WKE

SEPTEMBER 2026

PROJECT ID: 2722-04-71

WITH: N/A

COUNTY: WAUKESHA

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 = 870



010

N

DESIGN DESIGNATION

			CTH O	CTH D (WEST LEG)	CTH D (EAST LEG)	LINCOLN AVE	ROGERS DR/ WOODVIEW DR
A.A.D.T.	2026	=	35,700	15,600	16,400	6,500	6,600
A.A.D.T.	2046	=	43,600	19,000	20,100	7,900	8,000
D.H.V.		=	4,670	2,030	2,150	850	860
D.D.		=	59/41	59/41	59/41	59/41	59/41
T.		=	5.7%	5.1%	2.3%	10.4%	10.0%
DESIGN SPEED		=	45 MPH	40 MPH	40 MPH	40 MPH/30 MPH	40 MPH/30 MPH
ESALS			5,400,000	1,400,000	520,000	1,600,000	1,600,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C NEW BERLIN, MOORLAND ROAD

CTH D TO STH 59

CTH O

WAUKESHA COUNTY

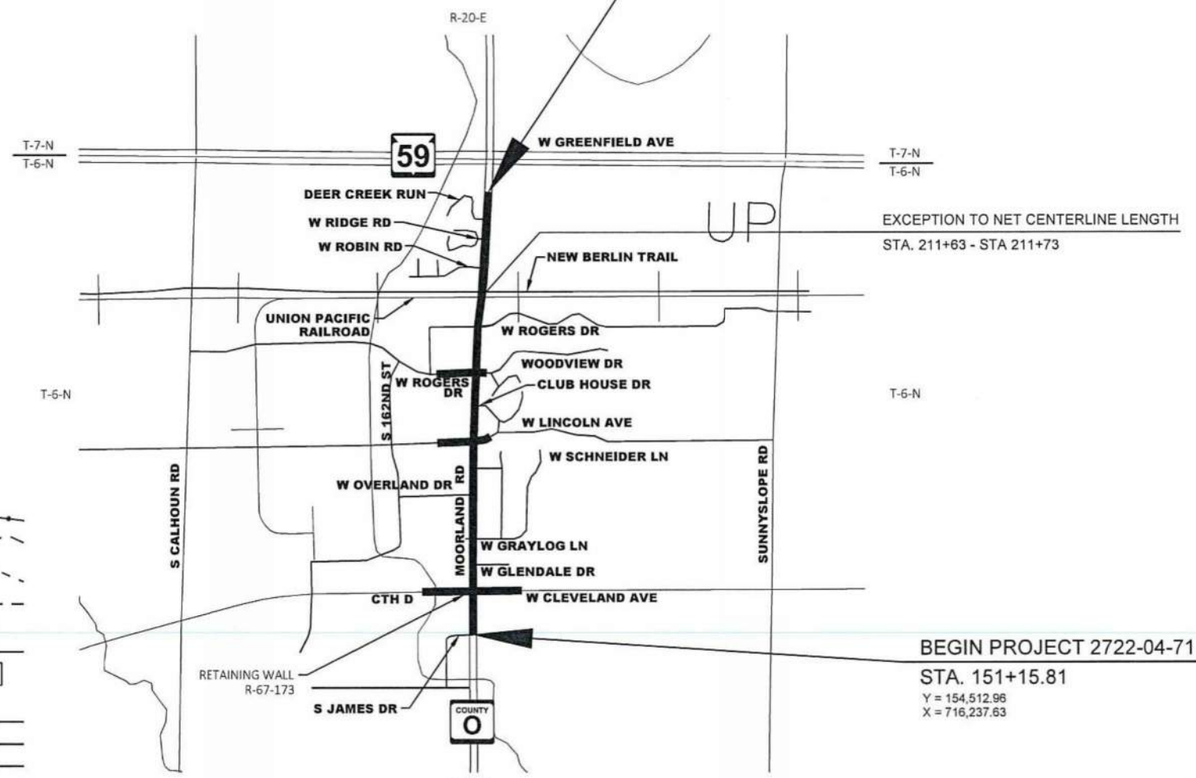
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2722-04-71	WISC 2026434	1

STATE PROJECT NUMBER

2722-04-71

END PROJECT 2722-04-71

STA. 230+62.42



LAYOUT

SCALE 0 0.5 MI

TOTAL NET LENGTH OF CENTERLINE = 1.503 MI

EXCEPTION TO NET CENTERLINE LENGTH

STA. 211+63 - STA 211+73

BEGIN PROJECT 2722-04-71

STA. 151+15.81

Y = 154,512.96

X = 716,237.63

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WAUKESHA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ACCEPTED FOR

COUNTY of WAUKESHA

4-28-26 (Date) DIRECTOR OF PUBLIC WORKS

4/28/26 (Date) ENGINEERING SERVICES MANAGER

ORIGINAL PLANS PREPARED BY

raSmith

CREATIVITY BEYOND ENGINEERING

rasmith.com

WISCONSIN RACHEL A. KETTERHAGEN E-36868 MILWAUKEE WI PROFESSIONAL ENGINEER

4/27/2026 (Date) Rachel Ketterhagen (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	raSmith
Designer	raSmith
Project Manager	JOE JELACIC, P.E.
Regional Examiner	
Regional Supervisor	AMY TAETSCH

APPROVED FOR THE DEPARTMENT

DATE: 4/30/2026 Joseph C Jelacic (Signature)

Digitally signed by Joseph C Jelacic
DN: CN=Joseph C Jelacic, E=joseph.jelacic@dot.wi.gov, O=WisDOT, OU=DTSD-LRM, C=US
Date: 2026.04.30 10:11:05-05'00'

E

2

GENERAL NOTES:

1. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
2. EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.
3. EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.
4. RE-TOPSOIL GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETE WITHIN THOSE AREAS. ALL DISTURBED/GRADED/SOIL STOCKPILE AREAS SHALL BE PERMANENTLY RESTORED WITHIN 14 CALENDAR DAYS OF ANY CONTRACTOR DISTURBANCE AND COMPLETED PRIOR TO SWITCHING STAGES. IF ANY DISTURBED/GRADED/SOIL STOCKPILE AREAS (INCLUDING ADJUSTED/REPLACEMENT STORM SEWER/CURB/DRIVEWAY AREA/APPROACHES) WILL NOT BE PERMANENTLY RESTORED WITHIN 14 DAYS, THEY SHALL RECEIVE TEMPORARY SEED AND MULCH WITHIN 4 CALENDAR DAYS OF THE INITIAL DISTURBANCE.
5. RESHAPE, RESTORE, AND FINISH ALL PREVIOUSLY GRASSED AREAS DISTURBED OUTSIDE THE NORMAL CONSTRUCTION LIMITS AT NO EXPENSE TO THE DEPARTMENT.
6. PLACE AND COMPACT TOPSOIL TO 1 INCH BELOW TOP OF ADJACENT CONCRETE CURBS IN SOD AREAS.
7. 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.
8. SEE SUBSURFACE EXPLORATION REPORTS FOR SOIL BORING INFORMATION. REPORTS ARE AVAILABLE FROM WAUKESHA COUNTY BY CONTACTING ED HINRICHS, WAUKESHA COUNTY PROJECT MANAGER, 262-548-7740.
9. CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL REQUIRED. TOPSOIL SHALL BE REPLACED WITH 6-INCH TYPICAL DEPTH.
10. WHEN THE QUANTITY OF ITEMS OF BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
11. STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE REVIEWED AND DETERMINED IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
12. ALL CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE LINE UNLESS OTHERWISE NOTED.
13. CURB AND GUTTER GRADES ARE TO THE FLANGE LINE UNLESS OTHERWISE NOTED.
14. PAVEMENT REMOVAL WILL BE TO THE NEAREST JOINT, OR AS DIRECTED BY THE ENGINEER. ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED.
15. VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PLACEMENT ELEVATIONS.
16. 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.
17. SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AT THE MATCHLINE INDICATED ON THE PLANS UNLESS OTHERWISE IDENTIFIED IN THE PLAN OR AS DIRECTED BY THE ENGINEER.
18. ALL OPENINGS OF HOLES BELOW SUBGRADE RESULTING FROM REMOVALS OR ABANDONMENTS SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 204 OF THE STANDARD SPECS. ALL BACKFILL MATERIAL IS INCIDENTAL TO THE REMOVAL ITEM.
19. 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.
20. CONTRACTOR MUST CONTACT THE ENGINEER AND SEWRPC AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.
21. PRIOR TO THE PLACEMENT OF MGS GUARDRAIL, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.

STANDARD ABBREVIATIONS

ADJ	ADJUST
BAD	BASE AGGREGATE DENSE
CFS	CUBIC FEET PER SECOND
FPS	FEET PER SECOND
HP	HIGH POINT
LC	LATERAL CLEARANCE
LP	LOW POINT
MAX	MAXIMUM
MEF	MAXIMUM EXTENT FEASIBLE
OH	OVERHEAD
OPT	OPTIONAL
PSF	POUNDS PER SQUARE FOOT

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVALS
PLAN DETAILS
PAVING GRADES
CURB RAMP DETAILS
BIOSWALE PLANS
EROSION CONTROL
STORM SEWER
SIGNING
TRAFFIC SIGNALS
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT

22. HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

ROADWAY	THICKNESS	LAYERS
W LINCOLN AVE*	7-INCH	2" UPPER LAYER 4 MT 58-28 H 2 1/2" MIDDLE LAYER 3 MT 58-28 S 2 1/2" LOWER LAYER 3 MT 58-28 S
CTH D (WEST LEG) W ROGERS DR* WOODVIEW DR	6 3/4-INCH	1 3/4" UPPER LAYER 4 MT 58-28 H 2 1/2" MIDDLE LAYER 3 MT 58-28 S 2 1/2" LOWER LAYER 3 MT 58-28 S
CTH D (EAST LEG)*	5 3/4-INCH	2 1/4" UPPER LAYER 4 MT 58-28 H 3 1/2" LOWER LAYER 3 MT 58-28 S
NEW BERLIN TRAIL & SIDEROAD PAVEMENT TRANSITIONS	4-INCH	1 3/4" UPPER LAYER 4 LT 58-28 S 2 1/4" LOWER LAYER 4 LT 58-28 S
CTH O OVERLAY	2 1/2-INCH	2 1/2" LAYER 4 MT 58-28 H

*MILL AND OVERLAY TO BE CONSTRUCTED WITH UPPER LAYER ONLY.

ALIGNMENT IDENTIFIERS

O	CTH O
D	CTH D
LI	W LINCOLN AVE
RW	W ROGERS DR (WEST)
NBT	NEW BERLIN TRAIL

2

PROJECT CONTACTS

WAUKESHA COUNTY PROJECT MANAGER
ED HINRICHS, P.E.
515 W MORELAND BLVD ROOM 220
WAUKESHA, WI 53188
(262) 548-7740
EHINRICHS@WAUKESHACOUNTY.GOV

WAUKESHA COUNTY ENGINEERING SERVICES MANAGER
BRETT WALLACE, P.E.
515 W MORELAND BLVD ROOM 220
WAUKESHA, WI 53188
(262) 548-7740
BWALLACE@WAUKESHACOUNTY.GOV

WAUKESHA COUNTY TRAFFIC SIGNALS
STEVE SCHULTZ
1641 WOODBURN RD
WAUKESHA, WI 53188
(262) 424-9129
SSCHULTZ@WAUKESHACOUNTY.GOV

WAUKESHA COUNTY PARKS AND LAND USE
JASON STEELE
515 W MORELAND BLVD AC 230
WAUKESHA, WI 53188
(262) 548-7808
JSTEELE@WAUKESHACOUNTY.GOV

SEWRPC
ROB MERRY
W239 N1812 ROCKWOOD DRIVE
PEWAUKEE, WI 53072
(262) 953-4289
RMERRY@SEWRPC.COM

CITY OF BROOKFIELD
ROAD FACILITY
DAN ERICKSON
2000 N CALHOUN RD
BROOKFIELD, WI 53005
(262) 787-3919
ERICKSOND@CI.BROOKFIELD.WI.US

CITY OF NEW BERLIN CITY ENGINEER
TAMARA SIMONSON, P.E.
3805 S CASPER DRIVE
NEW BERLIN, WI 53151
(262) 786-8610
TSIMONSON@NEWBERLIN.ORG

CITY OF NEW BERLIN FIRE DEPARTMENT
MARK POLZIN, FIRE CHIEF
16300 W NATIONAL AVENUE
NEW BERLIN, WI 53151
(262) 785-6120
MPOLZIN@NEWBERLIN.ORG

CITY OF NEW BERLIN POLICE DEPARTMENT
JEFF HINGISS, POLICE CHIEF
16300 W NATIONAL AVENUE
NEW BERLIN, WI 53151
(262) 780-8149
INFO@NBPOLICE.ORG

WISDOT PROJECT MANAGER
JOSEPH JELACIC
141 NW BARSTOW ST
WAUKESHA, WI 53188
(262) 548-6762
JOSEPH.JELACIC@DOT.WI.GOV

SEWRPC
ANDY TRAEGER
P.O. BOX 1607
WAUKESHA, WI 53187-1607
(262) 953-4296
ATRAEGER@SEWRPC.COM

WISDOT
WISCONSIN SIGNAL
JARRETT GATES
141 NW BARSTOW ST
WAUKESHA, WI 53188
(262) 548-5894
JARRETT.GATES@DOT.WI.GOV

DESIGN CONSULTANTS

raSmith
RACHEL KETTERHAGEN
16745 W BLUEMOUND RD SUITE 200
BROOKFIELD, WI 53005
(262) 317-3311
RACHEL.KETTERHAGEN@RASMITH.COM

WDNR LIAISON

DNR LIAISON
CRAIG WEBSTER
141 NW BARSTOW STREET
WAUKESHA, WI 53188
(262) 574-2141
CRAIG.WEBSTER@WISCONSIN.GOV

UTILITIES

ATC MANAGEMENT
ELECTRIC TRASMISSION
CHRIS DAILEY
P.O. BOX 47
WAUKESHA, WI 53187
(262) 506-6884
CDAILEY@ATCLLC.COM

CITY OF NEW BERLIN
WATER & SANITARY
ALEX PARKER
3805 S CASPER DRIVE
NEW BERLIN, WI 53151
(262) 786-7086
NBUTILITIES@NEWBERLIN.ORG

MCI
COMMUNICATIONS
RJ CICATELLO
15725 WEST RYERSON ROAD
NEW BERLIN, WI 53151
(262) 782-9836
RANDY.CICATELLO@VERIZON.COM

SPRINT
COMMUNICATIONS
KEVIN PERSON
849 EARL ST
ST PAUL, MN 55106
(612) 275-4131
KPERSON@COGENTCO.COM

WE ENERGIES
GAS
KELLY JAECK
S13 W33800 US-18
DELAFIELD, WI 53018
(262) 968-5721
KELLY.JAECK@WE-ENERGIES.COM

AT&T WISCONSIN
TELECOMMUNICATIONS
TYLER FLECK
220 WISCONSIN AVE
WAUKESHA, WI 53186
(414) 248-6803
TF8394@ATT.COM

CROWN CASTLE FIBER
COMMUNICATIONS
MARK MAYZURE
3025 HIGHLAND PARKWAY, 4TH FLOOR
DOWNERS GROVE, IL 60515
(630) 703-8413
MARK.MAYZURE@CROWNCASTLE.COM

MIDWEST FIBER NETWORK
COMMUNICATIONS
CORY SCHMUKI
6070 NORTH FLINT RD
GLENDALE, WI 53209
(414) 459-3561
CSCHMUKI@MIDWESTFIBERNETWORKS.COM

TDS TELECOM
COMMUNICATIONS
GLAN CAMPBELL
525 JUNCTION RD
MADISON, WI 53717
(608) 664-5143
GLEN.CAMPBELL@TDSTELECOM.COM

WIN TECHNOLOGY
COMMUNICATIONS
KEN WHITING
4955 BULLIS FARM RD
EAU CLAIRE, WI 54701
(866) 206-2027
KEN.WHITING@WINTECHNOLOGY.COM

BLUEBIRD FIBER
COMMUNICATIONS
ABBY STEIN
324 E WISCONSIN AVE SUITE 730
MILWAUKEE, WI 53202
(414) 409-9316
ASTEIN@EVERSTREAM.NET

LUMEN
COMMUNICATIONS
BRAHIM GADDOUR
3235 INTERTECH DR, SUITE 600
BROOKFIELD, WI 53045
(414) 908-1027
BRAHIM.GADDOUR@LUMEN.COM

SPECTRUM
COMMUNICATIONS
NICK BOVIN
1320 N MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
(262) 281-4273
NICHOLAS.BOVIN@CHARTER.COM

WE ENERGIES
ELECTRIC
YIA VUE
500 S 116TH ST
WEST ALLIS, WI 53214
(262) 809-9163
YIA.VUE@WE-ENERGIES.COM

WINDSTREAM
COMMUNICATIONS
LORI KETTER
969 WAUBE LANE
GREEN BAY, WI 54304
(920) 410-6902
LORI.KETTER@UNITI.COM

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

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	GENERAL NOTES	SHEET 3	E

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CITY OF NEW BERLIN

CITY OF BROOKFIELD

BEGIN PROJECT 2722-04-71
STA. 151+15.81
Y = 154,512.96
X = 716,237.63

END PROJECT 2722-04-71
STA. 230+62.42

S JAMES DR

CTH D

WETLAND BOUNDARY

RETAINING WALL R-67-173

350'D'

STOP CONTROL ON SIDE ROAD

150'O'

160'O'

MOORLAND RD (CTH O)

W OVERLAND DR

STOP CONTROL ON SIDE ROAD

170'O'

WETLAND BOUNDARY

W LINCOLN AVE

415'LI'

WETLAND BOUNDARY

420'LI'

180'O'

190'O'

W ROGERS DR (WEST)

445'RW'

WETLAND BOUNDARY

200'O'

MOORLAND RD (CTH O)

WETLAND BOUNDARY

UNION PACIFIC RAILROAD

NEW BERLIN TRAIL

210'O'

220'O'

230'O'

W ROBIN RD

W RIDGE RD

DEER CREEK RUN
(PRIVATE ROAD)

STH 59

240'O'

250'O'

MOORLAND RD (CTH O)

WETLAND BOUNDARY

STOP CONTROL ON SIDE ROAD

360'D'

CLEVELAND AVE

W GLENDALE DR

W GRAYLOG LN

W SCHNEIDER LN

425'LI'

CLUB HOUSE DR

STOP CONTROL ON SIDE ROAD

WETLAND BOUNDARY

455'W'

WOODVIEW DR

W ROGERS DR (EAST)

S BROOKSIDE PKWY

W GREENFIELD AVE

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\020201-PO.DWG
LAYOUT NAME - Plan 1 IN 500 FT

PLOT DATE : 4/27/2026 3:28 PM

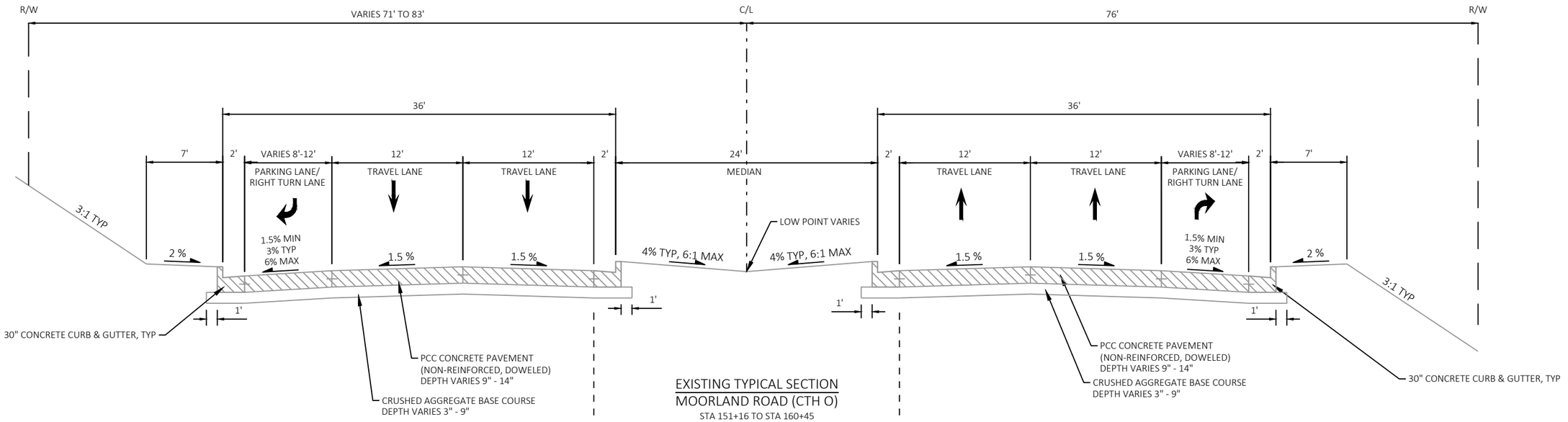
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:700 FT

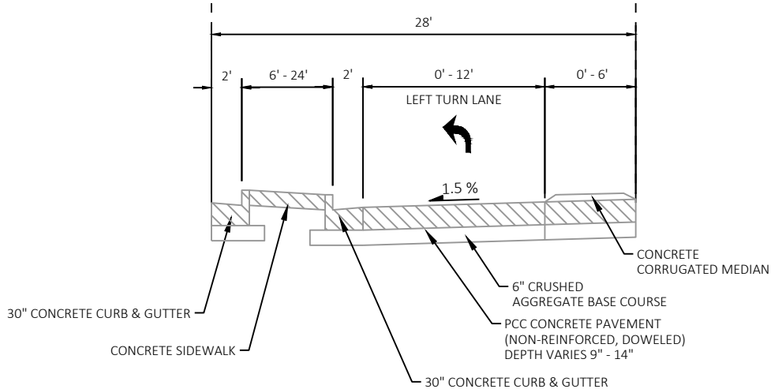
WISDOT/CADDS SHEET 42

2



EXISTING TYPICAL SECTION
MOORLAND ROAD (CTH O)
STA 151+16 TO STA 160+45

*SOUTHBOUND IS A MIRROR IMAGE

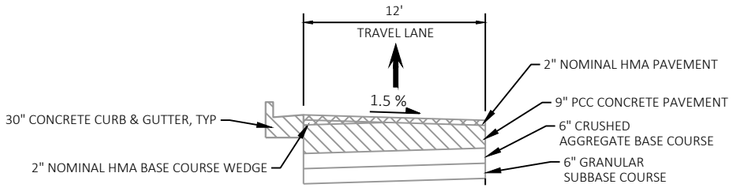


TYPICAL LEFT TURN LANE*

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 5	E

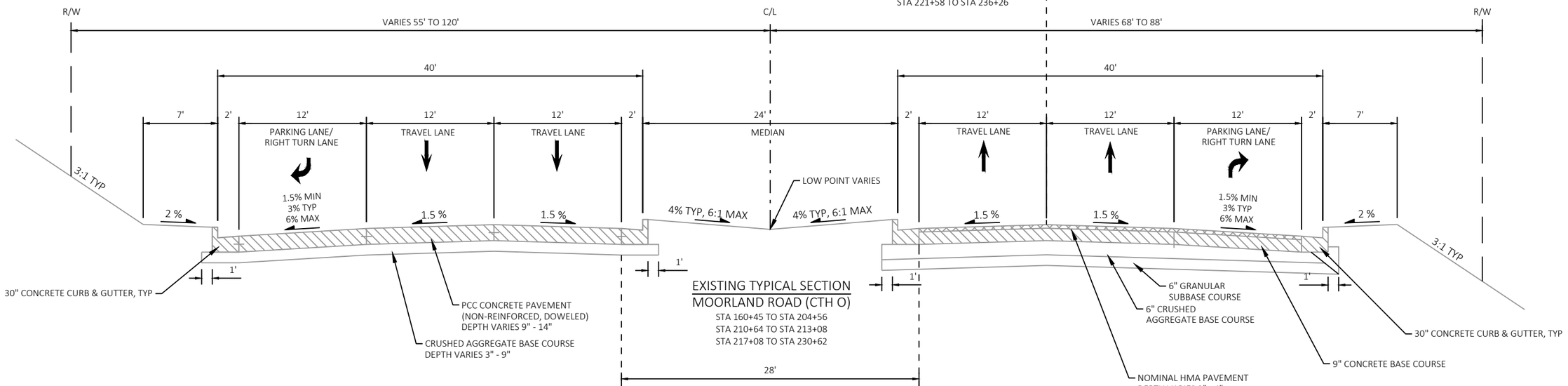
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LAYOUT NAME - 00-10ft

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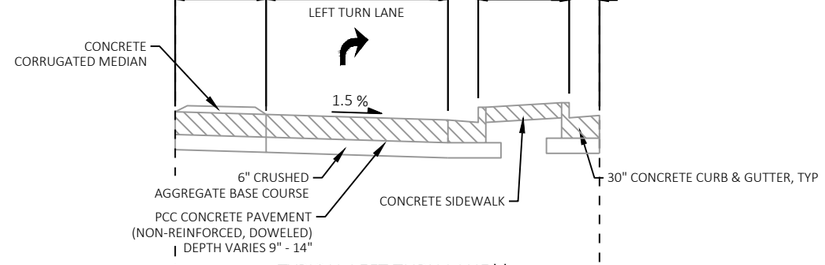
TYPICAL HMA WEDGE***

STA 183+58 TO STA 197+58
STA 221+58 TO STA 236+26



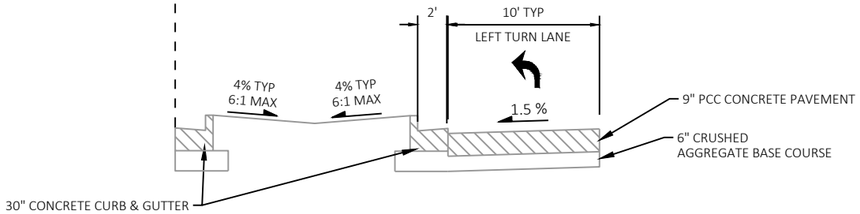
EXISTING TYPICAL SECTION
MOORLAND ROAD (CTH O)

STA 160+45 TO STA 204+56
STA 210+64 TO STA 213+08
STA 217+08 TO STA 230+62



TYPICAL LEFT TURN LANE**

STA 160+45 TO STA 167+02

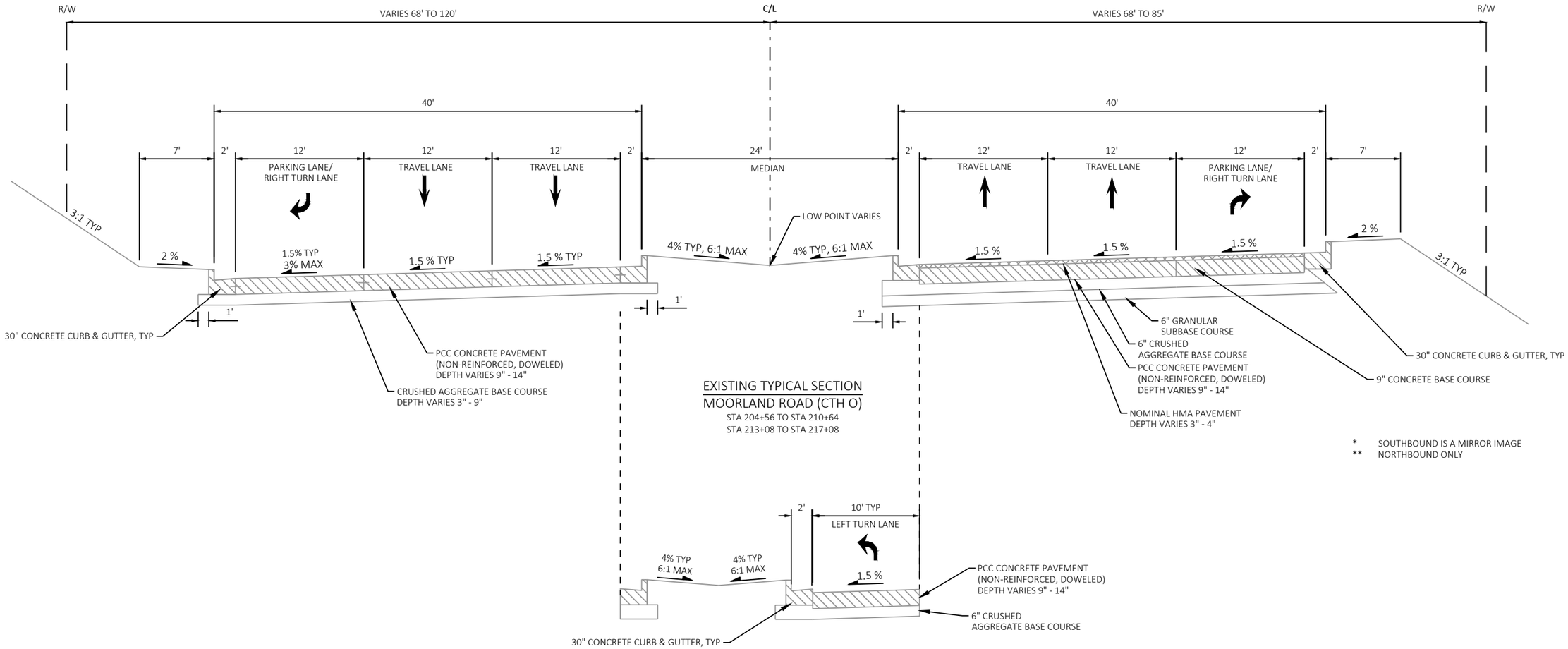


TYPICAL LEFT TURN LANE*

* SOUTHBOUND IS A MIRROR IMAGE
** NORTHBOUND IS A MIRROR IMAGE
*** NORTHBOUND ONLY

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 6	E

2



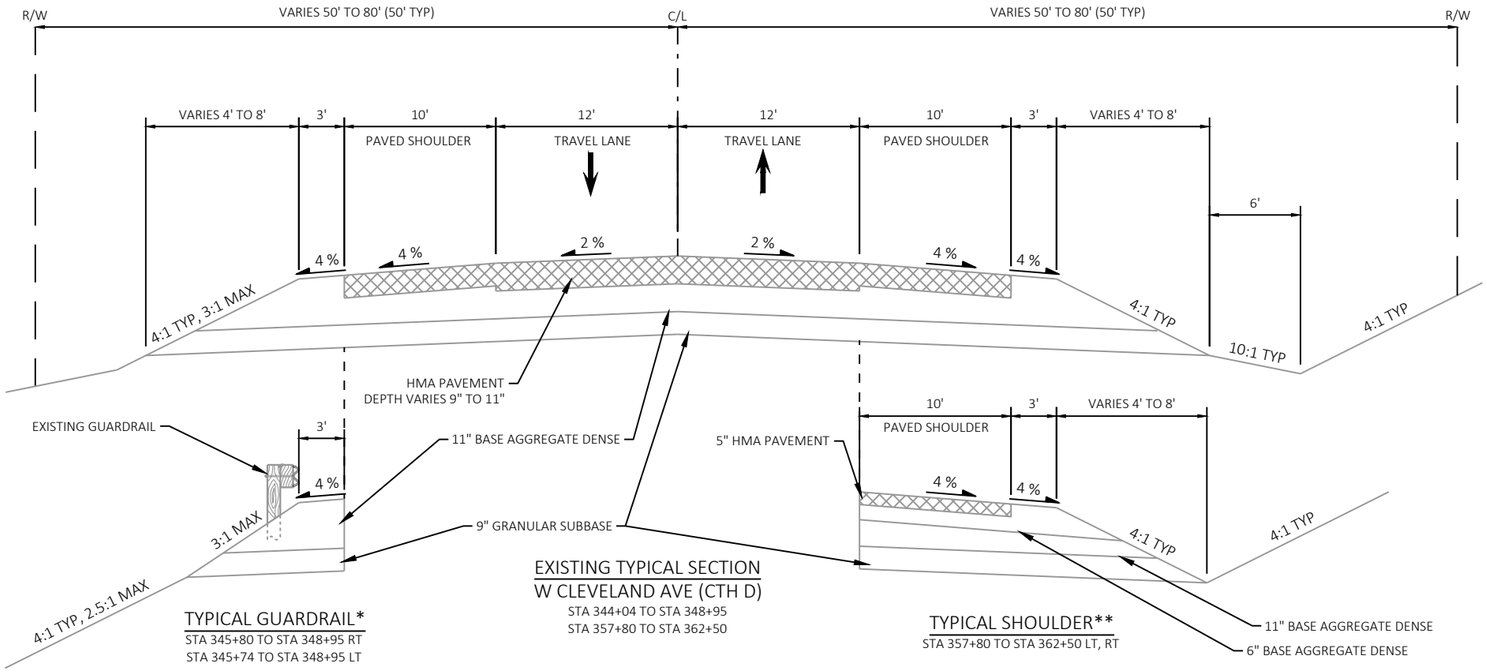
EXISTING TYPICAL SECTION
MOORLAND ROAD (CTH O)
STA 204+56 TO STA 210+64
STA 213+08 TO STA 217+08

* SOUTHBOUND IS A MIRROR IMAGE
** NORTHBOUND ONLY

TYPICAL LEFT TURN LANE*

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 7	E

2



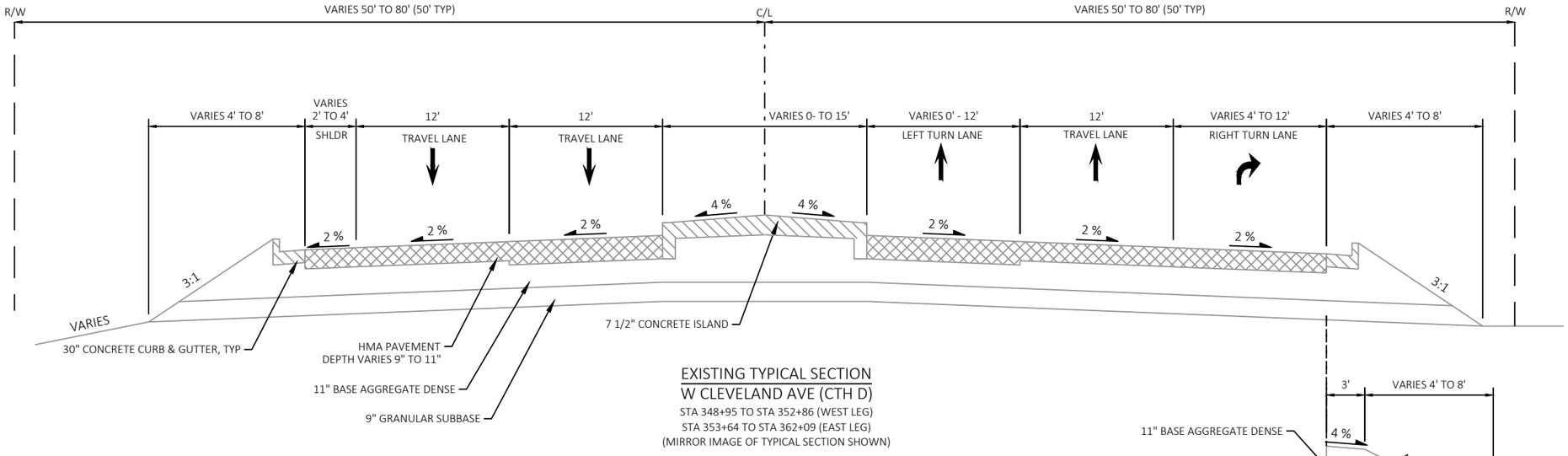
TYPICAL GUARDRAIL*
STA 345+80 TO STA 348+95 RT
STA 345+74 TO STA 348+95 LT

EXISTING TYPICAL SECTION
W CLEVELAND AVE (CTH D)
STA 344+04 TO STA 348+95
STA 357+80 TO STA 362+50

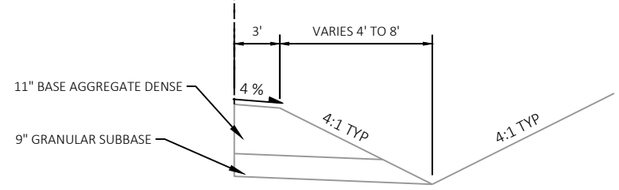
TYPICAL SHOULDER**
STA 357+80 TO STA 362+50 LT, RT

* EASTBOUND IS A MIRROR IMAGE
** WESTBOUND IS A MIRROR IMAGE

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 8	E

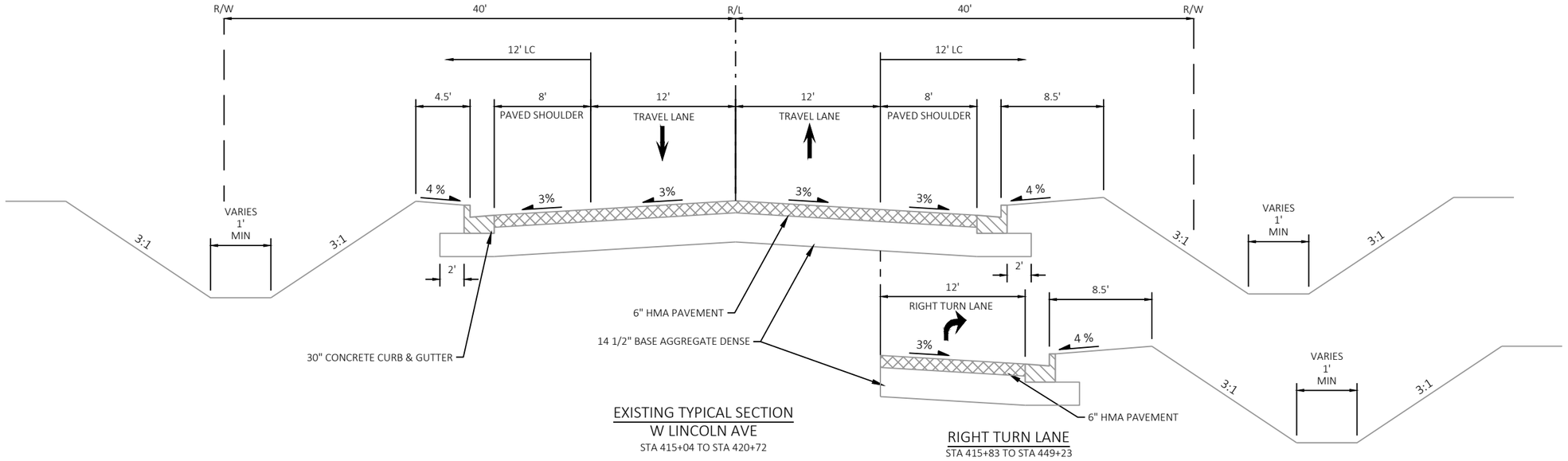


EXISTING TYPICAL SECTION
W CLEVELAND AVE (CTH D)
STA 348+95 TO STA 352+86 (WEST LEG)
STA 353+64 TO STA 362+09 (EAST LEG)
(MIRROR IMAGE OF TYPICAL SECTION SHOWN)



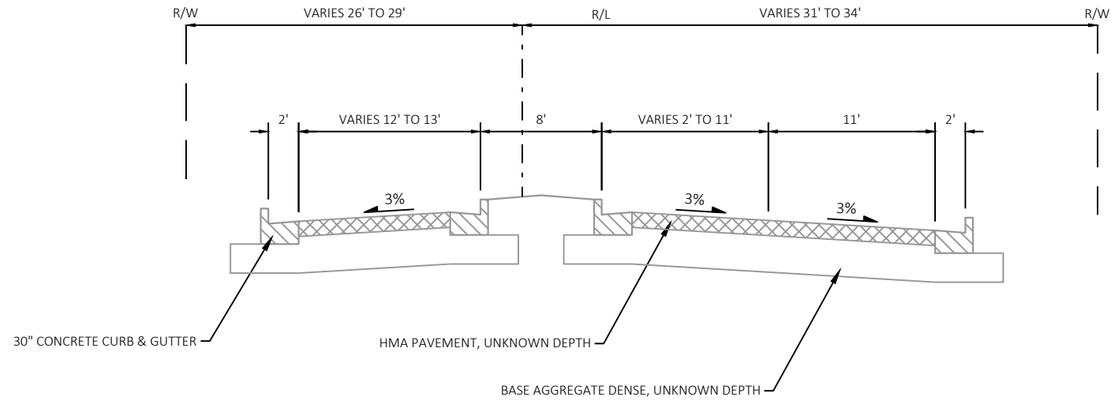
TYPICAL RURAL SHOULDER
STA 348+95 TO STA 352+86

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 9	E



EXISTING TYPICAL SECTION
W LINCOLN AVE
STA 415+04 TO STA 420+72

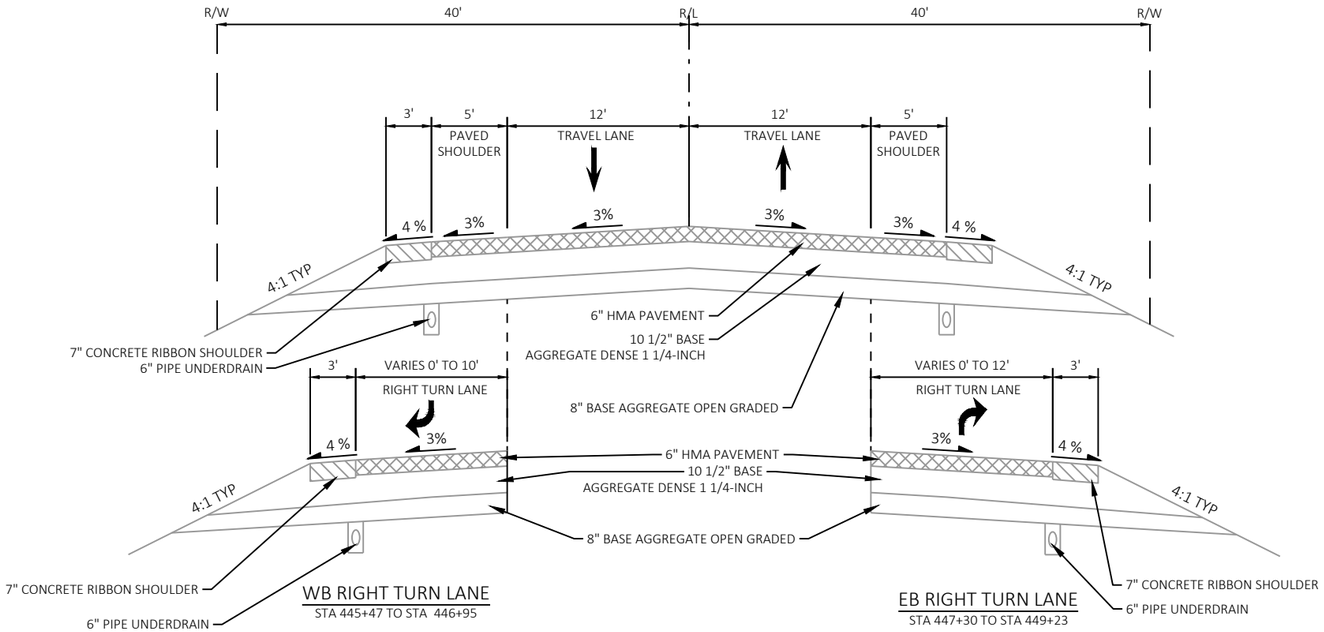
RIGHT TURN LANE
STA 415+83 TO STA 449+23



EXISTING TYPICAL SECTION
W LINCOLN AVE
STA 422+23 TO STA 425+00

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 10	E

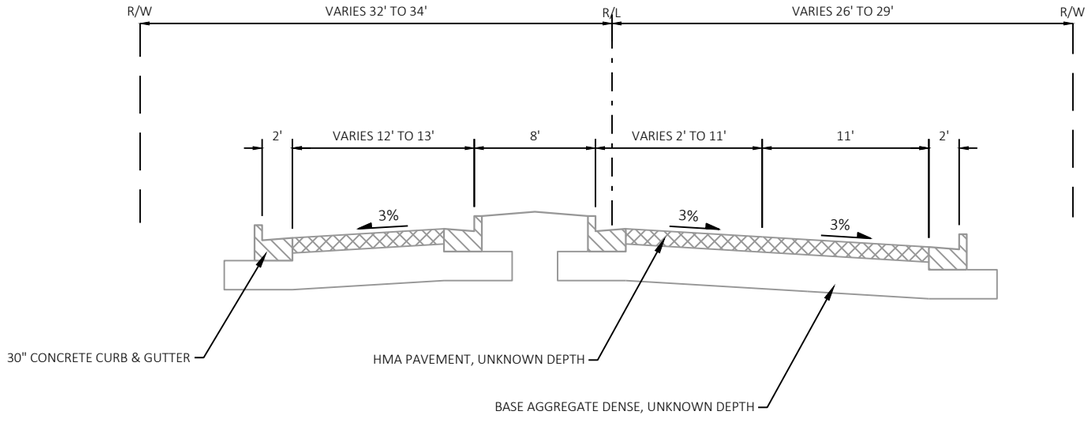
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\020301-TS.DWG
LAYOUT NAME - 05-10ft
PLOT DATE : 4/27/2026 8:49 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



WB RIGHT TURN LANE
STA 445+47 TO STA 446+95

EB RIGHT TURN LANE
STA 447+30 TO STA 449+23

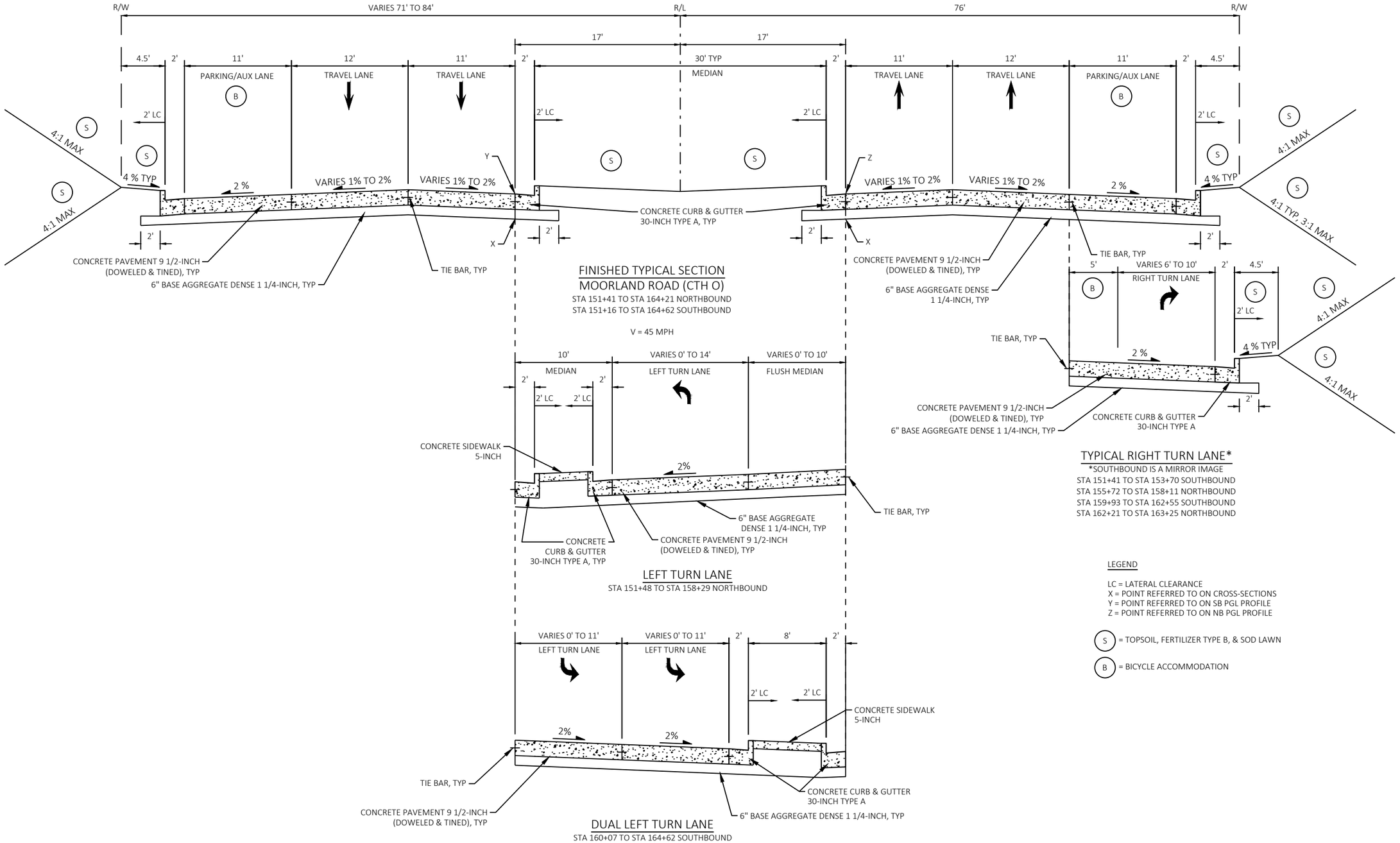
EXISTING TYPICAL SECTION
W ROGERS DR
STA 442+76 TO STA 449+16



EXISTING TYPICAL SECTION
WOODVIEW DR
STA 450+60 TO STA 451+83

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 11	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\020301-TS.DWG
LAYOUT NAME - 06-10ft
PLOT DATE : 4/27/2026 8:49 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



TYPICAL RIGHT TURN LANE*

*SOUTHBOUND IS A MIRROR IMAGE
STA 151+41 TO STA 153+70 SOUTHBOUND
STA 155+72 TO STA 158+11 NORTHBOUND
STA 159+93 TO STA 162+55 SOUTHBOUND
STA 162+21 TO STA 163+25 NORTHBOUND

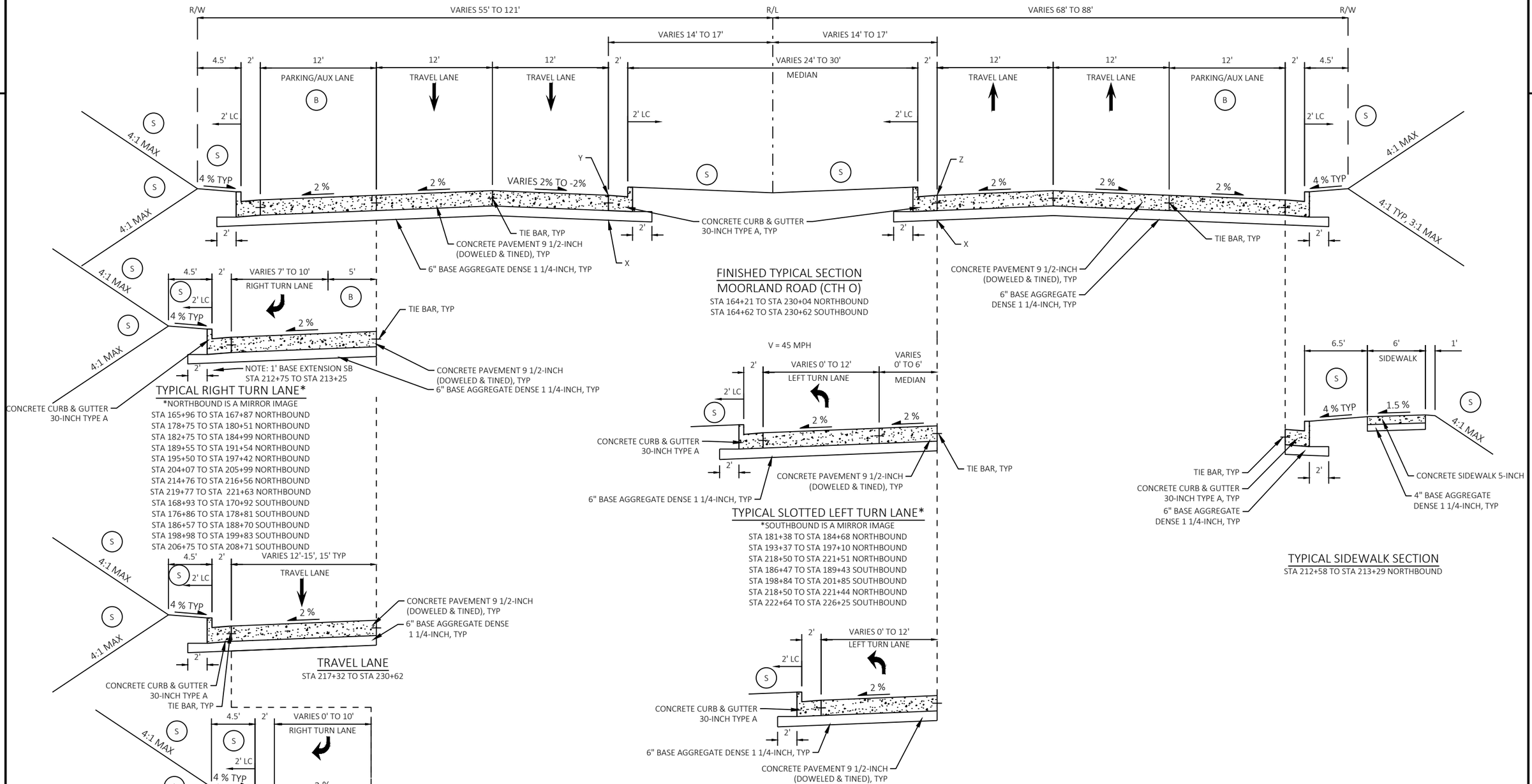
LEGEND

LC = LATERAL CLEARANCE
X = POINT REFERRED TO ON CROSS-SECTIONS
Y = POINT REFERRED TO ON SB PGL PROFILE
Z = POINT REFERRED TO ON NB PGL PROFILE

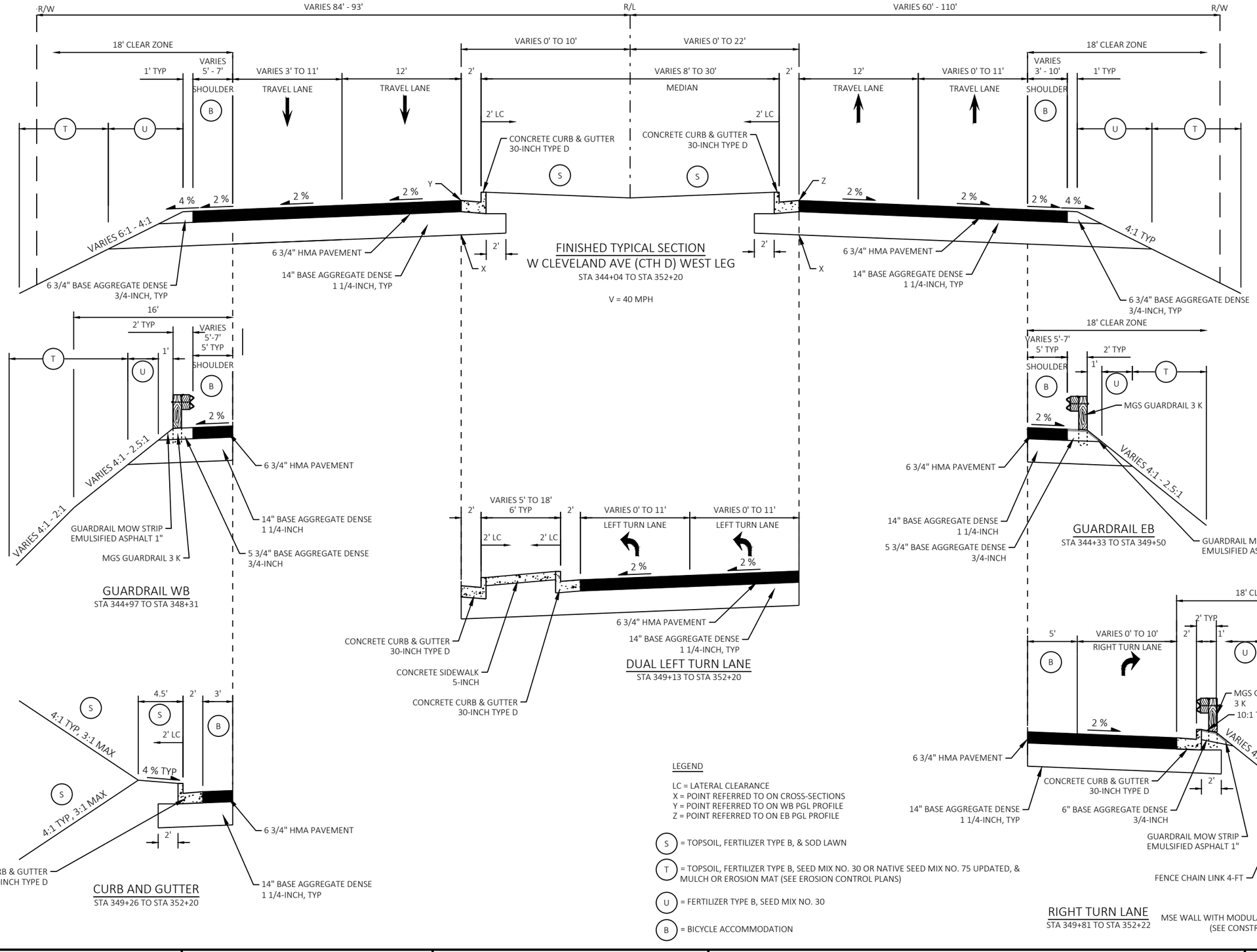
(S) = TOPSOIL, FERTILIZER TYPE B, & SOD LAWN

(B) = BICYCLE ACCOMMODATION

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 12	E



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 13	E



LEGEND

LC = LATERAL CLEARANCE
X = POINT REFERRED TO ON CROSS-SECTIONS
Y = POINT REFERRED TO ON WB PGL PROFILE
Z = POINT REFERRED TO ON EB PGL PROFILE

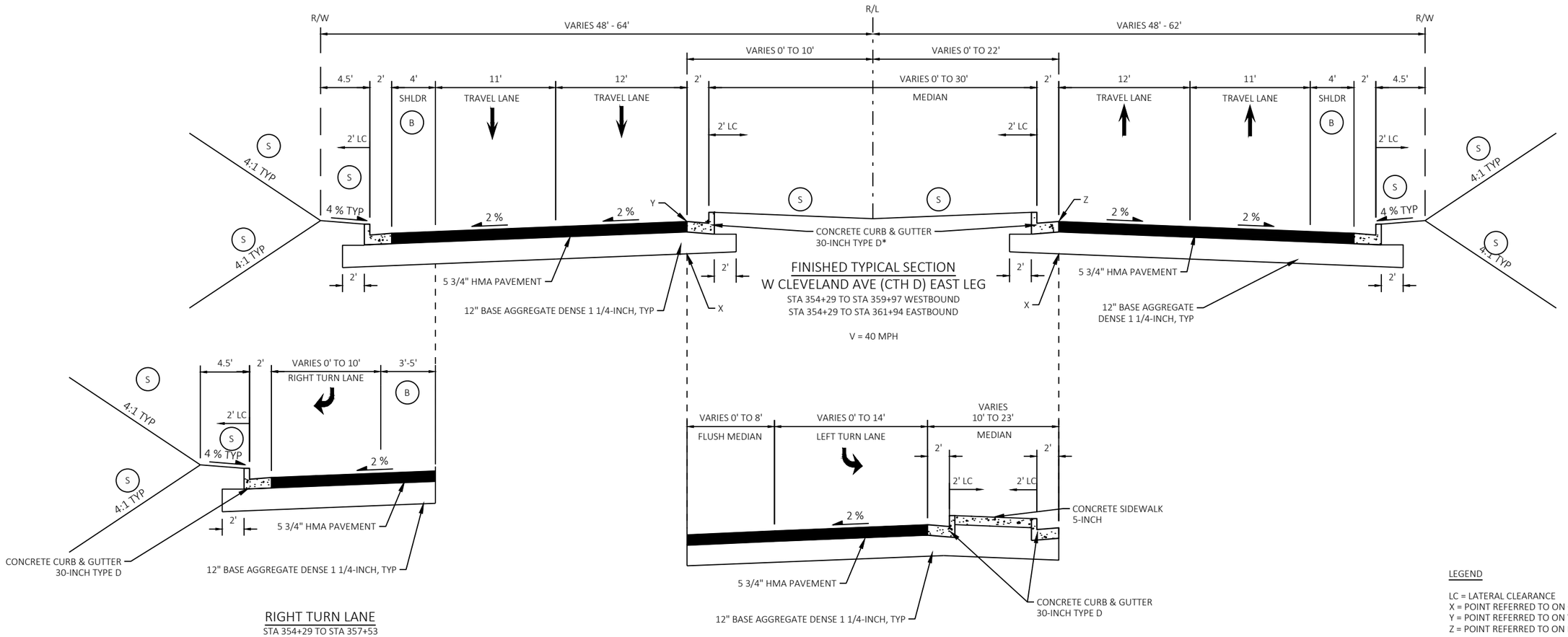
(S) = TOPSOIL, FERTILIZER TYPE B, & SOD LAWN

(T) = TOPSOIL, FERTILIZER TYPE B, SEED MIX NO. 30 OR NATIVE SEED MIX NO. 75 UPDATED, & MULCH OR EROSION MAT (SEE EROSION CONTROL PLANS)

(U) = FERTILIZER TYPE B, SEED MIX NO. 30

(B) = BICYCLE ACCOMMODATION

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 14	E



RIGHT TURN LANE
STA 354+29 TO STA 357+53

LEFT TURN LANE
STA 354+29 TO STA 357+24

LEGEND

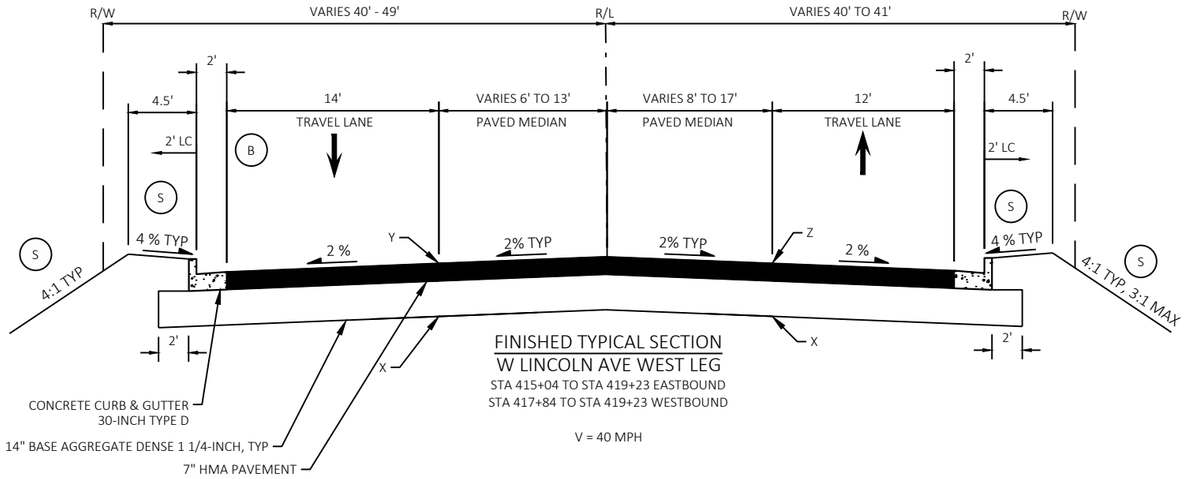
LC = LATERAL CLEARANCE
X = POINT REFERRED TO ON CROSS-SECTIONS
Y = POINT REFERRED TO ON WB PGL PROFILE
Z = POINT REFERRED TO ON EB PGL PROFILE

*NO CURB AND GUTTER FROM STA 358+85 TO STA 359+97 WESTBOUND
*NO CURB AND GUTTER FROM STA 358+85 TO STA 361+94 EASTBOUND

(S) = TOPSOIL, FERTILIZER TYPE B, & SOD LAWN

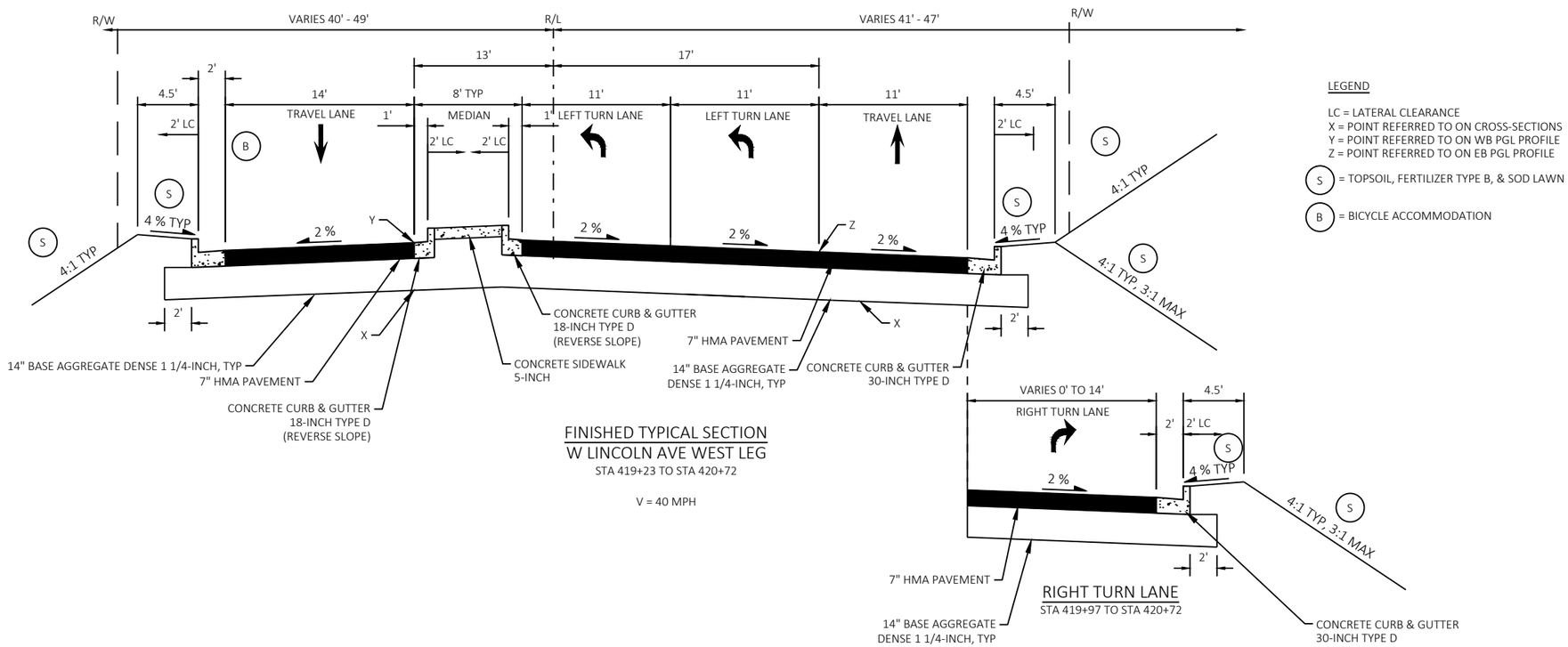
(B) = BICYCLE ACCOMMODATION

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 15	E



FINISHED TYPICAL SECTION
W LINCOLN AVE WEST LEG
STA 415+04 TO STA 419+23 EASTBOUND
STA 417+84 TO STA 419+23 WESTBOUND

V = 40 MPH



FINISHED TYPICAL SECTION
W LINCOLN AVE WEST LEG
STA 419+23 TO STA 420+72

V = 40 MPH

RIGHT TURN LANE
STA 419+97 TO STA 420+72

LEGEND

LC = LATERAL CLEARANCE
X = POINT REFERRED TO ON CROSS-SECTIONS
Y = POINT REFERRED TO ON WB PGL PROFILE
Z = POINT REFERRED TO ON EB PGL PROFILE

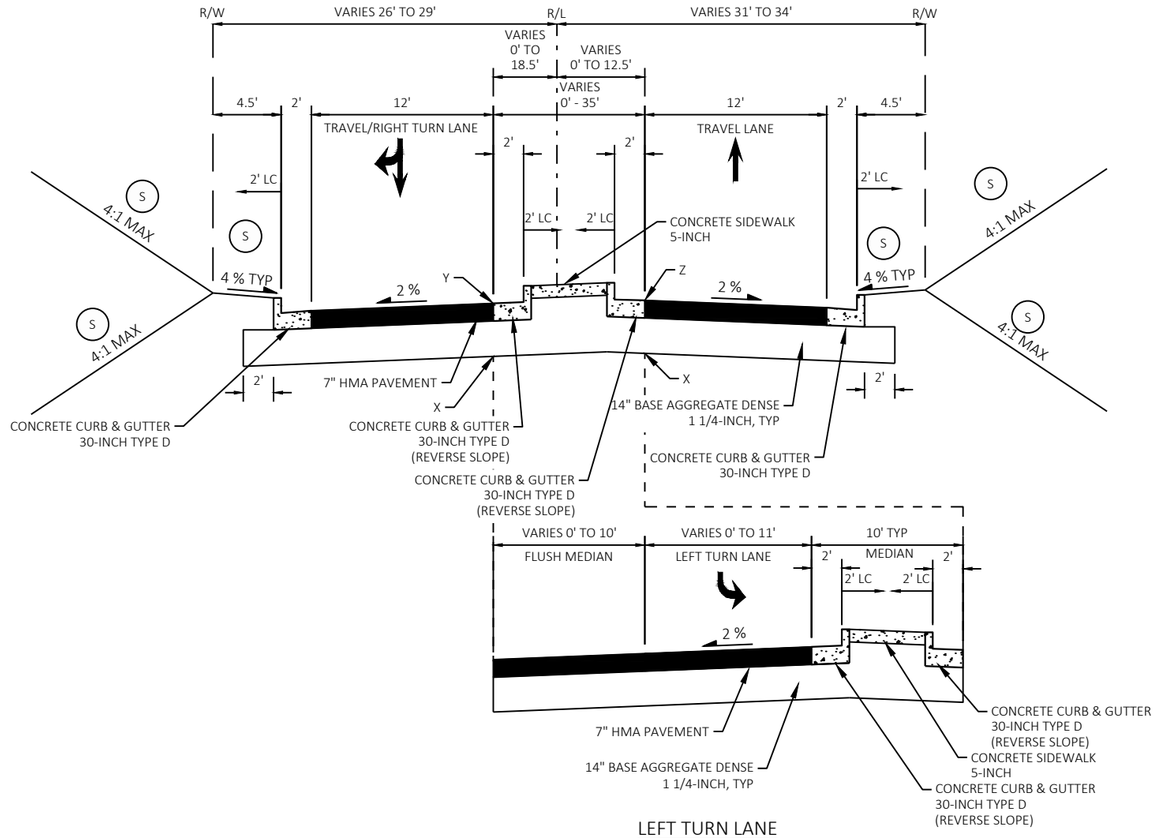
(S) = TOPSOIL, FERTILIZER TYPE B, & SOD LAWN

(B) = BICYCLE ACCOMMODATION

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 16	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\020301-TS.DWG
LAYOUT NAME - 12-10ft

PLOT DATE : 7/16/2026 2:21 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:10 FT



LEFT TURN LANE
STA 422+63 TO STA 424+12

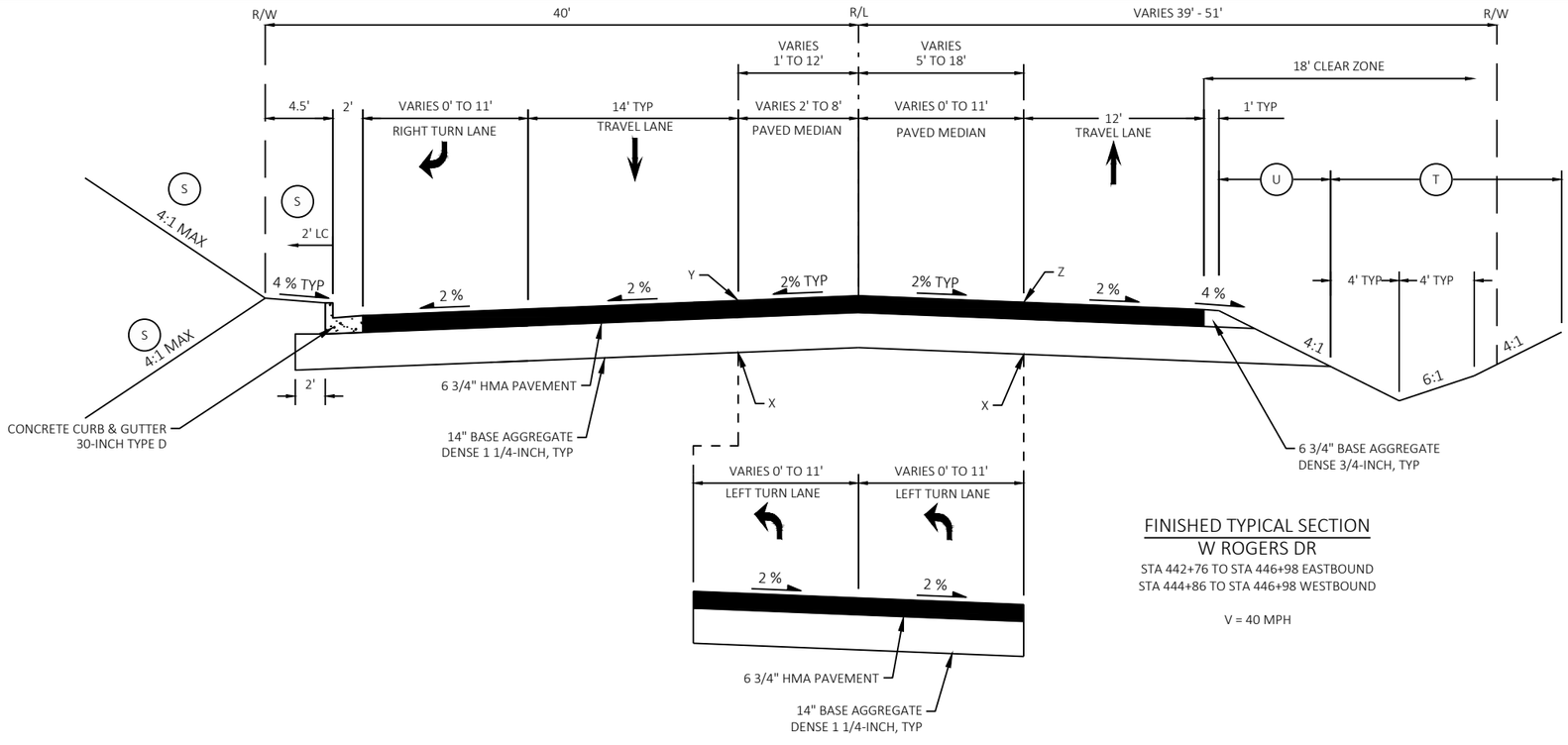
FINISHED TYPICAL SECTION
W LINCOLN AVE EAST LEG
STA 422+63 TO STA 423+32 EASTBOUND
STA 422+63 TO STA 425+00 WESTBOUND

V = 30 MPH

LEGEND

LC = LATERAL CLEARANCE
X = POINT REFERRED TO ON CROSS-SECTIONS
Y = POINT REFERRED TO ON WB PGL PROFILE
Z = POINT REFERRED TO ON EB PGL PROFILE
(S) = TOPSOIL, FERTILIZER TYPE B, & SOD LAWN

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 17	E



FINISHED TYPICAL SECTION
W ROGERS DR
STA 442+76 TO STA 446+98 EASTBOUND
STA 444+86 TO STA 446+98 WESTBOUND

V = 40 MPH

LEGEND

LC = LATERAL CLEARANCE
X = POINT REFERRED TO ON CROSS-SECTIONS
Y = POINT REFERRED TO ON WB PGL PROFILE
Z = POINT REFERRED TO ON EB PGL PROFILE

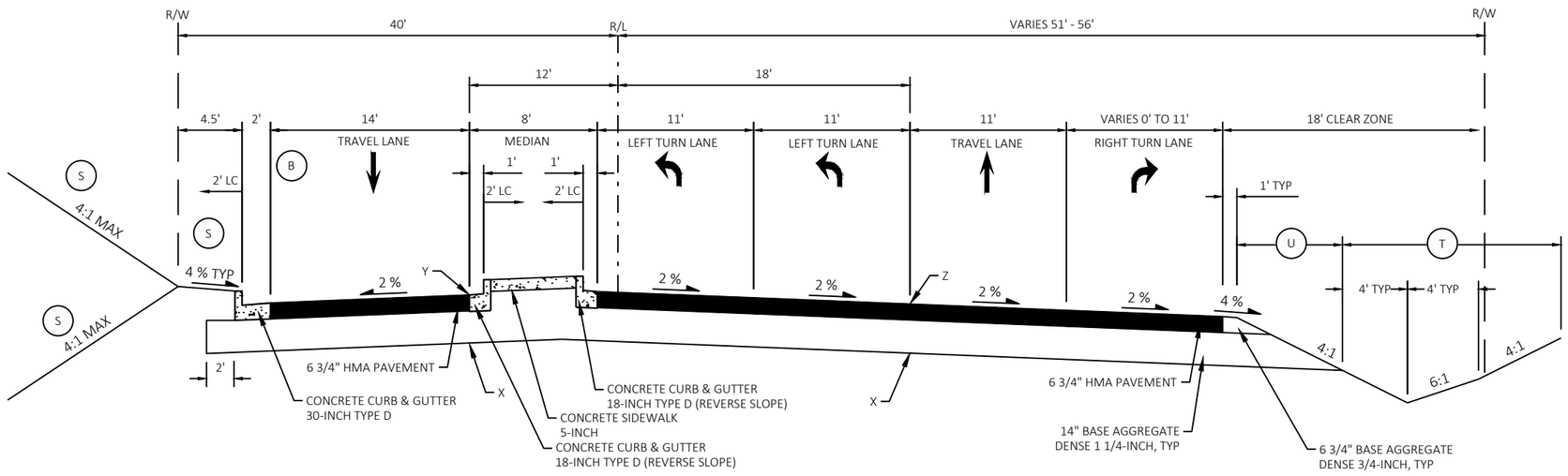
(S) = TOPSOIL, FERTILIZER TYPE B, & SOD LAWN

(T) = TOPSOIL, FERTILIZER TYPE B, SEED MIX NO. 30, & MULCH OR EROSION MAT (SEE EROSION CONTROL PLANS)

(U) = FERTILIZER TYPE B, SEED MIX NO. 30

(B) = BICYCLE ACCOMMODATION

DUAL LEFT TURN LANE
STA 444+83 TO STA 446+98

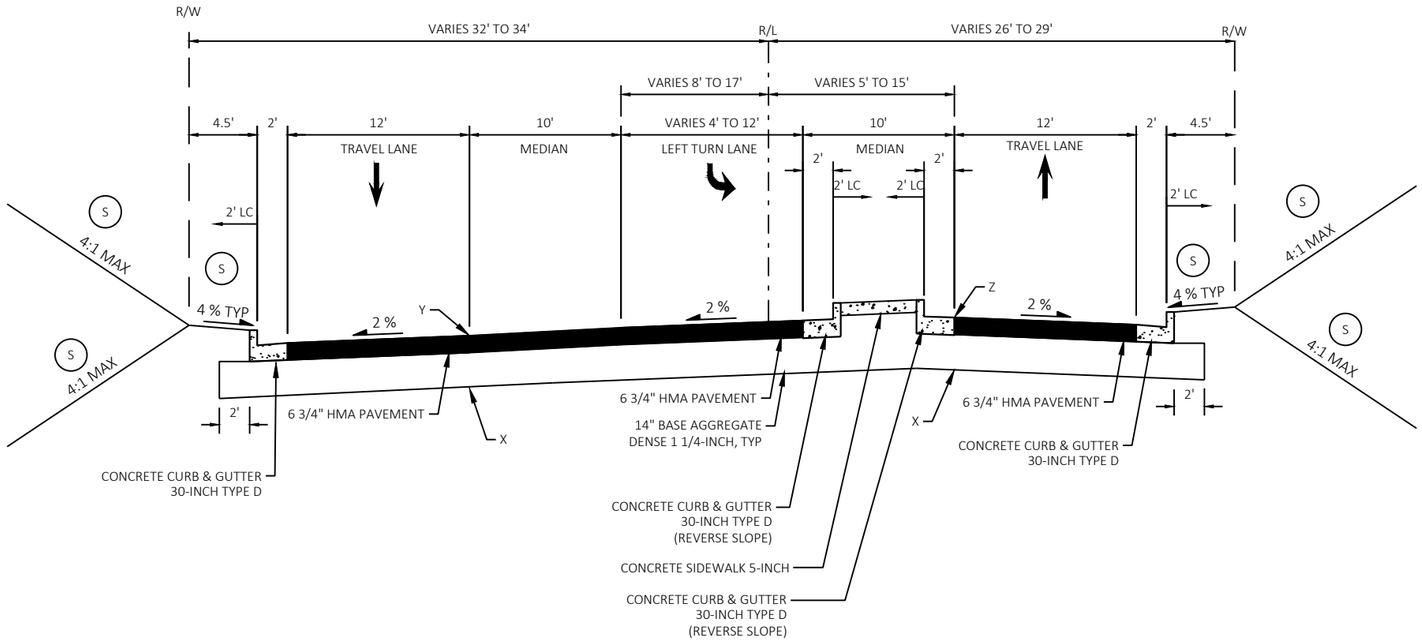


FINISHED TYPICAL SECTION
W ROGERS DR
STA 446+98 TO STA 449+03

V = 40 MPH

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 18	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\020301-TS.DWG
LAYOUT NAME - 14-10ft
PLOT DATE : 4/27/2026 8:49 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



FINISHED TYPICAL SECTION
WOODVIEW DR
STA 450+95 TO STA 451+83

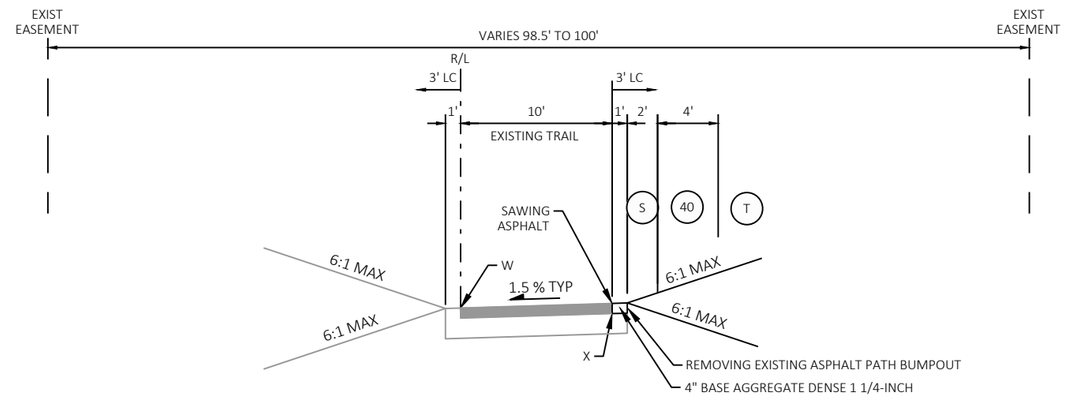
V = 30 MPH

LEGEND

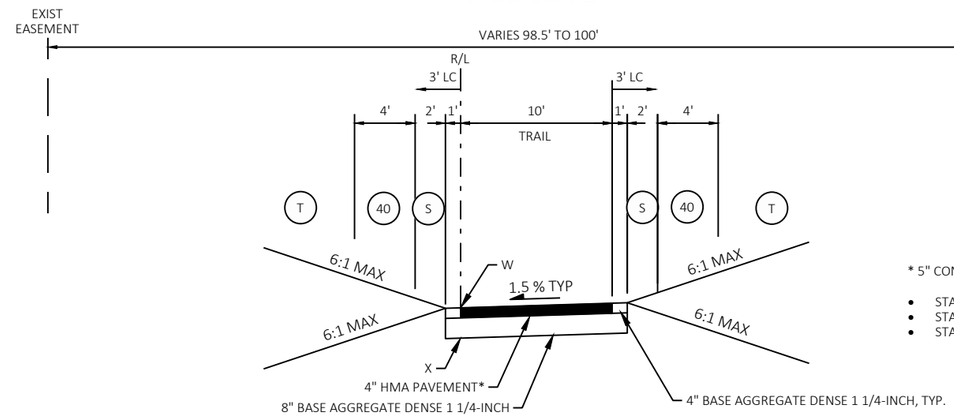
LC = LATERAL CLEARANCE
W = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS-SECTIONS
Y = POINT REFERRED TO ON WB PGL PROFILE
Z = POINT REFERRED TO ON EB PGL PROFILE

(S) = TOPSOIL, FERTILIZER TYPE B, & SOD LAWN

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 19	E



FINISHED TYPICAL SECTION
NEW BERLIN TRAIL
STA 0+50 TO STA 0+85



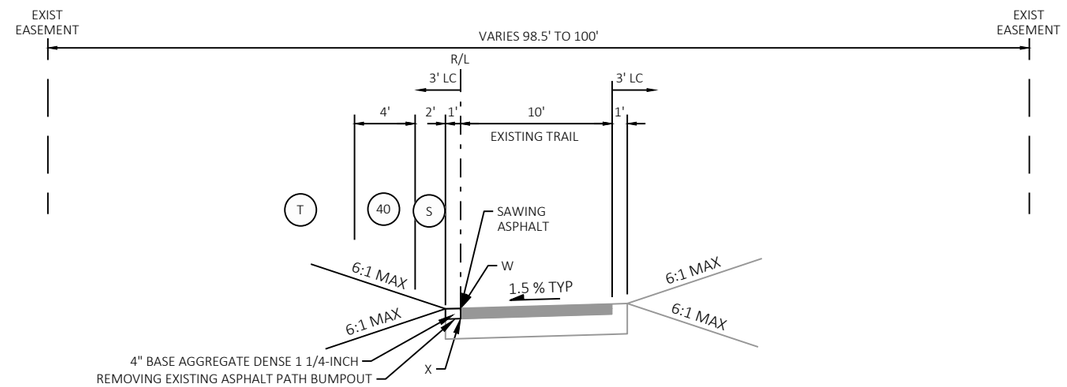
FINISHED TYPICAL SECTION
NEW BERLIN TRAIL
STA 0+85 TO STA 1+67
STA 2+08 TO STA 2+31
STA 2+72 TO STA 3+38

* 5" CONCRETE SIDEWALK AT THE FOLLOWING LOCATIONS:

- STA 1+57 TO STA 1+67
- STA 2+08 TO STA 2+31
- STA 2+72 TO STA 2+83

LEGEND

LC = LATERAL CLEARANCE
W = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS-SECTIONS



FINISHED TYPICAL SECTION
NEW BERLIN TRAIL
STA 3+38 TO STA 3+68

(S) = TOPSOIL, FERTILIZER TYPE B, & SOD LAWN

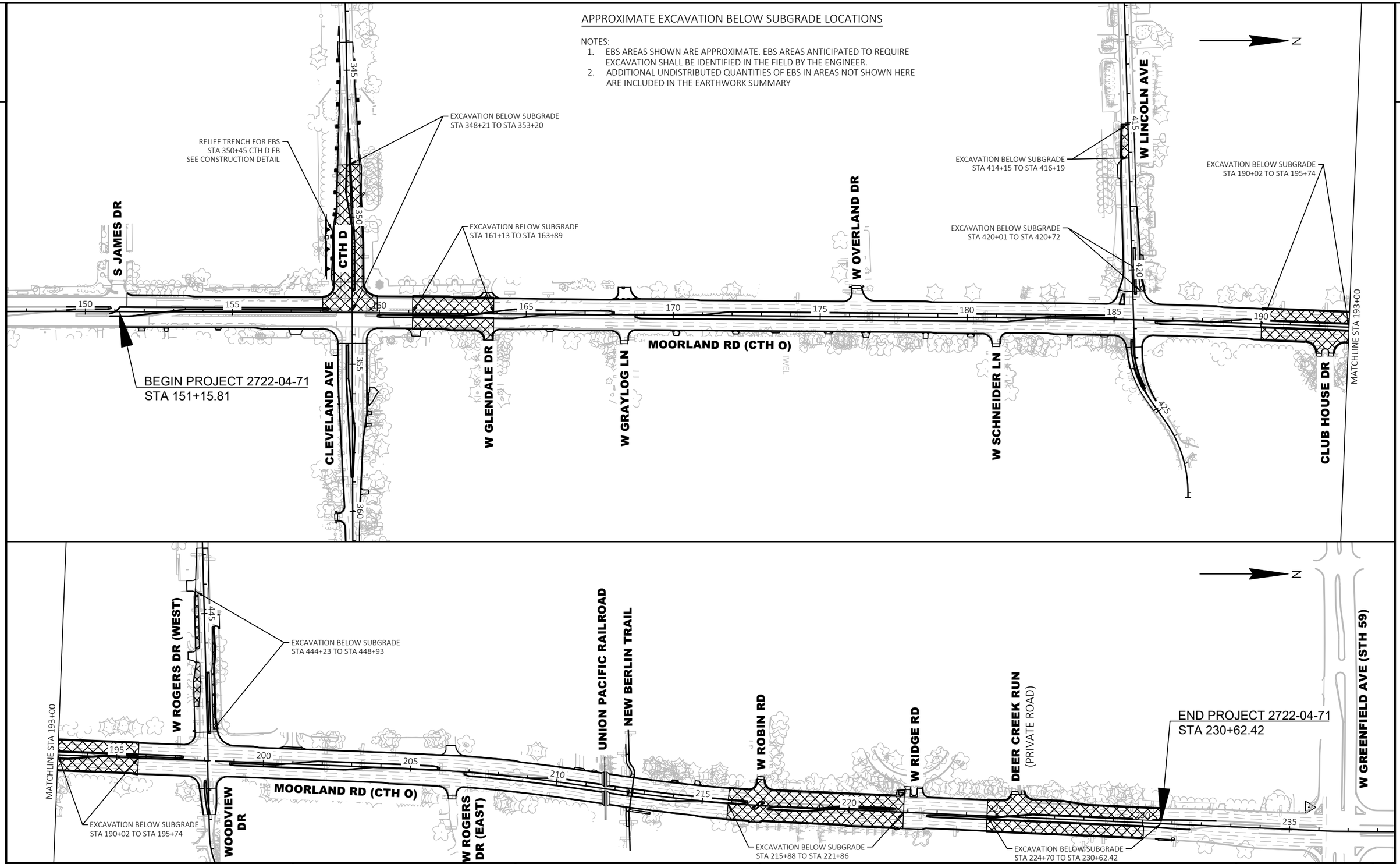
(T) = TOPSOIL, FERTILIZER TYPE B, NATIVE SEED MIX NO. 75 UPDATED, & EROSION MAT (SEE EROSION CONTROL PLANS)

(40) = FERTILIZER TYPE B, SEED MIX NO. 40 & EROSION MAT (SEE EROSION CONTROL PLANS)

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 20	E

APPROXIMATE EXCAVATION BELOW SUBGRADE LOCATIONS

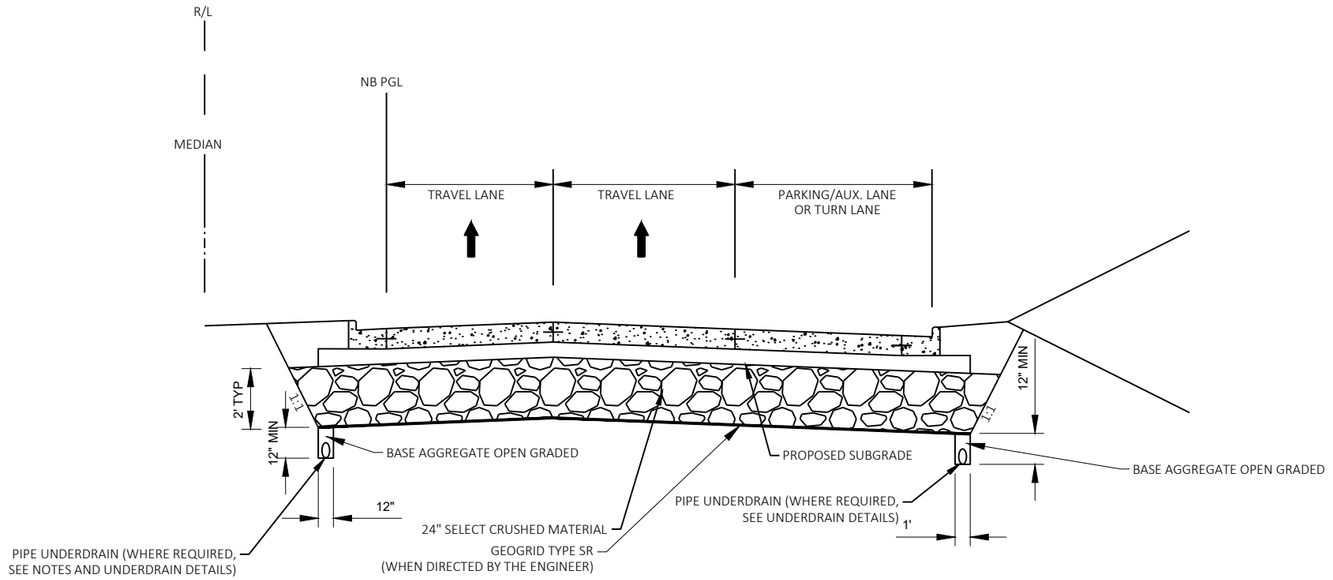
NOTES:
1. EBS AREAS SHOWN ARE APPROXIMATE. EBS AREAS ANTICIPATED TO REQUIRE EXCAVATION SHALL BE IDENTIFIED IN THE FIELD BY THE ENGINEER.
2. ADDITIONAL UNDISTRIBUTED QUANTITIES OF EBS IN AREAS NOT SHOWN HERE ARE INCLUDED IN THE EARTHWORK SUMMARY



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CONSTRUCTION DETAILS	SHEET 21	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021003-CD.DWG
LAYOUT NAME - Plan 1 IN 200 FT
PLOT DATE : 4/27/2026 9:04 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:300 FT
WISDOT/CADDS SHEET 42

2



EXCAVATION BELOW SUBGRADE DETAIL - CURB & GUTTER REPLACEMENT

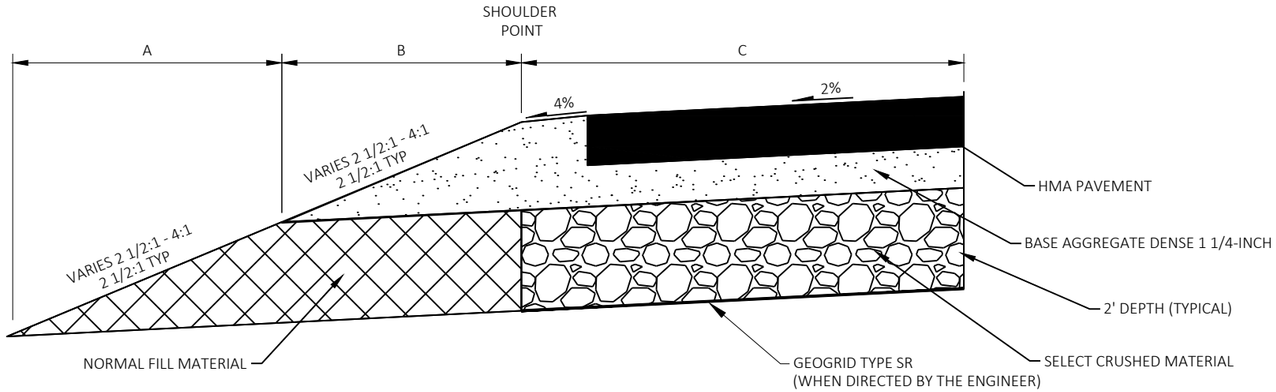
HALF SECTION SHOWN - SB SIDE IS A MIRROR IMAGE

(ALL LOCATIONS TO BE DETERMINED BY THE ENGINEER)

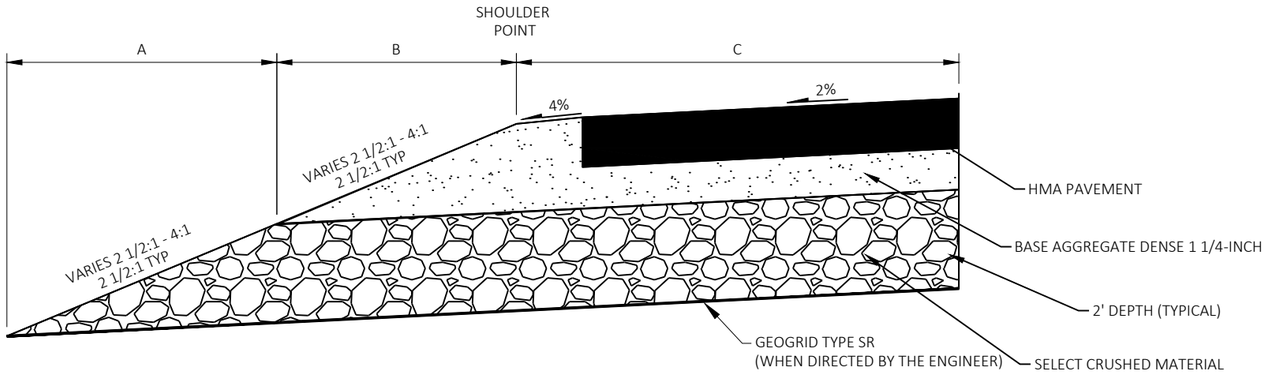
NOTES:

1. USE AS DIRECTED BY THE ENGINEER FOR AREAS OF UNSTABLE SUBGRADE.
2. NO EBS WILL BE ALLOWED WITHOUT A FAILED PROOF ROLL OR AS DIRECTED BY THE ENGINEER. PROOF ROLLING IS INCIDENTAL TO EXCAVATION/EMBANKMENT.
3. EBS SHALL BE PAID FOR AS COMMON EXCAVATION.
4. GEOTEXTILE TYPE SR SHALL BE USED AT THE DISCRETION OF THE ENGINEER WHEN THE EBS DEPTH EXCEEDS 24 INCHES TO LIMIT THE DEPTH OF THE REQUIRED EBS. GEOTEXTILE TYPE SR PLACED WITHOUT THE AUTHORIZATION OF THE ENGINEER SHALL NOT BE PAID FOR.
5. PROVIDE 20 FEET OF PIPE UNDERDRAIN UPSTREAM OF EACH INLET IN EBS AREAS. SEE UNDERDRAIN PLACEMENT AT INLET CONSTRUCTION DETAIL. AT LOW POINTS IN EBS AREAS UNDERDRAIN SHALL EXTEND PARALLEL TO THE CURB AND GUTTER IN BOTH DIRECTIONS FROM THE INLET.

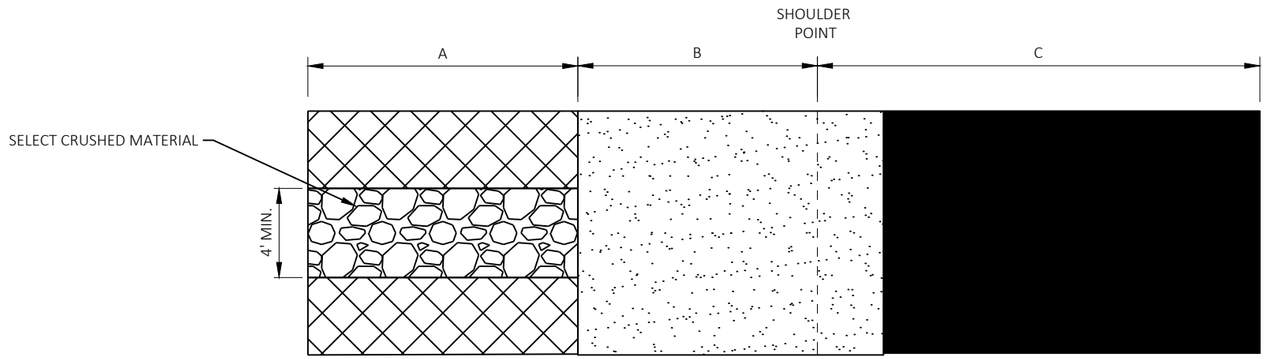
1. EXCAVATION REQUIRED FOR EBS SHALL BE PAID AS EXCAVATION COMMON.
2. FILL EBS VOID WITH SELECT CRUSHED MATERIAL. ADD GEOGRID TYPE SR AS SHOWN IN THE DETAIL WHEN DIRECTED BY THE ENGINEER.
3. CONSTRUCT RELIEF TRENCHES AT LEAST EVERY 250' AND AT THE LOW POINT WITHIN EACH SAG VERTICAL CURVE IN THE PROFILE.



TYPICAL HALF SECTION WITHOUT RELIEF TRENCH



TYPICAL HALF SECTION WITH RELIEF TRENCH



RELIEF TRENCH PLAN VIEW

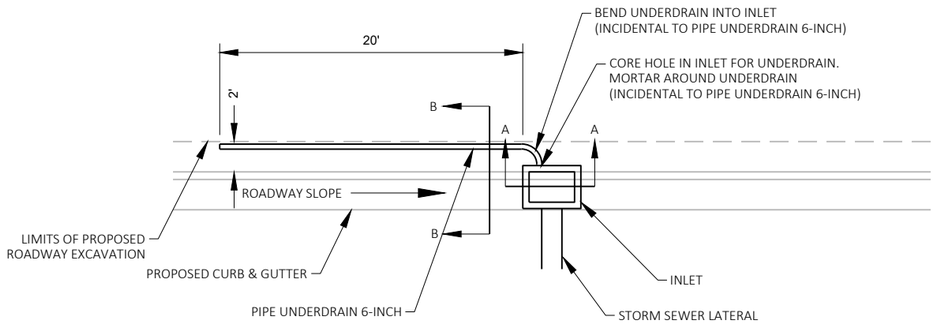
RELIEF TRENCH FOR EXCAVATION BELOW SUBGRADE (EBS)

STA 347+00 CTH D EASTBOUND

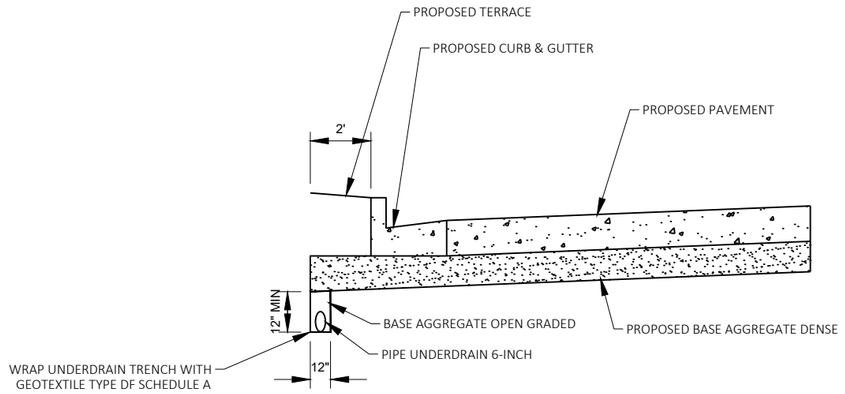
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CONSTRUCTION DETAILS	SHEET 23	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021001-CD.DWG
LAYOUT NAME - 08
PLOT DATE : 4/27/2026 9:04 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

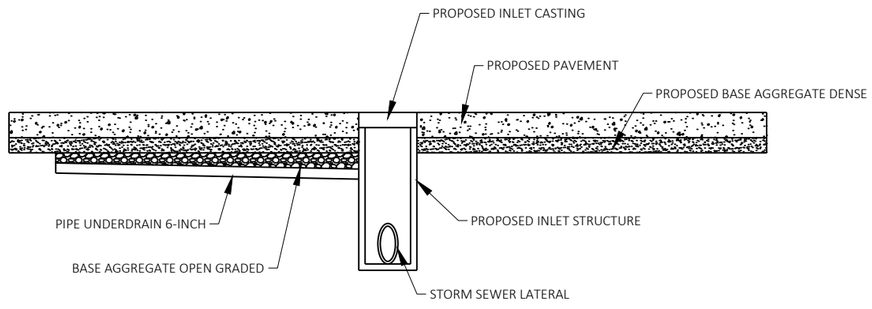
2



PLAN VIEW



SECTION VIEW
SECTION B-B



PROFILE VIEW
SECTION A-A

NOTES:

1. PROVIDE 20 FEET OF PIPE UNDERDRAIN UPSTREAM OF EACH INLET. AT LOW POINTS UNDERDRAIN SHALL EXTEND PARALLEL TO THE CURB AND GUTTER IN BOTH DIRECTIONS FROM THE INLET.
2. WRAP THE UNDERDRAIN TRENCH WITH GEOTEXTILE TYPE DF SCHEDULE A. OVERLAP THE FABRIC BY 8" AT THE TOP OF THE TRENCH. TOTAL FABRIC WIDTH IS 4'-9" FOR PAYMENT.
3. SLOPE THE UNDERDRAIN PIPE AT 0.5% MINIMUM , 1.0% DESIRABLE.
4. CONNECT THE UNDERDRAIN TO THE INLET BY CORING A HOLE IN THE INLET STRUCTURE. MORTAR THE UNDERDRAIN TO THE INLET STRUCTURE. CORING A HOLE IN THE INLET STRUCTURE AND MORTARING THE UNDERDRAIN INTO THE INLET IS INCIDENTAL TO PIPE UNDERDRAIN 6-INCH.
5. THE BOTTOM OF THE PIPE UNDERDRAIN SHALL ENTER THE INLET STRUCTURE HIGHER THAN THE CROWN OF ANY STORM SEWER PIPES IN THE INLET STRUCTURE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

UNDERDRAIN PLACEMENT AT INLETS

NOTES:

① DRIVEWAY WIDTHS:
COMMERCIAL 40' MAX 12' MIN
RESIDENTIAL 30' MAX 12' MIN

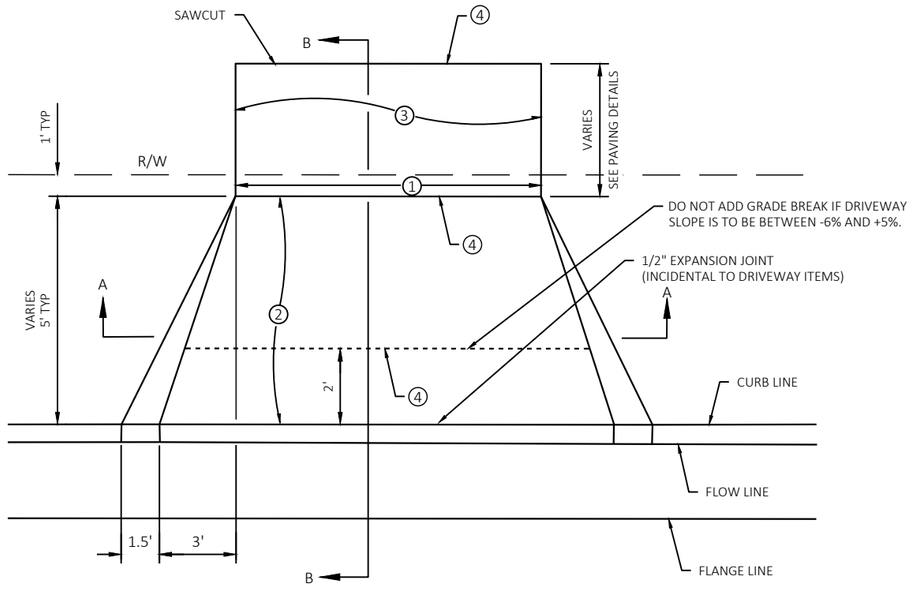
② ALL DRIVEWAY APPROACHES SHALL BE:

3" ASPHALTIC SURFACE DRIVEWAYS OVER 4" BASE AGGREGATE DENSE 1 1/4-INCH
OR
CONCRETE DRIVEWAY 7-INCH OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH.

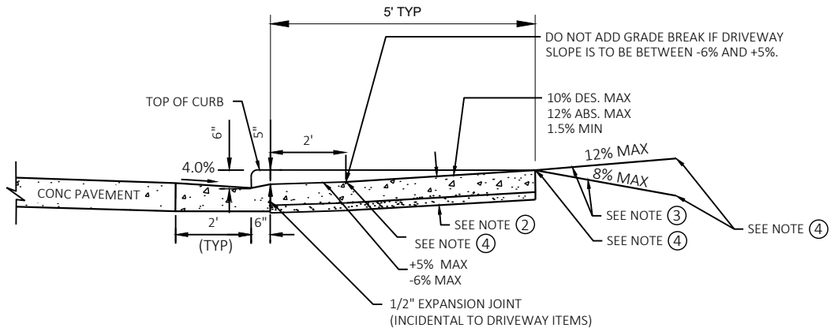
③ WHERE REQUIRED, DRIVEWAY SURFACE BEYOND DRIVEWAY APPROACH SHALL BE REPLACED IN-KIND WITH A MATCH OF THE EXISTING DEPTH OR A MINIMUM SECTION OF:

3" ASPHALTIC SURFACE DRIVEWAYS OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH
OR
CONCRETE DRIVEWAY 7-INCH OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH.
OR
6" BASE AGGREGATE DENSE 3/4-INCH.

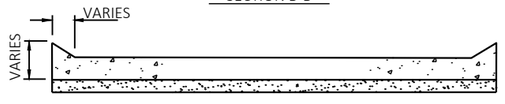
④ DO NOT EXCEED THE MAXIMUM ROLLOVER / BREAK-OVER OF 9% FOR SAG POINTS AND 10% FOR CREST POINTS.



PLAN VIEW

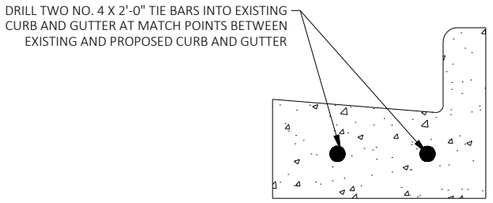


SECTION B-B



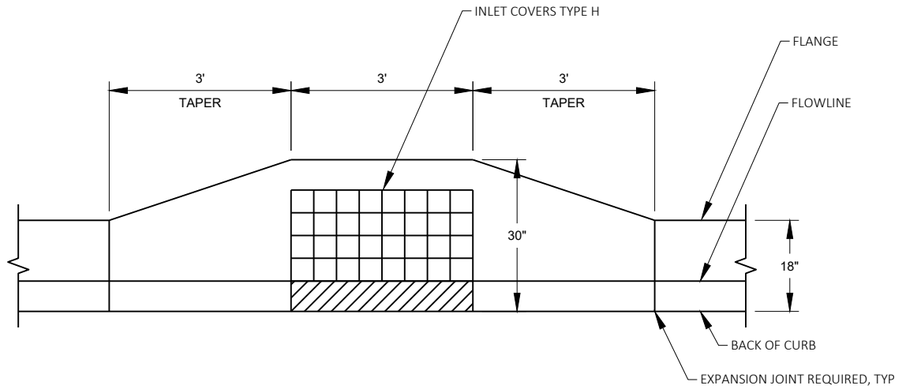
SECTION A-A

URBAN CONCRETE DRIVEWAY DETAIL - NO SIDEWALK



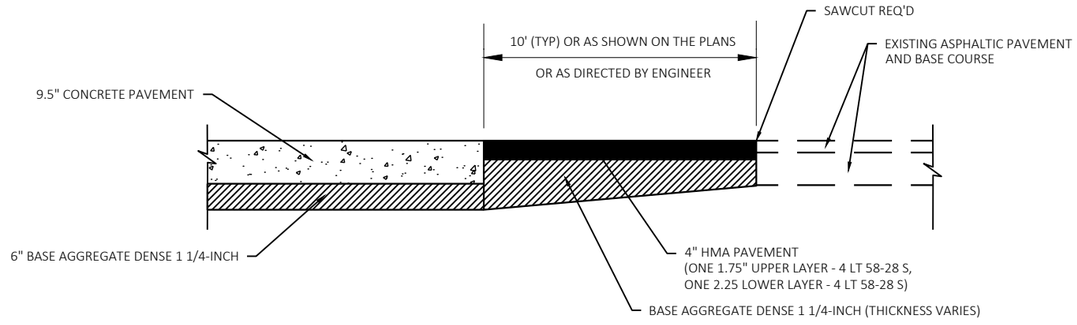
DRILLED TIE BARS AND CURB & GUTTER MATCH POINTS

CONSTRUCT AT ALL LOCATIONS WHERE PROPOSED CURB & GUTTER MATCHES EXISTING CURB & GUTTER



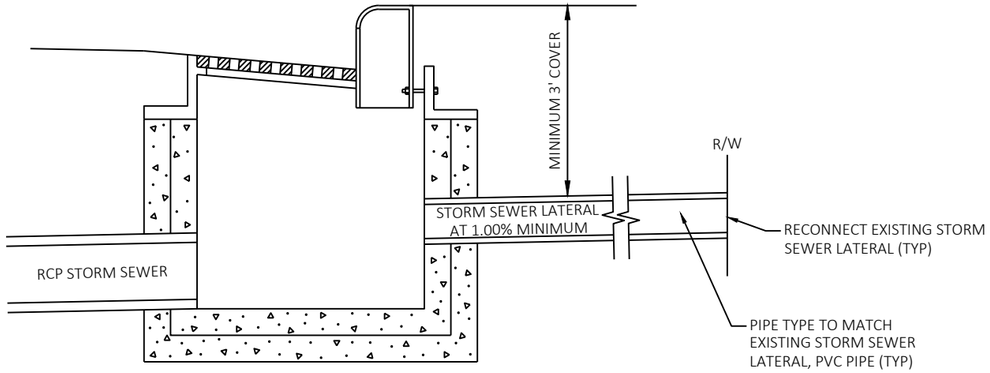
NOTE:
ALL CURB & GUTTER TO BE PAID FOR AS CONCRETE CURB & GUTTER 18-INCH TYPE A OR D

CONCRETE CURB & GUTTER 18-INCH AT INLET COVERS TYPE H



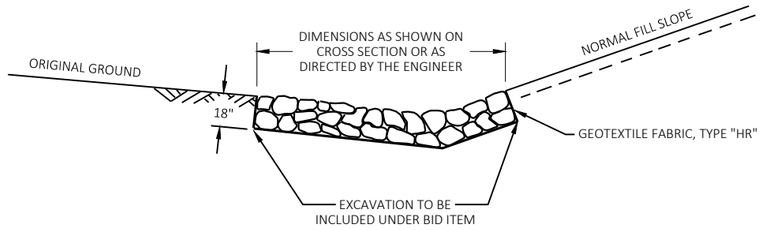
PAVEMENT TRANSITION AT EXISTING ASPHALTIC PAVEMENT MATCH POINTS

W GLENDALE DR (EAST LEG)
W GRAYLOG LN (EAST LEG)
W OVERLAND DR (WEST LEG)
W SCHNEIDER LN (EAST LEG)
CLUB HOUSE DR (EAST LEG)
W ROGERS DR (EAST) (WEST AND EAST LEGS)
W ROBIN RD (WEST LEG)
W RIDGE RD (WEST LEG)
DEER CREEK RUN (WEST LEG)

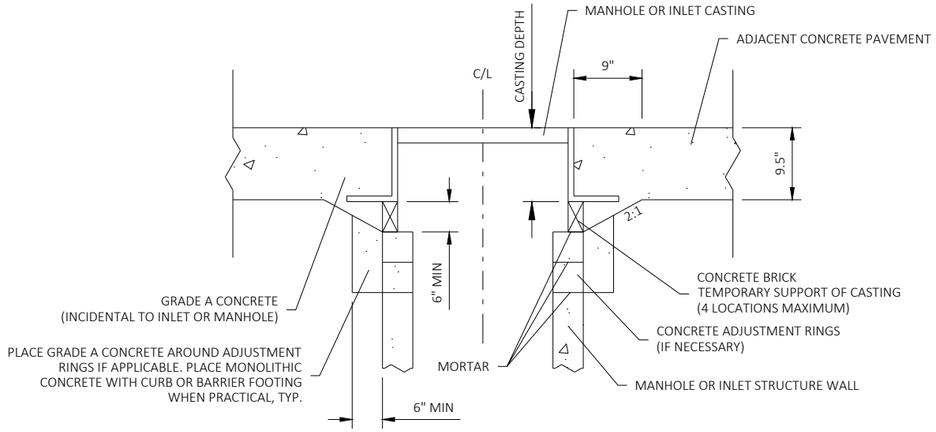


NOTE:
ALL LABOR AND MATERIALS NECESSARY FOR CONNECTION TO STORM SEWER SHALL BE INCIDENTAL TO THE BID ITEM OF RECONNECT STORM SEWER LATERALS.

RECONNECT STORM SEWER LATERAL DETAIL

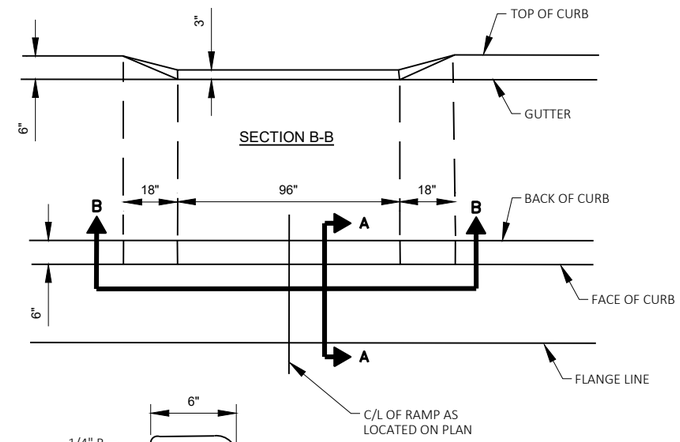


DETAIL FOR RIPRAP MEDIUM IN DITCHES



MONOLITHIC CONCRETE SHIMMING DETAIL

NOTES:
1. MONOLITHIC CONCRETE SHIMMING TO BE PROVIDED FOR ALL PROPOSED COVERS LOCATED IN CONCRETE PAVEMENT, CONCRETE CURB & GUTTER, AND CONCRETE BARRIER.
2. COST OF MONOLITHIC SHIM AND CONCRETE BRICKS TO BE INCIDENTAL TO MANHOLE OR INLET STRUCTURE BID ITEM.



SECTION A-A

MAINTENANCE OPENING

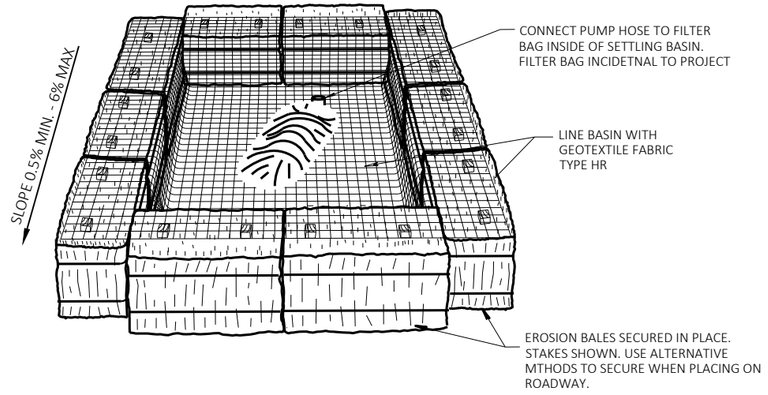
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE: TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 39.160 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 30.573 ACRES

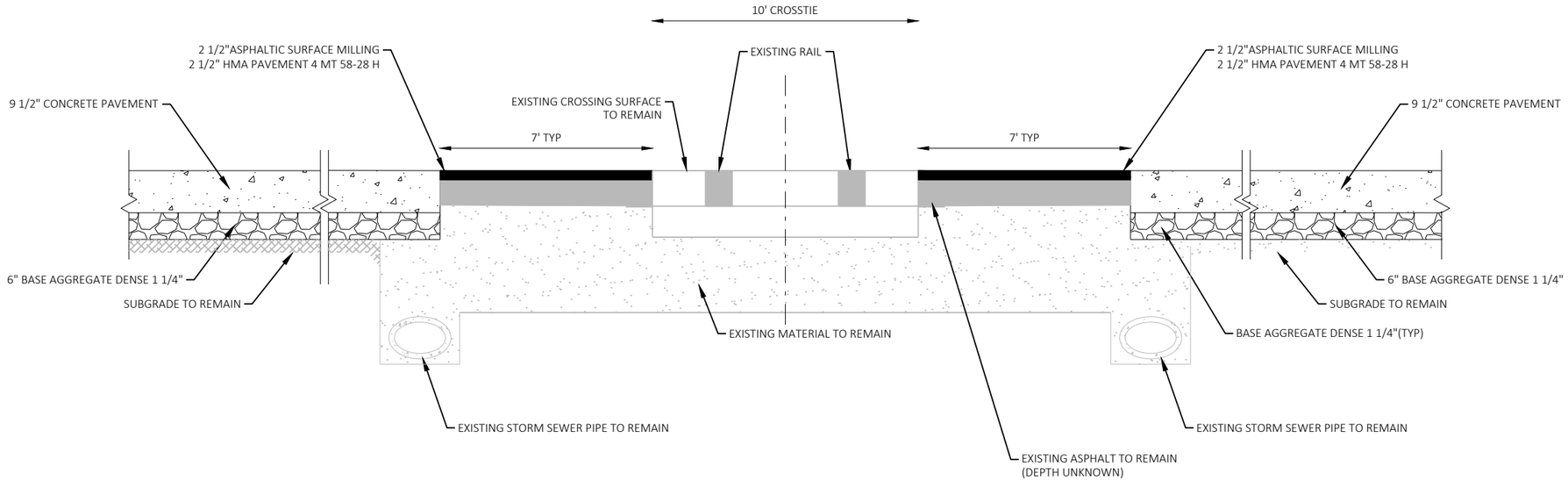
NOTES:

1. PUMP FROM DEWATERING OPERATIONS INTO TEMPORARY SETTLING BASINS PRIOR TO DISCHARGING INTO ROADSIDE DITCHES.
2. BASIN SHALL BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS SHALL BE DISPOSED BY THE CONTRACTOR OFF THE PROJECT SITE.
3. SETTLING BASIN SHALL BE PLACED IN AN UPLAND, FLAT, AND VEGETATED AREA, ON THE ROADWAY, SHOULDER OR EQUIVALENT LOCATION APPROVED BY THE ENGINEER.
4. SIZE OF SETTLING BASIN AND FILTER BAG SHALL BE DETERMINED BY THE CONTRACTOR AS PART OF THE EROSION CONTROL IMPLEMENTATION PLAN.
5. ONLY ONE HOSE PER BAG ALLOWED AT A TIME. SIZE BASIN APPROPRIATELY FOR ADDITONAL BAGS IF MORE THAN ONE HOSE IS NEEDED.
6. THE NECK OF THE BAG WHERE THE HOSE ATTACHES SHALL BE PLACED ON THE UPSTREAM CORNER OF THE SETTLING BASIN.
7. REPLACE SEDIMENT BAG, BALES, AND FABRIC AS NECESSARY OR AS DIRECTED BY THE ENGINEER. REMOVE SPENT BAGS PRIOR TO REPLACING. DO NOT STACK NEW BAG ON TOP OF SPENT BAG.
8. ALL ITEMS ARE INCIDENTAL TO THE CONTRACT. INCLUDING DISPOSAL AND REPLACEMENT OF BAGS AND BASIN MATERIALS.



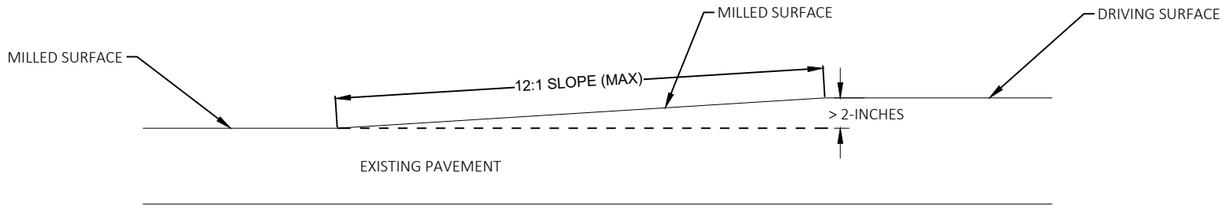
TEMPORARY SETTLING BASIN WITH SEDIMENT BAG

2



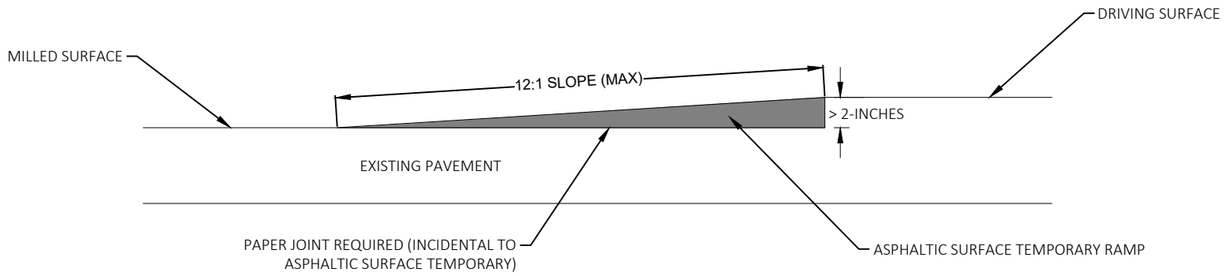
RAILROAD APPROACH DETAIL

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CONSTRUCTION DETAILS	SHEET 29	E



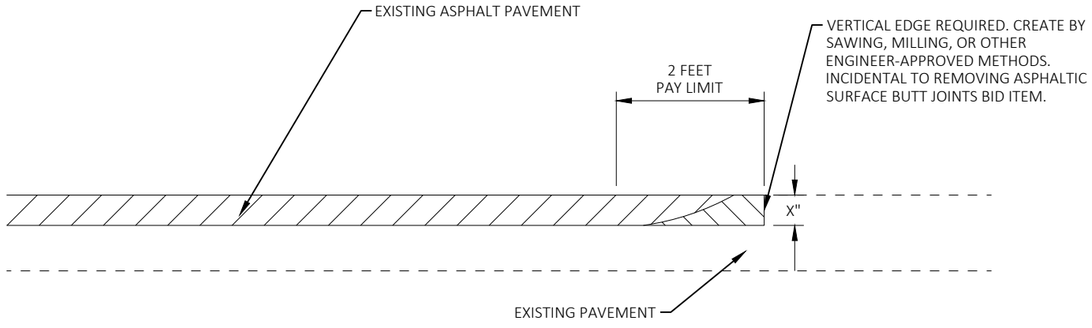
MILLED RAMP

NOTES:
- THESE CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS SUPPLEMENT THE REQUIREMENTS FOR PROVIDING DROP-OFF PROTECTION AS STATED IN STANDARD SPECIFICATION 104.6.1.2.3.
- ASPHALTIC SURFACE TEMPORARY RAMP PAID FOR AS 'ASPHALTIC SURFACE TEMPORARY'
- INSTALLATION, REMOVAL, AND DISPOSAL OF RAMP IS INCIDENTAL TO ASPHALTIC SURFACE TEMPORARY BID ITEM.



ASPHALTIC SURFACE TEMPORARY RAMP

CTH D (EAST LEG)



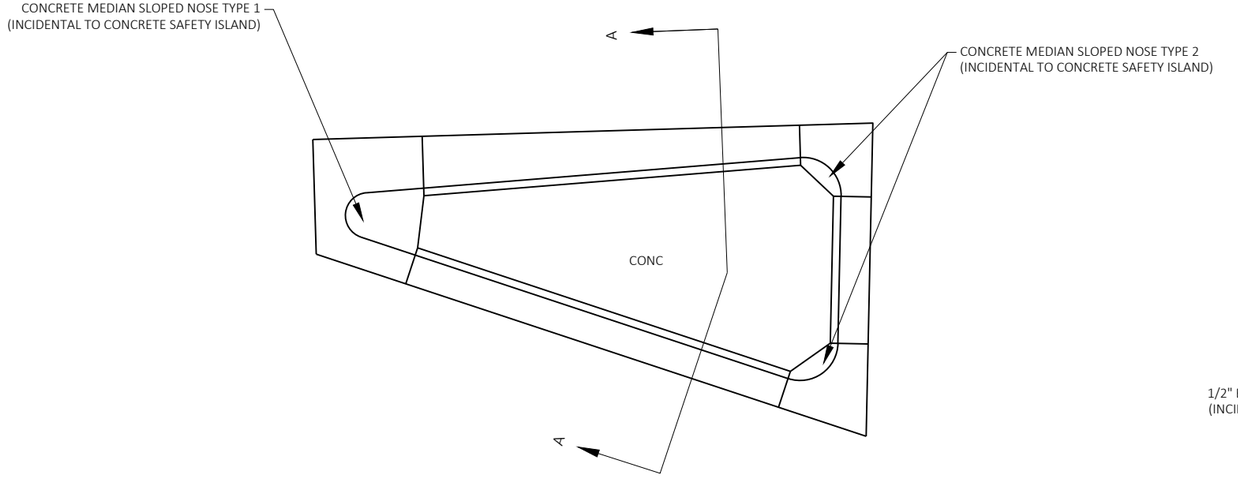
ROAD NAME	X (INCHES)
W LINCOLN AVE	2
W ROGERS DR	1.75

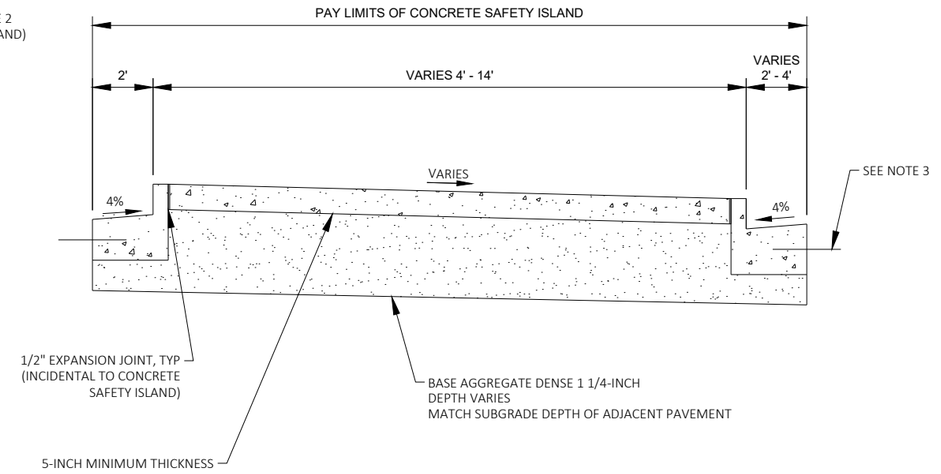
REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALTIC SURFACE BUTT JOINT'

REMOVING ASPHALTIC SURFACE MILLING

BUTT JOINT - NO CHANGE IN PROFILE

2





SECTION A-A

CONCRETE SAFETY ISLAND DETAIL

STA 185+15 - 185+35 LT

NOTES:

1. ENTIRE ISLAND IS PAID FOR AS CONCRETE SAFETY ISLAND.
2. SIZE AND SHAPE OF INDIVIDUAL ISLANDS VARIES, SEE PLAN FOR DIMENSIONS OF EACH ISLAND.
3. #4X2' TIE BARS SPACE AT 3' CENTER TO CENTER. TIE BARS INCIDENTAL TO CONCRETE SAFETY ISLAND.
4. CONCRETE SAFETY ISLAND MAY BE CONSTRUCTED AS ONE MONOLITHIC SLAB OR INDIVIDUAL SECTIONS OF CURB & GUTTER AND SIDEWALK. PAYMENT SHALL BE THE SAME FOR BOTH METHODS OF CONSTRUTION.

2

N

CTH D (CLEVELAND AVE)

PIPE UNDERDRAIN 6-INCH
(0.4% SLOPE FROM BOTTOM OF
RETAINING WALL LOW POINT)

APRON ENDWALL FOR UNDERDRAIN
REINFORCED CONCRETE 6-INCH
INVERT ELEVATION = 867.50

RIPRAP LIGHT

+06.60'D'
87.24' RT

PIPE UNDERDRAIN
AT BOTTOM OF RETAINING WALL LOW POINT
APPROXIMATE INVERT EL = 868.58

FENCE CHAIN LINK 4-FT

+83.20'D'
95.97' RT

R/W

R/W

R/W

3.17'

3.50'

R-67-173
WALL MODULAR BLOCK MSE
(SEE STRUCTURE PLANS)

TLE

TLE

TLE

CONC

CON

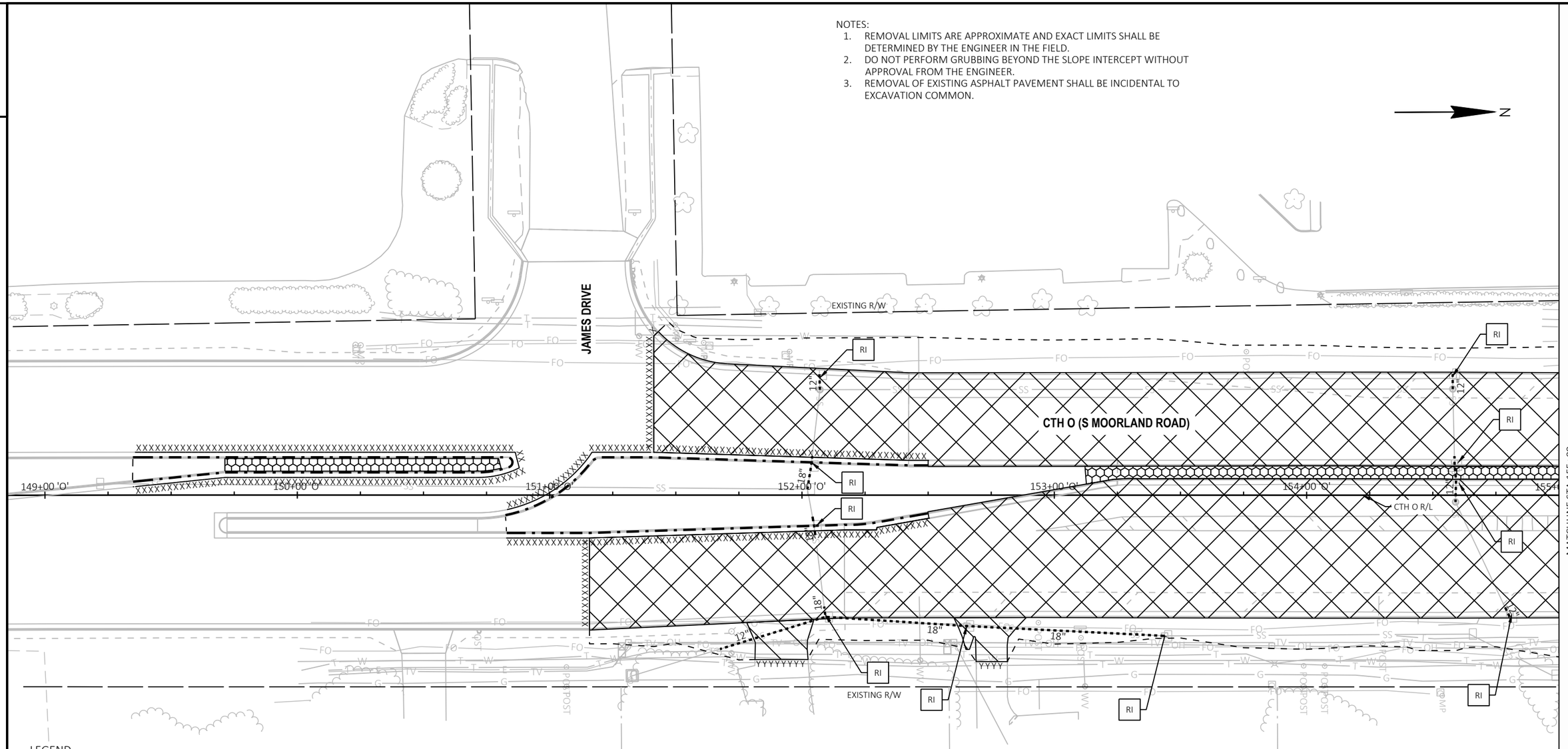
APRON ENDWALL FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH

R-67-173

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CONSTRUCTION DETAILS	SHEET 32	E

NOTES:

1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.



LEGEND

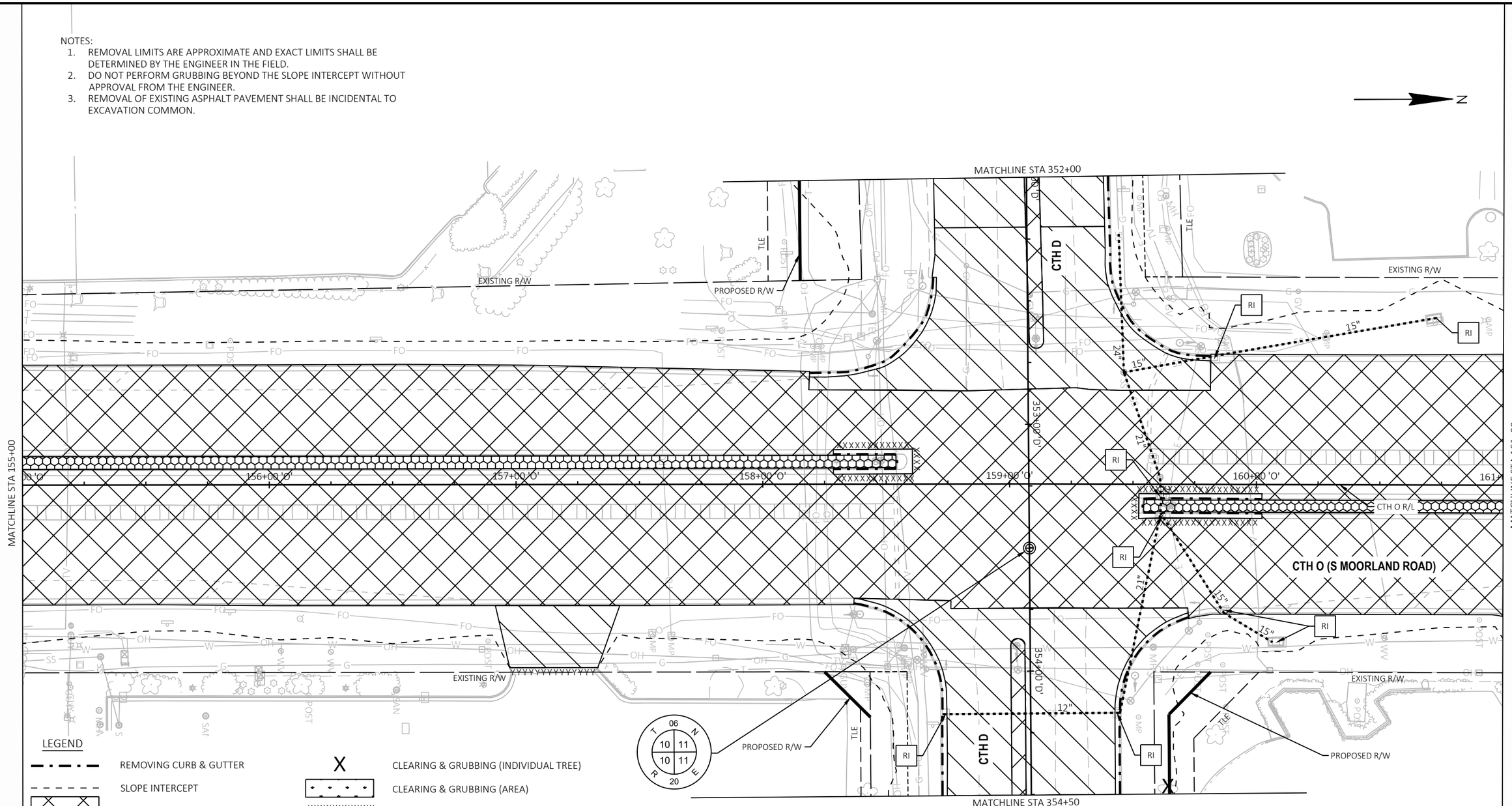
- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 33	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 01
PLOT DATE : 4/27/2026 3:44 PM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:

1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.



LEGEND

REMOVING CURB & GUTTER	CLEARING & GRUBBING (INDIVIDUAL TREE)
SLOPE INTERCEPT	CLEARING & GRUBBING (AREA)
REMOVING CONCRETE PAVEMENT	SAWING CONCRETE
REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)	SAWING ASPHALT
REMOVING CONCRETE SIDEWALK	REMOVING GUARDRAIL
REMOVING ASPHALTIC SURFACE MILLING	REMOVING MANHOLES
REMOVING INLETS	REMOVING SMALL PIPE CULVERT
REMOVING CONCRETE SURFACE DRAINS	REMOVING STORM SEWER
	REMOVING CURB

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 34	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 02
PLOT DATE : 4/27/2026 3:44 PM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

N

MATCHLINE STA 161+00

MATCHLINE STA 167+00

EXISTING R/W

CTH O (S MOORLAND ROAD)

CTH O R/L

W GLENDALE RD

EXISTING R/W

PROPOSED R/W

TLE

RI

RM

RC

12"

LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

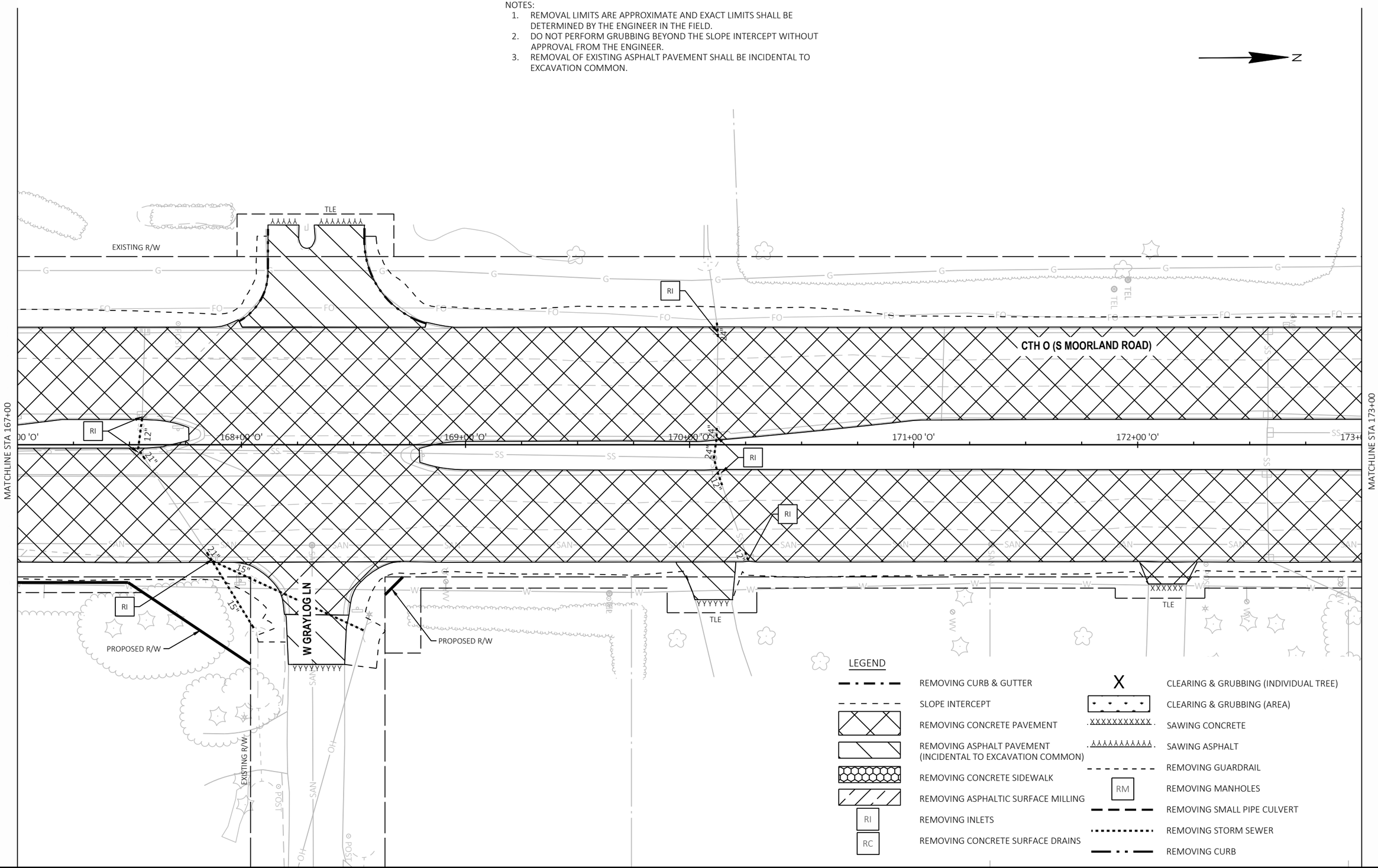
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 35	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 03

PLOT DATE : 4/27/2026 3:45 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 36	E

LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

N

WETLAND BOUNDARY

EXISTING R/W

W OVERLAND RD

CTH O (S MOORLAND ROAD)

RM

RI

18"

12"

12"

RI

174+00 'O'

175+00 'O'

176+00 'O'

177+00 'O'

178+00 'O'

CTH O R/L

MATCHLINE STA 173+00

MATCHLINE STA 179+00

EXISTING R/W

TLE

TLE

TLE

TLE

PROPOSED R/W

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 37	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 05

PLOT DATE : 4/27/2026 3:45 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

N

WETLAND BOUNDARY

EXISTING R/W

CTH O (S MOORLAND ROAD)

MATCHLINE STA 179+00

180+00 'O'

181+00 'O'

182+00 'O'

183+00 'O'

184+00 'O'

MATCHLINE STA 184+50

CTH O R/L

W SCHNEIDER LN

PROPOSED R/W

EXISTING R/W

TLE

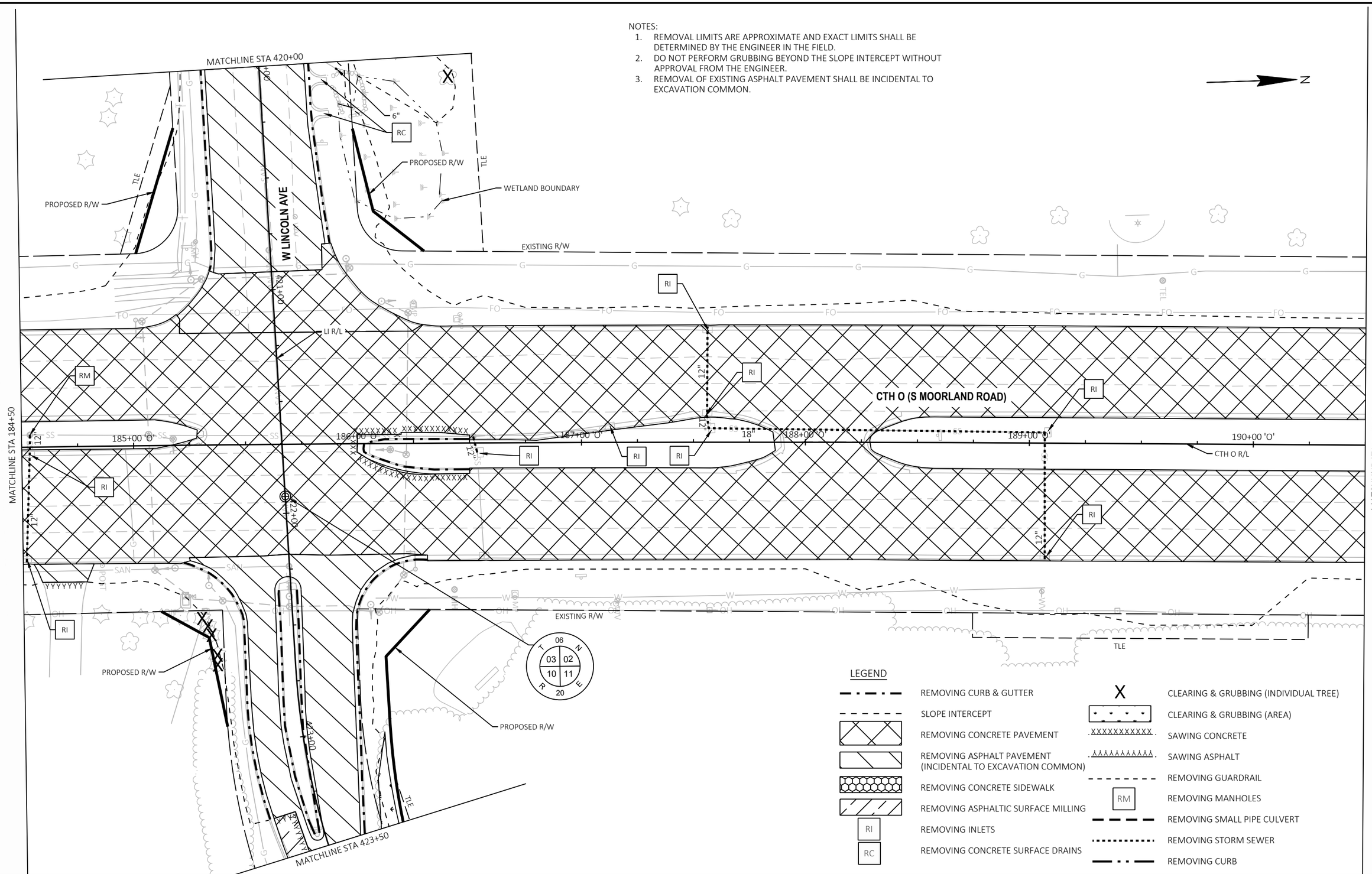
PLE

2

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 38	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 06
PLOT DATE : 4/27/2026 3:45 PM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.



LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- XXXXXXXXXX — SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 39	E

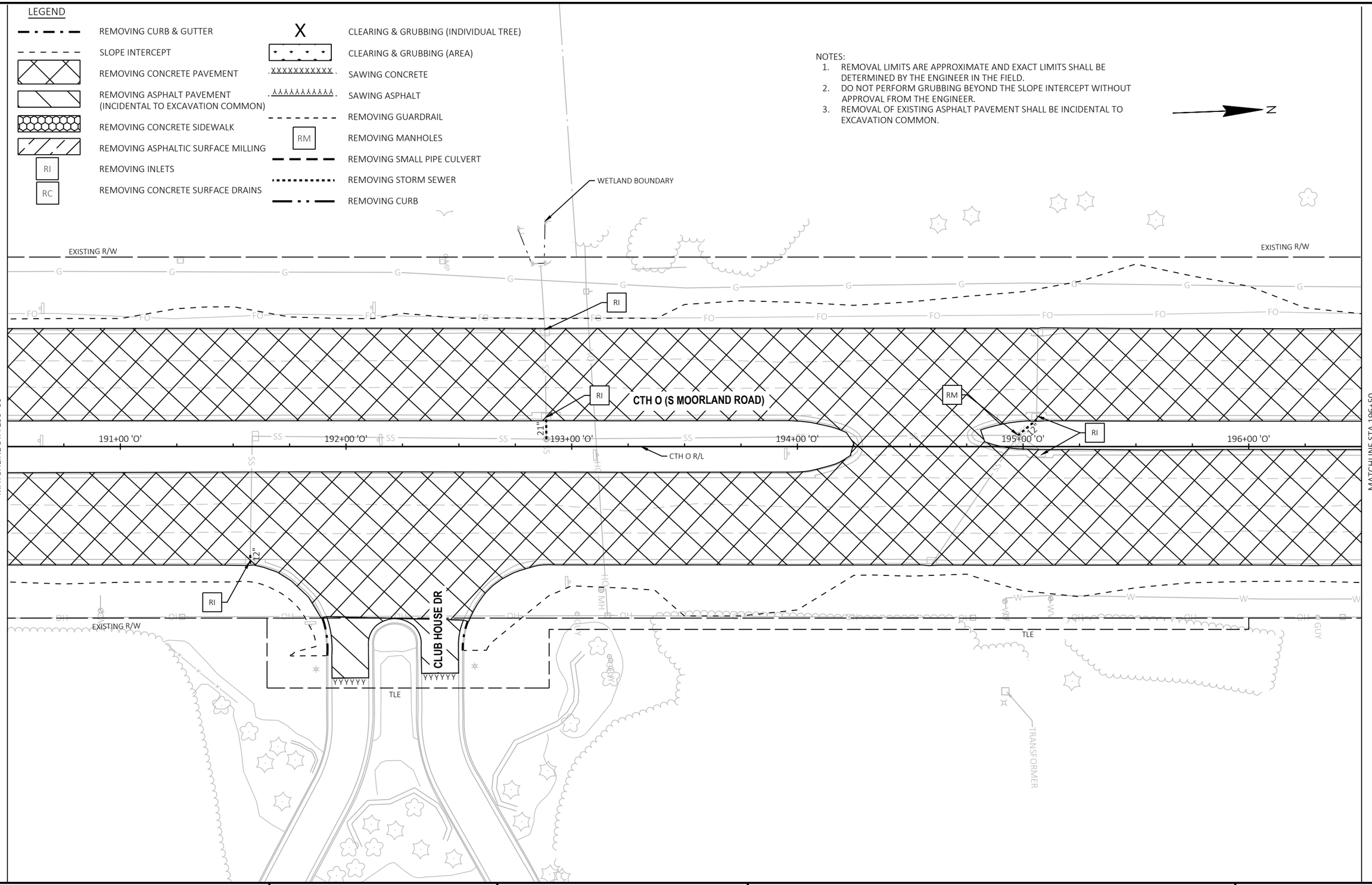
2

LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 40	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 08

PLOT DATE : 4/27/2026 3:45 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

MATCHLINE STA 448+25

EXISTING R/W

+30 -47.00' LT

+35 -40.00' LT

DO NO EXCAVATE BEYOND EXISTING R/W NEAR VENTS/PIPING OR DISTURB THE VENTS/PIPING FOR GAS TANKS. DO NOT PARK VEHICLES OR EQUIPMENT ON THE FUEL MANHOLES OR ASSOCIATED CONCRETE PAD.

+75 -40.00' LT

FENCE SAFETY
PLACE ALONG EXISTING R/W.

+80 -47.00' LT

PROPOSED R/W

EXISTING R/W

W ROGERS DR

449+00 RAW

TLE

12"

RI

RM

RG R/L

CTH O (S MOORLAND ROAD)

197+00 'O'

198+00 'O'

200+00 'O'

CTH O R/L

201+00 'O'

202+00 'O'

MATCHLINE STA 196+50

MATCHLINE STA 202+50

EXISTING R/W

PROPOSED R/W

WOODVIEW DR

EXISTING R/W

WV R/L

PROPOSED R/W

NOTES:

1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 41	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 09

PLOT DATE : 4/27/2026 3:45 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

N

MATCHLINE STA 202+50

EXISTING R/W

CTH O (S MOORLAND ROAD)

203+00 'O'

204+00 'O'

205+00 'O'

206+00 'O'

207+00 'O'

208+00 'O'

CTH O R/L

RM

RI

18"

MATCHLINE STA 208+50

EXISTING R/W

W ROGERS DR (EAST)

PROPOSED R/W

EXIST R/W

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 42	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 10

PLOT DATE : 4/27/2026 3:45 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

T 06 N
03 02
03 02
R 20 E

N

WETLAND BOUNDARY
PROPOSED R/W
PLE
DO NOT DISTURB CROSSING PANELS
TLE
EXISTING R/W
CTH O (S MOORLAND ROAD)
CTH O R/L
EXISTING R/W
TLE

MATCHLINE STA 208+50

209+00 'O'
210+00 'O'
211+00 'O'
212+00 'O'
213+00 'O'
214+00 'O'

18"
12"
18"
18"

RI
RI
RI
RI

MATCHLINE STA 214+50

LEGEND

REMOVING CURB & GUTTER	CLEARING & GRUBBING (INDIVIDUAL TREE)
SLOPE INTERCEPT	CLEARING & GRUBBING (AREA)
REMOVING CONCRETE PAVEMENT	SAWING CONCRETE
REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)	SAWING ASPHALT
REMOVING CONCRETE SIDEWALK	REMOVING GUARDRAIL
REMOVING ASPHALTIC SURFACE MILLING	REMOVING MANHOLES
REMOVING INLETS	REMOVING SMALL PIPE CULVERT
REMOVING CONCRETE SURFACE DRAINS	REMOVING STORM SEWER
	REMOVING CURB

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 43	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 11
PLOT DATE : 4/28/2026 10:11 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

N

EXISTING R/W

W ROBIN RD

CTH O (S MOORLAND ROAD)

MATCHLINE STA 214+50

215+00 'O'

216+00 'O'

217+00 'O'

218+00 'O'

219+00 'O'

220+00 'O'

CTH O R/L

MATCHLINE STA 220+50

WETLAND BOUNDARY

RM

RI

12"

24"

30"

15"

SAN

SS

G

W

FO

OH

LEGEND

REMOVING CURB & GUTTER	CLEARING & GRUBBING (INDIVIDUAL TREE)
SLOPE INTERCEPT	CLEARING & GRUBBING (AREA)
REMOVING CONCRETE PAVEMENT	SAWING CONCRETE
REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)	SAWING ASPHALT
REMOVING CONCRETE SIDEWALK	REMOVING GUARDRAIL
REMOVING ASPHALTIC SURFACE MILLING	REMOVING MANHOLES
REMOVING INLETS	REMOVING SMALL PIPE CULVERT
REMOVING CONCRETE SURFACE DRAINS	REMOVING STORM SEWER
	REMOVING CURB

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 44	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 12

PLOT DATE : 4/28/2026 10:11 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

W RIDGE RD

CTH O (S MOORLAND ROAD)

DEER CREEK RUN

TLE

EXISTING R/W

MATCHLINE STA 220+50

MATCHLINE STA 226+50

221+00 'O'

222+00 'O'

223+00 'O'

224+00 'O'

225+00 'O'

226+00 'O'

CTH O R/L

RI

RM

12"

15"

WETLAND BOUNDARY

TLE

EXISTING R/W

TLE

LEGEND

REMOVING CURB & GUTTER	CLEARING & GRUBBING (INDIVIDUAL TREE)
SLOPE INTERCEPT	CLEARING & GRUBBING (AREA)
REMOVING CONCRETE PAVEMENT	SAWING CONCRETE
REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)	SAWING ASPHALT
REMOVING CONCRETE SIDEWALK	REMOVING GUARDRAIL
REMOVING ASPHALTIC SURFACE MILLING	REMOVING MANHOLES
REMOVING INLETS	REMOVING SMALL PIPE CULVERT
REMOVING CONCRETE SURFACE DRAINS	REMOVING STORM SEWER
	REMOVING CURB

NOTES:

1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 45	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 13

PLOT DATE : 4/28/2026 10:11 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

TRANSFORMER

TLE

EXISTING R/W

RI

RI

12"

12"

CTH O (S MOORLAND ROAD)

CTH O R/L

MATCHLINE STA 226+50

227+00 'O'

228+00 'O'

229+00 'O'

230+00 'O'

231+00 'O'

232+00 'O'

RI

EXISTING R/W

LEGEND

REMOVING CURB & GUTTER	CLEARING & GRUBBING (INDIVIDUAL TREE)
SLOPE INTERCEPT	CLEARING & GRUBBING (AREA)
REMOVING CONCRETE PAVEMENT	SAWING CONCRETE
REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)	SAWING ASPHALT
REMOVING CONCRETE SIDEWALK	REMOVING GUARDRAIL
REMOVING ASPHALTIC SURFACE MILLING	REMOVING MANHOLES
REMOVING INLETS	REMOVING SMALL PIPE CULVERT
REMOVING CONCRETE SURFACE DRAINS	REMOVING STORM SEWER
	REMOVING CURB

NOTES:

1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 46	E

2

2

WETLAND BOUNDARY

N

EXISTING R/W

EXISTING R/W

EXISTING R/W

343+00 'D'

344+00 'D'

345+00 'D'

CTH D

346+00 'D'

347+00 'D'

MATCHLINE STA 347+75

EXISTING R/W

TRANSFORMER

EXISTING R/W

WETLAND BOUNDARY

LEGEND

REMOVING CURB & GUTTER	CLEARING & GRUBBING (INDIVIDUAL TREE)
SLOPE INTERCEPT	CLEARING & GRUBBING (AREA)
REMOVING CONCRETE PAVEMENT	SAWING CONCRETE
REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)	SAWING ASPHALT
REMOVING CONCRETE SIDEWALK	REMOVING GUARDRAIL
REMOVING ASPHALTIC SURFACE MILLING	REMOVING MANHOLES
REMOVING INLETS	REMOVING SMALL PIPE CULVERT
REMOVING CONCRETE SURFACE DRAINS	REMOVING STORM SEWER
	REMOVING CURB

NOTES:

1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 47	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 17-D

PLOT DATE : 4/27/2026 3:46 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

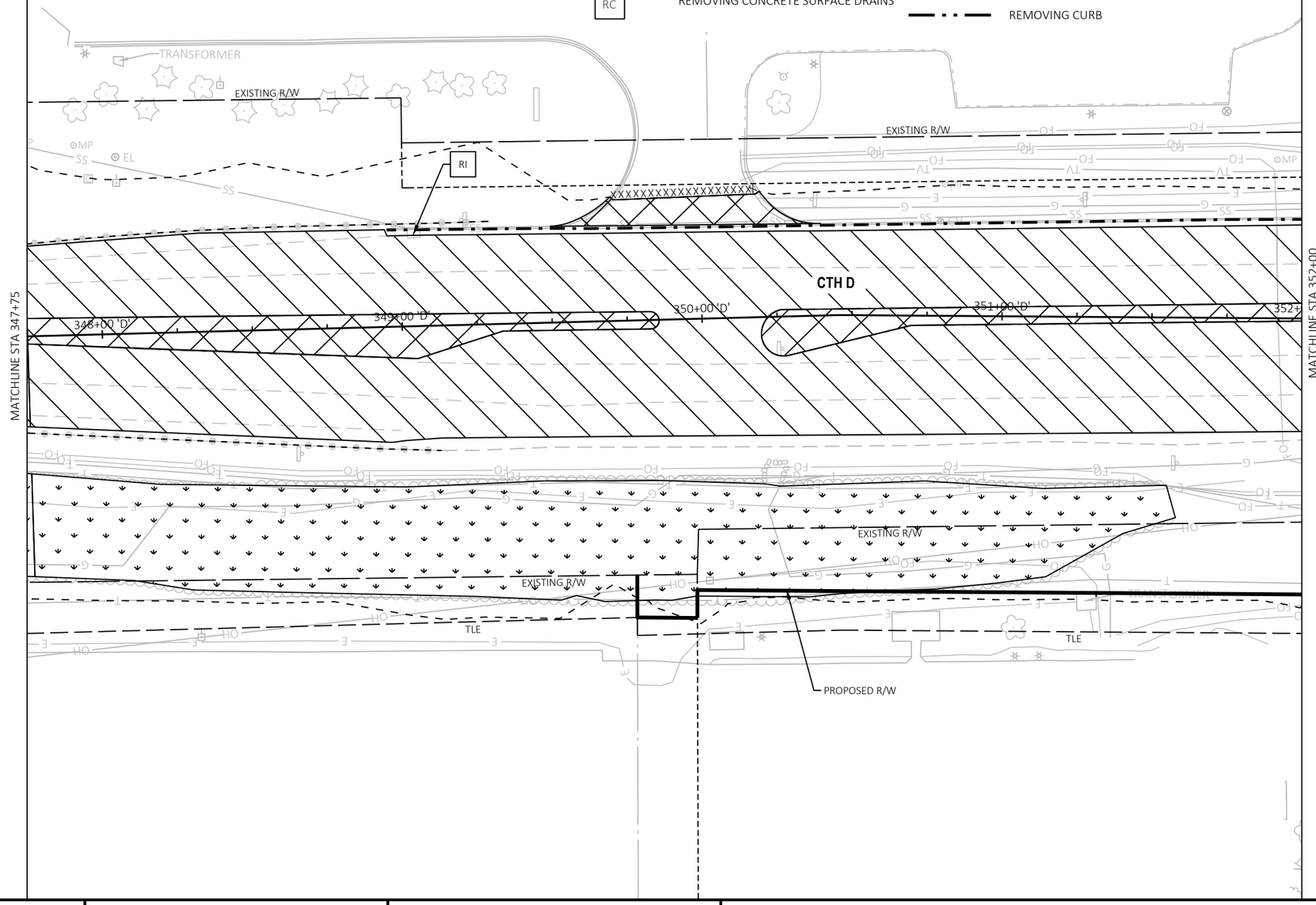
WISDOT/CADDS SHEET 42

NOTES:

1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB



N

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 48	E

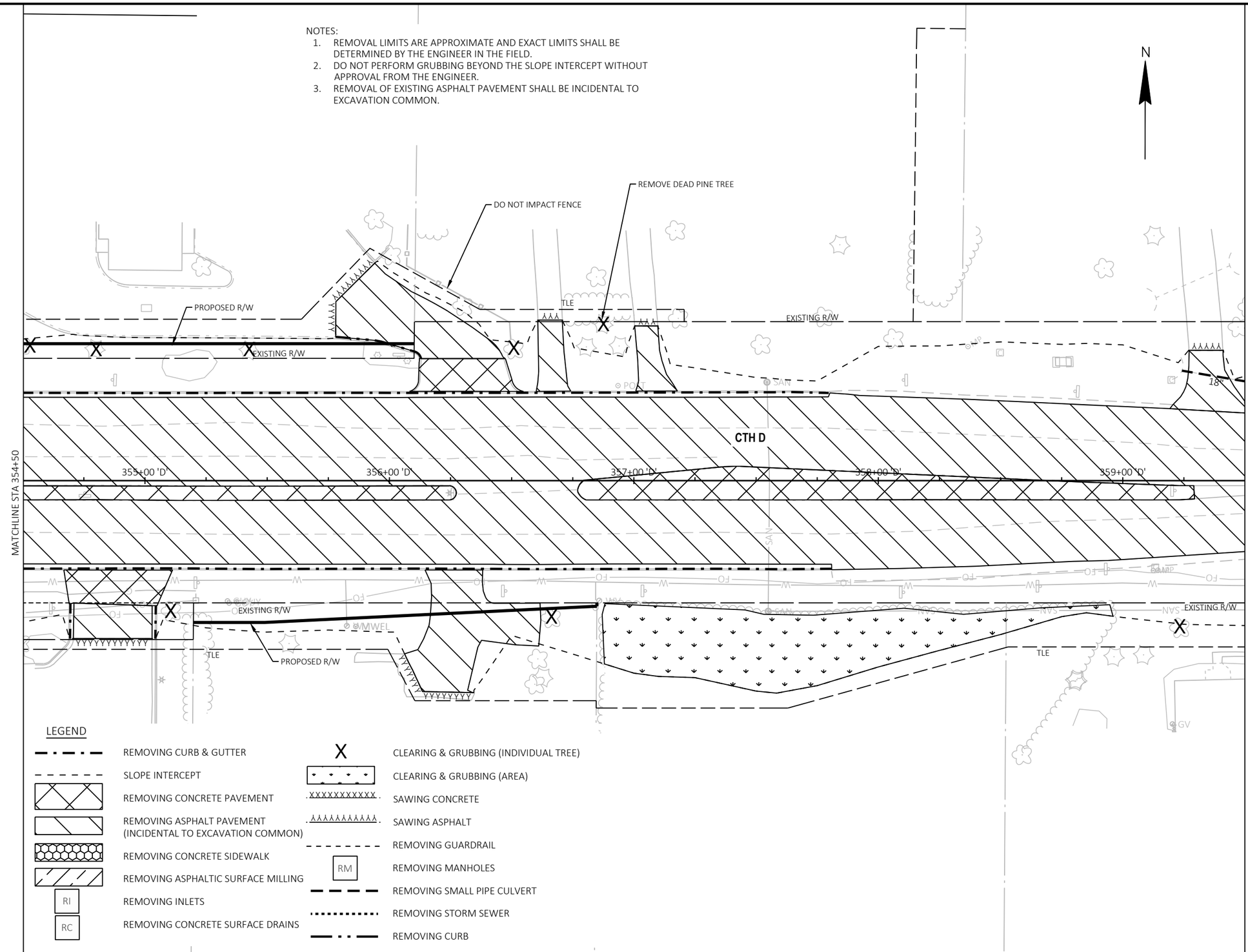
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 18-D

PLOT DATE : 4/27/2026 3:46 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.



LEGEND

REMOVING CURB & GUTTER	CLEARING & GRUBBING (INDIVIDUAL TREE)
SLOPE INTERCEPT	CLEARING & GRUBBING (AREA)
REMOVING CONCRETE PAVEMENT	SAWING CONCRETE
REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)	SAWING ASPHALT
REMOVING CONCRETE SIDEWALK	REMOVING GUARDRAIL
REMOVING ASPHALTIC SURFACE MILLING	REMOVING MANHOLES
REMOVING INLETS	REMOVING SMALL PIPE CULVERT
REMOVING CONCRETE SURFACE DRAINS	REMOVING STORM SEWER
	REMOVING CURB

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 49	E

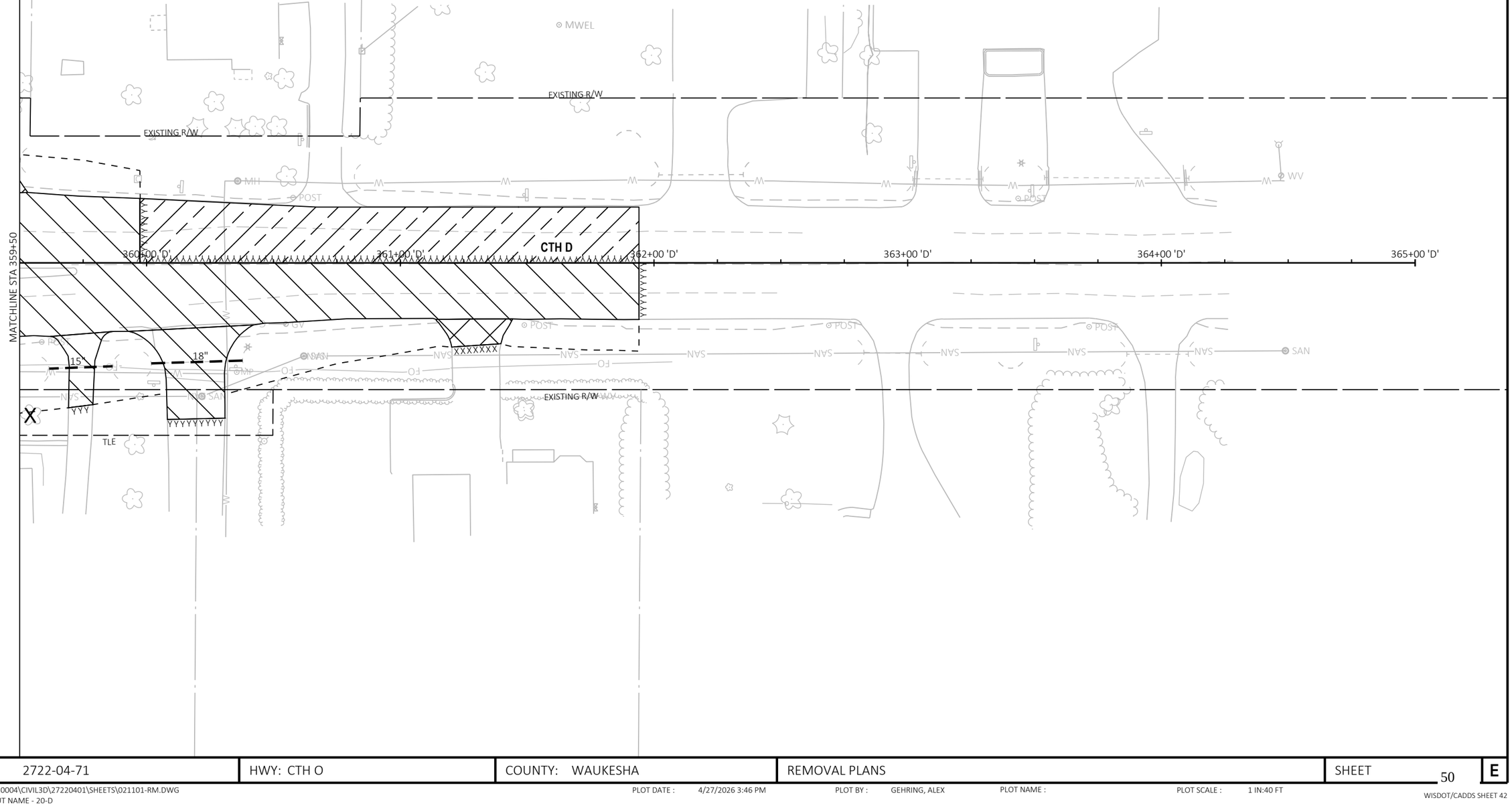
NOTES:

1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- XXXXXXXXXXX — SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 50	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 20-D

PLOT DATE : 4/27/2026 3:46 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

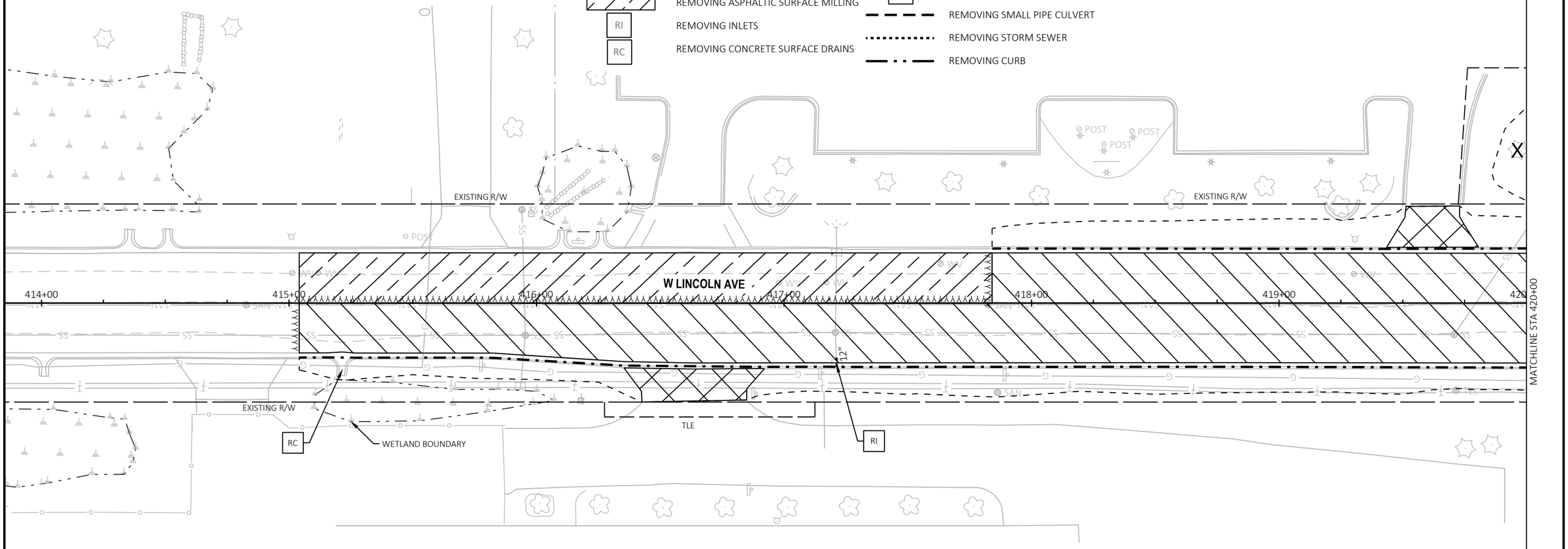
WISDOT/CADDS SHEET 42

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

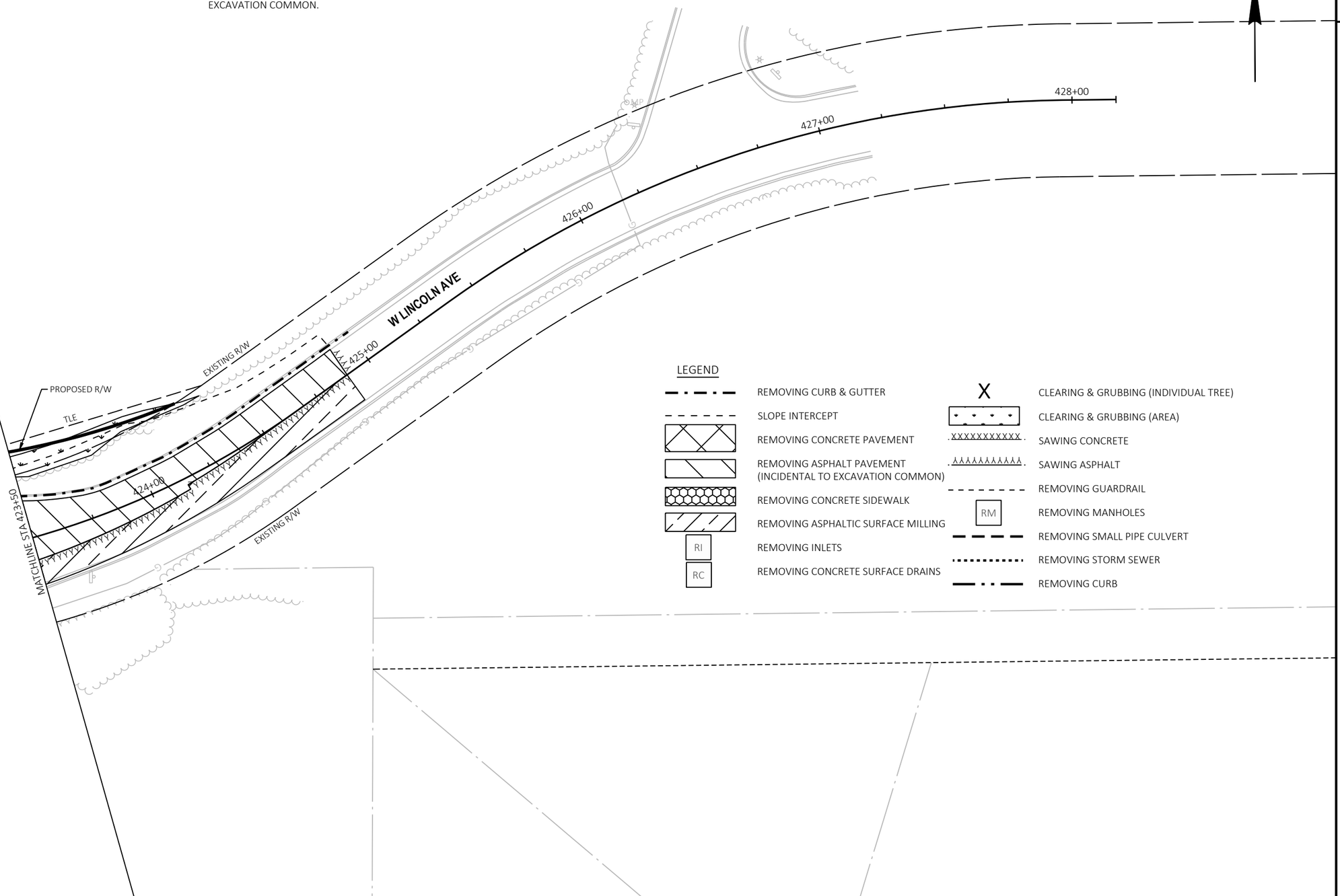
N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 51	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 21-LI
PLOT DATE : 4/27/2026 3:46 PM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.



LEGEND

- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- XXXXXXXXXXX — SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 52	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021101-RM.DWG
LAYOUT NAME - 23-LI
PLOT DATE : 4/27/2026 3:46 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES:
1. REMOVAL LIMITS ARE APPROXIMATE AND EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. DO NOT PERFORM GRUBBING BEYOND THE SLOPE INTERCEPT WITHOUT APPROVAL FROM THE ENGINEER.
3. REMOVAL OF EXISTING ASPHALT PAVEMENT SHALL BE INCIDENTAL TO EXCAVATION COMMON.

LEGEND

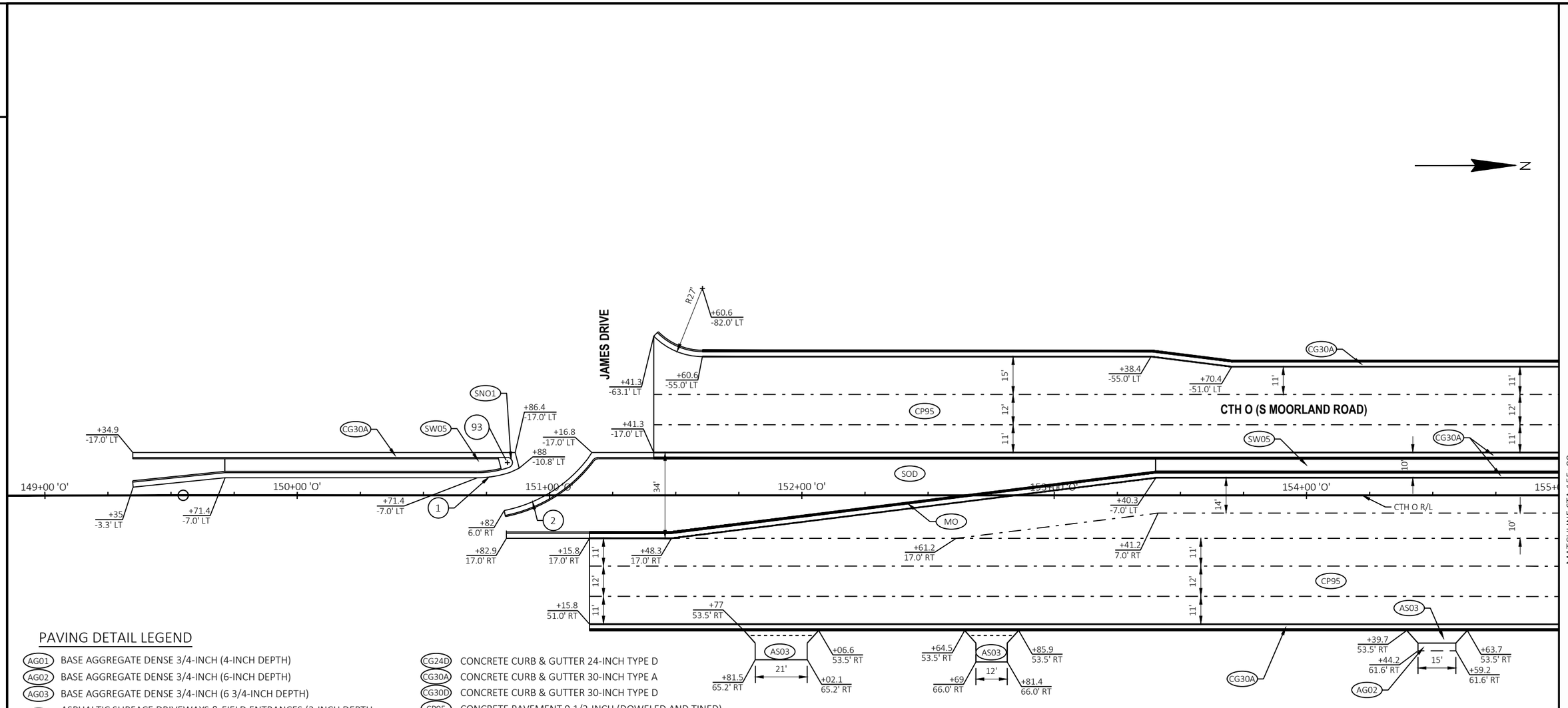
- REMOVING CURB & GUTTER
- SLOPE INTERCEPT
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALT PAVEMENT (INCIDENTAL TO EXCAVATION COMMON)
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- RI — REMOVING INLETS
- RC — REMOVING CONCRETE SURFACE DRAINS
- X — CLEARING & GRUBBING (INDIVIDUAL TREE)
- CLEARING & GRUBBING (AREA)
- SAWING CONCRETE
- SAWING ASPHALT
- REMOVING GUARDRAIL
- RM — REMOVING MANHOLES
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING CURB

N

Do not impact wall
TLE
WETLAND BOUNDARY
EXISTING R/W
REMOVING MASONRY
18"
W ROGERS DR
443+00 'RW'
444+00 'RW'
445+00 'RW'
446+00 'RW'
447+00 'RW'
448+00 'RW'
MATCHLINE STA 448+25
30"
24"
PROPOSED R/W
RC
POST

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	REMOVAL PLANS	SHEET 53	E

2



PAVING DETAIL LEGEND

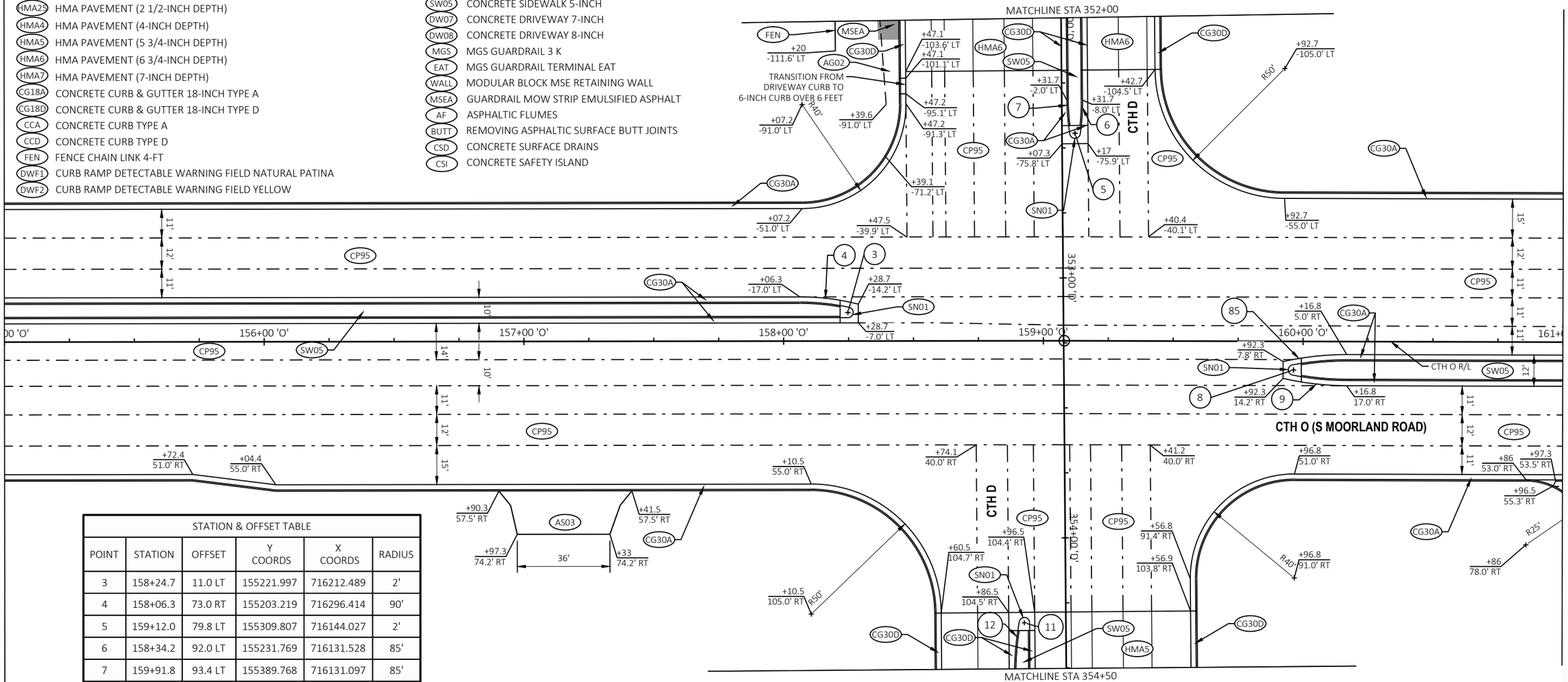
- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND
- CONCRETE PAVEMENT HES 9 1/2-INCH
- CONCRETE DRIVEWAY HES 7-INCH

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1	150+71.4	47.0 LT	154468.842	716173.461	40'
2	150+71.4	48.0 LT	154468.846	716172.461	55'
93	150+83.3	13.0 LT	154480.536	716207.508	2'

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 54	E

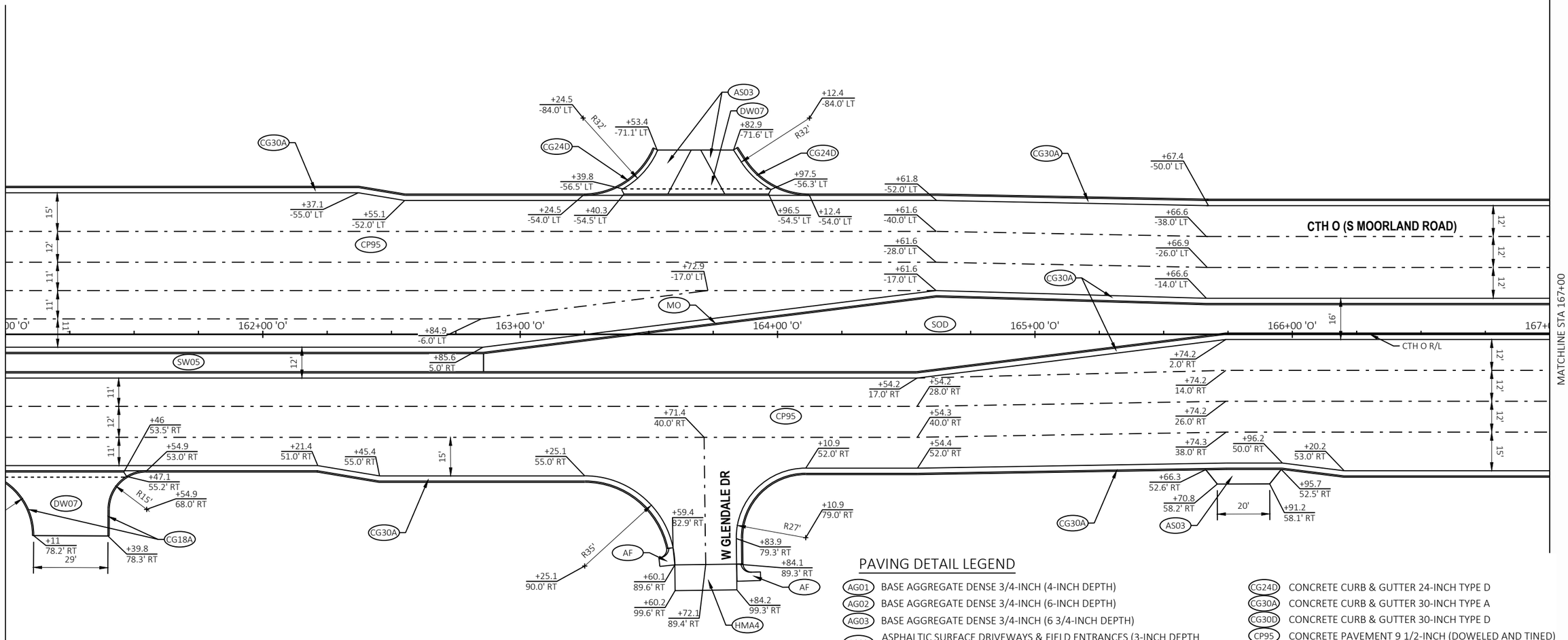
PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
3	158+24.7	11.0 LT	155221.997	716212.489	2'
4	158+06.3	73.0 RT	155203.219	716296.414	90'
5	159+12.0	79.8 LT	155309.807	716144.027	2'
6	158+34.2	92.0 LT	155231.769	716131.528	85'
7	159+91.8	93.4 LT	155389.768	716131.097	85'
8	159+96.3	11.0 RT	155393.442	716235.534	2'
9	160+16.8	93.0 LT	155414.770	716131.701	110'
11	158+92.5	108.4 RT	155289.317	716332.207	2'
12	160+07.2	125.0 RT	155403.365	716349.617	120'
85	160+16.8	115.0 RT	155413.101	716339.695	110'

2



PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

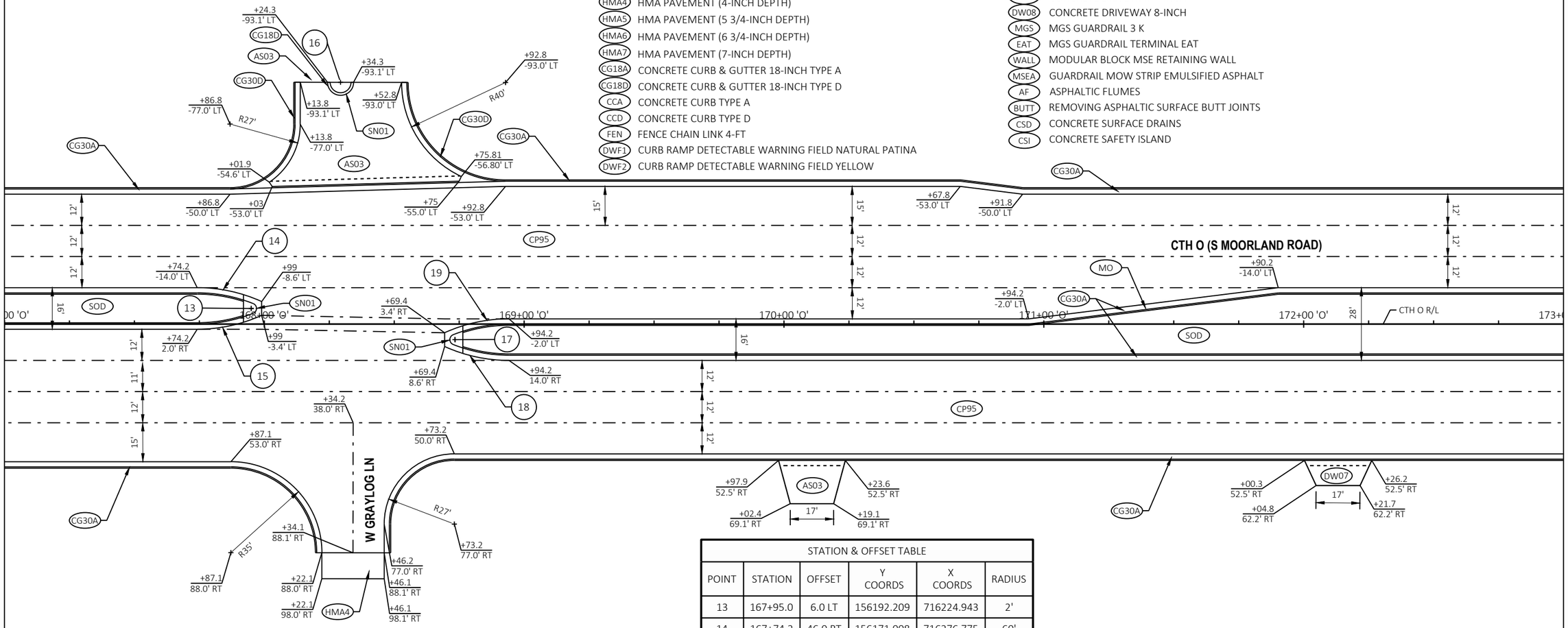
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 56	E

2

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
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- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

N



STATION & OFFSET TABLE

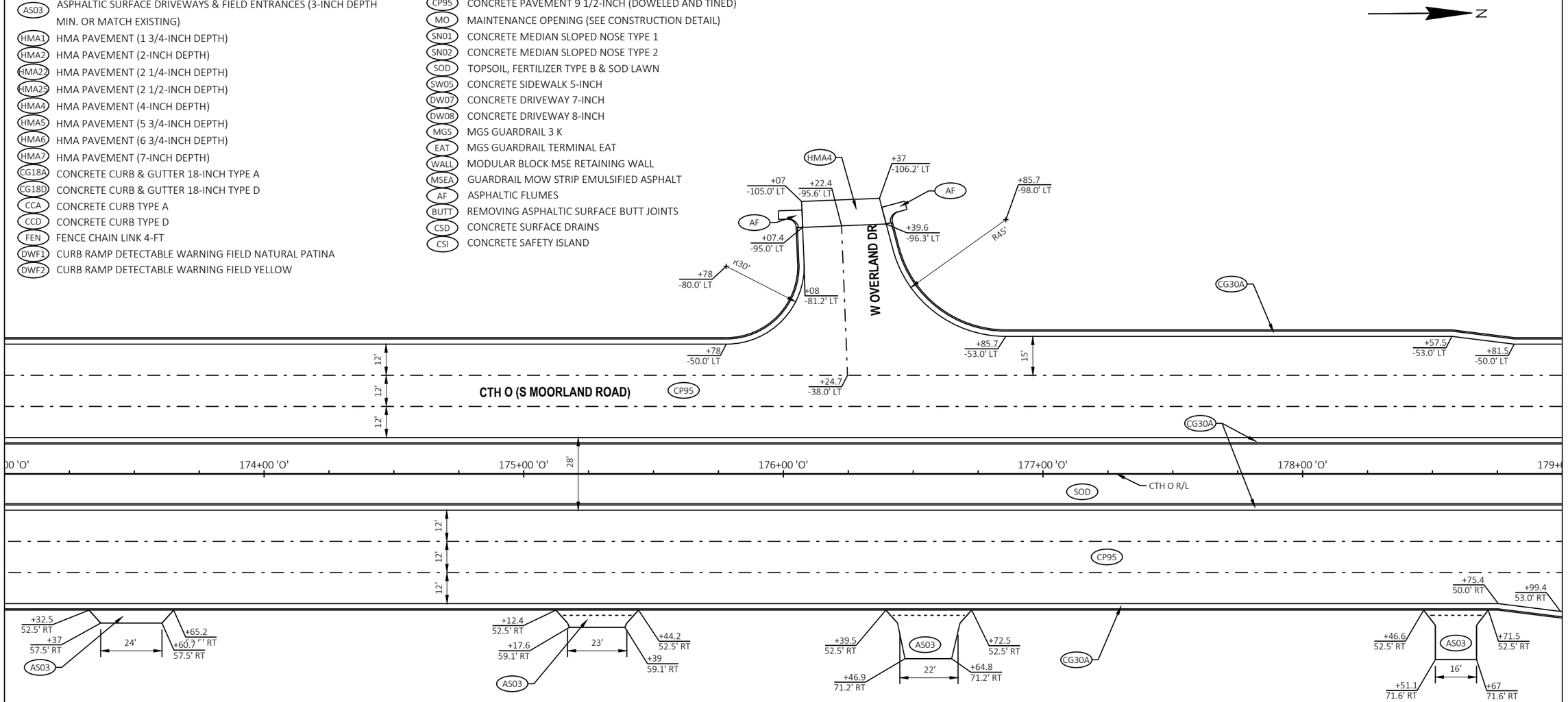
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
13	167+95.0	6.0 LT	156192.209	716224.943	2'
14	167+74.2	46.0 RT	156171.008	716276.775	60'
15	167+74.2	58.0 LT	156171.842	716172.778	60'
16	168+29.3	93.1 LT	156227.273	716138.153	5'
17	168+73.4	6.0 RT	156270.528	716237.572	2'
18	168+94.2	46.0 LT	156291.729	716185.741	60'
19	168+94.2	58.0 RT	156290.895	716289.737	60'

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 57	E

2

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
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- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
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- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
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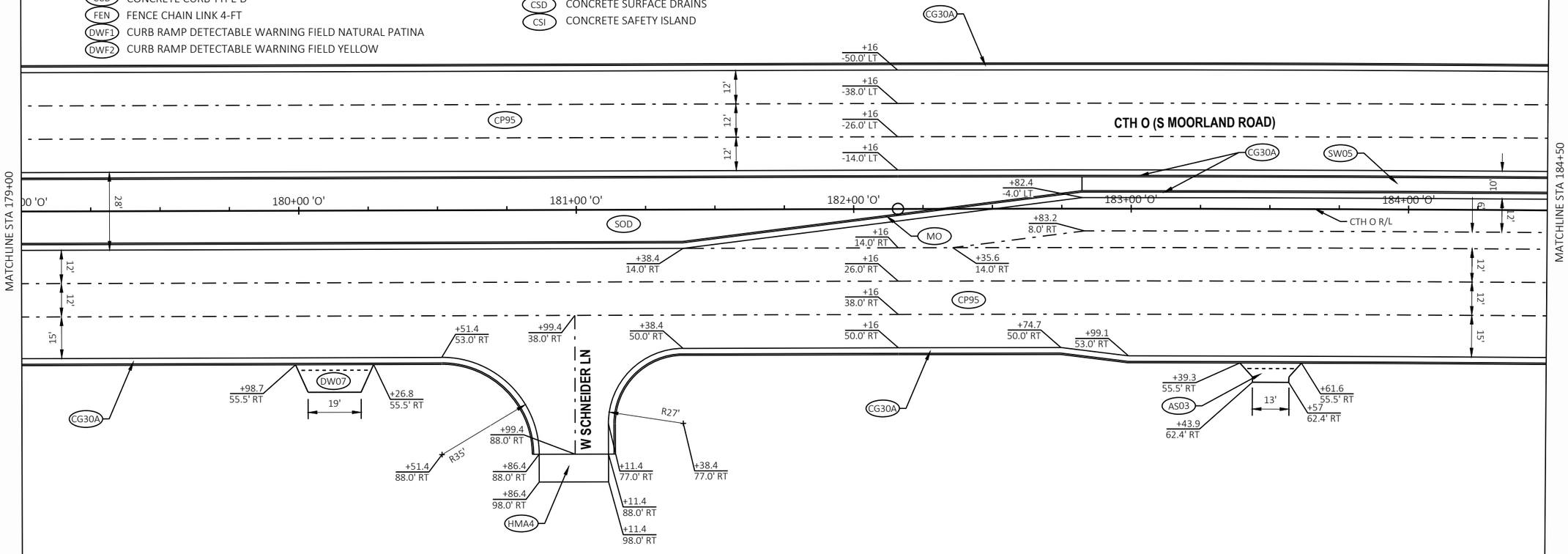
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 58	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021201-PD.DWG
LAYOUT NAME - 05

PLOT DATE : 4/27/2026 3:02 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

PAVING DETAIL LEGEND

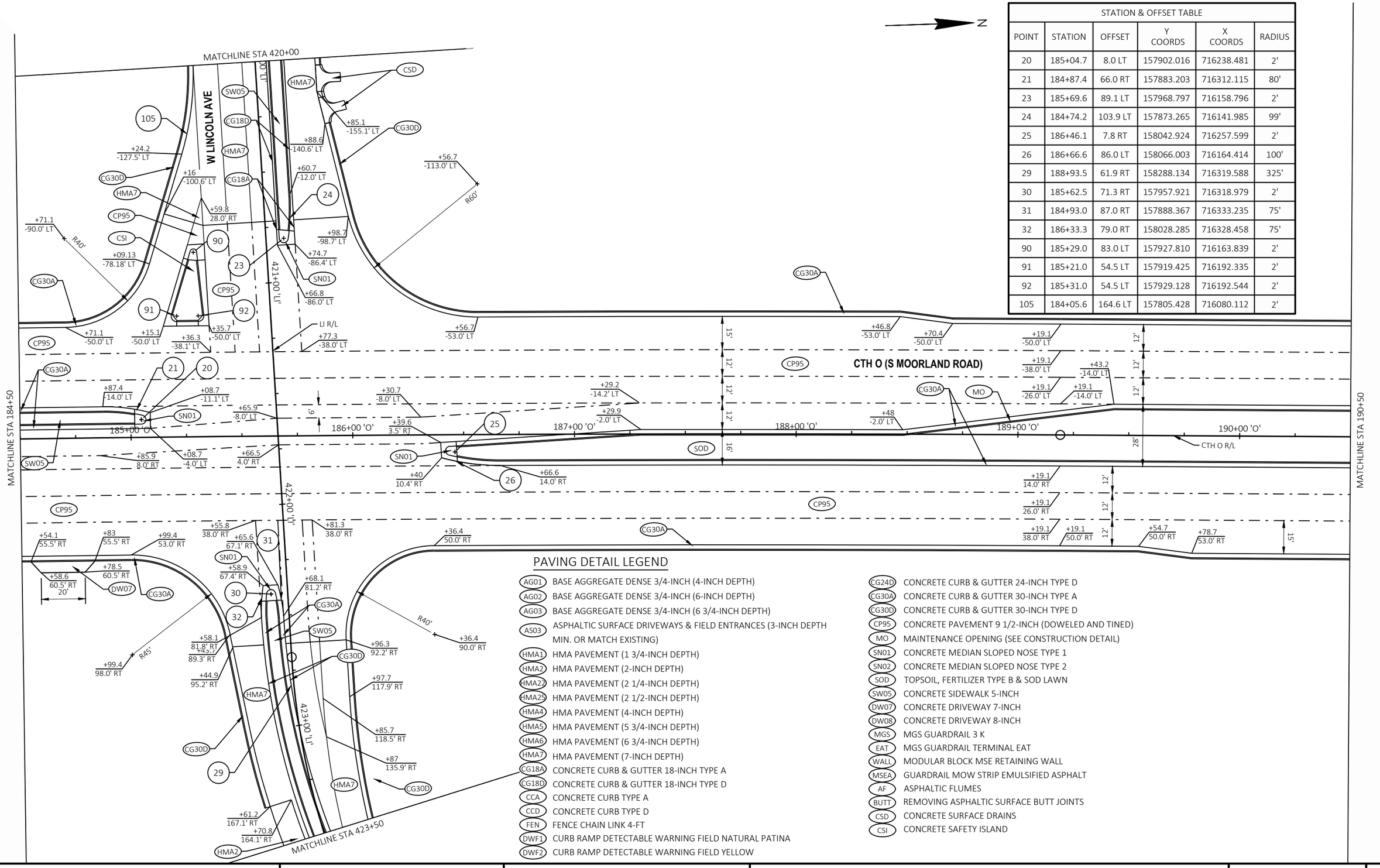
- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
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- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
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- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 59	E

2

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
20	185+04.7	8.0 LT	157902.016	716238.481	2'
21	184+87.4	66.0 RT	157883.203	716312.115	80'
23	185+69.6	89.1 LT	157968.797	716158.796	2'
24	184+74.2	103.9 LT	157873.265	716141.985	99'
25	186+46.1	7.8 RT	158042.924	716257.599	2'
26	186+66.6	86.0 LT	158066.003	716164.414	100'
29	188+93.5	61.9 RT	158288.134	716319.588	325'
30	185+62.5	71.3 RT	157957.921	716318.979	2'
31	184+93.0	87.0 RT	157888.367	716333.235	75'
32	186+33.3	79.0 RT	158028.285	716328.458	75'
90	185+29.0	83.0 LT	157927.810	716163.839	2'
91	185+21.0	54.5 LT	157919.425	716192.335	2'
92	185+31.0	54.5 LT	157929.128	716192.544	2'
105	184+05.6	164.6 LT	157805.428	716080.112	2'



PAVING DETAIL LEGEND

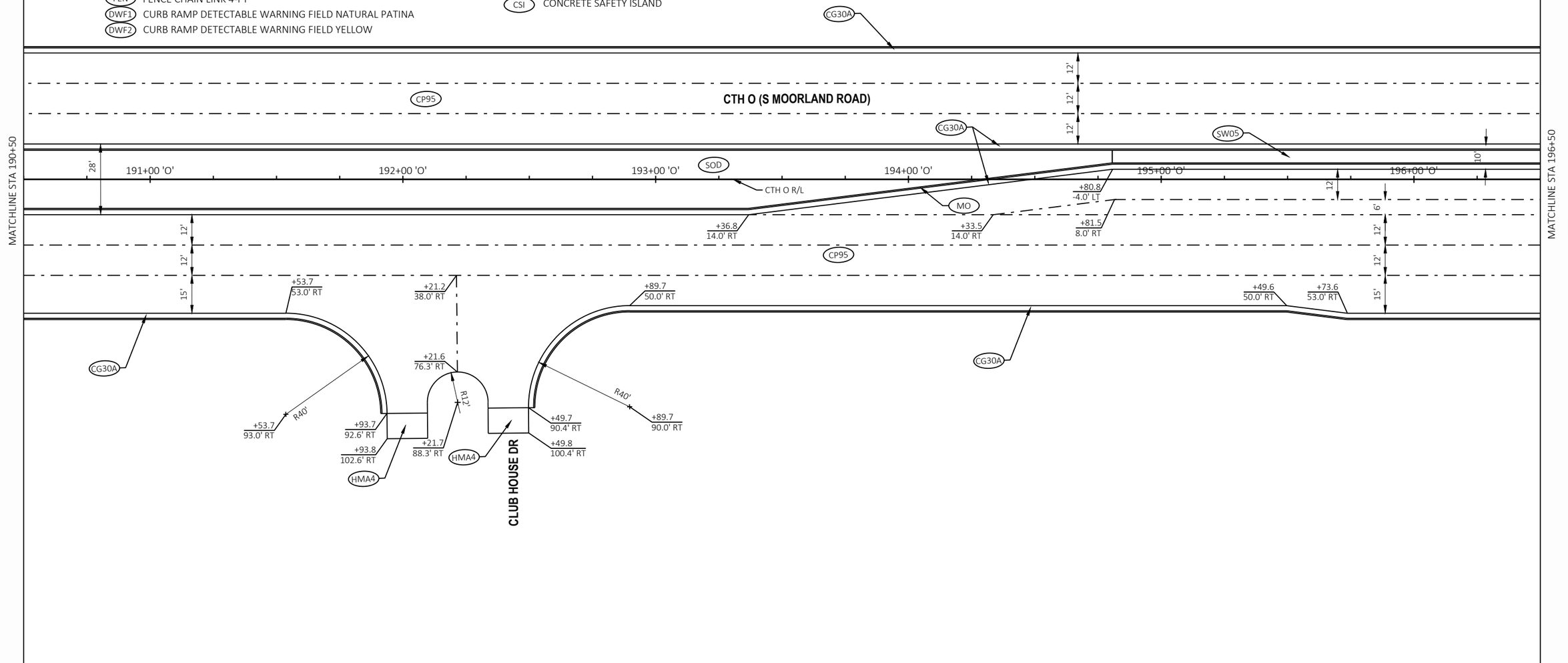
- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
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- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
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- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
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- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
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- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
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- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 60	E

2

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND



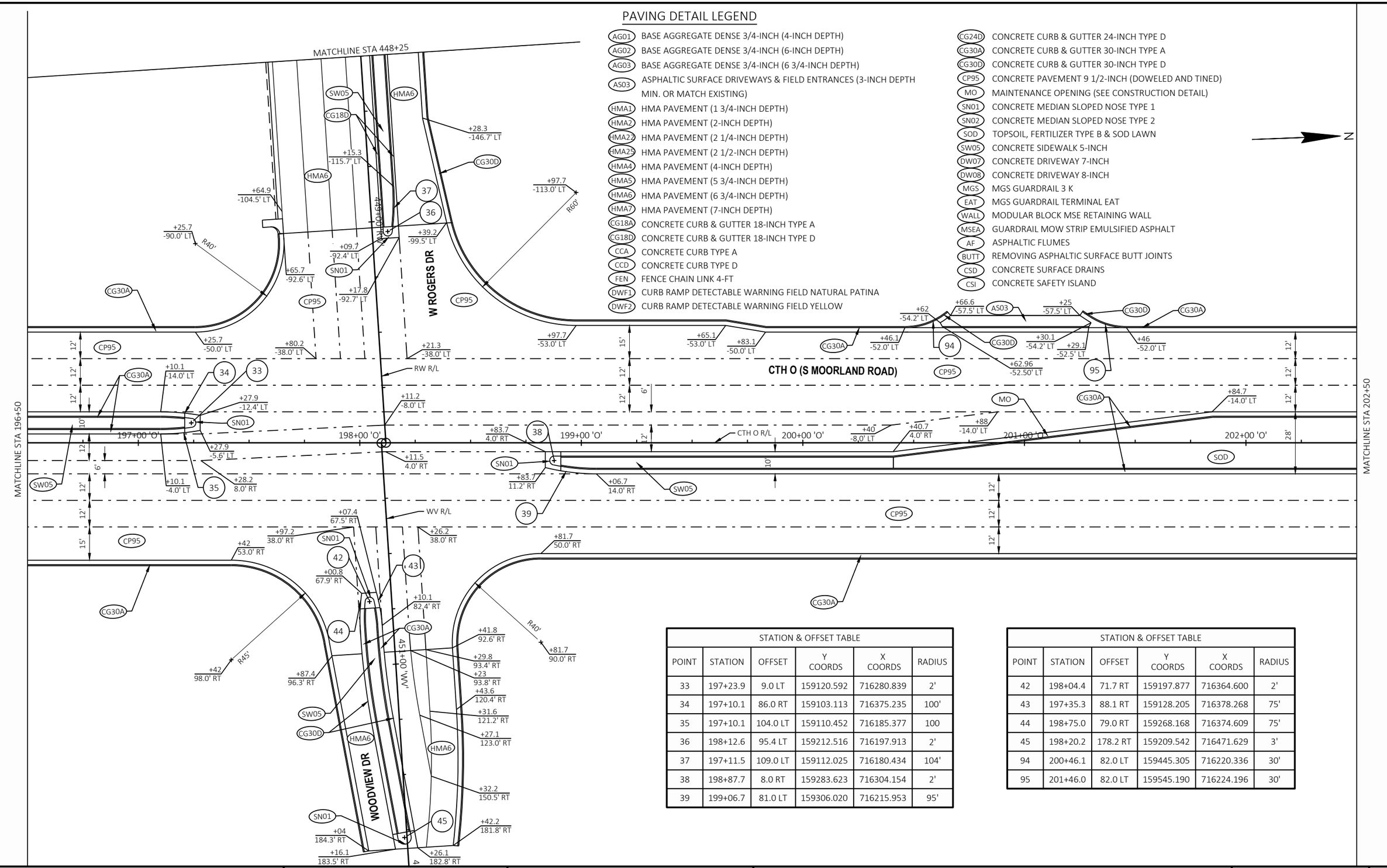
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 61	E

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LAYOUT NAME - 08
PLOT DATE : 4/27/2026 3:02 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND



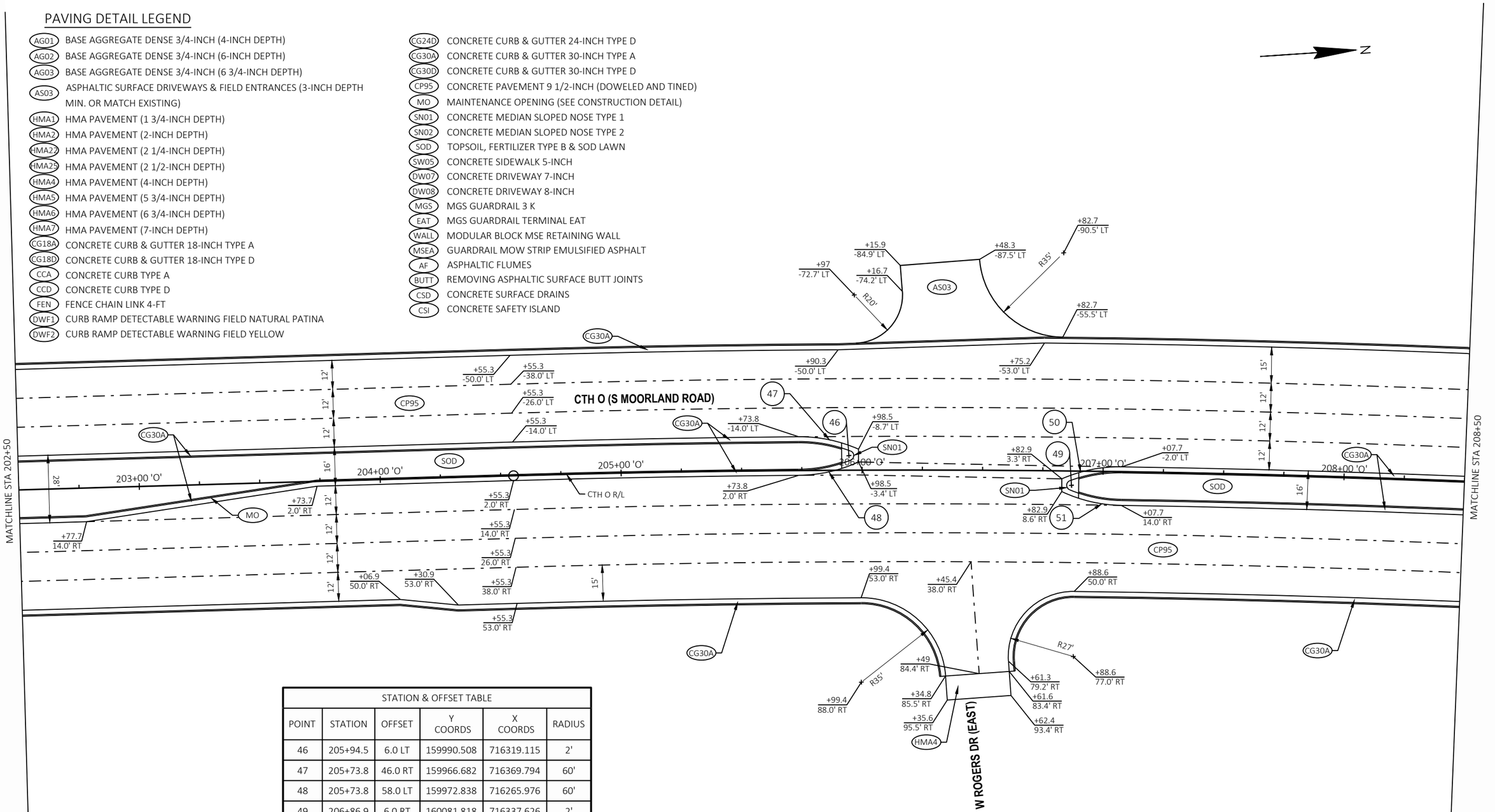
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
33	197+23.9	9.0 LT	159120.592	716280.839	2'
34	197+10.1	86.0 RT	159103.113	716375.235	100'
35	197+10.1	104.0 LT	159110.452	716185.377	100
36	198+12.6	95.4 LT	159212.516	716197.913	2'
37	197+11.5	109.0 LT	159112.025	716180.434	104'
38	198+87.7	8.0 RT	159283.623	716304.154	2'
39	199+06.7	81.0 LT	159306.020	716215.953	95'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
42	198+04.4	71.7 RT	159197.877	716364.600	2'
43	197+35.3	88.1 RT	159128.205	716378.268	75'
44	198+75.0	79.0 RT	159268.168	716374.609	75'
45	198+20.2	178.2 RT	159209.542	716471.629	3'
94	200+46.1	82.0 LT	159445.305	716220.336	30'
95	201+46.0	82.0 LT	159545.190	716224.196	30'

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 62	E

PAVING DETAIL LEGEND

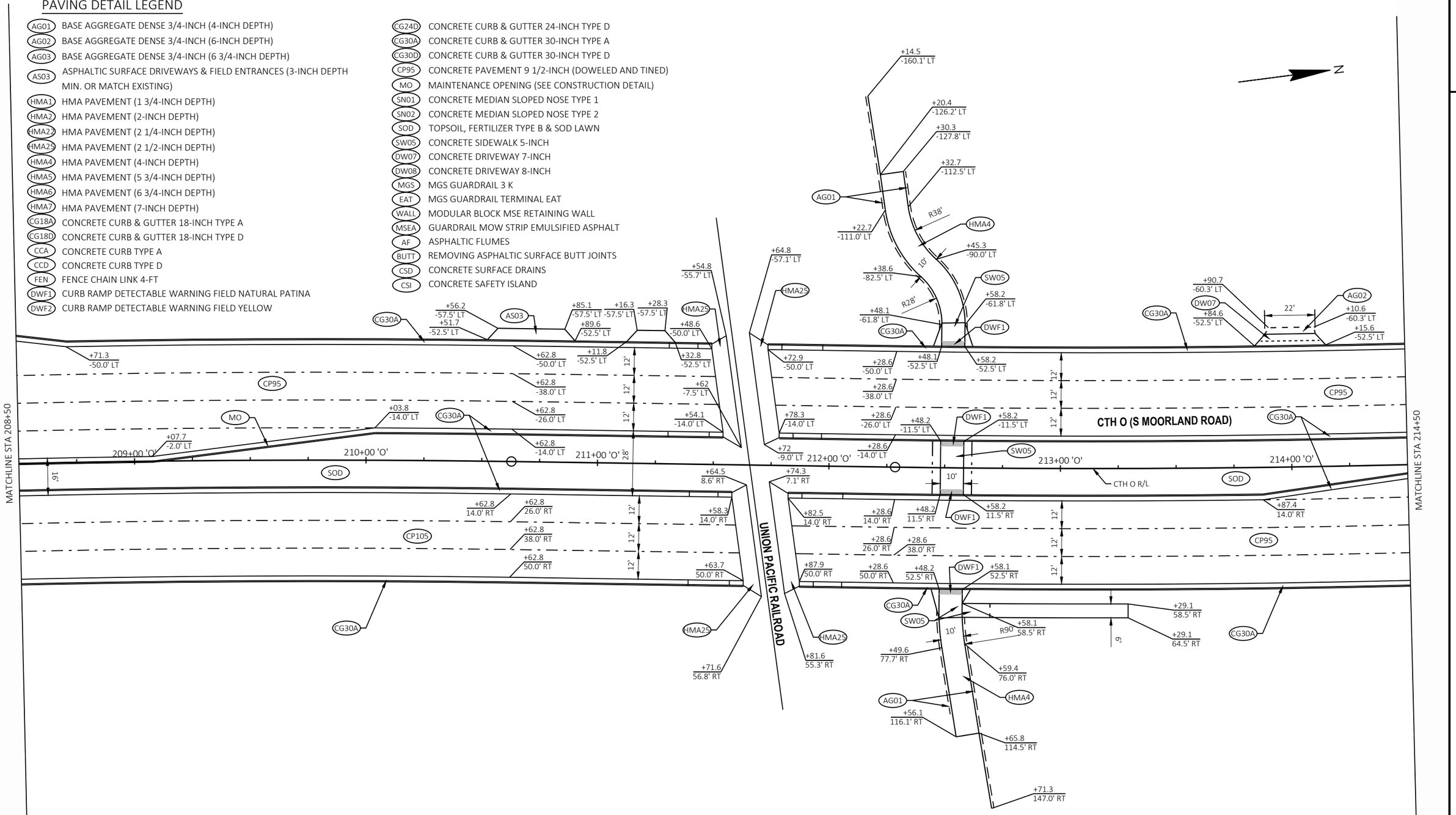
- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
46	205+94.5	6.0 LT	159990.508	716319.115	2'
47	205+73.8	46.0 RT	159966.682	716369.794	60'
48	205+73.8	58.0 LT	159972.838	716265.976	60'
49	206+86.9	6.0 RT	160081.818	716337.626	2'
50	207+07.7	58.0 RT	160098.247	716391.162	60'
51	207+07.7	46.0 LT	160106.818	716287.516	60'

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

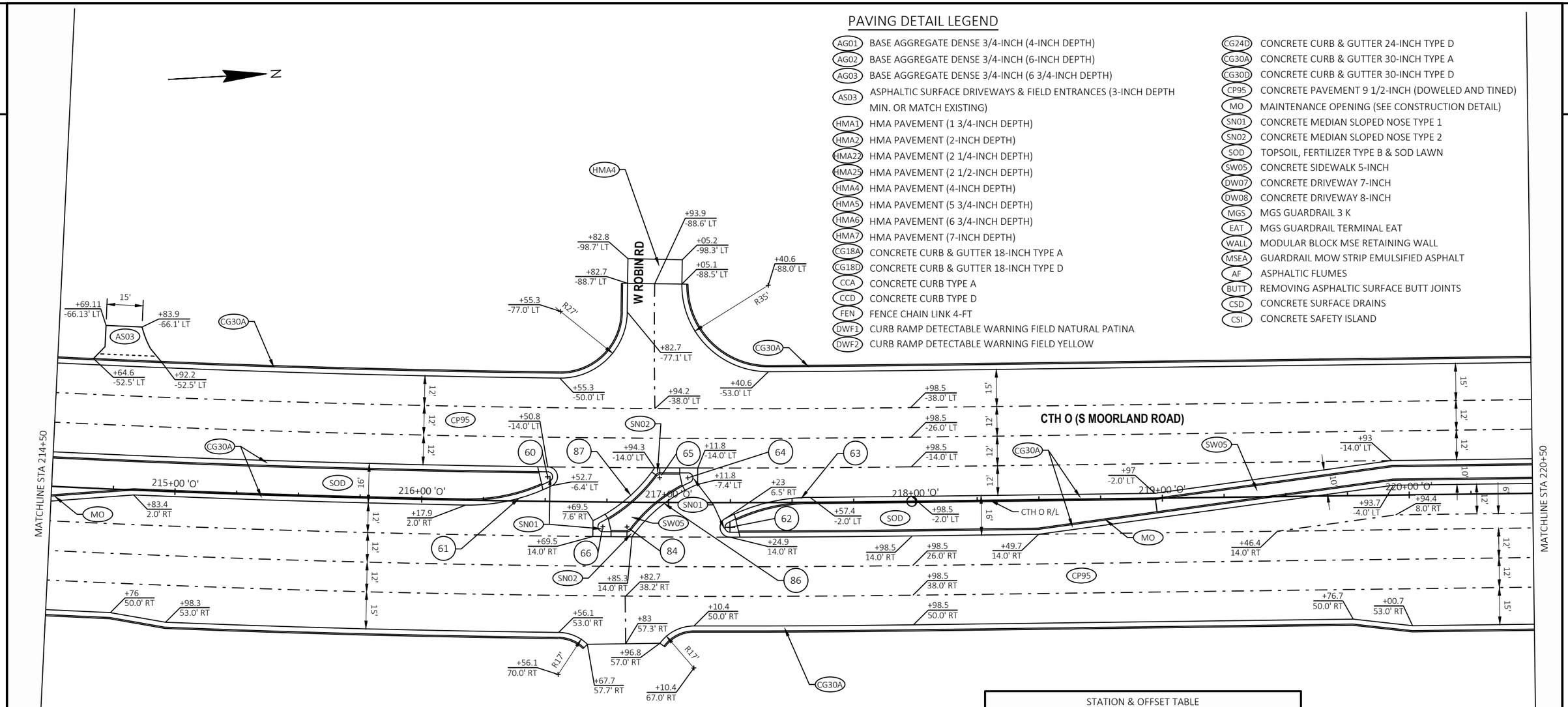


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 64	E

2

PAVING DETAIL LEGEND

AG01	BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
AG02	BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
AG03	BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
AS03	ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
HMA1	HMA PAVEMENT (1 3/4-INCH DEPTH)
HMA2	HMA PAVEMENT (2-INCH DEPTH)
HMA22	HMA PAVEMENT (2 1/4-INCH DEPTH)
HMA25	HMA PAVEMENT (2 1/2-INCH DEPTH)
HMA4	HMA PAVEMENT (4-INCH DEPTH)
HMA5	HMA PAVEMENT (5 3/4-INCH DEPTH)
HMA6	HMA PAVEMENT (6 3/4-INCH DEPTH)
HMA7	HMA PAVEMENT (7-INCH DEPTH)
CG18A	CONCRETE CURB & GUTTER 18-INCH TYPE A
CG18D	CONCRETE CURB & GUTTER 18-INCH TYPE D
CCA	CONCRETE CURB TYPE A
CCD	CONCRETE CURB TYPE D
FEN	FENCE CHAIN LINK 4-FT
DWF1	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
DWF2	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CG24D	CONCRETE CURB & GUTTER 24-INCH TYPE D
CG30A	CONCRETE CURB & GUTTER 30-INCH TYPE A
CG30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
CP95	CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
MO	MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
SN01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
SN02	CONCRETE MEDIAN SLOPED NOSE TYPE 2
SOD	TOPSOIL, FERTILIZER TYPE B & SOD LAWN
SW05	CONCRETE SIDEWALK 5-INCH
DW07	CONCRETE DRIVEWAY 7-INCH
DW08	CONCRETE DRIVEWAY 8-INCH
MGS	MGS GUARDRAIL 3 K
EAT	MGS GUARDRAIL TERMINAL EAT
WALL	MODULAR BLOCK MSE RETAINING WALL
MSEA	GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
AF	ASPHALTIC FLUMES
BUTT	REMOVING ASPHALTIC SURFACE BUTT JOINTS
CSD	CONCRETE SURFACE DRAINS
CSI	CONCRETE SAFETY ISLAND

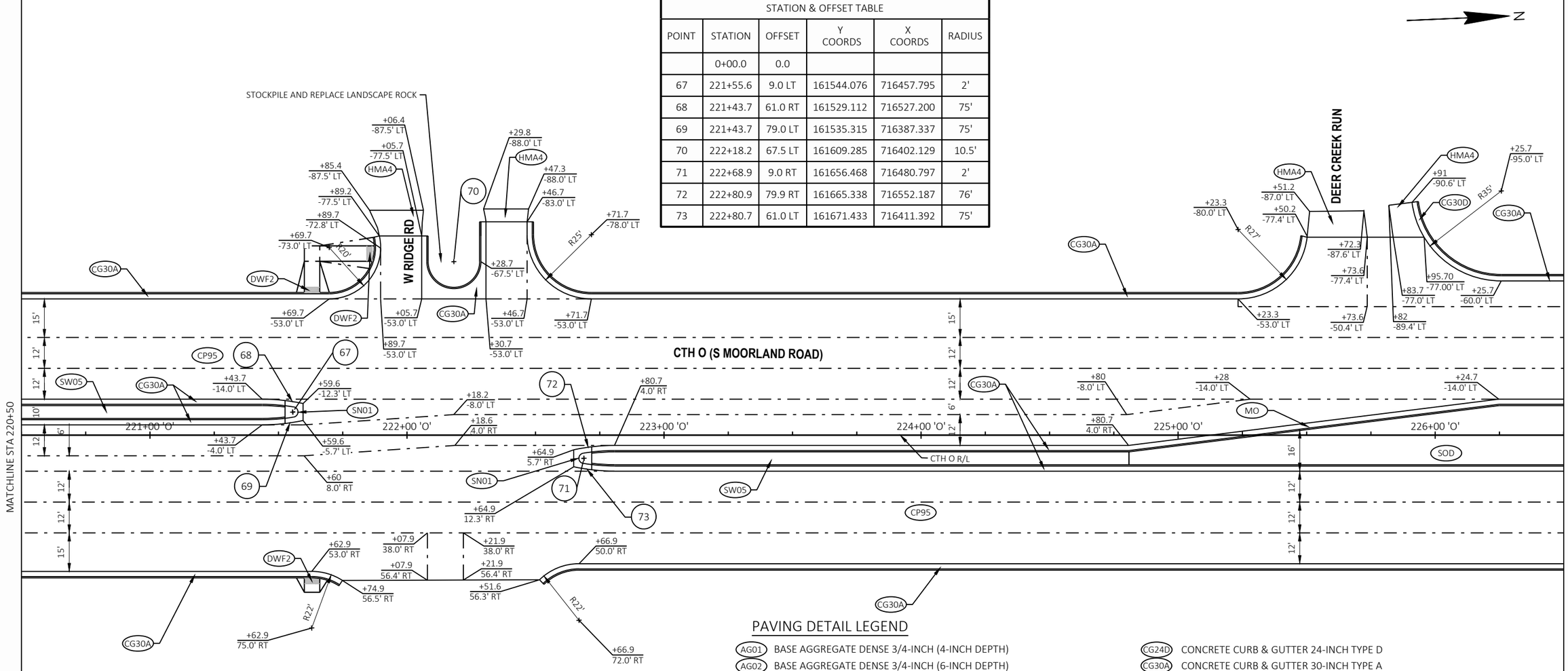


STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
60	216+50.8	10.0 LT	161040.262	716432.540	2'
61	216+17.9	73.0 LT	161012.208	716367.317	75'
62	217+37.5	10.0 RT	161112.847	716457.212	2'
63	217+70.0	73.0 RT	161154.872	716522.542	75'
64	217+15.5	10.0 LT	161096.962	716436.243	2'
65	216+96.4	10.0 LT	161085.596	716435.546	2'
66	216+73.4	10.0 RT	161061.455	716454.035	2'
84	216+92.9	10.0 RT	161071.214	716454.674	2'
86	217+35.0	49.0 RT	161120.782	716496.721	61'
87	216+41.6	49.0 LT	161033.850	716392.985	63'

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 65	E

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
	0+00.0	0.0			
67	221+55.6	9.0 LT	161544.076	716457.795	2'
68	221+43.7	61.0 RT	161529.112	716527.200	75'
69	221+43.7	79.0 LT	161535.315	716387.337	75'
70	222+18.2	67.5 LT	161609.285	716402.129	10.5'
71	222+68.9	9.0 RT	161656.468	716480.797	2'
72	222+80.9	79.9 RT	161665.338	716552.187	76'
73	222+80.7	61.0 LT	161671.433	716411.392	75'



PAVING DETAIL LEGEND

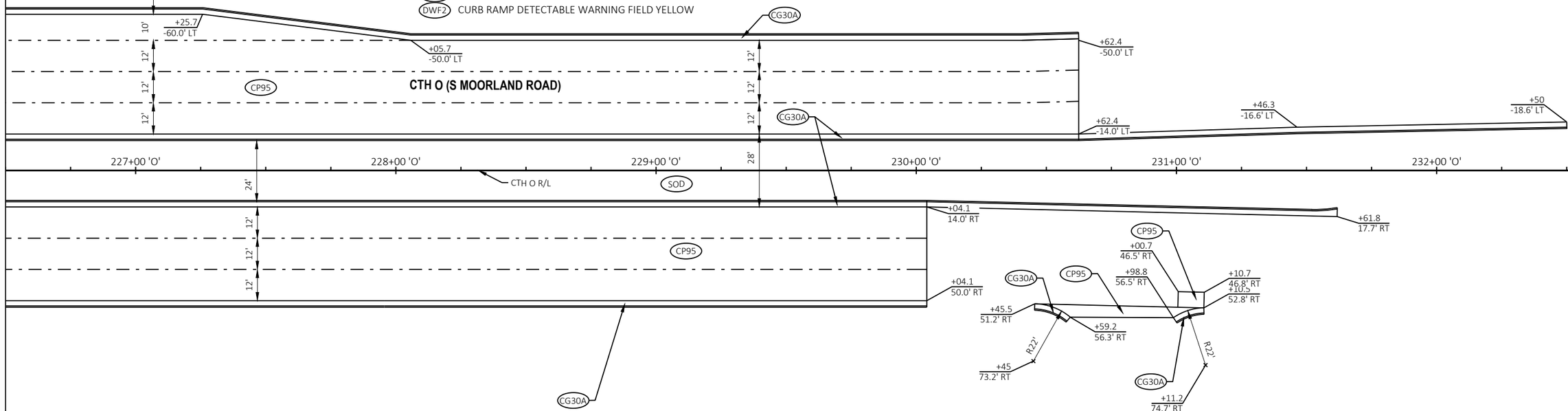
- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 66	E

2

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
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- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
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- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
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- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

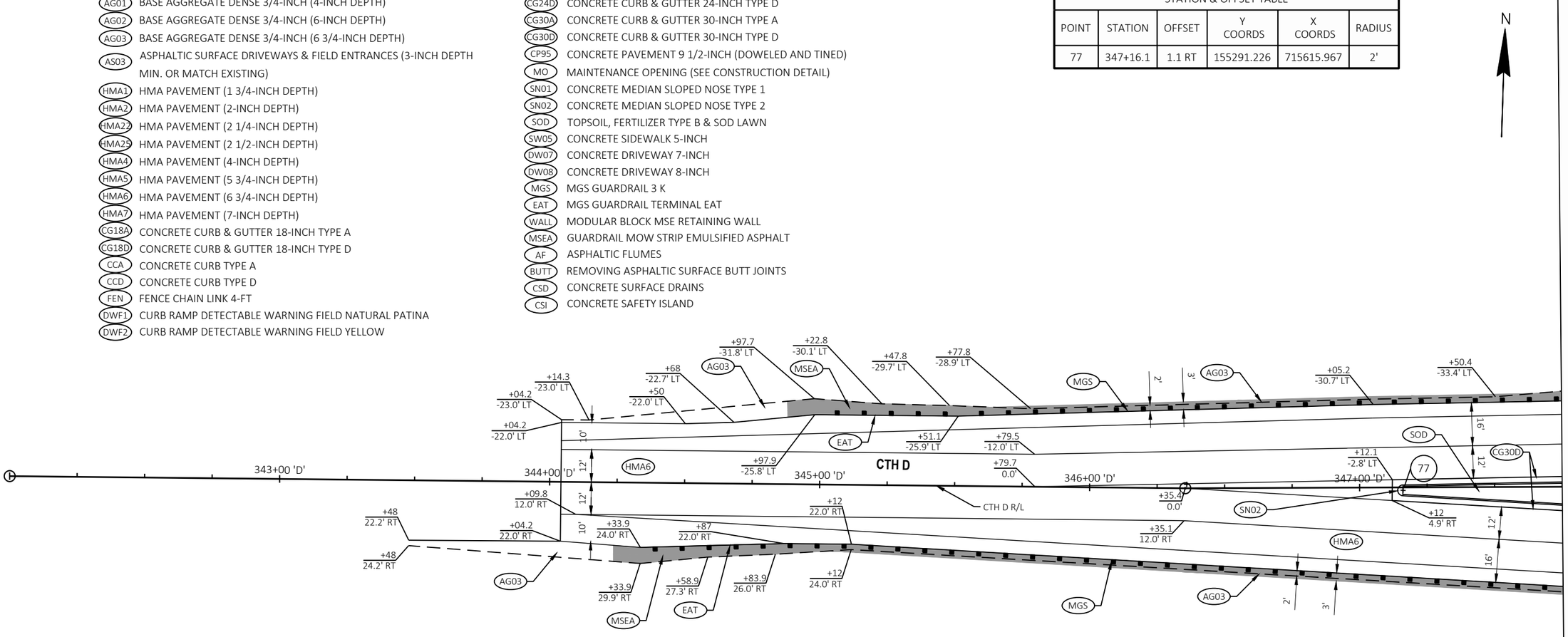


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS	SHEET 67	E

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

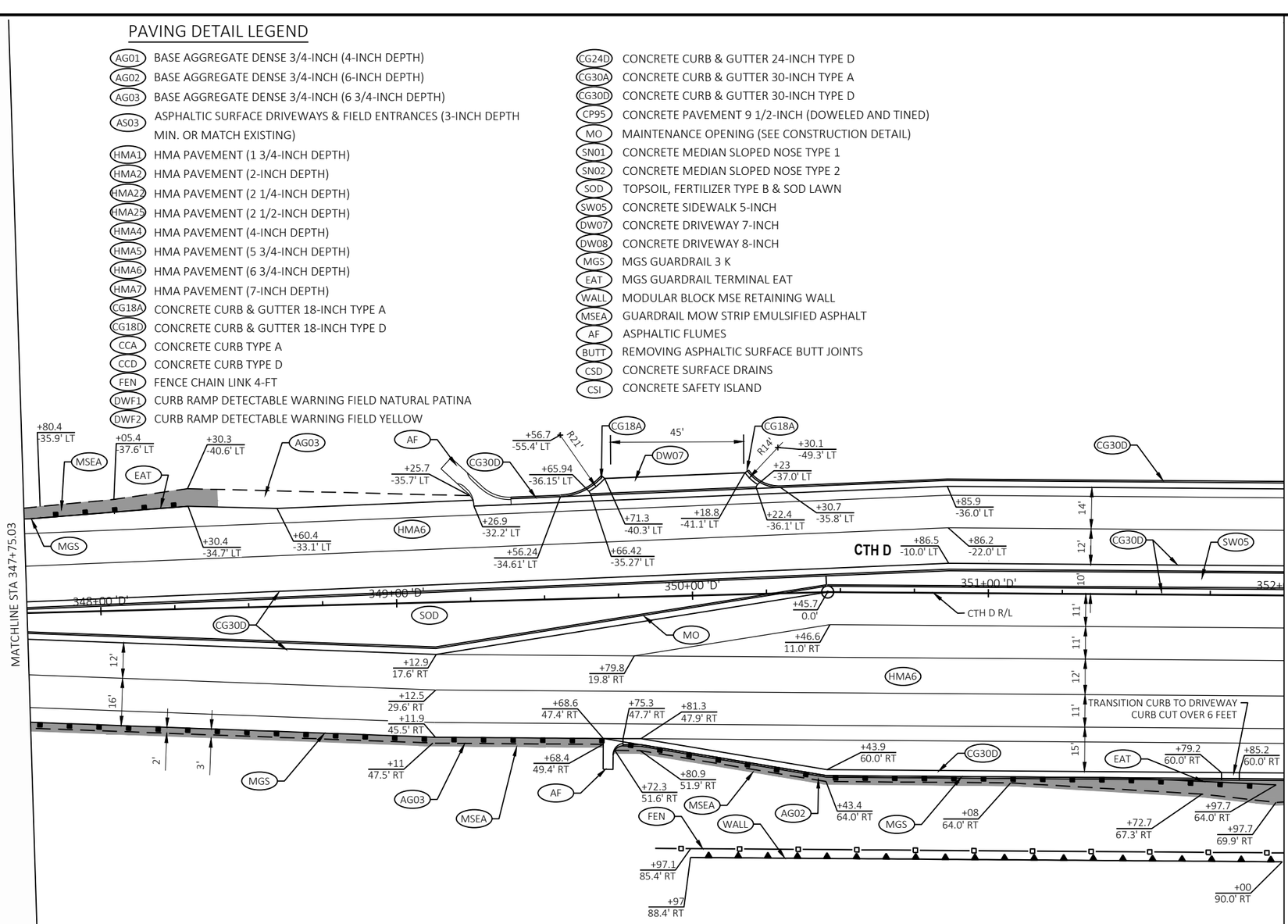
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
77	347+16.1	1.1 RT	155291.226	715615.967	2'



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS - CTH D	SHEET 68	E

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

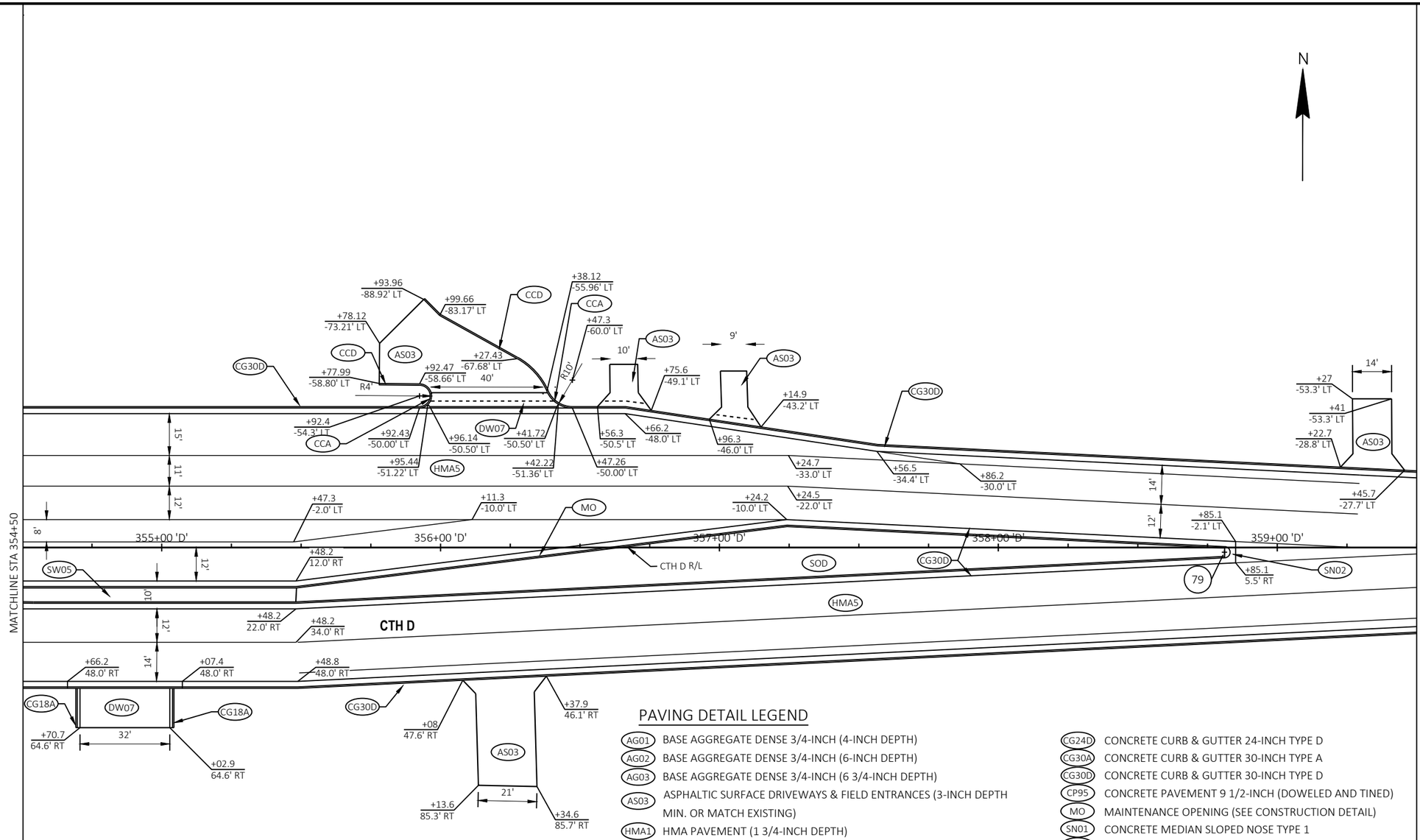


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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS - CTH D	SHEET 69	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021201-PD.DWG
LAYOUT NAME - 18-D
PLOT DATE : 4/28/2026 7:55 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
79	358+81.1	1.7 RT	155304.851	716780.703	2'

PAVING DETAIL LEGEND

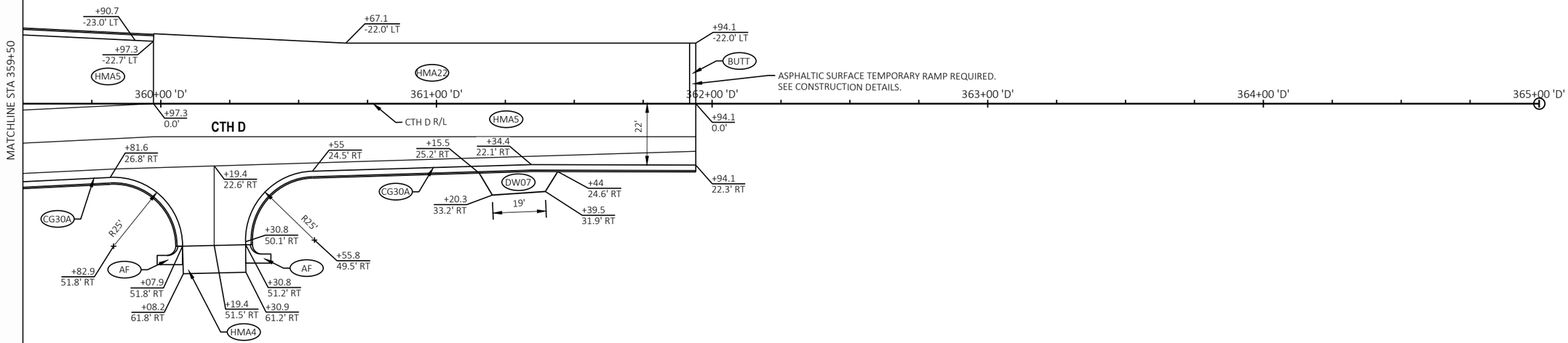
- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP9S CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS - CTH D	SHEET 70	E

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

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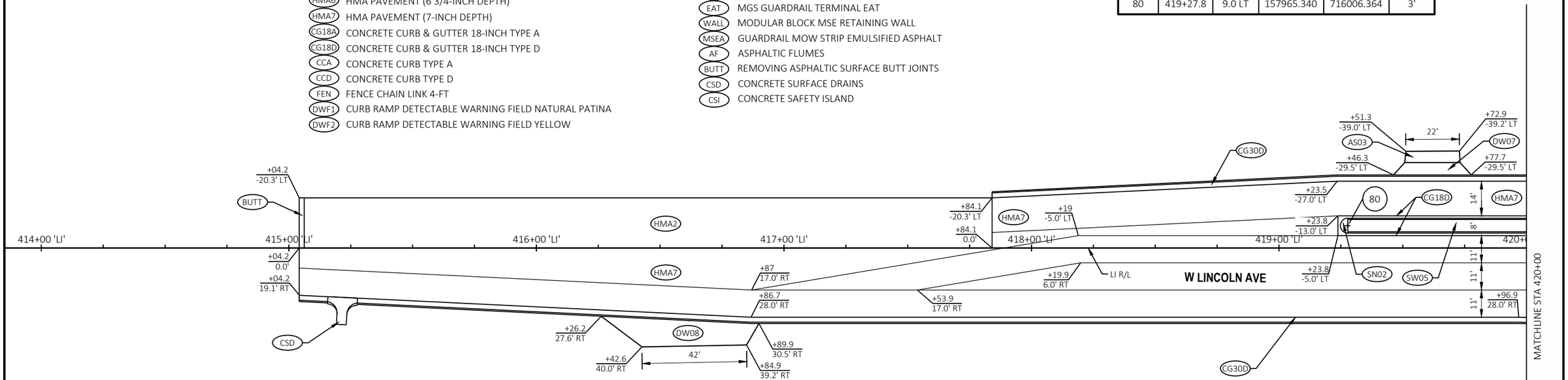
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS - CTH D	SHEET 71	E

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

N

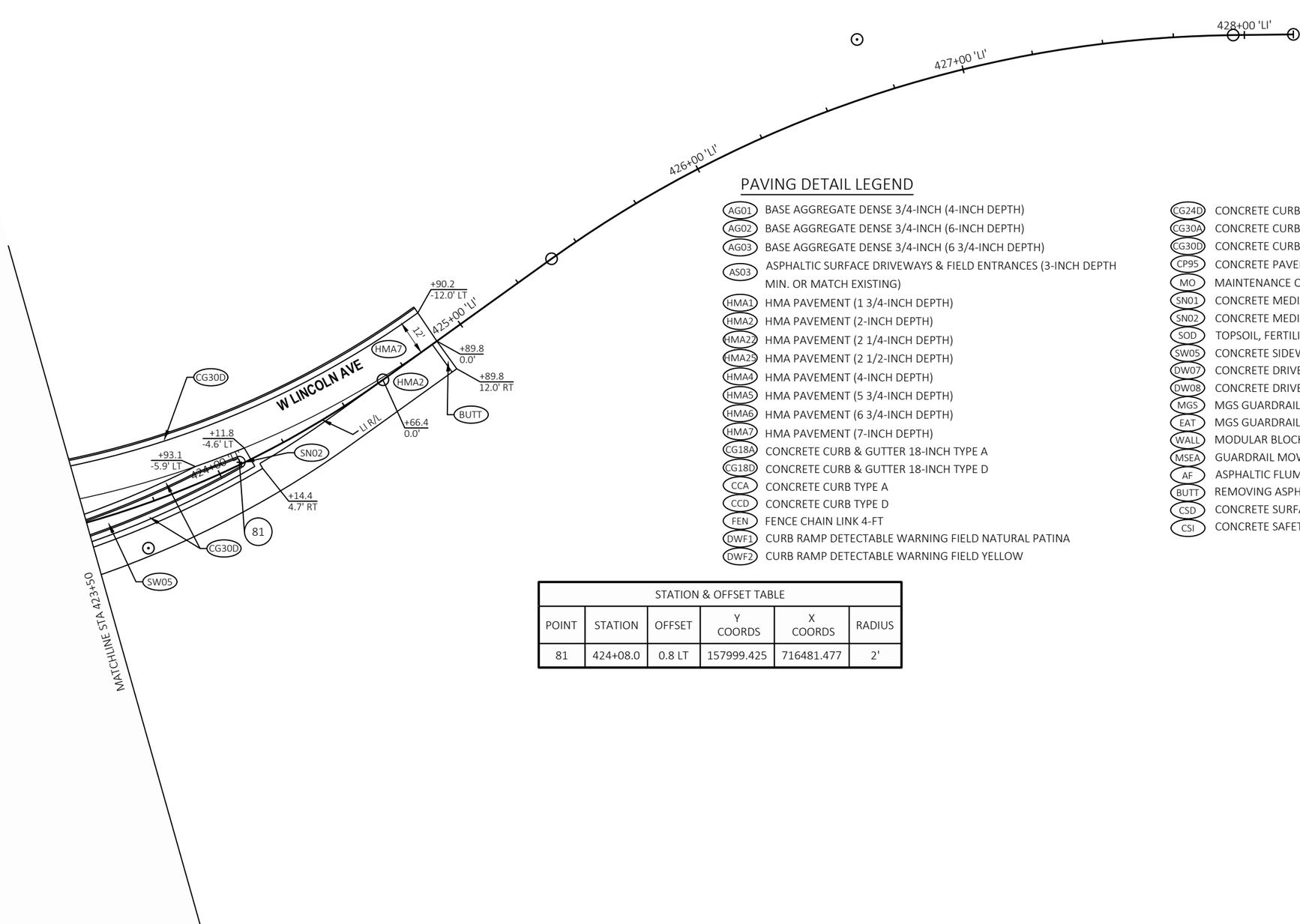
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
80	419+27.8	9.0 LT	157965.340	716006.364	3'



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS -W LINCOLN AVE	SHEET 72	E

2

N



PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND

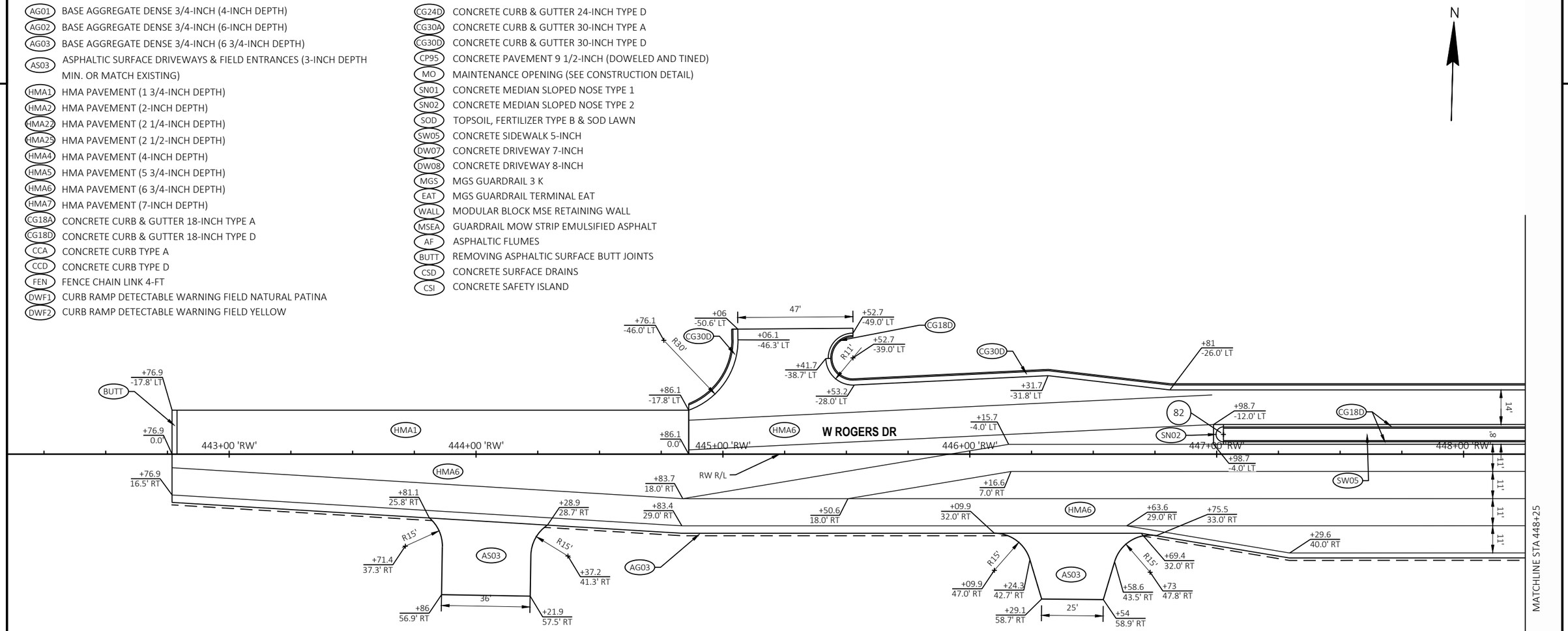
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
81	424+08.0	0.8 LT	157999.425	716481.477	2'

2

PAVING DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH (4-INCH DEPTH)
- AG02 BASE AGGREGATE DENSE 3/4-INCH (6-INCH DEPTH)
- AG03 BASE AGGREGATE DENSE 3/4-INCH (6 3/4-INCH DEPTH)
- AS03 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (3-INCH DEPTH MIN. OR MATCH EXISTING)
- HMA1 HMA PAVEMENT (1 3/4-INCH DEPTH)
- HMA2 HMA PAVEMENT (2-INCH DEPTH)
- HMA22 HMA PAVEMENT (2 1/4-INCH DEPTH)
- HMA25 HMA PAVEMENT (2 1/2-INCH DEPTH)
- HMA4 HMA PAVEMENT (4-INCH DEPTH)
- HMA5 HMA PAVEMENT (5 3/4-INCH DEPTH)
- HMA6 HMA PAVEMENT (6 3/4-INCH DEPTH)
- HMA7 HMA PAVEMENT (7-INCH DEPTH)
- CG18A CONCRETE CURB & GUTTER 18-INCH TYPE A
- CG18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CCA CONCRETE CURB TYPE A
- CCD CONCRETE CURB TYPE D
- FEN FENCE CHAIN LINK 4-FT
- DWF1 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- DWF2 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CG24D CONCRETE CURB & GUTTER 24-INCH TYPE D
- CG30A CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- CP95 CONCRETE PAVEMENT 9 1/2-INCH (DOWELED AND TINED)
- MO MAINTENANCE OPENING (SEE CONSTRUCTION DETAIL)
- SN01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- SN02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- SOD TOPSOIL, FERTILIZER TYPE B & SOD LAWN
- SW05 CONCRETE SIDEWALK 5-INCH
- DW07 CONCRETE DRIVEWAY 7-INCH
- DW08 CONCRETE DRIVEWAY 8-INCH
- MGS MGS GUARDRAIL 3 K
- EAT MGS GUARDRAIL TERMINAL EAT
- WALL MODULAR BLOCK MSE RETAINING WALL
- MSEA GUARDRAIL MOW STRIP EMULSIFIED ASPHALT
- AF ASPHALTIC FLUMES
- BUTT REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CSD CONCRETE SURFACE DRAINS
- CSI CONCRETE SAFETY ISLAND



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
82	447+02.7	8.0 LT	159208.234	715995.849	3'

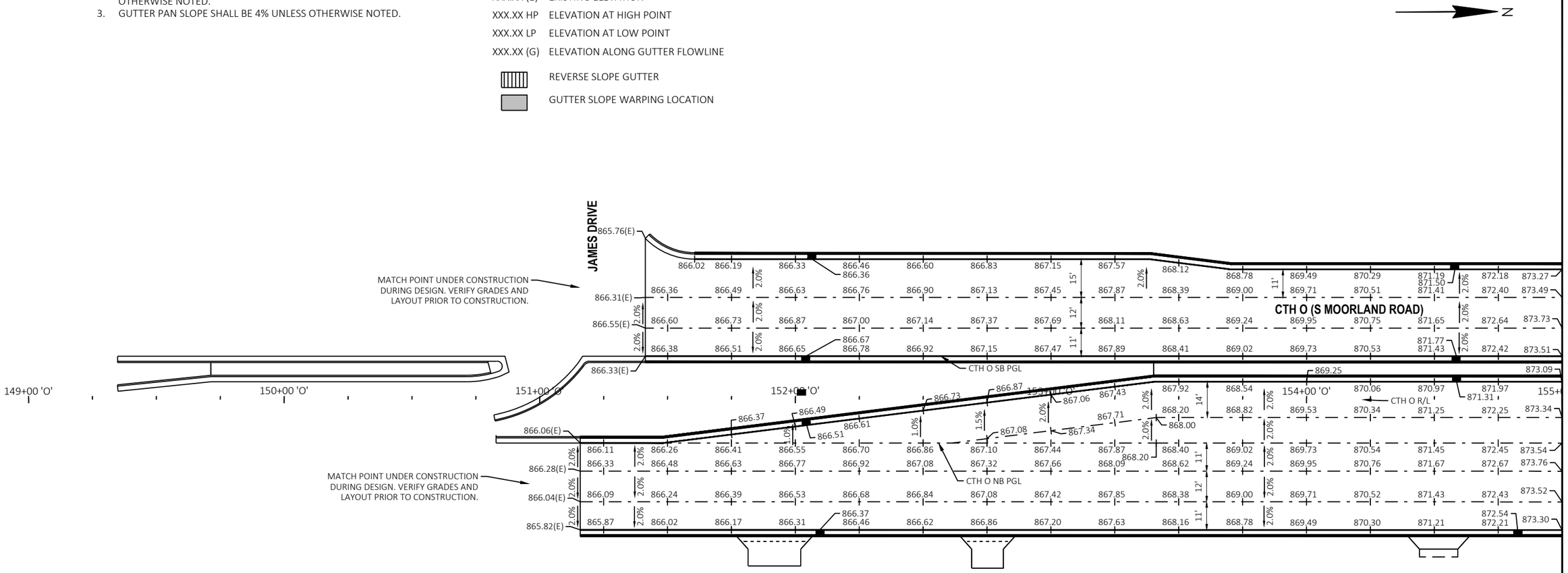
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING DETAILS -W ROGERS DR	SHEET 74	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021201-PD.DWG
LAYOUT NAME - 24-RW
PLOT DATE : 5/18/2026 4:13 PM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION



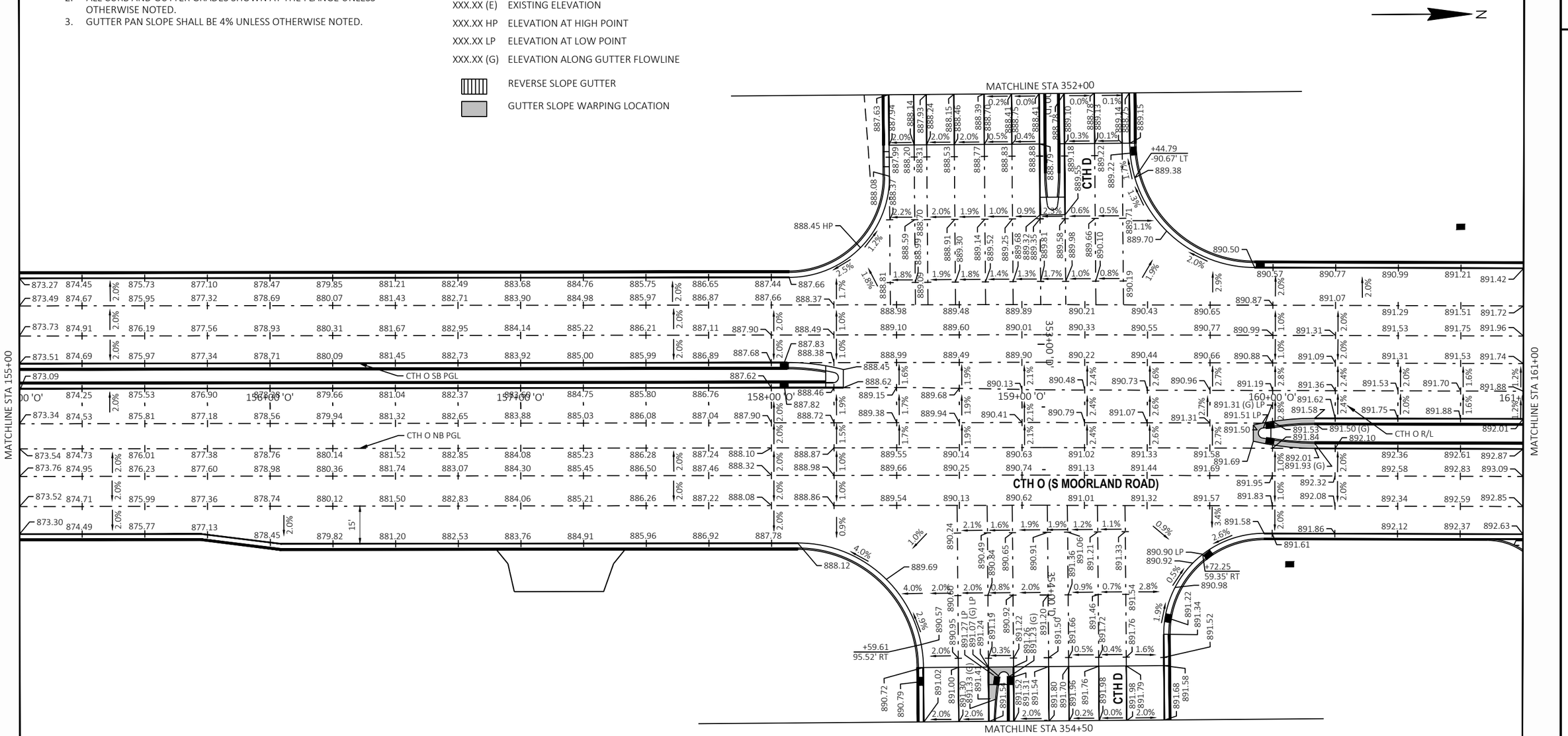
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 75 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021200-PG.DWG
LAYOUT NAME - 01
PLOT DATE : 7/22/2026 7:18 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 76 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021200-PG.DWG
LAYOUT NAME - 02
PLOT DATE : 7/22/2026 7:19 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

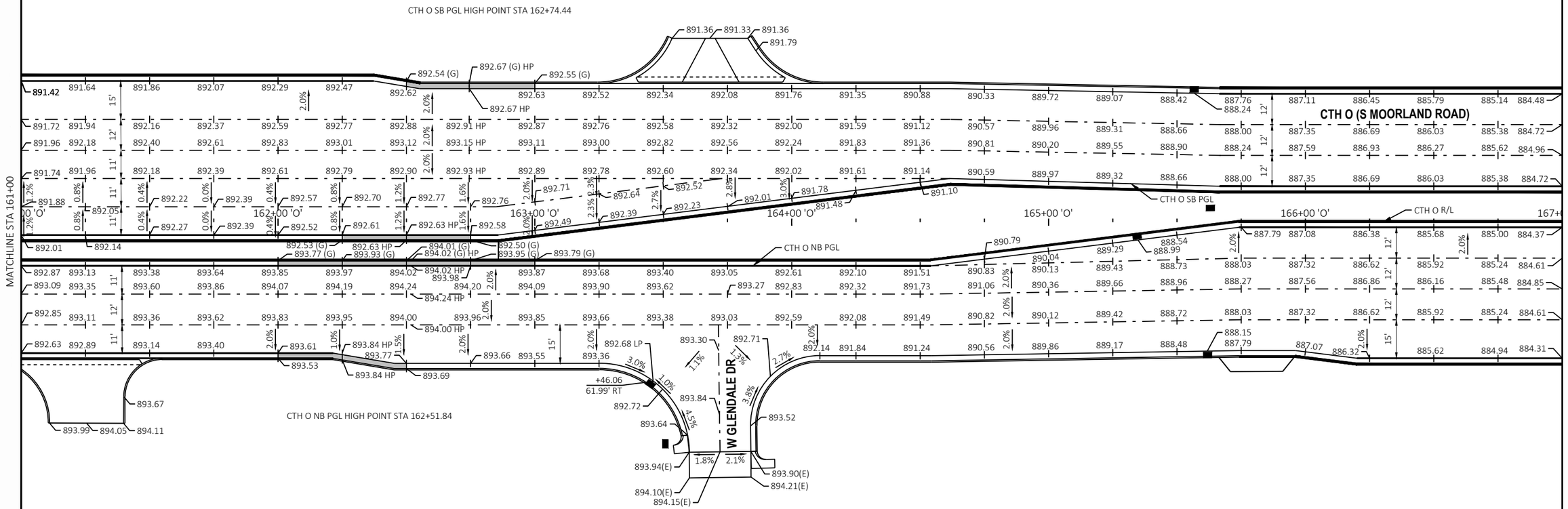
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NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION

N



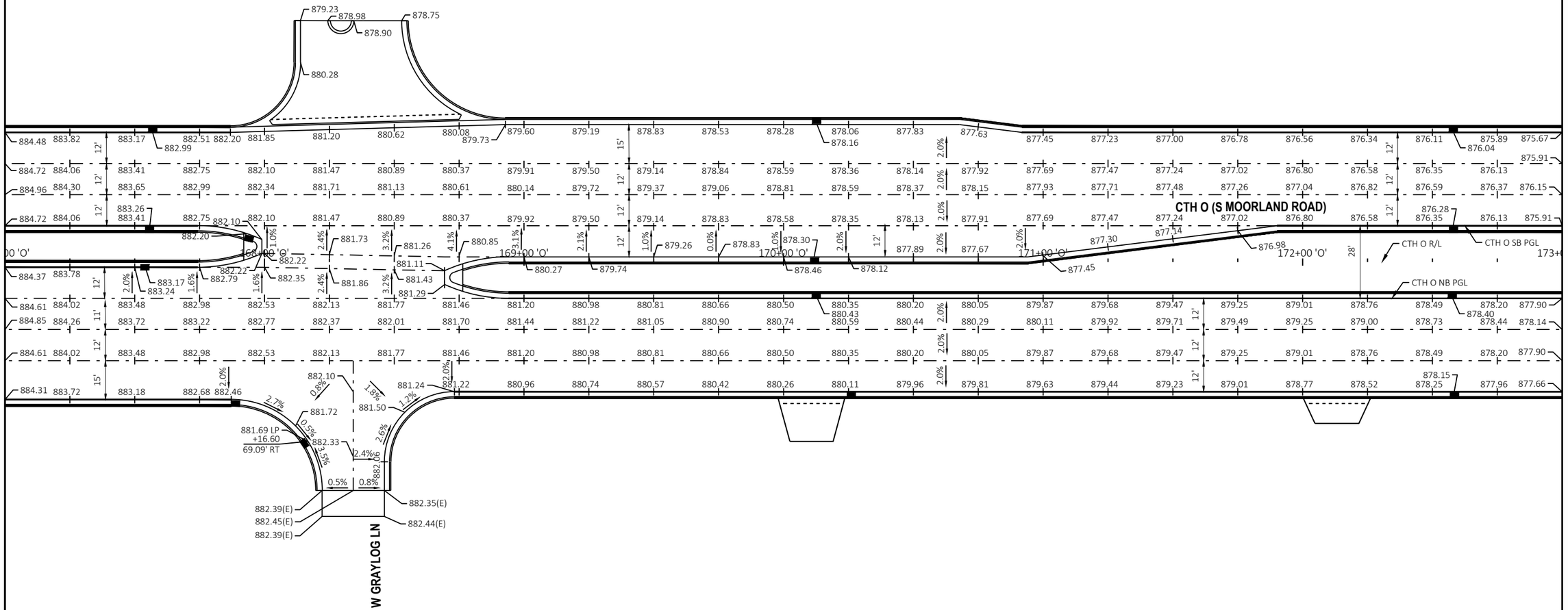
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 77	E

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION

N



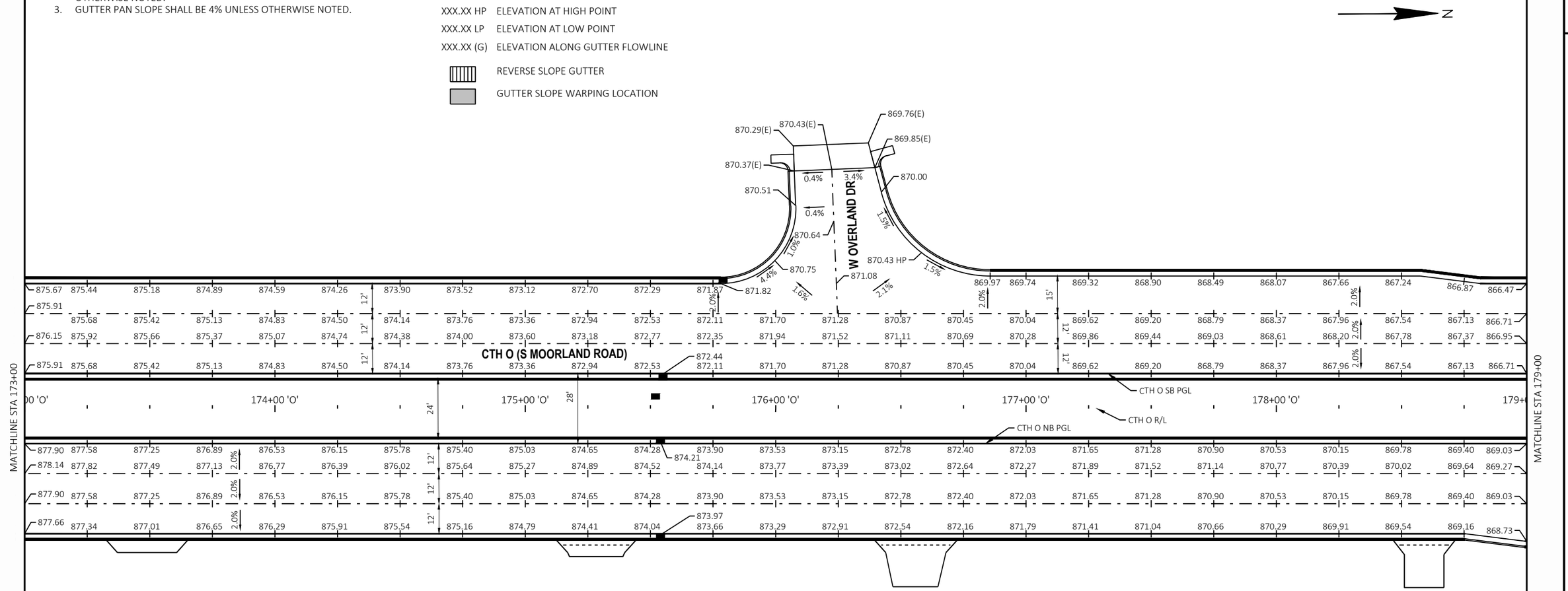
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 78	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021200-PG.DWG
LAYOUT NAME - 04
PLOT DATE : 7/22/2026 7:19 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION



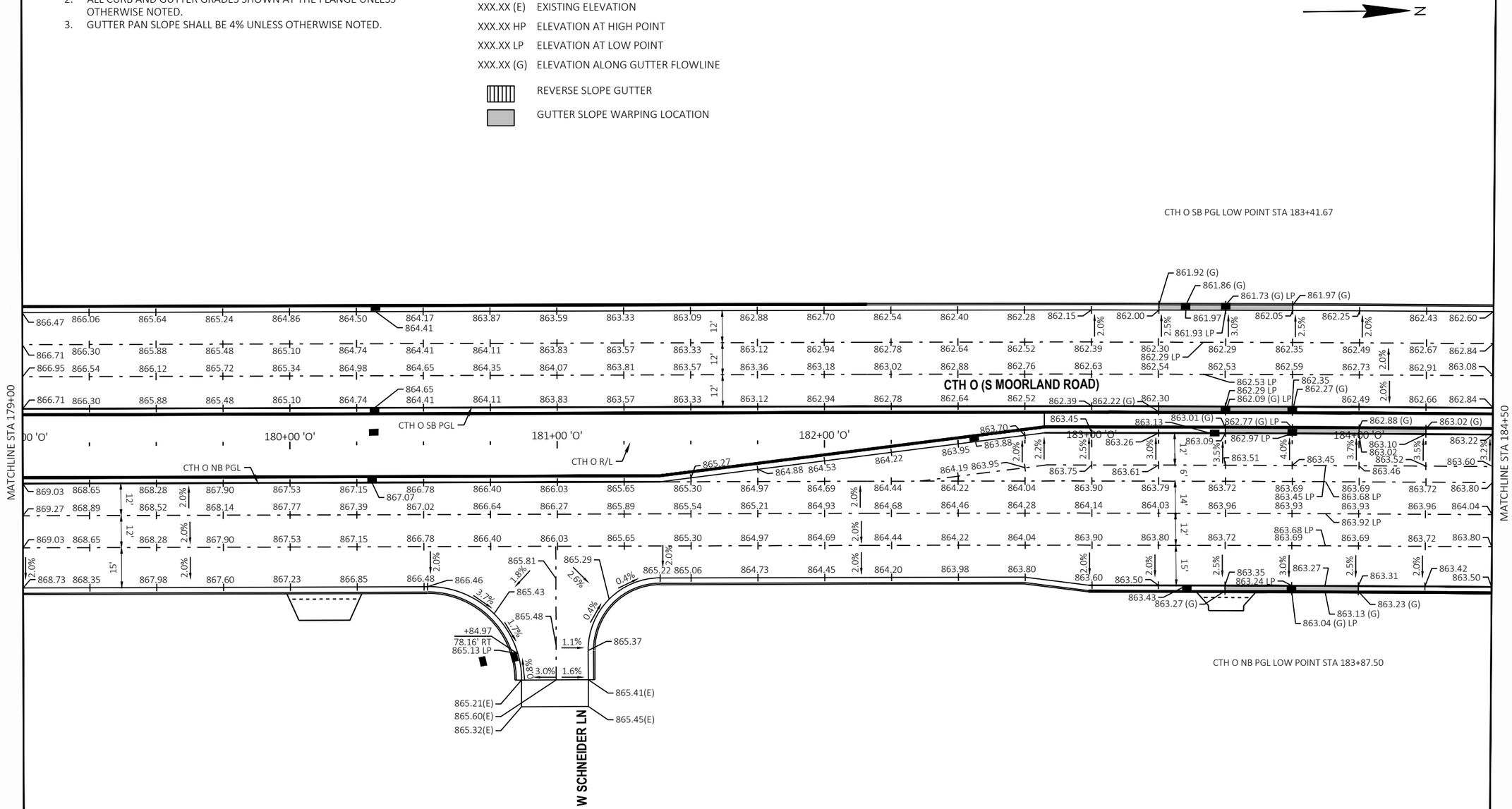
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 79 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021200-PG.DWG
LAYOUT NAME - 05
PLOT DATE : 7/22/2026 7:19 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION



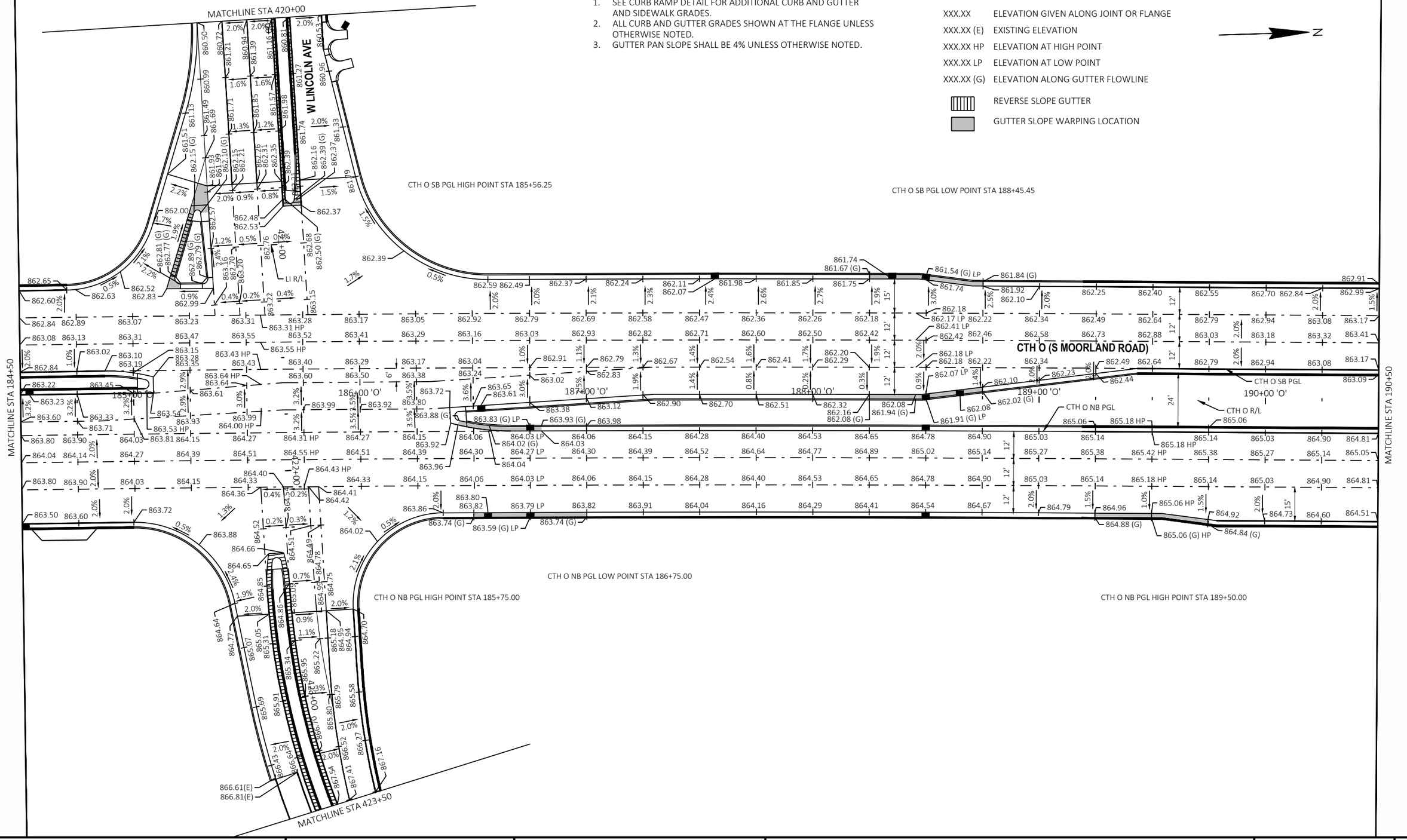
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 80	E

2

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION



NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION

N

CTH O SB PGL HIGH POINT STA 190+75.00

CTH O SB PGL LOW POINT STA 192+64.67

MATCHLINE STA 190+50

MATCHLINE STA 196+50

CTH O (S MOORLAND ROAD)

CTH O SB PGL

CTH O NB PGL

CTH O R/L

191+00 'O'

192+00 'O'

193+00 'O'

194+00 'O'

195+00 'O'

196+00 'O'

28'

CLUB HOUSE DR

+92.38
82.75' RT

CTH O NB PGL LOW POINT STA 190+75.00

CTH O NB PGL HIGH POINT STA 193+50.00

CTH O NB PGL LOW POINT STA 193+43.48

CTH O NB PGL HIGH POINT STA 195+79.89

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 82	E

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION

N

MATCHLINE STA 448+25

W ROGERS DR

CTH O (S MOORLAND ROAD)

RG R/L

WV R/L

CTH O R/L

CTH O SB PGL

CTH O NB PGL

WOODVIEW DR

CTH O NB PGL LOW POINT STA 196+75.00

MATCHLINE STA 196+50

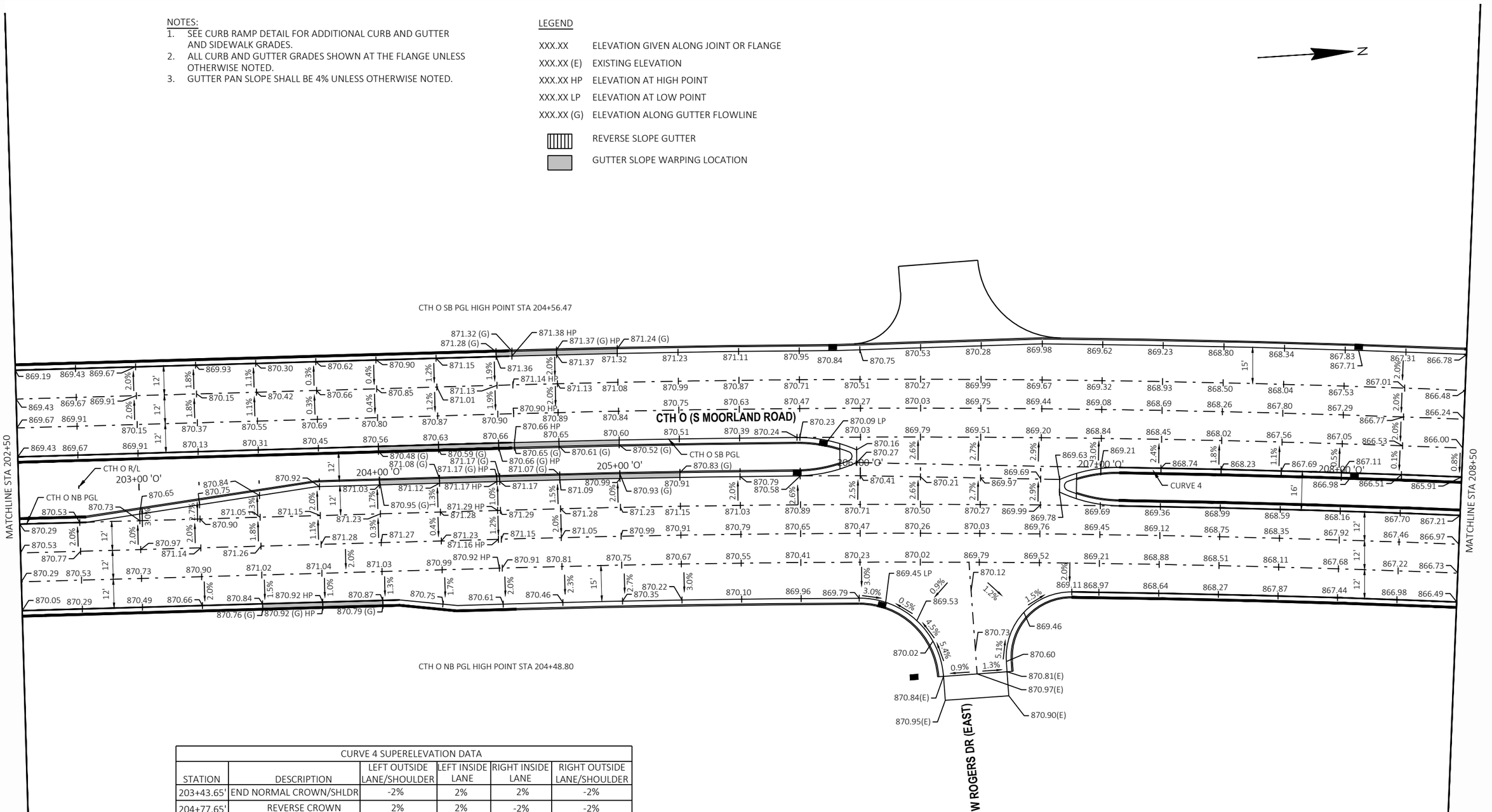
MATCHLINE STA 202+50

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 83 E

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION



CURVE 4 SUPERELEVATION DATA					
STATION	DESCRIPTION	LEFT OUTSIDE LANE/SHOULDER	LEFT INSIDE LANE	RIGHT INSIDE LANE	RIGHT OUTSIDE LANE/SHOULDER
203+43.65'	END NORMAL CROWN/SHLDR	-2%	2%	2%	-2%
204+77.65'	REVERSE CROWN	2%	2%	-2%	-2%
210+40.45'	REVERSE CROWN	2%	2%	-2%	-2%

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION



CURVE 4 SUPERELEVATION DATA

STATION	DESCRIPTION	LEFT OUTSIDE LANE/SHOULDER	LEFT INSIDE LANE	RIGHT INSIDE LANE	RIGHT OUTSIDE LANE/SHOULDER
203+43.65'	END NORMAL CROWN/SHLDR	-2%	2%	2%	-2%
204+77.65'	REVERSE CROWN	2%	2%	-2%	-2%
210+40.45'	REVERSE CROWN	2%	2%	-2%	-2%

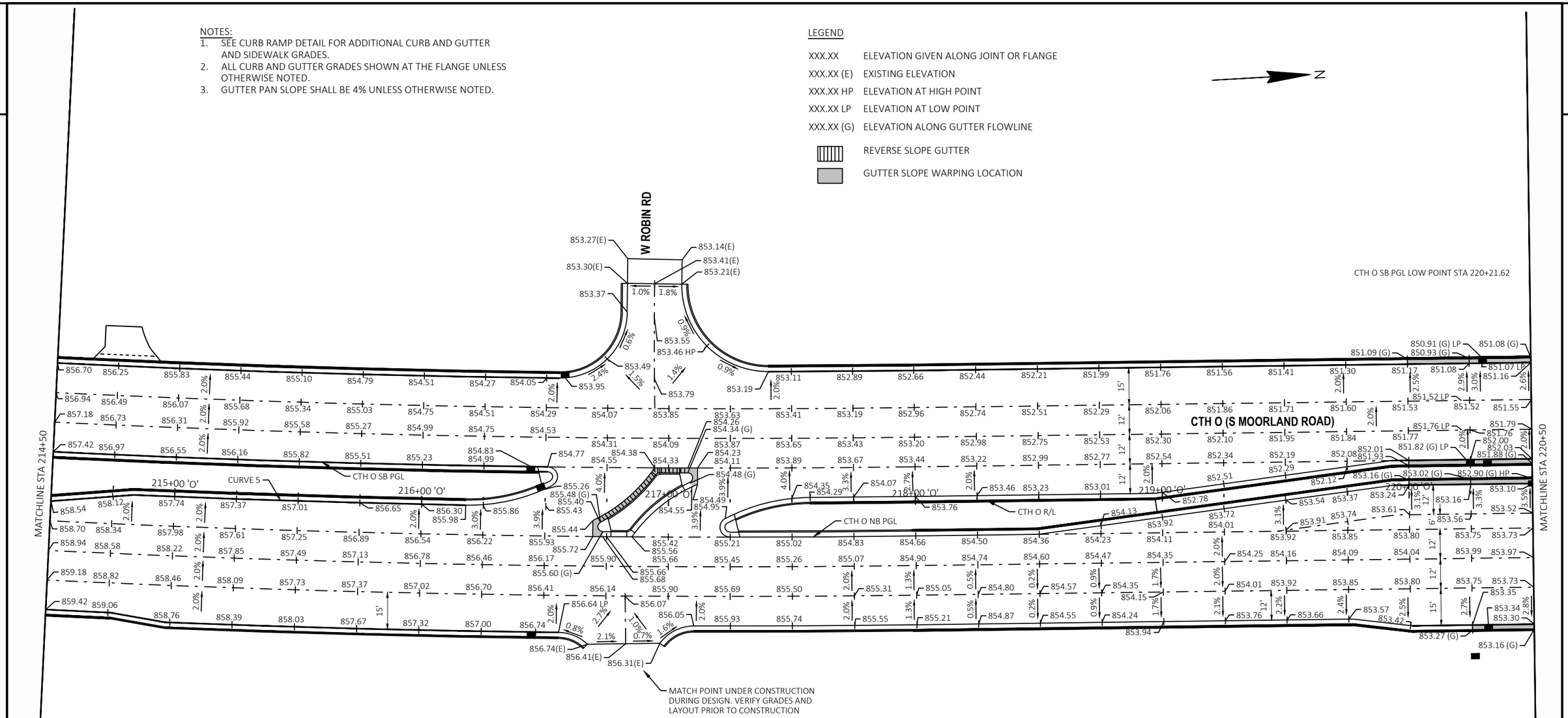
CURVE 5 SUPERELEVATION DATA

STATION	DESCRIPTION	LEFT OUTSIDE LANE/SHOULDER	LEFT INSIDE LANE	RIGHT INSIDE LANE	RIGHT OUTSIDE LANE/SHOULDER
210+40.45'	REVERSE CROWN	2%	2%	-2%	-2%
212+50.90'	REVERSE CROWN	-2%	-2%	2%	2%
217+76.19'	REVERSE CROWN	-2%	-2%	2%	2%
219+10.19'	BEGIN NORMAL CROWN/SHLDR	-2%	2%	2%	-2%

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION



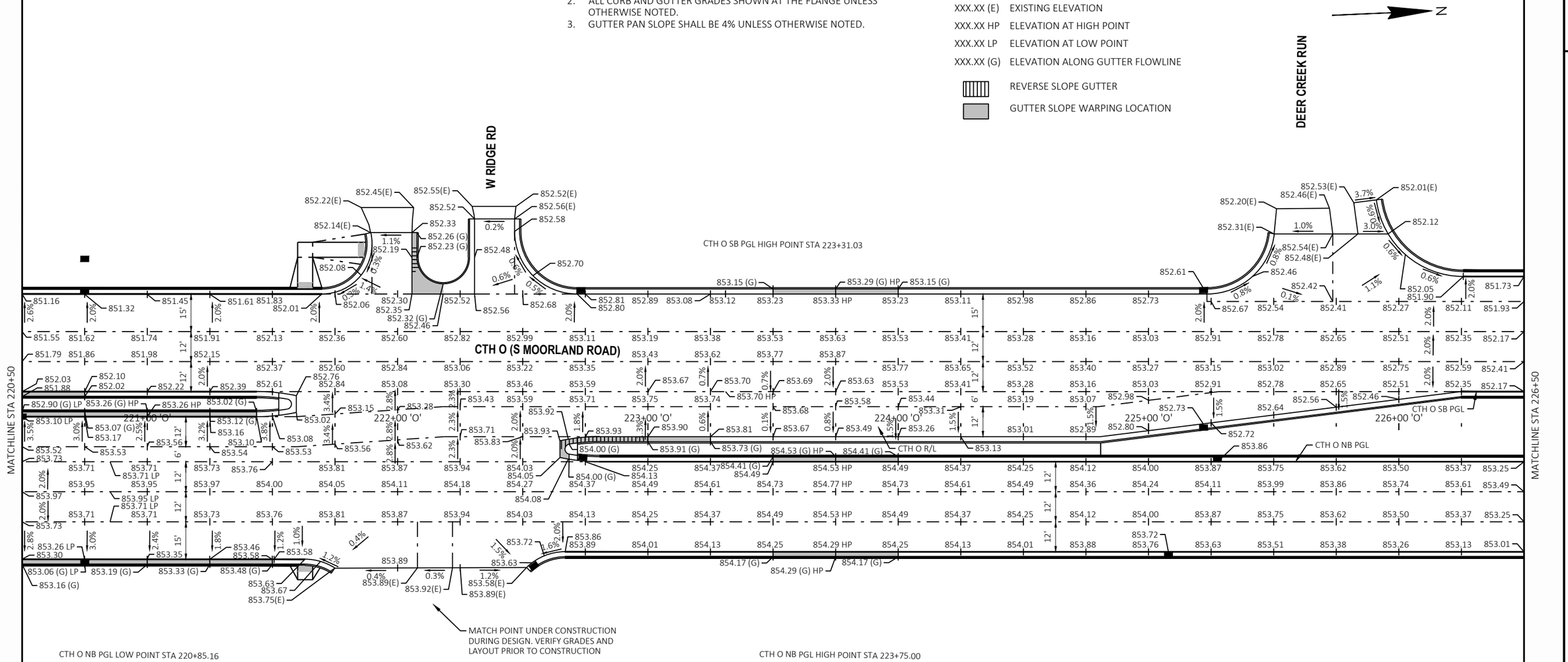
CURVE 5 SUPERELEVATION DATA

STATION	DESCRIPTION	LEFT OUTSIDE LANE/SHOULDER	LEFT INSIDE LANE	RIGHT INSIDE LANE	RIGHT OUTSIDE LANE/SHOULDER
210+40.45'	REVERSE CROWN	2%	2%	-2%	-2%
212+50.90'	REVERSE CROWN	-2%	-2%	2%	2%
217+76.19'	REVERSE CROWN	-2%	-2%	2%	2%
219+10.19'	BEGIN NORMAL CROWN/SHLDR	-2%	2%	2%	-2%

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION

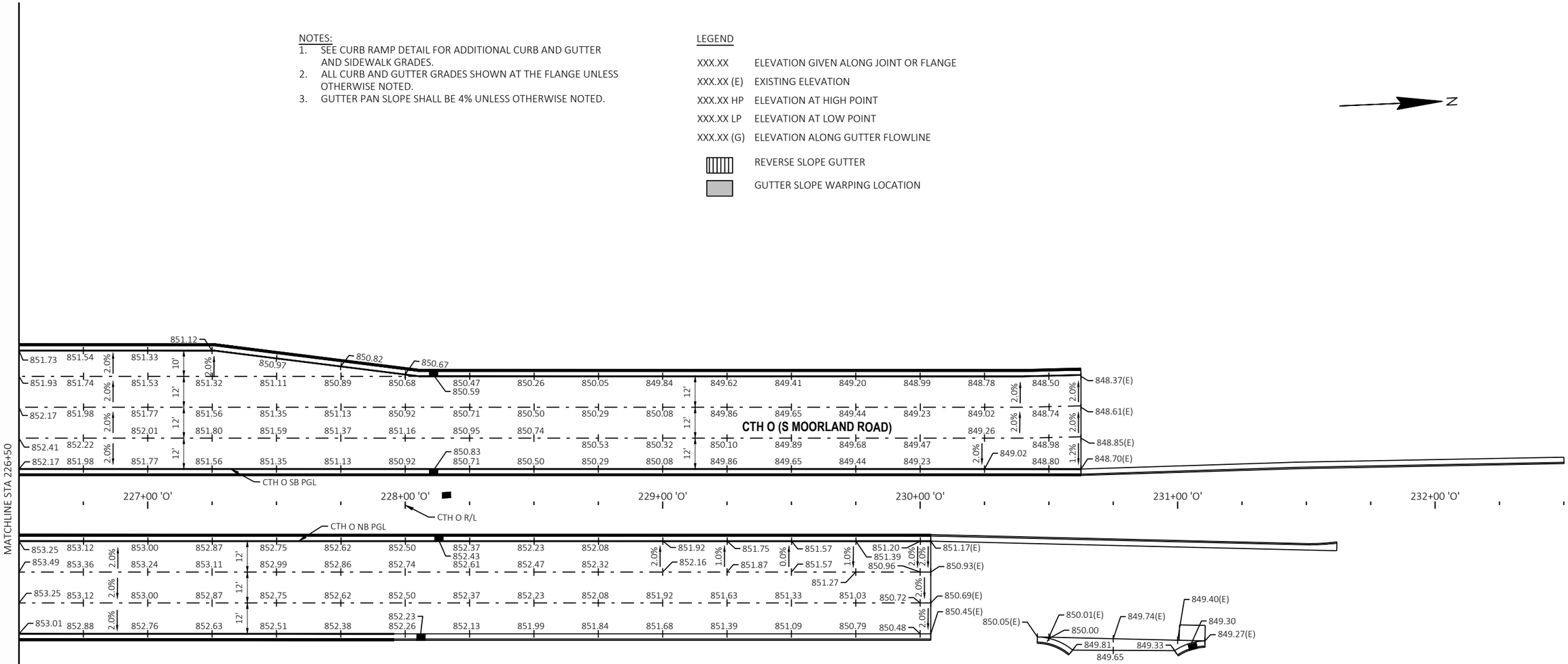


NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION

N

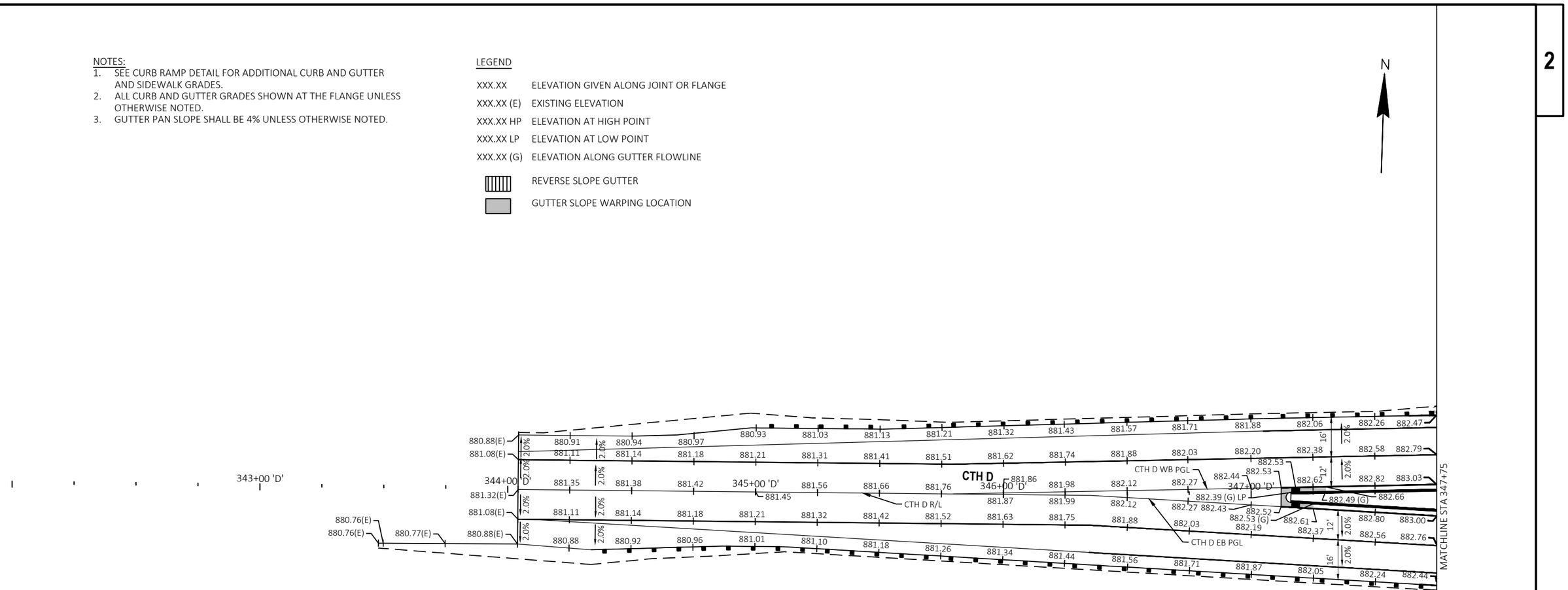


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 88	E

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION

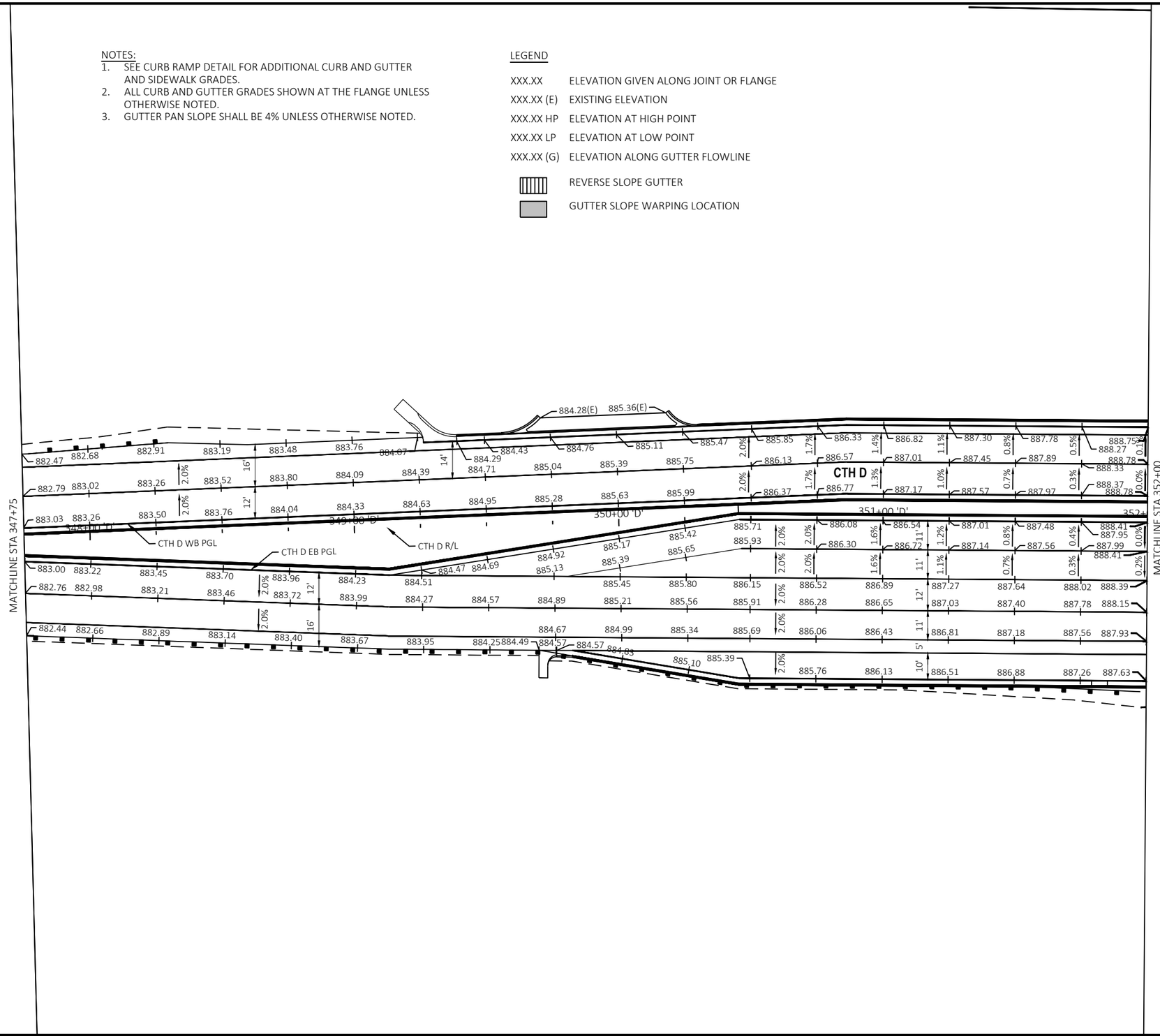


NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION

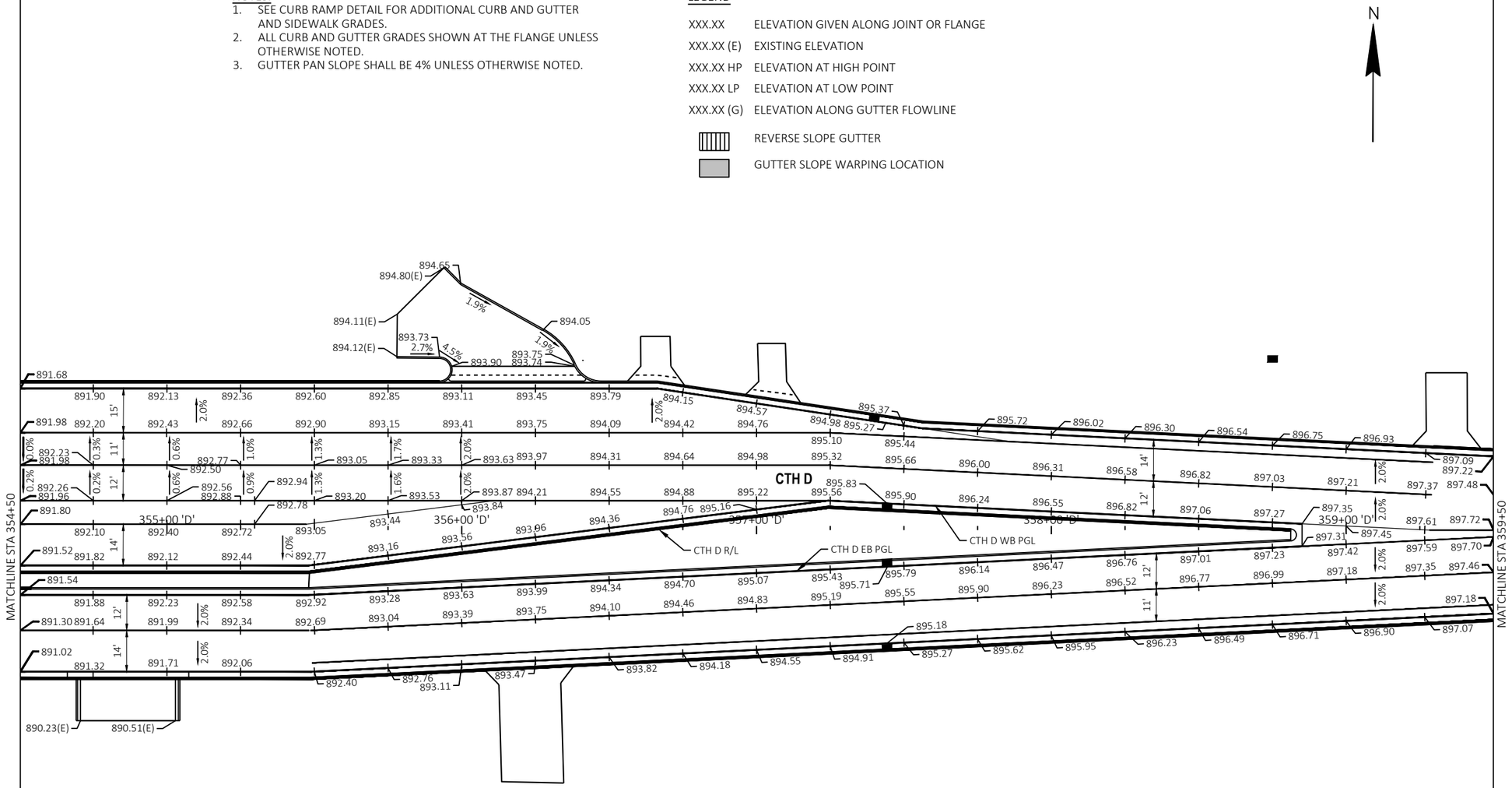
N



NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION

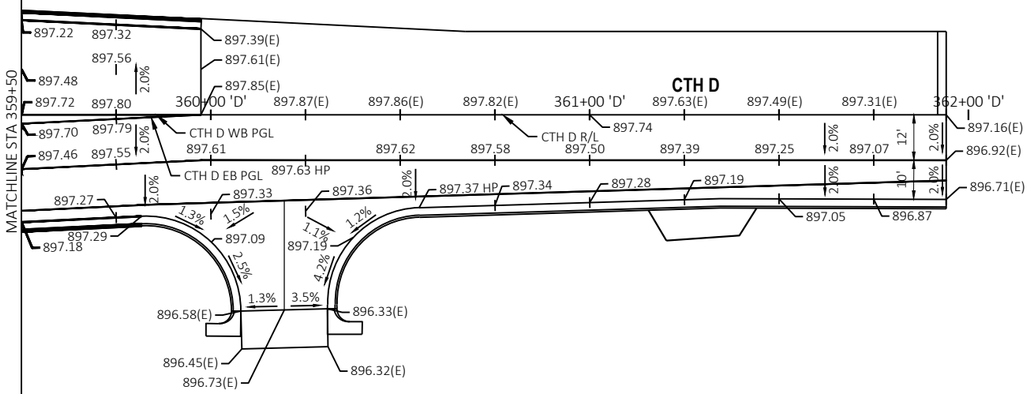


NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 92	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021200-PG.DWG
LAYOUT NAME - 20-D
PLOT DATE : 7/22/2026 7:20 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

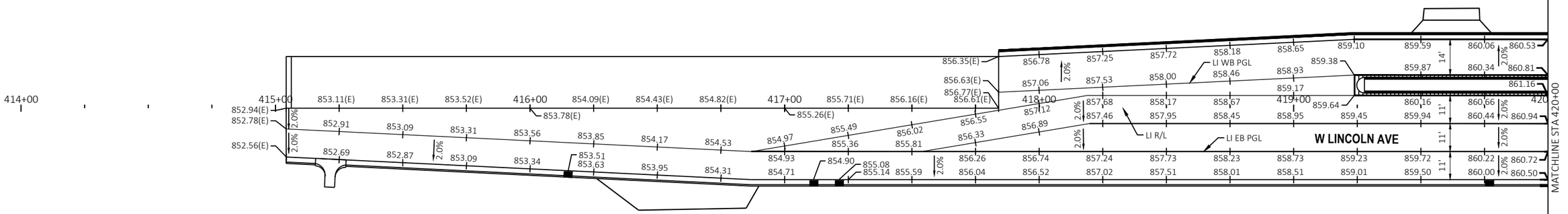
LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE

REVERSE SLOPE GUTTER

GUTTER SLOPE WARPING LOCATION

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 93	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021200-PG.DWG
LAYOUT NAME - 21-LI

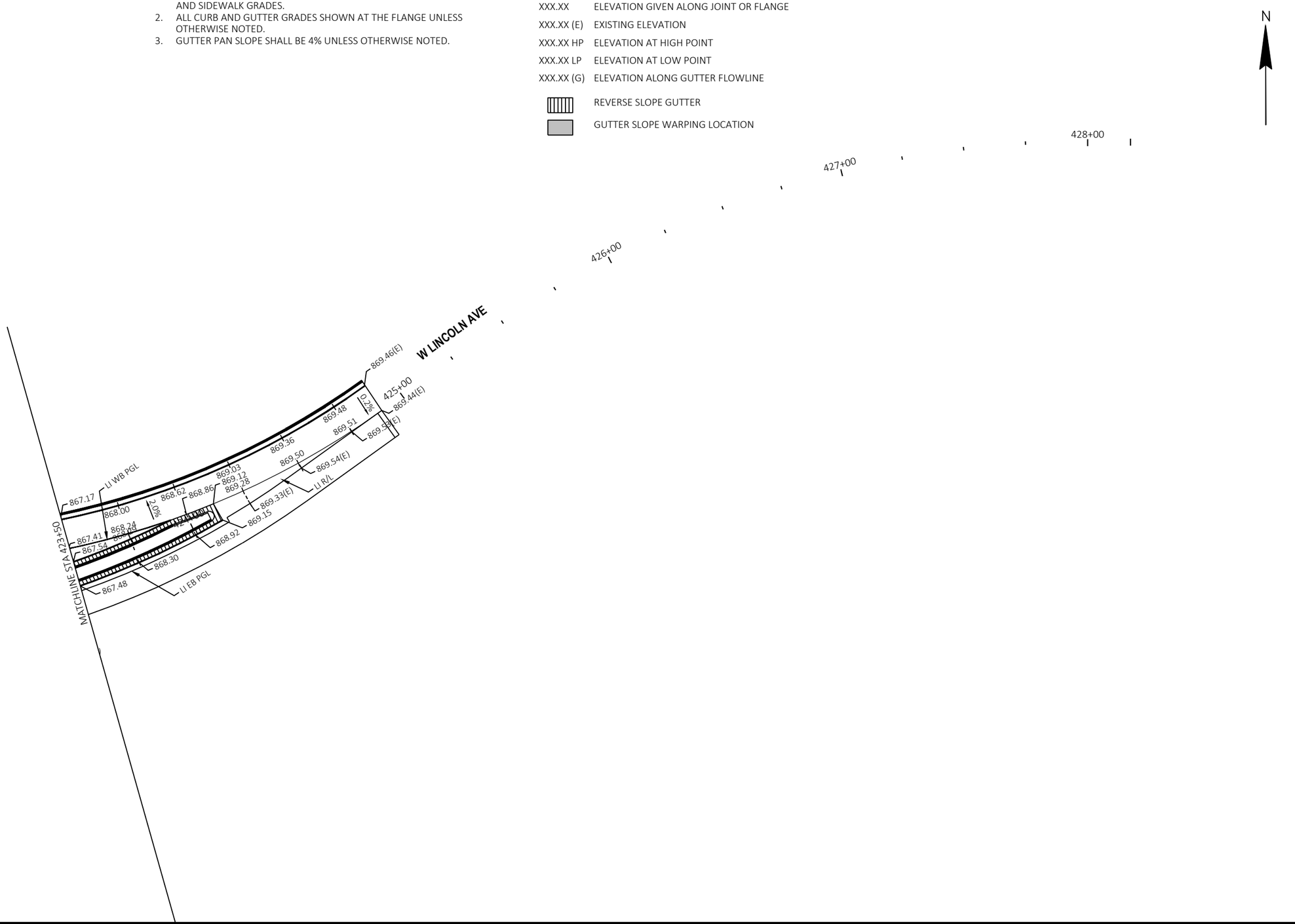
PLOT DATE : 7/22/2026 7:20 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE
	REVERSE SLOPE GUTTER
	GUTTER SLOPE WARPING LOCATION



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 94	E

NOTES:
1. SEE CURB RAMP DETAIL FOR ADDITIONAL CURB AND GUTTER AND SIDEWALK GRADES.
2. ALL CURB AND GUTTER GRADES SHOWN AT THE FLANGE UNLESS OTHERWISE NOTED.
3. GUTTER PAN SLOPE SHALL BE 4% UNLESS OTHERWISE NOTED.

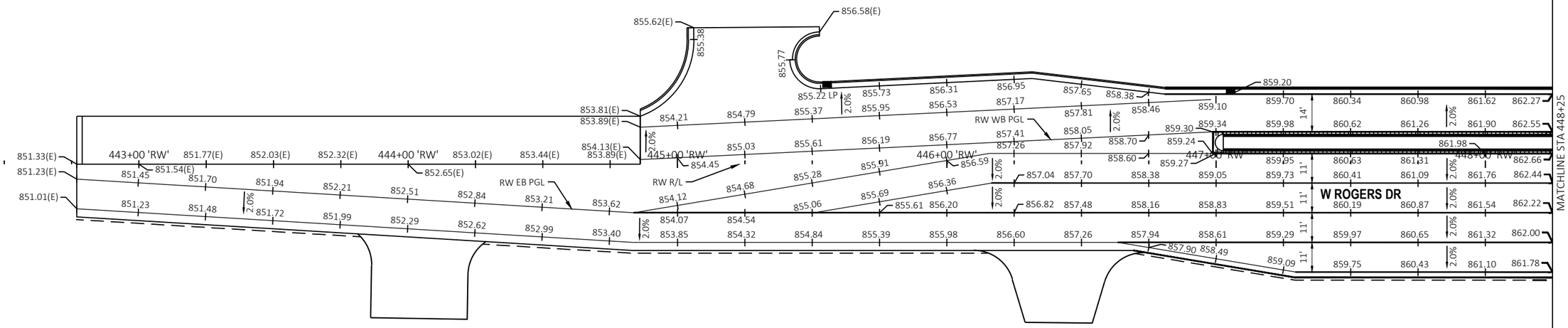
LEGEND

XXX.XX	ELEVATION GIVEN ALONG JOINT OR FLANGE
XXX.XX (E)	EXISTING ELEVATION
XXX.XX HP	ELEVATION AT HIGH POINT
XXX.XX LP	ELEVATION AT LOW POINT
XXX.XX (G)	ELEVATION ALONG GUTTER FLOWLINE

REVERSE SLOPE GUTTER

GUTTER SLOPE WARPING LOCATION

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVING GRADES	SHEET 95 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\021200-PG.DWG
LAYOUT NAME - 24-RW

PLOT DATE : 7/22/2026 7:20 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

POINT TABLE						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	Y	X	ELEVATION
1001	212+95.34	-55.50' LT	Cty-O	160,693.27	716,351.54	860.33
1002	212+48.10	-62.50' LT	Cty-O	160,647.91	716,338.23	860.51
1003	212+48.10	-52.50' LT	Cty-O	160,646.50	716,348.13	860.36
1004	212+58.19	-52.50' LT	Cty-O	160,656.41	716,349.53	860.23
1005	212+58.21	-62.74' LT	Cty-O	160,657.84	716,339.39	860.38
1006	213+05.44	-55.49' LT	Cty-O	160,703.18	716,352.86	860.15
1007	212+44.59	-52.50' LT	Cty-O	160,643.06	716,347.64	860.92
1010	212+48.10	-52.00' LT	Cty-O	160,646.44	716,348.63	860.36
1011	212+48.12	-50.00' LT	Cty-O	160,646.17	716,350.61	860.44
1012	212+58.20	-52.00' LT	Cty-O	160,656.34	716,350.02	860.23
1013	212+58.21	-50.00' LT	Cty-O	160,656.08	716,352.01	860.31
1014	212+61.74	-52.50' LT	Cty-O	160,659.89	716,350.01	860.69
1017	212+44.59	-11.50' LT	Cty-O	160,637.28	716,388.24	861.60
1020	212+48.16	-11.50' LT	Cty-O	160,640.81	716,388.74	861.06
1021	212+48.16	-12.00' LT	Cty-O	160,640.88	716,388.24	861.06
1022	212+48.16	-14.00' LT	Cty-O	160,641.16	716,386.26	861.14
1023	212+58.18	-14.00' LT	Cty-O	160,651.06	716,387.65	861.03
1024	212+58.18	-12.00' LT	Cty-O	160,650.78	716,389.64	860.95
1025	212+58.18	-11.50' LT	Cty-O	160,650.71	716,390.13	860.95
1028	212+61.74	-11.50' LT	Cty-O	160,654.24	716,390.62	861.41

POINT TABLE						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	Y	X	ELEVATION
1029	212+61.59	11.50' RT	Cty-O	160,650.91	716,413.38	861.74
1032	212+58.16	14.00' RT	Cty-O	160,647.16	716,415.38	861.36
1033	212+58.16	12.00' RT	Cty-O	160,647.43	716,413.40	861.28
1034	212+58.16	11.50' RT	Cty-O	160,647.50	716,412.91	861.28
1035	212+48.18	11.50' RT	Cty-O	160,637.60	716,411.51	861.37
1036	212+48.18	12.00' RT	Cty-O	160,637.53	716,412.01	861.37
1037	212+48.18	14.00' RT	Cty-O	160,637.25	716,413.99	861.45
1040	212+44.74	11.50' RT	Cty-O	160,634.19	716,411.03	861.88
1041	212+44.74	52.50' RT	Cty-O	160,628.42	716,451.62	862.67
1044	212+48.18	50.00' RT	Cty-O	160,632.20	716,449.63	862.15
1045	212+48.18	52.00' RT	Cty-O	160,631.92	716,451.61	862.19
1046	212+48.18	52.50' RT	Cty-O	160,631.85	716,452.11	862.19
1047	212+58.16	52.50' RT	Cty-O	160,641.82	716,453.51	862.13
1048	212+58.16	52.00' RT	Cty-O	160,641.89	716,453.02	862.12
1049	212+58.16	50.00' RT	Cty-O	160,642.17	716,451.03	862.08
1050	212+58.12	58.50' RT	Cty-O	160,640.95	716,459.45	862.10
1052	212+61.59	52.50' RT	Cty-O	160,645.25	716,453.99	862.57
1053	212+70.00	64.50' RT	Cty-O	160,652.02	716,467.04	862.69
1054	212+58.18	64.50' RT	Cty-O	160,640.18	716,465.40	862.07
1055	212+48.30	64.90' RT	Cty-O	160,630.23	716,464.40	862.13

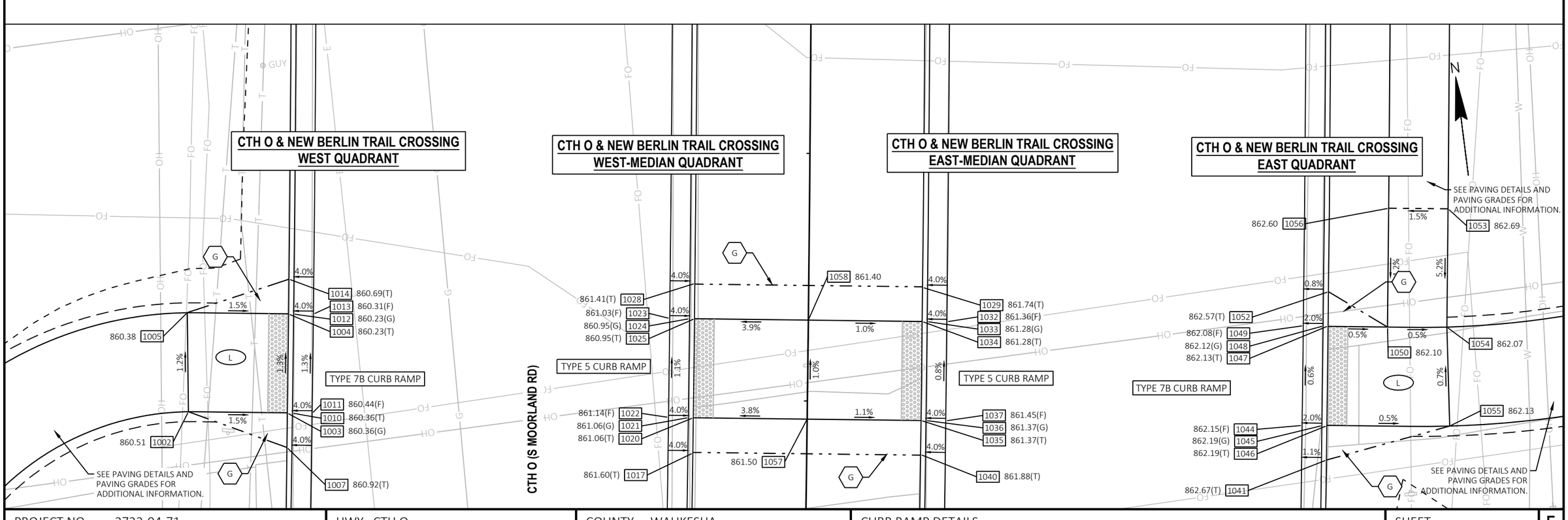
POINT TABLE						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	Y	X	ELEVATION
1056	212+70.00	58.50' RT	Cty-O	160,652.84	716,461.10	862.60
1057	212+48.17	0.00'	Cty-O	160,639.20	716,400.12	861.50
1058	212+58.17	0.00'	Cty-O	160,649.11	716,401.52	861.40

NOTES

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP CONSTRUCTION.
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE CONDITIONS OF THE STANDARD DETAIL DRAWINGS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. THE CROSS SLOPE OF THE GUTTER SHALL BE 4.0% UNLESS OTHERWISE SHOWN.
5. THE MAXIMUM GRADE BREAK BETWEEN THE GUTTER PAN AND CURB RAMP SHALL BE 11%
6. SIDEWALK AND CURB RAMP CROSS SLOPE SHALL NOT EXCEED 2%
7. SIDEWALK RUNNING SLOPE SHALL NOT EXCEED 8.33% (12H:1V).
8. UN-PAVED FLARES SHALL BE 3' LONG MEASURED ALONG THE CURB, UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	SIDEWALK ELEVATION
XXX.XX(F)	CURB FLANGE ELEVATION
XXX.XX(G)	GUTTER FLOWLINE ELEVATION
XXX.XX(T)	TOP OF CURB ELEVATION
L	LANDING
1001	POINT NUMBER
MEF	MAXIMUM EXTENT FEASIBLE DESIGN, TECHNICAL INFEASIBILITY PRESENT
	SLOPE INTERCEPTS
G	GRADED NON-TRAVERSABLE FLARE (6:1 SLOPE)
	DETECTABLE WARNING FIELD, NATURAL PATINA



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CURB RAMP DETAILS	SHEET 96	E

2

POINT TABLE						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	Y	X	ELEVATION
1100	221+89.22	-77.50' LT	Cty-O	161,580.75	716,390.85	852.14
1101	221+87.28	-77.05' LT	Cty-O	161,578.78	716,391.21	852.06
1102	221+86.79	-76.95' LT	Cty-O	161,578.29	716,391.30	852.56
1103	221+89.72	-73.74' LT	Cty-O	161,581.08	716,394.63	852.13
1104	221+87.73	-73.67' LT	Cty-O	161,579.08	716,394.61	852.05
1105	221+87.23	-73.65' LT	Cty-O	161,578.58	716,394.61	852.05
1106	221+88.78	-66.89' LT	Cty-O	161,579.83	716,401.44	852.11
1107	221+86.88	-67.50' LT	Cty-O	161,577.96	716,400.74	852.03
1108	221+86.40	-67.65' LT	Cty-O	161,577.49	716,400.57	852.03
1111	221+85.22	-64.83' LT	Cty-O	161,576.18	716,403.33	852.52
1114	221+69.75	-55.50' LT	Cty-O	161,560.32	716,411.97	852.43
1115	221+66.06	-53.00' LT	Cty-O	161,556.52	716,414.30	851.98
1116	221+66.06	-55.00' LT	Cty-O	161,556.60	716,412.31	851.90
1117	221+66.06	-55.50' LT	Cty-O	161,556.63	716,411.81	851.90
1118	221+60.06	-53.00' LT	Cty-O	161,550.52	716,414.04	851.92
1119	221+60.06	-55.00' LT	Cty-O	161,550.61	716,412.04	851.84
1120	221+60.06	-55.50' LT	Cty-O	161,550.63	716,411.54	851.84
1123	221+57.00	-55.50' LT	Cty-O	161,547.58	716,411.40	852.31

POINT TABLE						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	Y	X	ELEVATION
1124	221+60.06	-67.65' LT	Cty-O	161,551.17	716,399.40	852.69
1125	221+66.06	-67.65' LT	Cty-O	161,557.16	716,399.67	852.75
1126	221+60.06	-73.65' LT	Cty-O	161,551.44	716,393.41	852.78
1127	221+66.06	-73.65' LT	Cty-O	161,557.43	716,393.67	852.84
1128	221+84.40	-73.65' LT	Cty-O	161,575.75	716,394.49	852.13
1129	221+84.40	-67.65' LT	Cty-O	161,575.49	716,400.48	852.10
1130	221+86.40	-73.65' LT	Cty-O	161,577.75	716,394.57	852.06
1133	221+57.00	55.50' RT	Cty-O	161,542.66	716,522.30	854.03
1134	221+60.06	53.00' RT	Cty-O	161,545.82	716,519.93	853.63
1135	221+60.06	55.00' RT	Cty-O	161,545.74	716,521.93	853.55
1136	221+60.06	55.50' RT	Cty-O	161,545.71	716,522.43	853.55
1137	221+62.93	53.00' RT	Cty-O	161,548.69	716,520.06	853.63
1138	221+66.46	53.29' RT	Cty-O	161,552.21	716,520.50	853.64
1139	221+66.14	55.26' RT	Cty-O	161,551.80	716,522.46	853.62
1140	221+66.06	55.75' RT	Cty-O	161,551.70	716,522.95	853.62
1143	221+69.03	56.48' RT	Cty-O	161,554.63	716,523.81	854.14
1144	221+74.85	56.51' RT	Cty-O	161,560.45	716,524.10	853.75
1145	221+73.77	58.19' RT	Cty-O	161,559.29	716,525.73	853.67

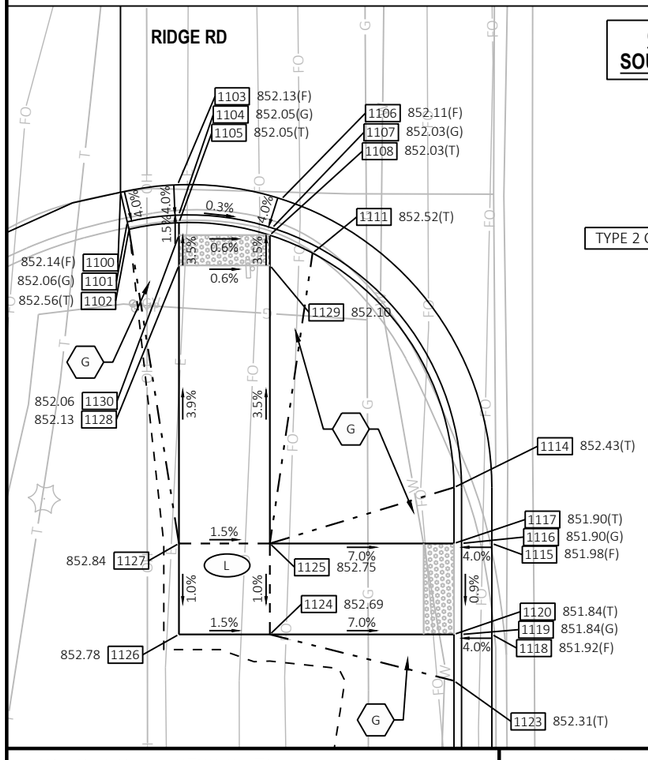
POINT TABLE						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	Y	X	ELEVATION
1146	221+73.50	58.61' RT	Cty-O	161,559.00	716,526.14	854.17
1147	221+60.06	61.11' RT	Cty-O	161,545.47	716,528.03	853.82
1148	221+66.06	61.11' RT	Cty-O	161,545.46	716,528.30	853.89
1149	221+60.06	55.50' RT	Cty-O	161,545.71	716,522.43	853.55
1150	221+60.06	55.75' RT	Cty-O	161,545.70	716,522.68	853.55

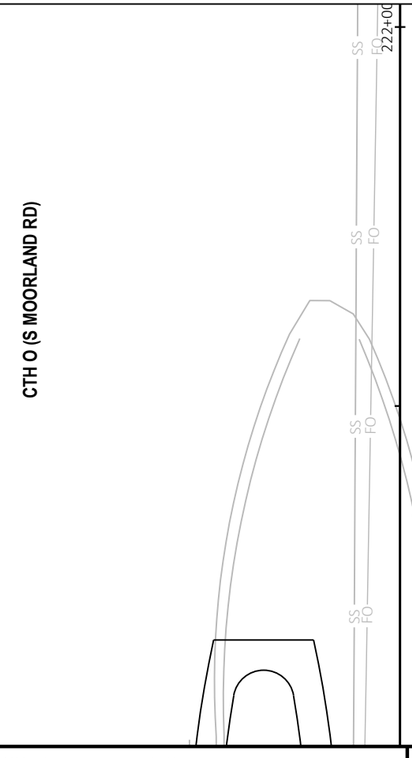
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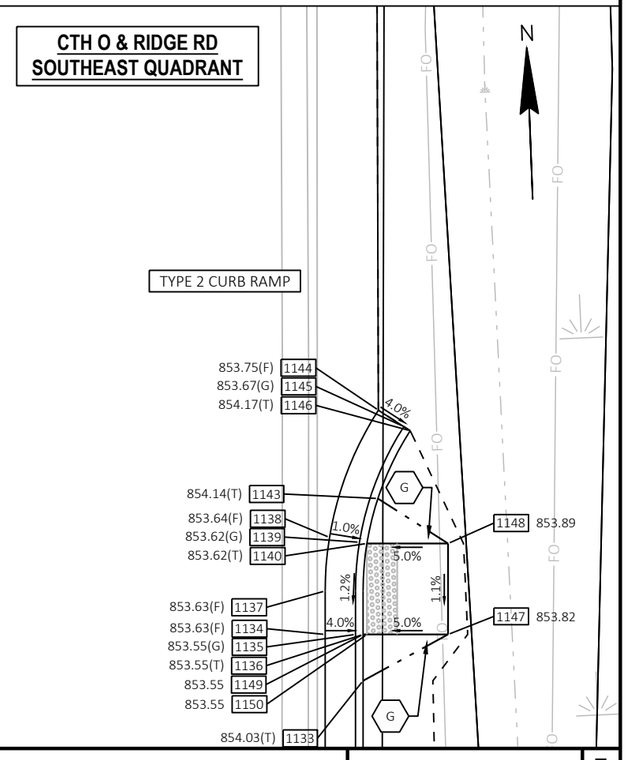
1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP CONSTRUCTION.
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE CONDITIONS OF THE STANDARD DETAIL DRAWINGS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. THE CROSS SLOPE OF THE GUTTER SHALL BE 4.0% UNLESS OTHERWISE SHOWN.
5. THE MAXIMUM GRADE BREAK BETWEEN THE GUTTER PAN AND CURB RAMP SHALL BE 11%
6. SIDEWALK AND CURB RAMP CROSS SLOPE SHALL NOT EXCEED 2%
7. SIDEWALK RUNNING SLOPE SHALL NOT EXCEED 8.33% (12H:1V).
8. UN-PAVED FLARES SHALL BE 3' LONG MEASURED ALONG THE CURB, UNLESS OTHERWISE NOTED.

LEGEND

XXX.XX	SIDEWALK ELEVATION
XXX.XX(F)	CURB FLANGE ELEVATION
XXX.XX(G)	GUTTER FLOWLINE ELEVATION
XXX.XX(T)	TOP OF CURB ELEVATION
(L)	LANDING
1001	POINT NUMBER
MEF	MAXIMUM EXTENT FEASIBLE DESIGN, TECHNICAL INFEASIBILITY PRESENT
	SLOPE INTERCEPTS
(G)	GRADED NON-TRAVERSABLE FLARE (6:1 SLOPE)
	DETECTABLE WARNING FIELD, NATURAL PATINA







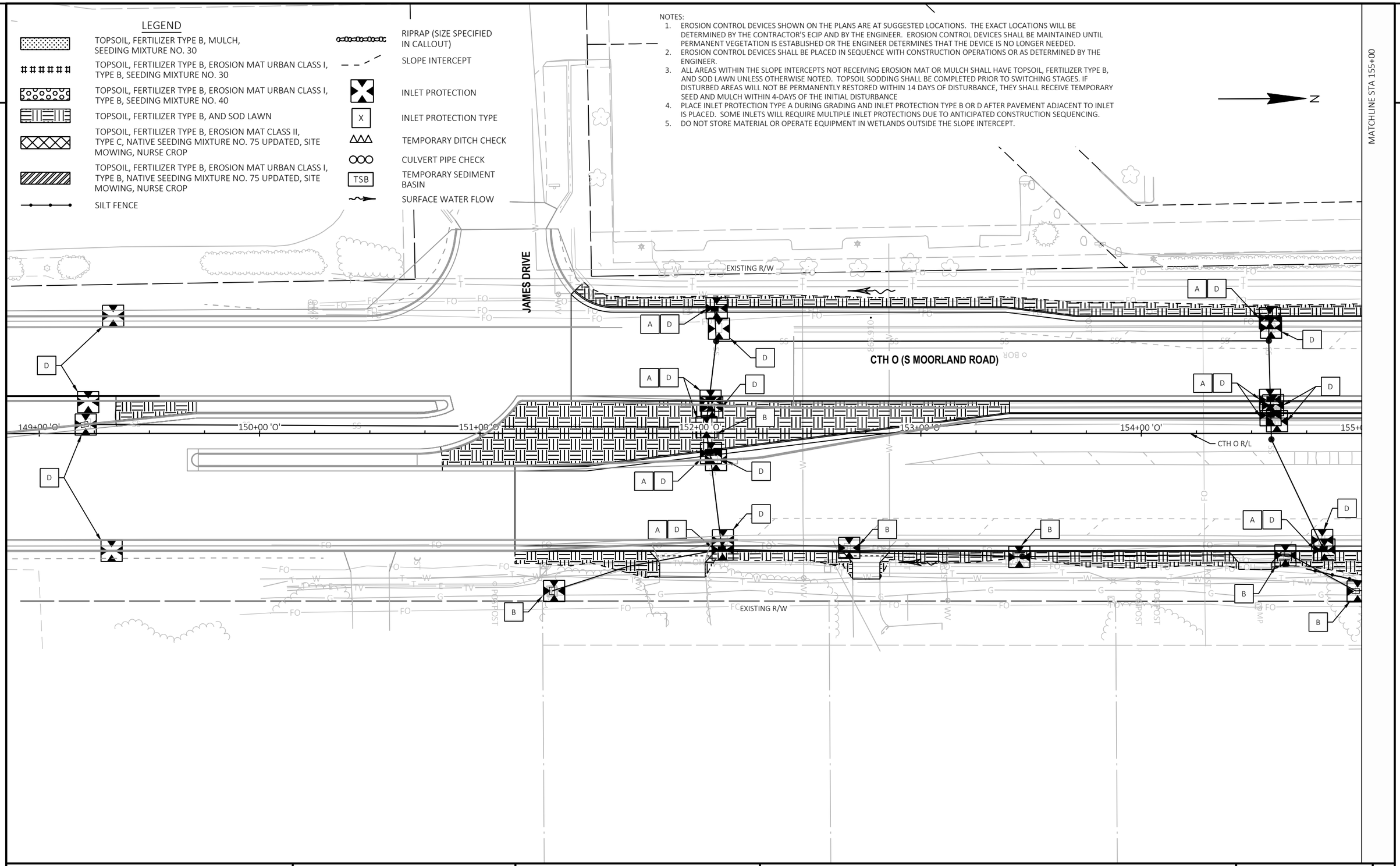
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CURB RAMP DETAILS	SHEET 97	E

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- INLET PROTECTION TYPE X
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TEMPORARY SEDIMENT BASIN TSB
- SURFACE WATER FLOW

NOTES:

1. EROSION CONTROL DEVICES SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER NEEDED.
2. EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.
3. ALL AREAS WITHIN THE SLOPE INTERCEPTS NOT RECEIVING EROSION MAT OR MULCH SHALL HAVE TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN UNLESS OTHERWISE NOTED. TOPSOIL SODDING SHALL BE COMPLETED PRIOR TO SWITCHING STAGES. IF DISTURBED AREAS WILL NOT BE PERMANENTLY RESTORED WITHIN 14 DAYS OF DISTURBANCE, THEY SHALL RECEIVE TEMPORARY SEED AND MULCH WITHIN 4-DAYS OF THE INITIAL DISTURBANCE
4. PLACE INLET PROTECTION TYPE A DURING GRADING AND INLET PROTECTION TYPE B OR D AFTER PAVEMENT ADJACENT TO INLET IS PLACED. SOME INLETS WILL REQUIRE MULTIPLE INLET PROTECTIONS DUE TO ANTICIPATED CONSTRUCTION SEQUENCING.
5. DO NOT STORE MATERIAL OR OPERATE EQUIPMENT IN WETLANDS OUTSIDE THE SLOPE INTERCEPT.

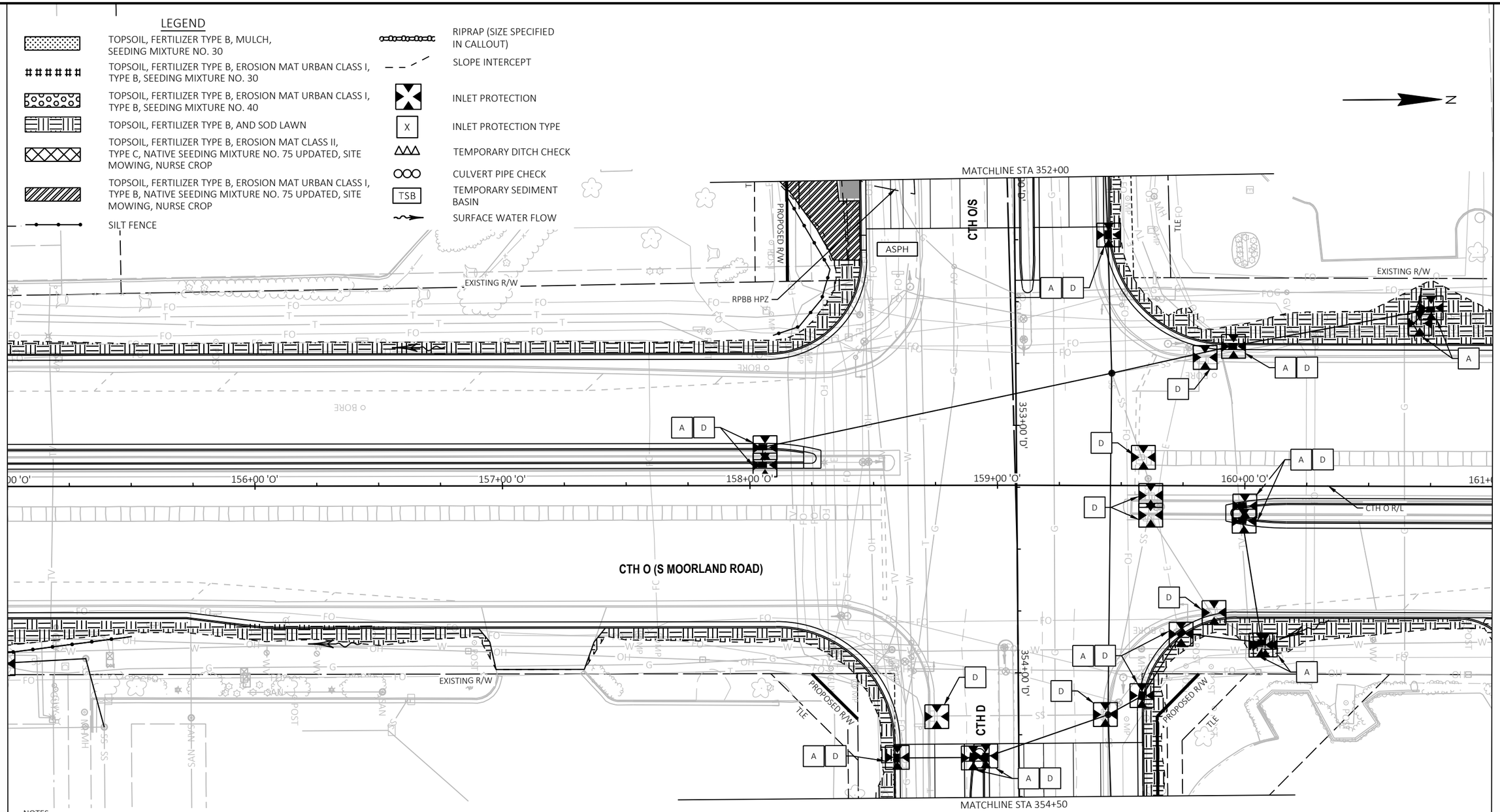


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 98	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 01
PLOT DATE : 7/22/2026 11:00 AM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW



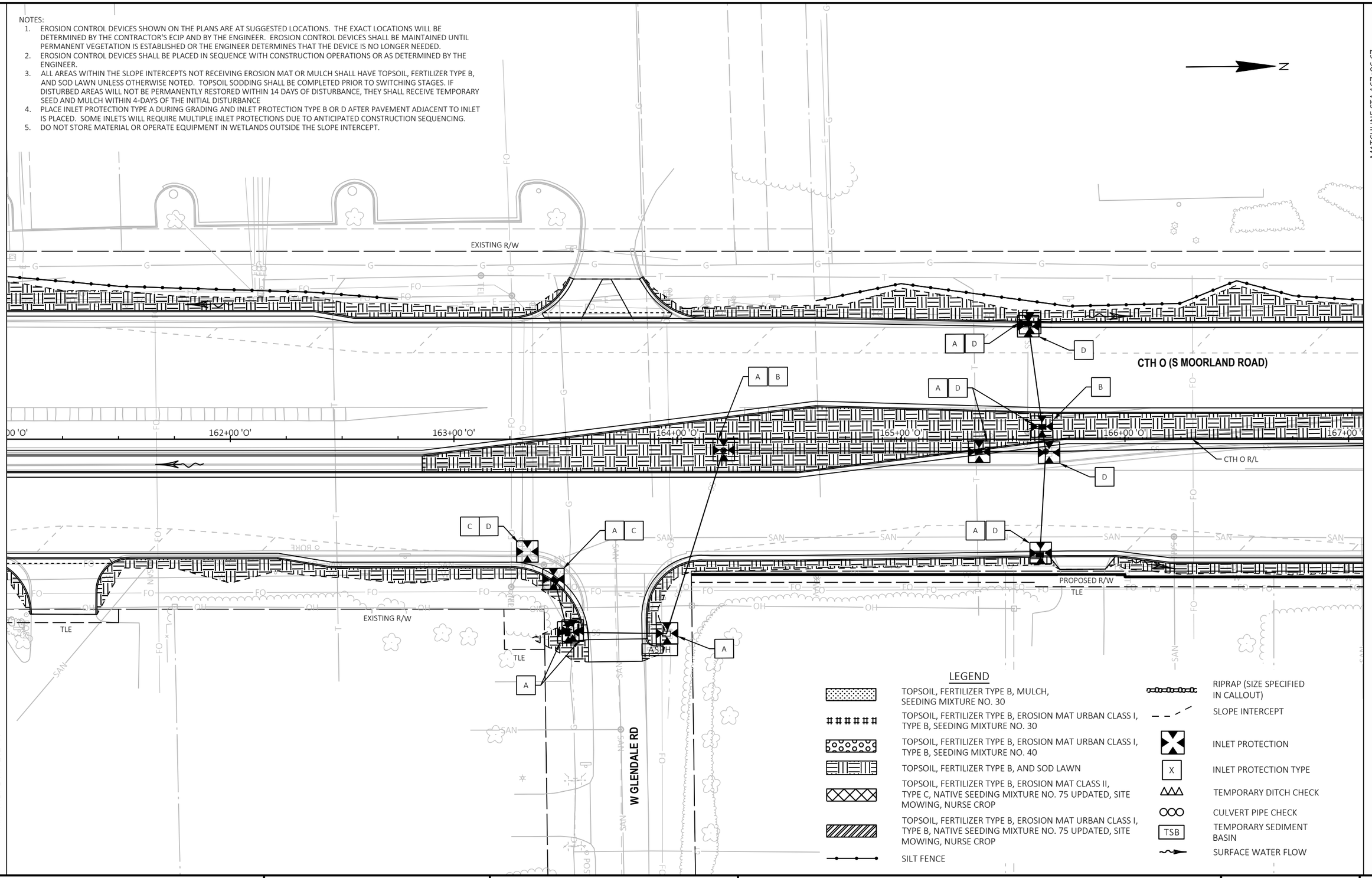
NOTES:

1. EROSION CONTROL DEVICES SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER NEEDED.
2. EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.
3. ALL AREAS WITHIN THE SLOPE INTERCEPTS NOT RECEIVING EROSION MAT OR MULCH SHALL HAVE TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN UNLESS OTHERWISE NOTED. TOPSOIL SODDING SHALL BE COMPLETED PRIOR TO SWITCHING STAGES. IF DISTURBED AREAS WILL NOT BE PERMANENTLY RESTORED WITHIN 14 DAYS OF DISTURBANCE, THEY SHALL RECEIVE TEMPORARY SEED AND MULCH WITHIN 4-DAYS OF THE INITIAL DISTURBANCE
4. PLACE INLET PROTECTION TYPE A DURING GRADING AND INLET PROTECTION TYPE B OR D AFTER PAVEMENT ADJACENT TO INLET IS PLACED. SOME INLETS WILL REQUIRE MULTIPLE INLET PROTECTIONS DUE TO ANTICIPATED CONSTRUCTION SEQUENCING.
5. DO NOT STORE MATERIAL OR OPERATE EQUIPMENT IN WETLANDS OUTSIDE THE SLOPE INTERCEPT.

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 99	E

NOTES:

1. EROSION CONTROL DEVICES SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER NEEDED.
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4. PLACE INLET PROTECTION TYPE A DURING GRADING AND INLET PROTECTION TYPE B OR D AFTER PAVEMENT ADJACENT TO INLET IS PLACED. SOME INLETS WILL REQUIRE MULTIPLE INLET PROTECTIONS DUE TO ANTICIPATED CONSTRUCTION SEQUENCING.
5. DO NOT STORE MATERIAL OR OPERATE EQUIPMENT IN WETLANDS OUTSIDE THE SLOPE INTERCEPT.

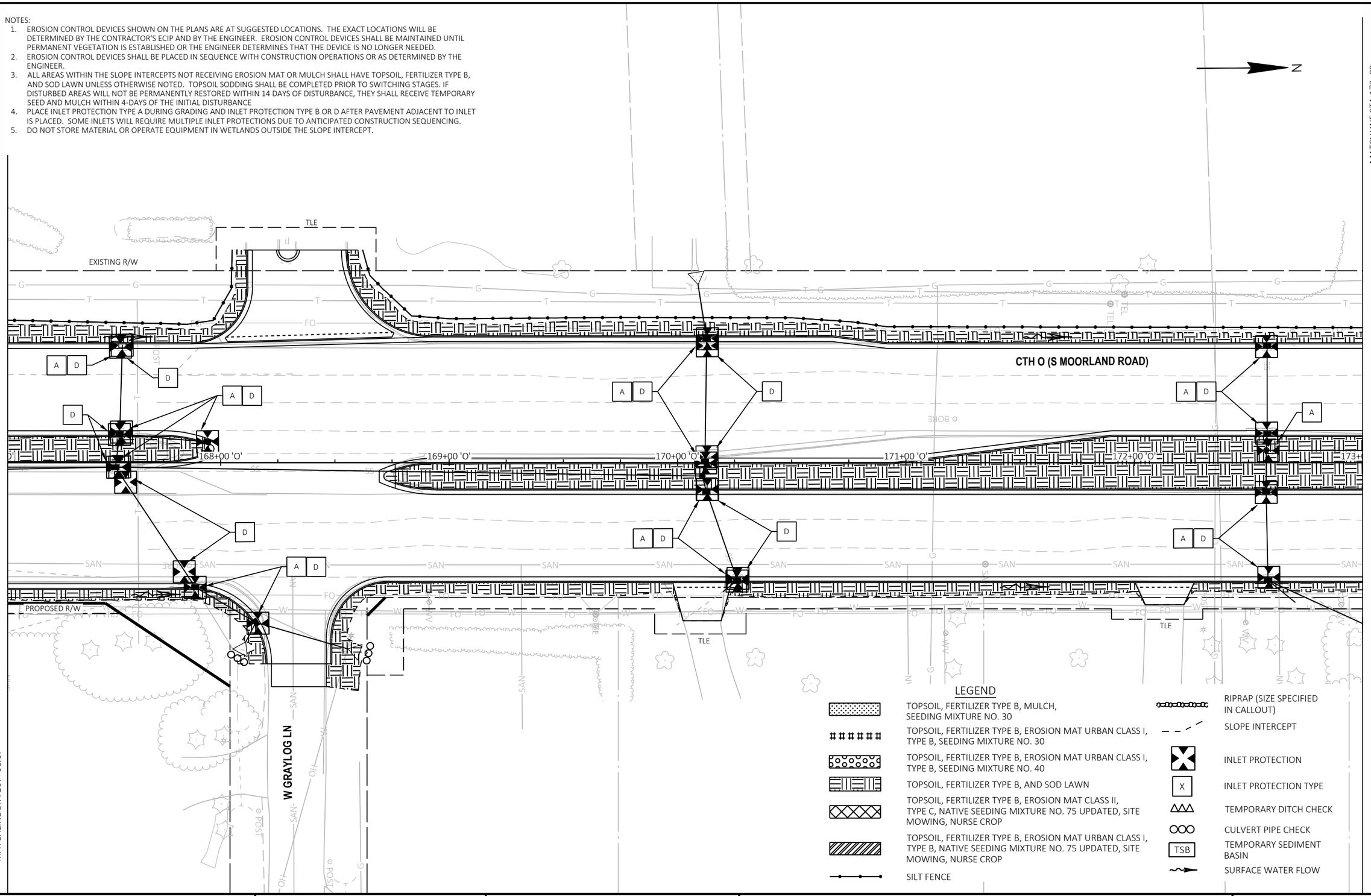


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 100	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 03
PLOT DATE : 7/22/2026 11:00 AM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:

1. EROSION CONTROL DEVICES SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER NEEDED.
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4. PLACE INLET PROTECTION TYPE A DURING GRADING AND INLET PROTECTION TYPE B OR D AFTER PAVEMENT ADJACENT TO INLET IS PLACED. SOME INLETS WILL REQUIRE MULTIPLE INLET PROTECTIONS DUE TO ANTICIPATED CONSTRUCTION SEQUENCING.
5. DO NOT STORE MATERIAL OR OPERATE EQUIPMENT IN WETLANDS OUTSIDE THE SLOPE INTERCEPT.



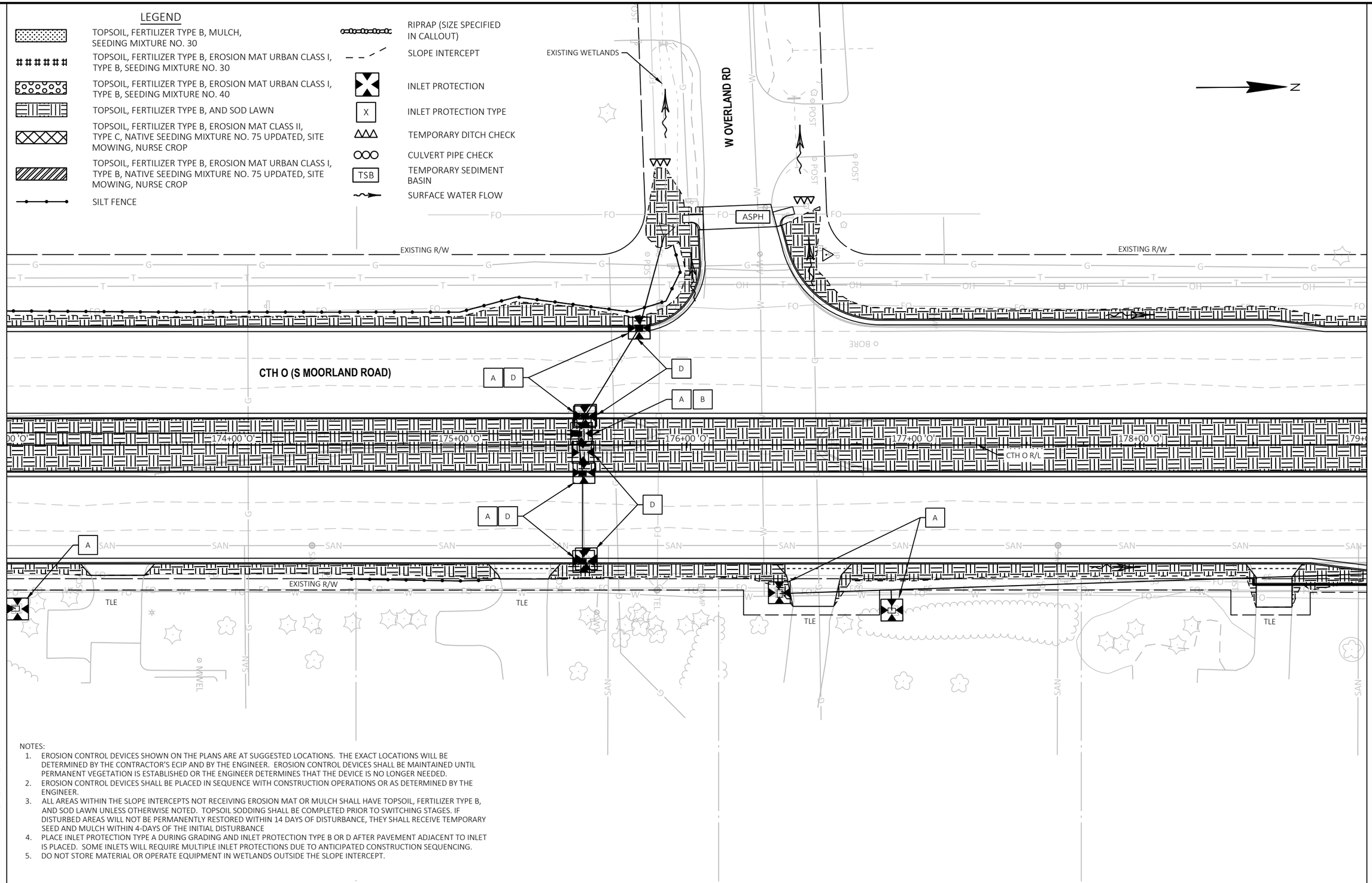
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 101	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 04
PLOT DATE : 7/22/2026 11:00 AM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW



MATCHLINE STA 173+00

MATCHLINE STA 179+00

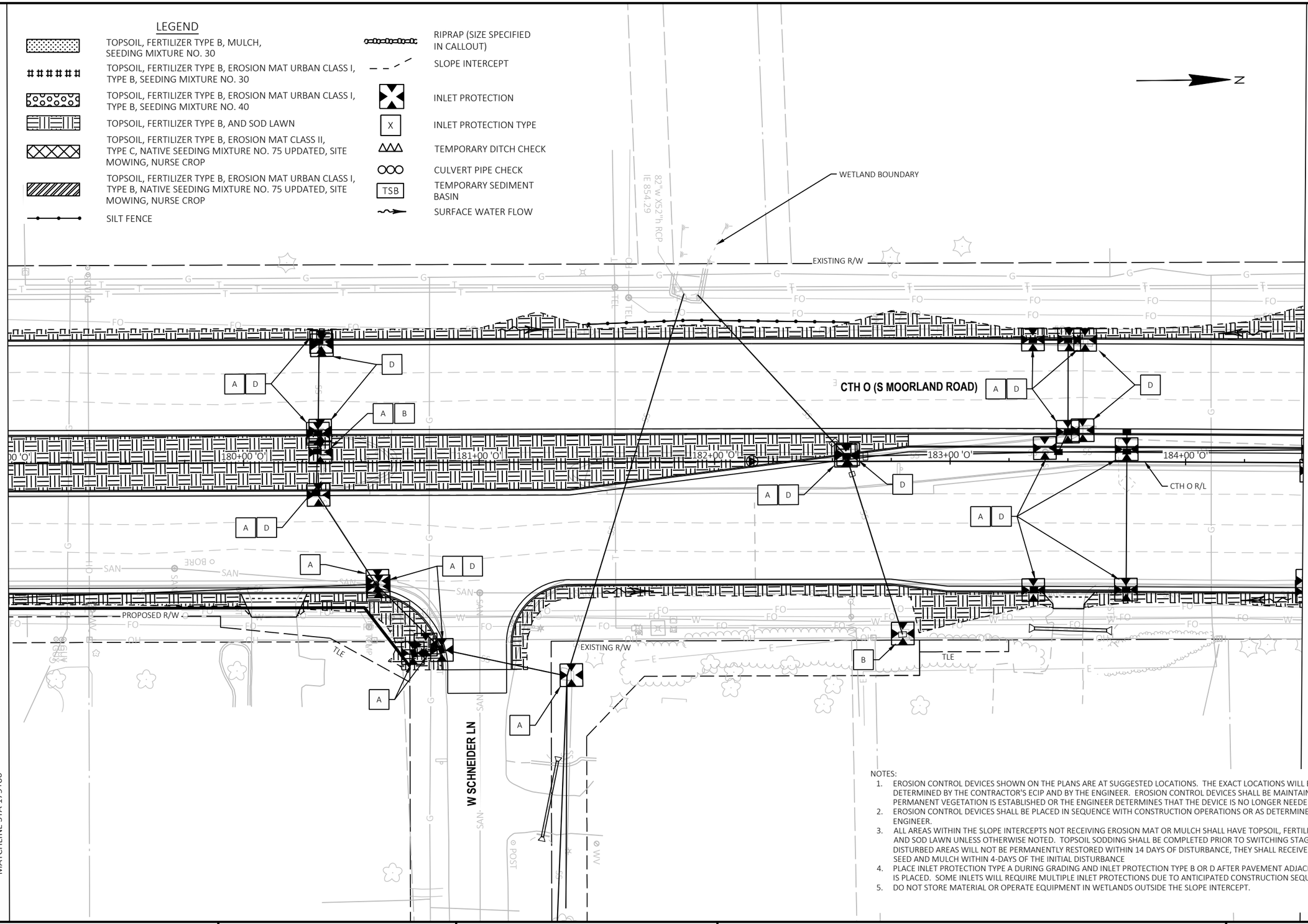
NOTES:

1. EROSION CONTROL DEVICES SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER NEEDED.
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3. ALL AREAS WITHIN THE SLOPE INTERCEPTS NOT RECEIVING EROSION MAT OR MULCH SHALL HAVE TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN UNLESS OTHERWISE NOTED. TOPSOIL SODDING SHALL BE COMPLETED PRIOR TO SWITCHING STAGES. IF DISTURBED AREAS WILL NOT BE PERMANENTLY RESTORED WITHIN 14 DAYS OF DISTURBANCE, THEY SHALL RECEIVE TEMPORARY SEED AND MULCH WITHIN 4-DAYS OF THE INITIAL DISTURBANCE
4. PLACE INLET PROTECTION TYPE A DURING GRADING AND INLET PROTECTION TYPE B OR D AFTER PAVEMENT ADJACENT TO INLET IS PLACED. SOME INLETS WILL REQUIRE MULTIPLE INLET PROTECTIONS DUE TO ANTICIPATED CONSTRUCTION SEQUENCING.
5. DO NOT STORE MATERIAL OR OPERATE EQUIPMENT IN WETLANDS OUTSIDE THE SLOPE INTERCEPT.

2

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW



NOTES:

1. EROSION CONTROL DEVICES SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER NEEDED.
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5. DO NOT STORE MATERIAL OR OPERATE EQUIPMENT IN WETLANDS OUTSIDE THE SLOPE INTERCEPT.

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 103	E

NOTES:

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5. DO NOT STORE MATERIAL OR OPERATE EQUIPMENT IN WETLANDS OUTSIDE THE SLOPE INTERCEPT.

MATCHLINE STA 420+00

MATCHLINE STA 190+50

MATCHLINE STA 184+50

MATCHLINE STA 423+50

RIPRAP LIGHT, GEOTEXTILE TYPE R

SEE BIOSWALE PLANS FOR EROSION CONTROL AND RESTORATION

WETLAND BOUNDARY

W LINCOLN AVE

CTH O (S MOORLAND ROAD)

PROPOSED R/W

EXISTING R/W

TLE

LI R/L

CTH O R/L

421+00

422+00

423+00

185+00 'O'

186+00 'O'

187+00 'O'

188+00 'O'

189+00 'O'

190+00 'O'

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 104	E

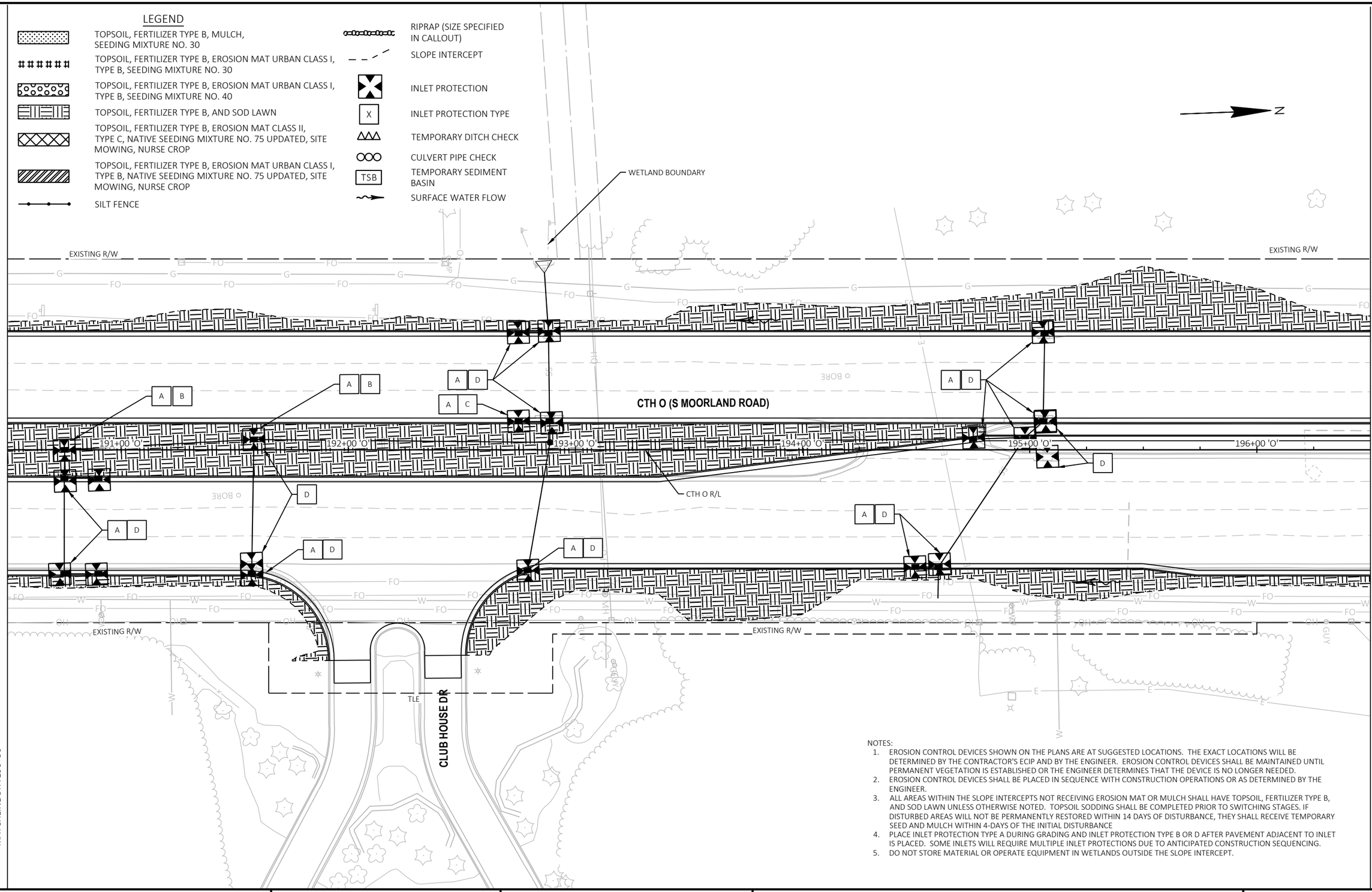
FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 07

PLOT DATE : 7/22/2026 11:00 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW



NOTES:

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5. DO NOT STORE MATERIAL OR OPERATE EQUIPMENT IN WETLANDS OUTSIDE THE SLOPE INTERCEPT.

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 105	E

NOTES:

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MATCHLINE STA 448+25

MATCHLINE STA 202+50

MATCHLINE STA 196+50

W ROGERS DR

WOODVIEW DR

CTH O (S MOORLAND ROAD)

EXISTING R/W

PROPOSED R/W

RG R/L

CTH O R/L

WV R/L

WETLAND BOUNDARY

197+00 'O'

198+00 'O'

199+00 'O'

200+00 'O'

201+00 'O'

202+00 'O'

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 106	E

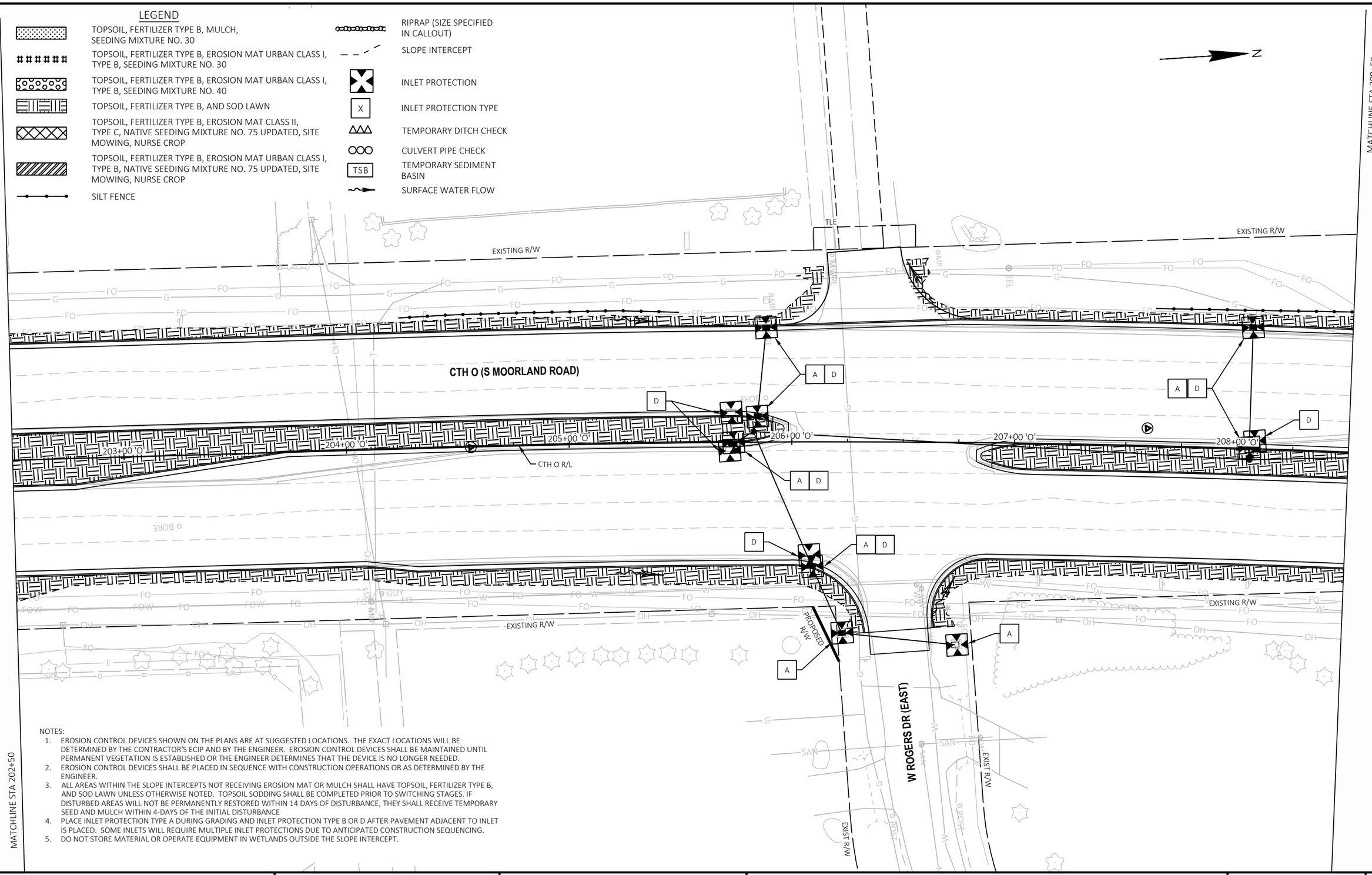
FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 09

PLOT DATE : 7/22/2026 11:01 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
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- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW



NOTES:

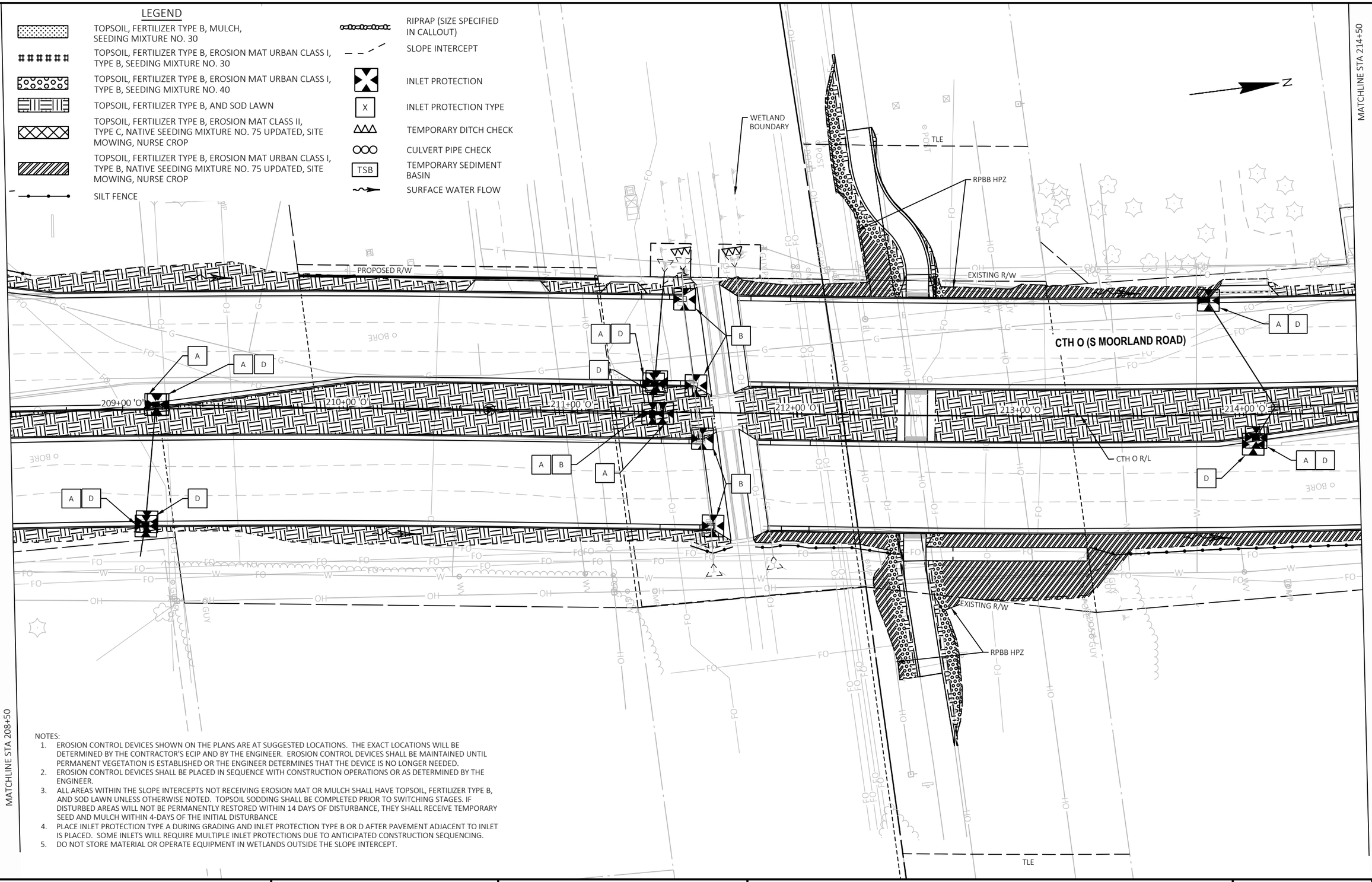
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 107	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 10
PLOT DATE : 7/22/2026 11:01 AM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- INLET PROTECTION TYPE (X)
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TEMPORARY SEDIMENT BASIN (TSB)
- SURFACE WATER FLOW



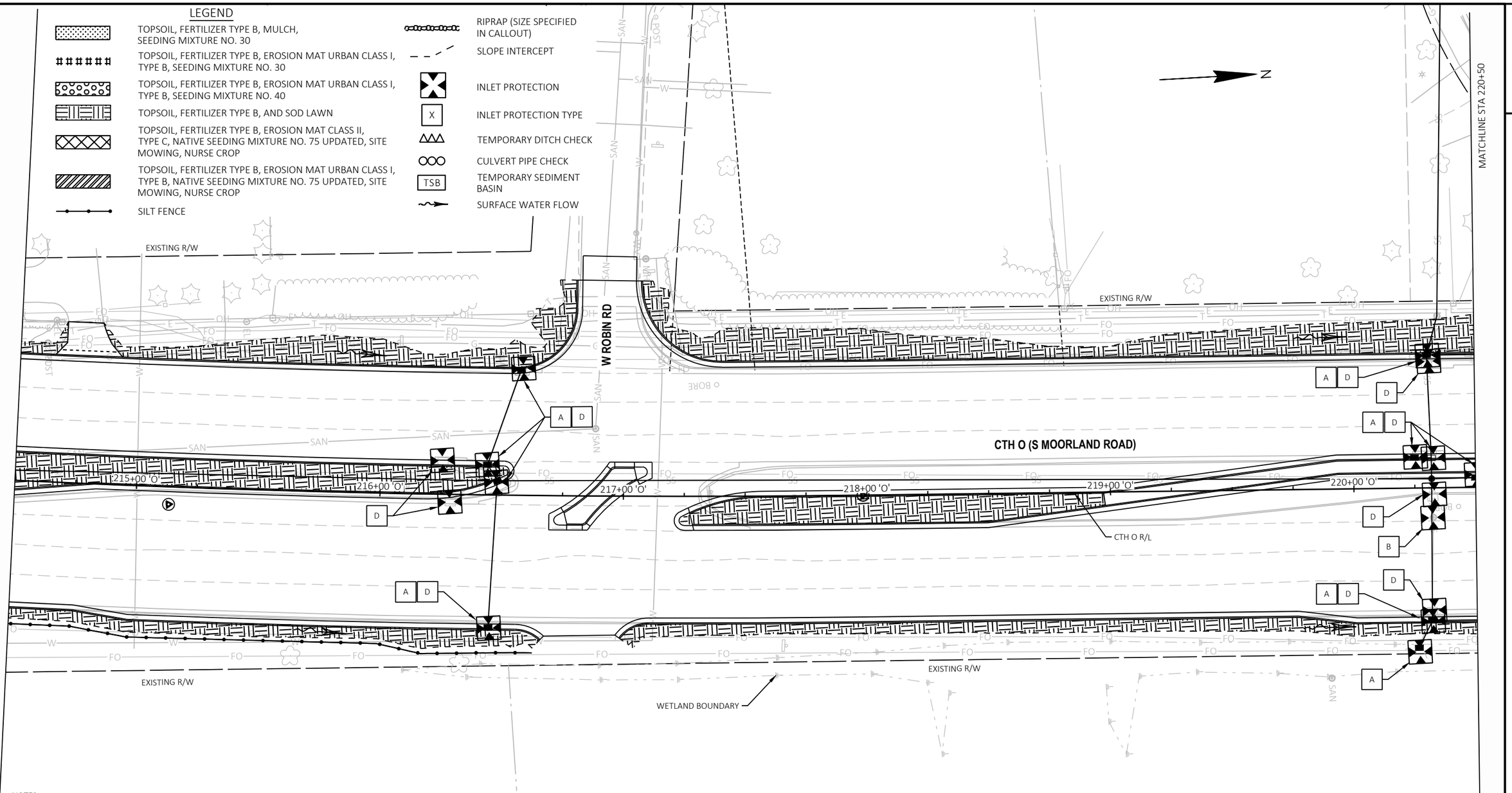
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5. DO NOT STORE MATERIAL OR OPERATE EQUIPMENT IN WETLANDS OUTSIDE THE SLOPE INTERCEPT.

2

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
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- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 109	E

2

2

MATCHLINE STA 226+50

MATCHLINE STA 220+50

N

W RIDGE RD

DEER CREEK RUN

CTH O (S MOORLAND ROAD)

TLE

EXISTING R/W

221+00 'O'

222+00 'O'

223+00 'O'

224+00 'O'

225+00 'O'

226+00 'O'

CTH O R/L

WETLAND BOUNDARY

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
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- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

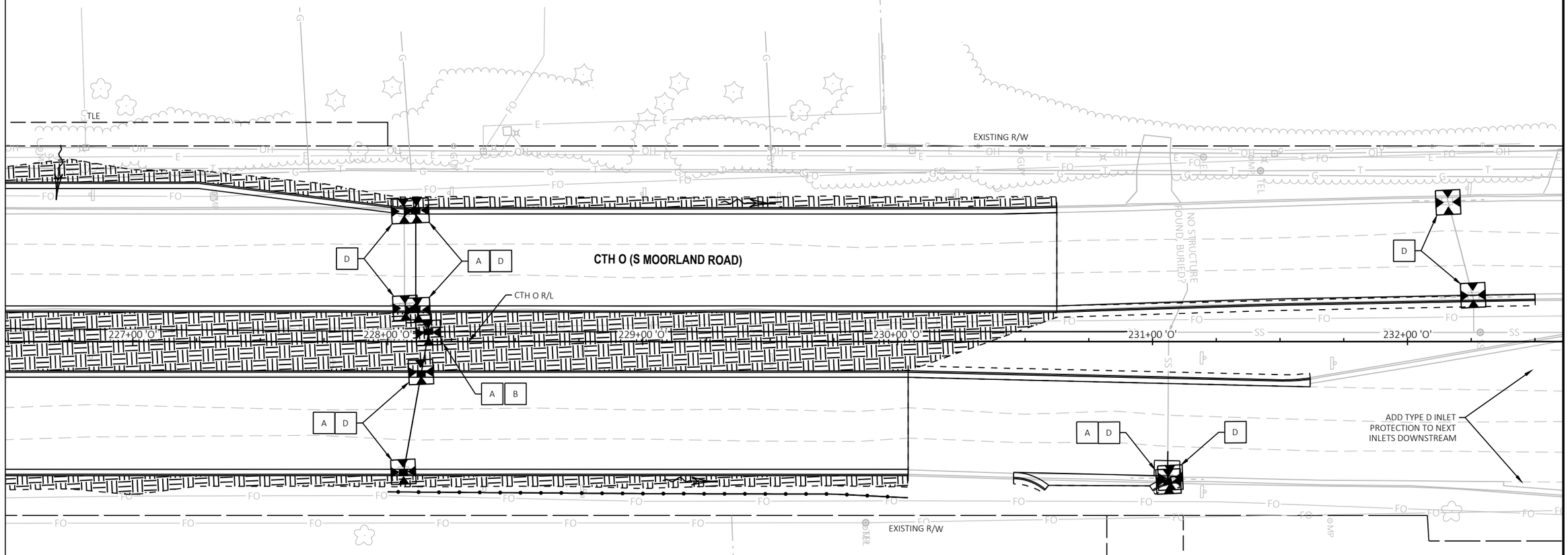
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 110	E

NOTES:

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5. DO NOT STORE MATERIAL OR OPERATE EQUIPMENT IN WETLANDS OUTSIDE THE SLOPE INTERCEPT.



LEGEND

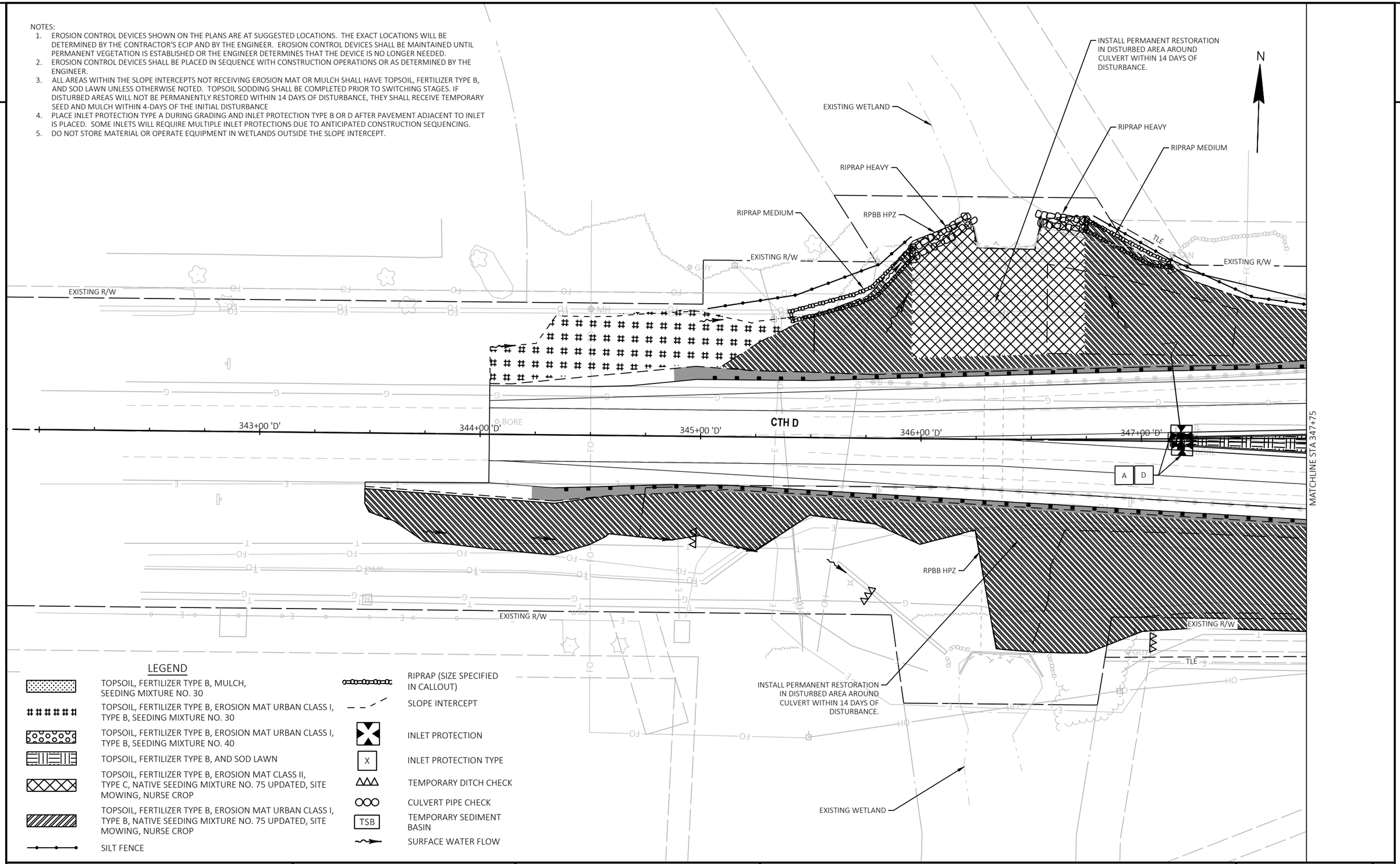
- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
- TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
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- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 111	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 14
PLOT DATE : 7/22/2026 11:01 AM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:

1. EROSION CONTROL DEVICES SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER NEEDED.
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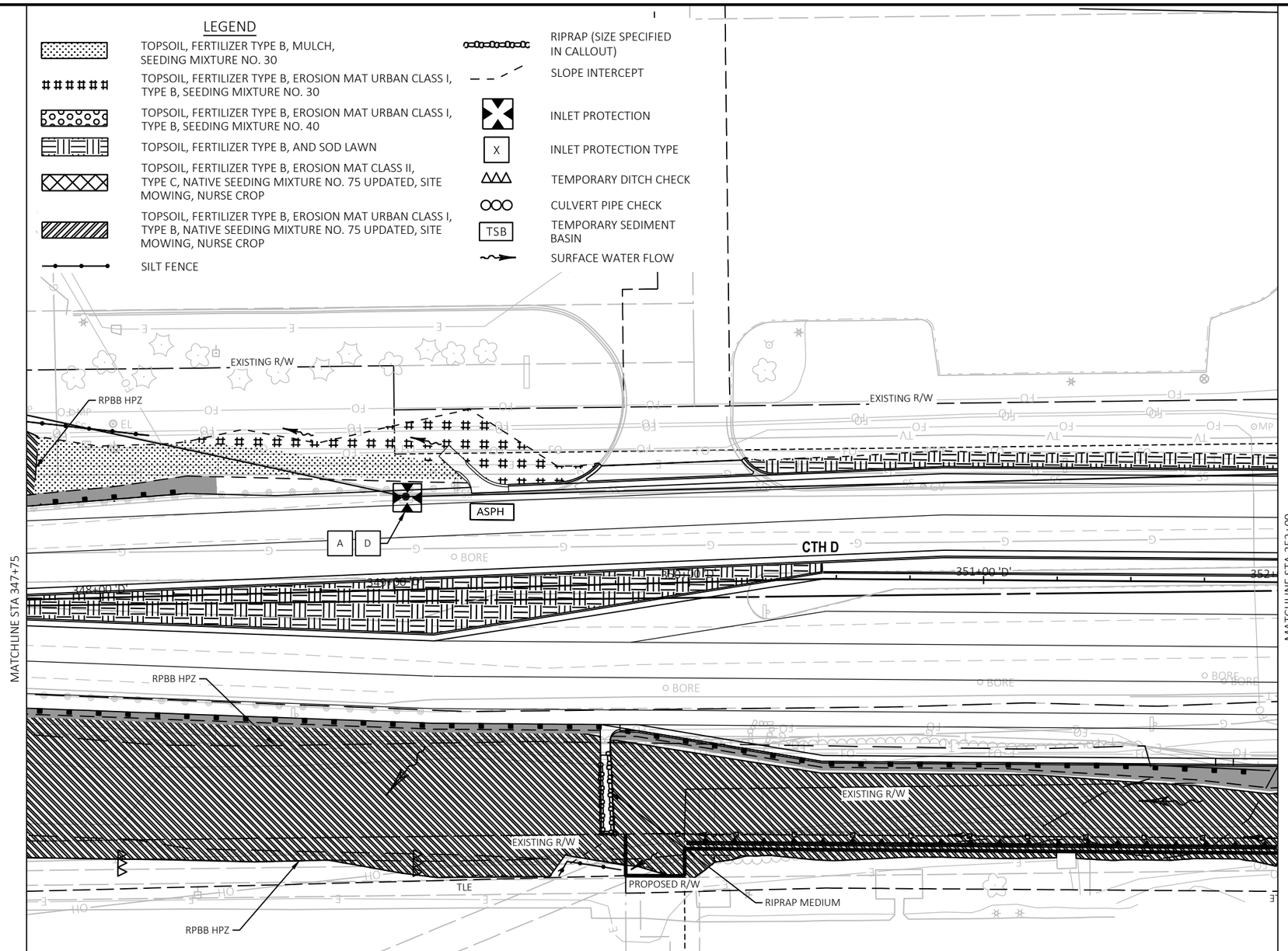


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 112	E

2

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
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- TOPSOIL, FERTILIZER TYPE B, EROSION MAT CLASS II, TYPE C, NATIVE SEEDING MIXTURE NO. 75 UPDATED, SITE MOWING, NURSE CROP
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- SILT FENCE
- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW



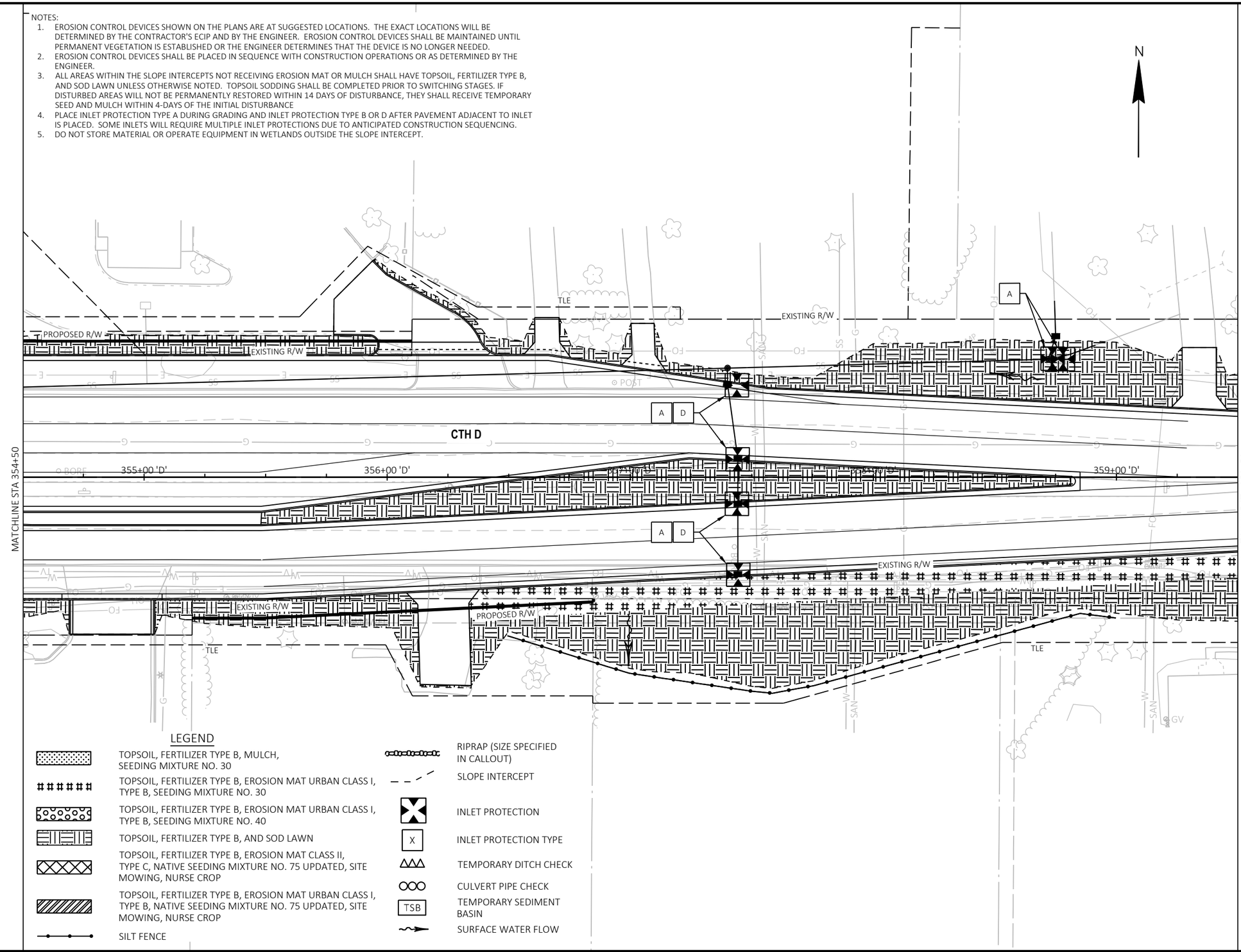
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 114	E

2

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
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- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

N

MATCHLINE STA 359+50

EXISTING R/W

EXISTING R/W

TLE

MWEL

MH

POST

BORE

360+00 'D'

361+00 'D'

CTH D

362+00 'D'

363+00 'D'

364+00 'D'

365+00 'D'

WV

SAN

NOTES:

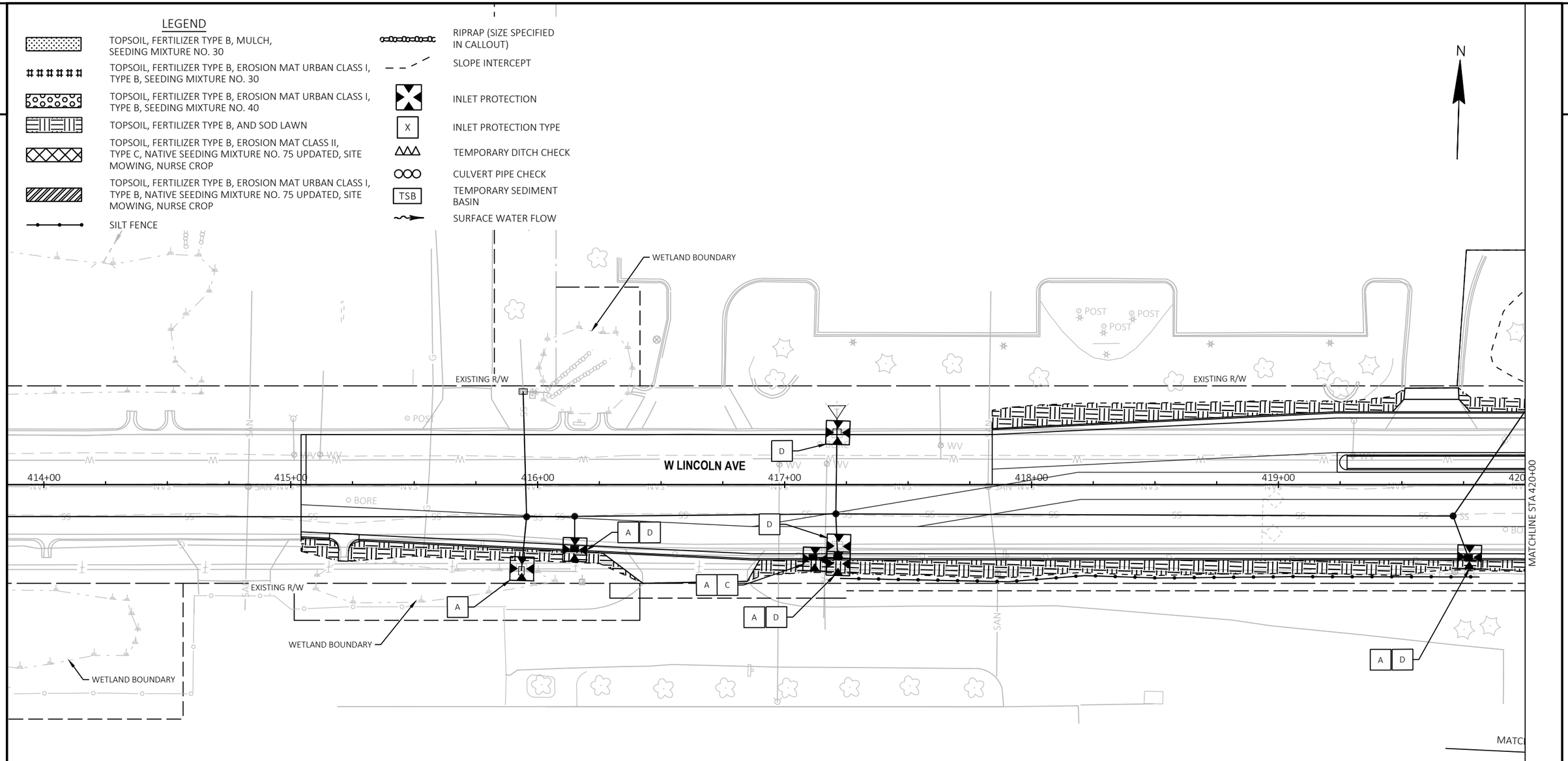
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 115	E

2

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
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- RIPRAP (SIZE SPECIFIED IN CALLOUT)
- SLOPE INTERCEPT
- INLET PROTECTION
- X — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 116	E

2

N

428+00

427+00

426+00

425+00

W LINCOLN AVE

EXISTING R/W

TLE

PROPOSED R/W

424+00

MATCHLINE STA 423+50

EXISTING R/W

LEGEND

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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 117	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 23-LI
PLOT DATE : 7/22/2026 11:02 AM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL, FERTILIZER TYPE B, MULCH, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 30
- TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I, TYPE B, SEEDING MIXTURE NO. 40
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- SURFACE WATER FLOW

N

EXISTING R/W

TLE

A D

443+00 'RW'

444+00 'RW'

445+00 'RW'

446+00 'RW'

447+00 'RW'

448+00 'RW'

MATCHLINE STA 448+25

W ROGERS DR

PROPOSED R/W

WETLAND BOUNDARY

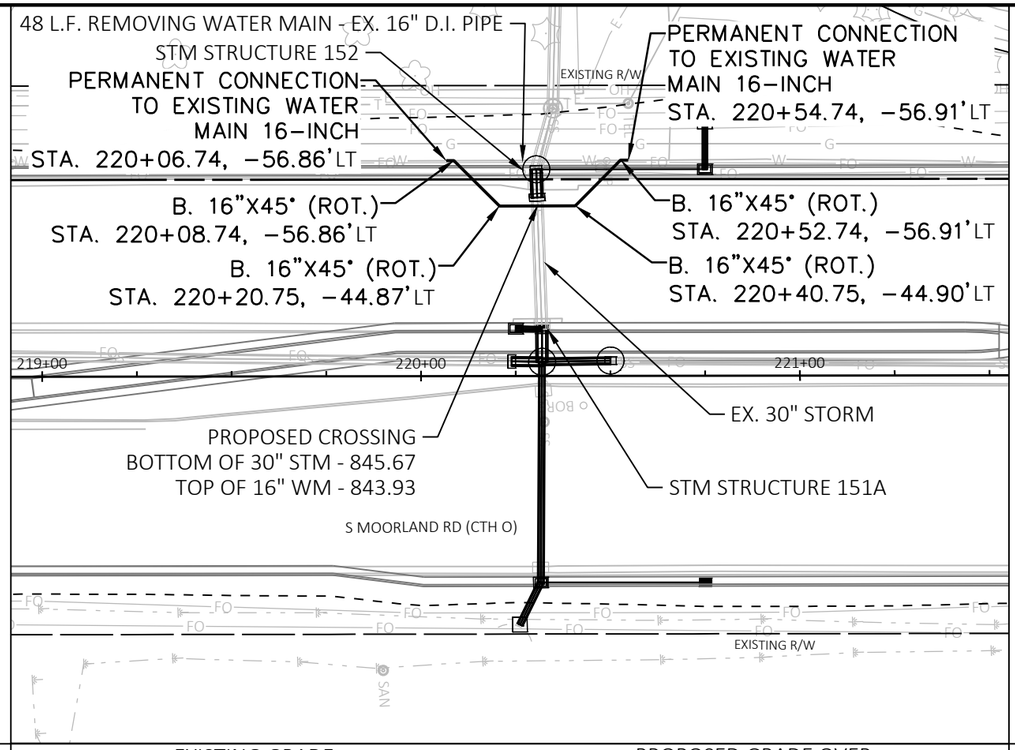
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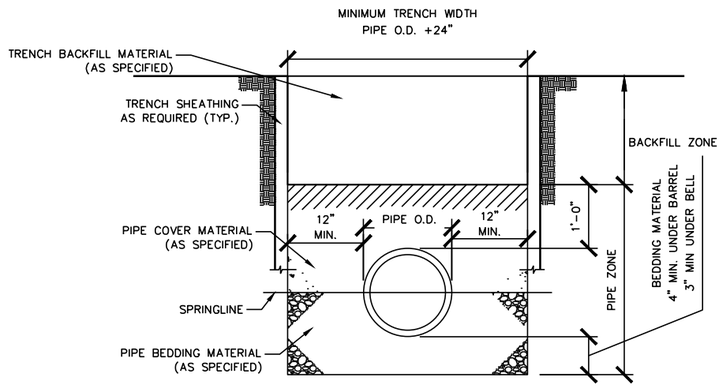
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 118	E

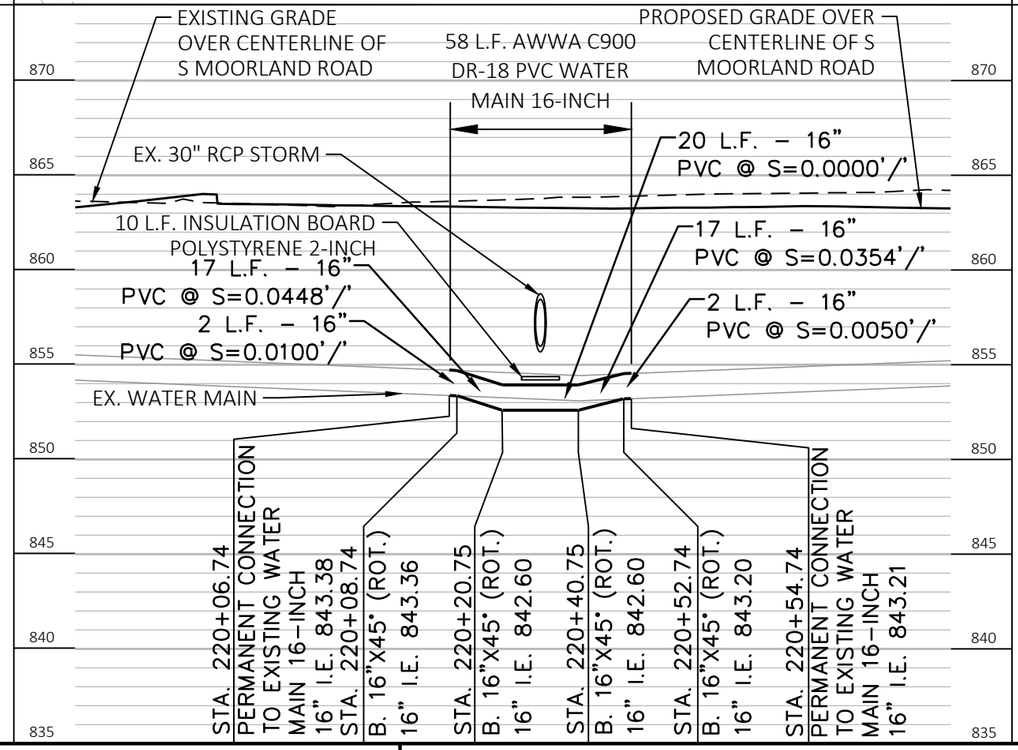
UTILITY NOTES

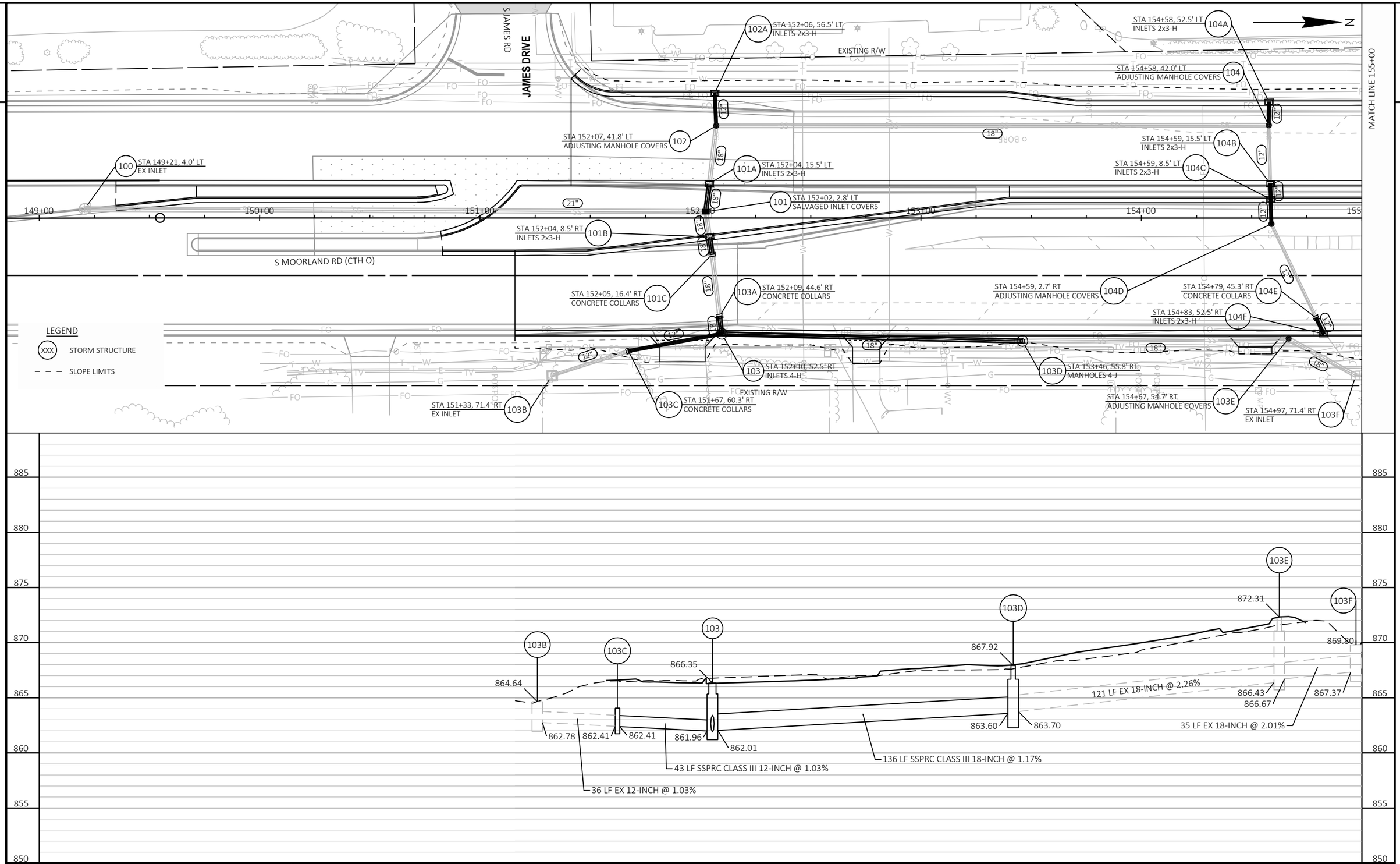
1. PUBLIC WATER MAIN SYSTEM SHALL BE CONSTRUCTED PER SPECIFICATIONS AND TESTED IN PRESENCE OF CITY INSPECTOR.
2. CONTRACTOR SHALL COORDINATE WITH THE CITY OF NEW BERLIN FOR ALL CONSTRUCTION INSPECTION 72 HOURS PRIOR TO COMMENCING WORK.
3. PROPOSED WATER MAIN SHALL REMAIN ISOLATED FROM EXISTING WATER MAIN UNTIL PROPOSED WATER MAIN HAS PASSED ALL REQUIRED TESTS.
4. WATER MAIN BEDDING AND COVER SHALL BE 3/8" LIMESTONE CHIP. WATER MAIN COVER SHALL BE 12-INCHES ABOVE THE TOP OF PIPE.
5. CONTRACTOR SHALL RESTRAIN ALL VALVES, FITTINGS, BENDS, REDUCERS, AND DEAD ENDS AT THE PIPE CONNECTION. RESTRAINING OF PROPOSED WATER MAIN IS INCIDENTAL TO WATER MAIN CONSTRUCTION.
6. CONTRACTOR SHALL COORDINATE WITH THE CITY OF NEW BERLIN FOR ALL REQUIRED EXISTING WATER MAIN SHUTDOWNS.
7. CONTRACTOR SHALL TEST WATER MAIN MAINLINE AND LATERAL TRACER WIRE TRACEABILITY OF THE ENTIRE WATER MAIN SYSTEM INSTALLED WITH THE PRESENCE OF A CITY INSPECTOR ON SITE.
8. CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING INVERTS PRIOR TO INSTALLATION OF PROPOSED UTILITIES.
9. CONTRACTOR SHALL CENTER ONE FULL LENGTH OF WATER PIPE ON SEWER AT WATER MAIN CROSSINGS, THAT BOTH JOINTS WILL BE AS FAR FROM SEWER AS POSSIBLE.
10. PIPE LENGTHS AND INVERTS ARE TO CENTER OF STRUCTURES.
11. SLURRY BACKFILL SHALL BE USED UNDER AND WITHIN 5' OF ALL EXISTING PAVED AREAS.
12. RESTRAINING OF PROPOSED WATER MAIN IS INCIDENTAL TO WATER MAIN CONSTRUCTION.
13. SUPPORTING OF POWER POLES AND UTILITY PEDESTALS ALONG THE ENTIRE PROJECT LIMITS FOR PROPOSED WATER MAIN IS INCIDENTAL TO PROPOSED WATER MAIN CONSTRUCTION.
14. CONTRACTOR SHALL STOCK REPAIR SLEEVES SIZED TO FIT EXISTING MAIN AND SERVICES DURING CONSTRUCTION. FITTINGS SHALL BE KEPT AT PROJECT SITE AT ALL TIMES WHEN ACTIVELY EXCAVATING (INCIDENTAL TO WATER MAIN INSTRUCTION).
15. CONTRACTOR SHALL EXPOSE EXISTING WATER MAIN AT ALL LOCATIONS PRIOR TO START OF CONSTRUCTION TO VERIFY EXACT LOCATION AND INVERT OF EXISTING WATER MAIN. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER TO ALLOW DESIGN MODIFICATIONS AS REQUIRED. WATER MAIN RELAY SHALL BE A MINIMUM 2 FEET AWAY FROM EXISTING MAIN AS LOCATED IN THE FIELD. ELEVATIONS OF EXISTING WATER MAIN BETWEEN CONNECTION POINTS ARE APPROXIMATE BASED ON BEST AVAILABLE RECORDS. PROPOSED WATER MAIN SHALL BE INSTALLED UNDER EXISTING WATER MAIN AND SERVICES TO ALLOW FOR EXISTING WATER MAIN TO REMAIN LIVE THROUGHOUT THE PROJECT. ANY DIFFERENCES BETWEEN EITHER LOCATION OR DEPTH OF EXISTING WATER MAIN SHALL BE INCIDENTAL TO WATER MAIN PRICE.
16. THE CONTRACTOR IS TO EXERCISE GREAT CARE WHEN WORKING IN THE VICINITY OF THE EXISTING WATER MAIN. ALL COSTS OF REPAIRING THE PROPOSED AND/OR EXISTING WATER MAIN DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE INCLUDED IN THE BID PRICE OF WATER MAIN ITEMS, INCLUDING RESTORATION.
17. FOR CONNECTIONS TO EXISTING WATER MAIN, PROVIDE A TEMPORARY 16" PLUG W/2" A.V. DO NOT REMOVE PLUG & A.V. UNTIL A PRESSURE TEST IS COMPLETE AND A SAFE WATER SAMPLE IS OBTAINED. CONTRACTOR SHALL REMOVE/SALVAGE 16" PLUG, 2" A.V.
18. A CITY INSPECTOR FROM CITY OF NEW BERLIN WATER UTILITY SHALL BE PRESENT TO WITNESS ALL WATER MAIN ABANDONMENT.



