PROJECT ID: 1100-20-70
WITH: PROJECTID4

COUNTY: MILWAUKEE

ORDER OF SHEETS

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

TOTAL SHEETS =



N

DESIGN DESIGNATION			IH 41	BURLEIGH	CAPITOL
A.A.D.T.	2019	=	149,000	16,050 (2020)	43,200 (2020)
A.A.D.T.	2040	=	169,300	17,550	47,300
D.H.V.		=	16,422	1,700	4,588
D.D.		=	59/41	50/50	50/50
T.		=	17.1%	3.2%	5%
DESIGN SPEED		=	60 MPH	40 MPH	50 MPH
ESALS		=	41,000,000	-	-

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

IH 41 ZOO FREEWAY

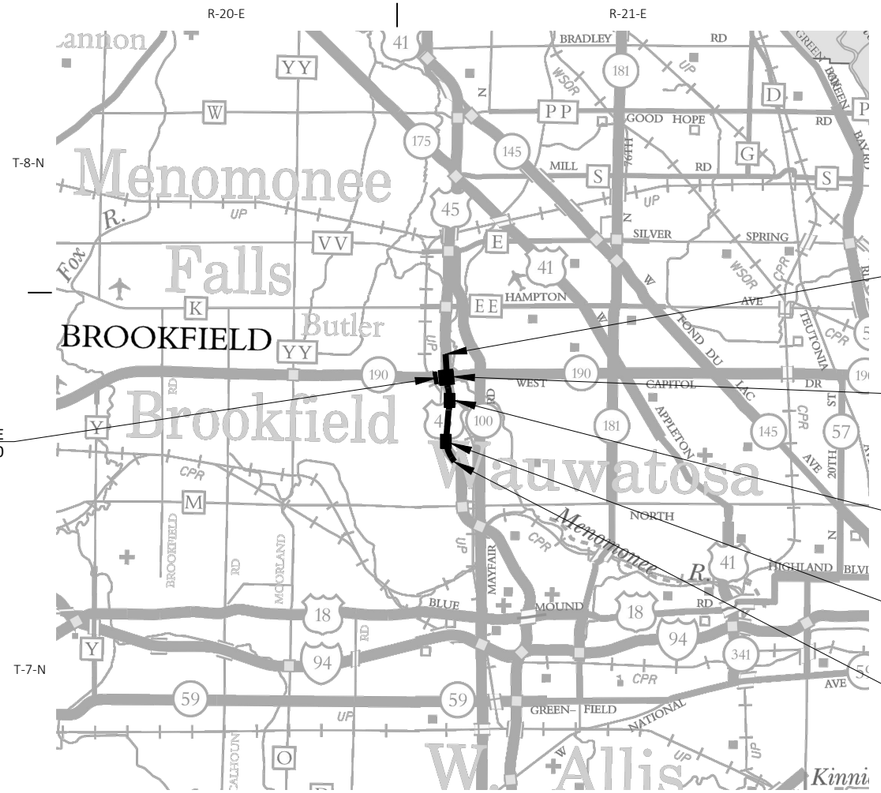
BURLEIGH ST TO CAPITOL DR

IH 41

MILWAUKEE COUNTY

STATE PROJECT NUMBER
1100-20-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1100-20-70		



STRUCTURE
B-40-330

END PROJECT 1100-20-70
STA 243+34.69
X= 566,269.64
Y= 318,939.41

STRUCTURE
B-40-331
B-40-332
B-40-333
B-40-334

STRUCTURE
B-40-358
B-40-359

STRUCTURE
B-40-356
B-40-357

BEGIN PROJECT 1100-20-70
STA 165+53.32
X= 566,856.73
Y= 311,394.33

LAYOUT
SCALE 0 2 MILES

TOTAL NET LENGTH OF CENTERLINE = 1.672 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD 83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (2012).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	JIM SCHUMACHER
Project Manager	GEORGIA VERGOU
Regional Examiner	
Regional Supervisor	JOE GALLAMORE

APPROVED FOR THE DEPARTMENT

DATE: _____ _____ (Signature)

PRE_1

E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_010101-TI.DWG PLOT DATE : 9/21/2021 3:19 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME :

UTILITY CONTACTS

ATC MANAGEMENT INC
TRANS 220 MAILBOX
801 O'KEEFE RD
DE PERE, WI 54115
PHONE: (920) 338-6582
dl-ATCDOTNotifications@atcllc.com

AT&T LOCAL NETWORK – COMMUNICATION LINE
MR. DALE DEFEVER
39869 LINN ST
CANTON, MI 48147
PHONE: (586) 242-2671
dd2579@att.com

AT&T WISCONSIN- COMMUNICATION LINE
MR. JAY BULANEK
2005 PEWAUKEE RD
WAUKESHA, WISCONSIN 53188
PHONE: (262) 896-7669
CELL: (414) 491-2855
jb5175@att.com

CHARTER/SPECTRUM– COMMUNICATION LINE
MR. BEAU ABUYA
1320 N MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
PHONE: (414) 758-9241
beau.abuya@charter.com

MIDWEST FIBER NETWORKS LLC – COMMUNICATION LINE
MR. RICHARD TRGOVEC
6070 N FLINT RD
GLENDALE, WI 53209
PHONE: (414) 459-3554
rtrgovec@midwestfibernetworks.com

NETWORK RELOCATIONS LEVEL 3 COMMUNICATIONS LLC – COMMUNICATION LINE
MR. JASON BUSSE
3235 INTERTECH DR SUITE 600
BROOKFIELD, WI 53045
PHONE: (715) 415-3214
jason.busse@centurylink.com

STANDARD ABBREVIATIONS

ABUT.	ABUTMENT
A.D.T.	AVERAGE DAILY TRAFFIC
B.F.	BACK FACE
B.M.	BENCH MARK
B.O.C.	BACK OF CURB
CTR.	CENTER
C.L.	CENTERLINE
D.	LANE DISTRIBUTION
D.H.V.	DESIGN HOURLY VOLUME
DIA.	DIAMETER
DIM.	DIMENSION
EL. OR ELEV.	ELEVATION
EXC.	EXCAVATION
F.F.	FRONT FACE
MAX.	MAXIMUM
MIN.	MINIMUM
NORM.	NORMAL
O.H.	OVERHEAD POWER LINE
P.O.L.	POINT ON LINE
REQ'D	REQUIRED
RDWY.	ROADWAY
R.H.F.	RIGHT HAND FORWARD
S.E.	SUPERELEVATIO0N
SPA.	SPACE
STA.	STATION
SYM.	SYMMETRICAL
T.	PERCENT TRUCKS
TYP.	TYPICAL
V.	DESIGN SPEED

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
4 SMA 58-28V	2"	2" SINGLE LAYER
4 SMA 58-28V	3"	3" SINGLE LAYER
4 SMA 58-28V OVER 3 HT 58-28H	4"	1 3/4" UPPER LAYER 2 1/4" LOWER LAYER
4 SMA 58-28V OVER 3 HT 58-28H	4 1/2"	1 3/4" UPPER LAYER 2 3/4" LOWER LAYER
4 SMA 58-28V OVER 3 HT 58-28H	4 3/4"	1 3/4" UPPER LAYER 3" LOWER LAYER
4 SMA 58-28V OVER 3 HT 58-28H	5"	2" UPPER LAYER 3" LOWER LAYER
4 SMA 58-28V OVER 3 HT 58-28H	5 1/4"	2 1/4" UPPER LAYER 3" LOWER LAYER
4 SMA 58-28V OVER 3 HT 58-28H	13"	1 3/4" UPPER LAYER 3 1/4" UPPER-LOWER LAYER 4" MIDDLE-LOWER LAYER 4" LOWER-LOWER LAYER

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLANS
PLAN DETAILS
EROSION CONTROL
STORM SEWER PLAN
LIGHTING PLAN
PAVEMENT MARKINGS
STAGE CONSTRUCTION
ALIGNMENT LAYOUT

GENERAL NOTES

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. CONTACT SEPARATELY ANY MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE. CONTACT RAILROAD COMPANY SEPARATELY.

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE APPROXIMATE LOCATION OF SECTION CORNERS AND WITNESS CORNERS AFFECTED BY THE PROJECT IS SHOWN IN THE PLAN SHEETS. CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND SEWRPC (ROB MERRY); AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED AND MULCH. TOPSOIL, SEEDING AND FERTILIZER ARE INCIDENTAL TO THE BARRIER SYSTEM GRADING SHAPING FINISHING ITEM.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

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

UTILITY CONTACTS

SPRINT COMMUNICATIONS CO L.P. – COMMUNICATION LINE
MR. DAN HILLIARD
849 EARL ST
ST PAUL, MN 56106
PHONE: (612) 217-3526
dan,j,hilliard@t-mobile.com

VERIZON BUSINESS – COMMUNICATION LINE
MR. RJ CICATELLO JR.
15725 W RYERSON RD
NEW BERLIN, WI 53151
PHONE: (262) 782-9836
randy.cicatello@Verizon.com

WAUWATOSA WATER UTILITY
MR. ADAM FLORIN
11100 W WALNUT RD
WAUWATOSA, WI 53226
PHONE: (414) 479-8963
aflorin@Wauwatosa.net

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

WE ENERGIES – GAS/PETROLEUM
MR. ALEX DANTINNE
500 S 116TH ST
WEST ALLIS, WI 53214
PHONE: (920) 621-6903
alex.dantinne@we-energies.com

WISCONSIN INDEPENDENT NEWORK LLC – COMMUNICATION LINE
MR. DICK HAMMETTER
800 WISCONSIN AVE, STE 219
EAU CLAIRE, WI 54703
PHONE: (715) 838-4406
hammetter@wins.net

STATE AGENCIES

WISCONSIN DEPARTMENT OF TRANSPORTATION – COMMUNICATION LINE
MR. JEFF MADSON
433 W ST PAUL AVE STE 300
MILWAUKEE, WI 53203-3007
CELL: (414) 225-3723
Jeffrey.Madson@ dot.wi.gov

WISDOT ATR PULL BOXES - ELECTRICITY
MR. CHAD BIGLER
TRAVEL SURVEY SHOP
3633 PIERSTORFF ST P.O. BOX 2583
MADISON, WI 53704-2583
PHONE: (608) 535-7413
Chad.Bigler@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION – STREET LIGHTING
MR. ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 574-5422
Eric.Perea@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
MS. GEORGIA VERGOU- PROJECT MANAGER
141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
PHONE: (414) 548-8812
georgia.vergou@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION – WISCONSIN SIGNAL
MR. DERRIN WOLFORD
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 521-4409
Derrin.Wolford@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
MS. KRISTINA BETZOLD
1027 W ST. PAUL AVE
MILWAUKEE, WI 53233
PHONE: (414) 343-9346
kristina.betzold@wi.gov

OTHER AGENCIES

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

CITY OF MILWAUKEE - SEWER
MR. SAMIR AMIN
841 N BROADWAY
MILWAUKEE, WI 53202
PHONE: (414) 286-3301
samin@milwaukee.gov

CITY OF MILWAUKEE - STREET LIGHTING
NEAL KARWEIK
1540 W CANAL ST
WAUWATOSA, WI 53202
PHONE: (414) 286-5943
CELL: (414) 708-4245
nkarwe@milwauke.gov

CITY OF MILWAUKEE - WATER
MR. DAVE GOLDAPP
841 N BROADWAY, ROOM 409
MILWAUKEE, WI 53202
PHONE: (414) 286-6301
dave.m.goldapp@milwaukee.gov

CITY OF WAUWATOSA – ROAD FACILITY
MR. WILLIAM WEHRLEY
7725 W. NORTH AVENUE
WAUWATOSA, WI 53213
PHONE: (414) 479-8929
wwehrley@wauwatosa.net

CITY OF WAUWATOSA - SEWER
MR. WILLIAM WEHRLEY
7725 W. NORTH AVENUE
WAUWATOSA, WI 53213
PHONE: (414) 479-8929
wwehrley@wauwatosa.net

CITY OF WAUWATOSA – STREET LIGHTING
MR. RANDY MICHELZ
11100 W WALNUT RD
WAUWATOSA, WI 53226
PHONE: (414) 471-8429
rmichelz@wauwatosa.net

OTHER AGENCIES

MILWAUKEE COUNTY DOT – COMMUNICATION LINE
MR. DANIEL MURPHY
10320 WATERTOWN PLANK ROAD
WAUWATOSA, WI 53226
PHONE: (414) 257-5942
Daniel.Murphy@milwaukeecounty.wi.gov

DIRECTOR OF TRANSPORTATION ENGINEERING COUNTY DOT TRANSPORTATION SERVICES DIVISION
MS. ANDREA WEDDLE-HENNING
10320 W. WATERTOWN PLANK RD., 2ND FLOOR
WAUWATOSA, WI 53226
PHONE(414) 257-5934
andrea.weddle-henning@milwaukeecounty.wi.gov

MILWAUKEE COUNTY DEPARTMENT OF TRANSPORTATION HIGHWAY
MR. KEVIN KENT (SUPERINTENDENT)
10320 WATERTOWN PLANK ROAD
WAUWATOSA, WI 53226
PHONE: (414) 257-6580
kevin.kent@milwaukeecounty.wi.gov

MILWAUKEE COUNTY TRANSIT SYSTEM (MCTS)
1942 NORTH 17TH STREET
MILWAUKEE, WI 53205

TRANSPORTATION COORDINATOR (DETOURS)
MR. ARMOND SENSABAUGH
PHONE: (414) 343-1728
asensabaugh@mcts.org

TRANSPORTATION MANAGER (BUS STOPS)
MR. DAVID LOCHER
PHONE: (414) 343-1727
dlocher@mcts.org

OTHER AGENCIES

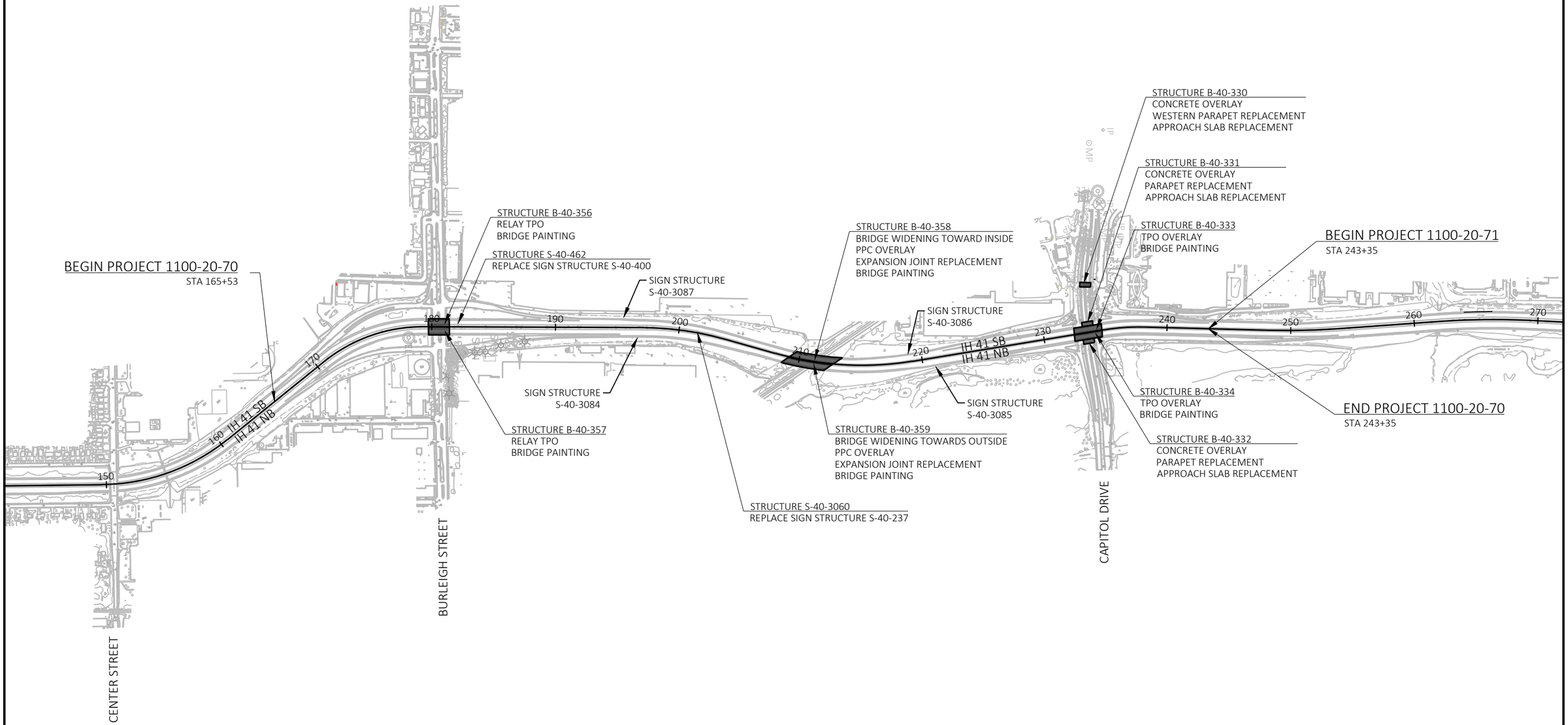
MILWAUKEE METROPOLITAN SEWERAGE DISTRICT - SEWER
MS. MICKI KLAPPA-SULLIVAN
260 SEEBOTH ST
MILWAUKEE, WI 53204
PHONE: (414) 225-2178
mklappasullivan@mmsd.com

SEWRPC
MR. ROB MERRY (CHIEF SURVEYOR)
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE (262) 953-4289
CELL (920) 912-1036
FAX (262) 912-1036

2

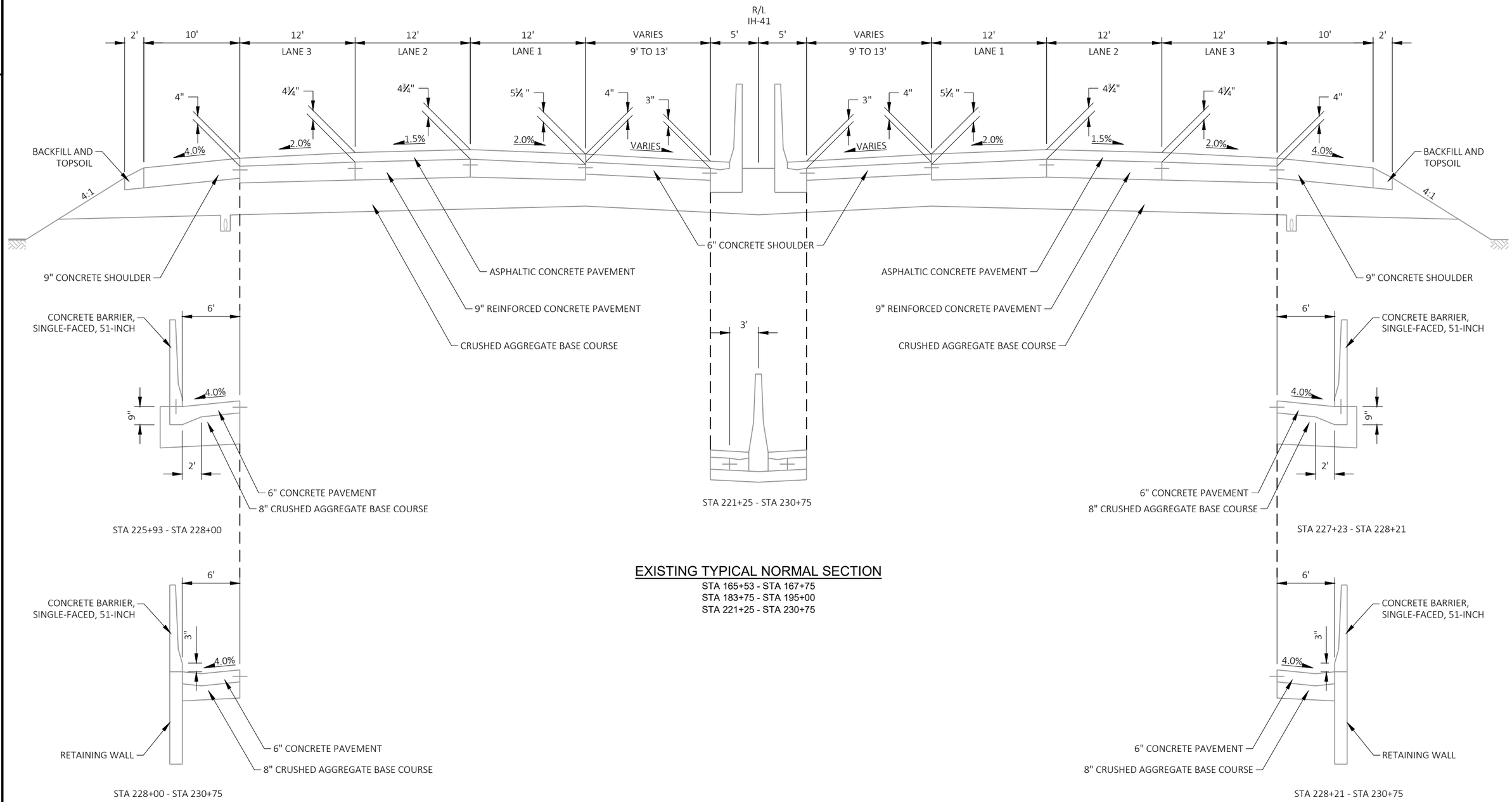
PRIMARY ROADWAY SCOPE:
- ADD NB & SB AUXILIARY LANES FROM BURLEIGH STREET TO CAPITOL DRIVE
- RESURFACE IH 41 NB & SB MAINLINE
- REHABILITATION FOR SOME OF THE RAMPS ALONG THE CORRIDOR

PRIMARY BRIDGE SCOPE:
- BRIDGE OVERLAYS AND PAINTING
- SIGN STRUCTURE REPLACEMENT
- ADDITIONAL SIGN STRUCTURES FOR PROPOSED AUXILIARY LANES



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET PRE_4 E

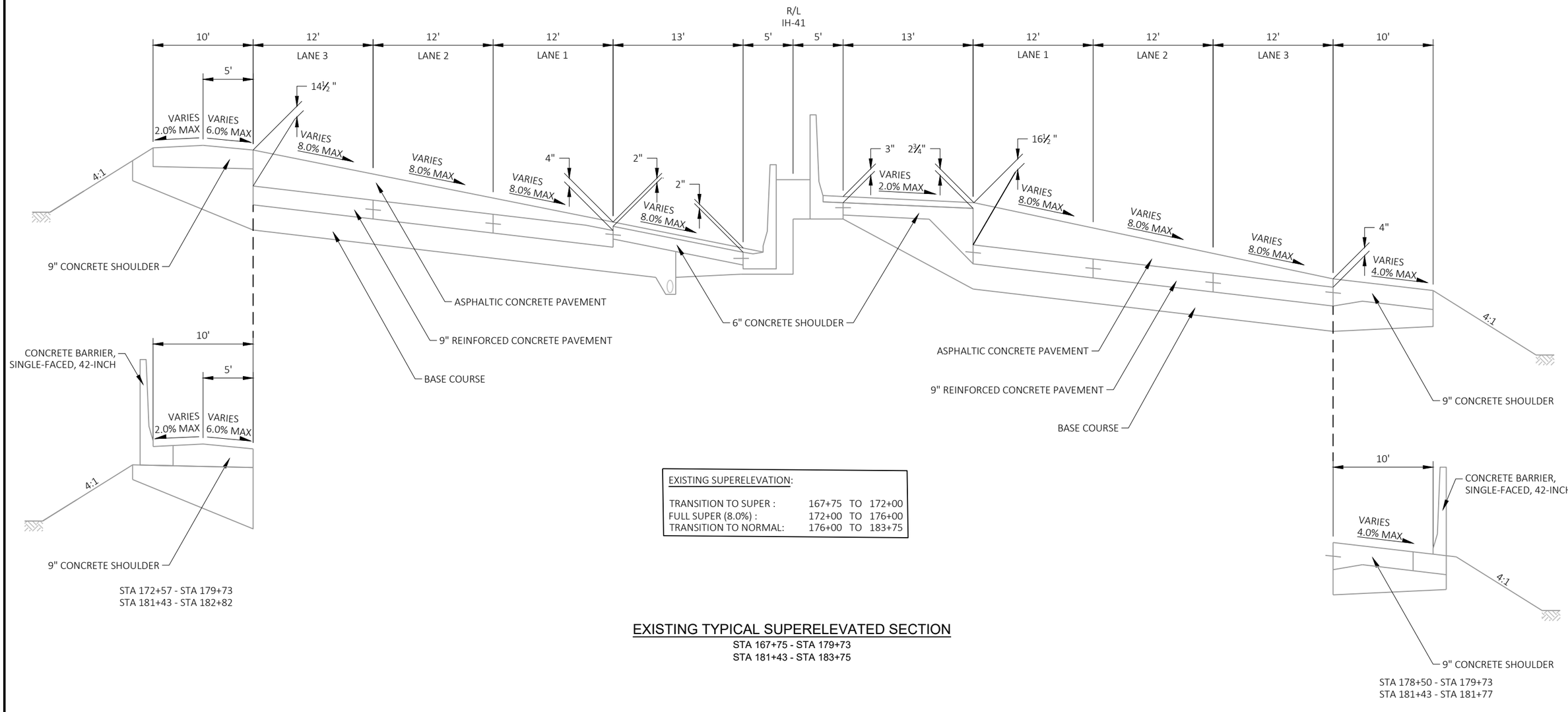
FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020201-PO.DWG
LAYOUT NAME - 020201_po
PLOT DATE : 9/21/2021 4:35 PM
PLOT BY : SCHUMACHER, JAMES D
PLOT NAME :
PLOT SCALE : 1 IN: 800 FT
WISDOT/CADDS SHEET 42



EXISTING TYPICAL NORMAL SECTION

STA 165+53 - STA 167+75
STA 183+75 - STA 195+00
STA 221+25 - STA 230+75

2



STA 172+57 - STA 179+73
STA 181+43 - STA 182+82

STA 178+50 - STA 179+73
STA 181+43 - STA 181+77

EXISTING SUPERELEVATION:

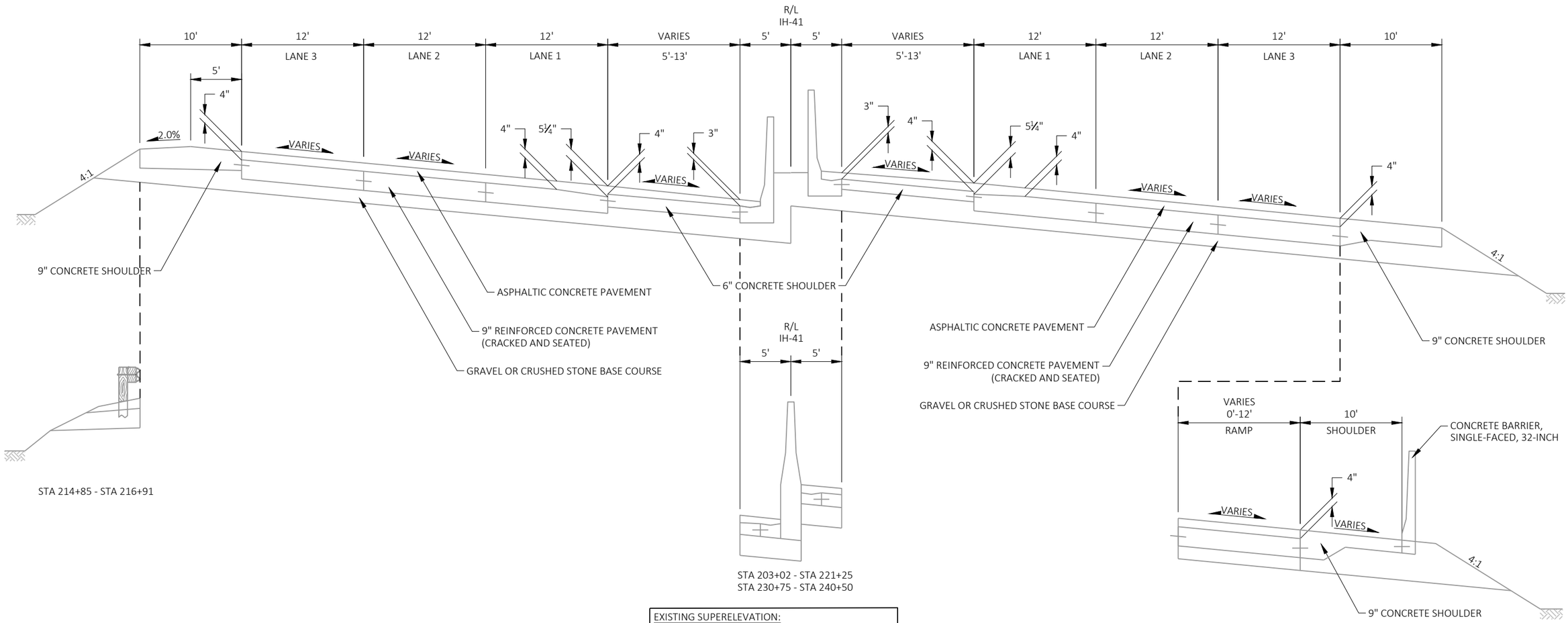
TRANSITION TO SUPER :	167+75	TO	172+00
FULL SUPER (8.0%) :	172+00	TO	176+00
TRANSITION TO NORMAL:	176+00	TO	183+75

EXISTING TYPICAL SUPERELEVATED SECTION

STA 167+75 - STA 179+73
STA 181+43 - STA 183+75

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET PRE_6 E

2



STA 214+85 - STA 216+91

STA 203+02 - STA 221+25
STA 230+75 - STA 240+50

STA 195+21 - STA 209+15

EXISTING SUPERELEVATION:			
TRANSITION TO SUPER :	195+00	TO	198+00
FULL SUPER (3.5%) :	198+00	TO	203+00
TRANSITION TO NORMAL:	203+00	TO	206+00
TRANSITION TO SUPER :	206+00	TO	208+75
FULL SUPER (3.5%) :	208+75	TO	218+25
TRANSITION TO NORMAL:	218+25	TO	221+25
TRANSITION TO SUPER:	230+75	TO	236+00
FULL SUPER (4.7%) :	236+00	TO	237+00
TRANSITION TO NORMAL:	237+00	TO	240+50

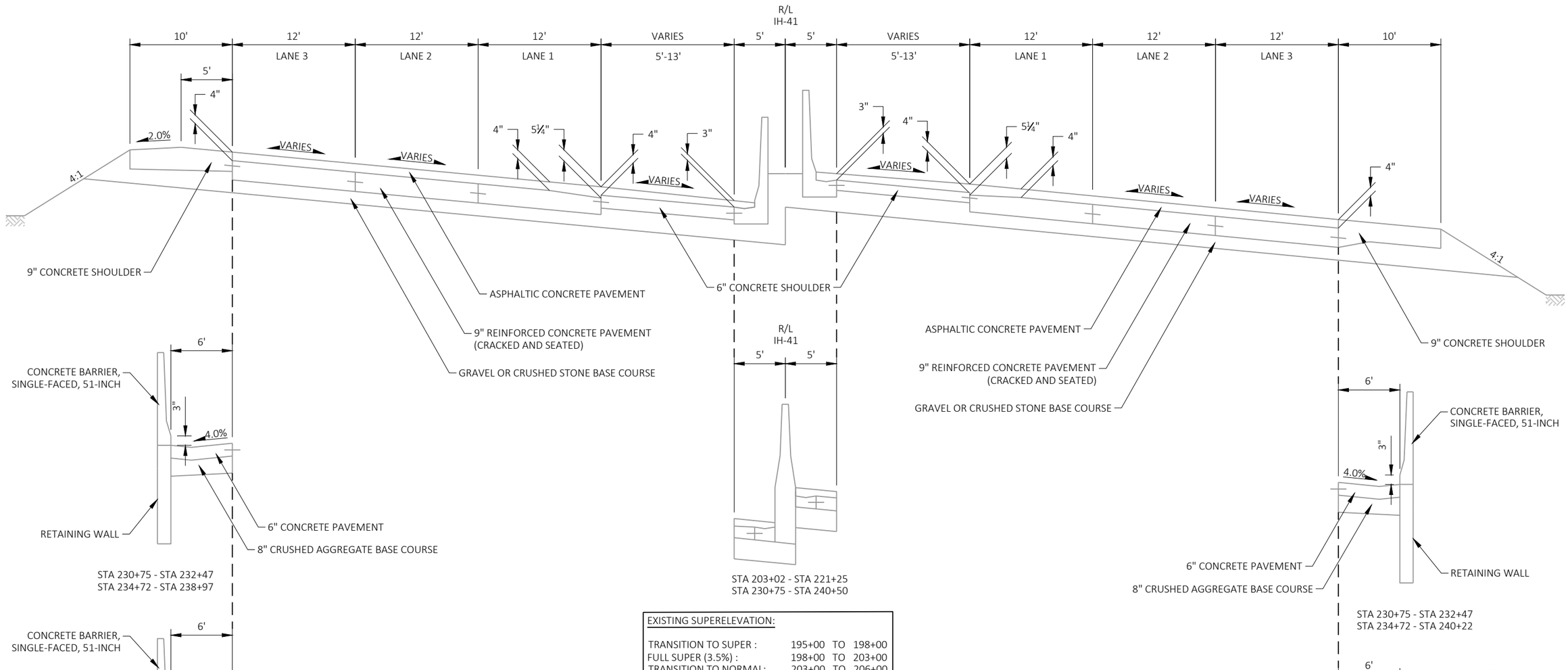
EXISTING TYPICAL SUPERELEVATED SECTION

STA 195+00 - STA 209+15
STA 212+73 - STA 221+25
STA 230+75 - STA 232+47
STA 234+72 - STA 240+50

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020301-TS_EXISTING.DWG
LAYOUT NAME - 020303-ts
PLOT DATE : 9/22/2021 11:06 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT

PRE_7

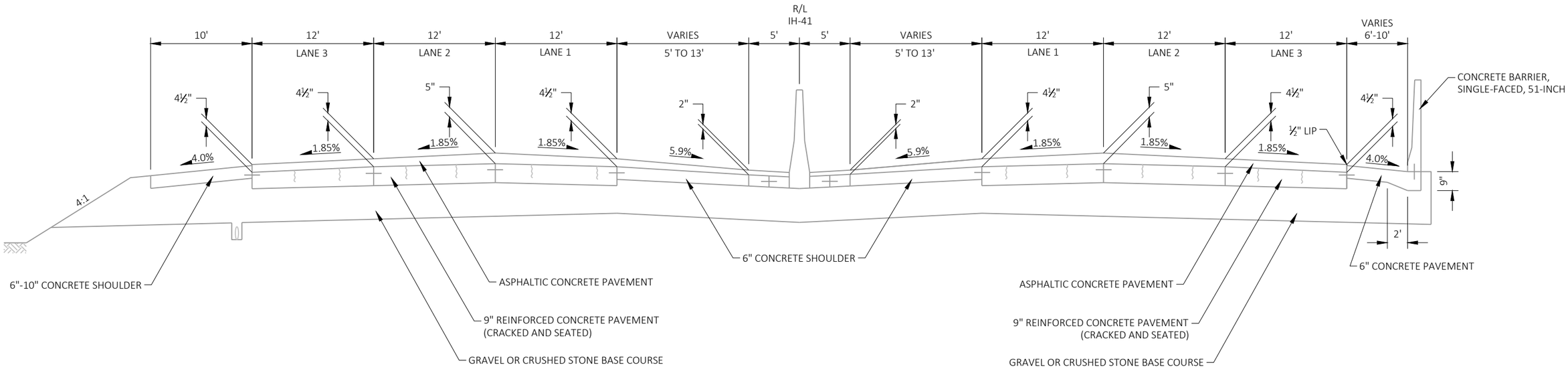


EXISTING SUPERELEVATION:			
TRANSITION TO SUPER :	195+00	TO	198+00
FULL SUPER (3.5%) :	198+00	TO	203+00
TRANSITION TO NORMAL:	203+00	TO	206+00
TRANSITION TO SUPER :	206+00	TO	208+75
FULL SUPER (3.5%) :	208+75	TO	218+25
TRANSITION TO NORMAL:	218+25	TO	221+25
TRANSITION TO SUPER:	230+75	TO	236+00
FULL SUPER (4.7%) :	236+00	TO	237+00
TRANSITION TO NORMAL:	237+00	TO	240+50

EXISTING TYPICAL SUPERELEVATED SECTION (CONT'D)

STA 195+00 - STA 209+15
STA 212+73 - STA 221+25
STA 230+75 - STA 232+47
STA 234+72 - STA 240+50

2



EXISTING TYPICAL NORMAL SECTION

STA 240+50 - STA 243+35

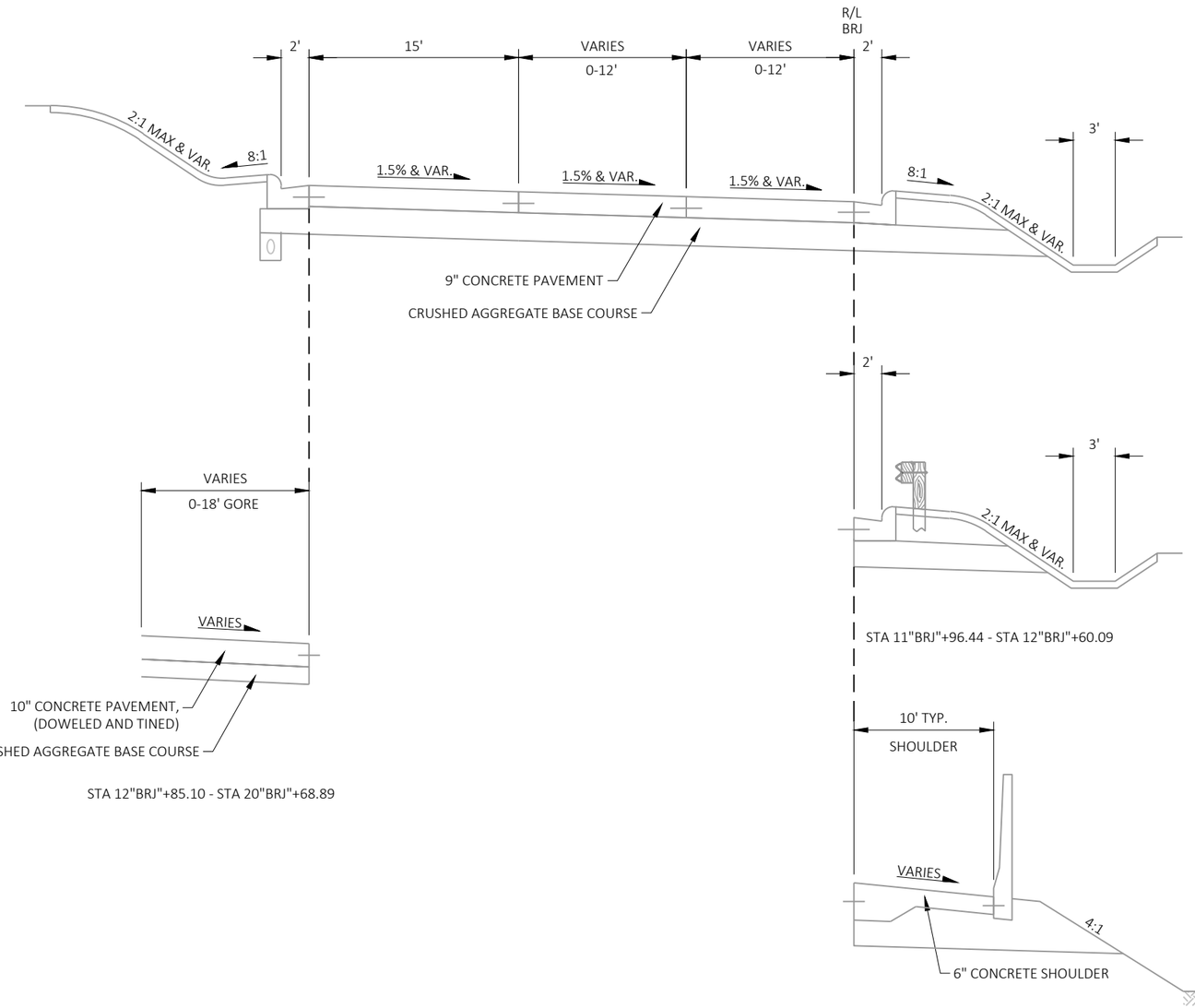
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET E

PRE_9

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020301-TS_EXISTING.DWG
LAYOUT NAME - 020305-ts

PLOT DATE : 9/22/2021 11:06 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



EXISTING TYPICAL SECTION

BURLEIGH ST NB ENTRANCE RAMP

STA 5"BRJ"+00 - STA 20"BRJ"+68.89

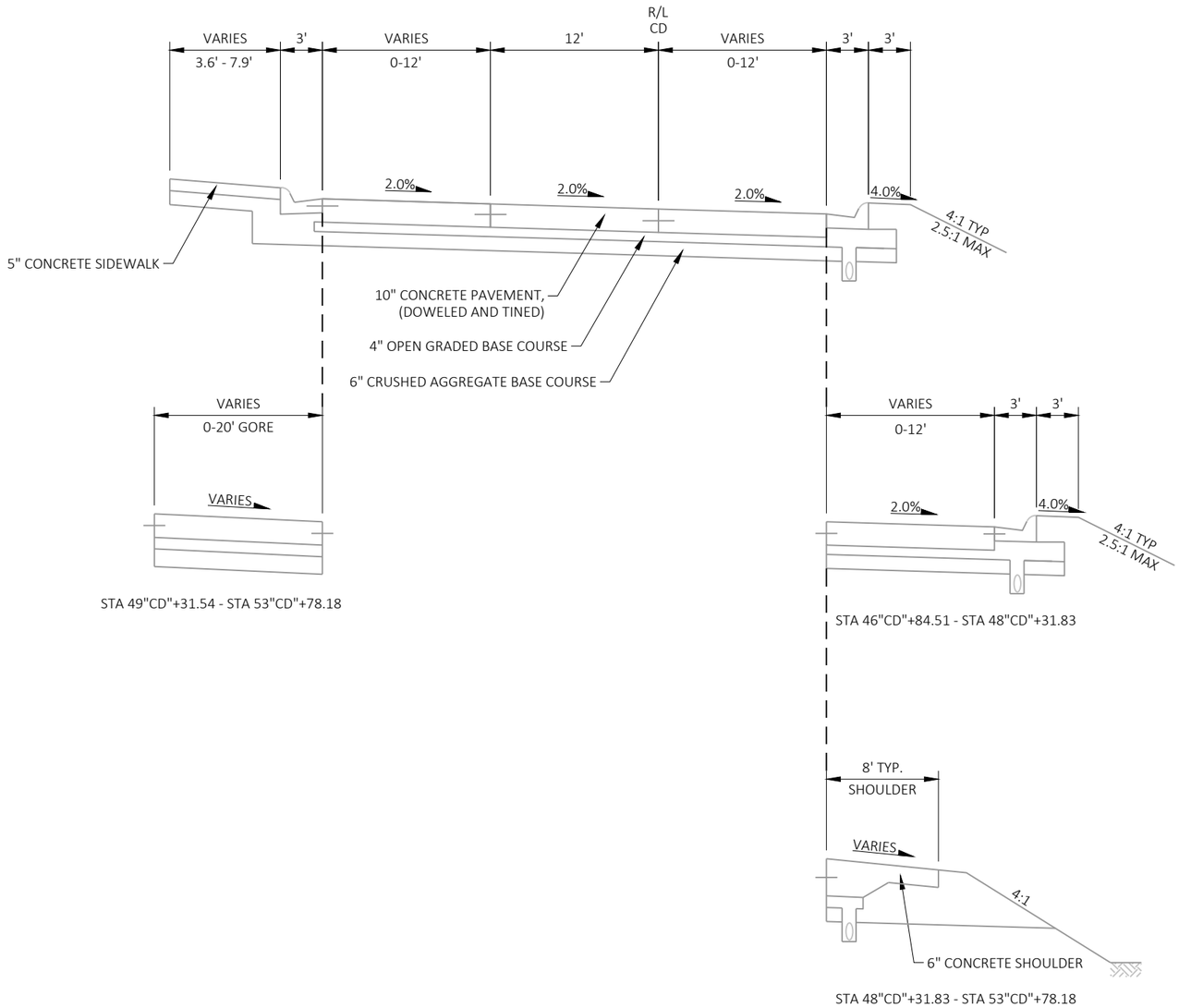
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET E

PRE_10

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020301-TS_EXISTING.DWG
LAYOUT NAME - 020306-ts

PLOT DATE : 9/22/2021 11:06 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



EXISTING TYPICAL SECTION

CAPITOL DR NB ENTRANCE RAMP
STA 34"CD"+44.88 - STA 53"CD"+78.18

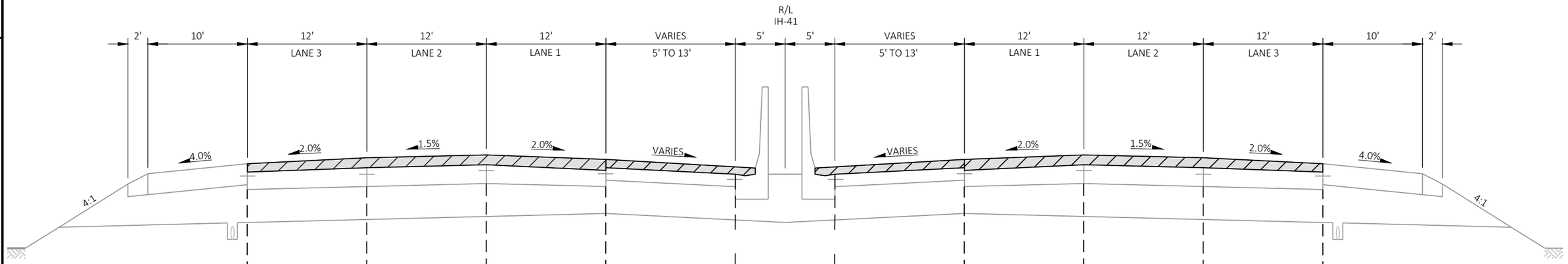
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET E

PRE_11

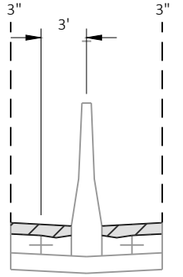
FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020301-TS_EXISTING.DWG
LAYOUT NAME - 020307-ts

PLOT DATE : 9/22/2021 11:06 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT

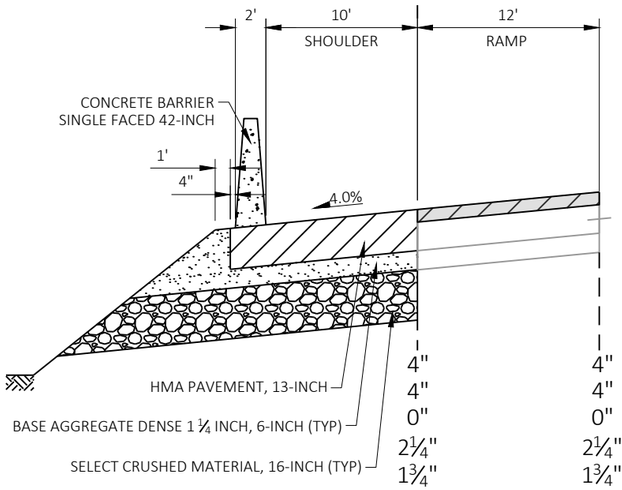
2



EXISTING ASPHALTIC PAVT DEPTH	4"	4¾"	4¾"	5¼"	3"	3"	5¼"	4¾"	4¾"	4"
REMOVE ASPHALTIC PAVT MILLING	4"	4¾"	4¾"	5¼"	3"	3"	5¼"	4¾"	4¾"	4"
REMOVE CONC PAVT PARTIAL DEPTH	0"	0"	0"	0"	0"	0"	0"	0"	0"	0"
HMA, TYPE 3HT 58-28H (LOWER LAYER)	2¼"	3"	3"	3"	0"	0"	3"	3"	3"	2¼"
HMA, TYPE 4SMA 58-28H (UPPER LAYER)	1¾"	1¾"	1¾"	2¼"	3"	3"	2¼"	1¾"	1¾"	1¾"



STA 223+29 - STA 230+75



EXISTING ASPHALTIC PAVT DEPTH	4"	4"
REMOVE ASPHALTIC PAVT MILLING	4"	4"
REMOVE CONC PAVT PARTIAL DEPTH	0"	0"
HMA, TYPE 3HT 58-28H (LOWER LAYER)	2¼"	2¼"
HMA, TYPE 4SMA 58-28H (UPPER LAYER)	1¾"	1¾"

STA 191+50 - STA 194+15

EXISTING HMA PAVEMENT
PROPOSED HMA PAVEMENT

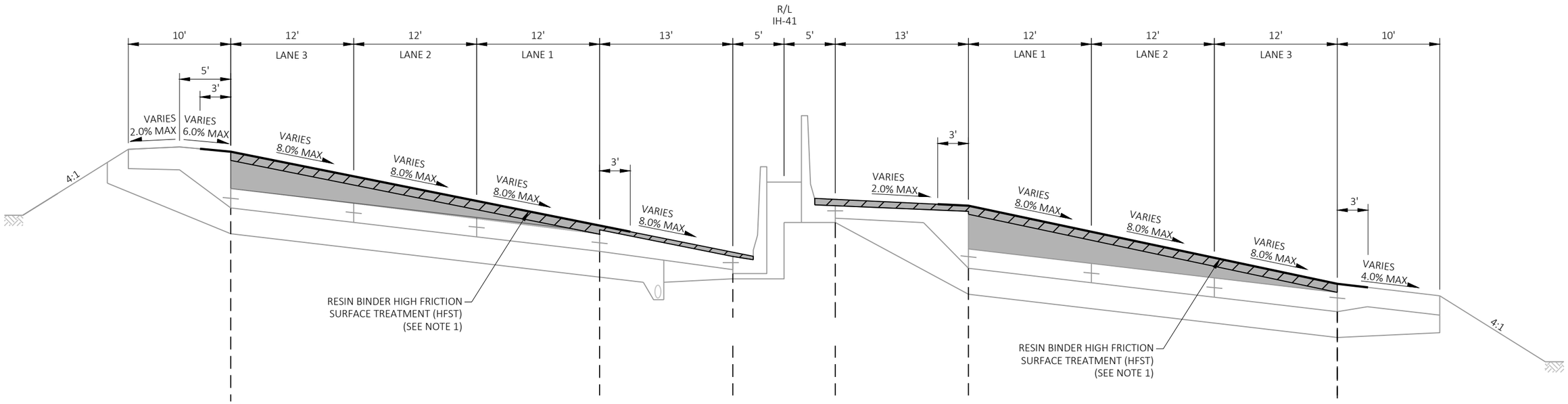
PROPOSED TYPICAL NORMAL SECTION

STA 165+53 - STA 167+75
STA 183+75 - STA 194+15
STA 223+29 - STA 230+75

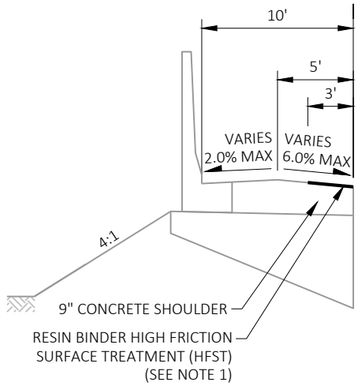
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020302-TS_PROPOSED.DWG
LAYOUT NAME - 020301-ts
PLOT DATE : 9/22/2021 11:07 AM
PLOT BY : SCHUMACHER, JAMES D
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



EXISTING ASPHALTIC PAVT DEPTH	14½"	4"	2"	3"	16½"	4"
REMOVE ASPHALTIC PAVT MILLING	4"	4"	2"	3"	4"	4"
REMOVE CONC PAVT PARTIAL DEPTH	0"	0"	0"	0"	0"	0"
HMA, TYPE 3HT 58-28H (LOWER LAYER)	2¼"	2¼"	0"	0"	2¼"	2¼"
HMA, TYPE 4SMA 58-28H (UPPER LAYER)	1¾"	1¾"	2"	3"	1¾"	1¾"



STA 172+57 - STA 179+73
STA 181+43 - STA 182+82

PROPOSED TYPICAL SUPERELEVATED SECTION

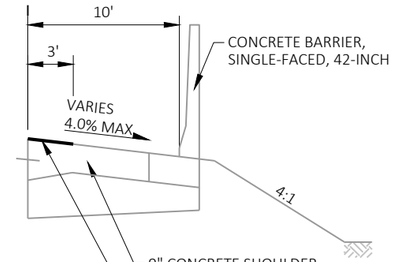
STA 167+75 - STA 179+73
STA 181+43 - STA 183+75

EXISTING SUPERELEVATION:

TRANSITION TO SUPER :	167+75	TO	172+00
FULL SUPER (8.0%) :	172+00	TO	176+00
TRANSITION TO NORMAL:	176+00	TO	183+75

NOTES
1. FOR THE HFST LIMITS SEE THE PLAN DETAILS

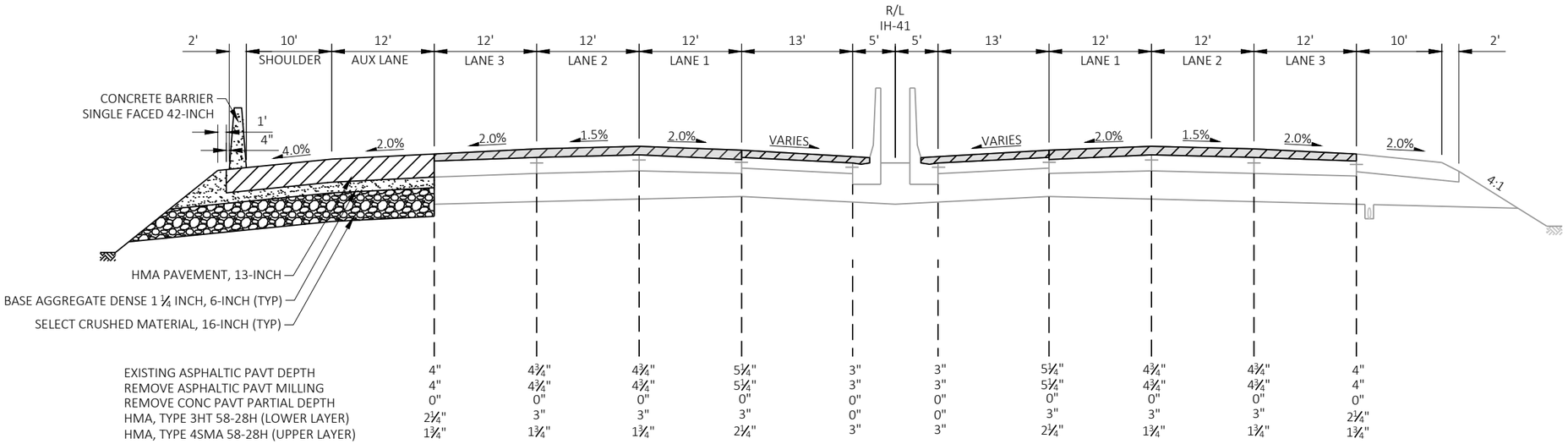
EXISTING HMA PAVEMENT
PROPOSED HMA PAVEMENT