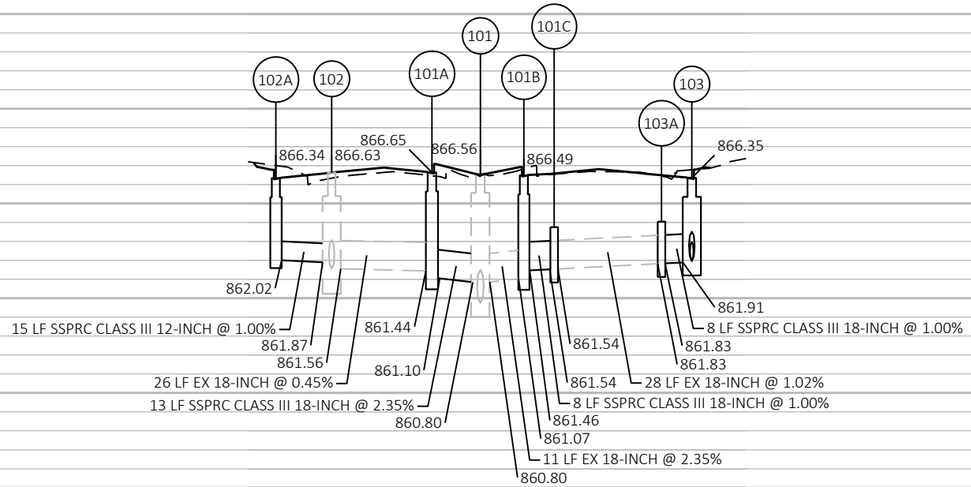


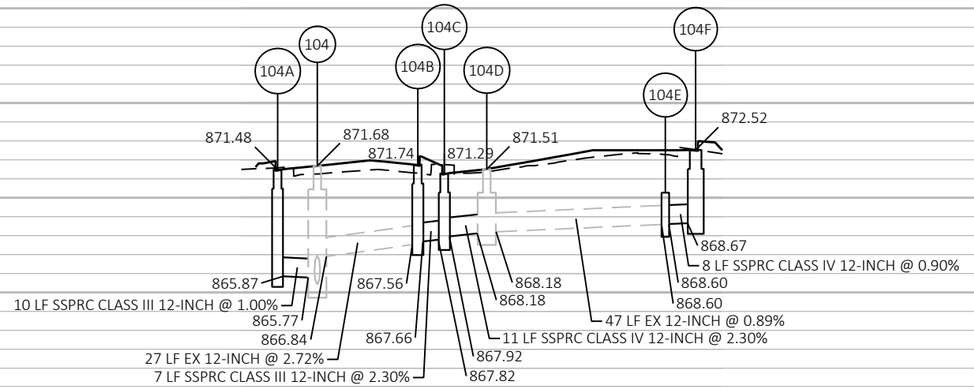
01 WATER MAIN TRENCH DETAIL
SCALE NTS





PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 120 E





PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 121 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-101
PLOT DATE : 7/22/2026 10:53 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

LEGEND
XXX STORM STRUCTURE
SLOPE LIMITS

EXISTING R/W

S MOORLAND RD (CTH O)

MATCH LINE 155+00

MATCH LINE 161+00

STA 158+05, 15.5' LT
INLETS 2x3-H
107C

STA 158+05, 8.5' LT
INLETS 2x3-H
107B

STA 159+46, 45.4' LT
MANHOLES 5-J
107

STA 159+95, 56.5' LT
INLETS 4-H
107E

STA 160+75, 71.4' LT
INLETS MEDIAN 2G-MS
107D

TEMPORARY CONNECTION
REQUIRED TO MAINTAIN
DRAINAGE BETWEEN STAGES.

STA 159+99, 8.0' RT
INLETS 2x3-H
108A

STA 159+99, 14.0' RT
INLETS 2x3-H
108B

STA 159+74, 59.6' RT
INLETS 4-H
108D

STA 354+10, 50.0' LT
INLETS 4-H
108E

STA 354+17, 36.2' LT
MANHOLES 7-J
108

STA 160+07, 63.3' RT
INLETS MEDIAN 2G-M
108C

STA 155+32, 69.5' RT
EX MANHOLE
103G

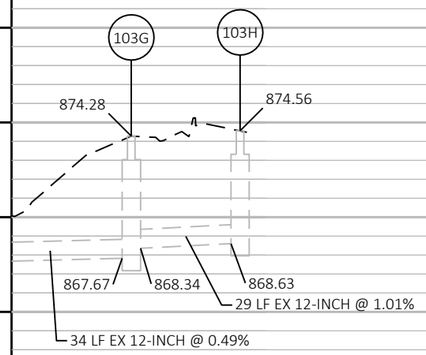
STA 155+39, 97.3' RT
EX MANHOLE
103H

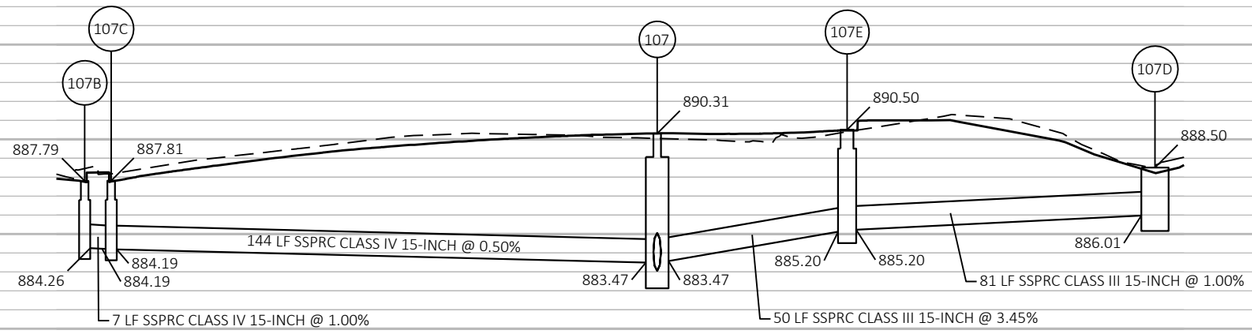
+00 156+00 157+00 158+00 159+00 160+00 161

353+00 354+00

15" 24" 12" 18"

PRW TLE





895 890 885 880 875 870 865 860

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 122 E

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

EXISTING R/W

EXISTING R/W

N

S MOORLAND RD (CTH O)

MATCH LINE 161+00

MATCH LINE 167+00

162+00 163+00 164+00 165+00 166+00

112A STA 165+57, 51.7' LT
INLETS 2x3-H

112B STA 165+63, 5.5' LT
INLETS 4-B

STA 165+34, 5.5' RT
INLETS 4-H

112C

112 STA 165+65, 5.5' RT
MANHOLES 4-J

111 STA 164+20, 5.1' RT
ADJUSTING MANHOLE COVERS

STA 163+45, 63.1' RT
INLETS 4-H-S

111D

111B STA 163+56, 86.4' RT
CONCRETE COLLARS

112D STA 165+62, 51.7' RT
INLETS 2x3-H

W GLENDALE DR

PROPOSED R/W

TLE

EXISTING R/W

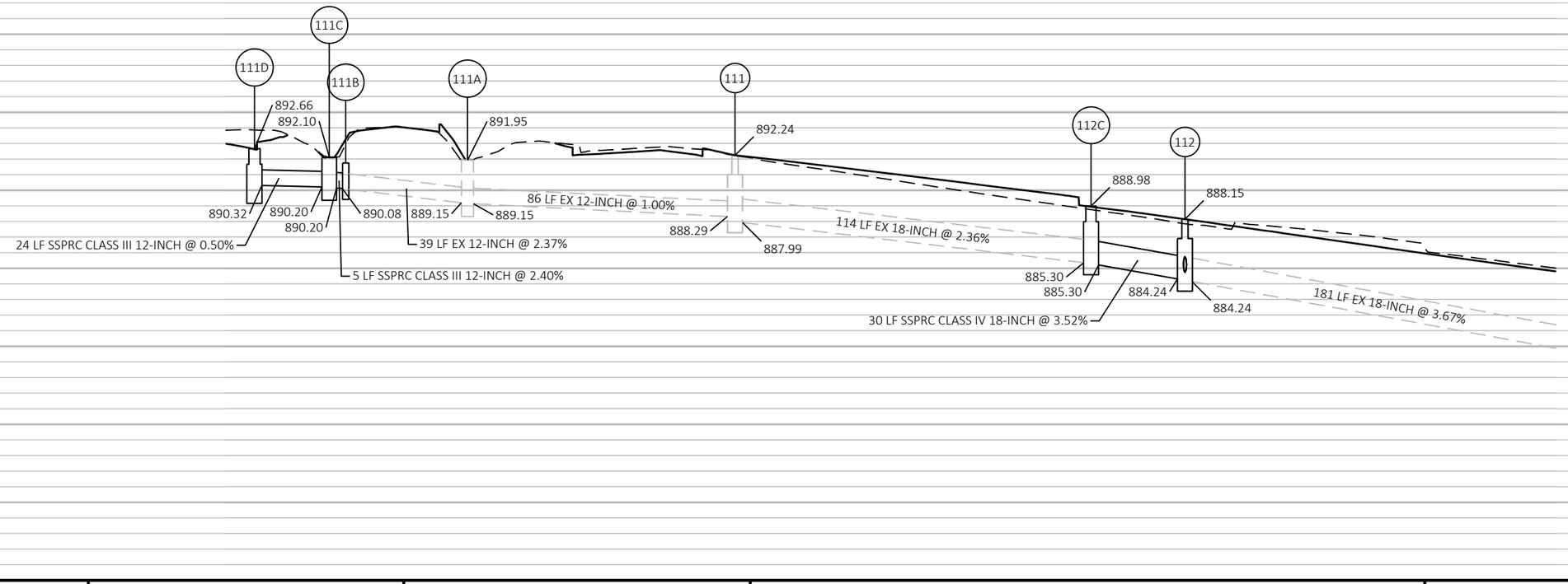
STA 163+51, 86.3' RT
INLETS MEDIAN 1G-MS

111C

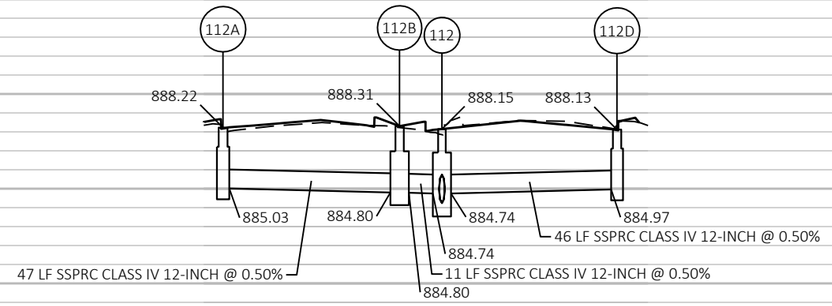
111A STA 163+95, 86.9' RT
EX INLET

TLE

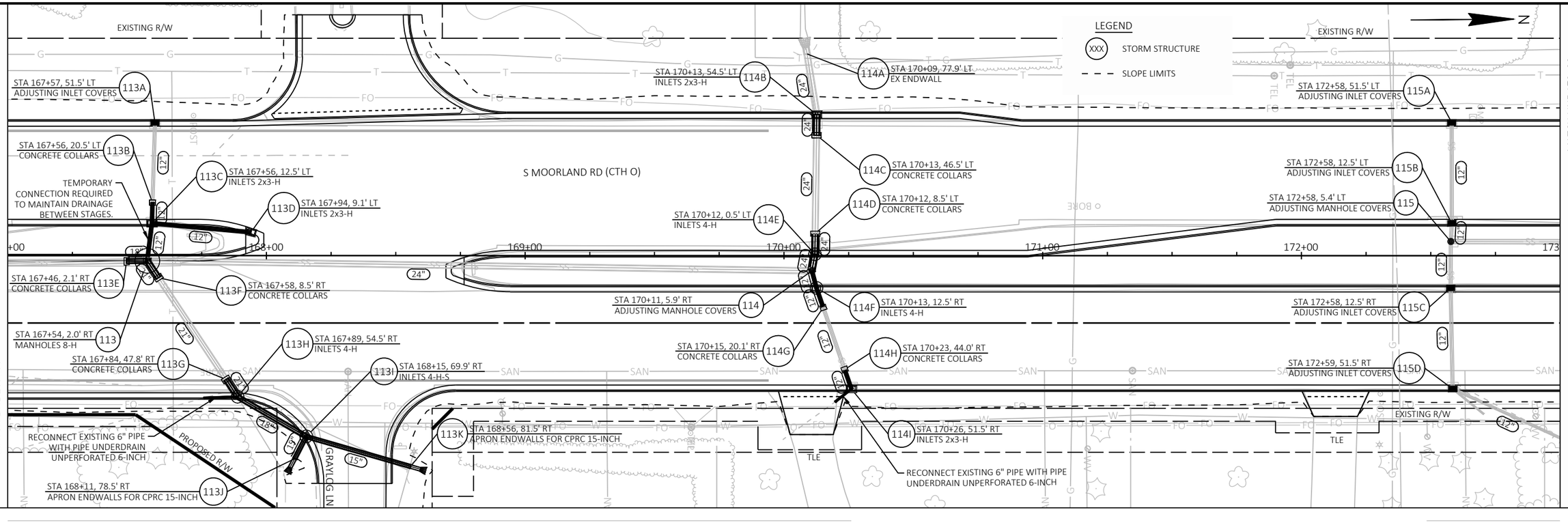
18" 12"

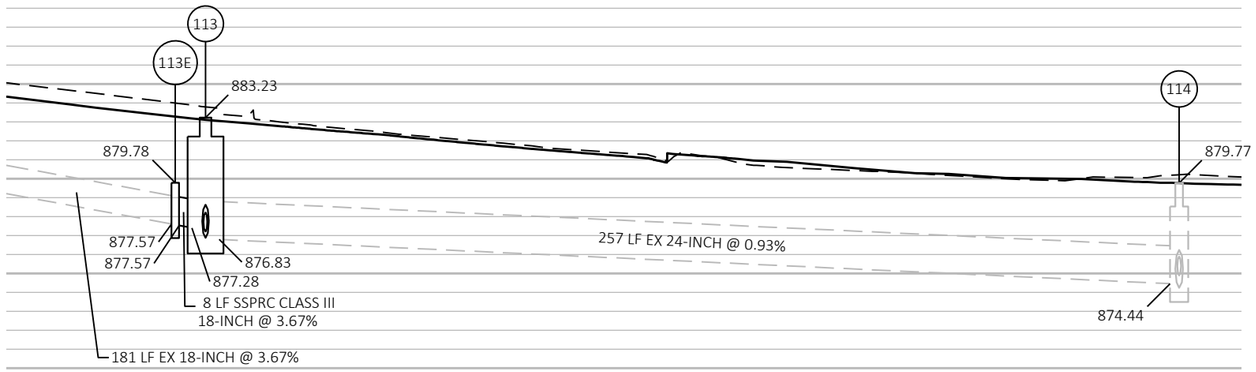


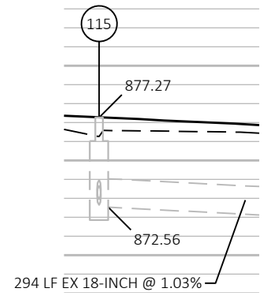
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 123	E



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 124 E

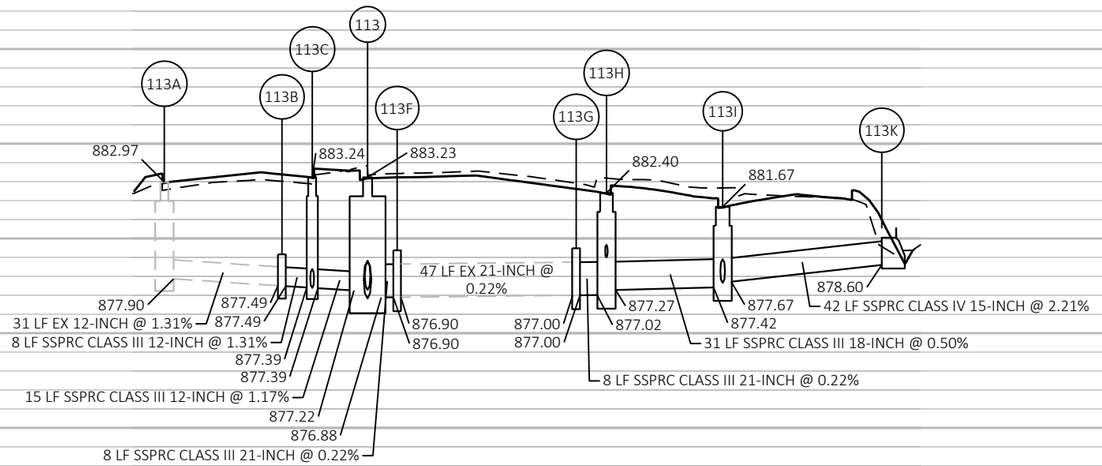


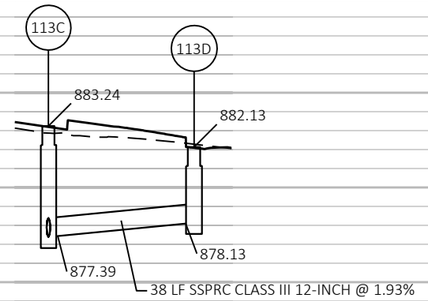


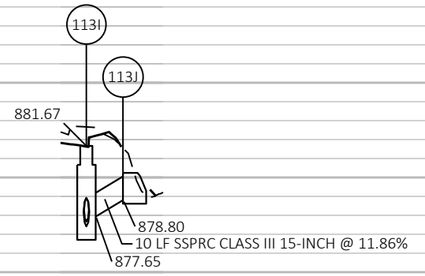


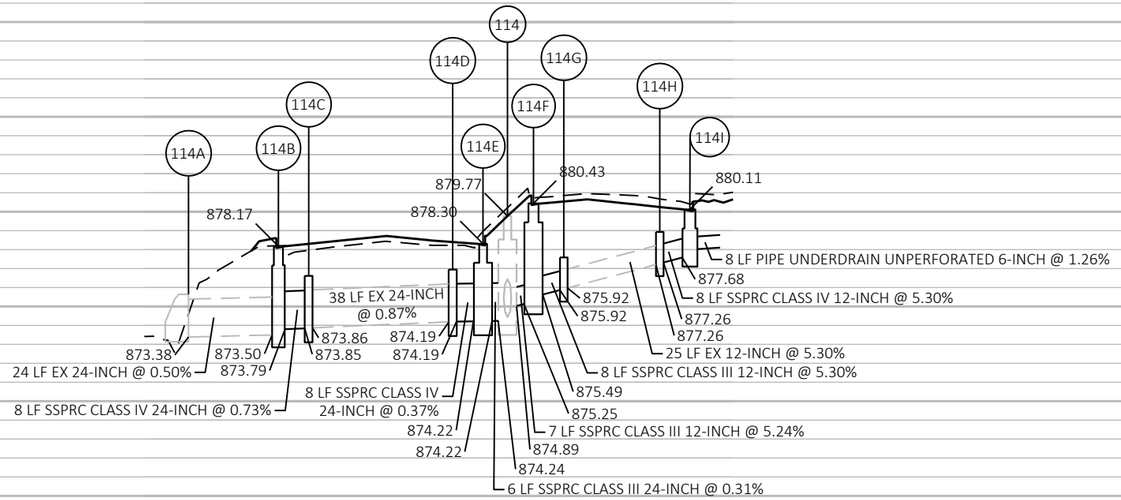
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 125	E

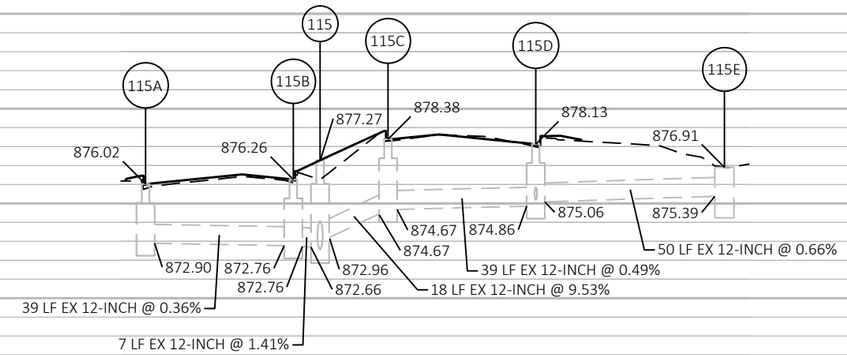
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LAYOUT NAME - 022501-4
PLOT DATE : 7/22/2026 10:54 AM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41











PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 126	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-104
PLOT DATE : 7/22/2026 10:54 AM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

LEGEND
XXX STORM STRUCTURE
SLOPE LIMITS

N

EXISTING R/W

STA 175+90, 91.8' LT
EX ENDWALL
116A

W OVERLAND DR

18"

116B STA 175+79, 51.5' LT
ADJUSTING INLET COVERS

STA 175+59, 19.3' LT
CONCRETE COLLARS
116C

116D STA 175+55, 12.5' LT
INLETS 2x3-H

S MOORLAND RD (CTH O)

MATCH LINE 179+00

MATCH LINE 173+00

174+00 175+00 176+00 177+00 178+00 179

116 STA 175+52, 4.9' LT
MANHOLES 5-B

12"

TEMPORARY CONNECTION
REQUIRED TO MAINTAIN
DRAINAGE BETWEEN STAGES.

116E STA 175+54, 12.5' RT
INLETS 2x3-H

116F STA 175+54, 51.5' RT
INLETS 2x3-H

15"

TLE

115E STA 173+04, 72.2' RT
EX INLET

STA 176+41, 65.6' RT
EX INLET
117

117A STA 176+90, 73.1' RT
EX INLET

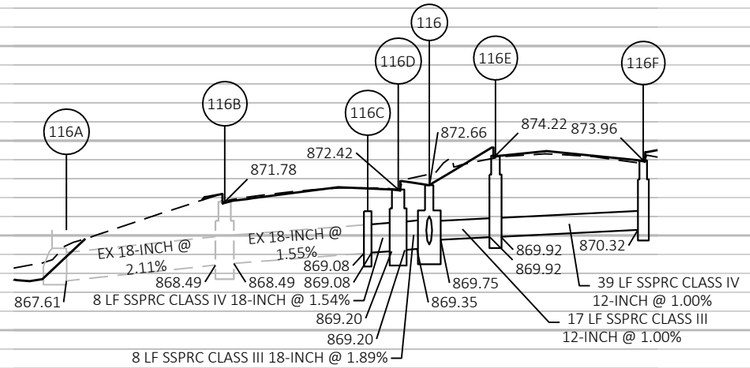
885 880 875 870 865 860 855 850

116
872.66
294 LF EX 18-INCH @ 1.03%
869.52

117
870.48
868.68
358 LF EX 15-INCH @ 1.96%
49 LF EX 15-INCH @ 1.83%

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 127	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-5
PLOT DATE : 7/22/2026 10:54 AM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 128	E

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

EXISTING R/W

S MOORLAND RD (CTH O)

W SCHNEIDER LN

PROPOSED R/W

EXISTING R/W

TLE

MATCH LINE 179+00

MATCH LINE 184+50

118A STA 180+32, 51.5' LT INLETS 2x3-H

STA 180+31, 4.9' LT INLETS 4-B 118C

118B STA 180+32, 12.5' LT INLETS 2x3-H

STA 180+31, 12.5' RT ADJUST INLET COVERS 118D

TEMPORARY CONNECTION REQUIRED TO MAINTAIN DRAINAGE BETWEEN STAGES.

STA 180+52, 45.0' RT CONCRETE COLLARS 118E

STA 180+48, 51.9' RT CONCRETE COLLARS 117B

118 STA 180+56, 51.7' RT MANHOLES 6-J

119A STA 180+84, 79.3' RT MANHOLES 6-H

STA 180+72, 81.0' RT INLETS MEDIAN 1G-MS 119B

119 STA 181+37, 90.8' RT EX MANHOLE

STA 182+64, 2.3' LT CONCRETE COLLARS 120B

STA 182+51, 8.0' LT CONCRETE COLLARS 120A

STA 182+56, 2.2' LT MANHOLES 5-H 120

STA 182+58, 5.5' RT CONCRETE COLLARS 120C

120D STA 182+80, 73.5' RT EX INLET

STA 183+35, 51.5' LT INLETS 2x3-H-S 121A

121B STA 183+50, 51.5' LT INLETS 2x3-H-S

STA 183+50, 12.5' LT INLETS 2x3-H-S 121C

STA 183+38, 3.8' LT CONCRETE COLLARS 121D

STA 183+46, 4.0' LT MANHOLES 6-H 121

STA 183+67, 4.3' LT CONCRETE COLLARS 122B

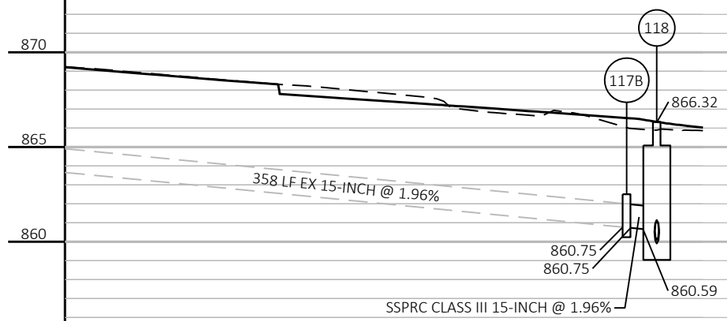
STA 183+36, 54.5' RT INLETS 2x3-H 122D

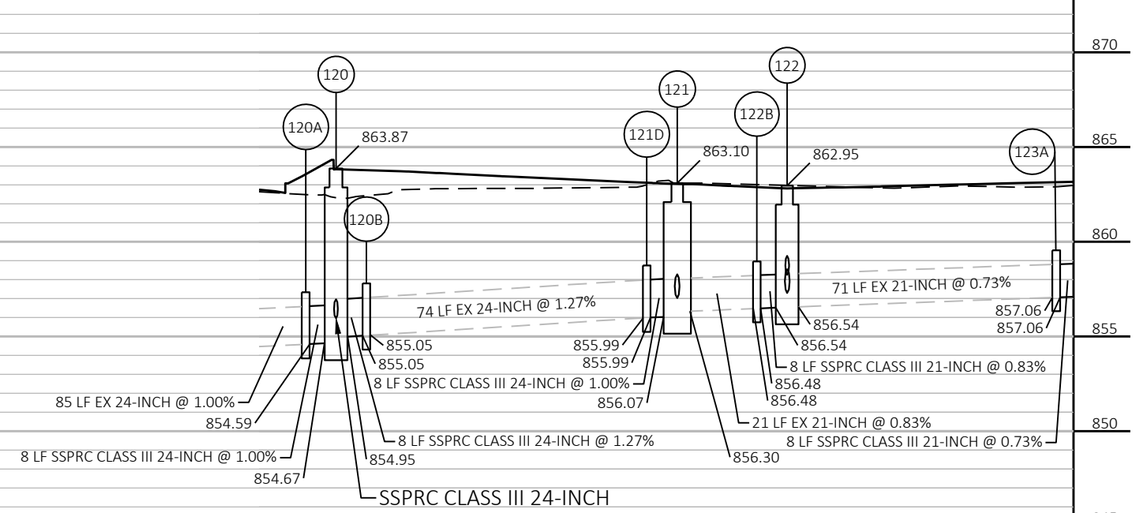
122A STA 183+75, 12.5' LT INLETS 2x3-H

122 STA 183+75, 4.4' LT MANHOLES 5-H

STA 184+46, 5.4' LT CONCRETE COLLARS 123A

122C STA 183+75, 54.5' RT INLETS 2x3-H-S



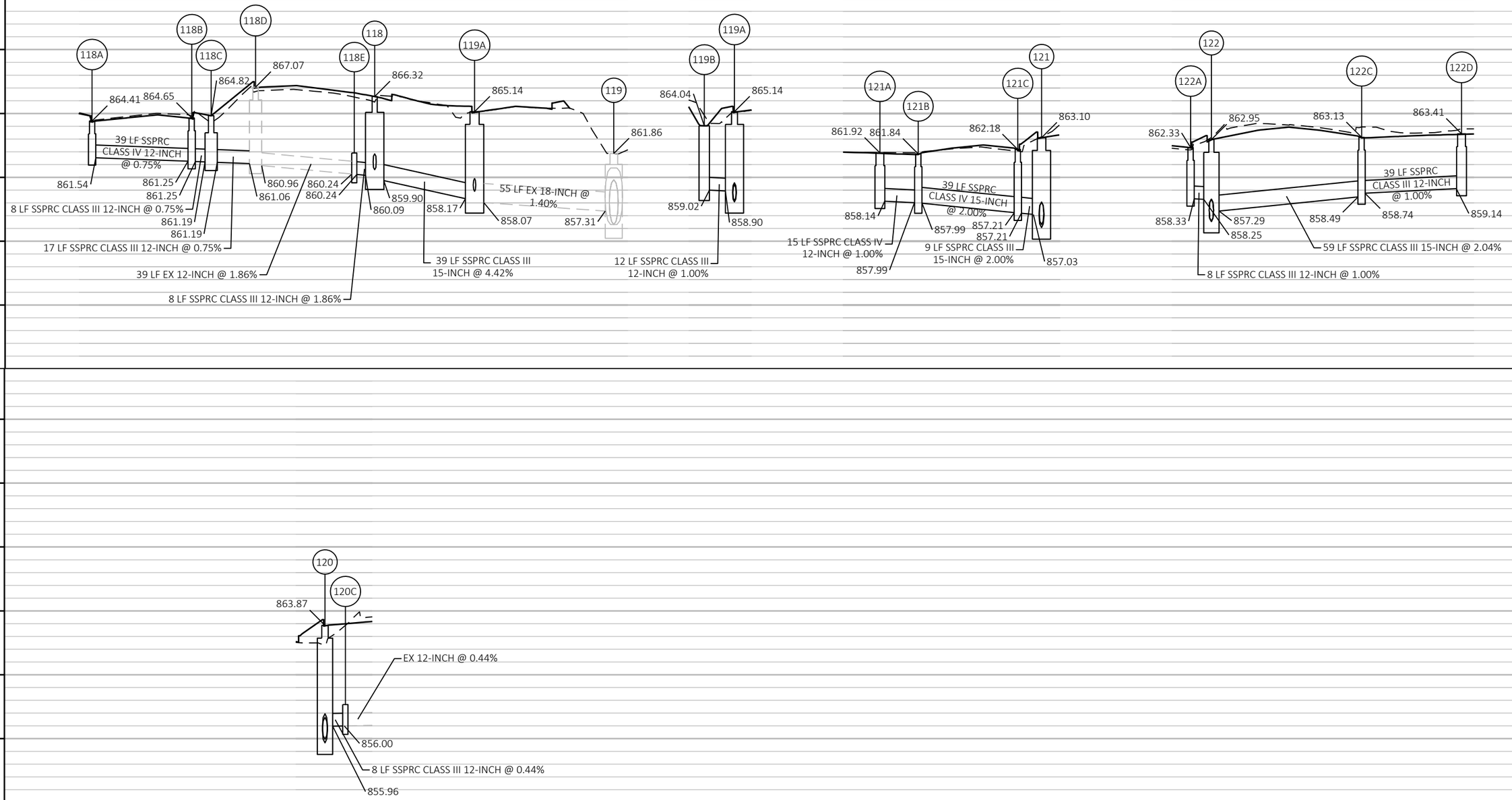


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 129	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-6

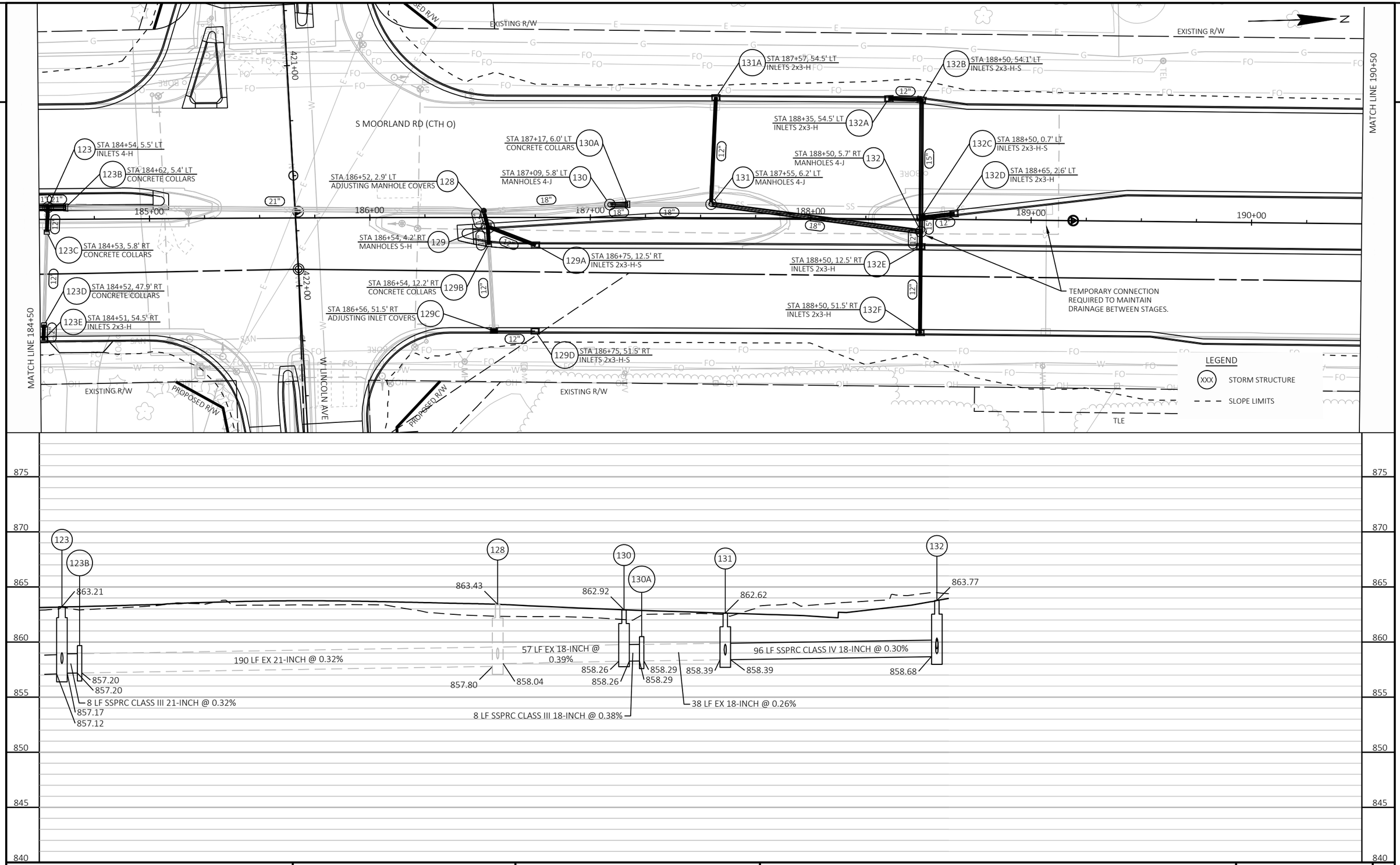
PLOT DATE : 7/22/2026 10:55 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41



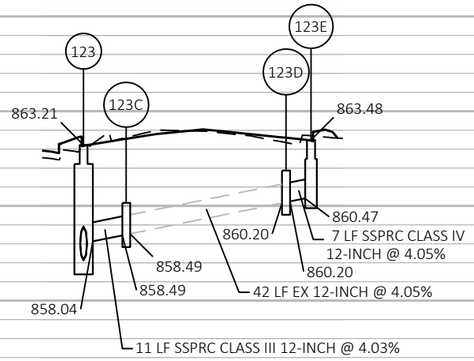
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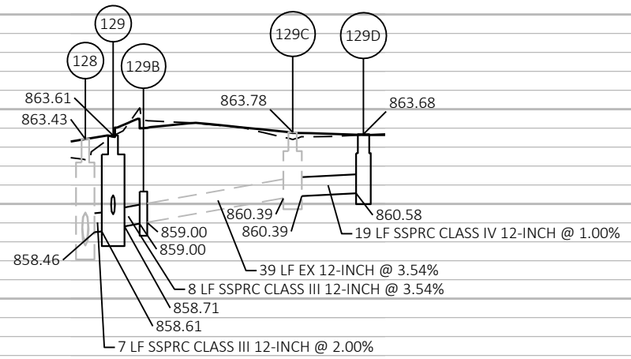
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LAYOUT NAME - 022501-106
PLOT DATE : 7/22/2026 10:55 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

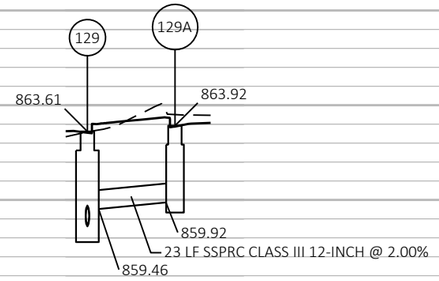


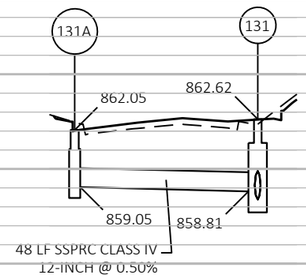
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 131	E

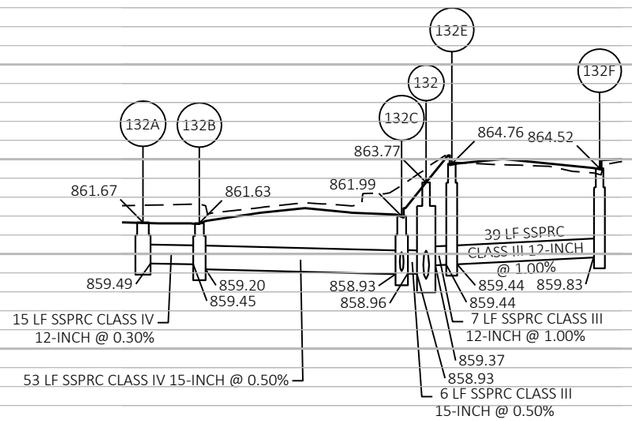
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LAYOUT NAME - 022501-7
PLOT DATE : 7/22/2026 10:55 AM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

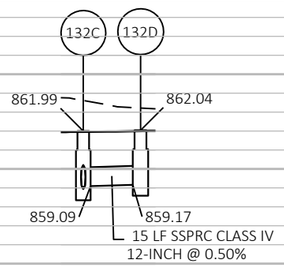












PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 132	E

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

N

EXISTING R/W

EXISTING R/W

S MOORLAND RD (CTH O)

S MOORLAND RD (CTH O)

MATCH LINE 190+50

MATCH LINE 196+50

S CLUB HOUSE DR

133 STA 190+75, 0.0' INLETS 2x2-B

133A STA 190+75, 12.5' RT INLETS 2x3-H-S

133B STA 190+90, 12.5' RT INLETS 2x3-H

133C STA 190+75, 54.5' RT INLETS 2x3-H-S

133D STA 190+90, 54.5' RT INLETS 2x3-H

134 STA 191+58, 4.6' LT ADJUSTING INLET COVERS

134A STA 191+58, 48.0' RT CONCRETE COLLARS

134B STA 191+57, 54.7' RT INLETS 2x3-H

135 STA 192+89, 3.3' LT ADJUSTING MANHOLE COVERS

135A STA 192+86, 77.7' LT EX APRON ENDWALL

135B STA 192+88, 55.5' LT CONCRETE COLLARS

135C STA 192+88, 51.5' LT MANHOLES 5-H

135D STA 192+75, 51.5' LT INLETS 2x3-H-S

135E STA 192+88, 47.5' LT CONCRETE COLLARS

135F STA 192+89, 16.5' LT CONCRETE COLLARS

135G STA 192+89, 12.5' LT MANHOLES 5-H

135H STA 192+75, 12.5' LT INLETS 2x3-H-S

135I STA 192+79, 53.0' RT INLETS 2x3-H-S

136 STA 194+98, 5.5' LT MANHOLES 6-H

136A STA 195+07, 51.5' LT ADJUSTING INLET COVERS

136B STA 195+06, 12.5' LT INLETS 4-H

136C STA 194+75, 4.8' LT INLETS 4-H

136D STA 194+60, 51.5' RT ADJUSTING INLET COVERS

136E STA 194+50, 51.5' RT INLETS 2x3-H-S

191+00 192+00 193+00 194+00 195+00 196+00

875 870 865 860 855 850 845 840

133 134 135 136C 136

863.24 863.03 863.99 865.10 865.30

861.00 860.58 860.48 859.43 859.43 860.12 860.12 860.20

83 LF SSPRC CLASS IV 12-INCH @ 0.50%

130 LF EX 18-INCH @ 0.81%

186 LF EX 18-INCH @ 0.37%

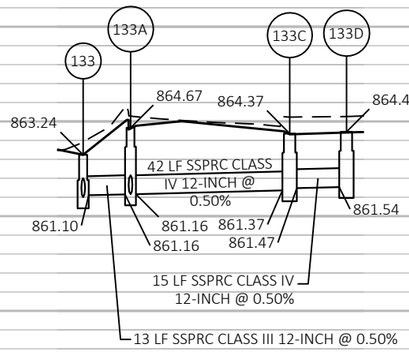
23 LF SSPRC CLASS III 18-INCH @ 0.37%

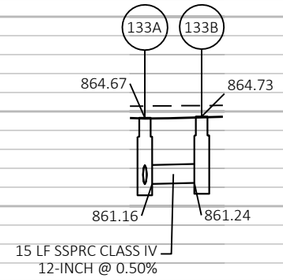
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 133 E

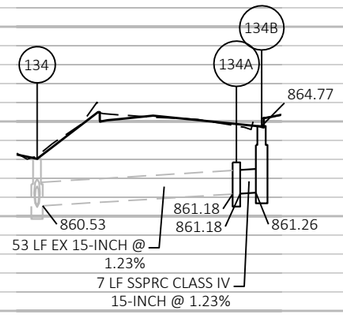
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LAYOUT NAME - 022501-8

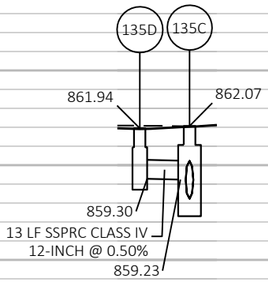
PLOT DATE : 7/22/2026 10:55 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

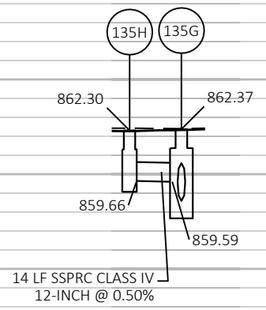
WISDOT/CADDS SHEET 41

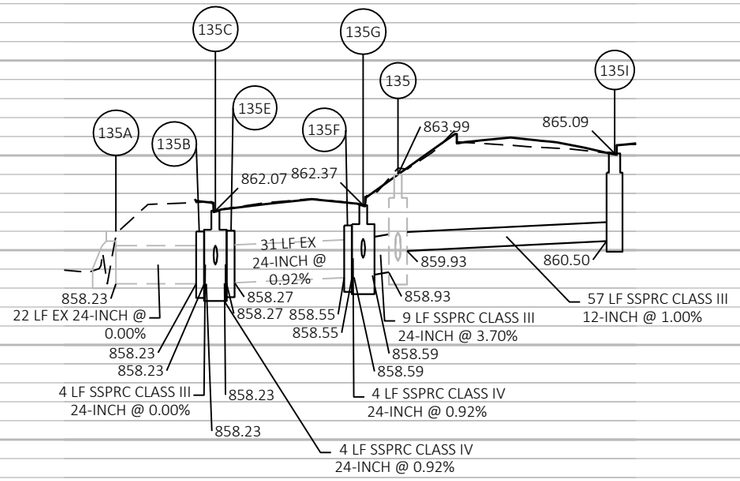


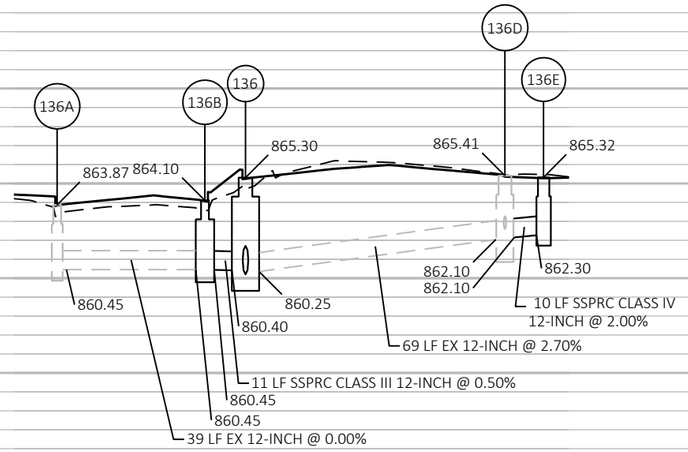












PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 134 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-108
PLOT DATE : 7/22/2026 10:55 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

137A STA 196+75, 12.5' LT INLETS 2x3-H

137B STA 196+75, 5.5' LT INLETS 2x3-H-S

137C STA 196+75, 54.5' RT INLETS 2x3-H-S

137 STA 197+59, 5.5' LT SALVAGED MANHOLE COVERS

TEMPORARY CONNECTION REQUIRED TO MAINTAIN DRAINAGE BETWEEN STAGES.

140 STA 197+71, 70.8' RT ADJUSTING MANHOLE COVERS

140A STA 198+57, 60.9' RT INLETS 4-H-S

140B STA 197+81, 79.5' RT INLETS 4-H

141A STA 198+96, 54.5' LT INLETS 2x3-H

141B STA 198+72, 5.0' LT CONCRETE COLLARS

141 STA 198+91, 4.5' LT MANHOLES 4-J

141C STA 198+91, 5.4' RT INLETS 2x3-H

141D STA 198+91, 11.2' RT INLETS 2x3-H

142A STA 201+58, 51.5' LT ADJUSTING INLET COVERS

142B STA 201+57, 15.7' LT CONCRETE COLLARS

142C STA 201+57, 9.1' LT INLETS 4-H

142 STA 201+49, 3.2' RT ADJUSTING INLET COVERS

142D STA 201+57, 12.5' RT ADJUSTING INLET COVERS

142E STA 201+57, 51.5' RT ADJUSTING INLET COVERS

EP: 450+00.00

S MOORLAND RD (CTH O)

WOODVIEW DR

EXISTING R/W

PROPOSED R/W

197+00 198+00 199+00 200+00 201+00 202+00

137B 865.31

137 865.88

141B 862.16

141 866.61

142 868.43

84 LF SSPRC CLASS IV 15-INCH @ 1.00%

113 LF EX 18-INCH @ 1.36%

860.37 860.62

861.21

19 LF SSPRC CLASS IV 18-INCH @ 1.36%

862.16 862.42 862.46

258 LF EX 18-INCH @ 0.91%

864.81

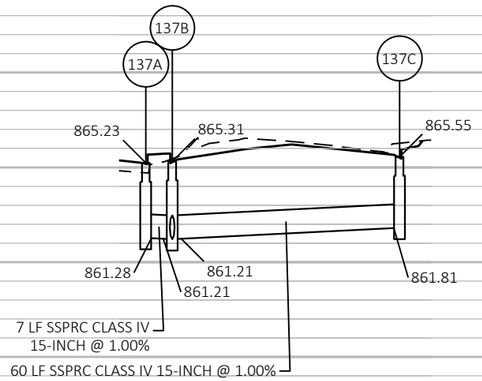
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 135 E

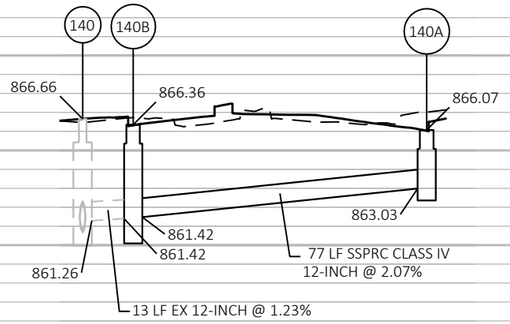
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LAYOUT NAME - 022501-9

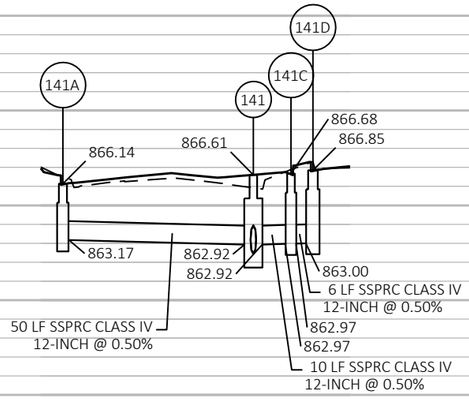
PLOT DATE : 7/22/2026 10:56 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

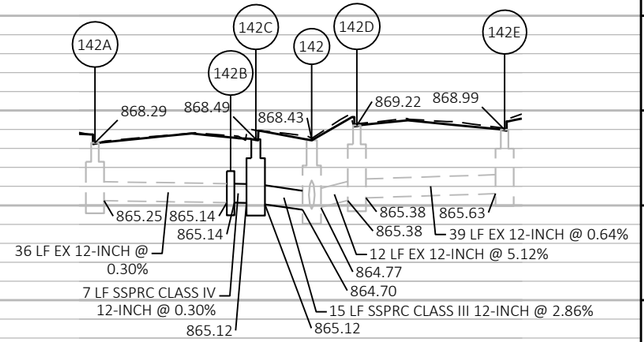
WISDOT/CADDS SHEET 41

880
875
870
865
860
855
850
845









880
875
870
865
860
855
850
845

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 136	E

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

EXISTING R/W

S MOORLAND RD (CTH O)

MATCH LINE 202+50

MATCH LINE 208+50

203+00 204+00 205+00 206+00 207+00 208+00

143A STA 205+89, 51.5' LT INLETS 2x3-H

143B STA 205+85, 11.5' LT INLETS 2x3-H

143 STA 205+83, 4.7' LT SALVAGED MANHOLE COVERS

143C STA 205+74, 0.5' RT INLETS 4-H

143D STA 206+06, 48.8' RT CONCRETE COLLARS

143E STA 206+09, 55.8' RT INLETS 4-H-S

143F STA 206+22, 85.8' RT INLETS MEDIAN 1G-MS

143G STA 206+26, 86.2' RT CONCRETE COLLARS

143H STA 206+74, 90.8' RT EX INLET

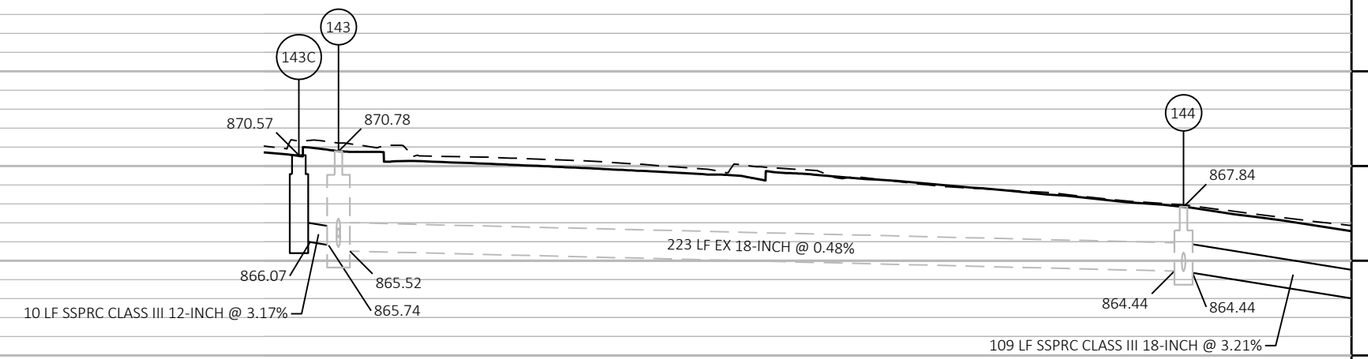
144A STA 208+06, 54.5' LT INLETS 2x3-H

144B STA 208+05, 0.5' LT INLETS 2x3-H

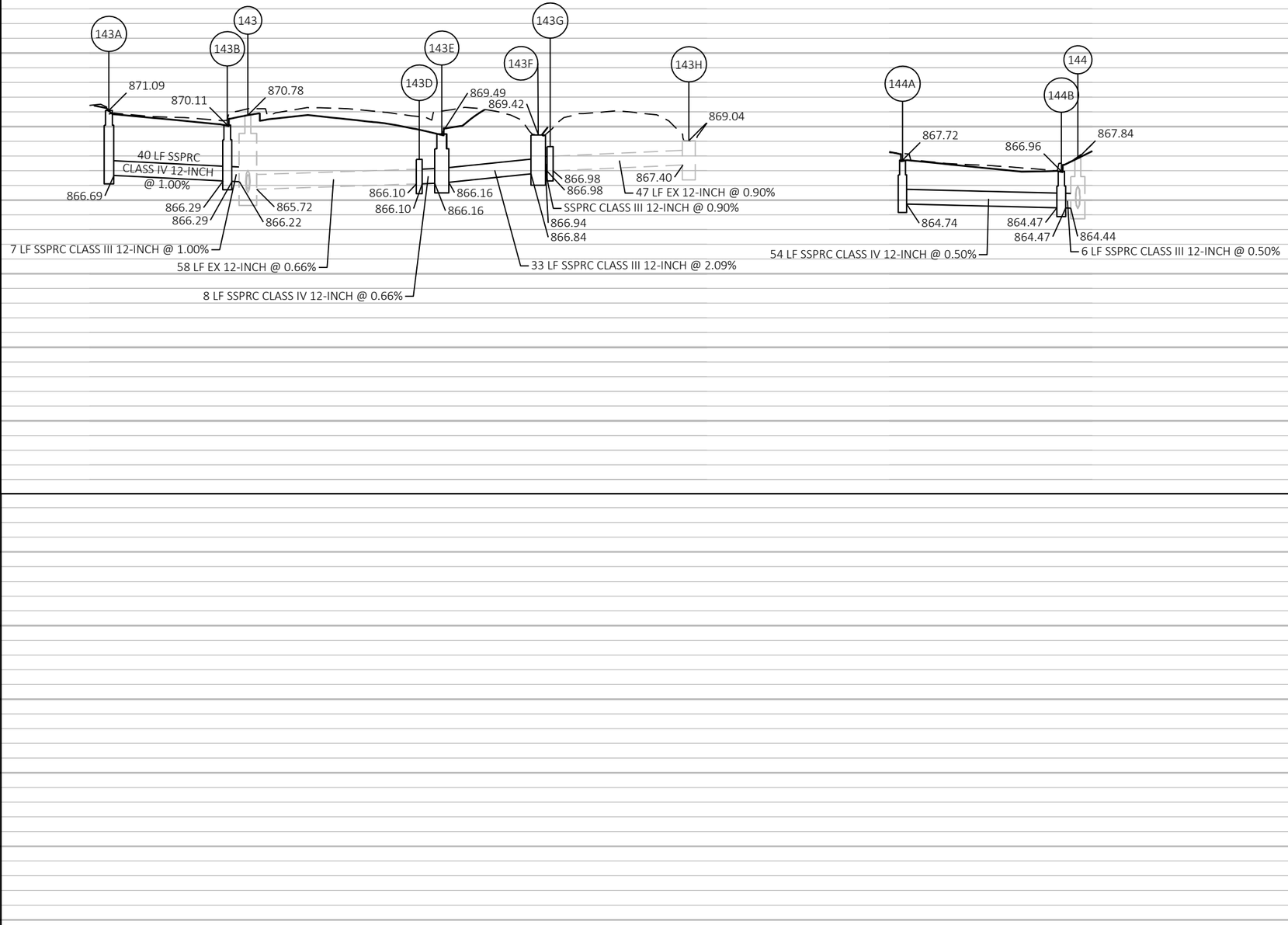
144 STA 208+06, 5.1' RT SALVAGED MANHOLE COVERS

W ROGERS DR

12" 18"



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 137	E



880
875
870
865
860
855
850
845

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

MATCH LINE 208+50

MATCH LINE 214+50

145 STA 209+15, 2.0' LT INLETS 4-H

145A STA 209+09, 51.5' RT INLETS 2x3-H

TEMPORARY CONNECTION REQUIRED TO MAINTAIN DRAINAGE BETWEEN STAGES.

RECONNECT EXISTING 8" PIPE WITH PIPE UNDERDRAIN UNPERFORATED 8-INCH

146A STA 211+40, 62.3' LT EX. ENDWALL 18-INCH

147 STA 211+48, 68.2' LT EX. ENDWALL 18-INCH

148 STA 211+72, 64.9' LT EX. ENDWALL 18-INCH

147B STA 211+54, 12.0' LT EX. INLET

146B STA 211+37, 16.5' LT CONCRETE COLLARS

146C STA 211+37, 12.5' LT INLETS 2x3-H

147A STA 211+48, 50.3' LT EX. INLET

149A STA 213+83, 51.5' LT ADJUSTING INLET COVERS

149 STA 214+13, 3.2' LT EX INLETS WITH NEW B COVER

146 STA 211+36, 1.1' RT INLETS MEDIAN 1G-MS

147C STA 211+57, 11.6' RT EX. INLET

147D STA 211+63, 50.3' RT EX. INLET

148A STA 211+91, 63.7' RT EX. ENDWALL 18-INCH

149B STA 214+04, 10.3' RT INLETS 2x3-H

147E STA 211+64, 67.2' RT EX. ENDWALL 18-INCH

EXISTING R/W

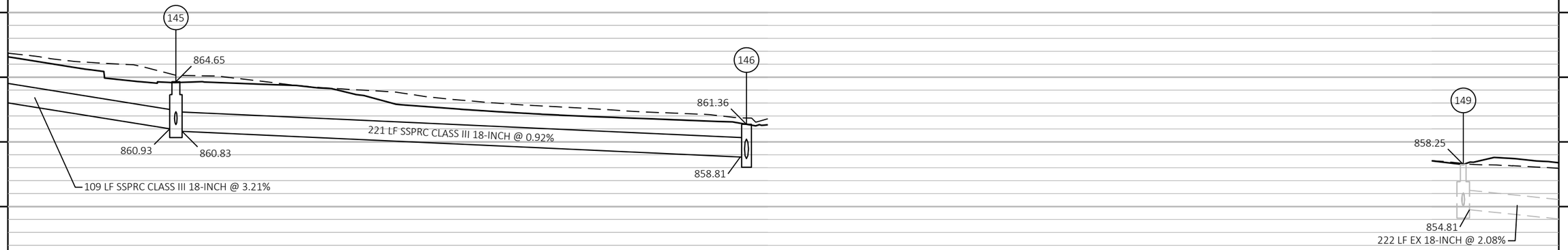
S MOORLAND RD (CTH O)

UNION PACIFIC RAIL

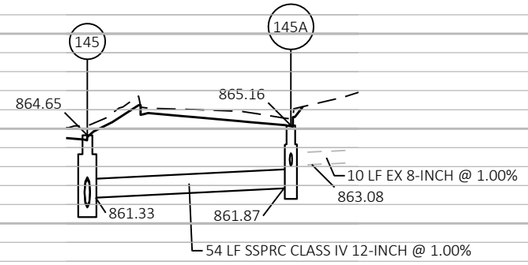
NEW BERLIN TRAIL

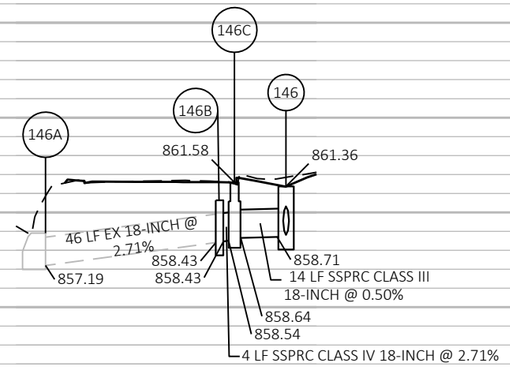
209+00 210+00 211+00 212+00 213+00 214+00

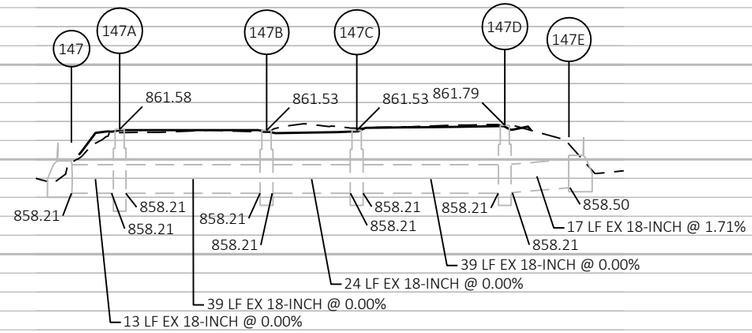
18" 12"

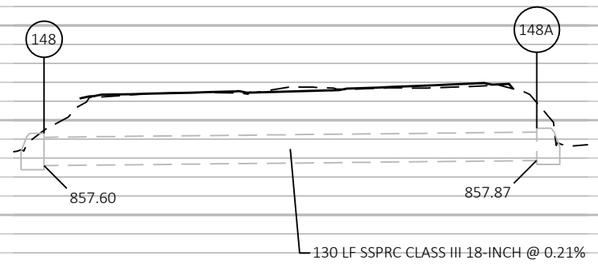


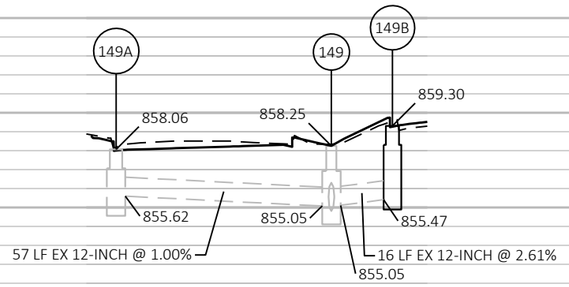
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 139	E











PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 140 E

2

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

N

W ROBIN RD

S MOORLAND RD (CTH O)

EXISTING R/W

EXISTING R/W

MATCH LINE 214+50

MATCH LINE 220+50

150A STA 216+58, 51.6' LT
ADJUSTING INLET COVERS

150B STA 216+44, 12.5' LT
INLETS 4-H

150C STA 216+35, 5.9' LT
CONCRETE COLLARS

150 STA 216+48, 5.9' LT
MANHOLES 6-H

150D STA 216+45, 54.5' RT
INLETS 2x3-H

152A STA 220+35, 70.5' LT
EX MANHOLE

152 STA 220+30, 54.5' LT
MANHOLES 6-H

152D STA 220+31, 47.1' LT
CONCRETE COLLARS

151A STA 220+32, 12.3' LT
EX INLET-H-S

151B STA 220+25, 12.5' LT
INLETS 2x3-H-S

151G STA 220+24, 3.8' LT
CONCRETE COLLARS

151 STA 220+32, 3.7' LT
MANHOLES 6-J

151E STA 220+32, 54.5' RT
INLETS 2x3-H

151F STA 220+26, 65.6' RT
INLETS MEDIAN 1G-MS

215+00 216+00 217+00 218+00 219+00 220+00

870 865 860 855 850 845 840 835

150 150C 855.25

222 LF EX 18-INCH @ 2.08%

850.19
850.19

849.89
849.93

13 LF SSPRC CLASS III 18-INCH @ 2.08%

376 LF EX 24-INCH @ 0.39%

151 151G 853.15

848.43
848.43
8 LF SSPRC CLASS III 24-INCH @ 0.39%

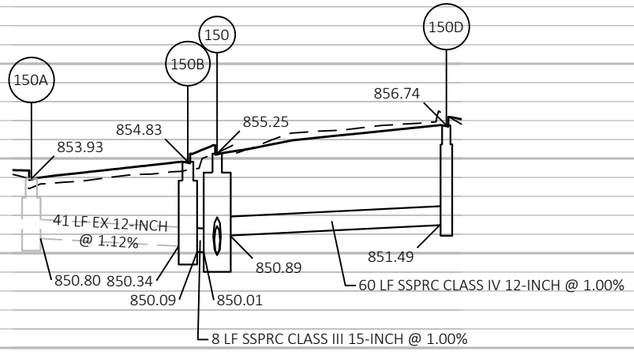
848.40
848.77
18 LF SSPRC CLASS III 18-INCH @ 0.41%

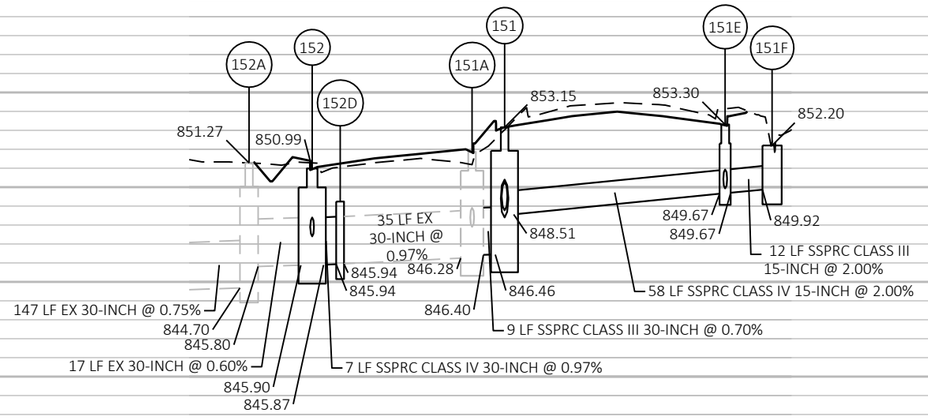
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 141	E

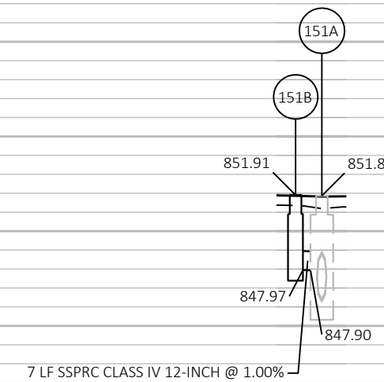
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LAYOUT NAME - 022501-12

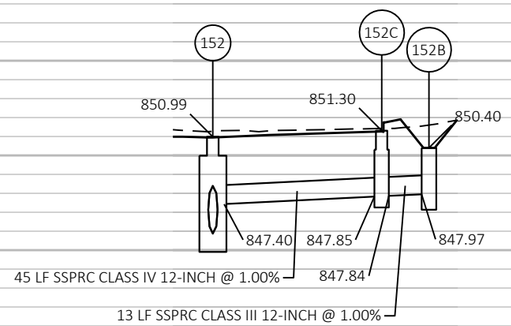
PLOT DATE : 7/22/2026 10:57 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

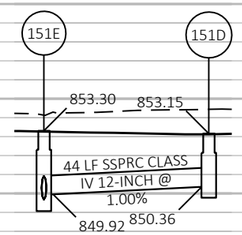
WISDOT/CADDS SHEET 41











PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 142	E

152B STA 220+75, 67.0' LT
INLETS MEDIAN 1G-MS

152C STA 220+75, 54.5' LT
INLETS 2x3-H

153A STA 222+73, 54.5' LT
INLETS 2x3-H

154A STA 225+22, 54.5' LT
INLETS 2x3-H

151C STA 220+50, 4.0' LT
MANHOLES 6-H-S

STA 222+55, 2.5' LT
MANHOLES 4-J
153

STA 225+22, 0.4' RT
MANHOLES 5-H
154

155 STA 225+39, 6.0' LT
MANHOLES 4-J

TEMPORARY CONNECTION
REQUIRED TO MAINTAIN
DRAINAGE BETWEEN STAGES.

STA 222+74, 12.2' RT
INLETS 4-H
153B

STA 225+28, 12.5' RT
INLETS 4-H
154B

TEMPORARY CONNECTION
REQUIRED TO MAINTAIN
DRAINAGE BETWEEN STAGES.

151D STA 220+75, 54.5' RT
INLETS 2x3-H-S

S MOORLAND RD (CTH O)

STA 222+55, 55.7' RT
INLETS 4-H
153C

154C STA 225+08, 51.5' RT
ADJUSTING INLET COVERS

W BROOK DR

W RIDGE RD

EXISTING R/W

EXISTING R/W

MATCH LINE 220+50

MATCH LINE 226+50

TLE

BORE

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

221+00 222+00 223+00 224+00 225+00 226+00

870 865 860 855 850 845 840 835

151C

153

853.08

853.72

205 LF EX 18-INCH @ 0.41%

849.68

848.84

848.84

154

155

852.71

852.71

277 LF EX 18-INCH @ 0.55%

848.96

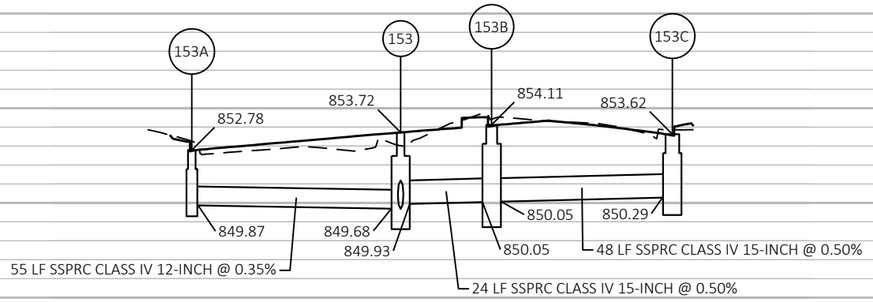
848.17

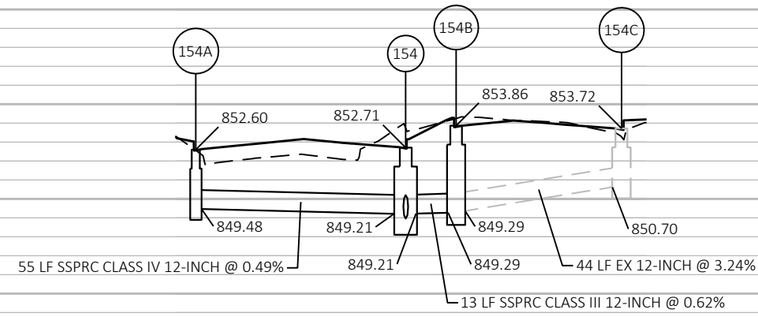
848.87

18 LF SSPRC CLASS IV 15-INCH @ 0.47%

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 143	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-13
PLOT DATE : 7/22/2026 10:57 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41





PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 144	E

2

TLE

EXISTING R/W

S MOORLAND RD (CTH O)

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

N

156A STA 228+11, 51.5' LT INLETS 2x3-H

156B STA 228+11, 12.5' LT INLETS 2x3-H

156 STA 228+16, 3.9' LT ADJUSTING INLET COVERS

156C STA 228+15, 4.6' RT CONCRETE COLLARS

156D STA 228+13, 12.5' RT INLETS 2x3-H

156E STA 228+06, 51.5' RT ADJUST INLET COVERS

157A STA 231+06, 50.9' RT CONCRETE COLLARS

157B STA 231+06, 54.9' RT INLETS 2x3-H

NO STRUCTURE FOUND, BURIED?

18" 12" 12" 12" 12" 18"

227+00 228+00 229+00 230+00 231+00 232+00

MATCH LINE 226+50

EXISTING R/W

870 865 860 855 850 845 840 835

156

850.90

277 LF EX 18-INCH @ 0.55%

290 LF EX 18-INCH @ 1.00%

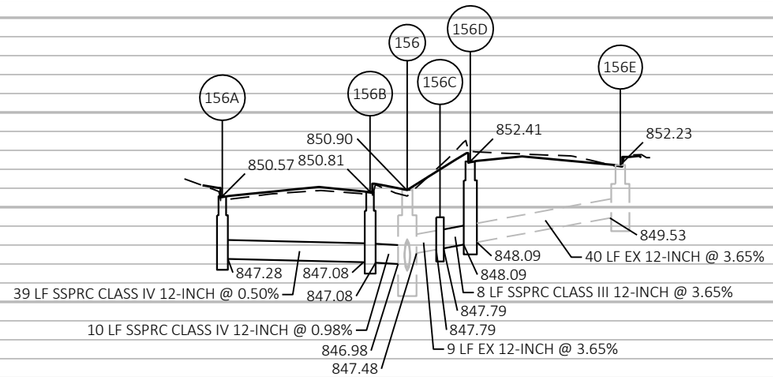
846.64 846.80

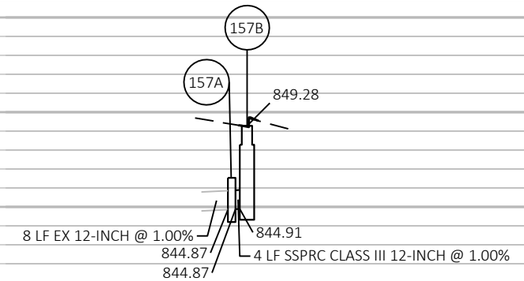
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 145	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-14

PLOT DATE : 7/22/2026 10:57 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41





PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 146 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-114
PLOT DATE : 7/22/2026 10:58 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

106A STA 347+18, 76.8' LT
EX ENDWALL

EXISTING R/W

106 STA 349+05, 31.6' LT
MANHOLES 4-J

105B STA 347+14, 38.0' LT
APRON ENDWALLS FOR CPRC 12-INCH

STA 348+97, 33.5' LT
CONCRETE COLLARS 106B

106C STA 349+13, 31.6' LT
CONCRETE COLLARS

105A STA 347+18, 1.4' LT
INLETS 2x3-H

105 STA 347+18, 3.7' RT
INLETS 2x3-H

W CLEVELAND AVE (CTH D)

PI: 350+45.65

STA 352+23, 37.6' LT
INLETS 4-H 107A

STA 159+46, 45.4' LT
MANHOLES 5-J 107

TEMPORARY CONNECTION
REQUIRED TO MAINTAIN
DRAINAGE BETWEEN STAGES

MATCH LINE STA 353+00

S MOORLAND RD (CTH O)

LEGEND
XXX STORM STRUCTURE
SLOPE LIMITS

EXISTING R/W
PROPOSED R/W

+00 348+00 349+00 350+00 351+00 352+00 353+00 160+00

895 890 885 880 875 870 865 860

106A 106 106B 106C 107A 107

883.86 889.20 890.31

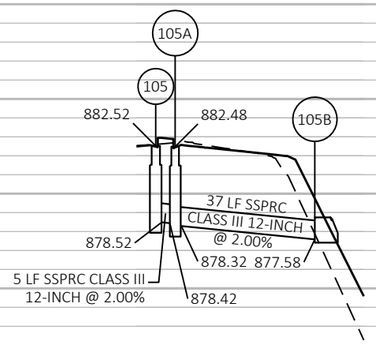
875.58 874.88 875.42 875.42

881.66 881.66 883.05 883.05

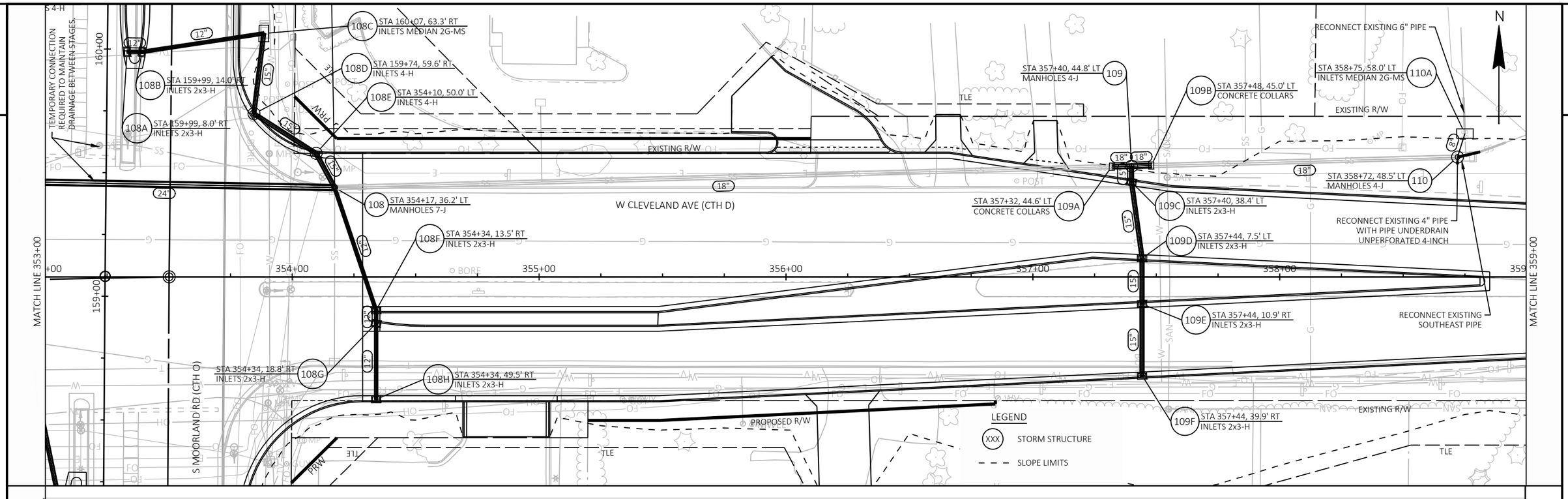
184 LF EX 24-INCH @ 6.75%
8 LF SSPRC CLASS III 24-INCH @ 6.75%
8 LF SSPRC CLASS III 24-INCH @ 1.95%
312 LF EX 24-INCH @ 1.95%
56 LF SSPRC CLASS III 24-INCH @ 2.48%
138 LF SSPRC CLASS IV 24-INCH @ 2.14%

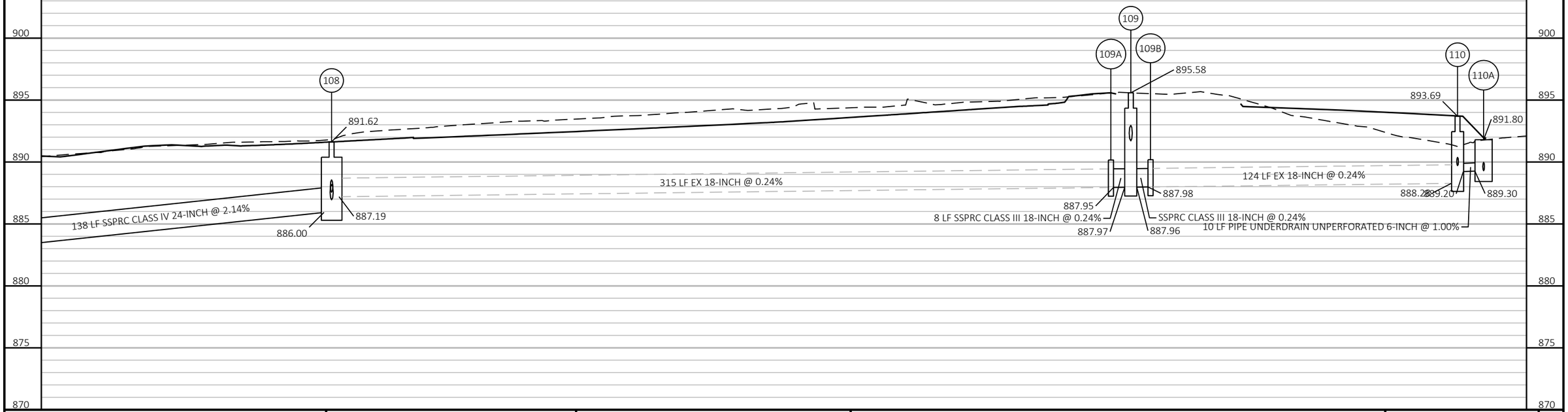
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 147	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-015
PLOT DATE : 7/22/2026 10:58 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

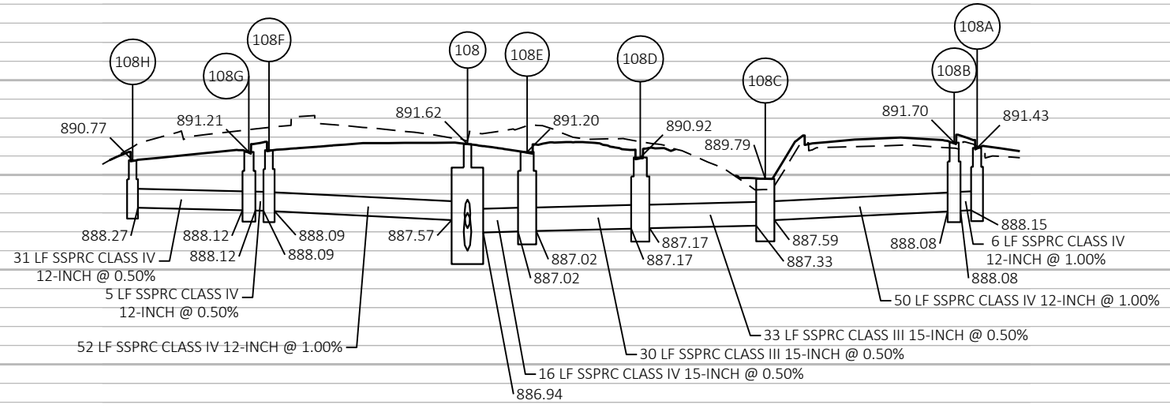


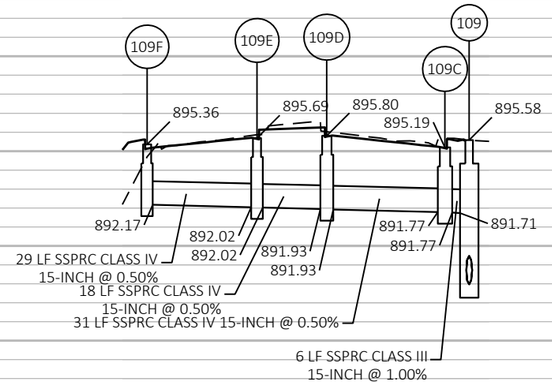
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 148 E





PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 149	E





910 905 900 895 890 885 880 875

2

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

N

MATCH LINE 359+00

359+00 360+00 361+00 362+00 363+00 364+00 365+00

EP: 365+00.10

W CLEVELAND AVE (CTH D)

EXISTING R/W

EXISTING R/W

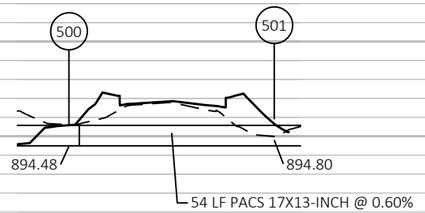
EXISTING R/W

PACS 17X13-INCH @ 0.60%

501 STA 360+46, 44.0' RT
APRON ENDWALLS FOR PIPE ARCH STEEL 17x13-INCH

500 STA 359+92, 48.0' RT
APRON ENDWALLS FOR PIPE ARCH STEEL 17x13-INCH

TLE



910 905 900 895 890 885 880 875

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 151	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-016A
PLOT DATE : 7/22/2026 10:59 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

124A STA 415+94, 37.7' LT EX INLET

125A STA 416+07, 12.9' RT CONCRETE COLLARS

126A STA 417+21, 26.6' LT EX APRON ENDWALL

126B STA 417+21, 21.4' LT EX INLET

STA 420+05, 37.3' LT INLETS 3-C 127A

EXISTING R/W

PROPOSED R/W

W LINCOLN AVE

STA 415+96, 13.0' RT ADJUSTING MANHOLE COVERS 124

STA 416+15, 12.9' RT MANHOLES 4-J 125

STA 417+21, 11.9' RT ADJUSTING MANHOLE COVERS 126

STA 417+21, 22.0' RT CONCRETE COLLARS 126C

127 STA 419+71, 12.7' RT ADJUSTING MANHOLE COVERS

STA 416+15, 26.0' RT INLETS 2x3-H 125B

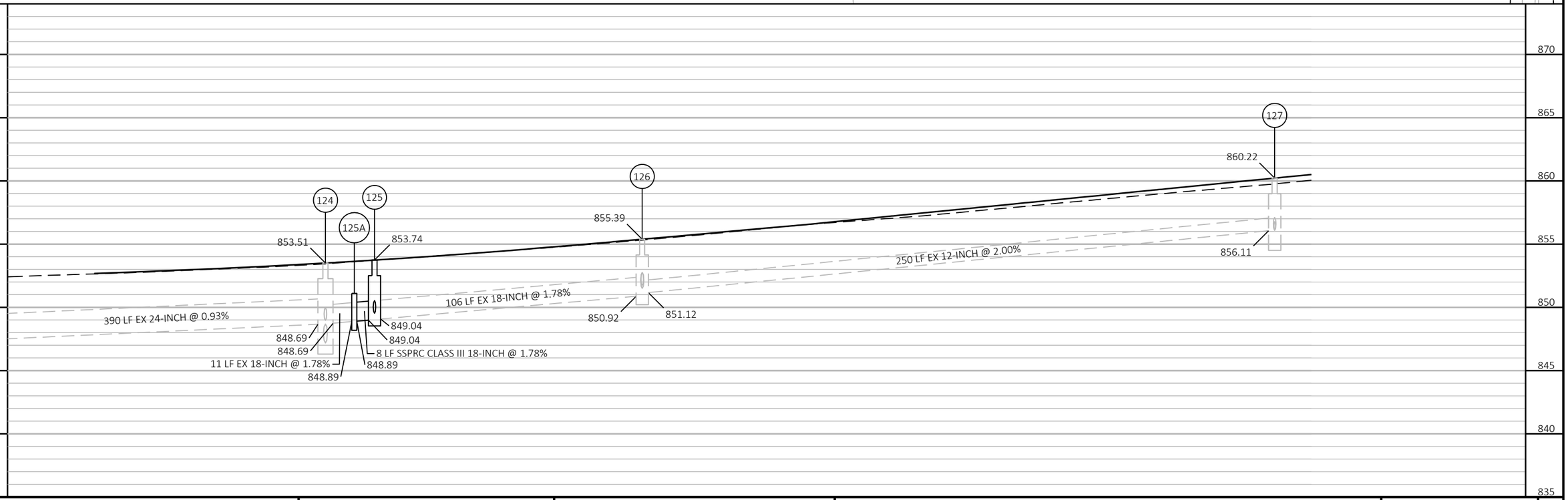
TLE

STA 417+11, 29.5' RT INLETS 2x3-H 126E

STA 417+22, 29.5' RT INLETS 2x3-H 126D

STA 419+77, 29.5' RT INLETS 2x3-H 127B

415+00 416+00 417+00 418+00 419+00 420+00

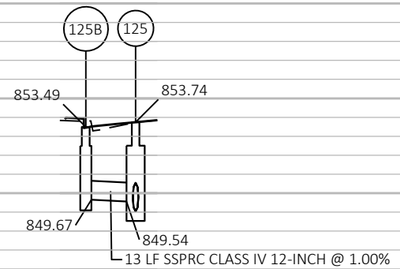


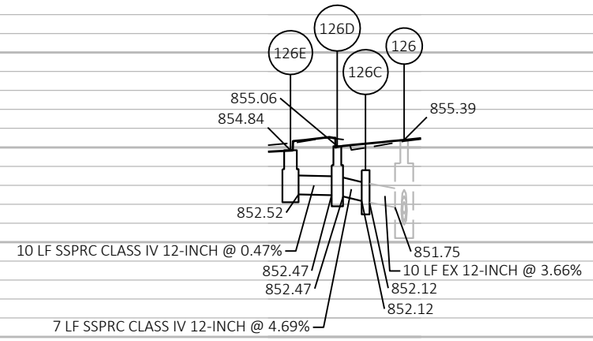
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 152 E

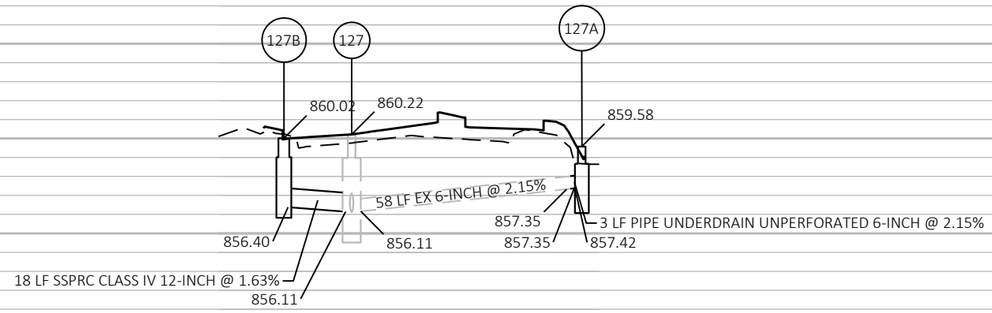
FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-017

PLOT DATE : 7/22/2026 10:59 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41







PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 153	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-117

PLOT DATE : 7/22/2026 10:59 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41

N

LEGEND

XXX STORM STRUCTURE

SLOPE LIMITS

138A STA 445+56, 29.6' LT
INLETS 2x3-H

138B STA 447+05, 27.5' LT
INLETS 2x3-H

EXISTING R/W

TLE

PROPOSED R/W

12"

W ROGERS DR

138 STA 444+97, 30.5' LT
APRON ENDWALLS FOR CPRC 12-INCH

444+00 445+00 446+00 447+00 448+00 449+00

CPCS 24-INCH @ 1.00%

CPCS 24-INCH @ 2.40%

139 STA 448+25, 34.6' RT
MANHOLES 4-J

STA 197+59, 5.5' LT
SALVAGED MANHOLE COVERS

13

1A

24"

139A STA 447+99, 48.5' RT
APRON ENDWALLS FOR CPRC 24-INCH

508 STA 444+48, 42.5' RT
APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 4 TO 1

509 STA 443+60, 36.5' RT
APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 4 TO 1

510 STA 446+74, 47.0' RT
APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 4 TO 1

511 STA 445+98, 45.0' RT
APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 4 TO 1

880 875 870 865 860 855 850 845

138 138A 138B

852.49 852.67 852.67 855.26 854.92 859.18

59 LF SSPRC CLASS V 12-INCH @ 0.30%

150 LF SSPRC CLASS V 12-INCH @ 1.50%

139A 139 137

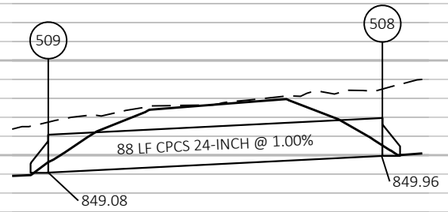
858.03 858.18 858.18 861.89 859.62 859.92 865.88

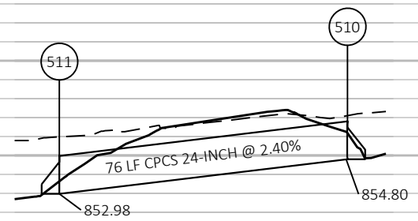
29 LF SSPRC CLASS IV 24-INCH @ 0.50%

167 LF EX 24-INCH @ 0.86%

77 LF EX 18-INCH @ 0.96%

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER STORM SEWER	SHEET 154 E





PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	STORM SEWER	SHEET 155	E

LIMIT OF PHRAGMITES CONTAMINATED SOIL EXCAVATION
TOP OF BIOSWALE SLOPE INTERCEPT

SLOPE INTERCEPT

LIMIT OF 12" ENGINEERED SOIL
ELEV. 859.5

LIMIT OF BIOSWALE BOTTOM
ELEV. 858.5 TO SWALE
BOTTOM SLOPE INTERCEPT

LIMIT OF 12" ENGINEERED SOIL
ELEV. 859.5

PROPOSED R/W

LIMIT OF PHRAGMITES CONTAMINATED SOIL EXCAVATION
ELEV. 860.5

SLOPE INTERCEPT

EXISTING R/W

TLE

CTH O (MOORLAND RD)

W LINCOLN AVE

N

A

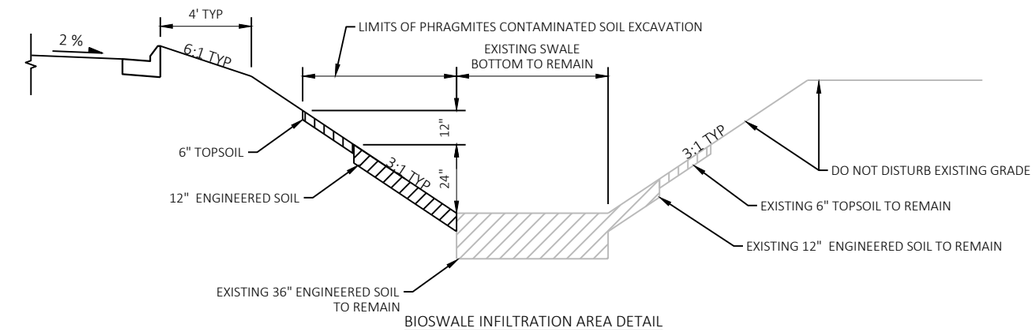
B

B

A

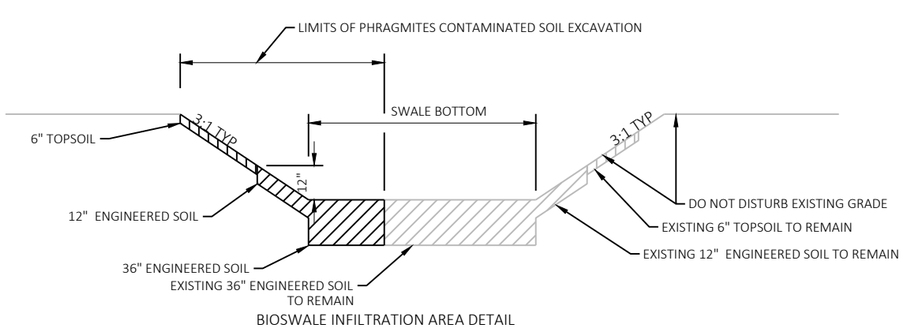
SEEDING NURSE CROP, SEEDBED PREPARATION,
SEEDING BIOSWALE, MULCHING BIOSWALE

W. LINCOLN AVE



BIOSWALE INFILTRATION AREA DETAIL
SECTION A-A

SEEDING NURSE CROP, SEEDBED PREPARATION,
SEEDING BIOSWALE, MULCHING BIOSWALE



BIOSWALE INFILTRATION AREA DETAIL
SECTION B-B

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	BIOSWALE PLANS	SHEET 156	E

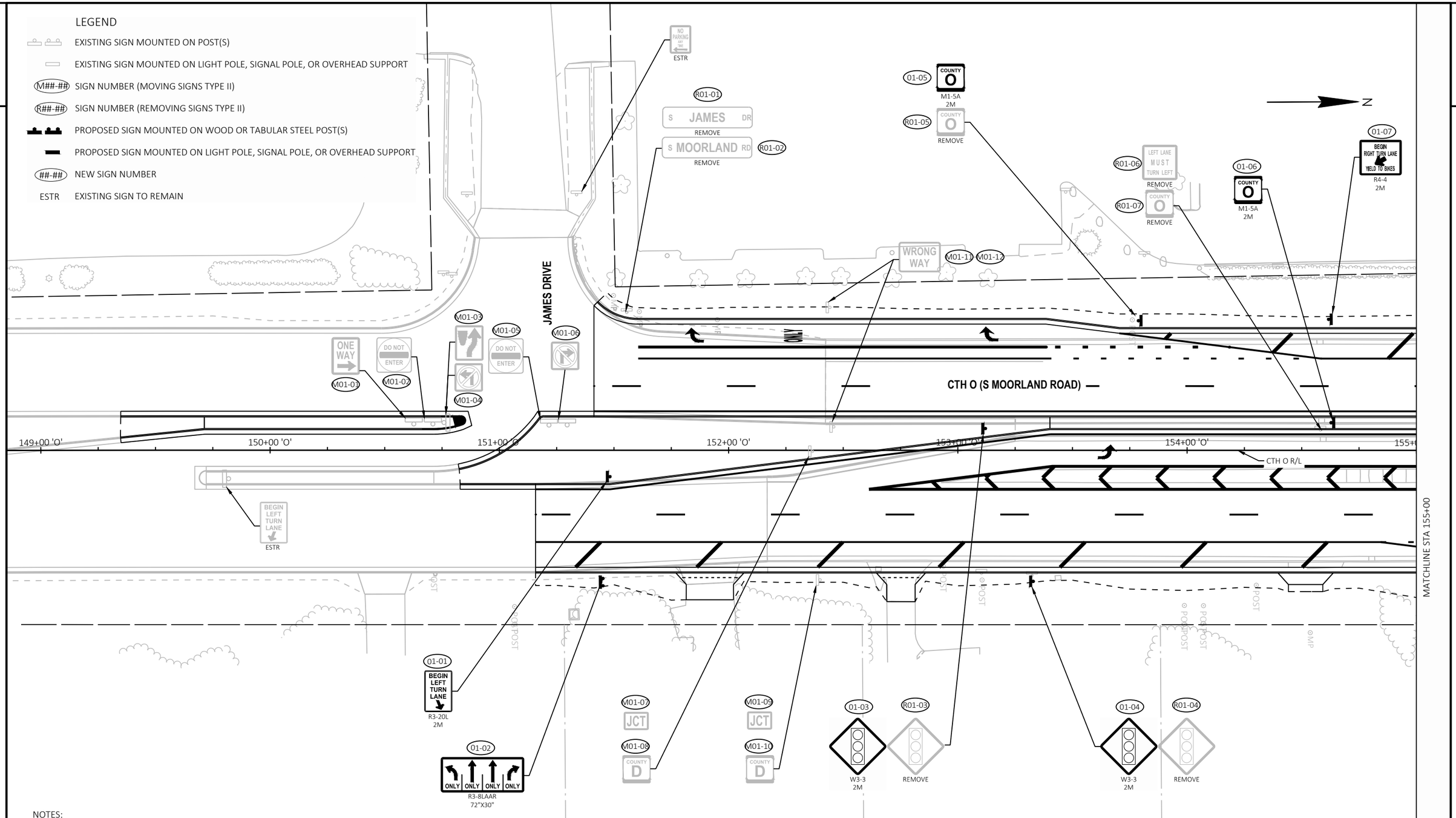
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023101-PL.DWG
LAYOUT NAME - Plan 1 IN 20 FT

PLOT DATE : 5/11/2026 1:30 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN



NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 157	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 01
PLOT DATE : 4/28/2026 10:20 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M###-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R###-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

MATCHLINE STA 155+00

MATCHLINE STA 352+00

MATCHLINE STA 354+50

MATCHLINE STA 161+00

CTH O (S MOORLAND ROAD)

CTH O R/L

CTH D R/L

156+00 'O'

157+00 'O'

158+00 'O'

159+00 'O'

160+00 'O'

353+00 'D'

354+00 'D'

40'

55'

55'

55'

N

02-01 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 2M

R02-01 NO PARKING BETWEEN SIGNS REMOVE

R02-02 ALTERNATE WEST INTERSTATE 94 REMOVE

02-02 ALTERNATE WEST INTERSTATE 94 J2-1 2M

02-03 WRONG WAY R5-1A 2M

02-04 SPEED LIMIT 40 R2-1 2M

R02-03 SPEED LIMIT 40 REMOVE

02-05 CURB LANE PARKING BICYCLES AND RIGHT TURNS ONLY R3-52P 2M

R02-04 USE 2 LANES ONLY REMOVE

02-06 STOP R1-1F 2M

02-07 M6-4 2M

02-08 COUNTY D M1-5A 2M

R02-05 W CLEVELAND AVE REMOVE

W Cleveland Ave M1-94H (ON SIGNAL ARM, SEE SIGNING DETAILS)

02-09 R4-7 2M

R02-06 NO PARKING BETWEEN SIGNS REMOVE

R02-07 REMOVE

02-10 (ON SIGNAL POLE) STOP R1-1F 2M

02-11 (ON SIGNAL POLE) DO NOT ENTER R5-1 2M

02-12 (ON SIGNAL POLE) STOP R1-1F 2M

R02-08 S MOORLAND RD REMOVE

W CLEVELAND AVE REMOVE

R02-09 (ON SIGNAL POLE)

02-13 DO NOT ENTER R5-1 2M

02-14 STOP R1-1F 2M

R4-7 2M

02-15 M6-4 2M

COUNTY O M1-5A 2M

02-16

R02-16 NO PARKING BETWEEN SIGNS REMOVE

02-17

R02-10 STOP REMOVE

02-18 STOP R1-1F 2M

02-19 R4-7 2M

02-20 COUNTY O M1-5A 2M

02-21 M6-4 2M

R02-11 REMOVE

R02-12 COUNTY D REMOVE

R02-13 REMOVE

R02-14 STOP REMOVE

R02-15 S MOORLAND RD REMOVE

S Moorland Rd M1-94H (ON SIGNAL ARM, SEE SIGNING DETAILS)

02-22 (ON SIGNAL POLE) NO PARKING BETWEEN SIGNS R7-52R 2M

02-23 (ON SIGNAL POLE) STOP R1-1F 2M

R02-17 S MOORLAND RD REMOVE

02-34 S Moorland Rd M1-94H (ON SIGNAL ARM, SEE SIGNING DETAILS)

R02-18 REMOVE

R02-19 STOP REMOVE

R02-20 REMOVE

R02-21 STOP REMOVE

02-24 DO NOT ENTER R5-1 2M (ON SIGNAL POLE)

R02-22 COUNTY O REMOVE

R02-23 REMOVE

R02-24 WAUKESHA COUNTY ADOPT-A-HIGHWAY NEXT 2 MILES REVELA FOODS REMOVE

R02-34 NO PARKING BETWEEN SIGNS REMOVE

02-25 DO NOT ENTER R5-1 2M (ON SIGNAL POLE)

R02-35 STOP REMOVE

(ON SIGNAL POLE) STOP R1-1F 2M

02-26

R02-25 S MOORLAND RD REMOVE

W CLEVELAND AVE REMOVE

R02-26

02-27 STOP R1-1F 2M

02-28 R4-7 2M

02-29 COUNTY D M1-5A 2M

02-30 M6-4 2M

R02-27 W CLEVELAND AVE REMOVE

R02-28 COUNTY D REMOVE

R02-29 REMOVE

R02-30 STOP REMOVE

R02-31 REMOVE

02-31 CURB LANE PARKING BICYCLES AND RIGHT TURNS ONLY R3-52P 2M

R02-38 USE 2 LANES ONLY REMOVE

02-32 ONE WAY R6-2R 2M

R02-32 NO PARKING BETWEEN SIGNS REMOVE

R02-33 STOP REMOVE

R02-36 W CLEVELAND AVE REMOVE

02-36 W Cleveland Ave M1-94H (ON SIGNAL ARM, SEE SIGNING DETAILS)

R02-37 NO PARKING BETWEEN SIGNS REMOVE

NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

SHEET 2 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 158	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 02
PLOT DATE : 4/28/2026 10:20 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

MATCHLINE STA 161+00

R03-01 NO PARKING BETWEEN SIGNS 2AM-6AM REMOVE
03-02 WRONG WAY R5-1A 2M
03-03 ONLY ONLY ONLY ONLY R3-8LAAR 72"X30"
03-05 ALTERNATE EAST INTERSTATE 94 J2-1 2M
R03-04 ALTERNATE EAST INTERSTATE 94 REMOVE
R03-05 NO PARKING BETWEEN SIGNS 2AM-6AM REMOVE
03-08 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 2M
03-16 ONE WAY R6-2R 2M
R03-07 S MOORLAND RD REMOVE
W GLENDALE DR R03-08 REMOVE
REMOVE R03-09
03-12 SPEED LIMIT 40 R2-1 2M
R03-13 SPEED LIMIT 40 REMOVE
R03-15 REMOVE
R03-14 REMOVE
03-18 W3-3 2M
03-17 W3-3 2M
JCT R03-18 REMOVE
COUNTY D R03-22 REMOVE
NO ENGINE BREAK NEW BERLIN CITY ORDINANCE #2385 R03-19 REMOVE
JCT 03-19 M2-1
COUNTY D 03-22 M1-5A
Z

CTH O (S MOORLAND ROAD)

00 'O' | 162+00 'O' | 163+00 'O' | 164+00 'O' | 165+00 'O' | 166+00 'O' | 167+
CTH O R/L

03-01 ONE WAY R6-2R 2M
03-23 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 2M
03-24 WRONG WAY R5-1A 2M
R03-23 WAUKESHA COUNTY ADOPT-A-HIGHWAY LITTER CONTROL NEXT 2 MILES
R03-24 GARFIELD ACCOUNTING SVC. REMOVE
03-04 COUNTY O M1-5A 2M
R03-02 COUNTY O REMOVE
R03-03 NO PARKING BETWEEN SIGNS 2AM-6AM REMOVE
03-06 DO NOT ENTER R5-1 2M
R03-06 REMOVE
03-25 ONE WAY R6-2R 2M
R03-10 NO PARKING 1 HR 2 A M TO 6 A M REMOVE MON-FRI
03-07 NO PARKING 1 HR 2 A M TO 6 A M R7-2D 2M
W GLENDALE RD
R03-12 STOP REMOVE
03-10 STOP R1-1 2M
03-11 RIGHT TURN ONLY R3-53R 2M
03-09 NO PARKING 1 HR 2 A M TO 6 A M R7-2D 2M
R03-11 NO PARKING 1 HR 2 A M TO 6 A M REMOVE MON-FRI
03-14 BEGIN LEFT TURN LANE R3-20L 2M
03-13 BEGIN LEFT TURN LANE R3-20L 2M
R03-16 SPEED LIMIT 40 REMOVE
NO PARKING BETWEEN SIGNS 2AM-6AM REMOVE
R03-17
03-15 SPEED LIMIT 40 R2-1 2M
03-26 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 2M
03-27 WRONG WAY R5-1A 2M
R03-20 JCT REMOVE
R03-21 COUNTY D REMOVE
03-20 JCT M2-1
03-21 COUNTY D M1-5A

MATCHLINE STA 167+00

NOTES:
1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

SHEET 3 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 159	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 03
PLOT DATE : 4/28/2026 10:20 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES:
1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

N

04-01 R4-7 2M

NO PARKING UNAUTHORIZED VEHICLES WILL BE TICKETED/TOWED AT OWNERS EXPENSE
ESTR

R04-01 REMOVE

R04-04 W GRAYLOG LN REMOVE

S MOORLAND RD REMOVE

R04-05

04-06 DO NOT ENTER R5-1 2M

04-08 BEGIN LEFT TURN LANE R3-20L 2M

04-09 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 2M

04-10 WRONG WAY R5-1A 2M

MATCHLINE STA 167+00

169+00 'O'

170+00 'O'

171+00 'O'

172+00 'O'

173+

CTH O R/L

CTH O (S MOORLAND ROAD)

MATCHLINE STA 173+00

W GRAYLOG LN

04-02 DO NOT ENTER R5-1 2M

R04-02 REMOVE

04-05 R4-7 2M

04-07 CURB LANE PARKING BICYCLES AND RIGHT TURNS ONLY R3-52P 2M

R04-03 REMOVE

04-03 R1-1 2M

04-04 DIVIDED HIGHWAY R6-3 2M

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

SHEET 4 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 160	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 04

PLOT DATE : 4/28/2026 10:20 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:
1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

N

MATCHLINE STA 173+00

CTH O (S MOORLAND ROAD)

W OVERLAND RD

CTH O R/L

MATCHLINE STA 179+00

05-01 SPEED LIMIT 40 — R2-1 2M
R05-01 SPEED LIMIT 40 — REMOVE
05-02 RIGHT TURN ONLY — R3-53R 2M
05-03 STOP — R1-1 2M
R05-04 STOP — REMOVE
05-04 NO PARKING ANY TIME — R7-1R 2M
R05-05 NO PARKING ANY TIME — REMOVE
R05-02 W OVERLAND DR — REMOVE
S MOORLAND DR — REMOVE
R05-03
05-06 NO PARKING ANY TIME — R7-1L 2M
R05-06 NO PARKING ANY TIME — REMOVE
05-07 DO NOT ENTER — R5-1 2M
05-12 WRONG WAY — R5-1A 2M
05-05 ONE WAY — R6-2R 2M
R05-07 — REMOVE
05-08 / 05-09 SPEED LIMIT 40 — R2-1 2M
R05-10 / R05-11 SPEED LIMIT 40 — REMOVE
W OVERLAND DR — R05-08 — REMOVE
S MOORLAND DR — R05-09 — REMOVE
05-10 BEGIN RIGHT TURN LANE YIELD TO BIKES — R4-4 2M
05-11 WRONG WAY — R5-1A 2M

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

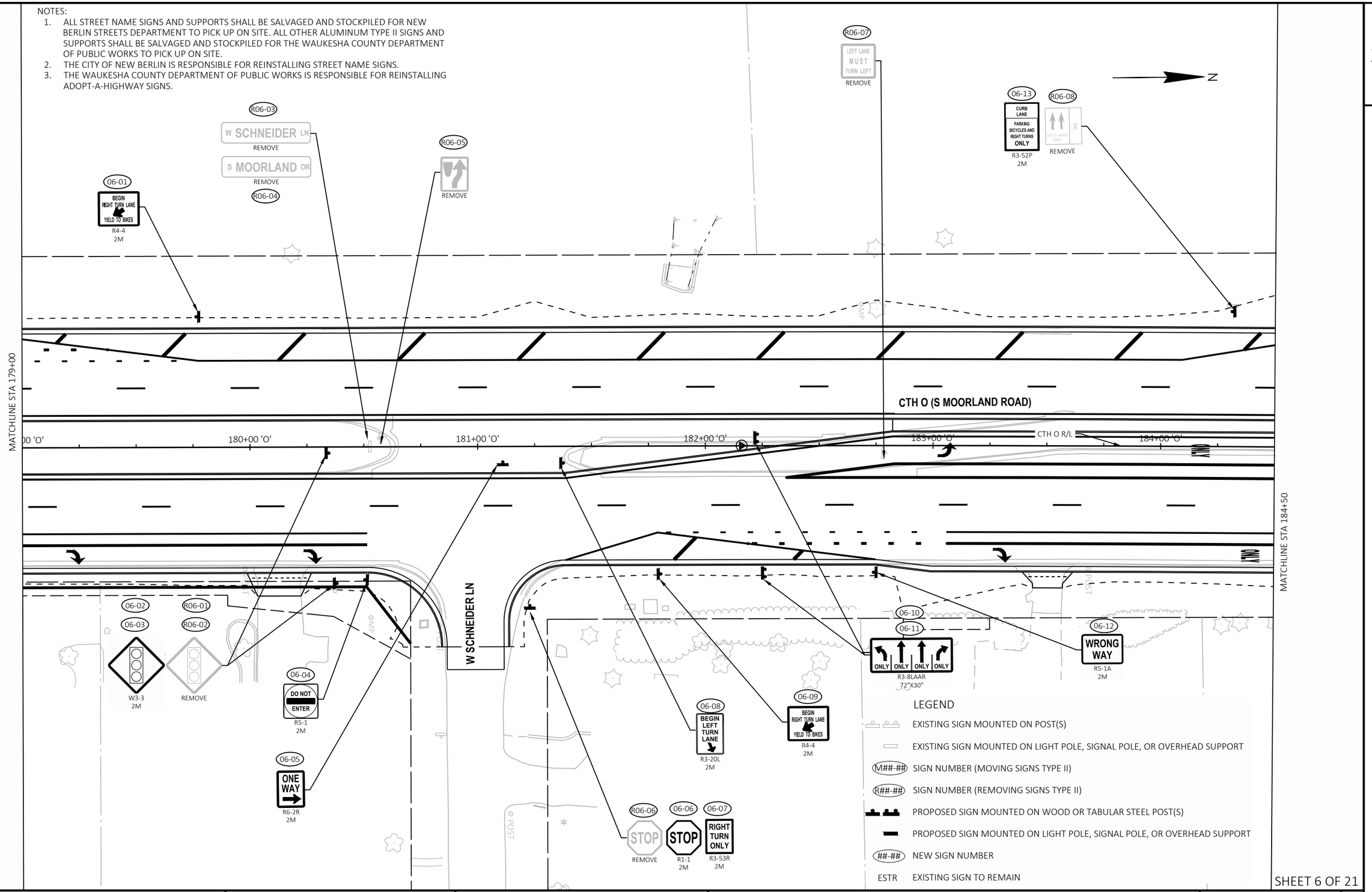
SHEET 5 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 161	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 05
PLOT DATE : 4/28/2026 10:20 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.



SHEET 6 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 162	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 06

PLOT DATE : 4/28/2026 10:20 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

N

MATCHLINE STA 420+00

W LINCOLN AVE

ONLY

421+00

422+00

423+00

45'

55'

40'

MATCHLINE STA 184+50

MATCHLINE STA 423+50

MATCHLINE STA 190+50

CTH O (S MOORLAND ROAD)

186+00 'O'

187+00 'O'

188+00 'O'

189+00 'O'

190+00 'O'

CTH O R/L

LI R/L

07-01 STOP R1-1F 2M; R4-7 2M (ON SIGNAL POLE)

07-02 STOP R1-1F 2M (ON SIGNAL POLE)

07-03 STOP R1-1F 2M (ON SIGNAL POLE)

07-04 DO NOT ENTER R5-1 2M (ON SIGNAL POLE)

07-05 STOP R1-1F 2M (ON SIGNAL POLE)

07-06 DO NOT ENTER R5-1 2M (ON SIGNAL POLE)

07-07 R5-2 2M (ON SIGNAL POLE)

07-08 STOP R1-1F 2M

07-09 R4-7 2M (ON SIGNAL POLE)

07-10 R4-7 2M

07-11 STOP R1-1F 2M

07-12 BEGIN LEFT TURN LANE R3-20LL 2M

07-13 SPEED LIMIT 35 R2-1 2M

07-14 NO PARKING ANY TIME R7-1L 2M

07-15 DO NOT ENTER R5-1 2M (ON SIGNAL POLE)

07-16 STOP R1-1F 2M (ON SIGNAL POLE)

07-17 WRONG WAY R5-1A 2M

07-18 DO NOT ENTER R5-1 2M (ON SIGNAL POLE)

07-19 STOP R1-1F 2M (ON SIGNAL POLE)

07-20 R4-7 2M

07-21 STOP R1-1F 2M

07-22 CURB LANE PARKING BICYCLES AND RIGHT TURNS ONLY R3-52P 2M

07-23 ONLY ONLY ONLY ONLY R3-8LAAR 72"X30"

07-24 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 2M

07-25 WRONG WAY R5-1A 2M

07-26 ONLY ONLY ONLY ONLY R3-8LAAR 72"X30"

07-27 BEGIN LEFT TURN LANE R3-20L 2M

07-28 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 2M

07-29 STOP R1-1 2M

07-30 WRONG WAY R5-1A 2M

07-31 W Lincoln Ave M1-94H (ON SIGNAL ARM, SEE SIGNING DETAILS)

07-32 S Moorland Rd M1-94H (ON SIGNAL ARM, SEE SIGNING DETAILS)

07-33 S Moorland Rd M1-94H (ON SIGNAL ARM, SEE SIGNING DETAILS)

07-34 W Lincoln Ave M1-94H (ON SIGNAL ARM, SEE SIGNING DETAILS)

R07-01 STOP REMOVE

R07-02 W LINCOLN AVE REMOVE

R07-03 S MOORLAND DR REMOVE

R07-04 STOP REMOVE

R07-05 STOP REMOVE

R07-06 REMOVE

R07-07 REMOVE

R07-08 REMOVE

R07-09 R07-10 STOP REMOVE

R07-11 SPEED LIMIT 35 REMOVE; NO PARKING ANY TIME REMOVE

R07-12

R07-13 REMOVE

R07-14 STOP REMOVE

R07-15 STOP REMOVE

R07-16 W LINCOLN AVE REMOVE

R07-17 USE 2 LANES ONLY X REMOVE

R07-18 LEFT LANE MUST TURN LEFT REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

SHEET 7 OF 21

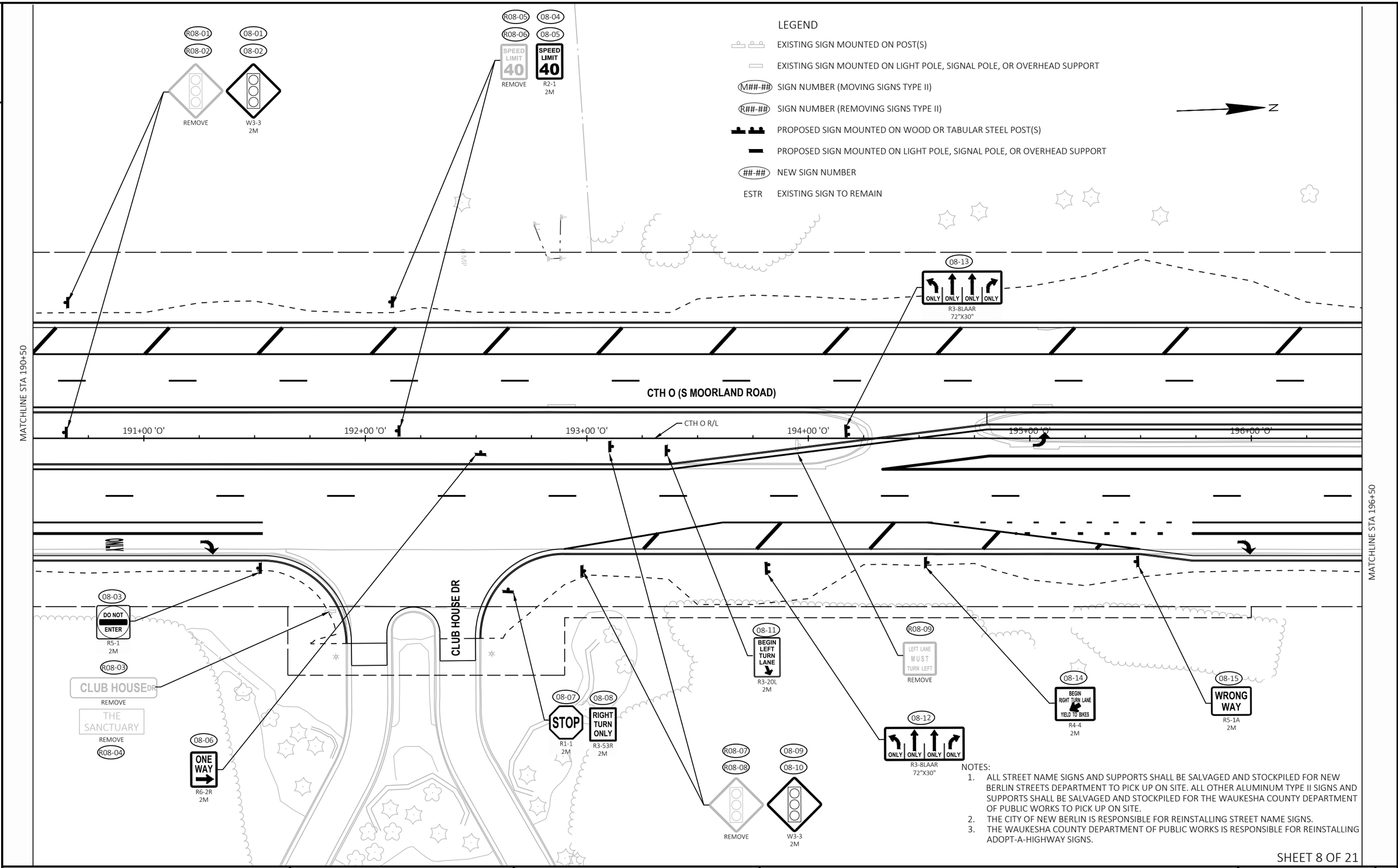
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 163	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 07

PLOT DATE : 4/28/2026 10:20 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

SHEET 8 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 164	E

NOTES:
1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

MATCHLINE STA 448+25

MATCHLINE STA 196+50

MATCHLINE STA 202+50

CTH O (S MOORLAND ROAD)

W ROGERS

WOODVIEW DR

CTH O R/L

RG R/L

WV R/L

197+00 'O'

198+00 'O'

199+00 'O'

200+00 'O'

201+00 'O'

202+00 'O'

55'

45'

40'

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

SHEET 9 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 165	E

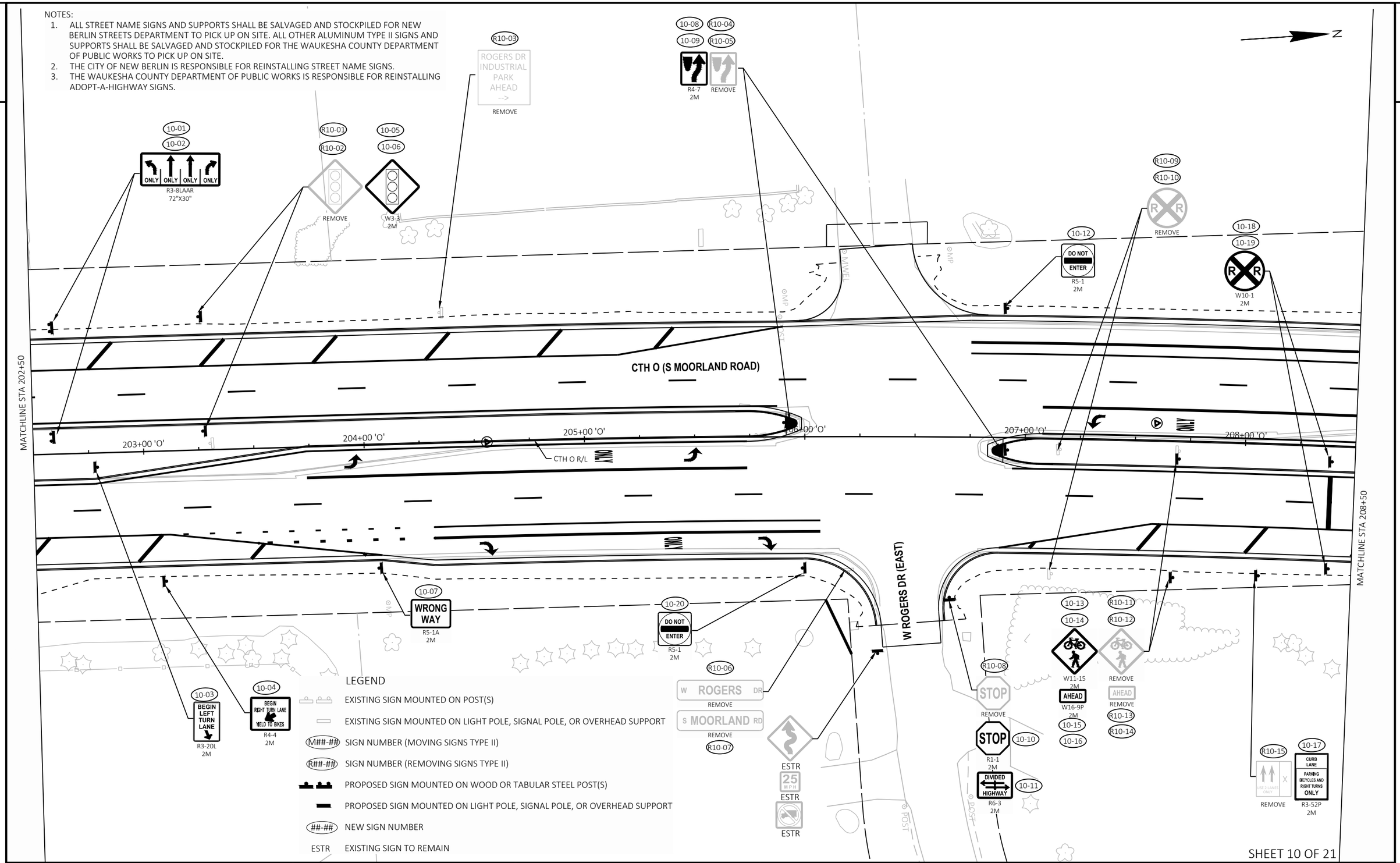
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 09

PLOT DATE : 4/28/2026 10:21 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.



SHEET 10 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 166	E

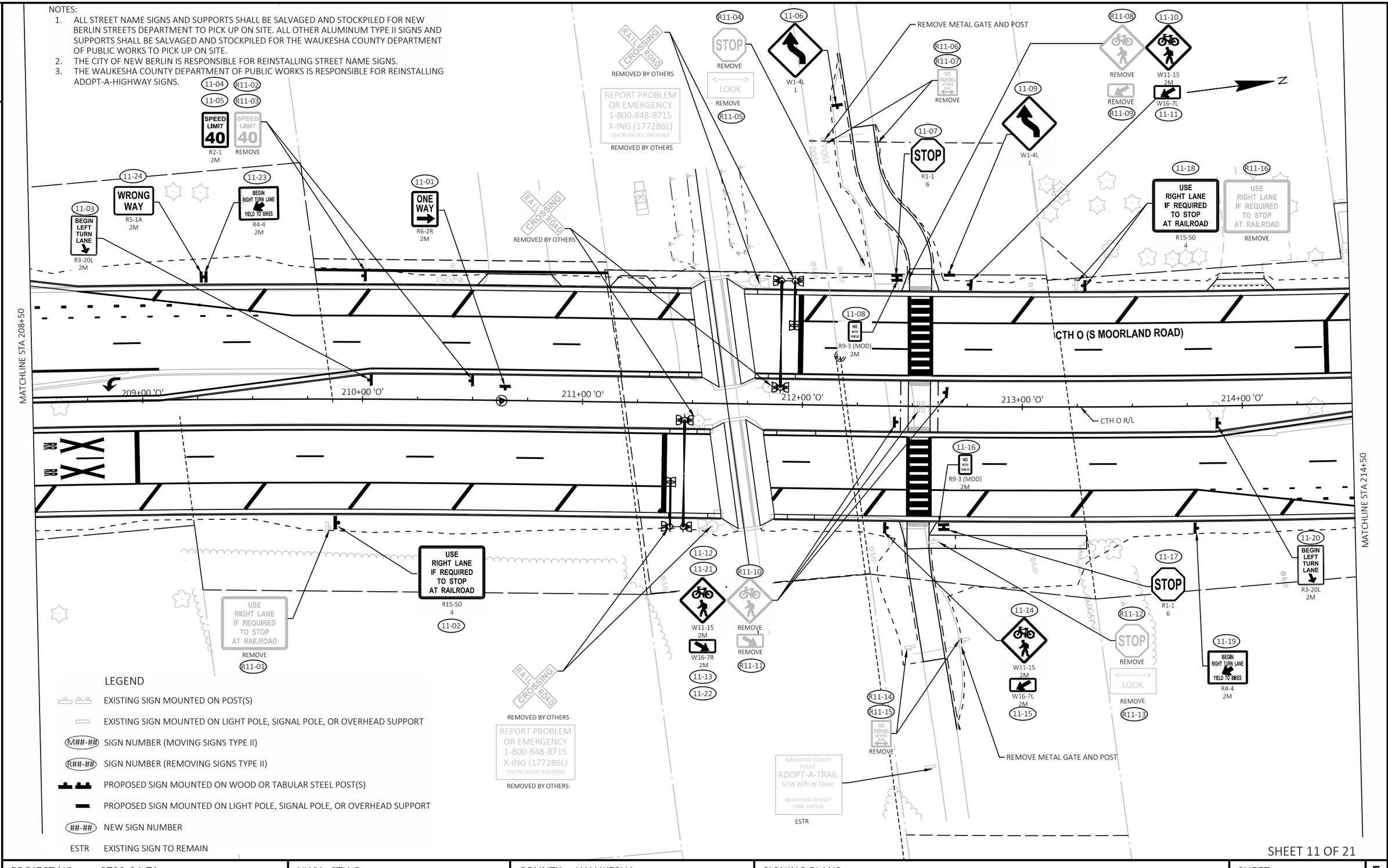
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 10

PLOT DATE : 4/28/2026 10:21 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

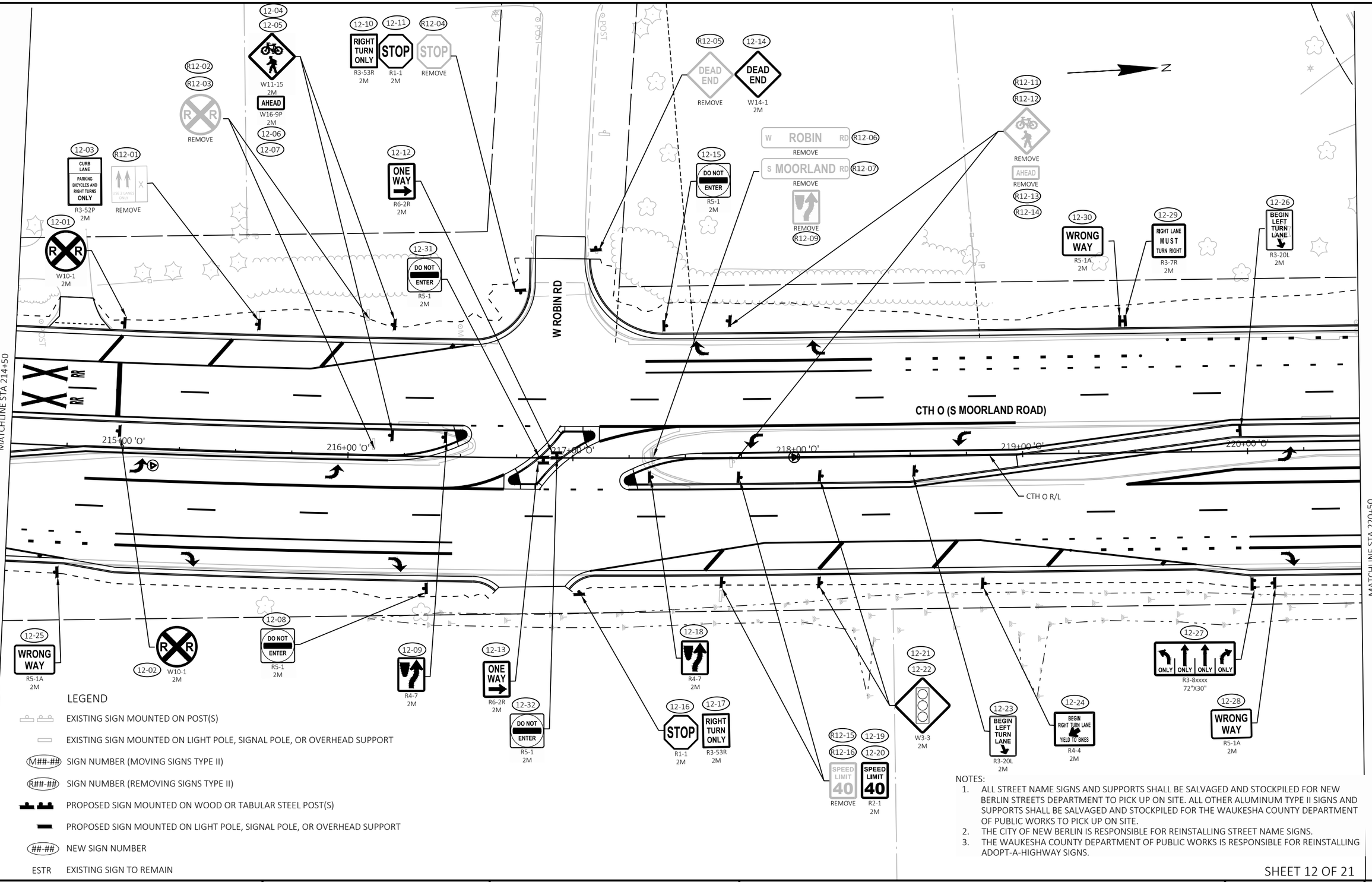


SHEET 11 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 167	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 11
PLOT DATE : 4/28/2026 10:21 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

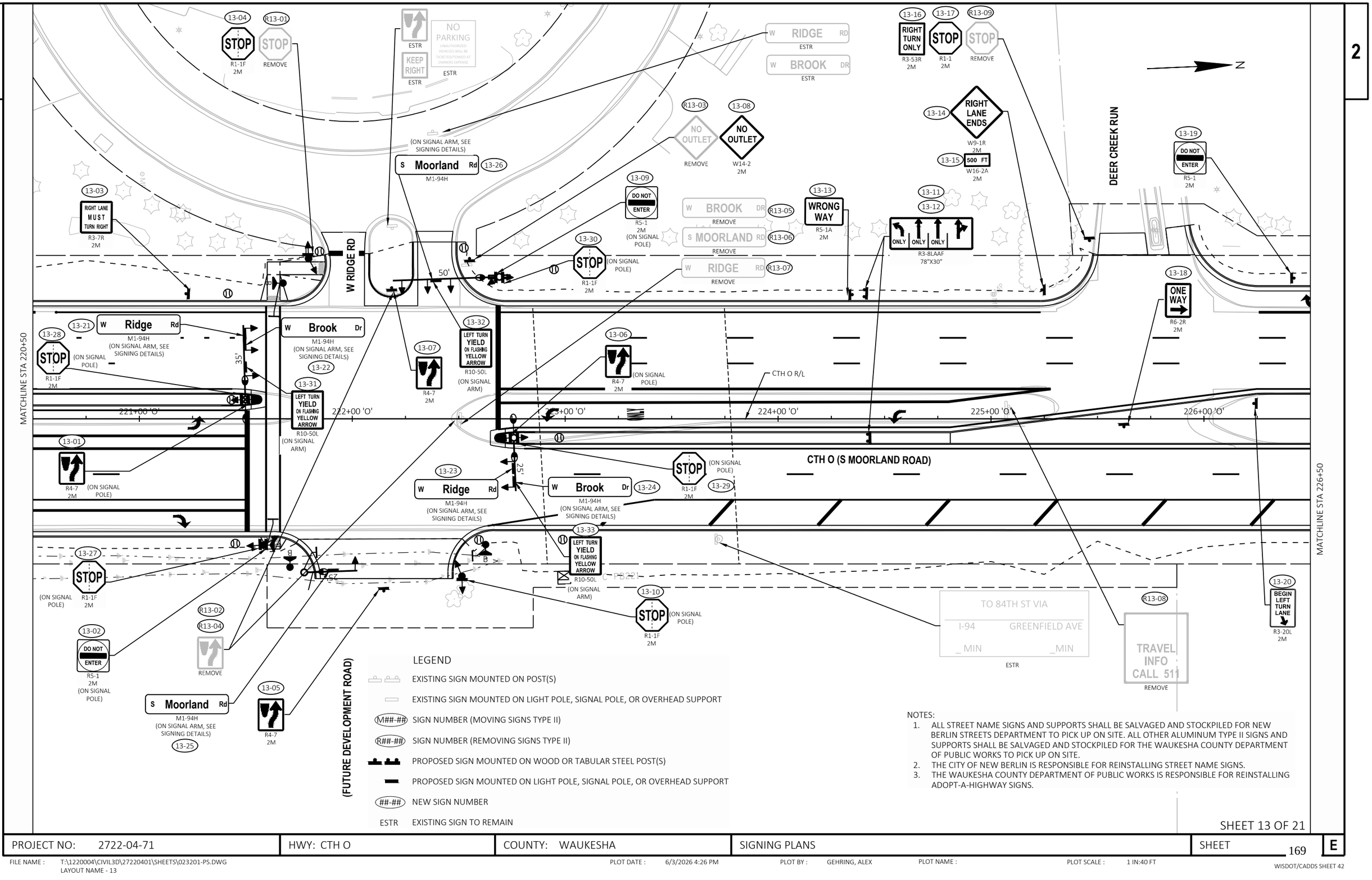
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

SHEET 12 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 168	E



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 169	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 13
PLOT DATE : 6/3/2026 4:26 PM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

MATCHLINE STA 226+50

R14-01 SPEED LIMIT 40 REMOVE

R14-02 NO ENGINE BREAK NEW BERLIN CITY ORDINANCE #2385 REMOVE

R14-07 ALTERNATE EAST INTERSTATE 94 REMOVE

R14-11 NEW BERLIN POPULATION 40,451 REMOVE

R14-12 STORM READY COMMUNITY REMOVE

R14-13 THIS IS A D.A.R.E COMMUNITY REMOVE

R14-14 TREE CITY USA REMOVE

R14-15 BIRD CITY WISCONSIN REMOVE

R14-16 COUNTY O REMOVE

14-11 COUNTY O M1-5A 2M

R14-17 NO PARKING ALL CITY STREETS 2AM-5AM CITY OF NEW BERLIN EXCEPT WITH PERMIT REMOVE

R14-20 WAUKESHA COUNTY ADOPT-A-HIGHWAY LITTER CONTROL NEXT 2 MILES GARFIELD ACCOUNTING SVC. REMOVE

R14-21 REMOVE

R14-22 REMOVE

14-01 SPEED LIMIT 40 R2-1 2M

14-14 WRONG WAY R5-1A 2M

14-05 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 2M

14-07 ALTERNATE EAST INTERSTATE 94 J2-1 2M

14-12 / 14-13 W3-3 2M

CTH O (S MOORLAND ROAD)

227+00 'O' 228+00 'O' 229+00 'O' 230+00 'O' 231+00 'O' 232+00 'O'

CTH O R/L

R14-03 COUNTY O REMOVE

R14-04 SPEED LIMIT 40 REMOVE

14-02 COUNTY O M1-5A 2M

14-03 SPEED LIMIT 40 R2-1 2M

R14-05 JCT 59 REMOVE

14-04 JCT 59 J1-1 2M

R14-06 Greenfield Ave REMOVE

R14-08 ALTERNATE WEST INTERSTATE 94 REMOVE

14-06 ALTERNATE WEST INTERSTATE 94 J2-1 2M

WELCOME TO NEW BERLIN

TO BE REMOVED BY OTHERS

R14-09 / R14-10 REMOVE

14-08 / 14-09 W3-3 2M

R14-18 LEFT LANE MUST TURN LEFT REMOVE

R14-19 COUNTY O REMOVE

14-10 COUNTY O M1-5A 2M

14-15 ONE WAY R6-2R 2M

WEST TO EAST INTERSTATE 59 94 59 ESTR

NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

SHEET 14 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 170	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 14

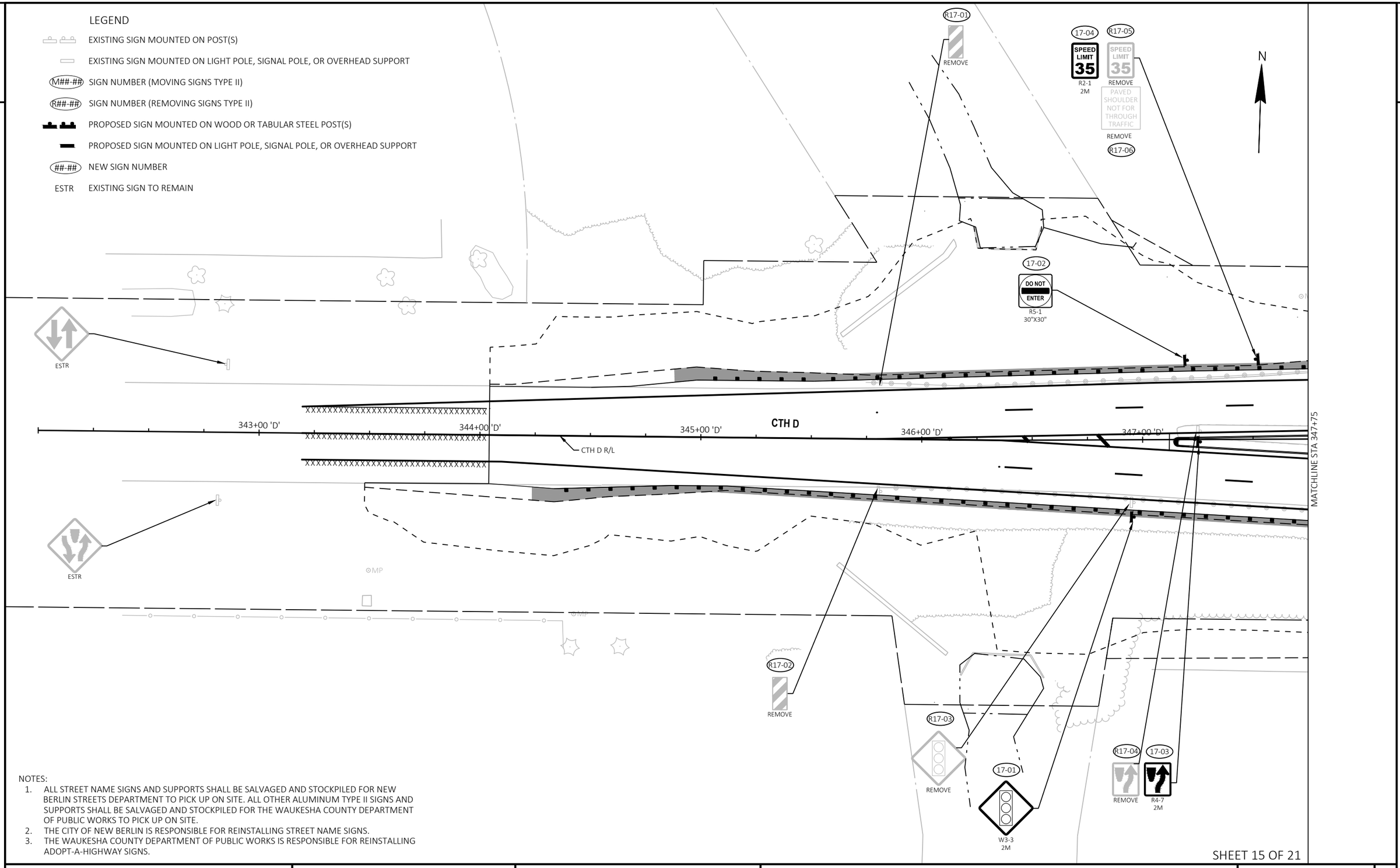
PLOT DATE : 4/28/2026 10:21 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- (M##-##) SIGN NUMBER (MOVING SIGNS TYPE II)
- (R##-##) SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- (##-##) NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN



NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

SHEET 15 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 171	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 17-D

PLOT DATE : 4/28/2026 10:24 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

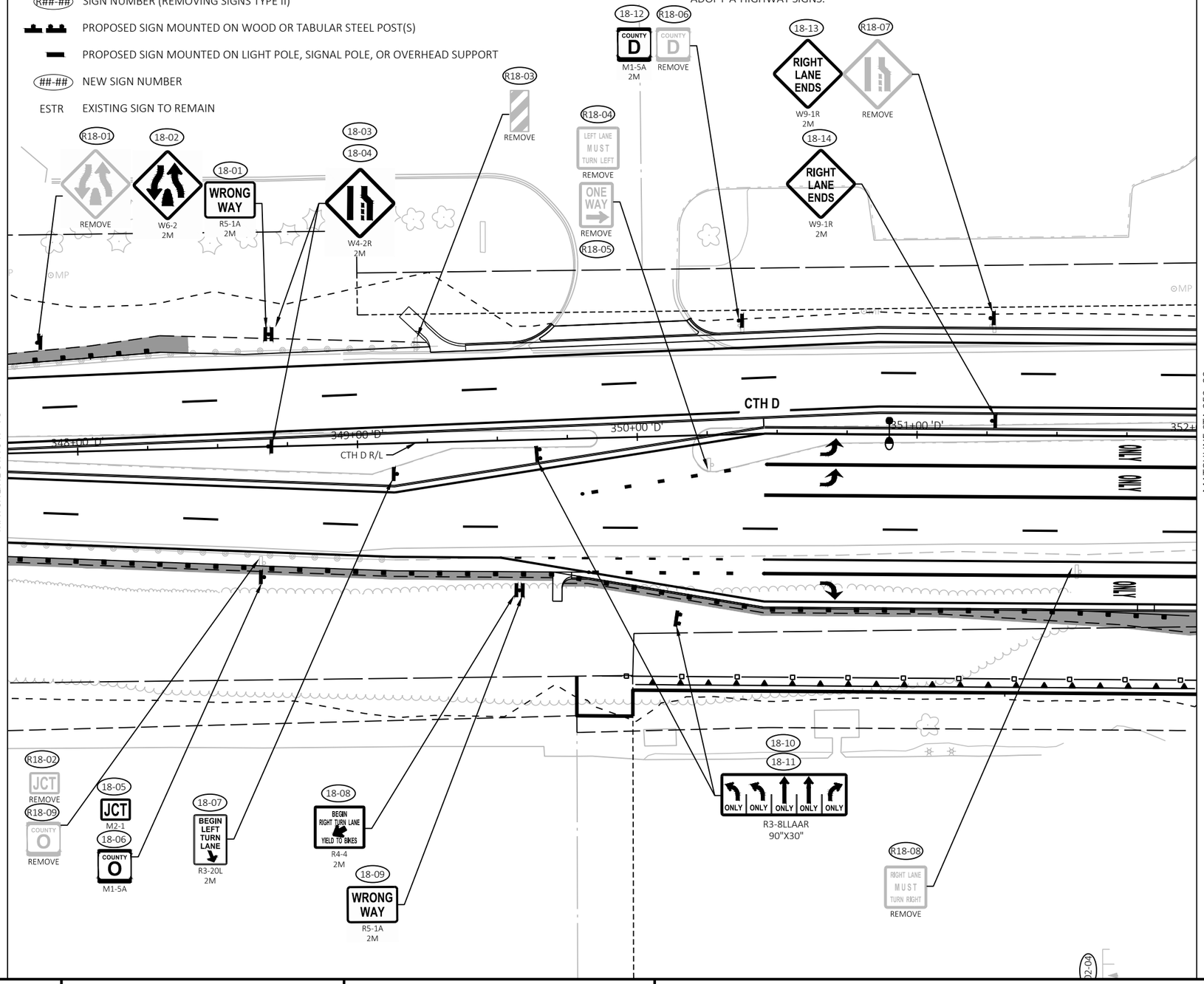
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.



N

SHEET 16 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 172	E

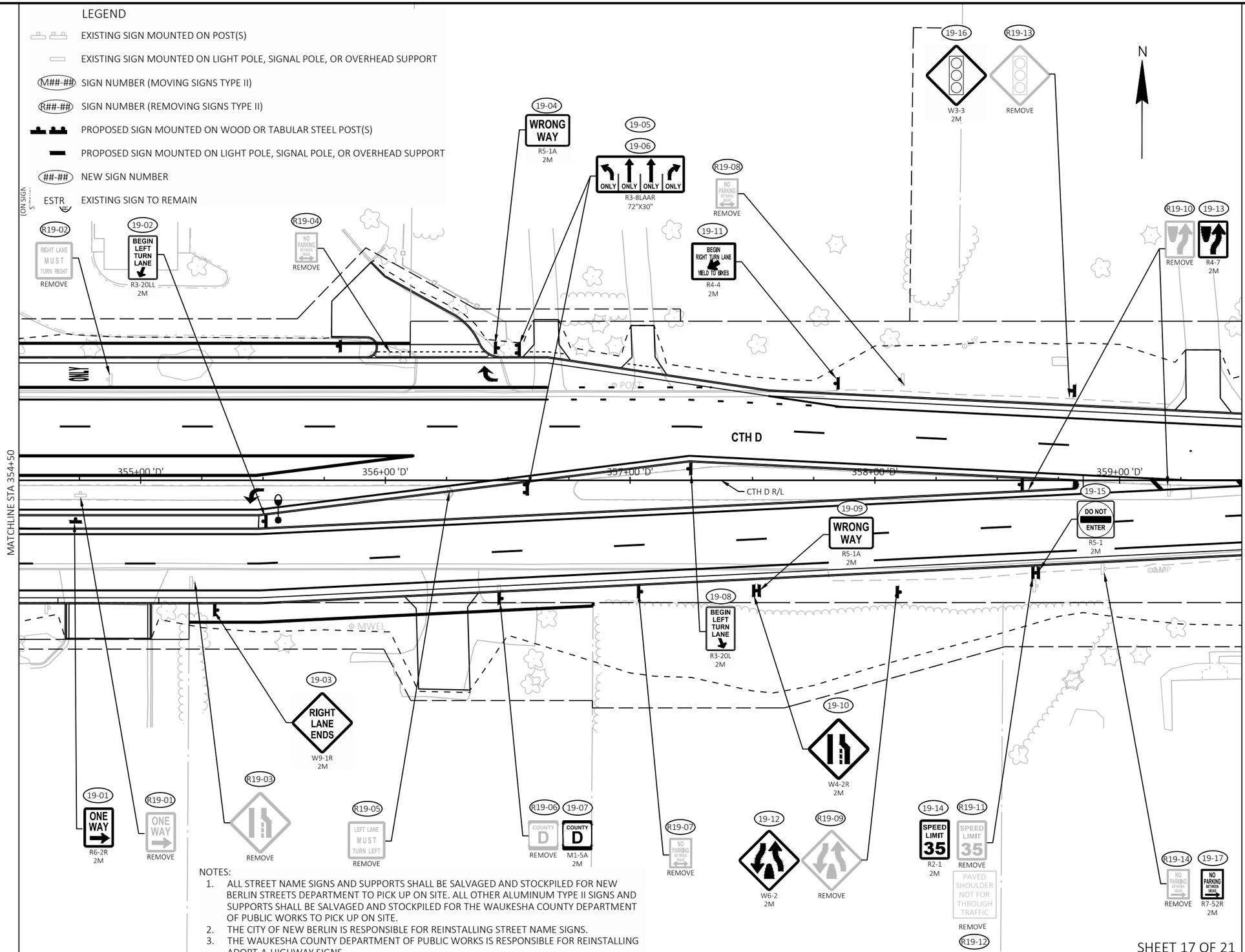
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LAYOUT NAME - 18-D

PLOT DATE : 4/28/2026 10:21 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN



NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 173	E

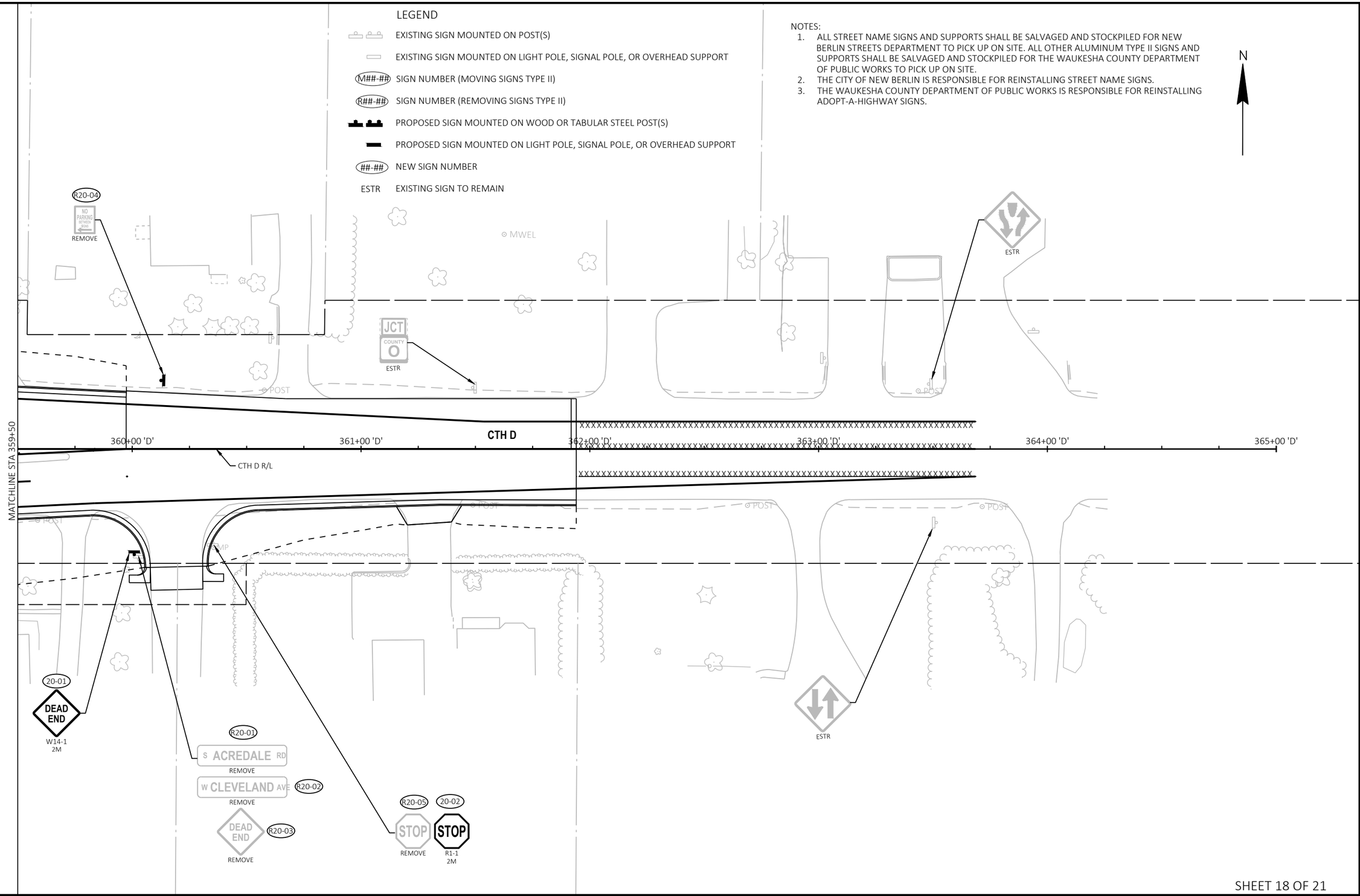
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LAYOUT NAME - 19-D
PLOT DATE : 4/28/2026 10:21 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTES:
1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

N



SHEET 18 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 174	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 20-D

PLOT DATE : 4/28/2026 10:22 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

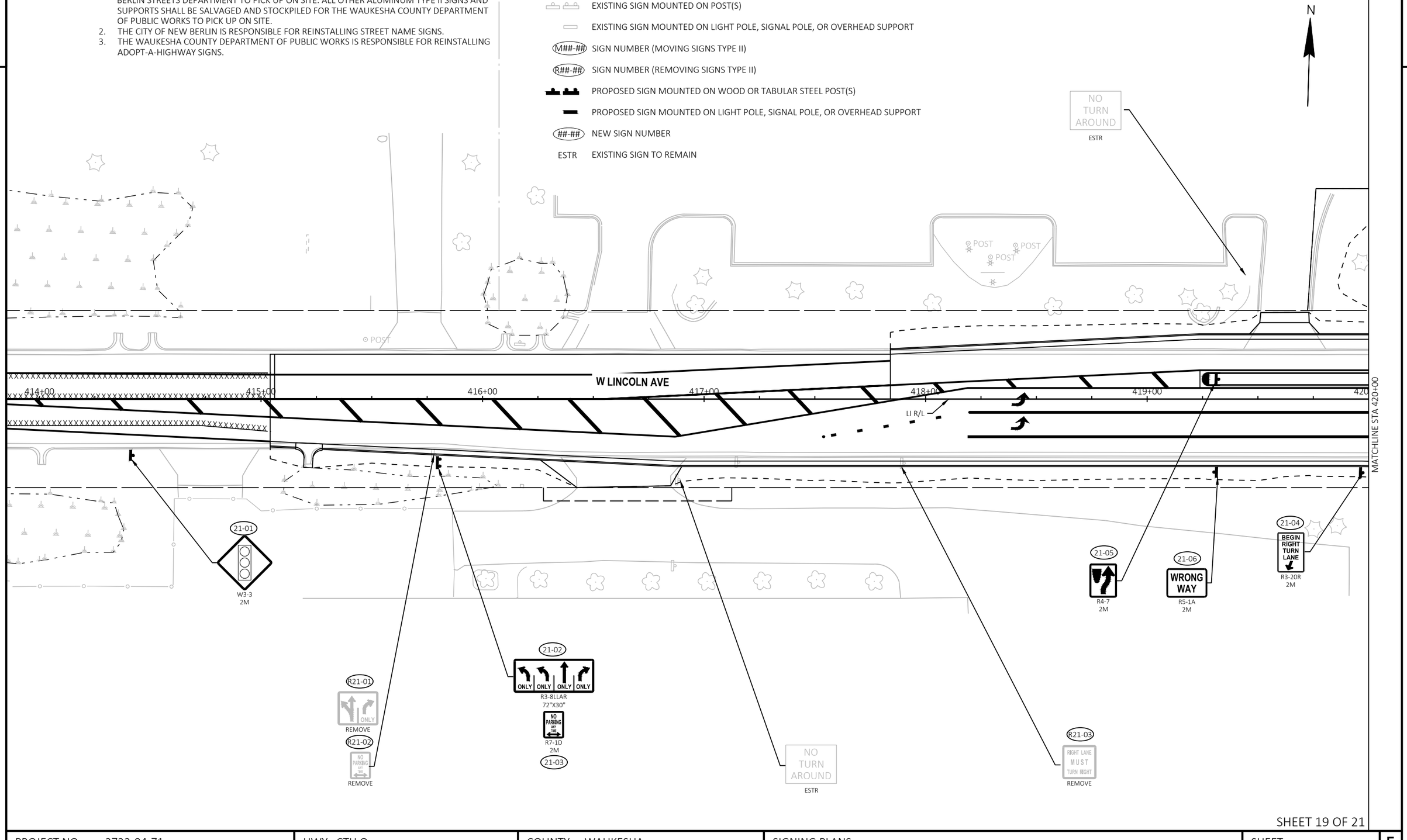
WISDOT/CADDS SHEET 42

NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN



SHEET 19 OF 21

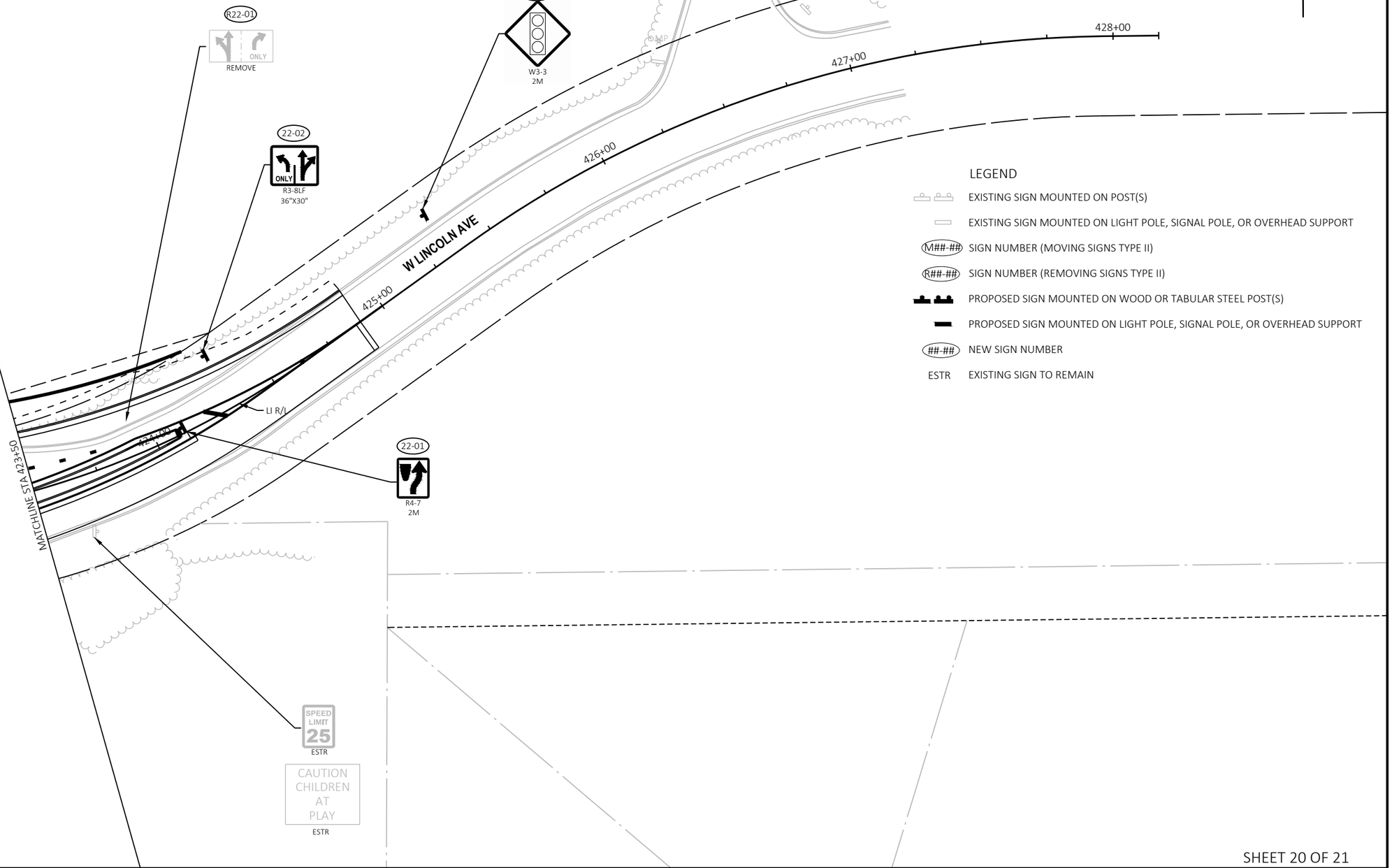
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 175	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 21-LI

PLOT DATE : 4/28/2026 10:22 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:
1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

SHEET 20 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 176	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 22-LI
PLOT DATE : 4/28/2026 10:22 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

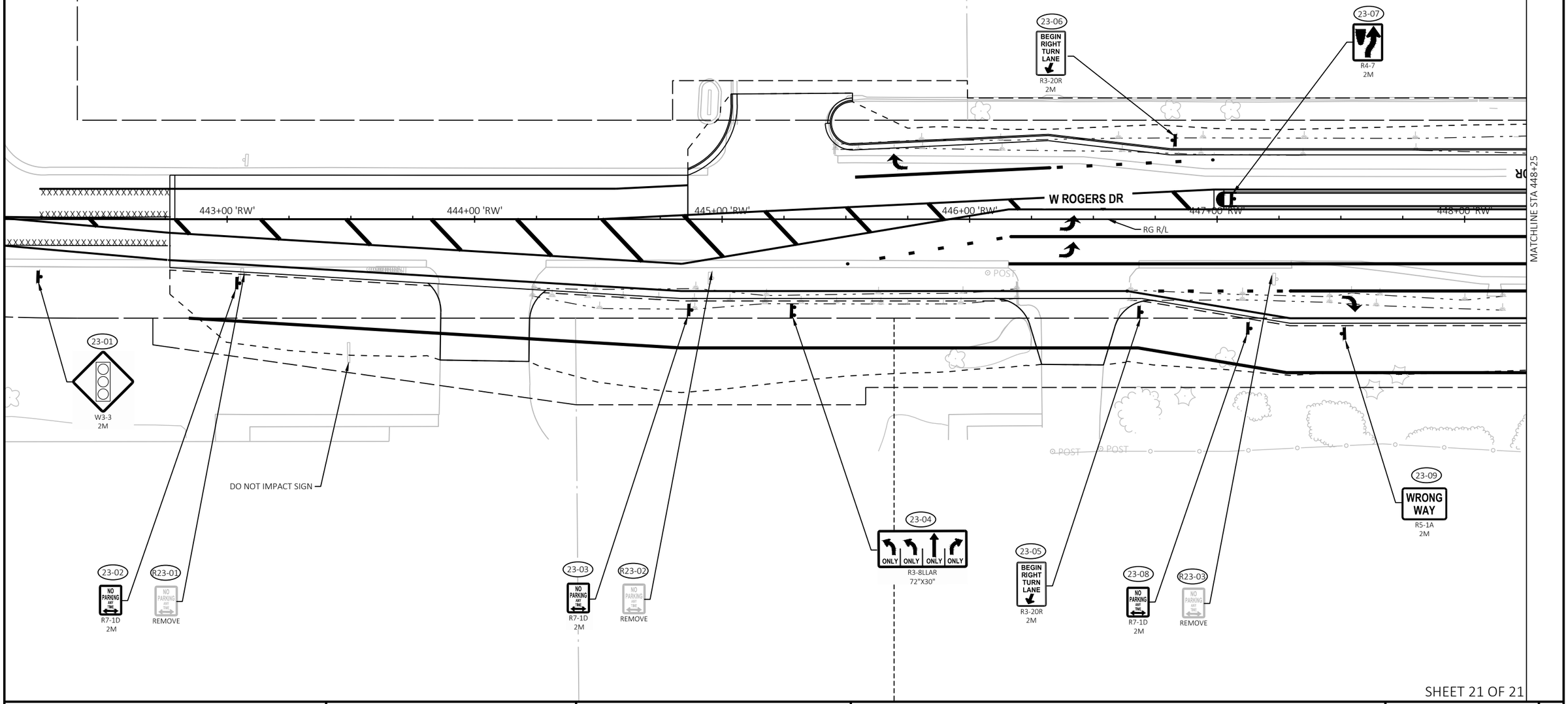
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- R##-## SIGN NUMBER (REMOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## NEW SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTES:

1. ALL STREET NAME SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR NEW BERLIN STREETS DEPARTMENT TO PICK UP ON SITE. ALL OTHER ALUMINUM TYPE II SIGNS AND SUPPORTS SHALL BE SALVAGED AND STOCKPILED FOR THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS TO PICK UP ON SITE.
2. THE CITY OF NEW BERLIN IS RESPONSIBLE FOR REINSTALLING STREET NAME SIGNS.
3. THE WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS IS RESPONSIBLE FOR REINSTALLING ADOPT-A-HIGHWAY SIGNS.

N



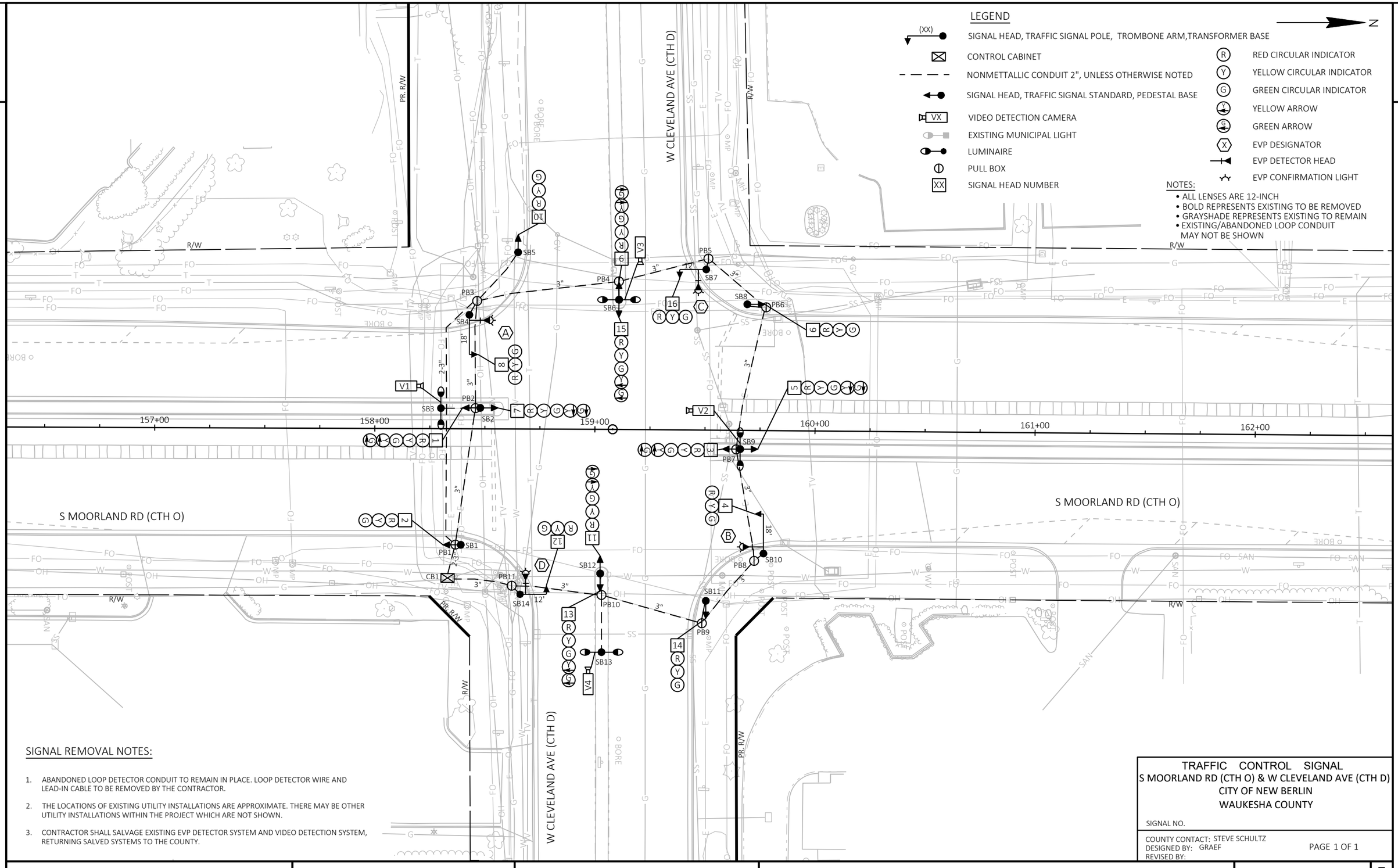
SHEET 21 OF 21

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	SIGNING PLANS	SHEET 177	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\023201-PS.DWG
LAYOUT NAME - 23-RW

PLOT DATE : 5/18/2026 4:16 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



SIGNAL REMOVAL NOTES:

1. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. CONTRACTOR SHALL SALVAGE EXISTING EVP DETECTOR SYSTEM AND VIDEO DETECTION SYSTEM, RETURNING SALVED SYSTEMS TO THE COUNTY.

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY

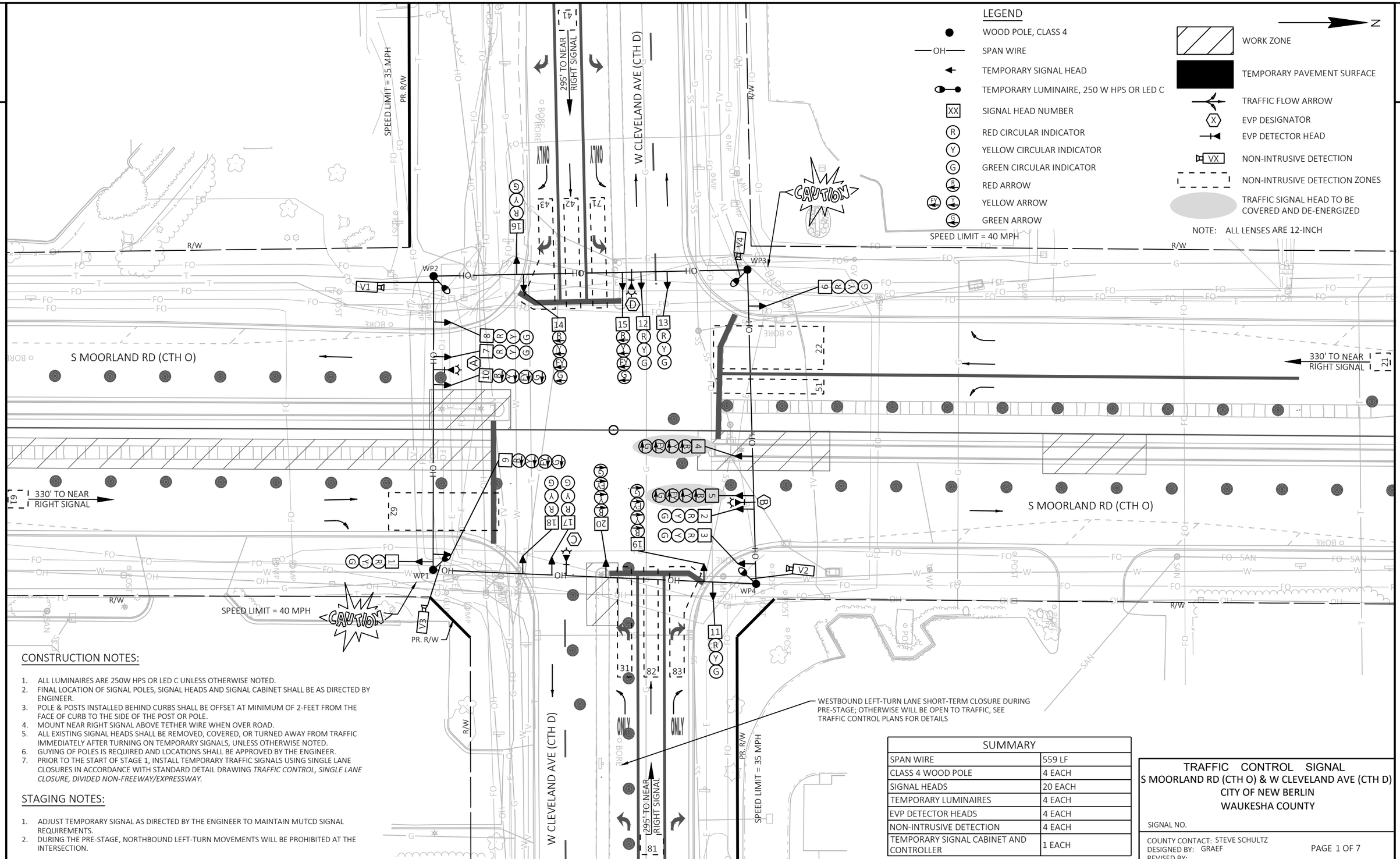
SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 178	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\01_CLEVELAND\024001-SR1.DWG
LAYOUT NAME - 024001-sr
PLOT DATE : 4/23/2026 1:06 PM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. DURING THE PRE-STAGE, NORTHBOUND LEFT-TURN MOVEMENTS WILL BE PROHIBITED AT THE INTERSECTION.

SUMMARY	
SPAN WIRE	559 LF
CLASS 4 WOOD POLE	4 EACH
SIGNAL HEADS	20 EACH
TEMPORARY LUMINAIRES	4 EACH
EVP DETECTOR HEADS	4 EACH
NON-INTRUSIVE DETECTION	4 EACH
TEMPORARY SIGNAL CABINET AND CONTROLLER	1 EACH

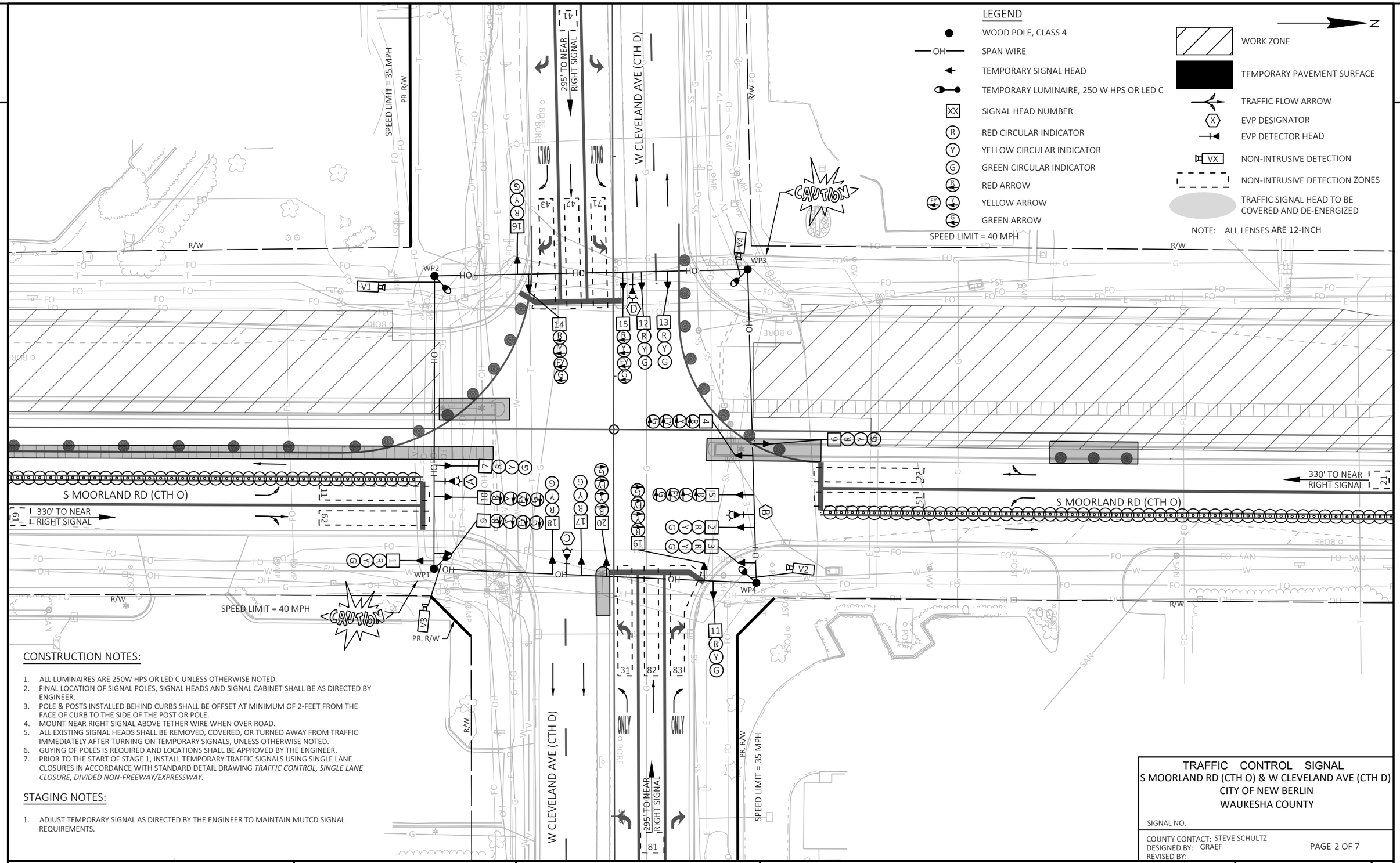
TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-STAGE	SHEET 179	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\01_CLEVELAND\024101PRE-ST1.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:07 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.

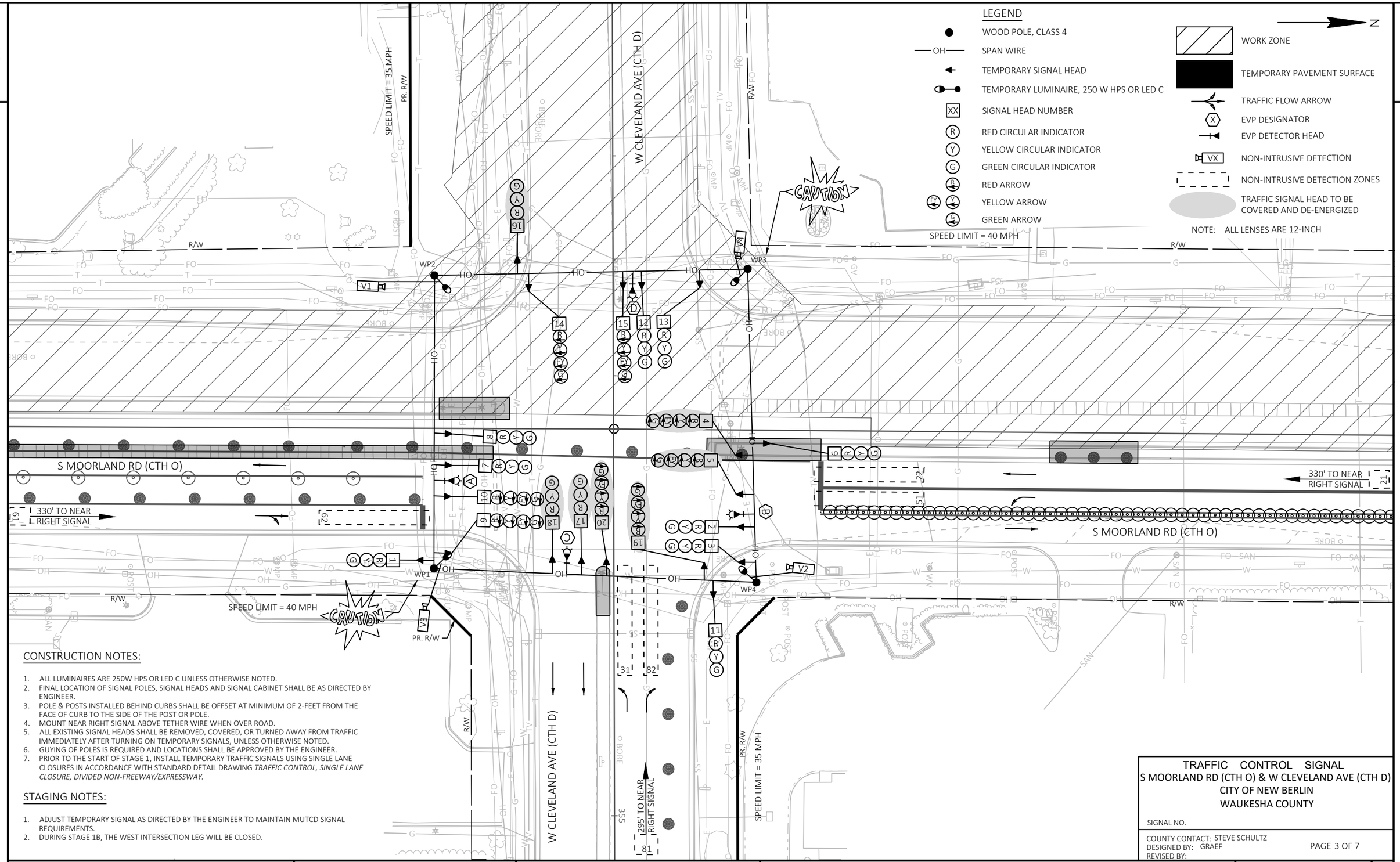
TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 180	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\01_CLEVELAND\024101A-ST1.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:07 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. DURING STAGE 1B, THE WEST INTERSECTION LEG WILL BE CLOSED.

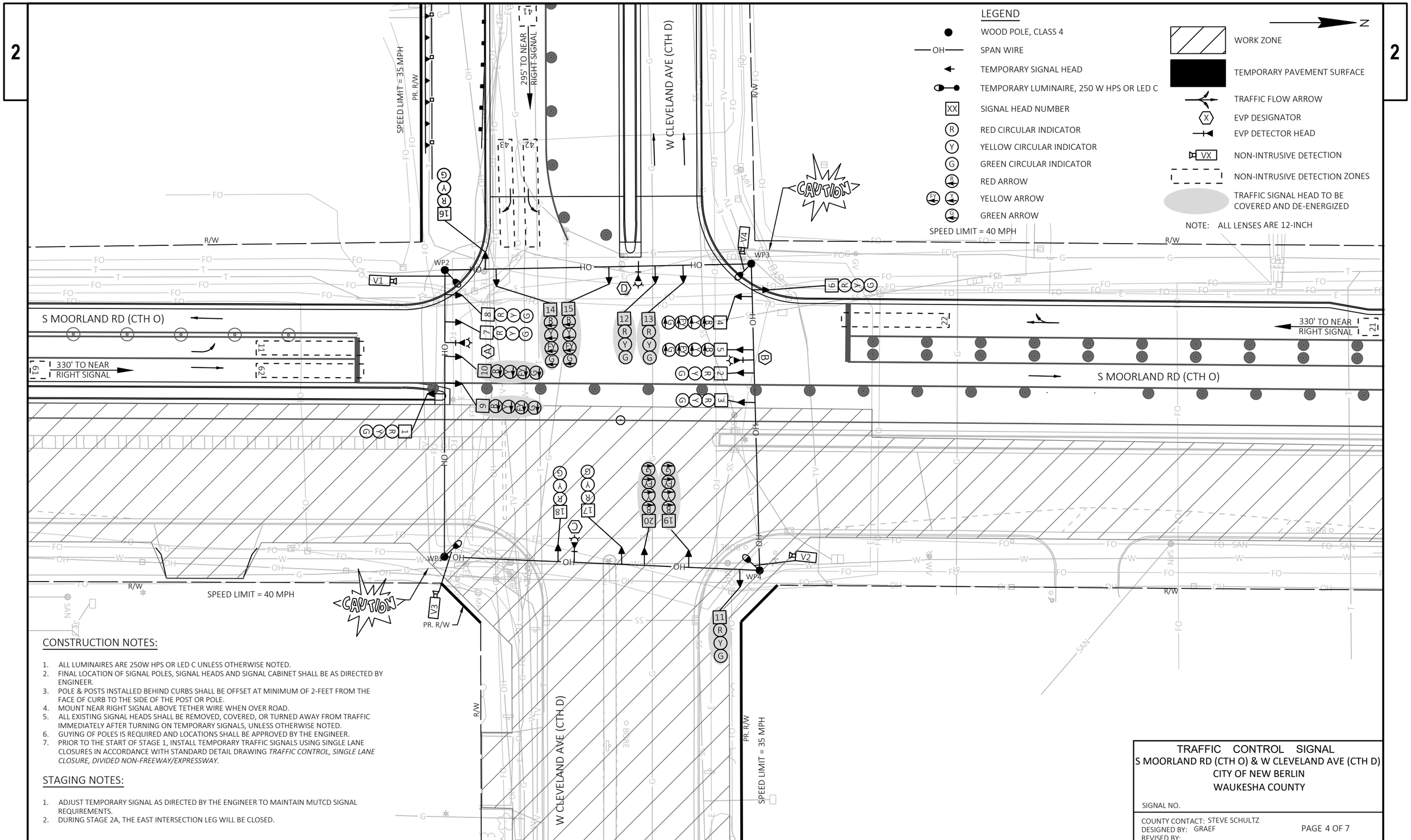
TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 181	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\01_CLEVELAND\024101B-ST1.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:08 PM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. DURING STAGE 2A, THE EAST INTERSECTION LEG WILL BE CLOSED.

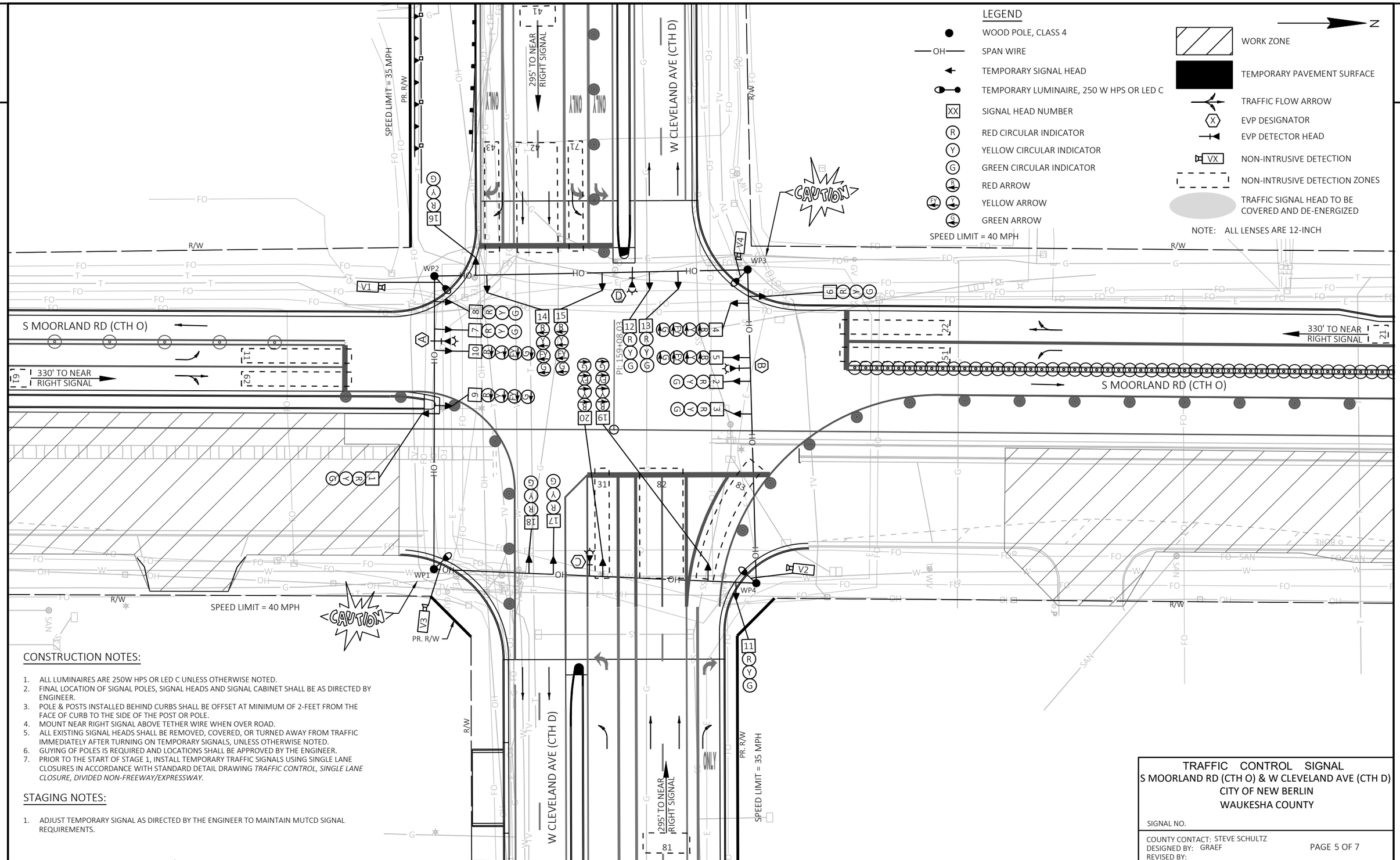
TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 182	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\01_CLEVELAND\024102A-ST1.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:08 PM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.

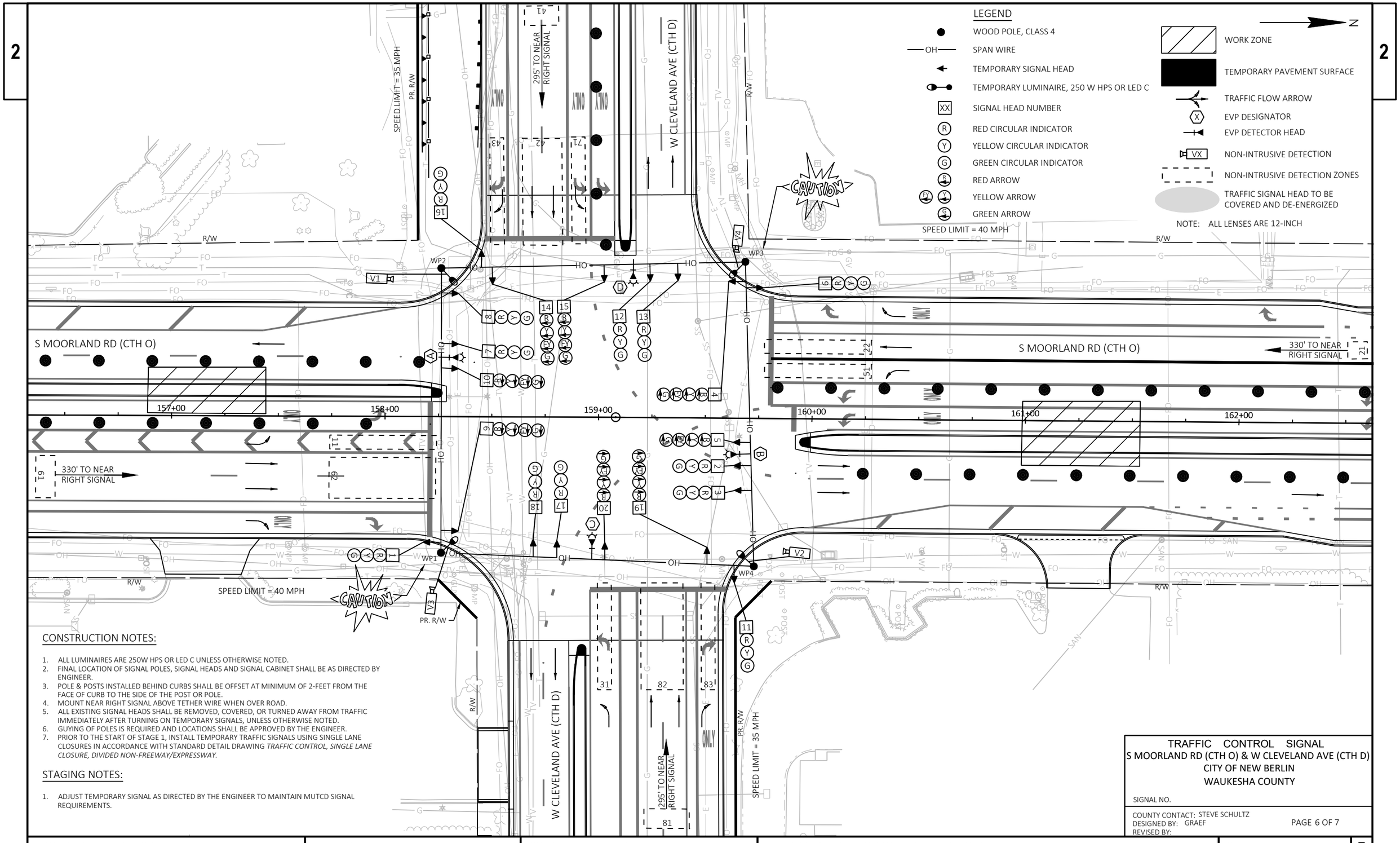
TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B	SHEET 183	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\01_CLEVELAND\024102B-ST1.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:08 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

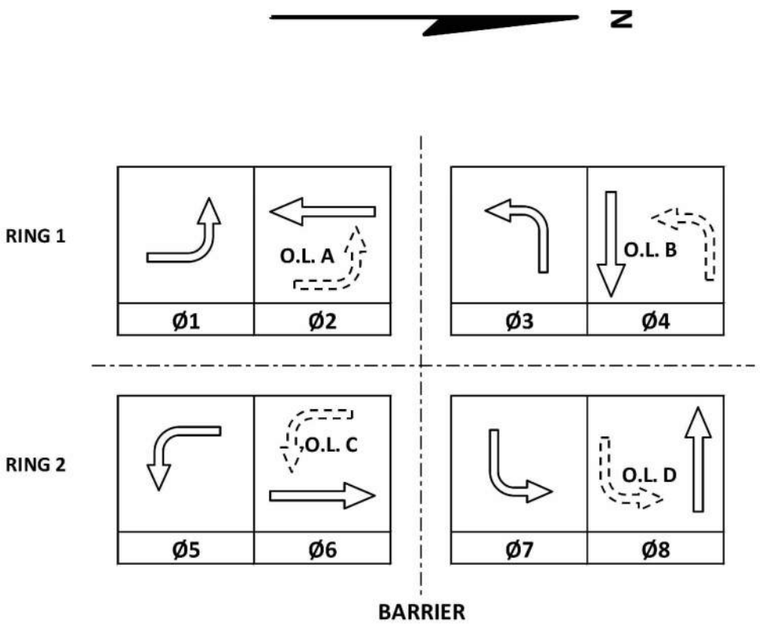
PAGE 6 OF 7

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3A	SHEET 184	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\01_CLEVELAND\024103A-ST1.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:09 PM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5	-
Ø2	6,7,8	R
Ø3	19,20	-
Ø4	11,12,13	R
Ø5	9,10	-
Ø6	1,2,3	R
Ø7	14,15	-
Ø8	16,17,18	R
OLA	4,5	R
OLB	19,20	R
OLC	9,10	R
OLD	14,15	R



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	8+3	4+7

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	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

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

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

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	22	41	43	61	71	82	
CALLED PHASE	1	2	4	4	6	7	8	
CALL OPTION	X	X		X			X	
DELAY TIME				X				
EXTENTION OPTION	X	X	X	X	X	X	X	
EXTEND TIME	X		X			X		
USE ADDED INITIAL		X			X			
CROSS SWITCH PHASE	2					8		

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	21	31	42	51	62	81	83	
CALLED PHASE	2	3	4	5	6	8	8	
CALL OPTION			X		X		X	
DELAY TIME							X	
EXTENTION OPTION	X	X	X	X	X	X	X	
EXTEND TIME		X		X		X		
USE ADDED INITIAL	X				X			
CROSS SWITCH PHASE		4		6				

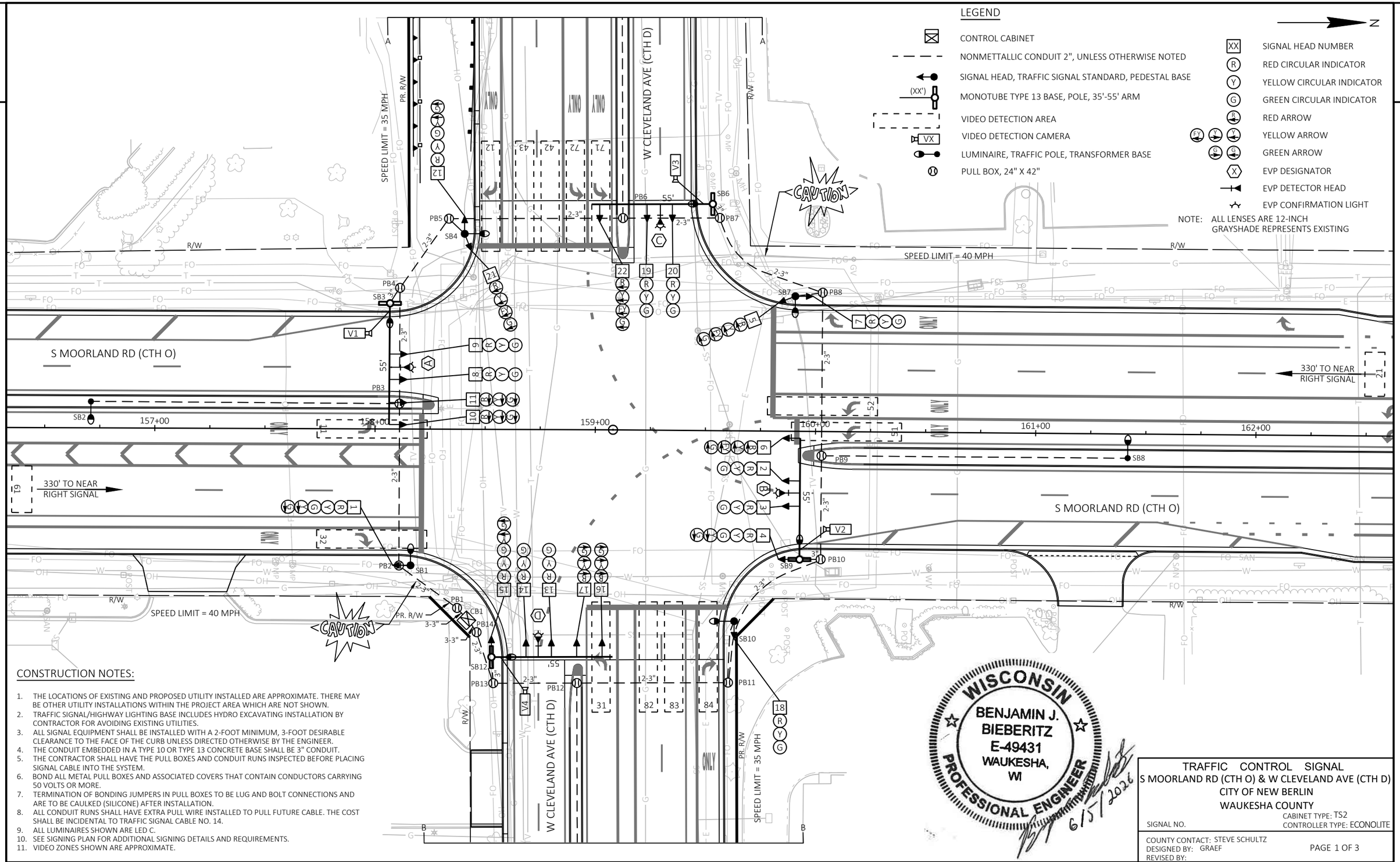
20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED
2. LEFT TURN PHASES SHALL NOT RUN CONCURRENTLY. LEAD 1, LAG 5. LEAD 3, LAG 7.
3. DURING CONSTRUCTION PRE-STAGE, OMIT PHASES 1, AND OL A.
   DURING CONSTRUCTION STAGE 1B, OMIT PHASES 1, 4, 7, OL A, AND OL D.
   DURING CONSTRUCTION STAGE 2A, OMIT PHASES 3, 5, 7, 8 OL B, OL C, AND OL D.

S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO: CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP
DATE: 5/2026 PAGE NO. 7 OF 7



CONSTRUCTION NOTES:

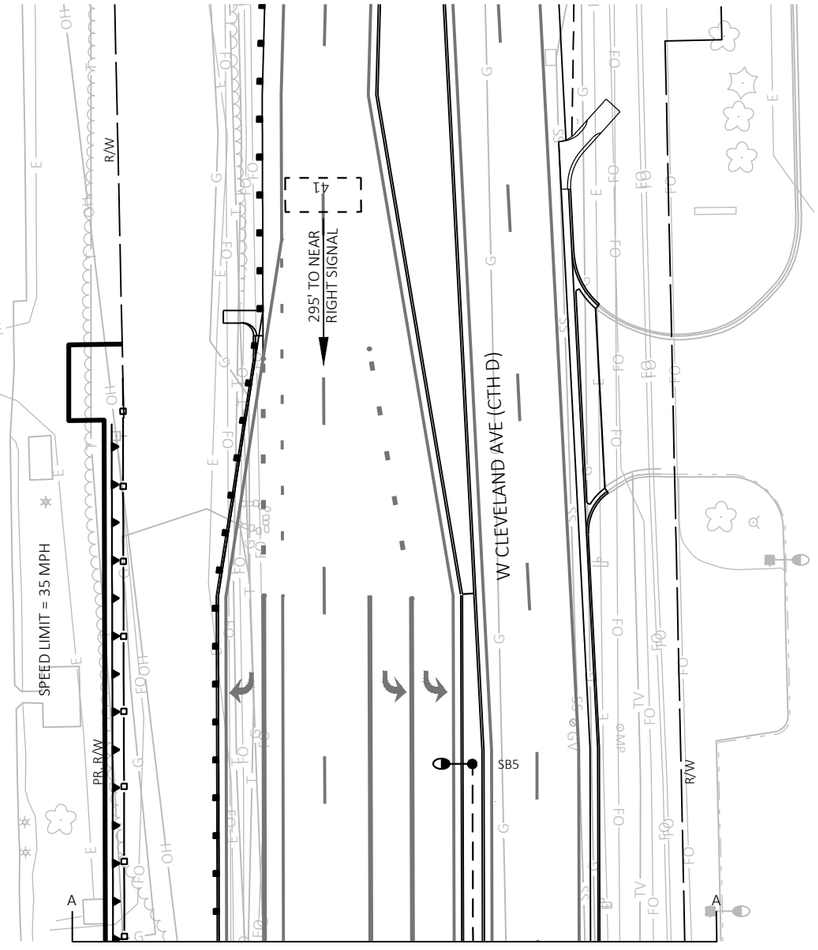
1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLED ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2. TRAFFIC SIGNAL/HIGHWAY LIGHTING BASE INCLUDES HYDRO EXCAVATING INSTALLATION BY CONTRACTOR FOR AVOIDING EXISTING UTILITIES.
3. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A 2-FOOT MINIMUM, 3-FOOT DESIRABLE CLEARANCE TO THE FACE OF THE CURB UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
4. THE CONDUIT EMBEDDED IN A TYPE 10 OR TYPE 13 CONCRETE BASE SHALL BE 3" CONDUIT.
5. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO THE SYSTEM.
6. BOND ALL METAL PULL BOXES AND ASSOCIATED COVERS THAT CONTAIN CONDUCTORS CARRYING 50 VOLTS OR MORE.
7. TERMINATION OF BONDING JUMPERS IN PULL BOXES TO BE LUG AND BOLT CONNECTIONS AND ARE TO BE CAULKED (SILICONE) AFTER INSTALLATION.
8. ALL CONDUIT RUNS SHALL HAVE EXTRA PULL WIRE INSTALLED TO PULL FUTURE CABLE. THE COST SHALL BE INCIDENTAL TO TRAFFIC SIGNAL CABLE NO. 14.
9. ALL LUMINAIRES SHOWN ARE LED C.
10. SEE SIGNING PLAN FOR ADDITIONAL SIGNING DETAILS AND REQUIREMENTS.
11. VIDEO ZONES SHOWN ARE APPROXIMATE.

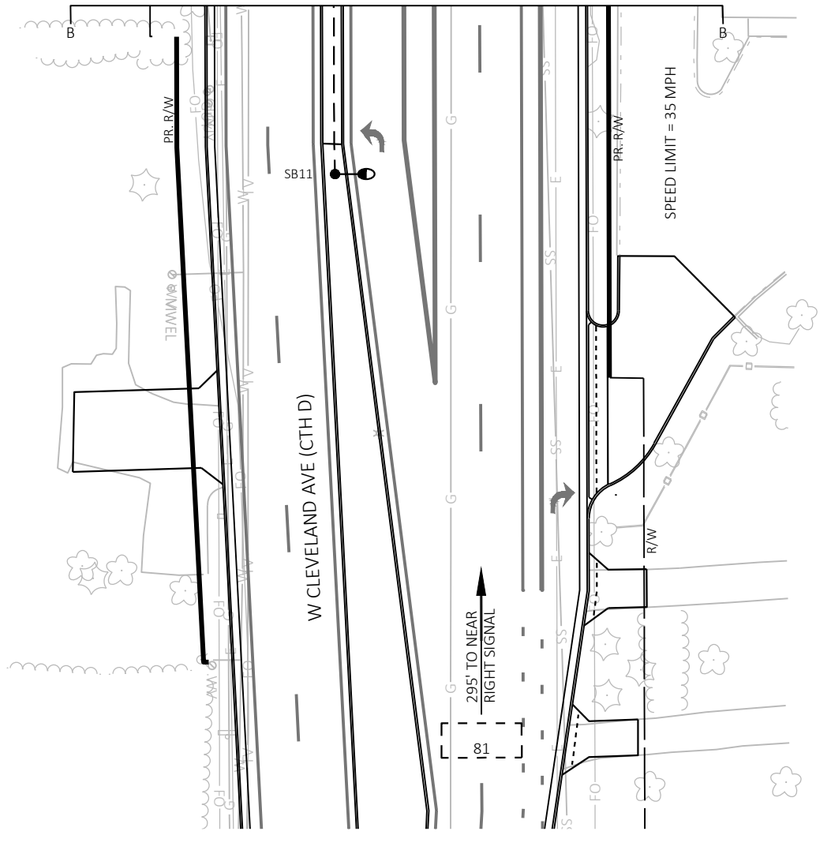
WISCONSIN
BENJAMIN J. BIEBERITZ
E-49431
WAUKESHA, WI
PROFESSIONAL ENGINEER
6/5/2026

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY
SIGNAL NO.
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:
PAGE 1 OF 3

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 186	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\01_CLEVELAND\024201-SP1.DWG
LAYOUT NAME - 024201-sp
PLOT DATE : 6/5/2026 8:58 AM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42





N

2

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY

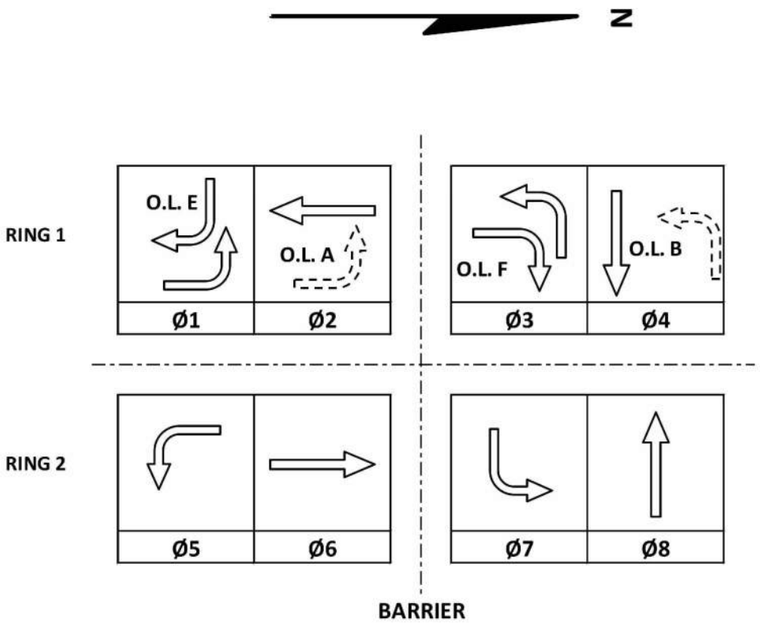
SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 187	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\01_CLEVELAND\024201-SP1.DWG
LAYOUT NAME - 024202-sp
PLOT DATE : 4/23/2026 1:09 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6	-
Ø2	7,8,9	R
Ø3	21,22	-
Ø4	12,13,14,15	R
Ø5	10,11	R
Ø6	1,2,3,4	R
Ø7	16,17	R
Ø8	18,19,20	R
OLA	5,6	R
OLB	21,22	R
OLC		
OLD		
OLE	12,15	R
OLF	1,4	R



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		5		X
2	X	6	MIN	X
3		8		X
4		7		X
5		1		X
6	X	2	MIN	X
7		4		X
8		3		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*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

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	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	32	42	51	61	72	82
CALLED PHASE	1	2	3	4	5	6	7	8
CALL OPTION	X			X	X		X	X
DELAY TIME			X					
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME	X		X		X		X	
USE ADDED INITIAL		X				X		
CROSS SWITCH PHASE	2							

19	17	23	21	27	25	31	29	DETECTOR INPUT
84								PLAN LOOP DETECTOR*(S)
8								CALLED PHASE
X								CALL OPTION
X								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)	12	31	41	43	52	71	81	83
CALLED PHASE	1	3	4	4	5	7	8	8
CALL OPTION		X		X	X	X		X
DELAY TIME	X							
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME	X	X	X		X	X	X	
USE ADDED INITIAL								
CROSS SWITCH PHASE		4						

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED

S MOORLAND RD (CTH O) & W CLEVELAND AVE (CTH D)
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO: CABINET TYPE: TS2-S
CONTROLLER TYPE: ECON
DATE: 5/2026 PAGE NO. 3 OF 3

PROJECT ID:	2772-04-71
INTERSECTION:	CTH O & CTH D

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 BUTTON	PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK		
SB1	12												
		1	RED	ORG	GRN		WHT/BLK	BLU					
SB3	12												
		8	RED	ORG	GRN								
		9	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK					
		11				RED/BLK	ORG/BLK	GRN/BLK					
SB4	12												
		12	RED	ORG	GRN		WHT/BLK	BLU					
		21				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB6	12												
		19	RED	ORG	GRN								
		20	RED	ORG	GRN								
		22				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB7	12												
		5				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		7	RED	ORG	GRN								
SB9	12												
		2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN		WHT/BLK	BLU					
		6				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB10	12												
		18	RED	ORG	GRN								
SB12	12												
		13	RED	ORG	GRN								
		14	RED	ORG	GRN								
		15	RED	ORG	GRN		WHT/BLK	BLU					
		16				RED/BLK	ORG/BLK	GRN/BLK					
		17				RED/BLK	ORG/BLK	GRN/BLK					

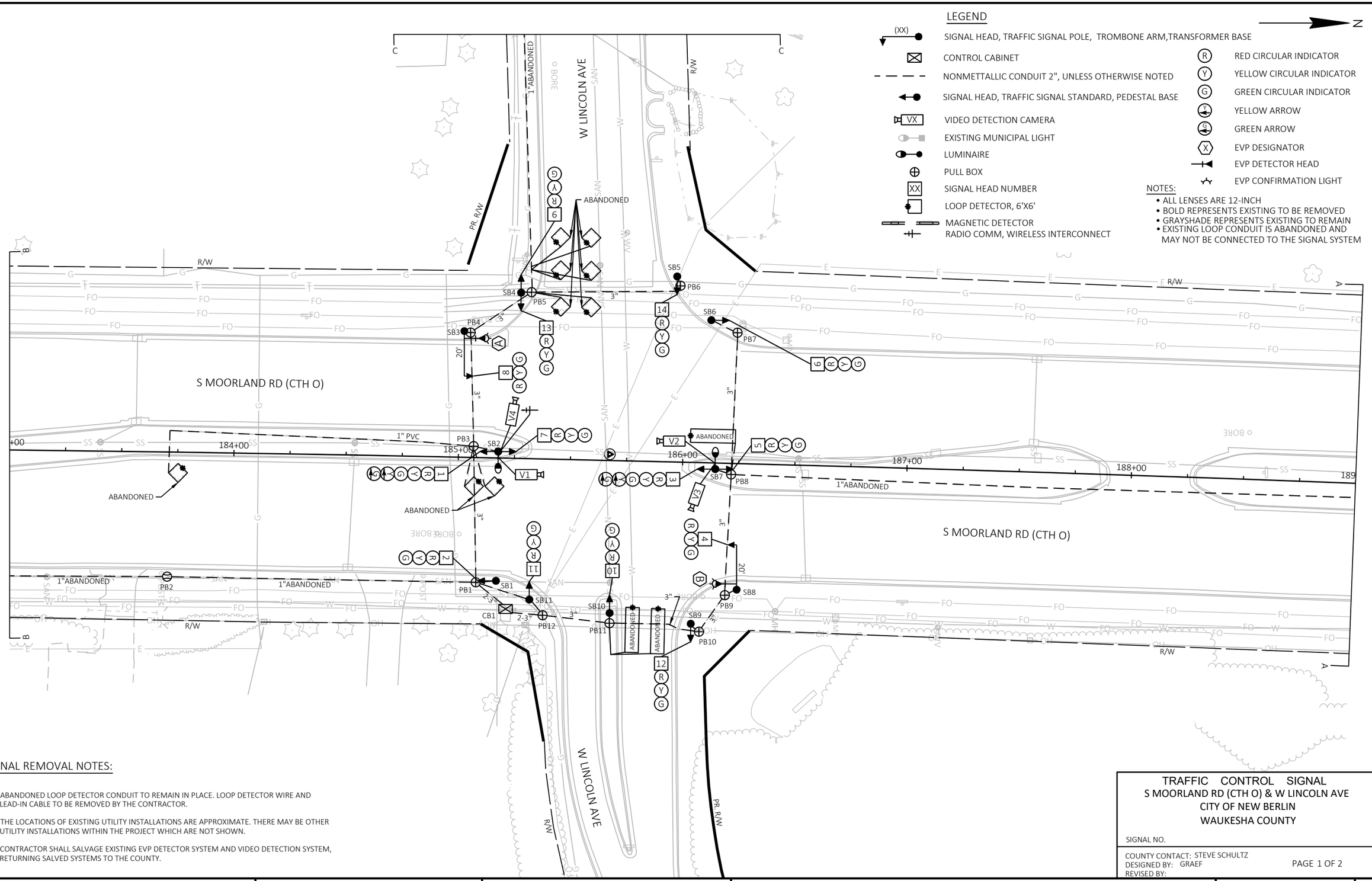
EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB3
SB3	SB4
SB4	SB6
SB6	SB7
SB7	SB9
SB9	SB10
SB10	SB12
SB12	CB1

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB2	SB1
PB3	SB3
PB4	SB3
PB5	SB4
PB6	SB6
PB7	SB6
PB8	SB7
PB9	SB9
PB10	SB9
PB11	SB10
PB12	SB12
PB13	SB12
PB14	CB1

LIGHTING UF 10 AWG W/ GROUND	
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
CB1	SB12
SB12	SB11
SB11	SB10
SB10	SB9
SB9	SB8
SB8	SB7

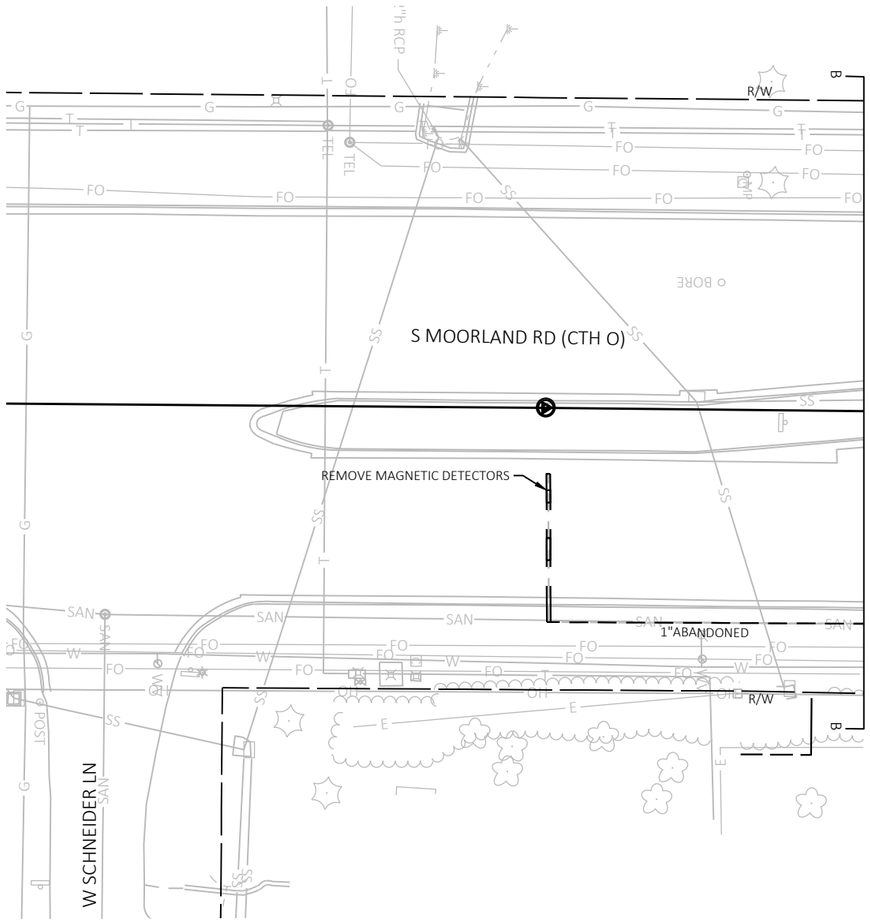
EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	HEAD A (SB3)
CB1	HEAD B (SB9)
CB1	HEAD C (SB6)
CB1	HEAD D (SB12)

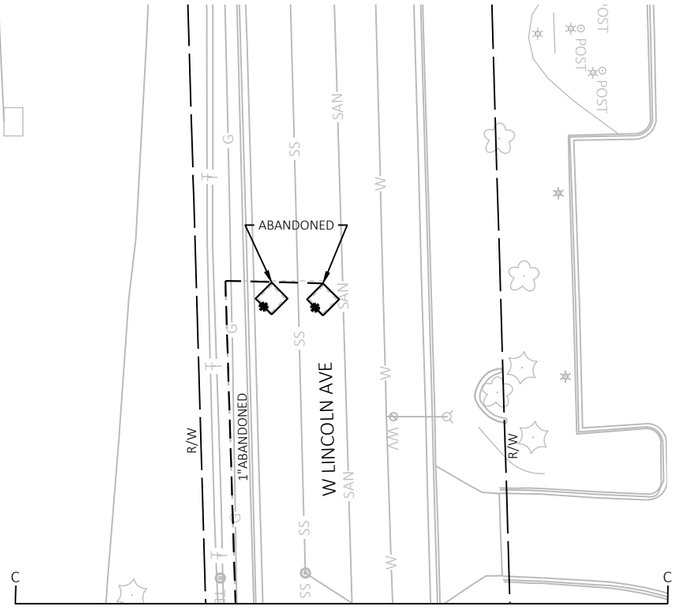
NOTES:
*USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
*RECONNECT THE GROUNDING CONDUCTORS WHENEVER THE CIRCUIT HAS BEEN INTERRUPTED TO ENSURE THE GROUNDING CIRCUIT IS COMPLETE.

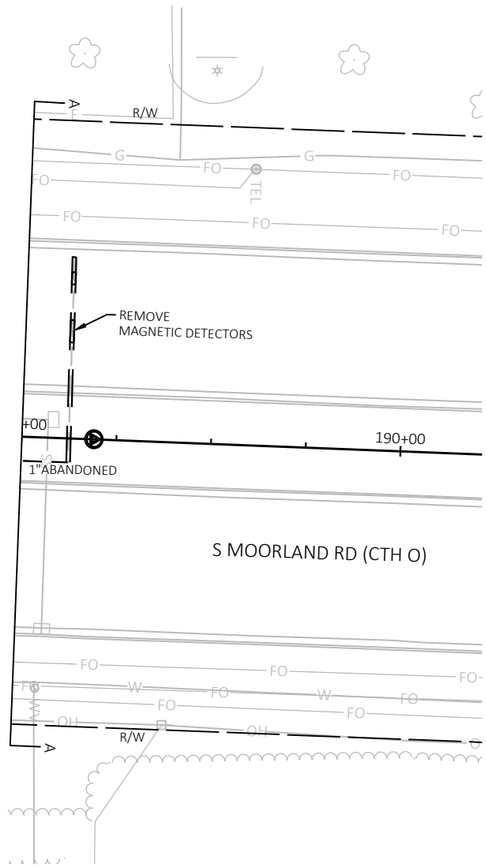


PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 190	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\02_LINCOLN\024001-SR2.DWG
LAYOUT NAME - 024001-sr
PLOT DATE : 4/23/2026 1:10 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT







N

2

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W LINCOLN AVE
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

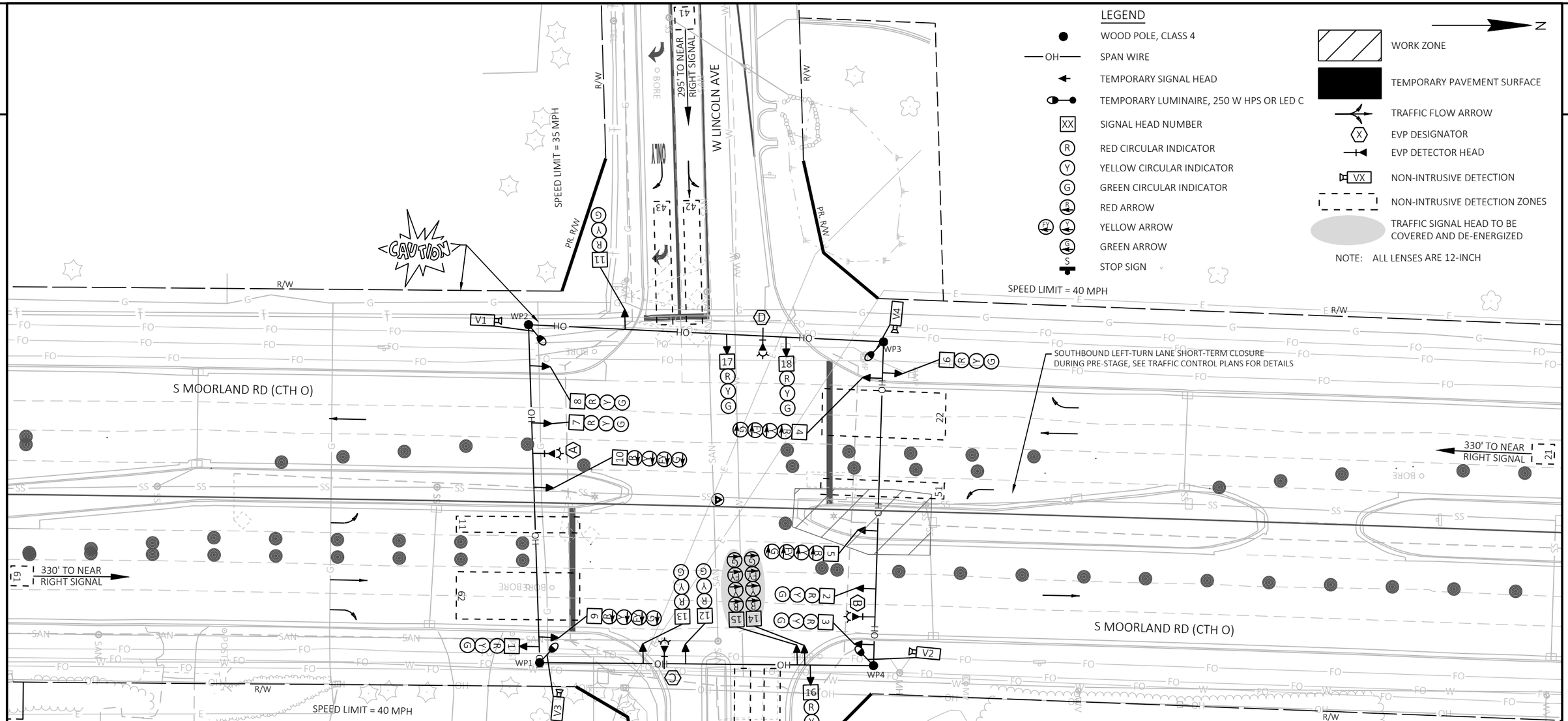
COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 191	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\02_LINCOLN\024001-SR2.DWG
LAYOUT NAME - 024002-sr
PLOT DATE : 4/23/2026 1:10 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. DURING THE PRE-STAGE, SOUTHBOUND LEFT-TURN MOVEMENTS WILL BE SIGNED PROHIBITED AT THE INTERSECTION.

SUMMARY	
SPAN WIRE	547 LF
CLASS 4 WOOD POLE	4 EACH
SIGNAL HEADS	16 EACH
TEMPORARY LUMINAIRES	4 EACH
EVP DETECTOR HEADS	4 EACH
NON-INTRUSIVE DETECTION	4 EACH
TEMPORARY SIGNAL CABINET AND CONTROLLER	1 EACH

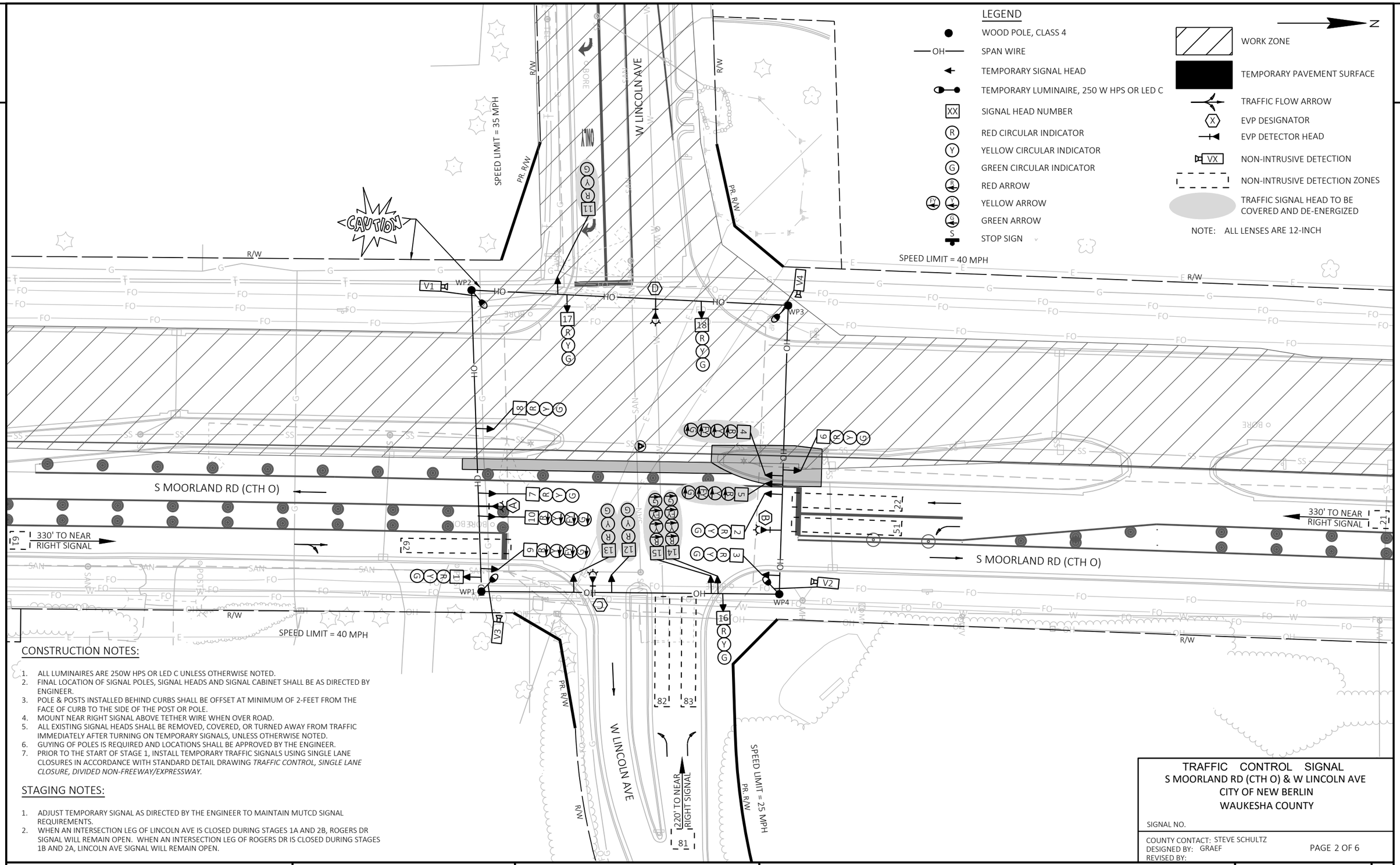
TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W LINCOLN AVE
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-STAGE	SHEET 192	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\02_LINCOLN\024101PRE-ST2.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:10 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. WHEN AN INTERSECTION LEG OF LINCOLN AVE IS CLOSED DURING STAGES 1A AND 2B, ROGERS DR SIGNAL WILL REMAIN OPEN. WHEN AN INTERSECTION LEG OF ROGERS DR IS CLOSED DURING STAGES 1B AND 2A, LINCOLN AVE SIGNAL WILL REMAIN OPEN.

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W LINCOLN AVE
CITY OF NEW BERLIN
WAUKESHA COUNTY

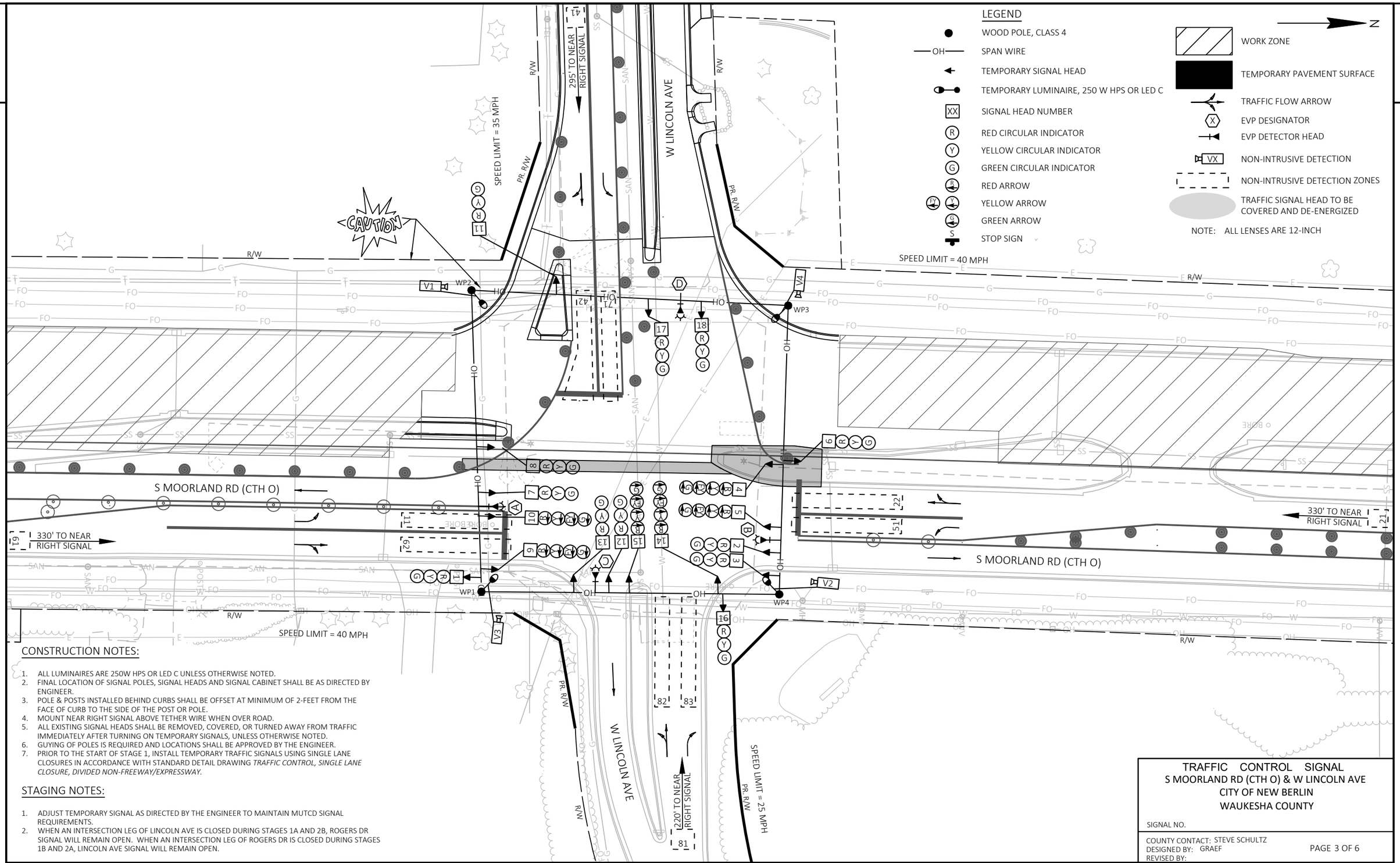
SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PAGE 2 OF 6

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 193	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\02_LINCOLN\024101A-ST2.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:11 PM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. WHEN AN INTERSECTION LEG OF LINCOLN AVE IS CLOSED DURING STAGES 1A AND 2B, ROGERS DR SIGNAL WILL REMAIN OPEN. WHEN AN INTERSECTION LEG OF ROGERS DR IS CLOSED DURING STAGES 1B AND 2A, LINCOLN AVE SIGNAL WILL REMAIN OPEN.

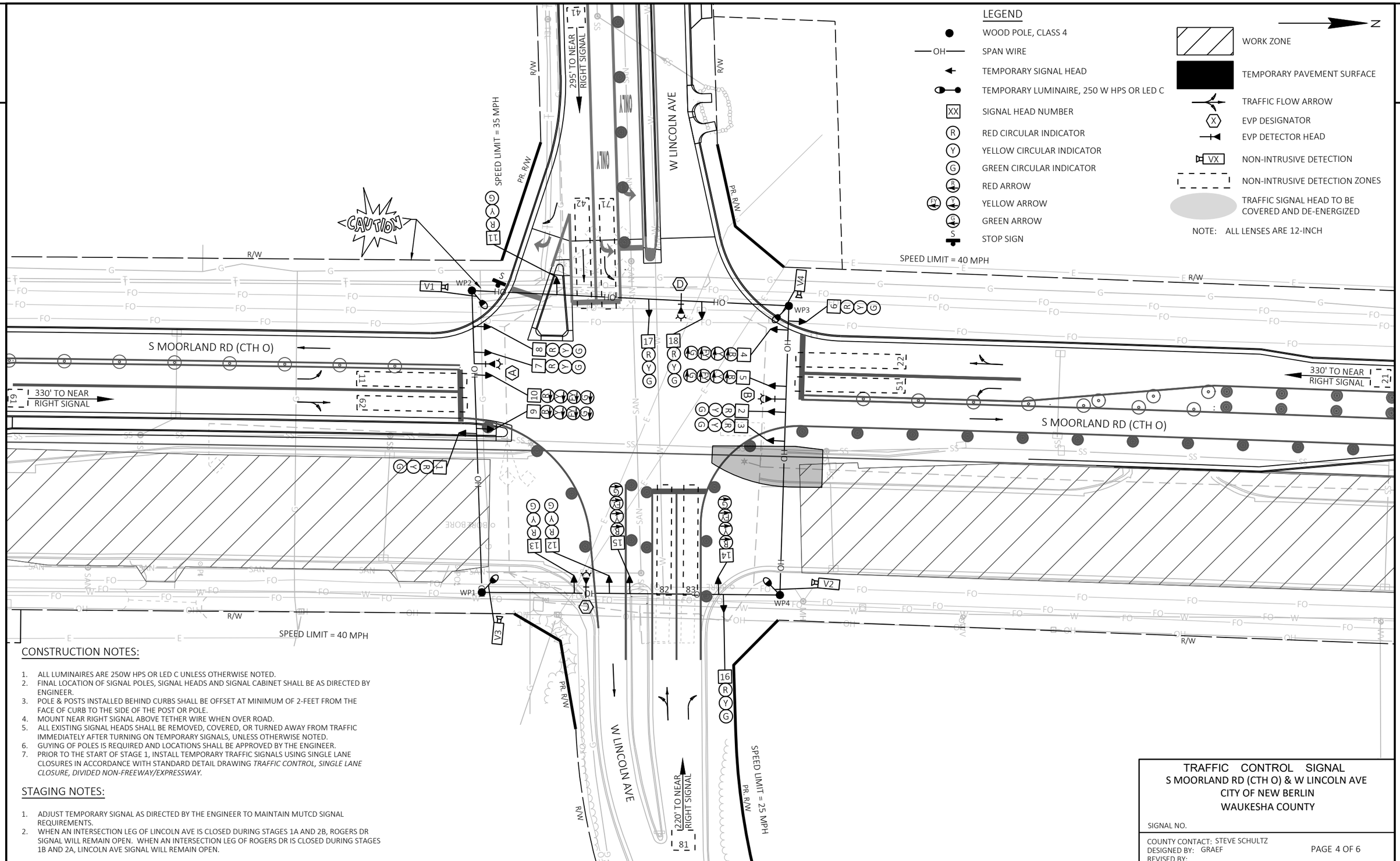
TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W LINCOLN AVE
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 194	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\02_LINCOLN\024101B-ST2.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:11 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. WHEN AN INTERSECTION LEG OF LINCOLN AVE IS CLOSED DURING STAGES 1A AND 2B, ROGERS DR SIGNAL WILL REMAIN OPEN. WHEN AN INTERSECTION LEG OF ROGERS DR IS CLOSED DURING STAGES 1B AND 2A, LINCOLN AVE SIGNAL WILL REMAIN OPEN.

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W LINCOLN AVE
CITY OF NEW BERLIN
WAUKESHA COUNTY

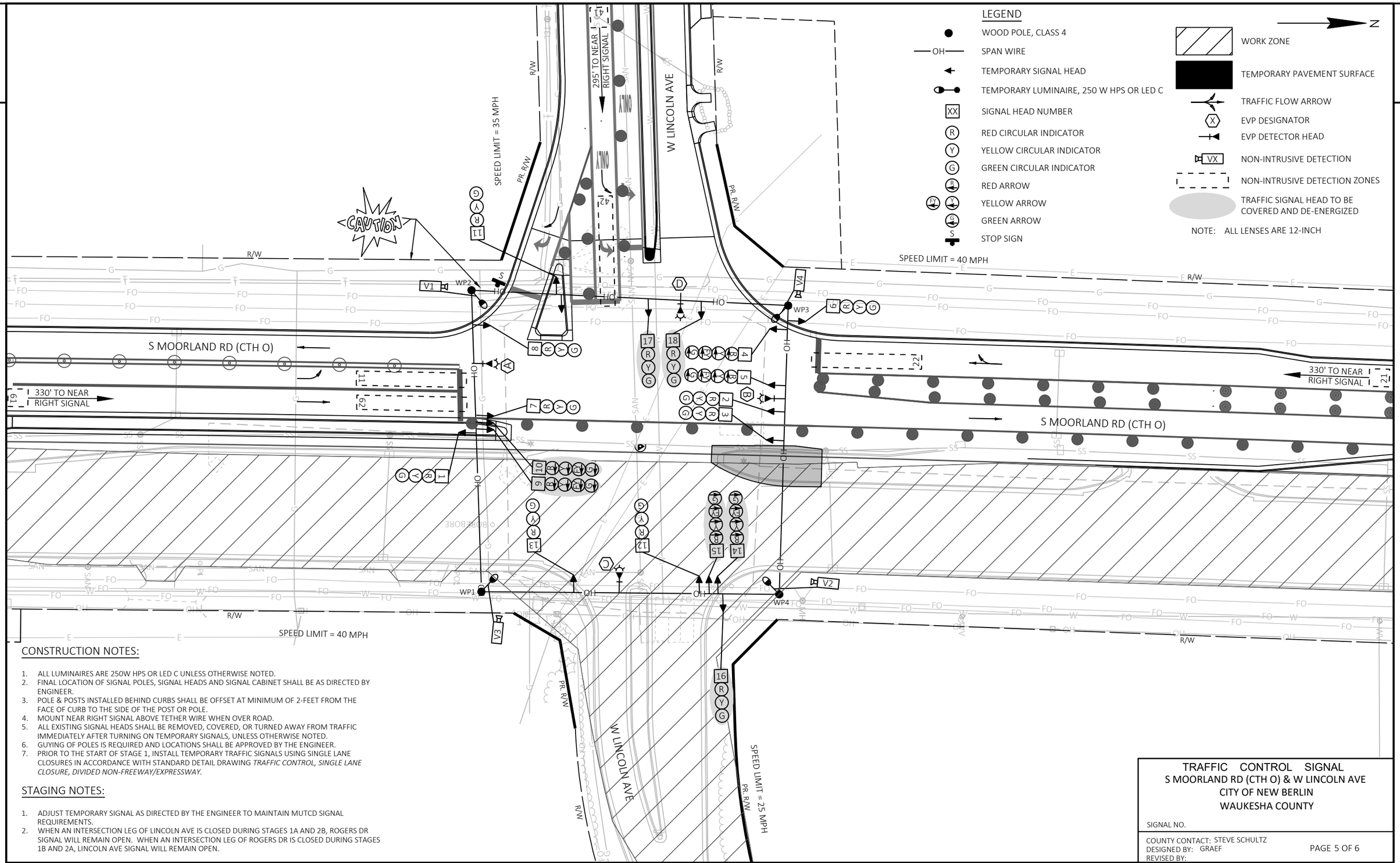
SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PAGE 4 OF 6

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 195 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\02_LINCOLN\024102A-ST2.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:11 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. WHEN AN INTERSECTION LEG OF LINCOLN AVE IS CLOSED DURING STAGES 1A AND 2B, ROGERS DR SIGNAL WILL REMAIN OPEN. WHEN AN INTERSECTION LEG OF ROGERS DR IS CLOSED DURING STAGES 1B AND 2A, LINCOLN AVE SIGNAL WILL REMAIN OPEN.

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W LINCOLN AVE
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

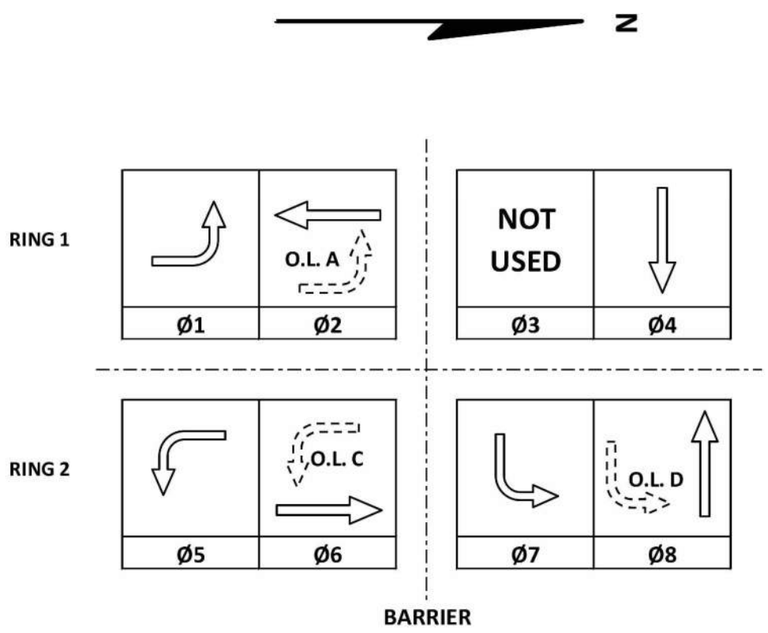
COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PAGE 5 OF 6

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B	SHEET 196	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\02_LINCOLN\024102B-ST2.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:12 PM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5	-
Ø2	6,7,8	R
Ø3		
Ø4	11,12,13	R
Ø5	9,10	-
Ø6	1,2,3	R
Ø7	14,15	-
Ø8	16,17,18	R
OLA	4,5	R
OLC	9,10	R
OLD	14,15	R



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		
4		8		X
5		2		X
6	X	2	MIN	X
7		4		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	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

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

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

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	22	42	51	62	81	83	
CALLED PHASE	1	2	4	5	6	8	8	
CALL OPTION	X	X	X	X	X		X	
DELAY TIME							X	
EXTENTION OPTION	X	X	X	X	X	X	X	
EXTEND TIME	X			X		X		
USE ADDED INITIAL		X			X			
CROSS SWITCH PHASE	2			6				

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	21	41	43	61	71	82		
CALLED PHASE	2	4	4	6	7	8		
CALL OPTION			X		X	X		
DELAY TIME			X					
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME		X			X			
USE ADDED INITIAL	X			X				
CROSS SWITCH PHASE					8			

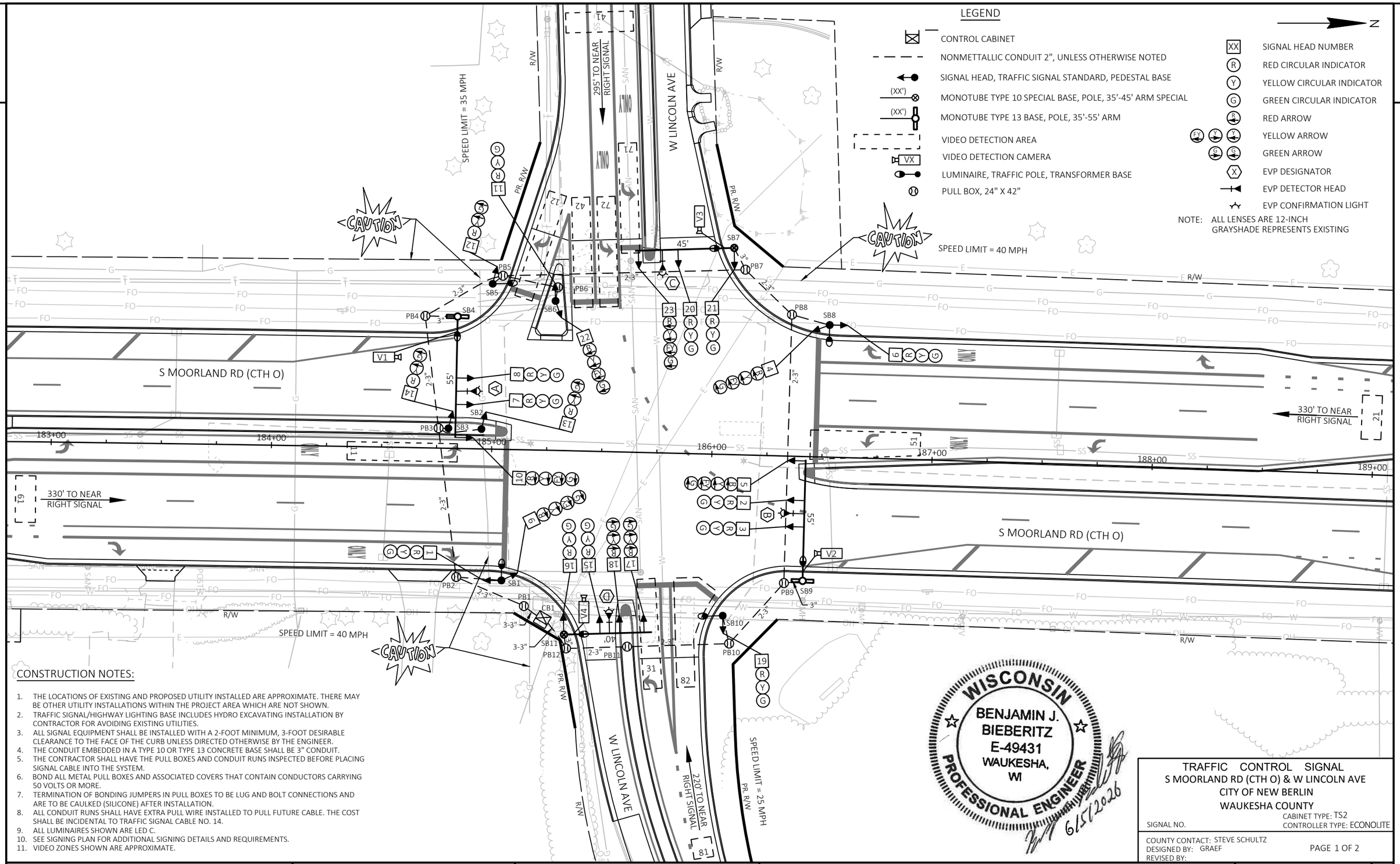
DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED
2. LEFT TURN PHASES SHALL NOT RUN CONCURRENTLY. LEAD 1, LAG 5.
3. DURING CONSTRUCTION STAGE 1A, OMIT PHASES 1, 4, 7, OL A, AND OL D. DURING CONSTRUCTION STAGE 2B, OMIT PHASES 5, 7, 8, OL C AND OL D.

S MOORLAND RD (CTH O) & W LINCOLN AVE
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO: CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP
DATE: 5/2026 PAGE NO. 6 OF 6



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLED ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2. TRAFFIC SIGNAL/HIGHWAY LIGHTING BASE INCLUDES HYDRO EXCAVATING INSTALLATION BY CONTRACTOR FOR AVOIDING EXISTING UTILITIES.
3. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A 2-FOOT MINIMUM, 3-FOOT DESIRABLE CLEARANCE TO THE FACE OF THE CURB UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
4. THE CONDUIT EMBEDDED IN A TYPE 10 OR TYPE 13 CONCRETE BASE SHALL BE 3" CONDUIT.
5. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO THE SYSTEM.
6. BOND ALL METAL PULL BOXES AND ASSOCIATED COVERS THAT CONTAIN CONDUCTORS CARRYING 50 VOLTS OR MORE.
7. TERMINATION OF BONDING JUMPERS IN PULL BOXES TO BE LUG AND BOLT CONNECTIONS AND ARE TO BE CAULKED (SILICONE) AFTER INSTALLATION.
8. ALL CONDUIT RUNS SHALL HAVE EXTRA PULL WIRE INSTALLED TO PULL FUTURE CABLE. THE COST SHALL BE INCIDENTAL TO TRAFFIC SIGNAL CABLE NO. 14.
9. ALL LUMINAIRES SHOWN ARE LED C.
10. SEE SIGNING PLAN FOR ADDITIONAL SIGNING DETAILS AND REQUIREMENTS.
11. VIDEO ZONES SHOWN ARE APPROXIMATE.

WISCONSIN
BENJAMIN J. BIEBERITZ
E-49431
WAUKESHA, WI
PROFESSIONAL ENGINEER
6/5/2026

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O) & W LINCOLN AVE
CITY OF NEW BERLIN
WAUKESHA COUNTY
SIGNAL NO.
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

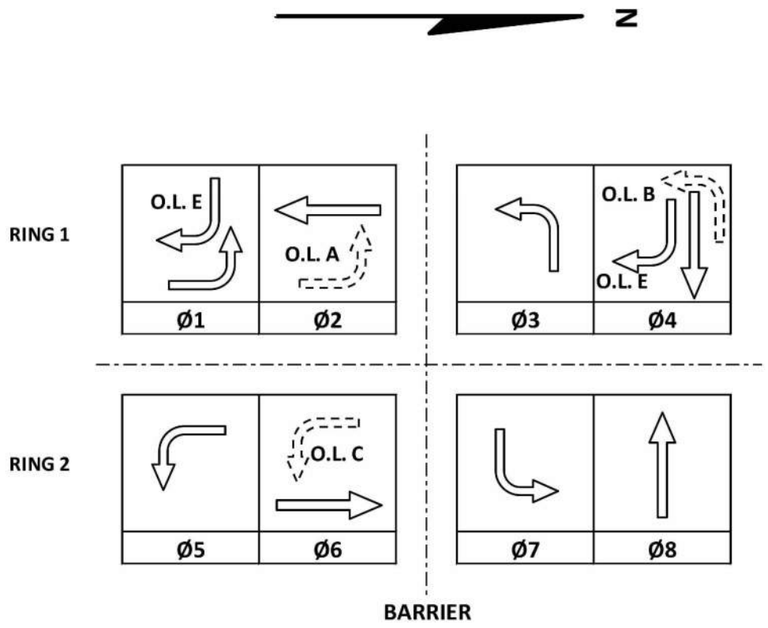
COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PAGE 1 OF 2

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 198	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\02_LINCOLN\024201-SP2.DWG
LAYOUT NAME - 024201-sp
PLOT DATE : 6/5/2026 9:04 AM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5	-
Ø2	6,7,8	R
Ø3	21,22	-
Ø4	11,15,16	R
Ø5	9,10	-
Ø6	1,2,3	R
Ø7	17,18	R
Ø8	19,20,21	R
OLA	4,5	R
OLB	22,23	R
OLC	9,10	R
OLE	12,13,14	R



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	8+3	4+7

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*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

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	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	41	51	71	81		
CALLED PHASE	1	2	4	5	7	8		
CALL OPTION	X			X	X			
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME	X		X	X	X	X		
USE ADDED INITIAL		X						
CROSS SWITCH PHASE	2			6	8			

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	31	42	61	72	82		
CALLED PHASE	1	3	4	6	7	8		
CALL OPTION		X	X	X	X	X		
DELAY TIME	X							
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME	X	X		X	X			
USE ADDED INITIAL								
CROSS SWITCH PHASE					8			

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED

S MOORLAND RD (CTH O) & W LINCOLN AVE
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO: CABINET TYPE: TS2
CONTROLLER TYPE: ECON
DATE: 5/2026 PAGE NO. 2 OF 2

PROJECT ID:	2772-04-71
INTERSECTION:	CTH O & LINCOLN AVE

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 BUTTON	PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK		
SB1	12												
		1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB2	12												
		13	RED	ORG				GRN					
SB3	12												
		13	RED	ORG				GRN					
SB4	12												
		7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB5	12												
		12	RED	ORG				GRN					
SB6	12												
		11	RED	ORG	GRN								
		21				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB7	12												
		19	RED	ORG	GRN								
		20	RED	ORG	GRN								
		22				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB8	12												
		4				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		6	RED	ORG	GRN								
SB9	12												
		2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB10	12												
		18	RED	ORG	GRN								
SB11	12												
		14	RED	ORG	GRN								
		15	RED	ORG	GRN								
		16				RED/BLK	ORG/BLK	GRN/BLK					
		17				RED/BLK	ORG/BLK	GRN/BLK					

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	CB1

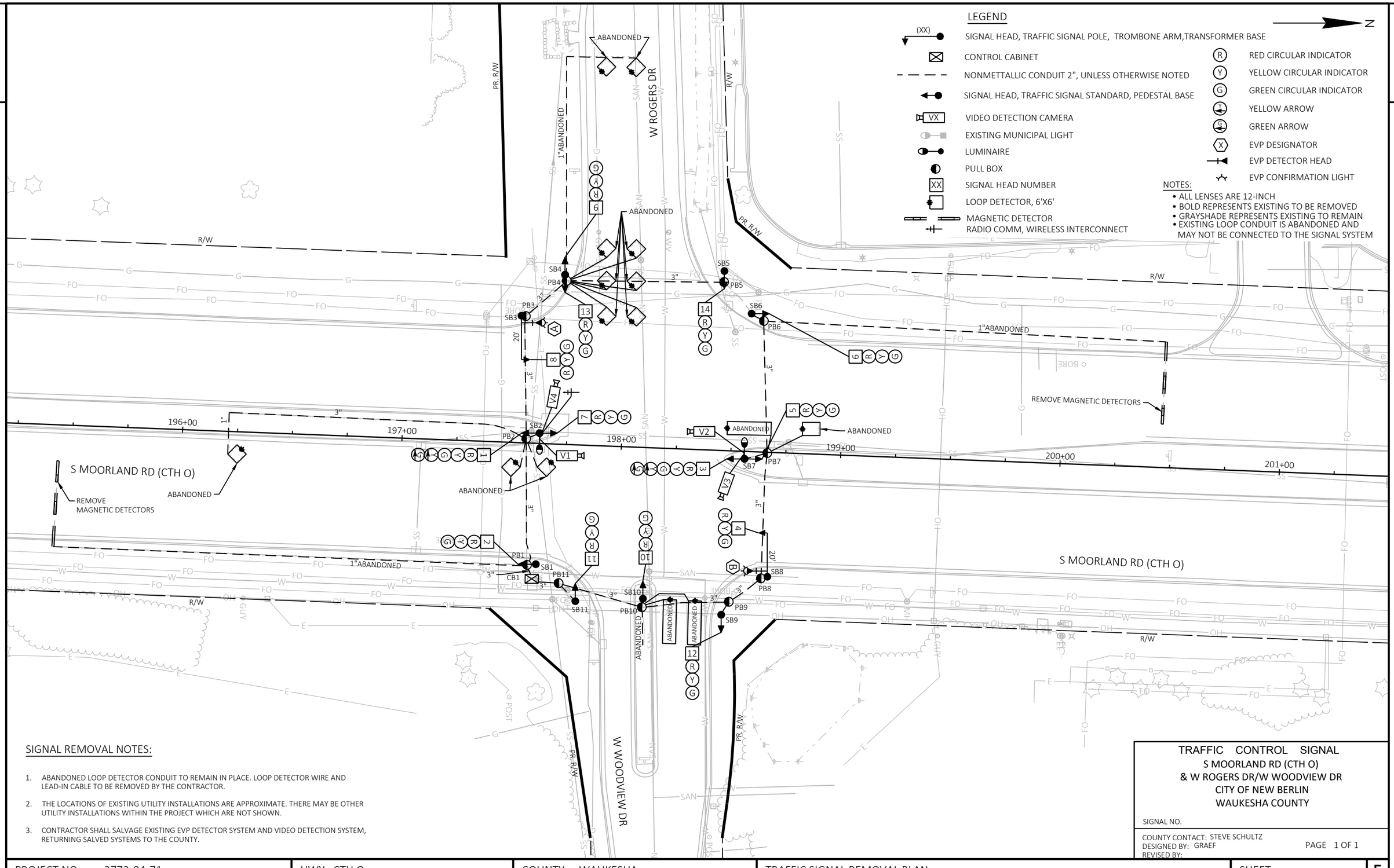
PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB2	SB1
PB3	SB3
PB4	SB4
PB5	SB5
PB6	SB6
PB7	SB7
PB8	SB8
PB9	SB9
PB10	SB10
PB11	SB11
PB12	SB11

LIGHTING UF 10 AWG W/ GROUND	
CB1	SB1
SB1	SB4
SB4	SB5
SB5	SB7
CB1	SB11
SB11	SB10
SB10	SB9
SB9	SB8

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	HEAD A (SB4)
CB1	HEAD B (SB9)
CB1	HEAD C (SB7)
CB1	HEAD D (SB11)

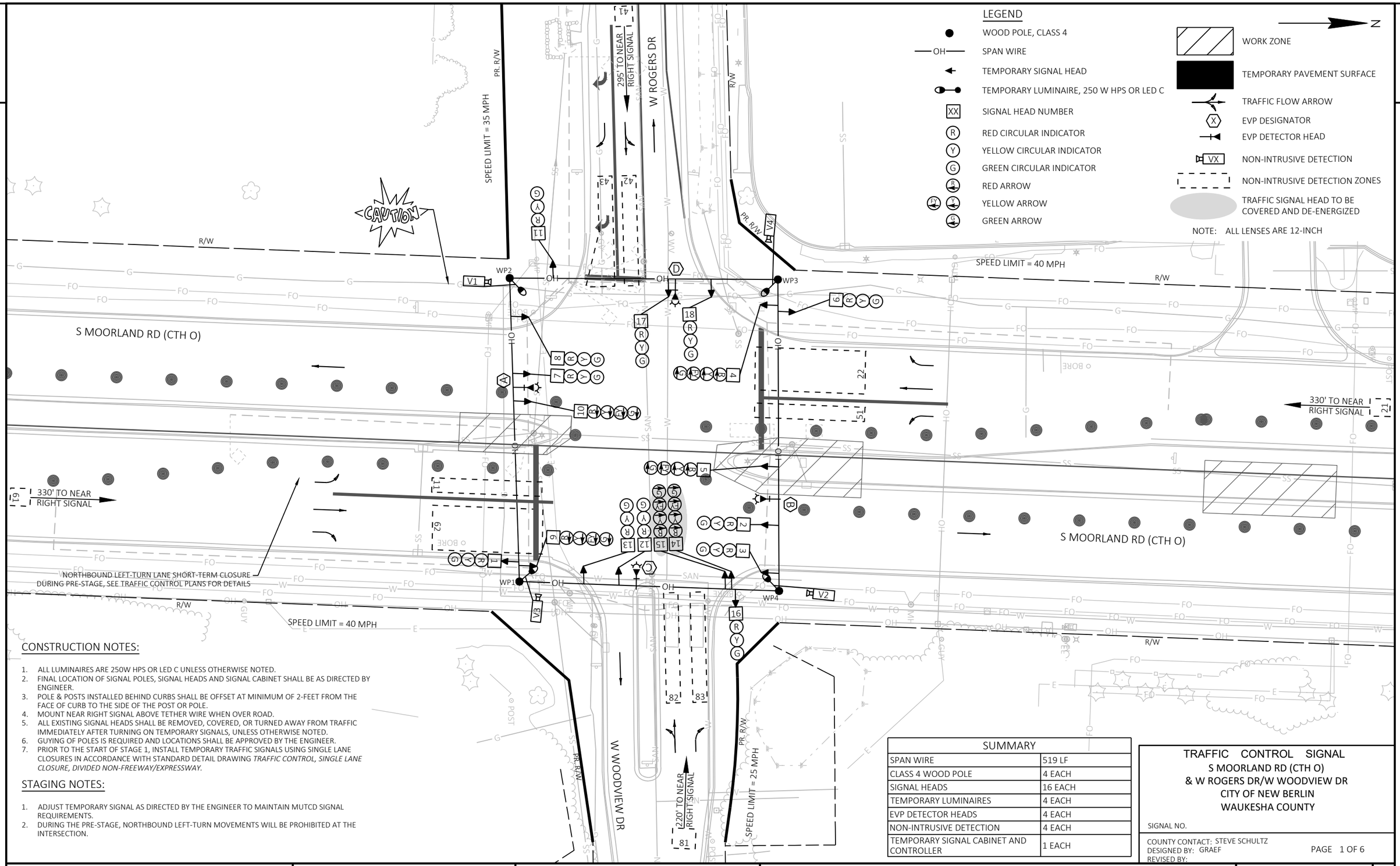
NOTES:

*USE WHITE CONDUCTOR IN THE SIGNAL CABLE 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.
*RECONNECT THE GROUNDING CONDUCTORS WHENEVER THE CIRCUIT HAS BEEN INTERRUPTED TO ENSURE THE GROUNDING CIRCUIT IS COMPLETE.



PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 201	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\03_ROGERS-WOODVIEW\024001-SR3.DWG
LAYOUT NAME - 024001-sr
PLOT DATE : 4/23/2026 1:13 PM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. DURING THE PRE-STAGE, NORTHBOUND LEFT-TURN MOVEMENTS WILL BE PROHIBITED AT THE INTERSECTION.

SUMMARY	
SPAN WIRE	519 LF
CLASS 4 WOOD POLE	4 EACH
SIGNAL HEADS	16 EACH
TEMPORARY LUMINAIRES	4 EACH
EVP DETECTOR HEADS	4 EACH
NON-INTRUSIVE DETECTION	4 EACH
TEMPORARY SIGNAL CABINET AND CONTROLLER	1 EACH

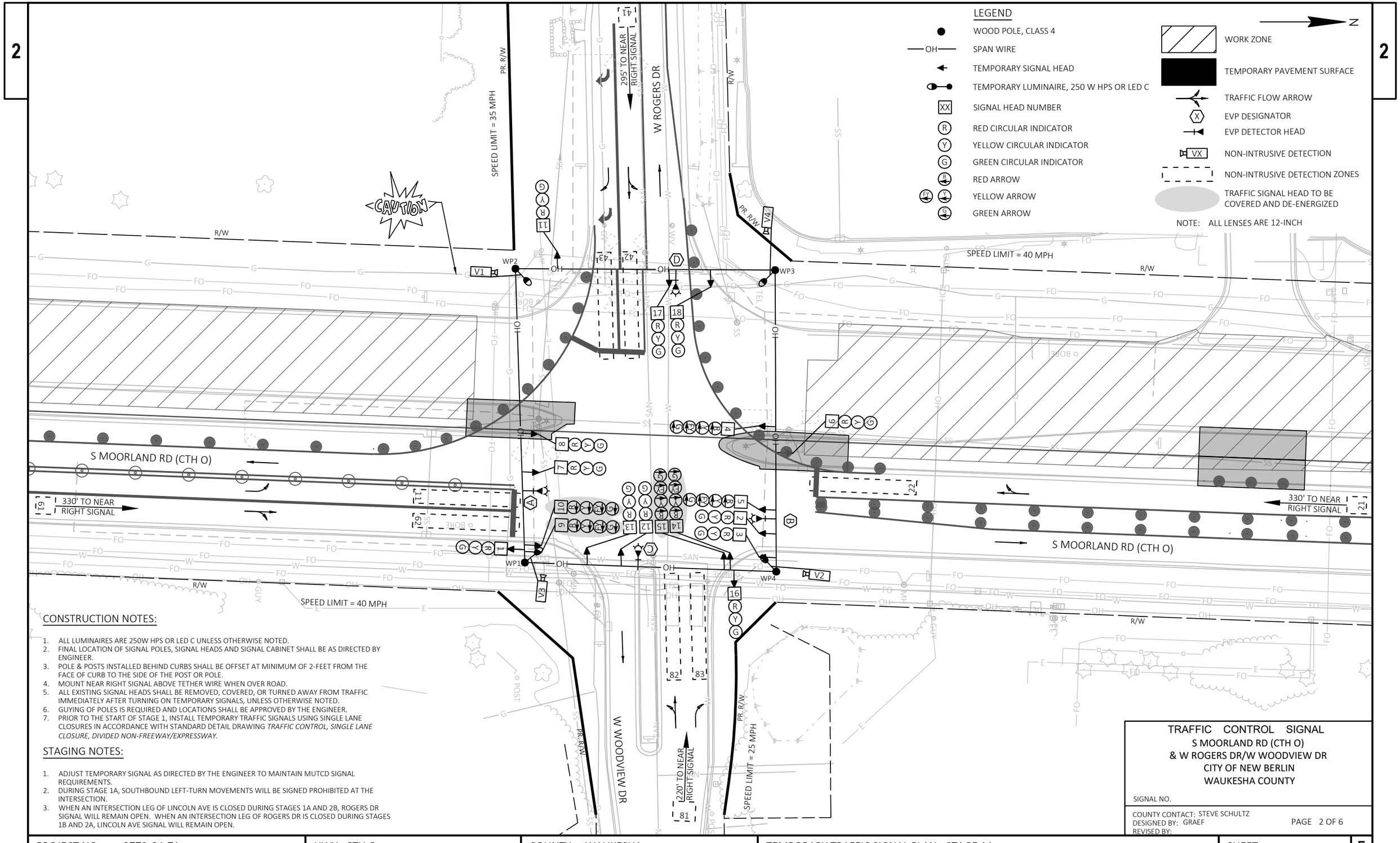
TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O)
& W ROGERS DR/W WOODVIEW DR
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-STAGE	SHEET 202	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\03_ROGERS-WOODVIEW\024101PRE-ST3.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:13 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. DURING STAGE 1A, SOUTHBOUND LEFT-TURN MOVEMENTS WILL BE SIGNED PROHIBITED AT THE INTERSECTION.
3. WHEN AN INTERSECTION LEG OF LINCOLN AVE IS CLOSED DURING STAGES 1A AND 2B, ROGERS DR SIGNAL WILL REMAIN OPEN. WHEN AN INTERSECTION LEG OF ROGERS DR IS CLOSED DURING STAGES 1B AND 2A, LINCOLN AVE SIGNAL WILL REMAIN OPEN.

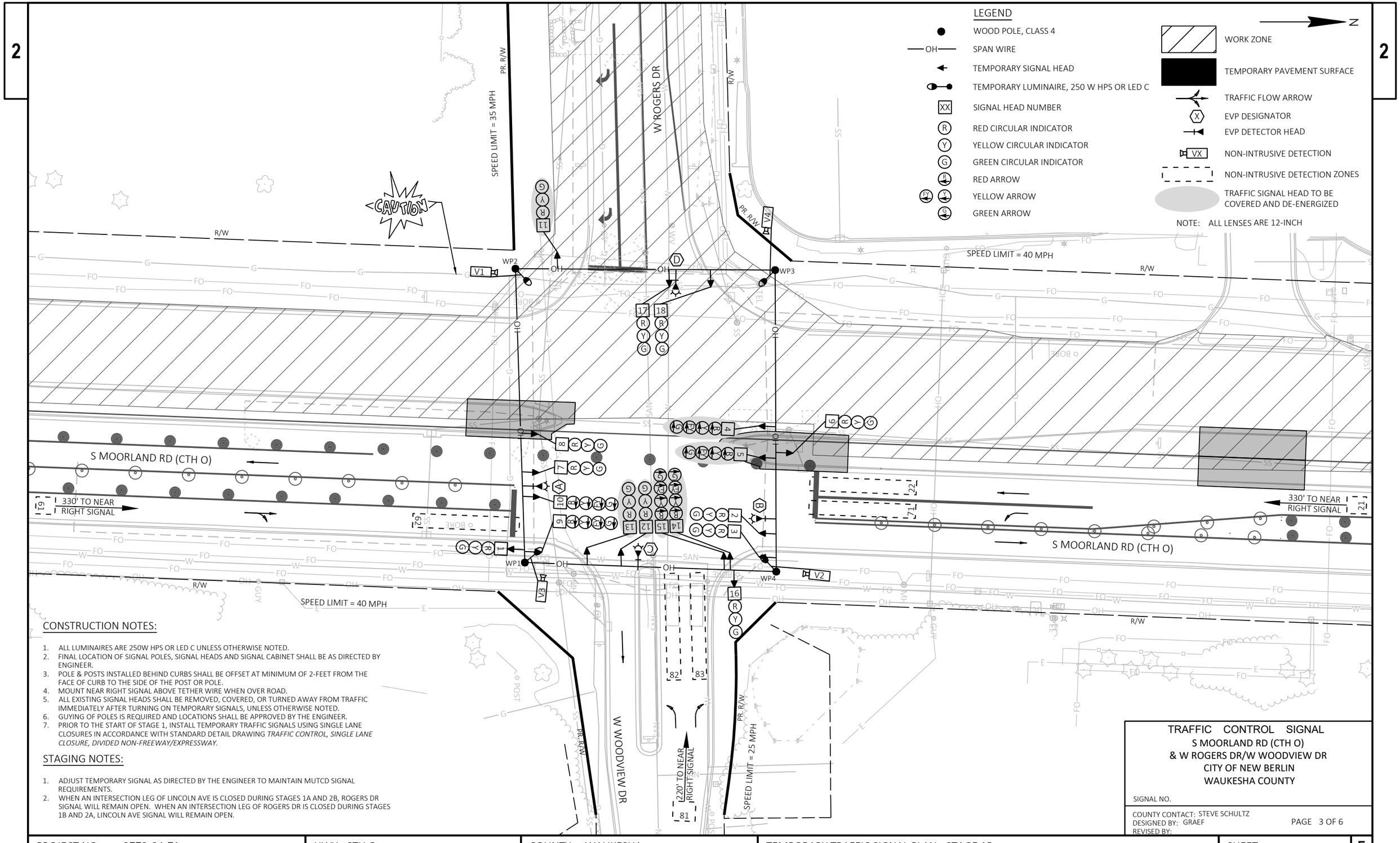
TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O)
& W ROGERS DR/W WOODVIEW DR
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 203	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\03_ROGERS-WOODVIEW\024101A-ST3.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:14 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. WHEN AN INTERSECTION LEG OF LINCOLN AVE IS CLOSED DURING STAGES 1A AND 2B, ROGERS DR SIGNAL WILL REMAIN OPEN. WHEN AN INTERSECTION LEG OF ROGERS DR IS CLOSED DURING STAGES 1B AND 2A, LINCOLN AVE SIGNAL WILL REMAIN OPEN.

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O)
& W ROGERS DR/W WOODVIEW DR
CITY OF NEW BERLIN
WAUKESHA COUNTY

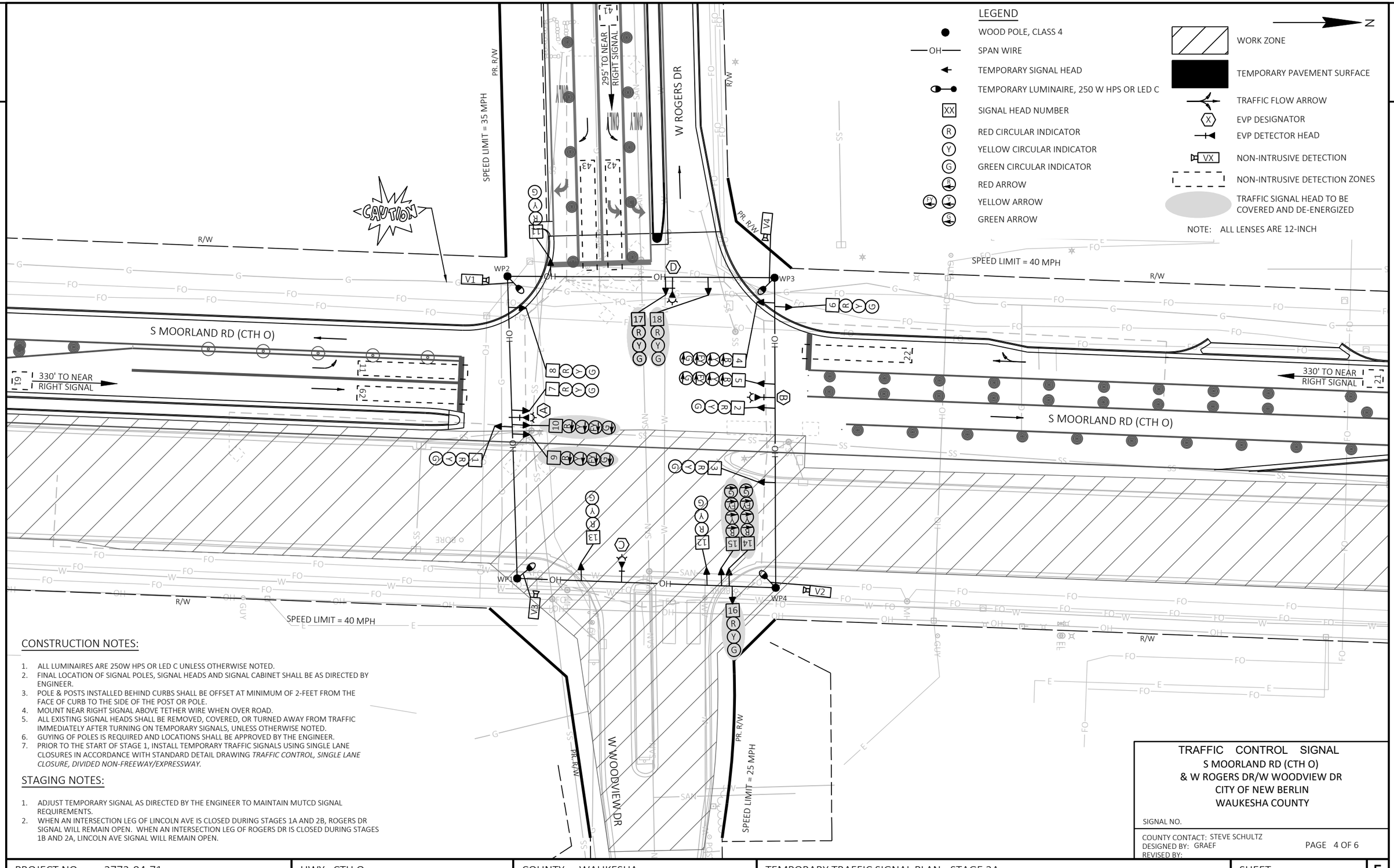
SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PAGE 3 OF 6

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 204	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\03_ROGERS-WOODVIEW\024101B-ST3.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:14 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. WHEN AN INTERSECTION LEG OF LINCOLN AVE IS CLOSED DURING STAGES 1A AND 2B, ROGERS DR SIGNAL WILL REMAIN OPEN. WHEN AN INTERSECTION LEG OF ROGERS DR IS CLOSED DURING STAGES 1B AND 2A, LINCOLN AVE SIGNAL WILL REMAIN OPEN.

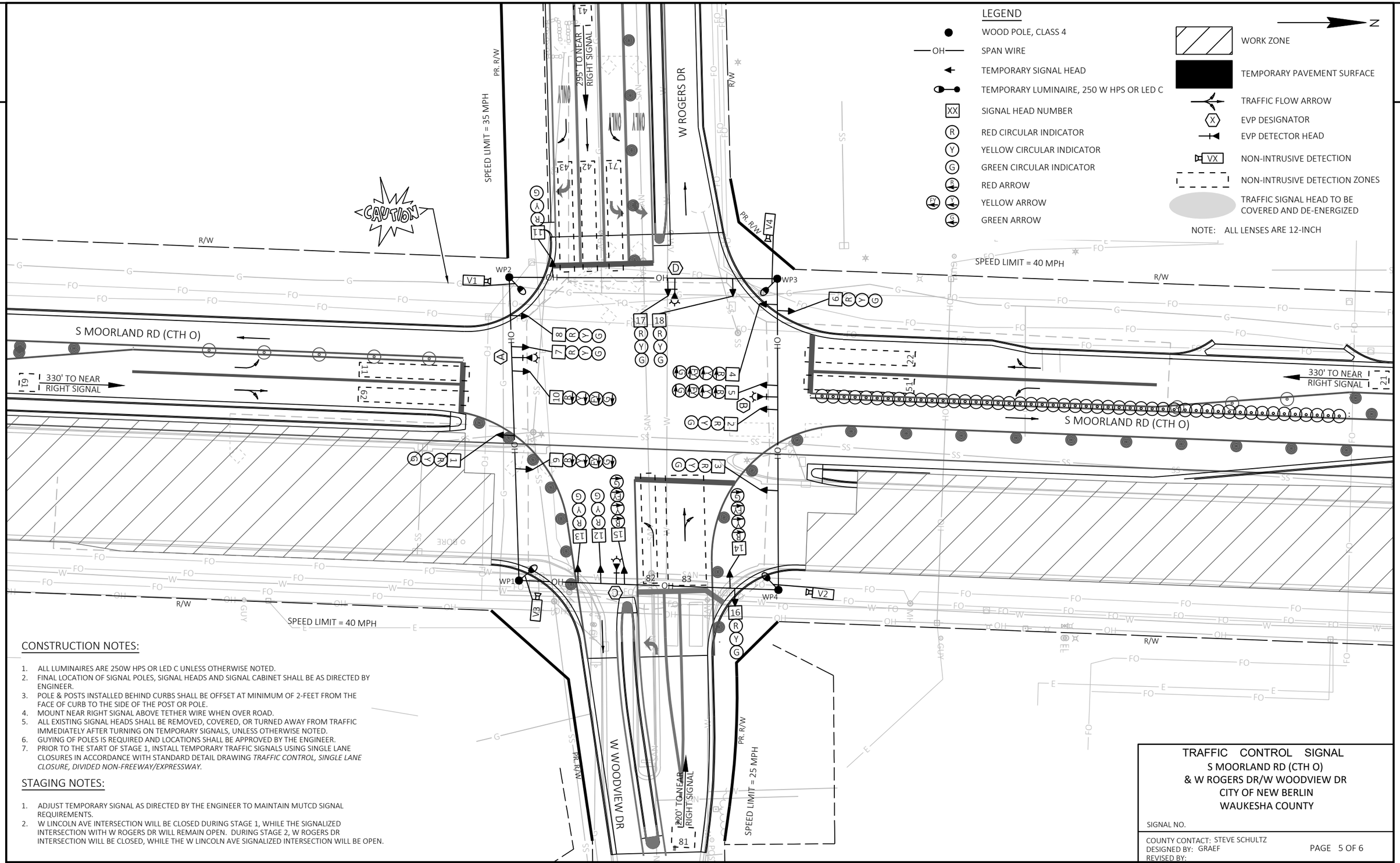
TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O)
& W ROGERS DR/W WOODVIEW DR
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PAGE 4 OF 6

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 205	E



CONSTRUCTION NOTES:

1. ALL LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET AT MINIMUM OF 2-FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS, UNLESS OTHERWISE NOTED.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. PRIOR TO THE START OF STAGE 1, INSTALL TEMPORARY TRAFFIC SIGNALS USING SINGLE LANE CLOSURES IN ACCORDANCE WITH STANDARD DETAIL DRAWING *TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.*

STAGING NOTES:

1. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
2. W LINCOLN AVE INTERSECTION WILL BE CLOSED DURING STAGE 1, WHILE THE SIGNALIZED INTERSECTION WITH W ROGERS DR WILL REMAIN OPEN. DURING STAGE 2, W ROGERS DR INTERSECTION WILL BE CLOSED, WHILE THE W LINCOLN AVE SIGNALIZED INTERSECTION WILL BE OPEN.

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O)
& W ROGERS DR/W WOODVIEW DR
CITY OF NEW BERLIN
WAUKESHA COUNTY

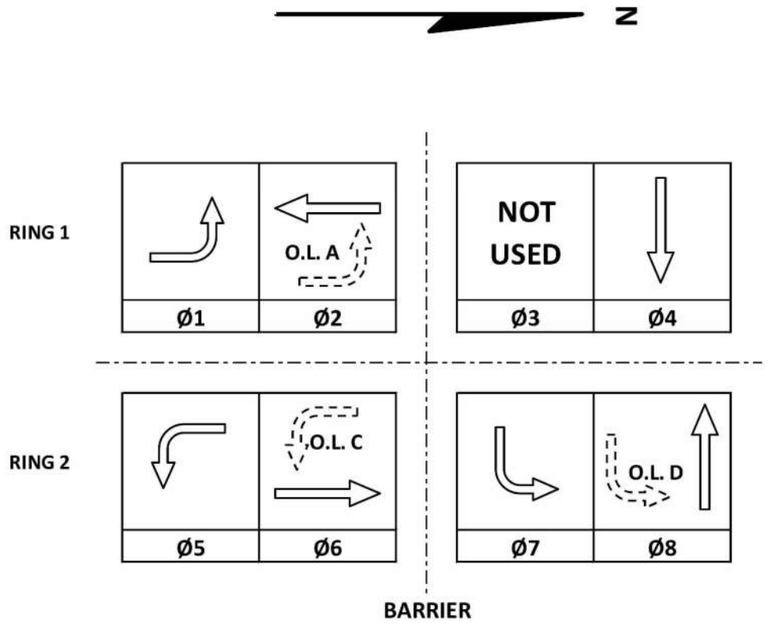
SIGNAL NO.

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B	SHEET 206	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\03_ROGERS-WOODVIEW\024102B-ST3.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 4/23/2026 1:15 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	4,5	-
Ø2	6,7,8	R
Ø3		
Ø4	11,12,13	R
Ø5	9,10	-
Ø6	1,2,3	R
Ø7	14,15	-
Ø8	16,17,18	R
OLA	4,5	R
OLC	9,10	R
OLD	14,15	R



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

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

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

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

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

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	22	42	51	62	81	83	
CALLED PHASE	1	2	4	5	6	8	8	
CALL OPTION	X	X	X	X	X		X	
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	
EXTEND TIME	X			X		X		
USE ADDED INITIAL		X			X			
CROSS SWITCH PHASE	2			6				

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	21	41	43	61	71	82		
CALLED PHASE	2	4	4	6	7	8		
CALL OPTION			X		X	X		
DELAY TIME			X					
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME		X			X			
USE ADDED INITIAL	X			X				
CROSS SWITCH PHASE					8			

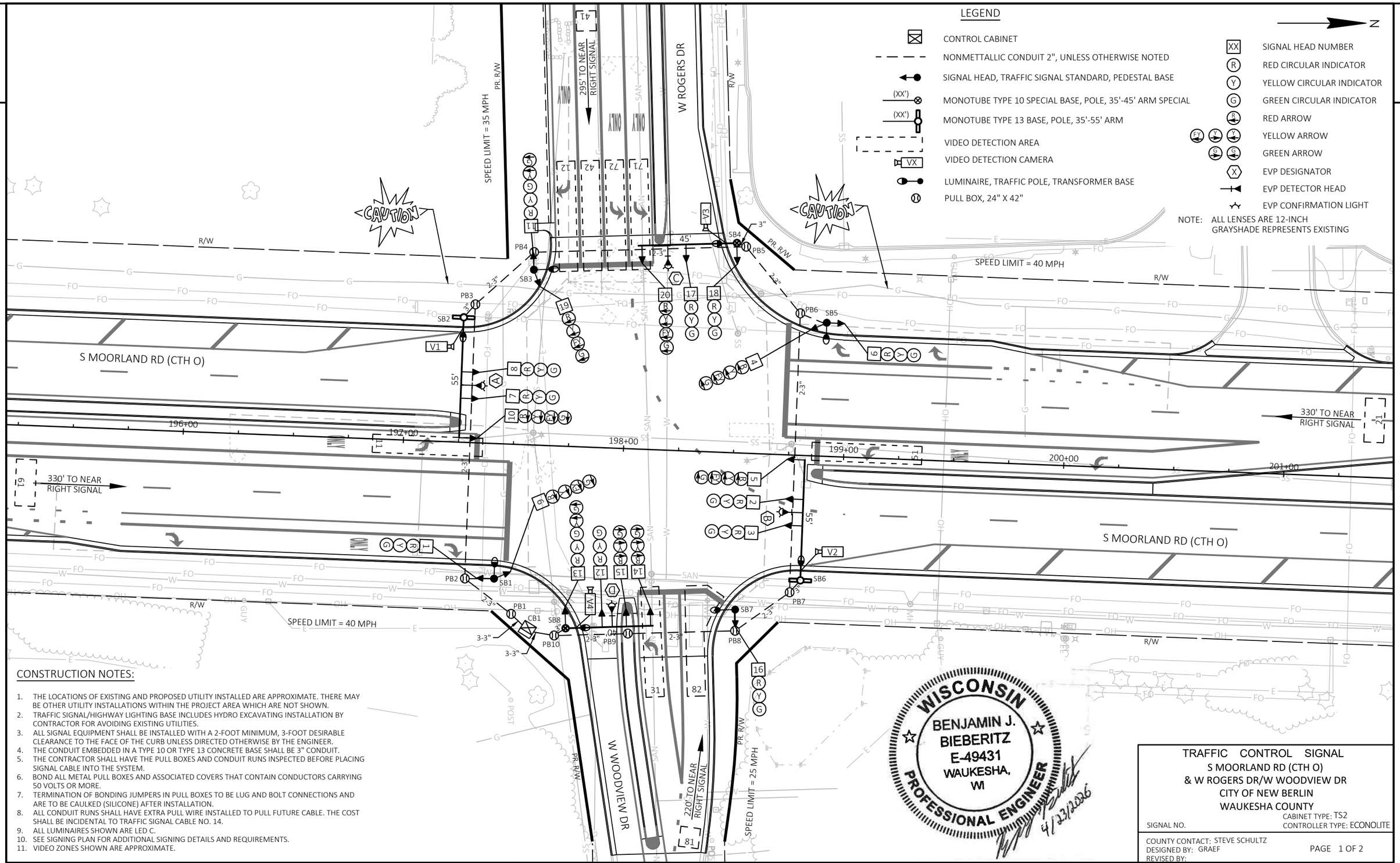
DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED
2. LEFT TURN PHASES SHALL NOT RUN CONCURRENTLY. LEAD 1, LAG 5.
3. DURING CONSTRUCTION PRE-STAGE, OMIT PHASES 7 AND OL D.
   DURING CONSTRUCTION STAGE 1A, OMIT PHASES 5, 7, OL C, AND OL D.
   DURING CONSTRUCTION STAGE 1B, OMIT PHASES 1, 4, 7, OL A, AND OL D.
   DURING CONSTRUCTION STAGE 2A, OMIT PHASES 5, 7, 8, OL C, AND OL D.

S MOORLAND RD (CTH O) & W ROGERS DR/W WOODVIEW DR
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO: CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP
DATE: 5/2026 PAGE NO. 6 OF 6



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLED ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2. TRAFFIC SIGNAL/HIGHWAY LIGHTING BASE INCLUDES HYDRO EXCAVATING INSTALLATION BY CONTRACTOR FOR AVOIDING EXISTING UTILITIES.
3. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A 2-FOOT MINIMUM, 3-FOOT DESIRABLE CLEARANCE TO THE FACE OF THE CURB UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
4. THE CONDUIT EMBEDDED IN A TYPE 10 OR TYPE 13 CONCRETE BASE SHALL BE 3" CONDUIT.
5. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO THE SYSTEM.
6. BOND ALL METAL PULL BOXES AND ASSOCIATED COVERS THAT CONTAIN CONDUCTORS CARRYING 50 VOLTS OR MORE.
7. TERMINATION OF BONDING JUMPERS IN PULL BOXES TO BE LUG AND BOLT CONNECTIONS AND ARE TO BE CAULKED (SILICONE) AFTER INSTALLATION.
8. ALL CONDUIT RUNS SHALL HAVE EXTRA PULL WIRE INSTALLED TO PULL FUTURE CABLE. THE COST SHALL BE INCIDENTAL TO TRAFFIC SIGNAL CABLE NO. 14.
9. ALL LUMINAIRES SHOWN ARE LED C.
10. SEE SIGNING PLAN FOR ADDITIONAL SIGNING DETAILS AND REQUIREMENTS.
11. VIDEO ZONES SHOWN ARE APPROXIMATE.

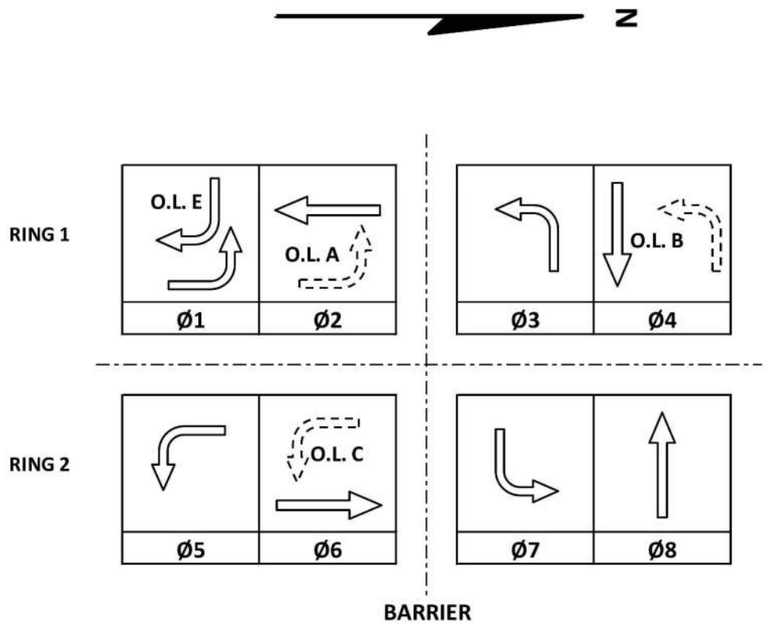
WISCONSIN
BENJAMIN J. BIEBERITZ
E-49431
WAUKESHA, WI
PROFESSIONAL ENGINEER
4/23/2026

TRAFFIC CONTROL SIGNAL
S MOORLAND RD (CTH O)
& W ROGERS DR/W WOODVIEW DR
CITY OF NEW BERLIN
WAUKESHA COUNTY
SIGNAL NO.
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:
PAGE 1 OF 2

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 208	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\03_ROGERS-WOODVIEW\024201-SP3.DWG
LAYOUT NAME - 024201-sp
PLOT DATE : 4/23/2026 1:15 PM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5	-
Ø2	7,8	R
Ø3	19,20	-
Ø4	11,12,13	R
Ø5	9,10	-
Ø6	2,3	R
Ø7	14,15	R ←
Ø8	17,18	R
OLA	4,5	R ←
OLB	19,20	R ←
OLC	9,10	R ←
OLE	11,13	R



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	8+3	4+7

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*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

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	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	41	51	71	81		
CALLED PHASE	1	2	4	5	7	8		
CALL OPTION	X			X	X			
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME	X		X	X	X	X		
USE ADDED INITIAL		X						
CROSS SWITCH PHASE	2			6	8			

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	31	42	61	72	82		
CALLED PHASE	1	3	4	6	7	8		
CALL OPTION		X	X	X	X	X		
DELAY TIME	X							
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME	X	X		X	X			
USE ADDED INITIAL								
CROSS SWITCH PHASE					8			

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED

S MOORLAND RD (CTH O) & W ROGERS DR/W WOODVIEW DR
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO: CABINET TYPE: TS2
CONTROLLER TYPE: ECON
DATE: 5/2026 PAGE NO. 2 OF 2

PROJECT ID:	2772-04-71
INTERSECTION:	CTH O & ROGERS 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 BUTTON	PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK		
SB1	12												
		1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB2	12												
		7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB3	12												
		11	RED	ORG	GRN		WHT/BLK	BLU					
		19				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB4	12												
		17	RED	ORG	GRN								
		18	RED	ORG	GRN								
		20				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB5	12												
		4				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		6	RED	ORG	GRN								
SB6	12												
		2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB7	12												
		16	RED	ORG	GRN								
SB8	12												
		12	RED	ORG	GRN								
		13	RED	ORG	GRN		WHT/BLK	BLU					
		14				RED/BLK	ORG/BLK	GRN/BLK					
		15				RED/BLK	ORG/BLK	GRN/BLK					

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

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB2	SB1
PB3	SB2
PB4	SB3
PB5	SB4
PB6	SB5
PB7	SB6
PB8	SB7
PB9	SB8
PB10	SB8

LIGHTING UF 10 AWG W/ GROUND	
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
CB1	SB8
SB8	SB7
SB7	SB6
SB6	SB5

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	HEAD A (SB2)
CB1	HEAD B (SB6)
CB1	HEAD C (SB4)
CB1	HEAD D (SB8)

NOTES:
*USE WHITE CONDUCTOR IN THE SIGNAL CABLE 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.
*RECONNECT THE GROUNDING CONDUCTORS WHENEVER THE CIRCUIT HAS BEEN INTERRUPTED TO ENSURE THE GROUNDING CIRCUIT IS COMPLETE.

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- (XX) MONOTUBE BASE, POLE SPECIAL, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- PEDESTRIAN HEAD WITH ACCESSIBLE PEDESTRIAN PUSH BUTTON
- LED-C LUMINAIRE, SINGLE MEMBER ARM
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA
- PULL BOX, 24" X 42"

LEGEND - CONTINUED

- 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" W/ COUNTDOWN TIMER
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- V COMMUNICATIONS VAULT

ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

W BROOK DR
W RIDGE RD
R/W
CTH O (S MOORLAND RD)
SPEED LIMIT = 40 MPH
200' TO STOP BAR
50'
2-3"
504+00 'R'
505+00 'R'
220+00 'O'
221+00 'O'
222+00 'O'
224+00 'O'
225+00 'O'
DONE BY OTHERS
I/C PB221

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9
SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10
CB1
V1 V2 V3 V4

A
B

CONSTRUCTION NOTES:

1. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
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. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
4. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL HAVE THE PULLBOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING THE SIGNAL CABLE INTO THE SYSTEM. CONTACT WAUKESHA COUNTY TO MAKE ARRANGEMENTS.
6. TRAFFIC SIGNAL/HIGHWAY LIGHTING BASE ITEMS INCLUDE HYDRO EXCAVATING INSTALLATION BY CONTRACTOR IF REQUIRED TO AVOID EXISTING UTILITIES.
7. INSTALL R10-50L SIGNS ON POLES SB6 AND SB10, AND ON ARM OF SB9 BETWEEN THROUGH AND LEFT TURN SIGNAL HEADS.
8. INSTALL FOLDING STOP SIGN R1-1, 30"X30", ON SB2, SB5, SB6, SB8, SB9, AND SB10.

WISCONSIN
DERRIN WOLFORD
45089-6
SUSSEX, WI
PROFESSIONAL ENGINEER

SCALE, FEET 0 20 40

TRAFFIC CONTROL SIGNAL
CTH O (S MOORLAND RD) & W RIDGE RD/W BROOK DR
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.
CABINET TYPE: TS2-T2
CONTROLLER TYPE: ECONOLITE

COUNTY CONTACT: BRETT WALLACE
DESIGNED BY: TADI
REVISED BY:

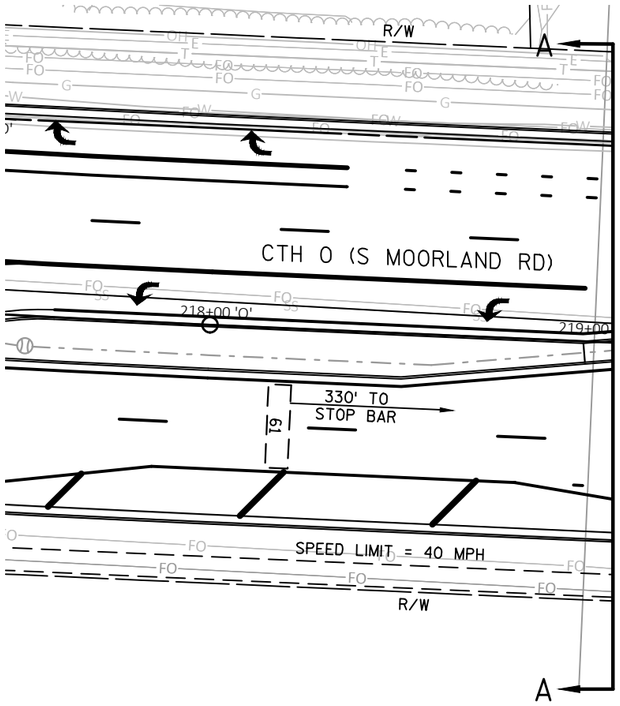
PAGE 1 OF 3

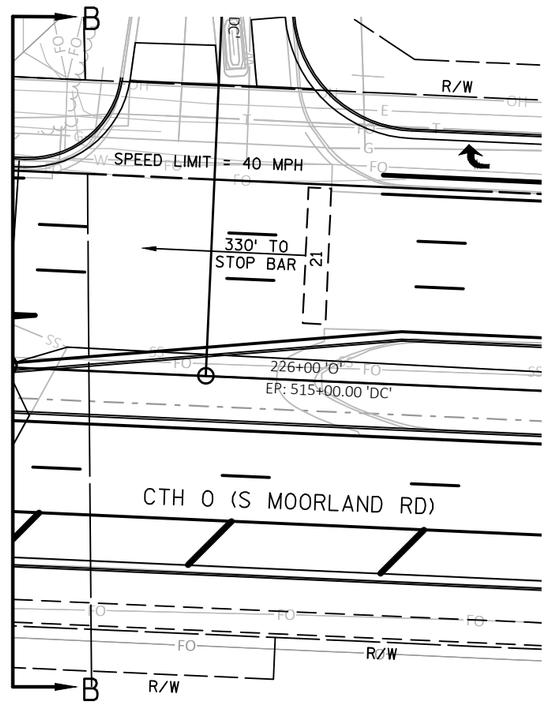
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 211	E

FILE NAME : Z:\SHARED\WI\3305 MOORLAND AT RIDGE-BROOK\CAD\MOORLAND AT RIDGE SIGNALS.DWG
PLOT DATE : 6/3/2026 11:00 AM
PLOT BY : DERRIN WOLFORD
PLOT NAME :

2

N





SCALE, FEET 0 20 40

TRAFFIC CONTROL SIGNAL
CTH O (S MOORLAND RD) & W RIDGE RD/W BROOK DR
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO.

COUNTY CONTACT: BRETT WALLACE
DESIGNED BY: TADI
REVISED BY:

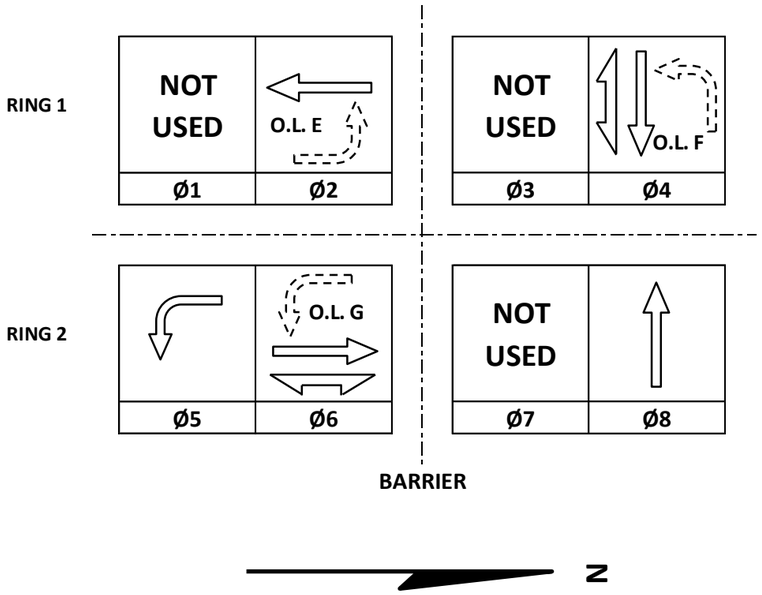
PAGE 2 OF 3

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 212	E

FILE NAME : Z:\SHARED\WI\3305 MOORLAND AT RIDGE-BROOK\CAD\MOORLAND AT RIDGE SIGNALS.DWG PLOT DATE : 6/3/2026 11:01 AM PLOT BY : DERRIN WOLFORD PLOT NAME :

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1		
Ø2	7,8,9,10	R
Ø3		
Ø4	14,15,16	R
Ø5	11,12,13	R ←
Ø6	1,2,3	R
Ø7		
Ø8	17,18,19	R
Ø2P		
Ø4P	22,23	
Ø6P	24,25	
Ø8P		
OLE	4,5,6	-
OLF	20,21	-
OLG	11,12,13	-
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
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+2	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+2, 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	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	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	21	23	51	62	82			
CALLED PHASE	2	2	5	6	8			
CALL OPTION	X	X	X	X	X			
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL	X			X				
CROSS SWITCH PHASE			6					

49	51	53	55	57	59	61	63	DETECTOR INPUT
	APS6							PLAN LOOP DETECTOR*(S)
	10							CALLED PHASE
								CALL OPTION
								DELAY TIME
								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	41	61	81				
CALLED PHASE	2	4	6	8				
CALL OPTION	X	X	X	X				
DELAY TIME		X		X				
EXTENTION OPTION	X	X	X	X				
EXTEND TIME								
USE ADDED INITIAL	X		X					
CROSS SWITCH PHASE								

50	52	54	56	58	60	62	64	DETECTOR INPUT
APS4								PLAN LOOP DETECTOR*(S)
10								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

CTH O (S MOORLAND RD) & W RIDGE RD/W BROOK DR
CITY OF NEW BERLIN
WAUKESHA COUNTY

SIGNAL NO: CABINET TYPE: TS2-T2
CONTROLLER TYPE: ECONOLITE
DATE: 6/26 PAGE NUMBER: 3 OF 3

PROJECT ID:	2722-04-71
INTERSECTION:	CTH O (S MOORLAND RD) & W RIDGE RD/W BROOK DR

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

CB1 TO	JUMPER	# OF COND. AWG 14	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON 1	PED BUTTON 2
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<FL YELLOW>	<GREEN>	D/WALK	WALK		
SB1		7	25								BLK	BLU		
			B										WHT/BLK	GRN
SB2		12	15	RED	ORG	GRN								
			17	RED/BLK	ORG/BLK	GRN/BLK								
SB3		7	16	RED	ORG	GRN								
			24								BLK	BLU		
SB4		7	B										WHT/BLK	GRN
SB5		15	1	RED	ORG	GRN								
			12				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
			23								BLK	BLU		
			B										WHT/BLK	BLU/BLK
SB6		15	4				RED	ORG	BLK/WHT					
			8	RED/BLK	ORG/BLK	GRN/BLK								
			9	RED/BLK	ORG/BLK	GRN/BLK								
			10	RED/BLK	ORG/BLK	GRN/BLK								
			13				RED/WHT	BLU/BLK	BLU/WHT	GRN/WHT				
SB7		7	22								BLK	BLU		
			B										WHT/BLK	GRN
SB8		12	14	RED	ORG	GRN								
			20				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
SB9		21	5				RED	ORG	BLK/WHT					
			7	RED/BLK	ORG/BLK	GRN/BLK								
			18	RED/WHT	BLU/BLK	GRN/WHT								
			19	RED/WHT	BLU/BLK	GRN/WHT								
			21				RED/GRN	ORG/GRN	BLU/WHT					
SB10		15	2	RED	ORG	GRN								
			3	RED	ORG	GRN								
			6				RED/BLK	ORG/BLK	BLK/WHT					
			11				RED/WHT	BLU/BLK	BLU/WHT	GRN/WHT				

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

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
SB1	PB1
SB5	PB2
SB6	PB3
SB7	PB4
SB8	PB5
SB9	PB6
SB9	PB7
SB10	PB8
CB1	PB9

LIGHTING UF 12 AWG W/GROUND	
FROM	TO
CB1	SB3
SB3	SB6
CB1	SB10
SB10	SB9

VIDEO DETECTION CABLE	
FROM	TO
CB1	SB6 (V1)
CB1	SB10 (V2)
CB1	SB3 (V3)
CB1	SB9 (V4)

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB6 (HEAD A)
CB1	SB10 (HEAD B)
CB1	SB3 (HEAD C)
CB1	SB9 (HEAD D)

CONFIRMATION BEACON CABLE TRAFFIC SIGNAL 3-14 AWG	
FROM	TO
CB1	SB6 (HEAD A)
CB1	SB10 (HEAD B)
CB1	SB3 (HEAD C)
CB1	SB9 (HEAD D)

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

2

LEGEND

- TRAFFIC SIGNAL CABINET (SEE TRAFFIC SIGNAL PLAN)
- PULL BOX, 24" X 42"
- COMMUNICATION VAULT TYPE 1
- FIBER OPTIC CABLE OUTDOOR PLANT 48-CT SIGNAL INTERCONNECT IN CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH, UNLESS OTHERWISE NOTED

N

S JAMES RD

EX. R/W

R/W

S MOORLAND RD (CTH O)

W CLEVELAND AVE (CTH D)

W GLENDALE DR

EX. I/C PB126
ID 2722-08-71

EX. I/C PB127
ID 2722-08-71

I/C PB202

149+00 150+00 151+00 152+00 153+00 154+00 155+00 156+00 157+00 158+00 159+00 160+00 161+00 162+00 163+00

349+00 350+00 351+00 352+00 353+00 354+00 355+00 356+00 357+00 358+00

EXT. 1

REMOVE OR ABANDON EX. I/C CONDUIT

REMOVE EX. I/C PB128

REMOVE OR ABANDON
EX. I/C CONDUIT

REMOVE EX. I/C VAULT #11

REMOVE OR ABANDON
EX. I/C CONDUIT

PULL BACK EXISTING 48-CT FIBER CABLE TO EX. I/C PB127 FOR POTENTIAL FUTURE REINSTALLATION. PAID FOR AS REMOVE CABLE.

CONSTRUCTION NOTES

1. REMOVALS SHOWN IN BOLD, EXISTING TO REMAIN SHOWN IN GRAY.
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. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

TRAFFIC SIGNAL INTERCONNECT
MOORLAND RD (CTH O)
CITY OF NEW BERLIN
WAUKESHA COUNTY

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL INTERCONNECT REMOVAL PLAN	SHEET 215	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\04_INTERCONNECT\024211_IC.DWG
LAYOUT NAME - 01

PLOT DATE : 4/23/2026 1:16 PM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- PROPOSED TRAFFIC SIGNAL CABINET (SEE TRAFFIC SIGNAL PLAN)
- PULL BOX, 24" X 42"
- COMMUNICATION VAULT TYPE 1
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH WITH TRACER CABLE, UNLESS OTHERWISE NOTED

N

S JAMES RD

S MOORLAND RD (CTH O)

W CLEVELAND AVE (CTH D)

EX. R/W

PR. R/W

EX. I/C PB126
ID 2722-08-71

EX. I/C PB127
ID 2722-08-71

I/C PB201

I/C PB202

I/C PB203

EXT. 1
CONNECT TO AND EXTEND
EXISTING CONDUIT

REINSTALL EXISTING CABLE FROM
EX. I/C PB127 TO I/C VAULT #20.

FO I/C CABLE 48-CT

FO DROP SPLICE (6)
FO SPLICE ENCLOSURE

I/C VAULT #20

FO PIGTAIL 6-CT

CB1

CAUTION

149+00 150+00 151+00 152+00 153+00 154+00 155+00 156+00 157+00 159+00 160+00 161+00 162+00 163+00

349+00 350+00 351+00 352+00 353+00 354+00 355+00 356+00 357+00 358+00

MATCHLINE STA. 163+00

CONSTRUCTION NOTES

1. LEAVE 50-FEET OF FIBER OPTIC INTERCONNECT CABLE COILED IN EACH INTERCONNECT PULLBOX AND 100-FEET COILED IN EACH I/C COMMUNICATIONS VAULT.
2. THE CONTRACTOR SHALL HAVE THE VAULTS AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM.
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. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. MAINLINE SPLICES SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.
6. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTIONS. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
7. TRAFFIC SIGNALS SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC SIGNAL INTERCONNECT
MOORLAND RD (CTH O)
CITY OF NEW BERLIN
WAUKESHA COUNTY

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 216	E

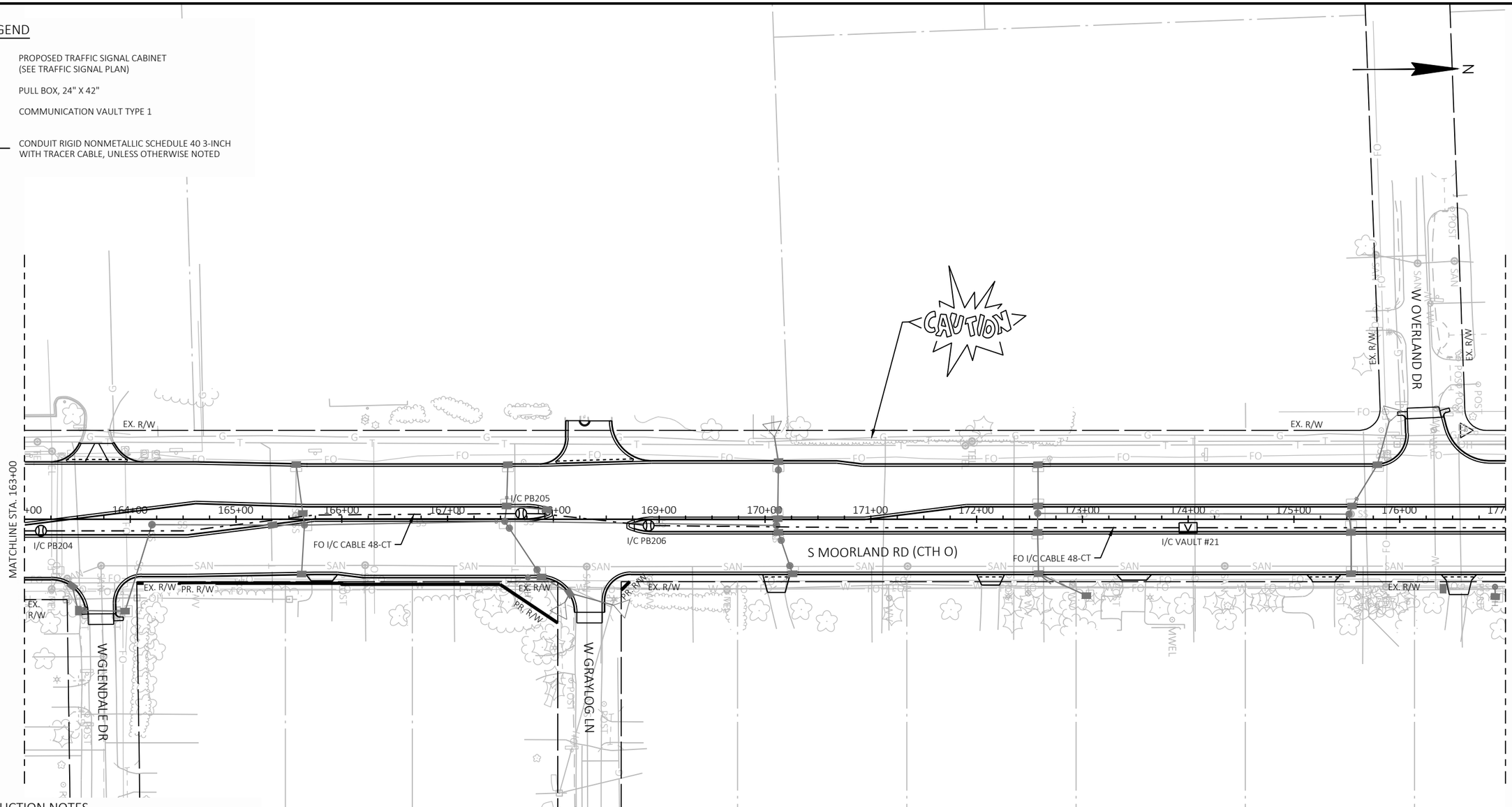
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LAYOUT NAME - 01
PLOT DATE : 4/23/2026 1:16 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

- PROPOSED TRAFFIC SIGNAL CABINET (SEE TRAFFIC SIGNAL PLAN)
- PULL BOX, 24" X 42"
- COMMUNICATION VAULT TYPE 1
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH WITH TRACER CABLE, UNLESS OTHERWISE NOTED



CONSTRUCTION NOTES

1. LEAVE 50-FEET OF FIBER OPTIC INTERCONNECT CABLE COILED IN EACH INTERCONNECT PULLBOX AND 100-FEET COILED IN EACH I/C COMMUNICATIONS VAULT.
2. THE CONTRACTOR SHALL HAVE THE VAULTS AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM.
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. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. MAINLINE SPLICES SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.
6. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTIONS. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
7. TRAFFIC SIGNALS SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC SIGNAL INTERCONNECT
MOORLAND RD (CTH O)
CITY OF NEW BERLIN
WAUKESHA COUNTY

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 217	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\04_INTERCONNECT\024221_IC.DWG
LAYOUT NAME - 02
PLOT DATE : 4/23/2026 1:16 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

- PROPOSED TRAFFIC SIGNAL CABINET (SEE TRAFFIC SIGNAL PLAN)
- PULL BOX, 24" X 42"
- COMMUNICATION VAULT TYPE 1
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH WITH TRACER CABLE, UNLESS OTHERWISE NOTED

N

CAUTION

CAUTION

W LINCOLN AVE

S MOORLAND RD (CTH O)

W SCHNEIDER LN

W LINCOLN AVE

MATCHLINE STA. 177+00

MATCHLINE STA. 191+00

EX. R/W

PR. R/W

FO I/C CABLE 48-CT

I/C PB207

I/C PB208

I/C VAULT #22

FO DROP SPLICE (6)
FO SPLICE ENCLOSURE

I/C PB209

I/C PB210

FO PIGTAIL 6-CT

CB1

177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00

417+00 418+00 419+00 420+00 421+00 422+00 423+00 424+00 425+00 426+00 427+00

CONSTRUCTION NOTES

1. LEAVE 50-FEET OF FIBER OPTIC INTERCONNECT CABLE COILED IN EACH INTERCONNECT PULLBOX AND 100-FEET COILED IN EACH I/C COMMUNICATIONS VAULT.
2. THE CONTRACTOR SHALL HAVE THE VAULTS AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM.
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. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. MAINLINE SPLICES SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.
6. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTIONS. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
7. TRAFFIC SIGNALS SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC SIGNAL INTERCONNECT
MOORLAND RD (CTH O)
CITY OF NEW BERLIN
WAUKESHA COUNTY

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 218	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\04_INTERCONNECT\024221_IC.DWG
LAYOUT NAME - 03

PLOT DATE : 4/23/2026 1:16 PM PLOT BY : BIEBERITZ, BEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- PROPOSED TRAFFIC SIGNAL CABINET (SEE TRAFFIC SIGNAL PLAN)
- PULL BOX, 24" X 42"
- COMMUNICATION VAULT TYPE 1
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH WITH TRACER CABLE, UNLESS OTHERWISE NOTED

N

W ROGERS DR

S MOORLAND RD (CTH O)

S CLUBHOUSE DR

W WOODVIEW DR

CAUTION

CAUTION

EX. R/W

PR. R/W

MATCHLINE STA. 191+00

MATCHLINE STA. 205+00

446+00

447+00

448+00

449+00

192+00

193+00

194+00

195+00

196+00

198+00

199+00

200+00

201+00

202+00

203+00

204+00

I/C VAULT #23

I/C PB211

I/C PB212

I/C PB213

I/C PB214

FO I/C CABLE 48-CT

FO DROP SPLICE (6)
FO SPLICE ENCLOSURE

FO PIGTAIL 6-CT

CB1

CONSTRUCTION NOTES

1. LEAVE 50-FEET OF FIBER OPTIC INTERCONNECT CABLE COILED IN EACH INTERCONNECT PULLBOX AND 100-FEET COILED IN EACH I/C COMMUNICATIONS VAULT.
2. THE CONTRACTOR SHALL HAVE THE VAULTS AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM.
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. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. MAINLINE SPLICES SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.
6. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTIONS. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
7. TRAFFIC SIGNALS SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC SIGNAL INTERCONNECT
MOORLAND RD (CTH O)
CITY OF NEW BERLIN
WAUKESHA COUNTY

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 219 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\04_INTERCONNECT\024221_IC.DWG
LAYOUT NAME - 04
PLOT DATE : 4/23/2026 1:17 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

- PROPOSED TRAFFIC SIGNAL CABINET (SEE TRAFFIC SIGNAL PLAN)
- PULL BOX, 24" X 42"
- COMMUNICATION VAULT TYPE 1
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH WITH TRACER CABLE, UNLESS OTHERWISE NOTED



CONSTRUCTION NOTES

1. LEAVE 50-FEET OF FIBER OPTIC INTERCONNECT CABLE COILED IN EACH INTERCONNECT PULLBOX AND 100-FEET COILED IN EACH I/C COMMUNICATIONS VAULT.
2. THE CONTRACTOR SHALL HAVE THE VAULTS AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM.
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. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
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7. TRAFFIC SIGNALS SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC SIGNAL INTERCONNECT
MOORLAND RD (CTH O)
CITY OF NEW BERLIN
WAUKESHA COUNTY

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 220	E

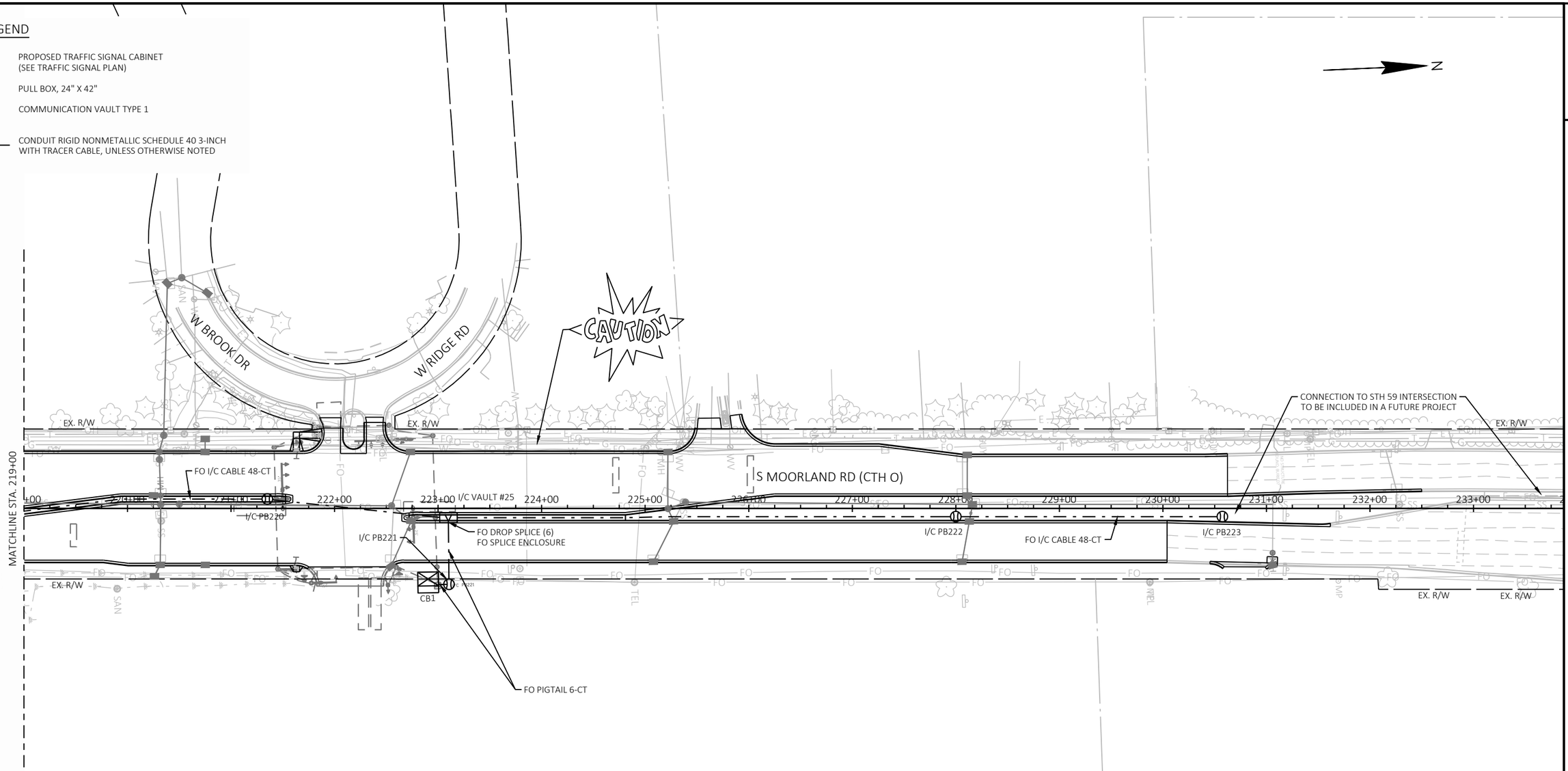
FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\04_INTERCONNECT\024221_IC.DWG
LAYOUT NAME - 05
PLOT DATE : 4/23/2026 1:17 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- PROPOSED TRAFFIC SIGNAL CABINET (SEE TRAFFIC SIGNAL PLAN)
- PULL BOX, 24" X 42"
- COMMUNICATION VAULT TYPE 1
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH WITH TRACER CABLE, UNLESS OTHERWISE NOTED



CONSTRUCTION NOTES

1. LEAVE 50-FEET OF FIBER OPTIC INTERCONNECT CABLE COILED IN EACH INTERCONNECT PULLBOX AND 100-FEET COILED IN EACH I/C COMMUNICATIONS VAULT.
2. THE CONTRACTOR SHALL HAVE THE VAULTS AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM.
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. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
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6. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTIONS. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
7. TRAFFIC SIGNALS SHOWN GRAYSHADED FOR PLAN CLARITY.

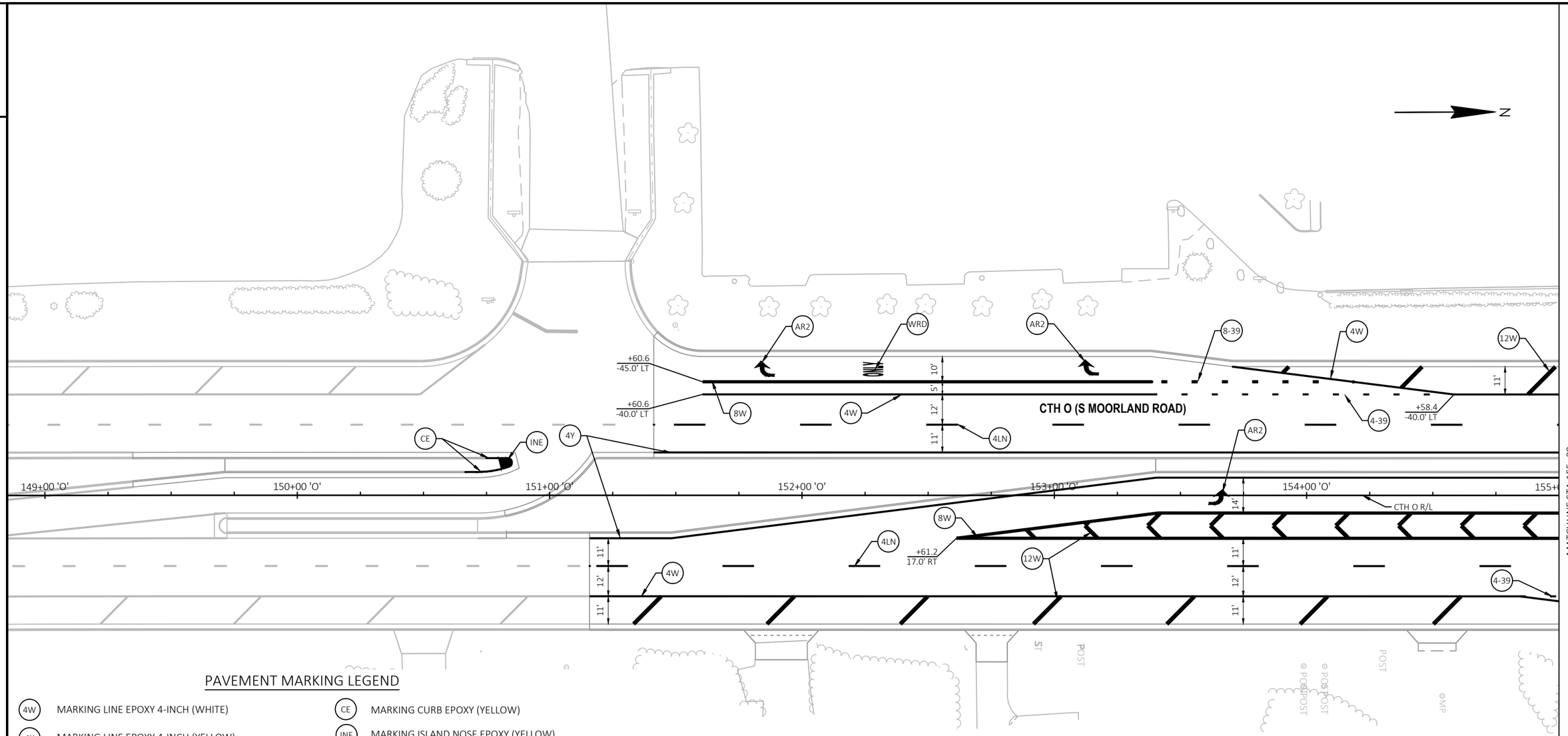
TRAFFIC SIGNAL INTERCONNECT
MOORLAND RD (CTH O)
CITY OF NEW BERLIN
WAUKESHA COUNTY

COUNTY CONTACT: STEVE SCHULTZ
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2772-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 221	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\04_INTERCONNECT\024221_IC.DWG
LAYOUT NAME - 06
PLOT DATE : 4/23/2026 1:17 PM
PLOT BY : BIEBERITZ, BEN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

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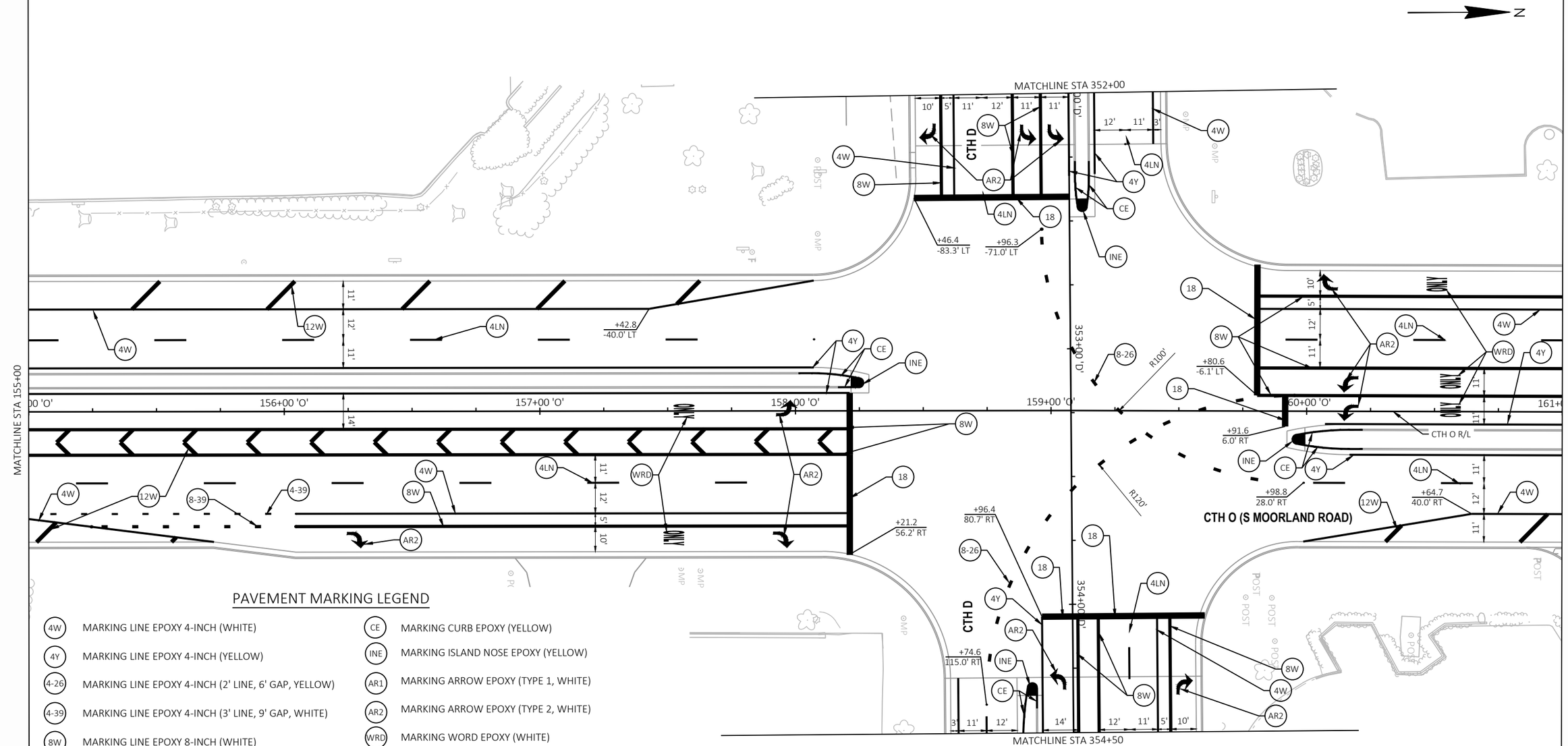
PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)
CE	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
WRD	MARKING WORD EPOXY (WHITE)
X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
3. PLACEMENT OF RAILROAD MARKINGS SHALL BE IN ACCORDANCE WITH SDD "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS".

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 222	E

2



PAVEMENT MARKING LEGEND

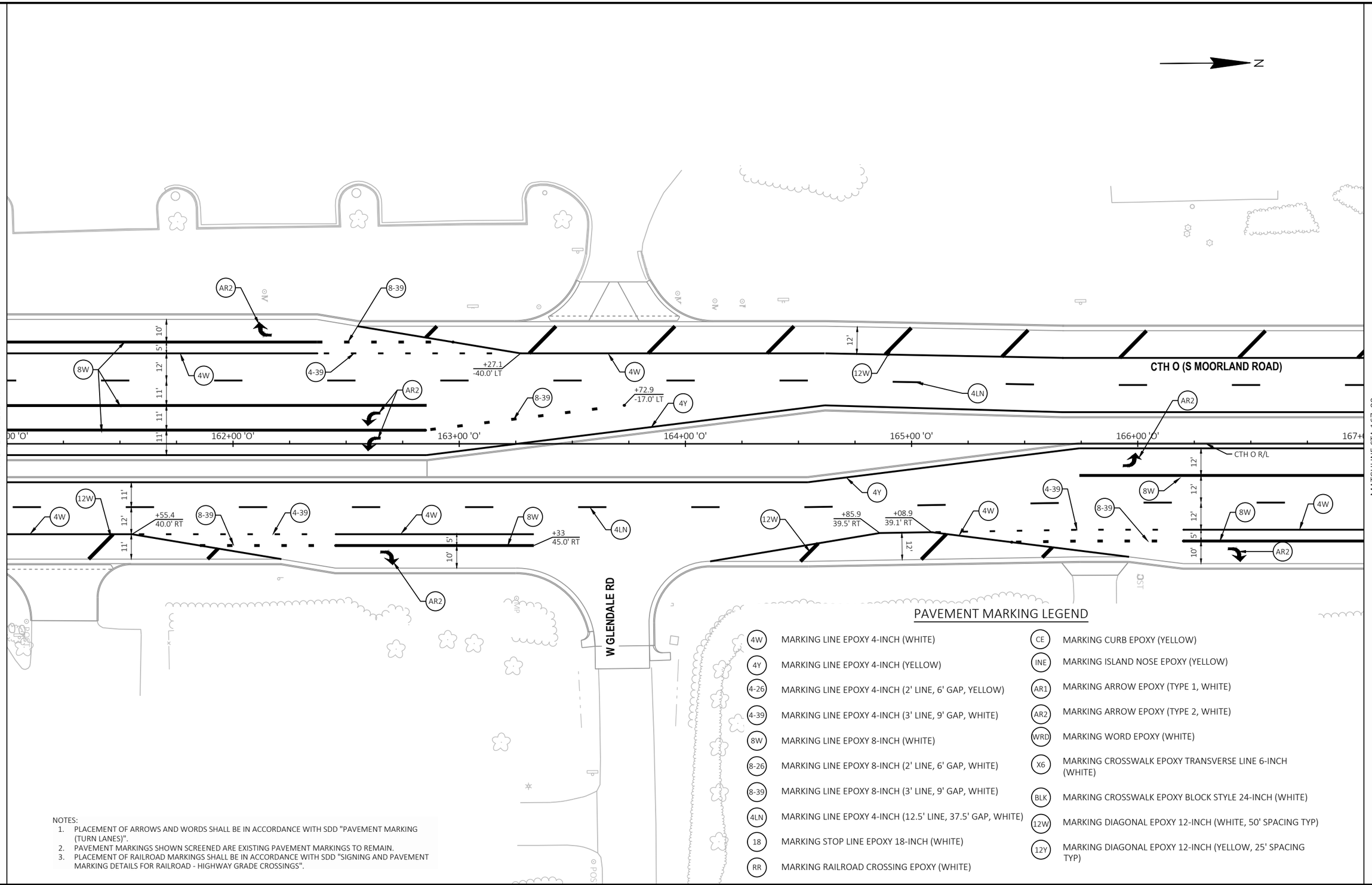
4W	MARKING LINE EPOXY 4-INCH (WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)
CE	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
WRD	MARKING WORD EPOXY (WHITE)
X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
3. PLACEMENT OF RAILROAD MARKINGS SHALL BE IN ACCORDANCE WITH SDD "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS".

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 223	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\024501-PM.DWG
LAYOUT NAME - 02
PLOT DATE : 4/28/2026 11:24 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
3. PLACEMENT OF RAILROAD MARKINGS SHALL BE IN ACCORDANCE WITH SDD "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS".

PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)	CE	MARKING CURB EPOXY (YELLOW)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)	INE	MARKING ISLAND NOSE EPOXY (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)	AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)	AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)	WRD	MARKING WORD EPOXY (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)	X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)	BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)	12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)	12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)		

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 224	E

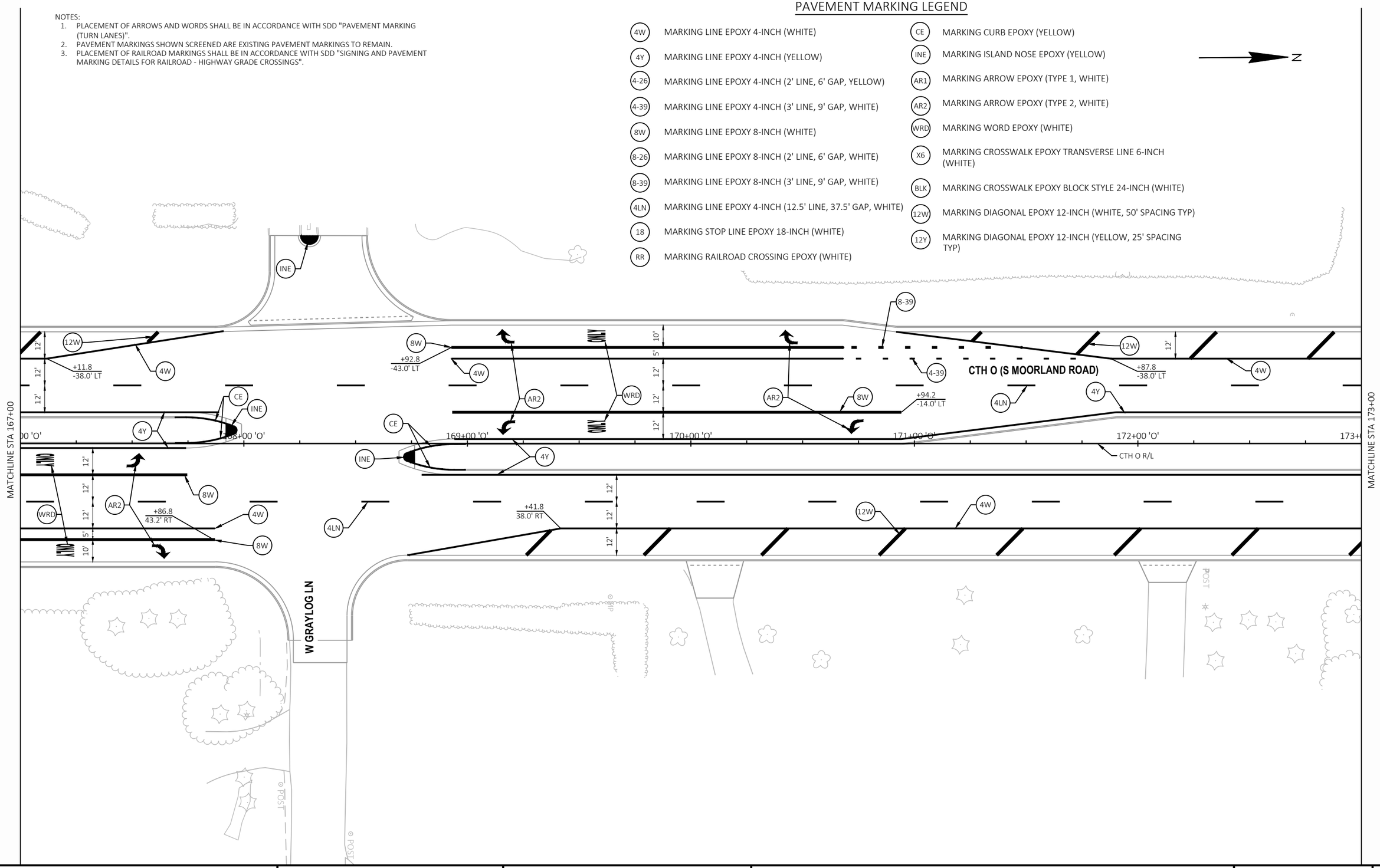
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\024501-PM.DWG
LAYOUT NAME - 03
PLOT DATE : 4/28/2026 11:24 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
3. PLACEMENT OF RAILROAD MARKINGS SHALL BE IN ACCORDANCE WITH SDD "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS".

PAVEMENT MARKING LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4-26 — MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
- 4-39 — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 8W — MARKING LINE EPOXY 8-INCH (WHITE)
- 8-26 — MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
- 8-39 — MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
- 4LN — MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 18 — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- RR — MARKING RAILROAD CROSSING EPOXY (WHITE)
- CE — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- AR1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- AR2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- WRD — MARKING WORD EPOXY (WHITE)
- X6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- BLK — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- 12W — MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
- 12Y — MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 225	E

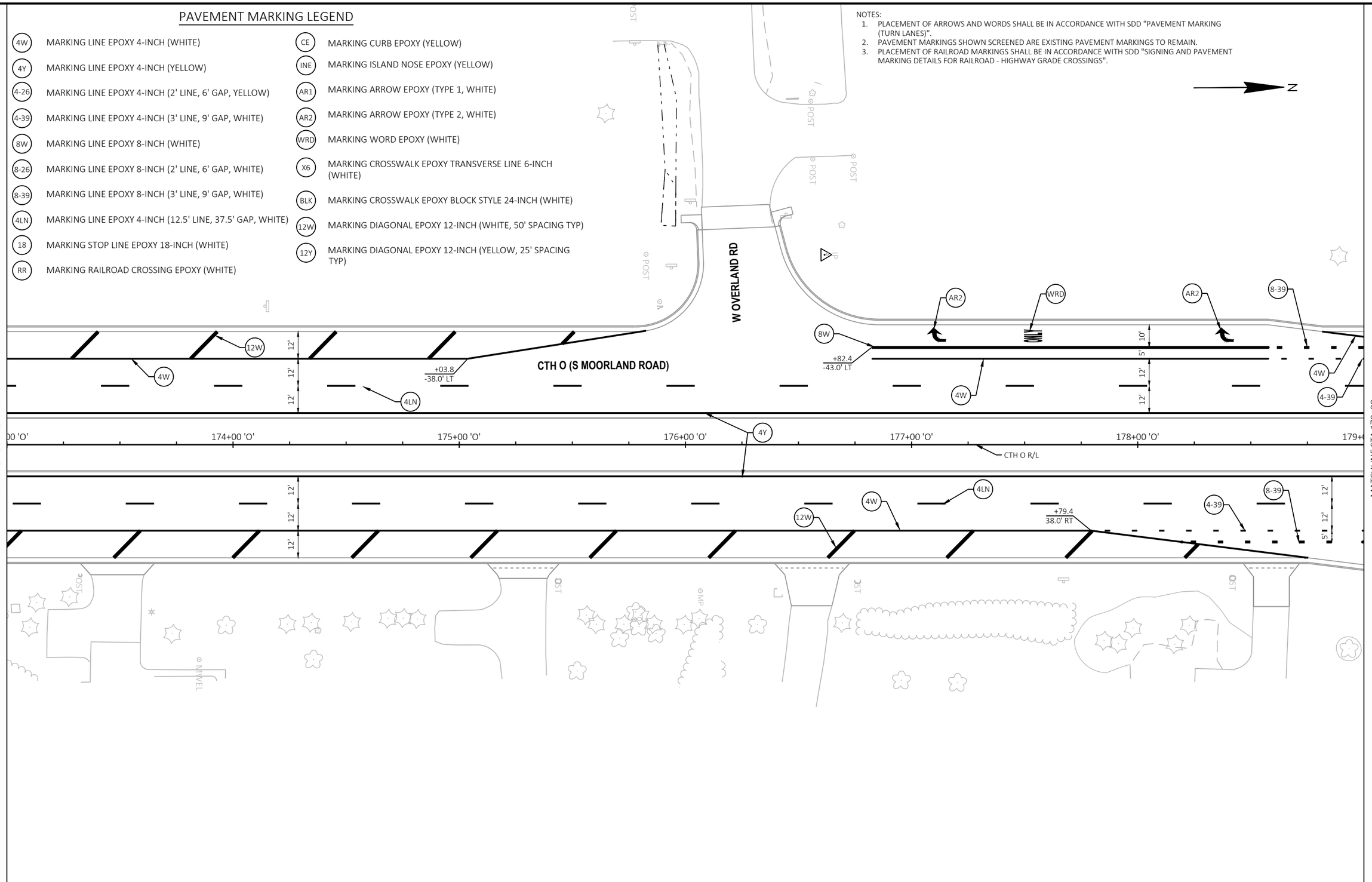
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\024501-PM.DWG
LAYOUT NAME - 04
PLOT DATE : 4/28/2026 11:25 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

PAVEMENT MARKING LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4-26 — MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
- 4-39 — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 8W — MARKING LINE EPOXY 8-INCH (WHITE)
- 8-26 — MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
- 8-39 — MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
- 4LN — MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 18 — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- RR — MARKING RAILROAD CROSSING EPOXY (WHITE)
- CE — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
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- WRD — MARKING WORD EPOXY (WHITE)
- X6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- BLK — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- 12W — MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
- 12Y — MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 226	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\024501-PM.DWG
LAYOUT NAME - 05

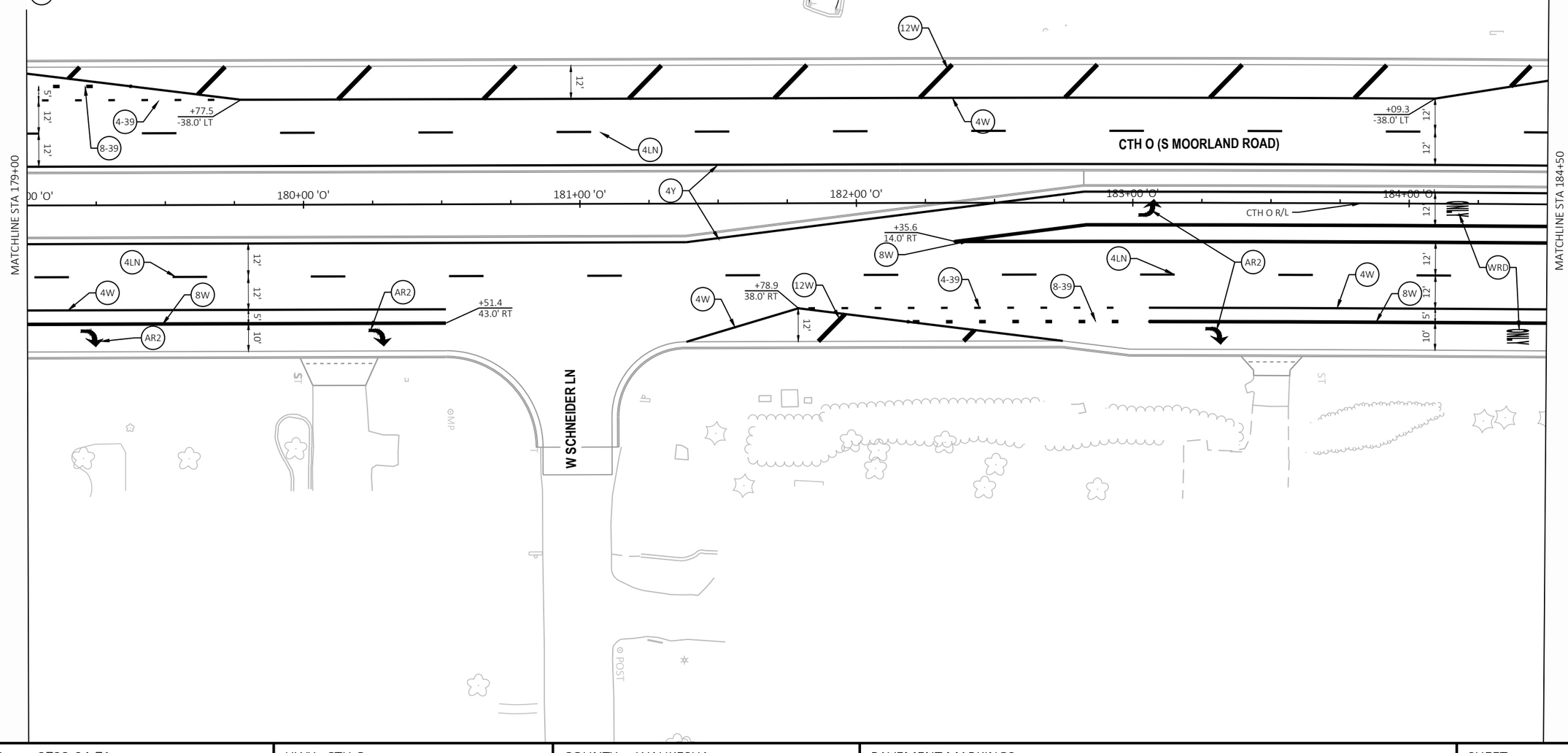
PLOT DATE : 4/28/2026 11:25 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

PAVEMENT MARKING LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4-26 — MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
- 4-39 — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 8W — MARKING LINE EPOXY 8-INCH (WHITE)
- 8-26 — MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
- 8-39 — MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
- 4LN — MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 18 — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- RR — MARKING RAILROAD CROSSING EPOXY (WHITE)
- CE — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- AR1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- AR2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- WRD — MARKING WORD EPOXY (WHITE)
- X6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- BLK — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- 12W — MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
- 12Y — MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

NOTES:
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 227	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\024501-PM.DWG
LAYOUT NAME - 06
PLOT DATE : 4/28/2026 11:25 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4-26 — MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
- 4-39 — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 8W — MARKING LINE EPOXY 8-INCH (WHITE)
- 8-26 — MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
- 8-39 — MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
- 4LN — MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 18 — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- RR — MARKING RAILROAD CROSSING EPOXY (WHITE)
- CE — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- AR1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- AR2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- WRD — MARKING WORD EPOXY (WHITE)
- X6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- BLK — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- 12W — MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
- 12Y — MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

N

MATCHLINE STA 420+00

W LINCOLN AVE

421+00

422+00

423+00

CTH O (S MOORLAND ROAD)

CTH O R/L

LI R/L

R100'

MATCHLINE STA 184+50

MATCHLINE STA 190+50

MATCHLINE STA 423+50

185+00 'O'

186+00 'O'

187+00 'O'

188+00 'O'

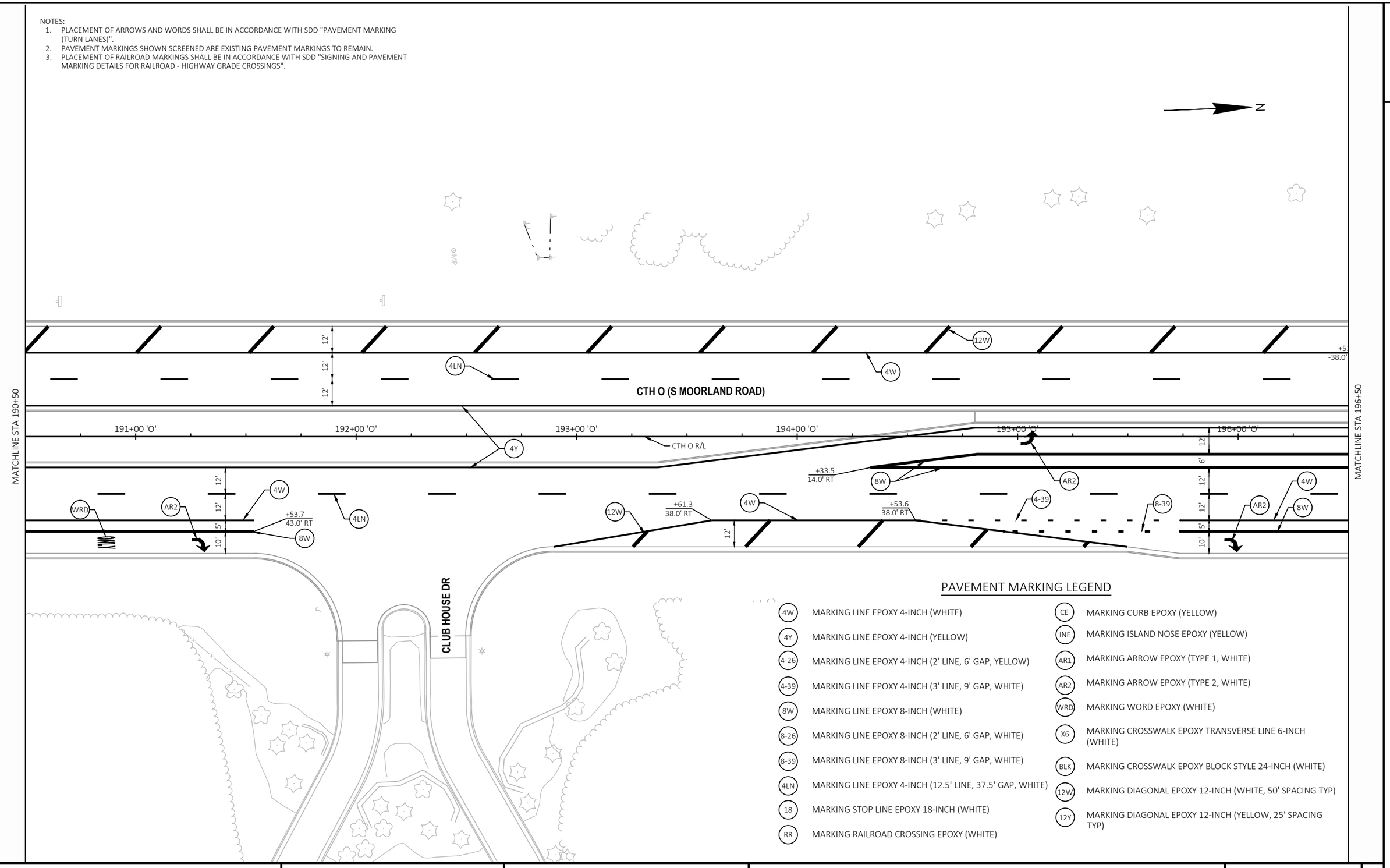
189+00 'O'

190+00 'O'

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
3. PLACEMENT OF RAILROAD MARKINGS SHALL BE IN ACCORDANCE WITH SDD "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS".

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 228	E

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
3. PLACEMENT OF RAILROAD MARKINGS SHALL BE IN ACCORDANCE WITH SDD "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS".



PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)	CE	MARKING CURB EPOXY (YELLOW)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)	INE	MARKING ISLAND NOSE EPOXY (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)	AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)	AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)	WRD	MARKING WORD EPOXY (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)	X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)	BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)	12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)	12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)		

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 229	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\024501-PM.DWG
LAYOUT NAME - 08
PLOT DATE : 4/28/2026 11:26 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4-26 — MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
- 4-39 — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 8W — MARKING LINE EPOXY 8-INCH (WHITE)
- 8-26 — MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
- 8-39 — MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
- 4LN — MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 18 — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- RR — MARKING RAILROAD CROSSING EPOXY (WHITE)
- CE — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- AR1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- AR2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- WRD — MARKING WORD EPOXY (WHITE)
- X6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- BLK — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- 12W — MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
- 12Y — MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

N

MATCHLINE STA 448+25

W ROGERS DR

448+00 NW

CTH O (S MOORLAND ROAD)

CTH O R/L

RG R/L

WV R/L

WOODVIEW DR

448+00 WV

MATCHLINE STA 196+50

MATCHLINE STA 202+50

MATCHLINE STA 451+75

197+00 'O'

198+00 'O'

199+00 'O'

200+00 'O'

201+00 'O'

202+00 'O'

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
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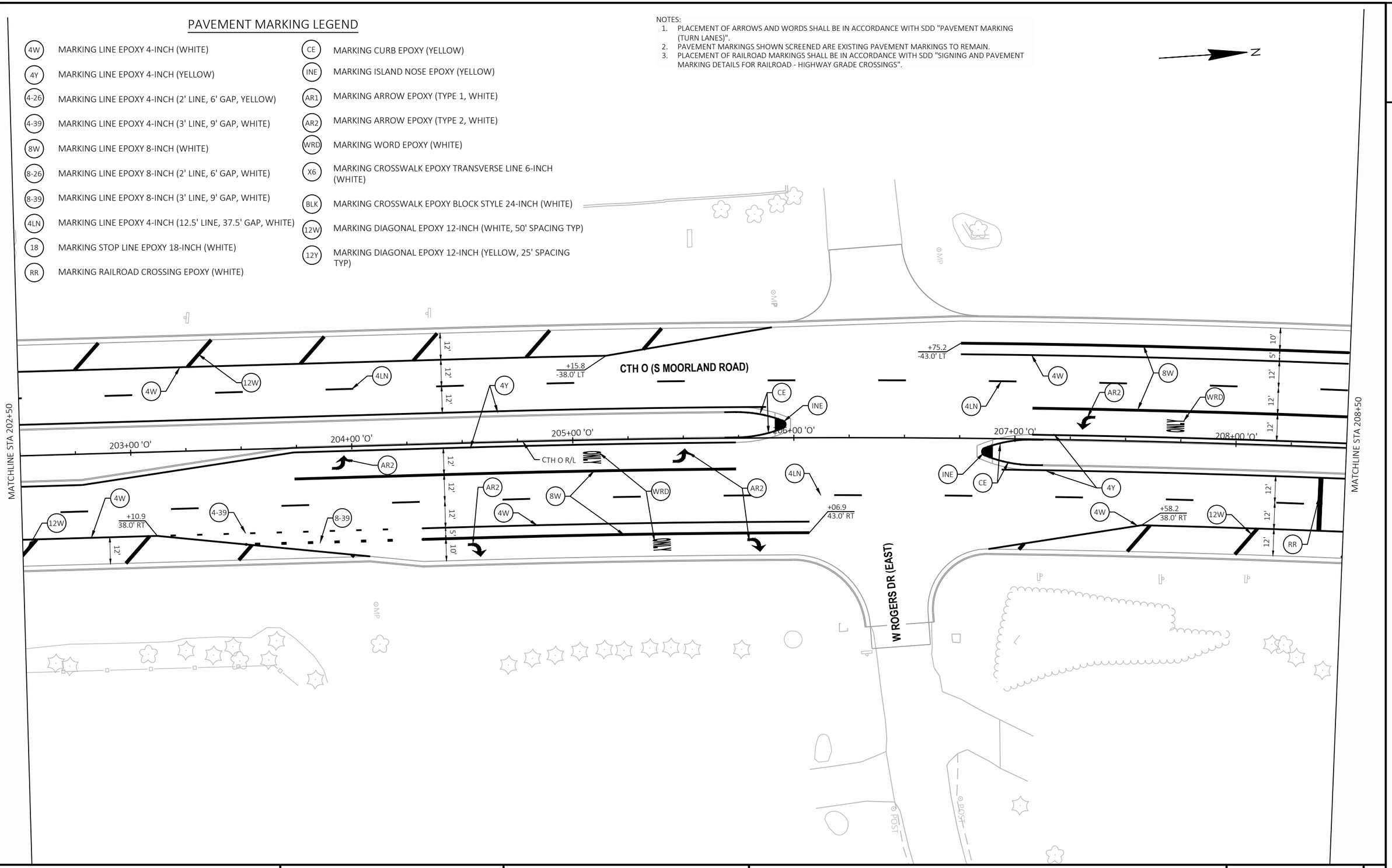
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 230	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\024501-PM.DWG
LAYOUT NAME - 09
PLOT DATE : 4/28/2026 11:27 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

PAVEMENT MARKING LEGEND

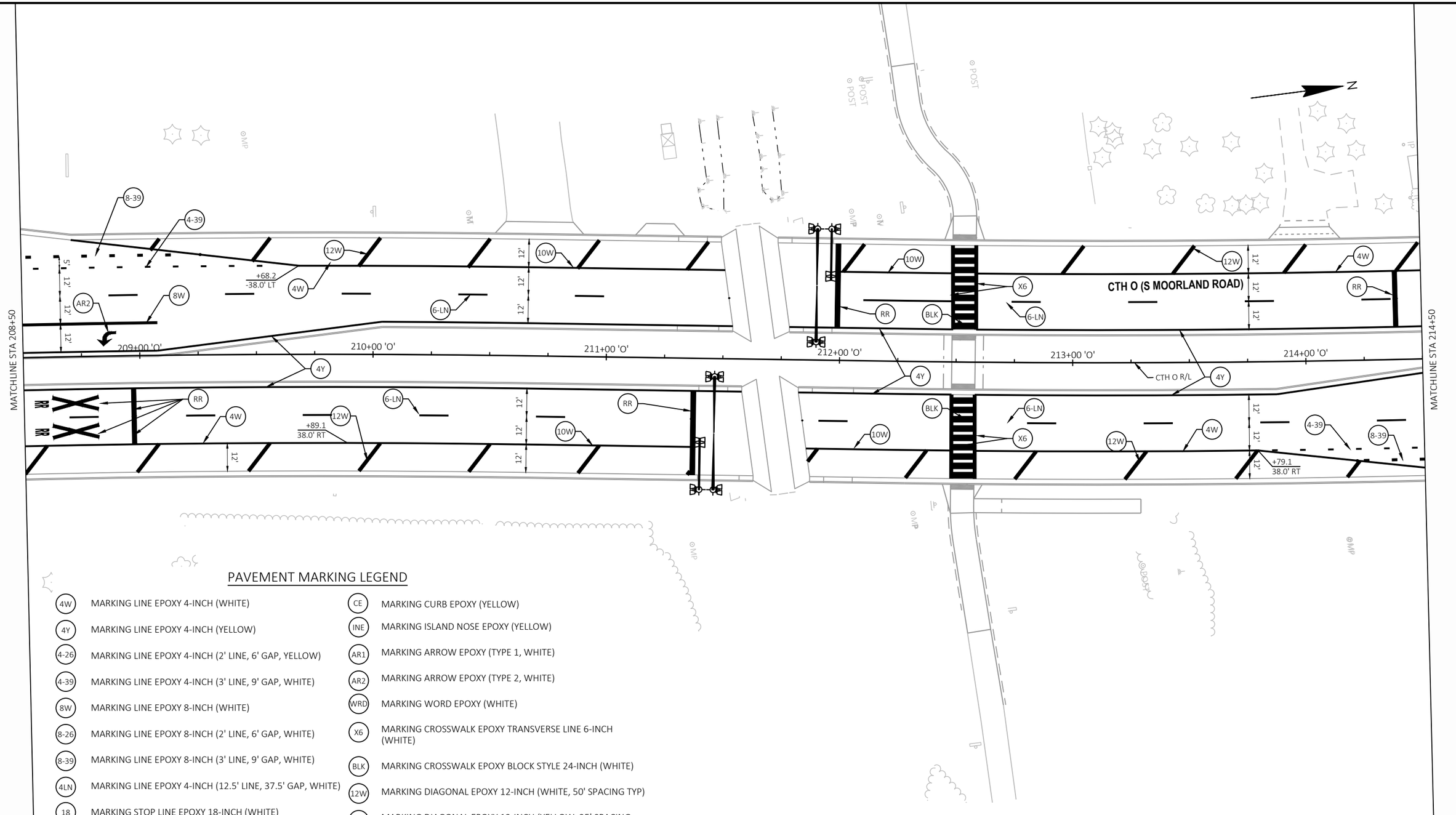
4W	MARKING LINE EPOXY 4-INCH (WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)
CE	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
WRD	MARKING WORD EPOXY (WHITE)
X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 231 E

2



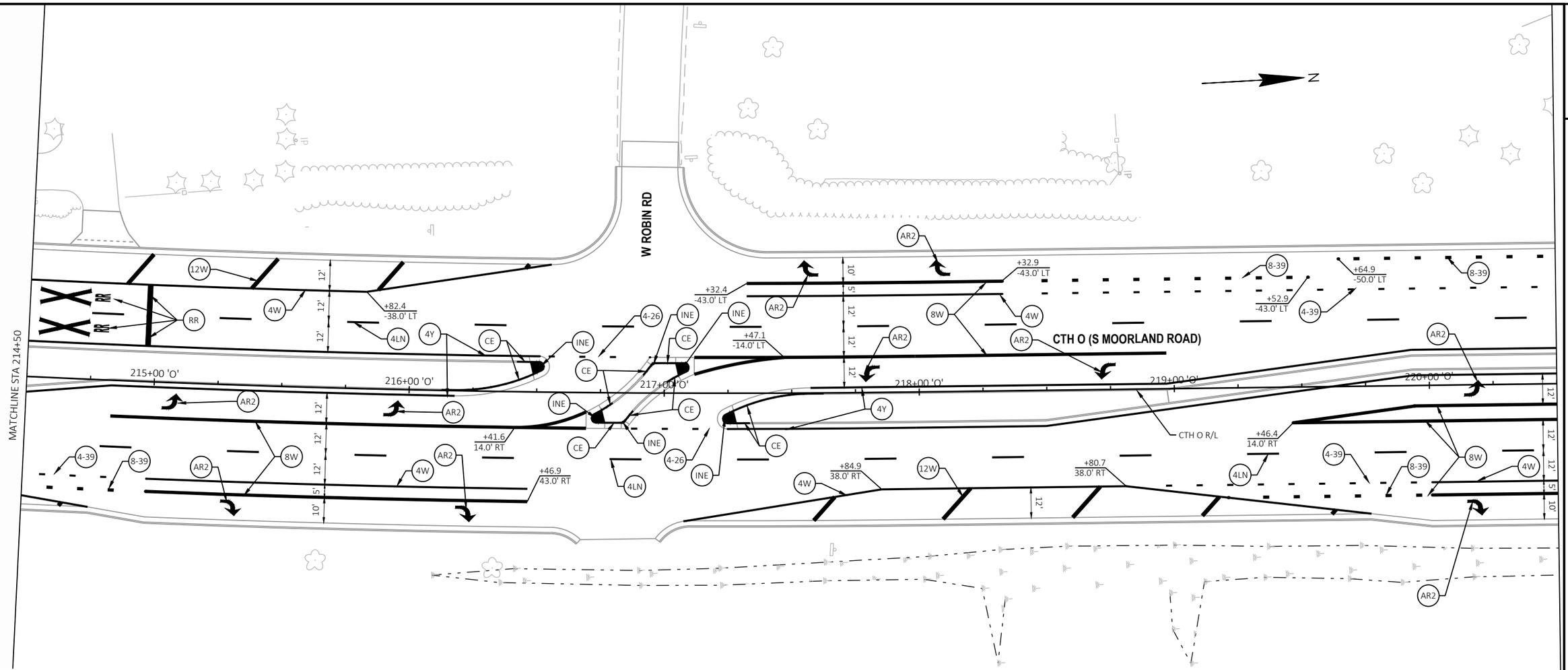
PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)
CE	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
WRD	MARKING WORD EPOXY (WHITE)
X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
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NOTES:
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 232	E

2

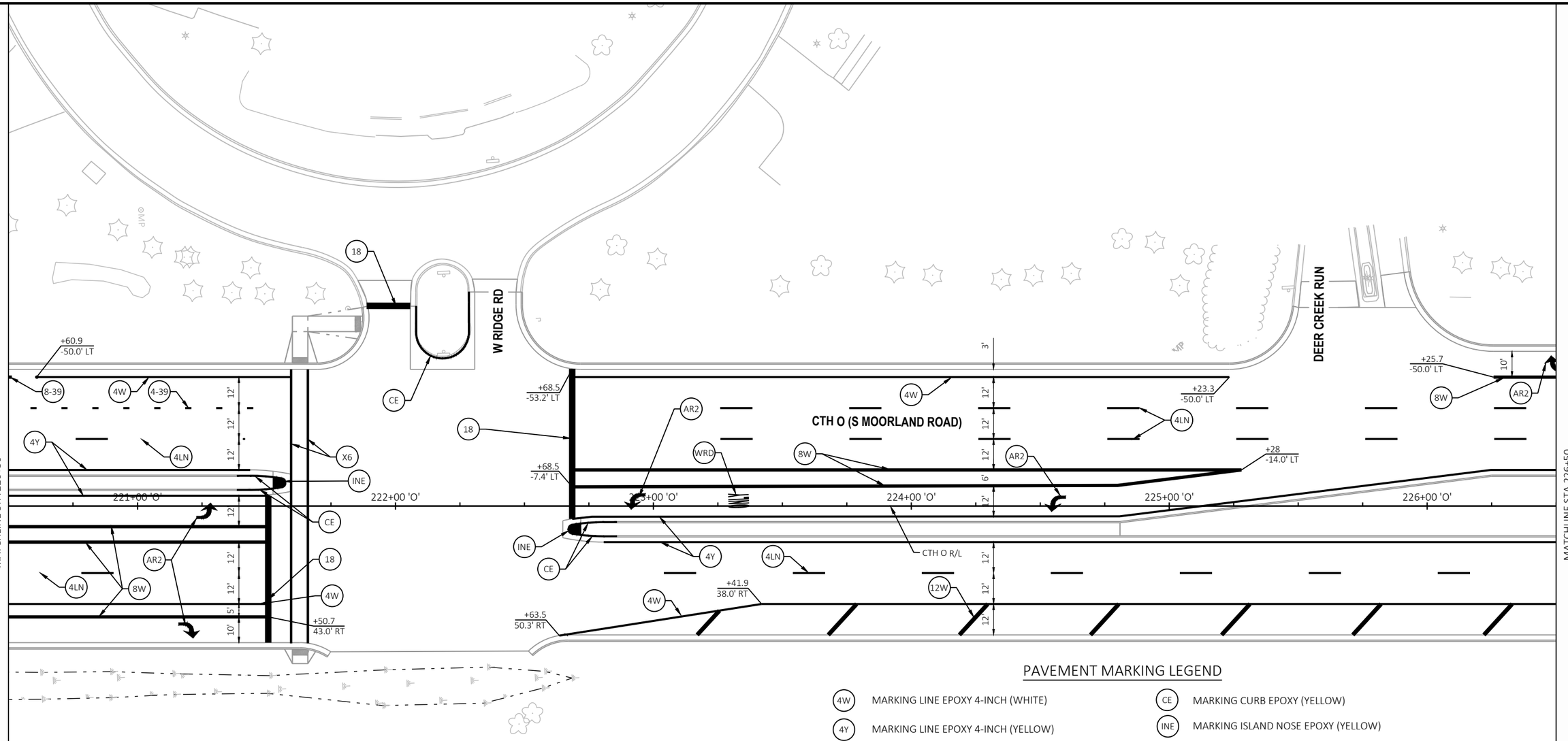


PAVEMENT MARKING LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4-26 — MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
- 4-39 — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 8W — MARKING LINE EPOXY 8-INCH (WHITE)
- 8-26 — MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
- 8-39 — MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
- 4LN — MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 18 — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- RR — MARKING RAILROAD CROSSING EPOXY (WHITE)
- CE — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- AR1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- AR2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- WRD — MARKING WORD EPOXY (WHITE)
- X6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- BLK — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- 12W — MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
- 12Y — MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

NOTES:
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 233	E



PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
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4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)
CE	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
WRD	MARKING WORD EPOXY (WHITE)
X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

NOTES:
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2

N

MARKING REMOVAL LINE
WATER BLASTING WIDE (TYP)

MARKING REMOVAL LINE
WATER BLASTING 4-INCH (TYP)

AR2
8W
8-39
4LN
CTH O (S MOORLAND ROAD)
10'
12'
12'
28'
12'
12'
12'
+58.2
-42.5' LT
+58.4
-30.5' LT
227+00 'O'
228+00 'O'
229+00 'O'
230+00 'O'
231+00 'O'
232+00 'O'
MATCHLINE STA 226+50
4Y
CTH O R/L
4LN
4LN
+95.5
38.0' RT
4W
+45.5
50.0' RT
12W
MARKING REMOVAL LINE
WATER BLASTING 4-INCH (TYP)

PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)
CE	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
WRD	MARKING WORD EPOXY (WHITE)
X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

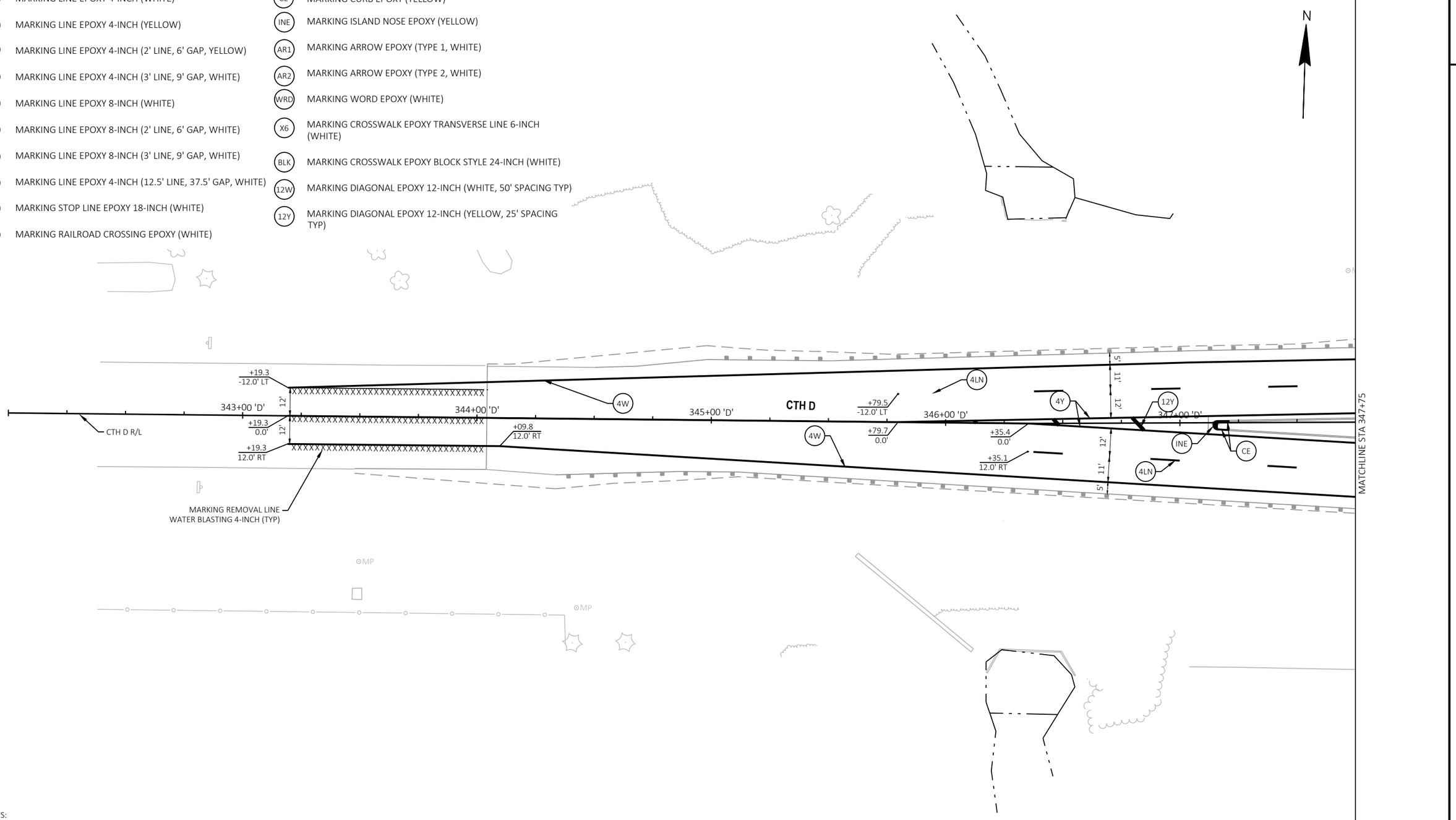
NOTES:
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 235	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\024501-PM.DWG
LAYOUT NAME - 14
PLOT DATE : 4/28/2026 11:29 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

PAVEMENT MARKING LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4-26 — MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
- 4-39 — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 8W — MARKING LINE EPOXY 8-INCH (WHITE)
- 8-26 — MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
- 8-39 — MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
- 4LN — MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 18 — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- RR — MARKING RAILROAD CROSSING EPOXY (WHITE)
- CE — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- AR1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- AR2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- WRD — MARKING WORD EPOXY (WHITE)
- X6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- BLK — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- 12W — MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
- 12Y — MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)



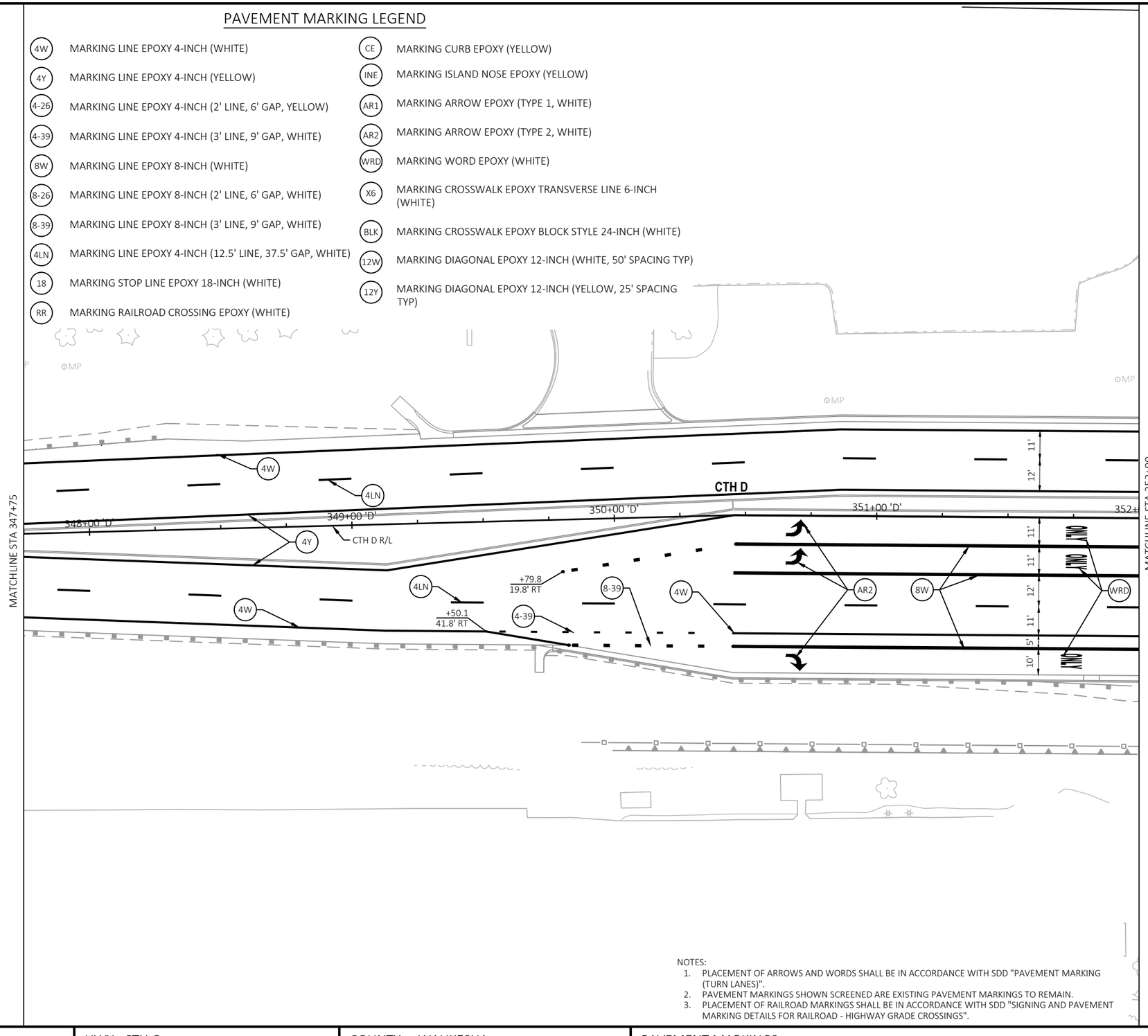
NOTES:
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 236	E

2

PAVEMENT MARKING LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4-26 — MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
- 4-39 — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 8W — MARKING LINE EPOXY 8-INCH (WHITE)
- 8-26 — MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
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- 18 — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- RR — MARKING RAILROAD CROSSING EPOXY (WHITE)
- CE — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- AR1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- AR2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- WRD — MARKING WORD EPOXY (WHITE)
- X6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- BLK — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- 12W — MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
- 12Y — MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

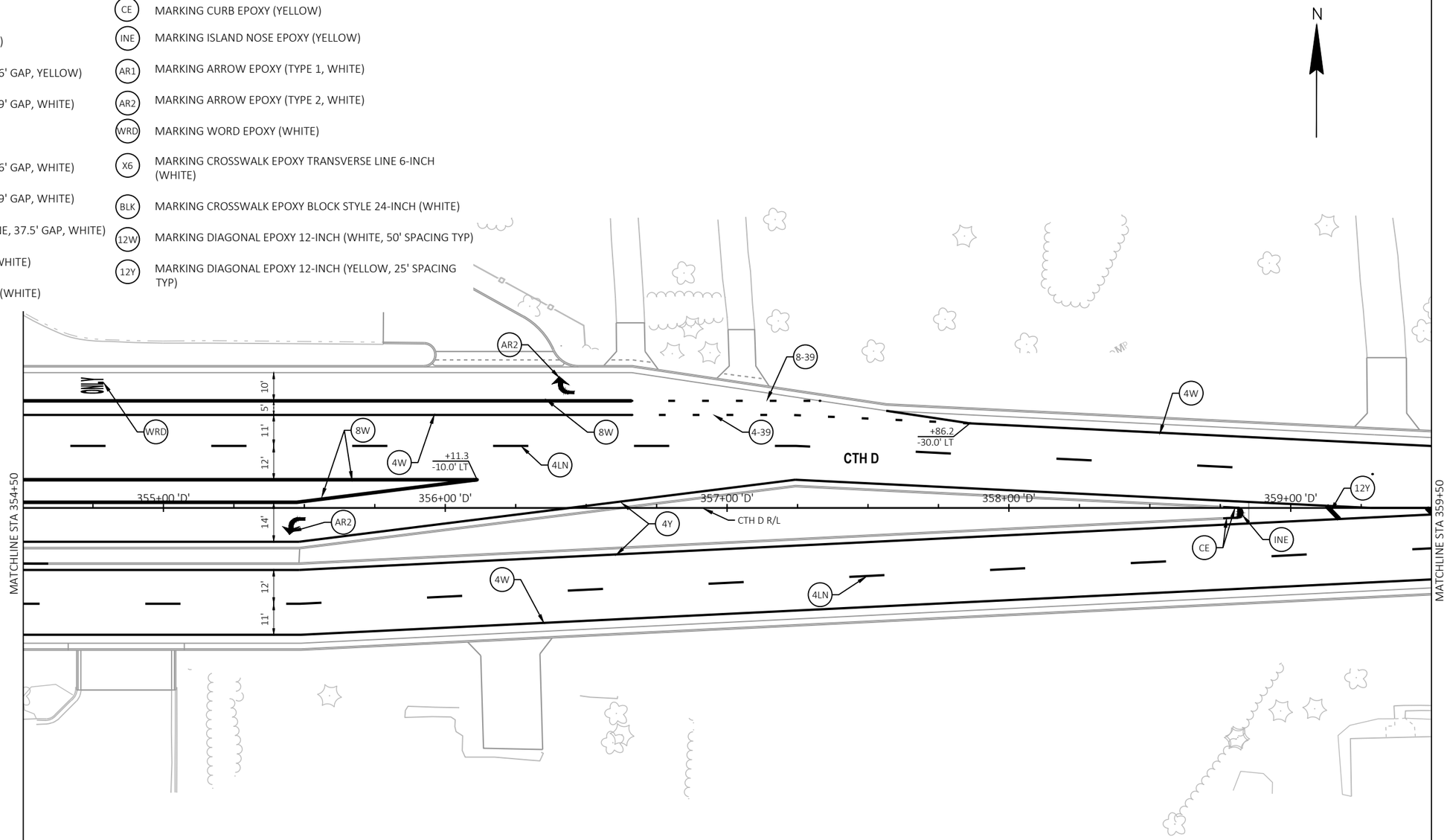


NOTES:
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 237	E

PAVEMENT MARKING LEGEND

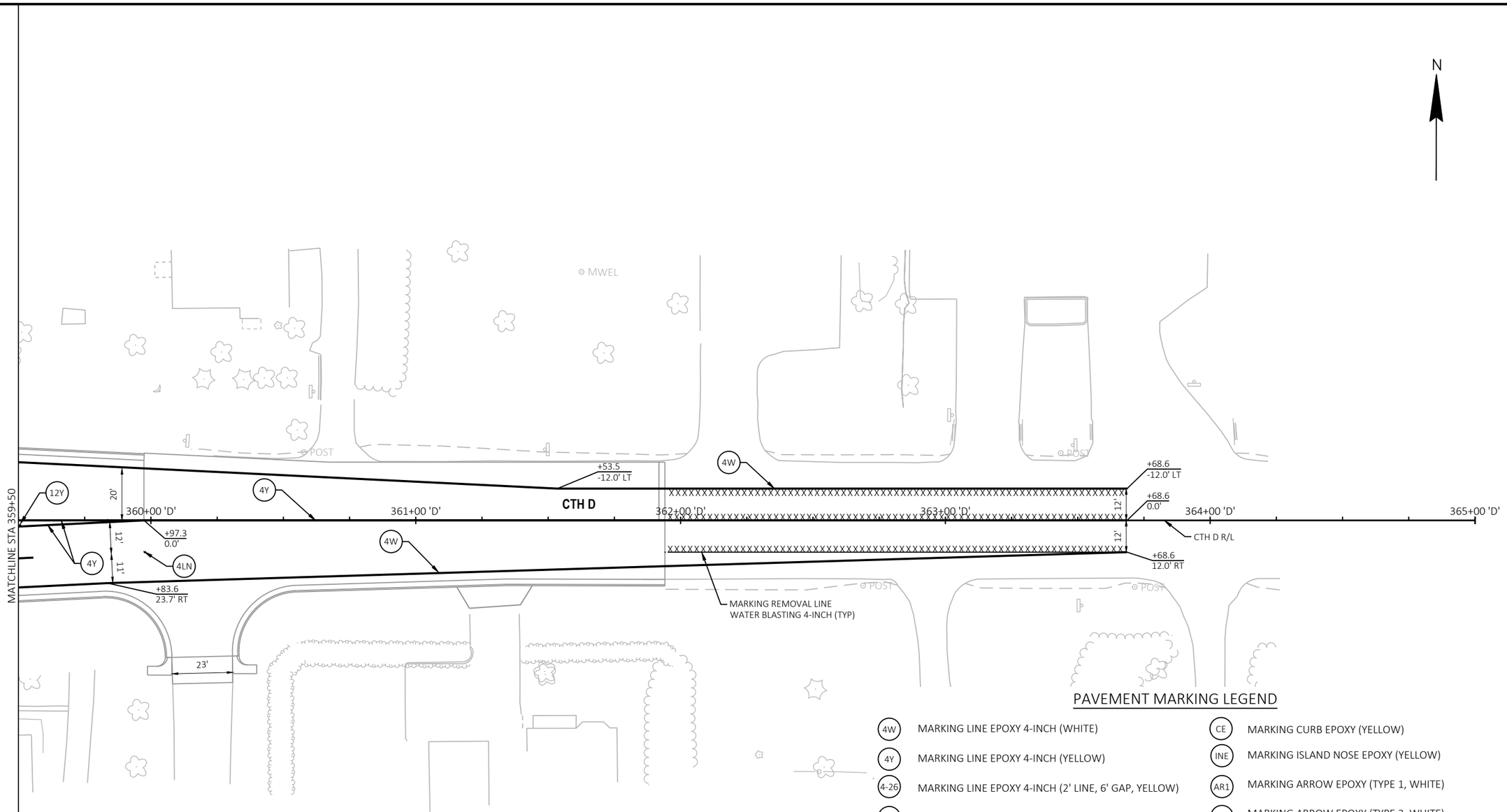
- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4-26 — MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
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- 8-26 — MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
- 8-39 — MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
- 4LN — MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 18 — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- RR — MARKING RAILROAD CROSSING EPOXY (WHITE)
- CE — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- AR1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- AR2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- WRD — MARKING WORD EPOXY (WHITE)
- X6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- BLK — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- 12W — MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
- 12Y — MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)



NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
3. PLACEMENT OF RAILROAD MARKINGS SHALL BE IN ACCORDANCE WITH SDD "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS".

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 238	E

2

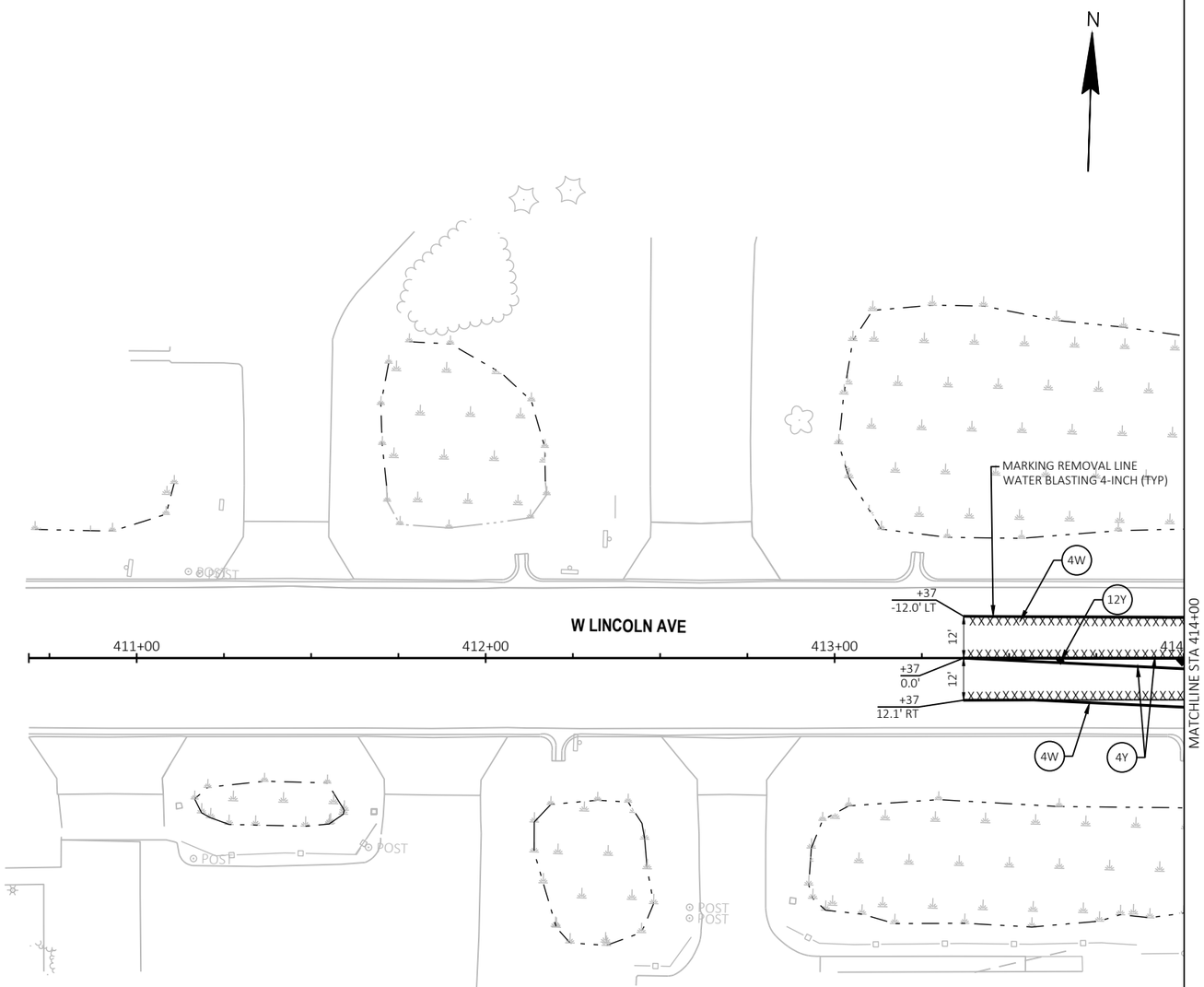


PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)	CE	MARKING CURB EPOXY (YELLOW)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)	INE	MARKING ISLAND NOSE EPOXY (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)	AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)	AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)	WRD	MARKING WORD EPOXY (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)	X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)	BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)	12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)	12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)		

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
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2



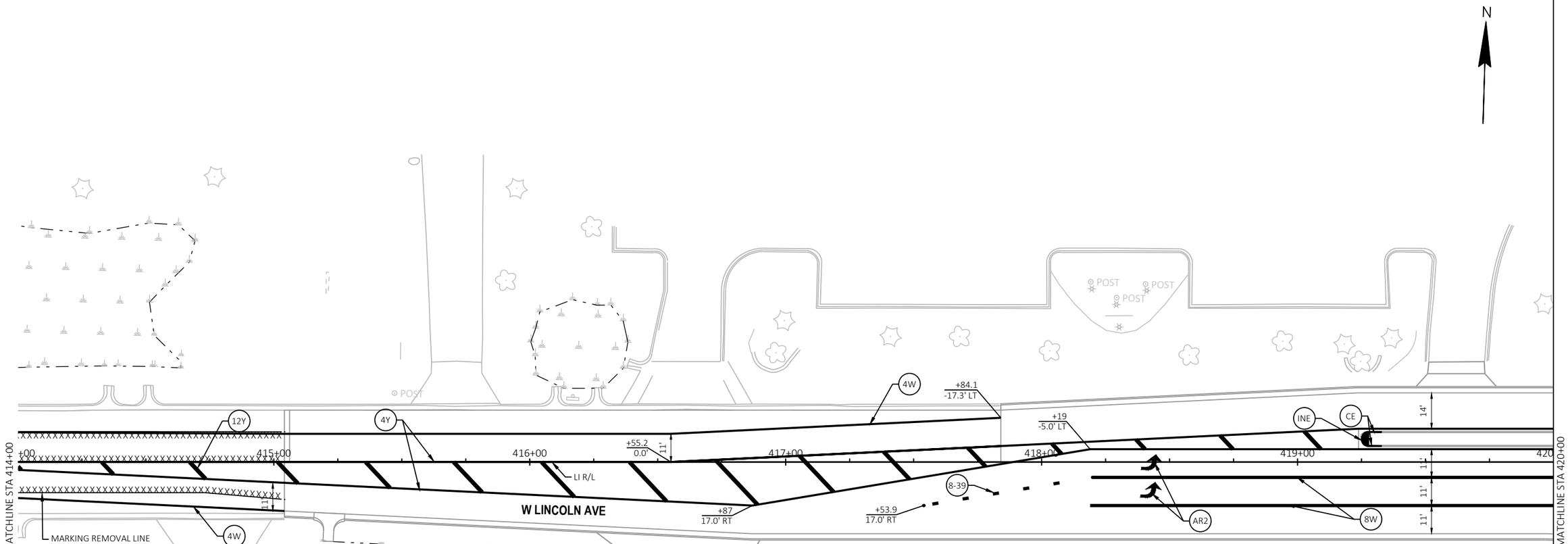
PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)
CE	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
WRD	MARKING WORD EPOXY (WHITE)
X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
3. PLACEMENT OF RAILROAD MARKINGS SHALL BE IN ACCORDANCE WITH SDD "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS".

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 240 E

2

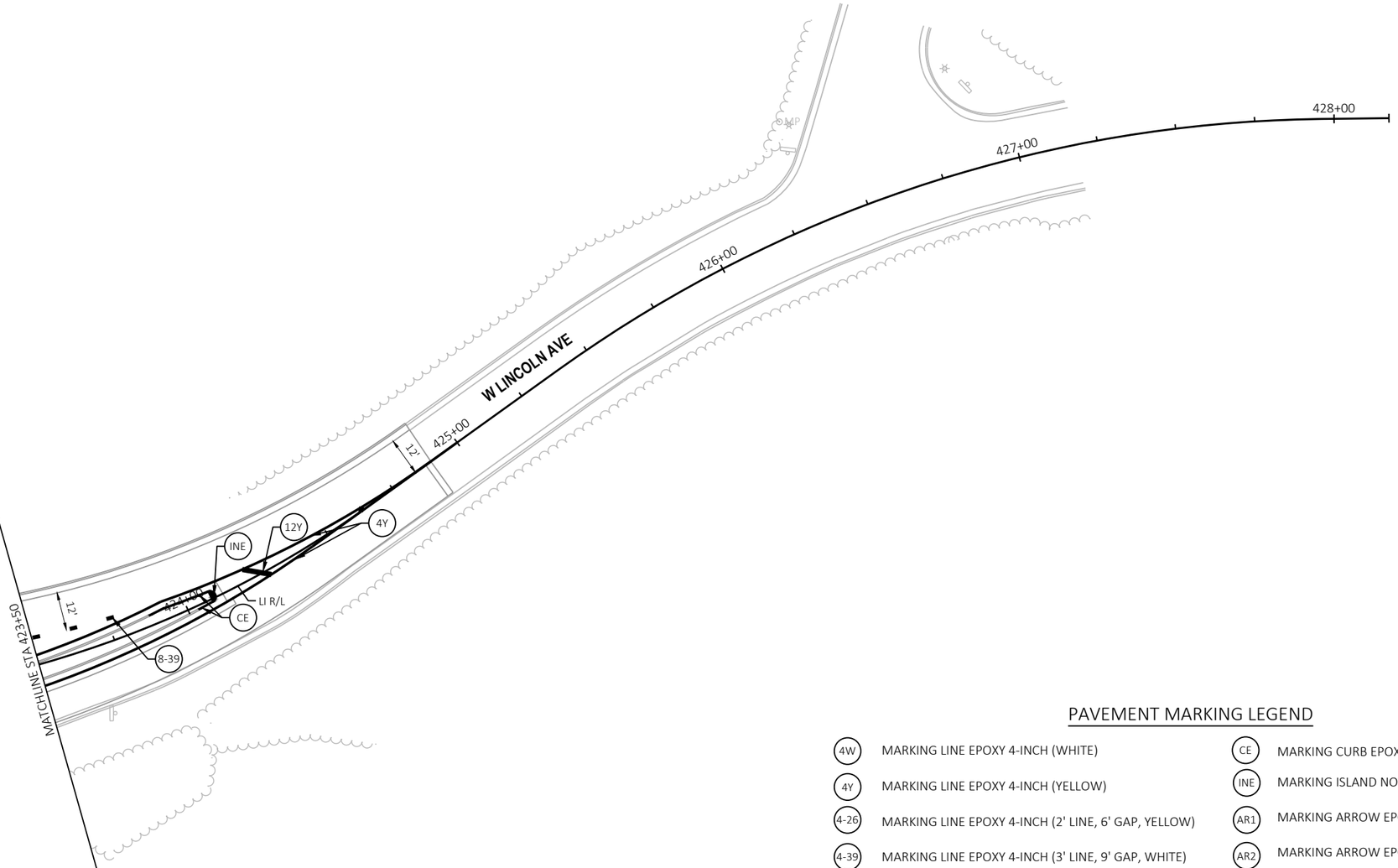


PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)
CE	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
WRD	MARKING WORD EPOXY (WHITE)
X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
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NOTES:
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PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)	CE	MARKING CURB EPOXY (YELLOW)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)	INE	MARKING ISLAND NOSE EPOXY (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)	AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)	AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)	WRD	MARKING WORD EPOXY (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)	X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)	BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)	12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)	12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)		

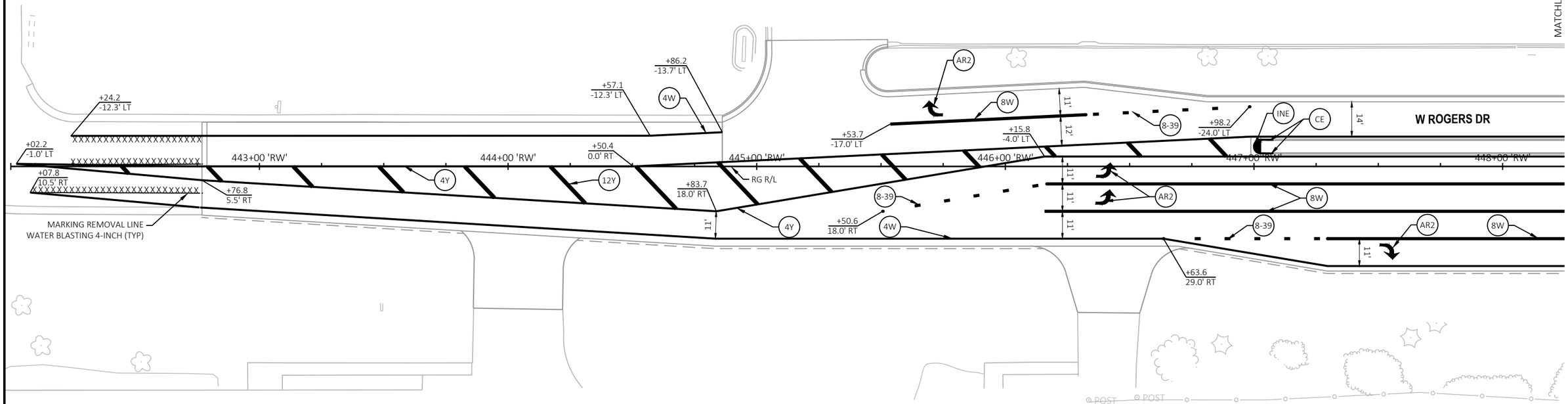
PAVEMENT MARKING LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4-26	MARKING LINE EPOXY 4-INCH (2' LINE, 6' GAP, YELLOW)
4-39	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
8W	MARKING LINE EPOXY 8-INCH (WHITE)
8-26	MARKING LINE EPOXY 8-INCH (2' LINE, 6' GAP, WHITE)
8-39	MARKING LINE EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
4LN	MARKING LINE EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
RR	MARKING RAILROAD CROSSING EPOXY (WHITE)
CE	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
AR1	MARKING ARROW EPOXY (TYPE 1, WHITE)
AR2	MARKING ARROW EPOXY (TYPE 2, WHITE)
WRD	MARKING WORD EPOXY (WHITE)
X6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
BLK	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
12W	MARKING DIAGONAL EPOXY 12-INCH (WHITE, 50' SPACING TYP)
12Y	MARKING DIAGONAL EPOXY 12-INCH (YELLOW, 25' SPACING TYP)

NOTES:
1. PLACEMENT OF ARROWS AND WORDS SHALL BE IN ACCORDANCE WITH SDD "PAVEMENT MARKING (TURN LANES)".
2. PAVEMENT MARKINGS SHOWN SCREENED ARE EXISTING PAVEMENT MARKINGS TO REMAIN.
3. PLACEMENT OF RAILROAD MARKINGS SHALL BE IN ACCORDANCE WITH SDD "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS".

N

MATCHLINE STA 448+25



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PAVEMENT MARKINGS	SHEET 243 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\024501-PM.DWG
LAYOUT NAME - 25-RW
PLOT DATE : 5/18/2026 4:18 PM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

GENERAL NOTES

1. TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS AND DRUMS ARE SPACED AT 25' ON CENTER EXCEPT AT DRIVEWAY AND INTERSECTIONS, WHERE SPACING OF FLEXIBLE TUBULAR MARKERS IS 5'. TRAFFIC CONTROL DRUMS IN LANE CLOSURE TAPERS ARE SPACED AT 25'

2. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL. EXISTING PAVEMENT MARKINGS TO BE REMOVED THAT WILL NOT BE REPLACED IN THE SAME LOCATION AFTER CONSTRUCTION SHALL BE REMOVED USING WATER BLASTING. DO NOT GRIND EXISTING PAVEMENT MARKINGS THAT WILL NOT BE REPLACED AFTER CONSTRUCTION.

3. 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 PLAYERS THAT ARE TO BE REMOVED OR OVERLAID IN SUBSEQUENT STAGES.

4. THE CONTRACTOR SHALL COVER ANY SIGN CONFLICTING WITH THE TRAFFIC CONTROL IN OPERATION AS NEEDED OR AS DIRECTED BY THE ENGINEER. COVERING SIGNS TO BE PAID FOR AS "TRAFFIC CONTROL COVERING SIGNS TYPE II" PAY ITEM

5. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, DIRECTIONAL ARROWS, LIGHTS, TEMPORARY MARKINGS, FLAGMEN, AND SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

6. DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHOD OR SEQUENCES OF OPERATION. THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD LOCATIONS AS APPROVED BY THE ENGINEER IN THE FIELD.

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

8. ALL SIGNS ARE 48" X 48" EXCEPT OTHERWISE NOTED

9. ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

10. ANY TEMPORARY "STOP" SIGNS THAT ARE INSTALLED SHALL INCLUDE FLAGS 16" X 16" MIN. (ORANGE) FLAGS ARE INCIDENTAL TO THE TRAFFIC CONTROL SIGNS ITEM.