STA 178+50 - STA 179+73
STA 181+43 - STA 181+77

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET PRE_13 E

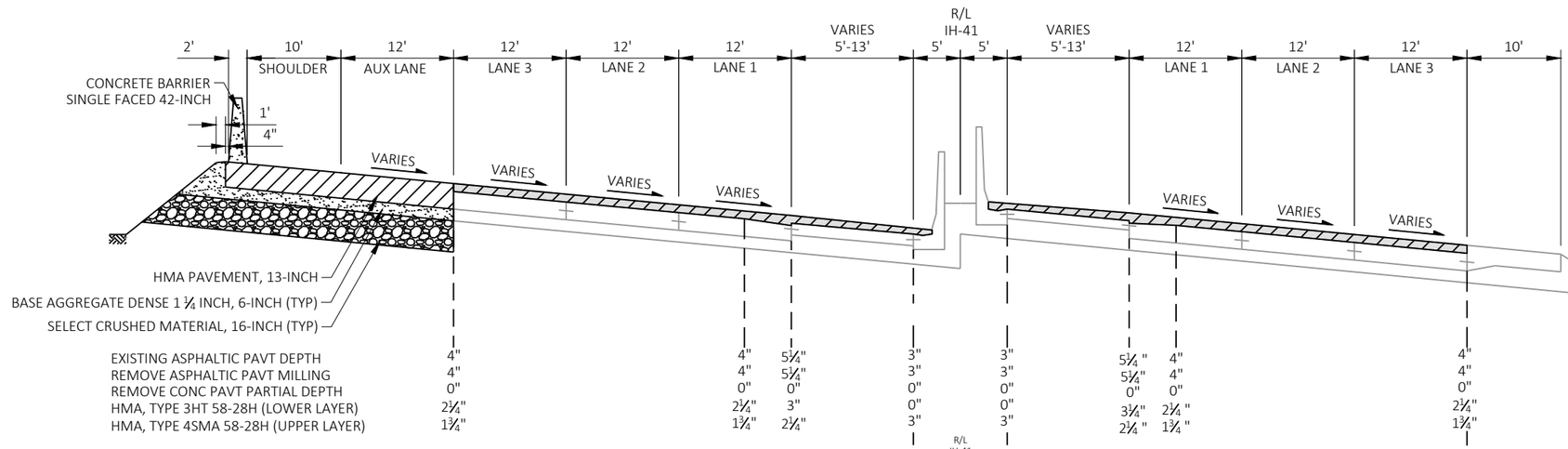
FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020302-TS_PROPOSED.DWG
LAYOUT NAME - 020302-ts
PLOT DATE : 9/22/2021 11:07 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN: 15 FT



EXISTING ASPHALTIC PAVT DEPTH	4"	4¾"	4¾"	5¼"	3"	3"	5¼"	4¾"	4¾"	4"
REMOVE ASPHALTIC PAVT MILLING	4"	4¾"	4¾"	5¼"	3"	3"	5¼"	4¾"	4¾"	4"
REMOVE CONC PAVT PARTIAL DEPTH	0"	0"	0"	0"	0"	0"	0"	0"	0"	0"
HMA, TYPE 3HT 58-28H (LOWER LAYER)	2¼"	3"	3"	3"	0"	0"	3"	3"	3"	2¼"
HMA, TYPE 4SMA 58-28H (UPPER LAYER)	1¾"	1¾"	1¾"	2¼"	3"	3"	2¼"	1¾"	1¾"	1¾"

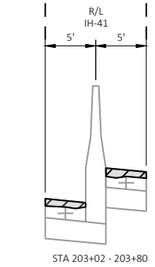
PROPOSED TYPICAL NORMAL SECTION

STA 194+15 - STA 195+00

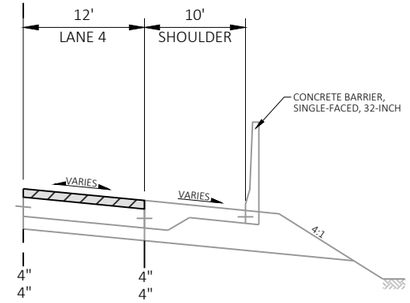


EXISTING ASPHALTIC PAVT DEPTH	4"	5¼"	3"	3"	5¼"	4"	4"	4"	4"
REMOVE ASPHALTIC PAVT MILLING	4"	5¼"	3"	3"	5¼"	4"	4"	4"	4"
REMOVE CONC PAVT PARTIAL DEPTH	0"	0"	0"	0"	0"	0"	0"	0"	0"
HMA, TYPE 3HT 58-28H (LOWER LAYER)	2¼"	3"	3"	3"	3¼"	2¼"	2¼"	2¼"	2¼"
HMA, TYPE 4SMA 58-28H (UPPER LAYER)	1¾"	2¼"	3"	3"	2¼"	1¾"	1¾"	1¾"	1¾"

EXISTING SUPERELEVATION:			
TRANSITION TO SUPER :	195+00	TO	198+00
FULL SUPER (3.5%) :	198+00	TO	203+00
TRANSITION TO NORMAL:	203+00	TO	206+00



STA 203+02 - 203+80



EXISTING ASPHALTIC PAVT DEPTH	4"	4"
REMOVE ASPHALTIC PAVT MILLING	4"	4"
REMOVE CONC PAVT PARTIAL DEPTH	0"	0"
HMA, TYPE 3HT 58-28H (LOWER LAYER)	2¼"	2¼"
HMA, TYPE 4SMA 58-28H (UPPER LAYER)	1¾"	1¾"

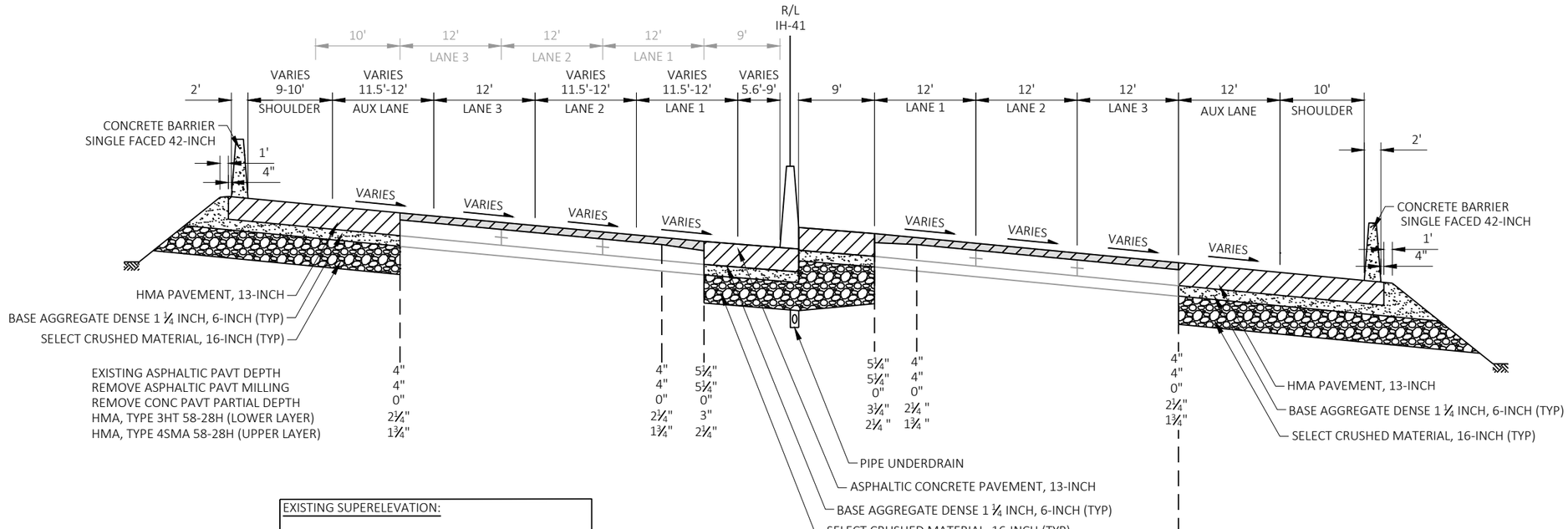
STA 195+21 - STA 203+80

EXISTING HMA PAVEMENT
PROPOSED HMA PAVEMENT

PROPOSED TYPICAL SUPERELEVATED SECTION

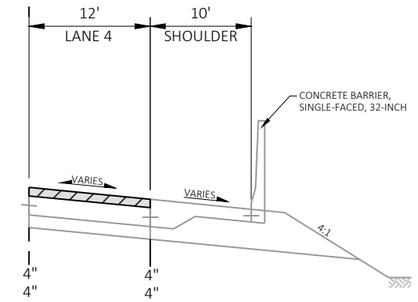
STA 195+00 - STA 203+80

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET PRE_14 E



EXISTING SUPERELEVATION:

TRANSITION TO SUPER :	195+00	TO	198+00
FULL SUPER (3.5%) :	198+00	TO	203+00
TRANSITION TO NORMAL:	203+00	TO	206+00



EXISTING ASPHALTIC PAVT DEPTH	4"	4"
REMOVE ASPHALTIC PAVT MILLING	4"	4"
REMOVE CONC PAVT PARTIAL DEPTH	0"	0"
HMA, TYPE 3HT 58-28H (LOWER LAYER)	2¼"	2¼"
HMA, TYPE 4SMA 58-28H (UPPER LAYER)	1¾"	1¾"

STA 203+80 - STA 203+95

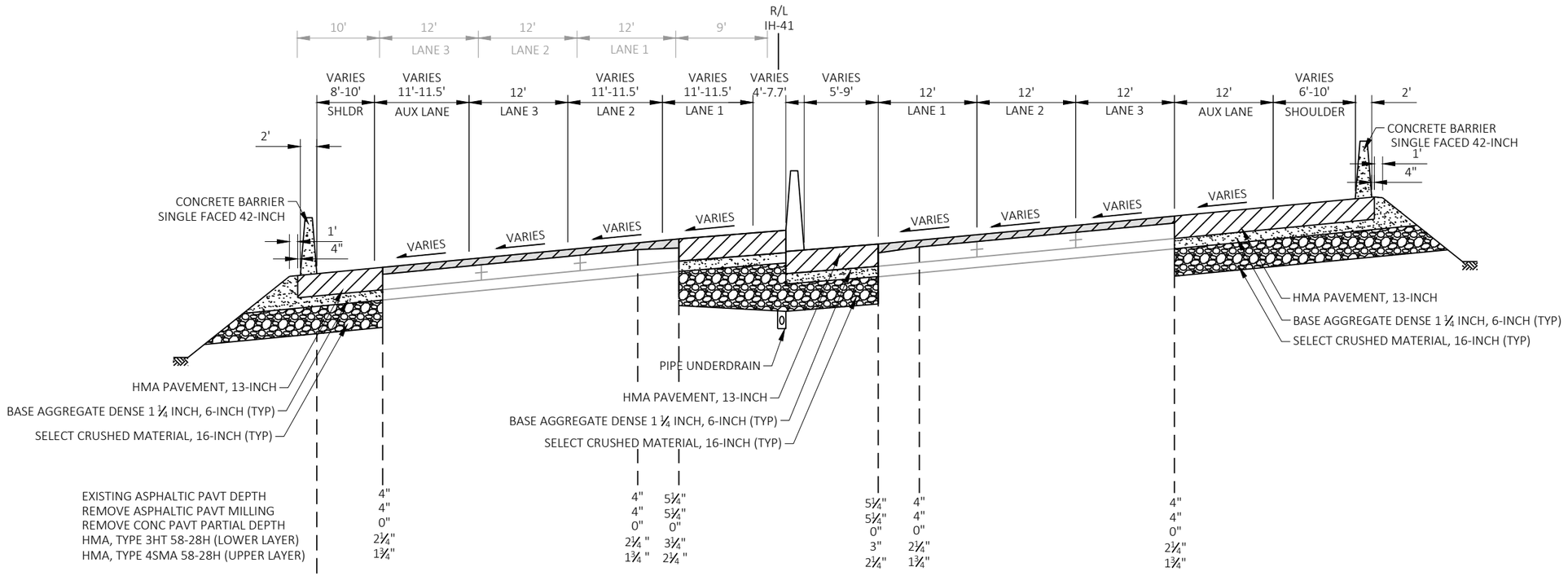
EXISTING HMA PAVEMENT
PROPOSED HMA PAVEMENT

PROPOSED TYPICAL SUPERELEVATED SECTION

STA 203+80 - STA 206+00

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET PRE_15 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020302-TS_PROPOSED.DWG
LAYOUT NAME - 020304-ts
PLOT DATE : 9/22/2021 11:07 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:15 FT



EXISTING SUPERELEVATION:

TRANSITION TO SUPER :	206+00	TO	208+75
FULL SUPER (3.5%) :	208+75	TO	218+25
TRANSITION TO NORMAL:	218+25	TO	221+25

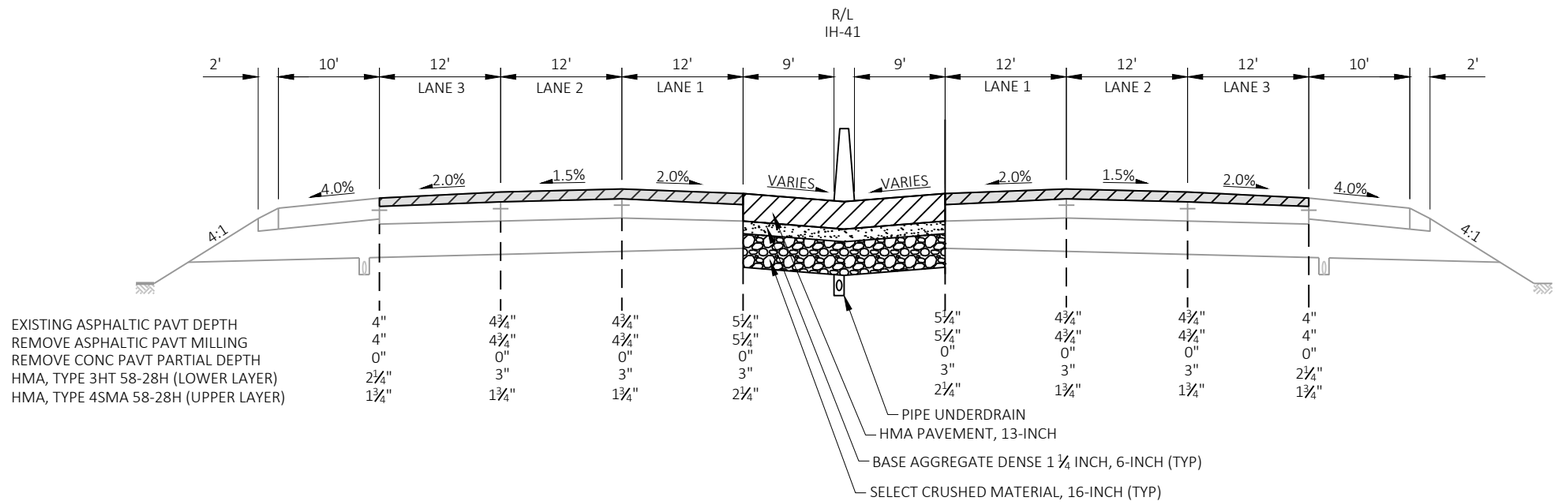
PROPOSED TYPICAL SUPERELEVATED SECTION

STA 206+00 - STA 209+15
STA 212+73 - STA 221+25

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET PRE_16 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020302-TS_PROPOSED.DWG
LAYOUT NAME - 020305-ts
PLOT DATE : 9/22/2021 11:07 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



EXISTING HMA PAVEMENT
PROPOSED HMA PAVEMENT

PROPOSED TYPICAL NORMAL SECTION

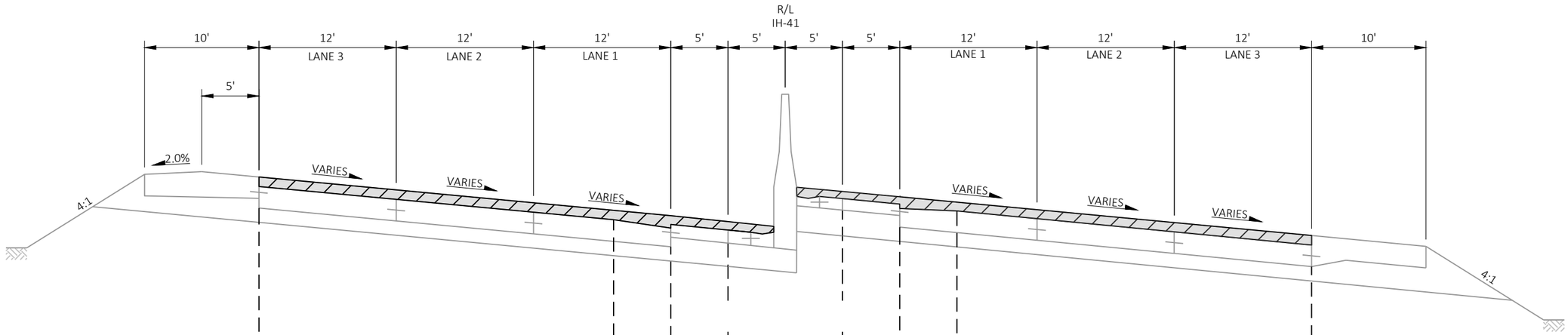
STA 221+25 - STA 223+29

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020302-TS_PROPOSED.DWG
LAYOUT NAME - 020306-ts

PLOT DATE : 9/22/2021 11:07 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:15 FT

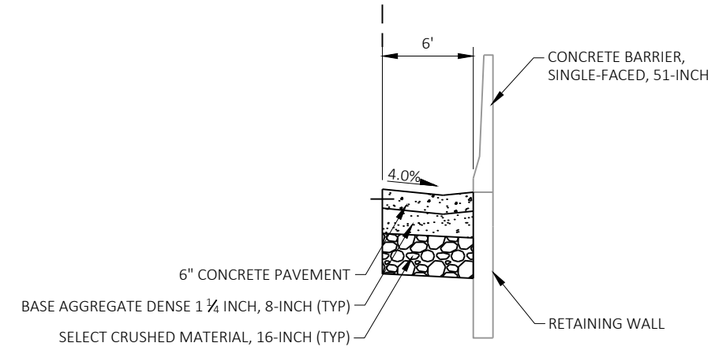
PRE_17



EXISTING ASPHALTIC PAVT DEPTH	4"	4"	5¼"	3"	3"	5¼"	4"	4"	4"	4"
REMOVE ASPHALTIC PAVT MILLING	4"	4"	5¼"	3"	3"	5¼"	4"	4"	4"	4"
REMOVE CONC PAVT PARTIAL DEPTH	0"	0"	0"	0"	0"	0"	0"	0"	0"	0"
HMA, TYPE 3HT 58-28H (LOWER LAYER)	2¼"	2¼"	3"	0"	0"	3¼"	2¼"	2¼"	2¼"	2¼"
HMA, TYPE 4SMA 58-28H (UPPER LAYER)	1¾"	1¾"	2¼"	3"	3"	2¼"	1¾"	1¾"	1¾"	1¾"

EXISTING SUPERELEVATION:

TRANSITION TO SUPER:	230+75	TO	236+00
FULL SUPER (4.7%) :	236+00	TO	237+00
TRANSITION TO NORMAL:	237+00	TO	240+50



STA 234+72 - STA 240+22

PROPOSED TYPICAL SUPERELEVATED SECTION

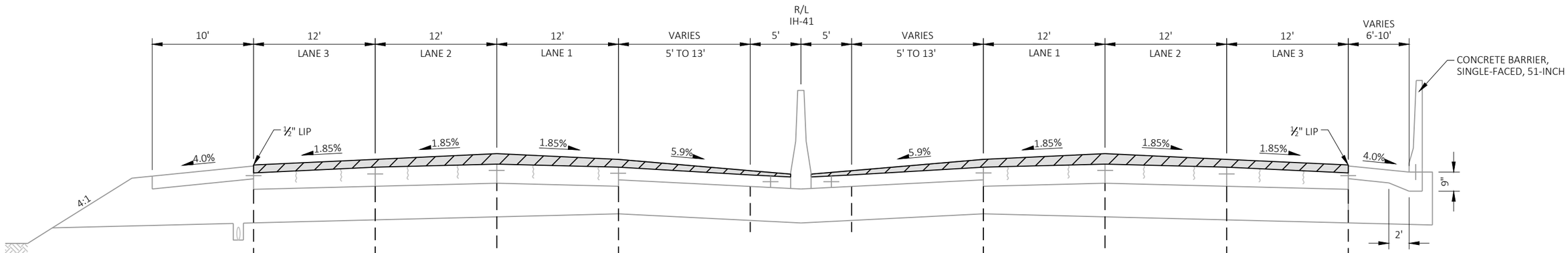
STA 230+75 - STA 232+47
STA 234+72 - STA 240+50

EXISTING HMA PAVEMENT
PROPOSED HMA PAVEMENT

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET PRE_18 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020302-TS_PROPOSED.DWG
LAYOUT NAME - 020307-ts
PLOT DATE : 9/22/2021 11:07 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



EXISTING ASPHALTIC PAVT DEPTH	4½"	4½"	5"	4½"	2"	2"	4½"	5"	4½"	4½"
REMOVE ASPHALTIC PAVT MILLING	4½"	4½"	5"	4½"	2"	2"	4½"	5"	4½"	4½"
REMOVE CONC PAVT PARTIAL DEPTH	0"	0"	0"	0"	0"	0"	0"	0"	0"	0"
HMA, TYPE 3HT 58-28H (LOWER LAYER)	2¾"	2¾"	3"	2¾"	0"	0"	2¾"	3"	2¾"	2¾"
HMA, TYPE 4SMA 58-28H (UPPER LAYER)	1¾"	1¾"	2"	1¾"	2"	2"	1¾"	2"	1¾"	1¾"

PROPOSED TYPICAL NORMAL SECTION

STA 240+50 - STA 243+35

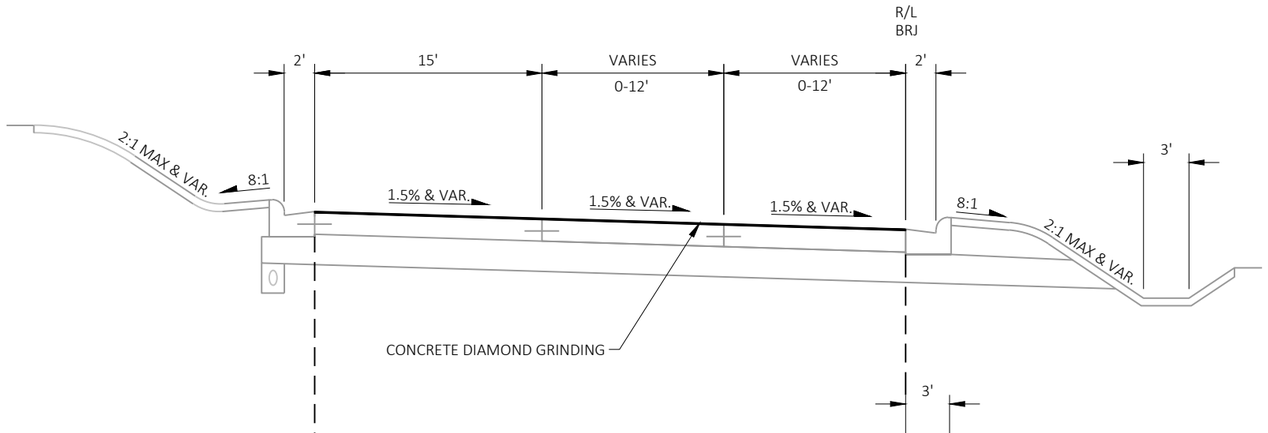
EXISTING HMA PAVEMENT
PROPOSED HMA PAVEMENT

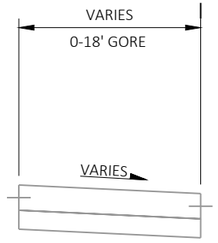
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET E

PRE_19

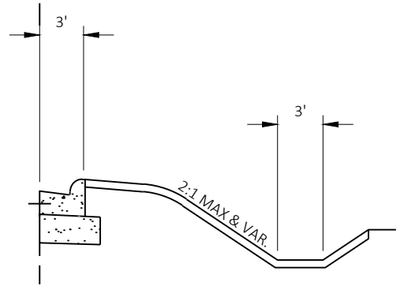
FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020302-TS_PROPOSED.DWG
LAYOUT NAME - 020308-ts

PLOT DATE : 9/22/2021 11:07 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT

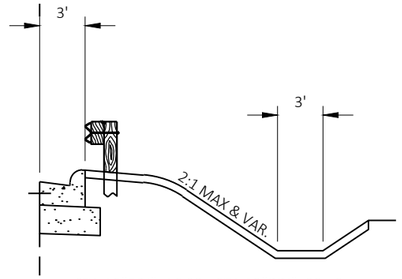




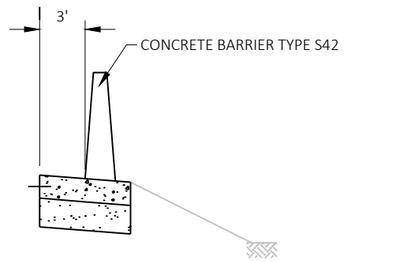
STA 12"BRJ"+85.10 - STA 20"BRJ"+68.89



STA 8"BRJ"+74.95 - STA 10"BRJ"+16.92



STA 10"BRJ"+16.92 - STA 12"BRJ"+32.73



STA 12"BRJ"+32.40 - STA 12"BRJ"+61.94

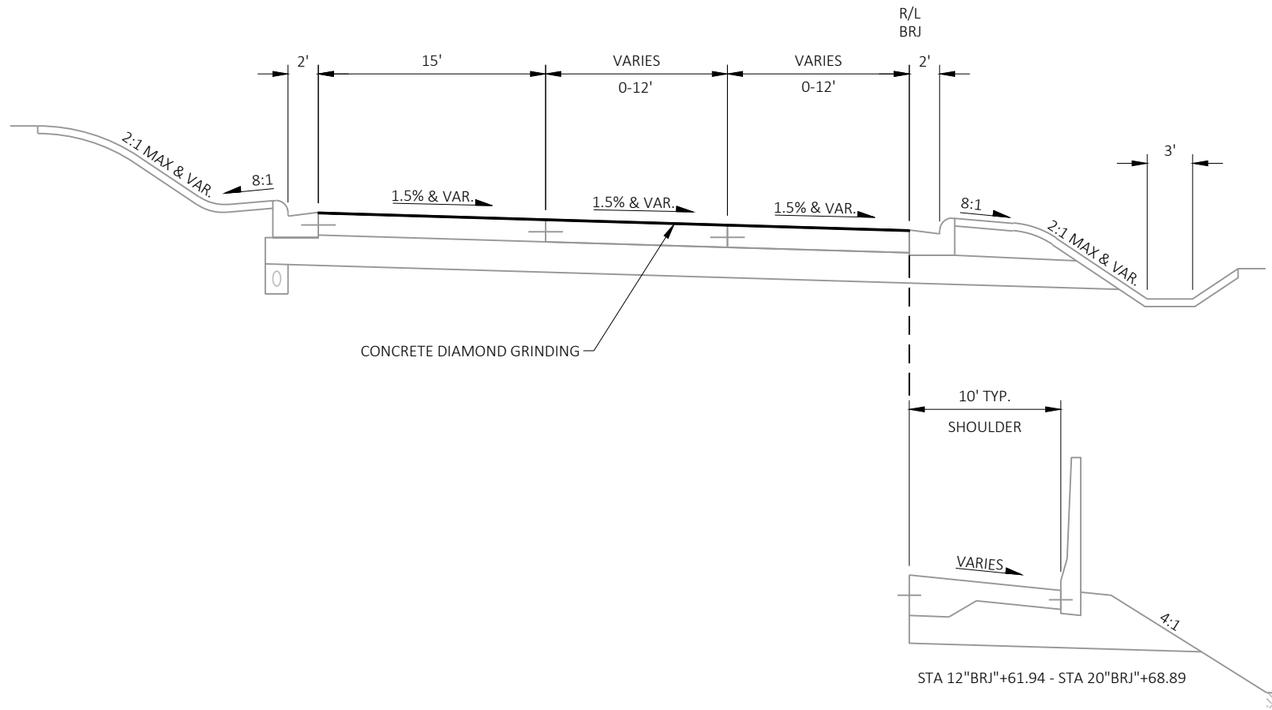
PROPOSED TYPICAL SECTION

BURLEIGH ST NB ENTRANCE RAMP
STA 5"BRJ"+00 - STA 20"BRJ"+68.89

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET PRE_20 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_020302-TS_PROPOSED.DWG
LAYOUT NAME - 020309-ts
PLOT DATE : 9/22/2021 11:07 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



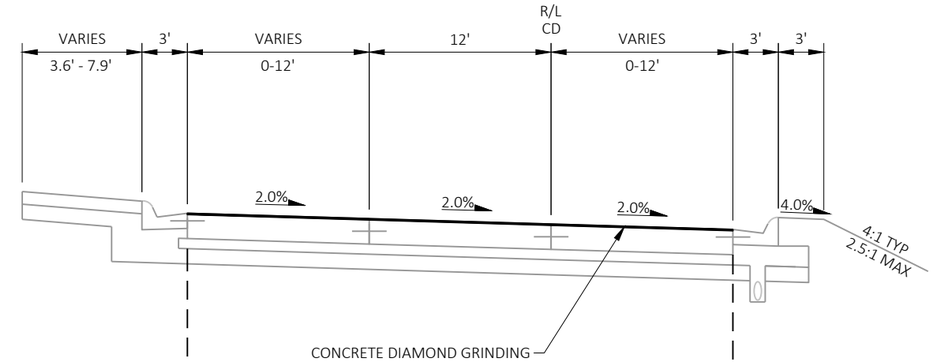
PROPOSED TYPICAL SECTION (CONT'D)

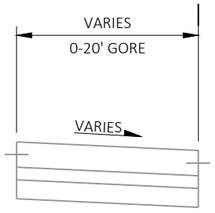
BURLEIGH ST NB ENTRANCE RAMP

STA 5"BRJ"+00 - STA 20"BRJ"+68.89

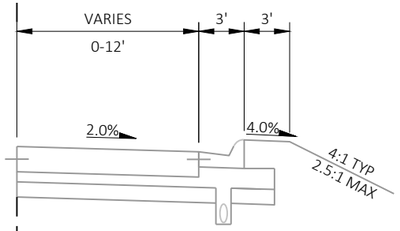
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET E

2

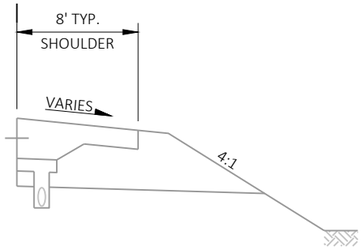




STA 49"CD"+31.54 - STA 53"CD"+78.18



STA 46"CD"+84.51 - STA 48"CD"+31.83



STA 48"CD"+31.83 - STA 53"CD"+78.18

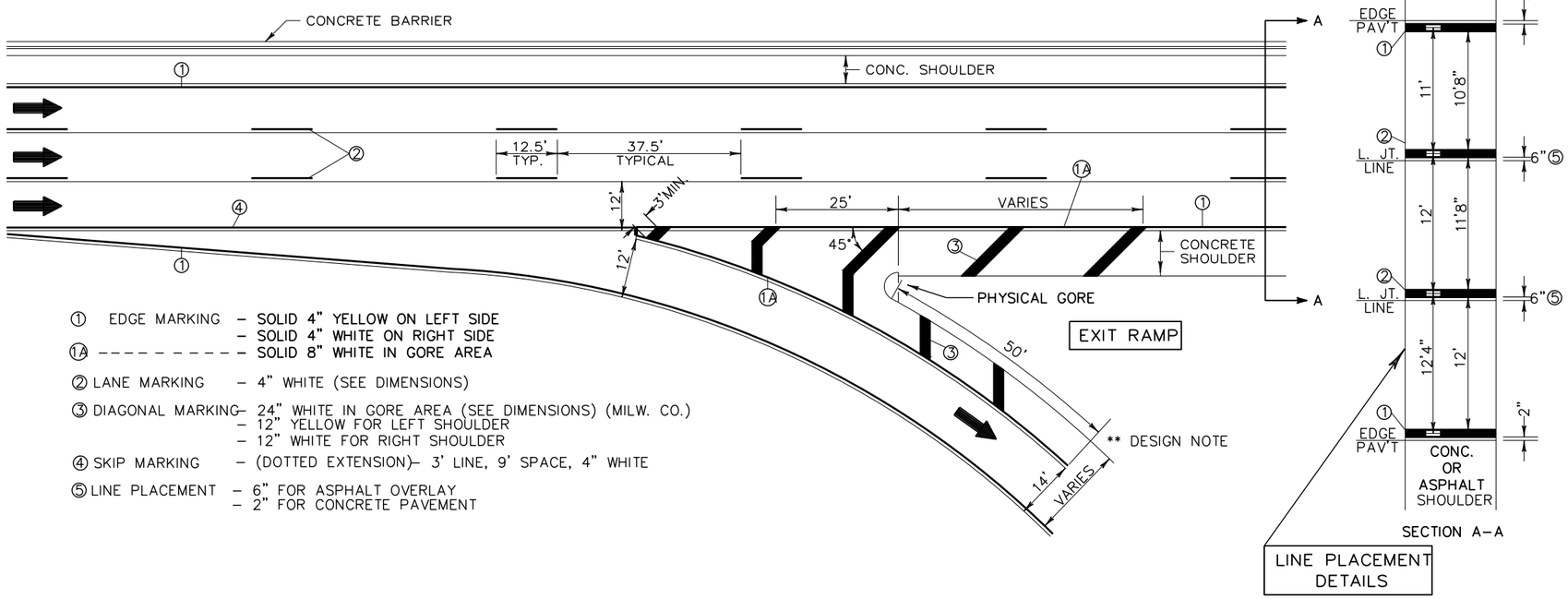
PROPOSED TYPICAL SECTION

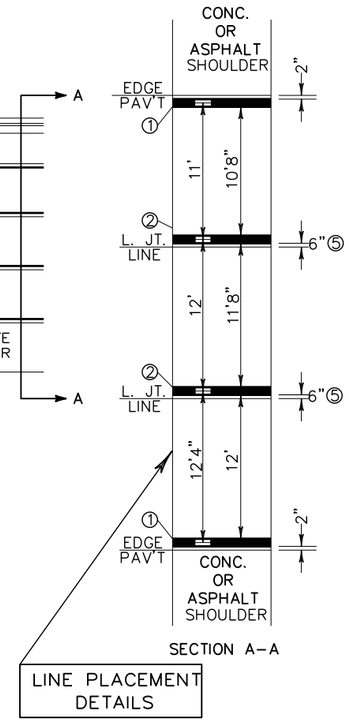
CAPITOL DR NB ENTRANCE RAMP
STA 34"CD"+44.88 - STA 53"CD"+78.18

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET E

2

DETAIL 1



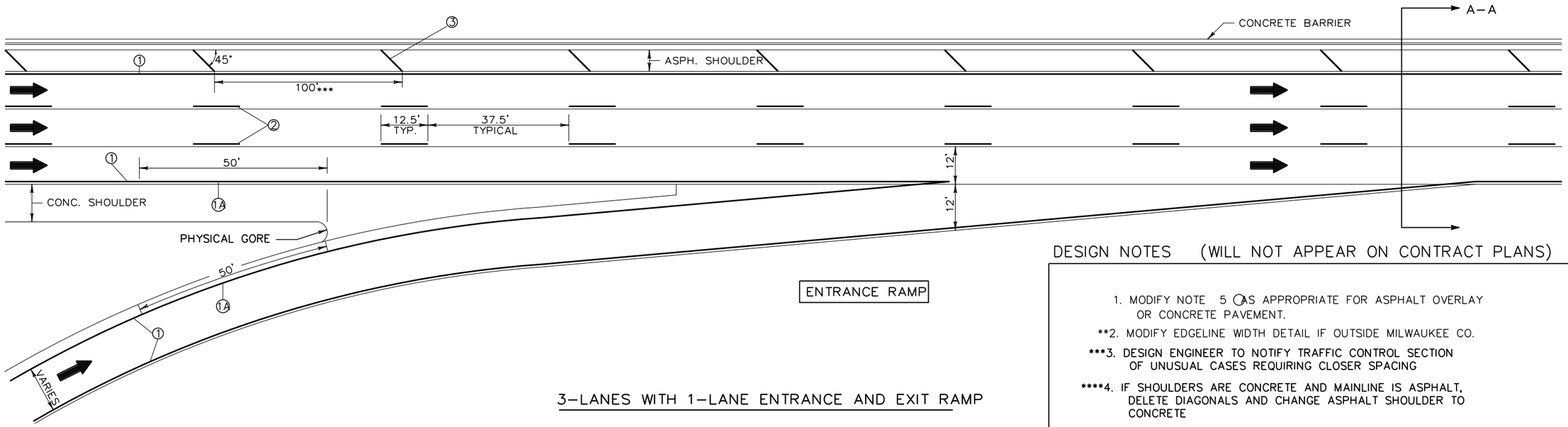


SECTION A–A

LINE PLACEMENT DETAILS

NOTES:

1. THE 12" WIDE DIAGONAL SHOULDER MARKING SHALL BE USED ONLY WHERE THE ASPHALTIC CONCRETE SHOULDER ABUTS ASPHALTIC CONC. PAV'T. IF THERE ARE CONTINUOUS RUMBLE STRIPS, DO NOT USE DIAGONAL SHOULDER MARKING.
2. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3' LONG LINE AND A 9' SKIP.
3. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
4. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
5. SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4"x4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50' INTERVALS, INCIDENTAL TO PAV'T MARKING.



3–LANES WITH 1–LANE ENTRANCE AND EXIT RAMP

DESIGN NOTES (WILL NOT APPEAR ON CONTRACT PLANS)

1. MODIFY NOTE 5 ⓐ AS APPROPRIATE FOR ASPHALT OVERLAY OR CONCRETE PAVEMENT.

**2. MODIFY EDGELINE WIDTH DETAIL IF OUTSIDE MILWAUKEE CO.

***3. DESIGN ENGINEER TO NOTIFY TRAFFIC CONTROL SECTION OF UNUSUAL CASES REQUIRING CLOSER SPACING

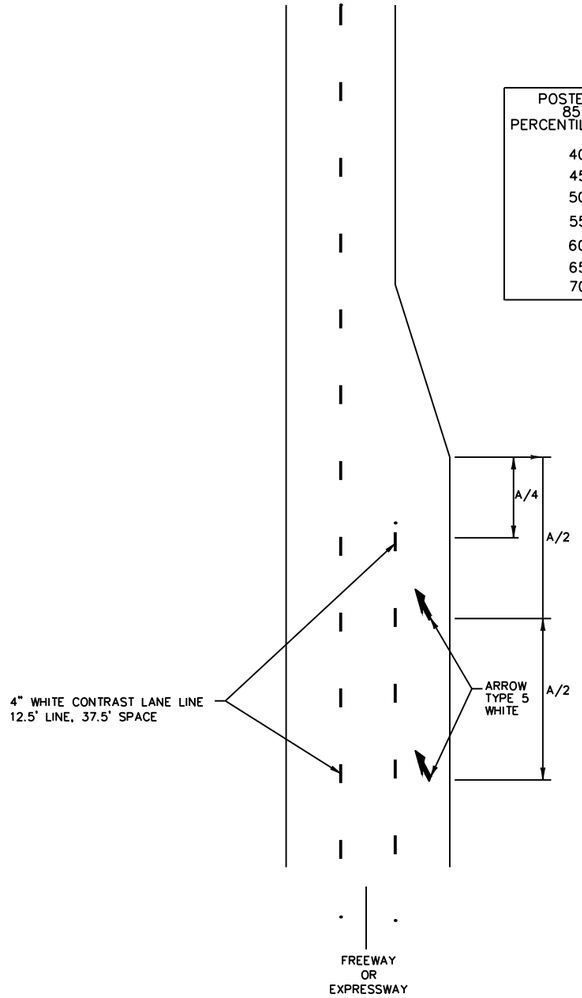
****4. IF SHOULDERS ARE CONCRETE AND MAINLINE IS ASPHALT, DELETE DIAGONALS AND CHANGE ASPHALT SHOULDER TO CONCRETE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET E

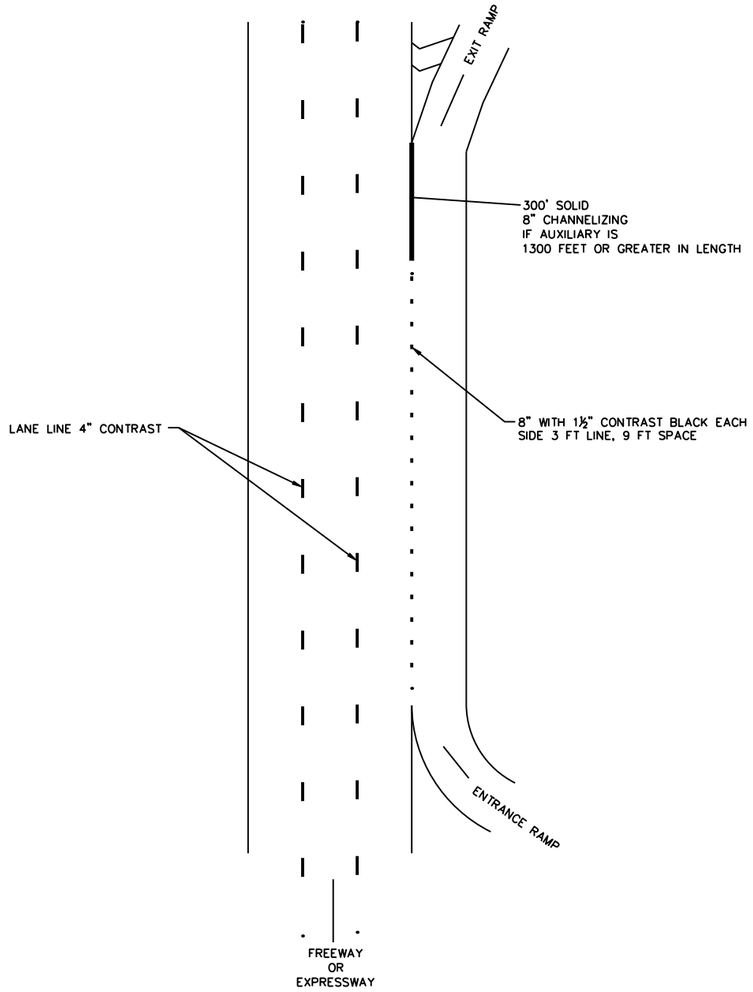
FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021001-CD2.DWG
LAYOUT NAME - 01
PLOT DATE : 6/30/2021 10:45 AM
PLOT BY : VINDEDAHL, EMMA M
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

DISTANCE TABLE

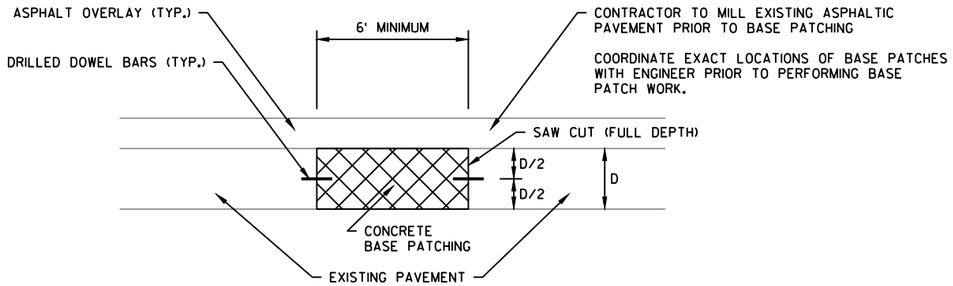
POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
40	670
45	775
50	885
55	990
60	1100
65	1200
70	1300



LANE REDUCTION MARKINGS



LANE DROP MARKINGS
SERVICE INTERCHANGES

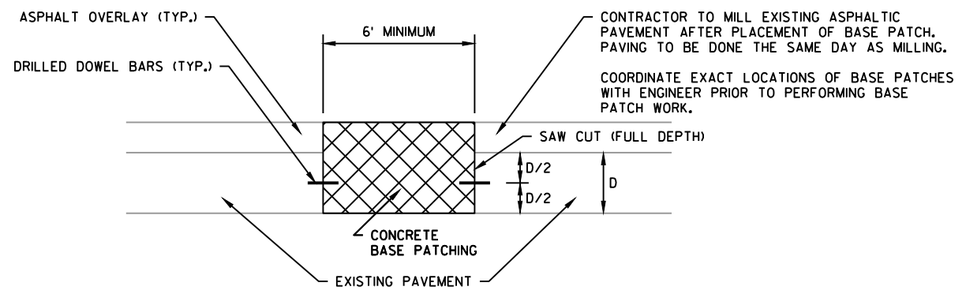


DETAIL OF BASE PATCH, CONCRETE

DETAIL TO BE USED IN LOCATIONS WHERE THE ROADWAY IS FULLY CLOSED (DAY AND NIGHT WORK).
SEE S.D.D. "BASE PATCHING CONCRETE" FOR ADDITIONAL DETAILS

NOTES: CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL BELOW BASE PATCH AREA AND REPLACE WITH BASE AGGREGATE DENSE 1-1/4".

LOCATION AND AREA OF BASE PATCHING SHALL BE PLACED AS SHOWN ON PLANS AS DIRECTED BY THE ENGINEER.



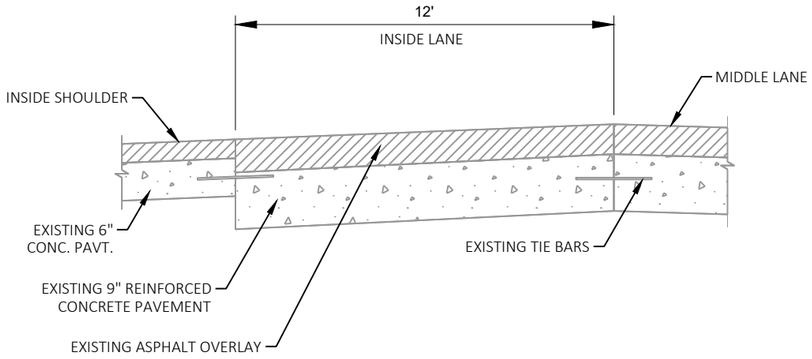
DETAIL OF BASE PATCH, CONCRETE SHES

DETAIL TO BE USED IN LOCATIONS WHERE THE ROADWAY HAS TO BE OPENED TO TRAFFIC DURING THE DAY (NIGHT-WORK ONLY).
SEE S.D.D. "BASE PATCHING CONCRETE" FOR ADDITIONAL DETAILS

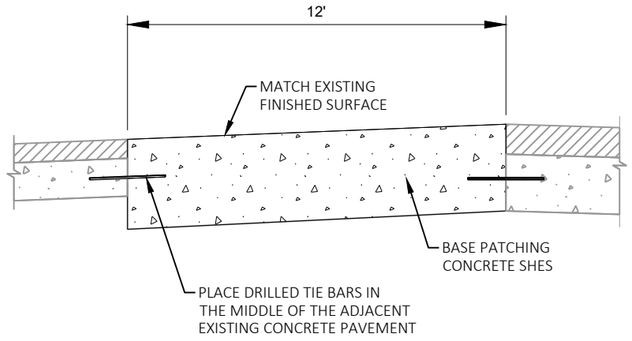
NOTES: CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL BELOW BASE PATCH AREA AND REPLACE WITH BASE AGGREGATE DENSE 1-1/4".

LOCATION AND AREA OF BASE PATCHING SHALL BE PLACED AS SHOWN ON PLANS AS DIRECTED BY THE ENGINEER.

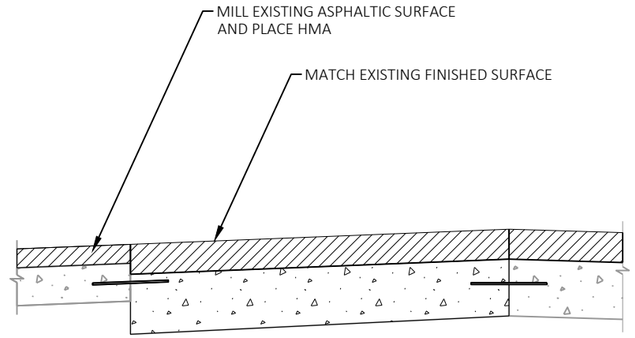
2



EXISTING SECTION



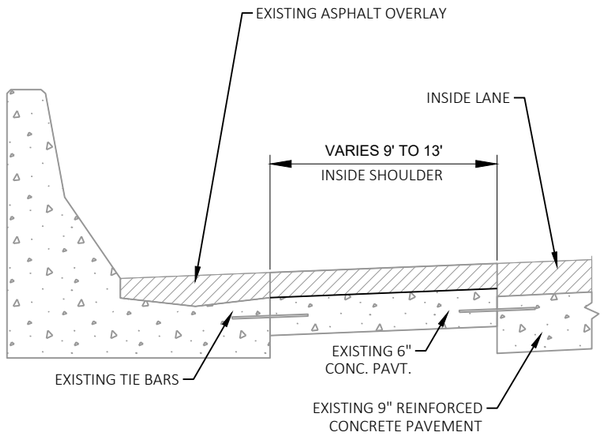
BASE PATCHING



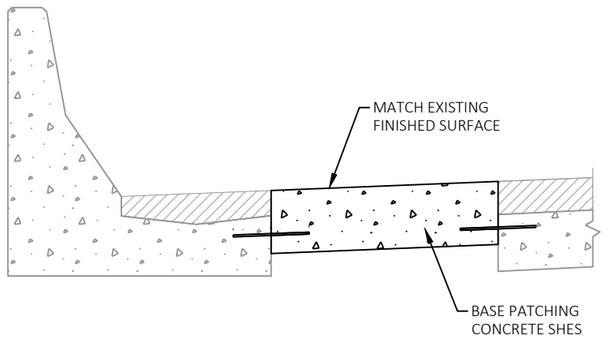
*REMOVING CONCRETE SURFACE PARTIAL DEPTH IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING

MILL AND OVERLAY

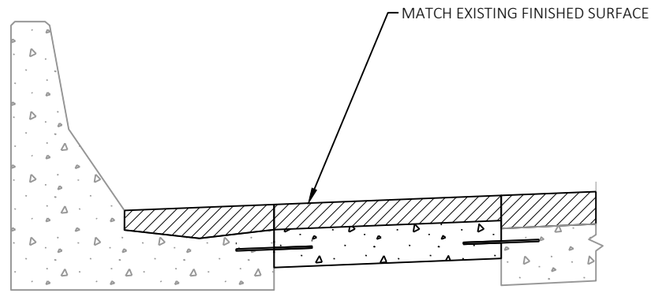
LANE BASE PATCHING AND MILL/OVERLAY OPERATIONS



EXISTING SECTION



BASE PATCHING



*REMOVING CONCRETE SURFACE PARTIAL DEPTH IS INCIDENTAL TO REMOVING ASPHALTIC SURFACE MILLING

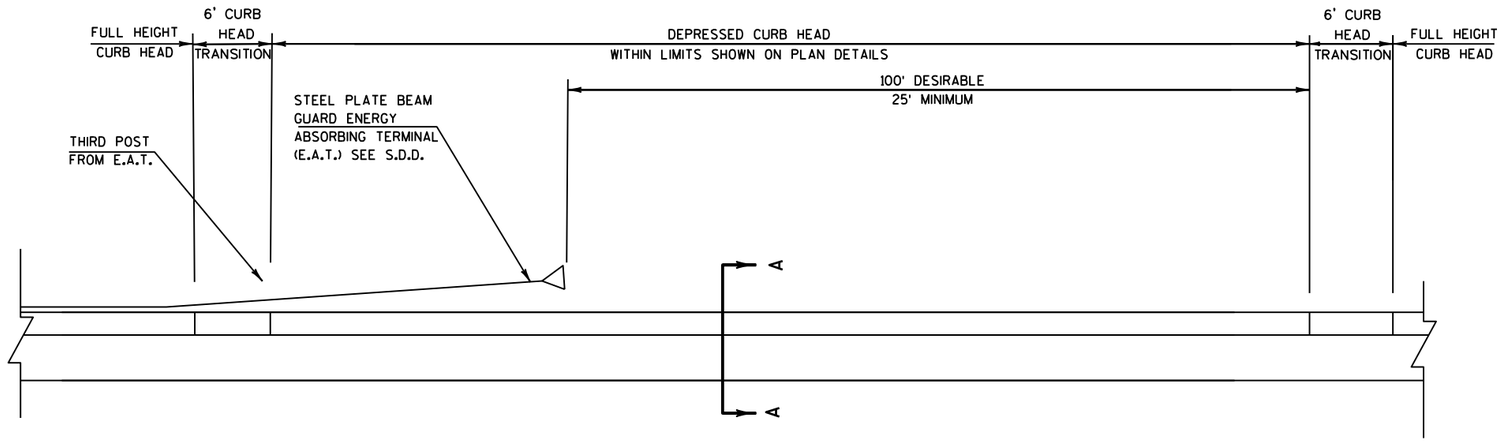
MILL AND OVERLAY

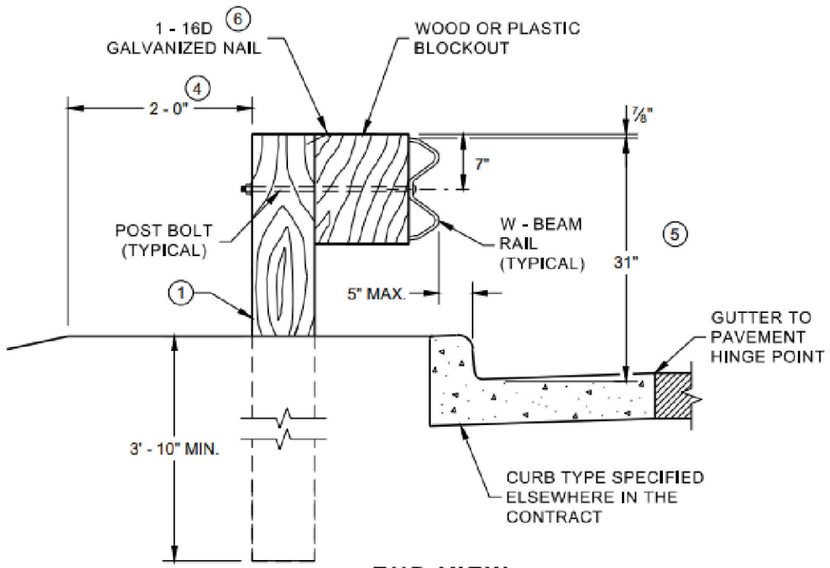
SHOULDER BASE PATCHING AND MILL/OVERLAY OPERATIONS

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET PRE_26 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021001-CD2.DWG
LAYOUT NAME - 04
PLOT DATE : 6/30/2021 10:45 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

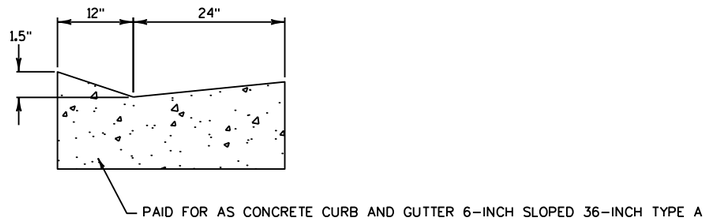
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END VIEW

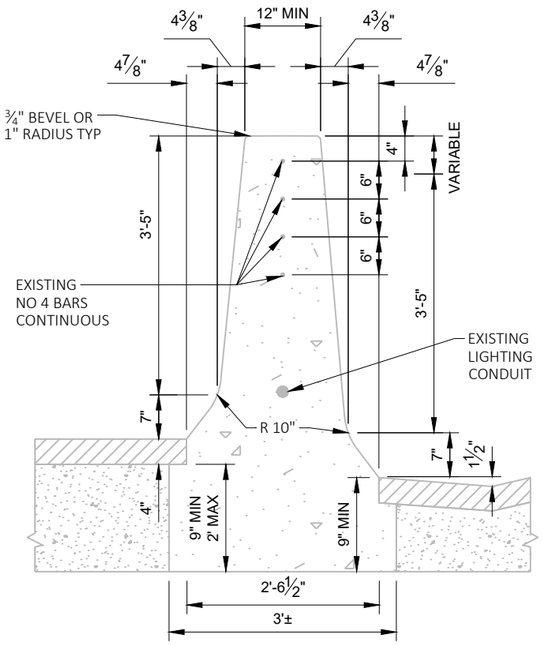
LOCATED ALONG A CURBED ROADWAY



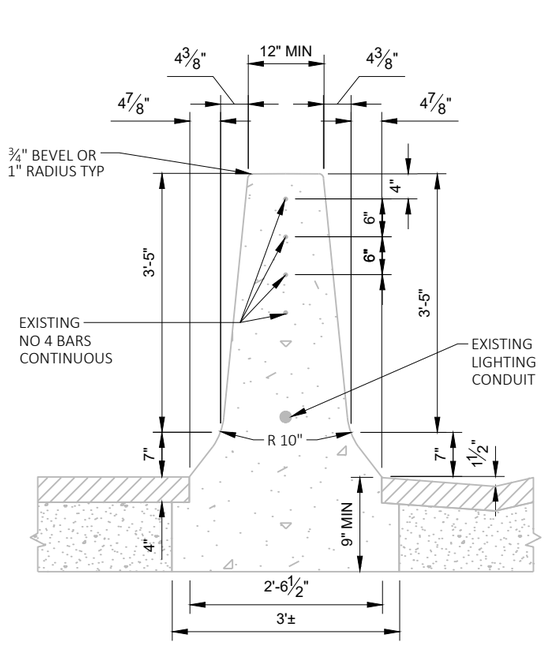
SECTION A-A

DEPRESSED CURB

DEPRESSED CURB HEAD AT BEAM GUARD TERMINAL

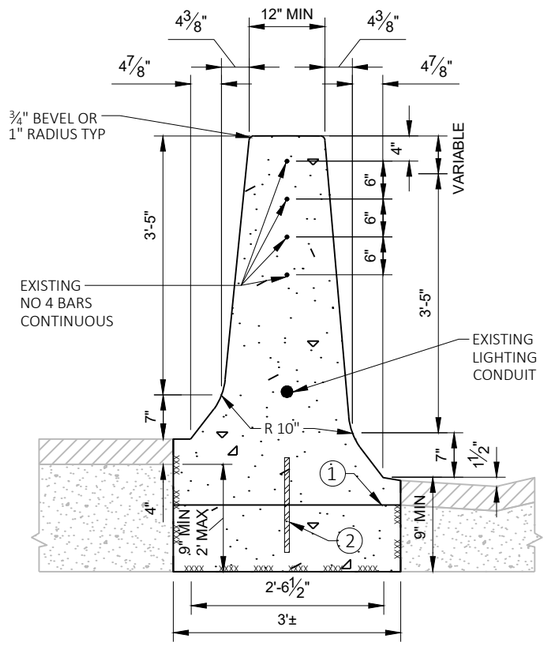


EXISTING CAST-IN-PLACE
IN STEPPED MEDIAN

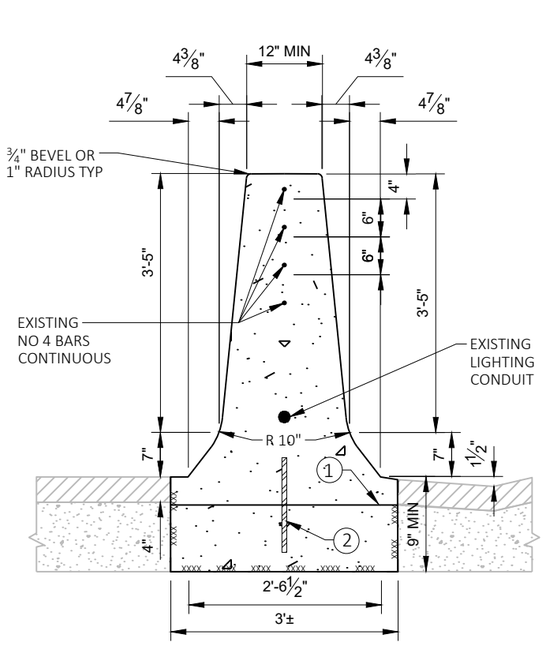


EXISTING CAST-IN-PLACE
IN SYMMETRICAL MEDIAN

EXISTING CONCRETE BARRIER DOUBLE-FACED 51-INCH, MODIFIED



CAST-IN-PLACE
IN STEPPED MEDIAN



CAST-IN-PLACE
IN SYMMETRICAL MEDIAN

CONCRETE BARRIER DOUBLE-FACED 51-INCH, SPECIAL

GENERAL NOTES

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

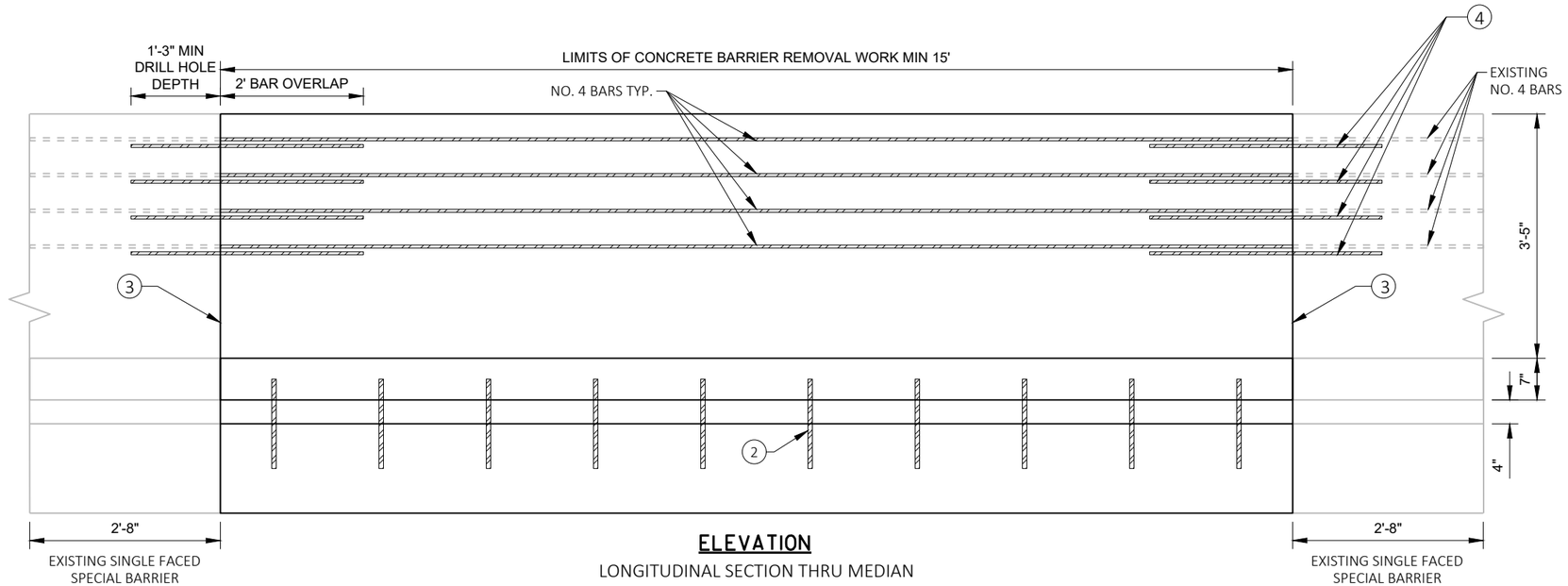
ALL BAR STEEL REINFORCEMENT USING EPOXY SHALL BE COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF STANDARD SPEC.

(1) OPTIONAL CONSTRUCTION JOINT WITH ROUGH SURFACE FINISH

(2) NO. 6 X 15" BARS AT 1'-6" C-C TO BE USED WHEN OPTIONAL CONSTRUCTION JOINT IS USED. BARS MAY BE PLACED AFTER CONCRETE IS POURED OR IF THE FOOTING IS LEFT IN PLACE
7 1/2" DRILL & EPOXY EMBEDMENT, TYP.

(3) SAW CUT TO PROVIDE STRAIGHT FACE FOR REPLACEMENT OF CONCRETE

(4) NO. 4 TIE BARS ANCHORED WITH MASONRY ANCHORS
TYPE S - 3/4", TYP.



EXISTING SINGLE FACED
SPECIAL BARRIER

EXISTING SINGLE FACED
SPECIAL BARRIER

ELEVATION

LONGITUDINAL SECTION THRU MEDIAN

CONCRETE BARRIER DOUBLE-FACED 51-INCH, SPECIAL - CAST-IN-PLACE IN SYMMETRICAL MEDIAN

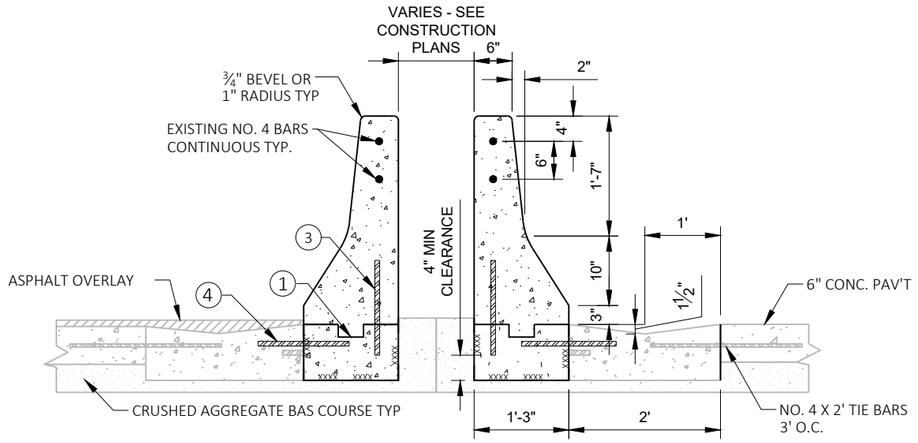
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET PRE_28 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\021001-CD.DWG
LAYOUT NAME - DOUBLE-FACED

PLOT DATE : 1/12/2021 9:44 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : _____ PLOT SCALE : 1 IN:2 FT

WISDOT/CADDS SHEET 42

2



CONCRETE BARRIER SINGLE-FACED 32-INCH

TRANSVERSE SECTION THRU MEDIAN

GENERAL NOTES

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

ALL BAR STEEL REINFORCEMENT USING EPOXY SHALL BE COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF STANDARD SPEC.

(1) OPTIONAL CONSTRUCTION JOINT WITH ROUGH SURFACE FINISH KEY WAY 2" X 4" (NOM), TYP.

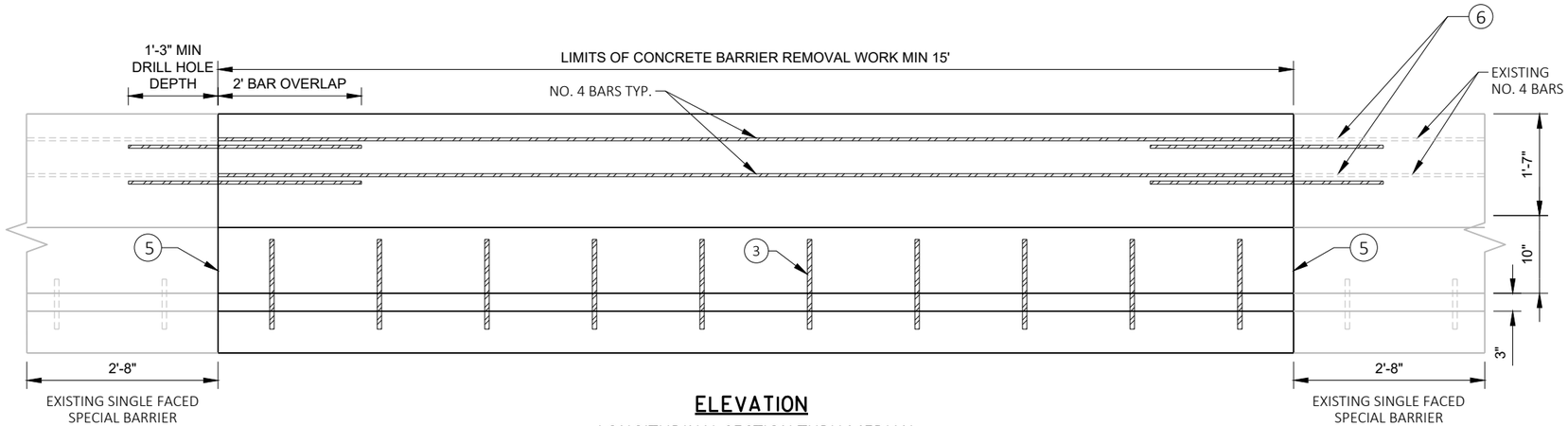
(2) NO. 6 X 1'-6" DEFORMED BARS SPACED 4' C-C TO BE USED ONLY WHEN OPTIONAL CONST. JOINT IS USED. BARS MAY BE INSERTED AFTER CONCRETE IS POURED, TYP.

(3) NO. 6 X 15" BARS AT 1'-6" C-C TO BE USED WHEN OPTIONAL CONSTRUCTION JOINT IS USED. BARS MAY BE PLACED AFTER CONCRETE IS POURED OR IF THE FOOTING IS LEFT IN PLACE
7 1/2" DRILL & EPOXY EMBEDMENT, TYP.

(4) NO. 6 X 12" TIE BAR 6" DRILL MAY BE INSERTED AFTER CONCRETE IS POURED, TYP.

(5) SAW CUT TO PROVIDE STRAIGHT FACE FOR REPLACEMENT OF CONCRETE

(6) NO. 4 TIE BARS ANCHORED WITH MASONRY ANCHORS TYPE S - ¾", TYP.



ELEVATION

LONGITUDINAL SECTION THRU MEDIAN

CONCRETE BARRIER SINGLE-FACED 32-INCH

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET PRE_29 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\021001-CD.DWG
LAYOUT NAME - SINGLE-FACED

PLOT DATE : 1/12/2021 9:44 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : _____ PLOT SCALE : 1 IN:2 FT

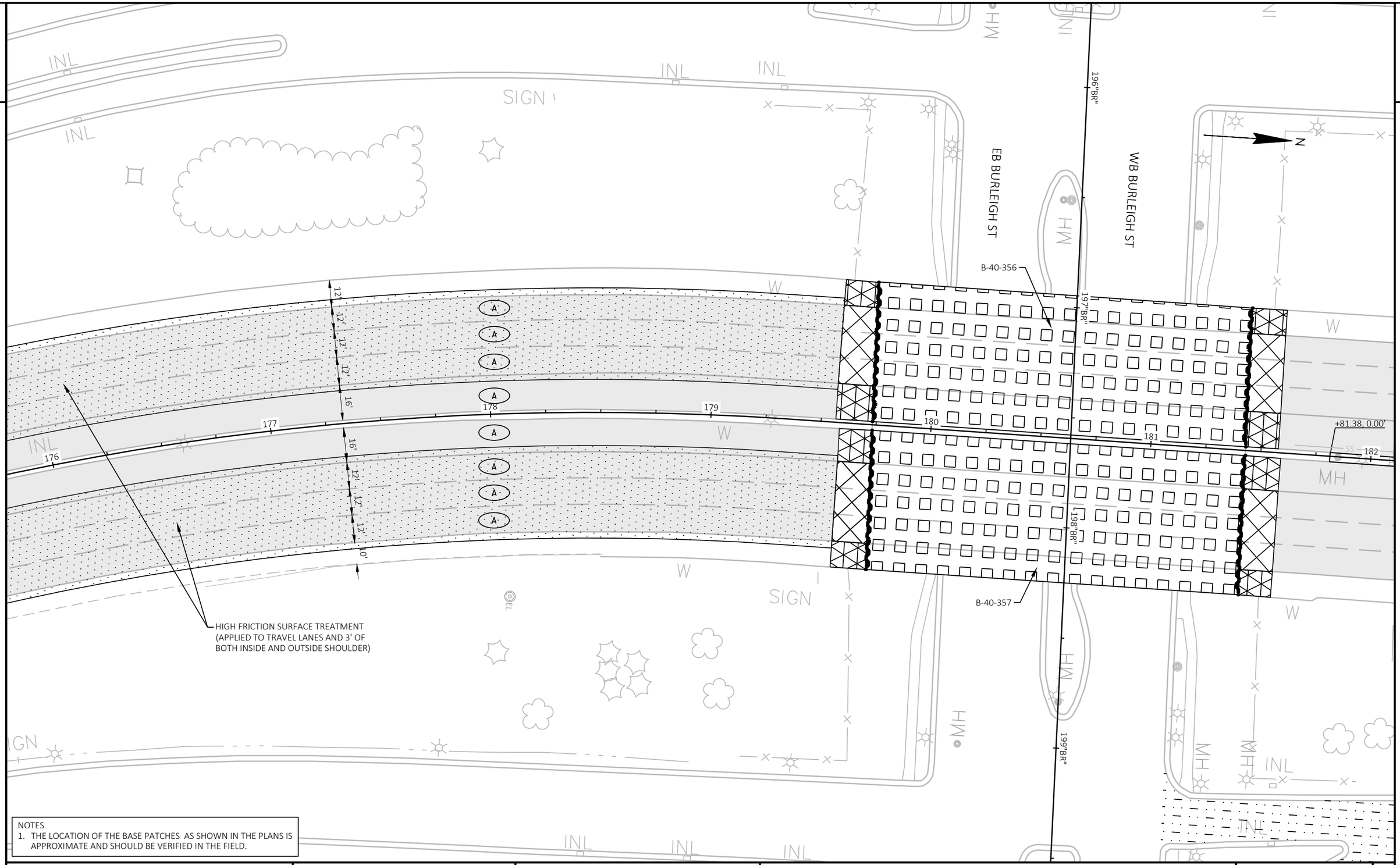
2

LEGEND

AG02	BASE AGGREGATE DENSE 1 1/4-INCH
A	HMA PAVEMENT VARIABLE DEPTH 4 SMA 58-28 H, OVER HMA PAVEMENT 3 HT 58-28 H
B	HMA PAVEMENT 4 SMA 58-28 H, 1 3/4-INCH OVER HMA PAVEMENT 3 HT 58-28 H, 3 1/4-INCH OVER HMA PAVEMENT 3 HT 58-28 H, 4-INCH HMA PAVEMENT 3 HT 58-28 H, 4-INCH
BG12	STEEL PLATE BEAM GUARD CLASS A
BG15	MGS GUARDRAIL 3
BG16	MGS THRIE BEAM TRANSITION
BG17	MGS GUARDRAIL TERMINAL EAT
BG18	MGS GUARDRAIL TYPE 2
CBS	CONCRETE BARRIER TYPE S42
CG24	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
CG25	CURB AND GUTTER TRANSITION -SEE CONSTRUCTION DETAIL
CG26	CONCRETE CURB AND GUTTER 36-INCH TYPE A, DRIVEWAY ENTRANCE
CG60	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE TBTT
CP05	CONCRETE PAVEMENT 8-INCH, DOWELED AND TINED
SCM	SELECT CRUSHED MATERIAL

	BASE PATCHING SHES
	CONCRETE PAVEMENT REPLACEMENT SHES
	CONCRETE PAVEMENT SHES
	CONCRETE PAVEMENT APPROACH SLAB HES
	PPC OVERLAY
	CONCRETE DECK OVERLAY
	THIN POLYMER OVERLAY
	DIAMOND GRINDING
	MILL AND OVERLAY
	PAVEMENT RECONSTRUCTION
	HIGH FRICTION SURFACE TREATMENT
	CRACK REPAIR
	CROSS STITCH LONGITUDINAL CRACK
	EXPANSION JOINT REPLACEMENT
	CRASH CUSHION
	EXPANSION JOINT REPLACEMENT
	CONCRETE BARRIER REPLACEMENT
	EXISTING JOINT LINE
	PROPOSED JOINT LINE

2



NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_31

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021202-PD.DWG
LAYOUT NAME - 021202-pd

PLOT DATE : 10/14/2021 5:02 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

BURLEIGH SB EXIT RAMP

REMOVE EXISTING SIGN STRUCTURE
S-40-400

NEW SIGN STRUCTURE & DMS SIGN
S-40-462
STA. 182+50

SLOPE INTERCEPT

HINGE POINT LINE

B-40-356

+82.21
-64.00'LT
BG16

BG15

+69.10
-64.00'LT

BG17

+22.19
-66.00'LT

+43.26
-64.00'LT

N

SB IH 41

+81.38, 0.00'

+18.63, 0.00'

CONCRETE BARRIER TRANSITION.
CONSTRUCTION DETAIL TO BE
ADDED ONCE SIGN STRUCTURE
DESIGN IS FINALIZED.

NB IH 41

B-40-357

WisDot Lighting in grading

BURLEIGH NB ENTRANCE RAMP

WISDOT
ELECTRIC

WISDOT
FIBER OPTIC

RL RAMP "BRJ"

12"BRJ"

11"BRJ"

10"BRJ"

9"BRJ"

8"BRJ"

12"BRJ1"

11"BRJ1"

10"BRJ1"

9"BRJ1"

CG24

CG25

CG26

BG17

BG15

CG60

CBS

BG16

"BRJ"+74.95
22.20'RT

"BRJ1"+17.49
0.00'

"BR1"+17.49
3.00'RT

"BRJ1"+70.61
2.42'RT

"BR1"+86.45
0.00'

"BR1"+95.50
2.42'RT

"BR1"+32.40
2.42'RT

"BR1"+61.94
3.23'RT

RL RAMP "BR1"

HINGE POINT LINE

DITCH FLOW LINE

WISDOT
FIBER OPTIC

EXISTING R/W

SLOPE INTERCEPT

WETLAND BOUNDARY

INSTALL NEW BEAMGUARD, CONCRETE BARRIER
(SEE CROSS SECTIONS "BURLEIGH NB ENTRANCE
RAMP, R/L "BR1"

WisDot Fiber in grading

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_32

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

2

2

EXISTING R/W
DITCH FLOW LINE
SLOPE INTERCEPT
WETLAND BOUNDARY
SIGN
CBS
B AGO2 SCM
+50.60 69.78 LT
+93.32 66.18 LT
RECONSTRUCT AT EXISTING SHOULDER
10'
12'
12'
12'
17'
15'
12'
12'
12'
A
187 188 189 190 191 192
12"BRJ"
13"BRJ"
14"BRJ"
15"BRJ"
16"BRJ"
17"BRJ"
18"BRJ"
12"BRJ1"
13"BRJ1"
14"BRJ1"
15"BRJ1"
"BRJ1"+86.45 0.00'
"BRJ1"+95.50 2.42'RT
"BRJ1"+32.40 2.42'RT
"BRJ1"+61.94 3.23'RT
WISDOT ELECTRIC
SLOPE INTERCEPT
WISDOT FIBER OPTIC
WETLAND BOUNDARY
EXISTING R/W
WATER TOWER

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_33

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021202-PD.DWG
LAYOUT NAME - 021204-pd
PLOT DATE : 10/14/2021 5:04 PM
PLOT BY : SCHUMACHER, JAMES D
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

2

WisDot Fiber in grading and new lane

EXISTING R/W

N

NEW SIGN STRUCTURE
S-40-3087
STA. 195+50

SLOPE INTERCEPT

WISDOT
FIBER OPTIC

DITCH FLOW LINE

WETLAND BOUNDARY

CBS

+93.32
-66.18' LT

RECONSTRUCT AT
EXISTING SHOULDER

+14.79
-53.74' LT

RECONSTRUCT AT
OUTSIDE LANE 3

RECONSTRUCT AT
EXISTING SHOULDER

B AGO2 SCM 10'
B AGO2 SCM 12'
A 12'
A 12'
A 12'
A 16'
A 15'
A 12'
A 12'
A 12'
A 12'
A 11'

192 193 194 195 196 197

18"BRJ" 19"BRJ" 20"BRJ"

END CONSTRUCTION RAMP "BRJ"
STA 20+68.89 "BRJ"

WETLAND BOUNDARY

NEW SIGN STRUCTURE
S-40-3084
STA. 196+60

EXISTING R/W

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_34

2

2

EXISTING R/W

DITCH FLOW LINE

WisDot Fiber in grading and lane

WETLAND BOUNDARY

SLOPE INTERCEPT

WisDot Fiber in grading and lane

WISDOT FIBER OPTIC

CBS

B AGO2 SCM

B AGO2 SCM

A

A

A

A

A

A

A

A

A

SB IH 41

NB IH 41

RECONSTRUCT AT EXISTING SHOULDER

NEW SIGN STRUCTURE S-40-3060 STA. 201+25

REMOVE EXISTING SIGN STRUCTURE S-40-237

+54.34, 0.00'

198

199

200

201

202

203

10'

12'

12'

12'

12'

15'

13'

12'

12'

12'

12'

12'

11'

10'

12'

12'

12'

12'

12'

CONCRETE BARRIER TRANSITION. CONSTRUCTION DETAIL TO BE ADDED ONCE SIGN STRUCTURE DESIGN IS FINALIZED.

WISDOT ELECTRIC

WISDOT ELECTRIC

WETLAND BOUNDARY

EXISTING R/W

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET PRE_35 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021202-PD.DWG
LAYOUT NAME - 021206-pd

PLOT DATE : 10/14/2021 5:06 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

EXISTING R/W

WETLAND BOUNDARY

WISDOT
FIBER OPTIC

SLOPE INTERCEPT

WisDot Fiber grading

SIGN

CBS

EXISTING JOINT LINE

PROPOSED PAVEMENT MARKING

RECONSTRUCT AT
EXISTING SHOULDER

B AGO2 SCM

A

10'
12'
12'
12'
12'
11'
8'
11'
12'
11'
4'

+78.91
9.77 LT

+80.09
9.98 RT

+95.62
45.89 RT

203 204 205 206 207 208

INL

SS

W

WISDOT
ELECTRIC

WETLAND BOUNDARY

EXISTING R/W

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_36

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021202-PD.DWG
LAYOUT NAME - 021207-pd

PLOT DATE : 10/14/2021 5:07 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

EXISTING R/W

WETLAND BOUNDARY

WISDOT
FIBER OPTIC

SLOPE INTERCEPT

SIGN

CBS

+31.57
55.86 LT

B-40-358

UNION PACIFIC RAILROAD

SLOPE INTERCEPT

CBS

8"
11'
12'
11'
11'
4'

B AGO2 SCM
A
A
A
208
209
210
211
212
213

Sprint Fiber in possible
conflict with new bridge pier

CBS

+79.65
9.79 RT

B-40-359

SPRINT
FIBER OPTIC

WE-Energies Overhead
possible conflict with Bridge
construction

CBS

+06.57
1.83 RT

+35.06
68.83 RT

HIGH FRICTION SURFACE TREATMENT
(APPLIED TO TRAVEL LANES AND 3' OF
BOTH INSIDE AND OUTSIDE SHOULDER)

SLOPE INTERCEPT

SLOPE INTERCEPT

WE ENERGIES -
ELECTRIC

EXISTING R/W

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.
2. FOR THE APPROACH SLABS FOLLOW SDD "CONCRETE PAVEMENT APPROACH SLABS".

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_37

2

EXISTING R/W

WETLAND BOUNDARY

THE DITCH BETWEEN 218+35 AND 223+60 WILL BE RE-GRADED TO IMPROVE DRAINAGE. THE SIDESLOPES WILL BE IMPROVED AT THE EXTENT POSSIBLE WITHIN THE EXISTING RIGHT OF WAY.

(SEE CROSS SECTIONS "AUXILIARY LANE - BURLEIGH ST TO CAPITOL DR"

218+35 BEGIN DITCH REGRADING

WISDOT FIBER OPTIC

WisDot Fiber in grading

N

NEW SIGN STRUCTURE
S-40-3086
STA. 219+00

SLOPE INTERCEPT

HINGE POINT LINE

CBS

+82.92 56.39'LT

BG16

+22.32 57.26'LT

BG15

B AGO2 SCM

A

RECONSTRUCT AT EXISTING SHOULDER

SB IH 41

NB IH 41

213 214 215 216 217 218 219

8" 11' 12' 11' 11' 6"

12' 12' 12' 10'

+06.57 1.83'RT

+23.32 66.69'RT

+01.22 62.77'RT

HIGH FRICTION SURFACE TREATMENT
(APPLIED TO TRAVEL LANES AND 3' OF BOTH INSIDE AND OUTSIDE SHOULDER)

SLOPE INTERCEPT

EXISTING R/W

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_38

2

2

218+35 BEGIN DITCH REGRADING

219+90 BEGIN NEW FENCE

EXISTING R/W

THE DITCH BETWEEN 218+35 AND 223+60 WILL BE RE-GRADED TO IMPROVE DRAINAGE. THE SIDESLOPES WILL BE IMPROVED AT THE EXTENT POSSIBLE WITHIN THE EXISTING RIGHT OF WAY.

(SEE CROSS SECTIONS "AUXILIARY LANE - BURLEIGH ST TO CAPITOL DR"

REPLACE EXISTING FENCE

223+60 END DITCH REGRADING END NEW FENCE

WETLAND BOUNDARY

WisDot Fiber in grading

SLOPE INTERCEPT

DITCH FLOW LINE

NEW SIGN STRUCTURE
S-40-3086
STA. 219+00

HINGE POINT LINE

BG15

+30.17
-63.63 LT

BG17

+83.22
-66.39 LT

WISDOT FTMS

WISDOT FIBER OPTIC

WISDOT ELECTRIC

B AG02 SCM

9"

11'

12'

11'

11'

A

A

A

RECONSTRUCT AT OUTSIDE LANE 3

+27.01
45.48 LT

RECONSTRUCT AT EXISTING SHOULDER

+29.41
-9.85 LT

219

220

221

222

223

224

B AG02 SCM

B AG02 SCM

8"

12'

12'

12'

12'

A

A

A

A

CBS

RECONSTRUCT AT EXISTING SHOULDER

+25.50
45.31 RT

+29.41
9.55 RT

B AG02 SCM

6"

CBS

+23.32
66.69 RT

SLOPE INTERCEPT

+91.22
62.77 RT

EXISTING R/W

NEW SIGN STRUCTURE
S-40-3085
STA. 221+00

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_39

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021202-PD.DWG
LAYOUT NAME - 021210-pd

PLOT DATE : 10/14/2021 5:10 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

223+60
END DITCH
REGRADING
END NEW
FENCE

EXISTING R/W

WETLAND BOUNDARY

AT&T WI

WE ENERGIES
GAS

WISDOT LIGHTING

WISDOT FTMS

WISDOT ELECTRIC

WISDOT
FIBER OPTIC

WISDOT
ELECTRIC

CAPITOL SB ENTRANCE RAMP

CAPITOL NB EXIT RAMP

EXISTING R/W

WISDOT LIGHTING

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_40

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021202-PD.DWG
LAYOUT NAME - 021211-pd

PLOT DATE : 10/14/2021 5:11 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

CITY OF WAUWATOSA WATER

EXISTING R/W

AT&T WI

WE ENERGIES GAS

WISDOT LIGHTING

WISDOT FTMS

WISDOT ELECTRIC

CAPITOL DR FRONTAGE RD 1

22"CF1"

EB CAPITOL DR

WB CAPITOL DR

120"CA"

CAPITOL DR FRONTAGE RD 2

18"CF2"

N

WISDOT SIGNALS

B-40-331

SEE BRIDGE PLANS FOR PARAPET REMOVAL DETAILS

WISDOT LIGHTING

WE ENERGIES GAS

B-40-333

19"CF2"

23"CF1"

8'
12'
12'
12'
9'
8'
12'
12'
7'

SB IH 41

NB IH 41

A

229

230

231

232

233

234

235

WISDOT LIGHTING

121"CA"

EXISTING APPROACH SLABS TO REMAIN

24"CF1"

20"CF2"

B-40-334

AT&T WI

SEE BRIDGE PLANS FOR PARAPET REMOVAL DETAILS

122"CA"

35"CD"

B-40-332

BEGIN CONSTRUCTION RAMP "CD"
STA 34+44.88 "CD"

WISDOT LIGHTING

SIGN L

EXISTING R/W

WE ENERGIES GAS

25"CF1"

21"CF2"

WISDOT LIGHTING

123"CA"

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.
2. FOR THE APPROACH SLABS FOLLOW SDD "CONCRETE PAVEMENT APPROACH SLABS".

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_41

2

CAPITOL DR FRONTAGE RD 1

EB CAPITOL DR

WB CAPITOL DR

CAPITOL DR FRONTAGE RD 2

HARLEY ACCESS RD

18"CF1"

19"CF1"

20"CF1"

21"CF1"

15"CA"

116"CA"

117"CA"

118"CA"

14"CF2"

15"CF2"

16"CF2"

17"CF2"

WISDOT LIGHTING

WISDOT LIGHTING

WISDOT LIGHTING

WISDOT FTMS

WE ENERGIES ELECTRIC

WE ENERGIES ELECTRIC

WE ENERGIES GAS

AT&T WI

CITY OF WAUWATOSA WATER

EXISTING R/W

EXISTING R/W

B-40-330

SEE BRIDGE PLANS FOR PARAPET REMOVAL DETAILS

ASPHALT

N

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.
2. FOR THE APPROACH SLABS FOLLOW SDD "CONCRETE PAVEMENT APPROACH SLABS".

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_42

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021202-PD.DWG
LAYOUT NAME - 021213-pd

PLOT DATE : 10/14/2021 5:12 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

EXISTING R/W

WISDOT LIGHTING

WISDOT FTMS

WISDOT ELECTRIC

HIGH FRICTION SURFACE TREATMENT
(APPLIED TO TRAVEL LANES AND 3' OF
BOTH INSIDE AND OUTSIDE SHOULDER)

CAPITOL DR FRONTAGE RD 2

18"CF2"

19"CF2"

20"CF2"

21"CF2"

WE ENERGIES
GAS

CITY OF WAUWATOSA
WATER

CAPITOL SB EXIT RAMP

12'

12'

12'

9'

9'

12'

12'

12'

235

236

237

238

239

240

+31.12
0.00'

+41.12
0.00'

+45.00
0.00'

+54.99
0.00'

+33.99
0.00'

+22.45
46.14' RT

35"CD"

36"CD"

37"CD"

38"CD"

39"CD"

40"CD"

CAPITOL NB ENTRANCE RAMP

AT&T WI

WE ENERGIES
ELECTRIC

EXISTING R/W

WISDOT ELECTRIC

WISDOT LIGHTING

WISDOT FTMS

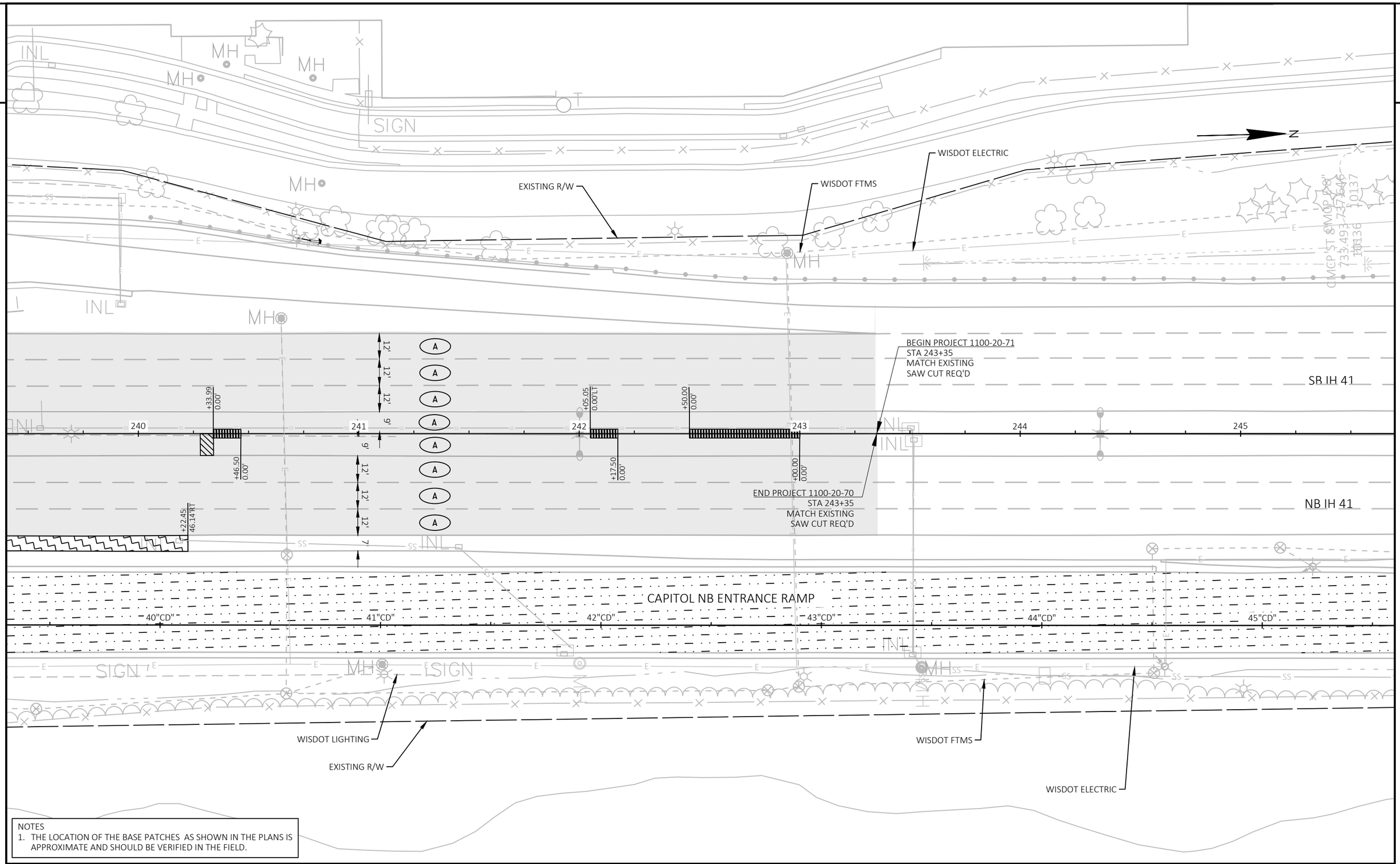
NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.
2. FOR THE APPROACH SLABS FOLLOW SDD "CONCRETE PAVEMENT APPROACH SLABS".

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_43

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021202-PD.DWG
LAYOUT NAME - 021214-pd
PLOT DATE : 10/14/2021 5:13 PM
PLOT BY : SCHUMACHER, JAMES D
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_44

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_021202-PD.DWG
LAYOUT NAME - 021215-pd
PLOT DATE : 10/14/2021 5:14 PM
PLOT BY : SCHUMACHER, JAMES D
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

2

EXISTING R/W

SB IH 41

USH 45

INLET PROTECTION TYPE D

170

169

168

INLET PROTECTION TYPE D

167

NB IH 41

USH 45

BEGIN PROJECT
STA 165+53.32
X = 566,856.73
Y = 311,394.33

166

165

ISIGN

LEGEND

- INLET PROTECTION
- SEED AND MULCH
- EROSION MAT CLASS I TYPE B
- DITCH CHECK
- SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_45

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022000-ec

PLOT DATE : 9/30/2021 2:14 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

EXISTING R/W

BURLEIGH SB ENTRANCE RAMP

INLET PROTECTION TYPE D

INL

SIGN

SB IH 41

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

171

172

173

174

175

176

INL

INL

INL

NB IH 41

45

SIGN

BURLEIGH NB EXIT RAMP

INL

SIGN

SIGN

LEGEND

INLET PROTECTION

SEED AND MULCH

EROSION MAT CLASS I TYPE B

DITCH CHECK

SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_46

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022001-ec

PLOT DATE : 9/30/2021 2:15 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : ##########

2

2

INL

INL

INL

INL

SIGN

MH

INL

196'BR"

EB BURLEIGH ST

WB BURLEIGH ST

N

B-40-356

197'BR"

W

SB IH 41

INLET PROTECTION TYPE D

176

177

178

179

180

181

182

NB IH 41

198'BR"

W

SIGN

EL

B-40-357

W

MH

MH

199'BR"

INLET PROTECTION TYPE D

MH

MH

INL

INL

INL

INL

INL

INL

LEGEND

INLET PROTECTION

SEED AND MULCH

EROSION MAT CLASS I TYPE B

DITCH CHECK

SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_47

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022002-ec

PLOT DATE : 9/30/2021 2:16 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

INLET PROTECTION

SEED AND MULCH

EROSION MAT CLASS I TYPE B

DITCH CHECK

SILT FENCE

BURLEIGH SB EXIT RAMP

SLOPE INTERCEPT

N

B-40-356

SB IH 41

81 182 183 184 185 186 187

INLET PROTECTION TYPE D

NB IH 41

INLET PROTECTION TYPE D

B-40-357

INLET PROTECTION TYPE D

BURLEIGH NB ENTRANCE RAMP

12"BRJ"

11"BRJ"

12"BRJ1"

10"BRJ"

11"BRJ1"

9"BRJ"

10"BRJ1"

8"BRJ"

9"BRJ1"

SLOPE INTERCEPT

WETLAND BOUNDARY

DITCH FLOW LINE

EXISTING R/W

7"BRJ"

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_48

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022003-ec

PLOT DATE : 9/30/2021 2:17 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

INL

INLET PROTECTION TYPE D

EXISTING R/W

DITCH FLOW LINE

SLOPE INTERCEPT

WETLAND BOUNDARY

MH

SIGN

INLET PROTECTION TYPE D

SB IH 41

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

187

188

189

190

191

192

W

MH

NB IH 41

12"BRJ"

12"BRJ1"

13"BRJ"

13"BRJ1"

14"BRJ"

14"BRJ1"

15"BRJ"

15"BRJ1"

16"BRJ"

17"BRJ"

18"BRJ"

INLET PROTECTION TYPE D

WETLAND BOUNDARY

SLOPE INTERCEPT

EXISTING R/W

WATER TOWER

LEGEND

INLET PROTECTION

SEED AND MULCH

EROSION MAT CLASS I TYPE B

DITCH CHECK

SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_49

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022004-ec

PLOT DATE : 9/30/2021 2:18 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

EXISTING R/W

SLOPE INTERCEPT

DITCH FLOW LINE

WETLAND BOUNDARY

SB IH 41

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

192

193

194

195

196

197

NB IH 41

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

18"BRJ"

19"BRJ"

20"BRJ"

WETLAND BOUNDARY

EXISTING R/W

LEGEND

INLET PROTECTION

SEED AND MULCH

EROSION MAT CLASS I TYPE B

DITCH CHECK

SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_50

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022005-ec

PLOT DATE : 9/30/2021 2:19 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

EXISTING R/W

SLOPE INTERCEPT

N

WETLAND BOUNDARY

DITCH FLOW LINE

INLET PROTECTION TYPE D

SB IH 41

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

198

199

200

201

202

203

INLET PROTECTION TYPE D

NB IH 41

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

WETLAND BOUNDARY

EXISTING R/W

LEGEND

INLET PROTECTION

SEED AND MULCH

EROSION MAT CLASS I TYPE B

DITCH CHECK

SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_51

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022006-ec

PLOT DATE : 9/30/2021 2:20 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

EXISTING R/W

WETLAND BOUNDARY

N

SLOPE INTERCEPT

MH

MH

SIGN

SB IH 41

203

204

205

INL

206

207

208

INLET PROTECTION TYPE D

NB IH 41

INLET PROTECTION TYPE D

INL

INL

W

W

W

WETLAND BOUNDARY

SLOPE INTERCEPT

WETLAND BOUNDARY

LEGEND

- INLET PROTECTION
- SEED AND MULCH
- EROSION MAT CLASS I TYPE B
- DITCH CHECK
- SILT FENCE

EXISTING R/W

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_52

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022007-ec

PLOT DATE : 9/30/2021 2:21 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- INLET PROTECTION
- SEED AND MULCH
- EROSION MAT CLASS I TYPE B
- DITCH CHECK
- SILT FENCE

WETLAND BOUNDARY

EXISTING R/W

N

SLOPE INTERCEPT

SIGN

B-40-358

UNION PACIFIC RAILROAD

SLOPE INTERCEPT

208

209

210

211

212

213

B-40-359

SLOPE INTERCEPT

SLOPE INTERCEPT

EXISTING R/W

2

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_53

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022008-ec

PLOT DATE : 9/30/2021 2:22 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- INLET PROTECTION
- SEED AND MULCH
- EROSION MAT CLASS I TYPE B
- DITCH CHECK
- SILT FENCE

EXISTING R/W

WETLAND BOUNDARY

N

SLOPE INTERCEPT

SIGN

INLET PROTECTION TYPE D

SB IH 41

INLET PROTECTION TYPE D

213

214

215

216

217

218

219

INL

NB IH 41

SIGN

SLOPE INTERCEPT

EXISTING R/W

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_54

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022009-ec

PLOT DATE : 9/30/2021 2:23 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

WETLAND BOUNDARY

SLOPE INTERCEPT

EXISTING R/W

DITCH FLOW LINE

N

INLET PROTECTION TYPE D

SB IH 41

219 220 221 222 223 224

NB IH 41

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

SLOPE INTERCEPT

EXISTING R/W

LEGEND

- INLET PROTECTION
- SEED AND MULCH
- EROSION MAT CLASS I TYPE B
- DITCH CHECK
- SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_55

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022010-ec

PLOT DATE : 9/30/2021 2:24 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

WETLAND BOUNDARY

INLET PROTECTION TYPE D

CAPITOL SB ENTRANCE RAMP

SB IH 41

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

224 225 226 227 228 229

INLET PROTECTION TYPE D

NB IH 41

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

CAPITOL NB EXIT RAMP

EXISTING R/W

LEGEND

- INLET PROTECTION
- SEED AND MULCH
- EROSION MAT CLASS I TYPE B
- DITCH CHECK
- SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_56

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022011-ec

PLOT DATE : 9/30/2021 2:25 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

INLET PROTECTION TYPE D

EXISTING R/W

CAPITOL DR FRONTAGE RD 1

22"CF1"

EB CAPITOL DR

WB CAPITOL DR

120"CA"

CAPITOL DR FRONTAGE RD 2

18"CF2"

INLET PROTECTION TYPE D

B-40-331

INLET PROTECTION TYPE D

B-40-333

19"CF2"

23"CF1"

SB IH 41

229 230 231 232 233 234 235

121"CA"

NB IH 41

24"CF1"

20"CF2"

B-40-334

INLET PROTECTION TYPE D

B-40-332

122"CA"

35"CD"

INLET PROTECTION TYPE D

25"CF1"

21"CF2"

123"CA"

EXISTING R/W

LEGEND

INLET PROTECTION

SEED AND MULCH

EROSION MAT CLASS I TYPE B

DITCH CHECK

SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_57

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022012-ec

PLOT DATE : 9/30/2021 2:26 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

CAPITOL DR FRONTAGE RD 1

EB CAPITOL DR

WB CAPITOL DR

CAPITOL DR FRONTAGE RD 2

HARLEY ACCESS RD

B-40-330

INLET PROTECTION TYPE D

EXISTING R/W

EXISTING R/W

N

LEGEND

- INLET PROTECTION
- SEED AND MULCH
- EROSION MAT CLASS I TYPE B
- DITCH CHECK
- SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_58

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022013-ec

PLOT DATE : 9/30/2021 2:27 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

INLET PROTECTION TYPE D

CAPITOL DR FRONTAGE RD 2

18"CF2"

19"CF2"

20"CF2"

21"CF2"

EXISTING R/W

INLET PROTECTION TYPE D

CAPITOL SB EXIT RAMP

INLET PROTECTION TYPE D

SB IH 41

INLET PROTECTION TYPE D

235 236 237 238 239 240

NB IH 41

INLET PROTECTION TYPE D

CAPITOL NB ENTRANCE RAMP

35"CD" 36"CD" 37"CD" 38"CD" 39"CD" 40"CD"

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

EXISTING R/W

LEGEND

- INLET PROTECTION
- SEED AND MULCH
- EROSION MAT CLASS I TYPE B
- DITCH CHECK
- SILT FENCE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

PRE_59

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022014-ec

PLOT DATE : 9/30/2021 2:28 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

INLET PROTECTION

SEED AND MULCH

EROSION MAT CLASS I TYPE B

DITCH CHECK

SILT FENCE

N

EXISTING R/W

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

SB IH 41

240 241 242 243 244 245

END PROJECT
STA 243+34.77
X = 566,269.58
Y = 318,939.49

NB IH 41

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

CAPITOL NB ENTRANCE RAMP

40"CD" 41"CD" 42"CD" 43"CD" 44"CD" 45"CD"

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

EXISTING R/W

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET E

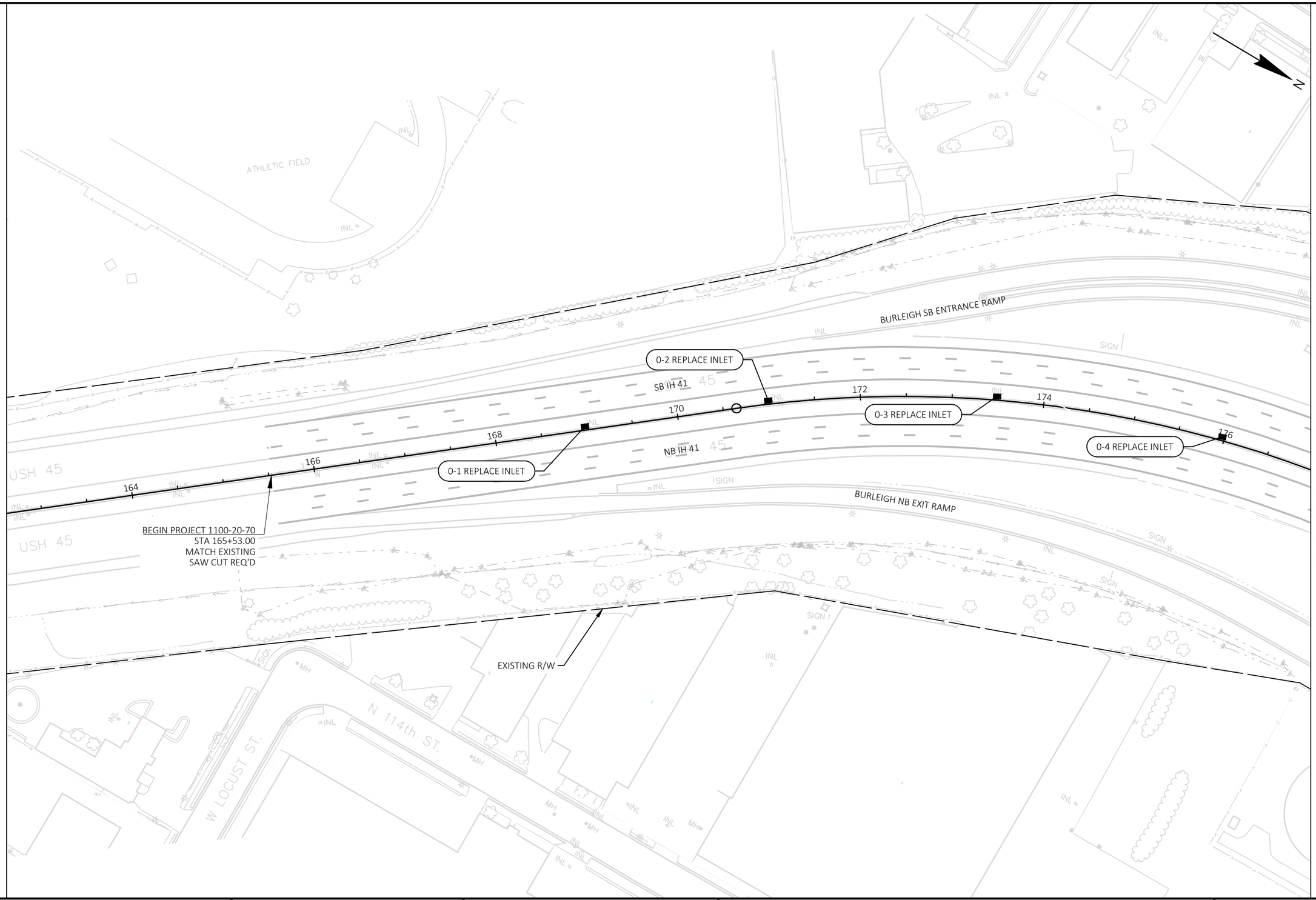
PRE_60

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_022001-EC.DWG
LAYOUT NAME - 022015-ec

PLOT DATE : 9/30/2021 2:29 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



MATCHLINE: STA. 177+00.00

2

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER PLAN	SHEET E

PRE_61

FILE NAME : I:\79555\C3D\1100-20-00\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - _001

PLOT DATE : 10/7/2021 11:26 AM PLOT BY : ANDY LUEHMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE: STA. 177+00.00

MATCHLINE: STA. 190+00.00

N

EB BURLEIGH ST

WB BURLEIGH ST

EXISTING R/W

BURLEIGH SB EXIT RAMP

SLOPE INTERCEPT

2-2 REPLACE INLET

2-5 REPLACE INLET

2-7 REPLACE INLET

SB IH 41

2-3 REPLACE INLET

NB IH 41

2-4 REPLACE INLET

2-6 REPLACE INLET

ADJUSTING INLET

2-1

BURLEIGH NB ENTRANCE RAMP

10BRJ

12BRJ

14BRJ

R/L RAMP "BRJ"

3-25

SLOPE INTERCEPT

178 180 182 184 186 188

12" 15"

WATER TOWER

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER PLAN	SHEET E

FILE NAME : I:\79555\C3D\1100-20-00\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - _002
PLOT DATE : 10/7/2021 11:27 AM
PLOT BY : ANDY LUEHMANN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