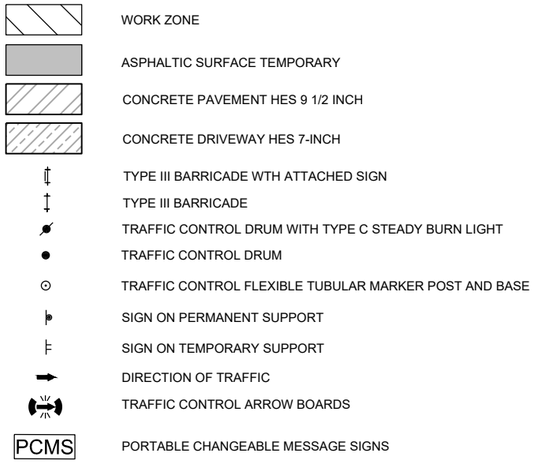
11. BOTH STEADY BURN LIGHTS AND FLASHING LIGHTS SHALL BE ONE WAY WITH THE LIGHT SOURCE SHOWING TOWARDS ADJACENT APPROACHING TRAFFIC.

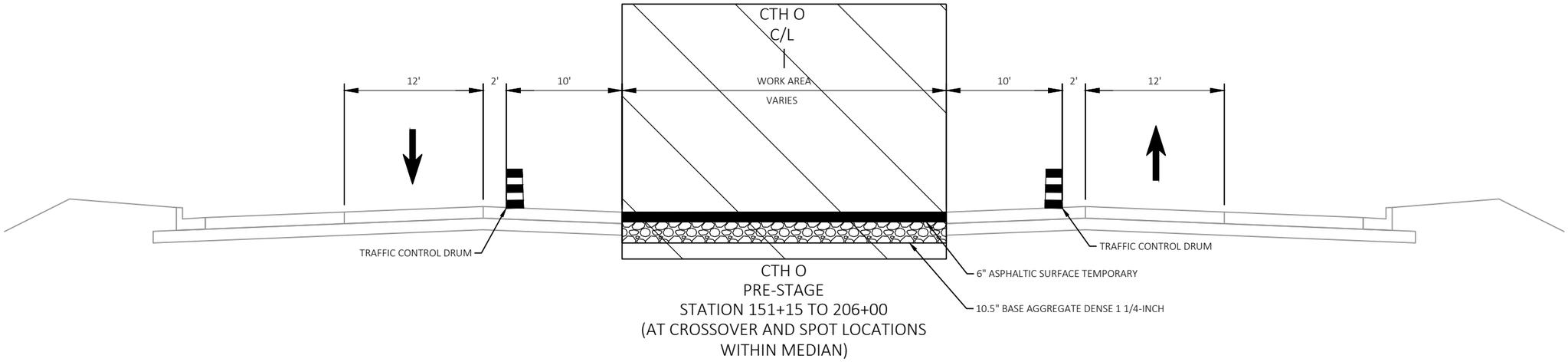
12. CHANNELIZING DEVICES SHALL BE DRUMS WITH ATTACHED TYPE "C" STEADY BURN LIGHT (APPROACH TAPERS ONLY).

13. ARROW BOARDS SHALL BE LOCATED AS SHOWN ON THE PLAN, OR AS DIRECTED BY THE ENGINEER.

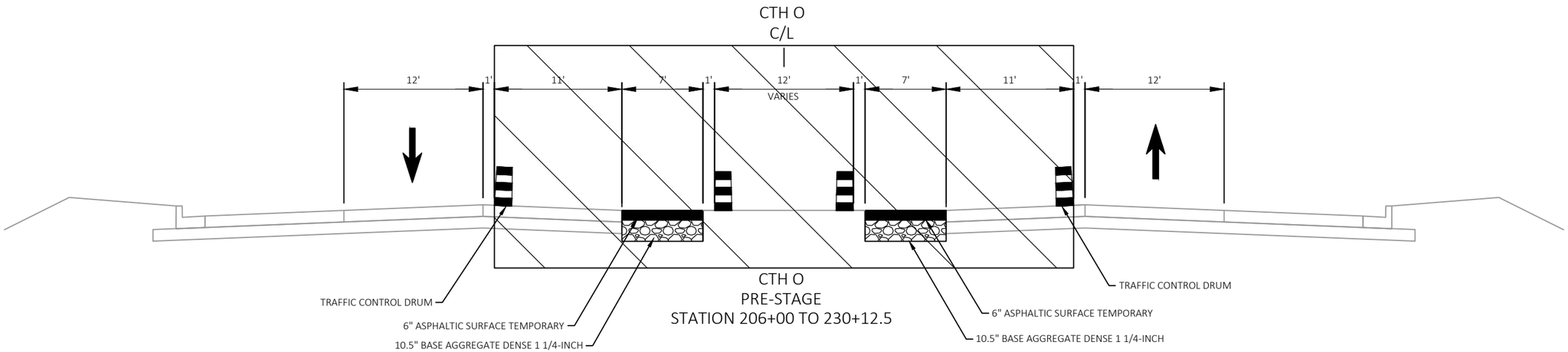
14. WEDGE OR RAMP ELEVATION DIFFERENCES BETWEEN PROPOSED CONCRETE PAVEMENT AND ADJACENT EXISTING CONCRETE PAVEMENT SECTIONS WITH ASPHALTIC SURFACE TEMPORARY. REMOVAL OF WEDGE OR RAMP IS INCIDENTAL TO EXCAVATION BID ITEM.

LEGEND

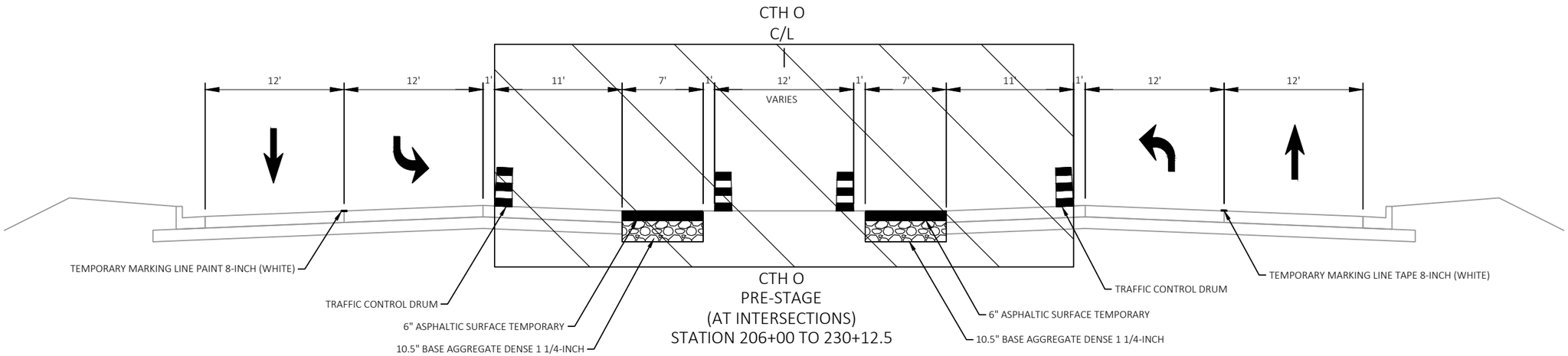




CTH O
PRE-STAGE
STATION 151+15 TO 206+00
(AT CROSSOVER AND SPOT LOCATIONS
WITHIN MEDIAN)

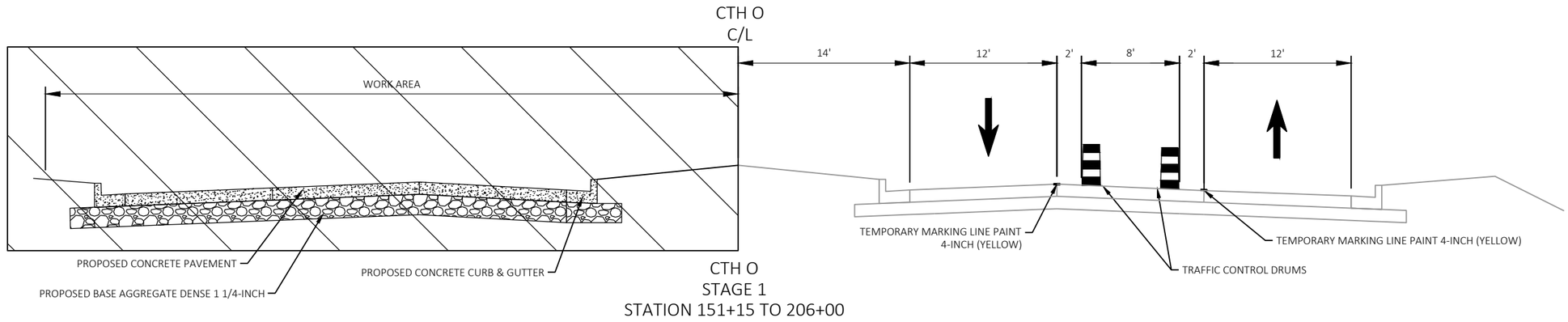


CTH O
PRE-STAGE
STATION 206+00 TO 230+12.5

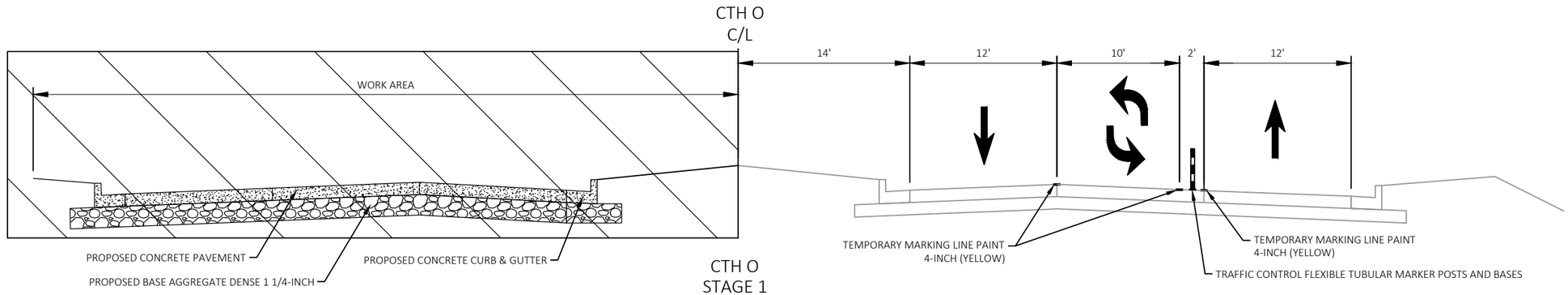


CTH O
PRE-STAGE
(AT INTERSECTIONS)
STATION 206+00 TO 230+12.5

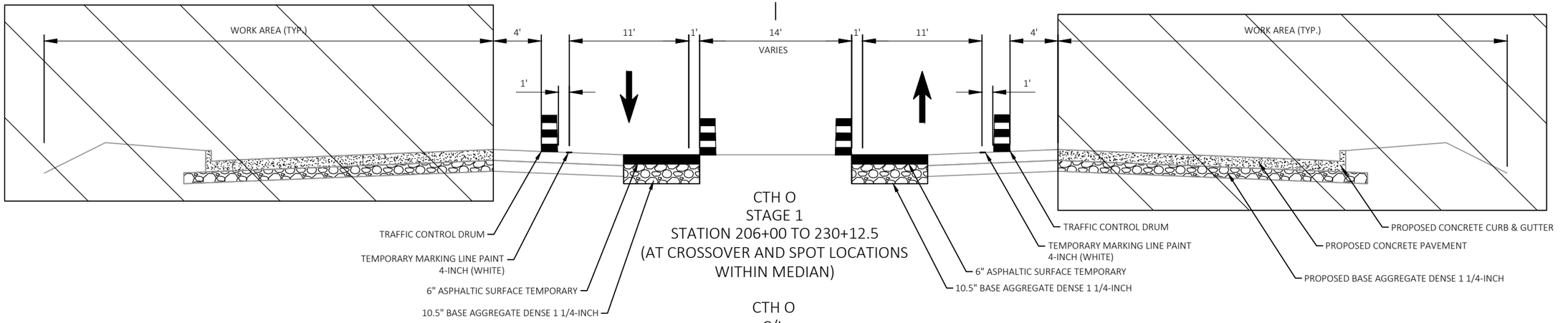
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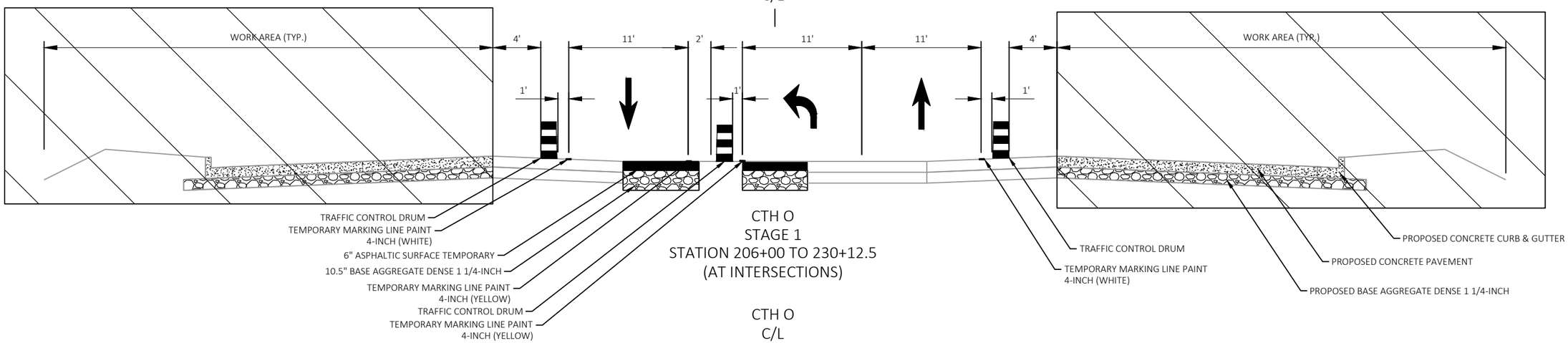


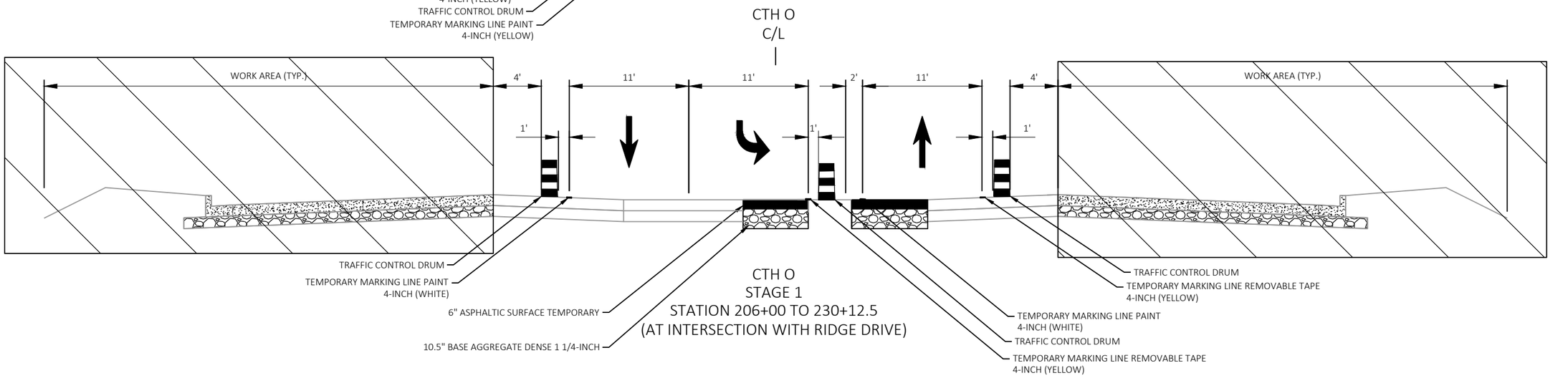
CTH O
STAGE 1
STATION 151+15 TO 206+00



CTH O
STAGE 1
(AT INTERSECTIONS)
STATION 151+15 TO 206+00

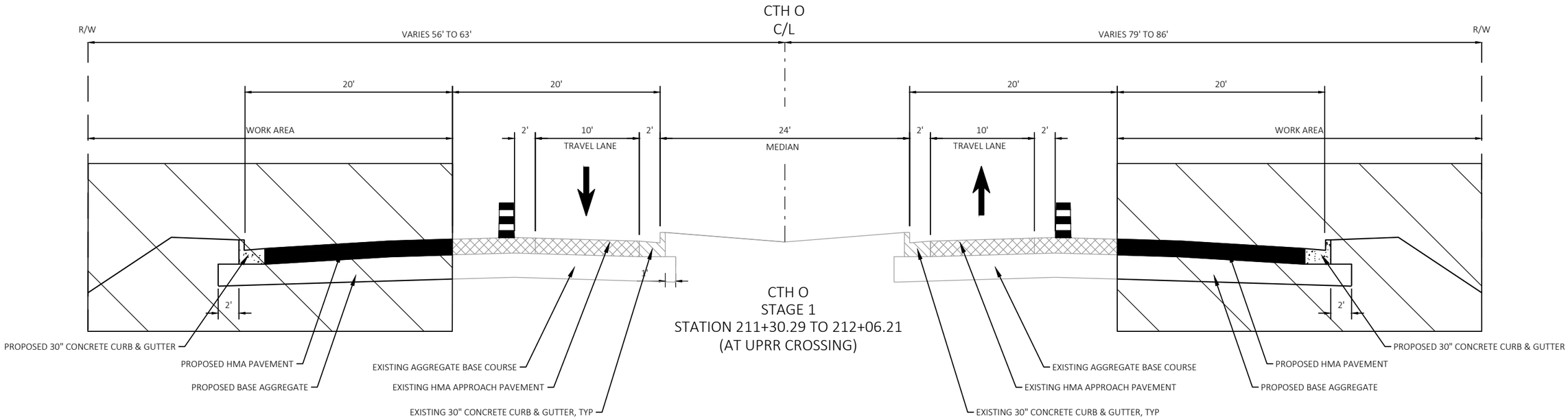






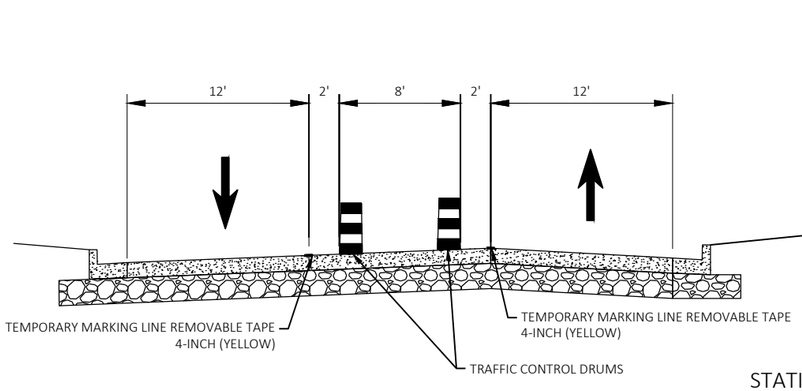
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGING	SHEET 247	E

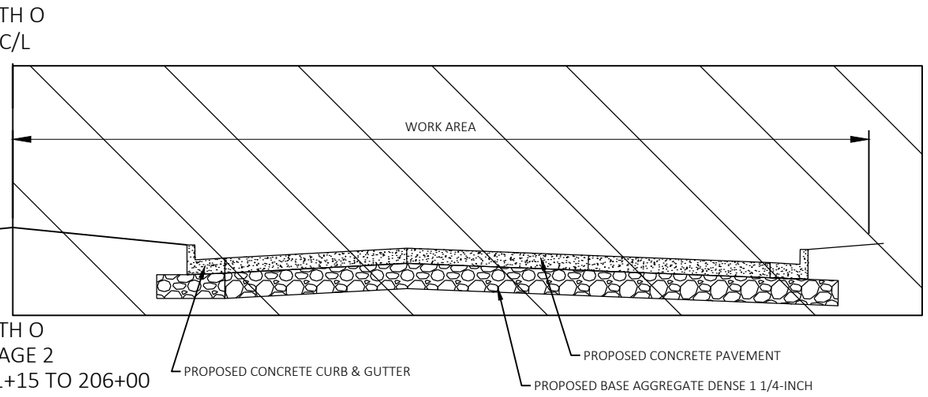
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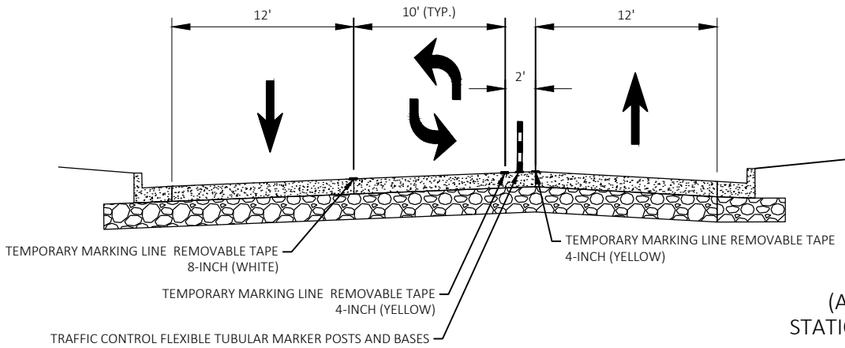
CTH O
STAGE 1
STATION 211+30.29 TO 212+06.21
(AT UPRR CROSSING)

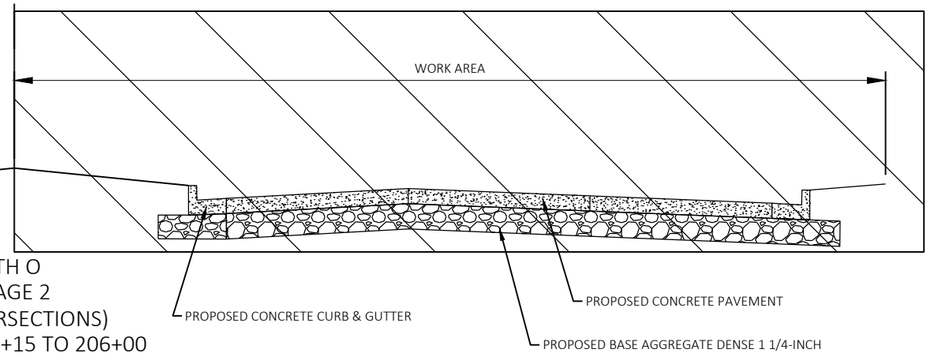
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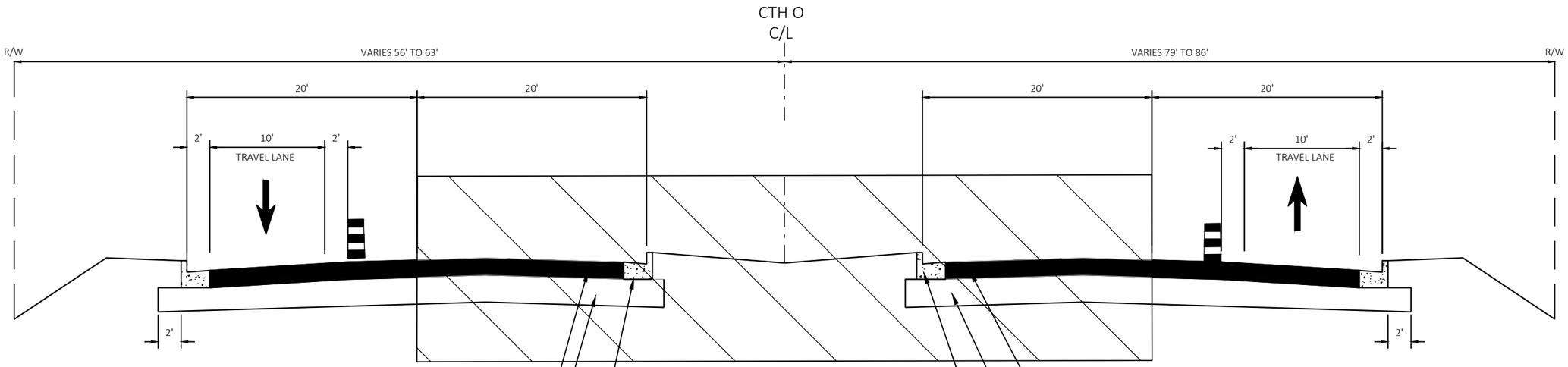


CTH O
STAGE 2
STATION 151+15 TO 206+00





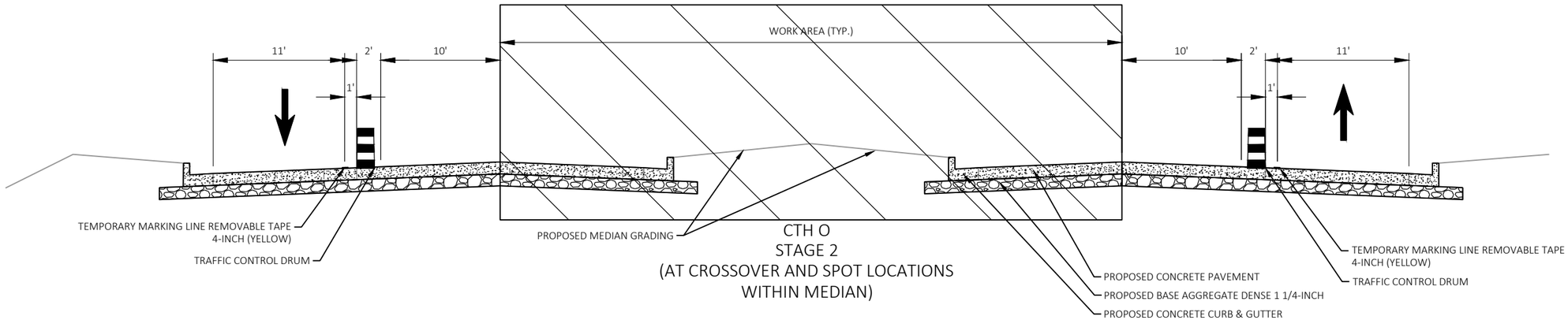
CTH O
STAGE 2
(AT INTERSECTIONS)
STATION 151+15 TO 206+00



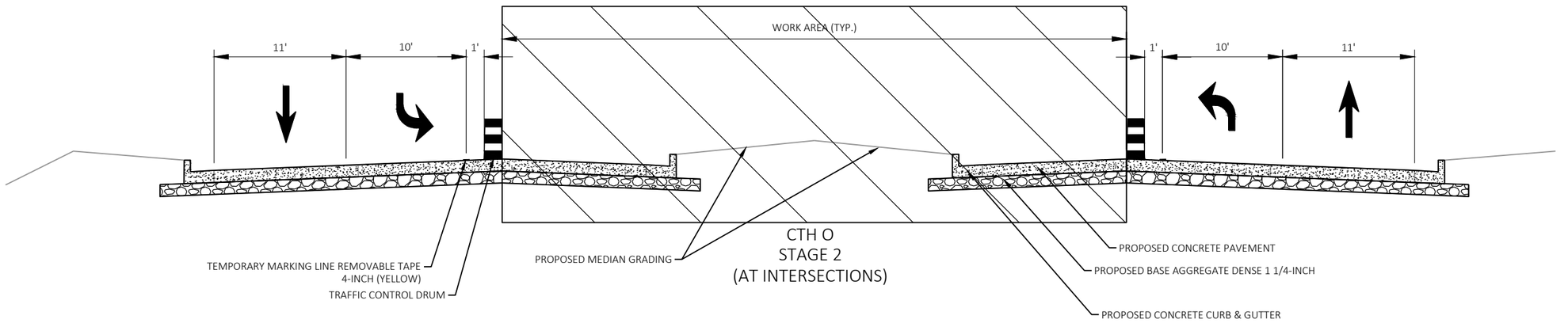
CTH O
STAGE 2
STATION 211+30.29 TO 212.06.21
(AT UPRR CROSSING)

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGING	SHEET 249	E

2



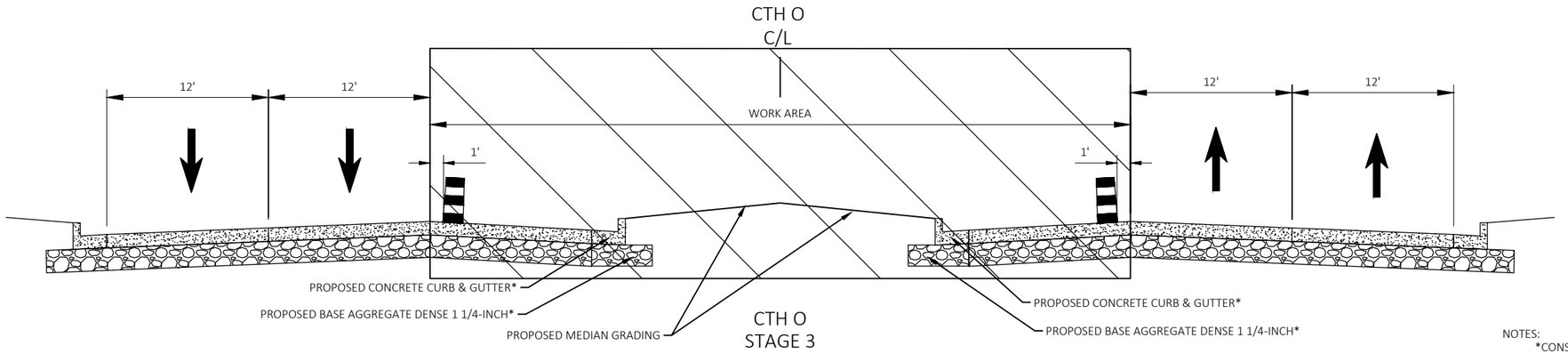
CTH O
STAGE 2
(AT CROSSOVER AND SPOT LOCATIONS
WITHIN MEDIAN)



CTH O
STAGE 2
(AT INTERSECTIONS)

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGING	SHEET 250	E

2



CTH O
STAGE 3
STATION 151+15 TO 230+12.5

NOTES:
*CONSTRUCTED AT SPOT LOCATIONS FOR CROSSOVERS, INTERSECTIONS, AND MEDIAN GAPS

2

LEGEND

WORK AREA

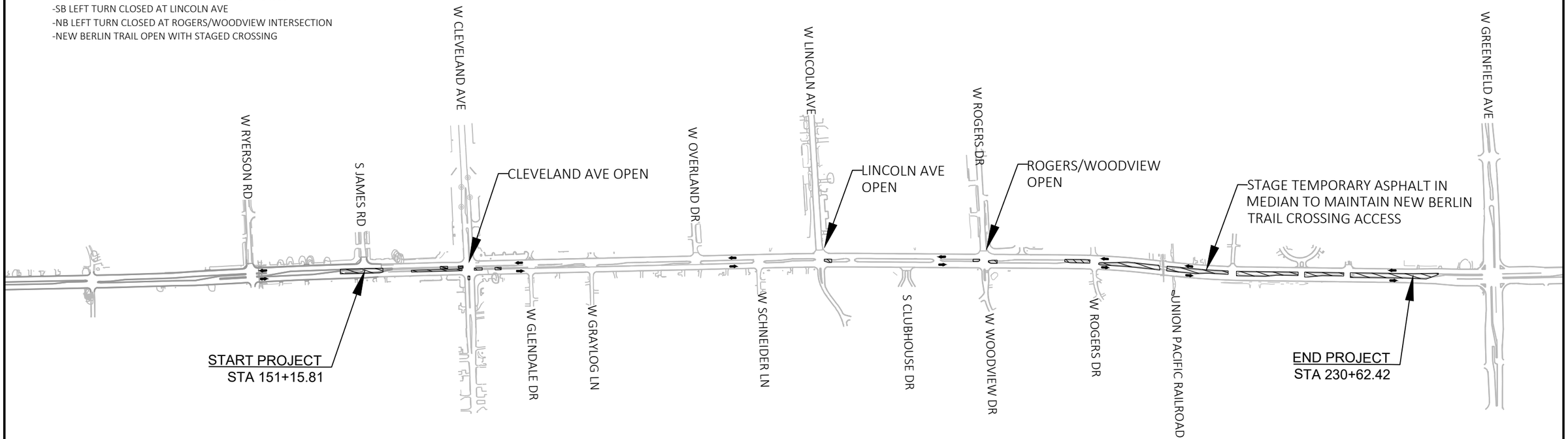
TRAFFIC FLOW ARROW

PRESTAGE

CTH O:

CONSTRUCTION
-CONSTRUCT TEMPORARY PAVEMENT IN MEDIAN AND TEMPORARY SIGNALS
-CONSTRUCT TEMPORARY PEDESTRIAN ASPHALT ON NEW BERLIN TRAIL

TRAFFIC
-INSIDE LANE CLOSURES ALONG MOORLAND ROAD FOR MEDIAN AND SIGNAL WORK
-NB LEFT TURN CLOSED AT CLEVELAND AVE INTERSECTION
-SB LEFT TURN CLOSED AT LINCOLN AVE
-NB LEFT TURN CLOSED AT ROGERS/WOODVIEW INTERSECTION
-NEW BERLIN TRAIL OPEN WITH STAGED CROSSING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL PRESTAGE OVERVIEW	SHEET 252	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRE-OVERVIEW.DWG
LAYOUT NAME - PRESTAGE OVERVIEW

PLOT DATE : 7/23/2026 3:01 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:750 FT

WISDOT/CADDS SHEET 42

LEGEND

WORK AREA

TRAFFIC FLOW ARROW

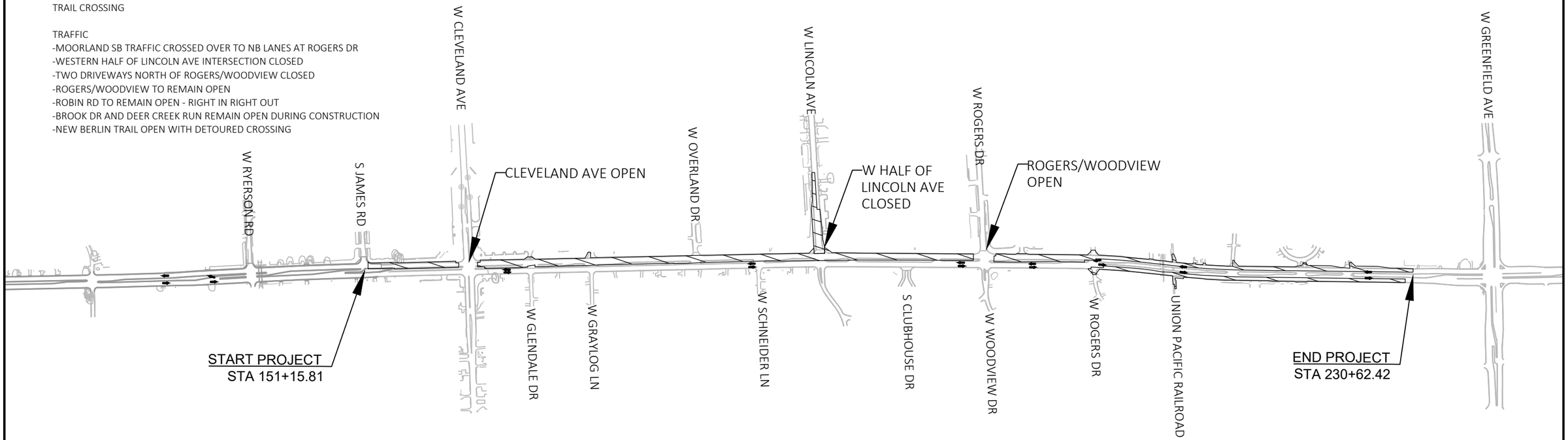
N

STAGE 1A

CTH O:

CONSTRUCTION
-CONSTRUCT MOORLAND SB LANES - RYERSON RD TO ROGERS DR
-CONSTRUCT MOORLAND OUTSIDE LANES - ROGERS DR TO GREENFIELD AVE
-CONSTRUCT TWO DRIVEWAYS NORTH OF ROGERS/WOODVIEW
-CONSTRUCTION OF ROBIN RD, BROOK DR, AND DEER CREEK RUN; STAGED HALF AT A TIME
-CONSTRUCT WESTERN HALF OF LINCOLN AVE INTERSECTION
-CONSTRUCT TEMPORARY ASPHALT ON MOORLAND ROAD AT PROPOSED NEW BERLIN TRAIL CROSSING

TRAFFIC
-MOORLAND SB TRAFFIC CROSSED OVER TO NB LANES AT ROGERS DR
-WESTERN HALF OF LINCOLN AVE INTERSECTION CLOSED
-TWO DRIVEWAYS NORTH OF ROGERS/WOODVIEW CLOSED
-ROGERS/WOODVIEW TO REMAIN OPEN
-ROBIN RD TO REMAIN OPEN - RIGHT IN RIGHT OUT
-BROOK DR AND DEER CREEK RUN REMAIN OPEN DURING CONSTRUCTION
-NEW BERLIN TRAIL OPEN WITH DETOURED CROSSING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1A OVERVIEW	SHEET 253	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1A-OVERVIEW.DWG
LAYOUT NAME - STAGE 1A OVERVIEW

PLOT DATE : 7/23/2026 3:01 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:750 FT

WISDOT/CADDS SHEET 42

2

LEGEND

WORK AREA

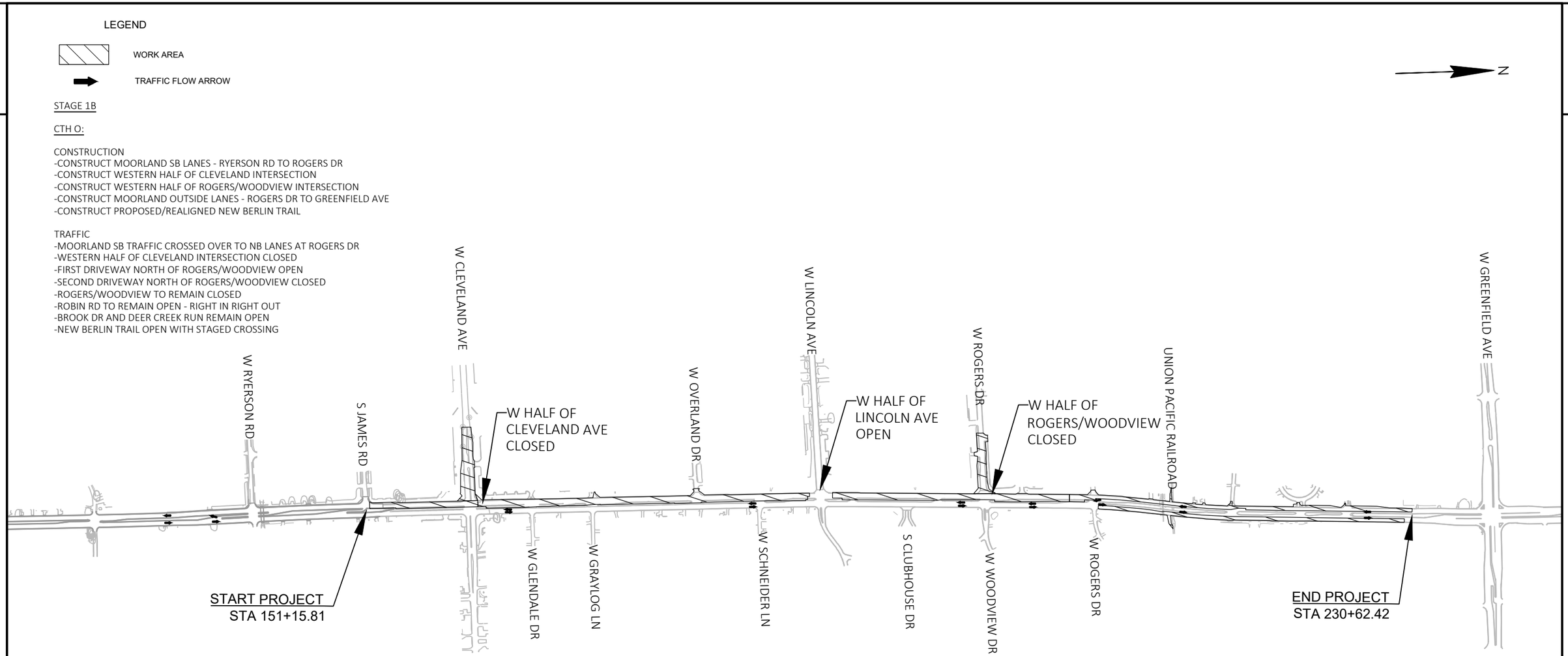
TRAFFIC FLOW ARROW

STAGE 1B

CTH O:

CONSTRUCTION
-CONSTRUCT MOORLAND SB LANES - RYERSON RD TO ROGERS DR
-CONSTRUCT WESTERN HALF OF CLEVELAND INTERSECTION
-CONSTRUCT WESTERN HALF OF ROGERS/WOODVIEW INTERSECTION
-CONSTRUCT MOORLAND OUTSIDE LANES - ROGERS DR TO GREENFIELD AVE
-CONSTRUCT PROPOSED/REALIGNED NEW BERLIN TRAIL

TRAFFIC
-MOORLAND SB TRAFFIC CROSSED OVER TO NB LANES AT ROGERS DR
-WESTERN HALF OF CLEVELAND INTERSECTION CLOSED
-FIRST DRIVEWAY NORTH OF ROGERS/WOODVIEW OPEN
-SECOND DRIVEWAY NORTH OF ROGERS/WOODVIEW CLOSED
-ROGERS/WOODVIEW TO REMAIN CLOSED
-ROBIN RD TO REMAIN OPEN - RIGHT IN RIGHT OUT
-BROOK DR AND DEER CREEK RUN REMAIN OPEN
-NEW BERLIN TRAIL OPEN WITH STAGED CROSSING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1B OVERVIEW	SHEET 254	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B-OVERVIEW.DWG
LAYOUT NAME - STAGE 1B OVERVIEW
PLOT DATE : 7/23/2026 3:01 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:750 FT
WISDOT/CADDS SHEET 42

2

LEGEND

WORK AREA

TRAFFIC FLOW ARROW

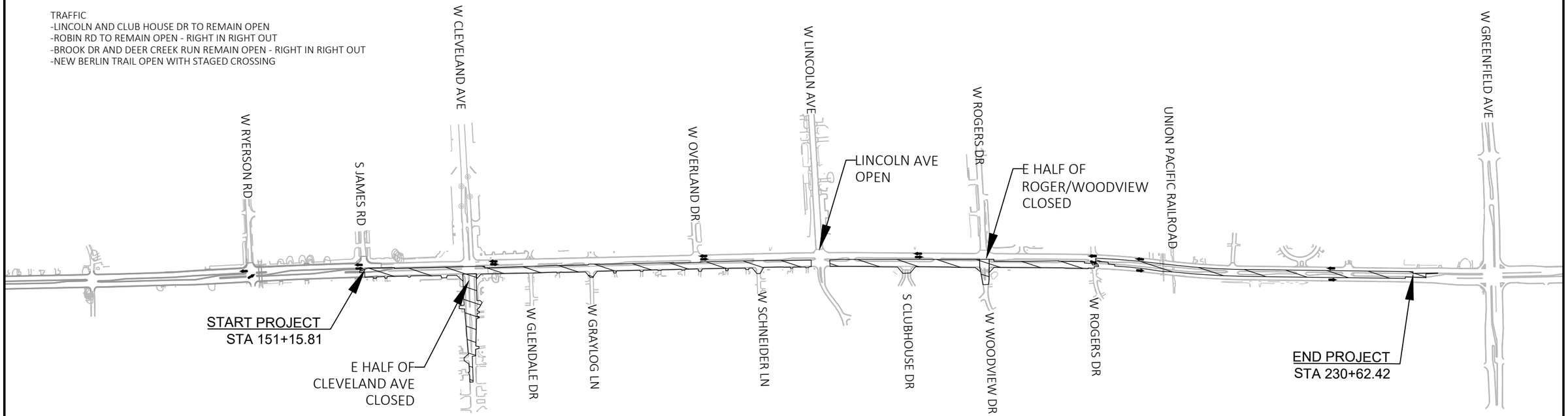
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STAGE 2A

CTH O:

CONSTRUCTION
-CONSTRUCT MOORLAND NB LANES - RYERSON RD TO ROGERS DR
-CONSTRUCT EASTERN HALF OF CLEVELAND INTERSECTION
-CONSTRUCT EASTERN HALF OF ROGERS/WOODVIEW INTERSECTION
-CONSTRUCT MOORLAND INSIDE LANES AND MEDIAN - ROGERS DR TO GREENFIELD AVE
-REMOVE OLD NEW BERLIN TRAIL CROSSING
-CONSTRUCT PROPOSED NEW BERLIN TRAIL CROSSING IN MEDIAN

TRAFFIC
-LINCOLN AND CLUB HOUSE DR TO REMAIN OPEN
-ROBIN RD TO REMAIN OPEN - RIGHT IN RIGHT OUT
-BROOK DR AND DEER CREEK RUN REMAIN OPEN - RIGHT IN RIGHT OUT
-NEW BERLIN TRAIL OPEN WITH STAGED CROSSING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2A OVERVIEW	SHEET 255	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A-OVERVIEW.DWG
LAYOUT NAME - STAGE 2A OVERVIEW

PLOT DATE : 7/23/2026 3:01 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:750 FT

WISDOT/CADDS SHEET 42

2

LEGEND

WORK AREA

TRAFFIC FLOW ARROW

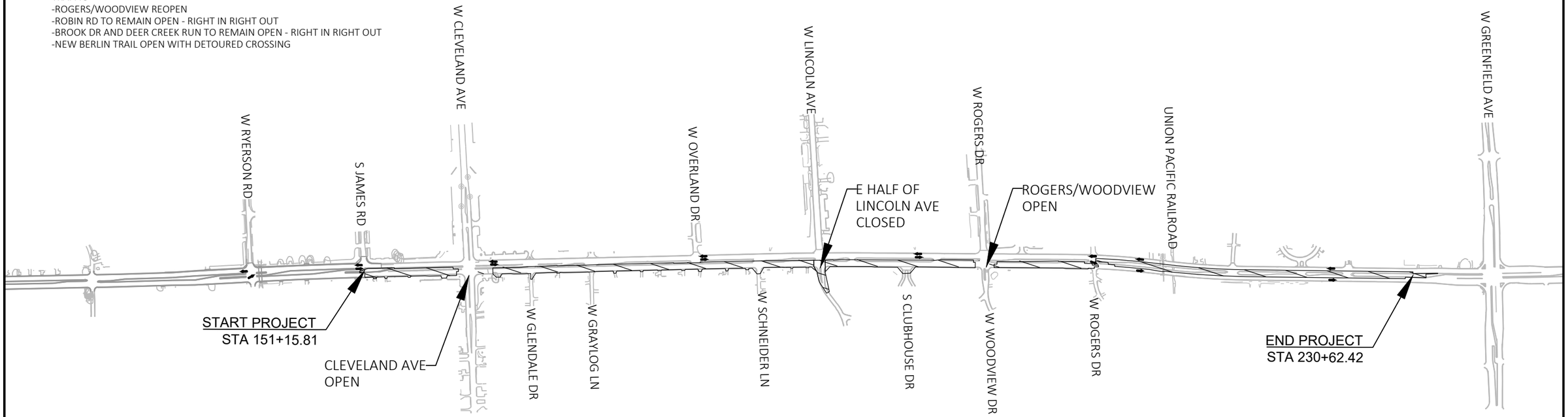
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STAGE 2B

CTH O:

CONSTRUCTION
-CONSTRUCT MOORLAND NB LANES - RYERSON RD TO ROGERS DR
-CONSTRUCT EASTERN HALF OF LINCOLN INTERSECTION
-CONSTRUCT CLUB HOUSE DR
-CONSTRUCT MOORLAND INSIDE LANES AND MEDIAN - ROGERS DR TO GREENFIELD AVE

TRAFFIC
-ROGERS/WOODVIEW REOPEN
-ROBIN RD TO REMAIN OPEN - RIGHT IN RIGHT OUT
-BROOK DR AND DEER CREEK RUN TO REMAIN OPEN - RIGHT IN RIGHT OUT
-NEW BERLIN TRAIL OPEN WITH DETOURED CROSSING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2B OVERVIEW	SHEET 256	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B-OVERVIEW.DWG
LAYOUT NAME - STAGE 2B OVERVIEW

PLOT DATE : 7/23/2026 3:01 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:750 FT

WISDOT/CADDS SHEET 42

LEGEND

WORK AREA

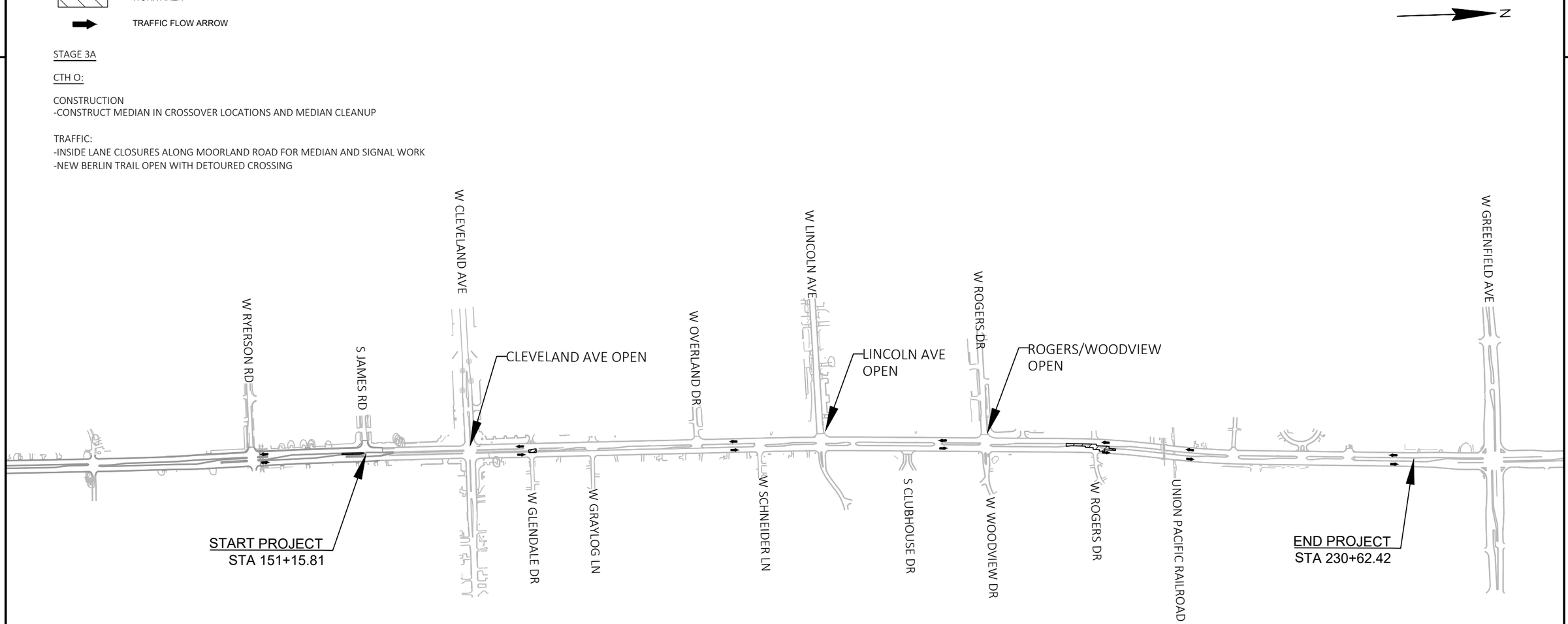
TRAFFIC FLOW ARROW

STAGE 3A

CTH O:

CONSTRUCTION
-CONSTRUCT MEDIAN IN CROSSOVER LOCATIONS AND MEDIAN CLEANUP

TRAFFIC:
-INSIDE LANE CLOSURES ALONG MOORLAND ROAD FOR MEDIAN AND SIGNAL WORK
-NEW BERLIN TRAIL OPEN WITH DETOURED CROSSING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3 OVERVIEW	SHEET 257	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A-OVERVIEW.DWG
LAYOUT NAME - STAGE 3A OVERVIEW

PLOT DATE : 7/23/2026 3:01 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:750 FT

WISDOT/CADDS SHEET 42

2

LEGEND

WORK AREA

TRAFFIC FLOW ARROW

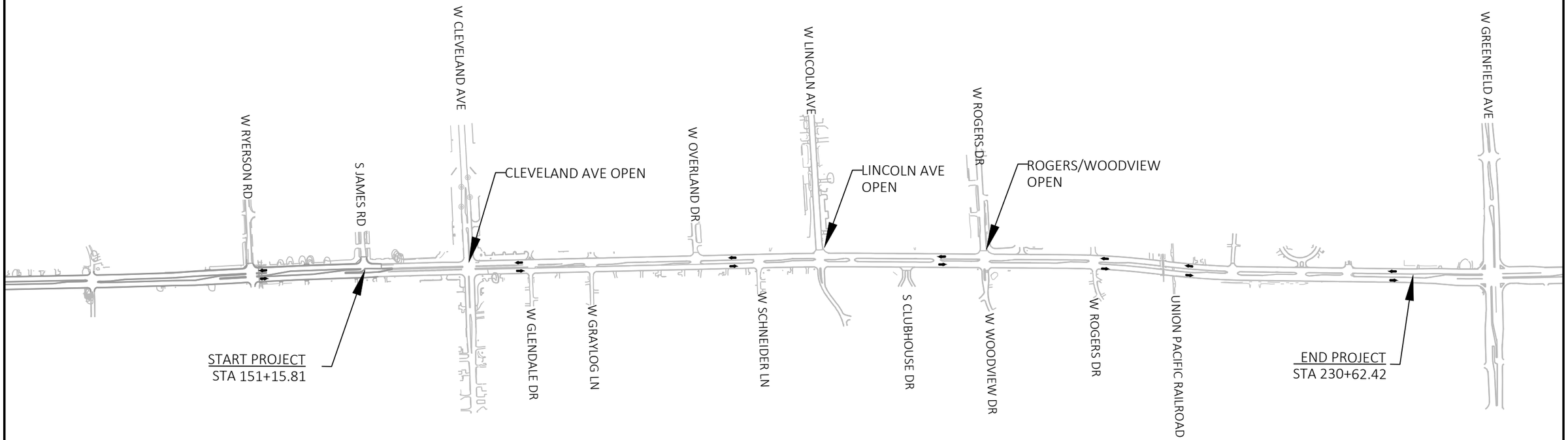
N

STAGE 4

CTH O:

CONSTRUCTION
-CONSTRUCT FINAL RESTORATION

TRAFFIC:
-SINGLE LANE CLOSURES AND SHOULDER CLOSURES AS NEEDED ALONG MOORLAND ROAD
-ALL ROADS OPEN TO REGULAR TRAFFIC



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4 OVERVIEW	SHEET 258	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_4-OVERVIEW.DWG
LAYOUT NAME - STAGE 4 OVERVIEW

PLOT DATE : 7/23/2026 3:01 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:750 FT

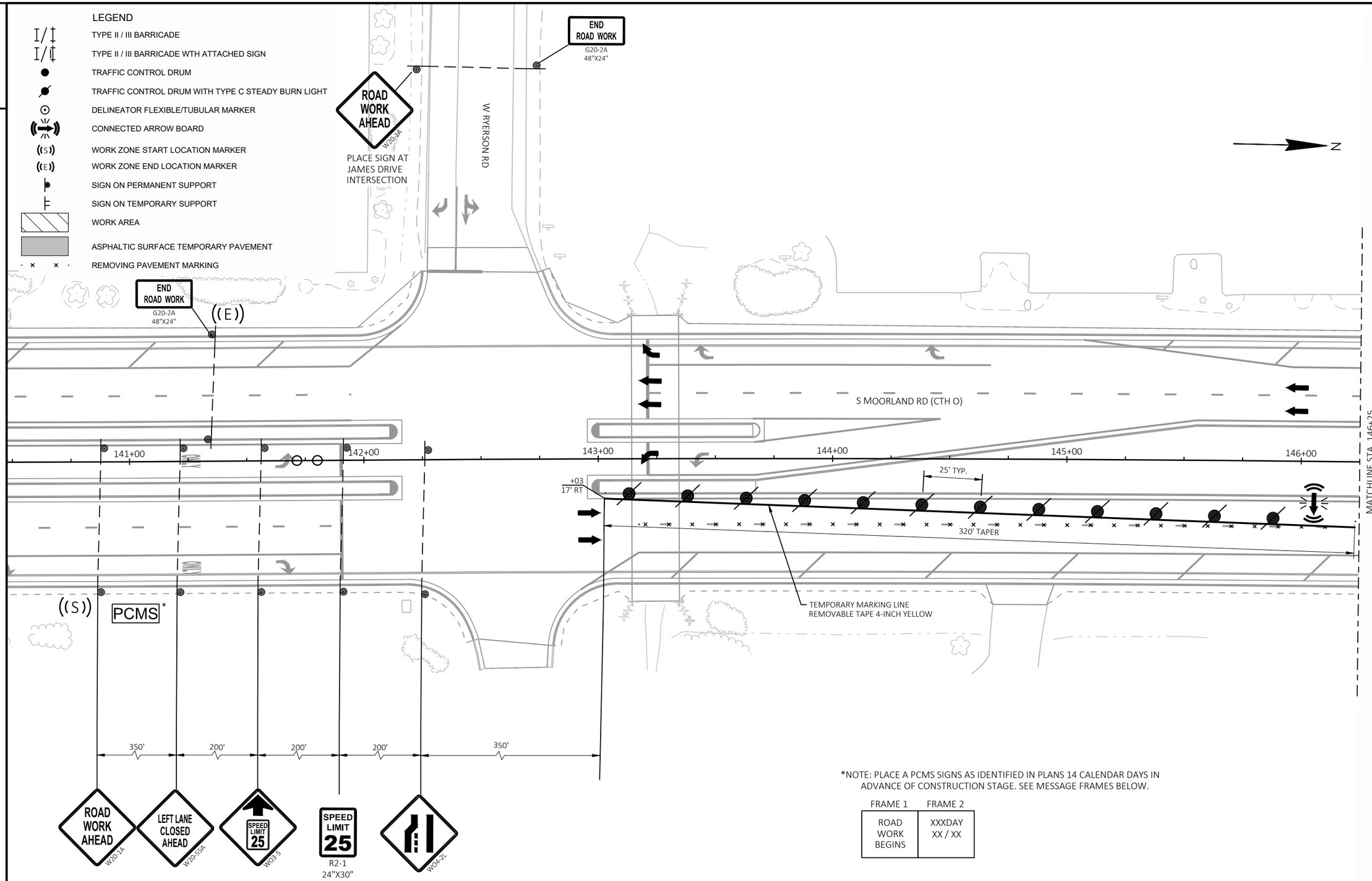
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



*NOTE: PLACE A PCMS SIGNS AS IDENTIFIED IN PLANS 14 CALENDAR DAYS IN ADVANCE OF CONSTRUCTION STAGE. SEE MESSAGE FRAMES BELOW.

FRAME 1	FRAME 2
ROAD WORK BEGINS	XXXDAY XX / XX

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 259	E

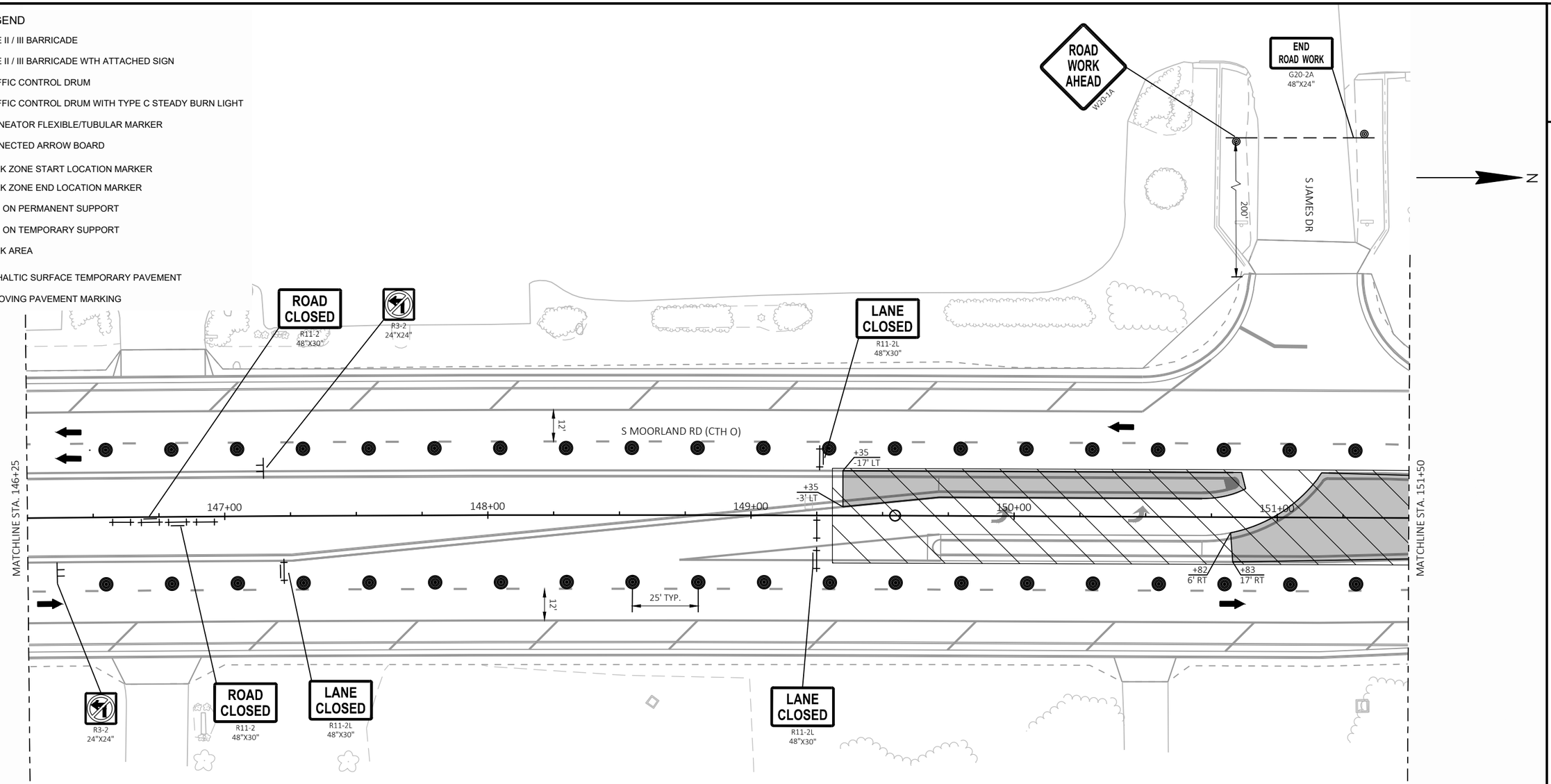
FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025101-tc

PLOT DATE : 7/23/2026 3:01 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



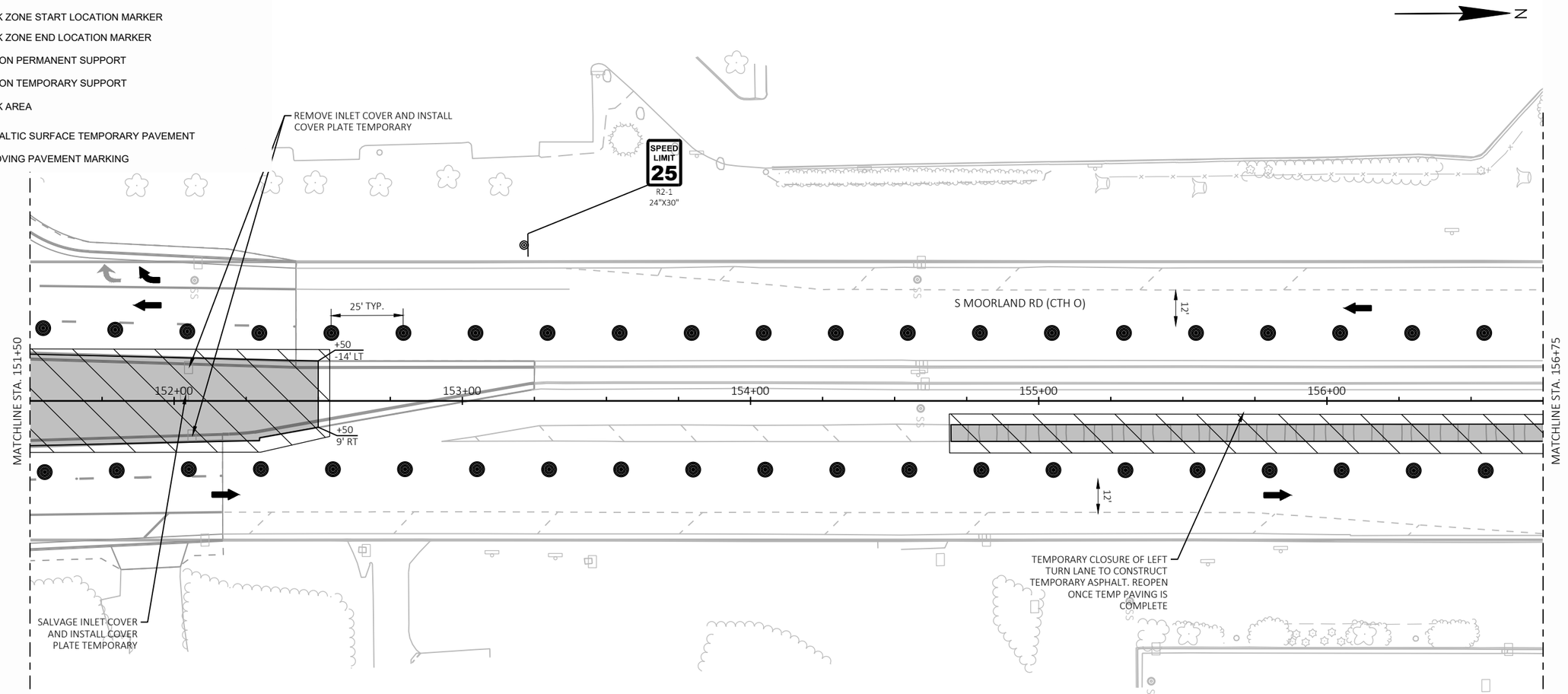
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 260	E

2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 261	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025103-tc

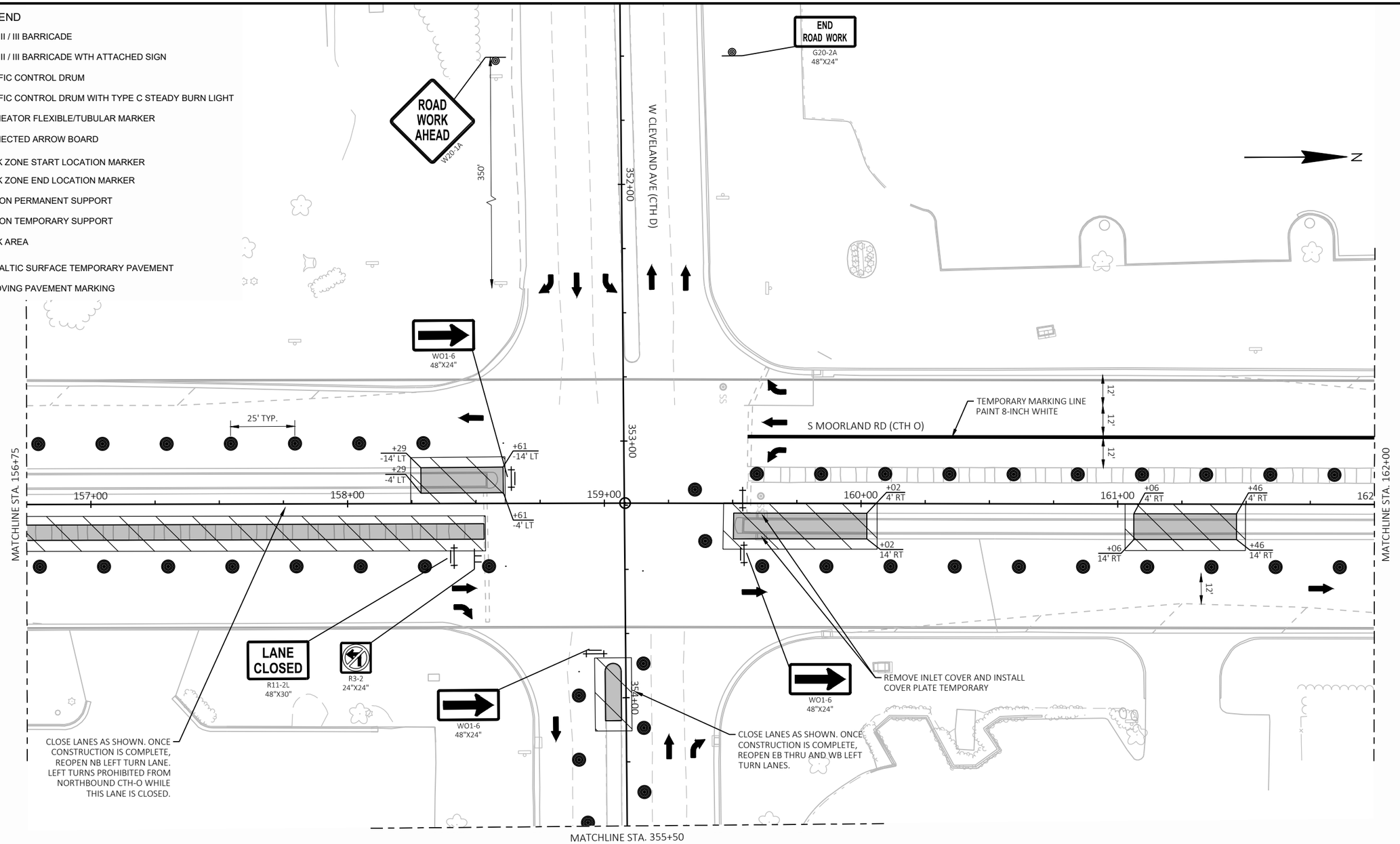
PLOT DATE : 7/23/2026 3:01 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 262	E

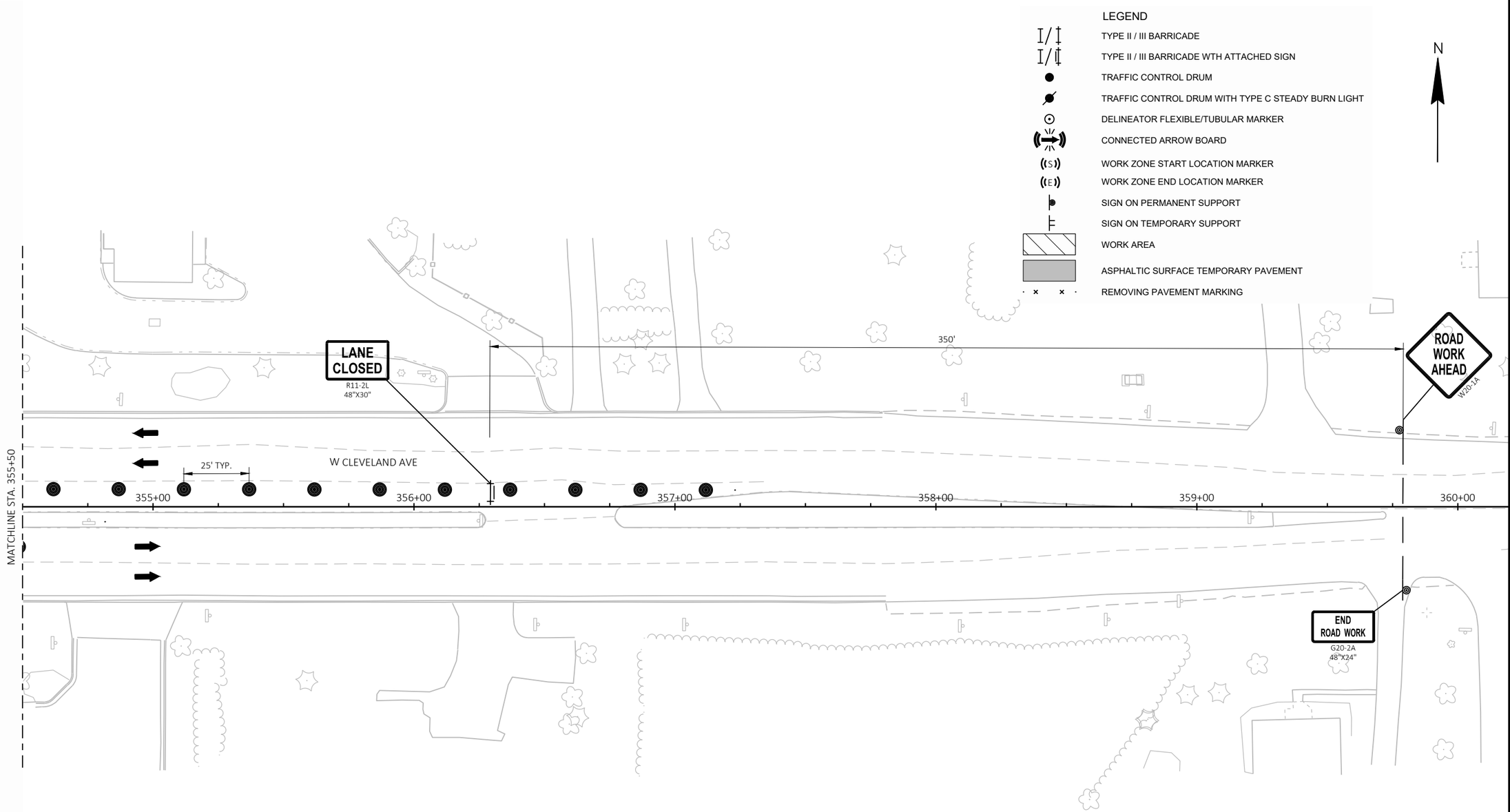
2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 263	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025104a-tc

PLOT DATE : 7/23/2026 3:02 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

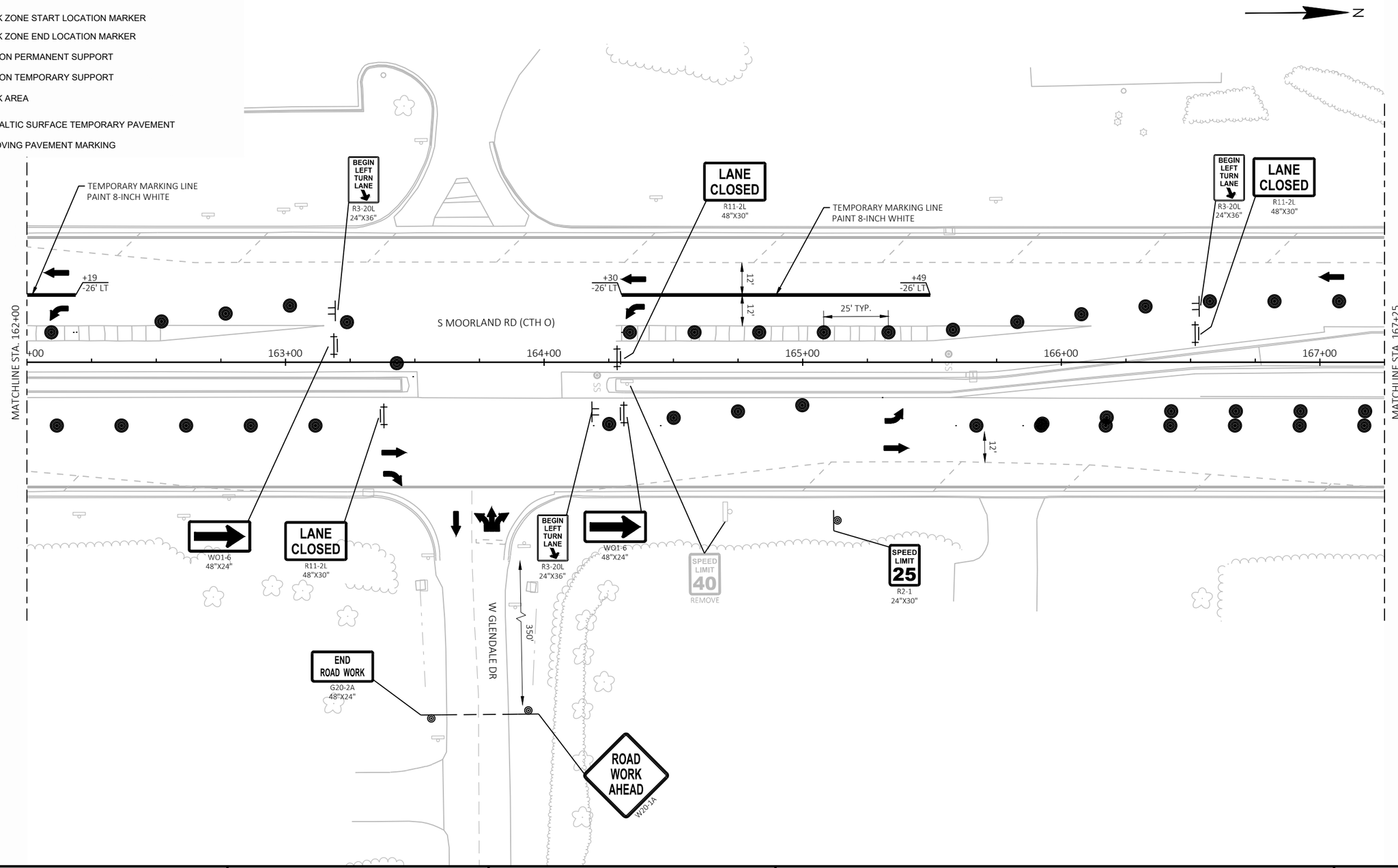
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 264	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025105-tc

PLOT DATE : 7/23/2026 3:02 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

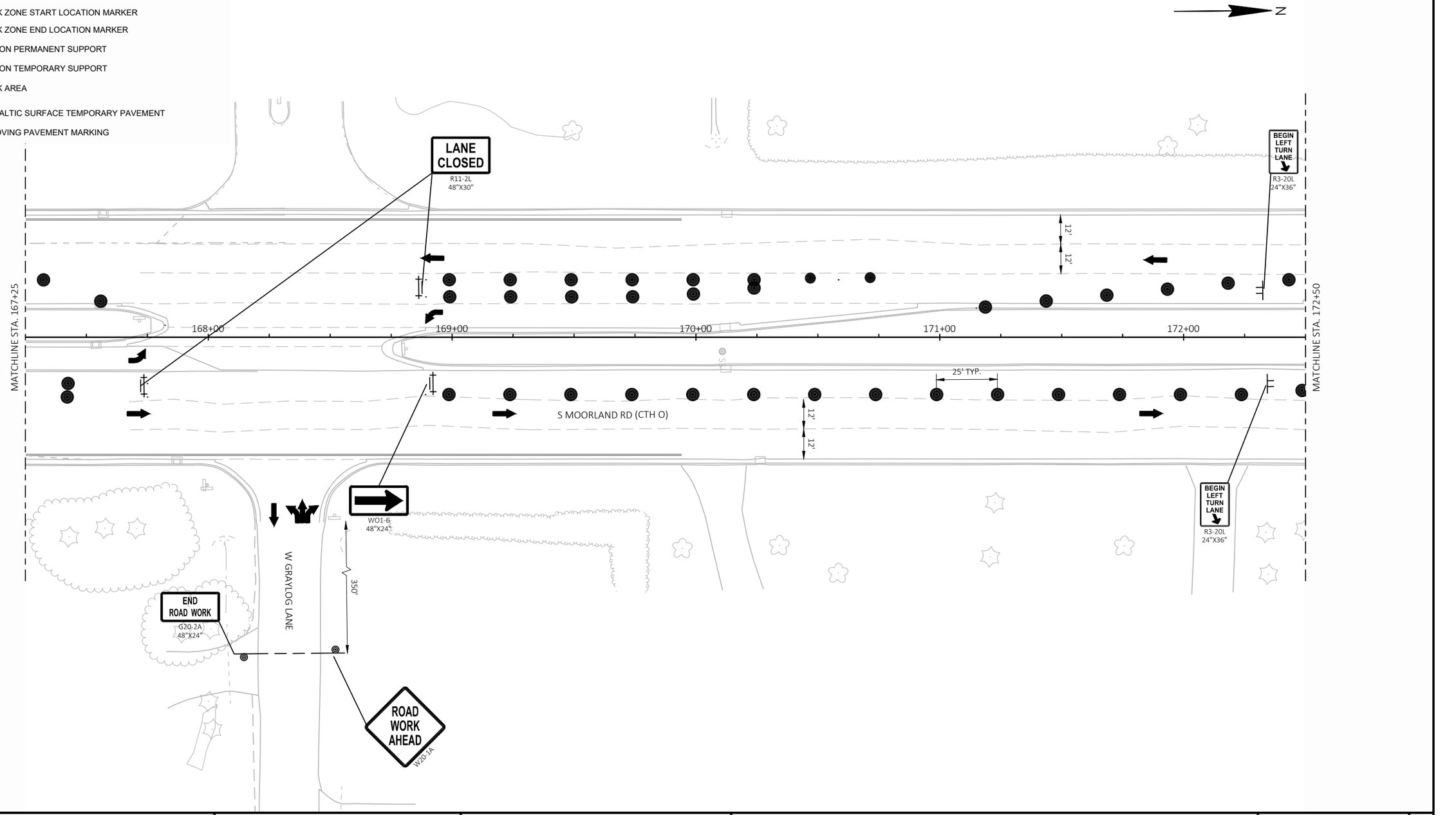
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 265	E

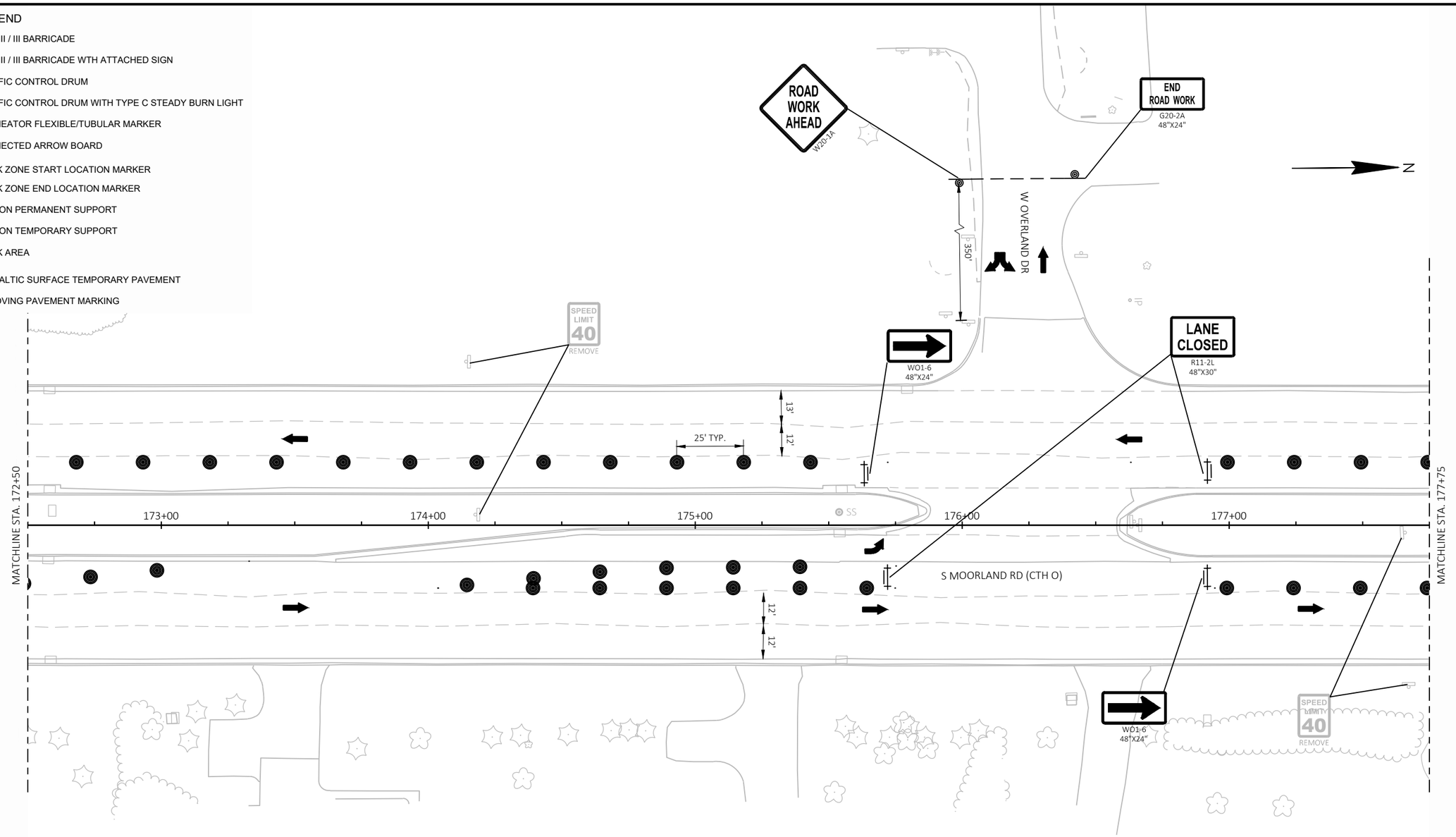
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LAYOUT NAME - 025106-tc

PLOT DATE : 7/23/2026 3:02 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



2

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 266	E

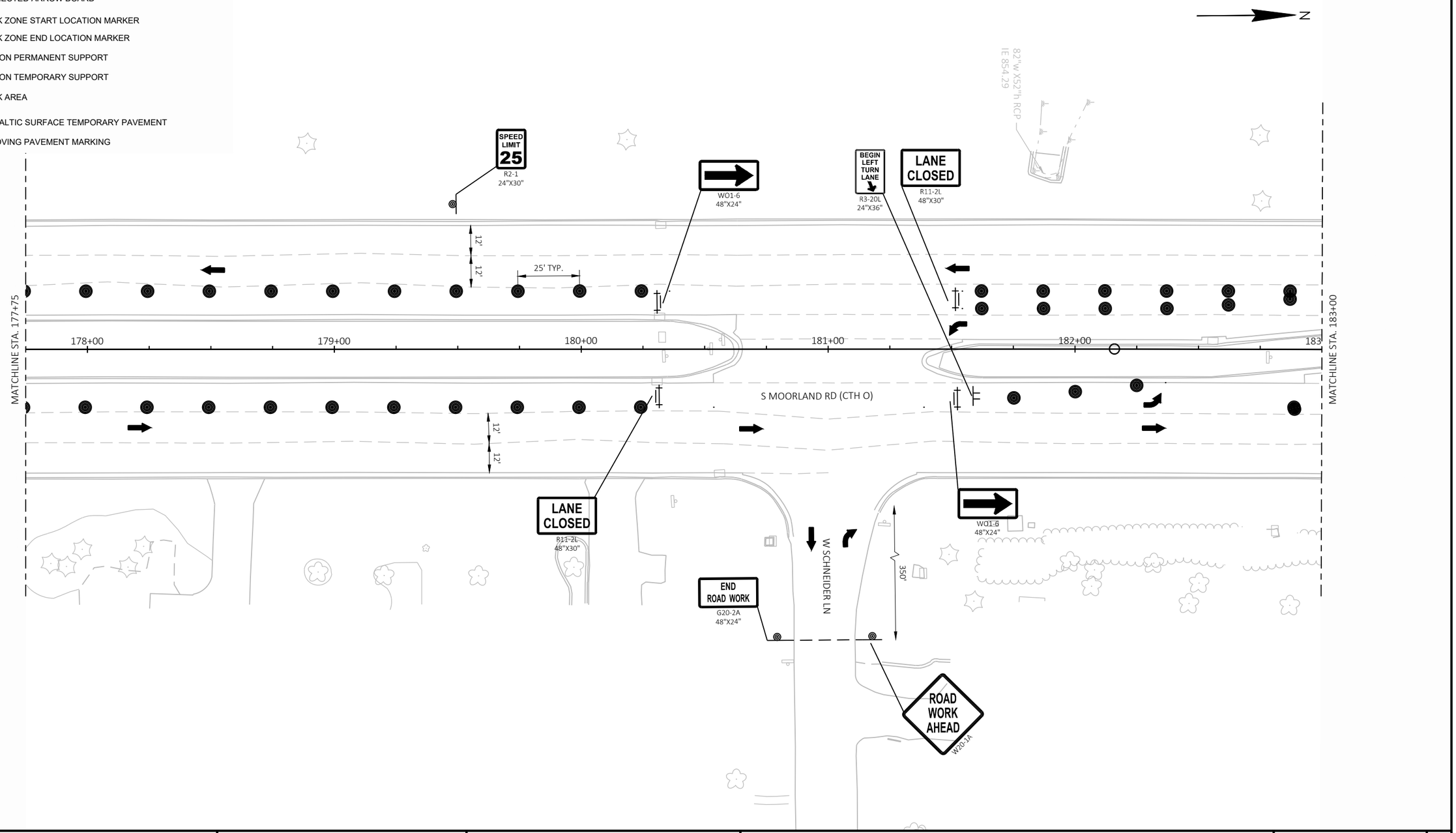
FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025107-tc

PLOT DATE : 7/23/2026 3:02 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 267	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025108-tc

PLOT DATE : 7/23/2026 3:02 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

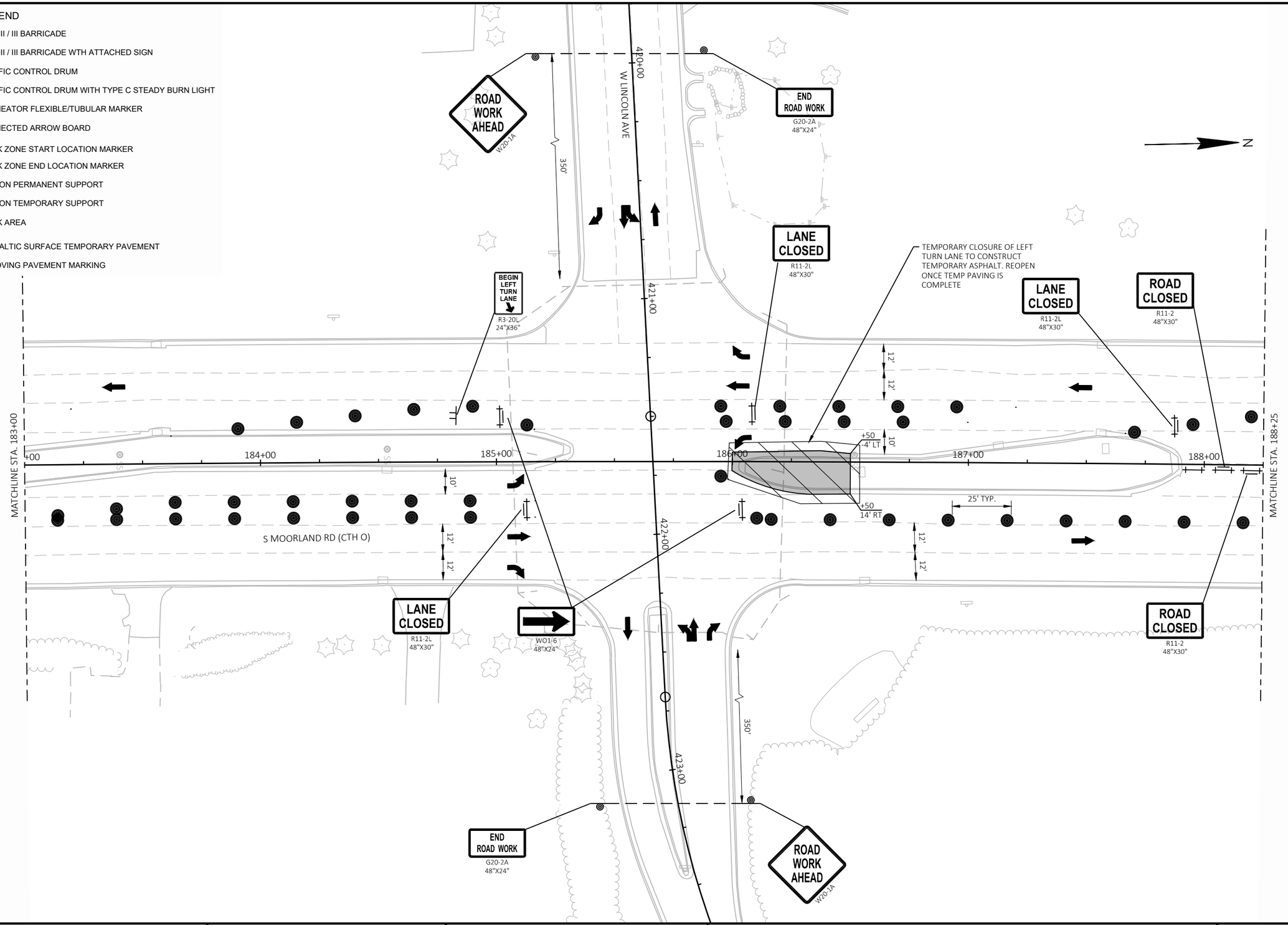
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 268	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025109-tc

PLOT DATE : 7/23/2026 3:02 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

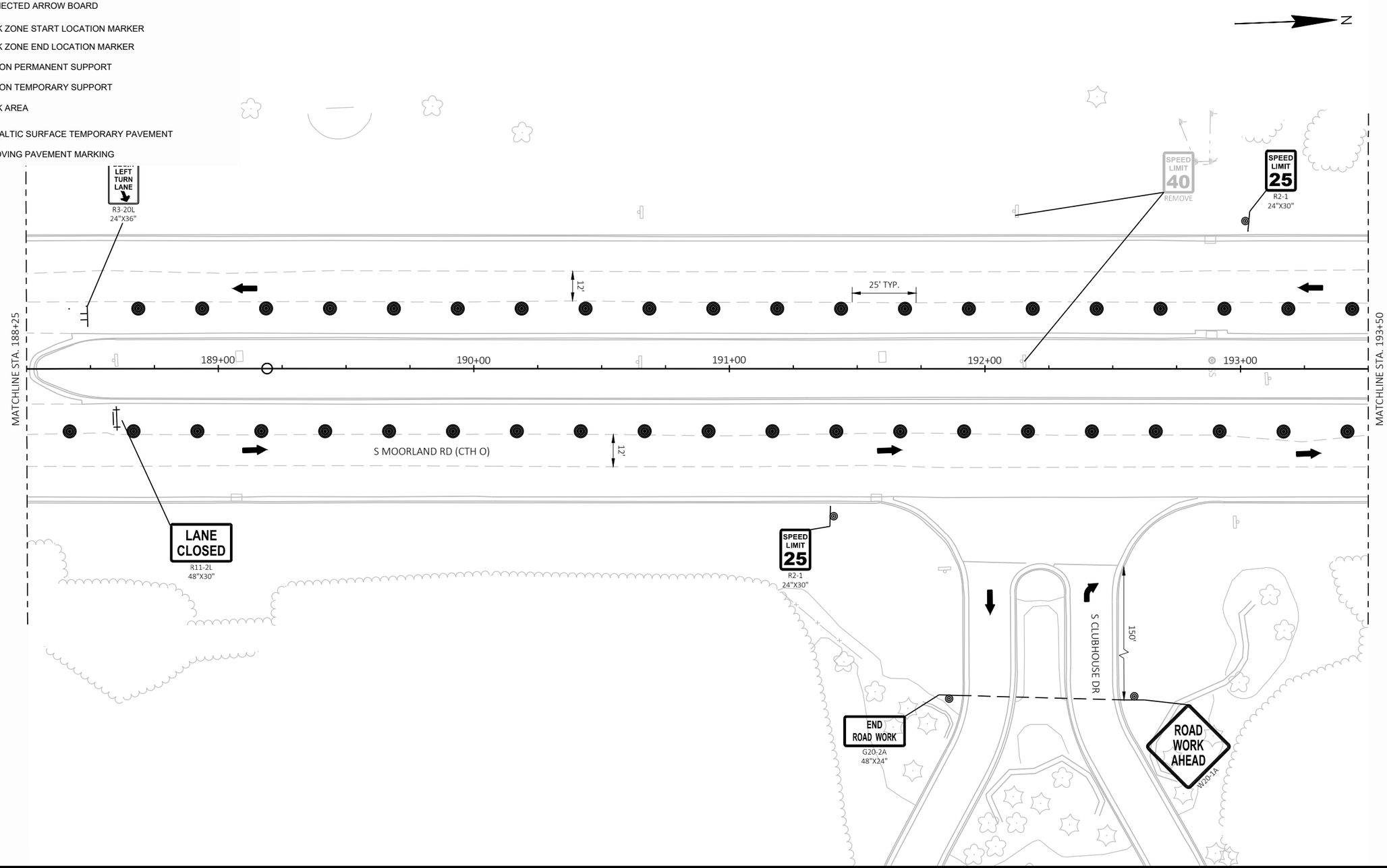
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 269	E

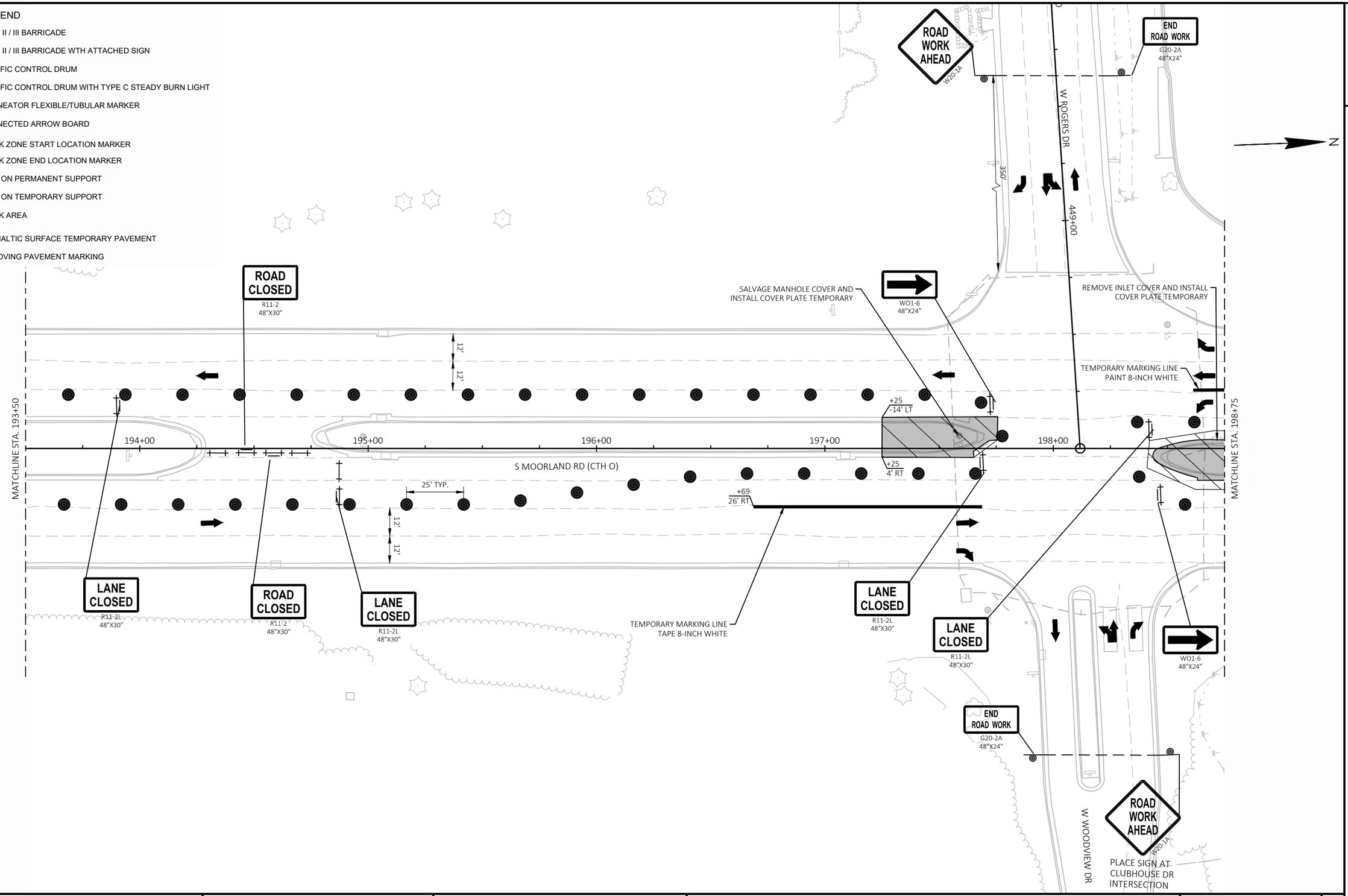
FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025110-tc

PLOT DATE : 7/23/2026 3:02 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



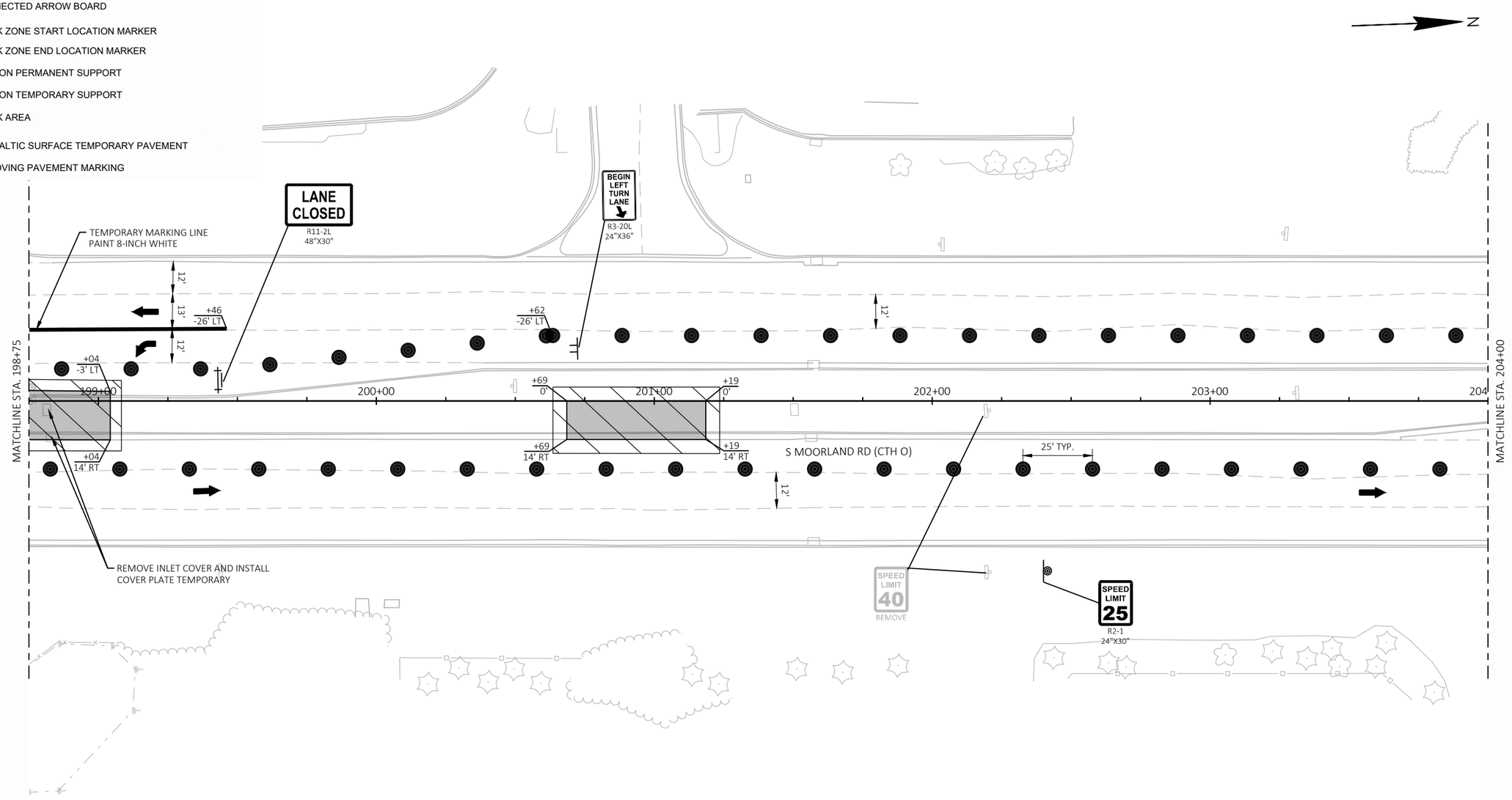
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 270	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025111-tc

PLOT DATE : 7/23/2026 3:02 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



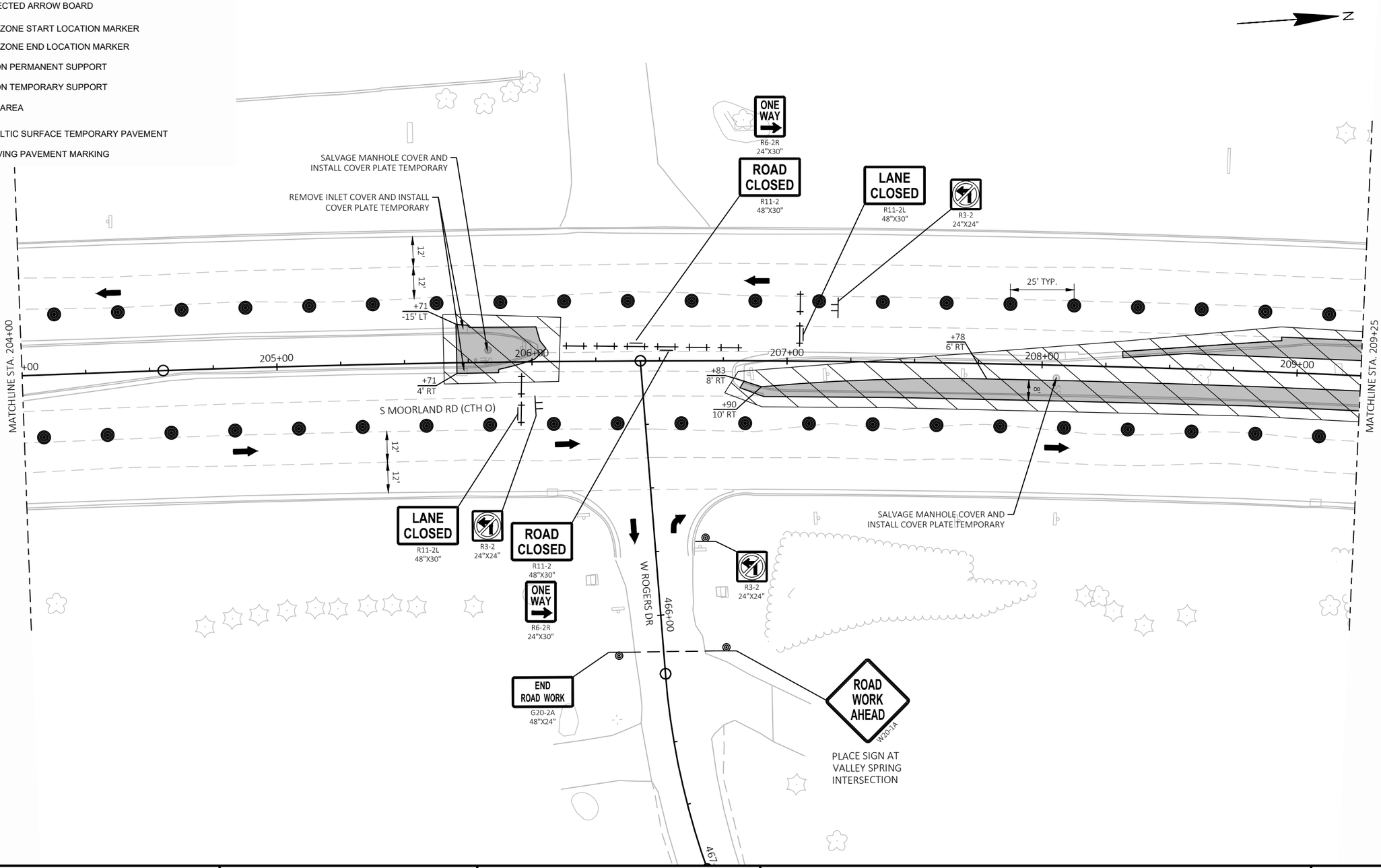
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 271	E

2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 272	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025113-tc

PLOT DATE : 7/23/2026 3:02 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

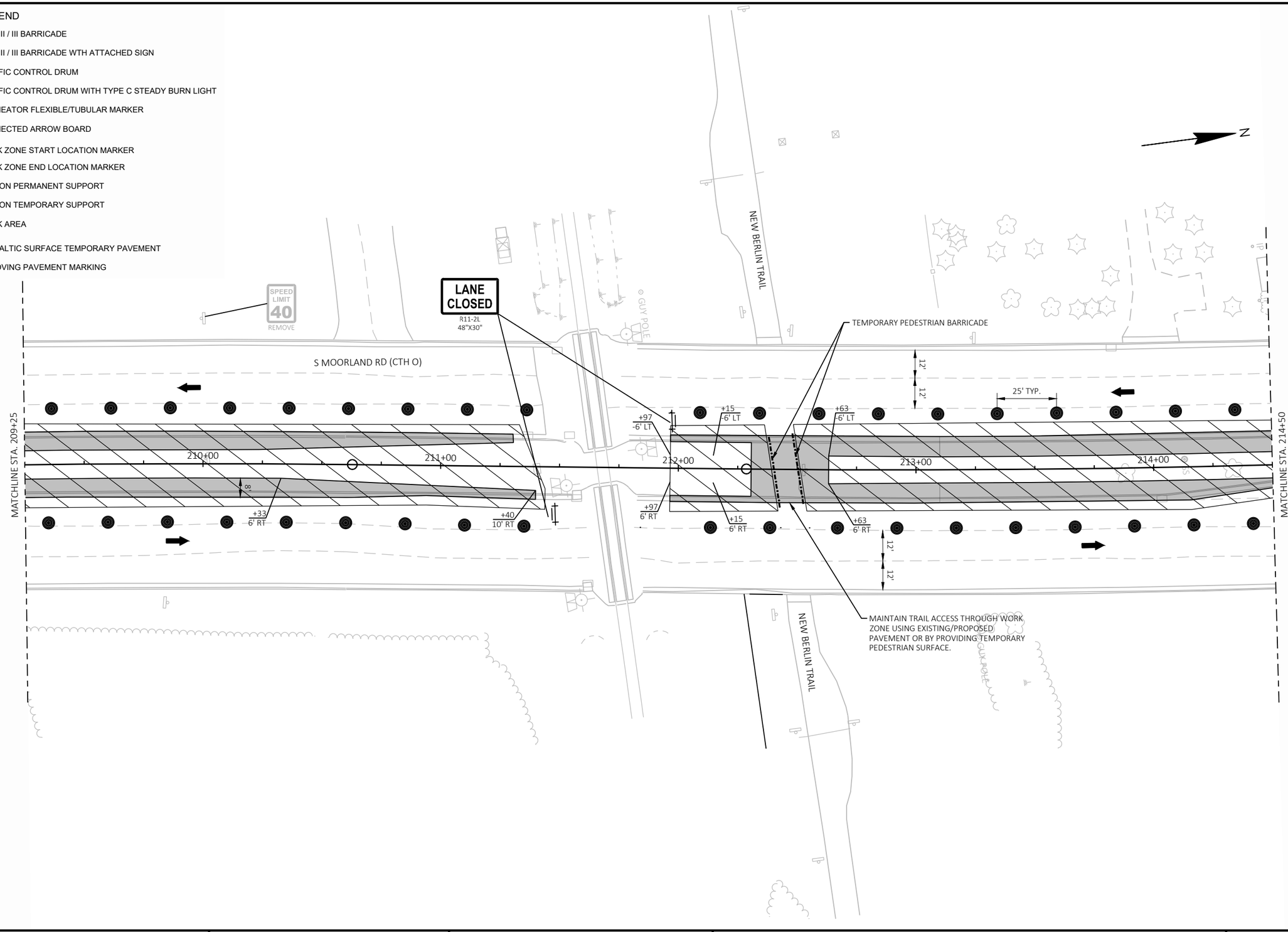
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 273	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025114-tc

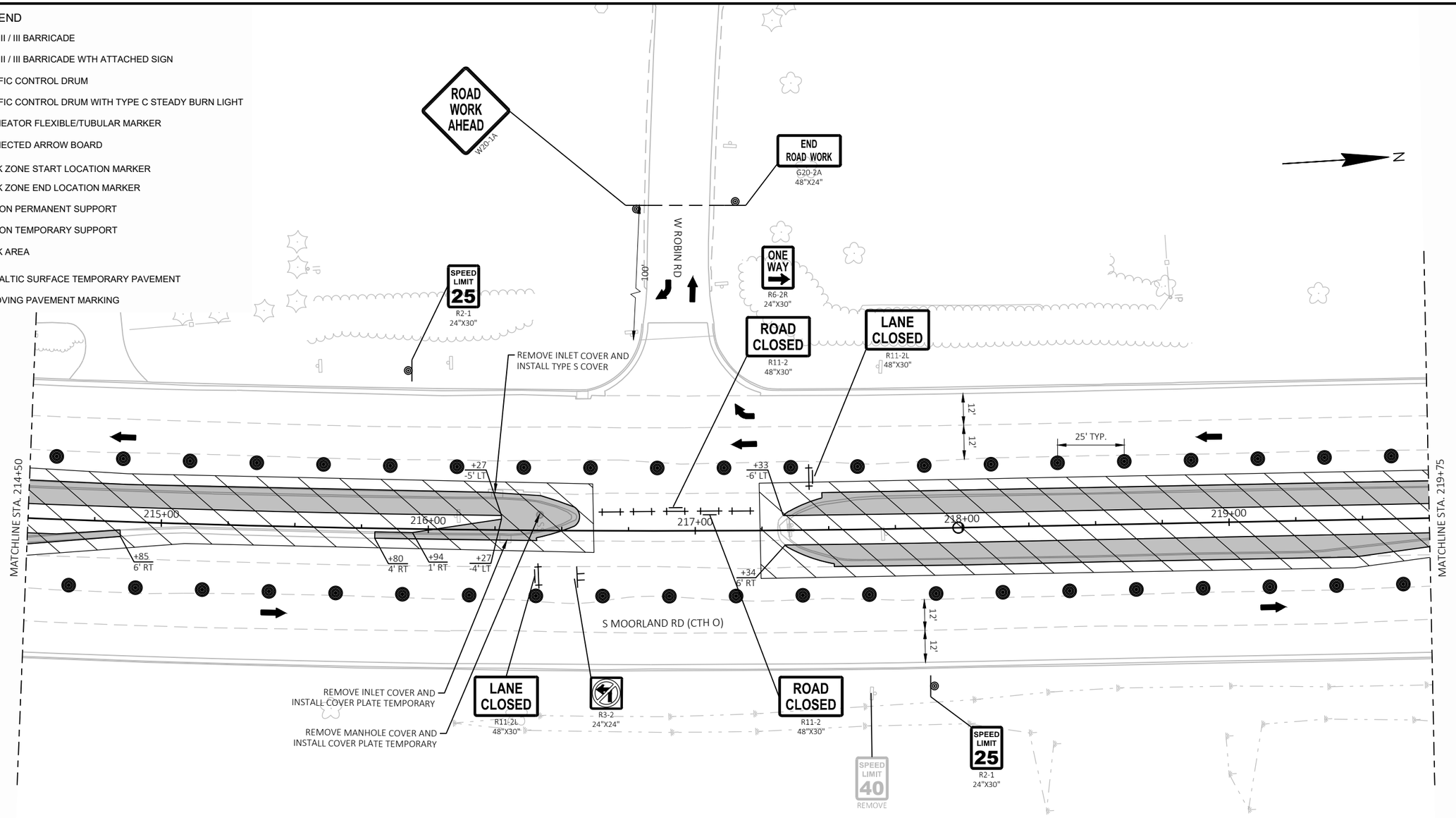
PLOT DATE : 7/23/2026 3:03 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 274	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025115-tc

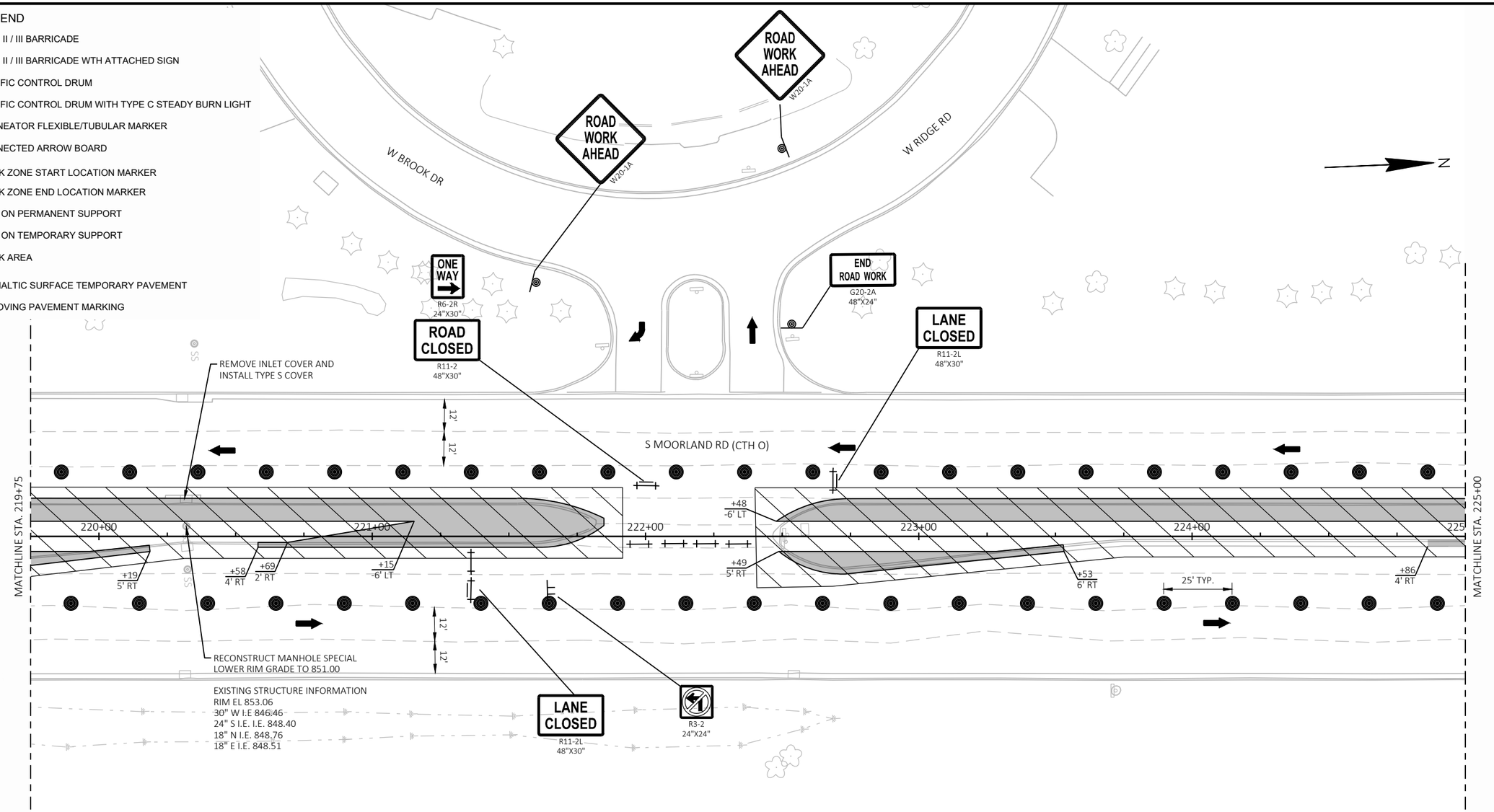
PLOT DATE : 7/23/2026 3:03 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



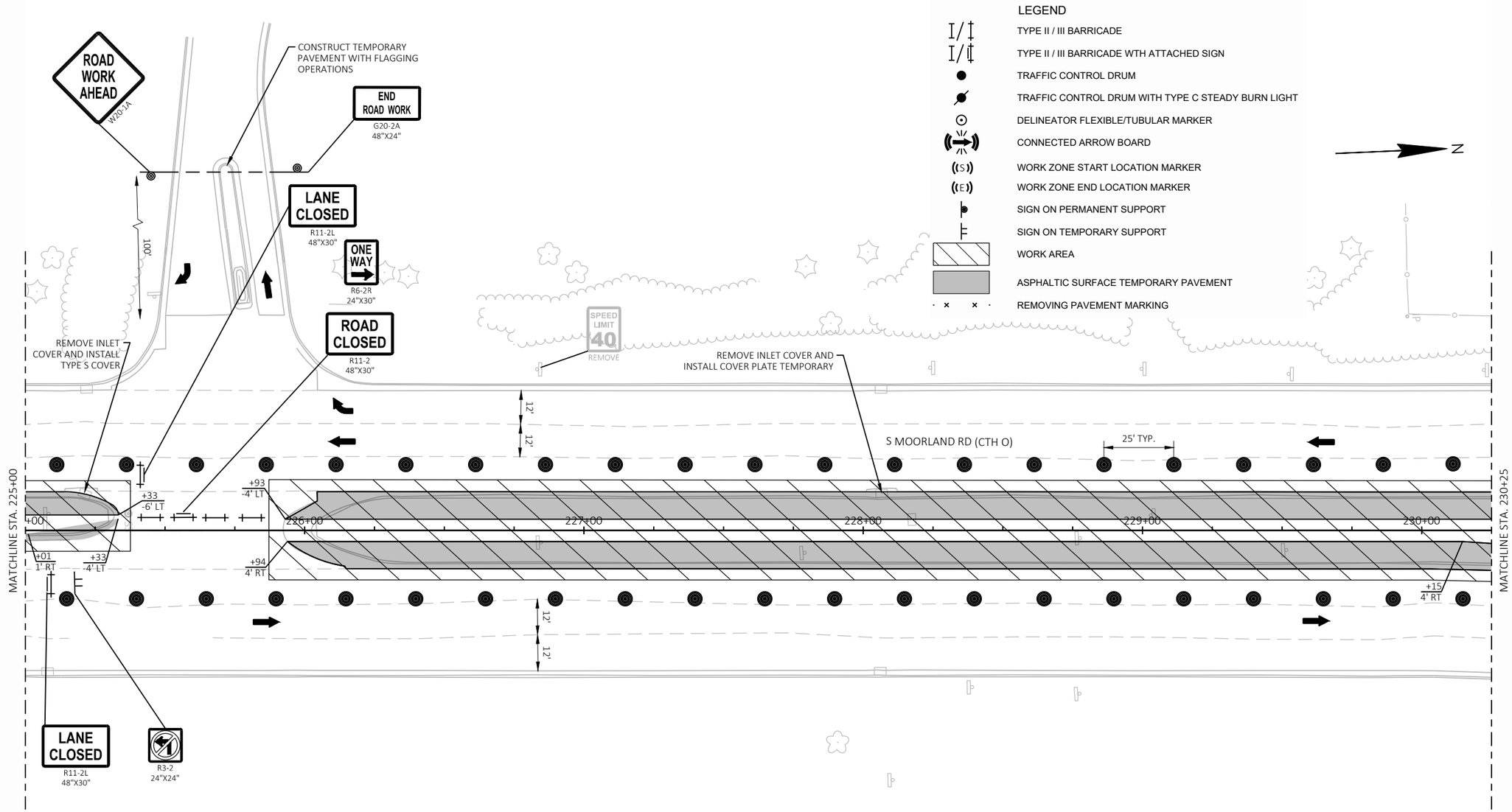
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 275	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025116-tc

PLOT DATE : 7/23/2026 3:03 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 276	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025117-tc

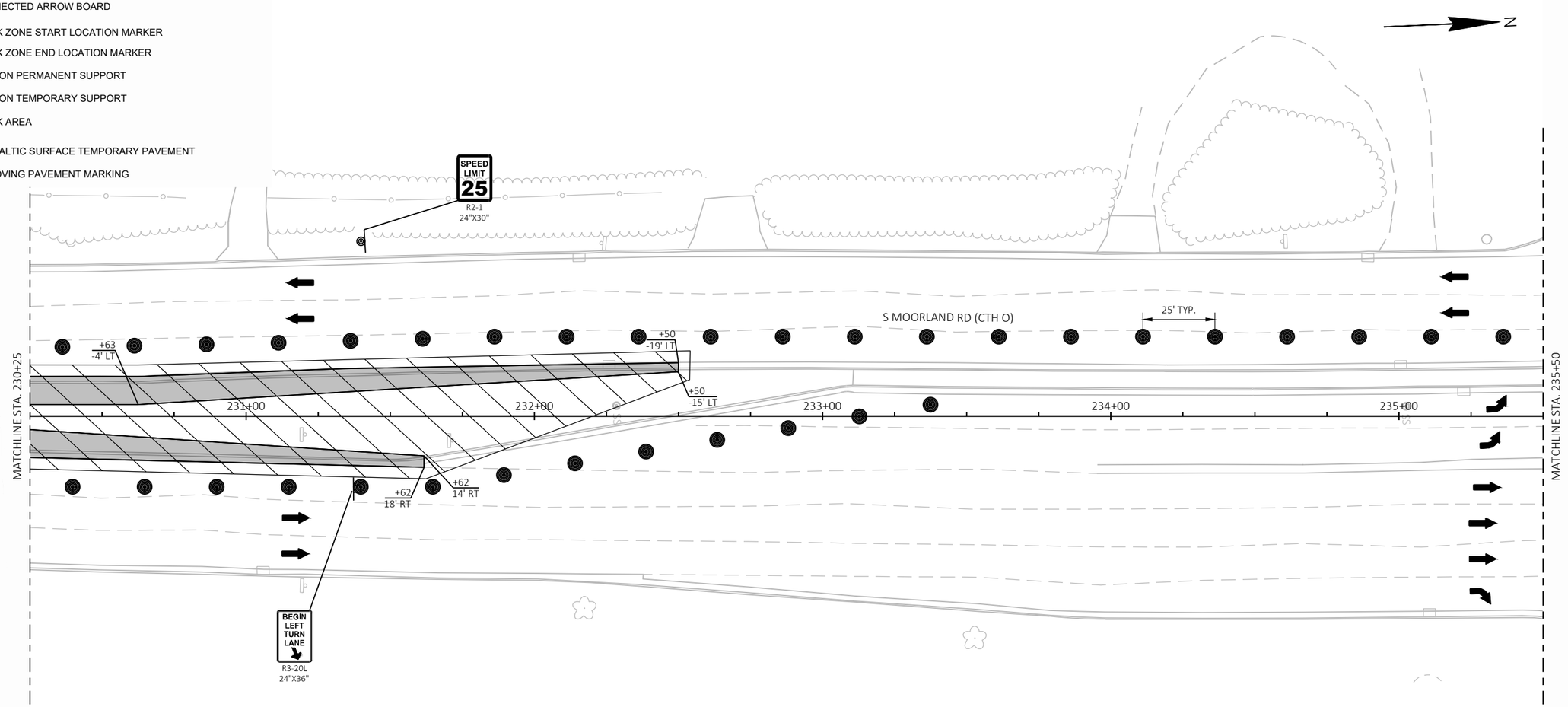
PLOT DATE : 7/23/2026 3:03 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

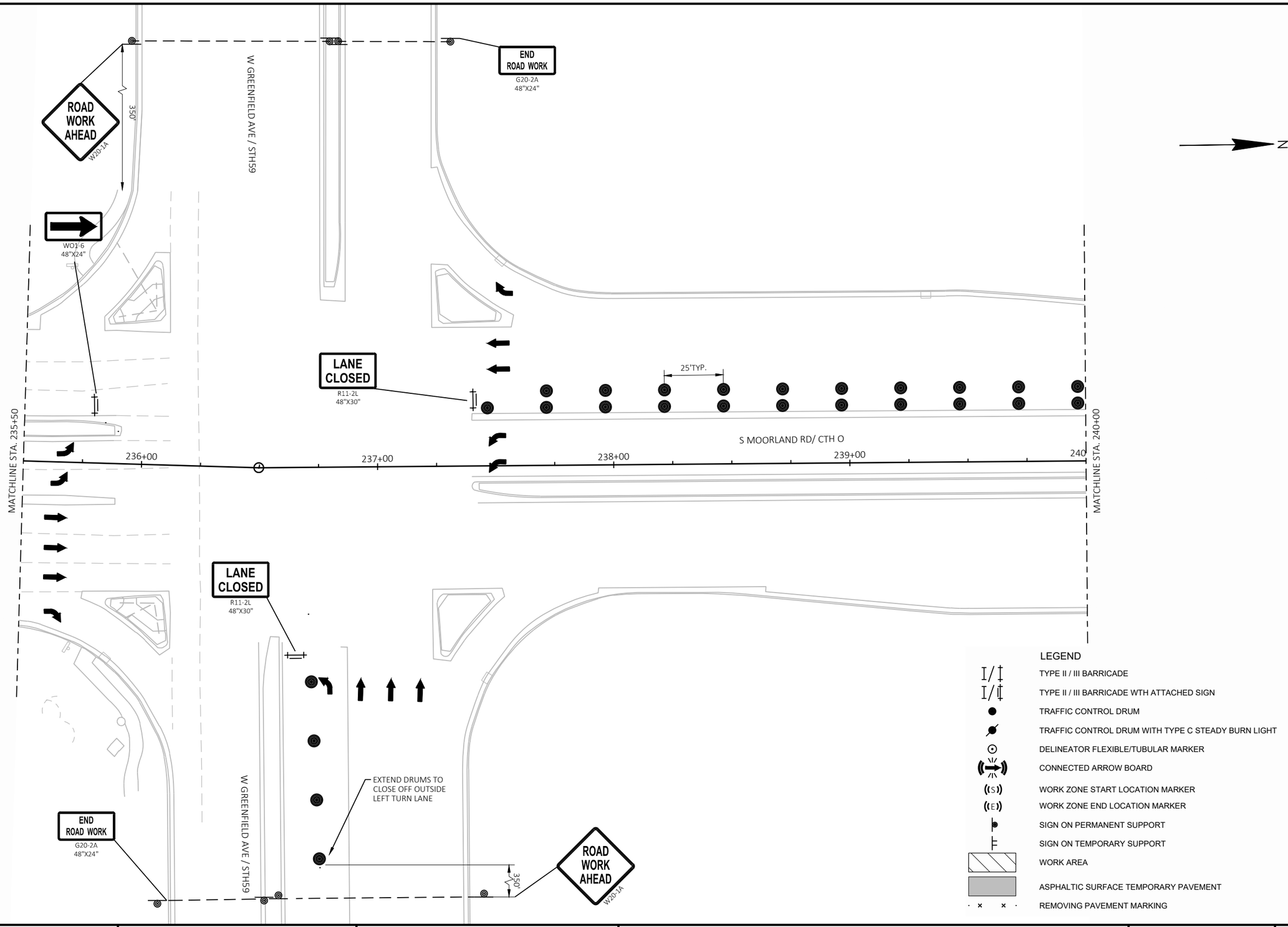
- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 277	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025118-tc
PLOT DATE : 7/23/2026 3:03 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

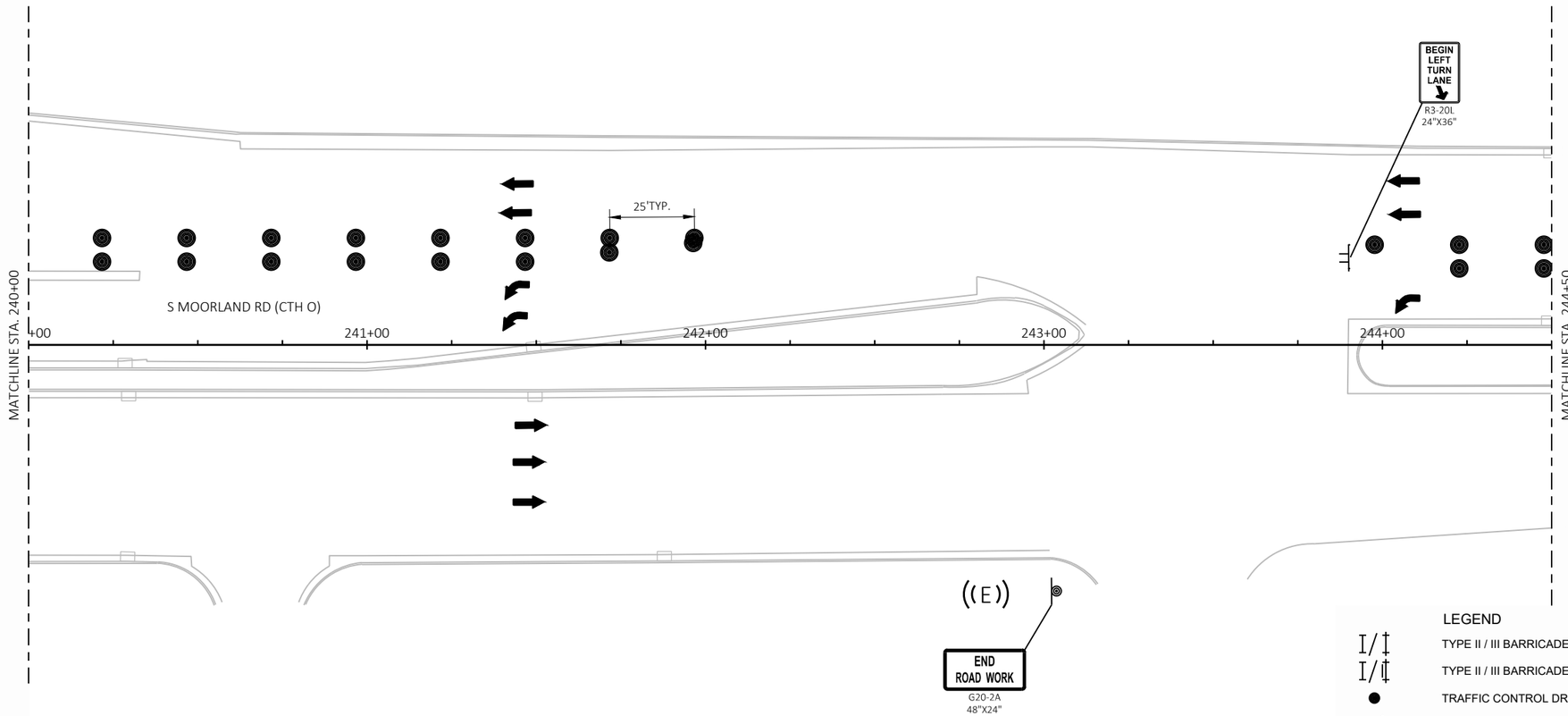
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 278	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025119-tc
PLOT DATE : 7/23/2026 3:03 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

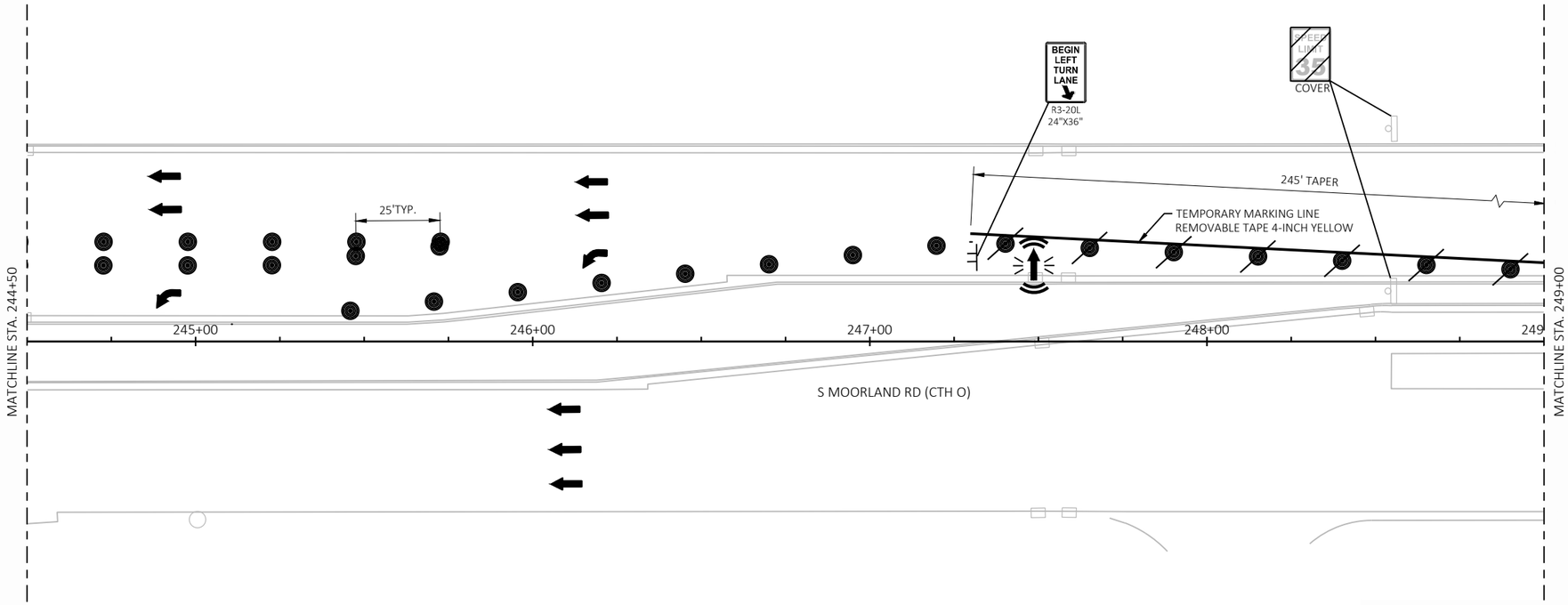
- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- (S) WORK ZONE START LOCATION MARKER
- (E) WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 279	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025120-tc
PLOT DATE : 7/23/2026 3:03 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N



LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING

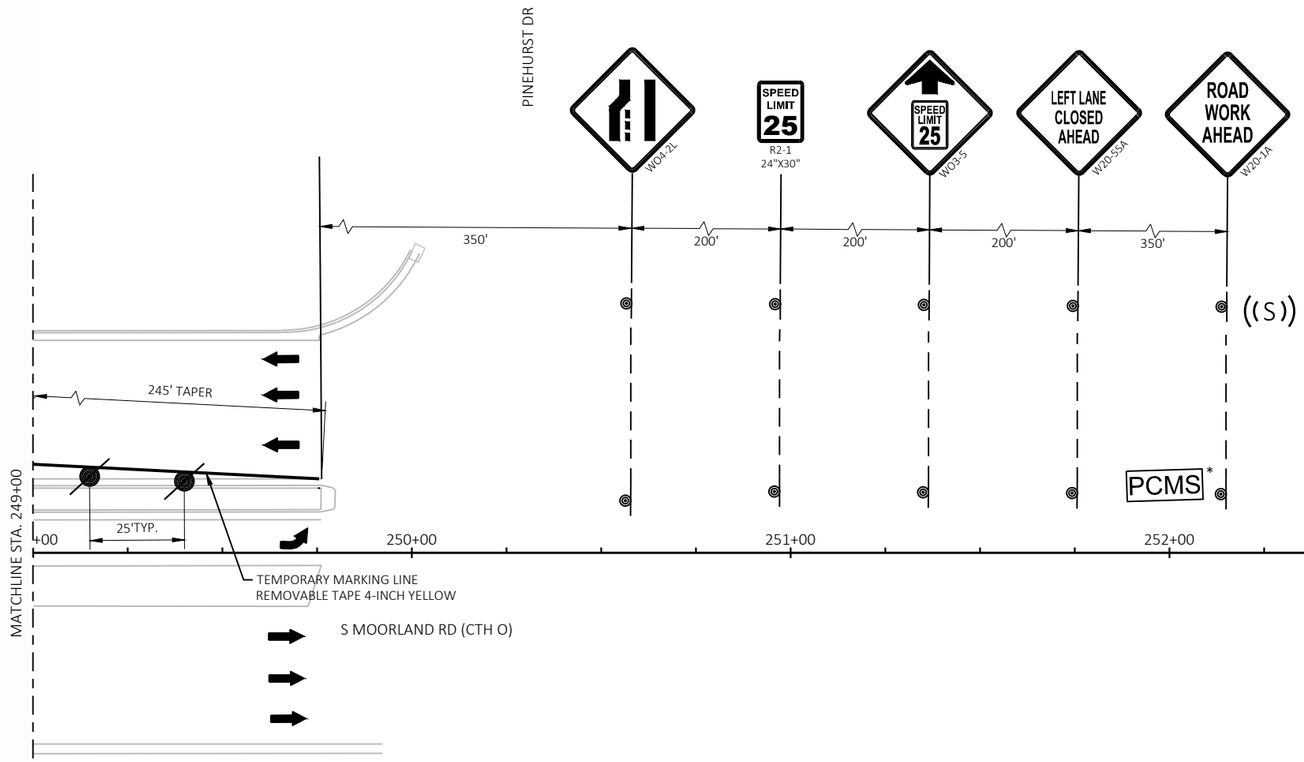
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 280	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_PRESTAGE.DWG
LAYOUT NAME - 025121-tc

PLOT DATE : 7/23/2026 3:03 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- REMOVING PAVEMENT MARKING

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - PRESTAGE	SHEET 281	E

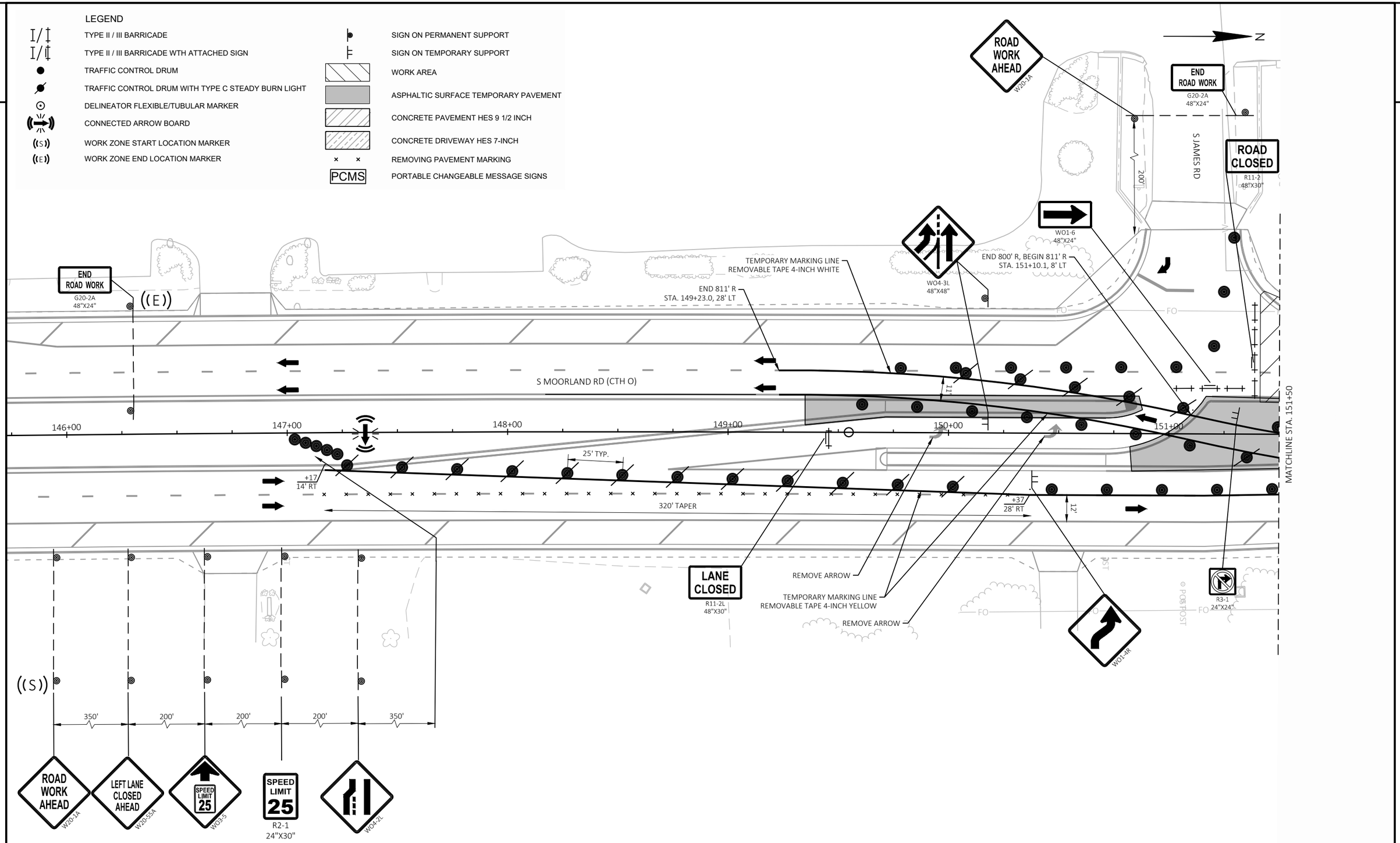
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LAYOUT NAME - 025122-tc

PLOT DATE : 7/23/2026 3:03 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 282	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1A.DWG
LAYOUT NAME - 025102-tc

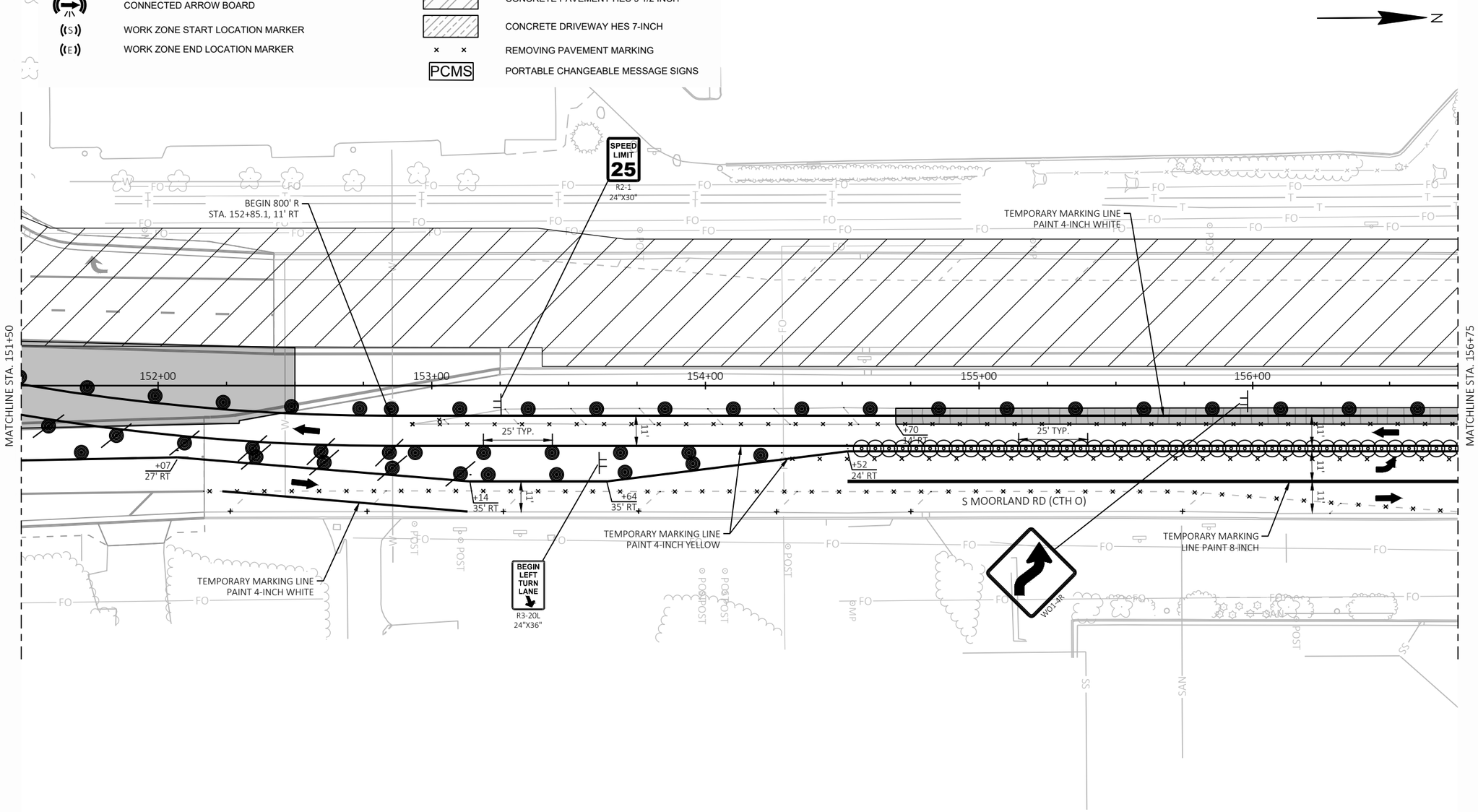
PLOT DATE : 7/23/2026 3:03 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 283 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1A.DWG
LAYOUT NAME - 025103-tc

PLOT DATE : 7/23/2026 3:04 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

352+00

353+00

354+00

355+00

TEMPORARY MARKING
LINE PAINT 4-INCH WHITE

+49
37' RT

+74
30' LT

ROAD
CLOSED
R11-2
48"X30"

REMOVE ARROW

R85'

R65'

157+00

158+00

159+00

160+00

161+00

162

25' TYP.

MATCHLINE STA. 156+75

MATCHLINE STA. 162+00

+85
11' RT

+21
24' RT

+21
35' RT

W01-6
48"X24"

+02
14' RT

+02
26' RT

+02
36' RT

S MOORLAND RD (CTH O)

12'

10'

12'

REMOVE WORD

REMOVE ARROW

TEMPORARY MARKING LINE
PAINT 4-INCH YELLOW

TEMPORARY MARKING
LINE PAINT 8-INCH

W6-4
12"X18"

REMOVE WORD

REMOVE ARROW

TEMPORARY MARKING
STOP LINE PAINT 18-INCH

TEMPORARY MARKING
STOP LINE PAINT 18-INCH

W6-4
12"X18"

TEMPORARY MARKING
LINE PAINT 8-INCH

TEMPORARY MARKING LINE
PAINT 4-INCH YELLOW

W CLEVELAND AVE (CTH D)

R5-2
24"X24"

M6-1
21"X21"

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 284	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1A.DWG
LAYOUT NAME - 025104-tc
PLOT DATE : 7/23/2026 3:04 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

R3-1
24"X24"

MATCHLINE STA. 162+00

+00

163+00

164+00

165+00

166+00

167+00

MATCHLINE STA. 167+25

+86
26' RT

+86
36' RT

25' TYP.

12'

12'

S MOORLAND RD (CTH O)

+61
38' RT

+52
28' RT

+52
38' RT

TEMPORARY MARKING
LINE PAINT 8-INCH

TEMPORARY MARKING LINE
PAINT 4-INCH YELLOW

TEMPORARY MARKING
LINE PAINT 8-INCH

BEGIN
LEFT
TURN
LANE
R3-20L
24"X36"

BEGIN
LEFT
TURN
LANE
R3-20L
24"X36"

SPEED
LIMIT
25
R2-1
24"X30"

R3-2
24"X24"

W GLENDALE DR

100'

END
ROAD WORK
G20-2A
48"X24"

ROAD
WORK
AHEAD
W20-1A

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 285	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1A.DWG
LAYOUT NAME - 025105-tc

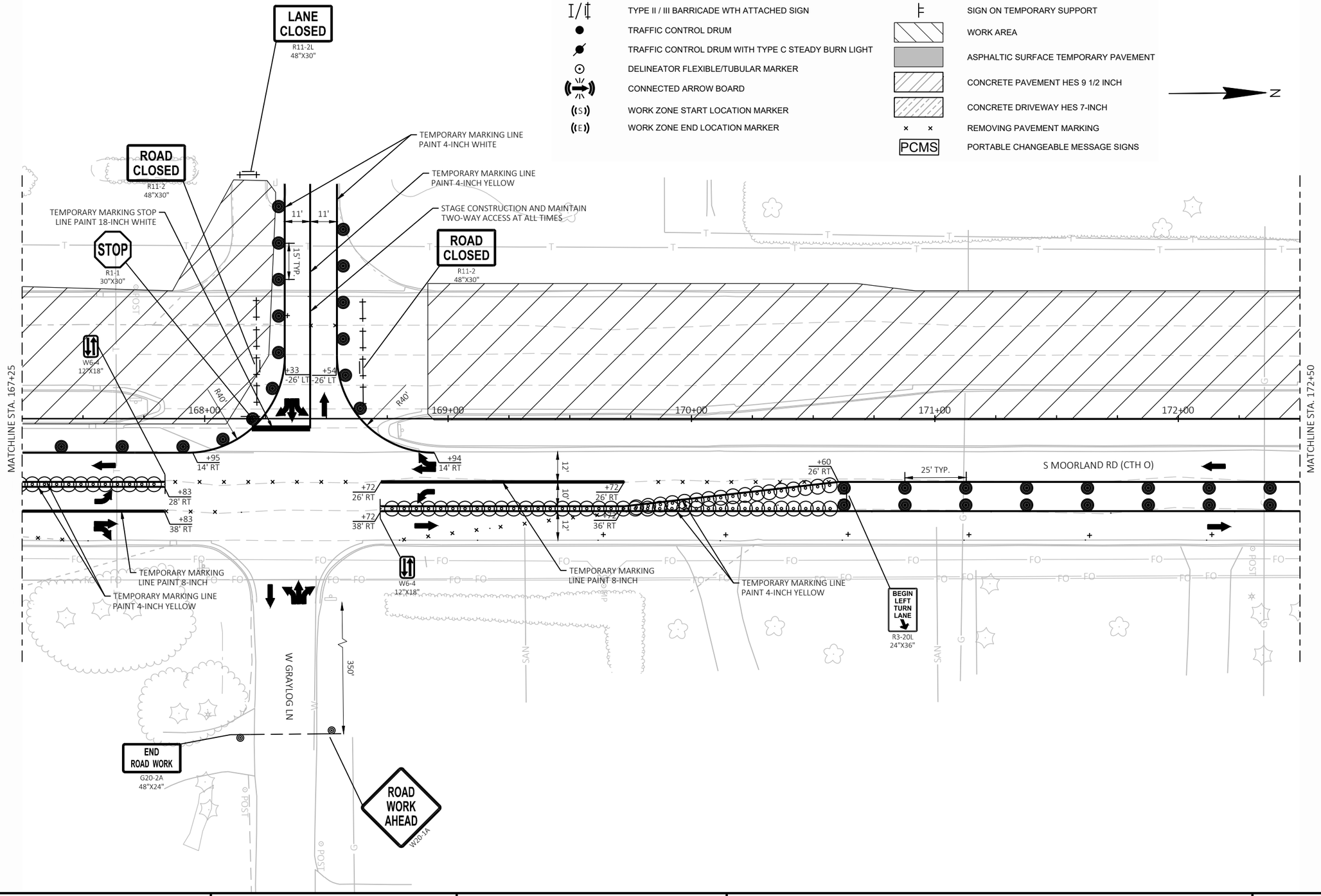
PLOT DATE : 7/23/2026 3:04 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- (S) WORK ZONE START LOCATION MARKER
- (E) WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS PORTABLE CHANGEABLE MESSAGE SIGNS

N

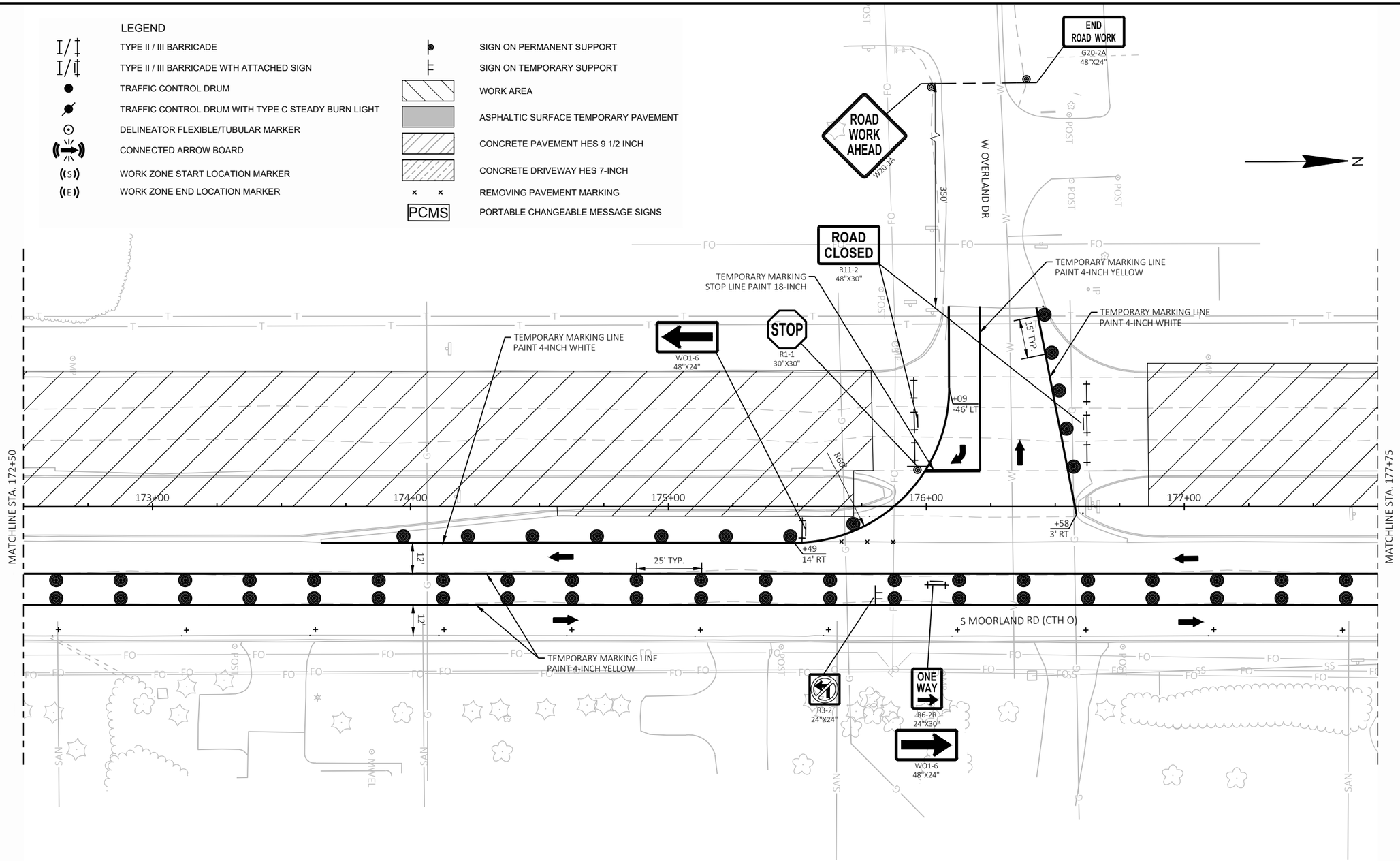


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 286	E

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 287	E

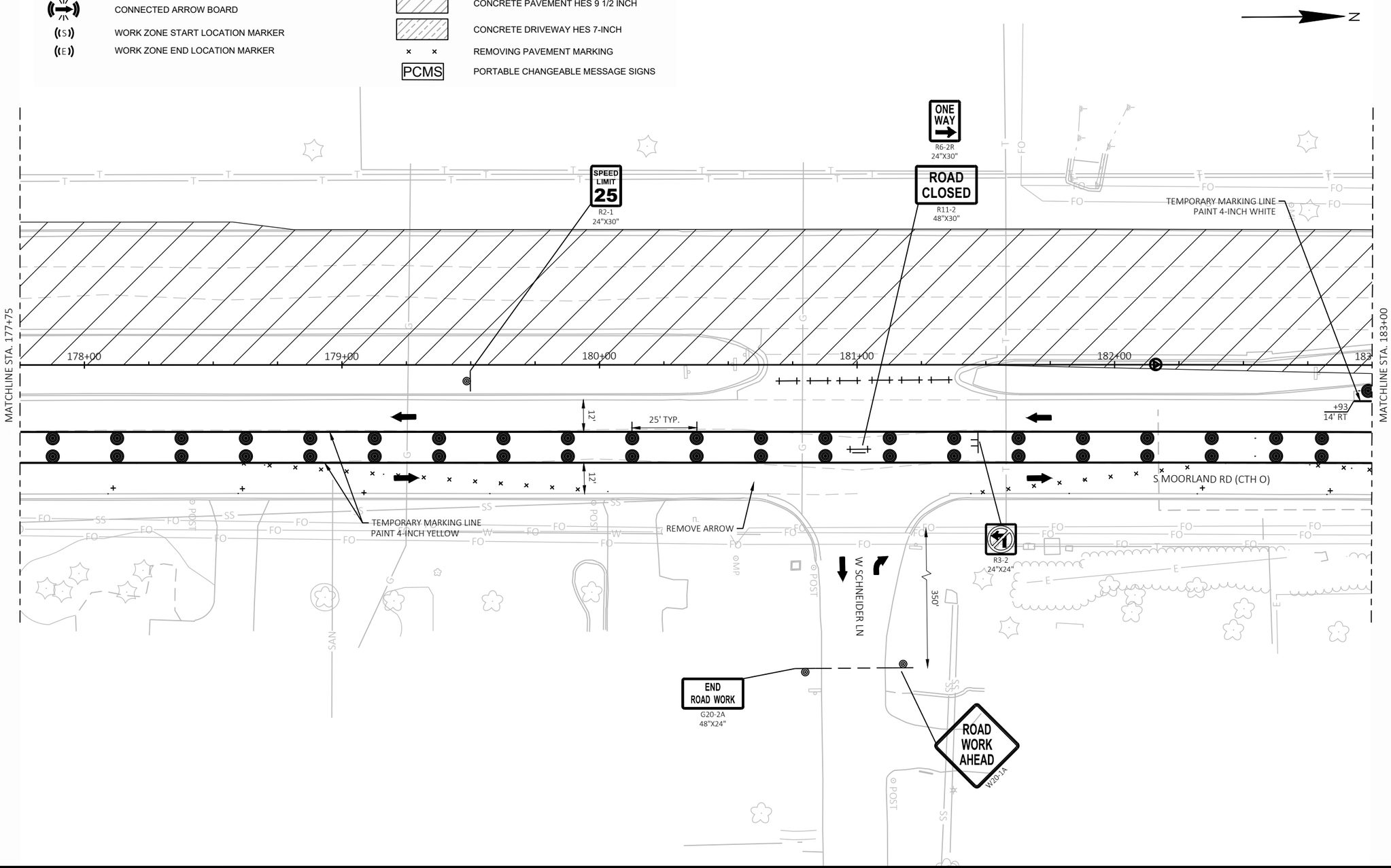
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LAYOUT NAME - 025107-tc

PLOT DATE : 7/23/2026 3:04 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

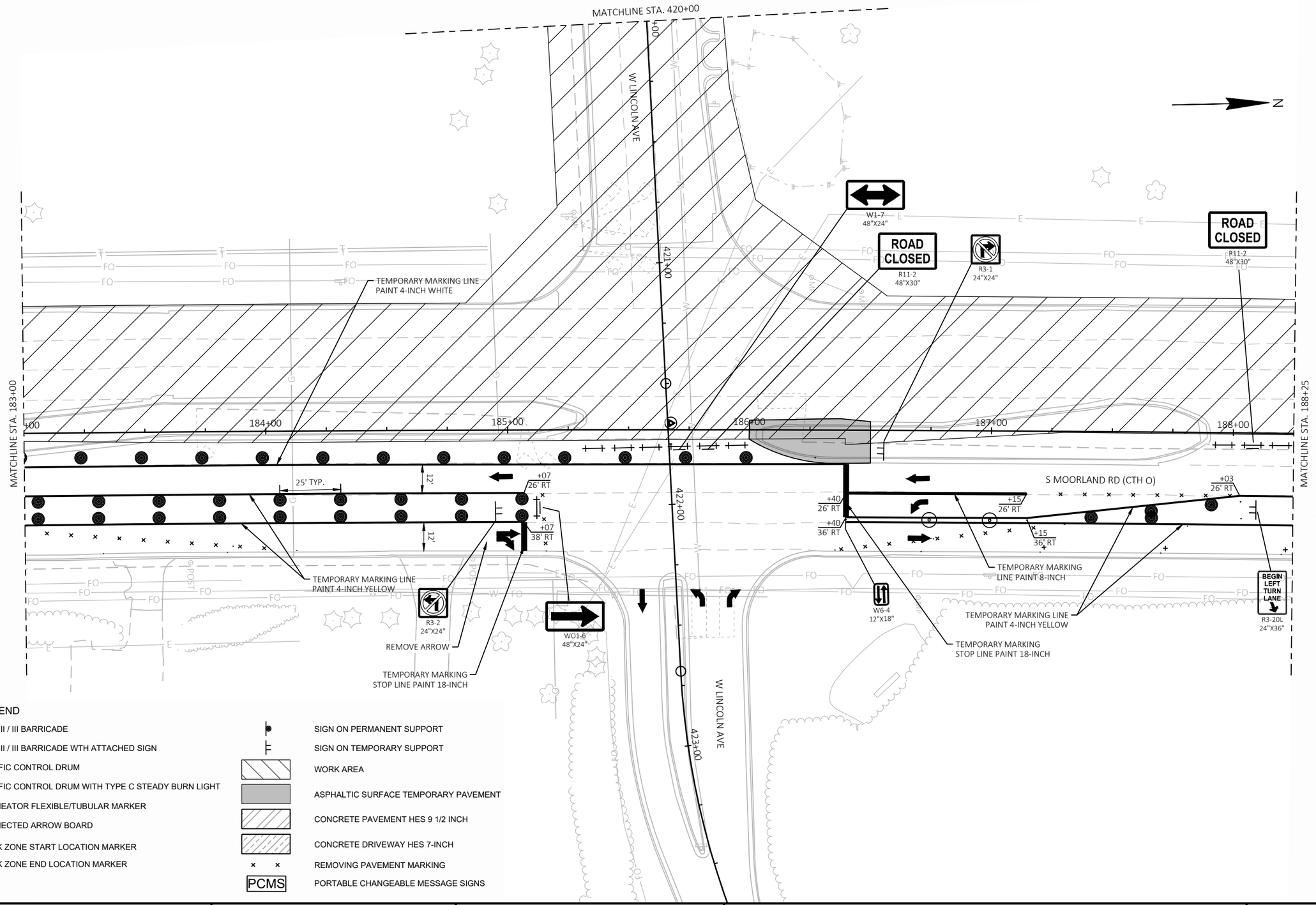
- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 288	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1A.DWG
LAYOUT NAME - 025108-tc
PLOT DATE : 7/23/2026 3:04 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 289	E

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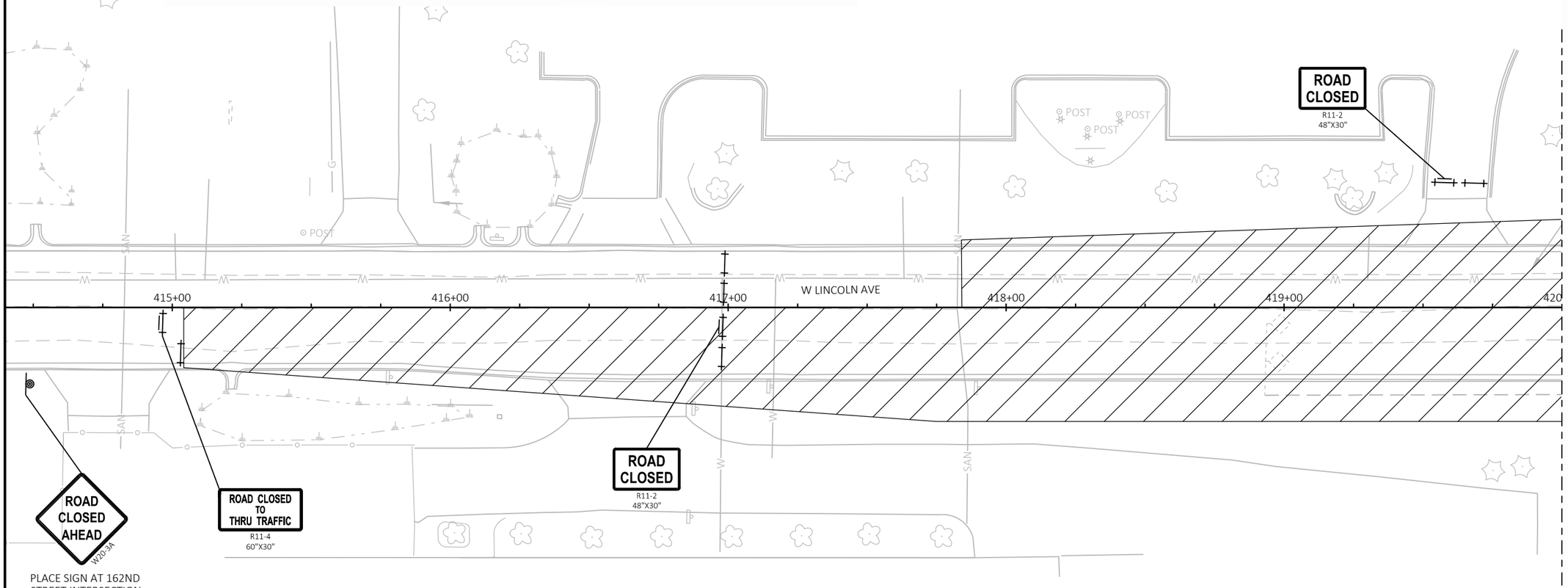
PLOT DATE : 7/23/2026 3:04 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS

N



PLACE SIGN AT 162ND STREET INTERSECTION

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 290	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1A.DWG
LAYOUT NAME - 025109a-tc

PLOT DATE : 7/23/2026 3:04 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N

MATCHLINE STA. 188+25

189+00 190+00 191+00 192+00 193+00

MATCHLINE STA. 193+50

SPEED LIMIT 25
R2-1
24"X30"

25' TYP.

12'

12'

S MOORLAND RD (CTH O)

TEMPORARY MARKING LINE
PAINT 4-INCH YELLOW

SPEED LIMIT 25
R2-1
24"X30"

ONE WAY
R6-2R
24"X30"

R3-2
24"X24"

ROAD CLOSED
R11-2
48"X30"

150'

S CLUB HOUSE DR

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 291	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1A.DWG
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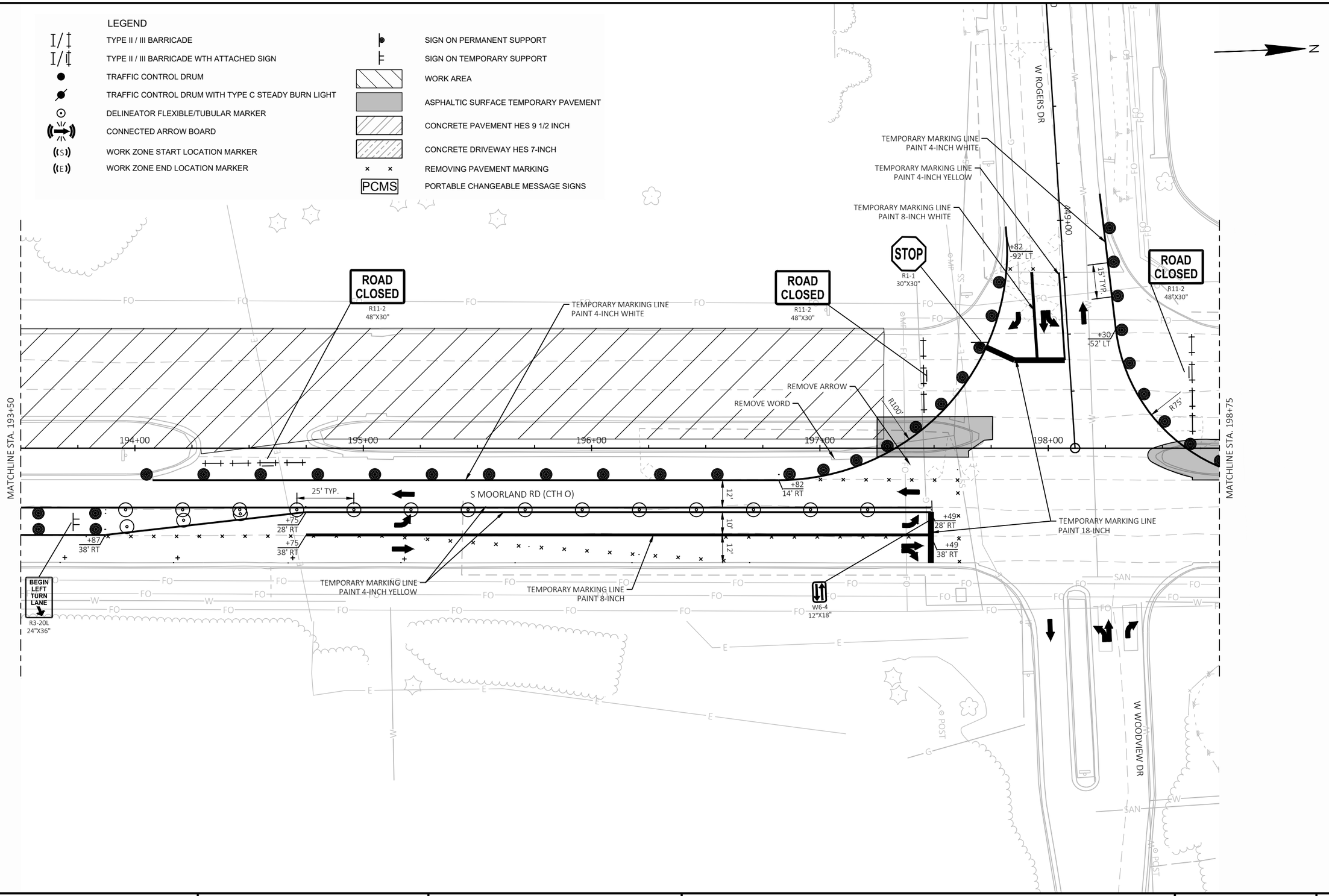
PLOT DATE : 7/23/2026 3:04 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 292	E

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PLOT DATE : 7/23/2026 3:04 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

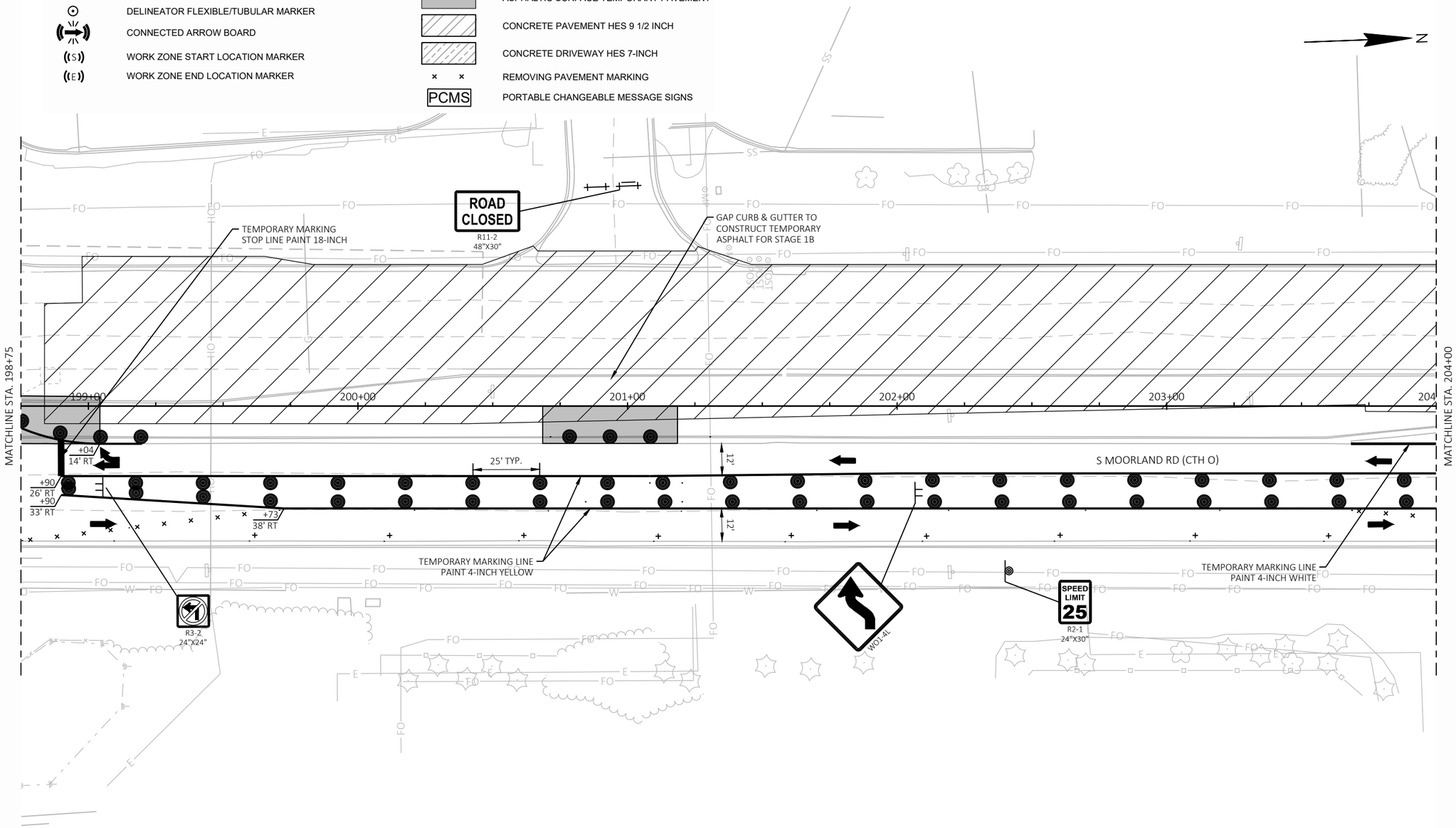
WISDOT/CADDS SHEET 42

2

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 293	E

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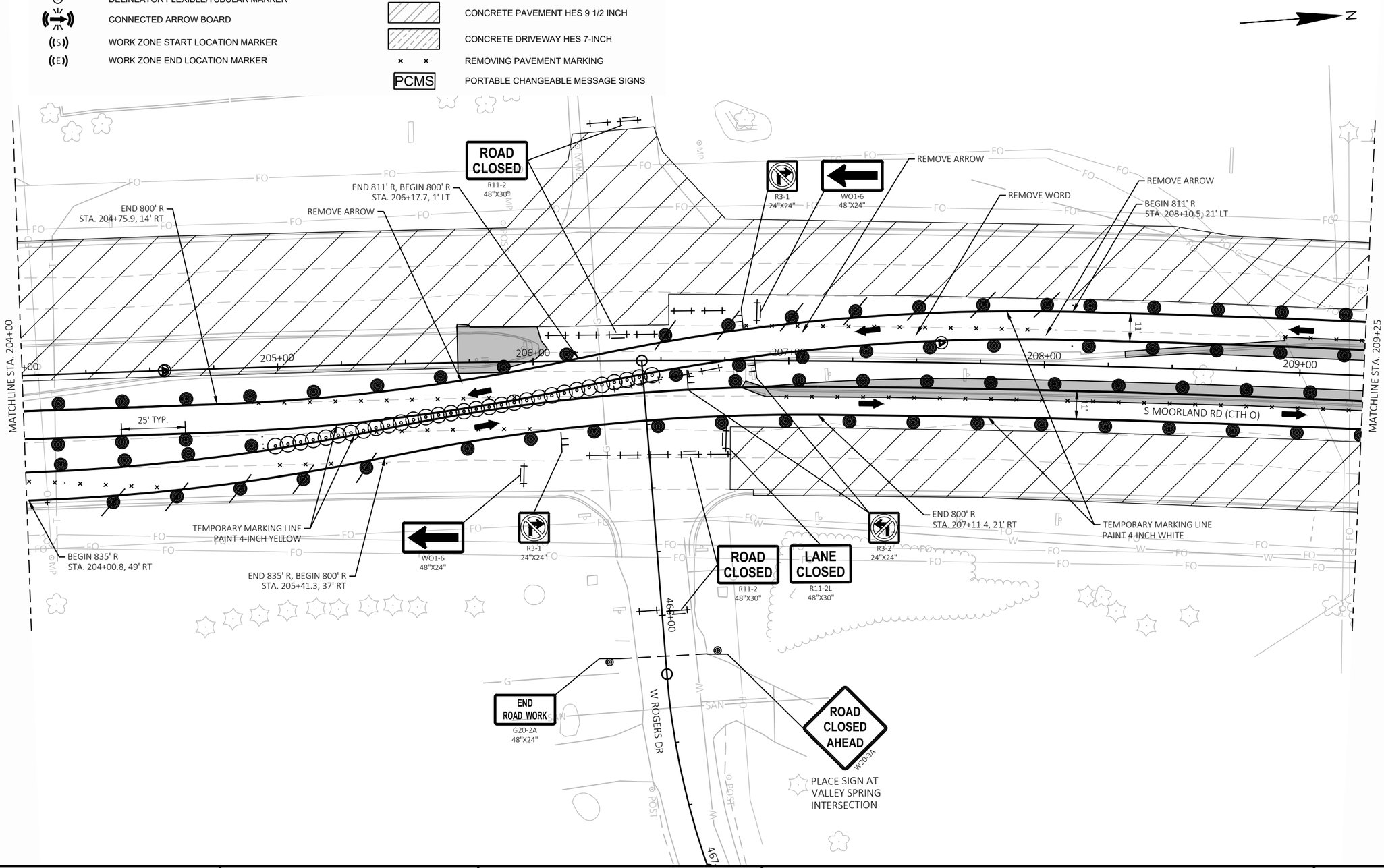
WISDOT/CADDS SHEET 42

2

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 294	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1A.DWG
LAYOUT NAME - 025113-tc

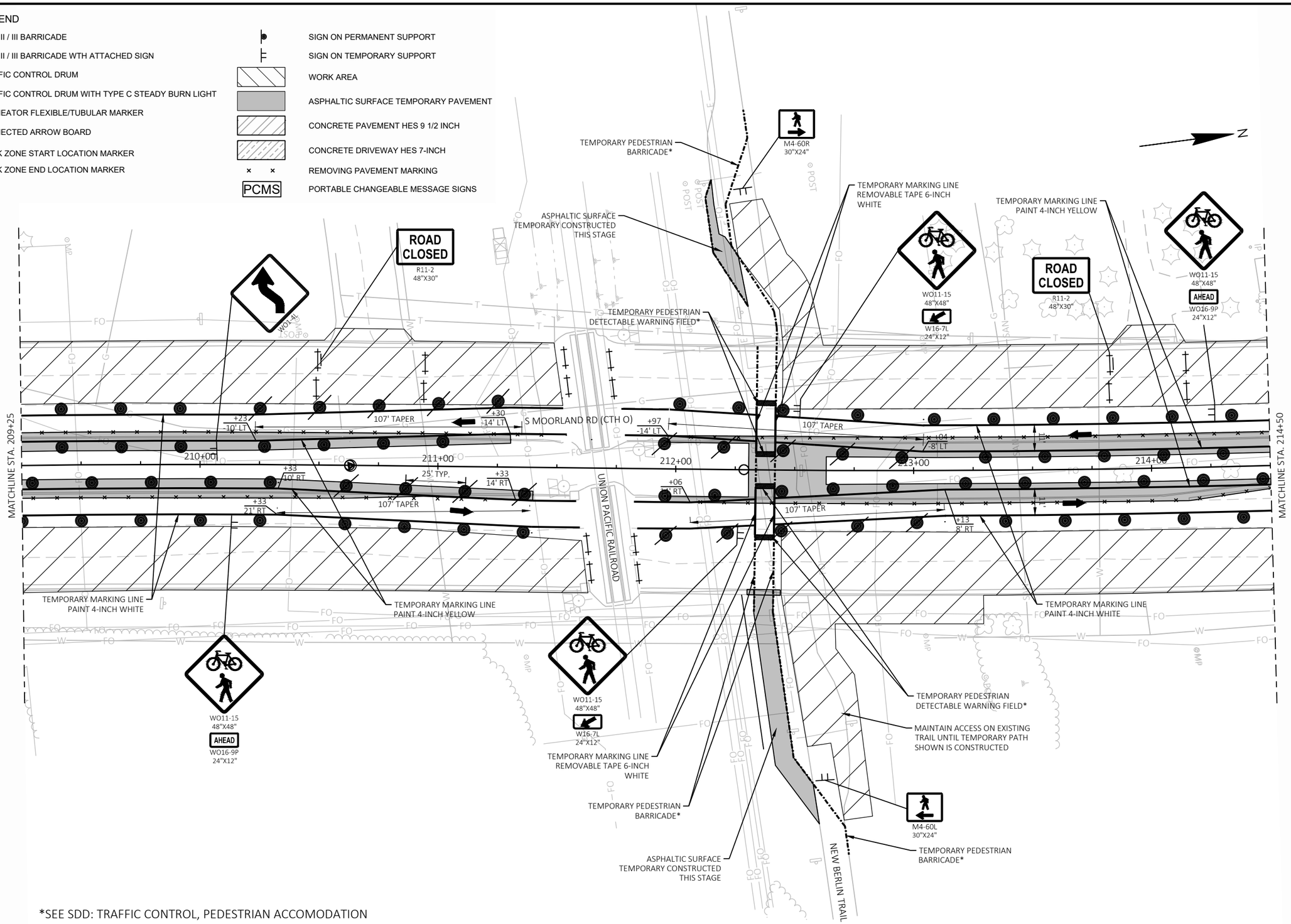
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WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS



*SEE SDD: TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION

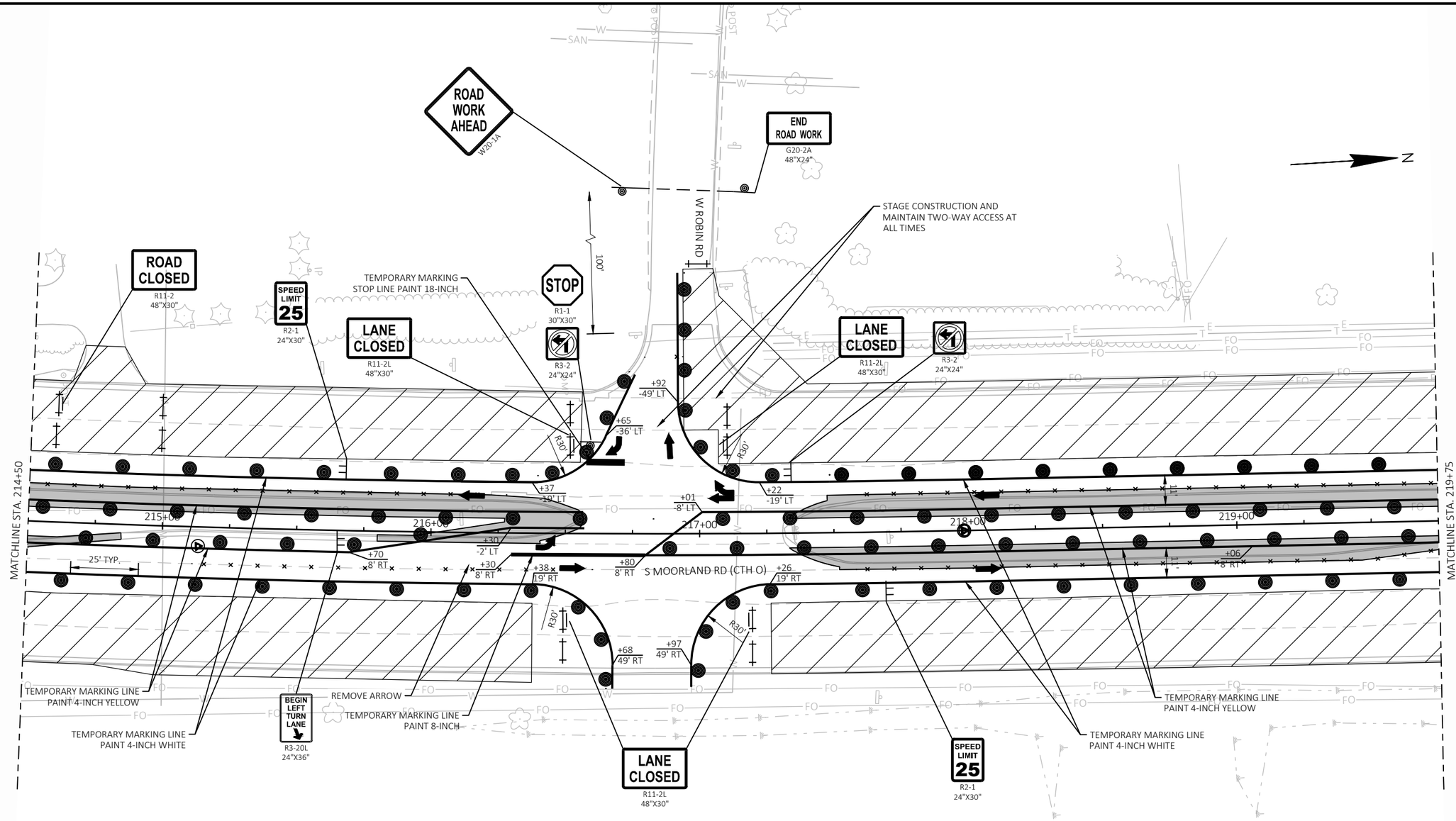
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 295	E

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LAYOUT NAME - 025114-tc

PLOT DATE : 7/23/2026 3:05 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

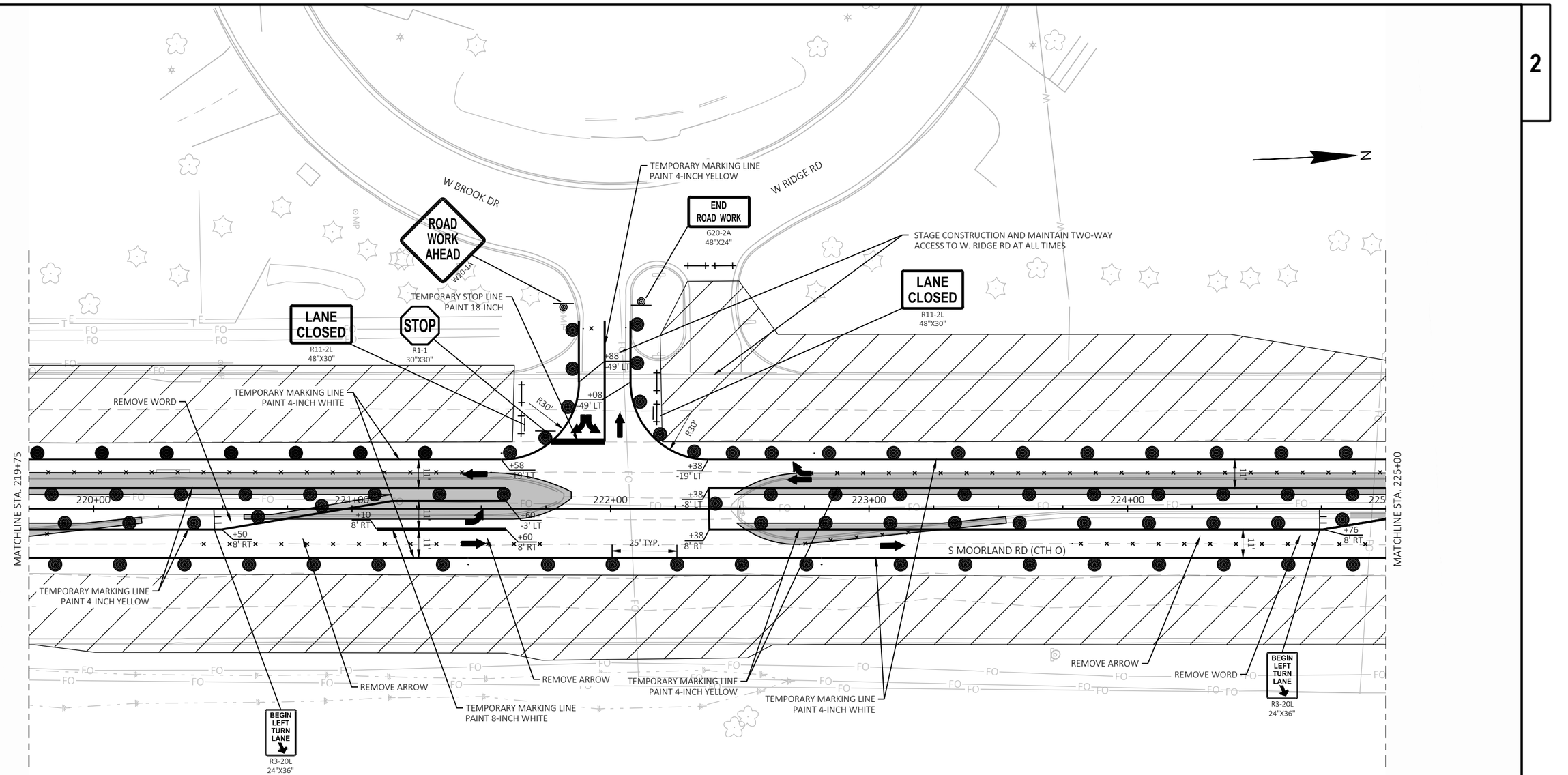
I/‡	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM	▨	WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▩	ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	▨	CONCRETE PAVEMENT HES 9 1/2 INCH
((→))	CONNECTED ARROW BOARD	▨	CONCRETE DRIVEWAY HES 7-INCH
((S))	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
((E))	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 296	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1A.DWG
LAYOUT NAME - 025115-tc

PLOT DATE : 7/23/2026 3:05 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

I/‡	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM	▨	WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▩	ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	▨	CONCRETE PAVEMENT HES 9 1/2 INCH
((→))	CONNECTED ARROW BOARD	▨	CONCRETE DRIVEWAY HES 7-INCH
((S))	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
((E))	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 297	E

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PORTABLE CHANGEABLE MESSAGE SIGNS

N

ROAD WORK AHEAD W20-1A

END ROAD WORK G20-2A 48"X24"

LANE CLOSED R11-2L 48"X30"

STOP R1-1 30"X30"

R3-2 24"X24"

100'

TEMPORARY MAKING LINE PAINT 4-INCH YELLOW

TEMPORARY MAKING LINE PAINT 4-INCH WHITE

STAGE CONSTRUCTION AND MAINTAIN TWO-WAY ACCESS TO W. ROGERS RD. AT ALL TIMES

LANE CLOSED R11-2L 48"X30"

+74 -72' LT

+45 -46' LT

R30'

R60'

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW

MATCHLINE STA. 225+00

MATCHLINE STA. 230+25

+15 -19' LT

+40 -8' LT

+99 -8' LT

+34 -19' LT

225+00

226+00

227+00

228+00

229+00

230+00

+36 8' RT

+86 8' RT

S MOORLAND RD (CTH O)

25' TYP.

+14 8' RT

TEMPORARY MARKING STOP LINE PAINT 18-INCH

TEMPORARY MARKING LINE PAINT 8-INCH WHITE

TEMPORARY MAKING LINE PAINT 4-INCH YELLOW

REMOVE ARROW

TEMPORARY MARKING LINE PAINT 4-INCH YELLOW

TEMPORARY MARKING LINE PAINT 4-INCH WHITE

PAINT TAPE

NP

+04

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE

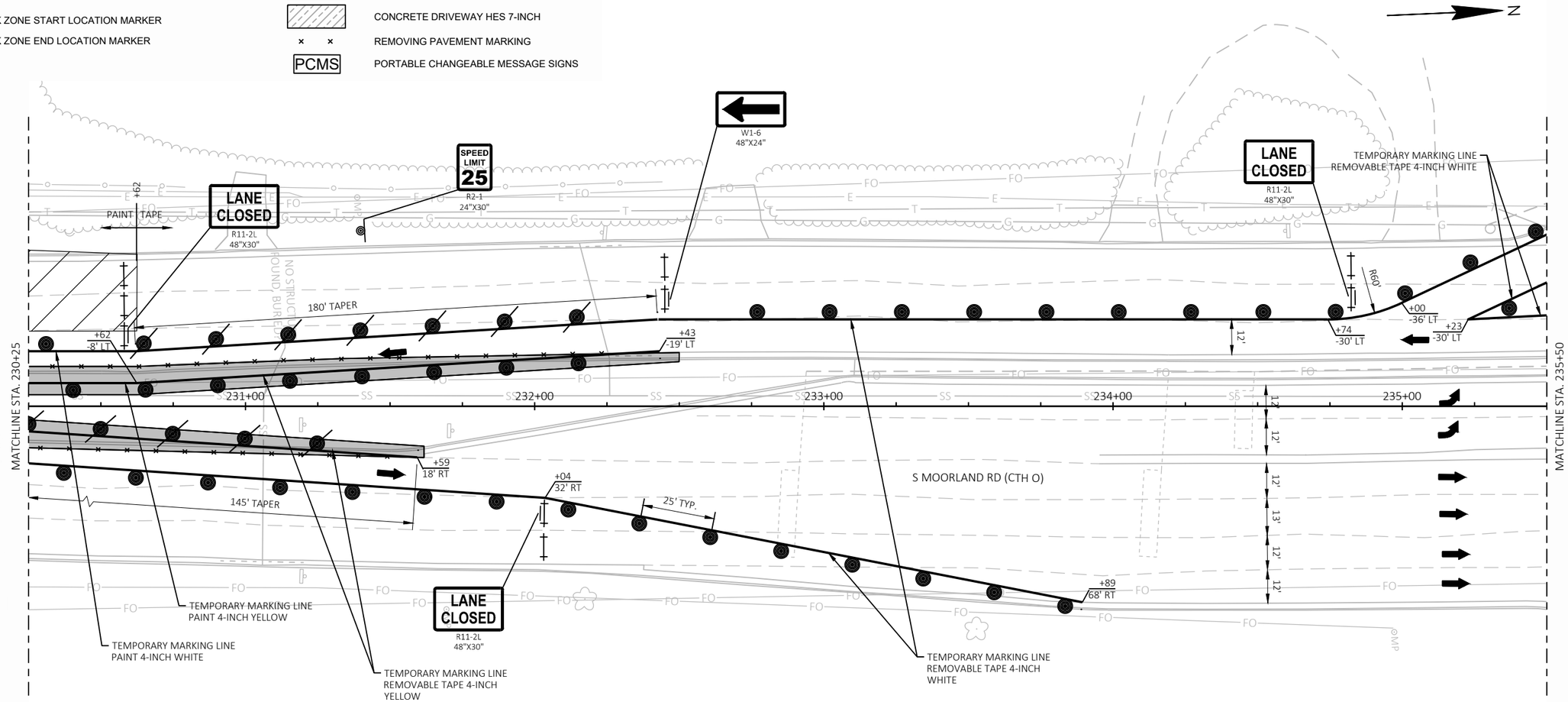
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 298	E

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LAYOUT NAME - 025117-tc

PLOT DATE : 7/23/2026 3:05 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 299	E

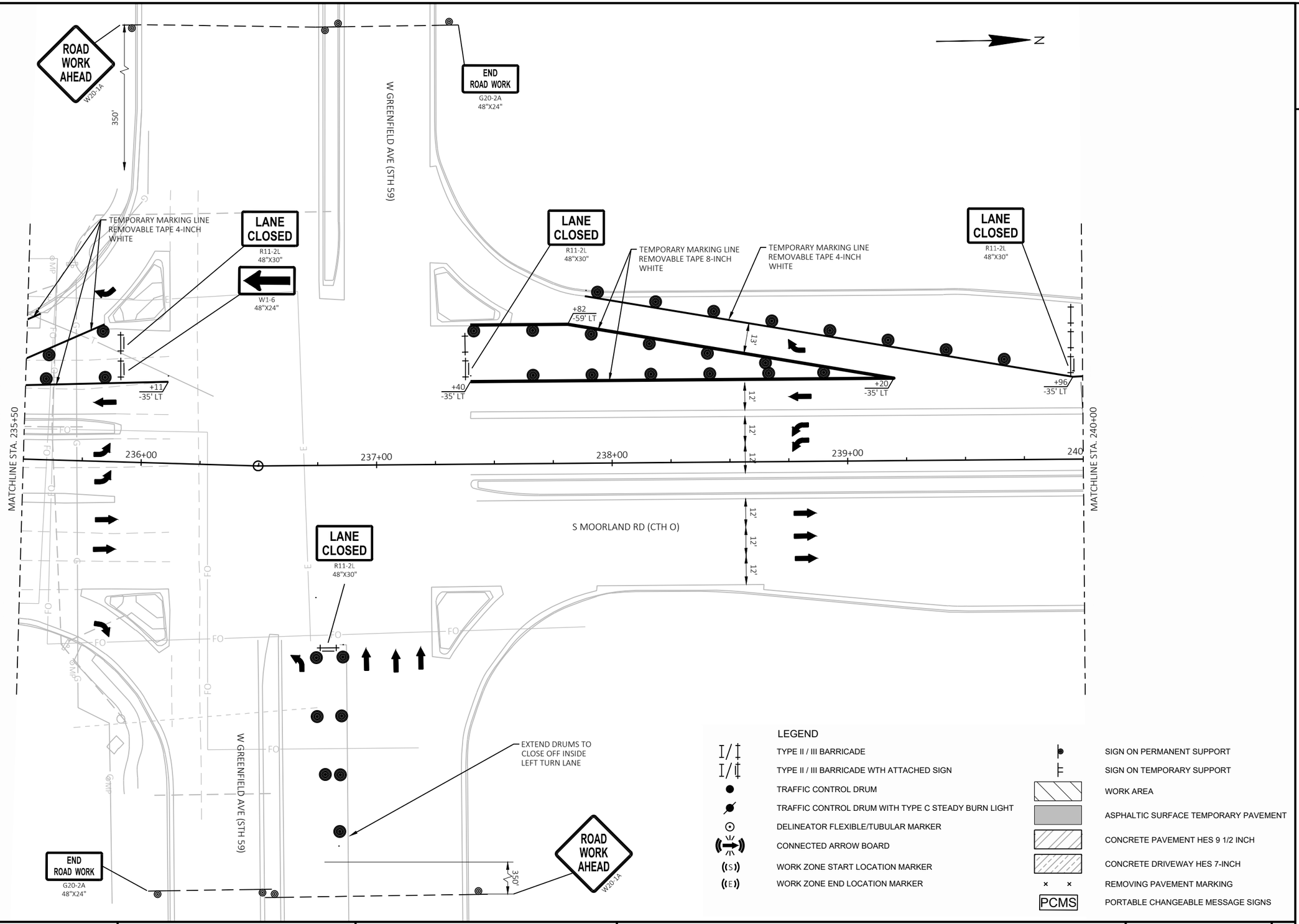
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LAYOUT NAME - 025118-tc

PLOT DATE : 7/23/2026 3:05 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 300	E

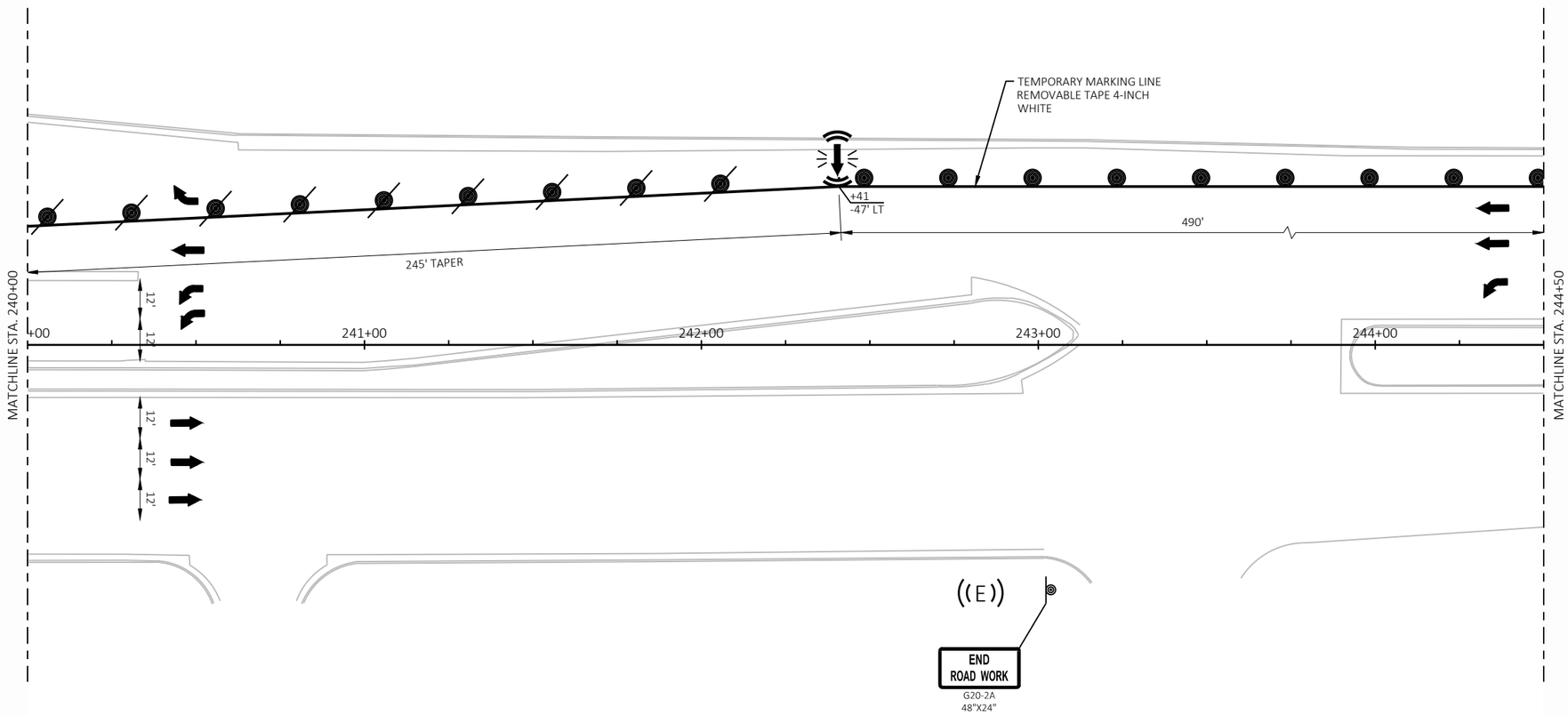
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LAYOUT NAME - 025119-tc

PLOT DATE : 7/23/2026 3:05 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N



2

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 301	E

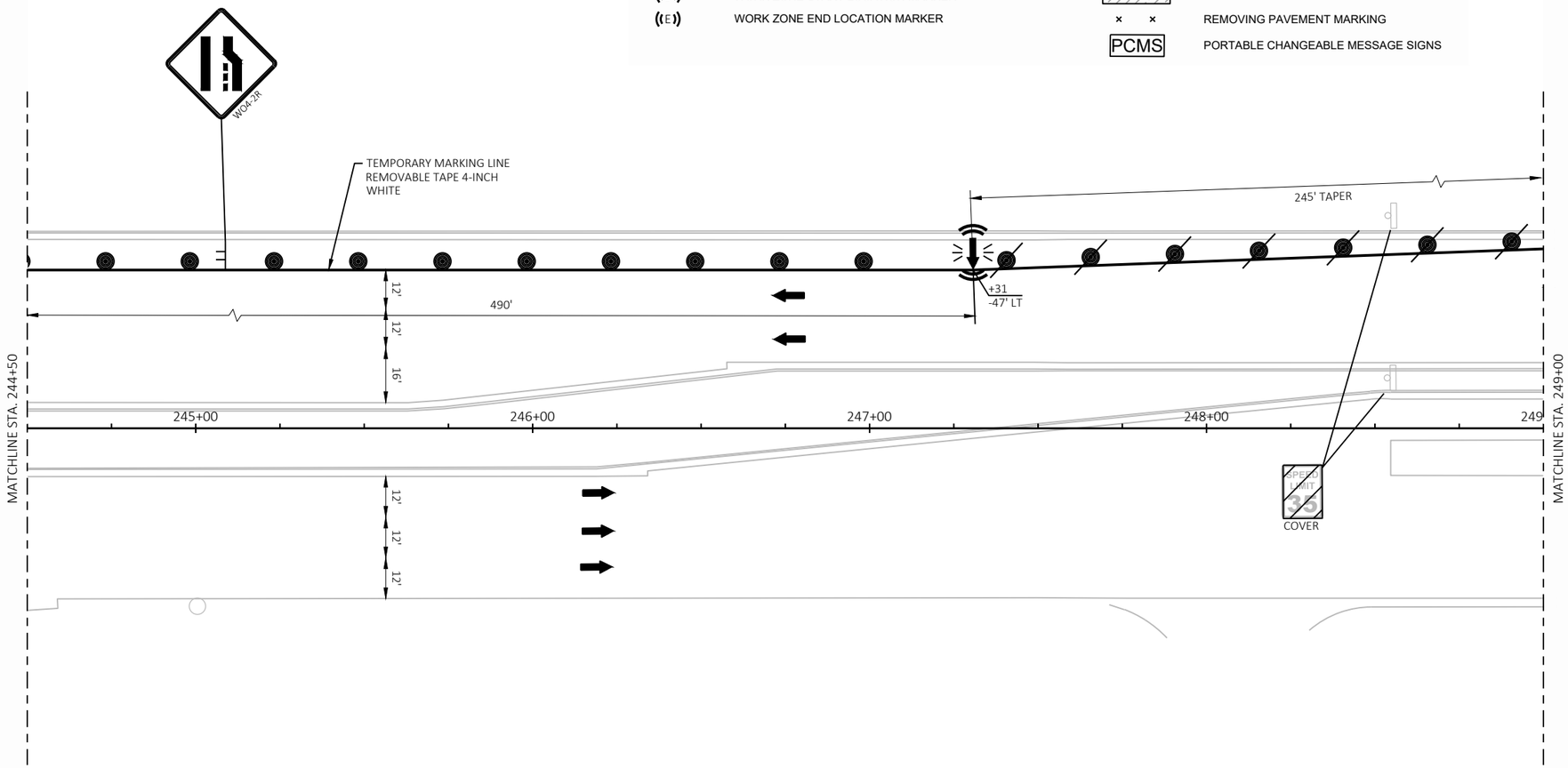
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LAYOUT NAME - 025120-tc

PLOT DATE : 7/23/2026 3:05 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PORTABLE CHANGEABLE MESSAGE SIGNS

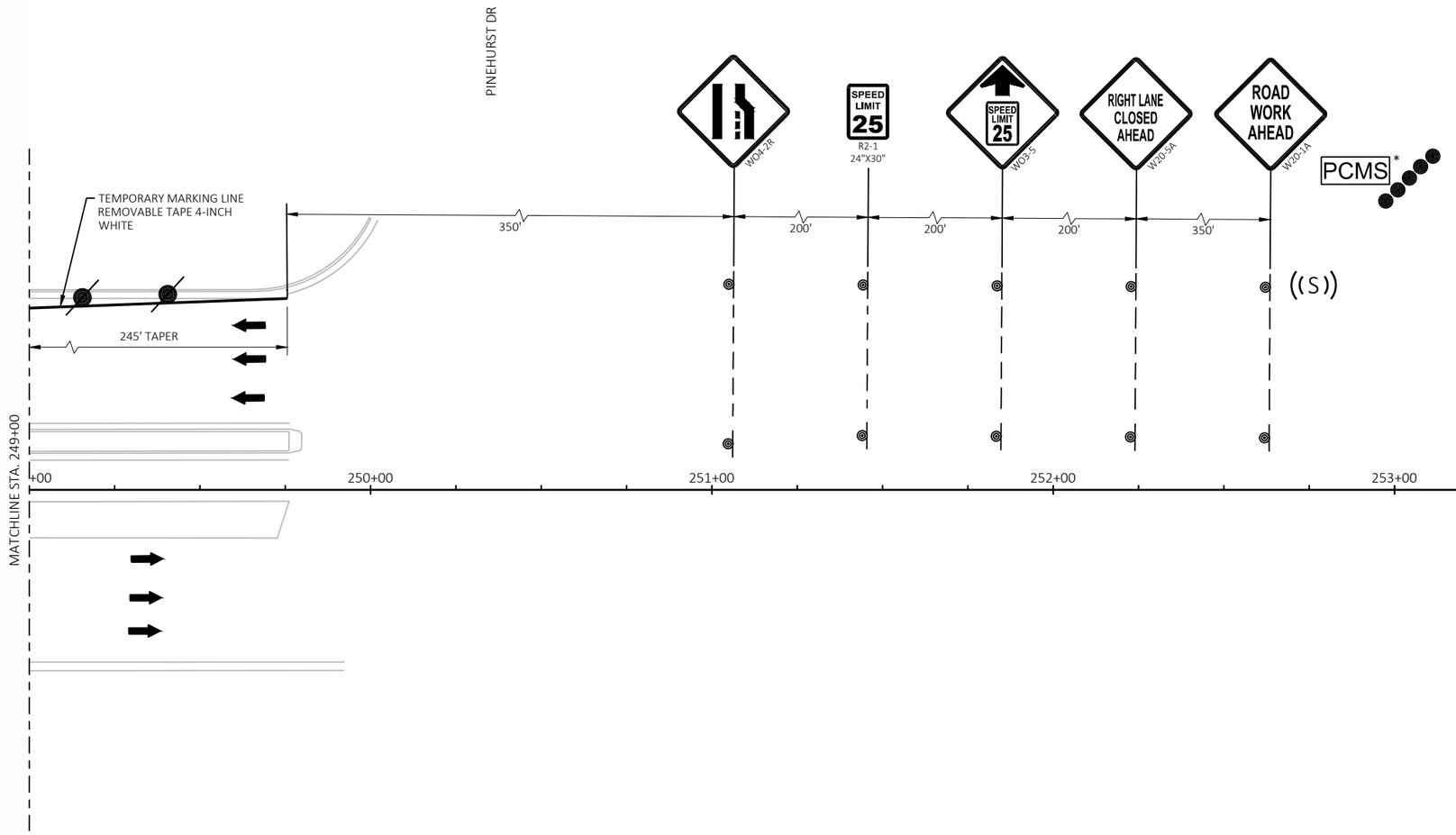
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*NOTE: PLACE A PCMS SIGN AS IDENTIFIED IN PLANS 7 CALENDAR DAYS IN ADVANCE OF CONSTRUCTION STAGE. SEE MESSAGE FRAMES BELOW.

FRAME 1	FRAME 2
ROAD WORK BEGINS	XXXDAY XX / XX

N



LEGEND

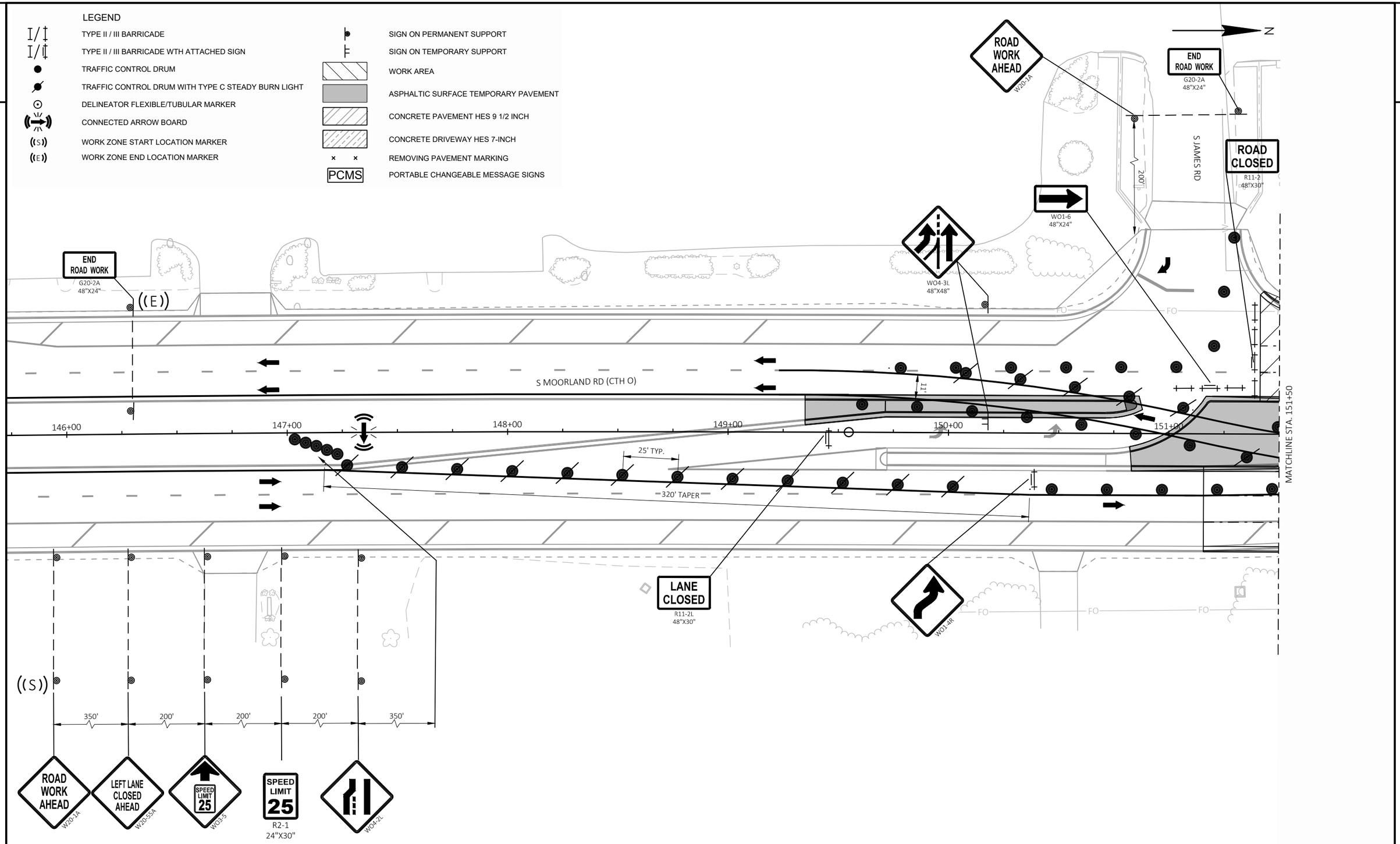
	TYPE II / III BARRICADE		SIGN ON PERMANENT SUPPORT
	TYPE II / III BARRICADE WTH ATTACHED SIGN		SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1A	SHEET 303	E

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 304 E

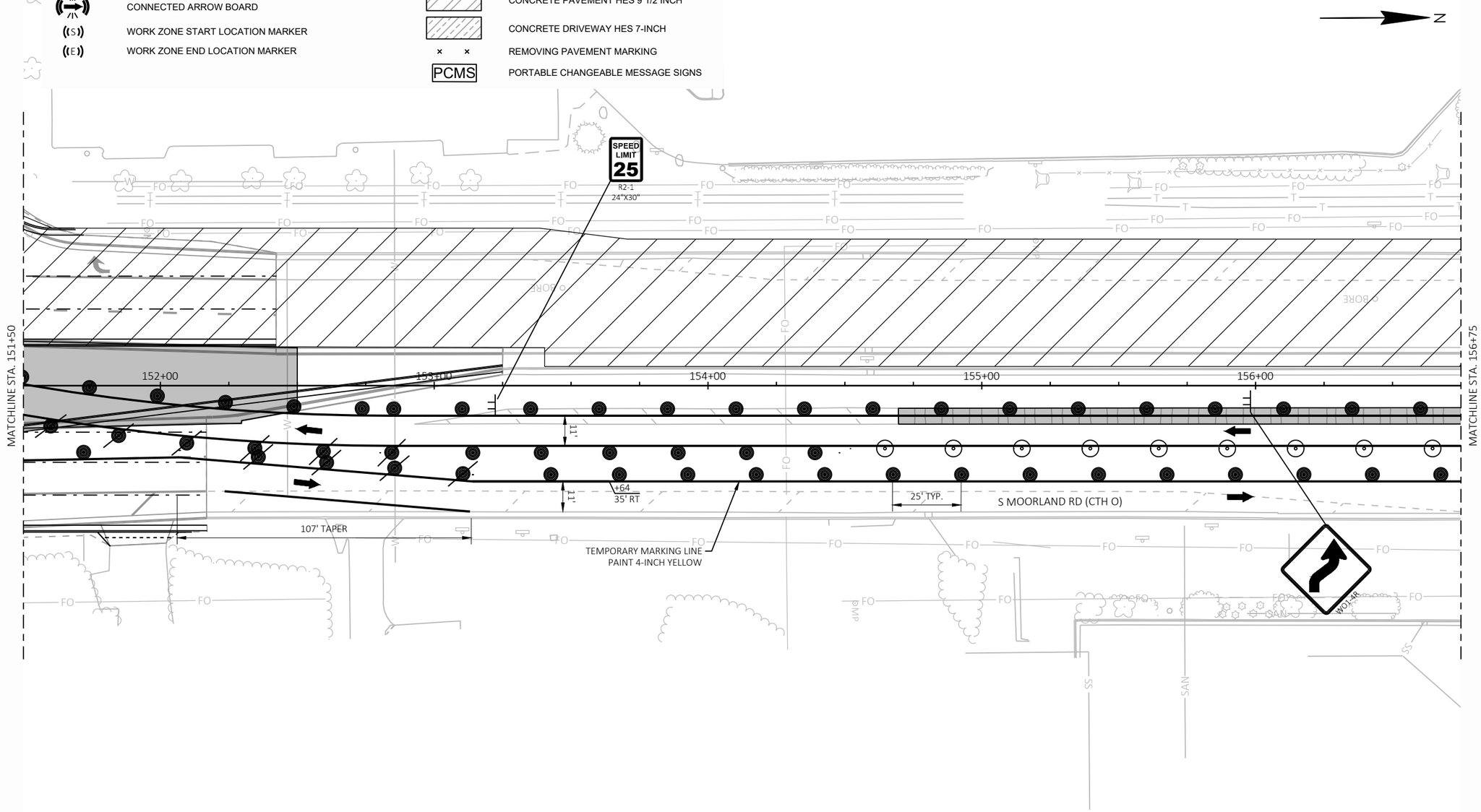
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LAYOUT NAME - 025102-tc

PLOT DATE : 7/23/2026 3:06 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PORTABLE CHANGEABLE MESSAGE SIGNS

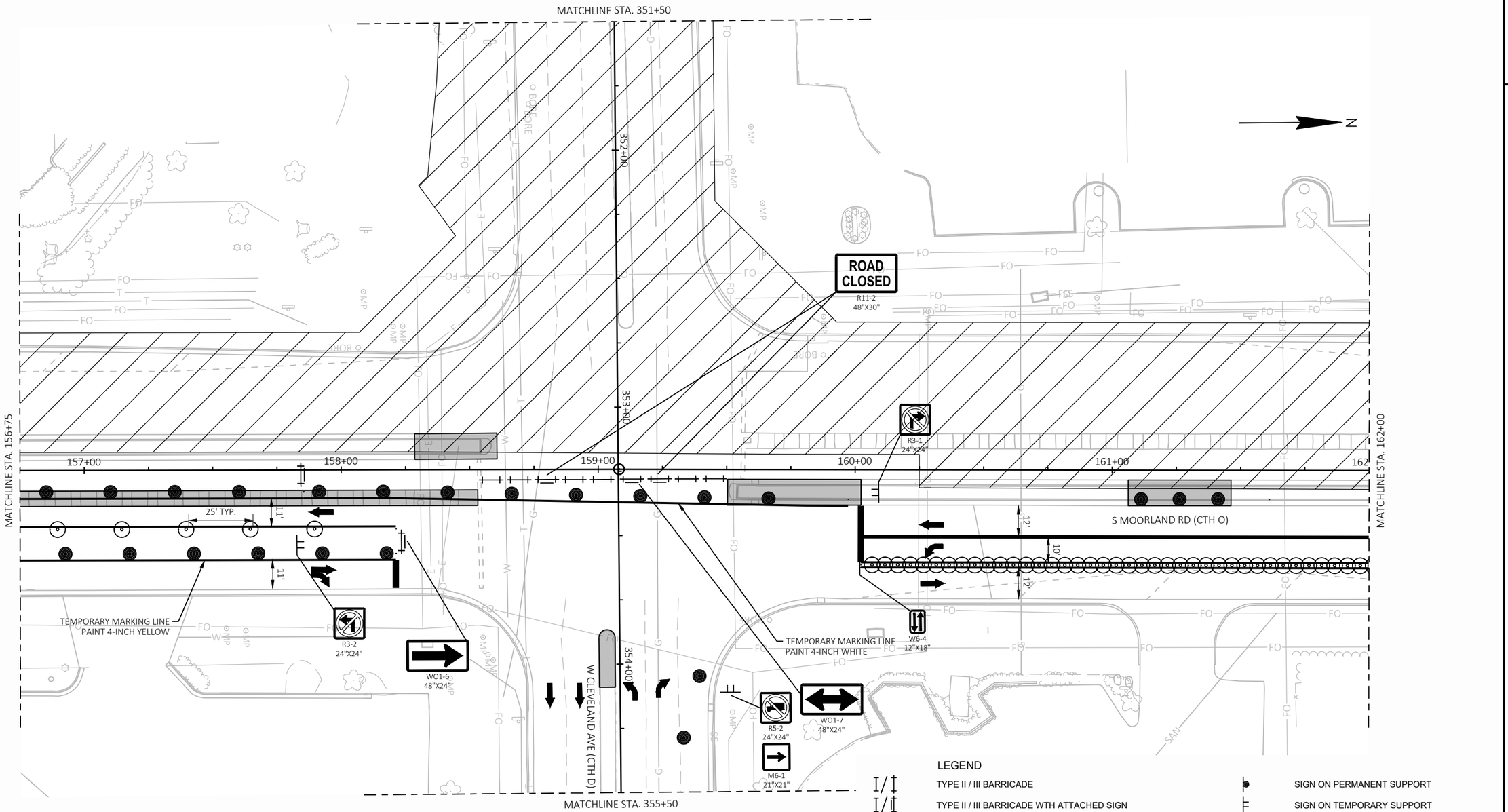


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 305	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025103-tc

PLOT DATE : 7/23/2026 3:06 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 306	E

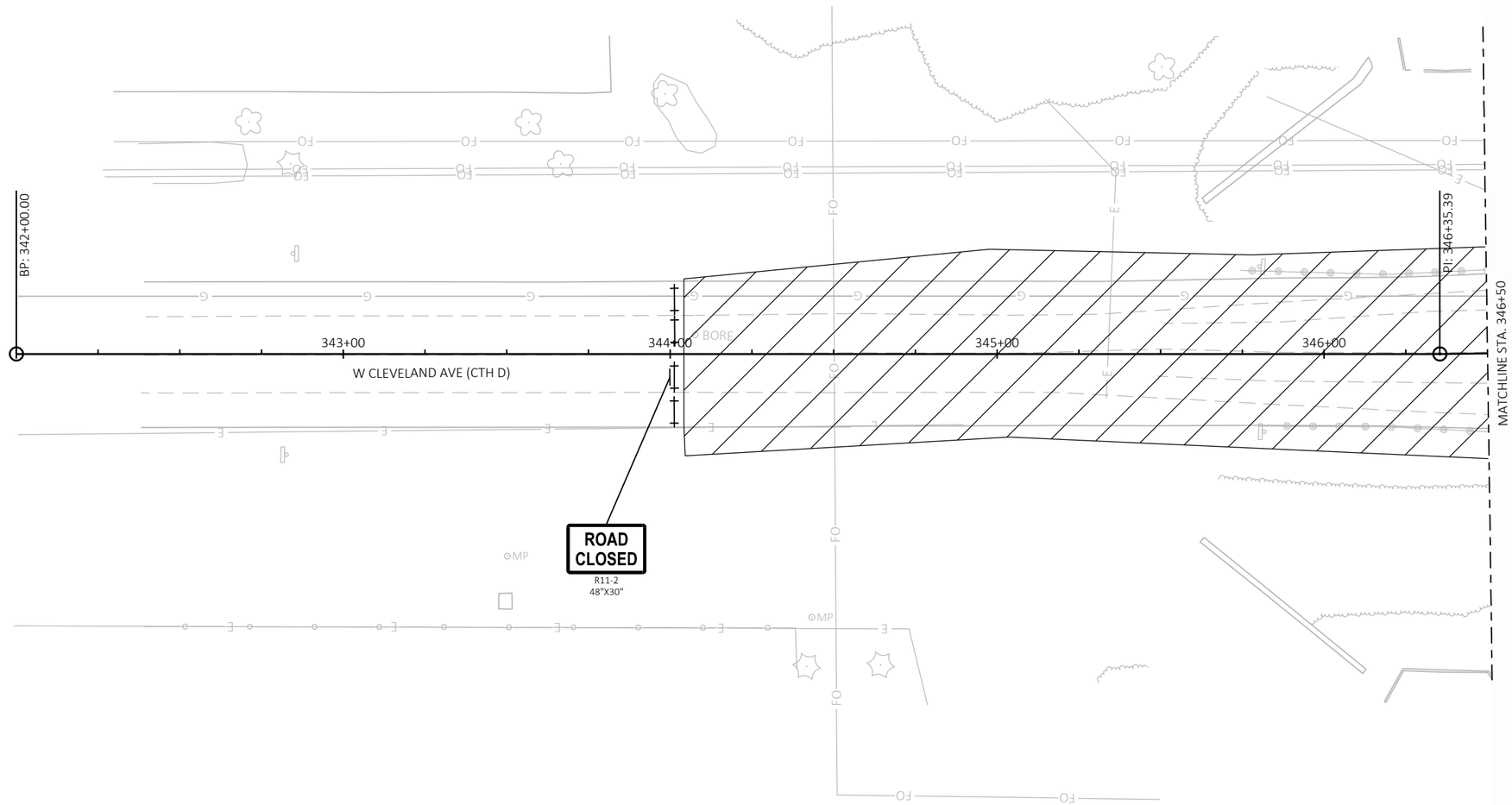
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LAYOUT NAME - 025104-tc
PLOT DATE : 7/23/2026 3:06 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PORTABLE CHANGEABLE MESSAGE SIGNS

N



2

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 307	E

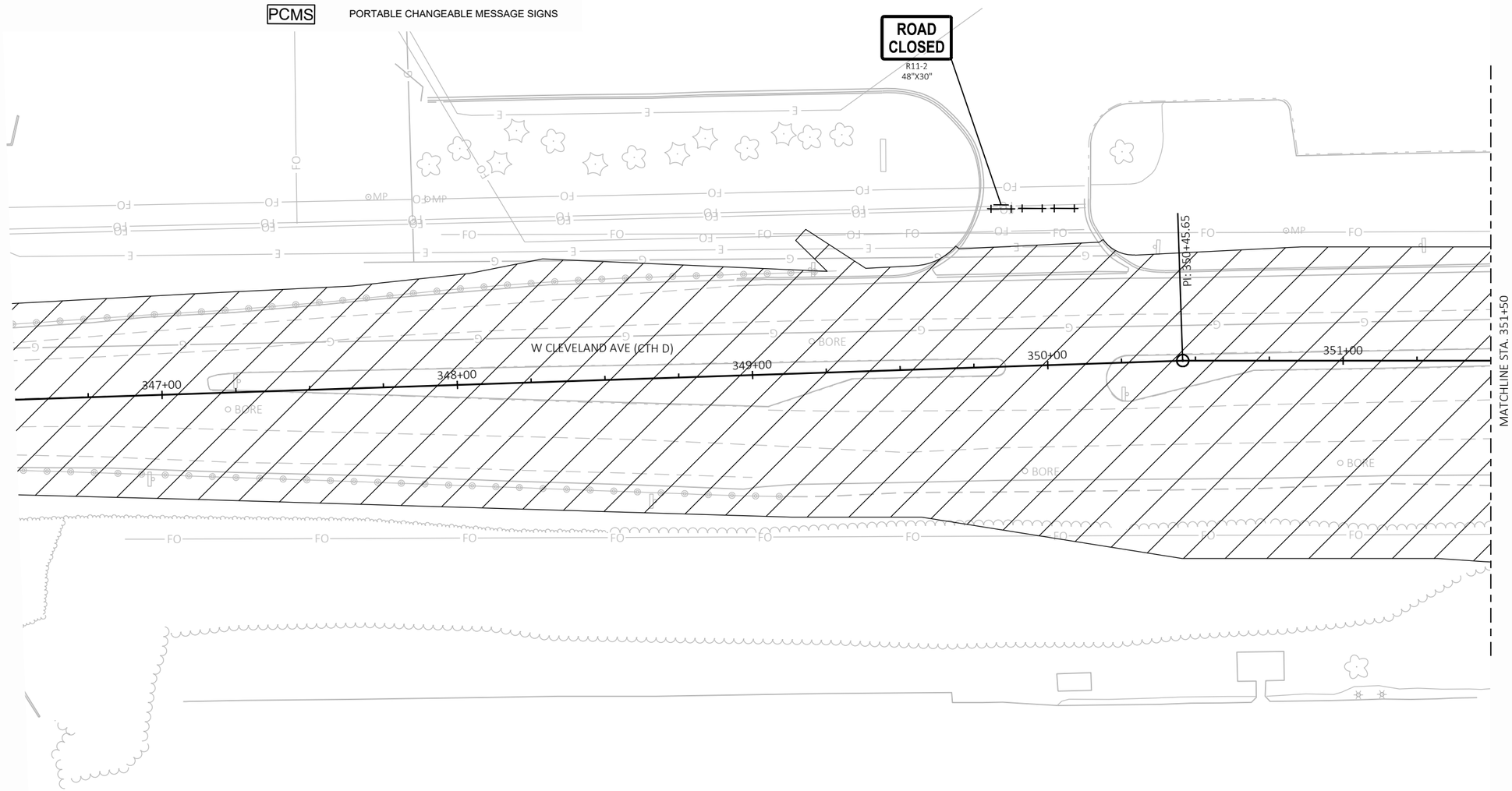
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LAYOUT NAME - 025104a-tc

PLOT DATE : 7/23/2026 3:06 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



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2

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 308	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025104b-tc

PLOT DATE : 7/23/2026 3:06 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

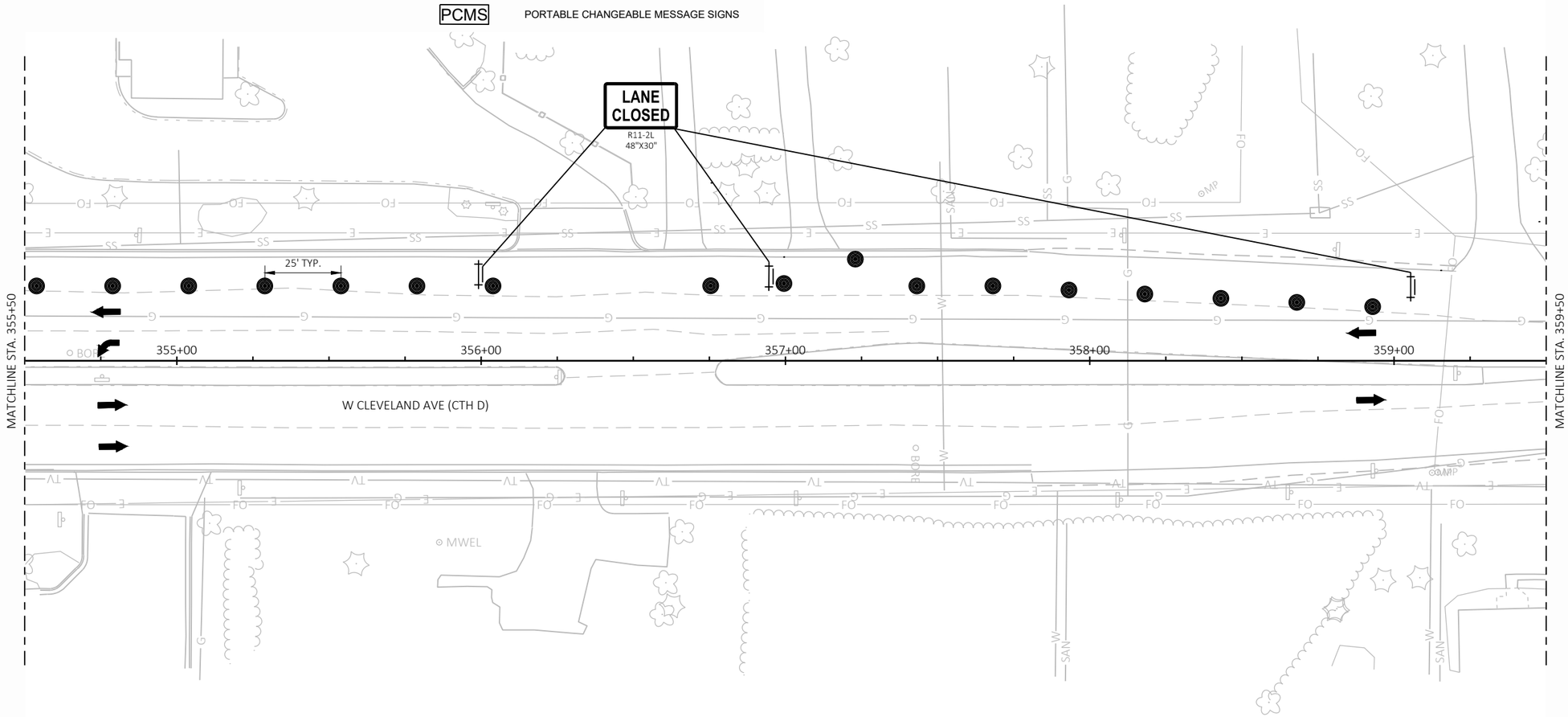
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2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 309 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025104c-tc
PLOT DATE : 7/23/2026 3:06 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

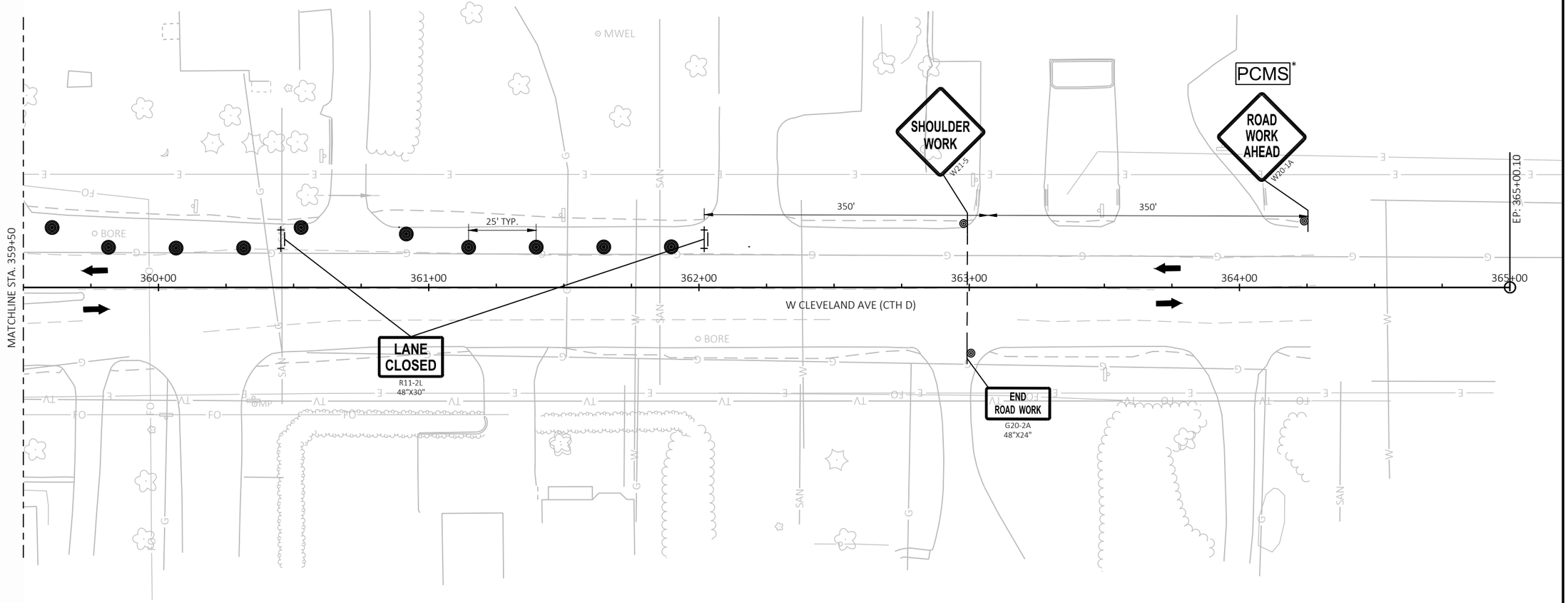
WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

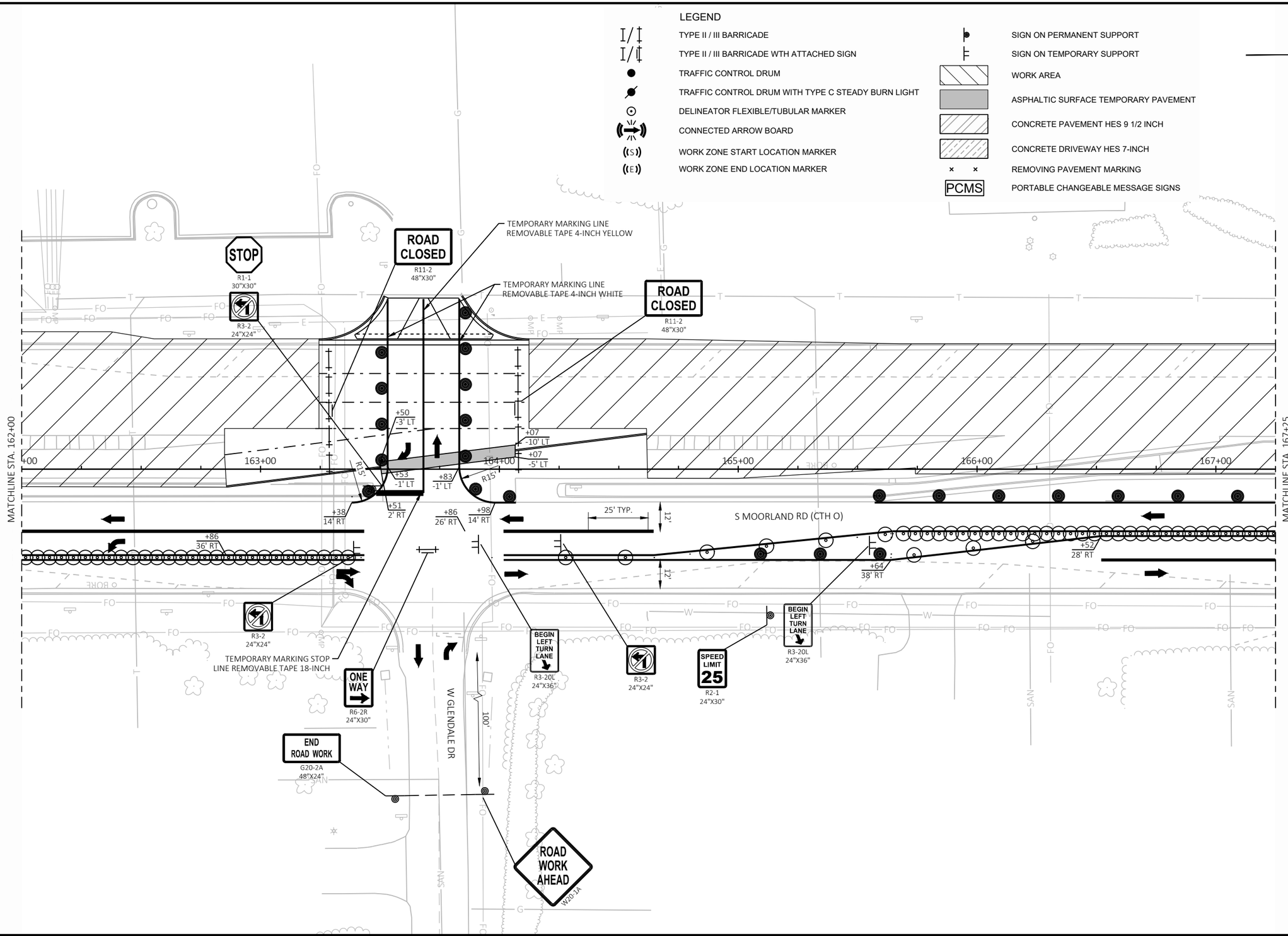
N


MATCHLINE STA. 359+50
360+00
361+00
362+00
363+00
364+00
365+00
EP: 365+00.10
W CLEVELAND AVE (CTH D)
25' TYP.
350'
350'
SHOULDER WORK
W21-5
PCMS*
ROAD WORK AHEAD
W20-1A
LANE CLOSED
R11-2L
48"X30"
END ROAD WORK
G20-2A
48"X24"
MWEL
BORE
BORE
SAN
SAN
SAN
SAN
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FO
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LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS

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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 311	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025105-tc

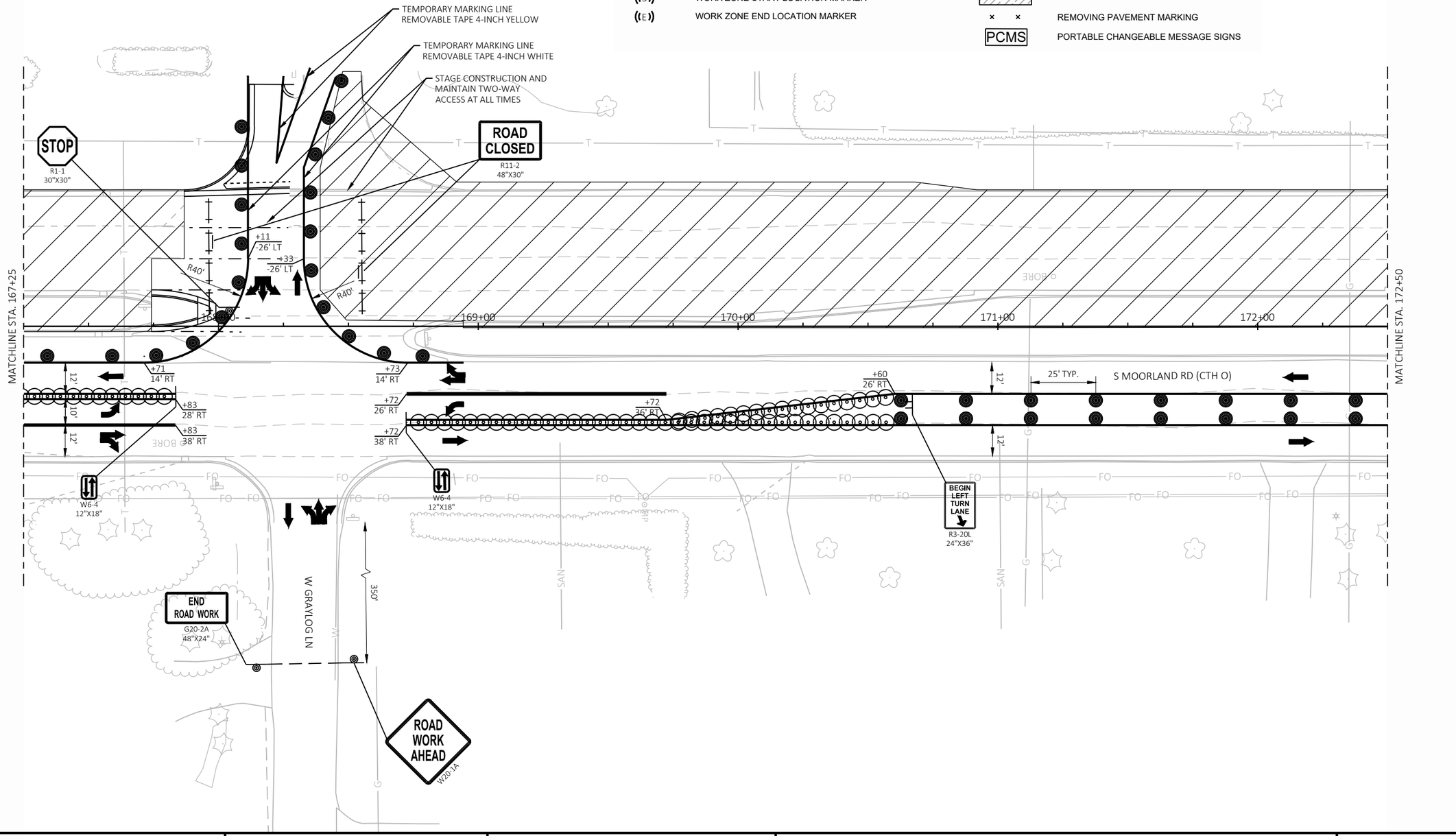
PLOT DATE : 7/23/2026 3:07 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS PORTABLE CHANGEABLE MESSAGE SIGNS

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 312	E

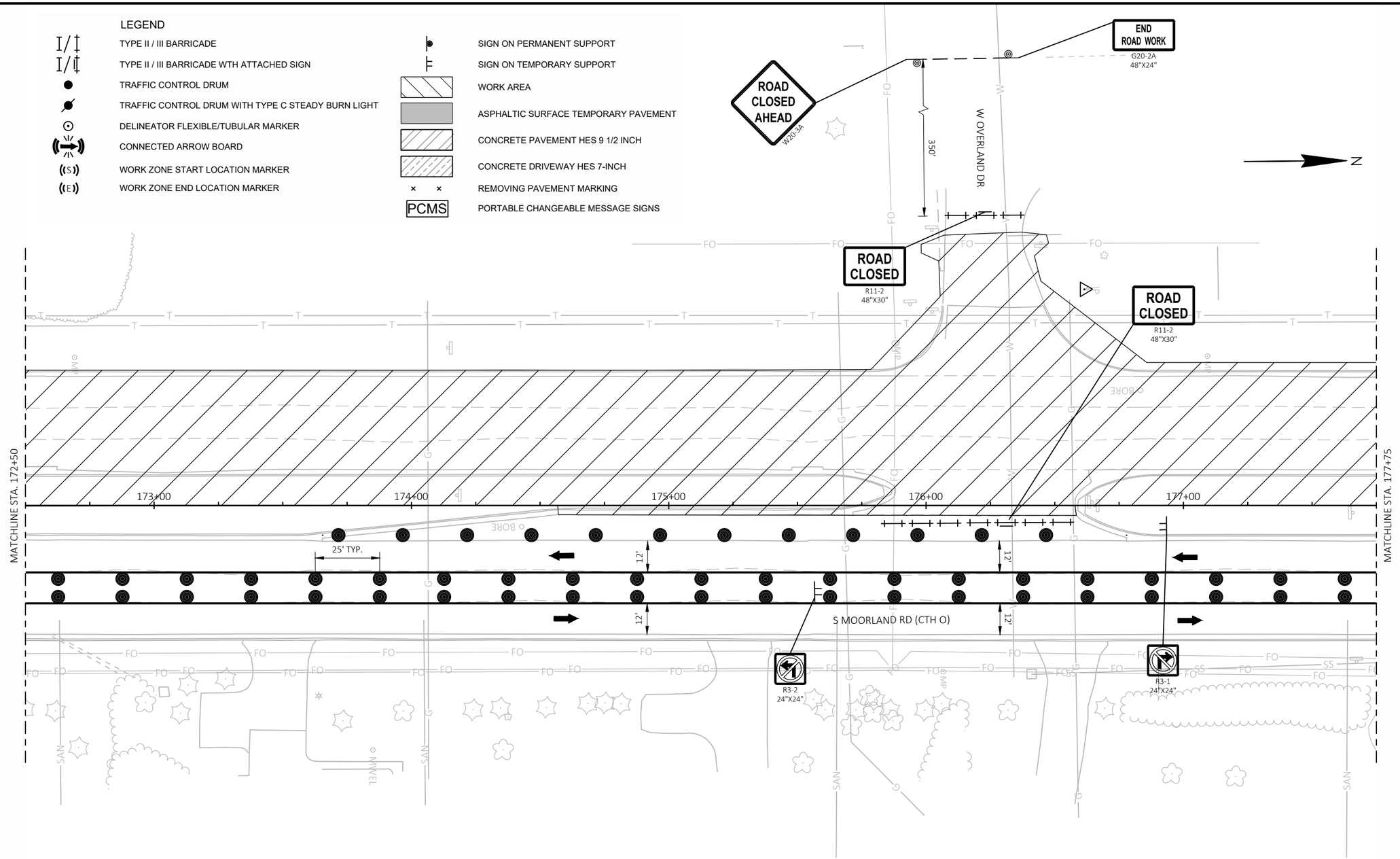
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LAYOUT NAME - 025106-tc

PLOT DATE : 7/23/2026 3:07 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 313	E

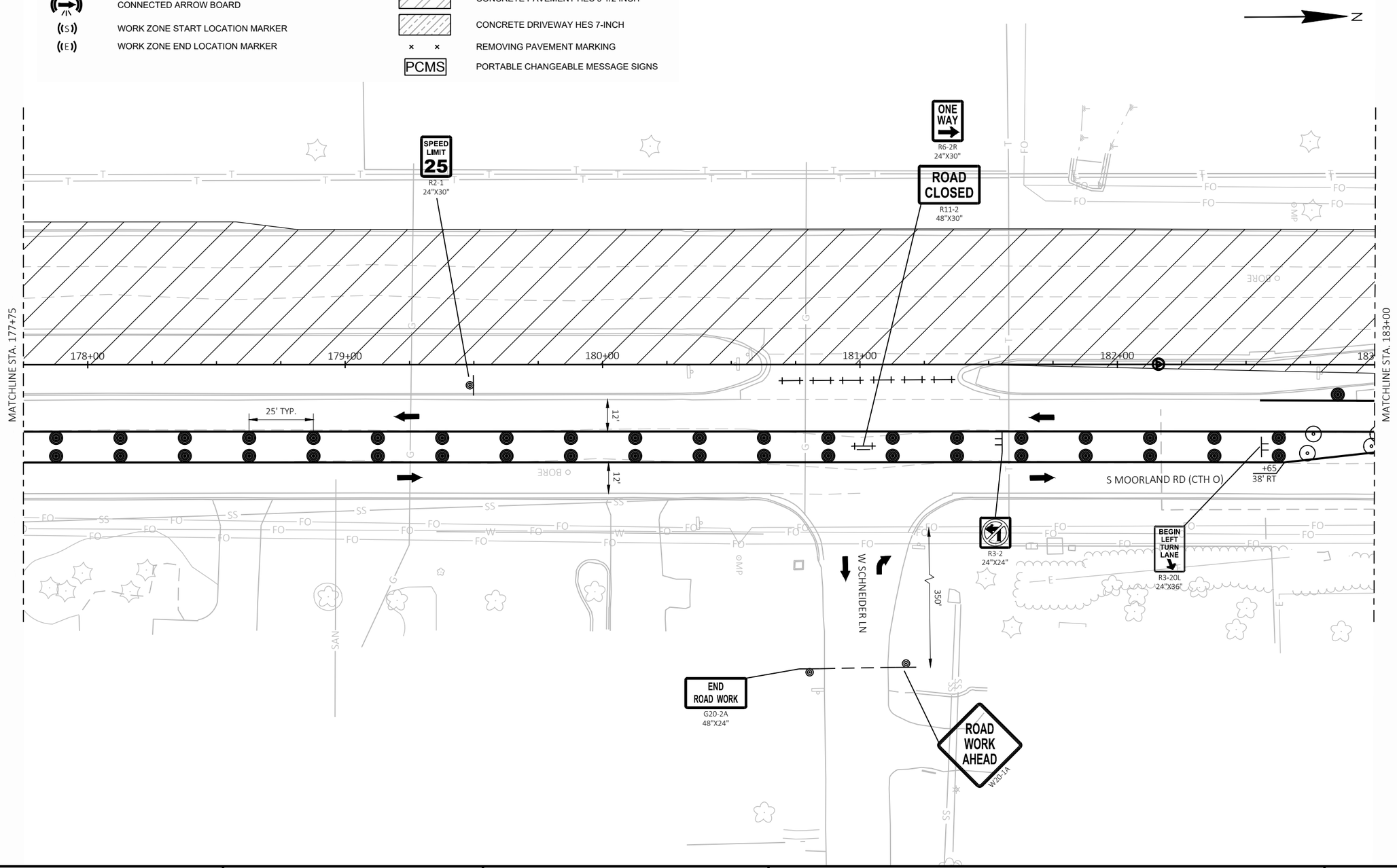
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LAYOUT NAME - 025107-tc

PLOT DATE : 7/23/2026 3:07 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 314 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025108-tc

PLOT DATE : 7/23/2026 3:07 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

MATCHLINE STA. 420+00

W LINCOLN AVE

LANE CLOSED
R11-2L
48"X30"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH YELLOW

TEMPORARY MARKING LINE
REMOVABLE TAPE 8-INCH WHITE

TEMPORARY MARKING STOP LINE
REMOVABLE TAPE 18-INCH

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH WHITE

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

N

421+00

+35
50' LT

R70'

+21
8' LT

R15'

184+00

185+00

186+00

187+00

188+00

+87
4' RT

+36
4' RT

+65
14' RT

+87
9' RT

+07
26' RT

+07
38' RT

+53
28' RT

12'

10'

12'

5'

422+00

S MOORLAND RD (CTH O)

12'

10'

12'

25' TYP.

TEMPORARY MARKING LINE
PAINT 4-INCH YELLOW

TEMPORARY MARKING LINE
PAINT 8-INCH

W6-4
12"X18"

W6-4
12"X18"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

W LINCOLN AVE

423+00

MATCHLINE STA. 183+00

MATCHLINE STA. 188+25

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 315	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025109-tc

PLOT DATE : 7/23/2026 3:07 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

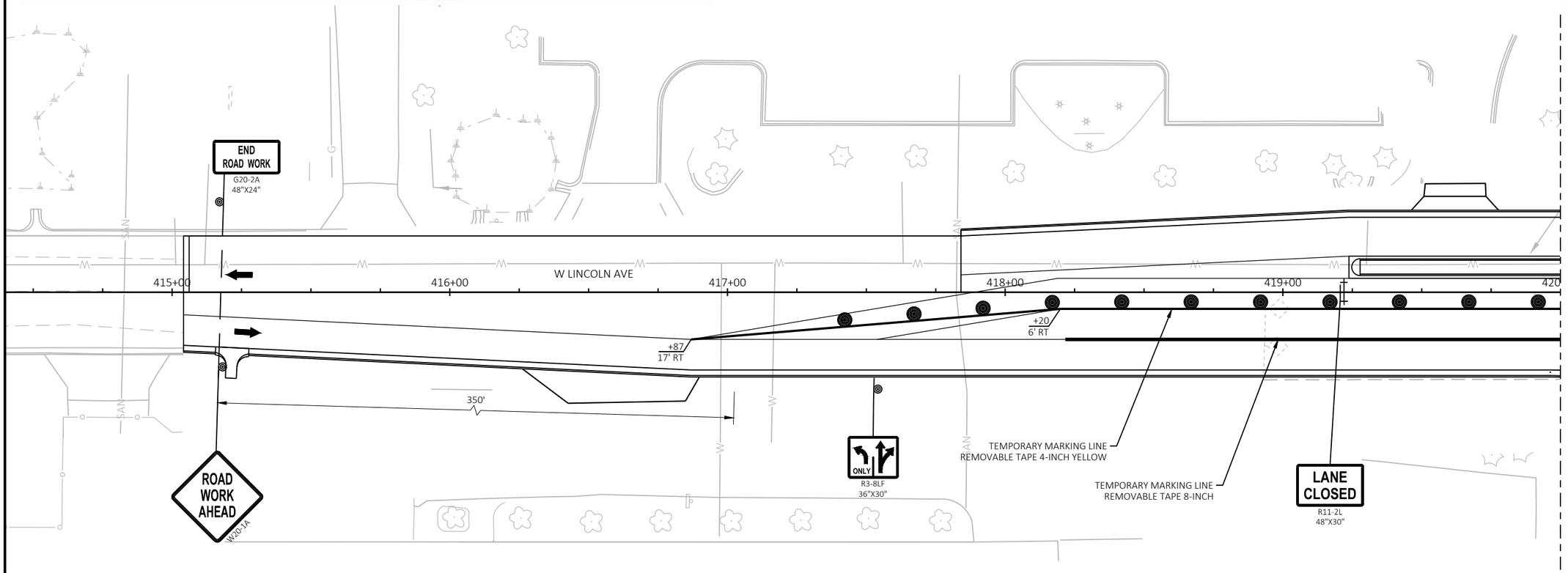
2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 316	E

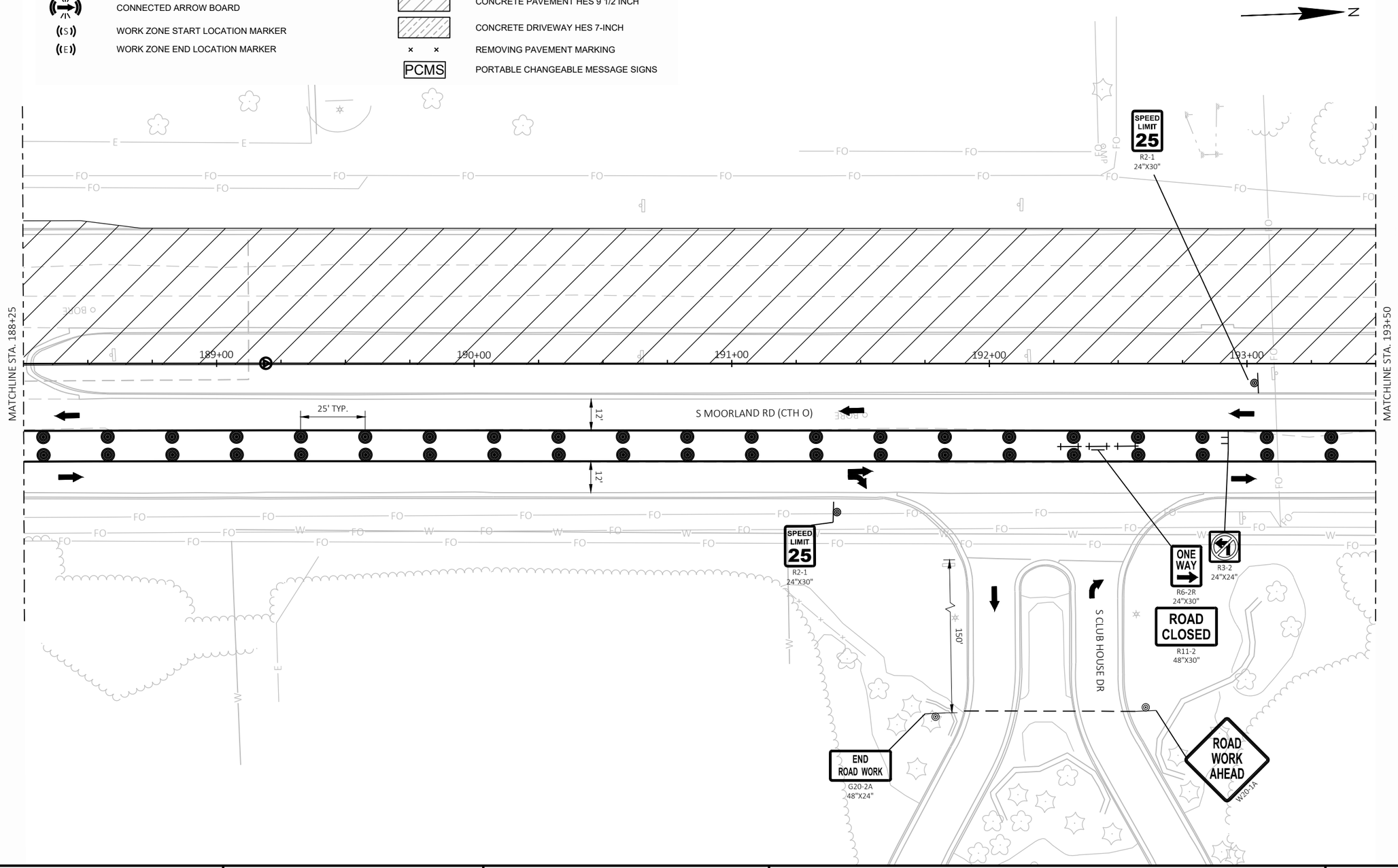
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LAYOUT NAME - 025109a-tc
PLOT DATE : 7/23/2026 3:07 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 317	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025110-tc

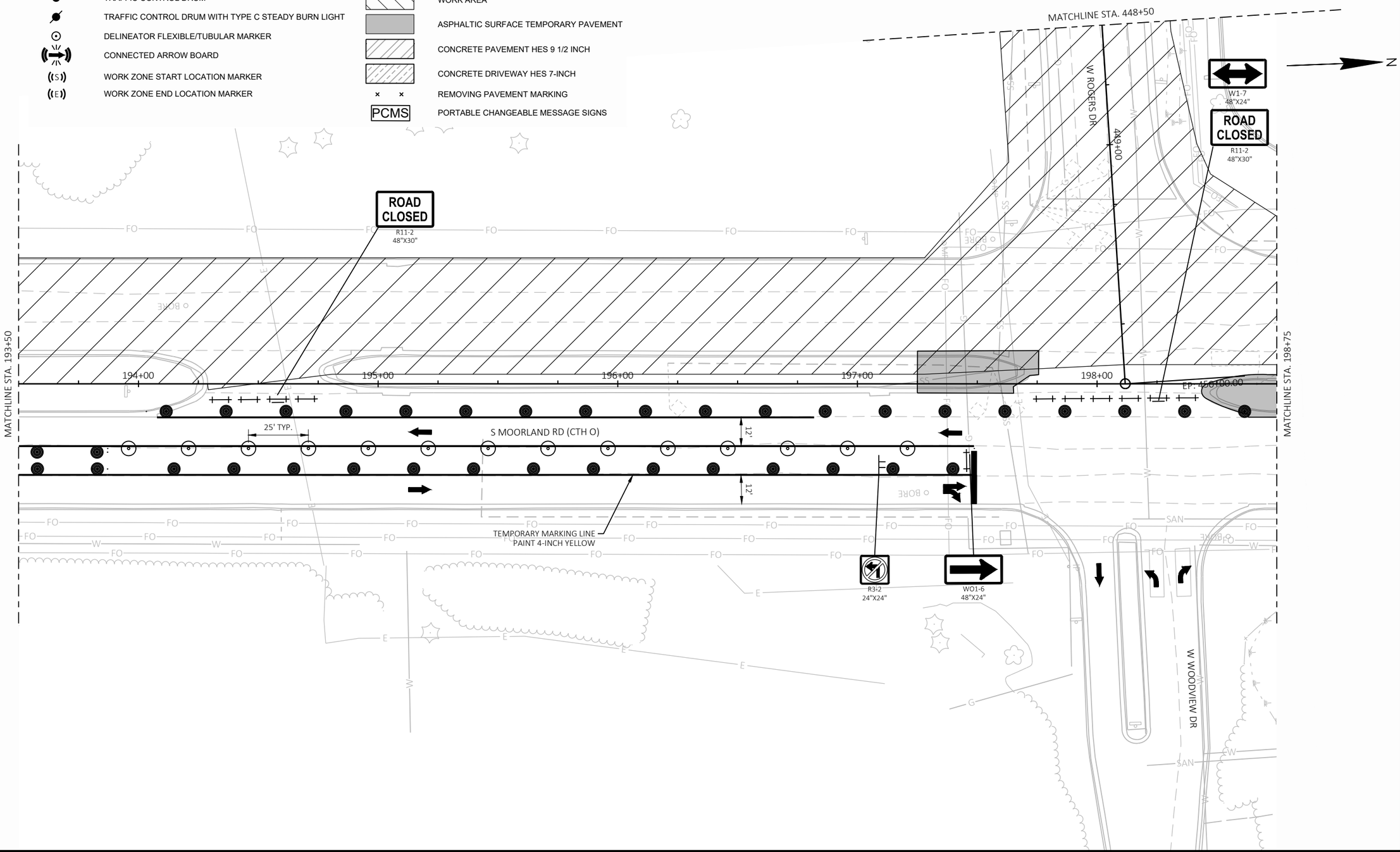
PLOT DATE : 7/23/2026 3:07 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 318 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025111-tc

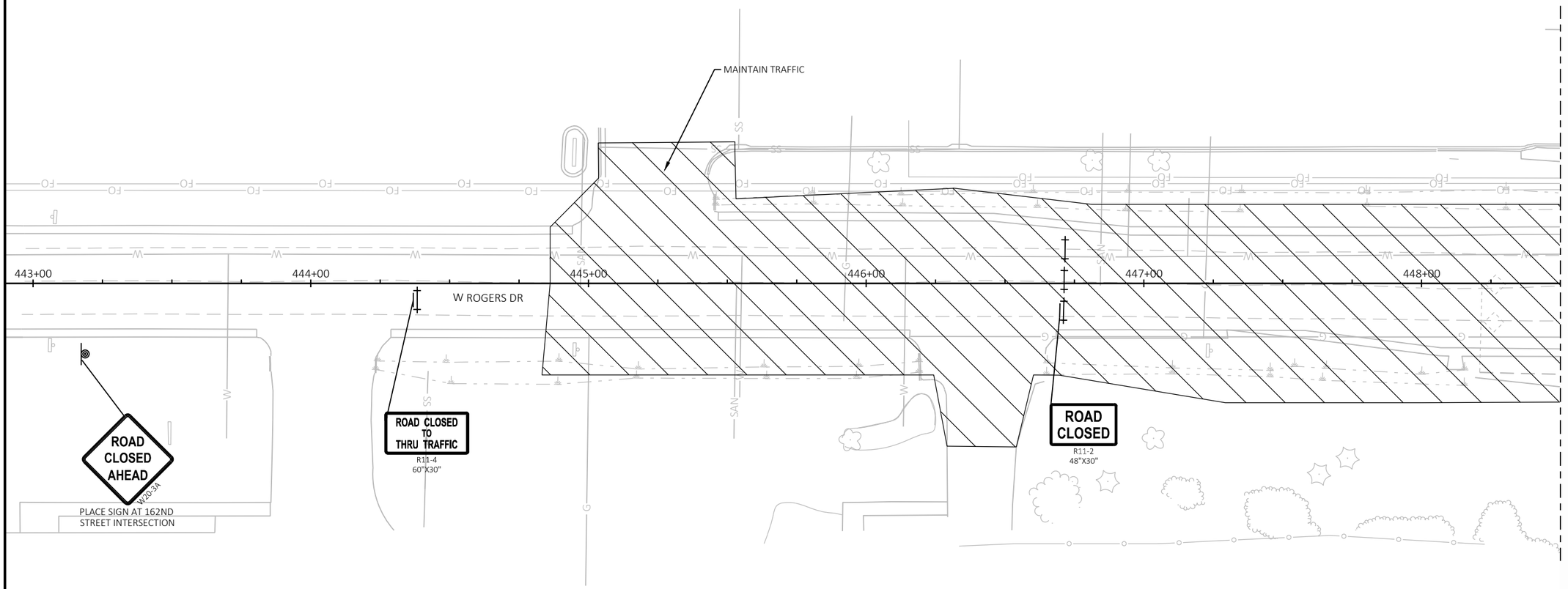
PLOT DATE : 7/23/2026 3:08 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS

N



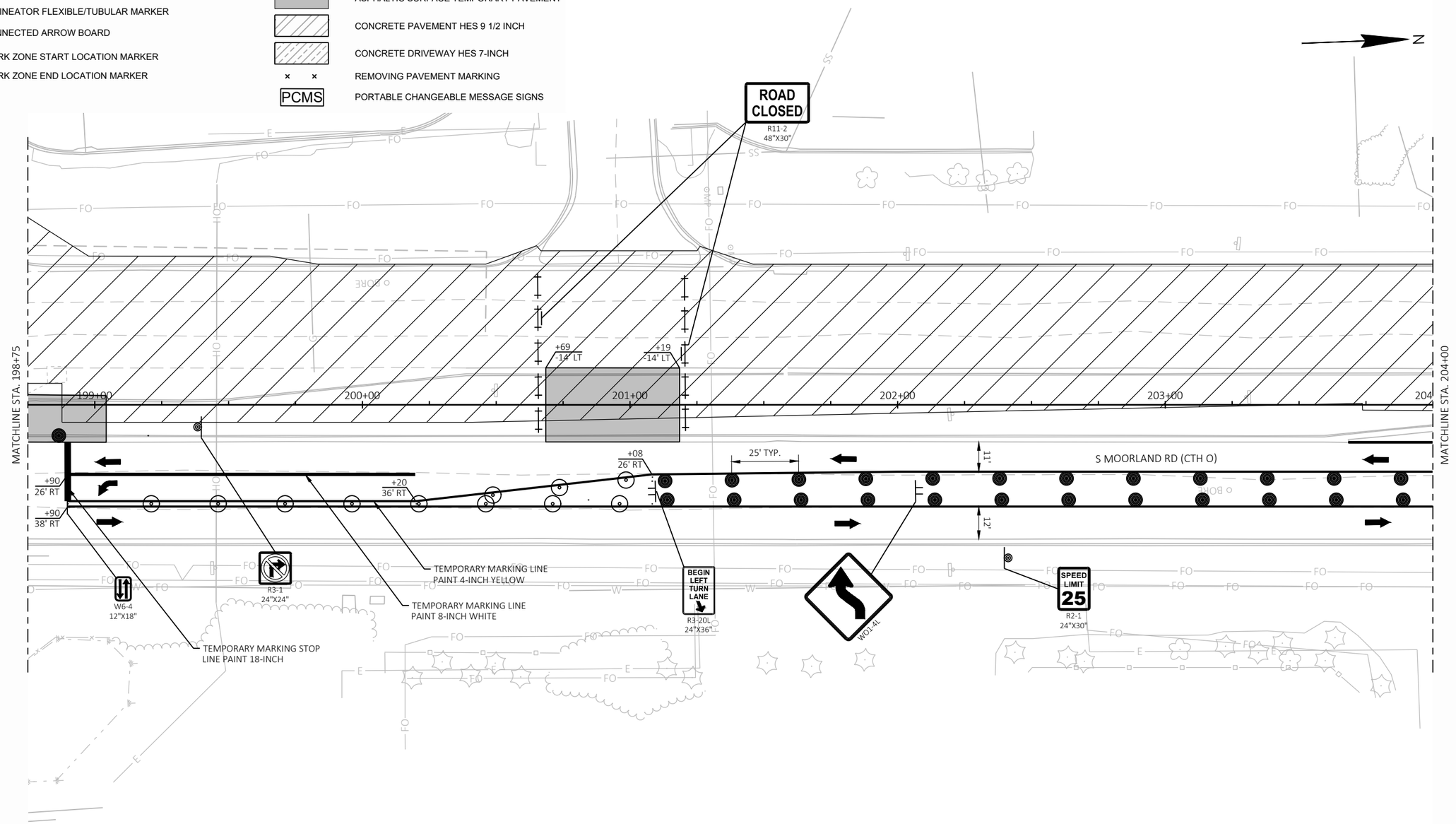
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 319	E

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 320	E

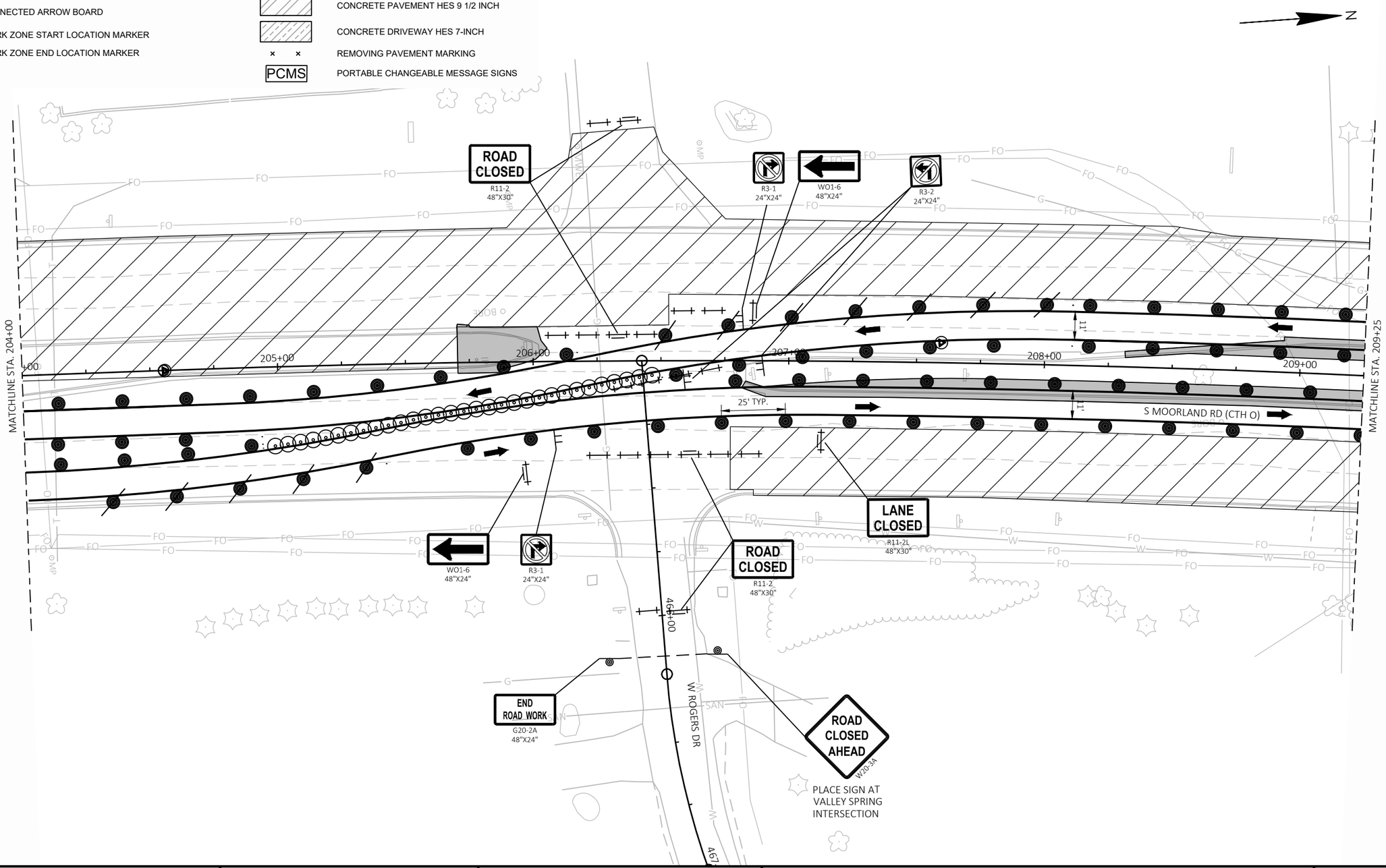
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LAYOUT NAME - 025112-tc

PLOT DATE : 7/23/2026 3:08 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 321 E

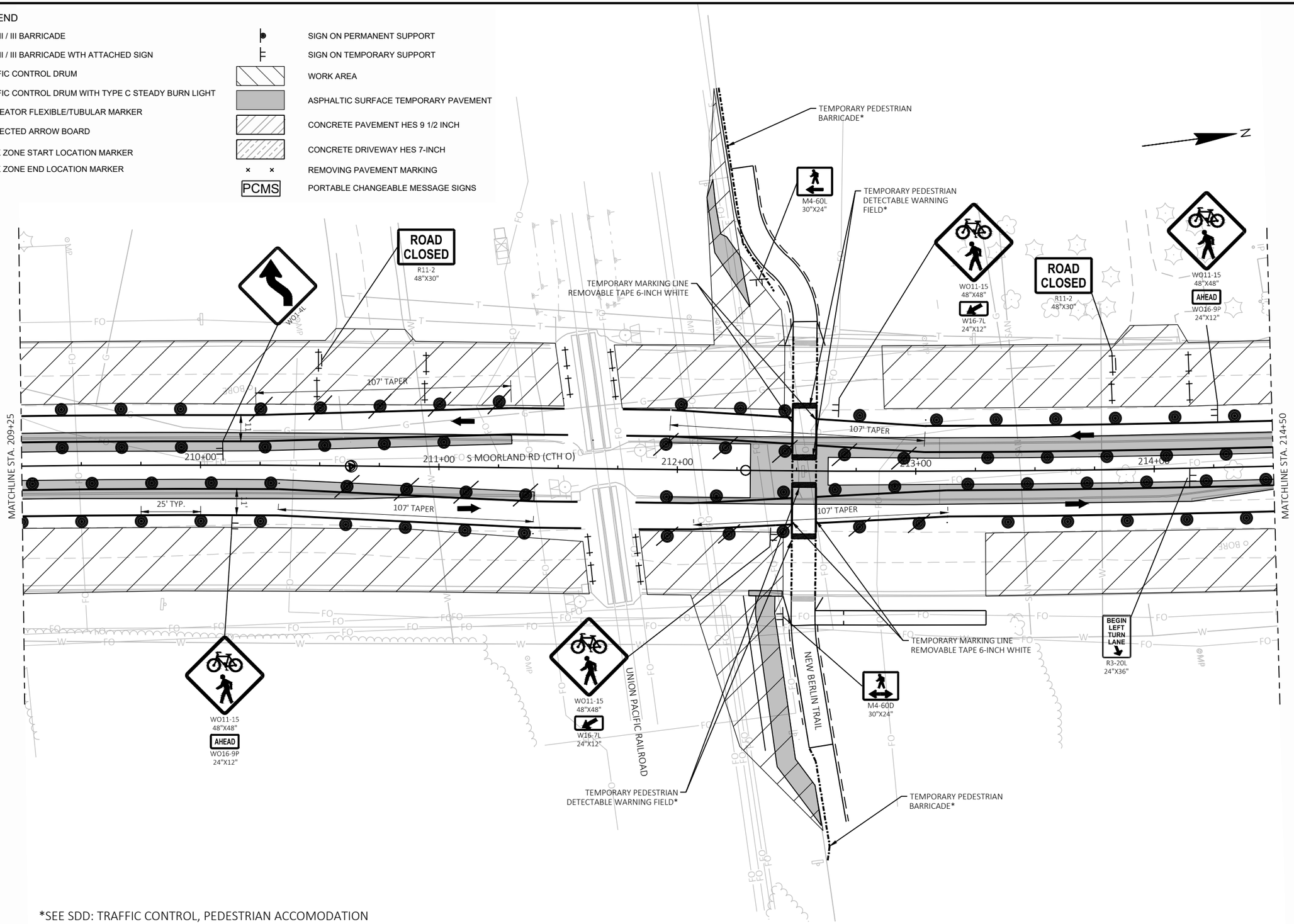
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LAYOUT NAME - 025113-tc

PLOT DATE : 7/23/2026 3:08 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS

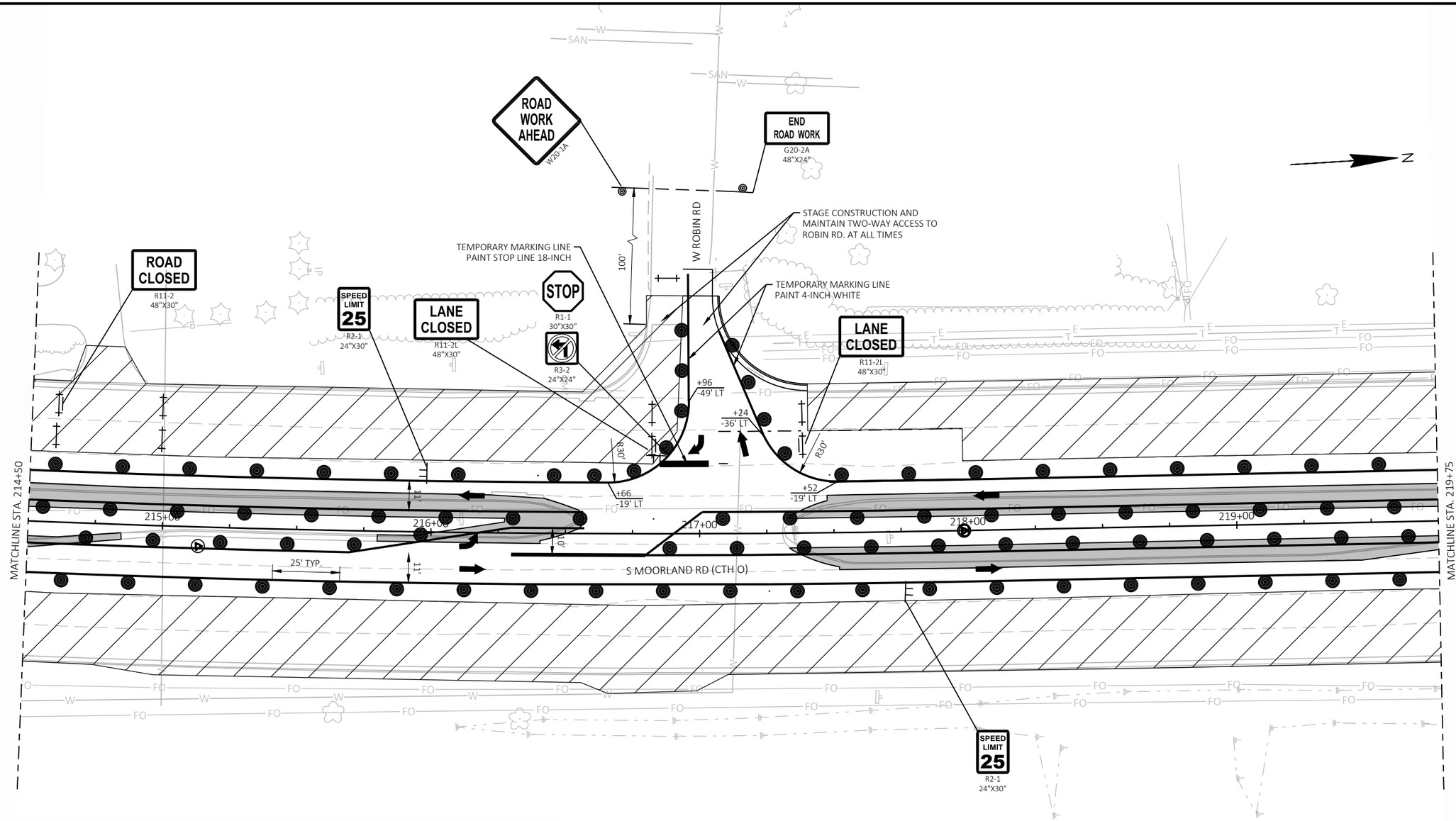


*SEE SDD: TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 322	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025114-tc
PLOT DATE : 7/23/2026 3:08 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

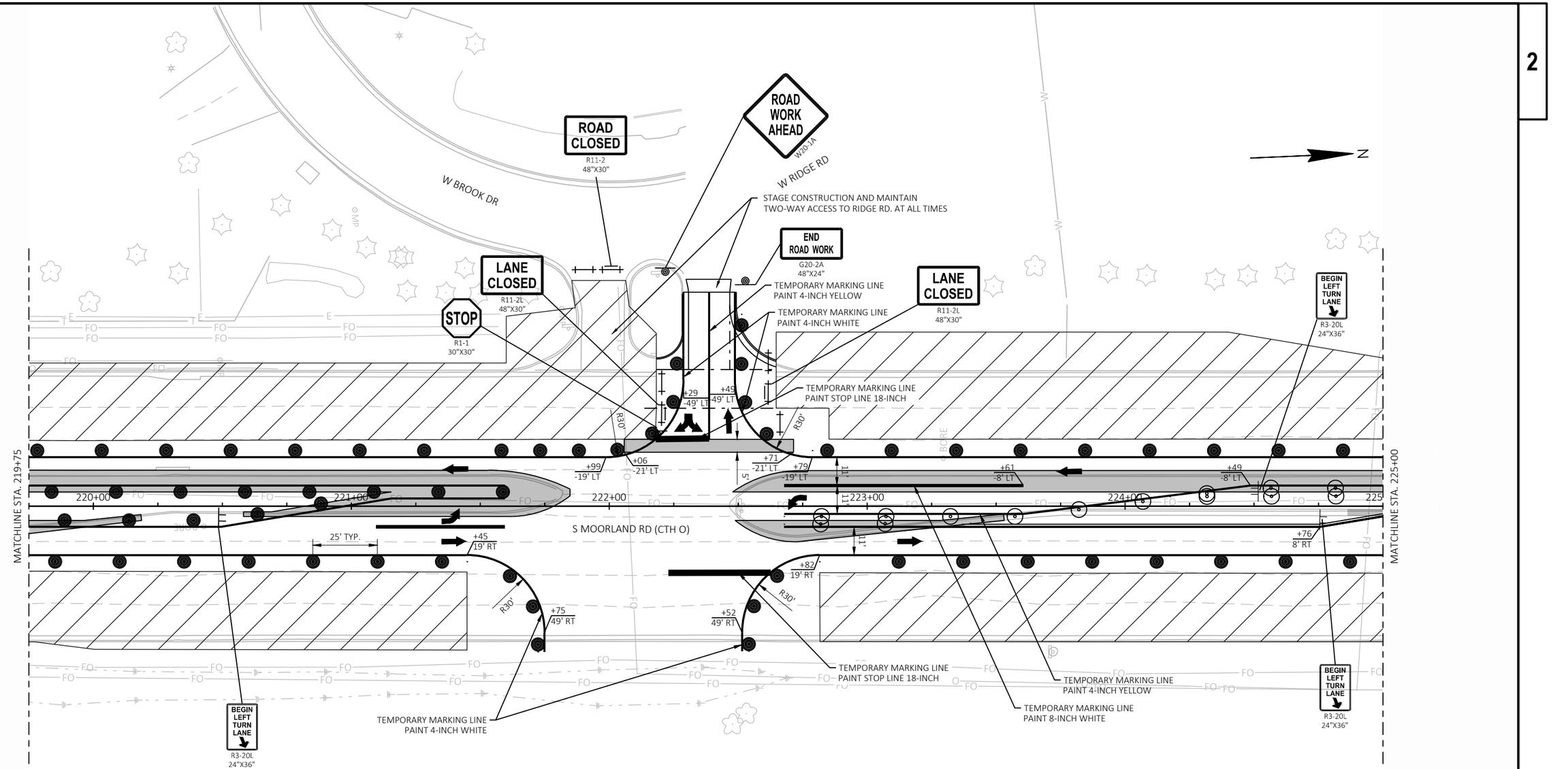


LEGEND

I/‡	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 323	E

2

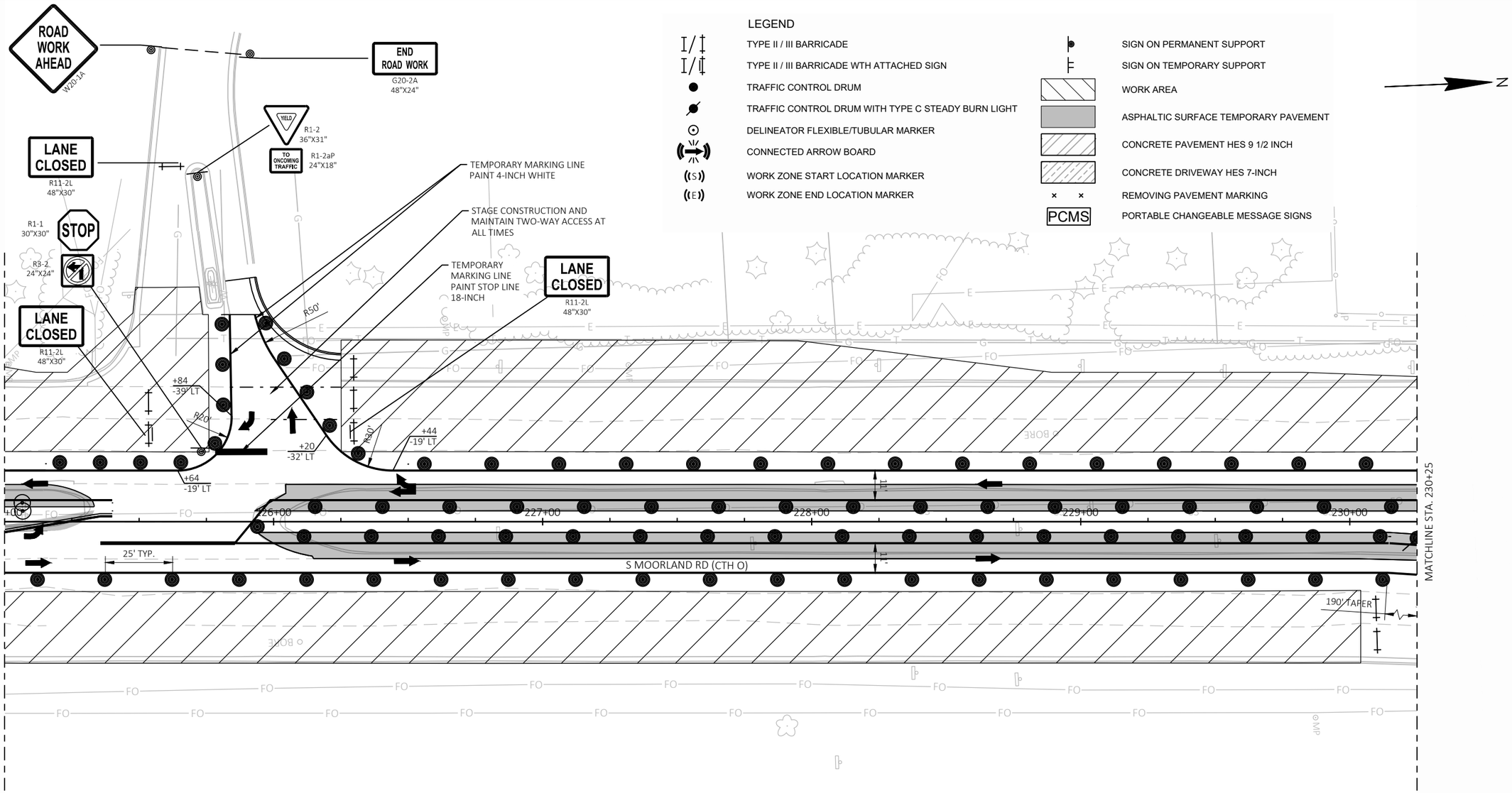


LEGEND

I/‡	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 324	E

2

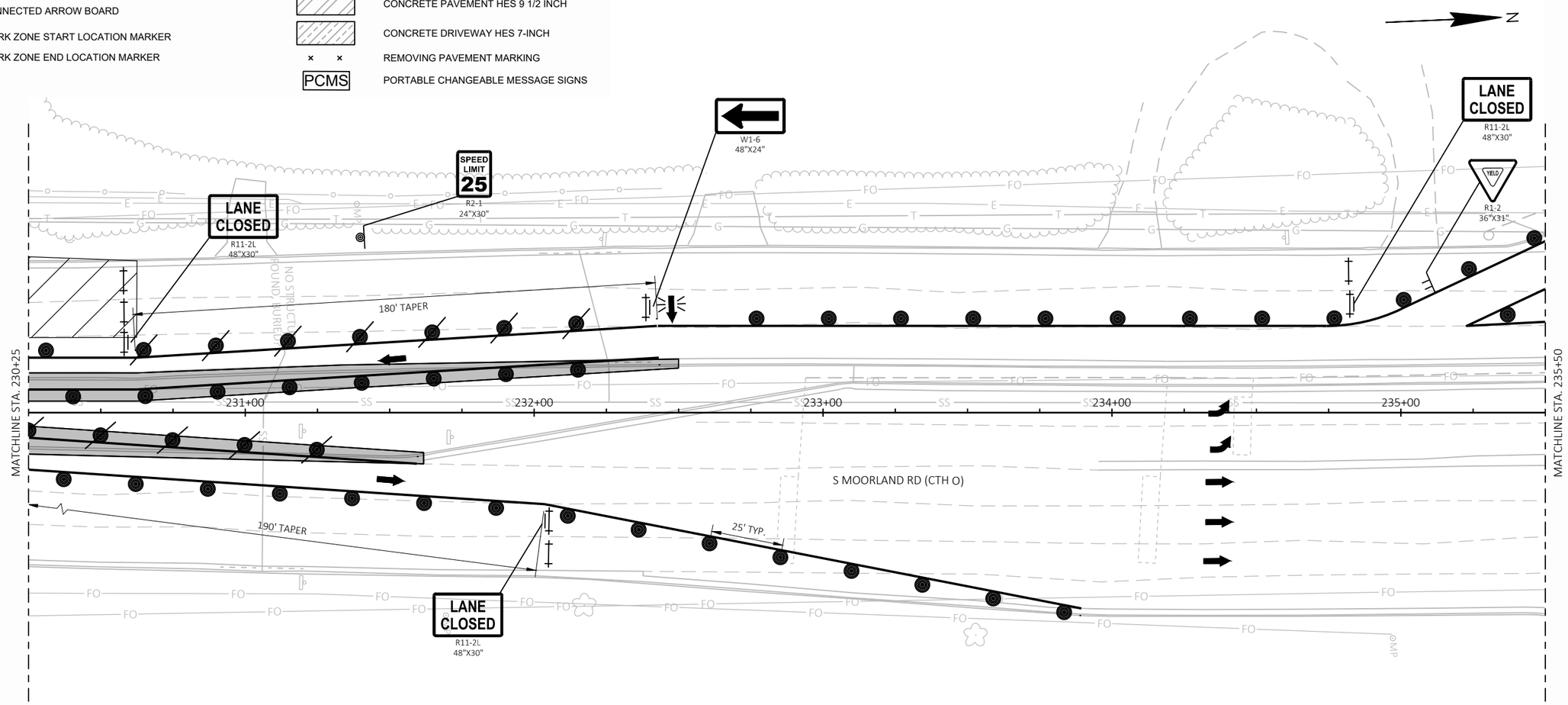


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 325	E

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 326	E

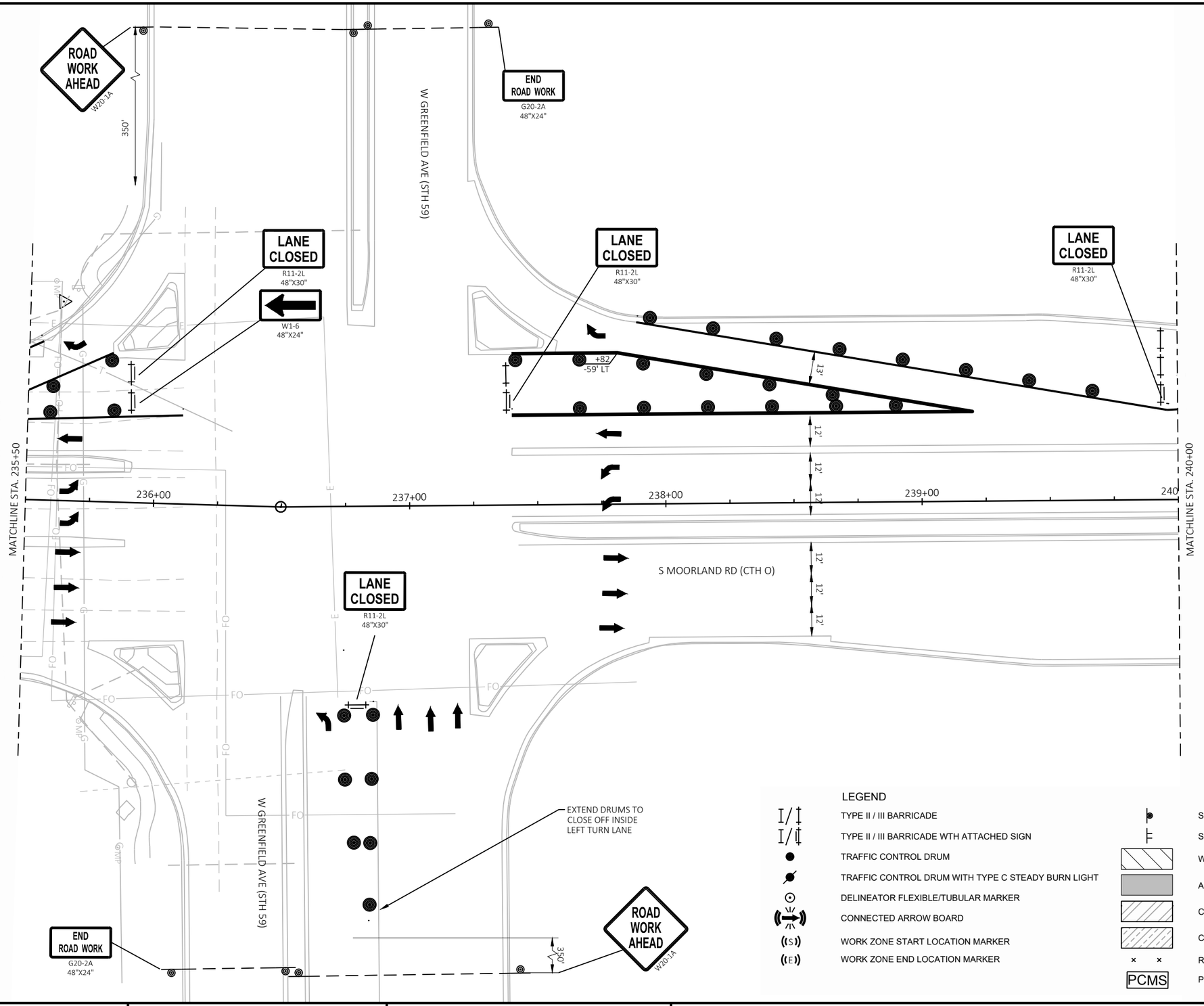
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LAYOUT NAME - 025118-tc

PLOT DATE : 7/23/2026 3:09 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 327	E

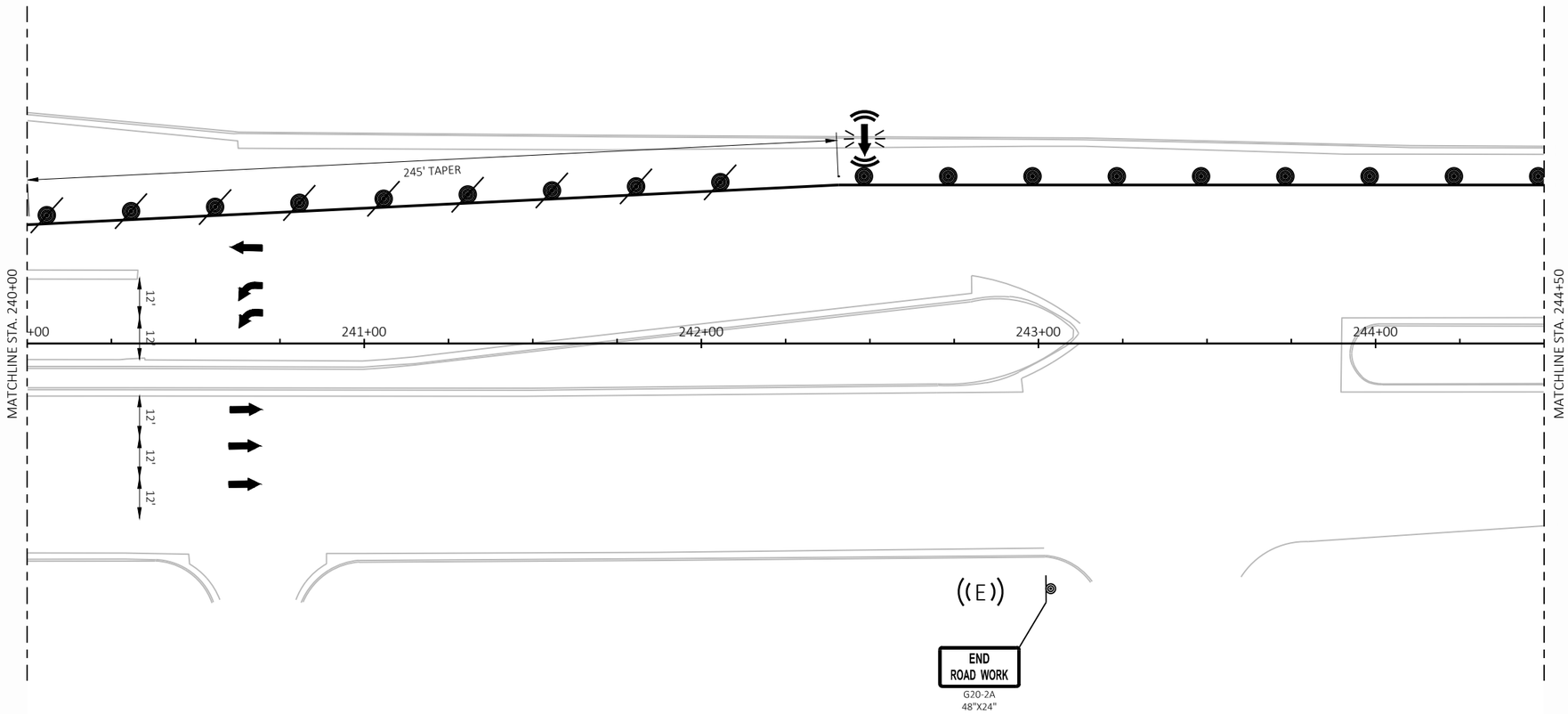
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LAYOUT NAME - 025119-tc

PLOT DATE : 7/23/2026 3:09 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

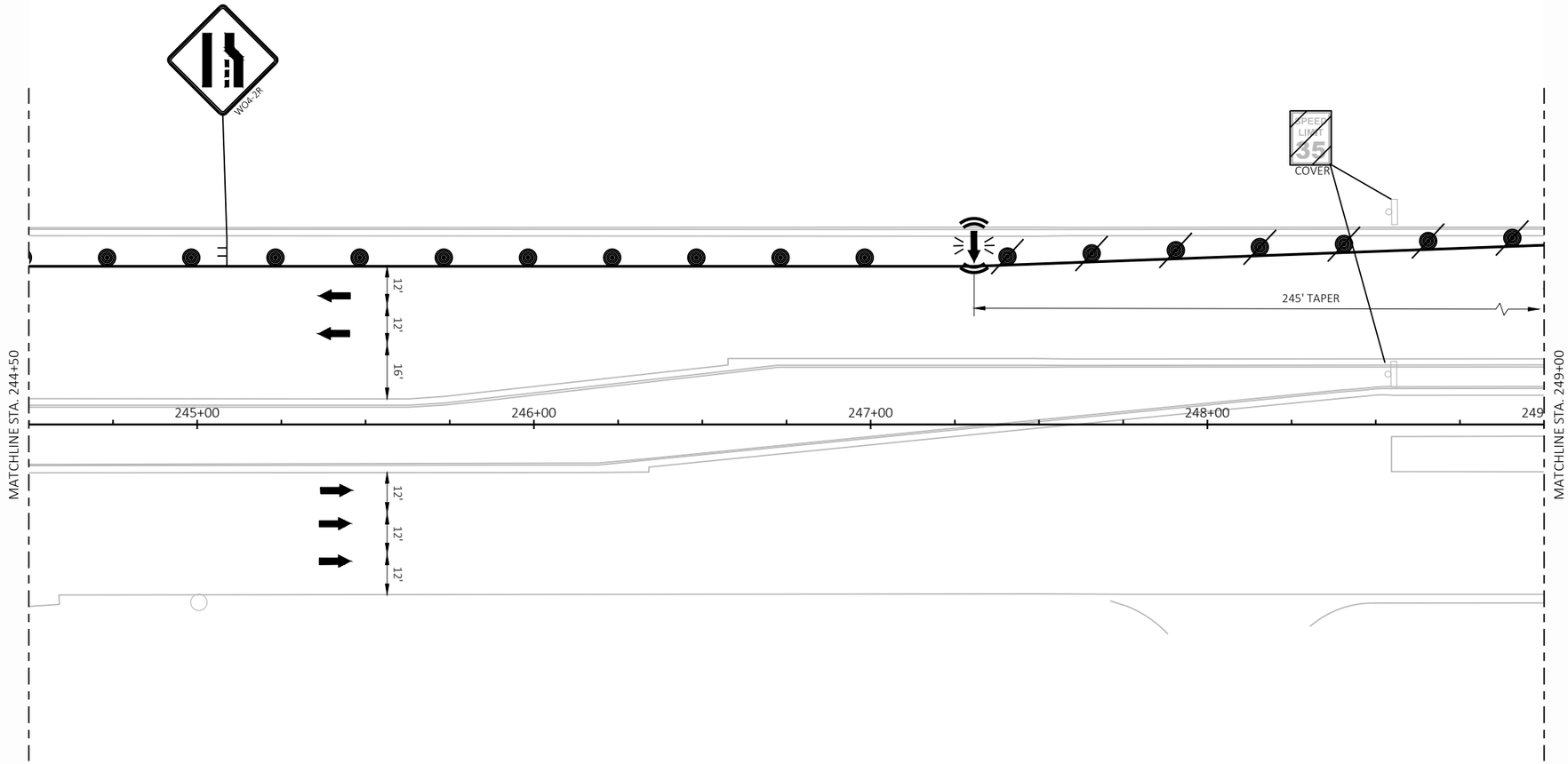
TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N



2

N



LEGEND

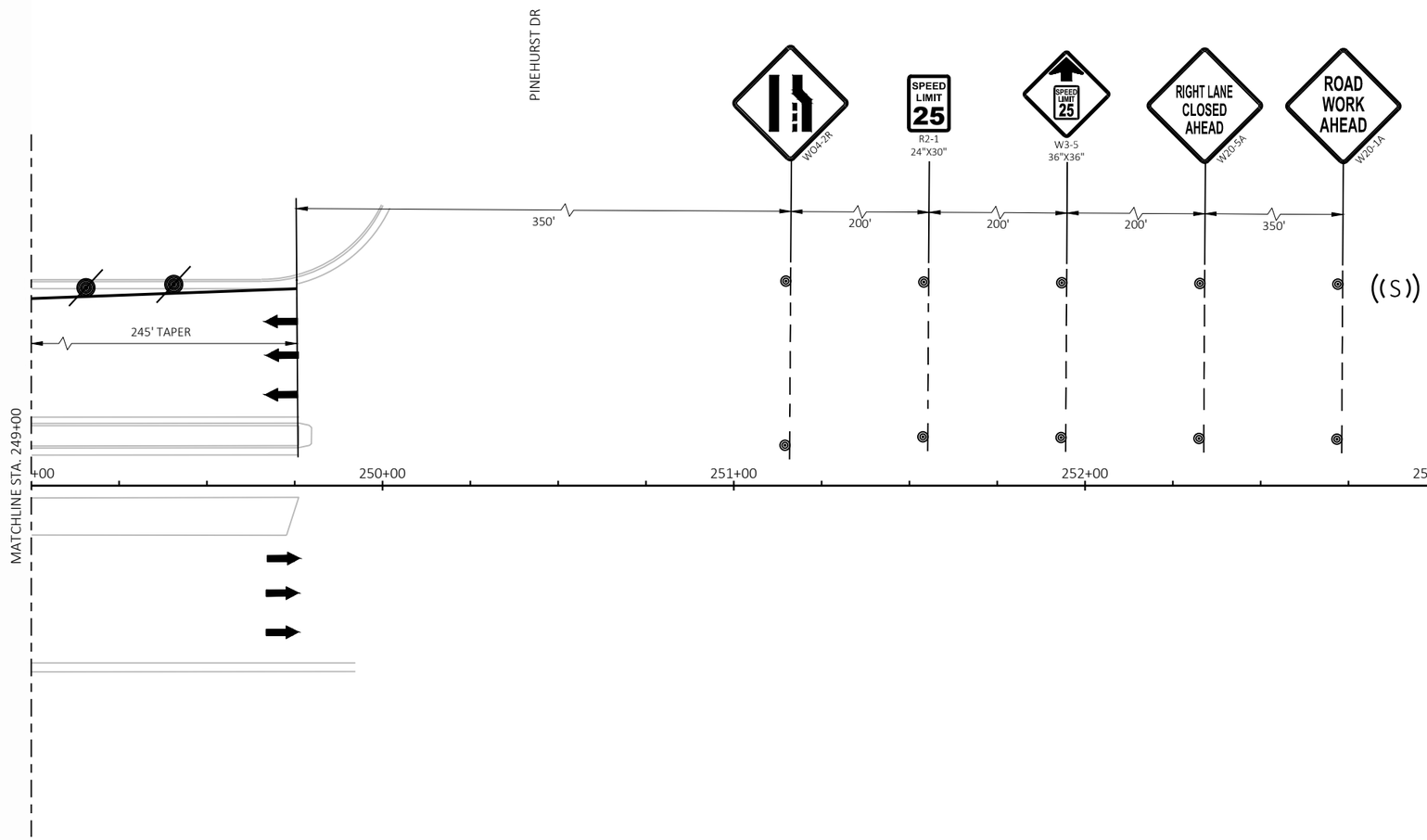
- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 329	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025121-tc
PLOT DATE : 7/23/2026 3:09 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N



LEGEND

	TYPE II / III BARRICADE		SIGN ON PERMANENT SUPPORT
	TYPE II / III BARRICADE WTH ATTACHED SIGN		SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1B	SHEET 330 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_1B.DWG
LAYOUT NAME - 025122-tc

PLOT DATE : 7/23/2026 3:09 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS PORTABLE CHANGEABLE MESSAGE SIGNS

N

W RYERSON RD

END ROAD WORK
G20-2A
48"X24"

141+00 142+00 143+00 144+00 145+00 146+00

MATCHLINE STA. 146+25

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH WHITE

25' TYP.

S MOORLAND RD (CTH O)

320' TAPER

350' 200' 200' 200' 350'

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

SPEED LIMIT 25
W03-5

SPEED LIMIT 25
R2-1
24"X30"

W04-2R

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 331	E

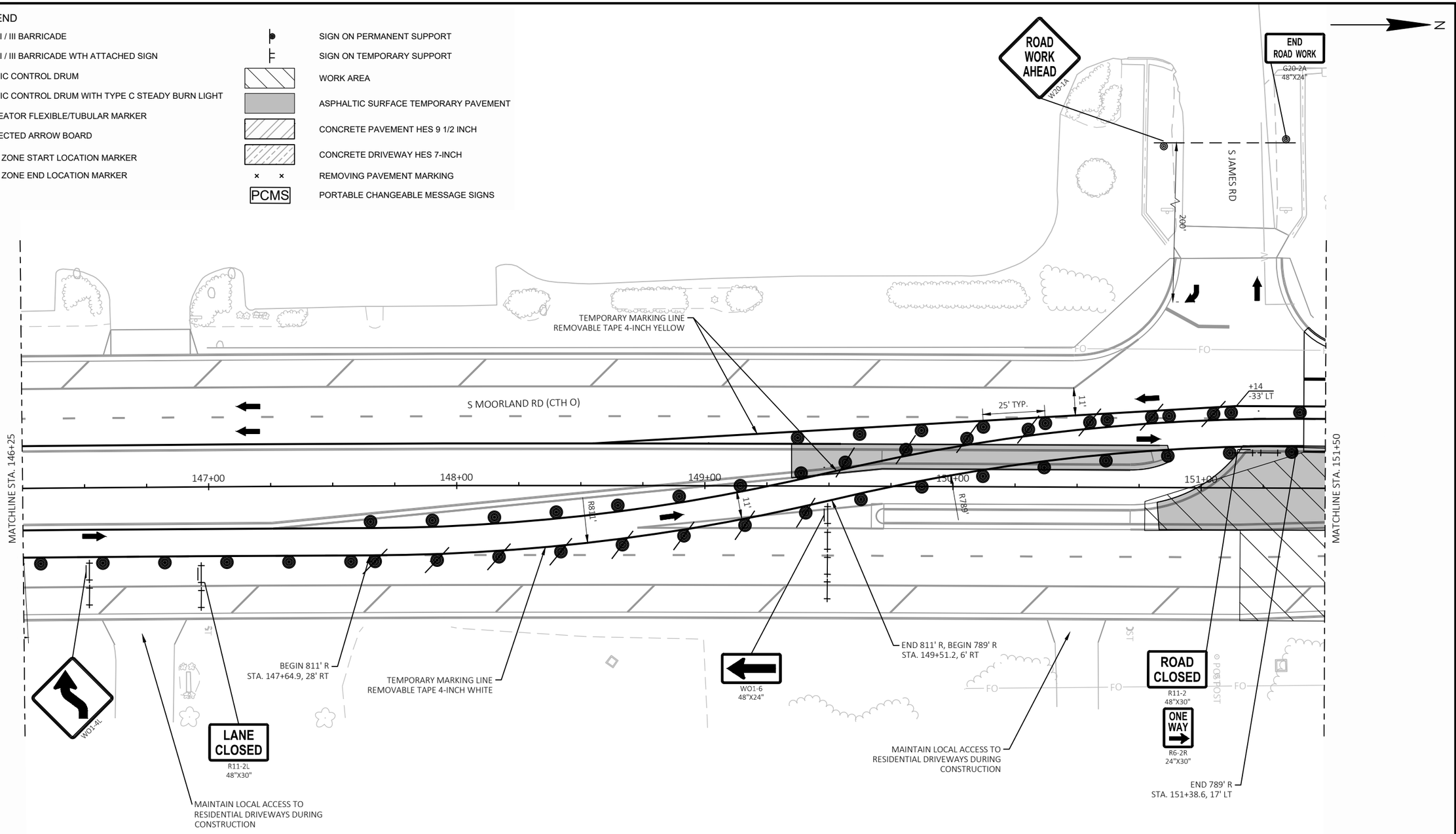
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LAYOUT NAME - 025101-tc

PLOT DATE : 7/23/2026 3:09 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

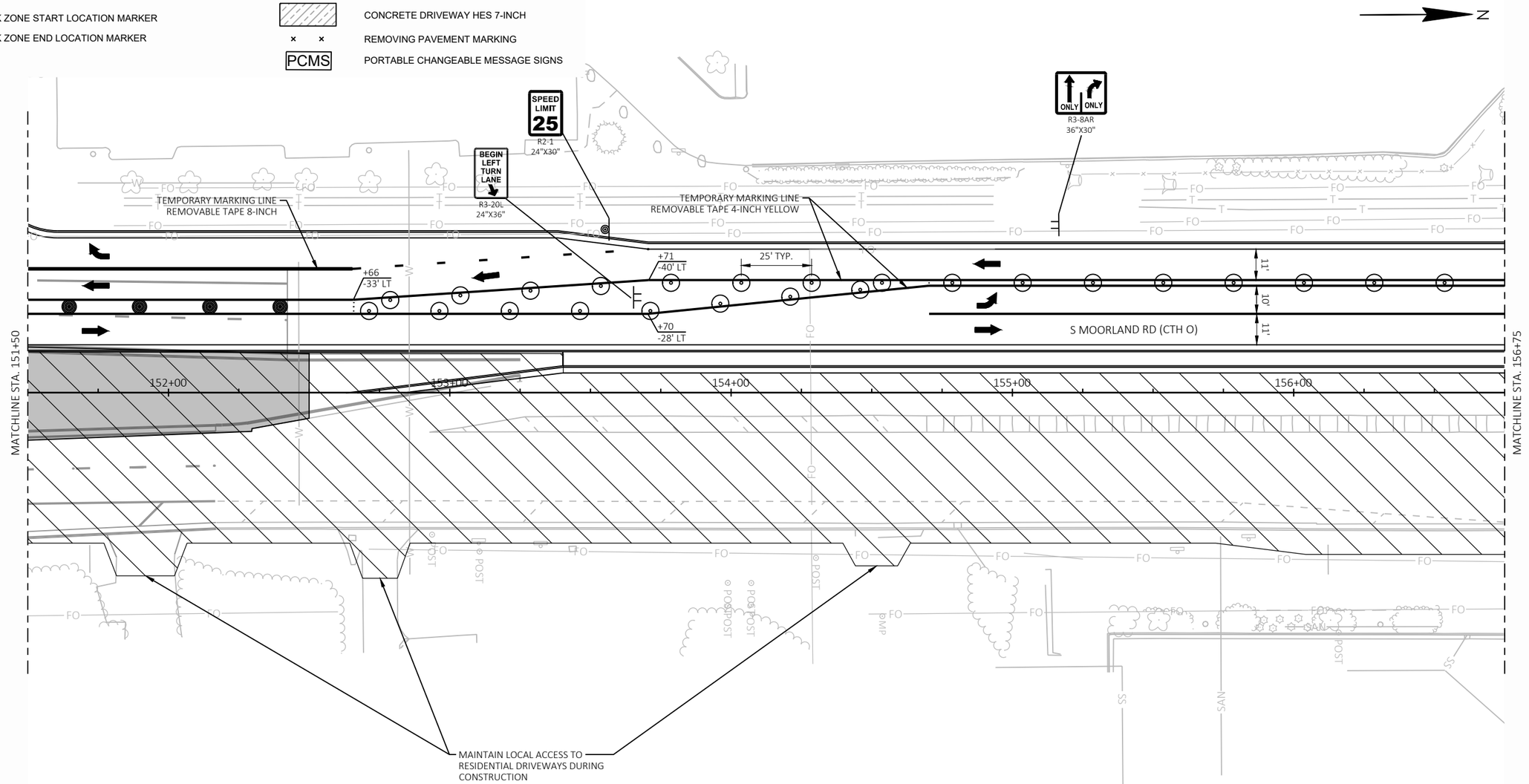


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 332	E

2

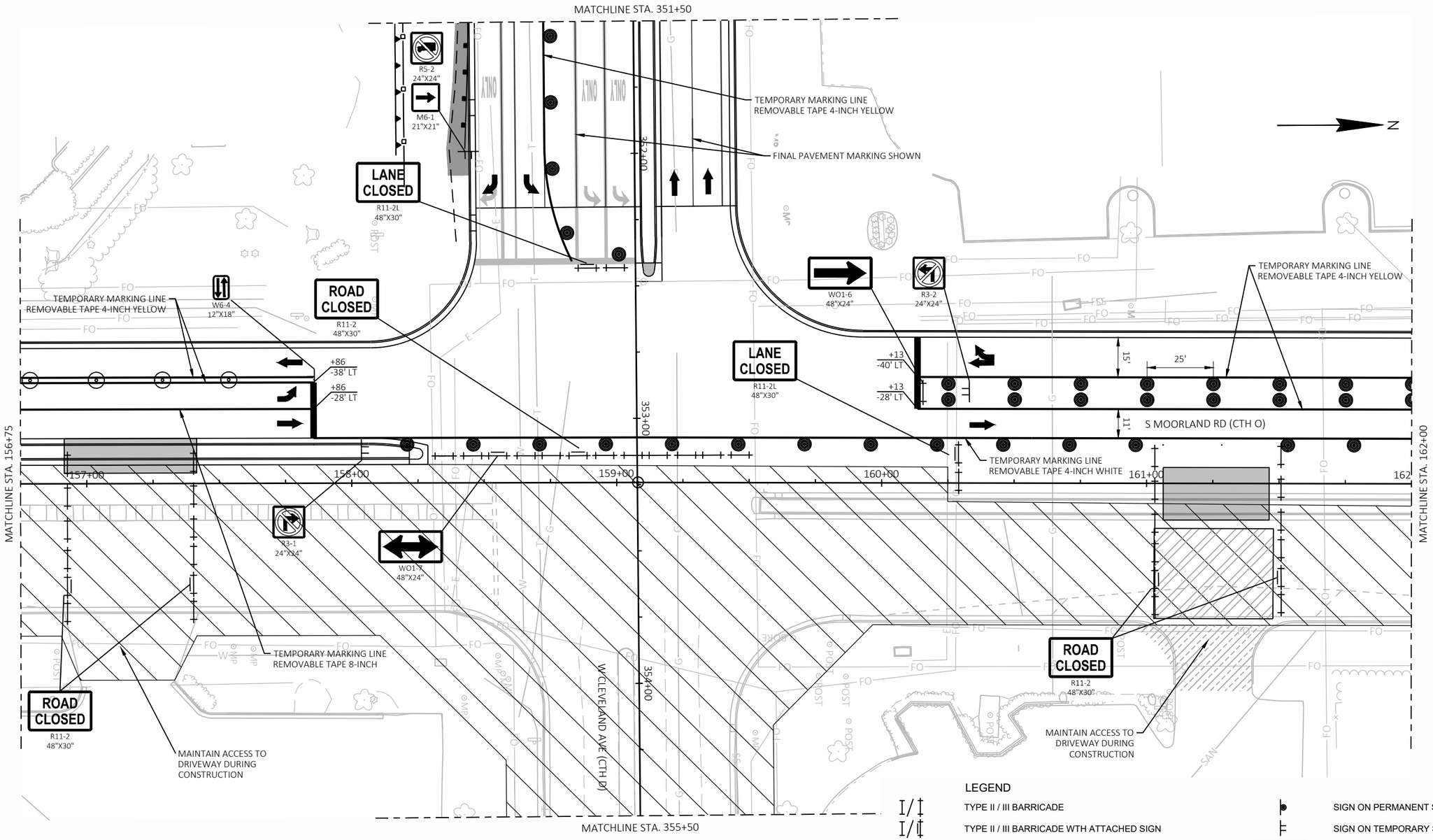
LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 333	E

2



LEGEND

	TYPE II / III BARRICADE		SIGN ON PERMANENT SUPPORT
	TYPE II / III BARRICADE WTH ATTACHED SIGN		SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

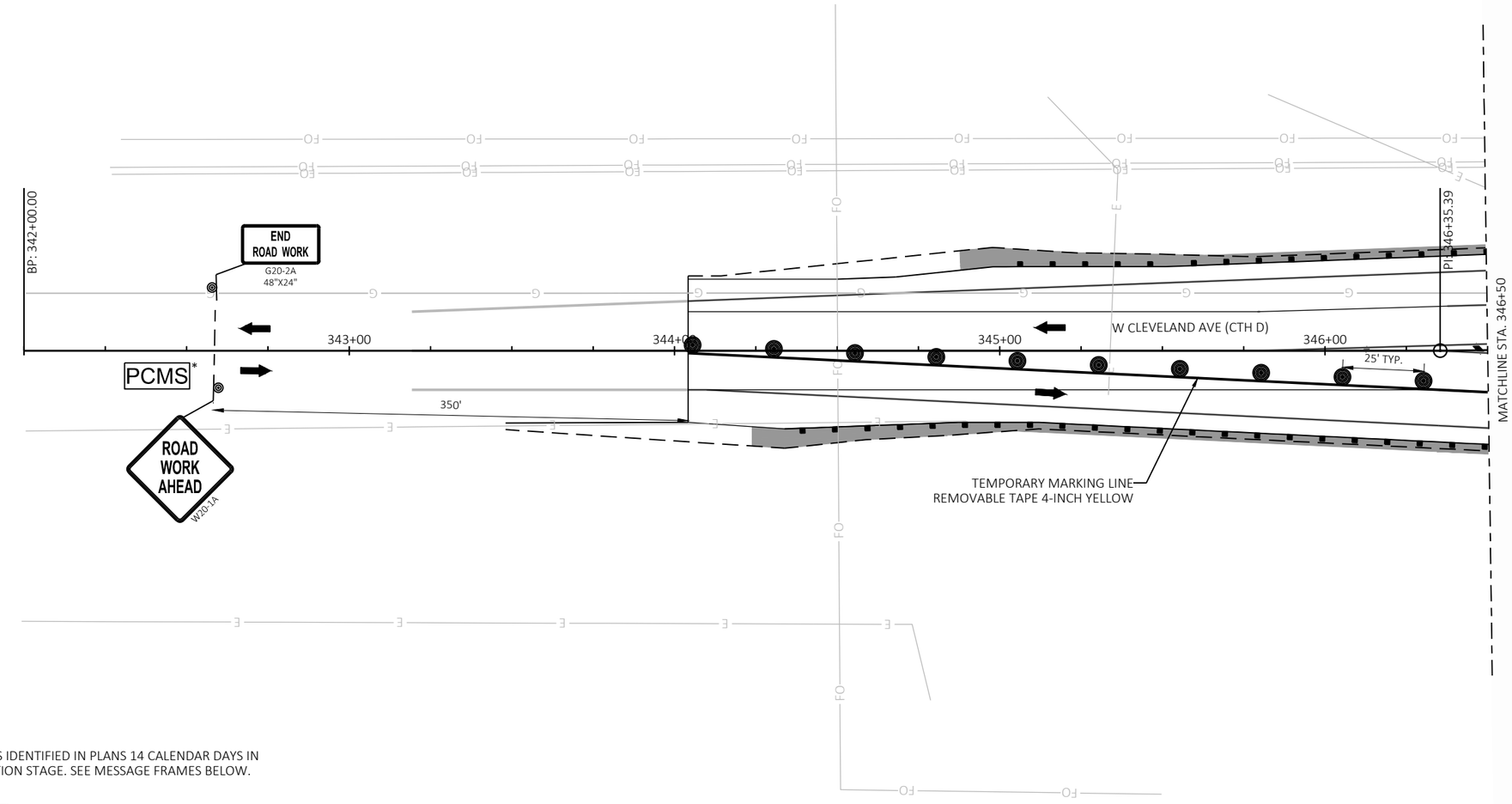
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 334	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025104-tc
PLOT DATE : 7/23/2026 3:10 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N



*NOTE: PLACE A PCMS SIGN AS IDENTIFIED IN PLANS 14 CALENDAR DAYS IN ADVANCE OF CONSTRUCTION STAGE. SEE MESSAGE FRAMES BELOW.

FRAME 1	FRAME 2
ROAD TO CLOSE	XXXDAY XX / XX

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 335	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025104a-tc
PLOT DATE : 7/23/2026 3:10 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

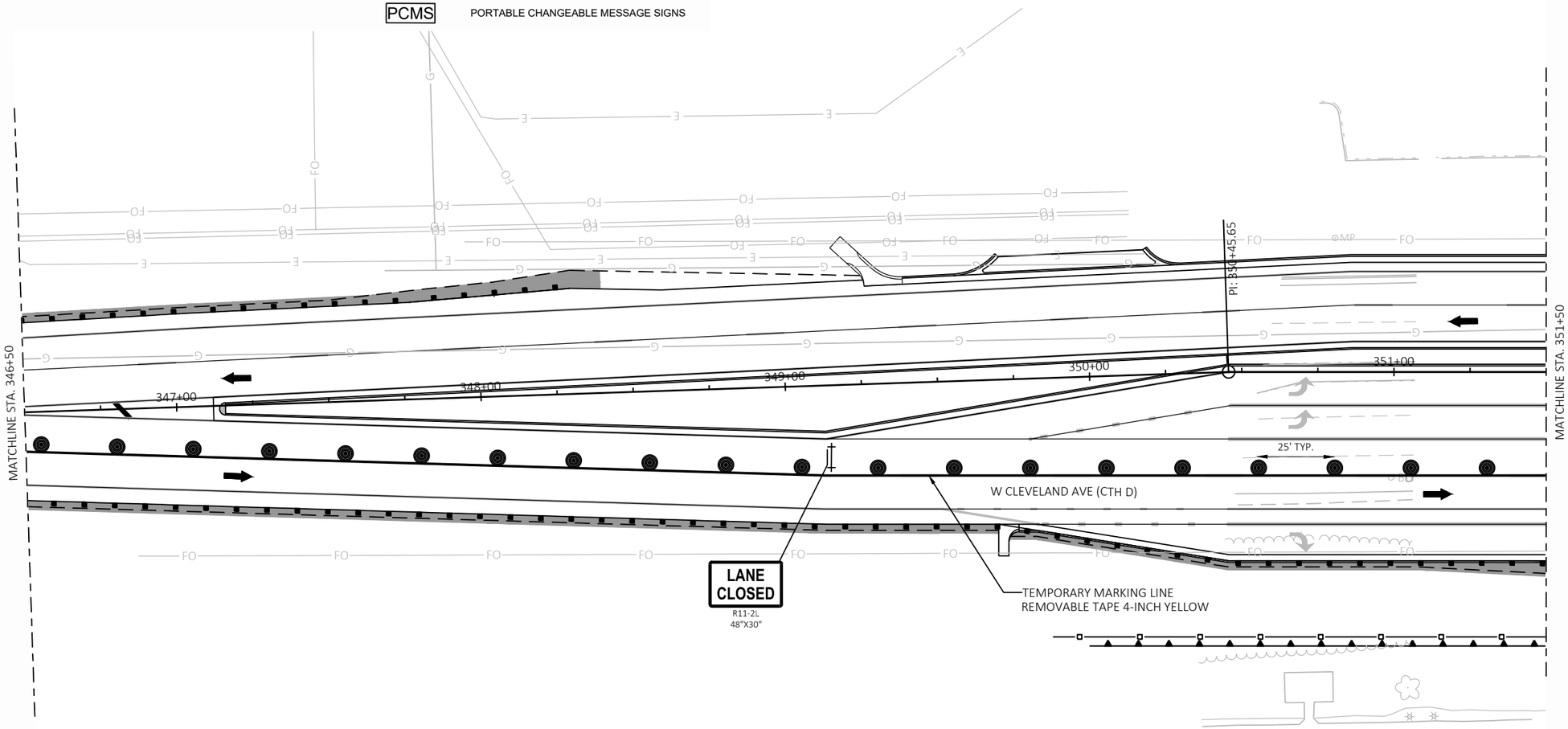
2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 336 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025104b-tc

PLOT DATE : 7/23/2026 3:10 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

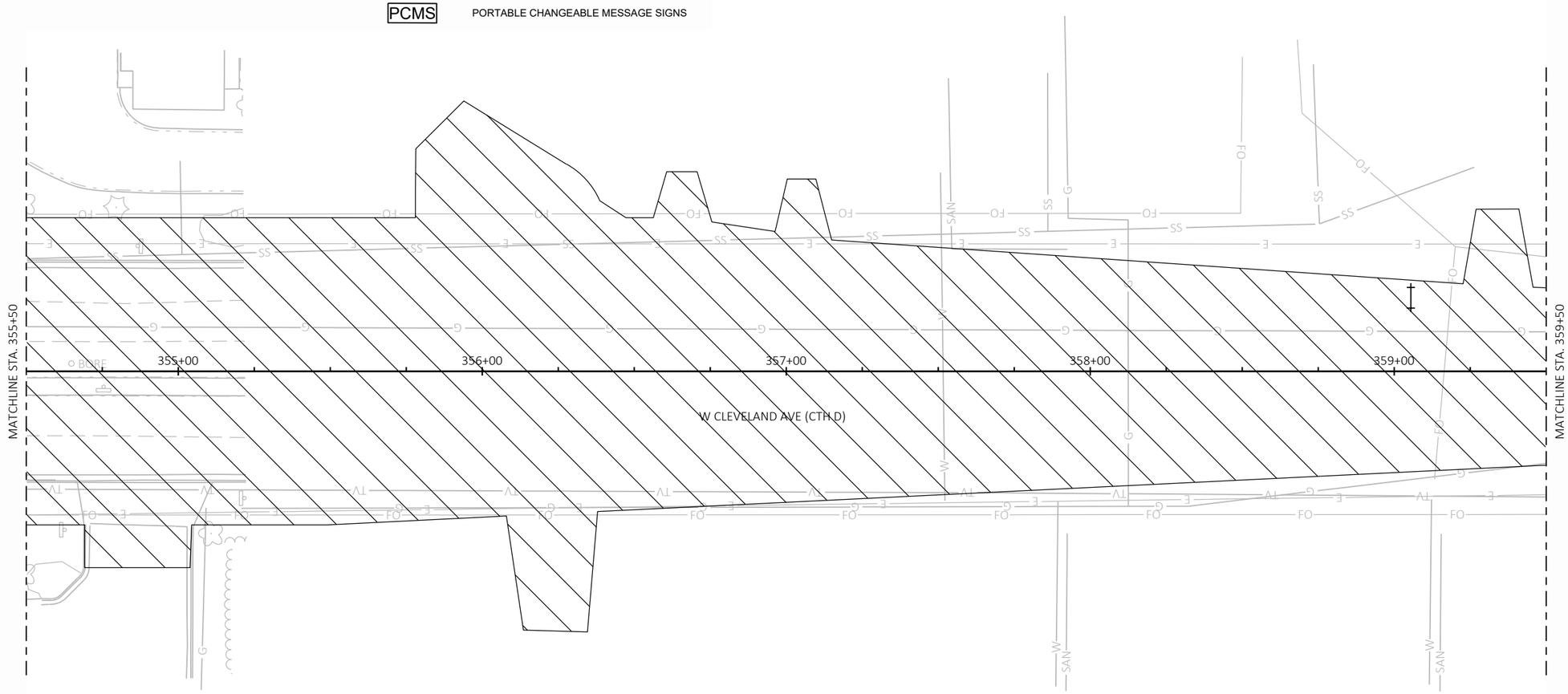
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LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 337	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025104c-tc

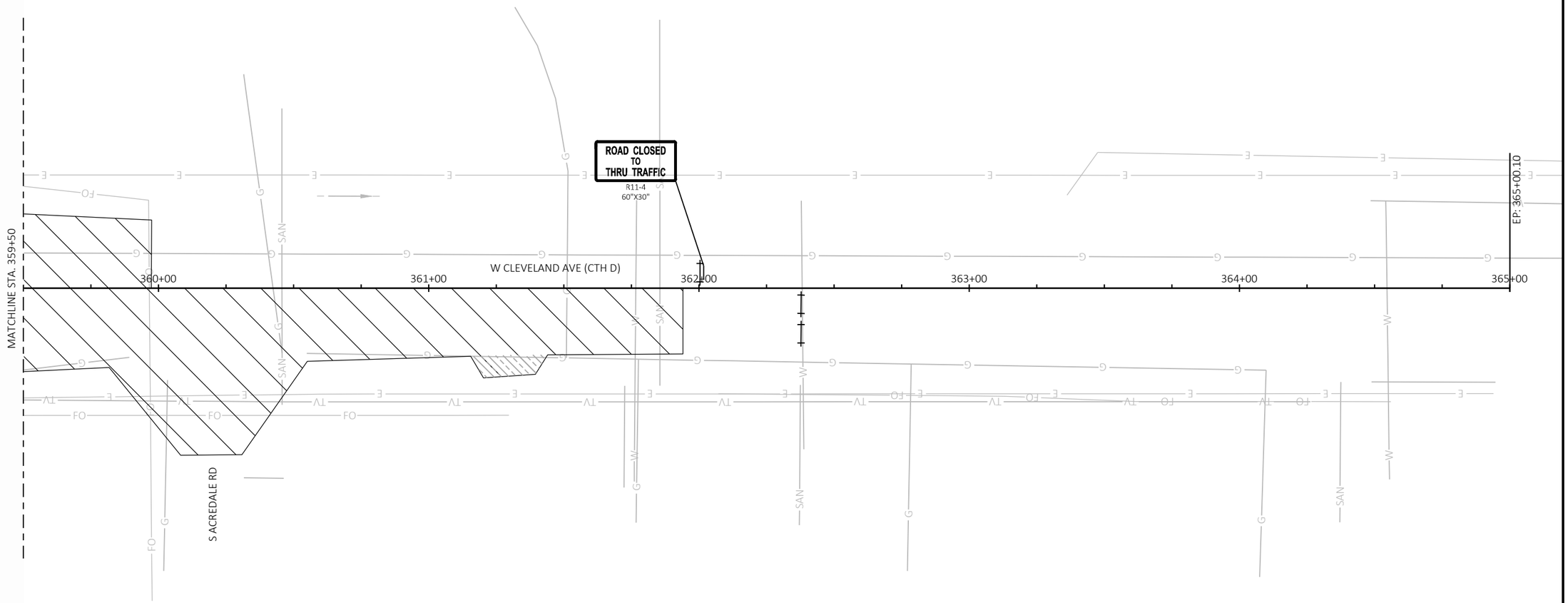
PLOT DATE : 7/23/2026 3:10 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 338	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025104d-tc

PLOT DATE : 7/24/2026 12:33 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

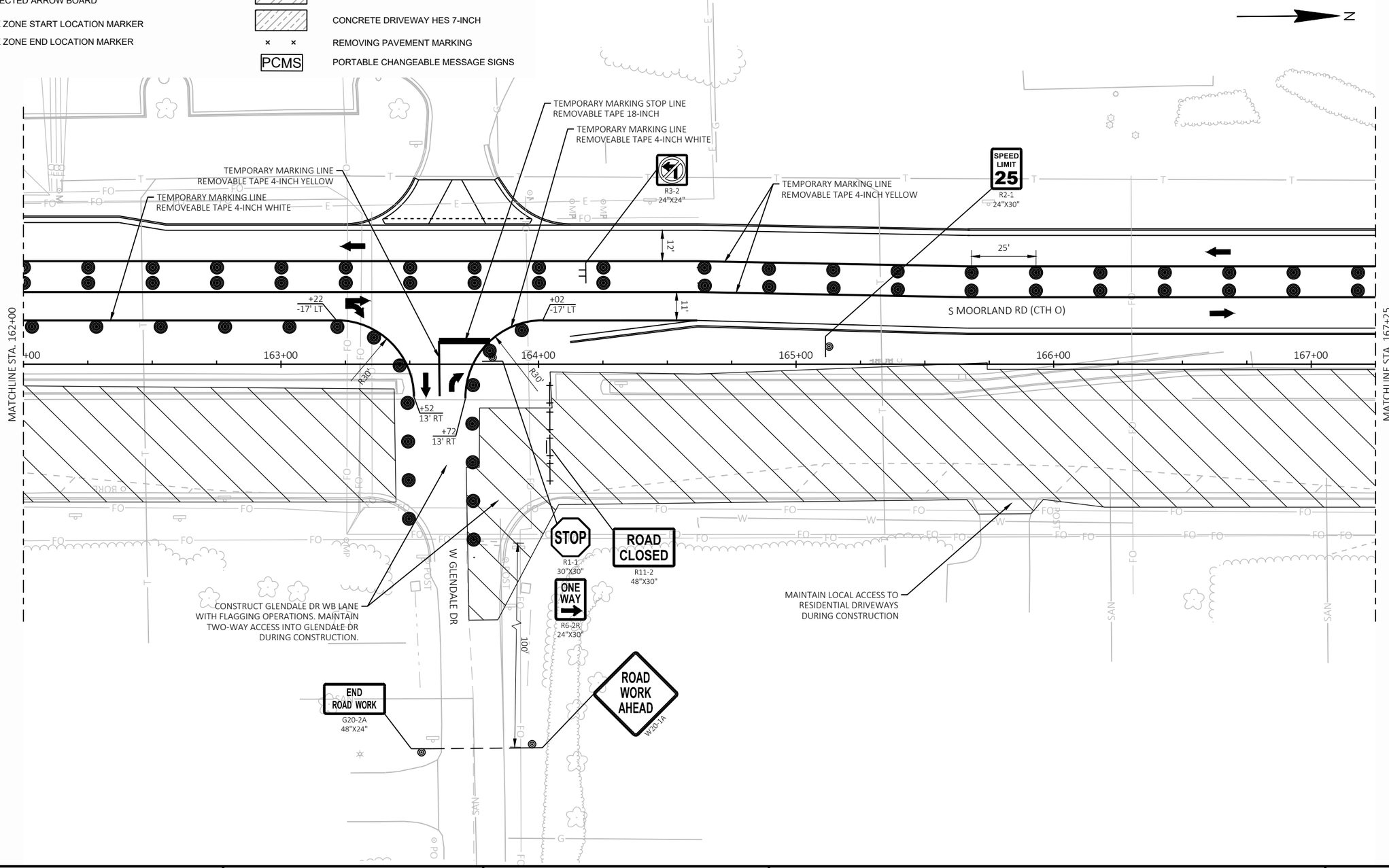
WISDOT/CADDS SHEET 42

2

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 339	E

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LAYOUT NAME - 025105-tc

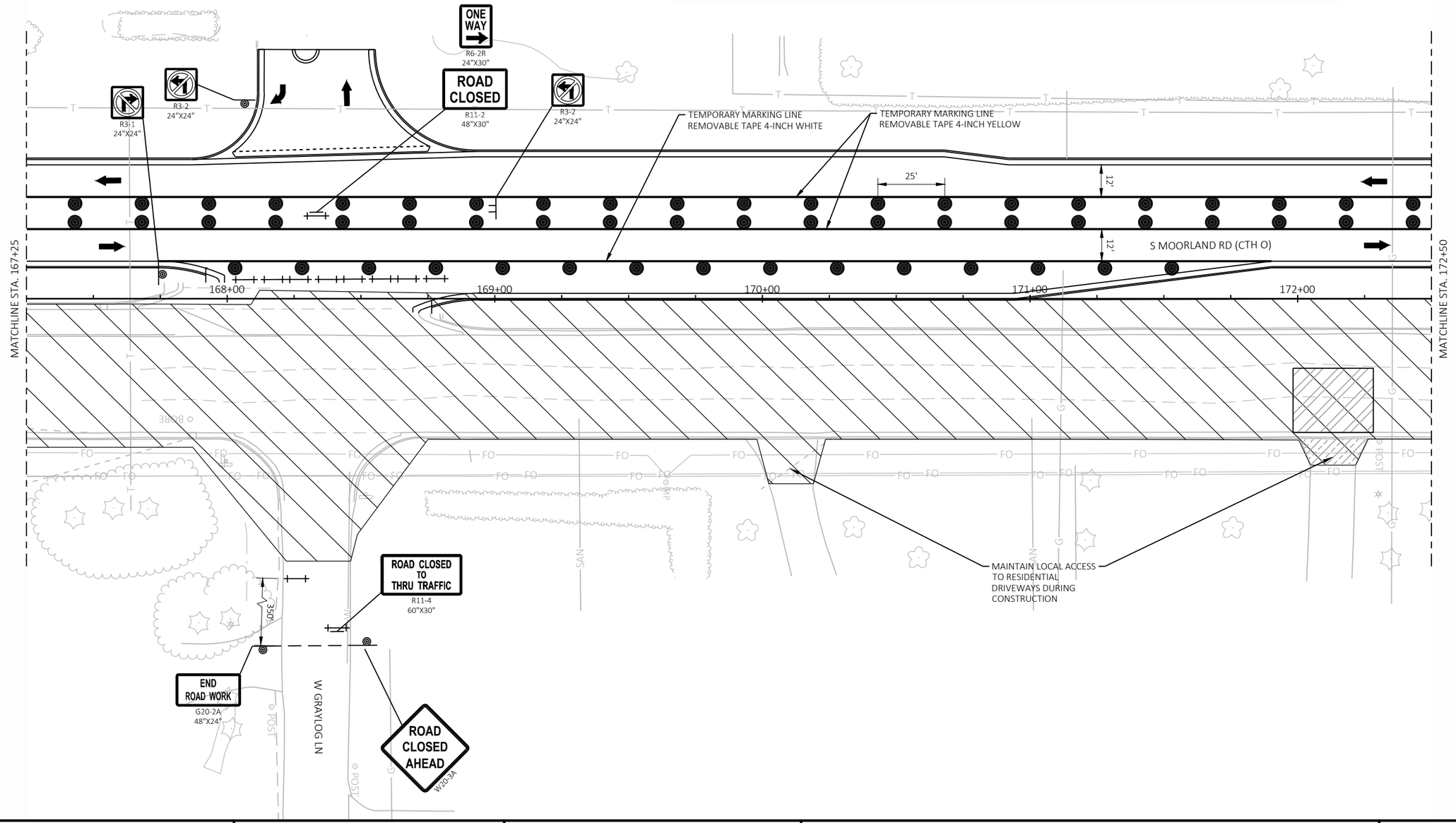
PLOT DATE : 7/23/2026 3:10 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PORTABLE CHANGEABLE MESSAGE SIGNS

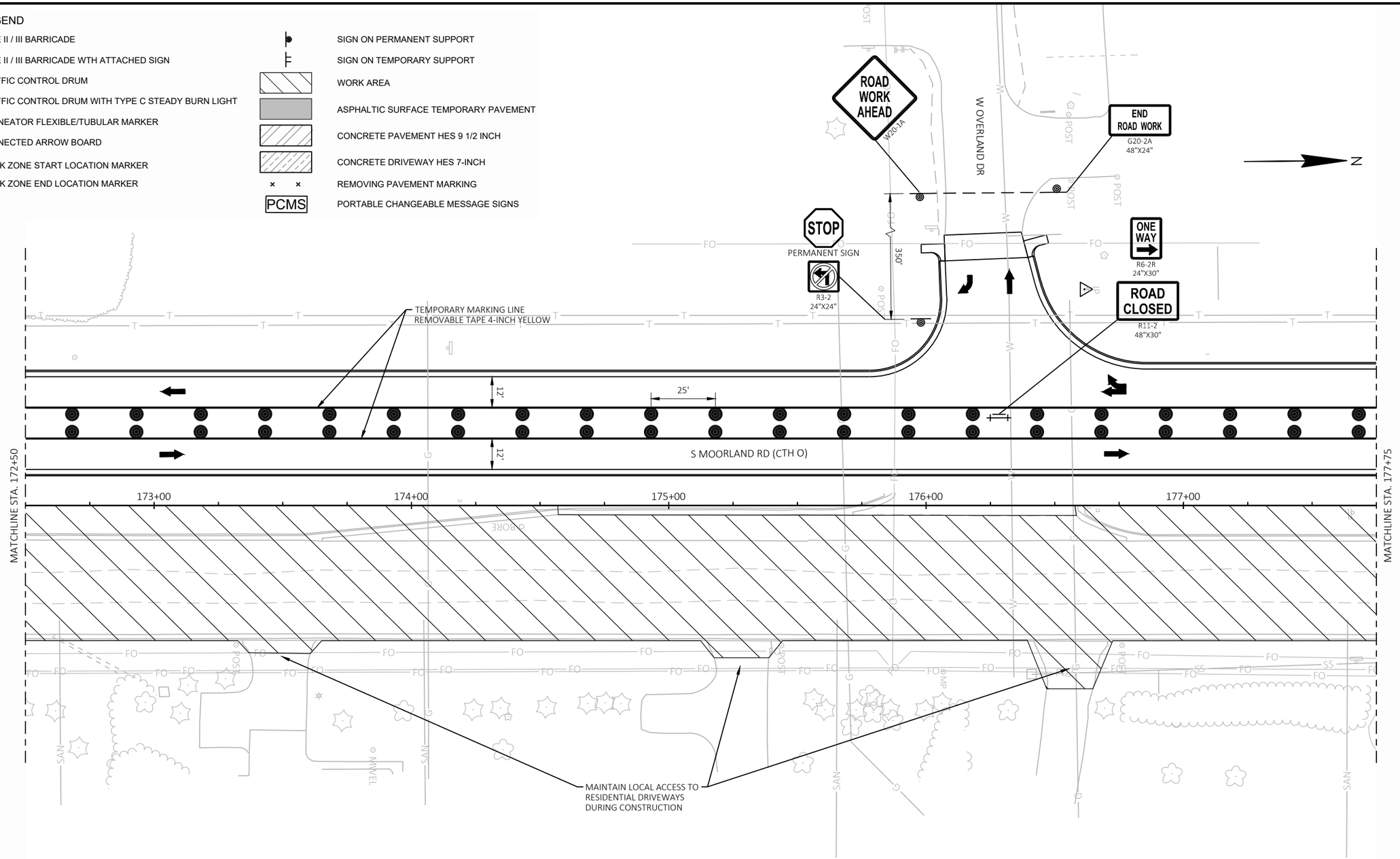
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 340	E

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 341	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025107-tc

PLOT DATE : 7/23/2026 3:10 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

I/‡	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	‡	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
((→))	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
((S))	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
((E))	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

N

SPEED LIMIT 25
R2-1
24"X30"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH YELLOW

BEGIN LEFT TURN LANE
R3-20L
24"X36"

12'

12'

25'

+82
-36' LT

+94
-26' LT

S MOORLAND RD (CTH O)

MATCHLINE STA. 177+75

MATCHLINE STA. 183+00

178+00 179+00 180+00 181+00 182+00 183

MAINTAIN LOCAL ACCESS TO
RESIDENTIAL DRIVEWAYS
DURING CONSTRUCTION

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

350'

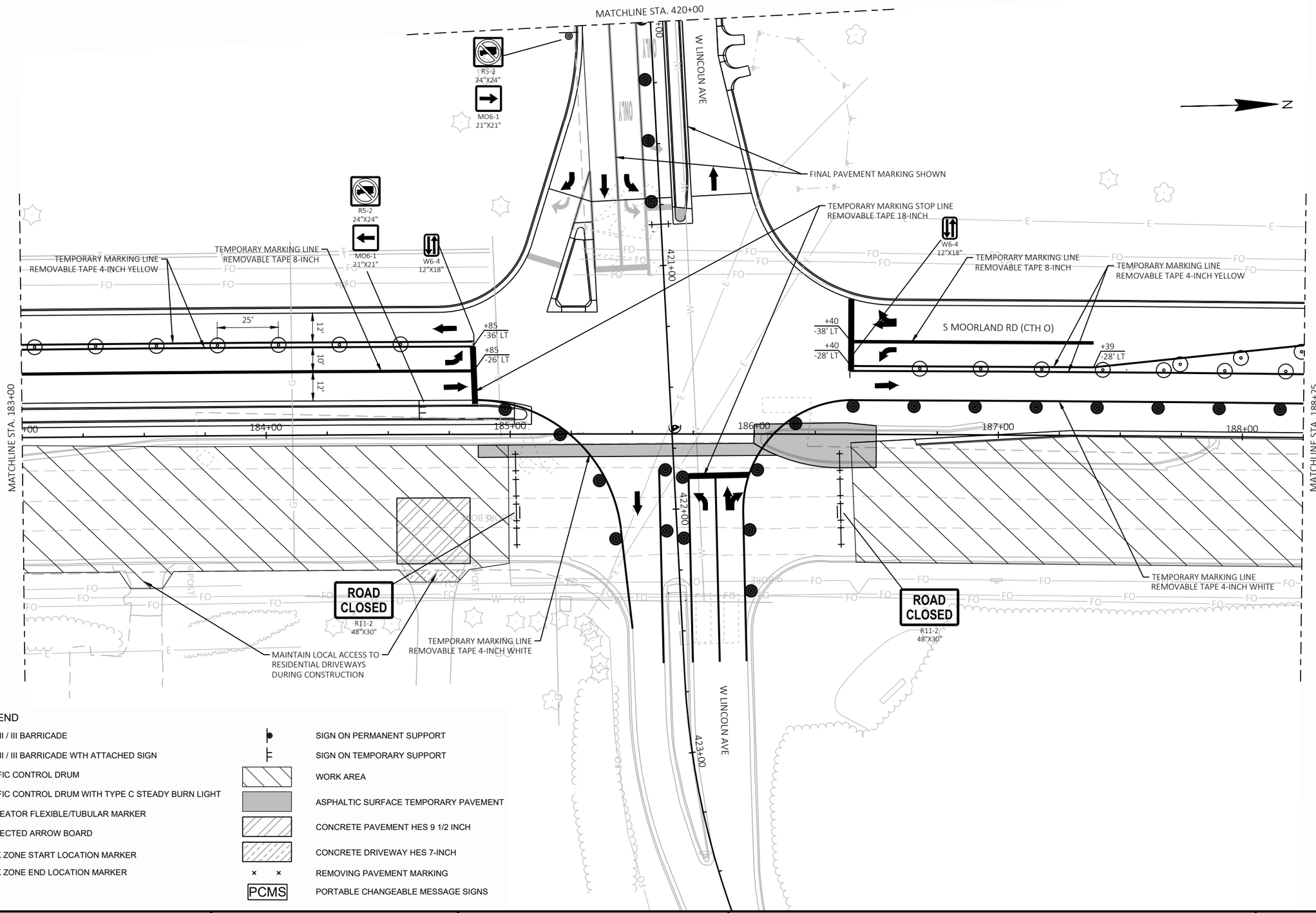
W SCHNEIDER LN

END ROAD WORK
G20-2A
48"X24"

ROAD CLOSED AHEAD
W20-3A

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 342	E

2



LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 343 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025109-tc

PLOT DATE : 7/23/2026 3:11 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

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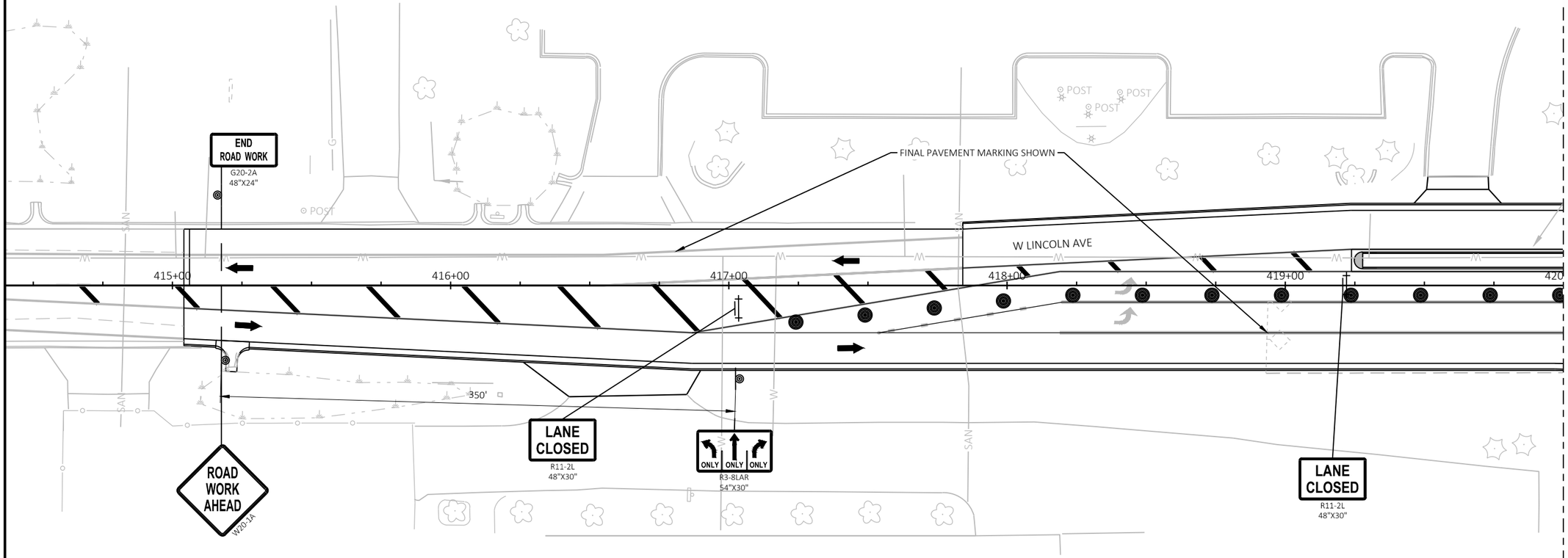
LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PORTABLE CHANGEABLE MESSAGE SIGNS

PCMS

N

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 344	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025109a-tc

PLOT DATE : 7/23/2026 3:11 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

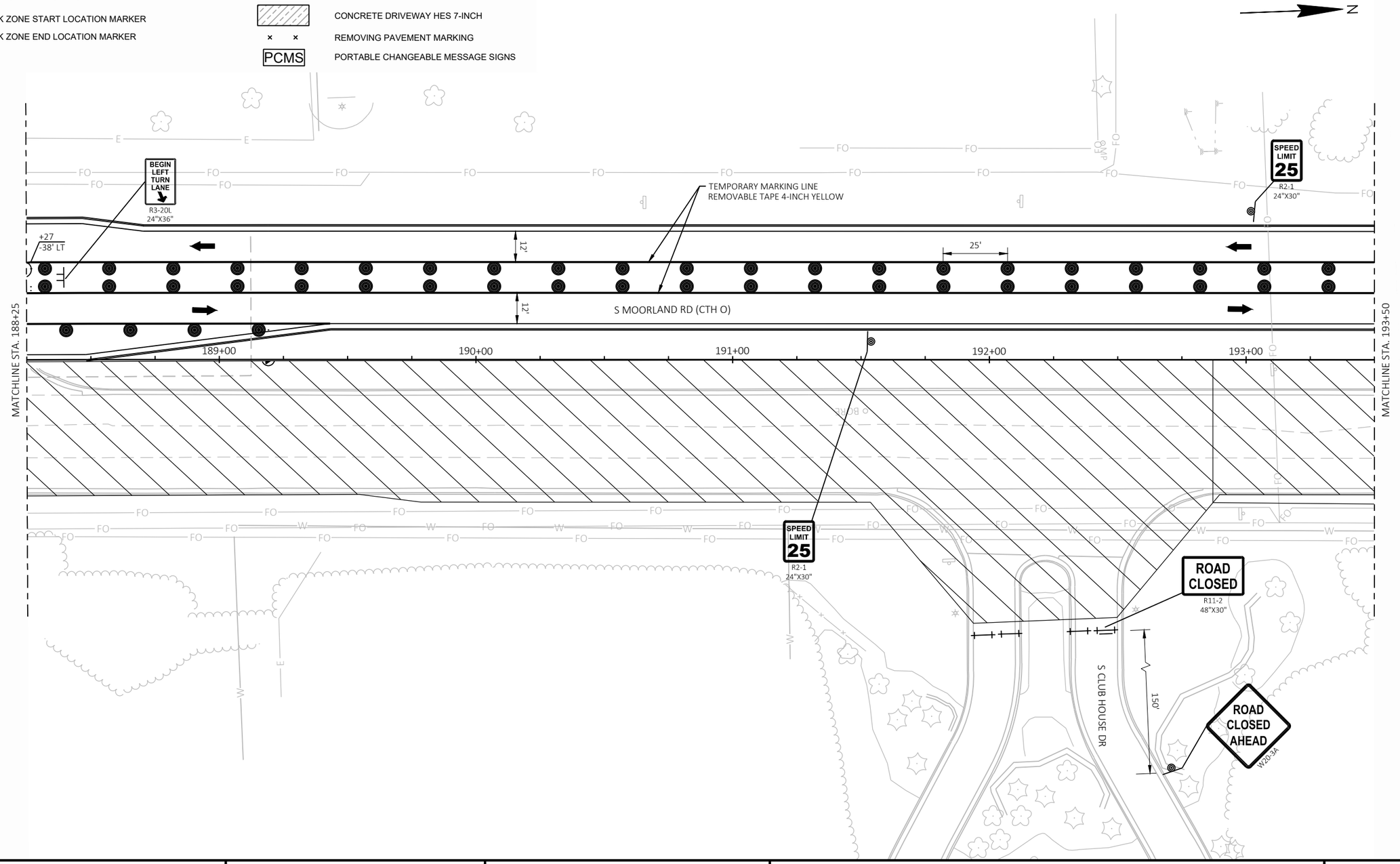
WISDOT/CADDS SHEET 42

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2

LEGEND

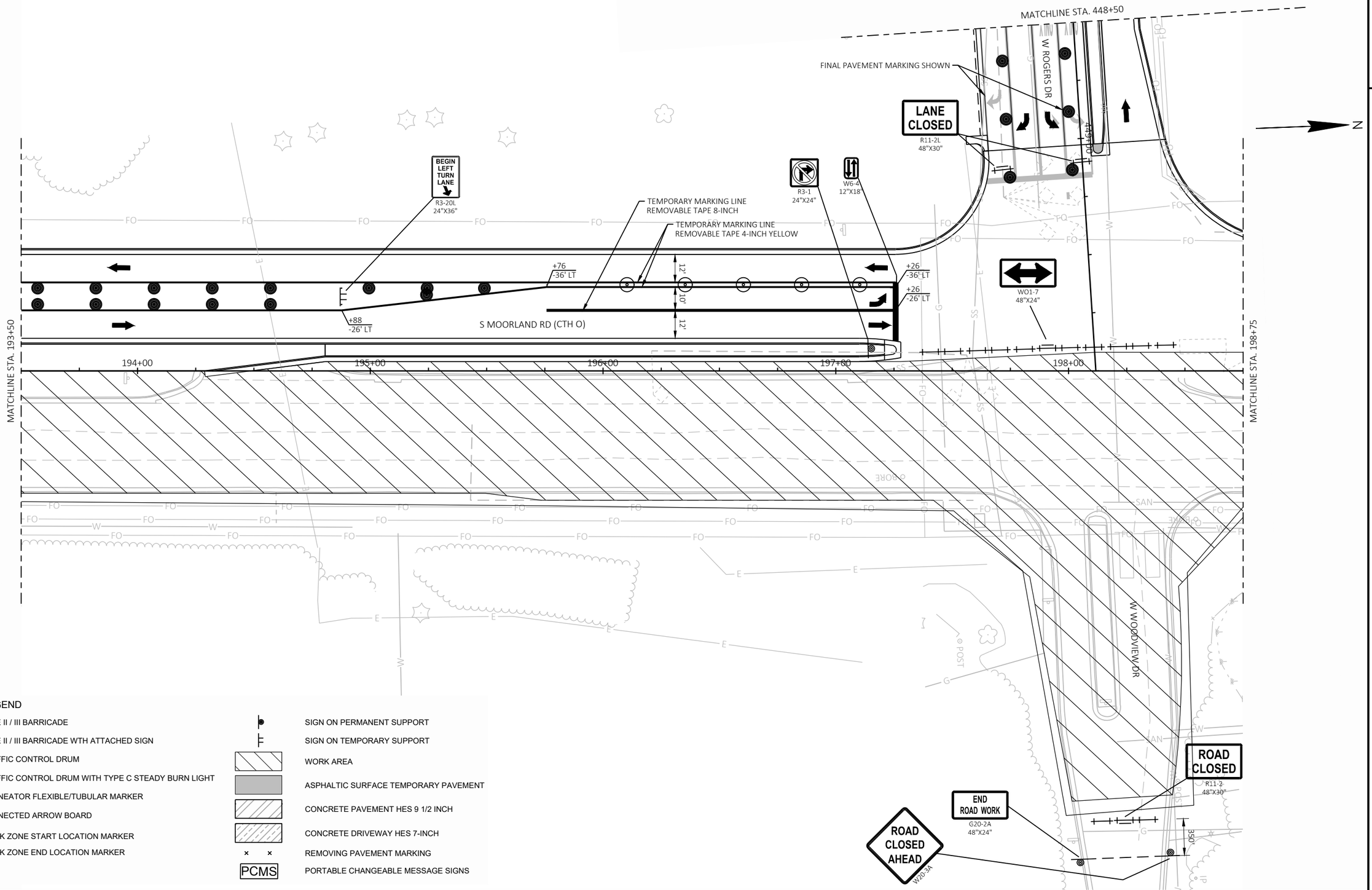
TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 345	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025110-tc
PLOT DATE : 7/23/2026 3:11 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 346	E

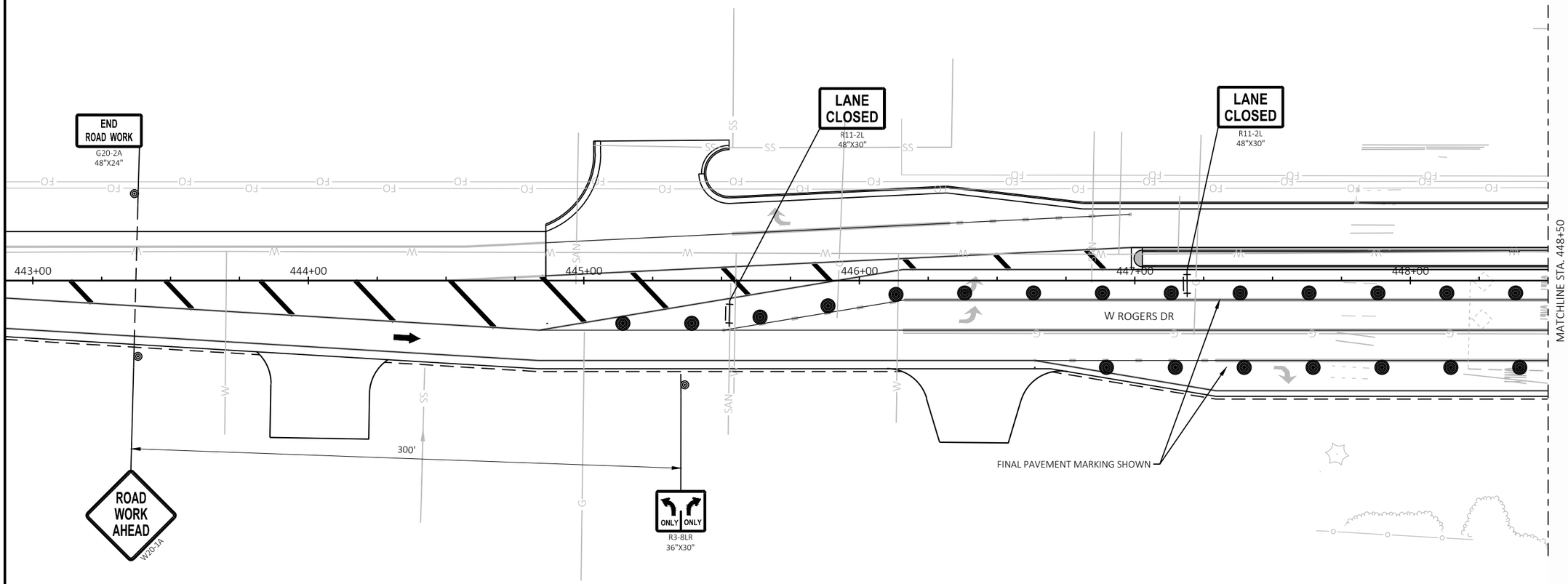
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LAYOUT NAME - 025111-tc
PLOT DATE : 7/23/2026 3:11 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS

N

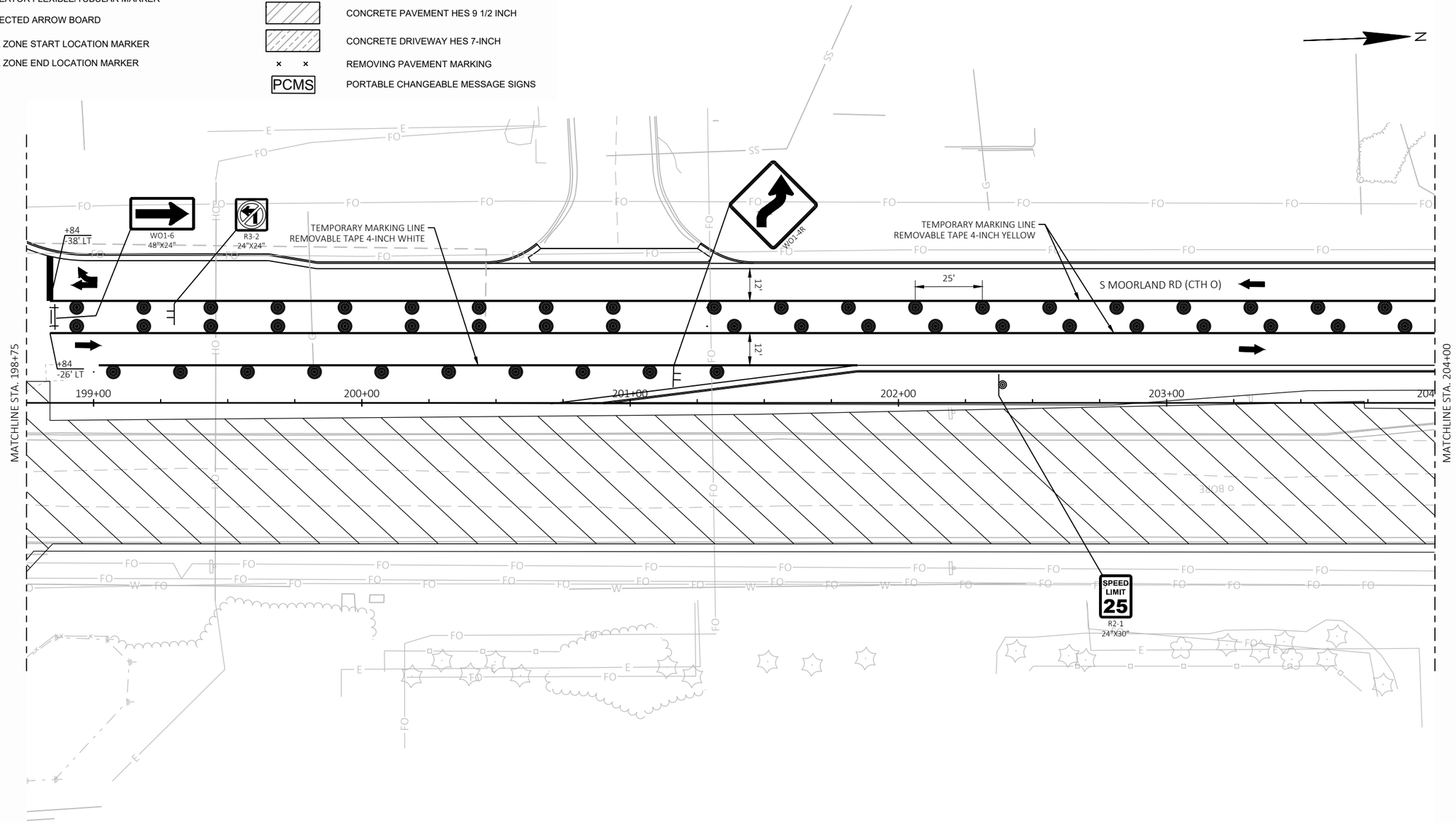


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 347	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025111a-tc
PLOT DATE : 7/23/2026 3:11 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

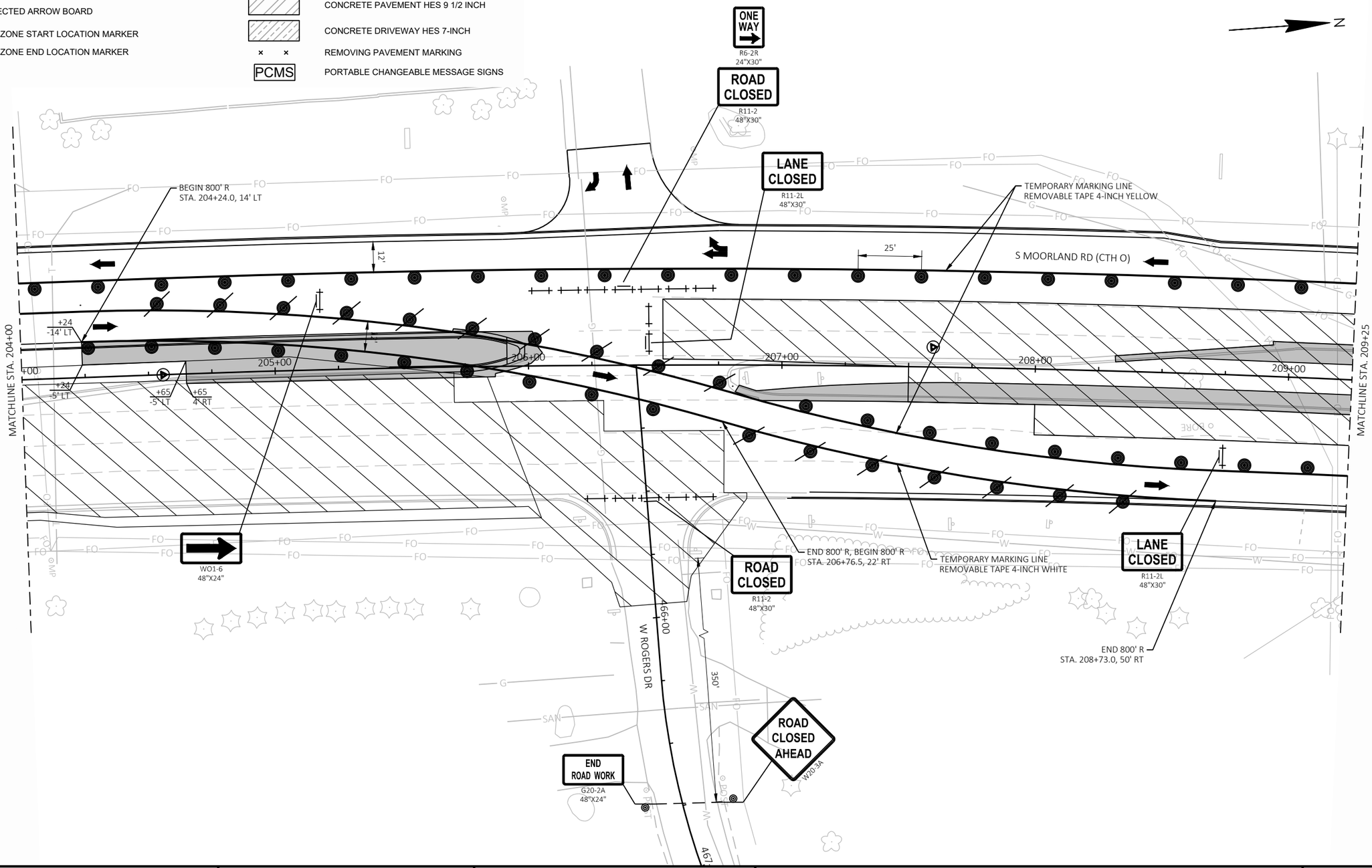


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 348	E

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



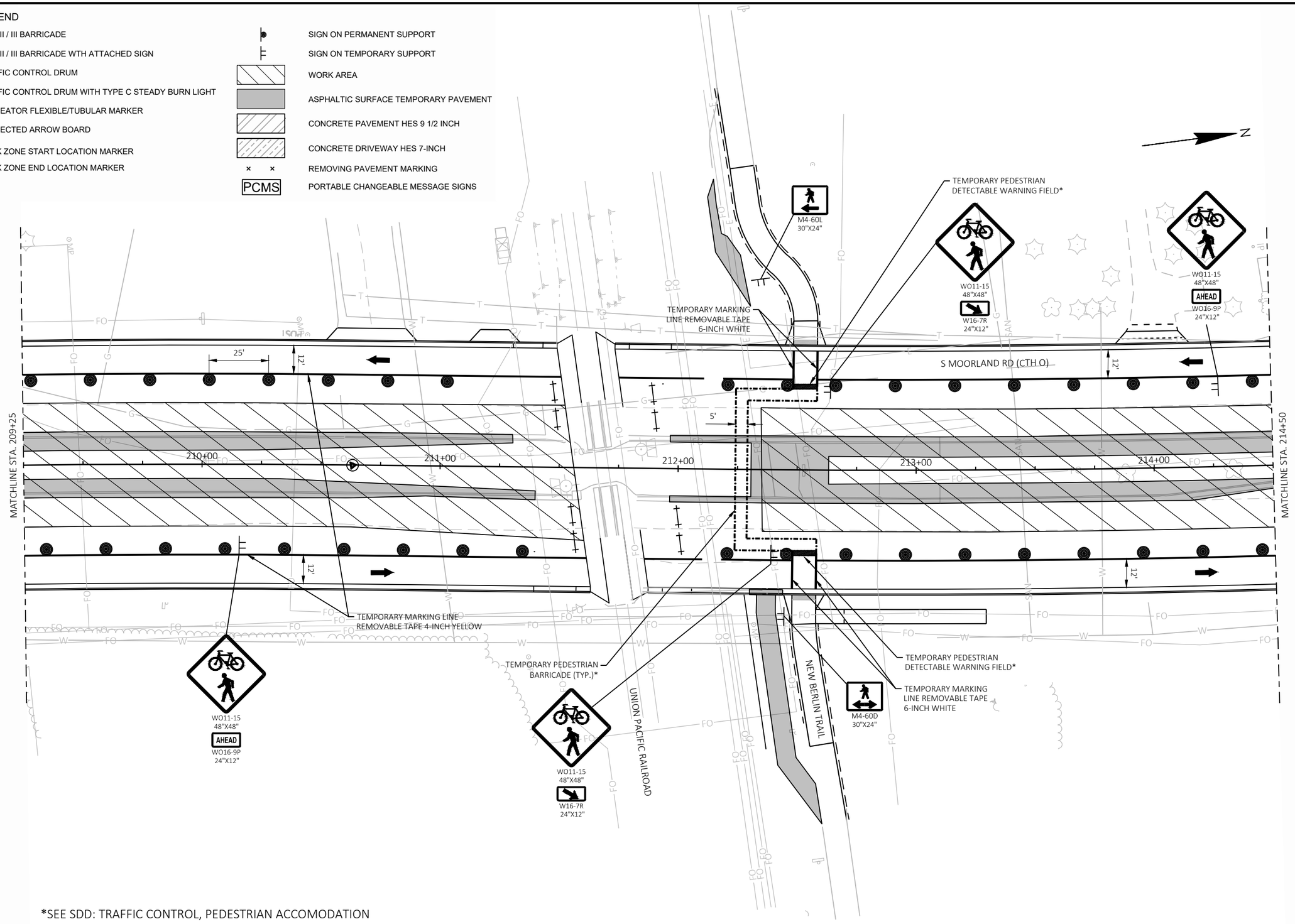
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 349 E

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LAYOUT NAME - 025113-tc
PLOT DATE : 7/23/2026 3:11 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS



*SEE SDD: TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 350	E

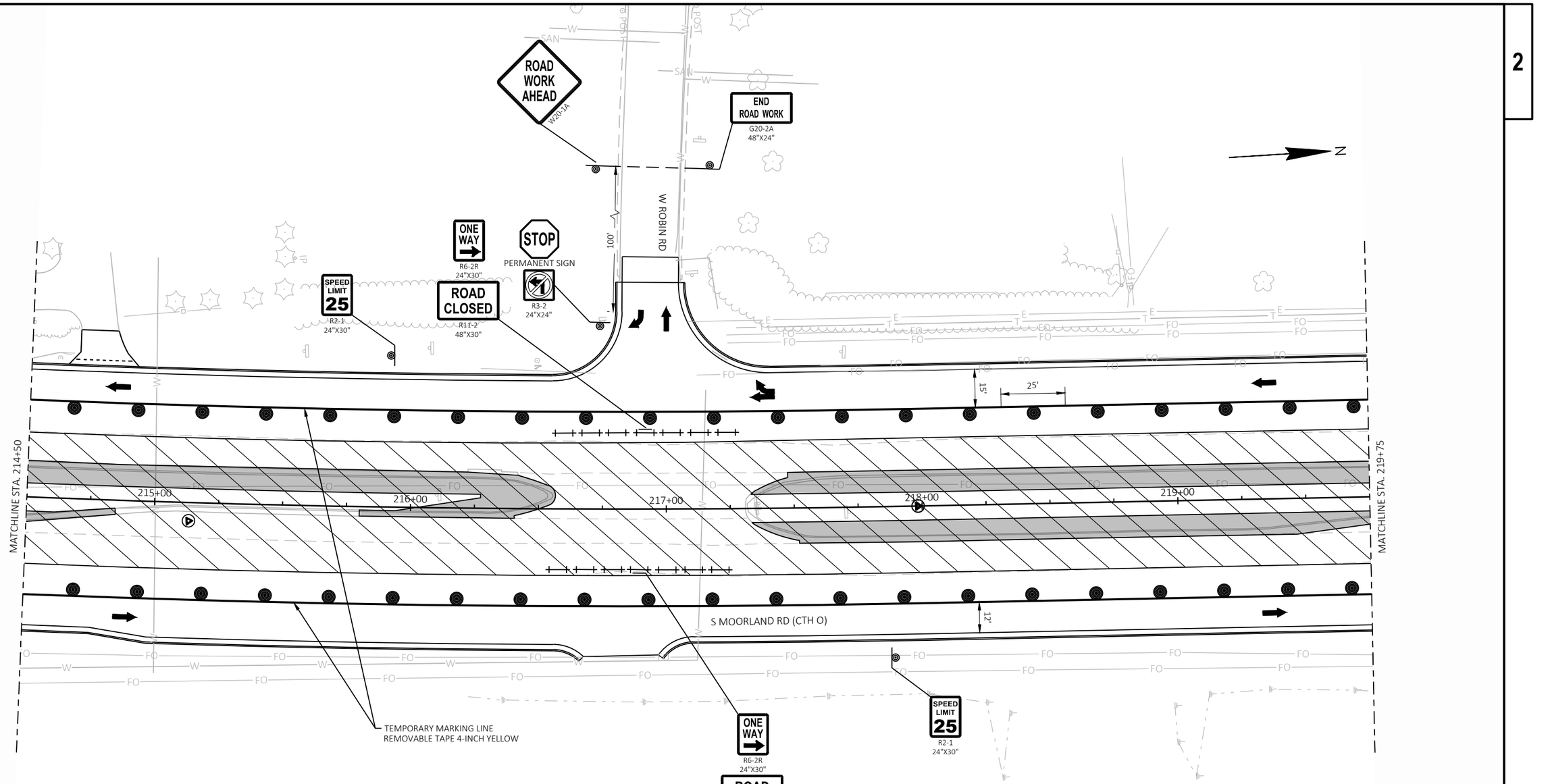
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LAYOUT NAME - 025114-tc

PLOT DATE : 7/23/2026 3:11 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

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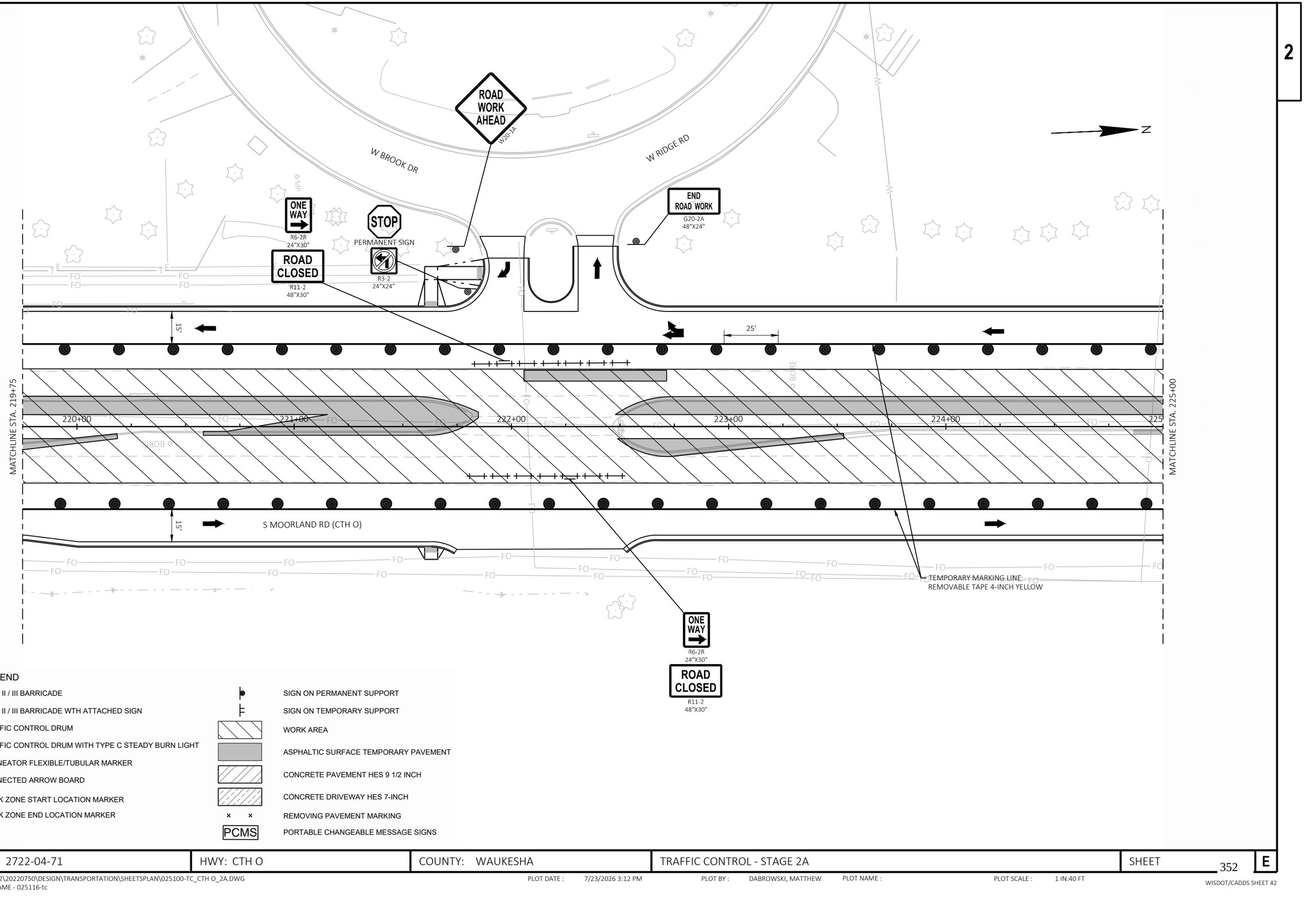
LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 351	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025115-tc
PLOT DATE : 7/23/2026 3:12 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

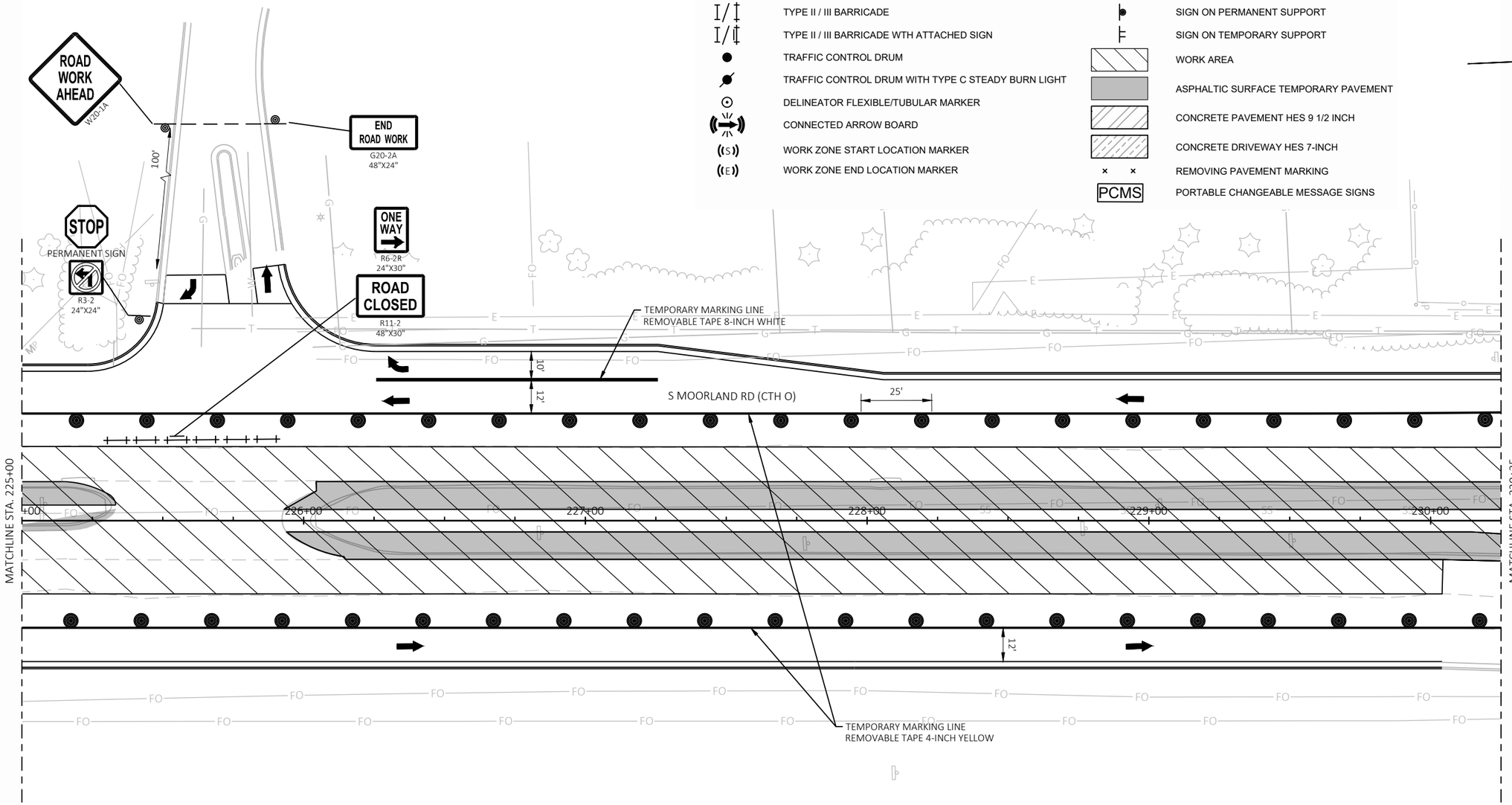
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 352	E

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PORTABLE CHANGEABLE MESSAGE SIGNS

N



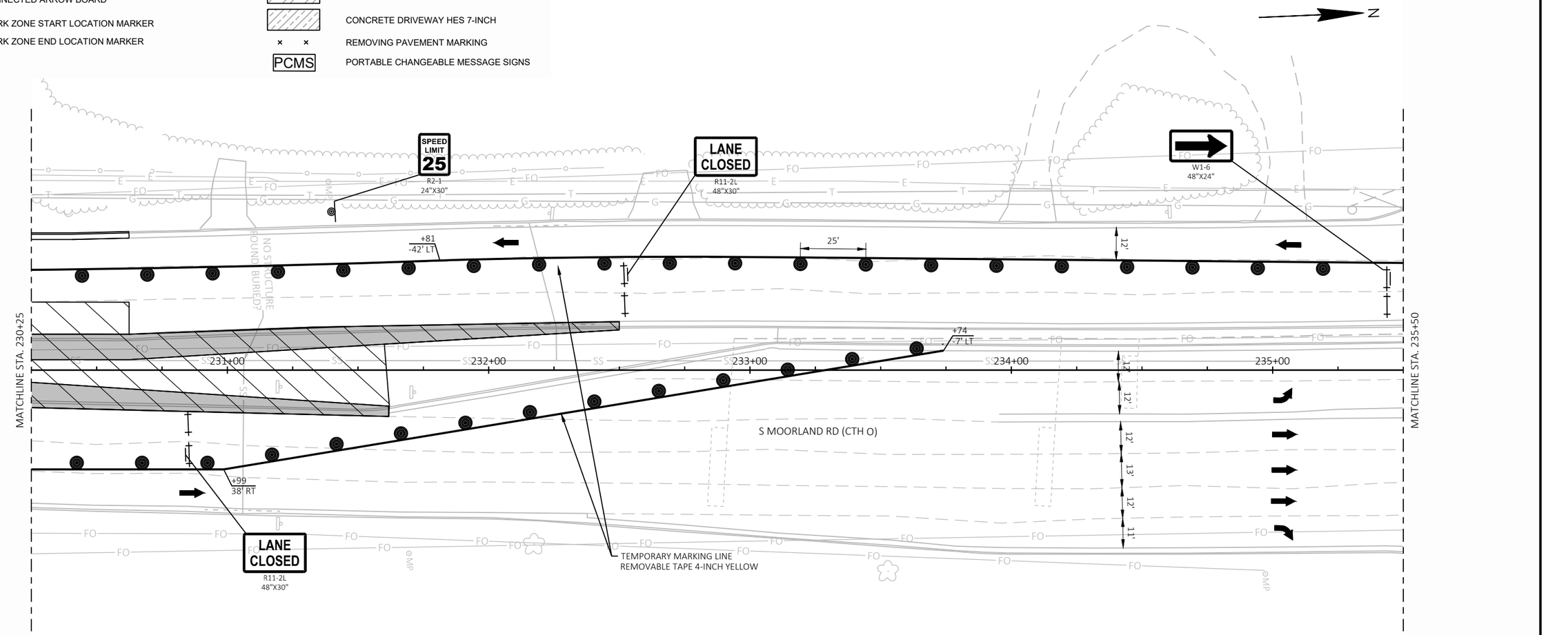
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 353	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025117-tc

PLOT DATE : 7/23/2026 3:12 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 354	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025118-tc

PLOT DATE : 7/23/2026 3:12 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS

N

ROAD WORK AHEAD
W20-1A
350'

END ROAD WORK
G20-2A
48"X24"

W GREENFIELD AVE (STH 59)

TEMPORARY MARKING LINE
REMOVABLE TAPE 8-INCH

+52
-41' LT

MATCHLINE STA. 235+50

236+00 237+00 238+00 239+00 240

MATCHLINE STA. 240+00

LANE CLOSED
R11-2L
48"X30"

S MOORLAND RD (CTH O)

EXTEND DRUMS TO CLOSE OFF OUTSIDE LEFT TURN LANE

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A
350'

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 355	E

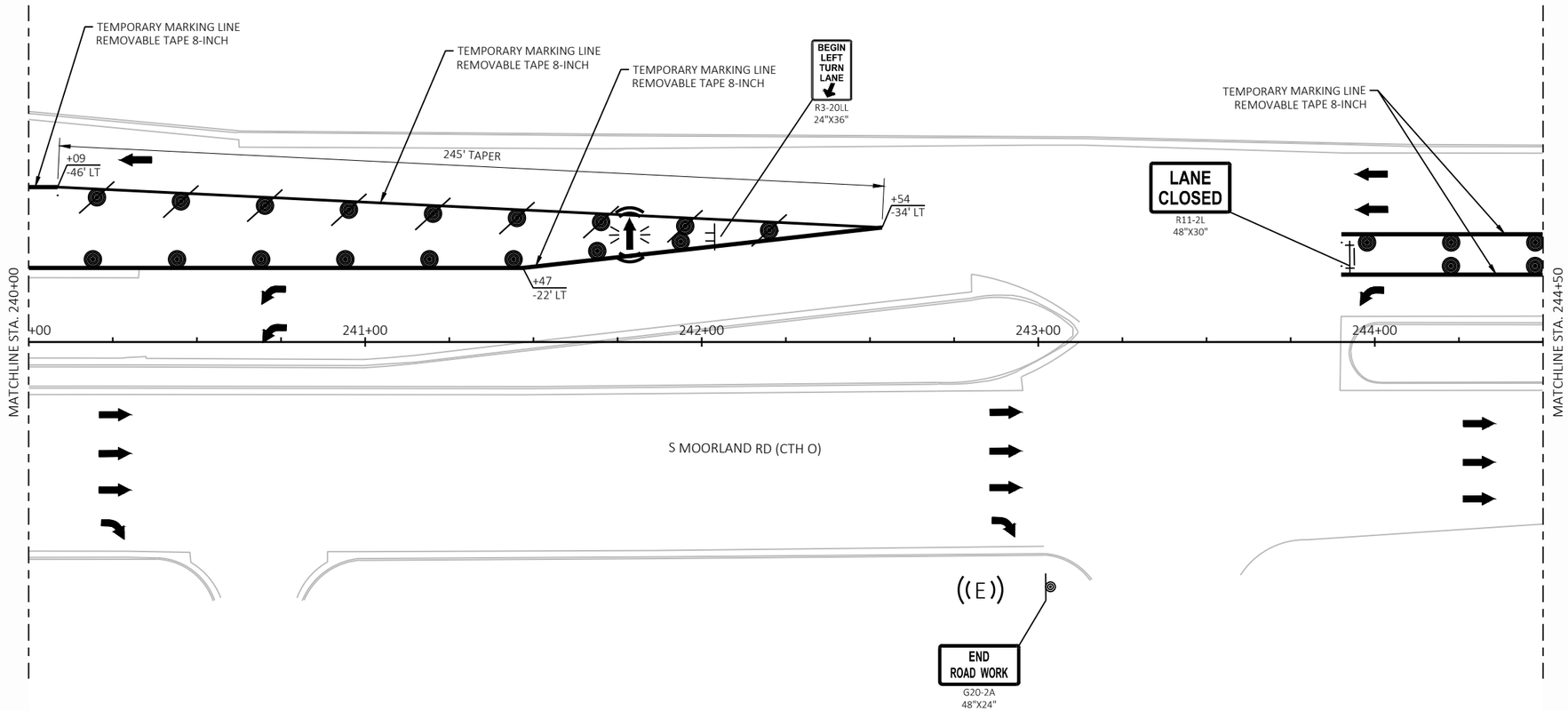
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LAYOUT NAME - 025119-tc
PLOT DATE : 7/23/2026 3:12 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N



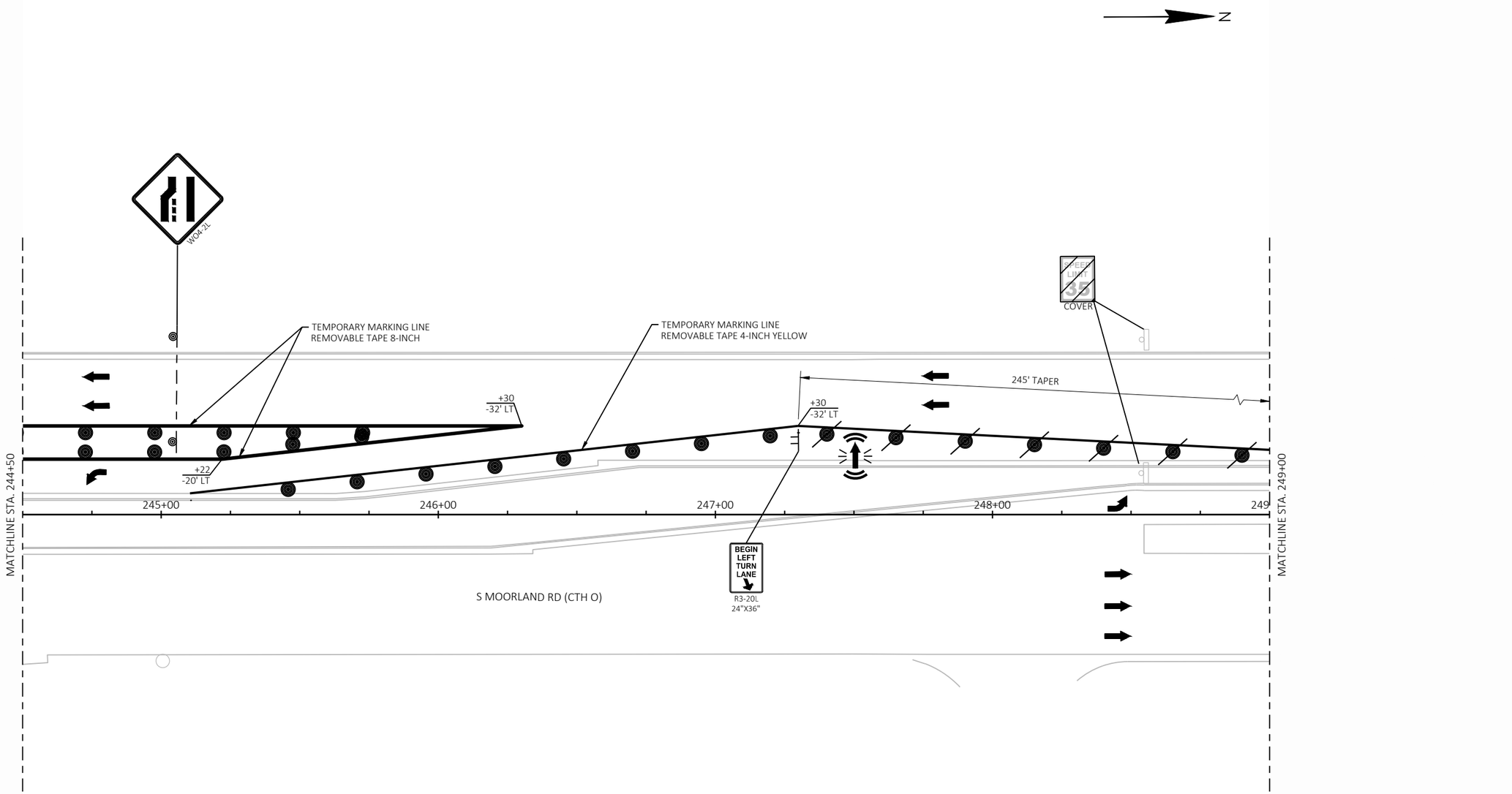
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 356 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025120-tc

PLOT DATE : 7/23/2026 3:12 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 357	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025121-tc
PLOT DATE : 7/23/2026 3:12 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

PINEHURST DR



245' TAPER

MATCHLINE STA. 249+00

250+00 251+00 252+00 253+00 254+00

S MOORLAND RD (CTH O)

LEGEND

	TYPE II / III BARRICADE		SIGN ON PERMANENT SUPPORT
	TYPE II / III BARRICADE WTH ATTACHED SIGN		SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2A	SHEET 358	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2A.DWG
LAYOUT NAME - 025122-tc

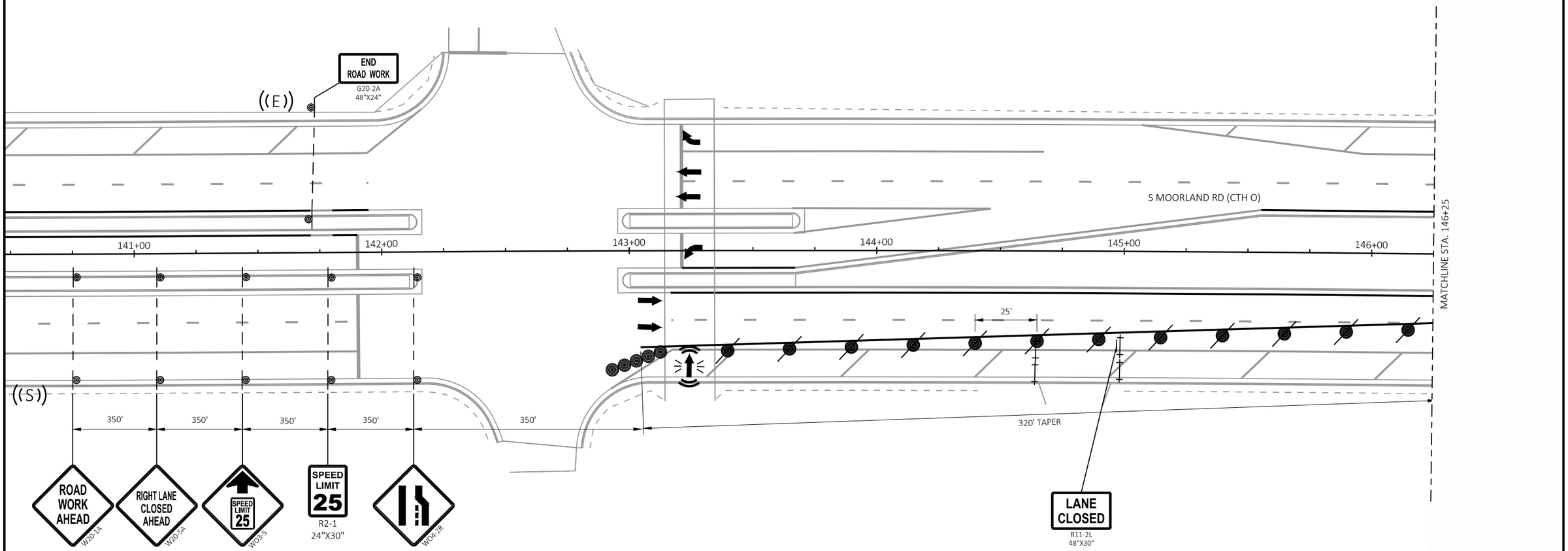
PLOT DATE : 7/23/2026 3:12 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS PORTABLE CHANGEABLE MESSAGE SIGNS

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 359	E

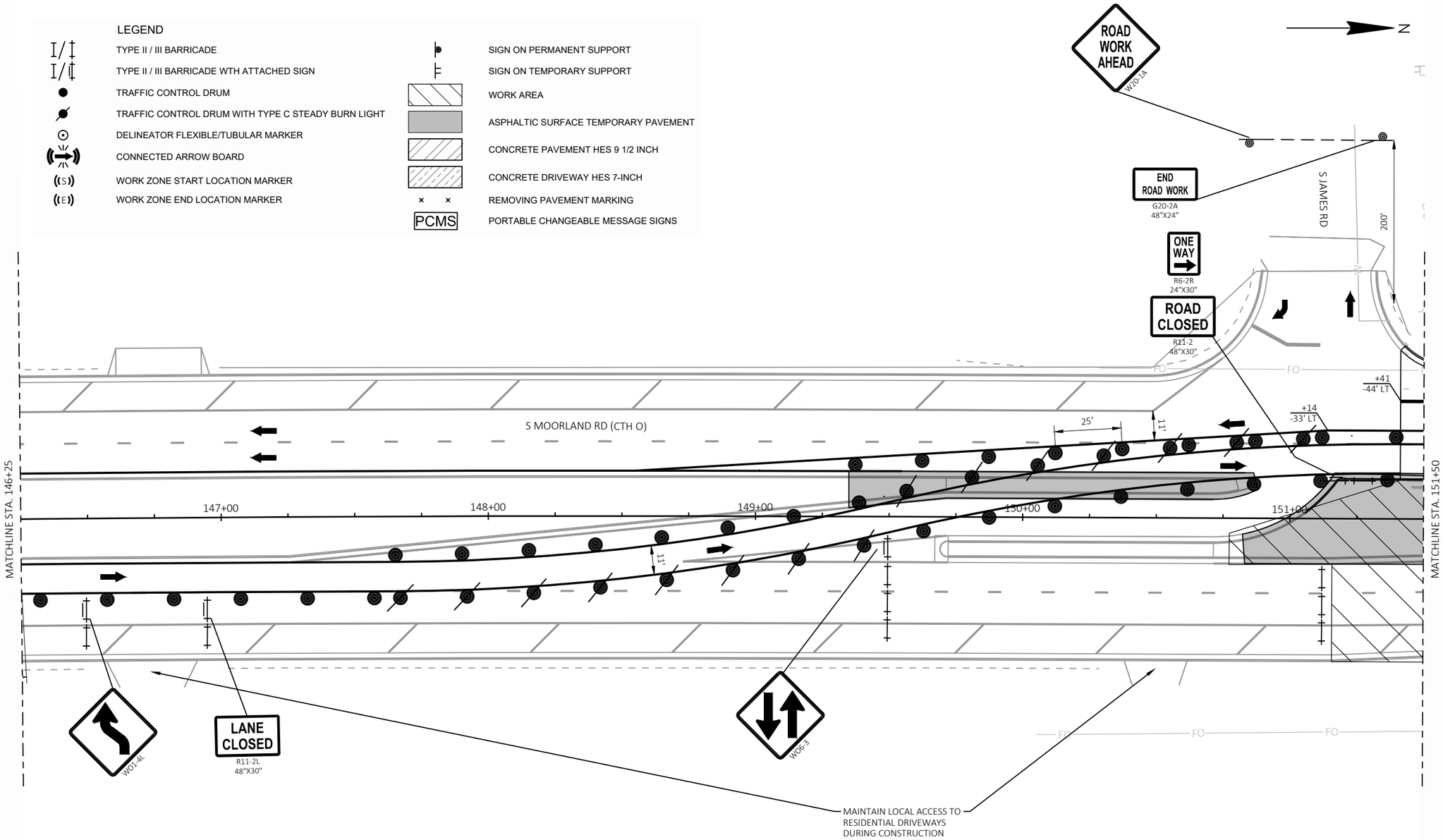
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LAYOUT NAME - 025101-tc