PROPOSED RIPRAP CHECK DAM
TYP. 8 THIS SHEET

SLOPE INTERCEPT

EXISTING R/W

CONNECT TO EXISTING
STORM SEWER

BULKHEAD EXISTING PIPE

CONNECT TO EXISTING STORM SEWER

2-12

2-11

2-13

2-14 REPLACE INLET

2-15 REPLACE INLET

2-16 REPLACE INLET

2-18 REPLACE INLET

SB IH 41

2-19 REPLACE INLET

2-21 REPLACE INLET

2-23

NB IH 41

2-10 REPLACE INLET

2-9 REPLACE INLET

2-8 REPLACE INLET

2-20 REPLACE INLET

2-24 REPLACE INLET

2-22 REPLACE INLET

2-17 REPLACE INLET

2-25

2-26 REPLACE INLET

2-27

2-28

2-29

CONNECT TO EXISTING
STORM SEWER

EXISTING R/W

SLOPE INTERCEPT

192

194

196

198

200

202

204

MATCHLINE: STA. 190+00.00

MATCHLINE: STA. 205+00.00

WATER TOWER

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER PLAN	SHEET E

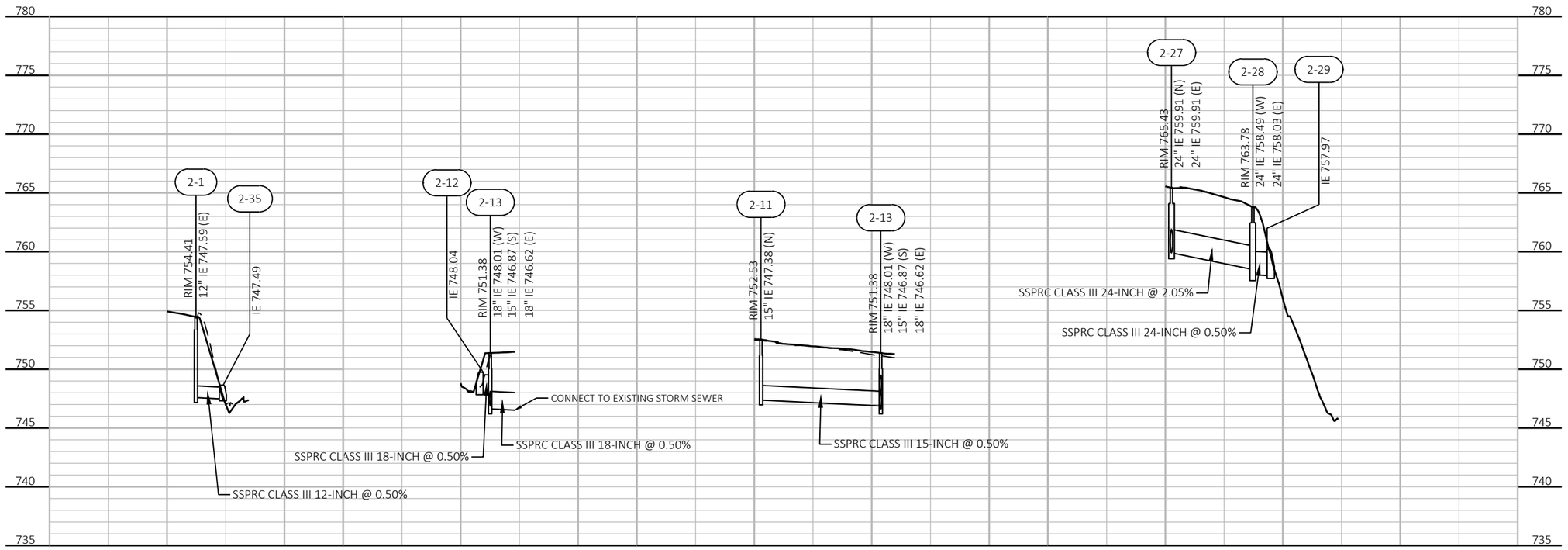
PRE_63

FILE NAME : I:\79555\C3D\1100-20-00\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - _003

PLOT DATE : 10/7/2021 11:28 AM PLOT BY : ANDY LUEHMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER PROFILE	SHEET E

PRE_64

FILE NAME : I:\79555\C3D\1100-20-00\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - _003(1)

PLOT DATE : 10/7/2021 11:28 AM PLOT BY : ANDY LUEHMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

MATCHLINE: STA. 205+00.00

MATCHLINE: STA. 219+00.00

N

EXISTING R/W

REPLACE 42-INCH ENDWALL

SLOPE INTERCEPT

SLOPE INTERCEPT

SLOPE INTERCEPT

SLOPE INTERCEPT

EXISTING R/W

2-30

2-31

2-32

2-33

2-34

3-1

3-2

4-1

4-2

4-3

4-4

4-5

4-6

4-7

4-8

4-19

SB IH 41

NB IH 41

WATER TOWER

GOLF COURSE

UNION PACIFIC

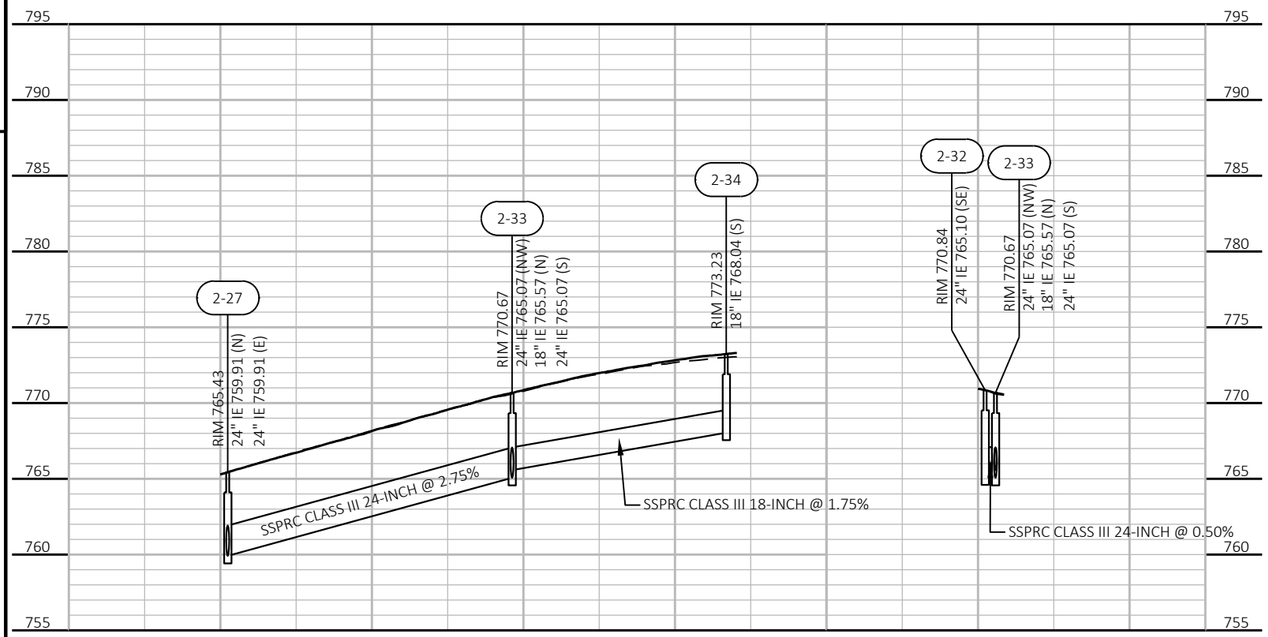
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER PLAN	SHEET E

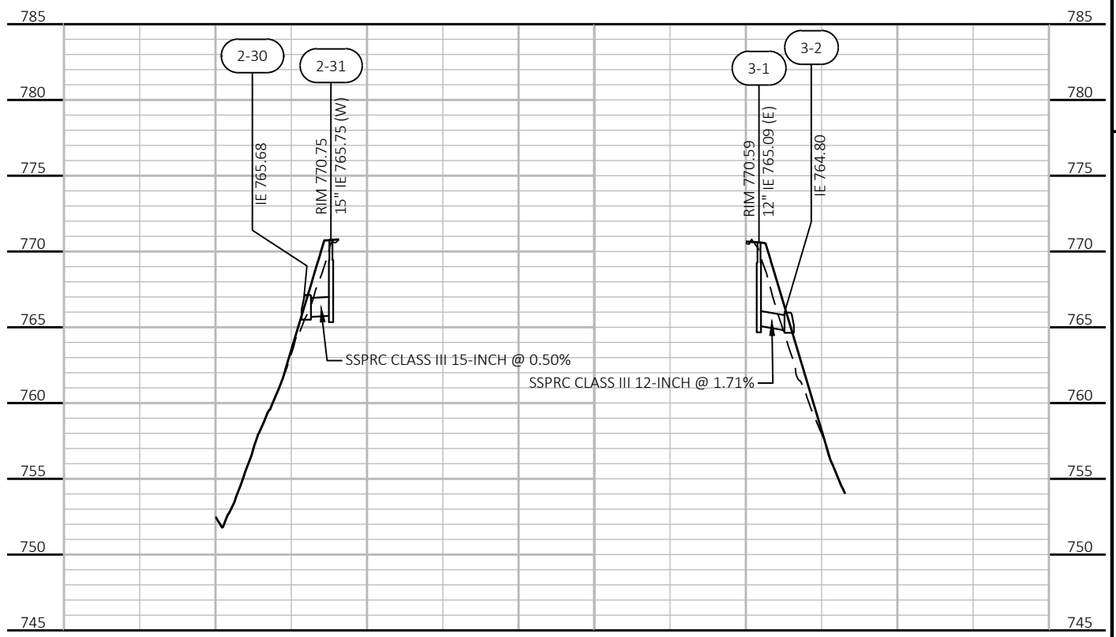
PRE_65

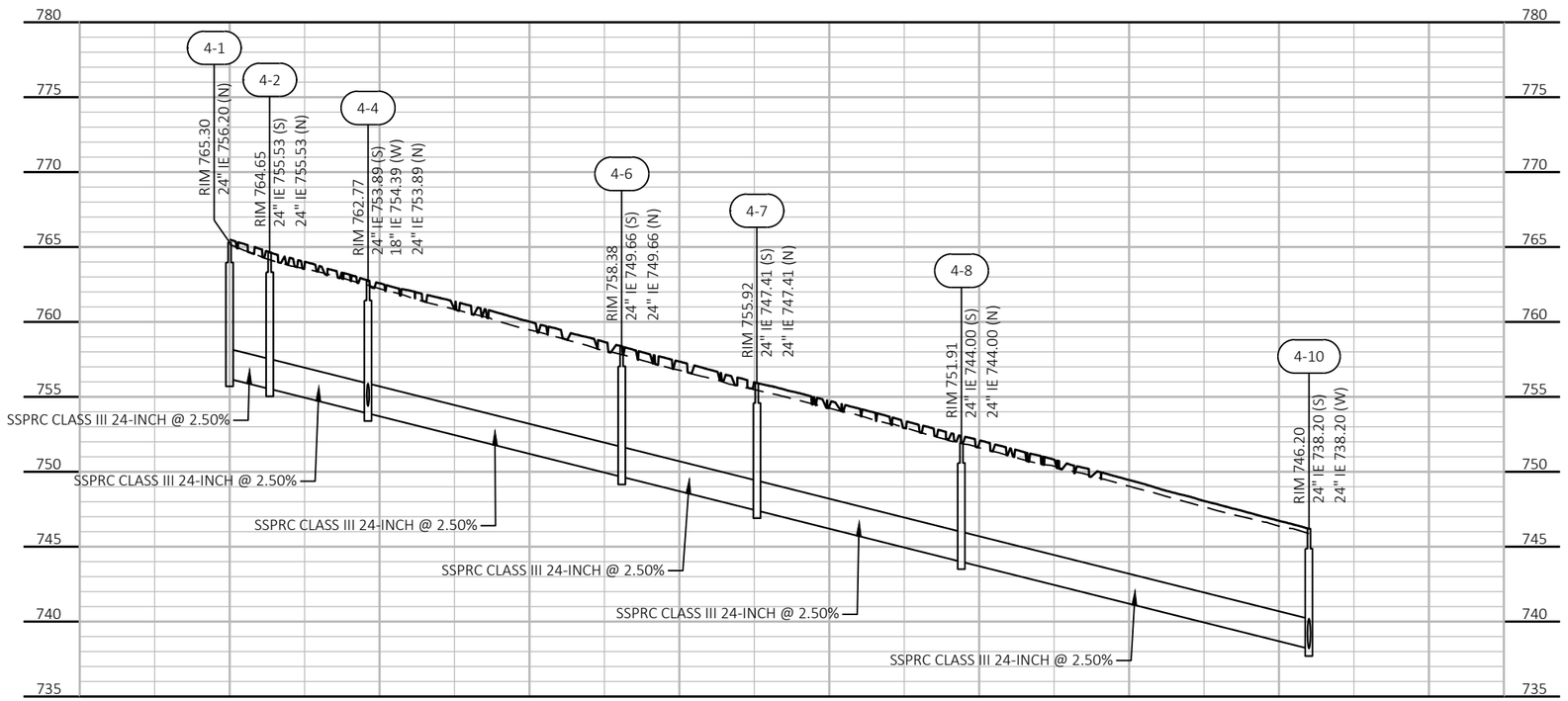
FILE NAME : I:\79555\C3D\1100-20-00\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - _004

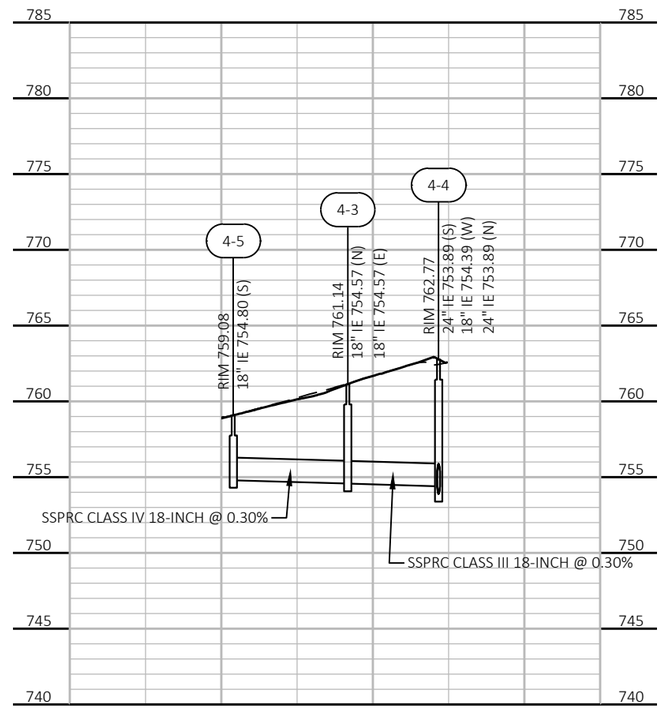
PLOT DATE : 10/7/2021 11:29 AM PLOT BY : ANDY LUEHMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42









PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER PROFILE	SHEET E

PRE_66

FILE NAME : I:\79555\C3D\1100-20-00\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - _004(1)

PLOT DATE : 10/7/2021 11:30 AM PLOT BY : ANDY LUEHMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

MATCHLINE: STA. 219+00.00

MATCHLINE: STA. 232+00.00

N

EXISTING R/W

4-9

4-10

4-11

4-12

CONNECT TO EXISTING
STORM SEWER

4-13 REPLACE INLET

4-14 REPLACE INLET

4-15 REPLACE INLET

4-16 REPLACE INLET

4-17 REPLACE INLET

4-18 REPLACE INLET

CAPITOL SB ENTRANCE RAMP

SB IH 41

C/L IH 41

NB IH 41

CAPITOL NB EXIT RAMP

EXISTING R/W

GOLF
GREEN

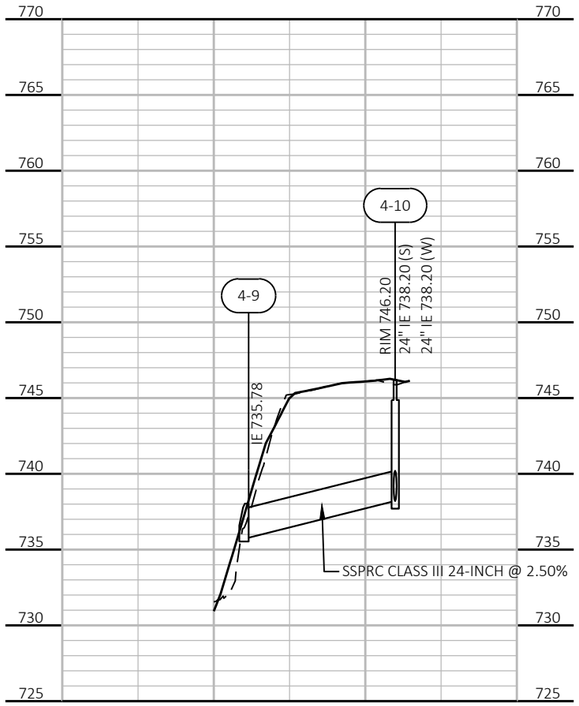
220 222 224 226 228 230

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER PLAN	SHEET E

PRE_67

FILE NAME : I:\79555\C3D\1100-20-00\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - _005

PLOT DATE : 10/7/2021 11:31 AM PLOT BY : ANDY LUEHMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT



2

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER PROFILE	SHEET E

PRE_68

FILE NAME : I:\79555\C3D\1100-20-00\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - _005(1)
PLOT DATE : 10/7/2021 11:32 AM
PLOT BY : ANDY LUEHMANN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

MATCHLINE: STA. 232+00.00

CAPITOL FRONTAGE RD 1

EB CAPITOL DR

WB CAPITOL DR

CAPITOL FRONTAGE RD 2

BEGIN PROJECT 1100-20-71
STA 243+34.77
MATCH EXISTING
SAW CUT REQ'D

12"CB"

14"CB"

16"CB"

18"CB"

20"CB"

22"CB"

10"CB"

CAPITOL SB EXIT RAMP

R/L CB

SB IH 41

244"AUX"

246"AUX"

R/L AUX

236

238

240

242

244

246

234

5-1 REPLACE INLET

NB IH 41

5-2 REPLACE INLET

C/L IH 41

CAPITOL NB ENTRANCE RAMP

END PROJECT 1100-20-70
STA 243+34.77
MATCH EXISTING
SAW CUT REQ'D

EXISTING R/W

EXISTING R/W

EB CAPITOL DR

WB CAPITOL DR

CEMETERY

N

2

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER PLAN	SHEET E

PRE_69

FILE NAME : I:\79555\C3D\1100-20-00\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - _006

PLOT DATE : 10/7/2021 11:33 AM PLOT BY : ANDY LUEHMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING LIGHT CONTROLLER

HL-40-CD	
A,C,5,7	BLACK
B,D,6,8	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	45A
5,6,7,8	30A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-HM	
A,C,E	BLACK
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C	30A
D,E,F	30A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-SL	
A,C,E	BLACK
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D,E,F	30A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-CM	
A,B,C,D	BLACK
A,B,C,D	30A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-DP	
A,C,E	RED
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,E,F	40A
C,D	30A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-BS	
A,B,C,D,E	BLACK
A,B,C,D,E	30 A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-CC	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30 A
120/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-LX	
A,C,E	RED
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D,E,F	30 A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-AP	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30 A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-WG	
A,C,E,G,J,L	RED
B,D,F,H,K,M	BLACK
N	WHITE
GND	GREEN
A,C,E,G,J,L	30 A
B,D,F,H,K,M	30 A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

W BURLEIGH ST.
W CENTER ST.
UNION PACIFIC RAILROAD
USH 45/IH 41
W CAPITOL DR.
W HAMPTON AVE.
W SILVER SPRING DR.
W CARMEN AVE.
W FLORIST AVE.
N LOVERS LANE RD.
W MILL RD.
GOOD HOPE RD.
STH 175
STH 145

1100-20-70 | 1100-20-71

PROJECT NO: 1100-20-70	HWY: IH 41/USH 45	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS OVERVIEW	SHEET E

PRE_70

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\020201-PO.DWG
LAYOUT NAME - 020201-po REMOVAL

PLOT DATE : 10/15/2021 4:27 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : Custom

WISDOT/CADDS SHEET 42

2

2

N

EXISTING LIGHT CONTROLLER

HL-40-CD	
A,C,5,7	BLACK
B,D,6,8	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	45A
5,6,7,8	30A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-HM	
A,C,E	BLACK
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C	30A
D,E,F	30A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-SL	
A,C,E	BLACK
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D,E,F	30A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-CM	
A,B,C,D	BLACK
A,B,C,D	30A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-DP	
A,C,E	RED
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,E,F	40A
C,D	30A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-BS	
A,B,C,D,E	BLACK
A,B,C,D,E	30 A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-CC	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30 A
120/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-LX	
A,C,E	RED
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D,E,F	30 A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-AP	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30 A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-WG	
A,C,E,G,J,L	RED
B,D,F,H,K,M	BLACK
N	WHITE
GND	GREEN
A,C,E,G,J,L	30 A
B,D,F,H,K,M	30 A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

W BURLEIGH ST.
W CENTER ST.
UNION PACIFIC RAILROAD
USH 45/IH 41
W SILVER SPRING DR.
W CARMEN AVE.
W FLORIST AVE.
W MILL RD.
GOOD HOPE RD.
N LOVERS LANE RD.
W CAPITOL DR.
W HAMPTON AVE.
STH 175
STH 145

1100-20-70 | 1100-20-71

PROJECT NO: 1100-20-70	HWY: IH 41/USH 45	COUNTY: MILWAUKEE	LIGHTING PLANS - TEMPORARY OVERVIEW	SHEET E

PRE_71

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\020201-PO.DWG
LAYOUT NAME - 020201-po TEMPORARY
PLOT DATE : 10/15/2021 4:31 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : Custom

2

2

N

EXISTING LIGHT CONTROLLER

HL-40-CD	
A,C,5,7	BLACK
B,D,6,8	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	45A
5,6,7,8	30A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-HM	
A,C,E	BLACK
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C	30A
D,E,F	30A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-SL	
A,C,E	BLACK
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D,E,F	30A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-CM	
A,B,C,D	BLACK
A,B,C,D	30A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-DP	
A,C,E	RED
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,E,F	40A
C,D	30A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-BS	
A,B,C,D,E	BLACK
A,B,C,D,E	30 A
480VAC 2 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-CC	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30 A
120/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-LX	
A,C,E	RED
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D,E,F	30 A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-AP	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30 A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

EXISTING LIGHT CONTROLLER

HL-40-WG	
A,C,E,G,J,L	RED
B,D,F,H,K,M	BLACK
N	WHITE
GND	GREEN
A,C,E,G,J,L	30 A
B,D,F,H,K,M	30 A
240/480VAC 3 WIRE GROUNDED NEUTRAL	

W BURLEIGH ST.
W CENTER ST.
UNION PACIFIC RAILROAD
USH 45/IH 41
W SILVER SPRING DR.
W CARMEN AVE.
W FLORIST AVE.
W MILL RD.
GOOD HOPE RD.
N LOVERS LANE RD.
W CAPITOL DR.
W HAMPTON AVE.
STH 175
STH 145

1100-20-70 | 1100-20-71

PROJECT NO: 1100-20-70	HWY: IH 41/USH 45	COUNTY: MILWAUKEE	LIGHTING PLANS - PROPOSED OVERVIEW	SHEET E

PRE_72

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\020201-PO.DWG
LAYOUT NAME - 020201-po PROPOSED
PLOT DATE : 10/15/2021 4:39 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : Custom

2

GENERAL NOTES

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

LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED.

THE TRENCH SHALL NOT BE BACK FILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION 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 ALL CONDUITS.

PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX OR JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS-BUILT DRAWING FOR ALL THE WORK BEING DONE.

INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED & WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING AT THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.

ALL UNDERGROUND WIRING AND CONDUIT FOR POLES BEING REMOVED IS ABANDONED IN PLACE UNLESS NOTED OTHERWISE. CONTRACTOR MAY SALVAGE ABANDONED WIRING AT HIS OWN EXPENSE.

IF CID CONTAINS PHASE CONDUCTOR(S) THAT WILL NOT BE USED FOR FURTHER POLES, I.E. AT THE END OF A CIRCUIT, DO NOT ENERGIZE THE CONDUCTOR(S) LEAVING THE LAST POLE THE PHASE WAS UTILIZED. REMOVE EXCESS CONDUCTOR(S) IN ALL SUBSEQUENT POLES.

SEAL THE ENDS OF ALL CID RACEWAY WITH A UL RECOGNIZED CONDUIT SEALANT. PROVIDE A 1#2" NYLON ROPE EXTENDING BEYOND THE PLUG TO ASSIST IN REMOVING THE PLUG IN THE FUTURE.

SEE DETAIL "CONDUIT DETAILS AT STRUCTURE PARAPET TO ROADWAY BARRIER INTERFACE" WHEN CONDUIT EXITS TO GRADE FROM A BRIDGE PARAPET OR RETAINING WALL. RIGID METALLIC CONDUIT IN CONCRETE BARRIER IS INCIDENTAL TO THE RIGID NONMETALLIC CONDUIT.

PROVIDE MINIMUM CABLE SLACK AS NOTED BELOW:

PULL BOXES:	5-FT ONE WAY IN OR OUT
EMBEDDED JUNCTION BOXES:	3-FT
DISTRIBUTION CENTER/LOAD CENTER:	10-FT

STAGING NOTES

MAINTAIN LIGHTING AT ALL TIMES DURING CONSTRUCTION USING EXISTING LIGHTING, PROPOSED TEMPORARY, FINAL LIGHTING OR COMBINATIONS.

DO NOT REMOVE EXISTING LIGHTING UNTIL THE NEW OR TEMPORARY LIGHTING IS OPERATIONAL. REFER TO DRAWINGS FOR STAGING INFORMATION.

MAINTAINING SYSTEM CONTINUITY SHALL BE INCIDENTAL TO THE "REMOVE EXISTING STREET LIGHTS" BID ITEM.

DUE TO THE PHASING OF CONSTRUCTION SOME FINAL LIGHTING UNITS MAY BE ORPHANED UNTIL A LATER STAGE IS COMPLETE. IT IS AT THE DISCRETION OF THE CONTRACTOR TO SCHEDULE
THESE ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE PLACEMENT OF RACEWAY THAT SPANS TWO DIFFERENT PHASES OF CONSTRUCTION.

TEMPORARY OR FINAL LIGHTING MUST ILLUMINATE AN AREA BEFORE EXISTING LIGHTING UNITS IN AN AREA CAN BE REMOVED. THE SCHEDULING OF REMOVAL IS AT THE DISCRETION OF THE
CONTRACTOR WITH THE PROVISION THAT LIGHTING OF THE ROADWAY IS PROVIDED AT ALL TIMES.

COORDINATE POLE REMOVAL WITH TRAFFIC CONTROL.

LEGEND - LIGHTING REMOVALS

- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- XX — DENOTES THE REMOVAL STAGE NUMBER
- XYYZ — EXISTING SINGLE ARM FREEWAY LIGHTING UNIT
  - X - CIRCUIT
  - YY - DISTRIBUTION CENTER
  - Z - POLE/LUMINAIRE ID NUMBER
- XYYZ — EXISTING TWIN ARM FREEWAY LIGHTING UNIT
  - X - CIRCUIT
  - YY - DISTRIBUTION CENTER
  - Z - POLE/LUMINAIRE ID NUMBER
- XXYZ — EXISTING SINGLE ARM LOCAL LIGHTING UNIT
  - XX - DISTRIBUTION CENTER
  - Y - CIRCUIT (AS NOTED)
  - Z - POLE/LUMINAIRE ID NUMBER
- DISTRIBUTION CENTER
- TRANSFORMER
- ELECTRIC METER SOCKET
- EXISTING HANDHOLE
- EXISTING PULLBOX
- EXISTING UDL (UNDER DECK LIGHTING)
- PHOTOCELL
- X/Y/ZZ — HIGH MAST LIGHTS
  - HML-40-W
  - X/Y/ZZ
  - X&Y-CKT
  - ZZ-LIGHTING CABINET
  - W-ID NUMBER

LEGEND - TEMPORARY LIGHTING

- LIGHTING CONTROL CABINET
- V, W / T-XYYZ — FLOOD LIGHT ON WOOD POLE
  - V - STATION, W - OFFSET
  - T - TEMPORARY LIGHTING
  - X - CIRCUIT, YY - DISTRIBUTION CENTER,
  - Z - POLE NUMBER
- V, W / WP-XX-Y — WOOD POLE
  - V - STATION, W - OFFSET
  - WP - WOOD POLE
  - XX - DISTRIBUTION CENTER
  - Y - POLE NUMBER
- V, W / T-PB-XX-YY — PULL BOX, 24" x 36"
  - V - STATION, W - OFFSET
  - T - TEMPORARY
  - PB - PULLBOX
  - XX - DISTRIBUTION CENTER
  - YY - PULLBOX NUMBER
- EXISTING SINGLE ARM LOCAL LIGHTING UNIT
- EXISTING SINGLE ARM FREEWAY LIGHTING UNIT
- EXISTING TWIN ARM FREEWAY LIGHTING UNIT
- —OH— OVERHEAD CABLE (AERIAL ALUMINUM)
- CONDUIT, 2" UNLESS OTHERWISE NOTED
- X/Y — DENOTES THE CONSTRUCTION STAGE FOR INSTALLATION/REMOVAL
- E/Y — EXISTING TO BE REMOVED IN STAGE "Y"

LEGEND - FINAL LIGHTING

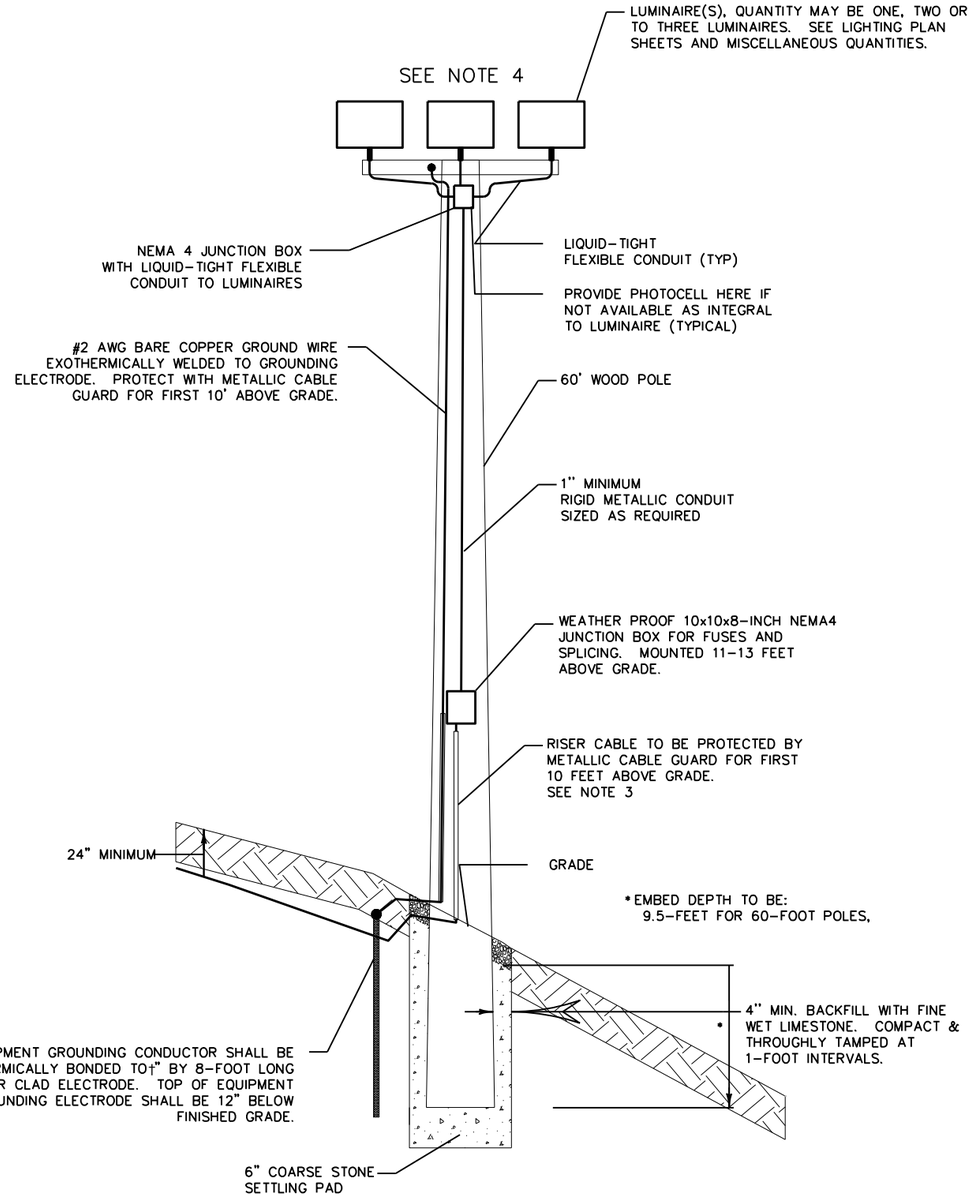
- CID (CABLE IN DUCT)
- CABLE IN CONDUIT - SIZE AS NOTED
- PROPOSED SINGLE ARM FREEWAY LIGHTING UNIT
- PROPOSED TWIN ARM FREEWAY LIGHTING UNIT
- EXISTING FREEWAY LIGHTING UNIT TO REMAIN
- LIGHTING CONTROL CABINET
- PULL BOX 24" x 36"
- PULL BOX 24" x 42"
- PROBEAM LUMINAIRE WITH BASE & ARM
  - STATION - OFFSET
  - PRO - X YY Z
    - LUMINAIRE NUMBER
    - LIGHTING CONTROL CABINET
    - CIRCUIT
    - PLAQUE SEQUENCE INDENTIFICATION
- UNDERDECK LUMINAIRE
- ELECTRIC METER SOCKET
- SM — DENOTES STRUCTURE MOUNTED
- XX — DENOTES THE CONSTRUCTION STAGE FOR INSTALLATION
- STUBOUT
- LUMINAIRE IDENTIFICATION
  - STATION - OFFSET (TWO CALLOUTS IF TWIN)
  - LED-X-X(T)-4-XYYZ
    - LUMINAIRE NUMBER
    - LIGHTING CONTROL CABINET
    - CIRCUIT
    - LUMINAIRE ARM LENGTH
    - PLAQUE SEQUENCE INDENTIFICATION
    - POLE TYPE, (T) WITH TRANSFORMER BASE BREAKAWAY
    - LUMINAIRE UTILITY CATEGORY
    - LUMINAIRE TYPE SOURCE
- X/Y/ZZ — HIGH MAST LIGHTS
  - HML-40-W
  - X/Y/ZZ
  - X&Y-CKT
  - ZZ-LIGHTING CABINET
  - W-ID NUMBER

SHEET 1 OF 1

PROJECT NO: 1100-20-70	HWY: IH 41/USH 45	COUNTY: MILWAUKEE	LIGHTING PLANS - GENERAL NOTES	SHEET PRE_73 E

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\020101_GN - 021001_CD.DWG
LAYOUT NAME - 020101_gn
PLOT DATE : 10/15/2021 4:15 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : N/A

2

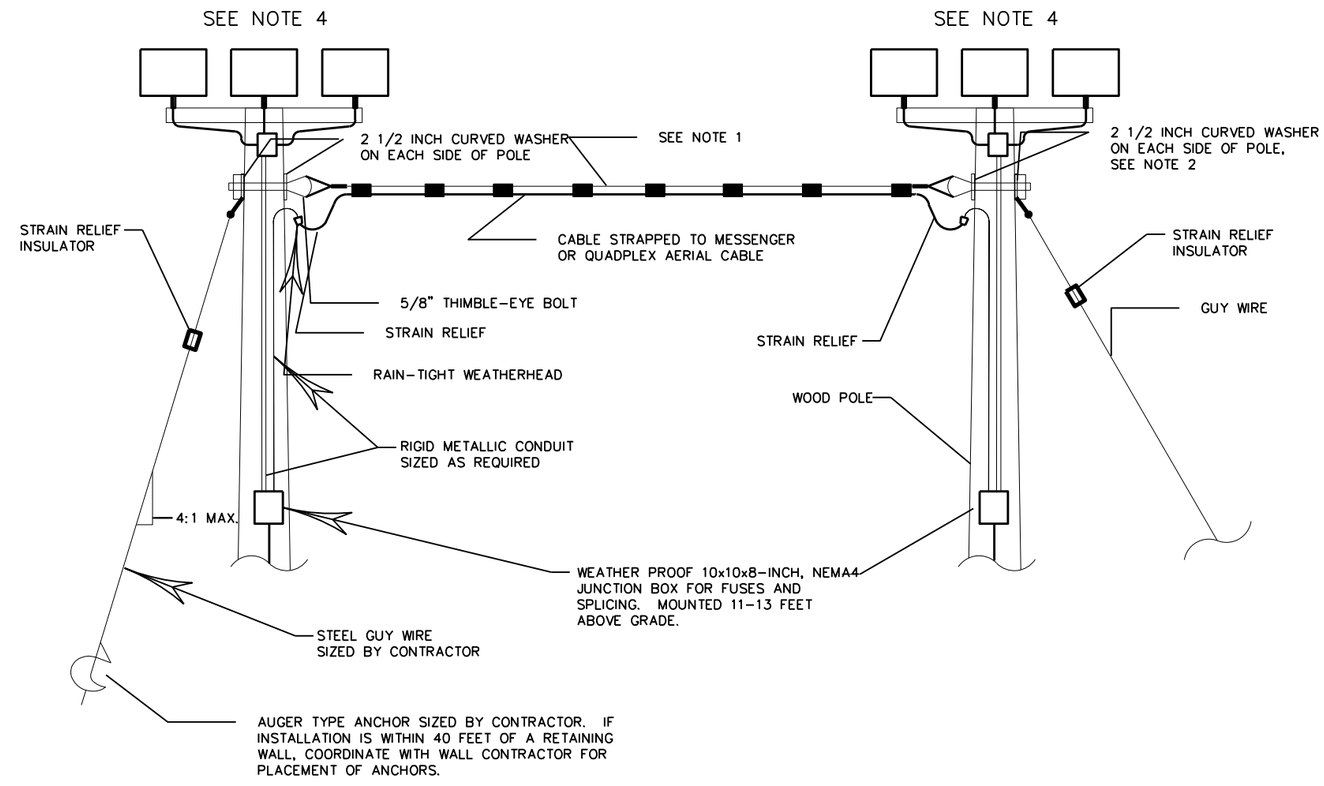


WOODEN POLE INSTALLATION DETAIL

SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
NTS

NOTES

1. MINIMUM CLEARANCE AT CENTER OF SPAN: 20-FT. ABOVE ROADWAY OR GRADE.
2. CONSTRUCT DEAD ENDS WITH SECONDARY RACK, CLEVISES, OR OTHER APPROVED METHOD.
3. SECURELY BAND OR CLAMP RISERS TO POLES. USE METALLIC CABLE GUARD TO PROTECT RISERS FOR 10-FEET ABOVE GRADE.
4. FOR CLARITY, LIGHTNING PROTECTION NOT SHOWN IN ITS ENTIRETY. PROVIDE AIR TERMINAL PROTRUDING 18" ABOVE HIGHEST FIXTURE WITH #2 AWG DOWN CONDUCTOR TO A†" X 8-FOOT COPPER CLAD ELECTRODE FOR LIGHTNING PROTECTION. DOWN CONDUCTOR MAY TRAVEL ONLY IN A DOWNWARD DIRECTION UNTIL IT IS CONNECTED TO THE GROUNDING ELECTRODE. LIGHTNING PROTECTION GROUNDING ELECTRODE TO BE BONDED TO EQUIPMENT GROUNDING ELECTRODE WITH BARE, SOLID #2 COPPER CONDUCTOR; EXOTHERMIC WELD LOWER, MECHANICAL ON UPPER END.
5. LUMINAIRES AND AERIAL CABLES ARE SEPARATE BID ITEMS AND ARE NOT PART OF THE BID ITEM "WOOD POLE LIGHTING 60-FOOT. THE REMAINING ITEMS SHOWN ARE INCIDENTAL TO BID ITEM "WOOD POLES LIGHTING 60-FOOT.



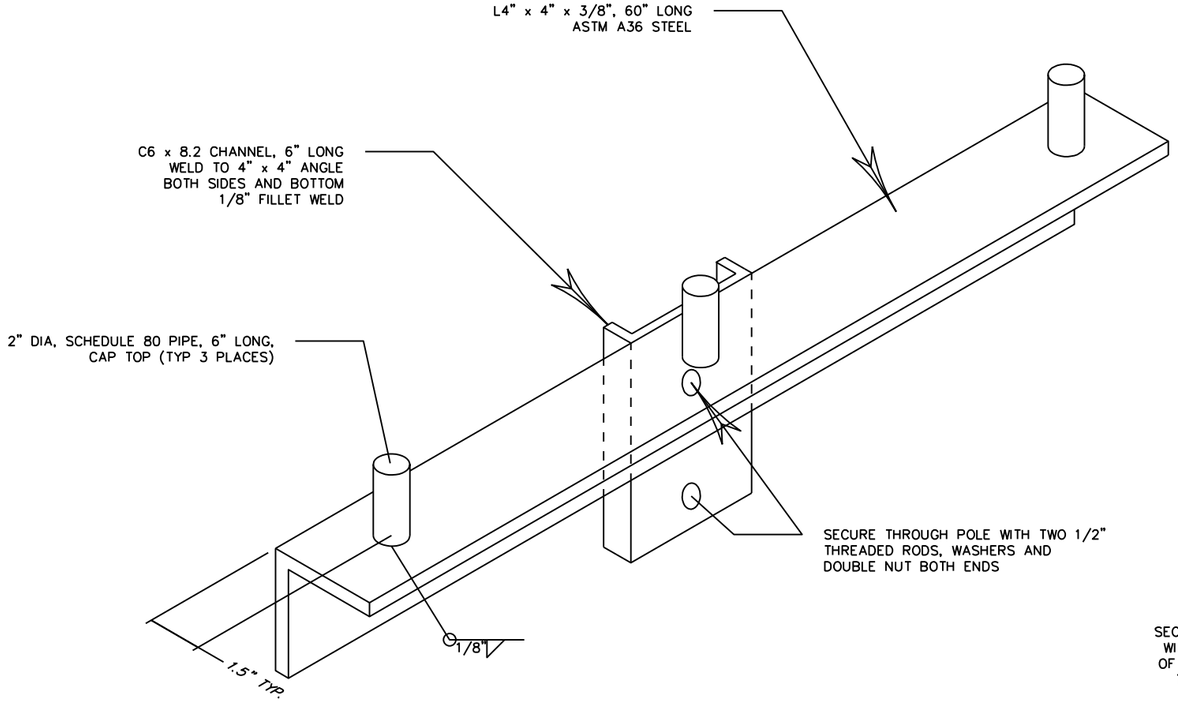
OVERHEAD WIRE DETAIL

SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
NTS

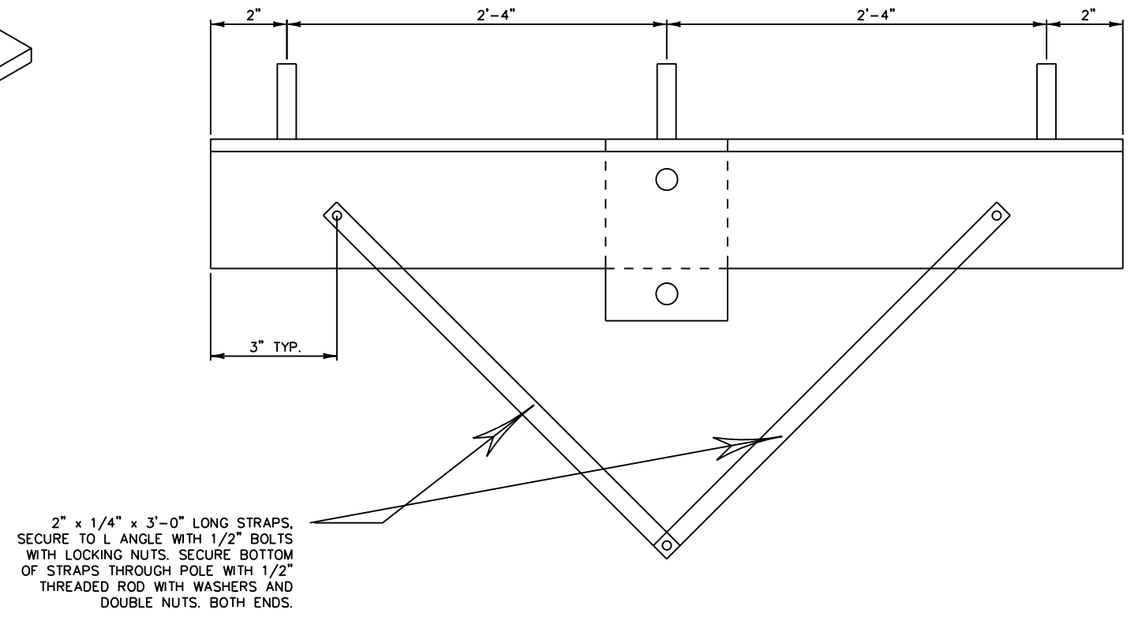
2

NOTES

1. HOT DIP GALVANIZE AFTER FABRICATION.
2. POLE WITH 2 OR 3 LUMINAIRES TO USE BRACKET AS SHOWN. PROVIDE ONLY THE CENTER PORTION WITH 4" L ANGLE, 6" LONG FOR A SINGLE FIXTURE.



ISOMETRIC VIEW
STRAPS NOT SHOWN FOR CLARITY



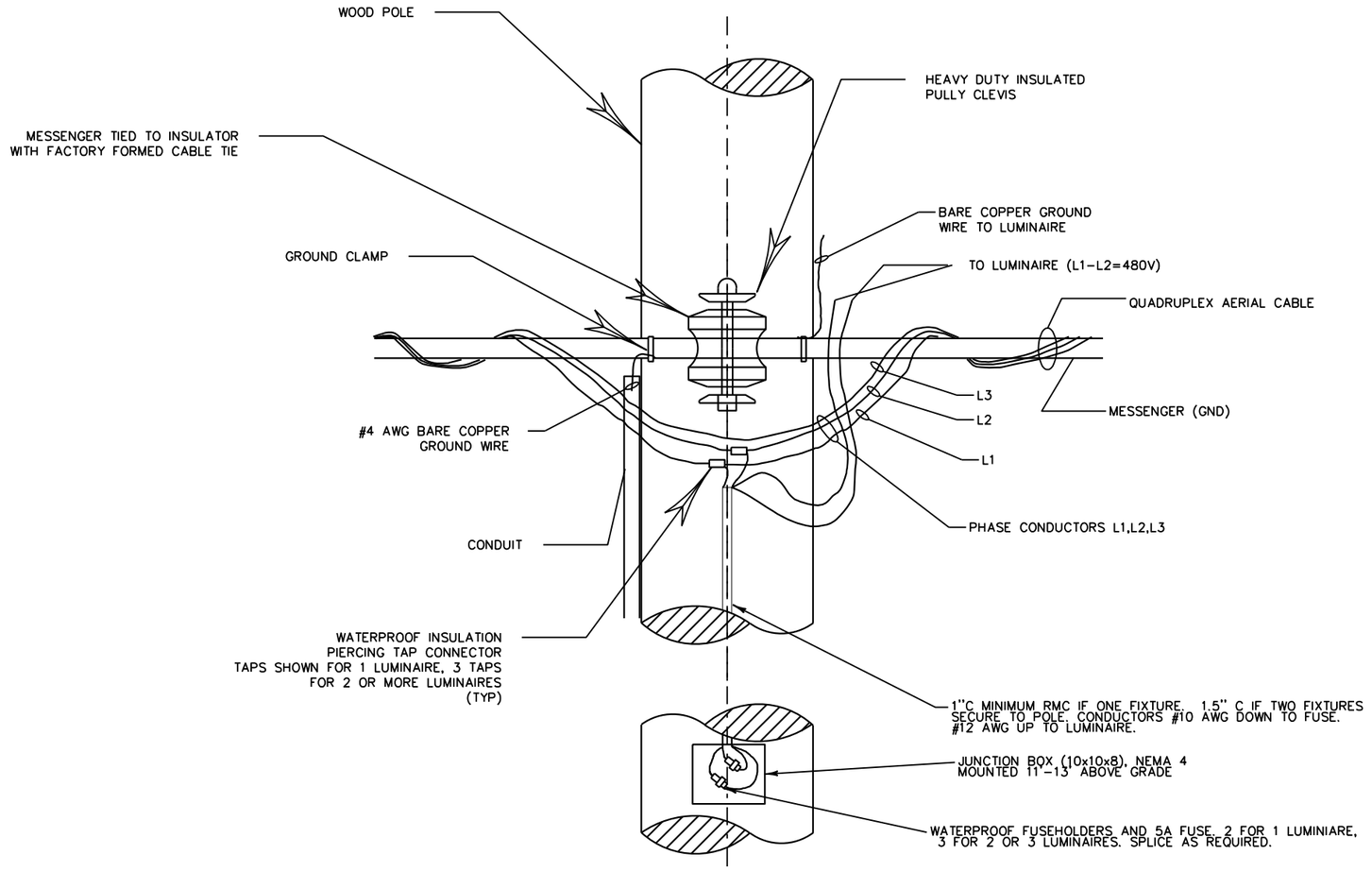
FRONT VIEW

FLOODLIGHT MOUNTING BRACKET
NTS

2

NOTES

1. IF TWO OR MORE CABLES ON A POLE ARE FOR THE SAME CIRCUIT, CONNECT THE EQUIPMENT GROUNDING CONDUCTOR AND GROUNDED CONDUCTOR (NEUTRAL) AT EACH POLE.
2. TAPS, CONDUIT, JUNCTION BOX, INSULATIOR, CLEVIS FUSE HOLDERS, WIRING TO/FROM JUNCTION BOX AND TO LUMINAIRE ARE PART OF THE BID ITEM "WOOD POLE LIGHTING 60-FOOT".



OVERHEAD CABLE SPLICE AT WOOD POLE-TEMPORARY 480V FIXTURES WIRED PHASE-PHASE

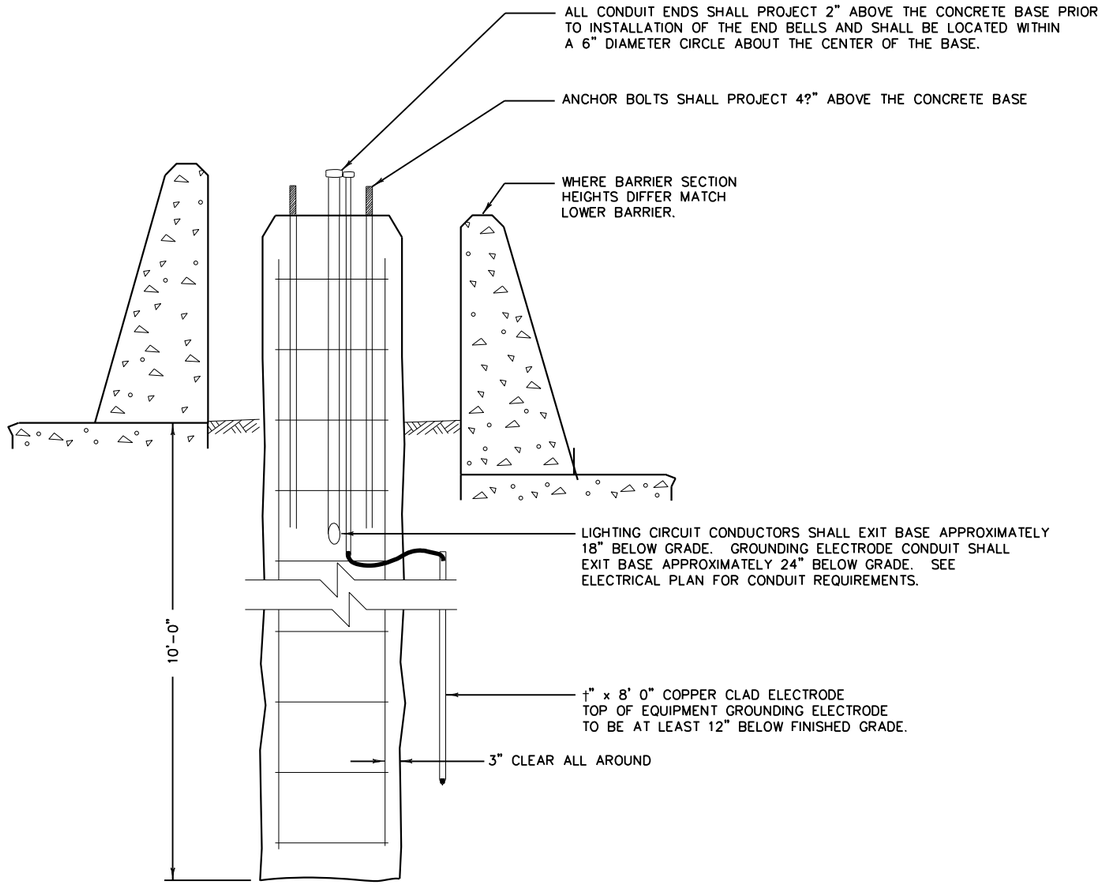
NTS

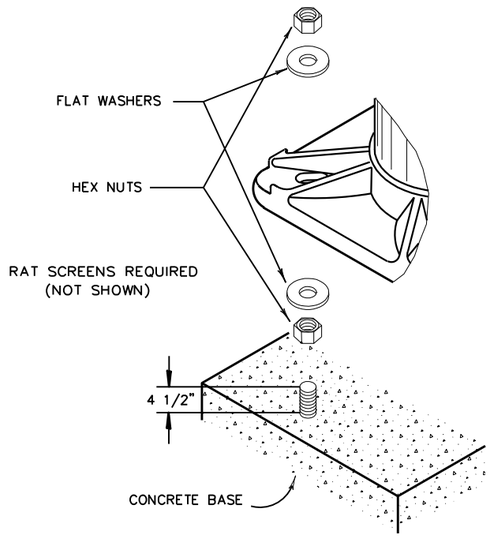
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NOTES

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

DETAILS OF CONSTRUCTION WITH THE EXCEPTION OF HEIGHT ABOVE GRADE AND CONDUIT SIZE SHALL BE AS DEFINED IN THE STANDARD DETAIL FOR TYPE 8 BASE.





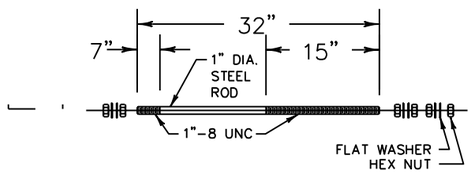
CONCRETE BASE, TYPE "B"

(1" ANCHOR RODS, 15" BOLT CIRCLE, 4 1/2" PROJECTION)

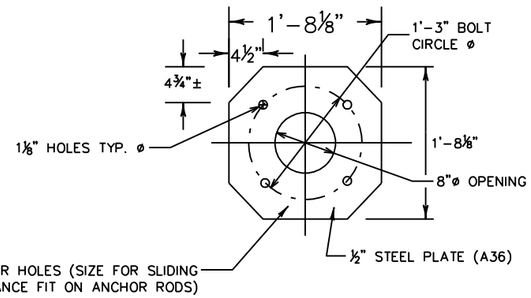
SHEET 1 OF 1

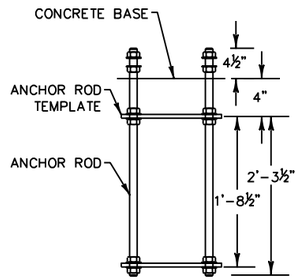
PROJECT NO: 1100-20-70	HWY: IH 41/USH 45	COUNTY: MILWAUKEE	LIGHTING PLANS - DETAILS	SHEET E

PRE_77



ANCHOR ROD – 4 EACH PER BASE
(FULL THREAD ROD MAY BE USED)





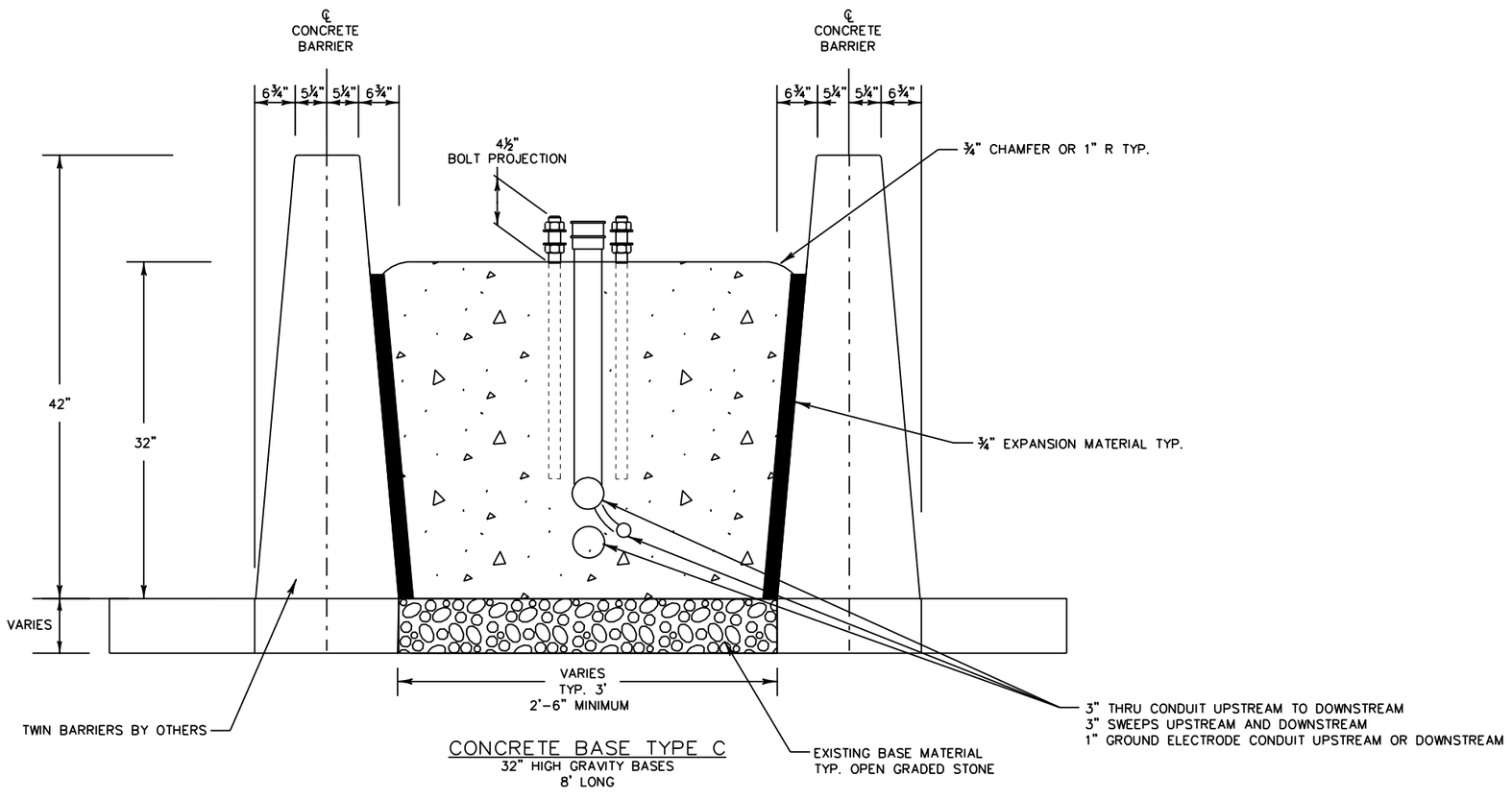
ANCHOR ASSEMBLY

ANCHOR ROD TEMPLATE
(2 EACH PER BASE)

ANCHOR ROD ASSEMBLY
(INCIDENTAL TO CONCRETE BASE – 1 EACH PER BASE)

ANCHOR ROD SHALL BE ASTM F1554
THREADED 12-INCH AT TOP; 4-INCH AT BOTTOM,
HOT DIP GALVANIZED TO ASTM A153, GR C
*CHASE THREADS FOR HOT-DIP GALVANIZED ANCHOR RODS
** FAILURE TO MEET TOLERANCE CONDEMNS THE BASE

REQUIRED:
2 TEMPLATES
4 ANCHOR RODS
24 FLAT WASHERS HOT-DIP GALVANIZED
24 HEAVY DUTY HEX NUTS* HOT-DIP GALVANIZED



CONCRETE BASE TYPE C
32" HIGH GRAVITY BASES
8' LONG

GENERAL NOTES:

DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SECTION 654 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.

BAR STEEL REINFORCEMENT SHALL BE "COATED HIGH STRENGTH BAR STEEL REINFORCEMENT".

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED AT LEAST 2 INCHES (3 INCH EMBEDMENT, TYPICAL).

BAR STEEL REINFORCEMENT QUANTITIES AND LENGTHS NOTED ARE MINIMUM REQUIRED FOR A 4' WIDE, NORMAL CROSS SECTION BASE. ADDITIONAL QUANTITIES SHALL BE REQUIRED, FOR WIDER BASES AND WHERE THE PROFILE GRADE IS SEPARATED OR SUPER ELEVATED AND ARE INCIDENTAL TO "CONCRETE BASE, TYPE C".

ANCHOR RODS SHALL NOT BE WELDED TO THE BAR STEEL REINFORCEMENT. HOWEVER, TIE WIRES MAY BE USED.

THE ANCHOR ROD ASSEMBLY SHALL BE INSTALLED TRUE TO PLUMB.

THOROUGHLY VIBRATE THE CONCRETE THROUGH AND AROUND THE ANCHOR ROD ASSEMBLY.

UNLESS OTHERWISE NOTED, CONDUITS SHALL BE NON-METALLIC. WHEN METALLIC CONDUIT IS SPECIFIED, GROUNDING BUSHINGS SHALL BE USED.

ALL BASES SHALL HAVE A 1" CONDUIT FOR THE GROUNDING ELECTRODE CONDUCTOR.

CONDUITS ENDS PROJECTING ABOVE THE BASE SHALL BE SUITABLY PLUGGED BEFORE THE CONCRETE IS POURED, TO PREVENT DEBRIS CONTAMINATION OF THE RACEWAY.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS, FROM THE EQUIPMENT GROUNDING ELECTRODE, THROUGH THE JUNCTION BOX LUG, AND TO THE HAND HOLE LUG, PLUS AN ADDITIONAL 3' OF SLACK. THE SLACK SHALL BE NEATLY TIED IN A COIL THAT FITS BETWEEN THE ANCHOR RODS UNTIL THE POLE IS INSTALLED. GREAT CARE SHALL BE EXERCISED TO AVOID DAMAGE TO THE CONDUCTOR.

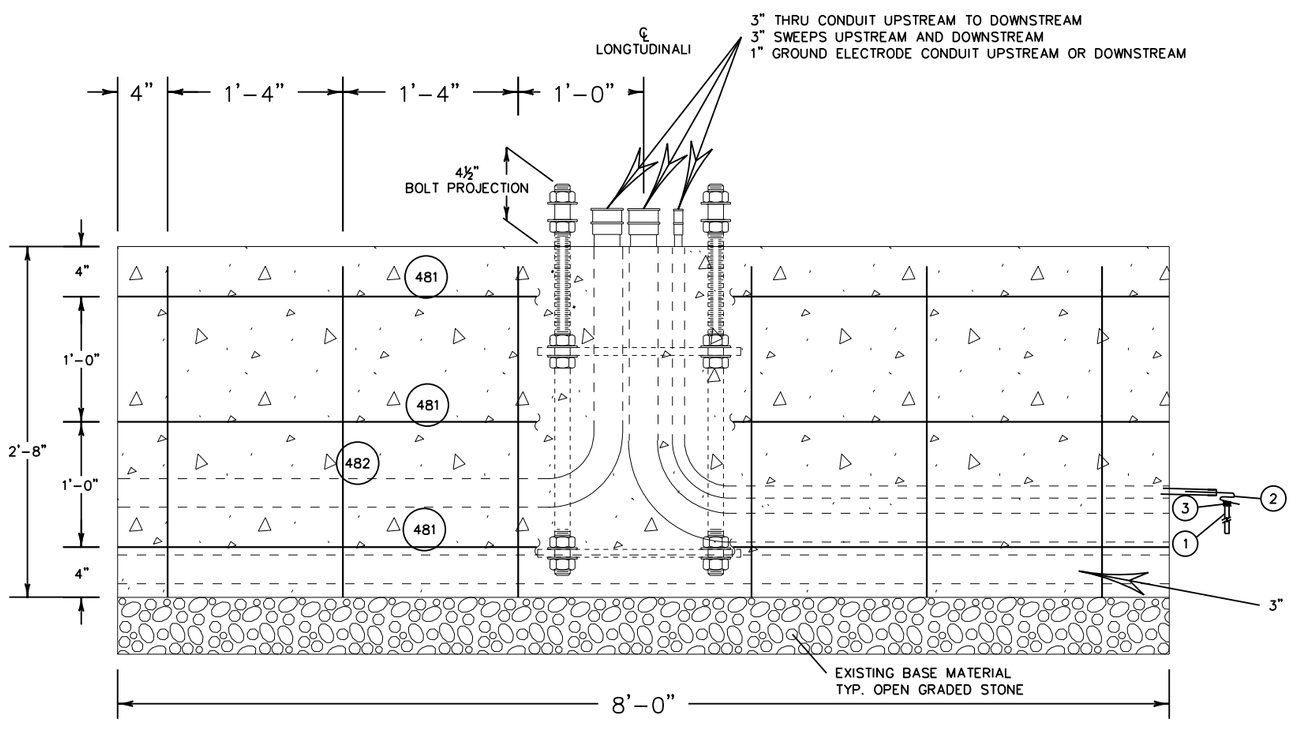
THE POLE FEED CONDUIT SHALL PROJECT 2 INCHES ABOVE THE CONCRETE BASE PRIOR TO THE INSTALLATION OF THE END BELL.

CUT CONDUIT AT UPSTREAM/DOWNSTREAM FACES FLUSH TO CONCRETE. REAM CONDUIT. NO END BELLS..

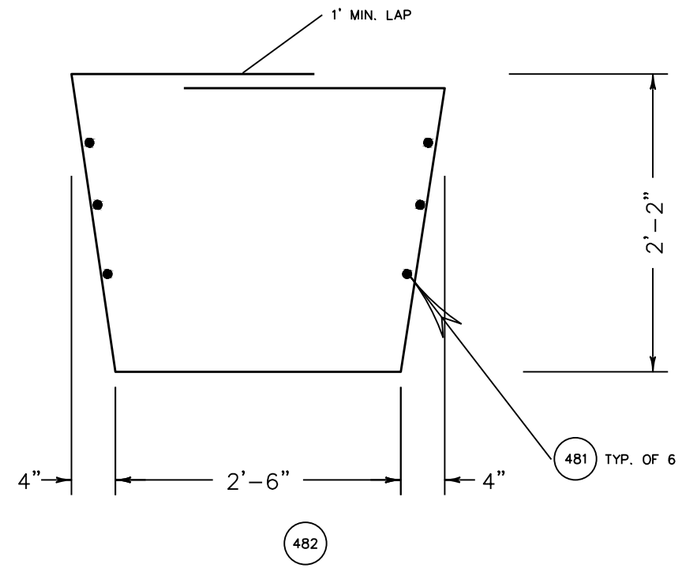
DO NOT SCALE.

2

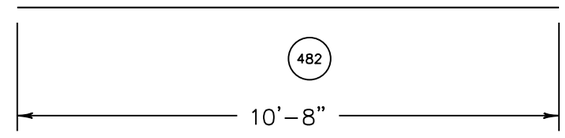
ESTIMATED QUANTITIES	
CONCRETE	2.75 C.Y.
BAR STEEL REINFORCEMENT	110 L.B.



LONGITUDINAL SECTION



482



1. ⅝" X 8'-0" COPPER CLAD GROUNDING ELECTRODE (GROUND ROD)
2. GROUNDING ELECTRODE CONDUCTOR (#4 AWG)
3. EXOTHERMIC WELD

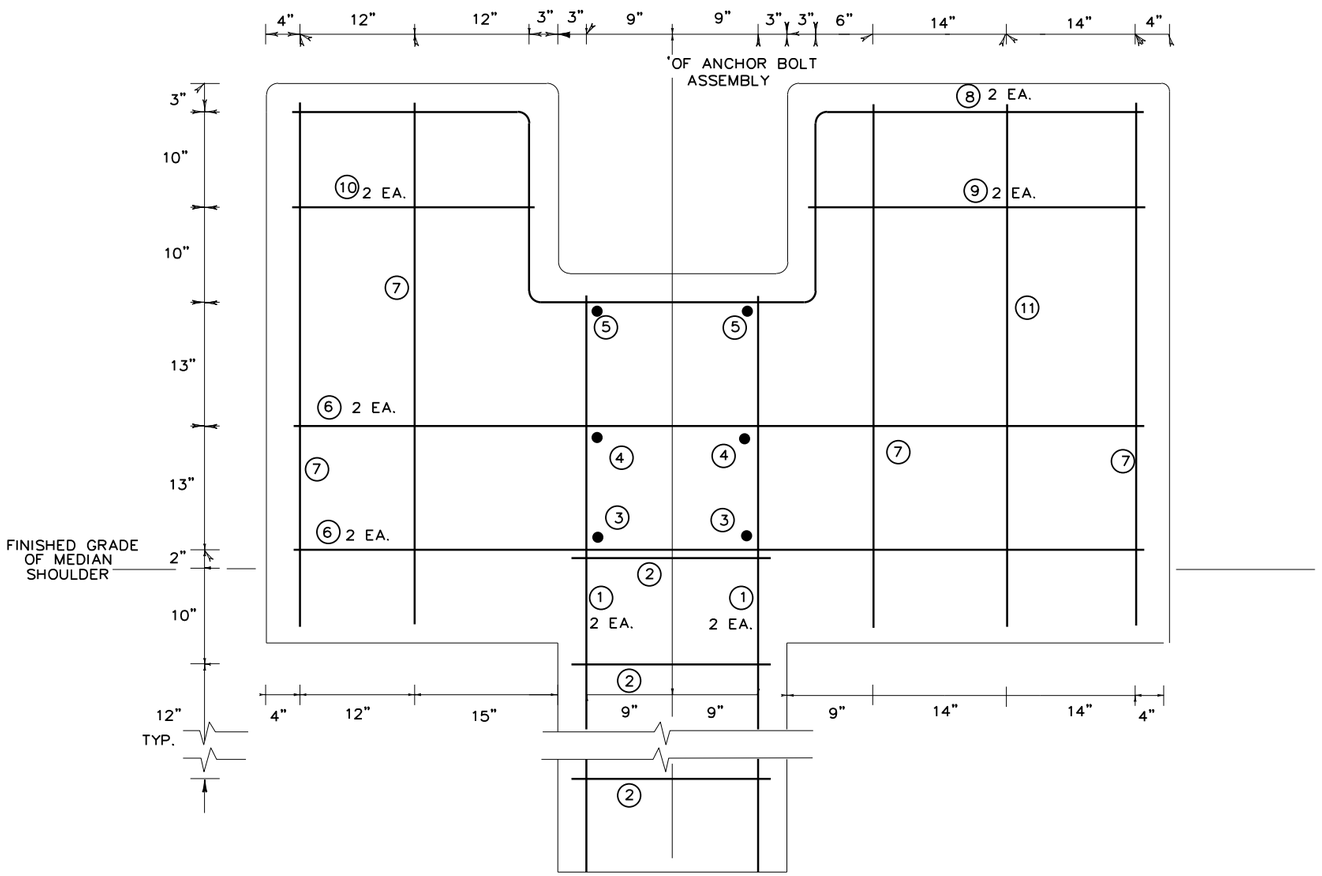
481 NO. 6 BAR STEEL REINF., 7'-8" (6 EACH)

482 NO. 4 BAR STEEL REINF., 10'-8" (6 EACH)

PROJECT NO: 1100-20-70	HWY: IH 41/USH 45	COUNTY: MILWAUKEE	LIGHTING PLANS - DETAILS	SHEET PRE_79 E

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\020101_GN - 021001_CD.DWG
LAYOUT NAME - 021014_cd
PLOT DATE : 10/15/2021 4:15 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

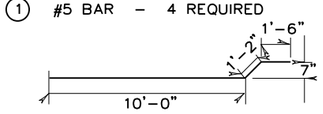
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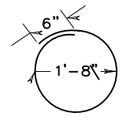
TYPE "HF3" CONCRETE BASE
BAR STEEL REINFORCEMENT

SCHEDULE OF BARS

(1) #5 BAR – 4 REQUIRED



(2) #3 HOOP – 9 REQUIRED



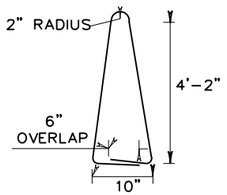
(3) #3 BAR X 1'–10" – 2 REQUIRED

(4) #3 BAR X 10" – 2 REQUIRED

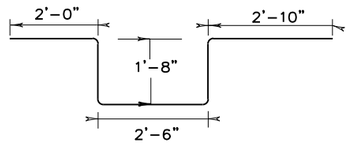
(5) #3 BAR X 6" – 2 REQUIRED

(6) #4 BAR X 7'–6" – 4 REQUIRED

(7) #4 HOOP – 4 REQUIRED



(8) #4 BAR – 2 REQUIRED



(9) #4 BAR X 3'–0" – 2 REQUIRED

(10) #4 BAR X 2'–2" – 2 REQUIRED

(11) #4 BAR X 4'–2" – 1 REQUIRED BEHIND JUNCTION BOX

GENERAL NOTES – REINFORCED CONCRETE MASONRY

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.

ALL BAR STEEL REINFORCEMENT SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED AT LEAST 2 INCHES.

ESTIMATED QUANTITIES

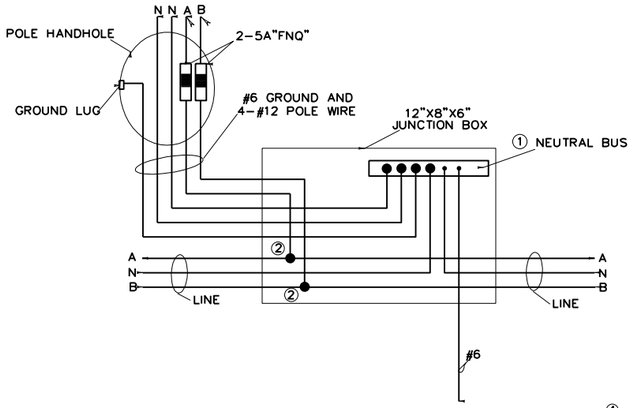
164 LBS. EPOXY–COATED BAR STEEL REINFORCEMENT

3 C.Y. CONCRETE MASONRY

PROJECT NO: 1100-20-70	HWY: USH 41/USH 45	COUNTY: MILWAUKEE	LIGHTING PLANS - DETAILS	SHEET PRE_80 E

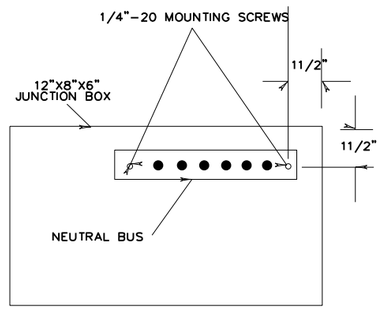
FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\020101_GN - 021001_CD.DWG
LAYOUT NAME - 021008_cd
PLOT DATE : 10/15/2021 4:15 PM
PLOT BY : WILLIAM NEAVE
PLOT NAME :
PLOT SCALE : N/A
WISDOT/CADDS SHEET 42

2

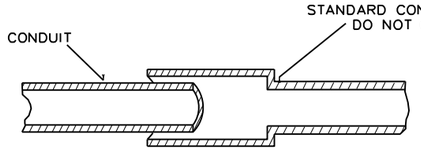


TYP. WIRING DIAGRAM FOR TYPE "HF3" BASE ④

(TWIN POLE SHOWN)



NEUTRAL BUS
MOUNTING LOCATION



TYP. EXPANSION FITTING

6 REQUIRED, MOST LOCATIONS

NOTES:

① THE NEUTRAL BUS SHALL CONSIST OF A HARD-DRAWN COPPER BAR WITH 6 POSITIONS, #2 (SOLID) TO #12 Cu. STRANDED. # 2 OR #1 SHALL BE LUGGED TO THE BUS. MOUNT THE BUS OFFSET FROM THE REAR WALL OF THE BOX. FURNISH 6 BRASS SET SCREWS. COAT THE BUS WITH AN APPROVED SILICONE CAULK AT THE TIME OF INSTALLATION AND AFTER EACH CONNECTION IS MADE.

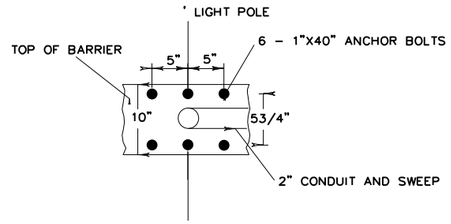
② SPLICES CONFORM TO SPLICES FOR DAMP LOCATIONS.

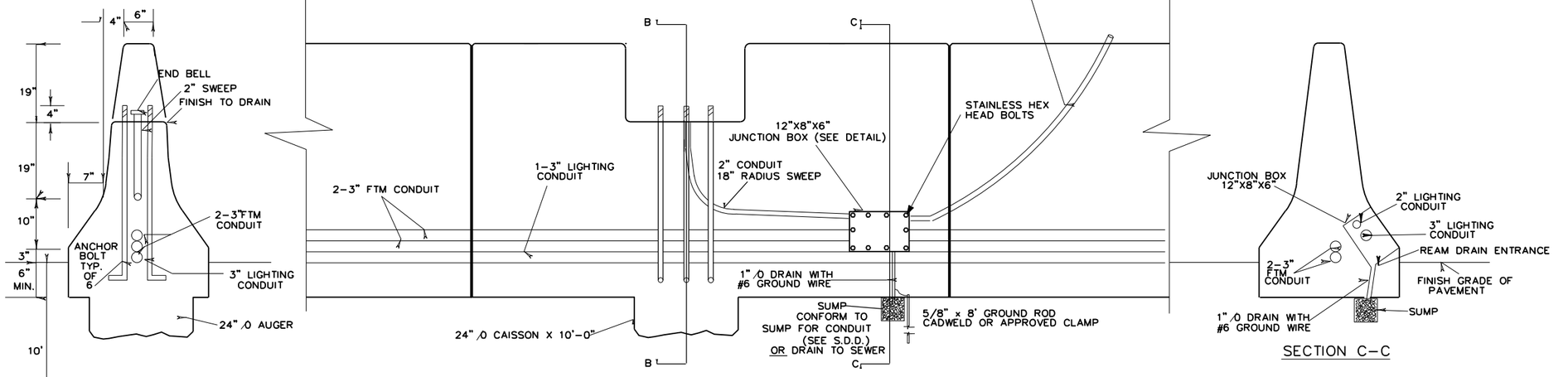
③ END BELLS REQUIRED EXCEPT DRAIN/GROUND CONDUIT

④ THIS DETAIL MODIFIES THE POLE WIRING DETAIL BUT APPLICALBLE PORTIONS OF THAT SHEET REMAIN IN FORCE.

⑤ CONDUIT SHALL CONFORM TO SECTION 613.2.3 OF THE STANDARD SPECIFICATIONS.

⑥ ANCHOR BOLTS SHALL CONFORM TO AASHTO M314-90, GRADE 55. THE TOP THREADED PORTION SHALL BE ROLL THREADED, THEN PAINTED WITH A ZINC PRIMER COAT WITH AN EPOXY MASTIC IN THE FIELD. ANCHOR BOLTS SHALL MEET AN ADDITIONAL REQUIREMENT FOR A MIN. CHARPY V-NOTCH VALUE OF 15 FT.-LB. AT -20°F.





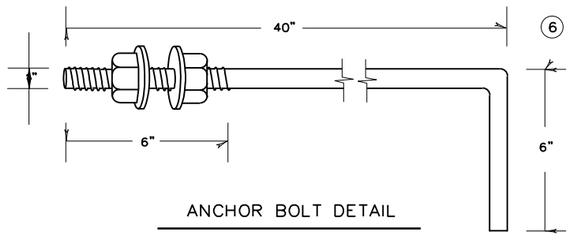
SECTION B-B

ELEVATION VIEW

SECTION C-C

ELECTRICAL DETAILS AND ANCHOR BOLTS

FTM=FREEWAY TRAFFIC MANAGEMENT SYSTEM

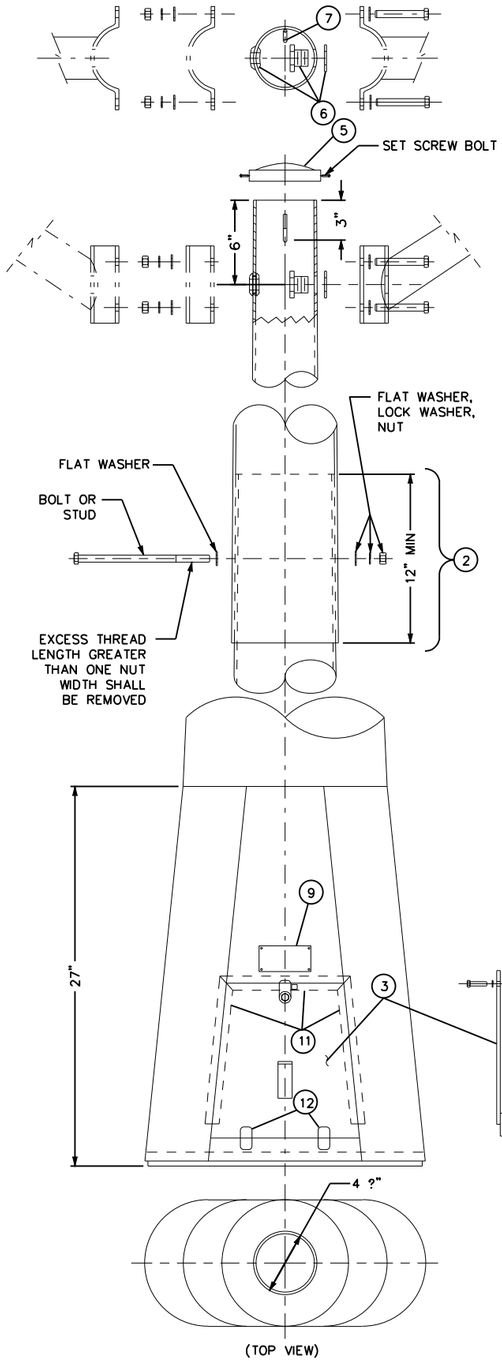


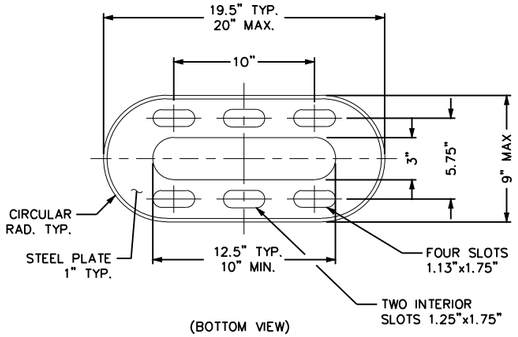
ANCHOR BOLT DETAIL

SHEET 3 OF 3

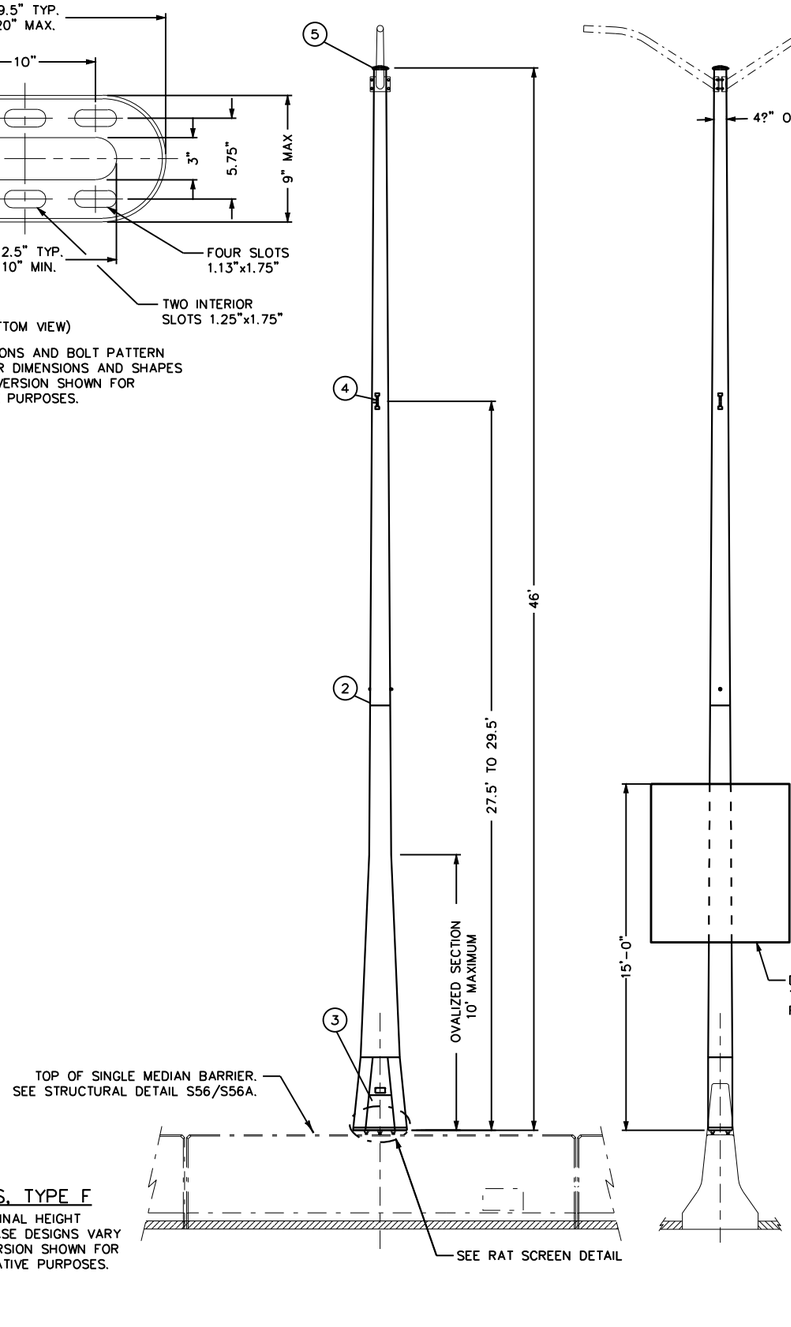
PROJECT NO: 1100-20-70	HWY: US 41/USH 45	COUNTY: MILWAUKEE	LIGHTING PLANS - DETAILS	SHEET E

PRE_81



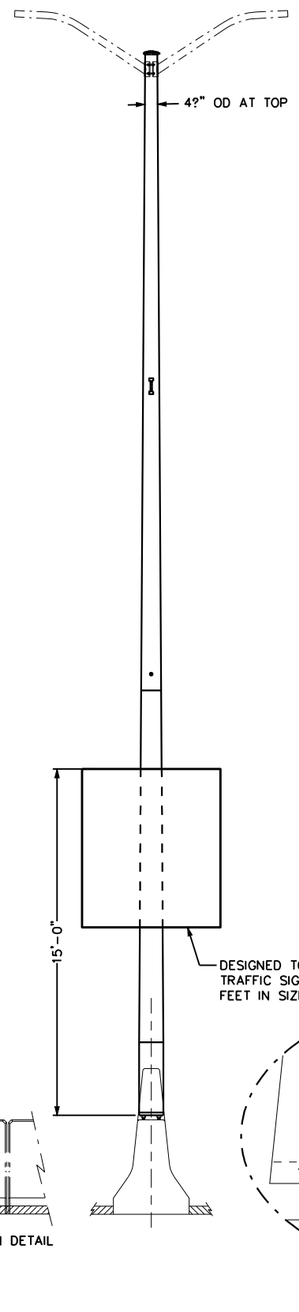


MAX DIMENSIONS AND BOLT PATTERN REQ'D. OTHER DIMENSIONS AND SHAPES VARY. THIS VERSION SHOWN FOR ILLUSTRATIVE PURPOSES.



POLES, TYPE F

50' NOMINAL HEIGHT
POLE BASE DESIGNS VARY
THIS VERSION SHOWN FOR
ILLUSTRATIVE PURPOSES.



NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF SECTION 654 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. POLES SHALL BE CONSTRUCTED OF HIGH STRENGTH STEEL, GALVANIZED PER ASTM A123.

ALL THREADED FASTENER COMPONENTS SHALL BE STAINLESS STEEL. NUTS SHALL BE HEX NUTS. BOLTS SHALL BE HEX HEAD. ALL THREADED SURFACES SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.

COLLAR-MOUNT LUMINAIRE ARMS AND CLAMP ASSEMBLIES, MEDIAN BARRIER, AND ANCHOR BOLT ASSEMBLIES SHOWN FOR INFORMATION ONLY (PAID SEPARATELY).

POLES SHALL BE MOUNTED WITH ANCHOR BOLT ASSEMBLIES. ANCHOR BOLT ASSEMBLIES AND LEVELING PLATES ARE INCIDENTAL TO CONCRETE BASE OR STUCTURE ANCHORAGE ITEM. THE REQUIRED RAT SCREEN SHALL BE INCIDENTAL TO THE INSTALLATION OF THE POLE.

LUMINAIRE LOADING FOR DESIGN CALCULATIONS SHALL BE 50-LB, 1.5 SQ FEET EPA.

(1) GALVINIZED STEEL MESH (RAT SCREEN) AND 3/4" STAINLESS STEEL BANDING.

(2) OPTIONAL TELESCOPING FIELD JOINT SECURED BY A 5/8"-11 UNC THROUGH BOLT OR STUD. THE OVERLAP OF THE UPPER AND LOWER SECTIONS SHALL BE NOT LESS THAN 12".

(3) HATCH COVER, SECURED BY 1/4"-20 UNC HEX HEAD BOLT. THE POLE SHALL BE INSTALLED SUCH THAT THE HATCH IS ON THE RIGHT SIDE OF THE BARRIER UNLESS OTHERWISE SHOWN IN THE PLANS.

(4) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER. MOUNT AT ELEVATION 27.5' TO 29.5' +/-.

(5) VENTILATED POLE CAP. SECURE WITH ONE OR MORE 1/4"-20 UNC SET SCREW BOLTS.

(6) HOLE (FACTORY DRILLED PRIOR TO GALVINIZING, 2 EACH) AND 1" CHASE NIPPLE AND NUT (OR NEOPRENE GROMMET), PER EACH REQUIRED LUMINAIRE ARM.

(7) FACTORY-WELDED "J" HOOK FOR POLE WIRE STRAIN RELIEF.

(8) FACTORY-WELDED L-CLIP FOR GROUNDING LUG, OPPOSITE HANDHOLE. PROVIDE HOLE IN L-CLIP FOR?"-20 UNC THROUGH BOLT.

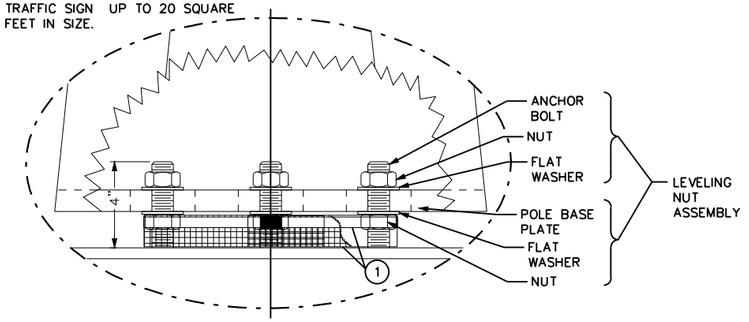
(9) MANUFACTURER'S PLATE SHOWING WISDOT POLE TYPE, MANUFACTURER, AND DATE.

(10) HATCH COVER LOCKING CLIP *

(11) HATCH COVER BACKING STRAPS *

(12) HATCH COVER MOUNTING CLIPS, OR STRAP *

* ARRANGEMENTS VARY - SHOWN FOR ILLUSTRATIVE PURPOSES ONLY



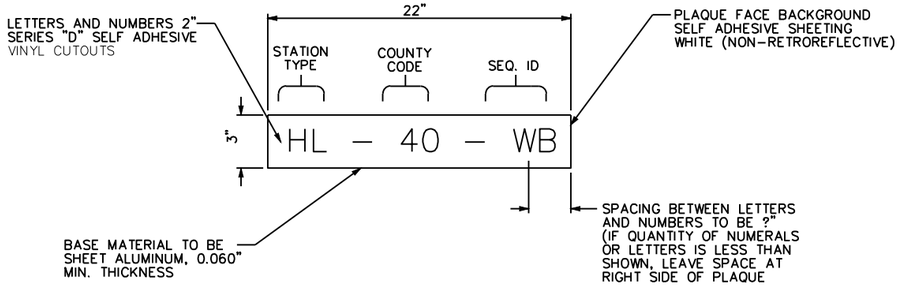
RAT SCREEN DETAIL

SHEET 1 OF 1

PROJECT NO: 1100-20-70	HWY: IH 41/USH 45	COUNTY: MILWAUKEE	LIGHTING PLANS - DETAILS	SHEET E

PRE_82

2



DISTRIBUTION CENTER
IDENTIFICATION PLAQUE

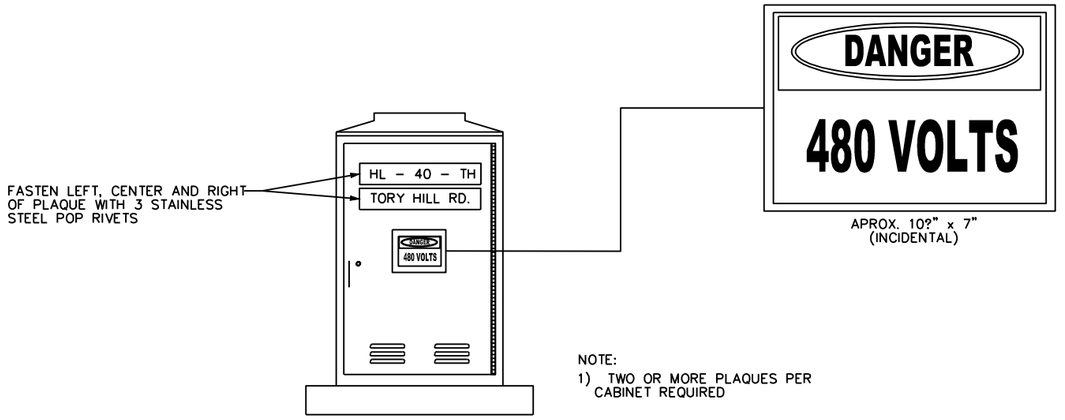
WISCONSIN AVE.

MNEMONIC

(SEE MISCELLANEOUS QUANTITIES)
(NUMBER OF CHARACTERS VARIES
THIRD PLAQUE MAY BE
NECESSARY)

GENERAL NOTE:

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



DISTRIBUTION CENTER IDENTIFICATION PLAQUE
REQUIREMENTS AND PLACEMENTS
(TYPICAL ALL CONTROL CABINETS)

SHEET 1 OF 1

PROJECT NO: 1100-20-70	HWY: IH 41/USH 45	COUNTY: MILWAUKEE	LIGHTING PLANS - DETAILS	SHEET E

PRE_83

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\020101_GN - 021001_CD.DWG
LAYOUT NAME - 021011_cd

PLOT DATE : 10/15/2021 4:15 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : Custom

2

N

ATHLETIC FIELD

INL

IH 41 / USH 45

MATCHLINE STA 475+50

MATCHLINE STA 489+50

#8 D.N

W LOCUST ST.

N 114TH ST.

MH

165+13
LED-D-A(T)-4-ABS11

167+12, 98' LT
LED-C-5(T)-6-EBS9

168+62, 104' LT
LED-C-5(T)-6-FBS8

170+12, 113' LT
LED-C-5(T)-6-EBS8

171+53, 127' LT
LED-C-5(T)-6-FBS7

172+87, 151' LT
LED-C-5(T)-6-EBS7

174+20, 180' LT
LED-C-5(T)-6-FBS6

175+52, 200' LT
LED-C-5(T)-6-EBS6

176+85, 208' LT
LED-C-5(T)-6-FBS5

167+53
LED-D-A(T)-4-BBS10

169+83
LED-D-A(T)-4-ABS9

172+13
LED-D-A(T)-4-BBS8

174+43
LED-D-A(T)-4-ABS7

176+73
LED-D-A(T)-4-ABS6

LED-D-A(T)-4-BBS11

LED-D-A(T)-4-ABS10

LED-D-A(T)-4-BBS9

LED-D-A(T)-4-ABS8

LED-D-A(T)-4-BBS7

LED-D-A(T)-4-BBS6

166+52, 91' RT
LED-C-5(T)-6-CBS1

168+01, 93' RT
LED-C-5(T)-6-DBS1

169+51, 100' RT
LED-C-5(T)-6-CBS2

171+04, 114' RT
LED-C-5(T)-6-DBS2

172+67, 133' RT
LED-C-5(T)-6-CBS3

174+33, 155' RT
LED-C-5(T)-6-DBS3

176+00, 178' RT
LED-C-5(T)-6-CBS4

177+69, 200' RT
LED-C-5(T)-6-DBS4

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET E

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023401_LR 2021-02-26.DWG
LAYOUT NAME - 023402_lr - 70

PLOT DATE : 6/17/2021 2:13 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_84

2

HL-40-BS
A,B,C,D,E BLACK
A,B,C,D,E 30A
480VAC 2 WIRE
GROUNDED NEUTRAL
30

N

W BURLEIGH ST.

179+73, 305' LT
LED-C-5(T)-6-EBS4

179+23, 217' LT
LED-C-5(T)-6-FBS4

178+17, 204' LT
LED-C-5(T)-6-EBS5

181+63, 202' LT
LED-C-5(T)-6-FBS3

183+43, 197' LT
LED-C-5(T)-6-EBS3

184+92, 169' LT
LED-C-5(T)-6-FBS2

186+41, 138' LT
LED-C-5(T)-6-EBS2

187+90, 117' LT
LED-C-5(T)-12-FBS1

189+61, 112' LT
LED-D-E(T)-20-EBS1

187+39
LED-D-A(T)-4-BBS2

190+14
LED-D-A(T)-4-ABS1

179+13
LED-D-A(T)-4-ABS5

181+62
EX. LPB-BS-5

181+94
LED-D-E(A)-8-BBS4

182+33
EX. LPB-BS-4

184+71
LED-D-A(T)-4-ABS3

MATCHLINE STA 489+50

MATCHLINE STA 191+25

IH 41 / USH 45

IH 41 / USH 45

LED-D-A(T)-4-BBS5

182+35, 75' RT
EX. LPB-BS-803

LED-D-E(A)-8-ABS4

LED-D-A(T)-4-BBS3

LED-D-A(T)-4-ABS2

LED-D-A(T)-4-BBS1

187+54, 116' RT
LED-C-5(T)-6-DBS7

185+60, 148' RT
LED-C-5(T)-6-CBS7

189+68, 100' RT
LED-C-5(T)-6-CBS8

179+44, 208' RT
LED-C-5(T)-6-CBS5

182+48, 192' RT
LED-C-5(T)-6-CBS6

183+69, 182' RT
LED-C-5(T)-6-DBS6

181+97, 229' RT
DISTRIBUTION
CENTER
HL-40-BS

181+64, 262' RT
LED-C-5(T)-6-DBS5

W BURLEIGH ST.

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET E

PRE_85

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023401_LR 2021-02-26.DWG
LAYOUT NAME - 023403_lr - 70

PLOT DATE : 6/17/2021 2:14 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

IH 41 / USH 45

IH 41 / USH 45

MATCHLINE STA 191+25

13+00 14+00 15+00 17+00 18+00 19+00 20+00

192 194 196 198 200 202 204

193+08
LED-D-E(A)-8-BCC3

195+86
LED-D-E(A)-8-ACC4

198+67
LED-D-E(A)-8-BCC5

201+45
LED-D-A(T)-4-ACC6
S-40-237 SB
NO SIGN LIGHTING

203+13, 1' RT
EX. LJB-CC-7A

204+24
LED-D-F(A)-8-DCC1

LED-D-A(T)-4-BCC6
S-40-237 NB
NO SIGN LIGHTING

203+08, 70' RT
EX. LPB-CC-7B

LED-D-F(A)-8-CCC1

202+03, 134' RT
DISTRIBUTION
CENTER
HL-40-CC

202+84, 144' RT
EX. LPB-CC-7A

LED-D-E(A)-8-ACC3

LED-D-E(A)-8-BCC4

LED-D-E(A)-8-ACC5

MATCHLINE STA 205+50

6 C,D,N

2 1/2"

3-3"

3"

INL MH W HW

HL-40-CC

A,C,	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30A

120/240VAC 3 WIRE
GROUNDED NEUTRAL

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET E

PRE_86

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023401_LR 2021-02-26.DWG
LAYOUT NAME - 023404_lr - 70

PLOT DATE : 6/17/2021 2:14 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

UNION PACIFIC

209+78
LED-D-A(A)-4-DCC3

207+03
LED-D-F(A)-8-CCC2

212+59
LED-D-A(T)-4-CCC4

215+47
LED-D-F(A)-4-DCC7

MATCHLINE STA 206+50

MATCHLINE STA 217+60

IH 41 / USH 45

IH 41 / USH 45

206

208

210

212

214

216

LED-D-F(A)-8-DCC2

209+76
LED-D-A(A)-4-CCC5

212+57
LED-D-A(A)-4-DCC6

LED-D-F(A)-4-CCC7

UNION PACIFIC

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET E

PRE_87

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023401_LR 2021-02-26.DWG
LAYOUT NAME - 023405_lr - 70

PLOT DATE : 6/17/2021 2:15 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MH

W INL

221+10
LED-D-F-4-ACD5

223+85
LED-D-F-4-BCD4

222+43, 97' LT
LED-D-E(T)-15-FCD3

224+43, 95' LT
LED-C-5(T)-6-ECD3

226+42, 102' LT
LED-C-5(T)-6-FCD2

228+43, 108' LT
LED-C-5(T)-6-ECD2

230+43, 111' LT
LED-C-5(T)-6-FCD1

*8 6,N

226+56
LED-D-F-4-ACD3

229+29
LED-D-F-4-BCD2

*8-6-8 C,N,D

*8-6-8 C,N,D

IH 41 / USH 45

IH 41 / USH 45

MATCHLINE STA 217+60

MATCHLINE STA 230+50

4 6 8 10 12 14 16

218 220 222 224 226 228 230

3"

LED-D-F-4-BCD5

LED-D-F-4-ACD4

LED-D-F-4-BCD3

LED-D-F-4-ACD2

222+23, 69' RT
LED-D-E(T)-15-HCD3

224+22, 71' RT
LED-C-5(T)-6-GCD3

226+22, 90' RT
LED-C-5(T)-6-HCD2

228+23, 101' RT
LED-C-5(T)-6-GCD2

230+23, 108' RT
LED-C-5(T)-6-HCD1

GOLF GREEN

GOLF GREEN

F
SE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET E

PRE_88

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023401_LR 2021-02-26.DWG
LAYOUT NAME - 023406_lr - 70

PLOT DATE : 6/17/2021 2:16 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MATCHLINE STA 116+70

233+53, 417' LT
LED-C-5(T)-6-ECD1

233+43, 312' LT
LED-C-5(S)-10/15-FCD5

233+26, 146' LT
LED-C-5(T)-6-ECD4/FCD4

232+43, 171' LT
LED-C-5(T)-6-ECD1

232+16
LED-D-F-4-ACD1

234+45, 399' LT
LED-C-5(T)-6-CCD5

234+28, 296' LT
LED-C-5(S)-10/15-CCD4/DCD4

234+13, 141' LT
LED-C-5(S)-10/15-DCD3/CCD3

W CAPITAL DR.

DISTRIBUTION CENTER
HL-40-CD

B,D,F,H,K
N
GND
BLACK
WHITE
GREEN
OR BARE

A,C,C,G,J
B,D,F,H,K
30A

240/480 VAC 3 WIRE
ISOLATED NEUTRAL

A/B/N/G
J/K/N/G

C/D/N/G
E/F/N/G
G/H/N/G

234+95, 170' LT
LED-C-5(T)-6-CCD1

2-#8AWG
CID

#8 5,N

#8 6,N

#8 6,N

PB109

PB110

PB111

PB112

PB114

8-8
CIRC 8

8-8
CIRC 6

8-8
CIRC 8

1"RMC

#6-2-6
CIRC6/8

6-6
CIRC 8

#6-2-6
C,N,D

6-6
CIRC 8

6-6
CIRC 7

B-48-334

RW-40-47
6-2-6 C,N,D

RW-40-48

RW-40-41
#6-2-6 A,N,B

RW-40-45

236+81, 119' LT
LED-C-5(T)-6-DCD1

238+72, 114' LT
LED-C-5(T)-6-CCD2

239+69
LED-D-F-4-ACD8

240+71, 88' LT
LED-C-5(T)-6-DCD2

242+00
LED-D-F-4-BCD9

235+04
LED-D-F-4-ACD6

237+26
LED-D-F-4-BCD7

LED-D-F-4-ACD7

LED-D-F-4-BCD6

LED-D-F-4-BCD8

LED-D-F-4-ACD9

IH 41 / USH 45

#6-2-6 A,N,B

MATCHLINE STA 232+25

MATCHLINE STA 243+25

MATCHLINE STA 124+00

234+59, 134' RT
LED-C-5(T)-6-JCD1

233+94, 142' RT
LED-C-5(S)-10/15-KCD16/JCD16

232+23, 151' RT
LED-C-5(T)-6-GCD1

233+07, 139' RT
LED-C-5(T)-6-GCD4/HCD4

236+89, 108' RT
LED-C-5(T)-6-KCD1

239+01, 111' RT
LED-C-5(T)-6-JCD2

241+11, 110' RT
LED-C-5(T)-6-KCD2

243+01, 111' RT
LED-C-5(T)-6-JCD3

LED-C-5(T)-6-BCD1

CEMETERY

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET E

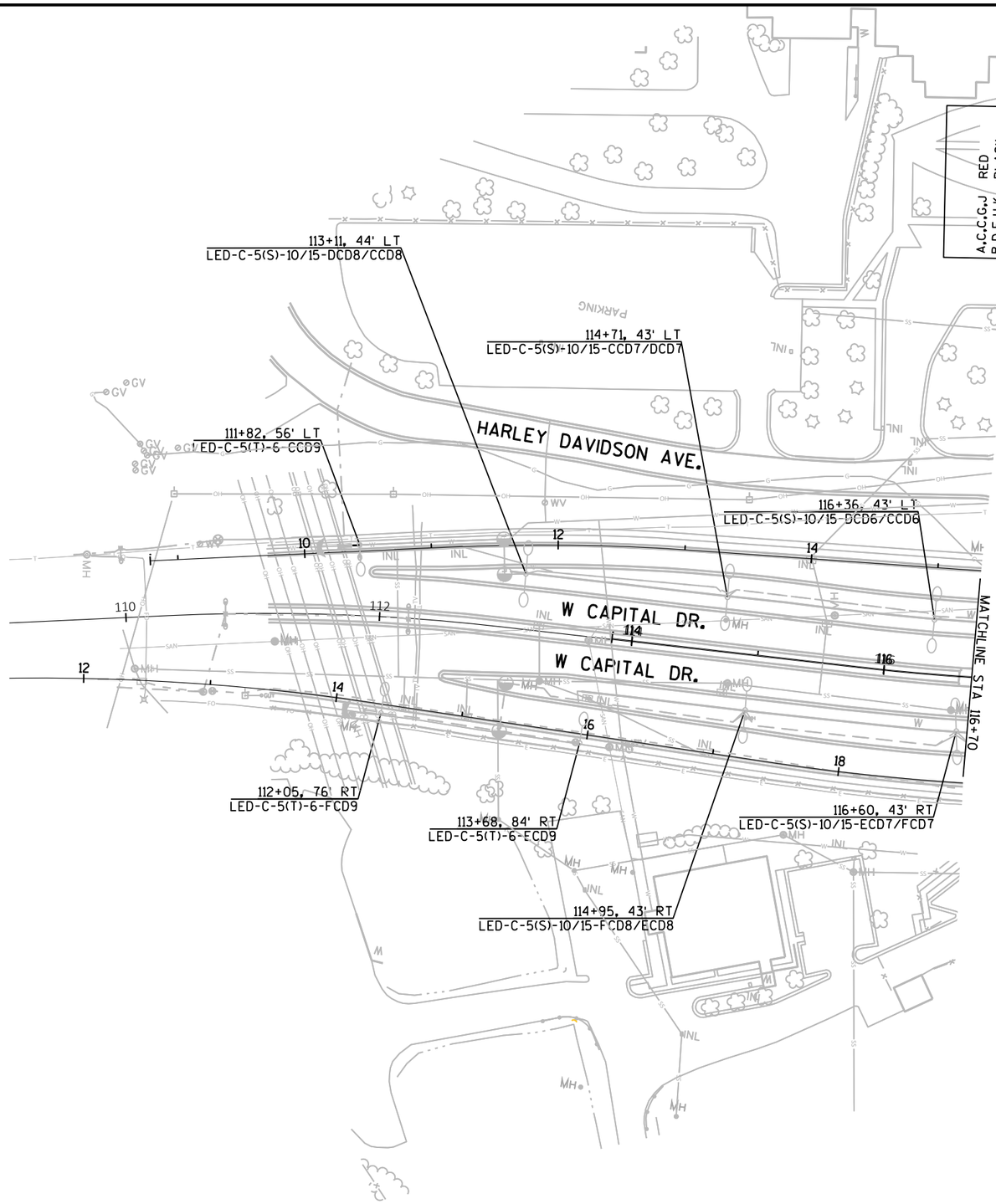
PRE_89

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023401_LR 2021-02-26.DWG
LAYOUT NAME - 023407_lr - 70

PLOT DATE : 6/17/2021 2:17 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET E

PRE_90

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023401_LR 2021-02-26.DWG
LAYOUT NAME - 023408_lr - 70

PLOT DATE : 6/17/2021 2:18 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

124+25, 44' LT
LED-C-5(S)-10/15-JCD7/KCD7

125+90, 44' LT
LED-C-5(S)-10/15-KCD8/JCD8

127+44, 49' LT
LED-C-5(S)-10/15-JCD22

128+78, 87' LT
LED-C-5(T)-6-JCD23

STH 190

STH 190

MATCHLINE STA 124+00

127+50, 76' RT
LED-C-5(T)-6-GCD7

125+77, 43' RT
LED-C-5(S)-10/15-HCD5/GCD5

128+77, 67' RT
LED-C-5(T)-6-HCD7

124+17, 43' RT
LED-C-5(S)-10/15-HCD5/GCD5

MENOMONEE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET E

PRE_91

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023401_LR 2021-02-26.DWG
LAYOUT NAME - 023409_lr - 70

PLOT DATE : 6/17/2021 2:19 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

INL

244+36
LED-D-F-4-ACD10

246+77
LED-D-F-4-BCD11

249+11
LED-D-F-4-ACD12

251+48
LED-D-E(A)-8-DHM14

254+23
LED-D-E(A)-8-EHM13

MATCHLINE STA 243+25

MATCHLINE STA 256+50

19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00

IH 41 / USH 45

*8-6-8 A,N,B

RPB8A
JB8B

244 246 248 250 252 254 256

3" 3"

*8-6-8 A,N,B

IH 41 / USH 45

44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 52+00 53+00 53+00 54+00 55+00 56+00

LED-D-E(A)-8-EHM14

255+07, 95' RT
S-40-370

LED-D-F-4-ACD11

LED-D-F-4-BCD12

252+88, 91' RT
LED-C-5(T)-6-KCD5

245+01, 116' RT
LED-C-5(T)-6-KCD3

247+01, 106' RT
LED-C-5(T)-6-JCD4

248+88, 102' RT
LED-C-5(T)-6-KCD3

250+89, 88' RT
LED-C-5(T)-6-JCD5

LED-D-E(A)-8-DHM13

LED-D-F-4-BCD10

PROJECT NO: 1100-20-70/71	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET E

PRE_92

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023401_LR 2021-02-26.DWG
LAYOUT NAME - 023410_lr - 70-71

PLOT DATE : 6/17/2021 2:20 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

ATHLETIC FIELD

INL

165+13
LED-D-A(T)-4-ABS11

167+12, 98' LT
LED-C-5(T)-6-EBS9

168+62, 104' LT
LED-C-5(T)-6-FBS8

170+12, 113' LT
LED-C-5(T)-6-EBS8

171+53, 127' LT
LED-C-5(T)-6-FBS7

172+87, 151' LT
LED-C-5(T)-6-EBS7

174+20, 180' LT
LED-C-5(T)-6-FBS6

175+52, 200' LT
LED-C-5(T)-6-EBS6

176+85, 208' LT
LED-C-5(T)-6-FBS5

#8 D.N

174+43
LED-D-A(T)-4-ABS7

172+13
LED-D-A(T)-4-BBS8

169+83
LED-D-A(T)-4-ABS9

167+53
LED-D-A(T)-4-BBS10

176+73
LED-D-A(T)-4-ABS6

IH 41 / USH 45

166

168

170

172

174

LED-D-A(T)-4-BBS9

LED-D-A(T)-4-ABS8

LED-D-A(T)-4-ABS10

LED-D-A(T)-4-BBS7

MATCHLINE STA 475+50

MATCHLINE STA 489+50

LED-D-A(T)-4-BBS11

LED-D-A(T)-4-BBS6

169+51, 100' RT
LED-C-5(T)-6-CBS2

171+04, 114' RT
LED-C-5(T)-6-DBS2

172+67, 133' RT
LED-C-5(T)-6-CBS3

168+01, 93' RT
LED-C-5(T)-6-DBS1

166+52, 91' RT
LED-C-5(T)-6-CBS1

174+33, 155' RT
LED-C-5(T)-6-DBS3

176+00, 178' RT
LED-C-5(T)-6-CBS4

177+69, 200' RT
LED-C-5(T)-6-DBS4

W LOCUST ST.