PLOT DATE : 7/23/2026 3:13 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

I/‡	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
((→))	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS



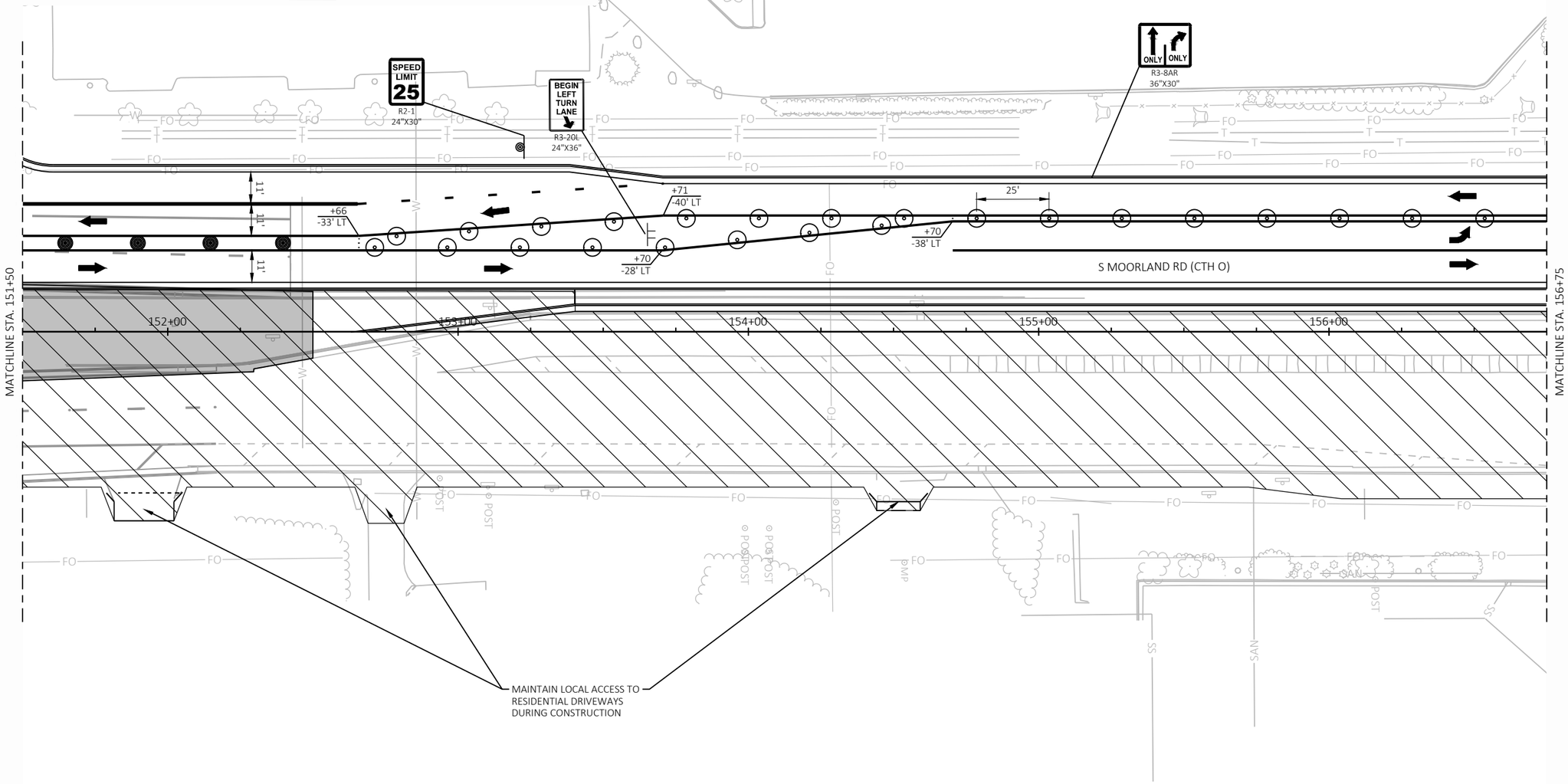
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 360	E

2

LEGEND

I/‡	TYPE II / III BARRICADE	⊢●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

N



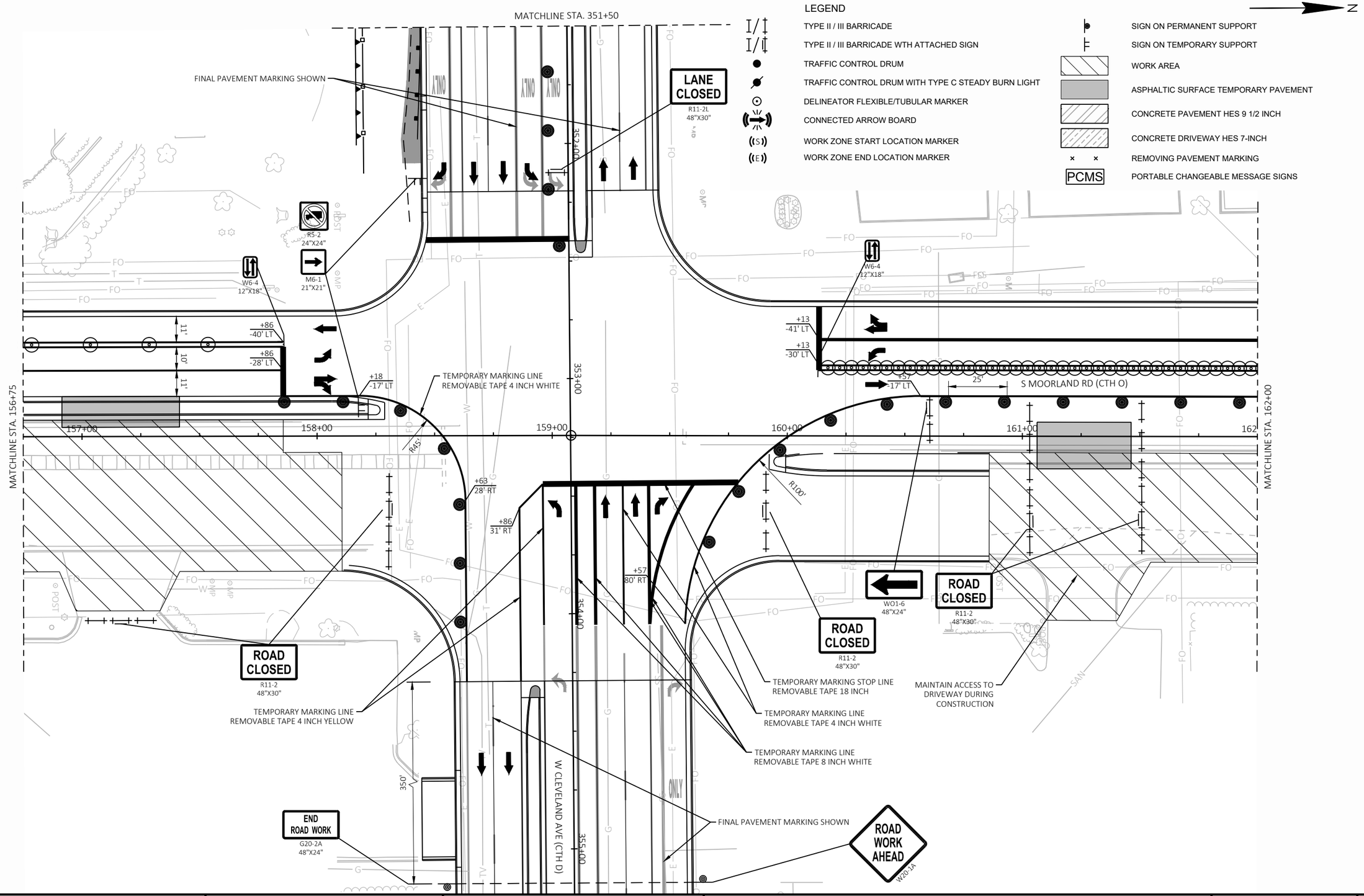
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 361	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025103-tc

PLOT DATE : 7/23/2026 3:13 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 362	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025104-tc
PLOT DATE : 7/23/2026 3:13 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

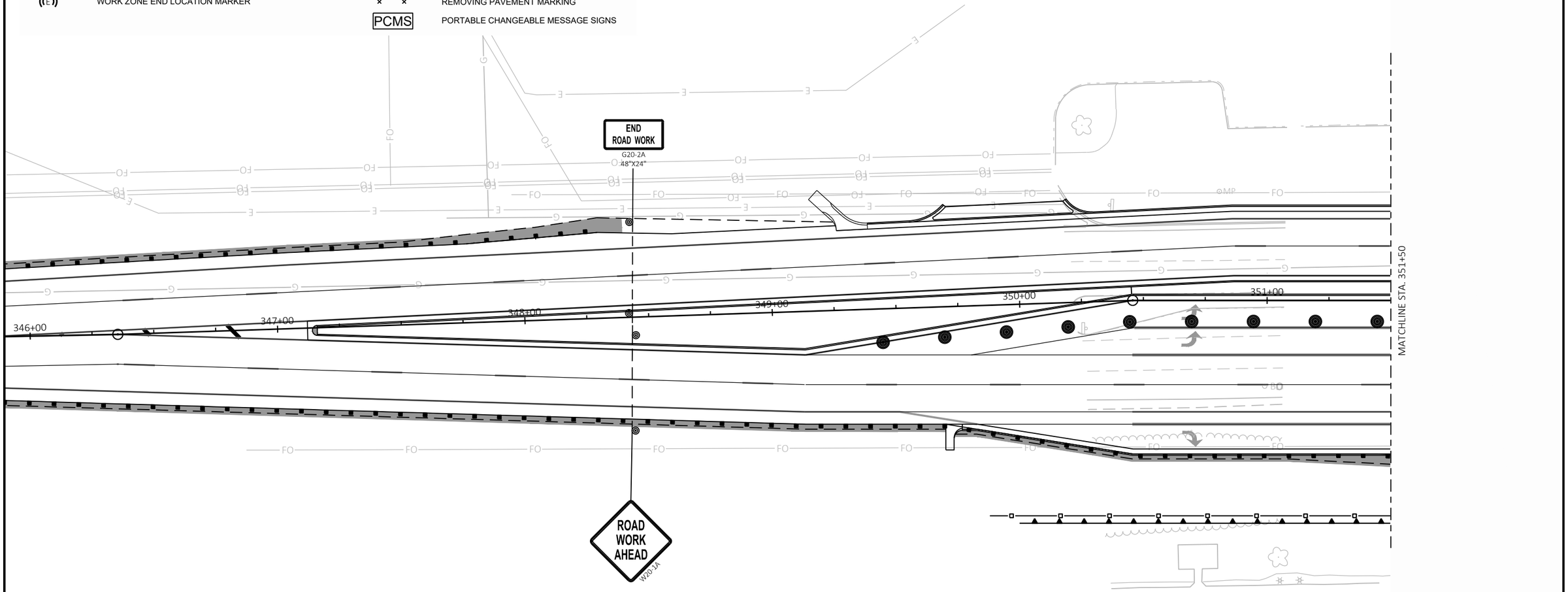
2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 363 E

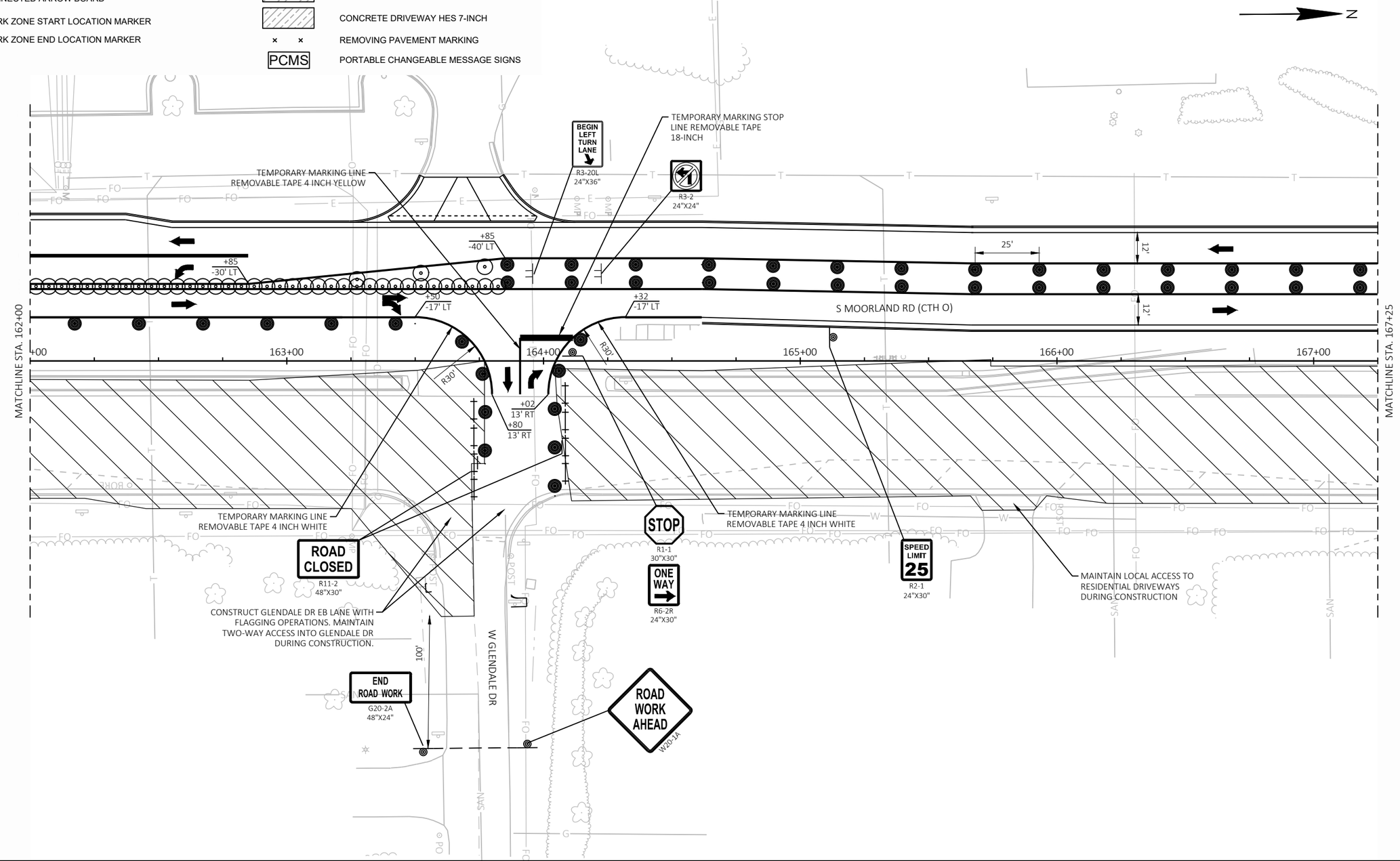
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LAYOUT NAME - 025104a-tc

PLOT DATE : 7/23/2026 3:13 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 364	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025105-tc

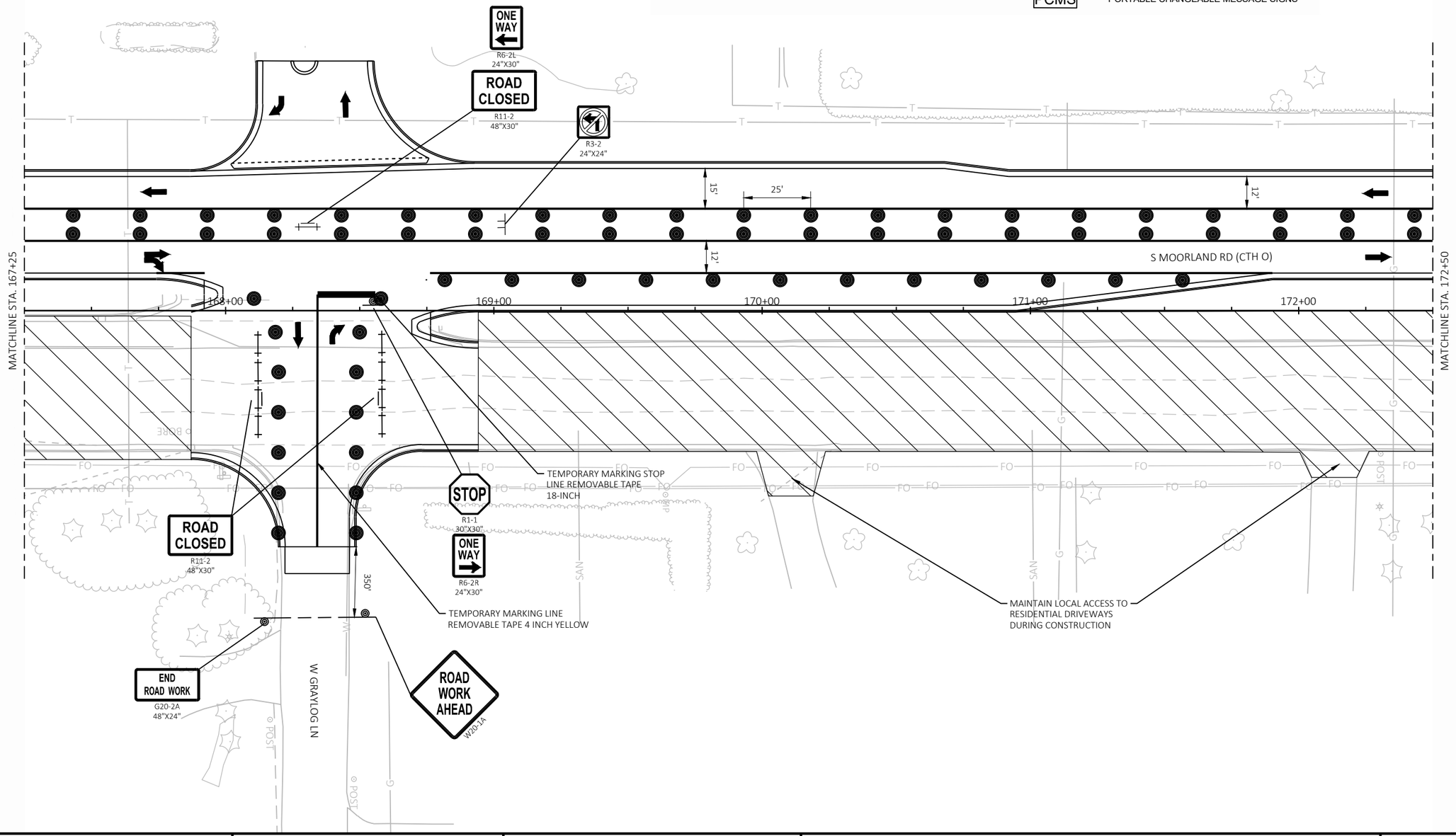
PLOT DATE : 7/23/2026 3:13 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PORTABLE CHANGEABLE MESSAGE SIGNS

N



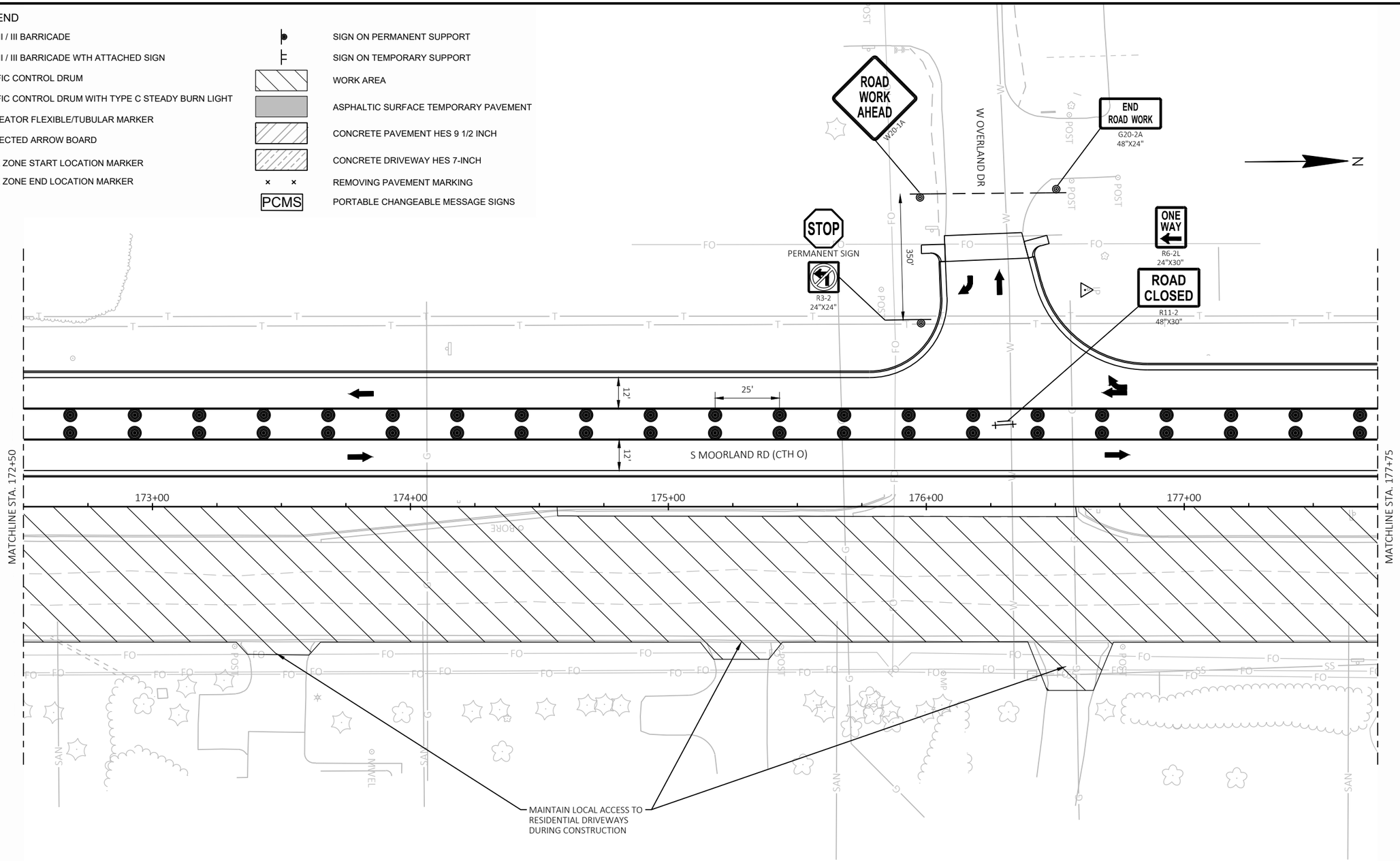
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 365	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025106-tc
PLOT DATE : 7/23/2026 3:13 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

I/‡	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	┼	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 366	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025107-tc
PLOT DATE : 7/23/2026 3:13 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

I/I	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	F	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

N

SPEED LIMIT 25
R2-1
24"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

12'
25'
12'

+94
-26' LT

+82
-36' LT

S MOORLAND RD (CTH O)

MATCHLINE STA. 177+75

178+00 179+00 180+00 181+00 182+00 183

MATCHLINE STA. 183+00

MAINTAIN LOCAL ACCESS TO
RESIDENTIAL DRIVEWAYS
DURING CONSTRUCTION

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

350'

W SCHNEIDER LN

END ROAD WORK
G20-2A
48"X24"

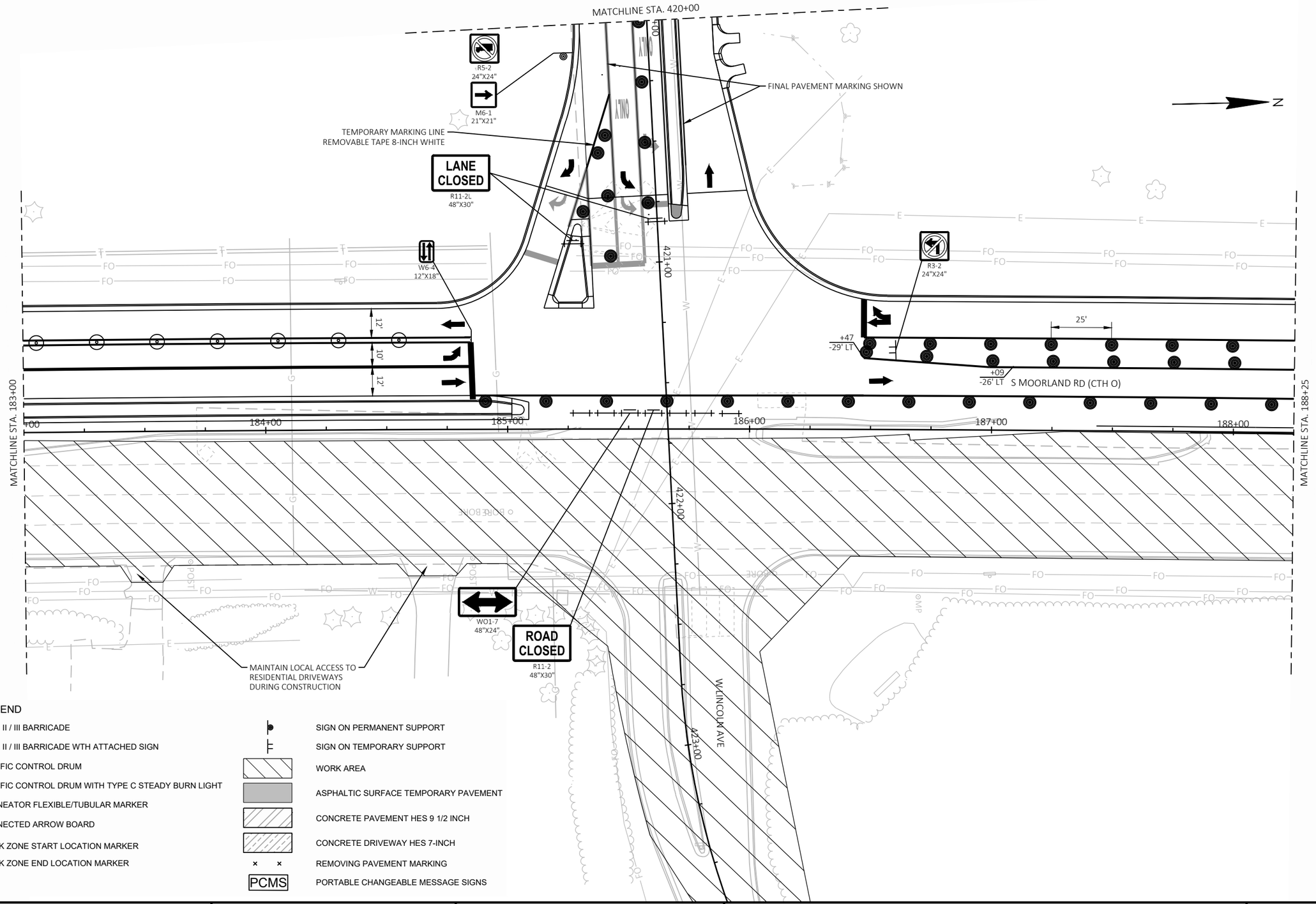
ROAD CLOSED AHEAD
W20-3A

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 367	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025108-tc

PLOT DATE : 7/23/2026 3:13 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 368 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025109-tc
PLOT DATE : 7/23/2026 3:14 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

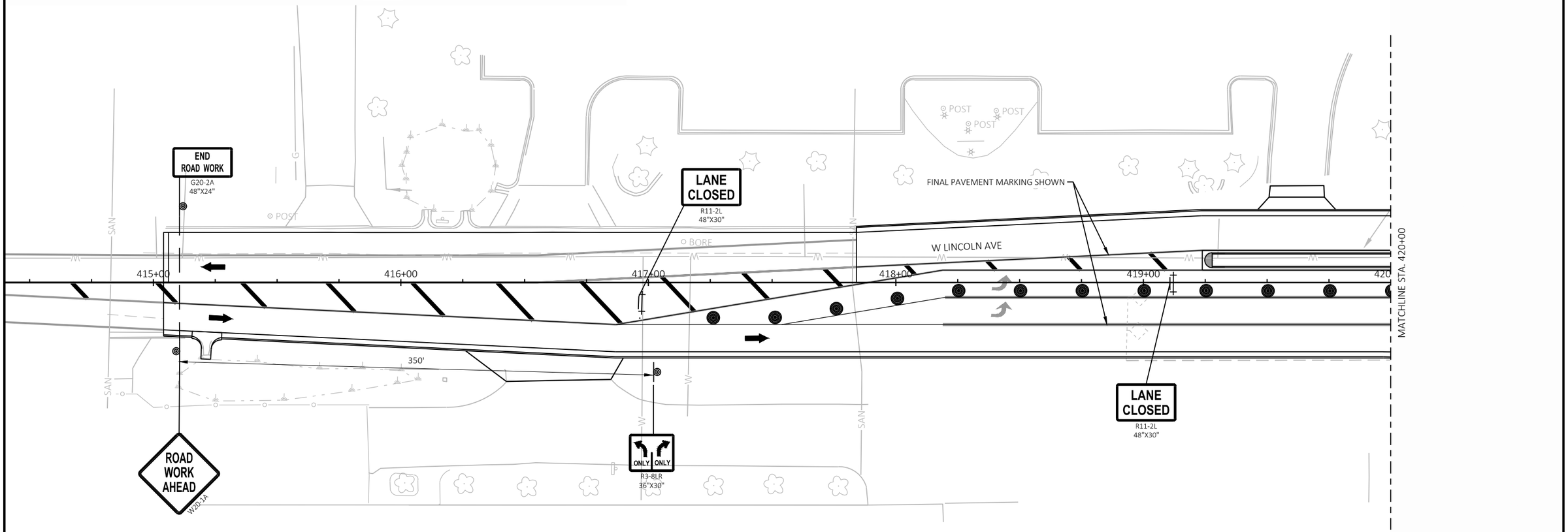
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LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 369	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025109a-tc

PLOT DATE : 7/23/2026 3:14 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

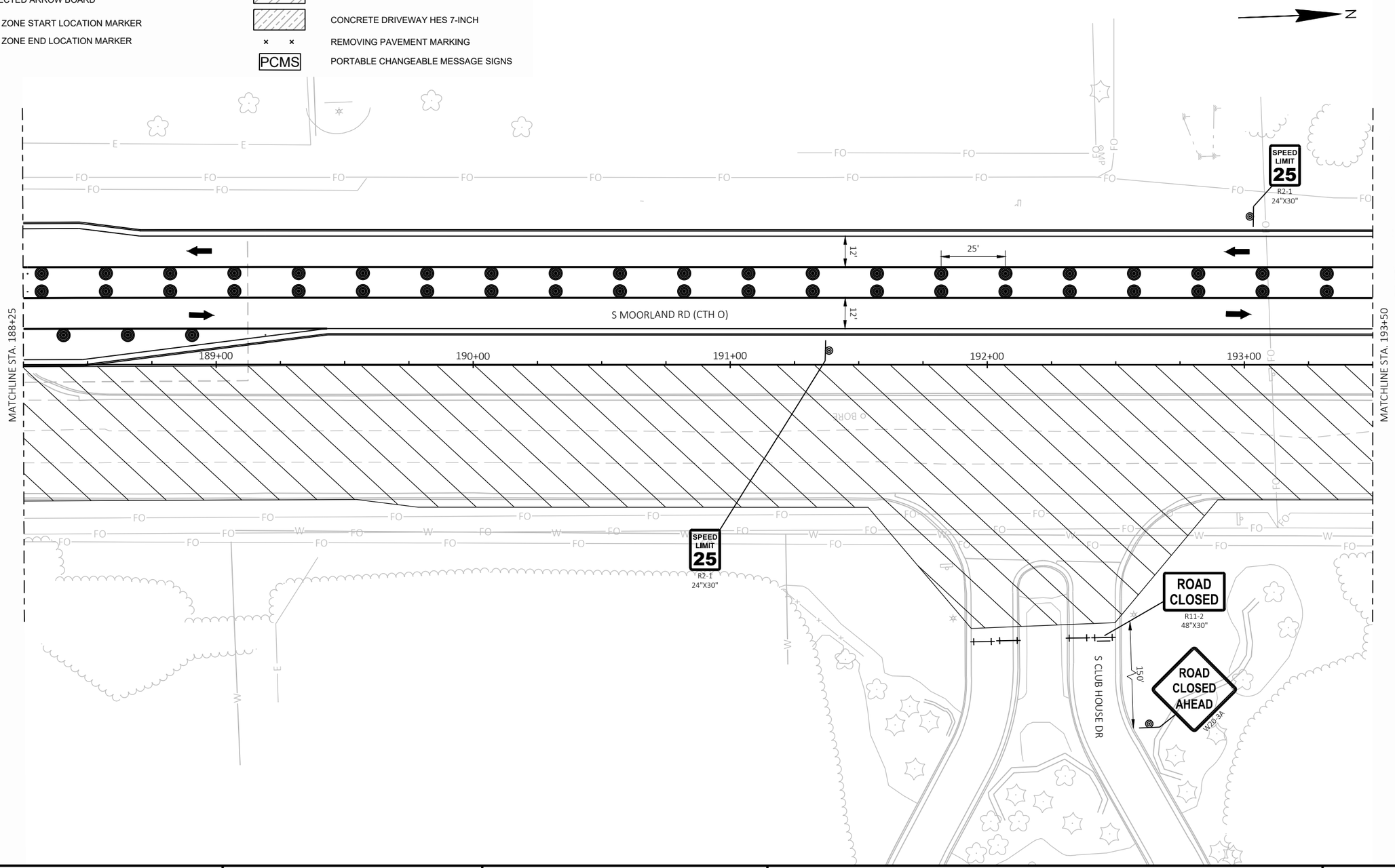
WISDOT/CADDS SHEET 42

2

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 370	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025110-tc

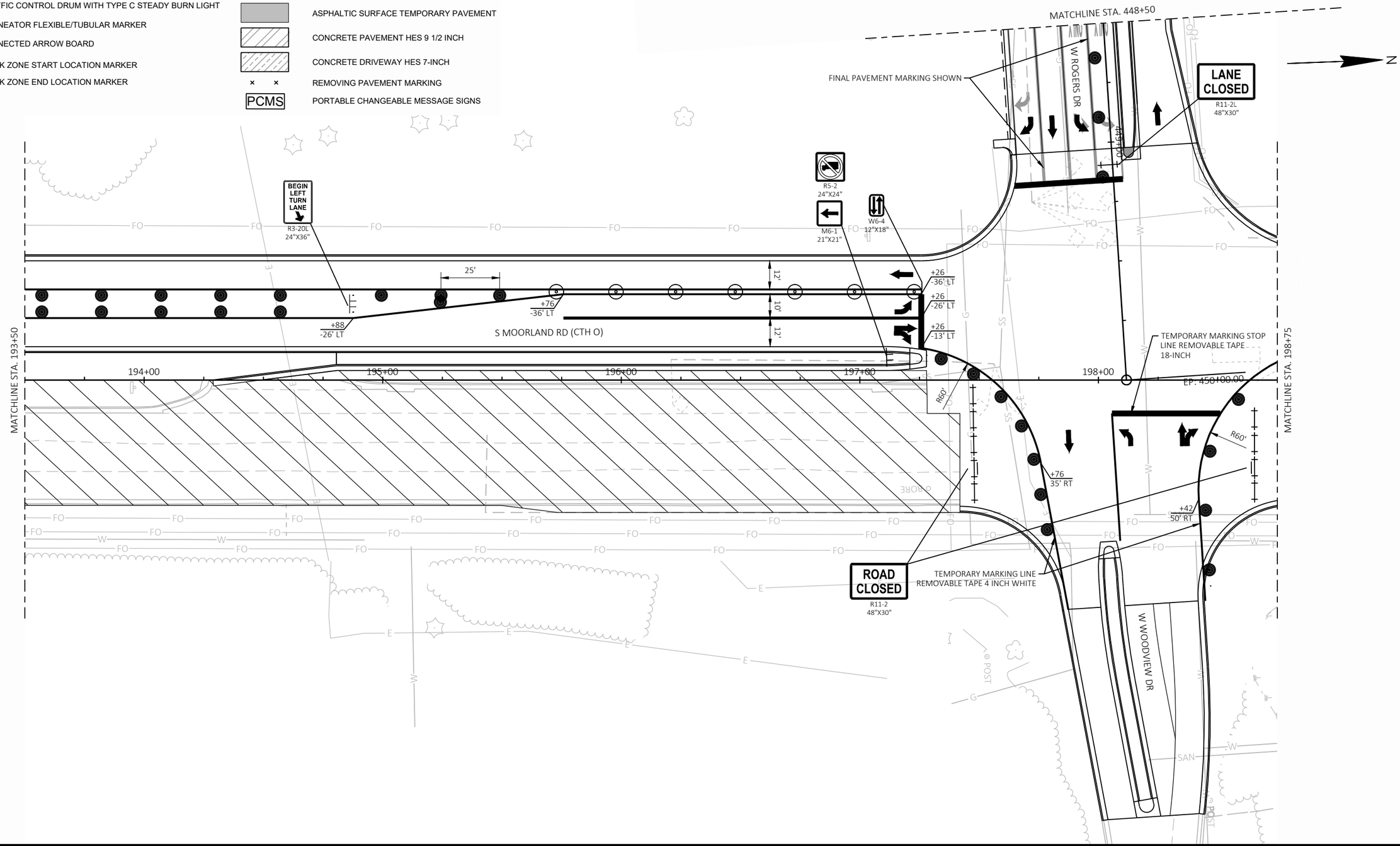
PLOT DATE : 7/23/2026 3:14 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 371	E

2

LEGEND

I/‡	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	‡	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

N

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

443+00 444+00 445+00 446+00 447+00 448+00

W ROGERS DR

MATCHLINE STA. 448+50

300'

ROAD WORK AHEAD
W20-1A

ONLY ONLY
R3-8LR
36"X30"

FINAL PAVEMENT MARKING SHOWN

2

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 372	E

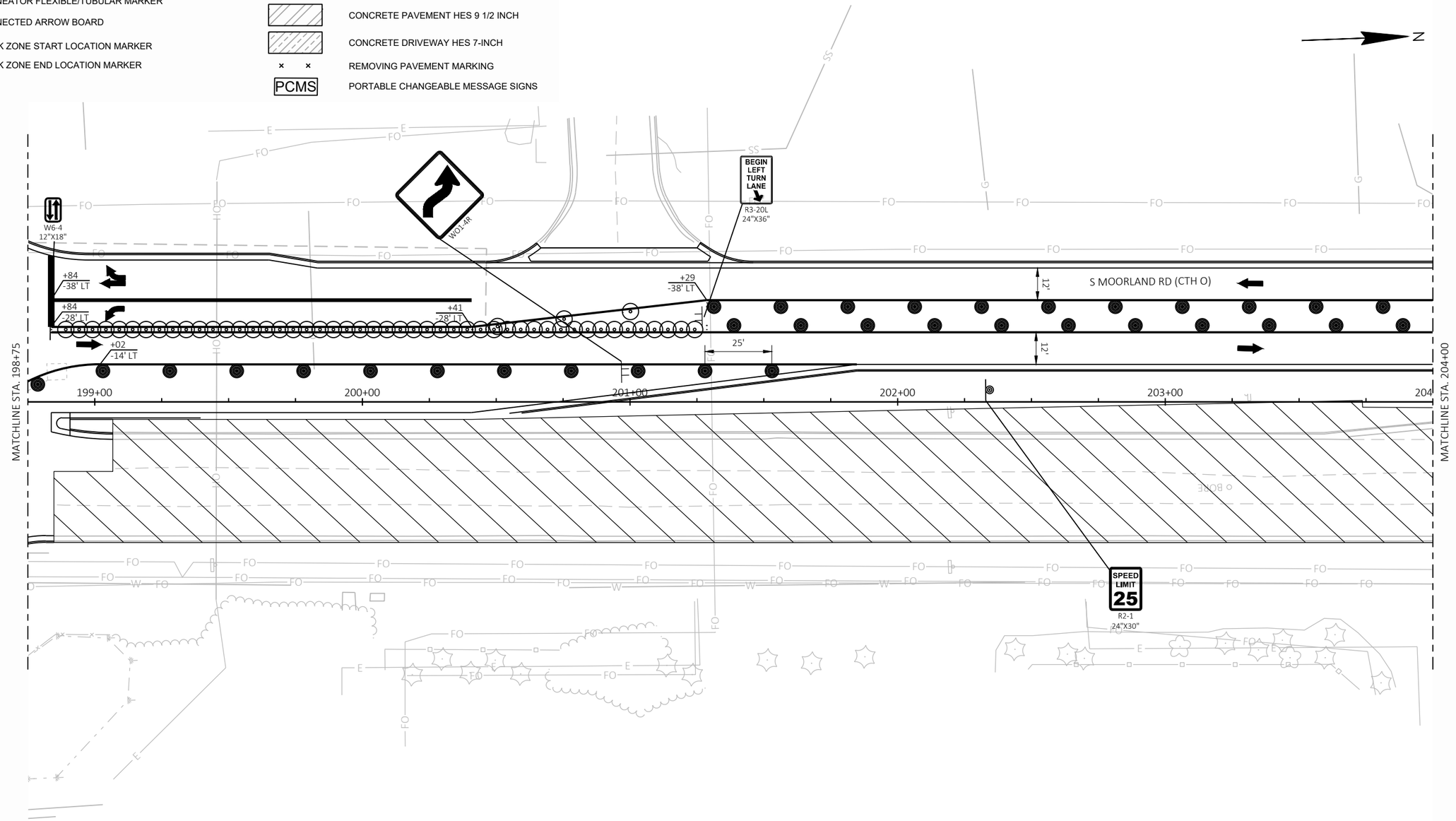
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LAYOUT NAME - 025111a-tc

PLOT DATE : 7/23/2026 3:14 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

LEGEND

I/‡	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 373	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025112-tc

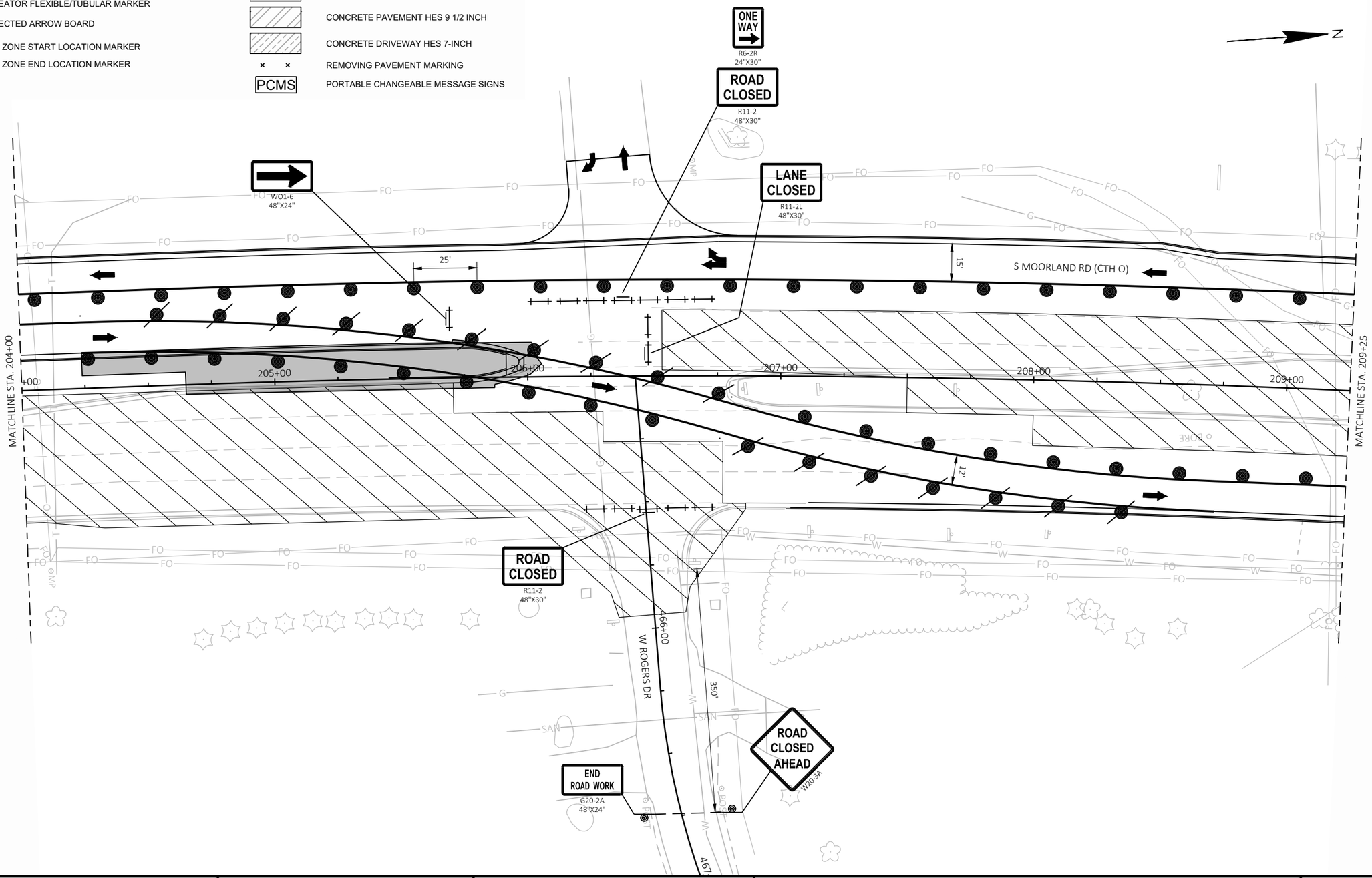
PLOT DATE : 7/23/2026 3:14 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



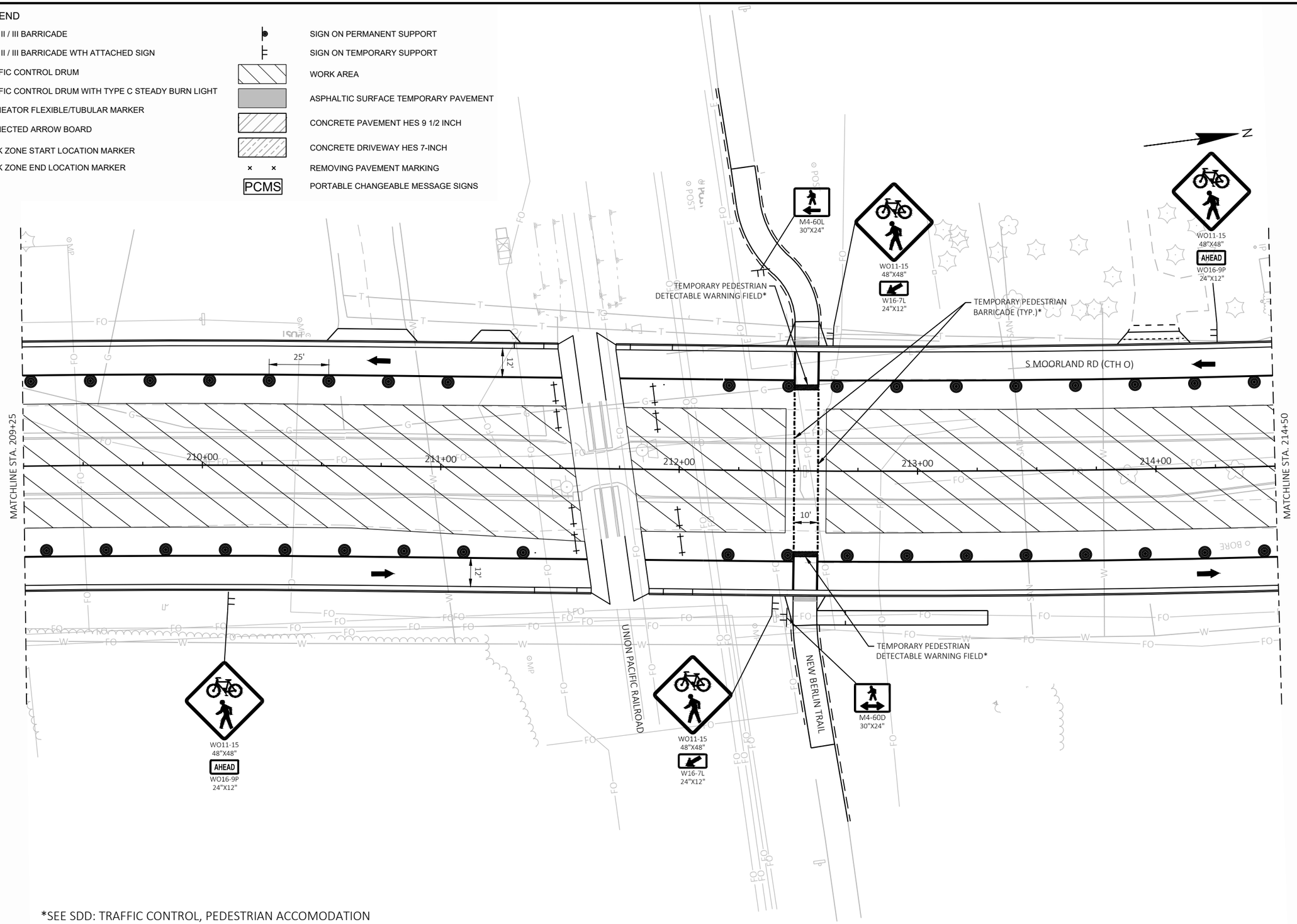
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 374	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025113-tc
PLOT DATE : 7/23/2026 3:14 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

I/‡	TYPE II / III BARRICADE	●	SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	F	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

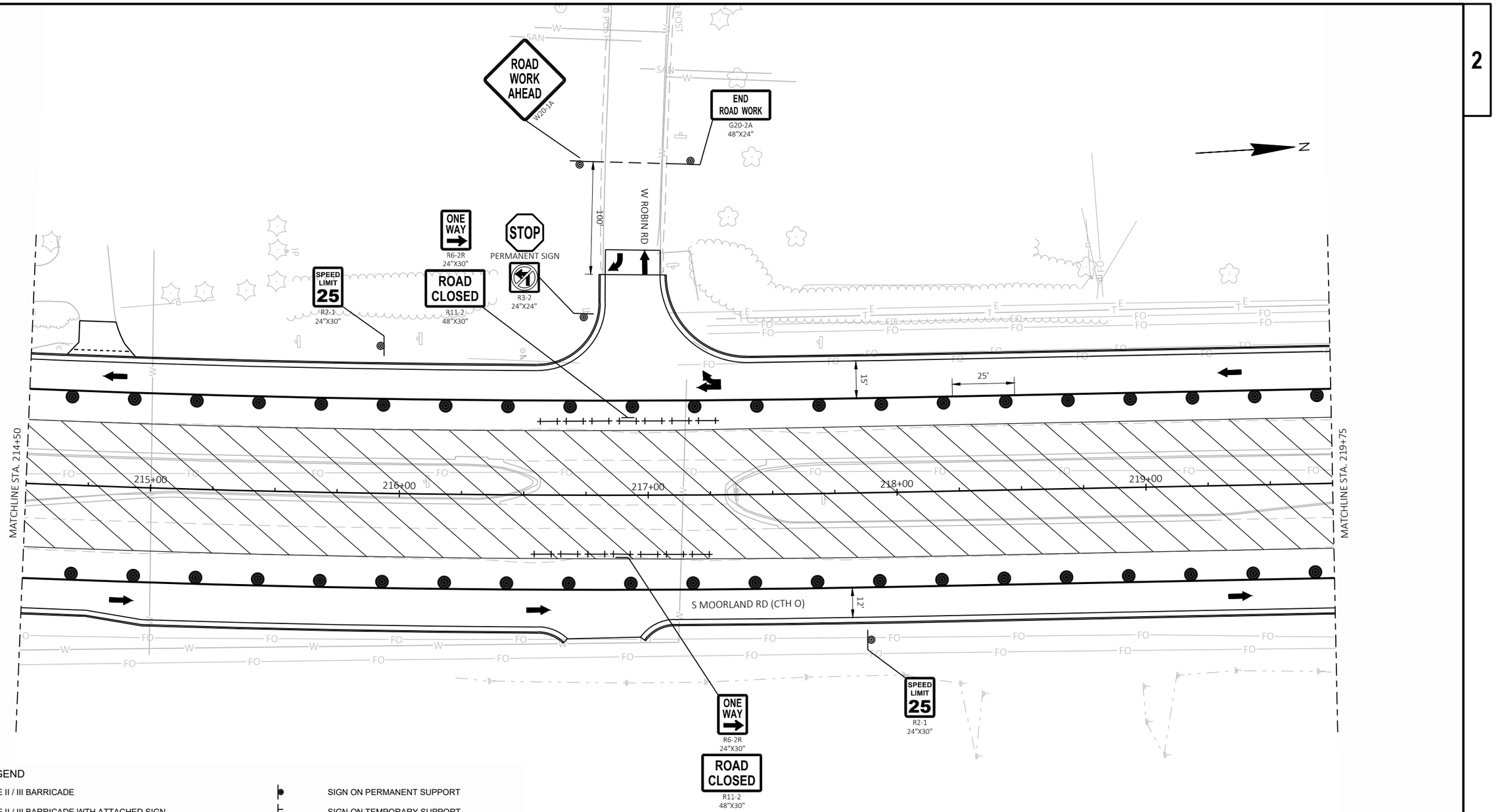


*SEE SDD: TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 375	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025114-tc
PLOT DATE : 7/23/2026 3:14 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



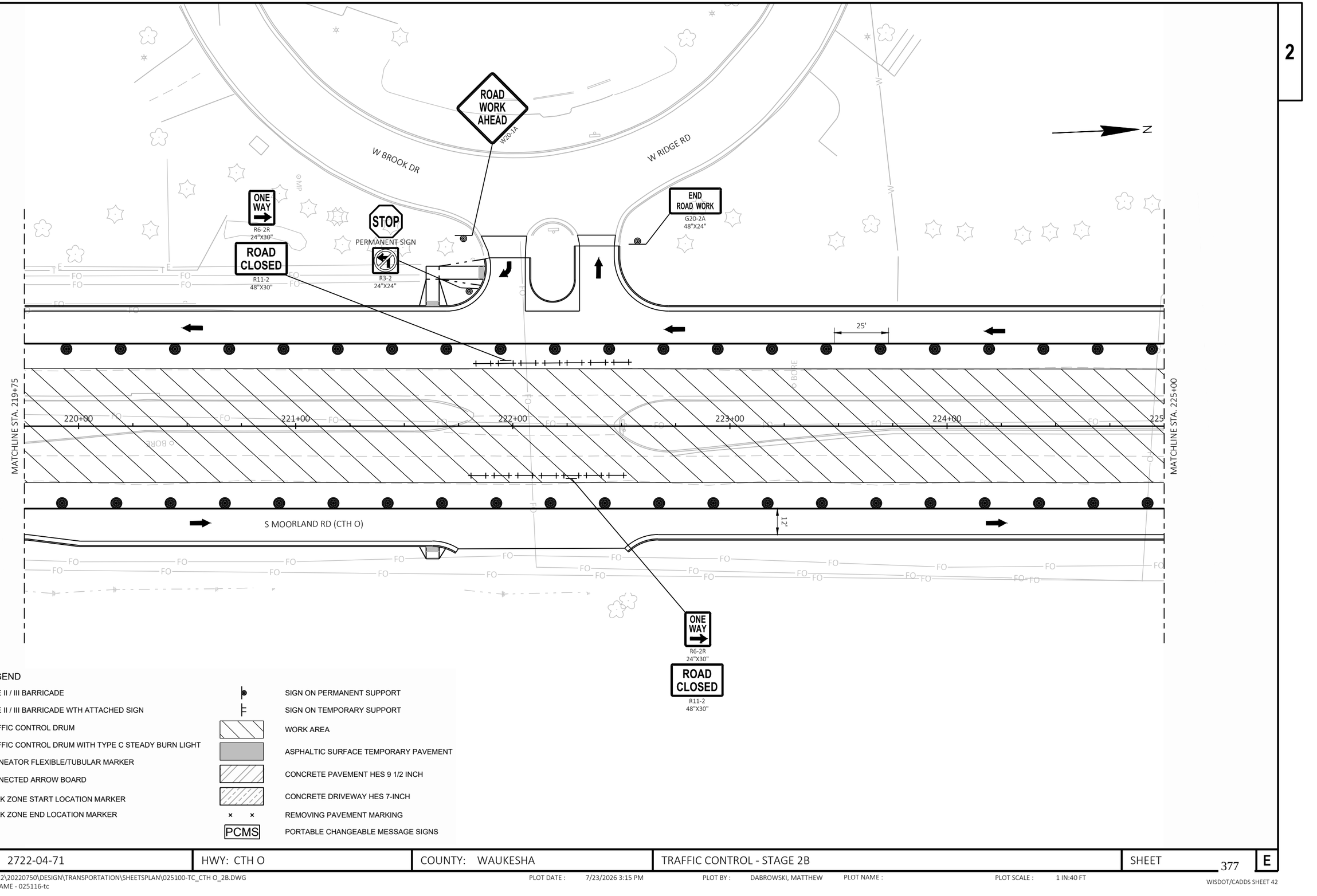
LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 376	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025115-tc
PLOT DATE : 7/23/2026 3:14 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

I/‡	TYPE II / III BARRICADE		SIGN ON PERMANENT SUPPORT
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN		SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 377	E

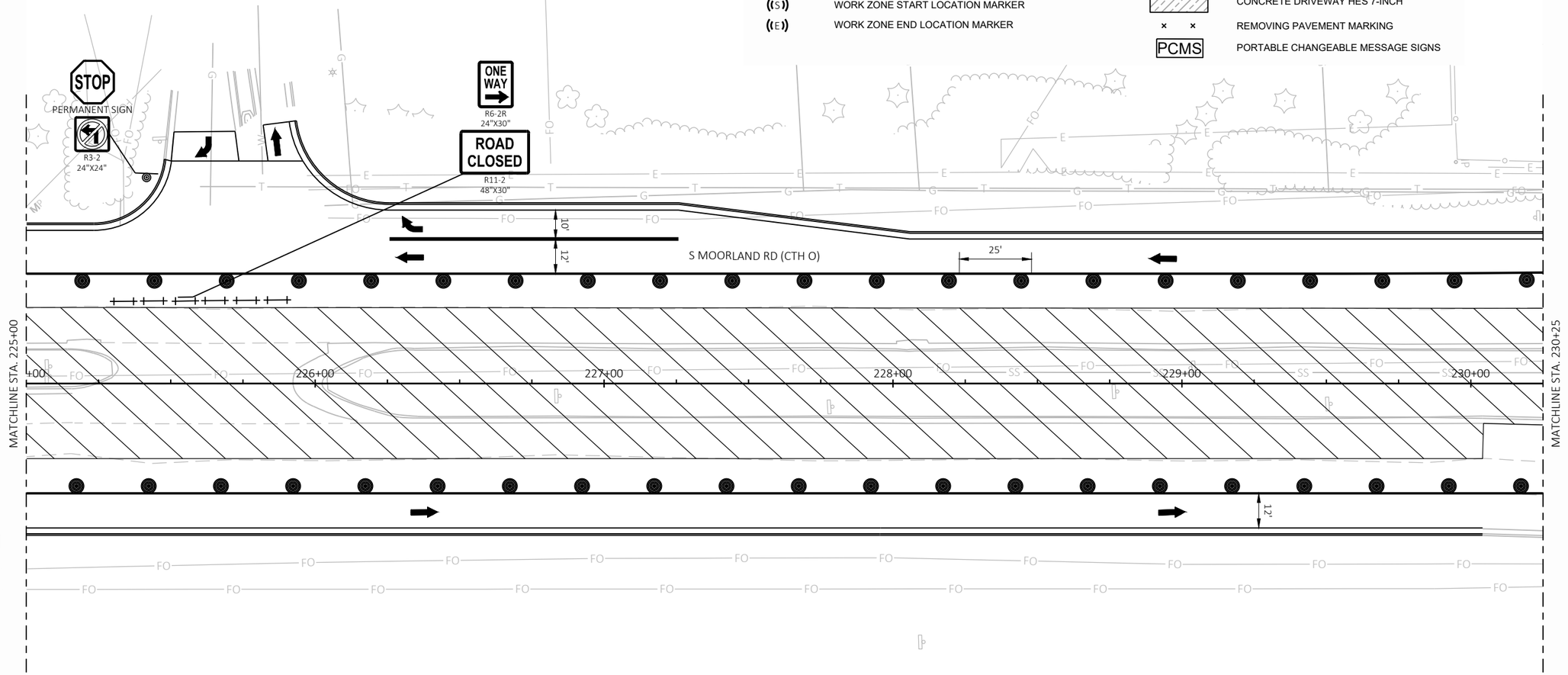
2

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS PORTABLE CHANGEABLE MESSAGE SIGNS

N



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 378	E

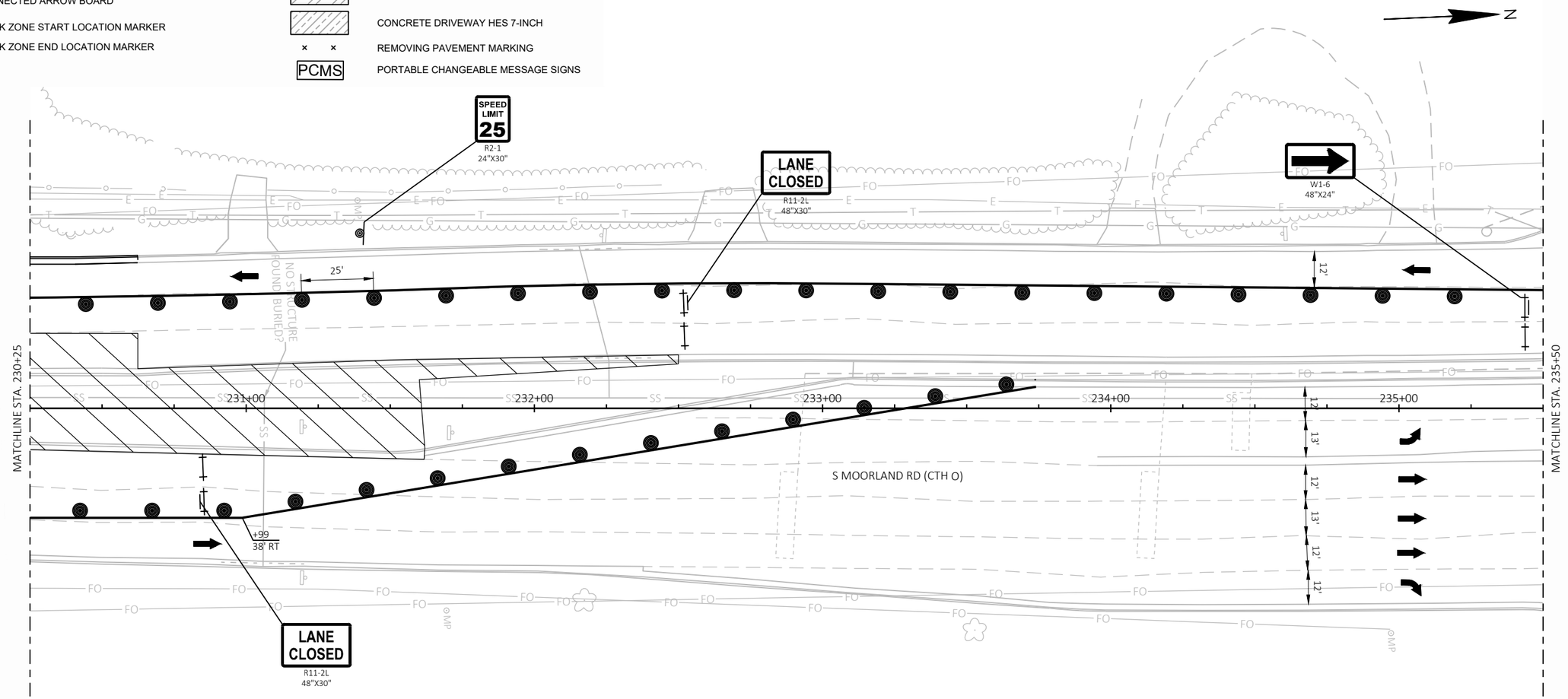
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LAYOUT NAME - 025117-tc

PLOT DATE : 7/23/2026 3:15 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

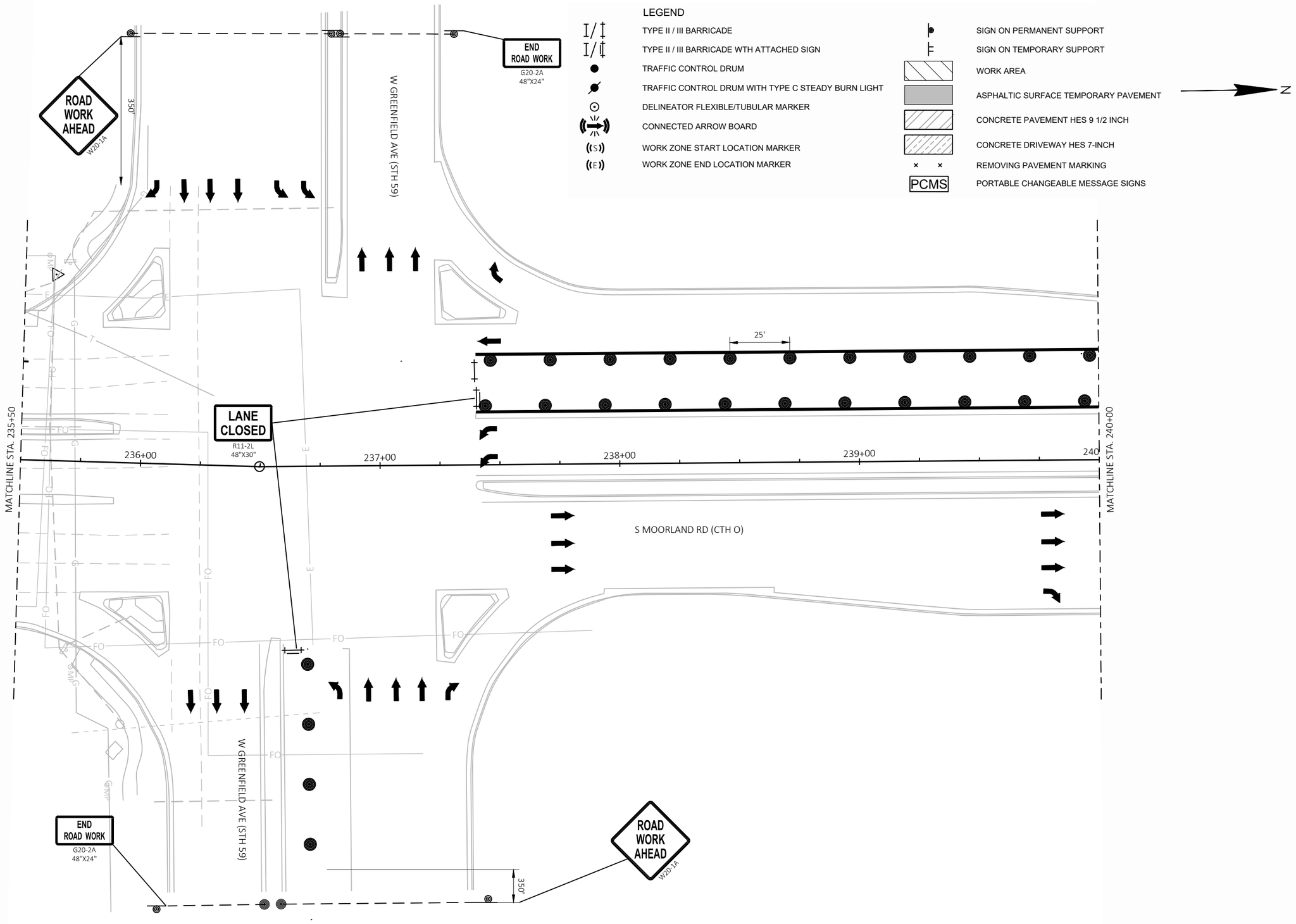
WISDOT/CADDS SHEET 42

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



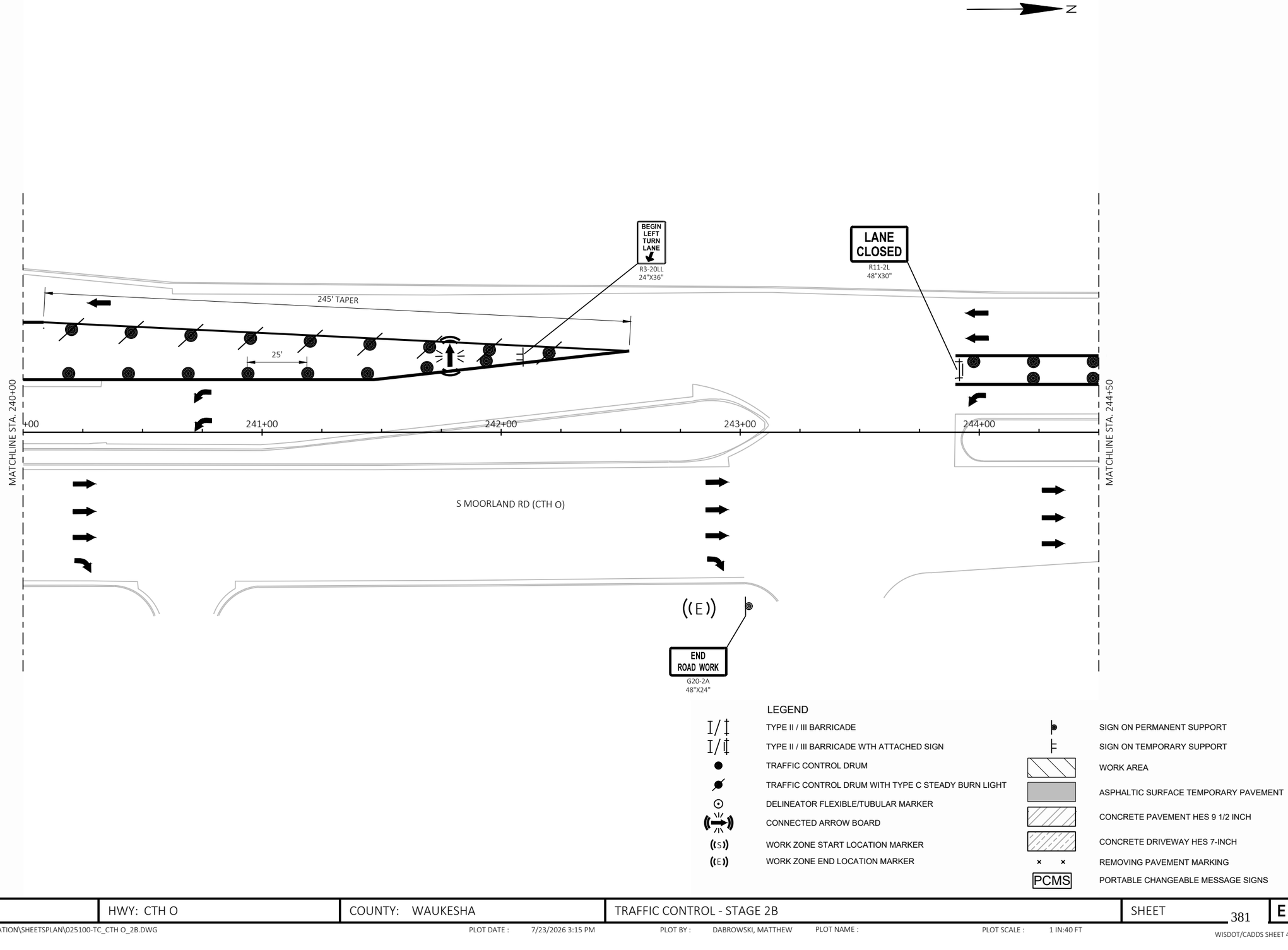
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 380	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025119-tc
PLOT DATE : 7/23/2026 3:15 PM
PLOT BY : DABROWSKI, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



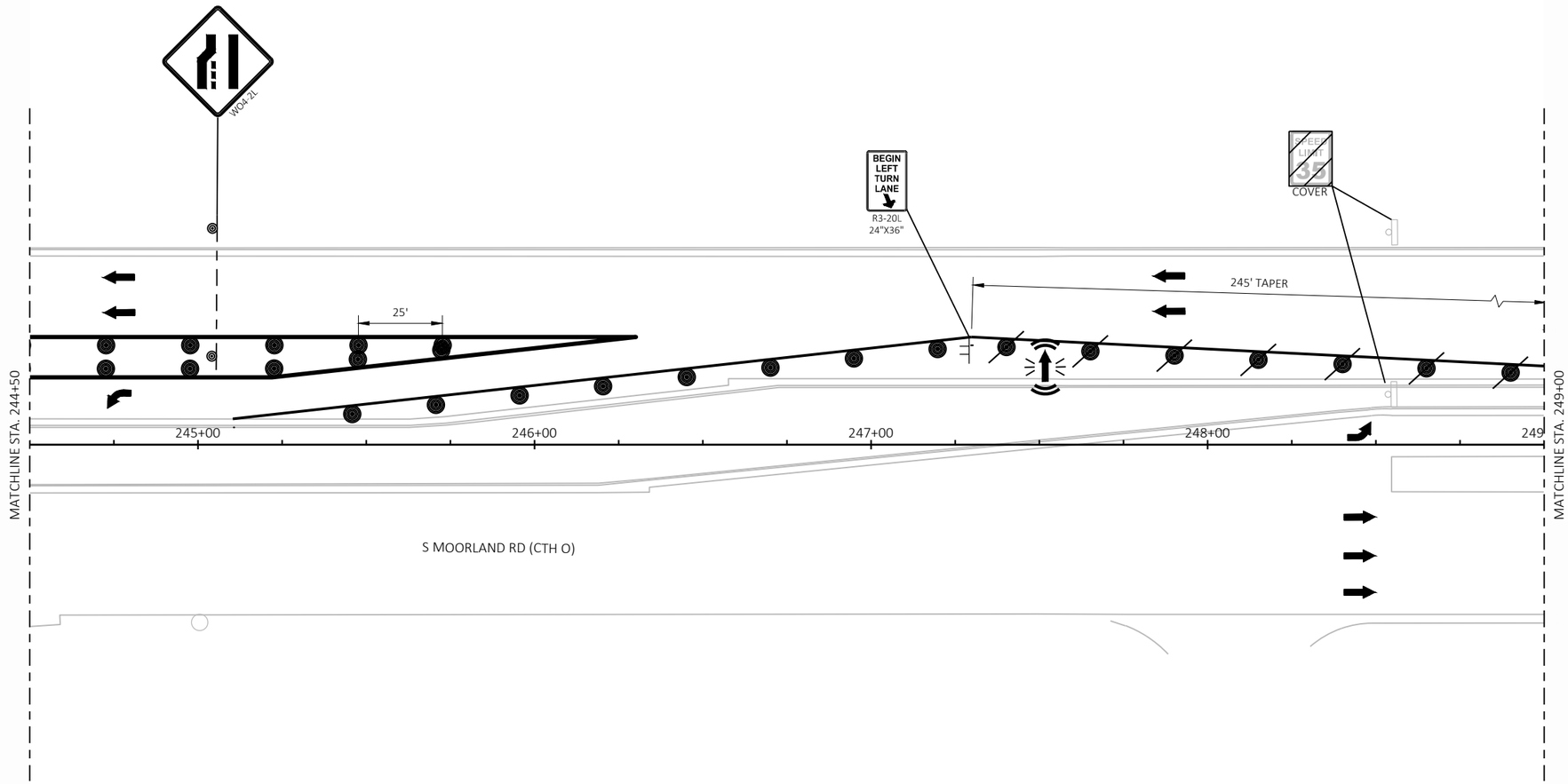
LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 381	E

2

N



LEGEND

	TYPE II / III BARRICADE		SIGN ON PERMANENT SUPPORT
	TYPE II / III BARRICADE WTH ATTACHED SIGN		SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 382	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_2B.DWG
LAYOUT NAME - 025121-tc

PLOT DATE : 7/23/2026 3:15 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

PINEHURST DR

W04-2L

SPEED LIMIT 25

R2-1
24"X30"

W03-5

SPEED LIMIT 25

LEFT LANE CLOSED AHEAD

W20-5SA

ROAD WORK AHEAD

W20-3A

350' 200' 200' 200' 350'

(S)

245' TAPER

25'

MATCHLINE STA. 249+00

+00 250+00 251+00 252+00 253+00 254+00

S MOORLAND RD (CTH O)

LEGEND

	TYPE II / III BARRICADE		SIGN ON PERMANENT SUPPORT
	TYPE II / III BARRICADE WTH ATTACHED SIGN		SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		ASPHALTIC SURFACE TEMPORARY PAVEMENT
	DELINEATOR FLEXIBLE/TUBULAR MARKER		CONCRETE PAVEMENT HES 9 1/2 INCH
	CONNECTED ARROW BOARD		CONCRETE DRIVEWAY HES 7-INCH
(S)	WORK ZONE START LOCATION MARKER	× ×	REMOVING PAVEMENT MARKING
(E)	WORK ZONE END LOCATION MARKER	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2B	SHEET 383	E

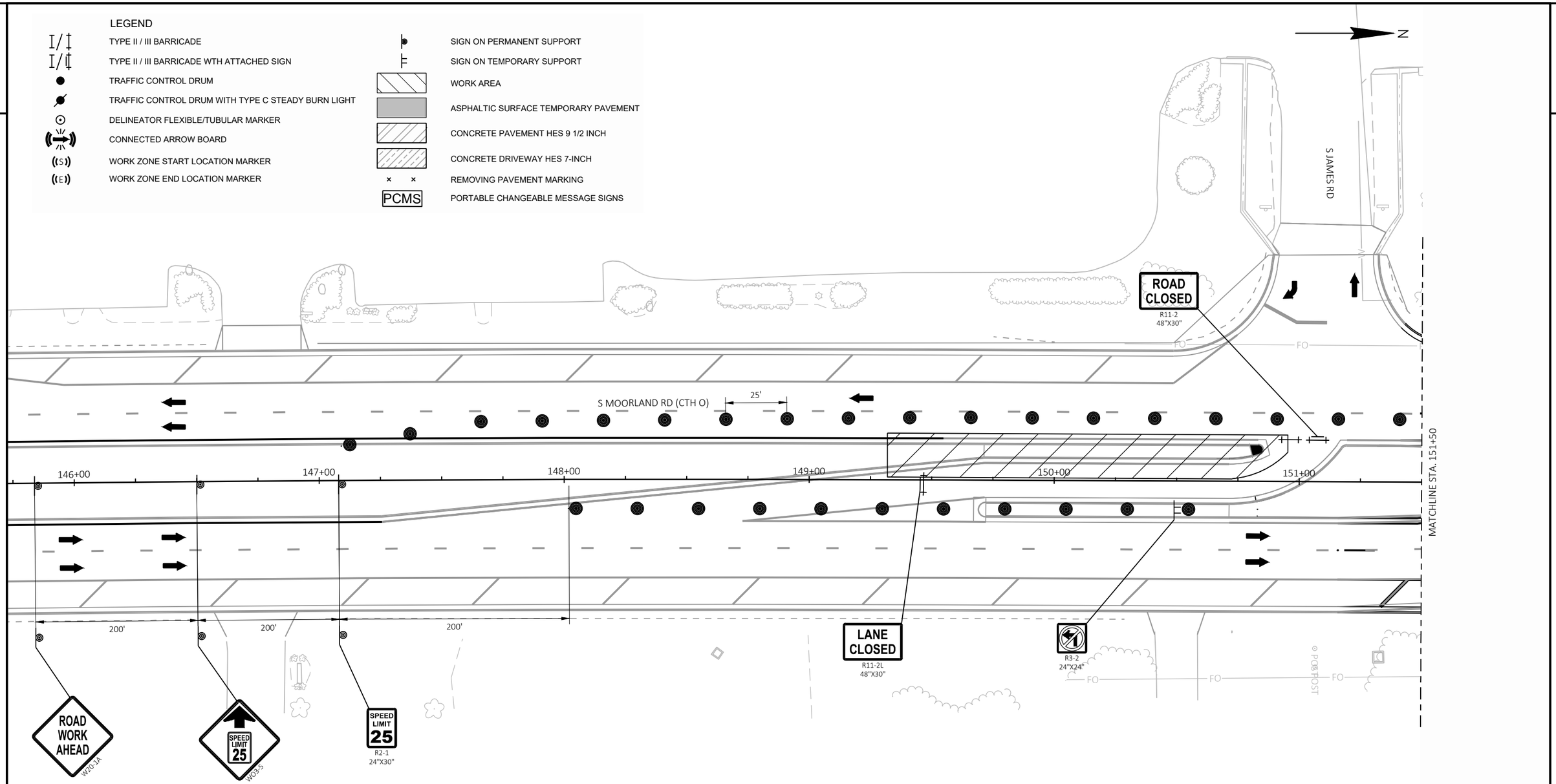
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LAYOUT NAME - 025122-tc

PLOT DATE : 7/23/2026 3:15 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER (S)	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER (E)	PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)



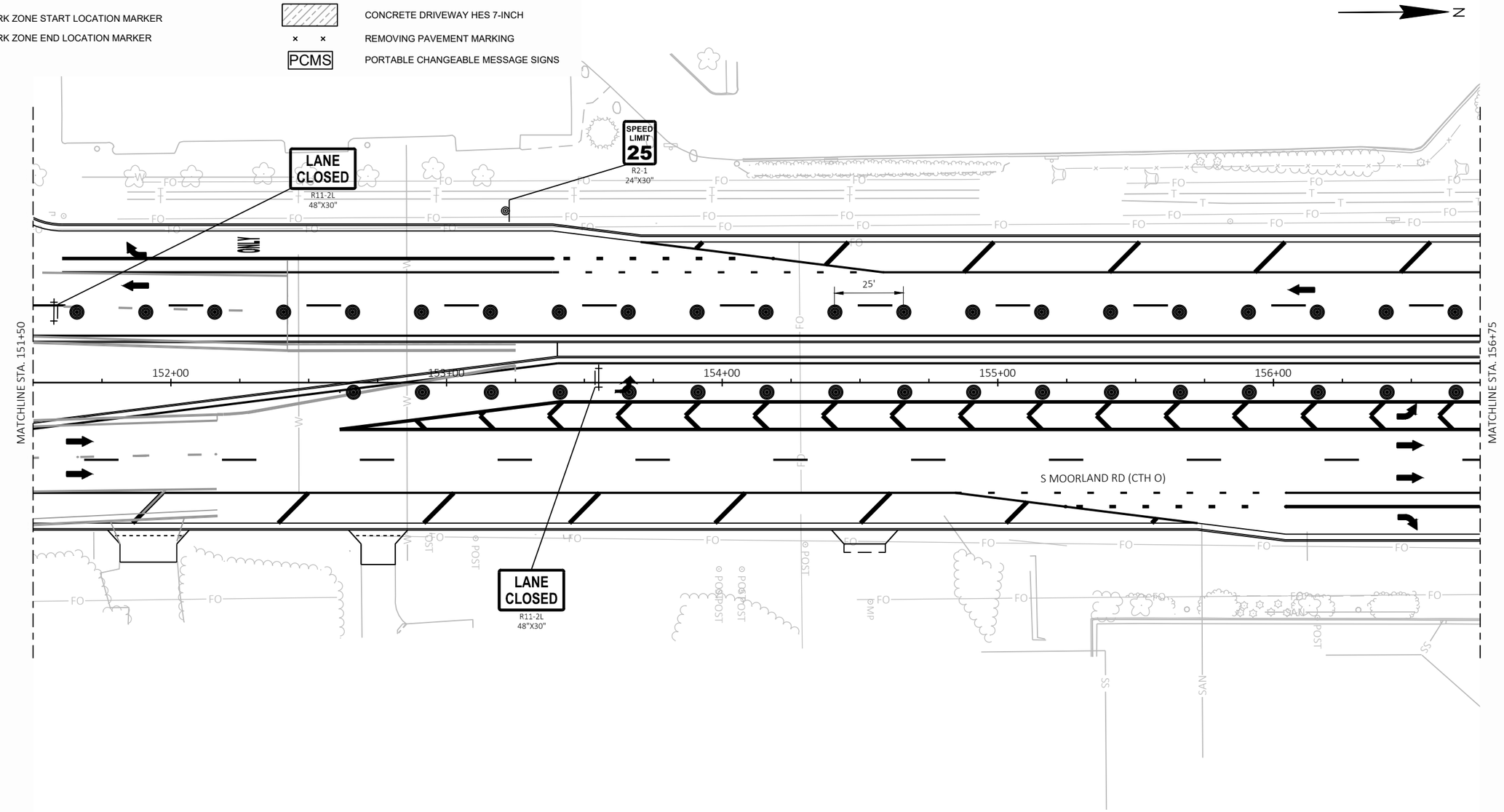
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 384	E

2

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 385	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A.DWG
LAYOUT NAME - 025103-tc

PLOT DATE : 7/23/2026 3:15 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS

N

LANE CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

LANE CLOSED
R11-2L
48"X30"

TEMPORARY MARKING LINE
REMOVABLE TAPE 8-INCH WHITE

25'

S MOORLAND RD (CTH O)

MATCHLINE STA. 156+75

MATCHLINE STA. 162+00

157+00 158+00 159+00 160+00 161+00 162

353+00

354+00

355+00

W CLEVELAND AVE (CTH D)

350'

LANE CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 386	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A.DWG
LAYOUT NAME - 025104-tc

PLOT DATE : 7/23/2026 3:16 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

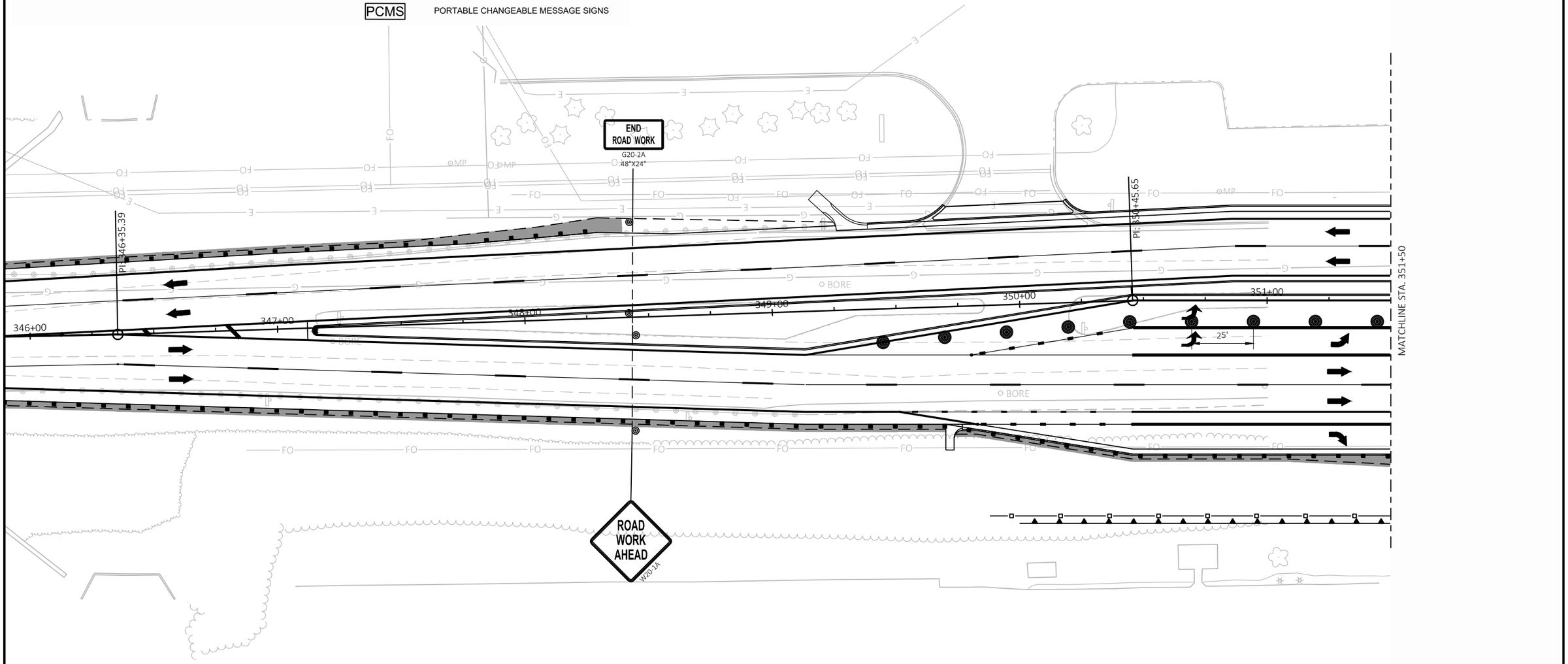
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LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

N

2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 387	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A.DWG
LAYOUT NAME - 025104a-tc

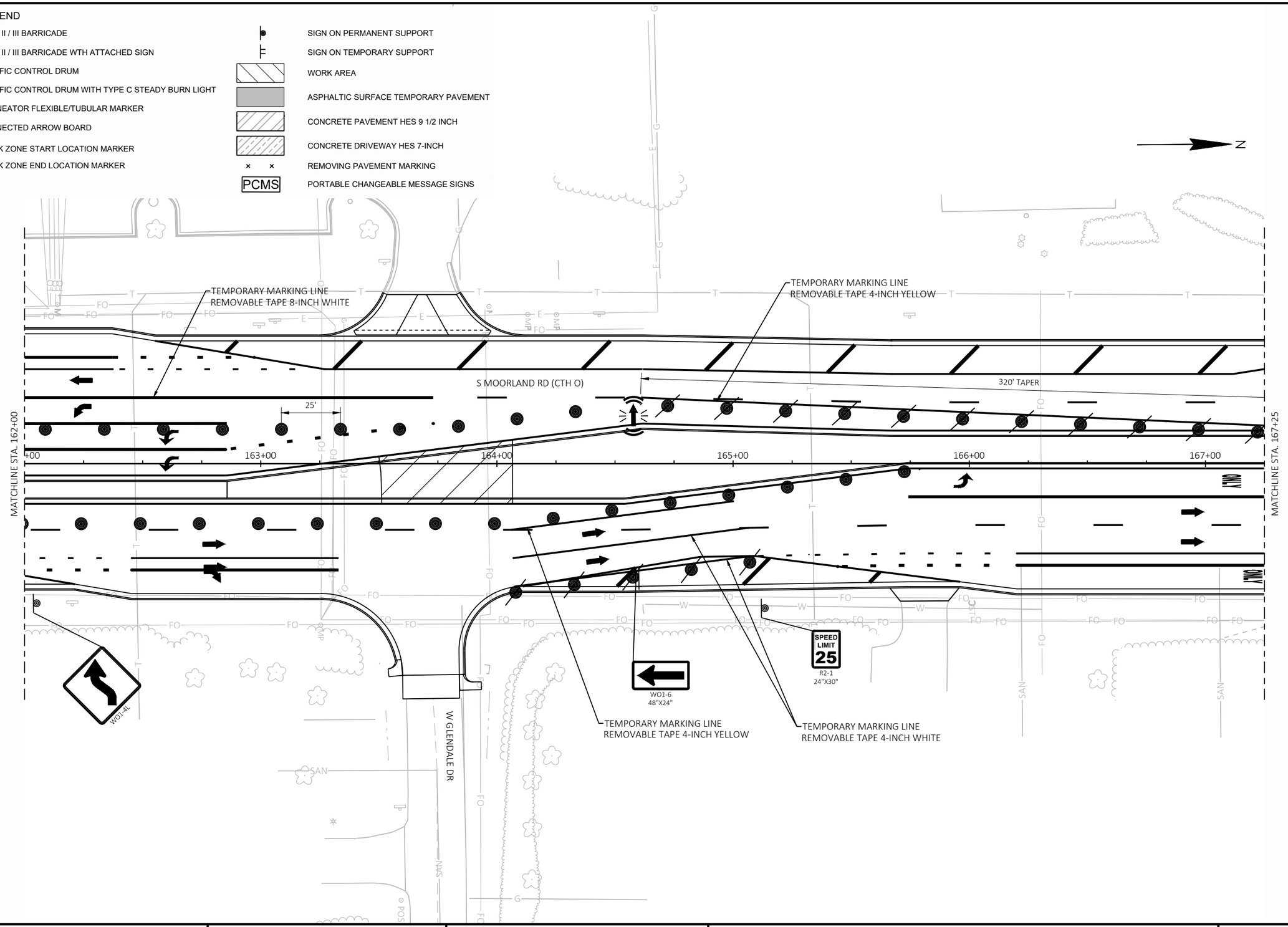
PLOT DATE : 7/23/2026 3:16 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

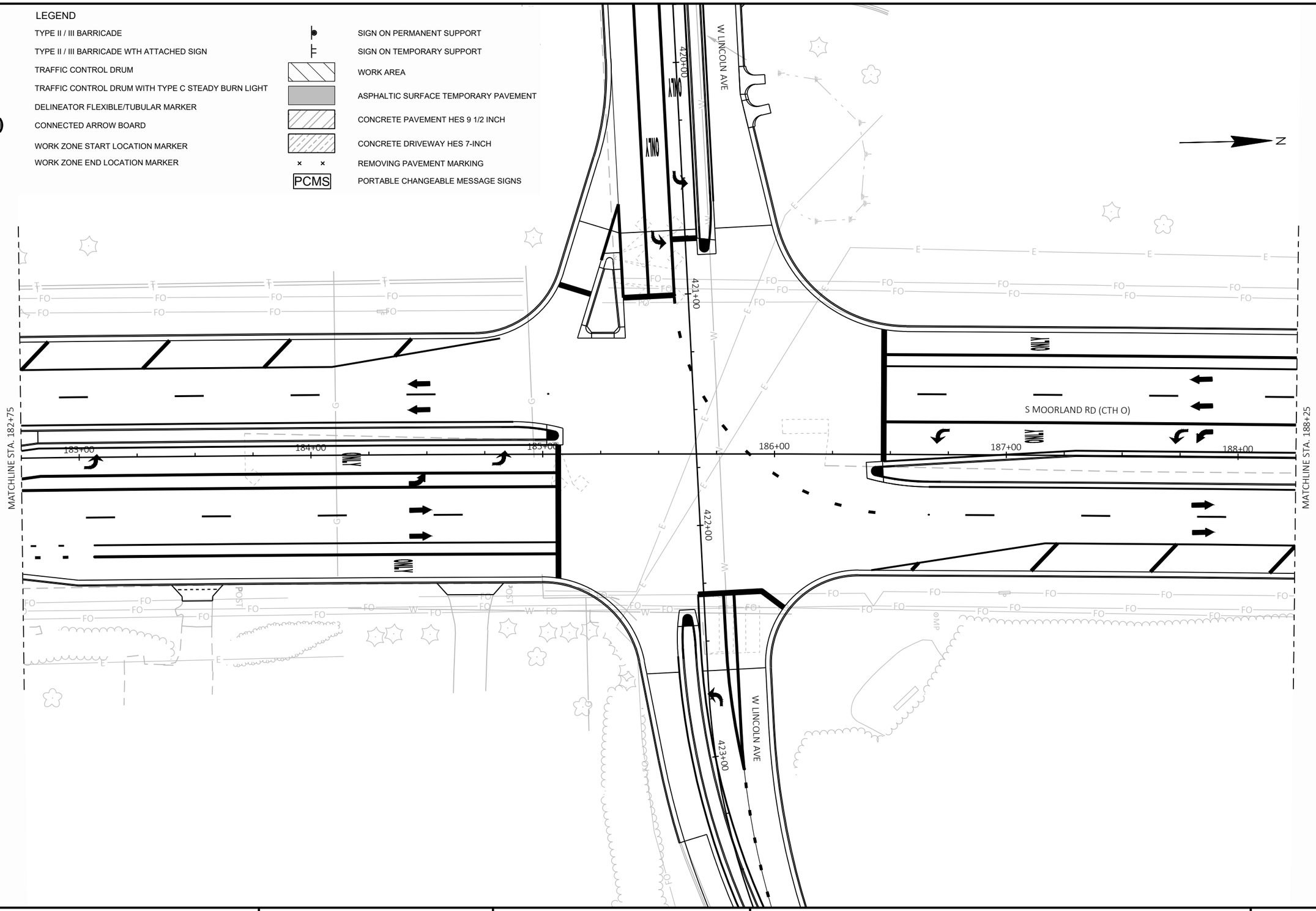


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 388 E

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 389	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A.DWG
LAYOUT NAME - 025109-tc

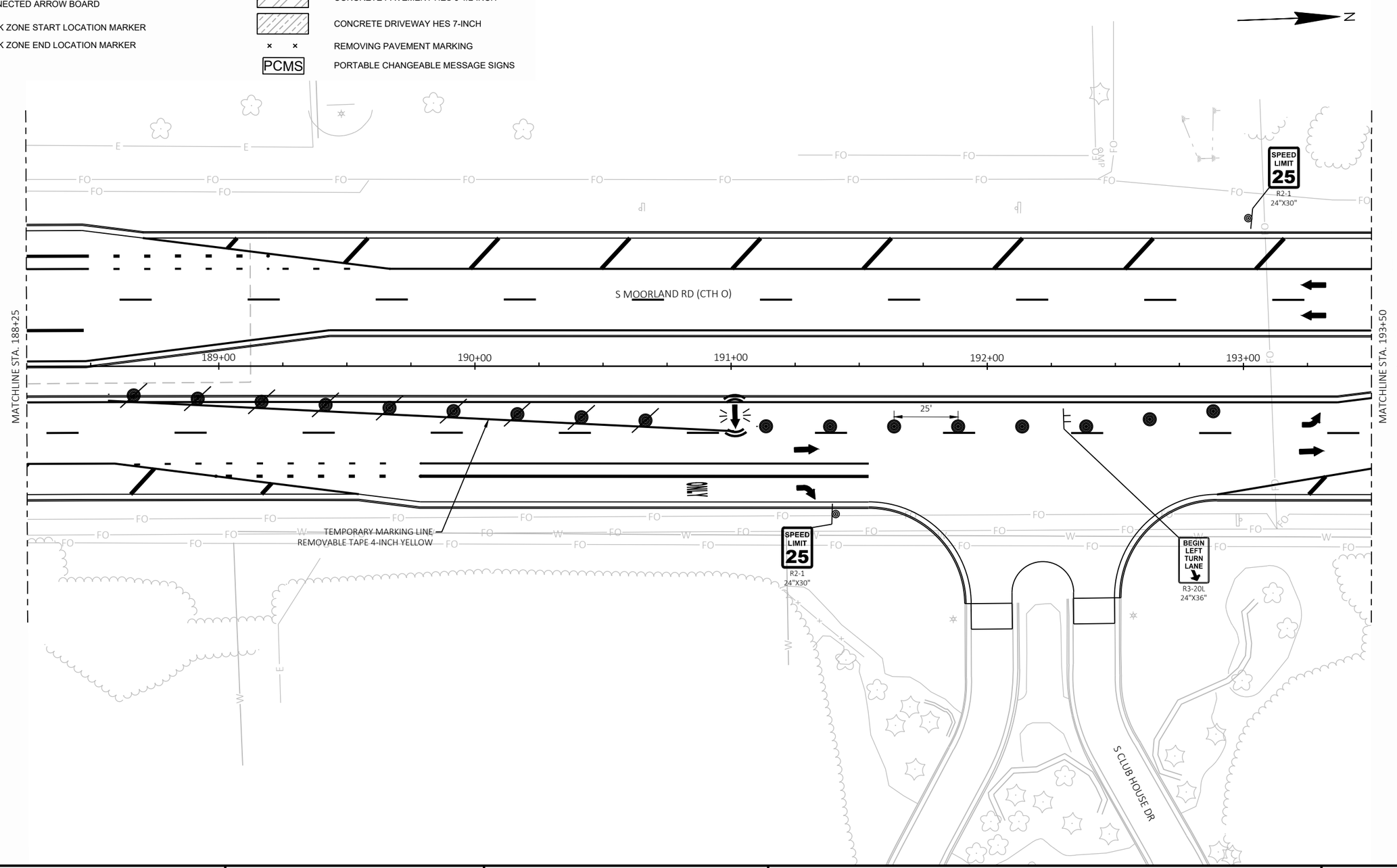
PLOT DATE : 7/23/2026 3:16 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONNECTED ARROW BOARD
- WORK ZONE START LOCATION MARKER
- WORK ZONE END LOCATION MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY PAVEMENT
- CONCRETE PAVEMENT HES 9 1/2 INCH
- CONCRETE DRIVEWAY HES 7-INCH
- REMOVING PAVEMENT MARKING
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 390	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A.DWG
LAYOUT NAME - 025110-tc

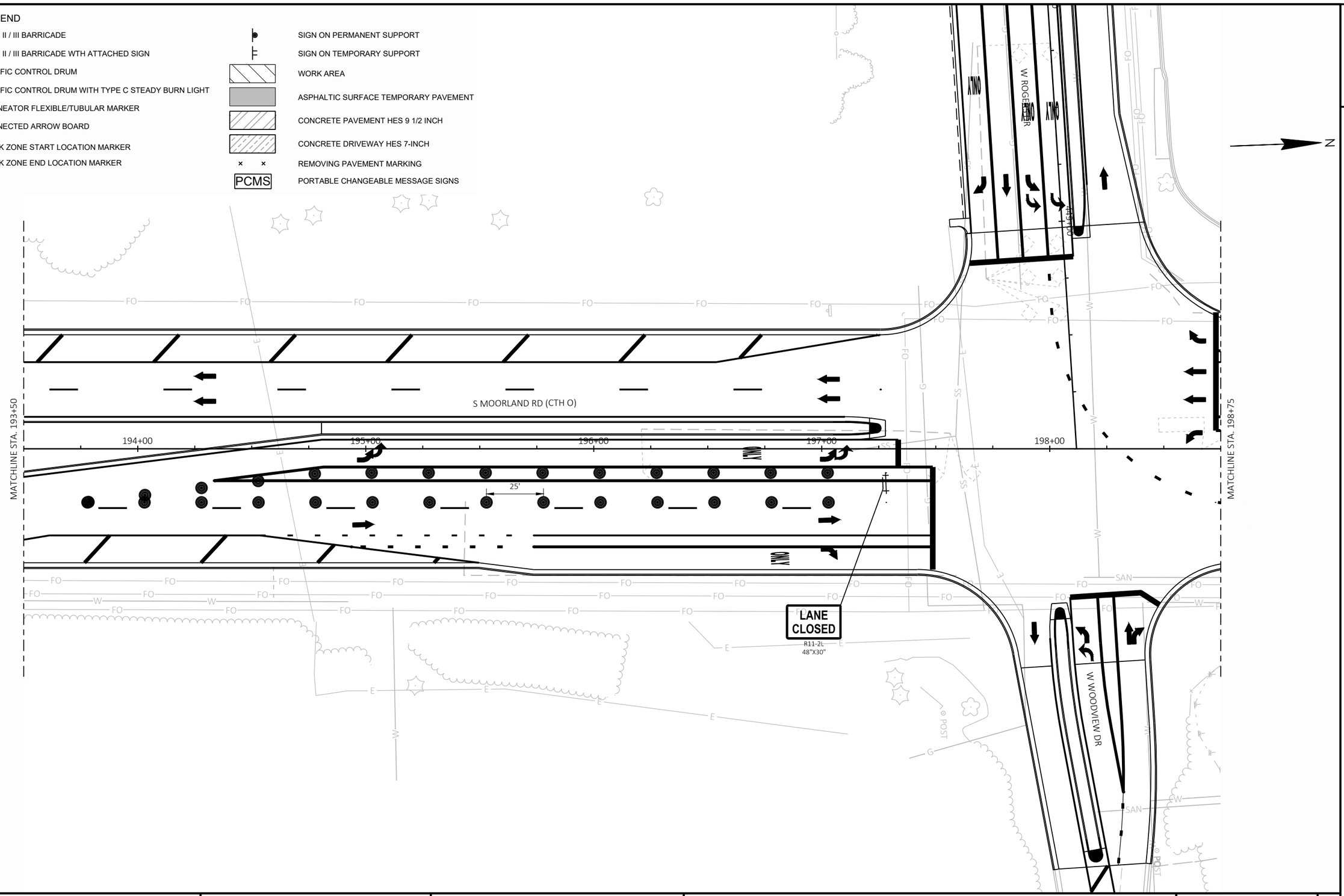
PLOT DATE : 7/23/2026 3:16 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



2

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 391	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A.DWG
LAYOUT NAME - 025111-tc

PLOT DATE : 7/23/2026 3:16 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

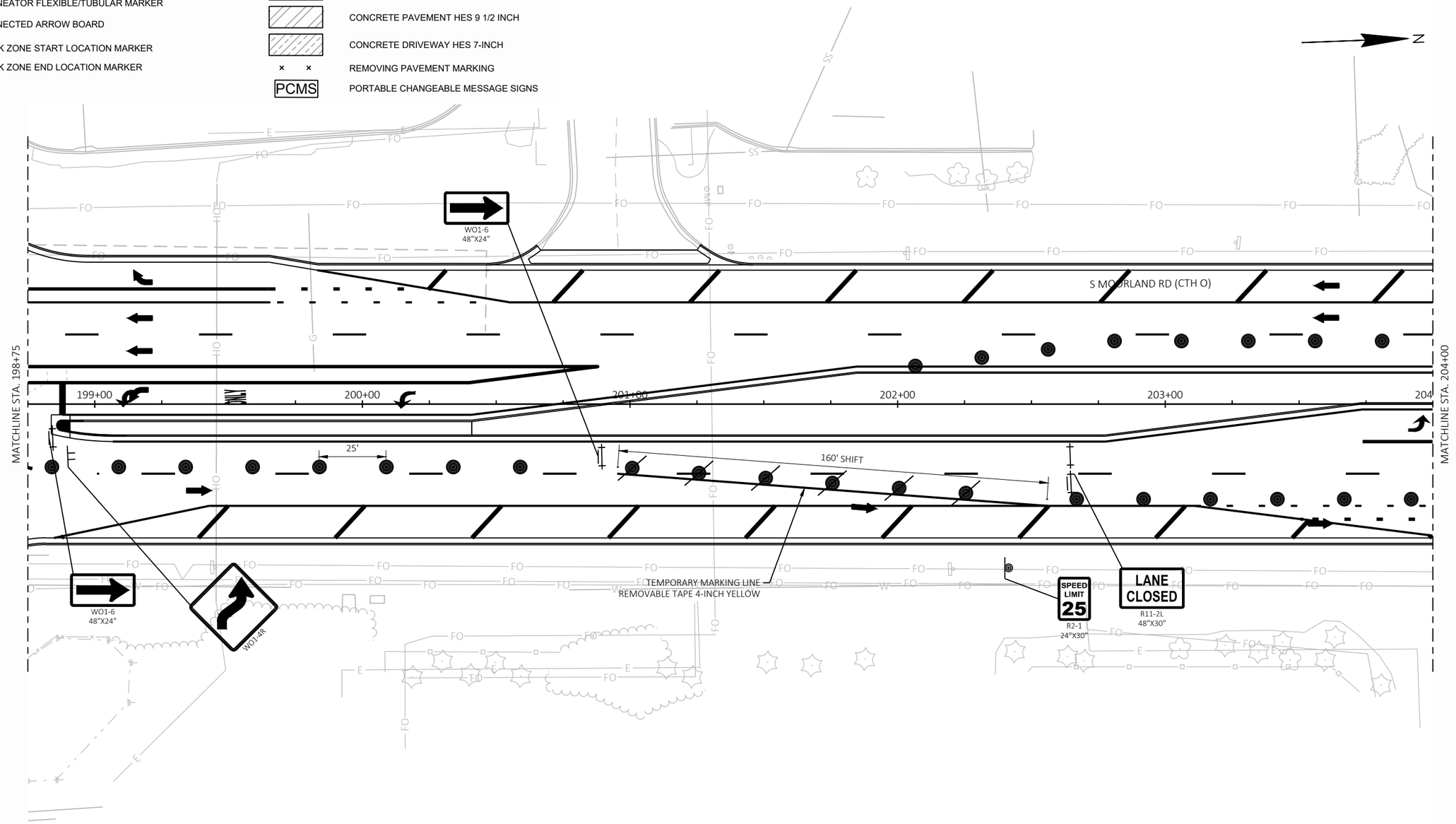
WISDOT/CADDS SHEET 42

2

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 392	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A.DWG
LAYOUT NAME - 025112-tc

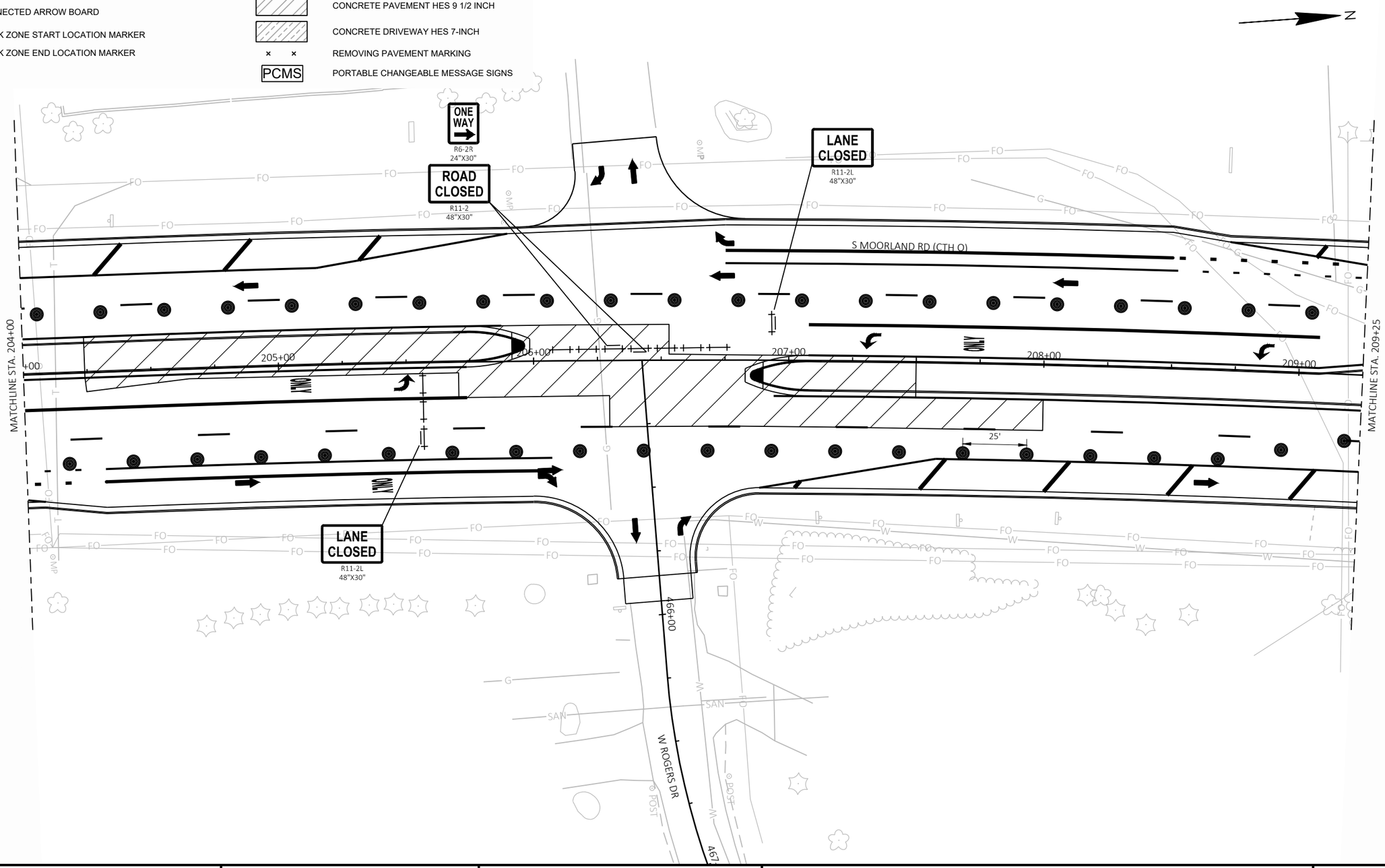
PLOT DATE : 7/23/2026 3:16 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



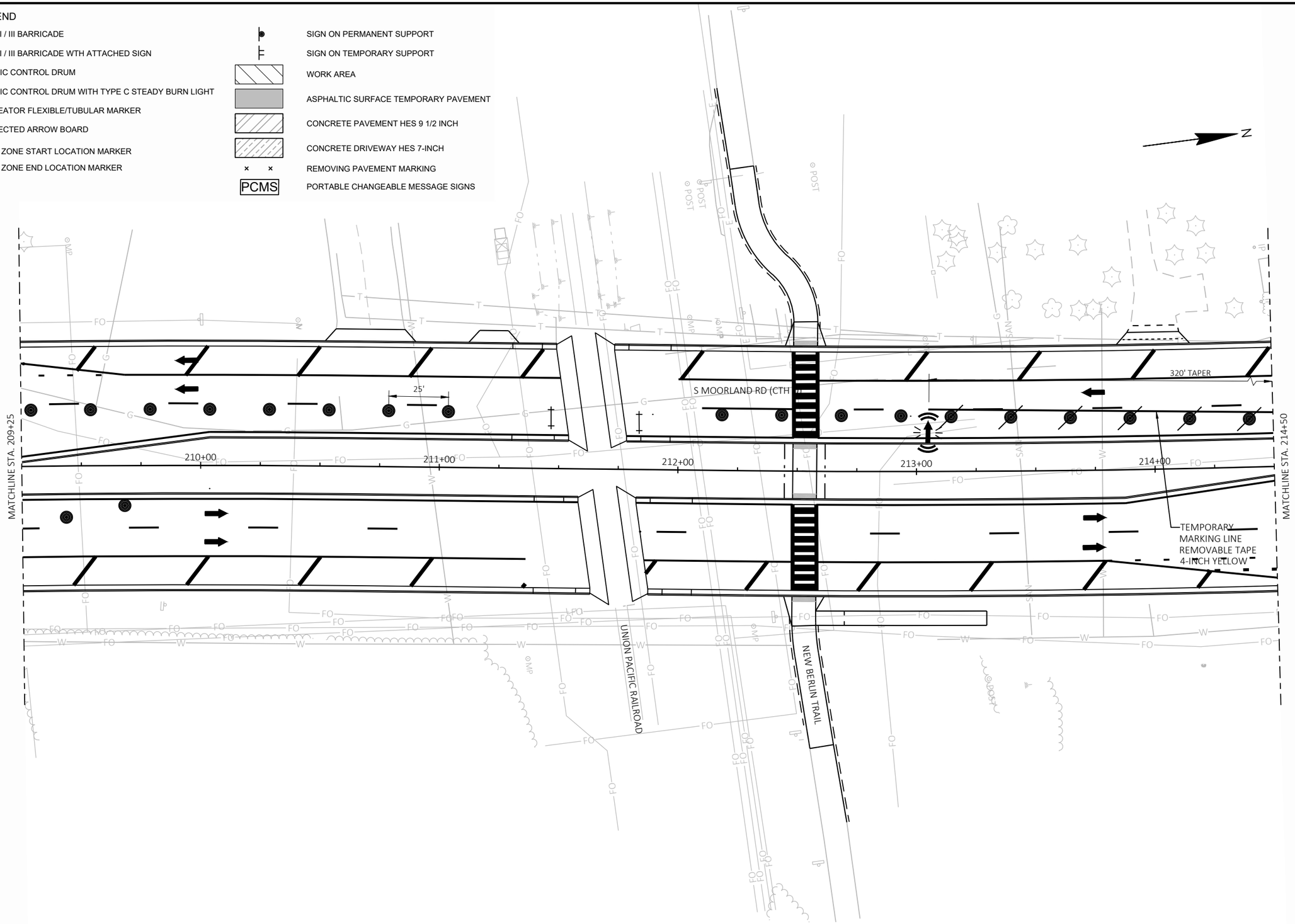
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 393 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A.DWG
LAYOUT NAME - 025113-tc

PLOT DATE : 7/23/2026 3:16 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS

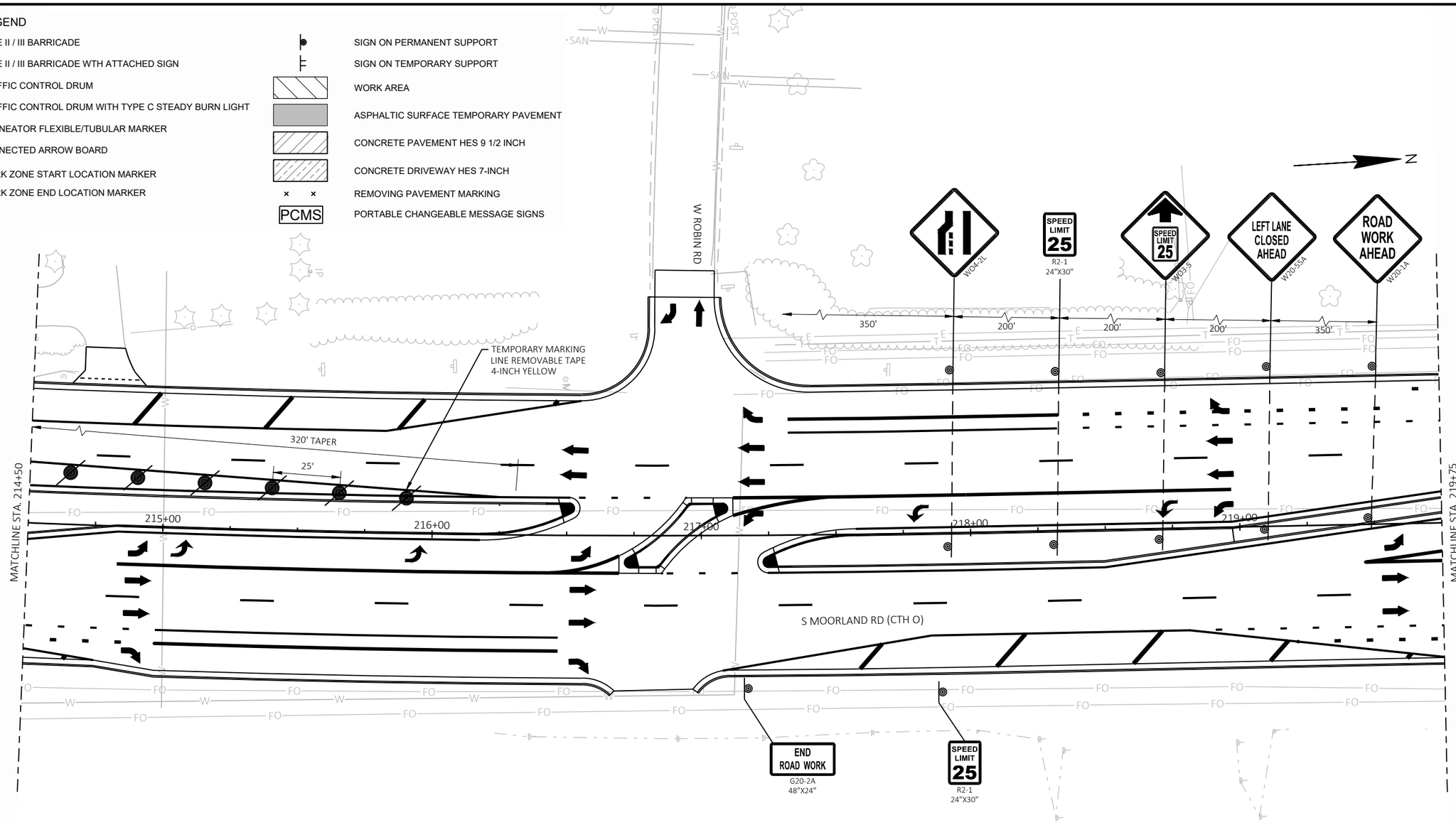


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 394 E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A.DWG
LAYOUT NAME - 025114-tc
PLOT DATE : 7/23/2026 3:17 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

TYPE II / III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE II / III BARRICADE WTH ATTACHED SIGN	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	ASPHALTIC SURFACE TEMPORARY PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	CONCRETE PAVEMENT HES 9 1/2 INCH
CONNECTED ARROW BOARD	CONCRETE DRIVEWAY HES 7-INCH
WORK ZONE START LOCATION MARKER	REMOVING PAVEMENT MARKING
WORK ZONE END LOCATION MARKER	PORTABLE CHANGEABLE MESSAGE SIGNS



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 395	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\025100-TC_CTH O_3A.DWG
LAYOUT NAME - 025115-tc

PLOT DATE : 7/23/2026 3:17 PM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

DETOUR ROUTE

WORK ZONE

TEMPORARY TRAFFIC CONTROL SIGN POST

1
WEST M3-4 24"X12"
W LINCOLN AVE FMS SEE DETAIL
DETOUR AHEAD W20-2A

2
WEST M3-4 24"X12"
W LINCOLN AVE FMS SEE DETAIL
DETOUR M4-59R 30"X30"

3
WEST M3-4 24"X12"
W LINCOLN AVE
DETOUR M4-9R 30"X24"

4
WEST M3-4 24"X12"
W LINCOLN AVE FMS SEE DETAIL
DETOUR M4-9RA 30"X24"

5
END DETOUR M4-8A 24"X18"
WEST M3-4 24"X12"
W LINCOLN AVE FMS SEE DETAIL

6
WEST M3-4 24"X12"
W LINCOLN AVE FMS SEE DETAIL
DETOUR M4-59L 30"X30"

7
WEST M3-4 24"X12"
W LINCOLN AVE FMS SEE DETAIL
DETOUR M4-9L 30"X24"

NOTES

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

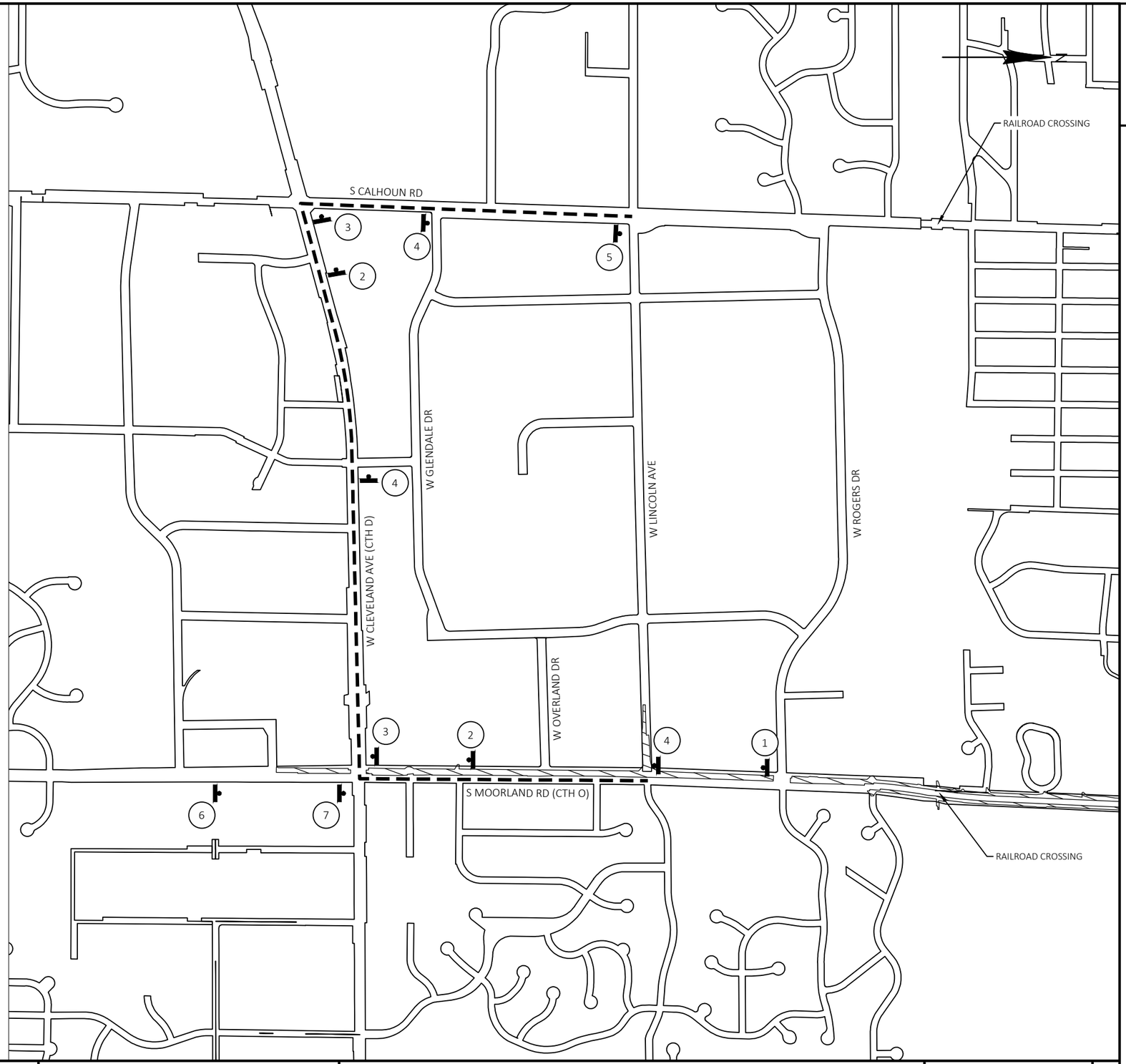
IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES.

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

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

FOLLOW SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR MAINLINE CLOSURE WITH POSTED DETOUR SIGNAGE.

DO NOT PLACE ANY ITEMS WITHIN 50-FEET OF THE RAILROAD RIGHT-OF-WAY.



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	DETOUR PLAN - STAGE 1A - LINCOLN AVE WEST LEG	SHEET 396	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\027001-DT_CTH O_1A.DWG
LAYOUT NAME - 027001-dt
PLOT DATE : 7/22/2026 10:52 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

LEGEND

DETOUR ROUTE

WORK ZONE

TEMPORARY TRAFFIC CONTROL SIGN POST

1
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
DETOUR AHEAD W20-2A

2
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1R 21"X21"

3
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

4
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1L 21"X21"

5
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

6
DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

7
END DETOUR M4-8A 24"X18"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"

8
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
DETOUR AHEAD W20-2A

9
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1R 21"X21"

10
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

11
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1L 21"X21"

12
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

13
DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

14
END DETOUR M4-8A 24"X18"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"

NOTES

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

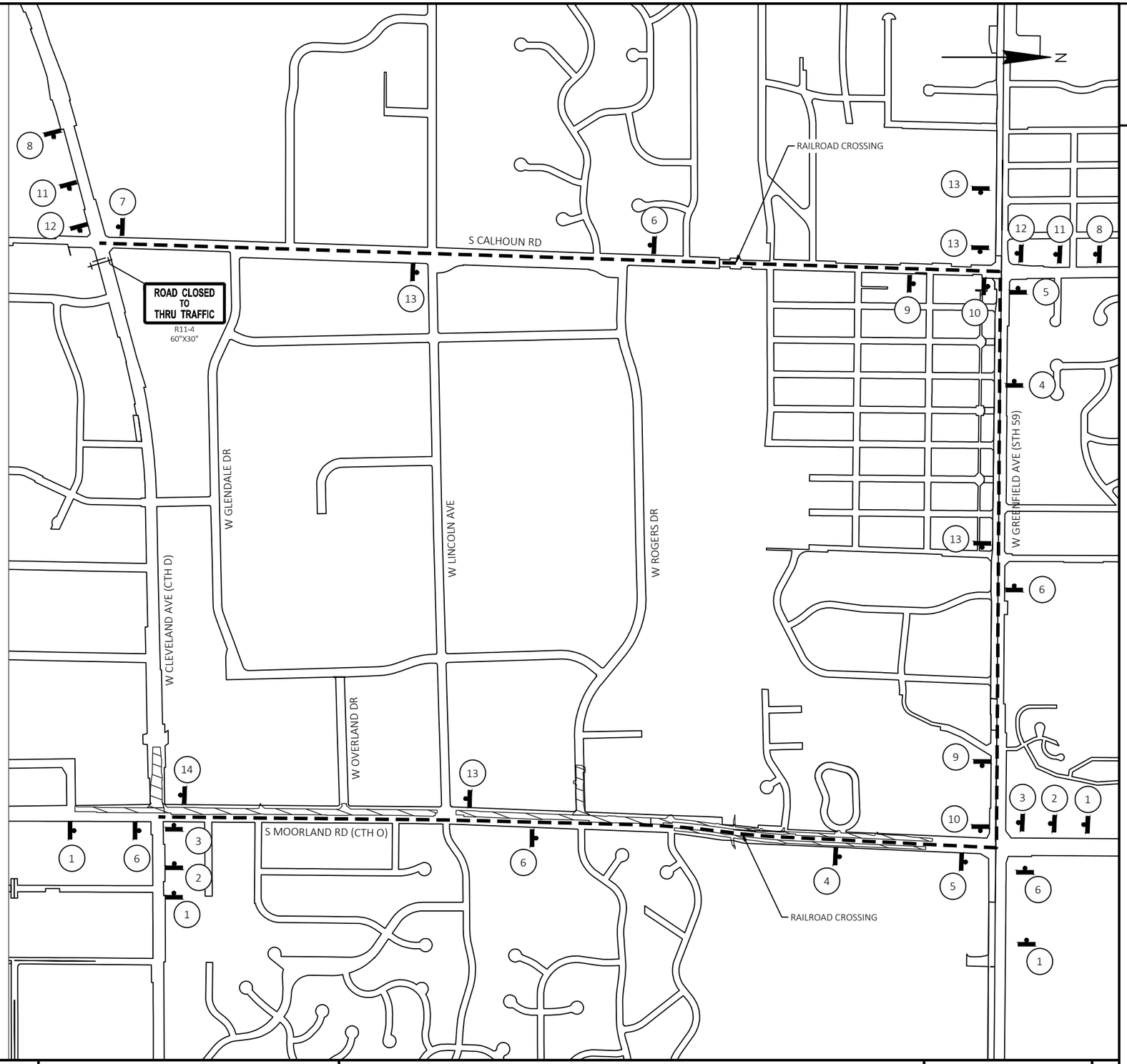
IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES.

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

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

FOLLOW SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR MAINLINE CLOSURE WITH POSTED DETOUR SIGNAGE.

DO NOT PLACE ANY ITEMS WITHIN 50-FEET OF THE RAILROAD RIGHT-OF-WAY.



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	DETOUR PLAN - STAGE 1B - CLEVELAND AVE WEST LEG	SHEET 397	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\027002-DT_CTH O_1B.DWG
LAYOUT NAME - 027002-dt
PLOT DATE : 7/22/2026 10:52 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########

2

LEGEND

DETOUR ROUTE

WORK ZONE

TEMPORARY TRAFFIC CONTROL SIGN POST

1

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

2

DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1R 21"X21"

3

DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

4

DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1L 21"X21"

5

DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

6

DETOUR M4-8 24"X12"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

7

END DETOUR M4-8A 24"X18"
EAST M3-2 24"X12"
COUNTY D M1-5A 24"X24"

8

WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
DETOUR AHEAD W20-2A

9

DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1R 21"X21"

10

DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

11

DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1L 21"X21"

12

DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

13

DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

14

END DETOUR M4-8A 24"X18"
WEST M3-4 24"X12"
COUNTY D M1-5A 24"X24"

NOTES

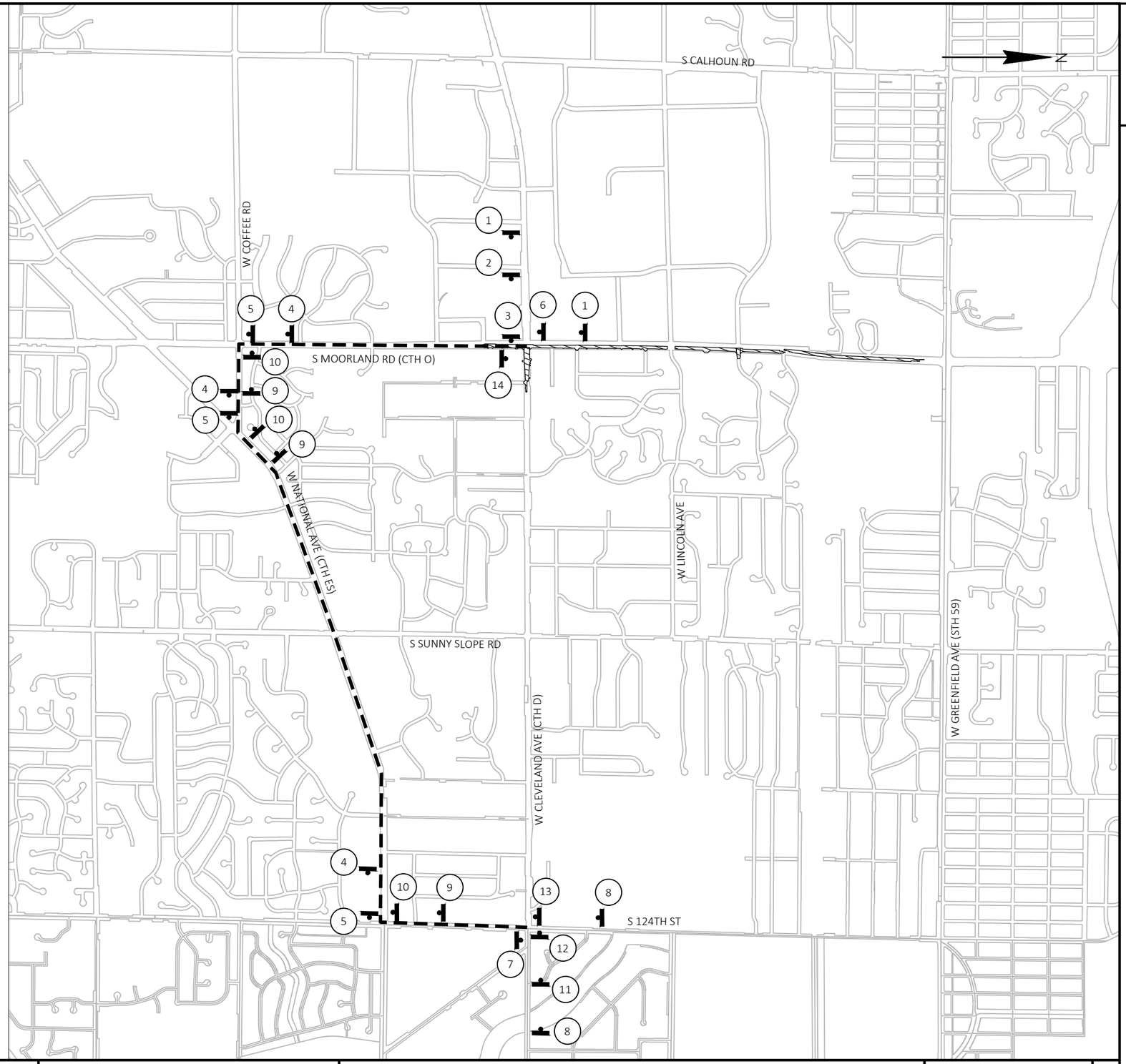
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES.

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FOLLOW SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR MAINLINE CLOSURE WITH POSTED DETOUR SIGNAGE.



2

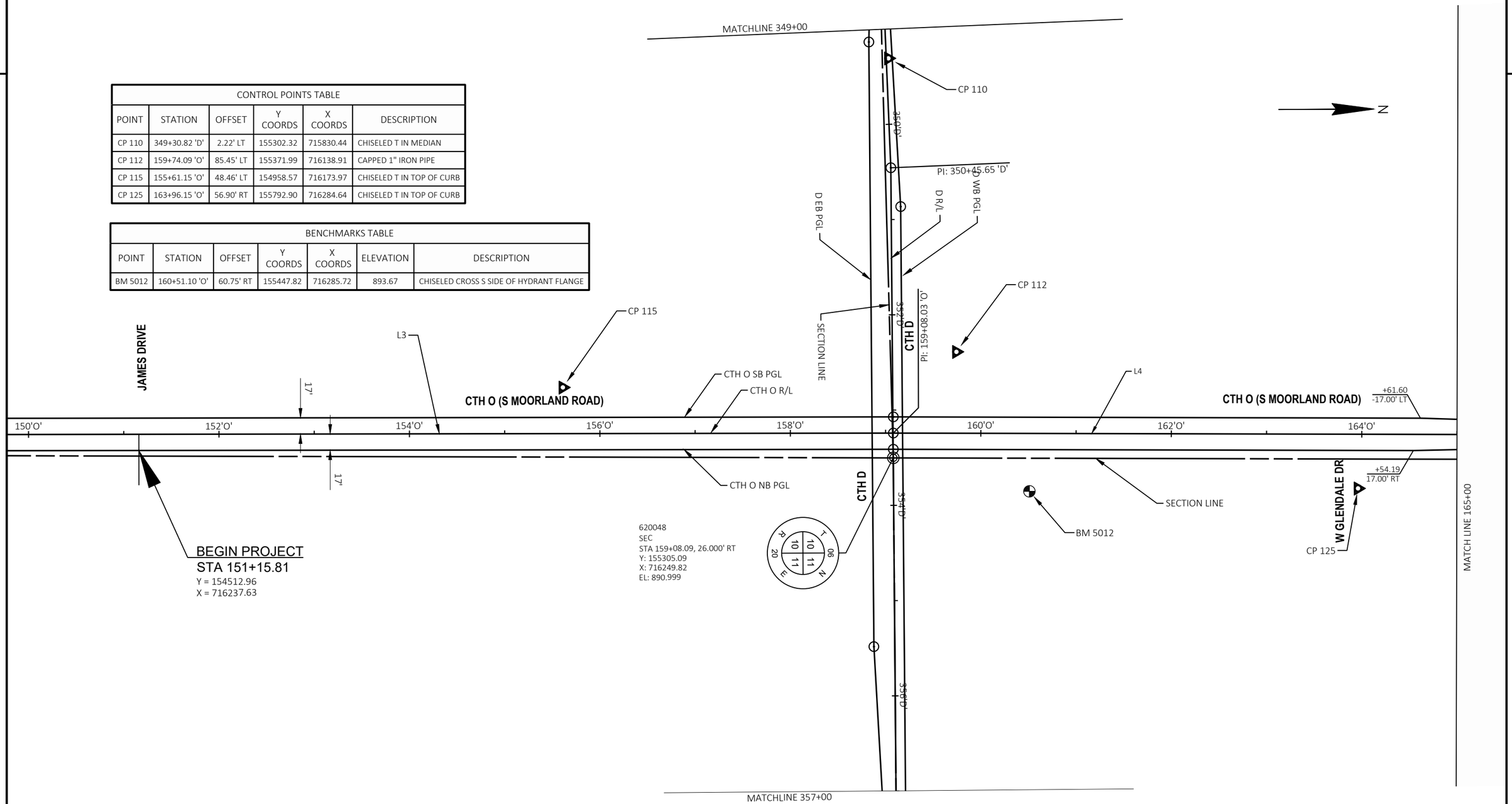
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	DETOUR PLAN - STAGE 2A - CLEVELAND AVE EAST LEG	SHEET 398	E

FILE NAME : X:\ML\2022\20220750\DESIGN\TRANSPORTATION\SHEETSPLAN\027003-DT_CTH O_2A.DWG
LAYOUT NAME - 027003-dt
PLOT DATE : 7/22/2026 10:52 AM PLOT BY : DABROWSKI, MATTHEW PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

CONTROL POINTS TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	DESCRIPTION
CP 110	349+30.82 'D'	2.22' LT	155302.32	715830.44	CHISELED T IN MEDIAN
CP 112	159+74.09 'O'	85.45' LT	155371.99	716138.91	CAPPED 1" IRON PIPE
CP 115	155+61.15 'O'	48.46' LT	154958.57	716173.97	CHISELED T IN TOP OF CURB
CP 125	163+96.15 'O'	56.90' RT	155792.90	716284.64	CHISELED T IN TOP OF CURB

BENCHMARKS TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
BM 5012	160+51.10 'O'	60.75' RT	155447.82	716285.72	893.67	CHISELED CROSS S SIDE OF HYDRANT FLANGE



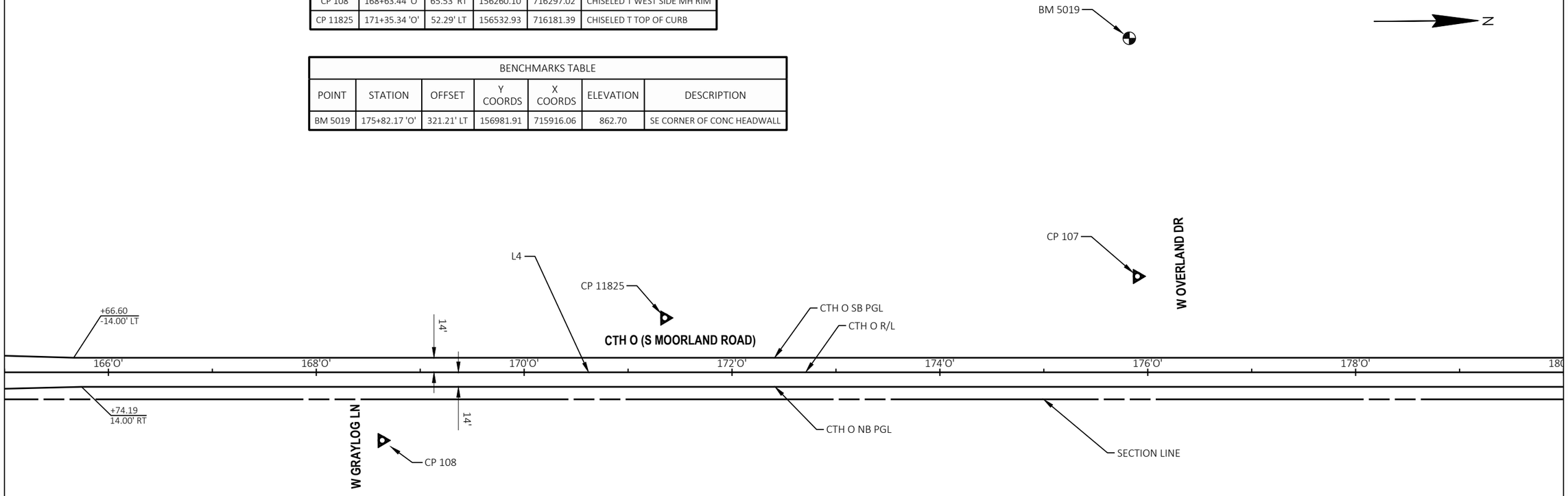
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 399	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\027201-AD.DWG
LAYOUT NAME - 01
PLOT DATE : 4/28/2026 11:41 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

CONTROL POINTS TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	DESCRIPTION
CP 107	175+89.99 'O'	92.27' LT	156987.89	716145.06	CHISELED T TOP RCP
CP 108	168+63.44 'O'	65.53' RT	156260.10	716297.02	CHISELED T WEST SIDE MH RIM
CP 11825	171+35.34 'O'	52.29' LT	156532.93	716181.39	CHISELED T TOP OF CURB

BENCHMARKS TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
BM 5019	175+82.17 'O'	321.21' LT	156981.91	715916.06	862.70	SE CORNER OF CONC HEADWALL



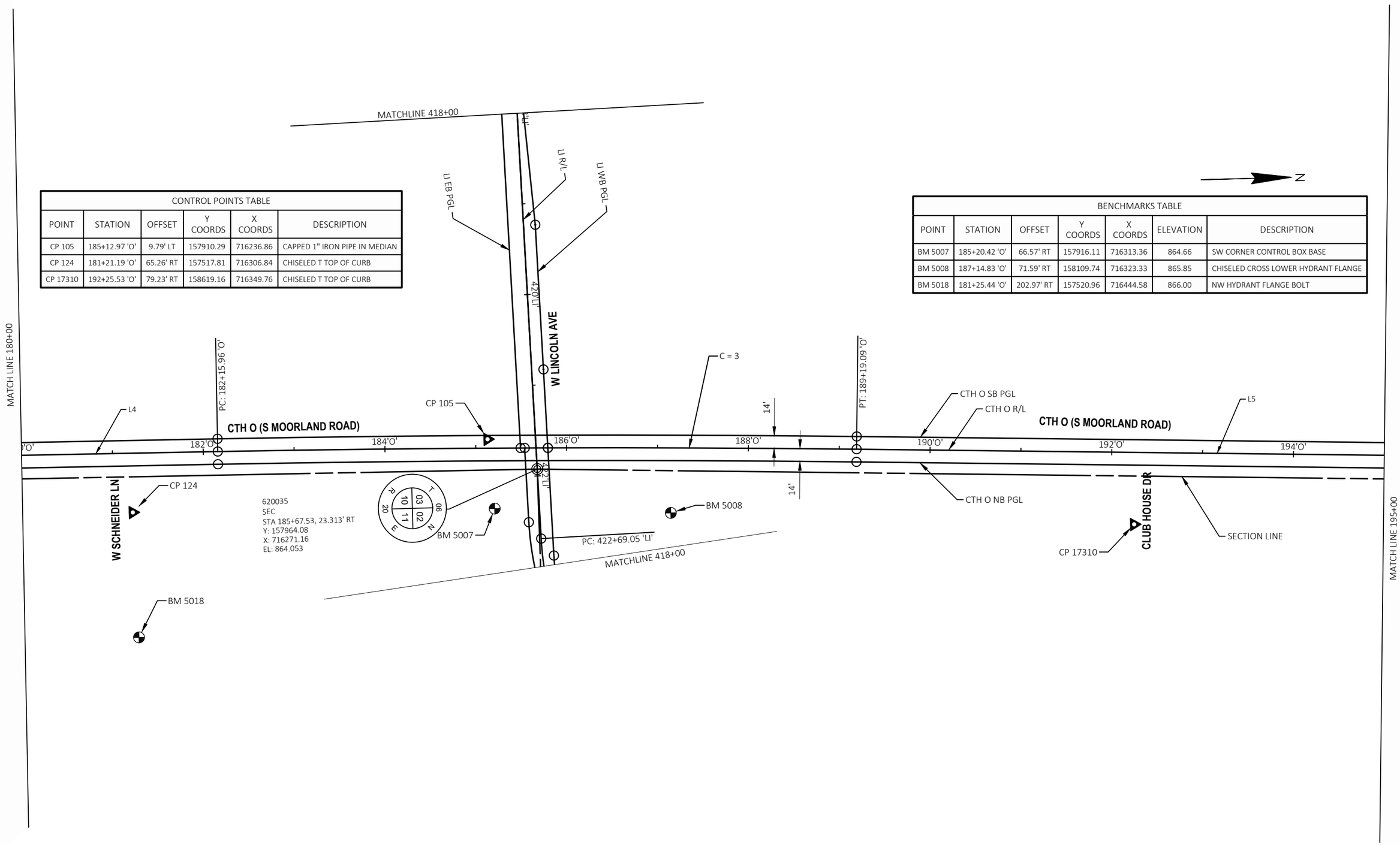
2

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 400	E

2

CONTROL POINTS TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	DESCRIPTION
CP 105	185+12.97 'O'	9.79' LT	157910.29	716236.86	CAPPED 1" IRON PIPE IN MEDIAN
CP 124	181+21.19 'O'	65.26' RT	157517.81	716306.84	CHISELED T TOP OF CURB
CP 17310	192+25.53 'O'	79.23' RT	158619.16	716349.76	CHISELED T TOP OF CURB

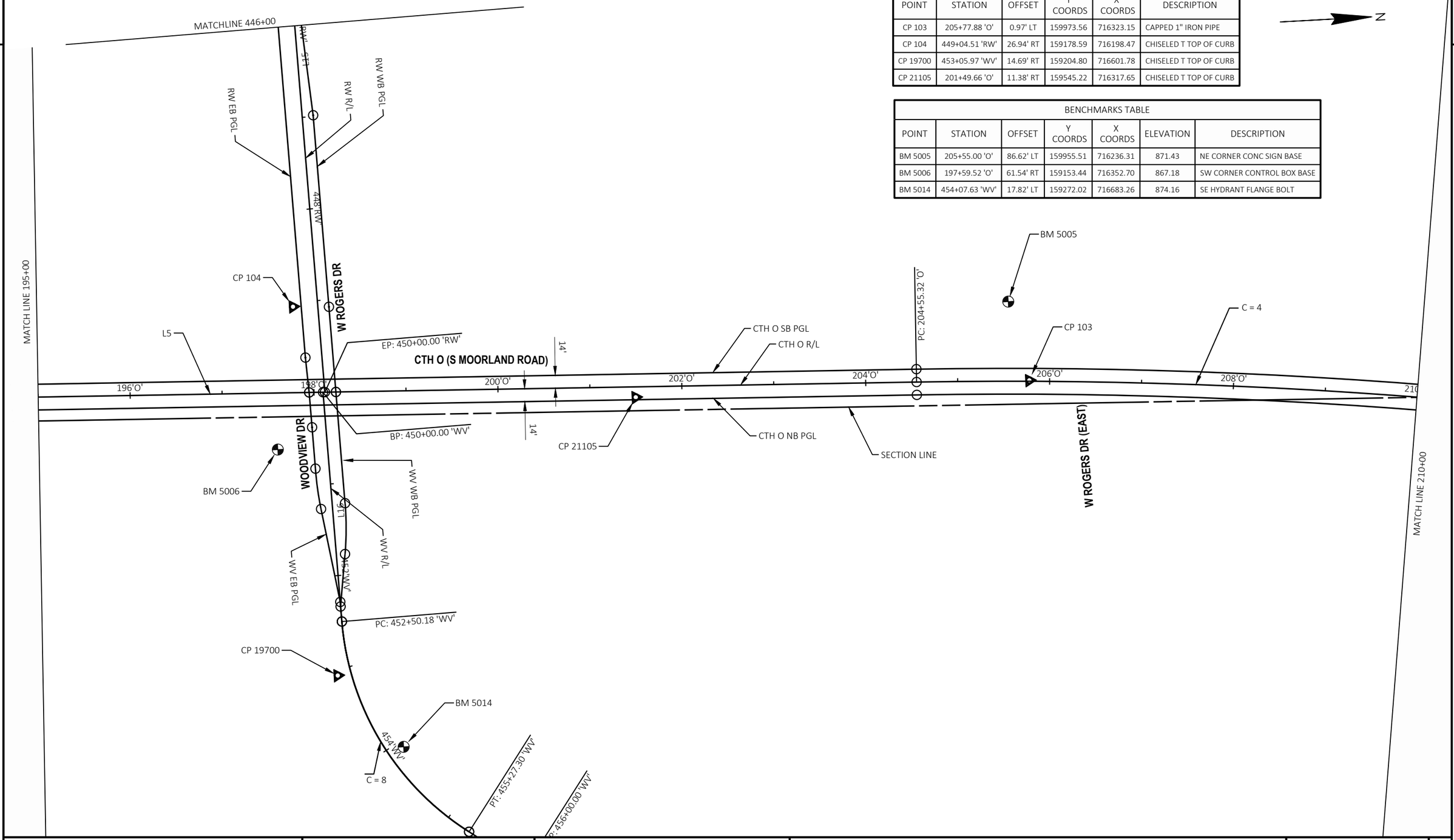
BENCHMARKS TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
BM 5007	185+20.42 'O'	66.57' RT	157916.11	716313.36	864.66	SW CORNER CONTROL BOX BASE
BM 5008	187+14.83 'O'	71.59' RT	158109.74	716323.33	865.85	CHISELED CROSS LOWER HYDRANT FLANGE
BM 5018	181+25.44 'O'	202.97' RT	157520.96	716444.58	866.00	NW HYDRANT FLANGE BOLT



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 401	E

CONTROL POINTS TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	DESCRIPTION
CP 103	205+77.88 'O'	0.97' LT	159973.56	716323.15	CAPPED 1" IRON PIPE
CP 104	449+04.51 'RW'	26.94' RT	159178.59	716198.47	CHISELED T TOP OF CURB
CP 19700	453+05.97 'WV'	14.69' RT	159204.80	716601.78	CHISELED T TOP OF CURB
CP 21105	201+49.66 'O'	11.38' RT	159545.22	716317.65	CHISELED T TOP OF CURB

BENCHMARKS TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
BM 5005	205+55.00 'O'	86.62' LT	159955.51	716236.31	871.43	NE CORNER CONC SIGN BASE
BM 5006	197+59.52 'O'	61.54' RT	159153.44	716352.70	867.18	SW CORNER CONTROL BOX BASE
BM 5014	454+07.63 'WV'	17.82' LT	159272.02	716683.26	874.16	SE HYDRANT FLANGE BOLT



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 402	E

CONTROL POINTS TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	DESCRIPTION
CP 102	216+58.03 'O'	52.25' RT	161043.13	716495.14	CHISELED T TOP OF CURB
CP 122	222+08.10 'O'	68.04' LT	161599.18	716401.14	CHISELED T TOP OF CURB
CP 123	212+28.48 'O'	0.04' RT	160619.71	716397.37	ALUM MONUMENT IN MEDIAN

BENCHMARKS TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
BM 5002	217+26.42 'O'	225.02' LT	161127.79	716222.66	852.36	NE HYDRANT FLANGE BOLT
BM 5003	212+46.04 'O'	115.95' LT	160653.41	716285.02	864.59	CHISELED CROSS CONC BASE SW LEG TRANS TOWER
BM 5004	213+96.40 'O'	56.22' RT	160779.79	716474.87	862.80	CHISELED CROSS HYDRANT NOZZLE
BM 5016	220+87.55 'O'	128.99' LT	161481.45	716334.91	851.70	N CORNER TRANS PAD

N

BM 5002

NEW BERLIN TRAIL R/L

L18

BM 5003

L19

C = 9

C = 10

MATCH LINE 210+00

PT: 210+62.78 'O'

C4

L6

PC: 212+28.57

L20

SECTION LINE

W ROBIN RD

CTH O SB PGL

CTH O R/L

PT: 217+98.52 'O'

BM 5016

W RIDGE RD

CP 122

L7

14'

CTH O (S MOORLAND ROAD)

212'O'

214'O'

216'O'

218'O'

220'O'

222'O'

224'O'

C = 5

CTH O NB PGL

CP 102

14'

MATCH LINE 225+00

T 06 N R 20 E

03 02 03 02

620022
SEC
STA 212+16.82, 22.396' LT
Y: 160611.39
X: 716373.49
EL: 861.230

CP 123

C = 11

L21

NEW BERLIN TRAIL

L22

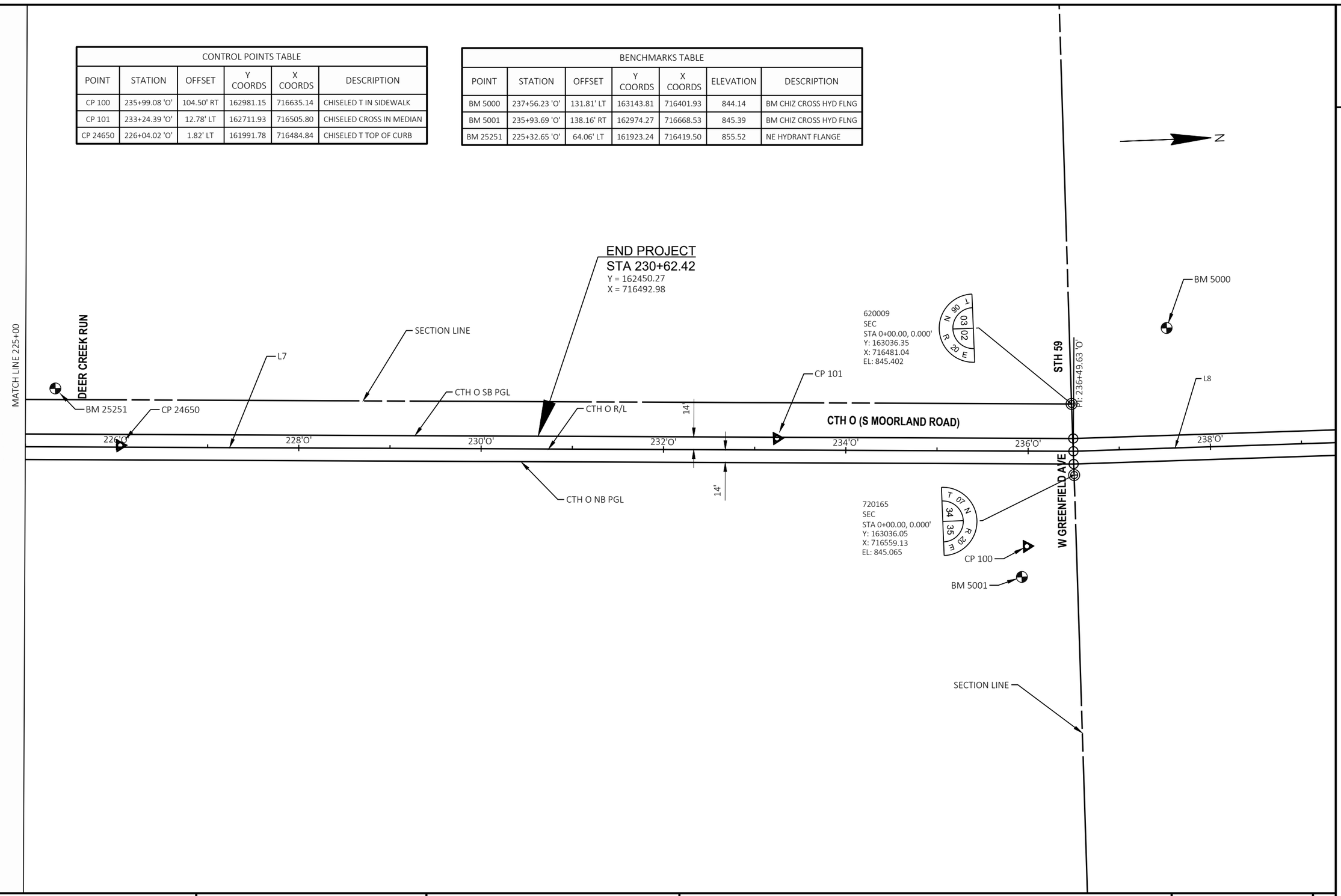
BM 5004

SECTION LINE

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 403	E

CONTROL POINTS TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	DESCRIPTION
CP 100	235+99.08 'O'	104.50' RT	162981.15	716635.14	CHISELED T IN SIDEWALK
CP 101	233+24.39 'O'	12.78' LT	162711.93	716505.80	CHISELED CROSS IN MEDIAN
CP 24650	226+04.02 'O'	1.82' LT	161991.78	716484.84	CHISELED T TOP OF CURB

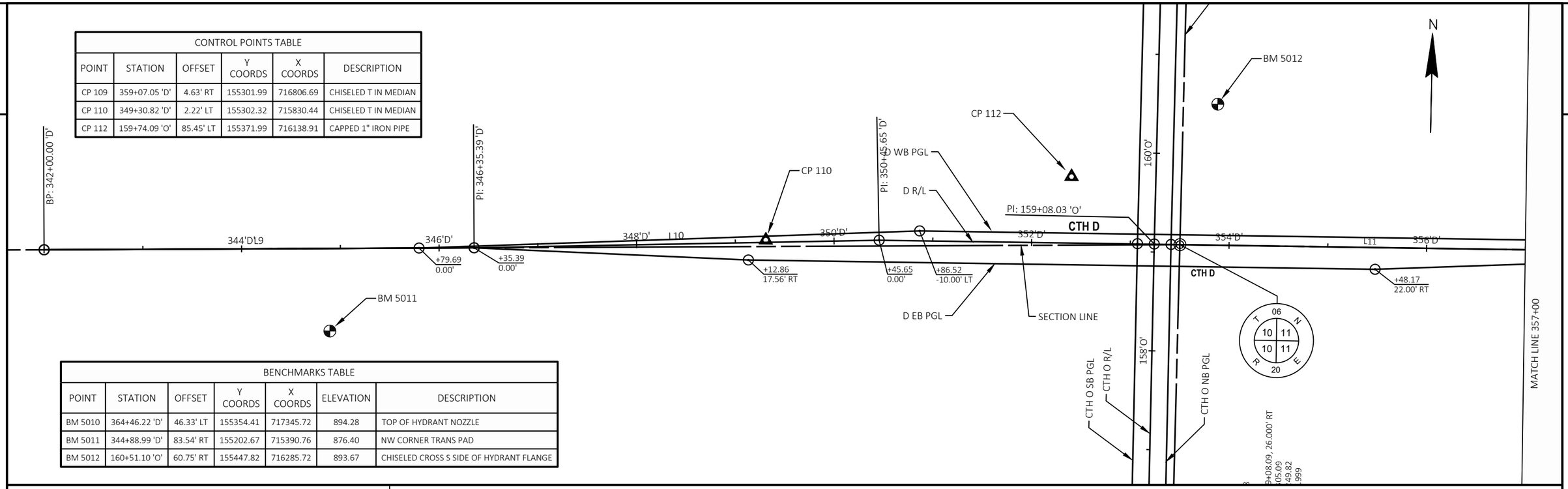
BENCHMARKS TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
BM 5000	237+56.23 'O'	131.81' LT	163143.81	716401.93	844.14	BM CHIZ CROSS HYD FLNG
BM 5001	235+93.69 'O'	138.16' RT	162974.27	716668.53	845.39	BM CHIZ CROSS HYD FLNG
BM 25251	225+32.65 'O'	64.06' LT	161923.24	716419.50	855.52	NE HYDRANT FLANGE

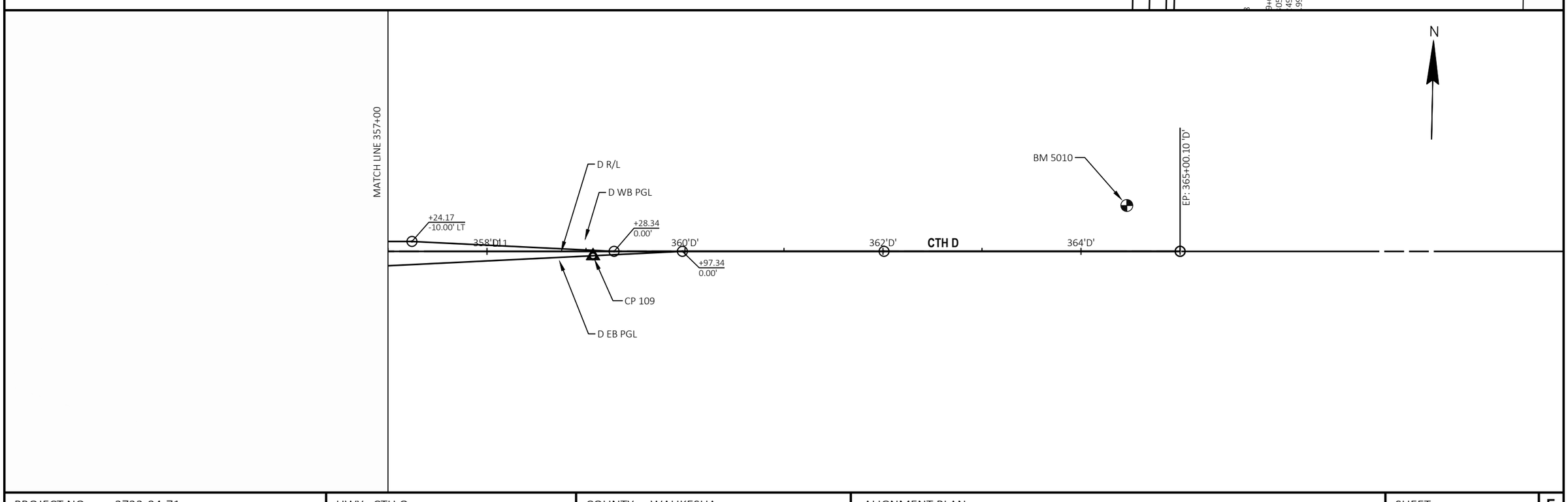


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 404	E

CONTROL POINTS TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	DESCRIPTION
CP 109	359+07.05 'D'	4.63' RT	155301.99	716806.69	CHISELED T IN MEDIAN
CP 110	349+30.82 'D'	2.22' LT	155302.32	715830.44	CHISELED T IN MEDIAN
CP 112	159+74.09 'O'	85.45' LT	155371.99	716138.91	CAPPED 1" IRON PIPE

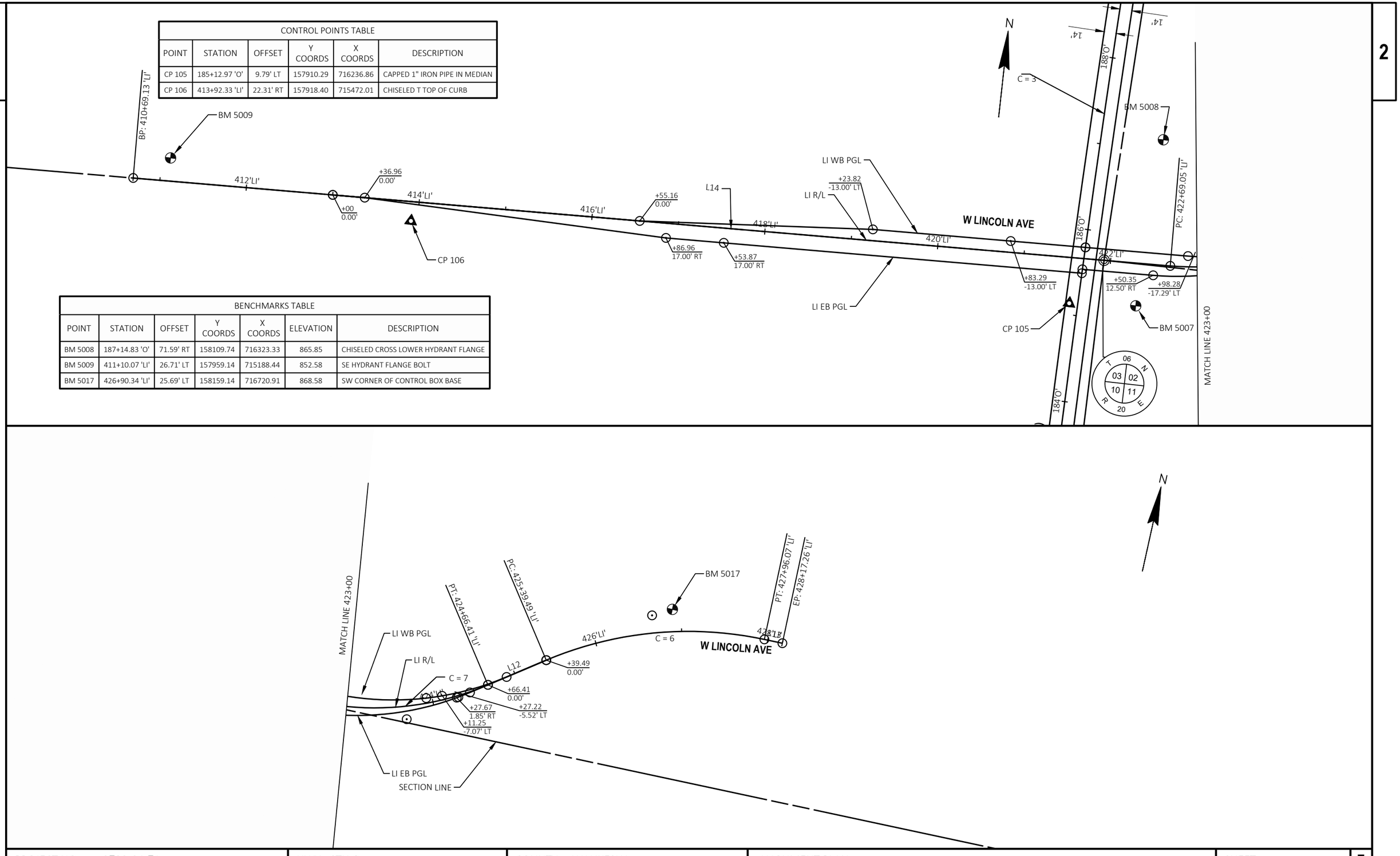
BENCHMARKS TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
BM 5010	364+46.22 'D'	46.33' LT	155354.41	717345.72	894.28	TOP OF HYDRANT NOZZLE
BM 5011	344+88.99 'D'	83.54' RT	155202.67	715390.76	876.40	NW CORNER TRANS PAD
BM 5012	160+51.10 'O'	60.75' RT	155447.82	716285.72	893.67	CHISELED CROSS S SIDE OF HYDRANT FLANGE





CONTROL POINTS TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	DESCRIPTION
CP 105	185+12.97 'O'	9.79' LT	157910.29	716236.86	CAPPED 1" IRON PIPE IN MEDIAN
CP 106	413+92.33 'LI'	22.31' RT	157918.40	715472.01	CHISELED T TOP OF CURB

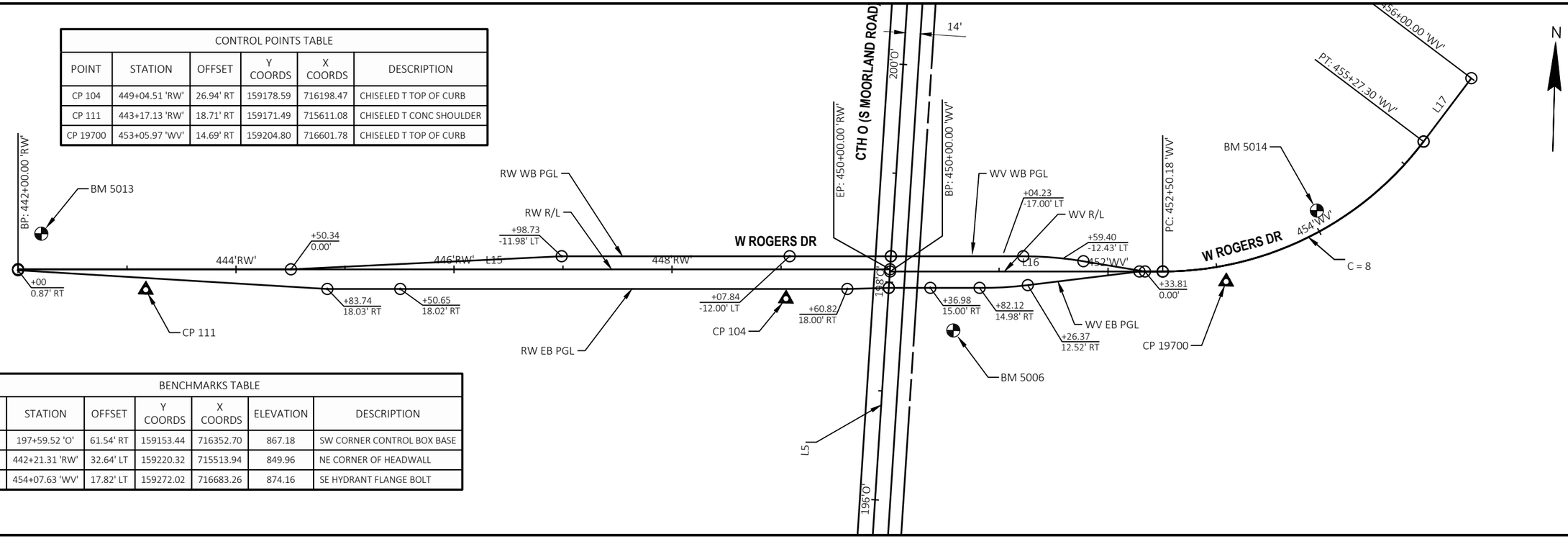
BENCHMARKS TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
BM 5008	187+14.83 'O'	71.59' RT	158109.74	716323.33	865.85	CHISELED CROSS LOWER HYDRANT FLANGE
BM 5009	411+10.07 'LI'	26.71' LT	157959.14	715188.44	852.58	SE HYDRANT FLANGE BOLT
BM 5017	426+90.34 'LI'	25.69' LT	158159.14	716720.91	868.58	SW CORNER OF CONTROL BOX BASE



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 406	E

CONTROL POINTS TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	DESCRIPTION
CP 104	449+04.51 'RW'	26.94' RT	159178.59	716198.47	CHISELED T TOP OF CURB
CP 111	443+17.13 'RW'	18.71' RT	159171.49	715611.08	CHISELED T CONC SHOULDER
CP 19700	453+05.97 'WV'	14.69' RT	159204.80	716601.78	CHISELED T TOP OF CURB

BENCHMARKS TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
BM 5006	197+59.52 'O'	61.54' RT	159153.44	716352.70	867.18	SW CORNER CONTROL BOX BASE
BM 5013	442+21.31 'RW'	32.64' LT	159220.32	715513.94	849.96	NE CORNER OF HEADWALL
BM 5014	454+07.63 'WV'	17.82' LT	159272.02	716683.26	874.16	SE HYDRANT FLANGE BOLT



CTH O R/L																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L1	130+00.00'O'	132+49.93'O'	152397.45 716236.49	152647.37 716239.10						249.93'						N0°35'54.9"E
C = 1					137+10.74	153108.15 716243.91	2°18'14"	0°15'00"	460.81'	921.49'	4.63'	22918.00'	132+49.93'O'	141+71.42'O'	N0°35'54.9"E	N1°42'18.6"W
L2	141+71.42'O'	141+80.16'O'	153568.75 716230.20	153577.48 716229.94						8.74'						N1°42'18.6"W
C = 2					145+67.49	153964.64 716218.41	1°56'11"	0°15'00"	387.32'	774.58'	3.27'	22918.00'	141+80.16'O'	149+54.74'O'	N1°42'18.6"W	N0°13'52.6"E
L3	149+54.74'O'	159+08.03'O'	154351.96 716219.98	155305.25 716223.83						953.30'						N0°13'52.6"E
L4	159+08.03'O'	182+15.96'O'	155305.25 716223.83	157613.11 716242.35						2307.93'						N0°27'35.3"E
C = 3					185+67.56	157964.69 716245.17	1°45'13"	0°14'58"	351.59'	703.13'	2.69'	22972.30'	182+15.96'O'	189+19.09'O'	N0°27'35.3"E	N2°12'48.6"E
L5	189+19.09'O'	204+55.32'O'	158316.02 716258.75	159851.10 716318.08						1536.23'						N2°12'48.6"E
C = 4					207+59.33	160154.88 716329.82	6°02'58"	0°59'45"	304.01'	607.46'	8.03'	5753.48'	204+55.32'O'	210+62.78'O'	N2°12'48.6"E	N8°15'46.3"E
L6	210+62.78'O'	212+28.57'O'	160455.74 716373.51	160619.81 716397.34						165.79'						N8°15'46.3"E
C = 5					215+13.78	160902.06 716438.33	5°43'24"	1°00'15"	285.21'	569.95'	7.12'	5705.60'	212+28.57'O'	217+98.52'O'	N8°15'46.3"E	N2°32'21.9"E
L7	217+98.52'O'	236+49.63'O'	161186.99 716450.97	163036.28 716532.98						1851.11'						N2°32'21.9"E
L8	236+49.63'O'	263+00.00'O'	163036.28 716532.98	165686.59 716551.66						2650.37'						N0°24'13.6"E

D R/L																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L9	342+00.00'D'	346+35.39'D'	155279.84 715100.00	155289.40 715535.29						435.39'						N88°44'31.7"E
L10	346+35.39'D'	350+45.65'D'	155289.40 715535.29	155304.26 715945.28						410.26'						N87°55'28.0"E
L11	350+45.65'D'	365+00.10'D'	155304.26 715945.28	155308.23 717399.72						1454.44'						N89°50'37.2"E

LI R/L																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L14	410+69.13'LI'	422+69.05'LI'	157931.24 715148.30	157966.32 716347.71						1199.92'						N88°19'30.0"E
C = 7					423+70.69	157969.29 716449.30	33°45'14"	17°06'12"	101.63'	197.35'	15.08'	335.00'	422+69.05'LI'	424+66.41'LI'	N88°19'30.0"E	N54°34'16.4"E
L12	424+66.41'LI'	425+39.49'LI'	158028.21 716532.12	158070.57 716591.67						73.08'						N54°34'16.4"E
C = 6					426+71.92	158147.34 716699.58	35°00'06"	13°38'31"	132.43'	256.58'	20.38'	420.00'	425+39.49'LI'	427+96.07'LI'	N54°34'16.4"E	N89°34'22.5"E
L13	427+96.07'LI'	428+17.26'LI'	158148.33 716832.01	158148.49 716853.20						21.20'						N89°34'22.5"E

RW R/L																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L15	442+00.00'RW'	450+00.00'RW'	159187.14 715493.50	159208.01 716293.22						800.00'						N88°30'19.4"E

WV R/L																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L16	450+00.00'WV'	452+50.18'WV'	159206.01 716293.28	159212.54 716543.37						250.18'						N88°30'08.6"E
C = 8					453+99.51	159216.45 716692.65	52°55'39"	19°05'55"	149.34'	277.13'	35.11'	300.00'	452+50.18'WV'	455+27.30'WV'	N88°30'08.6"E	N35°34'29.9"E
L17	455+27.30'WV'	456+00.00'WV'	159337.91 716779.53	159397.04 716821.83						72.70'						N35°34'29.9"E

NBT R/L																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L18	0+00.00'NBT'	0+84.49'NBT'	160637.54 716186.60	160639.84 716271.05						84.49'						N88°26'26.0"E
L19	0+84.49'NBT'	1+00.01'NBT'	160639.84 716271.05	160639.99 716286.57						15.52'						N89°24'50.0"E
C = 9					1+13.68	160640.13 716300.25	40°04'16"	152°47'19"	13.68'	26.23'	2.42'	37.50'	1+00.01'NBT'	1+26.23'NBT'	N89°24'50.0"E	N49°20'34.5"E
C = 10					1+43.19	160660.09 716323.49	48°40'23"	152°47'19"	16.96'	31.86'	3.66'	37.50'	1+26.23'NBT'	1+58.09'NBT'	N49°20'34.5"E	S81°59'02.9"E
L20	1+58.09'NBT'	2+80.81'NBT'	160657.73 716340.28	160640.62 716461.80						122.72'						S81°59'02.9"E
C = 11					2+88.43	160639.55 716469.34	9°40'39"	63°39'43"	7.62'	15.20'	0.32'	90.00'	2+80.81'NBT'	2+96.01'NBT'	S81°59'02.9"E	N88°20'18.2"E
L21	2+96.01'NBT'	3+35.03'NBT'	160639.78 716476.96	160640.91 716515.96						39.02'						N88°20'18.2"E
L22	3+35.03'NBT'	4+18.01'NBT'	160640.91 716515.96	160643.73 716598.90						82.99'						N88°03'11.5"E

Estimate Of Quantities

2722-04-71

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0004	201.0105	Clearing	STA	20.000	20.000
0006	201.0120	Clearing	ID	10.000	10.000
0008	201.0205	Grubbing	STA	20.000	20.000
0010	201.0220	Grubbing	ID	10.000	10.000
0012	203.0100	Removing Small Pipe Culverts	EACH	6.000	6.000
0014	204.0100	Removing Concrete Pavement	SY	80,974.000	80,974.000
0016	204.0115	Removing Asphaltic Surface Butt Joints	SY	23.000	23.000
0018	204.0120	Removing Asphaltic Surface Milling	SY	1,877.000	1,877.000
0020	204.0130	Removing Curb	LF	138.000	138.000
0022	204.0150	Removing Curb & Gutter	LF	9,911.000	9,911.000
0024	204.0155	Removing Concrete Sidewalk	SY	778.000	778.000
0026	204.0165	Removing Guardrail	LF	688.000	688.000
0028	204.0185	Removing Masonry	CY	1.200	1.200
0030	204.0190	Removing Surface Drains	EACH	4.000	4.000
0032	204.0195	Removing Concrete Bases	EACH	39.000	39.000
0034	204.0210	Removing Manholes	EACH	12.000	12.000
0036	204.0220	Removing Inlets	EACH	87.000	87.000
0038	204.0245	Removing Storm Sewer (size) 001. 6-Inch	LF	58.000	58.000
0040	204.0245	Removing Storm Sewer (size) 002. 12-Inch	LF	1,177.000	1,177.000
0042	204.0245	Removing Storm Sewer (size) 003. 15-Inch	LF	467.000	467.000
0044	204.0245	Removing Storm Sewer (size) 004. 18-Inch	LF	773.000	773.000
0046	204.0245	Removing Storm Sewer (size) 005. 21-Inch	LF	162.000	162.000
0048	204.0245	Removing Storm Sewer (size) 006. 24-Inch	LF	76.000	76.000
0050	204.0245	Removing Storm Sewer (size) 007. 30-Inch	LF	8.000	8.000
0052	204.9060.S	Removing (item description) 101. Traffic Signals (CTH O & CTH D)	EACH	1.000	1.000
0054	204.9060.S	Removing (item description) 102. Traffic Signals (CTH O & Lincoln Ave)	EACH	1.000	1.000
0056	204.9060.S	Removing (item description) 103. Traffic Signals (CTH O & Rogers Dr)	EACH	1.000	1.000
0058	205.0100	Excavation Common	CY	80,700.000	80,700.000
0060	213.0100	Finishing Roadway (project) 001. 2722-04-71	EACH	1.000	1.000
0062	305.0110	Base Aggregate Dense 3/4-Inch	TON	267.000	267.000
0064	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	58,499.000	58,499.000
0066	310.0110	Base Aggregate Open-Graded	TON	199.000	199.000
0068	312.0110	Select Crushed Material	TON	57,866.000	57,866.000
0070	415.0095	Concrete Pavement 9 1/2-Inch	SY	78,618.000	78,618.000
0072	415.0210	Concrete Pavement Gaps	EACH	10.000	10.000
0074	415.1095	Concrete Pavement HES 9 1/2-Inch	SY	420.000	420.000
0076	416.0610	Drilled Tie Bars	EACH	475.000	475.000
0078	416.0620	Drilled Dowel Bars	EACH	125.000	125.000
0080	450.4000	HMA Cold Weather Paving	TON	50.000	50.000
0082	455.0605	Tack Coat	GAL	2,705.000	2,705.000
0084	460.2000	Incentive Density HMA Pavement	DOL	6,250.000	6,250.000
0086	460.5224	HMA Pavement 4 LT 58-28 S	TON	117.000	117.000
0088	460.6223	HMA Pavement 3 MT 58-28 S	TON	4,708.000	4,708.000
0090	460.6424	HMA Pavement 4 MT 58-28 H	TON	2,213.000	2,213.000
0092	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	249.000	249.000
0094	465.0125	Asphaltic Surface Temporary	TON	1,838.000	1,838.000
0096	465.0315	Asphaltic Flumes	SY	52.000	52.000
0098	495.1000.S	Cold Patch	TON	50.000	50.000

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Line	Item	Item Description	Unit	Total	Qty
0100	520.8000	Concrete Collars for Pipe	EACH	47.000	47.000
0102	520.8700	Cleaning Culvert Pipes	EACH	7.000	7.000
0104	521.1217	Apron Endwalls for Pipe Arch Steel 17x13-Inch	EACH	2.000	2.000
0106	521.1505	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 4 to 1	EACH	4.000	4.000
0108	521.3124	Culvert Pipe Corrugated Steel 24-Inch	LF	164.000	164.000
0110	521.3717	Pipe Arch Corrugated Steel 17x13-Inch	LF	54.000	54.000
0112	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000
0114	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000
0116	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	3.000	3.000
0118	530.0124	Culvert Pipe Corrugated Polyethylene 24-Inch	LF	10.000	10.000
0120	601.0105	Concrete Curb Type A	LF	11.000	11.000
0122	601.0110	Concrete Curb Type D	LF	77.000	77.000
0124	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	147.000	147.000
0126	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	728.000	728.000
0128	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	30,623.000	30,623.000
0130	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	6,211.000	6,211.000
0132	602.0410	Concrete Sidewalk 5-Inch	SF	16,357.000	16,357.000
0134	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	36.000	36.000
0136	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	80.000	80.000
0138	602.0815	Concrete Driveway 7-Inch	SY	196.000	196.000
0140	602.0820	Concrete Driveway 8-Inch	SY	61.000	61.000
0142	602.0865	Concrete Driveway HES 7-Inch	SY	182.000	182.000
0144	602.2400	Concrete Safety Islands	SF	572.000	572.000
0146	602.3010	Concrete Surface Drains	CY	3.000	3.000
0148	606.0100	Riprap Light	CY	13.000	13.000
0150	606.0200	Riprap Medium	CY	56.000	56.000
0152	606.0300	Riprap Heavy	CY	19.000	19.000
0154	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	628.000	628.000
0156	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	351.000	351.000
0158	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	642.000	642.000
0160	608.0321	Storm Sewer Pipe Reinforced Concrete Class III 21-Inch	LF	40.000	40.000
0162	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	123.000	123.000
0164	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	9.000	9.000
0166	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	1,334.000	1,334.000
0168	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	685.000	685.000
0170	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	157.000	157.000
0172	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	191.000	191.000
0174	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	7.000	7.000
0176	608.0512	Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	LF	206.000	206.000
0178	611.0530	Manhole Covers Type J	EACH	17.000	17.000
0180	611.0606	Inlet Covers Type B	EACH	5.000	5.000
0182	611.0612	Inlet Covers Type C	EACH	1.000	1.000
0184	611.0624	Inlet Covers Type H	EACH	100.000	100.000
0186	611.0639	Inlet Covers Type H-S	EACH	24.000	24.000
0188	611.0642	Inlet Covers Type MS	EACH	12.000	12.000
0190	611.0651	Inlet Covers Type S	EACH	3.000	3.000
0192	611.2004	Manholes 4-FT Diameter	EACH	13.000	13.000
0194	611.2005	Manholes 5-FT Diameter	EACH	8.000	8.000
0196	611.2006	Manholes 6-FT Diameter	EACH	8.000	8.000

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Line	Item	Item Description	Unit	Total	Qty
0198	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000
0200	611.2008	Manholes 8-FT Diameter	EACH	1.000	1.000
0202	611.3003	Inlets 3-FT Diameter	EACH	1.000	1.000
0204	611.3004	Inlets 4-FT Diameter	EACH	26.000	26.000
0206	611.3220	Inlets 2x2-FT	EACH	1.000	1.000
0208	611.3230	Inlets 2x3-FT	EACH	86.000	86.000
0210	611.3901	Inlets Median 1 Grate	EACH	6.000	6.000
0212	611.3902	Inlets Median 2 Grate	EACH	3.000	3.000
0214	611.8110	Adjusting Manhole Covers	EACH	13.000	13.000
0216	611.8115	Adjusting Inlet Covers	EACH	20.000	20.000
0218	611.8120.S	Cover Plates Temporary	EACH	16.000	16.000
0220	611.9705	Salvaged Manhole Covers	EACH	3.000	3.000
0222	611.9710	Salvaged Inlet Covers	EACH	1.000	1.000
0224	612.0106	Pipe Underdrain 6-Inch	LF	3,447.000	3,447.000
0226	612.0204	Pipe Underdrain Unperforated 4-Inch	LF	1,009.000	1,009.000
0228	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	34.000	34.000
0230	612.0208	Pipe Underdrain Unperforated 8-Inch	LF	4.000	4.000
0232	612.0212	Pipe Underdrain Unperforated 12-Inch	LF	100.000	100.000
0234	612.0215	Pipe Underdrain Unperforated 15-Inch	LF	10.000	10.000
0236	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	222.000	222.000
0238	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	1.000	1.000
0240	612.0902.S	Insulation Board Polystyrene (inch) 201. 2-Inch	SY	40.000	40.000
0242	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	433.000	433.000
0244	614.2330	MGS Guardrail 3 K	LF	857.000	857.000
0246	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0248	616.0204	Fence Chain Link 4-FT	LF	224.000	224.000
0250	616.0700.S	Fence Safety	LF	58.000	58.000
0252	619.1000	Mobilization	EACH	1.000	1.000
0254	620.0300	Concrete Median Sloped Nose	SF	554.000	554.000
0256	623.0200	Dust Control Surface Treatment	SY	39,520.000	39,520.000
0258	624.0100	Water	MGAL	2,450.000	2,450.000
0260	625.0100	Topsoil	SY	52,865.000	52,865.000
0262	625.0105	Topsoil	CY	10.000	10.000
0264	627.0200	Mulching	SY	240.000	240.000
0266	628.1104	Erosion Bales	EACH	20.000	20.000
0268	628.1504	Silt Fence	LF	4,945.000	4,945.000
0270	628.1520	Silt Fence Maintenance	LF	4,945.000	4,945.000
0272	628.1905	Mobilizations Erosion Control	EACH	9.000	9.000
0274	628.1910	Mobilizations Emergency Erosion Control	EACH	9.000	9.000
0276	628.2008	Erosion Mat Urban Class I Type B	SY	13,299.000	13,299.000
0278	628.2027	Erosion Mat Class II Type C	SY	724.000	724.000
0280	628.6510	Soil Stabilizer Type B	ACRE	7.000	7.000
0282	628.7005	Inlet Protection Type A	EACH	270.000	270.000
0284	628.7010	Inlet Protection Type B	EACH	32.000	32.000
0286	628.7015	Inlet Protection Type C	EACH	7.000	7.000
0288	628.7020	Inlet Protection Type D	EACH	317.000	317.000
0290	628.7504	Temporary Ditch Checks	LF	365.000	365.000
0292	628.7555	Culvert Pipe Checks	EACH	12.000	12.000
0294	628.7560	Tracking Pads	EACH	6.000	6.000

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Line	Item	Item Description	Unit	Total	Qty
0296	628.7570	Rock Bags	EACH	200.000	200.000
0298	629.0210	Fertilizer Type B	CWT	56.000	56.000
0300	630.0130	Seeding Mixture No. 30	LB	281.000	281.000
0302	630.0140	Seeding Mixture No. 40	LB	7.000	7.000
0304	630.0200	Seeding Temporary	LB	480.000	480.000
0306	630.0300	Seeding Borrow Pit	LB	49.000	49.000
0308	630.0400	Seeding Nurse Crop	LB	65.000	65.000
0310	630.0500	Seed Water	MGAL	314.000	314.000
0312	631.0300	Sod Water	MGAL	435.000	435.000
0314	631.1000	Sod Lawn	SY	38,601.000	38,601.000
0316	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	3.000	3.000
0318	633.5200	Markers Culvert End	EACH	20.000	20.000
0320	634.0616	Posts Wood 4x6-Inch x 16-FT	EACH	4.000	4.000
0322	637.2210	Signs Type II Reflective H	SF	2,267.790	2,267.790
0324	637.2215	Signs Type II Reflective H Folding	SF	224.040	224.040
0326	637.2230	Signs Type II Reflective F	SF	457.030	457.030
0328	638.2102	Moving Signs Type II	EACH	10.000	10.000
0330	638.2602	Removing Signs Type II	EACH	267.000	267.000
0332	638.3000	Removing Small Sign Supports	EACH	161.000	161.000
0334	642.5401	Field Office Type D	EACH	1.000	1.000
0336	643.0300	Traffic Control Drums	DAY	209,795.000	209,795.000
0338	643.0420	Traffic Control Barricades Type III	DAY	35,510.000	35,510.000
0340	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	587.000	587.000
0342	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	587.000	587.000
0344	643.0705	Traffic Control Warning Lights Type A	DAY	71,019.000	71,019.000
0346	643.0715	Traffic Control Warning Lights Type C	DAY	18,868.000	18,868.000
0348	643.0810	Traffic Control Connected Arrow Boards	DAY	808.000	808.000
0350	643.0900	Traffic Control Signs	DAY	49,631.000	49,631.000
0352	643.0920	Traffic Control Covering Signs Type II	EACH	4.000	4.000
0354	643.1000	Traffic Control Signs Fixed Message	SF	39.000	39.000
0356	643.1050	Traffic Control Signs PCMS	DAY	213.000	213.000
0358	643.1220	Traffic Control Connected Work Zone Start and End Location Markers	DAY	942.000	942.000
0360	643.3105	Temporary Marking Line Paint 4-Inch	LF	30,677.000	30,677.000
0362	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	33,800.000	33,800.000
0364	643.3205	Temporary Marking Line Paint 8-Inch	LF	2,790.000	2,790.000
0366	643.3250	Temporary Marking Line Removable Tape 8-Inch	LF	4,951.000	4,951.000
0368	643.3805	Temporary Marking Stop Line Paint 18-Inch	LF	542.000	542.000
0370	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	782.000	782.000
0372	643.5000	Traffic Control	EACH	1.000	1.000
0374	644.1410	Temporary Pedestrian Surface Asphalt	SF	1,297.000	1,297.000
0376	644.1605	Temporary Pedestrian Detectable Warning Field	SF	207.000	207.000
0378	644.1810	Temporary Pedestrian Barricade	LF	949.000	949.000
0380	645.0111	Geotextile Type DF Schedule A	SY	1,825.000	1,825.000
0382	645.0120	Geotextile Type HR	SY	42.000	42.000
0384	645.0130	Geotextile Type R	SY	27.000	27.000
0386	645.0220	Geogrid Type SR	SY	9,924.000	9,924.000
0388	646.1020	Marking Line Epoxy 4-Inch	LF	44,187.000	44,187.000
0390	646.3020	Marking Line Epoxy 8-Inch	LF	12,412.000	12,412.000
0392	646.5020	Marking Arrow Epoxy	EACH	89.000	89.000

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Line	Item	Item Description	Unit	Total	Qty
0394	646.5120	Marking Word Epoxy	EACH	32.000	32.000
0396	646.5320	Marking Railroad Crossing Epoxy	EACH	4.000	4.000
0398	646.6120	Marking Stop Line Epoxy 18-Inch	LF	792.000	792.000
0400	646.6464	Cold Weather Marking Epoxy 4-Inch	LF	22,103.000	22,103.000
0402	646.6468	Cold Weather Marking Epoxy 8-Inch	LF	6,211.000	6,211.000
0404	646.7120	Marking Diagonal Epoxy 12-Inch	LF	3,086.000	3,086.000
0406	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	357.000	357.000
0408	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	180.000	180.000
0410	646.8120	Marking Curb Epoxy	LF	864.000	864.000
0412	646.8220	Marking Island Nose Epoxy	EACH	31.000	31.000
0414	646.9000	Marking Removal Line 4-Inch	LF	5,870.000	5,870.000
0416	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	2,156.000	2,156.000
0418	646.9100	Marking Removal Line 8-Inch	LF	1,728.000	1,728.000
0420	646.9200	Marking Removal Line Wide	LF	1,265.000	1,265.000
0422	646.9210	Marking Removal Line Water Blasting Wide	LF	20.000	20.000
0424	650.4000	Construction Staking Storm Sewer	EACH	159.000	159.000
0426	650.5000	Construction Staking Base	LF	3,297.000	3,297.000
0428	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	7,045.000	7,045.000
0430	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0432	650.6501	Construction Staking Structure Layout (structure) 401. R-67-173	EACH	1.000	1.000
0434	650.7000	Construction Staking Concrete Pavement	LF	17,476.000	17,476.000
0436	650.8501	Construction Staking Electrical Installations (project) 001. 2722-04-71	EACH	1.000	1.000
0438	650.9000	Construction Staking Curb Ramps	EACH	7.000	7.000
0440	650.9500	Construction Staking Sidewalk (project) 001. 2722-04-71	EACH	1.000	1.000
0442	650.9911	Construction Staking Supplemental Control (project) 001. 2722-04-71	EACH	1.000	1.000
0444	650.9920	Construction Staking Slope Stakes	LF	20,402.000	20,402.000
0446	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	870.000	870.000
0448	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	13,281.000	13,281.000
0450	652.0615	Conduit Special 3-Inch	LF	330.000	330.000
0452	653.0140	Pull Boxes Steel 24x42-Inch	EACH	68.000	68.000
0454	653.0905	Removing Pull Boxes	EACH	36.000	36.000
0456	654.0101	Concrete Bases Type 1	EACH	9.000	9.000
0458	654.0102	Concrete Bases Type 2	EACH	12.000	12.000
0460	654.0105	Concrete Bases Type 5	EACH	4.000	4.000
0462	654.0110	Concrete Bases Type 10	EACH	2.000	2.000
0464	654.0113	Concrete Bases Type 13	EACH	9.000	9.000
0466	654.0120	Concrete Bases Type 10-Special	EACH	5.000	5.000
0468	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	4.000	4.000
0470	655.0210	Cable Traffic Signal 3-14 AWG	LF	1,130.000	1,130.000
0472	655.0230	Cable Traffic Signal 5-14 AWG	LF	2,673.000	2,673.000
0474	655.0240	Cable Traffic Signal 7-14 AWG	LF	1,862.000	1,862.000
0476	655.0260	Cable Traffic Signal 12-14 AWG	LF	7,190.000	7,190.000
0478	655.0270	Cable Traffic Signal 15-14 AWG	LF	660.000	660.000
0480	655.0290	Cable Traffic Signal 21-14 AWG	LF	235.000	235.000
0482	655.0305	Cable Type UF 2-12 AWG Grounded	LF	730.000	730.000
0484	655.0320	Cable Type UF 2-10 AWG Grounded	LF	4,670.000	4,670.000
0486	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	7,499.000	7,499.000
0488	655.0610	Electrical Wire Lighting 12 AWG	LF	4,834.000	4,834.000
0490	655.0900	Traffic Signal EVP Detector Cable	LF	4,593.000	4,593.000

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Line	Item	Item Description	Unit	Total	Qty
0492	656.0201	Electrical Service Meter Breaker Pedestal (location) 101. CTH O & CTH D	EACH	1.000	1.000
0494	656.0201	Electrical Service Meter Breaker Pedestal (location) 102. CTH O & Lincoln Ave	EACH	1.000	1.000
0496	656.0201	Electrical Service Meter Breaker Pedestal (location) 103. CTH O & Rogers Dr	EACH	1.000	1.000
0498	656.0201	Electrical Service Meter Breaker Pedestal (location) 501. CTH O & Ridge Rd	EACH	1.000	1.000
0500	657.0100	Pedestal Bases	EACH	9.000	9.000
0502	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	16.000	16.000
0504	657.0310	Poles Type 3	EACH	12.000	12.000
0506	657.0322	Poles Type 5-Aluminum	EACH	4.000	4.000
0508	657.0350	Poles Type 10	EACH	2.000	2.000
0510	657.0352	Poles Type 10-Special	EACH	5.000	5.000
0512	657.0360	Poles Type 13	EACH	9.000	9.000
0514	657.0405	Traffic Signal Standards Aluminum 3.5-FT	EACH	1.000	1.000
0516	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	4.000	4.000
0518	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	2.000	2.000
0520	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	2.000	2.000
0522	657.0525	Monotube Arms 25-FT	EACH	2.000	2.000
0524	657.0536	Monotube Arms 35-FT-Special	EACH	1.000	1.000
0526	657.0540	Monotube Arms 40-FT	EACH	2.000	2.000
0528	657.0545	Monotube Arms 45-FT	EACH	2.000	2.000
0530	657.0550	Monotube Arms 50-FT	EACH	1.000	1.000
0532	657.0555	Monotube Arms 55-FT	EACH	8.000	8.000
0534	657.0614	Luminaire Arms Single Member 4-Inch Clamp 8-FT	EACH	12.000	12.000
0536	657.0615	Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	EACH	4.000	4.000
0538	657.0810	Luminaire Arms Steel 10-FT	EACH	12.000	12.000
0540	657.0815	Luminaire Arms Steel 15-FT	EACH	6.000	6.000
0542	658.0173	Traffic Signal Face 3S 12-Inch	EACH	61.000	61.000
0544	658.0174	Traffic Signal Face 4S 12-Inch	EACH	19.000	19.000
0546	658.0175	Traffic Signal Face 5S 12-Inch	EACH	6.000	6.000
0548	658.0416	Pedestrian Signal Face 16-Inch	EACH	4.000	4.000
0550	658.5070	Signal Mounting Hardware (location) 101. CTH O & CTH D	EACH	1.000	1.000
0552	658.5070	Signal Mounting Hardware (location) 102. CTH O & Lincoln Ave	EACH	1.000	1.000
0554	658.5070	Signal Mounting Hardware (location) 103. CTH O & Rogers Dr	EACH	1.000	1.000
0556	658.5070	Signal Mounting Hardware (location) 501. CTH O & Ridge Rd	EACH	1.000	1.000
0558	659.1125	Luminaires Utility LED C	EACH	34.000	34.000
0560	659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH	56.000	56.000
0562	661.0201	Temporary Traffic Signals for Intersections (location) 101. CTH O & CTH D	EACH	1.000	1.000
0564	661.0201	Temporary Traffic Signals for Intersections (location) 102. CTH O & Lincoln Ave	EACH	1.000	1.000
0566	661.0201	Temporary Traffic Signals for Intersections (location) 103. CTH O & Rogers Dr	EACH	1.000	1.000
0568	670.0101	Field System Integrator	EACH	1.000	1.000
0570	670.0201	ITS Documentation	EACH	1.000	1.000
0572	673.0105	Communication Vault Type 1	EACH	6.000	6.000
0574	674.0300	Remove Cable	LF	1,078.000	1,078.000
0576	674.0400	Reinstall Cable	LF	1,066.000	1,066.000
0578	678.0300	Fiber Optic Splice	EACH	96.000	96.000
0580	678.0501	Communication System Testing	EACH	1.000	1.000
0582	690.0150	Sawing Asphalt	LF	2,100.000	2,100.000
0584	690.0250	Sawing Concrete	LF	6,428.000	6,428.000
0586	715.0715	Incentive Flexural Strength Concrete Pavement	DOL	23,720.000	23,720.000
0588	740.0440	Incentive IRI Ride	DOL	18,060.000	18,060.000

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Line	Item	Item Description	Unit	Total	Qty
0590	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	4,900.000	4,900.000
0592	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	8,640.000	8,640.000
0594	SPV.0035	Special 001. Engineered Soil	CY	98.000	98.000
0596	SPV.0060	Special 001. Drain Tile Sump Connection	EACH	10.000	10.000
0598	SPV.0060	Special 002. Posts Tubular Steel 1.75x1.75-Inch x 11-FT	EACH	119.000	119.000
0600	SPV.0060	Special 003. Posts Tubular Steel 1.75x1.75-Inch x 12-FT	EACH	114.000	114.000
0602	SPV.0060	Special 004. Posts Tubular Steel 1.75x1.75-Inch x 14-FT	EACH	88.000	88.000
0604	SPV.0060	Special 005. Posts Tubular Steel 1.75x1.75-Inch x 16-FT	EACH	2.000	2.000
0606	SPV.0060	Special 006. Utility Line Opening (ULO)	EACH	42.000	42.000
0608	SPV.0060	Special 007. Section Corner Monuments	EACH	3.000	3.000
0610	SPV.0060	Special 008. Construction Staking Bioswales	EACH	1.000	1.000
0612	SPV.0060	Special 101. Reinstall Temporary EVP Equipment CTH O & CTH D	EACH	1.000	1.000
0614	SPV.0060	Special 102. Reinstall Temporary EVP Equipment CTH O & Lincoln Ave	EACH	1.000	1.000
0616	SPV.0060	Special 103. Reinstall Temporary EVP Equipment CTH O & Rogers Dr	EACH	1.000	1.000
0618	SPV.0060	Special 104. Furnish and Install Video Detection System CTH O & CTH D	EACH	1.000	1.000
0620	SPV.0060	Special 105. Furnish and Install Video Detection System CTH O & Lincoln Ave	EACH	1.000	1.000
0622	SPV.0060	Special 106. Furnish and Install Video Detection System CTH O & Rogers Dr	EACH	1.000	1.000
0624	SPV.0060	Special 107. Traffic Signal Controller and Cabinet, CTH O & CTH D	EACH	1.000	1.000
0626	SPV.0060	Special 108. Traffic Signal Controller and Cabinet, CTH O & Lincoln Ave	EACH	1.000	1.000
0628	SPV.0060	Special 109. Traffic Signal Controller and Cabinet, CTH O & Rogers Dr	EACH	1.000	1.000
0630	SPV.0060	Special 110. Temporary Vehicle Detection System CTH O & CTH D	EACH	1.000	1.000
0632	SPV.0060	Special 111. Temporary Vehicle Detection System CTH O & Lincoln Ave	EACH	1.000	1.000
0634	SPV.0060	Special 112. Temporary Vehicle Detection System CTH O & Rogers Dr	EACH	1.000	1.000
0636	SPV.0060	Special 113. Remove & Reinstall EVP Equipment CTH O & CTH D	EACH	1.000	1.000
0638	SPV.0060	Special 114. Remove & Reinstall EVP Equipment CTH O & Lincoln Ave	EACH	1.000	1.000
0640	SPV.0060	Special 115. Remove & Reinstall EVP Equipment CTH O & Rogers Dr	EACH	1.000	1.000
0642	SPV.0060	Special 116. Pre-Terminated Patch Panel With 6-Ports	EACH	4.000	4.000
0644	SPV.0060	Special 117. IP Ethernet Switch With Single Mode Fiber Ports	EACH	4.000	4.000
0646	SPV.0060	Special 118. Site Mowing	EACH	1.000	1.000
0648	SPV.0060	Special 119. Furnish and Install Fiber Optic Splice Enclosure	EACH	6.000	6.000
0650	SPV.0060	Special 120. Connect to Existing Storm Sewer	EACH	7.000	7.000
0652	SPV.0060	Special 121. Temporary Pipe Connection, 12-Inch	EACH	7.000	7.000
0654	SPV.0060	Special 122. Temporary Pipe Connection, 15-Inch	EACH	1.000	1.000
0656	SPV.0060	Special 123. Temporary Pipe Connection, 24-Inch	EACH	1.000	1.000
0658	SPV.0060	Special 124. Reconstructing Manholes Special	EACH	1.000	1.000
0660	SPV.0060	Special 201. Adjusting Water Valve Boxes	EACH	22.000	22.000
0662	SPV.0060	Special 202. Adjusting Sanitary Manholes	EACH	17.000	17.000
0664	SPV.0060	Special 203. Permanent Connection to Existing 16-Inch Water Main	EACH	2.000	2.000
0666	SPV.0060	Special 501. Furnish & Install Video Detection System CTH O & Ridge Rd	EACH	1.000	1.000
0668	SPV.0060	Special 502. Traffic Signal Controller and Cabinet CTH O & Ridge Rd	EACH	1.000	1.000
0670	SPV.0060	Special 503. Furnish & Install EVP System with Confirmation Lights CTH O & Ridge Rd	EACH	1.000	1.000
0672	SPV.0060	Special 504. Furnish & Install Accessible Pedestrian Signal System CTH O & Ridge Rd	EACH	1.000	1.000
0674	SPV.0085	Special 001. Native Pollinator Seeding Mixture No. 95A	LB	1.000	1.000
0676	SPV.0085	Special 101. Native Seeding Mixture No. 75 Updated	LB	20.000	20.000
0678	SPV.0090	Special 001. Concrete Curb & Gutter 24-Inch Type D	LF	71.000	71.000
0680	SPV.0090	Special 002. Construction Staking Fence	LF	282.000	282.000
0682	SPV.0090	Special 006. Concrete Curb & Gutter HES 30-Inch Type A	LF	132.000	132.000
0684	SPV.0090	Special 007. Concrete Curb & Gutter HES 30-Inch Type D	LF	29.000	29.000
0686	SPV.0090	Special 101. Furnish and Install Fiber Optic Cable Outdoor Plant 48-CT	LF	8,755.000	8,755.000

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Line	Item	Item Description	Unit	Total	Qty
0688	SPV.0090	Special 201. Removing Water Main	LF	48.000	48.000
0690	SPV.0090	Special 202. AWWA C900 DR-18 PVC Water main 16-Inch	LF	58.000	58.000
0692	SPV.0165	Special 001. Seedbed Preparation	SF	1,755.000	1,755.000
0694	SPV.0165	Special 002. Seeding Bioswale	SF	1,755.000	1,755.000
0696	SPV.0165	Special 401. Wall Modular Block Mechanically Stabilized Earth R-67-173	SF	1,040.000	1,040.000
0698	SPV.0180	Special 001. Mulching Bioswale	SY	195.000	195.000
0700	SPV.0180	Special 005. Excavation of Phragmites Contaminated Soil	SY	195.000	195.000

CLEARING AND GRUBBING

CATEGORY	ROAD	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
0010	CTH D						
		346+00	-	352+00	RT	6	6
		346+00	-	348+00	LT	2	2
		354+00	-	357+00	LT	3	3
		356+00	-	360+00	RT	4	4
					TOTAL 0010	15	15
0030	W LINCOLN AVE						
		419+00	-	421+00	LT	2	2
		423+00	-	425+00	LT	2	2
	W ROGERS DR						
		447+00	-	448+00	RT	1	1
					TOTAL 0030	5	5
					PROJECT TOTAL	**20**	**20**

CLEARING AND GRUBBING

CATEGORY	ROAD	STATION	LOCATION	201.0120 CLEARING ID	201.0220 GRUBBING ID
0010	W ROGERS DR				
		445+95	56' RT	10	10
			TOTAL 0030	10	10
			PROJECT TOTAL	**10**	**10**

3

3

REMOVING SMALL PIPE CULVERTS

CATEGORY	ROAD	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	SIZE/LENGTH*
0010	CTH D (STAGE 2)				
		359+37	43' LT	1	18" CMP / 26 LF
		359+74	41' RT	1	15" CMP / 25 LF
		360+20	39' RT	1	18" CMP / 36 LF
			TOTAL 0010	3	
0030	W ROGERS DR (STAGE 1)				
		444+04	29' RT	1	30" CMP / 40 LF
		445+23	30' LT	1	18" CMP / 47 LF
		446+42	30' RT	1	30" CMP / 47 LF
			TOTAL 0030	3	
			PROJECT TOTAL	**6**	

*FOR INFORMATION ONLY

REMOVING ASPHALTIC ITEMS

CATEGORY	ROAD	STATION	TO	STATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
0010	CTH O (STAGE 1)					
		208+50	-	214+50	---	84
	STAGE 1 SUBTOTAL					
					---	84
	CTH O (STAGE 2)					
		208+50	-	214+50	---	56
	CTH D (STAGE 2)					
		359+50	-	365+00	11	495
	STAGE 2 SUBTOTAL					
					11	551
				TOTAL 0010	11	635
0030	W LINCOLN AVE (STAGE 1)					
		415+00	-	420+72	5	630
	W ROGERS DR (STAGE 1)					
		422+00	-	449+03	4	414
	STAGE 1 SUBTOTAL					
					9	1,044
	W LINCOLN AVE (STAGE 2)					
		422+62	-	426+00	3	198
	STAGE 2 SUBTOTAL					
					3	198
				TOTAL 0030	12	1,242
				PROJECT TOTAL	**23**	**1,877**

REMOVING CONCRETE ITEMS

CATEGORY	ROAD	STATION	TO	STATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	204.0190 REMOVING SURFACE DRAINS EACH
0010	CTH O (PRESTAGE)								
		149+00	-	155+00	20	---	646	61	---
		155+00	-	161+00	234	---	160	40	---
		184+50	-	190+50	---	---	549	---	---
		196+50	-	202+50	---	---	211	---	---
		202+50	-	208+50	---	---	506	---	---
		208+50	-	214+50	---	---	1,114	29	---
		214+50	-	220+50	---	---	1,059	---	---
		220+50	-	226+50	---	---	954	---	---
		226+50	-	232+50	---	---	1,112	---	---
	PRESTAGE SUBTOTAL				254	0	6,311	130	0
	CTH O (STAGE 1)								
		149+00	-	155+00	1,473	---	---	90	---
		155+00	-	161+00	2,592	---	149	202	---
		161+00	-	167+00	3,703	---	37	29	---
		167+00	-	173+00	3,071	101	---	---	---
		173+00	-	179+00	3,075	---	---	---	---
		179+00	-	184+50	2,818	---	---	---	---
		184+50	-	190+50	3,327	---	26	---	---
		190+50	-	196+50	2,814	---	---	---	---
		196+50	-	202+50	3,140	---	42	---	---
		202+50	-	208+50	3,014	---	---	---	---
		208+50	-	214+50	3,338	---	---	---	---
		214+50	-	220+50	3,692	---	---	---	---
		220+50	-	226+50	3,776	---	77	---	---
		226+50	-	232+50	2,267	---	---	---	---
	CTH D (STAGE 1)								
		342+00	-	347+75	46	---	---	---	---
		347+75	-	352+20	468	---	374	---	---
	STAGE 1 SUBTOTAL				42,614	101	705	321	0

REMOVING CONCRETE ITEMS (CONTINUED)

CATEGORY	ROAD	STATION	TO	STATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	204.0190 REMOVING SURFACE DRAINS EACH
0010	CTH O (STAGE 2)								
		149+00	-	155+00	1,966	---	---	17	---
		155+00	-	161+00	3,543	---	138	79	---
		161+00	-	167+00	3,134	---	---	231	---
		167+00	-	173+00	3,103	---	---	---	---
		173+00	-	179+00	2,984	---	---	---	---
		179+00	-	184+50	2,864	---	22	---	---
		184+50	-	190+50	2,888	---	174	---	---
		190+50	-	196+50	3,246	---	30	---	---
		196+50	-	202+50	3,008	---	160	---	---
		202+50	-	208+50	2,493	---	---	---	---
		208+50	-	214+50	1,590	---	---	---	---
		214+50	-	220+50	2,201	---	---	---	---
		220+50	-	226+50	2,422	---	---	---	---
		226+50	-	232+50	1,036	---	---	---	---
	CTH D (STAGE 2)								
		354+28	-	359+50	522	37	710	---	---
		359+50	-	365+00	28	---	---	---	---
	STAGE 2 SUBTOTAL				37,028	37	1,234	327	0
	CTH O (STAGE 3)								
		161+00	-	167+00	147	---	---	---	---
		202+50	-	208+50	528	---	51	---	---
	STAGE 3 SUBTOTAL				675	0	51	0	0
				TOTAL 0010	80,571	138	8,301	778	0

REMOVING CONCRETE ITEMS (CONTINUED)

CATEGORY	ROAD	STATION	TO	STATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	204.0190 REMOVING SURFACE DRAINS EACH
0030	W LINCOLN AVE (STAGE 1)								
		415+00	-	420+72	120	---	857	---	3
	W ROGERS DR (STAGE 1)								
		422+00	-	449+03	283	---	10	---	1
	STAGE 1 SUBTOTAL				403	0	867	0	4
	W LINCOLN AVE (STAGE 2)								
		422+62	-	426+00	---	---	465	---	---
	WOODVIEW DR (STAGE 2)								
		450+94	-	453+00	---	---	278	---	---
	STAGE 2 SUBTOTAL				0	0	743	0	0
				TOTAL 0030	403	0	1,610	0	4
				PROJECT TOTAL	**80,974**	**138**	**9,911**	**778**	**4**

REMOVING GUARDRAIL

CATEGORY	ROAD	STATION	TO	STATION	204.0165 REMOVING GUARDRAIL LF
0010	CTH D (STAGE 1)				
		324+00	-	347+75	396
		347+75	-	352+20	292
				TOTAL 0010	688
				PROJECT TOTAL	**688**

REMOVING MASONRY

CATEGORY	ROAD	STATION	LOCATION	204.0185 REMOVING MASONRY CY	NOTES
0030	W ROGERS DR (STAGE 1)				
		443+86	29' RT	0.2	CONCRETE ENDWALL
		444+23	29' RT	0.2	CONCRETE ENDWALL
		445+01	31' LT	0.2	CONCRETE ENDWALL
		445+46	29' LT	0.2	CONCRETE ENDWALL
		446+19	31' RT	0.2	CONCRETE ENDWALL
		446+65	31' RT	0.2	
			TOTAL 0030	1.2	
			PROJECT TOTAL	**1.2**	

REMOVING STORM SEWER STRUCTURES

CATEGORY	ROAD	STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
0010	CTH O (STAGE 1)				
		152+07	LT	---	1
		154+59	LT	---	2
		159+83	LT	---	1
		160+07	RT	---	1
		160+72	LT	---	1
		165+57	LT	1	1
		167+56	LT	---	1
		170+13	LT	---	2
		175+54	LT	1	---
		175+55	RT	---	1
		175+56	LT	---	1
		181+32	LT	---	3
		182+56	LT	---	1
		183+40	LT	1	---
		183+56	LT	---	2
		184+54	LT	1	---
		184+54	RT	---	1
		186+55	RT	---	1
		187+13	LT	---	1
		187+57	LT	---	3
		189+08	LT	---	1
		192+88	LT	---	2
		194+98	LT	1	---
		195+06	LT	---	1
		198+47	LT	---	1
		198+50	LT	1	---
		201+58	LT	---	1
		206+07	RT	---	1
		206+22	RT	---	1
		209+09	RT	---	1
		220+30	LT	---	2
		220+31	RT	---	1
		222+53	RT	---	1
		225+22	LT	---	1
		228+06	LT	---	1

REMOVING STORM SEWER STRUCTURES (CONTINUED)

CATEGORY	ROAD	STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
0010	CTH O (STAGE 1)				
		231+06	RT	---	1
	CTH D (STAGE 1)				
		349+04	LT	---	1
	STAGE 1 SUBTOTAL				
				6	**41**
	CTH O (STAGE 2)				
		152+04	LT	---	1
		152+05	RT	---	1
		152+09	RT	---	1
		152+65	RT	---	1
		153+43	RT	---	1
		154+60	LT	---	1
		154+81	RT	---	1
		158+73	RT	---	1
		159+44	RT	---	1
		159+61	RT	---	2
		159+87	RT	---	1
		163+30	RT	---	1
		163+53	RT	---	1
		165+66	RT	---	1
		167+54	RT	---	1
		167+87	RT	---	1
		170+14	RT	---	1
		170+27	RT	---	1
		175+53	RT	---	1
		180+55	RT	---	1
		180+76	RT	---	1
		184+52	RT	---	1
		189+08	RT	---	1
		191+57	RT	---	1
		195+08	RT	---	1
		197+08	RT	---	2
		197+94	RT	---	1
		198+70	LT	---	1
		198+76	LT	1	---
		198+82	RT	---	2

REMOVING STORM SEWER STRUCTURES (CONTINUED)

CATEGORY	ROAD	STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
0010	CTH O (STAGE 2)				
		205+72	LT	---	1
		205+73	RT	---	1
		205+82	LT	1	---
		208+07	LT	---	1
		209+16	LT	---	1
		211+35	LT	---	1
		211+41	RT	---	1
		214+02	RT	---	1
		216+25	LT	---	1
		216+29	RT	---	1
		216+42	LT	1	---
		220+32	LT	2	---
		220+33	RT	---	1
		222+58	LT	---	1
		225+21	LT	---	1
		225+37	LT	1	---
		228+06	LT	---	1
	STAGE 2 SUBTOTAL				
				6	**45**
			TOTAL 0010	12	86
0030	W LINCOLN AVE (STAGE 1)				
		417+22	RT	---	1
	STAGE 1 SUBTOTAL				
				0	**1**
			TOTAL 0030	0	1
			PROJECT TOTAL	**12**	**87**

REMOVING STORM SEWER

CATEGORY	ROAD	STATION TO STATION	LOCATION	204.0245.001 REMOVING STORM SEWER 6-INCH LF	204.0245.002 REMOVING STORM SEWER 12-INCH LF	204.0245.003 REMOVING STORM SEWER 15-INCH LF	204.0245.004 REMOVING STORM SEWER 18-INCH LF	204.0245.005 REMOVING STORM SEWER 21-INCH LF	204.0245.006 REMOVING STORM SEWER 24-INCH LF	204.0245.007 REMOVING STORM SEWER 30-INCH LF
0010	CTH O (STAGE 1)									
		152+07 - 152+07	LT	---	6	---	---	---	---	---
		154+58 - 154+59	LT	---	14	---	---	---	---	---
		159+44 - 159+46	LT	---	---	---	---	---	56	---
		159+46 - 159+60	LT	---	---	---	---	42	---	---
		159+46 - 160+73	LT	---	---	128	---	---	---	---
		165+57 - 165+60	LT	---	53	---	---	---	---	---
		167+54 - 167+54	RT	---	2	---	---	---	---	---
		167+54 - 167+56	LT	---	12	---	---	---	---	---
		170+12 - 170+13	LT	---	---	---	---	---	14	---
		175+54 - 175+54	LT	---	5	---	8	---	---	---
		175+54 - 175+54	RT	---	4	---	---	---	---	---
		180+32 - 180+32	LT	---	47	---	---	---	---	---
		183+41 - 183+56	LT	---	58	---	---	---	---	---
		184+54 - 184+54	RT	---	5	---	---	---	---	---
		184+54 - 184+54	LT	---	5	---	---	---	---	---
		186+52 - 186+52	LT	---	3	---	---	---	---	---
		186+52 - 186+53	RT	---	4	---	---	---	---	---
		187+56 - 187+57	LT	---	45	---	---	---	---	---
		187+57 - 189+07	LT	---	---	---	150	---	---	---
		189+07 - 189+07	LT	---	5	---	---	---	---	---
		192+89 - 192+89	LT	---	---	---	---	9	---	---
		194+98 - 195+06	LT	---	11	---	---	---	---	---
		198+35 - 198+50	LT	---	47	---	---	---	---	---
		201+49 - 201+51	RT	---	4	---	---	---	---	---
		201+51 - 201+57	LT	---	17	---	---	---	---	---
		206+06 - 206+23	RT	---	40	---	---	---	---	---
		209+09 - 209+12	RT	---	26	---	---	---	---	---
		211+38 - 211+40	LT	---	---	---	40	---	---	---
		220+25 - 220+32	RT	---	---	42	---	---	---	---
		220+31 - 220+31	LT	---	---	---	---	---	---	8
		222+54 - 222+56	RT	---	---	26	---	---	---	---
		225+21 - 225+22	LT	---	26	---	---	---	---	---
		228+06 - 228+06	LT	---	26	---	---	---	---	---
STAGE 1 SUBTOTAL				0	465	196	198	51	70	8

REMOVING STORM SEWER (CONTINUED)

CATEGORY	ROAD	STATION		STATION	LOCATION	204.0245.001 REMOVING STORM SEWER 6-INCH LF	204.0245.002 REMOVING STORM SEWER 12-INCH LF	204.0245.003 REMOVING STORM SEWER 15-INCH LF	204.0245.004 REMOVING STORM SEWER 18-INCH LF	204.0245.005 REMOVING STORM SEWER 21-INCH LF	204.0245.006 REMOVING STORM SEWER 24-INCH LF	204.0245.007 REMOVING STORM SEWER 30-INCH LF
0010	CTH O (STAGE 2)											
		151+67	-	152+09	RT	---	44	---	---	---	---	---
		152+02		152+04	LT	---	---	---	13	---	---	---
		152+04		153+44	RT	---	---	---	146	---	---	---
		154+59	-	154+59	RT	---	3	---	---	---	---	---
		154+59	-	154+59	LT	---	7	---	---	---	---	---
		154+79	-	154+80	RT	---	4	---	---	---	---	---
		159+45		159+61	RT	---	---	---	---	94	---	---
		159+60		159+61	LT	---	---	---	---	6	---	---
		159+61		160+07	RT	---	---	71	---	---	---	---
		167+54		167+57	RT	---	---	---	---	6	---	---
		167+85		167+87	RT	---	---	---	---	5	---	---
		185+73	-	159+45	RT	---	72	---	---	---	---	---
		163+32	-	163+56	RT	---	44	---	---	---	---	---
		165+35	-	165+65	RT	---	37	---	---	---	---	---
		167+87		168+54	RT	---	---	109	---	---	---	---
		170+11	-	170+15	RT	---	13	---	---	---	---	---
		170+25	-	170+26	RT	---	4	---	---	---	---	---
		175+54	-	175+55	RT	---	48	---	---	---	---	---
		180+56		180+76	RT	---	---	33	---	---	---	---
		180+76		180+84	RT	---	---	---	8	---	---	---
		184+52	-	184+54	RT	---	47	---	---	---	---	---
		189+07	-	189+07	RT	---	51	---	---	---	---	---
		191+58	-	191+58	RT	---	4	---	---	---	---	---
		197+08	-	197+20	RT	---	62	---	---	---	---	---
		197+20	-	197+59	LT	---	39	---	---	---	---	---
		197+81	-	197+94	RT	---	17	---	---	---	---	---
		198+72	-	198+78	LT	---	11	---	---	---	---	---
		198+78	-	198+83	RT	---	13	---	---	---	---	---
		205+72	-	205+76	RT	---	4	---	---	---	---	---
		205+73	-	205+83	LT	---	21	---	---	---	---	---
		208+06	-	208+07	RT	---	5	---	---	---	---	---
		208+06		208+87	RT	---	---	---	82	---	---	---
		208+07	-	208+07	LT	---	2	---	---	---	---	---
		208+87		209+98	LT	---	---	---	111	---	---	---
		209+12	-	209+15	RT	---	26	---	---	---	---	---

REMOVING STORM SEWER (CONTINUED)

CATEGORY	ROAD	STATION TO STATION	LOCATION	204.0245.001 REMOVING STORM SEWER 6-INCH LF	204.0245.002 REMOVING STORM SEWER 12-INCH LF	204.0245.003 REMOVING STORM SEWER 15-INCH LF	204.0245.004 REMOVING STORM SEWER 18-INCH LF	204.0245.005 REMOVING STORM SEWER 21-INCH LF	204.0245.006 REMOVING STORM SEWER 24-INCH LF	204.0245.007 REMOVING STORM SEWER 30-INCH LF
0010	CTH O (STAGE 2)									
		209+15 - 209+15	LT	---	2	---	---	---	---	---
		209+98 211+39	RT	---	---	---	142	---	---	---
		211+36 211+39	LT	---	---	---	26	---	---	---
		216+26 - 216+44	LT	---	36	---	---	---	---	---
		216+29 - 216+32	RT	---	4	---	---	---	---	---
		220+32 - 220+32	LT	---	---	4	---	---	---	---
		220+32 - 220+33	RT	---	---	25	---	---	---	---
		222+55 222+57	RT	---	---	26	---	---	---	---
		222+57 222+57	LT	---	---	3	---	---	---	---
		225+21 - 225+37	LT	---	38	---	---	---	---	---
		225+28 - 225+34	RT	---	14	---	---	---	---	---
		228+06 - 228+16	LT	---	26	---	---	---	---	---
	STAGE 2 SUBTOTAL			0	698	271	528	111	0	0
			TOTAL 0010	0	1,163	467	726	162	70	8
0030	W LINCOLN AVE (STAGE 1)									
		417+21 - 417+21	RT	---	4	---	---	---	---	---
		419+71 - 419+80	RT	16	---	---	---	---	---	---
		419+80 - 420+03	LT	42	---	---	---	---	---	---
	W ROGERS DR (STAGE 1									
		444+99 - 445+46	LT	---	---	---	47	---	---	---
		448+15 - 448+21	RT	---	---	---	---	---	6	---
		448+93 - 449+03	LT	---	10	---	---	---	---	---
	STAGE 1 SUBTOTAL			58	14	0	47	0	6	0
			TOTAL 0030	58	14	0	47	0	6	0
			PROJECT TOTAL	**58**	**1,177**	**467**	**773**	**162**	**76**	**8**

EARTHWORK SUMMARY

DIVISION	FROM/TO STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2)	205.0100 EXCAVATION COMMON (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	EXPANDED EBS BACKFILL (CY) (6) FACTOR 1.20	EBS BACKFILL (6) 312.0110 SELECT CRUSHED MATERIAL (TONS) (TONS/CY) 1.90	UNEXPANDED FILL (CY)	EXPANDED FILL (CY) (8) FACTOR 1.20	MASS ORDINATE +/- (8)	WASTE (CY) (9)	BORROW (10)
DIVISION 1													
STAGE 1 (CAT 0010)	151+16 - 230+62	CTH O	21,322	10,410	10,959	10,363	12,492	23,735	661	793	9,570	19,980	0
	343+48 - 352+20	CTH D	3,933	2,940	1,491	2,442	3,528	6,703	3,829	4,595	-2,153	2,940	2,153
		UNDISTRIBUTED (3)	0	2,510	0	0	3,012	5,723	0	0	0	2,510	0
STAGE 1 (CAT 0030)	415+04 - 420+61	W LINCOLN AVE	1,493	330	436	1,057	396	752	248	298	759	1,089	0
	442+77 - 449+03	W ROGERS DR	2,503	780	431	2,072	936	1,778	175	210	1,862	2,642	0
		BIOSWALE	140	0	0	140	0	0	0	0	140	140	0
		UNDISTRIBUTED (3)	0	390	0	0	468	889	0	0	0	390	0
DIVISION 1 SUBTOTAL			29,391	17,360	13,317	16,074	20,832	39,581	4,914	5,897	10,177	29,690	2,153
DIVISION 2													
STAGE 2 (CAT 0010)	151+16 - 230+62	CTH O	21,074	5,160	9,188	11,886	6,192	11,765	467	560	11,326	16,486	0
	354+50 - 361+94	CTH D	3,419	0	1,587	1,832	0	0	1,118	1,342	490	490	0
		UNDISTRIBUTED (3)	0	2,680	0	0	3,216	6,110	0	0	0	2,680	0
STAGE 2 (CAT 0030)	422+63 - 424+90	W LINCOLN AVE	548	0	148	400	0	0	1	1	399	399	0
	442+77 - 449+03	W WOODVIEW DR	327	0	115	212	0	0	7	9	203	203	0
		UNDISTRIBUTED (3)	0	100	0	0	120	228	0	0	0	100	0
DIVISION 2 SUBTOTAL			25,368	7,940	11,038	14,330	9,528	18,103	1,594	1,912	12,418	20,358	0
DIVISION 3													
STAGE 3 (CAT 0010)	151+16 - 230+62	CTH O	561	0	172	389	0	0	0	0	389	389	0
		UNDISTRIBUTED (3)	0	80	0	0	96	182	0	0	0	80	0
DIVISION 3 SUBTOTAL			561	80	172	389	96	182	0	0	389	469	0
CAT 0010 SUBTOTAL			50,309	23,780	23,397	26,912	28,536	54,218	6,076	7,291	19,621	45,554	2,153
CAT 0030 SUBTOTAL			5,011	1,600	1,130	3,881	1,920	3,648	432	518	3,363	4,963	0
GRAND TOTAL			55,320	25,380	24,527	30,793	30,456	57,866	6,508	7,809	22,984	50,517	2,153
TOTAL COMMON EXC			80,700										

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS LOCATIONS AND DEPTHS TO BE DETERMINED BY THE ENGINEER AFTER PROOF ROLLING. ALL EBS MATERIAL IS TO BE WASTED OFFSITE AND IS NOT INCLUDED IN THE MASS ORDINATE.
EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL. APPROXIMATE EBS LOCATIONS SHOWN IN CONSTRUCTION DETAILS. UNDISTRIBUTED EBS ASSUMED TO BE 10% OF PAVEMENT AREA EXCLUDING EBS LOCATIONS SHOWN IN CONSTRUCTION DETAILS.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN THE CUT. THIS ASSUMES THE EXISTING PAVEMENT STRUCTURE IS SALVAGED OR WASTED BY THE CONTRACTOR. THE EXISTING PAVEMENT STRUCTURE IS NOT SHOWN IN THE CROSS SECTIONS.

(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(6) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL FACTOR = 1.20. ITEM NUMBER 305.0130

(7) EXPANDED FILL = UNEXPANDED FILL * EXPANDED FILL FACTOR (1.20)

(8) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION. SALVAGED/UNUSABLE MATERIAL & EBS EXCAVATION IS NOT INCLUDED IN THE MASS ORD

(9) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

(10) ADDITIONAL MATERIAL IS AVAILABLE WITHIN THE DIVISION.

BASE AGGREGATE ITEMS

CATEGORY	ROAD	STATION	TO	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON
0010	CTH O (STAGE 1)					
		149+00	-	155+00	---	733
		155+00	-	161+00	2	1,564
		161+00	-	167+00	---	1,406
		167+00	-	173+00	---	1,449
		173+00	-	179+00	---	1,287
		179+00	-	184+50	---	1,166
		184+50	-	190+50	---	1,627
		190+50	-	196+50	---	1,200
		196+50	-	202+50	---	1,557
		202+50	-	208+50	---	1,388
		208+50	-	214+50	11	1,495
		214+50	-	220+50	---	1,612
		220+50	-	226+50	---	1,724
		226+50	-	232+50	---	1,002
	CTH D (STAGE 1)					
		342+00	-	347+75	124	2,122
		347+75	-	352+20	91	3,987
	STAGE 1 SUBTOTAL					
					228	25,319

BASE AGGREGATE ITEMS (CONTINUED)

CATEGORY	ROAD	STATION	TO	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON
0010	CTH O (STAGE 2)					
		149+00	-	155+00	---	965
		155+00	-	161+00	---	1,858
		161+00	-	167+00	---	1,364
		167+00	-	173+00	---	1,343
		173+00	-	179+00	---	1,178
		179+00	-	184+50	---	1,258
		184+50	-	190+50	---	1,365
		190+50	-	196+50	---	1,448
		196+50	-	202+50	---	1,479
		202+50	-	208+50	---	1,091
		208+50	-	214+50	---	895
		214+50	-	220+50	---	1,231
		220+50	-	226+50	---	1,244
		226+50	-	232+50	---	603
	CTH D (STAGE 2)					
		354+28	-	359+50	---	3,776
		359+50	-	365+00	---	813
	STAGE 2 SUBTOTAL					
					0	21,911
	CTH O (STAGE 3)					
		149+00	-	155+00	---	63
		161+00	-	167+00	---	22
		202+50	-	208+50	---	319
	STAGE 3 SUBTOTAL					
					0	404
				TOTAL 0010	228	47,634

BASE AGGREGATE ITEMS (CONTINUED)

CATEGORY	ROAD	STATION	TO	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON
0030	W LINCOLN AVE (STAGE 1)					
		415+00	-	420+72	---	2,717
	W ROGERS DR (STAGE 1)					
		442+00	-	449+03	39	3,733
	STAGE 1 SUBTOTAL					
					39	6,450
	W LINCOLN AVE (STAGE 2)					
		422+62	-	426+00	---	770
	WOODVIEW DR (STAGE 2)					
		450+94	-	453+00	---	506
	STAGE 2 SUBTOTAL					
					0	1,276
				TOTAL 0030	39	7,726
				PROJECT TOTAL	**267**	**55,360**

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE ITEMS

CATEGORY	ROAD	STATION TO	STATION	415.0095 CONCRETE PAVEMENT 9 1/2-INCH SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0815 CONCRETE DRIVEWAY 7-INCH SY	602.0820 CONCRETE DRIVEWAY 8-INCH SY	602.2400 CONCRETE SAFETY ISLANDS SF	602.3010 CONCRETE SURFACE DRAINS CY	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
0010	CTH O (STAGE 1)													
		149+00 -	155+00	1,456	4	37	798	---	---	---	---	---	---	---
		155+00 -	161+00	3,387	---	---	1,731	---	---	---	---	---	---	39
		161+00 -	167+00	3,072	4	---	---	---	---	25	---	---	---	---
		167+00 -	173+00	2,976	8	---	---	---	---	---	---	---	---	22
		173+00 -	179+00	2,712	---	---	---	---	---	---	---	---	---	---
		179+00 -	184+50	2,201	---	---	839	---	---	---	---	---	---	---
		184+50 -	190+50	3,679	---	---	283	---	---	---	---	572	---	42
		190+50 -	196+50	2,400	---	---	846	---	---	---	---	---	---	---
		196+50 -	202+50	3,522	4	---	360	---	---	---	---	----	---	35
		202+50 -	208+50	2,854	---	---	---	---	---	---	---	---	---	---
		208+50 -	214+50	3,078	---	---	653	---	40	15	---	---	---	---
		214+50 -	220+50	3,581	---	---	---	---	---	---	---	---	---	---
		220+50 -	226+50	3,863	20	---	268	36	---	---	---	---	---	---
		226+50 -	232+50	2,213	30	40	---	---	---	---	---	---	---	---
	CTH D (STAGE 1)													
		342+00 -	347+75	---	---	---	---	---	---	---	---	---	---	6
		347+75 -	352+20	---	4	---	837	---	---	30	---	---	---	---
	STAGE 1 SUBTOTAL													
				40,994	74	77	6,615	36	40	70	0	572	0	144

CONCRETE ITEMS (CONTINUED)

CATEGORY	ROAD	STATION TO	STATION	415.0095 CONCRETE PAVEMENT 9 1/2-INCH SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0815 CONCRETE DRIVEWAY 7-INCH SY	602.0820 CONCRETE DRIVEWAY 8-INCH SY	602.2400 CONCRETE SAFETY ISLANDS SF	602.3010 CONCRETE SURFACE DRAINS CY	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
0010	CTH O (STAGE 2)													
		149+00 -	155+00	2134	48	28	---	---	---	---	---	---	---	---
		155+00 -	161+00	4,400	2	---	702	---	---	---	---	---	---	20
		161+00 -	167+00	2,638	2	---	1,299	---	---	---	---	---	---	---
		167+00 -	173+00	2,775	2	---	---	---	---	---	---	---	---	22
		173+00 -	179+00	2,410	---	---	---	---	---	---	---	---	---	---
		179+00 -	184+50	2,696	2	---	---	---	---	---	---	---	---	---
		184+50 -	190+50	2,886	2	---	108	---	---	---	---	---	---	40
		190+50 -	196+50	3,261	24	---	---	---	---	---	---	---	---	---
		196+50 -	202+50	3,295	2	---	871	---	---	---	---	---	---	39
		202+50 -	208+50	2,509	4	---	---	---	---	---	---	---	---	---
		208+50 -	214+50	1,706	---	---	230	---	40	---	---	---	---	---
		214+50 -	220+50	2,581	---	---	1,005	---	---	---	---	---	---	97
		220+50 -	226+50	2,718	---	---	1,566	---	---	---	---	---	---	40
		226+50 -	232+50	1,017	144	20	---	---	---	---	---	---	---	---
	CTH D (STAGE 2)													
		354+28 -	359+50	---	8	---	565	---	---	75	---	---	---	25
		359+50 -	365+00	---	---	---	---	---	---	21	---	---	---	---
	STAGE 2 SUBTOTAL													
				37,026	240	48	6,346	0	40	96	0	0	0	283
	CTH O (STAGE 3)													
		149+00 -	155+00	---	129	---	542	---	---	---	---	---	---	20
		161+00 -	167+00	---	8	---	8	---	---	---	---	---	---	---
		202+50 -	208+50	598	8	---	8	---	---	---	---	---	---	45
	STAGE 3 SUBTOTAL													
				598	145	0	558	0	0	0	0	0	0	65
			TOTAL 0010	78,618	459	125	13,519	36	80	166	0	572	0	492

CONCRETE ITEMS (CONTINUED)

CATEGORY	ROAD	STATION TO	STATION	415.0095 CONCRETE PAVEMENT 9 1/2-INCH SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0815 CONCRETE DRIVEWAY 7-INCH SY	602.0820 CONCRETE DRIVEWAY 8-INCH SY	602.2400 CONCRETE SAFETY ISLANDS SF	602.3010 CONCRETE SURFACE DRAINS CY	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
0030	W LINCOLN AVE (STAGE 1)													
		415+00 -	420+72	---	4	---	720	---	---	15	61	---	3	14
	W ROGERS DR (STAGE 1)													
		422+00 -	449+03	---	4	---	991	---	---	---	---	---	---	14
	STAGE 1 SUBTOTAL													
				0	8	0	1,711	0	0	15	61	0	3	28
	W LINCOLN AVE (STAGE 2)													
		422+62 -	426+00	---	4	---	717	---	---	---	---	---	---	6
	WOODVIEW DR (STAGE 2)													
		450+94 -	453+00	---	4	---	410	---	---	---	---	---	---	28
	STAGE 2 SUBTOTAL													
				0	8	0	1,127	0	0	0	0	0	0	34
	TOTAL 0030			0	16	0	2,838	0	0	15	61	0	3	62
	PROJECT TOTAL			**78,618**	**475**	**125**	**16,357**	**36**	**80**	**181**	**61**	**572**	**3**	**554**

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HIGH EARLY STRENGTH CONCRETE ITEMS

CATEGORY	ROAD	STATION	TO	STATION	415.1095 CONCRETE PAVEMENT HES 9 1/2-INCH SY	602.0865 CONCRETE DRIVEWAY HES 7-INCH SY	SPV.0090.006 CONCRETE CURB & GUTTER HES 30-INCH TYPE A	SPV.0090.007 CONCRETE CURB & GUTTER HES 30-INCH TYPE D
0010	CTH O (STAGE 2)							
		161+00	-	167+00	170	97	49	---
		167+00	-	173+00	80	23	26	---
		179+00	-	184+50	80	27	28	---
		184+50	-	190+50	90	14	29	---
	CTH D (STAGE 2)							
		359+50	-	365+00	---	21	---	29
				TOTAL 0010	420	182	132	29
				PROJECT TOTAL	**420**	**182**	**132**	**29**

HMA ITEMS

CATEGORY	ROAD	STATION TO	STATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	* 465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0315 ASPHALTIC FLUMES SY	495.1000.S COLD PATCH TON
0010	CTH O (STAGE 1)											
		149+00 -	155+00	---	---	---	---	---	---	---	---	---
		155+00 -	161+00	---	---	---	---	---	---	---	5	---
		161+00 -	167+00	---	4	---	---	---	10	---	---	---
		167+00 -	173+00	---	15	---	---	---	37	---	---	---
		173+00 -	179+00	---	3	9	---	---	---	---	10	---
		179+00 -	184+50	---	---	---	---	---	---	---	---	---
		184+50 -	190+50	---	---	---	---	---	---	---	---	---
		190+50 -	196+50	---	---	---	---	---	---	---	---	---
		196+50 -	202+50	---	3	---	---	---	7	---	---	---
		202+50 -	208+50	---	16	16	---	---	28	---	---	---
		208+50 -	214+50	---	17	33	---	13	4	---	---	---
		214+50 -	220+50	---	4	6	---	---	6	---	---	---
		220+50 -	226+50	---	5	17	---	---	---	---	---	---
		226+50 -	232+50	---	---	---	---	---	---	---	---	---
	CTH D (STAGE 1)											
		342+00 -	347+75	---	304	---	641	225	---	---	---	---
		347+75 -	352+20	---	495	---	1042	365	---	---	14	---
	STAGE 1 SUBTOTAL											
				0	866	81	1683	603	92	0	29	0

HMA ITEMS (CONTINUED)

CATEGORY	ROAD	STATION TO	STATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	* 465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0315 ASPHALTIC FLUMES SY	495.1000.S COLD PATCH TON
0010	CTH O (STAGE 2)											
		149+00 -	155+00	---	5	---	---	---	11	---	---	---
		155+00 -	161+00	---	6	---	---	---	14	---	---	---
		161+00 -	167+00	---	3	7	---	---	3	---	8	---
		167+00 -	173+00	---	5	7	---	---	7	---	---	---
		173+00 -	179+00	---	9	---	---	---	22	---	---	---
		179+00 -	184+50	---	3	7	---	---	3	---	---	---
		184+50 -	190+50	---	---	---	---	---	---	---	---	---
		190+50 -	196+50	---	3	9	---	---	---	---	---	---
		196+50 -	202+50	---	---	---	---	---	---	---	---	---
		202+50 -	208+50	---	---	---	---	---	---	---	---	---
		208+50 -	214+50	---	4	---	---	8	---	---	---	---
		214+50 -	220+50	---	---	---	---	---	---	---	---	---
		220+50 -	226+50	---	---	---	---	---	---	---	---	---
		226+50 -	232+50	---	---	---	---	---	---	---	---	---
	CTH D (STAGE 2)											
		354+28 -	359+50	---	572	---	811	522	55	---	---	---
		359+50 -	365+00	---	160	6	182	183	---	1	10	---
	STAGE 2 SUBTOTAL			0	770	36	993	713	115	1	18	0
	UNDISTRIBUTED			50	0	0	0	0	0	0	0	50
			TOTAL 0010	50	1,636	117	2,676	1,316	207	1	47	50

HMA ITEMS (CONTINUED)

CATEGORY	ROAD	STATION TO	STATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	* 465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0315 ASPHALTIC FLUMES SY	495.1000.S COLD PATCH TON
0030	W LINCOLN AVE (STAGE 1)											
		415+00 -	420+72	---	388	---	722	364	3	---	---	---
	W ROGERS DR (STAGE 1)											
		422+00 -	449+03	---	536	---	1035	405	39	---	5	---
	STAGE 1 SUBTOTAL			0	924	0	1757	769	42	0	5	0
	W LINCOLN AVE (STAGE 2)											
		422+62 -	426+00	---	92	---	164	89	---	---	---	---
	WOODVIEW DR (STAGE 2)											
		450+94 -	453+00	---	53	---	111	39	---	---	---	---
	STAGE 2 SUBTOTAL			0	145	0	275	128	0	0	0	0
		TOTAL 0030		0	1,069	0	2,032	897	42	0	5	0
		PROJECT TOTAL		**50**	**2,705**	**117**	**4,708**	**2,213**	**249**	**1**	**52**	**50**

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CLEANING CULVERT PIPES

CATEGORY	ROAD	STATION	TO	STATION	OFFSET	520.8700 CLEANING CULVERT PIPES EACH
0010	CTH O					
		211+36	-	211+40	16'LT - 67'LT	1
		211+48	-	211+49	50'LT - 64'LT	1
		211+49	-	511+54	14'LT - 50'LT	1
		211+54	-	211+57	12'RT - 14'LT	1
		211+57	-	211+63	50'RT - 12'RT	1
		211+63	-	211+64	71'RT - 50'RT	1
		211+71	-	211+91	69'RT - 68'LT	1
					TOTAL 0010	7
					PROJECT TOTAL	**7**

CURB ITEMS

CATEGORY	ROAD	STATION	TO	STATION	601.0105 CONCRETE CURB TYPE A LF	601.0110 CONCRETE CURB TYPE D LF	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	SPV.0090.001 CONCRETE CURB & GUTTER 24-INCH TYPE D LF
0010	CTH O (STAGE 1)										
		149+00	-	155+00	---	---	---	---	878	---	---
		155+00	-	161+00	---	---	4	---	1,273	---	---
		161+00	-	167+00	---	---	51	---	1,085	---	71
		167+00	-	173+00	---	---	---	16	1,004	84	---
		173+00	-	179+00	---	---	---	---	1,218	---	---
		179+00	-	184+50	---	---	---	---	1,330	---	---
		184+50	-	190+50	---	---	23	---	883	---	---
		190+50	-	196+50	---	---	---	---	1,422	---	---
		196+50	-	202+50	---	---	11	---	935	12	---
		202+50	-	208+50	---	---	---	---	1,179	---	---
		208+50	-	214+50	---	---	---	---	1,152	---	---
		214+50	-	220+50	---	---	---	---	1,190	---	---
		220+50	-	226+50	---	---	---	---	1,122	14	---
		226+50	-	232+50	---	---	---	---	792	---	---
	CTH D (STAGE 1)										
		342+00	-	347+75	---	---	---	---	---	124	---
		347+75	-	352+20	---	---	30	---	---	1,430	---
	STAGE 1 SUBTOTAL				0	0	119	16	15,463	1,664	71

CURB ITEMS (CONTINUED)

CATEGORY	ROAD	STATION	TO	STATION	601.0105 CONCRETE CURB TYPE A LF	601.0110 CONCRETE CURB TYPE D LF	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	SPV.0090.001 CONCRETE CURB & GUTTER 24-INCH TYPE D LF
0010	CTH O (STAGE 2)										
		149+00	-	155+00	---	---	---	---	710	---	---
		155+00	-	161+00	---	---	---	---	776	---	---
		161+00	-	167+00	---	---	---	---	1,172	---	---
		167+00	-	173+00	---	---	---	---	1,245	---	---
		173+00	-	179+00	---	---	---	---	1,200	---	---
		179+00	-	184+50	---	---	---	---	859	---	---
		184+50	-	190+50	---	---	---	---	1,230	---	---
		190+50	-	196+50	---	---	---	---	963	---	---
		196+50	-	202+50	---	---	---	---	1,164	---	---
		202+50	-	208+50	---	---	---	---	672	---	---
		208+50	-	214+50	---	---	---	---	1,153	---	---
		214+50	-	220+50	---	---	---	---	1,165	---	---
		220+50	-	226+50	---	---	---	---	987	---	---
		226+50	-	232+50	---	---	---	---	1,112	---	---
	CTH D (STAGE 2)										
		354+28	-	359+50	11	77	28	---	---	1,956	---
		359+50	-	365+00	---	---	---	---	---	264	---
	STAGE 2 SUBTOTAL				11	77	28	0	14,408	2,220	0
	CTH O (STAGE 3)										
		149+00	-	155+00	---	---	---	4	304	125	---
		161+00	-	167+00	---	---	---	---	112	---	---
		202+50	-	208+50	---	---	---	---	336	---	---
	STAGE 3 SUBTOTAL				0	0	0	4	752	125	0
				TOTAL 0010	11	77	147	20	30,623	4,009	71

CURB ITEMS (CONTINUED)

CATEGORY	ROAD	STATION	TO	STATION	601.0105 CONCRETE CURB TYPE A LF	601.0110 CONCRETE CURB TYPE D LF	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	SPV.0090.001 CONCRETE CURB & GUTTER 24-INCH TYPE D LF
0030	W LINCOLN AVE (STAGE 1)										
		415+00	-	420+72	---	---	---	299	---	853	---
	W ROGERS DR (STAGE 1)										
		422+00	-	449+03	---	---	---	409	---	403	---
	STAGE 1 SUBTOTAL				0	0	0	708	0	1,256	0
	W LINCOLN AVE (STAGE 2)										
		422+62	-	426+00	---	---	---	---	---	588	---
	WOODVIEW DR (STAGE 2)										
		450+94	-	453+00	---	---	---	---	---	358	---
	STAGE 2 SUBTOTAL				0	0	0	0	0	946	0
				TOTAL 0030	0	0	0	708	0	2,202	0
				PROJECT TOTAL	**11**	**77**	**147**	**728**	**30,623**	**6,211**	**71**

CULVERT PIPE SUMMARY

						521.1217	521.1505	521.3124	521.3717			
						APRON ENDWALLS FOR PIPE ARCH STEEL 17X13-INCH	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24- INCH 4 TO 1	CULVERT PIPE CORRUGATED STEEL 24-	PIPE ARCH CORRUGATED STEEL 17X13-INCH	INLET*	OUTLET*	SLOPE
CATEGORY	STATION	FROM	-	TO	LOCATION	EACH	EACH	LF	LF	ELEVATION	ELEVATION	FT/FT
0010	360+19.00' RT	501	-	500	CTY-D	2			54	894.80	894.48	0.0060
0030	444+03.50' RT	508	-	509	LCL-ROGERS-W		2	88		849.96	849.08	0.0100
0030	446+36.00' RT	510	-	511	LCL-ROGERS-W		2	76		854.80	852.98	0.0240
					SUBTOTAL CATEGORY 0010	2	0	0	54			
					SUBTOTAL CATEGORY 0030	0	4	164	0			
					GRAND TOTAL	2	4	164	54			

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MARKERS CULVERT END

CATEGORY	STATION	633.5200 MARKERS CULVERT END EACH
	CTH-O - MOORLAND ROAD	
0010	168+08, 81' RT	1
0010	168+59, 83' RT	1
0010	170+10, 80' LT	1
0010	175+92, 94' LT	1
0010	181+93, 70 LT	1
0010	181+86, 70 LT	1
0010	183+34, 71 RT	1
0010	183+68, 72 RT	1
0010	192+88, 80' LT	1
	CTH-D - CLEVELAND AVE	
0010	347+14, 43' LT	1
0010	359+93, 47' RT	1
0010	360+45, 45' RT	1
	W LINCOLN AVE	
0030	417+22, 30' LT	1
0030	420+05, 36' LT	1
	W ROGERS DR	
0030	443+69, 37' RT	1
0030	444+38, 42' RT	1
0030	444+94, 30' LT	1
0030	446+13, 45' RT	1
0030	446+69, 47' RT	1
0030	447+97, 48' RT	1
	SUBTOTAL CATEGORY 0010	12
	SUBTOTAL CATEGORY 0030	8
	TOTALS	20

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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TEMPORARY DRAINAGE

CATEGORY	STATION	611.8120.S COVER PLATES TEMPORARY EACH	611.0651 INLET COVERS TYPE S EACH
	CTH-O - MOORLAND ROAD		
0010	152+04, 2'LT	1	-
0010	152+05, 12'LT	1	-
0010	152+06, 12'RT	1	-
0010	159+61, 13'RT	1	-
0010	159+62, 5'RT	1	-
0010	197+58, 5'LT	1	-
0010	198+72, 4'LT	1	-
0010	198+82, 3'RT	1	-
0010	198+83, 13'RT	1	-
0010	205+73, 13'LT	1	-
0010	205+73, 3'RT	1	-
0010	205+83, 5'LT	1	-
0010	208+06, 5'RT	1	-
0010	216+25, 14'LT	-	1
0010	216+30, 4'RT	1	-
0010	216+42, 6'LT	1	-
0010	220+31, 14'LT	-	1
0010	225+21, 14'LT	-	1
0010	228+07, 14'LT	1	-
	TOTALS	16	3

SANITARY SEWER

STATION	CATEGORY 0020 SPV.0060.202 ADJUSTING SANITARY MANHOLES EACH
CTH-O — MOORLAND ROAD	
161+64, 55.3'RT	1
163+40, 56.2'RT	1
163+72, 44.1'RT	1
166+22, 43.6'RT	1
168+31, 44.8'RT	1
171+35, 44.5'RT	1
174+35, 44.4'RT	1
177+64, 44.3'RT	1
179+71, 44.7'RT	1
181+00, 55.4'RT	1
183+17, 56.3'RT	1
185+46, 386.1 LT	1
185+61, 86.8'LT	1
185+69, 54.5'RT	1
213+44, 1.2'RT	1
216+88, 27.6'LT	1
CTH-D — CLEVELAND AVE	
357+54, 40.3'LT	1
TOTALS	17

WATER MAIN

STATION	CATEGORY 0020 612.0902.S.201 INSULATION BOARD POLYSTYRENE 2-INCH SY	CATEGORY 0020 SPV.0060.201 ADJUSTING WATER VALVE BOXES EACH
CTH-O — MOORLAND ROAD		
151+35, 63.1'LT	-	1
151+72, 62.7'RT	-	1
158+65, 63.6'RT	-	1
158+65, 69.2'RT	-	1
176+32, 84.2'LT	-	1
176+35, 104.7'LT	-	1
181+14, 68.3'RT	-	1
189+06, 66.3'RT	-	1
197+42, 442.0'LT	-	1
197+80, 629.0'LT	-	1
197+95, 385.4'LT	-	1
198+04, 305.6 LT	-	1
198+06, 284.4'LT	-	1
198+18, 98.4'LT	-	1
198+41, 67.5'RT	-	1
206+56, 64.0'RT	-	1
206+59, 65.9'RT	-	1
206+62, 82.6'RT	-	1
225+33, 57.6'LT	-	1
225+82, 59.2'LT	-	1
CTH-D — CLEVELAND AVE		
355+83, 59.4'RT	-	1
356+86, 49.1'RT	-	1
UNDISTRIBUTED	40	-
TOTALS	40	22

WATER MAIN

CATEGORY 0020

ITEM	QUANTITY	UNIT	DESCRIPTION
SPV.0060.203	2	EACH	PERMANENT CONNECTION TO EXISTING 16-INCH WATER MAIN
SPV.0090.201	48	LF	REMOVING WATER MAIN
SPV. 0090.202	58	LF	AWWA C900 DR-18 PVC WATER MAIN 16-INCH

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

TEMPORARY PIPE CONNECTION

STATION TO STATION	530.0124 CULVERT PIPE CORRUGATED POLYETHYLENE 24-INCH LF	612.0212 PIPE UNDERDRAIN UNPERFORATED 12-INCH LF	612.0215 PIPE UNDERDRAIN UNPERFORATED 15-INCH LF	SPV.0060.121 TEMPORARY PIPE CONNECTION, 12-INCH EACH	SPV.0060.122 TEMPORARY PIPE CONNECTION, 15-INCH EACH	SPV.0060.123 TEMPORARY PIPE CONNECTION, 24-INCH EACH	COMMENT
MOORLAND RD (CTH O)							
159+46 LT	-	-	-	-	-	1	CONNECT PROPOSED 24" TO EXISTING 18"
167+55 LT	-	-	-	1	-	-	CONNECT PROPOSED 12" TO EXISTING 12"
175+54 LT	-	-	-	1	-	-	CONNECT PROPOSED 12" TO EXISTING 12"
180+32 RT	-	-	-	1	-	-	CONNECT PROPOSED 12" TO EXISTING 12"
189+06 RT	-	50	-	1	-	-	CONNECT PROPOSED 12" TO EXISTING 12"
197+33 LT	-	-	-	1	-	-	CONNECT PROPOSED 12" TO EXISTING 12"
209+14 RT	-	-	-	1	-	-	CONNECT PROPOSED 12" TO EXISTING 12"
222+57 RT	-	-	-	-	1	-	CONNECT PROPOSED 15" TO EXISTING 15"
225+30 RT	-	-	-	1	-	-	CONNECT PROPOSED 12" TO EXISTING 12"
UNDISTRIBUTED	10	50	10	-	-	-	-
TOTALS	10	100	10	7	1	1	

CONNECT TO EXISTING STRUCTURE

STATION	SPV.0060.120 EACH
MOORLAND RD (CTH O)	
186+86, 52' RT	1
191+58, 5' LT	1
192+89, 3' LT	1
194+60, 52' RT	1
197+59, 6' LT	1
205+83, 5' LT	1
LINCOLN AVE	
419+71, 13' RT	1
TOTALS	7

RECONSTRUCTING MANHOLES SPECIAL

STATION	SPV.0060.124 EACH
MOORLAND RD (CTH O)	
220+32, 4' LT	1
TOTALS	1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

FILE NAME : X:\ML\2022\20220750\Design\Transportation\Design\Quantities\PSE_MQ Tables_CTH-O.pptx PLOT DATE : 7/23/2026 9:19 AM PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

					STORM SEWER PIPES																		
					608.0312	608.0315	608.0318	608.0321	608.0324	608.0330	608.0412	608.0415	608.0418	608.0424	608.0430	608.0512	612.0204	612.0206	612.0208				
					STORM SEWER PIPE REINFORCED CONCRETE CLASS III						STORM SEWER PIPE REINFORCED CONCRETE CLASS IV					STORM SEWER PIPE REINFORCED CONCRETE CLASS V	PIPE UNDERDRAIN UNPERFORATED			JOINT TIES*	INLET	DISCHARGE	SLOPE
					12-INCH	15-INCH	18-INCH	21-INCH	24-INCH	30-INCH	12-INCH	15-INCH	18-INCH	24-INCH	30-INCH	12-INCH	4-INCH	6-INCH	8-INCH				
CATEGORY	FROM	-	TO	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	ELEVATION	ELEVATION	FT/FT
0010	101A	-	101	CTY-O			13														861.10	860.80	0.0235
0010	101C	-	101B	CTY-O			8														861.54	861.46	0.0100
0010	102A	-	102	CTY-O	15																862.02	861.87	0.0100
0010	103	-	103A	CTY-O			8														861.91	861.83	0.0100
0010	103C	-	103	CTY-O	43																862.41	861.96	0.0103
0010	103D	-	103	CTY-O			136														863.60	862.01	0.0117
0010	104A	-	104	CTY-O	10																865.87	865.77	0.0100
0010	104C	-	104B	CTY-O	7																867.82	867.66	0.0230
0010	104D	-	104C	CTY-O							11										868.18	867.92	0.0230
0010	104F	-	104E	CTY-O							8										868.67	868.60	0.0090
0010	105	-	105A	CTY-D	5																878.52	878.42	0.0200
0010	105A	-	105B	CTY-D	37															X	878.32	877.58	0.0200
0010	106	-	106B	CTY-D					8												875.42	874.88	0.0675
0010	106C	-	106	CTY-D					8												875.58	875.42	0.0195
0010	107	-	107A	CTY-D					56												883.05	881.66	0.0248
0010	107B	-	107C	CTY-O								7									884.26	884.19	0.0100
0010	107C	-	107	CTY-O								144									884.19	883.47	0.0050
0010	107D	-	107E	CTY-O		81															886.01	885.20	0.0100
0010	107E	-	107	CTY-O		50															885.20	883.47	0.0345
0010	108	-	107	CTY-O										138							886.00	883.05	0.0214
0010	108A	-	108B	CTY-O							6										888.15	888.08	0.0100
0010	108B	-	108C	CTY-O							50										888.08	887.59	0.0100
0010	108C	-	108D	CTY-O		33															887.33	887.17	0.0050
0010	108D	-	108E	CTY-O		30															887.17	887.02	0.0050
0010	108E	-	108	CTY-D								16									887.02	886.94	0.0050
0010	108F	-	108	CTY-D							52										888.09	887.57	0.0100
0010	108G	-	108F	CTY-D							5										888.12	888.09	0.0050
0010	108H	-	108G	CTY-D							31										888.27	888.12	0.0050
0010	109	-	109A	CTY-D			8														887.97	887.95	0.0024
0010	109B	-	109	CTY-D			8														887.98	887.96	0.0024
0010	109C	-	109	CTY-D		6															891.77	891.71	0.0100
0010	109D	-	109C	CTY-D								31									891.93	891.77	0.0050
0010	109E	-	109D	CTY-D								18									892.02	891.93	0.0050
0010	109F	-	109E	CTY-D								29									892.17	892.02	0.0050
0010	EX PIPE	-	110	CTY-D														10			889.30	889.20	0.0100
0010	EX PIPE	-	110	CTY-D													9				889.80	889.71	0.0100
0010	111C	-	111B	CTY-O	5																890.20	890.08	0.0240
0010	111D	-	111C	CTY-O	24																890.32	890.20	0.0050
0010	112A	-	112B	CTY-O							47										885.03	884.80	0.0050
0010	112B	-	112	CTY-O							11										884.80	884.74	0.0050
0010	112C	-	112	CTY-O									30								885.30	884.24	0.0352
0010	112D	-	112	CTY-O							46										884.97	884.74	0.0050
0010	113B	-	113C	CTY-O	8																877.49	877.39	0.0131
0010	113C	-	113	CTY-O	15																877.39	877.22	0.0117
0010	113D	-	113C	CTY-O	38																878.13	877.39	0.0193
0010	113E	-	113	CTY-O			8														877.57	877.28	0.0367
0010	113F	-	113	CTY-O				8													876.90	876.88	0.0022
0010	113H	-	113G	CTY-O				8													877.02	877.00	0.0022
0010	113I	-	113H	CTY-O			31														877.42	877.27	0.0050
0010	113J	-	113I	CTY-O		10														X	878.80	877.65	0.1186
			SUBTOTAL CATEGORY 0010		207	210	220	16	72	0	267	245	30	138	0	0	9	10	0				
			SUBTOTAL CATEGORY 0030		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
			*NON-BID ITEM: FOR INFORMATION ONLY																				

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

STORM SEWER PIPES CONTINUED

					608.0312	608.0315	608.0318	608.0321	608.0324	608.0330	608.0412	608.0415	608.0418	608.0424	608.0430	608.0512	612.0204	612.0206	612.0208				
					STORM SEWER PIPE REINFORCED CONCRETE CLASS III						STORM SEWER PIPE REINFORCED CONCRETE CLASS IV					STORM SEWER PIPE REINFORCED CONCRETE CLASS V	PIPE UNDERDRAIN UNPERFORATED			JOINT TIES*	INLET	DISCHARGE	SLOPE
					12-INCH	15-INCH	18-INCH	21-INCH	24-INCH	30-INCH	12-INCH	15-INCH	18-INCH	24-INCH	30-INCH	12-INCH	4-INCH	6-INCH	8-INCH				
CATEGORY	FROM	-	TO	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	ELEVATION	ELEVATION	FT/FT
0010	113K	-	113I	CTY-O								42								X	878.60	877.67	0.0221
0010	EX PIPE	-	113H	CTY-O														13			879.13	879.00	0.0100
0010	114	-	114E	CTY-O					6												874.24	874.22	0.0031
0010	114C	-	114B	CTY-O										8							873.85	873.79	0.0073
0010	114E	-	114D	CTY-O										8							874.22	874.19	0.0037
0010	114F	-	114	CTY-O	7																875.25	874.89	0.0524
0010	114G	-	114F	CTY-O	8																875.92	875.49	0.0530
0010	114I	-	114H	CTY-O							8										877.68	877.26	0.0530
0010	EX PIPE	-	114I	CTY-O														8			878.10	878.00	0.0126
0010	116	-	116D	CTY-O			8														869.35	869.20	0.0189
0010	116D	-	116C	CTY-O									8								869.20	869.08	0.0154
0010	116E	-	116	CTY-O	17																869.92	869.75	0.0100
0010	116F	-	116E	CTY-O							39										870.32	869.92	0.0100
0010	117B	-	118	CTY-O		8															860.75	860.59	0.0196
0010	118	-	119A	CTY-O		39															859.90	858.17	0.0442
0010	118A	-	118B	CTY-O							39										861.54	861.25	0.0075
0010	118B	-	118C	CTY-O	8																861.25	861.19	0.0075
0010	118C	-	118D	CTY-O	17																861.19	861.06	0.0075
0010	118E	-	118	CTY-O	8																860.24	860.09	0.0186
0010	119B	-	119A	CTY-O	12																859.02	858.90	0.0100
0010	120	-	120A	CTY-O					8												854.67	854.59	0.0100
0010	120B	-	120	CTY-O					8												855.05	854.95	0.0127
0010	120C	-	120	CTY-O	8																856.00	855.96	0.0044
0010	121	-	121D	CTY-O					8												856.07	855.99	0.0100
0010	121A	-	121B	CTY-O							15										858.14	857.99	0.0100
0010	121B	-	121C	CTY-O								39									857.99	857.21	0.0200
0010	121C	-	121	CTY-O		9															857.21	857.03	0.0200
0010	122	-	122B	CTY-O				8													856.54	856.48	0.0083
0010	122A	-	122	CTY-O	8																858.33	858.25	0.0100
0010	122C	-	122	CTY-O		59															858.49	857.29	0.0204
0010	122D	-	122C	CTY-O	39																859.14	858.74	0.0100
0010	123	-	123A	CTY-O				8													857.12	857.06	0.0073
0010	123B	-	123	CTY-O				8													857.20	857.17	0.0032
0010	123C	-	123	CTY-O	11																858.49	858.04	0.0403
0010	123E	-	123D	CTY-O							7										860.47	860.20	0.0405
0030	125	-	125A	LINCOLN			8														849.04	848.89	0.0178
0030	125B	-	125	LINCOLN							13										849.67	849.54	0.0100
0030	126D	-	126C	LINCOLN							7										852.47	852.12	0.0469
0030	126E	-	126D	LINCOLN							10										852.52	852.47	0.0047
0030	127A	-	Ex. Pipe	LINCOLN														3			857.42	857.35	0.0215
0030	127B	-	127	LINCOLN							18										856.40	856.11	0.0163
0010	129	-	128	CTY-O	7																858.61	858.46	0.0200
0010	129A	-	129	CTY-O	23																859.92	859.46	0.0200
0010	129B	-	129	CTY-O	8																859.00	858.71	0.0354
0010	129D	-	129C	CTY-O							19										860.58	860.39	0.0100
0010	130A	-	130	CTY-O			8														858.29	858.26	0.0038
0010	131A	-	131	CTY-O							48										859.05	858.81	0.0050
0010	132	-	131	CTY-O									96								858.68	858.39	0.0030
0010	132A	-	132B	CTY-O							15										859.49	859.45	0.0030
0010	132B	-	132C	CTY-O								53									859.20	858.93	0.0050
0010	132C	-	132	CTY-O		6															858.96	858.93	0.0050
0010	132D	-	132C	CTY-O							15										859.17	859.09	0.0050
0010	132E	-	132	CTY-O	7																859.44	859.37	0.0100
0010	132F	-	132E	CTY-O	39																859.83	859.44	0.0100
SUBTOTAL CATEGORY 0010					227	121	16	24	30	0	205	134	104	16	0	0	0	21	0				
SUBTOTAL CATEGORY 0030					0	0	8	0	0	0	48	0	0	0	0	0	0	3	0				

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STORM SEWER PIPES CONTINUED

					608.0312	608.0315	608.0318	608.0321	608.0324	608.0330	608.0412	608.0415	608.0418	608.0424	608.0430	608.0512	612.0204	612.0206	612.0208				
					STORM SEWER PIPE REINFORCED CONCRETE CLASS III						STORM SEWER PIPE REINFORCED CONCRETE CLASS IV					STORM SEWER PIPE REINFORCED CONCRETE CLASS V	PIPE UNDERDRAIN UNPERFORATED			JOINT TIES*	INLET	DISCHARGE	SLOPE
					12-INCH	15-INCH	18-INCH	21-INCH	24-INCH	30-INCH	12-INCH	15-INCH	18-INCH	24-INCH	30-INCH	12-INCH	4-INCH	6-INCH	8-INCH				
CATEGORY	FROM	-	TO	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	ELEVATION	ELEVATION	FT/FT
0010	133	-	134	CTY-O							83										861.00	860.58	0.0050
0010	133A	-	133	CTY-O	13																861.16	861.10	0.0050
0010	133B	-	133A	CTY-O							15										861.24	861.16	0.0050
0010	133C	-	133A	CTY-O							42										861.37	861.16	0.0050
0010	133D	-	133C	CTY-O							15										861.54	861.47	0.0050
0010	134B	-	134A	CTY-O								7									861.26	861.18	0.0123
0010	135	-	135G	CTY-O					9												858.93	858.59	0.0370
0010	135C	-	135B	CTY-O					4												858.23	858.23	0.0000
0010	135D	-	135C	CTY-O							13										859.30	859.23	0.0050
0010	135E	-	135C	CTY-O										4							858.27	858.23	0.0092
0010	135G	-	135F	CTY-O										4							858.59	858.55	0.0092
0010	135H	-	135G	CTY-O							14										859.66	859.59	0.0050
0010	135I	-	135	CTY-O	57																860.50	859.93	0.0100
0010	136	-	136C	CTY-O			23														860.20	860.12	0.0037
0010	136B	-	136	CTY-O	11																860.45	860.40	0.0050
0010	136E	-	136D	CTY-O							10										862.30	862.10	0.0200
0010	137A	-	137B	CTY-O								7									861.28	861.21	0.0100
0010	137B	-	137	CTY-O								84									861.21	860.37	0.0100
0010	137C	-	137B	CTY-O								60									861.81	861.21	0.0100
0030	138A	-	138	ROGERS												56					852.67	852.50	0.0030
0030	138B	-	138A	ROGERS												150					854.92	852.67	0.0150
0030	139	-	139A	ROGERS										29						X	858.18	858.03	0.0050
0010	140A	-	140B	CTY-O							78										863.03	861.42	0.0207
0010	141	-	141B	CTY-O									19								862.42	862.16	0.0136
0010	141A	-	141	CTY-O							50										863.17	862.92	0.0050
0010	141C	-	141	CTY-O							10										862.97	862.92	0.0050
0010	141D	-	141C	CTY-O							6										863.00	862.97	0.0050
0010	142B	-	142C	CTY-O							7										865.14	865.12	0.0030
0010	142C	-	142	CTY-O	15																865.12	864.70	0.0286
0010	143A	-	143B	CTY-O							40										866.69	866.29	0.0100
0010	143B	-	143	CTY-O	7																866.29	866.22	0.0100
0010	143C	-	143	CTY-O	10																866.07	865.74	0.0317
0010	143E	-	143D	CTY-O							8										866.16	866.10	0.0066
0010	143F	-	143E	CTY-O	33																866.84	866.16	0.0209
0010	143G	-	143F	CTY-O	4																866.98	866.94	0.0090
0010	144	-	145	CTY-O			109														864.44	860.93	0.0321
0010	144A	-	144B	CTY-O							54										864.74	864.47	0.0050
0010	144B	-	144	CTY-O	6																864.47	864.44	0.0050
0010	145	-	146	CTY-O			221														860.83	858.81	0.0092
0010	145A	-	145	CTY-O							54										861.87	861.33	0.0100
0010	145B	-	145A	CTY-O															4		863.08	863.04	0.0100
0010	146	-	146C	CTY-O			14														858.71	858.64	0.0050
0010	146C	-	146B	CTY-O									4								858.54	858.43	0.0271
0010	150B	-	150	CTY-O		8															850.09	850.01	0.0100
0010	150C	-	150	CTY-O			13														850.19	849.93	0.0208
0010	150D	-	150	CTY-O							60										851.49	850.89	0.0100
0010	151	-	151A	CTY-O						9											846.46	846.40	0.0070
0010	151B	-	151A	CTY-O							7										847.97	847.90	0.0100
0010	151C	-	151	CTY-O			18														848.84	848.77	0.0041
0010	151D	-	151E	CTY-O							44										850.36	849.92	0.0100
SUBTOTAL CATEGORY 0010					156	8	398	0	13	9	610	158	23	8	0	0	0	0	4				
SUBTOTAL CATEGORY 0030					0	0	0	0	0	0	0	0	0	29	0	206	0	0	0				

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					STORM SEWER PIPES CONTINUED																	
					608.0312	608.0315	608.0318	608.0321	608.0324	608.0330	608.0412	608.0415	608.0418	608.0424	608.0430	608.0512	612.0204	612.0206	612.0208				
					STORM SEWER PIPE REINFORCED CONCRETE CLASS III						STORM SEWER PIPE REINFORCED CONCRETE CLASS IV					STORM SEWER PIPE REINFORCED CONCRETE CLASS V	PIPE UNDERDRAIN UNPERFORATED			JOINT TIES*	INLET	DISCHARGE	SLOPE
					12-INCH	15-INCH	18-INCH	21-INCH	24-INCH	30-INCH	12-INCH	15-INCH	18-INCH	24-INCH	30-INCH	12-INCH	4-INCH	6-INCH	8-INCH				
CATEGORY	FROM	-	TO	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	ELEVATION	ELEVATION	FT/FT
0010	151E	-	151	CTY-O								58									849.67	848.51	0.0200
0010	151F	-	151E	CTY-O		12															849.92	849.67	0.0200
0010	151G	-	151	CTY-O					8												848.43	848.40	0.0039
0010	152B	-	152C	CTY-O	13																847.97	847.84	0.0100
0010	152C	-	152	CTY-O							45										847.85	847.40	0.0100
0010	152D	-	152	CTY-O											7						845.94	845.87	0.0097
0010	153A	-	153	CTY-O							55										849.87	849.68	0.0035
0010	153B	-	153	CTY-O								24									850.05	849.93	0.0050
0010	153C	-	153B	CTY-O								48									850.29	850.05	0.0050
0010	154	-	155	CTY-O								18									848.96	848.87	0.0047
0010	154A	-	154	CTY-O							55										849.48	849.21	0.0049
0010	154B	-	154	CTY-O	13																849.29	849.21	0.0062
0010	156A	-	156B	CTY-O							39										847.28	847.08	0.0050
0010	156B	-	156	CTY-O							10										847.08	846.98	0.0098
0010	156D	-	156C	CTY-O	8																848.09	847.79	0.0365
0010	157B	-	157A	CTY-O	4																844.91	844.87	0.0100
SUBTOTAL CATEGORY 0010					38	12	0	0	8	0	204	148	0	0	7	0	0	0	0				
SUBTOTAL CATEGORY 0030					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
TOTAL ALL SHEETS CATEGORY 0010					628	351	634	40	123	9	1286	685	157	162	7	0	9	31	4				
TOTAL ALL SHEETS CATEGORY 0030					0	0	8	0	0	0	48	0	0	29	0	206	0	3	0				
GRAND TOTAL					628	351	642	40	123	9	1334	685	157	191	7	206	9	34	4				
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STORM SEWER STRUCTURES

CATEGORY	STRUC-TURE	STATION	OFFSET*	LOCATION	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1012 APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 12-INCH EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 15-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 24-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.2004 MAN-HOLES 4-FT DIAMETER EACH	611.2005 MAN-HOLES 5-FT DIAMETER EACH	611.2006 MAN-HOLES 6-FT DIAMETER EACH	611.2007 MAN-HOLES 7-FT DIAMETER EACH	611.2008 MAN-HOLES 8-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUST-ING INLET COVERS EACH	611.9705 SALVAGED MANHOLE COVERS EACH	611.9710 SALVAGED INLET COVERS EACH	650.4000 CONSTRUC-TION STAKING STORM SEWER EACH	RIM ** ELEVATION	INVERT *** ELEVATION	DEPTH **** FT
0010	101	152+02.40	2.84' LT	CTY-O																								1		866.53	859.75	6.01
0010	101A	152+04.00	15.50' LT	CTY-O								1										1							1	866.65	861.10	4.75
0010	101B	152+04.15	8.51' RT	CTY-O								1										1							1	866.42	861.07	4.56
0010	101C	152+05.26	16.43' RT	CTY-O	1																										861.54	
0010	102	152+07.10	41.80' LT	CTY-O																					1					866.63	860.73	4.66
0010	102A	152+06.43	56.50' LT	CTY-O								1										1							1	866.34	862.02	3.49
0010	103	152+09.64	52.50' RT	CTY-O								1									1								1	866.35	861.91	3.65
0010	103A	152+08.68	44.56' RT	CTY-O	1																										861.83	
0010	103C	151+67.27	60.28' RT	CTY-O	1																										862.41	
0010	103D	153+46.00	55.77' RT	CTY-O					1						1														1	867.92	862.78	3.90
0010	103E	154+66.74	54.67' RT	CTY-O																					1					872.31	866.43	4.85
0010	104	154+57.77	42.01' LT	CTY-O																					1					871.68	865.43	5.21
0010	104A	154+57.92	52.50' LT	CTY-O								1										1							1	871.48	865.71	4.77
0010	104B	154+58.50	15.50' LT	CTY-O								1										1							1	871.74	867.56	3.35
0010	104C	154+58.68	8.50' LT	CTY-O								1										1							1	871.29	867.65	2.63
0010	104D	154+58.98	2.69' RT	CTY-O																					1					871.51	868.01	2.26
0010	104E	154+79.25	45.27' RT	CTY-O	1																										868.60	
0010	104F	154+82.69	52.50' RT	CTY-O								1										1							1	872.52	868.67	3.02
0010	105	347+18.00	3.73' RT	CTY-D								1										1							1	882.52	878.35	3.17
0010	105A	347+18.00	1.43' LT	CTY-D								1										1							1	882.48	878.15	3.33
0010	105B	347+13.59	38.00' LT	CTY-D		1																							1		877.58	
0010	106	349+04.51	31.61' LT	CTY-D					1						1														1	883.86	875.42	7.45
0010	106B	348+96.75	33.49' LT	CTY-D	1																										874.88	
0010	106C	349+12.53	31.61' LT	CTY-D	1																										875.58	
0010	107	159+46.04	45.38' LT	CTY-O					1							1													1	890.31	883.05	6.27
0010	107A	352+23.25	37.61' LT	CTY-D								1									1								1	889.20	881.66	6.79
0010	107B	158+05.13	8.50' LT	CTY-O								1											1						1	887.79	884.26	2.72
0010	107C	158+05.20	15.50' LT	CTY-O								1											1						1	887.81	884.19	2.80
0010	107D	160+74.83	71.45' LT	CTY-O										2												1			1	888.50	885.83	2.68
0010	107E	159+94.93	56.50' LT	CTY-O								1									1								1	890.50	885.20	4.49
0010	108	354+17.22	36.16' LT	CTY-D					1									1											1	891.62	886.00	4.63
0010	108A	159+99.00	7.97' RT	CTY-O								1											1						1	891.43	888.15	2.45
0010	108B	159+99.00	14.03' RT	CTY-O								1											1						1	891.70	888.08	2.78
0010	108C	160+07.00	63.25' RT	CTY-O										1												1			1	889.79	887.33	2.65
0010	108D	159+74.50	59.61' RT	CTY-O								1									1								1	890.92	886.98	2.94
0010	108E	354+09.69	50.00' LT	CTY-D								1									1								1	891.20	887.02	3.37
0010	108F	354+34.00	13.50' RT	CTY-D								1											1						1	891.30	888.09	2.38
0010	108G	354+34.00	18.80' RT	CTY-D								1											1						1	891.21	888.12	2.26
0010	108H	354+34.00	49.50' RT	CTY-D								1											1						1	890.77	888.27	1.67
0010	109	357+40.00	44.83' LT	CTY-D					1						1														1	895.58	887.97	6.59
0010	109A	357+32.00	44.62' LT	CTY-D	1																										887.95	
0010	109B	357+47.99	45.05' LT	CTY-D	1																										887.98	
0010	109C	357+40.00	38.44' LT	CTY-D								1											1						1	895.19	891.77	2.61
0010	109D	357+44.27	7.51' LT	CTY-D								1											1						1	895.80	891.74	3.06
0010	109E	357+44.27	10.89' RT	CTY-D								1											1						1	895.69	892.02	2.85
				SUBTOTAL CATEGORY 0010	8	1	0	0	5	0	0	24	0	3	3	1	0	1	0	0	5	0	19	0	2	4	0	0	1	32			
				SUBTOTAL CATEGORY 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

REMARKS:

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**RIM ELEV IS AT THE INLET COVER FLANGE LOCATION

***FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES CONTINUED

					520.8000	522.1012	522.1015	522.1024	611.0530	611.0606	611.0612	611.0624	611.0639	611.0642	611.2004	611.2005	611.2006	611.2007	611.2008	611.3003	611.3004	611.3220	611.3230	611.3901	611.3902	611.8110	611.8115	611.9705	611.9710	650.4000			
CATEGORY	STRUC-TURE	STATION	OFFSET*	LOCATION	CONCRETE COLLARS FOR PIPE	APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 12-INCH	APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 15-INCH	APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 24-INCH	MANHOLE COVERS TYPE J	INLET COVERS TYPE B	INLET COVERS TYPE C	INLET COVERS TYPE H	INLET COVERS TYPE H-S	INLET COVERS TYPE MS	MAN-HOLES 4-FT DIAMETER	MAN-HOLES 5-FT DIAMETER	MAN-HOLES 6-FT DIAMETER	MAN-HOLES 7-FT DIAMETER	MAN-HOLES 8-FT DIAMETER	INLETS 3-FT DIAMETER	INLETS 4-FT DIAMETER	INLETS 2X2-FT	INLETS 2X3-FT	INLETS MEDIAN 1 GRATE	INLETS MEDIAN 2 GRATE	ADJUSTING MANHOLE COVERS	ADJUST-ING INLET COVERS	SALVAGED MANHOLE COVERS	SALVAGED INLET COVERS	CONSTRUC-TION STAKING STORM SEWER	RIM **	INVERT ***	DEPTH ****
					EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	ELEVATION	ELEVATION	FT
0010	109F	357+44.27	39.93' RT	CTY-D								1											1							1	895.36	892.17	2.38
0010	110	358+72.00	48.50' LT	CTY-D					1						1															1	893.69	888.28	4.38
0010	110A	358+75.00	58.00' LT	CTY-D										2											1					1	891.80	888.48	3.53
0010	111	164+20.46	5.10' RT	CTY-O																						1					892.24	887.78	3.23
0010	111B	163+56.05	86.40' RT	CTY-O	1																											890.08	
0010	111C	163+50.81	86.33' RT	CTY-O										1										1						1	892.10	890.02	2.08
0010	111D	163+45.00	63.07' RT	CTY-O									1								1									1	892.84	889.84	2.00
0010	112	165+64.54	5.55' RT	CTY-O					1						1															1	888.15	884.24	2.87
0010	112A	165+56.72	51.70' LT	CTY-O								1											1							1	888.22	884.86	2.36
0010	112B	165+63.03	5.53' LT	CTY-O						1											1									1	888.31	884.80	2.35
0010	112C	165+34.46	5.45' RT	CTY-O								1									1									1	888.98	885.30	2.89
0010	112D	165+61.94	51.71' RT	CTY-O								1											1							1	888.13	884.97	2.32
0010	113	167+53.89	2.00' RT	CTY-O								1							1											1	883.23	876.83	5.65
0010	113A	167+56.87	51.50' LT	CTY-O																							1				882.97	877.73	4.23
0010	113B	167+55.93	20.50' LT	CTY-O	1																											877.49	
0010	113C	167+55.69	12.50' LT	CTY-O								1											1							1	883.24	877.22	5.02
0010	113D	167+93.98	9.05' LT	CTY-O								1											1							1	882.13	877.96	3.17
0010	113E	167+45.90	2.15' RT	CTY-O	1																											877.57	
0010	113F	167+58.23	8.53' RT	CTY-O	1																											876.90	
0010	113G	167+84.40	47.85' RT	CTY-O	1																											877.00	
0010	113H	167+88.79	54.54' RT	CTY-O								1									1									1	882.38	877.02	4.59
0010	113I	168+15.33	69.90' RT	CTY-O									1								1									1	881.72	877.42	3.51
0010	113J	168+10.88	78.47' RT	CTY-O			1																							1	880.24	0.07	1.13
0010	113K	168+55.70	81.50' RT	CTY-O			1																							1		878.60	
0010	114	170+10.82	5.86' RT	CTY-O																						1					879.77	874.24	4.54
0010	114B	170+12.73	54.50' LT	CTY-O								1											1							1	878.17	873.50	3.92
0010	114C	170+12.61	46.51' LT	CTY-O	1																											873.85	
0010	114D	170+12.08	8.51' LT	CTY-O	1																											874.19	
0010	114E	170+11.96	0.50' LT	CTY-O								1									1									1	878.30	874.22	3.33
0010	114F	170+12.58	12.50' RT	CTY-O								1									1									1	880.43	875.25	4.35
0010	114G	170+15.20	20.06' RT	CTY-O	1																											875.92	
0010	114H	170+23.49	43.98' RT	CTY-O	1																											877.26	
0010	114I	170+26.10	51.50' RT	CTY-O								1											1							1	880.11	877.51	1.59
0010	115	172+57.74	5.44' LT	CTY-O																						1					877.27	872.56	3.68
0010	115A	172+58.10	51.50' LT	CTY-O																							1				876.02	872.73	2.29
0010	115B	172+58.18	12.50' LT	CTY-O																							1				876.26	872.59	2.67
0010	115C	172+57.69	12.50' RT	CTY-O																							1				878.38	874.67	2.88
0010	115D	172+58.53	51.50' RT	CTY-O																							1				878.13	874.86	2.44
0010	116	175+52.00	4.88' LT	CTY-O						1						1														1	872.66	869.35	2.18
0010	116B	175+78.99	51.52' LT	CTY-O																							1				871.78	868.20	2.58
0010	116C	175+59.31	19.31' LT	CTY-O	1																											869.08	
0010	116D	175+55.00	12.50' LT	CTY-O								1											1							1	872.42	868.83	2.60
0010	116E	175+54.00	12.50' RT	CTY-O								1											1							1	874.22	869.92	3.46
0010	116F	175+54.00	51.51' RT	CTY-O								1											1							1	873.96	870.32	2.81
0010	117B	180+48.12	51.93' RT	CTY-O	1																											860.75	
0010	118	180+56.10	51.66' RT	CTY-O					1								1													1	866.32	859.71	5.37
0010	118A	180+32.19	51.50' LT	CTY-O								1											1							1	864.41	861.54	2.03
0010	118B	180+31.71	12.50' LT	CTY-O								1											1							1	864.65	861.25	2.57
0010	118C	180+31.38	4.87' LT	CTY-O						1											1									1	864.82	861.02	2.46
0010	118D	180+30.69	12.50' RT	CTY-O																							1				867.07	860.96	5.27
				SUBTOTAL CATEGORY 0010	11	0	2	0	3	3	0	17	2	3	2	1	1	0	1	0	8	0	12	1	1	3	7	0	0	29			
				SUBTOTAL CATEGORY 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

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STORM SEWER STRUCTURES CONTINUED

					520.8000	522.1012	522.1015	522.1024	611.0530	611.0606	611.0612	611.0624	611.0639	611.0642	611.2004	611.2005	611.2006	611.2007	611.2008	611.3003	611.3004	611.3220	611.3230	611.3901	611.3902	611.8110	611.8115	611.9705	611.9710	650.4000			
CATEGORY	STRUC-TURE	STATION	OFFSET*	LOCATION	CONCRETE COLLARS FOR PIPE	APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 12-INCH	APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 15-INCH	APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 24-INCH	MANHOLE COVERS TYPE J	INLET COVERS TYPE B	INLET COVERS TYPE C	INLET COVERS TYPE H	INLET COVERS TYPE H-S	INLET COVERS TYPE MS	MAN-HOLES 4-FT DIAMETER	MAN-HOLES 5-FT DIAMETER	MAN-HOLES 6-FT DIAMETER	MAN-HOLES 7-FT DIAMETER	MAN-HOLES 8-FT DIAMETER	INLETS 3-FT DIAMETER	INLETS 4-FT DIAMETER	INLETS 2X2-FT	INLETS 2X3-FT	INLETS MEDIAN 1 GRATE	INLETS MEDIAN 2 GRATE	ADJUSTING MANHOLE COVERS	ADJUST-ING INLET COVERS	SALVAGED MANHOLE COVERS	SALVAGED INLET COVERS	CONSTRUC-TION STAKING STORM SEWER	RIM **	INVERT ***	DEPTH ****
					EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	ELEVATION	ELEVATION	FT
0010	118E	180+51.75	44.95' RT	CTY-O	1																											860.24	
0010	119A	180+83.74	79.35' RT	CTY-O								1					1													1	865.14	858.07	6.28
0010	119B	180+72.00	81.00' RT	CTY-O										1										1						1	864.01	858.85	5.15
0010	120	182+56.00	2.16' LT	CTY-O								1				1														1	863.87	854.67	8.45
0010	120A	182+50.58	8.05' LT	CTY-O	1																											854.59	
0010	120B	182+64.01	2.32' LT	CTY-O	1																											855.05	
0010	120C	182+58.39	5.46' RT	CTY-O	1																											856.00	
0010	121	183+46.00	4.01' LT	CTY-O								1					1													1	863.10	856.07	6.28
0010	121A	183+35.01	51.50' LT	CTY-O									1										1							1	861.92	858.14	2.94
0010	121B	183+49.98	51.50' LT	CTY-O									1										1							1	861.84	857.61	3.23
0010	121C	183+49.99	12.50' LT	CTY-O									1										1							1	862.18	857.21	4.15
0010	121D	183+38.00	3.85' LT	CTY-O	1																											855.99	
0010	122	183+75.02	4.35' LT	CTY-O								1				1														1	862.95	856.54	5.64
0010	122A	183+74.98	12.50' LT	CTY-O								1											1							1	862.33	858.16	3.17
0010	122B	183+67.02	4.26' LT	CTY-O	1																											856.48	
0010	122C	183+74.96	54.50' RT	CTY-O									1										1							1	863.13	858.49	3.82
0010	122D	183+35.70	54.50' RT	CTY-O								1											1							1	863.41	859.14	3.44
0010	123	184+54.00	5.50' LT	CTY-O								1									1									1	863.21	857.12	5.32
0010	123A	184+46.00	5.37' LT	CTY-O	1																											857.06	
0010	123B	184+61.99	5.36' LT	CTY-O	1																											857.20	
0010	123C	184+53.39	5.75' RT	CTY-O	1																											858.49	
0010	123D	184+51.75	47.89' RT	CTY-O	1																											860.20	
0010	123E	184+51.49	54.50' RT	CTY-O								1											1							1	863.48	860.47	2.18
0030	124	415+95.52	13.04' RT	LCL-LINCOLN																						1					853.51	847.18	5.29
0030	125	416+14.94	12.86' RT	LCL-LINCOLN					1						1															1	853.74	849.04	3.68
0030	125A	416+06.94	12.94' RT	LCL-LINCOLN	1																											848.89	
0030	125B	416+14.94	26.02' RT	LCL-LINCOLN								1											1							1	853.49	849.50	2.99
0030	126	417+20.75	11.88' RT	LCL-LINCOLN																						1					855.39	850.92	3.44
0030	126C	417+21.17	22.04' RT	LCL-LINCOLN	1																											852.12	
0030	126D	417+21.50	29.50' RT	LCL-LINCOLN								1											1							1	855.06	852.47	1.75
0030	126E	417+11.50	29.50' RT	LCL-LINCOLN								1											1							1	854.84	852.52	1.49
0030	127	419+70.76	12.72' RT	LCL-LINCOLN																						1					860.22	855.01	3.97
0030	127A	420+05.23	37.33' LT	LCL-LINCOLN							1									1										1	859.58	856.58	1.76
0030	127B	419+77.00	29.50' RT	LCL-LINCOLN								1											1							1	860.02	856.40	2.78
0010	128	186+51.63	2.91' LT	CTY-O																						1					863.43	857.80	4.62
0010	129	186+53.50	4.18' RT	CTY-O								1				1														1	863.61	858.61	4.17
0010	129A	186+75.09	12.50' RT	CTY-O									1										1							1	863.92	859.92	3.16
0010	129B	186+53.97	12.17' RT	CTY-O	1																											859.00	
0010	129C	186+56.27	51.50' RT	CTY-O																							1				863.78	860.22	2.56
0010	129D	186+74.99	51.50' RT	CTY-O									1										1							1	863.68	860.58	2.27
0010	130	187+08.86	5.82' LT	CTY-O					1						1															1	862.92	858.26	3.63
0010	130A	187+16.85	6.04' LT	CTY-O	1																											858.29	
0010	131	187+54.75	6.19' LT	CTY-O					1						1															1	862.62	858.39	3.20
0010	131A	187+56.74	54.50' LT	CTY-O								1											1							1	862.05	859.05	2.17
0010	132	188+50.00	5.74' RT	CTY-O					1						1															1	863.77	858.68	4.06
0010	132A	188+35.00	54.50' LT	CTY-O								1											1							1	861.67	859.33	1.34
0010	132B	188+49.84	54.12' LT	CTY-O									1										1							1	861.63	859.20	1.62
0010	132C	188+49.99	0.73' LT	CTY-O									1										1							1	861.99	858.93	2.25
0010	132D	188+65.00	2.60' LT	CTY-O								1											1							1	862.04	859.00	2.04
0010	132E	188+50.00	12.50' RT	CTY-O								1											1							1	864.76	859.44	4.49
0010	132F	188+50.00	51.50' RT	CTY-O								1											1							1	864.52	859.83	3.86
0010	133	190+75.18	0.00	CTY-O						1												1								1	863.24	860.83	1.08
0010	133A	190+74.99	12.50' RT	CTY-O									1										1							1	864.76	861.16	2.76
0010	133B	190+90.00	12.50' RT	CTY-O								1											1							1	864.78	861.07	2.71
0010	133C	190+75.00	54.50' RT	CTY-O									1										1							1	864.46	861.37	2.25
0010	133D	190+90.00	54.50' RT	CTY-O								1											1							1	864.48	861.38	2.10
0010	134	191+58.45	4.59' LT	CTY-O																							1				863.03	860.48	1.43
0010	134A	191+57.58	48.02' RT	CTY-O	1																											861.18	
				SUBTOTAL CATEGORY 0010	13	0	0	0	3	1	0	16	10	1	3	3	2	0	0	0	1	1	20	1	0	1	2	0	0	31			
				SUBTOTAL CATEGORY 0030	2	0	0	0	1	0	1	4	0	0	1	0	0	0	0	1	0	0	4	0	0	3	0	0	0	6			

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STORM SEWER STRUCTURES CONTINUED

CATEGORY	STRUCTURE	STATION	OFFSET*	LOCATION	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	611.9705 SALVAGED MANHOLE COVERS EACH	611.9710 SALVAGED INLET COVERS EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM ** ELEVATION	INVERT *** ELEVATION	DEPTH **** FT
0010	134B	191+57.47	54.68' RT	CTY-O								1											1								1	864.77	861.26	2.70
0010	135	192+88.78	3.32' LT	CTY-O																						1						863.99	858.93	4.07
0010	135B	192+87.87	55.50' LT	CTY-O	1																												858.23	
0010	135C	192+88.12	51.50' LT	CTY-O								1				1															1	862.07	858.23	3.09
0010	135D	192+74.99	51.50' LT	CTY-O									1												1						1	861.94	859.30	1.82
0010	135E	192+88.18	47.51' LT	CTY-O	1																												858.27	
0010	135F	192+88.62	16.49' LT	CTY-O	1																												858.55	
0010	135G	192+88.68	12.50' LT	CTY-O								1				1															1	862.37	858.59	3.03
0010	135H	192+74.99	12.50' LT	CTY-O									1												1						1	862.30	859.66	1.81
0010	135I	192+79.00	53.01' RT	CTY-O									1												1						1	865.09	860.33	3.76
0010	136	194+97.88	5.50' LT	CTY-O								1					1														1	865.30	860.20	4.31
0010	136A	195+06.58	51.50' LT	CTY-O																								1				863.87	860.28	2.58
0010	136B	195+05.95	12.50' LT	CTY-O								1										1									1	864.10	860.28	2.82
0010	136C	194+75.00	4.79' LT	CTY-O								1										1									1	865.10	860.12	4.19
0010	136D	194+59.88	51.50' RT	CTY-O																								1				865.41	861.27	3.14
0010	136E	194+49.67	51.50' RT	CTY-O									1												1						1	865.32	862.30	2.18
0010	137	197+58.77	5.53' LT	CTY-O																									1			865.88	859.62	5.27
0010	137A	196+74.98	12.50' LT	CTY-O								1													1						1	865.23	861.09	3.14
0010	137B	196+75.01	5.50' LT	CTY-O									1												1						1	865.31	861.21	3.29
0010	137C	196+75.03	54.50' RT	CTY-O									1												1						1	865.55	861.62	2.93
0030	138	445+00.00	30.50' LT	LCL-ROGERS-W		1																									1		852.50	
0030	138A	445+55.56	29.60' LT	LCL-ROGERS-W								1													1						1	855.29	852.50	1.79
0030	138B	447+05.43	27.48' LT	LCL-ROGERS-W								1													1						1	859.18	854.75	3.43
0030	139	448+25.00	34.57' RT	LCL-ROGERS-W					1						1																1	861.89	858.18	2.72
0030	139A	447+99.09	48.48' RT	LCL-ROGERS-W				1																							1	860.28	0.01	2.00
0010	140	197+71.26	70.75' RT	CTY-O																						1						866.65	860.66	4.96
0010	140A	198+56.54	60.87' RT	CTY-O									1									1									1	866.17	863.03	2.31
0010	140B	197+81.33	79.52' RT	CTY-O								1										1			1						1	866.35	860.59	4.76
0010	141	198+90.87	4.50' LT	CTY-O					1						1																1	866.61	862.42	3.16
0010	141A	198+95.83	54.53' LT	CTY-O								1													1						1	866.14	862.98	2.16
0010	141B	198+71.94	4.96' LT	CTY-O	1																												862.16	
0010	141C	198+91.21	5.45' RT	CTY-O								1													1						1	866.68	862.80	2.87
0010	141D	198+91.41	11.24' RT	CTY-O								1													1						1	866.85	862.83	3.02
0010	142	201+49.07	3.20' RT	CTY-O																								1				868.43	864.70	2.57
0010	142A	201+58.33	51.50' LT	CTY-O																								1				868.29	865.25	2.21
0010	142B	201+57.48	15.69' LT	CTY-O	1																												865.14	
0010	142C	201+57.32	9.07' LT	CTY-O								1										1									1	868.49	865.12	2.53
0010	142D	201+56.52	12.50' RT	CTY-O																								1				869.22	865.19	3.03
0010	142E	201+57.37	51.50' RT	CTY-O																								1				868.99	865.63	2.53
0010	143	205+82.78	4.72' LT	CTY-O																									1			870.78	865.52	4.22
0010	143A	205+88.80	51.50' LT	CTY-O								1													1						1	871.09	866.69	3.56
0010	143B	205+84.71	11.48' LT	CTY-O								1													1						1	870.11	866.29	2.99
0010	143C	205+73.77	0.50' RT	CTY-O								1										1									1	870.57	866.07	3.66
0010	143D	206+05.81	48.84' RT	CTY-O	1																												866.10	
0010	143E	206+08.91	55.85' RT	CTY-O									1									1									1	869.66	866.16	2.67
0010	143F	206+22.41	85.82' RT	CTY-O										1												1					1	869.43	866.67	2.75
0010	143G	206+26.47	86.23' RT	CTY-O	1																												866.98	
0010	144	208+05.69	5.10' RT	CTY-O																									1			867.84	864.44	2.37
0010	144A	208+05.50	54.50' LT	CTY-O								1													1						1	867.72	864.74	2.14
0010	144B	208+05.46	0.50' LT	CTY-O								1													1						1	866.96	864.47	1.66
				SUBTOTAL CATEGORY 0010	7	0	0	0	1	0	0	17	8	1	1	2	1	0	0	0	7	0	15	1	0	2	6	3	0	27			
				SUBTOTAL CATEGORY 0030	0	1	0	1	1	0	0	2	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	5			

REMARKS:

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STORM SEWER STRUCTURES CONTINUED

CATEGORY	STRUC-TURE	STATION	OFFSET*	LOCATION	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1012 APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 12-INCH EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 15-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REIN-FORCED CONCRETE 24-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.2004 MAN-HOLES 4-FT DIAMETER EACH	611.2005 MAN-HOLES 5-FT DIAMETER EACH	611.2006 MAN-HOLES 6-FT DIAMETER EACH	611.2007 MAN-HOLES 7-FT DIAMETER EACH	611.2008 MAN-HOLES 8-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUST-ING INLET COVERS EACH	611.9705 SALVAGED MANHOLE COVERS EACH	611.9710 SALVAGED INLET COVERS EACH	650.4000 CONSTRUC-TION STAKING STORM SEWER EACH	RIM ** ELEVATION	INVERT *** ELEVATION	DEPTH **** FT
0010	145	209+14.84	1.97' LT	CTY-O								1									1									1	864.65	860.83	3.03
0010	145A	209+09.47	51.50' RT	CTY-O								1											1							1	865.16	861.70	2.46
0010	146	211+35.56	1.06' RT	CTY-O										1										1						1	861.36	858.71	2.86
0010	146B	211+36.84	16.46' LT	CTY-O	1																											858.43	
0010	146C	211+36.55	12.50' LT	CTY-O								1											1							1	861.58	858.54	2.25
0010	149	214+13.02	3.19' LT	CTY-O						1																					858.25	854.81	2.31
0010	149A	213+82.91	51.50' LT	CTY-O																							1				858.06	855.06	2.00
0010	149B	214+04.16	10.27' RT	CTY-O								1											1							1	859.30	855.30	3.00
0010	150	216+48.10	5.91' LT	CTY-O								1					1													1	855.25	849.89	4.61
0010	150A	216+57.50	51.59' LT	CTY-O																							1				853.93	850.63	2.30
0010	150B	216+44.03	12.50' LT	CTY-O								1									1									1	854.83	850.09	3.92
0010	150C	216+35.32	5.86' LT	CTY-O	1																											850.19	
0010	150D	216+45.09	54.50' RT	CTY-O								1											1							1	856.74	851.33	4.41
0010	151	220+31.91	3.74' LT	CTY-O					1								1													1	853.15	846.46	5.74
0010	151A	220+31.89	12.29' LT	CTY-O									1																		851.87	846.28	4.88
0010	151B	220+24.98	12.50' LT	CTY-O									1										1							1	851.91	847.97	3.10
0010	151C	220+49.99	4.00' LT	CTY-O									1				1													1	853.08	848.84	3.44
0010	151D	220+75.04	54.50' RT	CTY-O									1										1							1	853.15	850.36	1.96
0010	151E	220+31.52	54.50' RT	CTY-O								1											1							1	853.30	849.67	2.82
0010	151F	220+26.00	65.60' RT	CTY-O										1										1						1	852.20	849.92	2.47
0010	151G	220+23.91	3.83' LT	CTY-O	1																											848.43	
0010	152	220+30.42	54.50' LT	CTY-O								1					1													1	850.99	845.87	4.41
0010	152B	220+75.00	67.00' LT	CTY-O										1										1						1	850.40	847.97	2.60
0010	152C	220+74.97	54.50' LT	CTY-O								1											1							1	851.30	847.85	2.62
0010	152D	220+30.68	47.11' LT	CTY-O	1																											845.94	
0010	153	222+55.00	2.51' LT	CTY-O					1						1															1	853.72	849.12	3.36
0010	153A	222+73.24	54.50' LT	CTY-O								1											1							1	852.78	849.71	2.08
0010	153B	222+74.02	12.20' RT	CTY-O								1									1									1	854.11	849.22	3.90
0010	153C	222+54.50	55.69' RT	CTY-O								1									1									1	853.62	849.86	2.76
0010	154	225+22.00	0.35' RT	CTY-O								1				1														1	852.71	848.96	2.94
0010	154A	225+22.00	54.50' LT	CTY-O								1											1							1	852.60	849.48	2.29
0010	154B	225+27.50	12.50' RT	CTY-O								1									1									1	853.86	849.29	3.74
0010	154C	225+07.97	51.50' RT	CTY-O																							1				853.72	850.53	2.19
0010	155	225+39.00	5.96' LT	CTY-O					1						1															1	852.71	847.34	4.14
0010	156	228+16.03	3.86' LT	CTY-O																							1				850.90	845.81	3.76
0010	156A	228+11.00	51.50' LT	CTY-O								1											1							1	850.57	847.11	2.46
0010	156B	228+11.00	12.48' LT	CTY-O								1											1							1	850.81	846.91	2.90
0010	156C	228+14.51	4.62' RT	CTY-O	1																											847.79	
0010	156D	228+13.12	12.50' RT	CTY-O								1											1							1	852.41	847.92	3.49
0010	156E	228+06.11	51.49' RT	CTY-O																							1				852.23	849.23	2.00
0010	157A	231+05.91	50.91' RT	CTY-O	1																											844.87	
0010	157B	231+05.88	54.94' RT	CTY-O								1											1							1	849.28	844.74	3.53
				SUBTOTAL CATEGORY 0010	6	0	0	0	3	1	0	20	4	3	2	1	4	0	0	0	5	0	14	3	0	0	5	0	0	29			
				SUBTOTAL CATEGORY 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				TOTAL ALL SHEETS CATEGORY 0010	45	1	2	0	15	5	0	94	24	11	11	8	8	1	1	0	26	1	80	6	3	10	20	3	1	148			
				TOTAL ALL SHEETS CATEGORY 0030	2	1	0	1	2	0	1	6	0	0	2	0	0	0	0	1	0	0	6	0	0	3	0	0	0	11			
				GRAND TOTAL	47	2	2	1	17	5	1	100	24	11	13	8	8	1	1	1	26	1	86	6	3	13	20	3	1	159			

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UNDERDRAIN ITEMS

CATEGORY	ROAD	STATION TO	STATION	* 310.0110 BASE AGGREGATE OPEN-GRADED TON	* 612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY
0010	CTH O (STAGE 1)					
		149+00 -	155+00	6	100	53
		155+00 -	161+00	7	120	64
		161+00 -	167+00	1	20	11
		167+00 -	173+00	10	180	95
		173+00 -	179+00	2	40	22
		179+00 -	184+50	13	220	117
		184+50 -	190+50	7	120	64
		190+50 -	196+50	13	220	117
		196+50 -	202+50	6	100	53
		202+50 -	208+50	2	40	22
		208+50 -	214+50	6	100	53
		214+50 -	220+50	6	100	53
		220+50 -	226+50	9	160	85
		226+50 -	232+50	2	40	22
	CTH D (STAGE 1)					
		342+00 -	347+75	2	40	22
	STAGE 1 SUBTOTAL					
				91	1,600	853
	CTH O (STAGE 2)					
		149+00 -	155+00	5	80	43
		155+00 -	161+00	7	120	64
		161+00 -	167+00	5	80	43
		167+00 -	173+00	9	160	85
		173+00 -	179+00	2	40	22
		179+00 -	184+50	7	120	64
		184+50 -	190+50	11	200	106
		190+50 -	196+50	7	120	64
		196+50 -	202+50	11	200	106
		202+50 -	208+50	1	20	11

UNDERDRAIN ITEMS (CONTINUED)

CATEGORY	ROAD	STATION TO	STATION	* 310.0110 BASE AGGREGATE OPEN-GRADED TON	* 612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY
0010	CTH O (STAGE 2)					
		208+50 -	214+50	8	140	74
		214+50 -	220+50	8	140	74
		220+50 -	226+50	5	80	43
		226+50 -	232+50	2	40	22
	CTH D (STAGE 2)					
		354+28 -	359+50	9	160	85
	STAGE 2 SUBTOTAL					
				97	1,700	906
	CTH O (STAGE 3)					
		202+50 -	208+50	2	40	22
			TOTAL 0010	190	3,340	1,781
0030	W LINCOLN AVE (STAGE 1)					
		415+00 -	420+72	3	40	22
	W ROGERS DR (STAGE 1)					
		422+00 -	449+03	3	40	22
	STAGE 1 SUBTOTAL					
				6	80	44
			TOTAL 0030	6	80	44
			PROJECT TOTAL	**196**	**3,420**	**1,825**

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

GUARDRAIL ITEMS

CATEGORY	ROAD	STATION TO	STATION	614.0397 GUARDRAIL MOW STRIP EMULSIFIED ASPHALT SY	614.2330 MGS GUARDRAIL 3 K LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
0010	CTH D (Stage 1)					
		342+00 -	347+75	238	488	2
		347+75 -	352+20	195	369	2
			TOTAL 0010	433	857	4
			PROJECT TOTAL	**433**	**857**	**4**

FENCE ITEMS

CATEGORY	ROAD	STATION TO	STATION	616.0204 FENCE CHAIN LINK 4-FT LF	616.0700.S FENCE SAFETY LF
0010	CTH D				
		347+75 -	352+20	224	---
			TOTAL 0010	224	0
0030	W ROGERS DR				
		442+00 -	449+03	---	58
			TOTAL 0030	0	58
			PROJECT TOTAL	**224**	**58**

3

FIELD OFFICE

CATEGORY	LOCATION	642.5401 FIELD OFFICE TYPE D EACH
0010		1
	TOTAL 0010	1
	PROJECT TOTAL	**1**

WATER/DUST CONTROL

CATEGORY	LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100 WATER MGAL
0010	CTH O, CTH D		
	EXCAVATION/DUST CONTROL	39,520	150
	BASE AGGREGATE COMPACTION	---	2,050
	TOTAL 0010	39,520	2,200
0030	*N* LINCOLN AVE, W ROGERS DR, W WOODVIEW DR		
	EXCAVATION/DUST CONTROL	---	20
	BASE AGGREGATE COMPACTION	---	230
	TOTAL 0030	0	250
	PROJECT TOTAL	**39,520**	**2,450**

3

HMA PAVEMENT

STATION TO STATION	465.0125 ASPHALTIC SURFACE TEMPORARY* TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH* TON
CTH-O - MOORLAND ROAD		
PRESTAGE	1,759	2,974
STAGE 1	78	132
STAGE 2	-	-
STAGE 3	-	-
TOTALS	1,837	3,106

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE PAVEMENT GAPS

STATION TO STATION	415.0210 CONCRETE PAVEMENT GAPS EACH
CTH-O - MOORLAND ROAD	
STAGE 1	7
STAGE 2	3
STAGE 3	-
TOTALS	10

SITE MOWING

CATEGORY	STATION TO STATION	SPV.0060.118 SITE MOWING EACH
CTH-O - MOORLAND ROAD		
0010	UNDISTRIBUTED	1
	TOTALS	1

ROCK BAGS

CATEGORY	STATION TO STATION	628.7570 ROCK BAGS EACH
CTH-O - MOORLAND ROAD		
0010	UNDISTRIBUTED	200
	TOTALS	200

MULCHING & SEEDING

CATEGORY	STATION TO STATION	627.0200 MULCHING SY	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	SPV.0085.101 SEEDING MIXTURE NO. 75 UPDATED LB	630.0400 SEEDING NURSE CROP* LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	630.0300 SEEDING BORROW PIT LB
CTH-O — MOORLAND ROAD									
0010	STAGE 1	-	71	5	1	42	-	49	-
0010	STAGE 2	-	-	-	-	-	-	-	-
0010	STAGE 3	-	-	-	-	-	-	-	-
0010	UNDISTRIBUTED	-	36	2	1	21	324	24	49
CTH-D — CLEVELAND AVE									
0010	STAGE 1	160	21	-	12	-	-	113	-
0010	STAGE 2	-	23	-	-	-	-	12	-
0010	STAGE 3	-	-	-	-	-	-	-	-
0010	UNDISTRIBUTED	80	22	-	6	-	118	62	-
LOCAL ROADS									
0030	STAGE 1	-	72	-	-	-	-	36	-
0030	STAGE 2	-	-	-	-	-	-	-	-
0030	STAGE 3	-	-	-	-	-	-	-	-
0030	UNDISTRIBUTED	-	36	-	-	-	38	18	-
	SUBTOTAL CATEGORY 0010	240	173	7	20	63	442	260	49
	SUBTOTAL CATEGORY 0030	0	108	0	0	0	38	54	0
	TOTALS	240	281	7	20	63	480	314	49

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

TOPSOIL

CATEGORY	STATION TO STATION	625.0100 TOPSOIL SY	628.6510 SOIL STABILIZER TYPE B ACRE
	CTH-O — MOORLAND ROAD		
0010	STAGE 1	9,784	-
0010	STAGE 2	7,194	-
0010	STAGE 3	7,043	-
0010	UNDISTRIBUTED	12,010	4
	CTH-D — CLEVELAND AVE		
0010	STAGE 1	5,710	-
0010	STAGE 2	2,706	-
0010	STAGE 3	-	-
0010	UNDISTRIBUTED	4,208	2
	LOCAL ROADS		
0030	STAGE 1	2,472	-
0030	STAGE 2	335	-
0030	STAGE 3	-	-
0030	UNDISTRIBUTED	1,403	1
	SUBTOTAL CATEGORY 0010	48,655	6
	SUBTOTAL CATEGORY 0030	4,210	1
	TOTALS	52,865	7

SILT FENCE

CATEGORY	STATION TO STATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
	CTH-O — MOORLAND ROAD		
0010	STAGE 1	2,291	2,291
0010	STAGE 2	141	141
0010	STAGE 3	-	-
0010	UNDISTRIBUTED	1,216	1,216
	CTH-D — CLEVELAND AVE		
0010	STAGE 1	347	347
0010	STAGE 2	258	258
0010	STAGE 3	-	-
0010	UNDISTRIBUTED	302	302
	LOCAL ROADS		
0030	STAGE 1	260	260
0030	STAGE 2	-	-
0030	STAGE 3	-	-
0030	UNDISTRIBUTED	130	130
	SUBTOTAL CATEGORY 0010	4,555	4,555
	SUBTOTAL CATEGORY 0030	390	390
	TOTALS	4,945	4,945

INLET PROTECTION

CATEGORY	STATION TO STATION	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
	CTH-O — MOORLAND ROAD				
0010	STAGE 1	90	10	4	99
0010	STAGE 2	71	10	2	93
0010	STAGE 3	-	-	-	-
0010	UNDISTRIBUTED	81	10	1	96
	CTH-D — CLEVELAND AVE				
0010	STAGE 1	7	-	-	7
0010	STAGE 2	4	-	-	4
0010	STAGE 3	-	-	-	-
0010	UNDISTRIBUTED	6	-	-	6
	LOCAL ROADS				
0030	STAGE 1	-	-	-	-
0030	STAGE 2	7	1	-	8
0030	STAGE 3	-	-	-	-
0030	UNDISTRIBUTED	4	1	-	4
	SUBTOTAL CATEGORY 0010	259	30	7	305
	SUBTOTAL CATEGORY 0030	11	2	7	12
	TOTALS	270	32	7	317

EROSION CONTROL MOBILIZATIONS

STATION TO STATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CTH-O - MOORLAND ROAD		
UNDISTRIBUTED	9	9
TOTALS	9	9

EROSION BALES

STATION TO STATION	628.1104 EROSION BALES EACH
CTH-O - MOORLAND ROAD	
UNDISTRIBUTED	20
TOTALS	20

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

SOD

CATEGORY	STATION TO STATION	629.0210 FERTILIZER TYPE B CWT	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
	CTH-O — MOORLAND ROAD			
0010	STAGE 1	6	85	7,607
0010	STAGE 2	5	81	7,194
0010	STAGE 3	4	79	7,043
0010	UNDISTRIBUTED	8	123	10,922
	CTH-D — CLEVELAND AVE			
0010	STAGE 1	4	6	501
0010	STAGE 2	2	25	2,193
0010	STAGE 3	-	-	-
0010	UNDISTRIBUTED	3	15	1,347
	LOCAL ROADS			
0030	STAGE 1	16	10	861
0030	STAGE 2	0	4	335
0030	STAGE 3	-	-	-
0030	UNDISTRIBUTED	8	7	598
	SUBTOTAL CATEGORY 0010	32	414	36,807
	SUBTOTAL CATEGORY 0030	24	21	1,794
	TOTALS	56	435	38,601

EROSION MATTING

CATEGORY	STATION TO STATION	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.2027 EROSION MAT CLASS II TYPE C SY
	CTH-O — MOORLAND ROAD		
0010	STAGE 1	2,176	-
0010	STAGE 2	-	-
0010	STAGE 3	-	-
0010	UNDISTRIBUTED	1,088	-
	CTH-D — CLEVELAND AVE		
0010	STAGE 1	4,566	483
0010	STAGE 2	513	-
0010	STAGE 3	-	-
0010	UNDISTRIBUTED	2,540	241
	LOCAL ROADS		
0030	STAGE 1	1,611	-
0030	STAGE 2	-	-
0030	STAGE 3	-	-
0030	UNDISTRIBUTED	805	-
	SUBTOTAL CATEGORY 0010	10,883	724
	SUBTOTAL CATEGORY 0030	2,416	0
	TOTALS	13,299	724

3

RIPRAP

CATEGORY	STATION TO STATION	606.0100 RIPRAP LIGHT CY	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE TYPE HR SY	645.0130 GEOTEXTILE TYPE R SF
	CTH-O — MOORLAND ROAD					
0010	STAGE 1	-	-	-	27	-
0010	STAGE 2	-	-	-	-	-
0010	STAGE 3	-	-	-	-	-
0010	UNDISTRIBUTED	-	-	-	-	-
	CTH-D — CLEVELAND AVE					
0010	STAGE 1	-	37	19	15	-
0010	STAGE 2	-	-	-	-	-
0010	STAGE 3	-	-	-	-	-
0010	UNDISTRIBUTED	-	19	-	-	-
	LOCAL ROADS					
0030	STAGE 1	9	-	-	-	27
0030	STAGE 2	-	-	-	-	-
0030	STAGE 3	-	-	-	-	-
0030	UNDISTRIBUTED	4	-	-	-	-
	SUBTOTAL CATEGORY 0010	0	56	19	42	0
	SUBTOTAL CATEGORY 0030	13	0	0	0	27
	TOTALS	13	56	19	42	27

DITCH CHECKS

CATEGORY	STATION TO STATION	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
	CTH-O — MOORLAND ROAD		
0010	STAGE 1	20	-
0010	STAGE 2	20	4
0010	STAGE 3	-	-
0010	UNDISTRIBUTED	150	4
	CTH-D — CLEVELAND AVE		
0010	STAGE 1	5	-
0010	STAGE 2	-	2
0010	STAGE 3	-	-
0010	UNDISTRIBUTED	50	2
	LOCAL ROADS		
0030	STAGE 1	20	-
0030	STAGE 2	-	-
0030	STAGE 3	-	-
0030	UNDISTRIBUTED	100	-
	SUBTOTAL CATEGORY 0010	245	12
	SUBTOTAL CATEGORY 0030	120	0
	TOTALS	365	12

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3

TRACKING PADS

STATION TO STATION	628.7560 TRACKING PADS EACH
CTH-O - MOORLAND ROAD	
STAGE 1	2
STAGE 2	2
STAGE 3	2
TOTALS	6

PIPE UNDERDRAIN

STATION TO STATION	310.0110 BASE AGGREGATE OPEN GRADED* TON	612.0106 PIPE UNDERDRAIN 6-INCH* LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH
CTH-O — MOORLAND ROAD			
STAGE 1	-	-	-
STAGE 2	-	-	-
STAGE 3	-	-	-
CTH-D — CLEVELAND AVE			
STAGE 1	3	27	1
STAGE 2	-	-	-
STAGE 3	-	-	-
TOTALS	3	27	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

MARKING REMOVAL

STATION TO STATION	646.9000 LINE 4-INCH LF	646.9100 LINE 8-INCH LF	646.9200 LINE WIDE LF
CTH-O - MOORLAND ROAD			
PRESTAGE	-	-	-
STAGE 1A	5,870	1,728	1,265
STAGE 1B	-	-	-
STAGE 2A	-	-	-
STAGE 2B	-	-	-
STAGE 3	-	-	-
TOTALS	5,870	1,728	1,265

3

TEMPORARY MARKING LINE

STAGE	643.3105 PAINT 4-INCH (WHITE) LF	643.3105 PAINT 4-INCH (YELLOW) LF	643.3150 REMOVABLE TAPE 4-INCH (WHITE) LF	643.3150 REMOVABLE TAPE 4-INCH (YELLOW) LF	643.3205 PAINT 8-INCH (WHITE) LF	643.3250 REMOVABLE TAPE 8-INCH LF	643.3805 STOP LINE PAINT 18-INCH LF	643.3850 STOP LINE REMOVABLE TAPE 18-INCH LF
CTH-O - MOORLAND ROAD								
PRESTAGE	-	-	567	-	568	-	-	-
STAGE 1 & 1A	8,939	15,766	2,589	855	1,542	362	279	-
STAGE 1B	1,151	2,032	909	610	426	321	214	51
STAGE 2 & 2A	-	-	3,398	17,981	-	2,256	-	340
STAGE 2B	-	-	1,294	1,182	-	609	-	320
STAGE 3	-	-	202	1,140	-	953	-	-
UNDISTRIBUTED	1,009	1,780	896	2,177	254	450	49	71
SUBTOTALS	11,099	19,578	9,855	23,945	2,790	4,951	542	782
TOTALS	30,677		33,800		2,790	4,951	542	782

TRAFFIC CONTROL SIGNS FIXED MESSAGE

CATEGORY	SIGN MESSAGE	SIGN DIMENSIONS** IN	NO. OF SIGNS** EACH	SIGN AREA** SF	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	COMMENTS
1000						
	W LINCOLN AVE	42 X 12	11	4	39	--
				TOTALS	39	

**FOR INFORMATION ONLY

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TRAFFIC CONTROL

STAGE	DURATION DAYS*	643.0300 TRAFFIC CONTROL DRUMS EACH*	643.0300 DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH*	643.0420 DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH*	643.0705 DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH*	643.0715 DAY	643.0810 TRAFFIC CONTROL CONNECTED ARROW BOARDS EACH*	643.0810 DAY	643.0900 TRAFFIC CONTROL SIGNS EACH*	643.0900 DAY	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH*	643.1050 DAY	643.1220 TRAFFIC CONTROL CONNECTED WORK ZONE START AND END LOCATION MARKERS EACH*	643.1220 DAY
CTH-O - MOORLAND ROAD																	
PRESTAGE	19	772	14,668	88	1,672	176	3,344	21	399	2	38	164	3,116	2	28	4	76
STAGE 1A	74	931	68,894	140	10,360	280	20,720	87	6,438	3	222	172	12,728	2	28	4	296
STAGE 1B	30	951	28,530	189	5,670	378	11,340	87	2,610	4	120	182	5,460	2	28	4	120
STAGE 2A	30	817	24,510	147	4,410	294	8,820	68	2,040	3	90	156	4,680	2	28	4	120
STAGE 2B	63	785	49,455	146	9,198	292	18,396	70	4,410	3	189	155	9,765	2	28	4	252
STAGE 3	15	291	4,365	33	495	66	990	45	675	3	45	54	810	2	28	-	-
STAGE 4	45	150	2,250	15	225	30	450	23	345	2	30	25	375	2	28	-	-
DETOURS																	
STAGE 1A	74	-	-	-	-	-	-	-	-	-	-	34	2,516	-	-	-	-
STAGE 1B	30	-	-	1	30	2	60	-	-	-	-	92	2,760	-	-	-	-
STAGE 2A	30	-	-	-	-	-	-	-	-	-	-	126	3,780	-	-	-	-
UNDISTRIBUTED																	
ALL STAGES	-	-	19,042	-	3,184	-	6,367	-	1,657	-	70	-	4,184	-	17	-	86
TOTALS	410	4,697	211,714	759	35,244	1,518	70,487	401	18,574	20	804	1,160	50,174	14	213	20	950

TRAFFIC CONTROL

STAGE	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
CTH-O - MOORLAND ROAD			
PRESTAGE	-	-	2
STAGE 1A	299	299	-
STAGE 1B	38	38	-
STAGE 2A	59	59	-
STAGE 2B	138	138	-
UNDISTRIBUTED	53	53	2
TOTALS	587	587	4

TEMPORARY PEDESTRIAN FACILITIES

STAGE	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH* TON	644.1605 TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD SF	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
CTH-O - MOORLAND ROAD				
PRESTAGE	-	-	-	-
STAGE 1A	1,297	33	64	293
STAGE 1B	-	-	81	279
STAGE 2A	-	-	41	233
STAGE 2B	-	-	21	144
STAGE 3	-	-	-	-
TOTALS	1,297	33	207	949

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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REMOVING SIGNS

SIGN #	SHEET #	SIGN CODE	SIGN MOUNTED ON SAME POST AS #	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	DESCRIPTION
R01-01	1 OF 21	---	-	-	1	1	STREET NAME SIGN
R01-02	1 OF 21	---	R01-01	-	1	-	STREET NAME SIGN
R01-03	1 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R01-04	1 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R01-05	1 OF 21	M1-5A	-	-	1	1	COUNTY MARKER
R01-06	1 OF 21	R3-7L	-	-	1	1	LEFT LANE MUST TURN LEFT
R01-07	1 OF 21	M1-5A	R01-06	-	1	-	COUNTY MARKER
M01-01	1 OF 21	R6-2R	-	1	-	-	ONE WAY RIGHT ARROW
M01-02	1 OF 21	R5-1	-	1	-	-	DO NOT ENTER
M01-03	1 OF 21	R4-7	-	1	-	-	KEEP RIGHT
M01-04	1 OF 21	R3-2	M01-03	1	-	-	NO LEFT TURN SYMBOL
M01-05	1 OF 21	R5-1	-	1	-	-	DO NOT ENTER
M01-06	1 OF 21	R3-1	-	1	-	-	NO RIGHT TURN SYMBOL
M01-07	1 OF 21	M2-1	-	1	-	-	JCT
M01-08	1 OF 21	M1-5A	M01-07	1	-	-	COUNTY MARKER
M01-09	1 OF 21	M2-1	-	1	-	-	JCT
M01-10	1 OF 21	M1-5A	M01-09	1	-	-	COUNTY MARKER
M01-11	1 OF 21	R5-1A	-	-	1	1	WRONG WAY
M01-12	1 OF 21	R5-1A	-	-	1	1	WRONG WAY
R02-01	2 OF 21	R7-52L	-	-	1	1	NO PARKING BETWEEN SIGNS - LEFT ARROW
R02-02	2 OF 21	J2-1	-	-	1	1	ROUTE TURN ASSEMBLY (1 HEAD PANEL)
R02-03	2 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R02-04	2 OF 21	---	-	-	1	1	USE 2 LANES ONLY
R02-05	2 OF 21	M1-94H	SIGNAL ARM	-	1	-	OVERHEAD STREET NAME SIGN
R02-06	2 OF 21	R7-52R	SIGNAL POLE	-	1	-	NO PARKING BETWEEN SIGNS - RIGHT ARROW
R02-07	2 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R02-08	2 OF 21	---	-	-	1	1	STREET NAME SIGN
R02-09	2 OF 21	---	R02-08	-	1	-	STREET NAME SIGN
R02-10	2 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R02-11	2 OF 21	R4-7	SIGNAL POLE	-	1	-	KEEP RIGHT
R02-12	2 OF 21	M1-5A	SIGNAL POLE	-	1	-	COUNTY MARKER
R02-13	2 OF 21	M6-4	SIGNAL POLE	-	1	-	DIRECTIONAL ARROWS LEFT - RIGHT
R02-14	2 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R02-15	2 OF 21	M1-94H	SIGNAL ARM	-	1	-	OVERHEAD STREET NAME SIGN
R02-16	2 OF 21	R7-52L	-	-	1	1	NO PARKING BETWEEN SIGNS - LEFT ARROW
R02-17	2 OF 21	M1-94H	SIGNAL ARM	-	1	-	OVERHEAD STREET NAME SIGN
R02-18	2 OF 21	R4-7	SIGNAL POLE	-	1	-	KEEP RIGHT
R02-19	2 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R02-20	2 OF 21	R4-7	SIGNAL POLE	-	1	-	KEEP RIGHT
R02-21	2 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R02-22	2 OF 21	M1-5A	LIGHT POLE	-	1	-	COUNTY MARKER
R02-23	2 OF 21	M6-4	LIGHT POLE	-	1	-	DIRECTIONAL ARROWS LEFT - RIGHT
R02-24	2 OF 21	---	-	-	1	1	ADOPT-A-HIGHWAY
R02-25	2 OF 21	---	-	-	1	1	STREET NAME SIGN
R02-26	2 OF 21	---	R02-25	-	1	-	STREET NAME SIGN
R02-27	2 OF 21	---	SIGNAL POLE	-	1	-	STREET NAME SIGN
R02-28	2 OF 21	M1-5A	SIGNAL POLE	-	1	-	COUNTY MARKER
R02-29	2 OF 21	M6-4	SIGNAL POLE	-	1	-	DIRECTIONAL ARROWS LEFT - RIGHT
R02-30	2 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R02-31	2 OF 21	R4-7	SIGNAL POLE	-	1	-	KEEP RIGHT
SUBTOTAL				**10**	**40**	**15**	

REMOVING SIGNS (CONT.)

SIGN #	SHEET #	SIGN CODE	SIGN MOUNTED ON SAME POST AS #	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	DESCRIPTION
R02-32	2 OF 21	R7-52R	SIGNAL POLE	-	1	-	NO PARKING BETWEEN SIGNS - RIGHT ARROW
R02-33	2 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R02-34	2 OF 21	R7-52R	SIGNAL POLE	-	1	-	NO PARKING BETWEEN SIGNS - RIGHT ARROW
R02-35	2 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R02-36	2 OF 21	M1-94H	SIGNAL ARM	-	1	-	OVERHEAD STREET NAME SIGN
R02-37	2 OF 21	R7-52L	SIGNAL POLE	-	1	-	NO PARKING BETWEEN SIGNS - LEFT ARROW
R02-38	2 OF 21	---	-	-	1	1	USE 2 LANES ONLY
R03-01	3 OF 21	R7-52D	-	-	1	1	NO PARKING BETWEEN SIGNS - DOUBLE ARROW
R03-02	3 OF 21	M1-5A	-	-	1	1	COUNTY MARKER
R03-03	3 OF 21	R7-52D	R03-02	-	1	-	NO PARKING BETWEEN SIGNS - DOUBLE ARROW
R03-04	3 OF 21	J2-1	-	-	1	1	ROUTE TURN ASSEMBLY (1 HEAD PANEL)
R03-05	3 OF 21	R7-52L	-	-	1	1	NO PARKING BETWEEN SIGNS - LEFT ARROW
R03-06	3 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R03-07	3 OF 21	---	R03-06	-	1	-	STREET NAME SIGN
R03-08	3 OF 21	---	R03-06	-	1	-	STREET NAME SIGN
R03-09	3 OF 21	R3-2	R03-06	-	1	-	NO LEFT TURN SYMBOL
R03-10	3 OF 21	R7-2D	-	-	1	1	NO PARKING (TIME) TO (TIME) - DOUBLE ARROW
R03-11	3 OF 21	R7-2D	-	-	1	1	NO PARKING (TIME) TO (TIME) - DOUBLE ARROW
R03-12	3 OF 21	R1-1	-	-	1	1	STOP
R03-13	3 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R03-14	3 OF 21	W3-3	R03-13	-	1	-	SIGNAL AHEAD
R03-15	3 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R03-16	3 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R03-17	3 OF 21	R7-52D	R03-16	-	1	-	NO PARKING BETWEEN SIGNS - DOUBLE ARROW
R03-18	3 OF 21	J1-1	-	-	1	1	JUNCTION OR END ASSEMBLY
R03-19	3 OF 21	---	R03-18	-	1	-	NO ENGINE BREAK
R03-20	3 OF 21	J1-1	-	-	1	1	JUNCTION OR END ASSEMBLY
R03-21	3 OF 21	M1-5A	R03-20	-	1	-	COUNTY MARKER
R03-22	3 OF 21	M1-5A	R03-18	-	1	-	COUNTY MARKER
R03-23	3 OF 21	---	-	-	1	2	ADOPT-A-HIGHWAY
R03-24	3 OF 21	---	R03-23	-	1	-	GARFIELD ACCOUNTING SVC.
R04-01	4 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R04-02	4 OF 21	R7-52R	-	-	1	1	NO PARKING BETWEEN SIGNS - RIGHT ARROW
R04-03	4 OF 21	R1-1	-	-	1	1	STOP
R04-04	4 OF 21	---	-	-	1	1	STREET NAME SIGN
R04-05	4 OF 21	---	R04-04	-	1	-	STREET NAME SIGN
R05-01	5 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R05-02	5 OF 21	---	-	-	1	1	STREET NAME SIGN
R05-03	5 OF 21	---	R05-02	-	1	-	STREET NAME SIGN
R05-04	5 OF 21	R1-1	-	-	1	1	STOP
R05-05	5 OF 21	R7-1R	-	-	1	1	NO PARKING ANY TIME - RIGHT ARROW
R05-06	5 OF 21	R7-1L	-	-	1	1	NO PARKING ANY TIME - LEFT ARROW
R05-07	5 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R05-08	5 OF 21	---	-	-	1	1	STREET NAME SIGN
R05-09	5 OF 21	---	R05-08	-	1	-	STREET NAME SIGN
R05-10	5 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R05-11	5 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R06-01	6 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R06-02	6 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R06-03	6 OF 21	---	-	-	1	1	STREET NAME SIGN
SUBTOTAL				**0**	**50**	**32**	

ALL ITEMS CATEGORY 0010

REMOVING SIGNS (CONT.)

SIGN #	SHEET #	SIGN CODE	SIGN MOUNTED ON SAME POST AS #	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	DESCRIPTION
R06-04	6 OF 21	---	R06-03	-	1	-	STREET NAME SIGN
R06-05	6 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R06-06	6 OF 21	R1-1	-	-	1	1	STOP
R06-07	6 OF 21	R3-7L	-	-	1	1	LEFT LANE MUST TURN LEFT
R06-08	6 OF 21	---	-	-	1	1	USE 2 LANES ONLY
R07-01	7 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R07-02	7 OF 21	M1-94H	SIGNAL ARM	-	1	-	OVERHEAD STREET NAME SIGN
R07-03	7 OF 21	---	SIGNAL POLE	-	1	-	STREET NAME SIGN
R07-04	7 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R07-05	7 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R07-06	7 OF 21	R5-2	-	-	1	1	NO TRUCKS SYMBOL
R07-07	7 OF 21	R4-7	SIGNAL POLE	-	1	-	KEEP RIGHT
R07-08	7 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R07-09	7 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R07-10	7 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R07-11	7 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R07-12	7 OF 21	R7-1L	R07-11	-	1	-	NO PARKING ANY TIME - LEFT ARROW
R07-13	7 OF 21	R4-7	SIGNAL POLE	-	1	-	KEEP RIGHT
R07-14	7 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R07-15	7 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R07-16	7 OF 21	M1-94H	SIGNAL ARM	-	1	-	OVERHEAD STREET NAME SIGN
R07-17	7 OF 21	---	-	-	1	1	USE 2 LANES ONLY
R07-18	7 OF 21	R3-7L	-	-	1	1	LEFT LANE MUST TURN LEFT
R08-01	8 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R08-02	8 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R08-03	8 OF 21	---	-	-	1	1	STREET NAME SIGN
R08-04	8 OF 21	---	R08-03	-	1	-	THE SANCTUARY
R08-05	8 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R08-06	8 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R08-07	8 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R08-08	8 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R08-09	8 OF 21	R3-7L	-	-	1	1	LEFT LANE MUST TURN LEFT
R09-01	9 OF 21	---	-	-	1	1	USE 2 LANES ONLY
R09-02	9 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R09-03	9 OF 21	---	-	-	1	1	STREET NAME SIGN
R09-04	9 OF 21	---	R09-03	-	1	-	STREET NAME SIGN
R09-05	9 OF 21	M1-94H	SIGNAL ARM	-	1	-	OVERHEAD STREET NAME SIGN
R09-06	9 OF 21	M1-94H	SIGNAL ARM	-	1	-	OVERHEAD STREET NAME SIGN
R09-07	9 OF 21	M1-94H	SIGNAL POLE	-	1	-	OVERHEAD STREET NAME SIGN
R09-08	9 OF 21	M1-94H	SIGNAL POLE	-	1	-	OVERHEAD STREET NAME SIGN
R09-09	9 OF 21	R4-7	SIGNAL POLE	-	1	-	KEEP RIGHT
R09-10	9 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R09-11	9 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R09-12	9 OF 21	R7-1R	-	-	1	1	NO PARKING ANY TIME - RIGHT ARROW
R09-13	9 OF 21	---	-	-	1	1	NO THRU TRUCKS
R09-14	9 OF 21	R4-7	SIGNAL POLE	-	1	-	KEEP RIGHT
R09-15	9 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R09-16	9 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R09-17	9 OF 21	R7-1L	R09-16	-	1	-	NO PARKING ANY TIME - LEFT ARROW
R09-18	9 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
SUBTOTAL				**0**	**50**	**23**	

REMOVING SIGNS (CONT.)

SIGN #	SHEET #	SIGN CODE	SIGN MOUNTED ON SAME POST AS #	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	DESCRIPTION
R09-19	9 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R09-20	9 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R09-21	9 OF 21	R4-7	SIGNAL POLE	-	1	-	KEEP RIGHT
R09-22	9 OF 21	R1-1F	SIGNAL POLE	-	1	-	STOP (FOLDING)
R09-23	9 OF 21	M1-94H	SIGNAL ARM	-	1	-	OVERHEAD STREET NAME SIGN
R09-24	9 OF 21	M1-94H	SIGNAL ARM	-	1	-	OVERHEAD STREET NAME SIGN
R09-25	9 OF 21	---	-	-	1	1	USE 2 LANES ONLY
R09-26	9 OF 21	R3-7L	-	-	1	1	LEFT LANE MUST TURN LEFT
R09-27	9 OF 21	---	-	-	1	1	NO ENGINE BREAK
R09-28	9 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R09-29	9 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R10-01	10 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R10-02	10 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R10-03	10 OF 21	---	-	-	1	1	ROGERS DR INDUSTRIAL PARK AHEAD
R10-04	10 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R10-05	10 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R10-06	10 OF 21	M1-94H	-	-	1	1	OVERHEAD STREET NAME SIGN
R10-07	10 OF 21	M1-94H	R10-06	-	1	-	OVERHEAD STREET NAME SIGN
R10-08	10 OF 21	R1-1	-	-	1	1	STOP
R10-09	10 OF 21	W10-1	-	-	1	1	RAILROAD CROSSING
R10-10	10 OF 21	W10-1	-	-	1	1	RAILROAD CROSSING
R10-11	10 OF 21	W11-15	-	-	1	1	TRAIL CROSSING (BIKE AND PED SYMBOL)
R10-12	10 OF 21	W11-15	-	-	1	1	TRAIL CROSSING (BIKE AND PED SYMBOL)
R10-13	10 OF 21	W16-9P	R10-16	-	1	-	AHEAD PLAQUE (YELLOW)
R10-14	10 OF 21	W16-9P	R10-17	-	1	-	AHEAD PLAQUE (YELLOW)
R10-15	10 OF 21	---	-	-	1	1	USE 2 LANES ONLY
R11-01	11 OF 21	R15-50	-	-	1	1	USE RIGHT LANE IF REQUIRED TO STOP
R11-02	11 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R11-03	11 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R11-04	11 OF 21	R1-1	-	-	1	1	STOP
R11-05	11 OF 21	---	R11-10	-	1	-	LOOK
R11-06	11 OF 21	R7-52D	-	-	1	1	NO PARKING BETWEEN SIGNS - DOUBLE ARROW
R11-07	11 OF 21	R7-52D	-	-	1	1	NO PARKING BETWEEN SIGNS - DOUBLE ARROW
R11-08	11 OF 21	W11-15	-	-	1	1	TRAIL CROSSING (BIKE AND PED SYMBOL)
R11-09	11 OF 21	W16-7L	R11-14	-	1	-	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
R11-10	11 OF 21	W11-15	-	-	1	1	TRAIL CROSSING (BIKE AND PED SYMBOL)
R11-11	11 OF 21	W16-7R	R11-16	-	1	-	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
R11-12	11 OF 21	R1-1	-	-	1	1	STOP
R11-13	11 OF 21	---	R11-18	-	1	-	LOOK
R11-14	11 OF 21	R7-52D	-	-	1	1	NO PARKING BETWEEN SIGNS - DOUBLE ARROW
R11-15	11 OF 21	R7-52D	-	-	1	1	NO PARKING BETWEEN SIGNS - DOUBLE ARROW
R11-16	11 OF 21	R15-50	-	-	1	1	USE RIGHT LANE IF REQUIRED TO STOP
R12-01	12 OF 21	---	-	-	1	1	USE 2 LANES ONLY
R12-02	12 OF 21	W10-1	-	-	1	1	RAILROAD CROSSING
R12-03	12 OF 21	W10-1	-	-	1	1	RAILROAD CROSSING
R12-04	12 OF 21	R1-1	-	-	1	1	STOP
R12-05	12 OF 21	W14-1	-	-	1	1	DEAD END
R12-06	12 OF 21	---	-	-	1	1	STREET NAME SIGN
R12-07	12 OF 21	---	R12-06	-	1	-	STREET NAME SIGN
R12-09	12 OF 21	R4-7	-	-	1	1	KEEP RIGHT
SUBTOTAL				**0**	**50**	**36**	

ALL ITEMS CATEGORY 0010

REMOVING SIGNS (CONT.)

SIGN #	SHEET #	SIGN CODE	SIGN MOUNTED ON SAME POST AS #	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	DESCRIPTION
R12-11	12 OF 21	W11-15	-	-	1	1	TRAIL CROSSING (BIKE AND PED SYMBOL)
R12-12	12 OF 21	W11-15	-	-	1	1	TRAIL CROSSING (BIKE AND PED SYMBOL)
R12-13	12 OF 21	W16-9P	R12-11	-	1	-	AHEAD PLAQUE (YELLOW)
R12-14	12 OF 21	W16-9P	R12-12	-	1	-	AHEAD PLAQUE (YELLOW)
R12-15	12 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R12-16	12 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R13-01	13 OF 21	R1-1	-	-	1	1	STOP
R13-02	13 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R13-03	13 OF 21	W14-2	-	-	1	1	NO OUTLET
R13-04	13 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R13-05	13 OF 21	---	-	-	1	1	STREET NAME SIGN
R13-06	13 OF 21	---	R13-05	-	1	-	STREET NAME SIGN
R13-07	13 OF 21	---	R13-05	-	1	-	STREET NAME SIGN
R13-08	13 OF 21	D12-5	-	-	1	1	TRAVEL INFO CALL 511
R13-09	13 OF 21	R1-1	-	-	1	1	STOP
R14-01	14 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R14-02	14 OF 21	---	R14-01	-	1	-	NO ENGINE BREAK
R14-03	14 OF 21	M1-5A	-	-	1	1	COUNTY MARKER
R14-04	14 OF 21	R2-1	R14-03	-	1	-	SPEED LIMIT ___ MPH
R14-05	14 OF 21	J1-1	-	-	1	2	JUNCTION OR END ASSEMBLY
R14-06	14 OF 21	---	R14-05	-	1	-	STREET NAME SIGN
R14-07	14 OF 21	J2-1	-	-	1	1	ROUTE TURN ASSEMBLY (1 HEAD PANEL)
R14-08	14 OF 21	J2-1	-	-	1	1	ROUTE TURN ASSEMBLY (1 HEAD PANEL)
R14-09	14 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R14-10	14 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R14-11	14 OF 21	I2-3	-	-	1	2	COMMUNITY POPULATION NAME SIGN (WITH NUMBER)
R14-12	14 OF 21	---	R14-11	-	1	-	STORM READY COMMUNITY
R14-13	14 OF 21	---	R14-11	-	1	-	THIS IS A D.A.R.E. COMMUNITY
R14-14	14 OF 21	---	R14-11	-	1	-	TREE CITY USA
R14-15	14 OF 21	---	R14-11	-	1	-	BIRD CITY WISCONSIN
R14-16	14 OF 21	M1-5A	-	-	1	1	COUNTY MARKER
R14-17	14 OF 21	---	R14-16	-	1	-	NO PARKING ALL CITY STREETS
R14-18	14 OF 21	R3-7L	-	-	1	1	LEFT LANE MUST TURN LEFT
R14-19	14 OF 21	M1-5A	R14-18	-	1	-	COUNTY MARKER
R14-20	14 OF 21	---	-	-	1	-	ADOPT-A-HIGHWAY
R14-21	14 OF 21	---	R14-20	-	1	-	GARFIELD ACCOUNTING SVC
R14-22	14 OF 21	W4-2R	-	-	1	1	LANE REDUCTION TRANSITION SYMBOL - [RIGHT LANE]
R17-01	15 OF 21	W5-60R	BEAM GUARD	-	1	-	BEAM GUARD REFLECTIVE END MARKER (RIGHT)
R17-02	15 OF 21	W5-60R	BEAM GUARD	-	1	-	BEAM GUARD REFLECTIVE END MARKER (RIGHT)
R17-03	15 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R17-04	15 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R17-05	15 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R17-06	15 OF 21	---	-	-	1	-	PAVED SHOULDER NOT FOR THROUGH TRAFFIC
R18-01	16 OF 21	W6-2	-	-	1	1	DIVIDED HIGHWAY ENDS SYMBOL
R18-02	16 OF 21	J1-1	-	-	1	1	JUNCTION OR END ASSEMBLY
R18-03	16 OF 21	W5-60R	BEAM GUARD	-	1	-	BEAM GUARD REFLECTIVE END MARKER (RIGHT)
R18-04	16 OF 21	R3-7L	-	-	1	1	LEFT LANE MUST TURN LEFT
R18-05	16 OF 21	R6-2R	R18-04	-	1	-	ONE WAY RIGHT ARROW
R18-06	16 OF 21	M1-5A	-	-	1	1	COUNTY MARKER
R18-07	16 OF 21	W4-2R	-	-	1	1	LANE REDUCTION TRANSITION SYMBOL - [RIGHT LANE]
SUBTOTAL				0	50	32	

REMOVING SIGNS (CONT.)

SIGN #	SHEET #	SIGN CODE	SIGN MOUNTED ON SAME POST AS #	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	DESCRIPTION
R18-08	16 OF 21	R3-7R	-	-	1	1	RIGHT LANE MUST TURN RIGHT
R19-01	17 OF 21	R6-2R	-	-	1	1	ONE WAY RIGHT ARROW
R19-02	17 OF 21	R3-7R	-	-	1	1	RIGHT LANE MUST TURN RIGHT
R19-03	17 OF 21	W4-2R	-	-	1	1	LANE REDUCTION TRANSITION SYMBOL - [RIGHT LANE]
R19-04	17 OF 21	R7-52D	-	-	1	1	NO PARKING BETWEEN SIGNS - DOUBLE ARROW
R19-05	17 OF 21	R3-7L	-	-	1	1	LEFT LANE MUST TURN LEFT
R19-06	17 OF 21	M1-5A	-	-	1	1	COUNTY MARKER
R19-07	17 OF 21	R7-52D	-	-	1	1	NO PARKING BETWEEN SIGNS - DOUBLE ARROW
R19-08	17 OF 21	R7-52D	-	-	1	1	NO PARKING BETWEEN SIGNS - DOUBLE ARROW
R19-09	17 OF 21	W6-2	-	-	1	1	DIVIDED HIGHWAY ENDS SYMBOL
R19-10	17 OF 21	R4-7	-	-	1	1	KEEP RIGHT
R19-11	17 OF 21	R2-1	-	-	1	1	SPEED LIMIT ___ MPH
R19-12	17 OF 21	---	R19-11	-	1	-	PAVED SHOULDER NOT FOR THROUGH TRAFFIC
R19-13	17 OF 21	W3-3	-	-	1	1	SIGNAL AHEAD
R19-14	17 OF 21	R7-52R	-	-	1	1	NO PARKING BETWEEN SIGNS - RIGHT ARROW
R20-01	18 OF 21	---	-	-	1	1	STREET NAME SIGN
R20-02	18 OF 21	---	R20-01	-	1	-	STREET NAME SIGN
R20-03	18 OF 21	W14-1	R20-01	-	1	-	DEAD END
R20-04	18 OF 21	R7-52L	-	-	1	1	NO PARKING BETWEEN SIGNS - LEFT ARROW
R20-05	18 OF 21	R1-1	-	-	1	1	STOP
R21-01	19 OF 21	R3-8FR	-	-	1	1	AHEAD-RIGHT, RIGHT ONLY
R21-02	19 OF 21	R7-1D	R21-01	-	1	-	NO PARKING ANY TIME - DOUBLE ARROW
R21-03	19 OF 21	R3-7R	-	-	1	1	RIGHT LANE MUST TURN RIGHT
R22-01	20 OF 21	M50-2	-	-	1	1	ROUTE MARKER PANEL - (2 FACES)
R23-01	21 OF 21	R7-1D	-	-	1	1	NO PARKING ANY TIME - DOUBLE ARROW
R23-02	21 OF 21	R7-1D	-	-	1	1	NO PARKING ANY TIME - DOUBLE ARROW
R23-03	21 OF 21	R7-1D	-	-	1	1	NO PARKING ANY TIME - DOUBLE ARROW
SUBTOTAL				0	27	23	
PROJECT TOTAL				10	267	161	

ALL ITEMS CATEGORY 0010

PERMANENT SIGNING

SIGN #	SIGN CODE	SHEET #	SIGN SIZE	SIGN SIZE W IN.	X	SIGN SIZE H IN.	* 637.2210 SIGNS TYPE II REFLECTIVE H SF	* 637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	SPV.0060.002 POSTS TUBULAR STEEL 1.75X1.75-INCH X 11-FT EACH	SPV.0060.003 POSTS TUBULAR STEEL 1.75X1.75-INCH X 12-FT EACH	SPV.0060.004 POSTS TUBULAR STEEL 1.75X1.75-INCH X 14-FT EACH	SPV.0060.005 POSTS TUBULAR STEEL 1.75X1.75-INCH X 16-FT EACH	SIGN MOUNTED ON SAME POST AS #	DESCRIPTION	NOTES
01-01	R3-20L	1 OF 21	2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
01-02	R3-8LAAR	1 OF 21	2M	72	X	30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
01-03	W3-3	1 OF 21	2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
01-04	W3-3	1 OF 21	2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
01-05	M1-5A	1 OF 21	2M	24	X	24	4	-	-	-	1	-	-	-	-	COUNTY MARKER	CTH O
01-06	M1-5A	1 OF 21	2M	24	X	24	4	-	-	-	1	-	-	-	-	COUNTY MARKER	CTH O
01-07	R4-4	1 OF 21	2M	36	X	30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
02-01	R4-4	2 OF 21	2M	36	X	30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
02-02	J2-1	2 OF 21	2M	24	X	57	9.5	-	-	1	-	-	-	-	-	ROUTE TURN ASSEMBLY (1 HEAD PANEL)	-
	M4-1	2 OF 21	2M	24	X	12	-	-	-	-	-	-	-	-	-	ALTERNATE MARKER	-
	M3-4	2 OF 21	2M	24	X	12	-	-	-	-	-	-	-	-	-	WEST CARDINAL ROUTE MARKER	-
	M1-1	2 OF 21	2M	24	X	24	-	-	-	-	-	-	-	-	-	INTERSTATE SHIELD	IH 94
	M6-1	2 OF 21	2M	21	X	21	-	-	-	-	-	-	-	-	-	ARROW - RIGHT, LEFT, OR AHEAD	AHEAD
02-03	R5-1A	2 OF 21	2M	42	X	30	8.75	-	-	-	-	-	-	-	02-02 BACK	WRONG WAY	-
02-04	R2-1	2 OF 21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
02-05	R3-52P	2 OF 21	2M	30	X	42	8.75	-	-	-	-	1	-	-	-	CURB LANE - PARKING BICYCLES AND RIGHT TURNS ONLY	-
02-06	R1-1F	2 OF 21	2M	36	X	36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
02-07	M6-4	2 OF 21	2M	21	X	21	3.06	-	-	-	-	-	-	-	02-06 BACK	DIRECTIONAL ARROWS LEFT - RIGHT	-
02-08	M1-5A	2 OF 21	2M	24	X	24	4	-	-	-	-	-	-	-	02-06 BACK	COUNTY MARKER	CTH D
02-09	R4-7	2 OF 21	2M	24	X	30	5	-	-	-	-	-	-	-	02-06 BACK	KEEP RIGHT	-
02-10	R1-1F	2 OF 21	2M	36	X	36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
02-11	R5-1	2 OF 21	2M	36	X	36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
02-12	R1-1F	2 OF 21	2M	36	X	36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
02-13	R5-1	2 OF 21	2M	36	X	36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
02-14	R1-1F	2 OF 21	2M	36	X	36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
02-15	M6-4	2 OF 21	2M	21	X	21	3.06	-	-	-	-	-	-	-	02-14	DIRECTIONAL ARROWS LEFT - RIGHT	-
02-16	R4-7	2 OF 21	2M	24	X	30	5	-	-	-	-	-	-	-	02-14 BACK	KEEP RIGHT	-
02-17	M1-5A	2 OF 21	2M	24	X	24	4	-	-	-	-	-	-	-	02-14 BACK	COUNTY MARKER	CTH O
02-18	R1-1F	2 OF 21	2M	36	X	36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
02-19	R4-7	2 OF 21	2M	24	X	30	5	-	-	-	-	-	-	-	02-18 BACK	KEEP RIGHT	-
02-20	M1-5A	2 OF 21	2M	24	X	24	4	-	-	-	-	-	-	-	02-18 BACK	COUNTY MARKER	CTH O
02-21	M6-4	2 OF 21	2M	21	X	21	3.06	-	-	-	-	-	-	-	02-18	DIRECTIONAL ARROWS LEFT - RIGHT	-
02-22	R7-52R	2 OF 21	2M	24	X	30	5	-	-	-	-	-	-	-	SIGNAL POLE	NO PARKING BETWEEN SIGNS - RIGHT ARROW	-
02-23	R1-1F	2 OF 21	2M	36	X	36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
02-24	R5-1	2 OF 21	2M	36	X	36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
02-25	R5-1	2 OF 21	2M	36	X	36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
02-26	R1-1F	2 OF 21	2M	36	X	36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
02-27	R1-1F	2 OF 21	2M	36	X	36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
02-28	R4-7	2 OF 21	2M	24	X	30	5	-	-	-	-	-	-	-	02-27 BACK	KEEP RIGHT	-
02-29	M1-5A	2 OF 21	2M	24	X	24	4	-	-	-	-	-	-	-	02-27 BACK	COUNTY MARKER	CTH D
02-30	M6-4	2 OF 21	2M	21	X	21	3.06	-	-	-	-	-	-	-	02-27	DIRECTIONAL ARROWS LEFT - RIGHT	-
02-31	R3-52P	2 OF 21	2M	30	X	42	-	-	-	-	-	-	-	-	-	CURB LANE - PARKING BICYCLES AND RIGHT TURNS ONLY	-
02-32	R6-2R	2 OF 21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	-
02-33	M1-94H	2 OF 21	2M	114	X	24	19	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
02-34	M1-94H	2 OF 21	2M	102	X	24	17	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
02-35	M1-94H	2 OF 21	2M	102	X	24	17	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
02-36	M1-94H	2 OF 21	2M	114	X	24	19	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
03-01	R6-2R	3 OF 21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	-
03-02	R5-1A	3 OF 21	2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
03-03	R3-8LAAR	3 OF 21	2M	72	X	30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
SUBTOTAL							**278.49**	**59.68**	**18**	**1**	**10**	**13**	**2**	**0**			ALL ITEMS CATEGORY 0010

PERMANENT SIGNING (CONT.)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE W IN.	X	SIGN SIZE H IN.	* 637.2210 SIGNS TYPE II REFLECTIVE H SF	* 637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	SPV.0060.002 POSTS TUBULAR STEEL 1.75X1.75-INCH X 11-FT EACH	SPV.0060.003 POSTS TUBULAR STEEL 1.75X1.75-INCH X 12-FT EACH	SPV.0060.004 POSTS TUBULAR STEEL 1.75X1.75-INCH X 14-FT EACH	SPV.0060.005 POSTS TUBULAR STEEL 1.75X1.75-INCH X 16-FT EACH	SIGN MOUNTED ON SAME POST AS #	DESCRIPTION	NOTES
03-04	M1-5A	3 OF 21 2M	24	X	24	4	-	-	-	1	-	-	-	-	COUNTY MARKER	-
03-05	J2-1	3 OF 21 2M	24	X	57	9.5	-	-	1	-	-	-	-	-	ROUTE TURN ASSEMBLY (1 HEAD PANEL)	-
	M4-1	3 OF 21 2M	24	X	12	-	-	-	-	-	-	-	-	-	ALTERNATE MARKER	-
	M3-2	3 OF 21 2M	24	X	12	-	-	-	-	-	-	-	-	-	EAST CARDINAL ROUTE MARKER	-
	M1-1	3 OF 21 2M	24	X	24	-	-	-	-	-	-	-	-	-	INTERSTATE SHIELD	IH 94
	M6-1	3 OF 21 2M	21	X	21	-	-	-	-	-	-	-	-	-	ARROW - RIGHT, LEFT, OR AHEAD	AHEAD
03-06	R5-1	3 OF 21 2M	36	X	36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
03-07	R7-2D	3 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	NO PARKING (TIME) TO (TIME) - DOUBLE ARROW	-
03-08	R4-4	3 OF 21 2M	36	X	30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
03-09	R7-2D	3 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	NO PARKING (TIME) TO (TIME) - DOUBLE ARROW	-
03-10	R1-1	3 OF 21 2M	36	X	36	7.46	-	-	-	-	-	2	-	-	STOP	-
03-11	R3-53R	3 OF 21 2M	24	X	30	5	-	-	-	-	-	-	-	03-10	RIGHT TURN ONLY	-
03-12	R2-1	3 OF 21 2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
03-13	R3-20L	3 OF 21 2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
03-14	R3-20L	3 OF 21 2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
03-15	R2-1	3 OF 21 2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	-
03-16	R6-2R	3 OF 21 2M	30	X	36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	-
03-17	W3-3	3 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
03-18	W3-3	3 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
03-19	M2-1	3 OF 21 2M	21	X	15	2.19	-	-	-	1	-	-	-	-	JCT	-
03-20	M2-1	3 OF 21 2M	21	X	15	2.19	-	-	-	1	-	-	-	-	JCT	-
03-21	M1-5A	3 OF 21 2M	24	X	24	4	-	-	-	-	-	-	-	03-20	COUNTY MARKER	-
03-22	M1-5A	3 OF 21 2M	24	X	24	4	-	-	-	-	-	-	-	03-19	COUNTY MARKER	-
03-23	R4-4	3 OF 21 2M	36	X	30	7.5	-	-	-	-	-	-	-	03-24 BACK	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
03-24	R5-1A	3 OF 21 2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
03-25	R6-2R	3 OF 21 2M	30	X	36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	-
03-26	R4-4	3 OF 21 2M	36	X	30	7.5	-	-	-	-	-	-	-	03-27 BACK	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
03-27	R5-1A	3 OF 21 2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
04-01	R4-7	4 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
04-02	R5-1	4 OF 21 2M	36	X	36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
04-03	R1-1	4 OF 21 2M	36	X	36	7.46	-	-	-	-	-	2	-	-	STOP	-
04-04	R6-3	4 OF 21 2M	30	X	24	5	-	-	-	-	-	-	-	04-03	DIVIDED HIGHWAY CROSSING SIGN AND INTERSECTION	-
04-05	R4-7	4 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
04-06	R5-1	4 OF 21 2M	36	X	36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
04-07	R3-52P	4 OF 21 2M	30	X	42	8.75	-	-	-	-	1	-	-	-	CURB LANE - PARKING BICYCLES AND RIGHT TURNS ONLY	-
04-08	R3-20L	4 OF 21 2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
04-09	R4-4	4 OF 21 2M	36	X	30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
04-10	R5-1A	4 OF 21 2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
05-01	R2-1	5 OF 21 2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
05-02	R3-53R	5 OF 21 2M	24	X	30	5	-	-	-	-	-	2	-	-	RIGHT TURN ONLY	-
05-03	R1-1	5 OF 21 2M	36	X	36	7.46	-	-	-	-	-	-	-	05-02	STOP	-
05-04	R7-1R	5 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	NO PARKING ANY TIME - RIGHT ARROW	-
05-05	R6-2R	5 OF 21 2M	30	X	36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	-
05-06	R7-1L	5 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	NO PARKING ANY TIME - LEFT ARROW	-
05-07	R5-1	5 OF 21 2M	36	X	36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
05-08	R2-1	5 OF 21 2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
05-09	R2-1	5 OF 21 2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
05-10	R4-4	5 OF 21 2M	36	X	30	7.5	-	-	-	-	-	-	-	05-11 BACK	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
05-11	R5-1A	5 OF 21 2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
05-12	R5-1A	5 OF 21 2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
SUBTOTAL						**297.26**	**0**	**18**	**1**	**21**	**16**	**8**	**0**			ALL ITEMS CATEGORY 0010

PERMANENT SIGNING (CONT.)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE W IN. X H IN.	* 637.2210 SIGNS TYPE II REFLECTIVE H SF	* 637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	SPV.0060.002 POSTS TUBULAR STEEL 1.75X1.75-INCH X 11-FT EACH	SPV.0060.003 POSTS TUBULAR STEEL 1.75X1.75-INCH X 12-FT EACH	SPV.0060.004 POSTS TUBULAR STEEL 1.75X1.75-INCH X 14-FT EACH	SPV.0060.005 POSTS TUBULAR STEEL 1.75X1.75-INCH X 16-FT EACH	SIGN MOUNTED ON SAME POST AS #	DESCRIPTION	NOTES
06-01	R4-4	6 OF 21	2M 36 X 30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
06-02	W3-3	6 OF 21	2M 36 X 36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
06-03	W3-3	6 OF 21	2M 36 X 36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
06-04	R5-1	6 OF 21	2M 36 X 36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
06-05	R6-2R	6 OF 21	2M 30 X 36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	-
06-06	R1-1	6 OF 21	2M 36 X 36	7.46	-	-	-	-	-	2	-	-	STOP	-
06-07	R3-53R	6 OF 21	2M 24 X 30	5	-	-	-	-	-	-	-	06-06	RIGHT TURN ONLY	-
06-08	R3-20L	6 OF 21	2M 24 X 36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
06-09	R4-4	6 OF 21	2M 36 X 30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
06-10	R3-8LAAR	6 OF 21	2M 72 X 30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
06-11	R3-8LAAR	6 OF 21	2M 72 X 30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
06-12	R5-1A	6 OF 21	2M 42 X 30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
06-13	R3-52P	6 OF 21	2M 30 X 42	8.75	-	-	-	-	1	-	-	-	CURB LANE - PARKING BICYCLES AND RIGHT TURNS ONLY	-
07-01	R4-7	7 OF 21	2M 24 X 30	5	-	-	-	-	-	-	-	SIGNAL POLE	KEEP RIGHT	-
07-02	R1-1F	7 OF 21	2M 36 X 36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
07-03	R1-1F	7 OF 21	2M 36 X 36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
07-04	R5-1	7 OF 21	2M 36 X 36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
07-05	R1-1F	7 OF 21	2M 36 X 36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
07-06	R5-1	7 OF 21	2M 36 X 36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
07-07	R5-2	7 OF 21	2M 24 X 24	4	-	-	-	-	-	-	-	SIGNAL POLE	NO TRUCKS SYMBOL	-
07-08	R1-1F	7 OF 21	2M 36 X 36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
07-09	R4-7	7 OF 21	2M 24 X 30	5	-	-	-	-	-	-	-	07-08 BACK	KEEP RIGHT	-
07-10	R4-7	7 OF 21	2M 24 X 30	5	-	-	-	-	-	-	-	07-11 BACK	KEEP RIGHT	-
07-11	R1-1F	7 OF 21	2M 36 X 36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
07-12	R3-20LL	7 OF 21	2M 24 X 36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN LEFT ARROW	-
07-13	R2-1	7 OF 21	2M 30 X 36	7.5	-	-	-	-	-	2	-	-	SPEED LIMIT ___ MPH	35 MPH
07-14	R7-1L	7 OF 21	2M 24 X 30	5	-	-	-	-	-	-	-	07-13	NO PARKING ANY TIME - LEFT ARROW	-
07-15	R5-1	7 OF 21	2M 36 X 36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
07-16	R1-1F	7 OF 21	2M 36 X 36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
07-17	R5-1A	7 OF 21	2M 42 X 30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
07-18	R5-1	7 OF 21	2M 36 X 36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
07-19	R1-1F	7 OF 21	2M 36 X 36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
07-20	R7-1D	7 OF 21	2M 24 X 30	5	-	-	-	-	-	-	-	07-21 BACK	NO PARKING ANY TIME - DOUBLE ARROW	-
07-21	R1-1F	7 OF 21	2M 36 X 36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
07-22	R3-52P	7 OF 21	2M 30 X 42	8.75	-	-	-	-	1	-	-	-	CURB LANE - PARKING BICYCLES AND RIGHT TURNS ONLY	-
07-23	R3-8LAAR	7 OF 21	2M 72 X 30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
07-24	R4-4	7 OF 21	2M 36 X 30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
07-25	R5-1A	7 OF 21	2M 42 X 30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
07-26	R3-8LAAR	7 OF 21	2M 72 X 30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
07-27	R3-20L	7 OF 21	2M 24 X 36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
07-28	R4-4	7 OF 21	2M 36 X 30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
07-29	R1-1	7 OF 21	2M 36 X 36	7.46	-	-	-	-	1	-	-	-	STOP	-
07-30	R5-1A	7 OF 21	2M 42 X 30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
07-31	M1-94H	7 OF 21	2M 96 X 24	16	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
07-32	M1-94H	7 OF 21	2M 102 X 24	17	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
07-33	M1-94H	7 OF 21	2M 102 X 24	17	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
07-34	M1-94H	7 OF 21	2M 96 X 24	16	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
08-01	W3-3	8 OF 21	2M 36 X 36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
08-02	W3-3	8 OF 21	2M 36 X 36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
08-03	R5-1	8 OF 21	2M 36 X 36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
SUBTOTAL				**344.42**	**59.68**	**36**	**0**	**20**	**15**	**8**	**0**			ALL ITEMS CATEGORY 0010

PERMANENT SIGNING (CONT.)

SIGN #	SIGN CODE				SIGN SIZE	SIGN SIZE W IN.		SIGN SIZE H IN.	* 637.2210 SIGNS TYPE II REFLECTIVE H SF	* 637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	SPV.0060.002 POSTS TUBULAR STEEL 1.75X1.75-INCH X 11-FT EACH	SPV.0060.003 POSTS TUBULAR STEEL 1.75X1.75-INCH X 12-FT EACH	SPV.0060.004 POSTS TUBULAR STEEL 1.75X1.75-INCH X 14-FT EACH	SPV.0060.005 POSTS TUBULAR STEEL 1.75X1.75-INCH X 16-FT EACH	SIGN MOUNTED ON SAME POST AS #	DESCRIPTION	NOTES
08-04	R2-1	8	OF	21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
08-05	R2-1	8	OF	21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
08-06	R6-2R	8	OF	21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	-
08-07	R1-1	8	OF	21	2M	36	X	36	7.46	-	-	-	-	-	2	-	-	STOP	-
08-08	R3-53R	8	OF	21	2M	24	X	30	5	-	-	-	-	-	-	-	08-07	RIGHT TURN ONLY	-
08-09	W3-3	8	OF	21	2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
08-10	W3-3	8	OF	21	2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
08-11	R3-20L	8	OF	21	2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
08-12	R3-8LAAR	8	OF	21	2M	72	X	30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
08-13	R3-8LAAR	8	OF	21	2M	72	X	30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
08-14	R4-4	8	OF	21	2M	36	X	30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
08-15	R5-1A	8	OF	21	2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
09-01	R3-52P	9	OF	21	2M	30	X	42	8.75	-	-	-	-	1	-	-	-	CURB LANE - PARKING BICYCLES AND RIGHT TURNS ONLY	-
09-02	R4-7	9	OF	21	2M	24	X	30	5	-	-	-	-	-	-	-	09-03 BACK	KEEP RIGHT	-
09-03	R1-1F	9	OF	21	2M	36	X	36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
09-04	R1-1F	9	OF	21	2M	36	X	36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
09-05	R5-1	9	OF	21	2M	36	X	36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
09-06	R1-1F	9	OF	21	2M	36	X	36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
09-07	R5-1	9	OF	21	2M	36	X	36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
09-08	R1-1F	9	OF	21	2M	36	X	36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
09-09	R4-7	9	OF	21	2M	24	X	30	5	-	-	-	-	-	-	-	09-08 BACK	KEEP RIGHT	-
09-10	R1-1F	9	OF	21	2M	36	X	36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
09-11	R4-7	9	OF	21	2M	24	X	30	5	-	-	-	-	-	-	-	09-10 BACK	KEEP RIGHT	-
09-12	R3-20L	9	OF	21	2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
09-13	R4-7	9	OF	21	2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
09-14	R2-1	9	OF	21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	-
09-15	R1-1F	9	OF	21	2M	36	X	36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
09-16	R5-1	9	OF	21	2M	36	X	36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
09-17	R3-8LF	9	OF	21	2M	36	X	30	7.5	-	-	-	1	-	-	-	-	LEFT ONLY, AHEAD-RIGHT	-
09-18	R5-1	9	OF	21	2M	36	X	36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
09-19	R1-1F	9	OF	21	2M	36	X	36	-	7.46	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	-
09-20	R4-7	9	OF	21	2M	24	X	30	5	-	-	-	-	-	-	-	09-21 BACK	KEEP RIGHT	-
09-21	R1-1F	9	OF	21	2M	36	X	36	-	7.46	-	-	-	2	-	-	-	STOP (FOLDING)	-
09-22	R3-52P	9	OF	21	2M	30	X	42	8.75	-	-	-	-	1	-	-	-	CURB LANE - PARKING BICYCLES AND RIGHT TURNS ONLY	-
09-23	R4-4	9	OF	21	2M	36	X	30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
09-24	R5-1A	9	OF	21	2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
09-25	R3-20L	9	OF	21	2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
09-26	R2-1	9	OF	21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
09-27	R2-1	9	OF	21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
09-28	R6-2R	9	OF	21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	40 MPH
09-29	M1-94H	9	OF	21	2M	108	X	24	18	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
09-30	M1-94H	9	OF	21	2M	84	X	24	14	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
09-31	M1-94H	9	OF	21	2M	102	X	24	17	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
09-32	M1-94H	9	OF	21	2M	108	X	24	18	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
09-33	M1-94H	9	OF	21	2M	84	X	24	14	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
09-34	M1-94H	9	OF	21	2M	102	X	24	17	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
10-01	R3-8LAAR	10	OF	21	2M	72	X	30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
10-02	R3-8LAAR	10	OF	21	2M	72	X	30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
10-03	R3-20L	10	OF	21	2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
10-04	R4-4	10	OF	21	2M	36	X	30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
SUBTOTAL									**372.96**	**59.68**	**18**	**0**	**17**	**21**	**4**	**0**			ALL ITEMS CATEGORY 0010

PERMANENT SIGNING (CONT.)

SIGN #	SIGN CODE		SIGN SIZE	SIGN SIZE W IN.		SIGN SIZE H IN.	* 637.2210 SIGNS TYPE II REFLECTIVE H SF	* 637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	SPV.0060.002 POSTS TUBULAR STEEL 1.75X1.75-INCH X 11-FT EACH	SPV.0060.003 POSTS TUBULAR STEEL 1.75X1.75-INCH X 12-FT EACH	SPV.0060.004 POSTS TUBULAR STEEL 1.75X1.75-INCH X 14-FT EACH	SPV.0060.005 POSTS TUBULAR STEEL 1.75X1.75-INCH X 16-FT EACH	SIGN MOUNTED ON SAME POST AS #	DESCRIPTION	NOTES
10-05	W3-3	10 OF 21	2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
10-06	W3-3	10 OF 21	2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
10-07	R5-1A	10 OF 21	2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
10-08	R4-7	10 OF 21	2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
10-09	R4-7	10 OF 21	2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
10-10	R1-1	10 OF 21	2M	36	X	36	7.46	-	-	-	-	-	2	-	-	STOP	-
10-11	R6-3	10 OF 21	2M	30	X	24	5	-	-	-	-	-	-	-	10-10	DIVIDED HIGHWAY CROSSING SIGN AND INTERSECTION	-
10-12	R5-1	10 OF 21	2M	36	X	36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
10-13	W11-15	10 OF 21	2M	36	X	36	-	-	9	-	-	-	2	-	-	TRAIL CROSSING (BIKE AND PED SYMBOL)	-
10-14	W11-15	10 OF 21	2M	36	X	36	-	-	9	-	-	-	2	-	-	TRAIL CROSSING (BIKE AND PED SYMBOL)	-
10-15	W16-9P	10 OF 21	2M	30	X	18	-	-	3.75	-	-	-	-	-	10-13	AHEAD PLAQUE (YELLOW)	-
10-16	W16-9P	10 OF 21	2M	30	X	18	-	-	3.75	-	-	-	-	-	10-14	AHEAD PLAQUE (YELLOW)	-
10-17	R3-52P	10 OF 21	2M	30	X	42	8.75	-	-	-	-	1	-	-	-	CURB LANE - PARKING BICYCLES AND RIGHT TURNS ONLY	-
10-18	W10-1	10 OF 21	2M	36	X	36	-	-	7.07	-	-	1	-	-	-	RAILROAD CROSSING	-
10-19	W10-1	10 OF 21	2M	36	X	36	-	-	7.07	-	-	1	-	-	-	RAILROAD CROSSING	-
10-20	R5-1	10 OF 21	2M	36	X	36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
11-01	R6-2R	11 OF 21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	-
11-02	R15-50	11 OF 21	4	60	X	48	20	-	-	-	-	-	3	-	-	USE RIGHT LANE IF REQUIRED TO STOP	-
11-03	R3-20L	11 OF 21	2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
11-04	R2-1	11 OF 21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
11-05	R2-1	11 OF 21	2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
11-06	W1-4L	11 OF 21	2M	36	X	36	-	-	9	-	-	-	1	-	-	LEFT REVERSE CURVE	-
11-07	R1-1	11 OF 21	2M	36	X	36	7.46	-	-	-	-	1	-	-	-	STOP	-
11-08	R9-3	11 OF 21	2M	12	X	18	1.5	-	-	-	-	-	-	-	11-07 BACK	NO PEDESTRIAN CROSSING	R9-3 (MOD)
11-09	W1-4L	11 OF 21	2M	36	X	36	-	-	9	-	-	-	1	-	-	LEFT REVERSE CURVE	-
11-10	W11-15	11 OF 21	2M	36	X	36	-	-	9	-	-	-	2	-	-	TRAIL CROSSING (BIKE AND PED SYMBOL)	-
11-11	W16-7L	11 OF 21	2M	30	X	18	-	-	3.75	-	-	-	-	-	11-10	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)	-
11-12	W11-15	11 OF 21	2M	36	X	36	-	-	9	-	-	-	2	-	-	TRAIL CROSSING (BIKE AND PED SYMBOL)	-
11-13	W16-7R	11 OF 21	2M	30	X	18	-	-	3.75	-	-	-	-	-	11-12	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)	-
11-14	W11-15	11 OF 21	2M	36	X	36	-	-	9	-	-	-	2	-	-	TRAIL CROSSING (BIKE AND PED SYMBOL)	-
11-15	W16-7L	11 OF 21	2M	30	X	18	-	-	3.75	-	-	-	-	-	11-14	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)	-
11-16	R9-3	11 OF 21	2M	12	X	18	1.5	-	-	-	-	-	-	-	11-17 BACK	NO PEDESTRIAN CROSSING	R9-3 (MOD)
11-17	R1-1	11 OF 21	2M	36	X	36	7.46	-	-	-	-	1	-	-	-	STOP	-
11-18	R15-50	11 OF 21	4	60	X	48	20	-	-	-	-	-	3	-	-	USE RIGHT LANE IF REQUIRED TO STOP	-
11-19	R4-4	11 OF 21	2M	36	X	30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
11-20	R3-20L	11 OF 21	2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
11-21	W11-15	11 OF 21	2M	36	X	36	-	-	9	-	-	-	2	-	-	TRAIL CROSSING (BIKE AND PED SYMBOL)	-
11-22	W16-7R	11 OF 21	2M	30	X	18	-	-	3.75	-	-	-	-	-	11-21	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)	-
11-23	R4-4	11 OF 21	2M	36	X	30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
11-24	R5-1A	11 OF 21	2M	42	X	30	8.75	-	-	-	-	-	-	-	11-23 BACK	WRONG WAY	-
12-01	W10-1	12 OF 21	2M	36	X	36	-	-	7.07	-	-	1	-	-	-	RAILROAD CROSSING	-
12-02	W10-1	12 OF 21	2M	36	X	36	-	-	7.07	-	-	1	-	-	-	RAILROAD CROSSING	-
12-03	R3-52P	12 OF 21	2M	30	X	42	8.75	-	-	-	-	1	-	-	-	CURB LANE - PARKING BICYCLES AND RIGHT TURNS ONLY	-
12-04	W11-15	12 OF 21	2M	36	X	36	-	-	9	-	-	-	2	-	-	TRAIL CROSSING (BIKE AND PED SYMBOL)	-
12-05	W11-15	12 OF 21	2M	36	X	36	-	-	9	-	-	-	2	-	-	TRAIL CROSSING (BIKE AND PED SYMBOL)	-
12-06	W16-9P	12 OF 21	2M	30	X	18	-	-	3.75	-	-	-	-	-	12-04	AHEAD PLAQUE (YELLOW)	-
12-07	W16-9P	12 OF 21	2M	30	X	18	-	-	3.75	-	-	-	-	-	12-05	AHEAD PLAQUE (YELLOW)	-
12-08	R5-1	12 OF 21	2M	36	X	36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
12-09	R4-7	12 OF 21	2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
12-10	R3-53R	12 OF 21	2M	24	X	30	5	-	-	-	-	-	2	-	-	RIGHT TURN ONLY	-
SUBTOTAL							**201.88**	**0**	**166.28**	**0**	**7**	**16**	**30**	**0**			ALL ITEMS CATEGORY 0010

PERMANENT SIGNING (CONT.)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE W IN. X H IN.	* 637.2210 SIGNS TYPE II REFLECTIVE H SF	* 637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	SPV.0060.002 POSTS TUBULAR STEEL 1.75X1.75-INCH X 11-FT EACH	SPV.0060.003 POSTS TUBULAR STEEL 1.75X1.75-INCH X 12-FT EACH	SPV.0060.004 POSTS TUBULAR STEEL 1.75X1.75-INCH X 14-FT EACH	SPV.0060.005 POSTS TUBULAR STEEL 1.75X1.75-INCH X 16-FT EACH	SIGN MOUNTED ON SAME POST AS #	DESCRIPTION	NOTES
12-11	R1-1	12 OF 21 2M	36 X 36	7.46	-	-	-	-	-	-	-	12-10	STOP	-
12-12	R6-2R	12 OF 21 2M	30 X 36	7.5	-	-	-	-	2	-	-	-	ONE WAY RIGHT ARROW	-
12-13	R6-2R	12 OF 21 2M	30 X 36	7.5	-	-	-	-	2	-	-	-	ONE WAY RIGHT ARROW	-
12-14	W14-1	12 OF 21 2M	30 X 30	-	-	6.25	-	-	1	-	-	-	DEAD END	-
12-15	R5-1	12 OF 21 2M	36 X 36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
12-16	R1-1	12 OF 21 2M	36 X 36	7.46	-	-	-	-	-	2	-	-	STOP	-
12-17	R3-53R	12 OF 21 2M	24 X 30	5	-	-	-	-	-	-	-	12-16	RIGHT TURN ONLY	-
12-18	R4-7	12 OF 21 2M	24 X 30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
12-19	R2-1	12 OF 21 2M	30 X 36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
12-20	R2-1	12 OF 21 2M	30 X 36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
12-21	W3-3	12 OF 21 2M	36 X 36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
12-22	W3-3	12 OF 21 2M	36 X 36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
12-23	R3-20L	12 OF 21 2M	24 X 36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
12-24	R4-4	12 OF 21 2M	36 X 30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
12-25	R5-1A	12 OF 21 2M	42 X 30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
12-26	R3-20L	12 OF 21 2M	24 X 36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
12-27	R3-8LAAR	12 OF 21 2M	72 X 30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
12-28	R5-1A	12 OF 21 2M	42 X 30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
12-29	R3-7R	12 OF 21 2M	30 X 30	6.25	-	-	-	-	-	-	-	12-30 BACK	RIGHT LANE MUST TURN RIGHT	-
12-30	R5-1A	12 OF 21 2M	42 X 30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
12-31	R5-1	12 OF 21 2M	36 X 36	9	-	-	-	-	-	-	-	12-12 BACK	DO NOT ENTER	-
12-32	R5-1	12 OF 21 2M	36 X 36	9	-	-	-	-	-	-	-	12-13 BACK	DO NOT ENTER	-
13-01	R4-7	13 OF 21 2M	24 X 30	5	-	-	-	-	-	-	-	SIGNAL POLE	KEEP RIGHT	-
13-02	R5-1	13 OF 21 2M	36 X 36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
13-03	R3-7R	13 OF 21 2M	30 X 30	6.25	-	-	-	1	-	-	-	-	RIGHT LANE MUST TURN RIGHT	-
13-04	R1-1F	13 OF 21 2M	36 X 36	-	-	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	SEE CATEGORY 0050 MQ SHEET
13-05	R4-7	13 OF 21 2M	24 X 30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
13-06	R4-7	13 OF 21 2M	24 X 30	5	-	-	-	-	-	-	-	SIGNAL POLE	KEEP RIGHT	-
13-07	R4-7	13 OF 21 2M	24 X 30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
13-08	W14-2	13 OF 21 2M	30 X 30	-	-	6.25	-	-	1	-	-	-	NO OUTLET	-
13-09	R5-1	13 OF 21 2M	36 X 36	9	-	-	-	-	-	-	-	SIGNAL POLE	DO NOT ENTER	-
13-10	R1-1F	13 OF 21 2M	36 X 36	-	-	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	SEE CATEGORY 0050 MQ SHEET
13-11	R3-8LAAF	13 OF 21 2M	72 X 30	15	-	-	-	2	-	-	-	-	LEFT ONLY, LEFT ONLY, AHEAD ONLY, AHEAD ONLY, AHEAD-RIGHT	-
13-12	R3-8LAAF	13 OF 21 2M	72 X 30	15	-	-	-	-	-	-	-	13-11 BACK	LEFT ONLY, LEFT ONLY, AHEAD ONLY, AHEAD ONLY, AHEAD-RIGHT	-
13-13	R5-1A	13 OF 21 2M	42 X 30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
13-14	W9-1R	13 OF 21 2M	36 X 36	-	-	9	-	-	-	2	-	-	RIGHT LANE ENDS	-
13-15	W16-2A	13 OF 21 2M	24 X 12	-	-	2	-	-	-	-	-	13-14	### FEET	500
13-16	R3-53R	13 OF 21 2M	24 X 30	5	-	-	-	-	-	2	-	-	RIGHT TURN ONLY	-
13-17	R1-1	13 OF 21 2M	36 X 36	7.46	-	-	-	-	-	-	-	13-16	STOP	-
13-18	R6-2R	13 OF 21 2M	30 X 36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	-
13-19	R5-1	13 OF 21 2M	36 X 36	9	-	-	-	-	1	-	-	-	DO NOT ENTER	-
13-20	R3-20L	13 OF 21 2M	24 X 36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
13-21	M1-94H	13 OF 21 2M	78 X 24	13	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
13-22	M1-94H	13 OF 21 2M	78 X 24	13	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
13-23	M1-94H	13 OF 21 2M	78 X 24	13	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
13-24	M1-94H	13 OF 21 2M	78 X 24	13	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
13-25	M1-94H	13 OF 21 2M	102 X 24	17	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
13-26	M1-94H	13 OF 21 2M	102 X 24	17	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	-
13+27	R1-1F	13 OF 21 2M	36 X 36	-	-	-	-	-	-	-	-	SIGNAL POLE	OVERHEAD STREET NAME SIGN	SEE CATEGORY 0050 MQ SHEET
13-28	R1-1F	13 OF 21 2M	36 X 36	-	-	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	SEE CATEGORY 0050 MQ SHEET
SUBTOTAL				**352.88**	**0**	**41.5**	**0**	**17**	**14**	**8**	**0**			ALL ITEMS CATEGORY 0010

PERMANENT SIGNING (CONT.)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE W IN.	X	SIGN SIZE H IN.	* 637.2210 SIGNS TYPE II REFLECTIVE H SF	* 637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	SPV.0060.002 POSTS TUBULAR STEEL 1.75X1.75-INCH X 11-FT EACH	SPV.0060.003 POSTS TUBULAR STEEL 1.75X1.75-INCH X 12-FT EACH	SPV.0060.004 POSTS TUBULAR STEEL 1.75X1.75-INCH X 14-FT EACH	SPV.0060.005 POSTS TUBULAR STEEL 1.75X1.75-INCH X 16-FT EACH	SIGN MOUNTED ON SAME POST AS #	DESCRIPTION	NOTES
13-29	R1-1F	13 OF 21 2M	36	X	36	-	-	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	SEE CATEGORY 0050 MQ SHEET
13-30	R1-1F	13 OF 21 2M	36	X	36	-	-	-	-	-	-	-	-	SIGNAL POLE	STOP (FOLDING)	SEE CATEGORY 0050 MQ SHEET
13-31	R10-50L	13 OF 21 2M	30	X	36	-	-	-	-	-	-	-	-	SIGNAL POLE	LEFT TURN YIELD ON FLASHING YELLOW ARROW	SEE CATEGORY 0050 MQ SHEET
13-32	R10-50L	13 OF 21 2M	30	X	36	-	-	-	-	-	-	-	-	SIGNAL POLE	LEFT TURN YIELD ON FLASHING YELLOW ARROW	SEE CATEGORY 0050 MQ SHEET
13-33	R10-50L	13 OF 21 2M	30	X	36	-	-	-	-	-	-	-	-	SIGNAL POLE	LEFT TURN YIELD ON FLASHING YELLOW ARROW	SEE CATEGORY 0050 MQ SHEET
14-01	R2-1	14 OF 21 2M	30	X	36	7.5	-	-	-	-	1	-	-	-	SPEED LIMIT ___ MPH	40 MPH
14-02	M1-5A	14 OF 21 2M	24	X	24	4	-	-	-	-	-	-	-	14-03 BACK	COUNTY MARKER	CTH O
14-03	R2-1	14 OF 21 2M	30	X	36	7.5	-	-	-	-	2	-	-	-	SPEED LIMIT ___ MPH	40 MPH
14-04	J1-1	14 OF 21 2M	24	X	39	6.5	-	-	-	-	1	-	-	-	JUNCTION OR END ASSEMBLY	-
	M2-1	14 OF 21 2M	21	X	15	-	-	-	-	-	-	-	-	-	JCT	-
	M1-6	14 OF 21 2M	24	X	24	-	-	-	-	-	-	-	-	-	STATE ROUTE MARKER	STH 59
14-05	R4-4	14 OF 21 2M	36	X	30	7.5	-	-	-	2	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
14-06	J2-1	14 OF 21 2M	24	X	57	9.5	-	-	1	-	-	-	-	-	ROUTE TURN ASSEMBLY (1 HEAD PANEL)	-
	M4-1	14 OF 21 2M	24	X	12	-	-	-	-	-	-	-	-	-	ALTERNATE MARKER	-
	M3-4	14 OF 21 2M	24	X	12	-	-	-	-	-	-	-	-	-	WEST CARDINAL ROUTE MARKER	-
	M1-1	14 OF 21 2M	24	X	24	-	-	-	-	-	-	-	-	-	INTERSTATE SHIELD	IH 94
	M6-1	14 OF 21 2M	21	X	21	-	-	-	-	-	-	-	-	-	ARROW - RIGHT, LEFT, OR AHEAD	AHEAD
14-07	J2-1	14 OF 21 2M	24	X	57	9.5	-	-	1	-	-	-	-	-	ROUTE TURN ASSEMBLY (1 HEAD PANEL)	-
	M4-1	14 OF 21 2M	24	X	12	-	-	-	-	-	-	-	-	-	ALTERNATE MARKER	-
	M3-2	14 OF 21 2M	24	X	12	-	-	-	-	-	-	-	-	-	EAST CARDINAL ROUTE MARKER	-
	M1-1	14 OF 21 2M	24	X	24	-	-	-	-	-	-	-	-	-	INTERSTATE SHIELD	IH 94
	M6-1	14 OF 21 2M	21	X	21	-	-	-	-	-	-	-	-	-	ARROW - RIGHT, LEFT, OR AHEAD	AHEAD
14-08	W3-3	14 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
14-09	W3-3	14 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
14-10	M1-5A	14 OF 21 2M	24	X	24	4	-	-	-	1	-	-	-	-	COUNTY MARKER	CTH O
14-11	M1-5A	14 OF 21 2M	24	X	24	4	-	-	-	1	-	-	-	-	COUNTY MARKER	CTH O
14-12	W3-3	14 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
14-13	W3-3	14 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
14-14	R5-1A	14 OF 21 2M	42	X	30	8.75	-	-	-	-	-	-	-	14-05 BACK	WRONG WAY	-
14-15	R6-2R	14 OF 21 2M	30	X	36	7.5	-	-	-	-	-	-	-	14-05 BACK	ONE WAY RIGHT ARROW	-
17-01	W3-3	15 OF 21 2M	36	X	36	-	-	9	-	-	-	-	1	-	SIGNAL AHEAD	-
17-02	R5-1	15 OF 21 2M	36	X	36	9	-	-	-	-	-	1	-	-	DO NOT ENTER	-
17-03	R4-7	15 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
17-04	R2-1	15 OF 21 2M	30	X	36	7.5	-	-	-	-	-	1	-	-	SPEED LIMIT ___ MPH	35 MPH
18-01	R5-1A	16 OF 21 2M	42	X	30	8.75	-	-	-	-	-	-	-	18-03 BACK	WRONG WAY	-
18-02	W6-2	16 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	DIVIDED HIGHWAY ENDS SYMBOL	-
18-03	W4-2R	16 OF 21 2M	36	X	36	-	-	9	-	-	-	2	-	-	LANE REDUCTION TRANSITION SYMBOL - [RIGHT LANE]	-
18-04	W4-2R	16 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	LANE REDUCTION TRANSITION SYMBOL - [RIGHT LANE]	-
18-05	M2-1	16 OF 21 2M	21	X	15	2.19	-	-	-	-	1	-	-	-	JCT	-
18-06	M1-5A	16 OF 21 2M	24	X	24	4	-	-	-	-	-	-	-	18-05	COUNTY MARKER	CTH O
18-07	R3-20L	16 OF 21 2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
18-08	R4-4	16 OF 21 2M	36	X	30	7.5	-	-	-	-	-	-	-	18-09 BACK	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
18-09	R5-1A	16 OF 21 2M	42	X	30	8.75	-	-	-	-	-	2	-	-	WRONG WAY	-
18-10	R3-8LLAAR	16 OF 21 2M	90	X	30	18.75	-	-	-	3	-	-	-	-	LEFT ONLY, LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
18-11	R3-8LLAAR	16 OF 21 2M	90	X	30	18.75	-	-	-	-	-	2	1	-	LEFT ONLY, LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
18-12	M1-5A	16 OF 21 2M	24	X	24	4	-	-	-	1	-	-	-	-	COUNTY MARKER	CTH D
18-13	W9-1R	16 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	RIGHT LANE ENDS	-
18-14	W9-1R	16 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	RIGHT LANE ENDS	-
19-01	R6-2R	17 OF 21 2M	30	X	36	7.5	-	-	-	-	1	-	-	-	ONE WAY RIGHT ARROW	-
19-02	R3-20LL	17 OF 21 2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN LEFT ARROW	-
SUBTOTAL						**189.94**	**0**	**90**	**2**	**9**	**8**	**16**	**2**			ALL ITEMS CATEGORY 0010

PERMANENT SIGNING (CONT.)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE W IN.	X	SIGN SIZE H IN.	* 637.2210 SIGNS TYPE II REFLECTIVE H SF	* 637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	SPV.0060.002 POSTS TUBULAR STEEL 1.75X1.75-INCH X 11-FT EACH	SPV.0060.003 POSTS TUBULAR STEEL 1.75X1.75-INCH X 12-FT EACH	SPV.0060.004 POSTS TUBULAR STEEL 1.75X1.75-INCH X 14-FT EACH	SPV.0060.005 POSTS TUBULAR STEEL 1.75X1.75-INCH X 16-FT EACH	SIGN MOUNTED ON SAME POST AS #	DESCRIPTION	NOTES
19-03	W9-1R	17 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	RIGHT LANE ENDS	-
19-04	R5-1A	17 OF 21 2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
19-05	R3-8LAAR	17 OF 21 2M	72	X	30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
19-06	R3-8LAAR	17 OF 21 2M	72	X	30	15	-	-	-	2	-	-	-	-	LEFT ONLY, AHEAD ONLY, AHEAD ONLY, RIGHT ONLY	-
19-07	M1-5A	17 OF 21 2M	24	X	24	4	-	-	-	1	-	-	-	-	COUNTY MARKER	CTH D
19-08	R3-20L	17 OF 21 2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW	-
19-09	R5-1A	17 OF 21 2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
19-10	W4-2R	17 OF 21 2M	36	X	36	-	-	9	-	-	-	-	-	19-09 BACK	LANE REDUCTION TRANSITION SYMBOL - [RIGHT LANE]	-
19-11	R4-4	17 OF 21 2M	36	X	30	7.5	-	-	-	1	-	-	-	-	BEGIN RIGHT TURN LANE - YIELD TO BIKES	-
19-12	W6-2	17 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	DIVIDED HIGHWAY ENDS SYMBOL	-
19-13	R4-7	17 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
19-14	R2-1	17 OF 21 2M	30	X	36	7.5	-	-	-	-	2	-	-	-	SPEED LIMIT ___ MPH	35 MPH
19-15	R5-1	17 OF 21 2M	36	X	36	9	-	-	-	-	-	-	-	19-14 BACK	DO NOT ENTER	-
19-16	W3-3	17 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
19-17	R7-52R	17 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	NO PARKING BETWEEN SIGNS - RIGHT ARROW	-
20-01	W14-1	18 OF 21 2M	30	X	30	-	-	6.25	-	-	1	-	-	-	DEAD END	-
20-02	R1-1	18 OF 21 2M	36	X	36	7.46	-	-	-	-	1	-	-	-	STOP	-
21-01	W3-3	19 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
21-02	R3-8LLAR	19 OF 21 2M	72	X	30	15	-	-	-	-	-	2	-	-	LEFT ONLY, LEFT ONLY, AHEAD ONLY, RIGHT ONLY	-
21-03	R7-1D	19 OF 21 2M	24	X	30	5	-	-	-	-	-	-	-	21-02	NO PARKING ANY TIME - DOUBLE ARROW	-
21-04	R3-20R	19 OF 21 2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN RIGHT TURN LANE WITH DOWN LEFT ARROW	-
21-05	R4-7	19 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
21-06	R5-1A	19 OF 21 2M	42	X	30	8.75	-	-	-	2	-	-	-	-	WRONG WAY	-
22-01	R4-7	20 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
22-02	R3-8LF	20 OF 21 2M	36	X	30	7.5	-	-	-	1	-	-	-	-	LEFT ONLY, AHEAD-RIGHT	-
22-03	W3-3	20 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
23-01	W3-3	21 OF 21 2M	36	X	36	-	-	9	-	-	-	1	-	-	SIGNAL AHEAD	-
23-02	R7-1D	21 OF 21 2M	24	X	30	5	-	-	-	-	1	-	-	-	NO PARKING ANY TIME - DOUBLE ARROW	-
23-03	R7-1D	21 OF 21 2M	24	X	30	5	-	-	-	-	1	-	-	-	NO PARKING ANY TIME - DOUBLE ARROW	-
23-04	R3-8LLAR	21 OF 21 2M	72	X	30	15	-	-	-	-	-	2	-	-	LEFT ONLY, LEFT ONLY, AHEAD ONLY, RIGHT ONLY	-
23-05	R3-20R	21 OF 21 2M	24	X	36	6	-	-	-	-	-	1	-	-	BEGIN RIGHT TURN LANE WITH DOWN LEFT ARROW	-
23-06	R3-20R	21 OF 21 2M	24	X	36	6	-	-	-	-	1	-	-	-	BEGIN RIGHT TURN LANE WITH DOWN LEFT ARROW	-
23-07	R4-7	21 OF 21 2M	24	X	30	5	-	-	-	1	-	-	-	-	KEEP RIGHT	-
23-08	R7-1D	21 OF 21 2M	24	X	30	5	-	-	-	-	1	-	-	-	NO PARKING ANY TIME - DOUBLE ARROW	-
23-09	R5-1A	21 OF 21 2M	42	X	30	8.75	-	-	-	-	1	1	-	-	WRONG WAY	-
SUBTOTAL						**206.96**	**0**	**69.25**	**0**	**18**	**11**	**12**	**0**			
PROJECT TOTAL						**2244.79**	**179.04**	**457.03**	**4**	**119**	**114**	**88**	**2**			

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS CATEGORY 0010

GEOGRID

CATEGORY	ROAD	STATION	TO	STATION	645.0220 GEOGRID TYPE SR SY
0010	CTH O (STAGE 1)				
		155+00	-	161+00	431
		161+00	-	167+00	500
		184+50	-	190+50	60
		190+50	-	196+50	655
		214+50	-	220+50	815
		220+50	-	226+50	594
		226+50	-	232+50	640
	CTH D (STAGE 1)				
		347+75	-	352+20	1,075
	STAGE 1 SUBTOTAL				4,770
	CTH O (STAGE 2)				
		161+00	-	167+00	381
		184+50	-	190+50	64
		190+50	-	196+50	824
		214+50	-	220+50	632
		220+50	-	226+50	398
		226+50	-	232+50	351
	STAGE 2 SUBTOTAL				2,650
	UNDISTRIBUTED				1,966
				TOTAL 0010	9,386

GEOGRID (CONTINUED)

CATEGORY	ROAD	STATION	TO	STATION	645.0220 GEOGRID TYPE SR SY
0030	W LINCOLN AVE (STAGE 1)				
		415+00	-	420+72	109
	W ROGERS DR (STAGE 1)				
		422+00	-	449+03	250
	UNDISTRIBUTED				179
				TOTAL 0030	538
				PROJECT TOTAL	**9,924**

MARKING REMOVALS WATER BLASTING

CATEGORY	ROAD	STATION	TO	STATION	646.9010 MARKING REMOVAL LINE WATER BLASTING 4-INCH LF	646.9210 MARKING REMOVAL LINE WATER BLASTING WIDE LF
0010	CTH O					
		226+50	-	232+50	220	20
	CTH D					
		342+00	-	347+75	340	---
		359+50	-	365+00	700	---
				TOTAL 0010	1,260	20
0030	W LINCOLN AVE					
		415+00	-	420+72	668	---
	W ROGERS DR					
		442+00	-	449+03	228	---
				TOTAL 0030	896	0
				PROJECT TOTAL	**2,156**	**20**

PAVEMENT MARKING ITEMS

CATEGORY	ROAD	STATION TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF	646.5020 MARKING ARROW EPOXY (WHITE) EACH	646.5120 MARKING WORD EPOXY (WHITE) EACH	646.5320 MARKING RAILROAD CROSSING EPOXY (WHITE) EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	646.6464 COLD WEATHER MARKING EPOXY 4-INCH (YELLOW) LF	646.6464 COLD WEATHER MARKING EPOXY 4-INCH (WHITE) LF	646.6468 COLD WEATHER MARKING EPOXY 8-INCH (WHITE) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (WHITE) LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE) LF	646.8120 MARKING CURB EPOXY (YELLOW) LF	646.8220 MARKING ISLAND NOSE EPOXY (YELLOW) EACH
0010	CTH O																		
		149+00 -	155+00	745	908	676	3	1	---	---	373	454	338	---	238	---	---	20	1
		155+00 -	161+00	851	1,200	1,378	6	5	---	252	426	600	689	---	298	---	---	100	4
		161+00 -	167+00	1,202	1,433	873	6	---	---	---	601	717	437	---	184	---	---	---	---
		167+00 -	173+00	990	1,321	558	6	4	---	---	495	661	279	---	198	---	---	93	3
		173+00 -	179+00	1,200	1,395	206	2	1	---	---	600	698	103	---	244	---	---	---	---
		179+00 -	184+50	1,101	1,313	756	4	2	---	---	551	657	378	---	185	---	---	---	---
		184+50 -	190+50	929	1,138	865	9	2	---	201	465	569	433	---	110	---	---	90	4
		190+50 -	196+50	1,201	1,372	634	3	1	---	---	601	686	317	---	251	---	---	---	---
		196+50 -	202+50	905	1,188	956	7	3	---	207	453	594	478	---	195	---	---	84	4
		202+50 -	208+50	960	1,341	712	5	3	---	---	480	671	356	---	163	---	---	92	2
		208+50 -	214+50	1,133	1,378	85	1	---	2	---	567	689	43	---	323	144	180	---	---
		214+50 -	220+50	1,009	1,220	1,007	10	---	2	---	505	610	504	---	107	---	---	121	4
		220+50 -	226+50	946	1,168	846	4	1	---	132	473	584	423	---	111	213	---	114	2
		226+50 -	232+50	767	627	93	2	---	---	---	384	314	47	---	38	---	---	---	---
	CTH D																		
		342+00 -	347+75	651	996	---	---	---	---	---	326	498	---	12	---	---	---	10	1
		347+75 -	352+20	892	1,074	425	6	3	---	---	446	537	213	---	---	---	---	---	---
		354+28 -	359+50	1,023	2,082	621	4	1	---	---	512	1,041	311	9	---	---	---	39	2
		359+50 -	365+00	466	850	---	---	---	---	---	233	425	---	2	---	---	---	---	---
			SUBTOTALS	16,971	22,004	10,691	78	27	4	792	8,491	11,005	5,349	23	2,645	357	180	763	27
			TOTAL 0010	38,975		10,691	78	27	4	792	19,496		5,349	2,668		357	180	763	27

PAVEMENT MARKING ITEMS (CONTINUED)

CATEGORY	ROAD	STATION TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF	646.5020 MARKING ARROW EPOXY (WHITE) EACH	646.5120 MARKING WORD EPOXY (WHITE) EACH	646.5320 MARKING RAILROAD CROSSING EPOXY (WHITE) EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	646.6464 COLD WEATHER MARKING EPOXY 4-INCH (YELLOW) LF	646.6464 COLD WEATHER MARKING EPOXY 4-INCH (WHITE) LF	646.6468 COLD WEATHER MARKING EPOXY 8-INCH (WHITE) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (WHITE) LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE) LF	646.8120 MARKING CURB EPOXY (YELLOW) LF	646.8220 MARKING ISLAND NOSE EPOXY (YELLOW) EACH
0030	W LINCOLN AVE																		
		415+00 -	420+72	1,462	615	611	3	2	---	---	731	308	306	200	---	---	---	28	1
		422+62 -	426+00	467	---	108	1	---	---	---	234	---	54	11	---	---	---	25	1
	W ROGERS DR																		
		442+00 -	449+03	1,386	958	875	7	3	---	---	693	479	438	190	---	---	---	38	1
	W WOODVIEW DR																		
		450+94 -	453+00	324	---	127	---	---	---	---	162	---	64	17	---	---	---	10	1
			SUBTOTALS	3,639	1,573	1,721	11	5	0	0	1,820	787	862	418	0	0	0	101	4
			TOTAL 0030	5,212		1,721	11	5	0	0	2,607		862	418		0	0	101	4
			PROJECT TOTAL	44,187	12,412		89	32	4	792	22,103		6,211	3,086		357	180	864	31

CONSTRUCTION STAKING

CATEGORY	ROAD	STATION TO	STATION	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.6501.401 CONSTRUCTION STAKING STRUCTURE LAYOUT R-67-173 EACH	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.8501.001 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS 2722-04-71 EACH	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500.001 CONSTRUCTION STAKING SIDEWALK 2722-04-71 EACH	650.9911.001 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 2722-04-71 EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	SPV.0090.002 CONSTRUCTION STAKING FENCE LF
0010	CTH O (STAGE 1)													
		149+00 -	155+00	---	---	---	---	384	---	---	---	---	384	---
		155+00 -	161+00	---	---	---	---	600	---	---	---	---	600	---
		161+00 -	167+00	---	---	---	---	600	---	---	---	---	600	---
		167+00 -	173+00	---	100	---	---	600	---	---	---	---	600	---
		173+00 -	179+00	---	---	---	---	600	---	---	---	---	600	---
		179+00 -	184+50	---	---	---	---	550	---	---	---	---	550	---
		184+50 -	190+50	---	---	---	---	600	---	---	---	---	600	---
		190+50 -	196+50	---	---	---	---	600	---	---	---	---	600	---
		196+50 -	202+50	---	12	---	---	600	---	---	---	---	600	---
		202+50 -	208+50	---	---	---	---	600	---	---	---	---	600	---
		208+50 -	214+50	---	---	---	---	600	---	2	---	---	600	---
		214+50 -	220+50	---	---	---	---	600	---	---	---	---	600	---
		220+50 -	226+50	---	14	---	---	600	---	3	---	---	600	---
		226+50 -	232+50	---	---	---	---	412	---	---	---	---	412	---
	CTH D (STAGE 1)													
		342+00 -	347+75	575	124	---	---	---	---	---	---	---	204	---
		347+75 -	352+20	445	1,430	---	---	---	---	---	---	---	445	224
	STAGE 1 SUBTOTAL													
				1,020	1,680	0	0	7,946	0	5	0	0	8,595	224

CONSTRUCTION STAKING (CONTINUED)

CATEGORY	ROAD	STATION TO	STATION	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.6501.401 CONSTRUCTION STAKING STRUCTURE LAYOUT R-67-173 EACH	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500.001 CONSTRUCTION STAKING SIDEWALK 2722-04-71 EACH	650.9911.001 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 2722-04-71 EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	SPV.0090.002 CONSTRUCTION STAKING FENCE LF
0010	CTH O (STAGE 2)													
		149+00 -	155+00	---	---	---	---	384	---	---	---	---	384	---
		155+00 -	161+00	---	---	---	---	600	---	---	---	---	600	---
		161+00 -	167+00	---	---	---	---	600	---	---	---	---	600	---
		167+00 -	173+00	---	---	---	---	600	---	---	---	---	600	---
		173+00 -	179+00	---	---	---	---	600	---	---	---	---	600	---
		179+00 -	184+50	---	---	---	---	550	---	---	---	---	550	---
		184+50 -	190+50	---	---	---	---	600	---	---	---	---	600	---
		190+50 -	196+50	---	---	---	---	600	---	---	---	---	600	---
		196+50 -	202+50	---	---	---	---	600	---	---	---	---	600	---
		202+50 -	208+50	---	---	---	---	600	---	---	---	---	600	---
		208+50 -	214+50	---	---	---	---	600	---	2	---	---	600	---
		214+50 -	220+50	---	---	---	---	600	---	---	---	---	600	---
		220+50 -	226+50	---	---	---	---	600	---	---	---	---	600	---
		226+50 -	232+50	---	---	---	---	412	---	---	---	---	412	---
	CTH D (STAGE 2)													
		354+28 -	359+50	522	2,033	---	---	---	---	---	---	---	522	---
		359+50 -	365+00	244	293	1	---	---	---	---	---	---	244	---
	STAGE 2 SUBTOTAL			766	2,326	1	0	7,946	0	2	0	0	8,712	0
	CTH O (STAGE 3)													
		149+00 -	155+00	---	129	---	---	384	---	---	---	---	384	---
		161+00 -	167+00	---	---	---	---	600	---	---	---	---	600	---
		202+50 -	208+50	---	---	---	---	600	---	---	---	---	600	---
	STAGE 3 SUBTOTAL			0	129	0	0	1,584	0	0	0	0	1,584	0
			TOTAL 0010	1,786	4,135	1	0	17,476	1	7	1	1	18,891	224

CONSTRUCTION STAKING (CONTINUED)

CATEGORY	ROAD	STATION TO	STATION	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.6501.401 CONSTRUCTION STAKING STRUCTURE LAYOUT R-67-173 EACH	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500.001 CONSTRUCTION STAKING SIDEWALK 2722-04-71 EACH	650.9911.001 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 2722-04-71 EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	SPV.0090.002 CONSTRUCTION STAKING FENCE LF
0030	W LINCOLN AVE (STAGE 1)													
		415+00 -	420+72	568	1,152	---	---	---	---	---	---	---	568	---
	W ROGERS DR (STAGE 1)													
		442+00 -	449+03	626	812	---	---	---	---	---	---	---	626	58
	STAGE 1 SUBTOTAL													
				1,194	1,964	0	0	0	0	0	0	0	1,194	58
	W LINCOLN AVE (STAGE 2)													
		422+62 -	426+00	228	588	---	---	---	---	---	---	---	228	---
	WOODVIEW DR (STAGE 2)													
		450+94 -	453+00	89	358	---	---	---	---	---	---	---	89	---
	STAGE 2 SUBTOTAL													
				317	946	0	0	0	0	0	0	0	317	0
			TOTAL 0030	1,511	2,910	0	0	0	0	0	0	0	1,511	58
0040	CTH D													
		347+75 -	352+20	---	---	---	1	---	---	---	---	---	---	---
			TOTAL 0040	0	0	0	1	0	0	0	0	0	0	0
			PROJECT TOTAL	**3,297**	**7,045**	**1**	**1**	**17,476**	**1**	**7**	**1**	**1**	**20,402**	**282**

3

REMOVING CONCRETE BASES

EXISTING 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
TOTALS	15

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVING 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
TOTALS	11

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES

PULL BOX NO.	STATION	LOCATION	653.0140* PULL BOXES STEEL 24X42-INCH EACH
PB1	158+37.6	81.2' RT	1
PB2	158+11.1	62.0' RT	1
PB3	158+11.1	-11.5' LT	1
PB4	158+11.1	-64.0' LT	1
PB5	158+33.2	-95.5' LT	1
PB6	159+11.8	-96.1' LT	1
PB7	159+55.8	-96.6' LT	1
PB8	160+02.8	-63.0' LT	1
PB9	160+02.8	11.0' RT	1
PB10	160+02.8	58.0' RT	1
PB11	159+61.1	114.3' RT	1
PB12	158+92.1	115.0' RT	1
PB13	158+54.1	115.2' RT	1
PB14	158+46.4	92.1' RT	1
TOTALS			14

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
CB1	PB1	-	21
PB1	PB2	-	66
PB2	PB3	-	148
PB3	PB4	-	106
PB4	PB5	-	76
PB5	PB6	-	158
PB6	PB7	-	88
PB7	PB8	-	122
PB8	PB9	-	148
PB9	PB10	-	94
PB10	PB11	-	154
PB11	PB12	-	136
PB12	PB13	-	76
PB13	PB14	-	48
PB14	CB1	-	21
PB2	SB1	5	-
PB3	SB2	142	-
PB4	SB3	-	9
PB5	SB4	10	-
PB6	SB5	140	-
PB7	SB6	-	10
PB8	SB7	13	-
PB9	SB8	141	-
PB10	SB9	-	10
PB11	SB10	28	-
PB12	SB11	119	-
PB13	SB12	-	12
	TOTALS	598	1,503

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.101* REMOVING TRAFFIC SIGNALS EACH
CTH O & CTH D	1
TOTALS	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0102* CONCRETE BASES TYPE 2 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0113* CONCRETE BASES TYPE 13 EACH	654.0217* CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	158+42.6	86.0' RT	-	-	-	1
SB1	158+16.3	61.9' RT	1	-	-	-
SB2	156+71.0	-12.0' LT	-	1	-	-
SB3	158+06.6	-57.0' LT	-	-	1	-
SB4	158+40.4	-88.7' LT	1	-	-	-
SB5	159+10.3	-234.1' LT	-	1	-	-
SB6	159+52.5	-102.9' LT	-	-	1	-
SB7	159+90.4	-61.3' LT	1	-	-	-
SB8	161+41.8	11.0' RT	-	1	-	-
SB9	159+93.1	58.1' RT	-	-	1	-
SB10	159+63.7	86.4' RT	1	-	-	-
SB11	158+93.1	232.1' RT	-	1	-	-
SB12	158+53.3	103.4' RT	-	-	1	-
		TOTALS	4	4	4	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900* TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB3 (HEAD A)	298
CB1	SB9 (HEAD B)	346
CB1	SB6 (HEAD C)	460
CB1	SB12 (HEAD D)	165
	TOTALS	1,269

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE

FROM	TO	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260* CABLE TRAFFIC SIGNAL 12-14 AWG LF
CB1	SB1	-	-	98
SB1	HEAD 1	-	23	-
CB1	SB3	-	-	259
SB3	HEAD 8	59	-	-
SB3	HEAD 9	48	-	-
SB3	HEAD 10	80	-	-
SB3	HEAD 11	69	-	-
CB1	SB4	-	-	313
SB4	HEAD 12	-	23	-
SB4	HEAD 21	-	22	-
CB1	SB6	-	-	466
SB6	HEAD 19	51	-	-
SB6	HEAD 20	40	-	-
SB6	HEAD 22	-	74	-
CB1	SB7	-	-	476
SB7	HEAD 5	-	22	-
SB7	HEAD 7	21	-	-
CB1	SB9	-	-	322
SB9	HEAD 2	60	-	-
SB9	HEAD 3	48	-	-
SB9	HEAD 4	-	22	-
SB9	HEAD 6	-	80	-
CB1	SB10	-	-	248
SB10	HEAD 18	21	-	-
CB1	SB12	-	-	96
SB12	HEAD 13	51	-	-
SB12	HEAD 14	40	-	-
SB12	HEAD 15	-	23	-
SB12	HEAD 16	74	-	-
SB12	HEAD 17	63	-	-
	TOTALS	725	289	2,278

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515* ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	98
SB1	SB3	202
SB3	SB4	103
SB4	SB6	204
SB6	SB7	130
SB7	SB9	205
SB9	SB10	161
SB10	SB12	207
SB12	CB1	96
PB1	CB1	37
PB2	SB1	28
PB3	SB3	100
PB4	SB3	32
PB5	SB4	33
PB6	SB6	92
PB7	SB6	33
PB8	SB7	36
PB9	SB9	95
PB10	SB9	33
PB11	SB10	51
PB12	SB12	88
PB13	SB12	35
PB14	CB1	37
	TOTALS	2,136

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

SHEET 2 OF 4

3

ELECTRICAL WIRE LIGHTING

FROM	TO	655.0320* CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB1	98	-
SB1	LUMIN	-	139
SB1	SB2	267	-
SB2	LUMIN	-	139
SB2	SB3	250	-
SB3	LUMIN	-	145
SB3	SB4	103	-
SB4	LUMIN	-	139
SB4	SB5	275	-
SB5	LUMIN	-	139
SB5	SB6	240	-
SB6	LUMIN	-	145
CB1	SB12	96	-
SB12	LUMIN	-	145
SB12	SB11	215	-
SB11	LUMIN	-	139
SB11	SB10	261	-
SB10	LUMIN	-	139
SB10	SB9	161	-
SB9	LUMIN	-	145
SB9	SB8	244	-
SB8	LUMIN	-	139
SB8	SB7	274	-
SB7	LUMIN	-	139
	TOTALS	2,484	1,692

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

POLES AND ARMS

SIGNAL BASE NO.	657.0255* TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310* POLES TYPE 3 EACH	657.0322 POLES TYPE 5-ALUMINUM EACH	657.0360* POLES TYPE 13 EACH	657.0555* MONOTUBE ARMS 55-FT EACH	657.0614* LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 8-FOOT EACH	657.0615 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 8-FOOT EACH	657.0810* LUMINAIRE ARMS STEEL 10-FT EACH	659.1125* LUMINAIRES UTILITY LED C EACH
SB1	1	1	-	-	-	1	-	-	1
SB2	1	-	1	-	-	-	1	-	1
SB3	-	-	-	1	1	-	-	1	1
SB4	1	1	-	-	-	1	-	-	1
SB5	1	-	1	-	-	-	1	-	1
SB6	-	-	-	1	1	-	-	1	1
SB7	1	1	-	-	-	1	-	-	1
SB8	1	-	1	-	-	-	1	-	1
SB9	-	-	-	1	1	-	-	1	1
SB10	1	1	-	-	-	1	-	-	1
SB11	1	-	1	-	-	-	1	-	1
SB12	-	-	-	1	1	-	-	1	1
TOTALS	8	4	4	4	4	4	4	4	12

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173* TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174* TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0175* TRAFFIC SIGNAL FACE 5S 12-INCH EACH
1	SB1	-	-	1
2	SB9	1	-	-
3	SB9	1	-	-
4	SB9	-	-	1
5	SB7	-	1	-
6	SB9	-	1	-
7	SB7	1	-	-
8	SB3	1	-	-
9	SB3	1	-	-
10	SB3	1	-	-
11	SB3	1	-	-
12	SB4	-	-	1
13	SB12	1	-	-
14	SB12	1	-	-
15	SB12	-	-	1
16	SB12	1	-	-
17	SB12	1	-	-
18	SB10	1	-	-
19	SB6	1	-	-
20	SB6	1	-	-
21	SB4	-	1	-
22	SB6	-	1	-
	TOTALS	14	4	4

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERCIVE METER BREAKER PEDESTAL

CTH O & CTH D

BASE NO.	656.0201.101 ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH
CB1	1
TOTALS	1

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

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.101 SIGNAL MOUNTING HARDWARE EACH
CTH O & CTH D	1
TOTALS	1

3

LAMP, BALLAST, LED, SWITCH DISPOAL BY CONTRACTOR

FIXTURE TYPE	659.5000.S* LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
TRAFFIC SIGNAL, THREE SECTION	8
TRAFFIC SIGNAL, FIVE SECTION	8
LUMINAIRES, LED	8
	24

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LAMP, BALLAST, LED, SWITCH DISPOAL BY CONTRACTOR
(FOR INFORMATION ONLY)

SIGNAL BASE NO.	TRAFFIC SIGNAL, THREE SECTION EACH	TRAFFIC SIGNAL, FIVE SECTION EACH	LUMINAIRES, LED EACH
SB1	1	-	-
SB2	-	2	-
SB3	-	-	2
SB4	1	-	-
SB5	1	-	-
SB6	-	2	2
SB7	1	-	-
SB8	1	-	-
SB9	-	2	2
SB10	1	-	-
SB11	1	-	-
SB12	-	2	-
SB13	-	-	2
SB14	1	-	-
TOTAL	8	8	8

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0201.101* TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS EACH
CTH O & CTH D	1
TOTALS	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

REINSTALL TEMPORARY EVP EQUIPMENT

LOCATION	SPV.0060.101 REINSTALL TEMPORARY EVP EQUIPMENT EACH
CTH O & CTH D	1
TOTALS	1

FURNISH AND INSTALL VIDEO DETECTION SYSTEM, CTH O & CTH D

LOCATION	SPV.0060.104 FURNISH AND INSTALL VIDEO DETECTION SYSTEM EACH
CTH O & CTH D	1
TOTAL	1

CAMERA	INSTALLATION METHOD
V1 (SB3)	ON LUMINAIRE ARM
V2 (SB9)	ON LUMINAIRE ARM
V3 (SB6)	ON LUMINAIRE ARM
V4 (SB12)	ON LUMINAIRE ARM

TRAFFIC SIGNAL CONTROLLER AND CABINET

LOCATION	SPV.0060.107 TRAFFIC SIGNAL CONTROLLER AND CABINET EACH
CTH O & CTH D	1
TOTALS	1

TEMPORARY VEHICLE DETECTION SYSTEM

LOCATION	SPV.0060.110 TEMPORARY VEHICLE DETECTION SYSTEM EACH
CTH O & CTH D	1
TOTALS	1

REMOVE & REINSTALL EVP EQUIPMENT

LOCATION	SPV.0060.113 REMOVE & REINSTALL EVP EQUIPMENT EACH
CTH O & CTH D	1
TOTALS	1

3

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REMOVING CONCRETE BASES

EXISTING 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
TOTALS	12

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVING 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
TOTALS	12

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES

PULL BOX NO.	STATION	LOCATION	653.0140* PULL BOXES STEEL 24X42-INCH EACH
PB1	185+16.1	71.0' RT	1
PB2	184+85.0	58.4' RT	1
PB3	184+75.7	-9.0' LT	1
PB4	184+68.7	-59.8' LT	1
PB5	185+03.5	-78.8' LT	1
PB6	185+28.5	-74.0' LT	1
PB7	186+13.1	-84.0' LT	1
PB8	186+34.7	-64.2' RT	1
PB9	186+34.2	57.7' RT	1
PB10	186+10.0	85.8' RT	1
PB11	185+63.5	88.3' RT	1
PB12	185+35.7	89.7' RT	1
		TOTALS	12

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
CB1	PB1	-	30
PB1	PB2	-	66
PB2	PB3	-	136
PB3	PB4	-	102
PB4	PB5	-	80
PB5	PB6	26	-
PB5	PB7	-	220
PB7	PB8	-	60
PB8	PB9	-	244
PB9	PB10	-	74
PB10	PB11	-	92
PB11	PB12	-	56
PB12	CB1	-	51
PB2	SB1	21	-
PB3	SB2	20	-
PB3	SB3	5	-
PB4	SB4	-	13
PB5	SB5	6	-
PB6	SB6	6	-
PB7	SB7	-	11
PB8	SB8	18	-
PB9	SB9	-	9
PB10	SB10	-	13
PB12	SB11	-	6
	TOTALS	102	1,263

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.102* REMOVING TRAFFIC SIGNALS EACH
CTH O & LINCOLN AVE	1
TOTALS	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SHEET 1 OF 4

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INTERSECTION OF CTH O & LINCOLN AVE
ALL ITEMS CATEGORY 0010

TRAFFIC SIGNAL CABLE

FROM	TO	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260* CABLE TRAFFIC SIGNAL 12-14 AWG LF
CB1	SB1	-	-	117
SB1	HEAD 1	21	-	-
SB1	HEAD 9	-	22	-
CB1	SB2	-	-	199
SB2	HEAD 13	21	-	-
CB1	SB3	-	-	184
SB3	HEAD 14	21	-	-
CB1	SB4	-	-	258
SB4	HEAD 7	63	-	-
SB4	HEAD 8	51	-	-
SB4	HEAD 10	-	79	-
CB1	SB5	-	-	306
SB5	HEAD 12	21	-	-
CB1	SB6	-	-	347
SB6	HEAD 11	21	-	-
SB6	HEAD 21	-	22	-
CB1	SB7	-	-	398
SB7	HEAD 19	48	-	-
SB7	HEAD 20	21	-	-
SB7	HEAD 22	-	70	-
CB1	SB8	-	-	366
SB8	HEAD 4	-	22	-
SB8	HEAD 6	21	-	-
CB1	SB9	-	-	220
SB9	HEAD 2	62	-	-
SB9	HEAD 3	50	-	-
SB9	HEAD 5	81	-	-
CB1	SB10	-	-	170
SB10	HEAD 18	21	-	-
CB1	SB11	-	-	64
SB11	HEAD 14	42	-	-
SB11	HEAD 15	21	-	-
SB11	HEAD 16	62	-	-
SB11	HEAD 17	51	-	-
	TOTALS	699	215	2,629

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900* TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB4 (HEAD A)	297
CB1	SB9 (HEAD B)	251
CB1	SB7 (HEAD C)	435
CB1	SB11 (HEAD D)	130
	TOTALS	1,113

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515* ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	117
SB1	SB2	155
SB2	SB3	56
SB3	SB4	115
SB4	SB5	105
SB5	SB6	84
SB6	SB7	215
SB7	SB8	105
SB8	SB9	195
SB9	SB10	105
SB10	SB11	154
SB11	CB1	61
PB1	CB1	40
PB2	SB1	44
PB3	SB3	28
PB4	SB4	36
PB5	SB5	29
PB6	SB6	29
PB7	SB7	34
PB8	SB8	41
PB9	SB9	32
PB10	SB10	36
PB11	SB11	72
PB12	SB11	29
	TOTALS	1,917

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101* CONCRETE BASES TYPE 1 EACH	654.0102* CONCRETE BASES TYPE 2 EACH	654.0113* CONCRETE BASES TYPE 13 EACH	654.0120* CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217* CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	185+25.1	76.0' RT	-	-	-	-	1
SB1	185+05.6	59.5' RT	-	1	-	-	-
SB2	184+95.1	-9.0' LT	1	-	-	-	-
SB3	184+80.1	-9.0' LT	1	-	-	-	-
SB4	184+83.4	-59.8' LT	-	-	1	-	-
SB5	184+99.0	-75.0' LT	-	1	-	-	-
SB6	185+27.6	-67.8 LT	1	-	-	-	-
SB7	186+07.8	-93.8' LT	-	-	-	1	-
SB8	186+51.9	-59.9' LT	-	1	-	-	-
SB9	186+42.7	56.3' RT	-	-	1	-	-
SB10	186+06.7	73.2' RT	-	1	-	-	-
SB11	185+34.6	83.5' RT	-	-	-	1	-
		TOTALS	3	4	2	2	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SHEET 2 OF 4

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES	SHEET: 478	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

INTERSECTION OF CTH O & LINCOLN AVE
ALL ITEMS CATEGORY 0010

3

3

POLES AND ARMS

SIGNAL BASE NO.	657.0100* PEDESTAL BASES EACH	657.0255* TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310* POLES TYPE 3 EACH	657.0352* POLES TYPE 10-SPECIAL EACH	657.0360* POLES TYPE 13 EACH	657.0420* TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FOOT EACH	657.0425* TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FOOT EACH	657.0540* MONOTUBE ARMS 40-FT EACH	657.0545* MONOTUBE ARMS 45-FT EACH	657.0555* MONOTUBE ARMS 55-FT EACH	657.0614* LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 8-FOOT EACH	657.0810* LUMINAIRE ARMS STEEL 10-FT EACH	659.1125* LUMINAIRES UTILITY LED C EACH
SB1	-	1	1	-	-	-	-	-	-	-	1	-	1
SB2	1	-	-	-	-	1	-	-	-	-	-	-	-
SB3	1	-	-	-	-	1	-	-	-	-	-	-	-
SB4	-	-	-	-	1	-	-	-	-	1	-	1	1
SB5	-	1	1	-	-	-	-	-	-	-	1	-	1
SB6	1	-	-	-	-	-	1	-	-	-	-	-	-
SB7	-	-	-	1	-	-	-	-	1	-	-	1	1
SB8	-	1	1	-	-	-	-	-	-	-	1	-	1
SB9	-	-	-	-	1	-	-	-	-	1	-	1	1
SB10	-	1	1	-	-	-	-	-	-	-	1	-	1
SB11	-	-	-	1	-	-	-	1	-	-	-	1	1
TOTALS	3	4	4	2	2	2	1	1	1	2	4	4	8

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE LIGHTING

FROM	TO	655.0320* CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB1	117	-
SB1	LUMIN	-	139
SB1	SB4	214	-
SB4	LUMIN	-	145
SB4	SB5	105	-
SB5	LUMIN	-	139
SB5	SB7	173	-
SB7	LUMIN	-	145
CB1	SB11	61	-
SB11	LUMIN	-	145
SB11	SB10	154	-
SB10	LUMIN	-	139
SB10	SB9	105	-
SB9	LUMIN	-	145
SB9	SB8	195	-
SB8	LUMIN	-	139
	TOTALS	1,124	1,136

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173* TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174* TRAFFIC SIGNAL FACE 4S 12-INCH EACH
1	SB1	1	-
2	SB9	1	-
3	SB9	1	-
4	SB8	-	1
5	SB9	-	1
6	SB8	1	-
7	SB4	1	-
8	SB4	1	-
9	SB1	-	1
10	SB4	-	1
11	SB6	1	-
12	SB5	1	-
13	SB2	1	-
14	SB3	1	-
15	SB11	1	-
16	SB11	1	-
17	SB11	1	-
18	SB11	1	-
19	SB10	1	-
20	SB7	1	-
21	SB7	1	-
22	SB6	-	1
23	SB7	-	1
	TOTALS	17	6

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERCIVE METER BREAKER PEDESTAL

CTH O & LINCOLN AVE

BASE NO.	656.0201.102 ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH
CB1	1
TOTALS	1

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

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.102 SIGNAL MOUNTING HARDWARE EACH
CTH O & LINCOLN AVE	1
TOTALS	1

SHEET 3 OF 4

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES	SHEET: 479	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

3

INTERSECTION OF CTH O & LINCOLN AVE
ALL ITEMS CATEGORY 0010

LAMP, BALLAST, LED, SWITCH DISPOAL BY CONTRACTOR

FIXTURE TYPE	659.5000.S* LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
TRAFFIC SIGNAL, THREE SECTION	12
TRAFFIC SIGNAL, FIVE SECTION	2
LUMINAIRES, LED	2
	16

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LAMP, BALLAST, LED, SWITCH DISPOAL BY CONTRACTOR
(FOR INFORMATION ONLY)

SIGNAL BASE NO.	TRAFFIC SIGNAL, THREE SECTION EACH	TRAFFIC SIGNAL, FIVE SECTION EACH	LUMINAIRES, LED EACH
SB1	1	-	-
SB2	1	1	1
SB3	1	-	-
SB4	2	-	-
SB5	1	-	-
SB6	1	-	-
SB7	1	1	1
SB8	1	-	-
SB9	1	-	-
SB10	1	-	-
SB11	1	-	-
TOTAL	12	2	2

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0201.102* TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS EACH
CTH O & LINCOLN AVE	1
TOTALS	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REINSTALL TEMPORARY EVP EQUIPMENT

LOCATION	SPV.0060.102 REINSTALL TEMPORARY EVP EQUIPMENT EACH
CTH O & LINCOLN AVE	1
TOTALS	1

FURNISH AND INSTALL VIDEO DETECTION SYSTEM, CTH O & LINCOLN AVE

LOCATION	SPV.0060.105 FURNISH AND INSTALL VIDEO DETECTION SYSTEM EACH
CTH O & LINCOLN AVE	1
TOTAL	1

CAMERA	INSTALLATION METHOD
V1 (SB4)	ON LUMINAIRE ARM
V2 (SB9)	ON LUMINAIRE ARM
V3 (SB7)	ON LUMINAIRE ARM
V4 (SB11)	ON LUMINAIRE ARM

TRAFFIC SIGNAL CONTROLLER AND CABINET

LOCATION	SPV.0060.108 TRAFFIC SIGNAL CONTROLLER AND CABINET EACH
CTH O & LINCOLN AVE	1
TOTALS	1

TEMPORARY VEHICLE DETECTION SYSTEM

LOCATION	SPV.0060.111 TEMPORARY VEHICLE DETECTION SYSTEM EACH
CTH O & LINCOLN AVE	1
TOTALS	1

REMOVE & REINSTALL EVP EQUIPMENT

LOCATION	SPV.0060.114 REMOVE & REINSTALL EVP EQUIPMENT EACH
CTH O & LINCOLN AVE	1
TOTALS	1

SHEET 4 OF 4

3

3

REMOVING CONCRETE BASES

EXISTING 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
TOTALS	12

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVING 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
TOTALS	11

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES

PULL BOX NO.	STATION	LOCATION	653.0140* PULL BOXES STEEL 24X42-INCH EACH
PB1	197+51.8	77.0' RT	1
PB2	197+30.2	61.8' RT	1
PB3	197+30.2	-62.8' LT	1
PB4	197+56.0	-87.4 LT	1
PB5	198+52.1	-93.7' LT	1
PB6	198+77.8	-64.4' LT	1
PB7	198+77.8	62.3' RT	1
PB8	198+53.8	80.7' RT	1
PB9	198+05.2	83.9' RT	1
PB10	197+71.8	86.1' RT	1
		TOTALS	10

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
CB1	PB1	-	30
PB1	PB2	-	52
PB2	PB3	-	250
PB3	PB4	-	72
PB4	PB5	-	192
PB5	PB6	-	78
PB6	PB7	-	252
PB7	PB8	-	60
PB8	PB9	-	96
PB9	PB10	-	66
PB10	CB1	-	36
PB2	SB1	13	-
PB3	SB2	-	9
PB4	SB3	8	-
PB5	SB4	-	5
PB6	SB5	13	-
PB7	SB6	-	8
PB8	SB7	11	-
PB10	SB8	-	7
	TOTALS	45	1,213

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.103* REMOVING TRAFFIC SIGNALS EACH
CTH O & ROGERS DR	1
TOTALS	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SHEET 1 OF 4

3

TRAFFIC SIGNAL CABLE

FROM	TO	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260* CABLE TRAFFIC SIGNAL 12-14 AWG LF
CB1	SB1	-	-	102
SB1	HEAD 1	21	-	-
SB1	HEAD 9	-	22	-
CB1	SB2	-	-	238
SB2	HEAD 7	62	-	-
SB2	HEAD 8	50	-	-
SB2	HEAD 10	-	81	-
CB1	SB3	-	-	288
SB3	HEAD 11	-	23	-
SB3	HEAD 19	-	22	-
CB1	SB4	-	-	396
SB4	HEAD 17	49	-	-
SB4	HEAD 18	21	-	-
SB4	HEAD 20	-	70	-
CB1	SB5	-	-	360
SB5	HEAD 4	-	21	-
SB5	HEAD 6	21	-	-
CB1	SB6	-	-	214
SB6	HEAD 2	62	-	-
SB6	HEAD 3	50	-	-
SB6	HEAD 5	-	80	-
CB1	SB7	-	-	163
SB7	HEAD 16	21	-	-
CB1	SB8	-	-	57
SB8	HEAD 12	43	-	-
SB8	HEAD 13	-	23	-
SB8	HEAD 14	64	-	-
SB8	HEAD 15	54	-	-
	TOTALS	518	342	1,818

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515* ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	102
SB1	SB2	193
SB2	SB3	99
SB3	SB4	155
SB4	SB5	103
SB5	SB6	193
SB6	SB7	95
SB7	SB8	160
SB8	CB1	65
PB1	CB1	40
PB2	SB1	36
PB3	SB2	32
PB4	SB3	31
PB5	SB4	28
PB6	SB5	36
PB7	SB6	31
PB8	SB7	34
PB9	SB8	78
PB10	SB8	30
	TOTALS	1,541

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0102* CONCRETE BASES TYPE 2 EACH	654.0113* CONCRETE BASES TYPE 13 EACH	654.0120* CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217* CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	197+60.0	82.9' RT	-	-	-	1
SB1	197+43.5	61.3' RT	1	-	-	-
SB2	197+25.2	-56.7 LT	-	1	-	-
SB3	197+56.1	-79.5' LT	1	-	-	-
SB4	198+47.8	-95.1' LT	-	-	1	-
SB5	198+90.0	-60.5' LT	1	-	-	-
SB6	198+82.5	56.7' RT	-	1	-	-
SB7	198+53.4	71.1' RT	1	-	-	-
SB8	197+76.8	82.5' RT	-	-	1	-
		TOTALS	4	2	2	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900* TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB2 (HEAD A)	292
CB1	SB6 (HEAD B)	253
CB1	SB4 (HEAD C)	410
CB1	SB8 (HEAD D)	126
	TOTALS	1,081

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

ELECTRICAL WIRE LIGHTING

FROM	TO	655.0320* CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB1	102	-
SB1	LUMIN	-	139
SB1	SB2	193	-
SB2	LUMIN	-	145
SB2	SB3	99	-
SB3	LUMIN	-	139
SB3	SB4	155	-
SB4	LUMIN	-	145
CB1	SB8	65	-
SB8	LUMIN	-	145
SB8	SB7	160	-
SB7	LUMIN	-	139
SB7	SB6	95	-
SB6	LUMIN	-	145
SB6	SB5	193	-
SB5	LUMIN	-	139
	TOTALS	1,062	1,136

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

POLES AND ARMS

SIGNAL BASE NO.	657.0255* TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310* POLES TYPE 3 EACH	657.0352* POLES TYPE 10-SPECIAL EACH	657.0360* POLES TYPE 13 EACH	657.0540* MONOTUBE ARMS 40-FT EACH	657.0545* MONOTUBE ARMS 45-FT EACH	657.0555* MONOTUBE ARMS 55-FT EACH	657.0614* LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 8-FOOT EACH	657.0810* LUMINAIRE ARMS STEEL 10-FT EACH	659.1125* LUMINAIRES UTILITY LED C EACH
SB1	1	1	-	-	-	-	-	1	-	1
SB2	-	-	-	1	-	-	1	-	1	1
SB3	1	1	-	-	-	-	-	1	-	1
SB4	-	-	1	-	-	1	-	-	1	1
SB5	1	1	-	-	-	-	-	1	-	1
SB6	-	-	-	1	-	-	1	-	1	1
SB7	1	1	-	-	-	-	-	1	-	1
SB8	-	-	1	-	1	-	-	-	1	1
TOTALS	4	4	2	2	1	1	2	4	4	8

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173* TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174* TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0175* TRAFFIC SIGNAL FACE 5S 12-INCH EACH
1	SB1	1	-	-
2	SB6	1	-	-
3	SB6	1	-	-
4	SB5	-	1	-
5	SB6	-	1	-
6	SB5	1	-	-
7	SB2	1	-	-
8	SB2	1	-	-
9	SB1	-	1	-
10	SB2	-	1	-
11	SB3	-	-	1
12	SB8	1	-	-
13	SB8	-	-	1
14	SB8	1	-	-
15	SB8	1	-	-
16	SB7	1	-	-
17	SB4	1	-	-
18	SB4	1	-	-
19	SB3	-	1	-
20	SB4	-	1	-
	TOTALS	12	6	2

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERCIVE METER BREAKER PEDESTAL

CTH O & ROGERS DR

BASE NO.	656.0201.103 ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH
CB1	1
TOTALS	1

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

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.103 SIGNAL MOUNTING HARDWARE EACH
CTH O & ROGERS DR	1
TOTALS	1

3

LAMP, BALLAST, LED, SWITCH DISPOAL BY CONTRACTOR

FIXTURE TYPE	659.5000.S* LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
TRAFFIC SIGNAL, THREE SECTION	12
TRAFFIC SIGNAL, FIVE SECTION	2
LUMINAIRES, UTILITY HPS	2
	16

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LAMP, BALLAST, LED, SWITCH DISPOAL BY CONTRACTOR

(FOR INFORMATION ONLY)

SIGNAL BASE NO.	TRAFFIC SIGNAL, THREE SECTION EACH	TRAFFIC SIGNAL, FIVE SECTION EACH	LUMINAIRES, UTILITY HPS EACH
SB1	1	-	-
SB2	1	1	1
SB3	1	-	-
SB4	2	-	-
SB5	1	-	-
SB6	1	-	-
SB7	1	1	1
SB8	1	-	-
SB9	1	-	-
SB10	1	-	-
SB11	1	-	-
TOTAL	12	2	2

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0201.103 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS EACH
CTH O & ROGERS DR	1
TOTALS	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

REINSTALL TEMPORARY EVP EQUIPMENT

LOCATION	SPV.0060.103 REINSTALL TEMPORARY EVP EQUIPMENT EACH
CTH O & ROGERS DR	1
TOTALS	1

FURNISH AND INSTALL VIDEO DETECTION SYSTEM, CTH O & ROGERS DR

LOCATION	SPV.0060.106 FURNISH AND INSTALL VIDEO DETECTION SYSTEM EACH
CTH O & ROGERS DR	1
TOTAL	1

CAMERA	INSTALLATION METHOD
V1 (SB2)	ON LUMINAIRE ARM
V2 (SB6)	ON LUMINAIRE ARM
V3 (SB4)	ON LUMINAIRE ARM
V4 (SB8)	ON LUMINAIRE ARM

TRAFFIC SIGNAL CONTROLLER AND CABINET

TRAFFIC SIGNAL CONTROLLER AND CABINET

LOCATION	SPV.0060.109 TRAFFIC SIGNAL CONTROLLER AND CABINET EACH
CTH O & ROGERS DR	1
TOTALS	1

TEMPORARY VEHICLE DETECTION SYSTEM

LOCATION	SPV.0060.112 TEMPORARY VEHICLE DETECTION SYSTEM EACH
CTH O & ROGERS DR	1
TOTALS	1

REMOVE & REINSTALL EVP EQUIPMENT

LOCATION	SPV.0060.115 REMOVE & REINSTALL EVP EQUIPMENT EACH
CTH O & ROGERS DR	1
TOTALS	1

3

		CONDUIT		
		652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	652.0615* CONDUIT SPECIAL 3-INCH
FROM	TO	L.F.	L.F.	L.F.
CB1	PB1	--	105	--
PB1	SB1	5	--	--
PB1	SB2	20	--	--
PB1	PB2	--	230	--
PB2	SB3	--	35	--
PB2	SB4	30	--	--
PB2	SB5	15	--	--
PB2	PB3	--	130	--
PB3	SB6	--	5	--
PB3	PB4	--	100	--
PB4	SB7	25	--	--
PB4	PB5	--	90	--
PB5	SB8	15	--	--
PB5	PB6	--	--	130
PB6	PB7	--	80	--
PB7	SB9	--	25	--
PB7	PB8	--	150	--
PB8	SB10	--	20	--
PB8	PB9	--	90	--
PB9	CB1	--	45	--
CB1	I/C PB221	15	--	--
	TOTAL	125	1105	130

* QUANTITY SHOWN ELSEWHERE ON PLAN

			CONCRETE BASES				
			654.0101* CONCRETE BASES TYPE 1	654.0110* CONCRETE BASES TYPE 10	654.0113* CONCRETE BASES TYPE 13	654.012* CONCRETE BASES TYPE 10 SPECIAL	654.0217* CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL
SIGNAL	LOCATION						
BASE NO.	STA	OFFSET	EACH	EACH	EACH	EACH	EACH
CB1	222+99.5	73.5 RT	--	--	--	--	1
SB1	222+62.6	59.0 RT	1	--	--	--	--
SB2	222+51.4	73.9 RT	1	--	--	--	--
SB3	221+77.4	72.1 RT	--	1	--	--	--
SB4	221+70.7	69.7 RT	1	--	--	--	--
SB5	221+58.5	59.3 RT	1	--	--	--	--
SB6	221+49.8	9.0 LT	--	--	--	1	--
SB7	221+67.6	66.1 LT	1	--	--	--	--
SB8	221+78.7	66.1 LT	1	--	--	--	--
SB9	222+69.0	67.6 LT	--	--	1	--	--
SB10	222+75.8	9.0 RT	--	1	--	--	--
		TOTAL	6	2	1	1	1

* QUANTITY SHOWN ELSEWHERE ON PLAN

		PULL BOXES	
			653.0140* PULL BOXES STEEL 24x42-INCH
PULL BOX	LOCATION		
NO.	STA	OFFSET	EACH
PB1	222+59.4	56.8 RT	1
PB2	221+45.1	58.6 RT	1
PB3	221+43.2	9.0 LT	1
PB4	221+41.5	58.8 LT	1
PB5	221+84.6	78.5 LT	1
PB6	222+52.4	80.2 LT	1
PB7	222+94.7	68.7 LT	1
PB8	222+97.2	9.0 RT	1
PB9	222+98.8	56.7 RT	1
		TOTAL	9

* QUANTITY SHOWN ELSEWHERE ON PLAN

ALL ITEMS CATEGORY 0050

3

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.	655.0290 CABLE TRAFFIC SIGNAL 21-14 AWG L.F.
CB1	SB1	85	--	--	--
CB1	SB2	--	100	--	--
CB1	SB3	245	--	--	--
CB1	SB4	240	--	--	--
CB1	SB5	--	--	225	--
CB1	SB6	--	--	295	--
CB1	SB7	380	--	--	--
CB1	SB8	--	365	--	--
CB1	SB9	--	--	--	235
CB1	SB10	--	--	140	--
	TOTAL	950	465	660	235

* QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG L.F.
CB1	SB3	245	--
SB3	LUMINAIRE	--	145
SB3	SB6	165	--
SB6	LUMINAIRE 1	--	145
SB6	LUMINAIRE 2	--	145
CB1	SB10	140	--
SB10	LUMINAIRE 1	--	145
SB10	LUMINAIRE 2	--	145
SB10	SB9	180	--
SB9	LUMINAIRE	--	145
	TOTAL	730	870

* QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO SIGNAL HEAD NUMBER	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	25	15	--
SB2	15	20	--
SB2	17	20	--
SB3	16	50	--
SB3	24	15	--
SB5	1	22	--
SB5	12	--	22
SB5	23	15	--
SB6	4	22	--
SB6	8	40	--
SB6	9	50	--
SB6	10	60	--
SB6	13	--	22
SB7	22	15	--
SB8	14	20	--
SB8	20	20	--
SB9	5	20	--
SB9	7	20	--
SB9	18	65	--
SB9	19	55	--
SB9	21	75	--
SB10	2	40	--
SB10	3	50	--
SB10	6	22	--
SB10	11	--	22
	TOTAL	731	66

* QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515* ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	90
SB1	SB2	75
SB2	SB3	220
SB3	SB4	115
SB4	SB5	95
SB5	SB6	135
SB6	SB7	130
SB7	SB8	135
SB8	SB9	195
SB9	SB10	170
SB10	CB1	130
SB1	PB1	30
SB5	PB2	40
SB6	PB3	30
SB7	PB4	50
SB8	PB5	40
SB9	PB6	90
SB9	PB7	50
SB10	PB8	45
CB1	PB9	40
	TOTAL	1905

* QUANTITY SHOWN ELSEWHERE ON PLAN

3

ALL ITEMS CATEGORY 0050

						POLES							
	657.0100*	657.0405	657.0420*	657.0425*	657.0430	657.0350	657.0352*	657.0360*	657.0525	657.0536	657.0550	657.0815	659.1125
		TRAFFIC SIGNAL	TRAFFIC SIGNAL	TRAFFIC SIGNAL	TRAFFIC SIGNAL								
		STANDARDS	STANDARDS	STANDARDS	STANDARDS		POLES			MONOTUBE			LUMINAIRES
	PEDESTAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	POLES	TYPE 10	POLES	MONOTUBE	ARMS 35-FT	MONOTUBE	LUMINAIRE ARMS	UTILITY
SIGNAL	BASES	3.5-FT	13-FT	15-FT	10-FT	TYPE 10	SPECIAL	TYPE 13	ARMS 25-FT	SPECIAL	ARMS 50-FT	STEEL 15-FT	LED C
BASE NO.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
SB1	1	--	--	--	1	--	--	--	--	--	--	--	--
SB2	1	--	1	--	--	--	--	--	--	--	--	--	--
SB3	--	--	--	--	--	1	--	--	1	--	--	1	1
SB4	1	1	--	--	--	--	--	--	--	--	--	--	--
SB5	1	--	--	1	--	--	--	--	--	--	--	--	--
SB6	--	--	--	--	--	--	1	--	--	1	--	2	2
SB7	1	--	--	--	1	--	--	--	--	--	--	--	--
SB8	1	--	1	--	--	--	--	--	--	--	--	--	--
SB9	--	--	--	--	--	--	--	1	--	--	1	1	1
SB10	--	--	--	--	--	1	--	--	1	--	--	2	2
TOTAL	6	1	2	1	2	2	1	1	2	1	1	6	6

* QUANTITY SHOWN ELSEWHERE ON PLAN

ALL ITEMS CATEGORY 0050

INTERSECTION OF CTH O & RIDGE RD

3

FACES

SIGNAL BASE NO.	SIGNAL HEAD 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
SB1	25	--	--	1
SB2	15	1	--	--
SB2	17	1	--	--
SB3	16	1	--	--
SB3	24	--	--	1
SB5	1	1	--	--
SB5	12	--	1	--
SB5	23	--	--	1
SB6	4	1	--	--
SB6	8	1	--	--
SB6	9	1	--	--
SB6	10	1	--	--
SB6	13	--	1	--
SB7	22	--	--	1
SB8	14	1	--	--
SB8	20	1	--	--
SB9	5	1	--	--
SB9	7	1	--	--
SB9	18	1	--	--
SB9	19	1	--	--
SB9	21	1	--	--
SB10	2	1	--	--
SB10	3	1	--	--
SB10	6	1	--	--
SB10	11	--	1	--
	TOTAL	18	3	4

* QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.501 SIGNAL MOUNTING HARDWARE EACH
CTH O & RIDGE RD	1
TOTAL	1

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION	656.0201.501 ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH
CTH O & RIDGE RD	1
TOTAL	1

TRAFFIC SIGNAL CABINET

LOCATION	SPV.0060.502 TRAFFIC SIGNAL CONTROLLER AND CABINET EACH
CTH O & RIDGE RD	1
TOTAL	1

ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM

LOCATION	SPV.0060.504 FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM EACH
CTH O & RIDGE RD	1
TOTAL	1

VIDEO VEHICLE DETECTION SYSTEM

LOCATION	SPV.0060.501 FURNISH AND INSTALL VIDEO DETECTION SYSTEM EACH
CTH O & RIDGE RD	1
TOTAL	1

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM		TO	655.0900* TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG L.F.
CB1	SB6	(HEAD A)	350	350
CB1	SB10	(HEAD B)	185	185
CB1	SB3	(HEAD C)	290	290
CB1	SB9	(HEAD D)	305	305
		TOTAL	1130	1130

* QUANTITY SHOWN ELSEWHERE ON PLAN

EMERGENCY VEHICLE PREEMPTION

LOCATION	SPV.0060.503 FURNISH AND INSTALL EMERGENCY VEHICLE PREEMPTION SYSTEM WITH CONFIRMATION LIGHTS EACH
CTH O & RIDGE RD	1
TOTAL	1

ALL ITEMS CATEGORY 0050

3

3

SIGNING

SIGN CODE	SIGN SIZE IN.	SIGN DESCRIPTION	637.2210* SIGNS TYPE II REFLECTIVE H SF	637.2215* SIGNS TYPE II REFLECTIVE H FOLDING SF	NOTES
R1-1F	36 X 36	FOLDING STOP SIGN	--	7.46	MOUNTED ON SIGNAL POLE FOR SB2
R1-1F	36 X 36	FOLDING STOP SIGN	--	7.46	MOUNTED ON SIGNAL POLE FOR SB5
R1-1F	36 X 36	FOLDING STOP SIGN	--	7.46	MOUNTED ON SIGNAL POLE FOR SB6
R1-1F	36 X 36	FOLDING STOP SIGN	--	7.46	MOUNTED ON SIGNAL POLE FOR SB8
R1-1F	36 X 36	FOLDING STOP SIGN	--	7.46	MOUNTED ON SIGNAL POLE FOR SB9
R1-1F	36 X 36	FOLDING STOP SIGN	--	7.46	MOUNTED ON SIGNAL POLE FOR SB10
R10-50L	30 X 36	LEFT TURN YIELD ON FLASHING YELLOW ARROW	7.5	--	MOUNTED ON SIGNAL POLE FOR SB6
R10-50L	30 X 36	LEFT TURN YIELD ON FLASHING YELLOW ARROW	7.5	--	MOUNTED ON SIGNAL ARM FOR SB9
R10-50L	30 X 36	LEFT TURN YIELD ON FLASHING YELLOW ARROW	7.5	--	MOUNTED ON SIGNAL POLE FOR SB10
		TOTAL	23	45	

* QUANTITY SHOWN ELSEWHERE ON PLAN

ALL ITEMS CATEGORY 0050

3

REMOVING PULL BOXES

PULL BOX NO.	653.0905* REMOVING PULL BOXES EACH
I/C PB128	1
I/C VAULT #11	1
TOTALS	2

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVE CABLE
REINSTALL CABLE

FROM	TO	674.0300 REMOVE CABLE LF	674.0400 REINSTALL CABLE LF
EX. I/C PB127	EX. I/C PB128	661	-
EX. I/C PB128	EX. I/C VAULT #11	417	-
EX. I/C PB127	I/C PB201	-	660
I/C PB201	I/C VAULT #20	-	406
	TOTALS	1,078	1,066

PULL BACK EXISTING 48-CT FIBER CABLE TO EX. I/C PB127 FOR FUTURE INSTALLATION.

REINSTALL EXISTING CABLE FROM EX. I/C PB127 TO I/C VAULT #20.

NOTE: LEAVE 50-FEET OF FIBER OPTIC INTERCONNECT CABLE COILED IN EACH VAULT AND MANHOLE.

PULL BOXES

PULL BOX NO.	STATION	LOCATION	653.0140* PULL BOXES STEEL 24X42-INCH EACH	673.0105 COMMUNICATION VAULT TYPE 1 EACH
I/C PB201	154+92.3	62.9' RT	1	-
I/C PB202	157+91.1	11.5' LT	1	-
I/C PB203	160+15.0	11.0' RT	1	-
I/C PB204	163+15.4	11.0' RT	1	-
I/C PB205	167+69.4	5.3' LT	1	-
I/C PB206	168+90.0	6.0' RT	1	-
I/C PB207	177+50.0	8.0' RT	1	-
I/C PB208	181+50.0	6.5' RT	1	-
I/C PB209	184+89.5	63.9' RT	1	-
I/C PB210	186+85.0	8.0' RT	1	-
I/C PB211	192+00.0	8.0' RT	1	-
I/C PB212	197+34.8	70.9' RT	1	-
I/C PB213	199+05.0	8.0' RT	1	-
I/C PB214	204+00.0	3.5' LT	1	-
I/C PB215	205+60.0	3.5' LT	1	-
I/C PB216	207+05.0	8.0' RT	1	-
I/C PB217	210+75.0	8.0' RT	1	-
I/C PB218	216+20.0	4.0' LT	1	-
I/C PB219	217+50.0	8.0' RT	1	-
I/C PB220	221+35.0	9.0' LT	1	-
I/C PB221	223+10.4	73.3' RT	1	-
I/C PB222	228+00.0	8.0' RT	1	-
I/C PB223	230+57.5	8.0' RT	1	-
I/C VAULT #20	157+98.5	61.9' RT	-	1
I/C VAULT #21	174+00.0	8.0' RT	-	1
I/C VAULT #22	184+68.0	9.0' LT	-	1
I/C VAULT #23	197+05.5	9.0' LT	-	1
I/C VAULT #24	212+75.0	7.2' RT	-	1
I/C VAULT #25	223+10.0	9.0' RT	-	1
		TOTALS	23	6

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615** CONDUIT SPECIAL 3-INCH LF
EXT. 1	I/C PB201	372	-
I/C PB201	I/C VAULT #20	306	-
I/C VAULT #20	I/C PB202	74	-
I/C PB202	I/C PB203	225	-
I/C PB203	I/C PB204	301	-
I/C PB204	I/C PB205	455	-
I/C PB205	I/C PB206	122	-
I/C PB206	I/C VAULT #21	510	-
I/C VAULT #21	I/C PB207	351	-
I/C PB207	I/C PB208	400	-
I/C PB208	I/C VAULT #22	320	-
I/C VAULT #22	I/C PB210	218	-
I/C PB210	I/C PB211	515	-
I/C PB211	I/C VAULT #23	506	-
I/C VAULT #23	I/C PB213	200	-
I/C PB213	I/C PB214	496	-
I/C PB214	I/C PB215	160	-
I/C PB215	I/C PB216	146	
I/C PB216	I/C PB217	370	-
I/C PB217	I/C VAULT #24	-	200
I/C VAULT #24	I/C PB218	346	-
I/C PB218	I/C PB219	130	-
I/C PB219	I/C PB220	386	-
I/C PB220	I/C VAULT #25	176	-
I/C VAULT #25	I/C PB222	490	-
I/C PB222	I/C PB223	258	-
I/C VAULT #20	CB1 (CTH D)	51	-
I/C VAULT #22	I/C PB209	77	-
I/C PB209	CB1 (LINCOLN)	38	-
I/C VAULT #23	I/C PB212	85	-
I/C PB212	CB1 (ROGERS)	28	-
I/C VAULT #25	I/C PB221	65	-
I/C PB221	CB1 (RIDGE/BROOK)	20	-
	TOTALS	8,197	200

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

**SCHEDULE 80, INSTALLED AT A DEPTH OF 12-FT BELOW GRADE.

3

FIELD SYSTEM INTEGRATOR
ITS DOCUMENTATION
COMMUNICATION SYSTEM TESTING

LOCATION	670.0101 FIELD SYSTEM INTEGRATOR EACH	670.0201 ITS DOCUMENTATION EACH	678.0501 COMMUNICATION SYSTEM TESTING EACH
MOORLAND RD (CTH O)	1	1	1
TOTALS	1	1	1

FURNISH AND INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 48-CT

FROM	TO	SPV.0090.101 FURNISH AND INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 48-CT LF
I/C VAULT #20	I/C VAULT #22	3258
I/C VAULT #22	I/C VAULT #23	1439
I/C VAULT #23	I/C VAULT #25	3160
I/C VAULT #25	I/C PB223	898
	TOTAL	8755

NOTE: LEAVE 50-FEET OF FIBER OPTIC INTERCONNECT CABLE COILED IN EACH VAULT AND MANHOLE.

FIBER OPTIC PIGTAIL 6-CT

FROM	TO	** FIBER OPTIC PIGTAIL 6-CT LF
I/C VAULT #20	CB1 (CTH D)	150
I/C VAULT #22	CB1 (LINCOLN)	250
I/C VAULT #23	CB1 (ROGERS)	250
I/C VAULT #25	CB1 (RIDGE)	200
	TOTALS	850

**INCIDENTAL WITH DROP CABLE, FOR INFORMATION ONLY

3

FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURE
FIBER OPTIC SPLICE

LOCATION	INTERSECTION	SPV.0060.119 FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
I/C VAULT #20	CLEVELAND AVE (CTH D)	1	6
I/C VAULT #22	LINCOLN AVE	1	6
I/C VAULT #23	RODGERS DR / WOODVIEW DR	1	6
I/C VAULT #25	RIDGE RD / BROOK DR	1	6
TBD	UNDISTRIBUTED MAINLINE	2	72
TOTALS		6	96

PRE-TERMINATED PATCH PANEL WITH 6-PORTS
IP ETHERNET SWITCH WITH SINGLE MODE FIBER PORTS

LOCATION	INTERSECTION	SPV.0060.116 PRE-TERMINATED PATCH PANEL WITH 6-PORTS EACH	SPV.0060.117 IP ETHERNET SWITCH WITH SINGLE MODE FIBER PORTS EACH
CB1	MOORLAND RD (CTH O) & CLEAVELAND AVE (CTH D)	1	1
CB1	MOORLAND RD (CTH O) & LINCOLN AVE	1	1
CB1	MOORLAND RD (CTH O) & ROGERS DR/WOODVIEW DR	1	1
CB1	MOORLAND RD (CTH O) & RIDGE RD/BROOK DR	1	1
	TOTALS	4	4

SAWING ITEMS

CATEGORY	ROAD	STATION TO	STATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	CTH O (PRESTAGE)				
		149+00 -	155+00	---	656
		155+00 -	161+00	---	184
		184+50 -	190+50	---	111
		196+50 -	202+50	---	247
		202+50 -	208+50	---	519
		208+50 -	214+50	---	1,117
		214+50 -	220+50	---	1,078
		220+50 -	226+50	---	998
		226+50 -	232+50	---	1,116
	PRESTAGE SUBTOTAL			0	6,026
	CTH O (STAGE 1)				
		149+00 -	155+00	---	49
		155+00 -	161+00	---	---
		161+00 -	167+00	30	---
		167+00 -	173+00	36	---
		173+00 -	179+00	30	---
		179+00 -	184+50	---	---
		184+50 -	190+50	---	---
		190+50 -	196+50	---	---
		196+50 -	202+50	59	---
		202+50 -	208+50	59	---
		208+50 -	214+50	116	---
		214+50 -	220+50	23	15
		220+50 -	226+50	69	---
		226+50 -	232+50	---	119
	CTH D (STAGE 1)				
		342+00 -	347+75	45	---
		347+75 -	352+20	---	48
	STAGE 1 SUBTOTAL			467	231

SAWING ITEMS (CONTINUED)

CATEGORY	ROAD	STATION TO	STATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	CTH O (STAGE 2)				
		149+00 -	155+00	33	37
		155+00 -	161+00	36	---
		161+00 -	167+00	24	29
		167+00 -	173+00	42	17
		173+00 -	179+00	79	---
		179+00 -	184+50	40	19
		184+50 -	190+50	20	---
		190+50 -	196+50	33	---
		196+50 -	202+50	---	---
		202+50 -	208+50	---	---
		208+50 -	214+50	---	---
		214+50 -	220+50	---	---
		220+50 -	226+50	---	---
		226+50 -	232+50	---	29
	CTH D (STAGE 2)				
		354+28 -	359+50	144	---
		359+50 -	365+00	277	19
	STAGE 2 SUBTOTAL			728	150
			TOTAL 0010	1,195	6,407

SAWING ITEMS (CONTINUED)

CATEGORY	ROAD	STATION TO	STATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0030	W LINCOLN AVE (STAGE 1)				
		415+00 -	420+72	320	5
	W ROGERS DR (STAGE 1)				
		422+00 -	449+03	352	6
	STAGE 1 SUBTOTAL			672	11
	W LINCOLN AVE (STAGE 2)				
		422+62 -	426+00	195	5
	WOODVIEW DR (STAGE 2)				
		450+94 -	453+00	38	5
	STAGE 2 SUBTOTAL			233	10
			TOTAL 0030	905	21
			PROJECT TOTAL	**2,100**	**6,428**

BIOSWALE ITEMS

CATEGORY	ROAD	STATION TO	STATION	625.0105 TOPSOIL CY	630.0400 * SEEDING NURSE CROP LB	632.9101 LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES EACH	SPV.0035.001 ENGINEERED SOIL CY	SPV.0060.008 CONSTRUCTION STAKING BIOSWALES EACH	SPV.0085.001 NATIVE POLLINATOR SEEDING MIXTURE NO. 95A LB	SPV.0165.001 SEEDBED PREPARATION SF	SPV.0165.002 SEEDING BIOSWALE SF	SPV.0180.001 MULCHING BIOSWALE SY	SPV.0180.005 EXCAVATION OF PHRAGMITES CONTAMINATED SOIL SY
0030	W LINCOLN AVE												
		415+00 -	420+72	10	2	3	98	1	1	1,755	1,755	195	195
	STAGE 1 SUBTOTAL												
				10	2	3	98	1	1	1,755	1,755	195	195
			TOTAL 0030	10	2	3	98	1	1	1,755	1,755	195	195
			PROJECT TOTAL	**10**	**2**	**3**	**98**	**1**	**1**	**1,755**	**1,755**	**195**	**195**

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

MONUMENTS

CATEGORY	ROAD	STATION	DESCRIPTION	SPV.0060.007 SECTION CORNER MONUMENTS EACH
0010	CTH O			
		PI STA 159+08.09	CONCRETE	1
		E 1/4 CORNER OF SEC 10-06-20	MONUMENT WITH	
		W 1/4 CORNER OF SEC 11-06-2(	BRASS CAP	
		PI STA 185+67.53	CONCRETE	1
		SE CORNER OF SEC 03-06-20	MONUMENT WITH	
		SW CORNER OF SEC 02-06-20	BRASS CAP	
		NE CORNER OF SEC 10-06-20		
		NW CORNER OF SEC 11-06-20		
		PI STA 212-16.82	CONCRETE	1
		E 1/4 CORNER OF SEC 03-06-20	MONUMENT WITH	
		W 1/4 CORNER OF SEC 02-06-2(	BRASS CAP	
			TOTAL 0010	3
			PROJECT TOTAL	**3**

UTILITY LINE OPENING

CATEGORY	LOCATION		SPV.0060.006 UTILITY LINE OPENING (ULO) EACH
0010	PROJECT LENGTH		5
	STORM SEWER		2
	TRAFFIC SIGNALS		28
		TOTAL 0010	35
0020	SANITARY/WATER		3
		TOTAL 0020	3
0050	TRAFFIC SIGNALS		4
		TOTAL 0050	4
		PROJECT TOTAL	**42**

SUMP PUMP DISCHARGES

CATEGORY		* 612.0204 PIPE UNDERDRAIN UNPERFORATED 4-INCH LF	SPV.0060.001 DRAIN TILE SUMP CONNECTION EACH
0010	UNDISTRIBUTED		
		1,000	10
	TOTAL 0010	1,000	10
	PROJECT TOTAL	**1,000**	**10**

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONVENTIONAL SYMBOLS

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

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIGN
OFF-PREMISE SIGN (#1-25)

R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	⌀
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	▣	▣

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25) UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

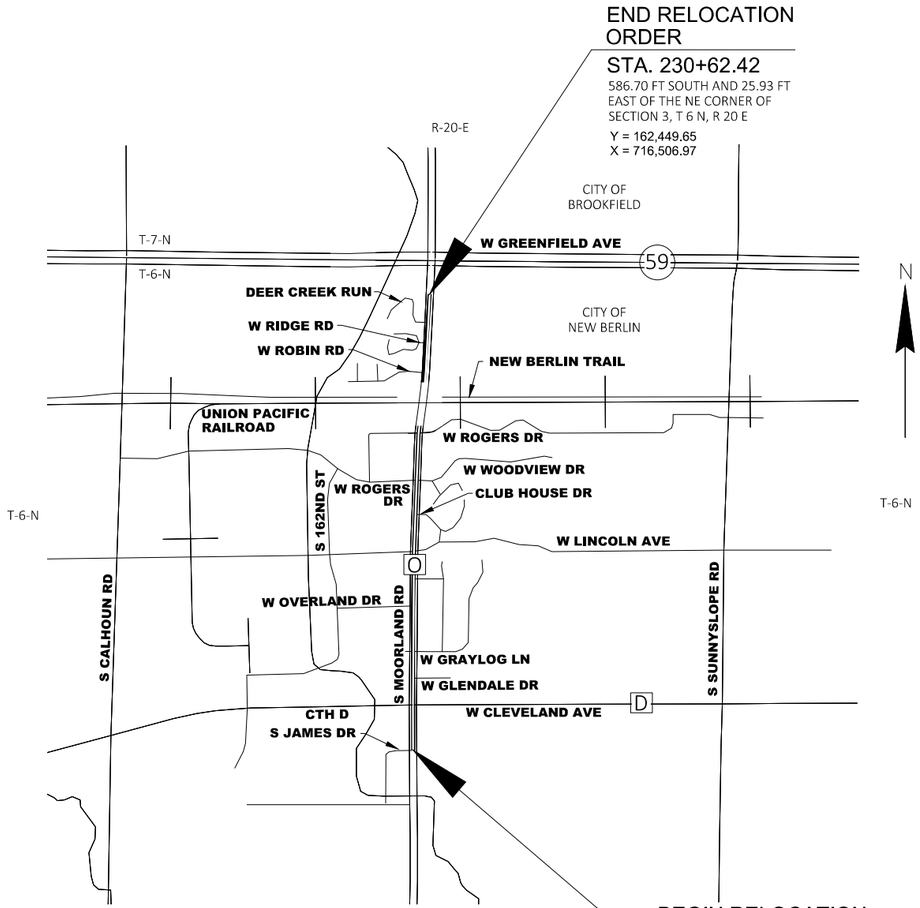
WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	☒

CONVENTIONAL ABBREVIATIONS

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

CURVE DATA ABBREVIATIONS

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



LAYOUT
SCALE 0 0.25 MI 0.5 MI

TOTAL NET LENGTH OF CENTERLINE = 1.50 MI

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
2722-04-21		
FEDERAL PROJECT NUMBER	4.01	12

PLAT OF RIGHT OF WAY REQUIRED FOR

MOORLAND ROAD (CTH O)

W CLEVELAND AVE (CTH D) TO W GREENFIELD AVE (STH 59)

MOORLAND ROAD (CTH O)	WAUKESHA COUNTY
CONSTRUCTION PROJECT NUMBER 2722-04-71	

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WAUKESHA COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

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

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE ARE LISTED ON DETAIL SHEETS.

SEE SHEET 4.12 FOR TLE STATION & OFFSET TABLES.

ORIGINAL PLAT PREPARED BY
raSmith
CREATIVITY BEYOND ENGINEERING

WISCONSIN
SHANE M. ZODROW
S-2869
GREENDALE
WI
LAND SURVEYOR

DATE: 08/22/2024
LAND SURVEYOR

REVISION DATE
02/14/2025 (2)
05/14/2025 (3)
09/23/2025 (4)
12/02/2025 (5)
02/11/2026 (6)

WAUKESHA COUNTY

APPROVED FOR WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 8-22-24 Allison Bussler (Signature)
Allison Bussler (Printed Name)
DATE: 8-22-24 (Signature)
Brett Wallace (Printed Na

FILE NAME : S:\5168825\DWG\27220401\PLAT\TITLE SHEET - SCHEDULE - LAYOUT.DWG
PLOT DATE : 2/9/2026 12:01 PM
PLOT BY : WEINREIS, CHRIS
PLOT NAME :

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND AND INTERESTS TO WAUKESHA COUNTY

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST(S) REQUIRED	R/W ACRES REQUIRED			PLE (ACRES)	TLE (ACRES)
				NEW	EXISTING	TOTAL		
1	4.04	ST. COLETTA OF WISCONSIN, INC.	TLE	-	-	-	-	0.006
2	4.04	EAT FBO HAMILTON HOLDINGS LLC	TLE	-	-	-	-	0.108
3 (2)(3)	4.04	LASALLE PROPERTIES MANAGEMENT LLC	FEE, TLE	0.132	-	0.132	-	0.076
4	4.05	ARC CAFEUSA001, LLC	FEE, TLE	0.032	-	0.032	-	0.079
5	4.05	MARY PAKULA	TLE	-	-	-	-	0.017
6	4.05	DURBIN PETROLEUM, LLC	FEE, TLE	0.004	-	0.004	-	0.010
7	4.05	KWIK TRIP, INC.	FEE, TLE	0.020	-	0.020	-	0.090
8	4.05	JEFFREY B. HOEL	TLE	-	-	-	-	0.140
9	4.05	LEE K. GAETHKE	TLE	-	-	-	-	0.069
10	4.05	ERIC KRUEGER	TLE	-	-	-	-	0.012
11	4.06	TKG III ACQUISITION, L.L.C.	TLE	-	-	-	-	0.031
12	4.06	JOHN R. & TAMMY J. FIEDLER	TLE	-	-	-	-	0.007
13	4.06	MARY C. & GREGORY G. KRAEMER	FEE, TLE	0.005	-	0.005	-	0.011
14	4.06	MICHAEL J. CYCHOSZ	FEE, TLE	0.006	-	0.006	-	0.013
15	4.06	JAMES H. CLARK	FEE, TLE	0.031	-	0.031	-	0.009
16	4.06	JEFFREY J. MICHALEK	FEE, TLE	0.001	-	0.001	-	0.023
17	4.06	DENNIS G. & JUDY L. SCHNEIDER	TLE	-	-	-	-	0.028
18	4.06 & 4.07	TIMOTHY C. & ALISA R. JOHNSON	TLE	-	-	-	-	0.022
19(4)	4.07	MGD PRODUCTS 2, LLC	FEE, TLE	0.011	-	0.011	-	0.022
20	4.07	BRUCE & DAWN BRIONES	TLE	-	-	-	-	0.018
21	4.07	JAMEIE C. JOHNSON	TLE	-	-	-	-	0.018
22	4.07	ALEJANDRA GAMBOA & JAVIER RODRIGUEZ GONZALEZ	TLE	-	-	-	-	0.034
23	4.07	KELLY & SCOTT J. FRANCKOWIAK	FEE, TLE	0.005	-	0.005	-	0.024
24	4.07	MICK & CHRISTINE A. STEINER	FEE, TLE	0.013	-	0.013	-	0.028
25 (2)	4.07	DANIEL L. & DAWN OLSON	PLE, TLE	-	-	-	0.006	0.004
26	4.07	JASON MCRAE & JILL GROSHEK	FEE	0.008	-	0.008	-	-
27 (2)	4.08	HADER INDUSTRIES, INC.	FEE, TLE	0.009	-	0.009	-	0.132
28	4.08 & 4.09	SANCTUARY OF WOODSHIRE DEVELOPMENT COMPANY, LLC	FEE, TLE	0.067	-	0.067	-	0.190
29	4.09	RUNDLE-SPENCE MFG. CO.	TLE	-	-	-	-	0.044
30	4.09	KWIK TRIP, INC.	FEE, TLE	0.008	-	0.008	-	0.061
31	4.09	ESTEBAN ARREGUIN	FEE, TLE	0.015	-	0.015	-	0.008
32	4.09	5409 FEMRITE DRIVE LLC	FEE, TLE	0.017	-	0.017	-	0.073
33	4.09	CORE & MAIN LP	FEE, TLE	0.176	-	0.176	-	0.144
34	4.10	TOP SHELF NEW BERLIN, LLC	TLE	-	-	-	-	0.005
35	4.10	WAUSAU EQUIPMENT COMPANY LLC	TLE	-	-	-	-	0.006
36(5)	4.10	ELIMINATED	-	-	-	-	-	-
37(4)	4.10	WISCONSIN ELECTRIC POWER COMPANY	TLE	-	-	-	-	0.137
38	4.10	SCOTT A. POEDTKE AND LIFE ESTATE INTEREST OF ANNA ZACHER	TLE	-	-	-	-	0.004
39	4.10	TIMOTHY S. KRAFT & MARISA E. PRONDZINSKI	FEE	0.003	-	0.003	-	-
40(4)	4.10	WISCONSIN ELECTRIC POWER COMPANY	TLE	-	-	-	-	0.262
41 (2)	4.11	ELIMINATED	-	-	-	-	-	-
42	4.11	DEER CREEK RUN APARTMENTS, LLC	TLE	-	-	-	-	0.082
43(2)(6)	4.11	THE CONSERVANCY LLC	TLE	-	-	-	-	0.162
44	4.11	CITY OF NEW BERLIN	FEE	-	0.248	0.248	-	-
45	4.11	ELIMINATED	-	-	-	-	-	-
46 (2)	4.10	JBB INVESTMENTS, LLC	FEE, TLE	0.019	0.145	0.164	-	0.015
47 (2)	4.10	ELIMINATED	-	-	-	-	-	-
48	4.10	CITY OF NEW BERLIN	FEE	-	0.412	0.412	-	-

UTILITY NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED
100 (2)	4.04, 4.05, 4.06 & 4.07	CITY OF NEW BERLIN - WATERMAIN	RELEASE OF RIGHTS
101	4.04, 4.05 & 4.09	CITY OF NEW BERLIN - SANITARY	RELEASE OF RIGHTS
102 (2)	4.04, 4.05, 4.06, 4.07, 4.08, 4.09, 4.10 & 4.11	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
103 (2)(5)	4.04, 4.05, 4.06, 4.07, 4.10 & 4.11	AT&T WISCONSIN	RELEASE OF RIGHTS
104	4.10	AMERICAN TRANSMISSION COMPANY	RELEASE OF RIGHTS
105	4.05, 4.09 & 4.10	WE ENERGIES - GAS	RELEASE OF RIGHTS
106 (2)(5)	4.10	SPRINT COMMUNICATIONS	RELEASE OF RIGHTS
107	4.05 & 4.07	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
108 (5)	4.06, 4.07 & 4.10	WINDSTREAM	RELEASE OF RIGHTS
109 (2)(4)	4.10	WIN TECHNOLOGY	RELEASE OF RIGHTS
110	4.10	CENTURYLINK	RELEASE OF RIGHTS
111	4.10	LUMEN	RELEASE OF RIGHTS
112 (4)	4.06, 4.07 & 4.11	TDS TELECOM	RELEASE OF RIGHTS

4

4

REVISION DATE
12/02/2025 (5)
02/14/2025 (2) 02/11/2026 (6)
05/14/2025 (3)
09/23/2025 (4)

DATE 08/22/2024

GRID FACTOR N/A

SCALE, FEET
0 N/A N/A

HWY: MOORLAND ROAD (CTH O)

COUNTY: WAUKESHA

STATE R/W PROJECT NUMBER 2722-04-21

CONSTRUCTION PROJECT NUMBER 2722-04-71

PLAT SHEET 4.02

PS&E SHEET 496

E

FILE NAME : TITLE SHEET - SCHEDULE - LAYOUT.DWG
LAYOUT NAME - Sheet 4.02

PLOT DATE : 2/11/2026 8:39 AM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

4

GN

T-6-N
R-20-E

T-7-N
R-20-E

CITY OF
NEW BERLIN

CITY OF
BROOKFIELD

END RELOCATION
ORDER
STA. 230+62.42
Y = 162,449.65
X = 716,506.97

BEGIN RELOCATION
ORDER
STA. 151+15.81
Y = 154,513.03
X = 716,220.63

SW 1/4 SE 1/4 SEC 10
NW 1/4 SE 1/4 SEC 10
SW 1/4 NE 1/4 SEC 10
NW 1/4 NE 1/4 SEC 10
SW 1/4 SE 1/4 SEC 3
NW 1/4 SE 1/4 SEC 3
SW 1/4 NE 1/4 SEC 3
NW 1/4 NE 1/4 SEC 3
SE 1/4 SE 1/4 SEC 10
NE 1/4 SE 1/4 SEC 10
SE 1/4 NE 1/4 SEC 10
NE 1/4 NE 1/4 SEC 10
SE 1/4 SE 1/4 SEC 3
NE 1/4 SE 1/4 SEC 3
SE 1/4 NE 1/4 SEC 3
NE 1/4 NE 1/4 SEC 3
SW 1/4 SW 1/4 SEC 11
NW 1/4 SW 1/4 SEC 11
SW 1/4 NW 1/4 SEC 11
NW 1/4 NW 1/4 SEC 11
SW 1/4 SW 1/4 SEC 2
NW 1/4 SW 1/4 SEC 2
SW 1/4 NW 1/4 SEC 2
NW 1/4 NW 1/4 SEC 2
SE 1/4 SW 1/4 SEC 11
NE 1/4 SW 1/4 SEC 11
SE 1/4 NW 1/4 SEC 11
NE 1/4 NW 1/4 SEC 11
SE 1/4 SW 1/4 SEC 2
NE 1/4 SW 1/4 SEC 2
SE 1/4 NW 1/4 SEC 2
NE 1/4 NW 1/4 SEC 2

W RYERSON RD
S JAMES DR
W CLEVELAND AVE
W OVERLAND DR
W LINCOLN AVE
W ROGERS DR
UNION PACIFIC RAILROAD
W ROBIN RD
W BROOK DR
W RIDGE RD
S MOORLAND RD
CTH O
W GLENDALE DR
W GRAYLOG LN
S RONKE LN
SCHNEIDER LN
W LINCOLN AVE
W WOODVIEW DR
W BOGEES DR
STH 59
W GREENFIELD AVE

SHEET 4.04
SHEET 4.05
SHEET 4.06
SHEET 4.07
SHEET 4.08
SHEET 4.09
SHEET 4.10
SHEET 4.11

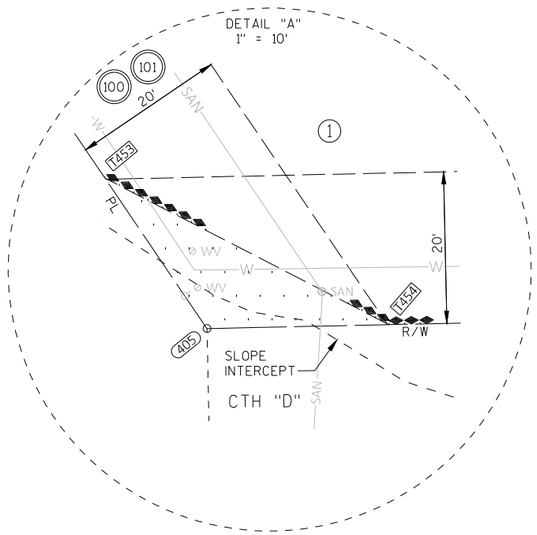
135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240

REVISION DATE 02/14/2025 (2) 05/14/2025 (N.C.) 09/23/2025 (N.C.)	12/02/2025 (5) 02/11/2026 (N.C.)	DATE 08/22/2024 GRID FACTOR N/A	SCALE, FEET 0 400 800	HWY: MOORLAND ROAD (CTH O) COUNTY: WAUKESHA	STATE R/W PROJECT NUMBER 2722-04-21 CONSTRUCTION PROJECT NUMBER 2722-04-71	PLAT SHEET 4.03 PS&E SHEET 497	E

FILE NAME : TITLE SHEET - SCHEDULE - LAYOUT.DWG
LAYOUT NAME - Sheet 4.03

PLOT DATE : 2/9/2026 12:59 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

HWY	BASIS OF EXISTING R/W	YEAR
MOORLAND RD	PROJECT S 0982(1)	1958
MOORLAND RD	PROJECT 2722-3-71	1977
MOORLAND RD	NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 2	1966
MOORLAND RD	MOORLAND INDUSTRIAL PARK	1969
MOORLAND RD	CSM 8504	1998
CLEVELAND AVE	PROJECT S 0982(1)	1958
CLEVELAND AVE	CSM 5106	1986
CLEVELAND AVE	CSM 5179	1986
CLEVELAND AVE	DOCUMENT NO. 4558996	2021
CLEVELAND AVE	CSM 8504	1998

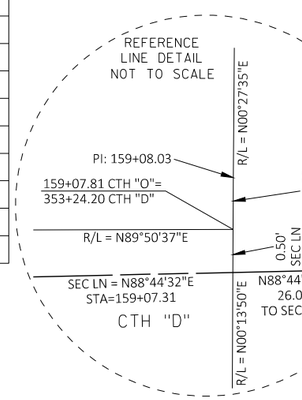


R/W COURSE TABLE		
Line #	Course	Length
400-401	N00°44'23"W	115.26'
401-402	S89°50'37"W	242.00'
402-403	S00°44'23"E	9.28'
403-410	S89°50'37"W	20.00'
410-411	N00°44'23"W	14.13'
411-404	S88°44'32"W	290.00'
405-406	N88°44'32"E	202.50'
406-407	S01°14'45"E	15.00'
407-408	N88°44'32"E	341.54'
408-409	N00°27'35"E	181.58'

R/W COURSE TABLE		
Line #	Course	Length
L1	N88°44'32"E	20.00'
L2	N01°06'35"E	15.01'
L3	N88°44'32"E	241.51'
L4	S00°44'23"E	24.89'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
400	157+00.00 "O"	80.53' LT
401	352+41.09 "D"	92.00' RT
402	349+96.04 "D"	90.39' RT
403	349+95.82 "D"	99.67' RT
404	346+86.19 "D"	80.73' RT
405	346+99.10 "D"	79.10' LT
406	349+01.58 "D"	76.21' LT
407	349+01.36 "D"	61.21' LT
408	352+40.87 "D"	62.91' LT
409	161+51.40 "O"	84.00' LT
410	349+75.83 "D"	99.00' RT
411	349+76.16 "D"	84.87' RT

FOUND
CONCRETE MONUMENT
WITH BRASS CAP
Y=155247.30
X=713617.80



PI/POT	Y	X	DELTA ANGLE
346+35.39	155,289.40	715,535.29	00°49'04" LT
350+45.65	155,304.26	715,945.28	01°55'09" RT
159+08.03	155,305.25	716,223.83	00°13'43" RT

100 CITY OF NEW BERLIN - WATERMAIN
20' EASEMENT
DOC.662489
V.1049, P.501
PARCEL 1

101 CITY OF NEW BERLIN - SANITARY
20' EASEMENT
DOC.662489
V.1049, P.501
PARCEL 1

20' EASEMENT
MOORLAND
INDUSTRIAL PARK
SUBDIVISION
DOC.744606
V.35, P.42
CSM 5179
DOC.1416308
V.42, P.207
PARCEL 2

102 WE ENERGIES - ELECTRIC
10' EASEMENT
DOC.1492009
R.1023, I.943
PARCELS 2 & 3

10' EASEMENT
DOC.753326
V.1180, P.628
CSM 5179
DOC.1416308
V.42, P.207
CSM 8504
DOC.2300071
V.74, P.285
PARCELS 2 & 3

NON DESCRIPT
EASEMENT
DOC.499294
V.807, P.227
PARCEL 3

6' EASEMENT
DOC.1404373
R.858, I.1006
PARCEL 3

103 AT&T WISCONSIN
10' EASEMENT
DOC.753326
V.1180, P.628
PARCELS 2 & 3

15' EASEMENT
DOC.1168659
R.469, I.1065
PARCELS 2 & 3

NON DESCRIPT
EASEMENT
DOC.499294
V.807, P.227
PARCEL 3

20' PRIVATE EASEMENT FOR
SANITARY SEWER AND WATER
LATERAL SERVICE TO
PARCEL 1 CSM 5106
CSM 5106
DOC.1388653
V.41, P.325
CSM 6017
DOC.1563753
V.49, P.185
PARCEL 1

GN

FOUND
CONCRETE MONUMENT
WITH BRASS CAP
Y=157964.08
X=716271.16

FOUND
CONCRETE MONUMENT
WITH BRASS CAP
Y=155305.09
X=716249.83

FOUND
CONCRETE MONUMENT
WITH ALUMINUM CAP
Y=152647.18
X=716239.12

CITY OF
NEW BERLIN

SE-NE

TAX KEY
NBC-1189-017-002

ST. COLETTA OF
WISCONSIN, INC.
1

PARCEL 1
CSM 6017
DOC.1563753
V.49, P.185

ACCESS
RESTRICTED PER
CSM 5106 & 6017

24' COMMON DRIVEWAY
EASEMENT PER CSM 5106 &
CSM 6017,
DOC.1391702, R.837, I.431
DOC.1416397, R.880, I.253 &
DOC.1566661, R.1159, I.140

MATCH LINE
SEE SHEET 4.06

PARCEL 1
CSM 5106
DOC.1388653
V.41, P.325

10' WE ENERGIES -
ELECTRIC AND AT&T
WISCONSIN EASEMENT
PER DOC.1447778,
R.939, I.87

SLOPE
INTERCEPT

SEE
DETAIL "A"

SEE R/L
DETAIL

PI: 346+35.39

PI: 350+45.65

PI: 159+08.03

N1°15'28"W
80.00'
SEC LN
TO 405

R/L=N87°55'28"E 410.26'

SEC LN=S88°44'32"W 2632.66'
STA = 159+07.31

R/L=SEC LN

10.63'

WEST CLEVELAND AVENUE

CTH "D"

CTH "O"

R/L=N89°50'37"E 278.55'

R/L=N89°50'37"E
26.00'

159+07.81 CTH "O"=
353+24.20 CTH "D"

84.04'
N88°44'32"E
26.01'

R/L=N0°27'35"E
SEC LN=N0°27'35"E 2659.07'
STATION 353+50.20 'D'

246.61'

207.98'

108.90'

SLOPE
INTERCEPT

70'

NO ACCESS PER
PROJECT
2722-03-73

2
EAT FBO HAMILTON
HOLDINGS LLC

TAX KEY
NBC-1192-001-008

LOT 1
CSM 5179
DOC.1416308
V.42, P.207

NE-SE

3
LASALLE PROPERTIES
MANAGEMENT LLC

TAX KEY
NBC-1192-001-009

PARCEL 1
CSM 8504
DOC.2300071
V.74, P.285

ACCESS RESTRICTED PER
PROJECT 2722-03-73, CSM
8504 AND DOC.1074186,
R.335, I.209

24' INGRESS
EGRESS EASEMENT
PER DOC.2298078,
R.2618, I.0001

PUBLIC DRAINAGE
CHANNEL

SOUTH MOORLAND ROAD

80.53'
N89°46'10"W
26.00'

R/L=N0°13'50"E
SEC LN=S0°13'50"W 2657.93'

MATCH LINE
SEE SHEET 4.05

REVISION DATE			
02/14/2025 (2)	12/02/2025 (N.C.)		
05/14/2025 (3)	02/11/2026 (N.C.)		
09/23/2025 (N.C.)			

DATE 08/22/2024
GRID FACTOR N/A

SCALE, FEET
0 50 100

HWY: MOORLAND ROAD (CTH O)
COUNTY: WAUKESHA

STATE R/W PROJECT NUMBER 2722-04-21
CONSTRUCTION PROJECT NUMBER 2722-04-71

PLAT SHEET 4.04
PS&E SHEET 498

E

FILE NAME : DETAIL SHEETS 4.04 TO 4.07.DWG
LAYOUT NAME - Sheet 4.04

PLOT DATE : 2/9/2026 12:02 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

4

4

FOUND CONCRETE MONUMENT WITH BRASS CAP
Y=157964.08
X=716271.16

T 6 N
3 2
10 11
R 20 E

WAUKESHA COUNTY DEVELOPMENT RESTRICTIVE EASEMENT DOC.496947 V.803, P.618 PARCEL 4

WAUKESHA COUNTY 10' LIMITED HIGHWAY EASEMENT DOC.496946 V.803, P.616 PARCEL 4

INGRESS/ EGRESS EASEMENT DOC.1107675 R.379, I.344 PARCEL 4

WAUKESHA COUNTY DEVELOPMENT RESTRICTIVE EASEMENT DOC.493041 V.797, P.369 PARCEL 6

WAUKESHA COUNTY 10' LIMITED HIGHWAY EASEMENT DOC.494285 V.799, P.158 PARCEL 10

(100) CITY OF NEW BERLIN - WATERMAIN
10' EASEMENT DOC.1174412 R.479, I.485 PARCEL 7
8' EASEMENT DOC.1169223 R.470, I.816 PARCEL 9
10' EASEMENT DOC.1163823 R.462, I.883 PARCEL 8
NO RECORD OF EASEMENT PARCEL 10

(101) CITY OF NEW BERLIN - SANITARY
10' EASEMENT DOC.1174412 R.479, I.485 PARCEL 7
8' EASEMENT DOC.1169223 R.470, I.816 PARCEL 9
10' EASEMENT DOC.1163823 R.462, I.883 PARCEL 8
NO RECORD OF EASEMENT PARCEL 10

(102) WE ENERGIES - ELECTRIC
NON DESCRIPT EASEMENT DOC.401963 V.641, P.254 PARCEL 4
6' EASEMENT DOC.499290 V.807, P.219 PARCEL 9
NON DESCRIPT EASEMENT DOC.164923 PARCELS 6, 7, 8 & 10

(103) AT&T WISCONSIN
6' EASEMENT DOC.499290 V.807, P.219 PARCEL 9
NO RECORD OF EASEMENT PARCEL 4

(105) WE ENERGIES - GAS
NO RECORD OF EASEMENT PARCEL 9

(107) CHARTER COMMUNICATIONS
NO RECORD OF EASEMENT PARCELS 4, 6 & 9

HWY	BASIS OF EXISTING R/W	YEAR
MOORLAND RD	PROJECT S 0982(1)	1958
MOORLAND RD	PROJECT 2722-3-71	1977
CLEVELAND AVE	PROJECT S 0982(1)	1958
CLEVELAND AVE	CSM 8272	1997
CLEVELAND AVE	CSM 9366	2002
CLEVELAND AVE	TOWN ROAD RECORD	UNKNOWN

GN

REFERENCE LINE DETAIL NOT TO SCALE
PI: 159+08.03
159+07.81 CTH "O"= 353+24.20 CTH "D"
R/L = N00°27'35"E
0.22' CTH "D" R/L TO CTH "O" PI
CTH "O"
R/L = N89°50'37"E
0.50' SEC LN TO R/L
SEC LN = N88°44'32"E STA=159+07.31
N88°44'32"E 26.00' TO SEC COR
CTH "D"
R/L = N00°13'50"E

MATCH LINE SEE SHEET 4.06

N89°11'15"E 26.01' 50.01'
3"IP
UNPLATTED LANDS
TAX KEY NBC-1194-993-001
ARC CAFEUSA001, LLC
(4)
LOT 1 CSM 8272 DOC.2213914 V.72, P.154
TAX KEY NBC-1194-993
PAKULA
(5)
SW-NW
LOT 2 CSM 8272 DOC.2213914 V.72, P.154
UNPLATTED LANDS
LOT 2 CSM 9366 DOC.2794387 V.85, P.139
LOT 1 CSM 9366 DOC.2794387 V.85, P.139

CTH "O"
R/L=N0°27'35"E 2659.07'
SEC LN=N0°27'35"E 2659.07'
265.70'
R/W
WALL EXEMPT FROM TLE
SLOPE INTERCEPT
SEE R/L DETAIL
1"IP
1"IR
WEST CLEVELAND AVENUE
CTH "D"
PI: 159+08.03
159+07.81 CTH "O"= 353+24.20 CTH "D"
SEC LN=N89°50'37"E 2684.83'
R/L=SEC LN
R/L=N89°50'37"E 26.00'
353' 354 355 356 357 358 359 360 361 362
S0°09'23"E 150.00'
S0°09'23"E 50.00'

FOUND CONCRETE MONUMENT WITH BRASS CAP
Y=155312.42
X=718934.64
T 6 N
11 11
11 11
R 20 E

FOUND CONCRETE MONUMENT WITH BRASS CAP
Y=155305.09
X=716249.83
T 6 N
10 11
10 11
R 20 E

SOUTH MOORLAND ROAD
R/L=N0°13'50"E 2657.93'
SEC LN=S0°13'50"W 2657.93'
STATION 353+50.20 'D'
207.98'
26.00' 50.00' N89°46'10"W
MATCH LINE SEE SHEET 4.04

(6) DURBIN PETROLEUM, LLC
TAX KEY NBC-1195-974
(7) KWIK TRIP, INC.
TAX KEY NBC-1195-973
(8) HOEL
TAX KEY NBC-1195-972
(9) GAETHKE
TAX KEY NBC-1195-971
(10) KRUEGER
TAX KEY NBC-1195-960

10' CITY OF NEW BERLIN WATERMAIN AND/OR SANITARY SEWER EASEMENT PER DOC.1174412, R.479, I.485
CITY OF NEW BERLIN SANITARY SEWER EASEMENT PER DOC.3306544
30' RESERVATION FOR HIGHWAY PURPOSES PER DOC.4235515
30' RESERVATION FOR HIGHWAY PURPOSES PER DOC.4519356
6' WE ENERGIES - ELECTRIC AND AT&T WISCONSIN EASEMENT PER DOC.497914, V.805, P.185
UNPLATTED LANDS
NW-SW
CITY OF NEW BERLIN
15' CITY OF NEW BERLIN STORM SEWER EASEMENT PER DOC.3306543
6' WE ENERGIES - ELECTRIC EASEMENT PER DOC.501503, V.811, P.322

FOUND CONCRETE MONUMENT WITH ALUMINUM CAP
Y=152647.18
X=716239.12
T 6 N
10 11
15 14
R 20 E

PI/POT	Y	X	DELTA ANGLE
159+08.03	155,305.25	716,223.83	00°13'43" RT

R/W COURSE TABLE		
Line #	Course	Length
L4	N00°13'50"E	8.00'
L5	N89°50'37"E	165.00'
L6	S00°32'55"W	6.00'
L7	S89°50'37"W	209.32'
L8	N00°27'35"E	23.00'
L9	N00°13'50"E	18.38'
L10	N89°50'37"E	18.38'

R/W COURSE TABLE		
Line #	Course	Length
500-501	S00°27'35"W	193.27'
501-502	S45°10'56"E	24.05'
502-503	N89°50'37"E	192.14'
503-504	N00°32'55"E	9.00'
504-505	N89°50'37"E	343.99'
505-506	S00°33'00"W	15.00'
506-507	N89°50'37"E	130.00'
507-508	S89°50'37"W	399.19'
508-509	S00°13'50"W	1.35'
509-510	S87°02'23"W	135.96'
510-511	S89°50'37"W	29.25'
511-512	S00°13'50"W	7.00'
512-513	S89°50'37"W	101.62'
513-514	S45°02'15"W	26.08'
514-515	S00°13'50"W	124.94'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
500	161+74.90 "O"	76.00' RT
501	354+00.99 "D"	73.00' LT
502	354+18.00 "D"	56.00' LT
503	356+10.14 "D"	56.00' LT
504	356+10.25 "D"	65.00' LT
505	359+54.24 "D"	65.00' LT
506	359+54.05 "D"	50.00' LT
507	360+84.05 "D"	50.00' LT
508	360+84.05 "D"	50.00' RT
509	356+84.86 "D"	50.00' RT
510	356+84.85 "D"	51.35' RT
511	355+49.05 "D"	58.00' RT
512	355+19.81 "D"	58.00' RT
513	355+19.76 "D"	65.00' RT
514	354+18.14 "D"	65.00' RT
515	353+99.64 "D"	83.38' RT
516	157+00.00 "O"	76.00' RT

REVISION DATE			
02/14/2025 (N.C.)	12/02/2025 (N.C.)		
05/14/2025 (N.C.)	02/11/2026 (N.C.)		
09/23/2025 (N.C.)			

DATE 08/22/2024
GRID FACTOR N/A
SCALE, FEET 0 50 100
HWY: MOORLAND ROAD (CTH O)
COUNTY: WAUKESHA
STATE R/W PROJECT NUMBER 2722-04-21
CONSTRUCTION PROJECT NUMBER 2722-04-71
PLAT SHEET 4.05
PS&E SHEET 499
E

FILE NAME : DETAIL SHEETS 4.04 TO 4.07.DWG
LAYOUT NAME - Sheet 4.05
PLOT DATE : 2/9/2026 12:04 PM
PLOT BY : WEINREIS, CHRIS
PLOT NAME :
PLOT SCALE :

4

HWY	BASIS OF EXISTING R/W	YEAR
MOORLAND RD	PROJECT 2722-3-71	1977
MOORLAND RD	NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 2	1966
MOORLAND RD	RONKE ESTATES	1954
MOORLAND RD	CSM 6017	1989
GLENDALE DR	RONKE ESTATES	1954
GLENDALE DR	PROJECT 2722-3-71	1977
GRAYLOG LN	RONKE ESTATES	1954
GRAYLOG LN	PROJECT 2722-3-71	1977

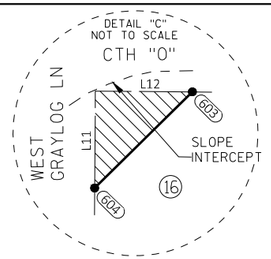
(100) CITY OF NEW BERLIN - WATERMAIN
NO RECORD OF EASEMENT PARCELS 13, 14, 15, 16, 17 & 18

(102) WE ENERGIES - ELECTRIC
EASEMENT DOC.400530 V.639, P.307 PARCEL 14
NO RECORD OF EASEMENT PARCEL 12

(103) AT&T WISCONSIN
EASEMENT DOC.400530 V.639, P.307 PARCEL 14

(108) WINDSTREAM
NO RECORD OF EASEMENT PARCELS 15, 16, 17 & 18

(112) TDS TELECOM
NO RECORD OF EASEMENT PARCELS 15, 16, 17 & 18



GN

R/W COURSE TABLE		
Line #	Course	Length
600-601	N00°27'35"E	1082.53'
602-603	S00°27'35"W	366.01'
603-604	S44°32'25"E	11.31'
604-605	S89°32'25"E	92.00'
606-607	N89°32'25"W	61.06'
607-608	S34°10'08"W	65.66'
608-609	S00°27'35"W	149.42'
609-610	N89°32'25"W	1.00'
610-611	S00°27'35"W	193.88'
611-612	N89°40'35"E	114.60'
613-614	S89°40'35"W	100.00'
614-615	S00°27'35"W	165.42'

R/W COURSE TABLE		
Line #	Course	Length
L11	N89°32'25"W	8.00'
L12	N00°27'35"E	8.00'
L13	S00°27'35"W	82.88'
L14	N89°32'25"W	2.50'
L15	N00°27'35"E	137.50'
L16	S89°32'25"E	38.94'
L17	S00°27'35"W	66.54'
L18	S00°27'35"W	53.45'
L19	N89°32'25"W	1.50'
L20	N00°27'35"E	120.00'
L21	S00°27'35"W	140.43'
L22	S89°40'35"W	1.50'
L23	N00°27'35"E	140.45'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
600	161+51.40	84.00' LT
601	172+33.93	84.00' LT
602	172+38.06	59.00' RT
603	168+72.04	59.00' RT
604	168+64.04	67.00' RT
605	168+64.04	159.00' RT
606	168+04.04	159.00' RT
607	168+04.04	97.94' RT
608	167+49.42	61.50' RT
609	166+00.00	61.50' RT
610	166+00.00	60.50' RT
611	164+06.12	60.50' RT
612	164+07.68	175.09' RT
613	163+41.69	175.99' RT
614	163+40.32	76.00' RT
615	161+74.90	76.00' RT

REVISION DATE			
02/14/2025 (N.C.)	12/02/2025 (N.C.)		
05/14/2025 (N.C.)	02/11/2026 (N.C.)		
09/23/2025 (4)			

DATE 08/22/2024	SCALE, FEET 0 50 100	HWY: MOORLAND ROAD (CTH O)	STATE R/W PROJECT NUMBER 2722-04-21	PLAT SHEET 4.06	
GRID FACTOR N/A		COUNTY: WAUKESHA	CONSTRUCTION PROJECT NUMBER 2722-04-71	PS&E SHEET — 500	E

FILE NAME : DETAIL SHEETS 4.04 TO 4.07.DWG
LAYOUT NAME - Sheet 4.06
PLOT DATE : 2/9/2026 12:06 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

HWY	BASIS OF EXISTING R/W	YEAR
MOORLAND RD	PROJECT 2722-3-71	1977
MOORLAND RD	NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 2	1966
MOORLAND RD	RONKE ESTATES	1954
MOORLAND RD	PARKLAND GREEN WEST	1968
SCHNEIDER LN	PROJECT 2722-3-71	1977
SCHNEIDER LN	RONKE ESTATES	1954
SCHNEIDER LN	PARKLAND GREEN WEST	1968
OVERLAND DR	PROJECT 2722-3-71	1977
OVERLAND DR	NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 2	1966
LINCOLN AVE	PROJECT 2722-3-71	1977
LINCOLN AVE	NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 2	1966

R/L CTH O
CURVE DATA
PI = 185+67.56
Y = 157964.69
X = 716245.17
PT = 189+19.09
DELTA = 01°45'13"
BACK = S00°27'35"W
AHEAD = N02°12'49"E
D = 00°14'58"
T = 351.59'
L = 703.13'
R = 22972.30'

R/W COURSE TABLE		
Line #	Course	Length
700-701	N00°27'35"E	328.42'
701-702	N00°27'35"E	120.09'
702-703	N00°27'35"E	820.58'
703-704	N71°40'30"W	58.50'
704-705	S88°19'30"W	397.69'
708-709	S80°05'55"W	40.62'
709-710	S30°29'51"W	24.35'
710-711	S00°27'35"W	380.25'
711-712	S89°31'04"E	50.00'
713-714	N89°31'04"W	39.47'
714-715	S52°50'18"W	31.57'
715-716	S00°27'35"W	201.06'
716-717	N89°32'25"W	2.50'
717-718	S00°27'35"W	611.94'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
700	172+33.93 "O"	84.00' LT
701	175+62.34 "O"	84.00' LT
702	176+82.43 "O"	84.00' LT
703	185+01.95 "O"	85.79' LT
704	420+25.19 "L"	40.00' RT
705	416+27.50 "L"	40.00' RT
708	185+40.76 "O"	125.86' RT
709	185+32.86 "O"	86.01' RT
710	185+11.55 "O"	74.10' RT
711	181+30.34 "O"	76.00' RT
712	181+30.32 "O"	126.00' RT
713	180+70.32 "O"	125.98' RT
714	180+70.33 "O"	86.51' RT
715	180+51.06 "O"	61.50' RT
716	178+50.00 "O"	61.50' RT
717	178+50.00 "O"	59.00' RT
718	172+38.06 "O"	59.00' RT

R/W COURSE TABLE		
Line #	Course	Length
L24	S00°27'35"W	117.02'
L25	N89°32'25"W	2.50'
L26	N00°27'35"E	136.30'
L27	S89°31'04"E	27.51'
L28	S00°27'35"W	84.04'
L29	N00°27'35"E	84.04'
L30	N88°19'30"E	35.70'
L31	N00°27'35"E	27.34'
L32	N89°34'21"E	40.46'

PLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
P725	182+87.00	75.89' RT
P726	182+87.05	90.89' RT
P727	182+68.37	90.94' RT
P728	182+68.10	75.94' RT

PLE COURSE TABLE		
Line #	Course	Length
710-P725	S00°27'35"W	223.82'
P725-P726	S89°32'25"E	15.00'
P726-P727	S00°27'35"W	18.61'
P727-P728	S89°34'28"W	15.00'
P728-711	S00°27'35"W	137.59'
P728-P725	N00°27'35"E	18.84'

CURVE TABLE				
COURSE	LENGTH	RADIUS	CHORD BEARING	CHORD
C1	30.70'	20.00'	S45°35'48"E	27.78'
C2	11.70'	292.52'	N88°25'35"E	11.70'

(100) WATERMAIN — CITY OF NEW BERLIN — NO RECORD OF EASEMENT PARCELS 18, 20, 22, 23 & 24

(103) AT&T WISCONSIN — EASEMENT DOC.400530 V.639, P.307 PARCEL 24

(107) CHARTER COMMUNICATIONS — NO RECORD OF EASEMENT PARCEL 26

(108) WINDSTREAM — NO RECORD OF EASEMENT PARCELS 21, 22, 23 & 24

(112) TDS TELECOM — NO RECORD OF EASEMENT PARCELS 20, 21, 22, 23 & 24

(102) WE ENERGIES - ELECTRIC — EASEMENT DOC.400530 V.639, P.307 PARCEL 24 — NON DESCRIPT EASEMENT DOC.309443 V.457, P.467 PARCEL 25 — NO RECORD OF EASEMENT PARCEL 26

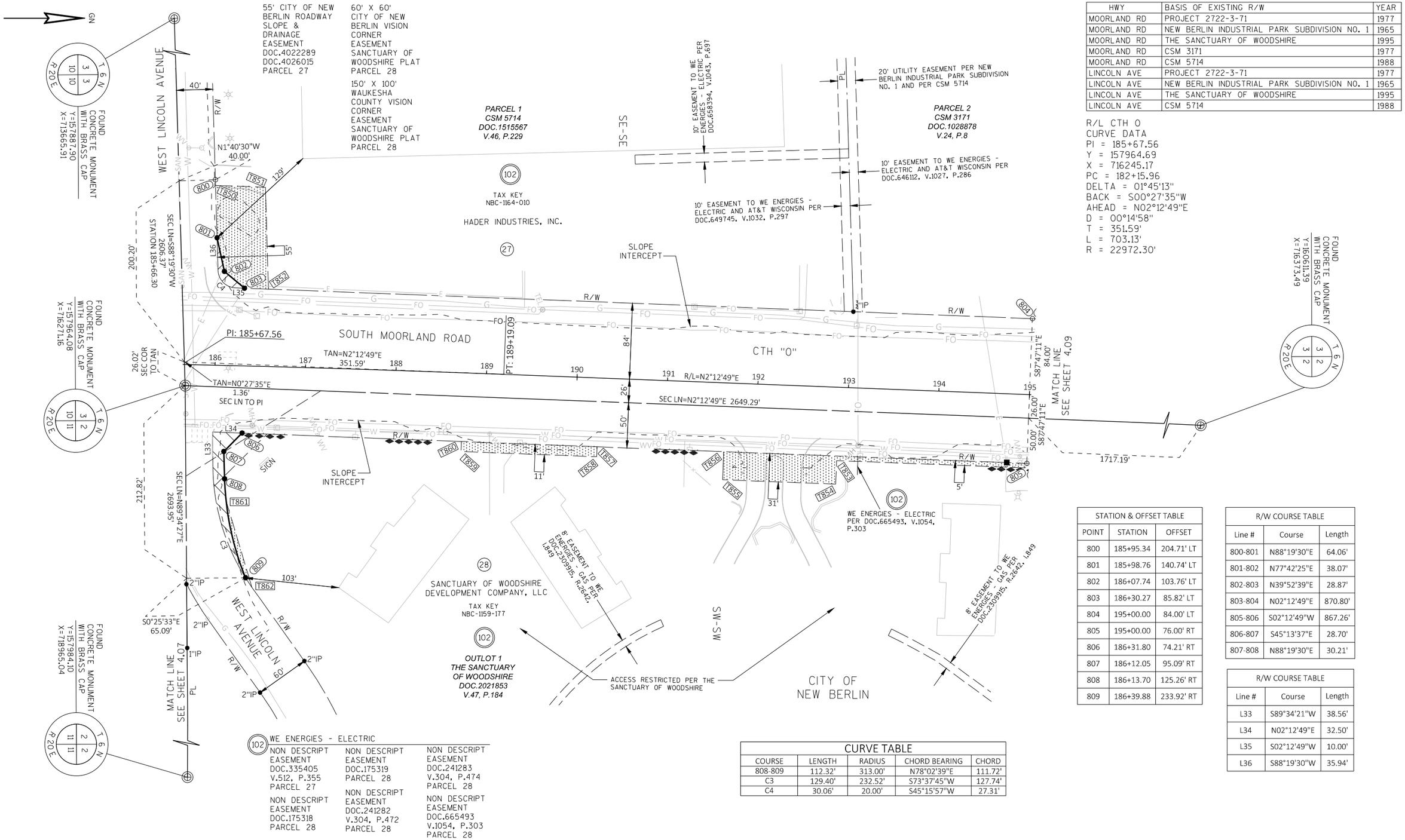
15' CITY OF NEW BERLIN DRAINAGE EASEMENT DOC.4025291 PARCEL 19

REVISION DATE				
02/14/2025 (2)	12/02/2025 (N.C.)			
05/14/2025 (N.C.)	02/11/2026 (N.C.)			
09/23/2025 (4)				

DATE 08/22/2024
GRID FACTOR N/A
SCALE, FEET 0 50 100
HWY: MOORLAND ROAD (CTH O)
COUNTY: WAUKESHA
STATE R/W PROJECT NUMBER 2722-04-21
CONSTRUCTION PROJECT NUMBER 2722-04-71
PLAT SHEET 4.07
PS&E SHEET 501
E

FILE NAME : DETAIL SHEETS 4.04 TO 4.07.DWG
LAYOUT NAME - Sheet 4.07
PLOT DATE : 2/9/2026 12:08 PM
PLOT BY : WEINREIS, CHRIS
PLOT NAME :
PLOT SCALE :

WISDOT/CADDS SHEET 75



HWY	BASIS OF EXISTING R/W	YEAR
MOORLAND RD	PROJECT 2722-3-71	1977
MOORLAND RD	NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 1	1965
MOORLAND RD	THE SANCTUARY OF WOODSHIRE	1995
MOORLAND RD	CSM 3171	1977
MOORLAND RD	CSM 5714	1988
LINCOLN AVE	PROJECT 2722-3-71	1977
LINCOLN AVE	NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 1	1965
LINCOLN AVE	THE SANCTUARY OF WOODSHIRE	1995
LINCOLN AVE	CSM 5714	1988

R/L CTH O
CURVE DATA
PI = 185+67.56
Y = 157964.69
X = 716245.17
PC = 182+15.96
DELTA = 01°45'13"
BACK = S00°27'35"W
AHEAD = N02°12'49"E
D = 00°14'58"
T = 351.59'
L = 703.13'
R = 22972.30'

102 WE ENERGIES - ELECTRIC

NON DESCRIPT EASEMENT DOC.335405 V.512, P.355 PARCEL 27	NON DESCRIPT EASEMENT DOC.175319 PARCEL 28	NON DESCRIPT EASEMENT DOC.241283 V.304, P.474 PARCEL 28
NON DESCRIPT EASEMENT DOC.175318 PARCEL 28	NON DESCRIPT EASEMENT DOC.241282 V.304, P.472 PARCEL 28	NON DESCRIPT EASEMENT DOC.665493 V.1054, P.303 PARCEL 28

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
800	185+95.34	204.71' LT
801	185+98.76	140.74' LT
802	186+07.74	103.76' LT
803	186+30.27	85.82' LT
804	195+00.00	84.00' LT
805	195+00.00	76.00' RT
806	186+31.80	74.21' RT
807	186+12.05	95.09' RT
808	186+13.70	125.26' RT
809	186+39.88	233.92' RT

R/W COURSE TABLE		
Line #	Course	Length
800-801	N88°19'30"E	64.06'
801-802	N77°42'25"E	38.07'
802-803	N39°52'39"E	28.87'
803-804	N02°12'49"E	870.80'
805-806	S02°12'49"W	867.26'
806-807	S45°13'37"E	28.70'
807-808	N88°19'30"E	30.21'

R/W COURSE TABLE		
Line #	Course	Length
L33	S89°34'21"W	38.56'
L34	N02°12'49"E	32.50'
L35	S02°12'49"W	10.00'
L36	S88°19'30"W	35.94'

CURVE TABLE				
COURSE	LENGTH	RADIUS	CHORD BEARING	CHORD
808-809	112.32'	313.00'	N78°02'39"E	111.72'
C3	129.40'	232.52'	S73°37'45"W	127.74'
C4	30.06'	20.00'	S45°15'57"W	27.31'

REVISION DATE
02/14/2025 (2)
05/14/2025 (N.C.)
09/23/2025 (N.C.)
12/02/2025 (N.C.)
02/11/2026 (N.C.)

DATE 08/22/2024
GRID FACTOR N/A
SCALE, FEET 0 50 100
HWY: MOORLAND ROAD (CTH O)
COUNTY: WAUKESHA
STATE R/W PROJECT NUMBER 2722-04-21
CONSTRUCTION PROJECT NUMBER 2722-04-71
PLAT SHEET 4.08
PS&E SHEET 502
E

FILE NAME : DETAIL SHEETS 4.08 TO 4.11.DWG
LAYOUT NAME - Sheet 4.08
PLOT DATE : 2/9/2026 12:10 PM
PLOT BY : WEINREIS, CHRIS
PLOT NAME :
PLOT SCALE :

GN

HWY	BASIS OF EXISTING R/W	YEAR
MOORLAND RD	PROJECT 2722-3-71	1977
MOORLAND RD	NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 1	1965
MOORLAND RD	THE SANCTUARY OF WOODSHIRE	1995
MOORLAND RD	CSM 3171	1977
MOORLAND RD	CSM 11474	2016
ROGERS DR	PROJECT 2722-3-71	1977
ROGERS DR	NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 1	1965
ROGERS DR	CSM 3171	1977
ROGERS DR	CSM 10141	2005
ROGERS DR	CSM 11474	2016
WOODVIEW DR	THE SANCTUARY OF WOODSHIRE	1995

R/W COURSE TABLE		
Line #	Course	Length
900-901	N02°12'49"E	244.18'
901-902	S88°30'19"W	183.81'
902-903	N82°01'56"W	60.83'
903-904	S88°30'19"W	185.00'
904-905	N88°02'06"W	198.86'
905-955	S88°30'19"W	14.50'
956-906	N88°30'19"E	398.34'
906-907	N79°11'32"E	20.06'
907-908	N40°19'45"E	33.14'
908-909	N02°12'49"E	201.14'
910-911	S02°12'49"W	136.54'
911-912	S44°45'44"E	26.54'
912-913	N88°30'09"E	6.23'
914-915	S82°01'04"E	15.94'
916-917	S81°31'53"W	74.18'
917-918	S41°37'56"W	46.99'
918-919	S02°12'49"W	242.75'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
900	195+00.00 "O"	84.00' LT
901	449+11.81 "R"	62.00' RT
902	447+28.00 "R"	62.00' RT
903	446+68.00 "R"	52.00' RT
904	444+83.00 "R"	52.00' RT
905	442+84.50 "R"	40.00' RT
906	448+78.34 "R"	40.00' LT
907	448+98.13 "R"	43.25' LT
908	198+74.39 "O"	84.00' LT
909	200+75.53 "O"	84.00' LT
910	200+09.66 "O"	76.00' RT
911	198+73.12 "O"	76.00' RT
912	450+98.00 "W"	39.00' LT
913	451+04.23 "W"	39.00' LT
914	451+63.03 "W"	34.12' LT
915	451+78.75 "W"	31.50' LT
916	451+77.13 "W"	28.48' RT
917	451+03.50 "W"	37.48' RT
918	197+42.75 "O"	76.00' RT
919	195+00.00 "O"	76.00' RT

33' INGRESS/EGRESS EASEMENT DOC.4231847 CSM 10141 DOC.3349107 V.95, P.231 PARCEL 29

102.5' DRAINAGE EASEMENT DOC.4231849 PARCEL 29

60' X 60' VISION CORNER EASEMENT CSM 10141 DOC.3349107 V.95, P.231 PARCEL 30

35' ACCESS EASEMENT CSM 11474 DOC.4221738 V.114, P.135 PARCEL 29

15' STORM WATER EASEMENT DOC.4231849 PARCEL 29

30' PRIVATE SANITARY AND WATERMAIN EASEMENT DOC.4231850 PARCEL 30

60' X 60' CITY OF NEW BERLIN VISION CORNER EASEMENT SANCTUARY OF WOODSHIRE PLAT PARCELS 28 & 31

100' X 150' WAUKESHA COUNTY EASEMENT SANCTUARY OF WOODSHIRE PLAT PARCELS 28 & 31

ACCESS RESTRICTED PER CSM 10141 AND CSM 11474

FOUND CONCRETE MONUMENT WITH BRASS CAP
Y=160611.39
X=716373.49

T 6 N
3 2
3 2
R 20 E

R/L WOODVIEW
CURVE DATA
PI = 453+99.51
Y = 159216.45
X = 716692.65
DELTA = 52°55'39"
BACK = S88°30'09"W
AHEAD = N35°34'30"E
D = 19°05'55"
T = 149.34'
L = 277.13'
R = 300.00'

R/W COURSE TABLE		
Line #	Course	Length
L37	N88°02'06"W	42.23'
L38	N01°59'26"W	9.45'
L39	N88°30'19"E	451.13'
L40	S02°12'49"W	0.71'
L41	N88°02'06"W	156.63'
L42	N88°30'19"E	156.27'
L43	S02°12'49"W	28.00'
L44	S88°30'19"W	40.08'
L45	S89°34'21"W	100.57'
L46	N02°12'49"E	25.00'
L47	N02°12'49"E	45.31'
L48	N89°34'21"E	102.84'

CURVE TABLE				
COURSE	LENGTH	RADIUS	CHORD BEARING	CHORD
913-914	59.07'	357.00'	S86°45'28"E	59.00'
C5	32.71'	20.00'	S44°38'26"E	29.18'

SOUTH RESERVOIR LANE R/W

LOT 2 CSM 10141 DOC.3349107 V.95, P.231

TAX KEY NBC-1164-997-002 RUNDLE-SPENCE MFG. CO. (29)

(102)

TAX KEY NBC-1164-997-004 KWIK TRIP, INC. (30)

LOT 1 CSM 11474 DOC.4221738 V.114, P.135

CANOPY

SIGN EXEMPT FROM TLE

LIGHT POLES EXEMPT FROM TLE

1/16TH LINE

N1°29'41"W 40.00'

SOUTH MOORLAND ROAD

MATCH LINE SEE SHEET 4.10
N88°27'12"E 84.18' 26.06' 1134.43'

SEC LIN=N2°12'49"E 2649.29'
STA = 450+25.92 'W'

S88°40'46"E 50.01' 73.87'

10' AT&T WISCONSIN EASEMENT PER DOC.1486882, R.1013, I.124

THE SANCTUARY OF WOODSHIRE DOC.2021853 V.47, P.184

LOT 66 LOT 67 LOT 69 LOT 68

20' WE ENERGIES - ELECTRIC EASEMENT PER DOC.2021859, R.2037, I.668

PT: 455+27.30

NW-SW

TAX KEY NBC-1159-176 ARREGUIN (31)

WEST WOODVIEW DRIVE

PC: 452+50.18

PI: 453+99.51

WEST ROGERS DRIVE

210.00'

R/L=N88°30'19"E

R/L=N88°30'09"E 250.31'

8' EASEMENT TO WE ENERGIES - GAS PER DOC.2309915, R.2642, I.849

ACCESS RESTRICTED PER THE SANCTUARY OF WOODSHIRE

SLOPE INTERCEPT

198+11.75 CTH "O"
450+00.00 ROGERS

CTH "O"

198+09.75 CTH "O"
449+99.87 WOODVIEW

SW-SW (28)

SANCTUARY OF WOODSHIRE DEVELOPMENT COMPANY, LLC

TAX KEY NBC-1159-177 (102)

OUTLOT 1 THE SANCTUARY OF WOODSHIRE DOC.2021853 V.47, P.184

(32) 5409 FEMRITE DRIVE LLC

TAX KEY NBC-1164-005

PARCEL 1 CSM 3171 DOC.1028878 V.24, P.8

(33) CORE & MAIN LP

TAX KEY NBC-1164-004

PARCEL 2 CSM 3171 DOC.1028878 V.24, P.8

SE-SE

CITY OF NEW BERLIN

N87°47'11"W 84.00'

N87°47'11"W 26.00' 50.00'

MATCH LINE SEE SHEET 4.08

932.10'

FOUND CONCRETE MONUMENT WITH BRASS CAP
Y=157964.08
X=716271.16

T 6 N
3 2
10 11
R 20 E

(101) CITY OF NEW BERLIN - SANITARY
NO RECORD OF EASEMENT
PARCEL 32

(102) WE ENERGIES - ELECTRIC
NON DESCRIPT EASEMENT DOC.335405 V.512, P.355 PARCELS 29, 30 & 32
NON DESCRIPT EASEMENT DOC.175318 PARCELS 28 & 31
NON DESCRIPT EASEMENT DOC.175319 PARCELS 28 & 31
NON DESCRIPT EASEMENT DOC.241282 V.304, P.472 PARCELS 28 & 31
NON DESCRIPT EASEMENT DOC.241283 V.304, P.474 PARCELS 28 & 31

(105) WE ENERGIES - GAS
NO RECORD OF EASEMENT
PARCEL 28

REVISION DATE	12/02/2025 (N.C.)				
02/14/2025 (N.C.)	02/11/2026 (N.C.)				
05/14/2025 (N.C.)					
09/23/2025 (N.C.)					

DATE 08/22/2024

GRID FACTOR N/A

SCALE, FEET 0 50 100

HWY: MOORLAND ROAD (CTH O)

COUNTY: WAUKESHA

STATE R/W PROJECT NUMBER 2722-04-21

CONSTRUCTION PROJECT NUMBER 2722-04-71

PLAT SHEET 4.09

PS&E SHEET 503

E

FILE NAME : DETAIL SHEETS 4.08 TO 4.11.DWG
LAYOUT NAME - Sheet 4.09

PLOT DATE : 2/9/2026 12:11 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

4

HWY	BASIS OF EXISTING R/W	YEAR
MOORLAND RD	PROJECT SU 1391(1)	1966
MOORLAND RD	PROJECT 2722-3-71	1977
MOORLAND RD	NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 1	1965
MOORLAND RD	THE SANCTUARY OF WOODSHIRE	1995
MOORLAND RD	WESTMOOR FARMS	1956
MOORLAND RD	TOWN ROAD RECORD	UNKNOWN
MOORLAND RD	CSM 4682	1985
MOORLAND RD	CSM 5411	1988
MOORLAND RD	CSM 11474	2016
ROGERS DR	PROJECT 2722-3-71	1977
ROGERS DR	WESTMOOR FARMS	1956

(106) SPRINT COMMUNICATIONS
NON DESCRIPT EASEMENT
DOC.4032482
PARCEL 46

R/W COURSE TABLE		
Line #	Course	Length
L55	N89°40'59"E	6.12'
L56	S07°52'43"W	133.23'
L57	S89°40'59"W	6.53'
L58	N02°12'49"E	10.04'
L59	N89°44'49"E	25.00'

R/W COURSE TABLE		
Line #	Course	Length
1026-1000	N02°12'49"E	905.25'
1000-1001	N89°40'59"E	49.23'
1001-1002	N08°03'10"E	133.29'
1002-1003	S89°40'59"W	1.34'
1003-1012	N08°15'46"E	118.01'
1013-1014	N89°44'13"E	2.38'
1014-1015	N03°12'50"E	134.09'
1016-1017	S13°44'10"W	103.14'
1017-1018	S02°12'49"W	101.84'
1018-1019	S08°01'18"W	201.92'
1019-1020	S89°44'49"W	29.59'
1020-1021	S02°12'49"W	240.45'
1021-1022	N89°44'49"E	23.02'
1023-1024	S68°13'45"W	27.34'
1024-1025	S02°12'49"W	597.63'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
1000	209+71.82	107.60' LT
1001	209+78.33	58.81' LT
1002	211+10.76	58.68' LT
1003	211+10.56	60.00' LT
1012	212+28.57	60.00' LT
1013	213+10.94	60.00' LT
1014	213+11.26	57.65' LT
1015	214+46.56	65.92' LT
1016	213+33.05	87.37' RT
1017	212+31.92	76.56' RT
1018	211+30.69	87.29' RT
1019	209+26.72	86.56' RT
1020	209+22.99	57.19' RT
1021	206+80.24	71.66' RT
1022	206+82.16	94.60' RT
1023	206+21.27	98.62' RT
1024	206+09.29	73.97' RT
1025	200+09.66	76.00' RT
1026	200+75.53	84.00' LT

CURVE TABLE				
COURSE	LENGTH	RADIUS	CHORD BEARING	CHORD
1012-1013	81.50'	5645.60'	N07°50'57"E	81.50'

GN

ACCESS RESTRICTED PER CSM 10141 AND CSM 11474

20' ACCESS EASEMENT DOC.1287674, R.658, I.679 CSM 4682 DOC.1287450 V.37, P.313 PARCELS 34 & 35

35' INGRESS/EGRESS EASEMENT PER DOC.4231847, CSM 10141 & CSM 11474

30' WATERMAIN, SANITARY SEWER, STORM SEWER AND ACCESS EASEMENT PER SOUTH MOORLAND CONDOMINIUM AND DOC.4292680

12' WE ENERGIES - ELECTRIC EASEMENT PER DOC.4324357

10' UTILITY EASEMENT PER NEW BERLIN INDUSTRIAL PARK SUBDIVISION NO. 1, CSM 4682 & CSM 5411

10' WE ENERGIES - ELECTRIC AND AT&T WISCONSIN EASEMENT PER DOC.648143, V.1030, P.568

LOT 2 CSM 11474 DOC.4221738 V.114, P.135

UNIT 1 SOUTH MOORLAND CONDOMINIUM DOC.4292679

UNIT 2 SOUTH MOORLAND CONDOMINIUM DOC.4292679

PARCEL 1 CSM 5411 DOC.1464028 V.43, P.289

PARCEL 2 CSM 4682 DOC.1287450 V.37, P.313

(102) TAX KEY NBC-1164-017 TOP SHELF NEW BERLIN, LLC (34)

(102) TAX KEY NBC-1164-001 WAUSAU EQUIPMENT COMPANY LLC (35)

SLOPE INTERCEPT

MATCH LINE SEE SHEET 4.09

FOUND CONCRETE MONUMENT WITH BRASS CAP X=716827.16 Y=159764.08

S88°27'12"W 84.18'

1440.99'

73.87'

CTH "O"

R/L=N2°12'49"E

SEC LN=N2°12'49"E 2649.29'

N88°40'46"W 50.01'

SOUTH MOORLAND ROAD

PC: 204+55.32

PI: 207+59.33

PT: 210+62.78

SEC LN=S2°04'05"W 85.00'

SEC LN=N88°41'15"E 2612.39'

COMPUTED X=713761.78 Y=160551.55

FOUND CONCRETE MONUMENT WITH BRASS CAP X=713764.85 Y=160636.50

10' EASEMENT TO WE ENERGIES - ELECTRIC AND AT&T WISCONSIN PER DOC.648143, V.1030, P.568

UNPLATTED LANDS

CITY OF NEW BERLIN

SE-NE

LOT 5

LOT 4

BLOCK 1 MOORLAND HIGHLANDS DOC.449995 V.22, P.59

(104) TAX KEY NBC-1161-954 WISCONSIN ELECTRIC POWER COMPANY (37)

(103) ACCESS RESTRICTED PER DOC.1077273, R.339, I.423 TAX KEY NBC-1161-956 POEDTKE (38)

MATCH LINE SEE SHEET 4.11

(105) 20' NE-SE

(106) TAX KEY NBC-1164-999 JBB INVESTMENTS, LLC (46)

(109) (103) (110) (111)

R/L=N8°15'46"E 165.79'

TAN=N8°15'46"E 92.84'

52°32'22"W 131.86'

N89°44'13"E 24.78'

FOUND CONCRETE MONUMENT WITH BRASS CAP X=716373.49 Y=160611.39

32.76' TO TAN

87.40' N89°33'25"E

SEC LN=N89°33'25"E 2633.38'

STA 212+28.57

(48) CITY OF NEW BERLIN TAX KEY NBC-1159-999

UNPLATTED LANDS

MS-MN

PERMANENT EASEMENT FOR HIGHWAY PURPOSES TO WISDOT PER DOC.1117899, R.393, I.907

SIGN EXEMPT FROM TLE

(40) WISCONSIN ELECTRIC POWER COMPANY TAX KEY NBC-1158-987

(104)

(102) (103) (108) (1023) (1022) (1021) (1024) L58 L59

(39) KRAFT & PRONDZINSKI TAX KEY NBC-1159-037

20' WE ENERGIES - ELECTRIC EASEMENT PER DOC.2021859, R.2037, I.668

WEST ROGERS DRIVE

S0°19'28"W 60.00'

5' WE ENERGIES - ELECTRIC AND AT&T WISCONSIN EASEMENT PER DOC.437422, V.703, P.203

LOT 66 LOT 65 LOT 64 LOT 63 LOT 68 LOT 67

THE SANCTUARY OF WOODSHIRE DOC.2021853 V.47, P.184

WOODVIEW COURT

LOT 1 LOT 2 LOT 3

BLOCK 4 WESTMOOR FARMS DOC.437421 V.21, P.32

BLOCK 1 WESTMOOR FARMS DOC.437421 V.21, P.32

R/L CTH O CURVE DATA
PI = 207+59.33
Y = 160154.88
X = 716329.82
DELTA = 06°02'58"
BACK = S02°12'49"W
AHEAD = N08°15'46"E
D = 00°59'45"
T = 304.01'
L = 607.46'
R = 5753.48'

R/L CTH O CURVE DATA
PI = 215+13.78
Y = 160902.06
X = 716438.33
PT = 217+98.52
DELTA = 05°43'24"
BACK = S08°15'46"W
AHEAD = N02°32'22"E
D = 01°00'15"
T = 285.21'
L = 569.95'
R = 5705.60'

FOUND CONCRETE MONUMENT WITH BRASS CAP X=719059.79 Y=160232.15

UNPLATTED LANDS

(102) WE ENERGIES - ELECTRIC
NON DESCRIPT EASEMENT DOC.175317 PARCEL 39
NON DESCRIPT EASEMENT DOC.335405 V.512, P.355 PARCELS 34 & 35
5' & 10' EASEMENT DOC.437422 V.703, P.203 PARCEL 39
10' EASEMENT DOC.1186915, R.500, I.933 PARCEL 46
NO RECORD OF EASEMENT PARCELS 37, 40 & 46

(103) AT&T WISCONSIN
5' & 10' EASEMENT DOC.437422 V.703, P.203 PARCEL 39
NON DESCRIPT 16.5' EASEMENT DOC.3480455 PARCEL 38

(104) AMERICAN TRANSMISSION COMPANY
NON DESCRIPT EASEMENT DOC.2615800 PARCELS 37 & 40

(105) WE ENERGIES - GAS
10' EASEMENT DOC.1464744 R.970, I.687 PARCEL 34

(108) WINDSTREAM
NO RECORD OF EASEMENT PARCEL 39

(109) WIN TECHNOLOGY
NO RECORD OF EASEMENT PARCEL 46

(110) CENTURYLINK
NO RECORD OF EASEMENT PARCELS 37, 38 & 40

(111) LUMEN
NO RECORD OF EASEMENT PARCELS 37 & 38

REVISION DATE 02/14/2025 (2) 05/14/2025 (N.C.) 09/23/2025 (N.C.)	12/02/2025 (5) 02/11/2026 (N.C.)	DATE 08/22/2024 GRID FACTOR N/A	SCALE, FEET 0 50 100	HWY: MOORLAND ROAD (CTH O) COUNTY: WAUKESHA	STATE R/W PROJECT NUMBER 2722-04-21 CONSTRUCTION PROJECT NUMBER 2722-04-71	PLAT SHEET 4.10 PS&E SHEET 504 E

FILE NAME : DETAIL SHEETS 4.08 TO 4.11.DWG
LAYOUT NAME - Sheet 4.10
PLOT DATE : 2/9/2026 12:14 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 75

HWY	BASIS OF EXISTING R/W	YEAR
MOORLAND RD	PROJECT 2722-3-71	1977
MOORLAND RD	MOORLAND HIGHLANDS	1956
MOORLAND RD	CSM 4647	1984
ROBIN RD	PROJECT 2722-3-71	1977
ROBIN RD	MOORLAND HIGHLANDS	1956
WEST BROOK DR	CSM 4647	1984
WEST RIDGE RD	CSM 4647	1984

R/L CTH O
CURVE DATA
PI = 215+13.78
Y = 160902.06
X = 716438.33
PC = 212+28.57
DELTA = 05°43'24"
BACK = S08°15'46"W
AHEAD = N02°32'22"E
D = 01°00'15"
T = 285.21'
L = 569.95'
R = 5705.60'

(102) WE ENERGIES - ELECTRIC
NON DESCRIPT EASEMENT DOC.176660 PARCEL 43

NON DESCRIPT EASEMENT DOC.327565 V.496, P.511 PARCEL 43

(103) AT&T WISCONSIN
NON DESCRIPT 16.5' EASEMENT DOC.3480455 PARCEL 43

(112) TDS TELECOM
NO RECORD OF EASEMENT PARCEL 43

R/W COURSE TABLE		
Line #	Course	Length
1100-1101	N02°32'22"E	213.69'
1102-1103	S83°06'47"E	25.32'
1103-1104	N02°32'22"E	456.73'
1104-1105	N02°32'22"E	80.00'
1105-1106	N02°32'22"E	541.72'
1107-1108	S02°32'22"W	1260.81'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
1100	214+43.72	91.05' LT
1101	216+60.86	100.27' LT
1102	217+22.11	101.40' LT
1103	217+20.50	76.12' LT
1104	221+78.28	76.65' LT
1105	222+58.28	76.65' LT
1106	228+00.00	76.65' LT
1107	225+87.25	68.10' RT
1108	213+33.05	87.37' RT

4

FOUND CONCRETE MONUMENT WITH BRASS CAP
Y=160611.39
X=716372.49

T 6 N
R 20 E
3 2

MATCH LINE
SEE SHEET 4.10

BLUE JAY CIRCLE

LOT 5

BLOCK 1
MOORLAND HIGHLANDS
DOC.449995
V.22, P.59

10' EASEMENT TO WE ENERGIES - ELECTRIC AND AT&T WISCONSIN PER DOC.45184?, V.12?, P.432

LOT 4 LOT 3 LOT 2 LOT 1

¾"IP

1-¼"IP

60'

WEST ROBIN ROAD

CITY OF NEW BERLIN

BROOKRIDGE CONDOMINIUMS

PARCEL 1
CSM 4647
DOC.1280909
V.37, P.187

WEST BROOK DRIVE

SE-NE

PARCEL 2
CSM 4647
DOC.1280909
V.37, P.187

BROOKRIDGE CONDOMINIUMS

ACCESS RESTRICTED PER PROJECT 2722-03-73 & DOC.1074187, R.335, I.212

WEST RIDGE ROAD

1/16TH LINE

UNPLATTED LANDS

NE-NE

TAX KEY
NBC-1161-992
DEER CREEK RUN APARTMENTS, LLC
(42)

SIGN EXEMPT FROM TLE

FOUND CONCRETE MONUMENT WITH BRASS CAP
Y=163036.35
X=716481.04

T 6 N
R 20 E
1 2

N2°32'22"E 60.17'

S89°44'13"W 50.06'

100.14'

131.86'

S89°33'25"W 87.40'

32.76' TO TAN

TAN=N8°15'46"E 192.37'

PI: 215+13.78

CTH "O"

PT: 217+98.52

51.9'

68.1'

50' STORM SEWER AND WATERMAIN EASEMENT PER CSM 4647

SEC LN=N2°32'22"E 2427.34'

R/L=N2°32'22"E

20' CITY OF NEW BERLIN WATERMAIN EASEMENT PER CSM 4647

SLOPE INTERCEPT 9.25'

24.25'

24.75'

S87°27'38"E 24.75'

212.75'

S87°27'38"E 51.90'

S87°27'38"E 68.10'

SOUTH MOORLAND ROAD

(44) CITY OF NEW BERLIN
TAX KEY
NBC-1158-989

SLOPE INTERCEPT

30'

11'

(43) THE CONSERVANCY LLC
TAX KEY
NBC-1158-989-006

(102) (103)

(112)

ACCESS RESTRICTED PER CSM 12740

LOT 3
CSM 12740
DOC.4844815
V.133, P.332

LOT 2
CSM 12740
DOC.4844815
V.133, P.332

LOT 1
CSM 12740
DOC.4844815
V.133, P.332

MN-MS

MN-MN

MATCH LINE
SEE SHEET 4.10

1/16TH LINE

4

REVISION DATE				
02/14/2025 (2)	12/02/2025 (N.C.)			
05/14/2025 (N.C.)	2/11/2026 (6)			
09/23/2025 (4)				

DATE 08/22/2024
GRID FACTOR N/A

SCALE, FEET
0 50 100

HWY: MOORLAND ROAD (CTH O)
COUNTY: WAUKESHA

STATE R/W PROJECT NUMBER 2722-04-21
CONSTRUCTION PROJECT NUMBER 2722-04-71

PLAT SHEET 4.11
PS&E SHEET 505

E

FILE NAME : DETAIL SHEETS 4.08 TO 4.11.DWG
LAYOUT NAME - Sheet 4.11

PLOT DATE : 2/11/2026 8:37 AM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

SHEET 4.04

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T450	352+41.22 "D"	105.00' RT
T451	350+47.41 "D"	105.00' RT
T452	346+83.15 "D"	99.00' RT
T453	346+86.35 "D"	99.43' LT
T454	347+23.10 "D"	78.76' LT
T460	349+75.69 "D"	105.00' RT

SHEET 4.05

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T550	161+50.00 "O"	76.00' RT
T551	161+50.00 "O"	82.00' RT
T552	161+00.00 "O"	82.00' RT
T553	161+00.00 "O"	76.00' RT
T554	354+01.20 "D"	92.58' LT
T555	354+27.80 "D"	66.00' LT
T556	355+64.00 "D"	66.00' LT
T557	355+92.00 "D"	95.00' LT
T558	356+37.00 "D"	70.00' LT
T559	357+20.57 "D"	70.00' LT
T560	357+20.57 "D"	65.00' LT
T561	360+49.86 "D"	50.00' RT
T562	360+49.74 "D"	68.00' RT
T563	358+53.10 "D"	68.00' RT
T564	357+63.00 "D"	93.00' RT
T565	356+84.57 "D"	93.00' RT
T566	356+84.59 "D"	90.00' RT
T567	356+10.40 "D"	90.00' RT
T568	355+99.38 "D"	69.00' RT
T569	354+14.12 "D"	69.00' RT

SHEET 4.06

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T650	167+98.00	84.00' LT
T651	167+98.00	103.00' LT
T652	168+68.00	103.00' LT
T653	168+68.00	84.00' LT
T654	172+30.00	64.00' RT
T655	172+30.00	68.50' RT
T656	171+90.00	68.50' RT
T657	171+90.00	64.00' RT
T658	170+30.00	64.00' RT
T659	170+30.00	75.00' RT
T660	169+90.00	75.00' RT
T661	169+90.00	64.00' RT
T662	168+80.04	64.00' RT
T663	168+80.04	93.00' RT
T664	168+64.04	93.00' RT
T665	167+56.17	66.00' RT
T666	165+60.00	66.00' RT
T667	165+60.00	64.00' RT
T668	164+06.16	64.00' RT
T669	163+40.57	94.00' RT
T670	163+22.57	94.00' RT
T671	163+22.32	76.00' RT

SHEET 4.07

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T750	184+95.15 "O"	85.70' LT
T751	420+06.19 "L"	40.00' RT
T752	417+12.50 "L"	40.00' RT
T753	417+12.50 "L"	46.00' RT
T754	416+27.50 "L"	46.00' RT
T758	183+25.00 "O"	75.74' RT
T759	183+25.00 "O"	80.74' RT
T760	182+87.02 "O"	80.89' RT
T762	180+70.33 "O"	93.25' RT
T763	180+36.52 "O"	74.47' RT
T764	179+90.00 "O"	69.69' RT
T765	179+90.00 "O"	65.00' RT
T766	178+75.00 "O"	65.00' RT
T767	178+75.00 "O"	75.00' RT
T768	178+40.00 "O"	75.00' RT
T769	178+40.00 "O"	64.00' RT
T770	176+85.00 "O"	64.00' RT
T771	176+85.00 "O"	75.00' RT
T772	176+25.00 "O"	75.00' RT
T773	176+25.00 "O"	64.00' RT

SHEET 4.08

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T850	185+95.67	198.55' LT
T851	186+50.32	197.84' LT
T852	186+56.61	85.51' LT
T853	192+90.00	81.00' RT
T854	192+90.00	107.00' RT
T855	191+65.00	107.00' RT
T856	191+65.00	76.00' RT
T857	190+25.00	76.00' RT
T858	190+25.00	87.00' RT
T859	188+75.00	86.96' RT
T860	188+75.00	75.96' RT
T861	186+15.97	149.36' RT
T862	186+47.27	244.22' RT

SHEET 4.09

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T950	449+11.42 "R"	68.00' RT
T951	445+58.00 "R"	68.00' RT
T952	445+58.00 "R"	75.00' RT
T953	444+41.07 "R"	75.00' RT
T954	442+70.00 "R"	50.76' RT
T955	442+70.00 "R"	40.00' RT
T956	444+80.00 "R"	40.00' LT
T957	444+80.00 "R"	56.00' LT
T958	445+99.06 "R"	56.00' LT
T959	445+99.12 "R"	49.00' LT
T960	449+03.28 "R"	49.00' LT
T961	450+93.30 "W"	44.00' LT
T962	451+04.23 "W"	44.00' LT
T963	451+63.65 "W"	39.09' LT
T964	451+29.03 "W"	34.36' RT
T965	450+93.59 "W"	72.19' RT
T966	196+00.00 "O"	76.00' RT
T967	196+00.00 "O"	81.00' RT

SHEET 4.10

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T1050	206+10.00	86.11' LT
T1051	206+10.00	96.11' LT
T1052	206+55.00	97.52' LT
T1053	206+55.00	87.52' LT
T1054	212+10.36	60.00' LT
T1055	212+01.32	120.07' LT
T1056	213+02.65	120.00' LT
T1057	213+08.54	77.46' LT
T1058	213+30.00	58.98' LT
T1059	213+47.04	195.00' RT
T1060	212+49.39	195.00' RT
T1061	209+77.66	63.82' LT
T1062	211+10.00	63.67' LT

SHEET 4.11

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T1151	225+38.38	76.65' LT
T1152	225+36.74	100.90' LT
T1153	226+00.00	100.90' LT
T1154	226+25.00	85.90' LT
T1155	228+00.00	85.90' LT
T1156	225+87.26	79.10' RT
T1157	222+85.00	79.10' RT
T1158	222+85.00	98.10' RT
T1159	221+60.00	98.10' RT
T1160	221+60.00	68.10' RT

4

4

REVISION DATE
02/14/2025 (2) 12/02/2025 (N.C.)
05/14/2025 (3) 02/11/2026 (6)
09/23/2025 (4)

DATE 08/22/2024
GRID FACTOR N/A

SCALE, FEET
0 N/A N/A

HWY: MOORLAND ROAD (CTH O)
COUNTY: WAUKESHA

STATE R/W PROJECT NUMBER 2722-04-21
CONSTRUCTION PROJECT NUMBER 2722-04-71

PLAT SHEET 4.12
PS&E SHEET 506

E

FILE NAME : TLE TABLES SHEET 4.12.DWG
LAYOUT NAME - Sheet 4.12

PLOT DATE : 2/11/2026 8:19 AM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

N

2775
LANDMARK CREDIT UNION

2725
LASALLE PROPERTIES MANAGEMENT LLC

CONC

JAMES DRIVE

EXISTING R/W

SLOPE INTERCEPT

SEE PAVING DETAILS FOR LIMITS
OF CURB & GUTTER REPLACEMENT

CTH O SB PGL

CTH O (S MOORLAND ROAD)

15'
12'
11'
11'

150+00 'O'
151+00 'O'
152+00 'O'
153+00 'O'
154+00 'O'
155+00 'O'
156+00 'O'
157+00 'O'

14'

CTH O R/L

490' LT TURN

MATCHLINE STA 157+50

CTH O NB PGL

11'
12'
11'

215' RT TURN

PE 21'
PE 12'
PE 15'

CE 36'

EXISTING R/W

2810
REEVES

2800
GASPER

2786
WIITALA FAMILY TRUST

2762
PATTERSON

15551
VANCALLE NEW BERLIN LLC

CAUTION

SLOPE INTERCEPT

BEGIN PROJECT
STA 151+15.81
Y = 154,512.96
X = 716,237.63

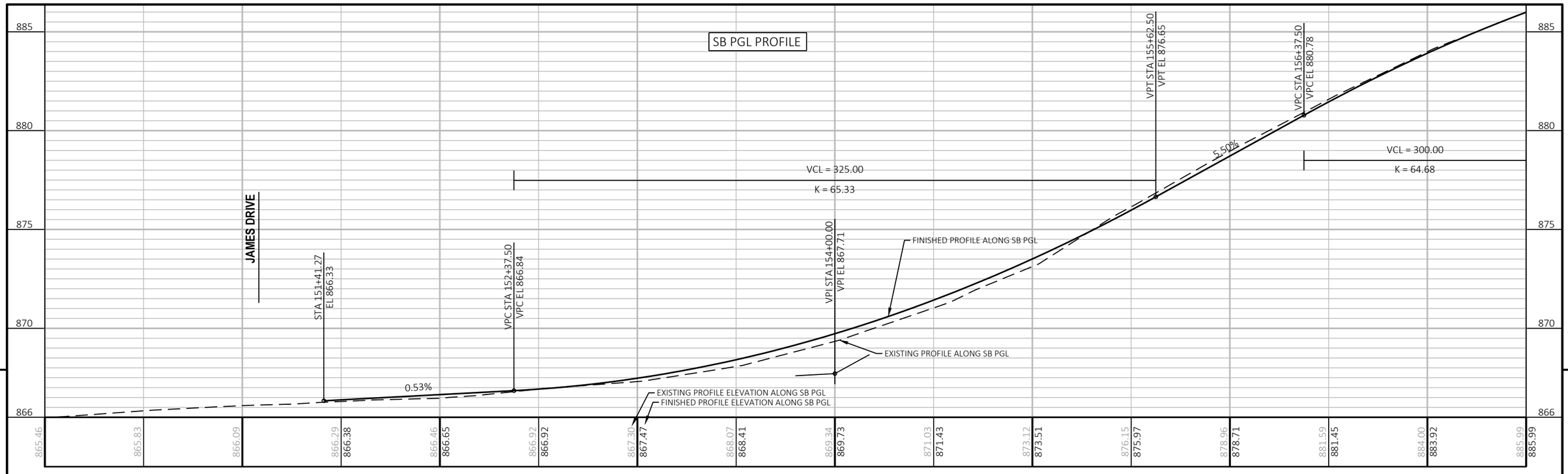
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 507	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 001

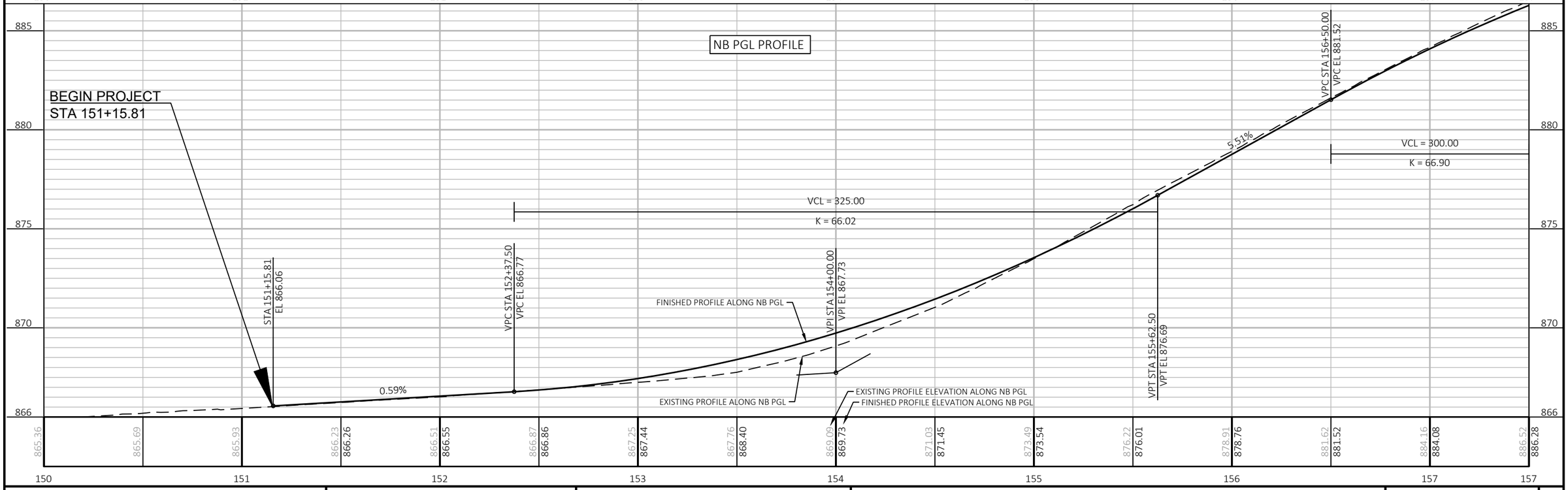
PLOT DATE : 4/28/2026 12:31 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

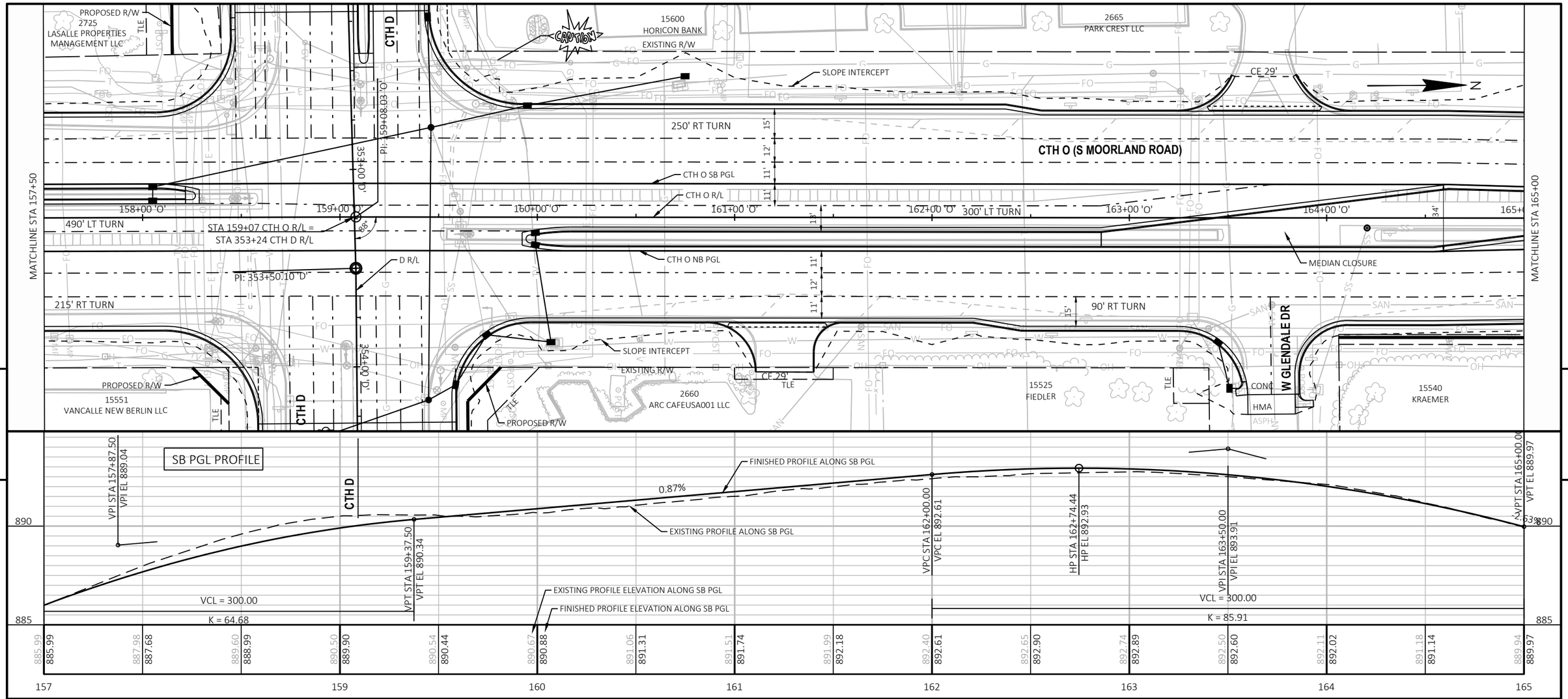
SB PGL PROFILE

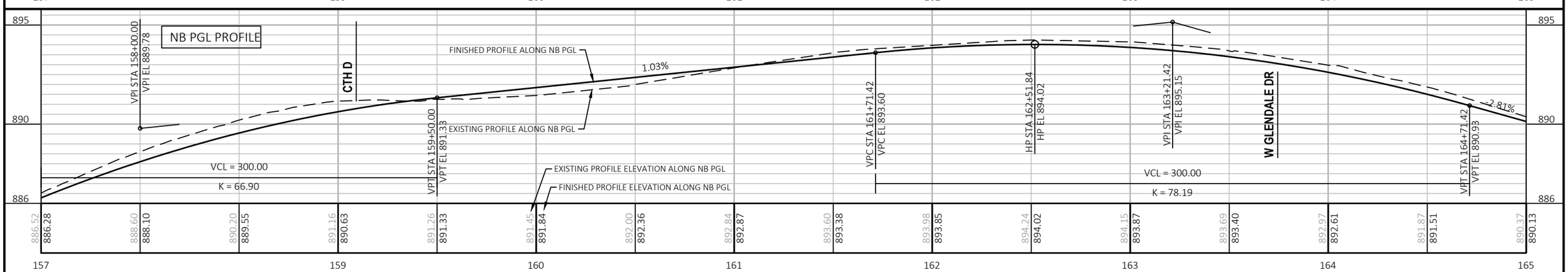


NB PGL PROFILE



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 508	E



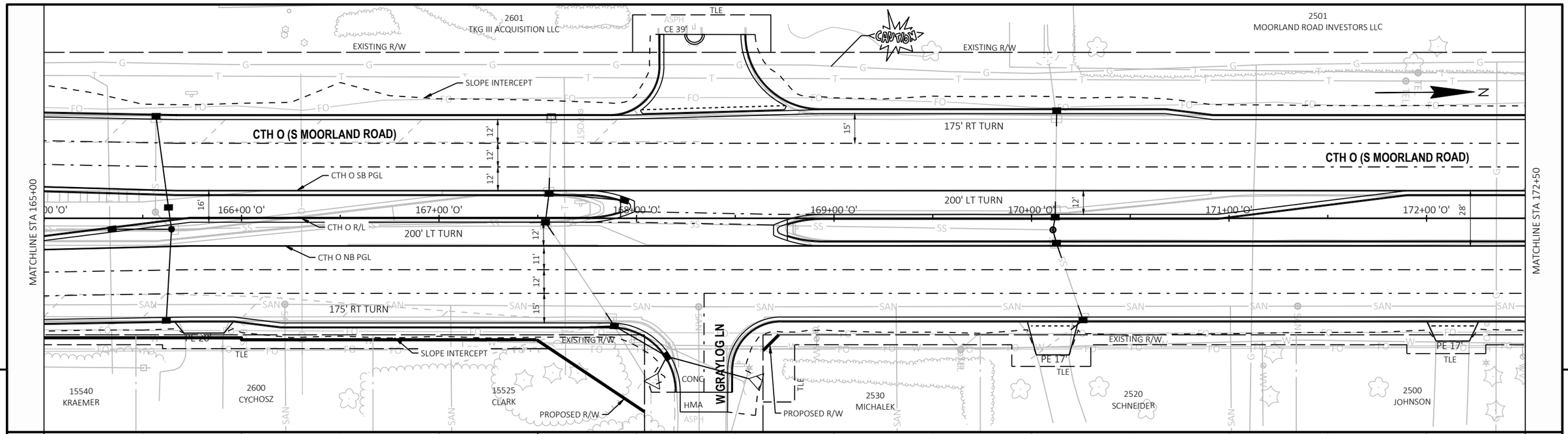


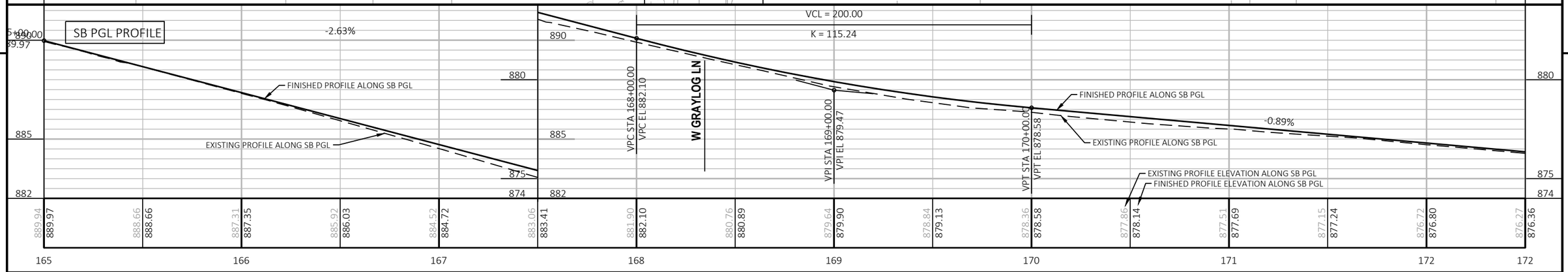
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 509 E

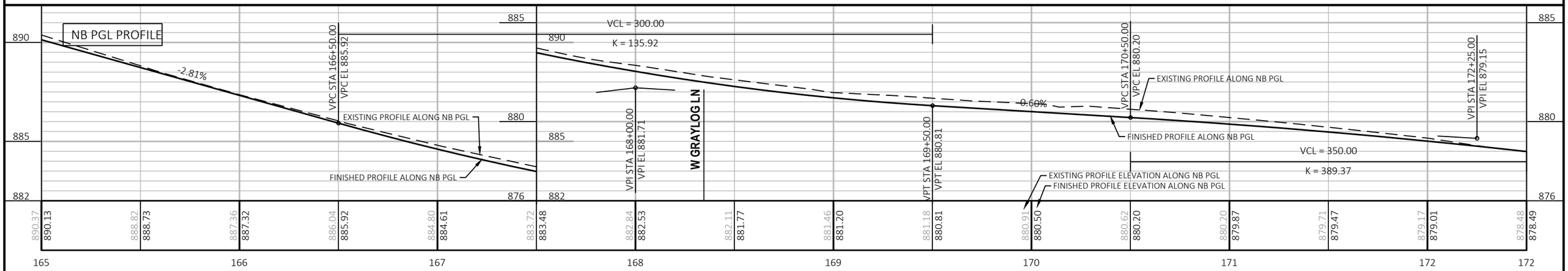
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 002

PLOT DATE : 4/28/2026 12:32 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44





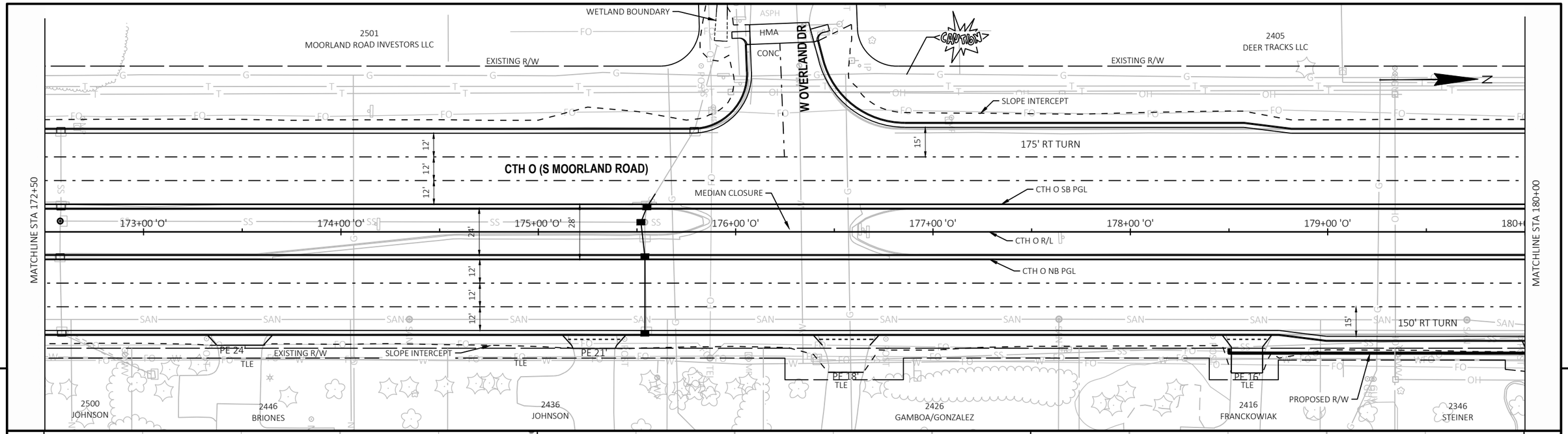


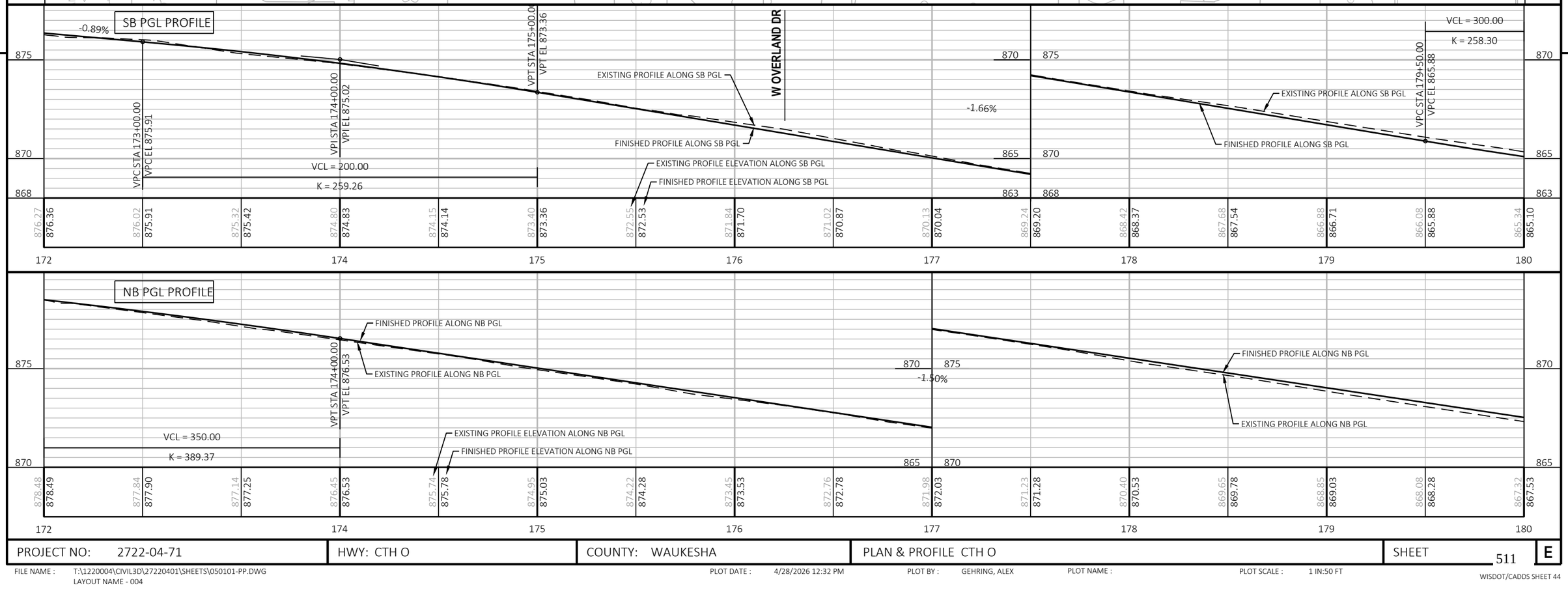
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 510	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 003

PLOT DATE : 4/28/2026 12:32 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



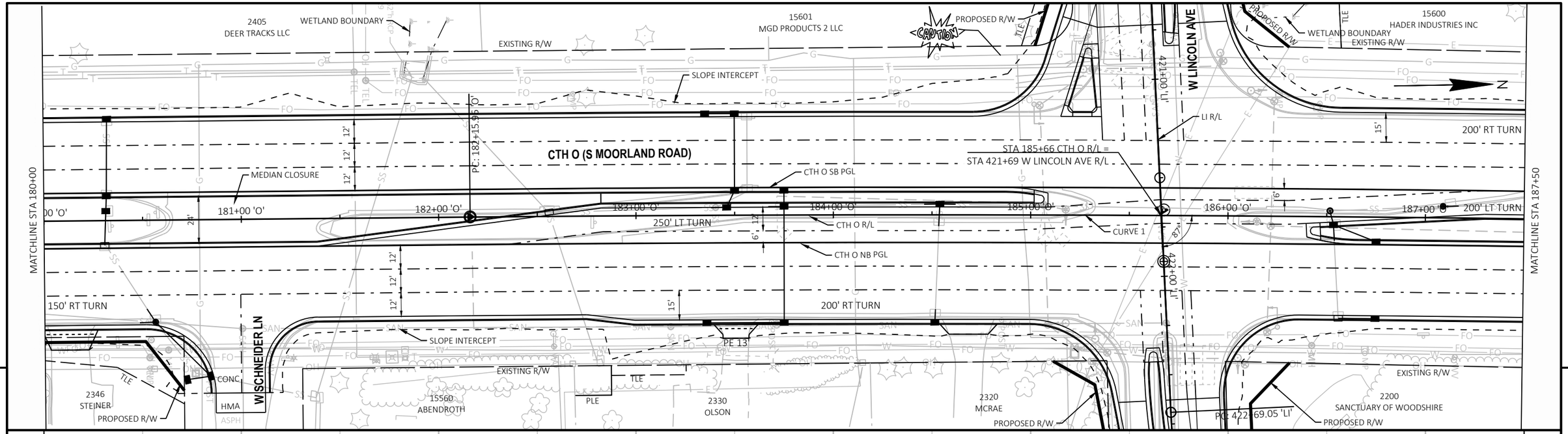


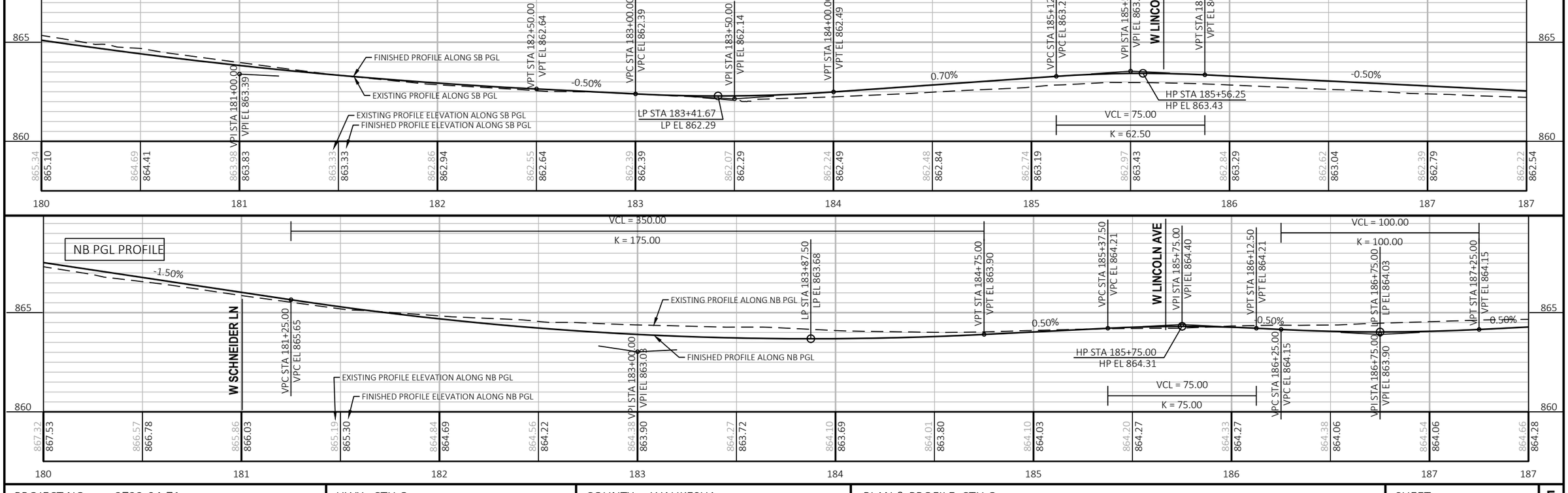
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 511	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 004

PLOT DATE : 4/28/2026 12:32 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

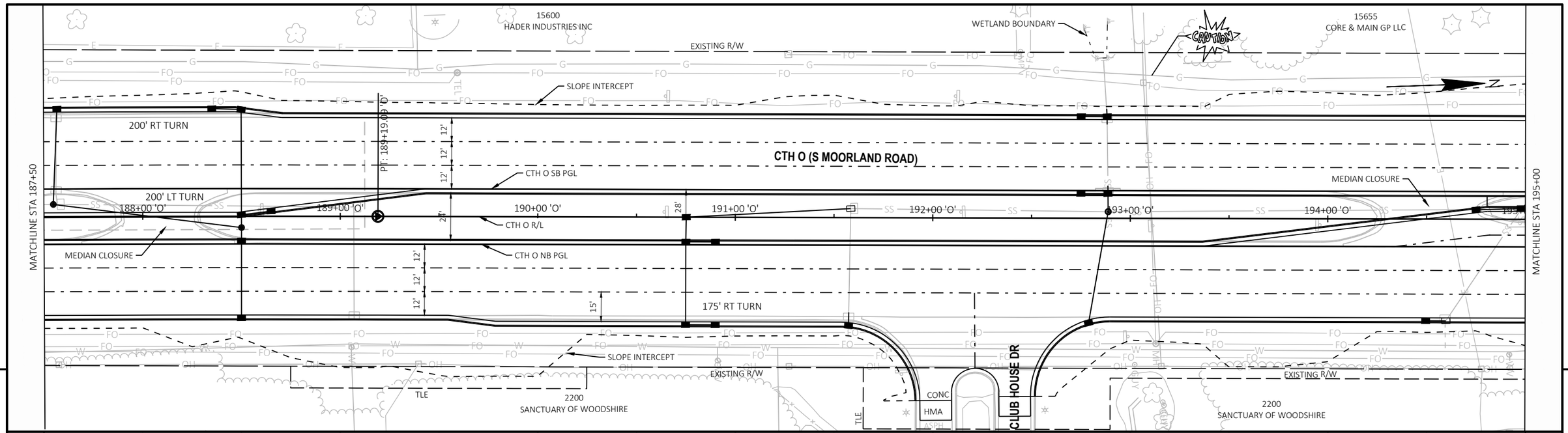
WISDOT/CADDS SHEET 44

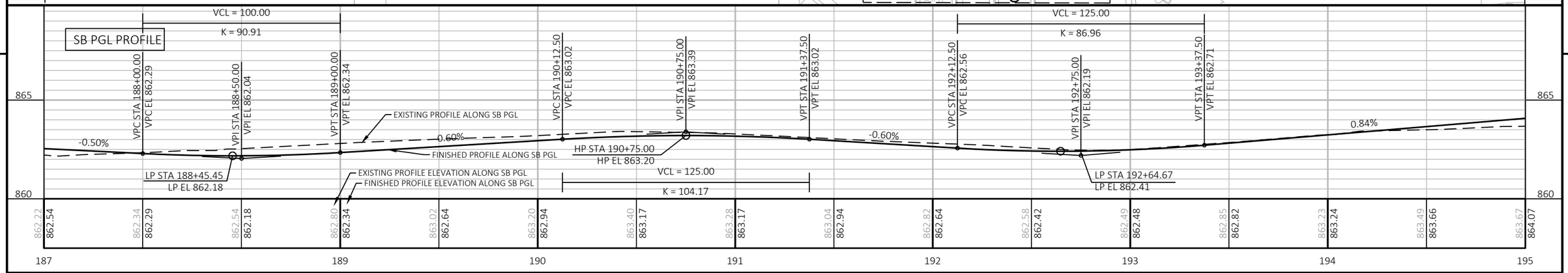




PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 512	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 005
PLOT DATE : 4/28/2026 12:32 PM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



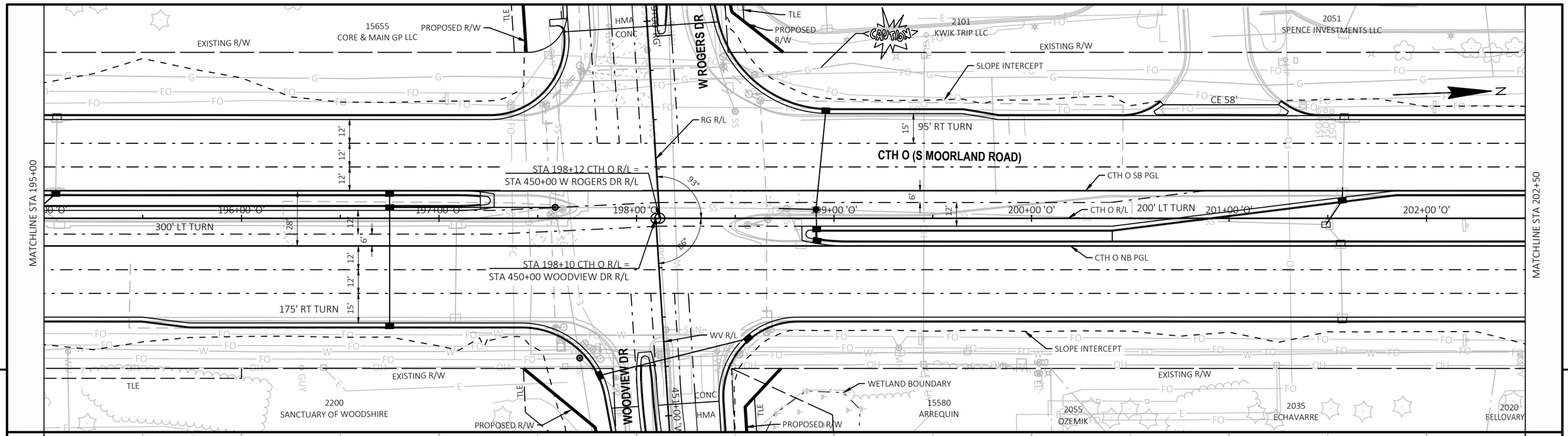


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 513	E

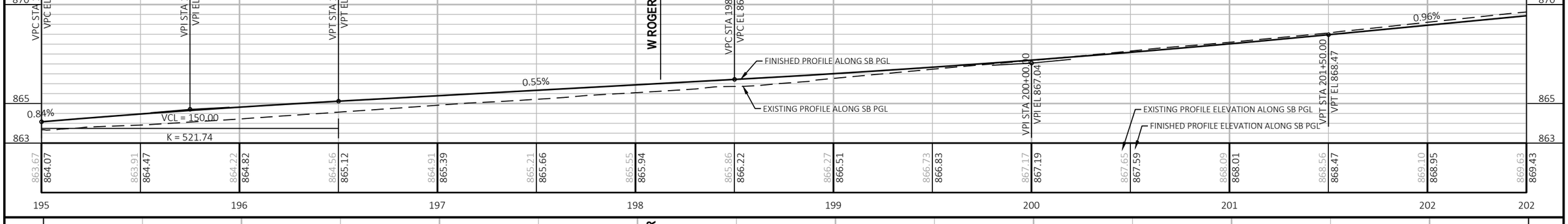
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 006

PLOT DATE : 4/28/2026 12:33 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

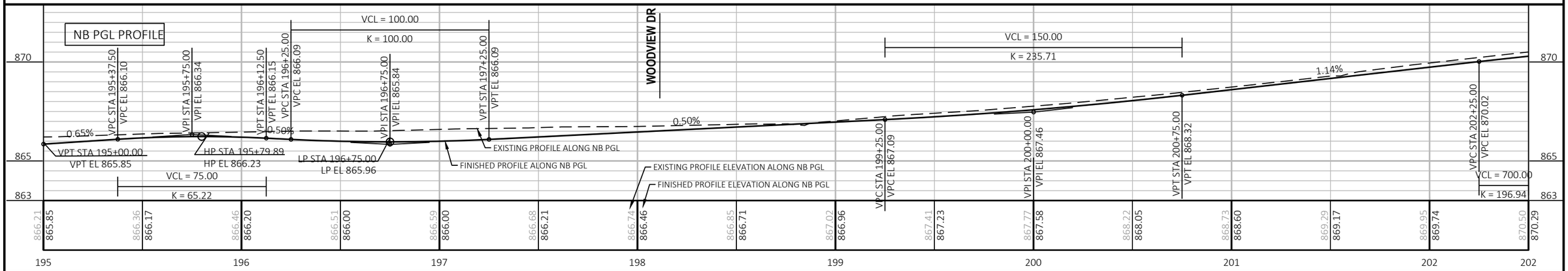
WISDOT/CADDS SHEET 44



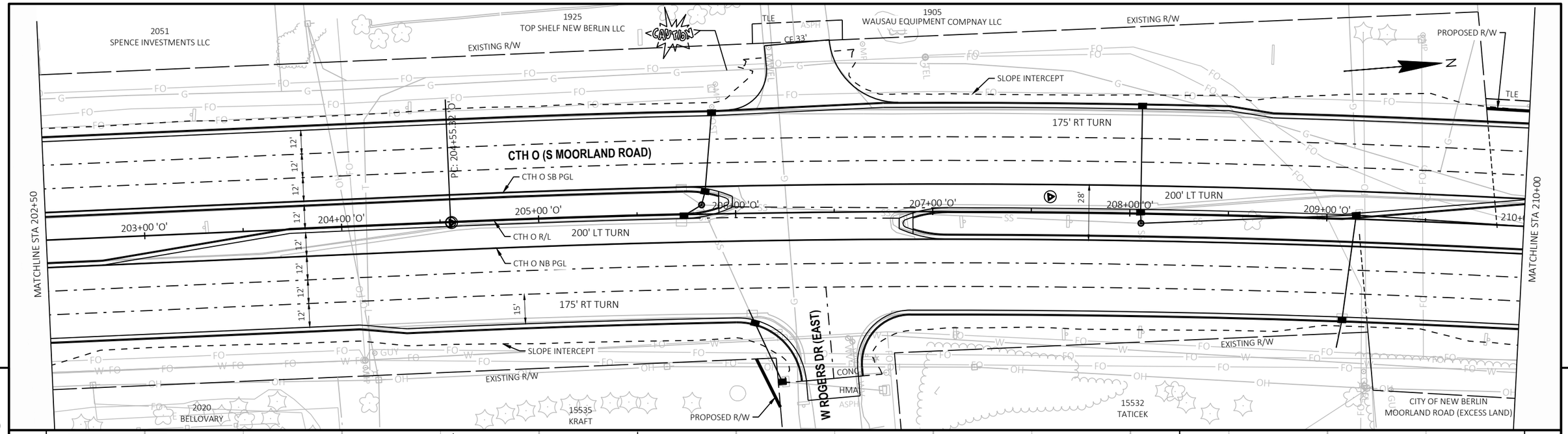
SB PGL PROFILE



NB PGL PROFILE



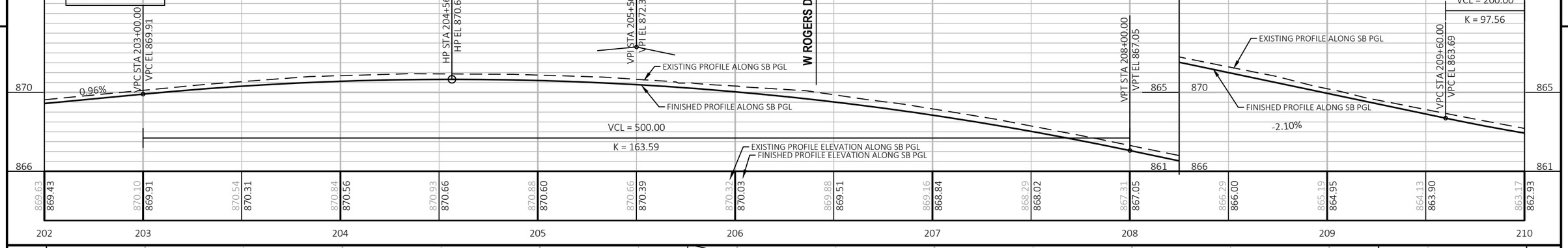
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 514	E



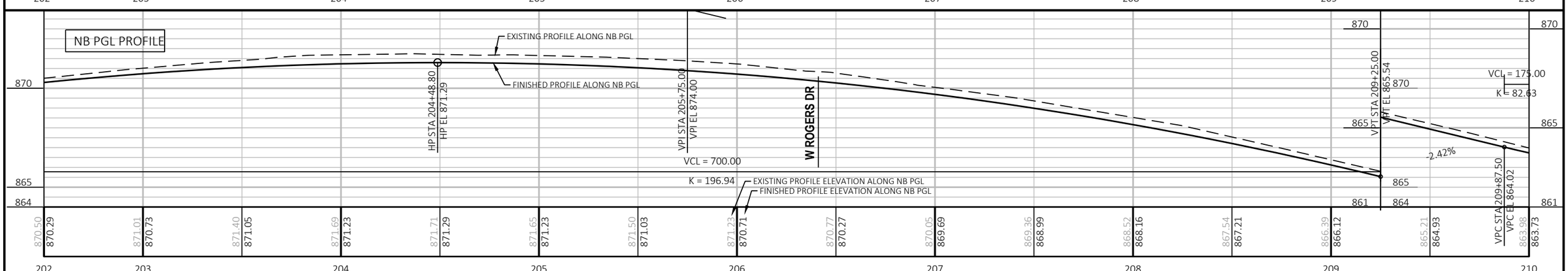
5

5

SB PGL PROFILE



NB PGL PROFILE



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 515	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 008
PLOT DATE : 4/28/2026 12:33 PM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

5

1901
JBB INVESTMENTS LLC

WETLAND BOUNDARY

CLEANING CULVERT PIPE
(EXISTING 18" STORM SEWER
TO REMAIN)

PROPOSED R/W

TLE

EXISTING CONCRETE
PANELS TO REMAIN

NEW BERLIN TRAIL

WIS ELECTRIC POWER CO

NOTE: REDUCE TO 1' BASE EXTENSION FROM
STA 212+75 TO 213+25

1855
POEDTKE

1825
WILCOX

15601 ZENDEJAS

W ROBIN RD

EXISTING R/W

HMA

CONC

SLOPE INTERCEPT

CAUTION

PE 20'

PE 15'

PC: 210+62.78'

PC: 212+28.57'

CE 29'

MATCHLINE STA 210+00

211+00 'O'

212+00 'O'

213+00 'O'

214+00 'O'

215+00 'O'

216+00 'O'

217+00 'O'

MATCHLINE STA 217+50

CTH O SB PGL

CTH O (S MOORLAND ROAD)

CTH O R/L

CTH O NB PGL

RESTRICTED MEDIAN
(LEFT-IN; RIGHT-OUT)

150' LT TURN

12'

15'

28'

6'

10'

PE 29'

SLOPE INTERCEPT

EXISTING R/W

CITY OF NEW BERLIN
MOORLAND ROAD (EXCESS LAND)

CLEANING CULVERT PIPE
(EXISTING 18" CULVERT PIPE TO REMAIN)

EXISTING CONCRETE
PANELS TO REMAIN

UNION PACIFIC
RAILROAD

CLEANING CULVERT PIPE
(EXISTING 24" STORM SEWER
TO REMAIN)

TLE

1750
HIGHLAND MEMORIAL PARK INC

WETLAND BOUNDARY

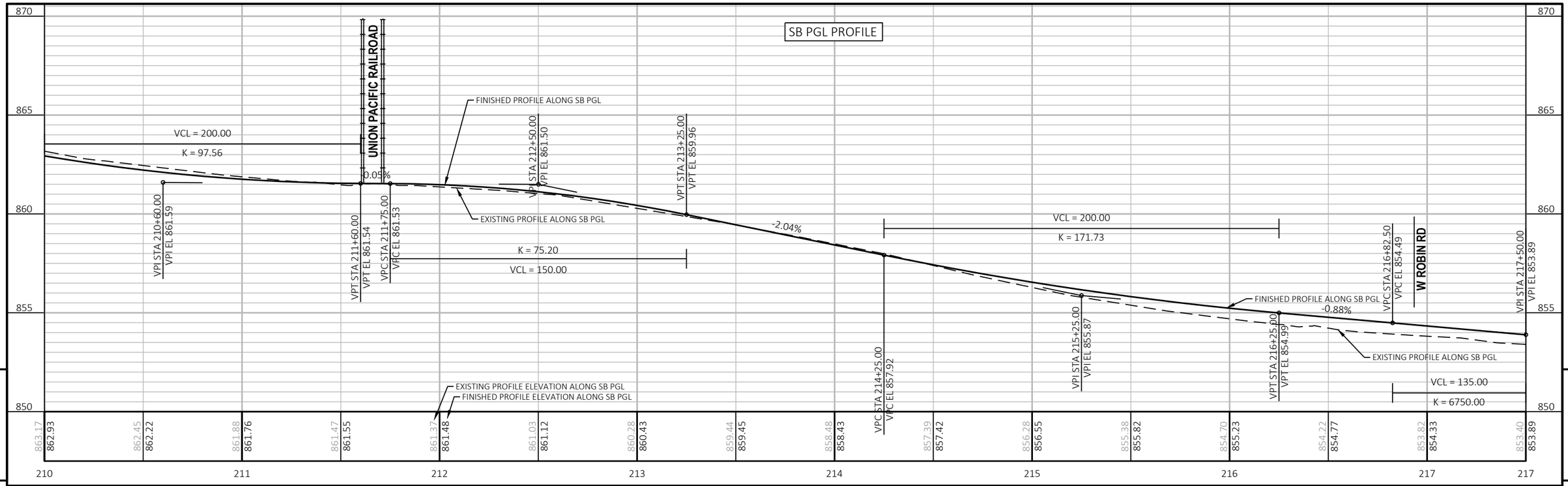
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 516	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 009

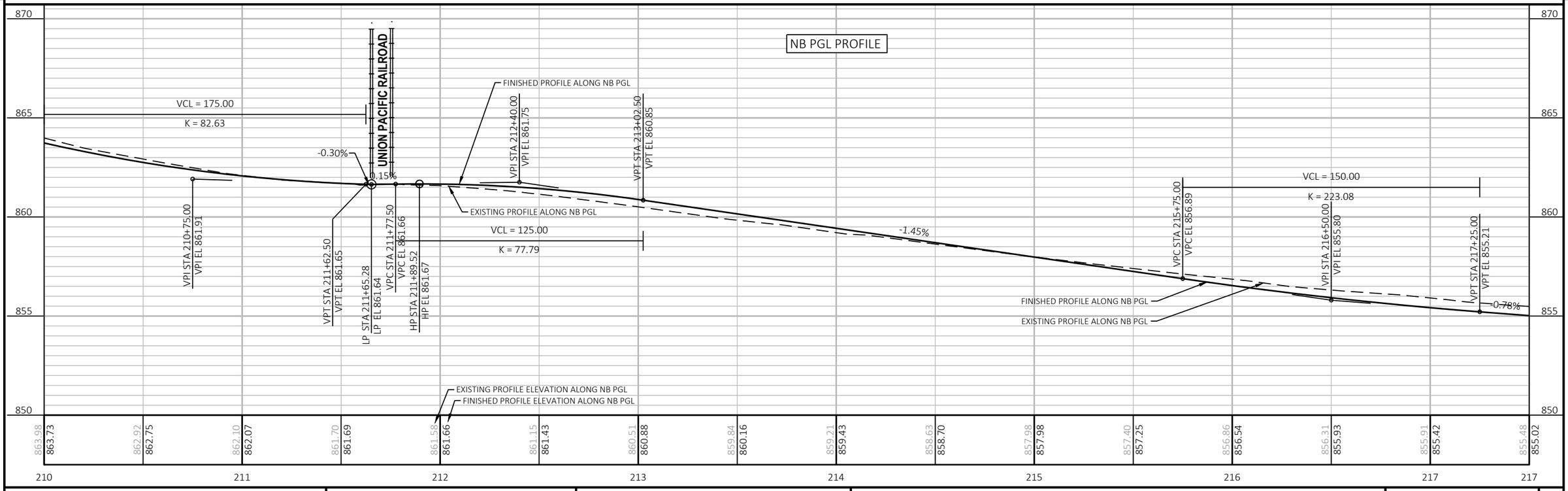
PLOT DATE : 5/11/2026 1:43 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

SB PGL PROFILE



NB PGL PROFILE

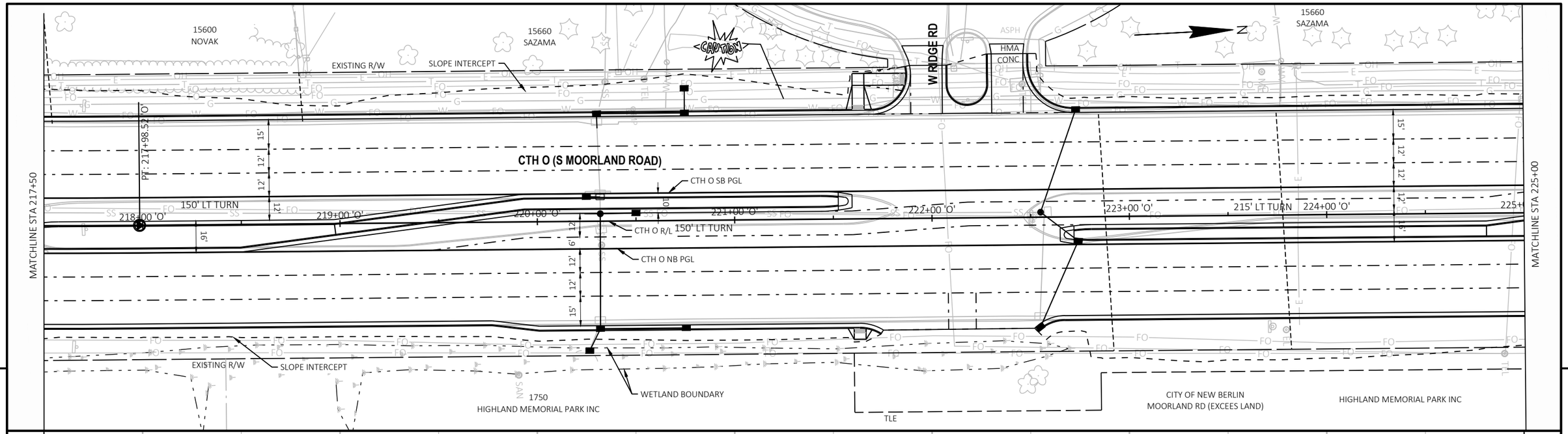


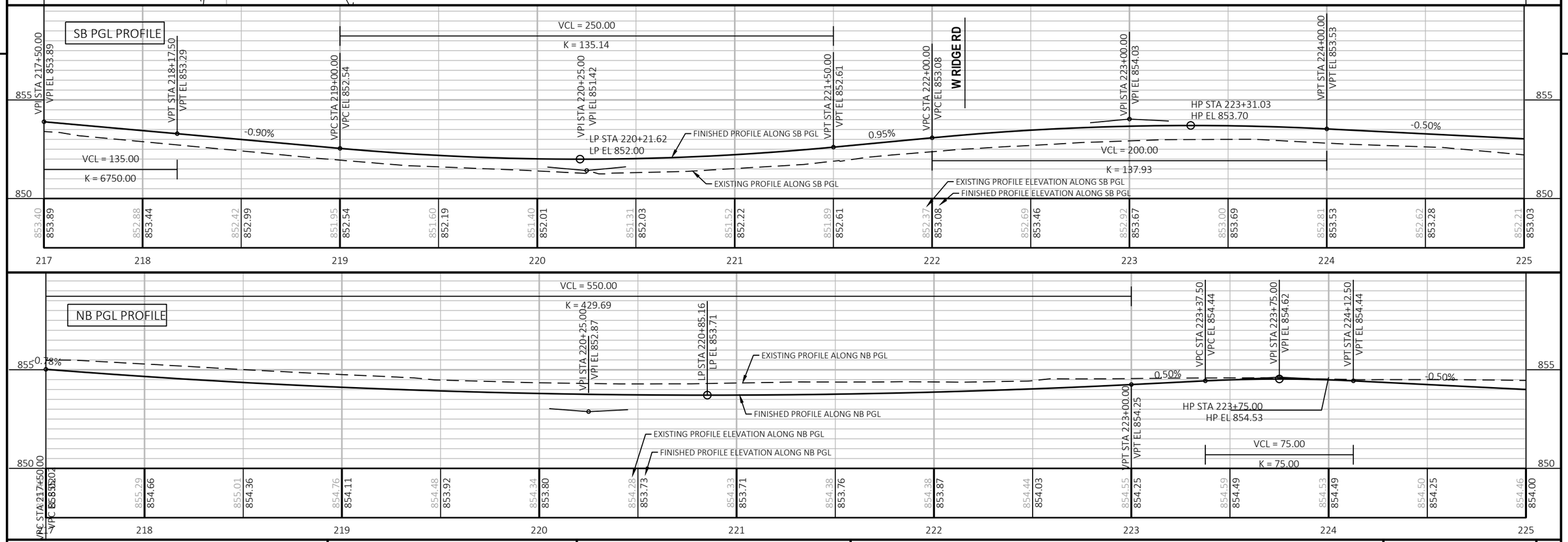
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 517	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 009 (B)

PLOT DATE : 4/28/2026 12:34 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44



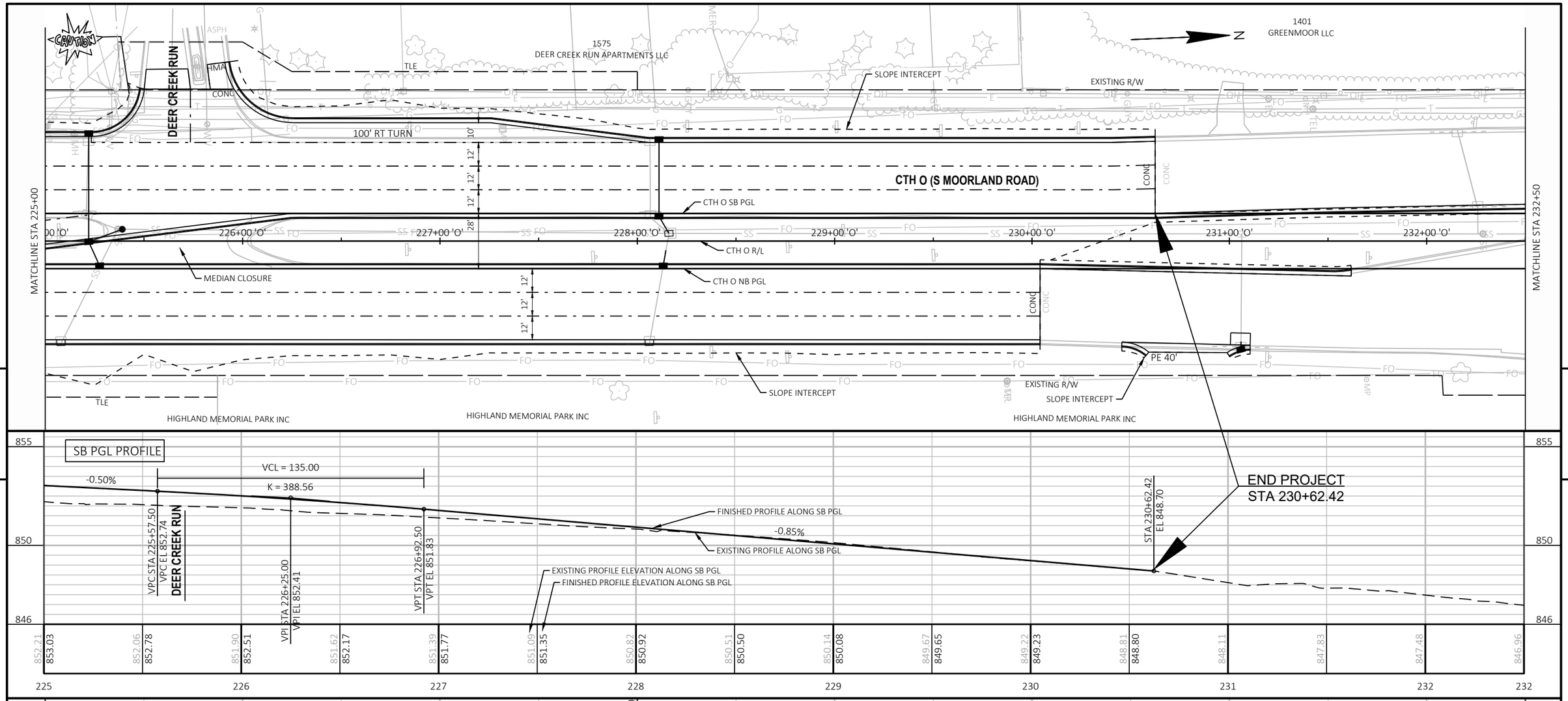


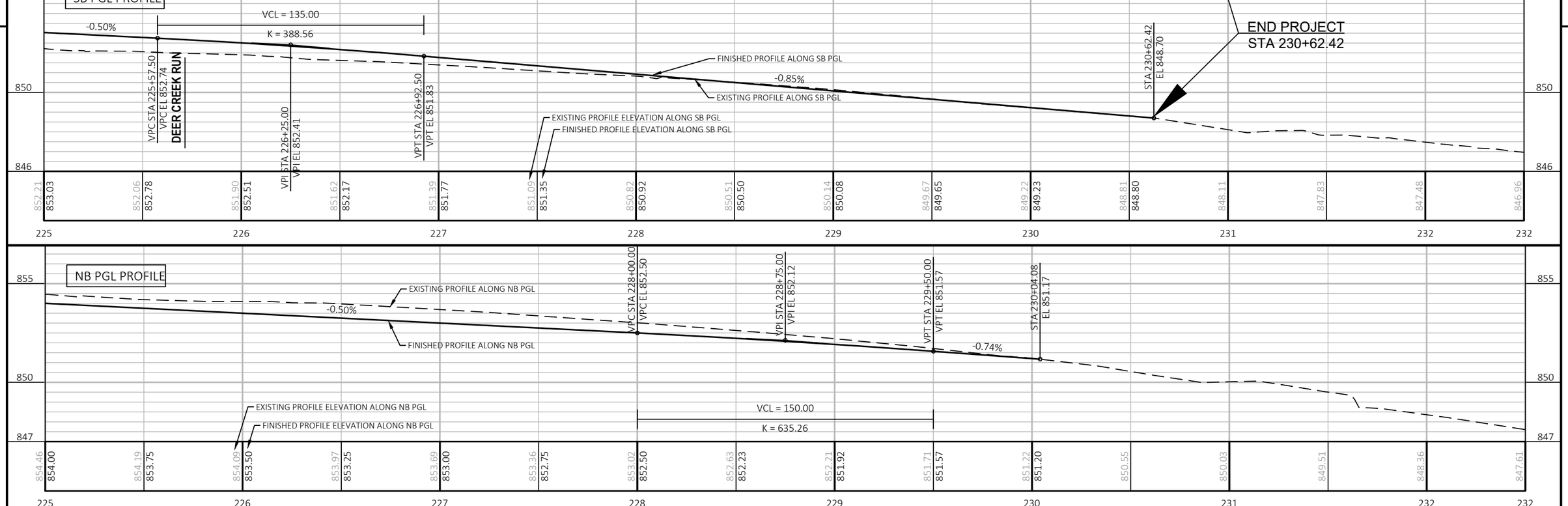
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 518	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 010

PLOT DATE : 4/28/2026 12:34 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



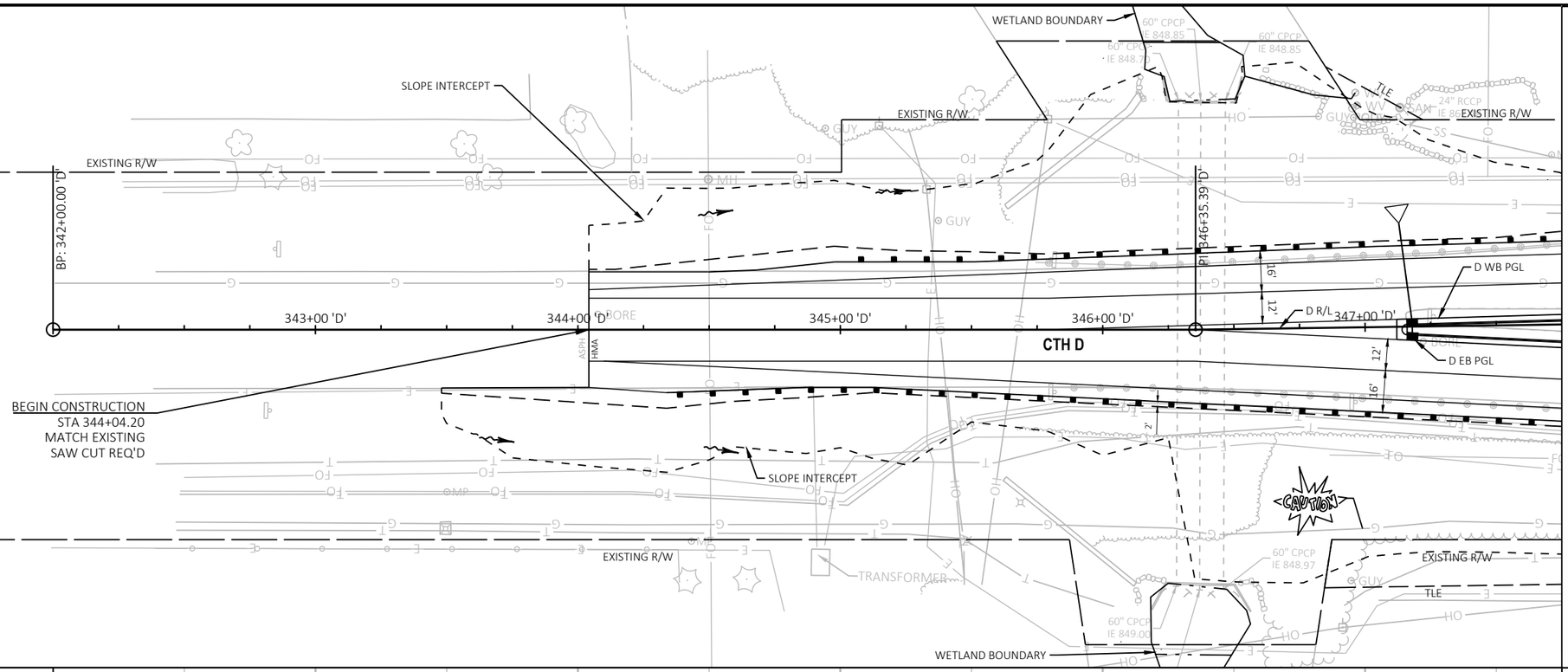


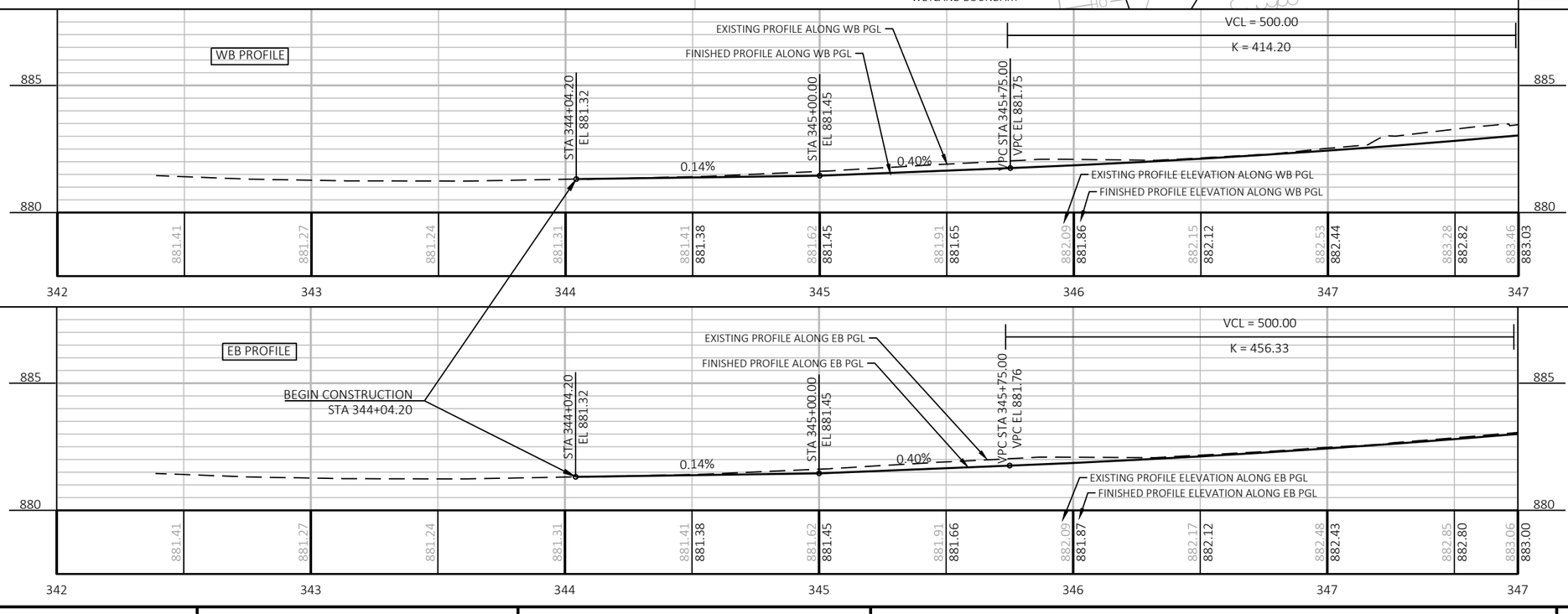
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE CTH O	SHEET 519	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050101-PP.DWG
LAYOUT NAME - 011

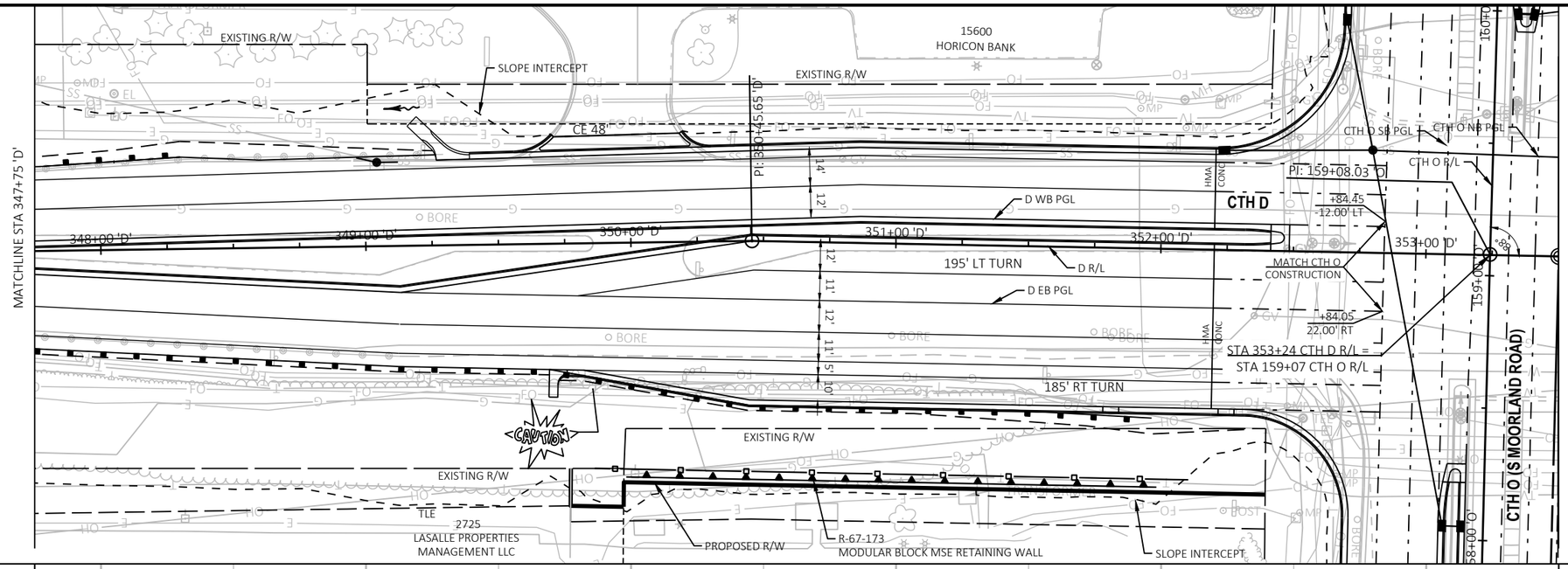
PLOT DATE : 4/28/2026 12:34 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

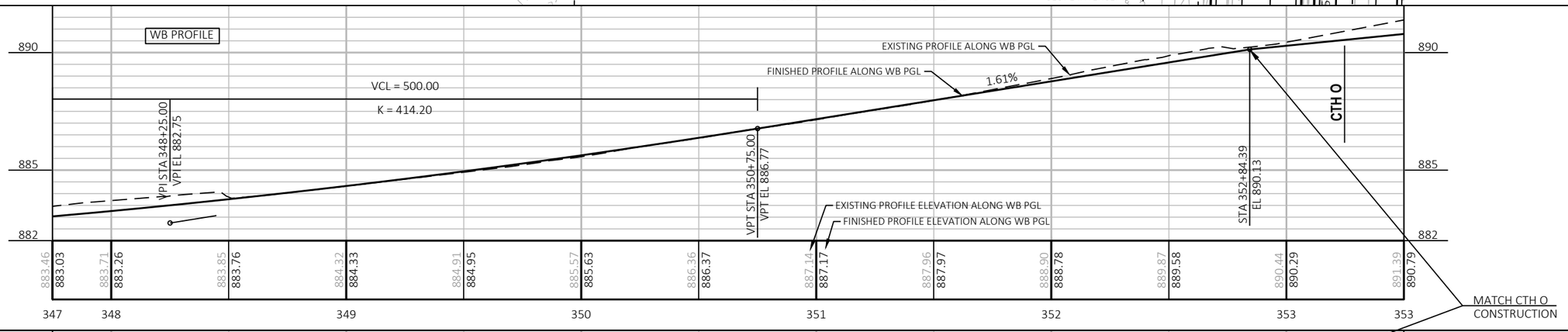
WISDOT/CADDS SHEET 44



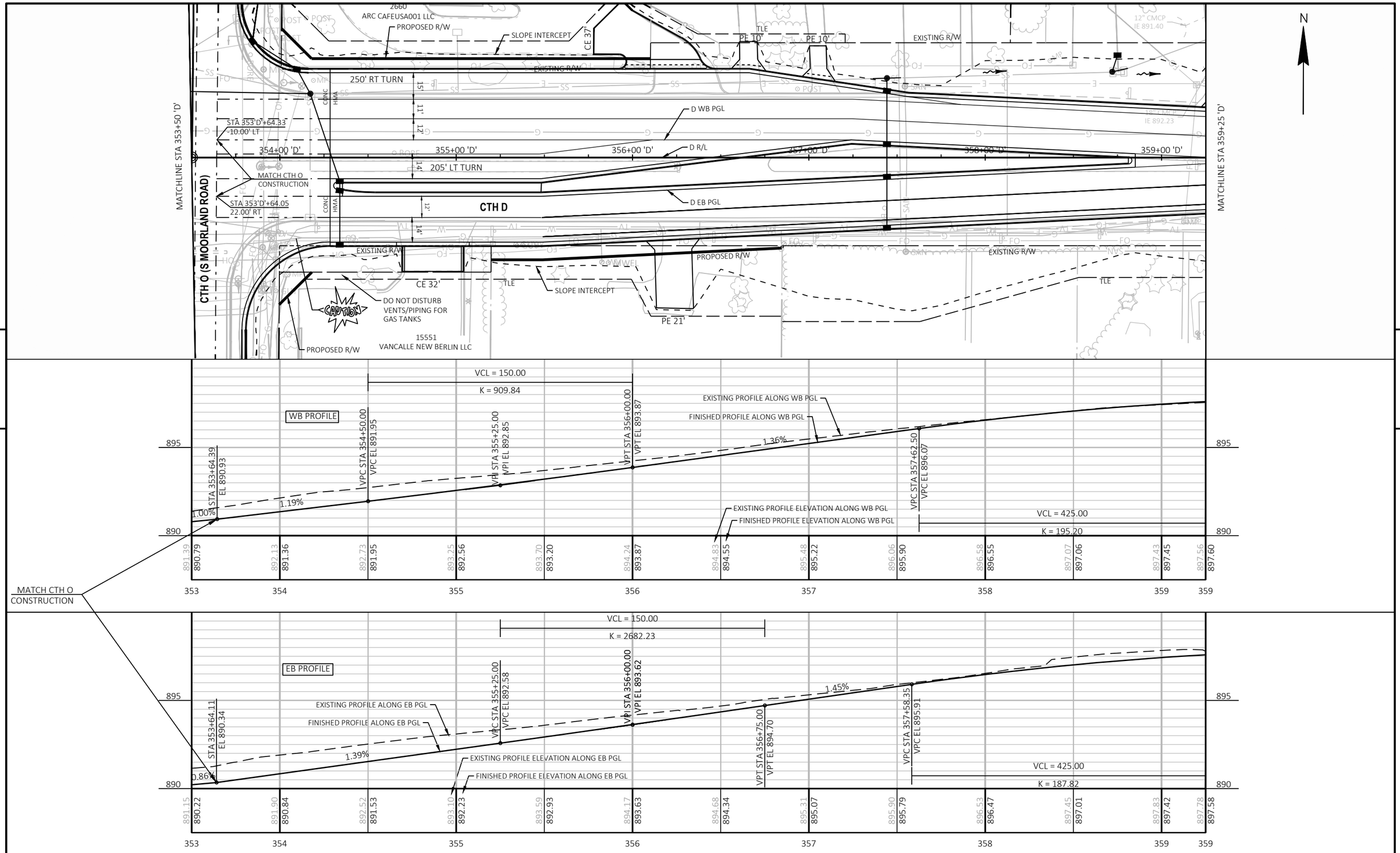


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE: CTH D	SHEET 520	E





PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE: CTH D	SHEET 521	E

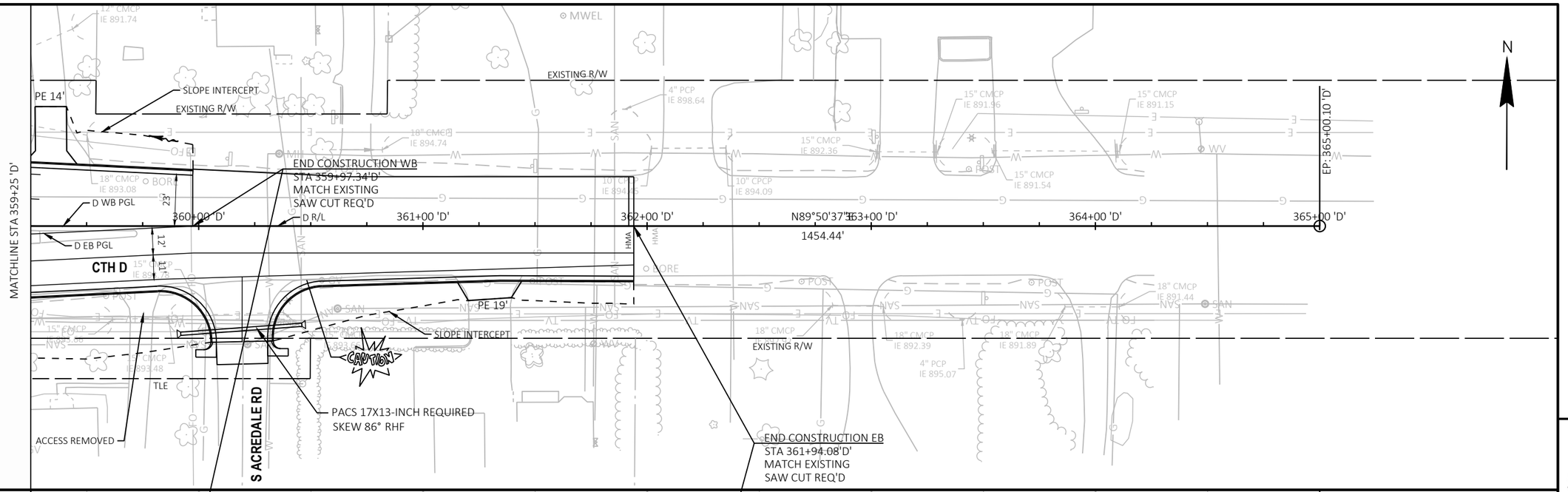


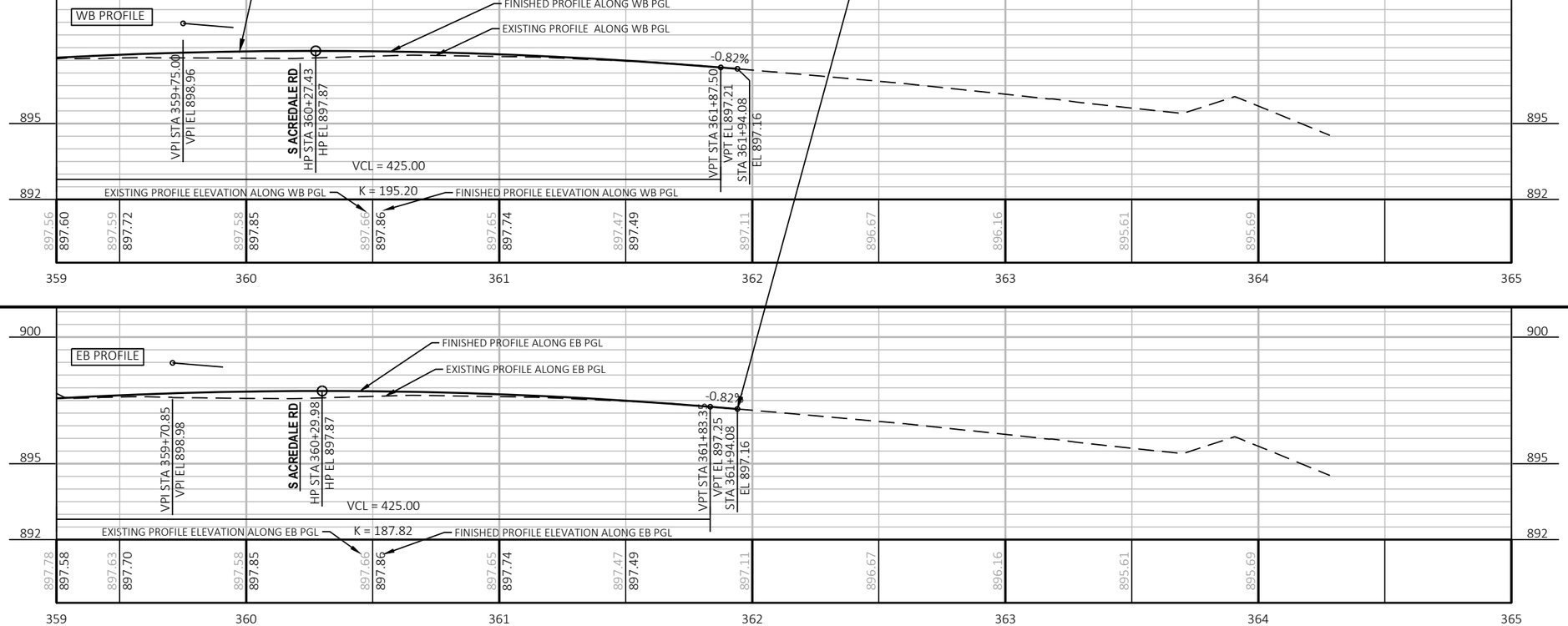
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE: CTH D	SHEET 522	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050102-PP.DWG
LAYOUT NAME - 015

PLOT DATE : 7/17/2026 1:41 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

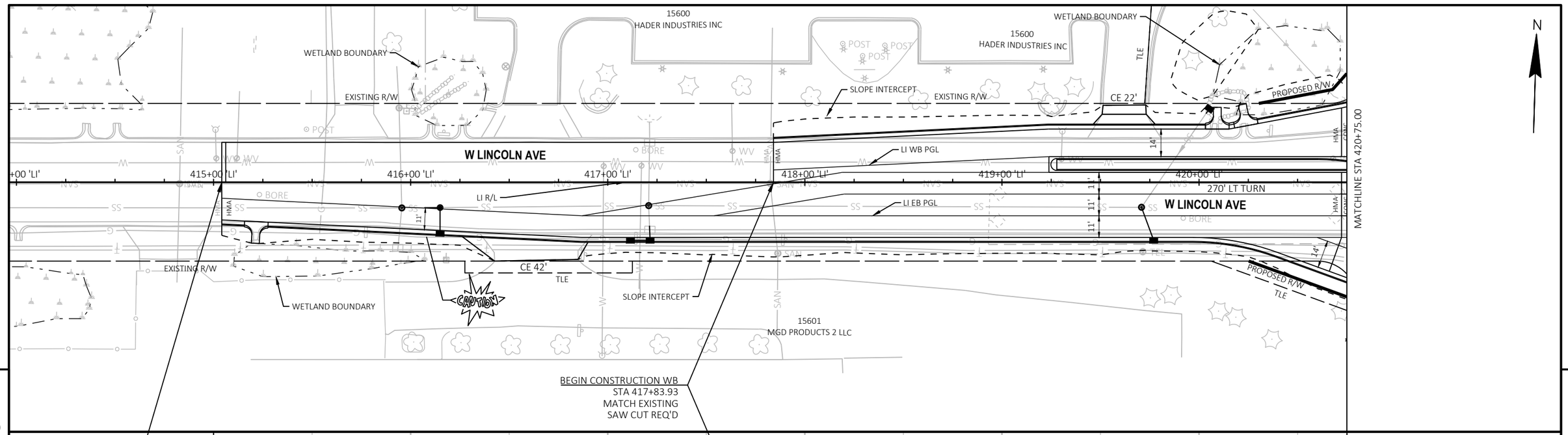
WISDOT/CADDS SHEET 44





PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE: CTH D	SHEET 523	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050102-PP.DWG
LAYOUT NAME - 016
PLOT DATE : 4/28/2026 12:40 PM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

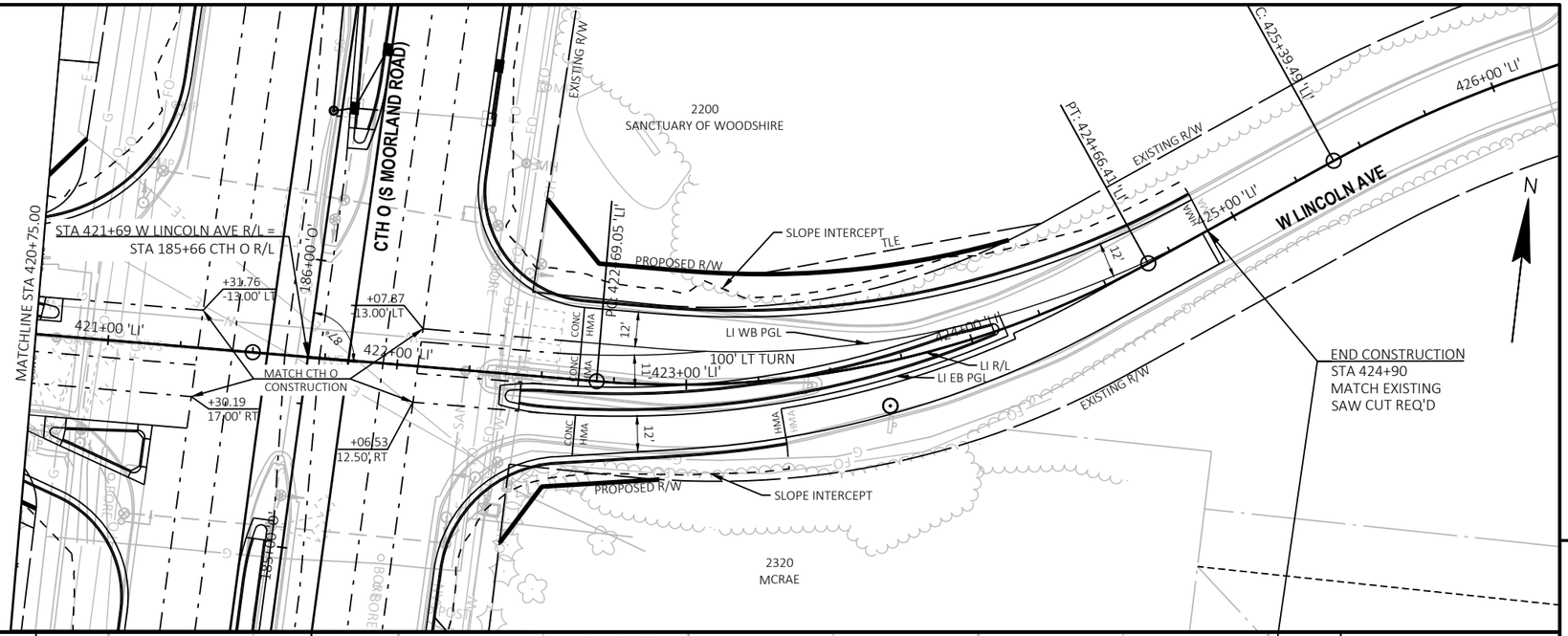


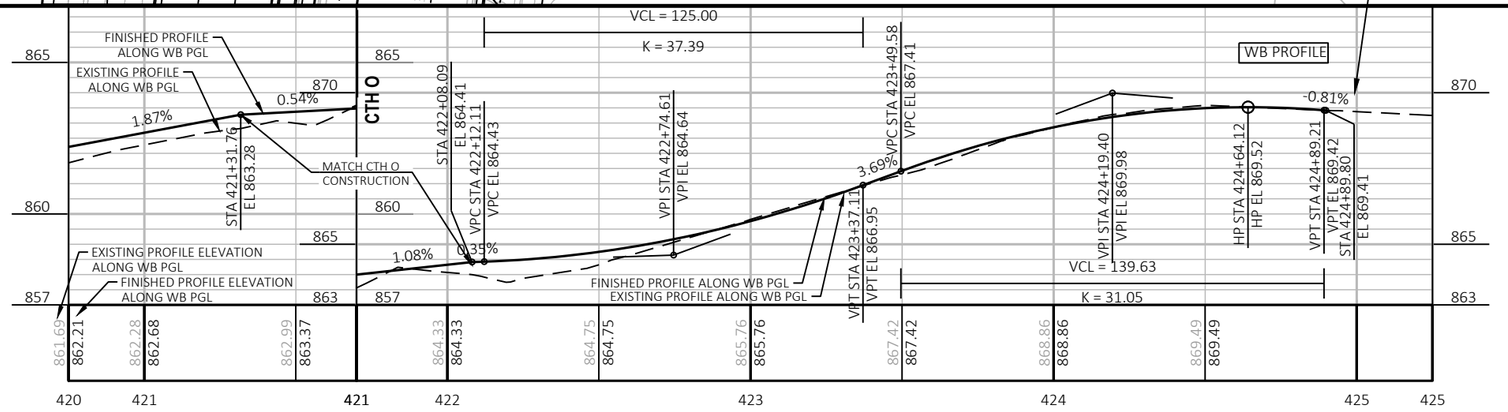
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE: LINCOLN AVE	SHEET 524	E

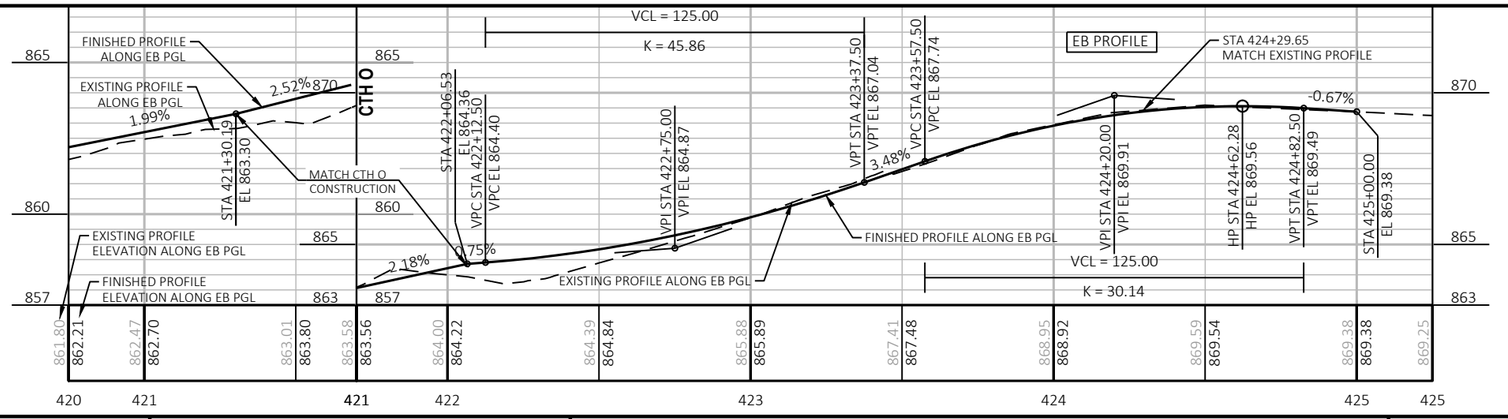
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050103-PP.DWG
LAYOUT NAME - 017

PLOT DATE : 4/28/2026 12:44 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44







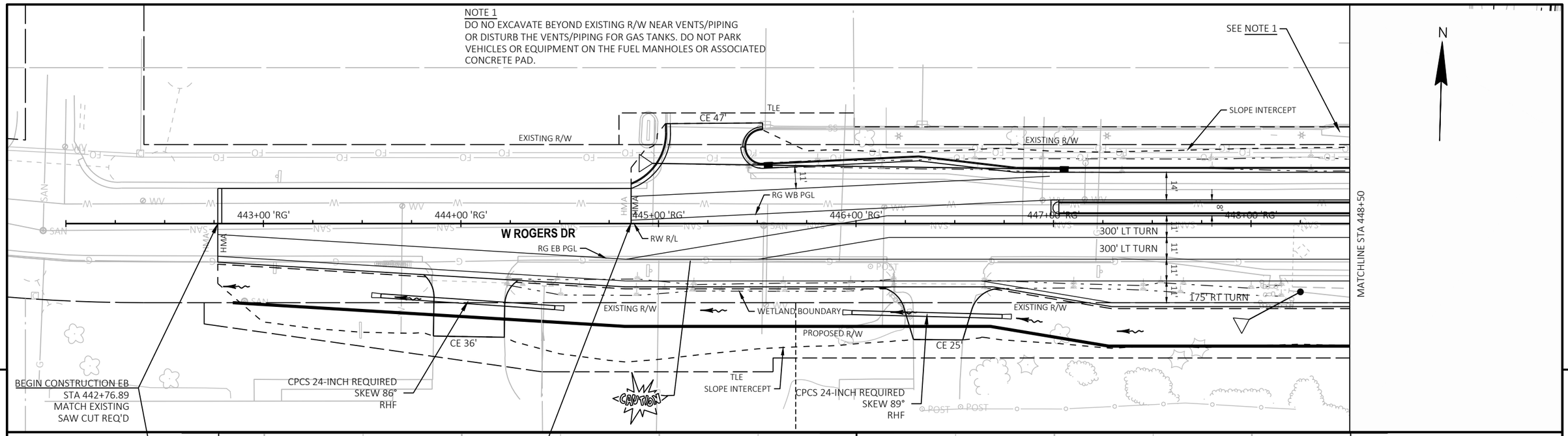
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE: LINCOLN AVE	SHEET 525	E

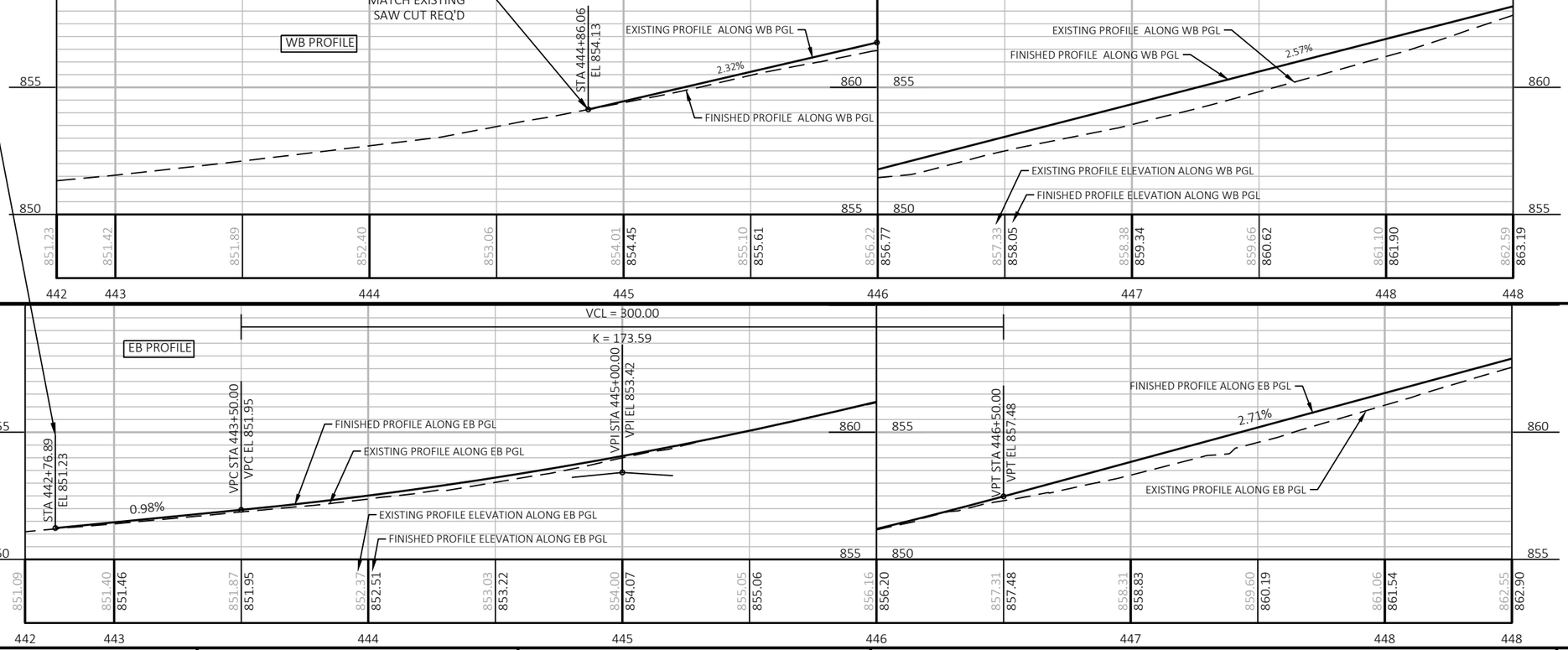
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050103-PP.DWG
LAYOUT NAME - 018

PLOT DATE : 4/28/2026 12:44 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

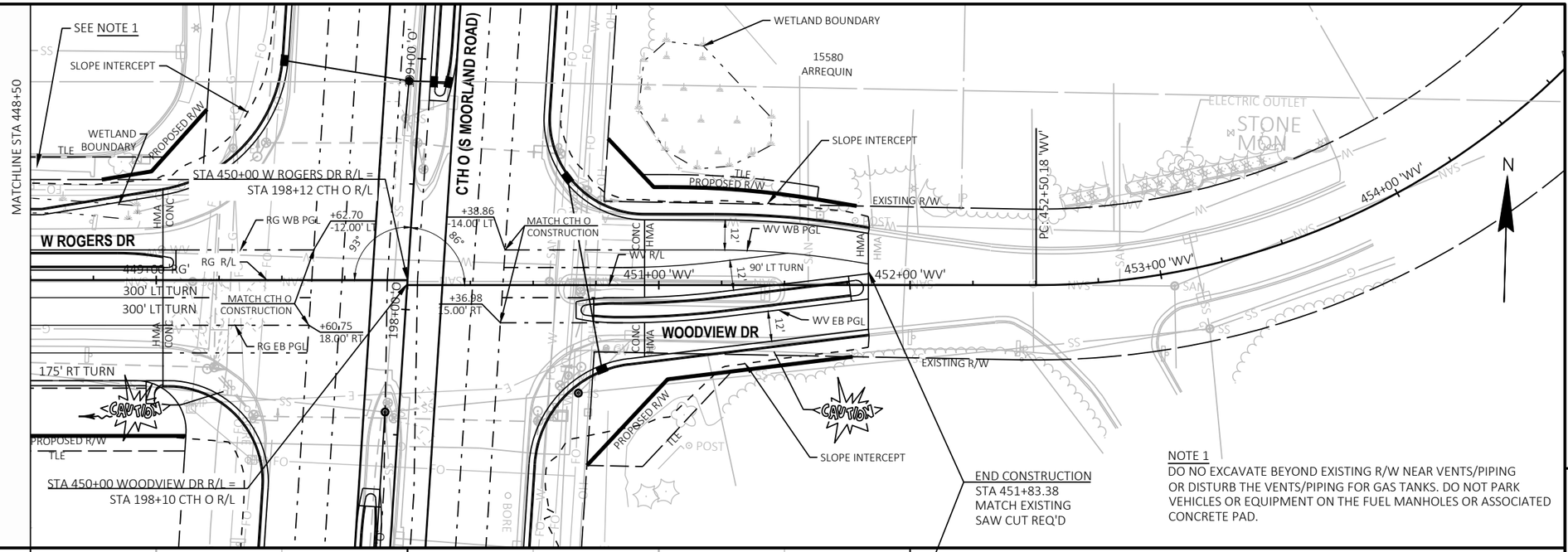
WISDOT/CADDS SHEET 44

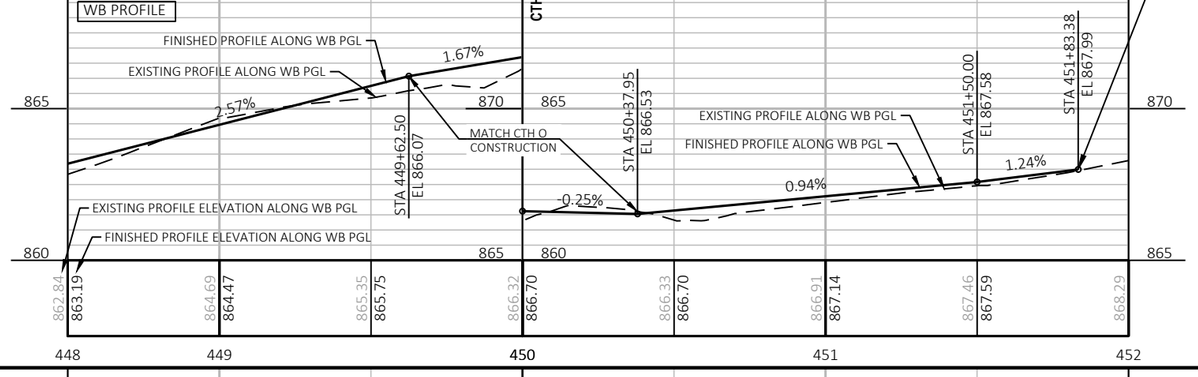
NOTE 1
DO NO EXCAVATE BEYOND EXISTING R/W NEAR VENTS/PIPING OR DISTURB THE VENTS/PIPING FOR GAS TANKS. DO NOT PARK VEHICLES OR EQUIPMENT ON THE FUEL MANHOLES OR ASSOCIATED CONCRETE PAD.

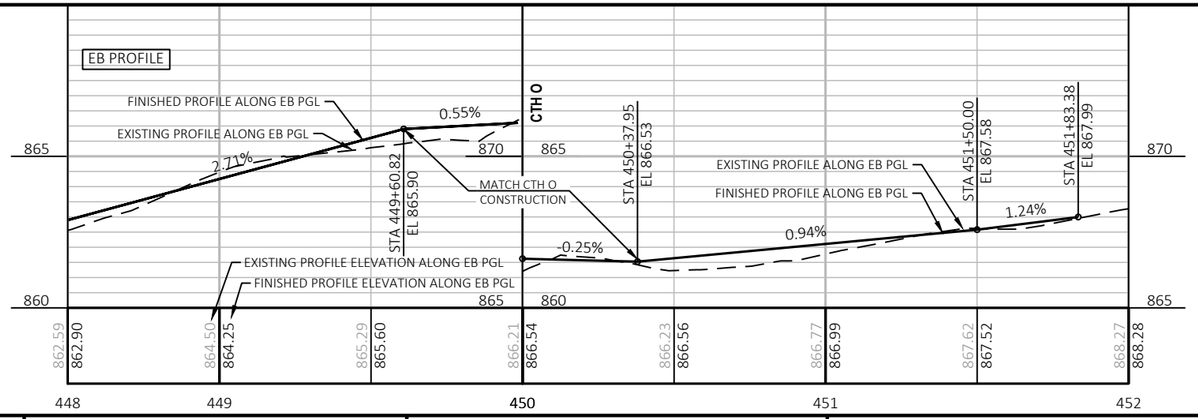




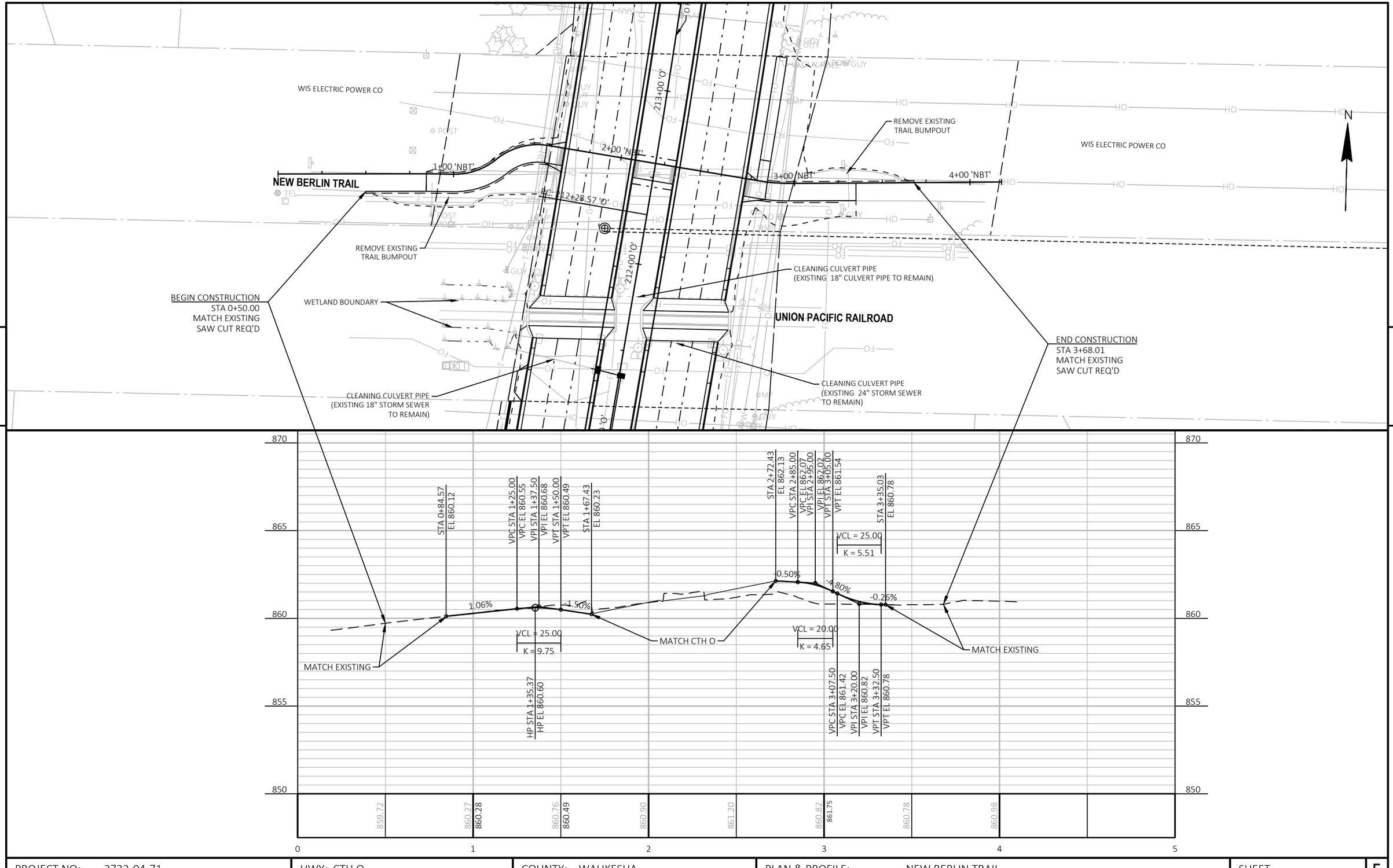
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE: W ROGERS DR & WOODVIEW DR	SHEET 526	E







PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE: W ROGERS DR & WOODVIEW DR	SHEET 527	E



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PLAN & PROFILE: NEW BERLIN TRAIL	SHEET 528	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\050105-PP.DWG
LAYOUT NAME - 050

PLOT DATE : 4/28/2026 12:46 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

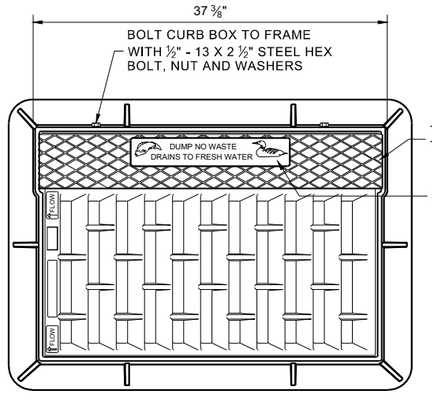
08A05-22A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-22B	INLET COVERS TYPE B, B-A, C, MS, MS-A, DW & WM
08A05-22C	INLET COVERS TYPE F, HM, HM-S, S, T, HM-GJ & HM-GJ-S
08A05-22E	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-03	INLETS 3-FT AND 4-FT DIAMETER
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08C08-03	INLETS MEDIAN 1 AND 2 GRATE
08D01-24A	CONCRETE CURB & GUTTER
08D01-24B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-22A	CURB RAMPS TYPES 1 AND 1-A
08D05-22B	CURB RAMPS TYPES 2 AND 3
08D05-22C	CURB RAMPS TYPES 4A AND 4A1
08D05-22D	CURB RAMPS TYPES 4B AND 4B1
08D05-22E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-22G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08D15-05B	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08D15-05C	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
09A11-01	DRIVEWAY AND SIDEWALK RAMPS TYPE X AND Y
09A12-01	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
09A13-01	DRIVEWAYS WITH CURB AND GUTTER RETURNS
09A14-01	DRIVEWAYS WITHOUT CURB AND GUTTER
09A15-01	DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL
09B02-10	CONDUIT
09B04-13	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-11	CONCRETE BASE TYPE 10
09C12-10A	CONCRETE BASE TYPE 13
09C12-10B	CONCRETE BASE TYPE 13
09C15-03	CONCRETE BASE TYPE 10 SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-17B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-17D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-06	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-10E	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-10F	TYPE 10 SPECIAL POLE 35' MONOTUBE ARM
09E08-10J	TYPE 13 POLE 35'-55' MONOTUBE ARM
09E08-10K	GENERAL NOTES, HARDWARE DETAILS FOR TYPE 9, 10, 9/10 SPECIAL,12 & 13 POLES W/ MONOTUBE ARMS
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09H09-02	COMMUNICATION VAULT TYPE 1
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13B01-11A	PAVEMENT DETAILS FOR RAILROAD APPROACH
13B01-11B	TYPICAL SECTIONS FOR RAILWAY APPROACH

6

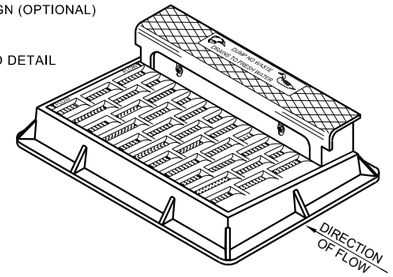
Standard Detail Drawing List

13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-11	URBAN DOWELED CONCRETE PAVEMENT
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C19-03	HMA LONGITUDINAL JOINTS
14B28-04A	GUARDRAIL MOW STRIP
14B28-04B	GUARDRAIL MOW STRIP
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-08A	FLEXIBLE DELINEATOR POST
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-10A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-10B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-10C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C07-16A	PAVEMENT MARKING SYMBOLS
15C07-16B	PAVEMENT MARKING WORDS
15C07-16C	PAVEMENT MARKING ARROWS
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-24B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-24C	PAVEMENT MARKING (TURN LANES)
15C08-24D	PAVEMENT MARKING (TURN LANES)
15C09-13A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-11A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-11B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-09A	MEDIAN ISLAND PAVEMENT MARKINGS
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-09C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C21-11	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C31-08D	PAVEMENT MARKING LANE DROP AND LANE REDUCTION
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D11-10	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-16A	TRAFFIC CONTROL, LANE CLOSURE
15D20-11A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D20-11B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-11C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-12A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-12L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
16A02-01	GEODETIC SURVEY MONUMENT

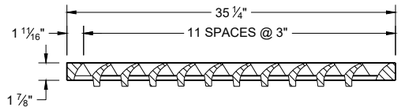
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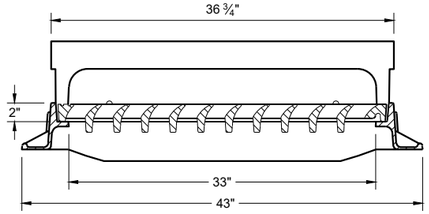


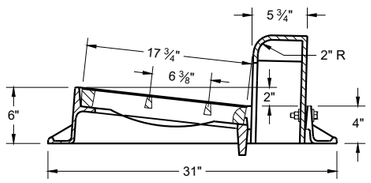
NOTE: EITHER CASTING IS ACCEPTABLE

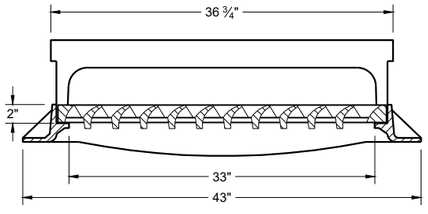


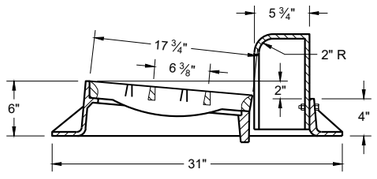
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"







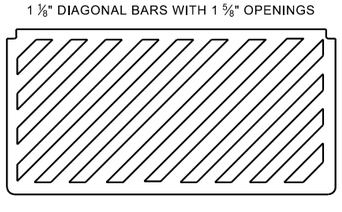




TYPE "H"

NOTE: EITHER CASTING IS ACCEPTABLE

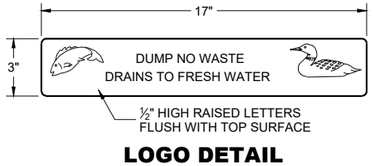
1 1/8" DIAGONAL BARS WITH 1 5/8" OPENINGS



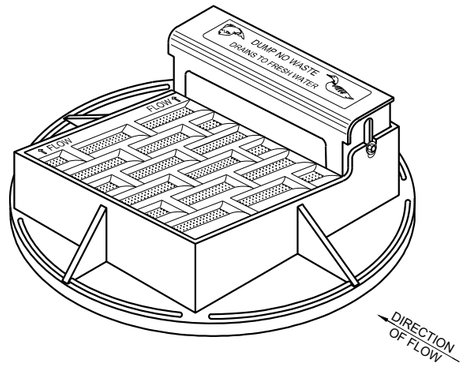
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

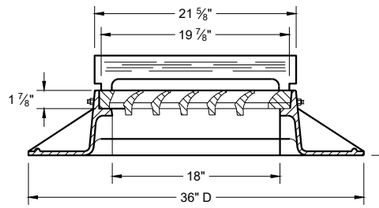


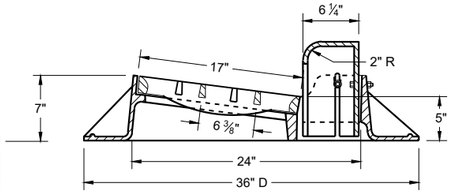
LOGO DETAIL



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

NOTE: EITHER CASTING IS ACCEPTABLE





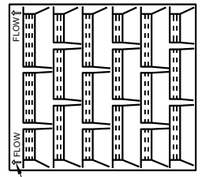
TYPE "A"

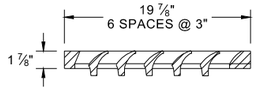
GENERAL NOTES

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

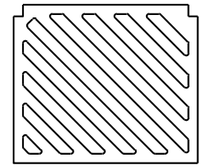
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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





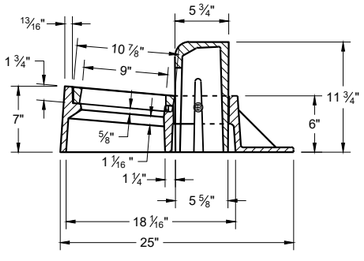
1" DIAGONAL BARS WITH 1 1/2" OPENINGS



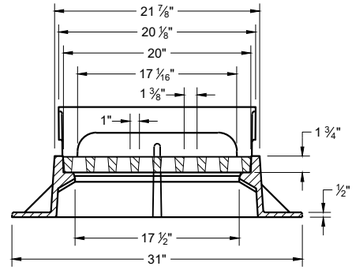
SPECIAL GRATE FOR TYPE "A" COVER

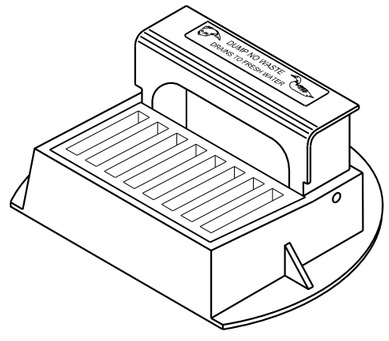
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "Z"





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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025
DATE

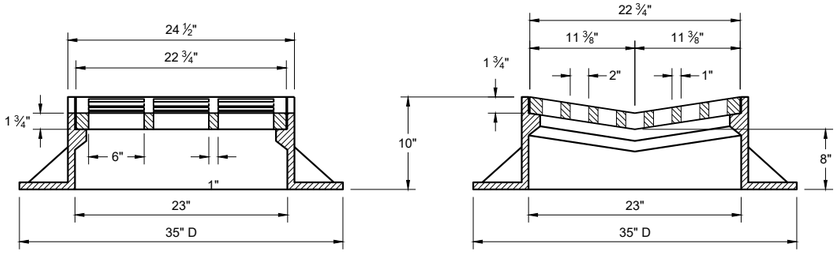
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

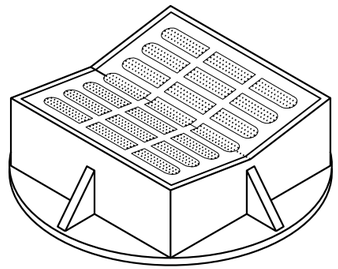
FHWA

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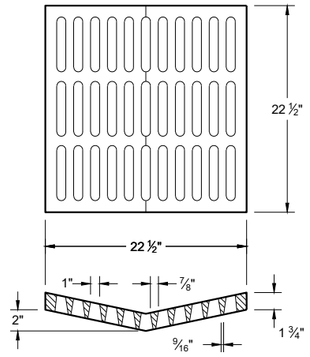
SDD 08A05-22a

SDD 08A05-22a





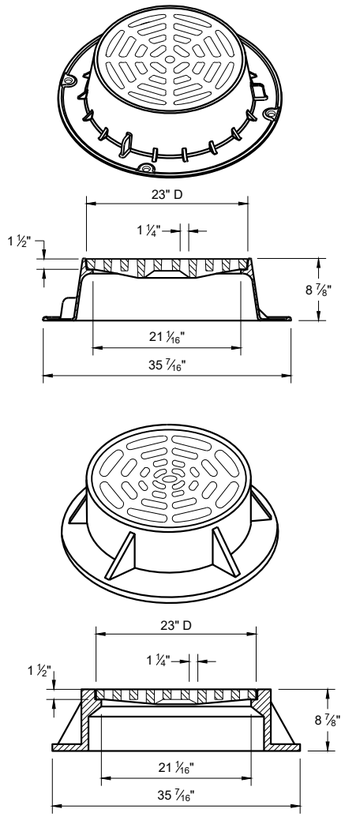
TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS POSSIBLE

NOTED AS TYPE B - A ON THE DRAINAGE TABLE



TYPE "C"

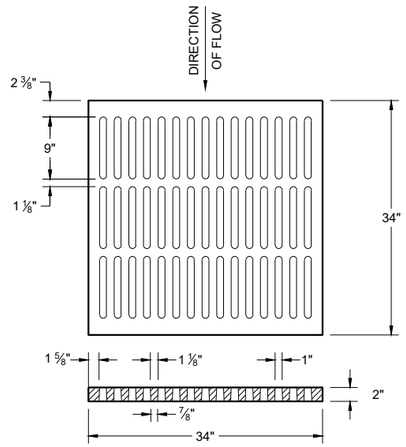
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

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

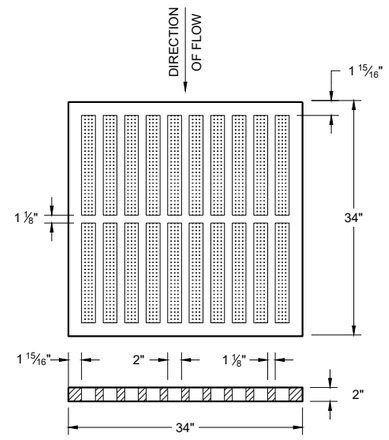
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

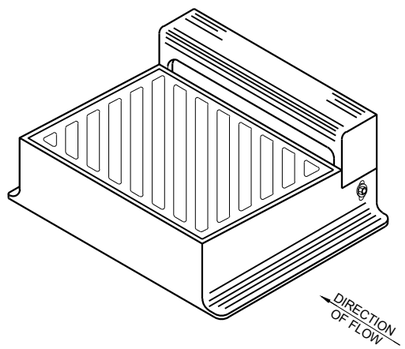
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



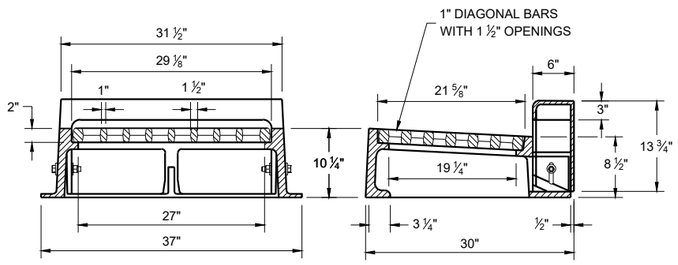
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON THE DRAINAGE TABLE

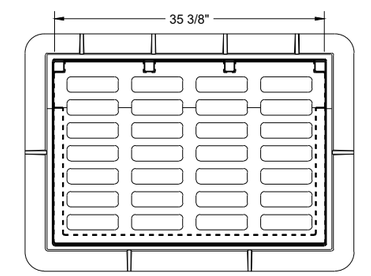


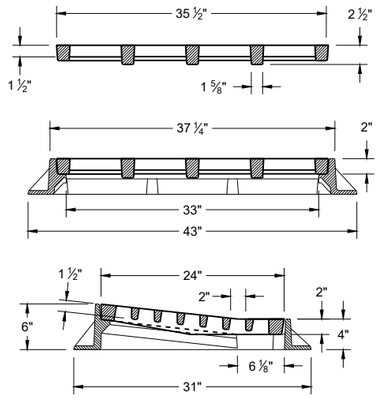
DIAGONAL SLOTS SHALL BE ORIENTEDTO THE DIRECTION OF FLOW AS ILLUSTRATED.
GRATES ARE MANUFACTURED TO BE REVERSIBLE.

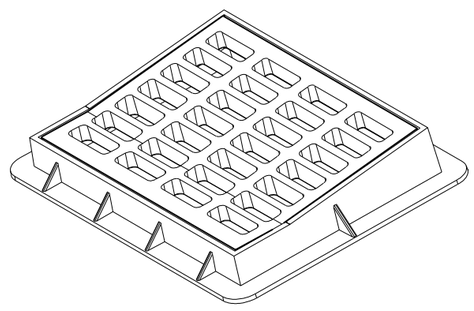


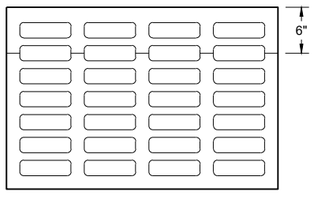
TYPE "WM"

NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"









TYPE "DW"

NOTES: FOR USE IN A SUMP CONDITION. THIS OPTION IS ONLY TO BE USED IF NO OTHER INLETS ARE APPLICABLE.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

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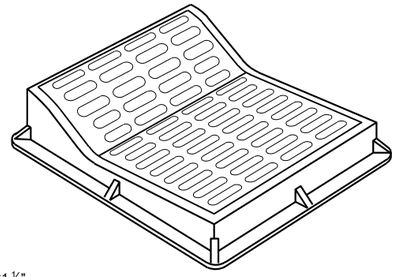
SDD 08A05-22b

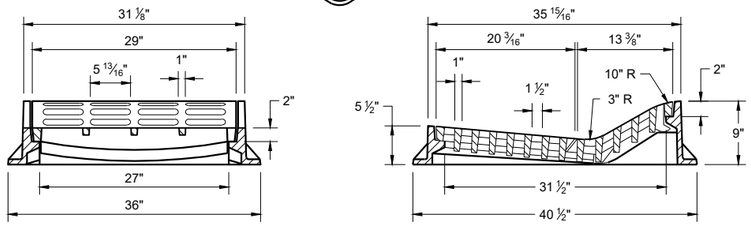
SDD 08A05-22b

GENERAL NOTES

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

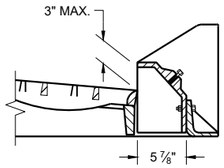
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





TYPE "F"

USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"

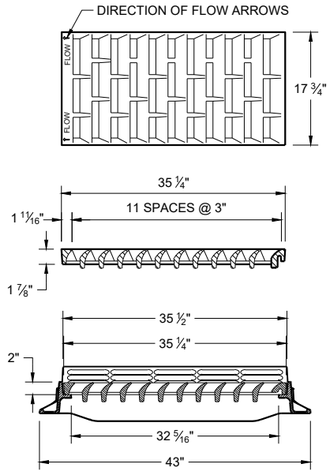


ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES "G" AND "J" CONCRETE CURB AND GUTTER, 30 INCH
NOTED AS TYP "HM-GJ" ON DRAINAGE TABLE

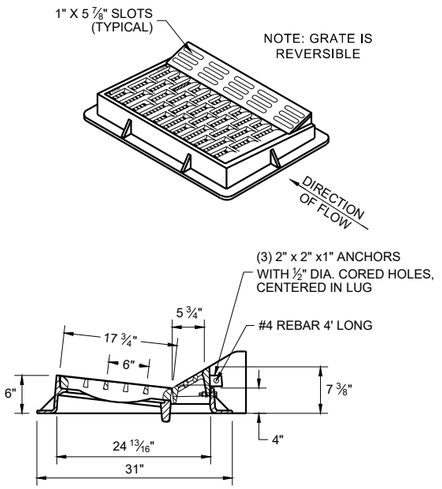
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.



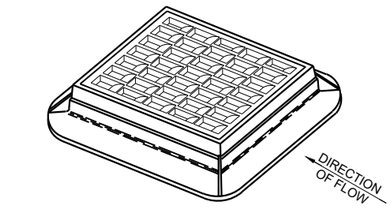
TYPE "HM"

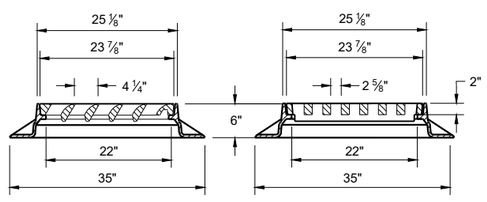
USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"



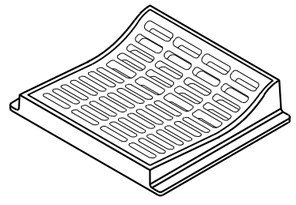
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

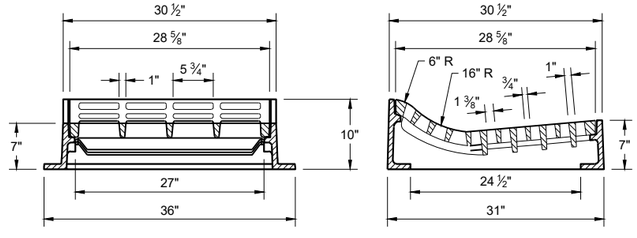
NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.





TYPE "S"





TYPE "T"

USE WITH TYPES "R" AND "T" CONCRETE CURB AND GUTTER, 36"

INLET COVERS
TYPES F, HM, HM-S, S, T, HM-GJ AND HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
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/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

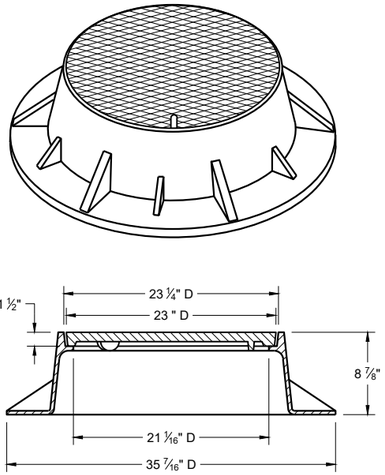
6
SDD 08A05-22c

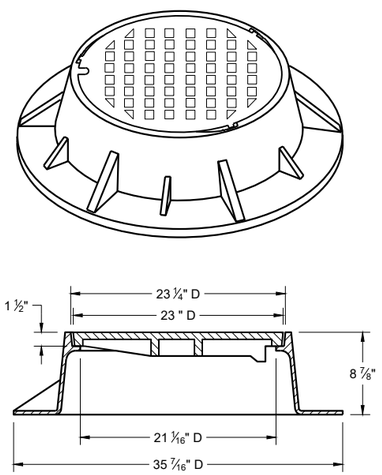
GENERAL NOTES

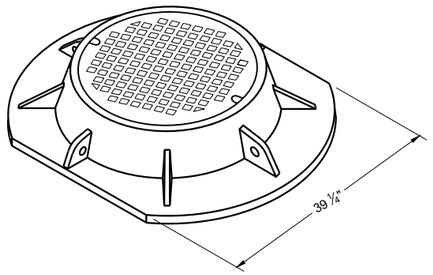
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

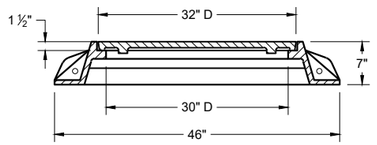
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

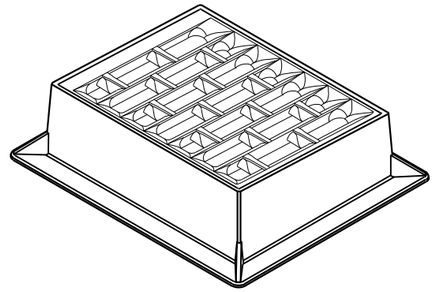


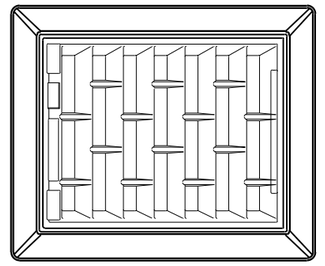


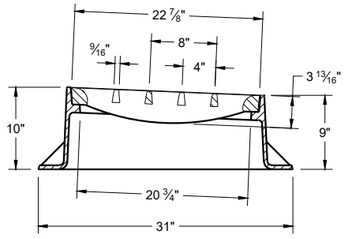


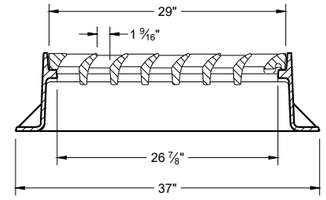


TYPE "K"

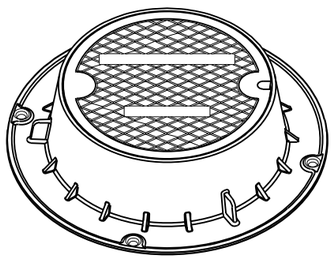


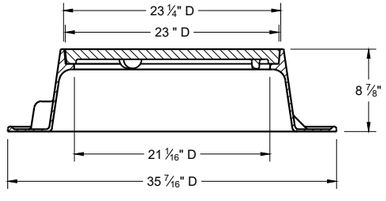






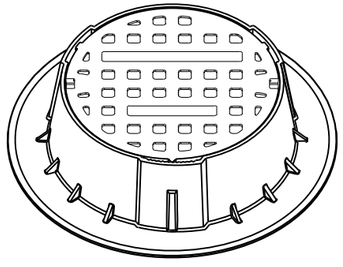
INLET COVER TYPE "BW"

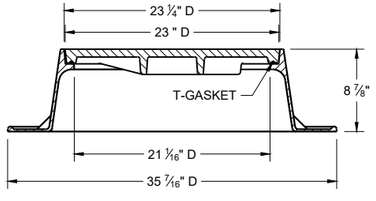




TYPE "J"

NOTE: EITHER CASTING IS ACCEPTABLE

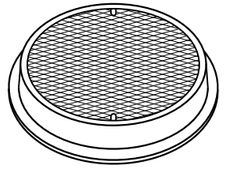


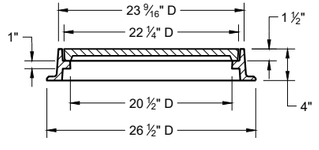


TYPE "J" SPECIAL

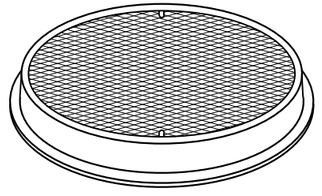
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

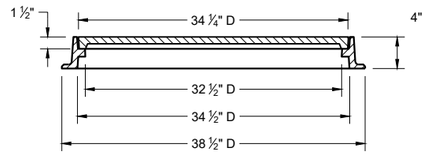
NOTE: EITHER CASTING IS ACCEPTABLE





TYPE "L"





TYPE "M"

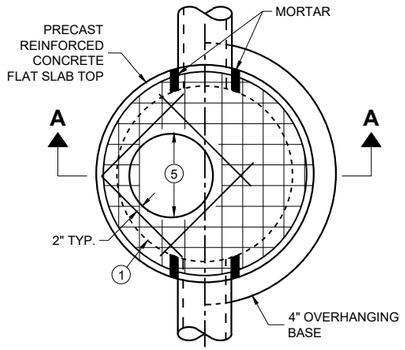
INLET COVERS TYPES BW
MANHOLE COVERS TYPES K, J, J-S, L, AND M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
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/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

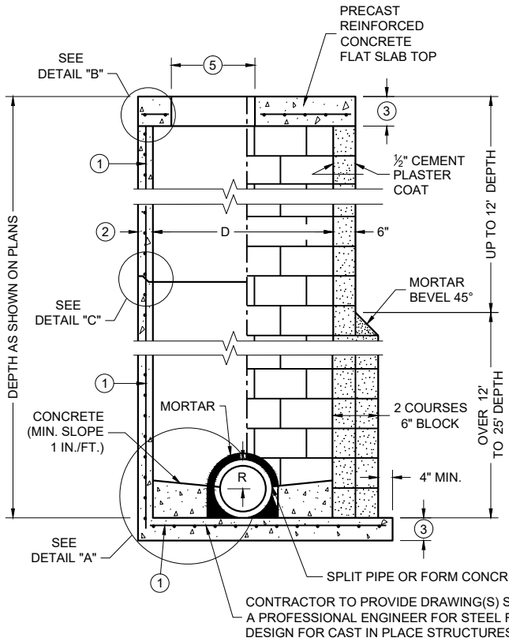
FHWA

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SDD 08A05-22e



PLAN VIEW

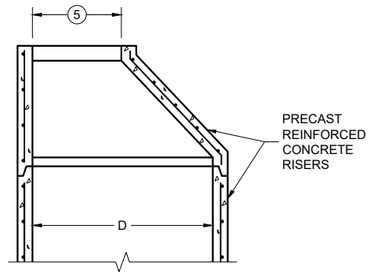
CIRCULAR OPENING



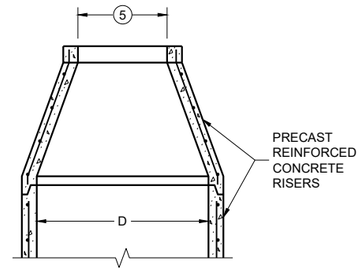
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

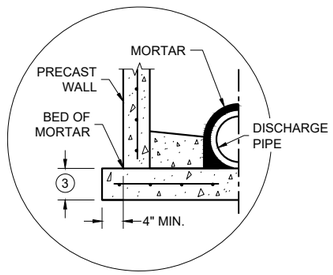
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



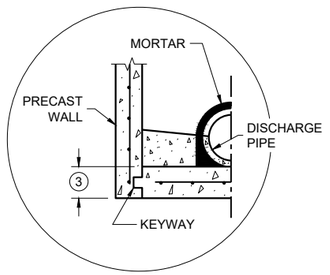
OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

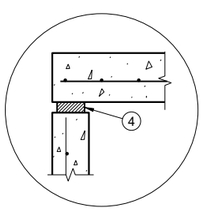


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

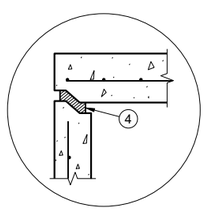


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

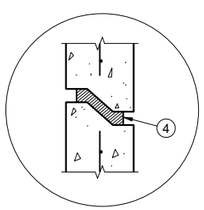
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

DETAIL "C"

MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) (5) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

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

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

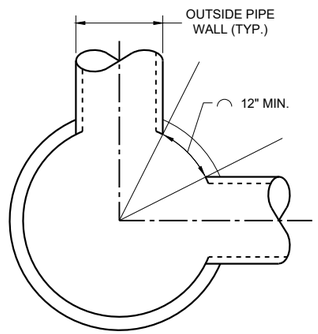
(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

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

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

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

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

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

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/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

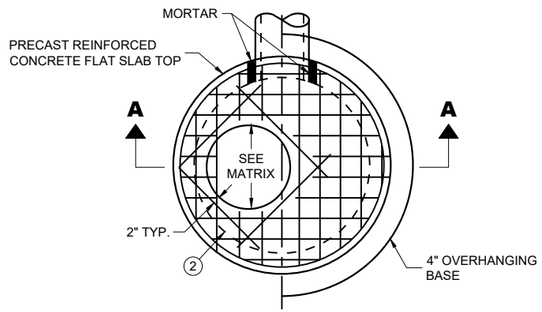
FHWA

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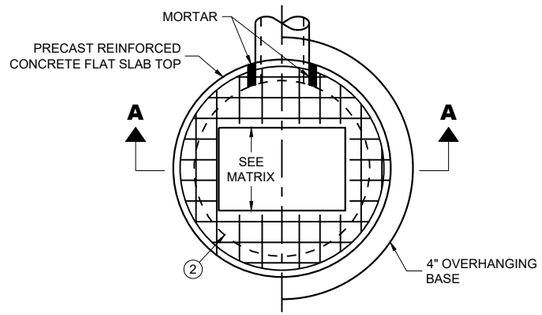
SDD 08B09-04

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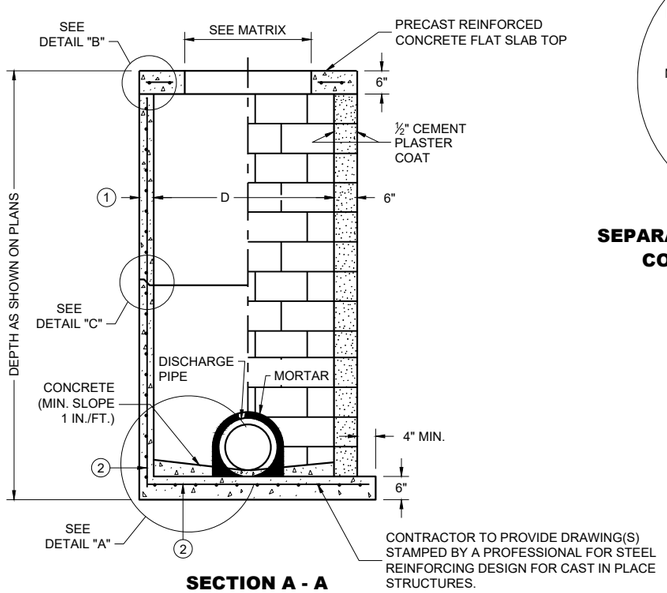
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PLAN VIEW CIRCULAR OPENING



PLAN VIEW RECTANGULAR OPENING



SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (2)

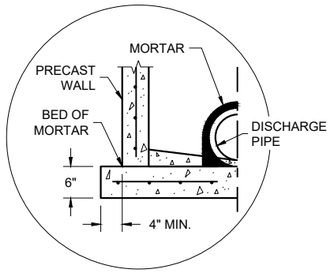
CIRCULAR INLETS WITH FLAT TOP

CATCH BASIN COVER OPENING MATRIX

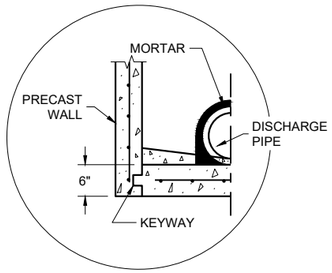
INLET SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V V-B	WM	Z
	OPENING SIZE (FT.)											
3-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
4-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
	2 X 2.5			X				X	X	X	X	
	2 X 3						X					
	2.5 X 3					X						

PIPE MATRIX

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

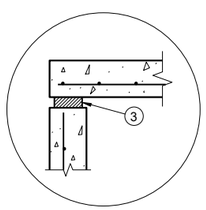


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

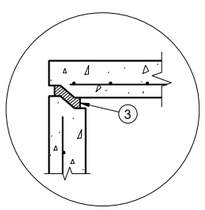


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

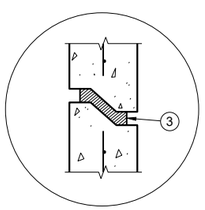
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" **DETAIL "C"**

INLETS 3-FT AND 4-FT DIAMETER

GENERAL NOTES

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.

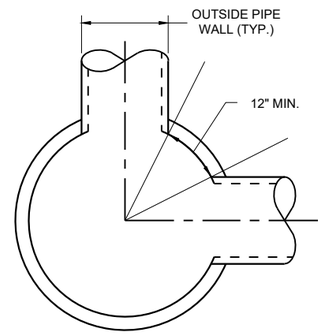
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

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 "D".

(1) MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT DIAMETER AND 5 INCHES FOR 4-FT DIAMTER PRECAST INLETS.

(2) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(3) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

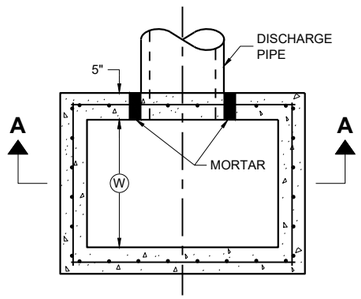
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

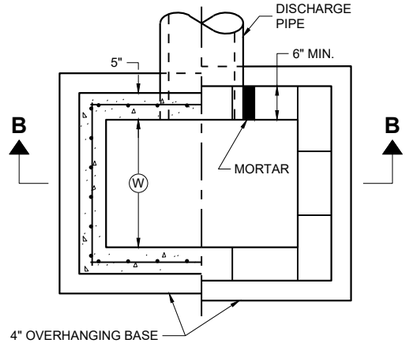
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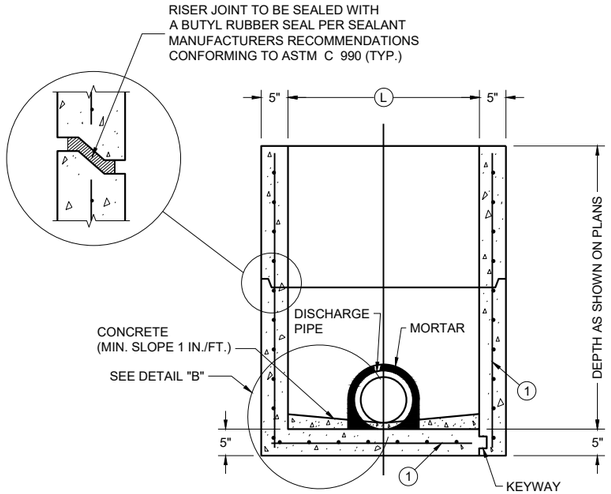
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PLAN VIEW



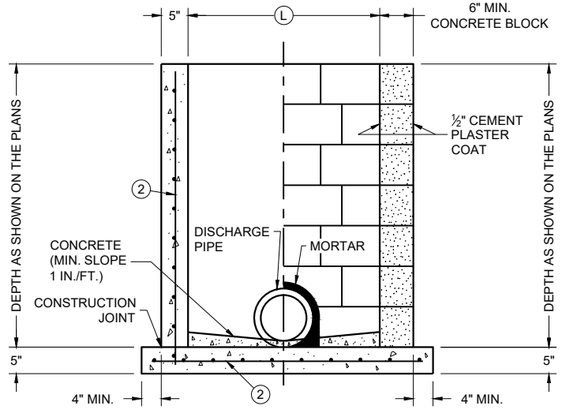
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

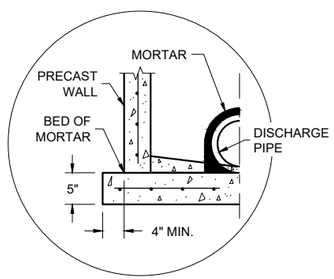
SECTION A - A



CAST IN PLACE REINFORCED CONCRETE

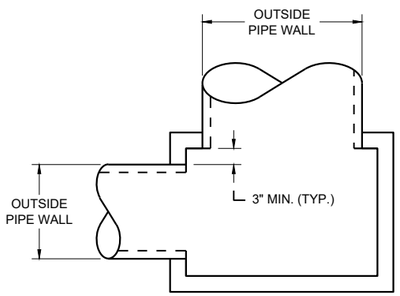
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

SECTION B - B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR 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" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913
(2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

CATCH BASIN COVER MATRIX

INLET SIZE	WIDTH (W) (FT.)	LENGTH (L) (FT.)	INLET COVER TYPE									
			ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM	V V-B
2 X 2-FT	2	2	X	X				X				
2 X 2.5-FT	2	2.5			X			X	X	X	X	
2 X 3-FT	2	3					X					
2.5 X 3-FT	2.5	3				X						
2 X 3.5-FT	2	3.5										X

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2 X 2-FT	12	12
2 X 2.5-FT	12	18
2 X 3-FT	12	24
2.5 X 3-FT	18	24
2 X 3.5-FT	12	30

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2 X 3.5-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

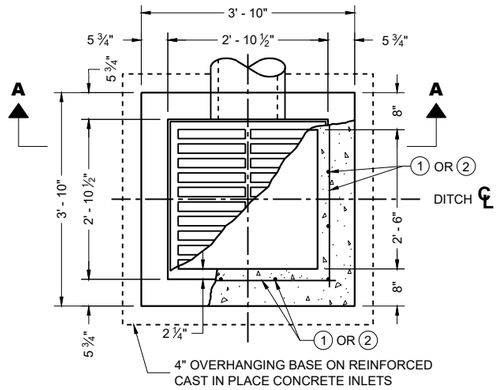
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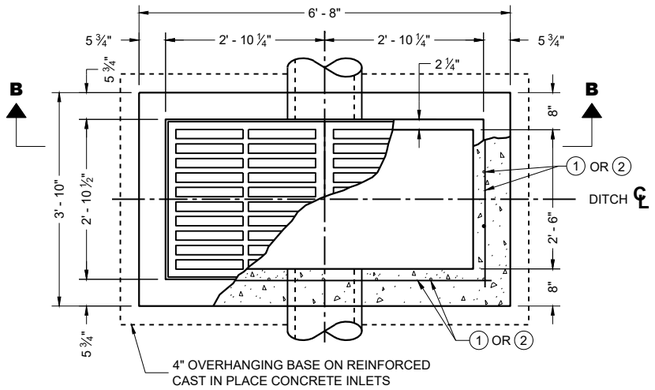
SDD 08C07-03

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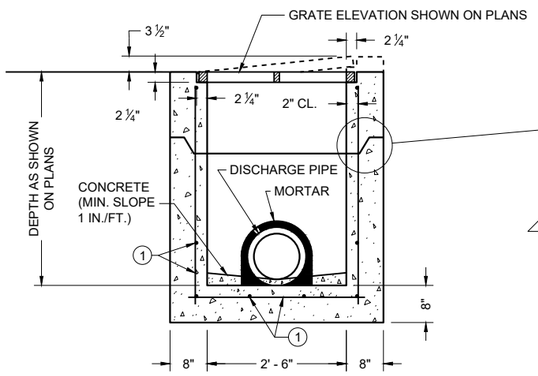
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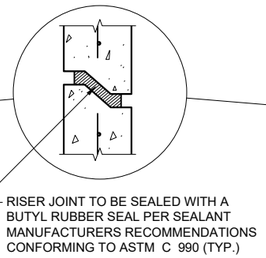
PLAN VIEW

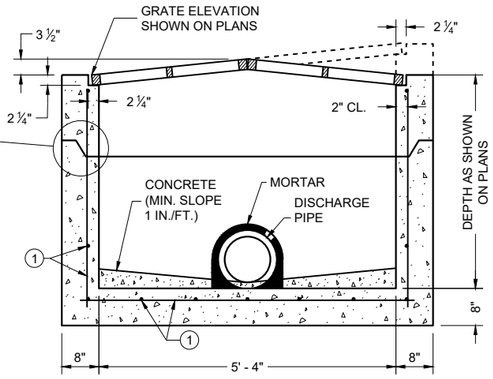


PLAN VIEW

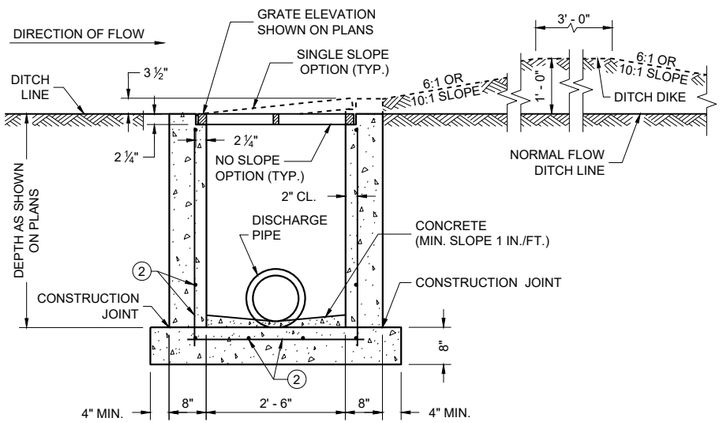


PRECAST REINFORCED CONCRETE SECTION A - A



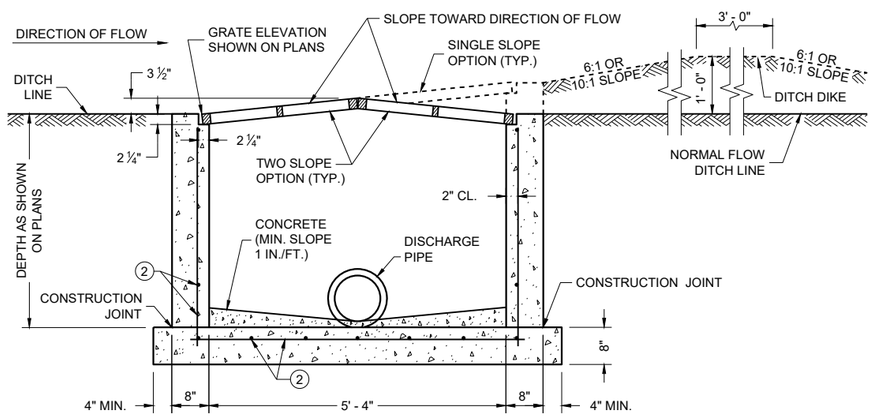


PRECAST REINFORCED CONCRETE SECTION B - B



REINFORCED CAST IN PLACE CONCRETE SECTION A - A

INLETS MEDIAN 1 GRATE



REINFORCED CAST IN PLACE CONCRETE SECTION B - B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

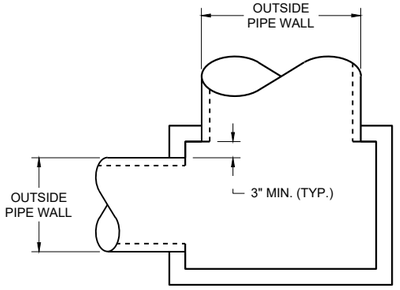
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

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

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

(1) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

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



DETAIL "A"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42

INLETS
MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

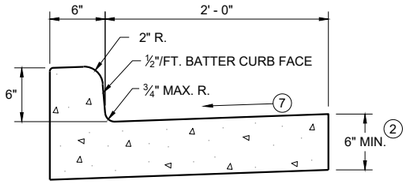
FHWA

6

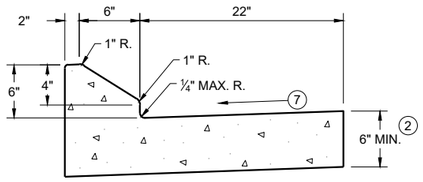
SDD 08C08-03

6

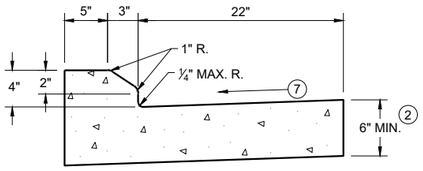
SDD 08C08-03



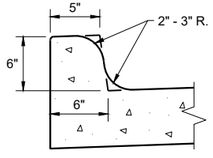
TYPES A (1) & D



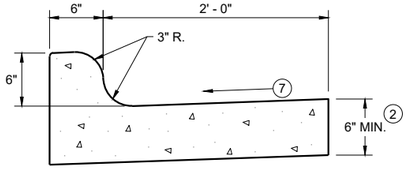
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

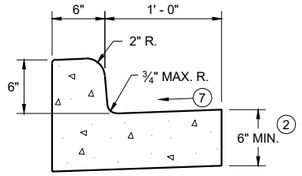


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



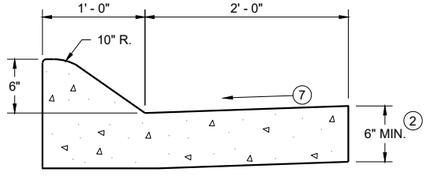
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

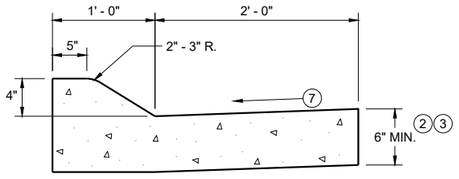


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

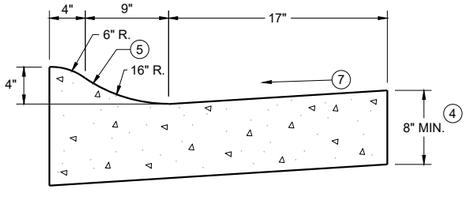


6" SLOPED CURB TYPES A (1) & D



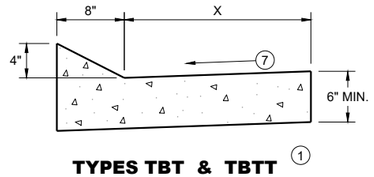
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T
CONCRETE CURB AND GUTTER 30"

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

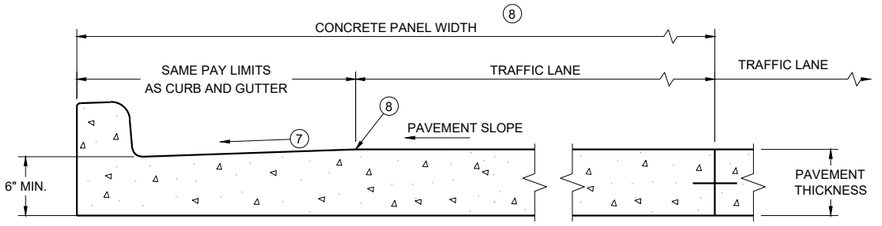


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

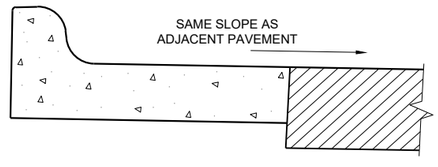
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



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

GENERAL NOTES

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

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

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

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

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

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

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

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

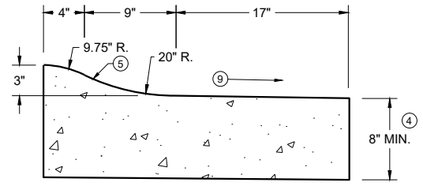
(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

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

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

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

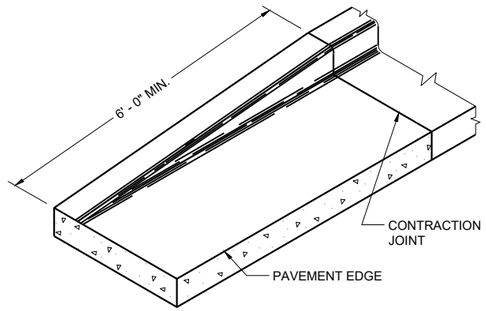
(9) SLOPE TO BE REVERSE SLOPE MATCHING THE SLOPE OF THE PAVEMENT AND THE CIRCULATORY ROADWAY



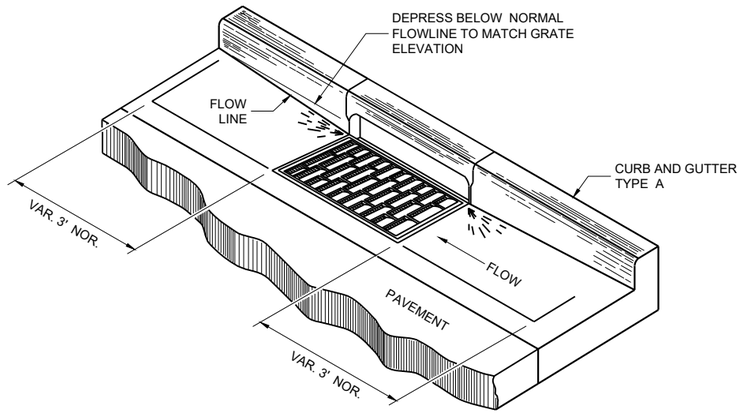
3" SLOPED CURB TYPES R (1) & T

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

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

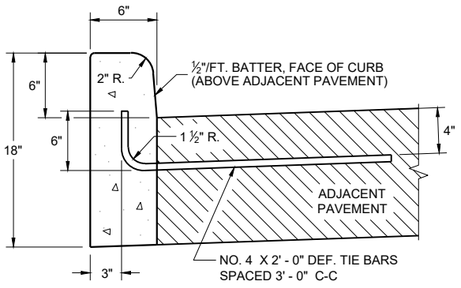
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

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

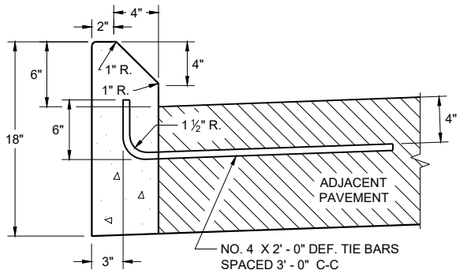
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

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

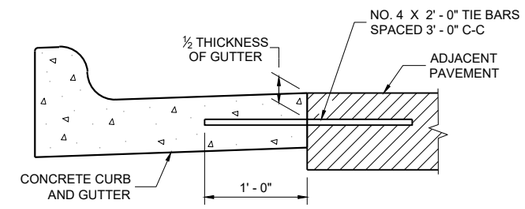


TYPES A (1) & D

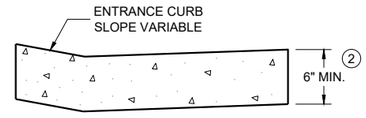


TYPES G (1) & J

CONCRETE CURB

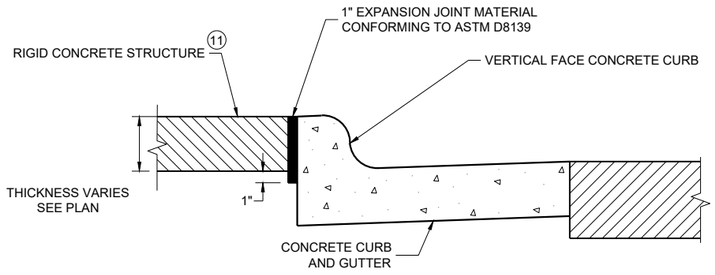


TYPICAL TIE BAR LOCATION (1)

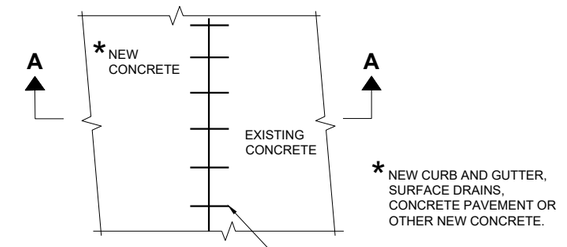


DRIVEWAY ENTRANCE CURB (10)

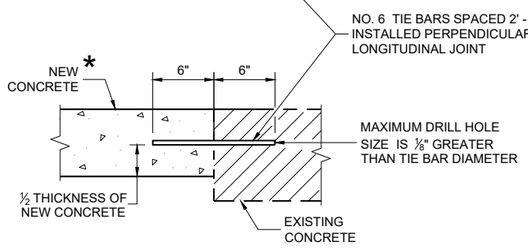
(WHEN DIRECTED BY THE ENGINEER)



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



PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

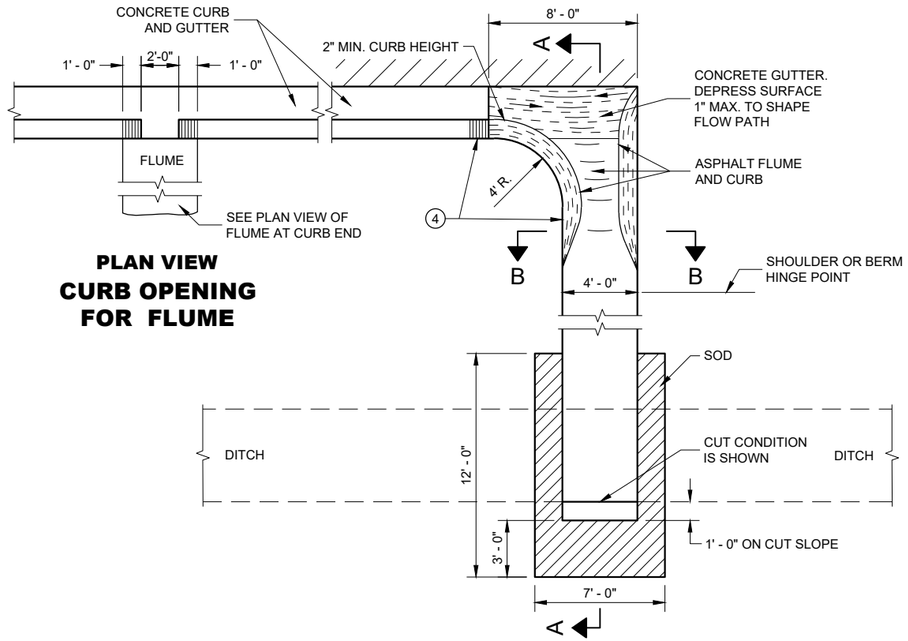
APPROVED
February 2025 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6
SDD 08D01-24b

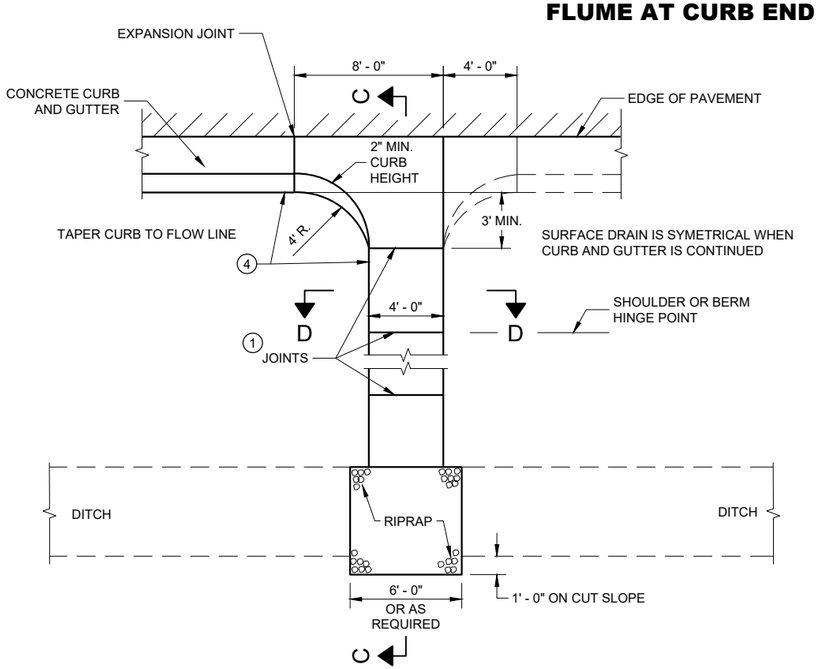
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



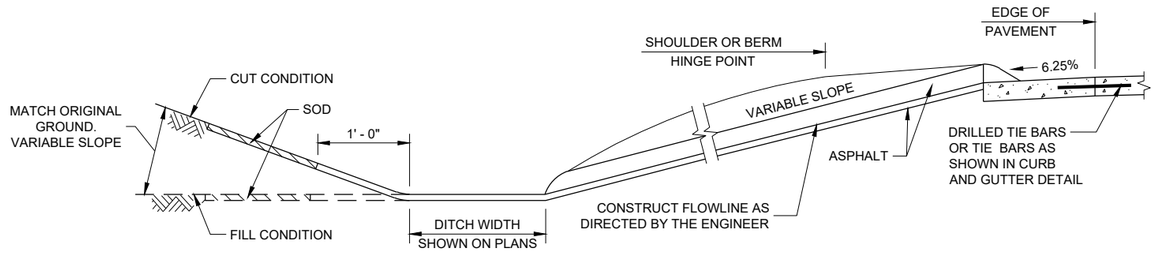
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

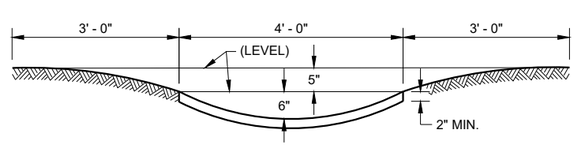
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

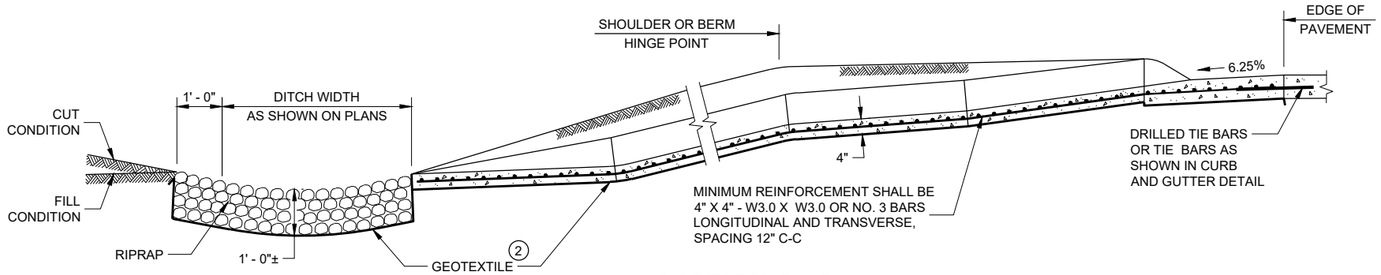
1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4.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



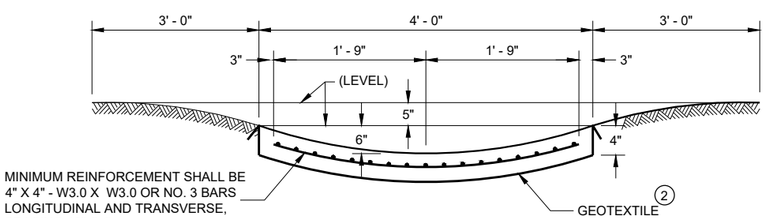
SECTION A - A



SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

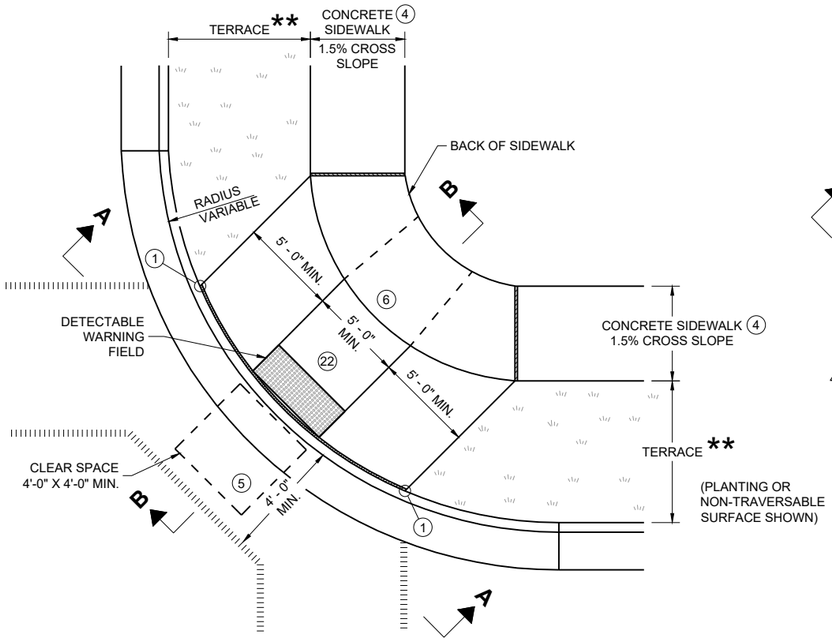
FHWA

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SDD 08D04 - 07

6

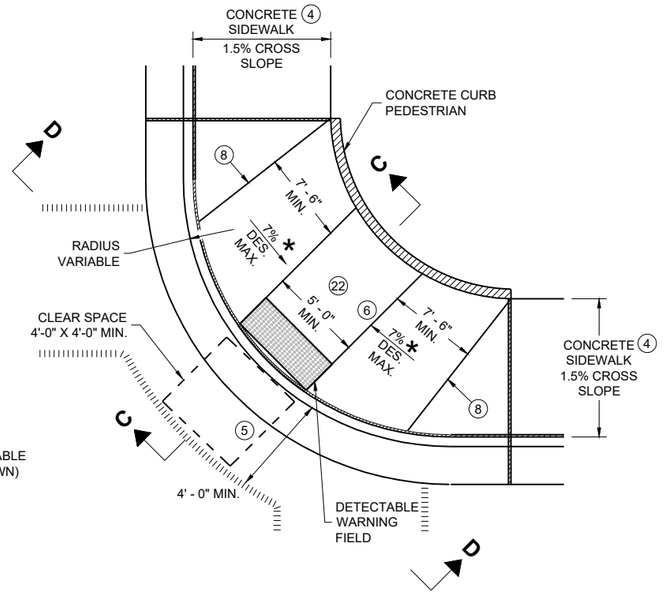
SDD 08D04 - 07



PLAN VIEW

CURB RAMP TYPE 1

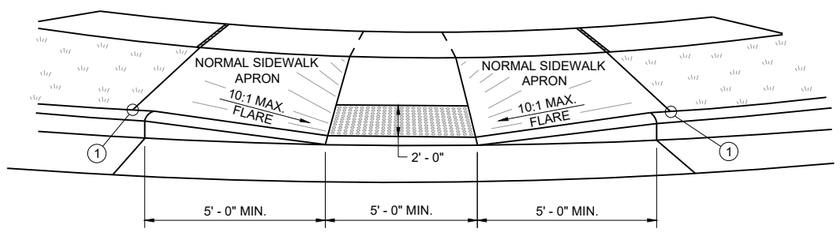
(CENTER OF CORNER RADIUS)



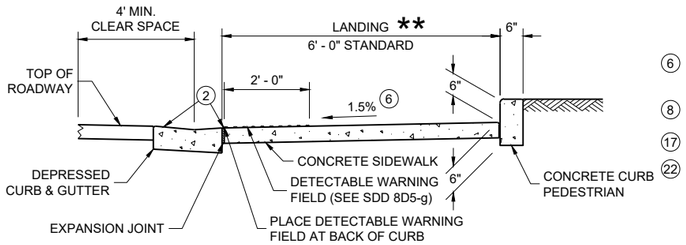
PLAN VIEW

CURB RAMP TYPE 1 - A

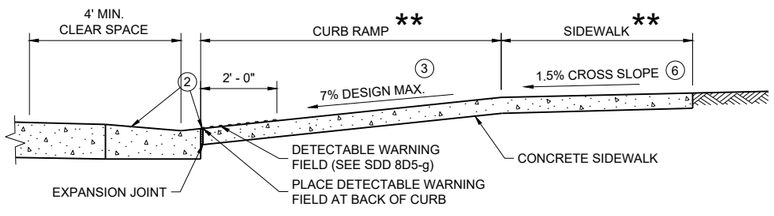
(NO TERRACE)



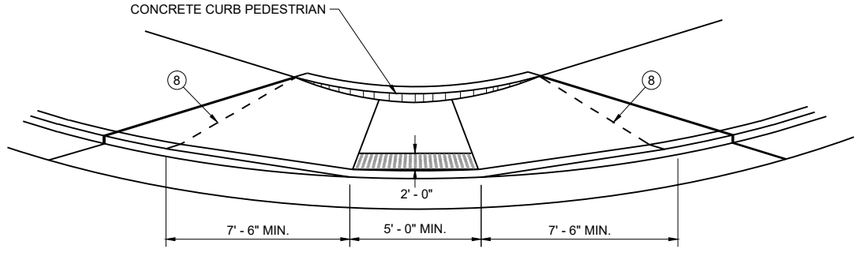
VIEW A - A FOR TYPE 1



SECTION C - C FOR TYPE 1 - A



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 CURB 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 CURB RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF CURB 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 CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A CLEAR SPACE IN THE STREET AND GUTTER AREA. WHEN THE GUTTER CROSS SLOPE EXCEEDS 2.1%, CONSTRUCT THE CLEAR SPACE IN THE STREET AREA AND THE 4 FOOT WIDTH IS MEASURED FROM THE FLANGE LINE. FOR RECONSTRUCTION AND MODERNIZATION PROJECTS THE CLEAR SPACE SLOPE PARALLEL TO THE CURBLINE SHOULD BE 2.1% MAX FOR CROSSINGS THAT ARE STOP AND YIELD CONTROLLED, AND 5% MAX FOR THOSE THAT ARE SIGNAL CONTROLLED. FOR PERPETUATION AND REHABILITATION PROJECTS THE SLOPE OF THE CLEAR SPACE PARALLEL TO THE CURBLINE WILL MATCH THE ROADWAY LONGITUDINAL SLOPE. THE SLOPE OF THE CLEAR SPACE PERPENDICULAR TO THE CURBLINE WILL MATCH THE ROADWAY CROSS SLOPE BUT SHOULD NOT EXCEED 5% UNLESS THE ROADWAY IS SUPERELEVATED (WHEN SUPERELEVATED THE ROADWAY CROSS SLOPE SHOULD MATCH THE SUPERELEVATION).

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

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

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

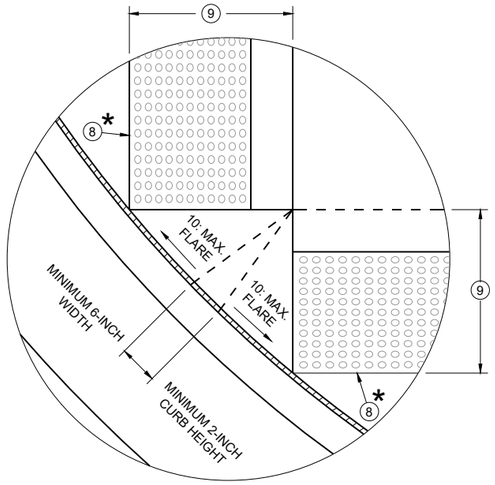
(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

LEGEND

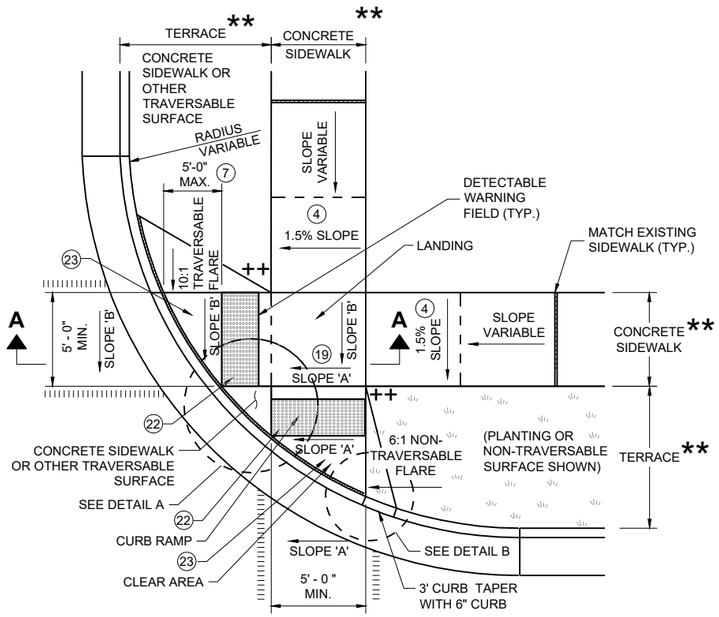
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- * MAXIMUM 8.3%
- ** WIDTH SHOWN ELSEWHERE IN THE PLANS

CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



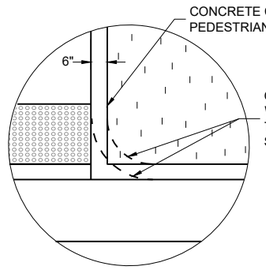
DETAIL A



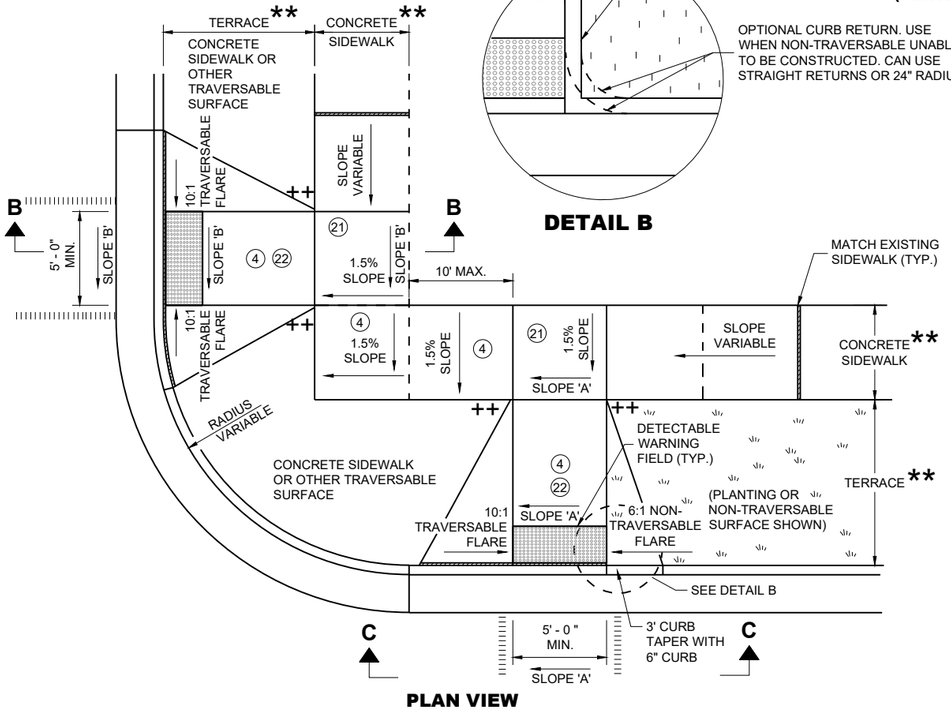
PLAN VIEW

CURB RAMP TYPE 2

(CENTER OF CORNER RADIUS)



DETAIL B



PLAN VIEW

CURB RAMP TYPE 3

(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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% DESIGN MAXIMUM SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% DESIGN MAXIMUM SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

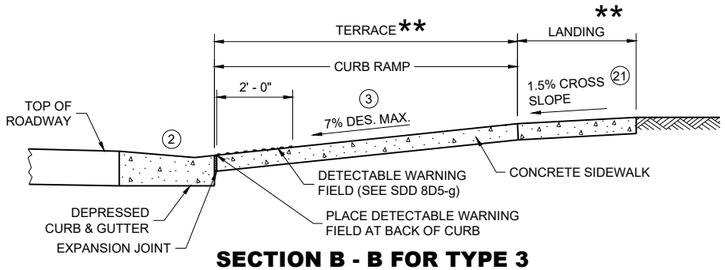
(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

(19) WHERE A LANDING SERVES TWO CURB RAMPS, THE LANDING SLOPE SHALL NOT EXCEED THE CROSS SLOPE AT THE BOTTOM OF THE RAMP OR WITHIN THE CROSSWALK PARALLEL TO THE DIRECTION OF TRAVEL.

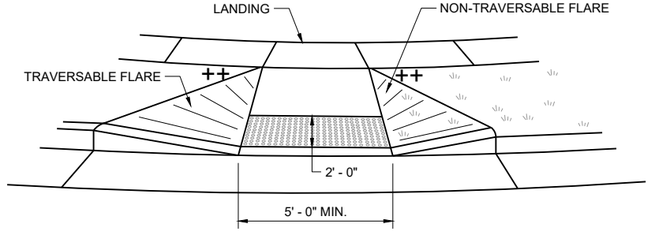
(21) PROVIDE A LANDING WITH A SLOPE PARALLEL TO ROADWAY THAT MATCHES SLOPE AT THE BOTTOM OF THE ADJACENT RAMP. SLOPE PERPENDICULAR TO ROADWAY SHALL BE 2.1% MAXIMUM. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

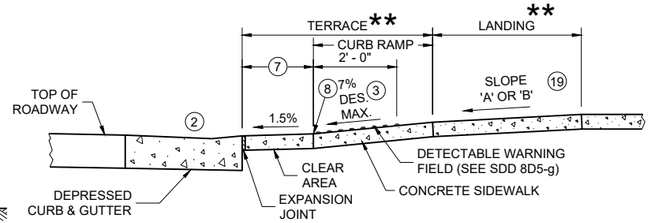
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3



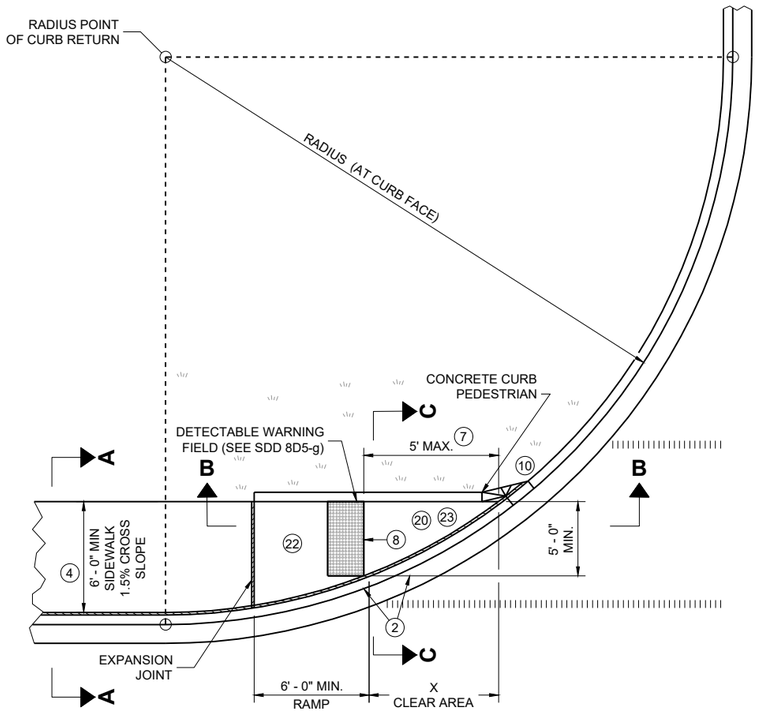
SECTION A - A FOR TYPE 2

LEGEND

▨	½" EXPANSION JOINT SIDEWALK
- - - -	CONTRACTION JOINT SIDEWALK
▥	PAVEMENT MARKING CROSSWALK (WHITE)
*	MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK
**	WIDTH SHOWN ELSEWHERE IN THE PLANS
++	CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

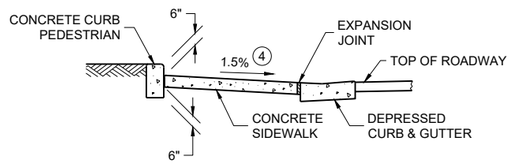
CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

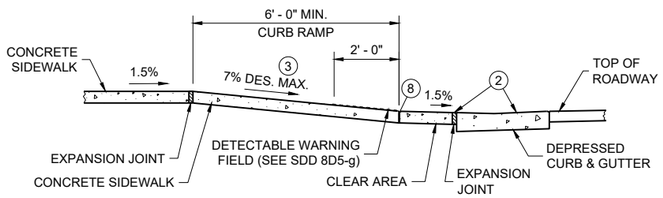


PLAN VIEW

CURB RAMP TYPE 4A



SECTION C - C FOR TYPE 4A



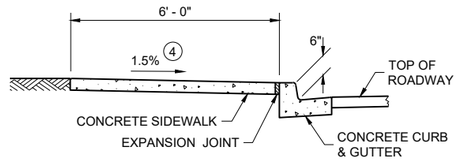
SECTION B - B FOR TYPE 4A AND TYPE 4A1

LEGEND

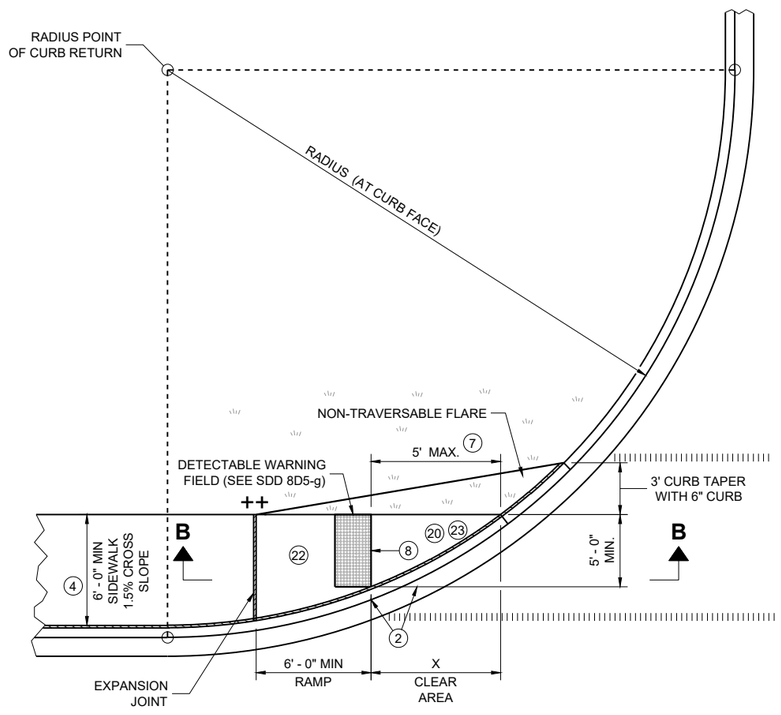
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

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

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A



PLAN VIEW

CURB RAMP TYPE 4A1

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

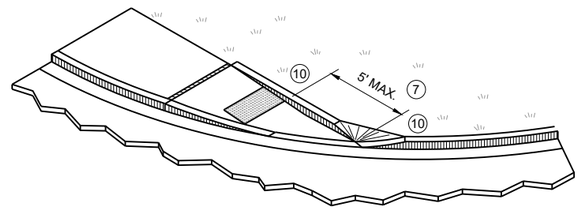
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

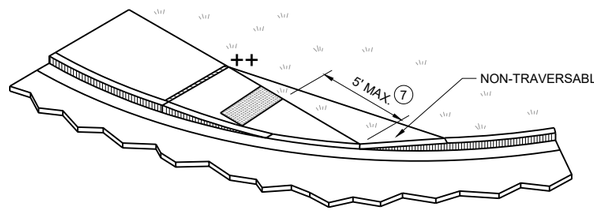
(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



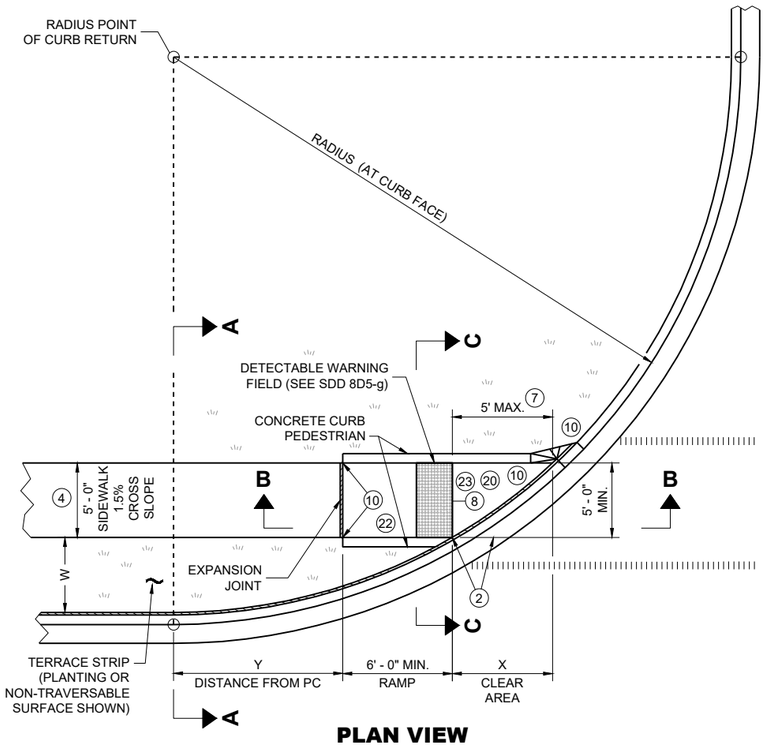
ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

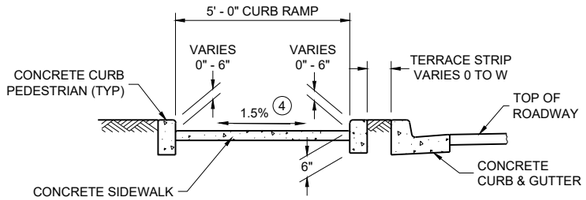
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PLAN VIEW
CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET			4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET									4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET															4' - 10 ¾"	19' - 8 ¼"

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)
- * MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

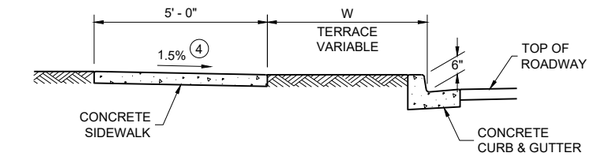
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

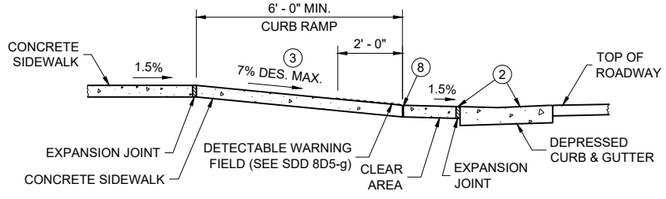
(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

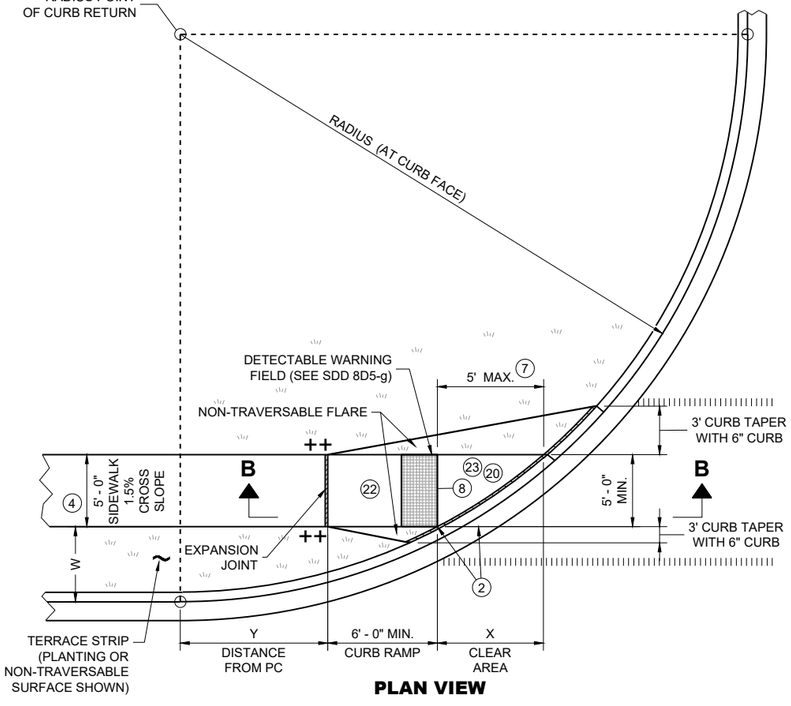
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



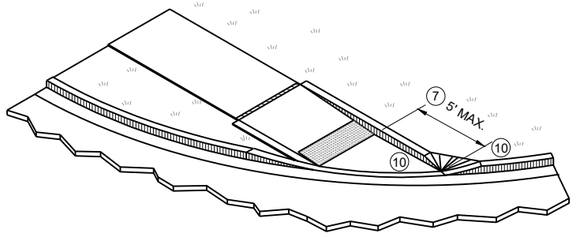
SECTION A - A FOR TYPE 4B



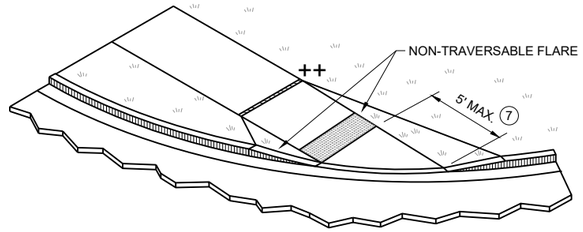
SECTION B - B FOR TYPE 4B AND TYPE 4B1



PLAN VIEW
CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



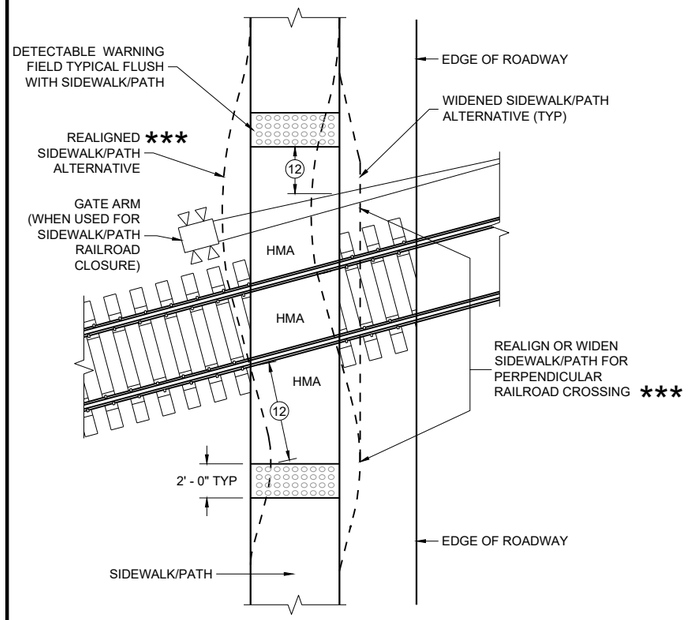
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

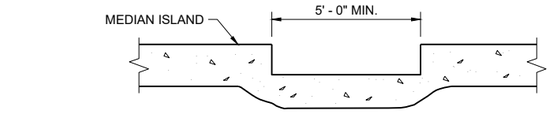
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SDD 08D05-22d

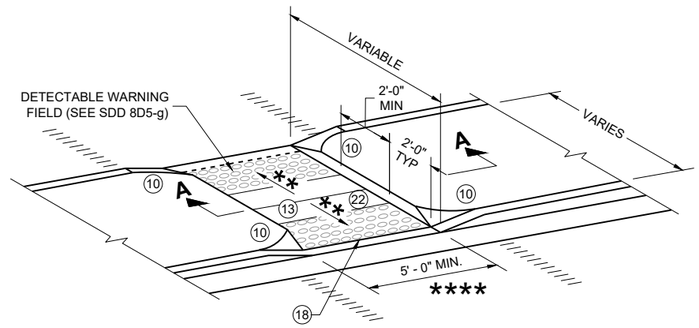


CURB RAMP TYPE 8

DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 2.1%.

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

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

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

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

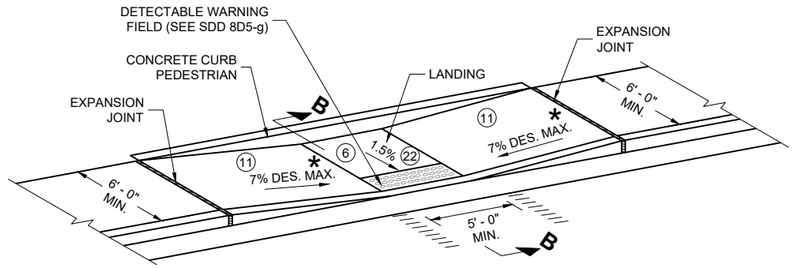
(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK/PATH, WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM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

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

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

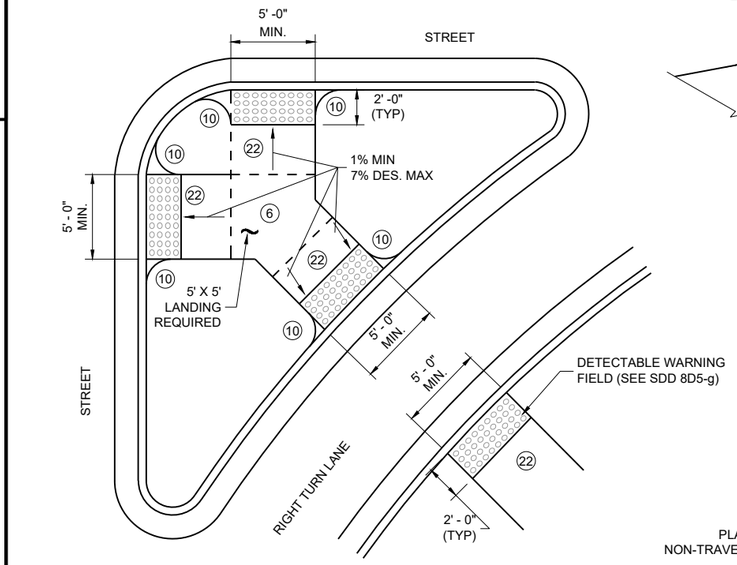
(18) WHEN THE DISTANCE BETWEEN THE BACK OF CURBS IS LESS THAN 6 FEET BUT THE FACE OF CURB TO FACE OF CURB DISTANCE IS 6 FEET OR GREATER THEN THE DETECTABLE WARNING FIELDS MAY BE MOVED SO THAT THE EDGE OF THE WARNING FIELD IS PLACED AT THE GUTTER FLOWLINE. MAINTAIN A MINIMUM OF TWO FEET BETWEEN DETECTABLE WARNING FIELD PANELS.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.



CURB RAMP TYPE 7A

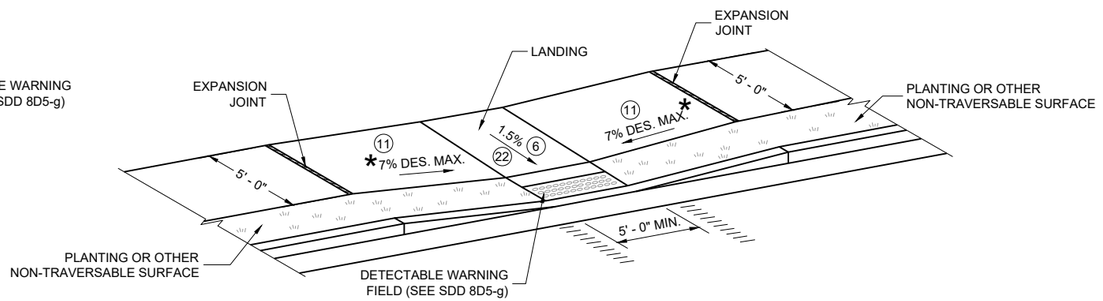
FOR INTERSECTIONS AND MID BLOCK CROSSINGS



CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

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

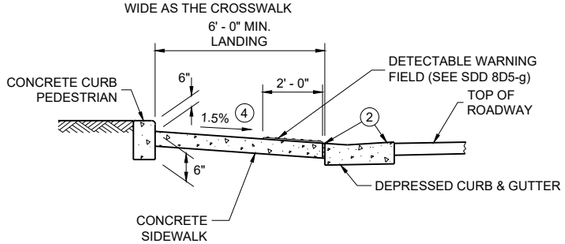


CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

LEGEND

═══	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT FIELD LOCATED
ıı ıı ıı ıı	PAVEMENT MARKING CROSSWALK (WHITE)
*	MAXIMUM 8.3%
**	1% MINIMUM (PROVIDE DRAINAGE)
***	DETAILS TO BE DETERMINED BY ENGINEER
****	FOR SHARED USE PATHS, WIDTH MUST BE AS WIDE AS THE CROSSWALK



SECTION B - B FOR TYPE 7A

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

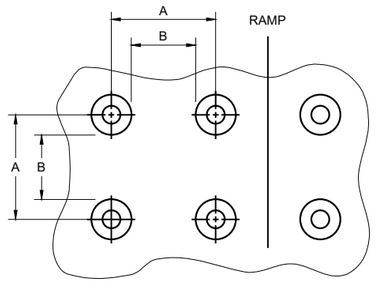
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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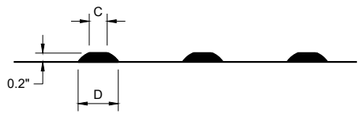
SDD 08D05-22e

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

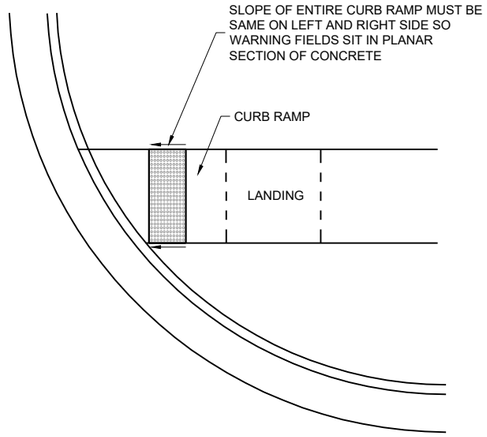
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

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

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

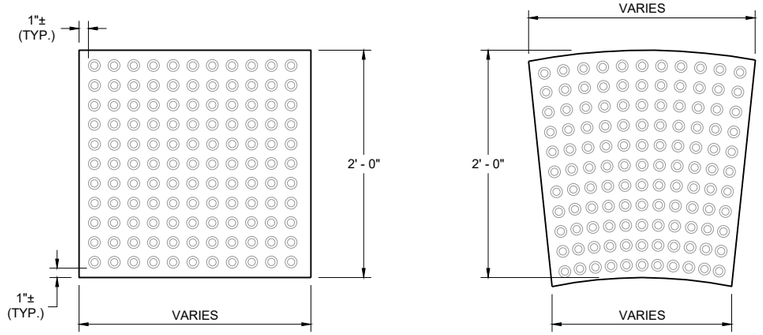
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

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

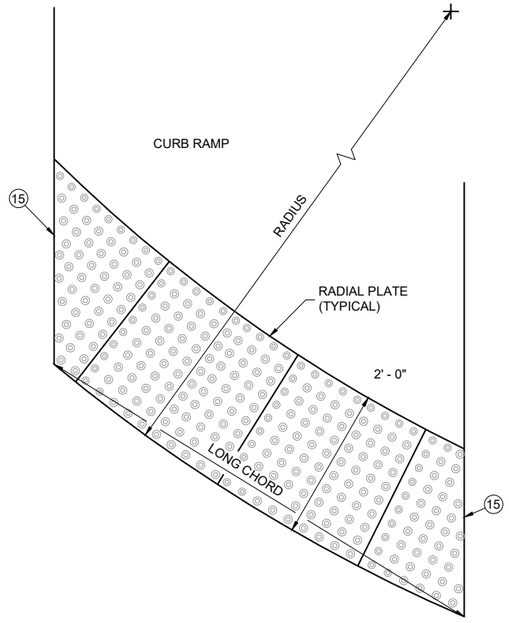
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



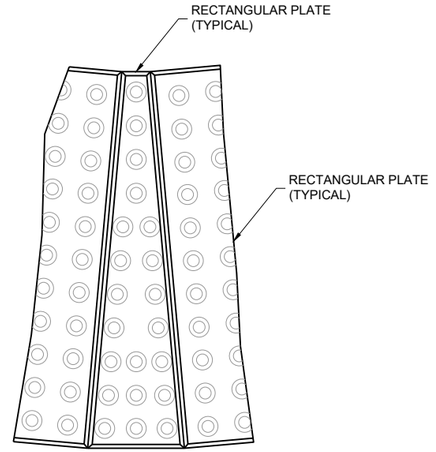
RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

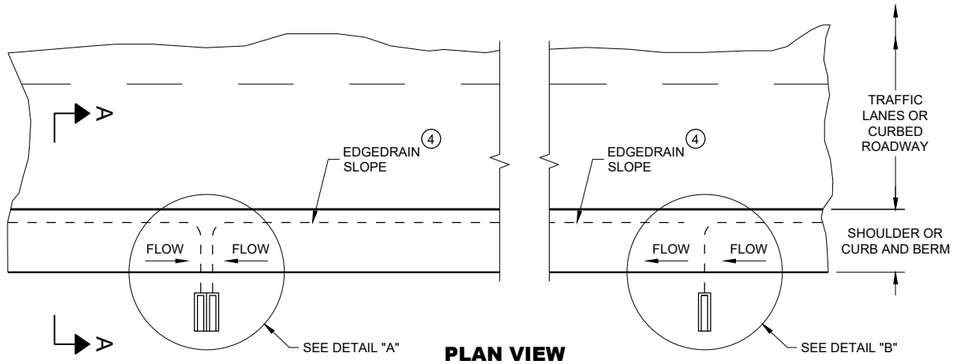
CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — <position>

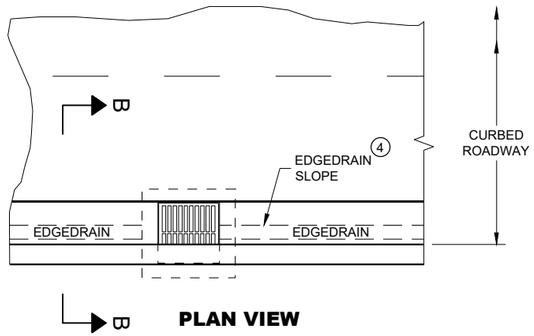
FHWA

6
SDD 08D05-22g



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS
(EDGEDRAIN CONNECTS TO ROADSIDE) (2)



PLAN VIEW

ROADWAY WITH CURBS
(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)

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) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

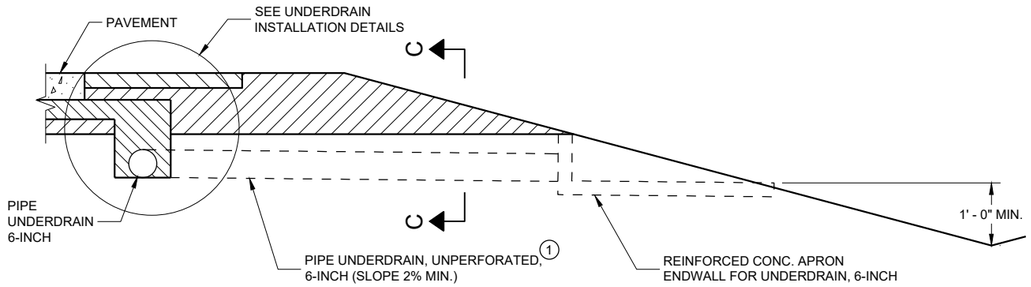
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

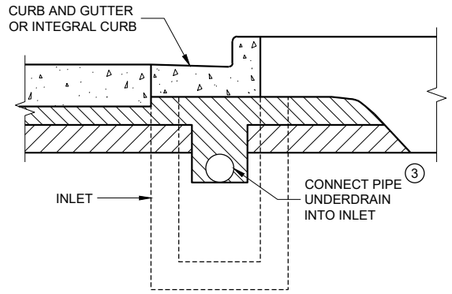
(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



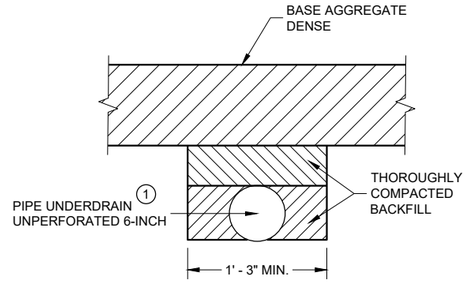
SECTION A - A

RURAL CROSS SECTION



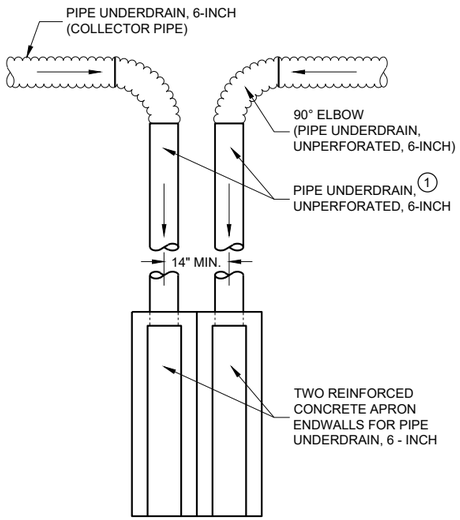
SECTION B - B

URBAN CROSS SECTION

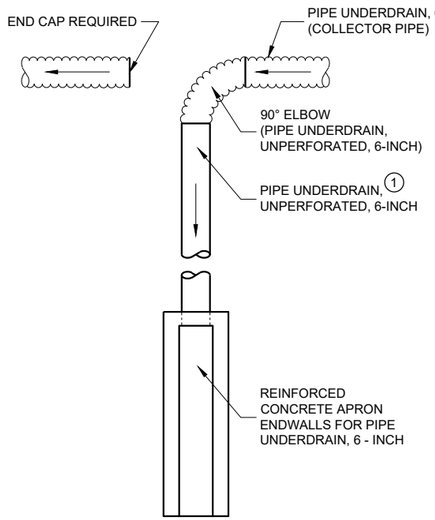


SECTION C - C

TRENCH FOR OUTFALL PIPE

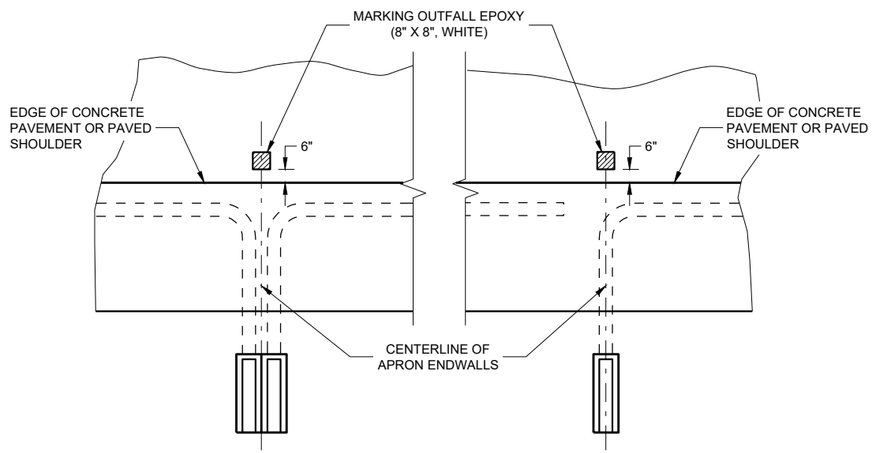


DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS



DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



LOW POINT LOCATIONS — INTERMEDIATE LOCATIONS

PAVEMENT MARKINGS FOR OUTFALL MARKERS

EDGEDRAIN OUTLET AND OUTFALL MARKERS

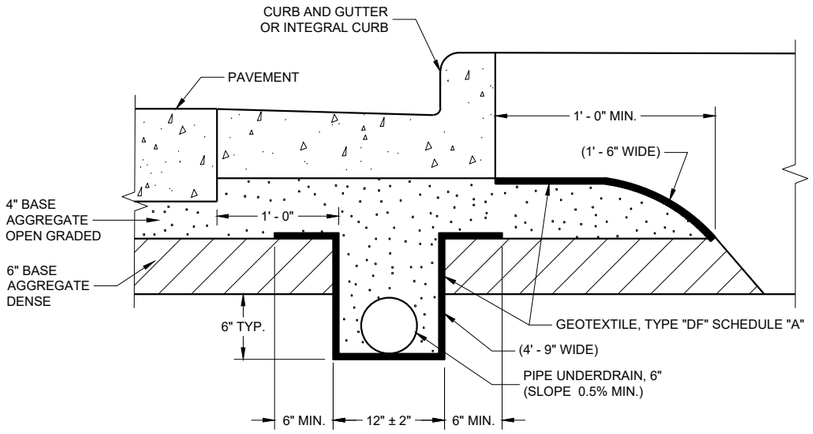
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD08D15 - 05a

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SDD08D15 - 05a



EDGEDRAIN IN URBAN ROADWAY

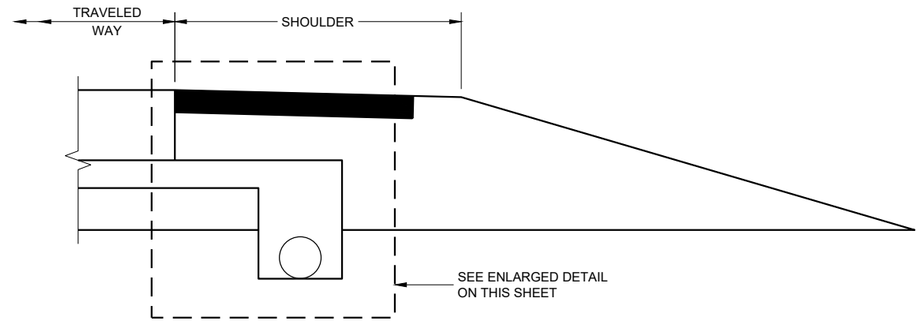
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

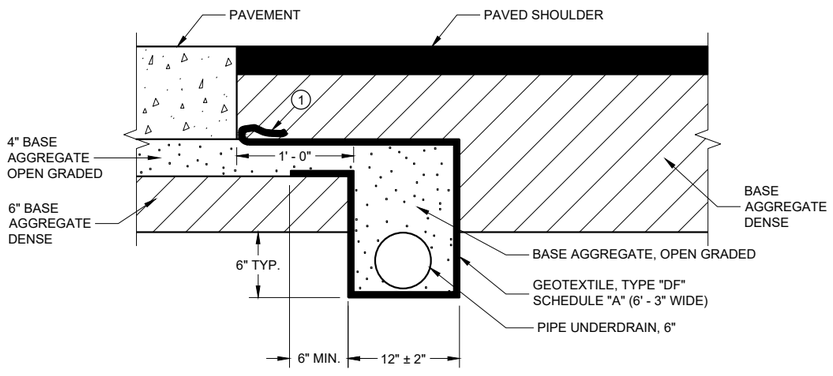
(1) FOLD OVER EXCESS GEOTEXTILE AT THIS LOCATION.

(2) TOTAL GEOTEXTILE WIDTH IS 6'-3" FOR PAYMENT.



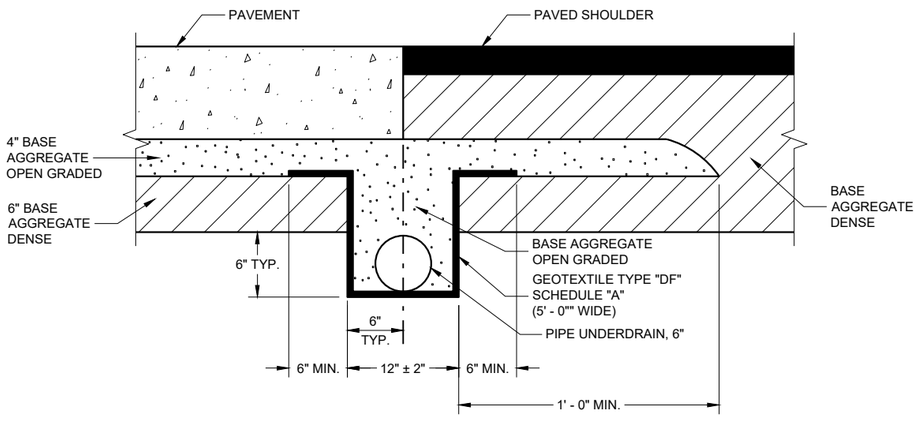
RURAL CROSS SECTION

6



POST PAVING INSTALLATION

(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

6

SDD 08D15 - 05b

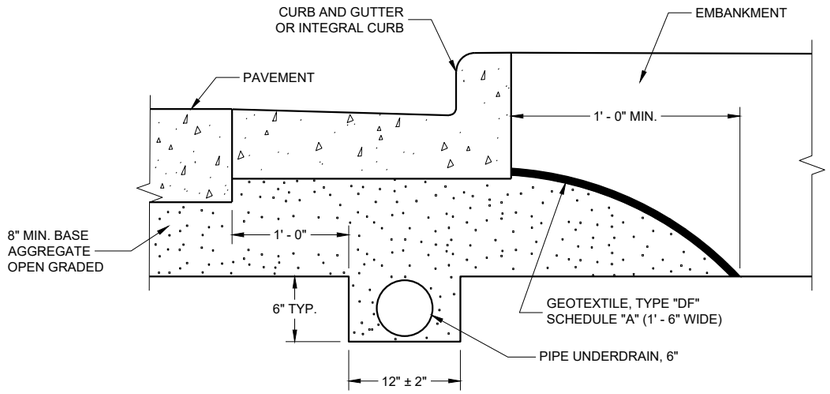
EGEDRAIN AND BASE AGGREGATE OPEN GRADED

SDD 08D15 - 05b

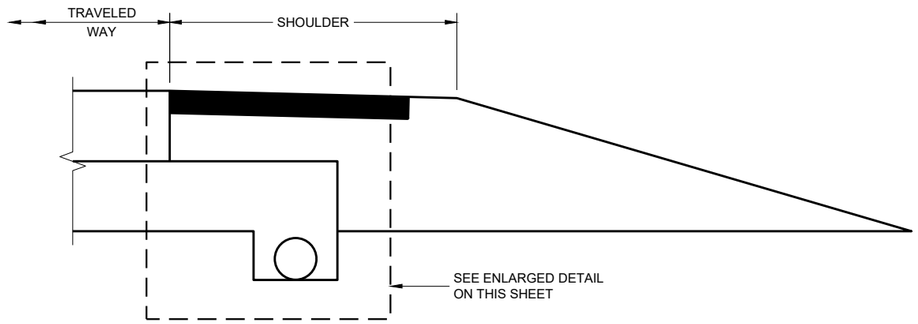
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

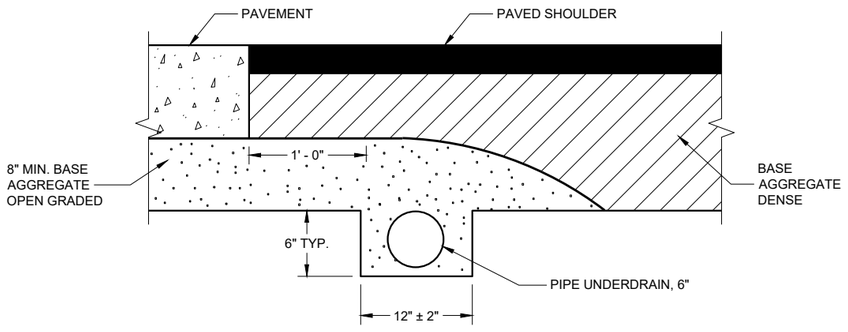


EDGEDRAIN IN URBAN ROADWAY



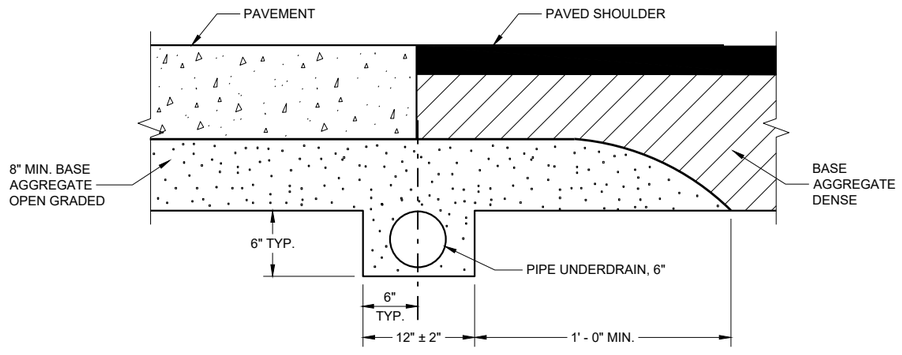
RURAL CROSS SECTION

6



POST PAVING INSTALLATION

(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

6

SDD 08D15 - 05c

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED

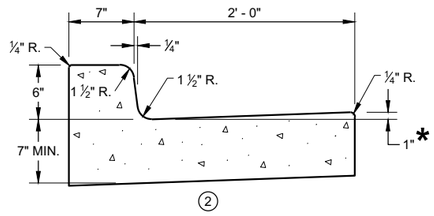
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2015
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVIS

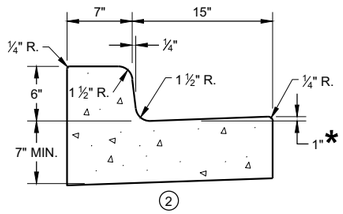
FHWA

SDD 08D15 - 05c

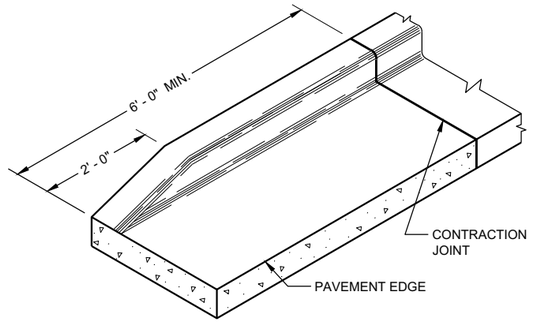


CONCRETE CURB AND GUTTER 31" ①

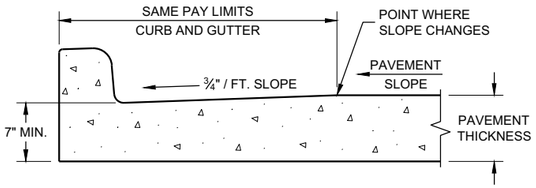
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



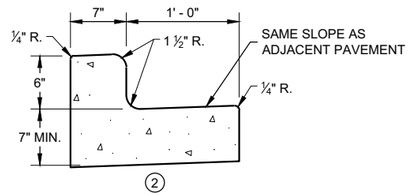
CONCRETE CURB AND GUTTER 22" ①



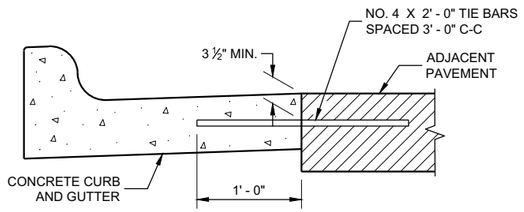
END SECTIONCURB AND GUTTER



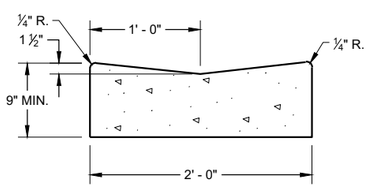
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



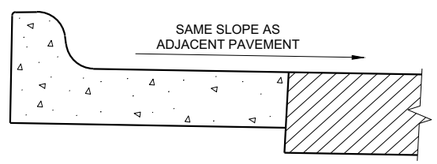
CONCRETE CURB AND GUTTER 19" ①



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.

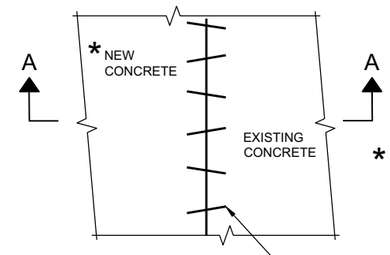
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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".

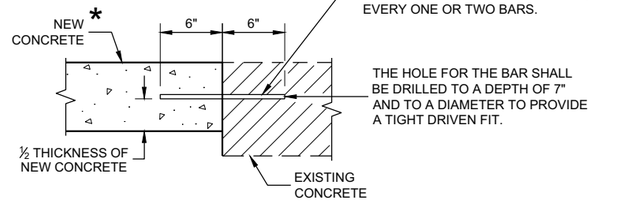
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

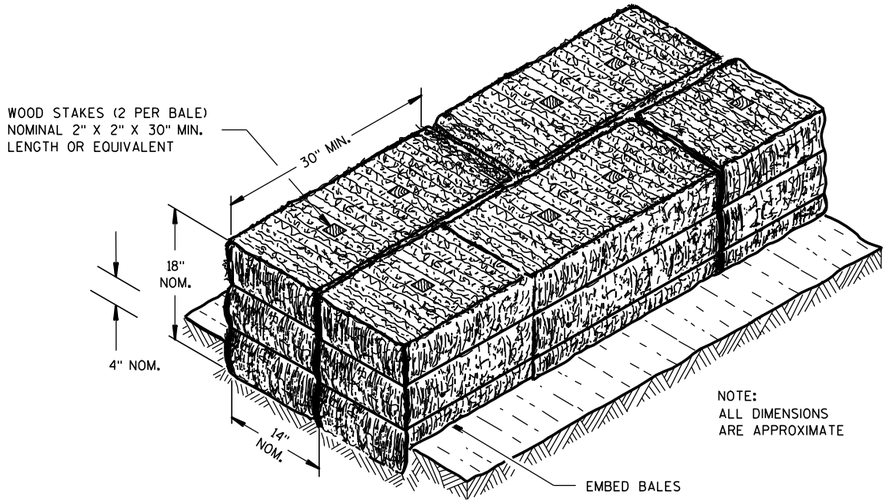
(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

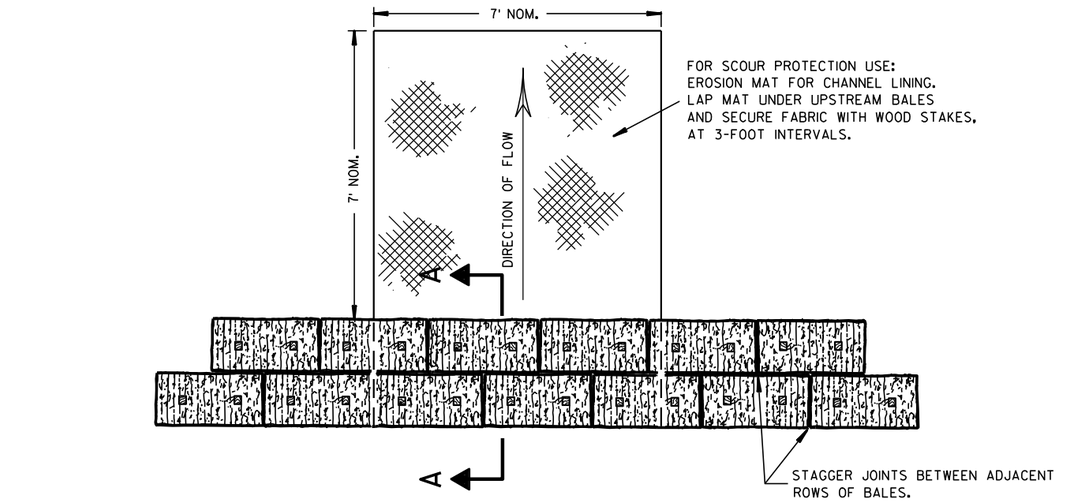
APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 08D16 - 11

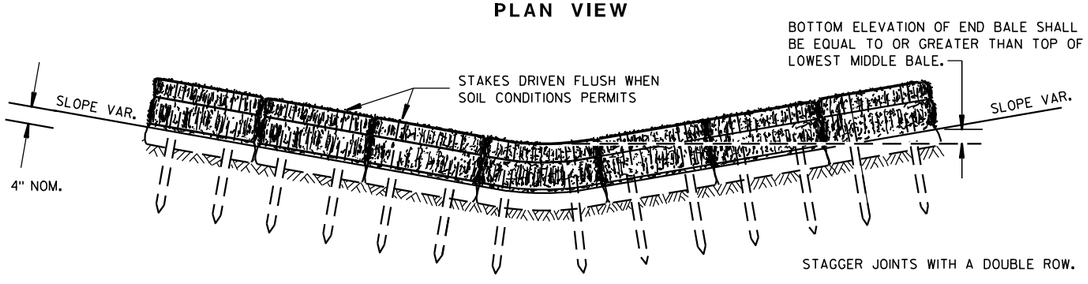
SDD 08D16 - 11



SECTION A-A



PLAN VIEW



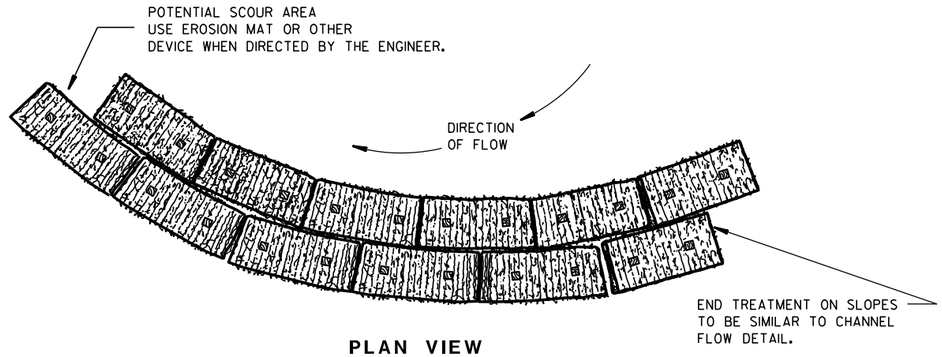
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

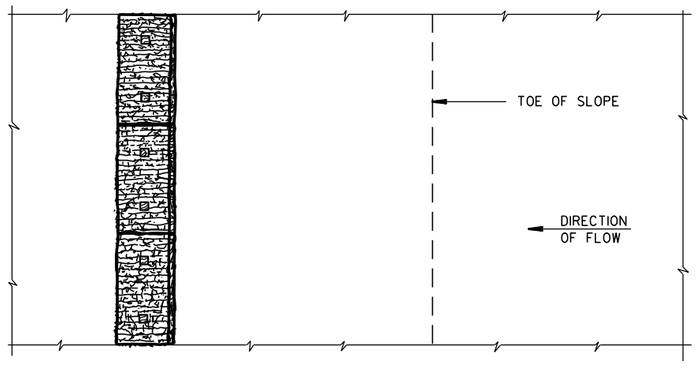
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

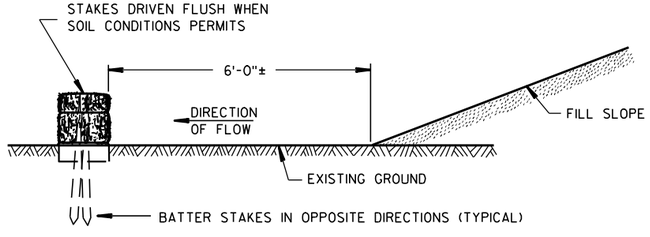


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

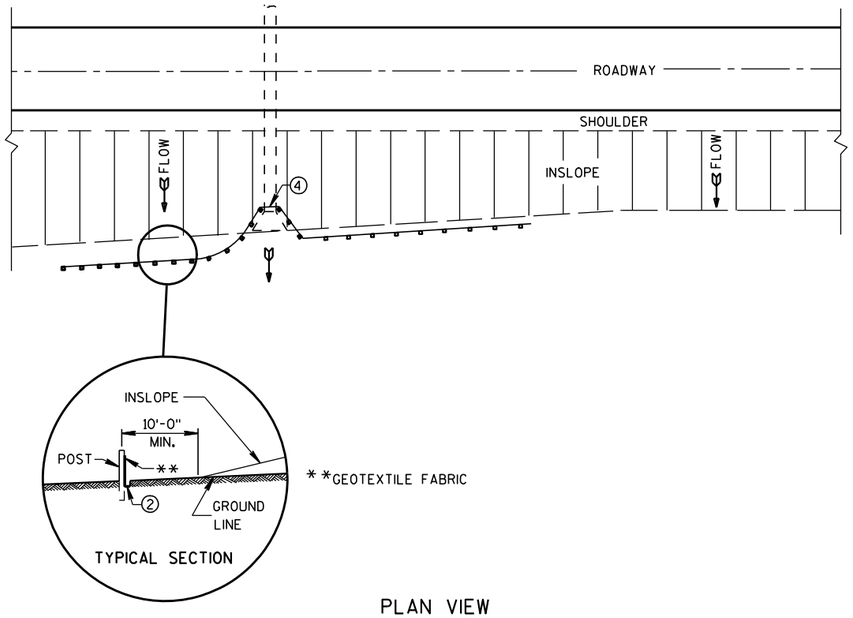
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

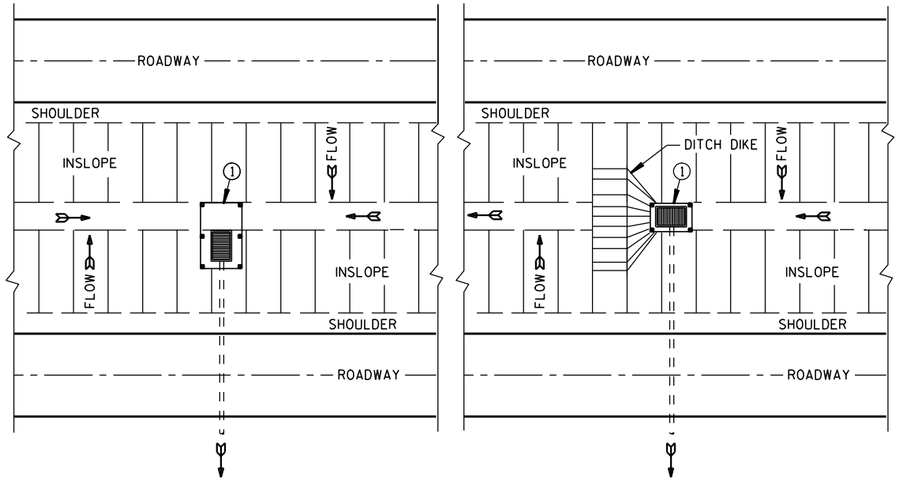
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



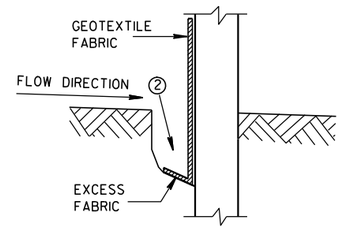
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

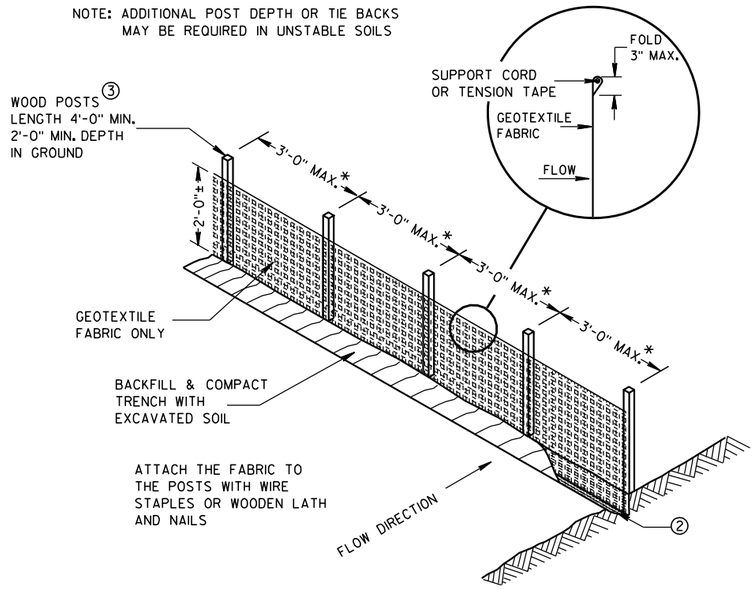
GENERAL NOTES

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

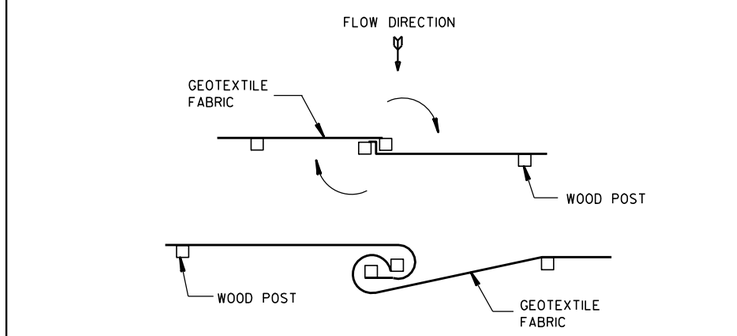
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



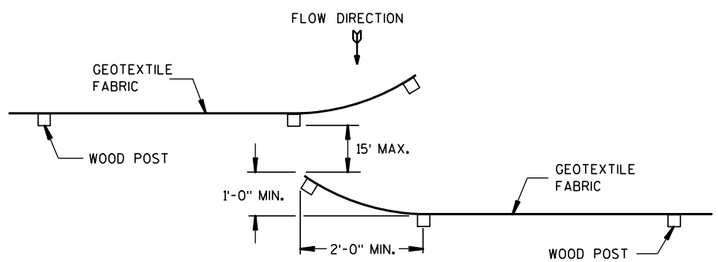
TRENCH DETAIL



SILT FENCE

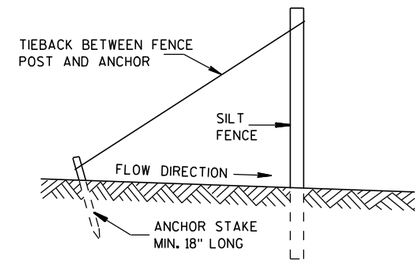


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

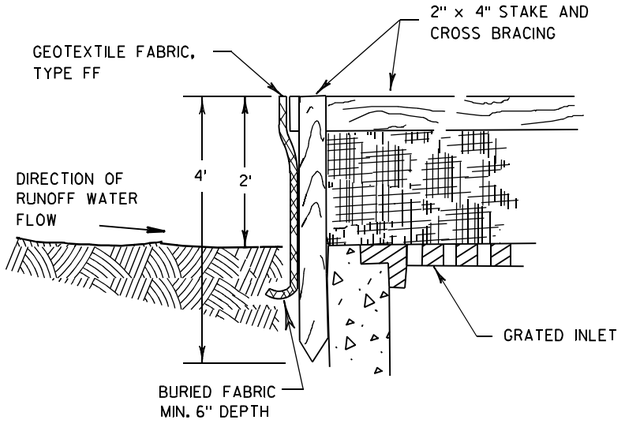
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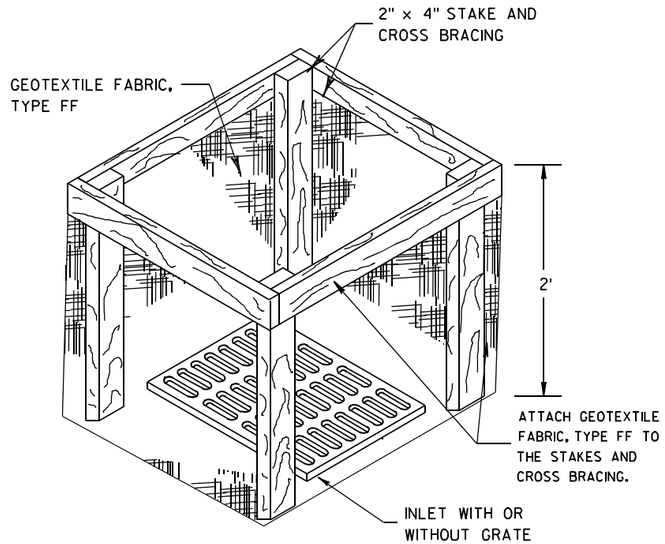
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S.D.D. 8 E 9-6

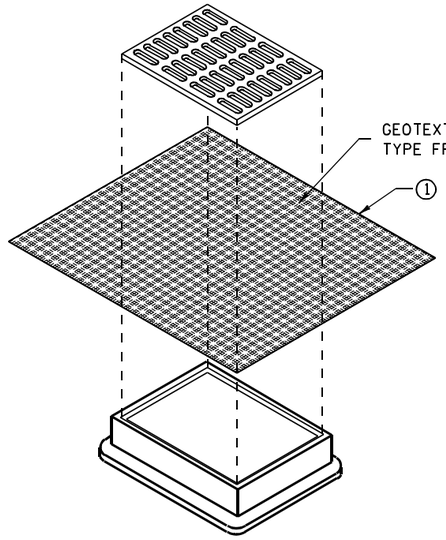
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S.D.D. 8 E 9-6



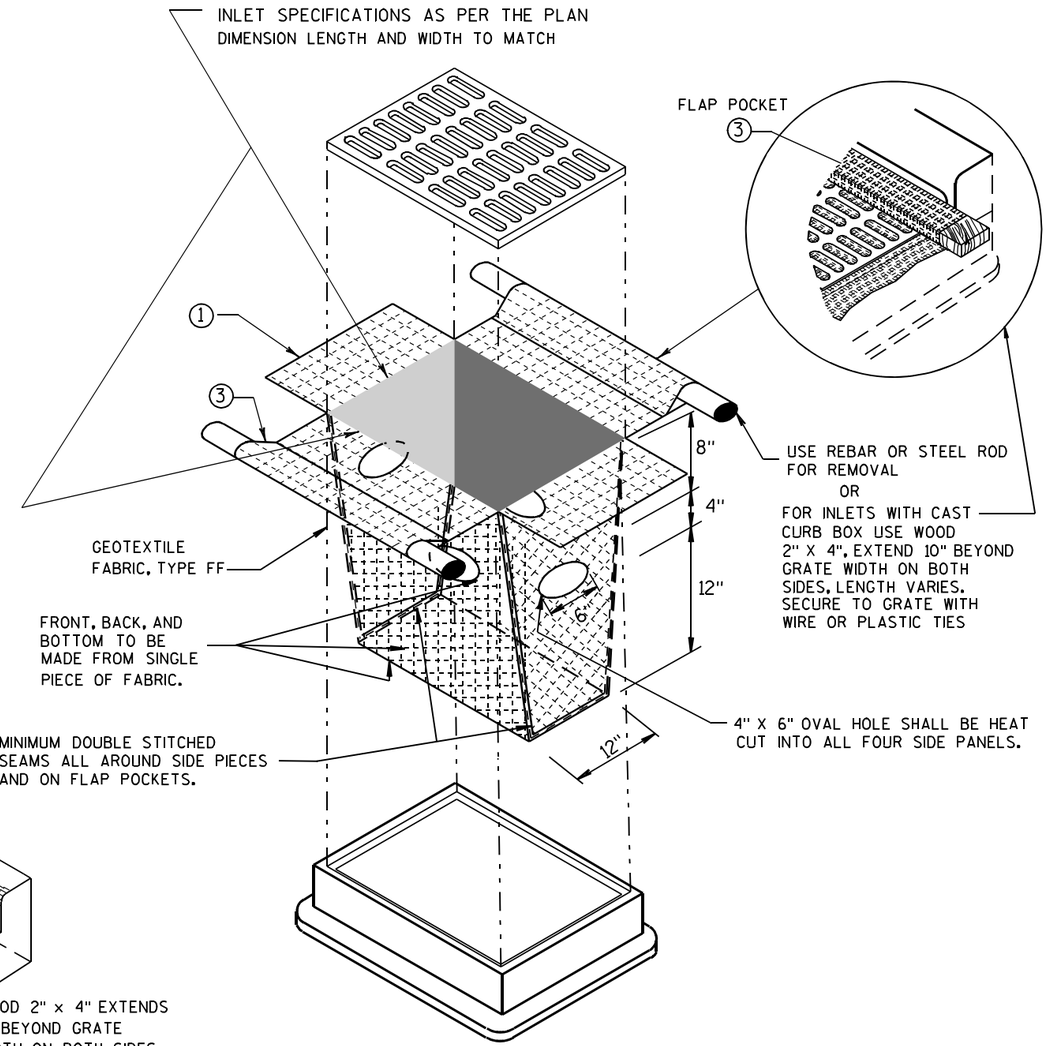


INLET PROTECTION, TYPE A



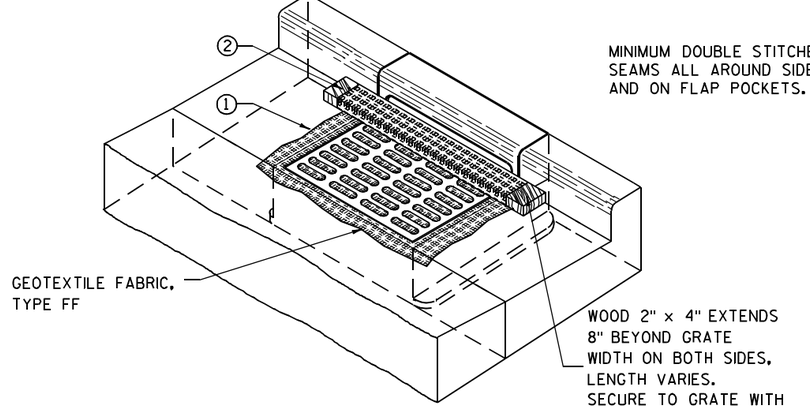
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

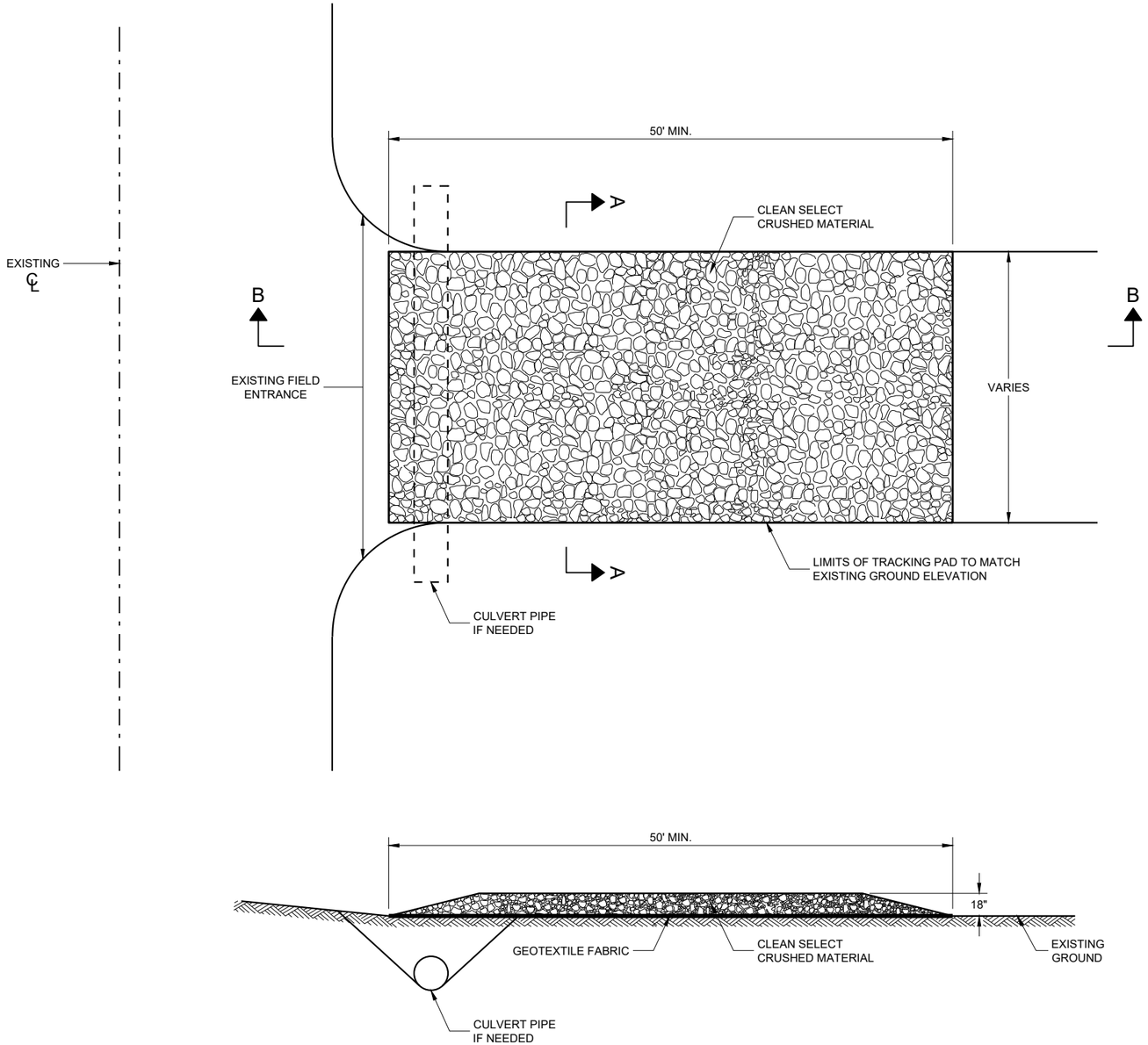
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



SECTION B - B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

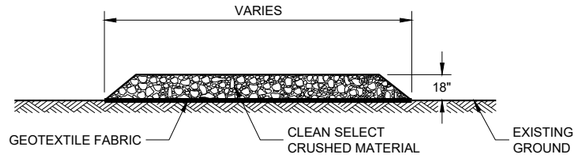
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

6

SDD 08E14 - 01

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

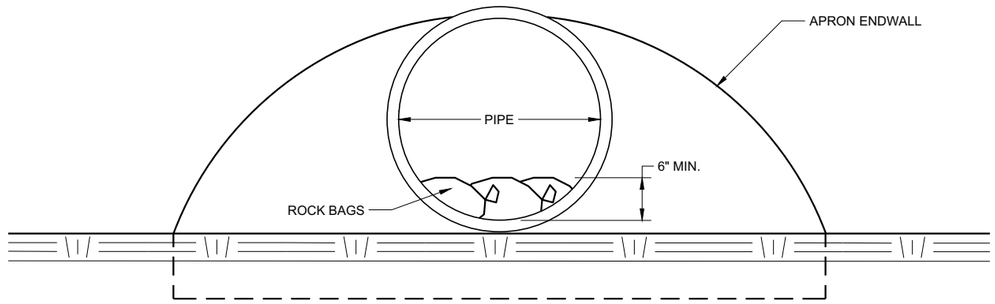
3/24/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

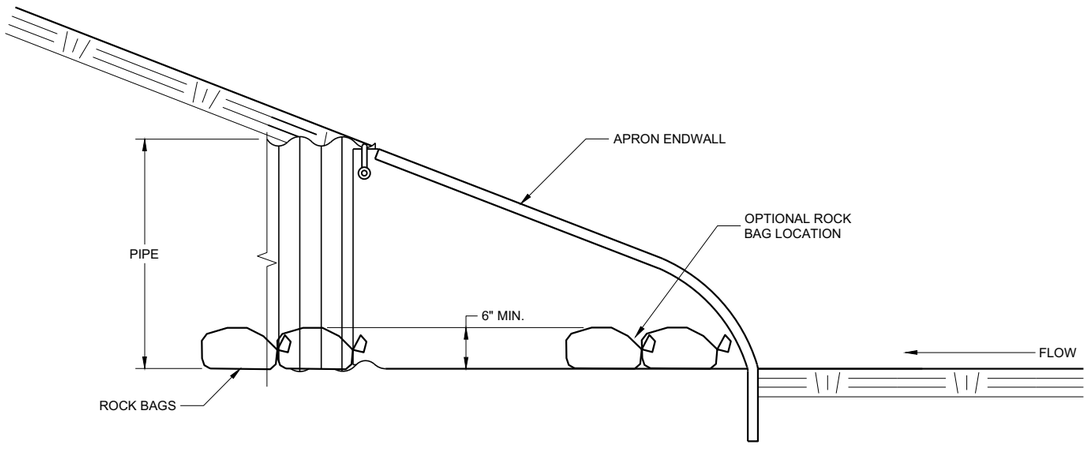
FHWA

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SDD 08E14 - 01



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

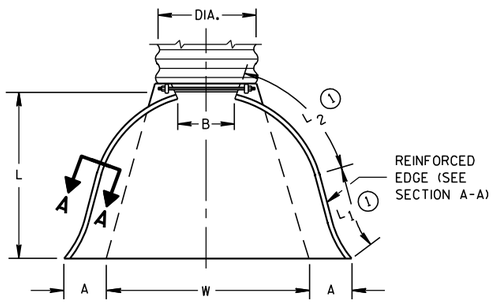
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

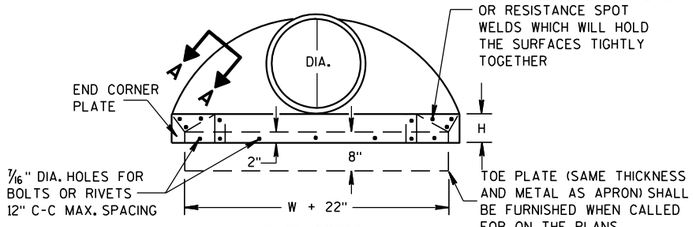
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

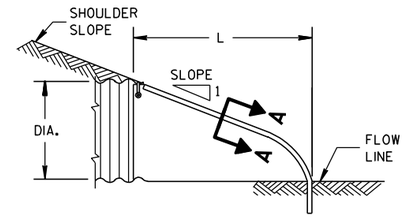
* MINIMUM
** MAXIMUM



PLAN VIEW

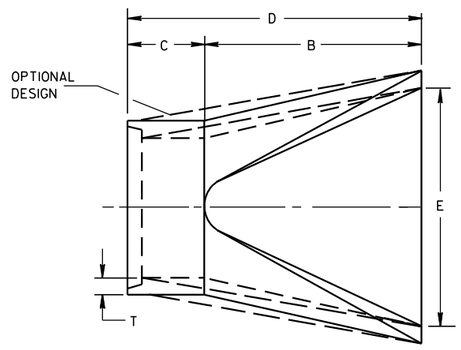


END VIEW

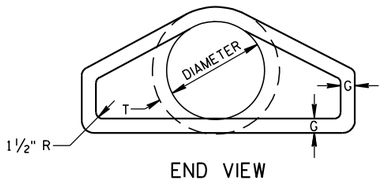


SIDE ELEVATION

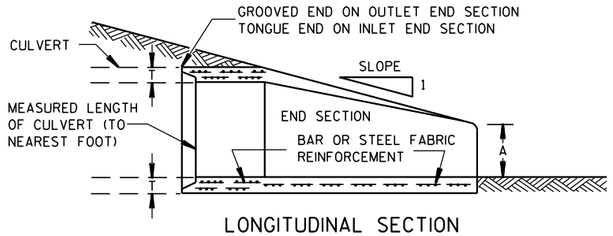
METAL ENDWALLS



PLAN

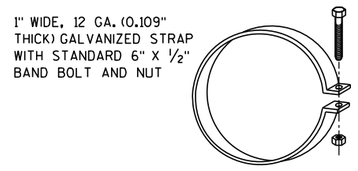


END VIEW



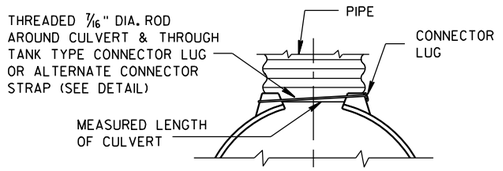
LONGITUDINAL SECTION

CONCRETE ENDWALLS

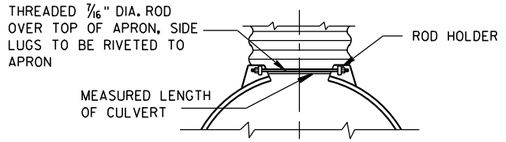


ALTERNATE FOR TYPE 1 CONNECTION

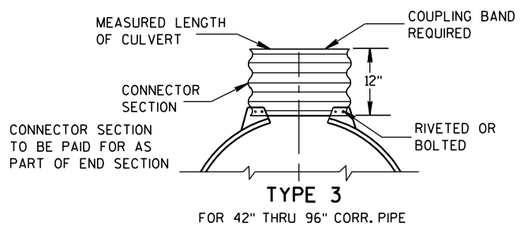
END SECTION CONNECTOR STRAP



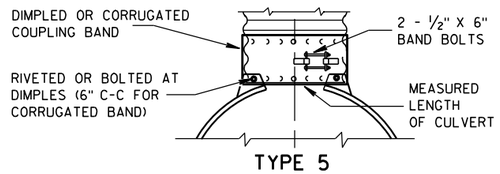
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

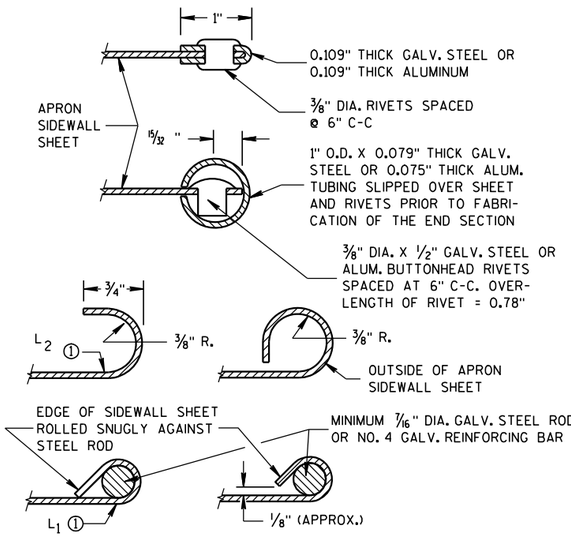
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

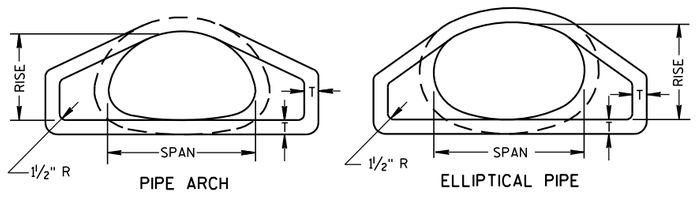
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

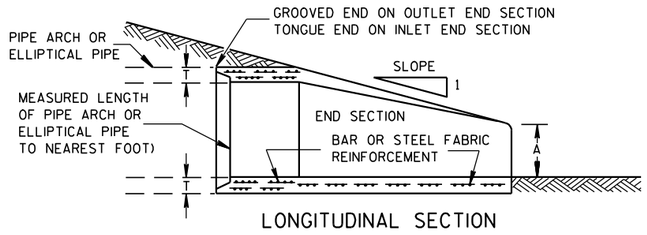
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 557 NEER
FHWA

6

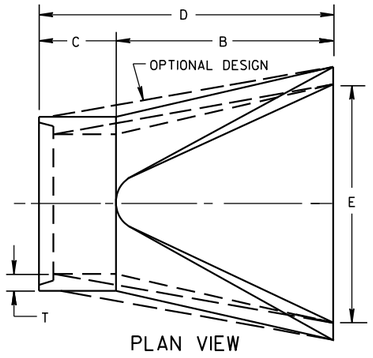
S.D.D. 8 F 1-11



END VIEW

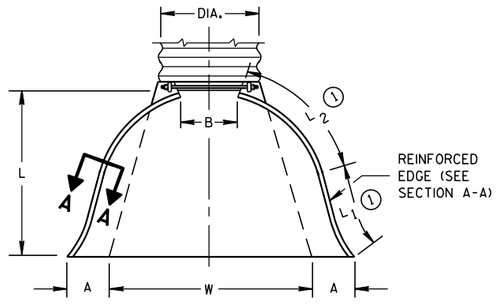


LONGITUDINAL SECTION

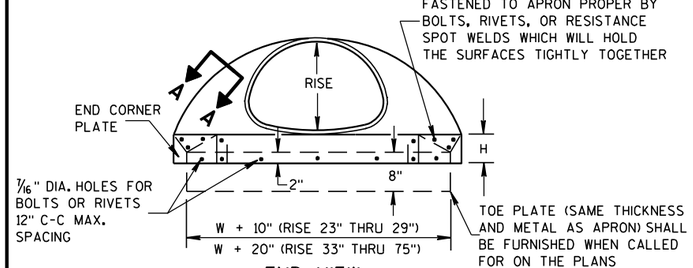


PLAN VIEW

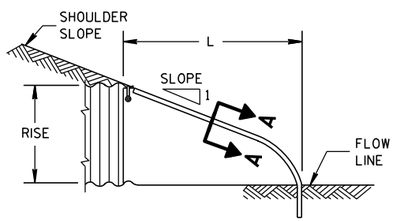
CONCRETE ENDWALLS



PLAN VIEW

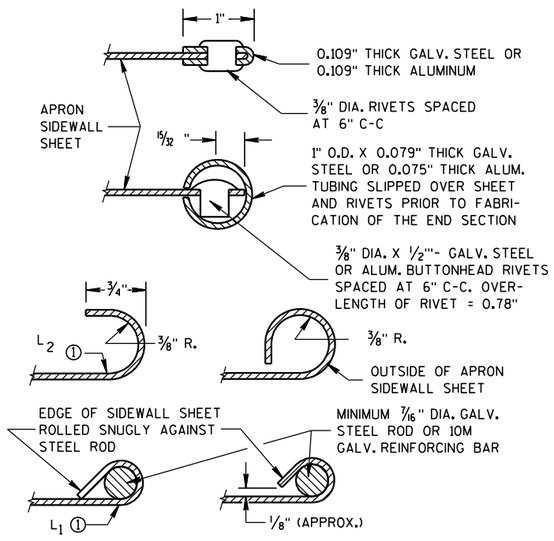


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

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

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	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

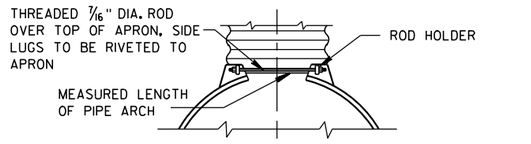
REINFORCED CONCRETE PIPE ARCH

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

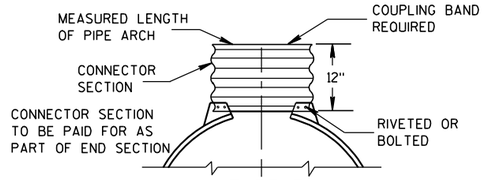
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48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

**NOMINAL SIZE



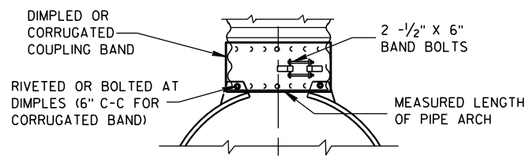
TYPE 2

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

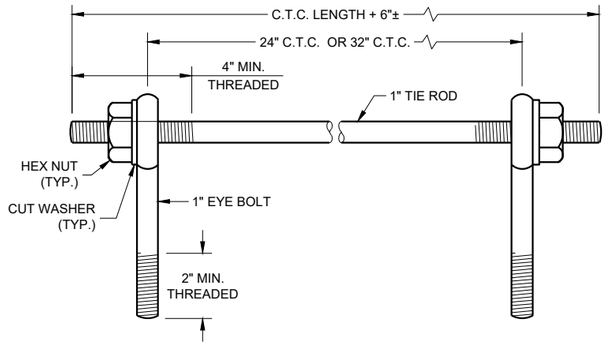
FHWA

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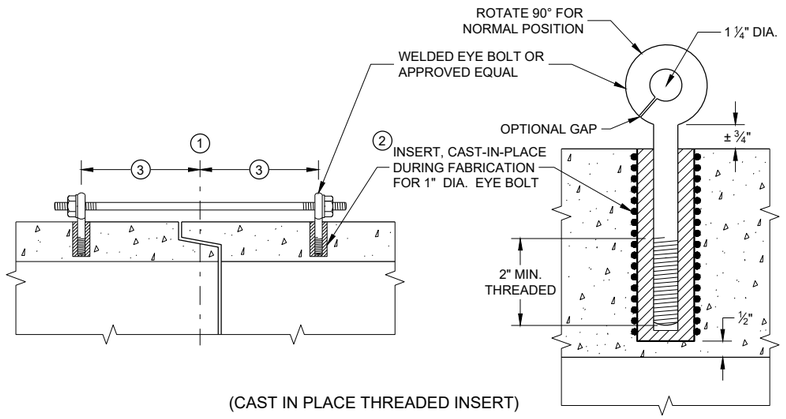
S.D.D. 8 F 2-1

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

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

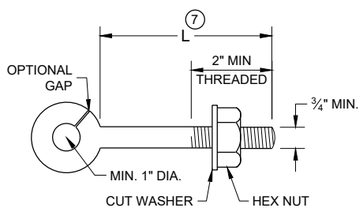
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

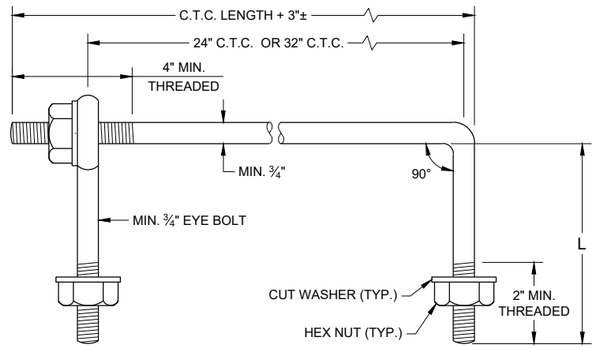
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

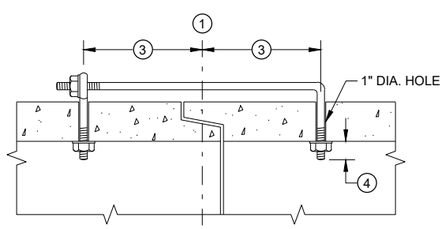


EYE BOLT (7)

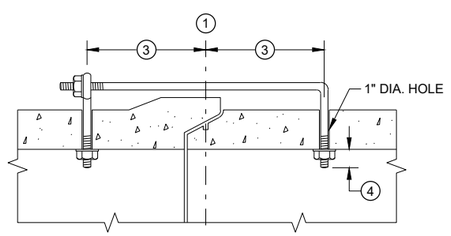
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

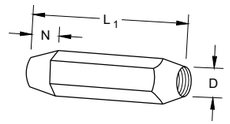
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

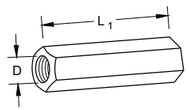
ADJUSTABLE TIE ROD TABLE

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

DIMENSIONS SHOWN ARE IN INCHES



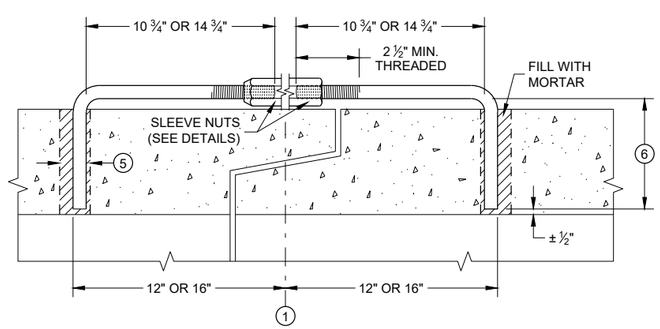
TAPERED



PLAIN

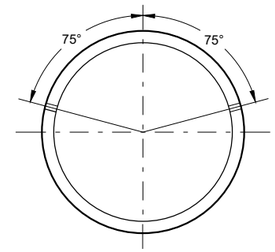
RIGHT AND LEFT THREADS

SLEEVE NUTS



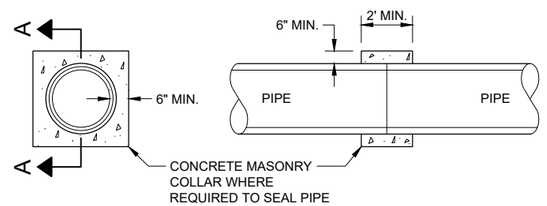
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

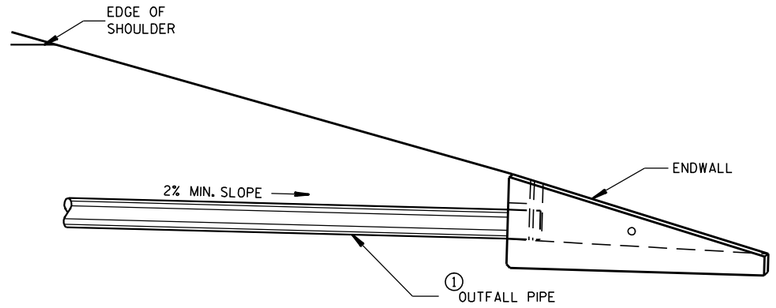
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DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION 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.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

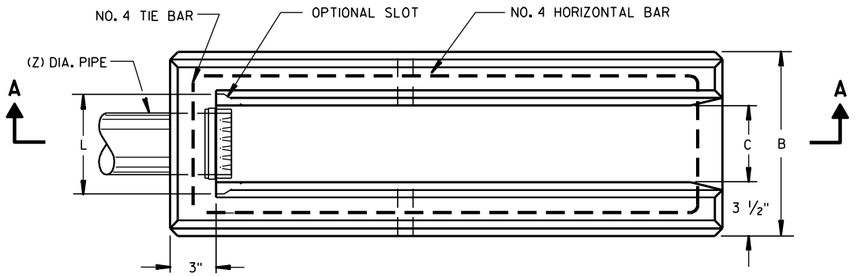
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

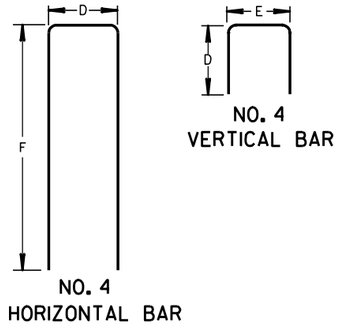
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

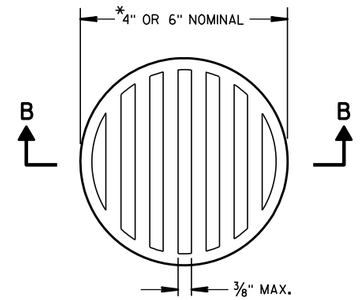
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

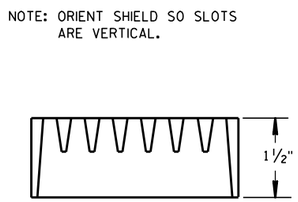


PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

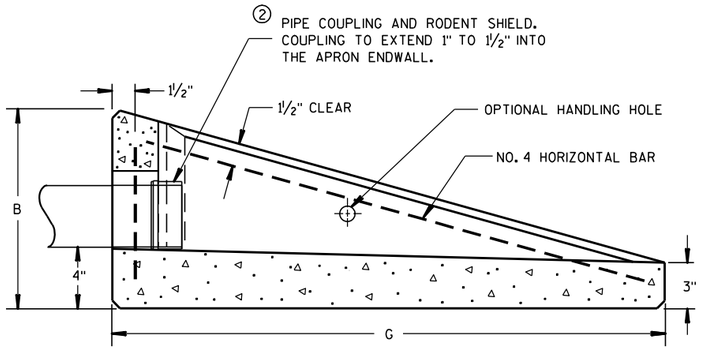




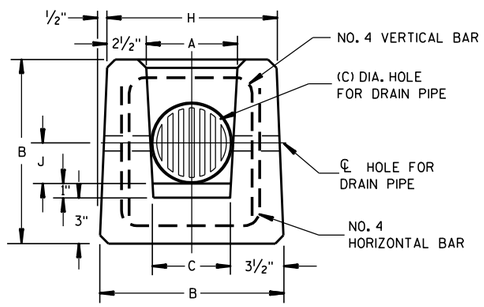
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

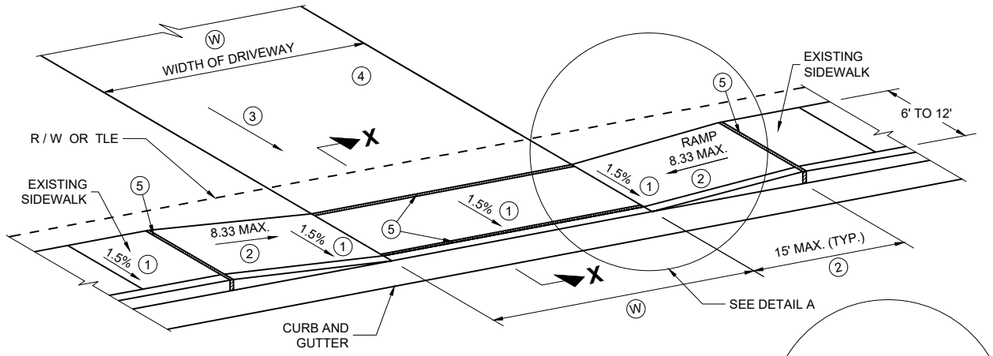
REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

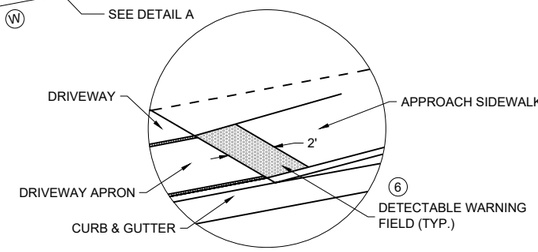
APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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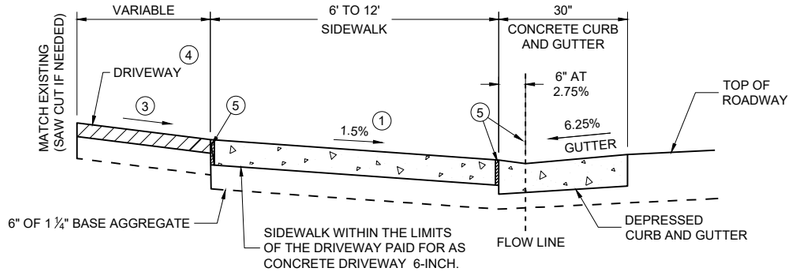
S.D.D. 8 F 6-4



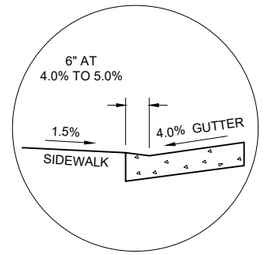
TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



DETAIL A



SECTION X - X

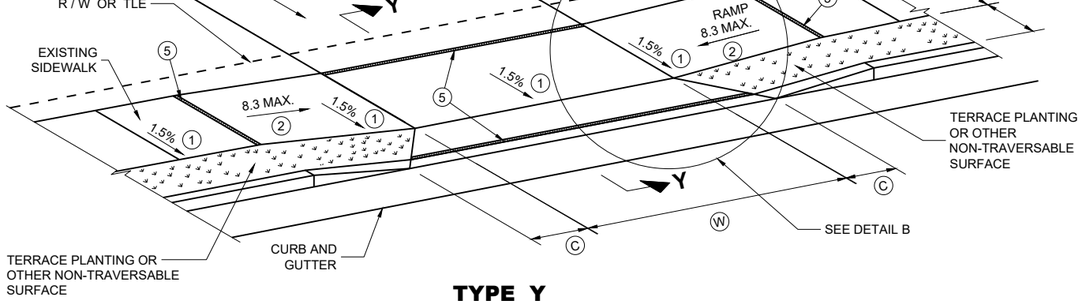


SECTION X - X
4% GUTTER SLOPE

Ⓦ : DRIVEWAY WIDTHS (MEASURED AT ROW LINE)
- ~ COMMERCIAL & INDUSTRIAL 16' MIN. - 35' MAX.
- ~ RESIDENTIAL & AGRICULTURAL (NONCOMMERCIAL) 16' MIN. - 24' MAX.

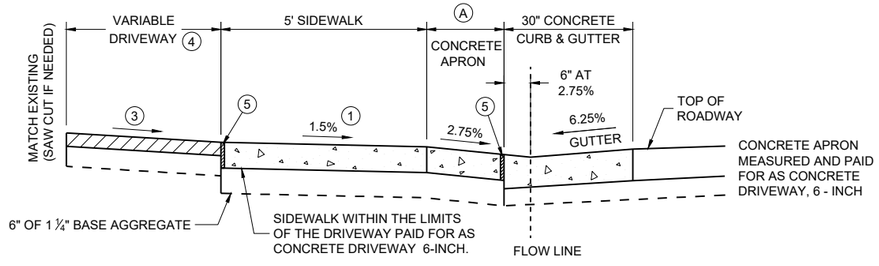
TABLE Y

Ⓐ FEET	Ⓒ FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'



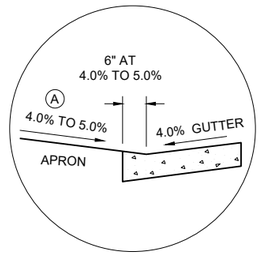
TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

Ⓐ:MEASURE FROM BACK OF CURB



NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y - Y



SECTION Y - Y
4% GUTTER SLOPE

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER
(URBAN AND SUBURBAN)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

Ⓦ IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

① CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1%.

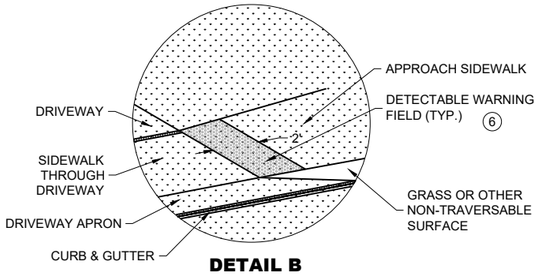
② THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

③ DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

④ DRIVEWAY TYPES
- * 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- * 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- * 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

⑤ 1/2" EXPANSION JOINT FILLER

⑥ DETECABLE WARNING FIELDS ARE REQUIRED WHEN A PEDESTRIAN CIRCULATION ROUTE CROSSES A DRIVEWAY THAT IS TRAFFIC SIGNAL, STOP, OR YIELD SIGN CONTROLLED. DETECTABLE WARNING FIELDS TO BE 2 FT DEEP AND EXTEND THE WIDTH OF THE PEDESTRIAN CIRCULATION ROUTE.



DETAIL B

DRIVEWAY AND SIDEWALK RAMPS TYPES X AND Y

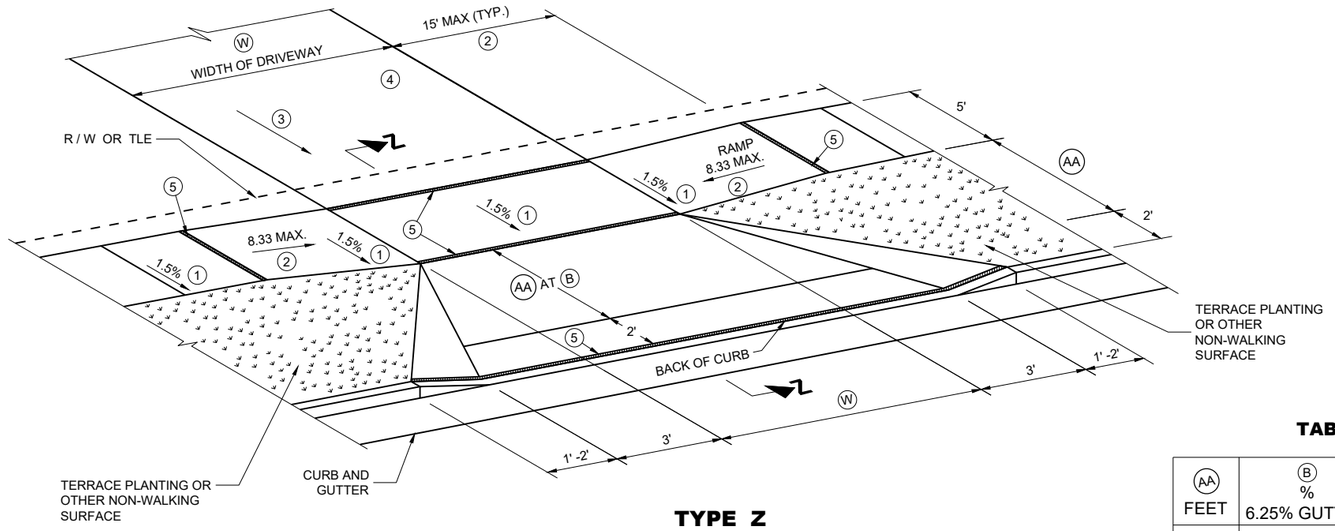
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

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TYPE Z

SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

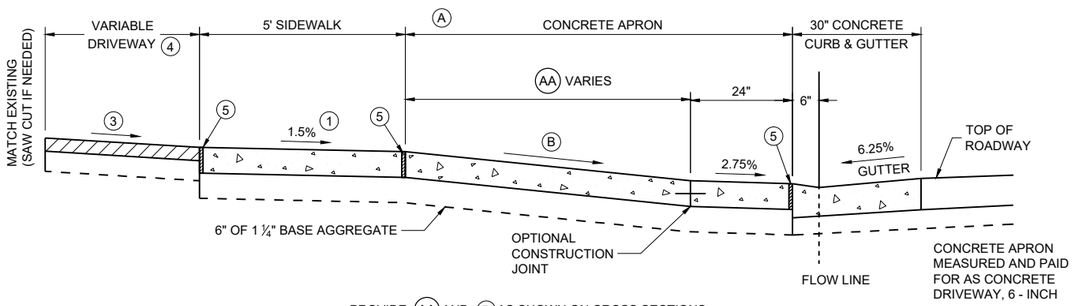
(4) DRIVEWAY TYPES
* 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE 2-INCH
* TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE 6-INCH BASE
* AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

(5) 1/2" EXPANSION JOINT FILLER.