N 114TH ST.

MH

INL

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET E

PRE_93

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023601_LP 2021-02-26.DWG
LAYOUT NAME - 023602_lp - 70

PLOT DATE : 10/15/2021 1:11 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

HL-40-BS	
A,B,C,D,E	BLACK
A,B,C,D,E	30 A
480VAC 2 WIRE GROUNDED NEUTRAL	

N

W BURLEIGH ST.

179+73, 305' LT
LED-C-5(T)-6-EBS4

179+23, 217' LT
LED-C-5(T)-6-FBS4

178+17, 204' LT
LED-C-5(T)-6-EBS5

#8 D,N

181+63, 202' LT
LED-C-5(T)-6-FBS3

183+43, 197' LT
LED-C-5(T)-6-EBS3

184+92, 169' LT
LED-C-5(T)-6-FBS2

186+41, 138' LT
LED-C-5(T)-6-EBS2

187+90, 117' LT
LED-C-5(T)-12-FBS1

189+61, 112' LT
LED-D-E(T)-20-EBS1

187+39
LED-D-A(T)-4-BBS2

190+14
LED-D-A(T)-4-ABS1

179+13
LED-D-A(T)-4-ABS5

181+62
EX. LPB-BS-5

181+94
LED-D-E(A)-8-BBS4

182+33
EX. LPB-BS-4

184+71
LED-D-A(T)-4-ABS3

MATCHLINE STA 489+50

IH 41 / USH 45

MATCHLINE STA 191+25

LED-D-A(T)-4-BBS5

LED-D-E(A)-8-ABS4

LED-D-A(T)-4-BBS3

LED-D-A(T)-4-ABS2

LED-D-A(T)-4-BBS1

#10 E,N

#8 E,N

3"

187+54, 116' RT
LED-C-5(T)-6-DBS7

185+60, 148' RT
LED-C-5(T)-6-CBS7

189+68, 100' RT
LED-C-5(T)-6-CBS8

182+48, 192' RT
LED-C-5(T)-6-CBS6

183+69, 182' RT
LED-C-5(T)-6-DBS6

179+44, 208' RT
LED-C-5(T)-6-CBS5

181+97, 229' RT
DISTRIBUTION
HL-40-BS

#10 E,N
3-10 PCBS

181+64, 262' RT
LED-C-5(T)-6-DBS5

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET E

PRE_94

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023601_LP 2021-02-26.DWG
LAYOUT NAME - 023603_lp - 70
PLOT DATE : 10/15/2021 1:12 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MATCHLINE STA 191+25

193+08
LED-D-E(A)-8-BCC3

195+50

195+86
LED-D-E(A)-8-ACC4

198+67
LED-D-E(A)-8-BCC5

201+45
LED-D-A(T)-4-ACC6
S-40-237 SB
NO SIGN LIGHTING

204+24
LED-D-F(A)-8-DCC1

203+13, 1' RT
EX. LJB-CC-7A

IH 41 / USH 45

194 196 198 200 202

IH 41 / USH 45

MATCHLINE STA 205+50

LED-D-E(A)-8-ACC3

LED-D-E(A)-8-BCC4

LED-D-E(A)-8-ACC5

203+08, 70' RT
EX. LPB-CC-7B

LED-D-F(A)-8-CCC1

202+03, 134' RT
DISTRIBUTION
CENTER
HL-40-CC

202+84, 144' RT
EX. LPB-CC-7A

LED-D-A(T)-4-BCC6
S-40-237 NB
NO SIGN LIGHTING

HL-40-CC	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30 A
120/240VAC 3 WIRE GROUNDED NEUTRAL	

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET E

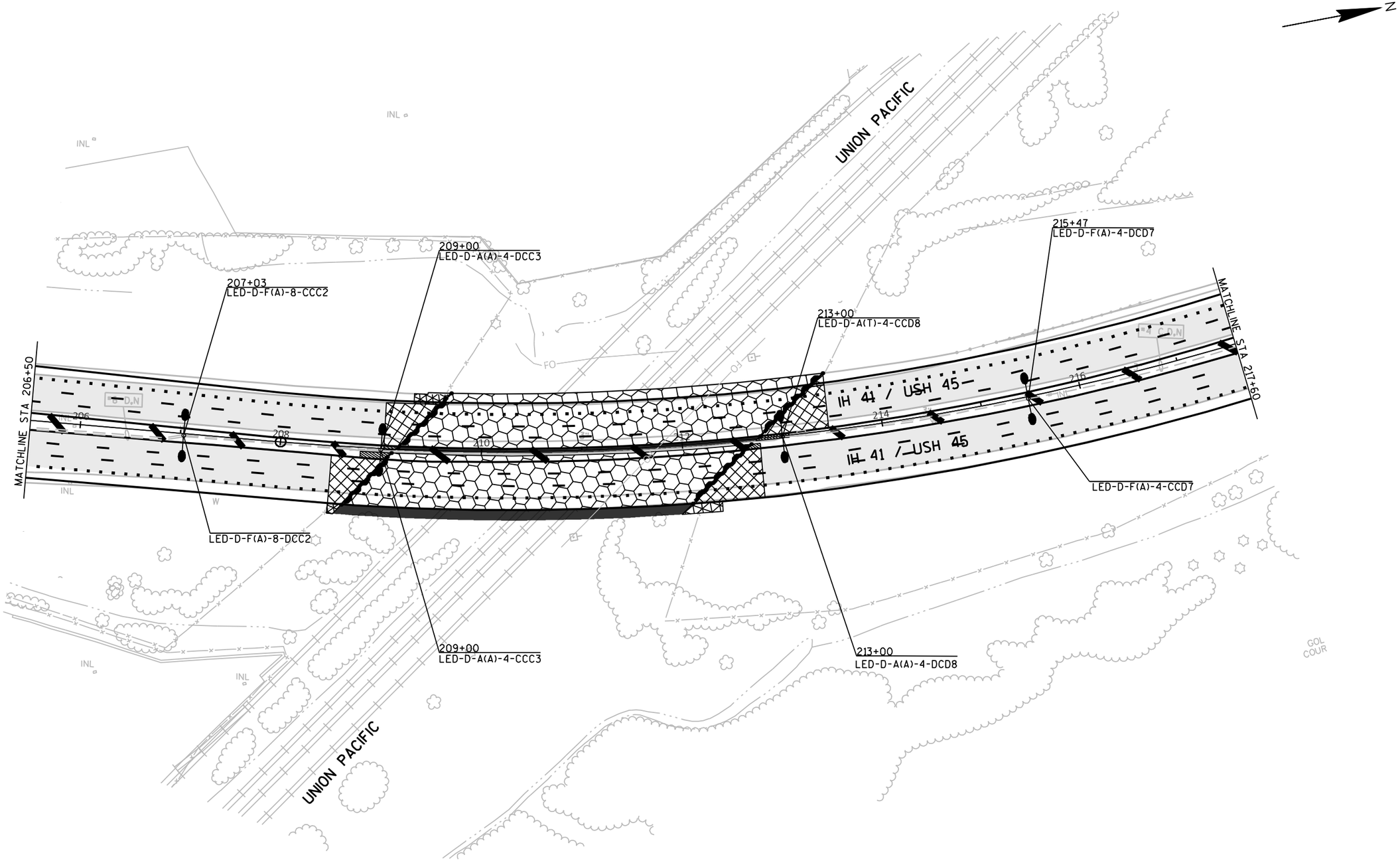
PRE_95

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023601_LP 2021-02-26.DWG
LAYOUT NAME - 023604_lp - 70

PLOT DATE : 10/15/2021 1:12 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET E

PRE_96

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023601_LP 2021-02-26.DWG
LAYOUT NAME - 023605_lp - 70

PLOT DATE : 10/15/2021 1:13 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MH

INL

W

T

221+10
LED-D-F-4-ACD5

222+43, 97' LT
LED-D-E(T)-15-FCD3

224+43, 95' LT
LED-C-5(T)-6-ECD3

226+42, 102' LT
LED-C-5(T)-6-FCD2

228+43, 108' LT
LED-C-5(T)-6-ECD2

230+43, 111' LT
LED-C-5(T)-6-FCD1

218+39
LED-D-F(A)-4-BCD6

#8 6,N

226+56
LED-D-F-4-ACD3

229+29
LED-D-F-4-BCD2

223+85
LED-D-F-4-BCD4

#8-6-8 C,N,D

#8-6-8 C,N,D

IH 41 / USH 45

IH 41 / USH 45

LED-D-F-4-ACD4

LED-D-F-4-BCD3

LED-D-F-4-ACD2

MATCHLINE STA 217+60

MATCHLINE STA 230+50

218

220

222

224

226

228

230

3"

222+23, 69' RT
LED-D-E(T)-15-HCD3

224+22, 71' RT
LED-C-5(T)-6-GCD3

226+22, 90' RT
LED-C-5(T)-6-HCD2

228+23, 101' RT
LED-C-5(T)-6-GCD2

230+23, 108' RT
LED-C-5(T)-6-HCD1

LED-D-F(A)-4-ACD6

LED-D-F-4-BCD5

221+01, 74' RT

GOLF GREEN

GOLF GREEN

F
SE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET E

PRE_97

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023601_LP 2021-02-26.DWG
LAYOUT NAME - 023606_lp - 70

PLOT DATE : 10/15/2021 1:14 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MATCHLINE STA 116+70

233+52, 417' LT
LED-C-5(T)-6-ECD1

233+43, 312' LT
LED-C-5(S)-10/15-FCD5

233+26, 146' LT
LED-C-5(T)-6-ECD4/FCD4

232+43, 171' LT
LED-C-5(T)-6-ECD1

*8 6,N

234+45, 399' LT
LED-C-5(T)-6-CCD5

234+28, 296' LT
LED-C-5(S)-10/15-CCD4/DCD4

234+13, 141' LT
LED-C-5(S)-10/15-DCD3/CCD3

W CAPITAL DR.

DISTRIBUTION CENTER
HL-40-CD

A/B/N/G
J/K/N/G

C/D/N/G
E/F/N/G
G/H/N/G

234+95, 170' LT
LED-C-5(T)-6-CCD1

2-*8AWG
CID

*8 5,N

236+81, 119' LT
LED-C-5(T)-6-DCD1

238+72, 114' LT
LED-C-5(T)-6-CCD2

240+71, 88' LT
LED-C-5(T)-6-DCD2

HL-40-CD	
A,C,C,G,J B,D,F,H,K N GND	RED BLACK WHITE GREEN OR BARE
A,C,C,G,J B,D,F,H,K	30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

2-*8AWG
CID

PB109

PB110

8-8
CIRC 8

8-8
CIRC 6

8-8
CIRC 8

*8 6,N

235+04
LED-D-F-4-ACD6

237+26
LED-D-F-4-BCD7

239+69
LED-D-F-4-ACD8

242+00
LED-D-F-4-ACD8

RW-40-41

*6-2-6 A,N,B

IH 41 / USH 45

*6-2-6
CIRC6/8

*6-2-6
C,N,D

6-6
CIRC 8

MATCHLINE STA 232+25

RW-40-47
6-2-6 C,N,D

1 RWC
232+16
LED-D-F-4-ACD1

LED-C-5(T)-6-BCD1

RW-40-48

RW-40-45

LED-D-F-4-ACD7

LED-D-F-4-BCD6

LED-D-F-4-ACD7

MATCHLINE STA 243+25

PB112

6-6
CIRC 8

6-6
CIRC 7

PB114

234+59, 134' RT
LED-C-5(T)-6-JCD1

236+89, 108' RT
LED-C-5(T)-6-KCD1

239+01, 111' RT
LED-C-5(T)-6-JCD2

241+11, 110' RT
LED-C-5(T)-6-KCD2

243+01, 111' RT
LED-C-5(T)-6-JCD3

232+23, 151' RT
LED-C-5(T)-6-GCD1

233+94, 142' RT
LED-C-5(S)-10/15-KCD16/JCD16

233+07, 139' RT
LED-C-5(T)-6-GCD4/HCD4

MATCHLINE STA 124+00

CEMETER

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET E

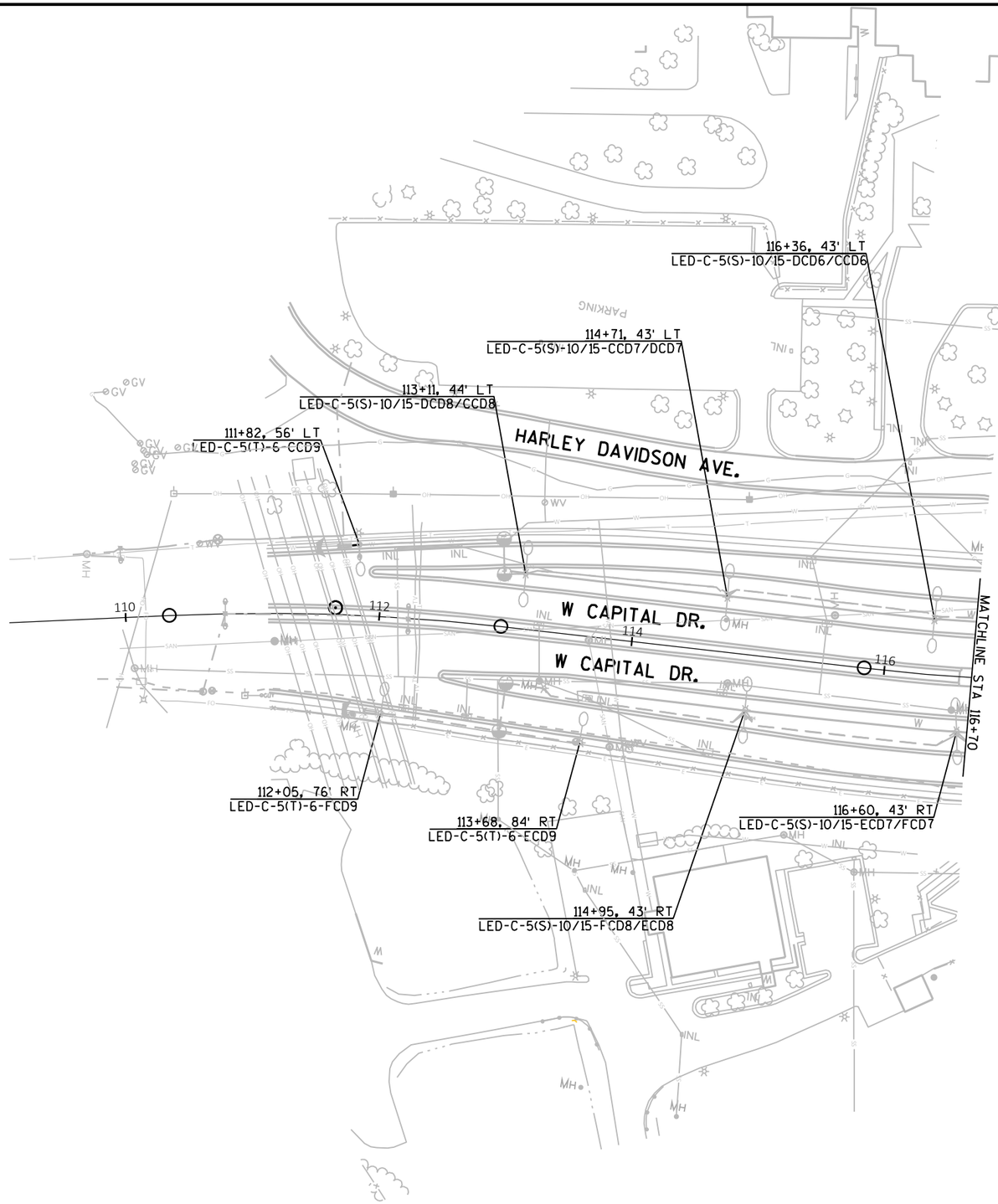
PRE_98

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023601_LP 2021-02-26.DWG
LAYOUT NAME - 023607_lp - 70

PLOT DATE : 10/15/2021 1:14 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET E

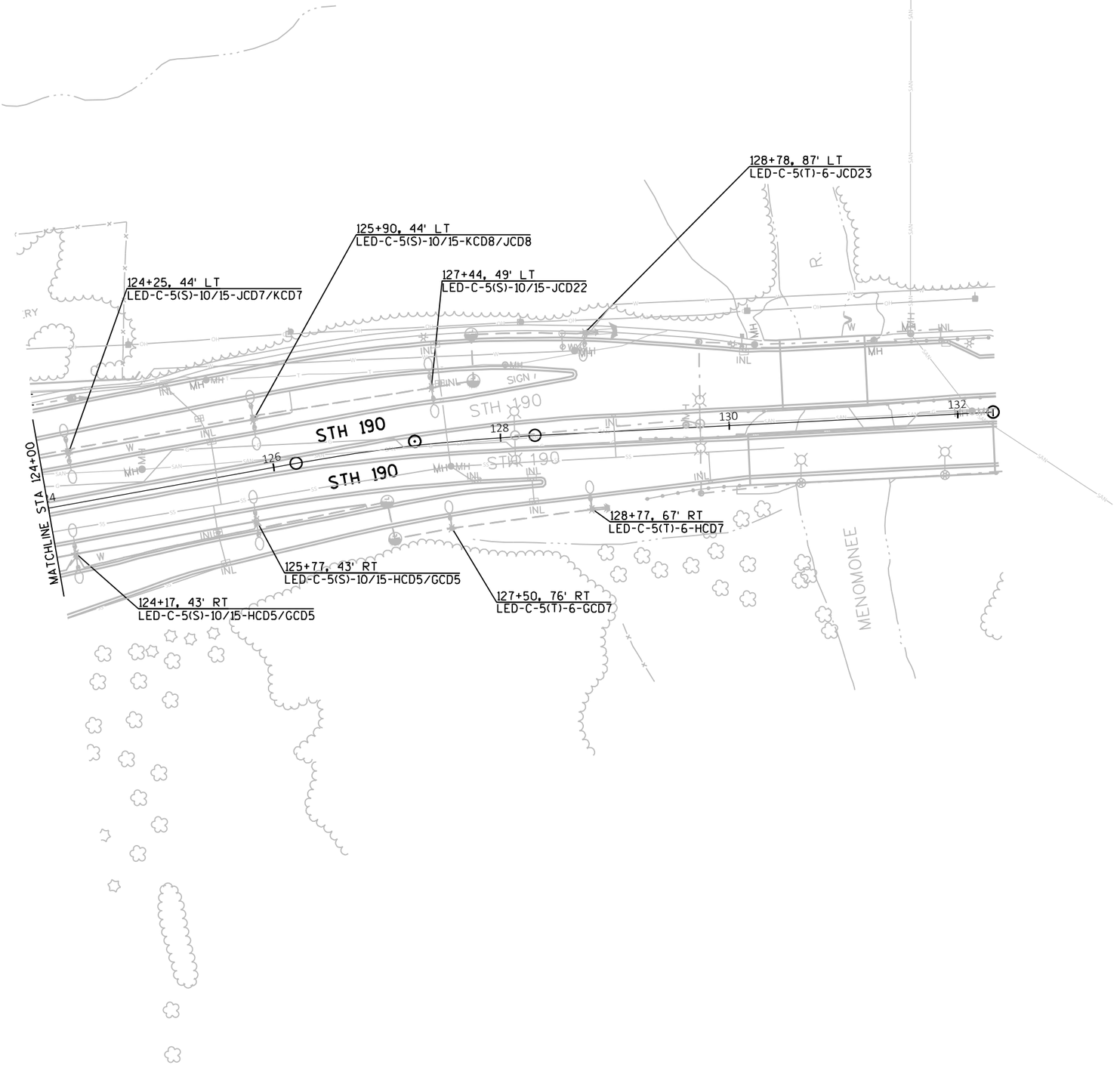
PRE_99

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023601_LP 2021-02-26.DWG
LAYOUT NAME - 023608_lp - 70

PLOT DATE : 10/15/2021 1:15 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET E

PRE_100

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023601_LP 2021-02-26.DWG
LAYOUT NAME - 023609_lp - 70
PLOT DATE : 10/15/2021 1:16 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

244+36
LED-D-F-4-ACD10

246+77
LED-D-F-4-BCD11

249+11
LED-D-F-4-ACD12

251+48
LED-D-E(A)-8-DHM14

254+23
LED-D-E(A)-8-EHM13

MATCHLINE STA 243+25

MATCHLINE STA 256+50

*8-6-8 A,N,B

RPB8A
JB8B

3"

244

246

248

250

252

254

256

IH 41 / USH 45

LED-B-F-4-BCD10

LED-D-F-4-ACD11

LED-D-F-4-BCD12

LED-D-E(A)-8-EHM14

LED-D-E(A)-8-DHM13

255+07, 95' RT
S-40-370

245+01, 116' RT
LED-C-5(T)-6-KCD3

247+01, 106' RT
LED-C-5(T)-6-JCD4

248+88, 102' RT
LED-C-5(T)-6-KCD3

250+89, 88' RT
LED-C-5(T)-6-JCD5

252+88, 91' RT
LED-C-5(T)-6-KCD5

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	LIGHTING PLAN - PROPOSED	SHEET E

PRE_101

FILE NAME : W:\PROJECTS\19254\1100-20-00\05_CADD\CADD DRAWINGS\023601_LP 2021-02-26.DWG
LAYOUT NAME - 023610_lp - 70

PLOT DATE : 10/15/2021 4:52 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 4-INCH YELLOW
2. MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH WHITE DASHED (12.5' LINE AND 37.5' SKIP)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (3' LINE AND 9' SKIP)
6. MARKING DIAGONAL EPOXY 12-INCH, WHITE
7. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8. MARKING DIAGONAL EPOXY 24-INCH, WHITE
9. PAVEMENT MARKING EPOXY, HOV SYMBOL, WHITE
10. MARKING LINE CROSSWALK EPOXY 6-INCH
11. MARKING STOP LINE, 18-INCH
12. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (2' LINE AND 6' SKIP)

BURLEIGH SB ENTRANCE RAMP

SB IH 41 45

NB IH 41 45

164 166 168 170 172 174 176 178

BURLEIGH NB EXIT RAMP

BEGIN PROJECT
STA 165+53.32
X = 566,856.73
Y = 311,394.33

N 114th ST.

W LOCUST ST.

WATER TOWER

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET E

PRE_102

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_024501-PM.DWG
LAYOUT NAME - 024502-pm

PLOT DATE : 9/24/2021 11:25 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

EB BURLEIGH ST

WB BURLEIGH ST

BURLEIGH SB EXIT RAMP

BURLEIGH NB ENTRANCE RAMP

SB IH 41

NB IH 41

"BRJ"+79.68
-75.40'LT

"BRJ"+29.58
-53.73'LT

"BRJ"+11.78
-38.44'LT

"BRJ"+50.34
53.94'RT

"BRJ"+03.49
-16.46'LT

"BRJ"+03.69
-10.94'LT

"BRJ"+51.12
12.68'RT

"BRJ"+80.95
7.69'RT

"BRJ"+81.07
19.20'RT

8"BRJ"

10"BRJ"

12"BRJ"

14"BRJ"

16"BRJ"

18"BRJ"

6"BRJ"

WATER TOWER

LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 4-INCH YELLOW
2. MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH WHITE DASHED (12.5' LINE AND 37.5' SKIP)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (3' LINE AND 9' SKIP)
6. MARKING DIAGONAL EPOXY 12-INCH, WHITE
7. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8. MARKING DIAGONAL EPOXY 24-INCH, WHITE
9. PAVEMENT MARKING EPOXY, HOV SYMBOL, WHITE
10. MARKING LINE CROSSWALK EPOXY 6-INCH
11. MARKING STOP LINE, 18-INCH
12. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (2' LINE AND 6' SKIP)

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET PRE_103 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_024501-PM.DWG
LAYOUT NAME - 024503-pm

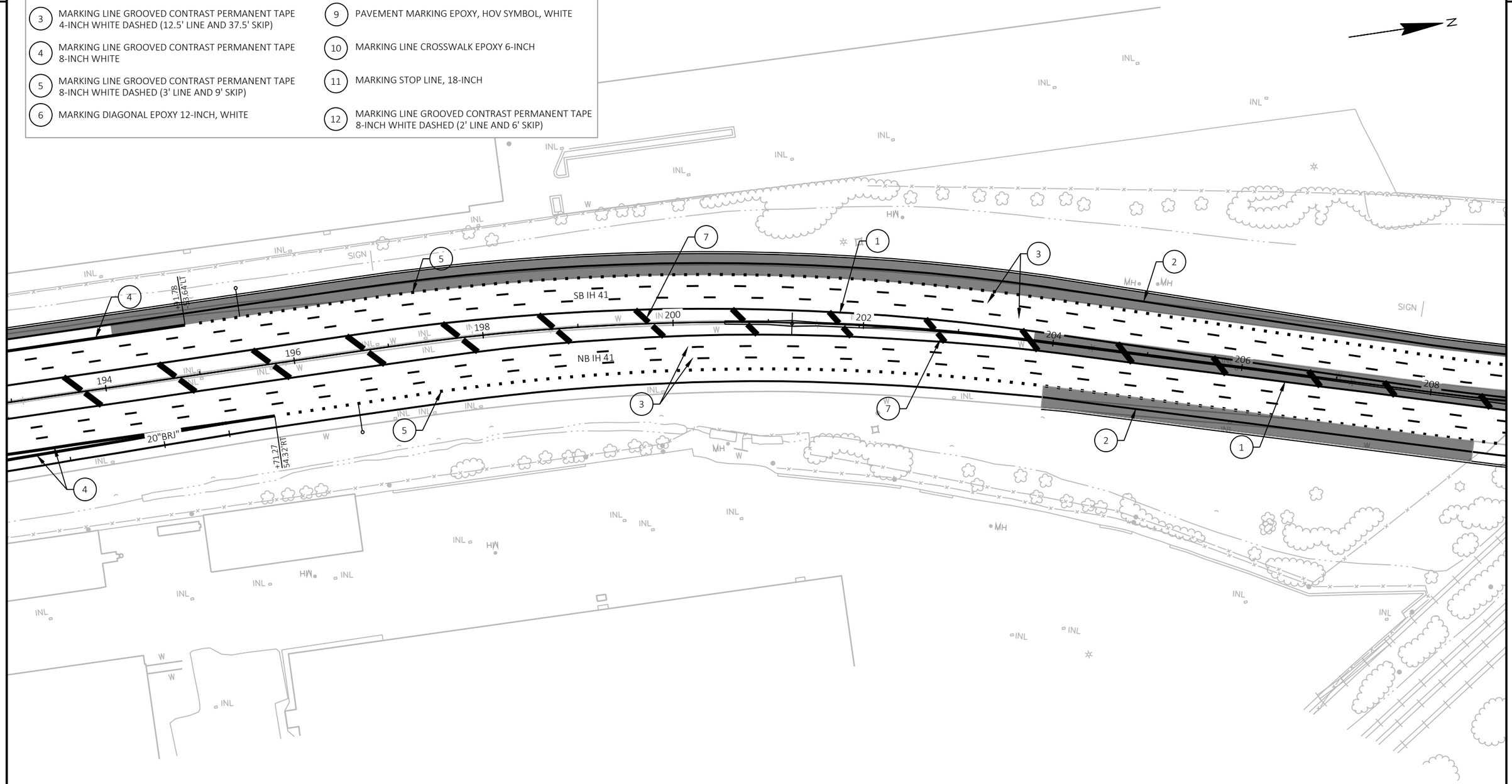
PLOT DATE : 9/24/2021 11:26 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 4-INCH YELLOW
2. MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH WHITE DASHED (12.5' LINE AND 37.5' SKIP)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (3' LINE AND 9' SKIP)
6. MARKING DIAGONAL EPOXY 12-INCH, WHITE
7. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8. MARKING DIAGONAL EPOXY 24-INCH, WHITE
9. PAVEMENT MARKING EPOXY, HOV SYMBOL, WHITE
10. MARKING LINE CROSSWALK EPOXY 6-INCH
11. MARKING STOP LINE, 18-INCH
12. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (2' LINE AND 6' SKIP)



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_024501-PM.DWG
LAYOUT NAME - 024504-pm

PLOT DATE : 9/24/2021 11:27 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_104

WISDOT/CADDS SHEET 42

2

LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 4-INCH YELLOW
2. MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH WHITE DASHED (12.5' LINE AND 37.5' SKIP)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (3' LINE AND 9' SKIP)
6. MARKING DIAGONAL EPOXY 12-INCH, WHITE
7. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8. MARKING DIAGONAL EPOXY 24-INCH, WHITE
9. PAVEMENT MARKING EPOXY, HOV SYMBOL, WHITE
10. MARKING LINE CROSSWALK EPOXY 6-INCH
11. MARKING STOP LINE, 18-INCH
12. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (2' LINE AND 6' SKIP)

N

WATER TOWER

SIGN

208 210 212 214 216 218 220 222

SB IH 41

NB IH 41

INL

+43.32 42.21 LT

+93.32 42.50 LT

+29.41 45.24 LT

+24.29 45.22 RT

UNION PACIFIC

GOLF GREEN

GOLF COURSE

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET E

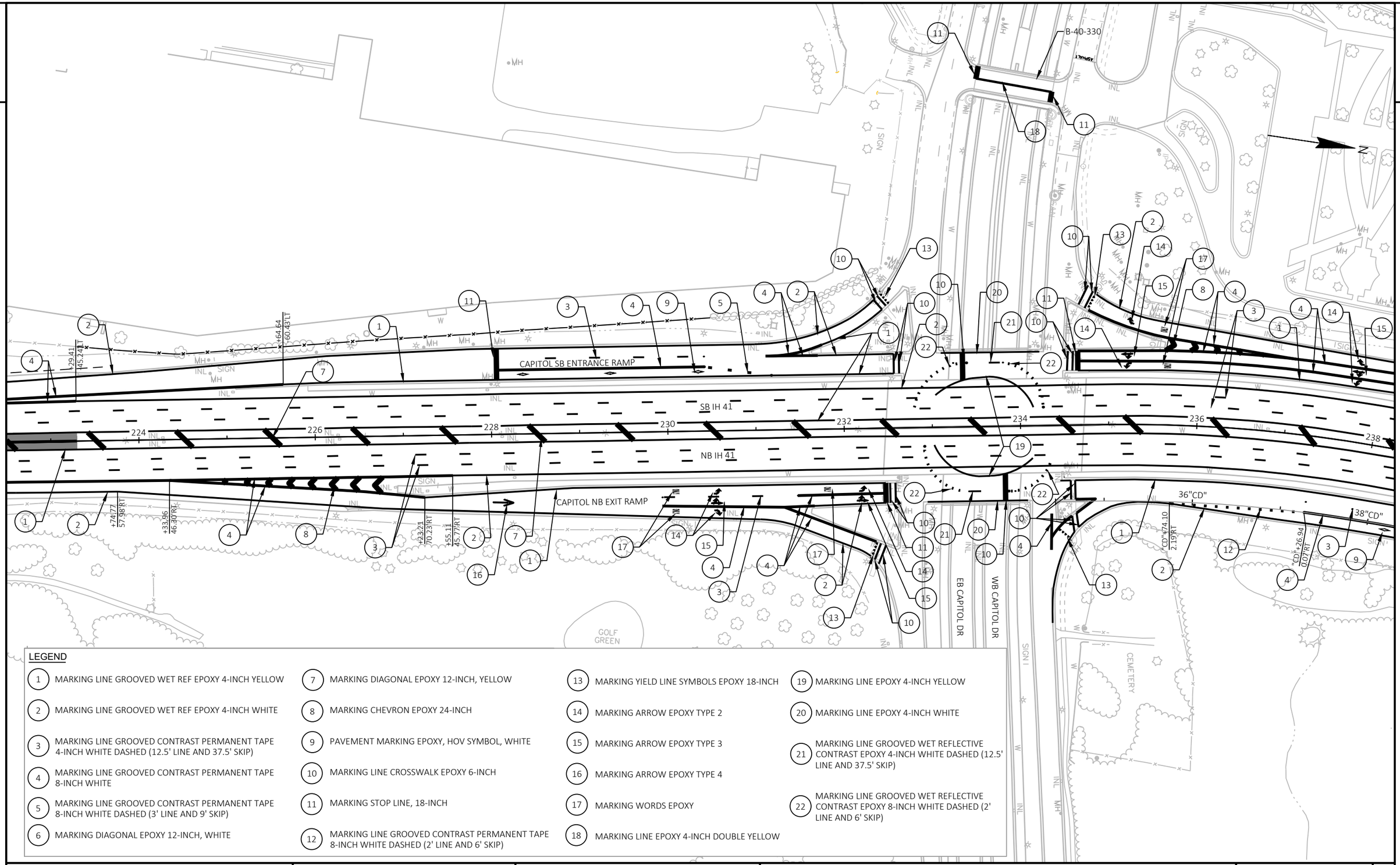
PRE_105

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_024501-PM.DWG
LAYOUT NAME - 024505-pm

PLOT DATE : 9/24/2021 11:28 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

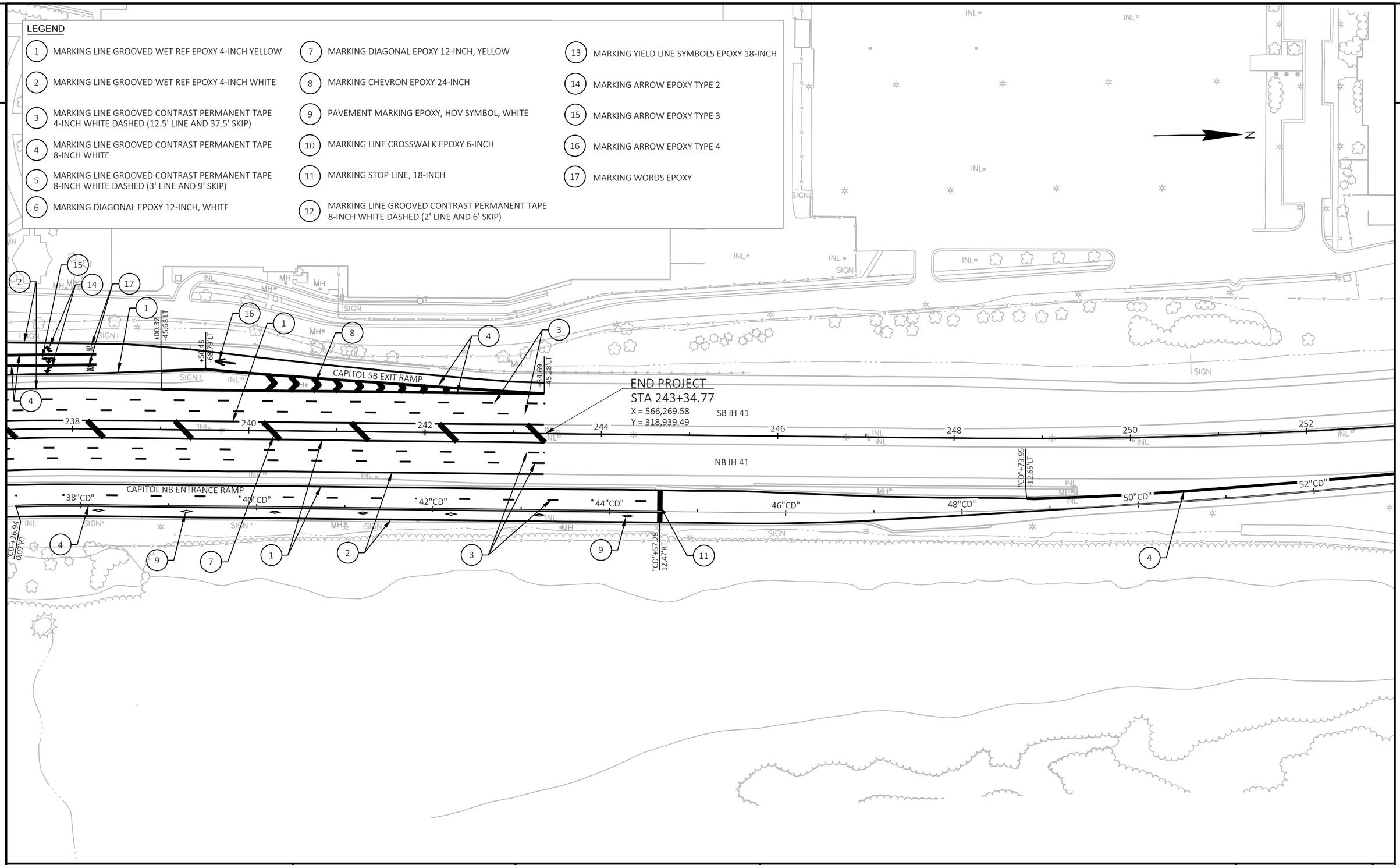
1. MARKING LINE GROOVED WET REF EPOXY 4-INCH YELLOW
2. MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH WHITE DASHED (12.5' LINE AND 37.5' SKIP)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (3' LINE AND 9' SKIP)
6. MARKING DIAGONAL EPOXY 12-INCH, WHITE
7. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8. MARKING CHEVRON EPOXY 24-INCH
9. PAVEMENT MARKING EPOXY, HOV SYMBOL, WHITE
10. MARKING LINE CROSSWALK EPOXY 6-INCH
11. MARKING STOP LINE, 18-INCH
12. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (2' LINE AND 6' SKIP)
13. MARKING YIELD LINE SYMBOLS EPOXY 18-INCH
14. MARKING ARROW EPOXY TYPE 2
15. MARKING ARROW EPOXY TYPE 3
16. MARKING ARROW EPOXY TYPE 4
17. MARKING WORDS EPOXY
18. MARKING LINE EPOXY 4-INCH DOUBLE YELLOW
19. MARKING LINE EPOXY 4-INCH YELLOW
20. MARKING LINE EPOXY 4-INCH WHITE
21. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH WHITE DASHED (12.5' LINE AND 37.5' SKIP)
22. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH WHITE DASHED (2' LINE AND 6' SKIP)

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET PRE_106 E

2

LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 4-INCH YELLOW
2. MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH WHITE DASHED (12.5' LINE AND 37.5' SKIP)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (3' LINE AND 9' SKIP)
6. MARKING DIAGONAL EPOXY 12-INCH, WHITE
7. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8. MARKING CHEVRON EPOXY 24-INCH
9. PAVEMENT MARKING EPOXY, HOV SYMBOL, WHITE
10. MARKING LINE CROSSWALK EPOXY 6-INCH
11. MARKING STOP LINE, 18-INCH
12. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (2' LINE AND 6' SKIP)
13. MARKING YIELD LINE SYMBOLS EPOXY 18-INCH
14. MARKING ARROW EPOXY TYPE 2
15. MARKING ARROW EPOXY TYPE 3
16. MARKING ARROW EPOXY TYPE 4
17. MARKING WORDS EPOXY



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET E

PRE_107

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_024501-PM.DWG
LAYOUT NAME - 024507-pm

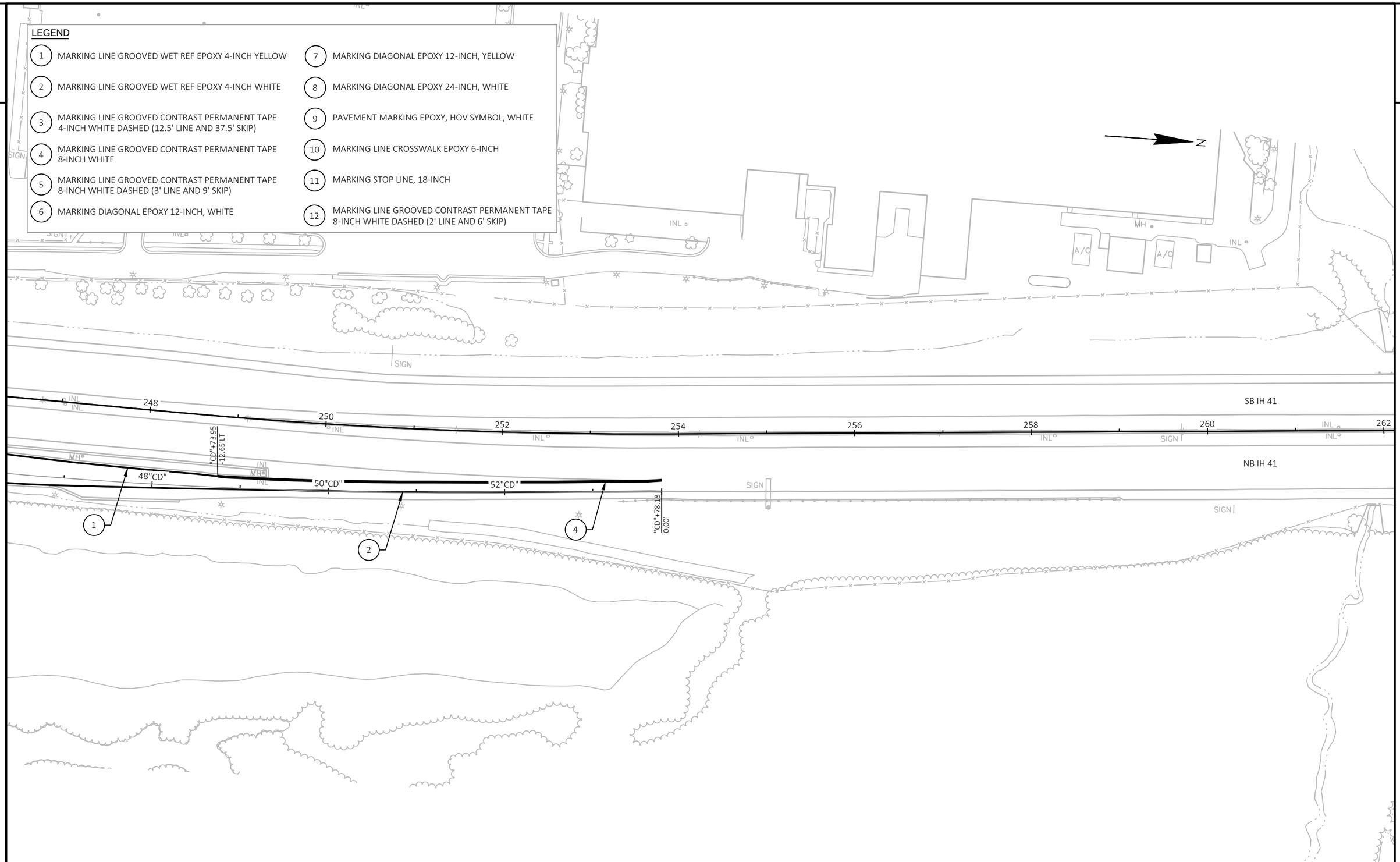
PLOT DATE : 9/24/2021 11:29 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 4-INCH YELLOW
2. MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH WHITE DASHED (12.5' LINE AND 37.5' SKIP)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (3' LINE AND 9' SKIP)
6. MARKING DIAGONAL EPOXY 12-INCH, WHITE
7. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8. MARKING DIAGONAL EPOXY 24-INCH, WHITE
9. PAVEMENT MARKING EPOXY, HOV SYMBOL, WHITE
10. MARKING LINE CROSSWALK EPOXY 6-INCH
11. MARKING STOP LINE, 18-INCH
12. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH WHITE DASHED (2' LINE AND 6' SKIP)



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET E

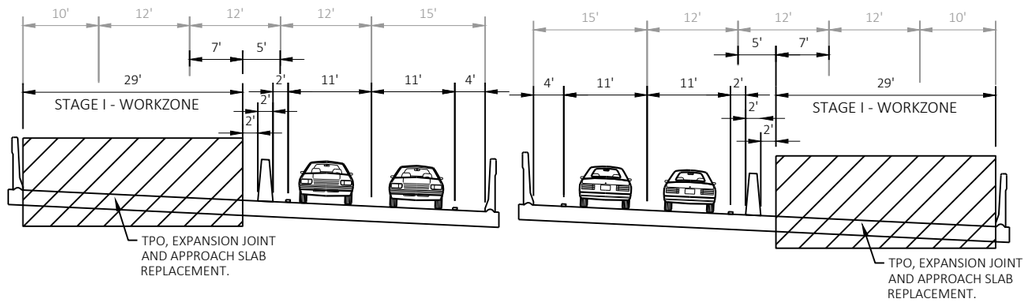
PRE_108

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_024501-PM.DWG
LAYOUT NAME - 024508-pm

PLOT DATE : 9/24/2021 11:30 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

TYPICAL SECTION A-A



DESCRIPTION

THIS STAGE IS USED FOR THE FOLLOWING:
- CONSTRUCTION OF AUXILIARY LANES.
- BASE PATCHING OF THE OUTSIDE LANE, OUTSIDE SHOULDER AND ANY ACCELERATION/DECELERATION LANES.
- BRIDGE OVERLAY
- EXPANSION JOINT REPLACEMENT
- APPROACH SLAB REPLACEMENT

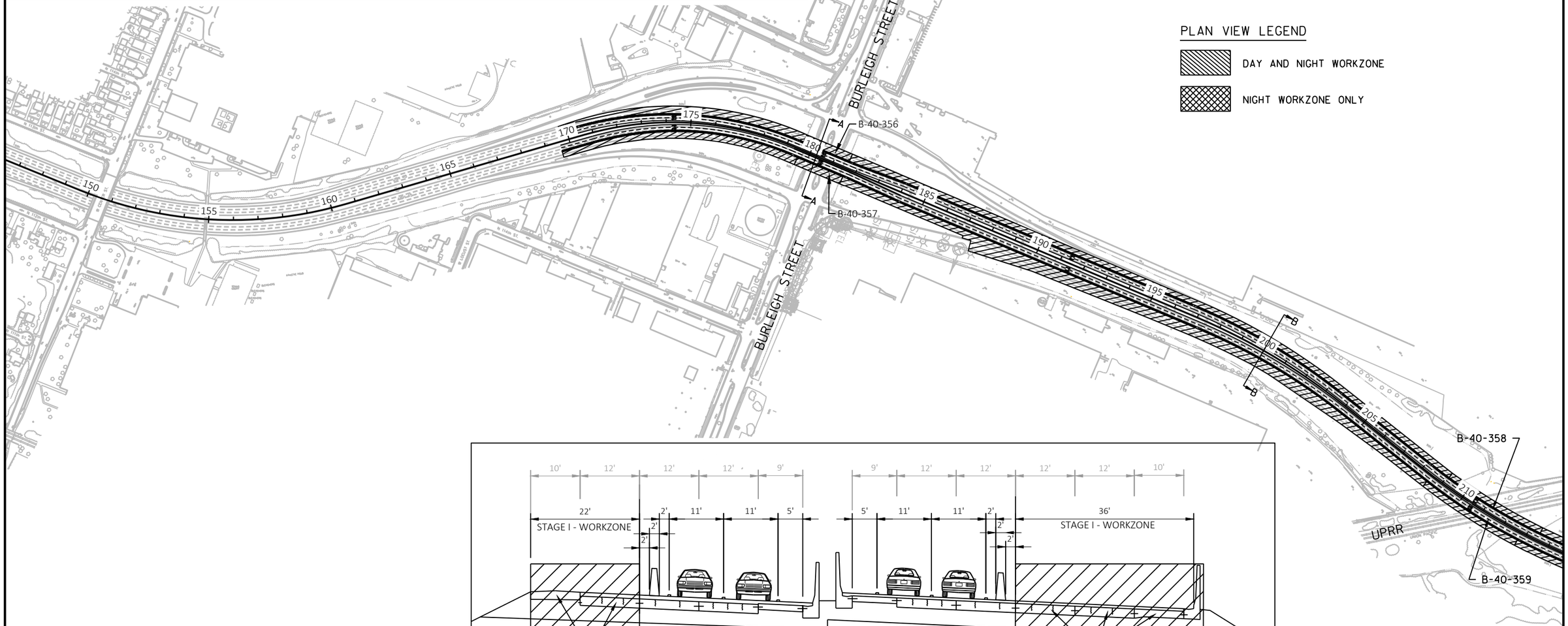
TRAFFIC

- TRAFFIC IS PUSHED TO THE INSIDE LANE AND SHOULDER.
- MIDDLE LANE, OUTSIDE LANE AND OUTSIDE SHOULDER ARE CLOSED.

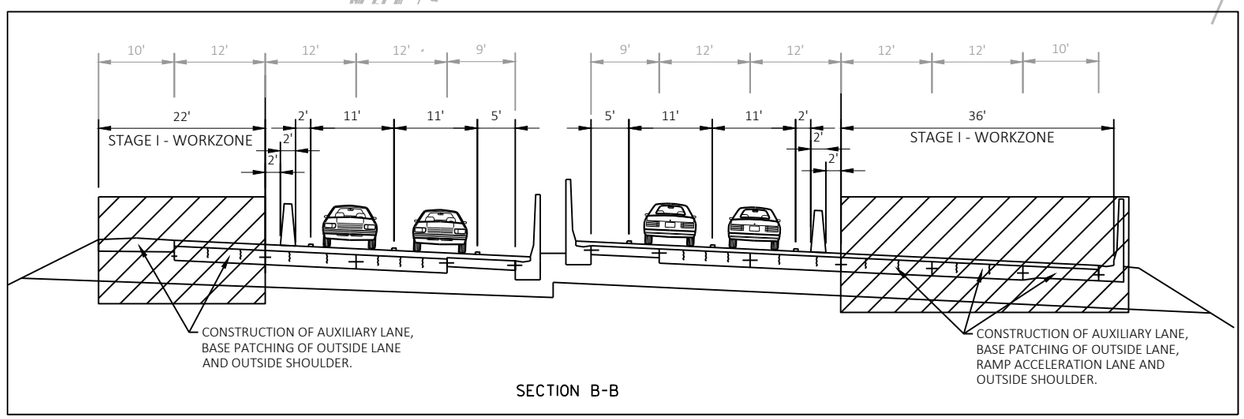
PLAN VIEW LEGEND

DAY AND NIGHT WORKZONE

NIGHT WORKZONE ONLY



SECTION B-B

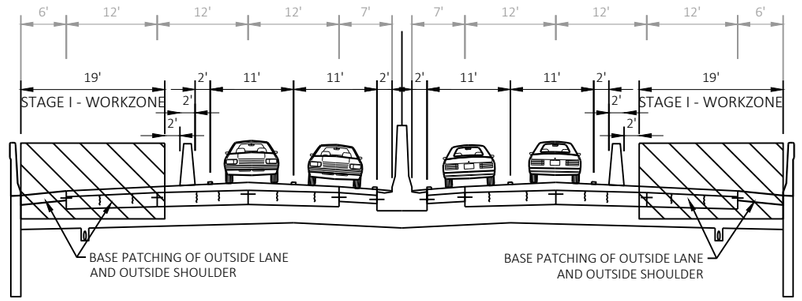


PROJECT NO: 1100-20-70	HWY: IH-41	COUNTY: MILWAUKEE	CONSTRUCTION OVERVIEW STAGE I	SHEET PR E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\1-TRAFFIC CONTROL\TRAFFIC CONTROL SHEETS\026001_STAGE 1.DWG
LAYOUT NAME - 026001_STAGE 1 - 025001
PLOT DATE : 7/15/2021 9:55 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:400 FT

2

TYPICAL SECTION E-E



DESCRIPTION

THIS STAGE IS USED FOR THE FOLLOWING:
- CONSTRUCTION OF AUXILIARY LANES.
- BASE PATCHING OF THE OUTSIDE LANE, OUTSIDE SHOULDER AND ANY ACCELERATION/DECELERATION LANES.
- BRIDGE OVERLAY
- EXPANSION JOINT REPLACEMENT
- APPROACH SLAB REPLACEMENT

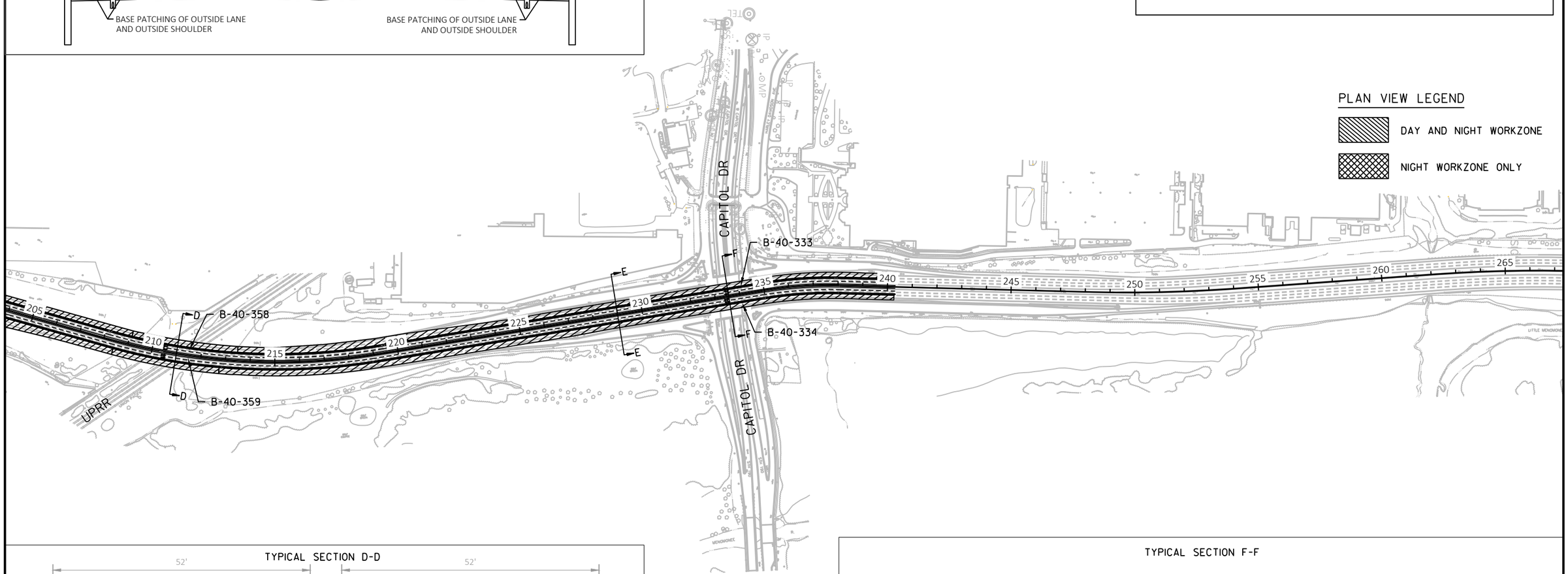
TRAFFIC

- TRAFFIC IS PUSHED TO THE INSIDE LANE AND SHOULDER.
- MIDDLE LANE, OUTSIDE LANE AND OUTSIDE SHOULDER ARE CLOSED.