TABLE Z

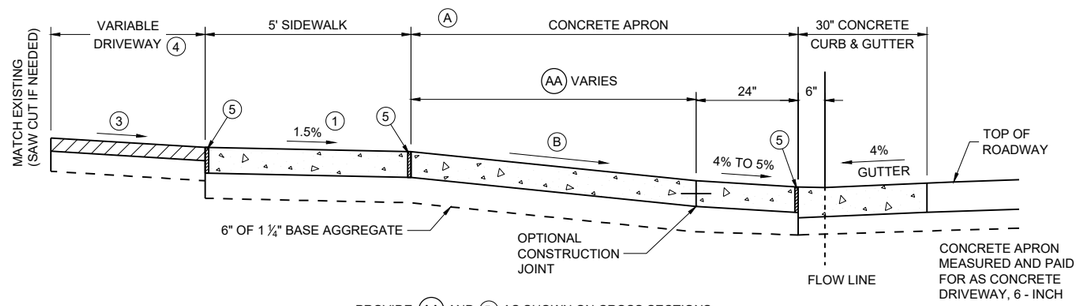
(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

(W) : DRIVEWAY WIDTHS (MEASURED AT ROW LINE)
~ COMMERCIAL & INDUSTRIAL 16' MIN. - 35' MAX.
~ RESIDENTIAL & AGRICULTURAL (NONCOMMERCIAL) 16' MIN. - 24' MAX.



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

6.25% GUTTER SLOPE



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

4% GUTTER SLOPE

NOTE: SIDEWALK 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.

SECTION Z - Z

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER

(URBAN AND SUBURBAN)

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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GENERAL NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

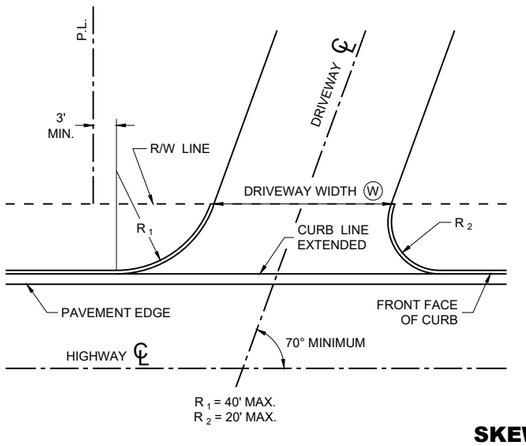
THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

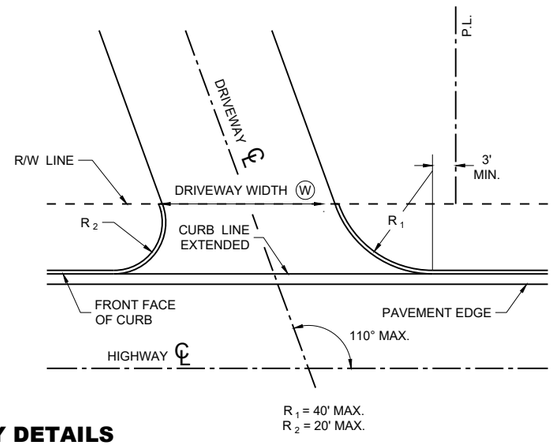
ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

DETECTABLE WARNING FIELDS ARE REQUIRED WHEN A PEDESTRIAN CIRCULATION ROUTE CROSSES A DRIVEWAY THAT IS TRAFFIC SIGNAL, STOP, OR YIELD CONTROLLED.

DETECTABLE WARNING FIELDS TO BE 2' DEEP AND EXTEND THE WIDTH OF THE PEDESTRIAN CIRCULATION ROUTE.

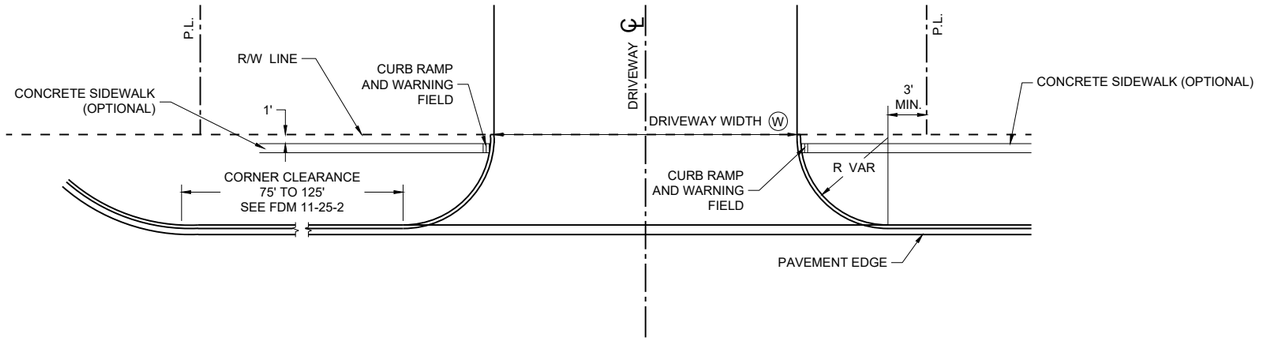




SKEWED DRIVEWAY DETAILS
(COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN

(W) : DRIVEWAY WIDTHS (MEASURED AT ROW LINE)
- ~ COMMERCIAL & INDUSTRIAL 16' MIN. - 35' MAX.
- ~ RESIDENTIAL & AGRICULTURAL (NONCOMMERCIAL) 16' MIN. - 24' MAX.



DRIVEWAY LOCATION AND SPACING

DRIVEWAY CENTERLINE MAY BE A COMMON PROPERTY LINE FOR SHARED DRIVEWAYS

DRIVEWAYS WITH CURB AND GUTTER RETURNS

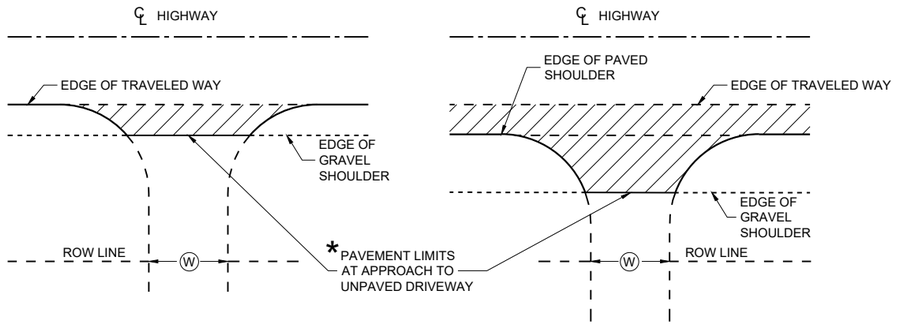
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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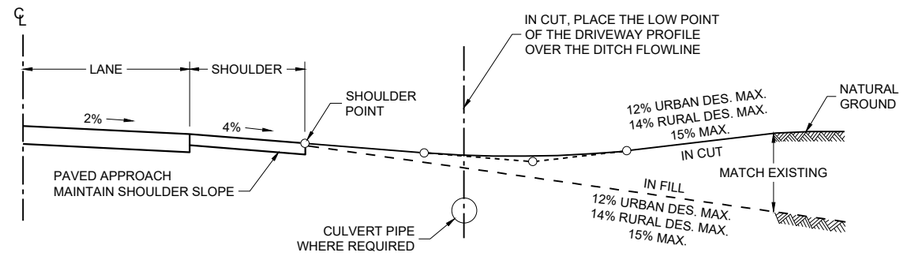


* WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

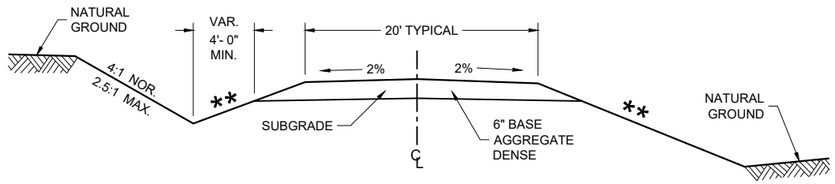
PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL (NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

Ⓦ : DRIVEWAY WIDTHS (MEASURED AT ROW LINE)
~ COMMERCIAL & INDUSTRIAL 16' MIN. - 35' MAX.
~ RESIDENTIAL & AGRICULTURAL (NONCOMMERCIAL) 16' MIN. - 24' MAX.

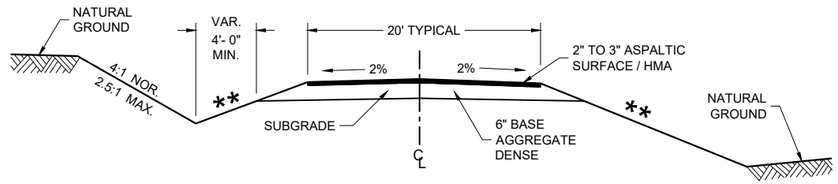


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

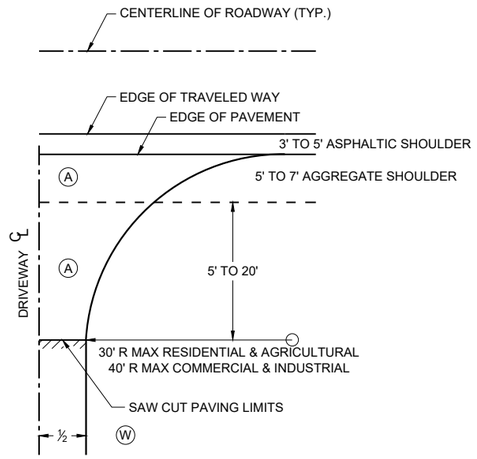
DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

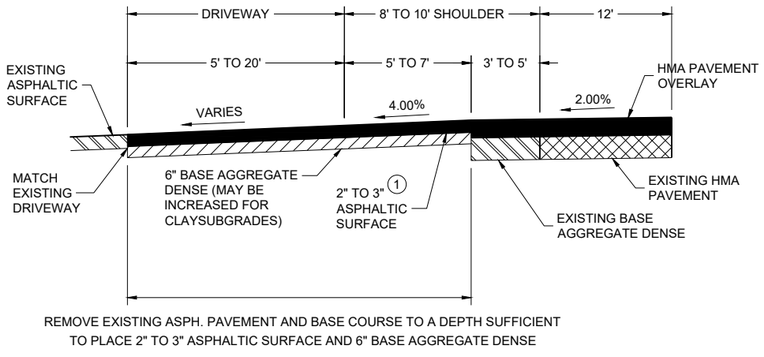
GENERAL NOTES

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



PLAN VIEW

HALF SECTION



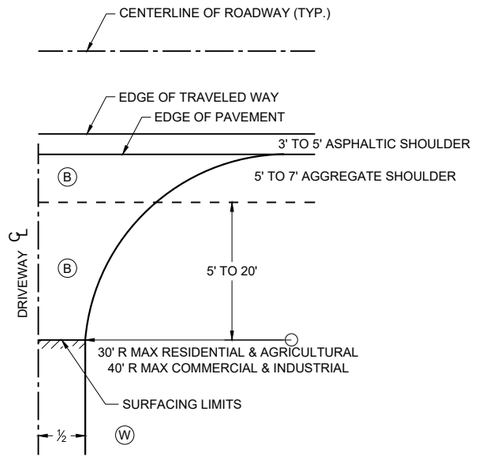
PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE RESURFACING PROJECTS

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

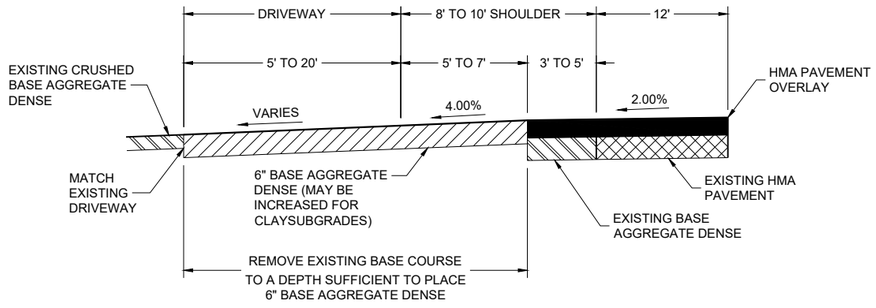
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 1/4" (TON)

(W) : DRIVEWAY WIDTHS (MEASURED AT ROW LINE)
- ~ COMMERCIAL & INDUSTRIAL 16' MIN. - 35' MAX.
- ~ RESIDENTIAL & AGRICULTURAL (NONCOMMERCIAL) 16' MIN. - 24' MAX.



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE 6" BASE AGGREGATE DENSE RESURFACING PROJECTS

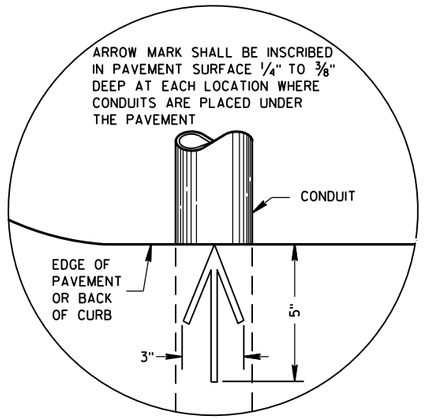
DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 (DATE)
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

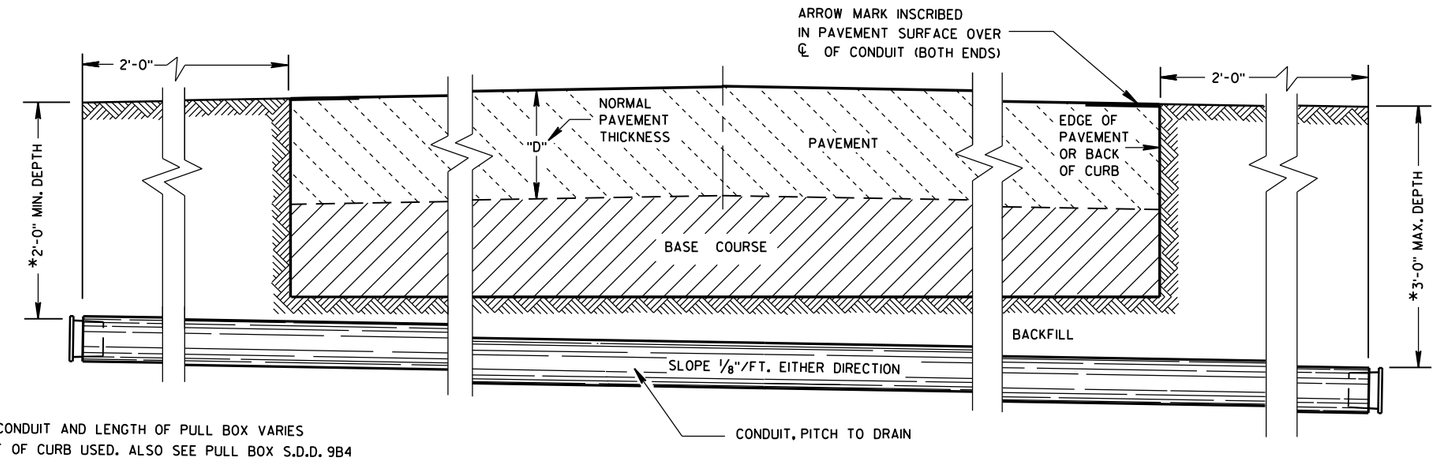
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PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

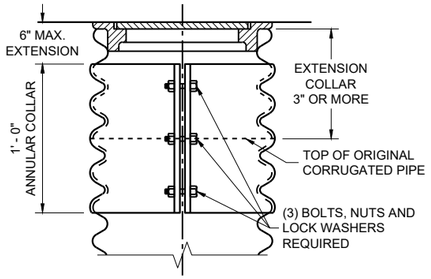
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

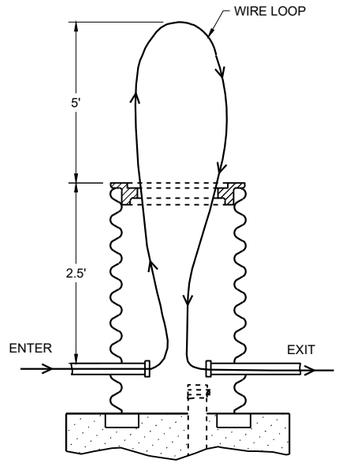
APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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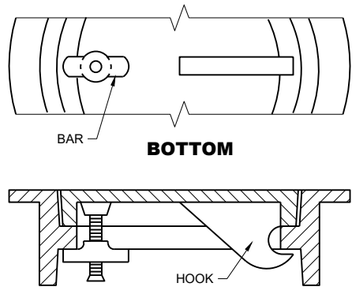
S.D.D. 9 B 2-10



CORRUGATED PIPE EXTENDER



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



BOTTOM

SECTION

ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

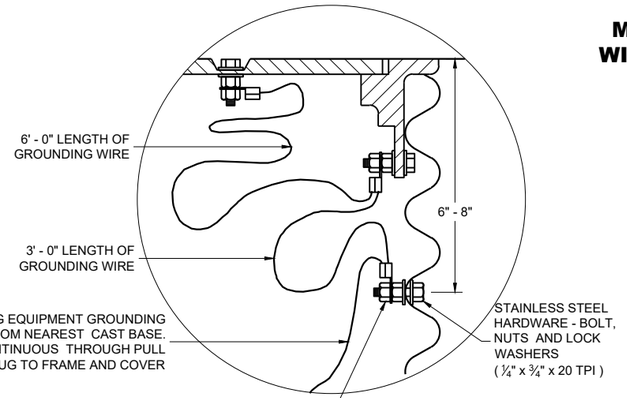
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

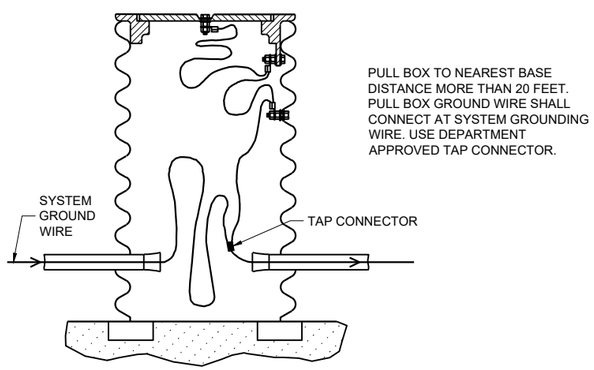
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

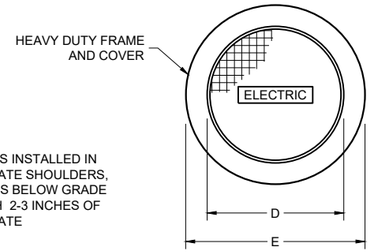
WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



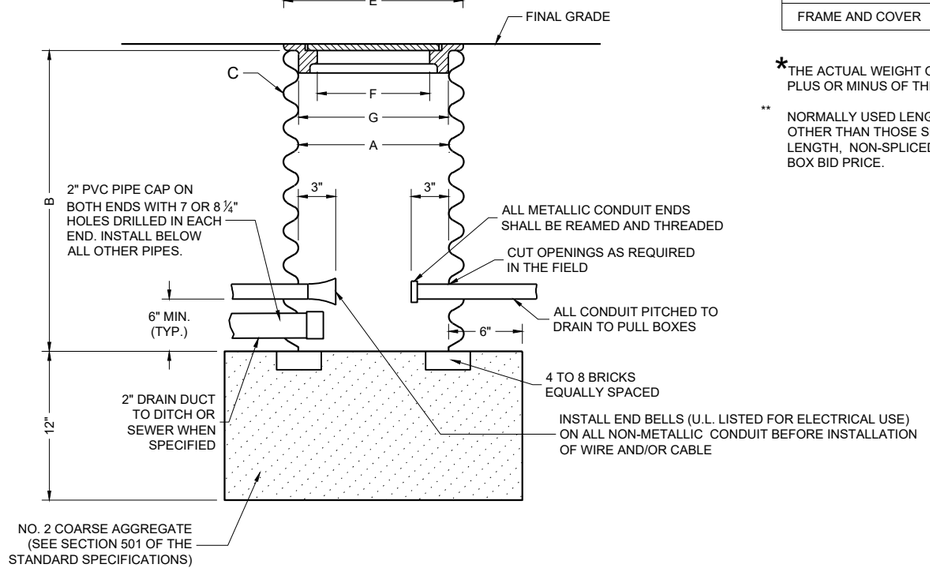
EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE



PULL BOX

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 ¼	10 ¼	10 ¼	16 ¼	16 ¼	16 ¼	22 ¼	22 ¼	22 ¼
FRAME	E	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½
FRAME	F	8 ½	8 ½	8 ½	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½
FRAME	G	11 ½	11 ½	11 ½	17 ½	17 ½	17 ½	23 ½	23 ½	23 ½
WEIGHT IN POUNDS*										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

*THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

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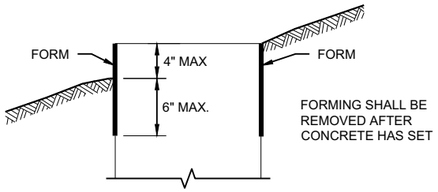
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FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



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.

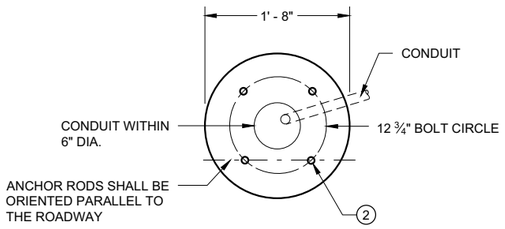
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

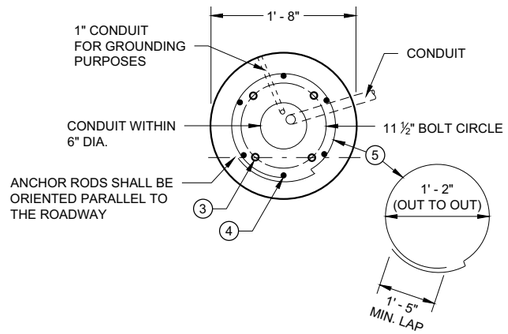
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

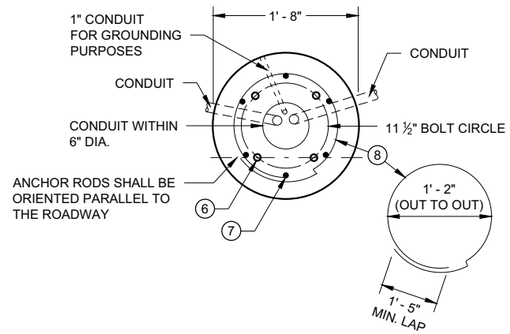
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

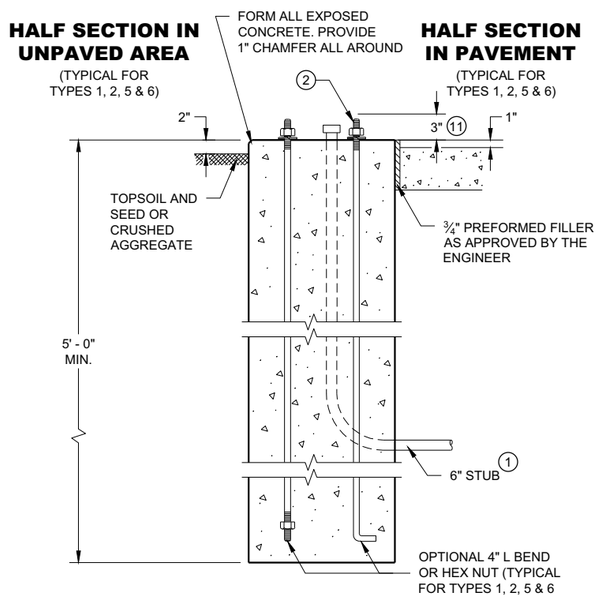
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

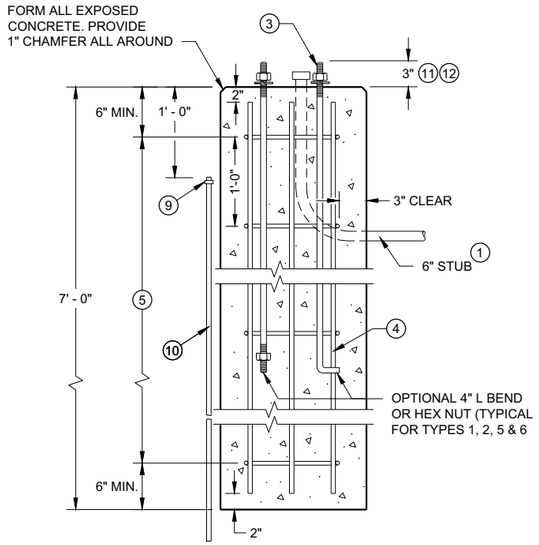




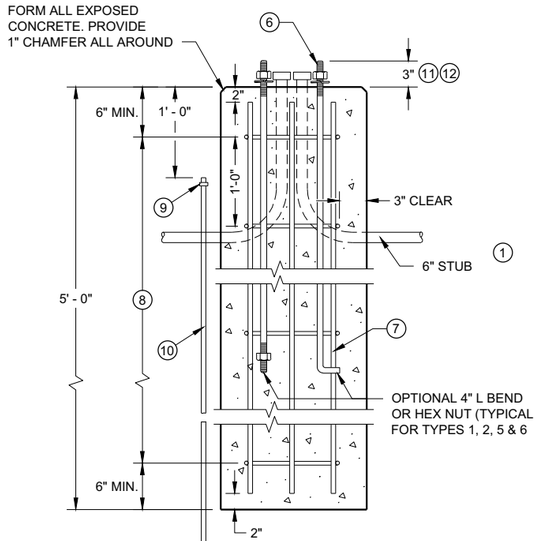




TYPE 1



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 568

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.

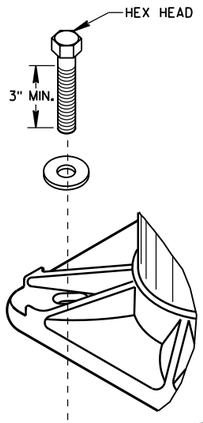
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

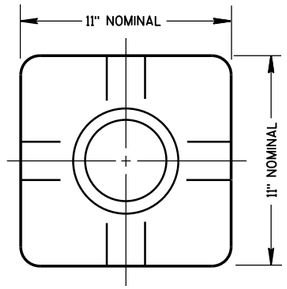
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

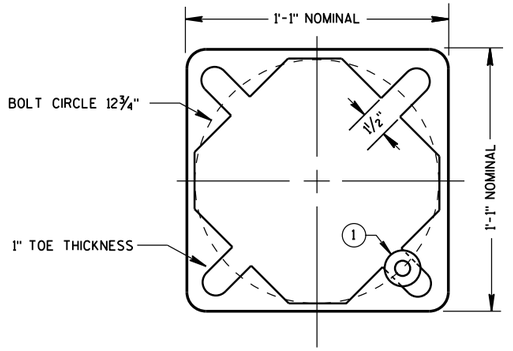
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

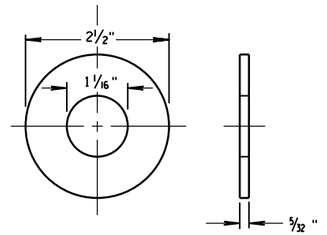




TOP VIEW
(PEDESTAL BASE)

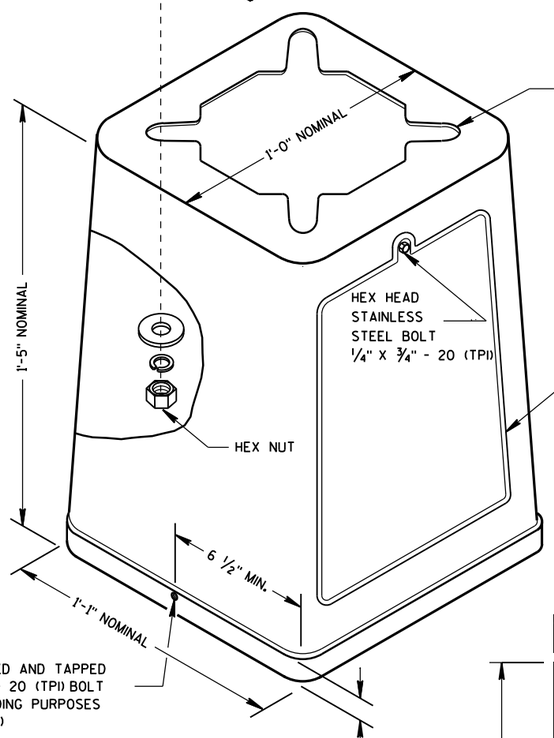


BOTTOM VIEW
(PEDESTAL BASE)

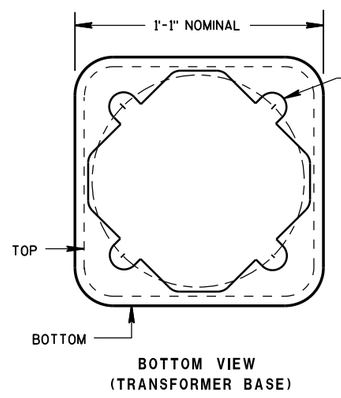


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

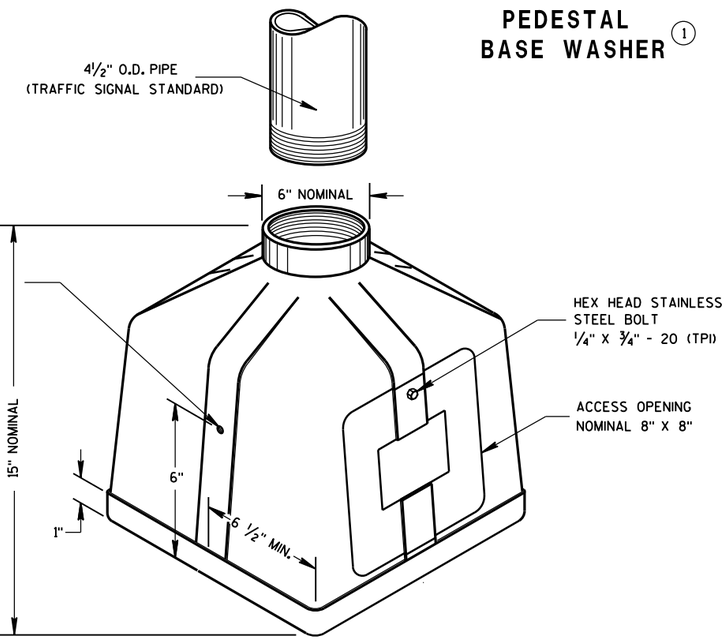
PEDESTAL BASE WASHER (1)



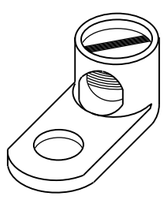
ISOMETRIC VIEW



BOTTOM VIEW
(TRANSFORMER BASE)

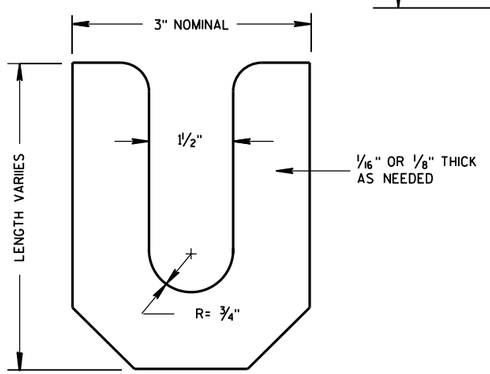


ISOMETRIC VIEW
PEDESTAL BASE



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

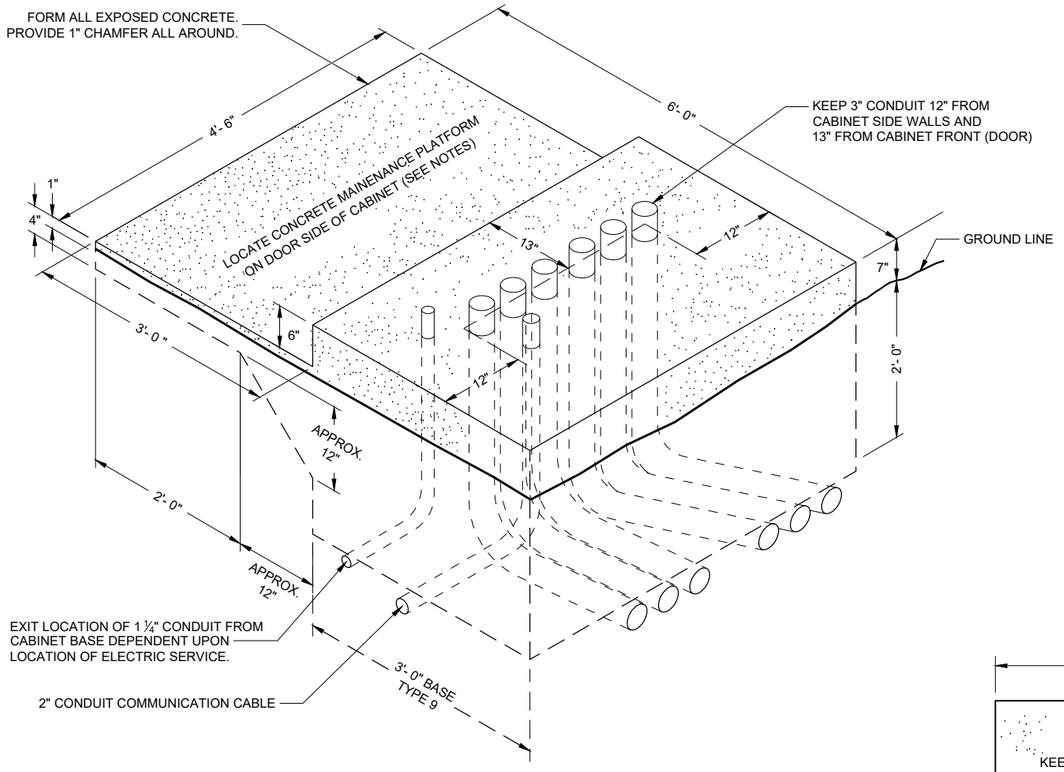
6

S.D.D. 9 C 3-4

6

S.D.D. 9 C 3-4

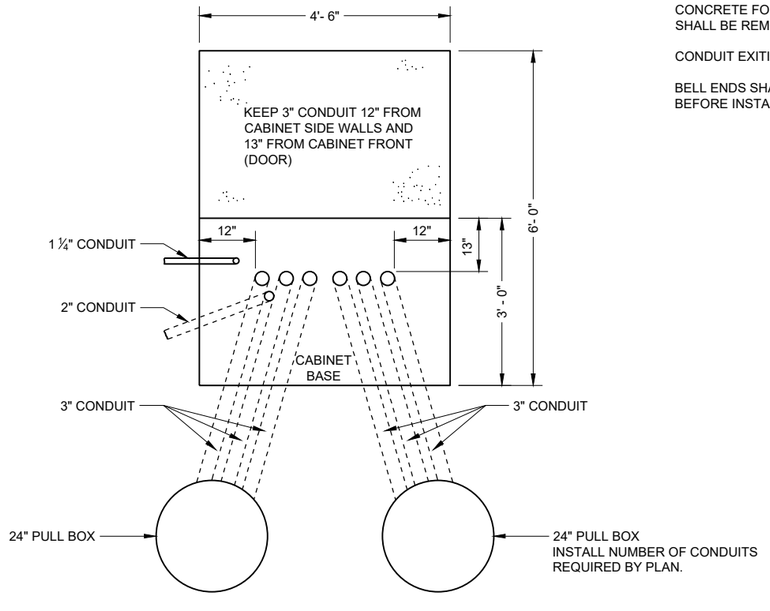
SDD 09C06 Concrete Control Cabinet Base, Type 9, Special



ISOMETRIC VIEW

TYPE 9 SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9 SPECIAL

GENERAL NOTES

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

INSTALL FOUR INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE (SIX 3") SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 570

FHWA

6
SDD 09C06 - 07

GENERAL NOTES

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

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

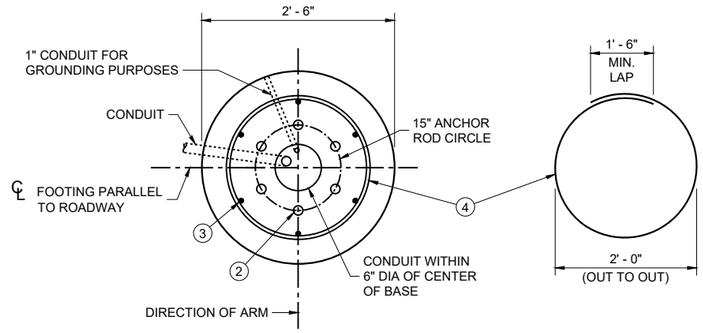
(2) (6) 1 ½ DIA. X 4' - 4" ANCHOR RODS

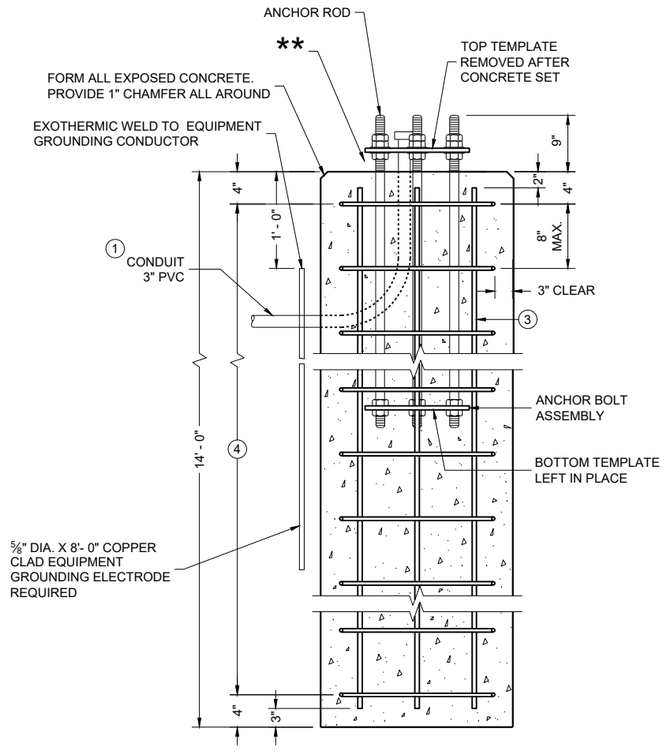
(3) (6) NO. 6 X 13' - 7" BAR STEEL REINFORCEMENT.

(4) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE .....fy = 55,000 p.s.i.
WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.

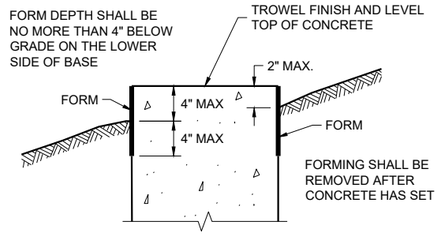
QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122



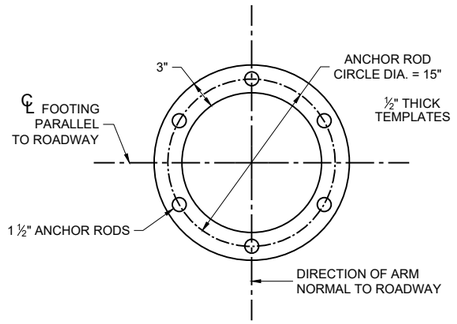


CONCRETE BASE, TYPE 10 SPECIAL OVER HEIGHT (FOR OVER HEIGHT TYPE 9 & OVER HEIGHT TYPE 10 SPECIAL POLES ONLY)

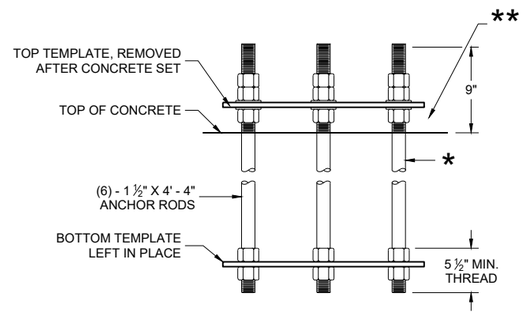
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE SDD 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

** RODENT PROTECTION REQUIRED

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Ahmet Demerbilek — WIND LOADED STRUCTURES PROGRAM LEADER
FHWA

6
SDD 09C11-11

GENERAL NOTES

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

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, 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.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4 ½ INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC 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 NONMETALLIC 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 NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR 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 CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL 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 THE WRITTEN APPROVAL OF THE ENGINEER.

(2) (6) 1 ¾" DIA. X 7' - 2" ANCHOR RODS

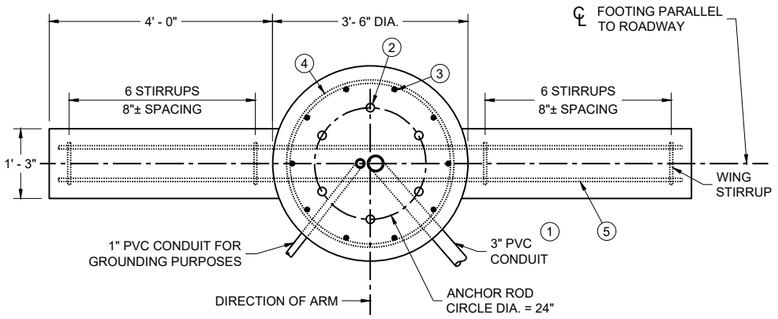
(3) (10) NO. 6 X 14' - 1" BAR STEEL VERTICAL REINFORCEMENT.

(4) (22) NO. 5 X 11'- 0" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

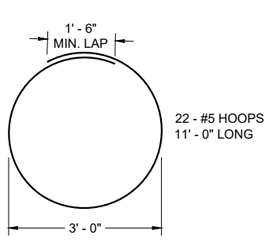
(5) (10) NO. 5 X 11' - 0" BAR STEEL HORIZONTAL REINFORCEMENT

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.

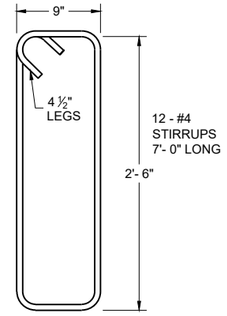
** RODENT PROTECTION REQUIRED



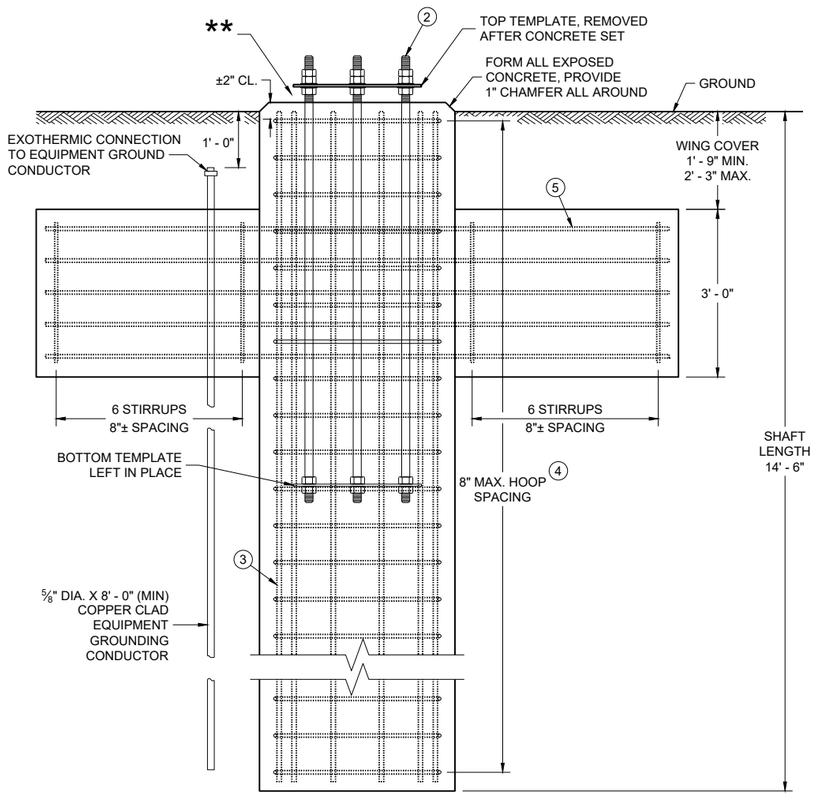
PLAN VIEW



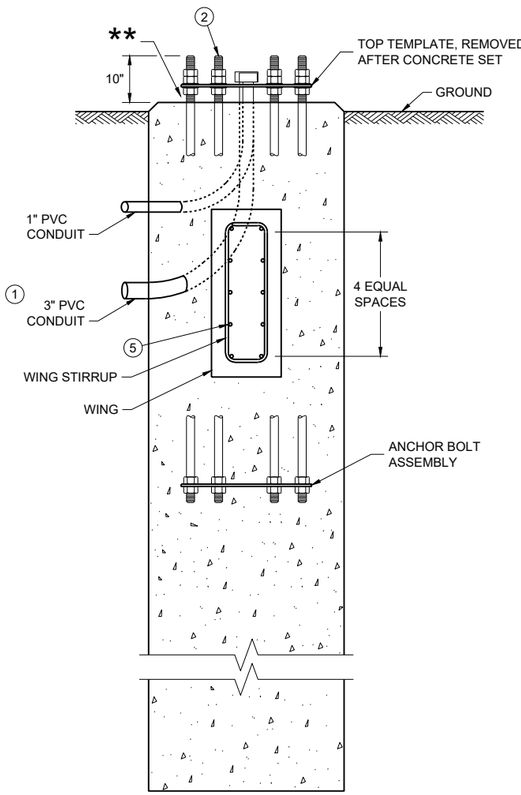
HOOP DETAIL



WING STIRRUP DETAIL



ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)

CONCRETE BASE, TYPE 13

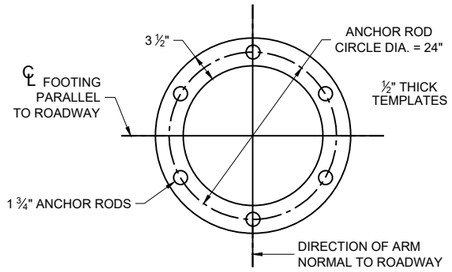
(FOR TYPE 12, TYPE 13 AND OVER HEIGHT (OH) POLES)

CONCRETE = 6.3 CUBIC YARD
H.S. REINFORCEMENT = 635 LBS.

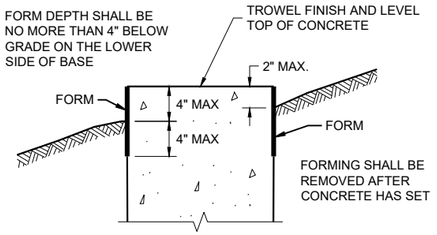
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION

CONCRETE BASE TYPE 13

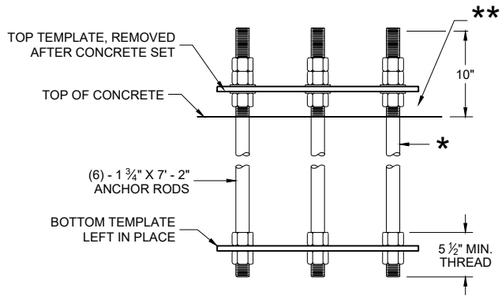
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



TOP AND BOTTOM TEMPLATE



FORMING DETAIL



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 11" 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.

** RODENT PROTECTION REQUIRED

CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2025
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

6

SDD 09C12-10b

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.

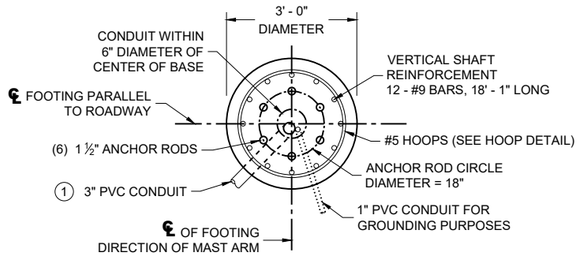
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

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.

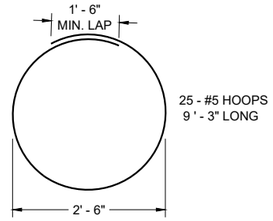
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(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.

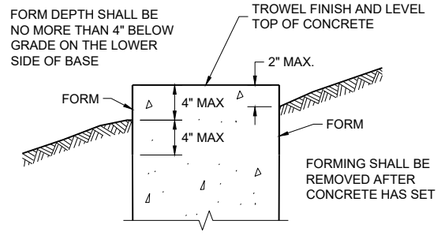
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55.....fy = 55,000 p.s.i.
(IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



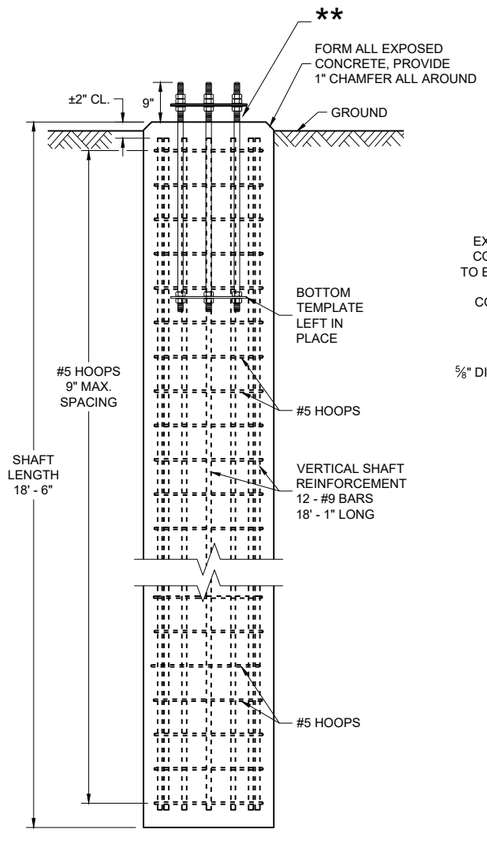
PLAN VIEW



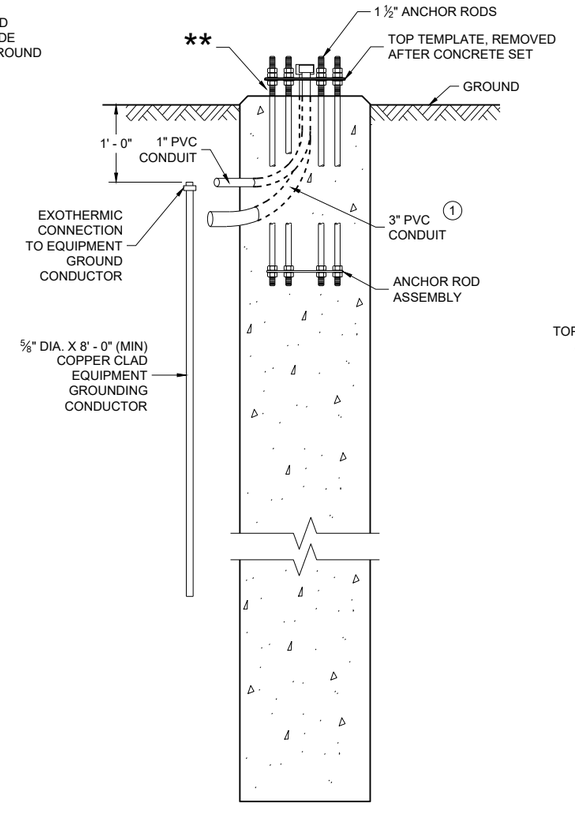
HOOP DETAIL



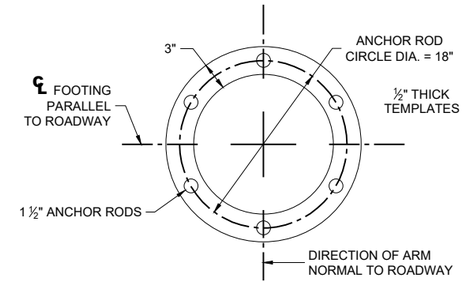
FORMING DETAIL



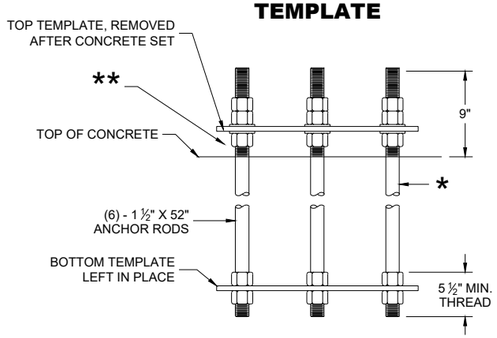
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



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.

** RODENT PROTECTION REQUIRED

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES AND OVER HEIGHT (OH) POLES)

CONCRETE = 4.8 CUBIC YARD
H.S. REINFORCEMENT = 979 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
November 2025 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTURES PROGRAM LEADER

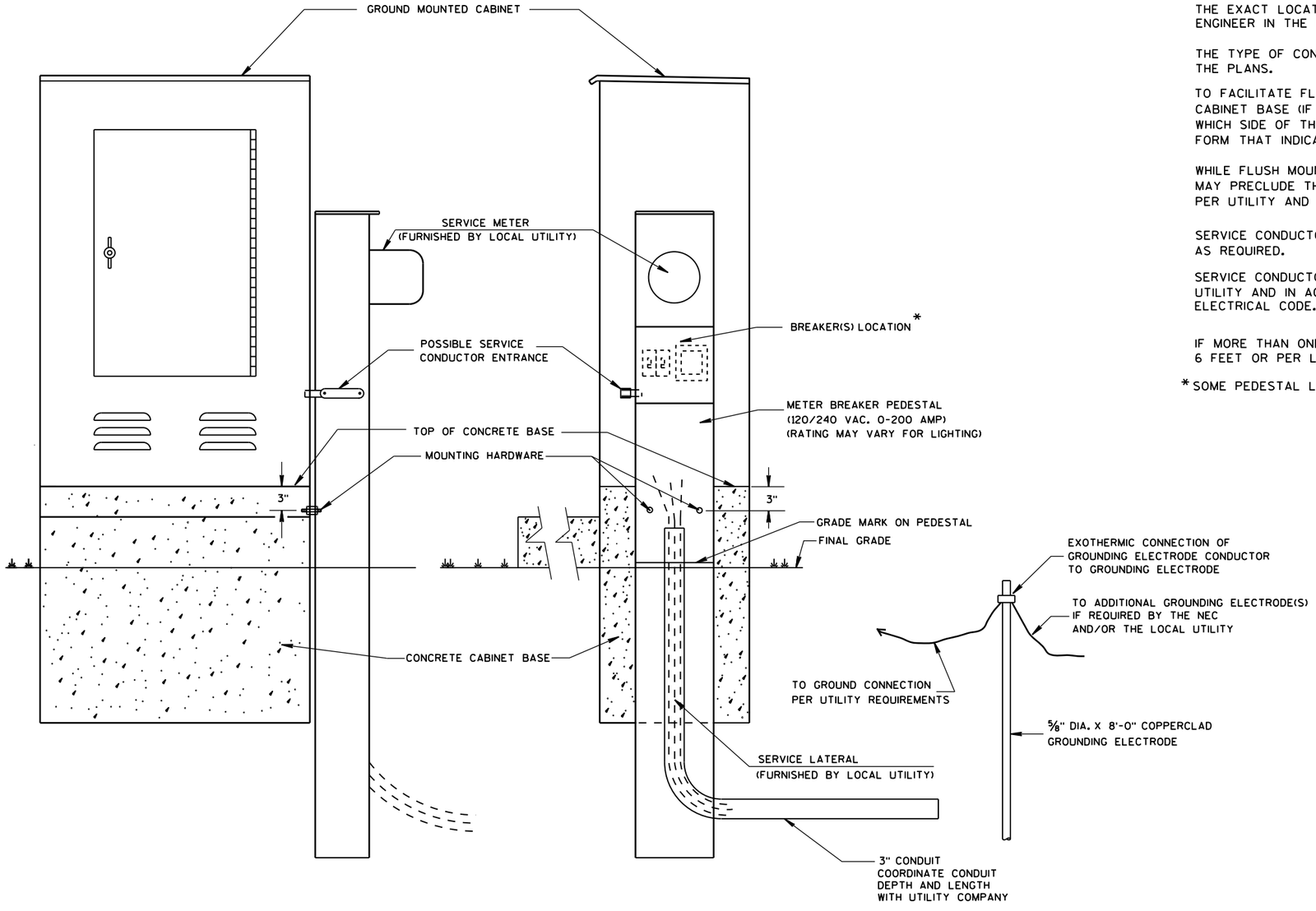
FHWA

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SDD 09C15-03

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SDD 09C15-03



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

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S.D.D. 9 D 1-5

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S.D.D. 9 D 1-5

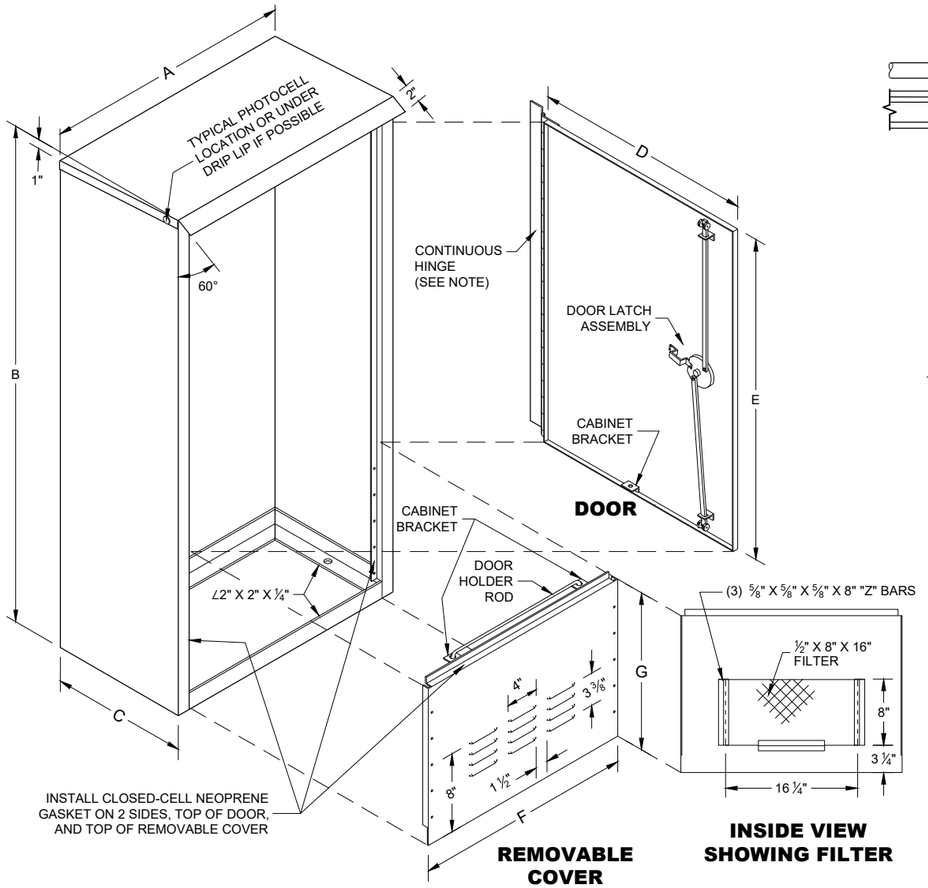
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

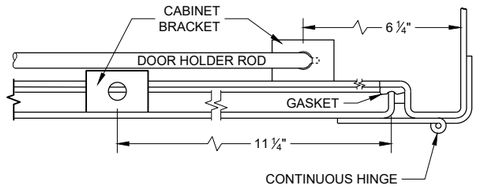
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

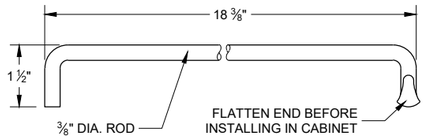
/S/ Ahmet Demirbilek
STATE ELECTRICAL 575

FHWA

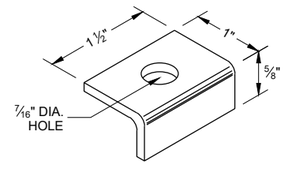




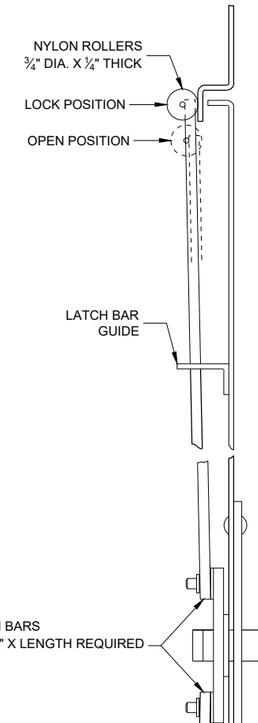
HINGE AND DOOR HOLDER



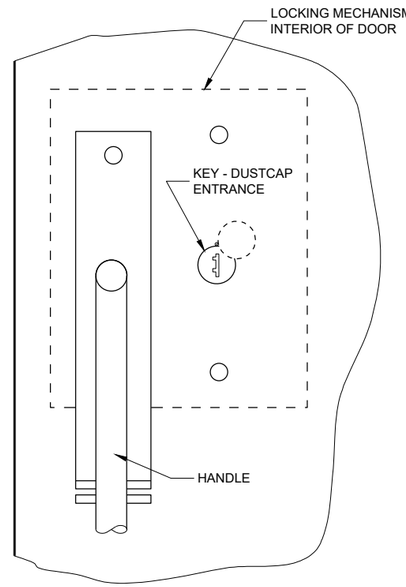
HOLDER ROD



CABINET BRACKET



SIDE VIEW



FRONT VIEW

LATCH ASSEMBLY

GENERAL NOTES

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

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

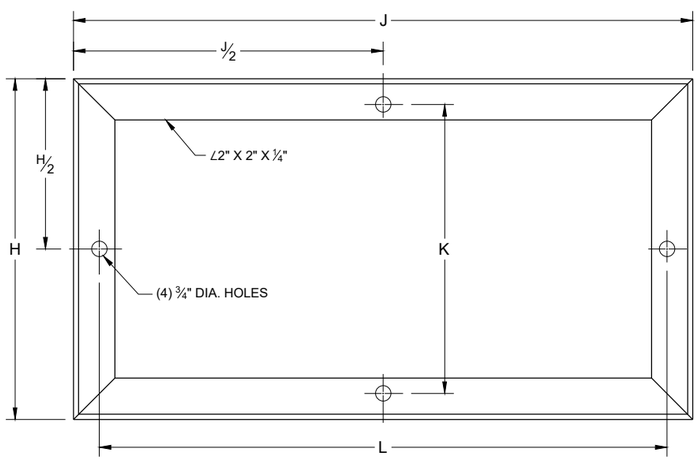
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH ¼" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH ¼" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH - NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

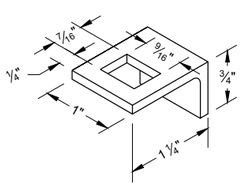
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 ½	16 ½	24
D	26 ½	34 ¾	33 ¾
E	38 ¾	38 ¾	38 ¾
F	26 ½	34 ¾	33 ¾
G	19	19	25
H	16 ½	16 ½	24
H/2	8 ¼	8 ¼	12
J	30	38	38
J/2	15	19	19
K	13 ¾	13 ¾	21 ¼
L	27 ½	35 ½	35 ½



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 576

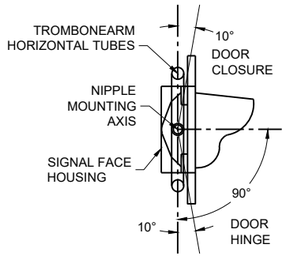
FHWA

SDD 09D02 - 03

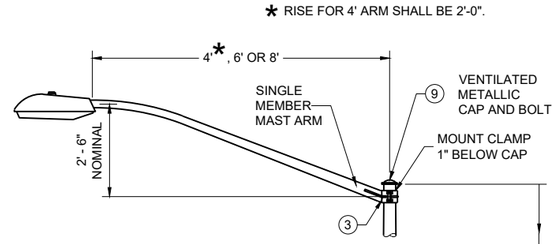
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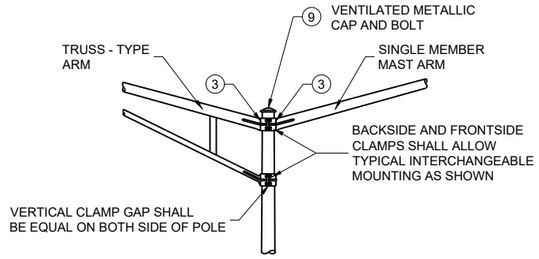
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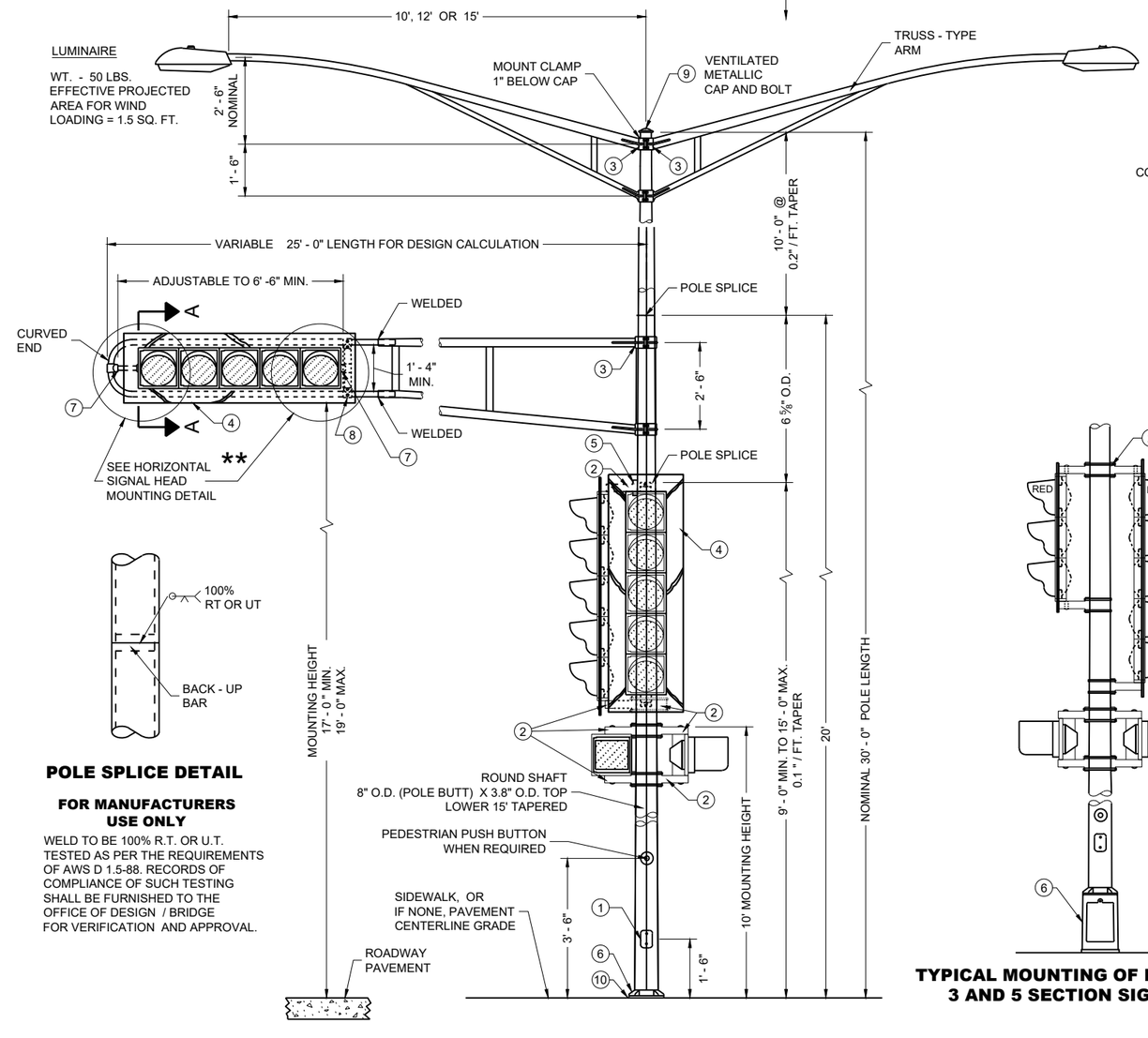


SECTION A-A





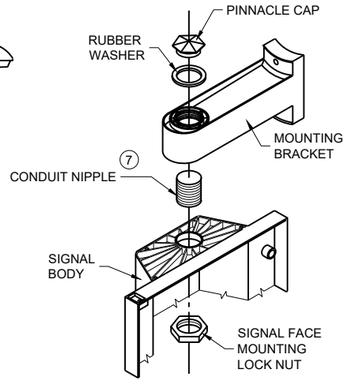
INTERCHANGEABLE MOUNTING DETAIL



POLE SPLICE DETAIL

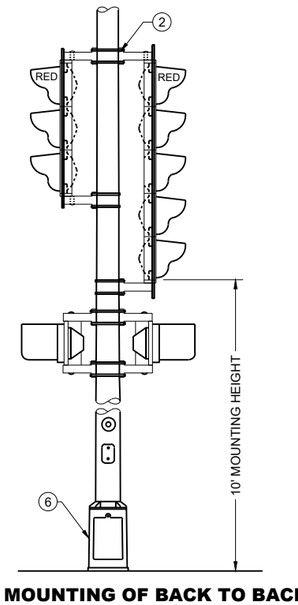
FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.

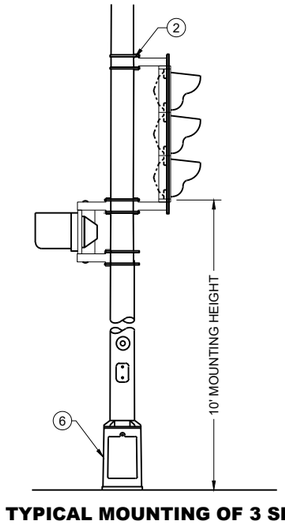


SIGNAL FACE MOUNTING DETAIL

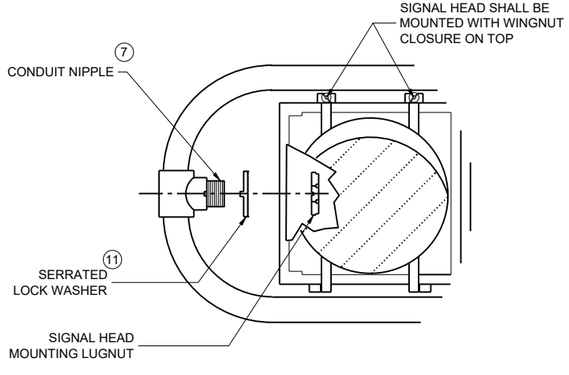
(BANDED)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD MOUNTING DETAIL **

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

GENERAL NOTES

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

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 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"X¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE. UNDER MAX LOADING, TYPE 3 POLE SHALL BE MOUNTED DIRECTLY TO ITS CONCRETE BASE.

(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼"X¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ¼"X¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT. ONE (1)

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

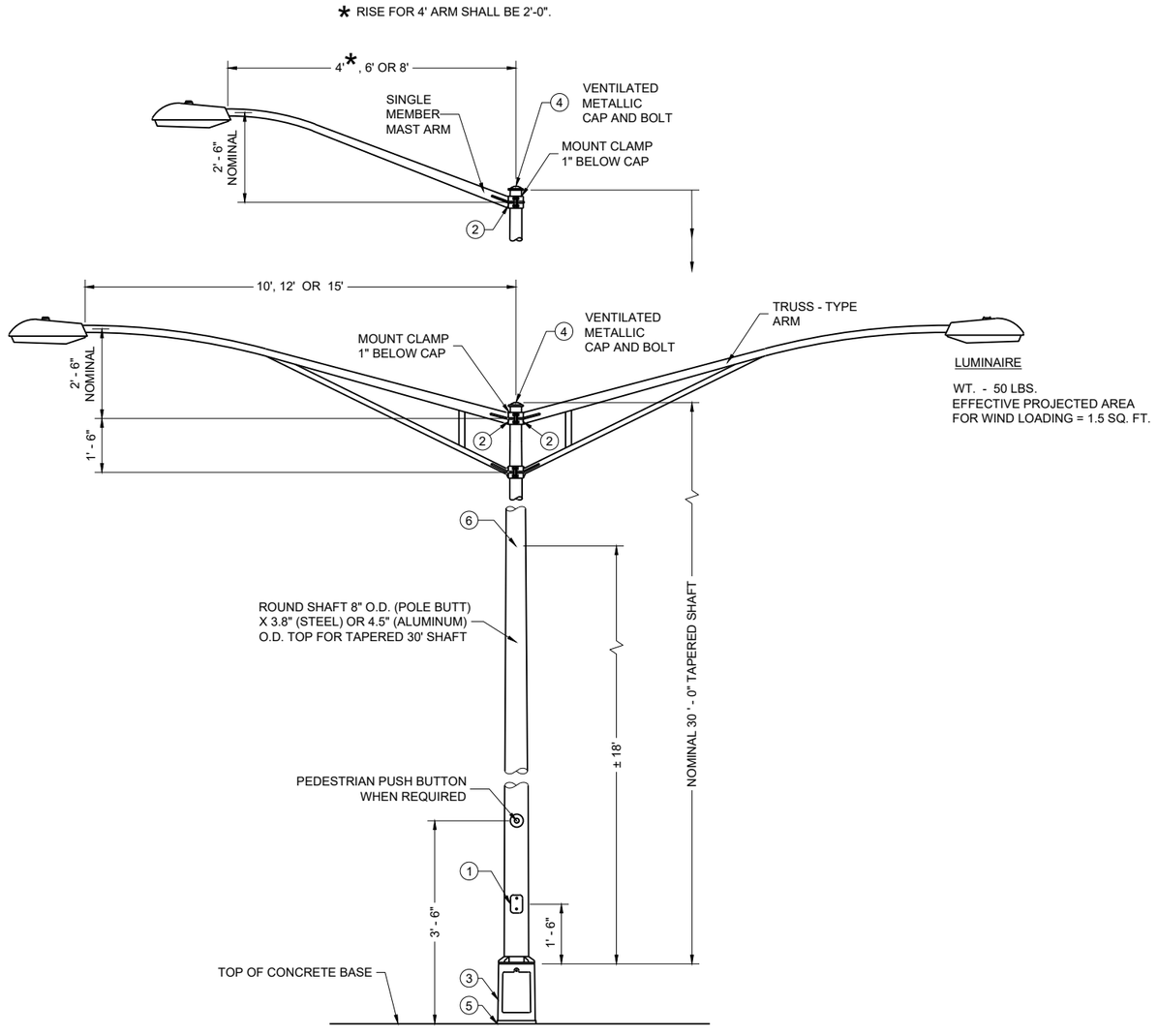
(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

TYPE 3 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS TYPE 3 (HEAVY DUTY)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 09E01-17b



TYPE 5 POLE MOUNTING CONFIGURATION

(MAXIMUM LOAD)

LIGHTING ONLY

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED AREA
FOR WIND LOADING = 1.5 SQ. FT.

GENERAL NOTES

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

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"X¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

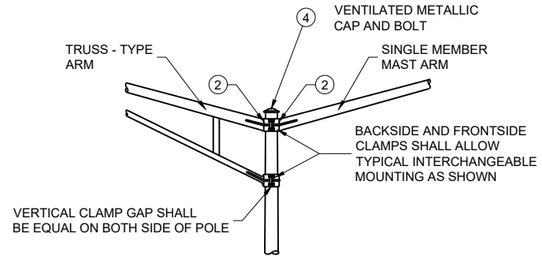
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ¼"X¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT. ONE (1)

(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
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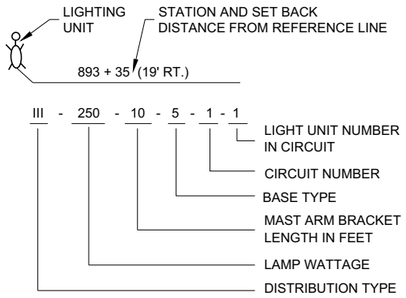
SDD 09E01-17d

GENERAL NOTES

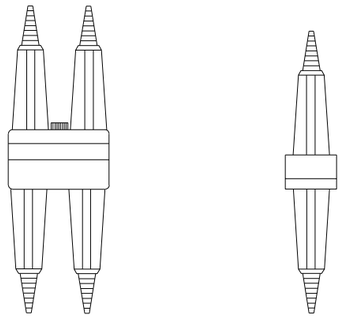
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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.

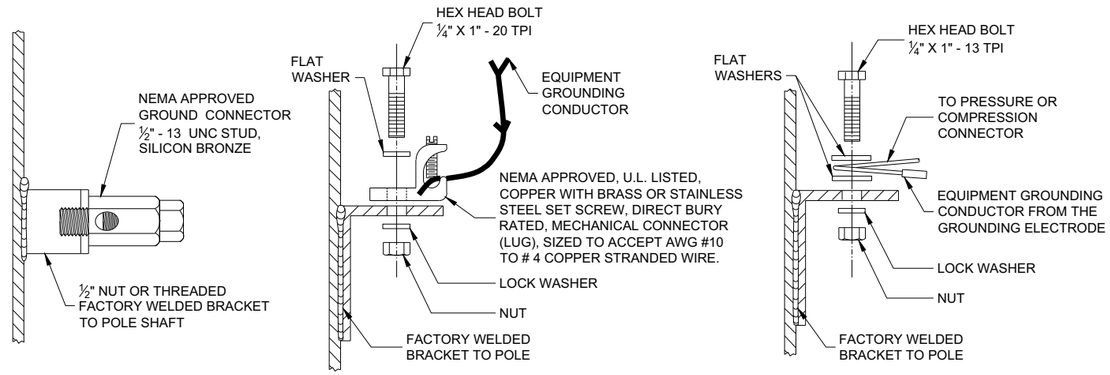


LIGHTING UNIT CODE
(TYPICAL)

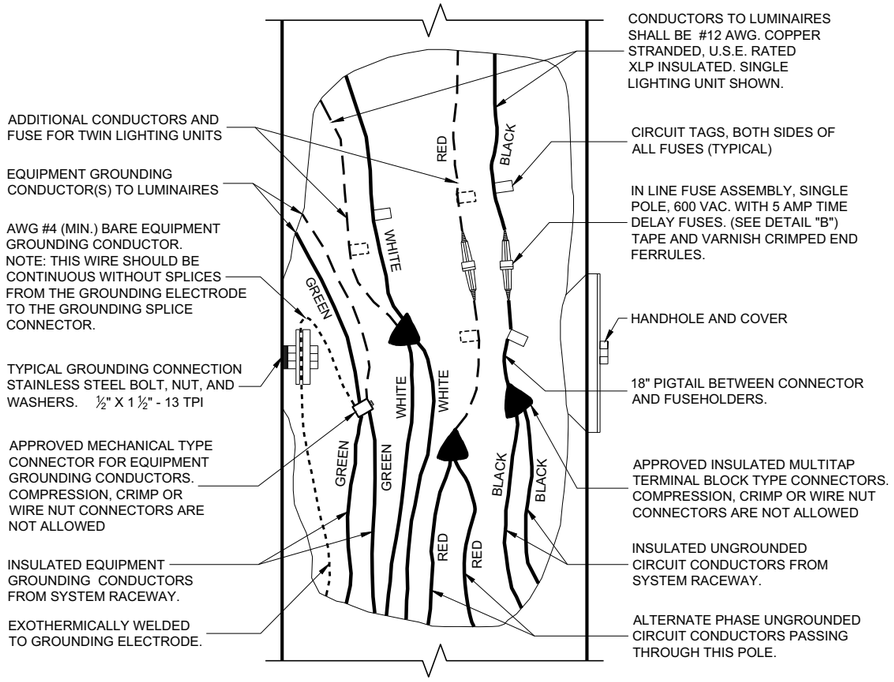


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

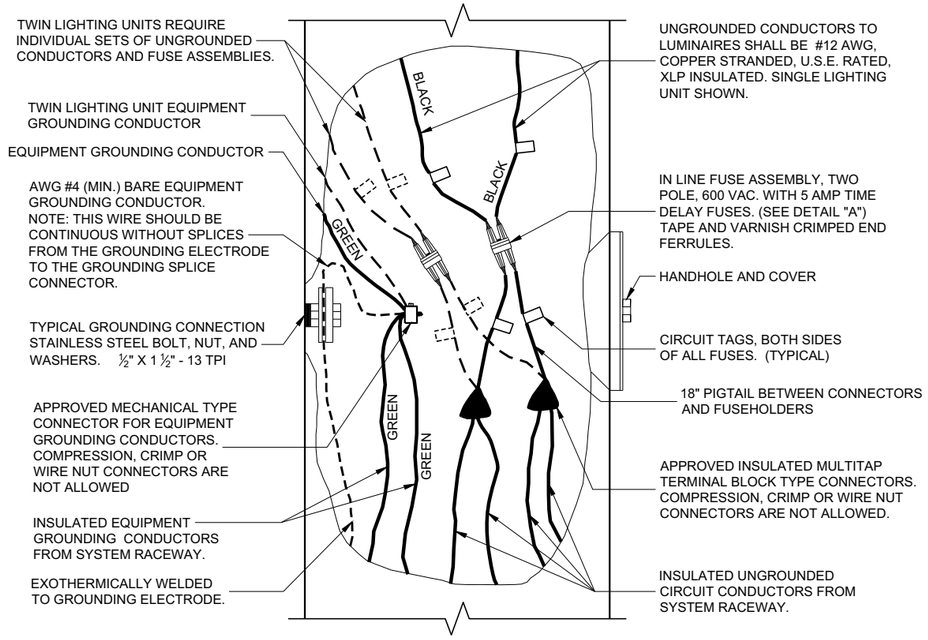
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



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 579

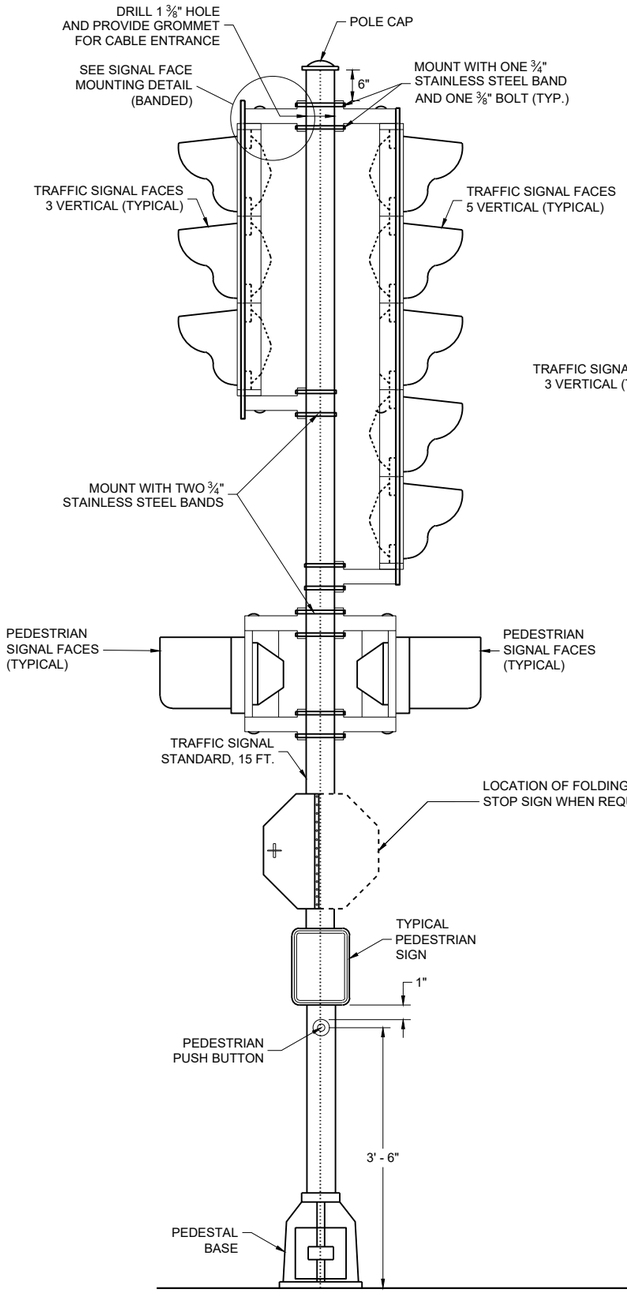
FHWA

6

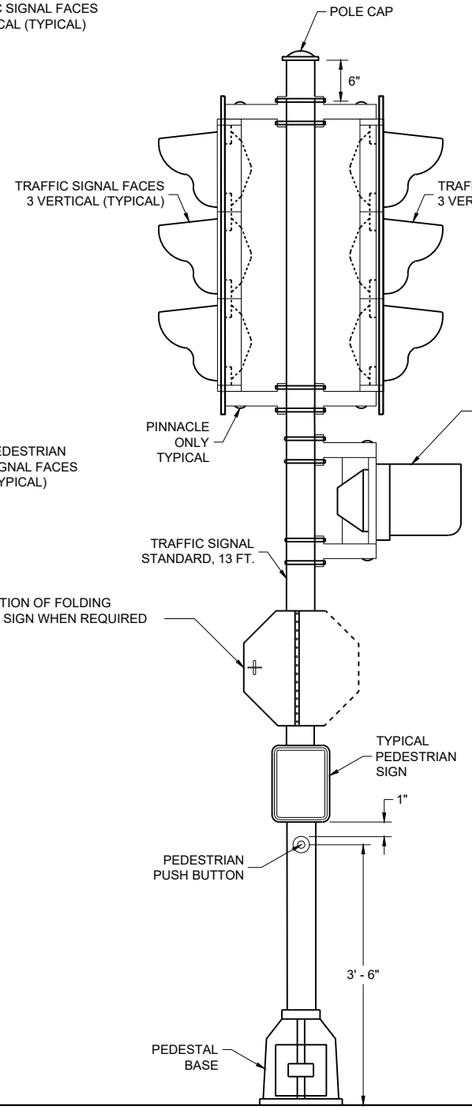
SDD 09E03 - 06

6

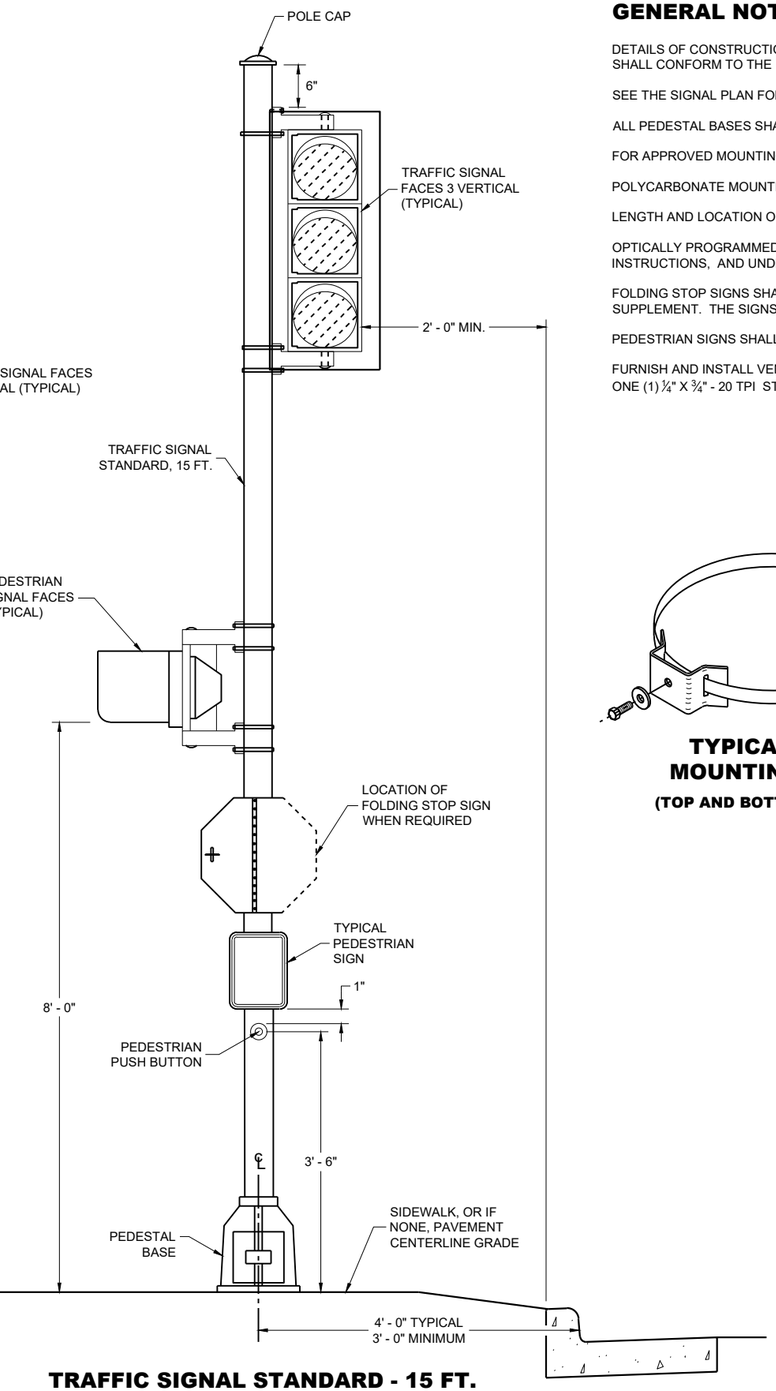
SDD 09E03 - 06



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.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

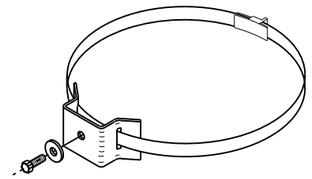
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

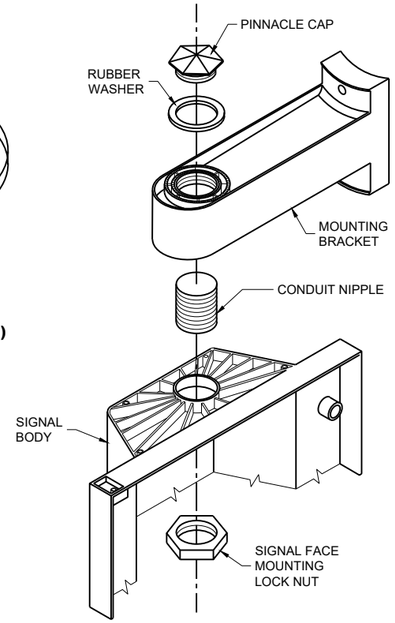
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL (BANDED)

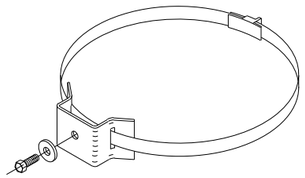
TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

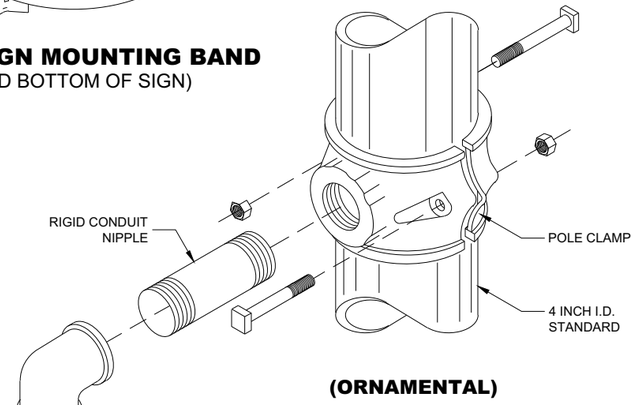
APPROVED
February 2026 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

FHWA

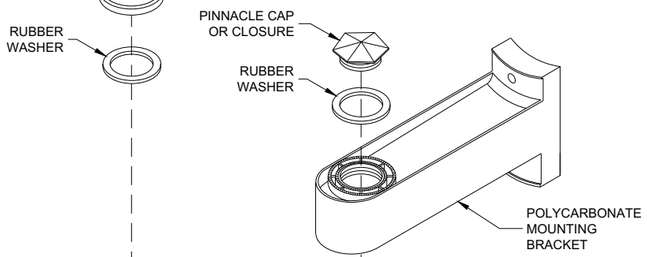
SDD 09E06-06
6



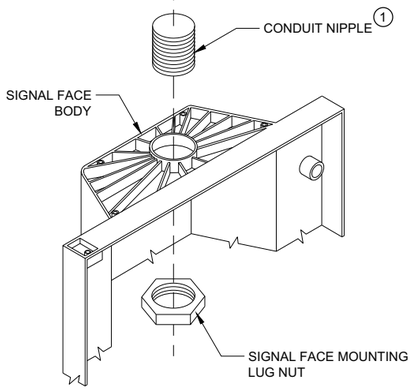
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



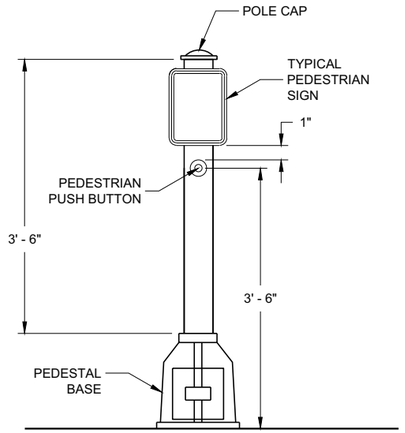
(ORNAMENTAL)



(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.

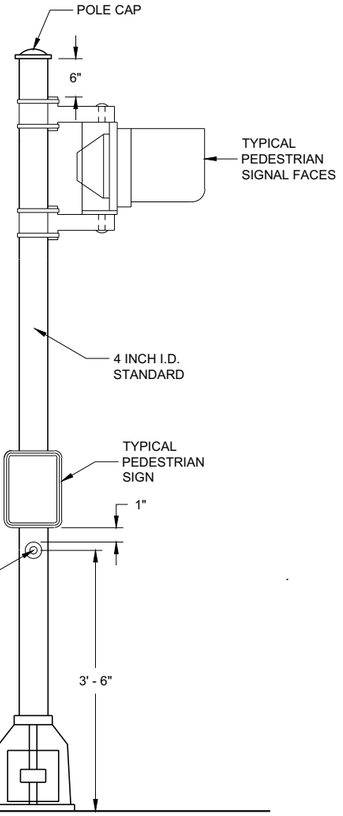
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

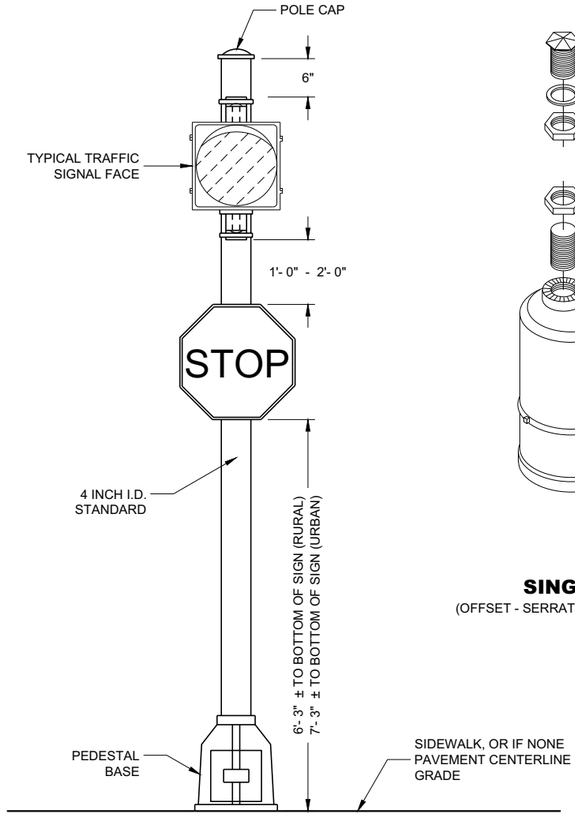
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

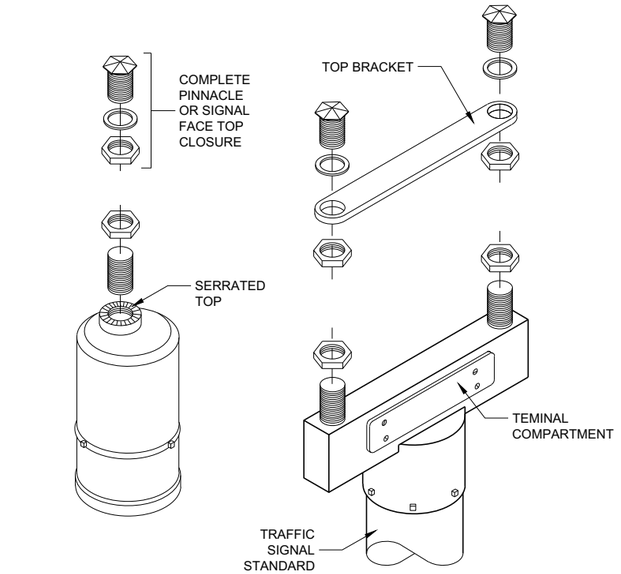
(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE 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

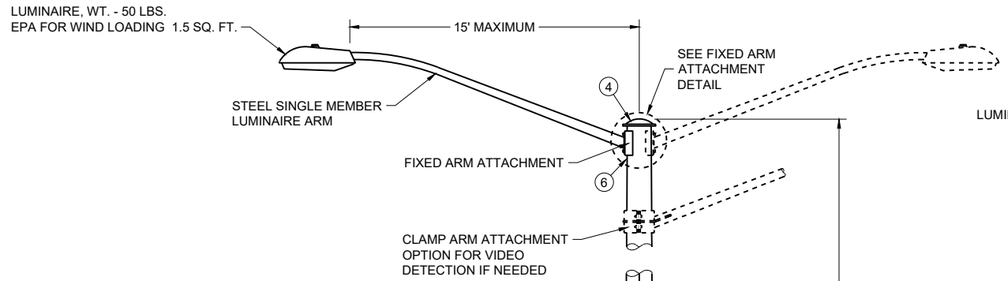
APPROVED
November 2018
DATE

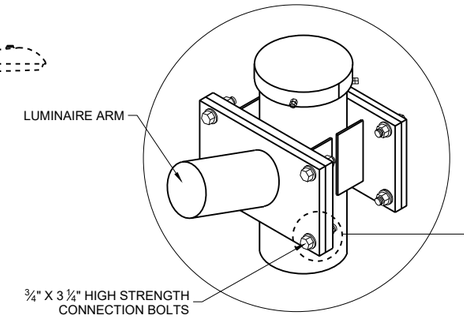
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 581

FHWA

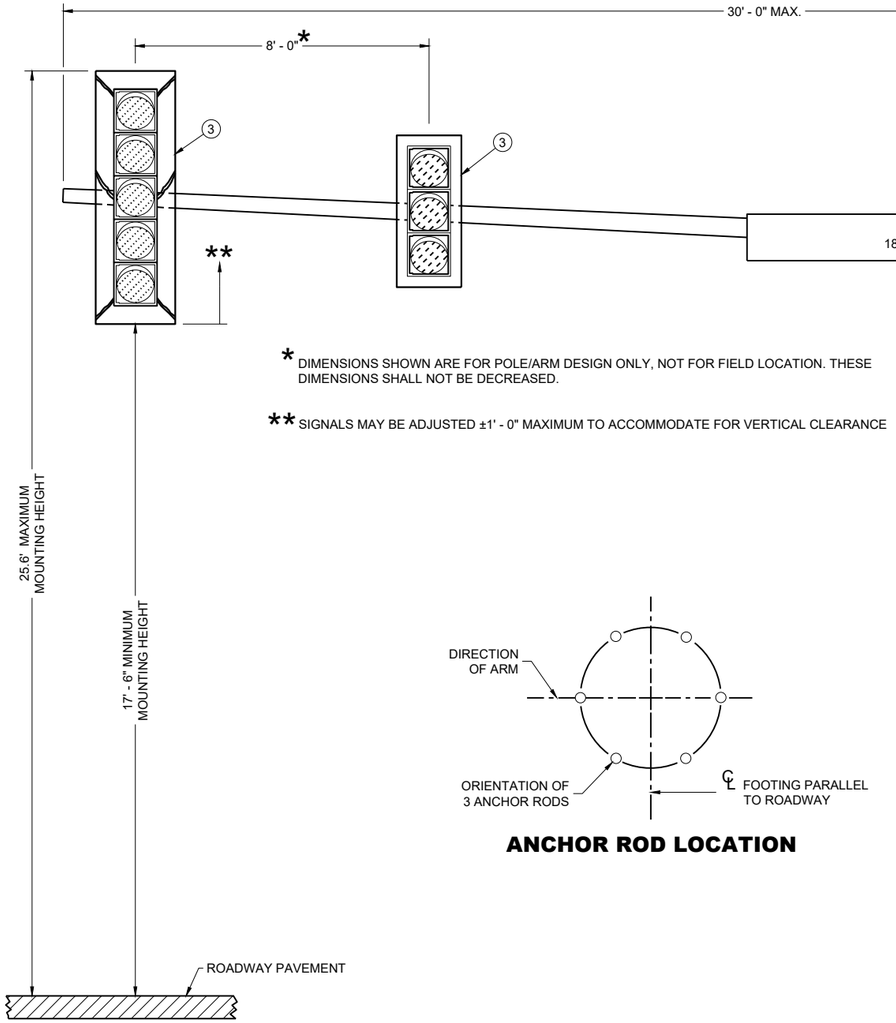
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SDD 09E07 - 06





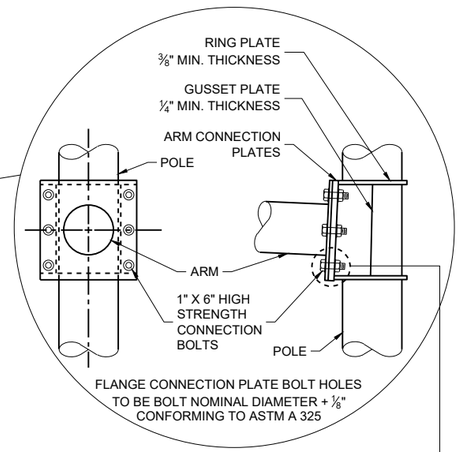
FIXED ARM ATTACHMENT DETAIL



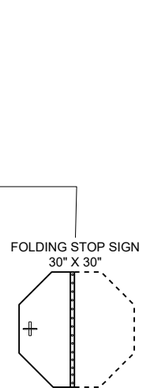
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

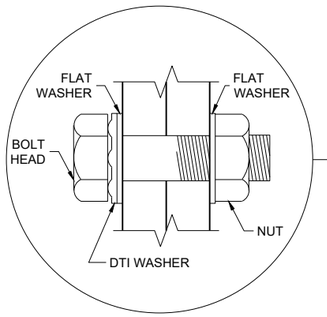
** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION



6 BOLT ARM CONNECTION DETAIL



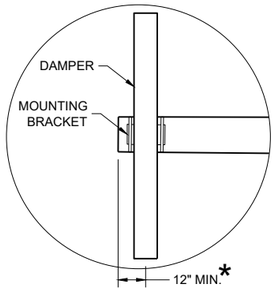


RECOMMENDED BOLT ASSEMBLY DETAIL

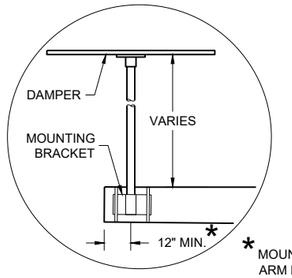
TYPE 10 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 POLE
15' - 30 MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

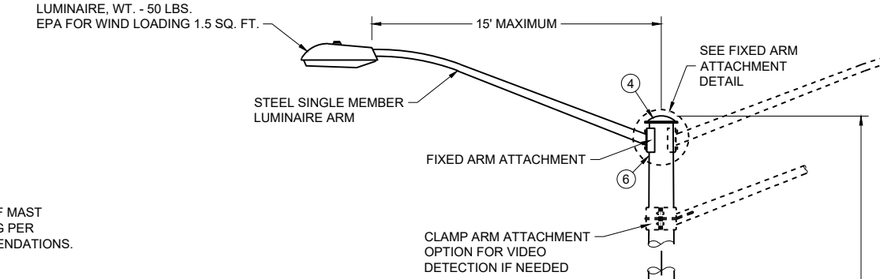


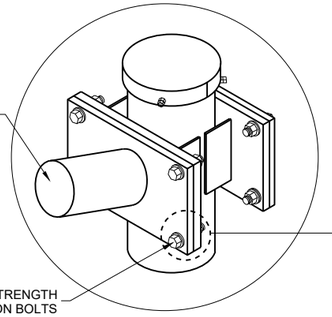
DUMBBELL VIBRATION DAMPER



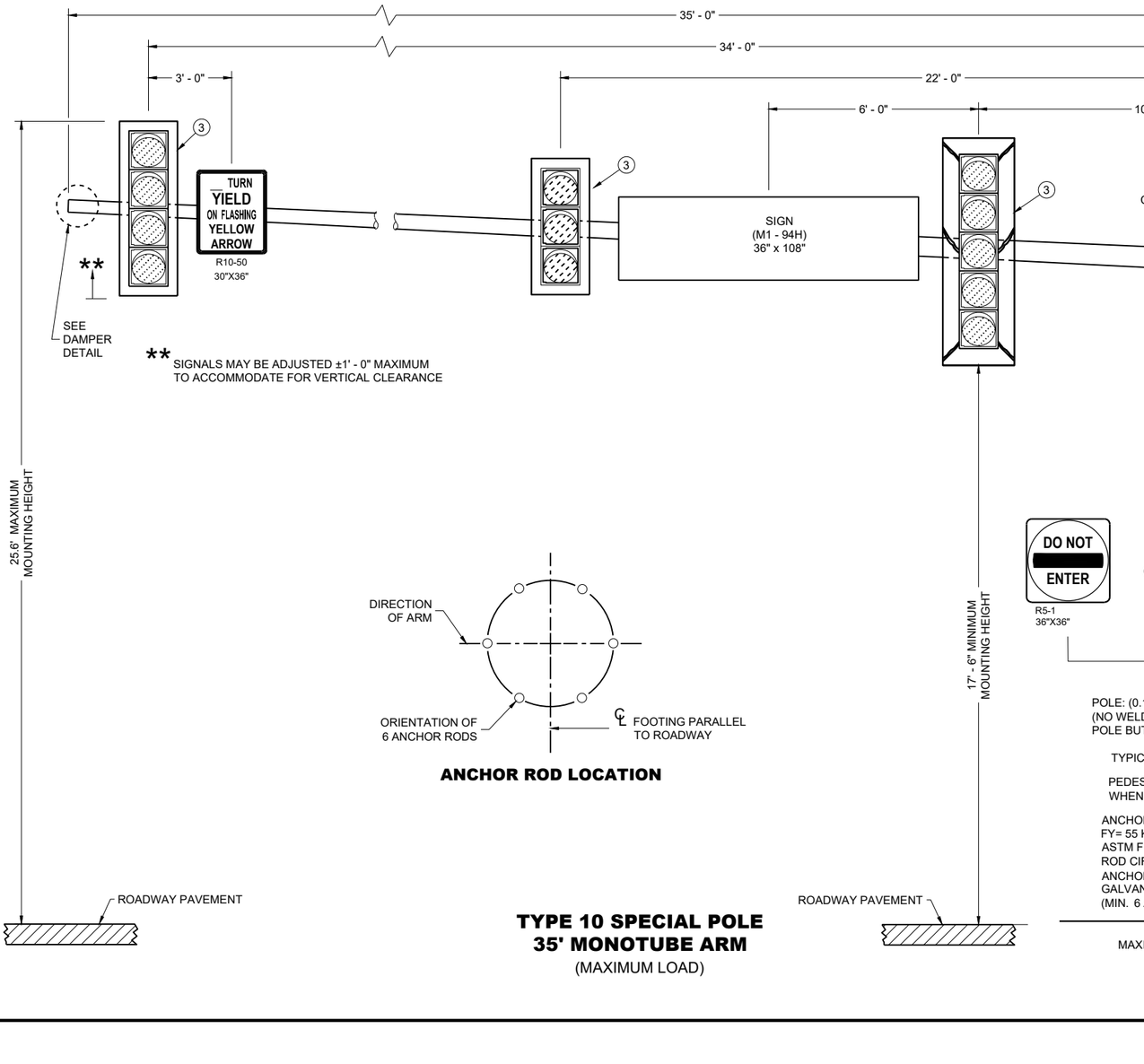
FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



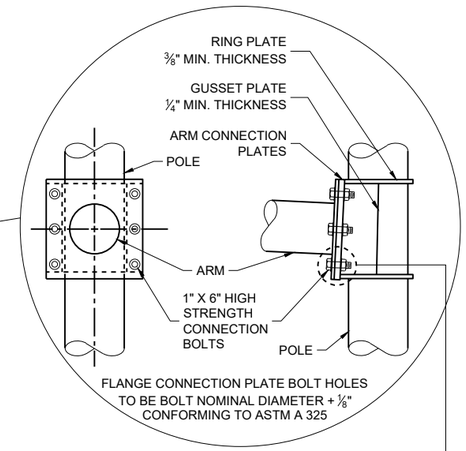


FIXED ARM ATTACHMENT DETAIL

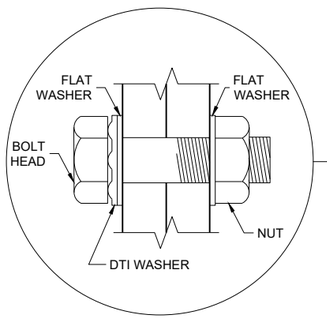


TYPE 10 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)

ANCHOR ROD LOCATION



6 BOLT ARM CONNECTION DETAIL

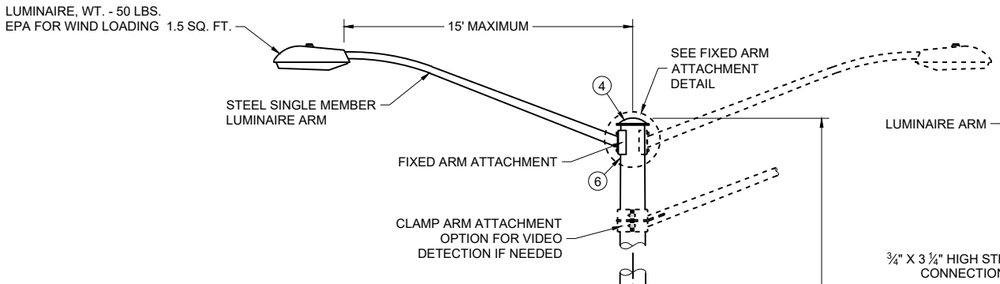


RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
35' MONOTUBE ARM

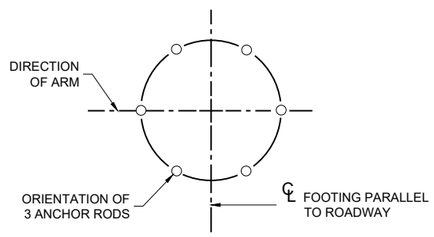
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 09E08-10f

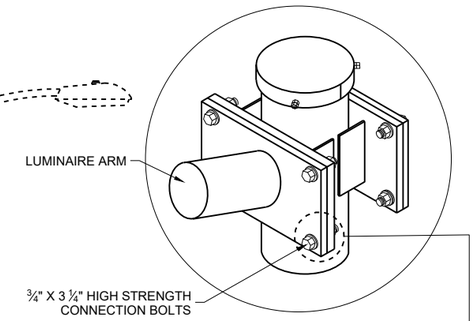


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

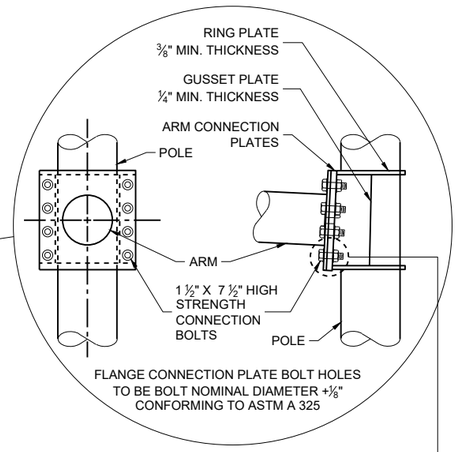
** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE



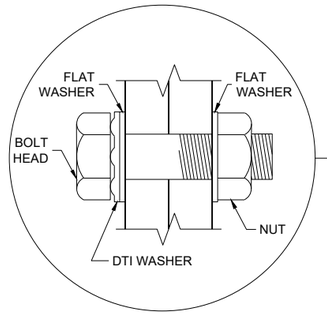
ANCHOR ROD LOCATION



FIXED ARM ATTACHMENT DETAIL



8 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 13 POLE
35' - 55' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 13 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 09E08-10j

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.

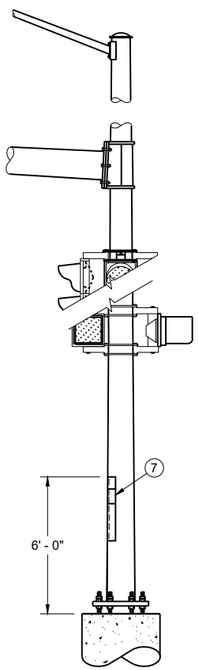
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

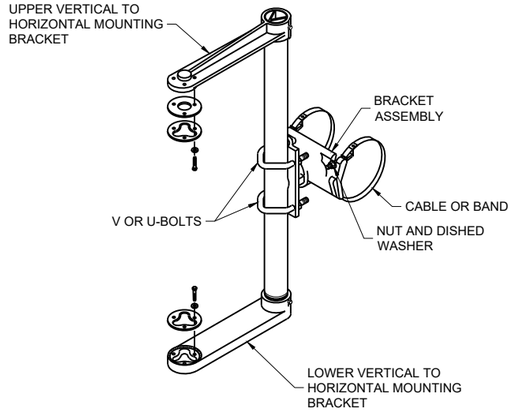
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

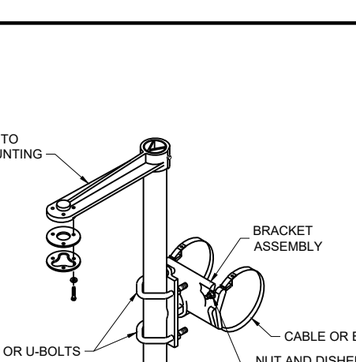
(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.



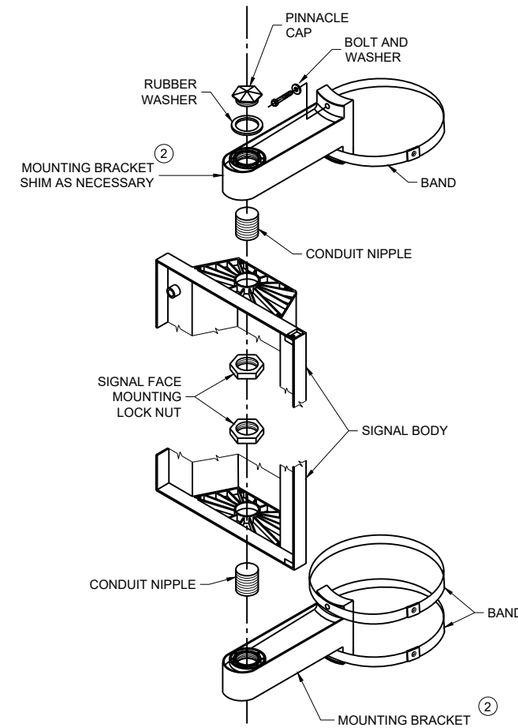
STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



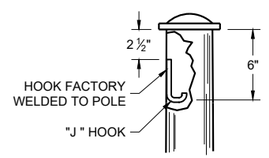
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM
(MOUNT PER MANFACTURER'S RECOMMENDATION)



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
February 2026
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

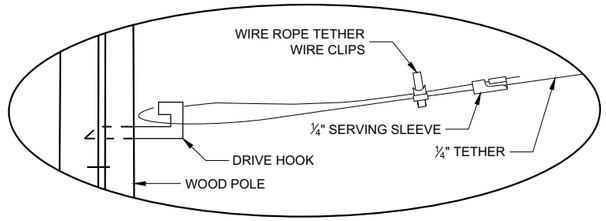
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SDD 09E08-10k

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SDD 09E08-10k

MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

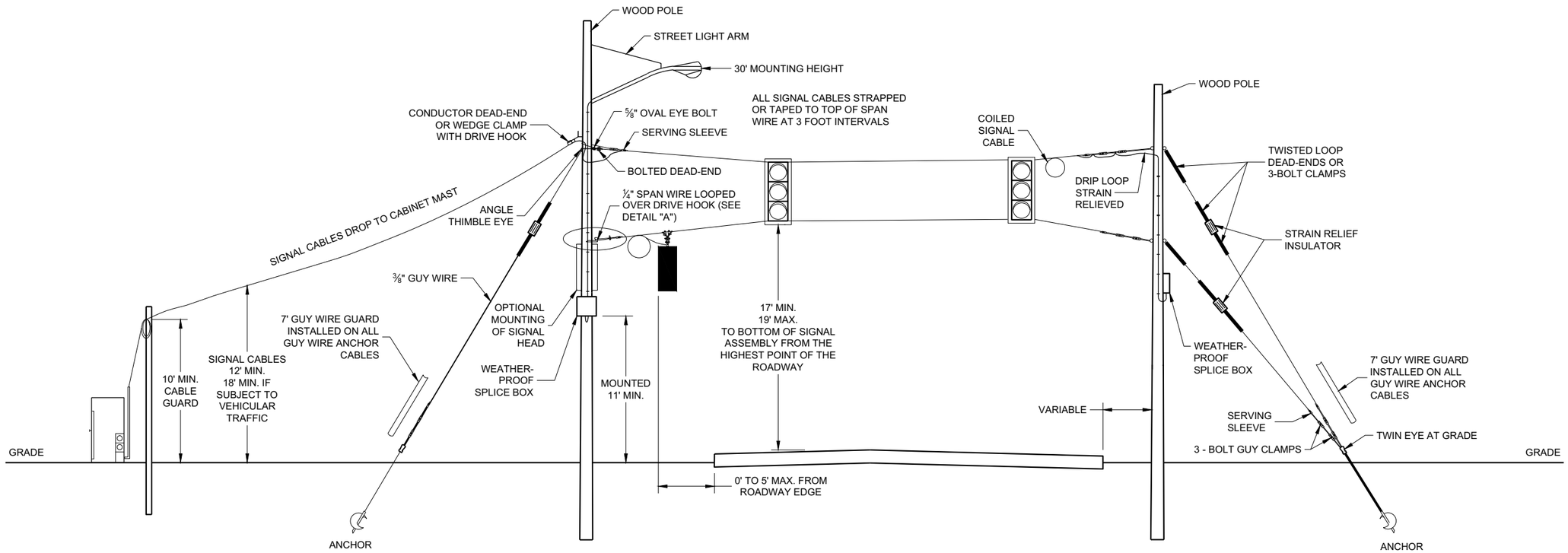


DETAIL "A"

GENERAL NOTES

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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 586

FHWA

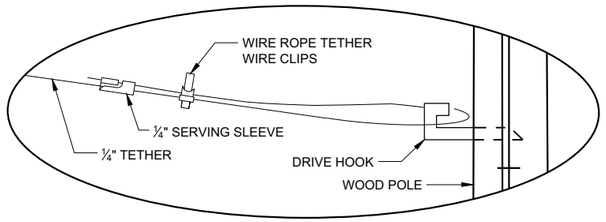
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SDD09G01 - 04a

SDD09G01 - 04a

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

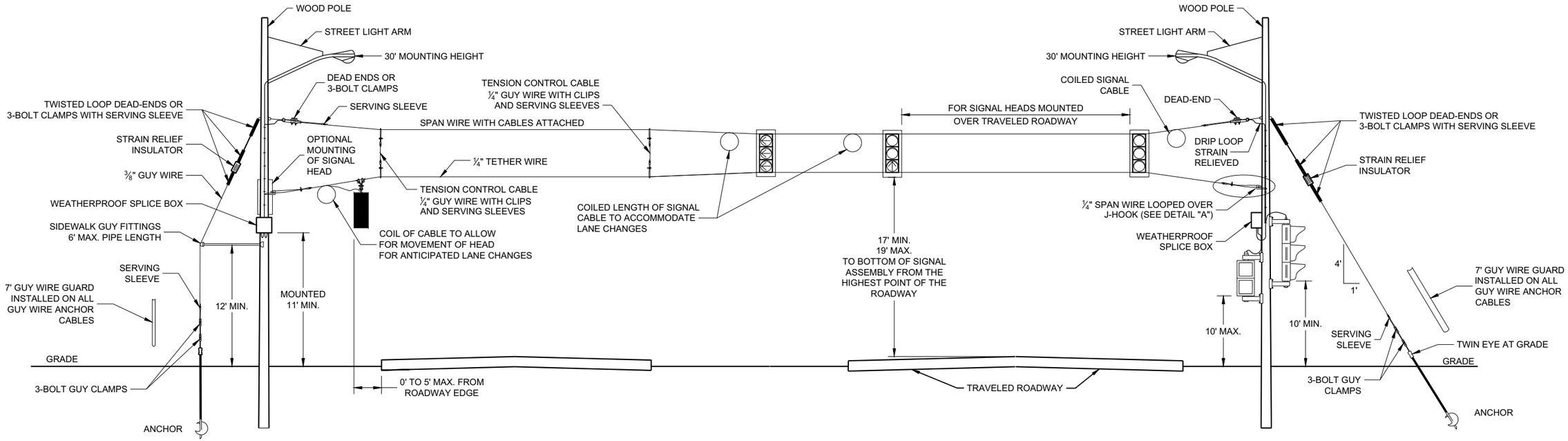


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   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

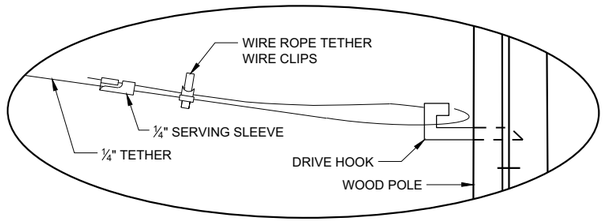
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

FHWA

SDD09G01 - 04b

SDD09G01 - 04b

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

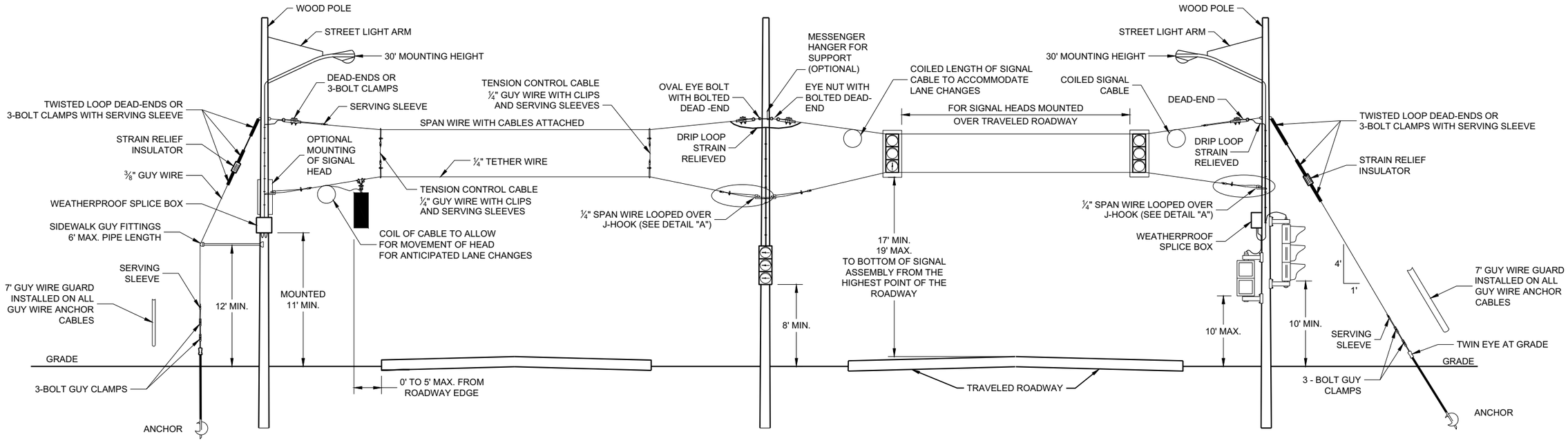


DETAIL "A"

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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 588

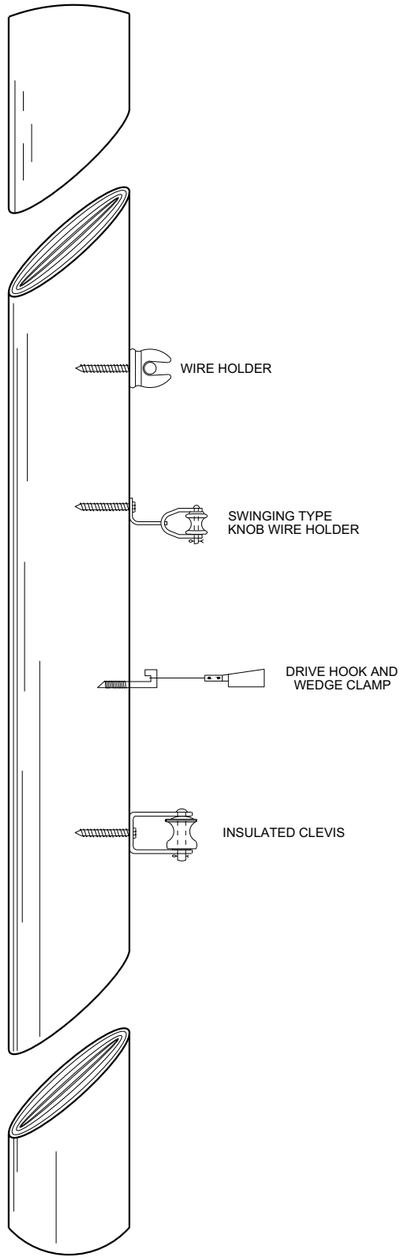
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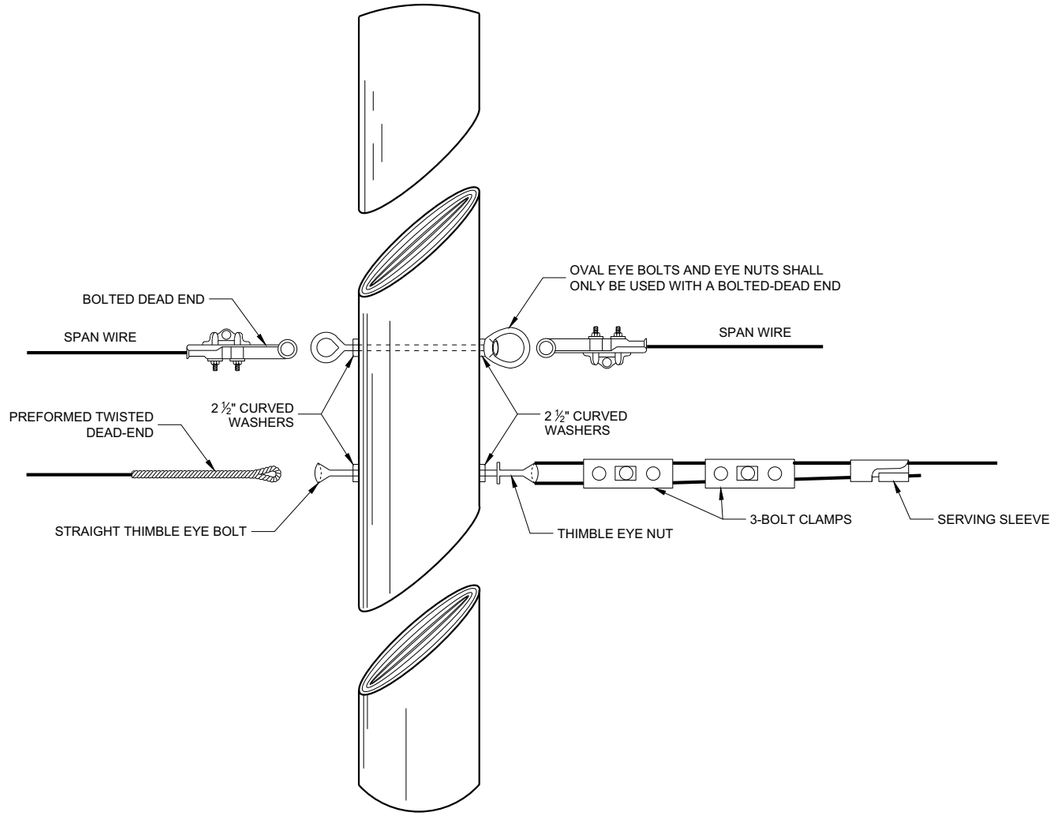
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SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

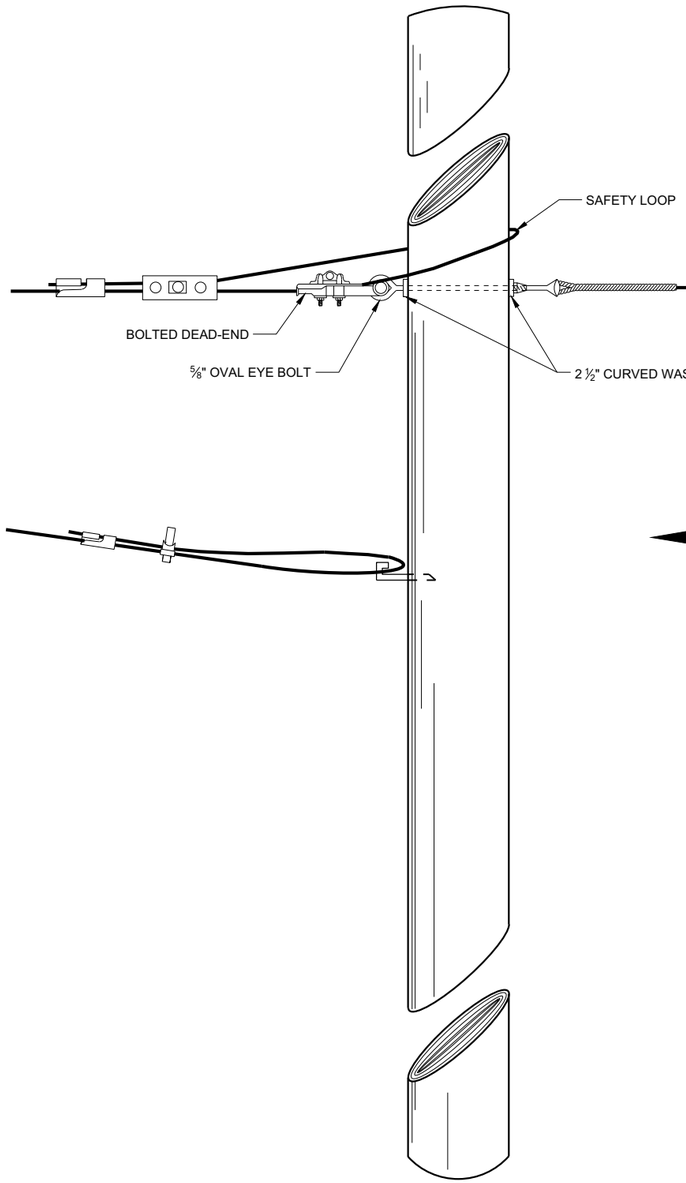
June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

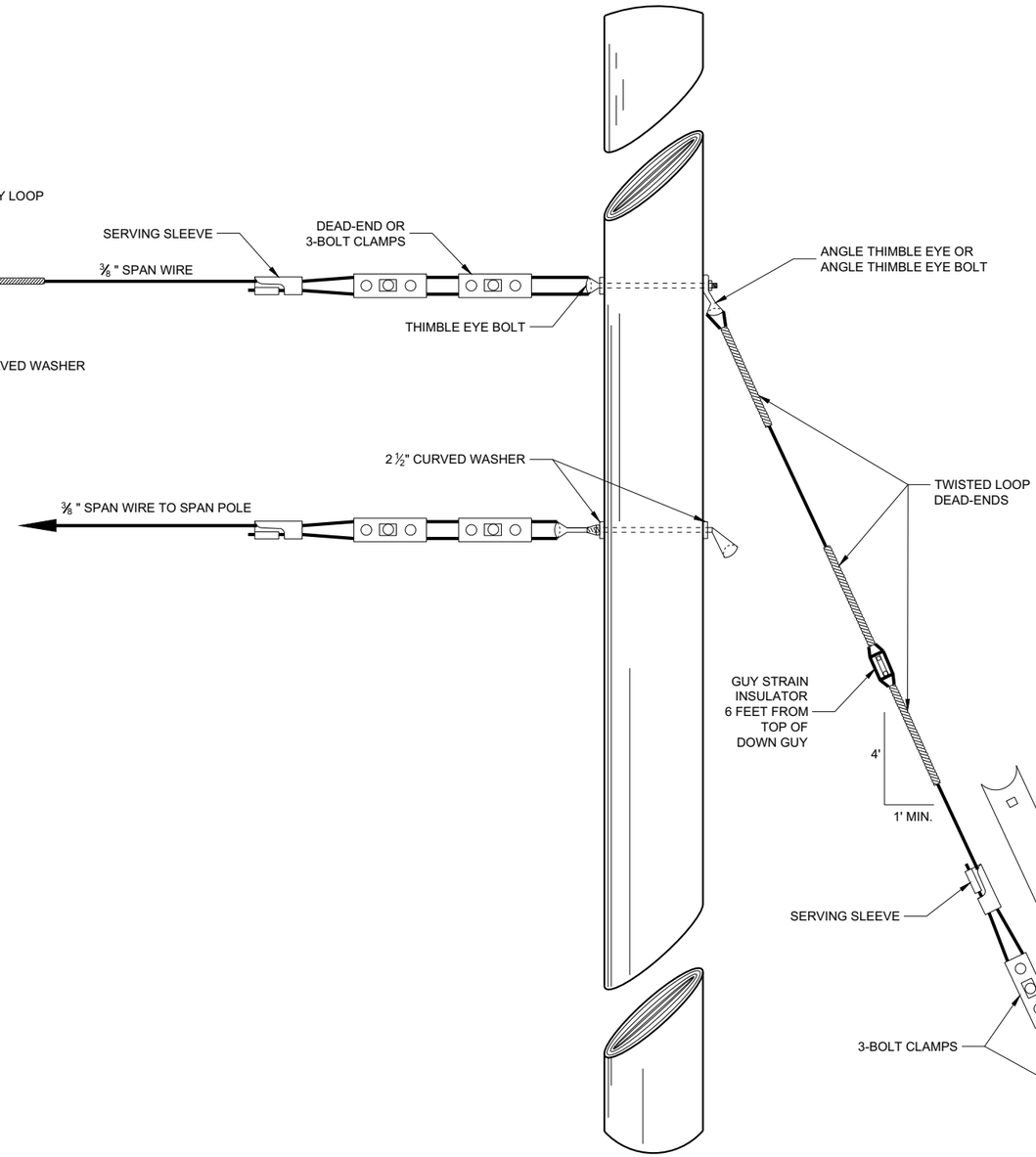
FHWA

GENERAL NOTES

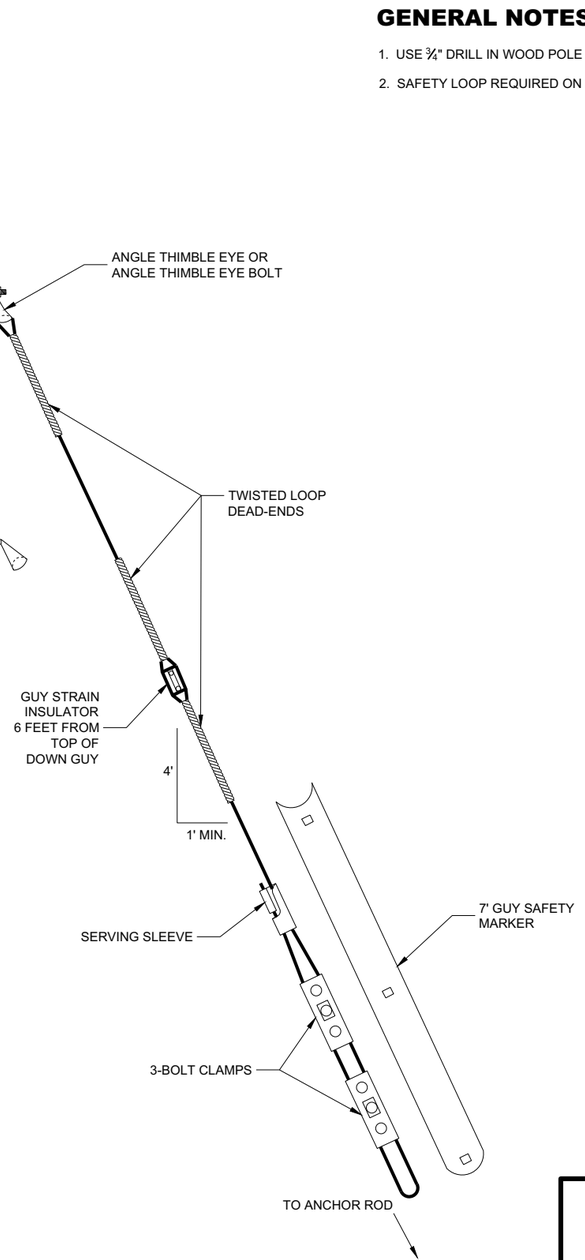
1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE



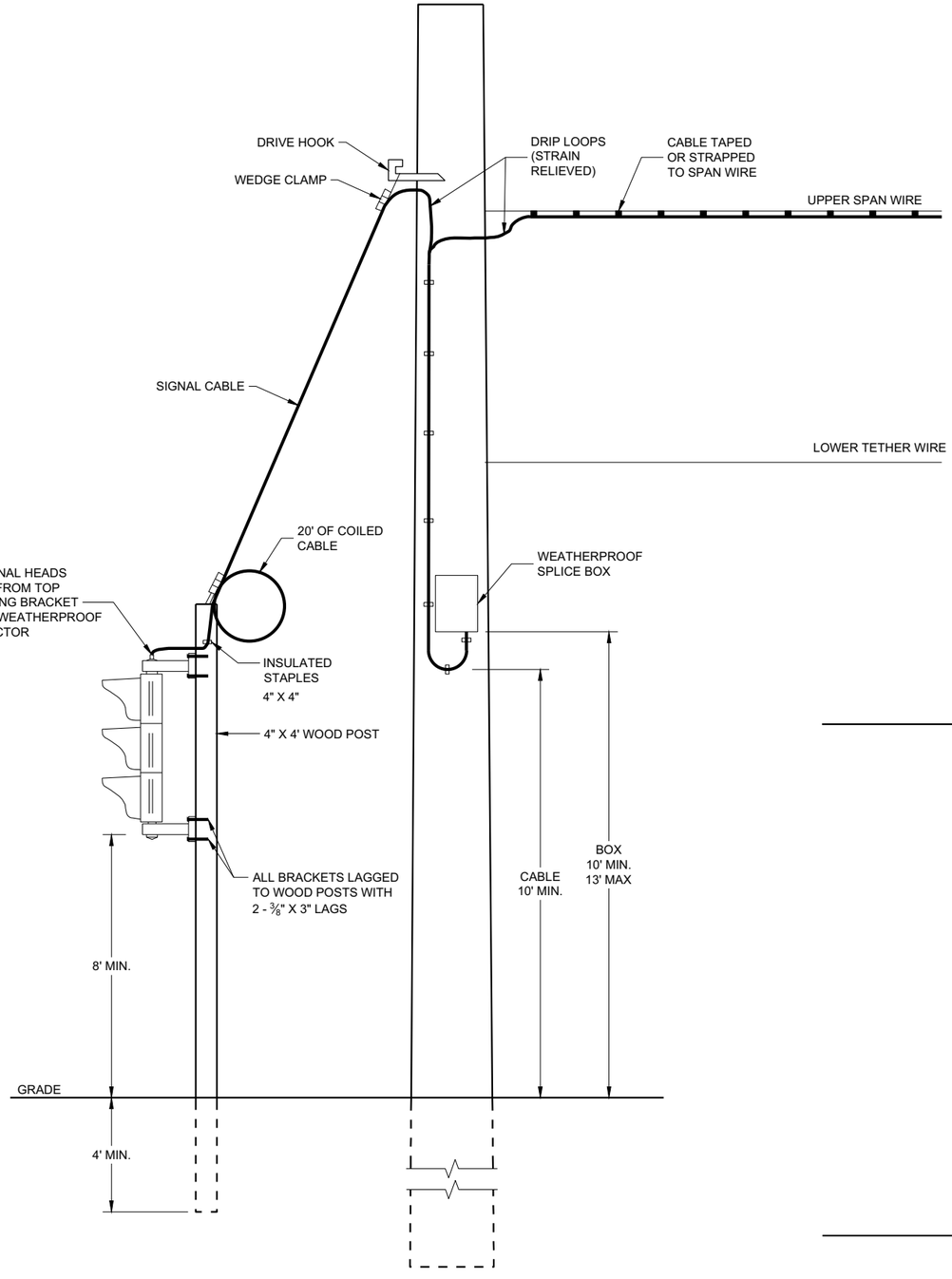
TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

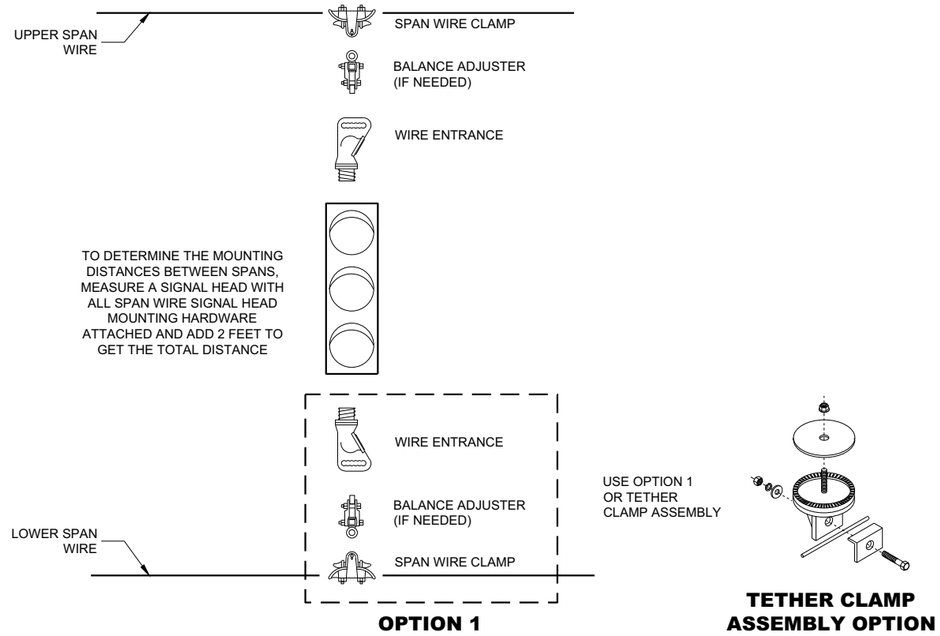
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER
FHWA

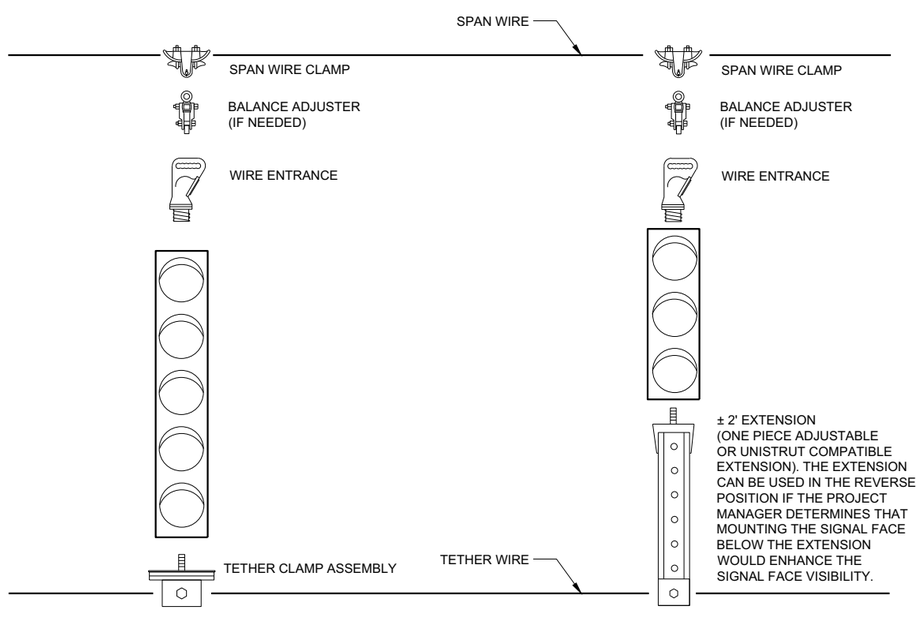
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SDD 09G01 - 4e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

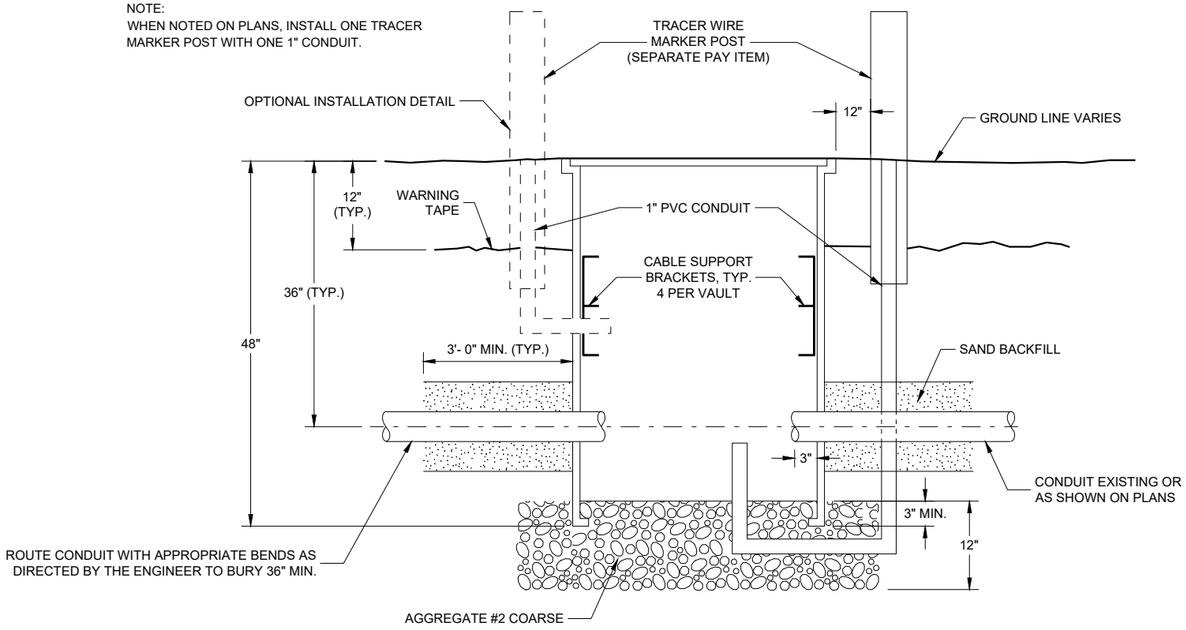
/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

FHWA

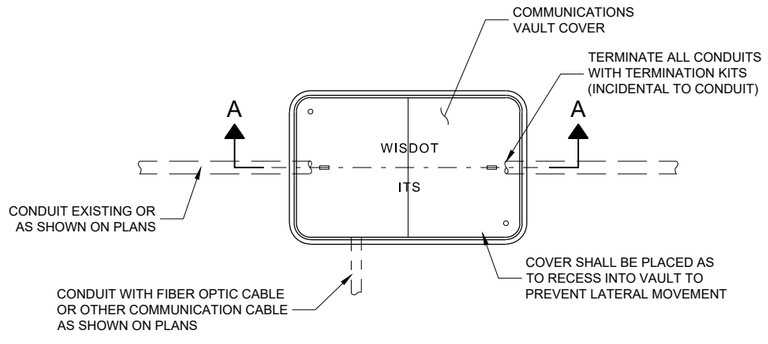
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SDD 09G01 - 4f

NOTE:
WHEN NOTED ON PLANS, INSTALL ONE TRACER MARKER POST WITH ONE 1" CONDUIT.



SECTION A - A



PLAN VIEW

COMMUNICATIONS VAULT TYPE 1

GENERAL NOTES

PROVIDE VAULT WITH OPEN BASE.

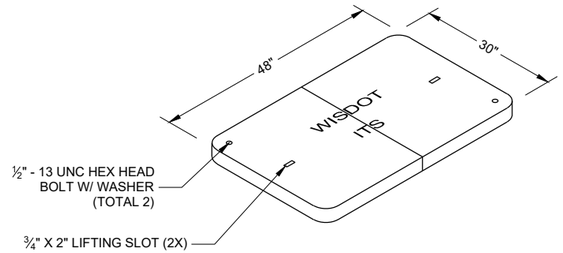
COVER SHALL HAVE A MINIMUM DESIGN LOAD OF 15,000 LBS AND SHALL LOCK.

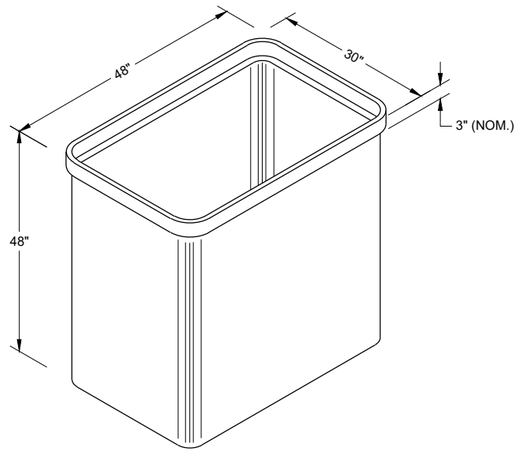
ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION, OR PUNCH DRIVEN AT TIME OF PLACEMENT.

VAULTS SHALL BE OF ONE-PIECE CONSTRUCTION. TWO-PIECE/STACKABLE VAULTS WILL NOT BE PERMITTED.

FIELD PLACEMENT OF COMMUNICATIONS VAULTS SHALL BE AS DIRECTED BY THE ENGINEER.

FIBER TRACER MARKER POSTS SHALL BE CONSTRUCTED WITH HIGH-IMPACT PLASTIC MATERIAL WHICH IS FADE RESISTANT AND UV STABLE. ALL HARDWARE SHALL BE STAINLESS STEEL AND CONTAIN A MINIMUM OF FIVE STANDARD TERMINALS.





ISOMETRIC VIEW

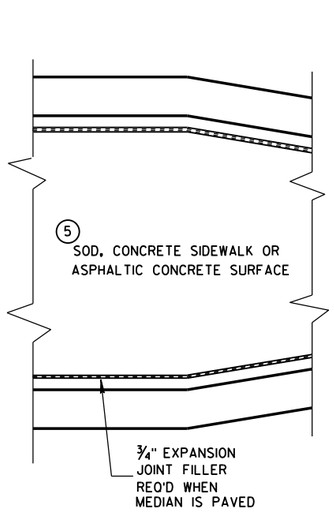
COMMUNICATION VAULT TYPE 1	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
May 2017 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL ENGI 592
FHWA	

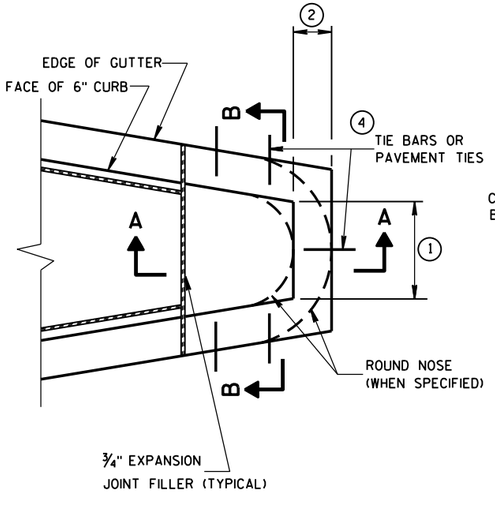
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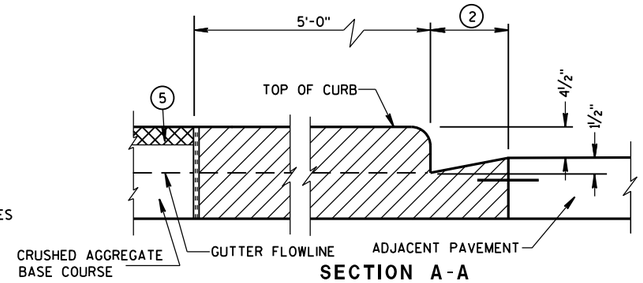
SDD 09H09 - 02

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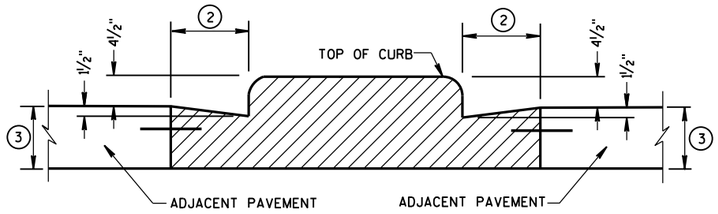
SDD 09H09 - 02







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

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

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

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

(1) NEW OR EXISTING CONCRETE PAVEMENT.

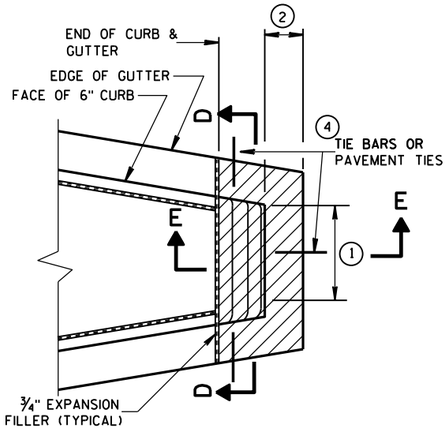
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

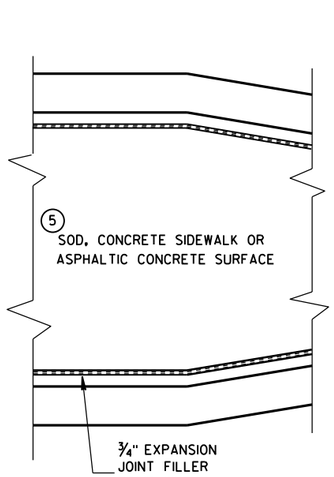
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

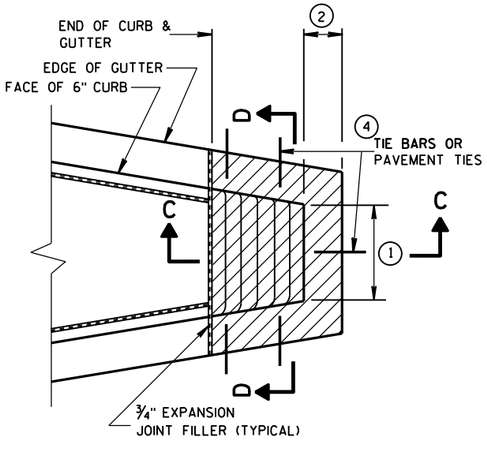
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

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

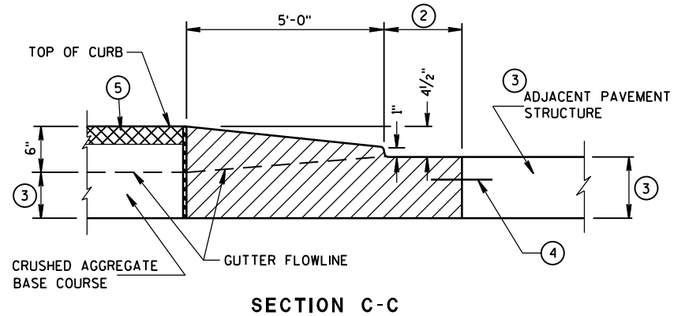
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



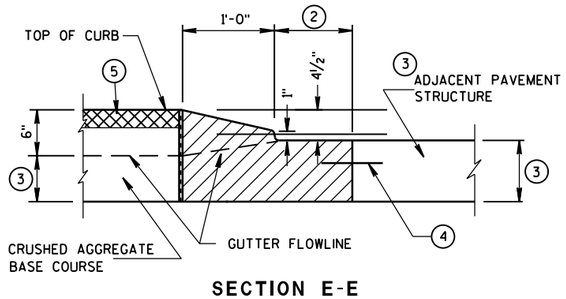




CONCRETE MEDIAN SLOPED NOSE TYPE 1

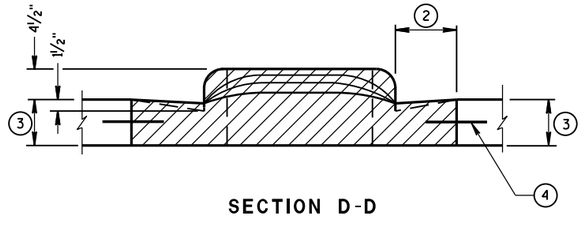


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

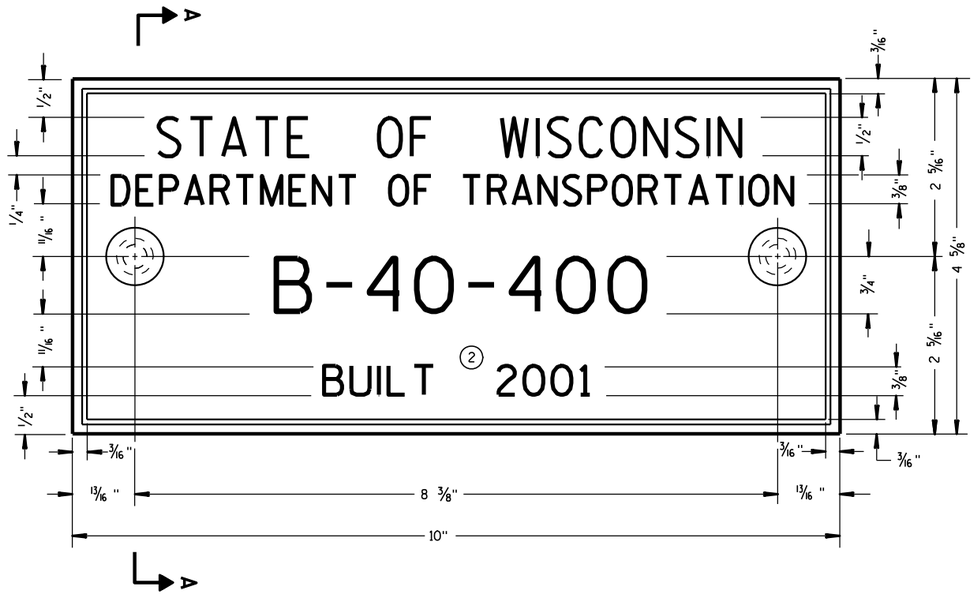
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)

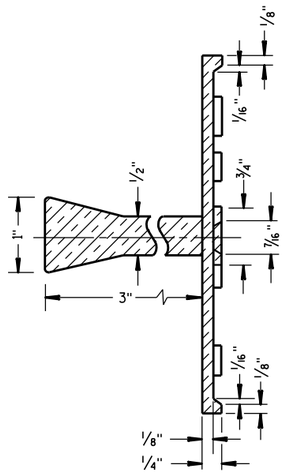
GENERAL NOTES

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

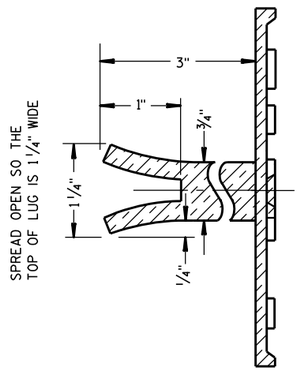
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

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

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



SECTION A-A



ALTERNATE LUG

FOR MULTI-UNIT STRUCTURES LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

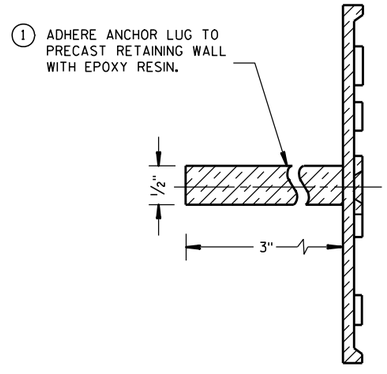
COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION MULTI-UNIT STRUCTURES



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

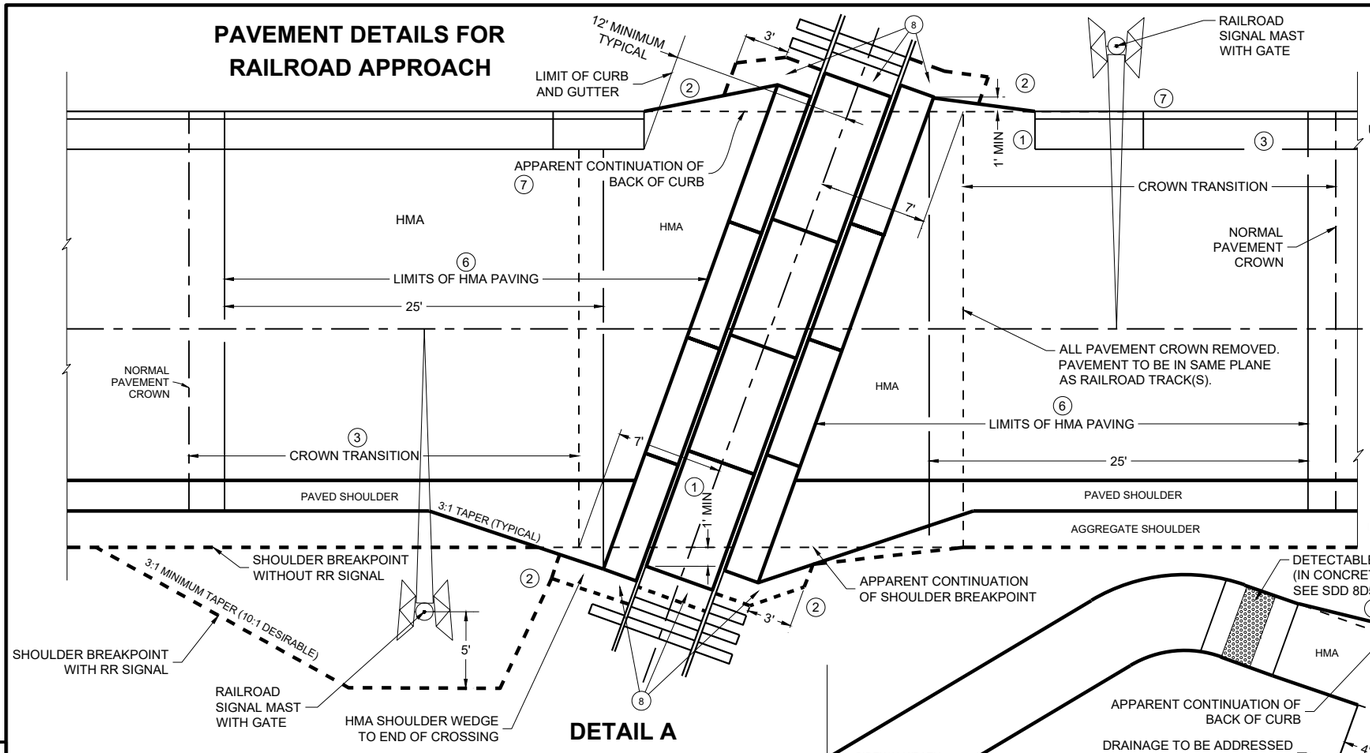
/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP ENGINEER

FHWA

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S.D.D. 12 A 3-10

PAVEMENT DETAILS FOR RAILROAD APPROACH



DETAIL A
RAILROAD APPROACH

GENERAL NOTES CONTINUED

(1) 1' MINIMUM CROSSING SURFACE COVERAGE PAST THE APPARENT CONTINUATION OF SHOULDER BREAKPOINT, BACK OF CURB, OR OUTSIDE EDGE OF SIDEWALK/PATH. INDIVIDUAL RAILROADS MAY HAVE DIFFERENT MINIMUM STANDARDS.

(2) HMA FLARE FROM OUTSIDE EDGE OF SIDEWALK/PATH, BACK OF CURB, OR AGGREGATE SHOULDER BREAKPOINT TO THE END OF CROSSING SURFACE MATERIAL.

(3) CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.

(4) NEAR EDGE OF PATH TO THE CENTER OF SIGNAL OR GATE MAST SHOULD BE A MINIMUM OF 5'-0". FOR SIDEWALK, THE NEAR EDGE SHOULD BE A MINIMUM OF 3'-0" TO THE CENTER OF SIGNAL OR GATE. NEAR EDGE OF SIDEWALK TO A NON-GATED MAST OR CANTILEVER SHOULD BE A MINIMUM OF 2'-6". SEE PLAN FOR RAILROAD SIGNAL AND GATE LOCATION IF THEY ARE NOT ALREADY INSTALLED.

(5) TERRACE WIDTH VARIES. SEE PLAN FOR RAILROAD SIGNAL AND GATE LOCATIONS. PER PLAN OR PROJECT ENGINEER THE TERRACE AND SIDEWALK/PATH GRADES SHALL BE TRANSITIONED TO MATCH THE GRADE OF THE TRACK. FIELD FIT TO AVOID PONDING.

(6) 25' MINIMUM HMA PAVING MEASURED PARALLEL TO THE ROAD OR 10' MINIMUM MEASURED PERPENDICULAR TO THE TRACK FROM THE EDGE OF THE CROSSING SURFACE, WHICHEVER IS GREATER.

(7) REFERENCE SDD 8-D-01 END SECTION CURB AND GUTTER. MEDIAN END NEAR THE TRACK SHOULD BE PARALLEL TO THE TRACK. 6'-0" TAPER FOR A MEDIAN SHOULD BE REDUCED TO GET FULL HEIGHT CURB WHERE THE GATE COMES DOWN. DESIGN OPTION TO POUR MEDIAN TAPER IN ONE PIECE. BUILD PER PLAN UNLESS OTHERWISE APPROVED BY THE RAILROAD ENGINEER AND THE PROJECT ENGINEER.

(8) IF METAL END PLATES ARE NOT INSTALLED BY THE RAILROAD THEN HMA PAVEMENT WEDGE SHALL BE PLACED AT THE END OF THE LAST PANEL TAPERED TO BACK EDGE OF NEXT TIE AND THOROUGHLY COMPACTED. SEE DETAIL G.

GENERAL NOTES

PLANS AND SECTIONS ARE TYPICAL. DIMENSIONS VARY PER PROJECT.

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

CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS DIRECTED OTHERWISE. IF THE FINAL GRADES DON'T MATCH TO THE PLAN GRADES THEN GRADE ADJUSTMENTS WILL BE NECESSARY. CONFIRM NEW GRADES WITH PROJECT ENGINEER.

HMA PAVEMENT APPROACHES, HMA PAVEMENT CROSSING SURFACES, AND HMA FLANGEWAY/FIELD FILLERS TO BE REPLACED BY ROADWAY CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE PLANS, SPECIAL PROVISIONS, RAILROAD ENGINEER, OR PROJECT ENGINEER.

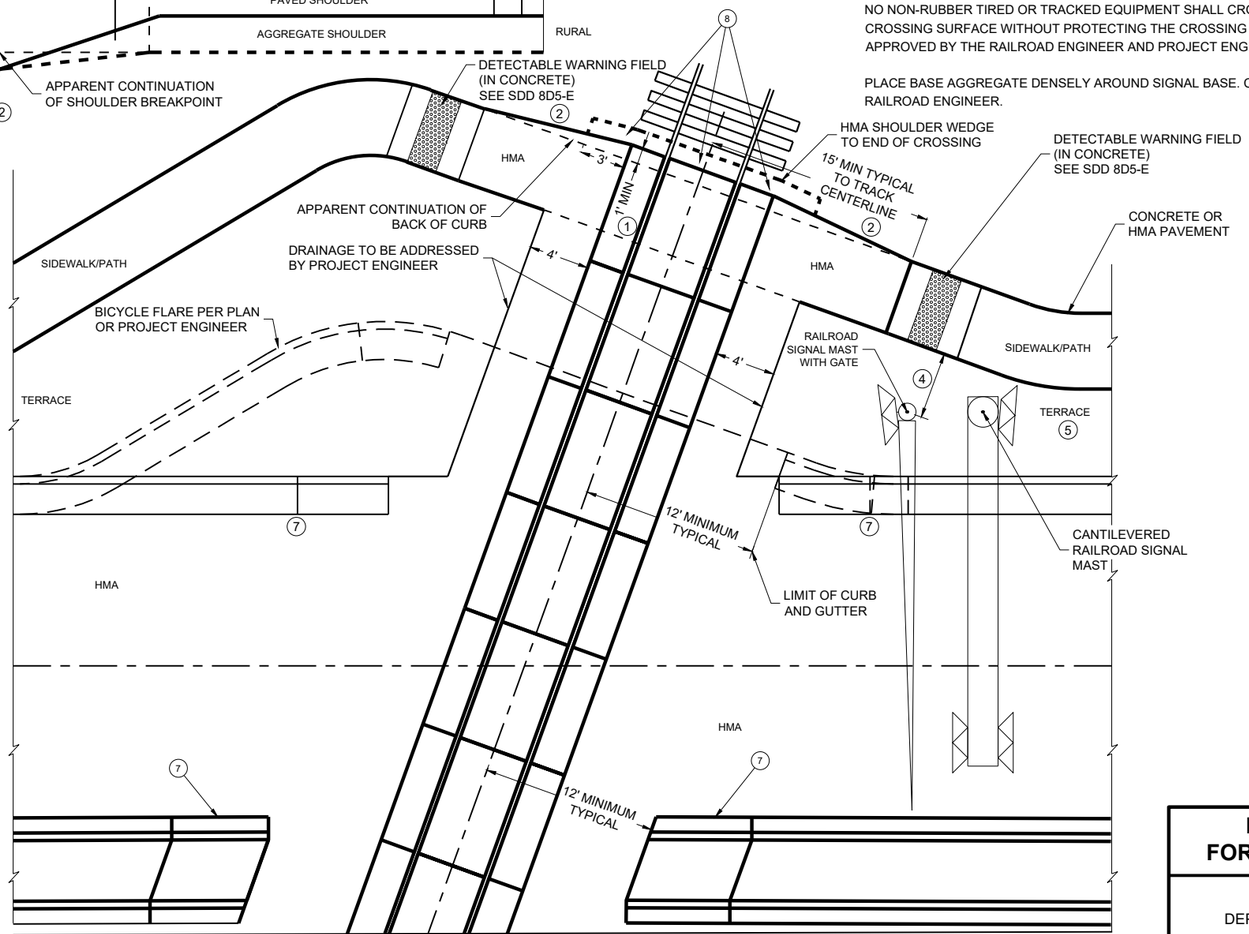
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

WHEN THERE IS A SIDEWALK OR SHARED-USE PATH, ADD DETECTABLE WARNING FIELDS PER CURRENT STANDARD DETAIL DRAWING 8D5-E.

THE CROSSING SHALL NOT BE OPENED TO ANY TYPE OF TRAFFIC UNTIL IT IS FULLY PAVED AND COOLED SUFFICIENTLY UNLESS OTHERWISE APPROVED BY THE RAILROAD ENGINEER AND THE PROJECT ENGINEER.

NO NON-RUBBER TIRED OR TRACKED EQUIPMENT SHALL CROSS OR SIT ON THE CROSSING SURFACE WITHOUT PROTECTING THE CROSSING SURFACE WITH A METHOD APPROVED BY THE RAILROAD ENGINEER AND PROJECT ENGINEER.

PLACE BASE AGGREGATE DENSELY AROUND SIGNAL BASE. COORDINATE WITH THE RAILROAD ENGINEER.



DETAIL B
MEDIAN AND SIDEWALK/SHARED-USE PATH APPROACH

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Kristen Sommers
STATE RAILROAD ENGINEERING AND SAFETY SUPERVISOR

FHWA

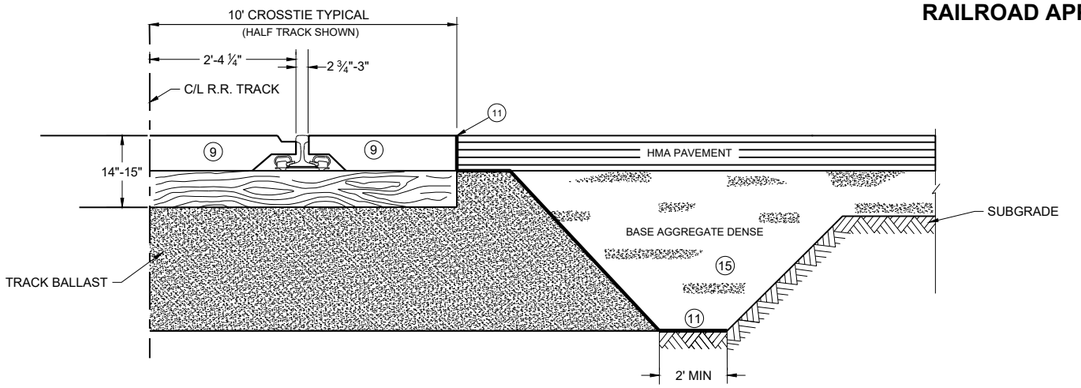
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SDD 13B01-11a

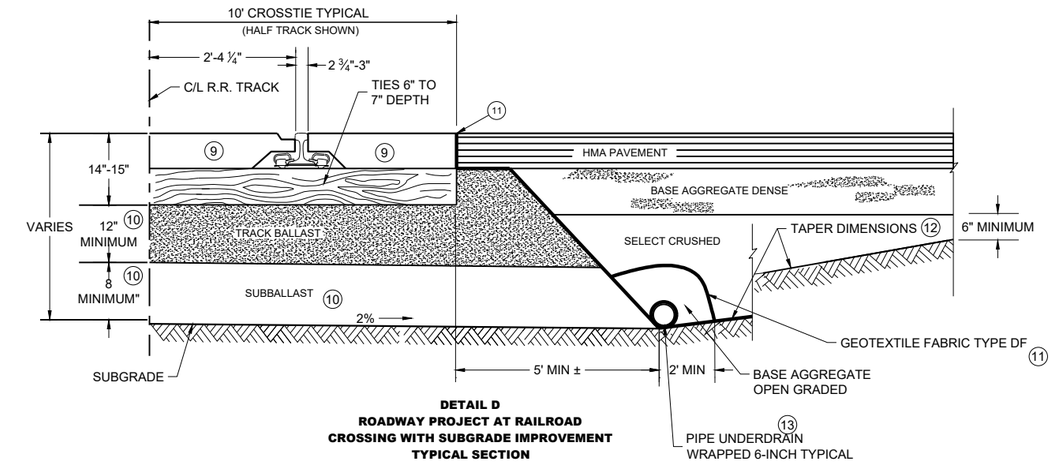
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SDD 13B01-11a

TYPICAL SECTIONS FOR RAILROAD APPROACH



DETAIL C
ROADWAY PROJECT AT RAILROAD
CROSSING WITHOUT SUBGRADE IMPROVEMENT
TYPICAL SECTION



DETAIL D
ROADWAY PROJECT AT RAILROAD
CROSSING WITH SUBGRADE IMPROVEMENT
TYPICAL SECTION

GENERAL NOTES

(8) IF METAL END PLATES ARE NOT INSTALLED BY THE RAILROAD THEN HMA PAVEMENT WEDGE SHALL BE PLACED AT THE END OF THE LAST PANEL TAPERED TO BACK EDGE OF NEXT TIE AND THOROUGHLY COMPACTED. SEE DETAIL A AND B.

(9) MATCH THE CROSSING TYPE THAT IS INSTALLED UNLESS OTHERWISE DIRECTED BY PROJECT ENGINEER.

(10) TRACK BALLAST AND SUBBALLAST REQUIRED 12" AND 8" MINIMUM DEPTHS RESPECTIVELY. DIMENSION FROM BOTTOM OF TRACK TIE TO HIGH SIDE OF 2% SLOPE. THE 2% SLOPE IS REQUIRED ON RAILROAD SUBBALLAST. SEE PLAN FOR CROWN, MATERIAL THICKNESS, AND SLOPE DIRECTION. SUBBALLAST CAN BE HMA, 1 1/2" BASE AGGREGATE DENSE, SELECT CRUSHED, OR A COMBINATION OF THEM.

(11) GEOTEXTILE FABRIC TYPE SAS PLACED IN ORDER TO PROVIDE STABILIZATION AND SEPARATION ON TOP OF THE TRACK BALLAST WHERE IT IS UNDER HMA PAVEMENT, BASE AGGREGATE DENSE OR SELECT CRUSHED MATERIAL AND THE FIELD SIDE BALLAST CRIBS. GEOTEXTILE FABRIC TYPE DF PLACED IN ORDER TO PROVIDE STABILIZATION AND SEPARATION UNDER AND AROUND THE PIPE UNDERDRAIN. PLACING GEOTEXTILE FABRIC OR GEOGRID UNDER THE SUBBALLAST IS OPTIONAL.

(12) TAPER DIMENSIONS PROVIDED BY PLAN OR BY PROJECT ENGINEER.

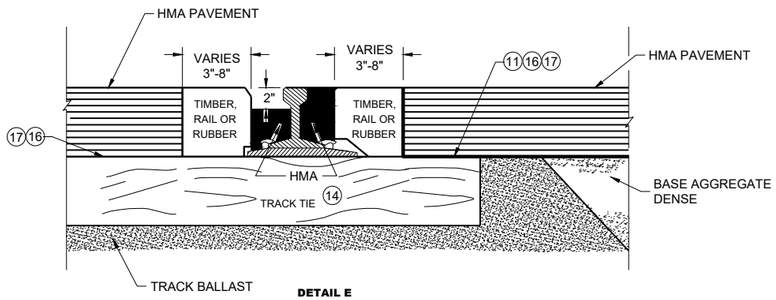
(13) IF SHOWN ON THE PLAN, TYPICAL 6-INCH PERFORATED PVC SCHEDULE 80 PIPE UNDERDRAIN TO BE PLACED ALONG THE TOE OF SLOPE, GRADED TO DRAIN AND DAYLIGHT OR INTO STORM SEWER. BASE AGGREGATE OPEN GRADED OVER PIPE UNDERDRAIN AND THEN WRAPPED IN GEOTEXTILE FABRIC TYPE DF SCHEDULE A IN ORDER TO STABILIZE AND SEPARATE FROM SELECT CRUSHED.

(14) HMA FLANGEWAY AND FIELD FILLERS ARE TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR, WHEN NOT PROVIDED BY OTHERS AS PART OF THE CROSSING SURFACE MATERIAL. IF THE CROSSING SURFACE IS NOT BEING REPLACED, THEN REMOVE AND REPLACE THE HMA FLANGEWAY AND FIELD FILLERS AS DIRECTED BY THE RAILROAD OR PROJECT ENGINEER.

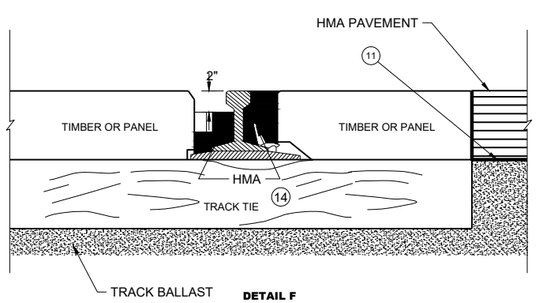
(15) GRADE TO MATCH EXISTING OR PROPOSED TYPICAL SECTION OF ROADWAY. SEE PLAN OR PROJECT ENGINEER FOR MORE DETAIL. IF NOT NOTED OTHERWISE IN THE PLAN, BACKFILL ANY REMOVED BASE AND SUBGRADE WITH BASE AGGREGATE DENSE.

(16) IF THE CROSSING IS NOT BEING REPLACED, REMOVE AND REPLACE HMA AS DIRECTED BY RAILROAD AND PROJECT ENGINEER. CARE MUST BE TAKEN TO NOT DAMAGE CROSSING PANELS, TIES, RAIL, PLATES AND SPIKES.

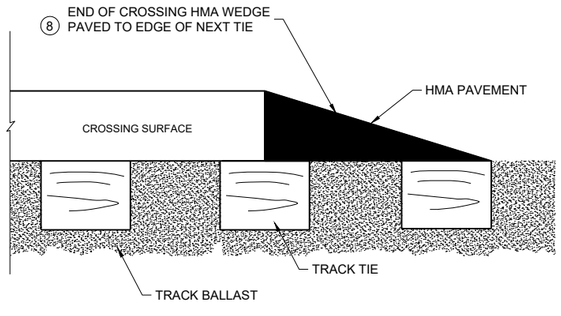
(17) PLACE HMA FULL DEPTH. AGGREGATE IS NOT TO BE PLACED BETWEEN THE RAILROAD TIES AND THE HMA PAVEMENT.



DETAIL E
TIMBER, RAIL OR RUBBER SECTION
HMA FLANGEWAY AND FIELD FILLERS



DETAIL F
PANEL SECTION
HMA FLANGEWAY AND FIELD FILLERS



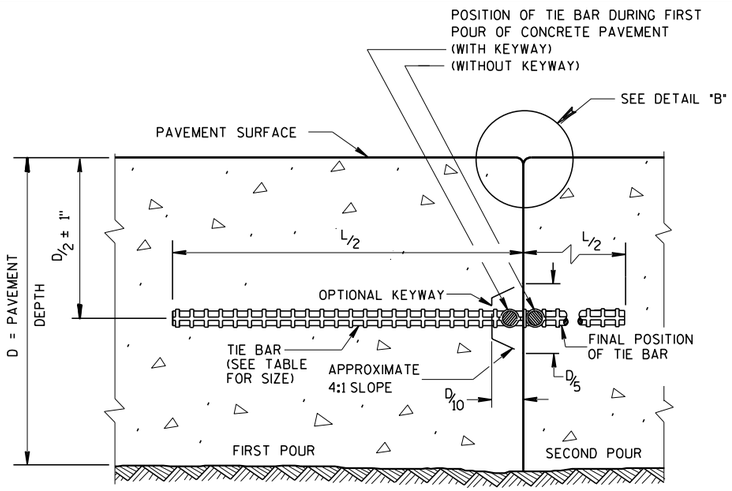
DETAIL G
END OF CROSSING HMA WEDGE

TYPICAL SECTIONS FOR RAILWAY APPROACH

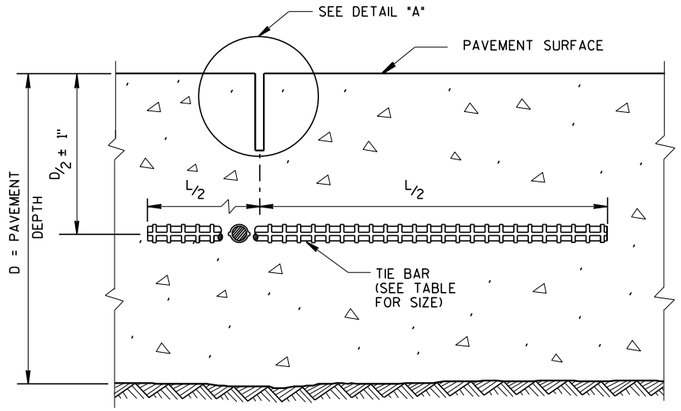
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Kristen Sommers — STATE RAILROAD ENGINEERING AND SAFETY SUPERVISOR
FHWA

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SDD 13B01-11b



CONSTRUCTION JOINT



SAWED JOINT

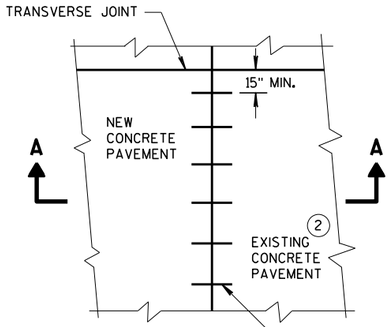
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

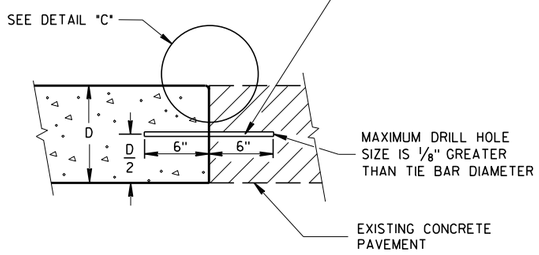
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

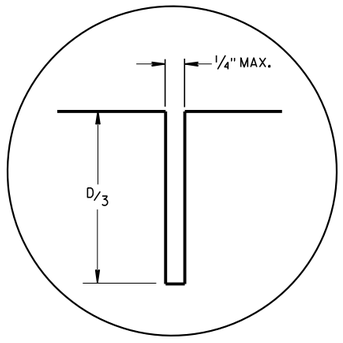


PLAN VIEW

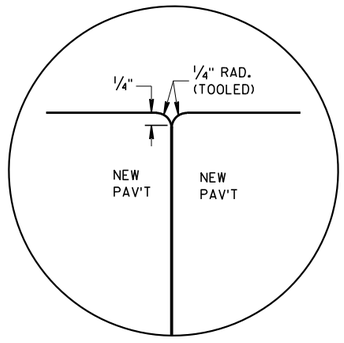


SECTION A-A

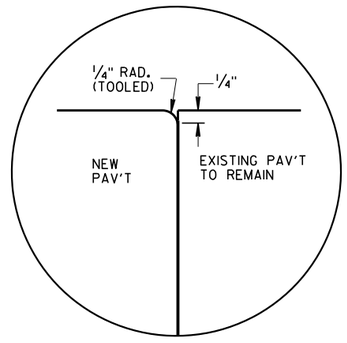
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



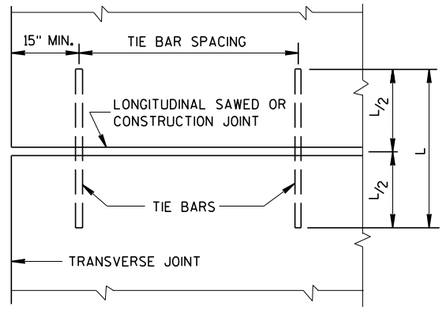
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

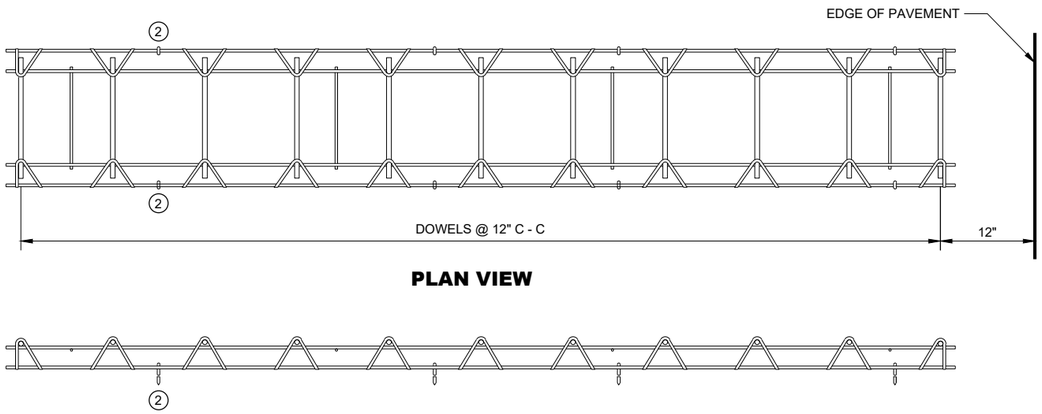
APPROVED
March 2018 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPE
FHWA

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S.D.D. 13 C 1-19

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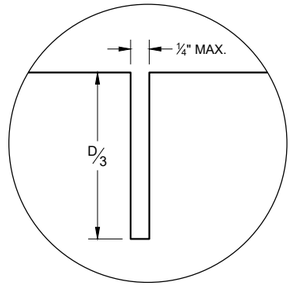
S.D.D. 13 C 1-19



PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY (1)



JOINT DETAIL

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

(1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.

(2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

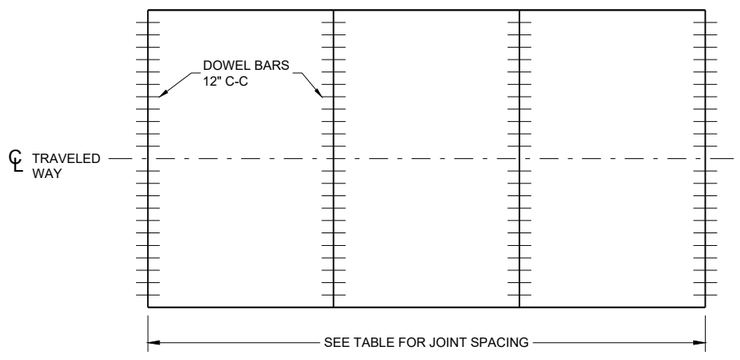
(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

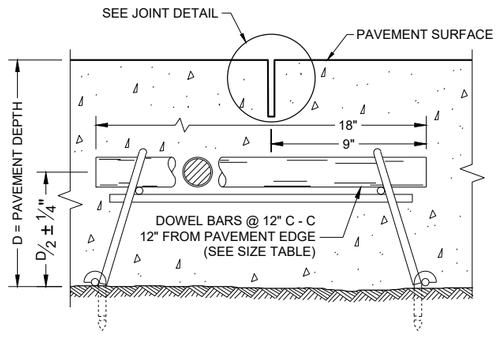
(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

(7) ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



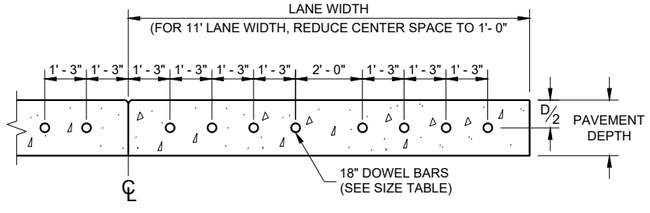
CONTRACTION JOINT LOCATIONS



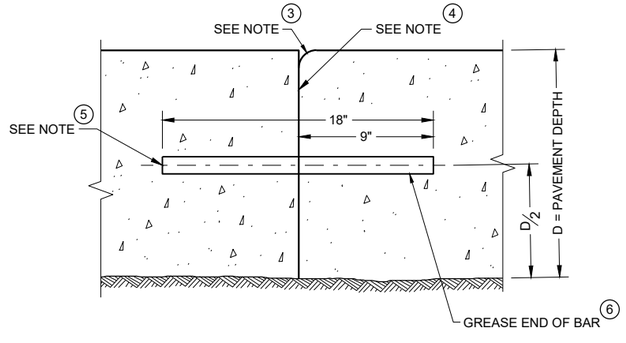
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



TRANSVERSE CONSTRUCTION JOINT

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

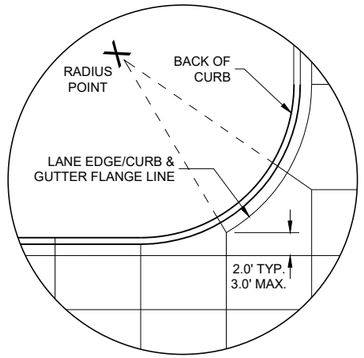
APPROVED
November 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

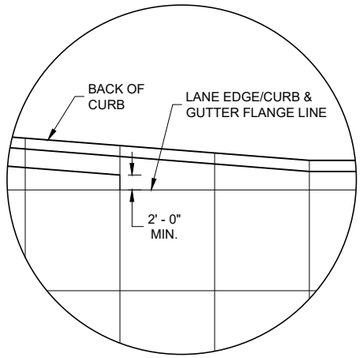
FHWA

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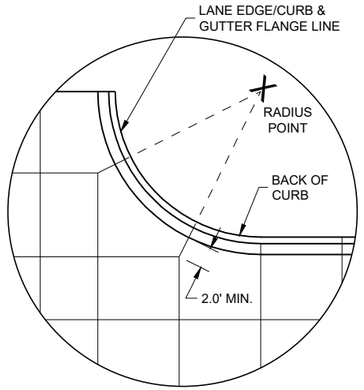
SDD 13C13 - 11



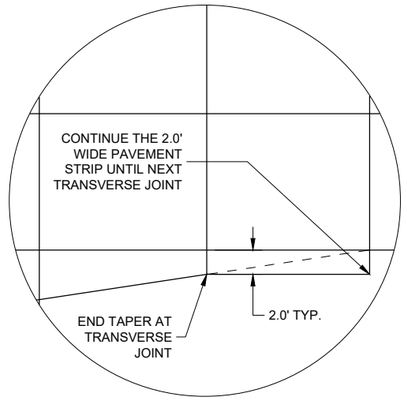
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

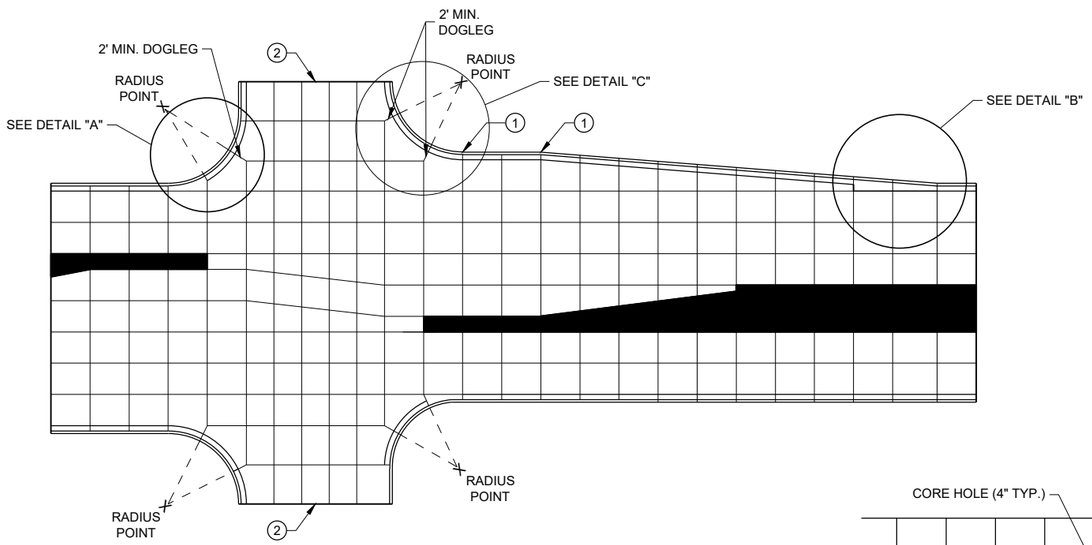
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.

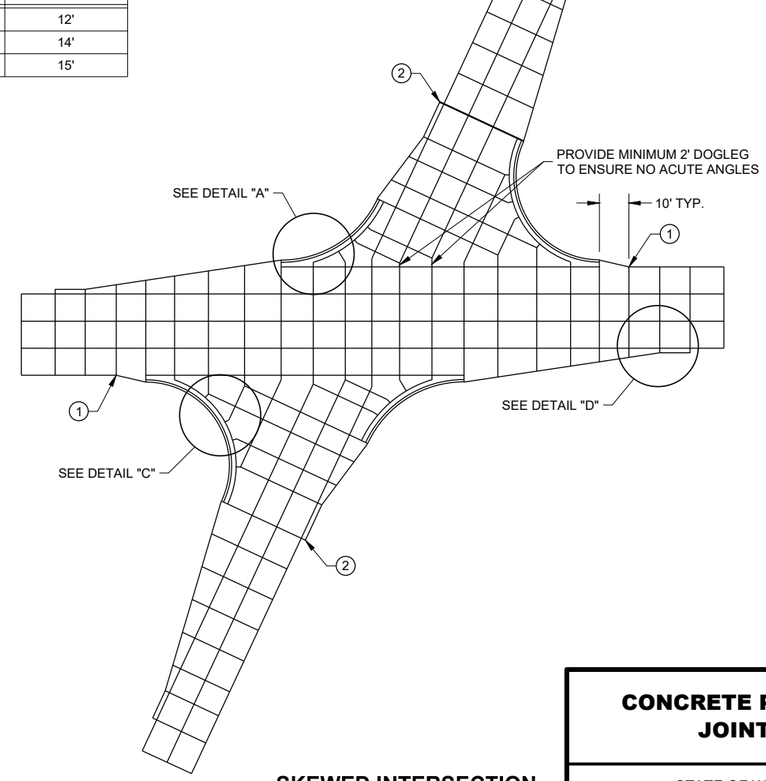
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



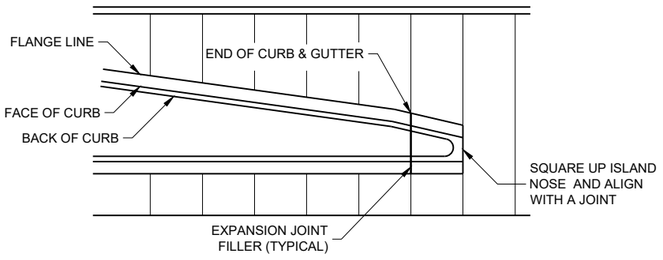
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

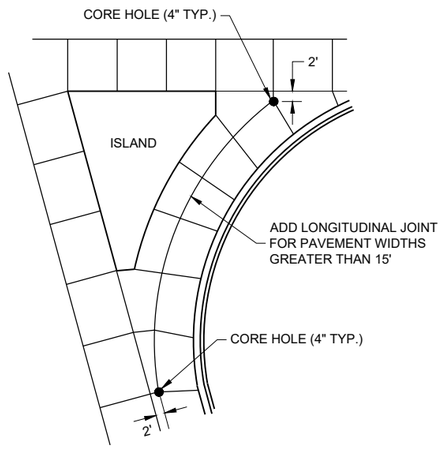
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08a

6

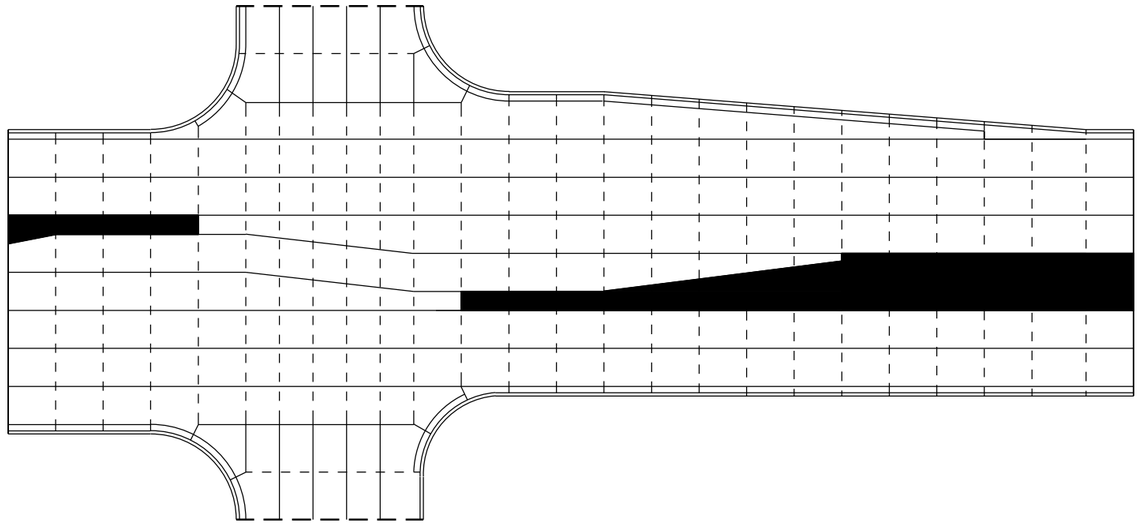
SDD 13C18 - 08a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

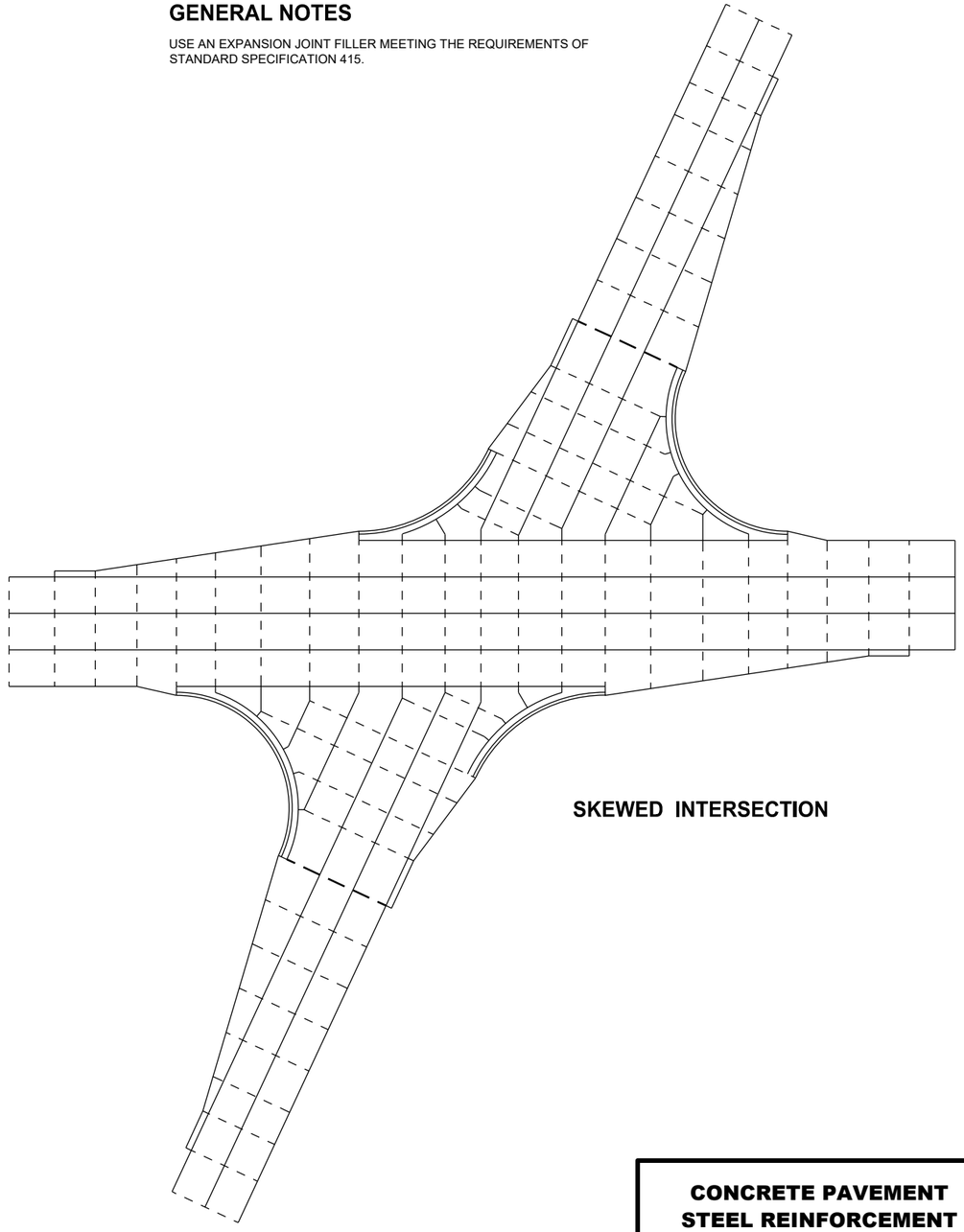
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

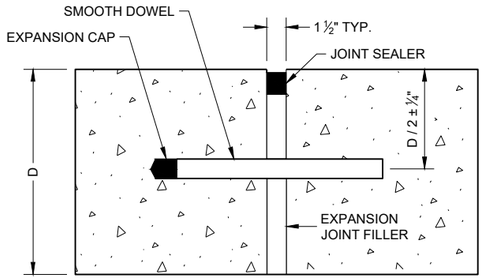
SDD 13C18 - 08b

CONCRETE PAVEMENT STEEL REINFORCEMENT

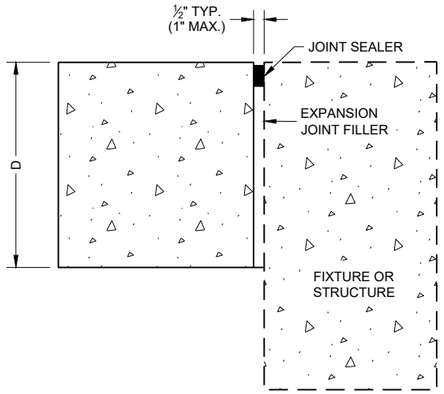
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA 600

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SDD 13C18 - 08b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

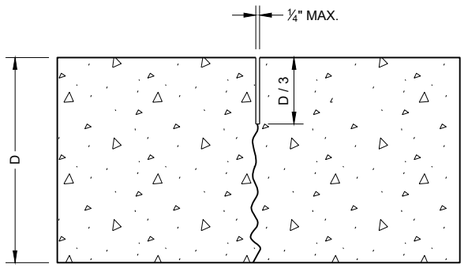
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

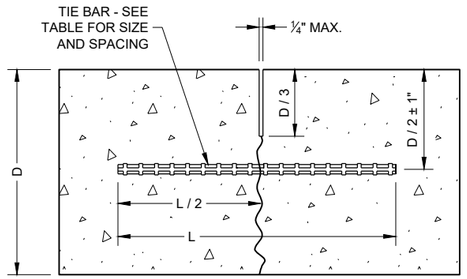
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



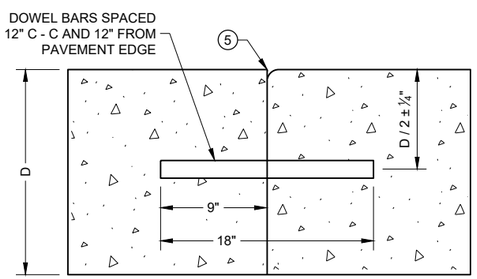
UNDOWELED TRANSVERSE



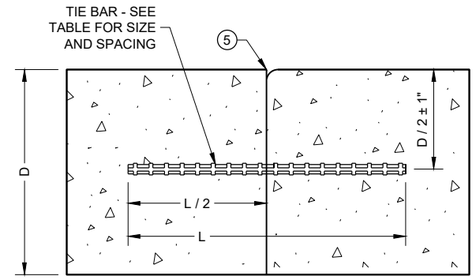
TIED LONGITUDINAL

DOWELED TRANSVERSE

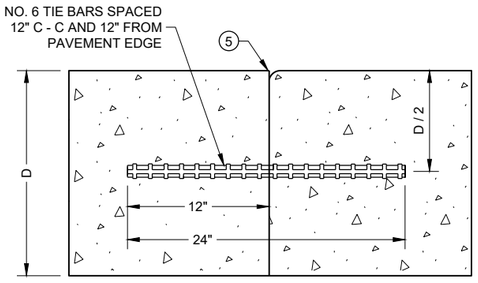
CONTRACTION JOINTS (2)



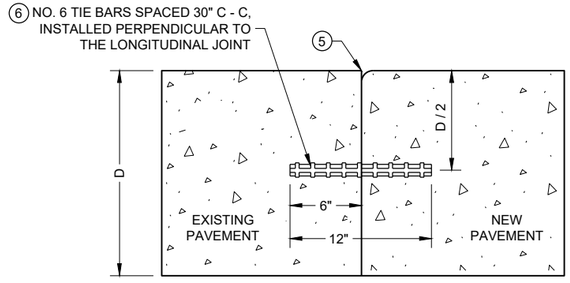
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

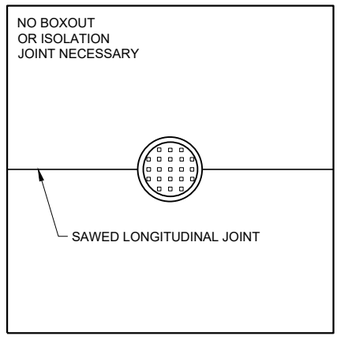
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

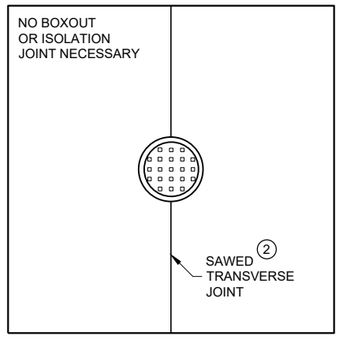
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 13C18 - 08c

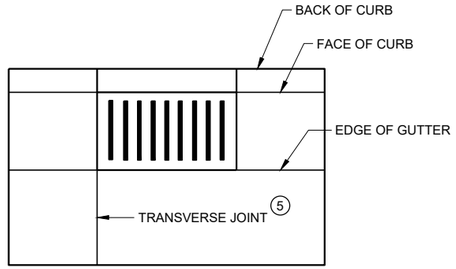
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MANHOLE WITH LONGITUDINAL JOINT



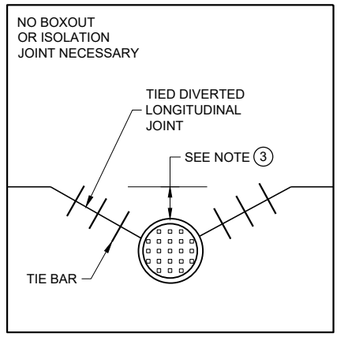
MANHOLE WITH TRANSVERSE JOINT



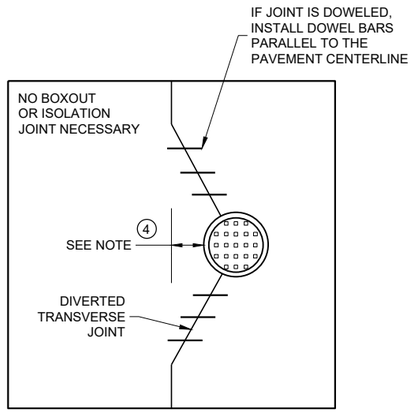
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

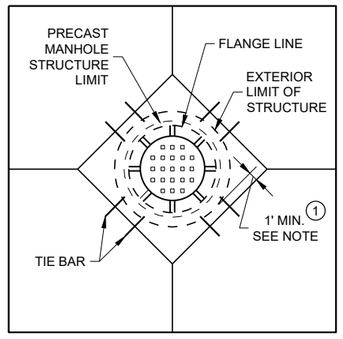
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

602

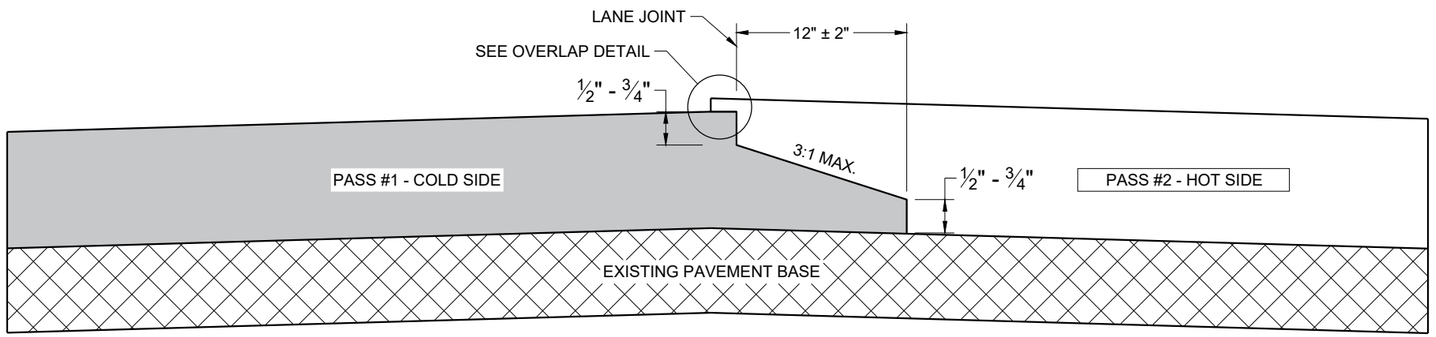
FHWA

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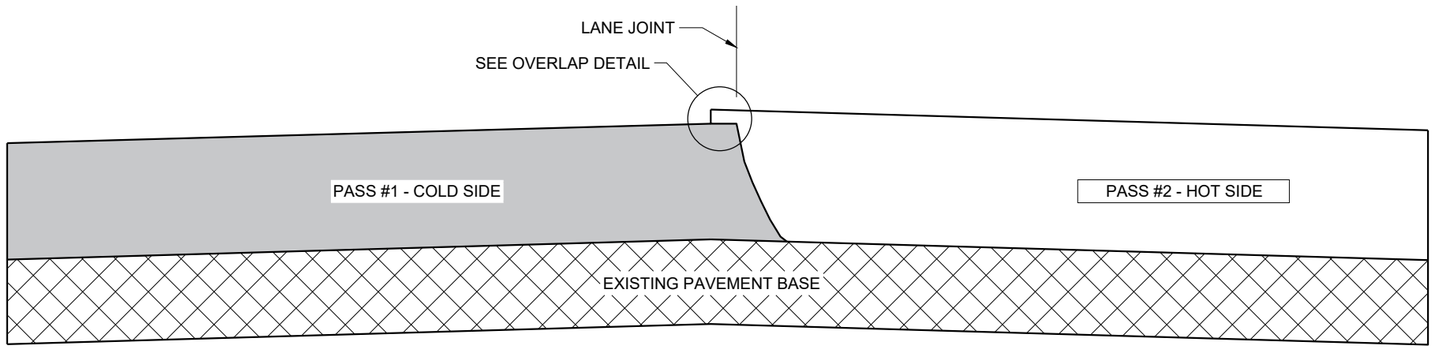
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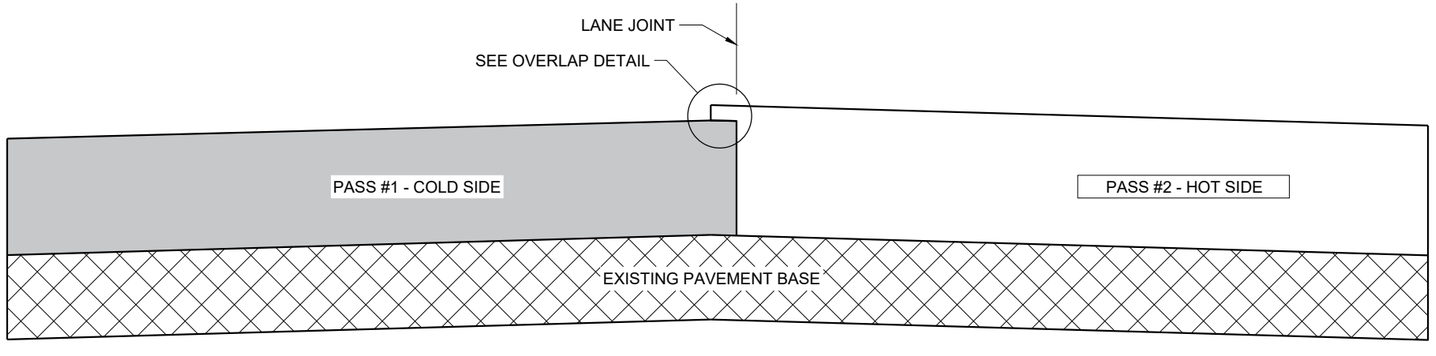
SDD13C18 - 08d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

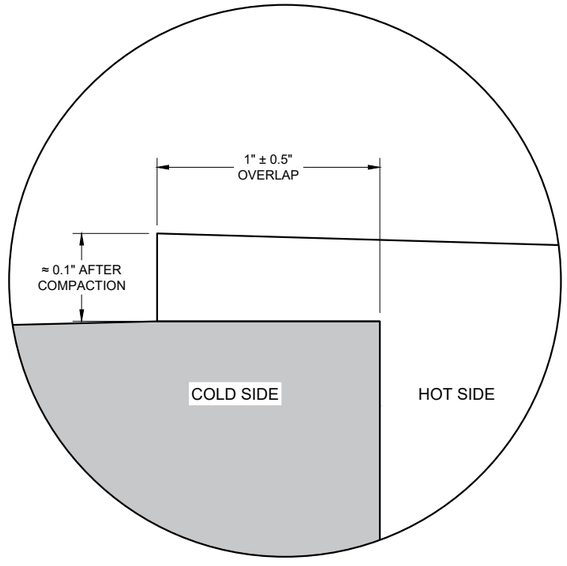
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

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

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

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



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

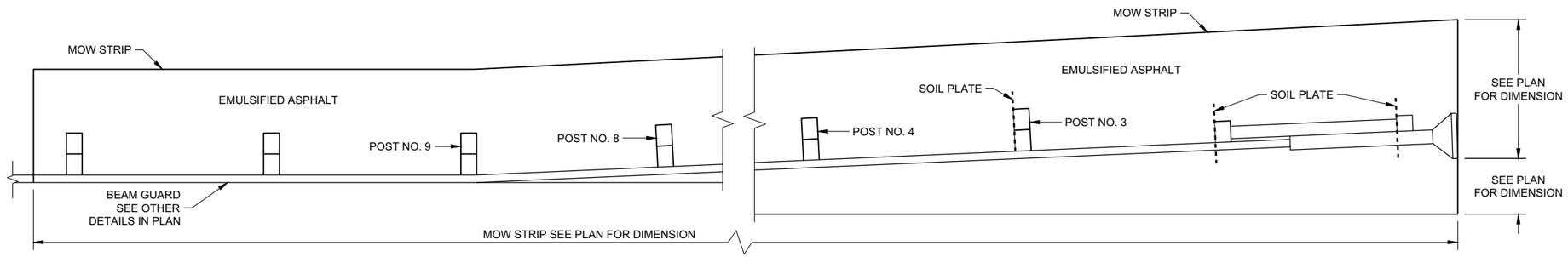
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN 603

FHWA



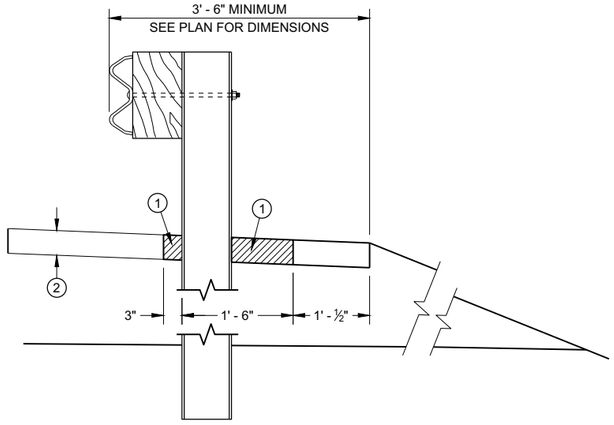
PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABSORBING TERMINAL

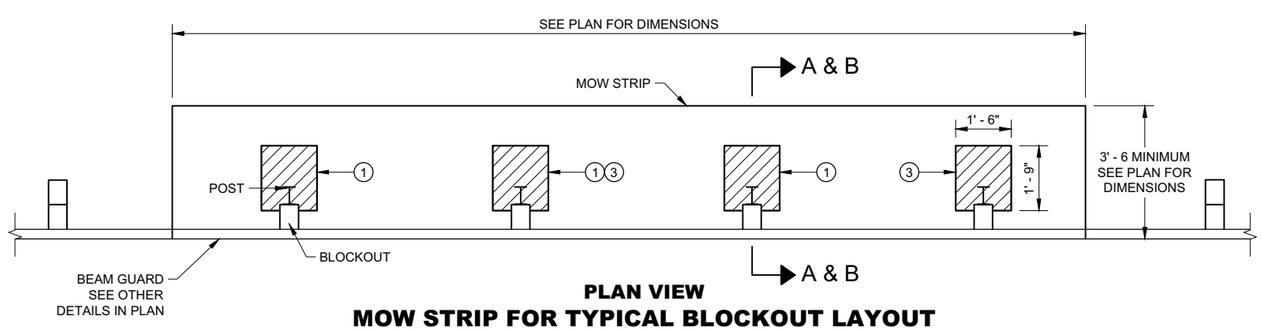
GENERAL NOTES

ONLY USE STEEL POSTS IN CONCRETE AND ASPHALT MOW STRIPS.

1. CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.
2. DEPTH OF MOW STRIP:
   ASPHALT - 4"
   CONCRETE - 4"
   EMULSIFIED ASPHALT - 1" OR LESS
3. FOR EMULSIFIED ASPHALT, MOW STRIP STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS)

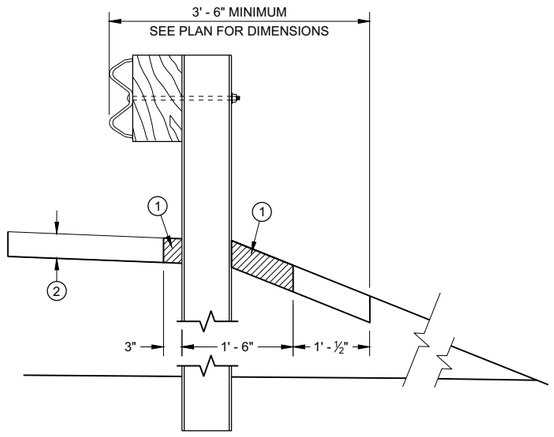


SECTION A - A

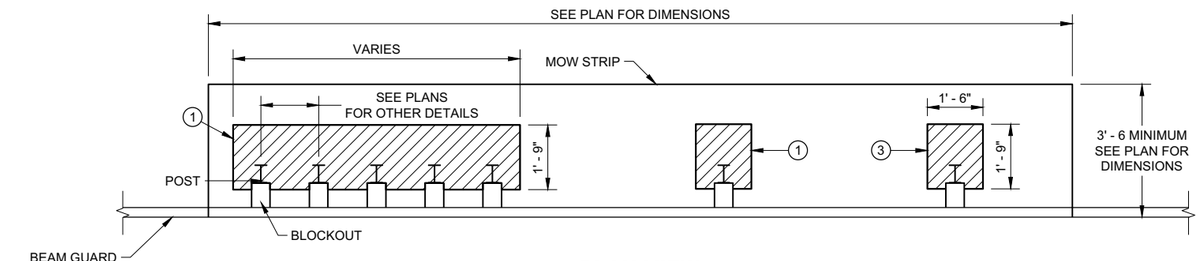


PLAN VIEW

MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT

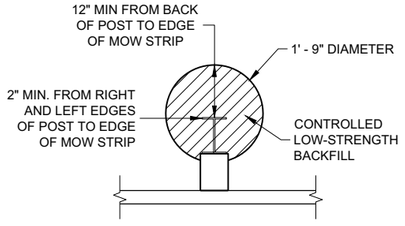


SECTION B - B

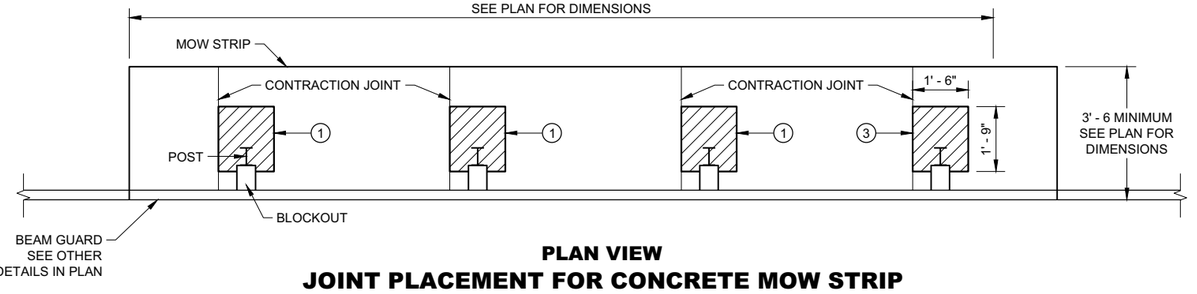


PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



ALTERNATIVE HMA MOW STRIP DESIGN



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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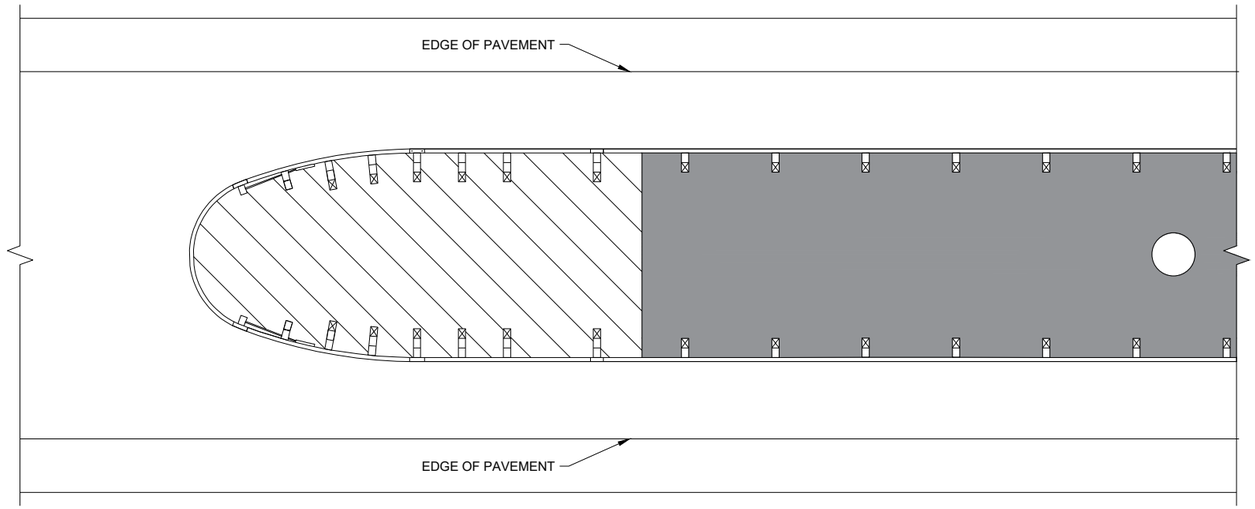
LEGEND

CONCRETE, ASPHALT, OR EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

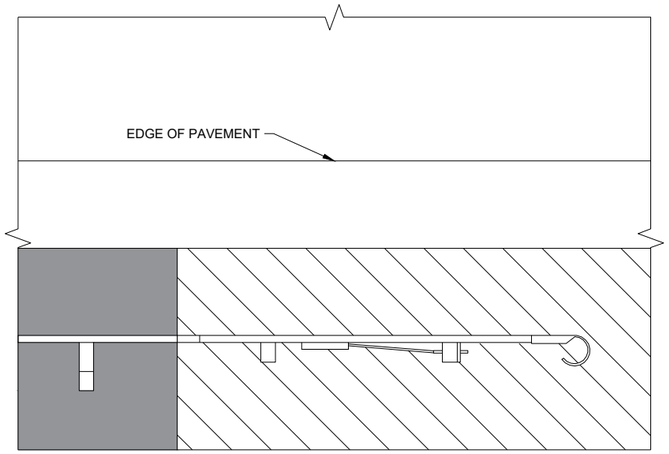
EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

GENERAL NOTES

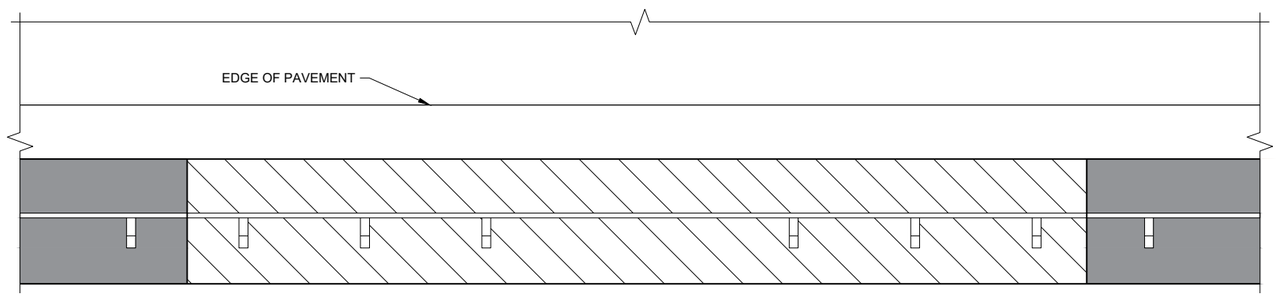
EXISTING THRIE BEAM BULLNOSES MAY HAVE WOOD POSTS. NEW THRIE BEAM BULLNOSE WILL HAVE STEEL POSTS.



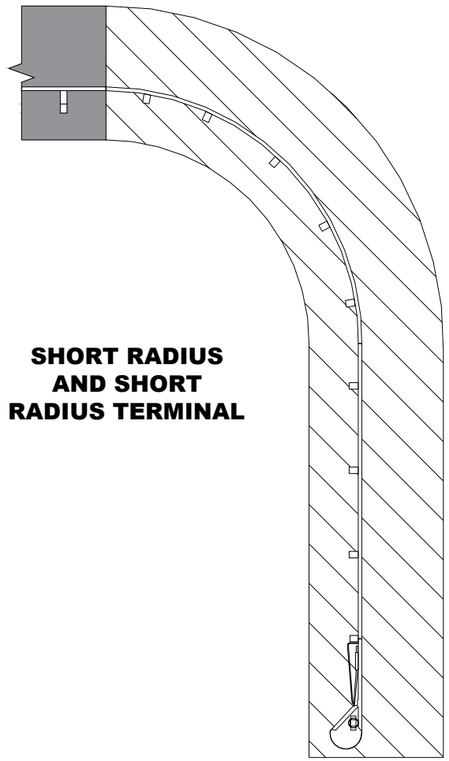
THRIE BEAM BULLNOSE



TYPE 2 TERMINAL



LONG - SPAN



SHORT RADIUS AND SHORT RADIUS TERMINAL

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

August 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

605

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SDD 14B28 - 04b

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

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

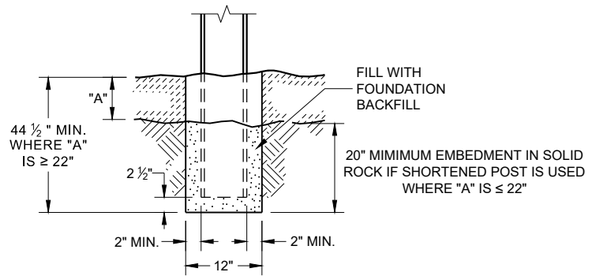
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

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

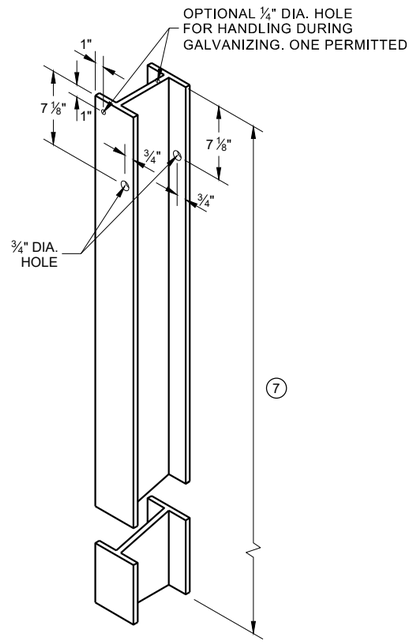
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

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

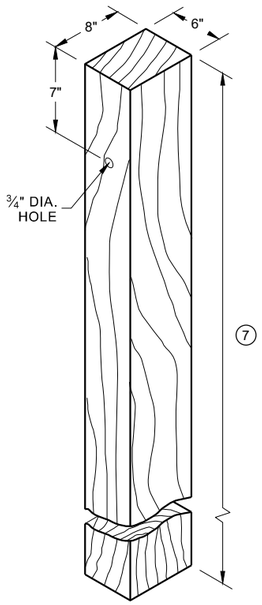
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



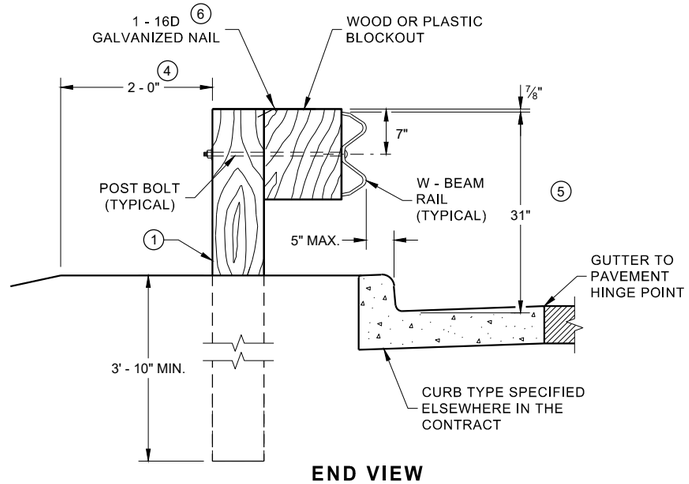
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



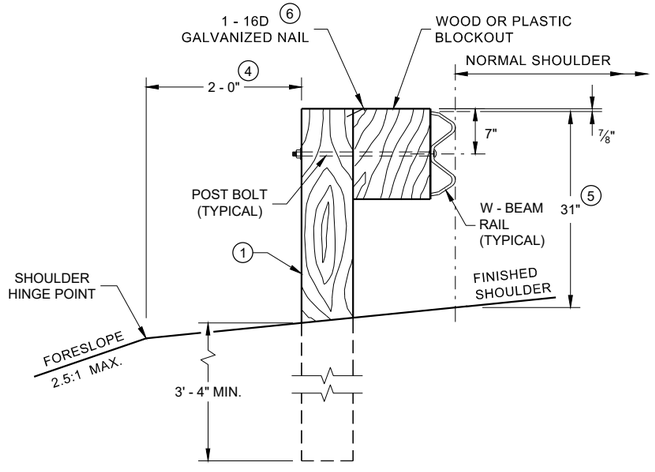
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



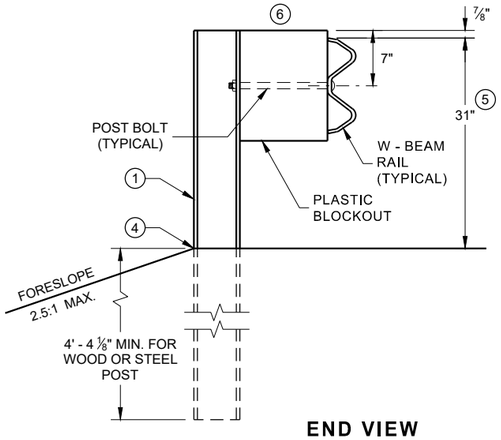
WOOD POST (6" X 8") NOMINAL (1)



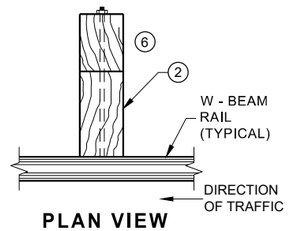
END VIEW
LOCATED ALONG A CURBED ROADWAY



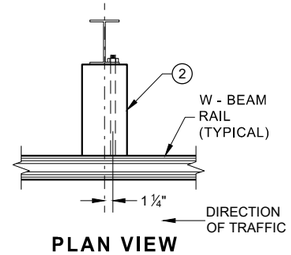
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



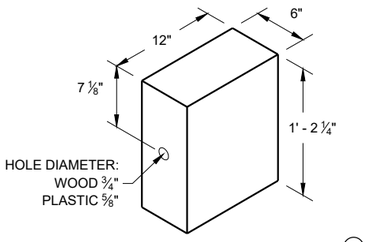
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

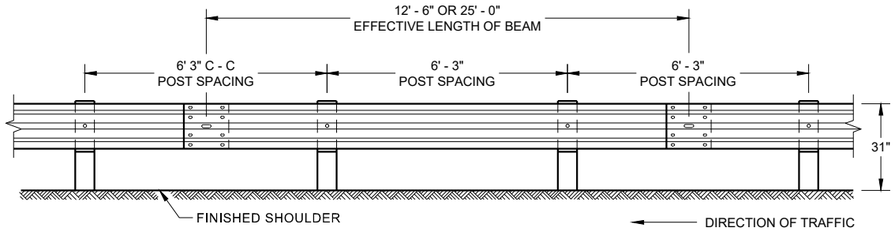
606

6

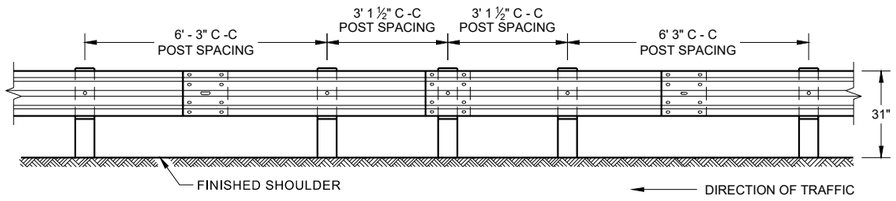
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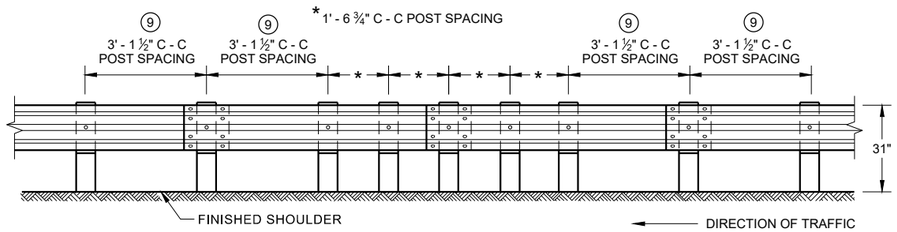
SDD 14B42 - 07a



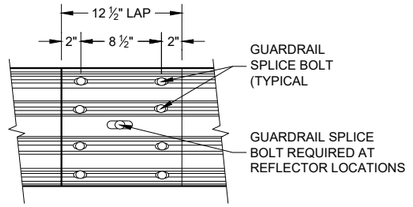
FRONT VIEW
POST SPACING STANDARD INSTALLATION



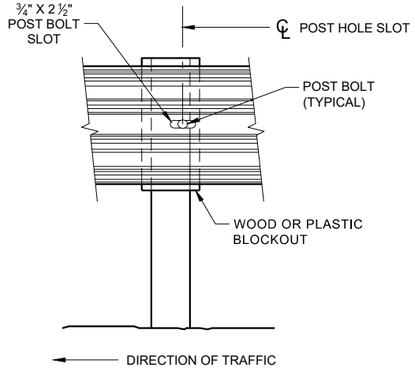
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



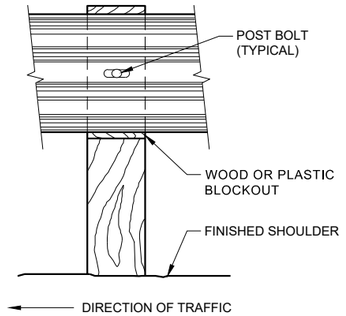
FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE



FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST

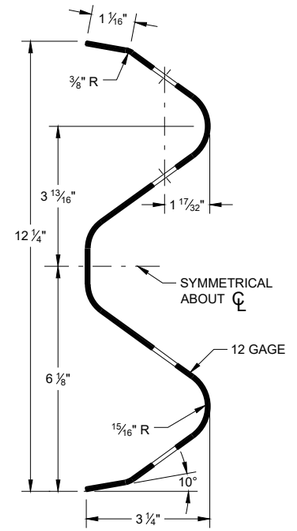
GENERAL NOTES

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

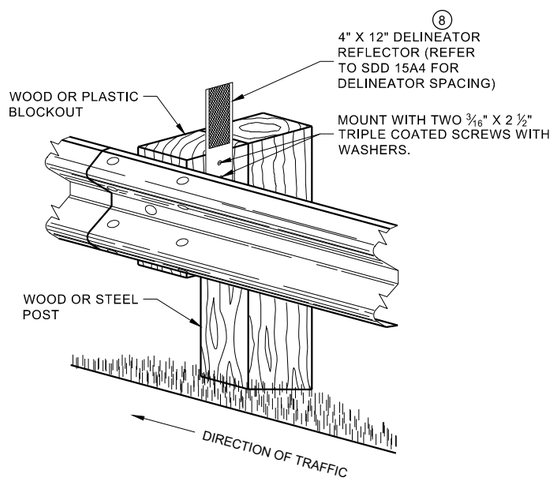
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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

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



SECTION THRU W-BEAM RAIL



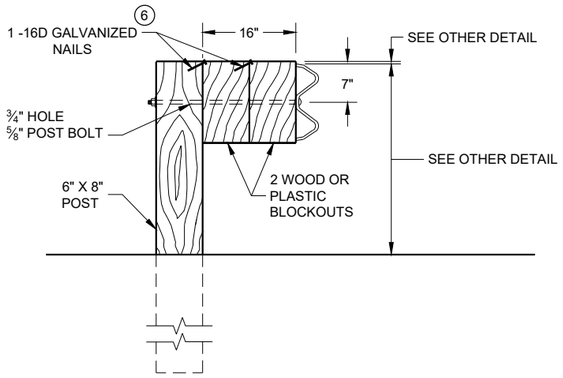
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
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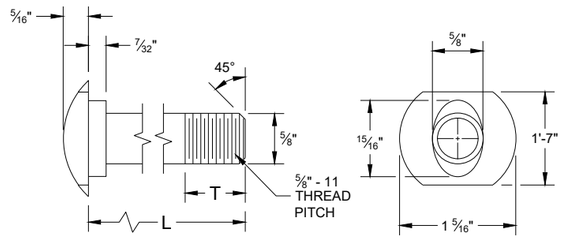


DETAIL FOR 16" BLOCKOUT DEPTH

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

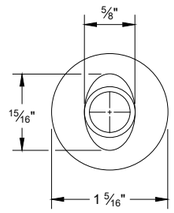
NOTE:

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

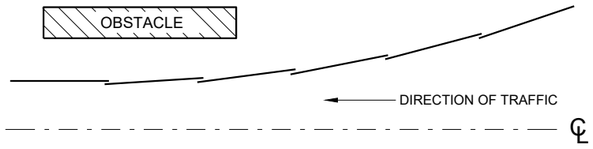


POST BOLT TABLE

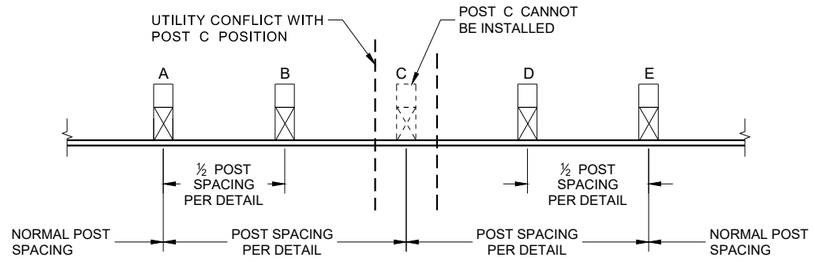
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



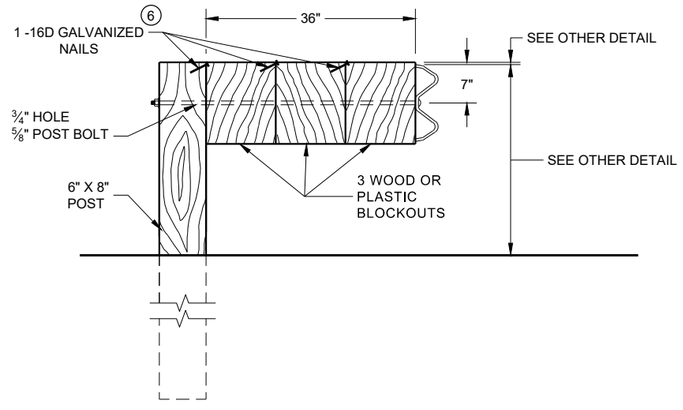
ALTERNATE BOLT HEAD



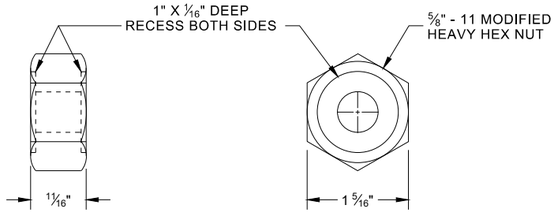
PLAN VIEW
BEAM LAPPING DETAIL



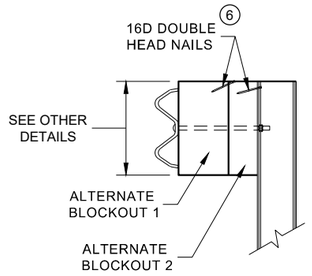
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



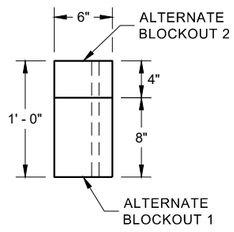
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

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

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

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

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
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GENERAL NOTES

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

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

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

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

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

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

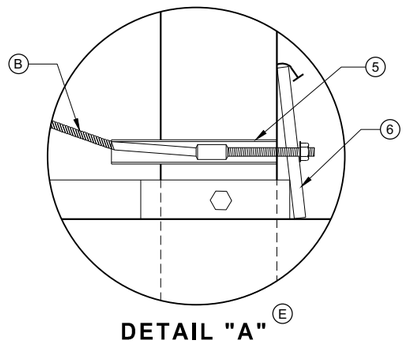
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

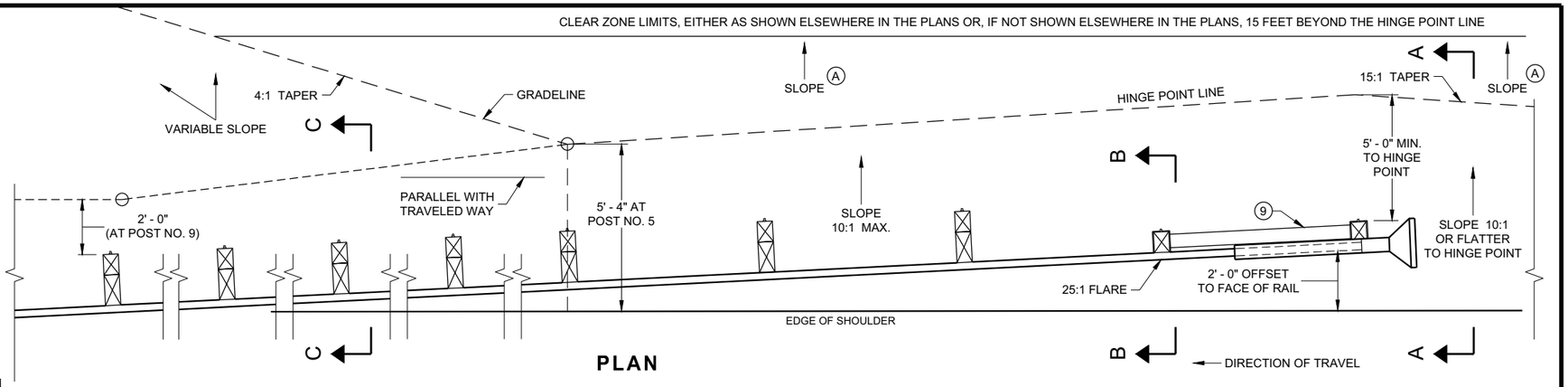
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

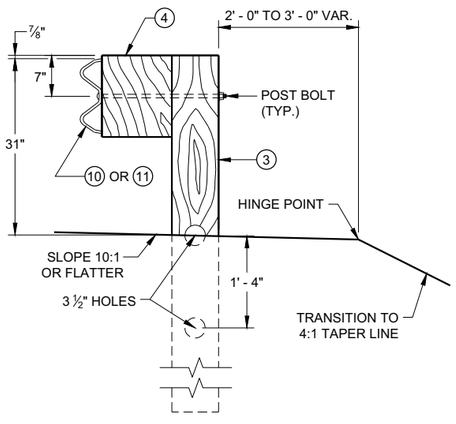
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

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

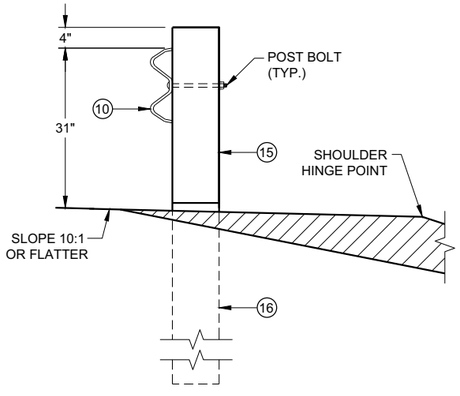


DETAIL "A" (E)

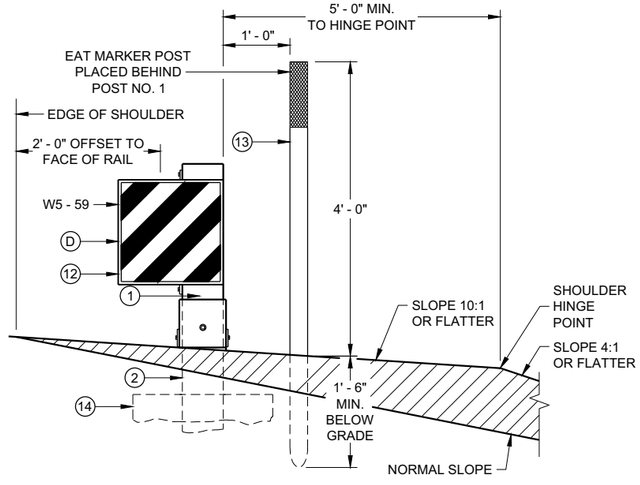




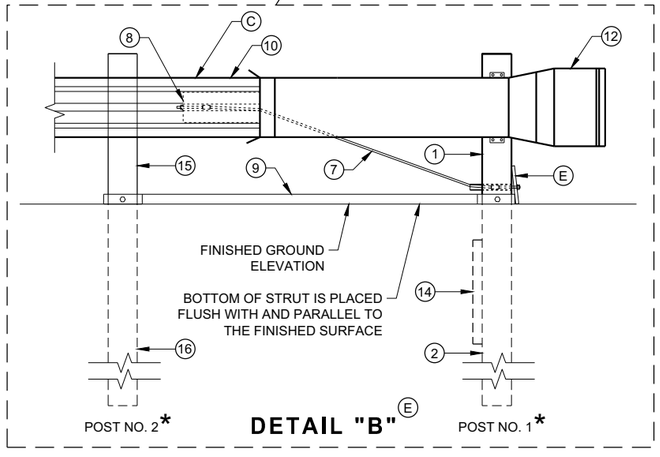
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



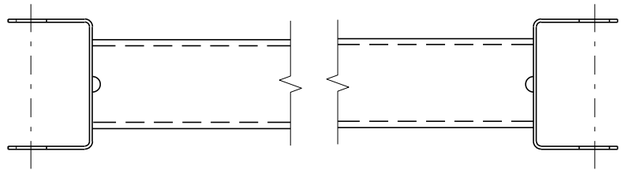
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

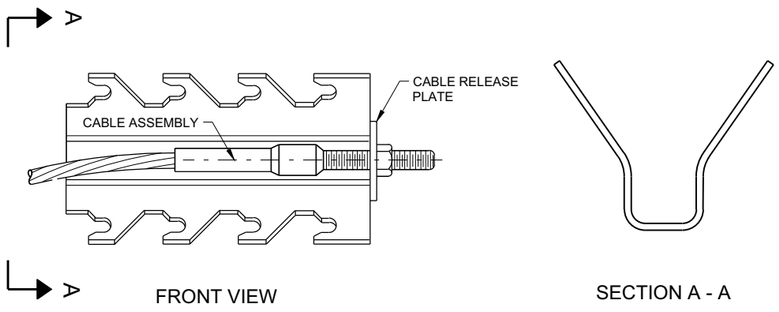
SDD 14B44 - 04a



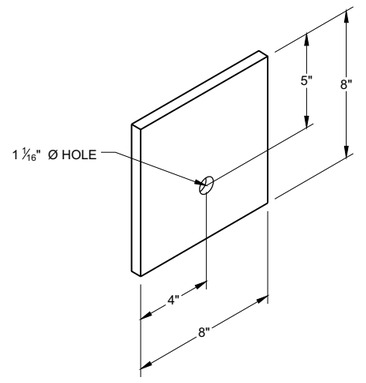
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

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



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

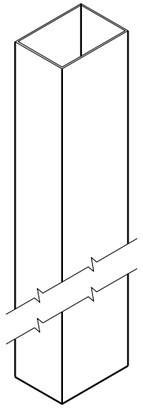
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SDD 14B44 - 04b

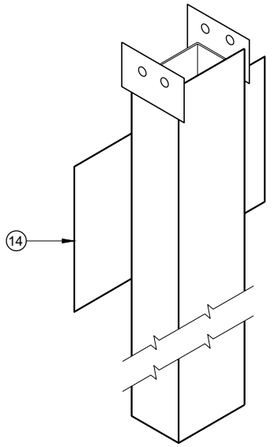
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

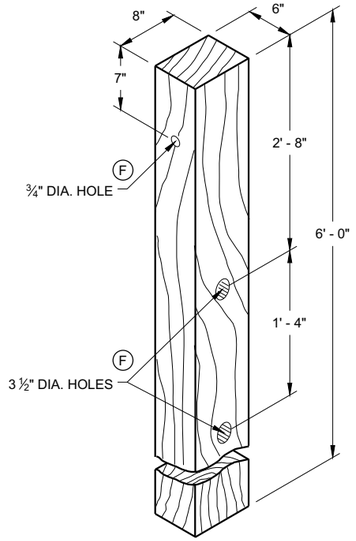
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



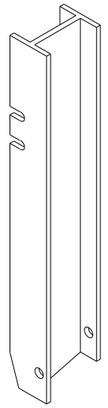
UPPER POST NO. 1 (1) (E)



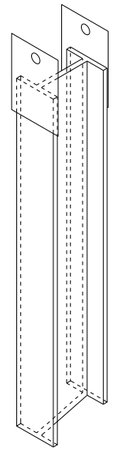
LOWER POST NO. 1 (2) (E)



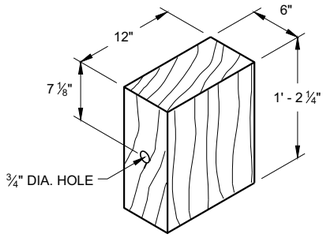
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



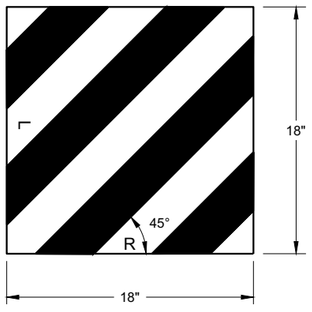
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

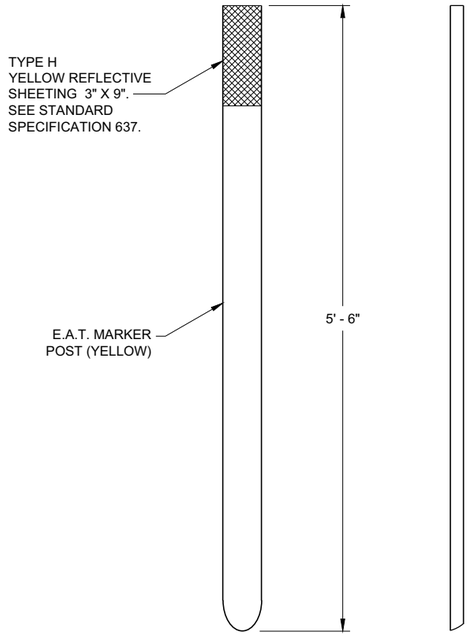


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



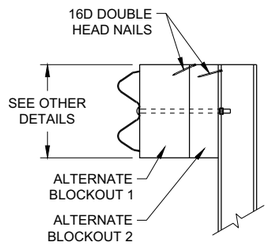
W5 - 59

REFLECTIVE SHEETING DETAIL (E)

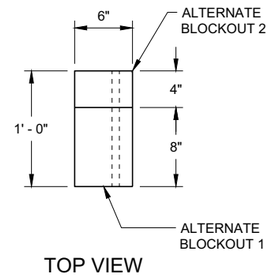


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

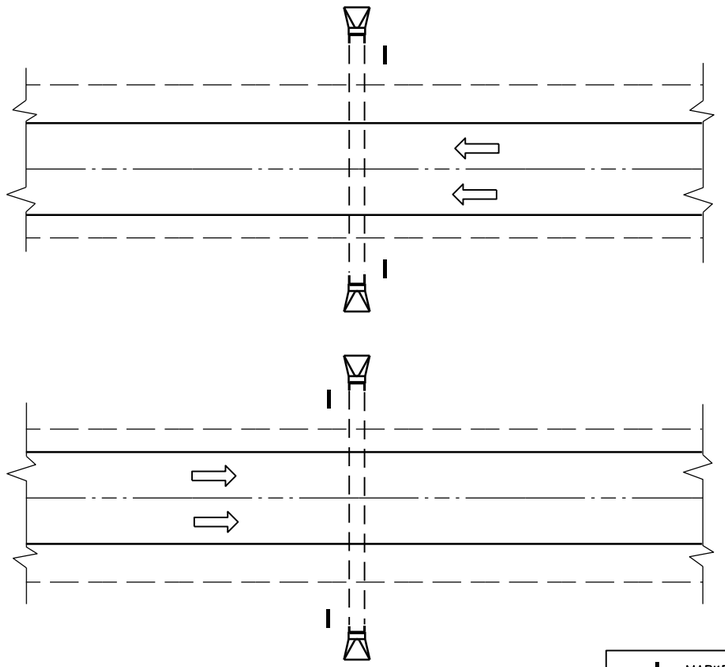
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

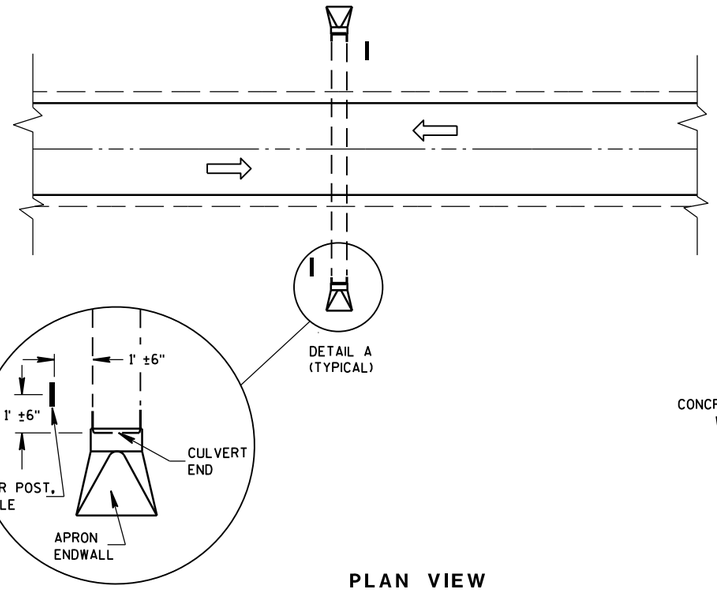
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SDD 14B44 - 04c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

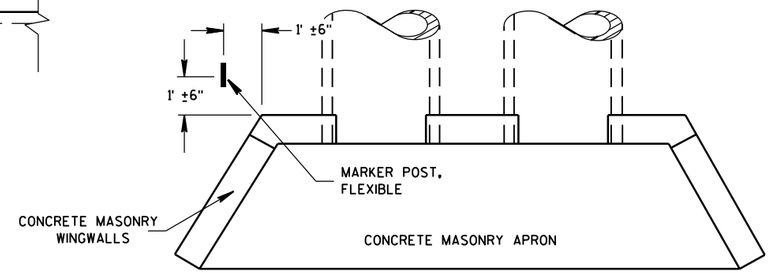
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

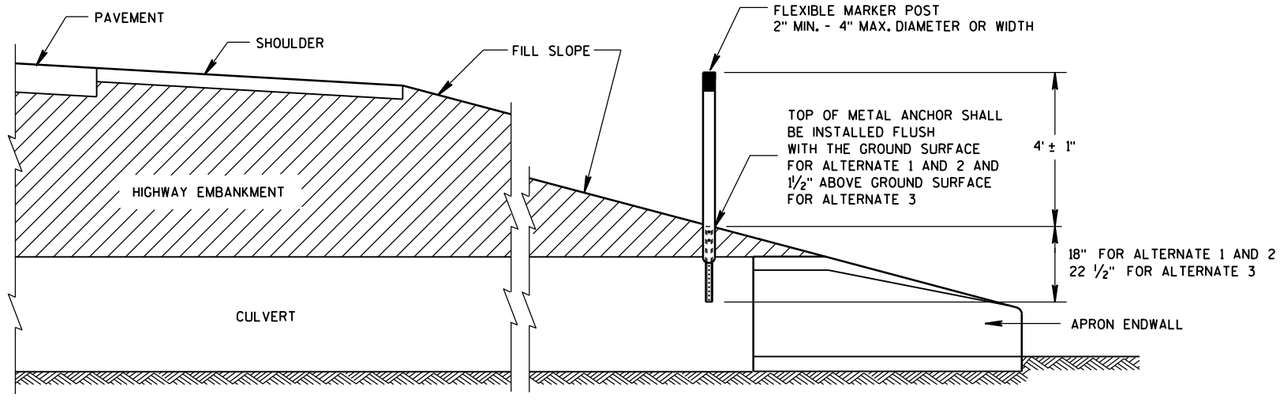
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

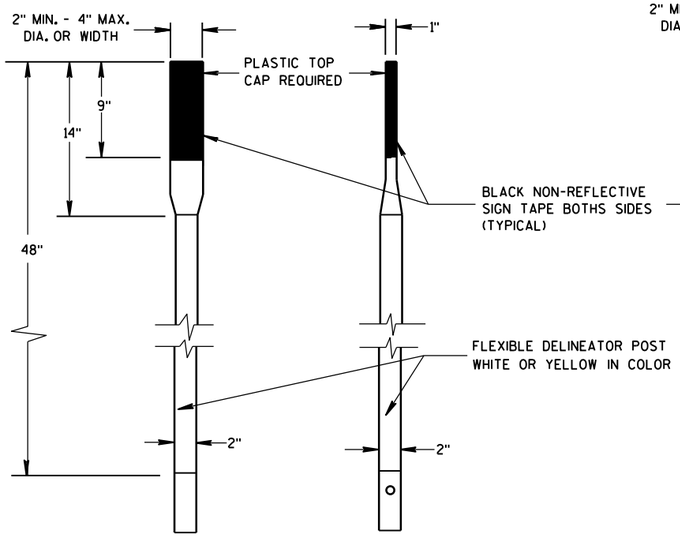
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

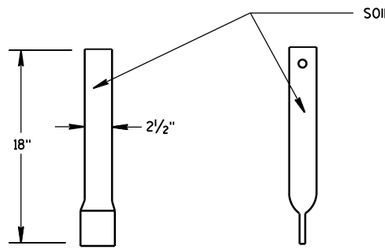
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S.D.D. 15 A 3-2a

6

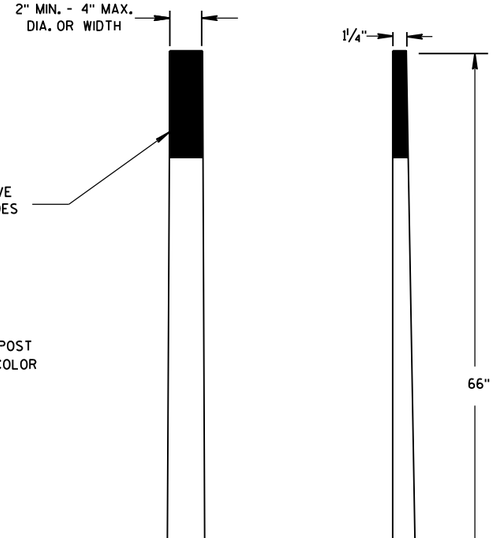
S.D.D. 15 A 3-2a





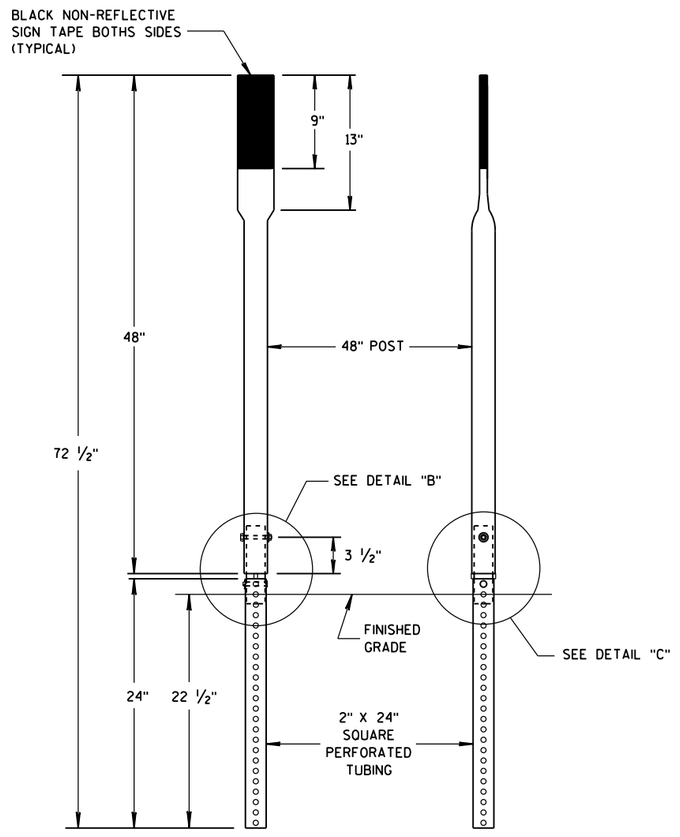
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

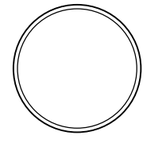
ALTERNATE 2



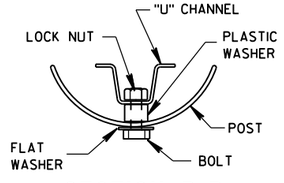
FRONT VIEW SIDE VIEW

ALTERNATE 3

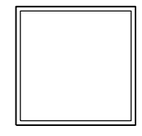
FLEXIBLE MARKER POSTS



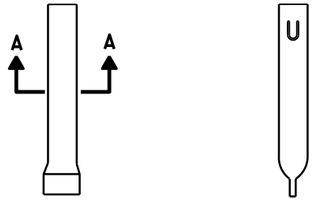
SECTION A-A



SECTION B-B

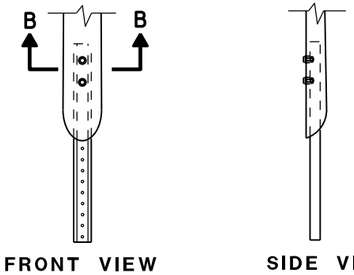


SECTION C-C



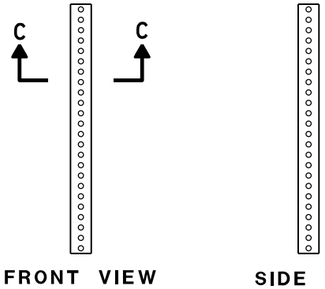
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

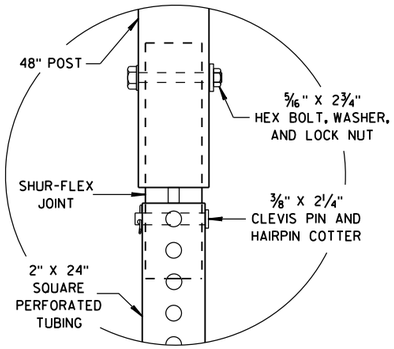
ALTERNATE 2



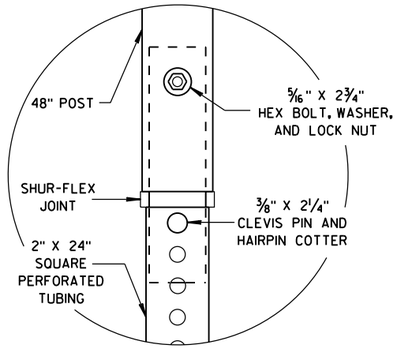
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

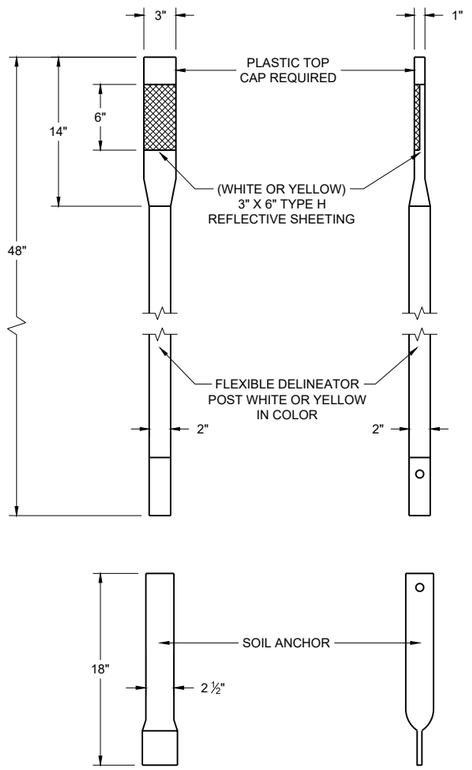
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

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

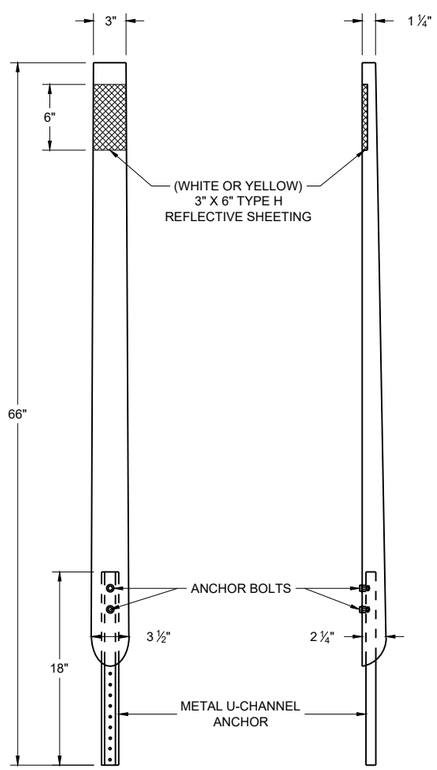
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S.D.D. 15 A 3-2b



FRONT VIEW SIDE VIEW

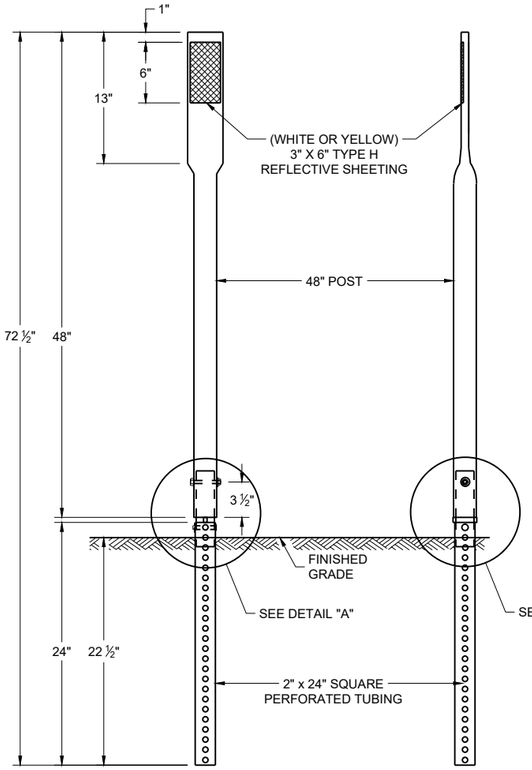
ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2

FLEXIBLE DELINEATOR POSTS

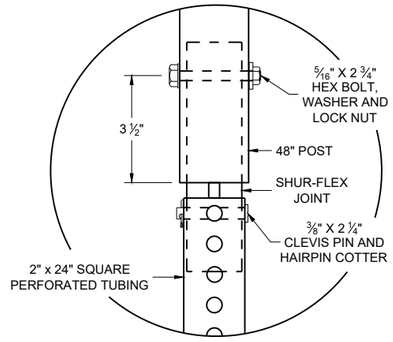


FRONT VIEW SIDE VIEW

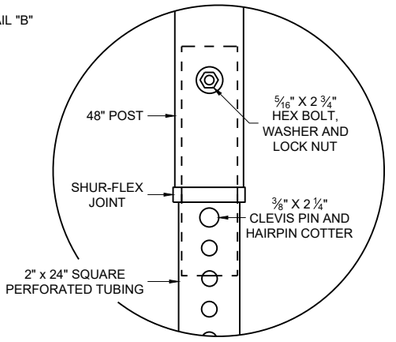
ALTERNATE 3

GENERAL NOTES

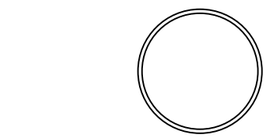
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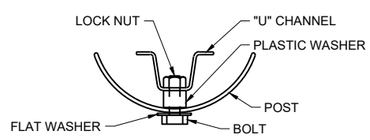


DETAIL A

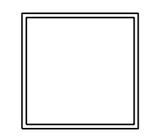


DETAIL B





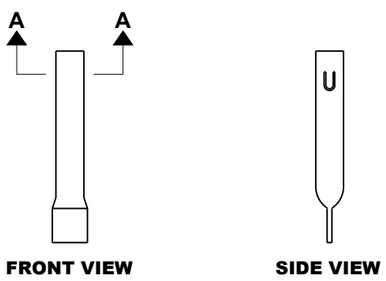
SECTION B - B



REFLECTOR SPACING TABLE

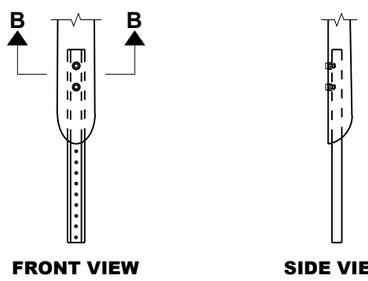
REFLECTOR SPACING	LOCATION
* 100' C-C	RAMPS
400' C-C	MAINLINE

* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER



FRONT VIEW SIDE VIEW

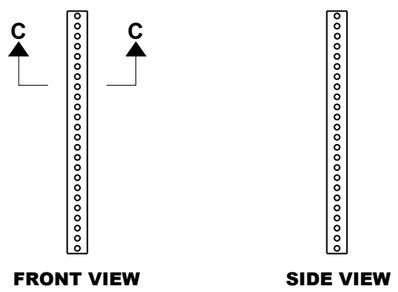
ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2

FLEXIBLE MARKER POST ANCHORS



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE DELINEATOR POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE

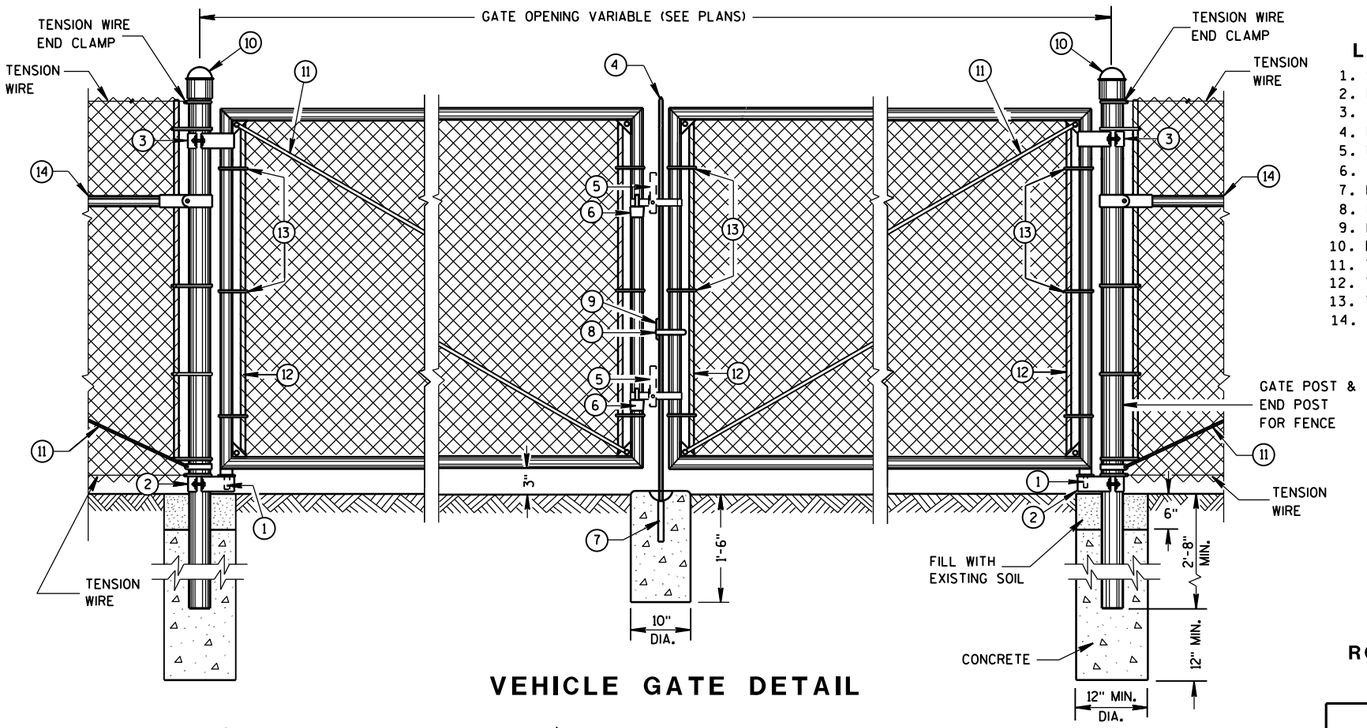
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

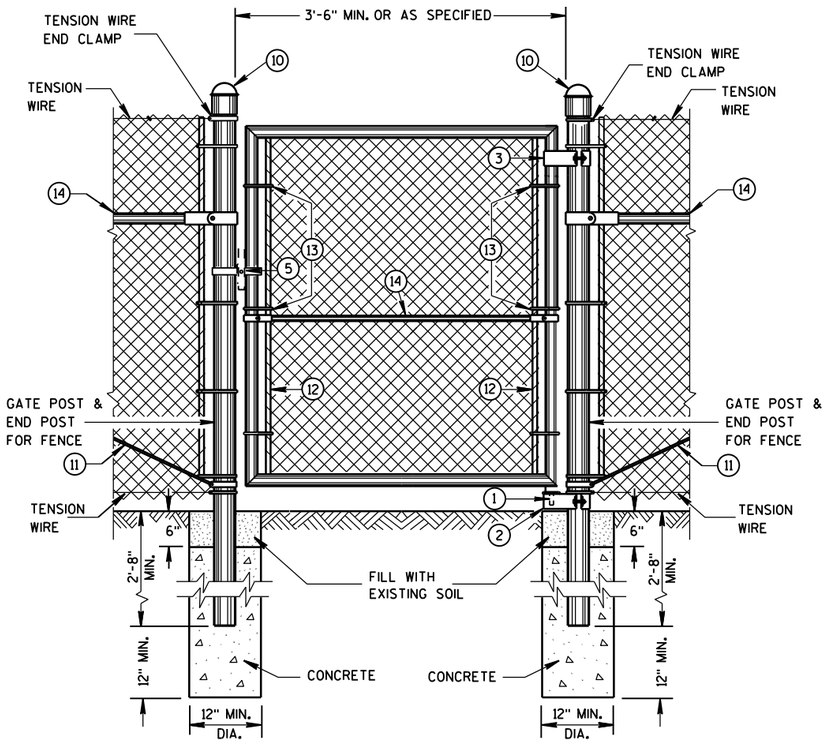
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SDD 15A04-08a

SDD 15A04-08a



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

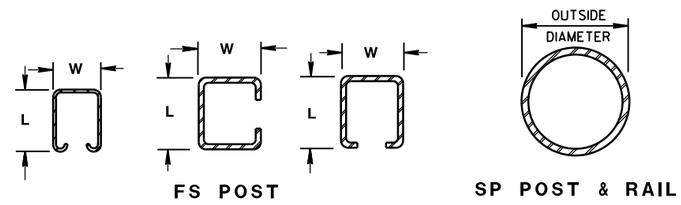
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



FS POST

SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

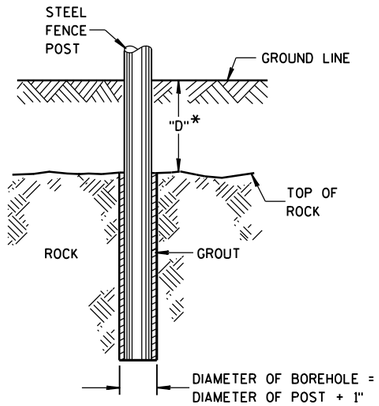
POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

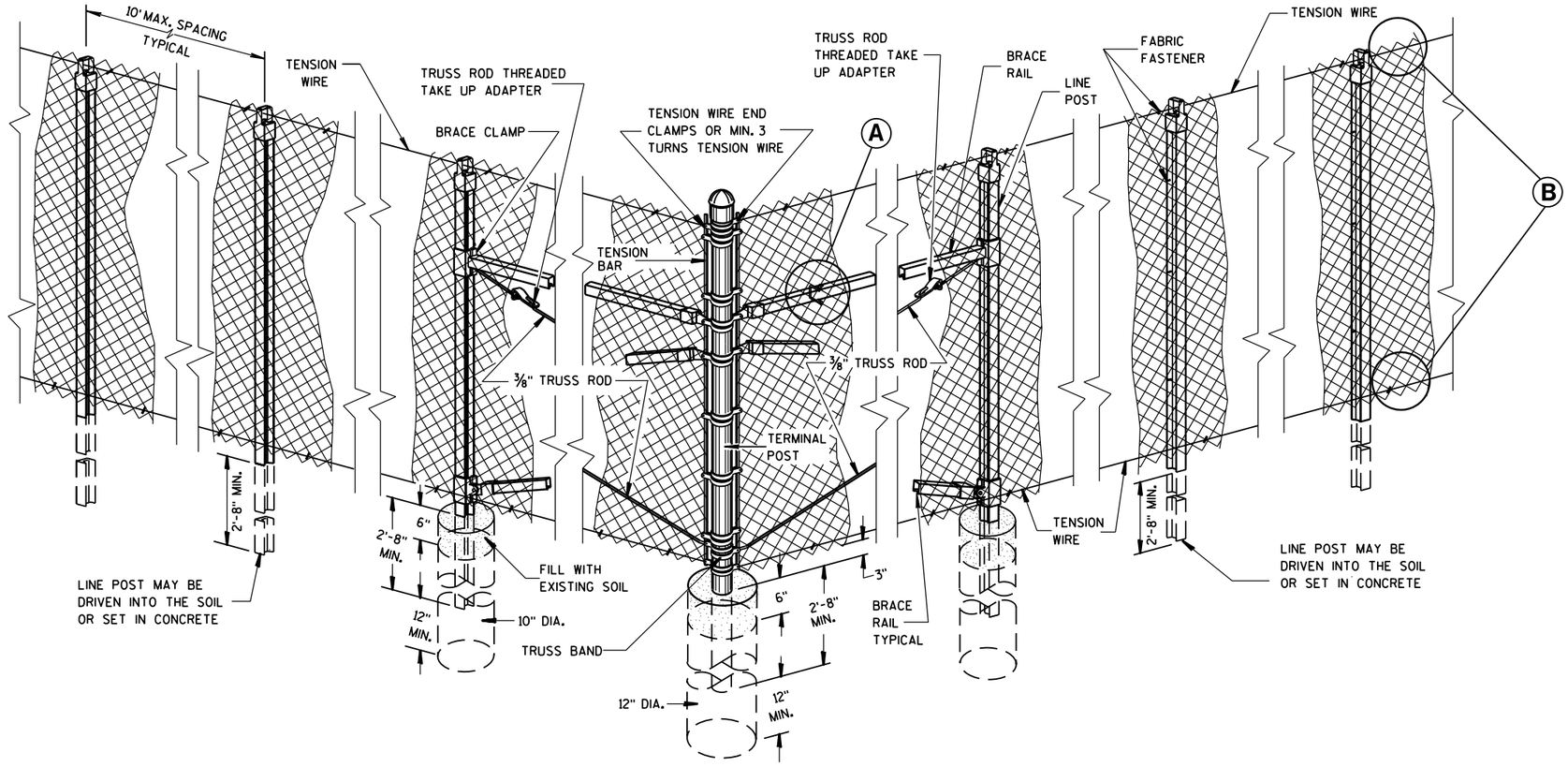
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S.D.D. 15 B 3-15a

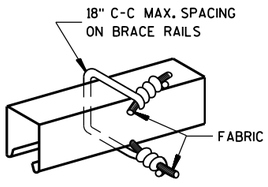


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



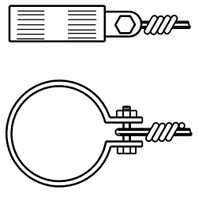
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



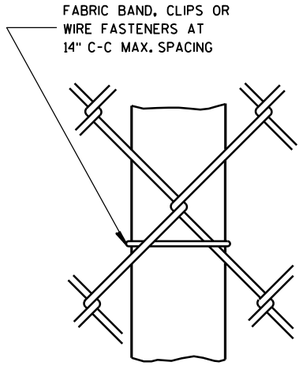
BRACE RAIL

FABRIC FASTENER

Ⓐ



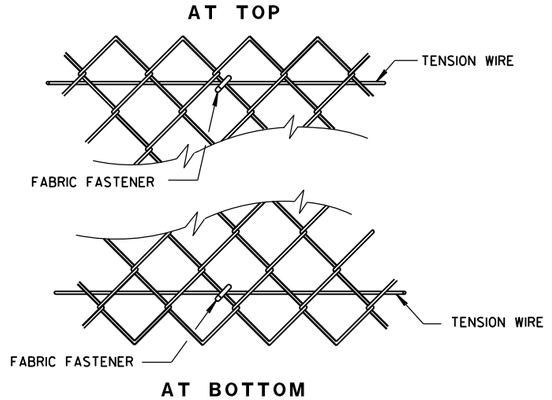
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

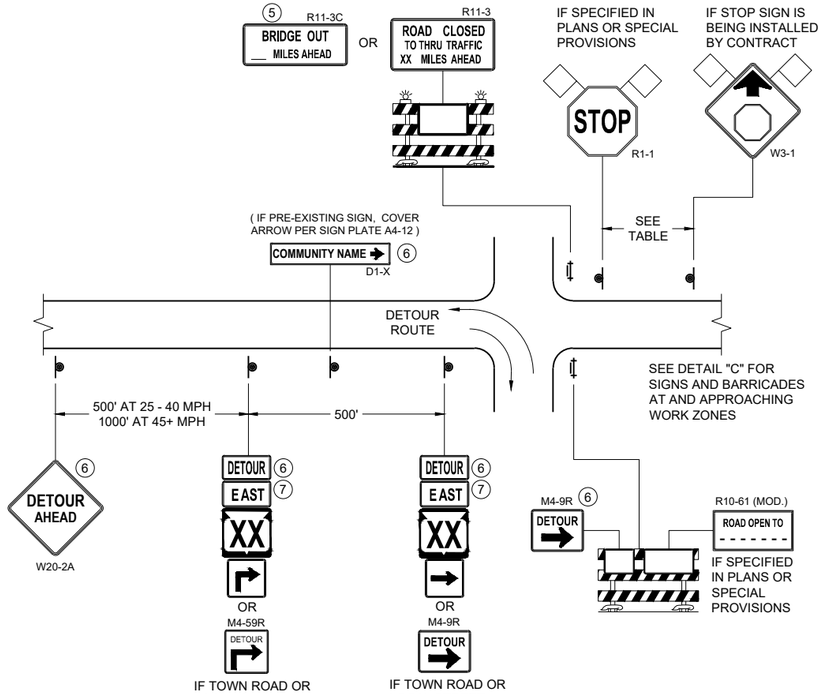
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEB. 2015 DATE
FHWA
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

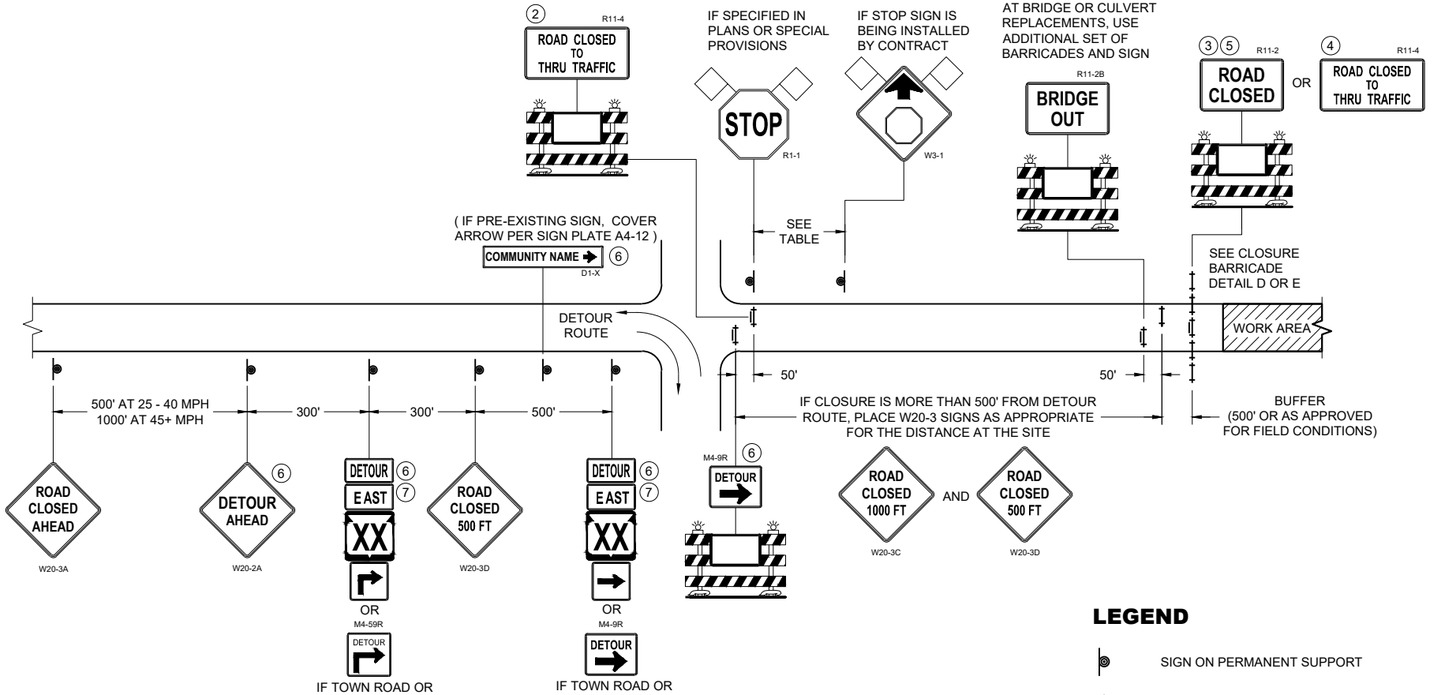
S.D.D. 15 B 3-15b



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

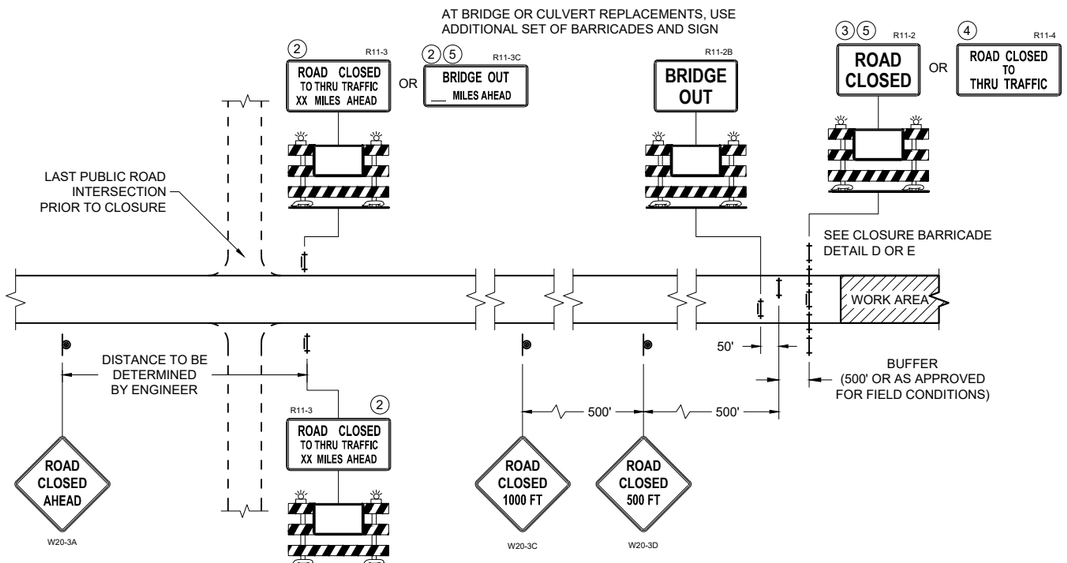
WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



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

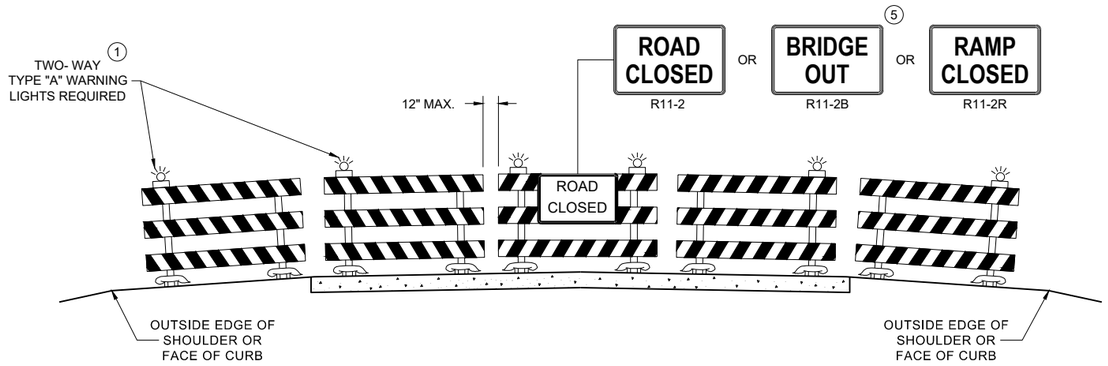
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

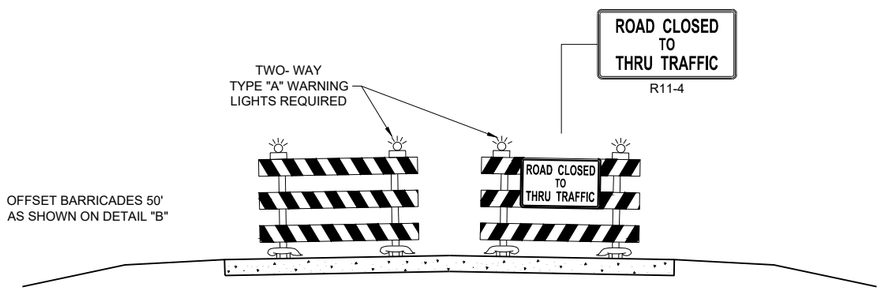
6
SDD 15C02-10a



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.

PARTIAL NUMBERS ON SIGNS SHALL BE DISPLAYED AS A WHOLE NUMBER(AS NEEDED) FOLLOWED BY A FRACTION. SIGNS SHALL NOT DISPLAY NUMBERS IN DECIMAL FORM.

"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"

SIGNS PLACED ON TYPE III BARRICADES THAT ARE SIZES OTHER THAN 48"X30" SHALL HAVE A CORRUGATED POLYPROPYLENE OR POLYETHYLENE PLASTIC SIGN BASE.

(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
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15C02-10b

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

LEGEND

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

GENERAL NOTES

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

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

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

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

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

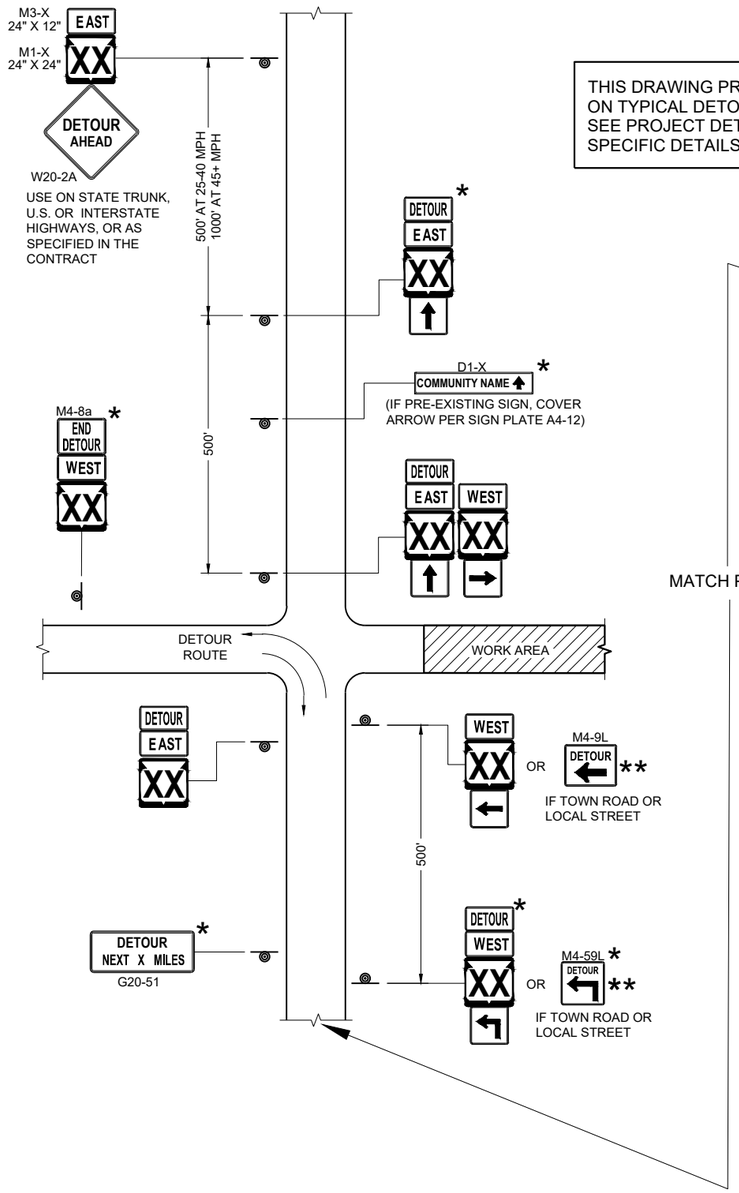
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

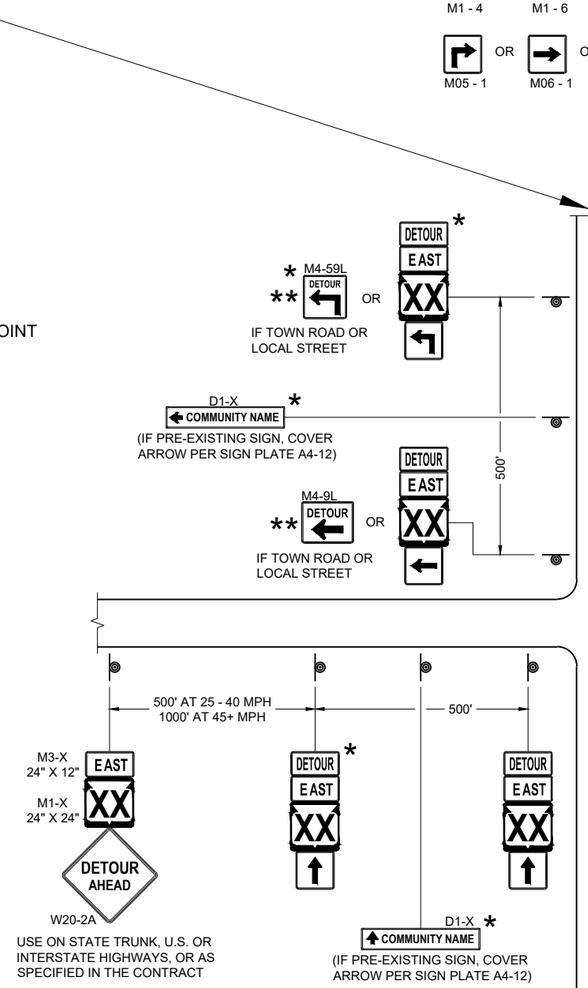
SIGN SIZES SHALL BE AS FOLLOWS:

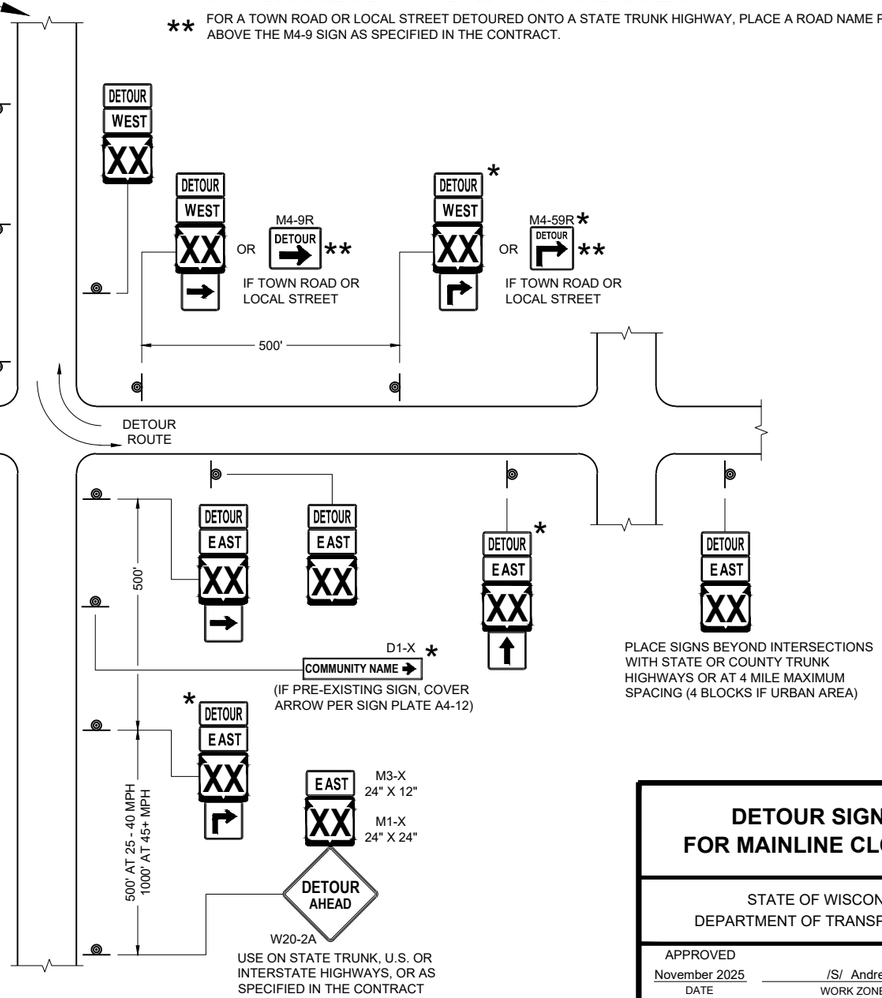
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING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

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

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







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

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

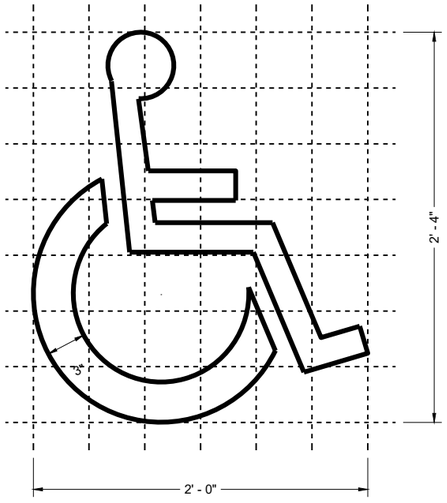
APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

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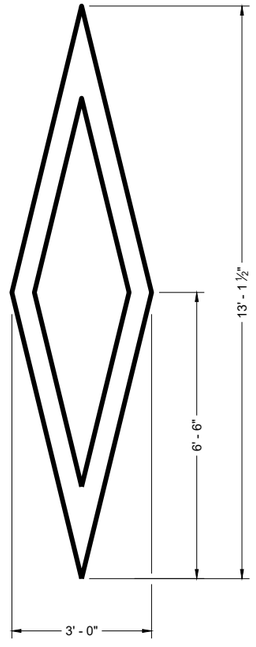
6
SDD 15C02-10c

GENERAL NOTES

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



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

SDD 15C07-16a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

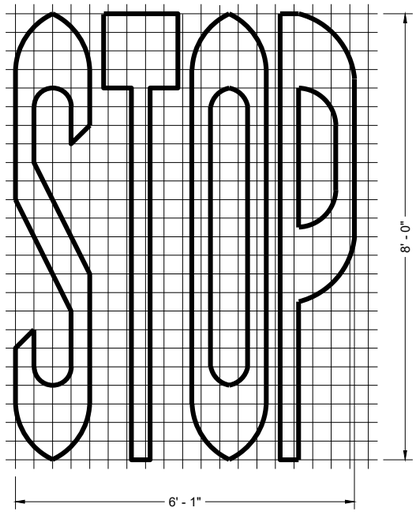
APPROVED
November 2024
DATE

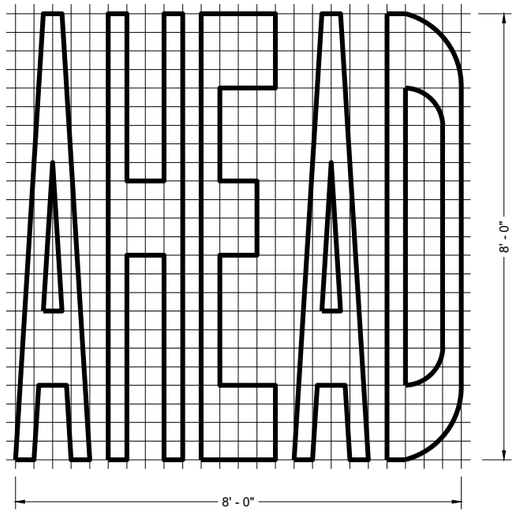
/S/ Jeannie Silver
STATE SIGNING AND MARKING ENGINEER

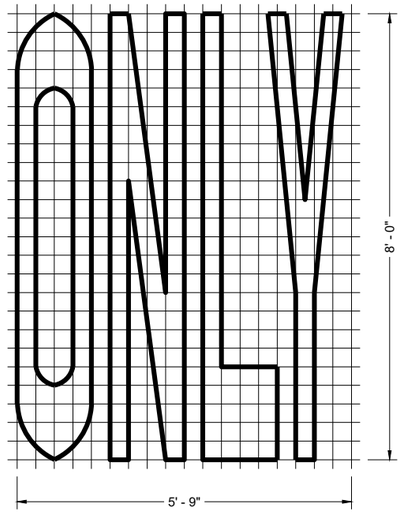
FHWA

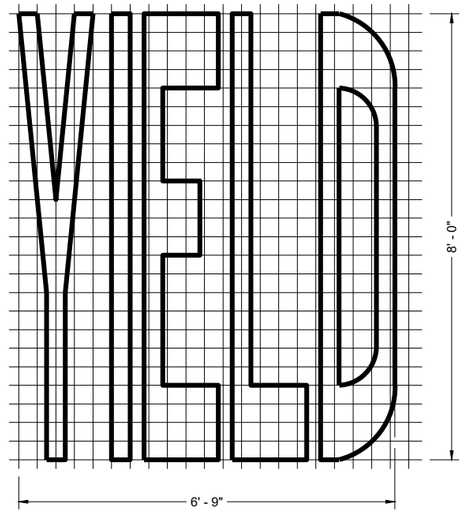
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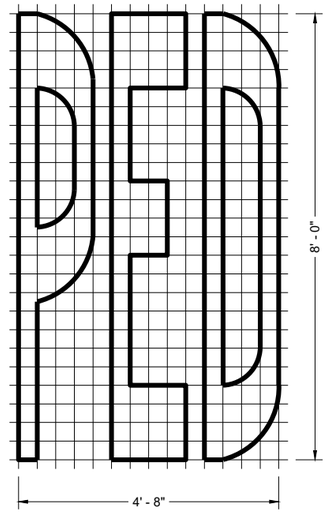
SDD 15C07-16a

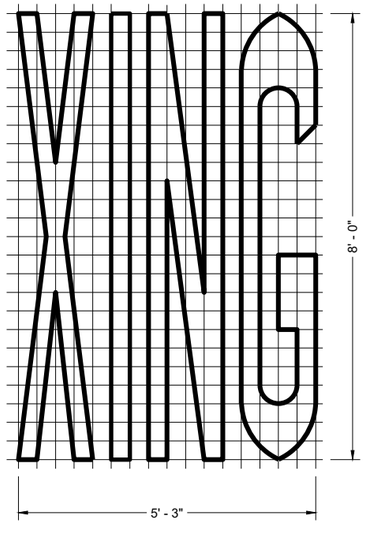


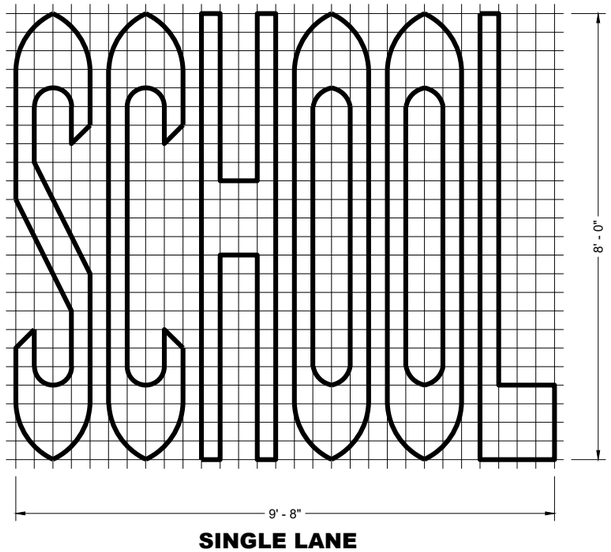




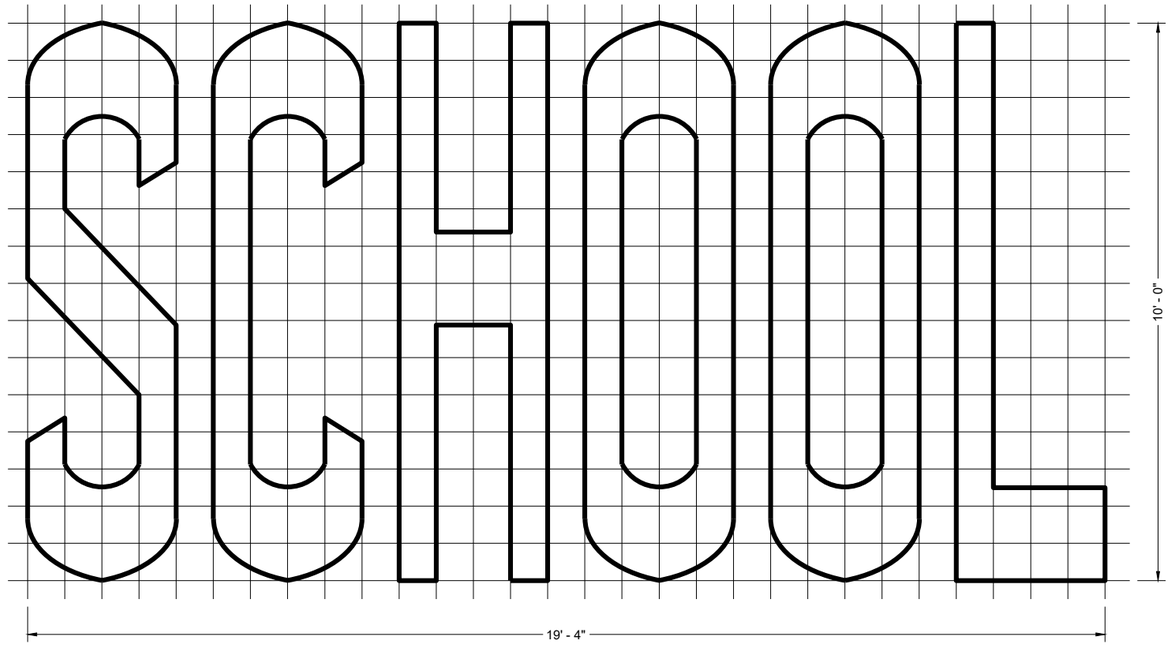








SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MARKING ENGINEER

FHWA

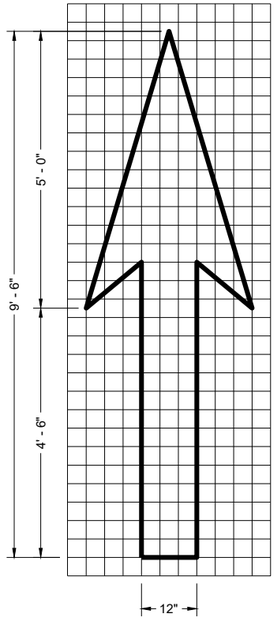
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SDD 15C07-16b

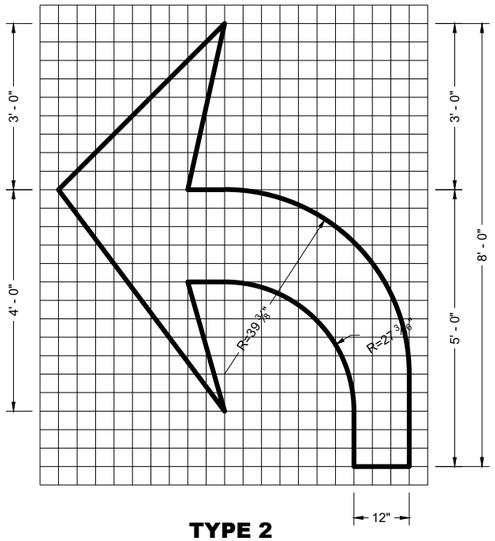
SDD 15C07-16b

GENERAL NOTES

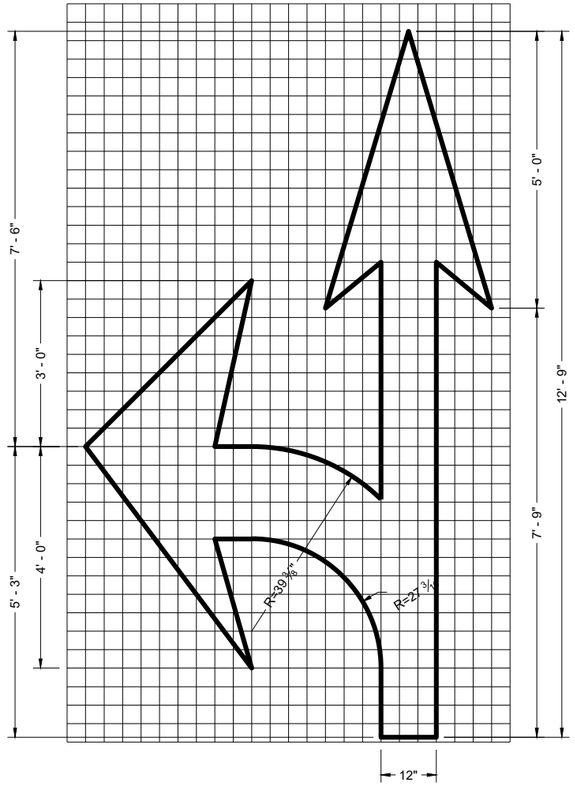
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



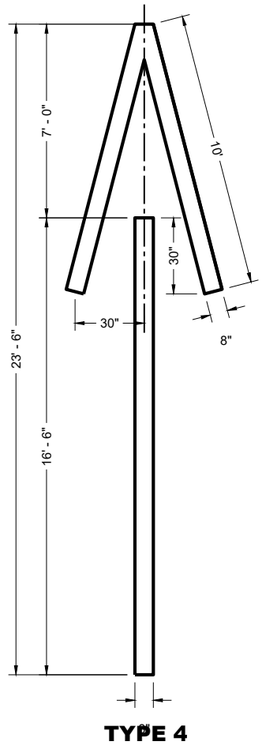
TYPE 1



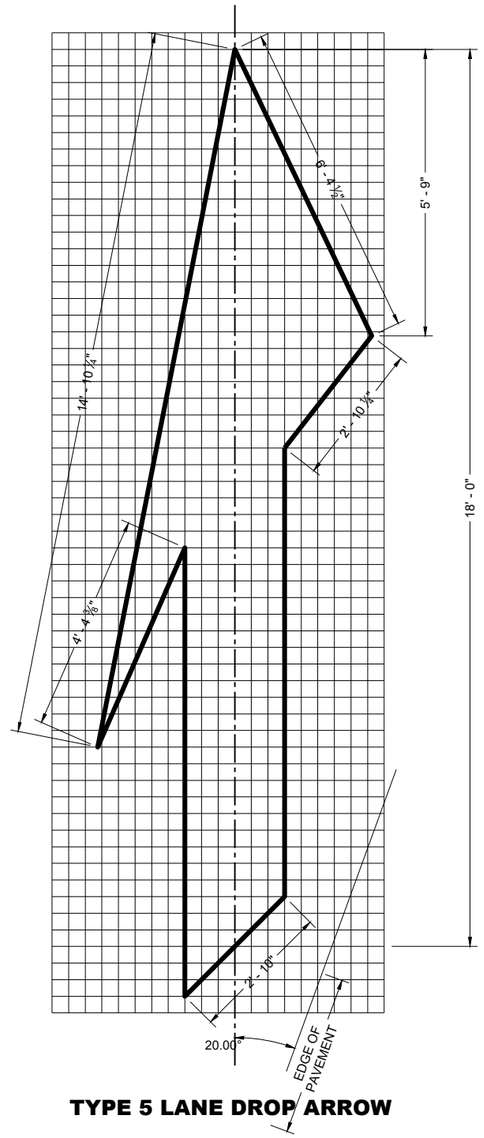
TYPE 2



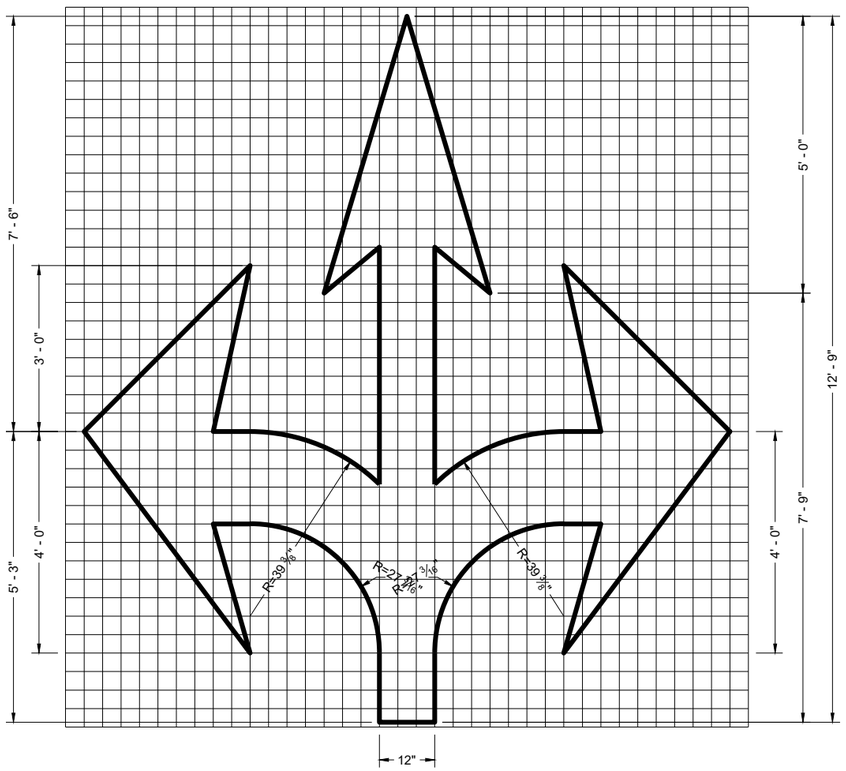
TYPE 3



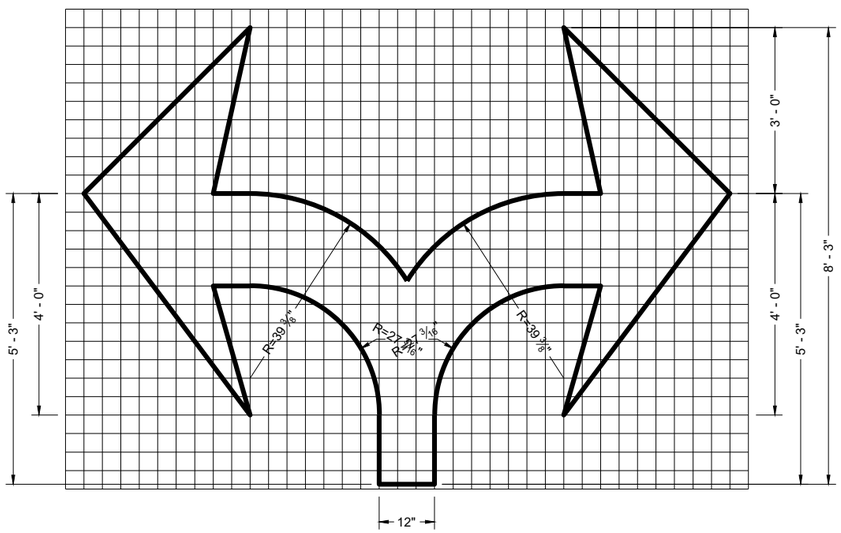
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MARKING ENGINEER

FHWA

SDD 15C07-16c

6

SDD 15C07-16c

GENERAL NOTES

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

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

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

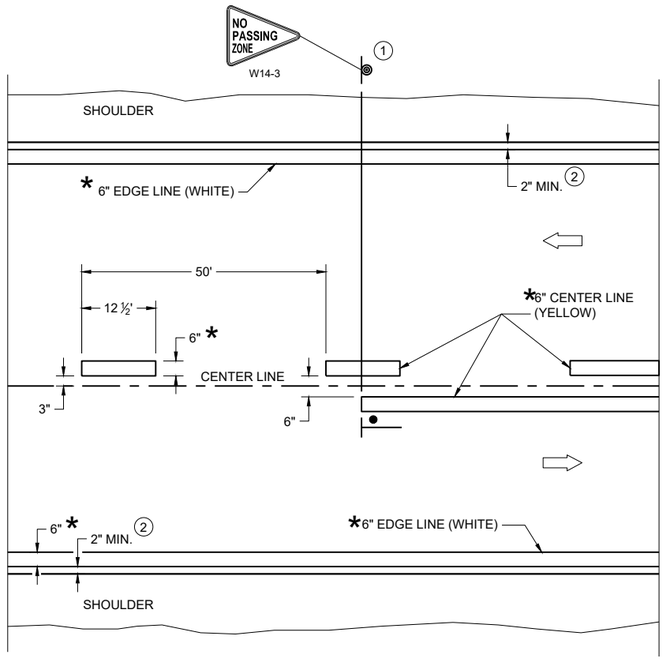
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

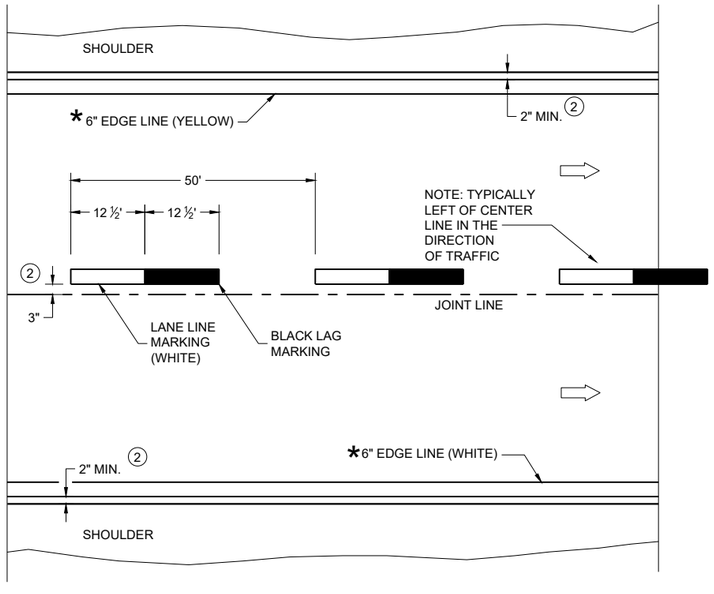
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

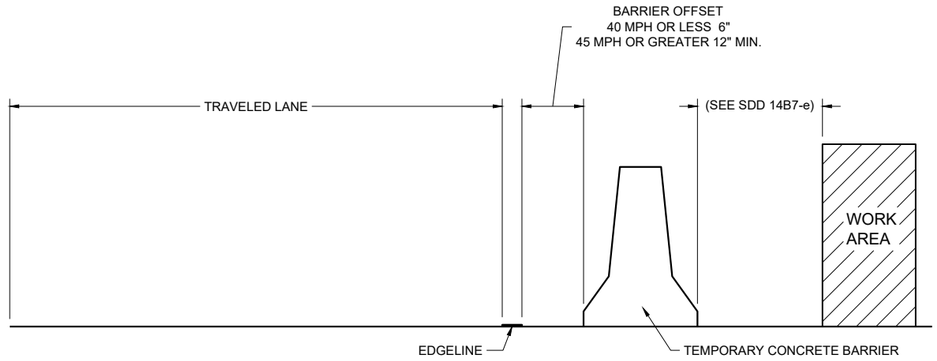
APPROVED

December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

SDD 15C08-24a



TEMPORARY BARRIER OFFSET FROM EDGELINE

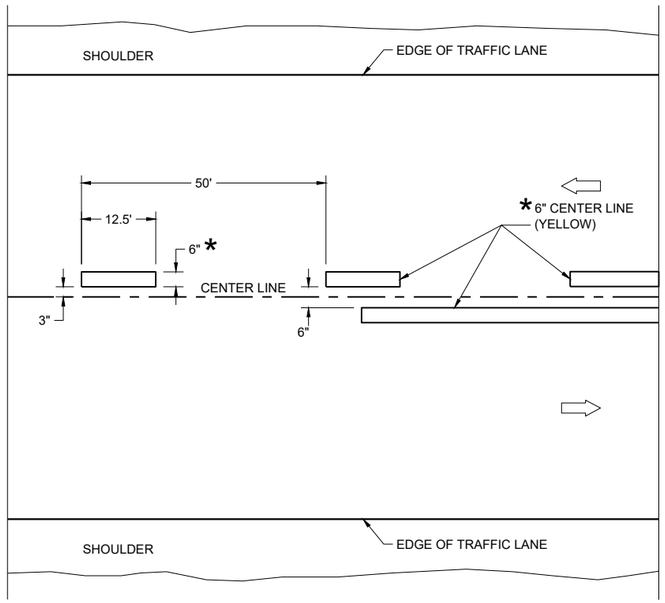
GENERAL NOTES

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

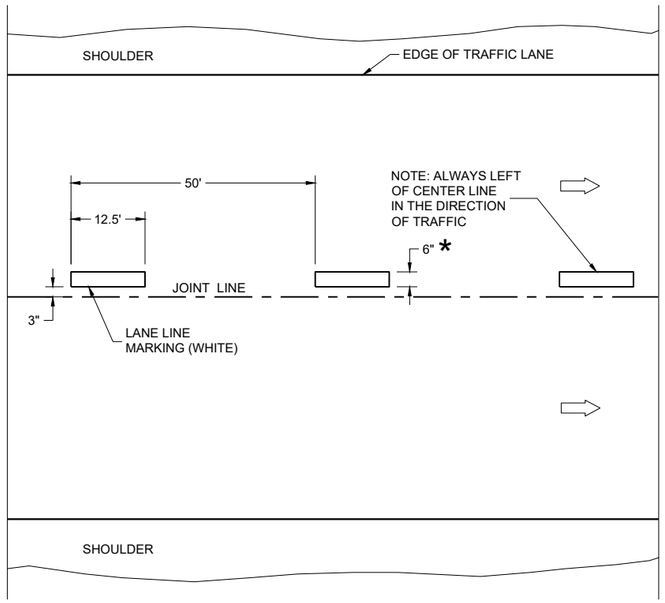
LEGEND

⇨ DIRECTION OF TRAFFIC

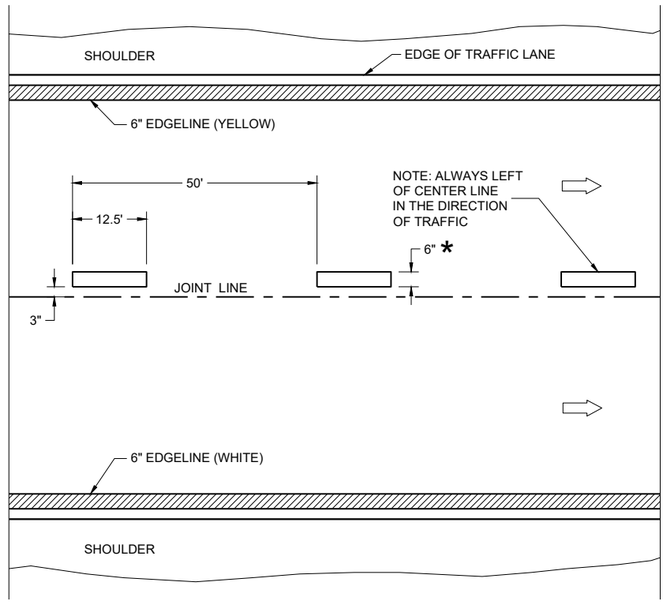
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA

6

SDD 15C08-24b

6

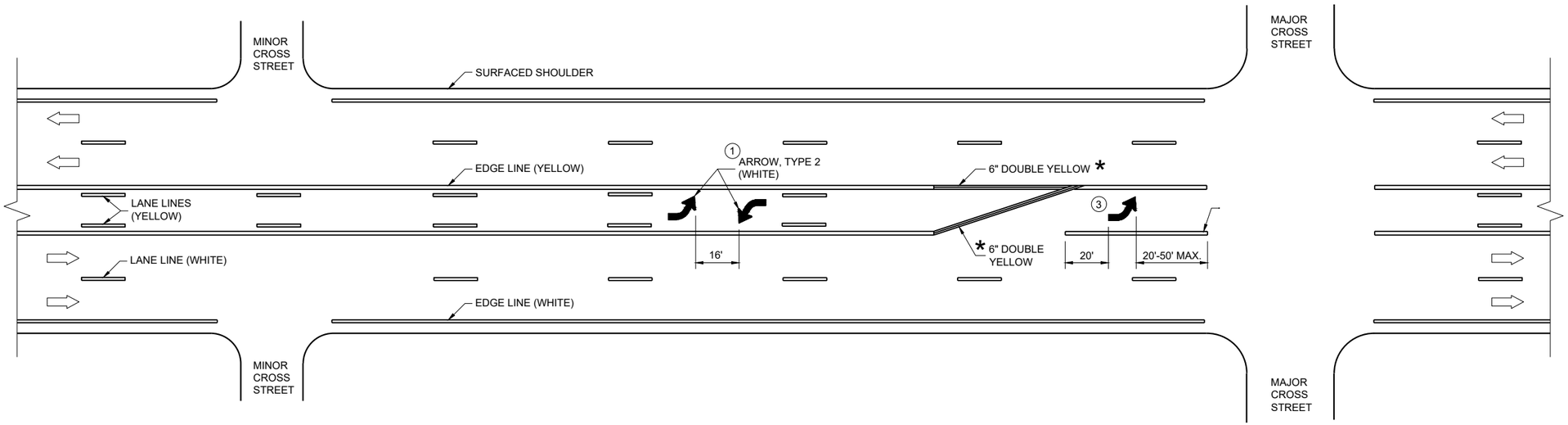
SDD 15C08-24b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



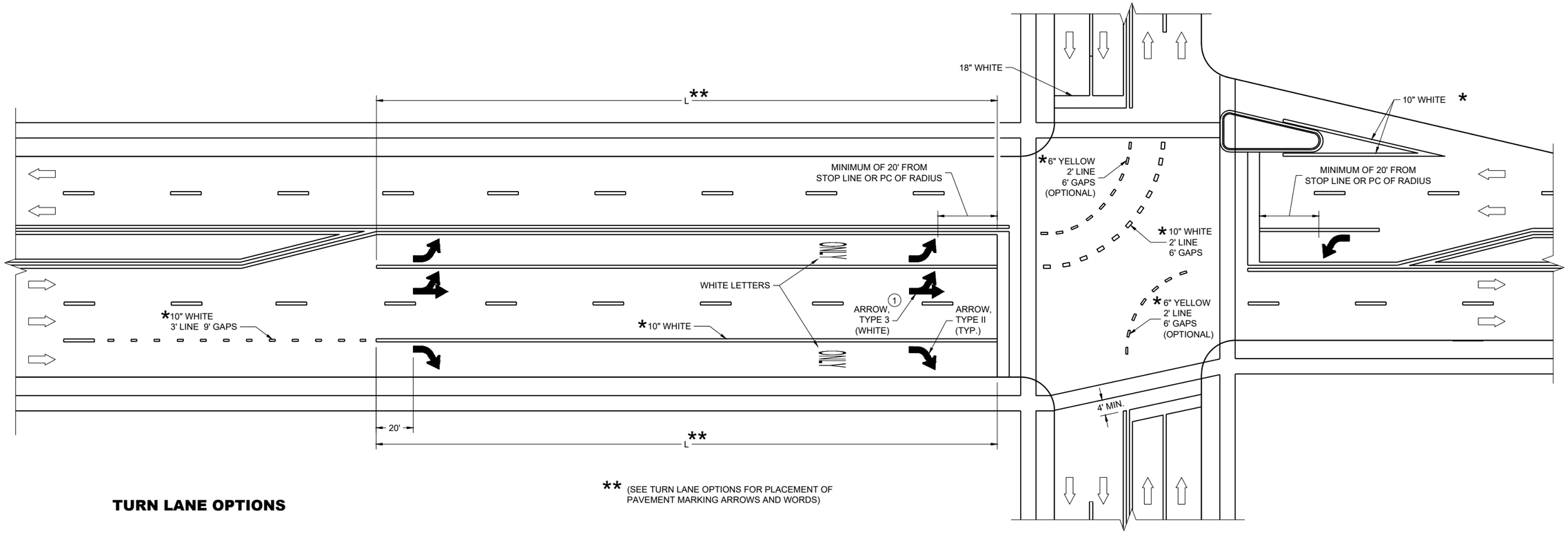
TWO WAY LEFT TURN LANE

6

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

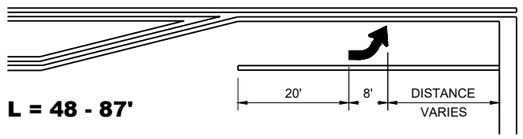
SDD 15C08-24c



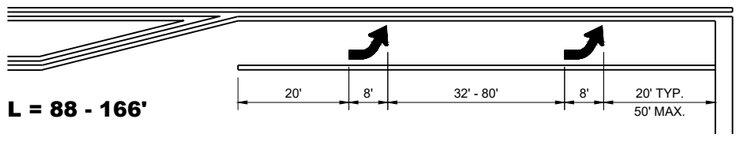
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

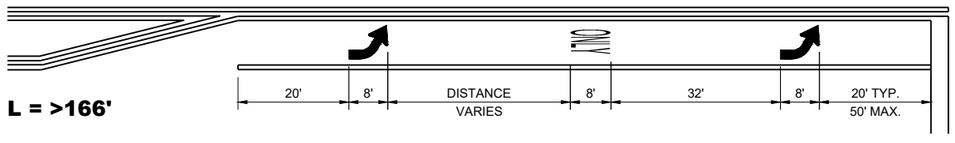
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

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

DIRECTION OF TRAFFIC

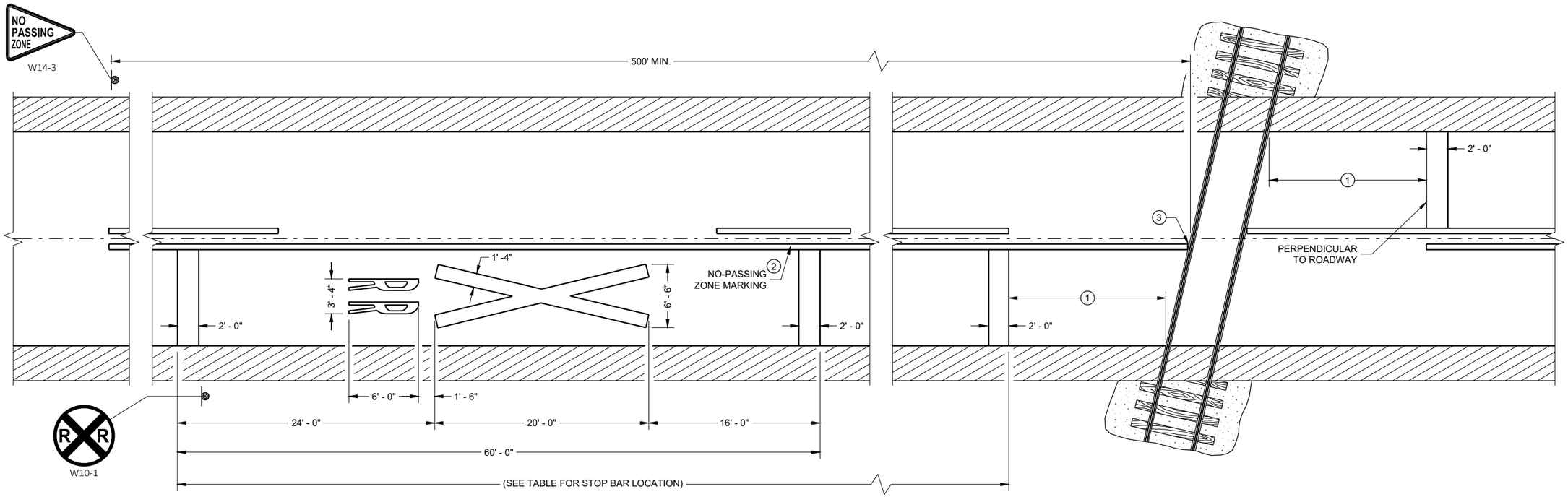
L = LENGTH OF TURN BAY

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

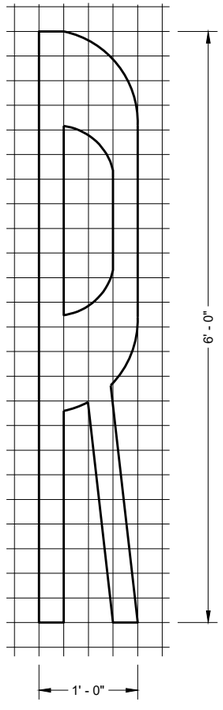
PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15C08-24d



PAVEMENT MARKING



LEGEND

SIGN ON PERMANENT SUPPORT

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.

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) PLACE STOP BAR APPROXIMATELY 8 FEET IN ADVANCE OF THE GATE (IF PRESENT), BUT NO CLOSER THAN 15 FEET IN ADVANCE OF THE NEAREST RAIL. FIELD-FIT STOP BAR TO MAXIMIZE VIEW OF APPROACHING TRAIN.

(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.

DISTANCE TABLE

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 CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

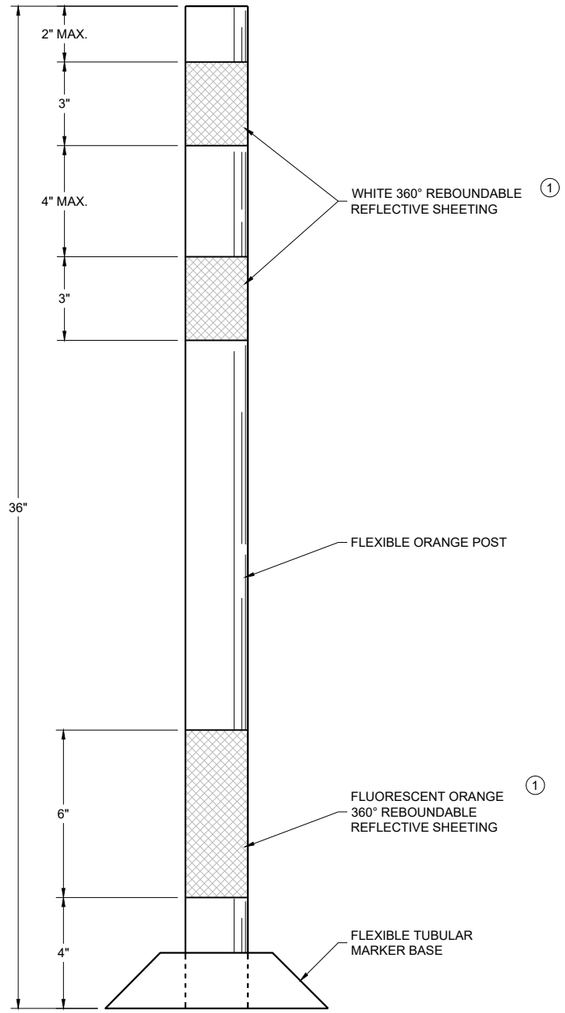
/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

6

SDD 15C09-13a

SDD 15C09-13a



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

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

6

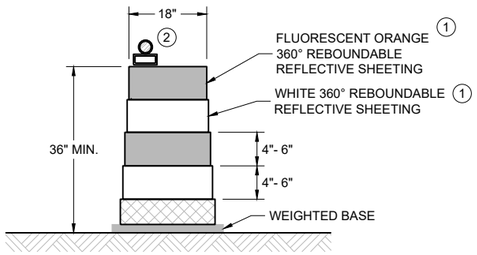
CHANNELIZING DEVICES
FLEXIBLE TUBULAR
MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

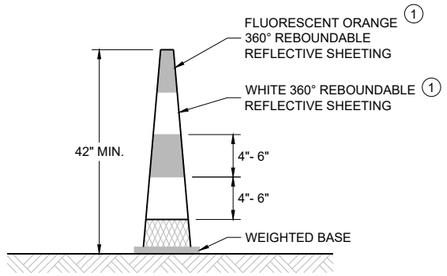
(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

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



DRUM

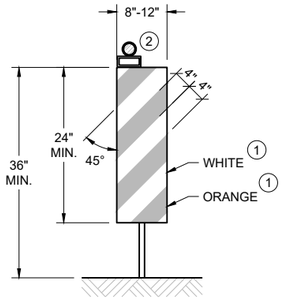
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

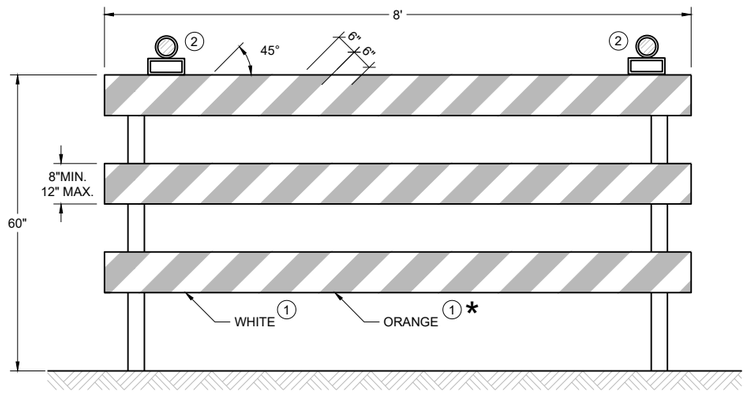
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



VERTICAL PANEL

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



TYPE 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.

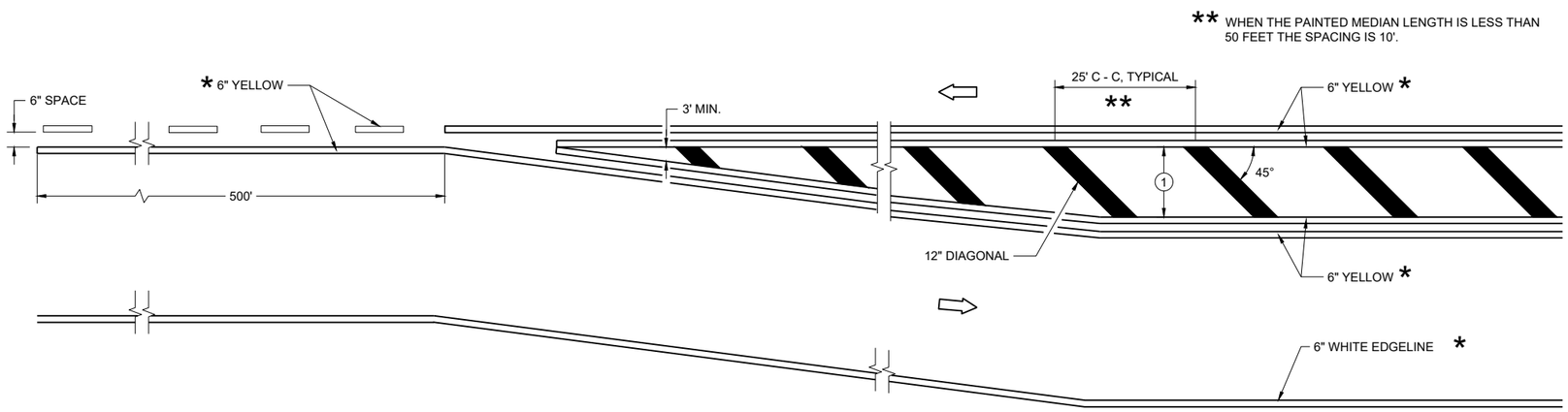
CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2026 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15C11-11b



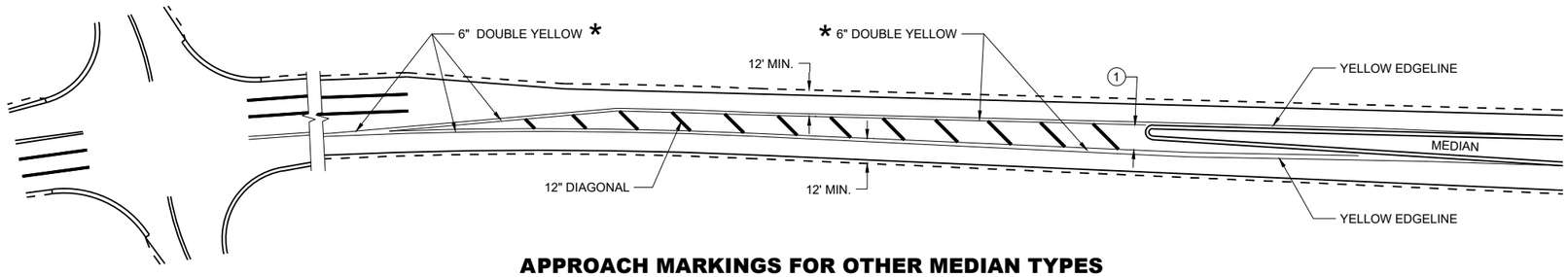
MEDIAN ISLAND DETAIL

GENERAL NOTES

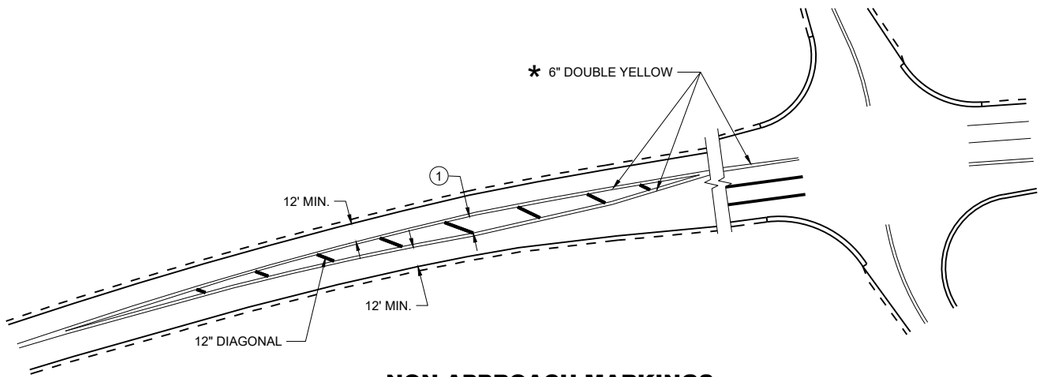
(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

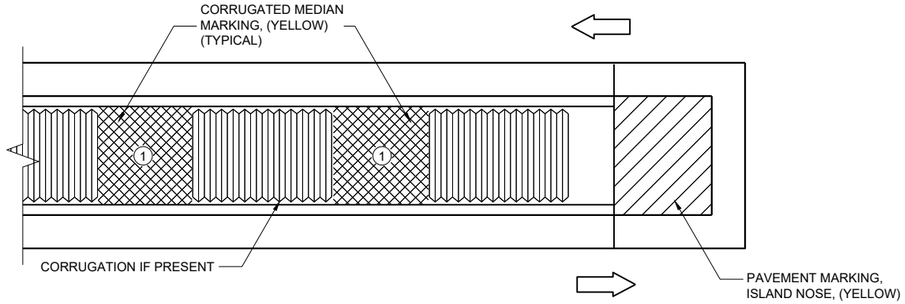
APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

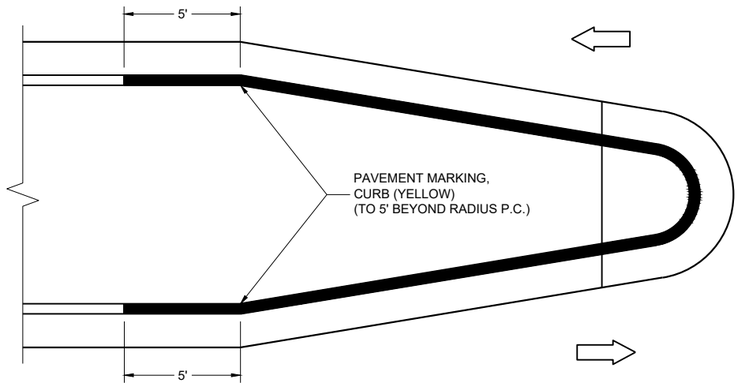
FHWA

6

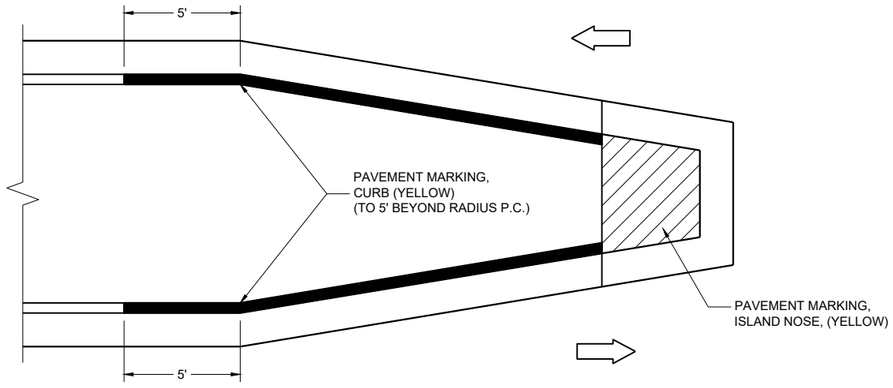
SDD 15C18-09a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

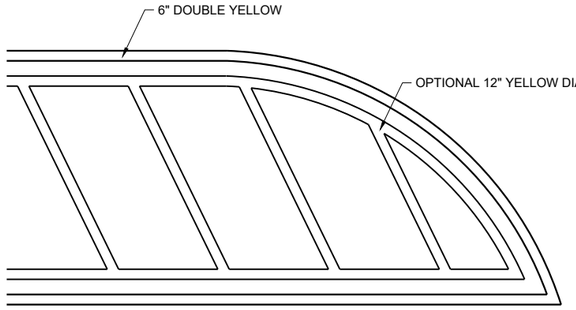
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

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SDD 15C18-09b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED

GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

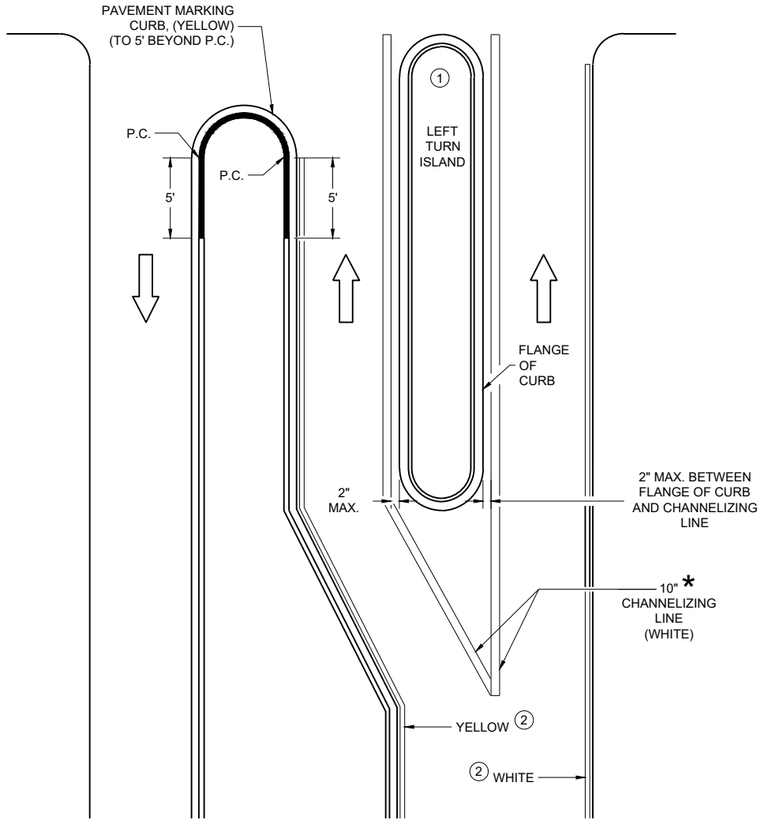
(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

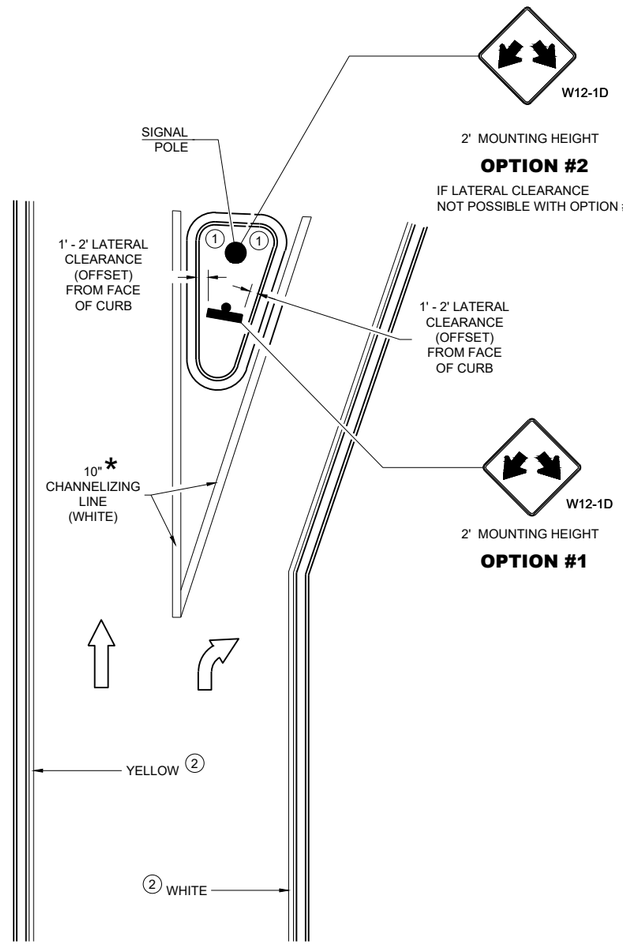
(3) CHEVRON MAY BE OMITTED IF LESS THAN 4" WIDE

DIRECTION OF TRAVEL

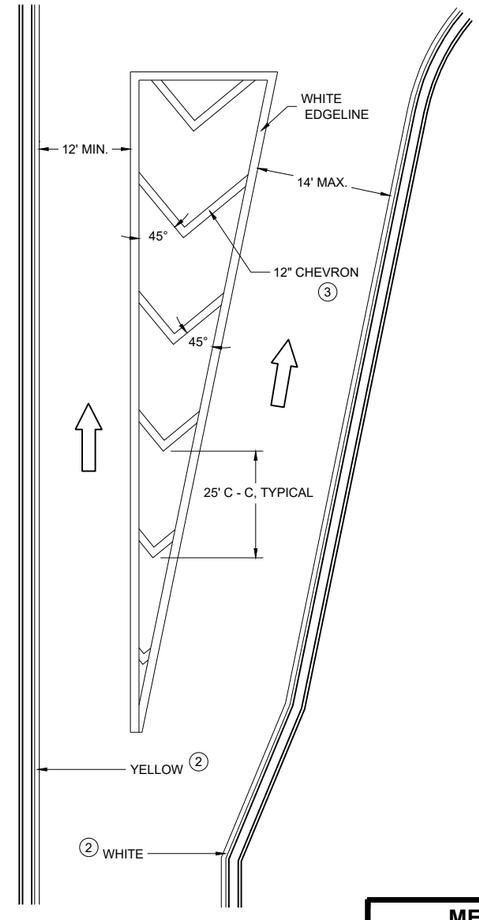
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND



TURN LANE DETAIL

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C18-09c

6

SDD 15C18-09c

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

(1) USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

** SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT PLACEMENT.

*** IF POSTED SPEED IS 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN).

LEGEND

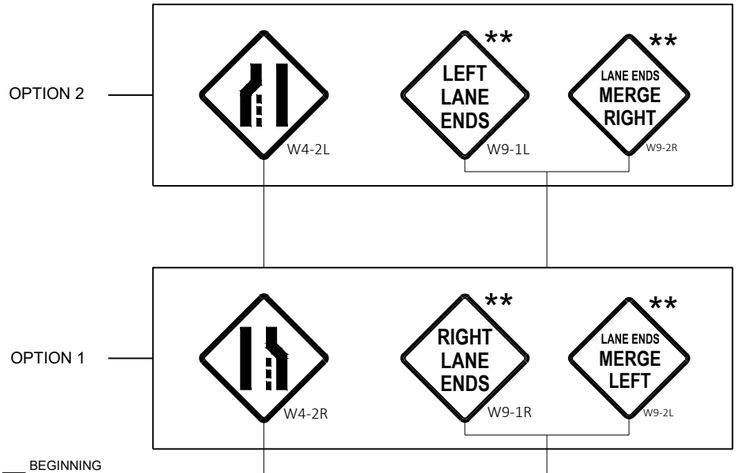
A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

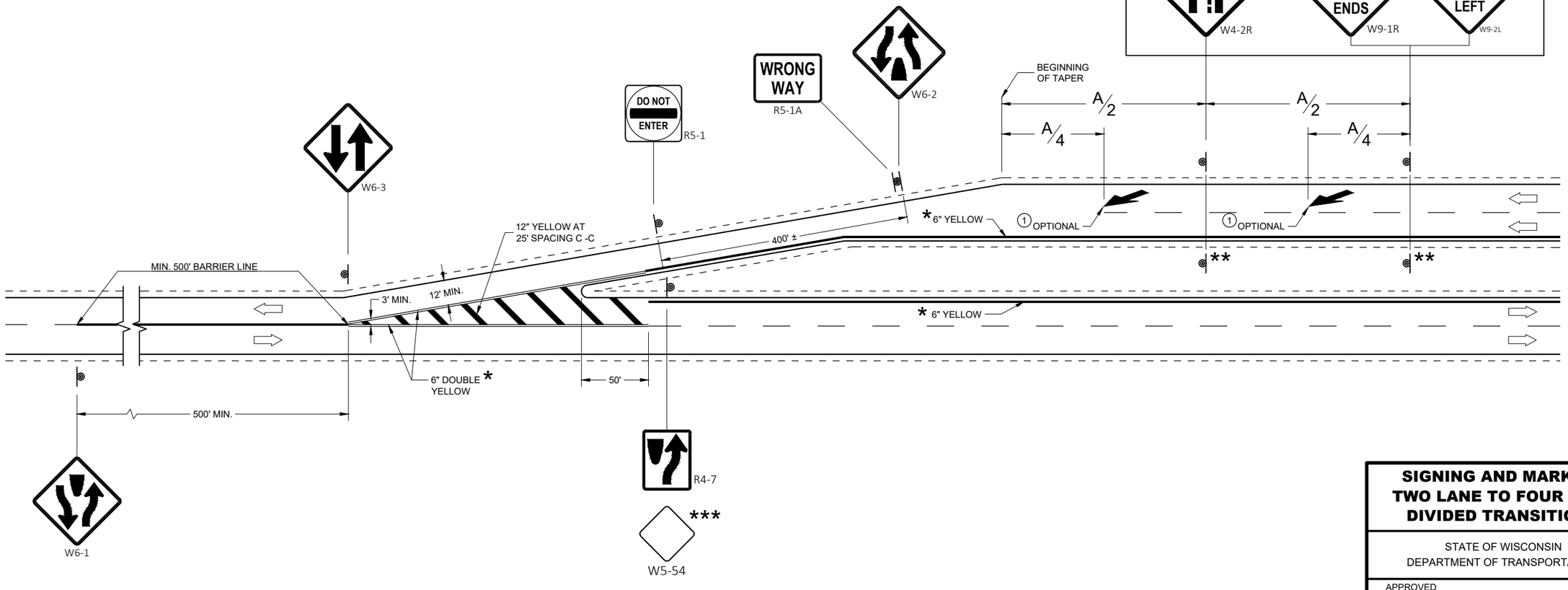
SIGN MOUNTED ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	325'
30	460'
35	565'
40	670'
45	775'
50	885'
55	990'
65	1200'
70	1250'





SIGNING AND MARKING TWO LANE TO FOUR LANE DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

6

SDD 15C21-11

6

SDD 15C21-11

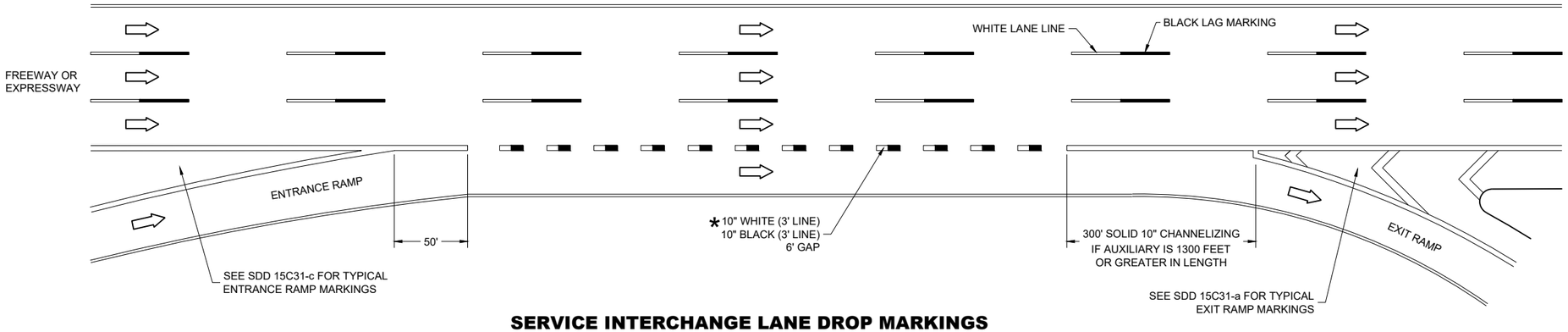
LEGEND

DIRECTION OF TRAVEL

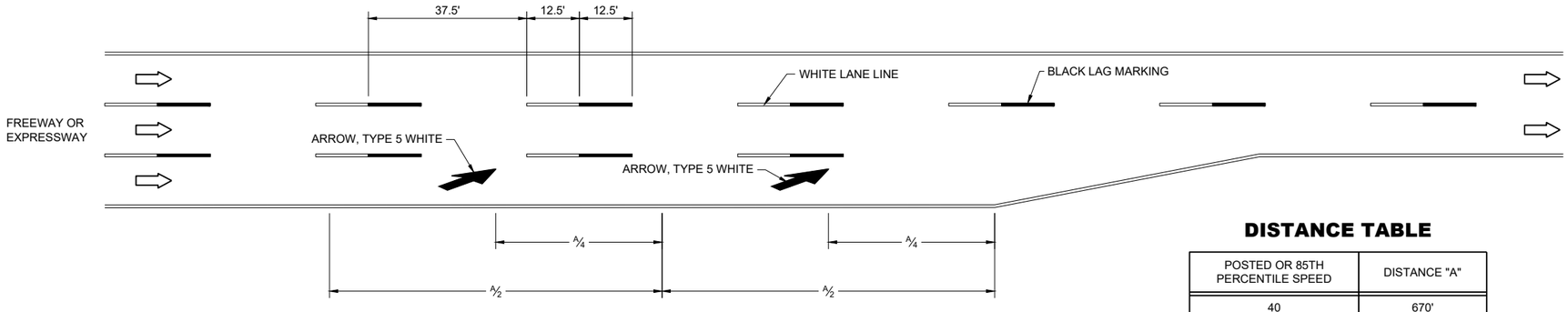
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.



SERVICE INTERCHANGE LANE DROP MARKINGS



LANE REDUCTION MARKINGS

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
40	670'
45	775'
50	885'
55	990'
60	1100'
65	1200'
70	1250'

PAVEMENT MARKING, LANE DROP AND LANE REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

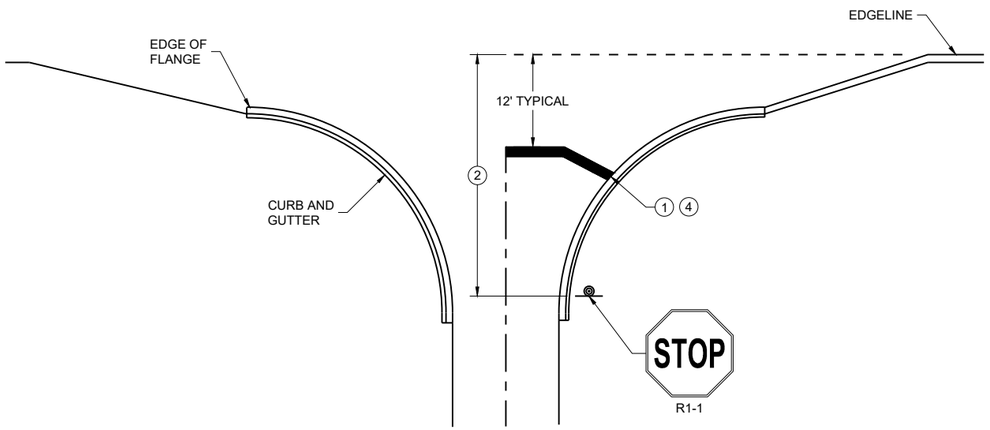
APPROVED
November 2024 — DATE
/S/ Matthew Rauch — WORK ZONE ENGINEER
FHWA

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SDD 15C31-08d

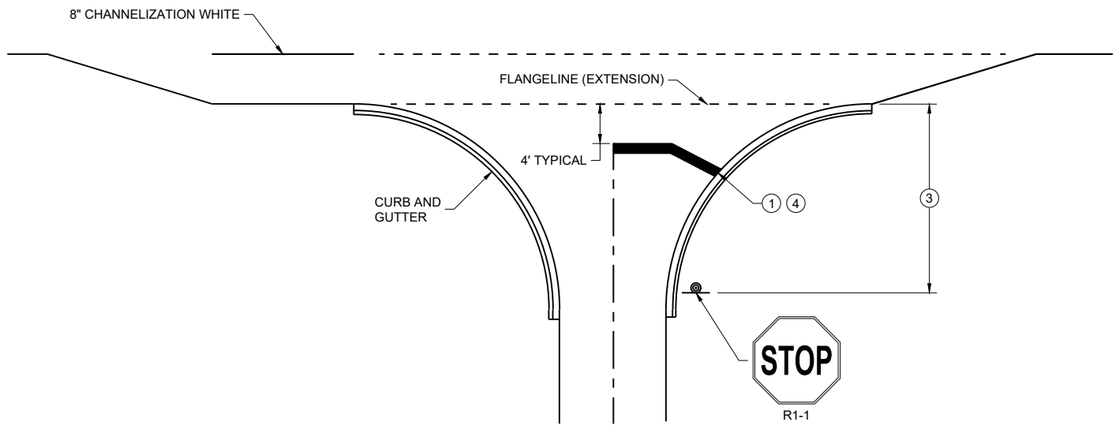
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

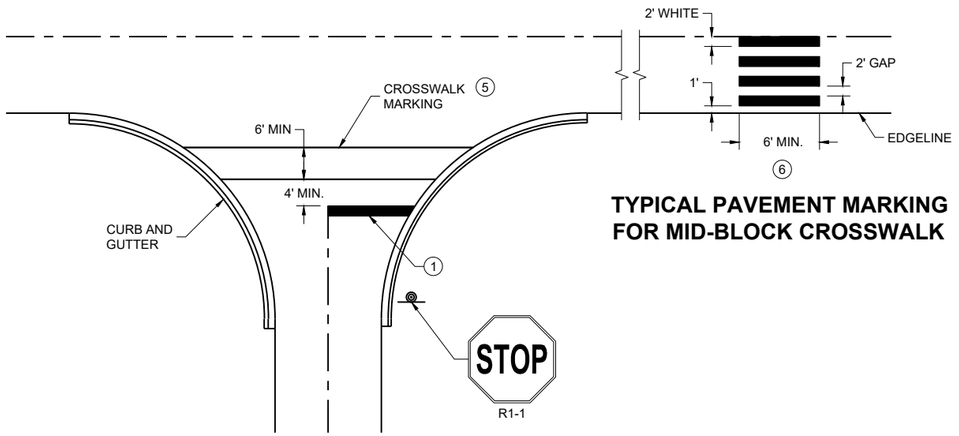
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

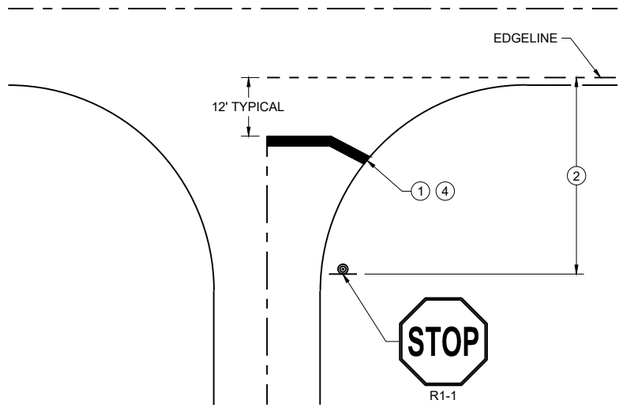


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

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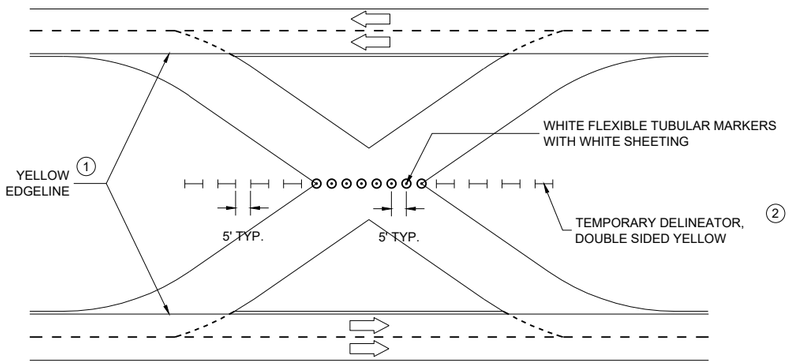
SDD 15C33-05

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SDD 15C33-05

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- DELINEATOR FLEXIBLE / TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- TYPE "A" WARNING LIGHT (FLASHING)
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK AREA



TRAFFIC CONTROL FOR CROSSOVER THAT IS NOT IN USE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"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 PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.

FOR PERMANENT CROSSOVER, PAVEMENT MARKING SHOULD CONFORM TO SECTION 646 OF THE STANDARD SPECIFICATIONS.

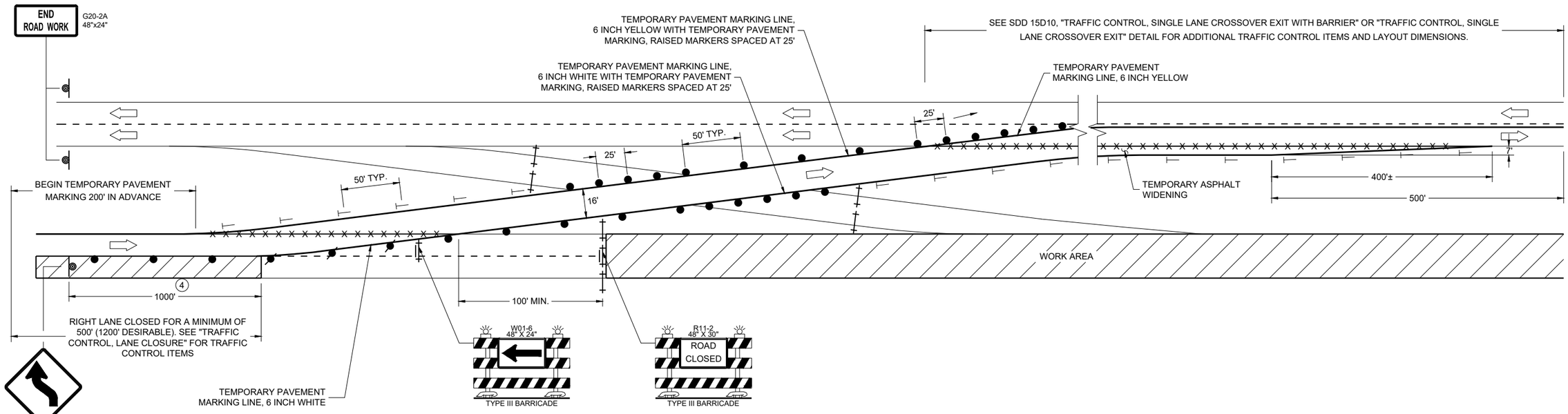
FOR PERMANENT CROSSOVER, INSTALL PERMANENT DELINEATORS ACCORDING TO SECTION 633 OF THE STANDARD SPECIFICATIONS.

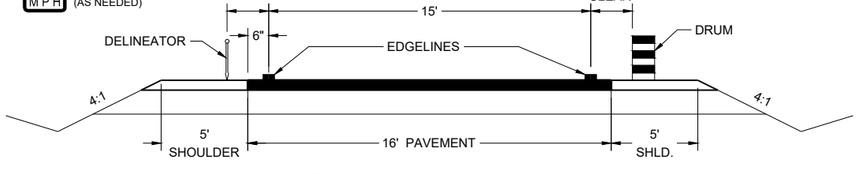
① FOR PERMANENT CROSSOVER, PAVEMENT MARKING SHOULD CONFORM TO SECTION 646 OF THE STANDARD SPECIFICATIONS.

② FOR PERMANENT CROSSOVER, INSTALL PERMANENT DELINEATORS ACCORDING TO SECTION 633 OF THE STANDARD SPECIFICATIONS.

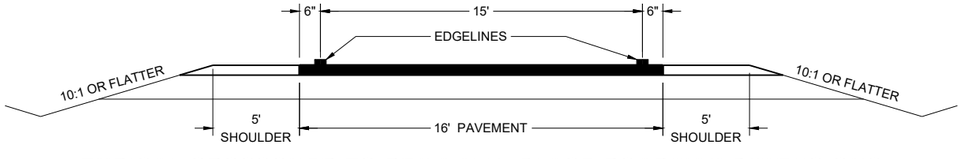
③ USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

④ IF BEGINNING OF LANE SHIFT IS 1200' OR LESS FROM THE END OF FROM THE END OF THE LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200' AFTER THE END OF THE LANE CLOSURE TAPER.





TYPICAL TEMPORARY CROSSOVER ROADWAY DIMENSIONS
(SEE PLAN FOR ROADWAY DESIGN ELEMENTS)



TYPICAL CROSSOVER TO REMAIN IN PLACE ROADWAY DIMENSIONS
(SEE PLAN FOR ROADWAY DESIGN ELEMENTS)

TRAFFIC CONTROL, SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6 SDD 15D11-10

6 SDD 15D11-10

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 DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 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 OR AS APPROVED BY THE ENGINEER.

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 AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

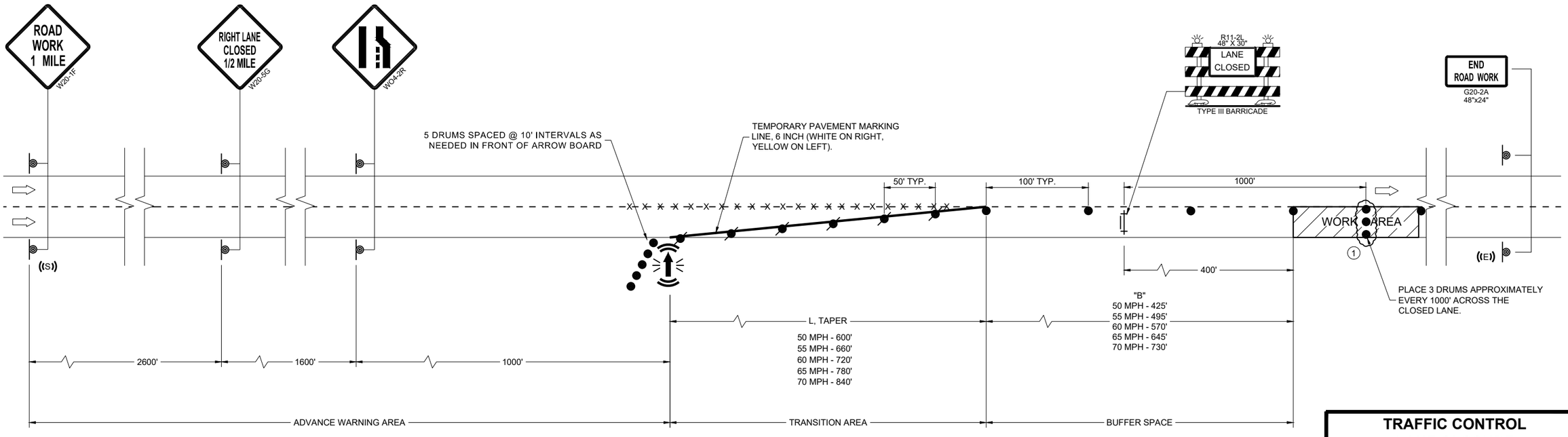
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF 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.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

(1) DRUMS 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.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- (S) WZ START LOCATION MARKER
- (E) WZ END LOCATION MARKER



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6

SDD 15D12-16a

6

SDD 15D12-16a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

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

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

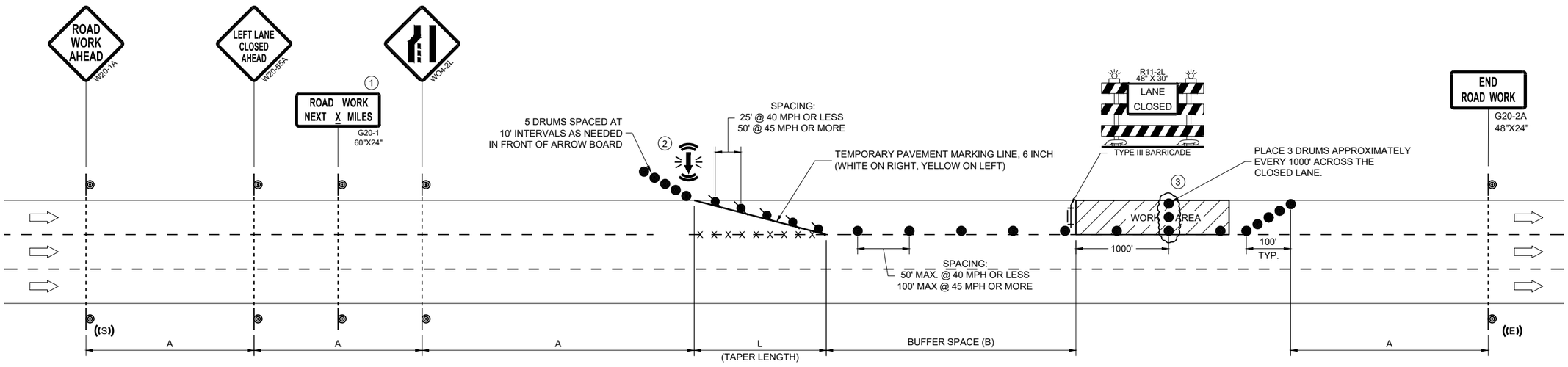
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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.

(3) DRUMS 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.



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'	155'
30	200'	180'	200'
35	350'	245'	250'
40	350'	320'	305'
45	500'	540'	360'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D20-11a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

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

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

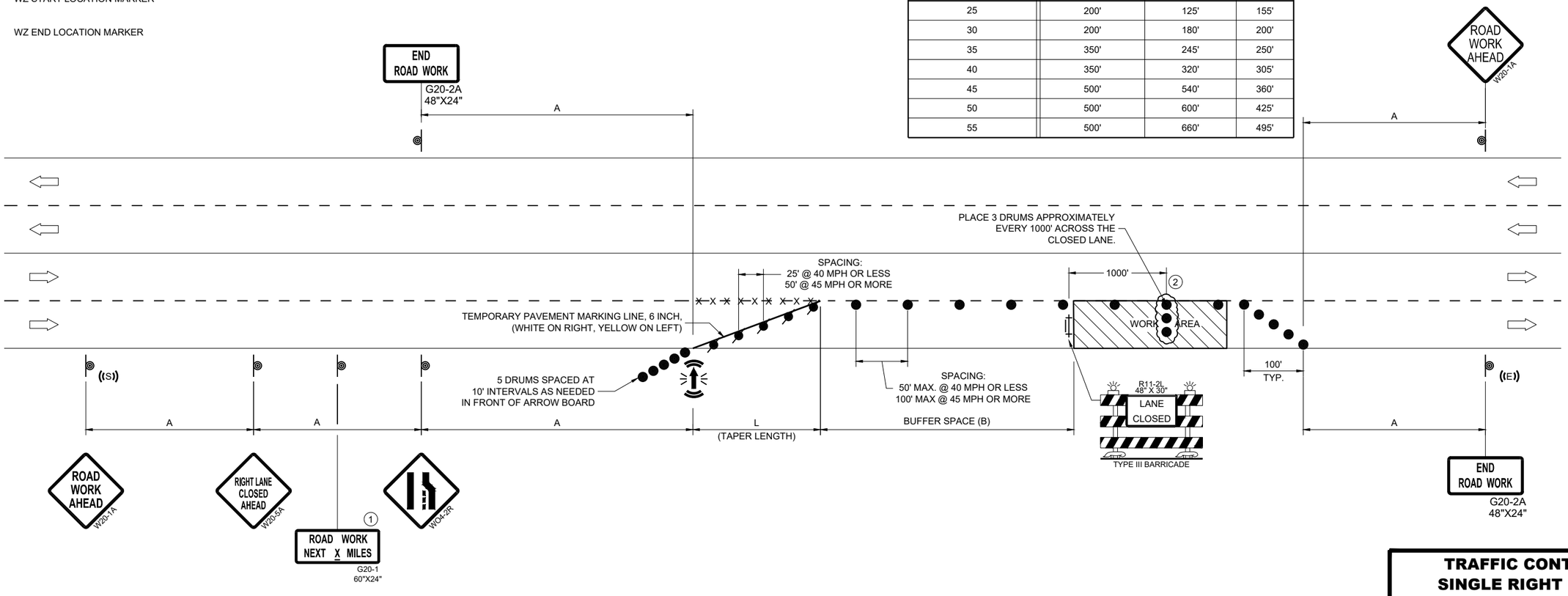
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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) DRUMS 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.

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'	155'
30	200'	180'	200'
35	350'	245'	250'
40	350'	320'	305'
45	500'	540'	360'
50	500'	600'	425'
55	500'	660'	495'



TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

6

SDD 15D20-11b

6

SDD 15D20-11b

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

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

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

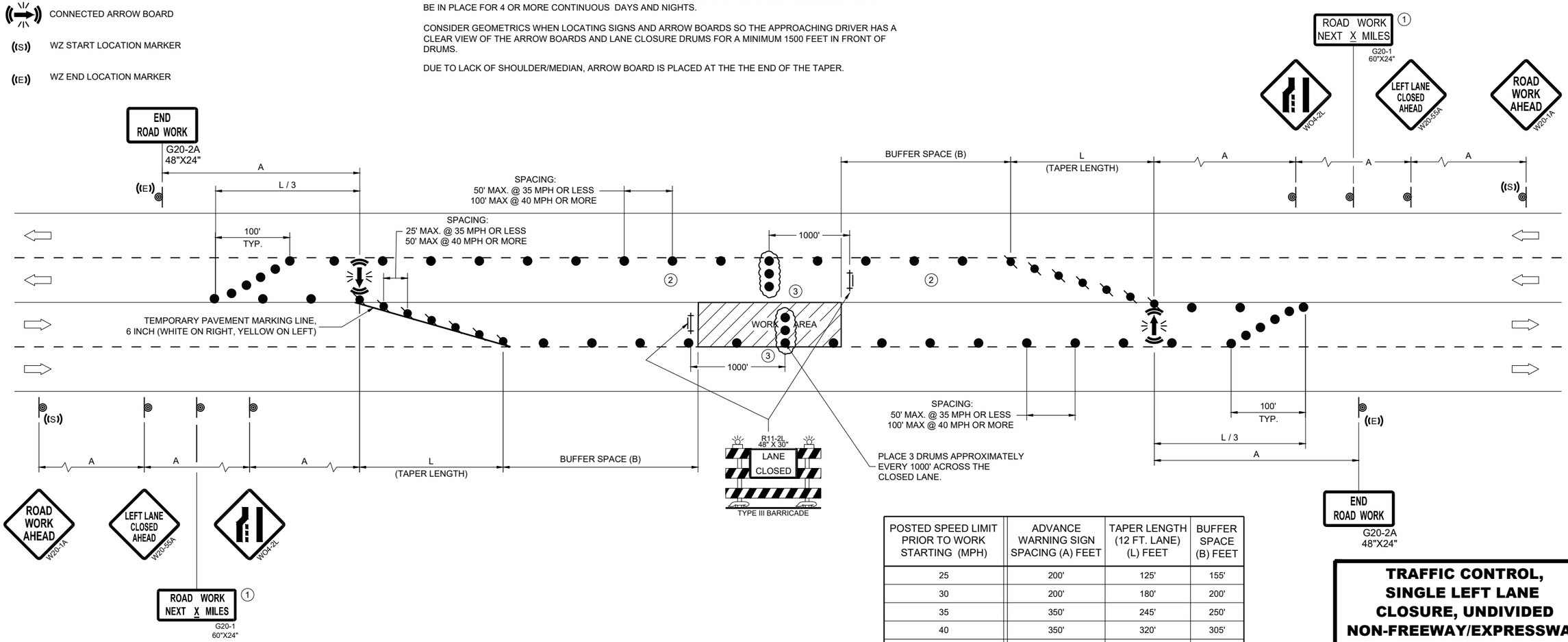
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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.

DRUMS 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.



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'	155'
30	200'	180'	200'
35	350'	245'	250'
40	350'	320'	305'
45	500'	540'	360'
50	500'	600'	425'
55	500'	660'	495'

TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

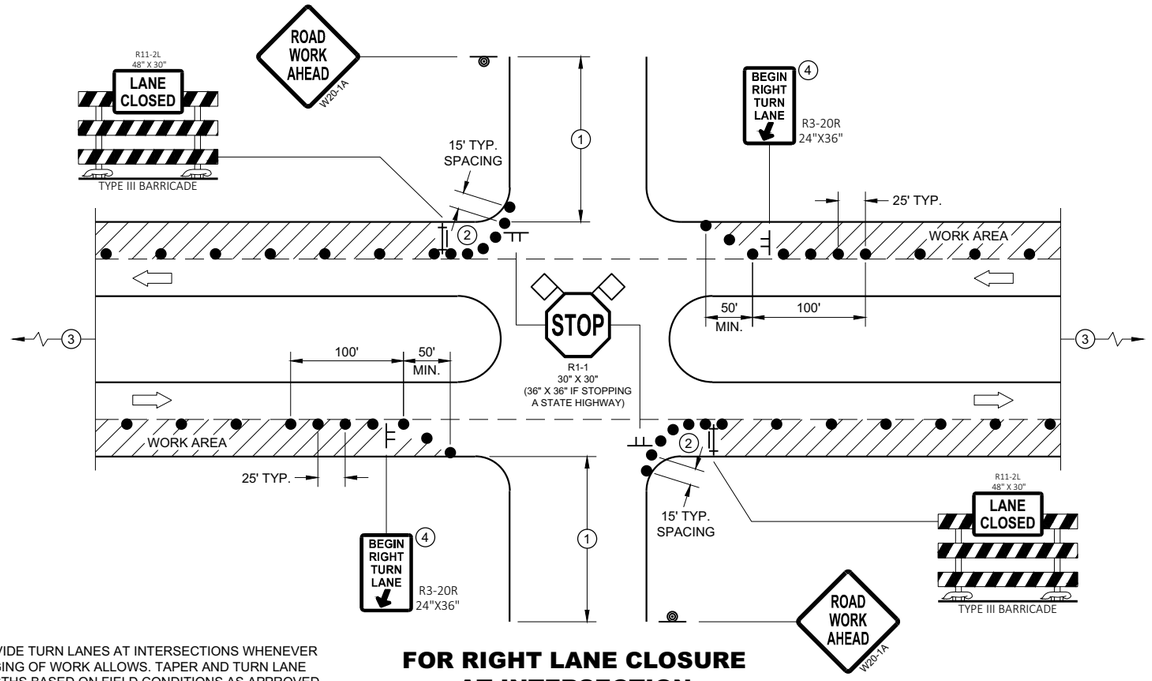
FHWA

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SDD 15D20-11c

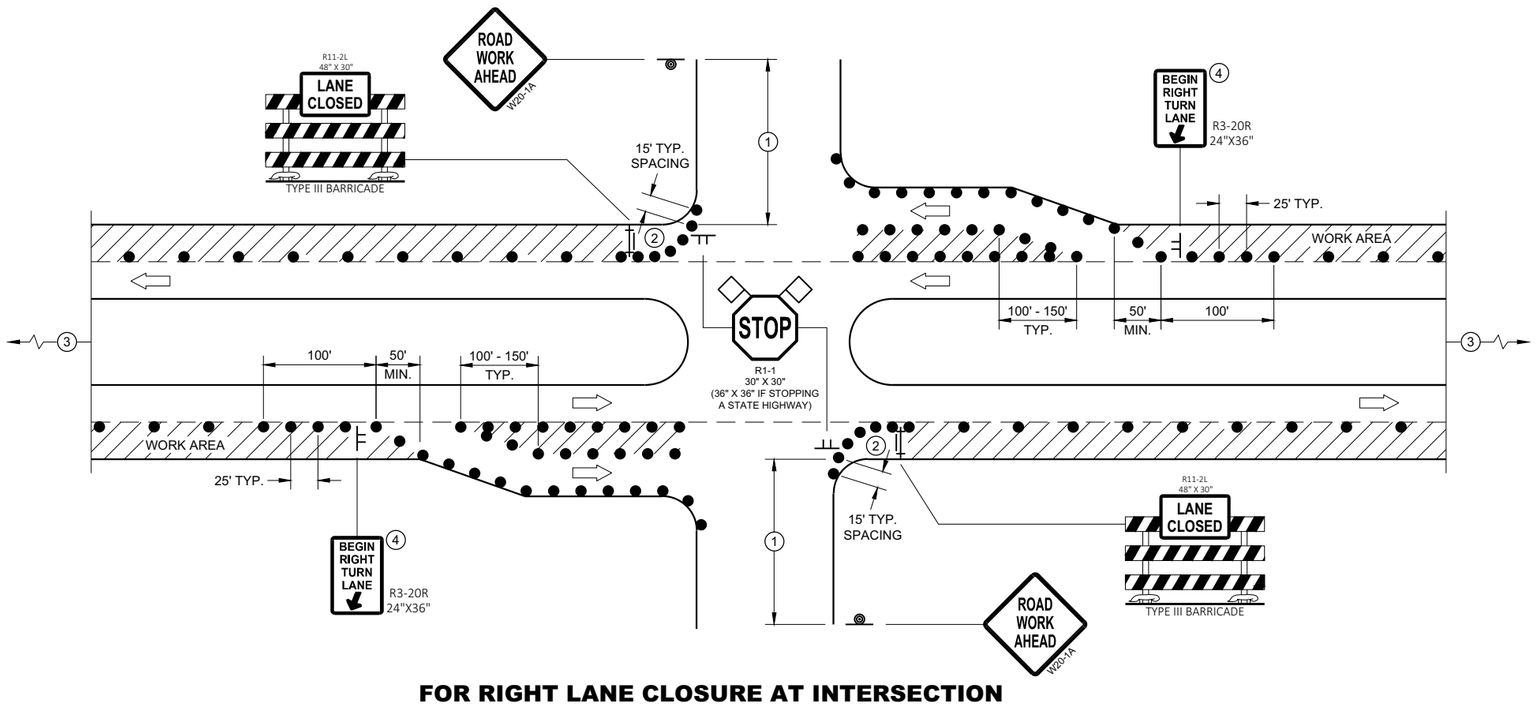
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SDD 15D20-11c



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

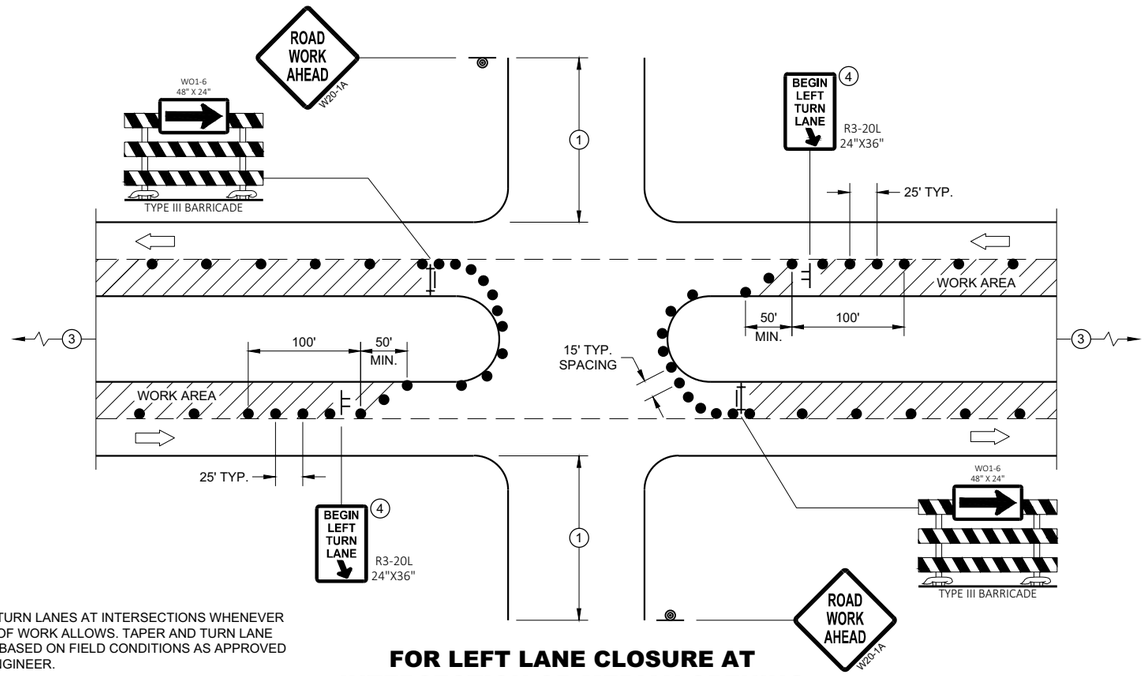
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a
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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.

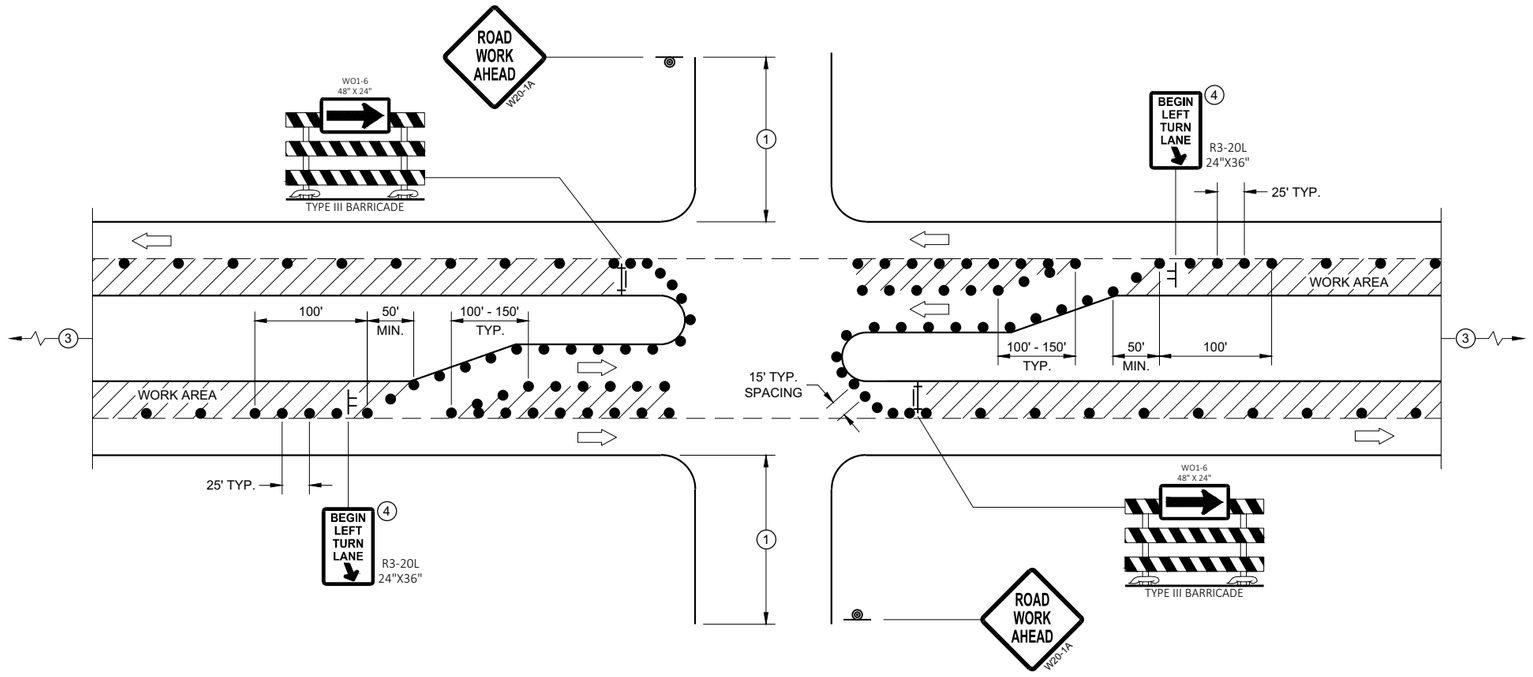
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(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

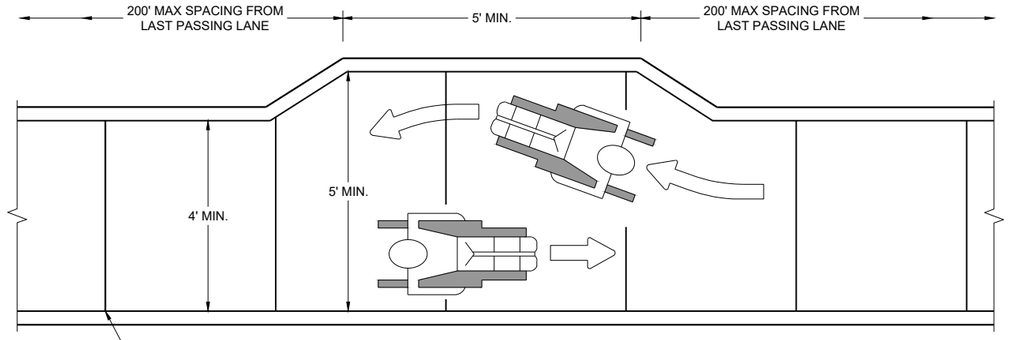
FHWA

6

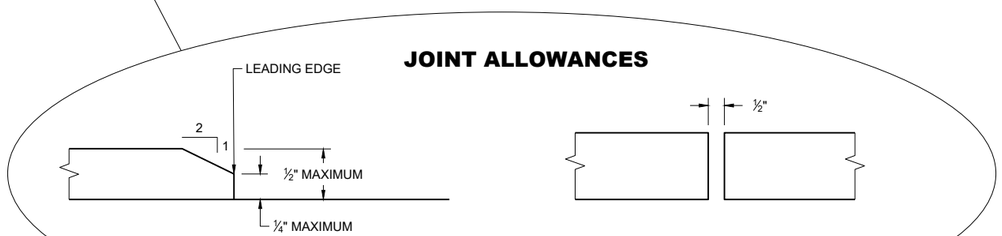
SDD 15D21 - 07b

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SDD 15D21 - 07b



NARROW SIDEWALK PASSING DETAIL



MAXIMUM VERTICAL GAP

MAXIMUM HORIZONTAL GAP

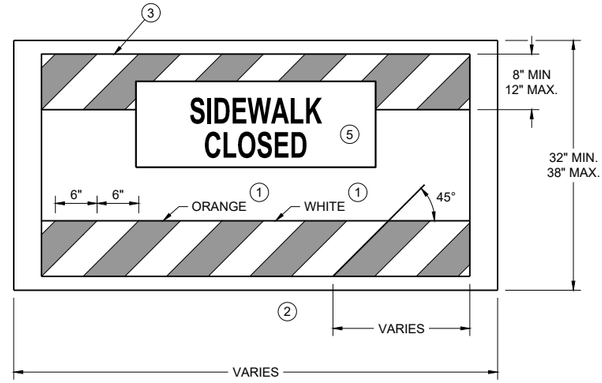
GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

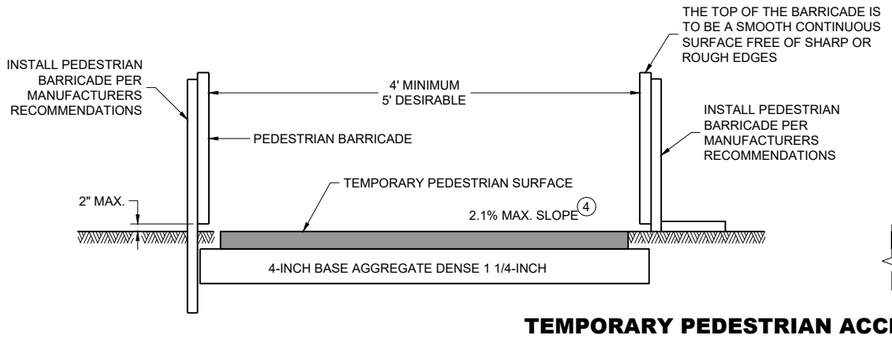
1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
3. PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

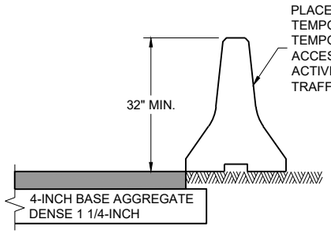
4. WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.
5. WHERE SIGNS FOR TEMPORARY PEDESTRIAN ACCOMMODATIONS ARE SHOWN BEING PLACED BEHIND TEMPORARY PEDESTRIAN BARRICADE, THE SIGNS MAY BE MOUNTED ON THE TEMPORARY PEDESTRIAN BARRICADE INSTEAD. A CORRUGATED POLYPROPYLENE OR POLYETHYLENE PLASTIC SIGN BASE SHALL BE USED IF MOUNTED ON THE BARRICADE. THE TOP OF THE SIGN SHALL BE MOUNTED BELOW THE TOP OF THE BARRICADE TO ALLOW A CONTINUOUS HAND-TRAILING EDGE.



TEMPORARY PEDESTRIAN BARRICADE *



TEMPORARY PEDESTRIAN ACCESS





TEMPORARY PEDESTRIAN FLAGGING

LEGEND

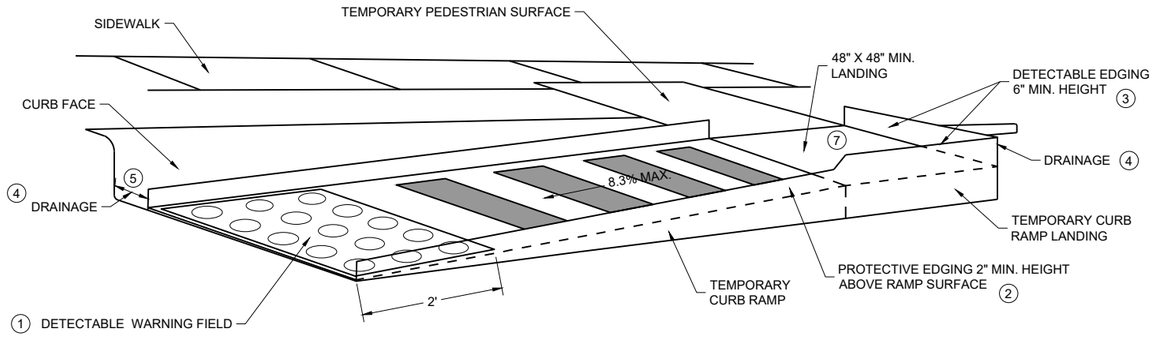
- TEMPORARY PEDESTRIAN BARRICADE
- AUDIBLE MESSAGE DEVICE
- TEMPORARY SIGN SUPPORT
- WORK AREA

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 15D30-12a



PERSPECTIVE VIEW

GENERAL NOTES

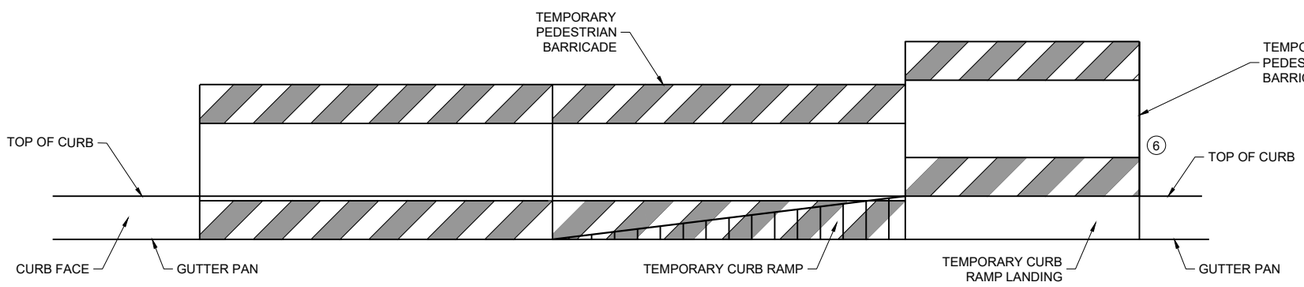
CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:48 (2.1%) MAX. CROSS-SLOPE.

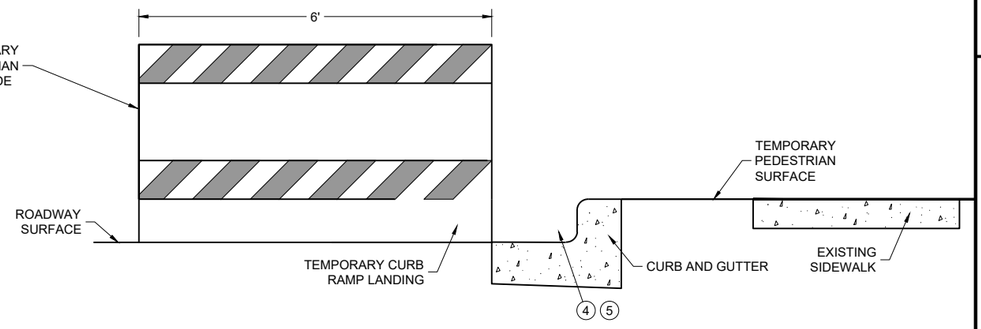
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

1. INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
5. ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.
6. IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.
7. LANDING TO BE SLOPED A MAXIMUM OF 2.1% IN ALL DIRECTIONS OF PEDESTRIAN TRAVEL.