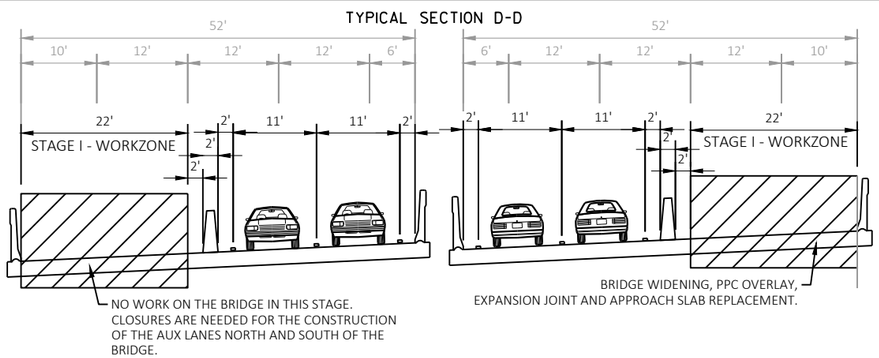
PLAN VIEW LEGEND

DAY AND NIGHT WORKZONE

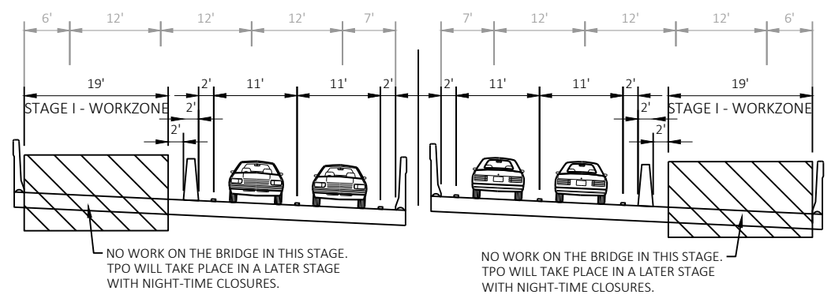
NIGHT WORKZONE ONLY



TYPICAL SECTION D-D



TYPICAL SECTION F-F

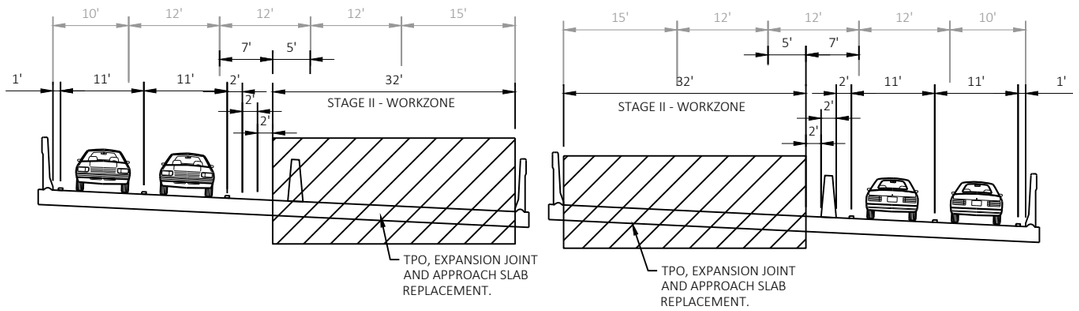


PROJECT NO: 1100-20-70	HWY: IH-41	COUNTY: MILWAUKEE	CONSTRUCTION OVERVIEW STAGE 1	SHEET PR E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\1-TRAFFIC CONTROL\TRAFFIC CONTROL SHEETS\026001_STAGE 1.DWG
LAYOUT NAME - 026001_STAGE 1 - 025002
PLOT DATE : 7/15/2021 9:58 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:400 FT

2

TYPICAL SECTION A-A



DESCRIPTION

THIS STAGE IS USED FOR THE FOLLOWING:
- REPLACEMENT OF THE MEDIAN SHOULDER.
- MEDIAN WORK (BARRIER, DRAINAGE, LIGHTING).
- WIDENING OF THE SB RAILROAD BRIDGE (INSIDE WIDENING).
- BASE PATCHING OF THE INSIDE LANE.
- BRIDGE OVERLAY
- EXPANSION JOINT REPLACEMENT
- APPROACH SLAB REPLACEMENT

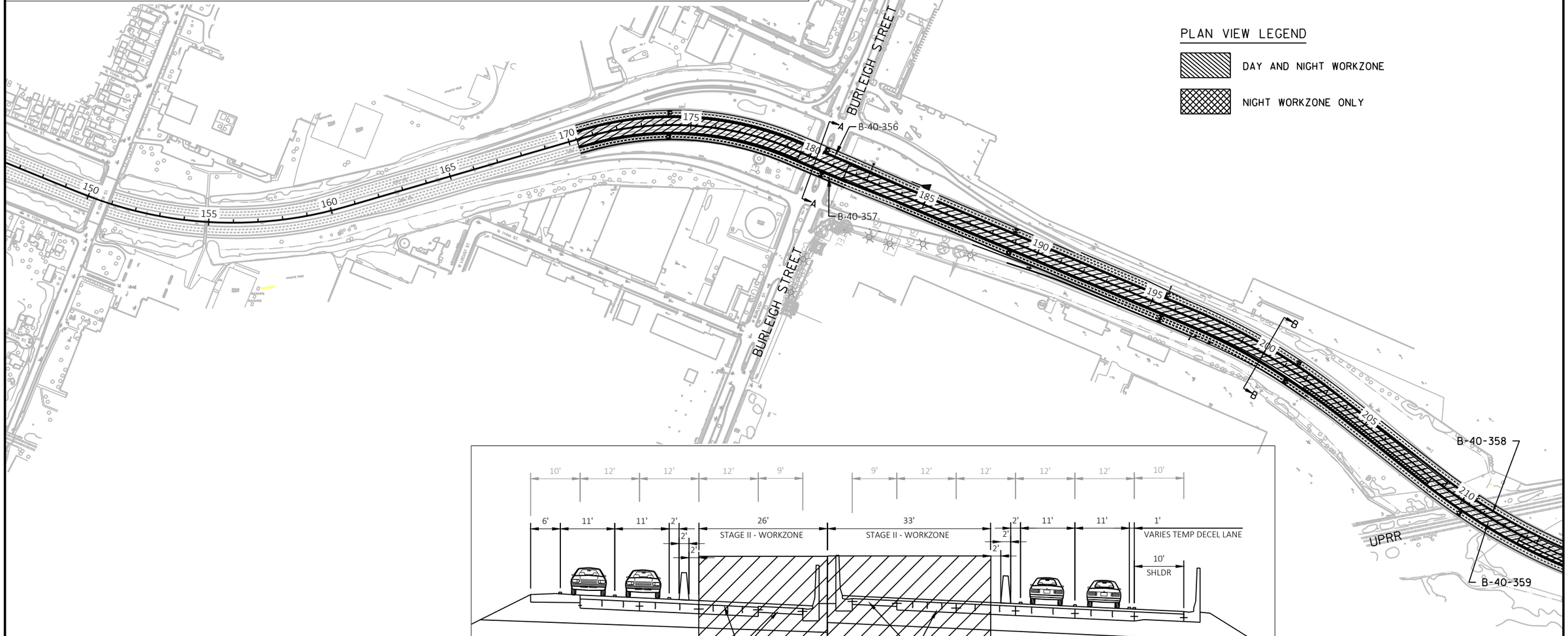
TRAFFIC

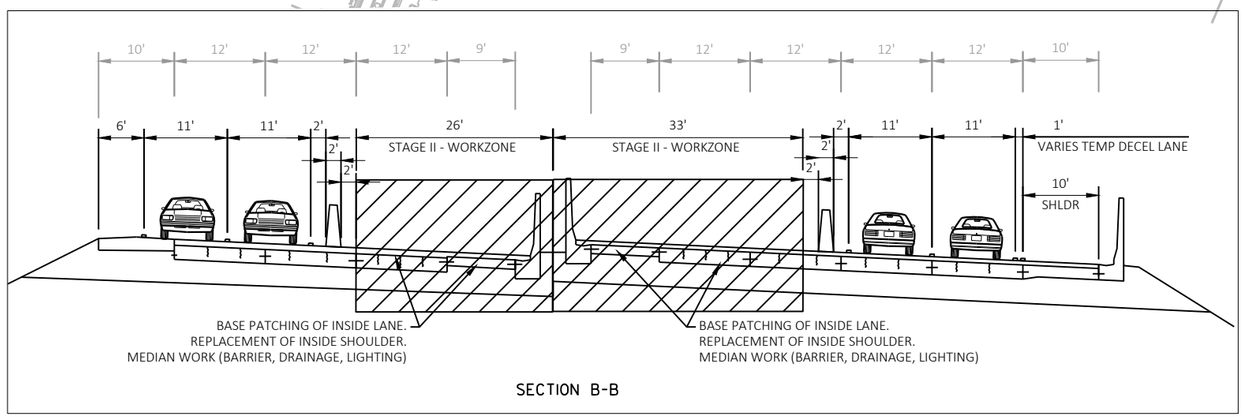
- TRAFFIC IS PUSHED TO THE OUTSIDE LANE AND SHOULDER.
- MIDDLE LANE, INSIDE LANE AND INSIDE SHOULDER ARE CLOSED.

PLAN VIEW LEGEND

DAY AND NIGHT WORKZONE

NIGHT WORKZONE ONLY





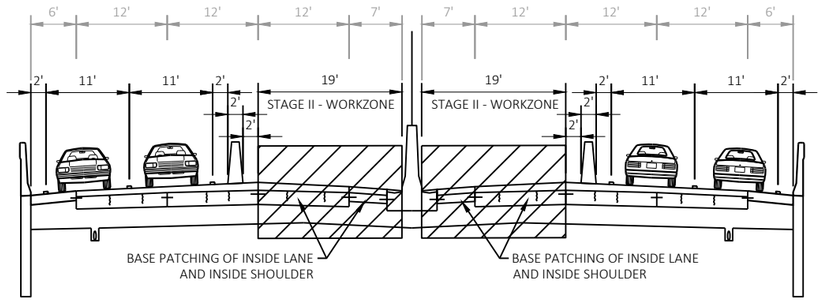
SECTION B-B

PROJECT NO: 1100-20-70	HWY: IH-41	COUNTY: MILWAUKEE	CONSTRUCTION OVERVIEW STAGE II	SHEET PR E

2

2

TYPICAL SECTION E-E



DESCRIPTION

THIS STAGE IS USED FOR THE FOLLOWING:
- REPLACEMENT OF THE MEDIAN SHOULDER.
- MEDIAN WORK (BARRIER, DRAINAGE, LIGHTING).
- WIDENING OF THE SB RAILROAD BRIDGE (INSIDE WIDENING).
- BASE PATCHING OF THE INSIDE LANE.
- BRIDGE OVERLAY
- EXPANSION JOINT REPLACEMENT
- APPROACH SLAB REPLACEMENT

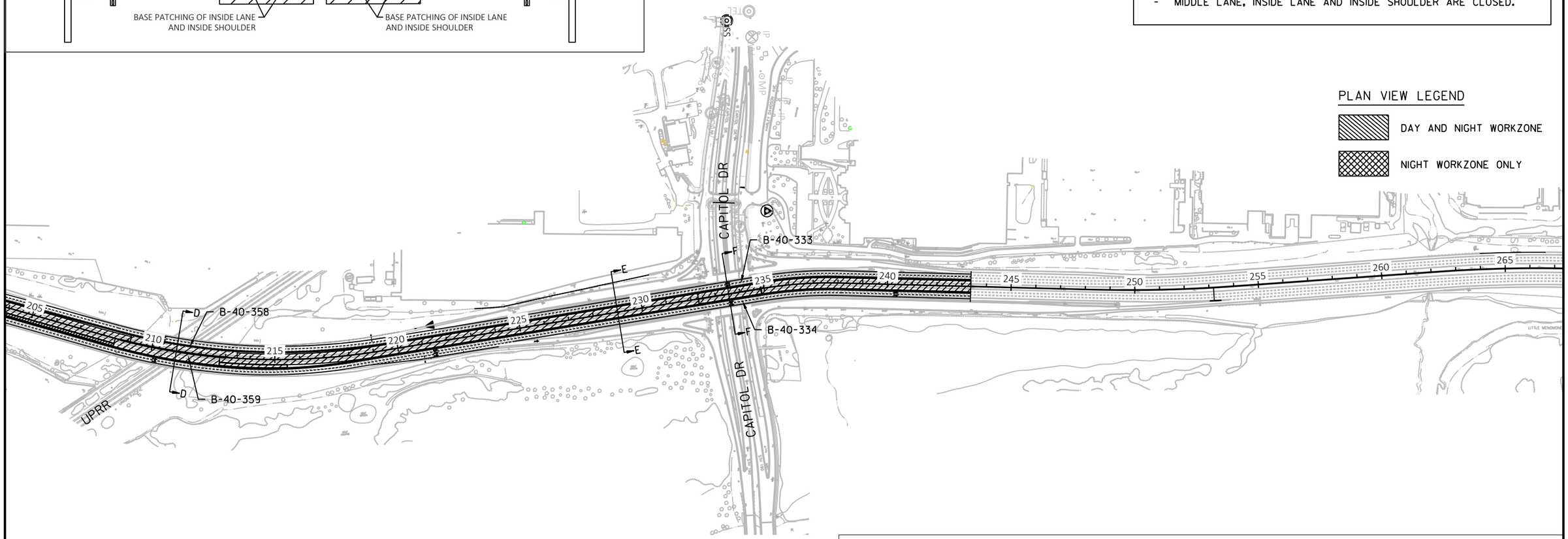
TRAFFIC

- TRAFFIC IS PUSHED TO THE OUTSIDE LANE AND SHOULDER.
- MIDDLE LANE, INSIDE LANE AND INSIDE SHOULDER ARE CLOSED.

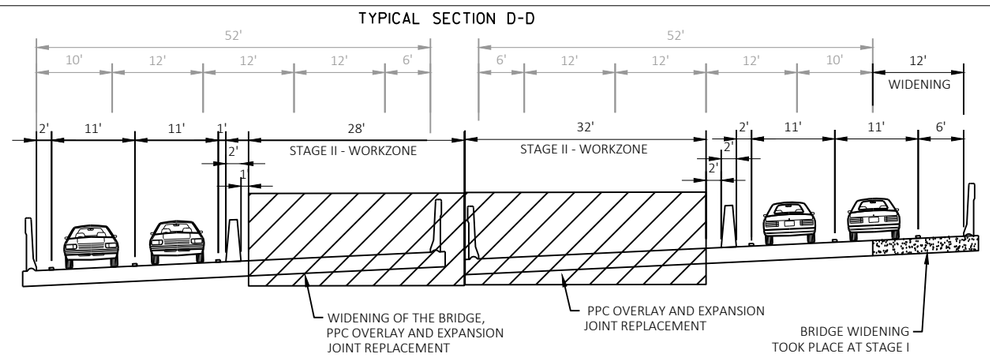
PLAN VIEW LEGEND

DAY AND NIGHT WORKZONE

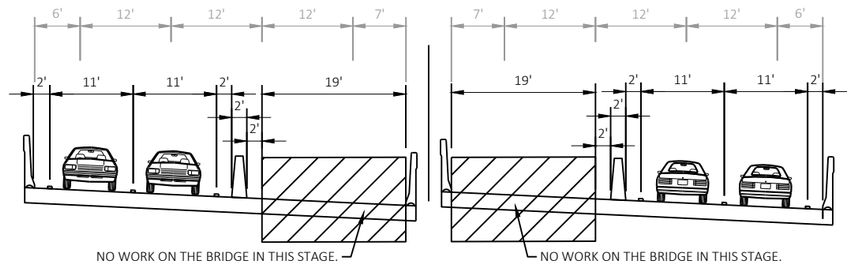
NIGHT WORKZONE ONLY



TYPICAL SECTION D-D



TYPICAL SECTION G-G



PROJECT NO: 1100-20-70	HWY: IH-41	COUNTY: MILWAUKEE	CONSTRUCTION OVERVIEW STAGE II	SHEET E

2

TYPICAL SECTION A-A

DESCRIPTION

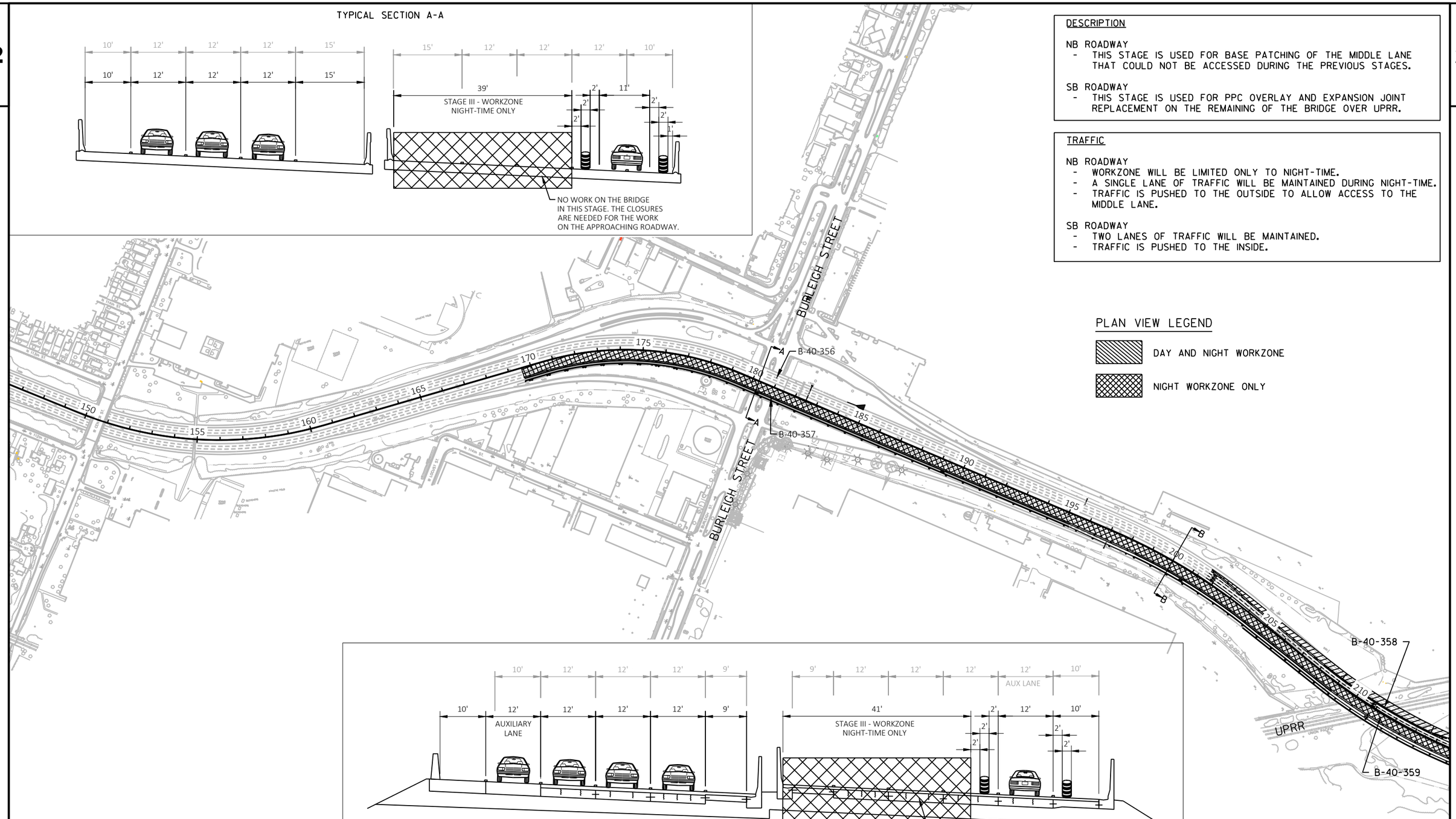
NB ROADWAY
- THIS STAGE IS USED FOR BASE PATCHING OF THE MIDDLE LANE THAT COULD NOT BE ACCESSED DURING THE PREVIOUS STAGES.

SB ROADWAY
- THIS STAGE IS USED FOR PPC OVERLAY AND EXPANSION JOINT REPLACEMENT ON THE REMAINING OF THE BRIDGE OVER UPRR.

TRAFFIC

NB ROADWAY
- WORKZONE WILL BE LIMITED ONLY TO NIGHT-TIME.
- A SINGLE LANE OF TRAFFIC WILL BE MAINTAINED DURING NIGHT-TIME.
- TRAFFIC IS PUSHED TO THE OUTSIDE TO ALLOW ACCESS TO THE MIDDLE LANE.

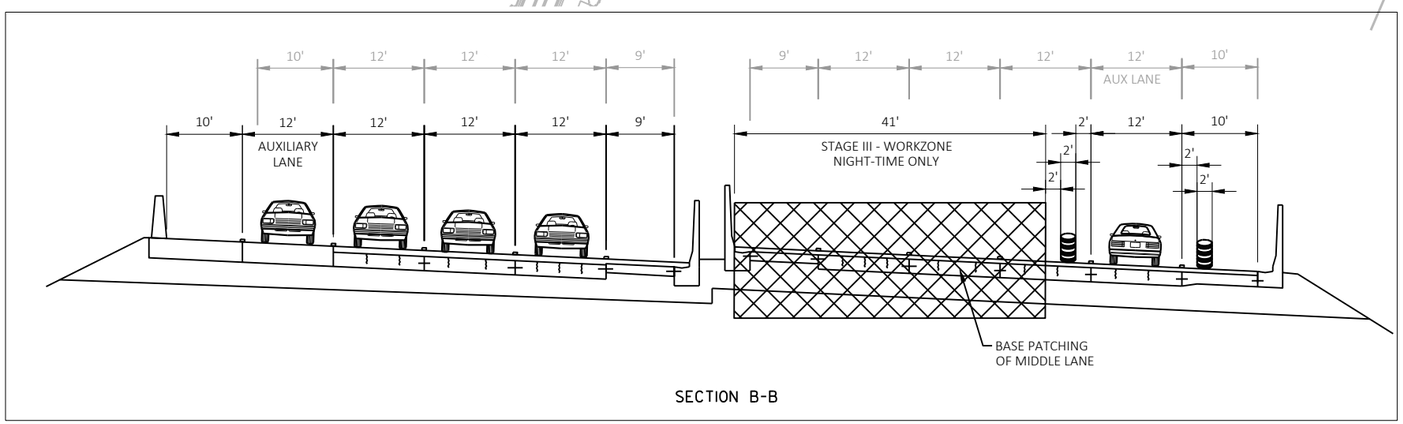
SB ROADWAY
- TWO LANES OF TRAFFIC WILL BE MAINTAINED.
- TRAFFIC IS PUSHED TO THE INSIDE.



PLAN VIEW LEGEND

DAY AND NIGHT WORKZONE

NIGHT WORKZONE ONLY

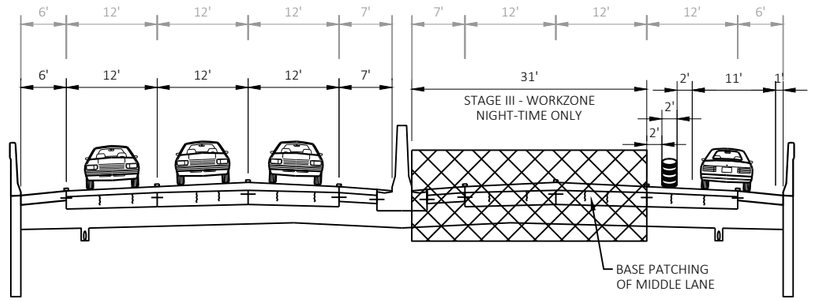


SECTION B-B

PROJECT NO: 1100-20-70	HWY: IH-41	COUNTY: MILWAUKEE	CONSTRUCTION OVERVIEW STAGE III	SHEET PR E

2

TYPICAL SECTION E-E



PLAN VIEW LEGEND

DAY AND NIGHT WORKZONE

NIGHT WORKZONE ONLY

DESCRIPTION

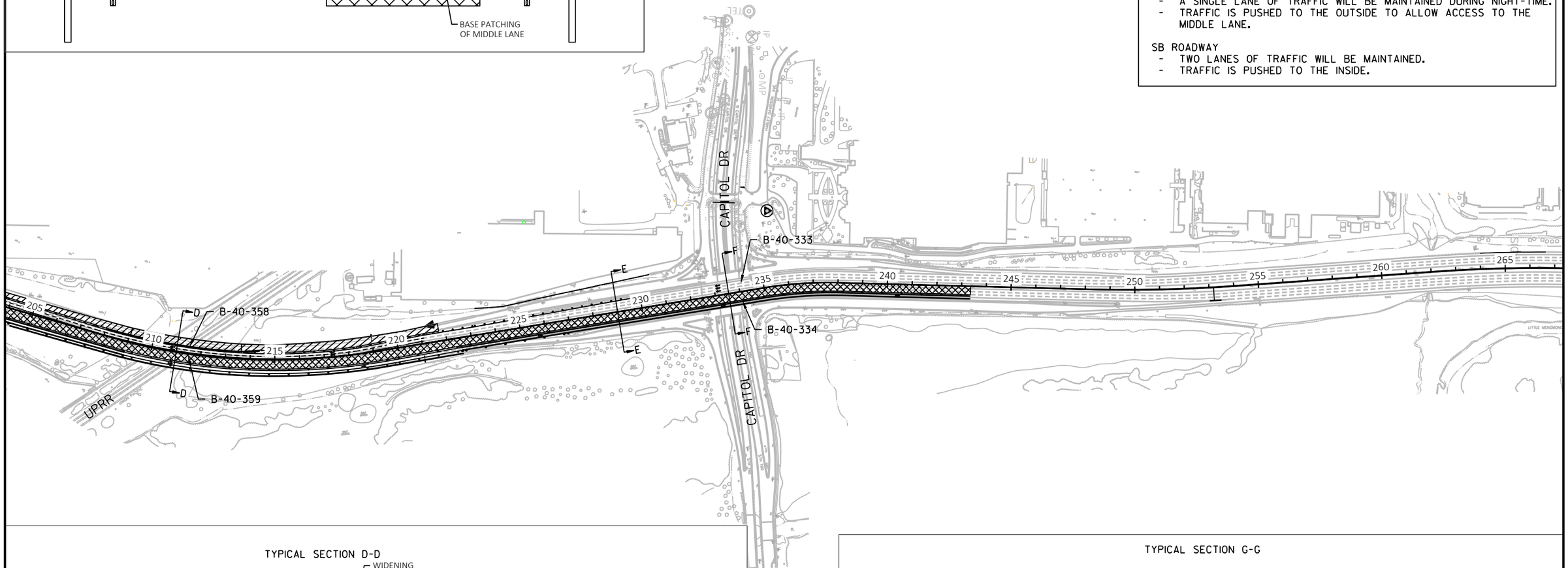
NB ROADWAY
- THIS STAGE IS USED FOR BASE PATCHING OF THE MIDDLE LANE THAT COULD NOT BE ACCESSED DURING THE PREVIOUS STAGES.

SB ROADWAY
- THIS STAGE IS USED FOR PPC OVERLAY AND EXPANSION JOINT REPLACEMENT ON THE REMAINING OF THE BRIDGE OVER UPRR.

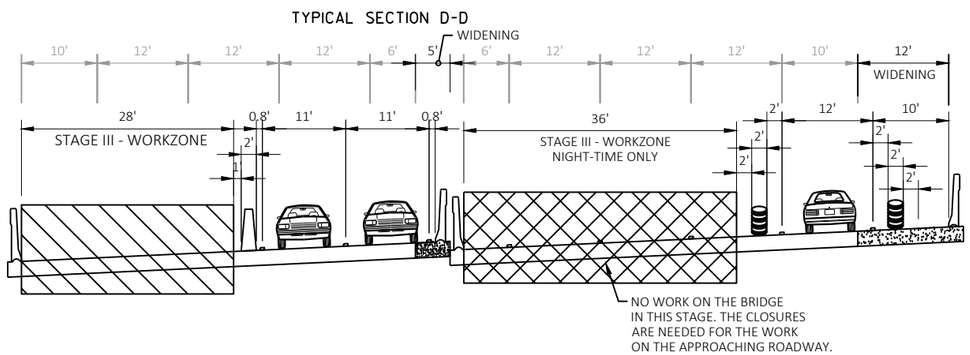
TRAFFIC

NB ROADWAY
- WORKZONE WILL BE LIMITED ONLY TO NIGHT-TIME.
- A SINGLE LANE OF TRAFFIC WILL BE MAINTAINED DURING NIGHT-TIME.
- TRAFFIC IS PUSHED TO THE OUTSIDE TO ALLOW ACCESS TO THE MIDDLE LANE.

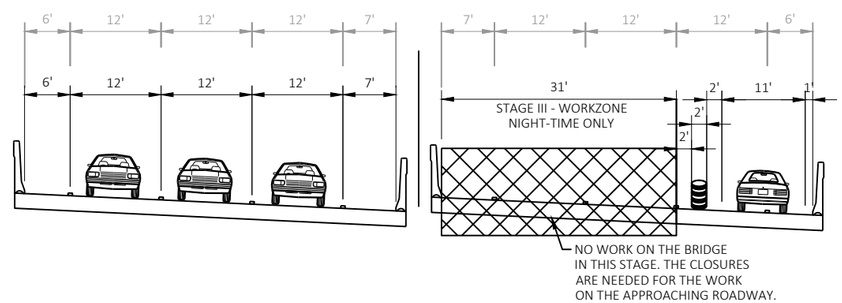
SB ROADWAY
- TWO LANES OF TRAFFIC WILL BE MAINTAINED.
- TRAFFIC IS PUSHED TO THE INSIDE.



TYPICAL SECTION D-D



TYPICAL SECTION G-G



PROJECT NO: 1100-20-70	HWY: IH-41	COUNTY: MILWAUKEE	CONSTRUCTION OVERVIEW STAGE III	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\1-TRAFFIC CONTROL\TRAFFIC CONTROL SHEETS\026003_STAGE 3.DWG
LAYOUT NAME - 026003_STAGE 3 - 025002
PLOT DATE : 7/15/2021 10:12 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 44

2

DESCRIPTION

- STAGE IIIA IS USED FOR BASE PATCHING OF THE MIDDLE LANE THAT COULD NOT BE ACCESSED DURING THE PREVIOUS STAGES.
- STAGE IV IS USED FOR PLACING THE FIRST LAYER OF HMA ON THE INSIDE SHOULDER, INSIDE LANE AND MIDDLE LANE.
- STAGE VIII IS USED FOR PLACING THE SECOND LAYER OF HMA ON THE INSIDE SHOULDER, INSIDE LANE AND MIDDLE LANE.
- STAGE IX IS USED FOR THE INSTALLATION OF THE FINAL PAVEMENT MARKINGS.
- THIN POLYMER OVERLAY FOR THE BURLEIGH ST AND CAPITOL DR BRIDGES CAN TAKE PLACE IN ANY OF STAGES IIA, IV OR IX.

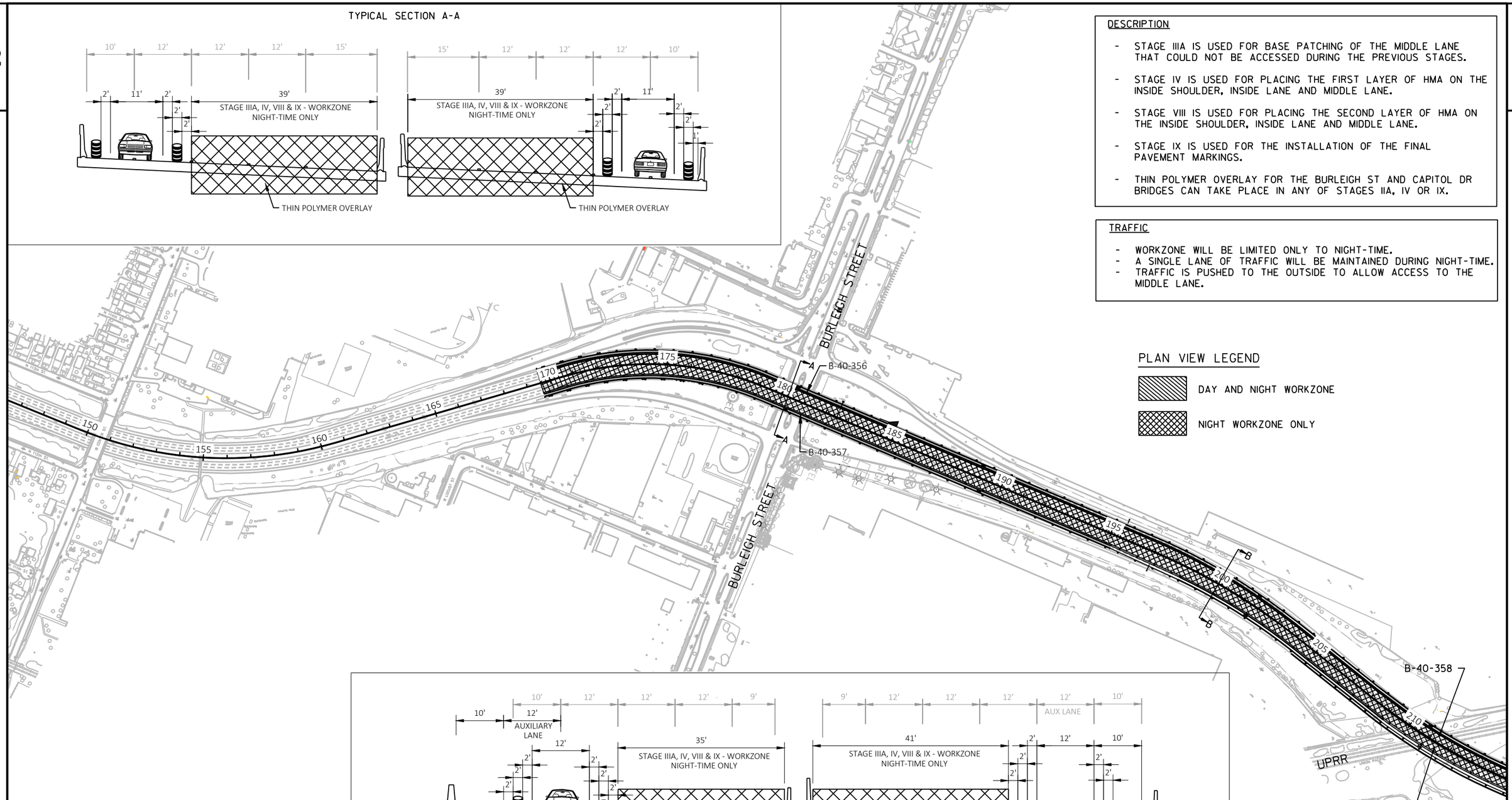
TRAFFIC

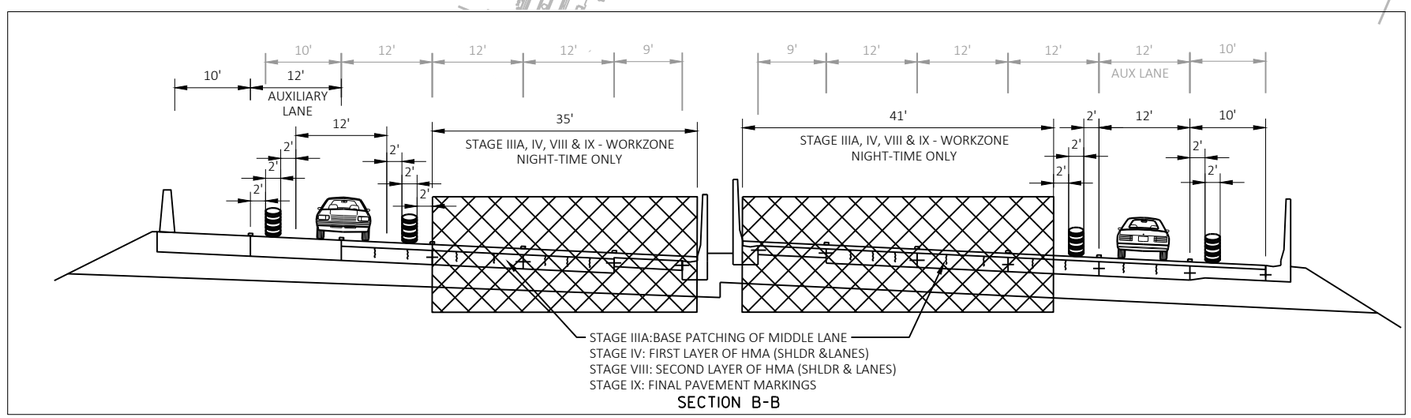
- WORKZONE WILL BE LIMITED ONLY TO NIGHT-TIME.
- A SINGLE LANE OF TRAFFIC WILL BE MAINTAINED DURING NIGHT-TIME.
- TRAFFIC IS PUSHED TO THE OUTSIDE TO ALLOW ACCESS TO THE MIDDLE LANE.

PLAN VIEW LEGEND

DAY AND NIGHT WORKZONE

NIGHT WORKZONE ONLY





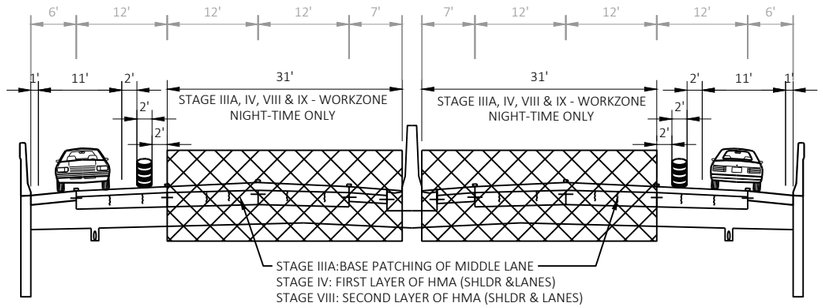
SECTION B-B

PROJECT NO: 1100-20-70	HWY: IH-41	COUNTY: MILWAUKEE	CONSTRUCTION OVERVIEW STAGES IIIA, IV, VIII, & IX	SHEET E

PR

2

TYPICAL SECTION E-E



PLAN VIEW LEGEND

DAY AND NIGHT WORKZONE

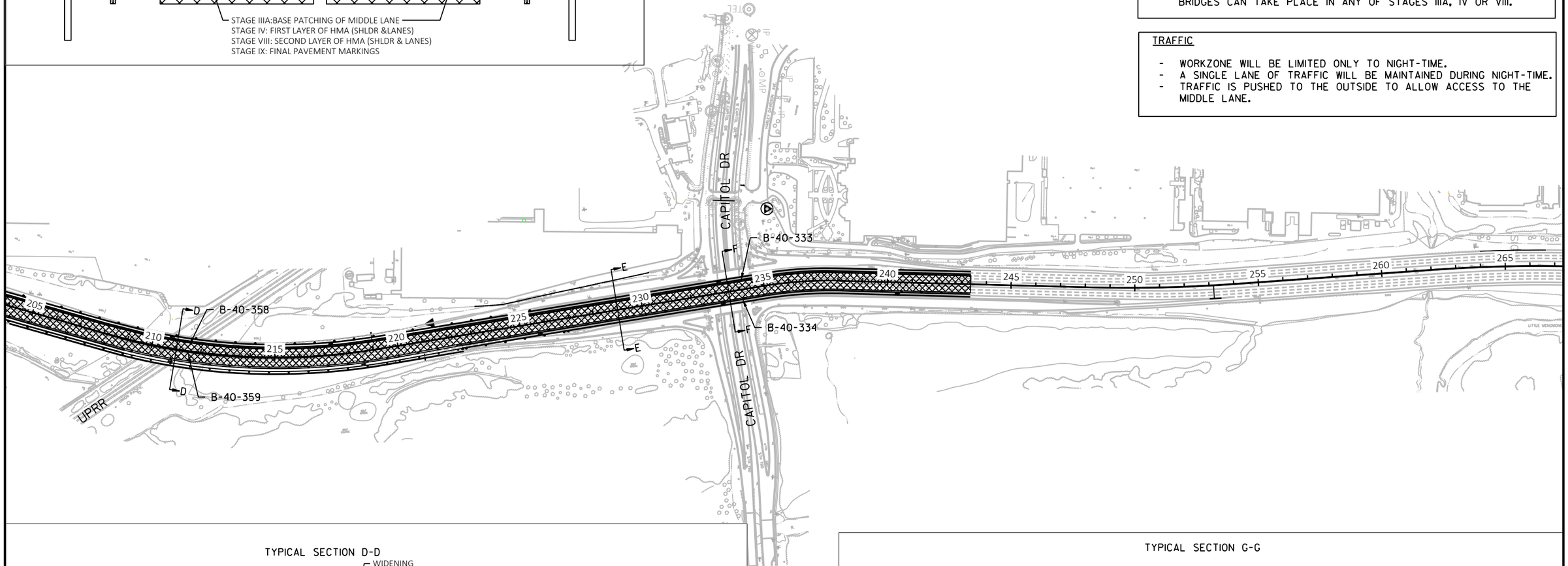
NIGHT WORKZONE ONLY

DESCRIPTION

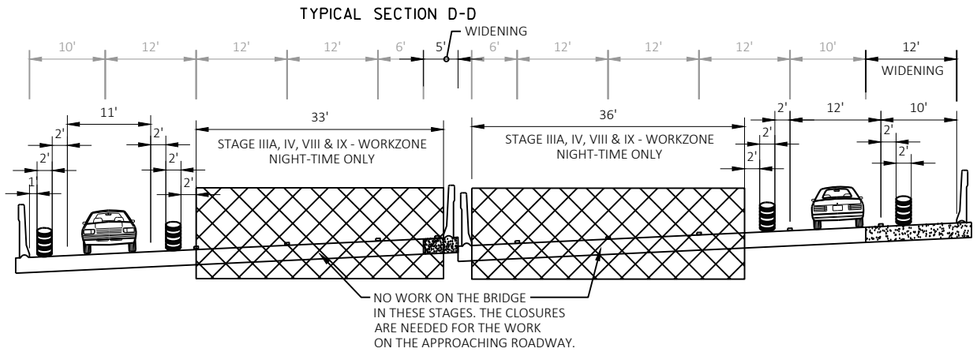
- STAGE IIIA IS USED FOR BASE PATCHING OF THE MIDDLE LANE THAT COULD NOT BE ACCESSED DURING THE PREVIOUS STAGES.
- STAGE IV IS USED FOR PLACING THE FIRST LAYER OF HMA ON THE INSIDE SHOULDER, INSIDE LANE AND MIDDLE LANE.
- STAGE VIII IS USED FOR PLACING THE SECOND LAYER OF HMA ON THE INSIDE SHOULDER, INSIDE LANE AND MIDDLE LANE.
- STAGE IX IS USED FOR THE INSTALLATION OF THE FINAL PAVEMENT MARKINGS.
- THIN POLYMER OVERLAY FOR THE BURLEIGH ST AND CAPITOL DR BRIDGES CAN TAKE PLACE IN ANY OF STAGES IIIA, IV OR VIII.

TRAFFIC

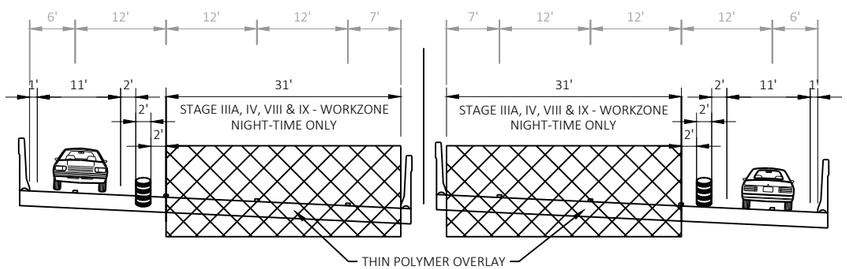
- WORKZONE WILL BE LIMITED ONLY TO NIGHT-TIME.
- A SINGLE LANE OF TRAFFIC WILL BE MAINTAINED DURING NIGHT-TIME.
- TRAFFIC IS PUSHED TO THE OUTSIDE TO ALLOW ACCESS TO THE MIDDLE LANE.



TYPICAL SECTION D-D



TYPICAL SECTION G-G



PROJECT NO: 1100-20-70	HWY: IH-41	COUNTY: MILWAUKEE	CONSTRUCTION OVERVIEW STAGES IIIA, IV, VIII, & IX	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\1-TRAFFIC CONTROL\TRAFFIC CONTROL SHEETS\026004_STAGE 3A_4_8_9_SHEETS.DWG PLOT DATE : 7/15/2021 10:17 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:400 FT
LAYOUT NAME - 026004_STAGE 3A_4_8_9_SHEETS - 025002

2

2

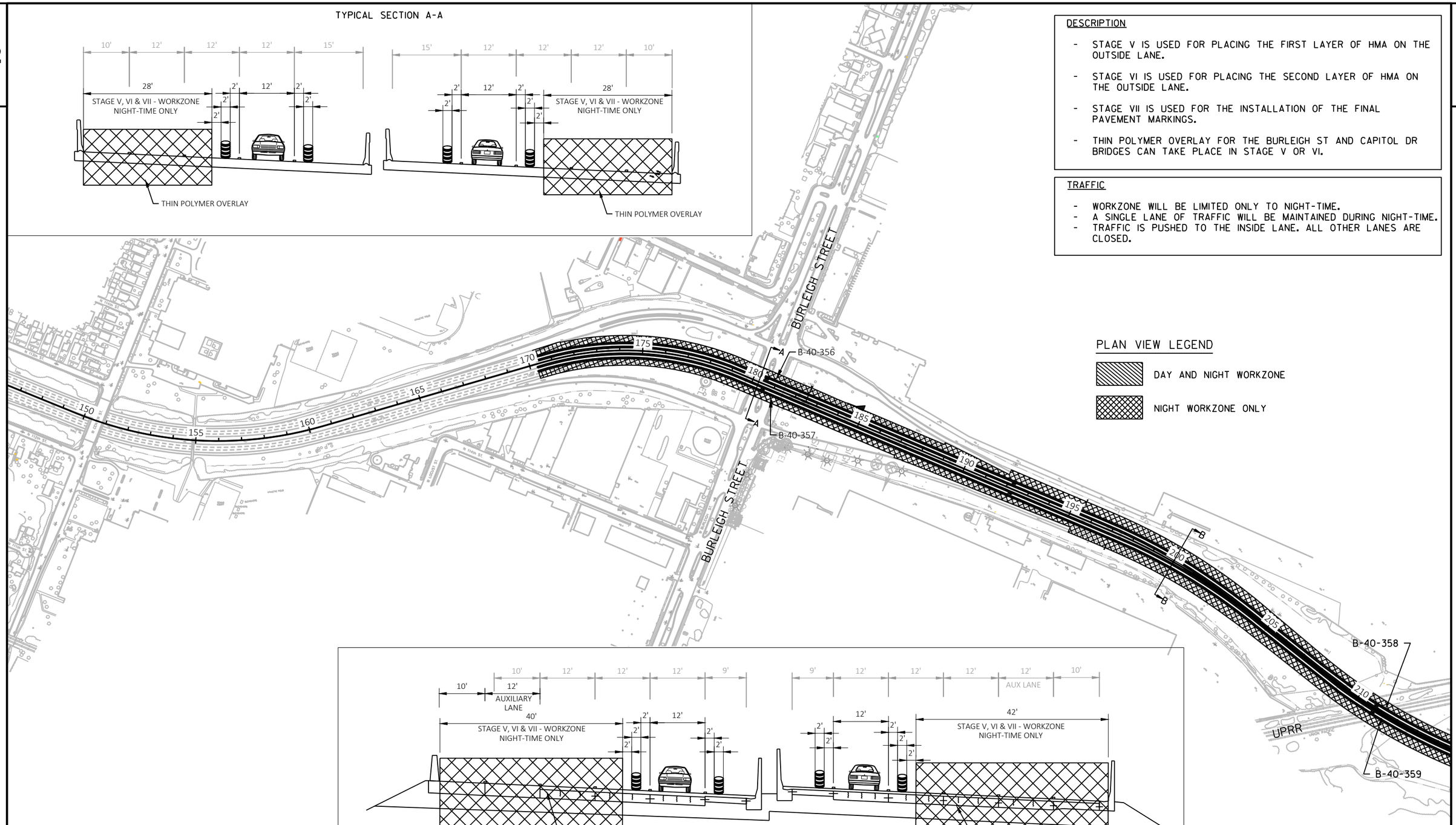
TYPICAL SECTION A-A

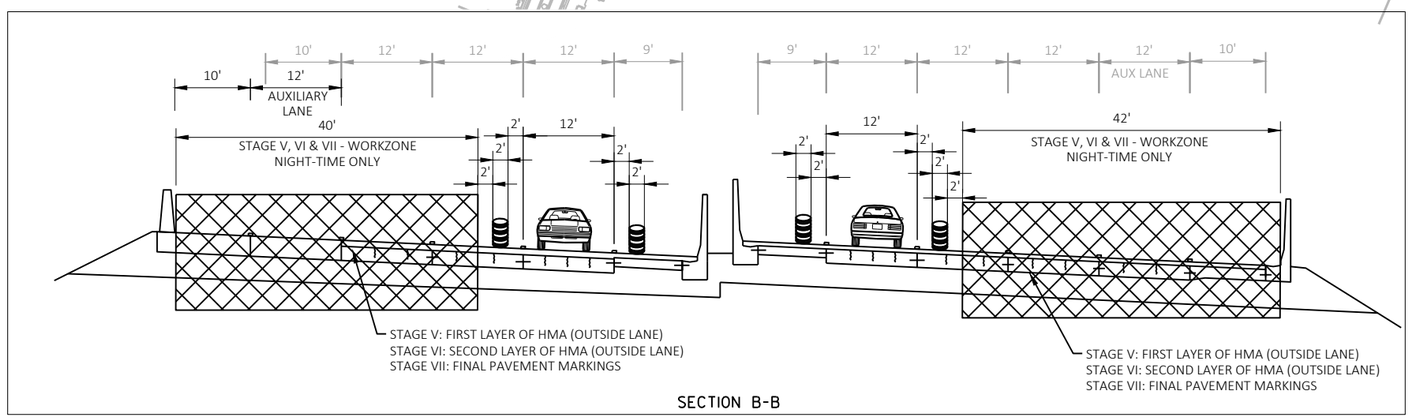
DESCRIPTION

- STAGE V IS USED FOR PLACING THE FIRST LAYER OF HMA ON THE OUTSIDE LANE.
- STAGE VI IS USED FOR PLACING THE SECOND LAYER OF HMA ON THE OUTSIDE LANE.
- STAGE VII IS USED FOR THE INSTALLATION OF THE FINAL PAVEMENT MARKINGS.
- THIN POLYMER OVERLAY FOR THE BURLEIGH ST AND CAPITOL DR BRIDGES CAN TAKE PLACE IN STAGE V OR VI.

TRAFFIC

- WORKZONE WILL BE LIMITED ONLY TO NIGHT-TIME.
- A SINGLE LANE OF TRAFFIC WILL BE MAINTAINED DURING NIGHT-TIME.
- TRAFFIC IS PUSHED TO THE INSIDE LANE. ALL OTHER LANES ARE CLOSED.





SECTION B-B

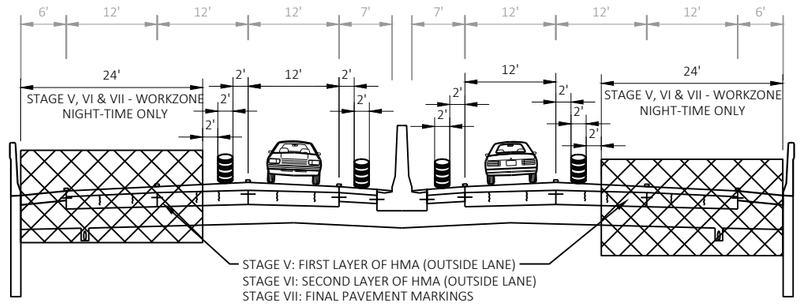
PROJECT NO: 1100-20-70	HWY: IH-41	COUNTY: MILWAUKEE	CONSTRUCTION OVERVIEW STAGES V, VI & VII	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\1-TRAFFIC CONTROL\TRAFFIC CONTROL SHEETS\026005_STAGE 5_6_7_SHEETS.DWG PLOT DATE : 7/15/2021 10:20 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:400 FT
LAYOUT NAME - 026005_STAGE 5_6_7_SHEETS - 025001

PR

2

TYPICAL SECTION E-E



PLAN VIEW LEGEND

DAY AND NIGHT WORKZONE

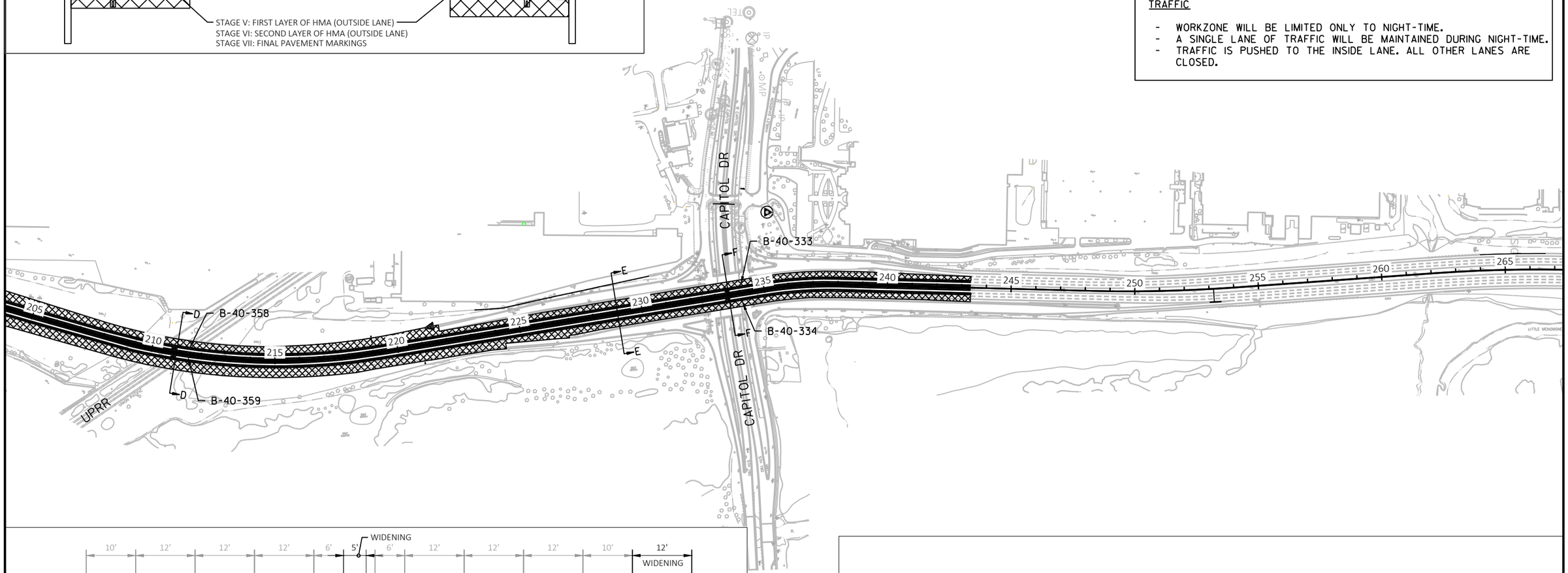
NIGHT WORKZONE ONLY

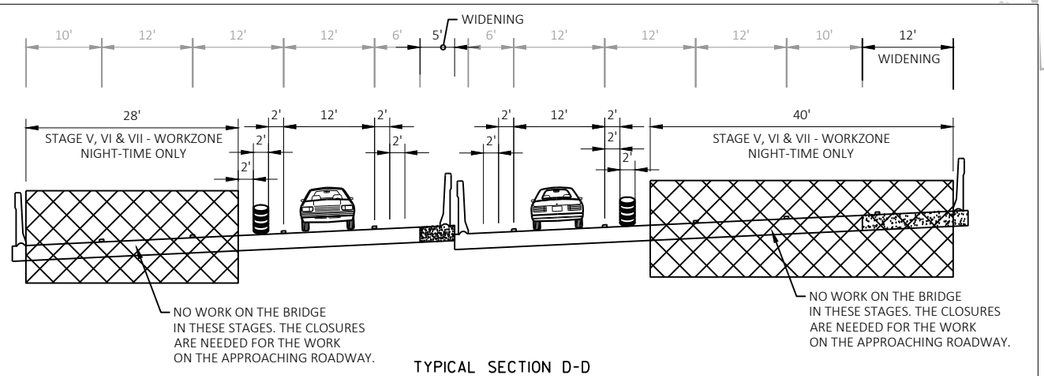
DESCRIPTION

- STAGE V IS USED FOR PLACING THE FIRST LAYER OF HMA ON THE OUTSIDE LANE.
- STAGE VI IS USED FOR PLACING THE SECOND LAYER OF HMA ON THE OUTSIDE LANE.
- STAGE VII IS USED FOR THE INSTALLATION OF THE FINAL PAVEMENT MARKINGS.
- THIN POLYMER OVERLAY FOR THE BURLEIGH ST AND CAPITOL DR BRIDGES CAN TAKE PLACE IN STAGE V OR VI.

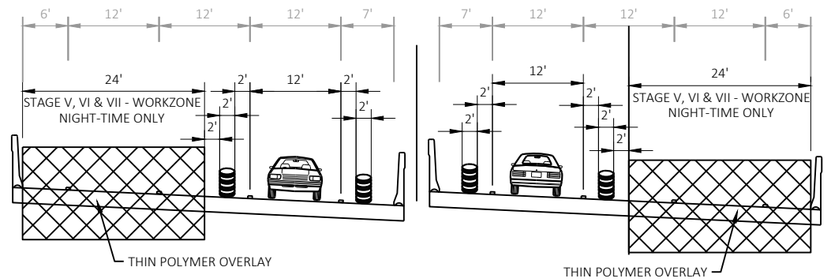
TRAFFIC

- WORKZONE WILL BE LIMITED ONLY TO NIGHT-TIME.
- A SINGLE LANE OF TRAFFIC WILL BE MAINTAINED DURING NIGHT-TIME.
- TRAFFIC IS PUSHED TO THE INSIDE LANE. ALL OTHER LANES ARE CLOSED.





TYPICAL SECTION D-D



TYPICAL SECTION G-G

PROJECT NO: 1100-20-70	HWY: IH-41	COUNTY: MILWAUKEE	CONSTRUCTION OVERVIEW STAGES V, VI & VII	SHEET PR E

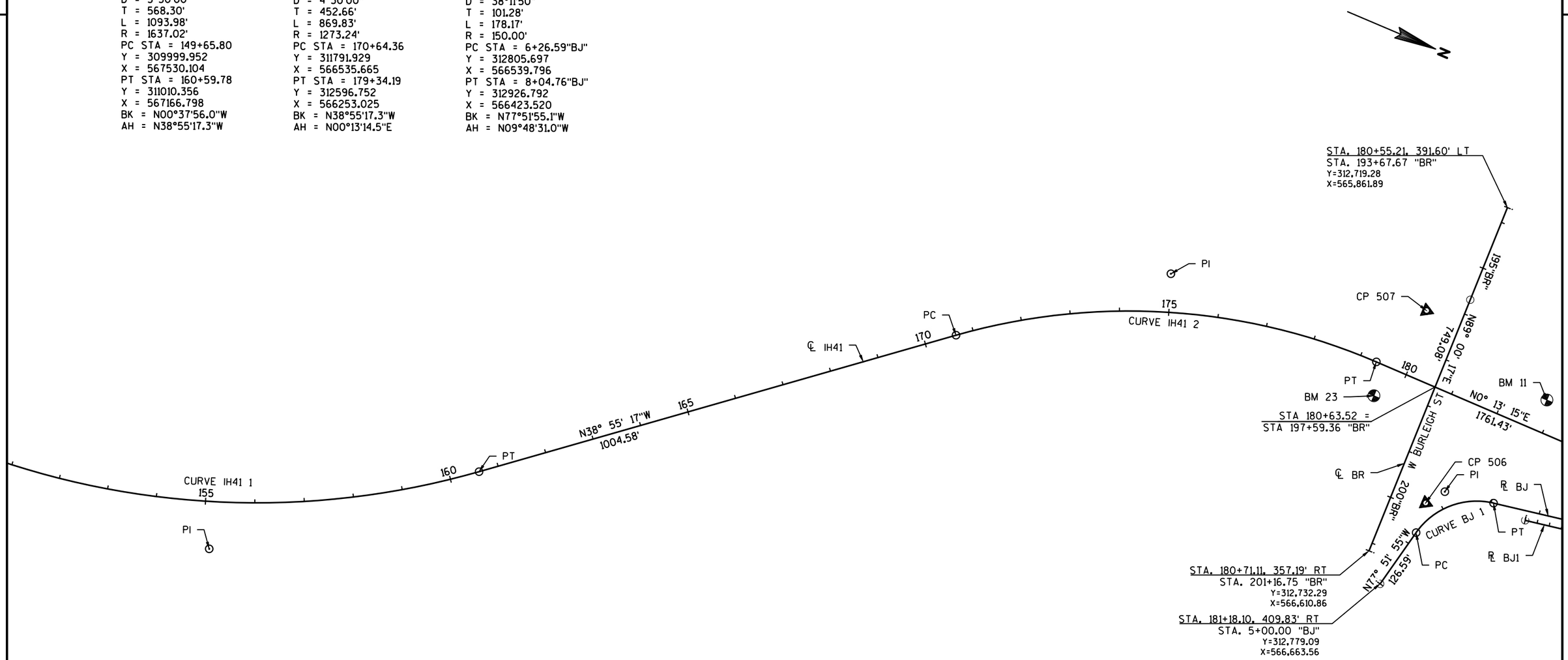
FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\1-TRAFFIC CONTROL\TRAFFIC CONTROL SHEETS\026005_STAGE 5_6_7_SHEETS.DWG PLOT DATE : 7/15/2021 10:23 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:400 FT
LAYOUT NAME - 026005_STAGE 5_6_7_SHEETS - 025002

2

CURVE IH41 1
PI STA = 155+34.10
Y = 310568.216
X = 567523.834
DELTA = 38°17'21"
D = 3°30'00"
T = 568.30'
L = 1093.98'
R = 1637.02'
PC STA = 149+65.80
Y = 309999.952
X = 567530.104
PT STA = 160+59.78
Y = 311010.356
X = 567166.798
BK = N00°37'56.0"W
AH = N38°55'17.3"W

CURVE IH41 2
PI STA = 175+17.02
Y = 312144.099
X = 566251.281
DELTA = 39°08'32"
D = 4°30'00"
T = 452.66'
L = 869.83'
R = 1273.24'
PC STA = 170+64.36
Y = 311791.929
X = 566535.665
PT STA = 179+34.19
Y = 312596.752
X = 566253.025
BK = N38°55'17.3"W
AH = N00°13'14.5"E

CURVE BJ 1
PI STA = 7+27.87"BJ"
Y = 312826.989
X = 566440.775
DELTA = 68°03'24"
D = 38°11'50"
T = 101.28'
L = 178.17'
R = 150.00'
PC STA = 6+26.59"BJ"
Y = 312805.697
X = 566539.796
PT STA = 8+04.76"BJ"
Y = 312926.792
X = 566423.520
BK = N77°51'55.1"W
AH = N09°48'31.0"W



PROJECT NO: 1100-01-77	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET E

PRE_119

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027201-AD.DWG
LAYOUT NAME - 027201_ad
PLOT DATE : 3/23/2021 9:42 AM
PLOT BY : VINDEDAHL, EMMA M
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2

CURVE IH41 3

PI STA = 200+46.78
Y = 314709.331
X = 566261.162
DELTA = 15°42'12"
D = 2°15'00"
T = 351.17'
L = 697.93'
R = 2546.48'
PC STA = 196+95.62
Y = 314358.168
X = 566259.810
PT STA = 203+93.54
Y = 315047.020
X = 566357.509
BK = N00°13'14.5"E
AH = N15°55'26.7"E

N

STA. 180+55.21, 391.60' LT
STA. 193+67.67 "BR"
Y=312,719.28
X=565,861.89

℄ BR

195'BR"

CP 507

N89° 00' 17"E
749.08'

BM 11

CP 9523

180

PT

NO° 13' 15"E
1761.43'

185

℄ IH41

190

195

CP 1006

PC

PI

200

CURVE IH41 3

PT

205

CP 1008

BM 23
STA 180+63.52 =
STA 197+59.36 "BR"

W BURLEIGH ST

200'BR"

CP 506

PI

CURVE BJ 1

PC

N77° 51' 55"W
126.59'

PT

10"BJ"

10"BJ1"

N9° 48' 31"W
415.41'

℄ BJ

℄ BJ1

PC

PI

CURVE BJ 2

PT

15"BJ"

15"BJ1"

BURLEIGH NB ENTRANCE RAMP

CP 1007

NO° 55' 47"W
671.14'

20"BJ"

STA. 180+71.11, 357.19' RT
STA. 201+16.75 "BR"
Y=312,732.29
X=566,610.86

STA. 181+18.10, 409.83' RT
STA. 5+00.00 "BJ"
Y=312,779.09
X=566,663.56

STA. 195+21.51, 66.12' RT
STA. 20+68.89 "BJ"
Y=314,183.81
X=566,325.26

CURVE BJ 1

PI STA = 7+27.87"BJ"
Y = 312826.989
X = 566440.775
DELTA = 68°03'24"
D = 38°11'50"
T = 101.28'
L = 178.17'
R = 150.00'
PC STA = 6+26.59"BJ"
Y = 312805.697
X = 566539.796
PT STA = 8+04.76"BJ"
Y = 312926.792
X = 566423.520
BK = N77°51'55.1"W
AH = N09°48'31.0"W

CURVE BJ 2

PI STA = 13+09.14"BJ"
Y = 313423.795
X = 566337.596
DELTA = 8°52'44"
D = 5°00'00"
T = 88.97'
L = 177.58'
R = 1145.91'
PC STA = 12+20.17"BJ"
Y = 313336.129
X = 566352.752
PT STA = 13+97.75"BJ"
Y = 313512.750
X = 566336.153
BK = N09°48'31.0"W
AH = N00°55'47.0"W

PROJECT NO: 1100-01-77	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET E

PRE_120

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027201-AD.DWG
LAYOUT NAME - 027202_ad

PLOT DATE : 3/23/2021 9:42 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

BM 11

CP 9523

HNOD

N

℄ IH41

185

190

℄ BJ

PC

PI

PT

CURVE BJ 2

15"BJ"

N4° 36' 36"W
143.95'

15"BJ1"

PI

CURVE BJ1 1

PT

10"BJ"

BURLEIGH NB ENTRANCE RAMP

10"BJ1"+00.00

N9° 44' 29"W
125.04'

10"BJ1"

N9° 43' 06"W
100.00'

11"BJ1"+00.00

N9° 51' 53"W
90.00'

11"BJ1"+90.00

PC

N11° 44' 08"W
47.21'

℄ BJ1

PT

STA. 183+37.39, 176.10' RT
STA. 8+74.96 "BJ1"
Y=312,999.27
X=566,430.67

STA. 189+60.22, 81.40' RT
STA. 15+05.52 "BJ1"
Y=313,622.47
X=566,338.38

CURVE BJ1 1
PI STA = 12+99.47"BJ1"
Y = 313416.926
X = 566354.949
DELTA = 7°07'32"
D = 5°43'46"
T = 62.26'
L = 124.37'
R = 1000.00'
PC STA = 12+37.21"BJ1"
Y = 313355.964
X = 566367.614
PT STA = 13+61.57"BJ1"
Y = 313478.988
X = 566349.945
BK = N11°44'08.5"W
AH = N04°36'36.0"W

PROJECT NO: 1100-01-77	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET E

PRE_121

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027201-AD.DWG
LAYOUT NAME - 027203_ad

PLOT DATE : 3/23/2021 9:42 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

CURVE CF1 1
PI STA = 12+42.84"CF1"
Y = 317955.644
X = 565198.692
DELTA = 12°06'14"
D = 3°10'59"
T = 190.84'
L = 380.26'
R = 1800.00'
PC STA = 10+52.00"CF1"
Y = 317944.203
X = 565008.195
PT STA = 14+32.26"CF1"
Y = 317926.886
X = 565387.352
BK = N86°33'46.6"E
AH = S81°19'59.0"E

CURVE CF1 2
PI STA = 19+60.59"CF1"
Y = 317847.272
X = 565909.644
DELTA = 14°00'36"
D = 3°19'45"
T = 211.47'
L = 420.82'
R = 1721.02'
PC STA = 17+49.12"CF1"
Y = 317879.138
X = 565700.592
PT STA = 21+69.94"CF1"
Y = 317866.964
X = 566120.193
BK = S81°19'59.0"E
AH = N84°39'25.0"E

CURVE CF1 3
PI STA = 25+72.76"CF1"
Y = 317904.473
X = 566521.255
DELTA = 8°19'52"
D = 3°19'45"
T = 125.34'
L = 250.25'
R = 1721.02'
PC STA = 24+47.41"CF1"
Y = 317892.801
X = 566396.456
PT STA = 26+97.66"CF1"
Y = 317934.104
X = 566643.046
BK = N84°39'25.0"E
AH = N76°19'33.1"E

CURVE CF1 4
PI STA = 29+80.42"CF1"
Y = 318000.950
X = 566917.798
DELTA = 6°52'03"
D = 3°30'00"
T = 98.22'
L = 196.21'
R = 1637.02'
PC STA = 28+82.20"CF1"
Y = 317977.730
X = 566822.357
PT STA = 30+78.41"CF1"
Y = 318012.592
X = 567015.330
BK = N76°19'33.1"E
AH = N83°11'36.1"E

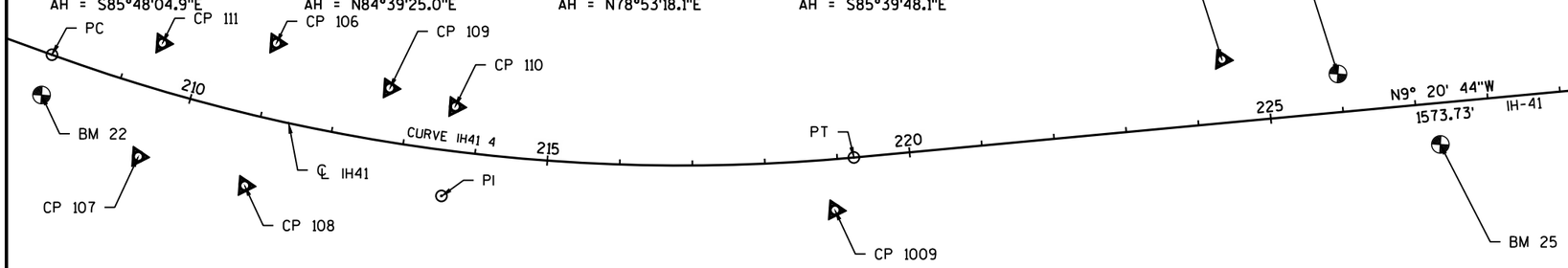
CURVE CD 1
PI STA = 36+49.58"CD"
Y = 318261.257
X = 566338.968
DELTA = 10°47'59"
D = 3°30'00"
T = 154.74'
L = 308.56'
R = 1637.02'
PC STA = 34+94.84"CD"
Y = 318108.561
X = 566364.032
PT STA = 38+03.40"CD"
Y = 318415.945
X = 566342.959
BK = N09°19'17.9"W
AH = N01°28'41.0"E

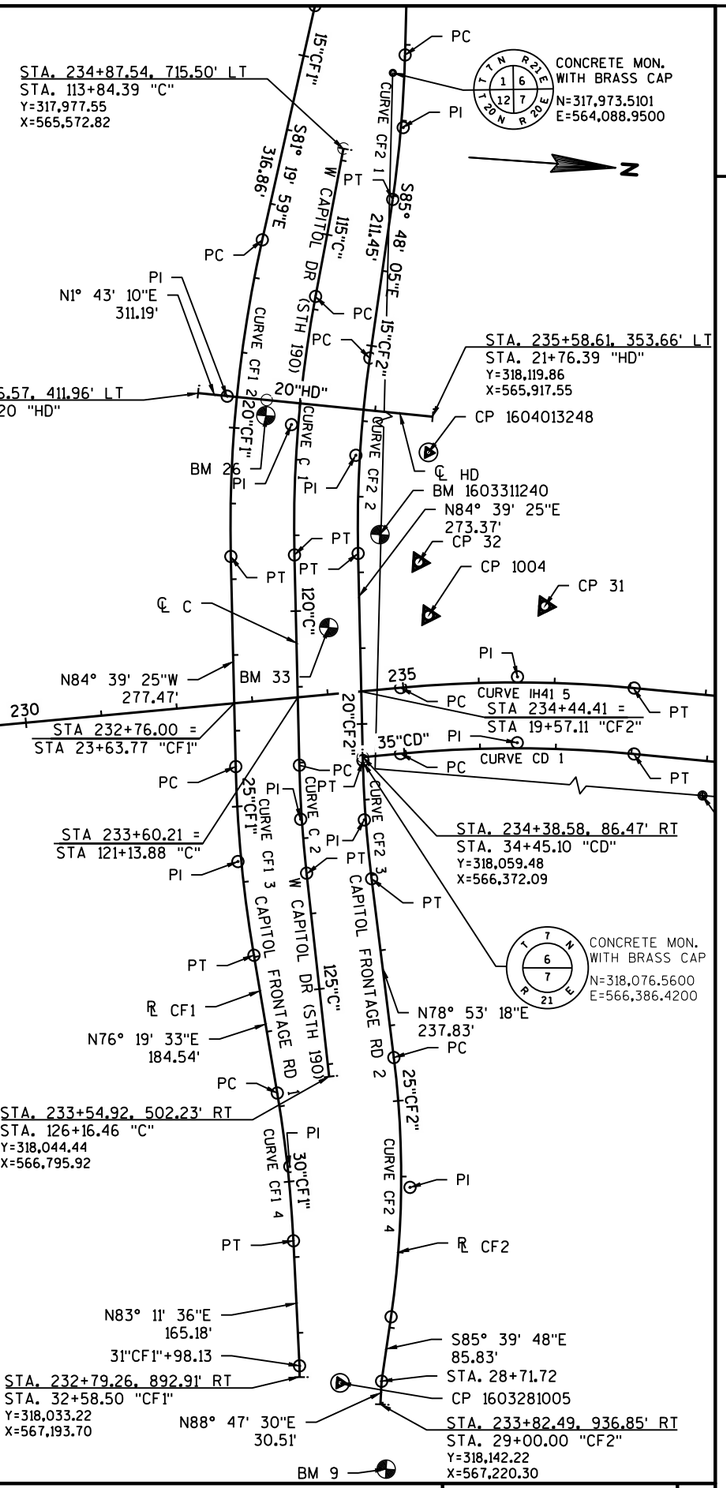
CURVE CF2 1
PI STA = 12+09.34"CF2"
Y = 318054.150
X = 565539.772
DELTA = 6°42'00"
D = 3°30'00"
T = 95.82'
L = 191.43'
R = 1637.02'
PC STA = 11+13.52"CF2"
Y = 318049.968
X = 565444.039
PT STA = 13+04.95"CF2"
Y = 318047.135
X = 565635.340
BK = N87°29'54.8"E
AH = S85°48'04.9"E

CURVE CF2 2
PI STA = 16+46.02"CF2"
Y = 318022.164
X = 565975.490
DELTA = 9°32'30"
D = 3°41'22"
T = 129.62'
L = 258.63'
R = 1553.02'
PC STA = 15+16.40"CF2"
Y = 318031.653
X = 565846.223
PT STA = 17+75.03"CF2"
Y = 318034.233
X = 566104.542
BK = S85°48'04.9"E
AH = N84°39'25.0"E

CURVE CF2 3
PI STA = 21+26.65"CF2"
Y = 318066.975
X = 566454.631
DELTA = 5°46'07"
D = 3°41'22"
T = 78.25'
L = 156.36'
R = 1553.02'
PC STA = 20+48.40"CF2"
Y = 318059.689
X = 566376.726
PT STA = 22+04.76"CF2"
Y = 318082.055
X = 566531.411
BK = N84°39'25.0"E
AH = N78°53'18.1"E

CURVE CF2 4
PI STA = 26+15.29"CF2"
Y = 318161.173
X = 566934.245
DELTA = 15°26'54"
D = 4°30'00"
T = 172.70'
L = 343.30'
R = 1273.24'
PC STA = 24+42.60"CF2"
Y = 318127.891
X = 566764.787
PT STA = 27+85.89"CF2"
Y = 318148.114
X = 567106.445
BK = N78°53'18.1"E
AH = S85°39'48.1"E





CURVE IH 41 4
PI STA = 213+70.66
Y = 315986.637
X = 566625.593
DELTA = 25°16'11"
D = 2°15'00"
T = 570.83'
L = 1123.09'
R = 2546.48'
PC STA = 207+99.83
Y = 315437.712
X = 566468.978
PT STA = 219+22.92
Y = 316549.890
X = 566532.897
BK = N15°55'26.7"E
AH = N09°20'43.9"W

CURVE IH41 5
PI STA = 236+51.38
Y = 318255.410
X = 566252.216
DELTA = 10°47'58"
D = 3°30'00"
T = 154.73'
L = 308.55'
R = 1637.02'
PC STA = 234+96.65
Y = 318102.729
X = 566277.343
PT STA = 238+05.20
Y = 318410.095
X = 566256.142
BK = N09°20'43.9"W
AH = N01°27'13.7"E

CURVE C 1
PI STA = 117+55.13"C"
Y = 317934.576
X = 565941.054
DELTA = 12°00'00"
D = 3°30'00"
T = 172.06'
L = 342.86'
R = 1637.02'
PC STA = 115+83.07"C"
Y = 317954.522
X = 565770.156
PT STA = 119+25.93"C"
Y = 317950.598
X = 566112.364
BK = S83°20'35.0"E
AH = N84°39'25.0"E

CURVE C 2
PI STA = 122+74.87"C"
Y = 317983.091
X = 566459.790
DELTA = 5°00'00"
D = 3°30'00"
T = 71.47'
L = 142.86'
R = 1637.02'
PC STA = 122+03.39"C"
Y = 317976.436
X = 566388.627
PT STA = 123+46.25"C"
Y = 317995.924
X = 566530.102
BK = N84°39'25.0"E
AH = N79°39'25.0"E

PROJECT NO: 1100-01-77	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET PRE_122 E

2

CURVE CF1 1
PI STA = 12+42.84"CF1"
Y = 317955.644
X = 565198.692
DELTA = 12°06'14"
D = 3°10'59"
T = 190.84'
L = 380.26'
R = 1800.00'
PC STA = 10+52.00"CF1"
Y = 317944.203
X = 565008.195
PT STA = 14+32.26"CF1"
Y = 317926.886
X = 565387.352
BK = N86°33'46.6"E
AH = S81°19'59.0"E

CURVE CF1 2
PI STA = 19+60.59"CF1"
Y = 317847.272
X = 565909.644
DELTA = 14°00'36"
D = 3°19'45"
T = 211.47'
L = 420.82'
R = 1721.02'
PC STA = 17+49.12"CF1"
Y = 317879.138
X = 565700.592
PT STA = 21+69.94"CF1"
Y = 317866.964
X = 566120.193
BK = S81°19'59.0"E
AH = N84°39'25.0"E

CURVE CF1 3
PI STA = 25+72.76"CF1"
Y = 317904.473
X = 566521.255
DELTA = 8°19'52"
D = 3°19'45"
T = 125.34'
L = 250.25'
R = 1721.02'
PC STA = 24+47.41"CF1"
Y = 317892.801
X = 566396.456
PT STA = 26+97.66"CF1"
Y = 317934.104
X = 566643.046
BK = N84°39'25.0"E
AH = N76°19'33.1"E

CURVE CF1 4
PI STA = 29+80.42"CF1"
Y = 318000.950
X = 566917.798
DELTA = 6°52'03"
D = 3°30'00"
T = 98.22'
L = 196.21'
R = 1637.02'
PC STA = 28+82.20"CF1"
Y = 317977.730
X = 566822.357
PT STA = 30+78.41"CF1"
Y = 318012.592
X = 567015.330
BK = N76°19'33.1"E
AH = N83°11'36.1"E

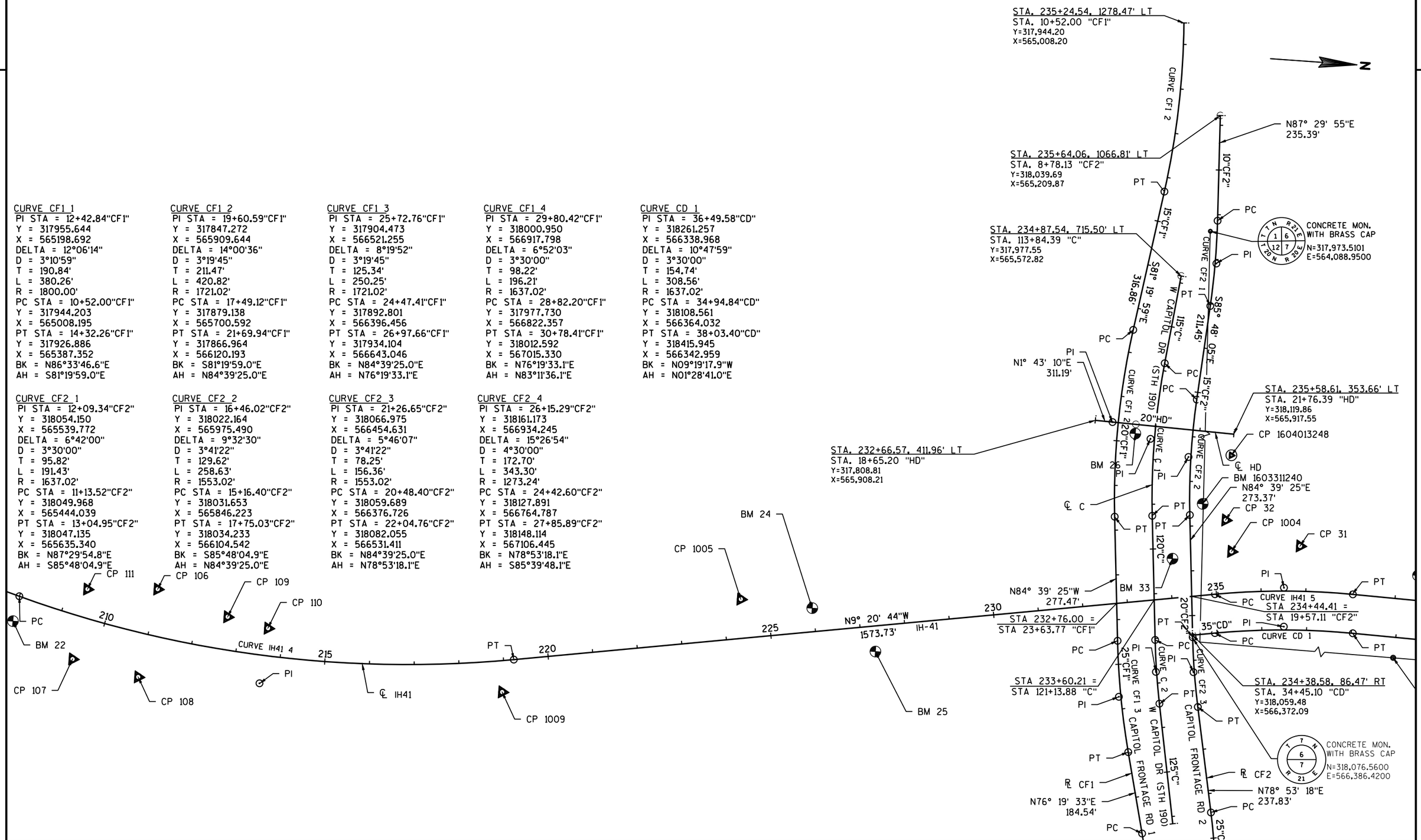
CURVE CD 1
PI STA = 36+49.58"CD"
Y = 318261.257
X = 566338.968
DELTA = 10°47'59"
D = 3°30'00"
T = 154.74'
L = 308.56'
R = 1637.02'
PC STA = 34+94.84"CD"
Y = 318108.561
X = 566364.032
PT STA = 38+03.40"CD"
Y = 318415.945
X = 566342.959
BK = N09°19'17.9"W
AH = N01°28'41.0"E

CURVE CF2 1
PI STA = 12+09.34"CF2"
Y = 318054.150
X = 565539.772
DELTA = 6°42'00"
D = 3°30'00"
T = 95.82'
L = 191.43'
R = 1637.02'
PC STA = 11+13.52"CF2"
Y = 318049.968
X = 565444.039
PT STA = 13+04.95"CF2"
Y = 318047.135
X = 565635.340
BK = N87°29'54.8"E
AH = S85°48'04.9"E

CURVE CF2 2
PI STA = 16+46.02"CF2"
Y = 318022.164
X = 565975.490
DELTA = 9°32'30"
D = 3°41'22"
T = 129.62'
L = 258.63'
R = 1553.02'
PC STA = 15+16.40"CF2"
Y = 318031.653
X = 565846.223
PT STA = 17+75.03"CF2"
Y = 318034.233
X = 566104.542
BK = S85°48'04.9"E
AH = N84°39'25.0"E

CURVE CF2 3
PI STA = 21+26.65"CF2"
Y = 318066.975
X = 566454.631
DELTA = 5°46'07"
D = 3°41'22"
T = 78.25'
L = 156.36'
R = 1553.02'
PC STA = 20+48.40"CF2"
Y = 318059.689
X = 566376.726
PT STA = 22+04.76"CF2"
Y = 318082.055
X = 566531.411
BK = N84°39'25.0"E
AH = N78°53'18.1"E

CURVE CF2 4
PI STA = 26+15.29"CF2"
Y = 318161.173
X = 566934.245
DELTA = 15°26'54"
D = 4°30'00"
T = 172.70'
L = 343.30'
R = 1273.24'
PC STA = 24+42.60"CF2"
Y = 318127.891
X = 566764.787
PT STA = 27+85.89"CF2"
Y = 318148.114
X = 567106.445
BK = N78°53'18.1"E
AH = S85°39'48.1"E



PROJECT NO: 1100-01-77	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET E

PRE_123

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027201-AD.DWG
LAYOUT NAME - 027205_ad
PLOT DATE : 3/23/2021 9:42 AM
PLOT BY : VINDEDAHL, EMMA M
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2

CRETE MON.
H BRASS CAP
17,973.5101
64,088.9500

CURVE IH41 6
PI STA = 251+10.49
Y = 319714.962
X = 566289.259
DELTA = 5°34'14"
D = 1°00'00"
T = 278.74'
L = 557.04'
R = 5729.58'
PC STA = 248+31.75
Y = 319436.310
X = 566282.187
PT STA = 253+88.79
Y = 319992.985
X = 566269.249
BK = N01°27'13.7"E
AH = N04°06'59.9"W

CURVE IH41 7
PI STA = 265+70.18
Y = 321171.329
X = 566184.440
DELTA = 6°54'32"
D = 1°00'00"
T = 345.87'
L = 690.90'
R = 5729.58'
PC STA = 262+24.31
Y = 320826.351
X = 566209.269
PT STA = 269+15.22
Y = 321516.789
X = 566201.290
BK = N04°06'59.9"W
AH = N02°47'32.6"E

CURVE IH41 7
PI STA = 48+76.88"CD"
Y = 319489.066
X = 566370.649
DELTA = 5°33'24"
D = 1°00'00"
T = 278.05'
L = 555.67'
R = 5729.58'
PC STA = 45+98.83"CD"
Y = 319211.106
X = 566363.477
PT STA = 51+54.50"CD"
Y = 319766.415
X = 566350.872
BK = N01°28'41.0"E
AH = N04°04'43.1"W

N

CP 31
BM 10
CP 1003
CP 1002
PC
PI
240
245
250
255
260
265
CURVE IH41 6
IH41
H41 5
PT
N1° 27' 14"E
1026.55'
PC
PT
N4° 07' 00"W
835.52'
℄ IH41
PI
CURVE IH41 6
STA. 253+80.72, 65.30' RT
STA. 53+78.18 "CD"
Y=319,989.53
X=566,334.96
CD 1
40"CD"
N1° 28' 41"E
795.43'
CAPITOL NB ENTRANCE RAMP
45"CD"
50"CD"
CURVE CD 2
PC
PI
PT
N4° 04' 43"W
223.68'
PT
CP 1010

T 7 N R 21 E 6
CONCRETE MON.
WITH BRASS CAP
N=320,732.8880
E=566,416.8200

T 7 N R 21 E 6 7
CONCRETE MON.
WITH BRASS CAP
N=320,732.8882
E=560,416.8202

PROJECT NO: 1100-01-77	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027201-AD.DWG
LAYOUT NAME - 027206_ad
PLOT DATE : 3/23/2021 9:42 AM
PLOT BY : VINDEDAHL, EMMA M
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

2

N

CP 507
CP REBAR
STA. 179+86.99, 135.45' LT
N 312,650.0700
E 566,117.7110
ELEV. 753.876

BM 11
BM CH X B-40-356-00
STA. 182+82.02, 65.09' LT
N 312,944.8350
E 566,189.2780
ELEV. 771.343

CP 9523
HMOD WAUWATOSA W
STA. 185+65.67, 101.19' LT
N 313,228.6380
E 566,154.2530
ELEV. 759.220

BM 23
BM CH X B-40-357-00
STA. 179+56.58, 64.96' RT
N 312,618.8880
E 566,318.0560
ELEV. 775.844

CP 506
CPP REBAR
STA. 181+38.46, 223.29' RT
N 312,800.0780
E 566,476.9880
ELEV. 750.690

CP 1007
CP FENO
STA. 191+95.08, 88.38' RT
N 313,857.3240
E 566,346.1700
ELEV. 755.108

BURLEIGH SB EXIT RAMP

BURLEIGH NB ENTRANCE RAMP

SB IH 41

NB IH 41

BURLEIGH ST.

19.4"BR"

19.6"BR"

19.8"BR"

20.0"BR"

R BR

R BJ

R BJ1

10"BJ"

10"BJ1"

8"BJ"

6"BJ"

12"BJ"

12"BJ1"

14"BJ"

14"BJ1"

16"BJ"

18"B

178 180 182 184 186 188 190 192

WATER TOWER

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

PRE_125

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027202-AD - SURVEY CONTROL POINTS.DWG
LAYOUT NAME - 050201_ad_control

PLOT DATE : 3/23/2021 9:45 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

CP 1006
CP FEN0
STA. 200+04.48, 67.76' LT
N 314,674.7800
E 566,212.4090
ELEV. 754.196

SB IH 41

NB IH 41

192 194 196 198 200 202 204 206

18"BJ"

20"BJ"

CP 1007
CP FEN0
STA. 191+95.08, 88.17' RT
N 313,857.3240
E 566,346.1700
ELEV. 755.108

CP 1008
CP FEN0
STA. 205+11.98, 72.17' RT
N 315,140.9890
E 566,459.4850
ELEV. 766.110

WATER TOWER

SIGN

INL W MH HW

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

PRE_126

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027202-AD - SURVEY CONTROL POINTS.DWG
LAYOUT NAME - 050202_ad_control

PLOT DATE : 3/23/2021 9:46 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

CP 106
CP FENO
STA. 210+97.60, 103.53' LT
N 315,744.8990
E 566,431.4440
ELEV. 742.455

CP 111
CP FENO
STA. 209+40.92, 62.90' LT
N 315,588.3250
E 566,442.4370
ELEV. 770.888

CP 109
CP FENO
STA. 212+69.22, 73.41' LT
N 315,905.1740
E 566,482.2580
ELEV. 737.277

CP 110
CP FENO
STA. 213+64.91, 61.36' LT
N 315,997.1740
E 566,501.3660
ELEV. 760.413

206 208 210 212 214 216 218 220

SB IH 41

NB IH 41

BM 22
BM CH X B-40-359-67
STA. 208+05.16, 57.13' RT
N 315,427.2900
E 566,525.3950
ELEV. 777.371

CP 107
CP FENO
STA. 209+53.78, 96.12' RT
N 315,566.2000
E 566,600.6590
ELEV. 740.012

CP 108
CP FENO
STA. 211+00.33, 97.39' RT
N 315,715.3020
E 566,630.3470
ELEV. 735.517

CP 1009
CP FENO
STA. 218+91.19, 69.88' RT
N 316,529.0330
E 566,606.9660
ELEV. 748.413

WATER TOWER

GOLF GREEN

GOLF COURSE

UNION PACIFIC

INL

SIGN

FO

W

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET PRE_127 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027202-AD - SURVEY CONTROL POINTS.DWG
LAYOUT NAME - 050203_ad_control

PLOT DATE : 3/23/2021 9:46 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

BM 26
BM CH X B-40-330-66
STA. 233+52.78, 374.02' LT
N 317,900.0420
E 565,931.6430
ELEV. 733.541

BM 1603311240
NW TAG BOLT ON HYD
STA. 234+88.04, 203.67' LT
N 318,061.1673
E 566,077.7666
ELEV. 733.506

CP 32
CP CH X E COR CONC BASE FOR TRAFFIC CONTROL BOX
STA. 235+32.14, 163.12' LT
N 318,114.8203
E 566,110.47.01

CP 1004
CP-FENO
STA. 235+39.77, 92.28' LT
N 318,132.7670
E 566,179.4980
ELEV. 733.505

CP 1604013248
MON 4INX4IN CONC
STA. 235+51.70, 306.90' LT
N 318,117.6845
E 565,965.0954
ELEV. 734.624

BM 24
BM CH X B-40-333-00
STA. 225+97.69, 52.62' LT
N 317,207.1580
E 566,371.4000
ELEV. 743.186

CP 1005
CP FENO
STA. 224+40.66, 87.28' LT
N 317,046.4750
E 566,362.5990
ELEV. 737.049

BM 33
BM 4 CC
STA. 234+09.39, 87.87' LT
N 318,002.3589
E 566,204.8045
ELEV. 735.202

SB CAPITOL DR ENTRANCE RAMP

NB CAPITOL DR EXIT RAMP

BM 25
BM CH X B-40-334-00
STA. 227+29.08, 57.16' RT
N 317,354.6440
E 566,458.3760
ELEV. 745.585

SB IH 41

NB IH 41

222 224 226 228 230 232 234 236

20"HD"
20"CF1"
16"CF2"
118"CA"
22"CF1"
18"CF2"
120"CA"
24"CF1"
20"CF2"
122"CA"
36"CD"
26"CF1"
22"CF2"
124"CA"
28"CF1"
24"CF2"
125"

CAPITOL DR FRONTAGE RD 1
CAPITOL DR FRONTAGE RD 2
EB CAPITOL DR (STH 190)
WB CAPITOL DR (STH 190)

GOLF GREEN
CEMETERY

N

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

PRE_128

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027202-AD - SURVEY CONTROL POINTS.DWG
LAYOUT NAME - 050204_ad_control
PLOT DATE : 3/23/2021 9:47 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

GREEN

CEMETERY

WB CAPITOL DR (STH 190)

EB CAPITOL DR (STH 190)

STH 190

MENOMONEE R.

28"CF1"

30"CF1"

32"CF1"

24"CF2"

26"CF2"

28"CF2"

124"CA"

126"CA"

CP 1603281005
MON FENO 938
STA. 233+31.78, 905.94' RT
N 318,087.0786
E 567,197.9811
ELEV. 706.100

BM 9
BM 3 CONC CUT SQUARE
STA. 233+81.61, 1024.98' RT
N 318,155.6796
E 567,307.3541
ELEV. 708.194

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

PRE_129

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027202-AD - SURVEY CONTROL POINTS.DWG
LAYOUT NAME - 050205_ad_control

PLOT DATE : 3/23/2021 9:48 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

CP 31
CH X NE COR OF INLET WEST SIDE 45 SB OFF RAMP
STA. 236+84.53, 101.011' LT
N 318,284.8130
E 566,156.5420
ELEV. 735.823

BM 10
BM CH T B-40-333-00
STA. 239+45.95, 55.947' LT
N 318,552.2280
E 566,203.8000
ELEV. 745.983

CP 1003
CP-FEN0
STA. 243+26.40, 74.900' LT
N 318,932.8450
E 566,194.4900
ELEV. 733.954

SB CAPITOL DR EXIT RAMP

SB IH 41

NB IH 41

SB CAPITOL DR ENTRANCE RAMP

236 238 240 242 244 246 248 250

36"CD" 38"CD" 40"CD" 42"CD" 44"CD" 46"CD" 48"CD" 50"CD"

CEMETERY

N

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

PRE_130

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027202-AD - SURVEY CONTROL POINTS.DWG
LAYOUT NAME - 050206_ad_control

PLOT DATE : 3/23/2021 9:48 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

CP 1002
CP-FENO
STA. 257+69.61, 72.411' LT
N 320,367.6330
E 566,169.6630
ELEV. 717.822

SB IH 41

NB IH 41

246 248 250 252 254 256 258 260

46"CD" 48"CD" 50"CD" SB CAPITOL DR ENTRANCE RAMP 52"CD"

CP 1010
CP-FENO
STA. 251+85.59, 86.60' RT
N 319,793.3360
E 566,366.8790
ELEV. 723.622

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

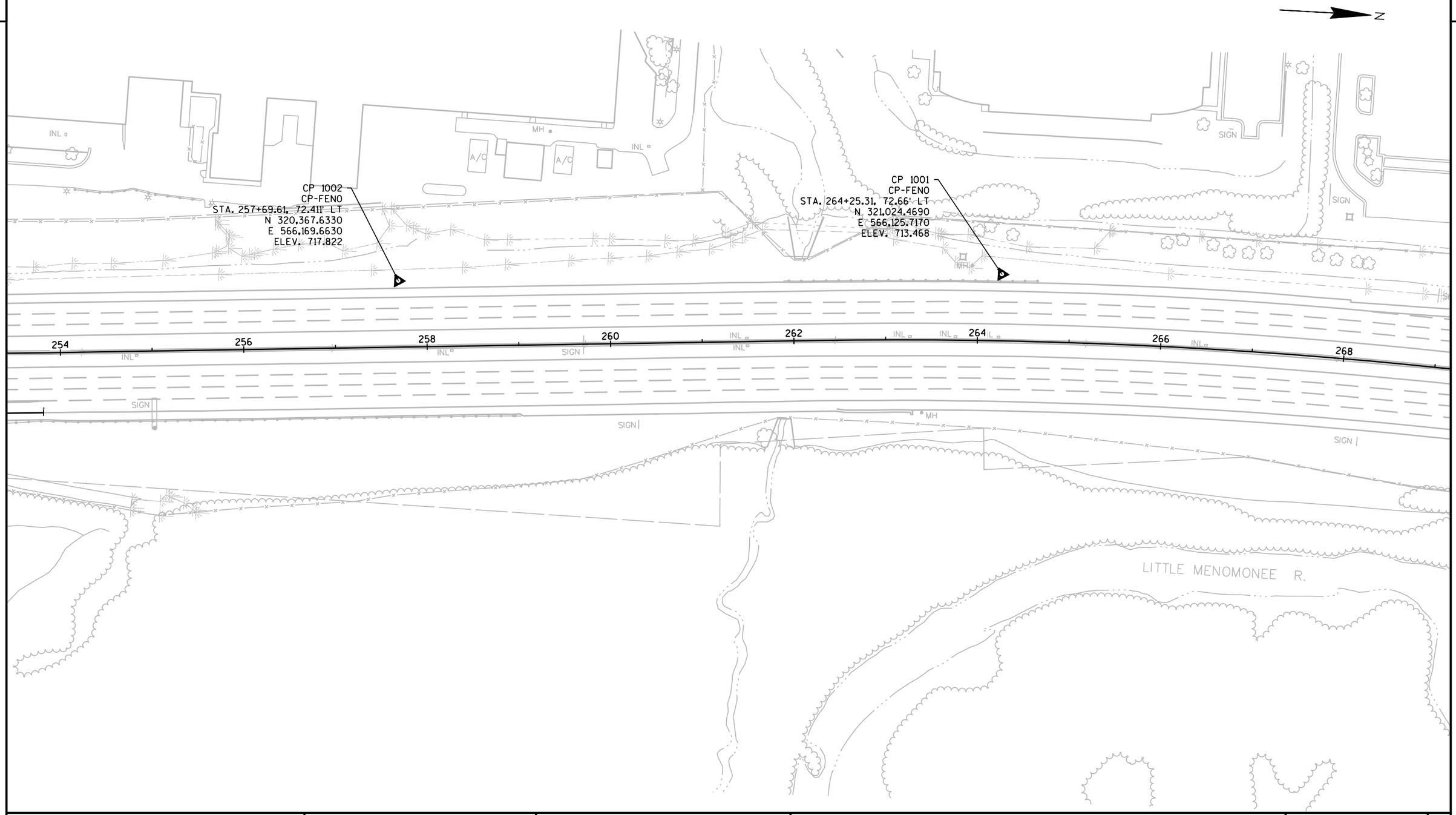
PRE_131

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027202-AD - SURVEY CONTROL POINTS.DWG
LAYOUT NAME - 050207_ad_control

PLOT DATE : 3/23/2021 9:49 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

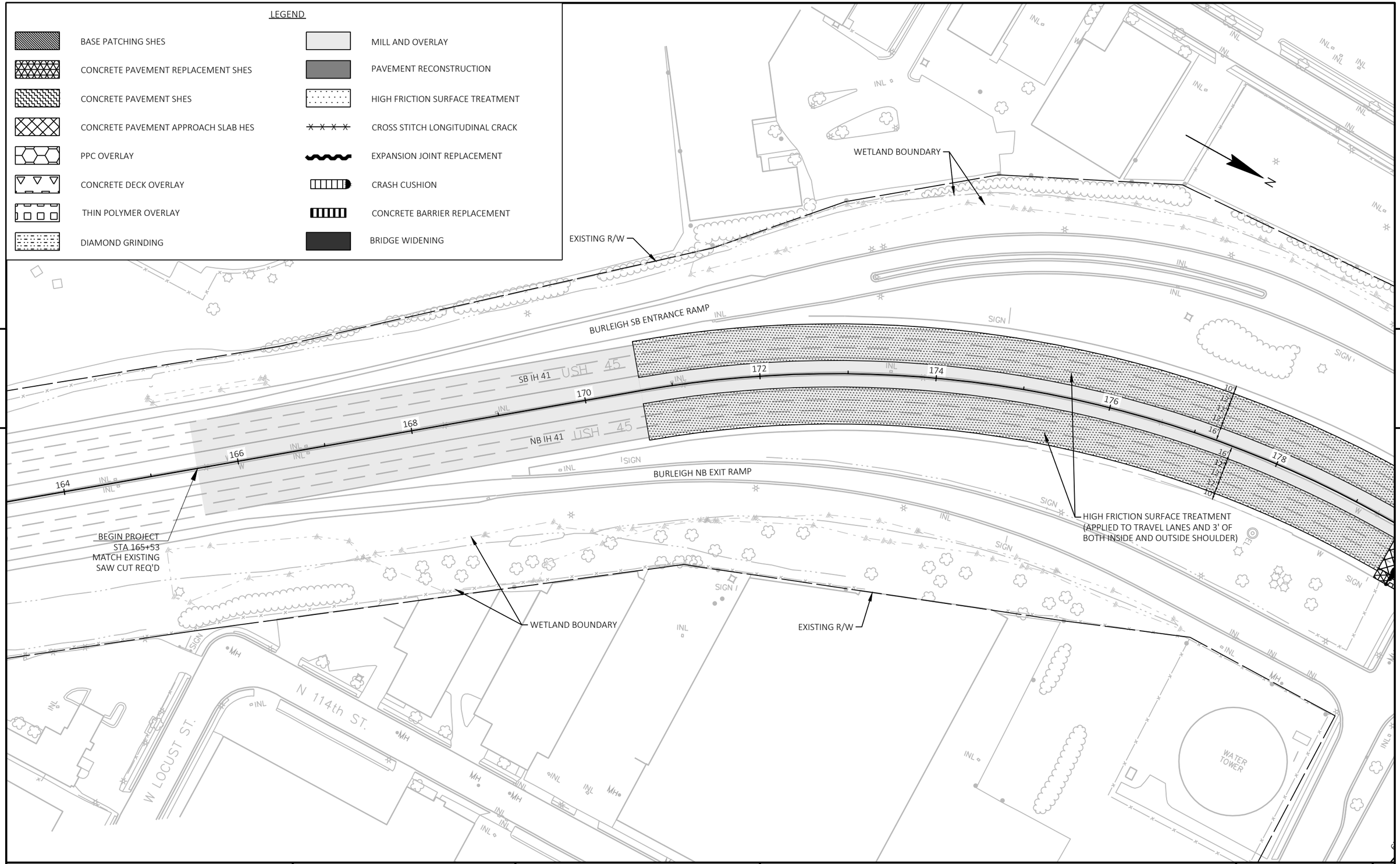
PRE_132

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_027202-AD - SURVEY CONTROL POINTS.DWG
LAYOUT NAME - 050208_ad_control

PLOT DATE : 3/23/2021 9:49 AM PLOT BY : VINDEDAHL, EMMA M PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- BASE PATCHING SHES
- CONCRETE PAVEMENT REPLACEMENT SHES
- CONCRETE PAVEMENT SHES
- CONCRETE PAVEMENT APPROACH SLAB HES
- PPC OVERLAY
- CONCRETE DECK OVERLAY
- THIN POLYMER OVERLAY
- DIAMOND GRINDING
- MILL AND OVERLAY
- PAVEMENT RECONSTRUCTION
- HIGH FRICTION SURFACE TREATMENT
- CROSS STITCH LONGITUDINAL CRACK
- EXPANSION JOINT REPLACEMENT
- CRASH CUSHION
- CONCRETE BARRIER REPLACEMENT
- BRIDGE WIDENING



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN SHEETS	SHEET E

PRE_133

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_050201-PN.DWG
LAYOUT NAME - 050201-pn

PLOT DATE : 10/4/2021 1:46 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

EB BURLEIGH ST

WB BURLEIGH ST

N

EXISTING R/W

WETLAND BOUNDARY

SLOPE INTERCEPT

NEW SIGN STRUCTURE & DMS SIGN
S-40-462
STA. 182+50

INSTALL MGS GUARDRAIL

"SEE CROSS SECTIONS
"BEAMGUARD REPLACEMENT -
NW QUADRANT - B-40-356"

REMOVE EXISTING SIGN STRUCTURE
S-40-400

REMOVE EXISTING GUARDRAIL

BURLEIGH SB EXIT RAMP

B-40-356

SB IH 41

NB IH 41

180 182 184 186 188 190 192

CONCRETE BARRIER TRANSITION.
CONSTRUCTION DETAIL TO BE
ADDED ONCE SIGN STRUCTURE
DESIGN IS FINALIZED.

RL RAMP "BRJ"

BURLEIGH NB ENTRANCE RAMP

14"BRJ" 16"BRJ" 18"BRJ"

12"BRJ" 10"BRJ" 8"BRJ" 6"BRJ"

14"BR1" 12"BR1" 10"BR1"

INSTALL CONCRETE BARRIER
IN FRONT OF THE MONOTUBE

B-40-357

HIGH FRICTION SURFACE TREATMENT
(APPLIED TO TRAVEL LANES AND 3' OF
BOTH INSIDE AND OUTSIDE SHOULDER)

RL RAMP "BR1"

EXISTING R/W

SLOPE INTERCEPT

INSTALL MGS GUARDRAIL AND
EXTEND SOUTH TO PROTECT
FROM NON-TRAVERSABLE
FORESLOPES LOCATED WITHIN
THE CLEAR ZONE. CONNECT TO