FRONT VIEW



SIDE VIEW

TEMPORARY CURB RAMP PARALLEL TO CURB

6

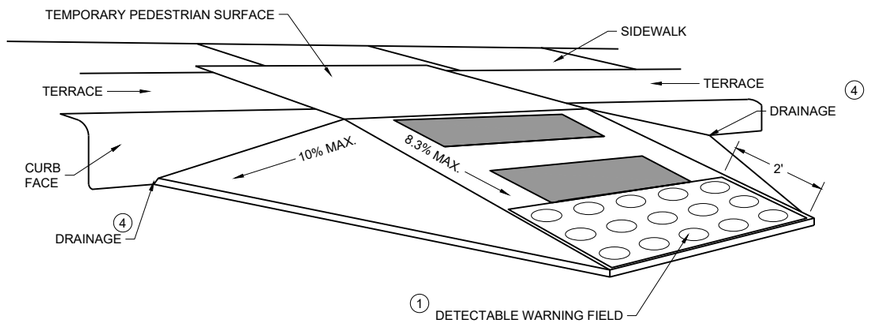
SDD 15D30-12b

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

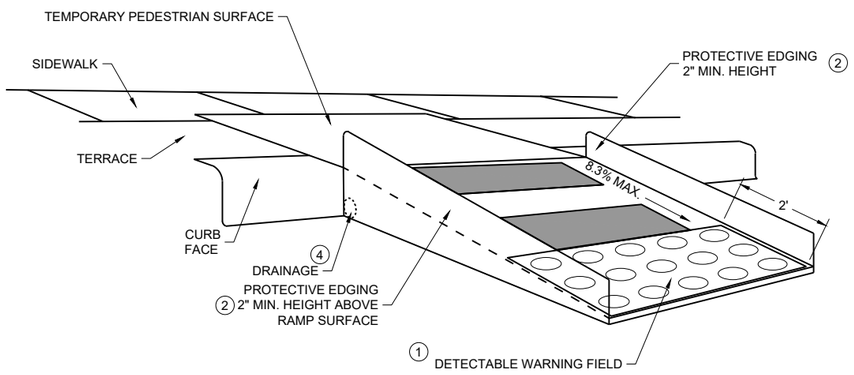
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-12b



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:48 (2.1%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

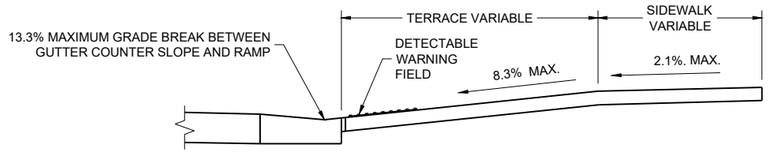
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

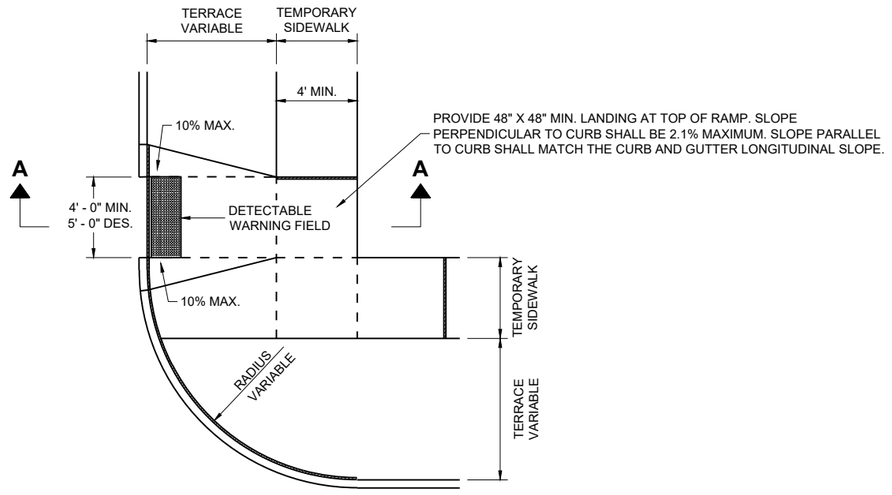
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

GENERAL NOTES



SECTION A - A



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

6

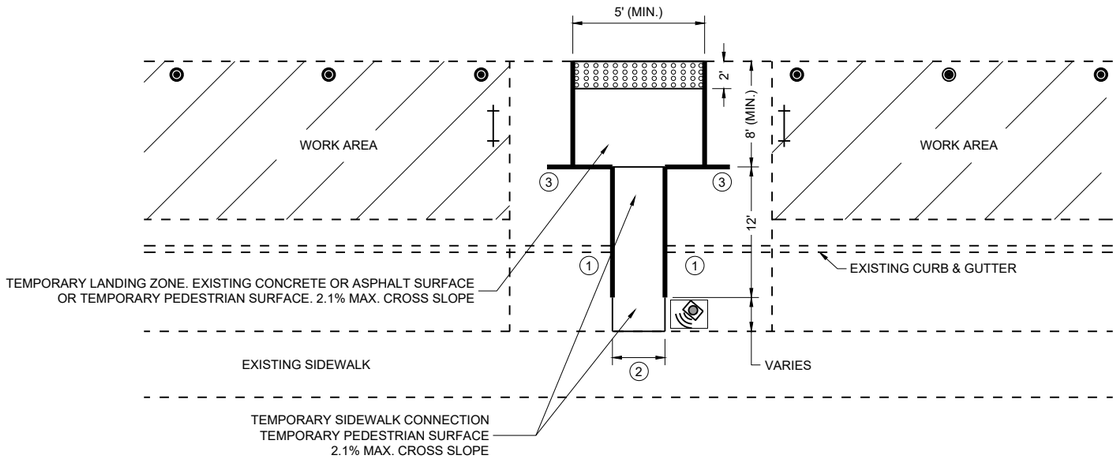
SDD 15D30-12d

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

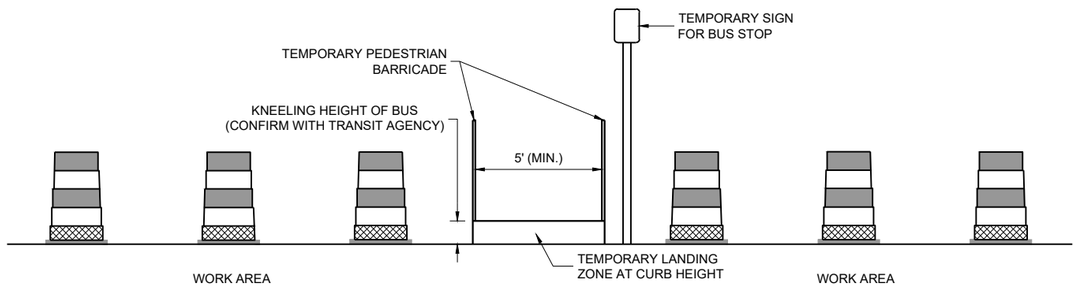
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-12d



PLAN VIEW



PROFILE VIEW TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:48 (2.1%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

6

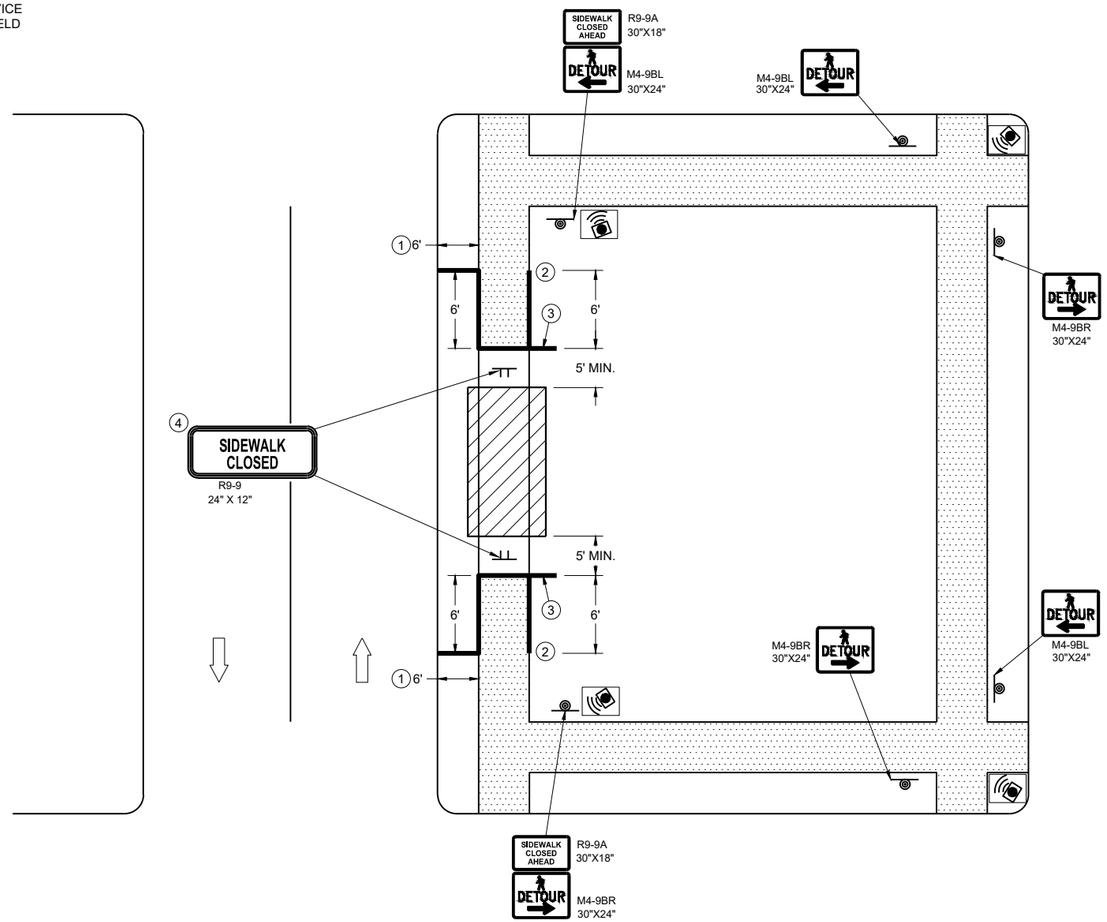
SDD 15D30-12e

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-12f

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

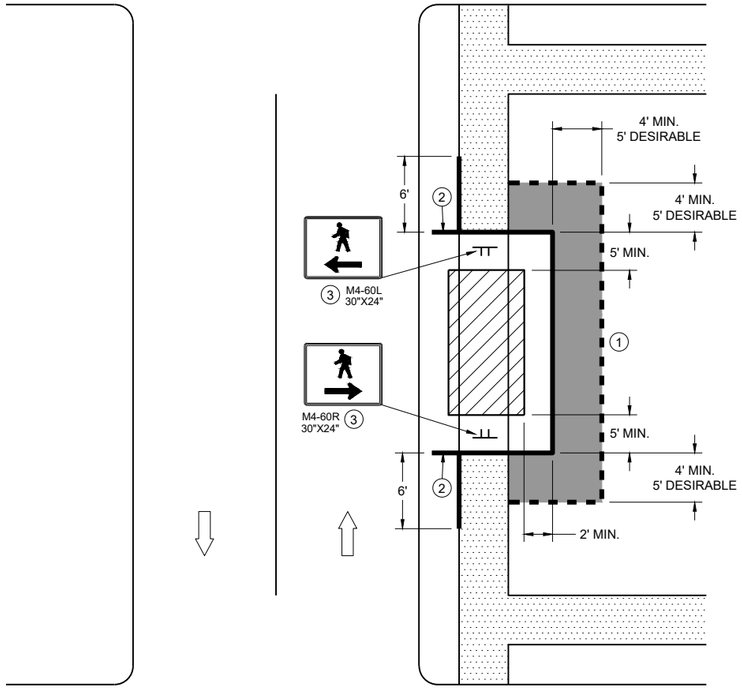
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

(1) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(2) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.

(3) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK BYPASS
SINGLE SIDE

6

SDD 15D30-12g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-12g

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

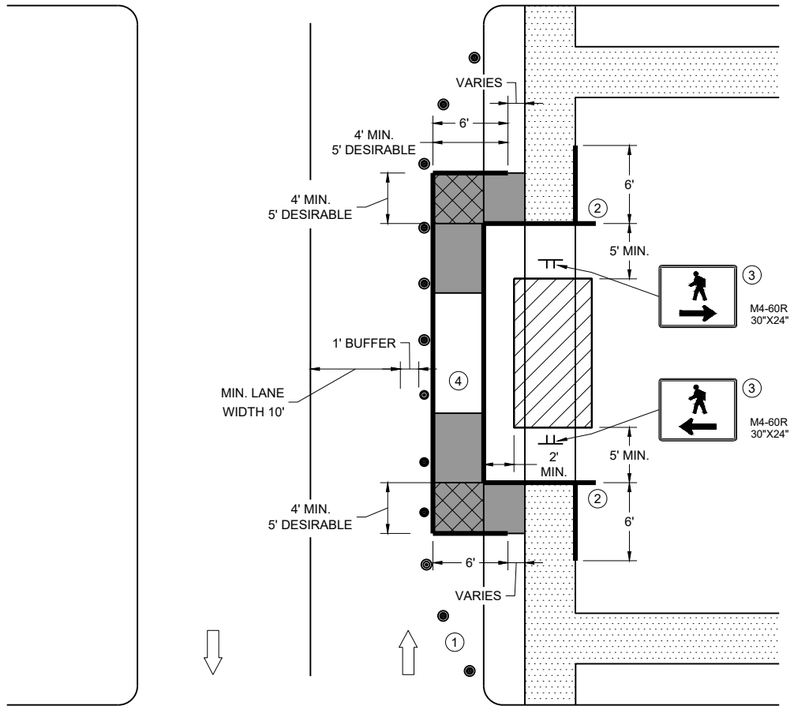
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.

(2) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.

(3) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

(4) USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURFACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE. WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.



SIDEWALK BYPASS, SINGLE SIDE

6

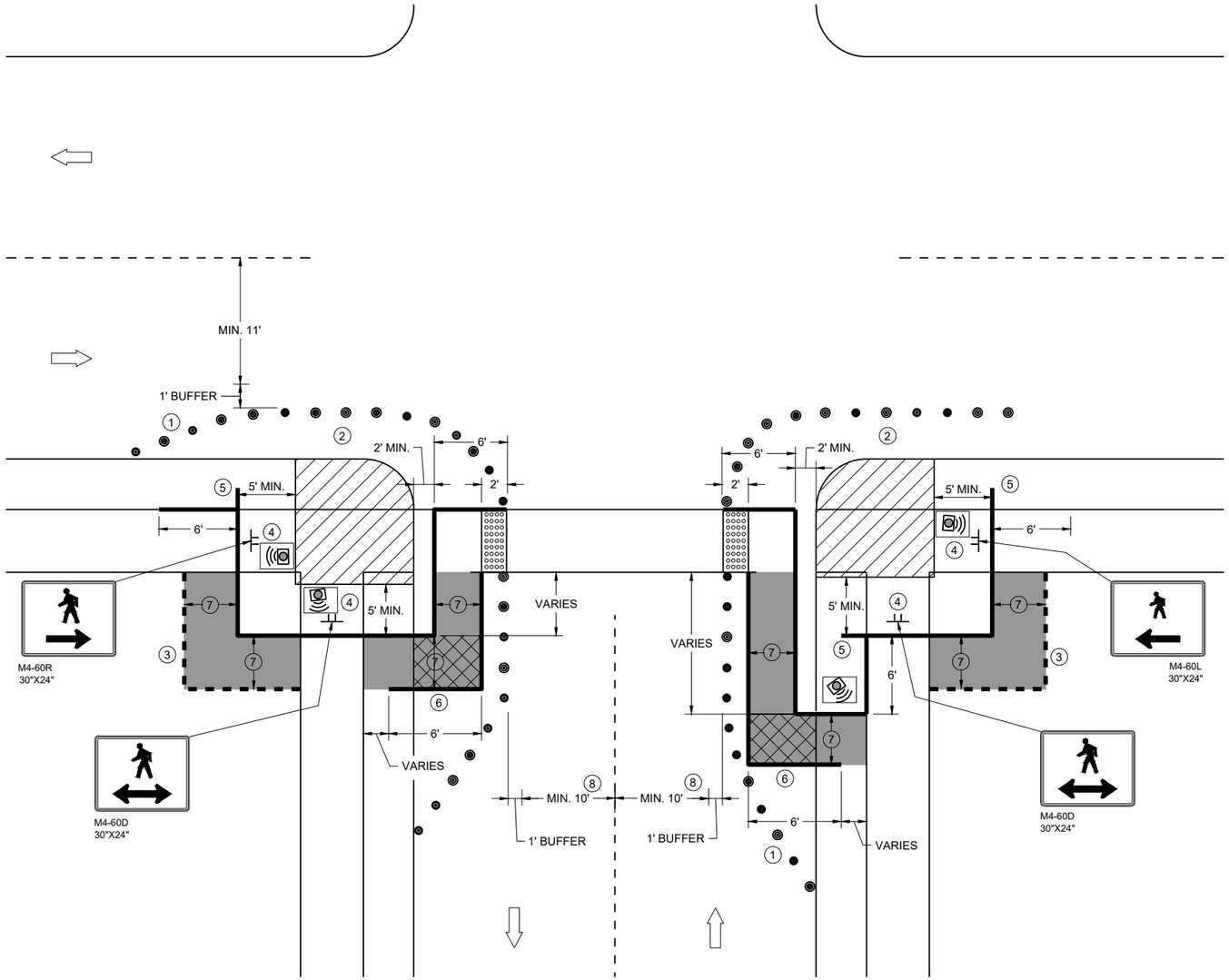
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TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
7. 4 FEET MINIMUM, 5 FEET DESIRABLE
8. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

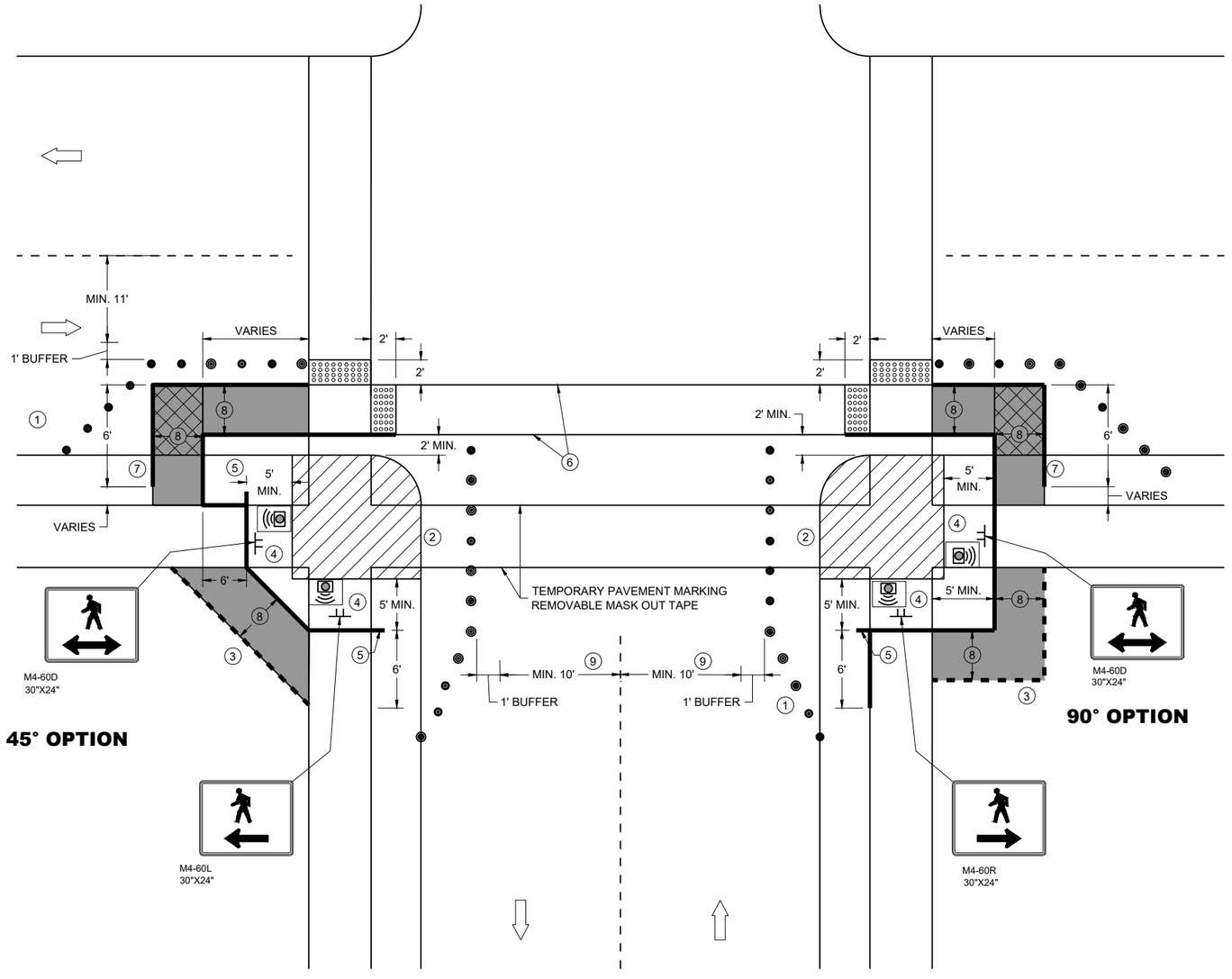
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 15D30-12i



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.

(2) PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS

(3) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(4) MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.

(5) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.

(6) WHITE 6" TEMPORARY PAVEMENT MARKING

(7) IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.

(8) 4 FEET MINIMUM, 5 FEET DESIRABLE

(9) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-12j

SDD 15D30-12j

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

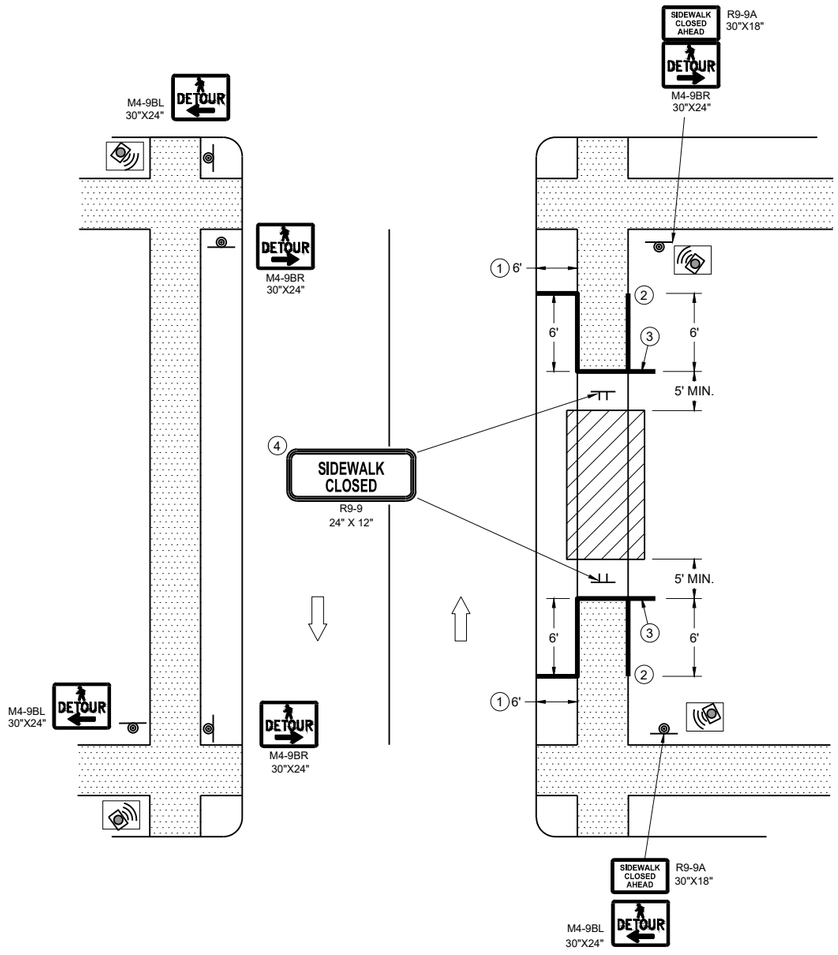
UNDER PEDESTRIAN TRAFFIC

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC

TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES

GENERAL NOTES

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICT WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

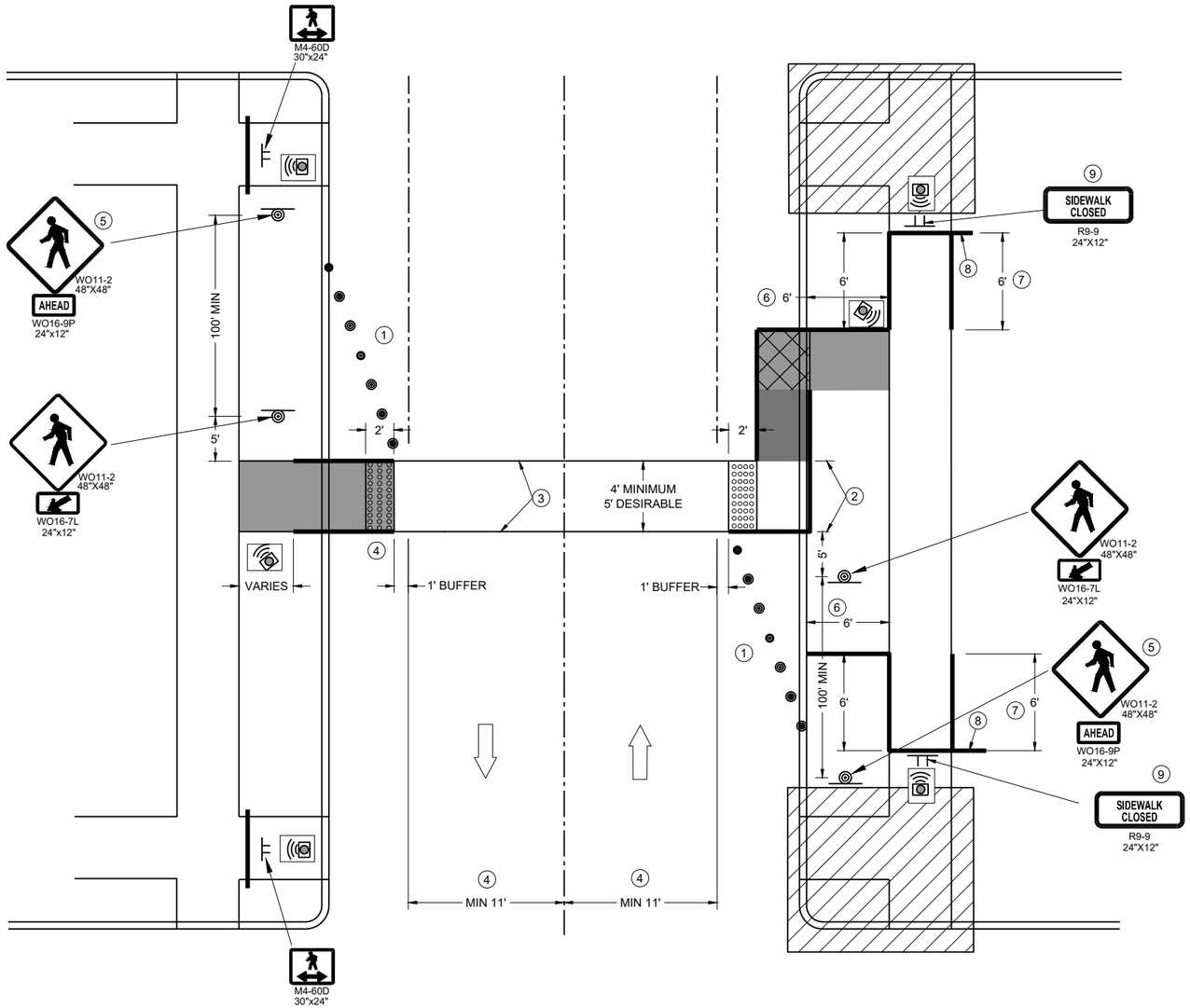
1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-12k



TEMPORARY PEDESTRIAN CROSSING

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT PEDESTRIAN FACILITIES CLOSURES.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

1. SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.
2. 4 FEET MINIMUM, 5 FEET DESIRABLE.
3. WHITE 6" TEMPORARY PAVEMENT MARKING.
4. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, PERPENDICULAR CURB RAMPS MAY NEED TO BE UTILIZED.
5. IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.
6. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
7. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
8. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
9. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF THE SIGN.

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY CURB RAMP
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

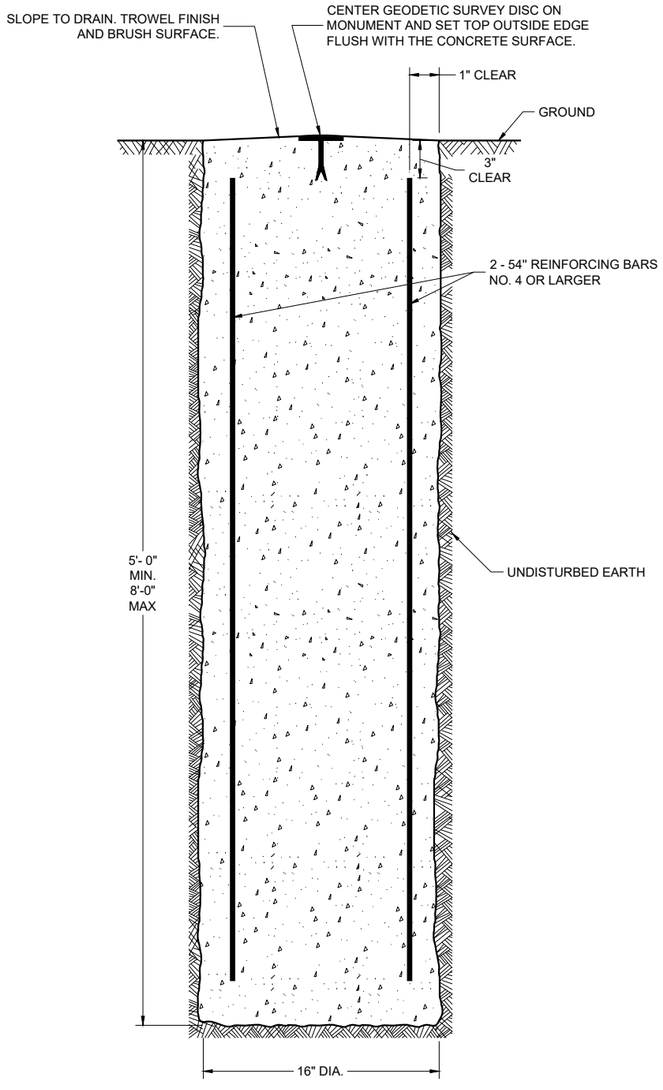
SDD 15D30-12I

GENERAL NOTES

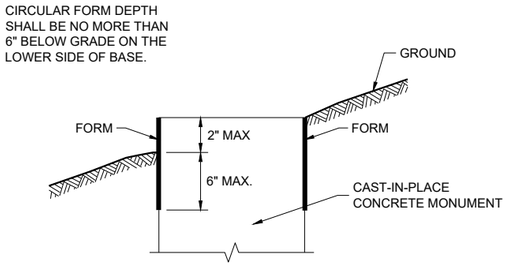
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURVEY MONUMENT SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

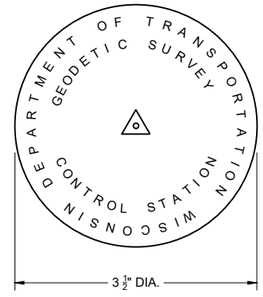
IF A SURVEY MONUMENT REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.



CAST-IN-PLACE CONCRETE MONUMENT



FORMING DETAIL



GEODETIC SURVEY DISC
FURNISHED BY WISDOT

GEODETIC SURVEY MONUMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2025 — DATE
/S/ DAVID J. LAYTON — CHIEF SURVEY AND MAPPING ENGINEER

FHWA

6

SDD 16A02-01

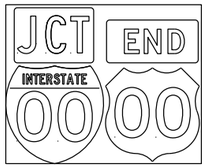
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SDD 16A02-01

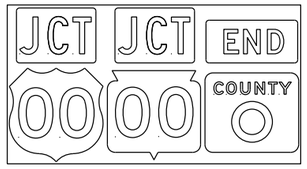
TYPICAL ASSEMBLIES



J1-1



J1-2



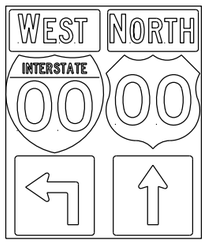
J1-3



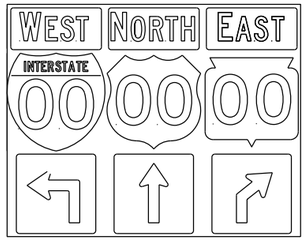
JR1-1



J2-1



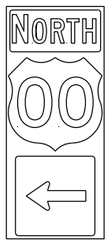
J2-2



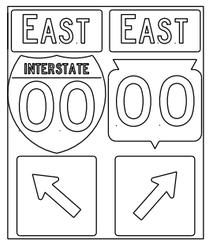
J2-3



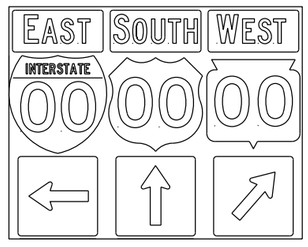
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



J3-1



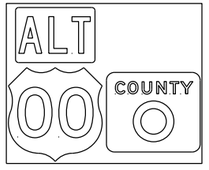
J3-2



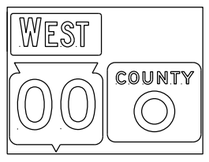
J3-3



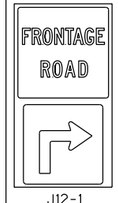
J4-1



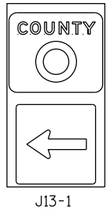
J4-2



J4-2



J12-1



J13-1



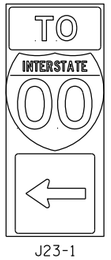
J32-1



J33-1



J22-1



J23-1



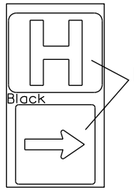
JR13-1



JR23-1



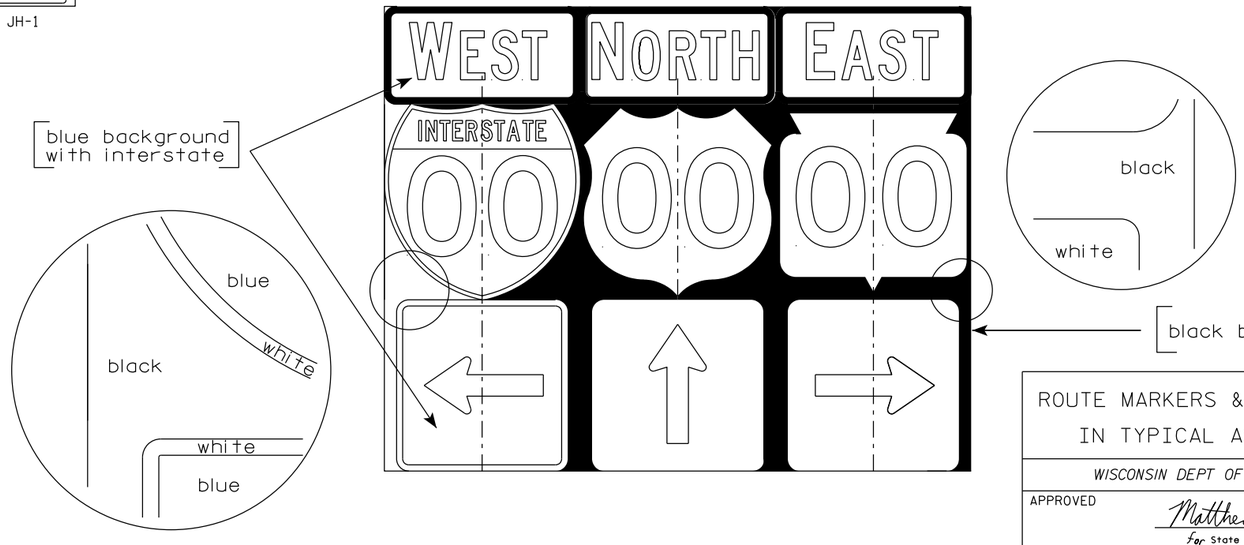
JR99-1



JH-1

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 4
3. Message Series - See Note 4
4. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
5. 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.
6. 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.
7. 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.
8. 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.
9. All Vertical J Assemblies are given a Sign Code of JV
10. For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
11. For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.



ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

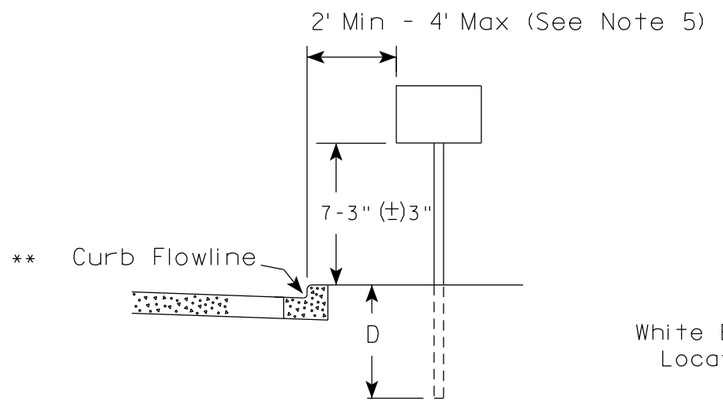
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/23 PLATE NO. A2-1S.10

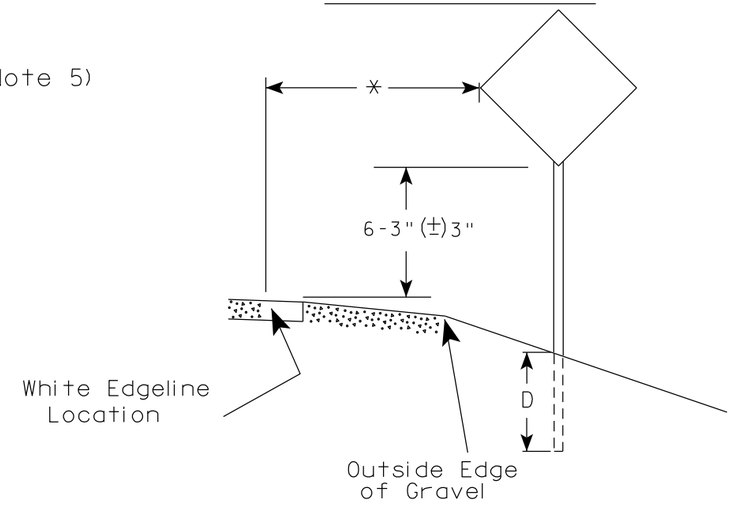
PROJECT NO:

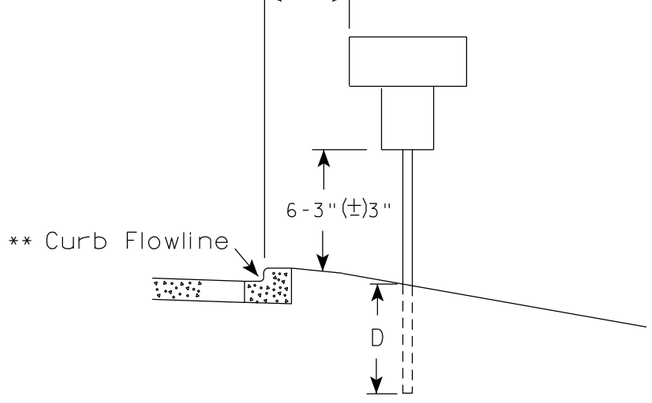
SHEET NO: 656 E

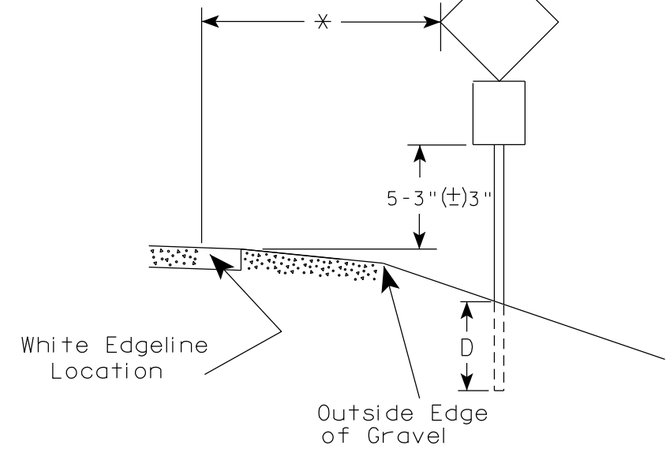
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

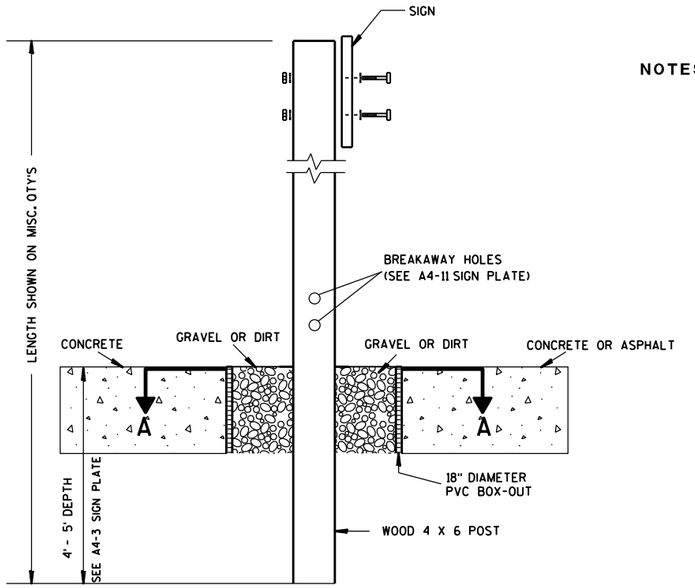
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

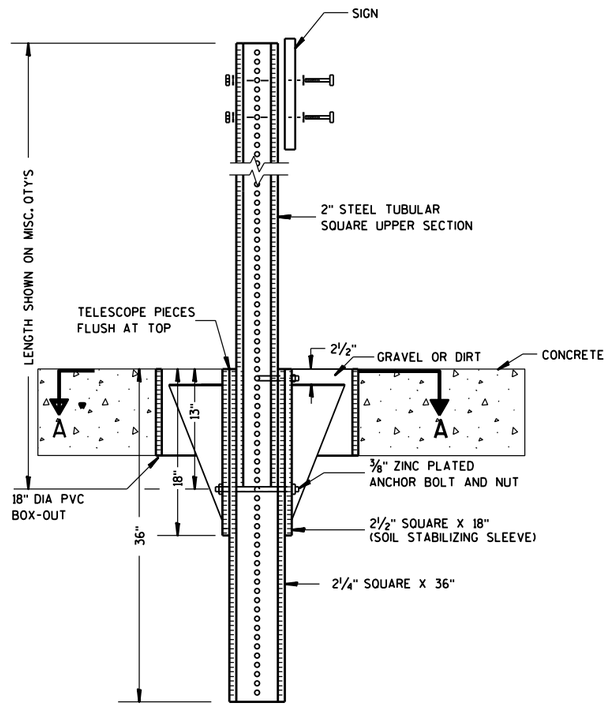
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 657	E



ELEVATION VIEW

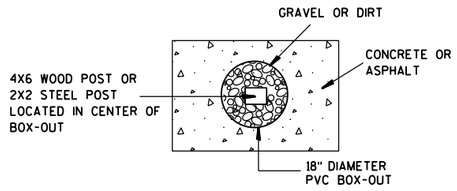
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

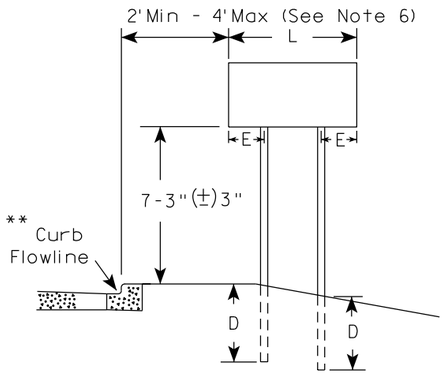
APPROVED Matthew R Rauch
for State Traffic Engineer

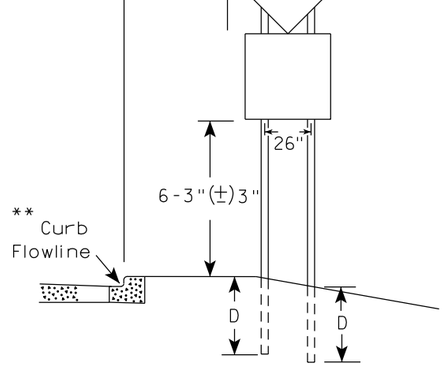
DATE 1/27/14 PLATE NO. A4-3B.1

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

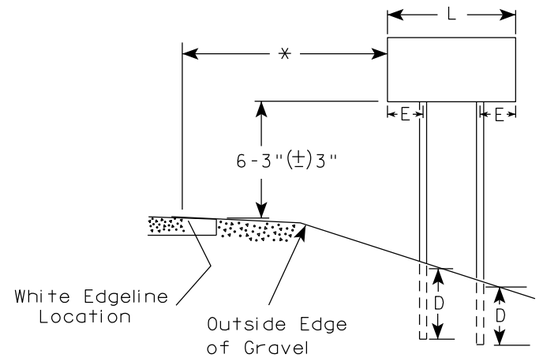
URBAN AREA

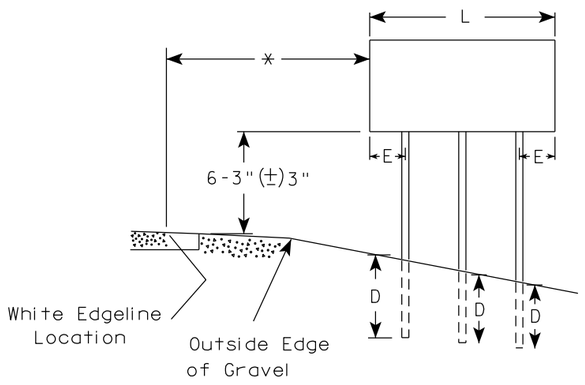


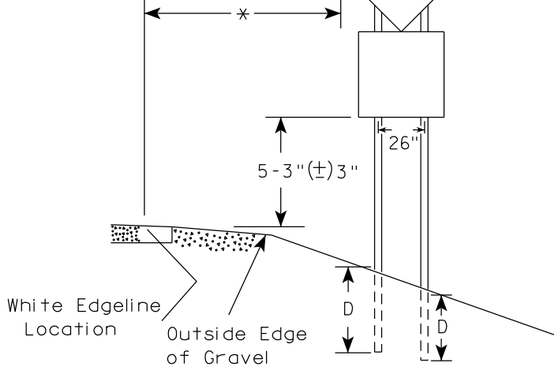


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

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

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

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

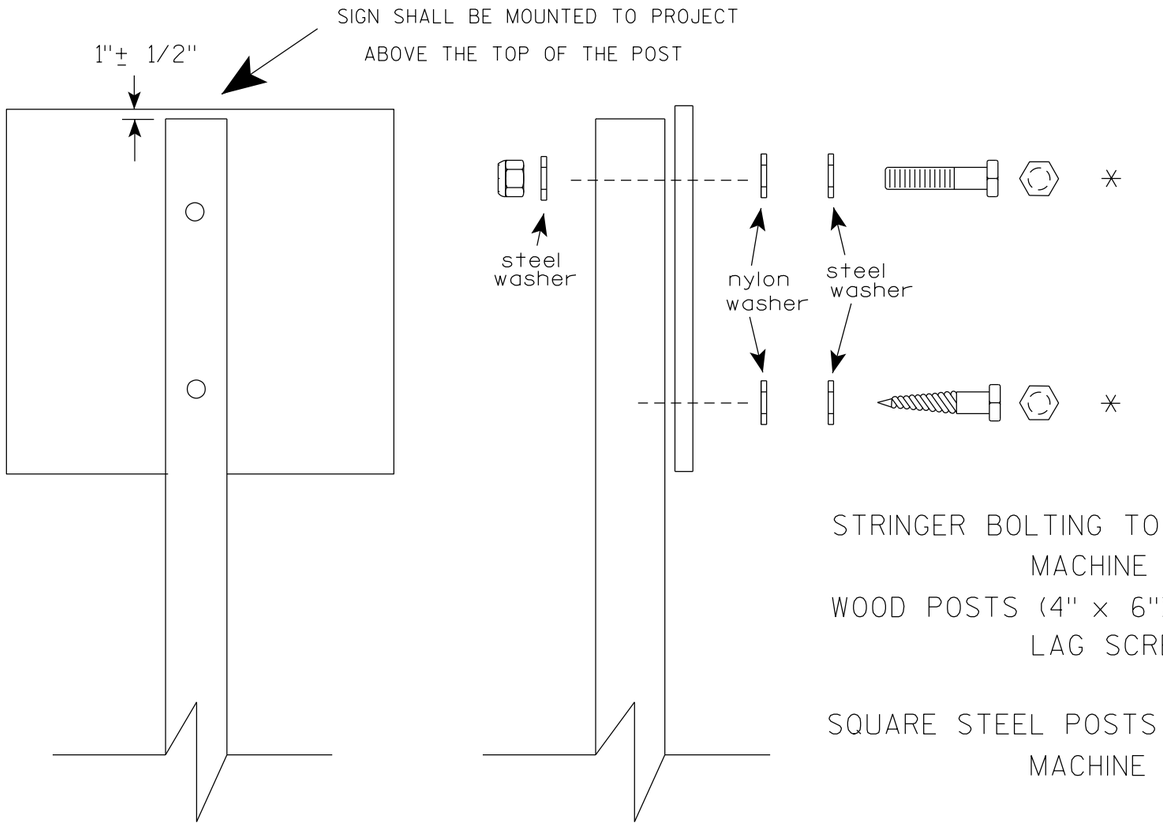
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 659	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

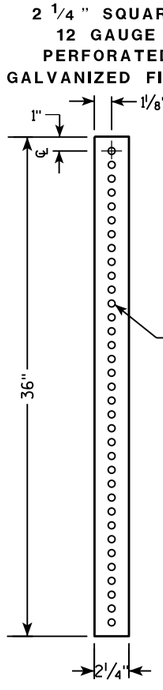
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

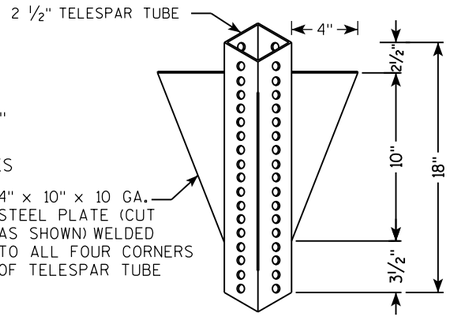
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

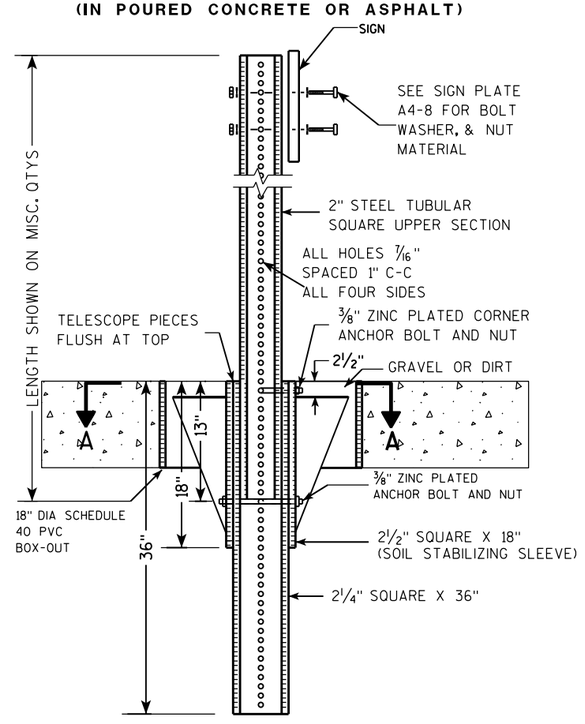
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



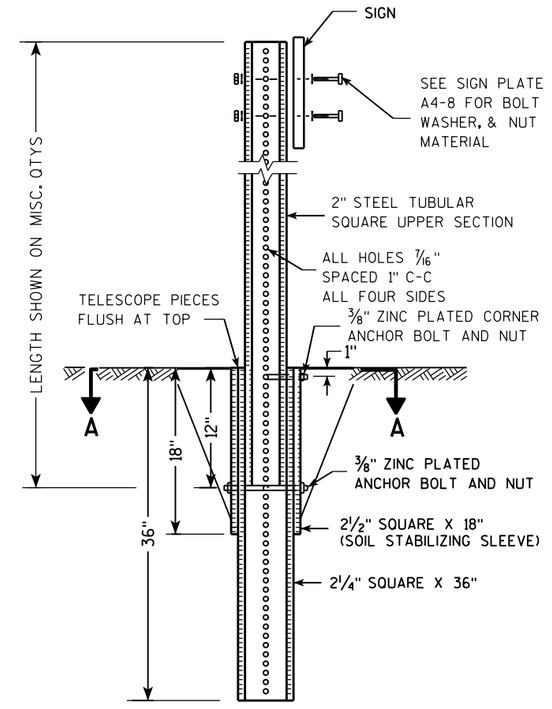
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

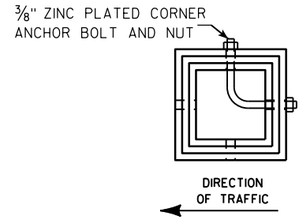


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

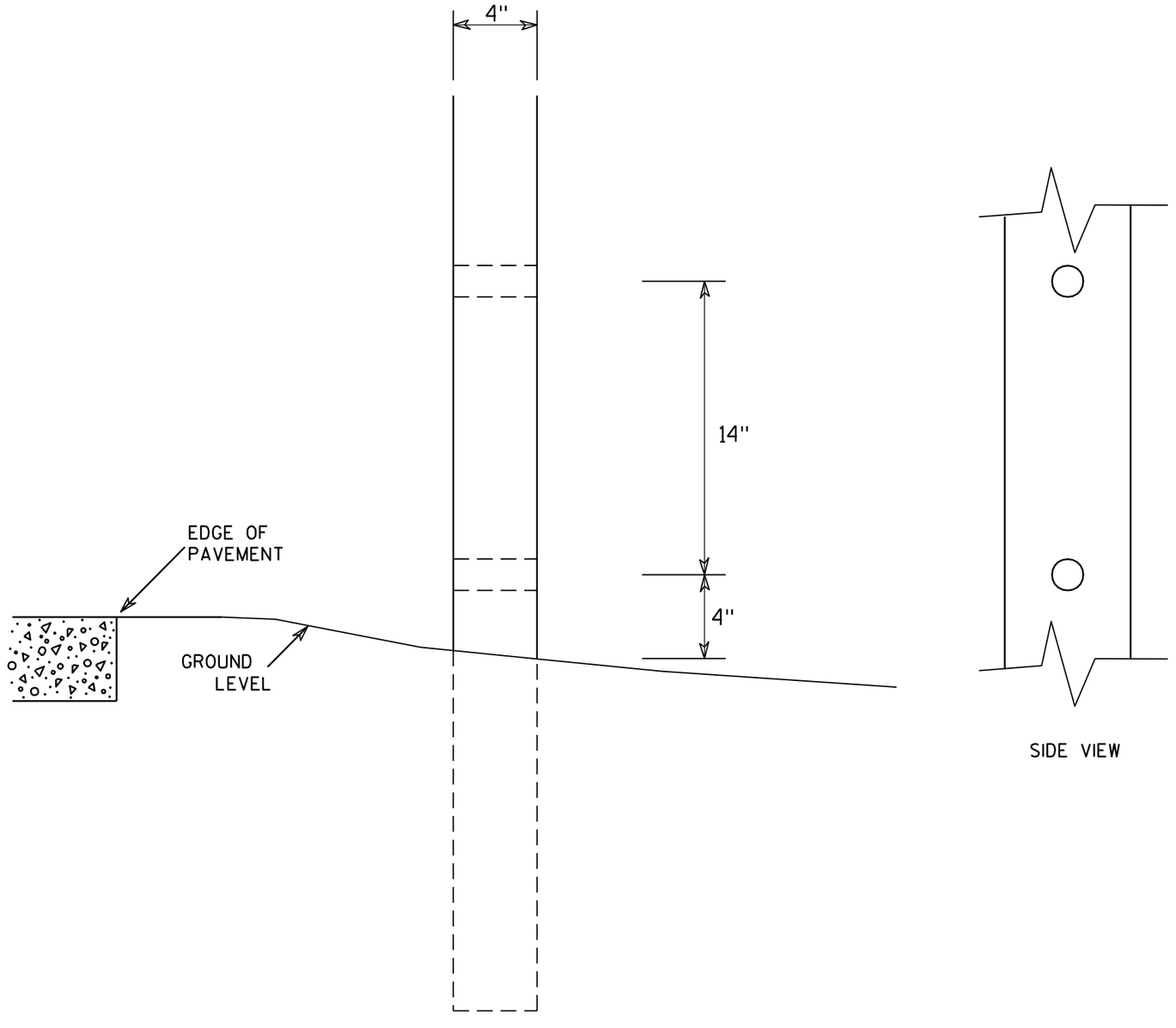
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 661 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

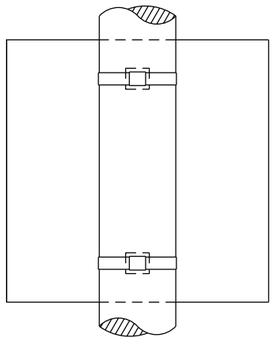
APPROVED Chester J Spang for State Traffic Engineer

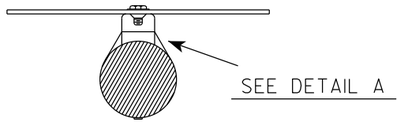
DATE 3/27/97 PLATE NO. A4-11.2

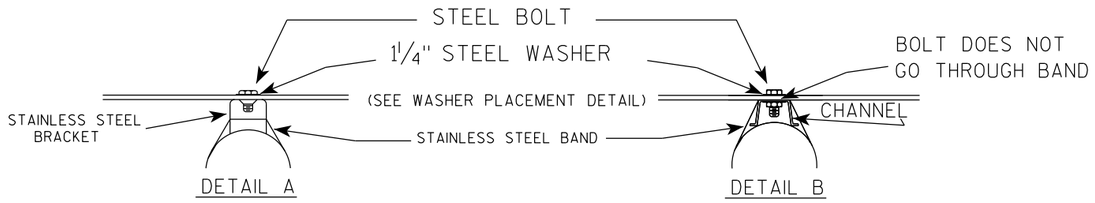
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 662	E

BANDING

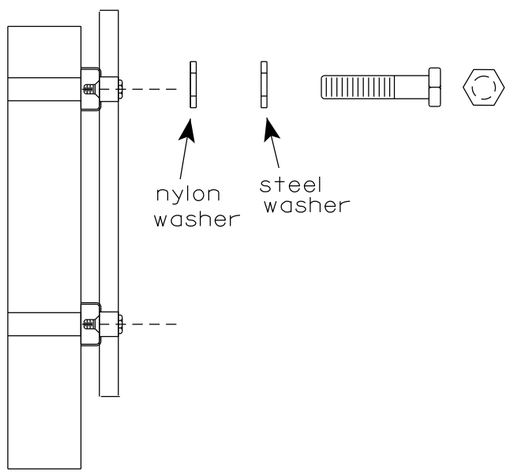
SINGLE SIGN







WASHER PLACEMENT

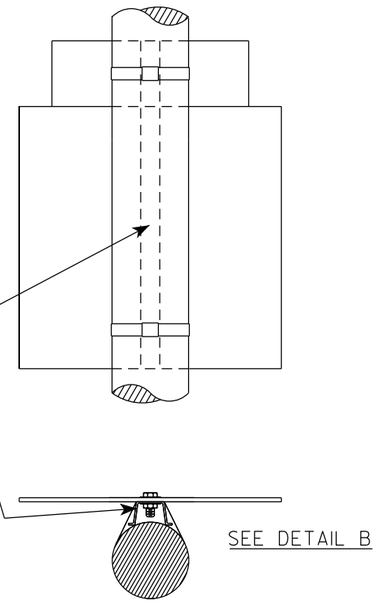


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

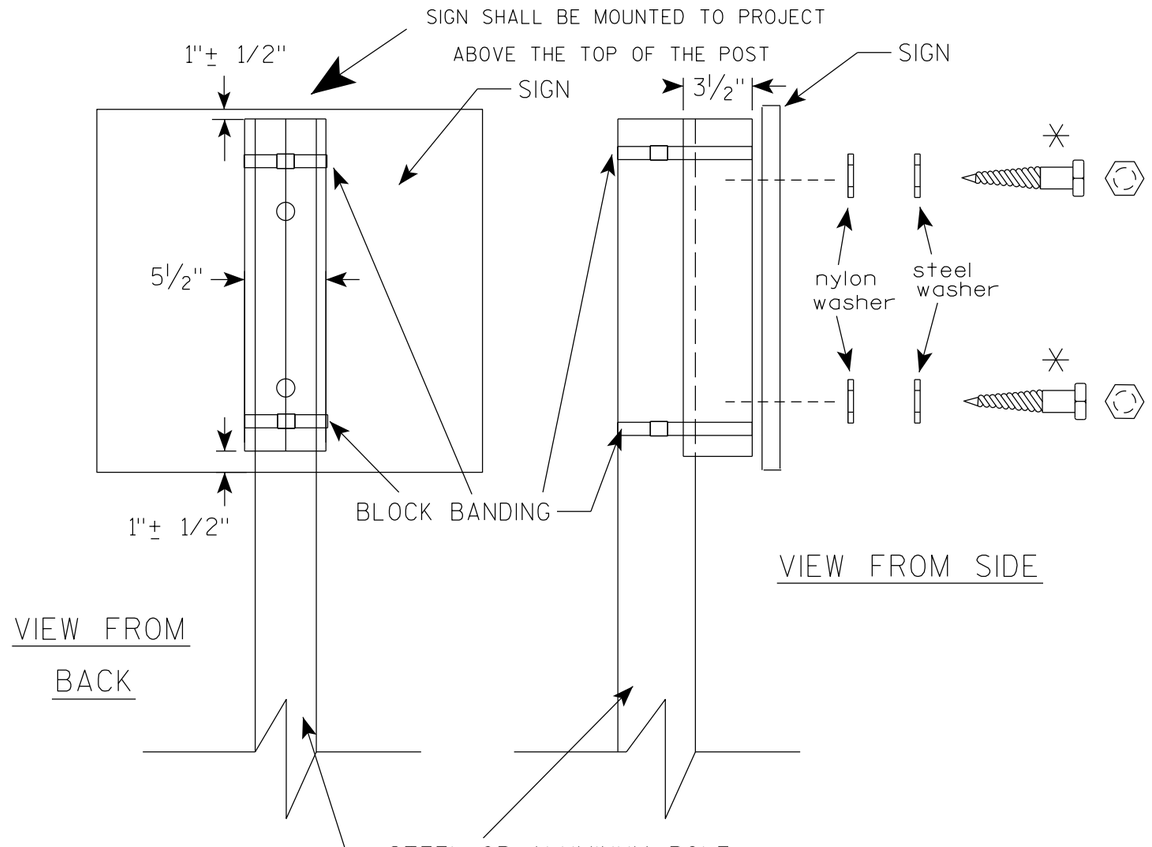
DATE 6/10/19 PLATE NO. A5-9.4

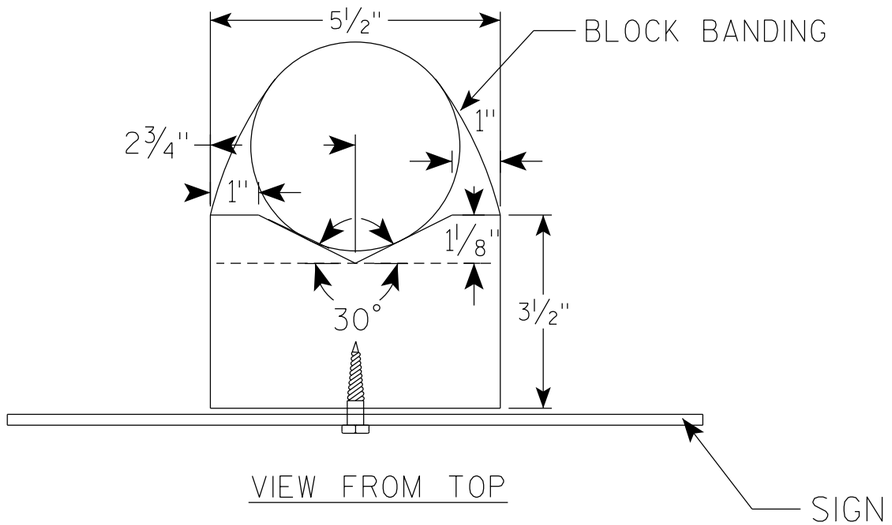
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 663	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

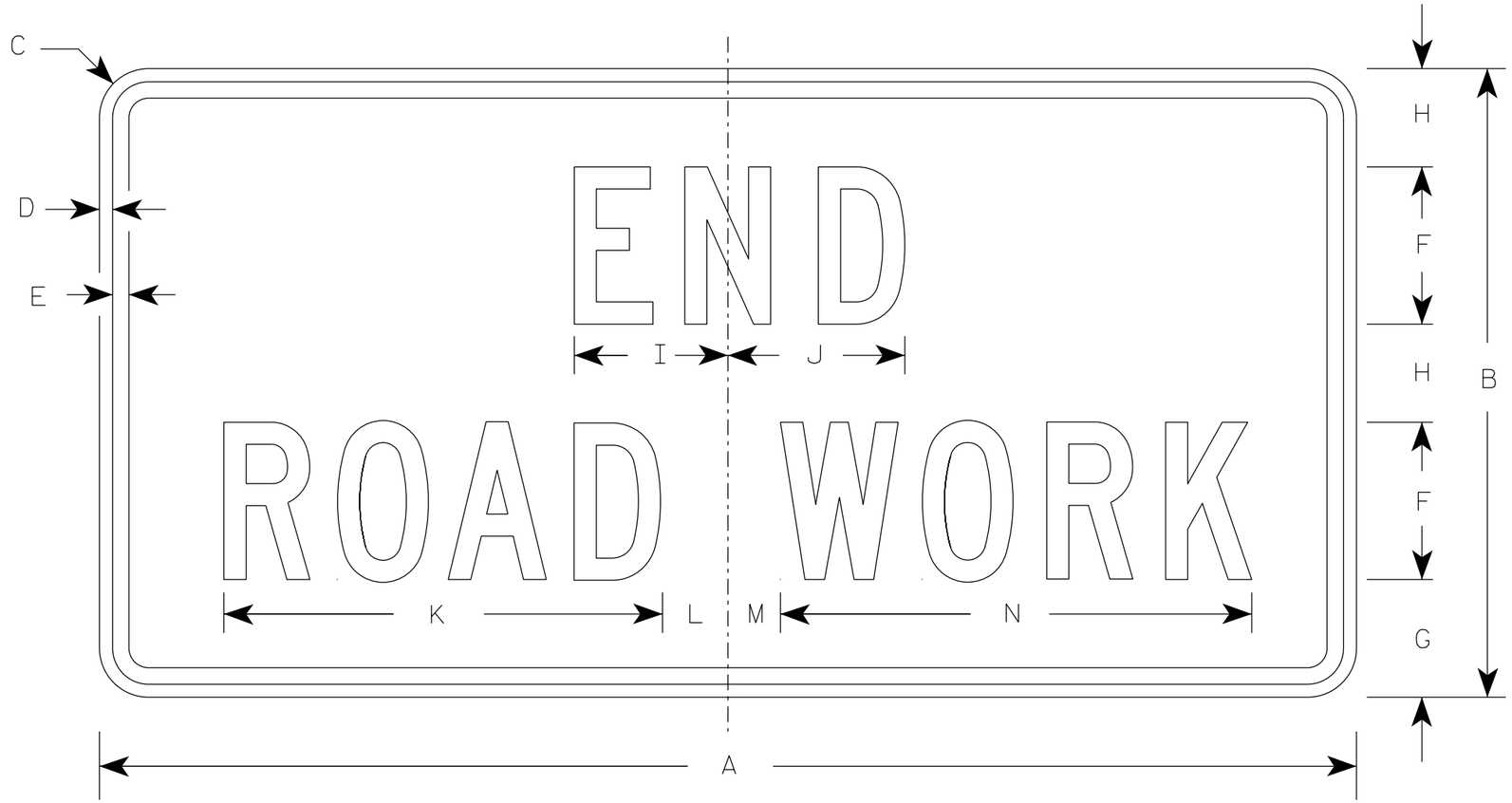
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 664 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

STANDARD SIGN

G20-2A

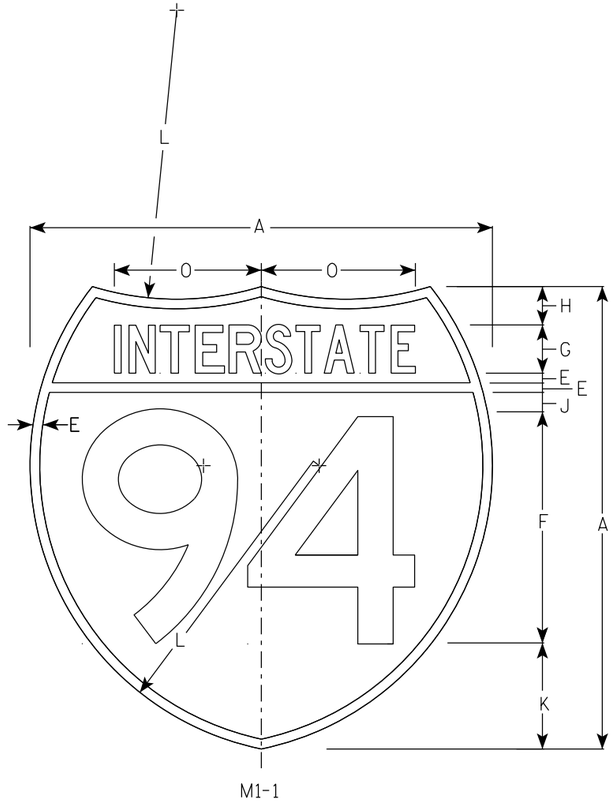
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

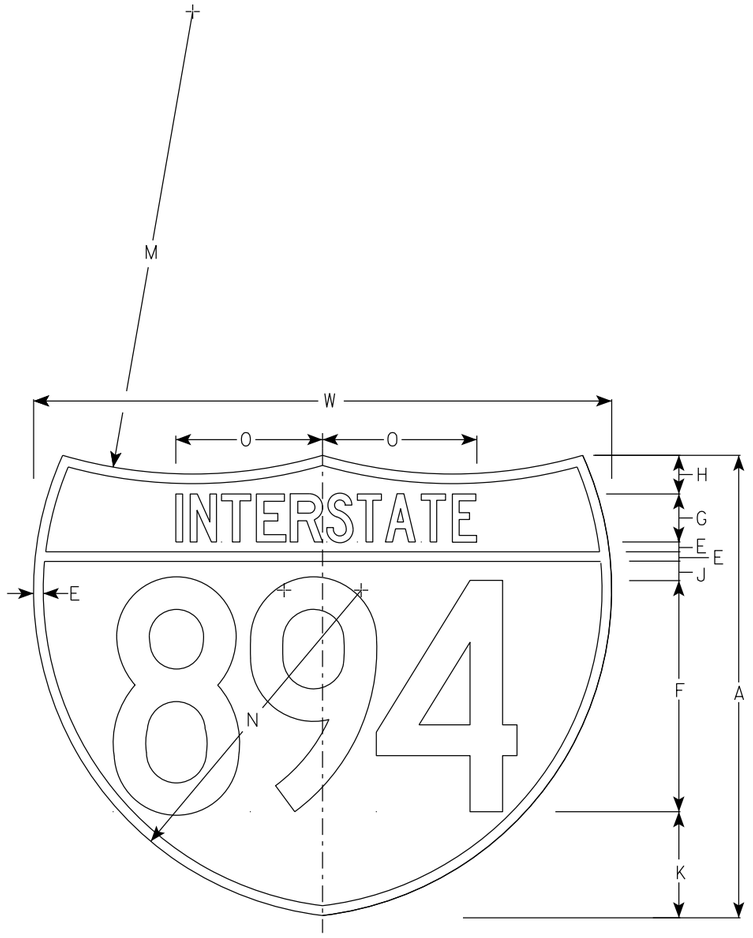
DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G202A.dgn PLOT DATE : 26-JAN 2023 8:27 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



M1-1



M1-1A

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Top Red - Bottom Blue
   Message - White
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - 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	M1-1 Area sq. ft.	M1-1A Area sq. ft.
1																											
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91
2M	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79

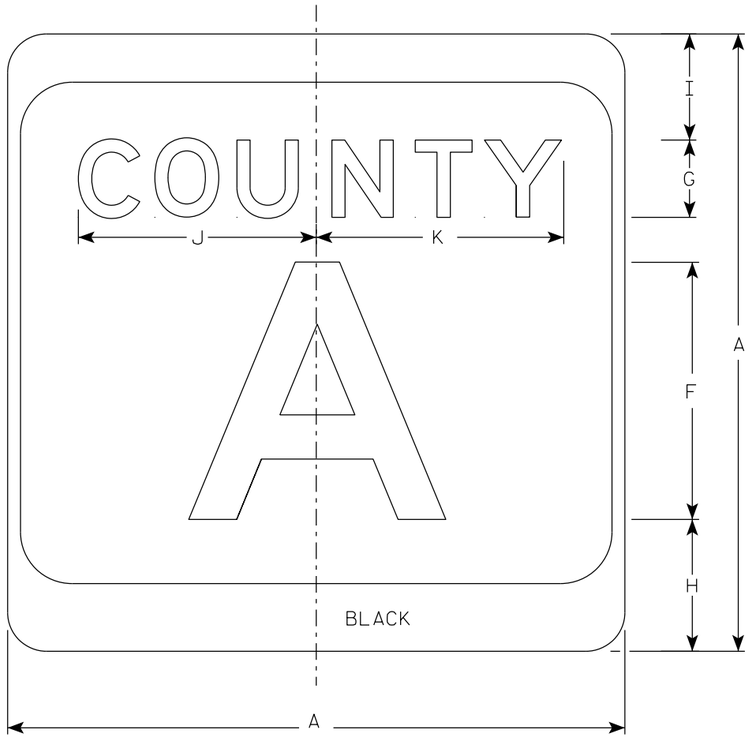
INTERSTATE ROUTE MARKER M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

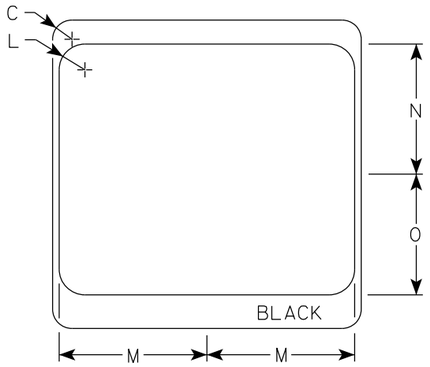
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 11/7/2022 PLATE NO. M1-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 666	E

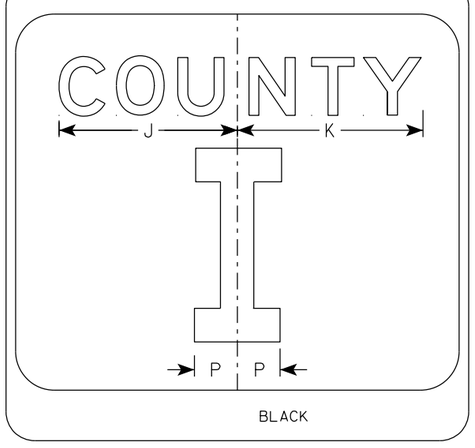


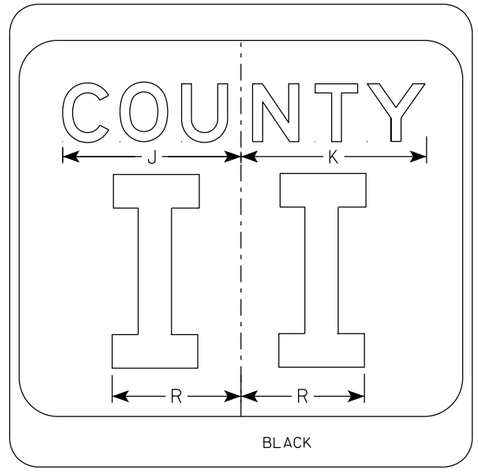
M1-5A



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White & Black
   Message - Black
3. Message Series - see Note 4
4. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
5. Substitute appropriate letters & optically center 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	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

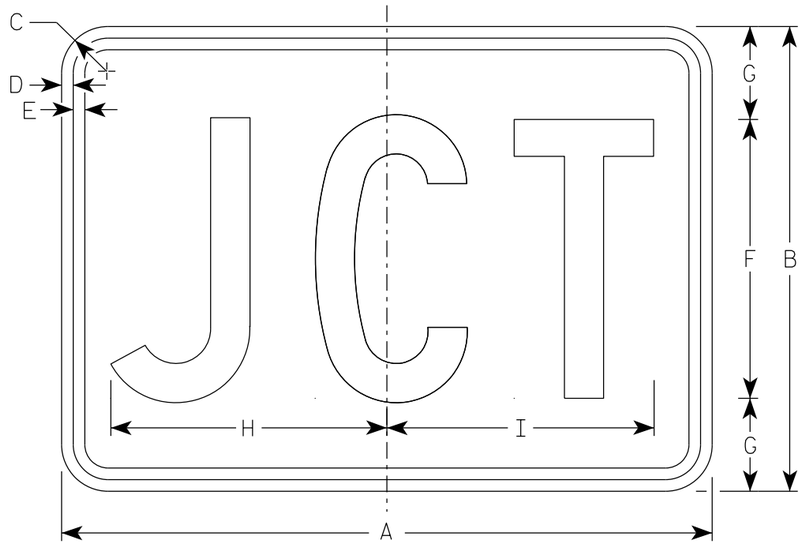
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-5A.9

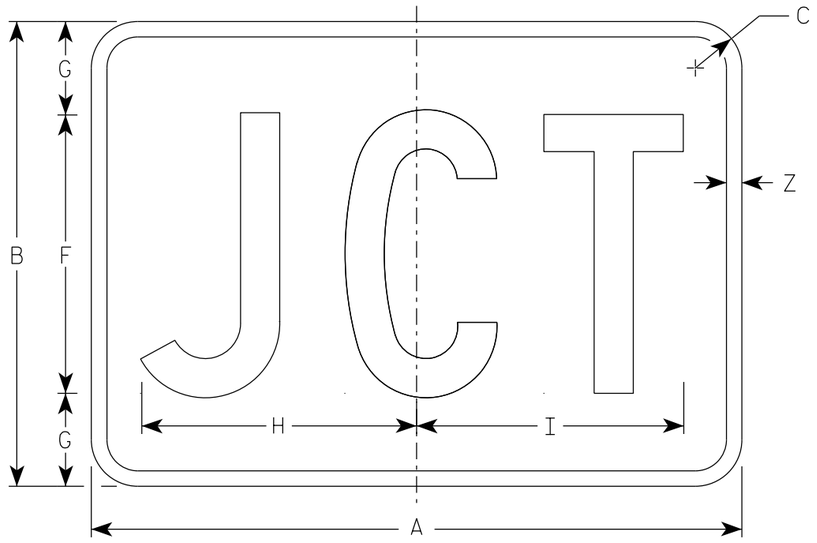
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M15A.dgn PLOT DATE : 8-NOV 2022 8:26 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 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																											
2S	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
2M	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
3	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
4	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
5	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40

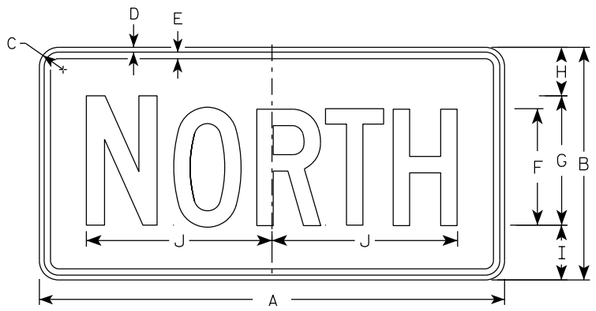
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

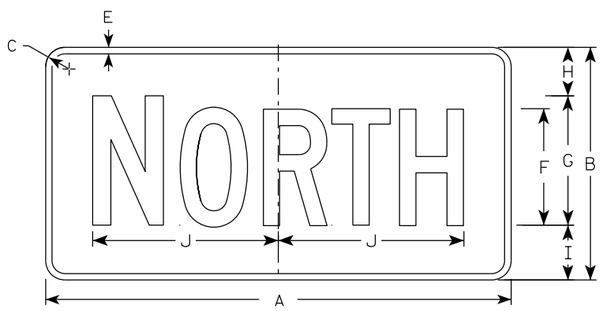
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/8/2023 PLATE NO. M2-1.14

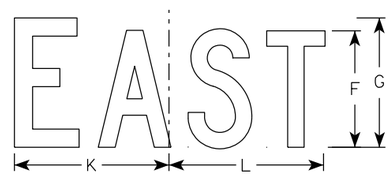
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 668 | E



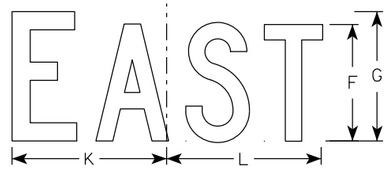
M3-1
MM3-1
MP3-1



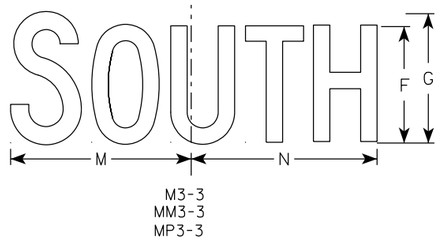
MB3-1
MK3-1
MN3-1



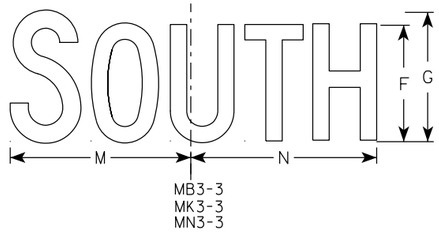
M3-2
MM3-2
MP3-2



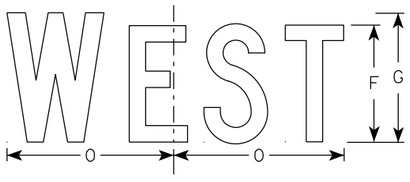
MB3-2
MK3-2
MN3-2



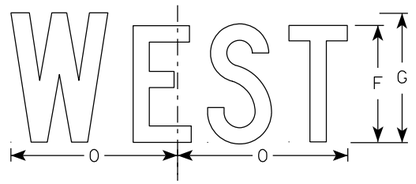
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

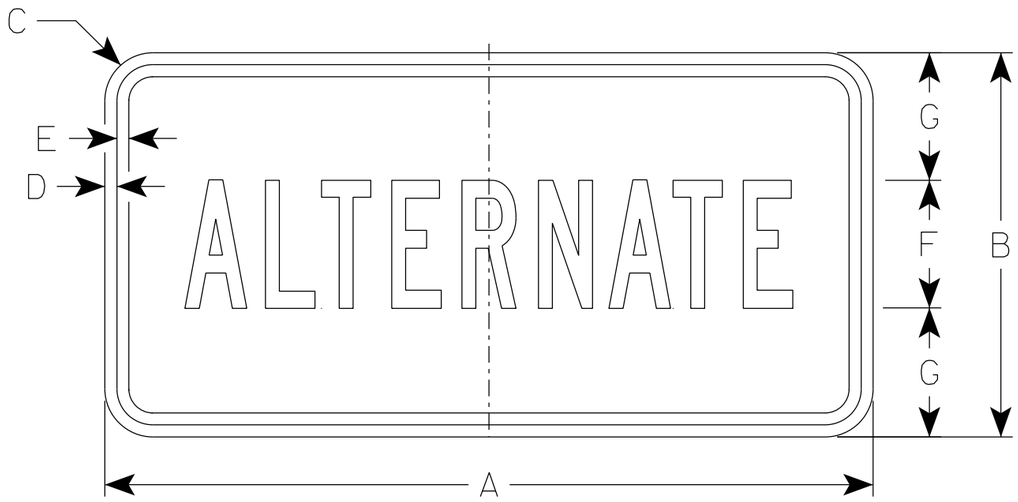
STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 669 | E



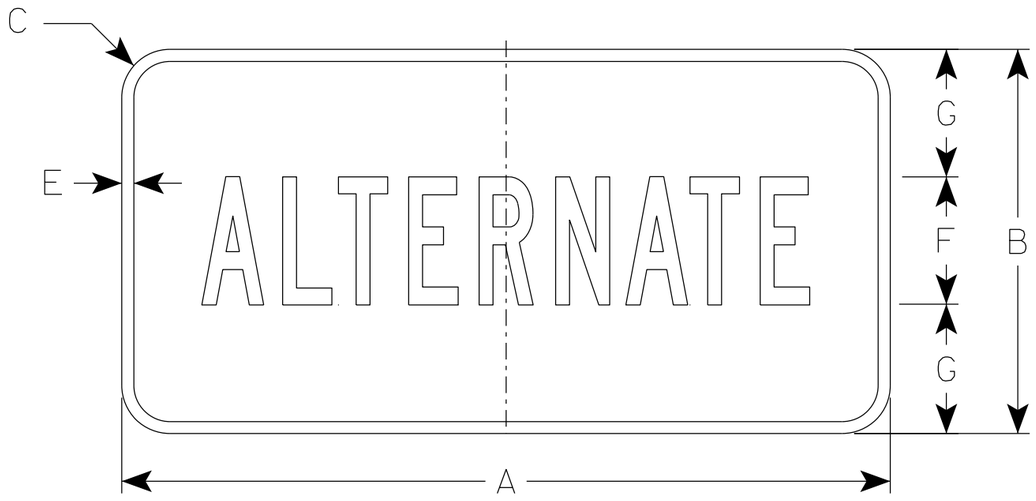
M4-1
MO4-1

NOTES

1. Sign is Type II - Type H Reflective except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   MO4-1 Background - Orange - Type F Reflective
   Message - Black



MB4-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	4	4	9 3/4	9 1/2																		2.00
2M	24	12	1 1/2	3/8	3/8	4	4	9 3/4	9 1/2																		2.00
3	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5

STANDARD SIGN
M4-1

WISCONSIN DEPT OF TRANSPORTATION

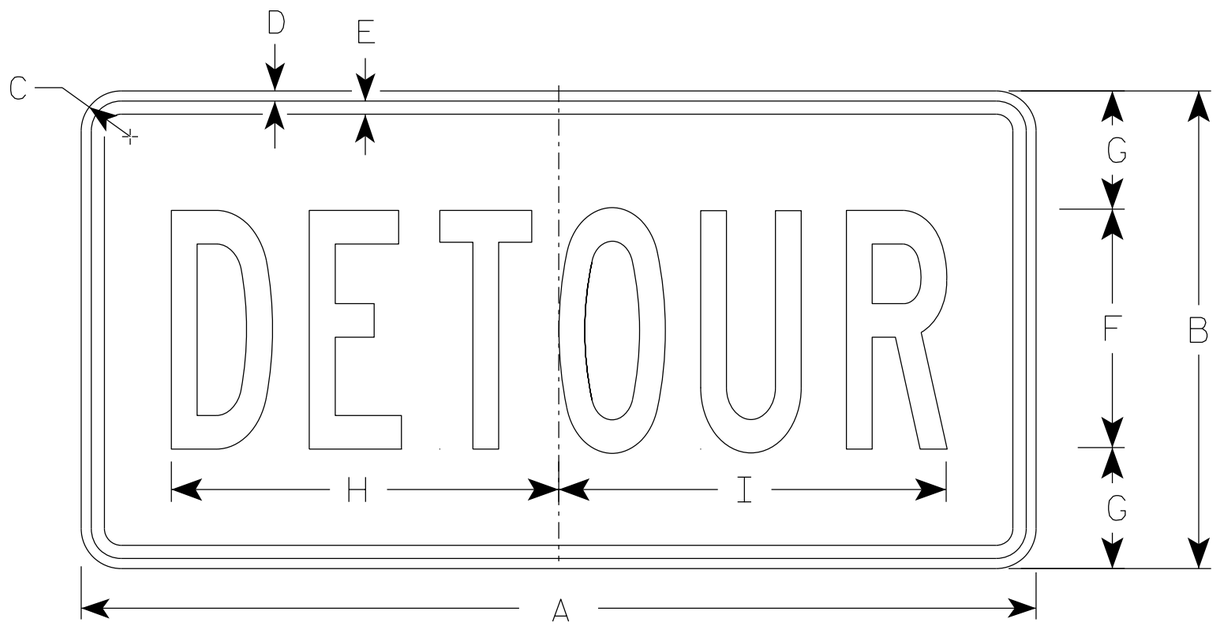
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/8/2023 PLATE NO. M4-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 670 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M4-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

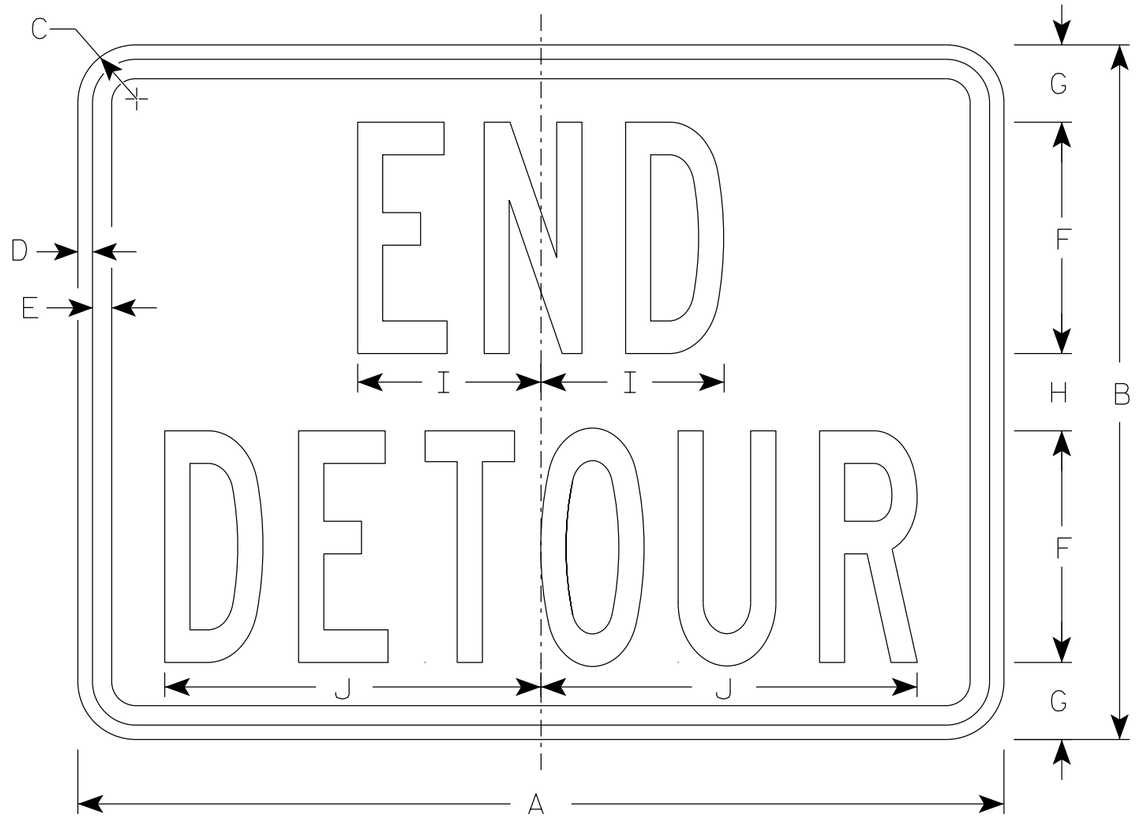
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 671	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

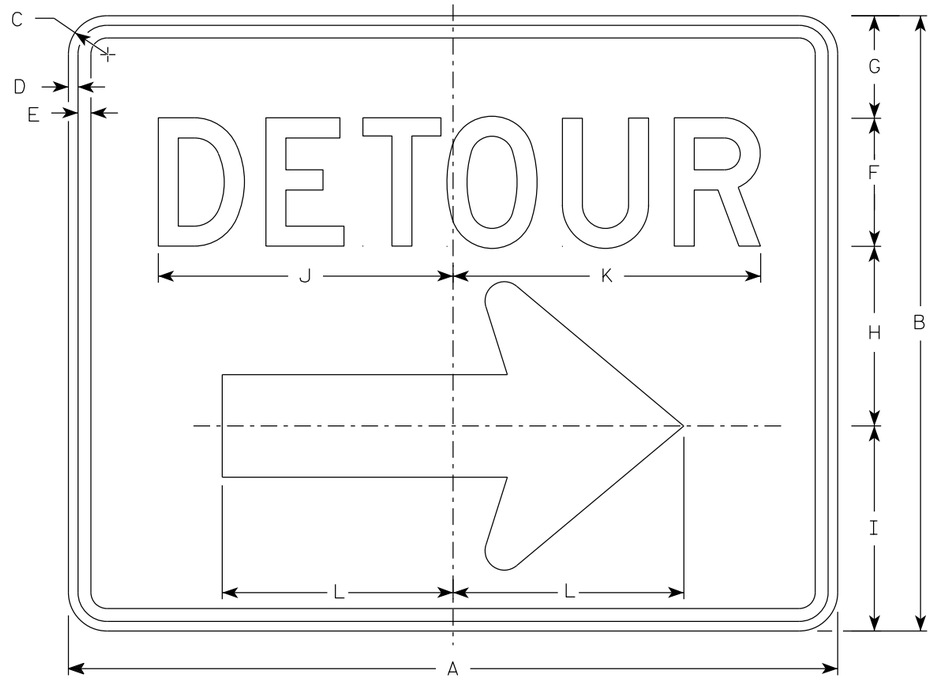
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

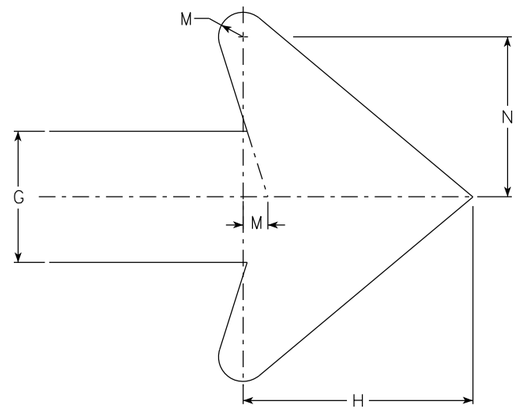
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 672 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

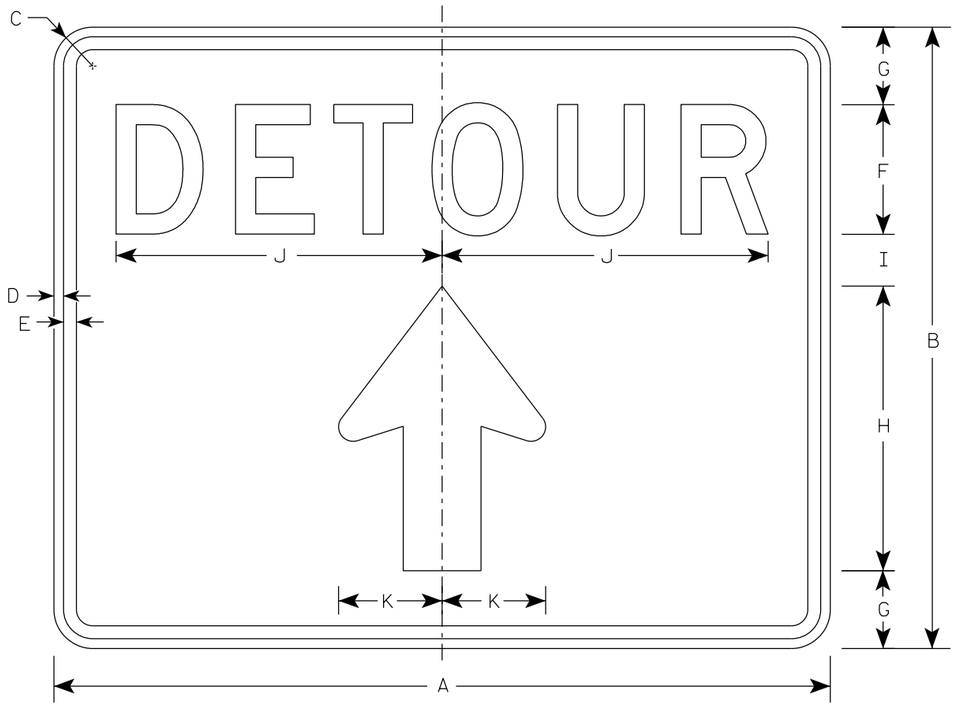
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

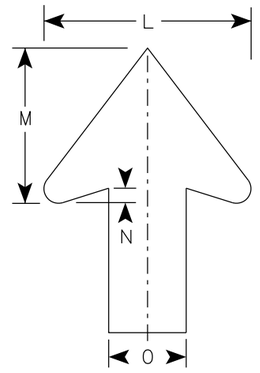
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



M4-9RA



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 1/2	3/8	1/2	5	3	11	2	12 5/8	4	8	6	1/2	3												5.00
2M	30	24	1 1/2	3/8	1/2	5	3	11	2	12 5/8	4	8	6	1/2	3												5.00
3																											
4																											
5																											

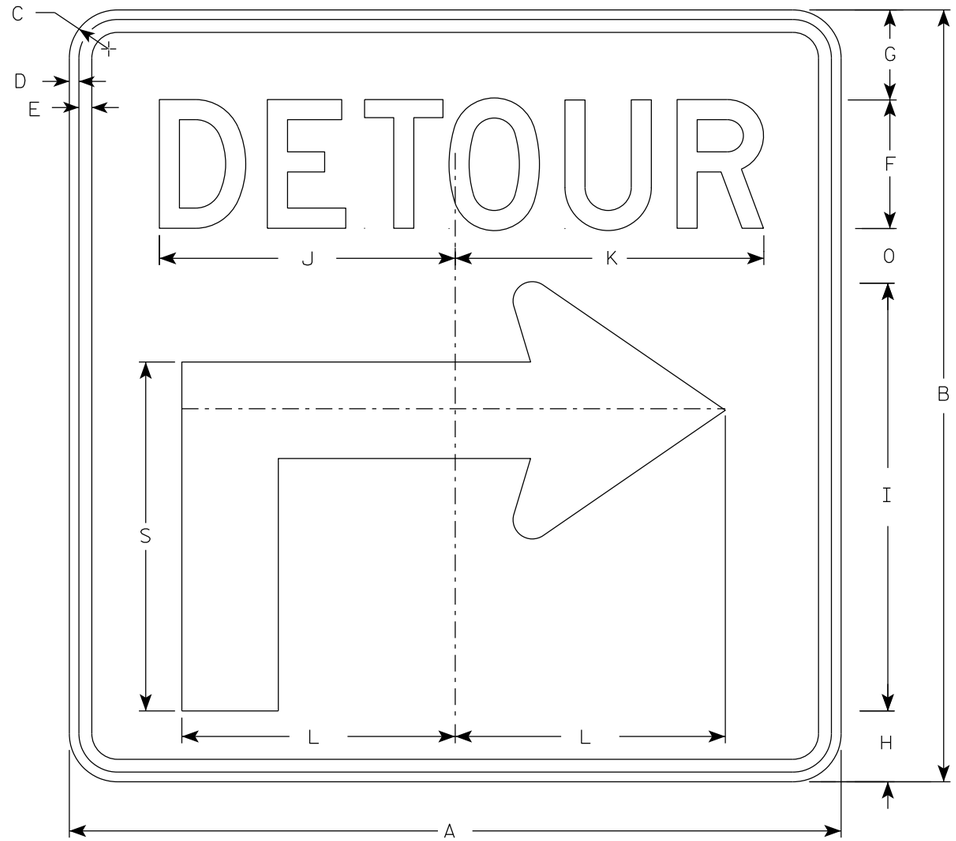
STANDARD SIGN
M4-9RA

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9RA.3

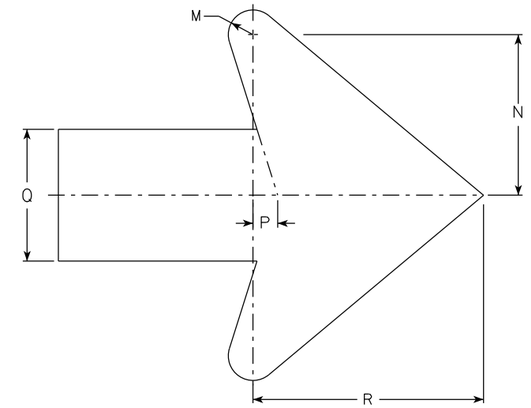
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 674	E



M4-59R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown when base material is metal.
5. M4-59L is the same as M4-59R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 1/4	2 1/8	5/8	3 3/4	7 1/2	13 1/2								6.25
2M	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 1/4	2 1/8	5/8	3 3/4	7 1/2	13 1/2								6.25
3	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 1/4	2 1/8	5/8	3 3/4	7 1/2	13 1/2								6.25
4	48	48	2 1/4	1/2	5/8	8	5 5/8	4 3/8	26 5/8	20 5/8	20 1/2	17	1 1/4	6 3/4	3 3/8	7/8	6	12	21 3/4								16.0
5	48	48	2 1/4	1/2	5/8	8	5 5/8	4 3/8	26 5/8	20 5/8	20 1/2	17	1 1/4	6 3/4	3 3/8	7/8	6	12	21 3/4								16.0

STANDARD SIGN
M4-59 L&R

WISCONSIN DEPT OF TRANSPORTATION

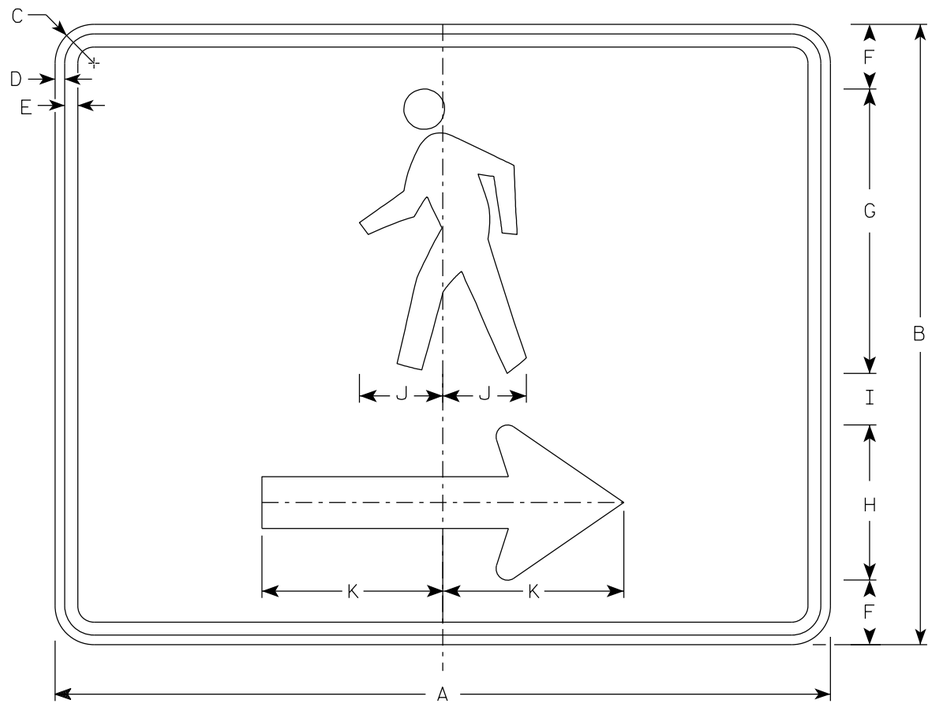
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/10/26 PLATE NO. M4-59.3

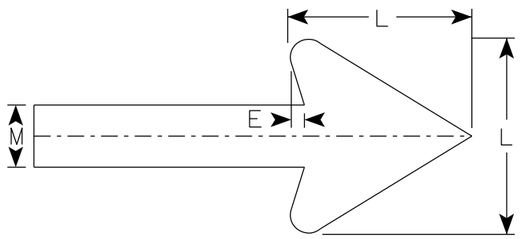
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 675	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-60L is the same as M4-60R except the arrow is reversed.



M4-60R



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 ½	⅜	½	2 ½	11	6	2	3 ¼	7	6	2														5.00
2M	30	24	1 ½	⅜	½	2 ½	11	6	2	3 ¼	7	6	2														5.00
3																											
4																											
5																											

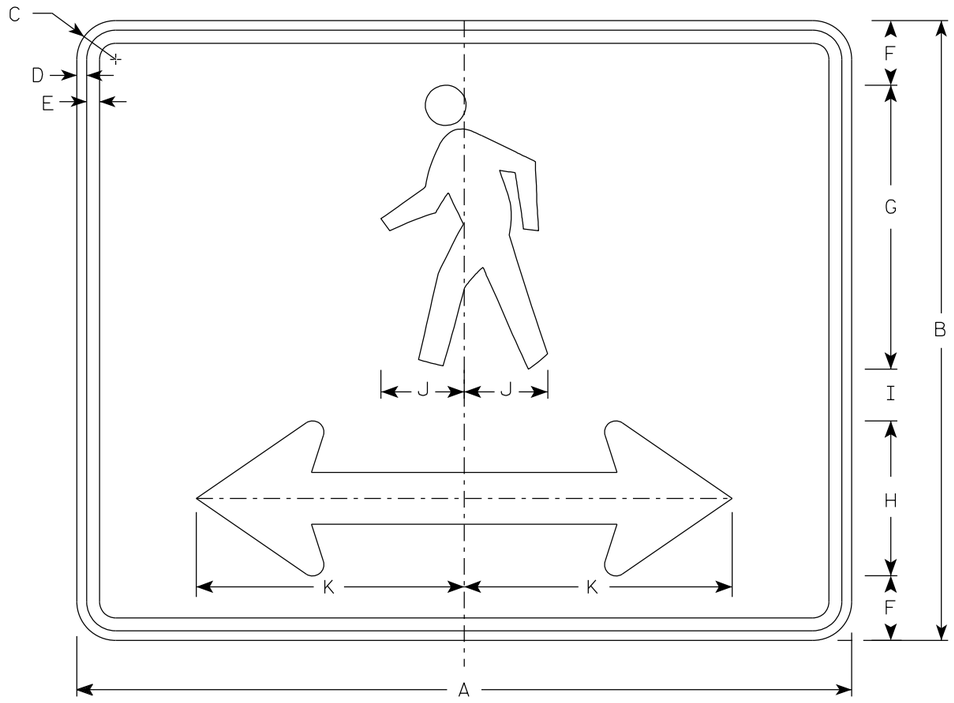
STANDARD SIGN
M4-60 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/14/2023 PLATE NO. M4-60.2

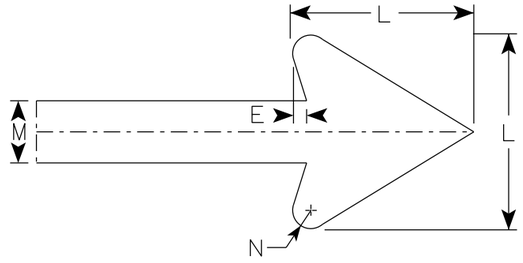
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 676 | E



M4-60D

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 1/2	3/8	1/2	2 1/2	11	6	2	3 1/4	10 3/8	6	2	3/8													5.00
2M	30	24	1 1/2	3/8	1/2	2 1/2	11	6	2	3 1/4	10 3/8	6	2	3/8													5.00
3																											
4																											
5																											

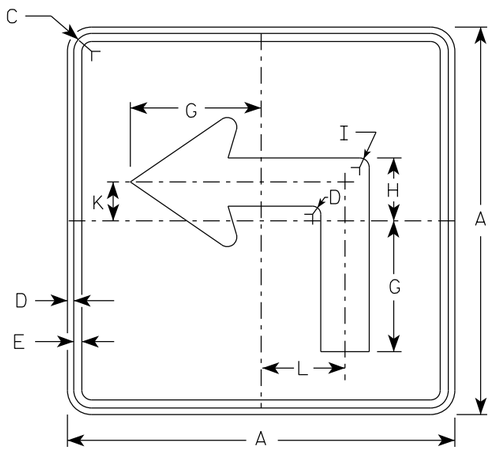
STANDARD SIGN
M4-60D

WISCONSIN DEPT OF TRANSPORTATION

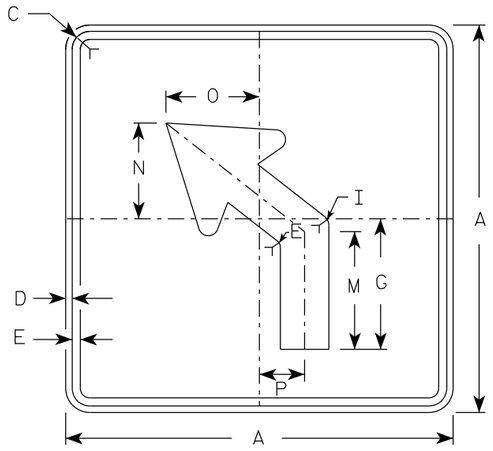
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/14/2023 PLATE NO. M4-60D.2

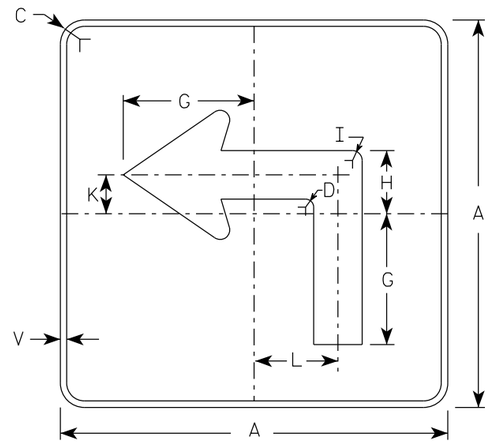
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 677 | E



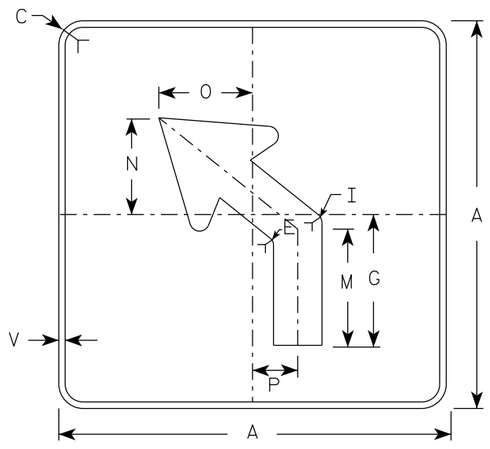
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

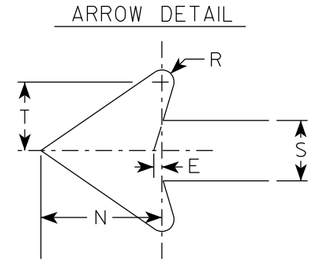


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

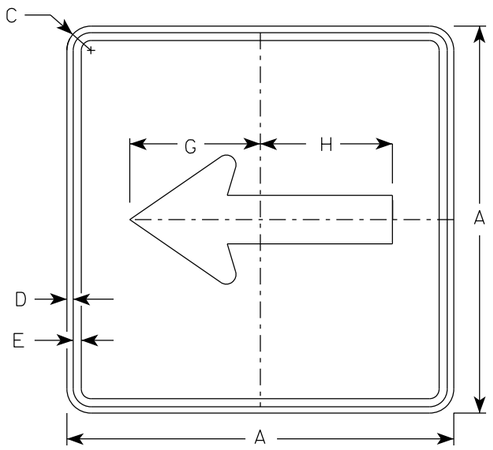
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

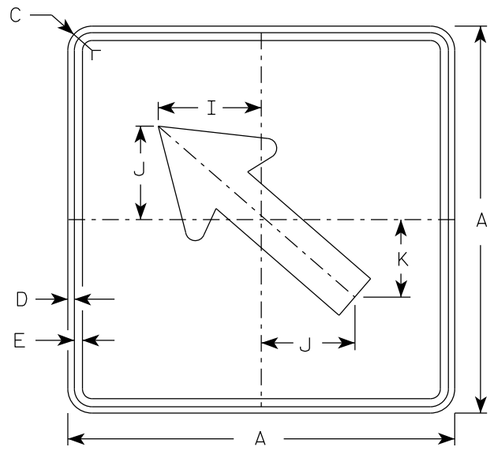
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

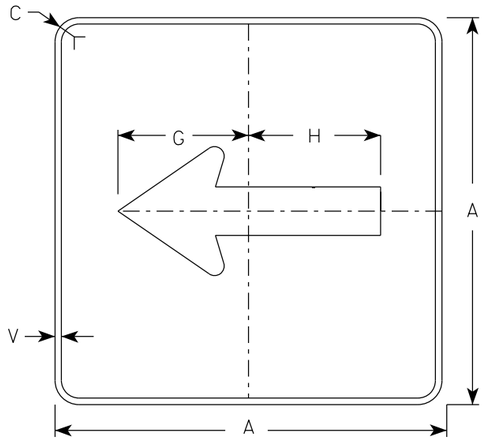
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 678 | E



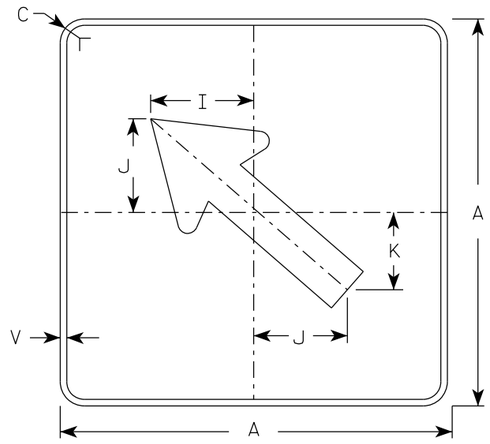
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

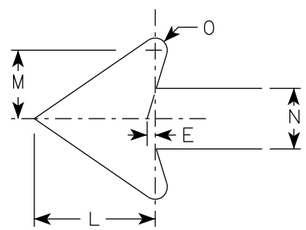


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

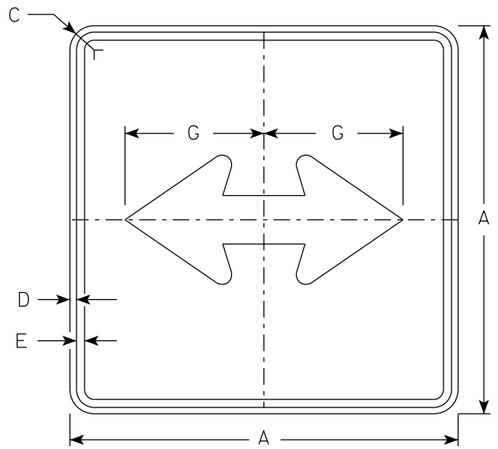
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

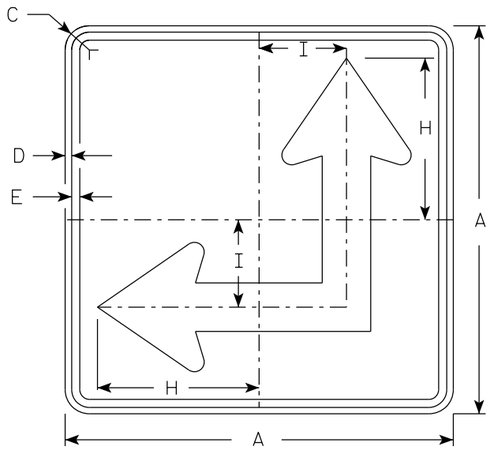
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

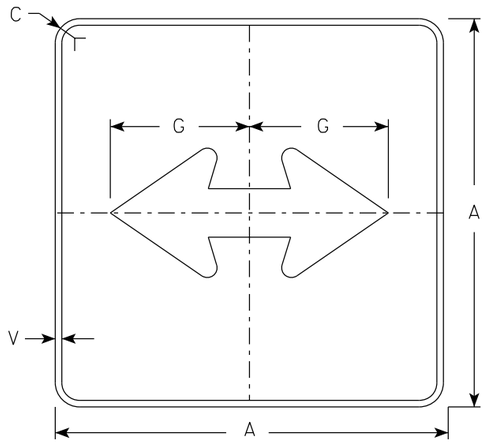
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 679 | E



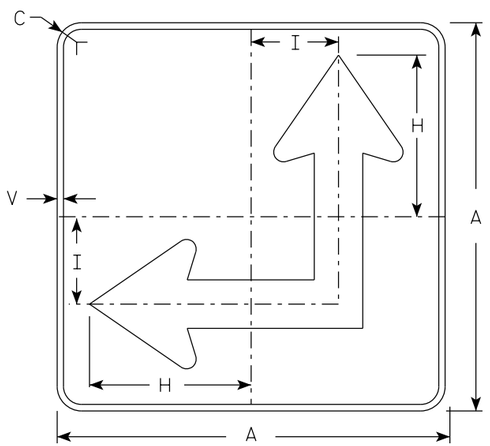
M6-4
MM6-4
MO6-4
MP6-4



M6-6
MM6-6
MO6-6
MP6-6



MB6-4
MK6-4
MN6-4
MR6-4

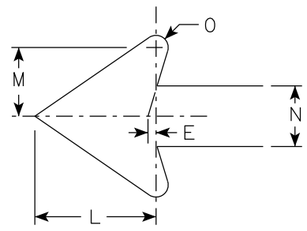


MB6-6
MK6-6
MN6-6
MR6-6

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 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.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

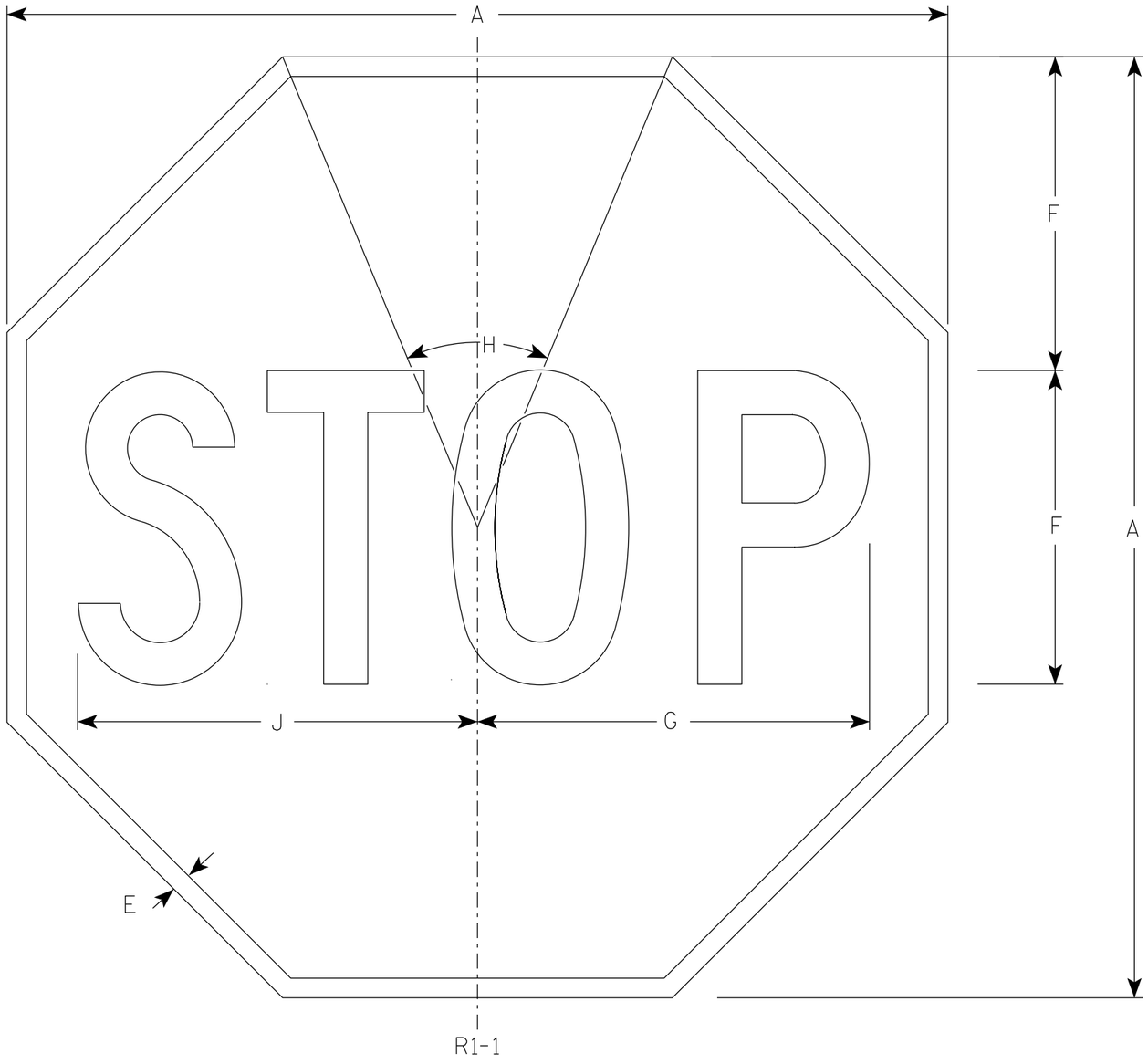
STANDARD SIGN
M6-4 & M6-6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 680 | E



NOTES

1. Sign is Type II - Type H Reflective
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

STANDARD SIGN
R1-1

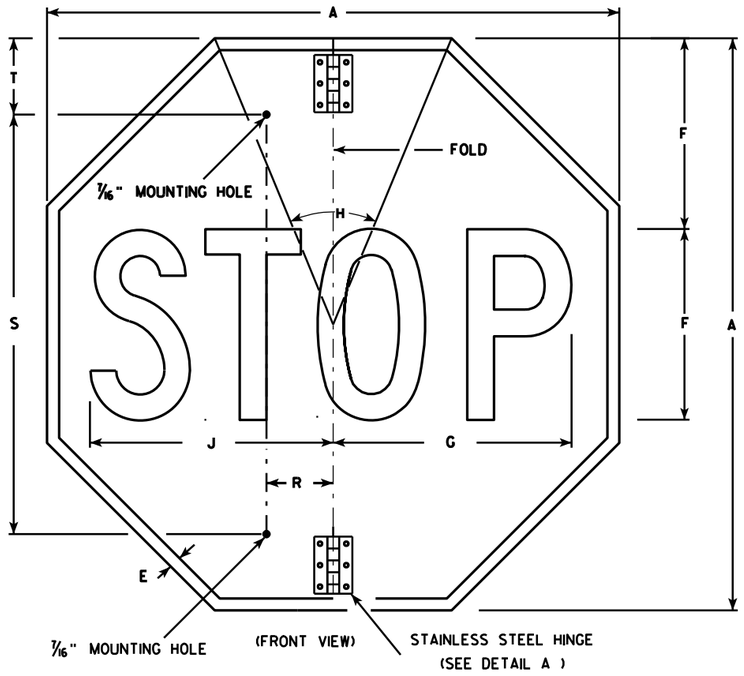
WISCONSIN DEPT OF TRANSPORTATION

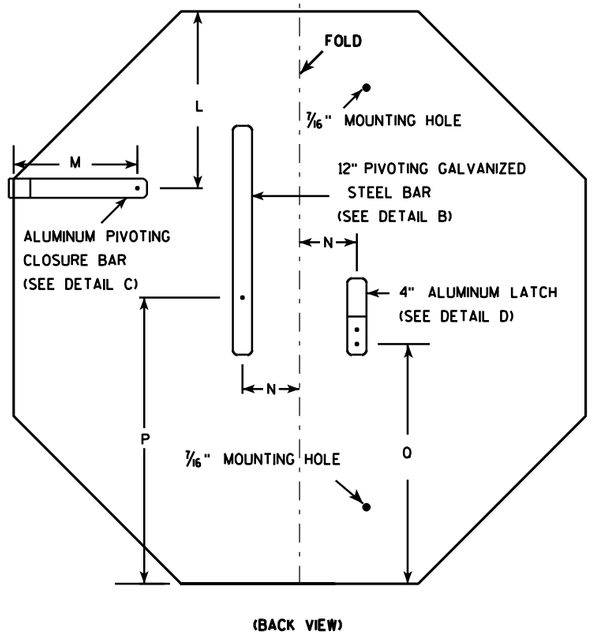
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/9/2025 PLATE NO. R1-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 681 E

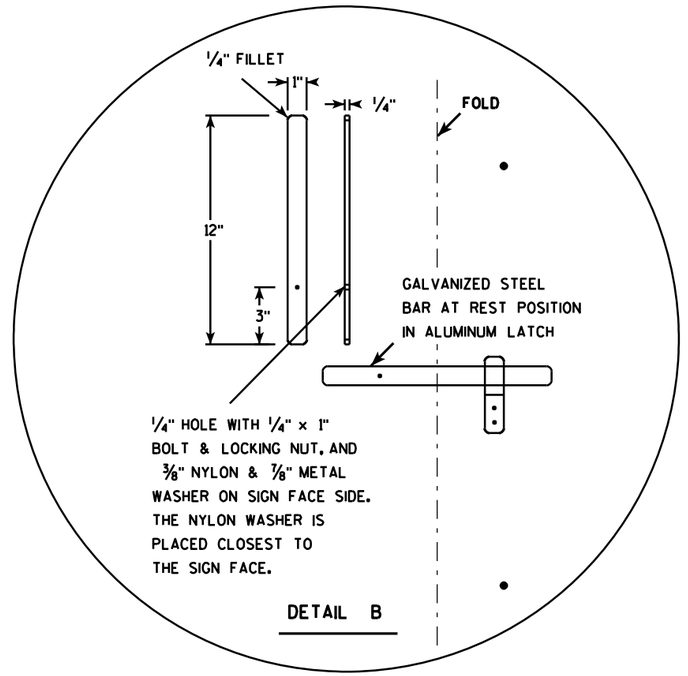
7

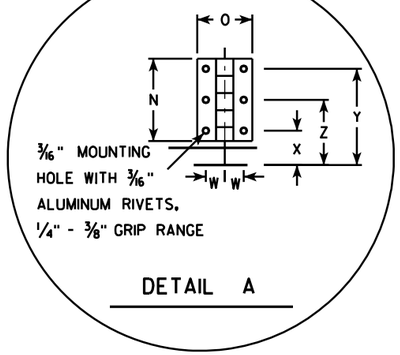


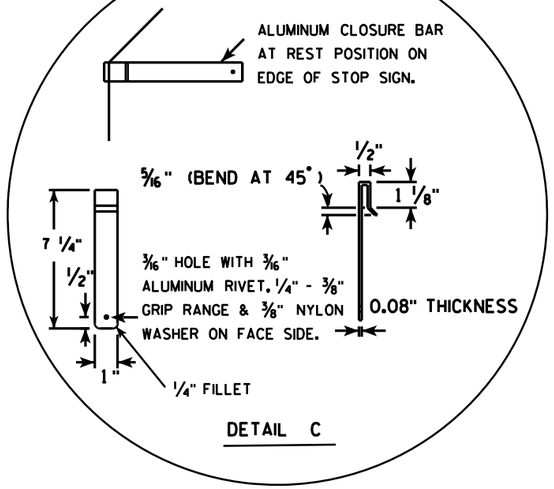


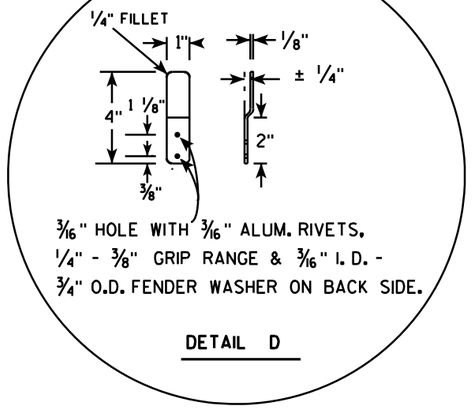
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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.









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																											

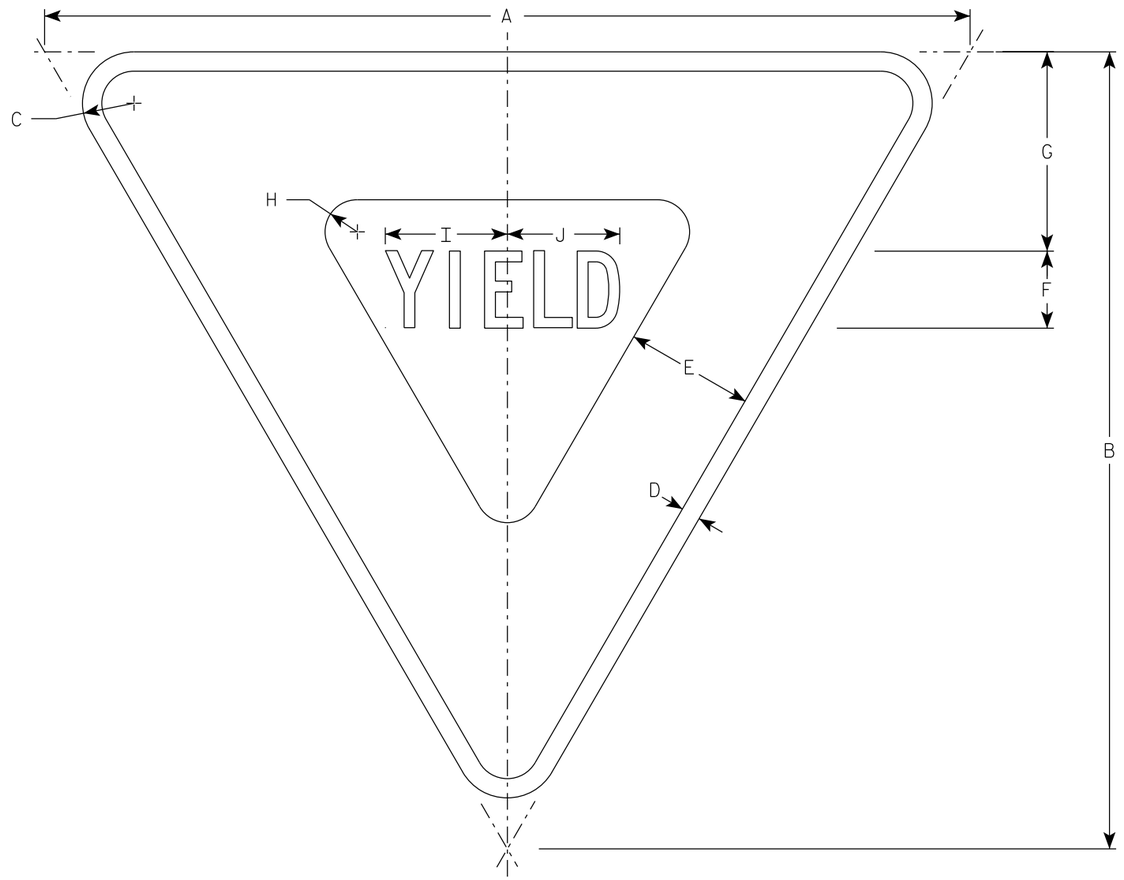
STANDARD SIGN
R1-1F

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: 682	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 4
3. Message Series - C
4. 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	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

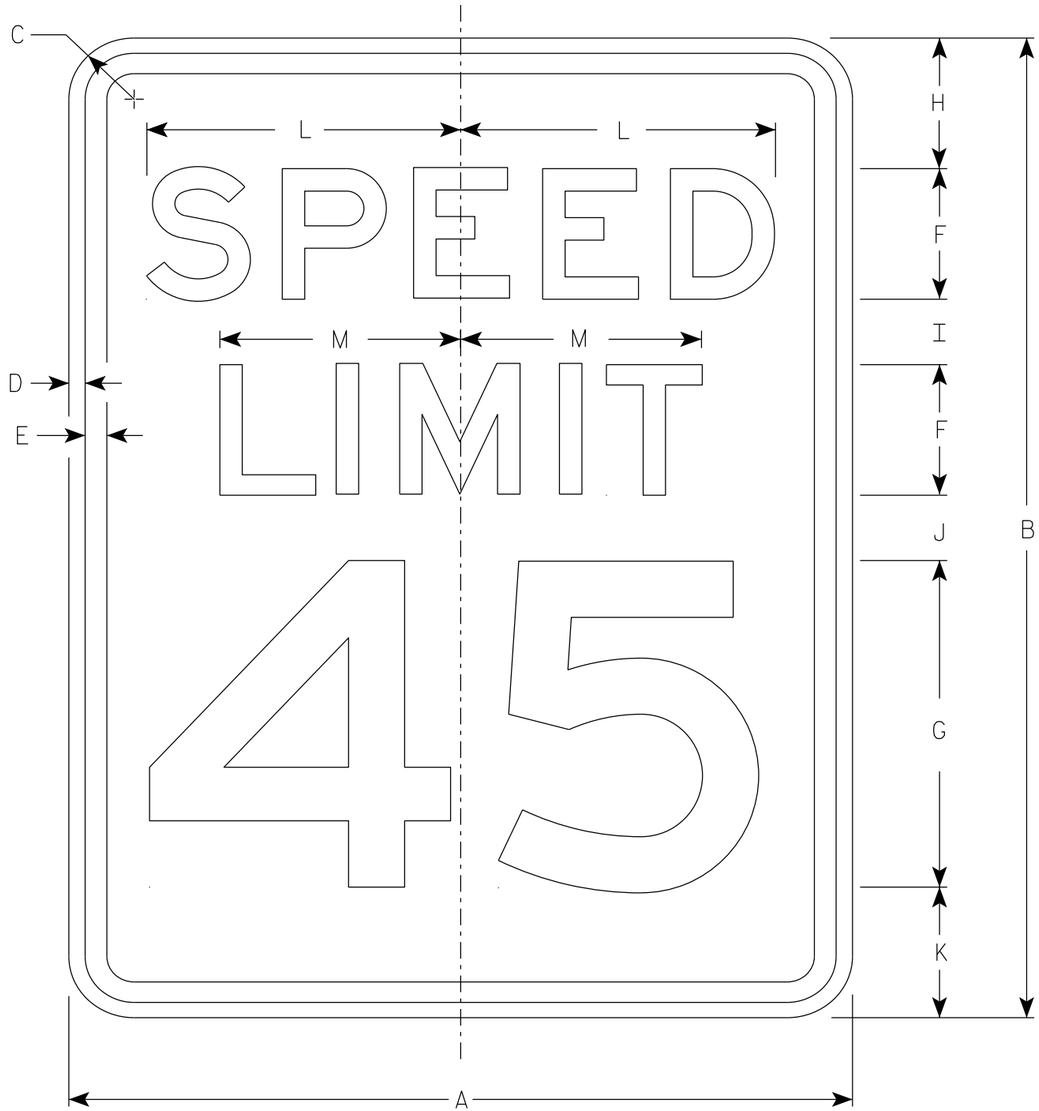
STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/10/2024 PLATE NO. R1-2.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 683	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. 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 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	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 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

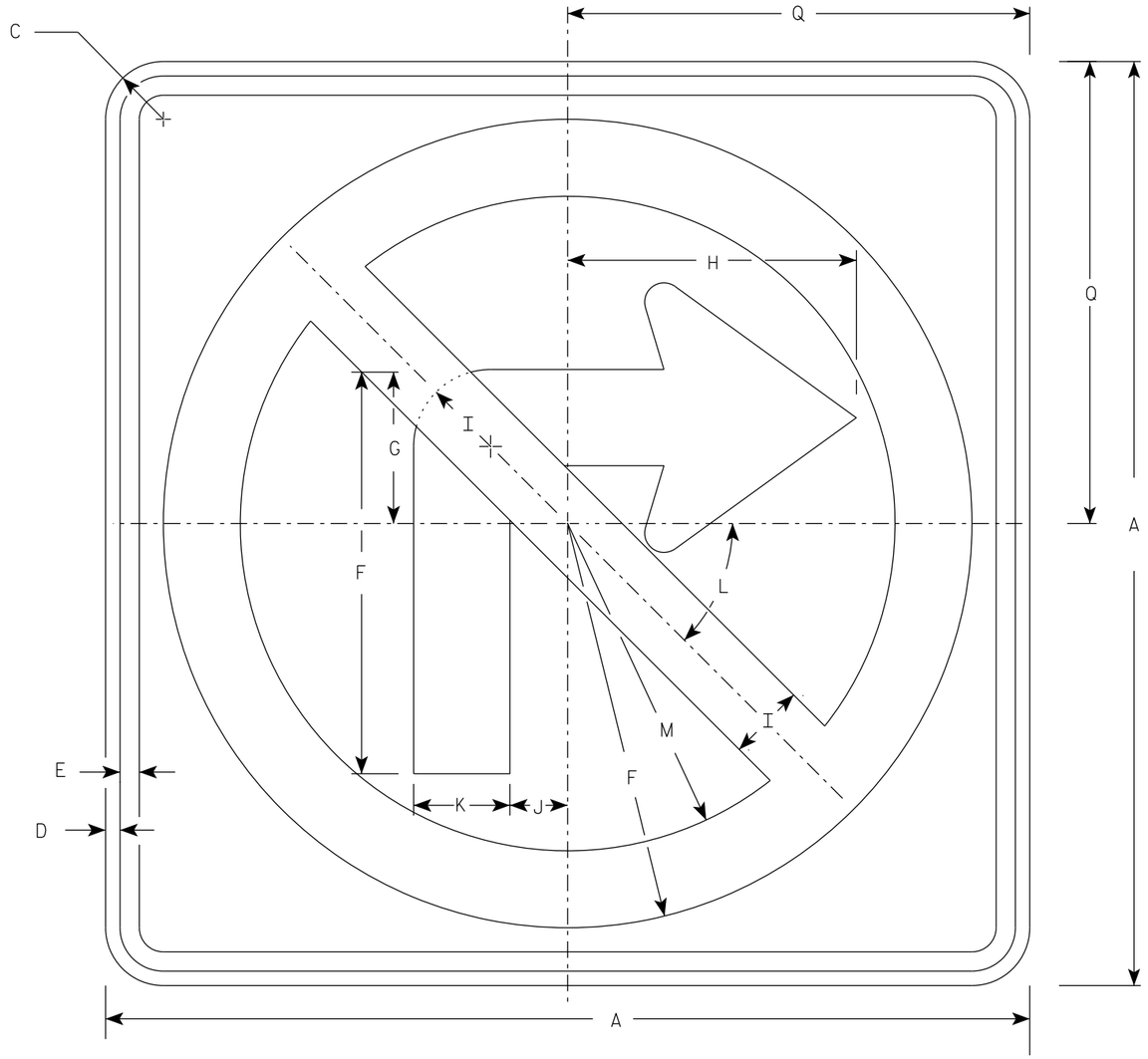
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

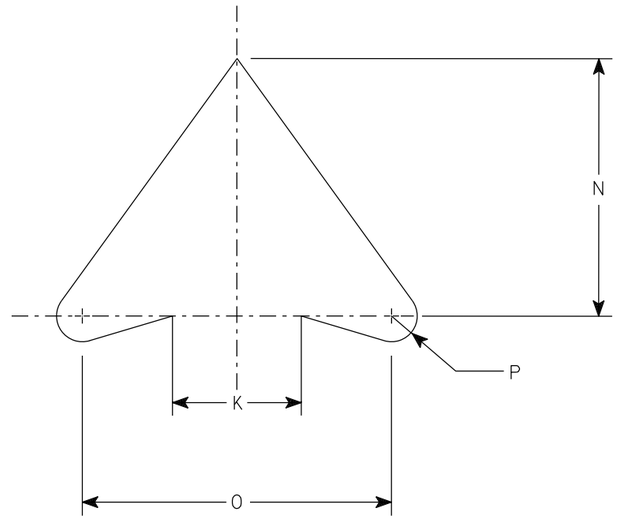
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 684 | E



R3-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 3
3. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 ½	⅜	½	10 ½	4	7 ½	2	1 ½	2 ½	45	8 ½	5	6	½	12										4.0
2S	24		1 ½	⅜	½	10 ½	4	7 ½	2	1 ½	2 ½	45°	8 ½	5	6	½	12										4.0
2M	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45	12 ¾	7 ½	9	¾	18										9.0
3	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45	12 ¾	7 ½	9	¾	18										9.0
4	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45°	12 ¾	7 ½	9	¾	18										9.0
5	48		2 ¼	¾	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

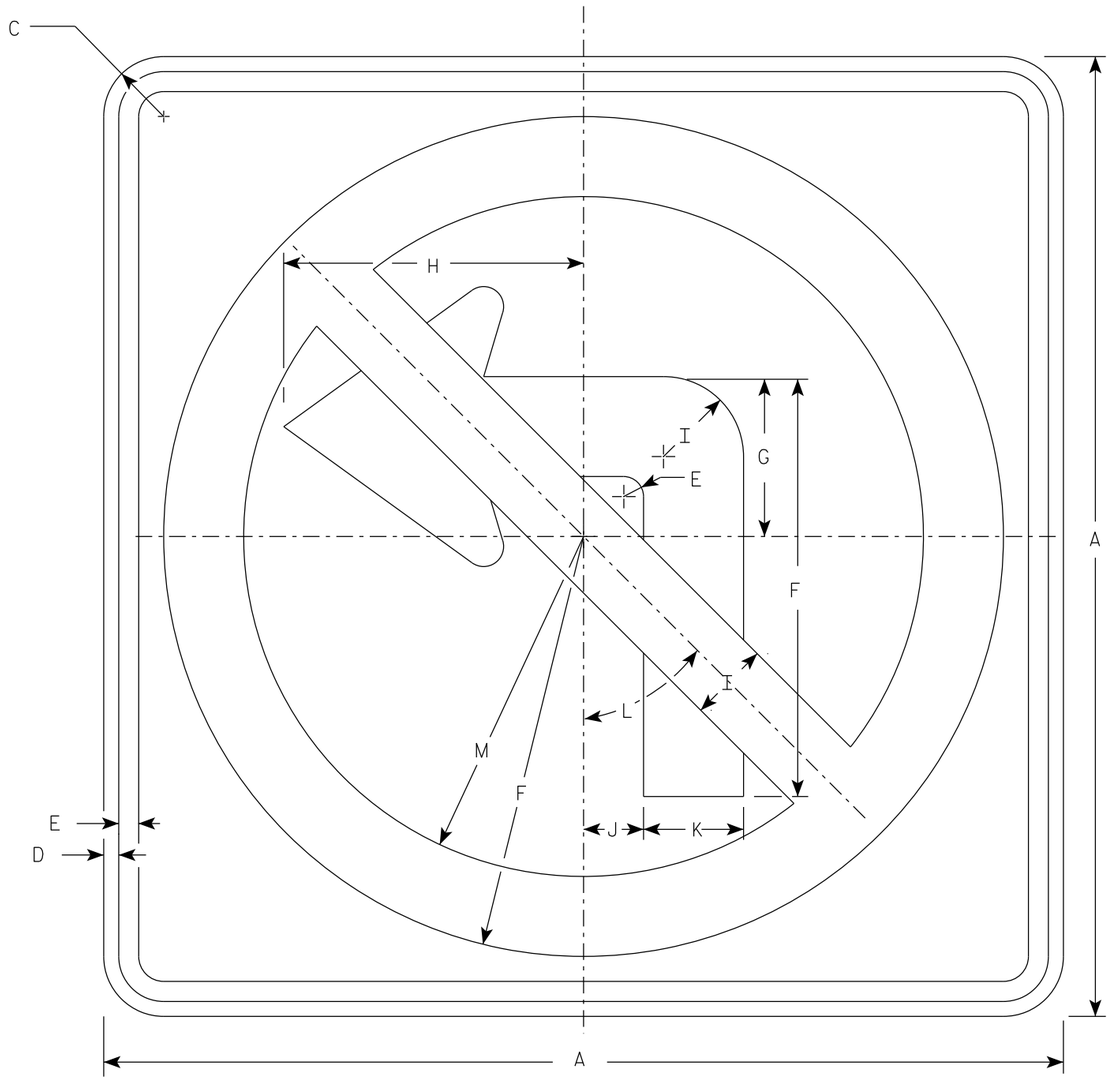
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-1.6

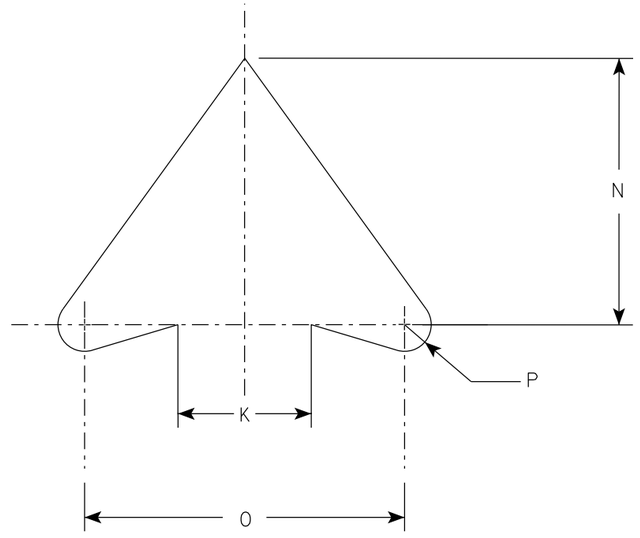
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 685 | E



R3-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 3
3. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 ½	⅜	½	10 ½	4	7 ½	2	1 ½	2 ½	45°	8 ½	5	6	½											4.0
2S	24		1 ½	⅜	½	10 ½	4	7 ½	2	1 ½	2 ½	45°	8 ½	5	6	½											4.0
2M	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45°	12 ¾	7 ½	9	¾											9.0
3	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45°	12 ¾	7 ½	9	¾											9.0
4	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45°	12 ¾	7 ½	9	¾											9.0
5	48		2 ¼	¾	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

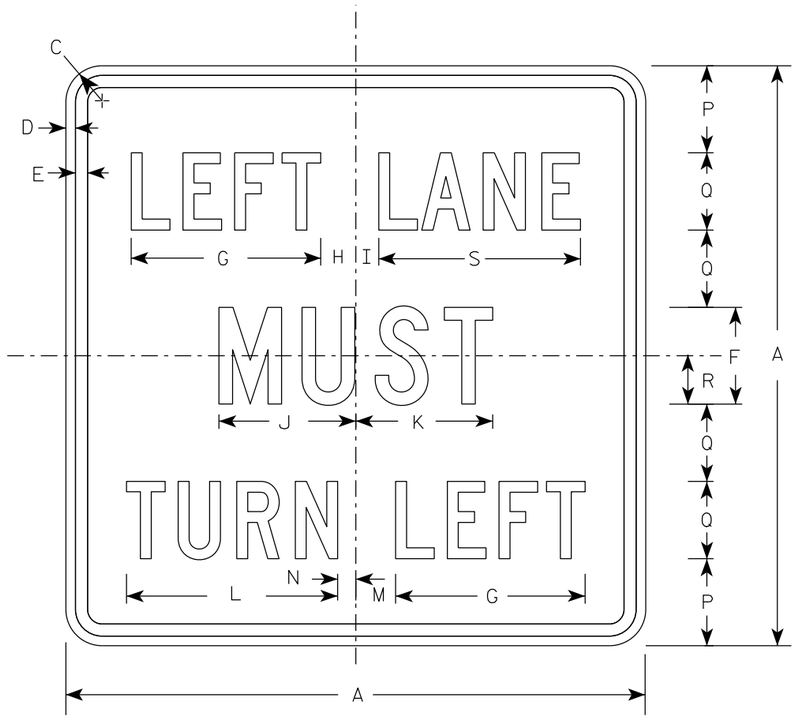
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-2.11

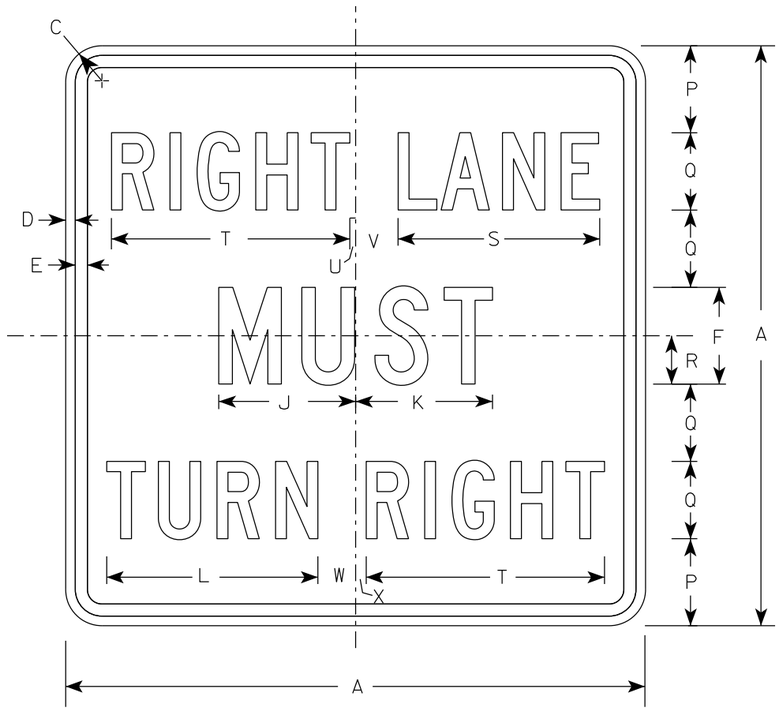
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 686 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C



R3-7L



R3-7R

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 7/8	1/2	5/8	5	9 3/4	1 7/8	1 1/8	7 1/8	7 1/8	10 7/8	2	1		4 1/2	4	2 1/2	10 3/8	12 3/8	1/4	2 1/4	2	1/2			6.25
2S	30		1 7/8	1/2	5/8	5	9 3/4	1 7/8	1 1/8	7 1/8	7 1/8	10 7/8	2	1		4 1/2	4	2 1/2	10 3/8	12 3/8	1/4	2 1/4	2	1/2			6.25
2M	30		1 7/8	1/2	5/8	5	9 3/4	1 7/8	1 1/8	7 1/8	7 1/8	10 7/8	2	1		4 1/2	4	2 1/2	10 3/8	12 3/8	1/4	2 1/4	2	1/2			6.25
3	36		2 1/4	5/8	3/4	6	11 3/4	2 1/8	1 3/8	8 1/2	8 1/2	13 1/8	2 1/8	1 1/8		5 3/8	4 3/4	3	12 1/2	14 3/4	3/8	2 5/8	2 3/8	5/8			9.00
4	48		3	3/4	1	8	15 5/8	2 7/8	1 7/8	11 3/8	11 3/8	17 1/2	3 1/4	1 1/2		7 1/8	6 3/8	4	16 3/4	19 3/4	1/2	3 1/2	3 1/8	7/8			16.00
5																											

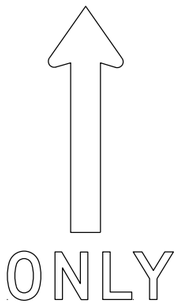
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/16/25 PLATE NO. R3-7.5

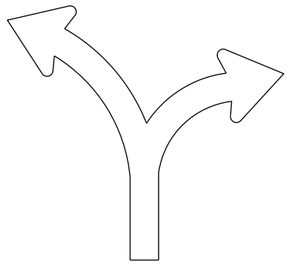
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 687 | E

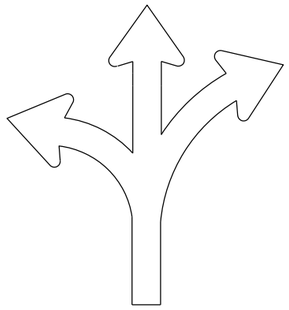


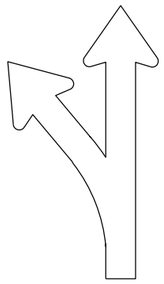
(A)

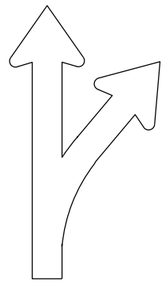


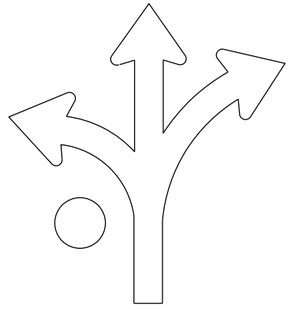
(B)

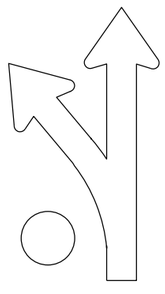

(C)

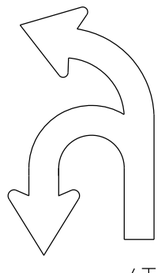

(D)

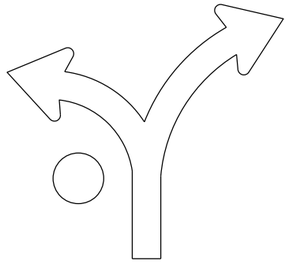

(E)

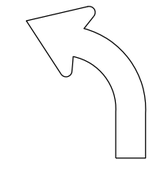

(F)


(G)

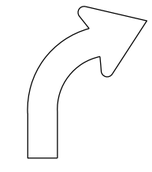

(H)


(I)


(J)



(L)



(R)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1 Letter =	3.75 sq ft	for Size 2
	6.0 sq ft	for Size 3
	10.0 sq ft	for Size 4 or 5
2 Letters =	7.5 sq ft	for Size 2
	12.0 sq ft	for Size 3
	20.0 sq ft	for Size 4 or 5
3 Letters =	11.25 sq ft	for Size 2
	18.0 sq ft	for Size 3
	30.0 sq ft	for Size 4 or 5
4 Letters =	15.0 sq ft	for Size 2
	24.0 sq ft	for Size 3
	40.0 sq ft	for Size 4 or 5
5 Letters =	18.75 sq ft	for Size 2
	30.0 sq ft	for Size 3
	50.0 sq ft	for Size 4 or 5
6 Letters =	22.5 sq ft	for Size 2
	36.0 sq ft	for Size 3
	60.0 sq ft	for Size 4 or 5

6. When letters C,D,G,J are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO:

SHEET NO: 688 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:01 PLOT BY : mscj9h PLOT NAME :

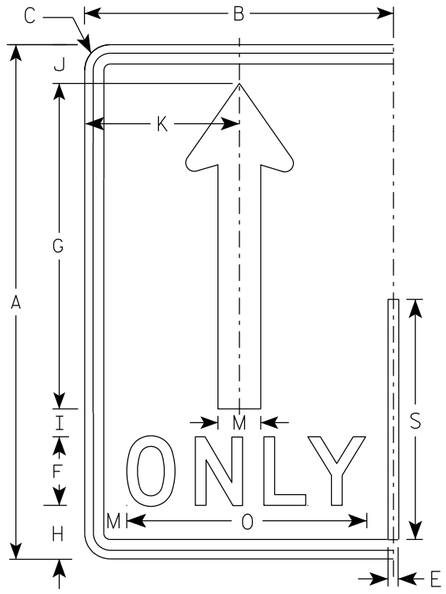
WISDOT/CADDS SHEET 42

7

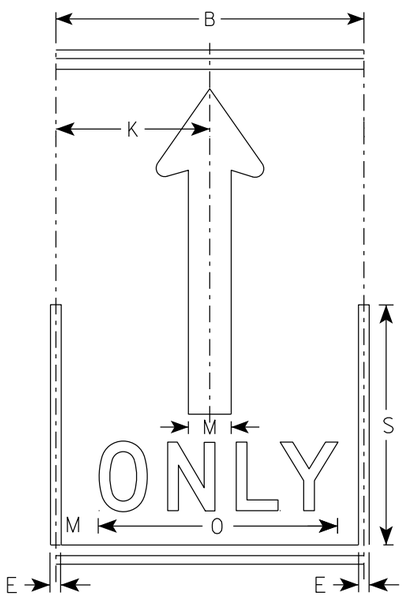
7

NOTES

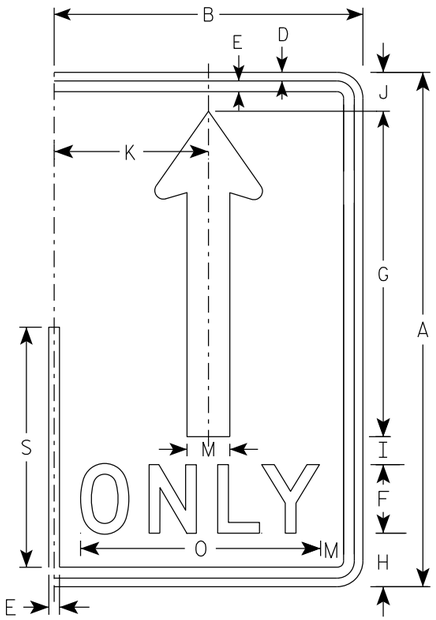
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



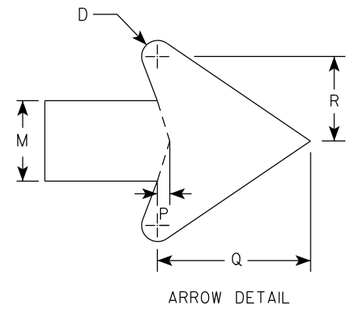
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 1/2	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 1/2	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

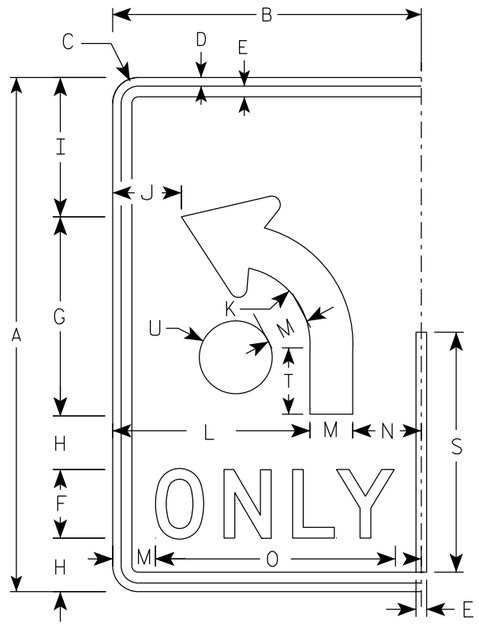
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

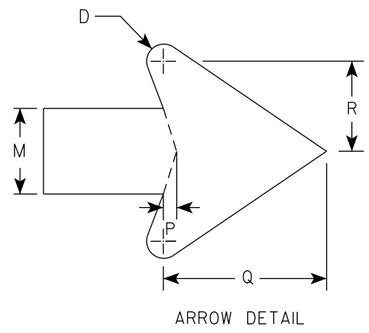
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 689 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 1/2	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

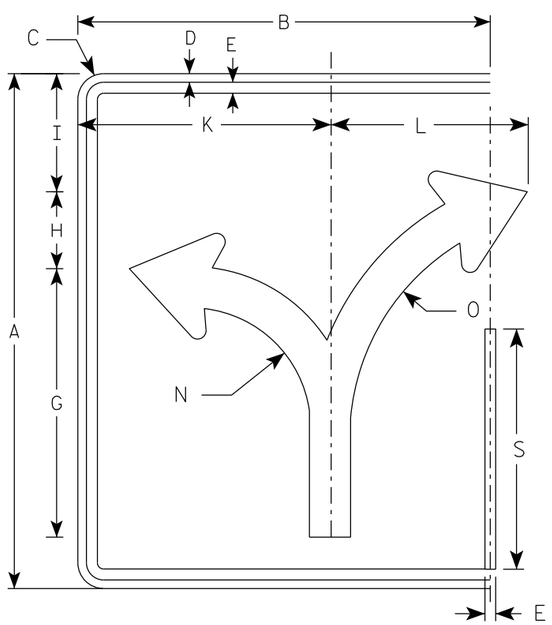
DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO:

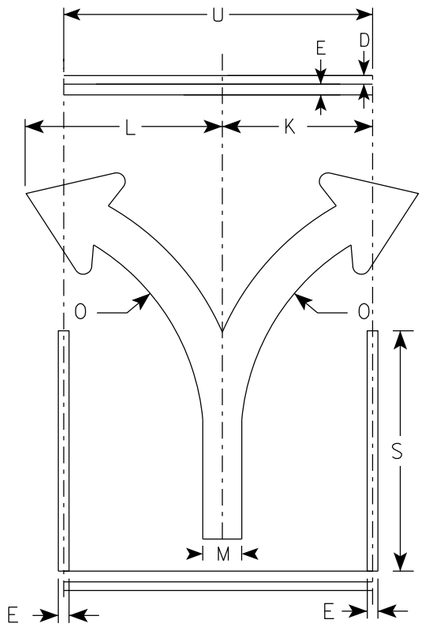
SHEET NO: 690 E

NOTES

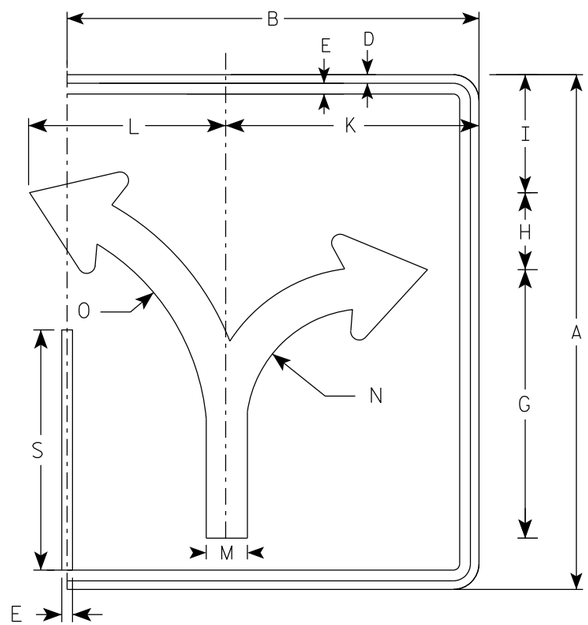
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



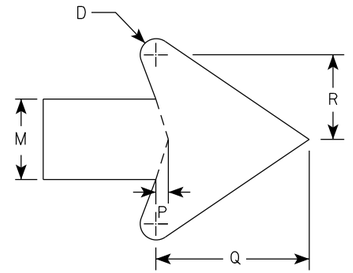
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

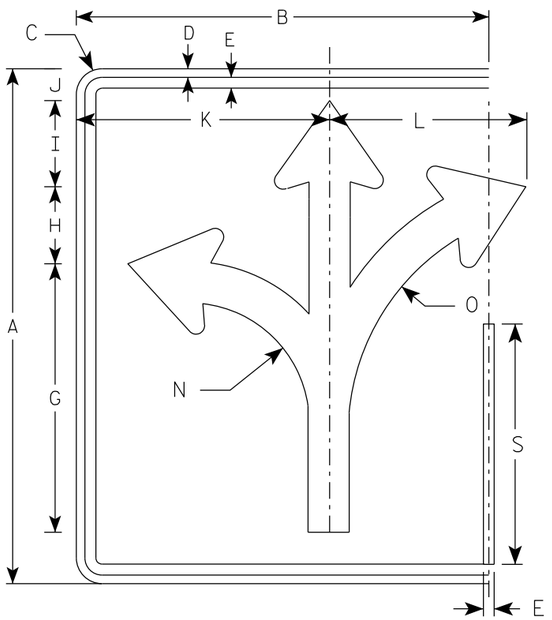
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 691 | E

7

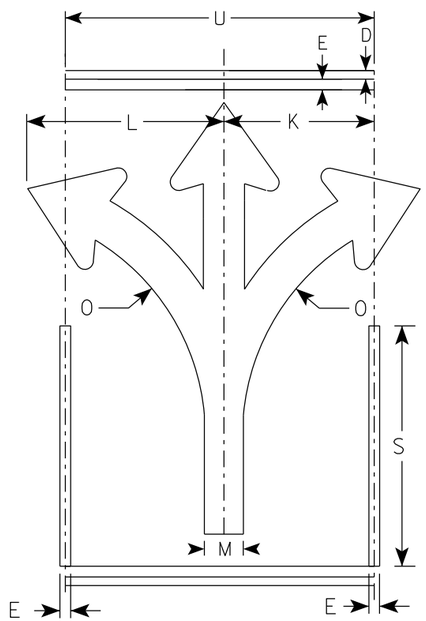
7

NOTES

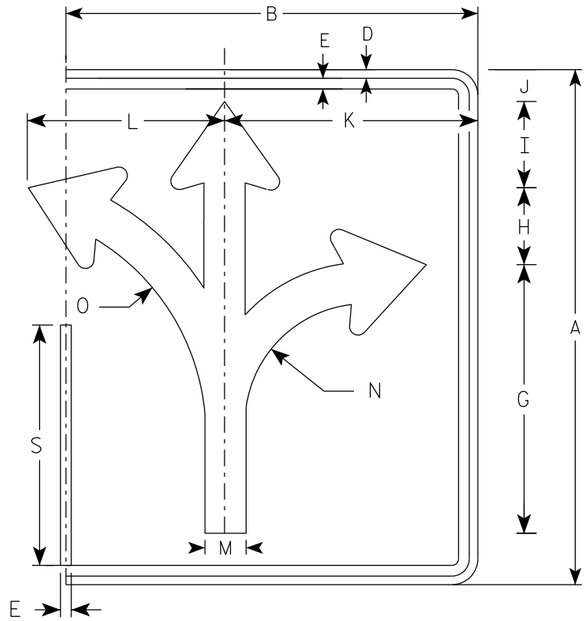
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



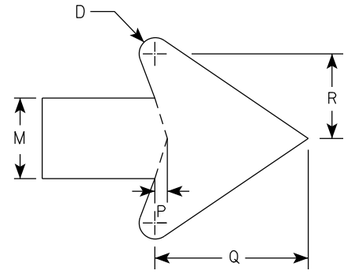
(D)



(D)



(D)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

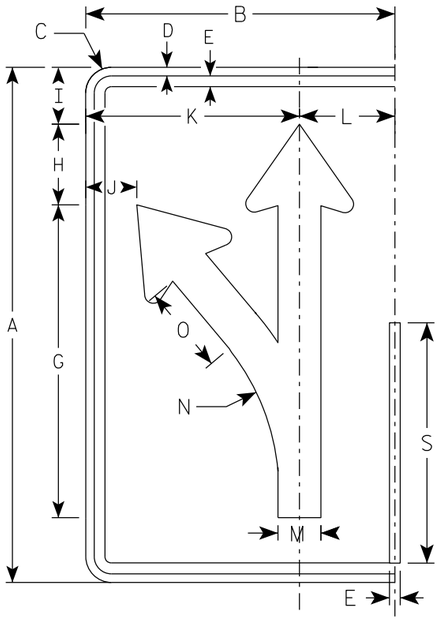
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

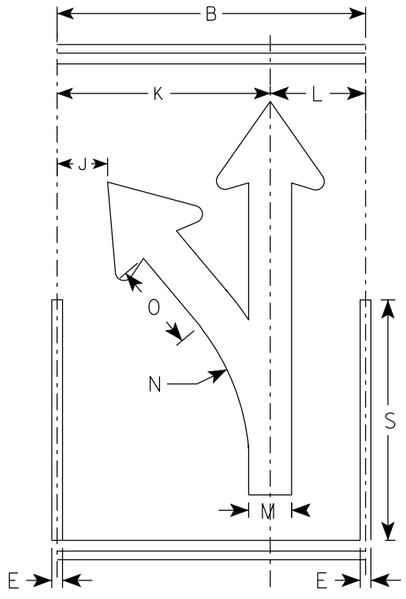
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 692 | E

NOTES

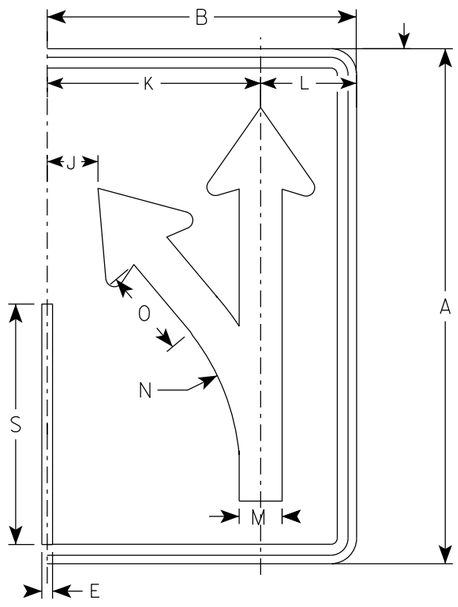
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



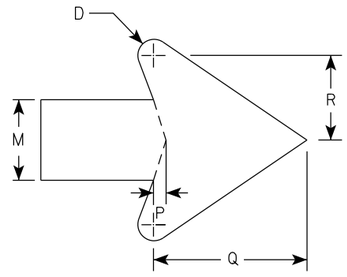
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 1/2	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

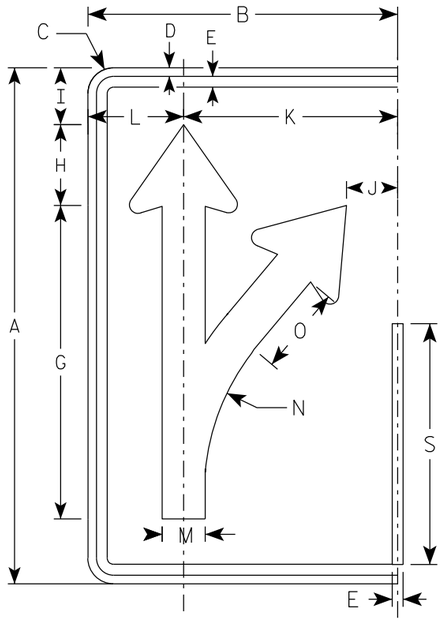
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

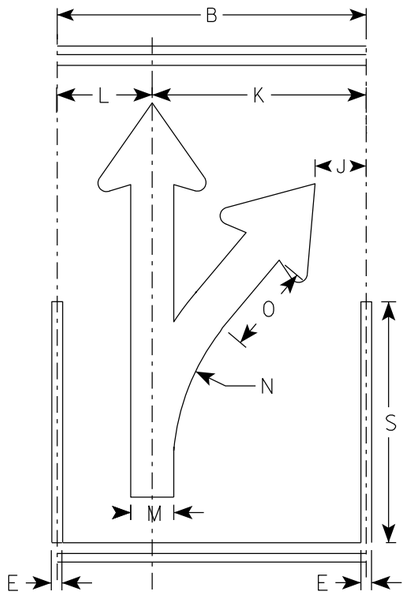
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 693 | E

NOTES

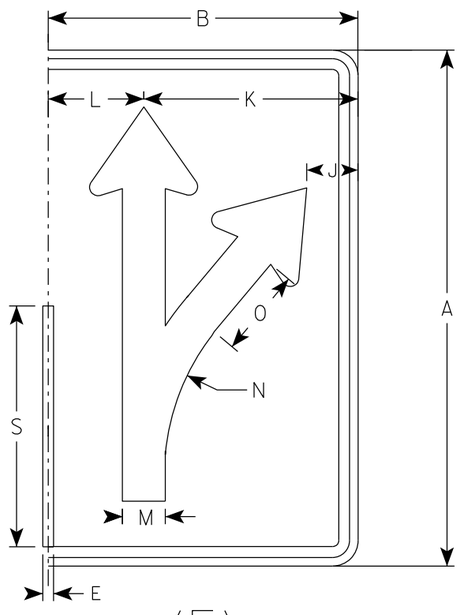
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



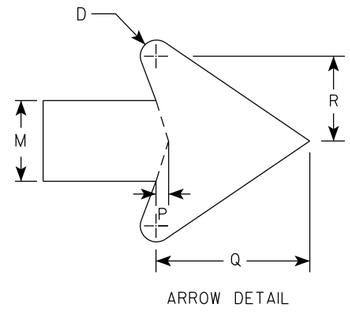
(F)



(F)



(F)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 1/2	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

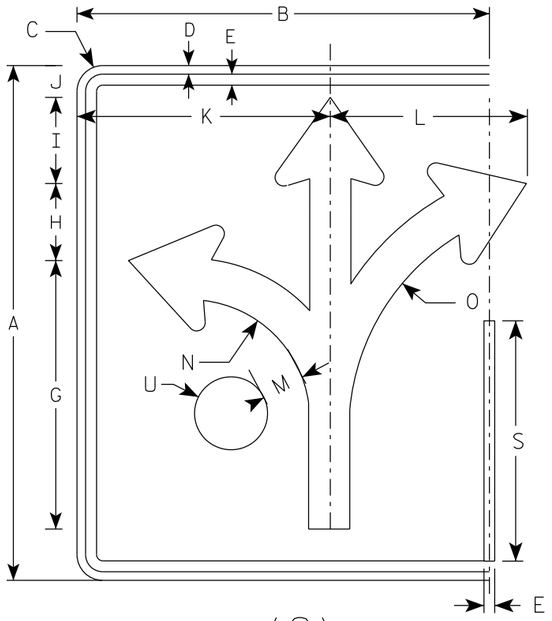
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

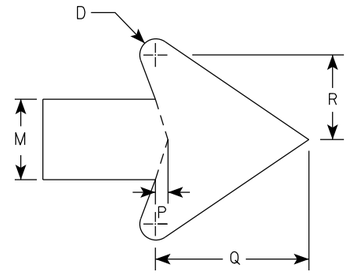
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 694 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

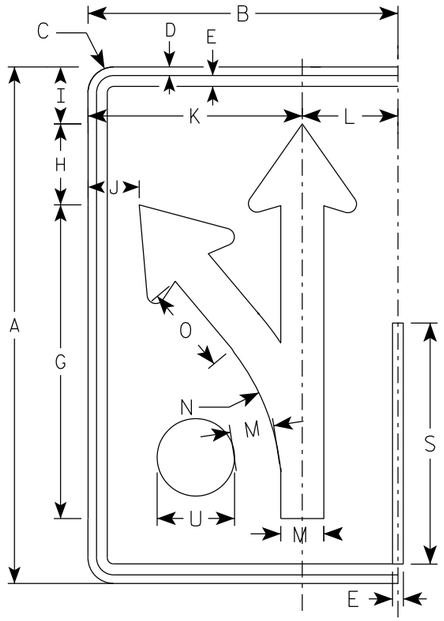
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

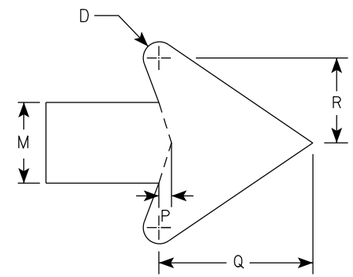
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 695	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 1/2	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

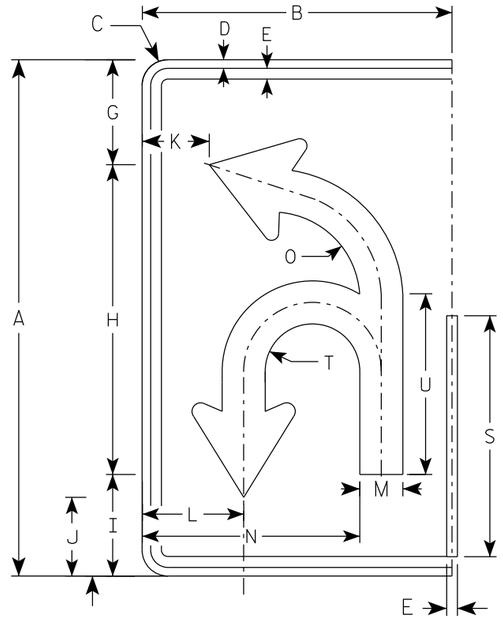
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

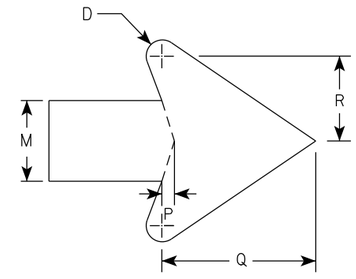
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 696 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 1/2	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 1/2	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

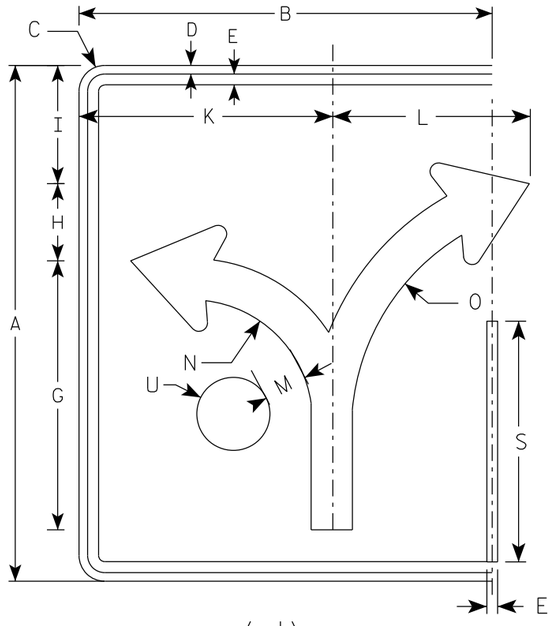
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

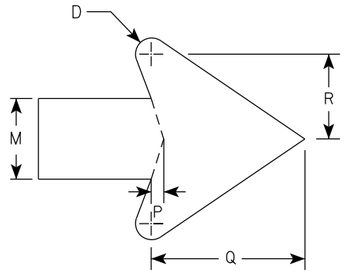
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 697 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(J)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (J) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

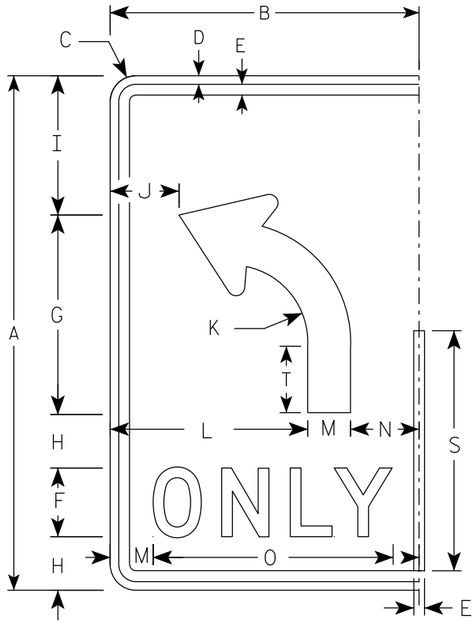
DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 698 | E

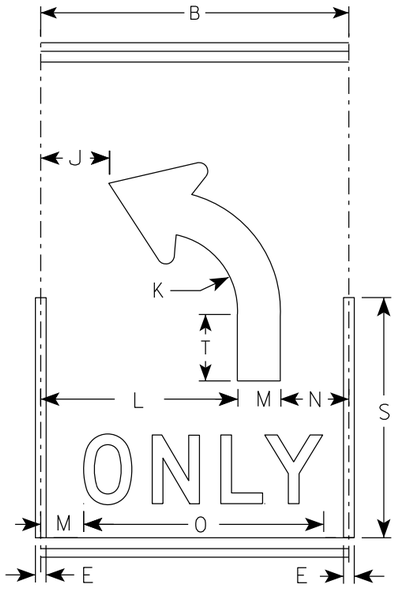
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:18 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

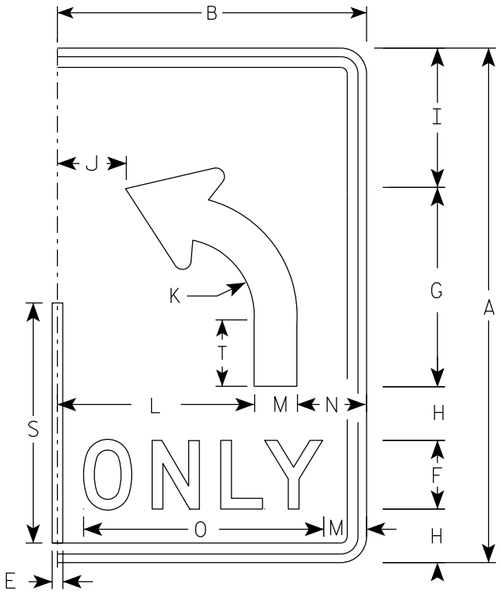
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



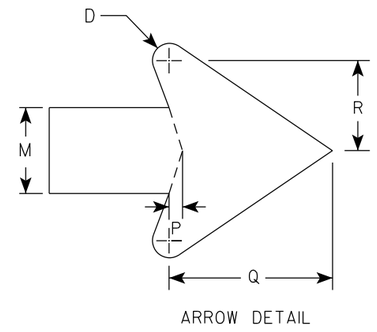
(L)



(L)



(L)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 ½	½	⅝	4	11 ⅝	3 ⅛	8 ⅛	4	4 ½	11 ½	2 ½	4	14	⅜	4 ¾	2 ⅝	14	3 ⅞							3.75
2M	30	18	1 ½	½	⅝	4	11 ⅝	3 ⅛	8 ⅛	4	4 ½	11 ½	2 ½	4	14	⅜	4 ¾	2 ⅝	14	3 ⅞							3.75
3	36	24	1 ½	½	⅝	5	14	3 ½	9 ¾	6	5 ⅜	15	3	6	17 ⅝	½	5 ¾	3 ⅛	16 ¾	4 ⅝							6.0
4	48	30	2 ¼	¾	1	6	18 ⅝	5 ⅛	13 ⅛	6 ⅛	7 ¼	18	4	8	21 ¾	⅝	7 ⅝	4 ¼	22 ⅜	6 ¼							10.0
5	48	30	2 ¼	¾	1	6	18 ⅝	5 ⅛	13 ⅛	6 ⅛	7 ¼	18	4	8	21 ¾	⅝	7 ⅝	4 ¼	22 ⅜	6 ¼							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

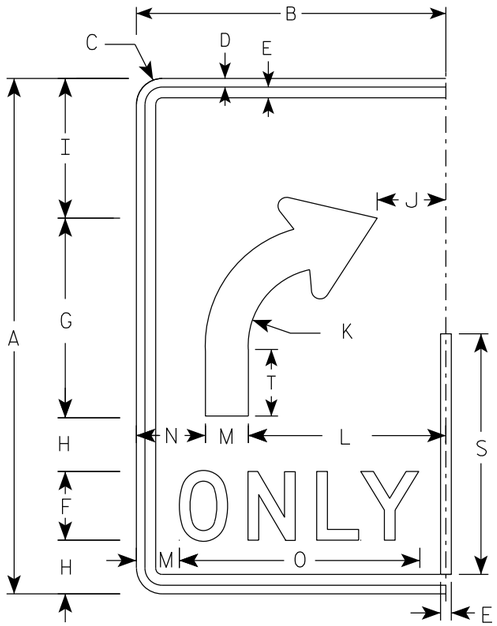
DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO:

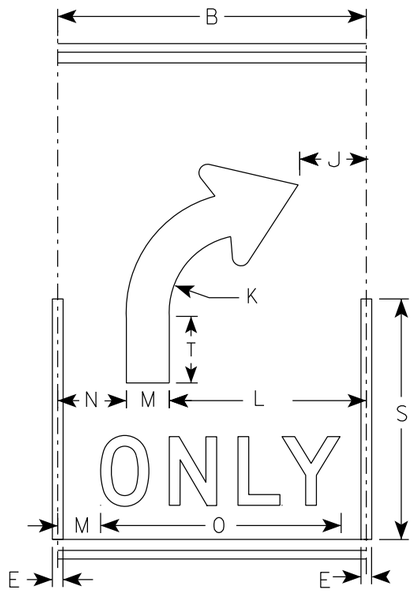
SHEET NO: 699 E

NOTES

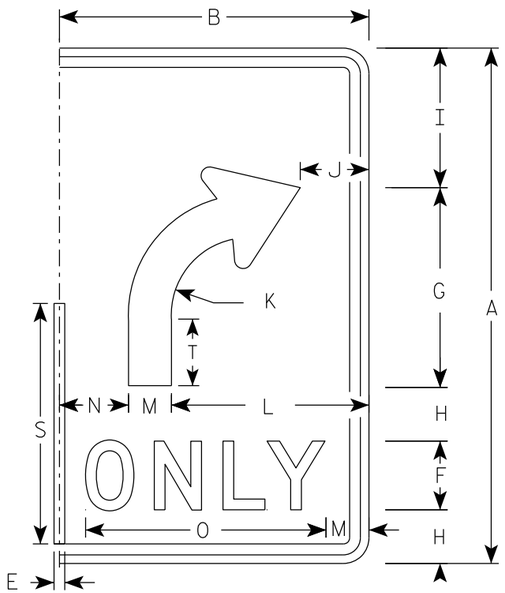
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



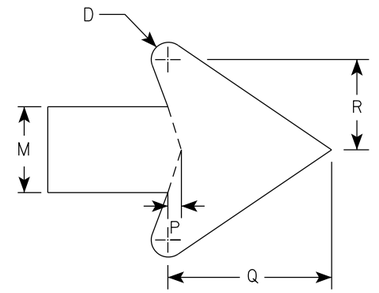
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 1/2	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (R) Arrow

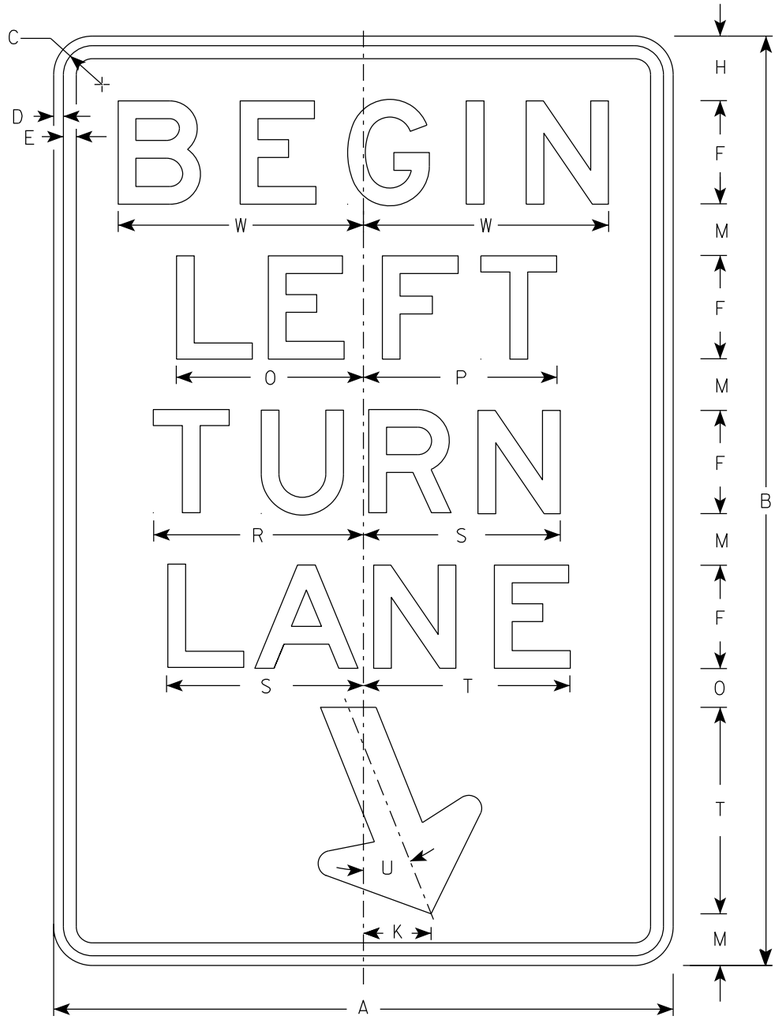
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO:

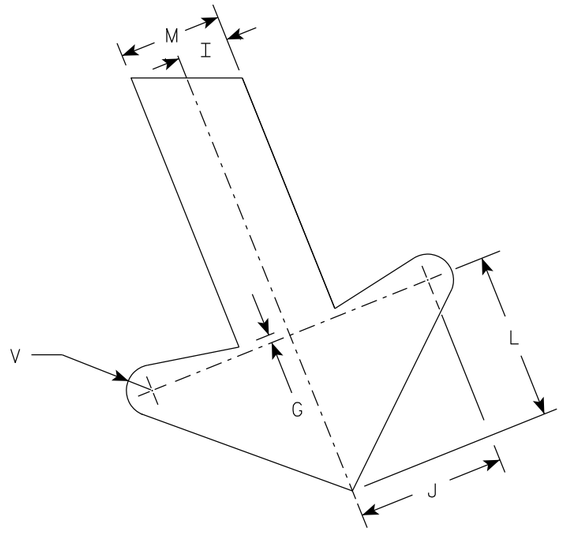
SHEET NO: 700 **E**



R3-20L

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 7/8	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

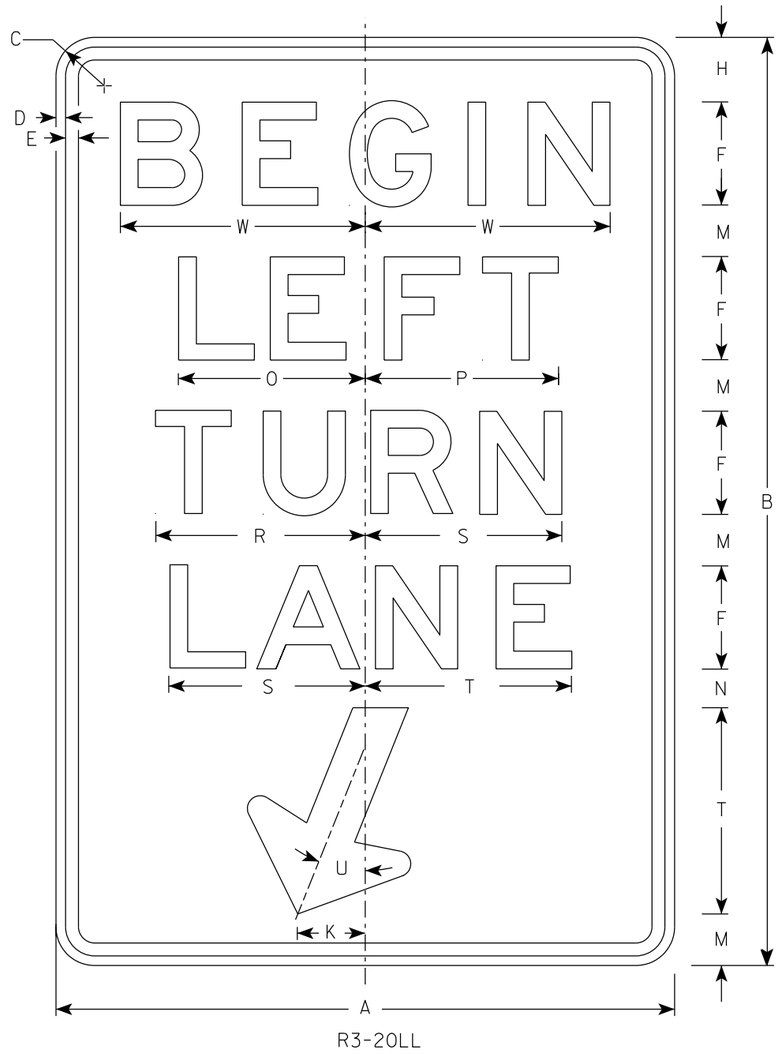
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/23 PLATE NO. R3-20L.8

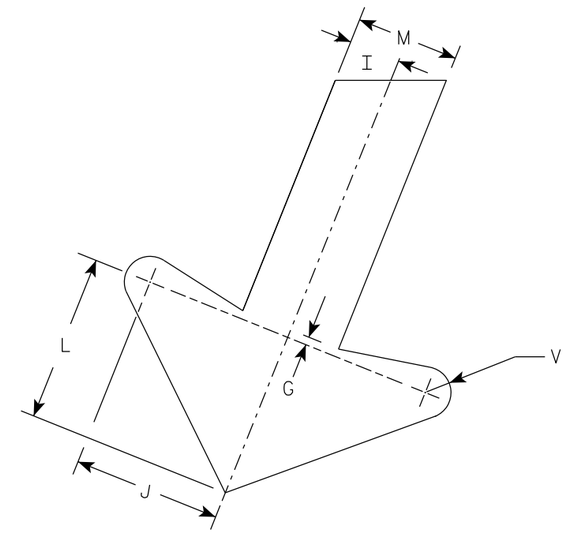
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 701	E



R3-20LL

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 7/8	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

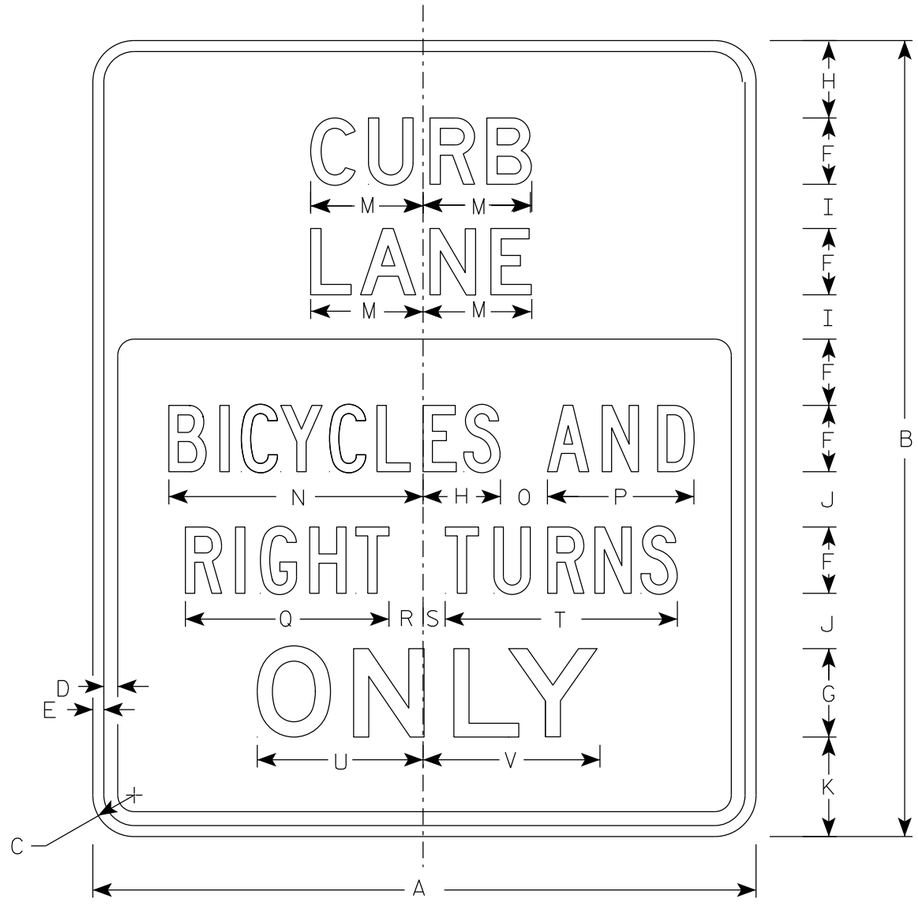
STANDARD SIGN
R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/23 PLATE NO. R3-20LL.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 702 | E



R3-52

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Message Series - Lines 1 and 2 are series D
   Lines 3 and 4 are Series C
   Bottom line is series E
4. Top Message is White Type H reflective with a Black background,
   Bottom Message is Black with White Type H reflective background

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 7/8	1/2	5/8	3	4	3 1/2	2	2 1/2	4 1/2		5	11 1/2	2 1/8	6 5/8	9 1/4	1 1/2	1	10 1/2	7 1/2	8					7.5
2M	30	36	1 7/8	1/2	5/8	3	4	3 1/2	2	2 1/2	4 1/2		5	11 1/2	2 1/8	6 5/8	9 1/4	1 1/2	1	10 1/2	7 1/2	8					7.5
3																											
4																											
5																											

STANDARD SIGN
R3-52

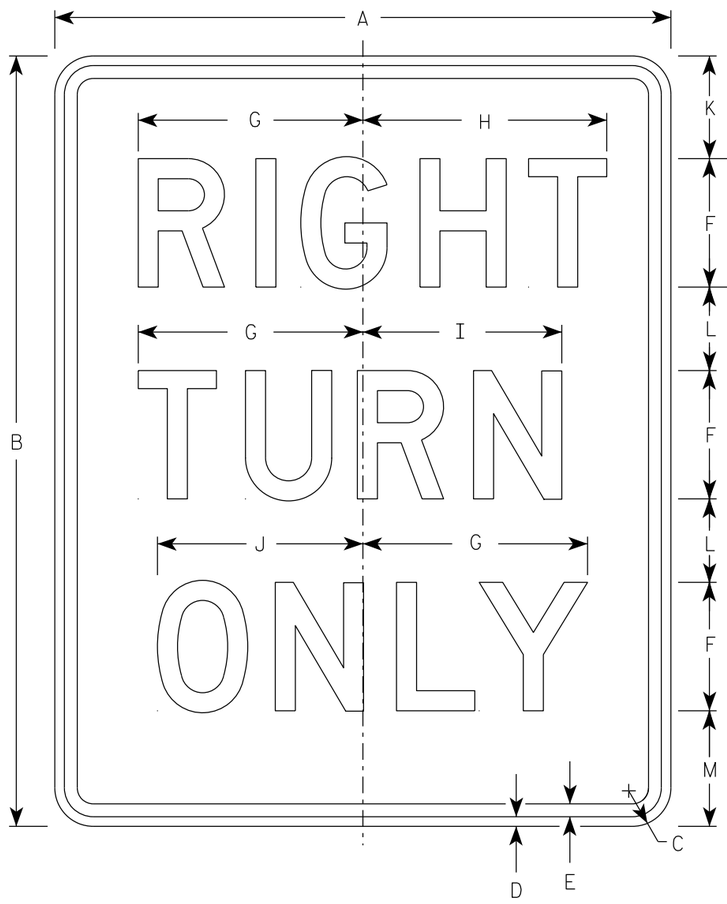
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

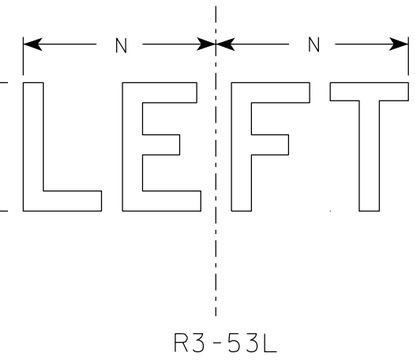
DATE 2/23/23 PLATE NO. R3-52.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 703 | E

7



R3-53R



R3-53L

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. R3-53L same as R3-53R except LEFT is substituted for 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																											
2S	24	30	1 1/2	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
2M	24	30	1 1/2	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
3	24	30	1 1/2	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
4																											
5																											

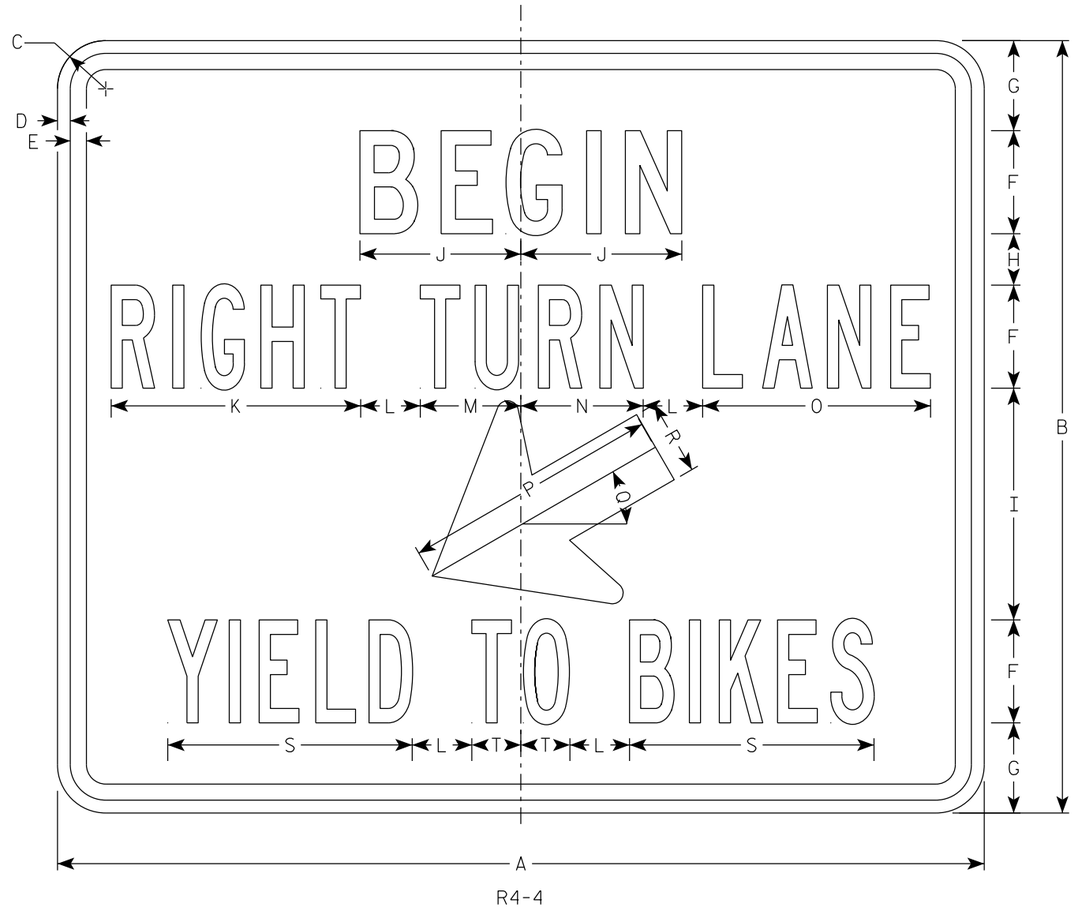
STANDARD SIGN
R3-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/23 PLATE NO. R3-53.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 704 | E



R4-4

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. Line 1 is Series C
   Lines 2 & 3 are Series B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	30	1 7/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
2M	36	30	1 7/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
3																											
4																											
5																											

STANDARD SIGN
R4-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

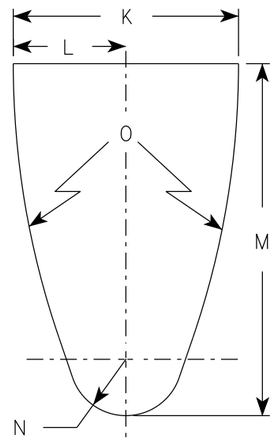
DATE 5/31/23 PLATE NO. R4-4.3

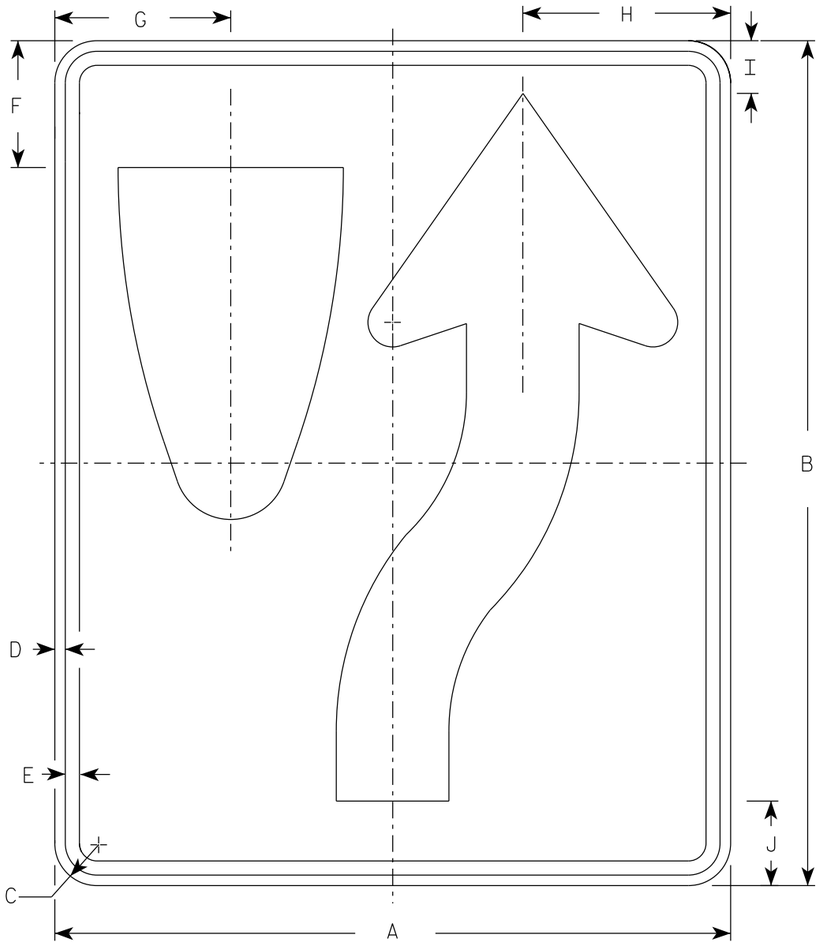
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 705 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. R4-8 is the same as R4-7 except Legend is reversed.

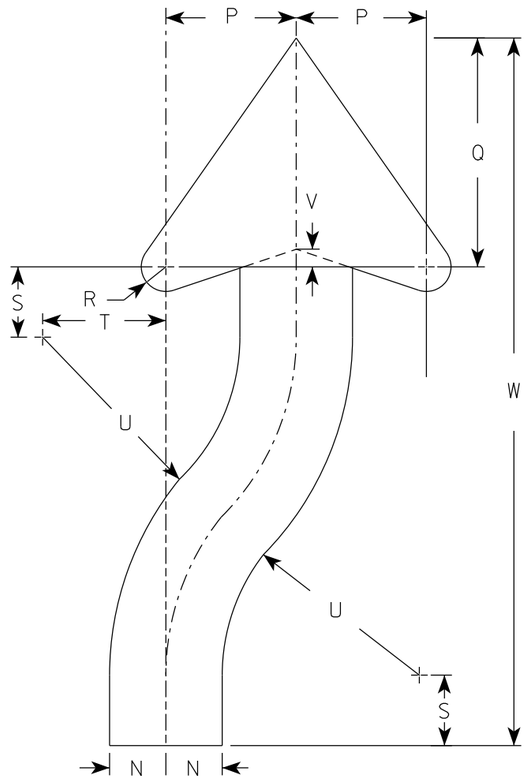
DIVIDER DETAIL





R4-7

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 1/2	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 1/2	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 1/2	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 7/8	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 7/8	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	3	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

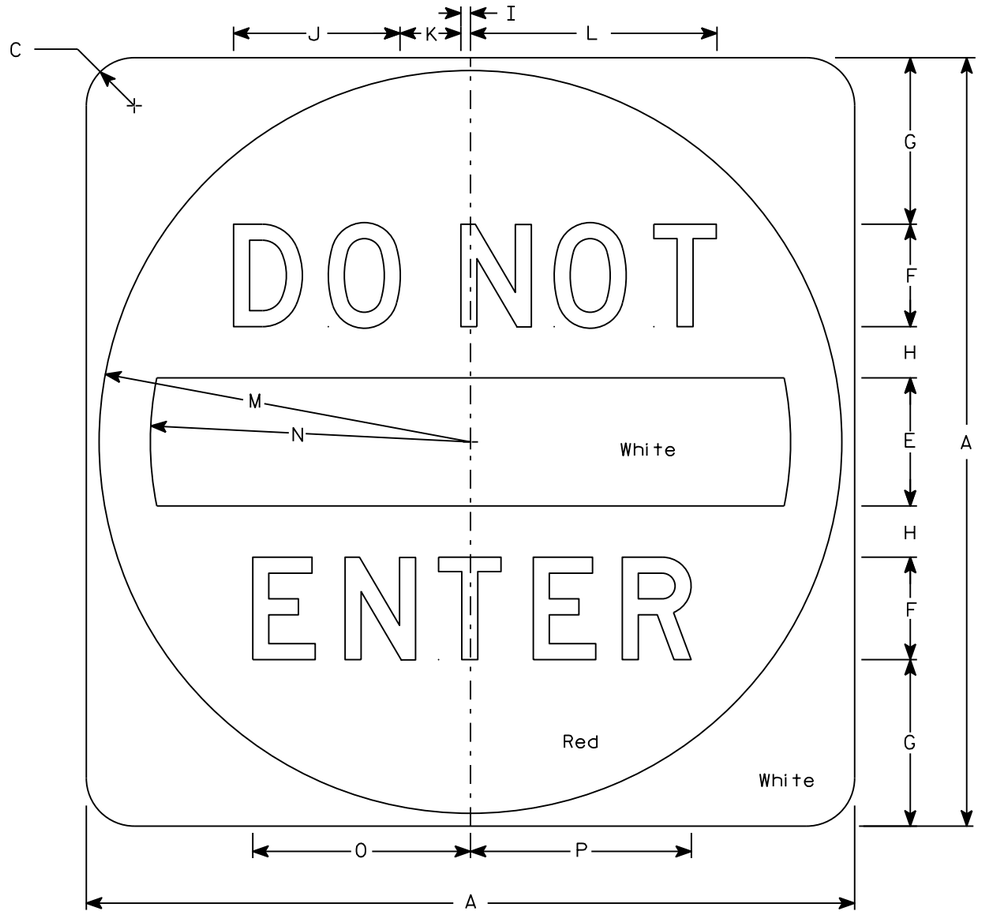
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/17/23 PLATE NO. R4-7.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 706	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

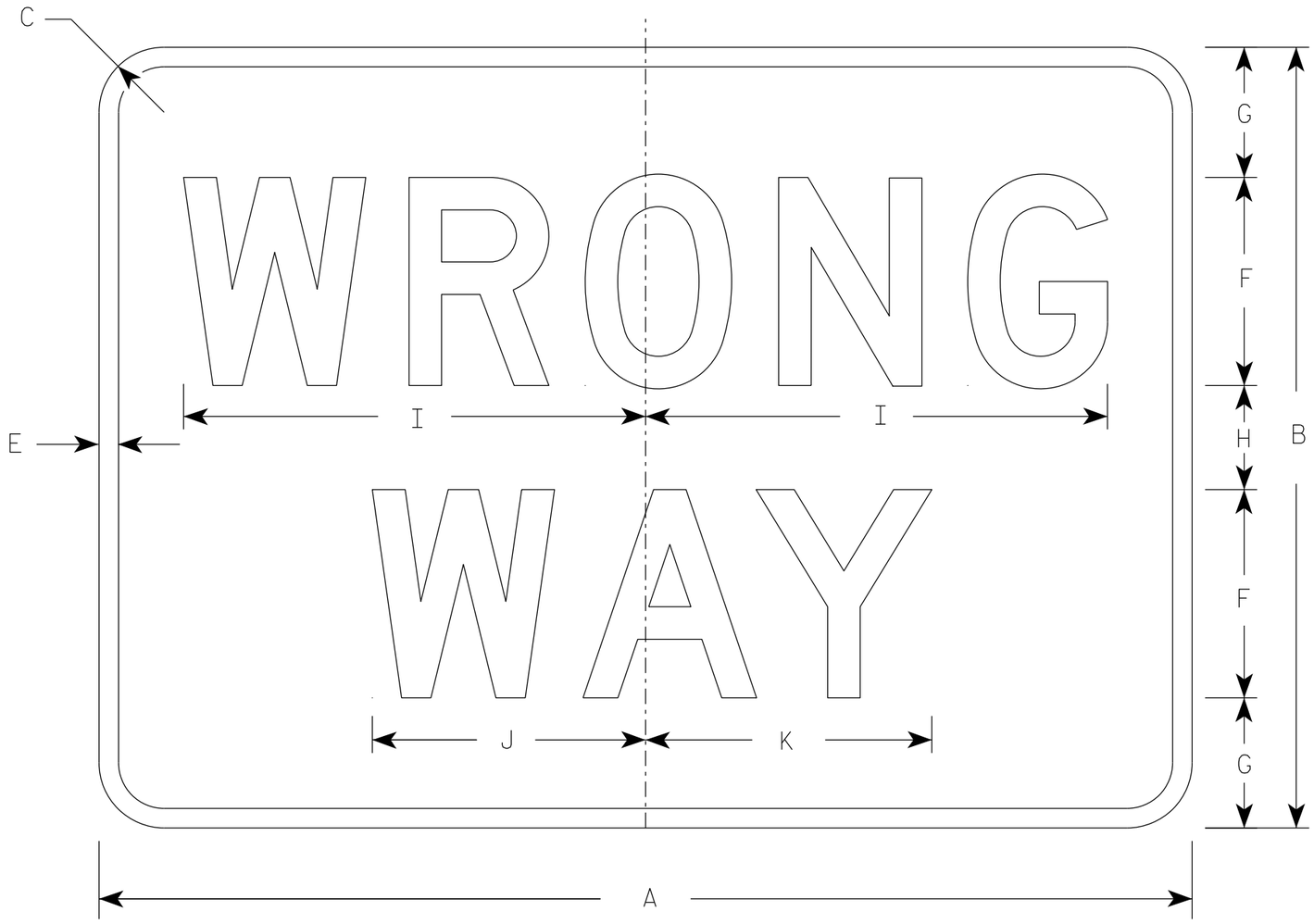
STANDARD SIGN
R5-1

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: 707 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   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	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	1 1/2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75

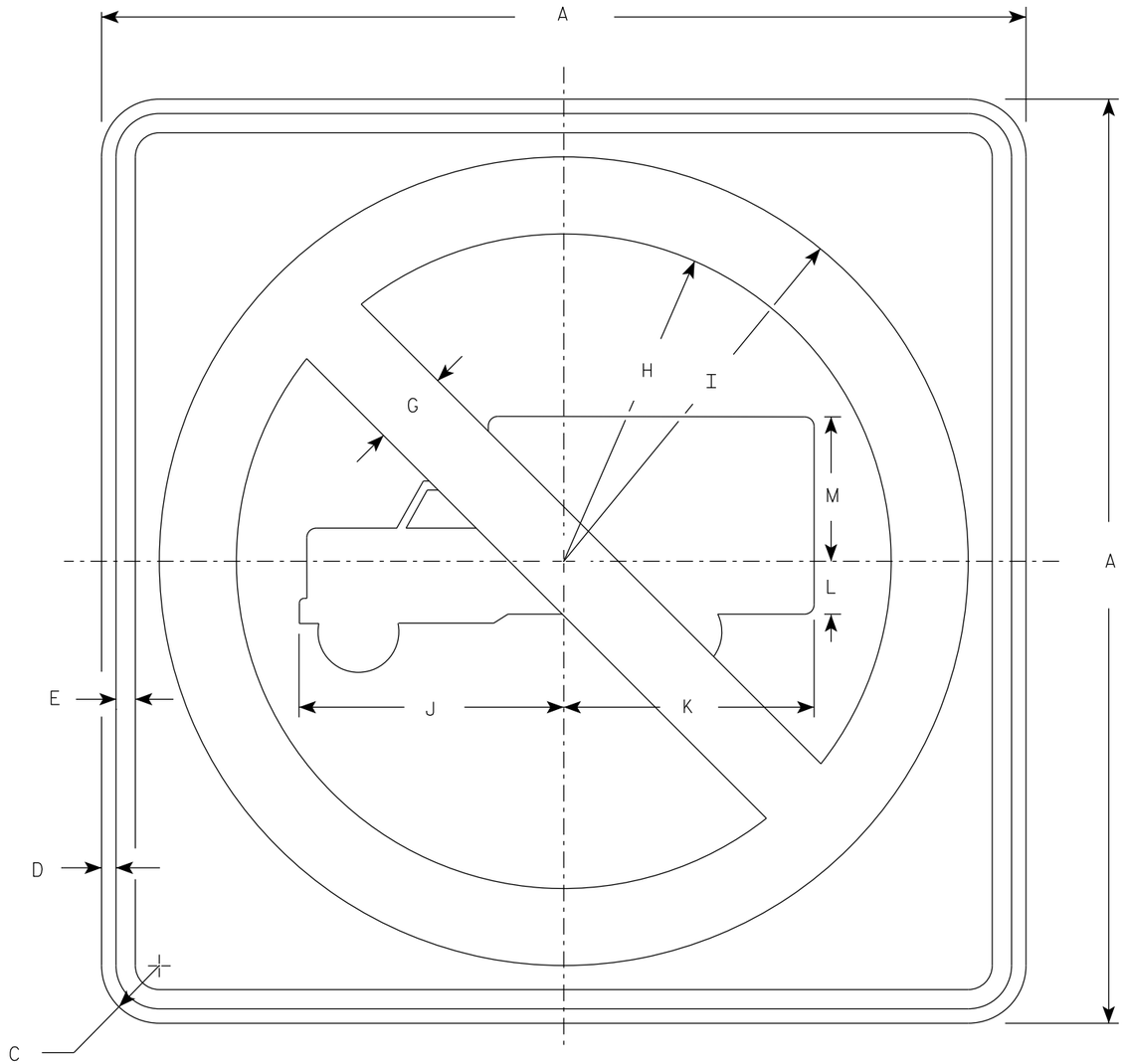
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/23 PLATE NO. R5-1A.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 708 | E



R5-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See Note 3
3. Circle & Diagonal - Red
   Truck Symbol & Border - 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 1/2	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 1/2	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 7/8	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		2 1/4	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 8/17/23 PLATE NO. R5-2.7

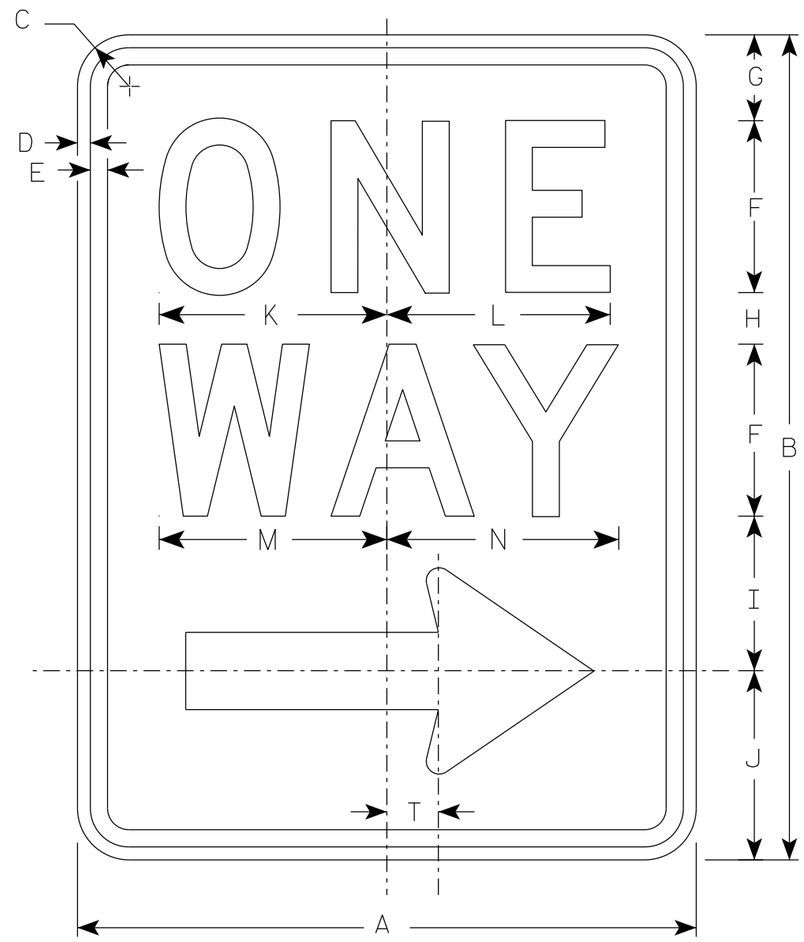
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 709 | E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R52.dgn PLOT DATE : 17-AUG 2023 3:01 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

7

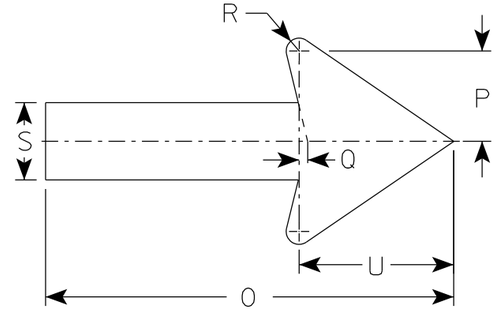
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. R6-2L same as R6-2R except arrow points to the left.



R6-2R

Arrow Detail



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/2	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	1 1/2	1 1/2	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 7/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

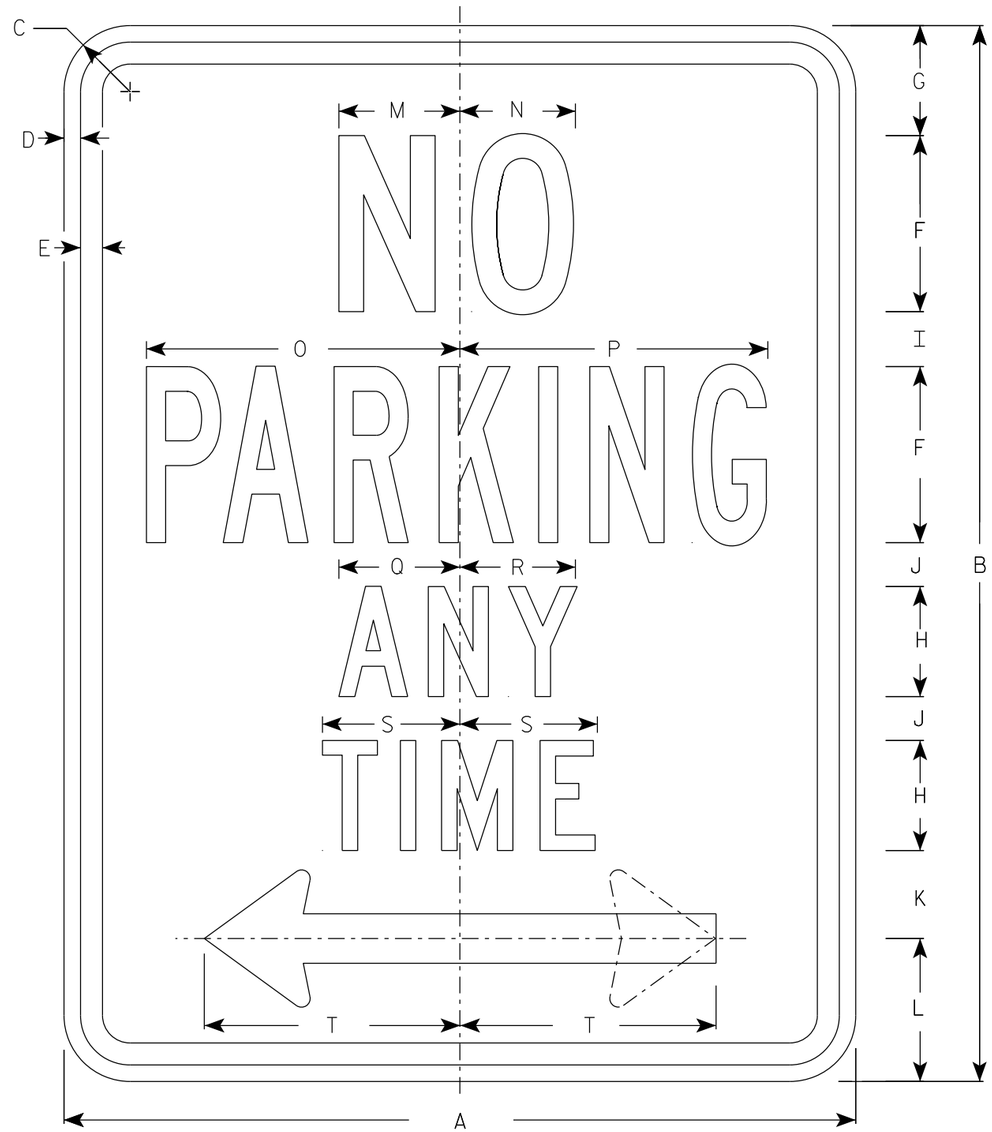
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 710	E

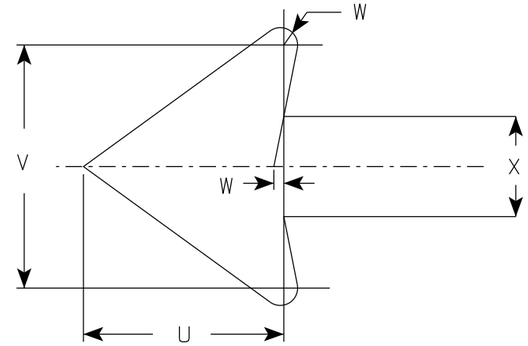


R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 4
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 ½	⅜	⅜	3	1 ⅞	2	⅞	⅝	1 ½	2 ½	2	2	4 ⅞	4 ⅞	2 ¼	2 ⅛	2 ½	3 ⅞	1 ½	1 ¾	⅛	¾			1.5
2S	18	24	1 ½	⅜	½	4	2 ½	2 ½	1 ¼	1	2	3 ¼	2 ¾	2 ⅝	7 ⅛	7	2 ¾	2 ⅝	3 ⅛	5 ⅞	2 ¼	2 ⅝	¼	1 ⅛			3.0
2M	24	30	1 ½	⅜	½	5	3	3	2	1 ¼	2 ½	4	3 ¼	3 ⅜	9 ¼	9 ¼	3 ¼	3 ¼	3 ¾	7 ¾	3	3 ½	¼	1 ½			5.0
3	24	30	1 ½	⅜	½	5	3	3	2	1 ¼	2 ½	4	3 ¼	3 ⅜	9 ¼	9 ¼	3 ¼	3 ¼	3 ¾	7 ¾	3	3 ½	¼	1 ½			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/26/23 PLATE NO. R7-1.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 711	E



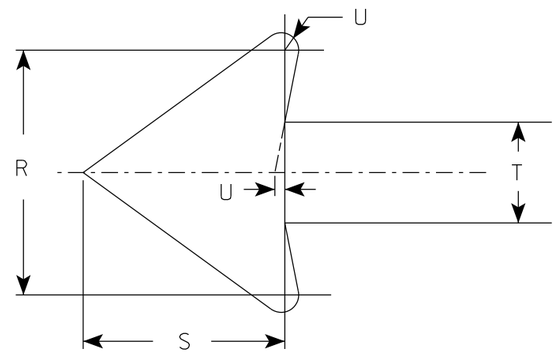
R7-2

* - See Note 5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 6
4. Substitute appropriate numerals as required & adjust spacing to achieve proper balance.
5. R7-2D (double arrow)
   R7-2L (left arrow)
   R7-2R (right arrow)
6. Lines 1, 3 and 4 are series C, line 2 is series B.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/2	3/8	3/8	3	1 7/8	1 1/2	7/8	7/8	2	2 1/2	2	2	4 7/8	4 7/8	3 7/8	1 3/4	1 1/2	3/4	1/8						1.5
2S	18	24	1 1/2	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 7/8	2 5/8	2 1/4	1 1/8	1/4						3.0
2M	24	30	1 1/2	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
3	24	30	1 1/2	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
4																											
5																											

STANDARD SIGN
R7-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/26/23 PLATE NO. R7-2.10

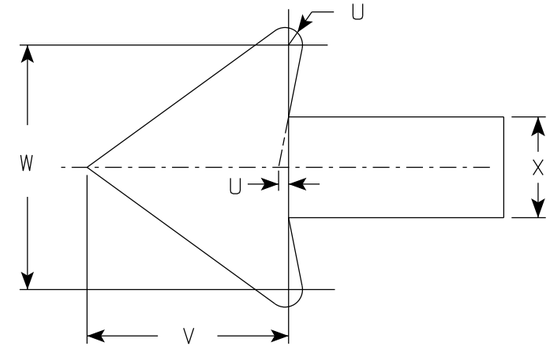
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 712	E



R7-52

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 4
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-52D (double arrow)
   R7-52L (left arrow)
   R7-52R (right arrow)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/2	3/8	3/8	3	1 7/8	1 1/2	7/8	7/8	2	2 1/2	2	2	4 7/8	4 7/8	3 7/8	3 3/4	2 3/8	3 7/8	1/8	1 1/2	1 3/4	3/4			1.5
2S	18	24	1 1/2	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	6 3/8	6 1/4	3 7/8	5 7/8	1/4	2 1/4	2 5/8	1 1/8			3.0
2M	24	30	1 1/2	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 5/8	7 5/8	4 3/4	7 3/4	1/4	3	3 1/2	1 1/2			5.0
3	24	30	1 1/2	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 5/8	7 5/8	4 3/4	7 3/4	1/4	3	3 1/2	1 1/2			5.0
4																											
5																											

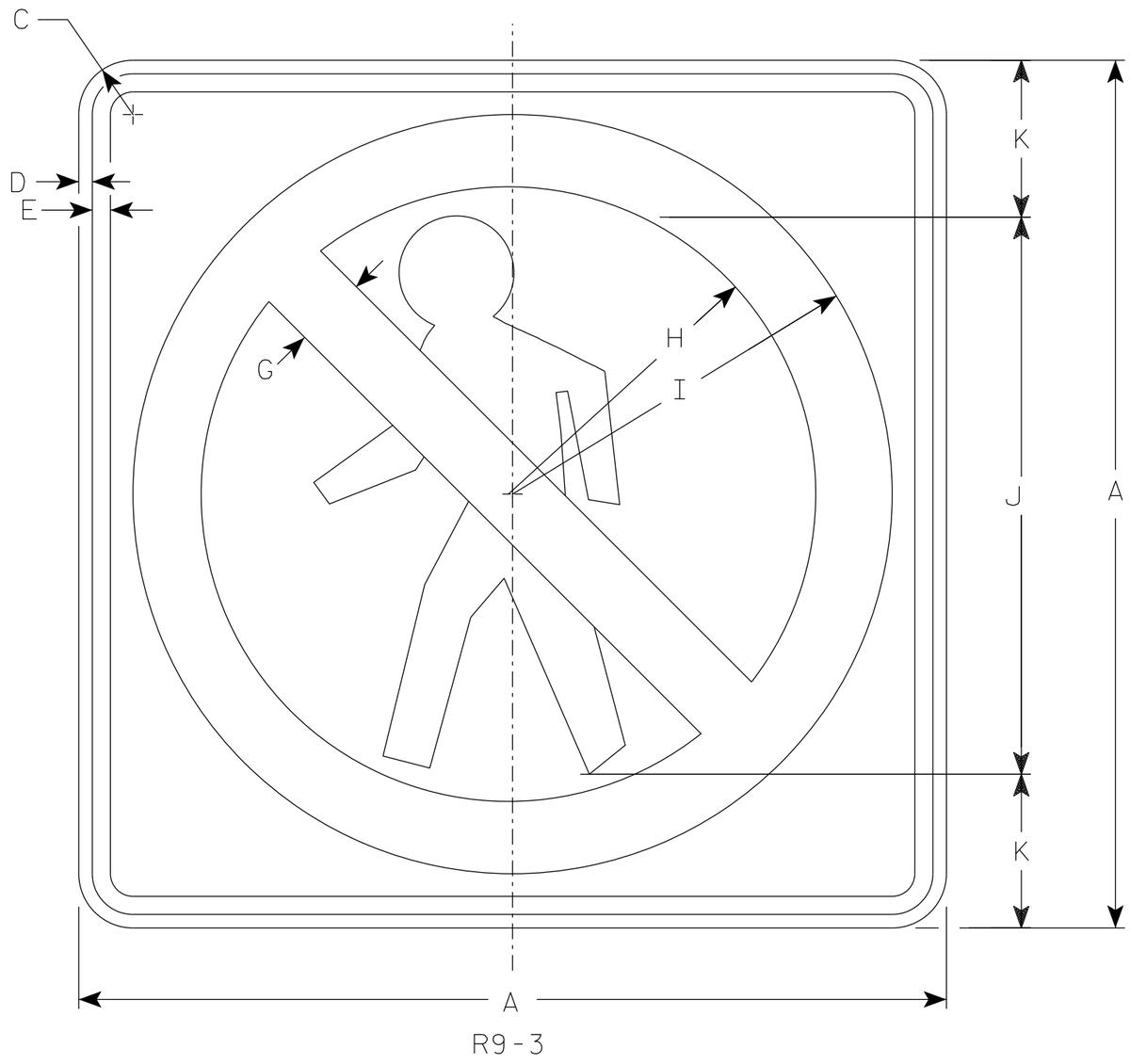
STANDARD SIGN
R7-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/9/23 PLATE NO. R7-52.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 713	E



R9-3

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 3
3. Border & Pedestrian 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	18		1 1/2	3/8	3/8		1 1/2	6 1/4	7 7/8	12	3																2.25
2S	24		1 1/2	3/8	1/2		2	8 1/2	10 1/2	15	4																4.00
2M	24		1 1/2	3/8	1/2		2	8 1/2	10 1/2	15	4																4.00
3																											
4																											
5																											

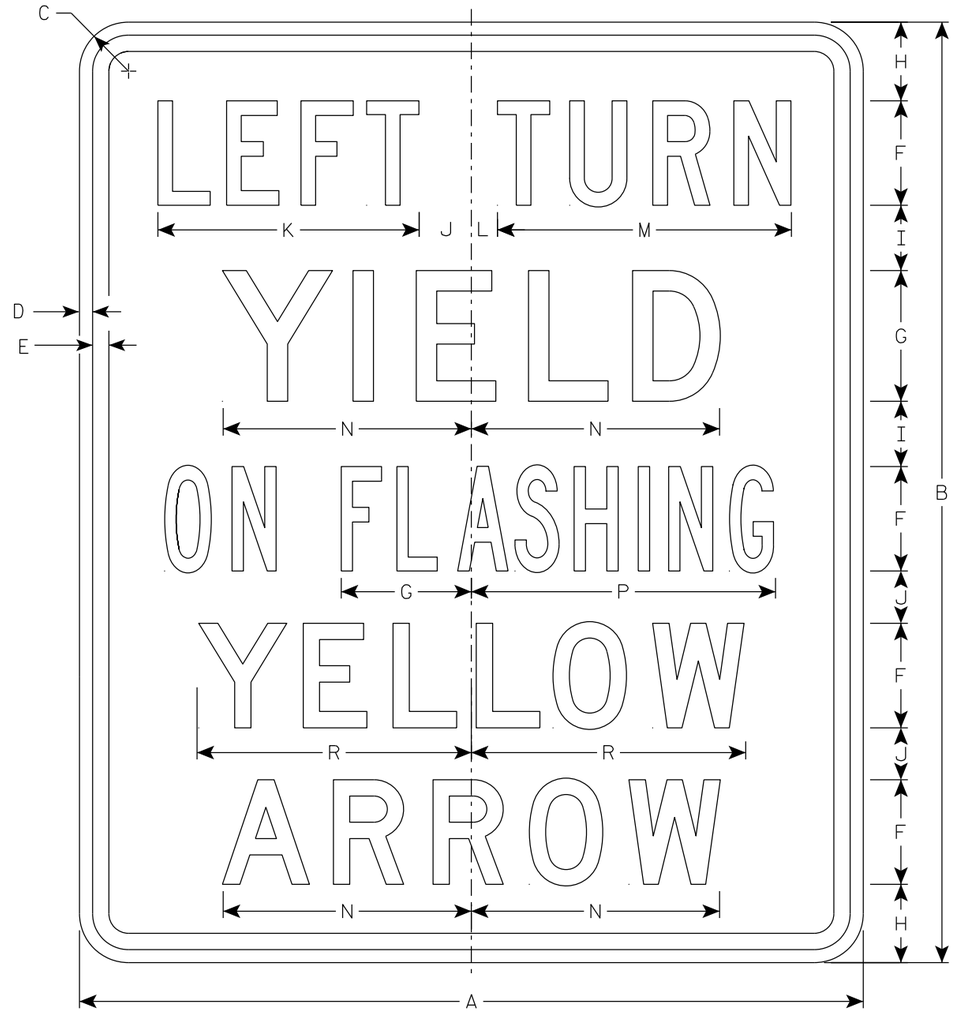
STANDARD SIGN
R9-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/25 PLATE NO. R9-3.1

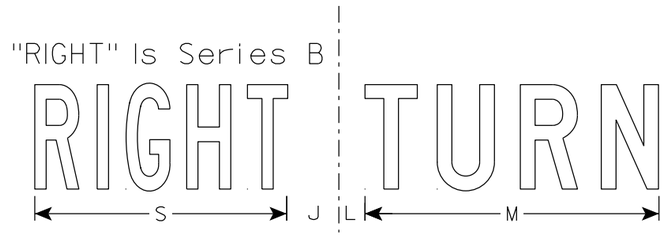
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



R10-50L

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series C.
   Lines 2, 4 and 5 are Series D.
   Line 3 is Series B.



R10-50R

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 7/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
2M	30	36	1 7/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
3																											
4																											
5																											

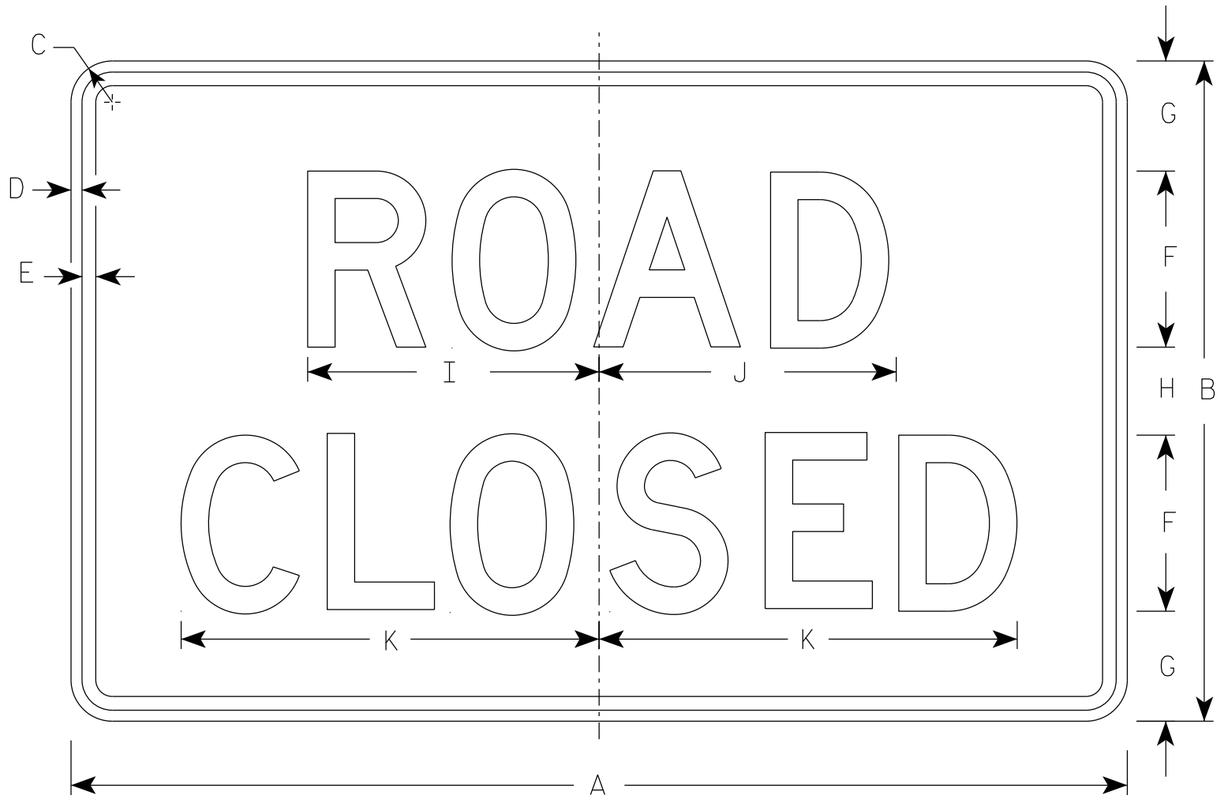
STANDARD SIGN
R10-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R10-50.3

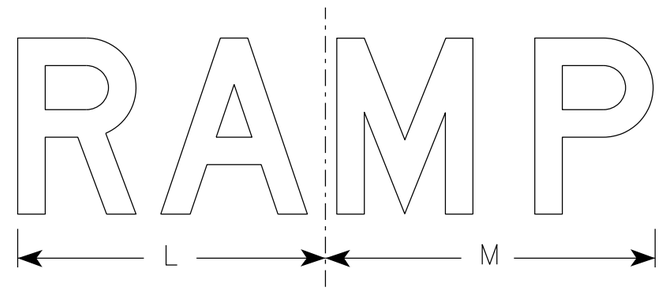
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 715 | E



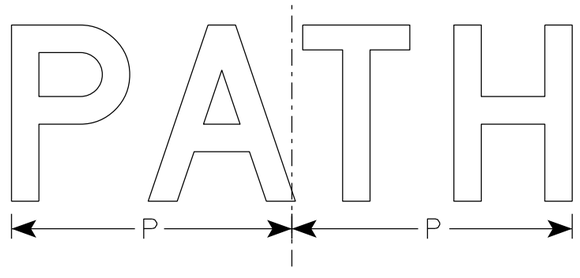
R11-2

NOTES

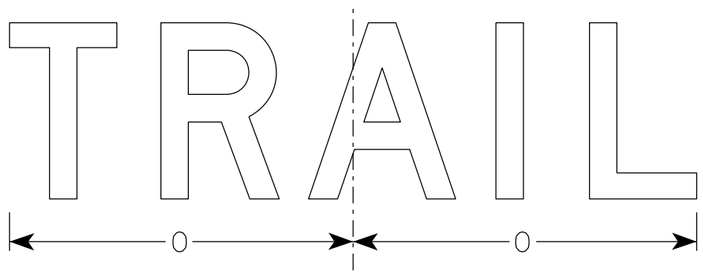
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



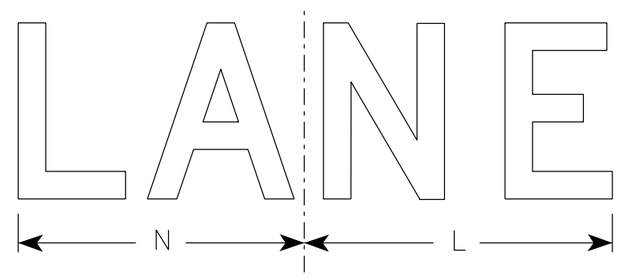
R11-2R



R11-2C



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0

STANDARD SIGN
R11-2

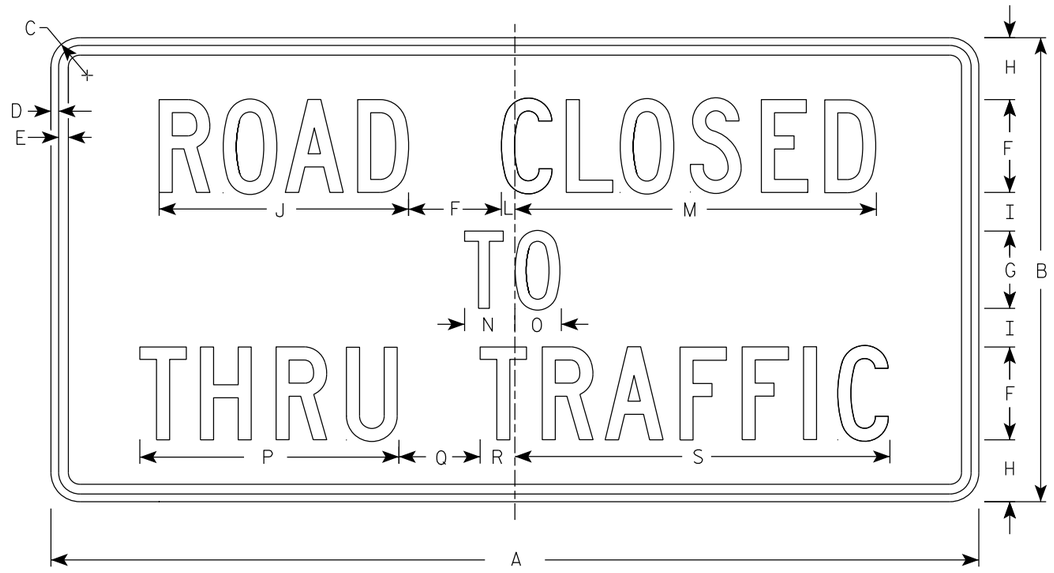
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/3/26 PLATE NO. R11-2.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn PLOT DATE : 3-FEB 2026 9:02 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



R11-4

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

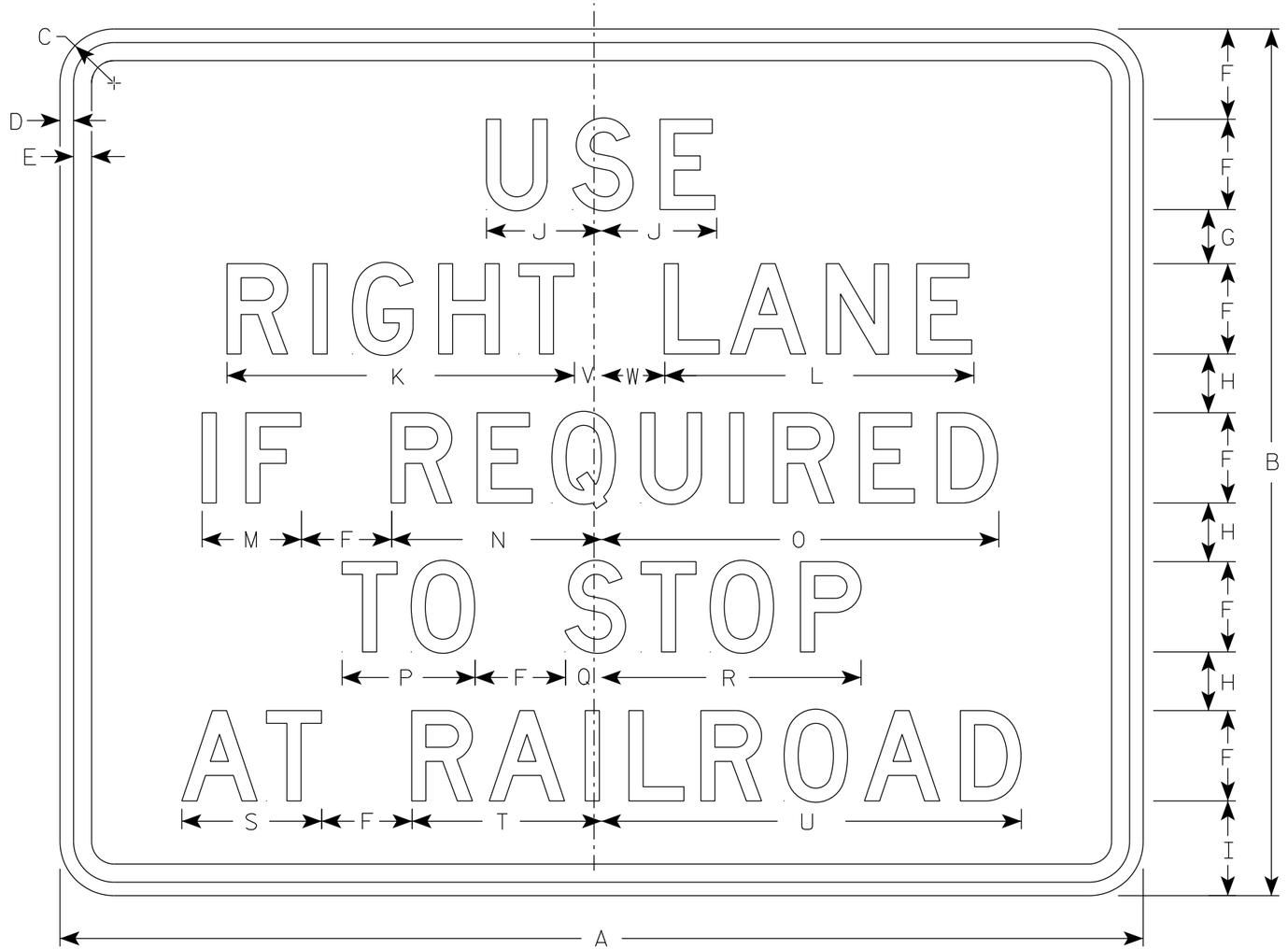
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 717 | E



R15-50

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	60	48	3	3/4	1	5	3	3 1/4	5 1/4	6 3/8	19 1/4	14 1/2	5 1/2	11 5/8	22	7 3/8	2	14 3/8	7 3/4	10 1/2	23 1/4	1 1/2	3 1/2				20.0
5	60	48	3	3/4	1	5	3	3 1/4	5 1/4	6 3/8	19 1/4	14 1/2	5 1/2	11 5/8	22	7 3/8	2	14 3/8	7 3/4	10 1/2	23 1/4	1 1/2	3 1/2				20.0

STANDARD SIGN
R15-50

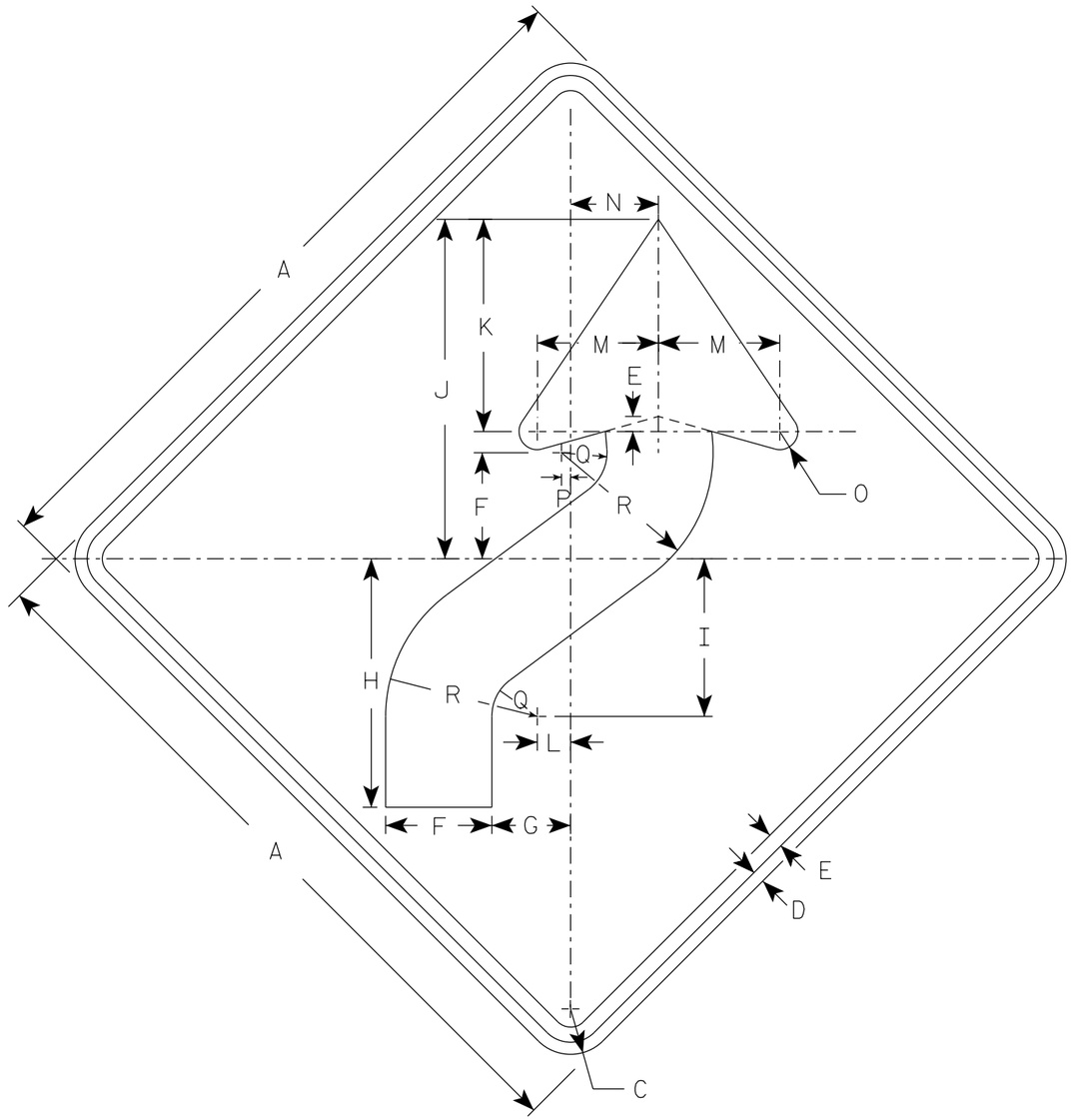
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/24 PLATE NO. R15-50.3

PROJECT NO:

SHEET NO: 718 E



W1-4R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W1-4L is the same as W1-4R 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	24		1 1/2	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 7/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

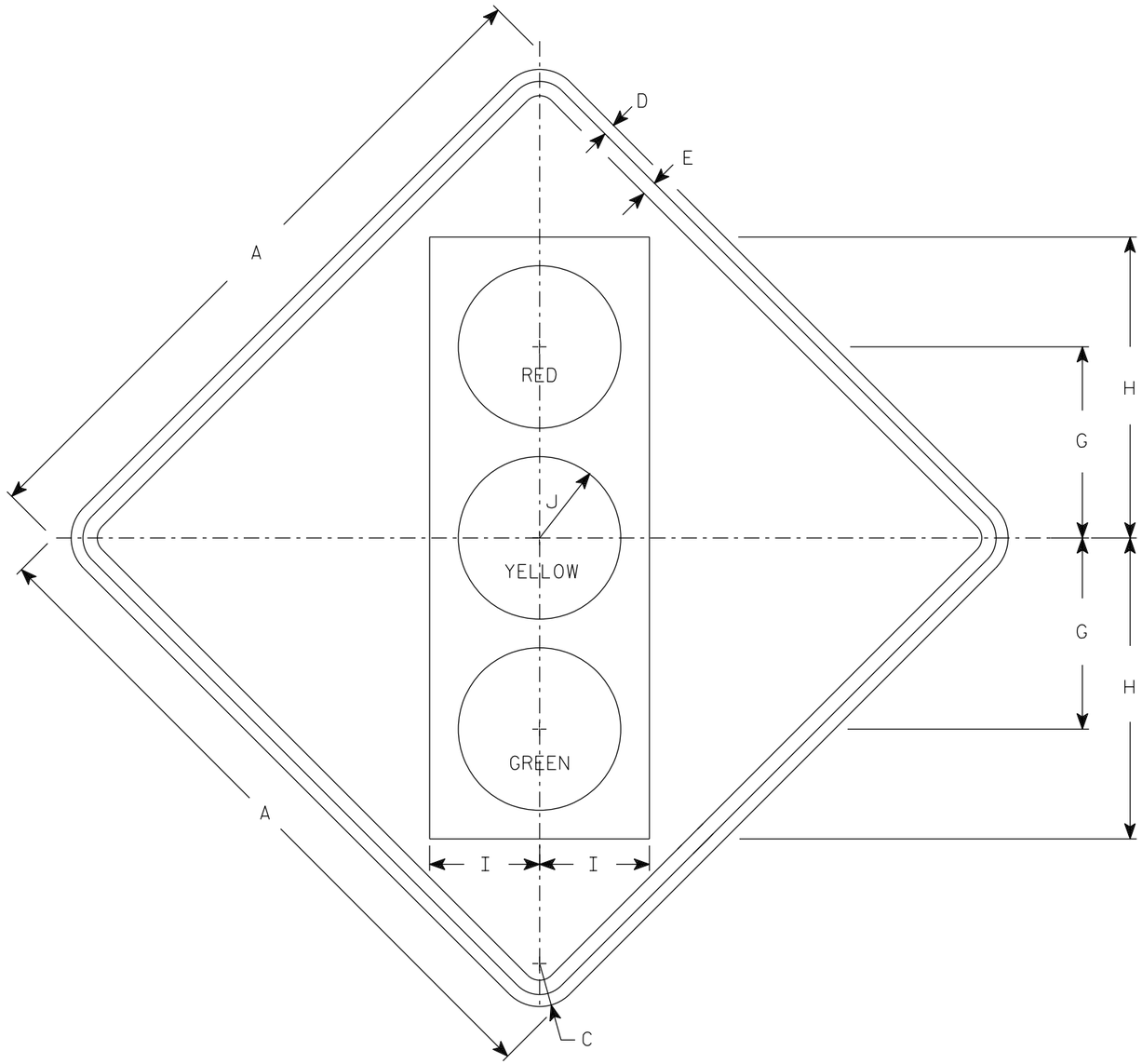
STANDARD SIGN
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/2023 PLATE NO. W1-4.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E



W3-3

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - See Note 3
3. 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 7/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		2 1/4	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		2 1/4	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		2 1/4	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0

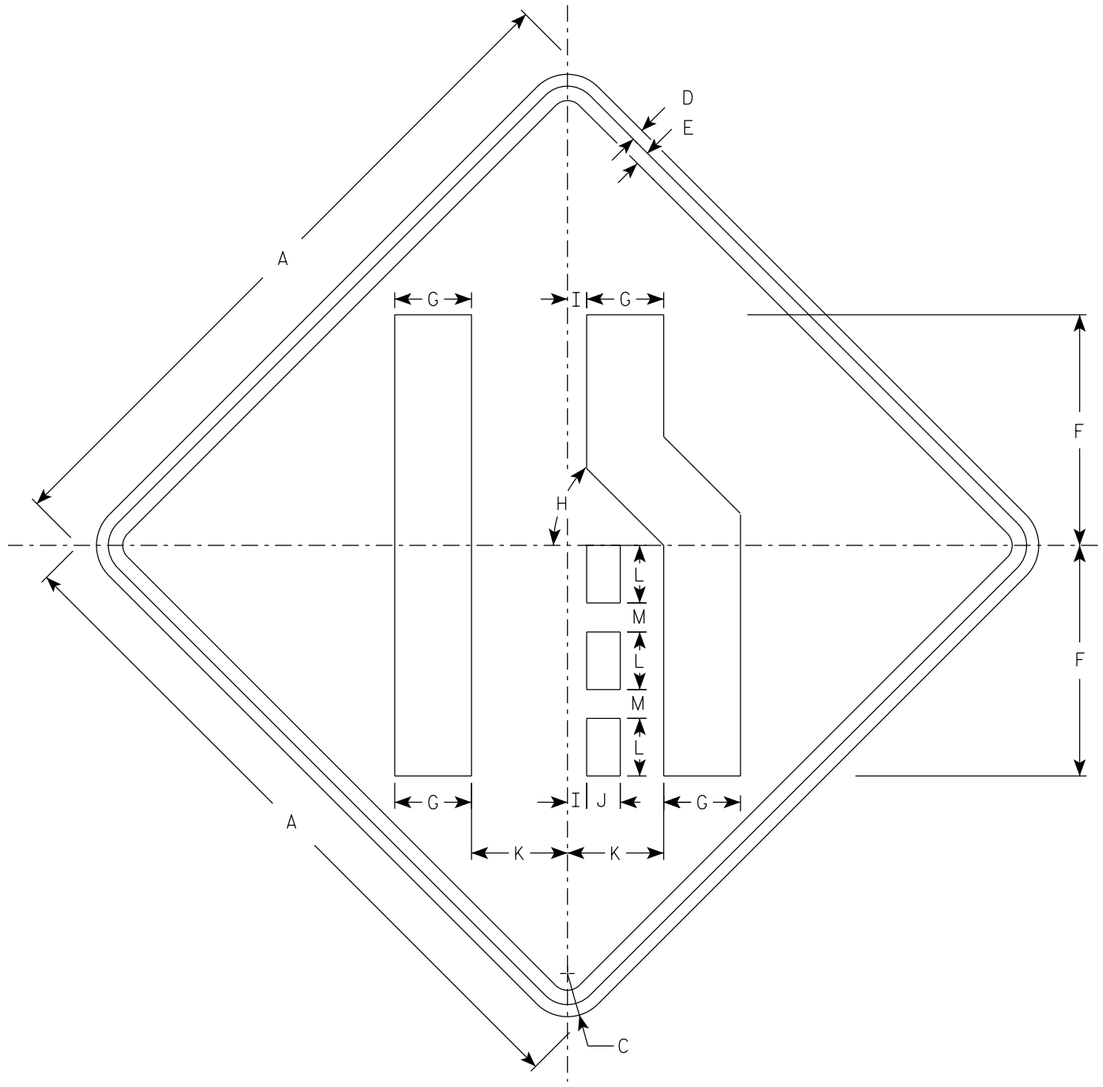
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/2023 PLATE NO. W3-3.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 720	E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W4-2L is the same as W4-2R except the symbolis reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

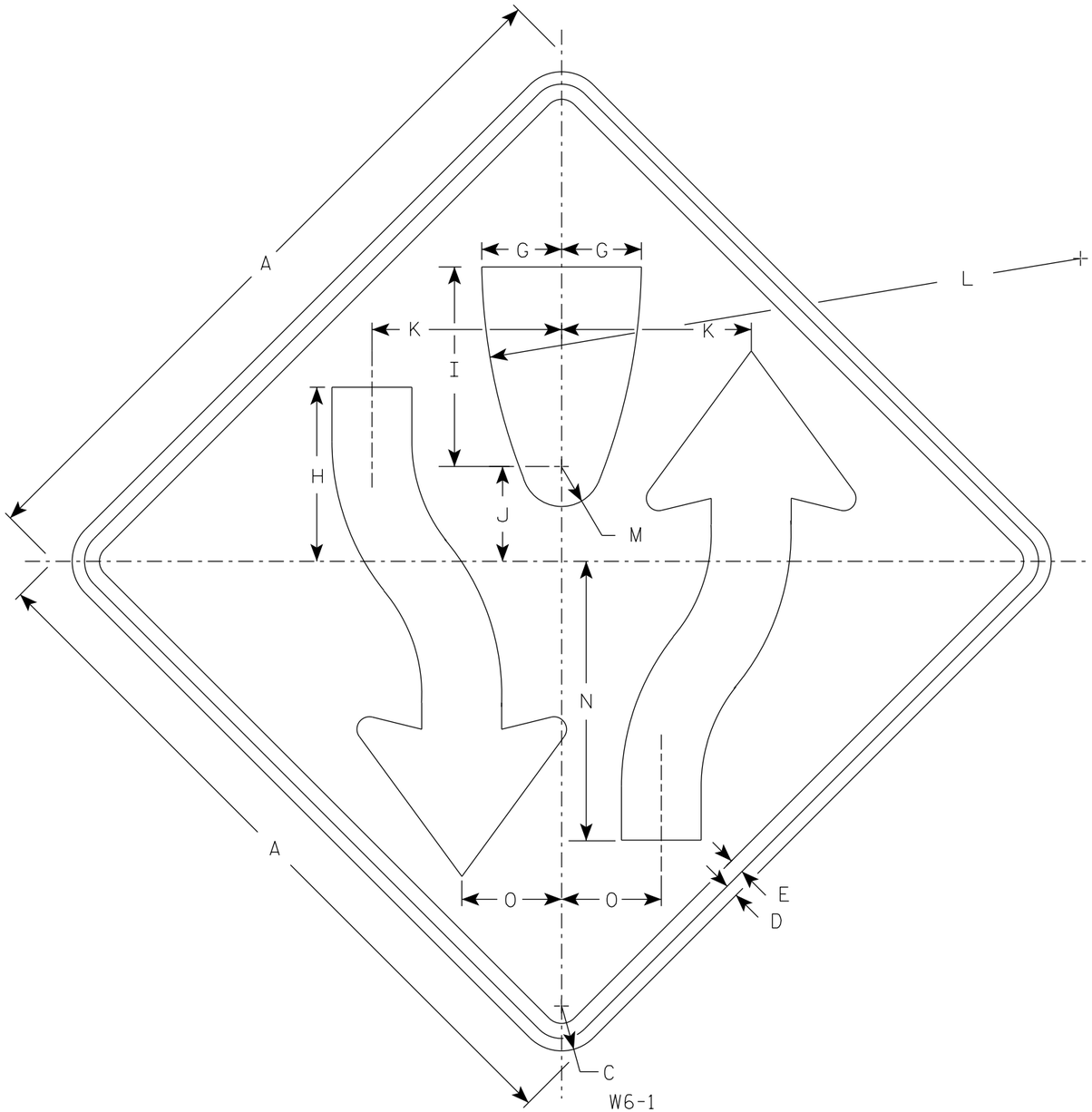
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/31/2023 PLATE NO. W4-2.15

PROJECT NO:

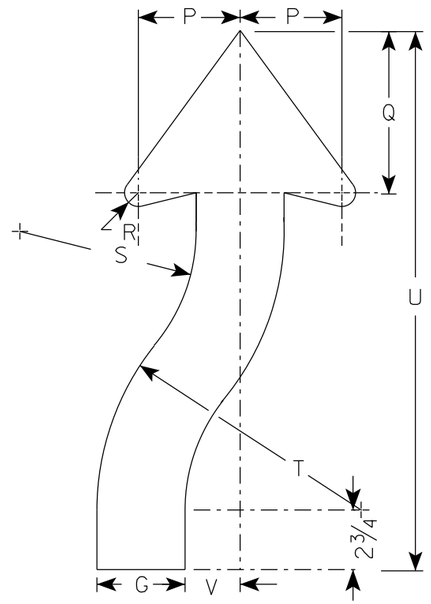
SHEET NO: 721 E



W6-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		2 1/4	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		2 1/4	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3	36		2 1/4	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
4	48		3	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		3	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

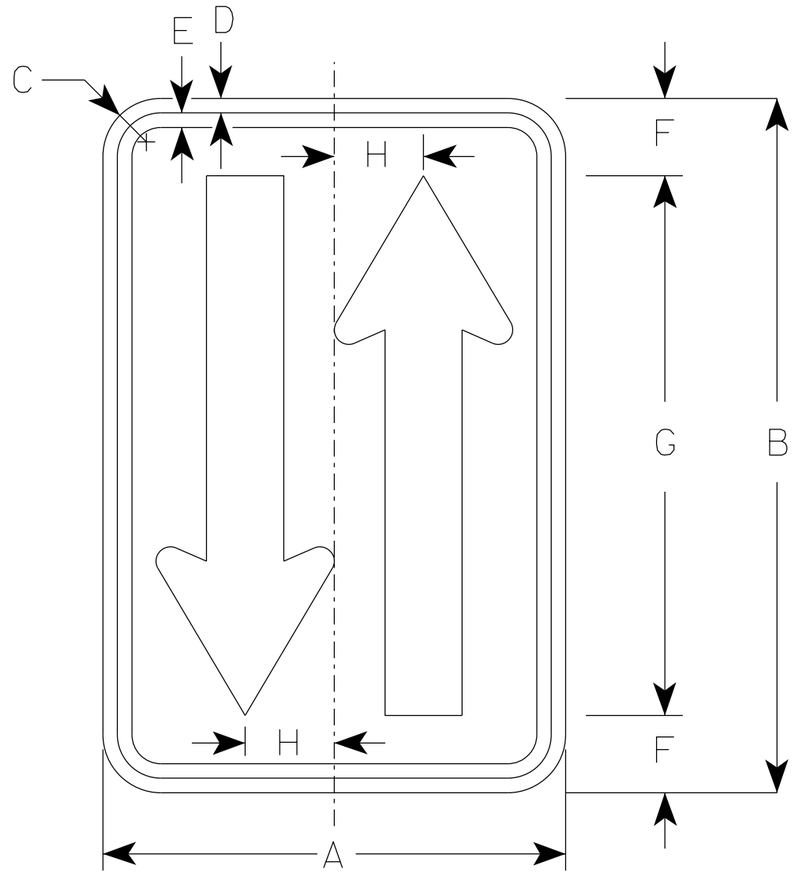
STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/6/2023 PLATE NO. W6-1.15

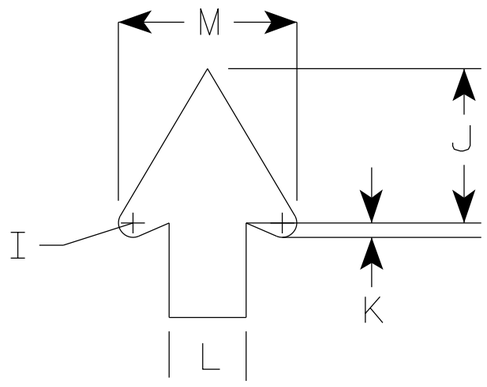
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 722	E



W6-4

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black



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	12	18	1 1/2	3/8	3/8	2	14	2 1/4	3/8	4	1/8	2	4 5/8														1.5
2M	12	18	1 1/2	3/8	3/8	2	14	2 1/4	3/8	4	1/8	2	4 5/8														1.5
3																											
4																											
5																											

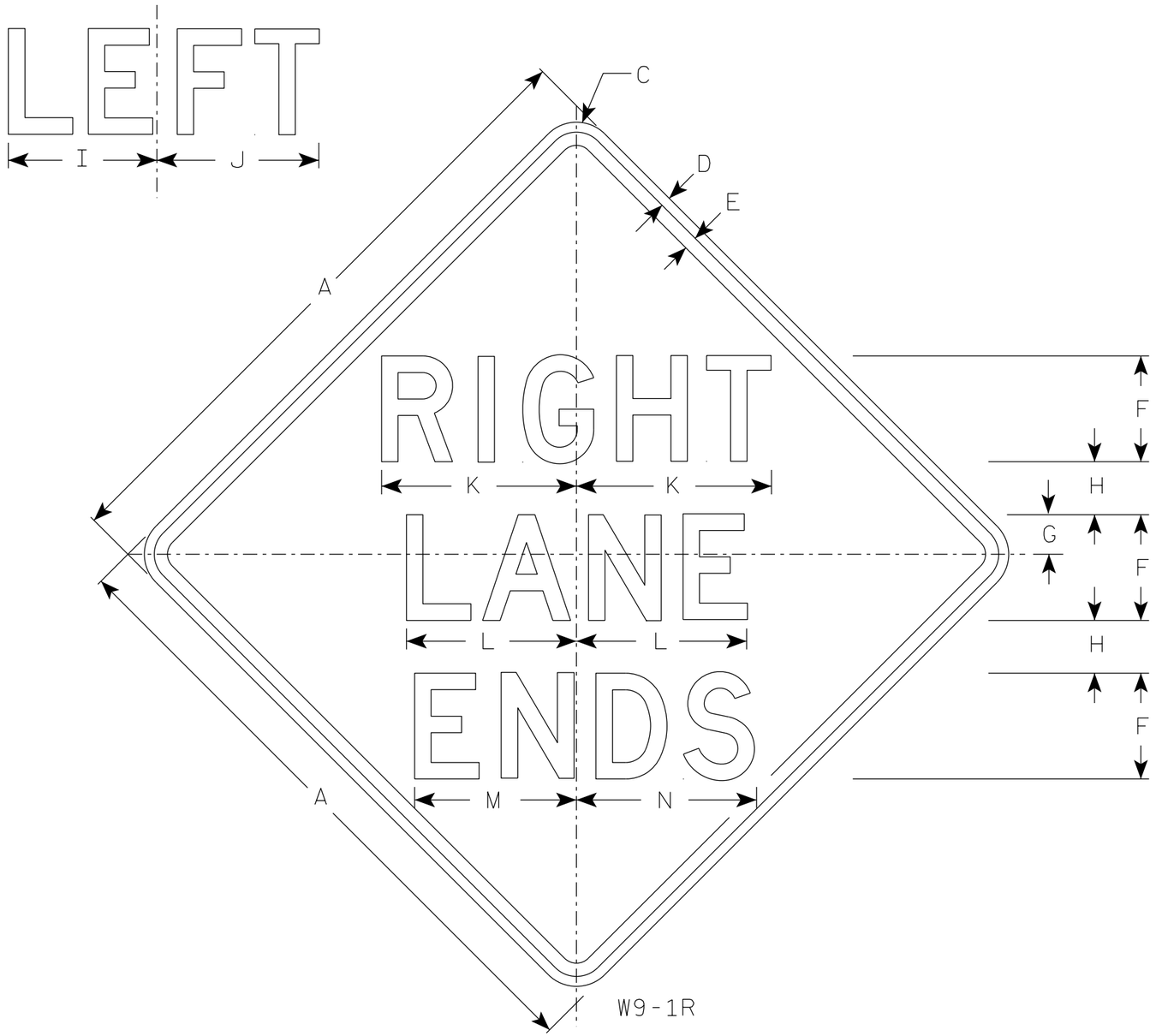
STANDARD SIGN
W6-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/6/2023 PLATE NO. W6-4.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 723	E



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. W9-1L same as W9-1R except the word Left replaces 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	30		1 7/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		2 1/4	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		2 1/4	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		2 1/4	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		2 1/4	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		3	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

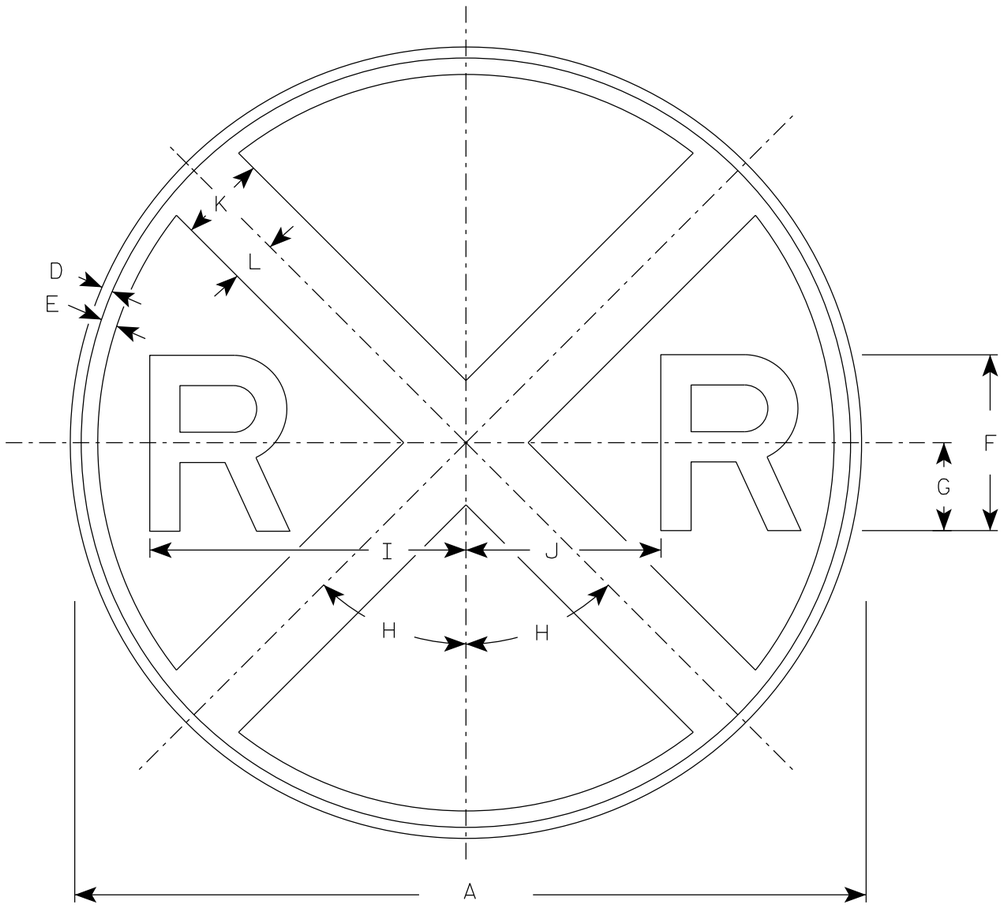
DATE 11/9/2023 PLATE NO. W9-1.9

PROJECT NO:

SHEET NO: 724 E

7

7



W10-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

STANDARD SIGN
W10-1

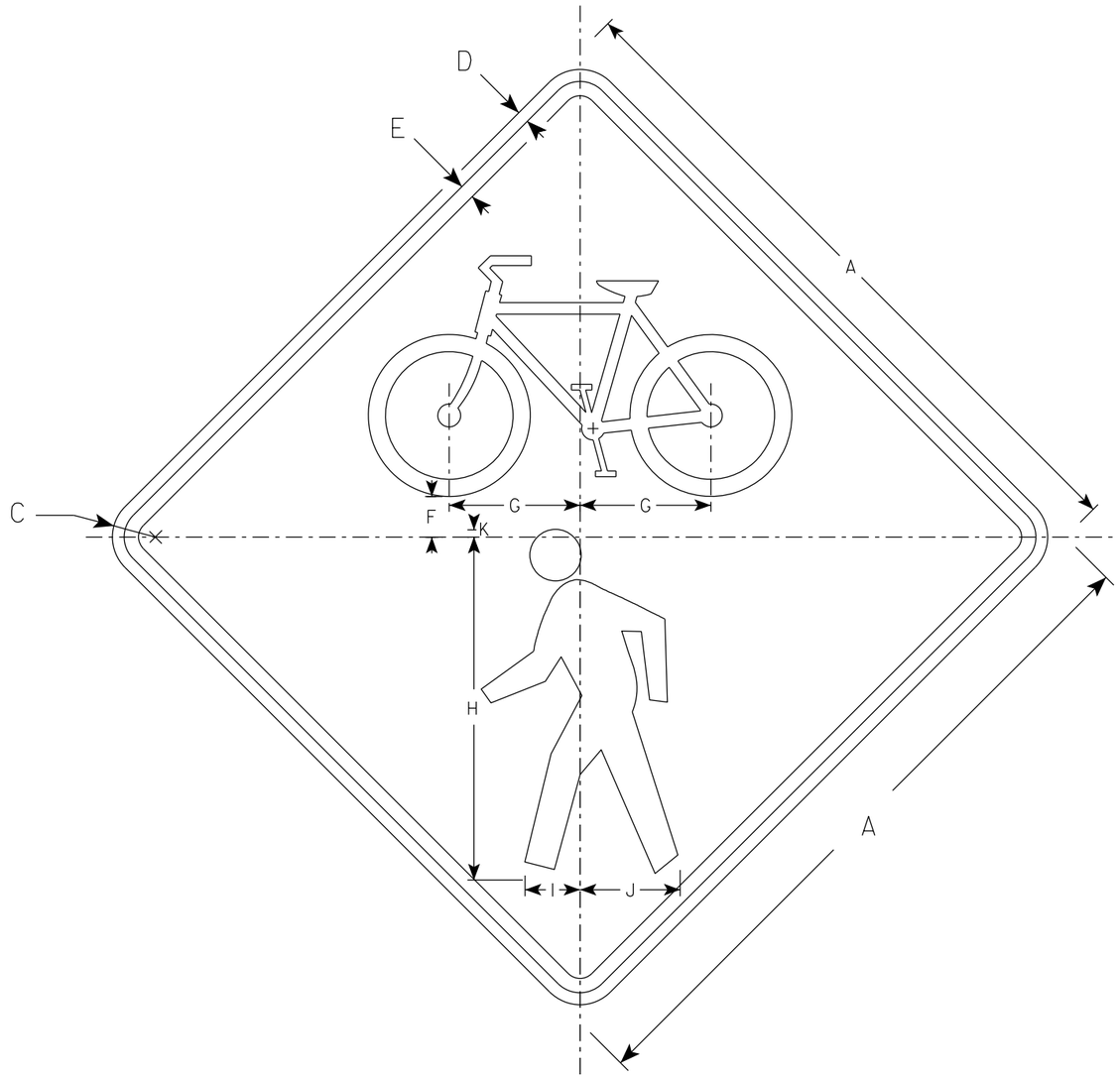
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/27/24 PLATE NO. W10-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 725 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_W101.dgn PLOT DATE : 27-MAR 2024 3:30 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W11-15

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	1 3/8	4 5/8	12	1 7/8	3 1/2	1/4																4.0
2S	30		1 7/8	1/2	5/8	1 3/4	5 3/4	15	2 3/8	4 3/8	3/8																6.25
2M	36		2 1/4	5/8	3/4	2 1/8	6 7/8	18	2 7/8	5 1/4	3/8																9.0
3	36		2 1/4	5/8	3/4	2 1/8	6 7/8	18	2 7/8	5 1/4	3/8																9.0
4	48		3	3/4	1	2 7/8	9 1/8	24	3 7/8	7	1/2																16.0
5																											

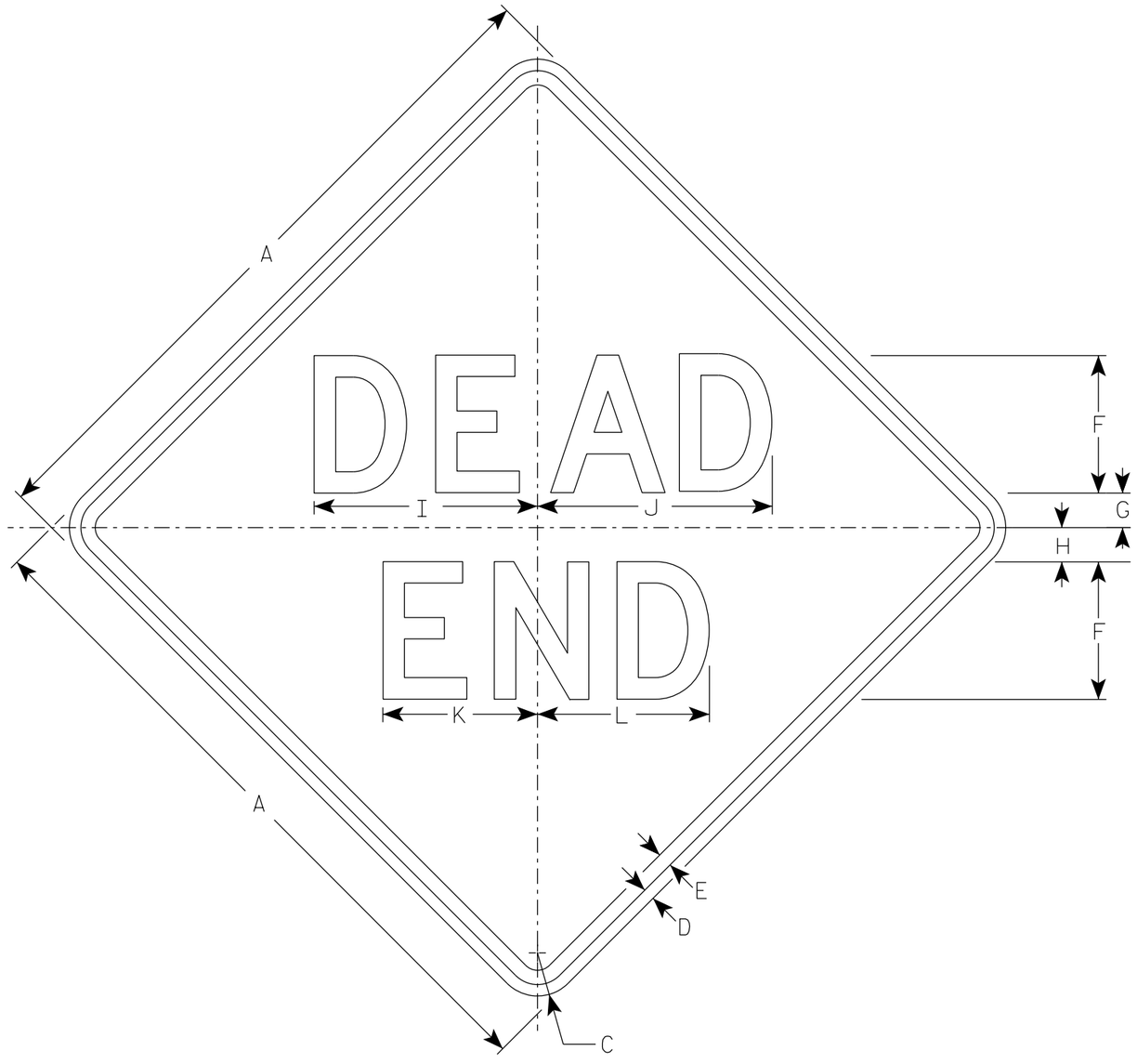
STANDARD SIGN
W11-15

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/2023 PLATE NO. W11-15.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 726 E



W14-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq sq. ft.
1	24		1 1/2	3/8	1/2	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0
2S	30		1 7/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 7/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		2 1/4	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0
4																											
5																											

STANDARD SIGN
W14-1

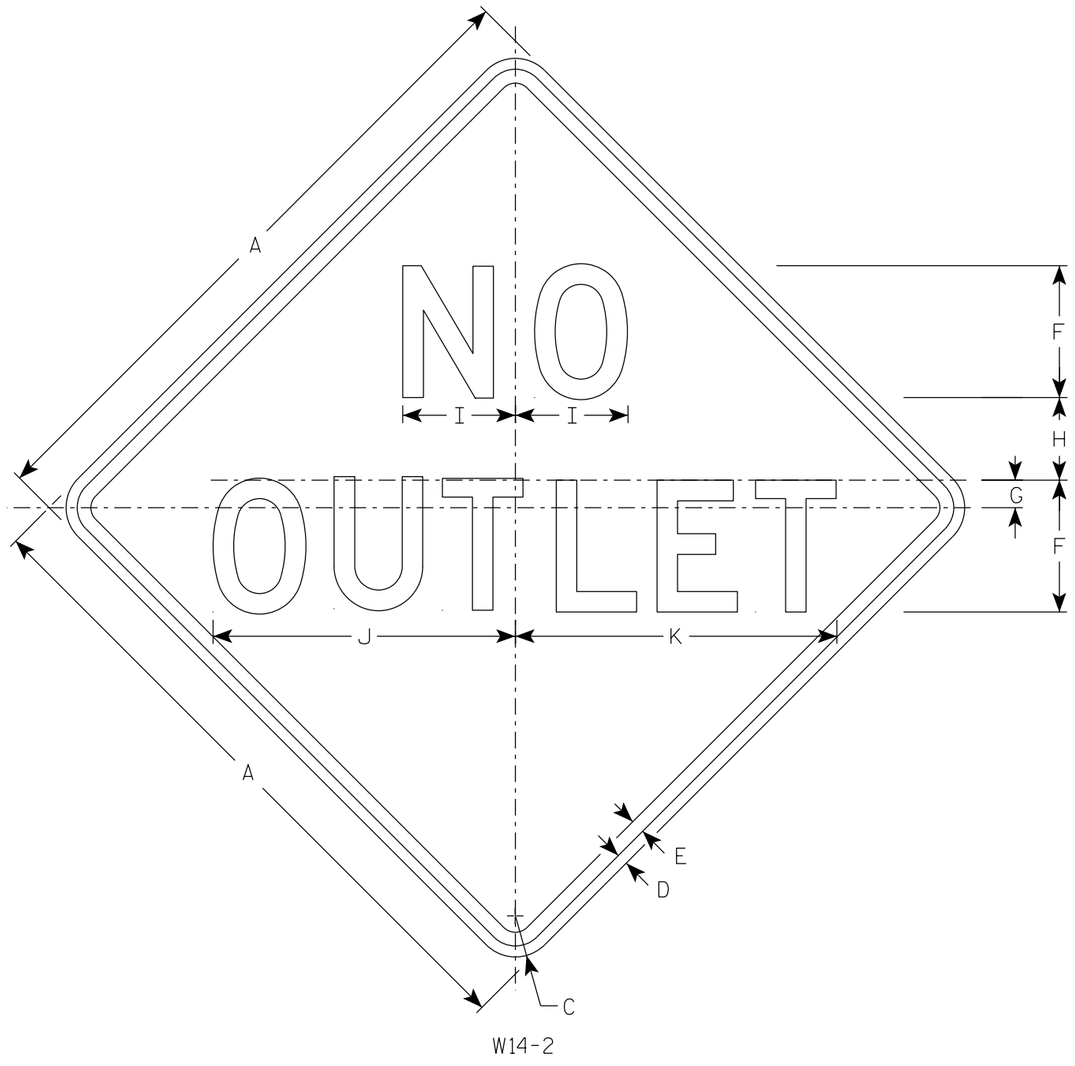
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/8/2024 PLATE NO. W14-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 727 | E

7



W14-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	5	1	2 3/4	4 1/8	11 3/4	12 3/8																4.0
2S	30		1 7/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
2M	30		1 7/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
3	36		2 1/4	5/8	3/4	7	1 3/8	4 5/8	6	16 1/8	17 1/8																9.0
4																											
5																											

STANDARD SIGN
W14-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

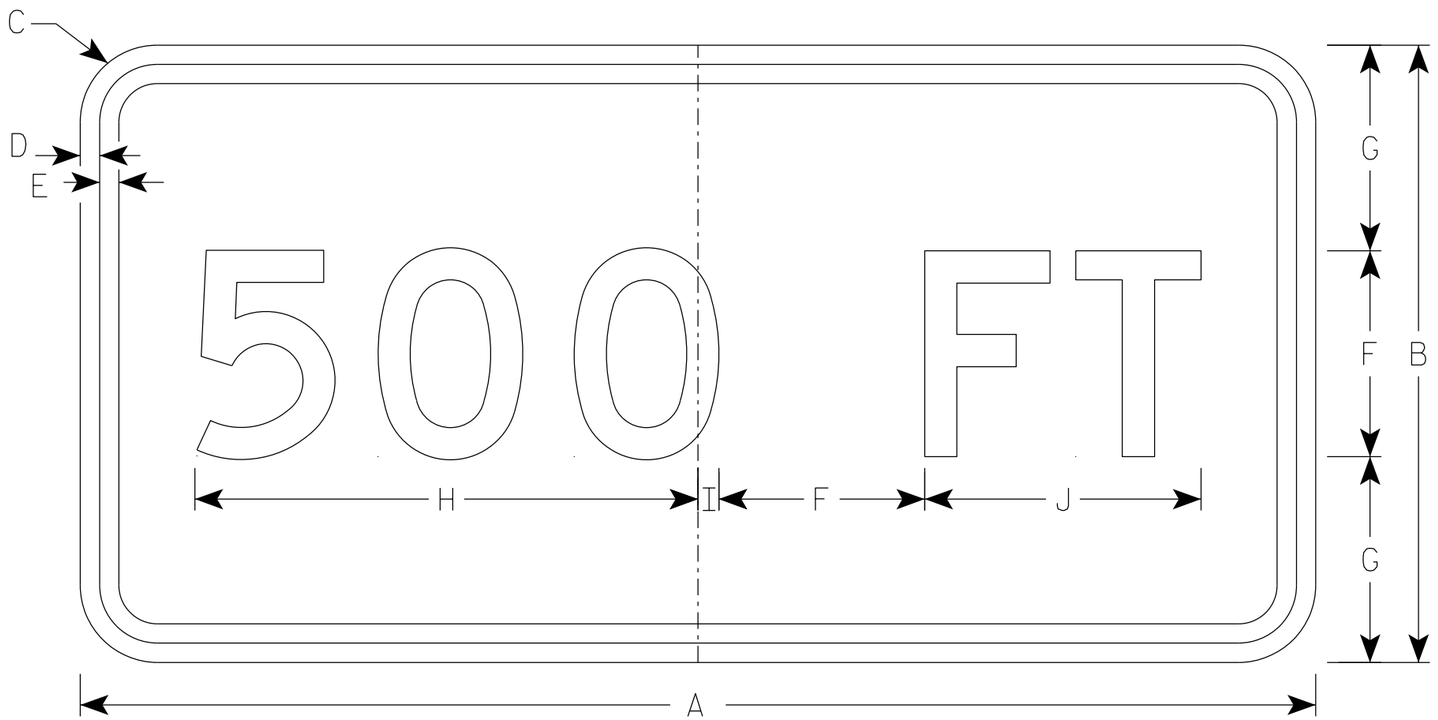
DATE 1/8/2024 PLATE NO. W14-2.4

PROJECT NO:

SHEET NO: 728 E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D



W16-2A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	4	4	9 3/4	3/8	5 3/8																	2.0
2M	24	12	1 1/2	3/8	3/8	4	4	9 3/4	3/8	5 3/8																	2.0
3	30	18	1 1/2	3/8	1/2	5	5 1/2	12 1/4	1/2	6 3/4																	3.75
4	42	21	1 7/8	1/2	5/8	7	7	16 5/8	1 1/8	9 3/8																	6.13
5	42	21	1 7/8	1/2	5/8	7	7	16 5/8	1 1/8	9 3/8																	

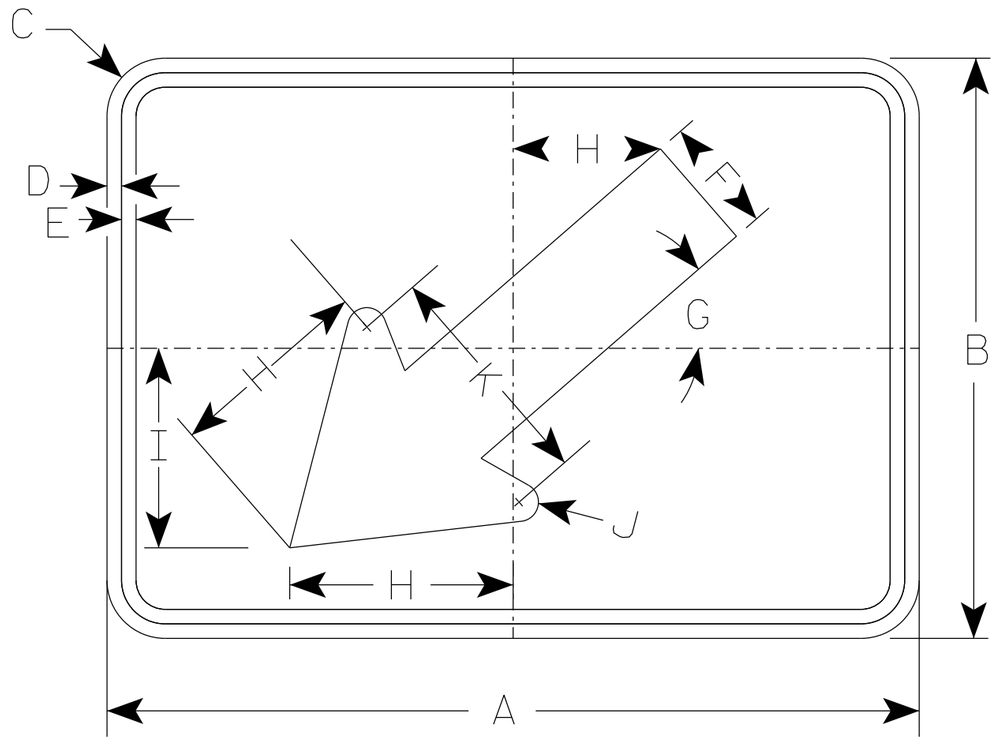
STANDARD SIGN
W16-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/16/2024 PLATE NO. W16-2A.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 729 E



W16-7L

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.

* For 36" x 36" Warning Signs, use 30" x 21" W16-7L signs.
* For 48" x 48" Warning Signs, use 42" 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	21	15	1 1/2	3/8	3/8	3	41°	5 1/4	5 1/8	1/2	6																2.19
*	2M	30	21	1 1/2	3/8	1/2	4 1/2	41°	8 5/8	7 3/4	5/8	9 1/4																4.38
*	3	30	21	1 1/2	3/8	1/2	4 1/2	41°	8 5/8	7 3/4	5/8	9 1/4																4.38
*	4	42	24	1 7/8	1/2	5/8	6	41°	10 1/4	9 1/8	1	12																7.0
	5																											

STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

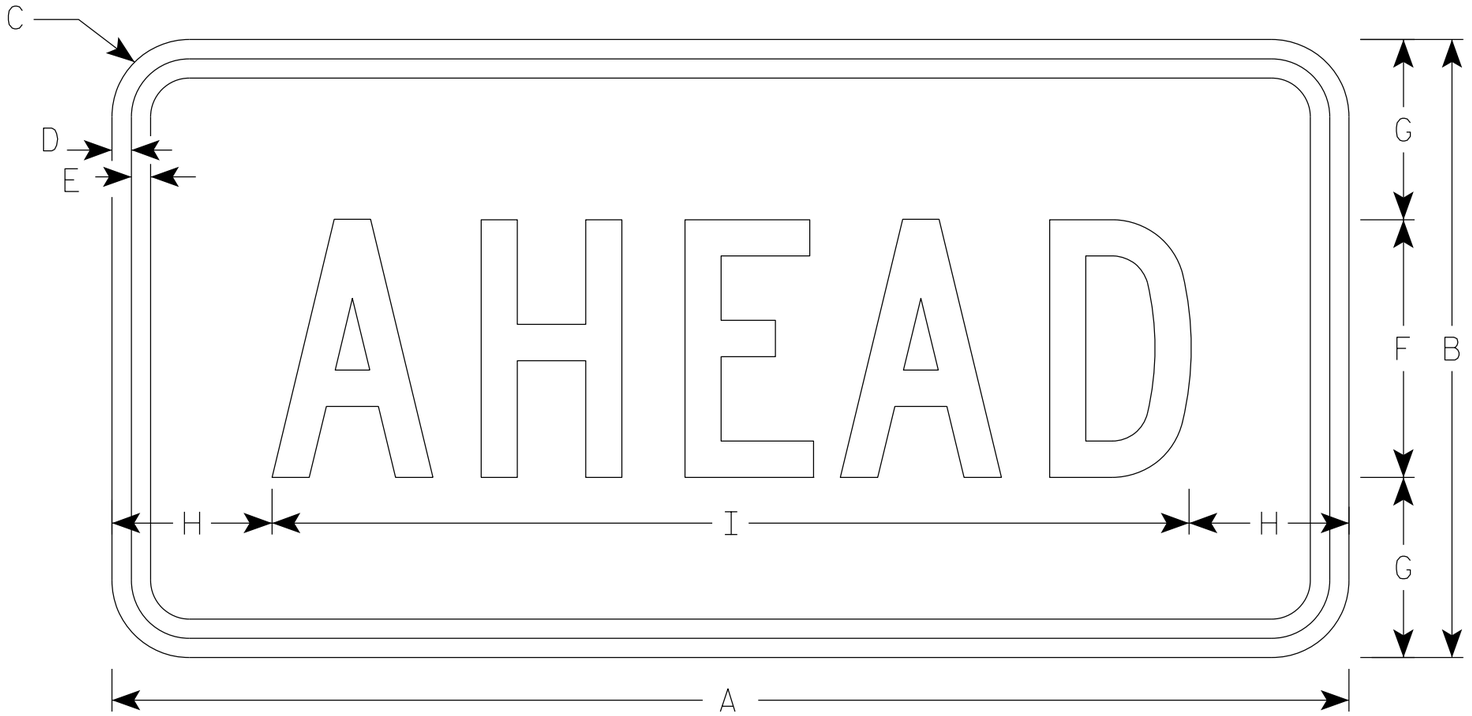
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/29/26 PLATE NO. W16-7.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 730 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C



W16-9P

* For 36" x 36" Warning Signs, use 30" x 18" W16-9P signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-9P signs.

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1																											
	2S	24	12	1 1/2	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
*	2M	30	18	1 1/2	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
*	3	30	18	1 1/2	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
*	4	48	24	1 7/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
	5																											

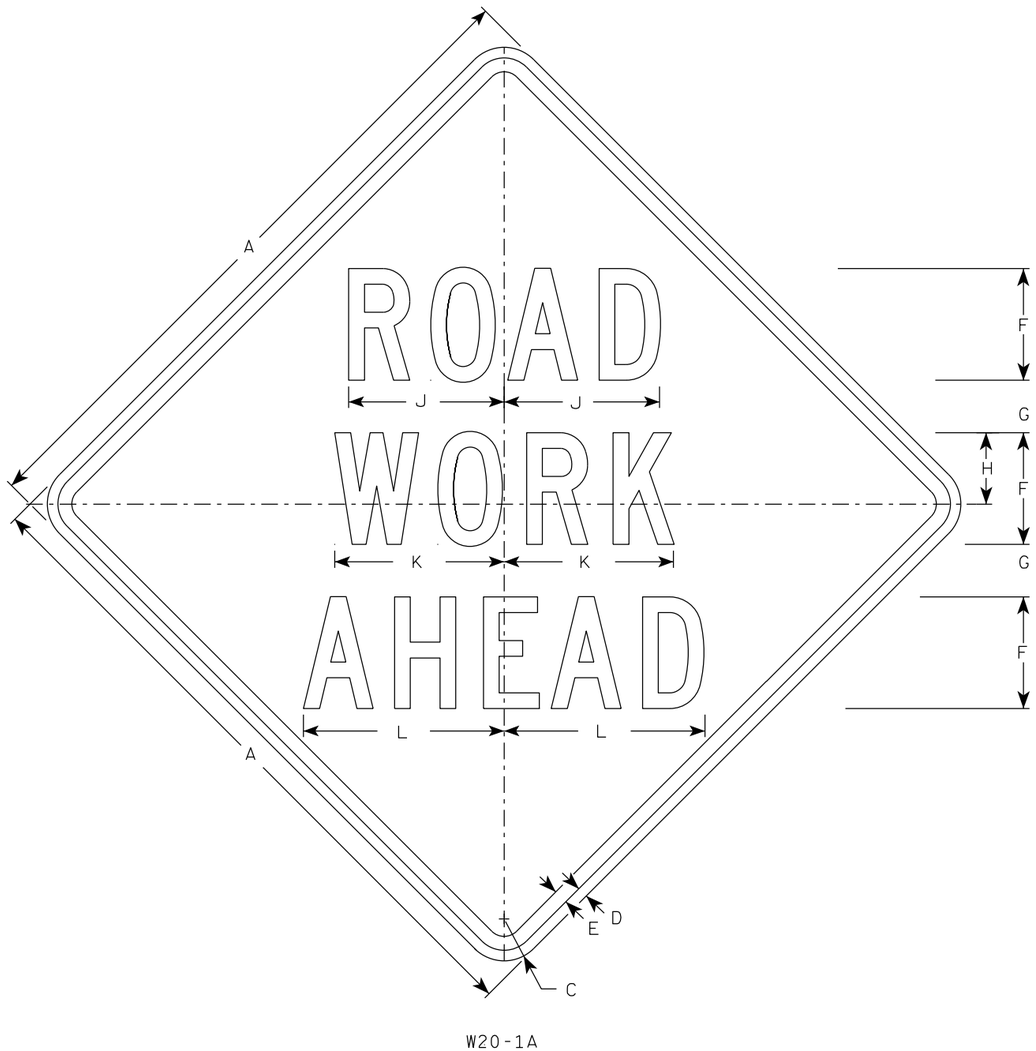
STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

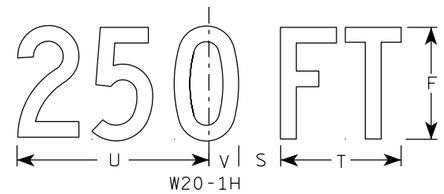
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/9/2024 PLATE NO. W16-9P.9

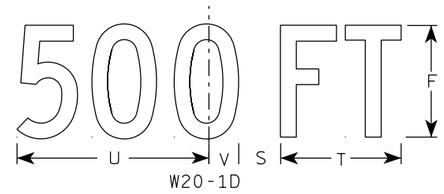
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 731 E



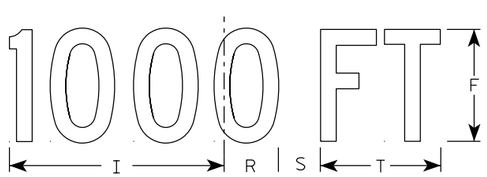
W20-1A



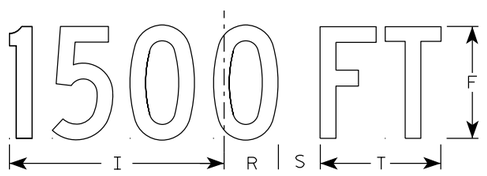
W20-1H



W20-1D



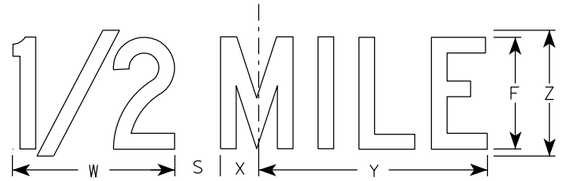
W20-1C



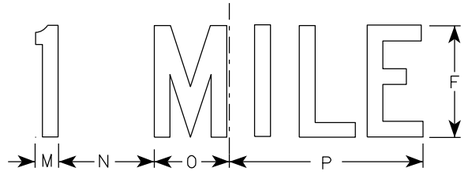
W20-1B

NOTES

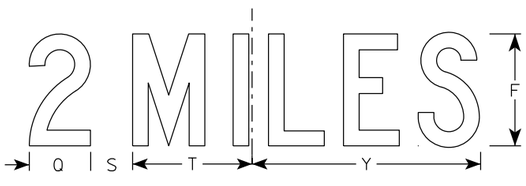
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

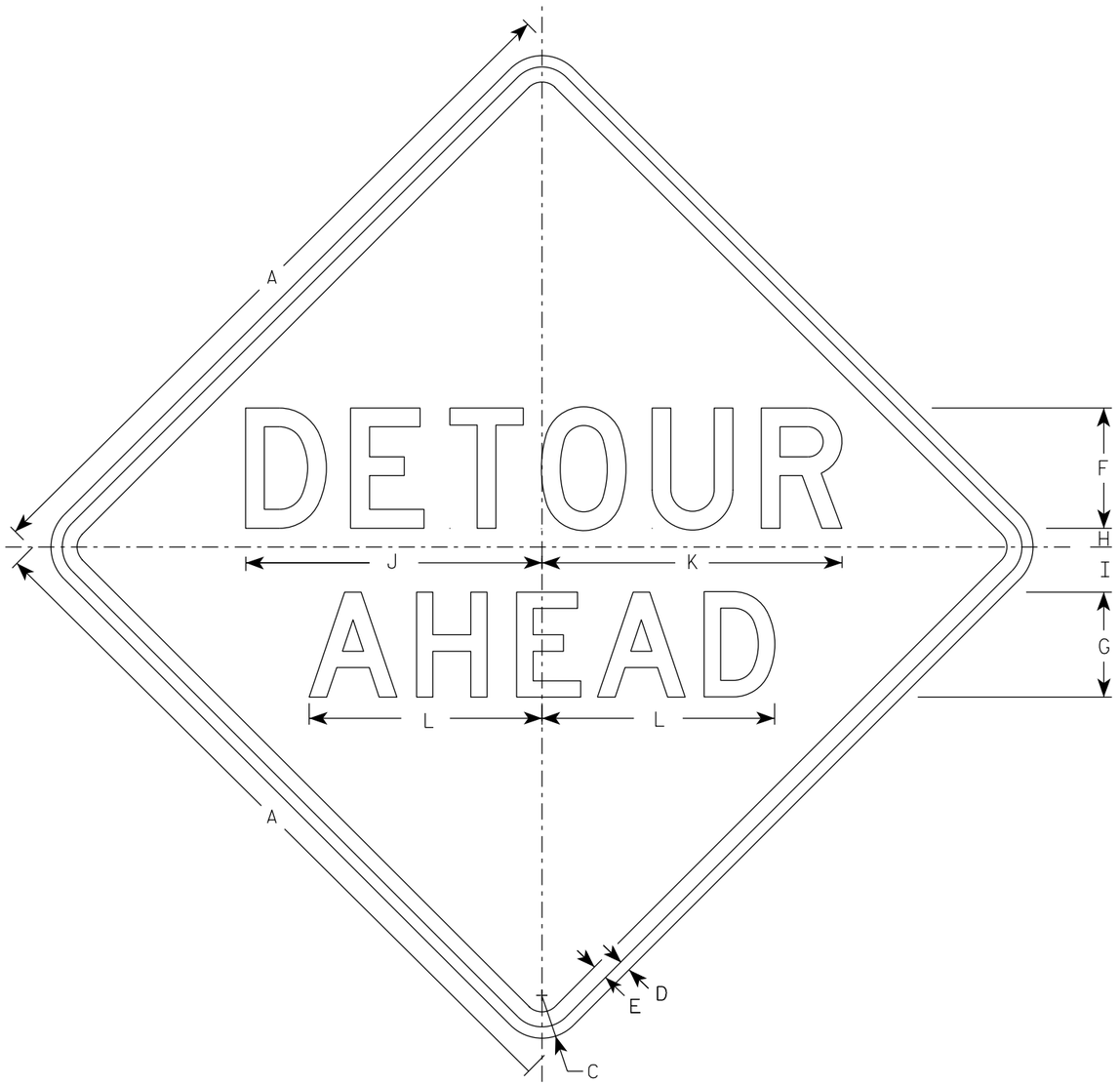
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

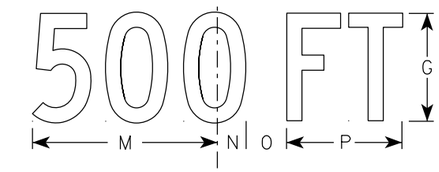
DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

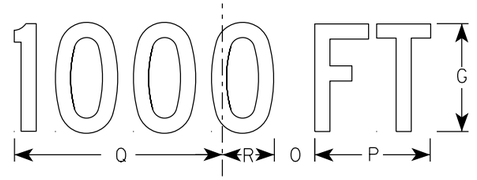
SHEET NO: 732 E



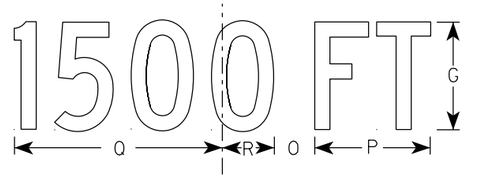
W20-2A



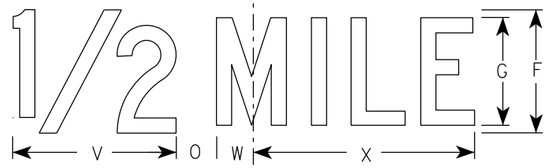
W20-2D



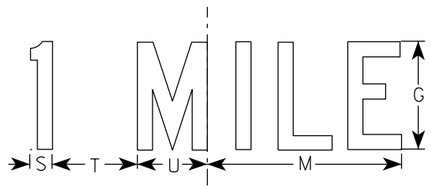
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

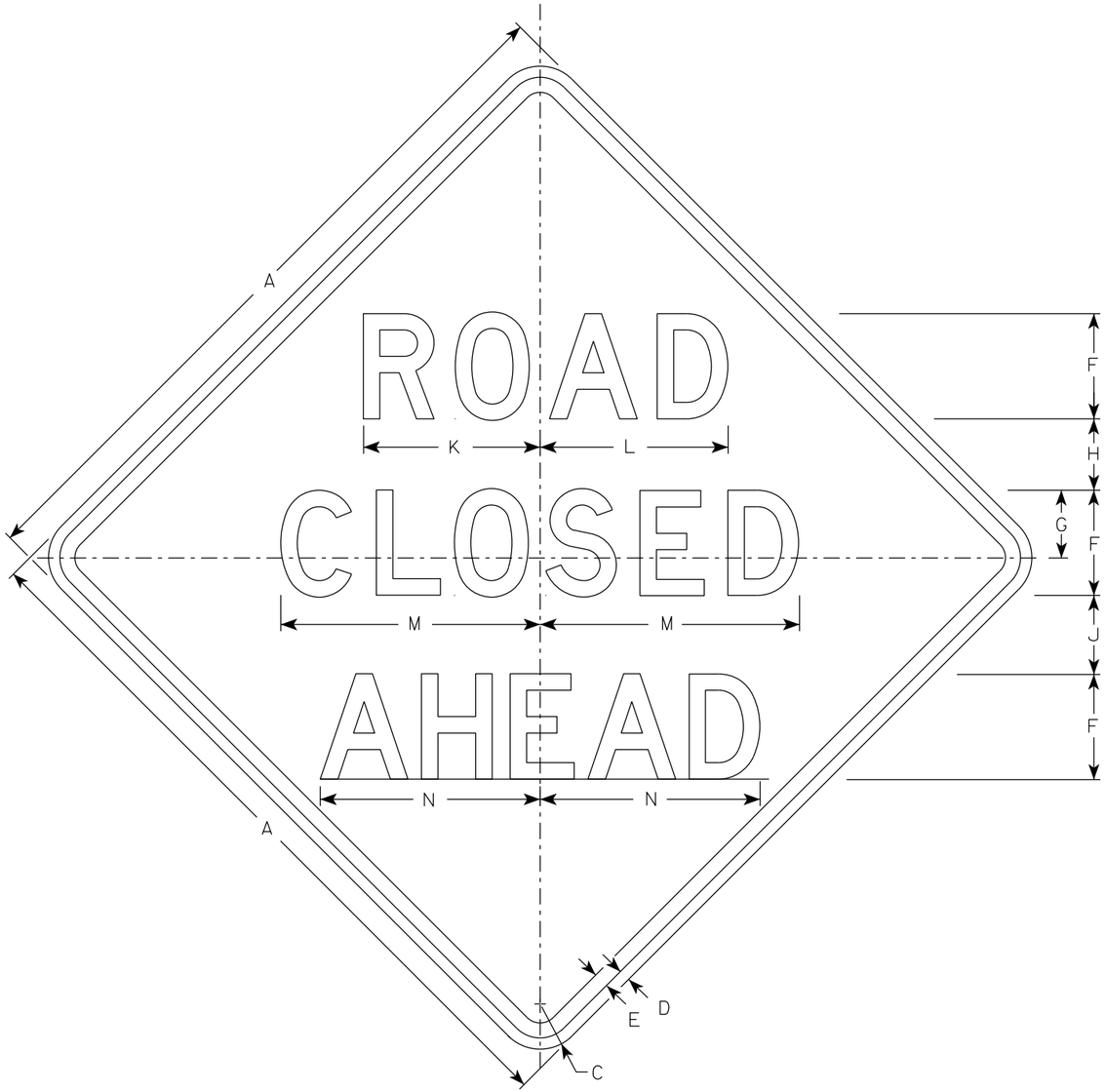
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

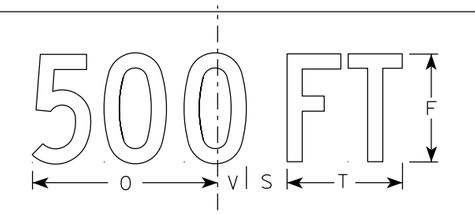
DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

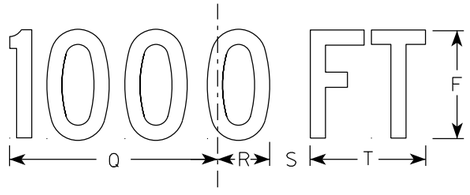
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



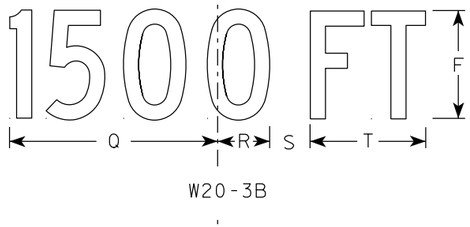
W20-3A



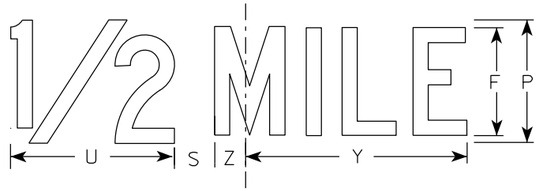
W20-3D



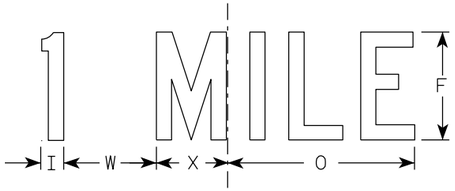
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

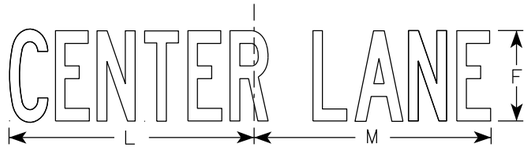
STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

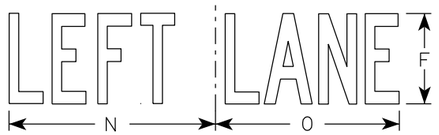
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

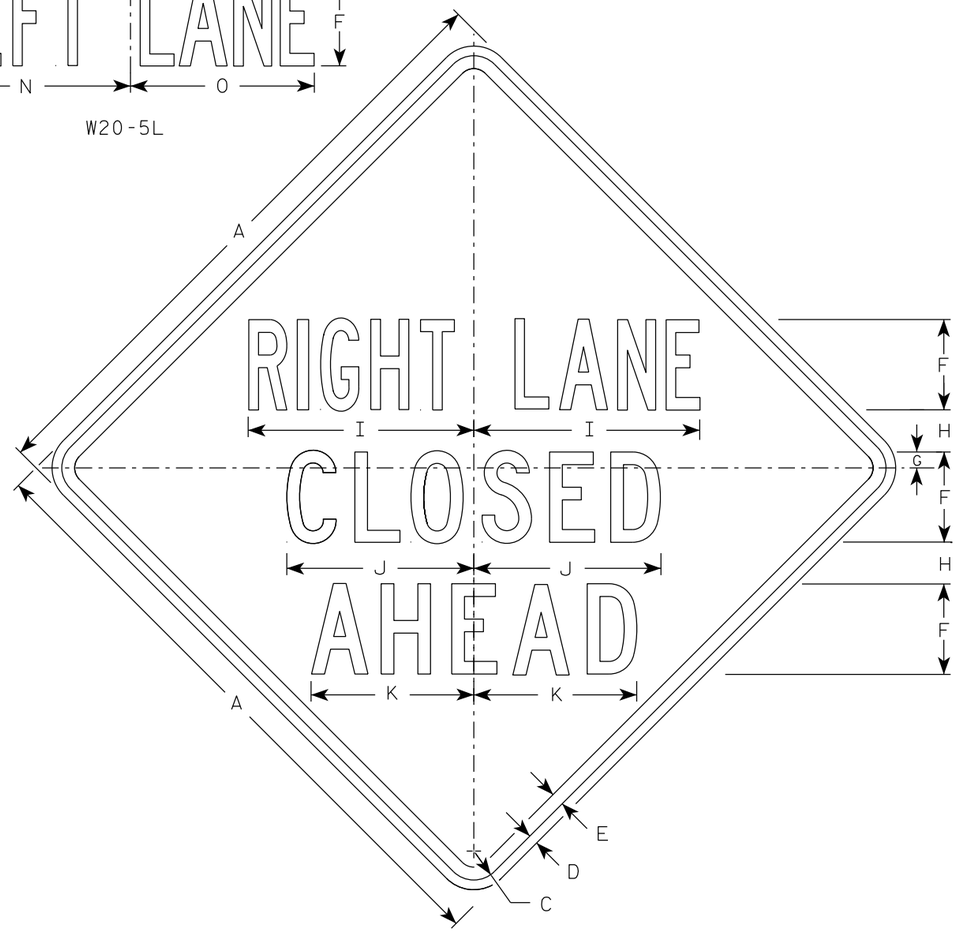
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 734 | E



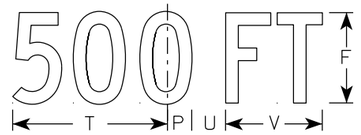
W20-5C



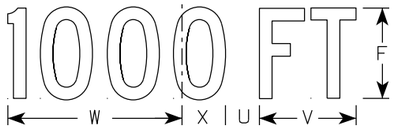
W20-5L



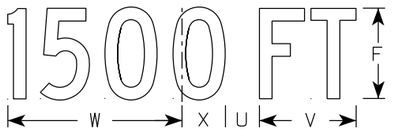
W20-5R



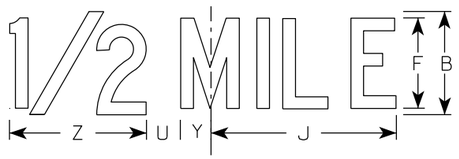
W20-5CD
W20-5LD
W20-5RD



W20-5CE
W20-5LE
W20-5RE



W20-5CB
W20-5LB
W20-5RB



W20-5CG
W20-5LG
W20-5RG



W20-5CF
W20-5LF
W20-5RF

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	2 1/4	5/8	3/4	5	7/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 7/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

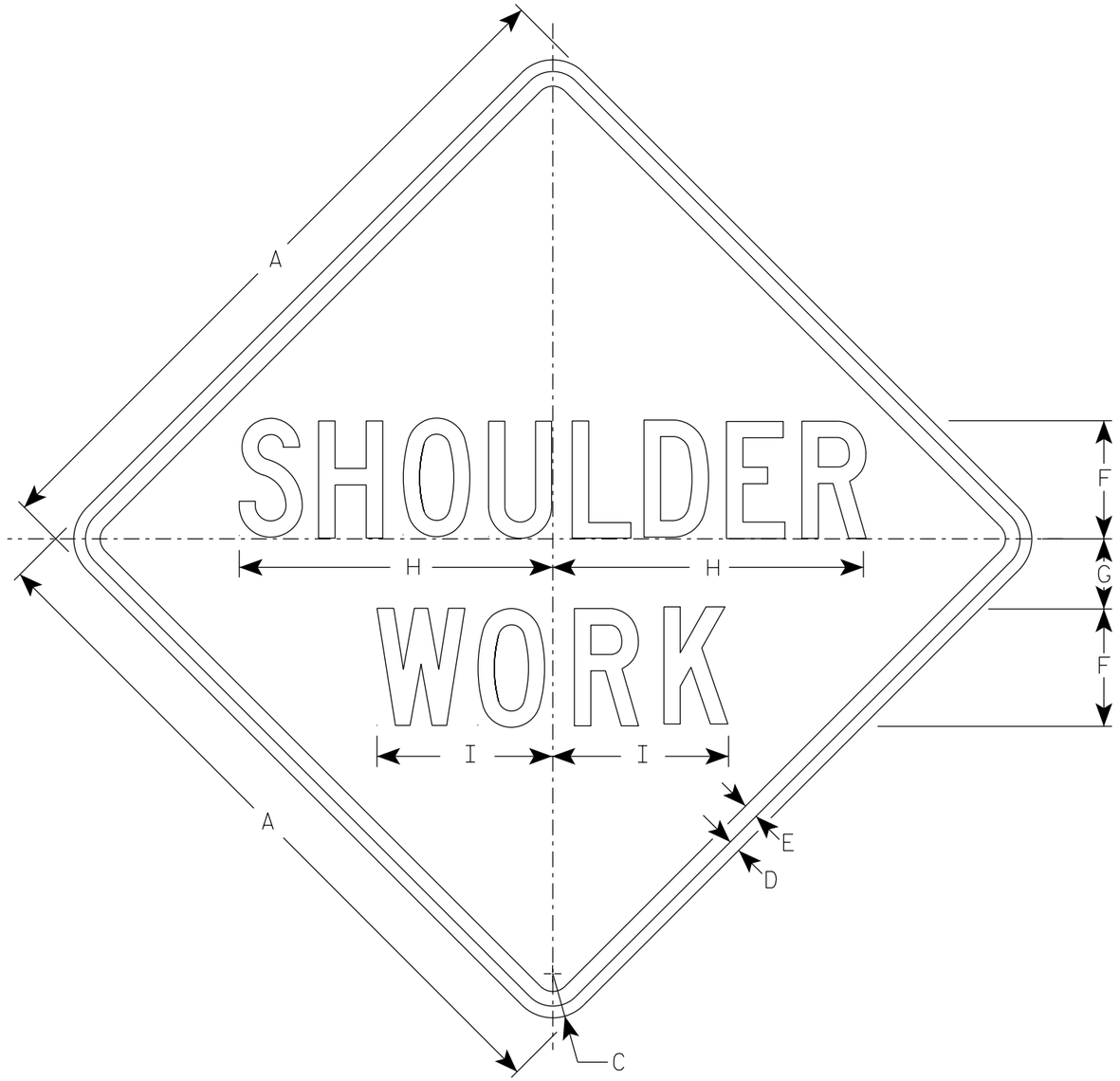
STANDARD SIGN
W20-5C,L,R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/26 PLATE NO. W20-5.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 735 E



W21-5

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
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	36		2 1/4	5/8	3/4	6	3 1/2	16	9																		9.0
2S	48		3	3/4	1	8	5	21 3/8	11 1/4																		16.0
2M	48		3	3/4	1	8	5	21 3/8	11 1/4																		16.0
3	48		3	3/4	1	8	5	21 3/8	11 1/4																		16.0
4	48		3	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		3	3/4	1	8	5	21 3/8	11 1/4																		16.0

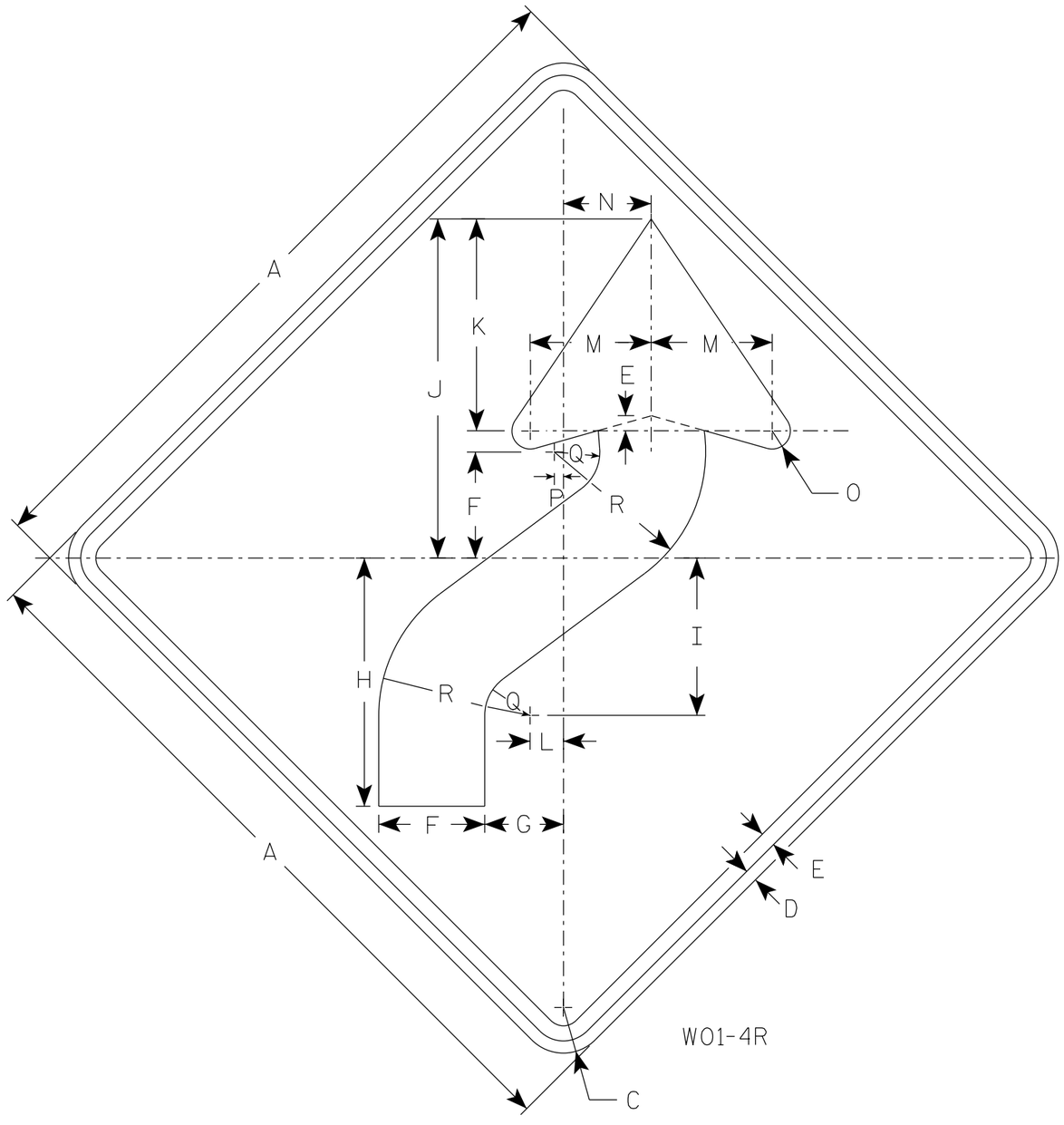
STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/11/2024 PLATE NO. W21-5.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 736 | E



W01-4R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

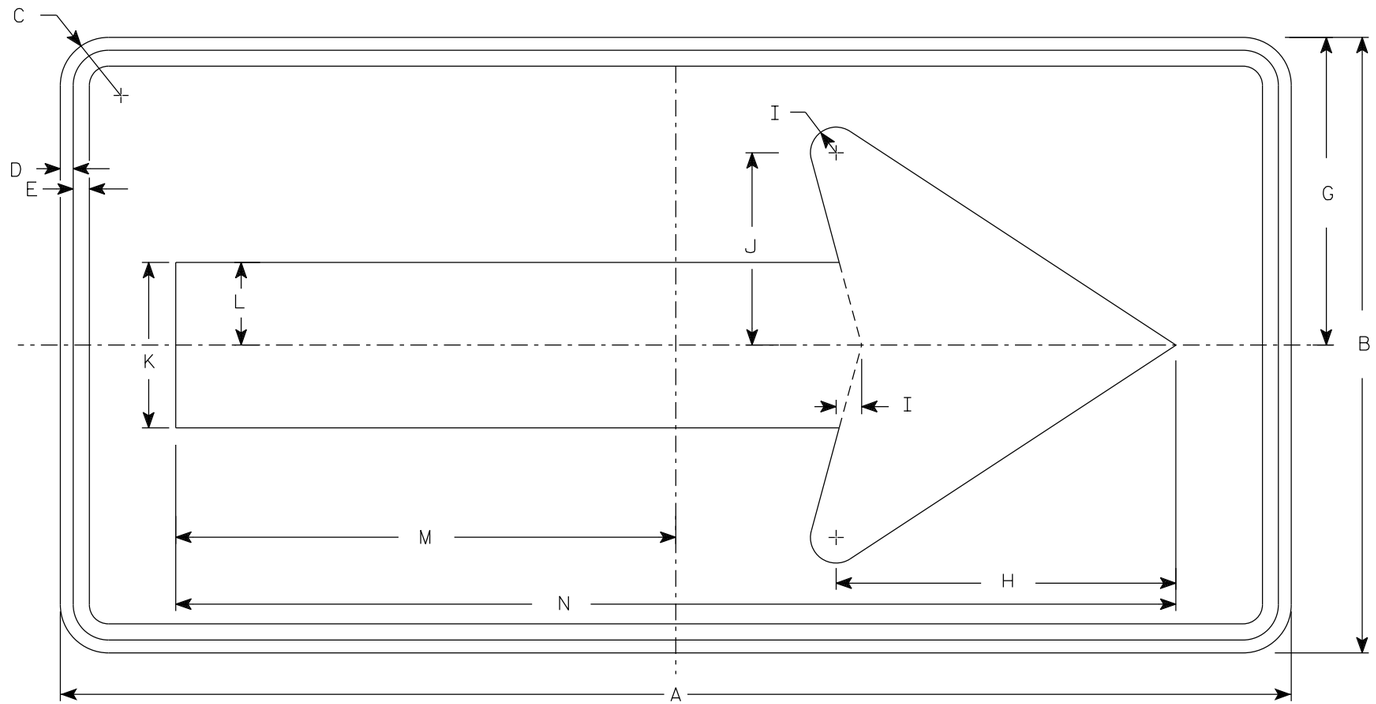
STANDARD SIGN
W01-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 737 | E



WO1-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

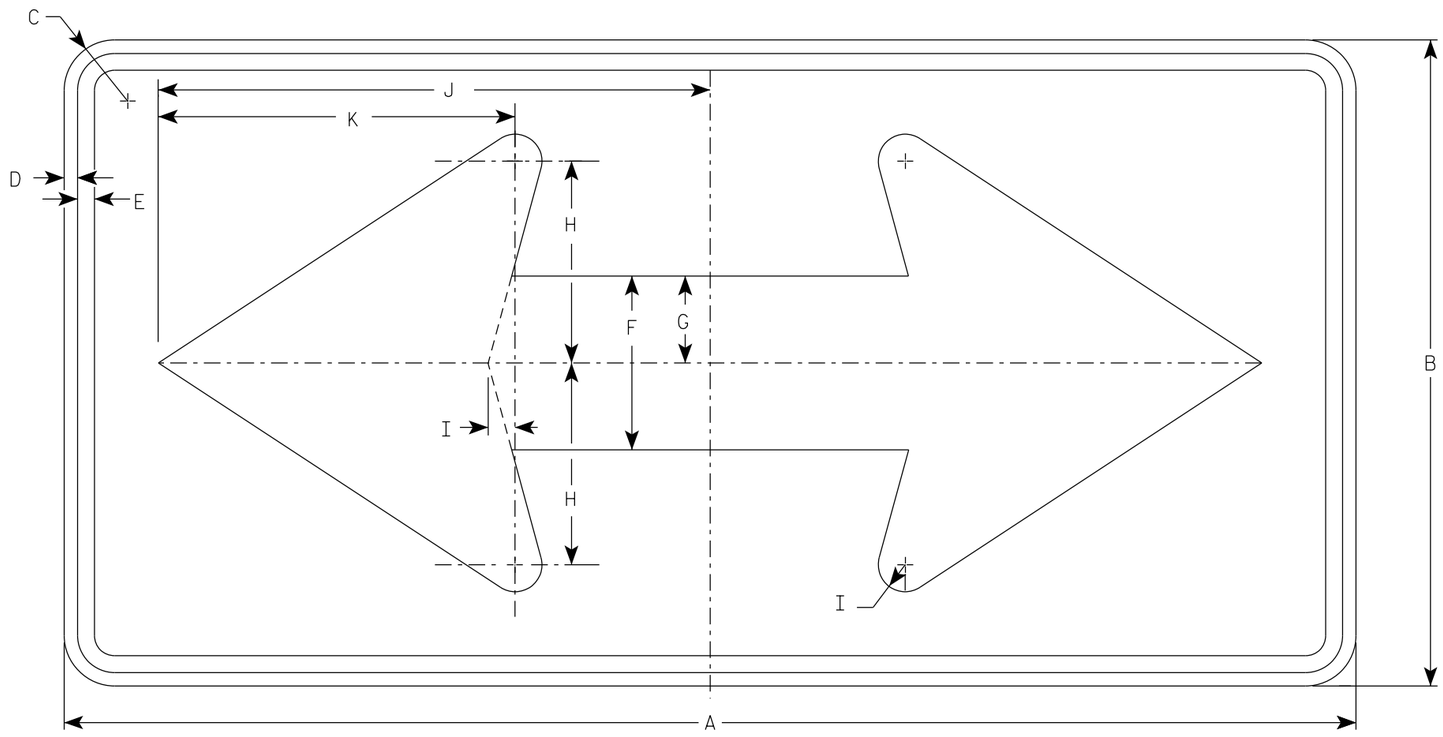
STANDARD SIGN
WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-6.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W01-7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5

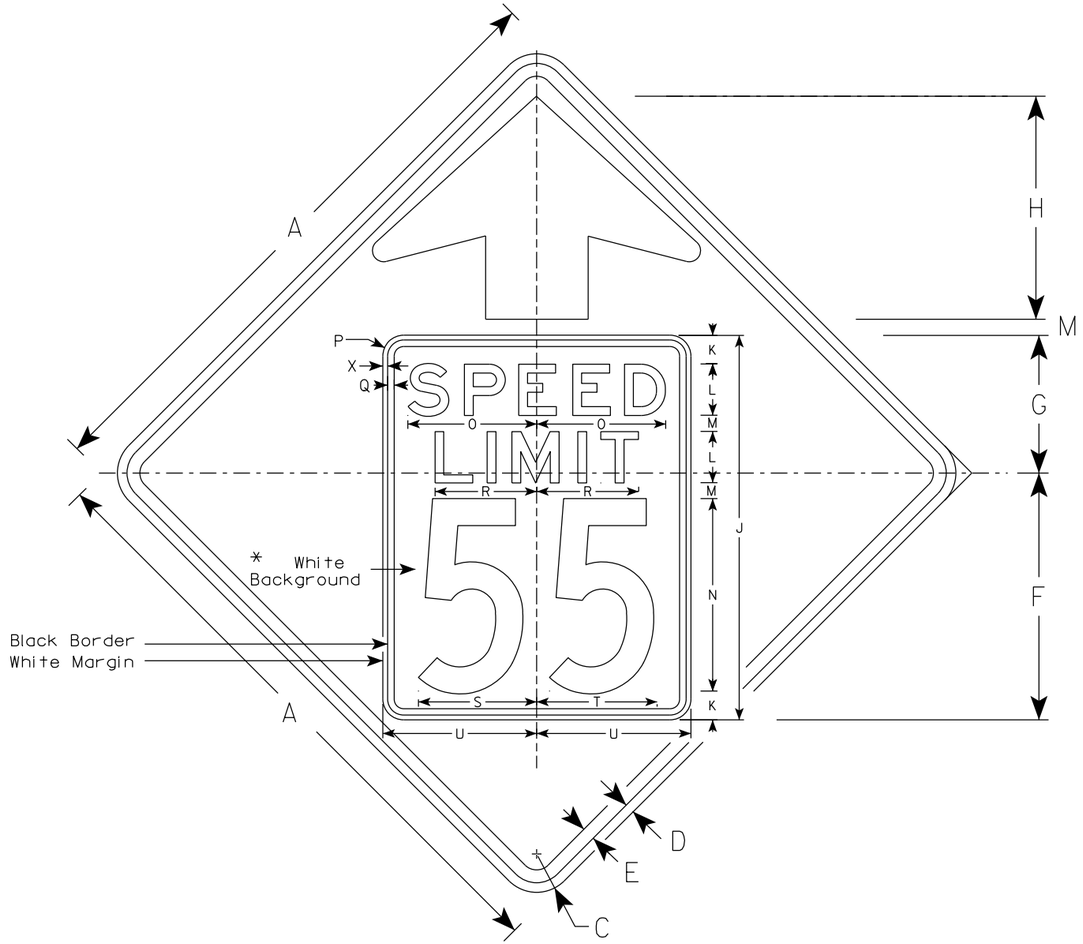
STANDARD SIGN
W01-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-7.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 739 | E

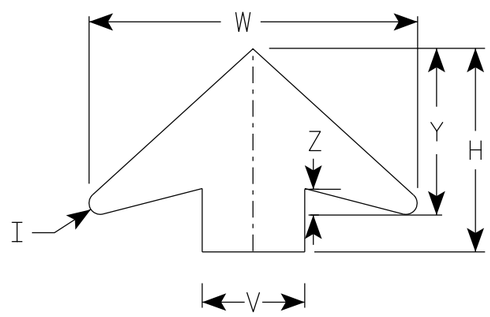


W03-5

NOTES

1. Sign is Type II - Type F Reflective
2. Color: *
   Background - ORANGE*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



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	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2S	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
2M	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
3	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
4	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W03-5

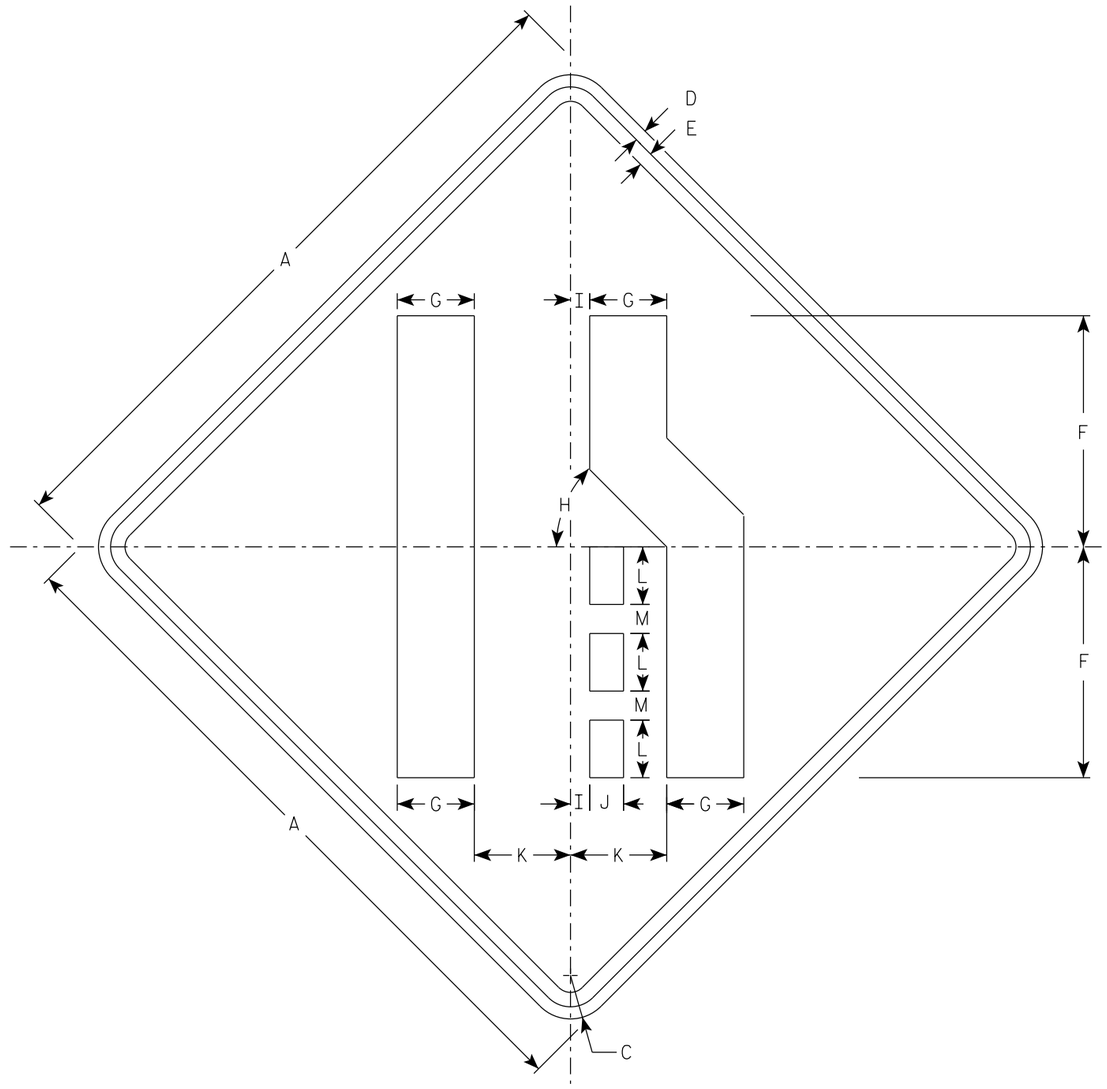
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W03-5.2

PROJECT NO:

SHEET NO: 740 E



W04-2R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

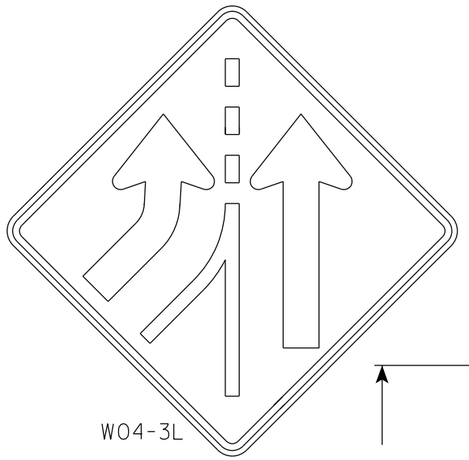
WISCONSIN DEPT OF TRANSPORTATION

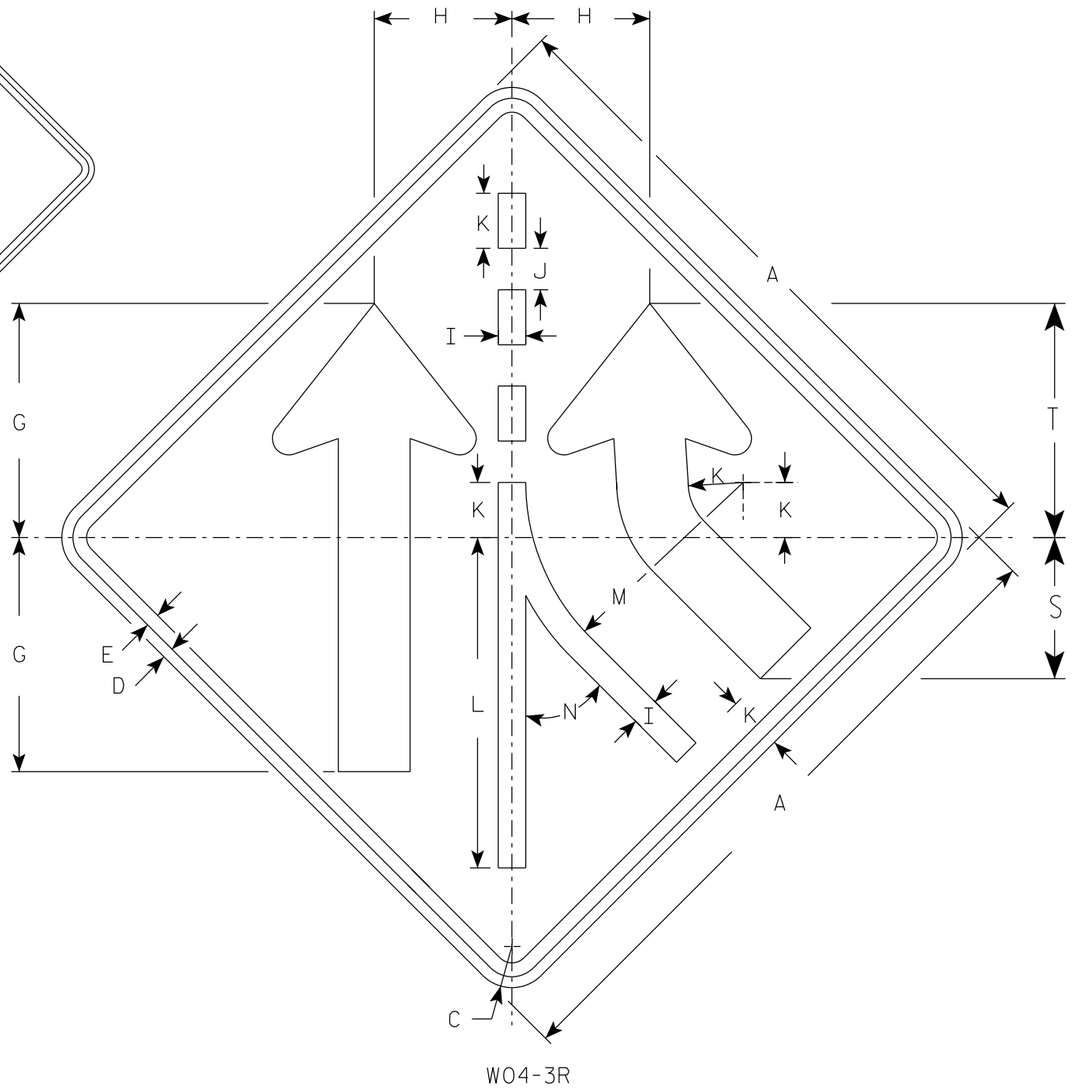
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/25/2024 PLATE NO. W04-2.2

PROJECT NO:

SHEET NO: 741 E

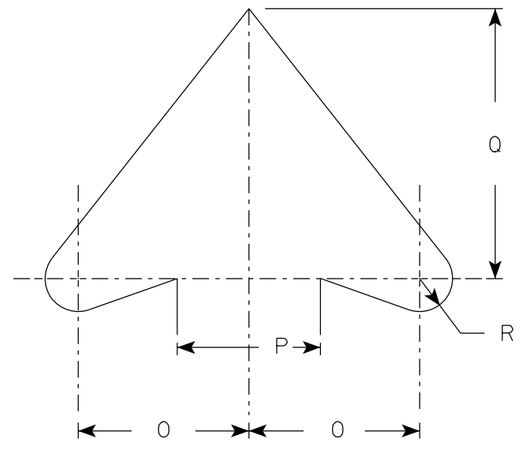




W04-3R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-3L is the same as W04-3R except the arrow is reversed along the vertical centerline.



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	36		2 1/4	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 7/8	45°	4 5/8	4	7 3/8	7/8	7 3/4	12 3/4							9.0
2S	48		3	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
2M	48		3	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
3	48		3	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
4	48		3	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
5	48		3	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0

STANDARD SIGN
W04-3

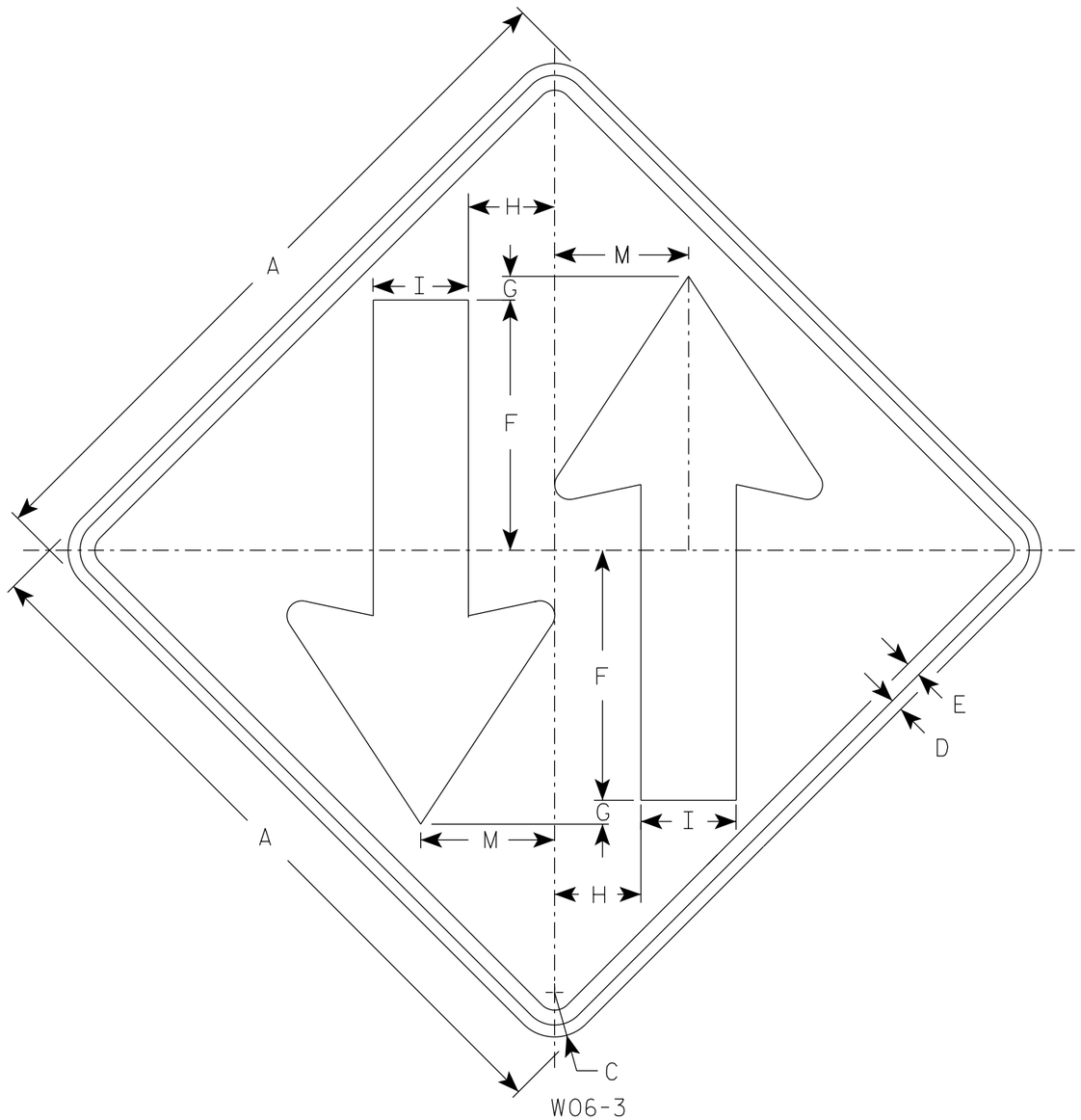
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/25/2024 PLATE NO. W04-3.2

PROJECT NO:

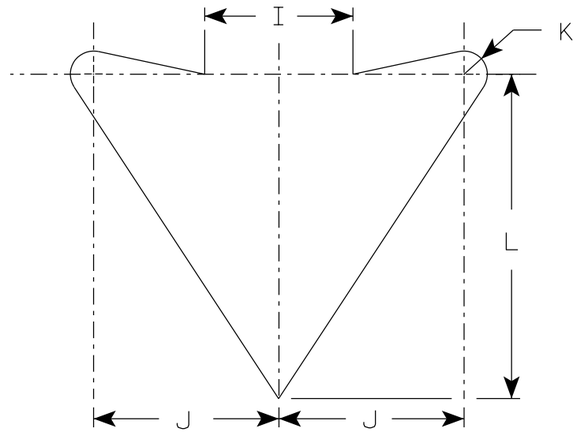
SHEET NO: 742 E



W06-3

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	36		2 1/4	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

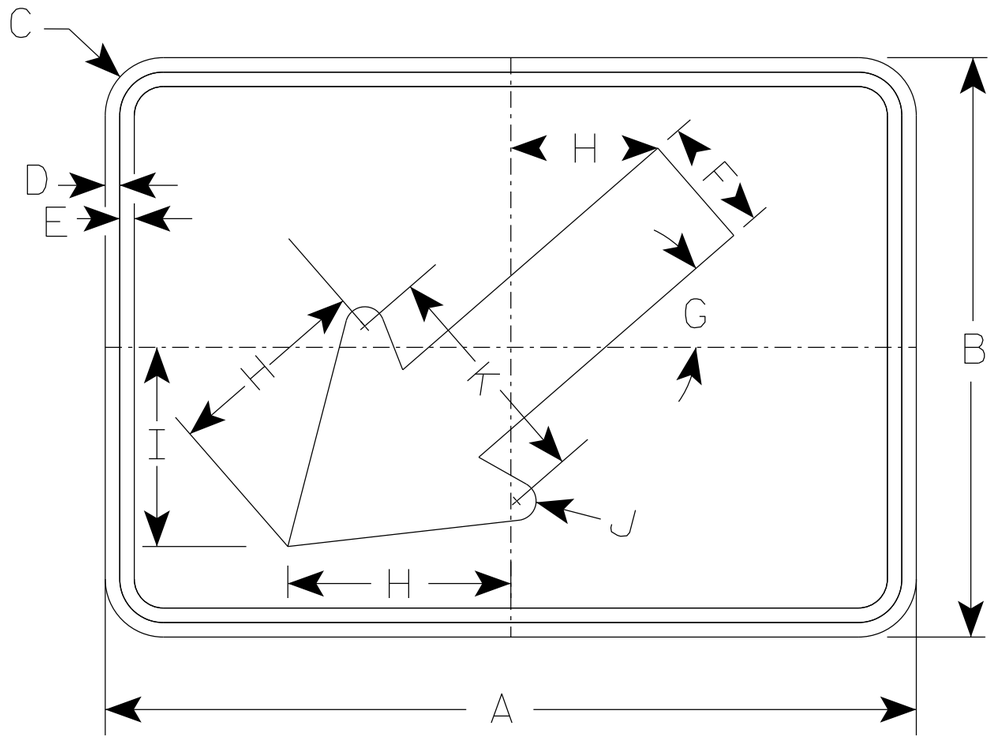
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/30/2024 PLATE NO. W06-3.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 743 | E



W016-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. W016-7R is the same as W016-7L except the arrow is reversed along the vertical centerline.

* For 36" x 36" Warning Signs, use 30" x 21" W016-7L signs.
* For 48" x 48" Warning Signs, use 42" x 24" W016-7L 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	21	15	1 1/2	3/8	3/8	3	41°	5 1/4	5 1/8	1/2	6																2.19
*	2M	30	21	1 1/2	3/8	1/2	4 1/2	41°	8 5/8	7 3/4	5/8	9 1/4																4.38
*	3	30	21	1 1/2	3/8	1/2	4 1/2	41°	8 5/8	7 3/4	5/8	9 1/4																4.38
*	4	42	24	1 7/8	1/2	5/8	6	41°	10 1/4	9 1/8	1	12																7.0
	5																											

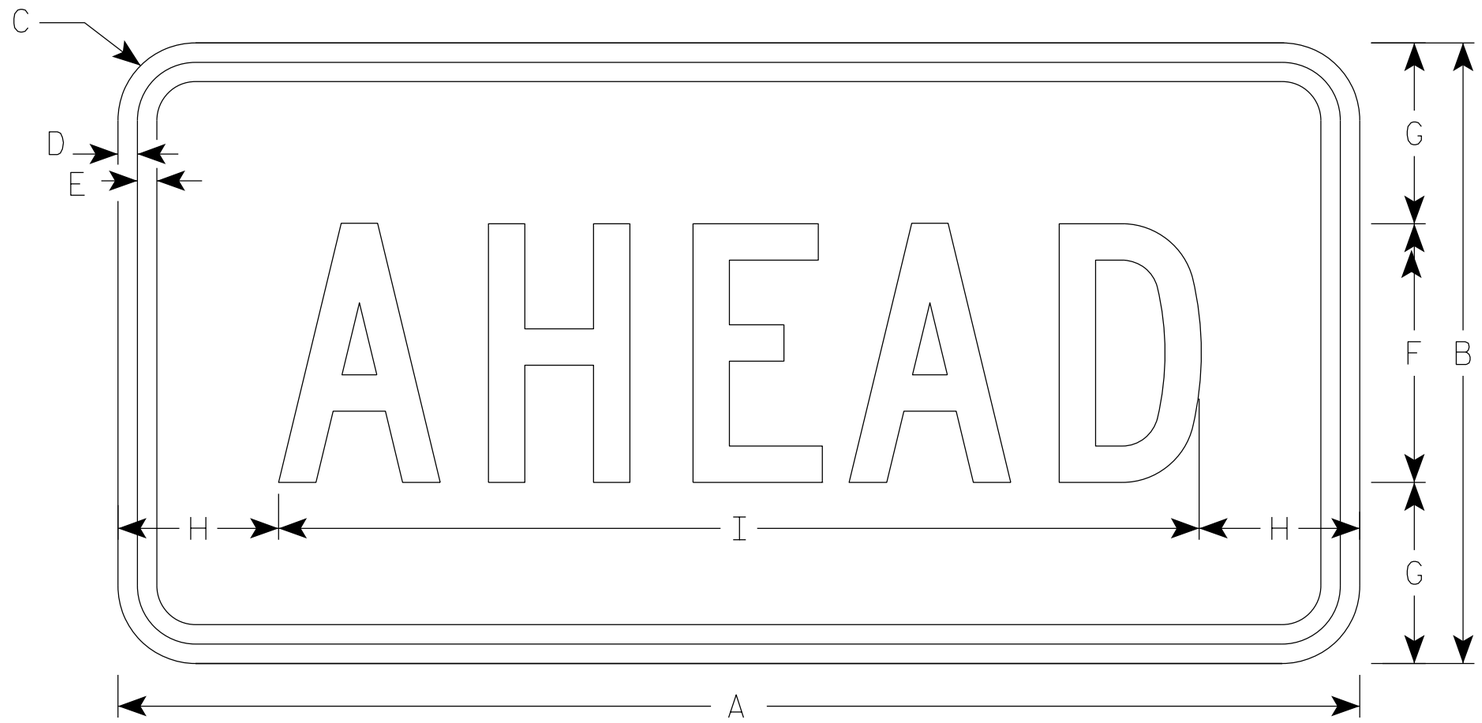
STANDARD SIGN
W016-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/30/26 PLATE NO. W016-7.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 744 E



W016-9P

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2S	48	24	1 7/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
2M	48	24	1 7/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
3	48	24	1 7/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
4	48	24	1 7/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5	48	24	1 7/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0

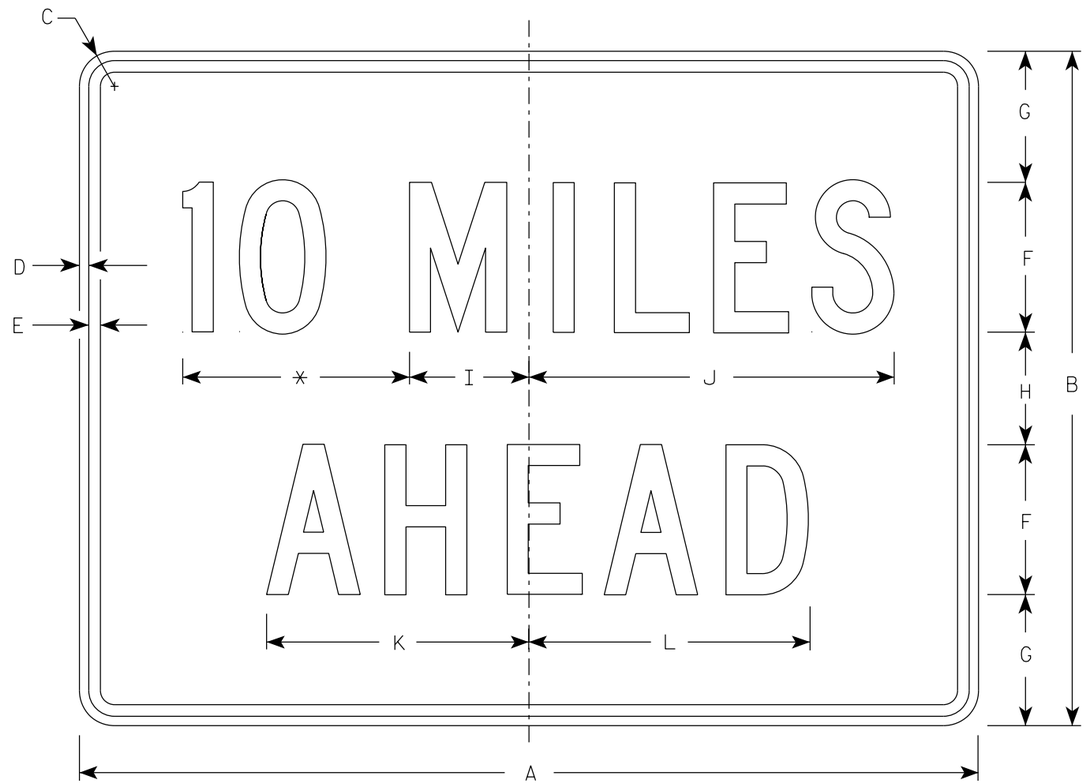
STANDARD SIGN
W016-9P

WISCONSIN DEPT OF TRANSPORTATION

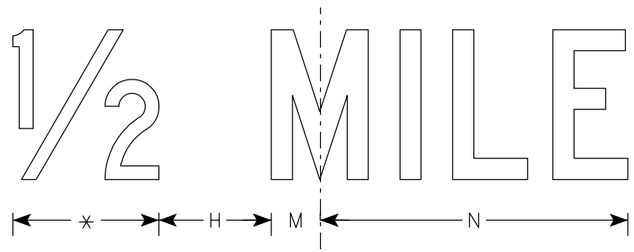
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W016-9P.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 745 | E



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 1/2	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	2 1/4	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	2 1/4	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	2 1/4	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	2 1/4	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	2 1/4	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

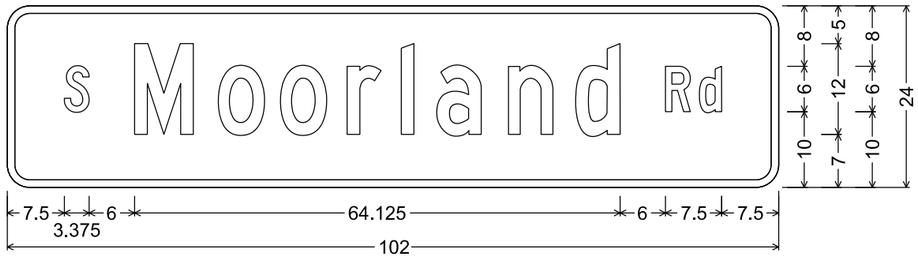
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W057-52.3

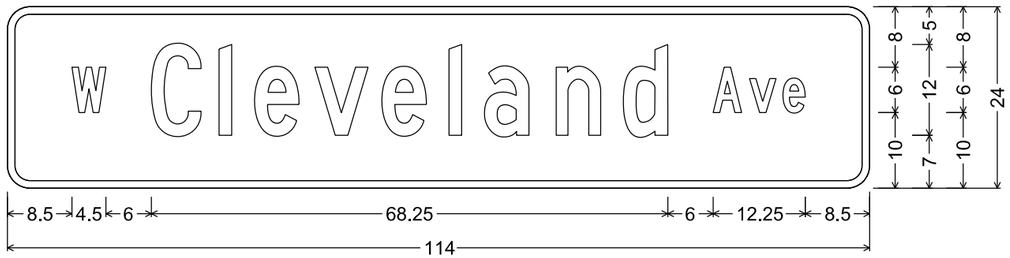
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 746 E

NOTES

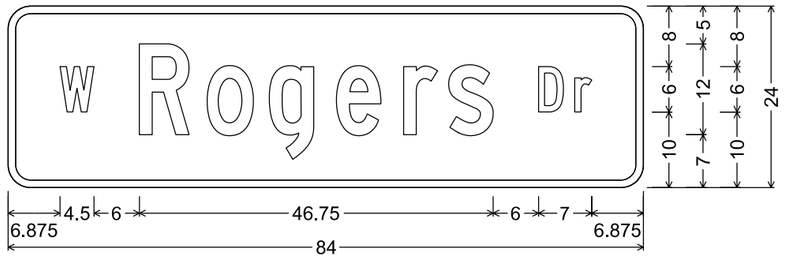
1. Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C



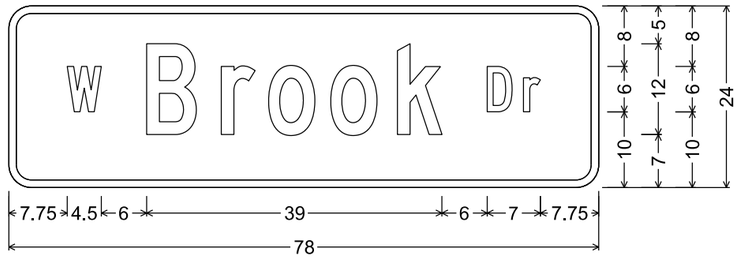
M1-94H; 3.000" Radius, 1.000" Border



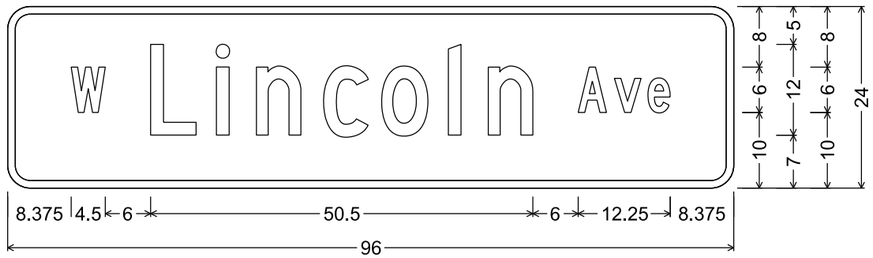
M1-94H; 3.000" Radius, 1.000" Border



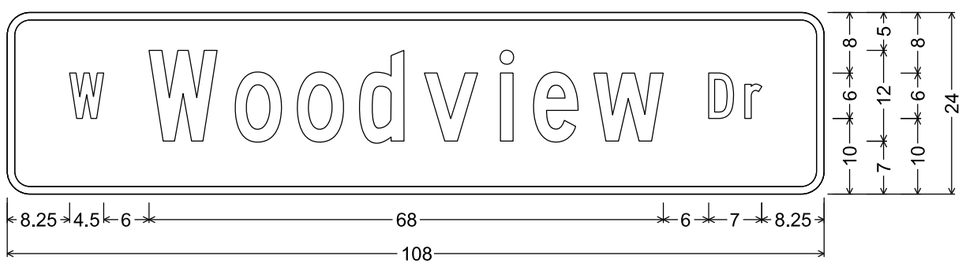
M1-94H; 3.000" Radius, 1.000" Border



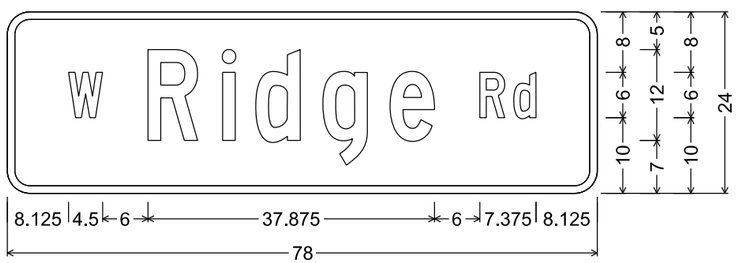
M1-94H; 3.000" Radius, 1.000" Border



M1-94H; 3.000" Radius, 1.000" Border



M1-94H; 3.000" Radius, 1.000" Border



M1-94H; 3.000" Radius, 1.000" Border

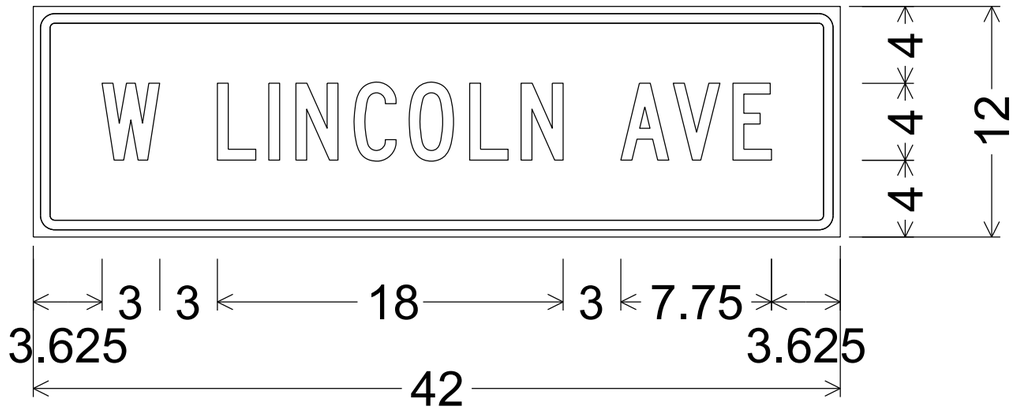
7

7

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET NO: 747	E

NOTES

1. Fixed Message Sign Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C

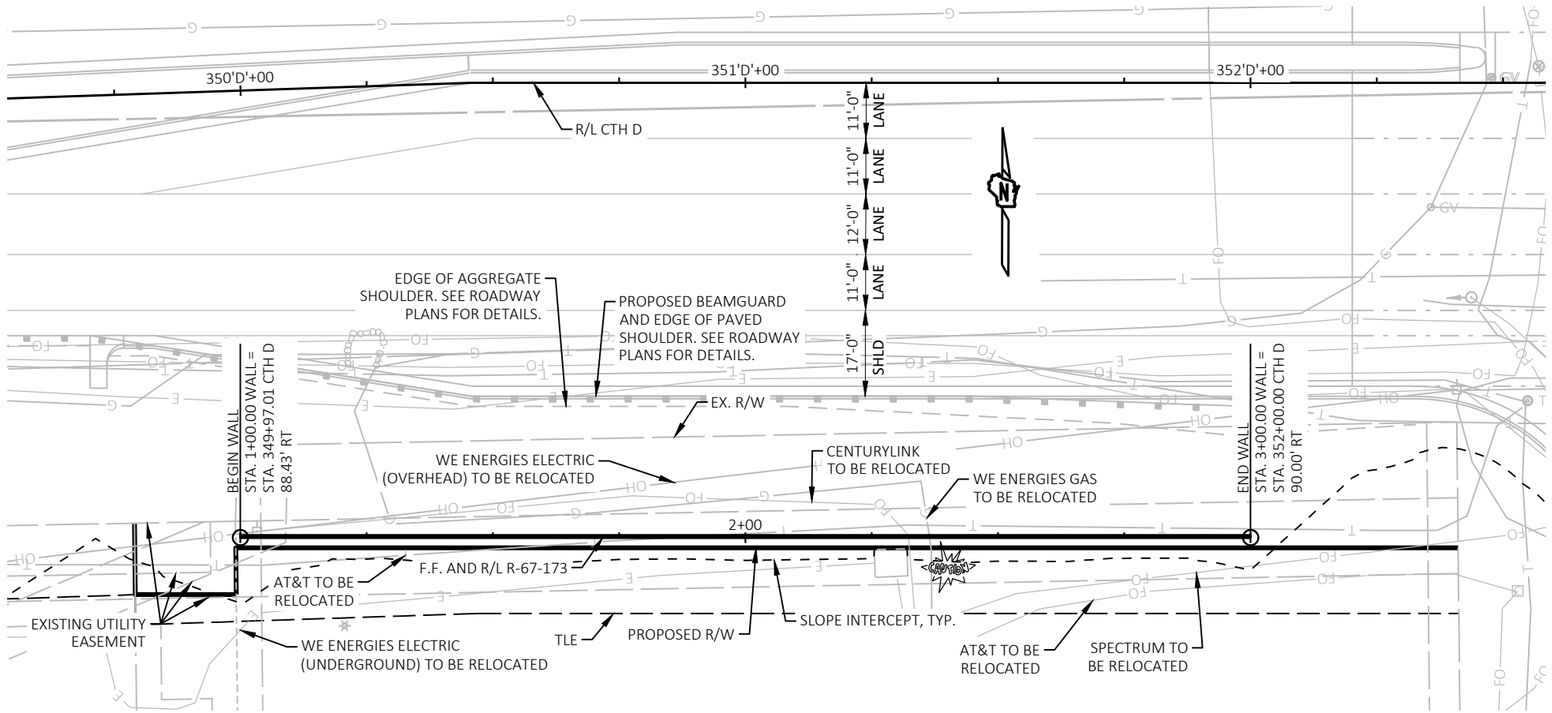


1.125" Radius, 0.500" Border, 0.375" Indent

7

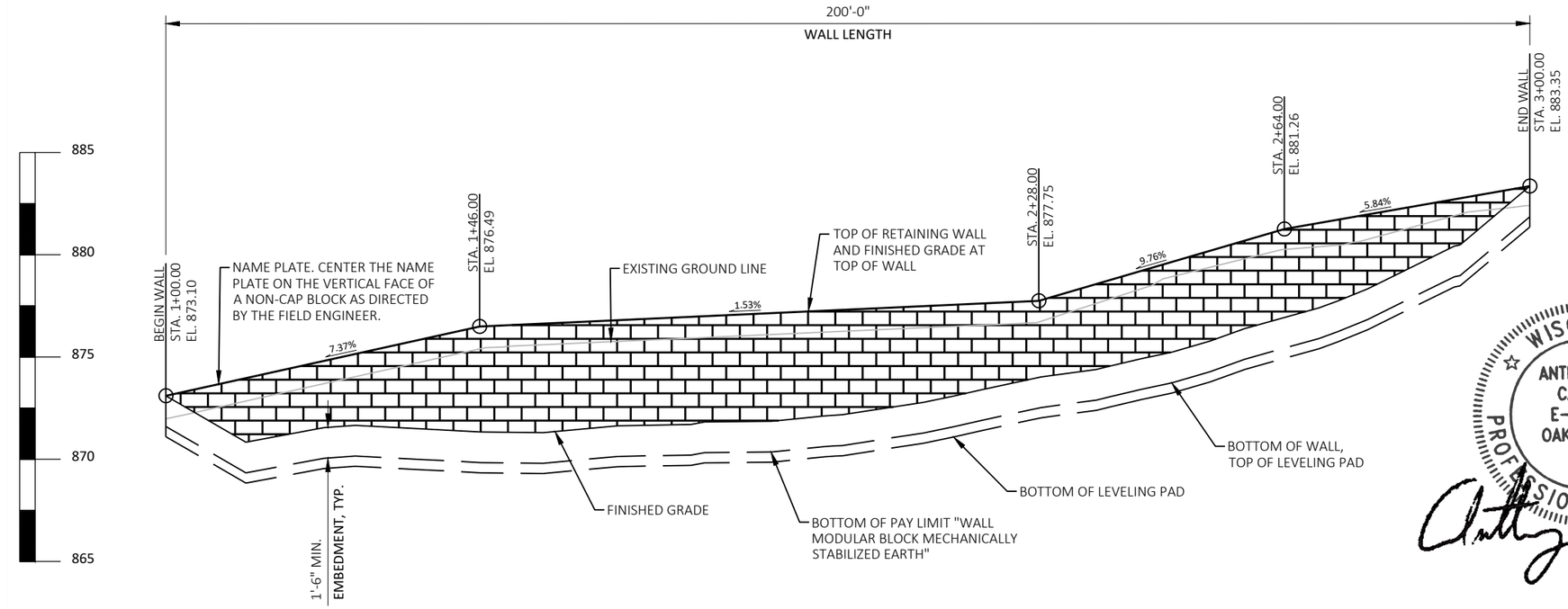
7

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	TEMPORARY SIGNING	SHEET NO: 748	E



PLAN

(WALL MODULAR BLOCK MSE)



ELEVATION

(LOOKING NORTH AT F.F. OF WALL)

STATE PROJECT NUMBER

2722-04-71

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-67-173"

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE THE WALL LOCATION, LENGTH, HEIGHT AND DETAILS COMMON TO THE WALL SYSTEM. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

LIVE LOAD:
STRUCTURE IS DESIGNED FOR A LIVE LOAD SURCHARGE OF 100 PSF.

TRAFFIC DATA

CTH D
ADT = (2026) 15,600
ADT = (2046) 19,000
R.D.S. = 40 MPH

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:

TONY CASTLE (EMCS) 414-935-5740
AARON BONK (WISDOT BOS) 608-261-0261

WISCONSIN
ANTHONY J. CASTLE
E-43345
OAK CREEK
WI
PROFESSIONAL ENGINEER
4/29/2026

NO.	DATE	REVISION	BY

emcs
Transforming Challenges into Solutions

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED JLR 05/11/26
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-67-173

MODULAR BLOCK MSE WALL ALONG CTH D

COUNTY	CITY
WAUKESHA	NEW BERLIN

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATION

DESIGNED BY	DESIGN CK'D	DRAWN BY	PLANS CK'D
LWB	AJC	LWB	AJC

GENERAL PLAN & ELEVATION

SHEET 1 OF 3
749

I.D. DATE:

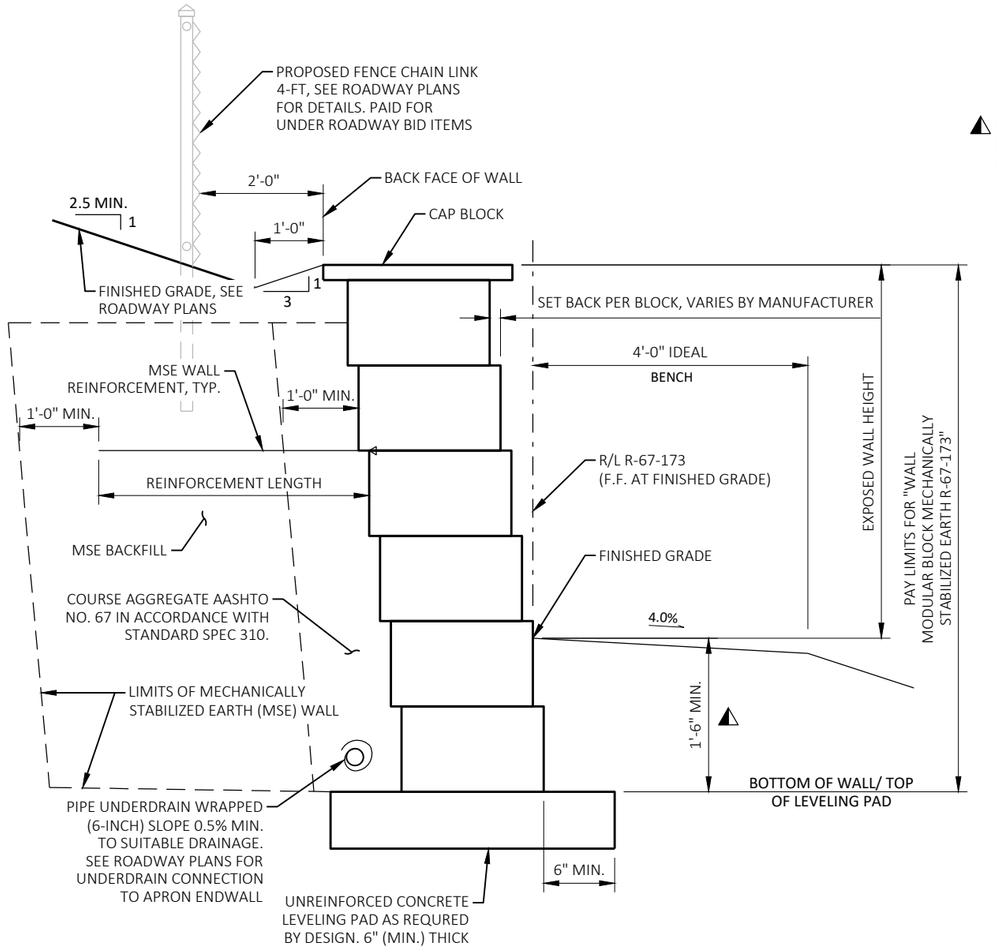
Y:\57xx\5723_DS24.CTHO.WKS\CADDS\27220471\sheets\struct\080101_gpe.dwg, 4/29/2026 8:59:12 AM, WisDOT PDF.pc3

STATE PROJECT NUMBER

2722-04-71

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	TOTAL
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	222
SPV.0165.XXX	WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-67-173	SF	1040
	NON-BID ITEMS		
	NAMEPLATE	EACH	



TYPICAL SECTION

(MSE WALL WITH MODULAR BLOCK FACING)
(LOOKING EAST)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE PLAN QUANTITY FOR THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-67-173" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTES. ALL STATIONS AND ALL ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCE TO THE NAVD 88 (2012) DATUMN.

ALL STATIONS AND DIMENSIONS ALONG THE R/L FOR R-67-173 ARE ALONG THE FRONT FACE OF WALL UNLESS NOTED OTHERWISE.

THE COST OF FURNISHING AND PLACING THE LEVELING PAD CONCRETE UNDER THE MSE WALL BLOCKS IS INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-67-173".

SUPPLY AND INSTALL A NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION. WORK TO BE INCLUDED UNDER BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH"

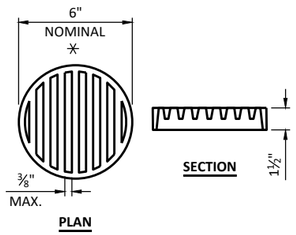
THE BACKFILL 1'-0" BEHIND THE WALL SHALL BE COARSE NO. 67. SEE "TYPICAL SECTION".

CONTRACTOR SHALL COORDINATE BEAM GUARD AND CHAIN LINK FENCE POST SPACING WITH MSE WALL MANUFACTURER SUCH THAT THERE IS NO CONFLICT WITH REINFORCED WALL STRAPS.

⚠ MINIMUM EMBEDMENT BASED ON SITE SPECIFIC PARAMETERS (1'-6" MINIMUM FOR ALL WALLS ON LEVEL GROUND). FIELD EMBEDMENTS SHALL MEET OR EXCEED THE MINIMUM EMBEDMENTS. FIELD EMBEDMENTS BELOW MINIMUM EMBEDMENT SHALL NOT BE INCLUDED IN THE PAY LIMITS

GEOMETRY TABLE

WALL STATION	CTH D STATION	OFFSET TO F.F. OF WALL	TOP OF WALL EL.	FINISHED GRADE EL.
1+00.00	349+97.01	88.43	873.10	873.10
1+46.00	350+42.99	89.97	876.49	871.05
2+28.00	351+28.00	90.00	877.75	873.92
2+64.00	351+64.00	90.00	881.26	876.93
3+00.00	352+00.00	90.00	883.35	883.35



RODENT SHIELD DETAIL

⚹ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS	
WALL HEIGHT (FEET)	7.0
EXPOSED WALL HEIGHT (FEET)	5.5
MINIMUM LENGTH OF REINFORCEMENT (FEET)	8
WALL STATION	350+99
BORING USED	B-2
CAPACITY TO DEMAND RATIO (CDR)	
SLIDING (CDR > 1.0)	1.7
ECCENTRICITY (CDR > 1.0)	4.0
OVERALL STABILITY (CDR > 1.0)	2.1
BEARING RESISTANCE (CDR > 1.0)	5.1
FACTORED BEARING RESISTANCE (PSF)	10,270

THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS

THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED ON OVERALL STABILITY PERFORMED BY THE WALL DESIGNER. COMPOUND STABILITY IS THE CONTRACTORS RESPONSIBILITY.

SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	120	30	0
GRANULAR BACKFILL BEHIND THE REINFORCING ZONE*	120	28	0
EXISTING FILL, EL. 886.70 - EL. 880.70	115	26	0
LEAN CLAY, EL. 880.70 - EL. 866.70	130	27	3,000
LEAN CLAY, EL. 866.70 - EL. 846.70	130	27	2,000

*DESIGN WALL FOR THESE VALUES

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-67-173

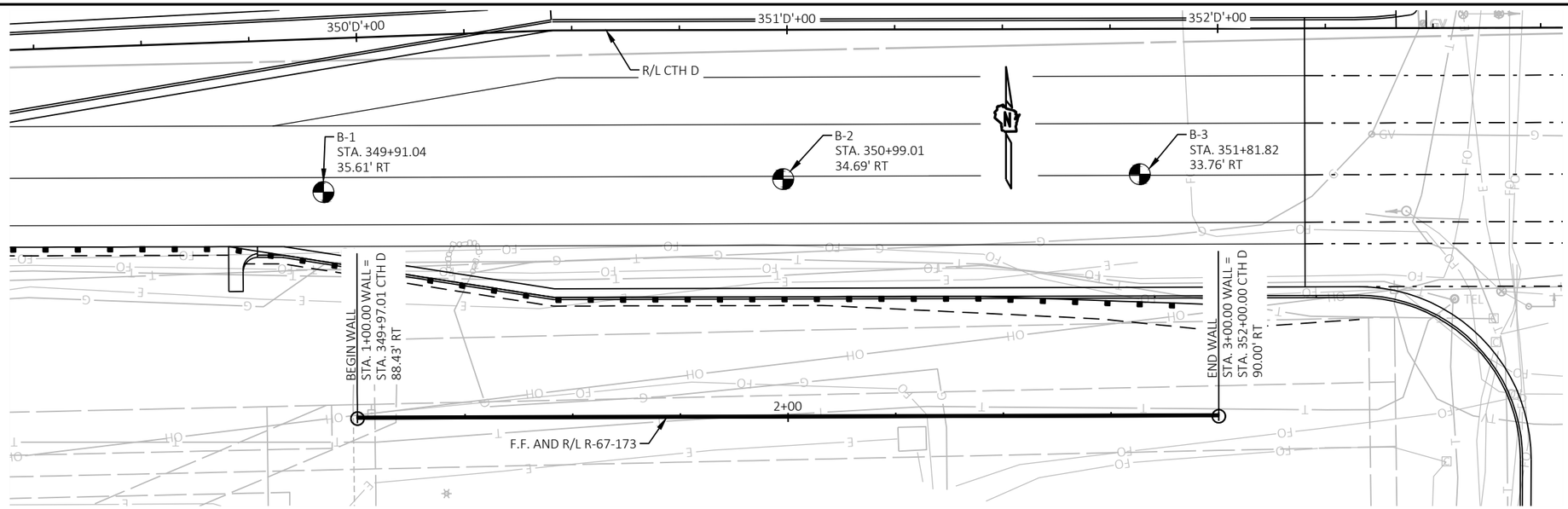
DRAWN BY LWB | PLANS CK'D AJC

TYPICAL SECTION & QUANTITIES

SHEET 2 OF 3
750

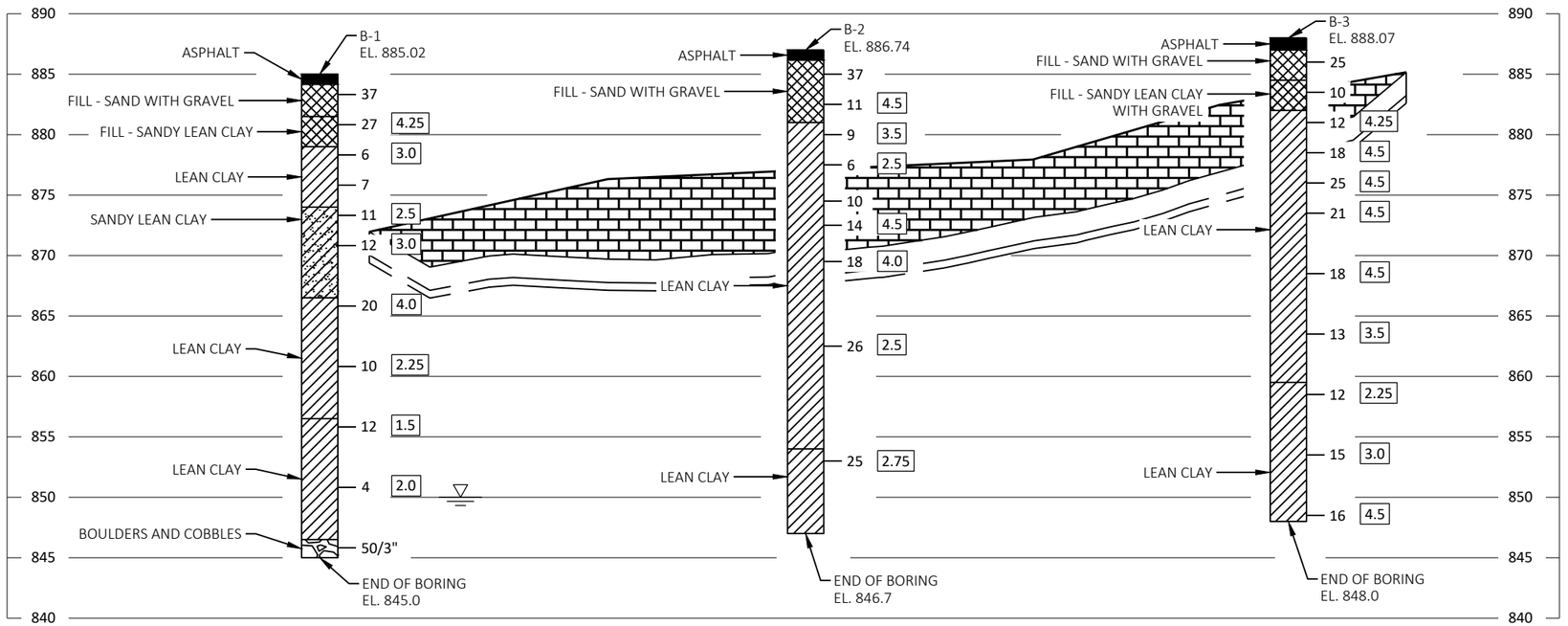
8

8



PLAN
(WALL MODULAR BLOCK MSE)

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
B-1	6/17/2024	155266.70	715892.00
B-2	6/17/2024	155269.72	715998.73
B-3	6/17/2024	155270.87	716081.54
BORINGS AND REPORT COMPLETED BY: TERRACON			
4900 S PENNSYLVANIA AVE, STE 100, CUDAHY, WI			
ALL COORDINATES REFERENCED TO WCCS NAD 83(2011)			



ELEVATION
(LOOKING NORTH)

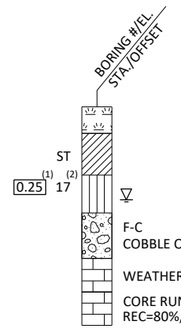
STATE PROJECT NUMBER

2722-04-71

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT
CONCRETE, FILL, GRAVEL
SAND, CLAY, SILT
BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN)
SHALE, SANDSTONE, IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-67-173

DRAWN BY LWB | PLANS CK'D AJC

SUBSURFACE EXPLORATION

SHEET 3 OF 3
751

8

8

DIVISION 1 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
151+15.81	0.00	0.00	0.00	0	0	0	0	0
151+41.27	25.46	56.83	0.00	27	0	27	0	27
151+50.00	8.73	59.23	0.00	19	0	46	0	46
151+91.83	41.83	55.71	0.00	89	0	135	0	135
152+00.00	8.17	56.00	0.00	17	0	152	0	152
152+50.00	50.00	60.06	0.00	107	0	259	0	259
152+75.00	25.00	58.43	0.00	55	0	314	0	314
153+00.00	25.00	52.56	0.00	51	0	365	0	365
153+50.00	50.00	51.08	1.08	96	1	461	1	460
154+00.00	50.00	45.63	1.78	90	3	551	5	546
154+50.00	50.00	47.55	0.84	86	2	637	7	630
155+00.00	50.00	59.52	1.07	99	2	736	10	726
155+50.00	50.00	73.34	0.04	123	1	859	11	848
156+00.00	50.00	74.06	0.13	136	0	995	11	984
156+50.00	50.00	69.18	0.33	133	0	1128	11	1117
157+00.00	50.00	67.16	0.29	126	1	1254	12	1242
157+15.88	15.88	65.09	0.49	39	0	1293	12	1281
157+50.00	34.12	65.01	0.25	82	0	1375	12	1363
158+00.00	50.00	75.68	0.69	130	1	1505	13	1492
158+50.00	50.00	132.74	0.00	193	1	1698	14	1684
159+00.00	50.00	173.19	0.00	283	0	1981	14	1967
159+08.03	8.03	189.44	0.00	54	0	2035	14	2021
159+50.00	41.97	99.67	0.20	225	0	2260	14	2246
160+00.00	50.00	56.38	0.57	144	1	2404	16	2388
160+50.00	50.00	68.09	1.11	115	2	2519	18	2501
161+00.00	50.00	64.93	9.25	123	10	2642	30	2612
161+25.00	25.00	68.40	5.24	62	7	2704	38	2666
161+50.00	25.00	71.33	2.90	65	4	2769	43	2726
162+00.00	50.00	74.56	1.03	135	4	2904	48	2856
162+50.00	50.00	72.20	1.18	136	2	3040	50	2990

DIVISION 1 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
163+00.00	50.00	79.15	0.40	140	1	3180	52	3128
163+50.00	50.00	77.62	3.71	145	4	3325	56	3269
163+70.94	20.94	64.95	0.00	55	1	3380	58	3322
164+00.00	29.06	61.34	0.00	68	0	3448	58	3390
164+50.00	50.00	58.31	1.10	111	1	3559	59	3500
165+00.00	50.00	52.55	13.18	103	13	3662	74	3588
165+50.00	50.00	55.29	2.60	100	15	3762	92	3670
165+81.02	31.02	59.56	3.42	66	3	3828	96	3732
166+00.00	18.98	59.71	3.56	42	2	3870	98	3772
166+50.00	50.00	71.01	2.82	121	6	3991	106	3885
167+00.00	50.00	58.57	2.64	120	5	4111	112	3999
167+50.00	50.00	53.79	2.48	104	5	4215	118	4097
168+00.00	50.00	64.56	0.55	110	3	4325	121	4204
168+34.24	34.24	59.92	8.15	79	6	4404	128	4276
168+50.00	15.76	61.28	7.13	35	4	4439	133	4306
169+00.00	50.00	58.58	0.84	111	7	4550	142	4408
169+50.00	50.00	56.27	1.58	106	2	4656	144	4512
170+00.00	50.00	61.63	1.07	109	2	4765	146	4619
170+08.95	8.95	62.93	0.91	21	0	4786	146	4640
170+10.75	1.80	63.11	0.88	4	0	4790	146	4644
170+50.00	39.25	69.66	0.75	97	1	4887	148	4739
171+00.00	50.00	67.91	0.66	127	1	5014	149	4865
171+50.00	50.00	62.21	0.83	120	1	5134	150	4984
172+00.00	50.00	52.86	5.99	107	6	5241	157	5084
172+13.24	13.24	53.09	6.12	26	3	5267	161	5106
172+50.00	36.76	54.38	6.49	73	9	5340	172	5168
			TOTAL	5,340	143			

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9

PROJECT NO: 2722-04-71 | HWY: CTH O | COUNTY: WAUKESHA | EARTHWORK DATA | SHEET NO: 752 | E

DIVISION 1 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
173+00.00	0.00	56.12	4.23	0	0	0	0	0
173+50.00	50.00	53.57	3.46	102	7	102	8	94
174+00.00	50.00	56.11	0.44	102	4	204	13	191
174+50.00	50.00	64.73	0.21	112	1	316	14	302
175+00.00	50.00	67.93	0.04	123	0	439	14	425
175+28.30	28.30	69.69	0.00	72	0	511	14	497
175+50.00	21.70	67.68	0.29	55	0	566	14	552
176+00.00	50.00	91.94	12.58	148	12	714	29	685
176+26.24	26.24	121.26	0.01	104	6	818	36	782
176+50.00	23.76	95.47	21.94	95	10	913	48	865
176+56.01	6.01	98.75	3.81	22	3	935	52	883
177+00.00	43.99	70.10	0.35	138	3	1073	55	1018
177+50.00	50.00	66.65	0.36	127	1	1200	56	1144
178+00.00	50.00	67.07	0.13	124	0	1324	56	1268
178+50.00	50.00	73.18	0.00	130	0	1454	56	1398
178+60.38	10.38	72.84	0.00	28	0	1482	56	1426
179+00.00	39.62	67.16	0.00	103	0	1585	56	1529
179+50.00	50.00	67.30	0.04	125	0	1710	56	1654
180+00.00	50.00	66.78	0.49	124	0	1834	56	1778
180+12.73	12.73	66.46	1.01	31	0	1865	56	1809
180+50.00	37.27	65.89	1.85	91	2	1956	59	1897
180+99.36	49.36	61.69	2.97	117	4	2073	64	2009
181+00.00	0.64	61.61	2.98	1	0	2074	64	2010
181+50.00	50.00	54.55	9.77	108	12	2182	78	2104
181+90.00	40.00	49.52	12.22	77	16	2259	97	2162
182+00.00	10.00	50.78	12.99	19	5	2278	103	2175
182+50.00	50.00	56.26	6.96	99	18	2377	125	2252
183+00.00	50.00	66.45	1.42	114	8	2491	134	2357
183+50.00	50.00	77.89	0.32	134	2	2625	137	2488
184+00.00	50.00	71.05	0.55	138	1	2763	138	2625
184+50.00	50.00	60.30	3.14	122	3	2885	142	2743
184+68.54	18.54	60.21	1.15	41	1	2926	143	2783
185+00.00	31.46	74.31	0.42	78	1	3004	144	2860
185+50.00	50.00	104.09	0.00	165	0	3169	144	3025
185+66.30	16.30	90.95	0.00	59	0	3228	144	3084

DIVISION 1 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
186+00.00	33.70	120.69	6.61	132	4	3360	149	3211
186+50.00	50.00	56.54	0.48	164	7	3524	157	3367
187+00.00	50.00	56.03	0.02	104	0	3628	157	3471
187+50.00	50.00	65.09	0.00	112	0	3740	157	3583
188+00.00	50.00	85.93	0.00	140	0	3880	157	3723
188+50.00	50.00	108.89	0.00	180	0	4060	157	3903
189+00.00	50.00	91.57	0.00	186	0	4246	157	4089
189+50.00	50.00	75.61	3.66	155	3	4401	161	4240
190+00.00	50.00	71.14	3.33	136	6	4537	168	4369
190+50.00	50.00	69.27	0.00	130	3	4667	172	4495
191+00.00	50.00	66.43	0.15	126	0	4793	172	4621
191+50.00	50.00	64.89	0.30	122	0	4915	172	4743
192+00.00	50.00	66.19	5.09	121	5	5036	178	4858
192+20.86	20.86	67.48	5.54	52	4	5088	182	4906
192+50.00	29.14	66.44	4.55	72	5	5160	188	4972
192+86.23	36.23	63.02	0.39	87	3	5247	192	5055
193+00.00	13.77	61.48	2.12	32	1	5279	193	5086
193+50.00	50.00	58.27	5.68	111	7	5390	202	5188
194+00.00	50.00	57.40	6.05	107	11	5497	215	5282
194+50.00	50.00	53.92	4.68	103	10	5600	227	5373
195+00.00	50.00	45.88	5.66	92	10	5692	239	5453
195+50.00	50.00	39.24	9.20	79	14	5771	256	5515
196+00.00	50.00	37.43	4.49	71	13	5842	271	5571
196+50.00	50.00	39.99	2.26	72	6	5914	278	5636
197+00.00	50.00	42.07	2.70	76	5	5990	284	5706
197+50.00	50.00	62.23	11.95	97	14	6087	301	5786
198+00.00	50.00	98.57	0.00	149	11	6236	314	5922
198+09.75	9.75	94.79	0.00	35	0	6271	314	5957
198+11.75	2.00	94.59	0.00	7	0	6278	314	5964
198+50.00	38.25	96.57	0.00	135	0	6413	314	6099
199+00.00	50.00	70.38	0.00	155	0	6568	314	6254
199+50.00	50.00	80.67	0.01	140	0	6708	314	6394
200+00.00	50.00	85.78	0.21	154	0	6862	314	6548
200+50.00	50.00	96.05	0.00	168	0	7030	314	6716
201+00.00	50.00	81.81	0.02	165	0	7195	314	6881
201+50.00	50.00	71.42	0.21	142	0	7337	314	7023
202+00.00	50.00	66.16	0.00	127	0	7464	314	7150
202+50.00	50.00	68.61	0.00	125	0	7589	314	7275
			TOTAL	7,589	262			

DIVISION 1 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
203+00.00	0.00	70.66	0.00	0	0	0	0	0
203+50.00	50.00	67.45	0.04	128	0	128	0	128
204+00.00	50.00	75.12	0.07	132	0	260	0	260
204+50.00	50.00	57.65	0.54	123	1	383	1	382
205+00.00	50.00	60.47	0.23	109	1	492	2	490
205+50.00	50.00	60.56	0.01	112	0	604	2	602
206+00.00	50.00	82.98	0.01	133	0	737	2	735
206+37.94	37.94	147.98	0.02	162	0	899	2	897
206+42.43	4.49	142.75	0.00	24	0	923	2	921
206+50.00	7.57	138.88	0.00	39	0	962	2	960
207+00.00	50.00	80.76	0.00	203	0	1165	2	1163
207+50.00	50.00	99.91	0.00	167	0	1332	2	1330
208+00.00	50.00	100.00	0.06	185	0	1517	2	1515
208+50.00	50.00	95.77	0.65	181	1	1698	4	1694
209+00.00	50.00	89.63	0.37	172	1	1870	5	1865
209+50.00	50.00	90.22	0.00	167	0	2037	5	2032
210+00.00	50.00	92.86	0.01	170	0	2207	5	2202
210+50.00	50.00	91.93	0.00	171	0	2378	5	2373
210+70.60	20.60	86.84	0.00	68	0	2446	5	2441
211+00.00	29.40	81.92	0.00	92	0	2538	5	2533
211+40.15	40.15	73.64	0.24	116	0	2654	5	2649
211+50.00	9.85	69.39	5.26	26	1	2680	6	2674
211+64.42	14.42	25.17	0.06	25	1	2705	7	2698
211+71.66	7.24	19.32	3.01	6	0	2711	7	2704
211+90.66	19.00	71.58	0.70	32	1	2743	8	2735
212+00.00	9.34	70.81	0.39	25	0	2768	8	2760
212+50.00	50.00	56.54	0.00	118	0	2886	8	2878
213+00.00	50.00	66.58	36.21	114	34	3000	49	2951
213+50.00	50.00	73.36	1.78	130	35	3130	91	3039
214+00.00	50.00	75.42	0.96	138	3	3268	95	3173
214+50.00	50.00	75.44	0.05	140	1	3408	96	3312
214+76.50	26.50	74.91	0.11	74	0	3482	96	3386
215+00.00	23.50	76.16	0.42	66	0	3548	96	3452
215+50.00	50.00	76.35	1.38	141	2	3689	98	3591
216+00.00	50.00	78.48	1.06	143	2	3832	101	3731

DIVISION 1 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
216+50.00	50.00	75.66	1.87	143	3	3975	104	3871
216+94.81	44.81	115.09	0.00	158	2	4133	107	4026
217+00.00	5.19	120.42	0.00	23	0	4156	107	4049
217+50.00	50.00	86.74	0.00	192	0	4348	107	4241
218+00.00	50.00	87.45	0.02	161	0	4509	107	4402
218+50.00	50.00	93.73	0.00	168	0	4677	107	4570
219+00.00	50.00	96.32	0.00	176	0	4853	107	4746
219+50.00	50.00	97.92	0.41	180	0	5033	107	4926
220+00.00	50.00	104.81	0.28	188	1	5221	108	5113
220+25.00	25.00	101.59	0.88	96	1	5317	109	5208
220+50.00	25.00	102.08	1.51	94	1	5411	110	5301
221+00.00	50.00	105.50	0.53	192	2	5603	113	5490
221+50.00	50.00	91.29	0.31	182	1	5785	114	5671
222+00.00	50.00	101.45	0.00	178	0	5963	114	5849
222+18.21	18.21	113.07	0.00	72	0	6035	114	5921
222+50.00	31.79	108.35	0.00	130	0	6165	114	6051
223+00.00	50.00	70.24	4.14	165	4	6330	119	6211
223+50.00	50.00	55.47	4.84	116	8	6446	128	6318
224+00.00	50.00	49.78	8.49	97	12	6543	143	6400
224+50.00	50.00	55.59	7.43	98	15	6641	161	6480
225+00.00	50.00	56.86	1.95	104	9	6745	172	6573
225+50.00	50.00	80.40	0.11	127	2	6872	174	6698
225+73.57	23.57	77.85	0.11	69	0	6941	174	6767
226+00.00	26.43	96.75	0.03	85	0	7026	174	6852
226+50.00	50.00	92.84	0.00	176	0	7202	174	7028
227+00.00	50.00	91.61	0.00	171	0	7373	174	7199
227+50.00	50.00	87.38	0.02	166	0	7539	174	7365
228+00.00	50.00	76.76	0.20	152	0	7691	174	7517
228+50.00	50.00	76.82	0.11	142	0	7833	174	7659
229+00.00	50.00	73.84	0.40	140	0	7973	174	7799
229+50.00	50.00	76.43	0.14	139	1	8112	175	7937
230+00.00	50.00	77.69	0.09	143	0	8255	175	8080
230+04.08	4.08	76.95	0.15	12	0	8267	175	8092
230+50.00	45.92	45.23	0.00	104	0	8371	175	8196
230+62.42	12.42	49.22	0.00	22	0	8393	175	8218
TOTAL		8,393		146				

DIVISION 1 - CTH D

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
343+48.03	0.00	7.24	0.01	0	0	0	0	0
344+04.20	56.17	90.42	20.01	102	21	102	25	77
344+33.90	29.70	94.20	34.56	102	30	204	61	143
344+50.00	16.10	94.19	39.25	56	22	260	88	172
344+58.86	8.86	94.43	39.89	31	13	291	103	188
344+83.86	25.00	100.43	42.10	90	38	381	149	232
344+97.93	14.07	101.68	49.03	53	24	434	178	256
345+00.00	2.07	101.43	50.77	8	4	442	182	260
345+22.77	22.77	97.72	71.49	84	52	526	245	281
345+47.79	25.02	100.42	56.24	92	59	618	316	302
345+50.00	2.21	101.12	54.71	8	5	626	322	304
346+00.00	50.00	98.59	201.21	185	237	811	606	205
346+37.50	37.50	92.66	159.40	133	250	944	906	38
346+50.00	12.50	95.24	163.87	43	75	987	996	-9
347+00.00	50.00	108.76	211.06	189	347	1176	1412	-236
347+50.00	50.00	119.25	88.31	211	277	1387	1745	-358
347+80.39	30.39	118.52	79.90	134	95	1521	1859	-338
348+00.00	19.61	119.56	81.43	86	59	1607	1930	-323
348+05.35	5.35	120.00	77.86	24	16	1631	1949	-318
348+30.39	25.04	121.25	47.09	112	58	1743	2018	-275
348+50.00	19.61	123.30	41.14	89	32	1832	2057	-225
349+00.00	50.00	134.21	36.23	238	72	2070	2143	-73
349+24.66	24.66	149.25	37.40	129	34	2199	2184	15
349+50.00	25.34	130.48	32.14	131	33	2330	2224	106
349+97.01	47.01	142.20	133.52	237	144	2567	2396	171
350+00.00	2.99	143.03	128.94	16	15	2583	2414	169
350+50.00	50.00	174.32	163.55	294	271	2877	2740	137
351+00.00	50.00	170.32	160.61	319	300	3196	3100	96
351+47.69	47.69	165.33	178.81	296	300	3492	3460	32
351+50.00	2.31	165.04	178.49	14	15	3506	3478	28
351+72.67	22.67	163.66	152.13	138	139	3644	3644	0
351+97.65	24.98	165.74	92.88	152	113	3796	3780	16
352+00.00	2.35	165.91	87.49	14	8	3810	3790	20
352+11.66	11.66	173.13	34.80	73	26	3883	3821	62
352+20.16	8.50	145.47	12.13	50	7	3933	3829	104
			TOTAL	3,933	3,191			

DIVISION 1 - LINCOLN AVE

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
415+04.15	0.00	41.02	1.12	0	0	0	0	0
415+50.00	45.85	45.59	0.51	74	1	74	1	73
416+00.00	50.00	49.73	0.32	88	1	162	2	160
416+50.00	50.00	52.36	0.00	95	0	257	2	255
416+63.16	13.16	53.39	0.00	26	0	283	2	281
417+00.00	36.84	56.84	0.90	75	1	358	4	354
417+50.00	50.00	56.09	2.08	105	3	463	7	456
418+00.00	50.00	94.89	13.72	140	15	603	25	578
418+50.00	50.00	89.04	19.80	170	31	773	62	711
419+00.00	50.00	91.09	29.83	167	46	940	118	822
419+50.00	50.00	84.89	17.04	163	43	1103	169	934
419+62.00	12.00	83.23	29.68	37	10	1140	181	959
420+00.00	38.00	84.44	1.87	118	22	1258	208	1050
420+50.00	50.00	116.04	24.04	186	24	1444	236	1208
420+60.70	10.70	132.18	26.32	49	10	1493	248	1245
			TOTAL	1,493	207			

DIVISION 1 - ROGERS DR

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
442+76.89	0.00	41.27	0.05	0	0	0	0	0
443+00.00	23.11	58.44	0.36	43	0	43	0	43
443+50.00	50.00	77.49	0.03	126	0	169	0	169
444+00.00	50.00	103.33	0.00	167	0	336	0	336
444+04.93	4.93	103.47	0.00	19	0	355	0	355
444+50.00	45.07	114.97	0.00	182	0	537	0	537
445+00.00	50.00	159.39	0.32	254	0	791	0	791
445+25.00	25.00	140.64	6.83	139	3	930	4	926
445+50.00	25.00	138.53	1.17	129	4	1059	8	1051
446+00.00	50.00	133.34	1.52	252	2	1311	11	1300
446+41.56	41.56	139.42	0.42	210	1	1521	12	1509
446+50.00	8.44	133.93	1.42	43	0	1564	12	1552
447+00.00	50.00	83.53	16.88	201	17	1765	32	1733
447+50.00	50.00	75.26	19.37	147	34	1912	73	1839
448+00.00	50.00	78.39	24.34	142	40	2054	121	1933
448+50.00	50.00	110.78	11.87	175	34	2229	162	2067
449+00.00	50.00	166.24	0.27	257	11	2486	175	2311
449+02.70	2.70	169.48	1.14	17	0	2503	175	2328
			TOTAL	2,503	146			

DIVISION 2 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
151+15.81	0.00	54.29	0.46	0	0	0	0	0
151+41.27	25.46	59.18	6.98	54	4	54	5	49
151+50.00	8.73	60.20	4.83	19	2	73	7	66
151+91.83	41.83	67.14	1.71	99	5	172	13	159
152+00.00	8.17	68.00	1.75	20	1	192	14	178
152+50.00	50.00	80.34	0.64	137	2	329	17	312
152+75.00	25.00	80.96	0.30	75	0	404	17	387
153+00.00	25.00	79.32	0.74	74	0	478	17	461
153+50.00	50.00	54.17	0.17	124	1	602	18	584
154+00.00	50.00	50.27	2.97	97	3	699	22	677
154+50.00	50.00	60.51	1.64	103	4	802	26	776
155+00.00	50.00	79.28	1.67	129	3	931	30	901
155+50.00	50.00	90.90	1.49	158	3	1089	34	1055
156+00.00	50.00	92.77	1.09	170	2	1259	36	1223
156+50.00	50.00	98.28	0.00	177	1	1436	37	1399
157+00.00	50.00	71.71	2.92	157	3	1593	41	1552
157+15.88	15.88	71.34	2.73	42	2	1635	43	1592
157+50.00	34.12	85.18	0.48	99	2	1734	46	1688
158+00.00	50.00	101.53	1.35	173	2	1907	48	1859
158+50.00	50.00	171.97	0.62	253	2	2160	50	2110
159+00.00	50.00	300.01	0.00	437	1	2597	52	2545
159+08.03	8.03	289.03	0.00	88	0	2685	52	2633
159+50.00	41.97	284.34	0.00	446	0	3131	52	3079
160+00.00	50.00	58.11	4.93	317	5	3448	58	3390
160+50.00	50.00	41.98	2.71	93	7	3541	66	3475
161+00.00	50.00	60.42	0.27	95	3	3636	70	3566
161+25.00	25.00	65.46	0.29	58	0	3694	70	3624
161+50.00	25.00	71.98	0.00	64	0	3758	70	3688
162+00.00	50.00	70.42	1.04	132	1	3890	71	3819
162+50.00	50.00	77.45	0.00	137	1	4027	72	3955

DIVISION 2 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
163+00.00	50.00	78.73	0.00	145	0	4172	72	4100
163+50.00	50.00	106.84	0.20	172	0	4344	72	4272
163+70.94	20.94	111.84	0.00	85	0	4429	72	4357
164+00.00	29.06	67.29	0.00	96	0	4525	72	4453
164+50.00	50.00	69.33	0.56	126	1	4651	73	4578
165+00.00	50.00	76.98	1.23	135	2	4786	76	4710
165+50.00	50.00	77.51	0.01	143	1	4929	77	4852
165+81.02	31.02	72.01	0.00	86	0	5015	77	4938
166+00.00	18.98	73.60	0.45	51	0	5066	77	4989
166+50.00	50.00	80.26	0.01	142	0	5208	77	5131
167+00.00	50.00	83.38	0.01	152	0	5360	77	5283
167+50.00	50.00	79.00	0.00	150	0	5510	77	5433
168+00.00	50.00	99.81	0.00	166	0	5676	77	5599
168+34.24	34.24	129.35	0.00	145	0	5821	77	5744
168+50.00	15.76	137.42	0.00	78	0	5899	77	5822
169+00.00	50.00	79.48	0.81	201	1	6100	78	6022
169+50.00	50.00	82.03	0.33	150	1	6250	79	6171
170+00.00	50.00	85.57	0.00	155	0	6405	79	6326
170+08.95	8.95	88.32	0.00	29	0	6434	79	6355
170+10.75	1.80	88.44	0.00	6	0	6440	79	6361
170+50.00	39.25	89.95	0.00	130	0	6570	79	6491
171+00.00	50.00	84.91	0.00	162	0	6732	79	6653
171+50.00	50.00	73.37	0.03	147	0	6879	79	6800
172+00.00	50.00	66.48	1.09	129	1	7008	80	6928
172+13.24	13.24	65.58	1.45	32	1	7040	82	6958
172+50.00	36.76	61.77	2.09	87	2	7127	84	7043
			TOTAL	7,127	70			

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PROJECT NO: 2722-04-71 | HWY: CTH O | COUNTY: WAUKESHA | EARTHWORK DATA | SHEET NO: 756 E

DIVISION 2 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
173+00.00	0.00	57.89	2.03	0	0	0	0	0
173+50.00	50	57.67	2.40	107	4	107	5	102
174+00.00	50	60.07	0.65	109	3	216	8	208
174+50.00	50	58.52	0.94	110	1	326	10	316
175+00.00	50	54.96	1.77	105	3	431	13	418
175+28.30	28.3	52.52	1.77	56	2	487	16	471
175+50.00	21.7	53.85	2.68	43	2	530	18	512
176+00.00	50	53.42	2.35	99	5	629	24	605
176+26.24	26.24	55.53	2.61	53	2	682	26	656
176+50.00	23.76	55.76	5.22	49	3	731	30	701
176+56.01	6.01	55.91	4.64	12	1	743	31	712
177+00.00	43.99	56.41	2.74	91	6	834	38	796
177+50.00	50	54.45	2.96	103	5	937	44	893
178+00.00	50	52.76	2.80	99	5	1036	50	986
178+50.00	50	51.13	1.66	96	4	1132	55	1077
178+60.38	10.38	50.56	1.80	20	1	1152	56	1096
179+00.00	39.62	56.76	0.58	79	2	1231	59	1172
179+50.00	50	55.51	1.72	104	2	1335	61	1274
180+00.00	50	52.70	2.06	100	4	1435	66	1369
180+12.73	12.73	50.73	3.25	24	1	1459	67	1392
180+50.00	37.27	51.37	3.27	70	5	1529	73	1456
180+99.36	49.36	97.21	5.35	136	8	1665	83	1582
181+00.00	0.64	97.73	5.35	2	0	1667	83	1584
181+50.00	50	58.26	4.48	144	9	1811	94	1717
181+90.00	40	70.44	1.95	95	5	1906	100	1806
182+00.00	10	72.11	0.87	26	1	1932	101	1831
182+50.00	50	77.55	0.38	139	1	2071	102	1969
183+00.00	50	87.49	2.60	153	3	2224	106	2118
183+50.00	50	86.34	0.35	161	3	2385	109	2276
184+00.00	50	80.88	0.00	155	0	2540	109	2431
184+50.00	50	68.20	1.20	138	1	2678	110	2568
184+68.54	18.54	63.84	0.09	45	0	2723	110	2613
185+00.00	31.46	62.01	0.54	73	0	2796	110	2686
185+50.00	50	81.81	0.00	133	0	2929	110	2819
185+66.30	16.3	93.17	0.00	53	0	2982	110	2872

DIVISION 2 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
186+00.00	33.7	97.87	0.00	119	0	3101	110	2991
186+50.00	50	63.72	0.44	150	0	3251	110	3141
187+00.00	50	73.44	0.03	127	0	3378	110	3268
187+50.00	50	73.50	0.03	136	0	3514	110	3404
188+00.00	50	66.00	0.16	129	0	3643	110	3533
188+50.00	50	62.34	0.75	119	1	3762	112	3650
189+00.00	50	41.58	12.77	96	13	3858	127	3731
189+50.00	50	38.30	21.47	74	32	3932	166	3766
190+00.00	50	58.39	7.51	90	27	4022	198	3824
190+50.00	50	73.33	0.11	122	7	4144	206	3938
191+00.00	50	81.27	0.01	143	0	4287	206	4081
191+50.00	50	70.04	0.00	140	0	4427	206	4221
192+00.00	50	102.23	3.21	160	3	4587	210	4377
192+20.86	20.86	74.43	2.42	68	2	4655	212	4443
192+50.00	29.14	93.98	2.20	91	2	4746	215	4531
192+86.23	36.23	49.95	2.47	97	3	4843	218	4625
193+00.00	13.77	48.08	2.60	25	1	4868	220	4648
193+50.00	50	48.40	6.64	89	9	4957	230	4727
194+00.00	50	67.49	3.14	107	9	5064	241	4823
194+50.00	50	79.65	0.00	136	3	5200	245	4955
195+00.00	50	81.40	0.04	149	0	5349	245	5104
195+50.00	50	73.58	0.45	144	0	5493	245	5248
196+00.00	50	84.42	0.00	146	0	5639	245	5394
196+50.00	50	99.24	0.00	170	0	5809	245	5564
197+00.00	50	99.98	0.00	184	0	5993	245	5748
197+50.00	50	96.93	0.60	182	1	6175	246	5929
198+00.00	50	116.60	0.00	198	1	6373	247	6126
198+09.75	9.75	133.32	0.00	45	0	6418	247	6171
198+11.75	2	136.54	0.00	10	0	6428	247	6181
198+50.00	38.25	117.52	0.61	180	0	6608	247	6361
199+00.00	50	61.72	0.24	166	1	6774	248	6526
199+50.00	50	68.12	0.00	120	0	6894	248	6646
200+00.00	50	71.18	0.00	129	0	7023	248	6775
200+50.00	50	70.09	0.00	131	0	7154	248	6906
201+00.00	50	63.78	0.26	124	0	7278	248	7030
201+50.00	50	66.12	0.00	120	0	7398	248	7150
202+00.00	50	68.27	0.00	124	0	7522	248	7274
202+50.00	50	68.55	0.00	127	0	7649	248	7401
			TOTAL	7,649	207			

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PROJECT NO: 2722-04-71 | HWY: CTH O | COUNTY: WAUKESHA | EARTHWORK DATA | SHEET NO: 757 | E

DIVISION 2 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
203+00.00	0.00	74.45	0.23	0	0	0	0	0
203+50.00	50.00	88.95	0.02	151	0	151	0	151
204+00.00	50.00	95.91	0.00	171	0	322	0	322
204+50.00	50.00	103.10	0.00	184	0	506	0	506
205+00.00	50.00	108.94	0.00	196	0	702	0	702
205+50.00	50.00	109.83	0.00	203	0	905	0	905
206+00.00	50.00	73.87	0.00	170	0	1075	0	1075
206+37.94	37.94	23.55	0.00	68	0	1143	0	1143
206+42.43	4.49	23.51	0.00	4	0	1147	0	1147
206+50.00	7.57	23.42	0.00	7	0	1154	0	1154
207+00.00	50.00	36.39	0.00	55	0	1209	0	1209
207+50.00	50.00	52.79	0.05	83	0	1292	0	1292
208+00.00	50.00	53.05	0.00	98	0	1390	0	1390
208+50.00	50.00	78.91	0.00	122	0	1512	0	1512
209+00.00	50.00	84.48	0.00	151	0	1663	0	1663
209+50.00	50.00	71.16	0.00	144	0	1807	0	1807
210+00.00	50.00	65.12	0.00	126	0	1933	0	1933
210+50.00	50.00	60.00	0.00	116	0	2049	0	2049
210+70.60	20.60	58.27	0.00	45	0	2094	0	2094
211+00.00	29.40	54.47	0.00	61	0	2155	0	2155
211+40.15	40.15	54.96	0.00	81	0	2236	0	2236
211+50.00	9.85	55.46	0.00	20	0	2256	0	2256
211+64.42	14.42	19.74	0.00	20	0	2276	0	2276
211+71.66	7.24	21.64	4.79	6	1	2282	1	2281
211+90.66	19.00	45.89	0.00	24	2	2306	4	2302
212+00.00	9.34	42.11	0.12	15	0	2321	4	2317
212+50.00	50.00	38.13	0.03	74	0	2395	4	2391
213+00.00	50.00	37.43	4.24	70	4	2465	8	2457
213+50.00	50.00	39.08	7.30	71	11	2536	22	2514
214+00.00	50.00	44.93	2.29	78	9	2614	32	2582
214+50.00	50.00	55.17	4.06	93	6	2707	40	2667
214+76.50	26.50	58.89	2.35	56	3	2763	43	2720
215+00.00	23.50	58.31	2.40	51	2	2814	46	2768
215+50.00	50.00	57.49	2.74	107	5	2921	52	2869
216+00.00	50.00	58.72	2.67	108	5	3029	58	2971

DIVISION 2 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
216+50.00	50.00	66.96	0.00	116	2	3141	60	3081
216+94.81	44.81	68.74	0.00	113	0	3254	60	3194
217+00.00	5.19	68.32	0.00	13	0	3267	60	3207
217+50.00	50.00	63.73	0.00	122	0	3389	60	3329
218+00.00	50.00	68.36	0.00	122	0	3511	60	3451
218+50.00	50.00	71.17	0.00	129	0	3640	60	3580
219+00.00	50.00	80.13	0.00	140	0	3780	60	3720
219+50.00	50.00	73.05	0.31	142	0	3922	60	3862
220+00.00	50.00	67.44	0.90	130	1	4052	61	3991
220+25.00	25.00	67.28	0.82	62	1	4114	62	4052
220+50.00	25.00	70.23	0.76	64	1	4178	64	4114
221+00.00	50.00	72.10	0.80	132	1	4310	65	4245
221+50.00	50.00	76.07	0.41	137	1	4447	66	4381
222+00.00	50.00	61.81	0.00	128	0	4575	66	4509
222+18.21	18.21	59.64	0.00	41	0	4616	66	4550
222+50.00	31.79	59.99	0.00	70	0	4686	66	4620
223+00.00	50.00	60.09	0.06	111	0	4797	66	4731
223+50.00	50.00	61.25	0.00	112	0	4909	66	4843
224+00.00	50.00	65.14	0.00	117	0	5026	66	4960
224+50.00	50.00	68.57	0.00	124	0	5150	66	5084
225+00.00	50.00	65.96	0.00	125	0	5275	66	5209
225+50.00	50.00	49.28	1.22	107	1	5382	67	5315
225+73.57	23.57	45.50	3.06	41	2	5423	70	5353
226+00.00	26.43	43.42	1.84	44	2	5467	72	5395
226+50.00	50.00	49.69	1.25	86	3	5553	76	5477
227+00.00	50.00	50.64	2.44	93	3	5646	79	5567
227+50.00	50.00	50.67	2.04	94	4	5740	84	5656
228+00.00	50.00	51.08	0.52	94	2	5834	86	5748
228+50.00	50.00	50.57	7.43	94	7	5928	95	5833
229+00.00	50.00	48.38	4.67	92	11	6020	108	5912
229+50.00	50.00	46.46	6.81	88	11	6108	121	5987
230+00.00	50.00	45.65	2.44	85	9	6193	132	6061
230+04.08	4.08	45.49	2.01	7	0	6200	132	6068
230+50.00	45.92	40.93	0.04	73	2	6273	134	6139
230+62.42	12.42	48.59	0.00	21	0	6294	134	6160
			TOTAL	6,294	112			

DIVISION 2 - CTH D

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
354+50.26	0.00	270.17	0.03	0	0	0	0	0
354+86.79	36.53	264.96	0.04	362	0	362	0	362
355+00.00	13.21	257.40	0.82	128	0	490	0	490
355+50.00	50.00	226.12	9.74	448	10	938	12	926
356+00.00	50.00	215.40	15.66	409	24	1347	41	1306
356+25.00	25.00	205.75	33.50	195	23	1542	68	1474
356+50.00	25.00	172.43	22.42	175	26	1717	100	1617
356+66.17	16.17	165.69	38.11	101	18	1818	121	1697
357+00.00	33.83	143.91	85.08	194	77	2012	214	1798
357+05.04	5.04	140.10	84.60	27	16	2039	233	1806
357+50.00	44.96	112.07	119.52	210	170	2249	437	1812
358+00.00	50.00	108.33	67.41	204	173	2453	644	1809
358+50.00	50.00	104.71	57.91	197	116	2650	784	1866
359+00.00	50.00	95.20	57.71	185	107	2835	912	1923
359+33.99	33.99	87.51	24.93	115	52	2950	974	1976
359+50.00	16.01	88.27	30.09	52	16	3002	994	2008
360+00.00	50.00	42.81	20.52	121	47	3123	1050	2073
360+19.38	19.38	65.41	0.00	39	7	3162	1058	2104
360+50.00	30.62	36.80	23.18	58	13	3220	1074	2146
361+00.00	50.00	37.15	4.99	68	26	3288	1105	2183
361+29.88	29.88	37.64	0.28	41	3	3329	1109	2220
361+50.00	20.12	37.52	3.44	28	1	3357	1110	2247
361+94.08	44.08	38.12	4.88	62	7	3419	1118	2301
			TOTAL	3,419	932			

DIVISION 2 - LINCOLN AVE

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
422+63.08	0.00	101.54	1.34	0	0	0	0	0
423+00.00	36.92	105.21	0.15	141	1	141	1	140
423+50.00	50	60.53	0.00	153	0	294	1	293
424+00.00	50	61.69	0.00	113	0	407	1	406
424+50.00	50	37.51	0.00	92	0	499	1	498
424+89.80	39.8	29.24	0.42	49	0	548	1	547
			TOTAL	548	1			

DIVISION 2 - WOODVIEW DR

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
450+94.34	0.00	108.79	3.60	0	0	0	0	0
451+00.00	5.66	109.05	3.54	23	1	23	1	22
451+50.00	50.00	97.60	0.86	191	4	214	6	208
451+83.38	33.38	85.97	0.35	113	1	327	7	320
			TOTAL	327	6			

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PROJECT NO: 2722-04-71 | HWY: CTH O | COUNTY: WAUKESHA | EARTHWORK DATA | SHEET NO: 759 | E

DIVISION 3 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
163+50.00	0.00	0.00	0.00	0	0	0	0	0
163+70.94	20.94	18.30	0.04	7	0	7	0	7
164+00.00	29.06	18.52	0.10	20	0	27	0	27
164+50.00	50.00	0.00	0.00	17	0	44	0	44
			TOTAL	44	0			

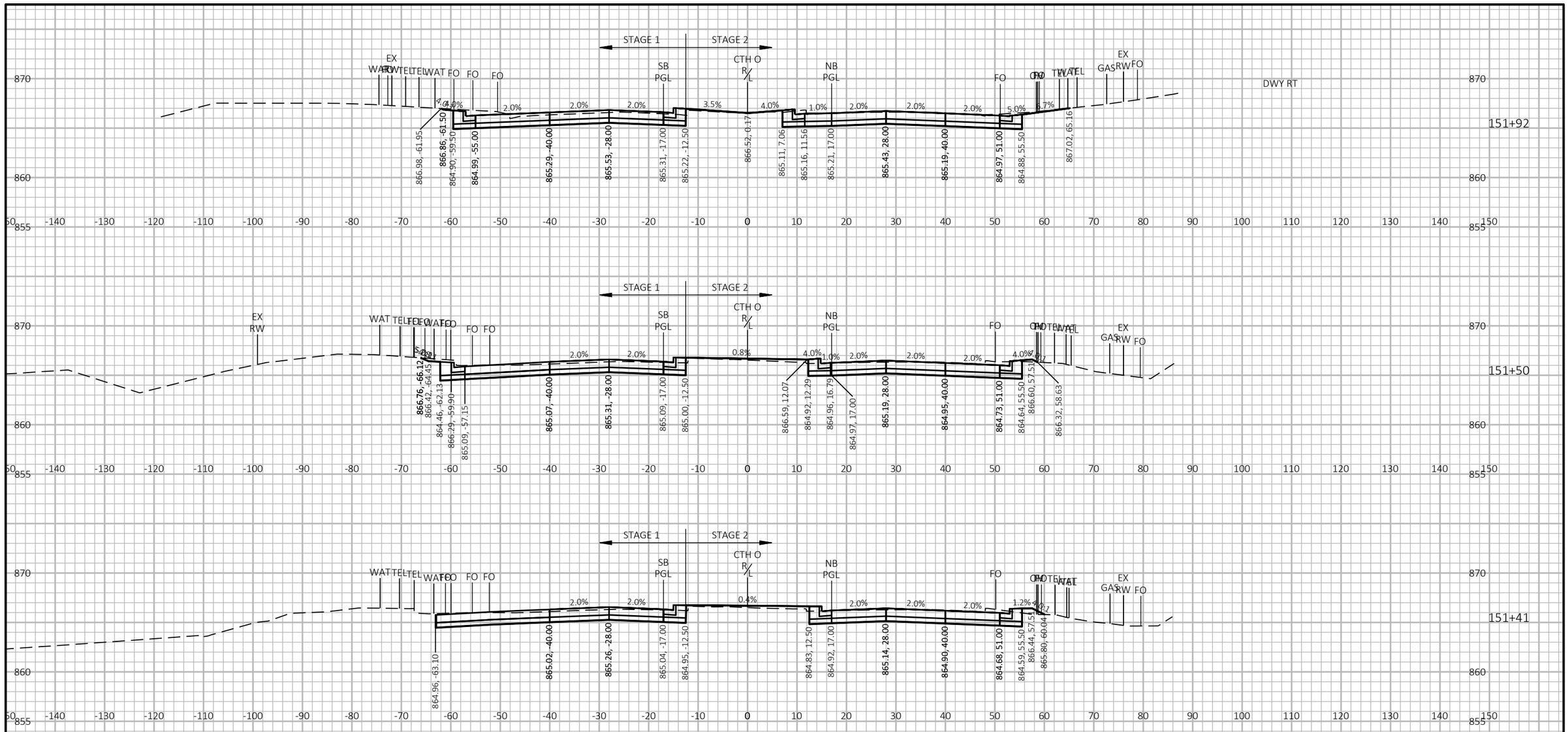
DIVISION 3 - CTH O

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
		CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
204+00.00	0.00	0.00	0.00	0	0	0	0	0
204+50.00	50.00	21.96	0.00	20	0	20	0	20
205+00.00	50.00	21.93	0.00	41	0	61	0	61
205+50.00	50.00	23.90	0.00	42	0	103	0	103
206+00.00	50.00	47.50	0.00	66	0	169	0	169
206+37.94	37.94	69.16	0.00	82	0	251	0	251
206+42.43	4.49	69.41	0.00	12	0	263	0	263
206+50.00	7.57	69.50	0.00	19	0	282	0	282
207+00.00	50.00	60.77	0.00	121	0	403	0	403
207+50.00	50.00	21.03	0.00	76	0	479	0	479
208+00.00	50.00	20.18	0.00	38	0	517	0	517
			TOTAL	517	0			

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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	EARTHWORK DATA	SHEET NO: 760	E



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 761	E

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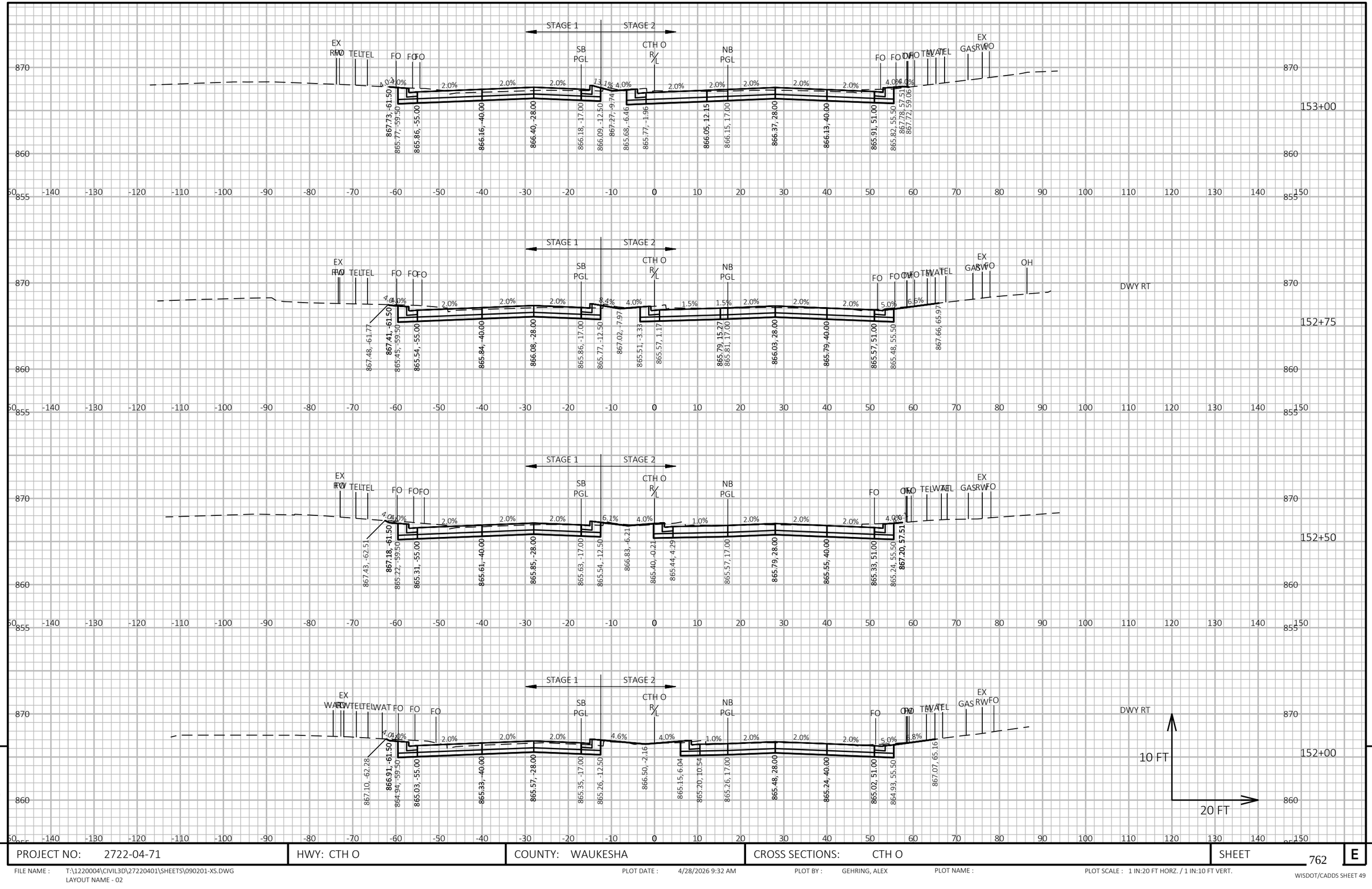
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 762	E

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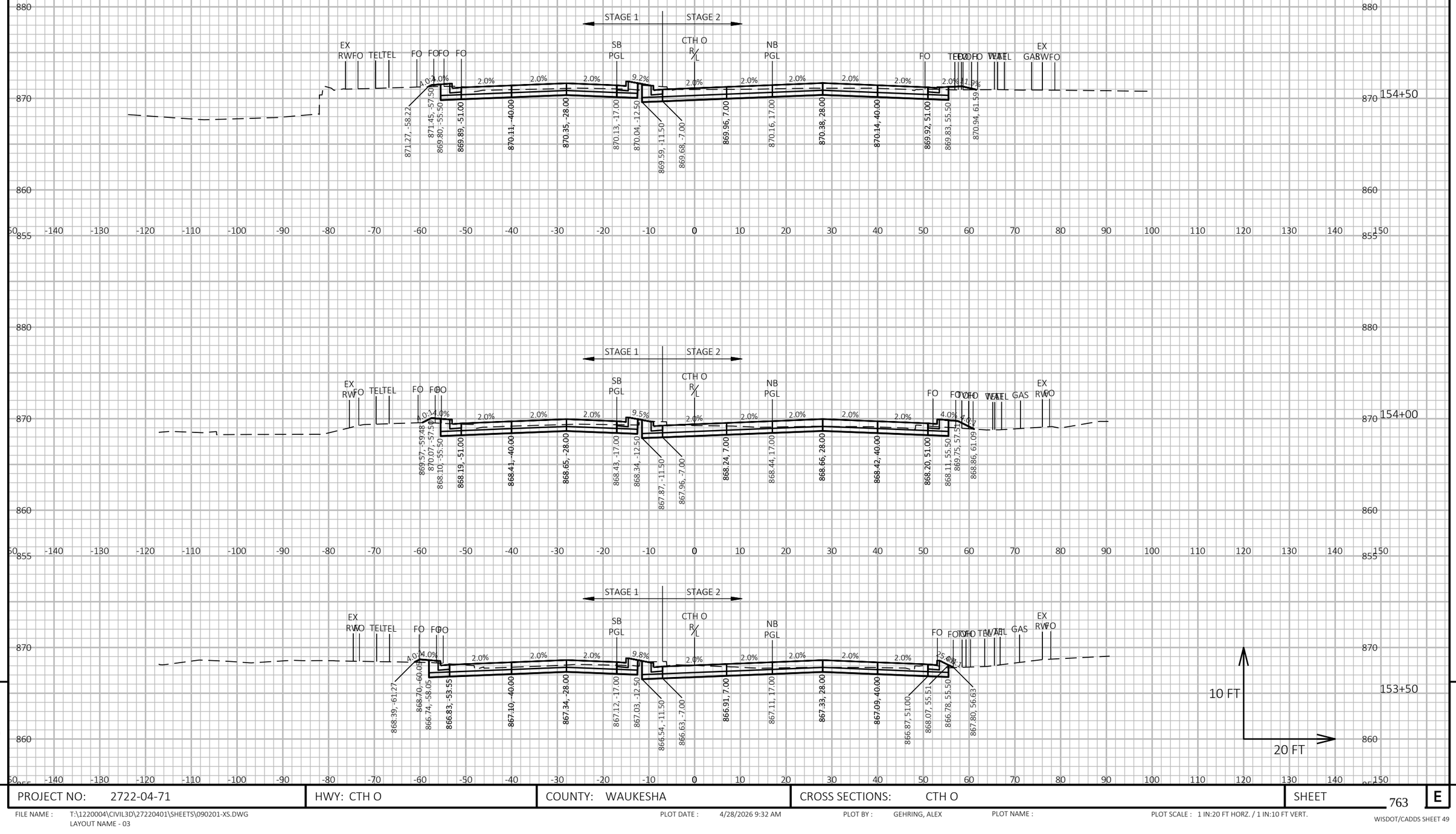
PLOT DATE : 4/28/2026 9:32 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 763	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 03

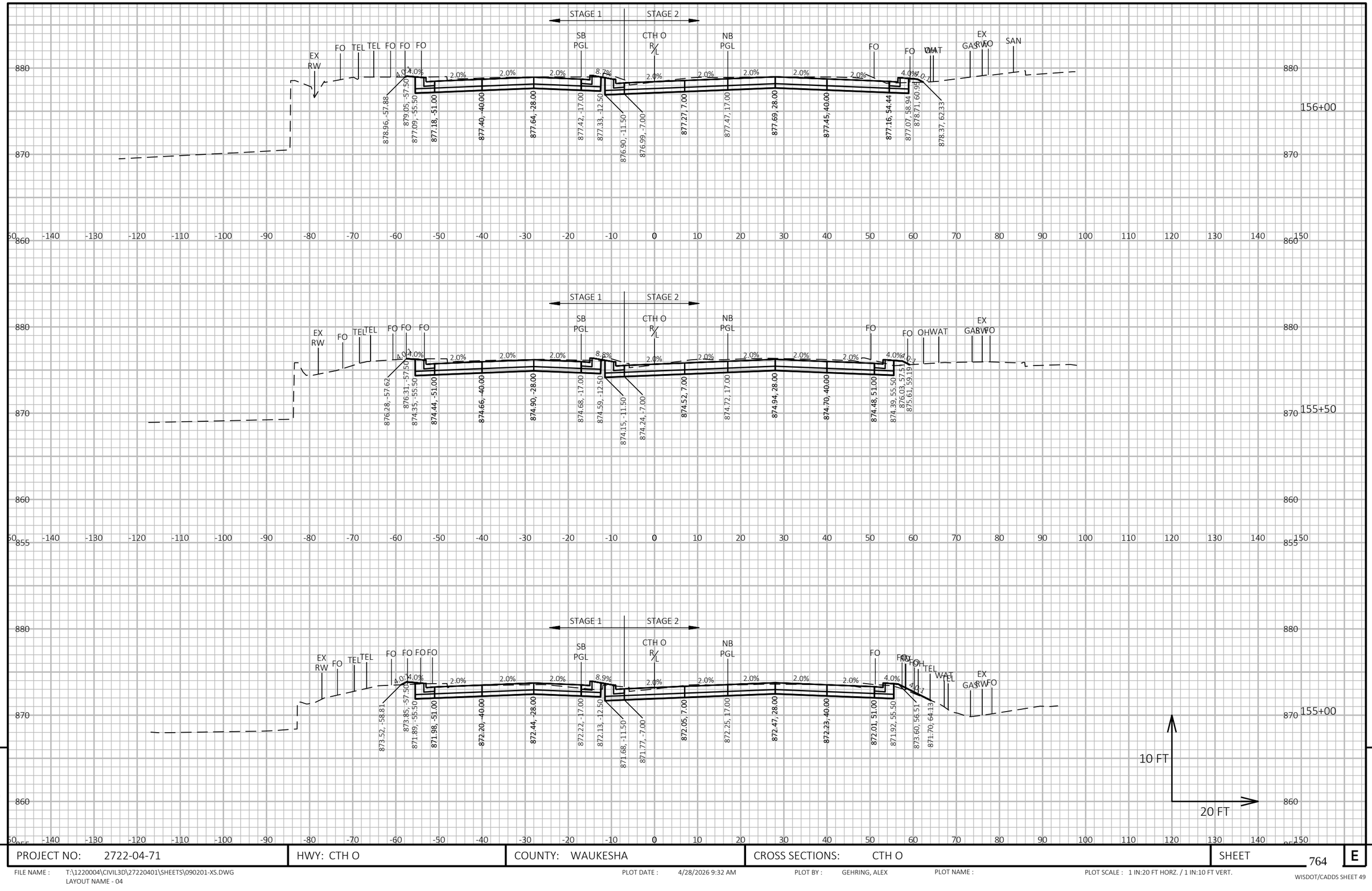
PLOT DATE : 4/28/2026 9:32 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 764	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 04

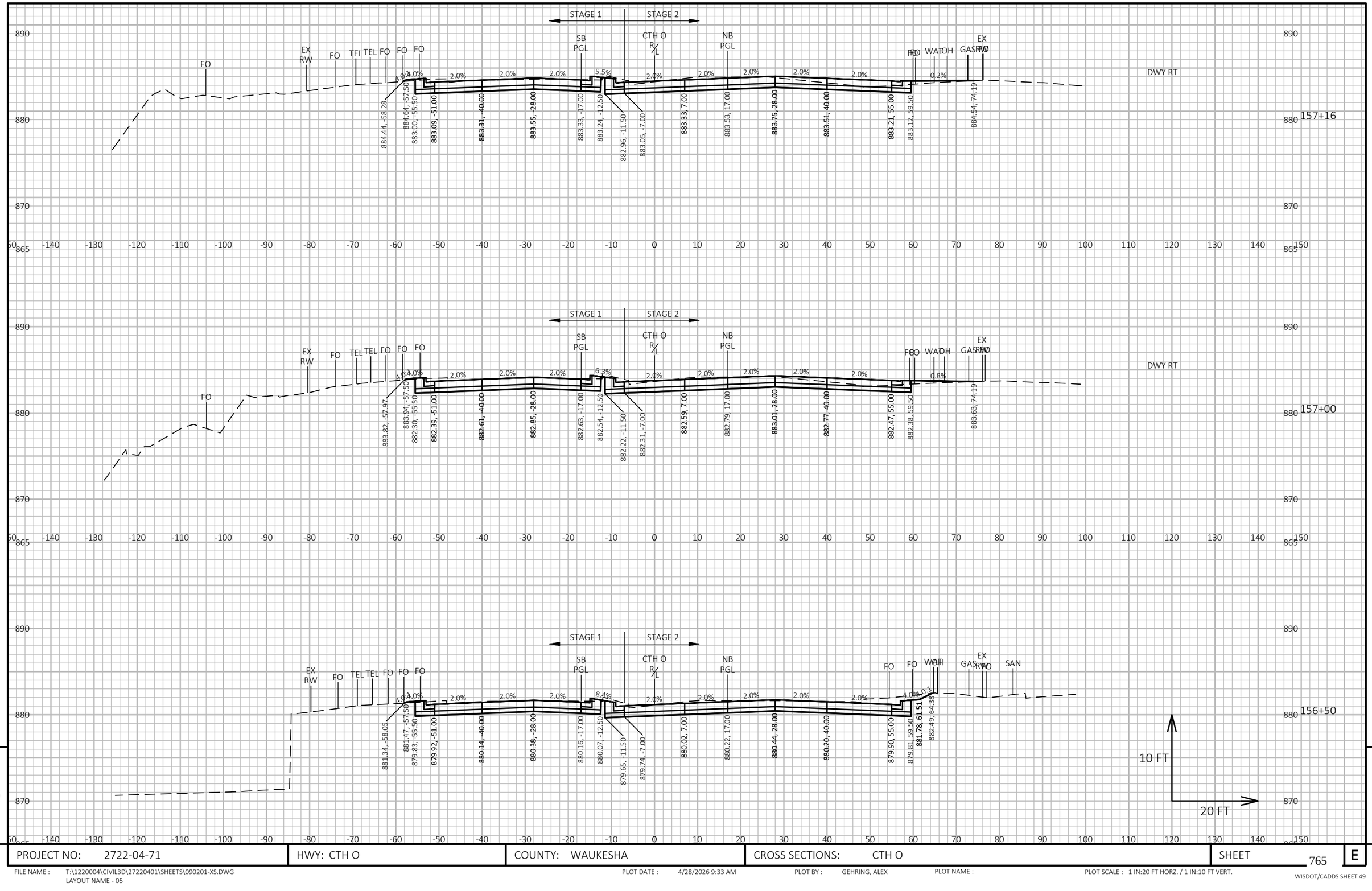
PLOT DATE : 4/28/2026 9:32 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 765 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 05

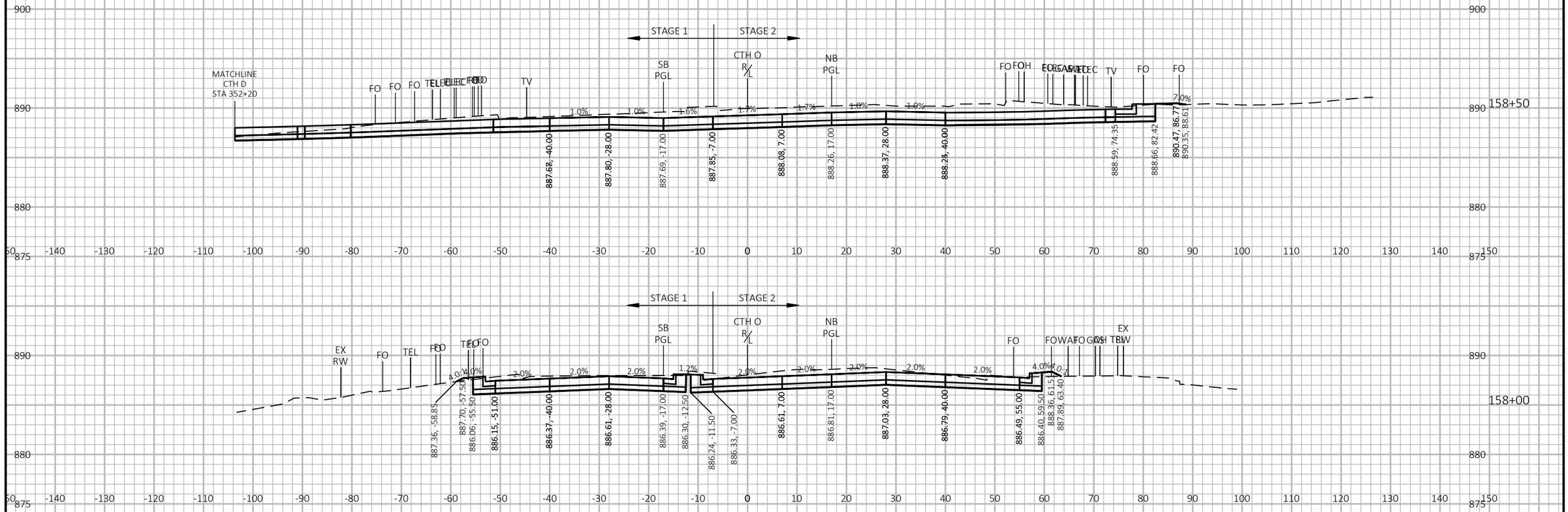
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 766

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 06

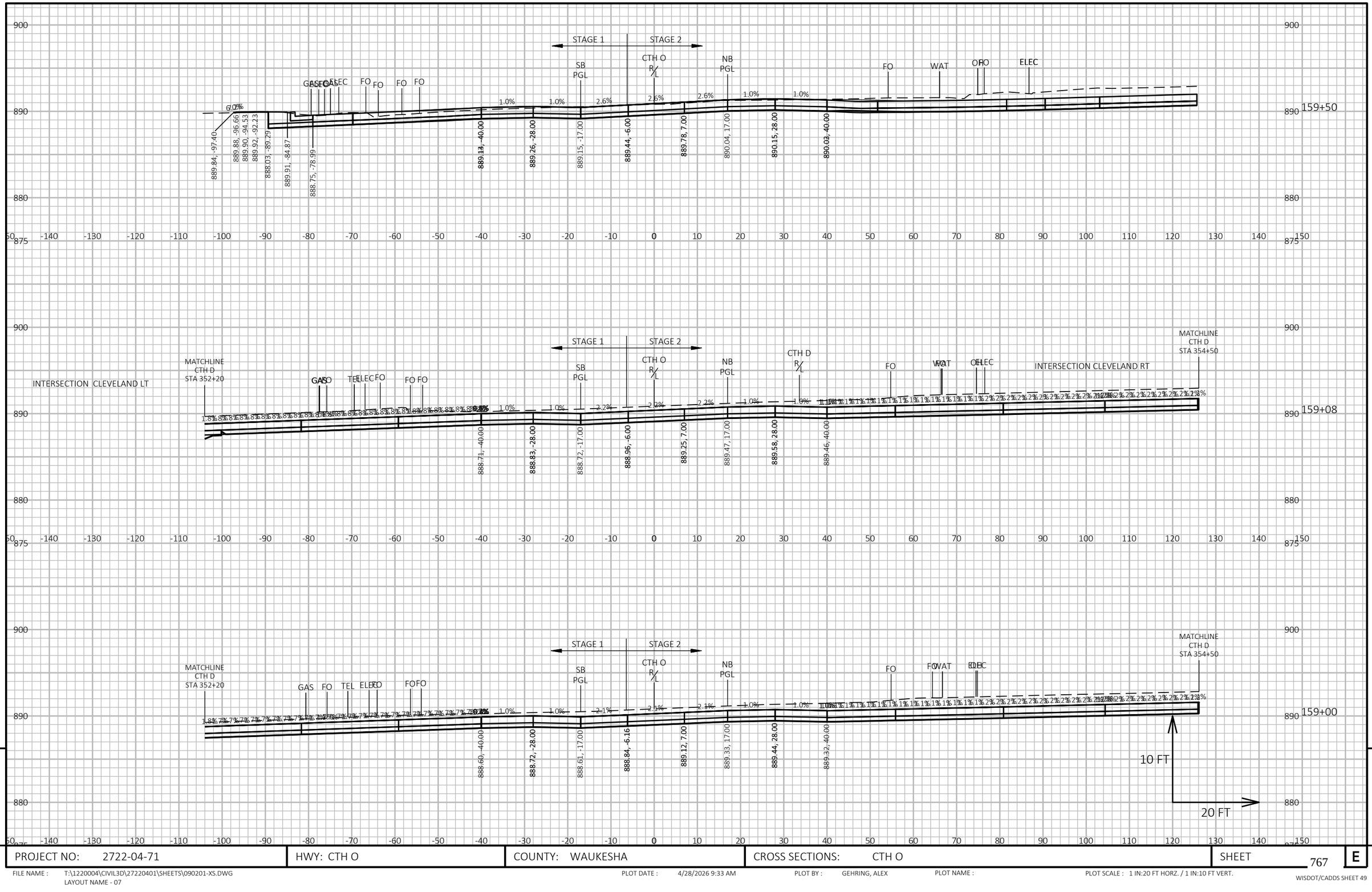
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

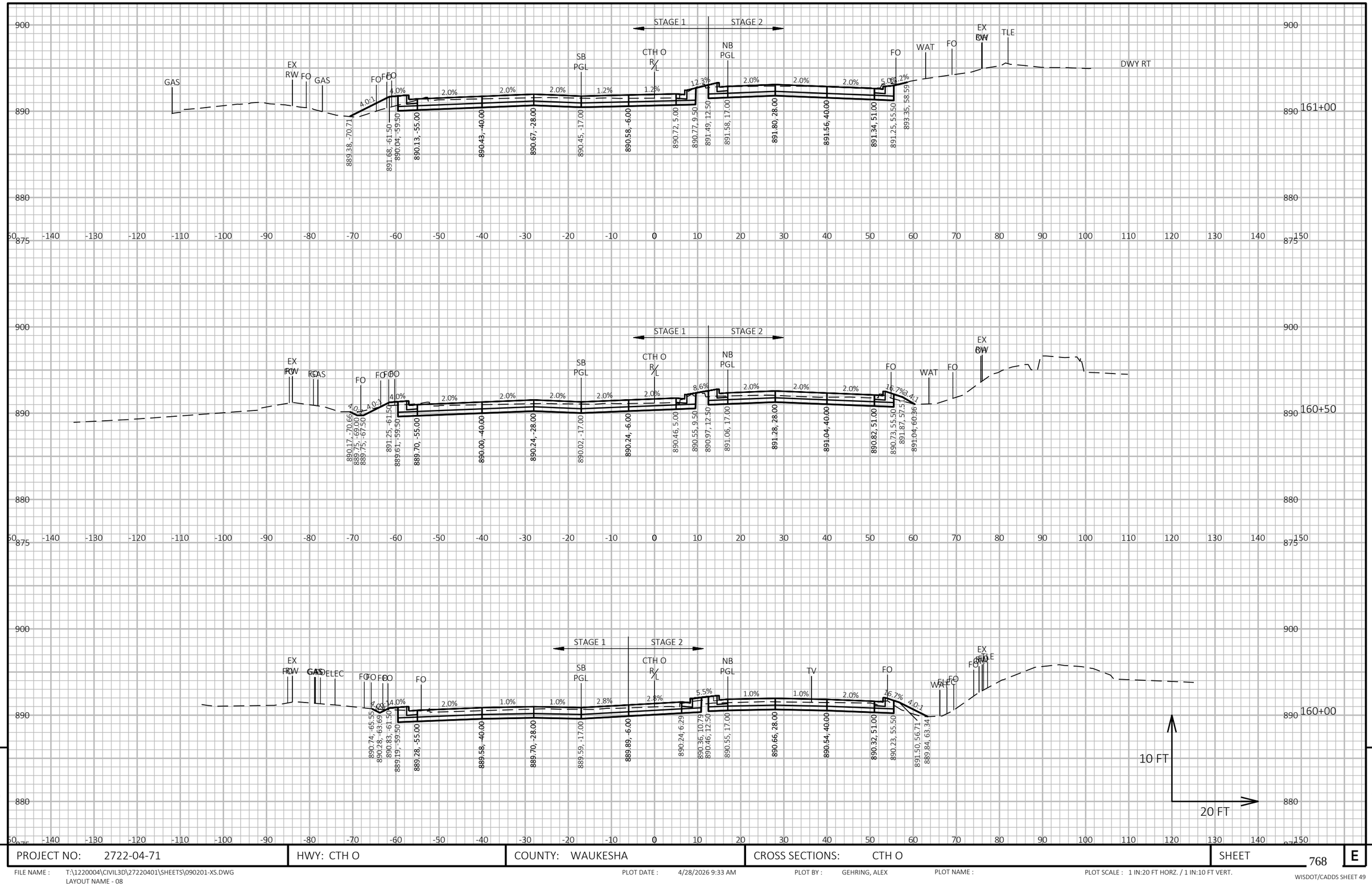


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 767 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 07

PLOT DATE : 4/28/2026 9:33 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 768	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 08

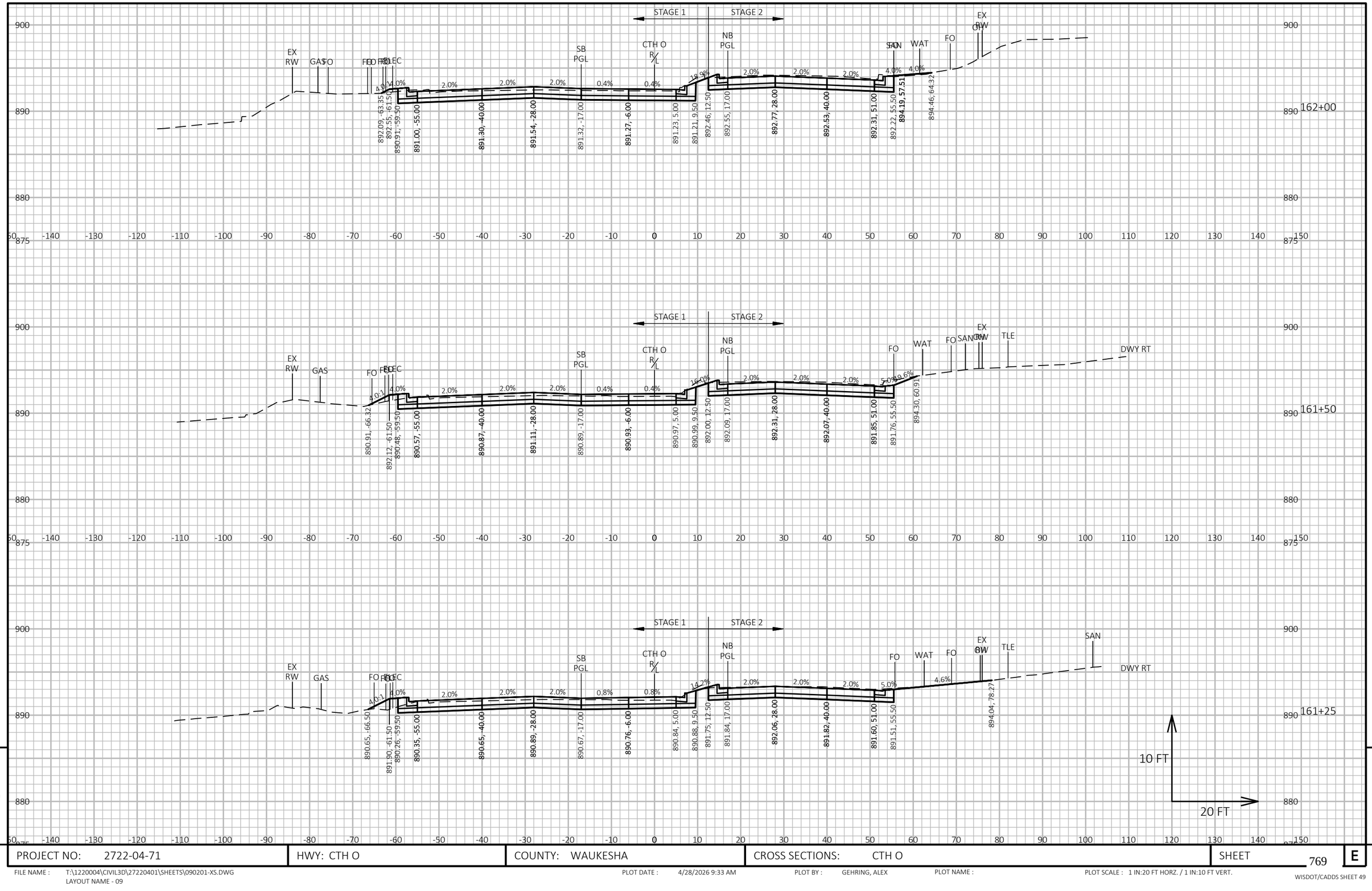
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 769 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 09

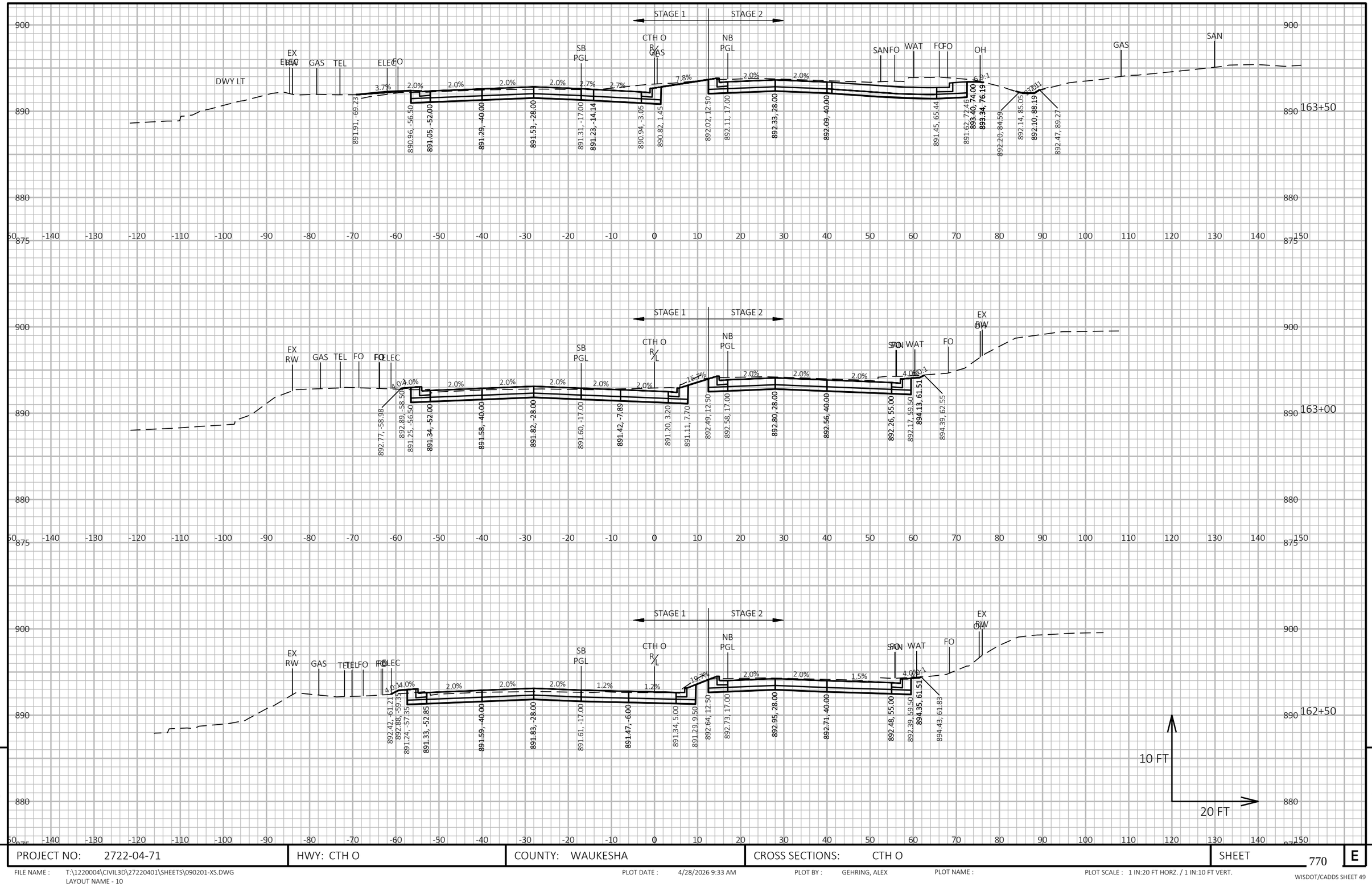
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

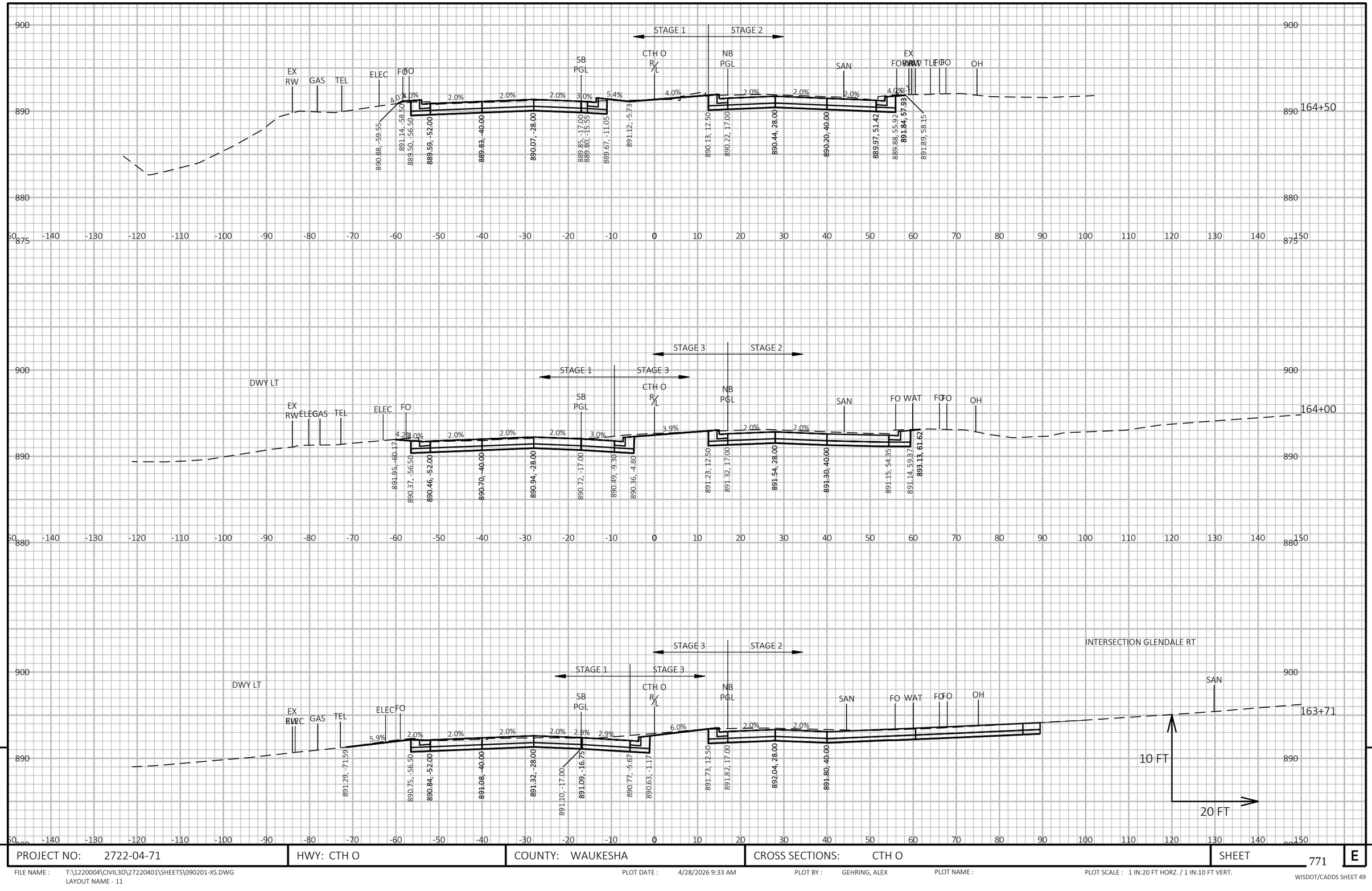


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 770 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 10

PLOT DATE : 4/28/2026 9:33 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

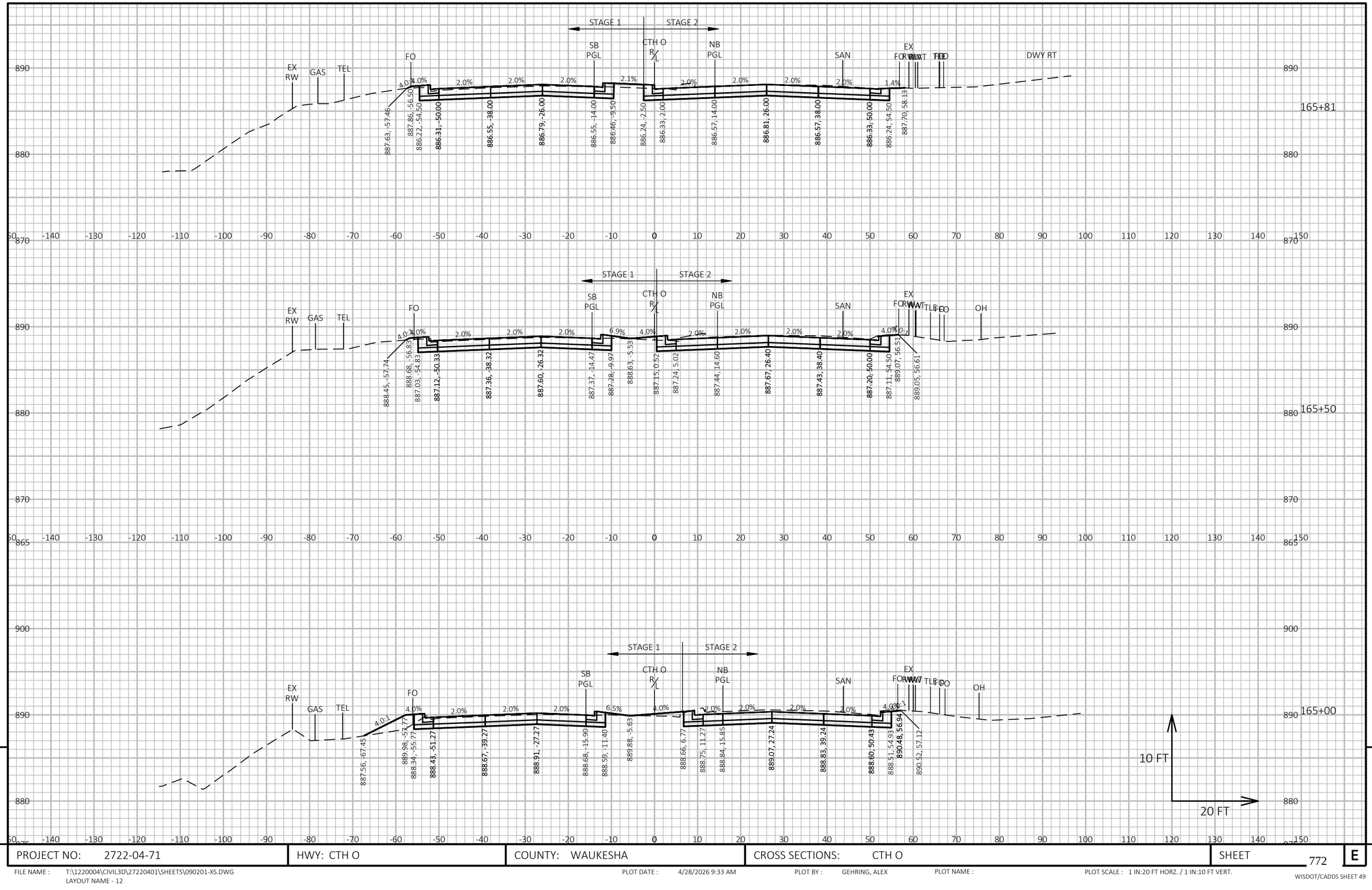


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 771	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 4/28/2026 9:33 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 772	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 12

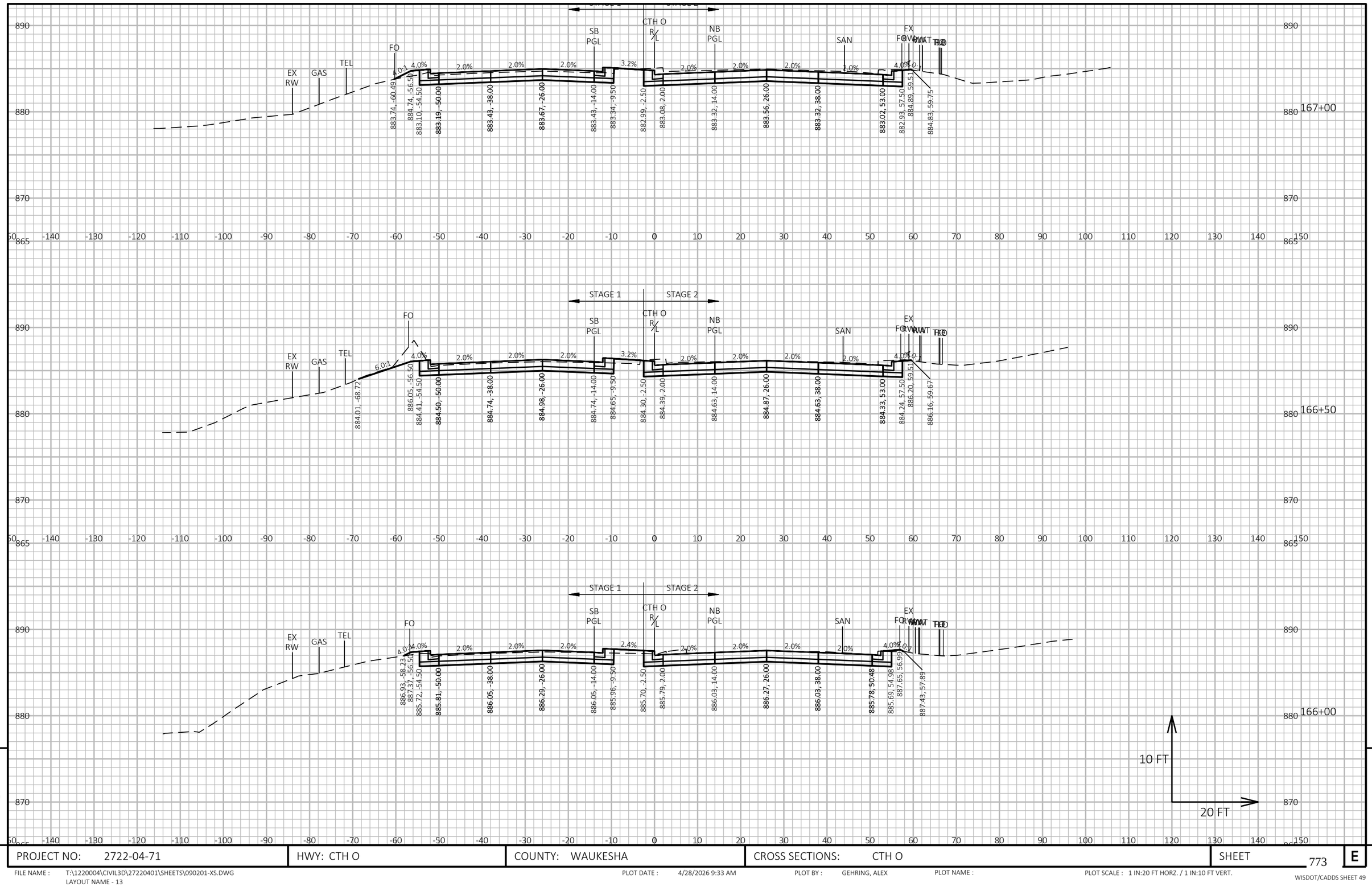
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 773	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 13

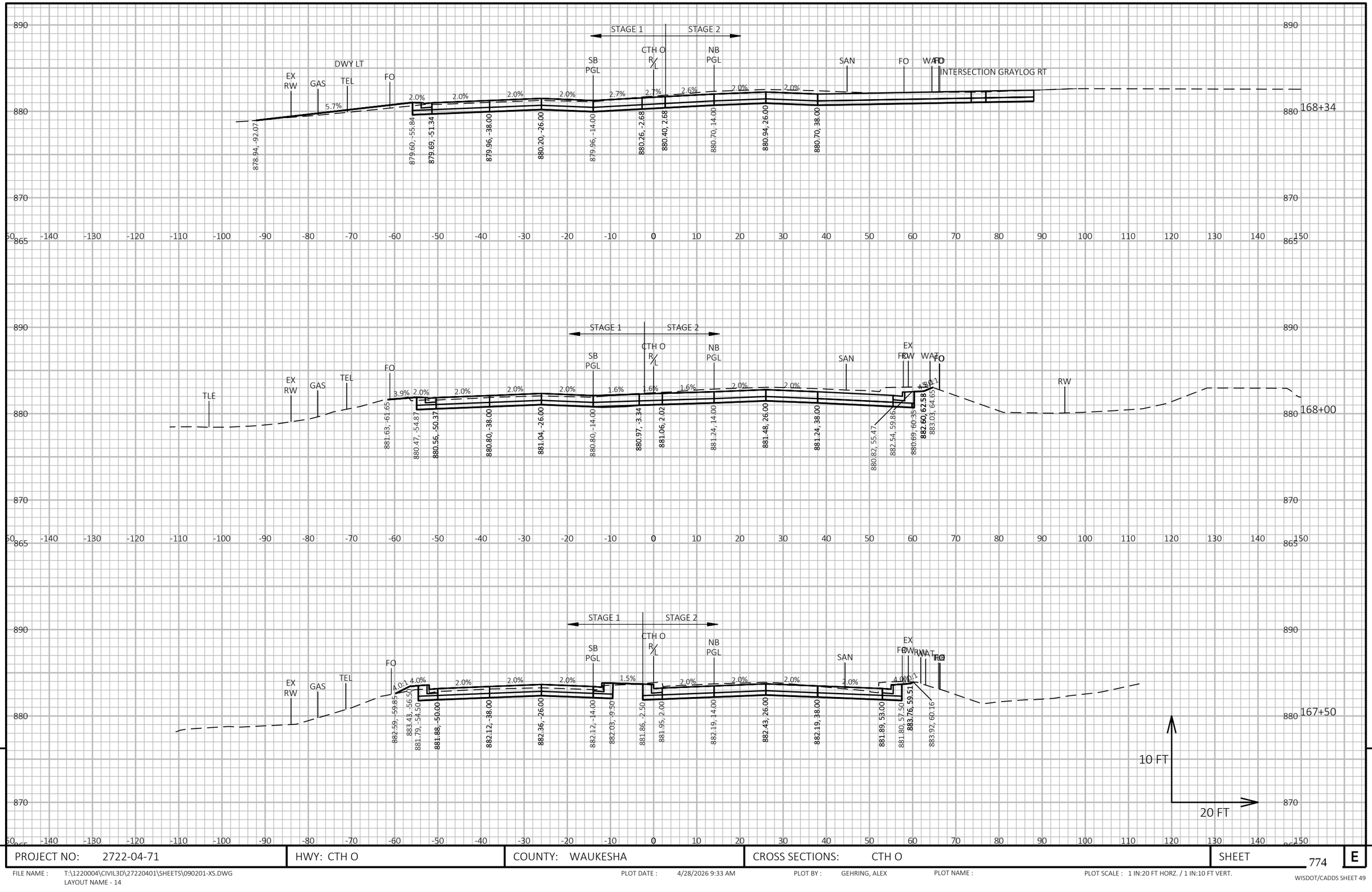
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

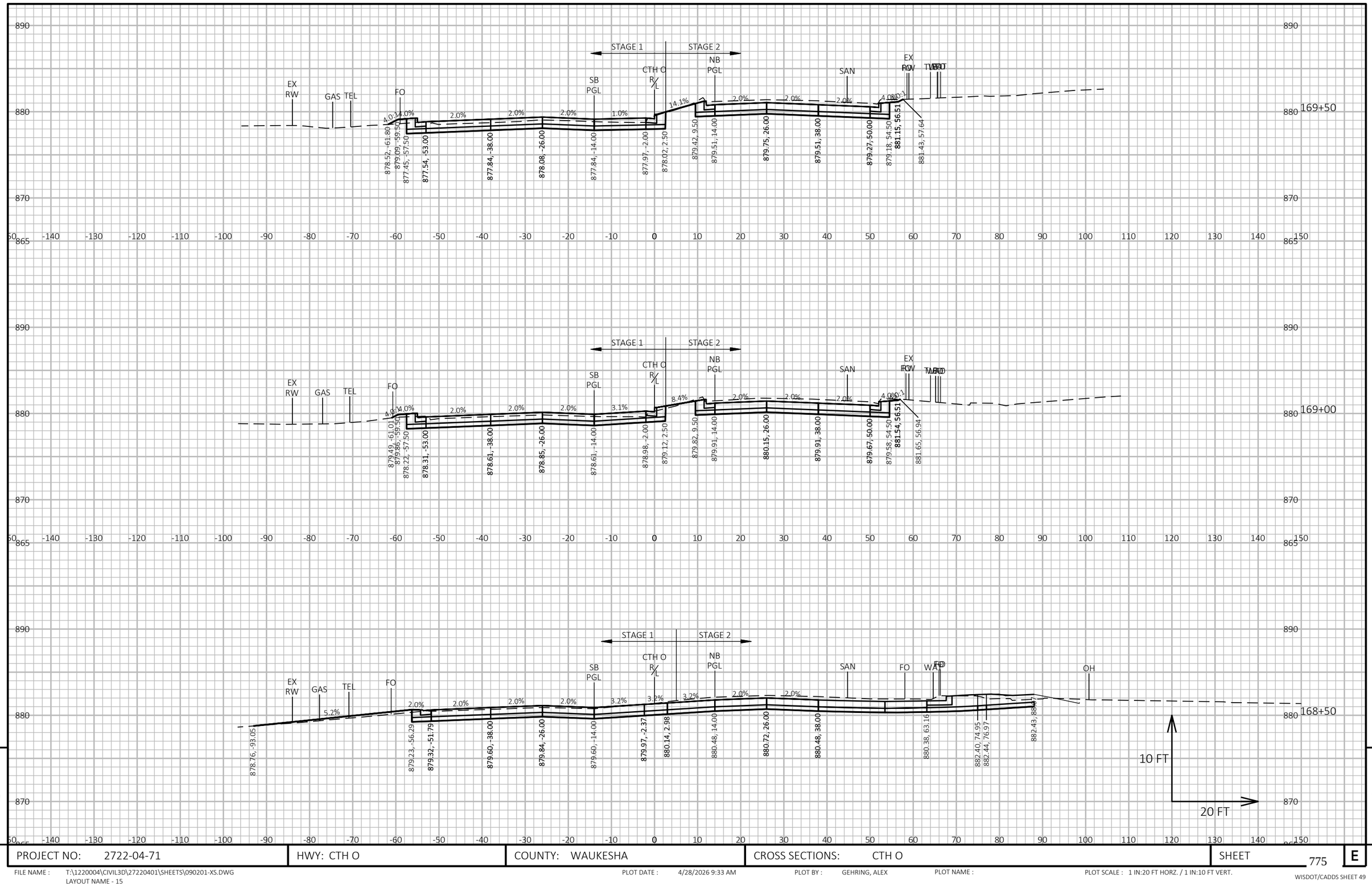


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 774 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 14

PLOT DATE : 4/28/2026 9:33 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 775 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 15

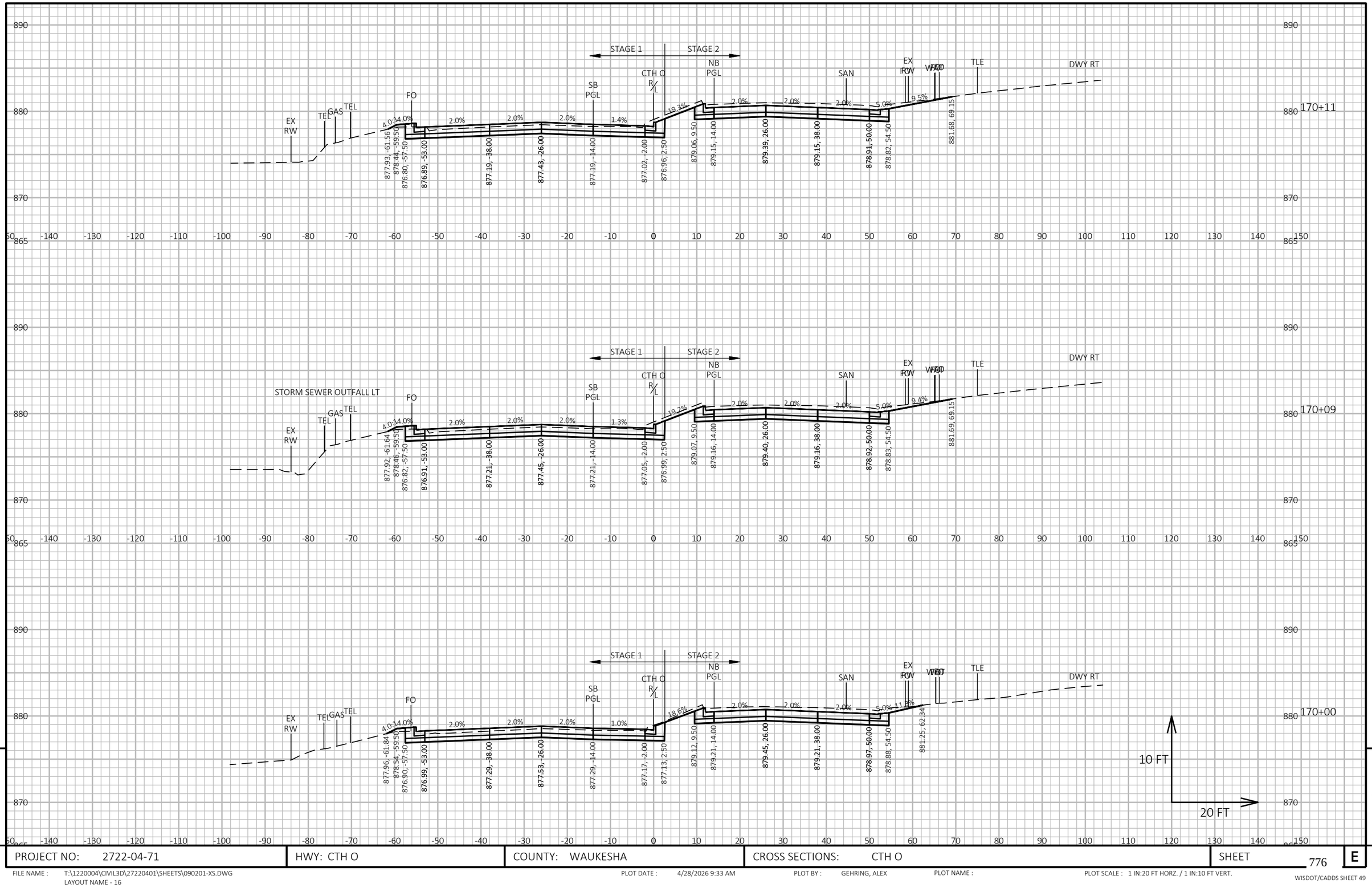
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 776	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 16

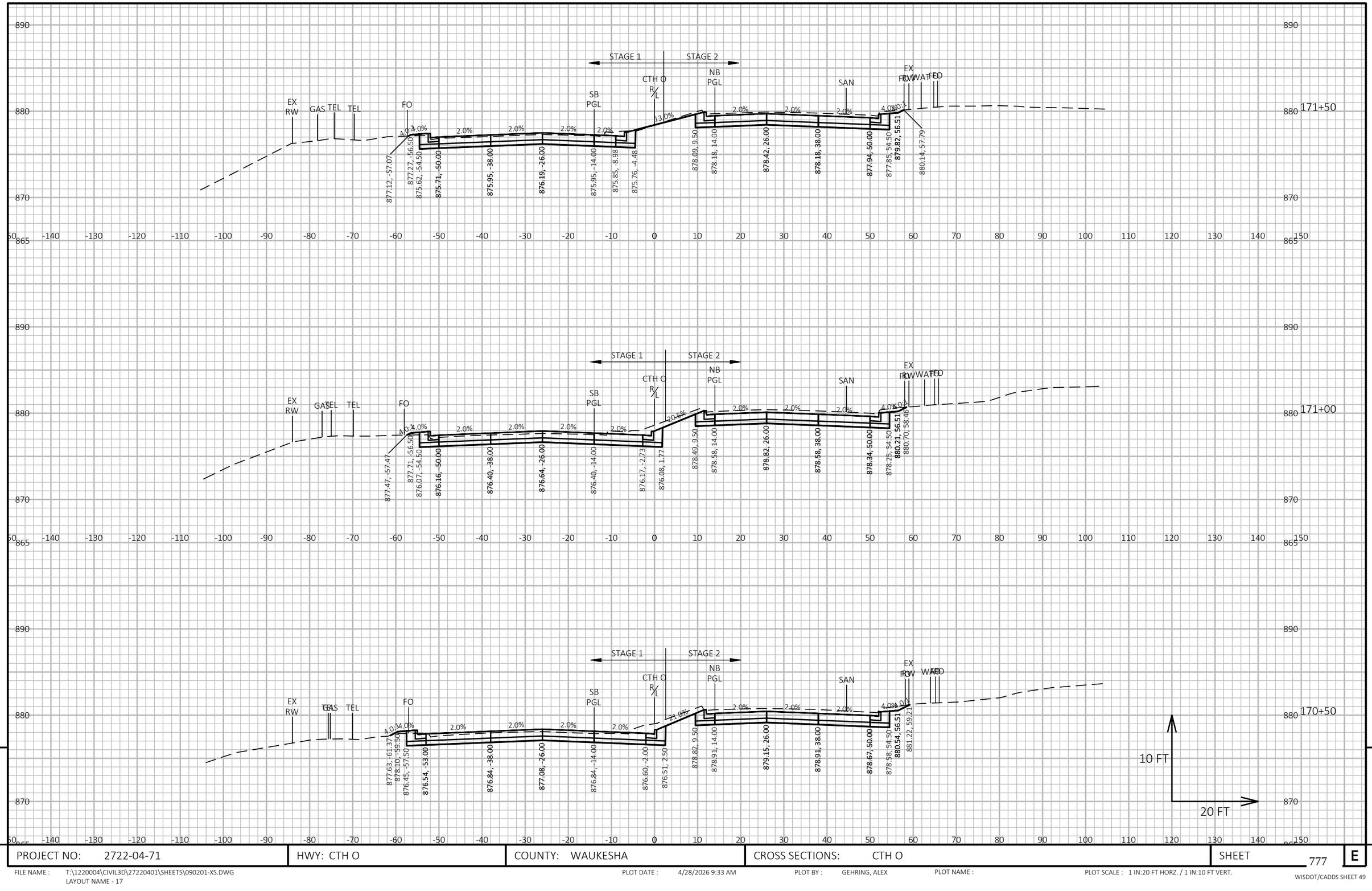
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 777	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 17

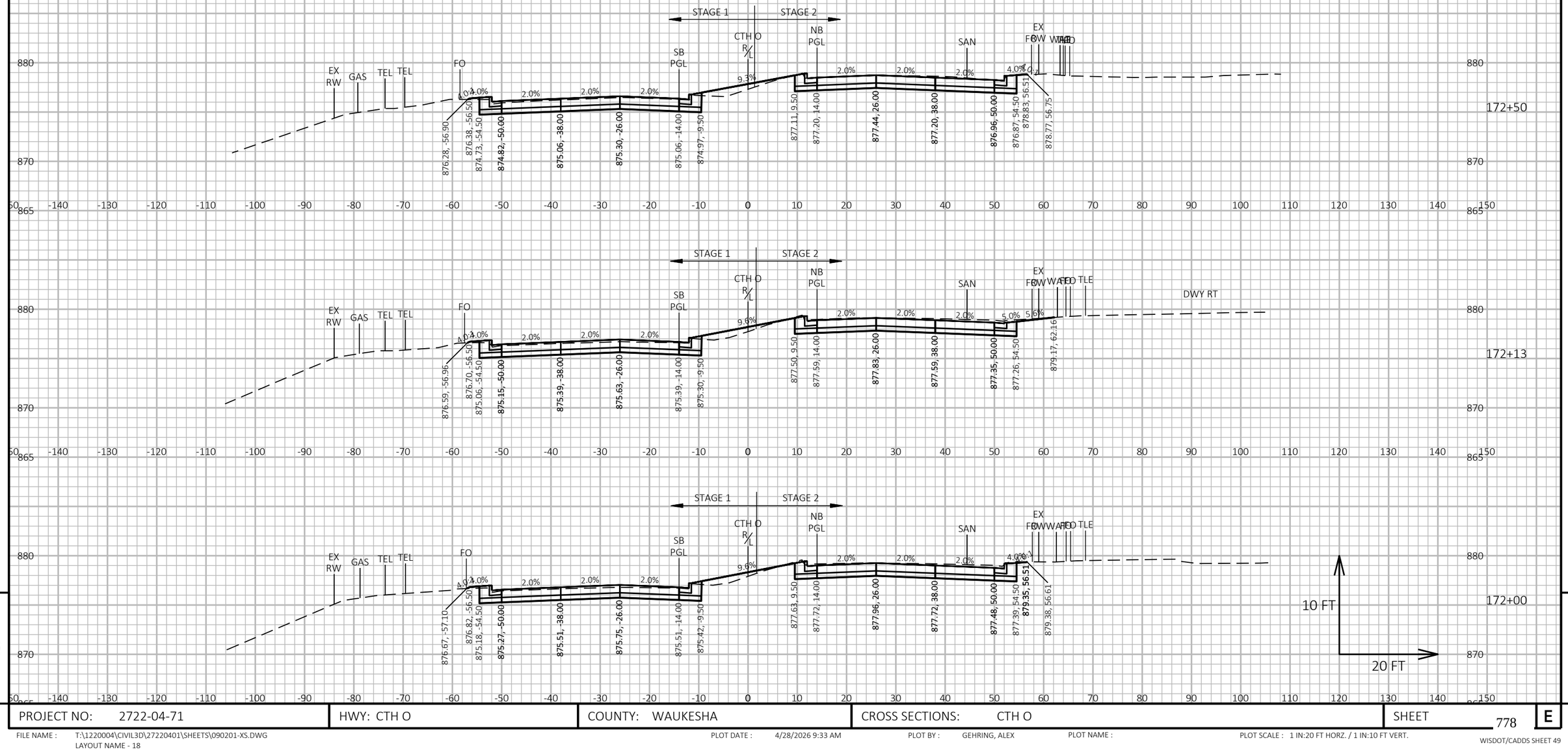
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

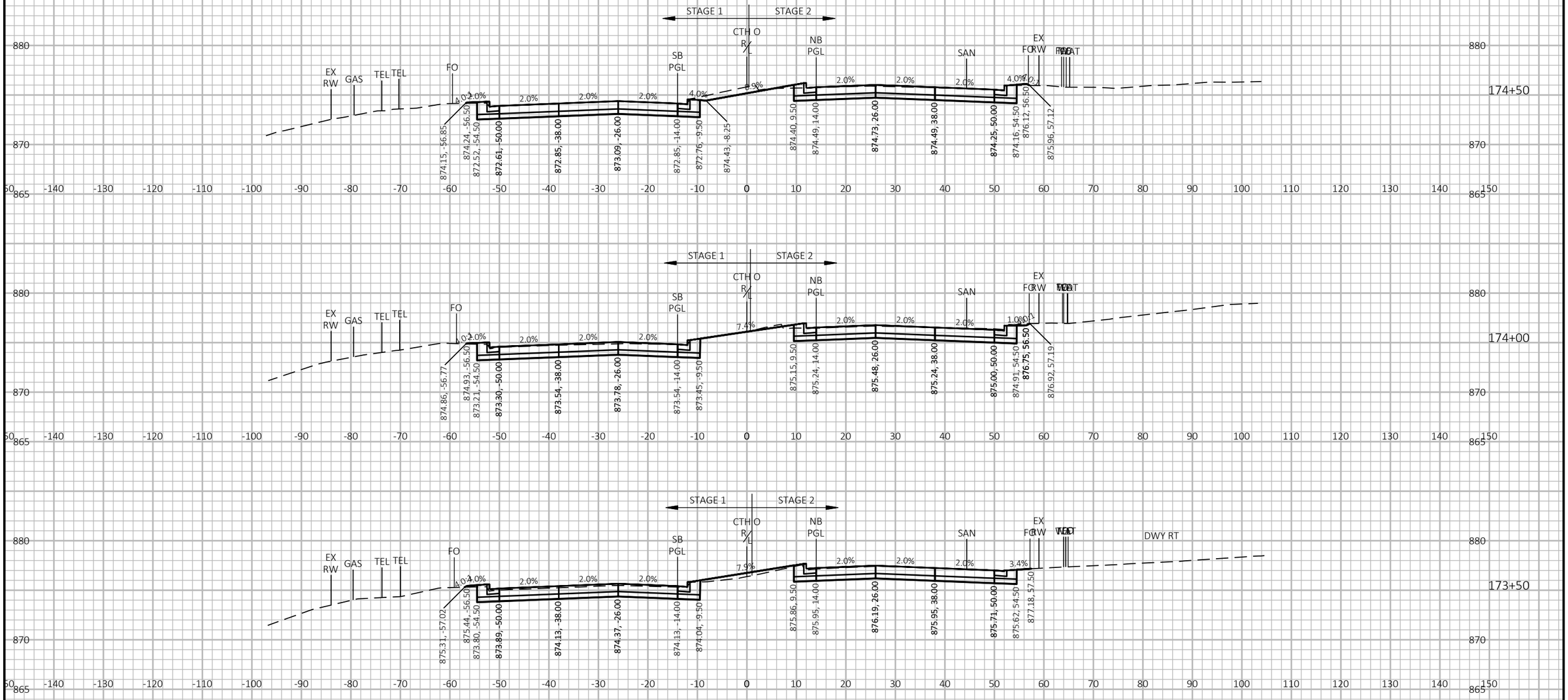


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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 778	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 18
PLOT DATE : 4/28/2026 9:33 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 779	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 19

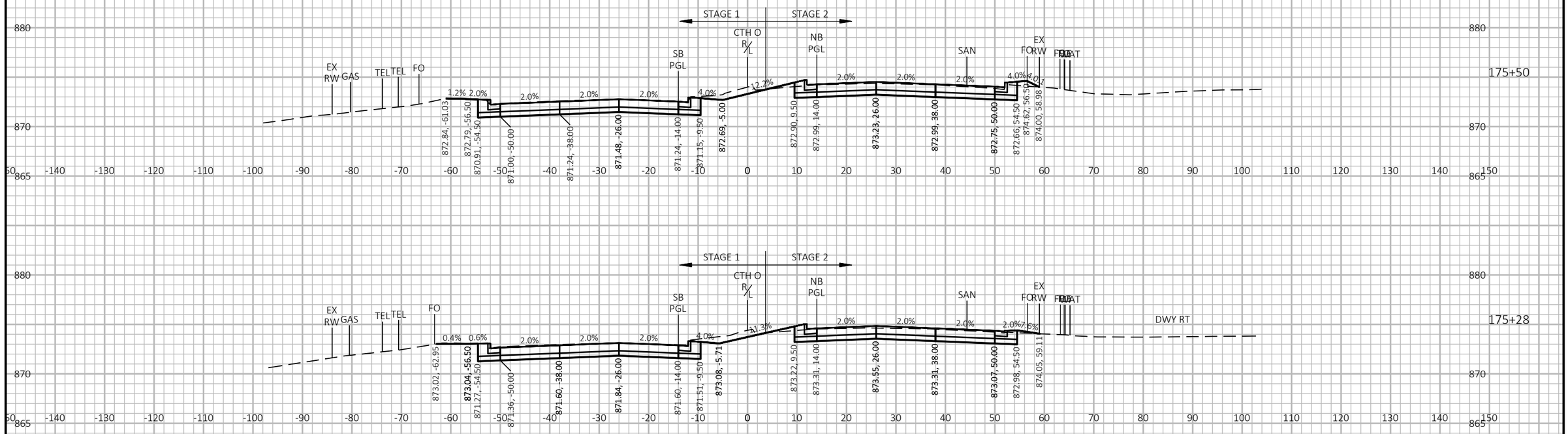
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

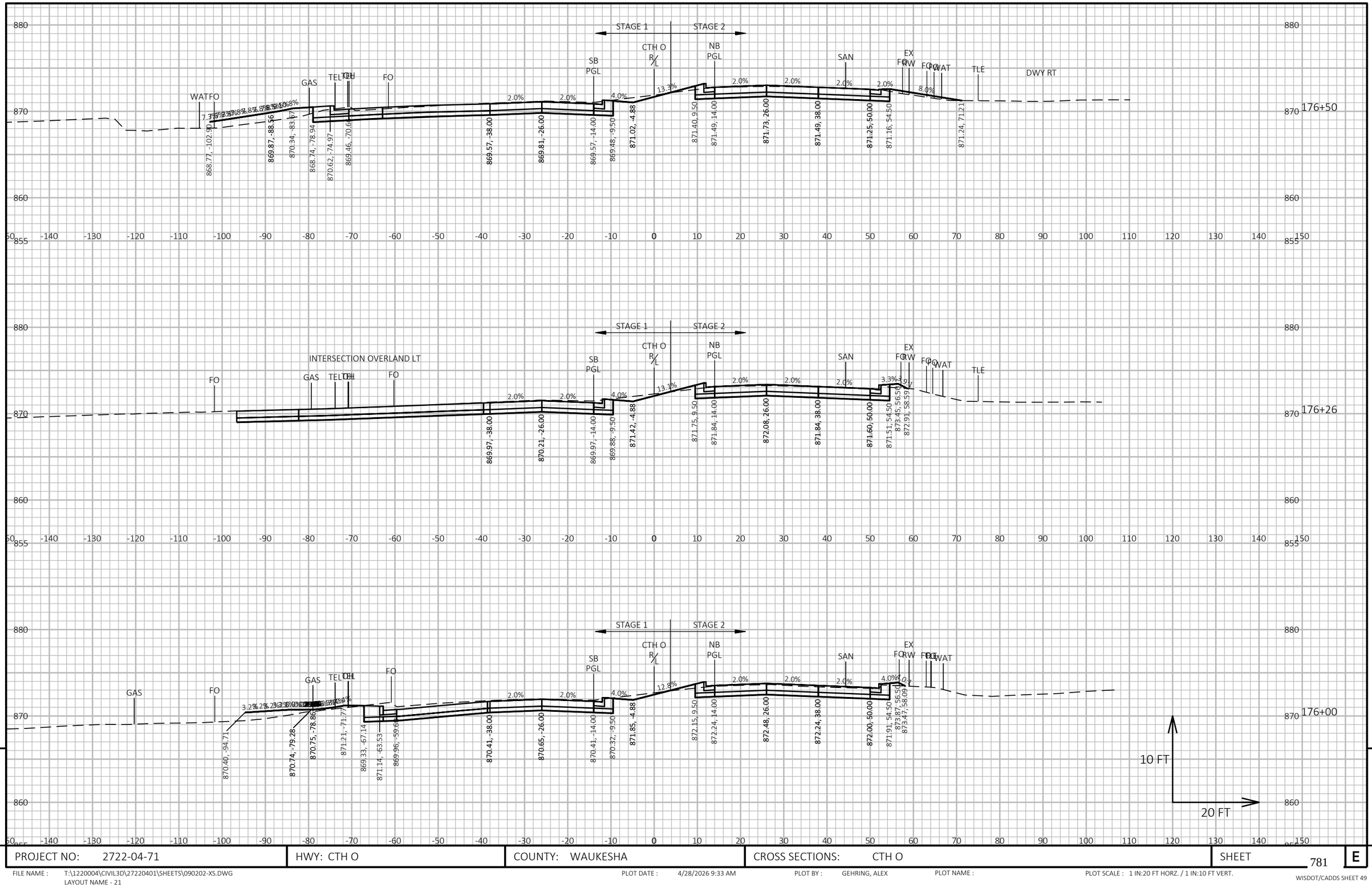


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 780 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 20

PLOT DATE : 4/28/2026 9:33 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

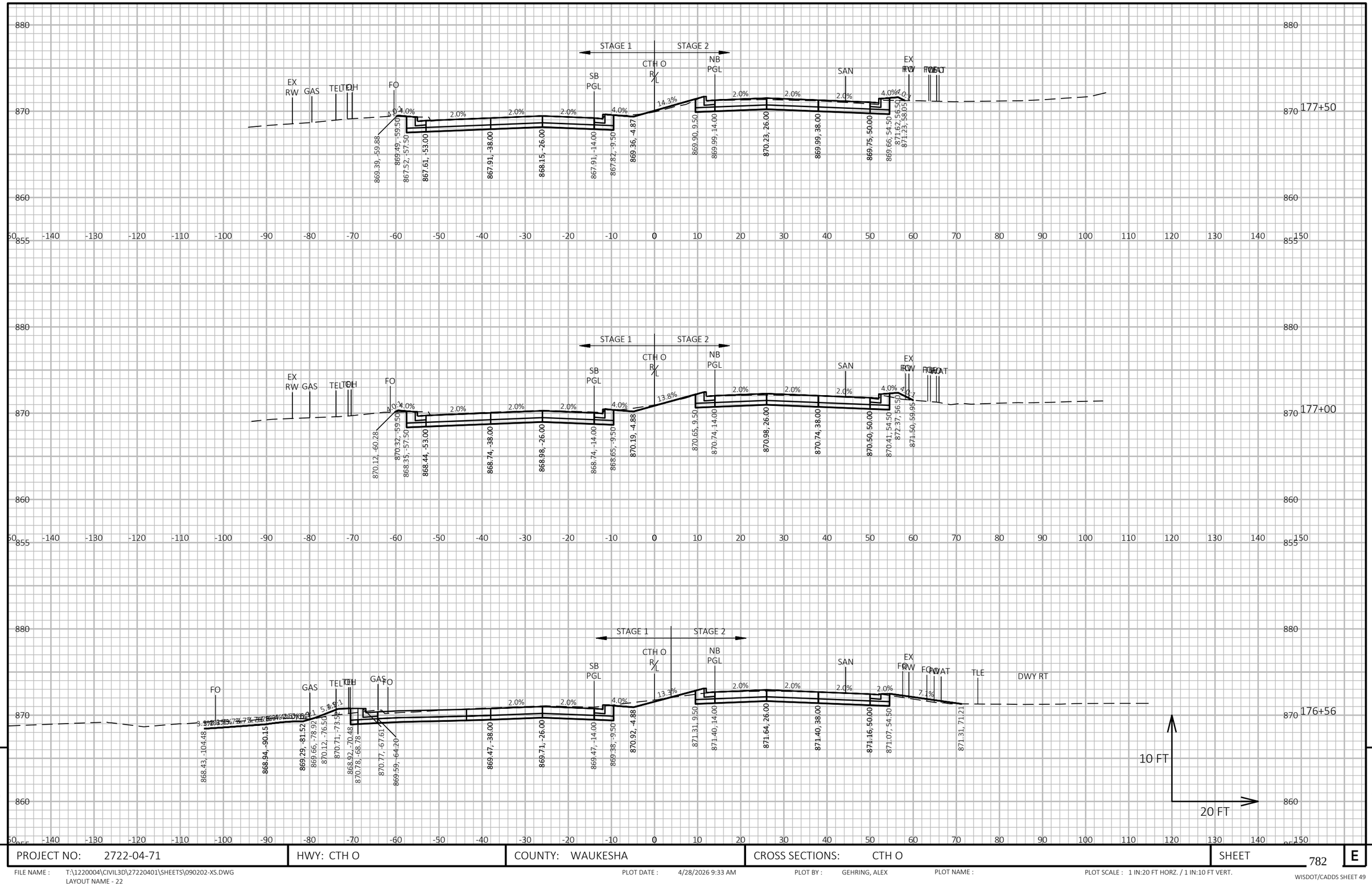


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 781 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 21

PLOT DATE : 4/28/2026 9:33 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 782	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 22

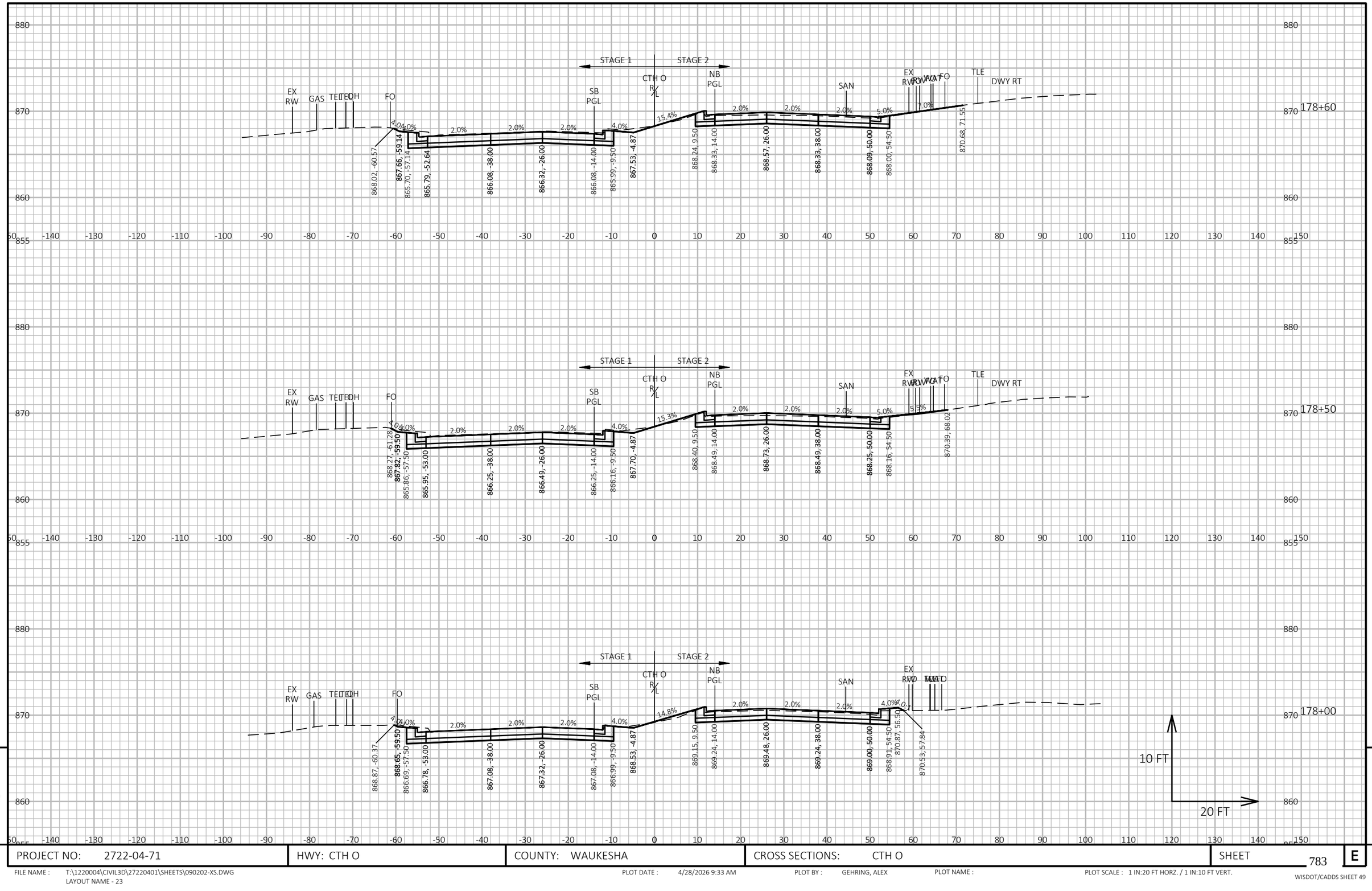
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 783 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 23

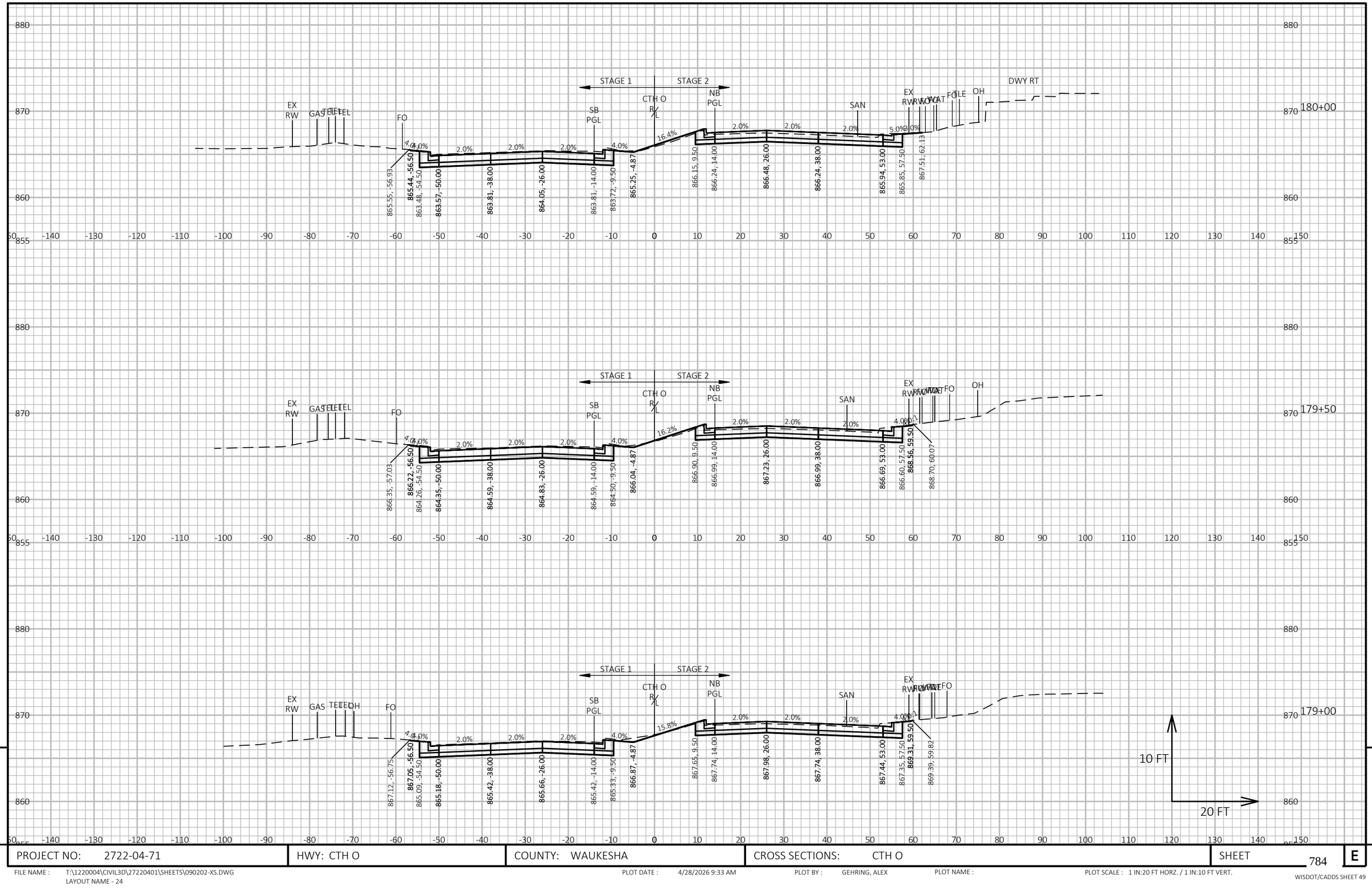
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

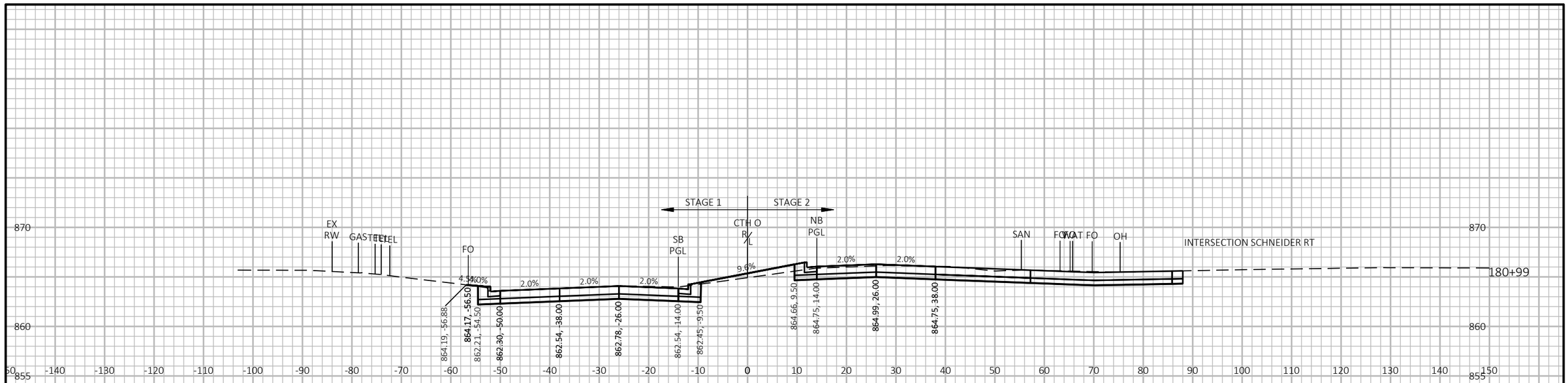


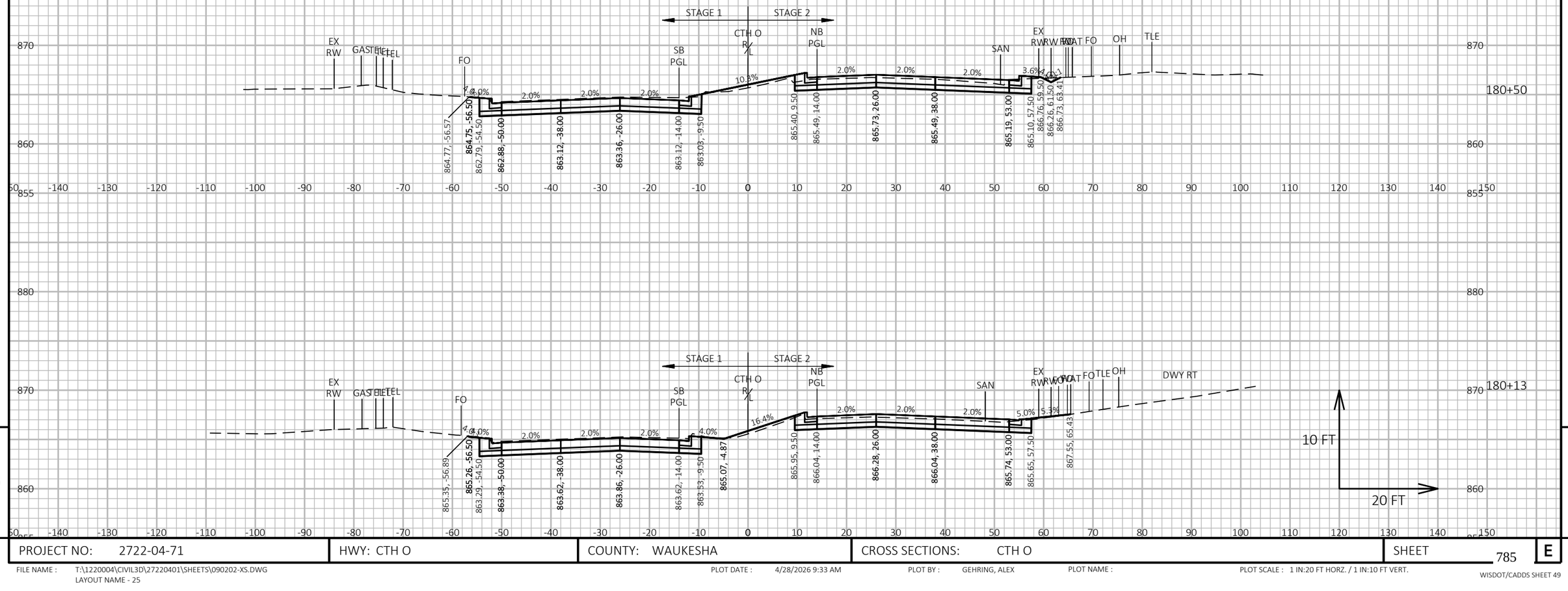
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 784 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 24

PLOT DATE : 4/28/2026 9:33 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 785	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 25

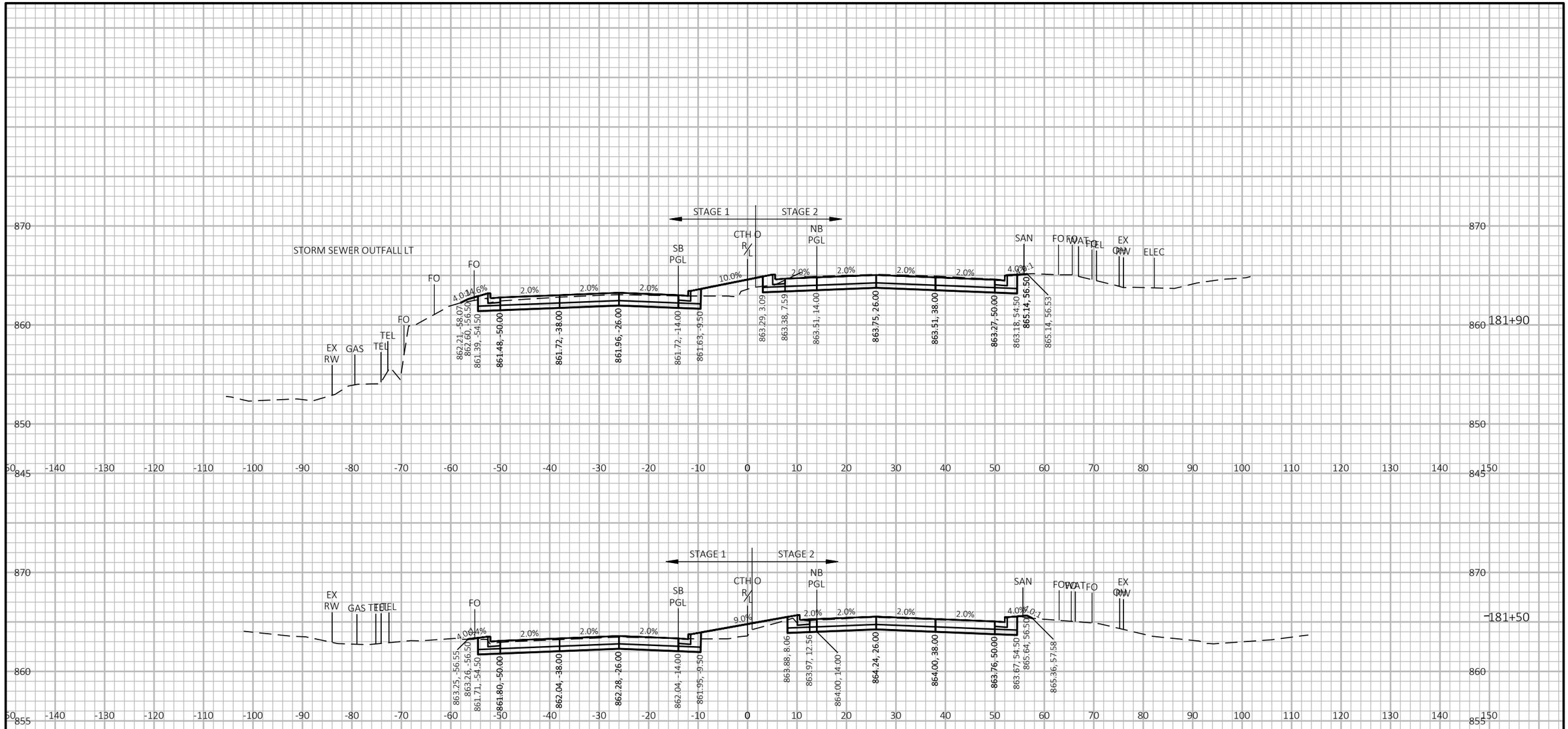
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

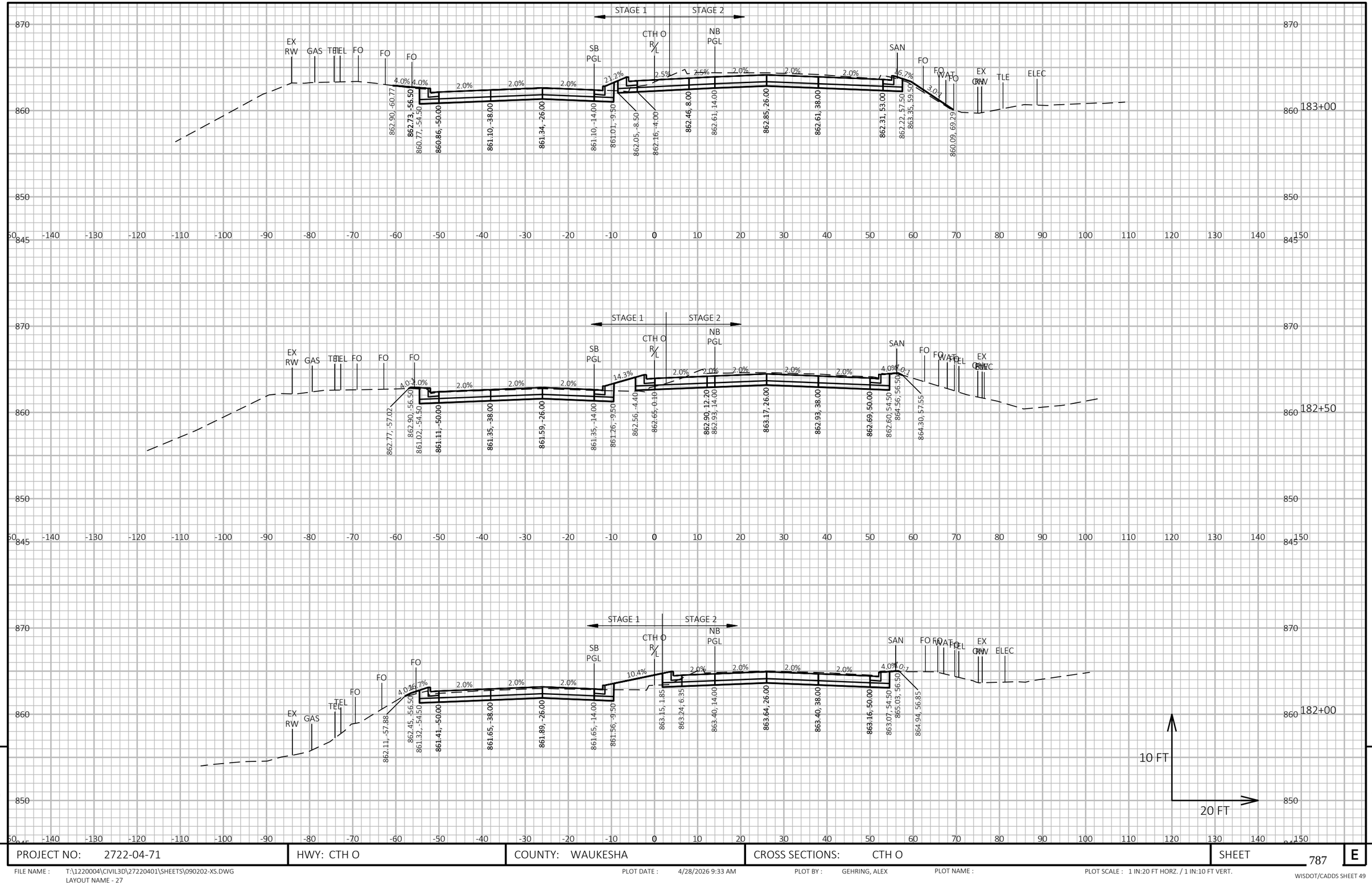


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 786 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 26

PLOT DATE : 4/28/2026 9:33 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 787	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 27

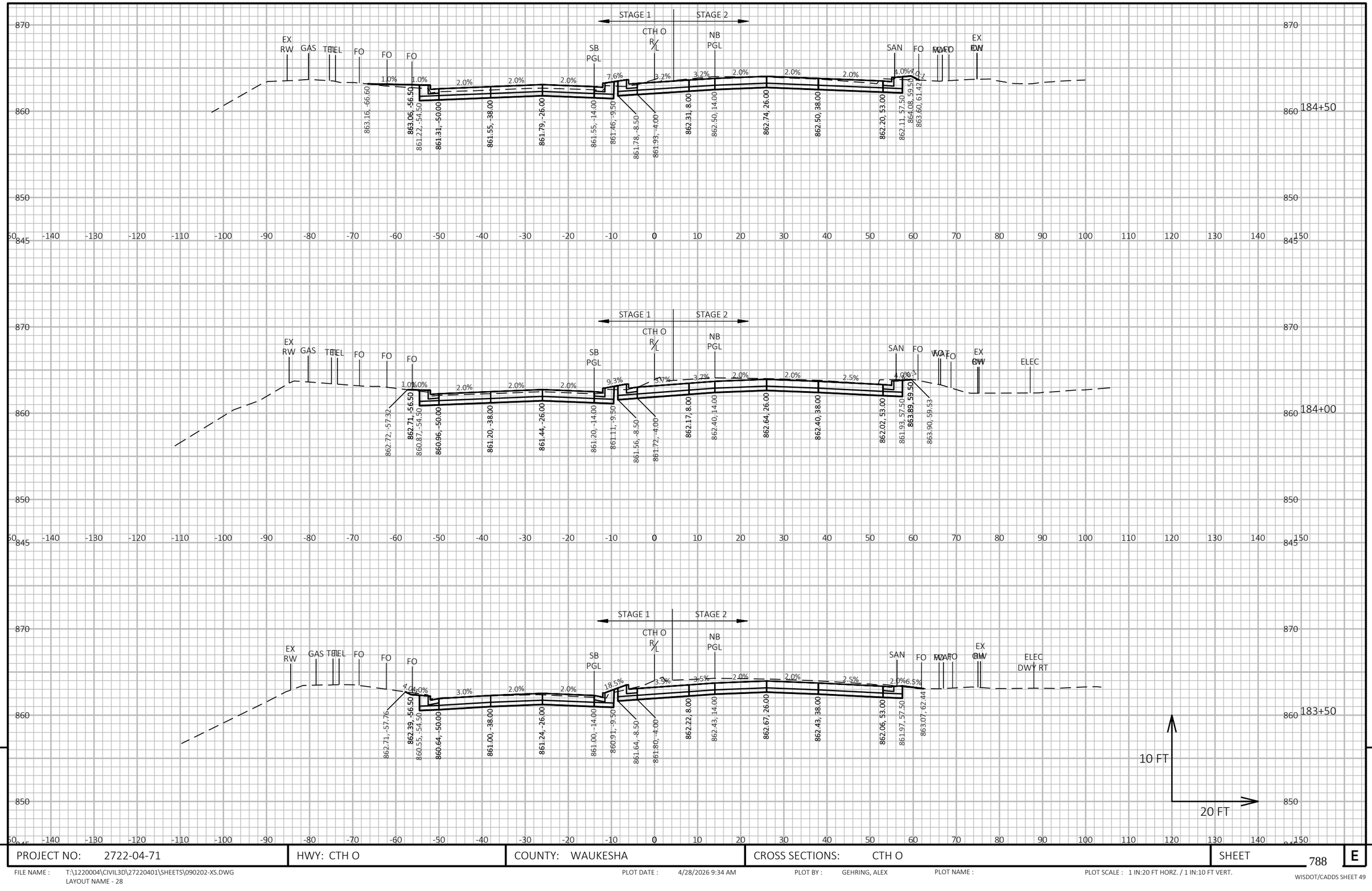
PLOT DATE : 4/28/2026 9:33 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 788	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 28

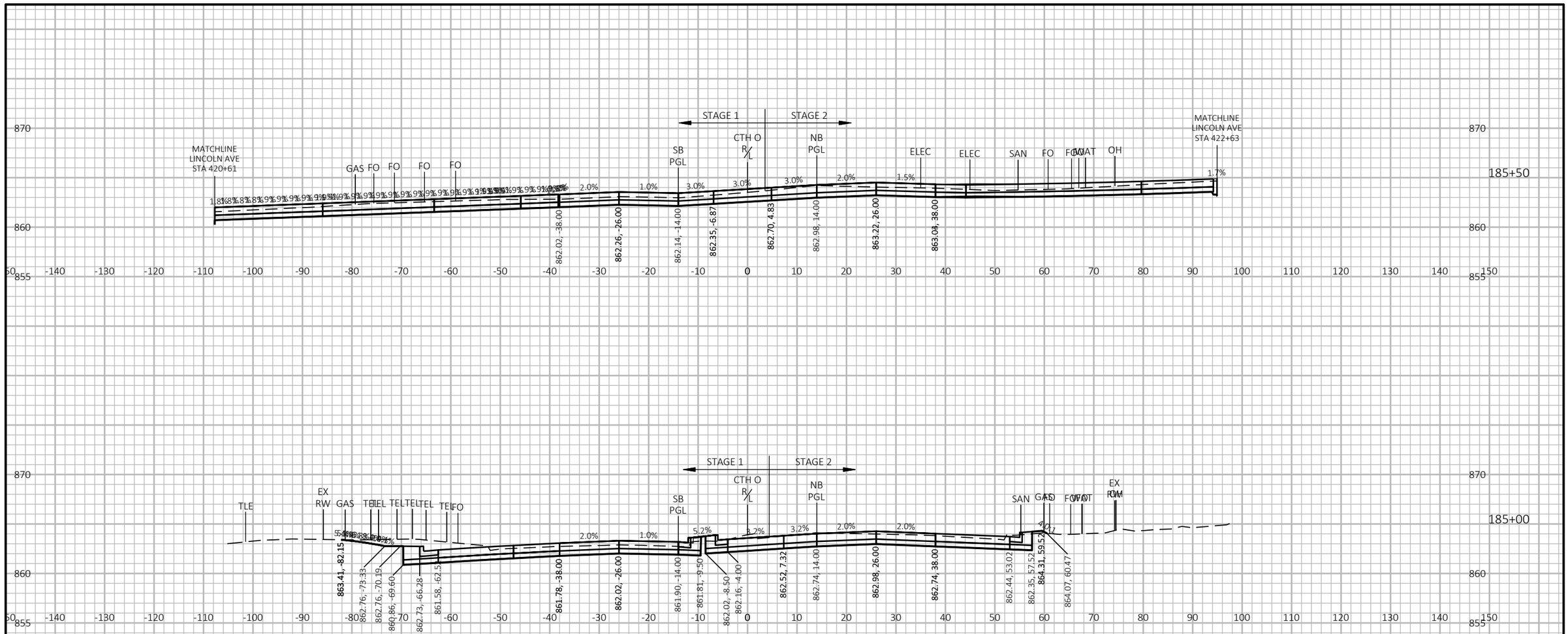
PLOT DATE : 4/28/2026 9:34 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 789	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 29

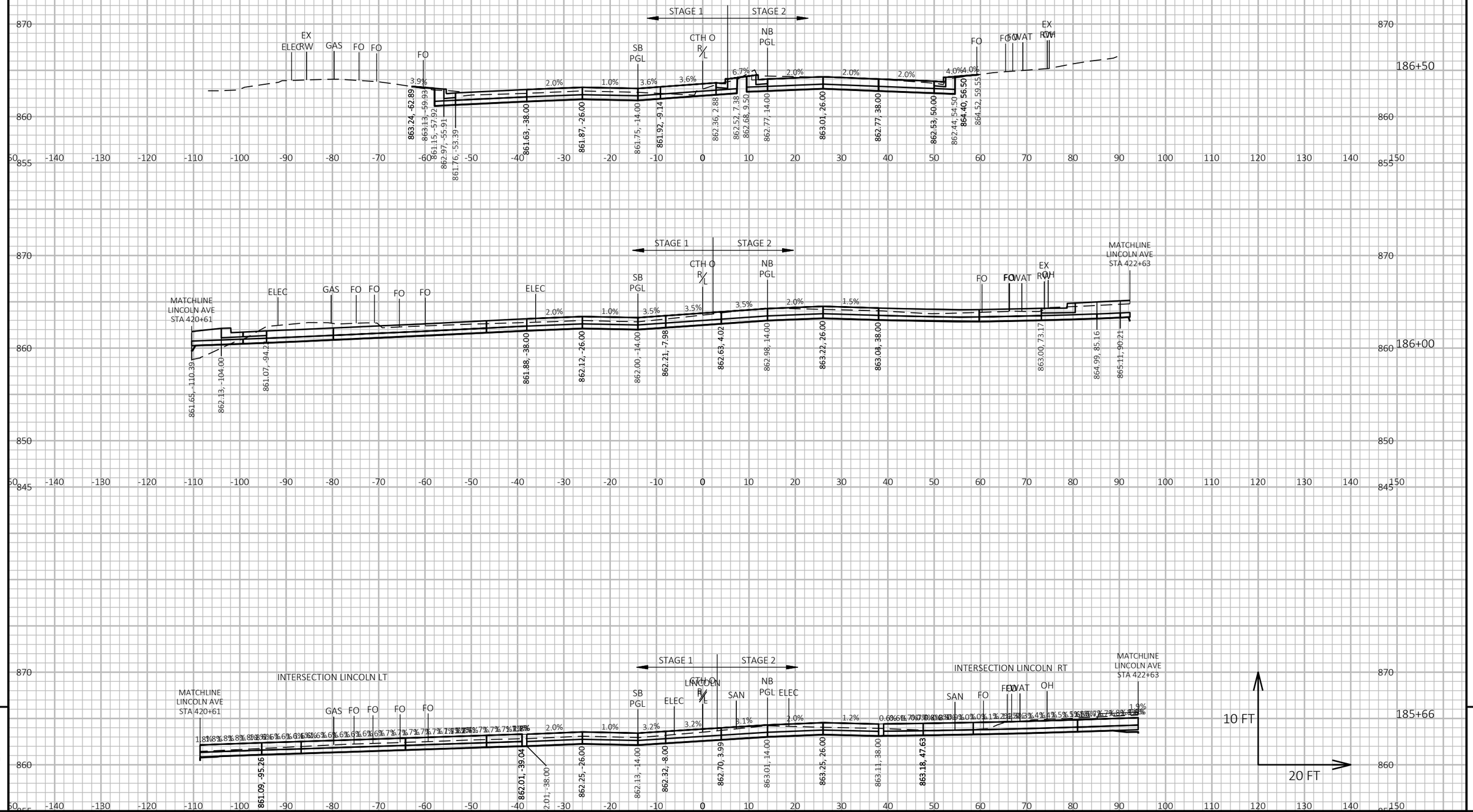
PLOT DATE : 4/28/2026 9:34 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 790	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 30

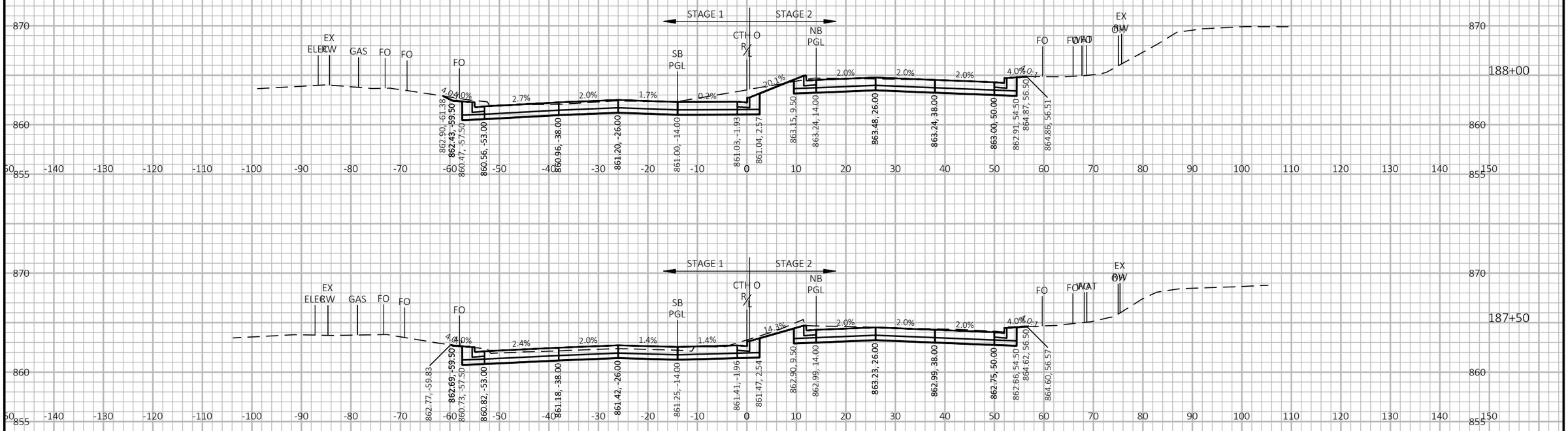
PLOT DATE : 4/28/2026 9:34 AM

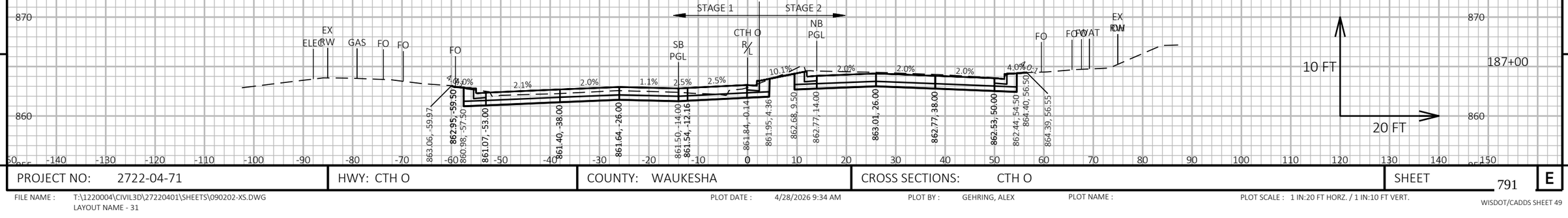
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



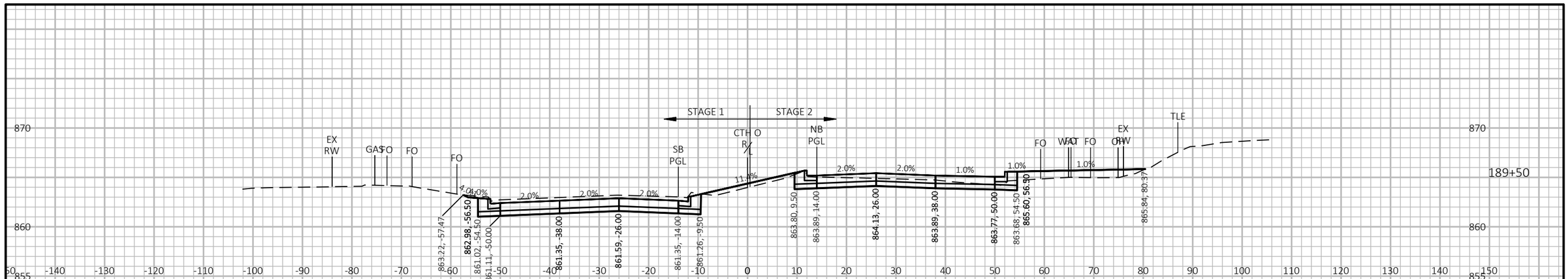


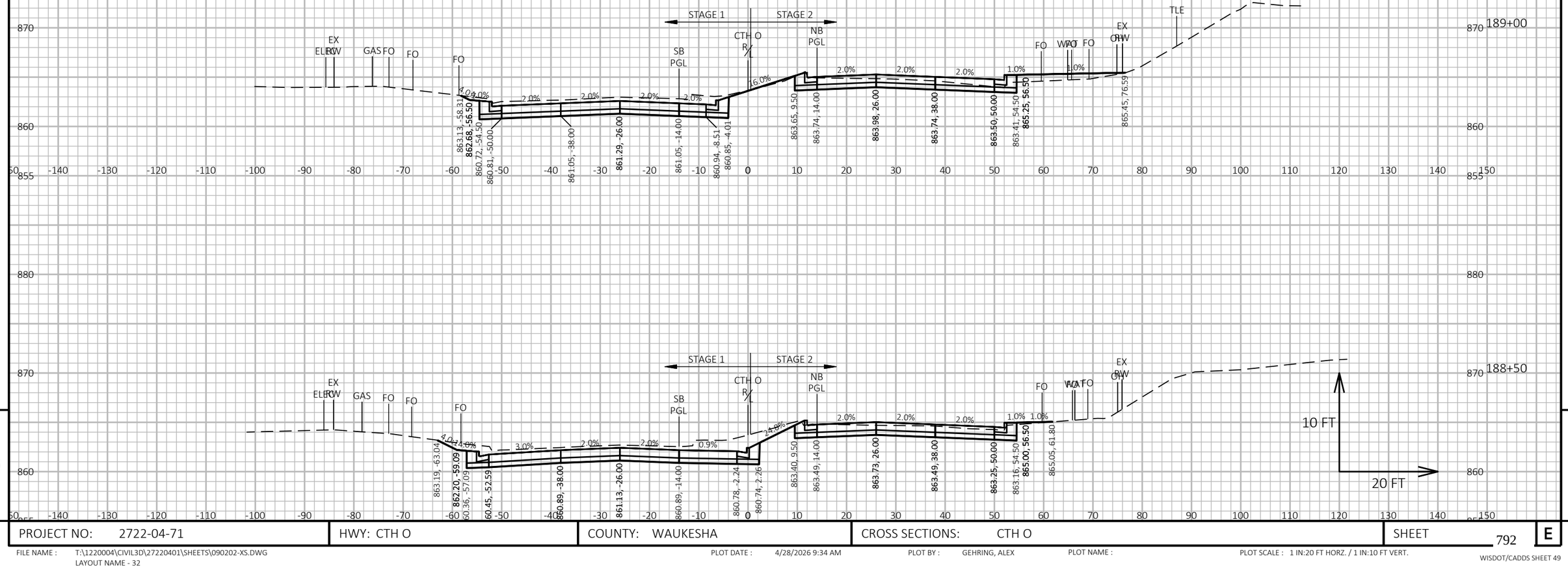
9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 791	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 31
PLOT DATE : 4/28/2026 9:34 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



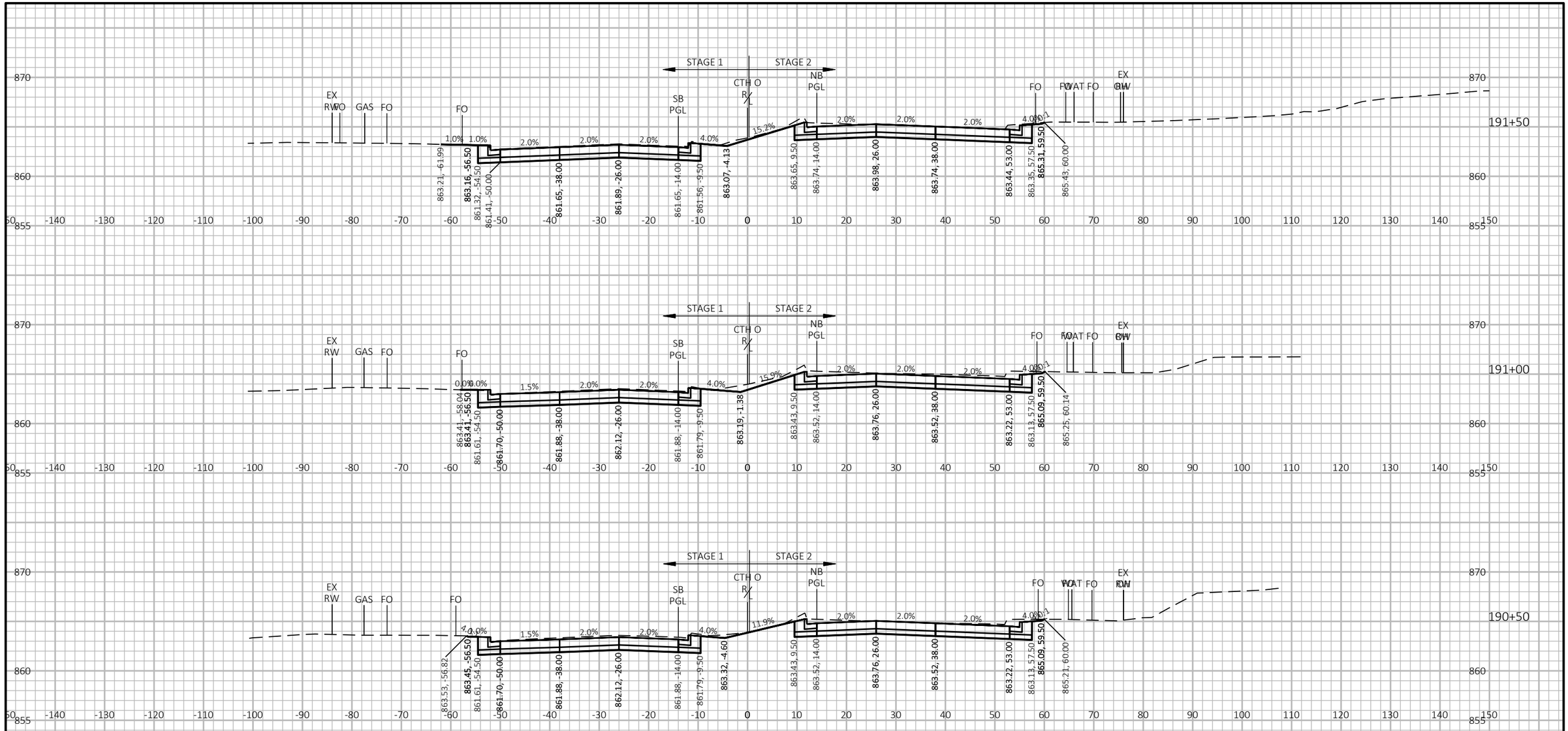


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 792	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 32

PLOT DATE : 4/28/2026 9:34 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 793	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 33

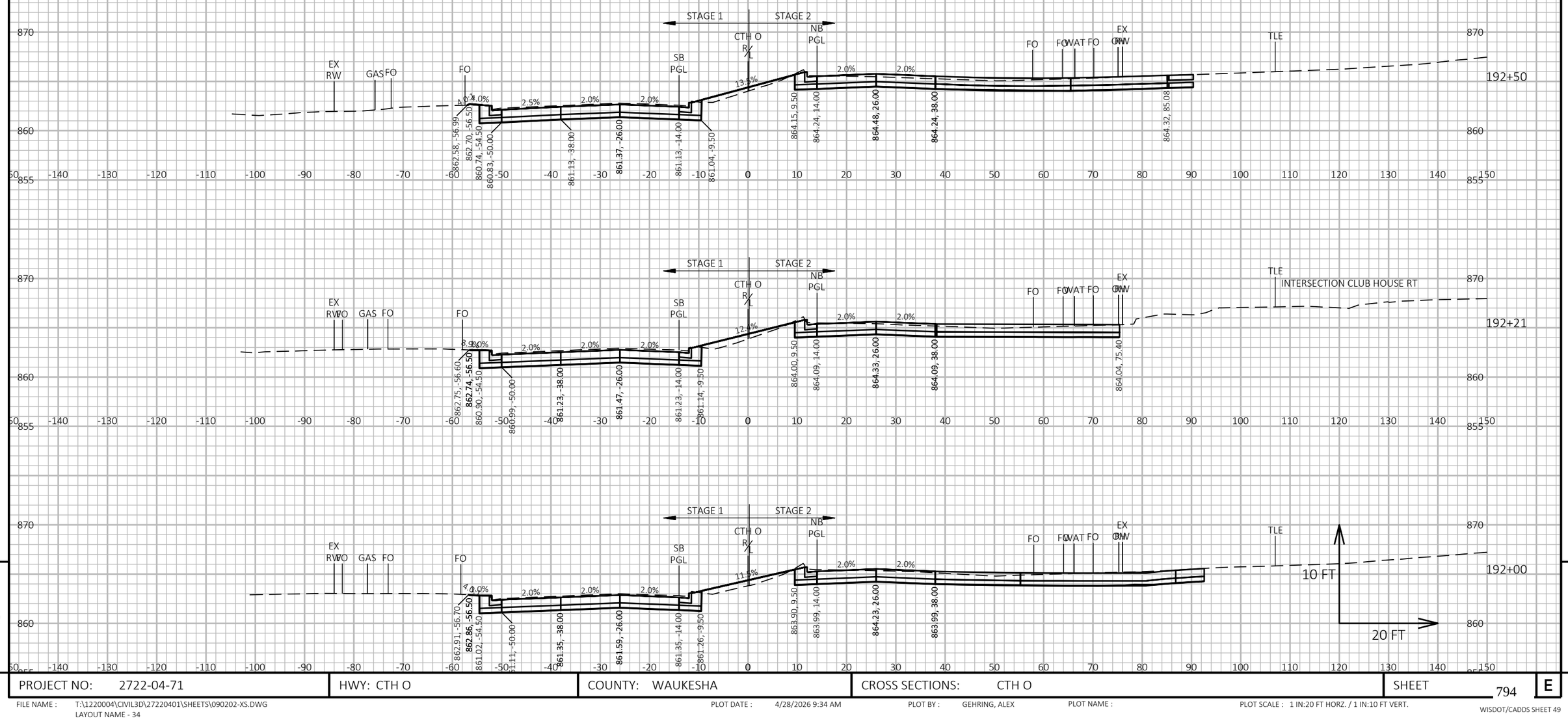
PLOT DATE : 4/28/2026 9:34 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 794 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 34

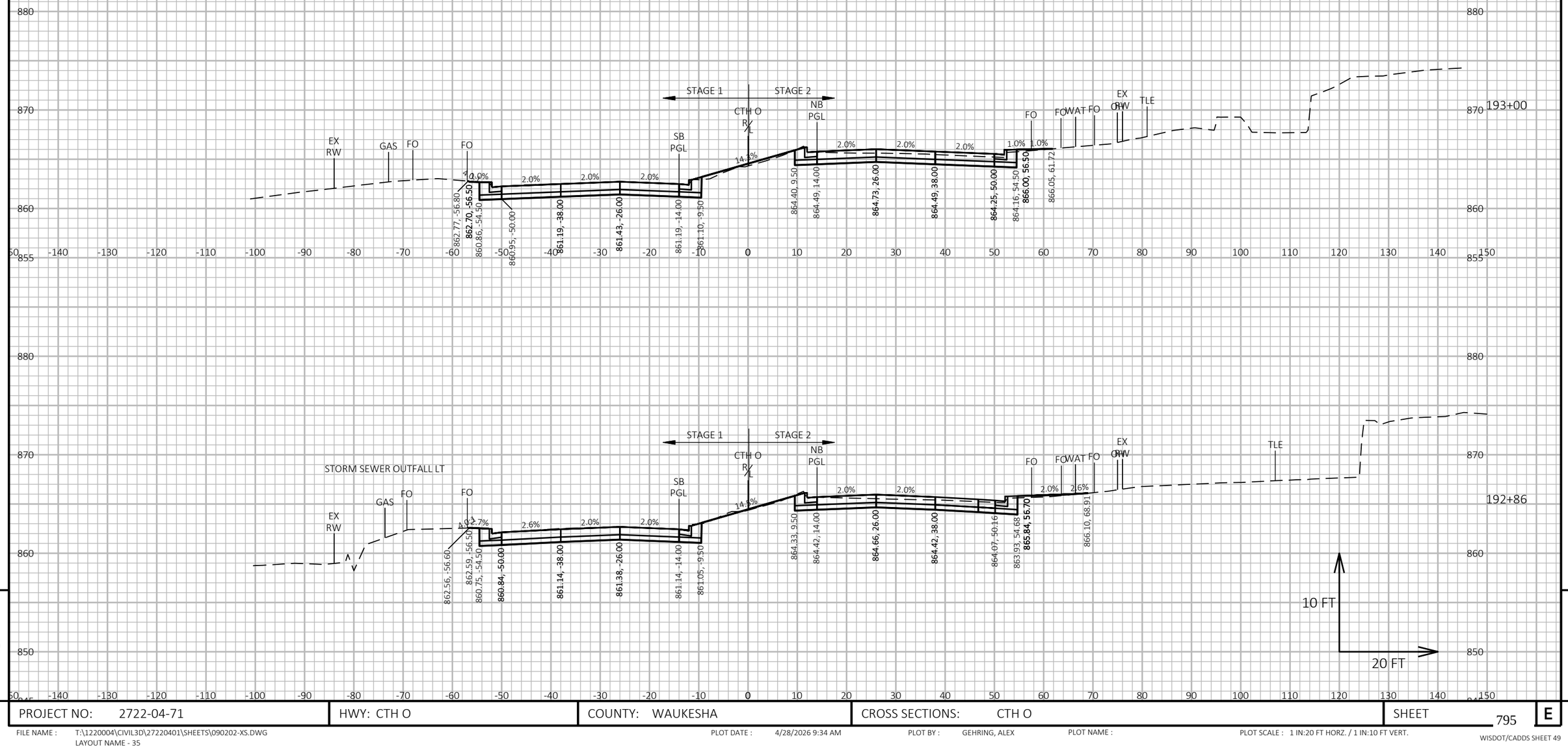
PLOT DATE : 4/28/2026 9:34 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



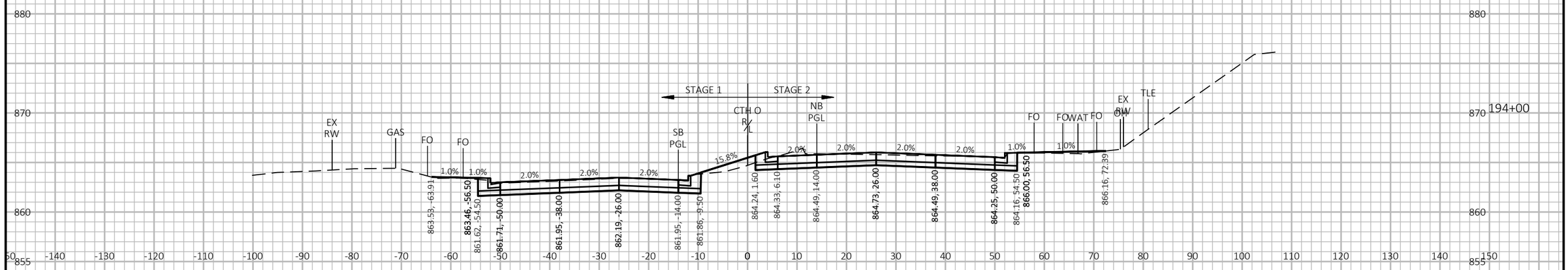
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 795	E

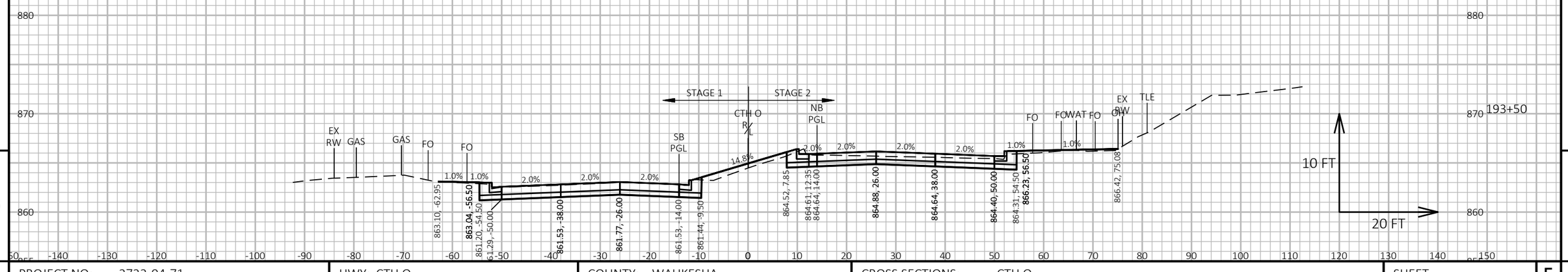
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 35

PLOT DATE : 4/28/2026 9:34 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 796	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 36

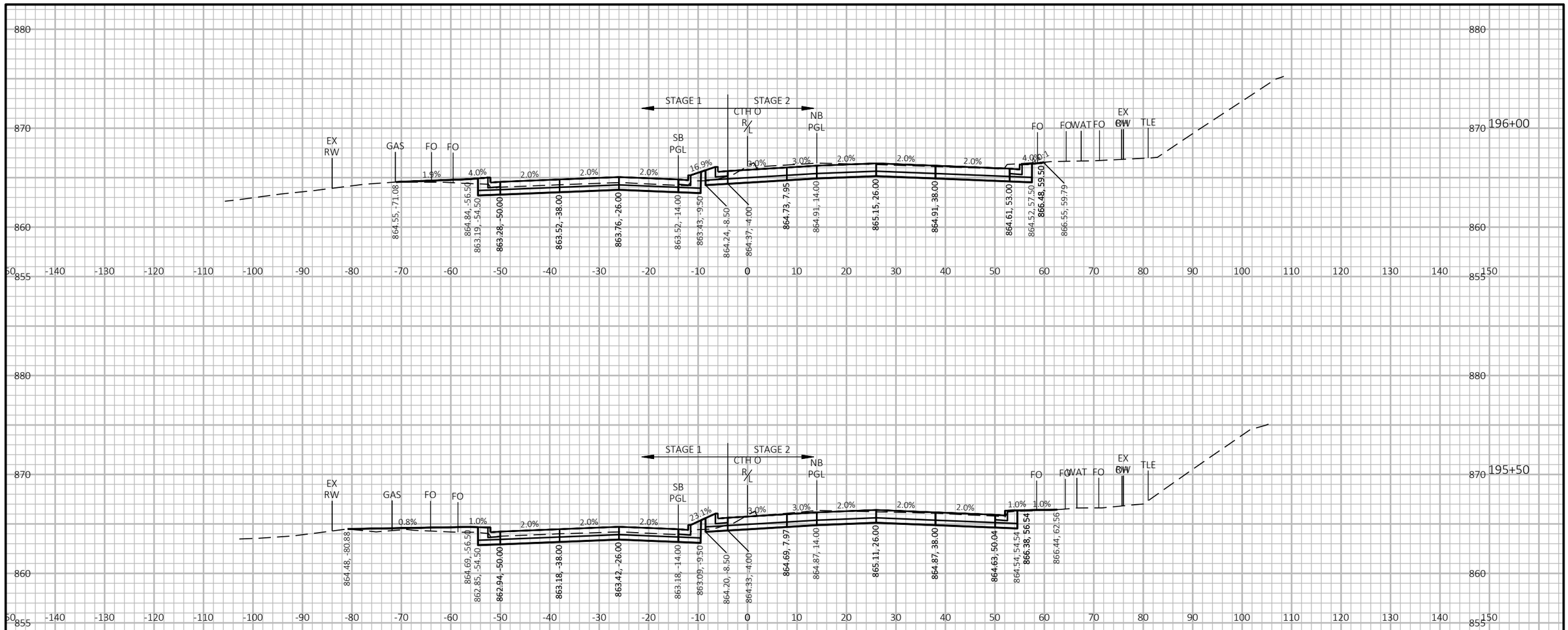
PLOT DATE : 4/28/2026 9:34 AM

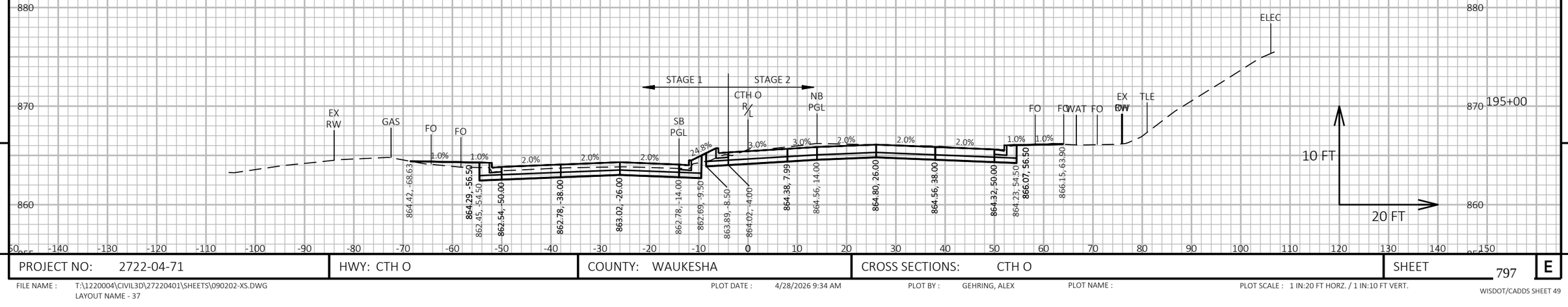
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



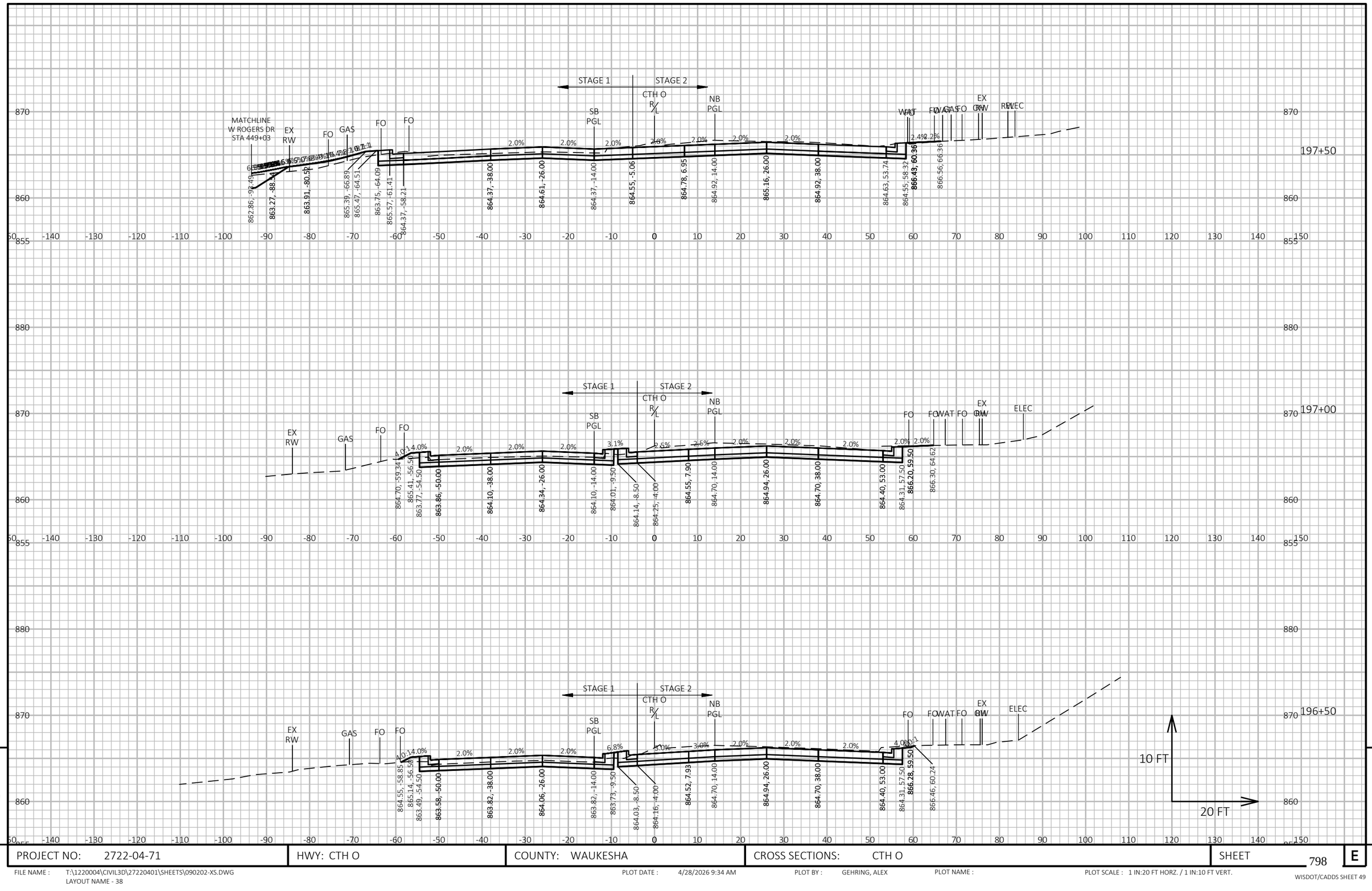


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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 797	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 37
PLOT DATE : 4/28/2026 9:34 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 798	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 38

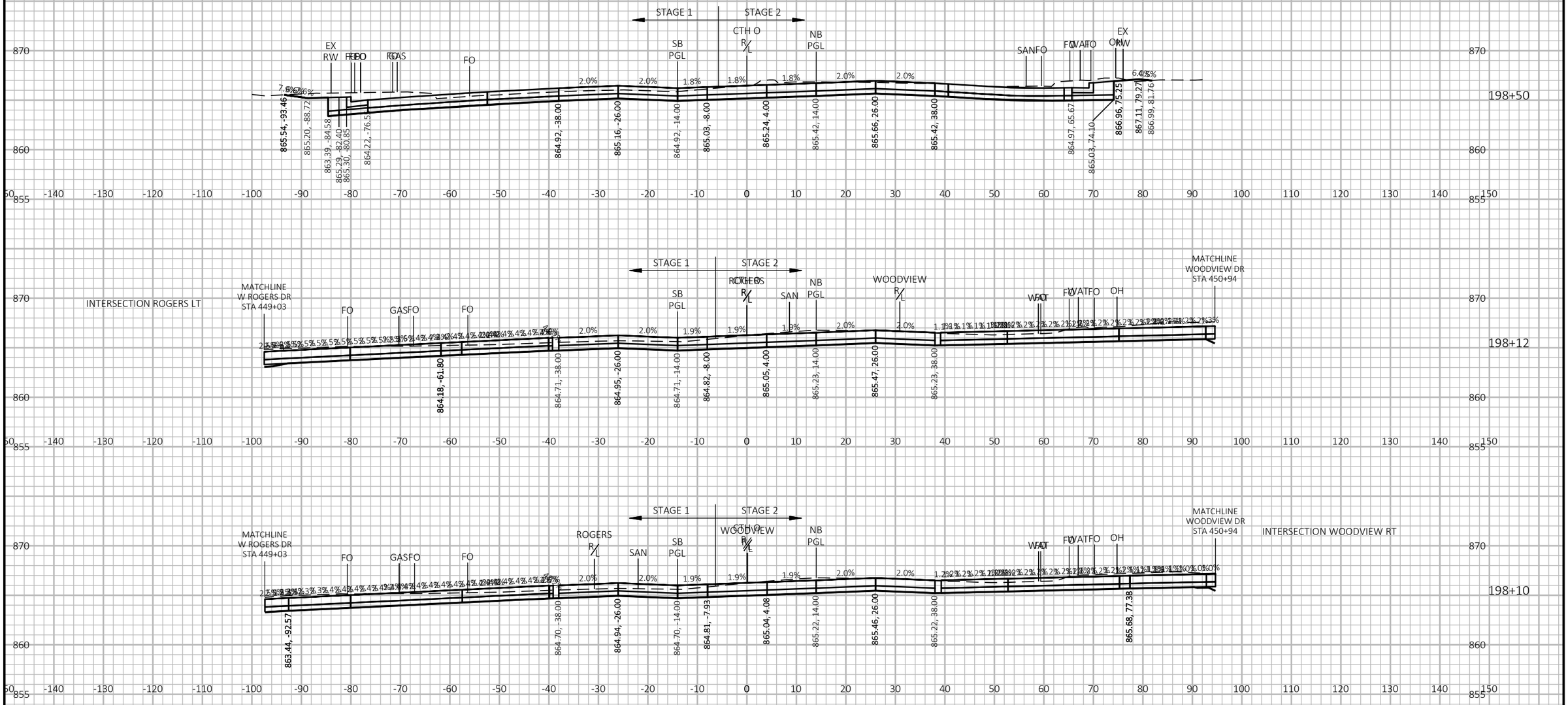
PLOT DATE : 4/28/2026 9:34 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 799

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 39

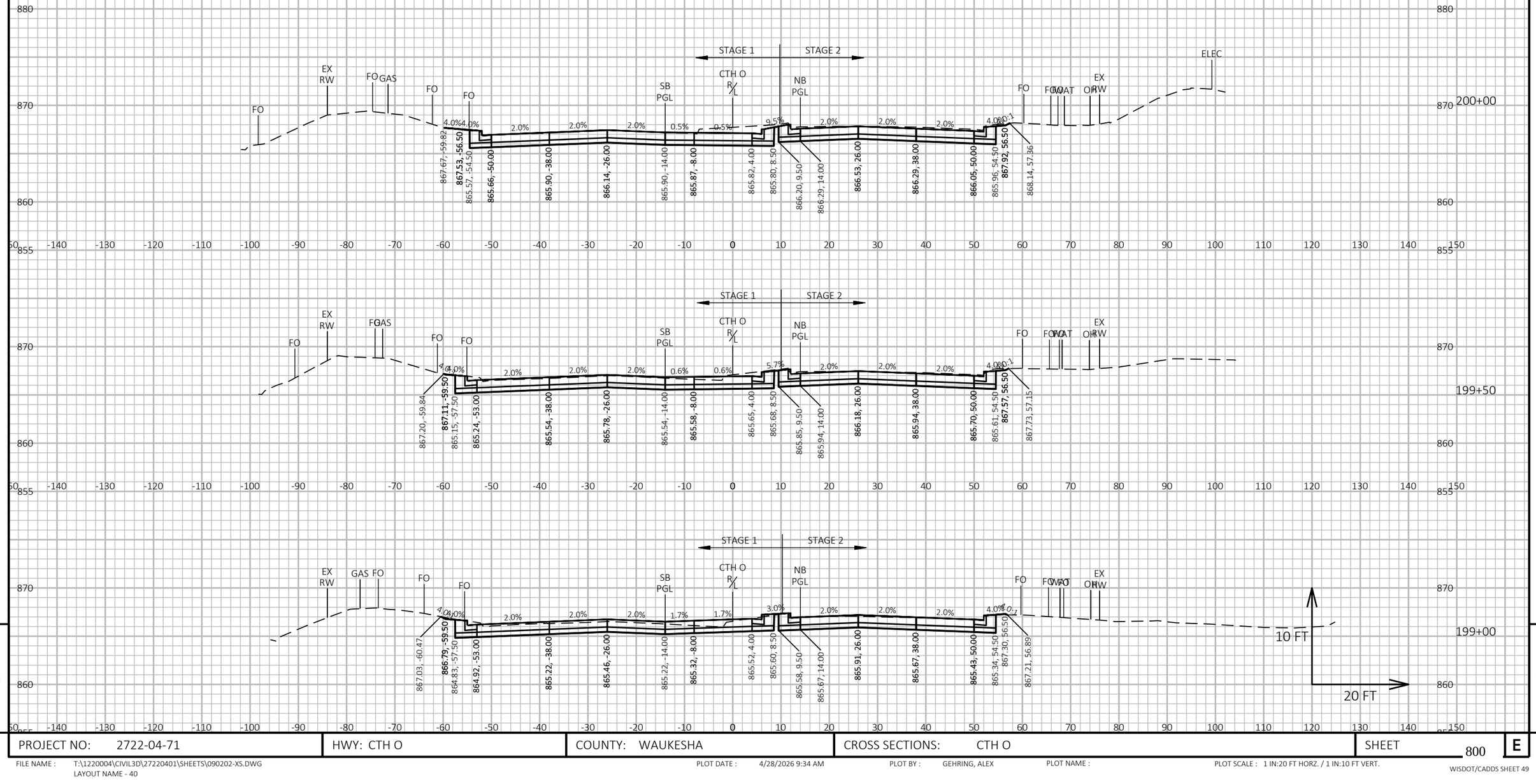
PLOT DATE : 4/28/2026 9:34 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 800 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 40

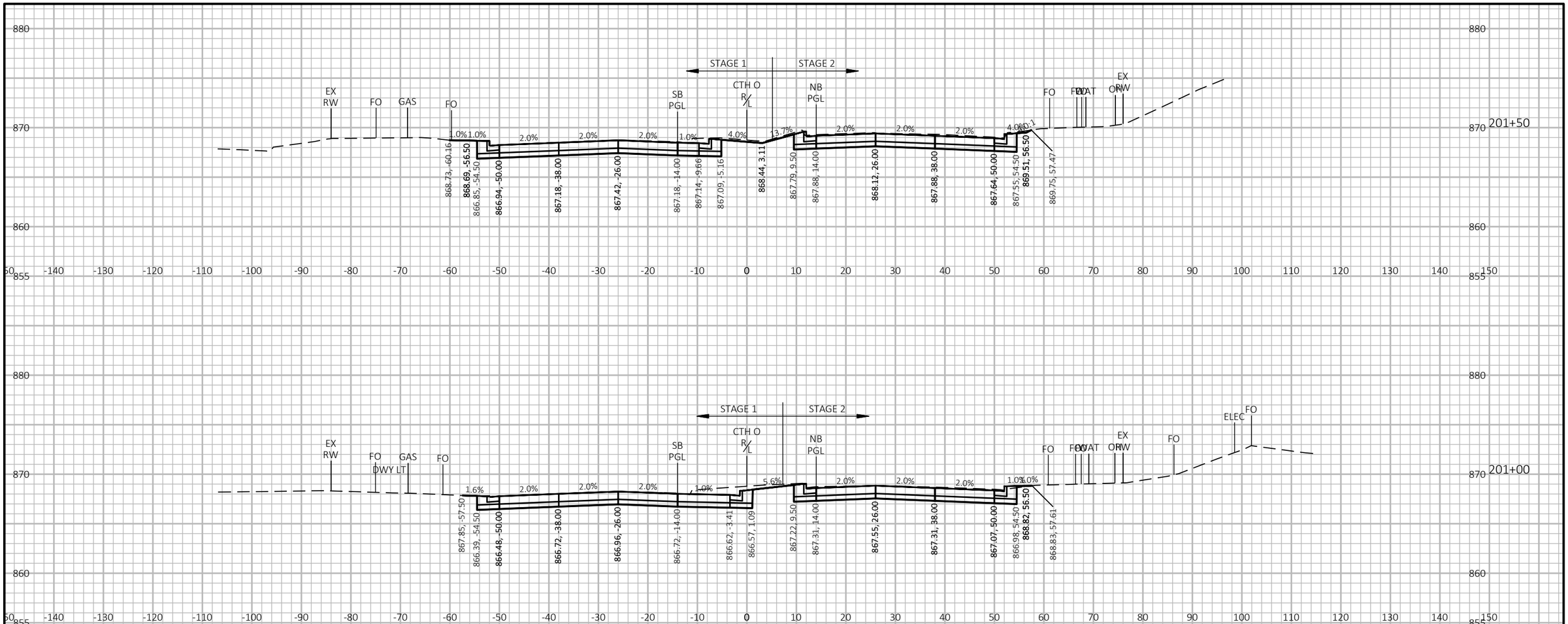
PLOT DATE : 4/28/2026 9:34 AM

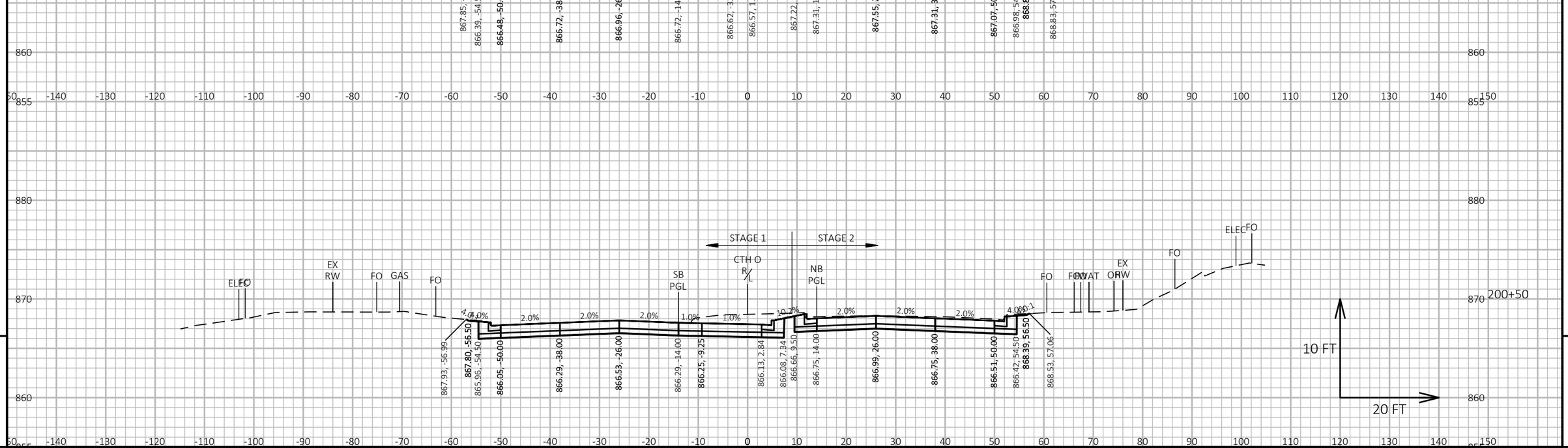
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 801	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 41

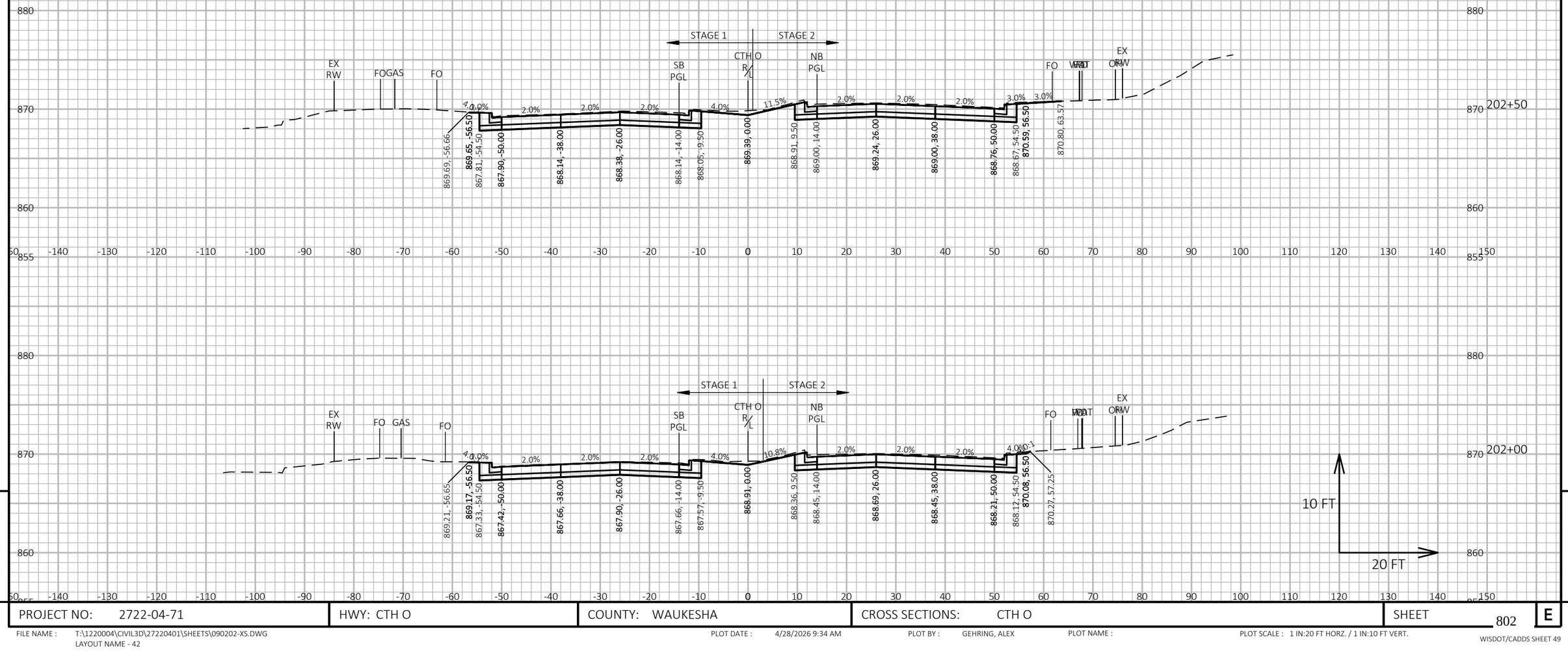
PLOT DATE : 4/28/2026 9:34 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 802 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 42

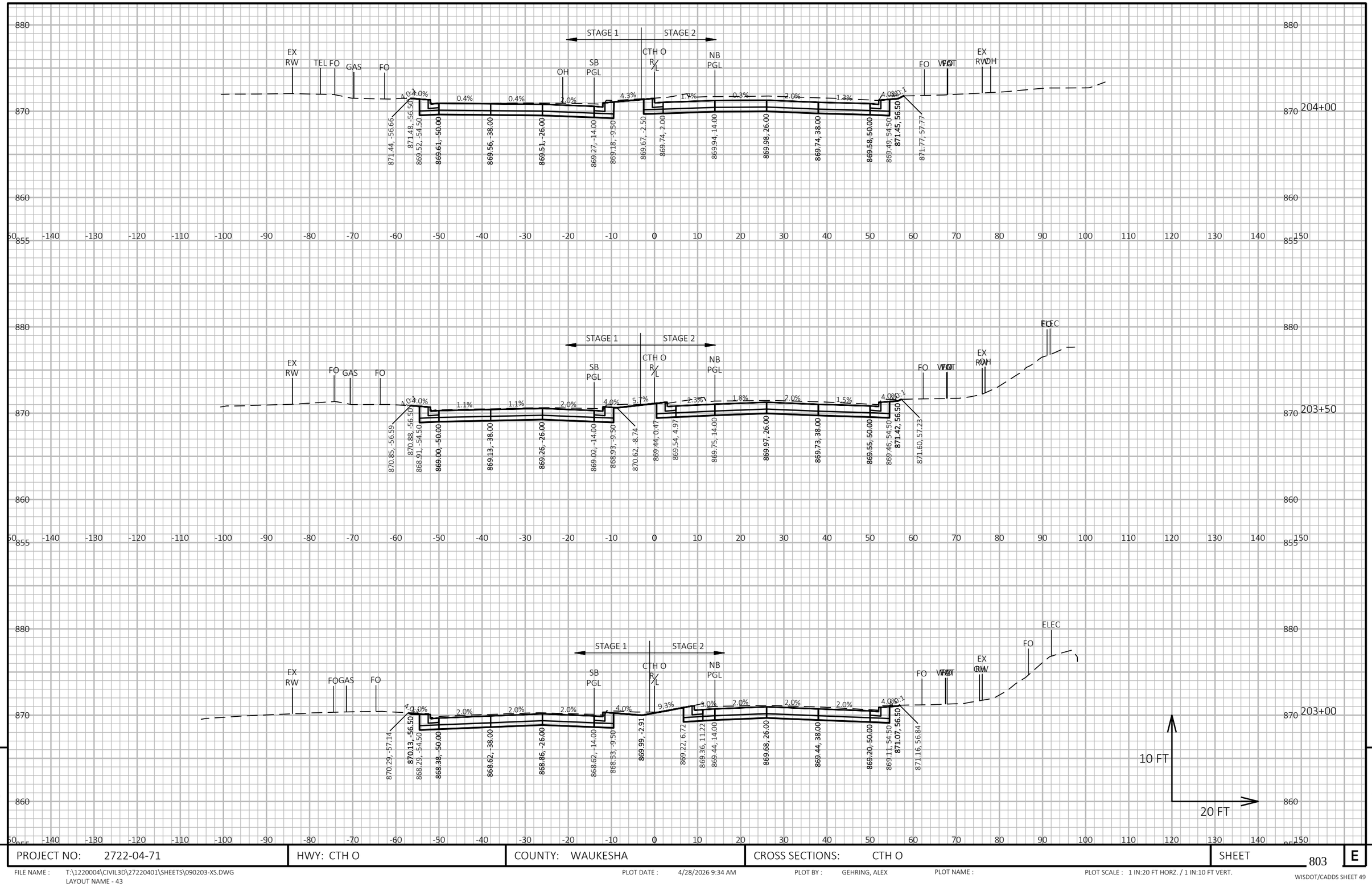
PLOT DATE : 4/28/2026 9:34 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 803	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 43

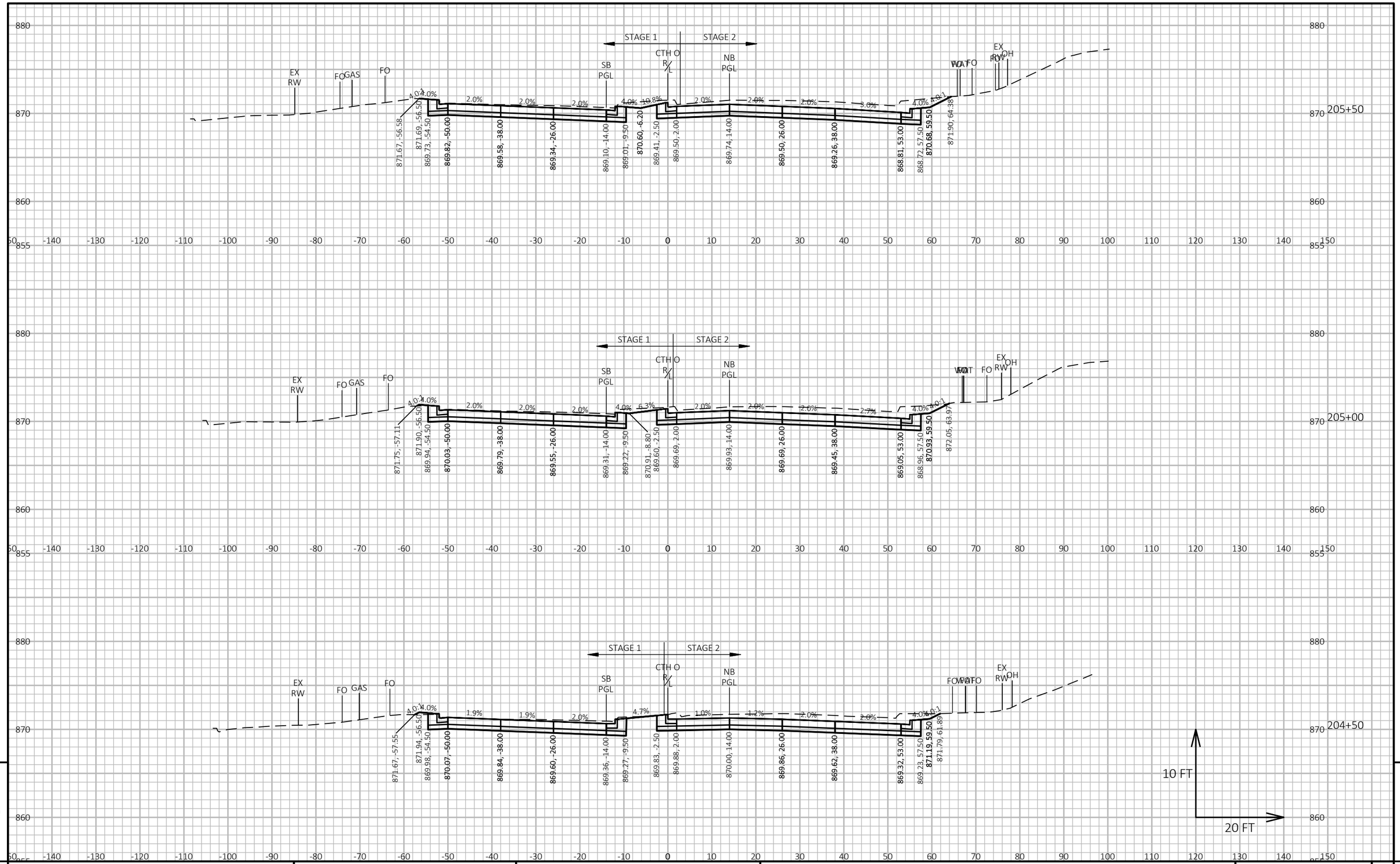
PLOT DATE : 4/28/2026 9:34 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

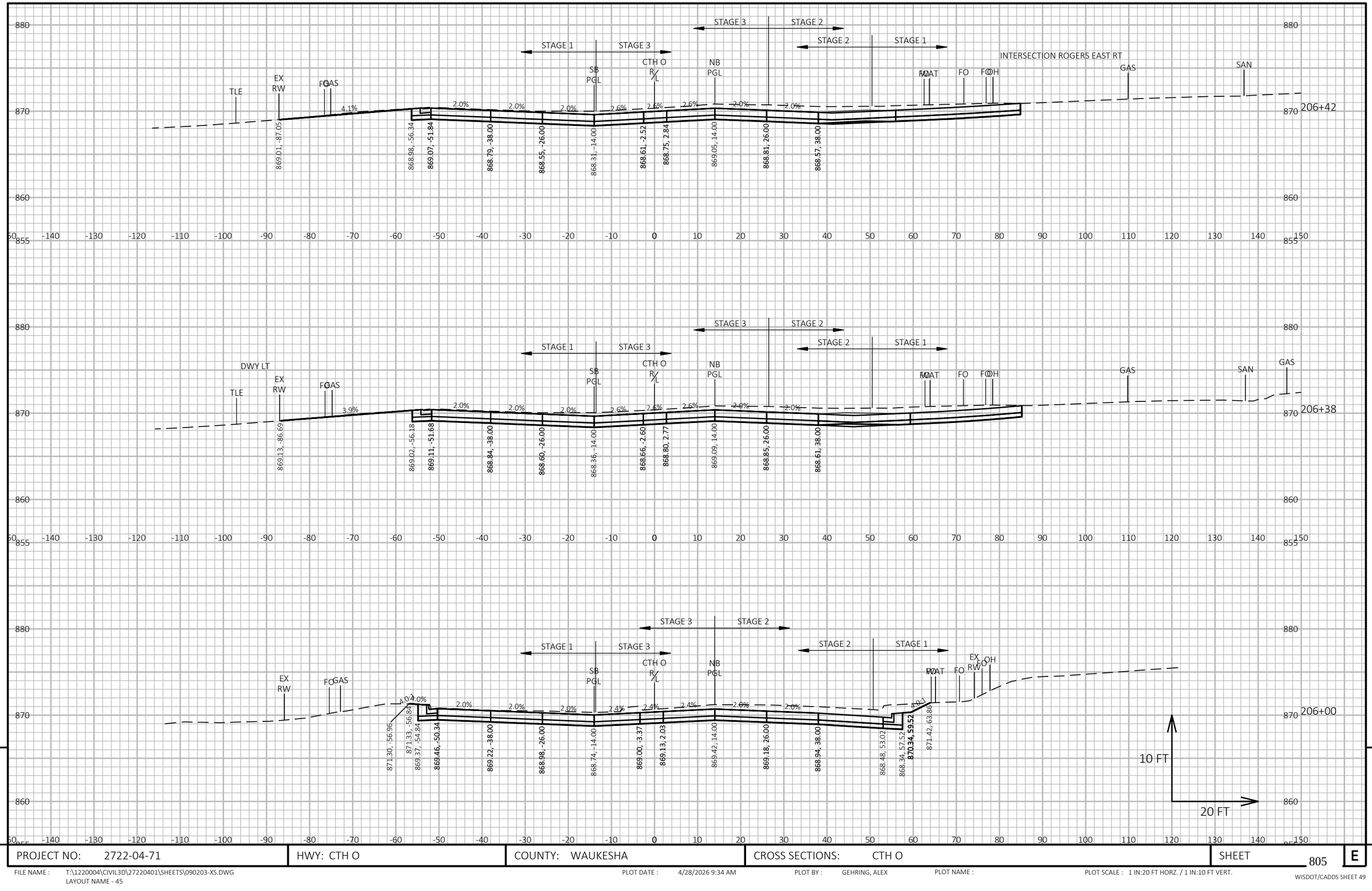
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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 804	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 44

PLOT DATE : 4/28/2026 9:34 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

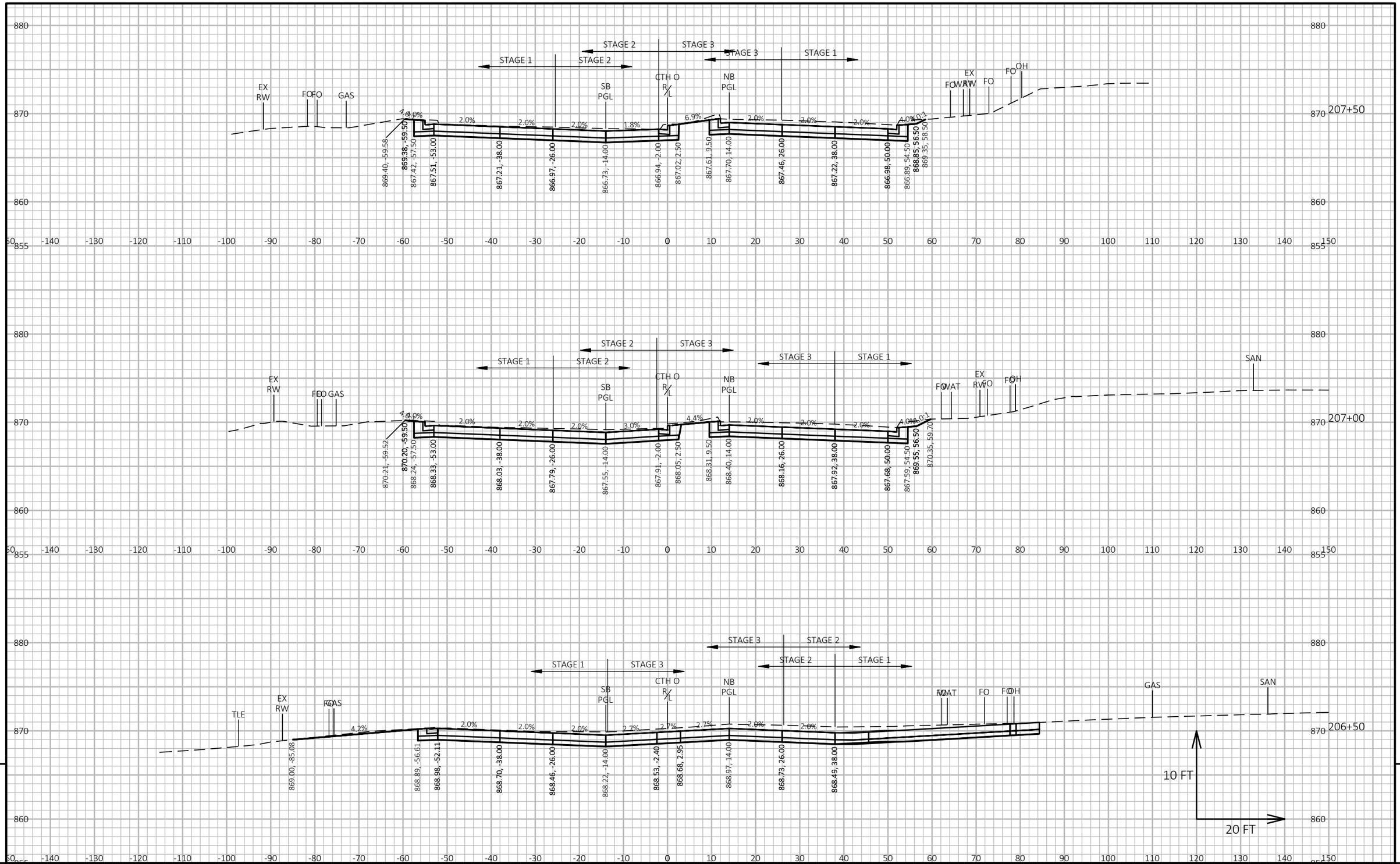


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 805 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 45

PLOT DATE : 4/28/2026 9:34 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 806	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 46

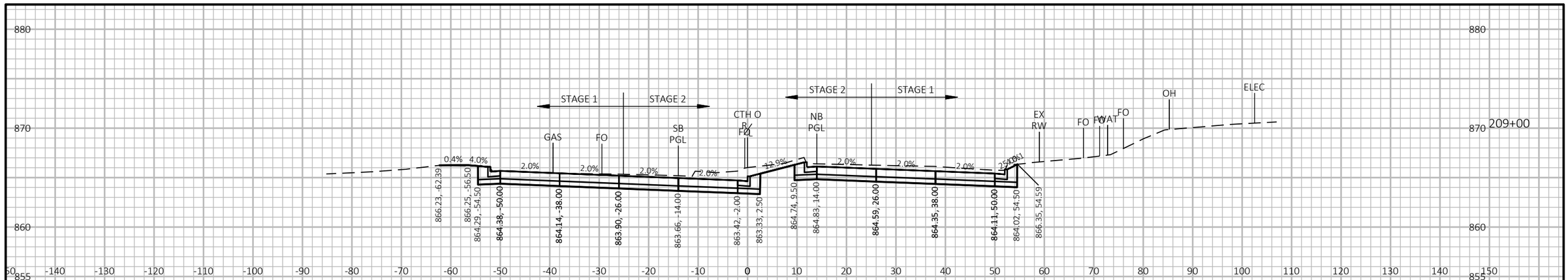
PLOT DATE : 4/28/2026 9:34 AM

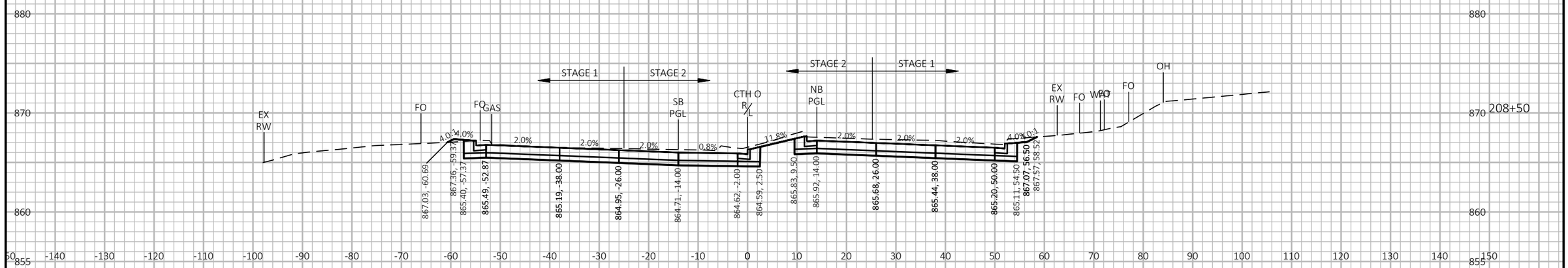
PLOT BY : GEHRING, ALEX

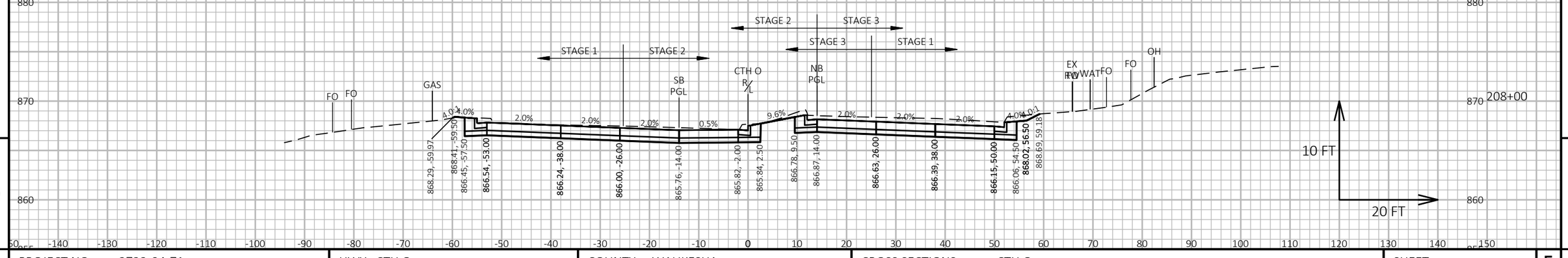
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







9

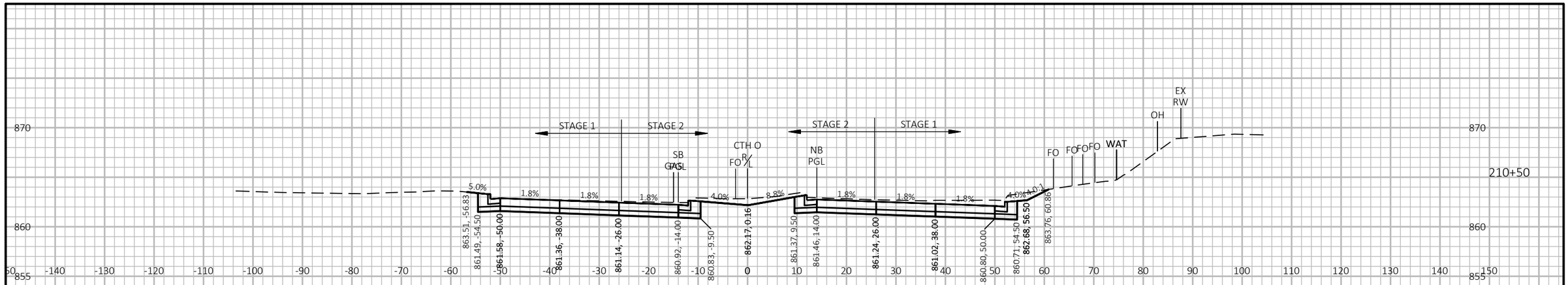
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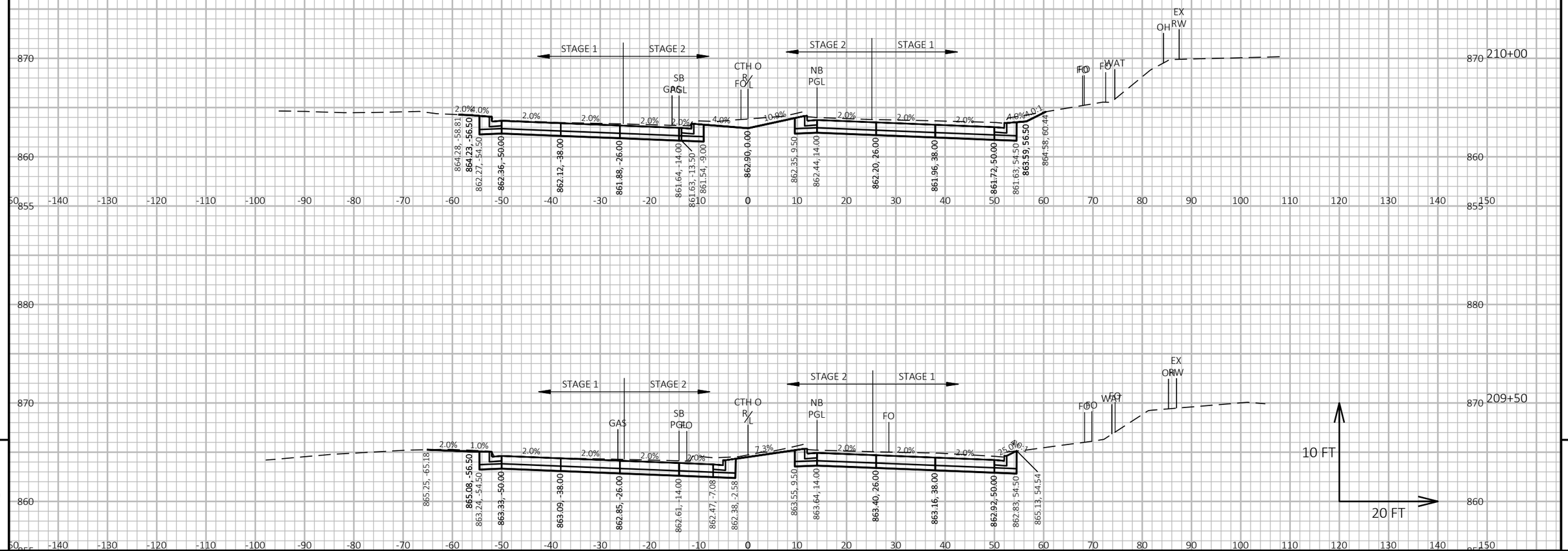
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 807	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 47

PLOT DATE : 4/28/2026 9:34 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

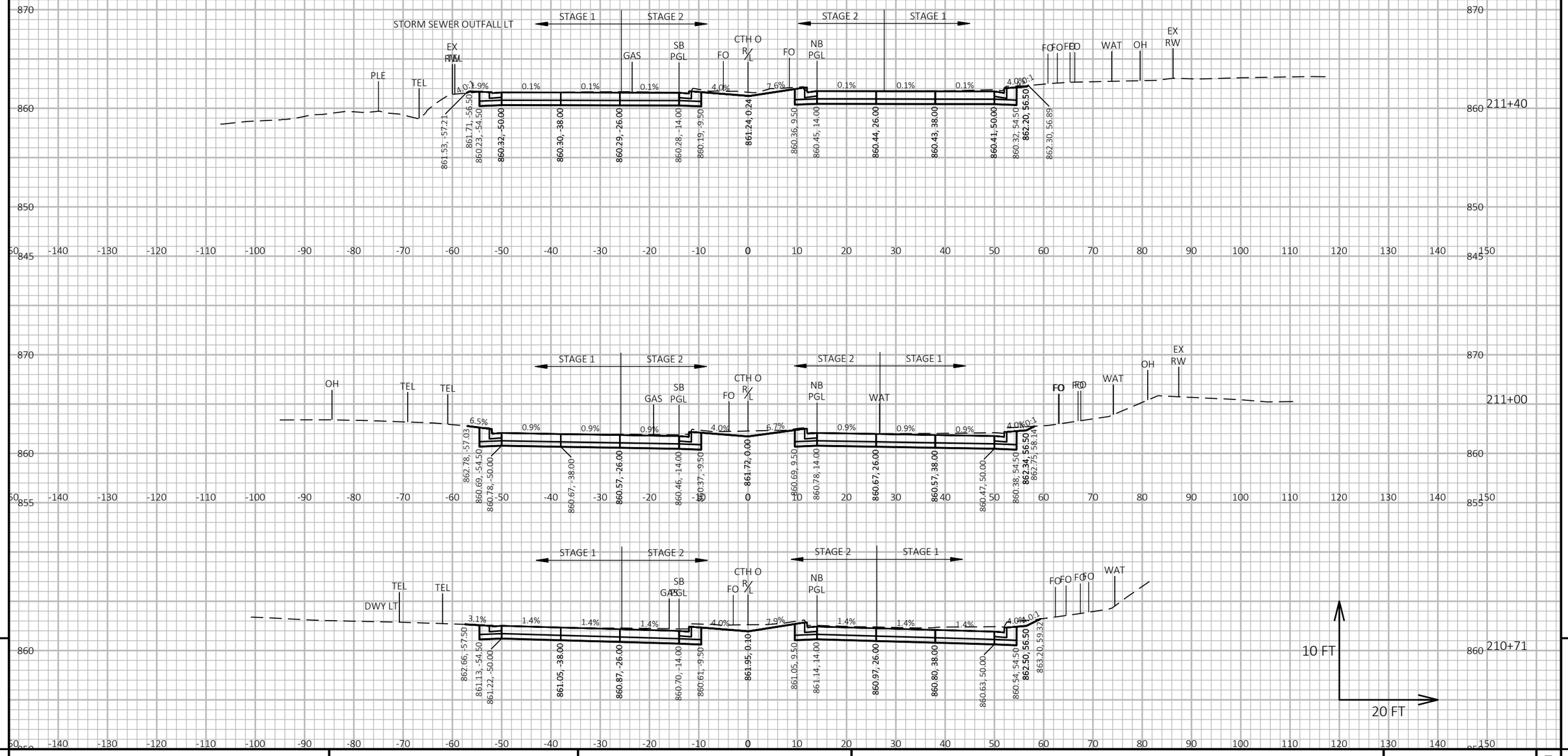
9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 808	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 48

PLOT DATE : 4/28/2026 9:34 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 809	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 49

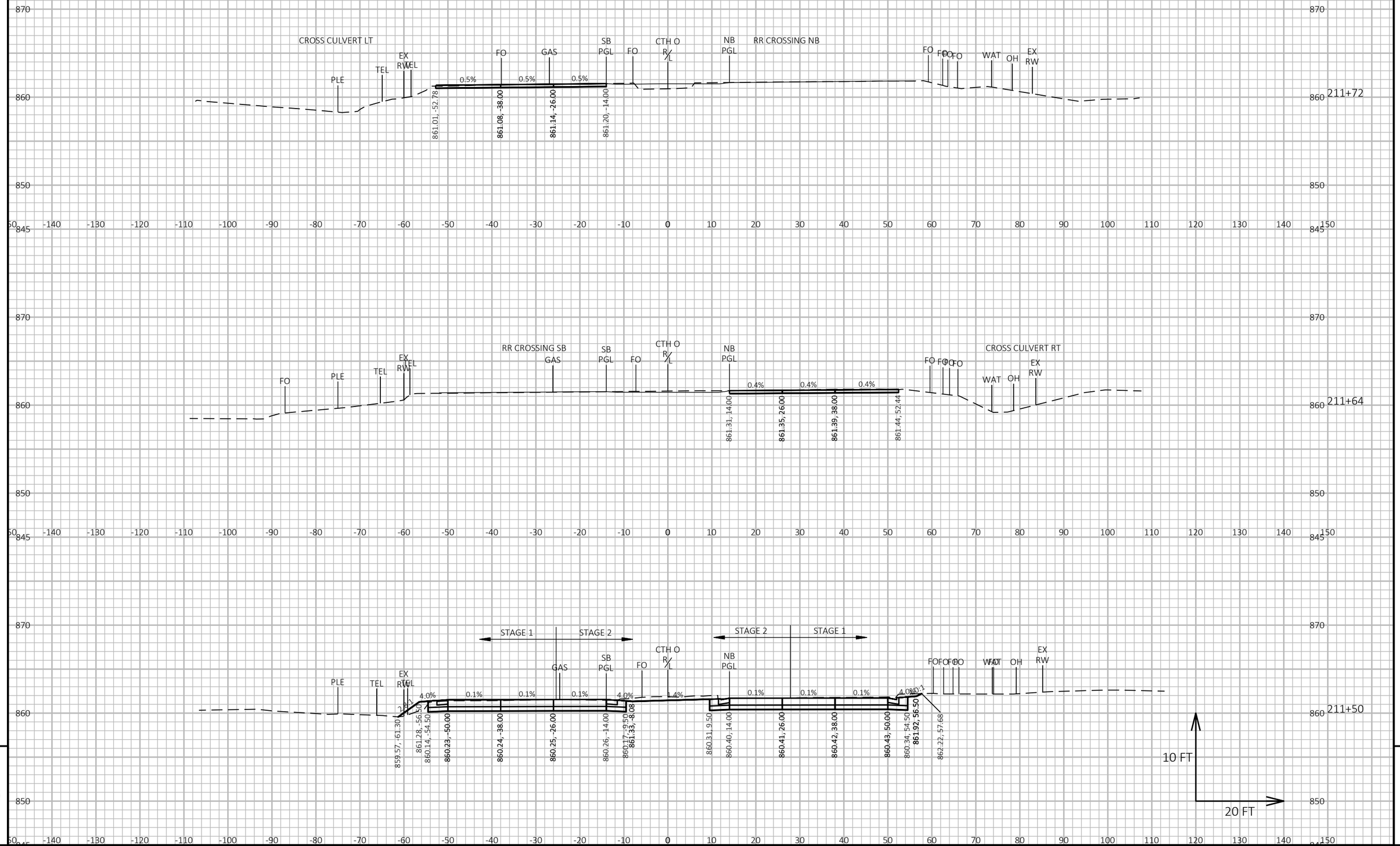
PLOT DATE : 4/28/2026 9:34 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 810 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 50

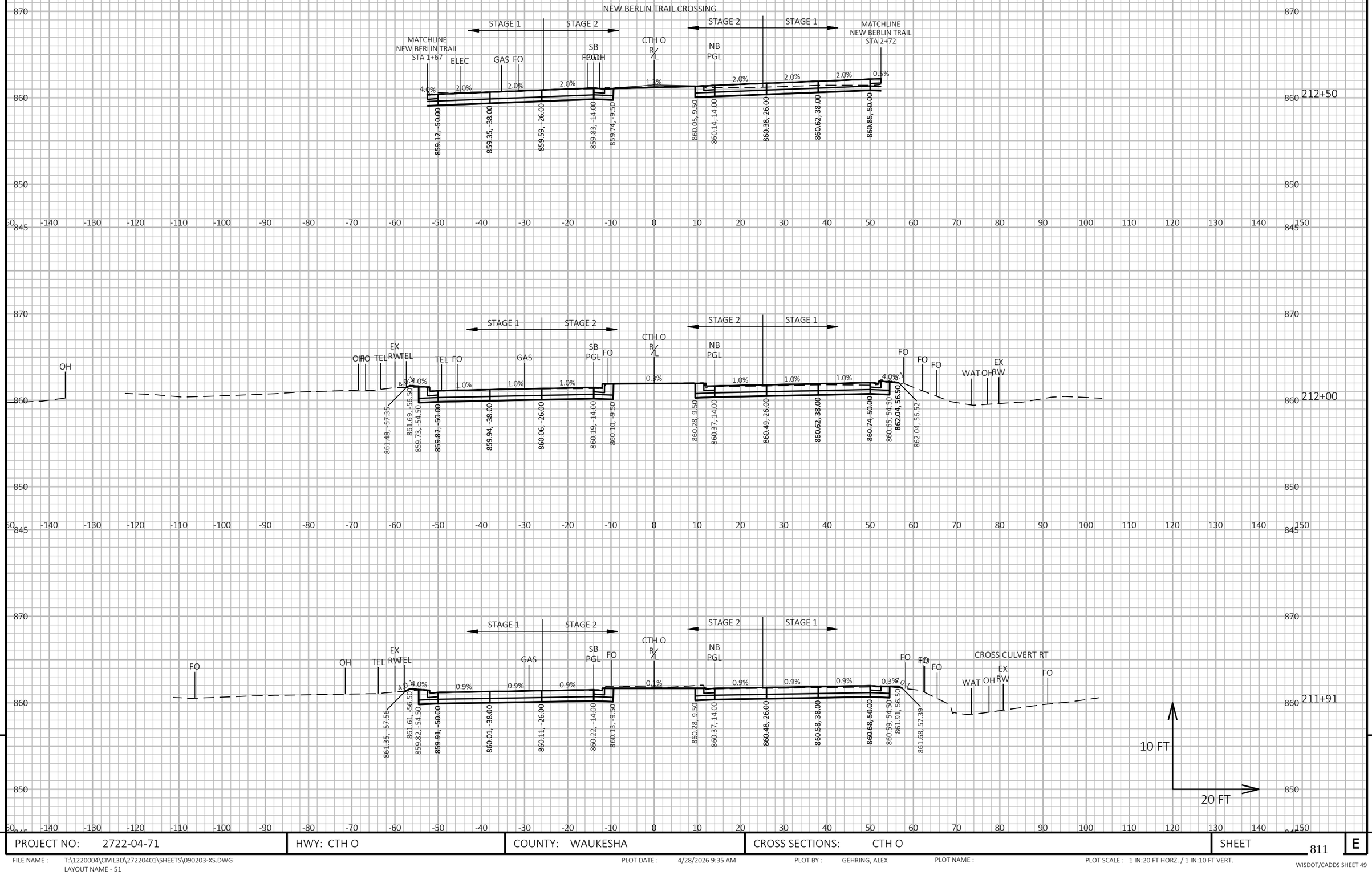
PLOT DATE : 4/28/2026 9:35 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

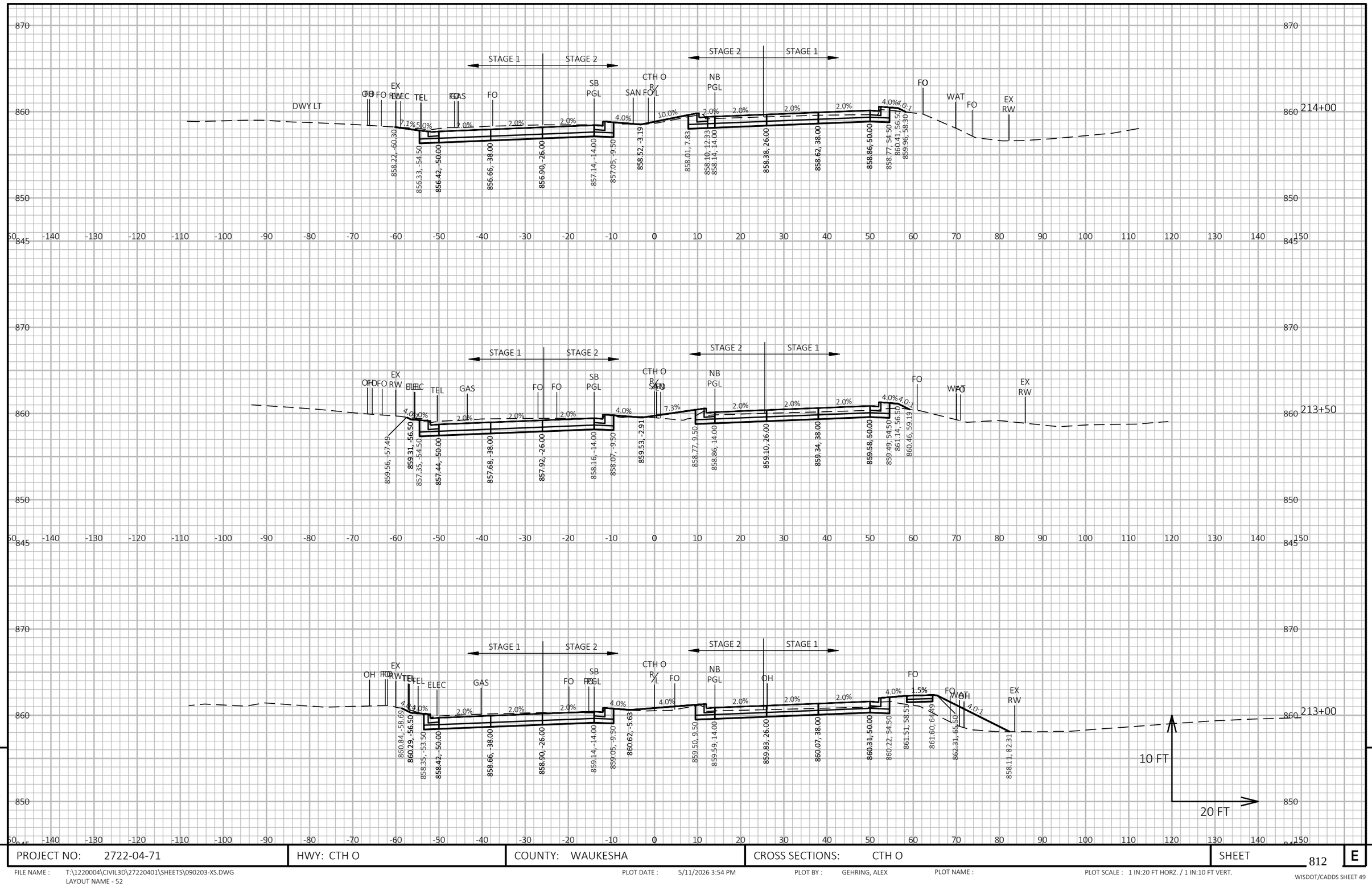


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 811	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 51

PLOT DATE : 4/28/2026 9:35 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

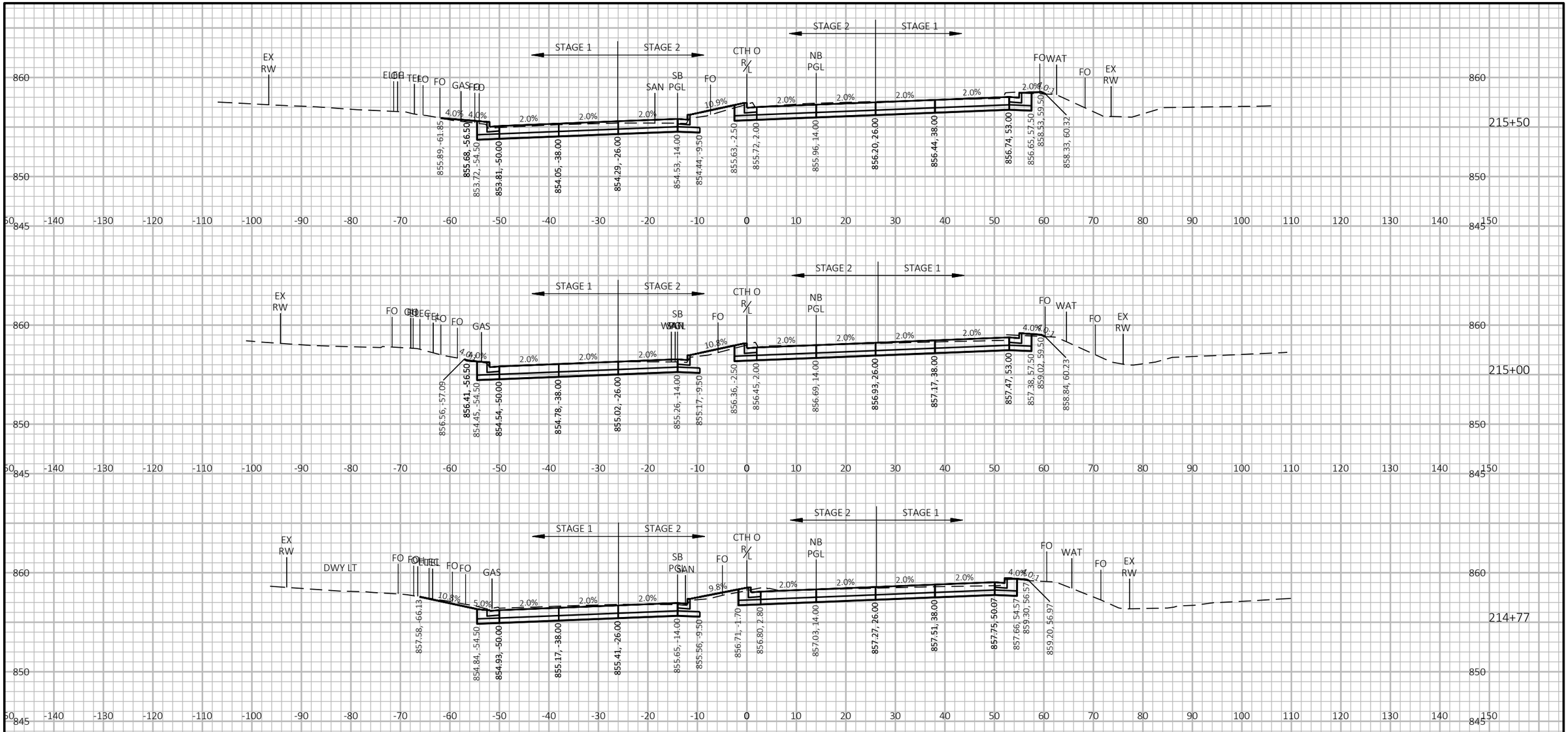


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 812 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 52

PLOT DATE : 5/11/2026 3:54 PM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

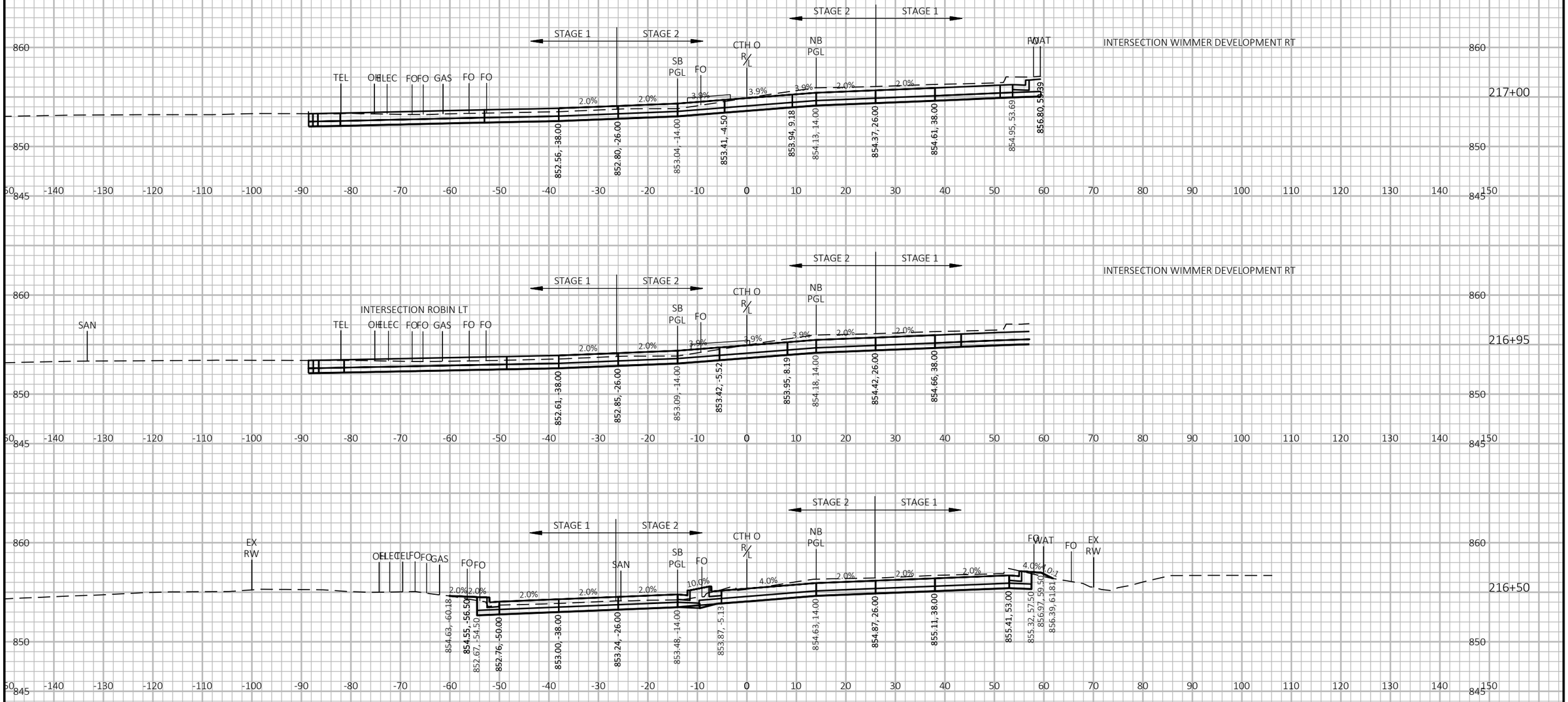


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 813 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 53

PLOT DATE : 4/28/2026 9:35 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 814	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 54

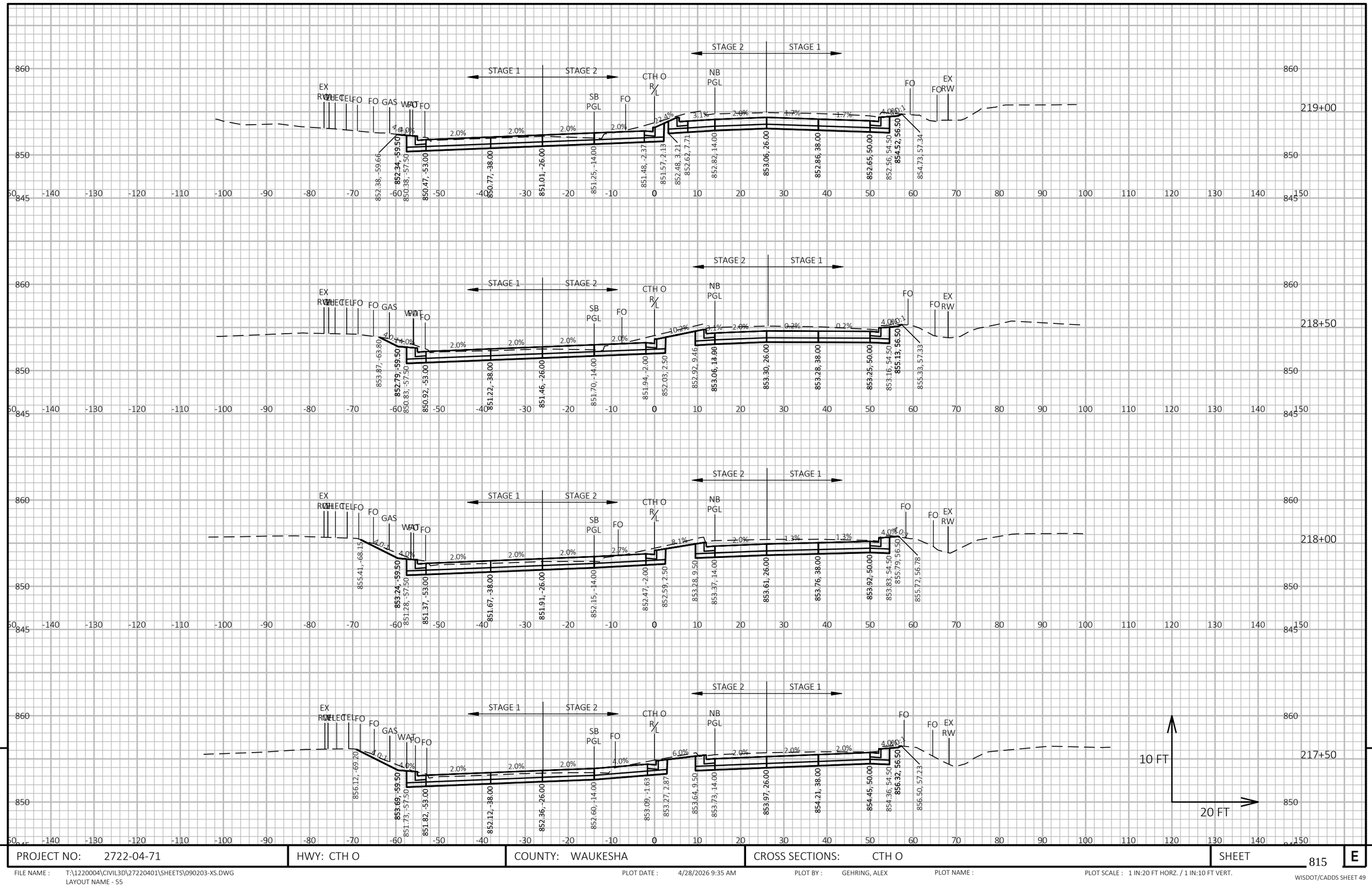
PLOT DATE : 4/28/2026 9:35 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 815	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 55

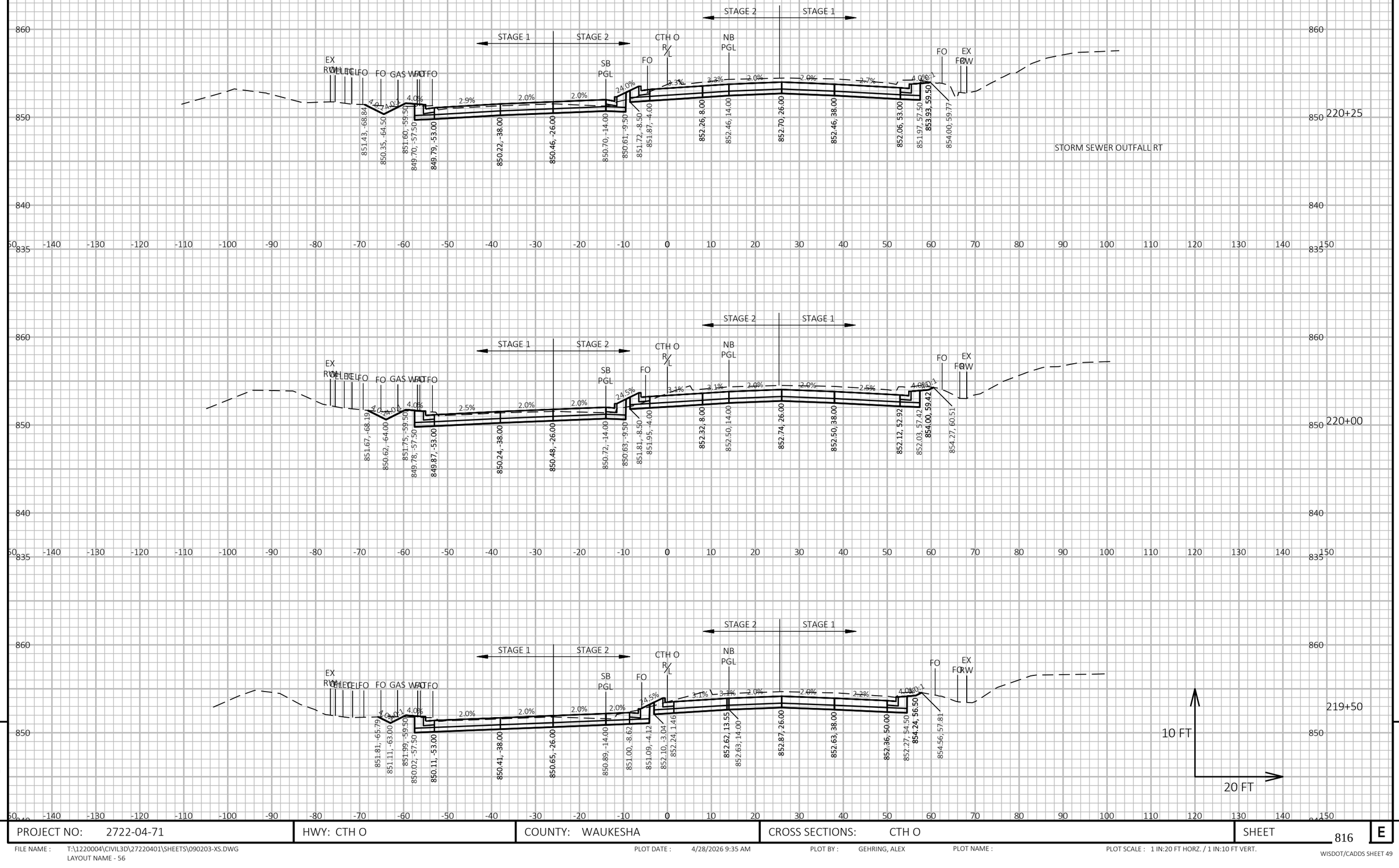
PLOT DATE : 4/28/2026 9:35 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 816 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 56

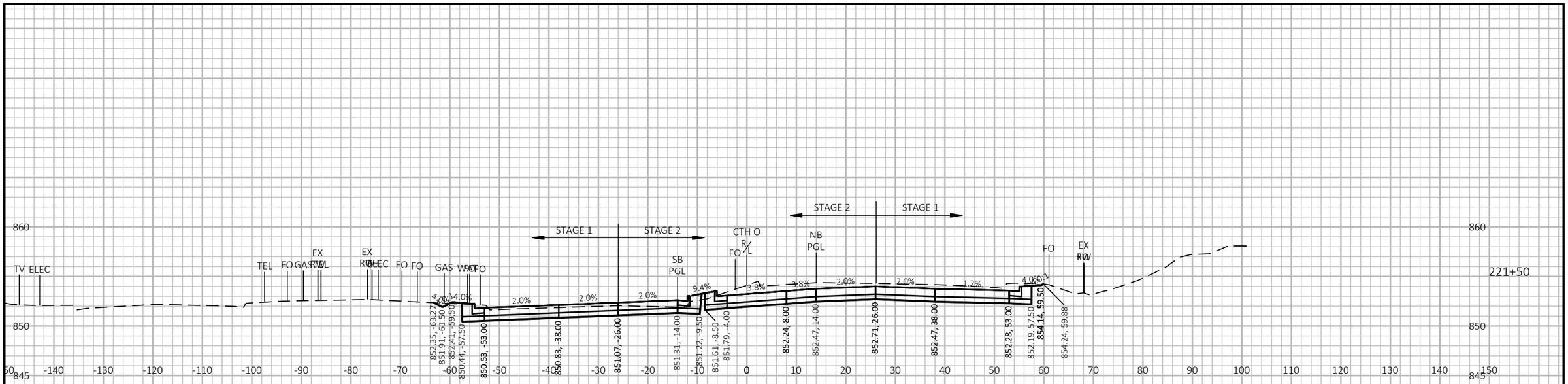
PLOT DATE : 4/28/2026 9:35 AM

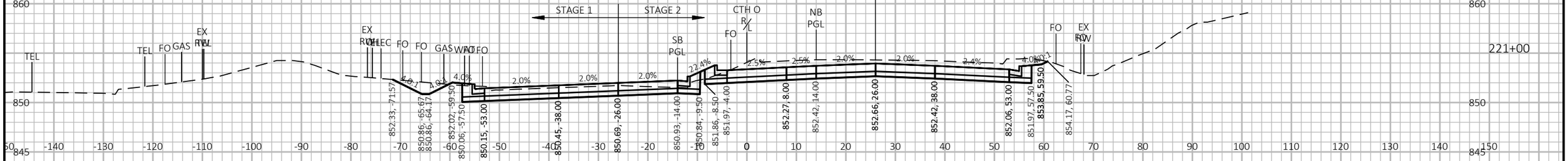
PLOT BY : GEHRING, ALEX

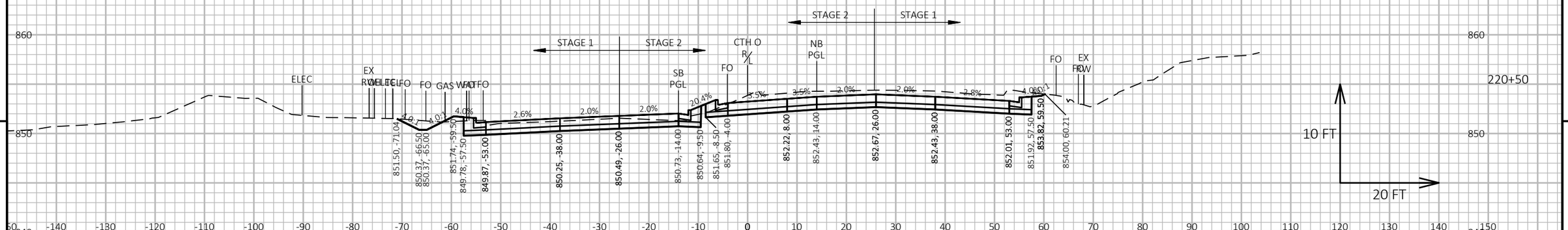
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 817	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 57

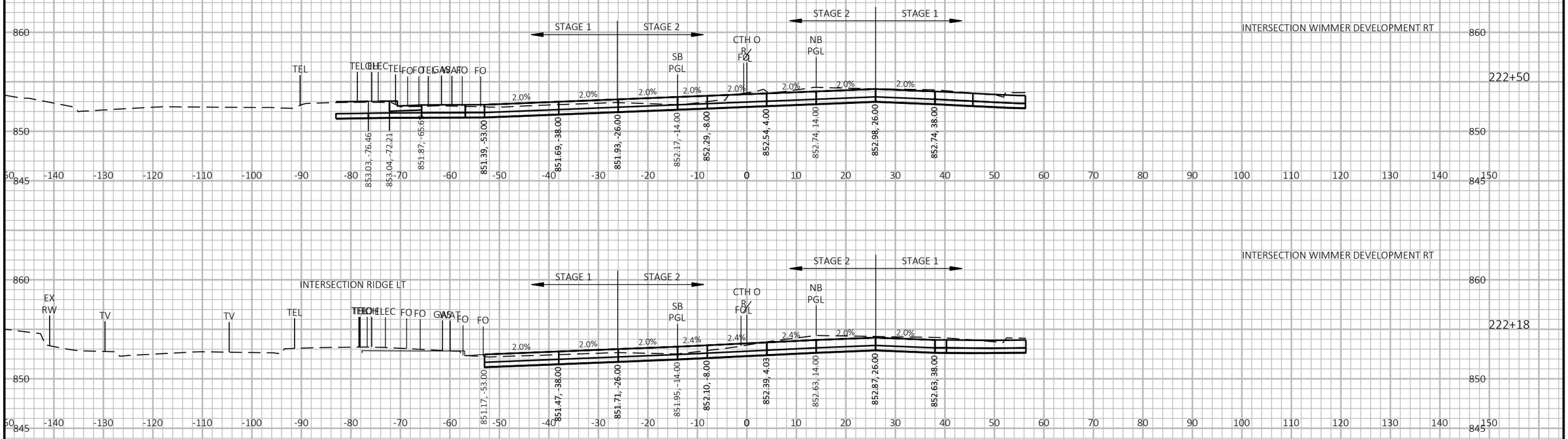
PLOT DATE : 4/28/2026 9:35 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

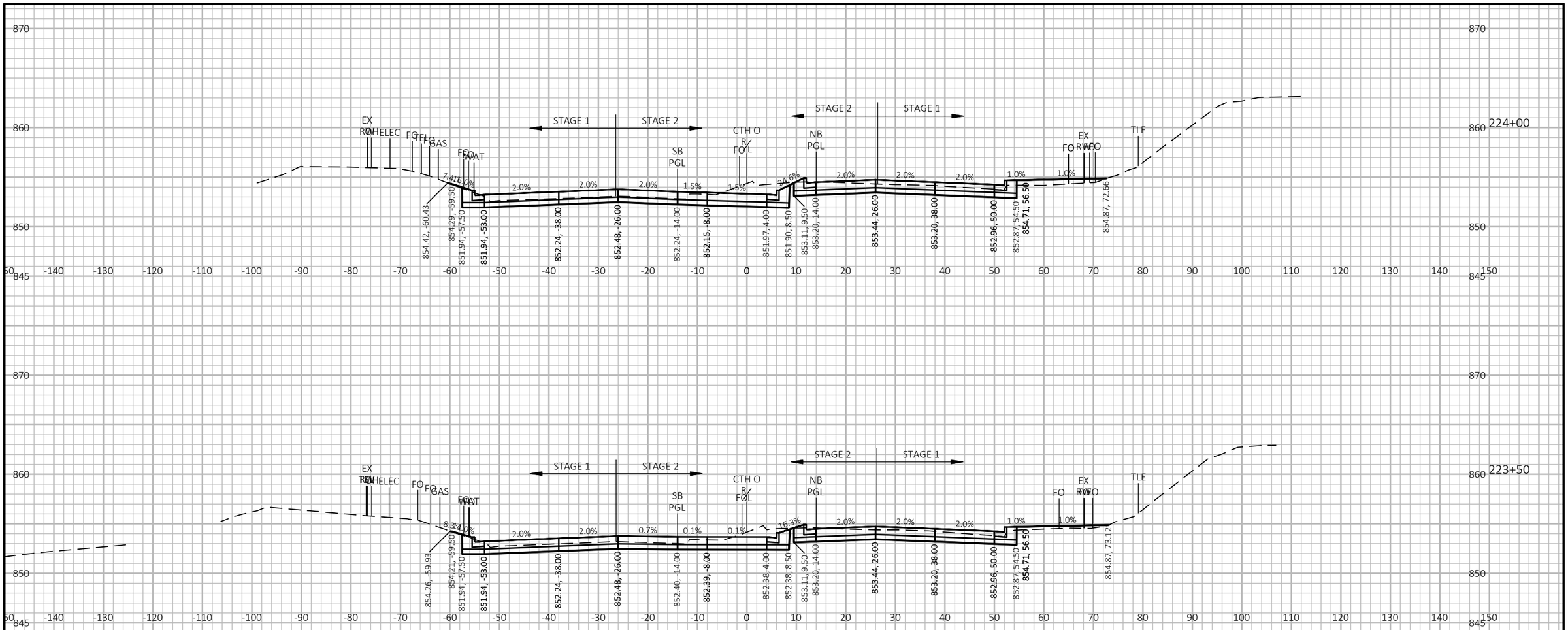


PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 818 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 58

PLOT DATE : 4/28/2026 9:35 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 819	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 59

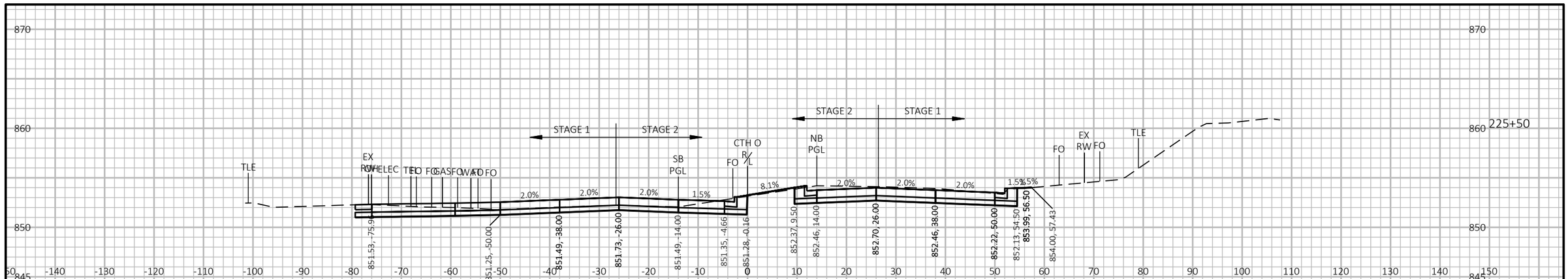
PLOT DATE : 4/28/2026 9:35 AM

PLOT BY : GEHRING, ALEX

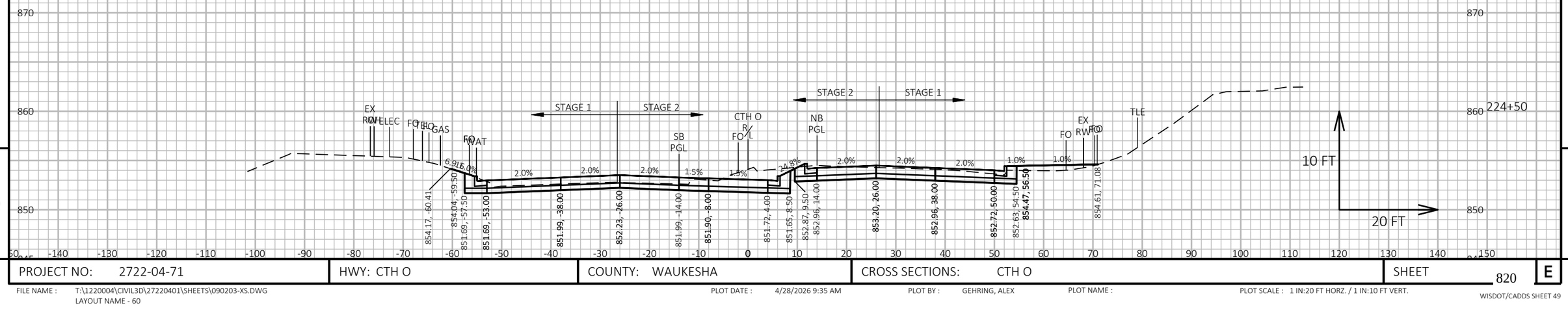
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 820	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 60

PLOT DATE : 4/28/2026 9:35 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

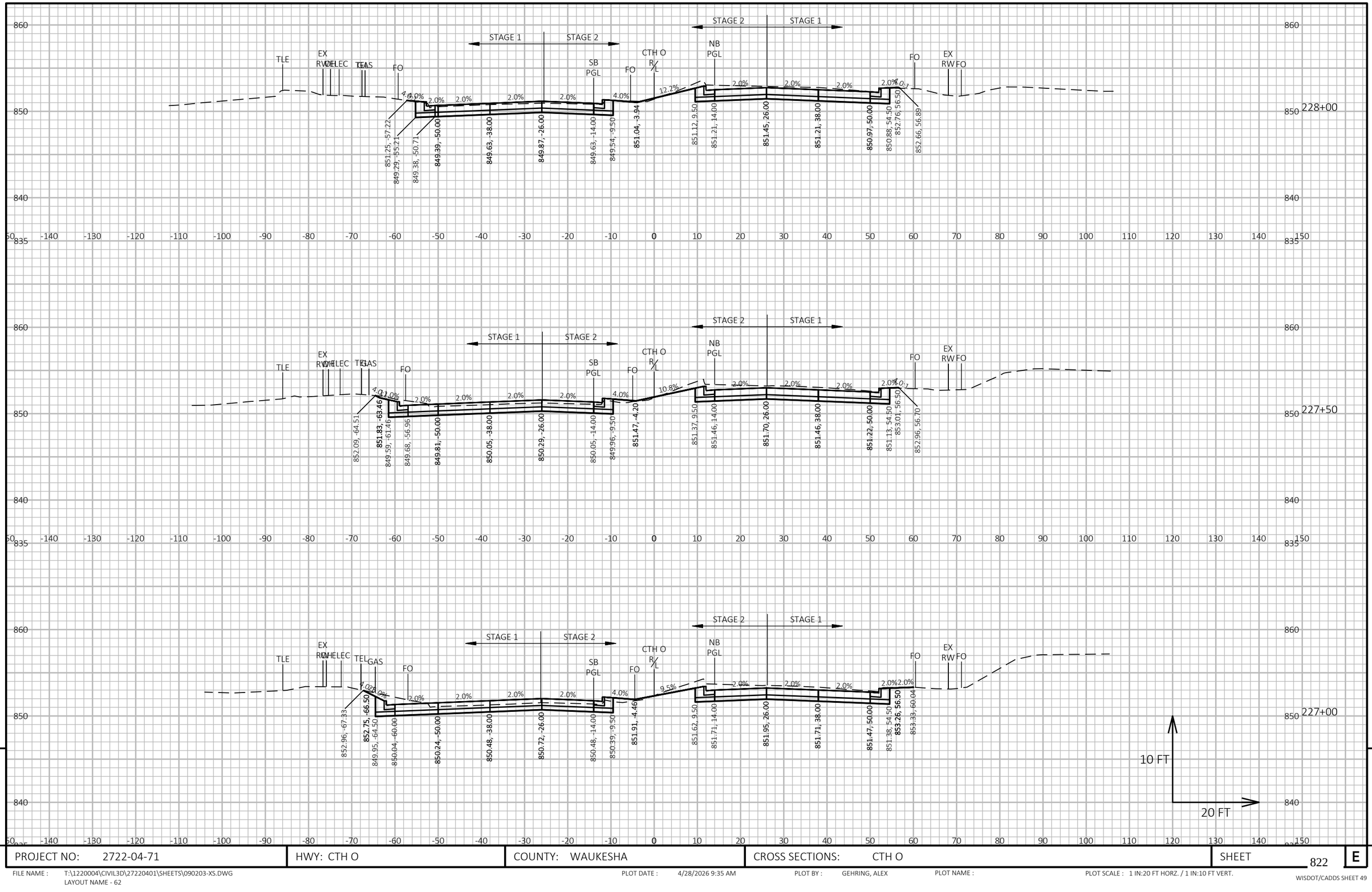
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 821 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 61

PLOT DATE : 4/28/2026 9:35 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9 9



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 822 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 62

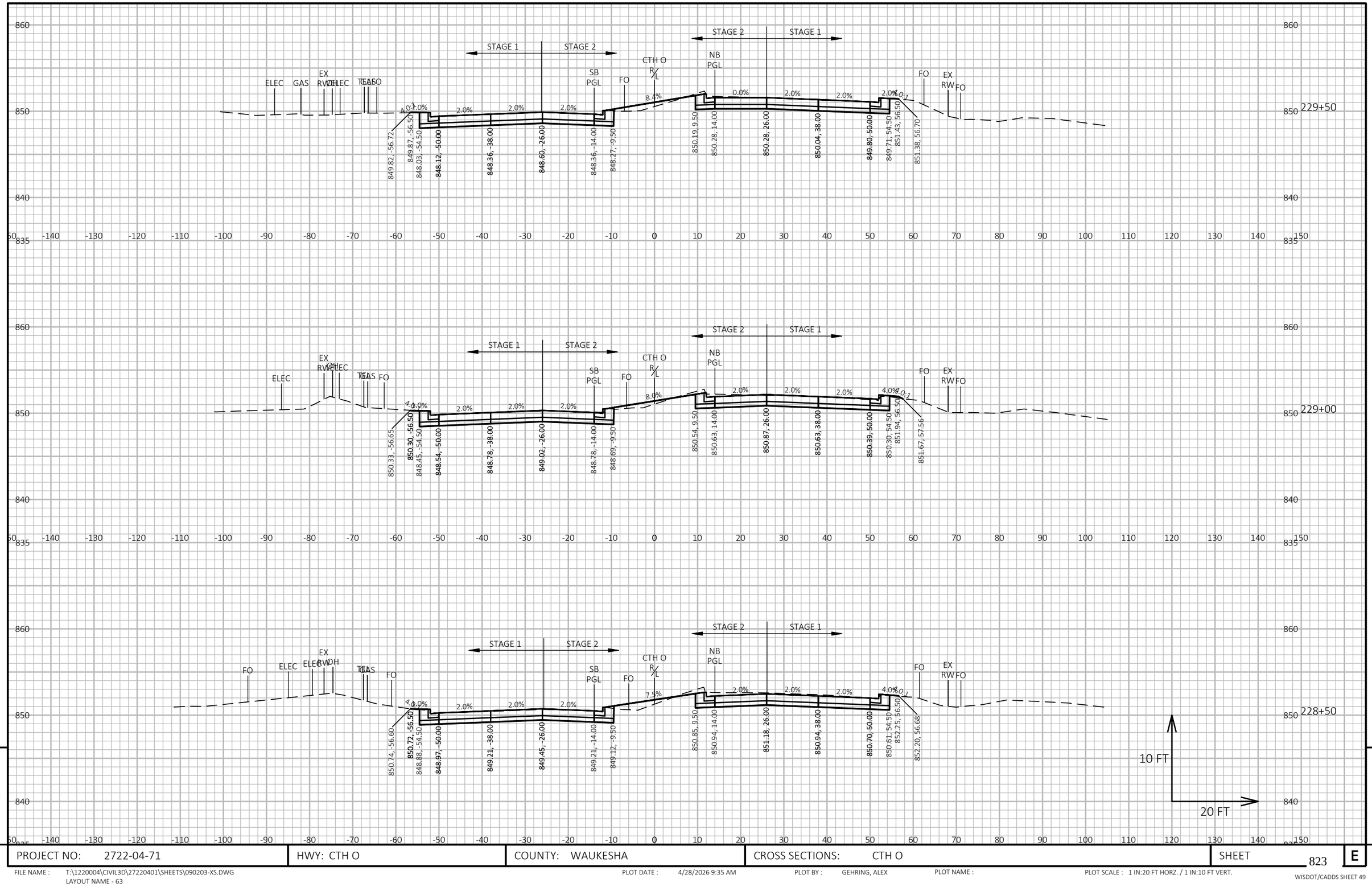
PLOT DATE : 4/28/2026 9:35 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 823	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 63

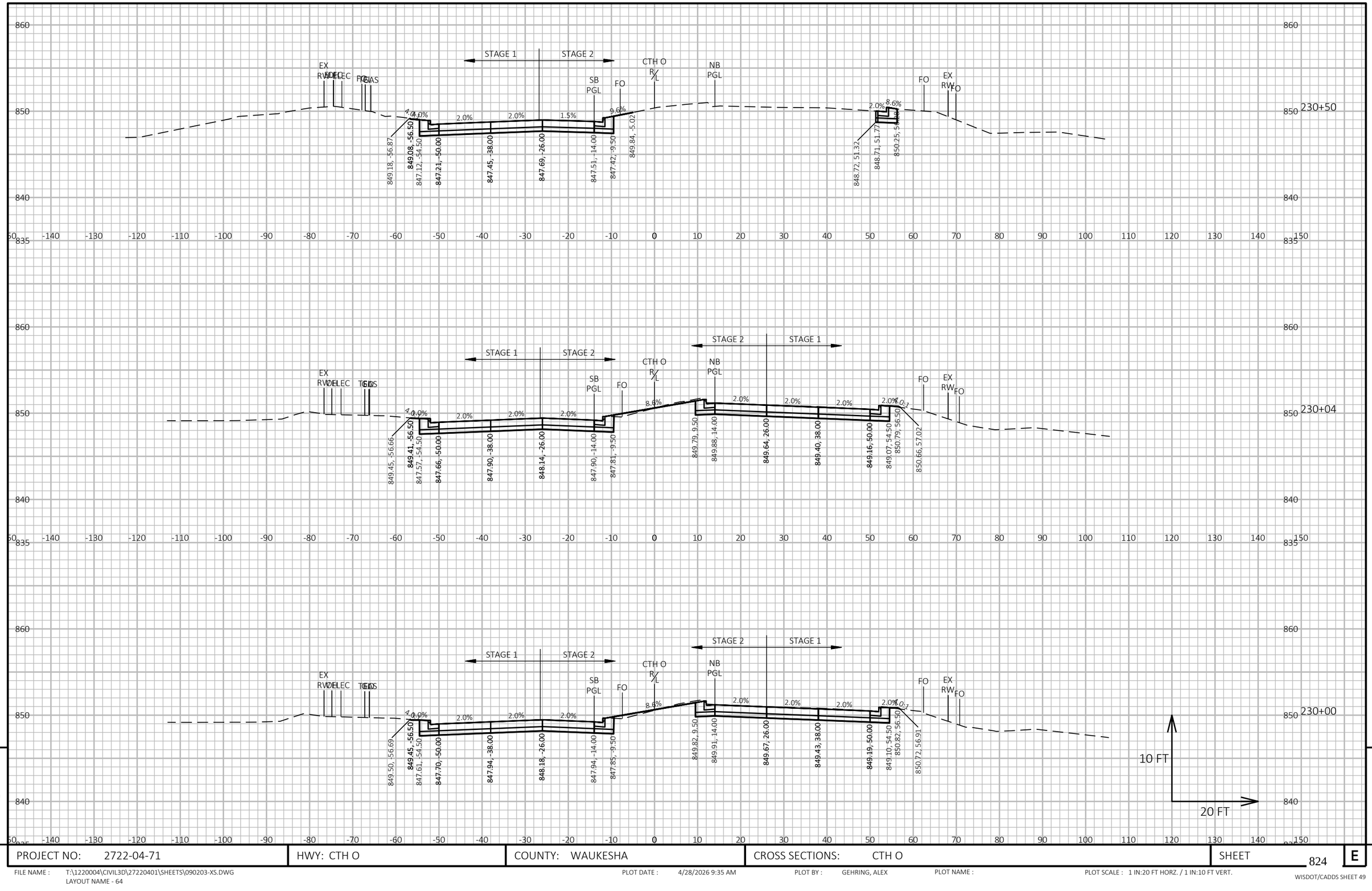
PLOT DATE : 4/28/2026 9:35 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 824	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 64

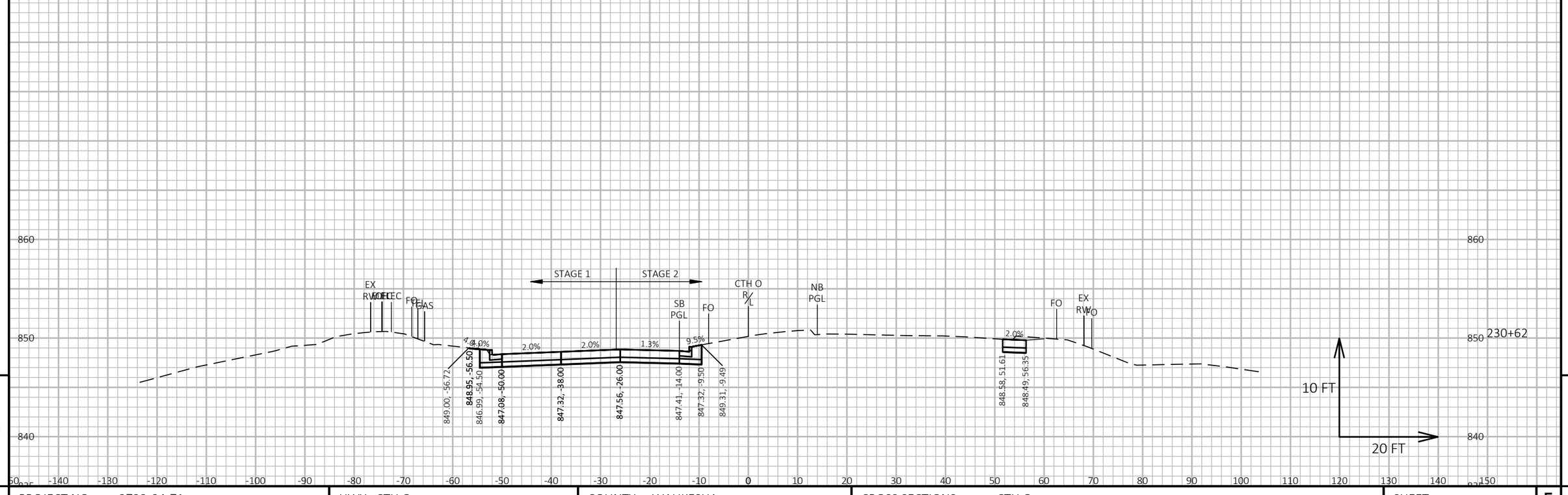
PLOT DATE : 4/28/2026 9:35 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH O	SHEET 825	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 65

PLOT DATE : 4/28/2026 9:35 AM

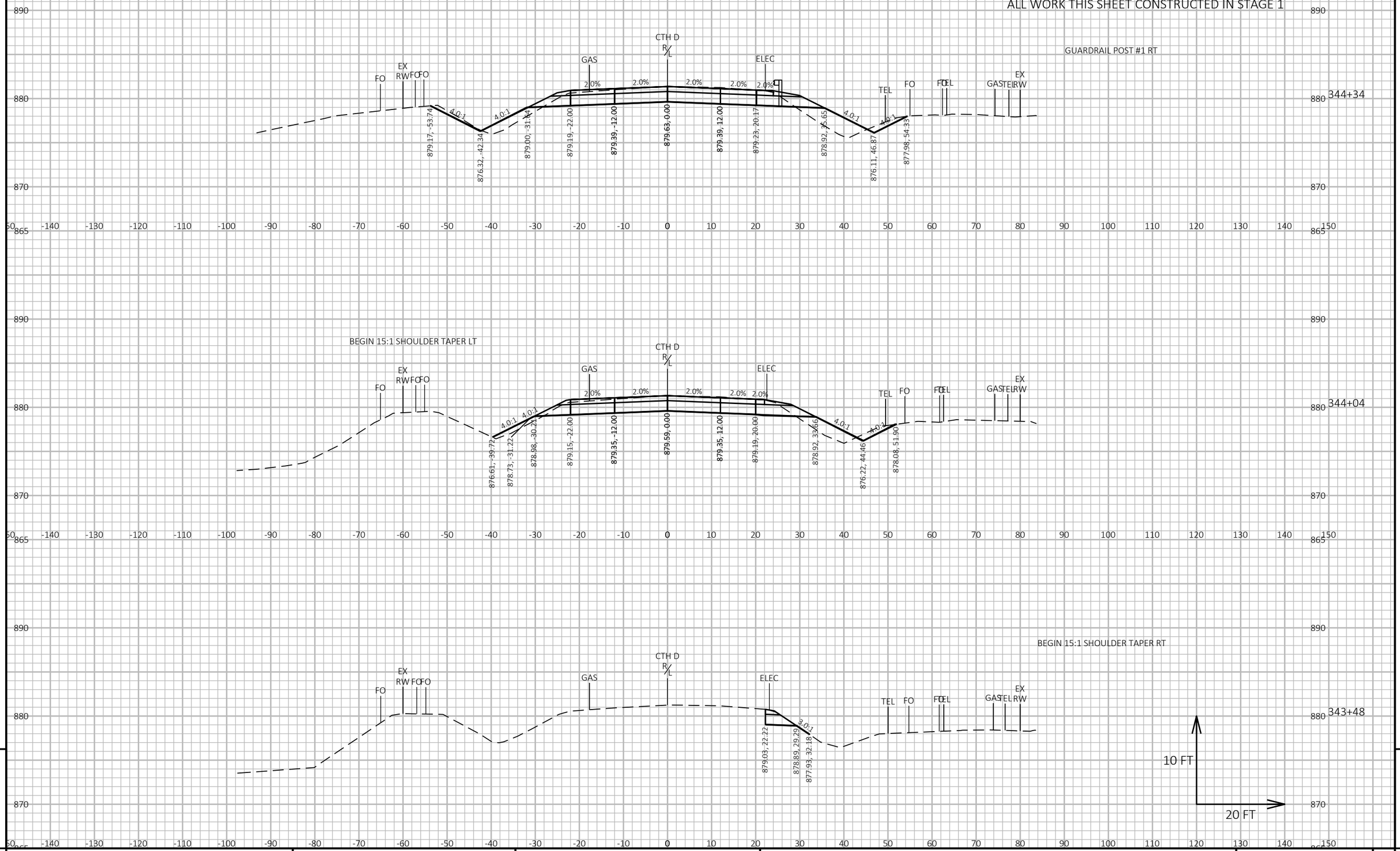
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



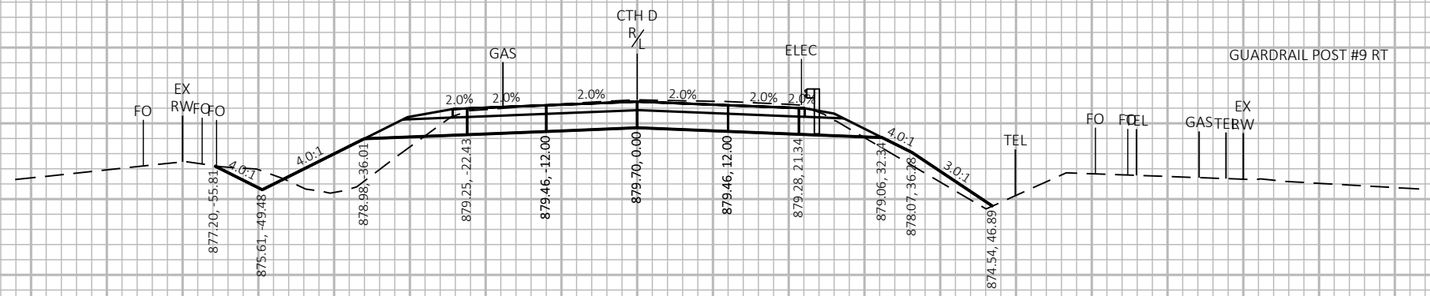
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 826 E

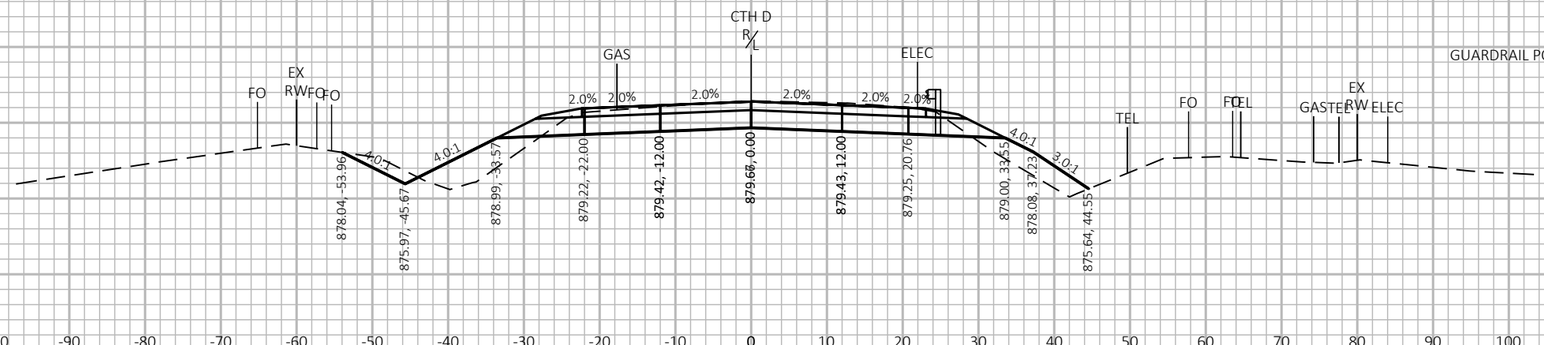
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 66

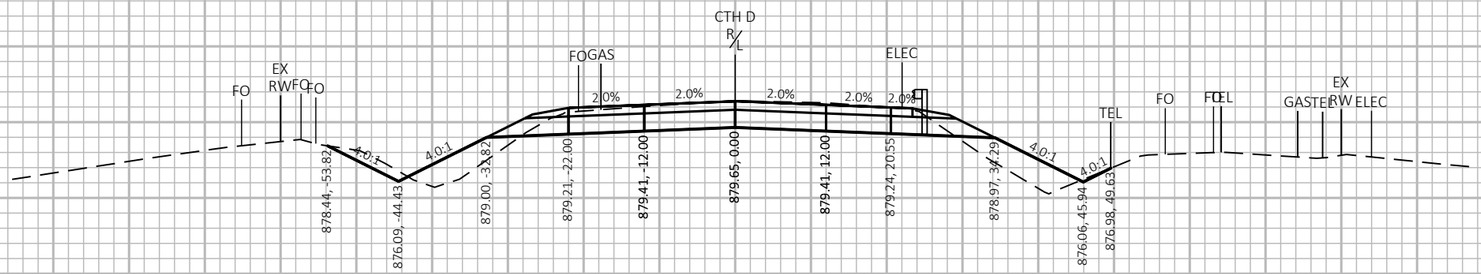
PLOT DATE : 4/28/2026 9:35 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1







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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 827	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 67

PLOT DATE : 4/28/2026 9:35 AM

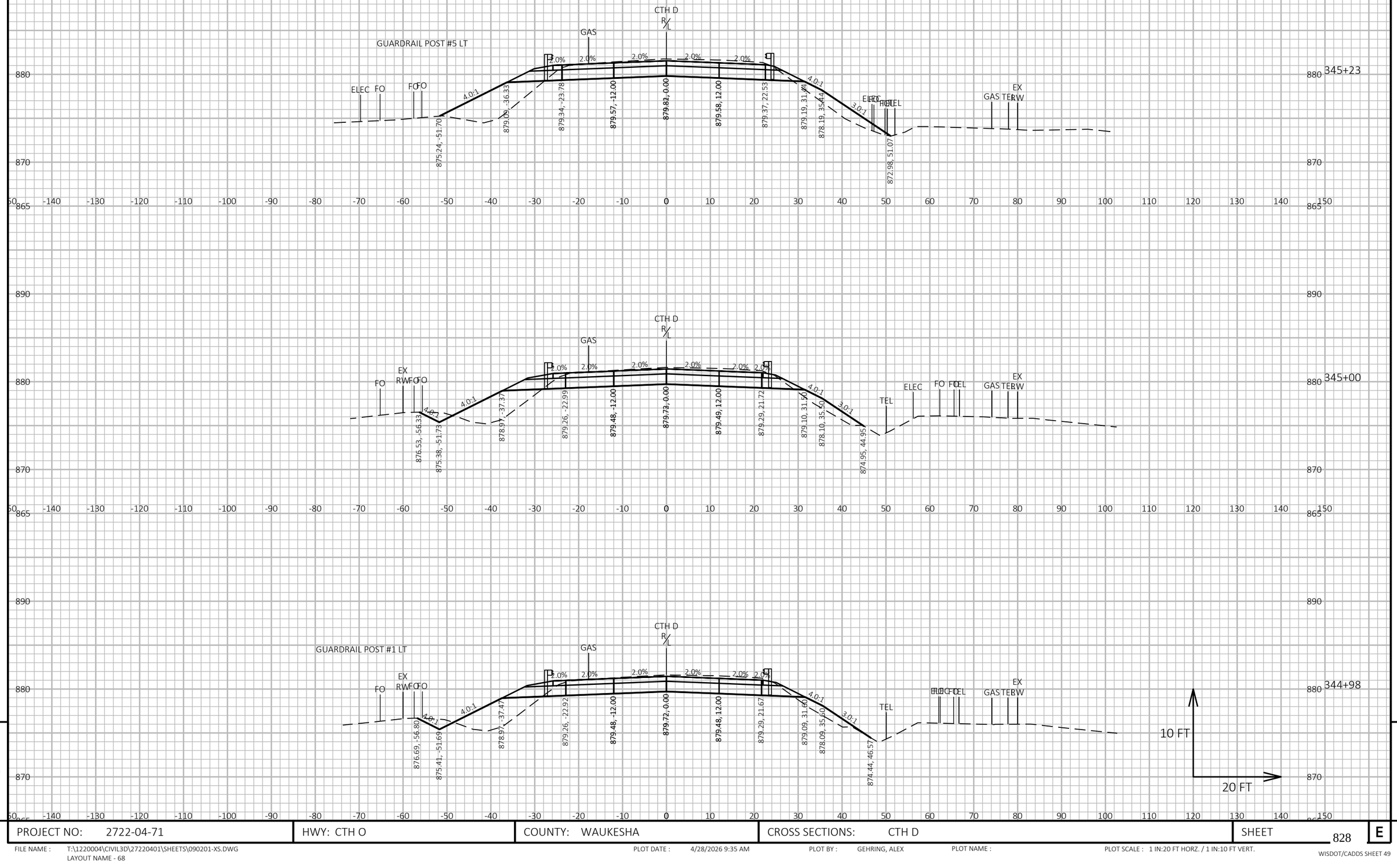
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 828	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 68

PLOT DATE : 4/28/2026 9:35 AM

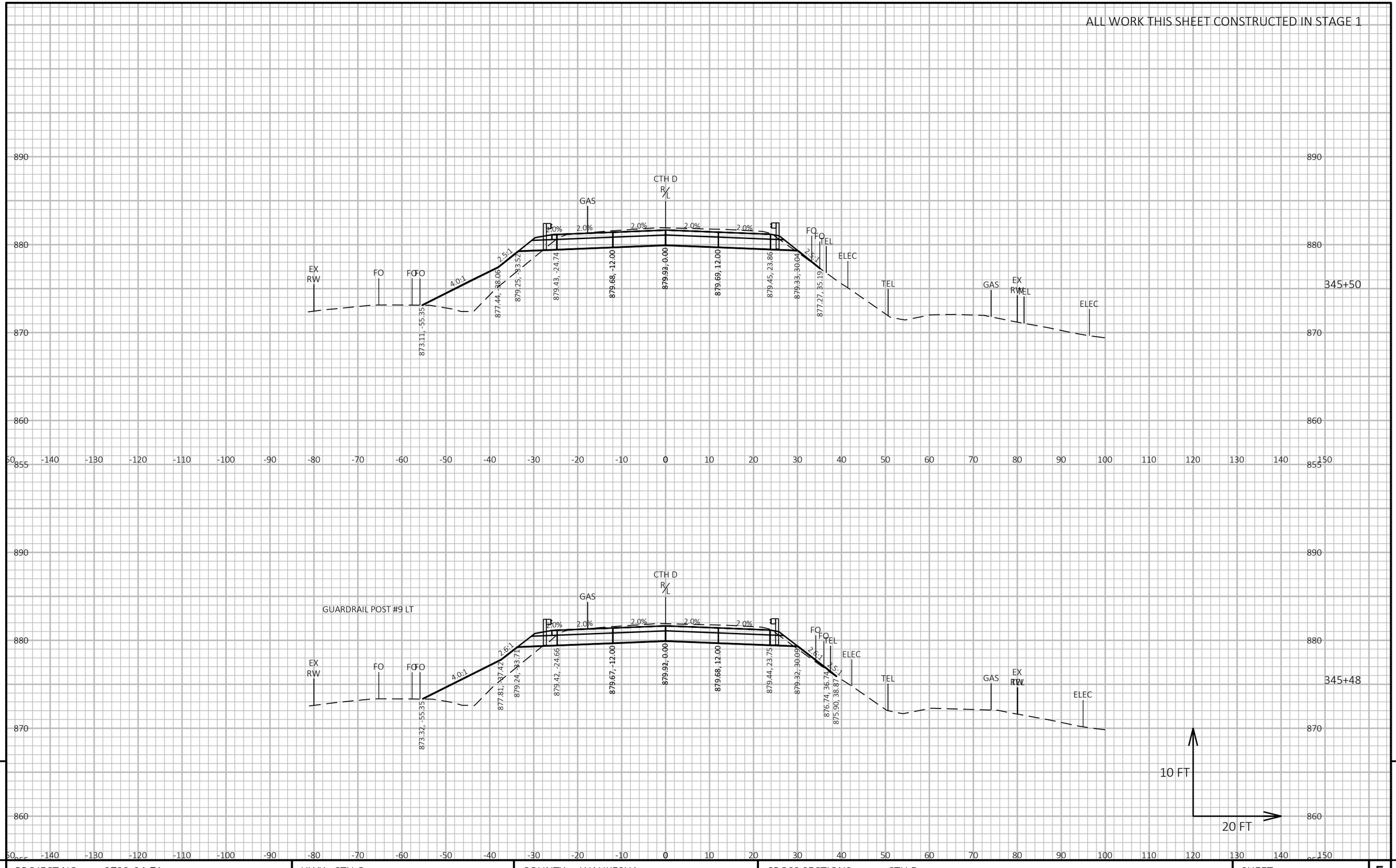
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 829	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 69

PLOT DATE : 4/28/2026 9:35 AM

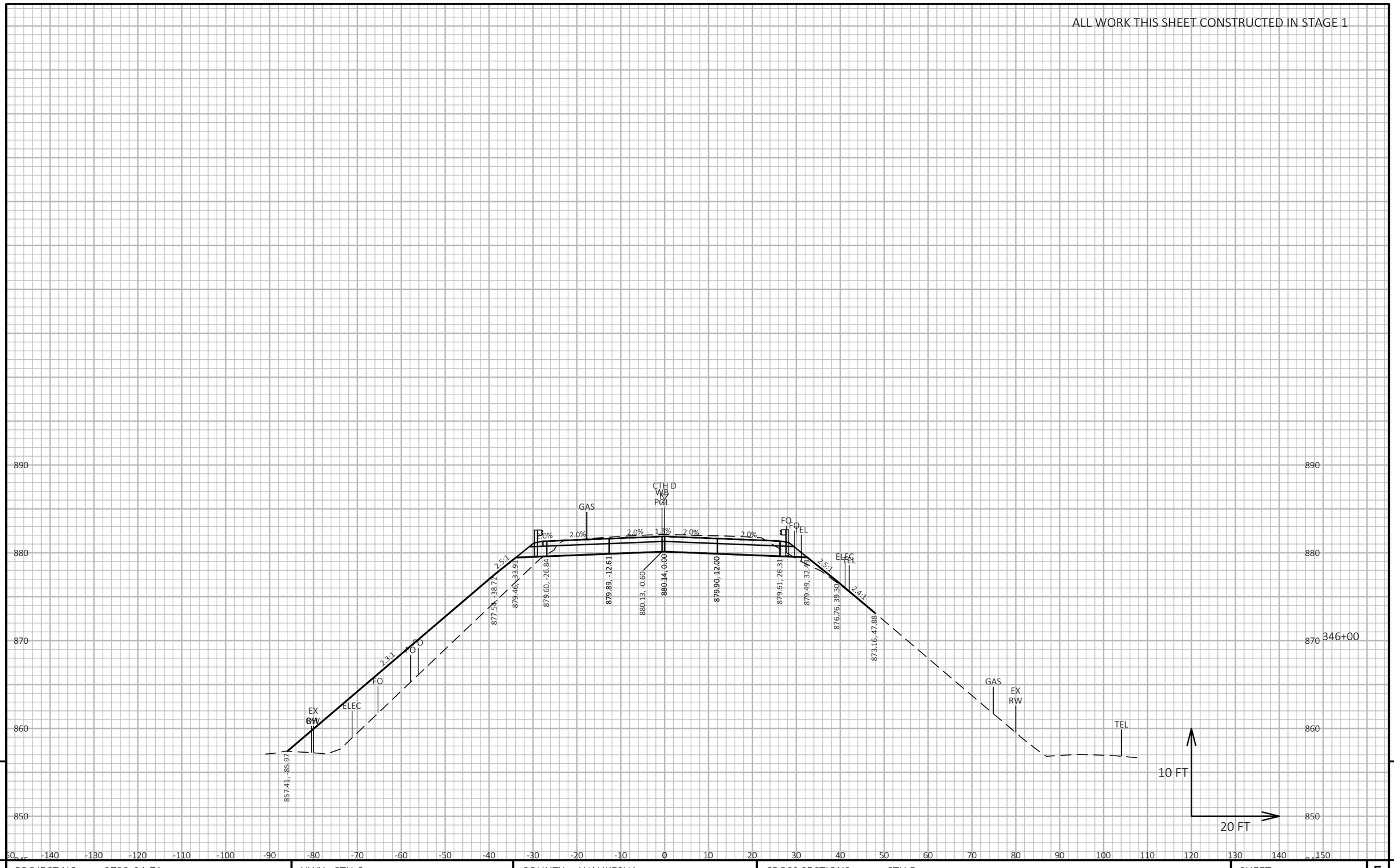
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 830	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 70

PLOT DATE : 4/28/2026 9:35 AM

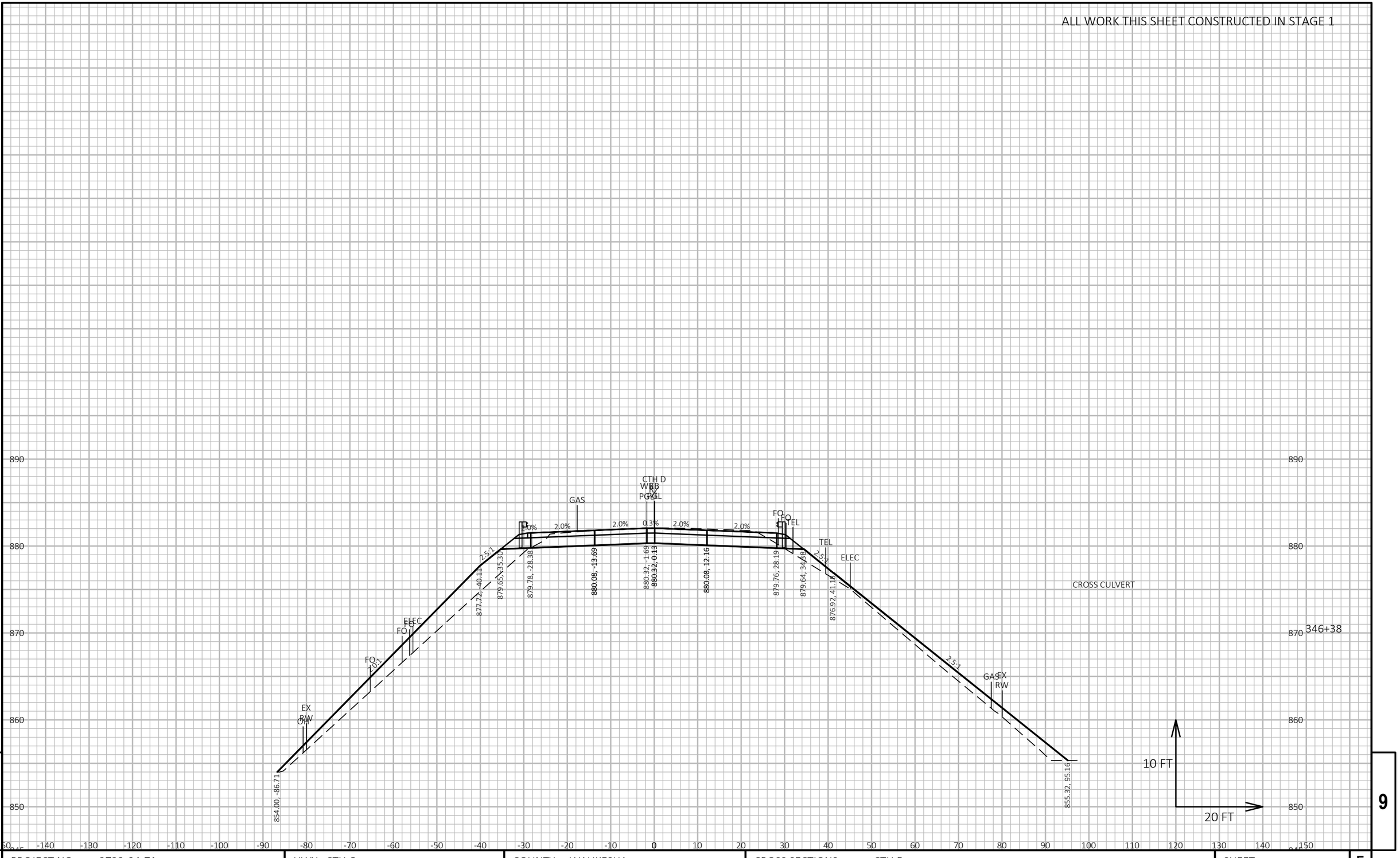
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



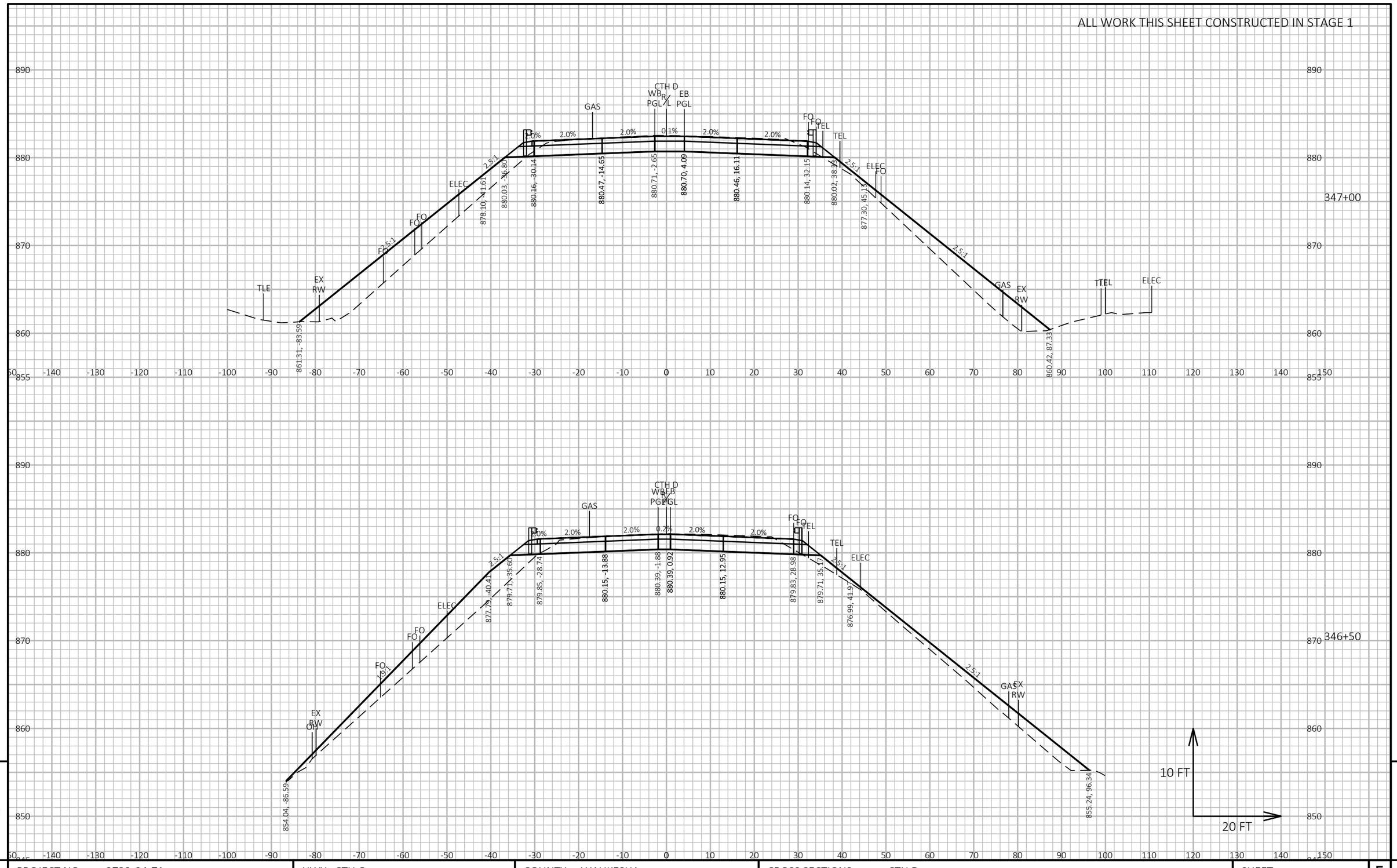
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 831	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 71

PLOT DATE : 4/28/2026 9:35 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 832 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 72

PLOT DATE : 4/28/2026 9:35 AM

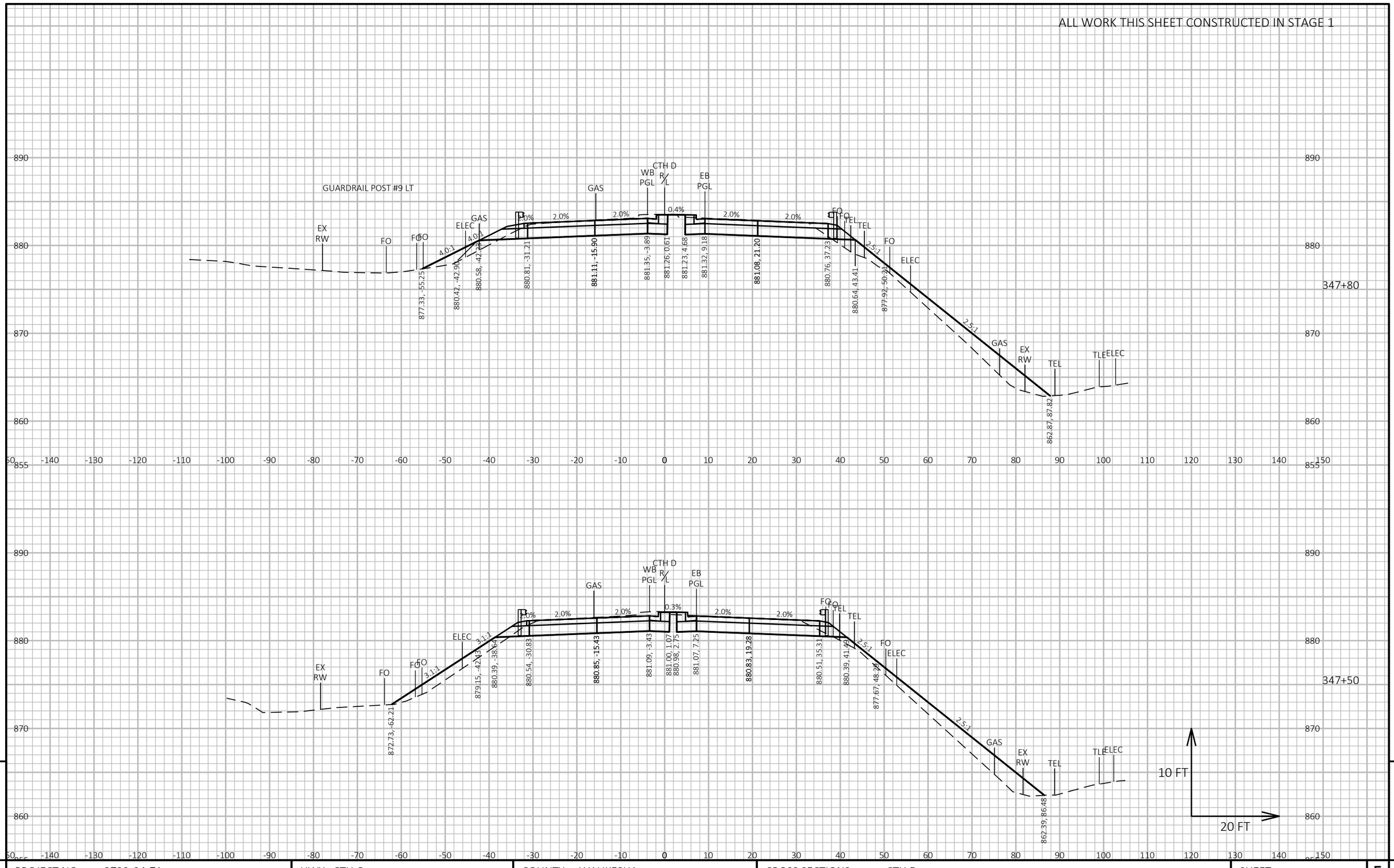
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 833	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 73

PLOT DATE : 4/28/2026 9:36 AM

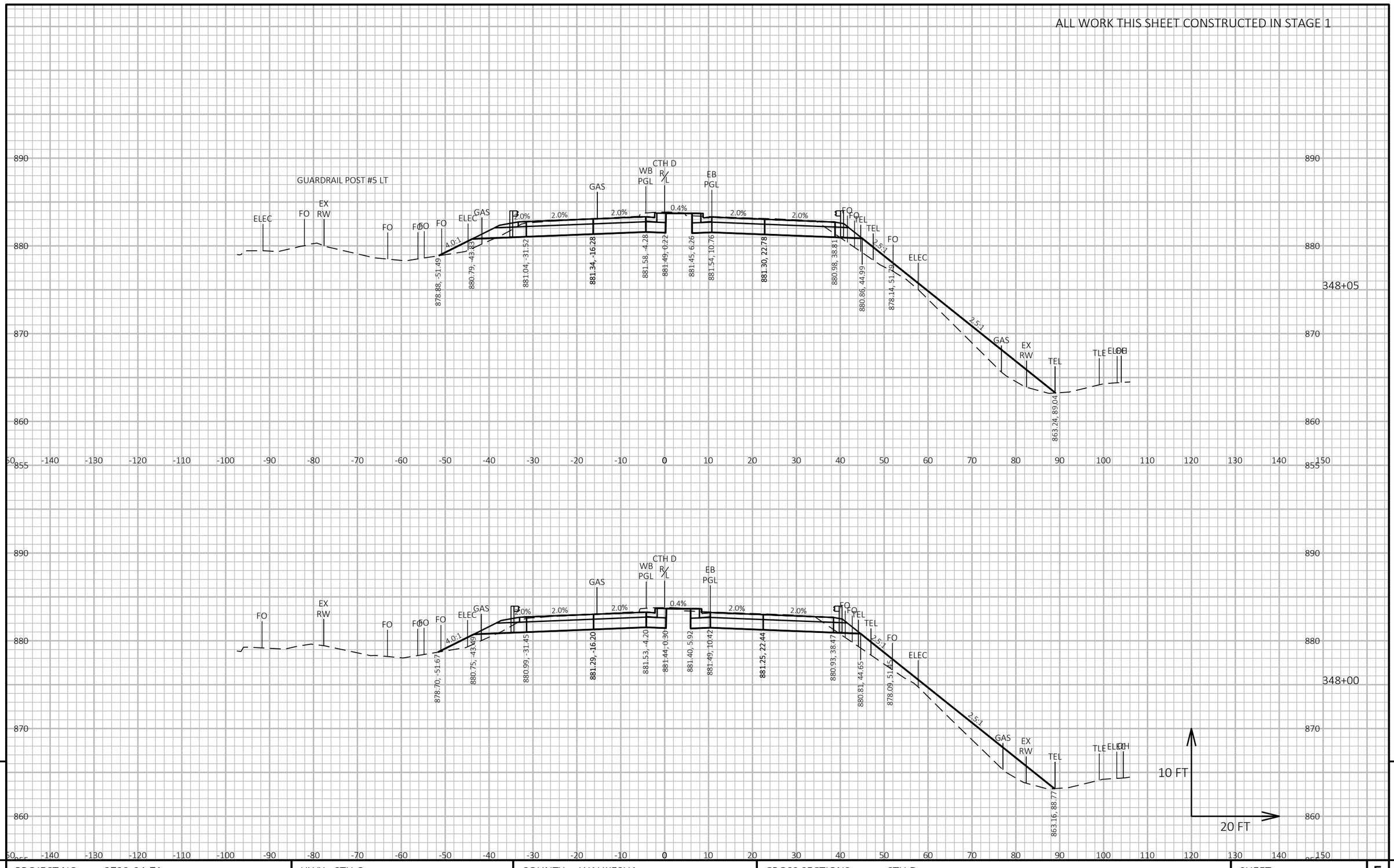
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



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9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 834	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 74

PLOT DATE : 4/28/2026 9:36 AM

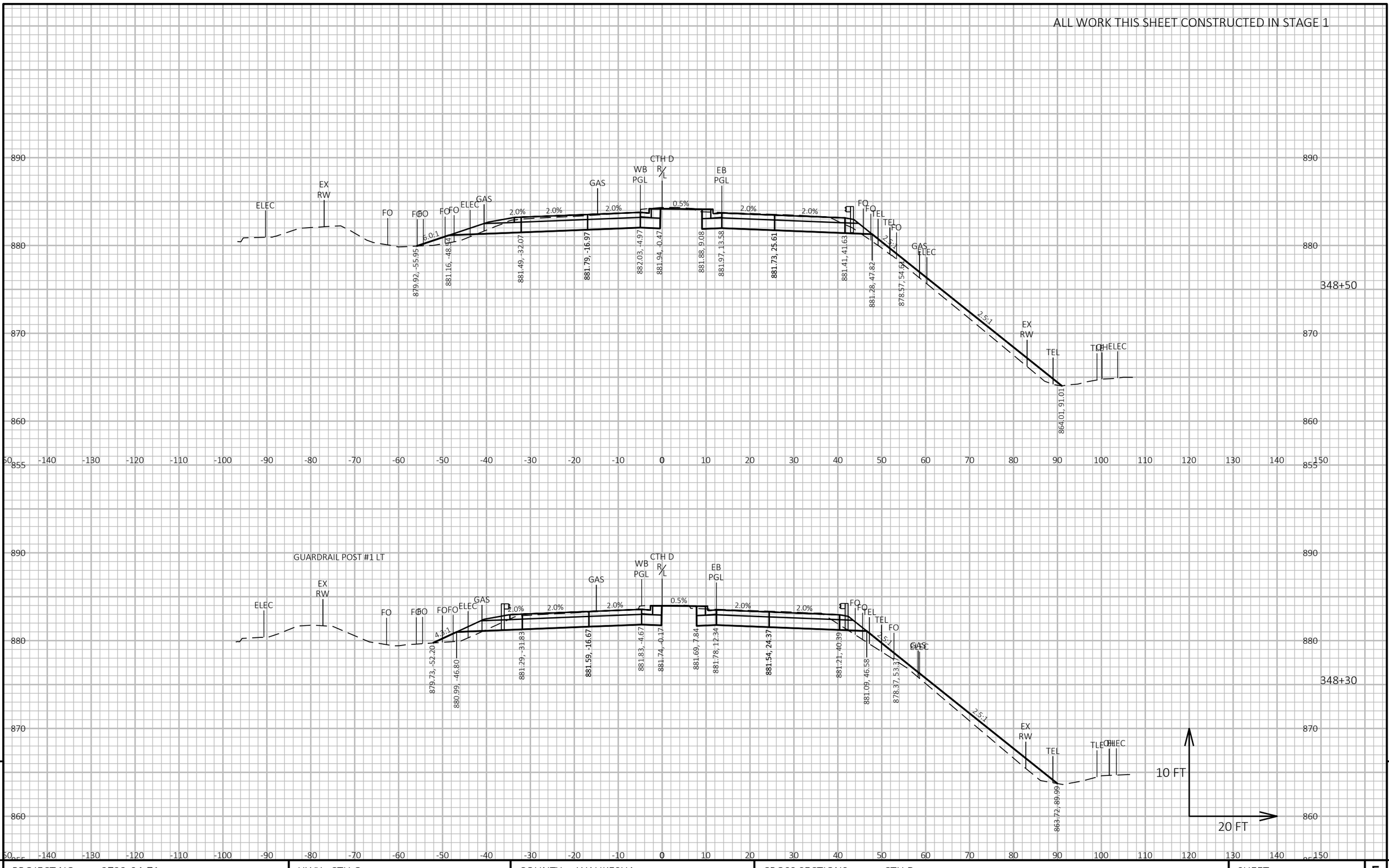
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 835	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 75

PLOT DATE : 4/28/2026 9:36 AM

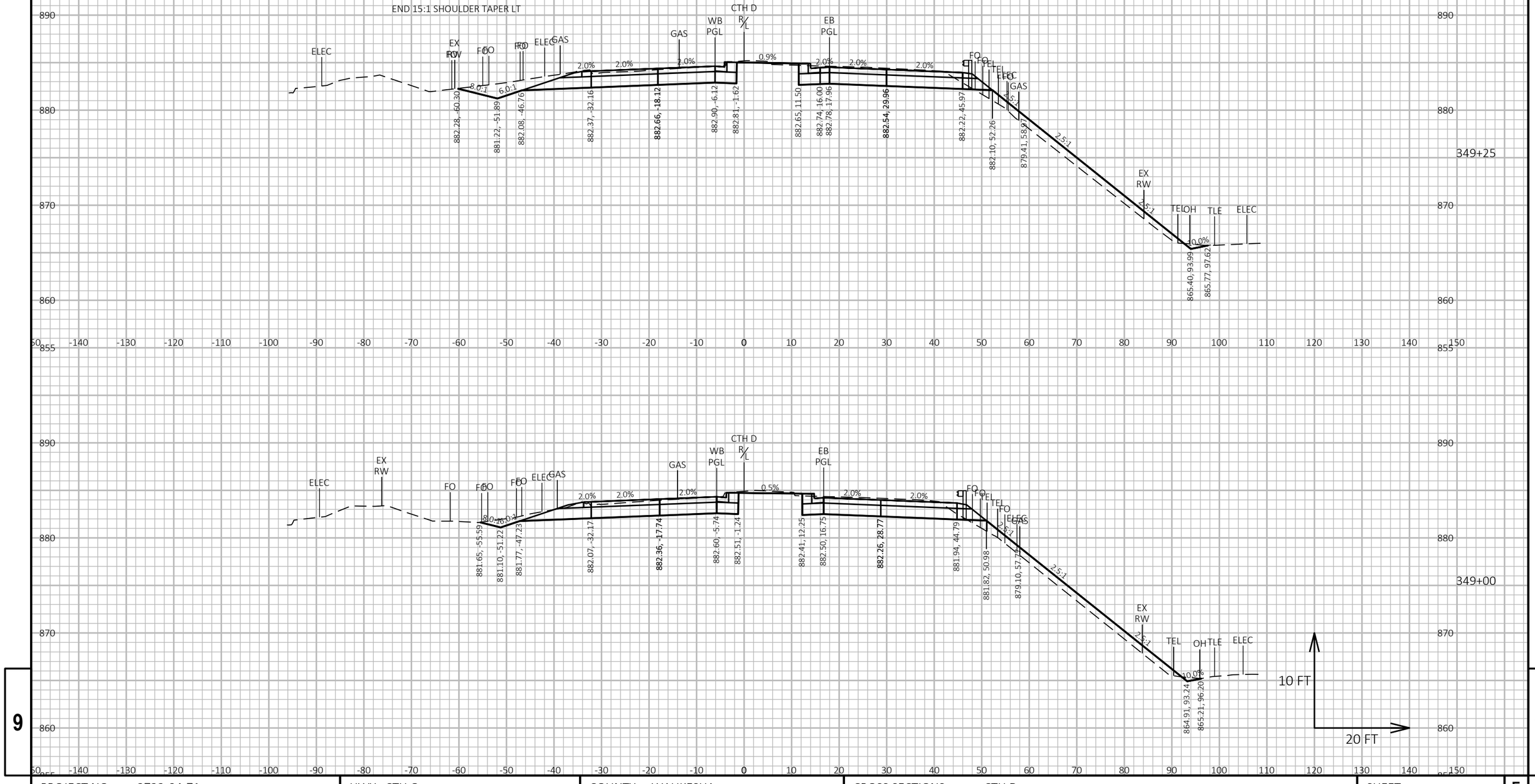
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 836	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 76

PLOT DATE : 4/28/2026 9:36 AM

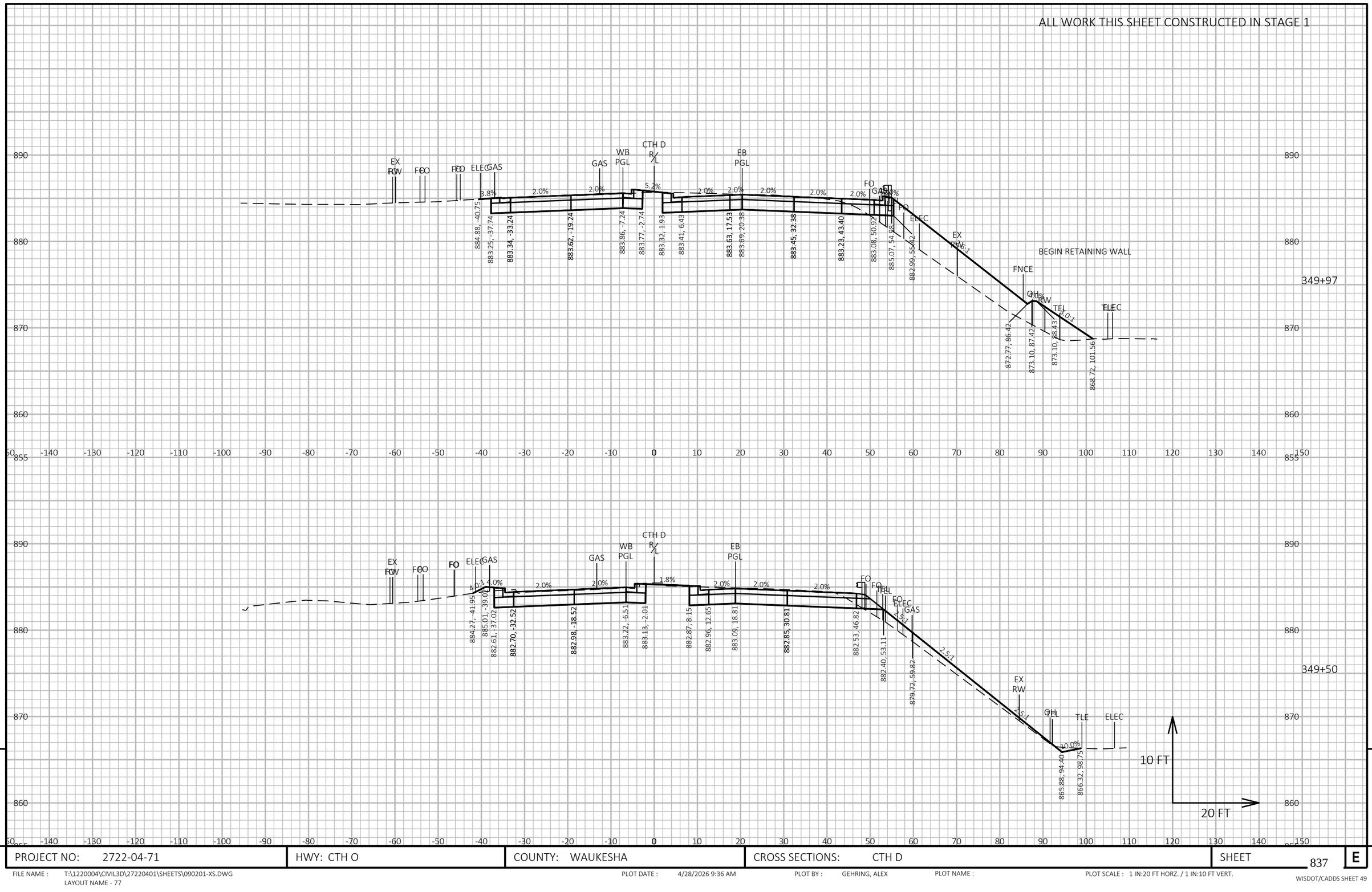
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



9 9

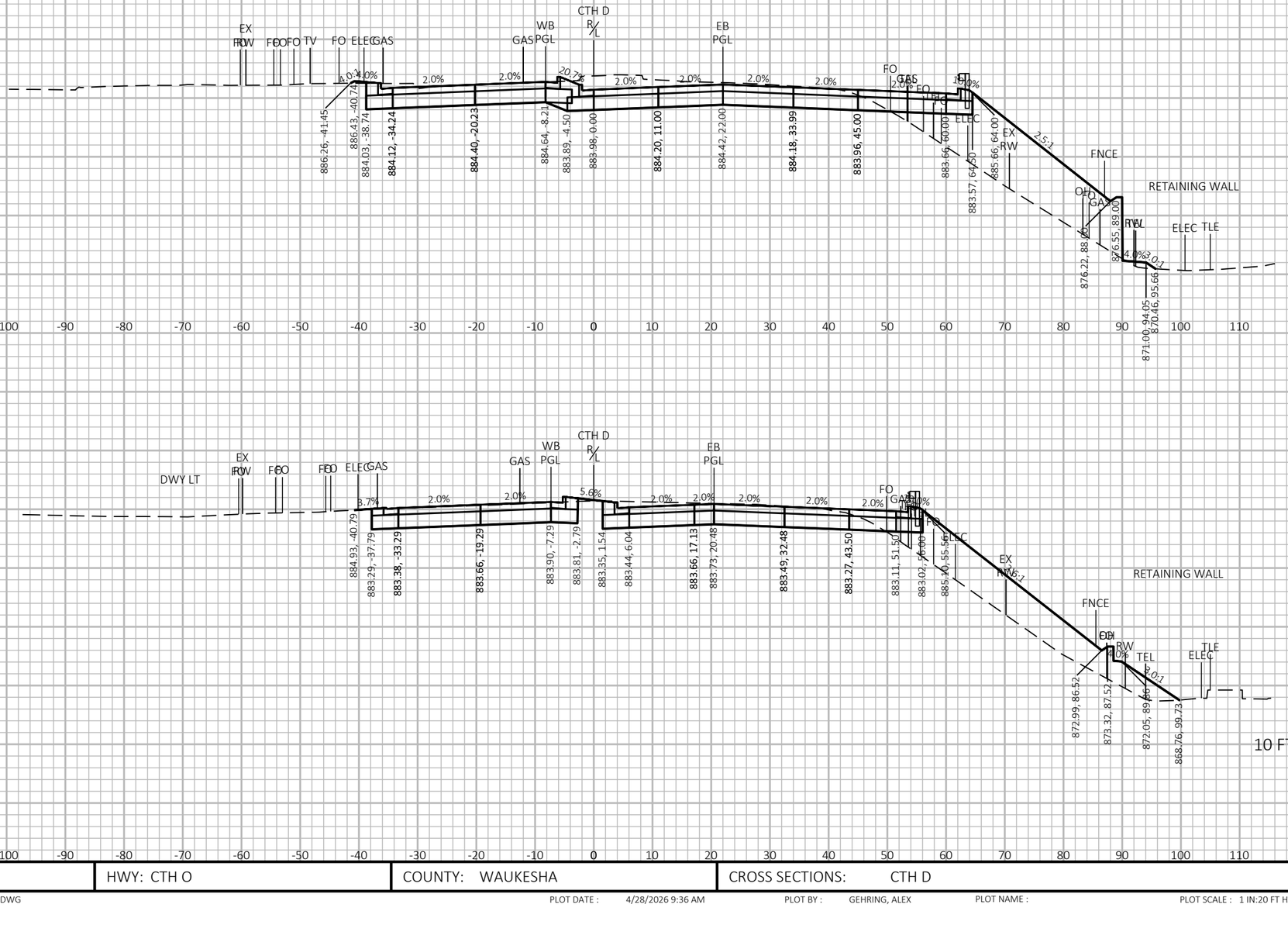
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 837	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 77

PLOT DATE : 4/28/2026 9:36 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 838	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 78

PLOT DATE : 4/28/2026 9:36 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 839 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 79

PLOT DATE : 4/28/2026 9:36 AM

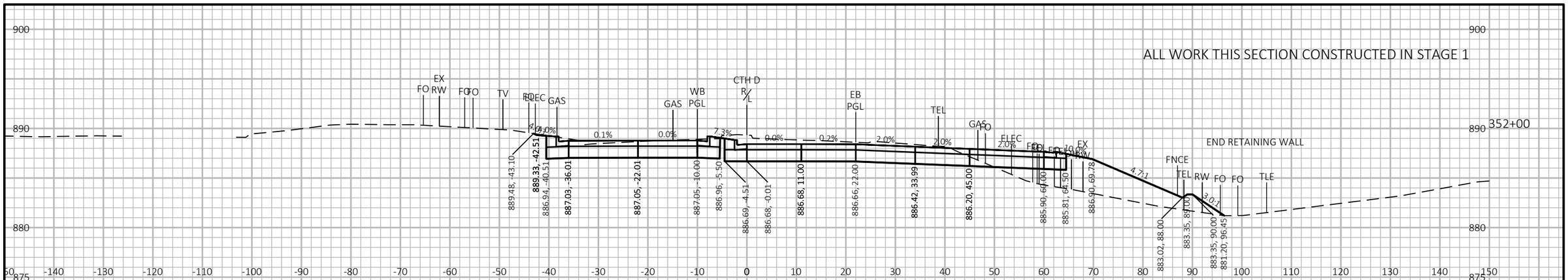
PLOT BY : GEHRING, ALEX

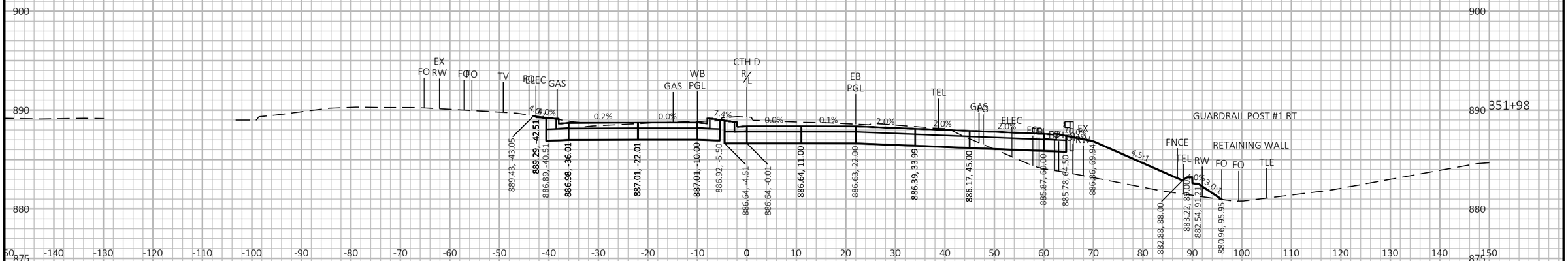
PLOT NAME :

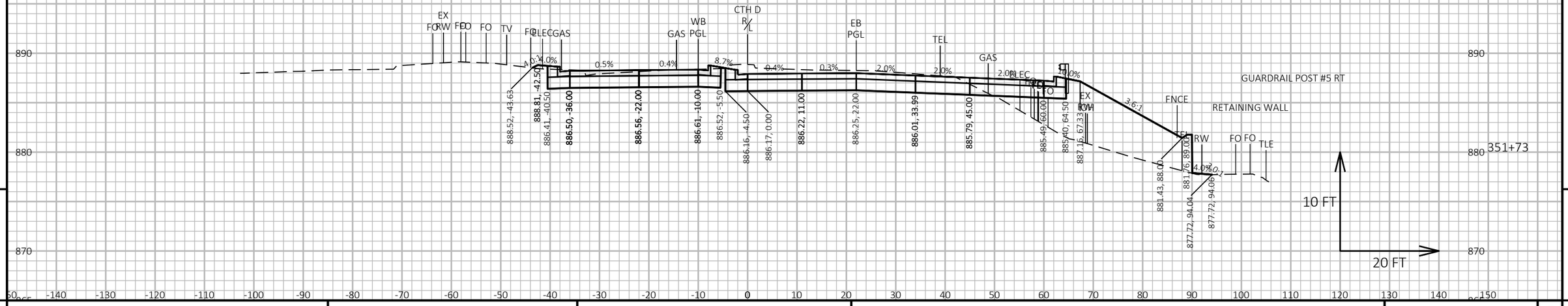
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SECTION CONSTRUCTED IN STAGE 1







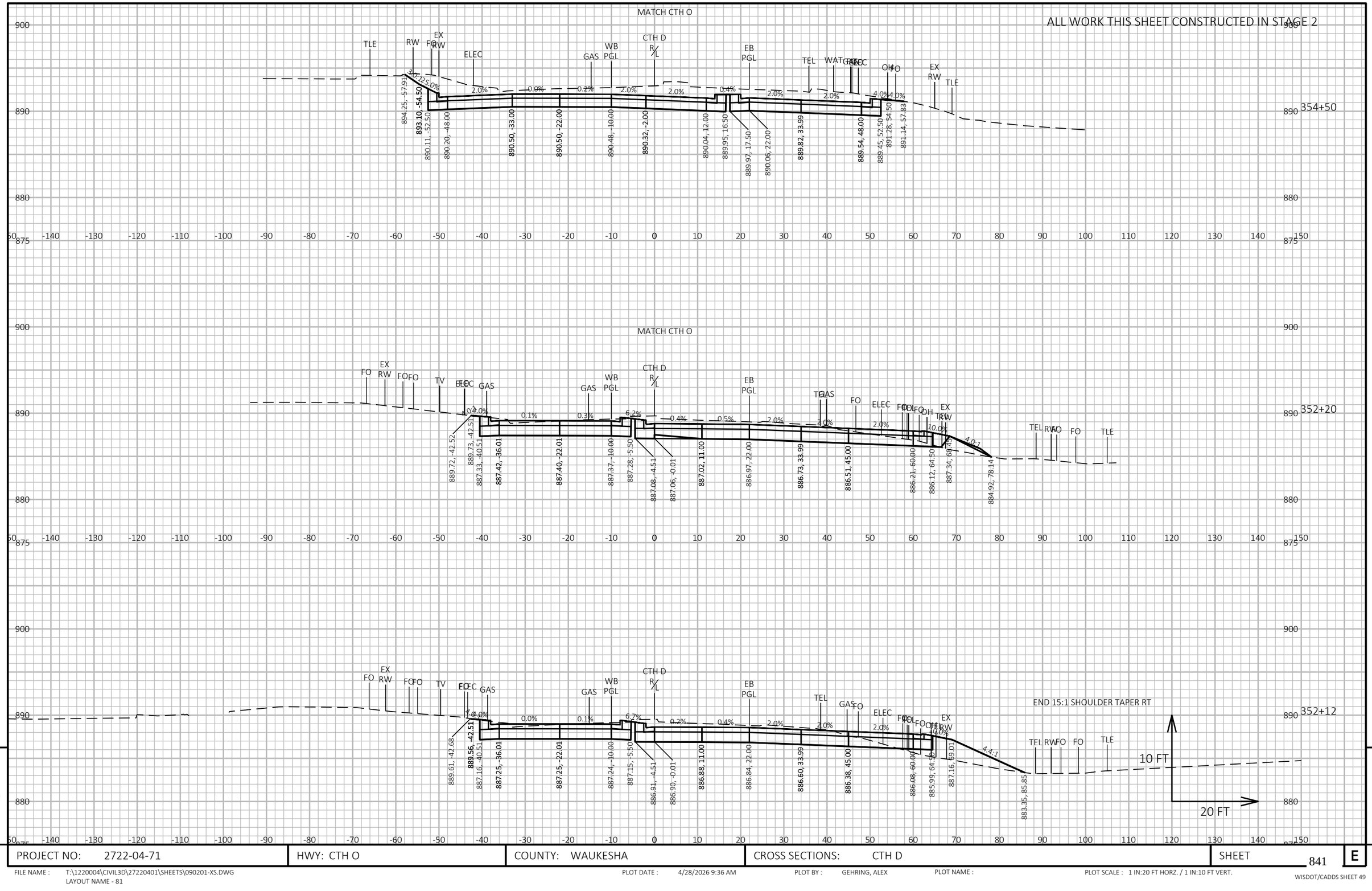
9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 840	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 80
PLOT DATE : 4/28/2026 9:36 AM
PLOT BY : GEHRING, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 841	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 81

PLOT DATE : 4/28/2026 9:36 AM

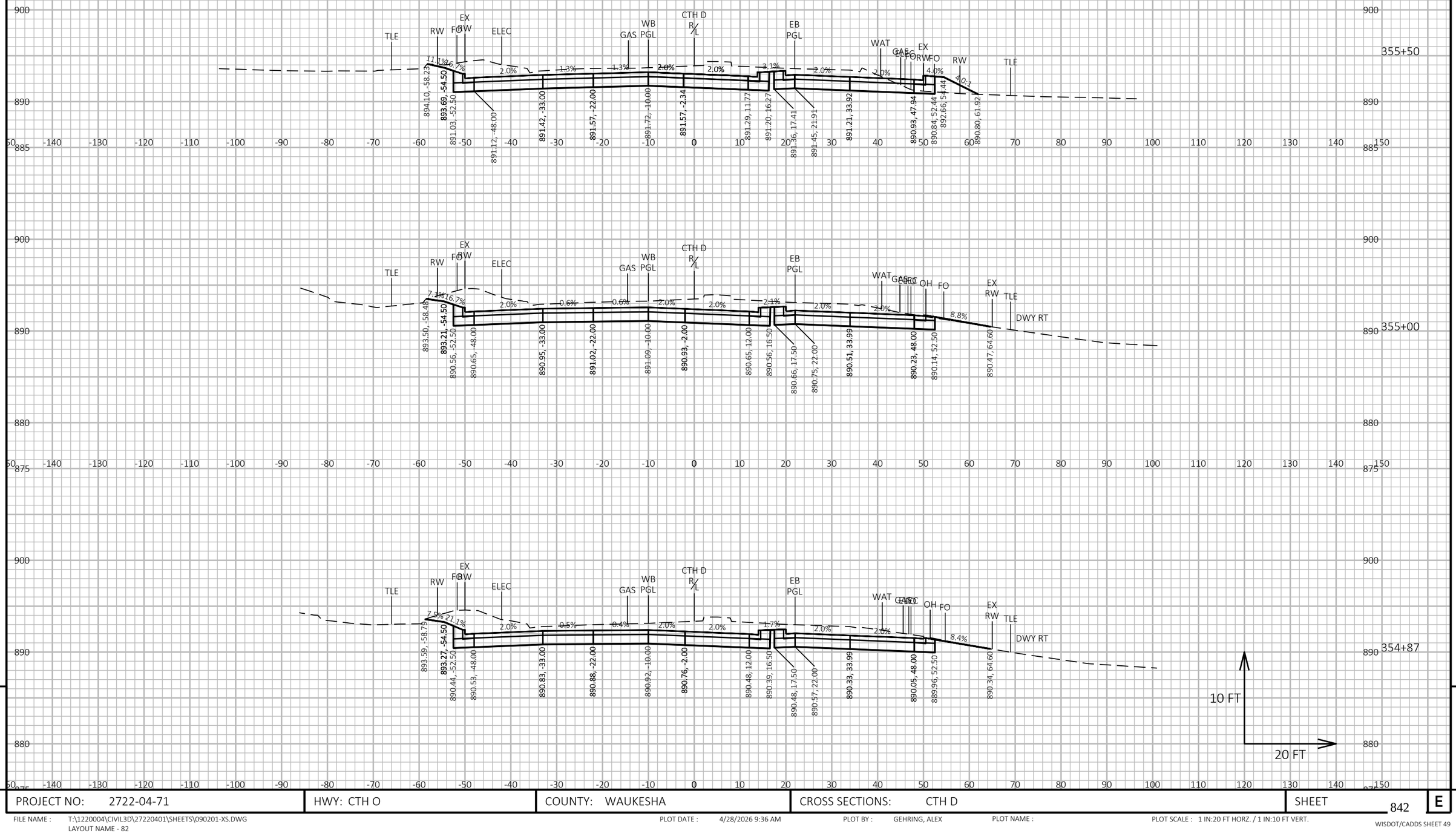
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 842	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 82

PLOT DATE : 4/28/2026 9:36 AM

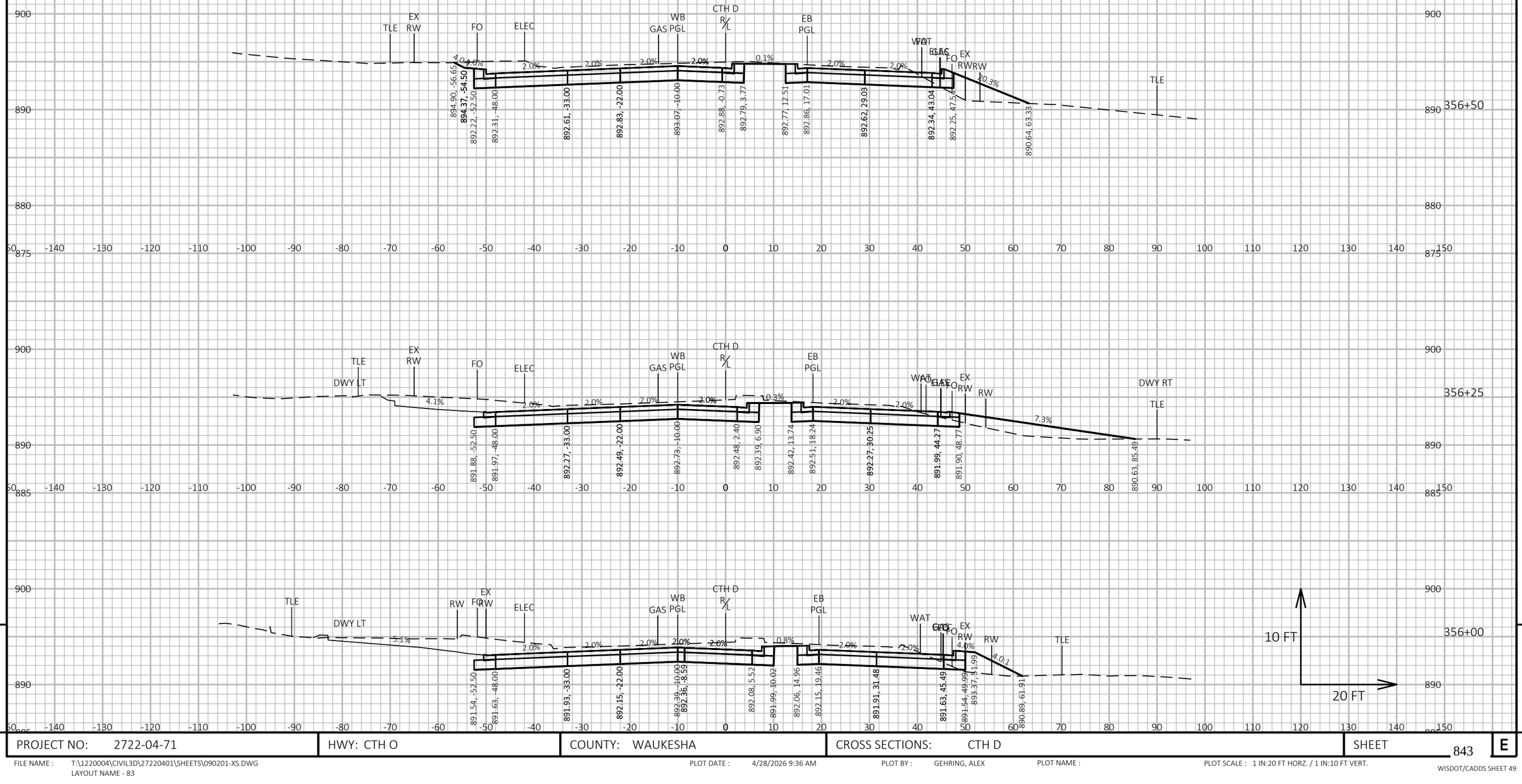
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SECTION CONSTRUCTED IN STAGE 1



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 843	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 83

PLOT DATE : 4/28/2026 9:36 AM

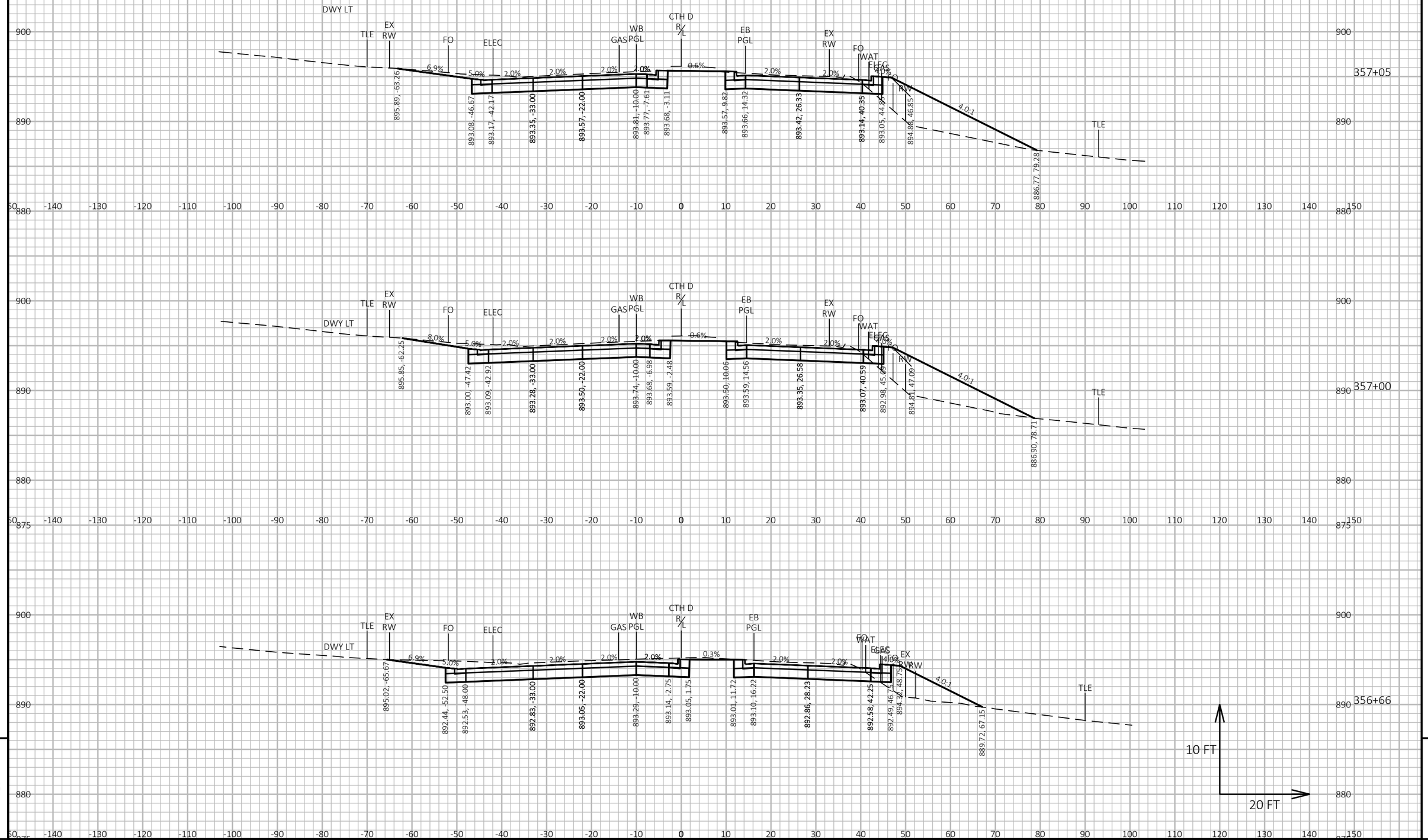
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 844 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 84

PLOT DATE : 4/28/2026 9:36 AM

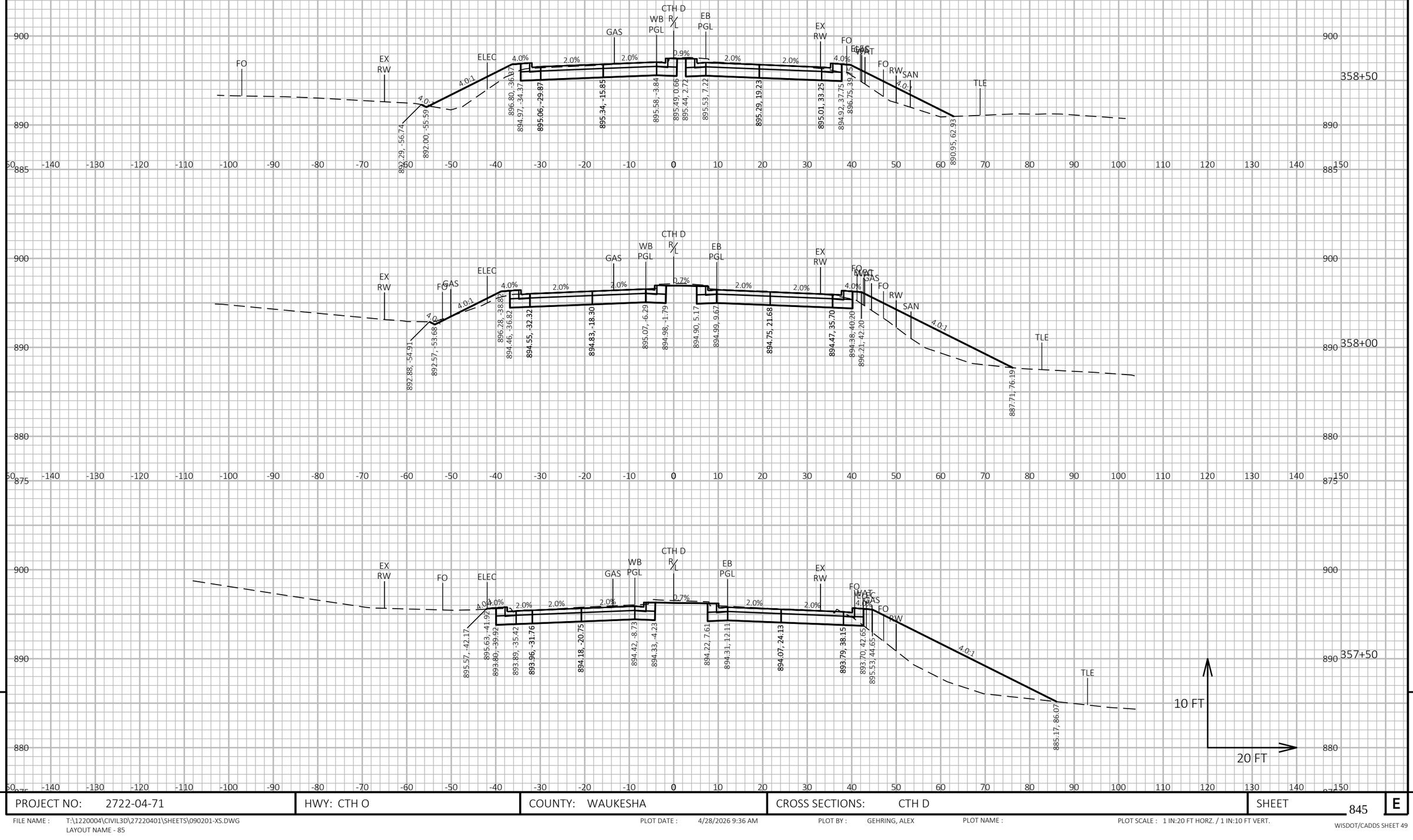
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2



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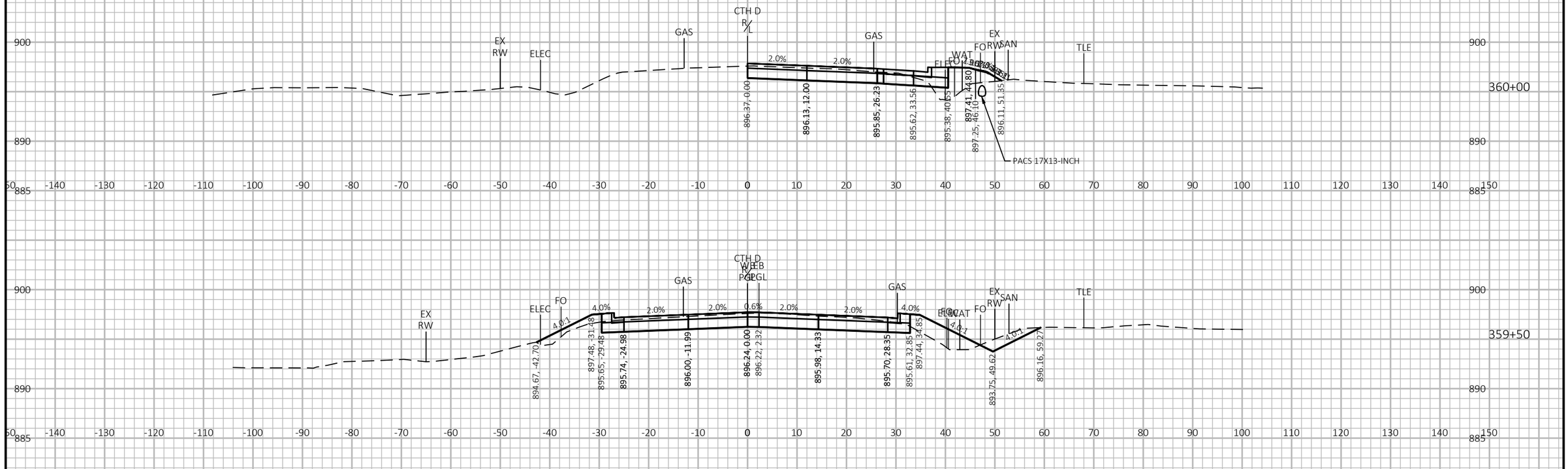
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 845	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 85

PLOT DATE : 4/28/2026 9:36 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 846	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 86

PLOT DATE : 4/28/2026 9:36 AM

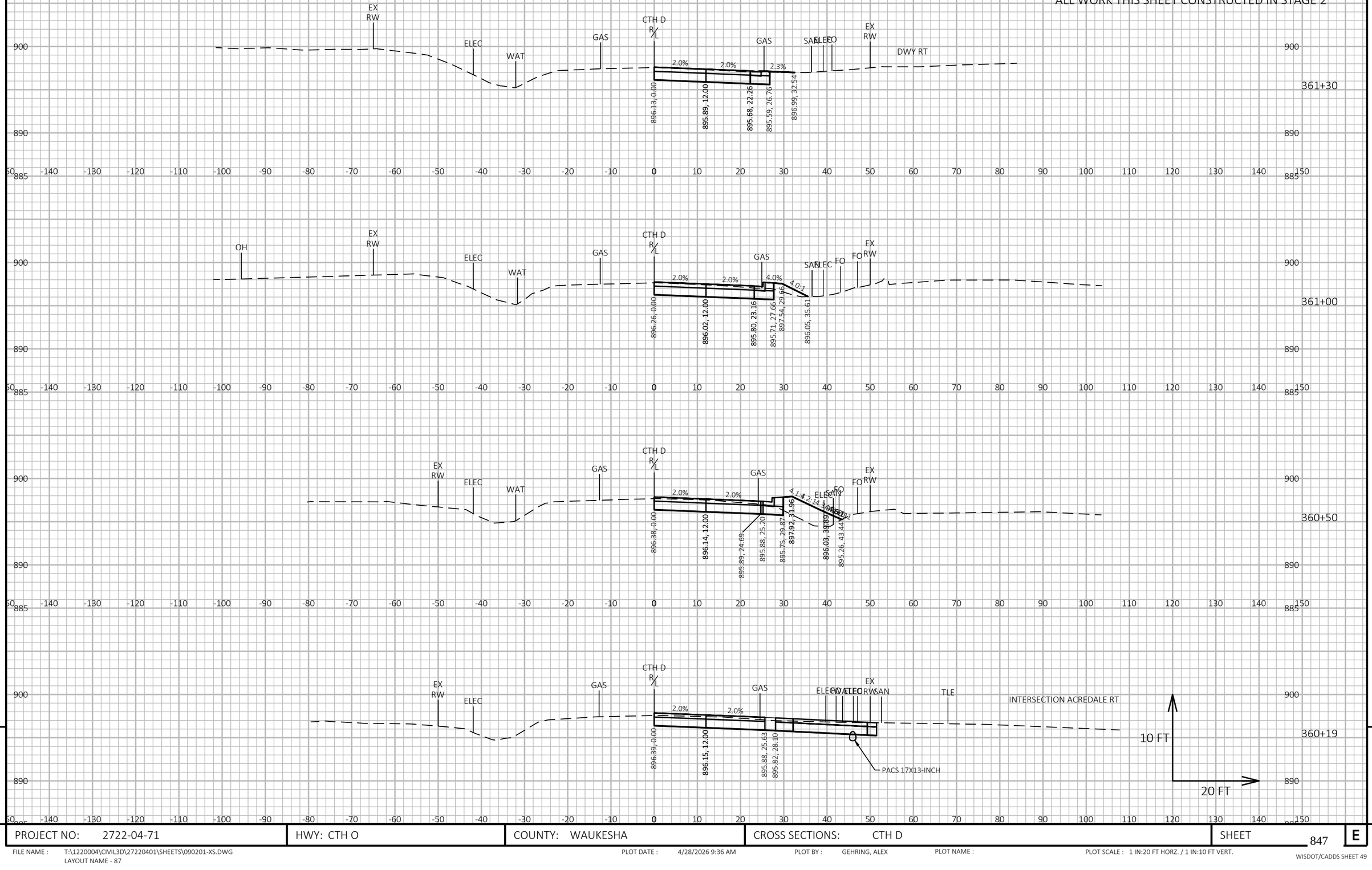
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 847	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 87

PLOT DATE : 4/28/2026 9:36 AM

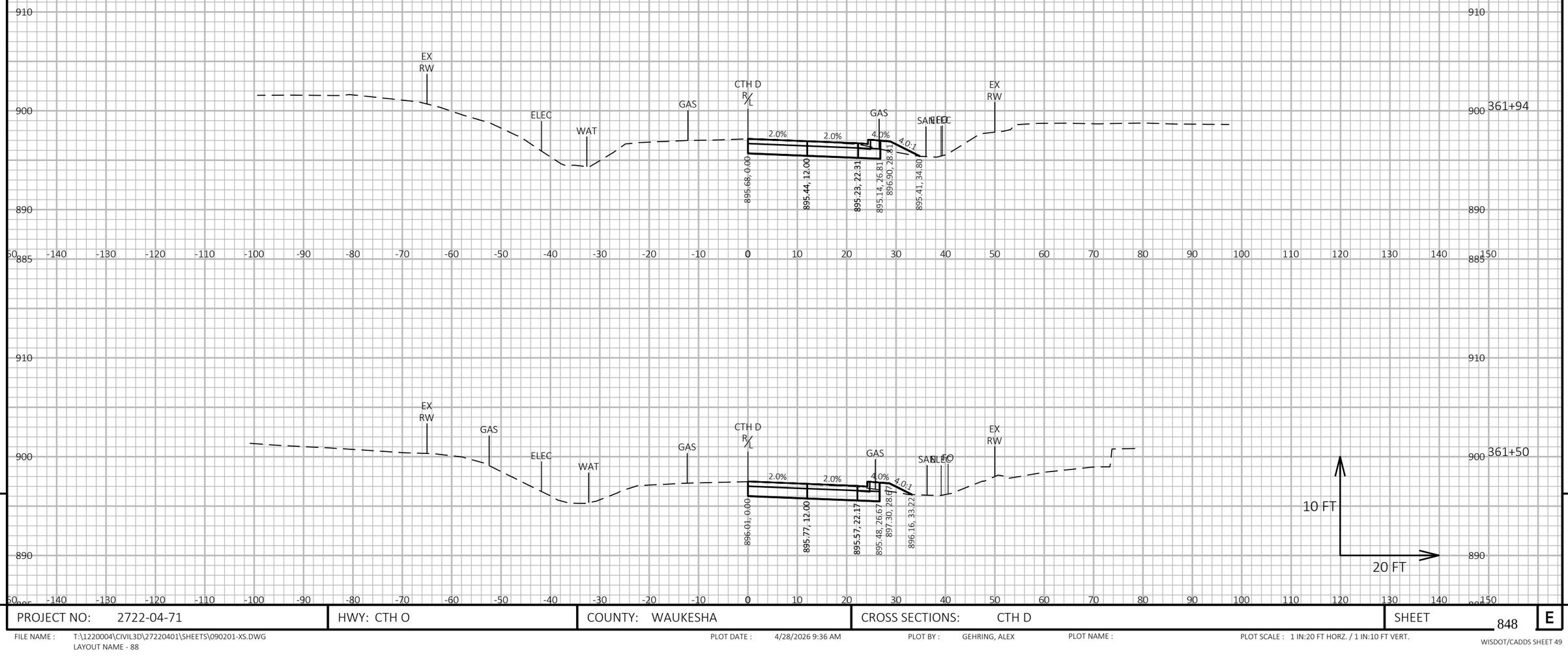
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2



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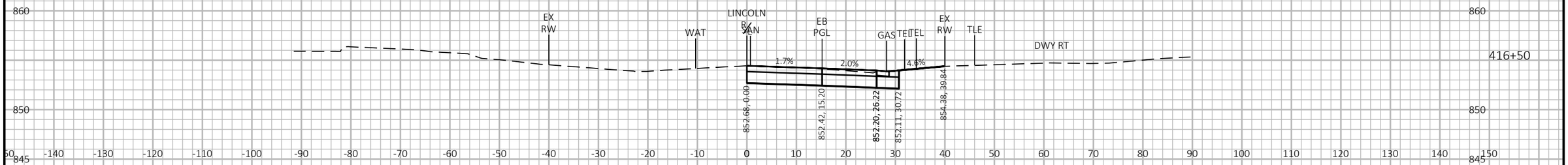
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: CTH D	SHEET 848	E

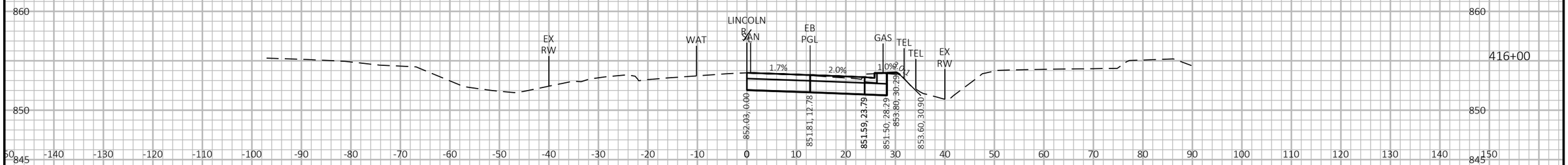
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090201-XS.DWG
LAYOUT NAME - 88

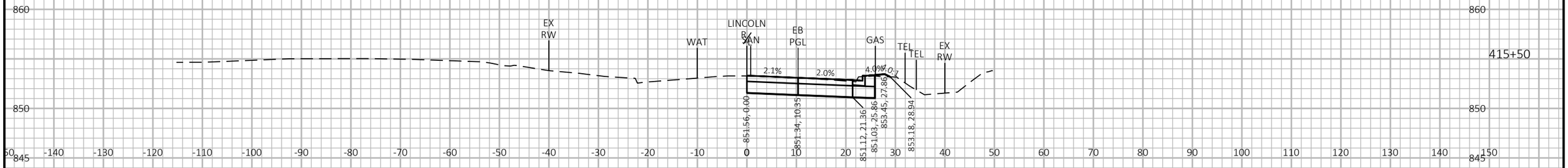
PLOT DATE : 4/28/2026 9:36 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

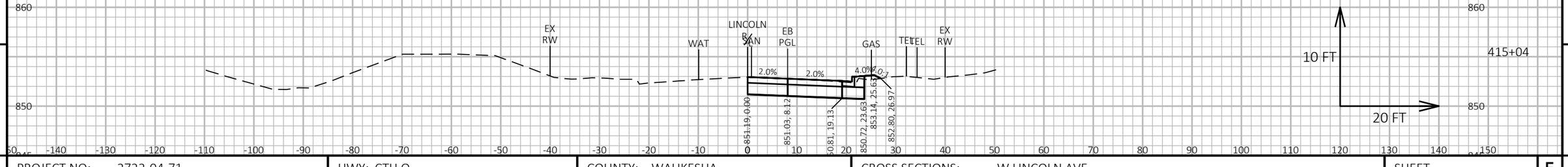
WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1









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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W LINCOLN AVE	SHEET 849 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 89

PLOT DATE : 4/28/2026 9:36 AM

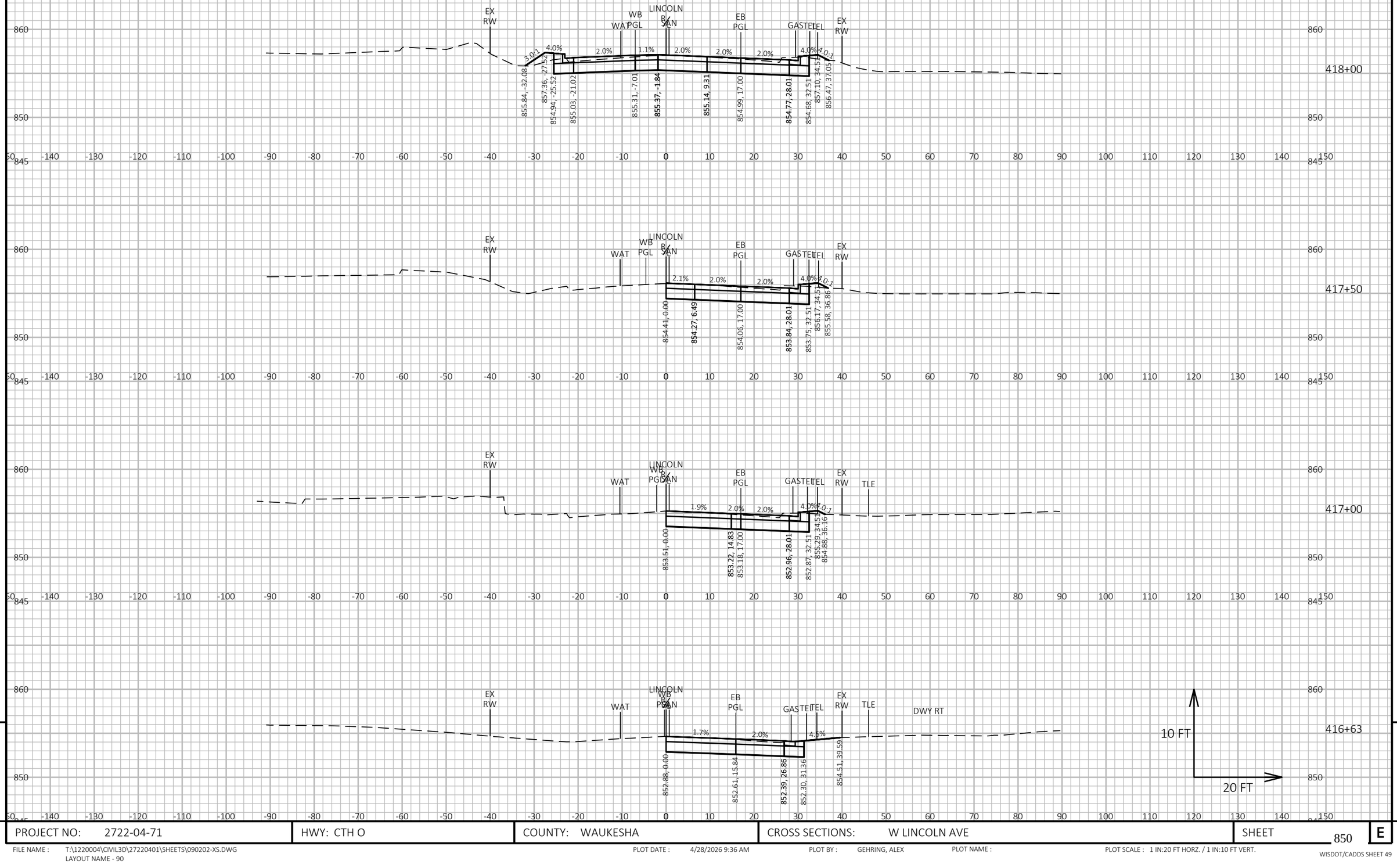
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



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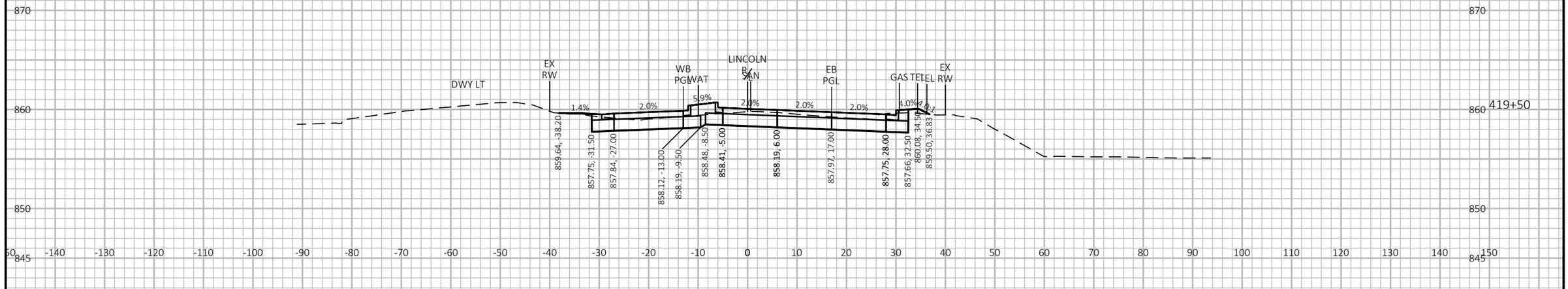
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W LINCOLN AVE	SHEET 850	E

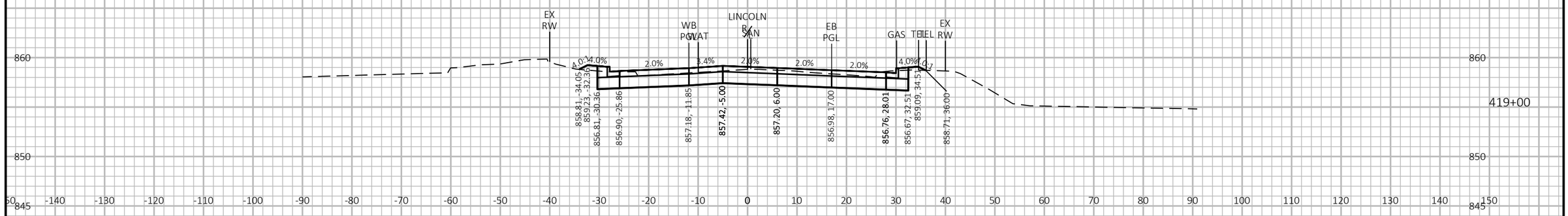
FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 90

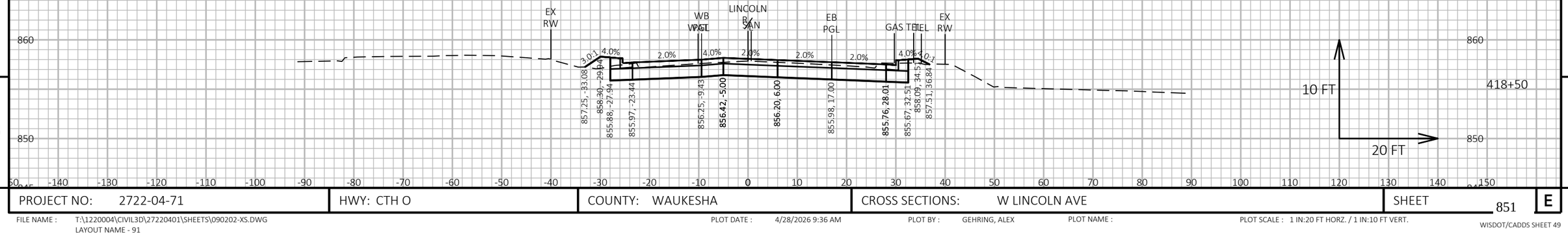
PLOT DATE : 4/28/2026 9:36 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1







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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W LINCOLN AVE	SHEET 851	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 91

PLOT DATE : 4/28/2026 9:36 AM

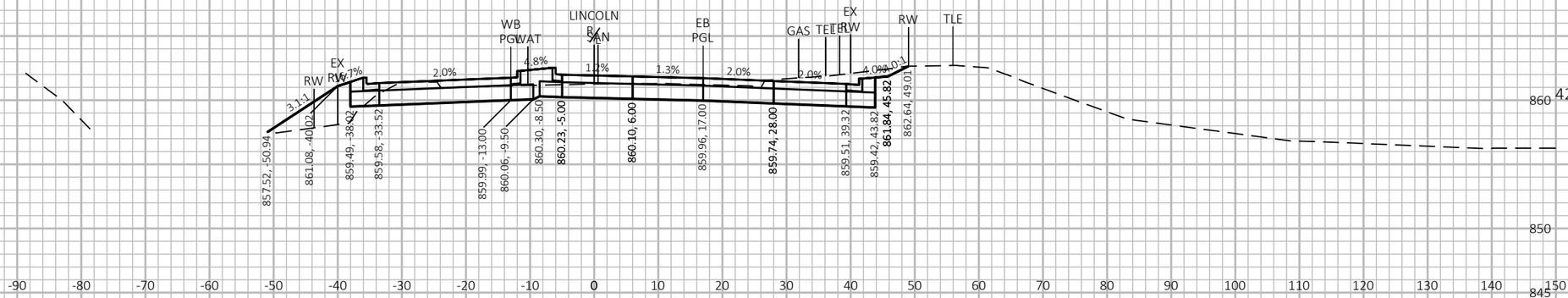
PLOT BY : GEHRING, ALEX

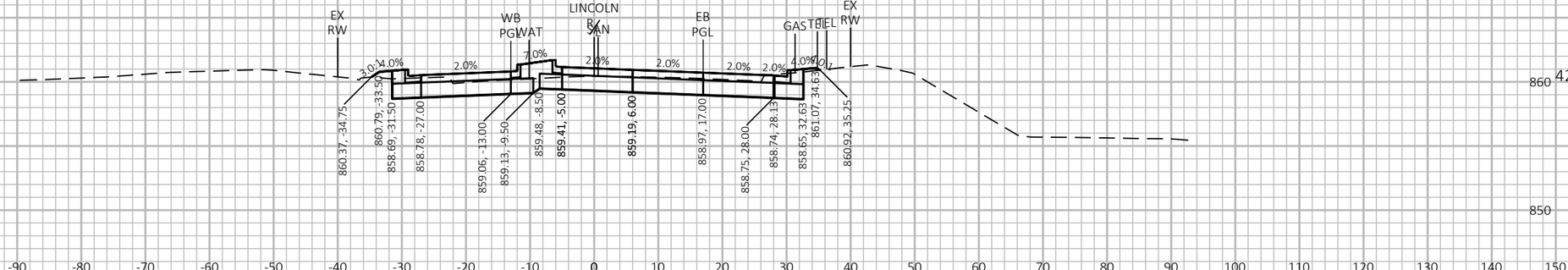
PLOT NAME :

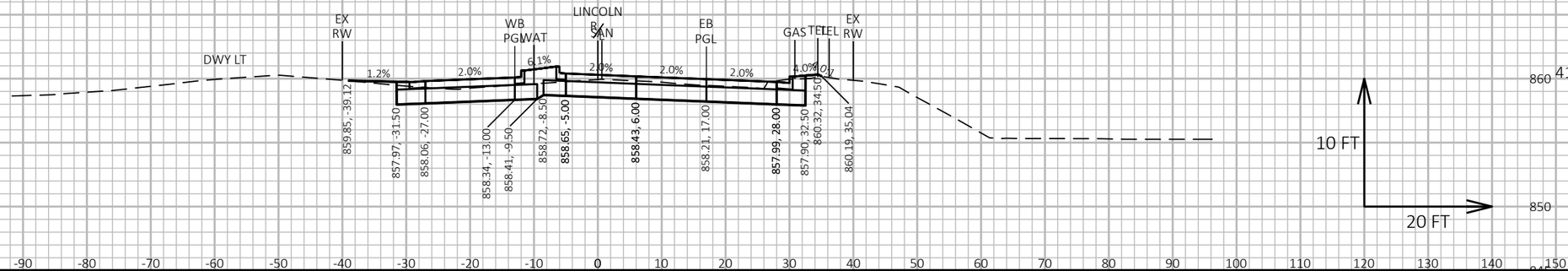
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1







9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W LINCOLN AVE	SHEET 852	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 92

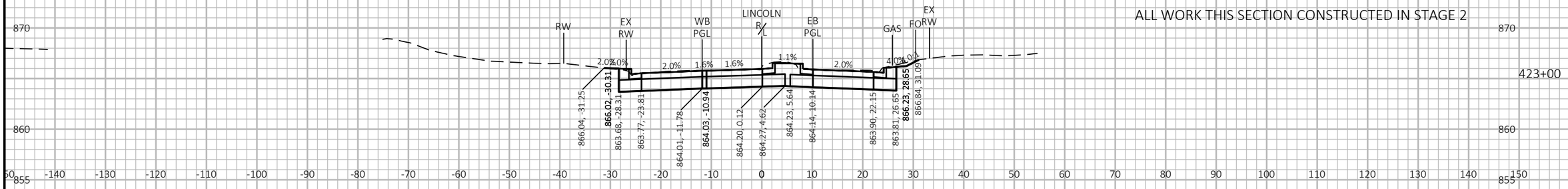
PLOT DATE : 4/28/2026 9:36 AM

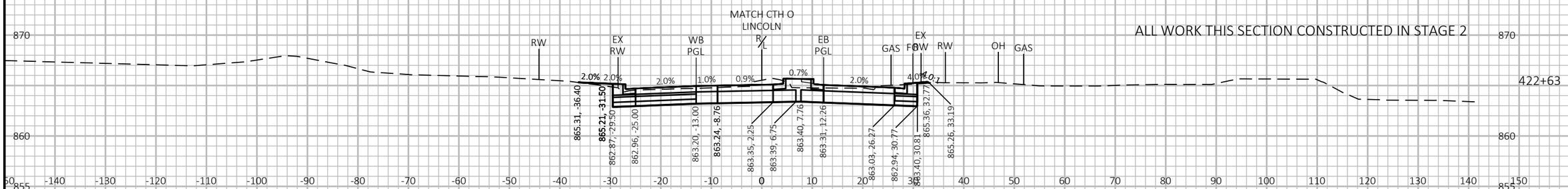
PLOT BY : GEHRING, ALEX

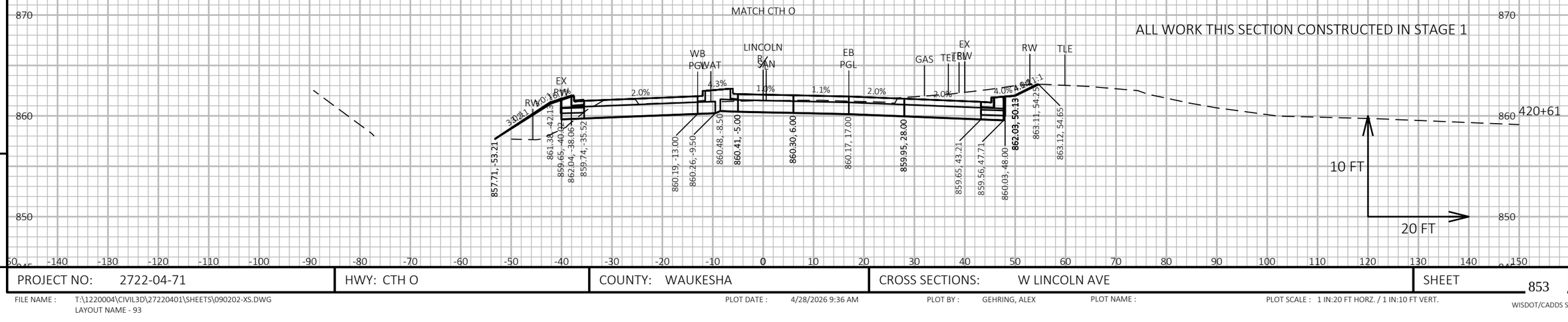
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W LINCOLN AVE	SHEET 853	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 93

PLOT DATE : 4/28/2026 9:36 AM

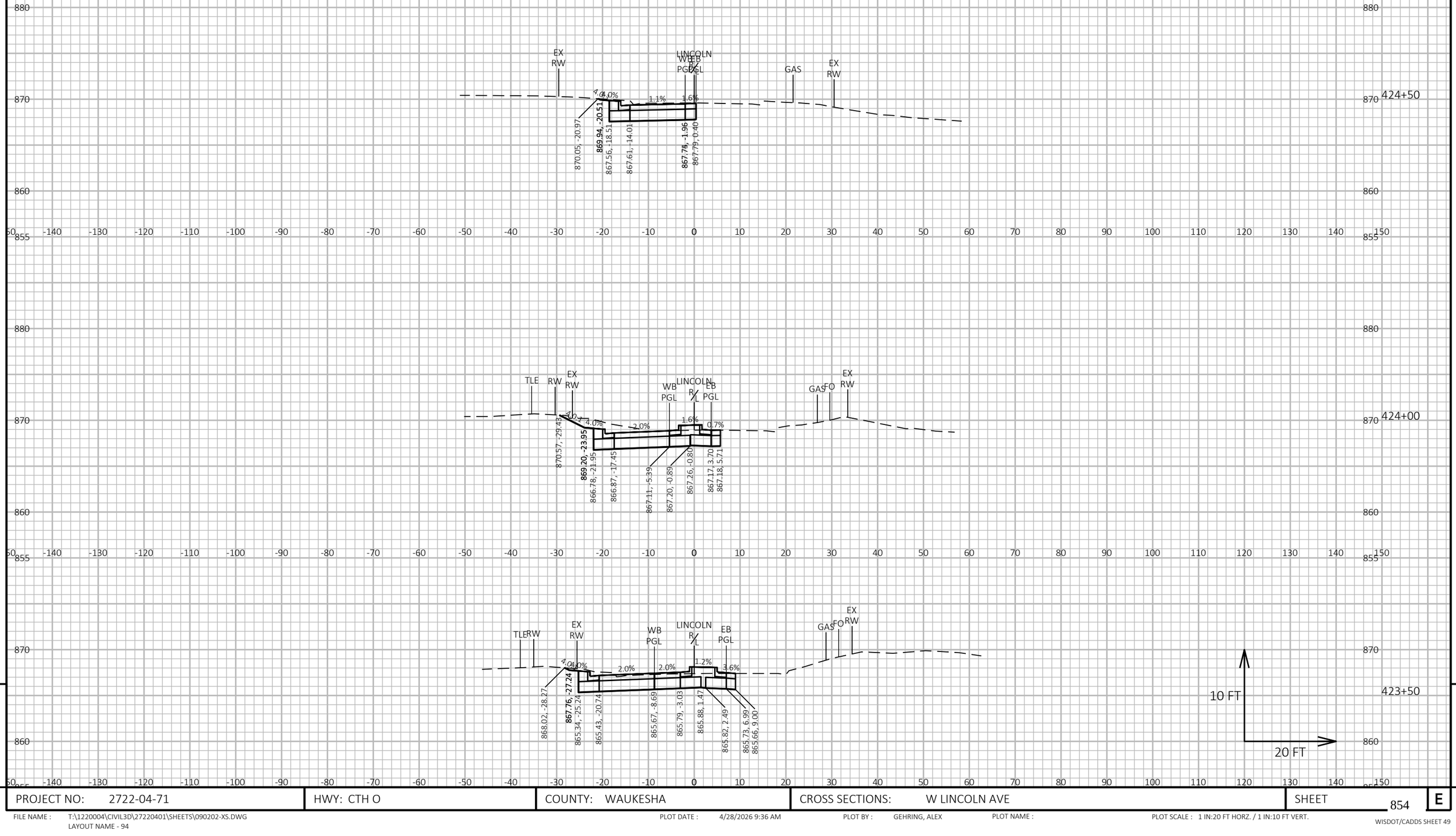
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W LINCOLN AVE	SHEET 854	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 94

PLOT DATE : 4/28/2026 9:36 AM

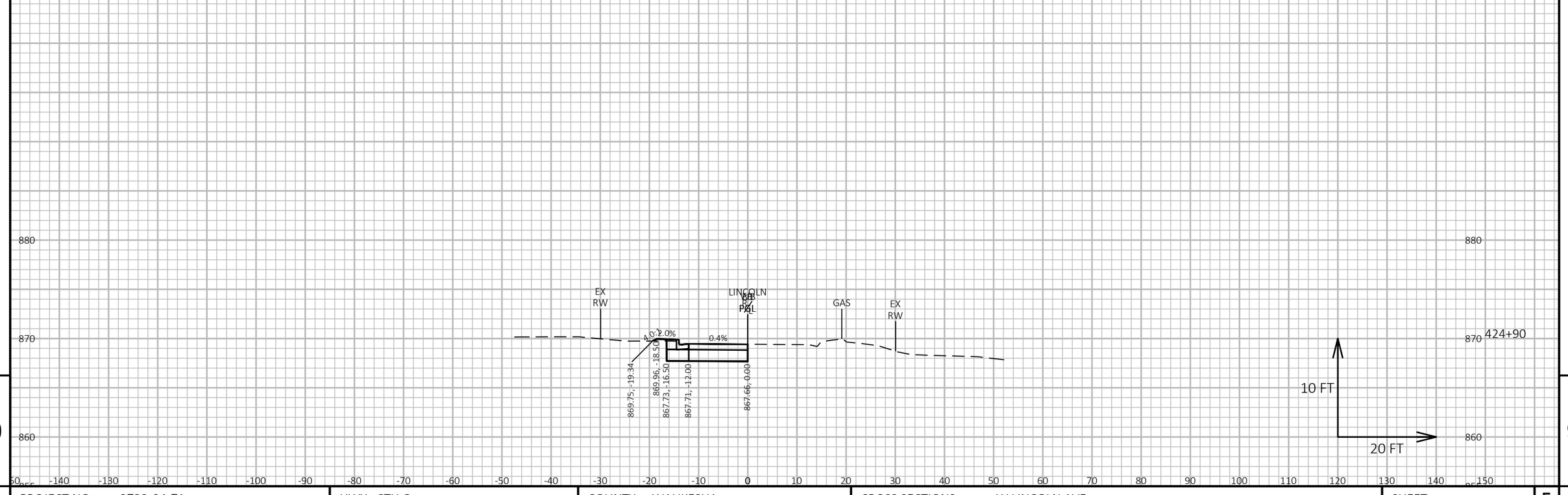
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2



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9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W LINCOLN AVE	SHEET 855	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 95

PLOT DATE : 4/28/2026 9:36 AM

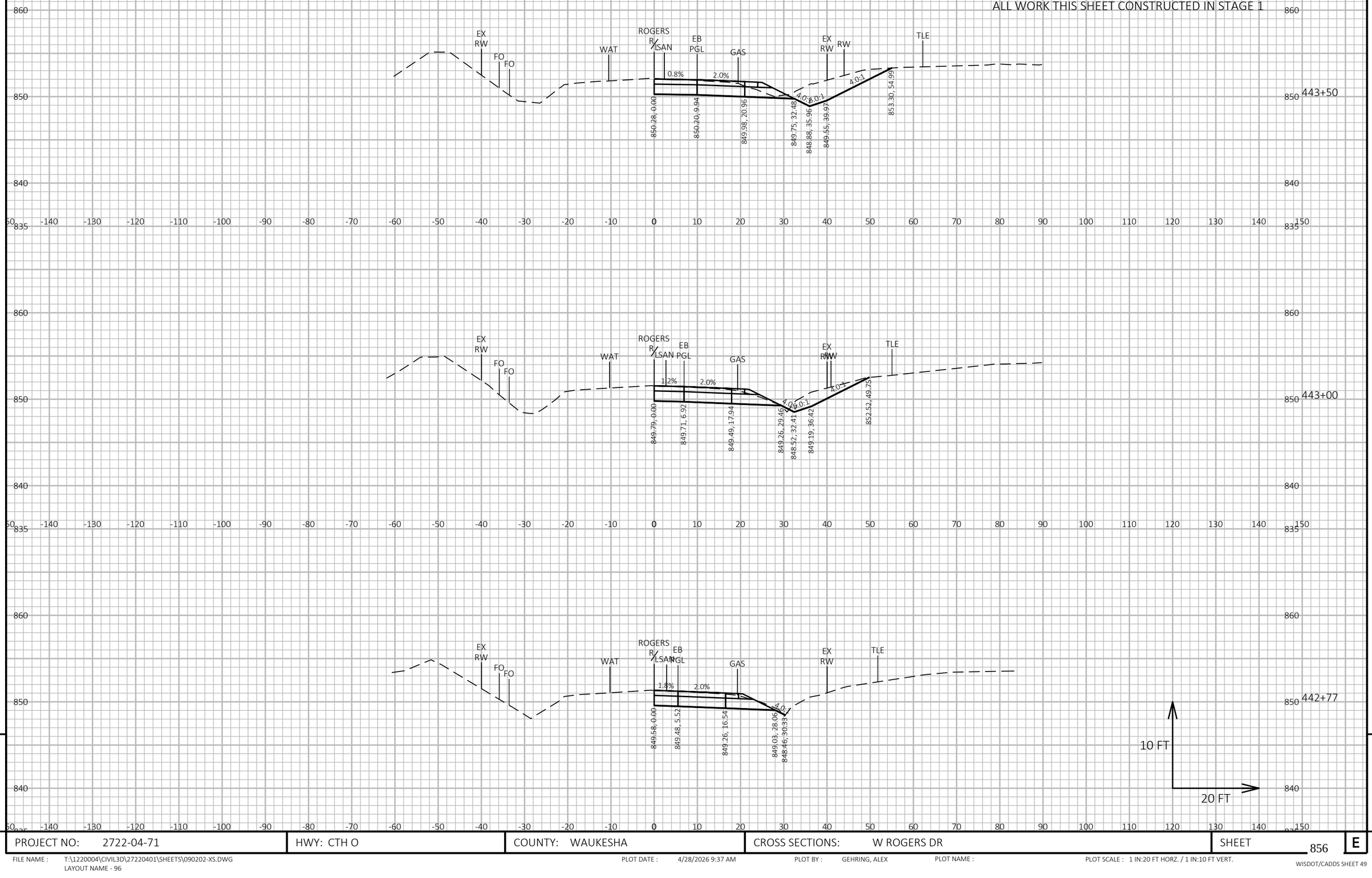
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W ROGERS DR	SHEET 856 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 96

PLOT DATE : 4/28/2026 9:37 AM

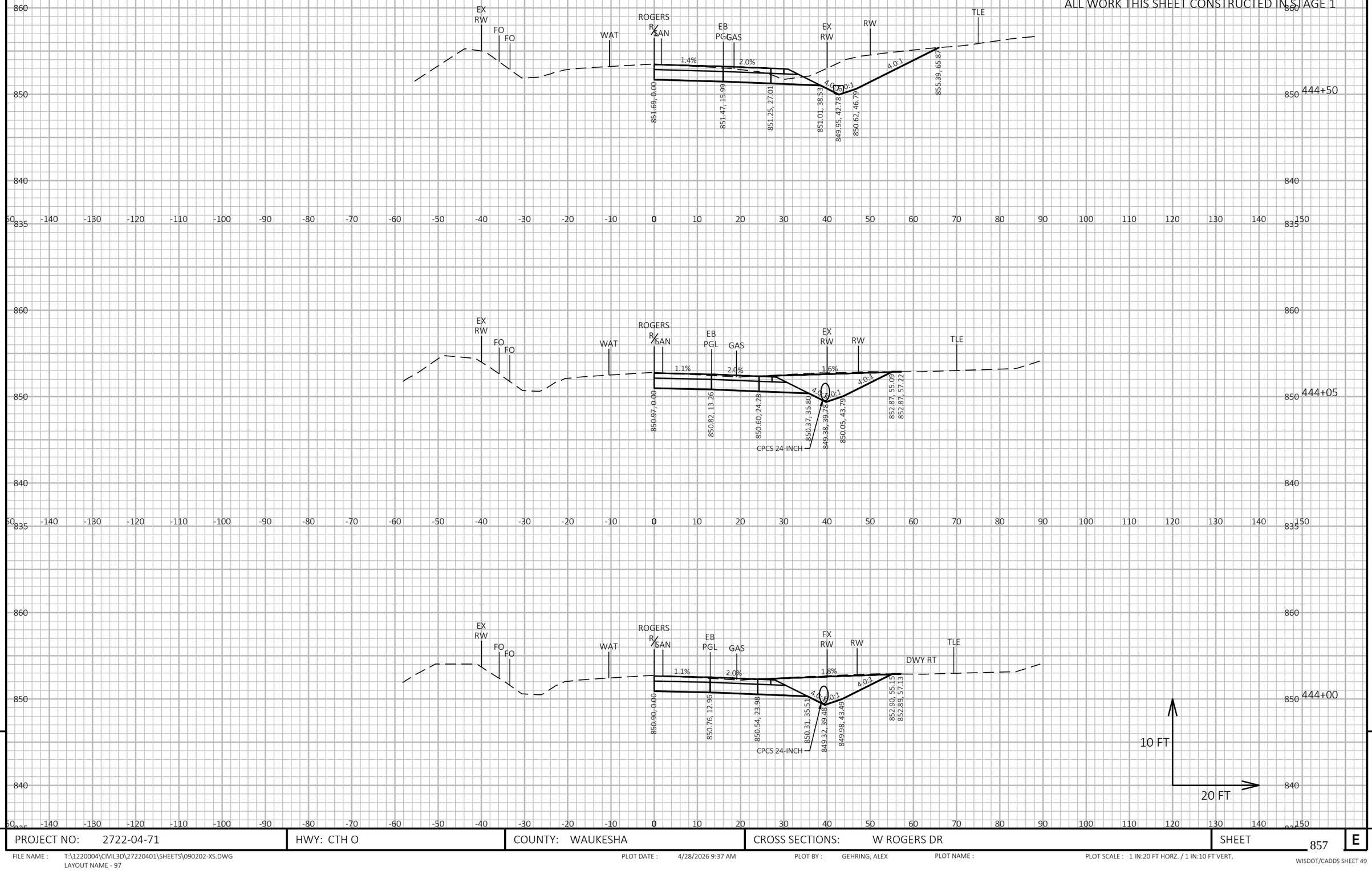
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W ROGERS DR	SHEET 857	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 97

PLOT DATE : 4/28/2026 9:37 AM

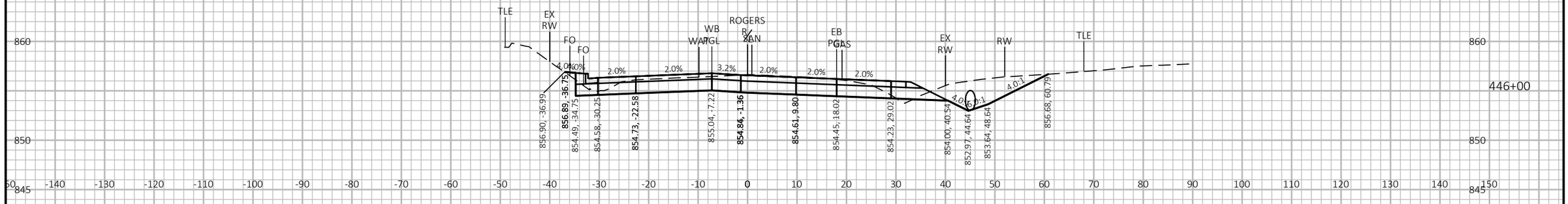
PLOT BY : GEHRING, ALEX

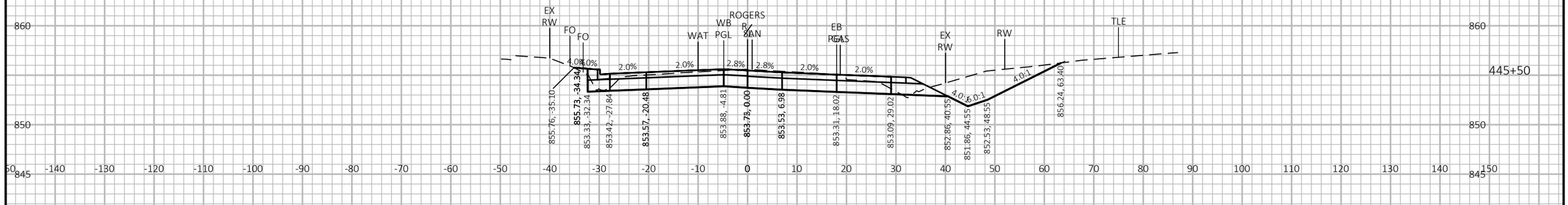
PLOT NAME :

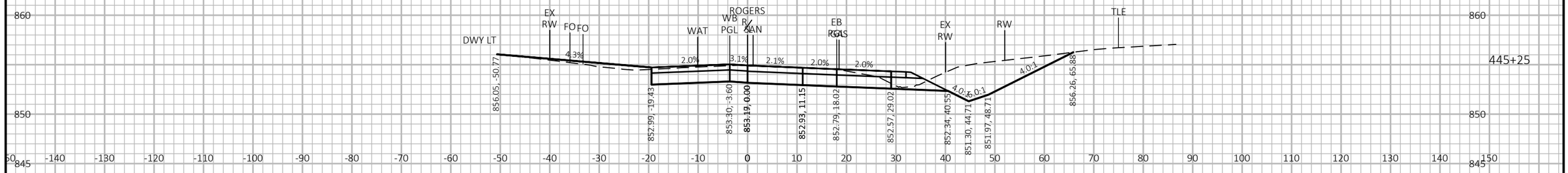
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

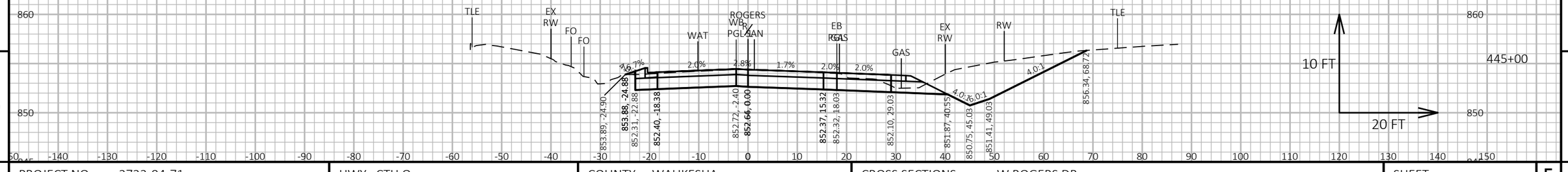
WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1







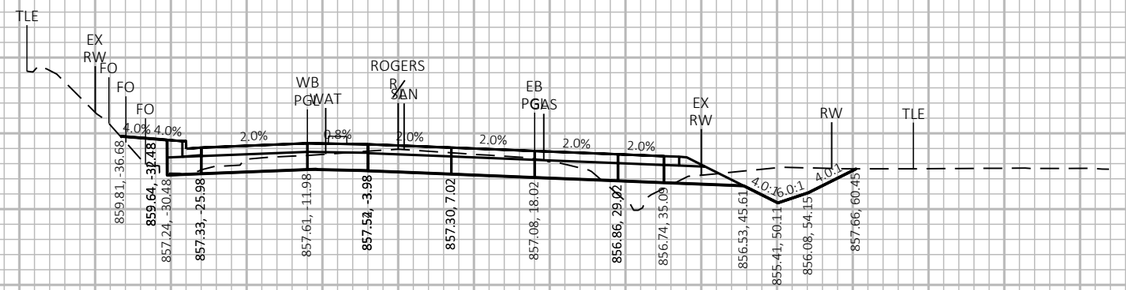


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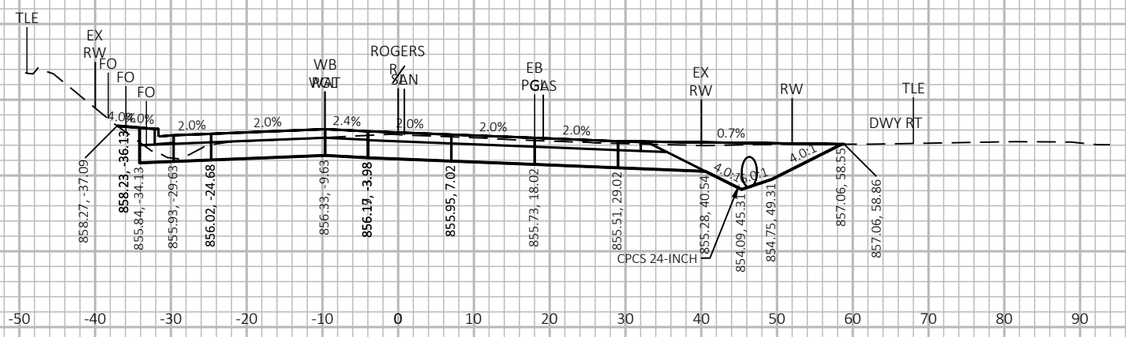
9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W ROGERS DR	SHEET 858	E

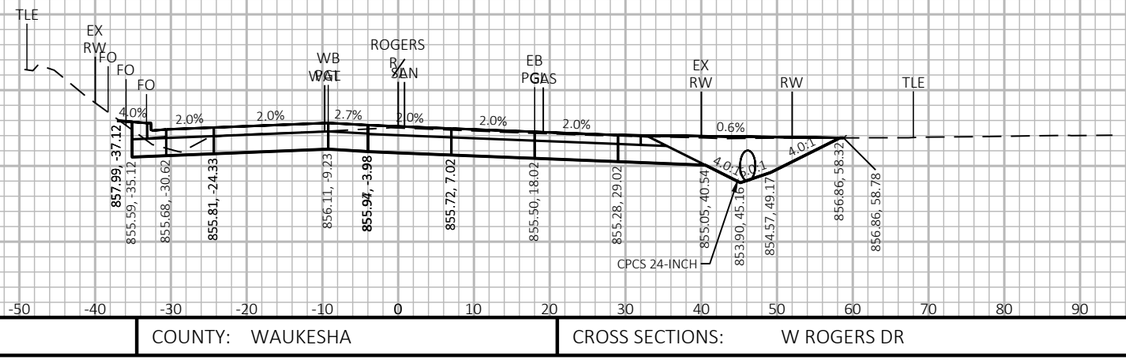
ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



447+00



446+50



446+42

10 FT

20 FT

9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W ROGERS DR	SHEET 859	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 99

PLOT DATE : 4/28/2026 9:37 AM

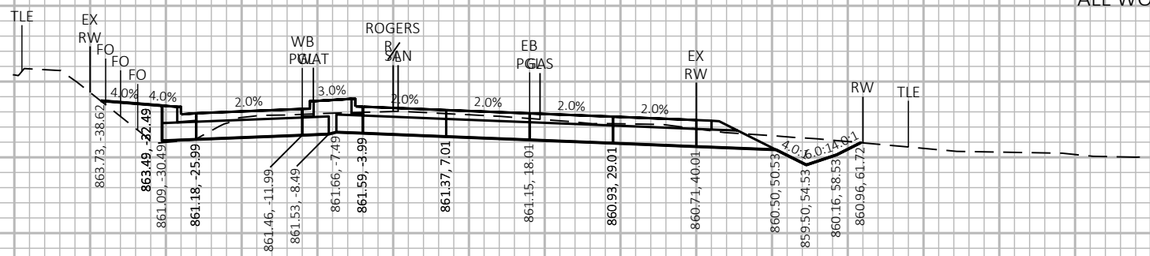
PLOT BY : GEHRING, ALEX

PLOT NAME :

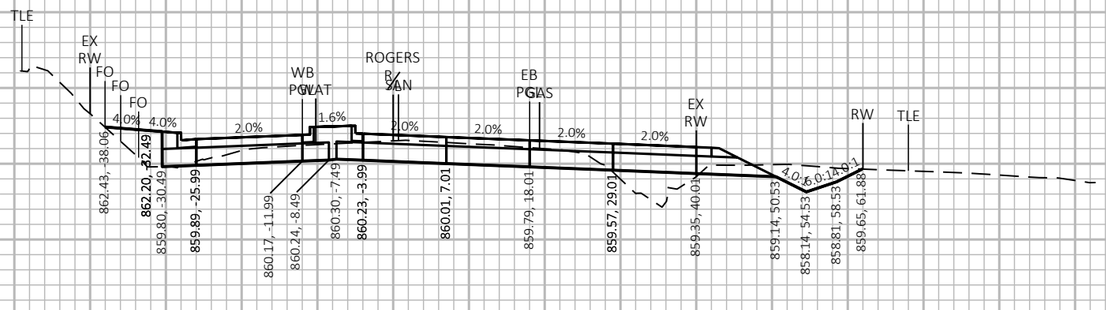
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

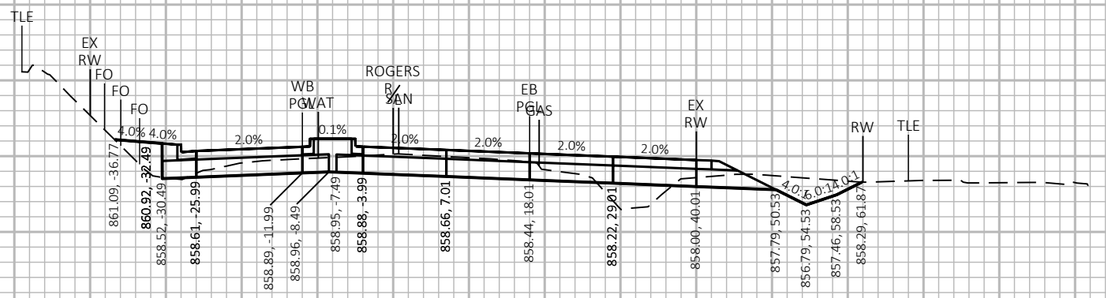
ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



448+50



448+00



447+50

10 FT

20 FT

9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W ROGERS DR	SHEET 860	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 100

PLOT DATE : 4/28/2026 9:37 AM

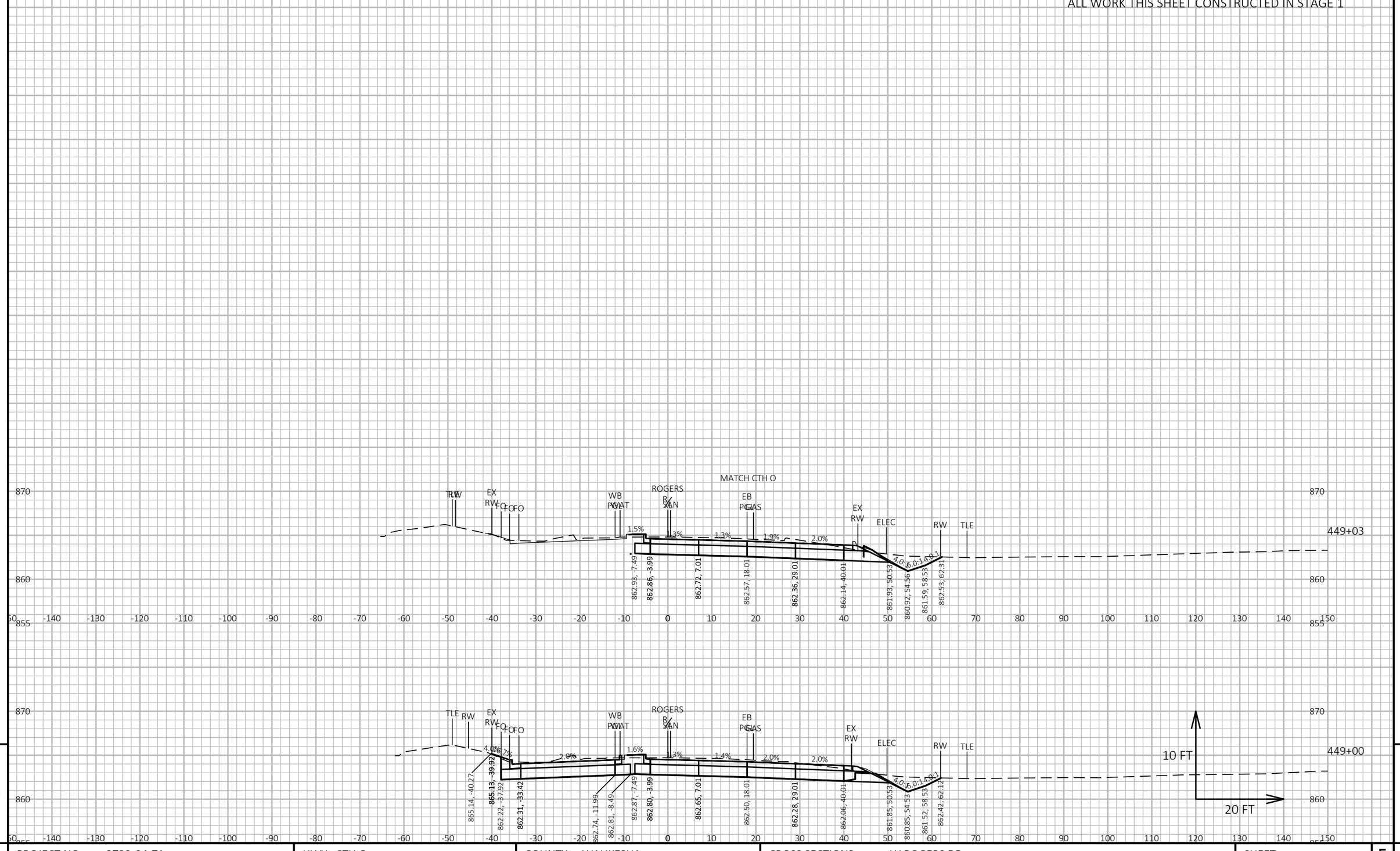
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



9

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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: W ROGERS DR	SHEET 861	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 101

PLOT DATE : 4/28/2026 9:37 AM

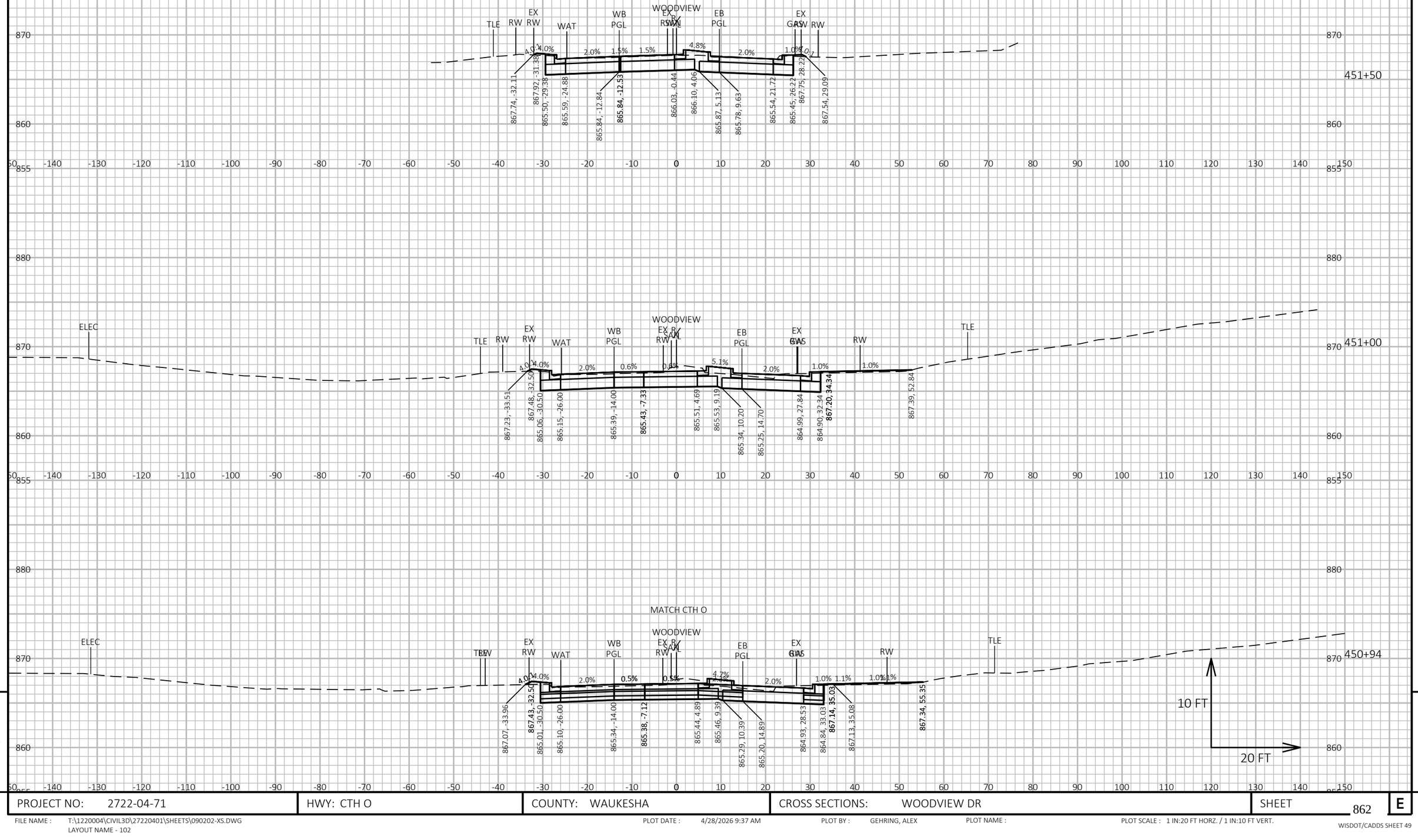
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2



PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: WOODVIEW DR	SHEET 862 E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 102

PLOT DATE : 4/28/2026 9:37 AM

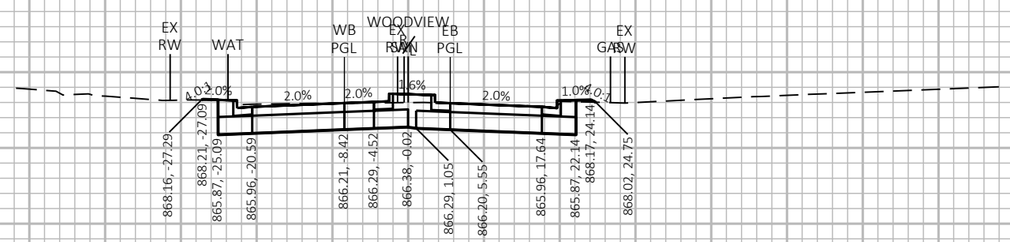
PLOT BY : GEHRING, ALEX

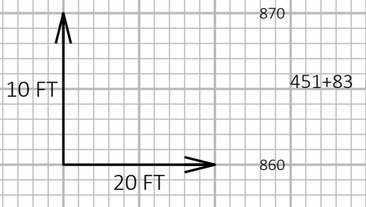
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 2





870
860
451+83
-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

9 9

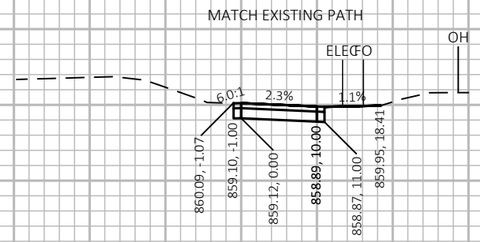
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: WOODVIEW DR	SHEET 863	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090202-XS.DWG
LAYOUT NAME - 103

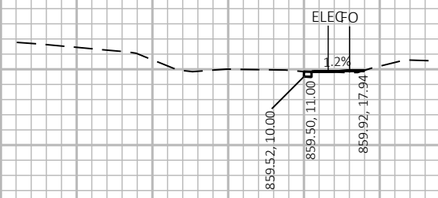
PLOT DATE : 4/28/2026 9:37 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

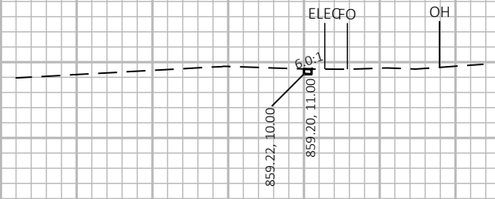
ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



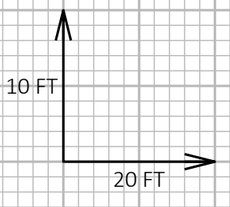
0+85



0+75



0+50



9

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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: NEW BERLIN TRAIL	SHEET 864	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 70

PLOT DATE : 4/28/2026 9:37 AM

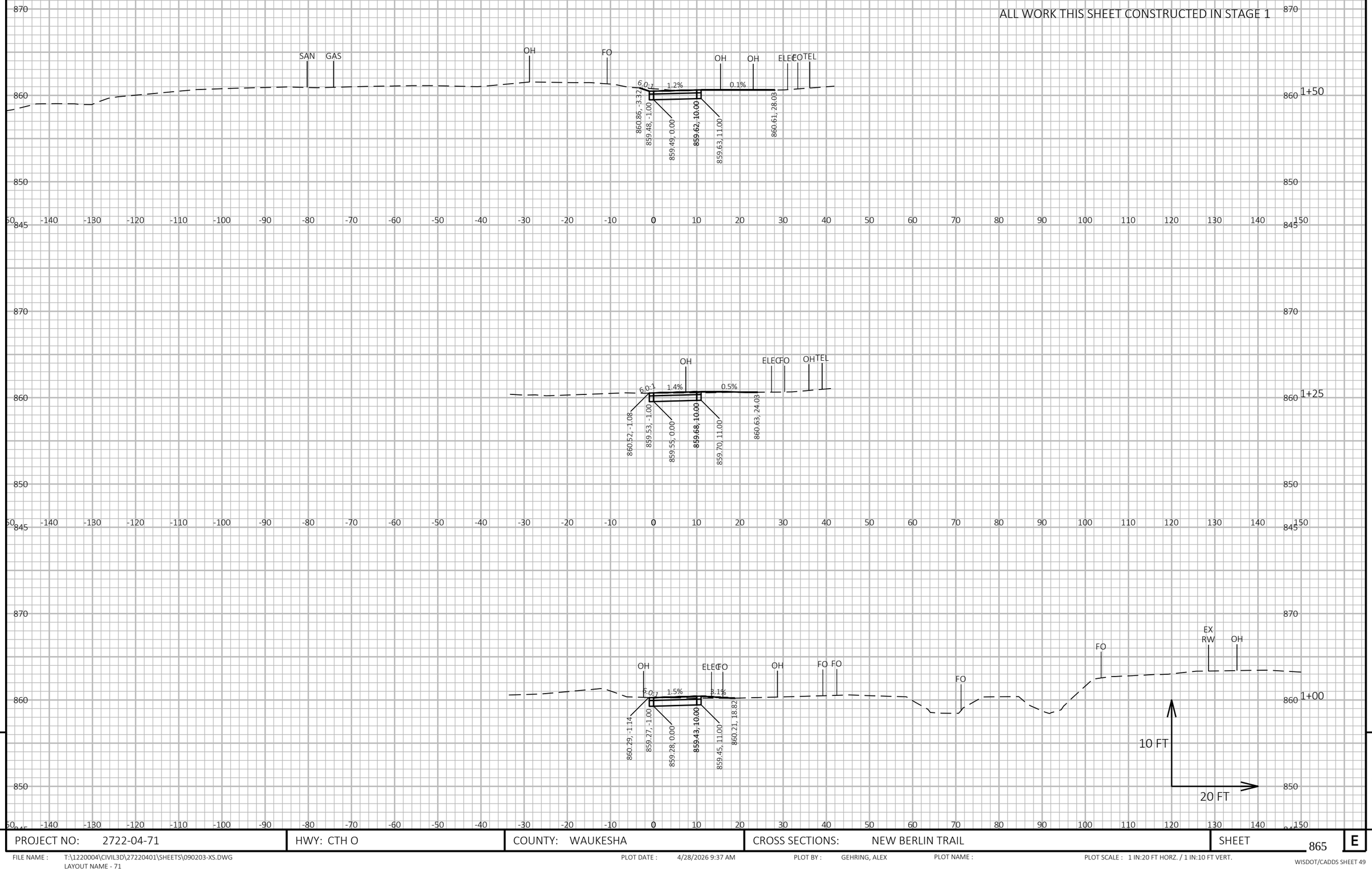
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



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PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: NEW BERLIN TRAIL	SHEET 865	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 71

PLOT DATE : 4/28/2026 9:37 AM

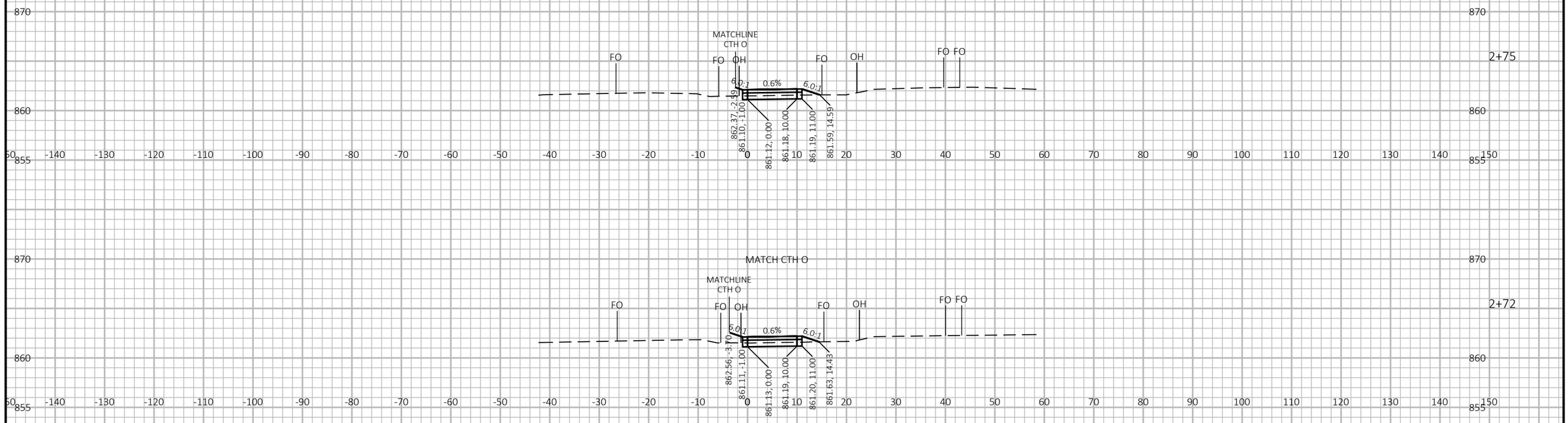
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: NEW BERLIN TRAIL	SHEET 866	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 72

PLOT DATE : 4/28/2026 9:37 AM

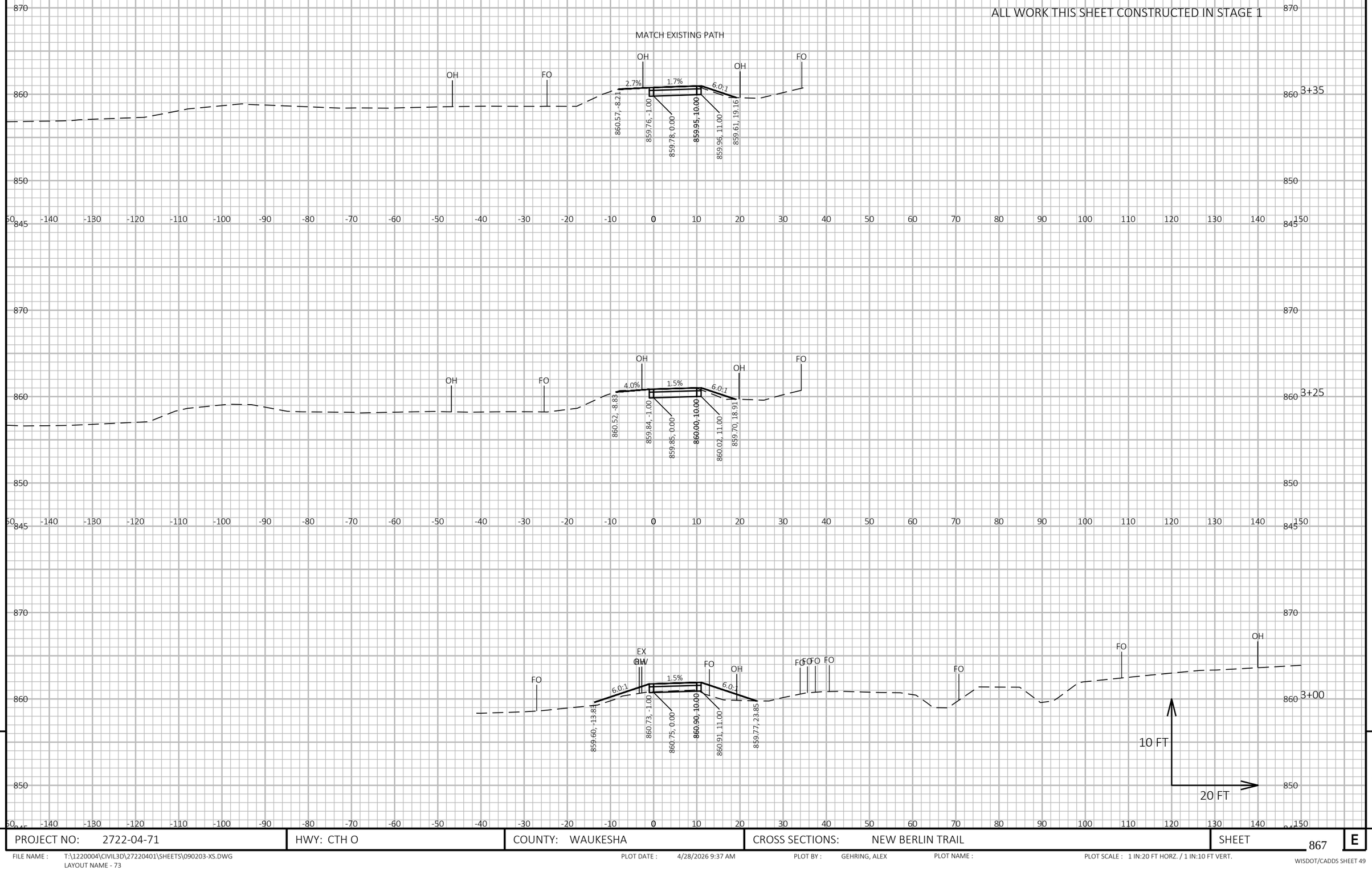
PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



9

9

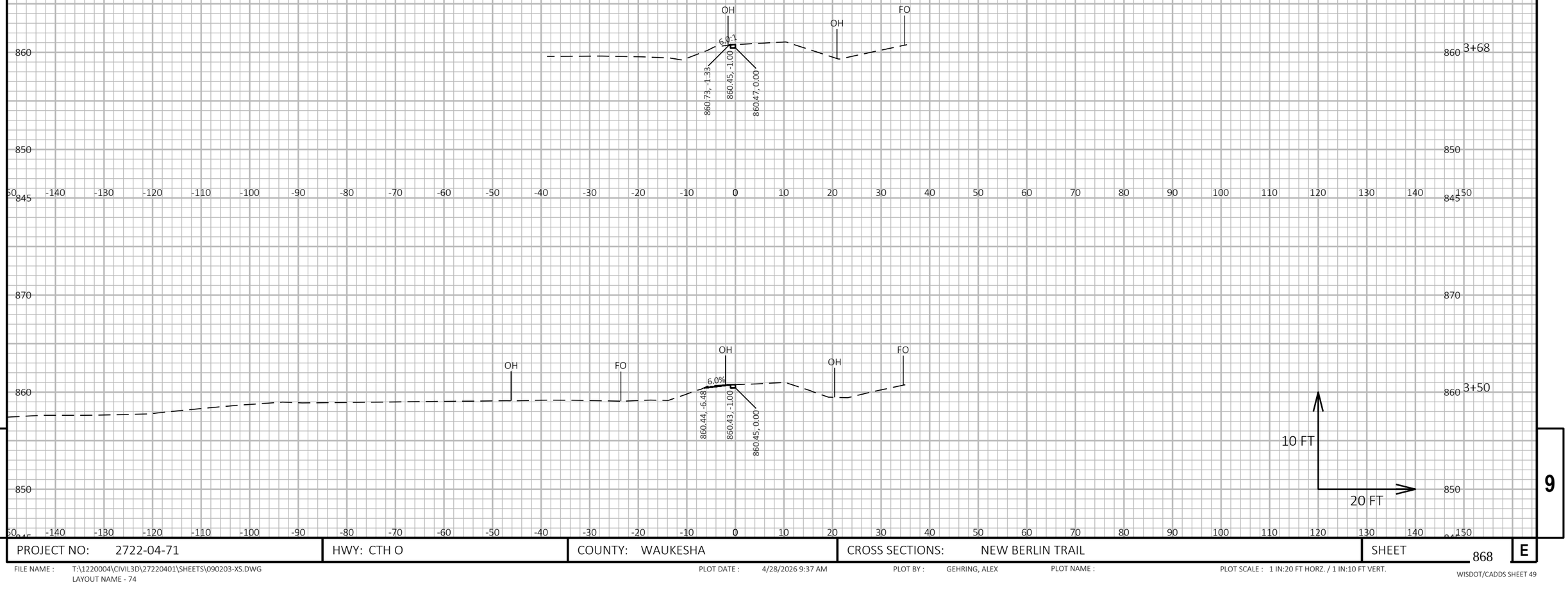
PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: NEW BERLIN TRAIL	SHEET 867	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 73

PLOT DATE : 4/28/2026 9:37 AM PLOT BY : GEHRING, ALEX PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

ALL WORK THIS SHEET CONSTRUCTED IN STAGE 1



9

9

PROJECT NO: 2722-04-71	HWY: CTH O	COUNTY: WAUKESHA	CROSS SECTIONS: NEW BERLIN TRAIL	SHEET 868	E

FILE NAME : T:\1220004\CIVIL3D\27220401\SHEETS\090203-XS.DWG
LAYOUT NAME - 74

PLOT DATE : 4/28/2026 9:37 AM

PLOT BY : GEHRING, ALEX

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov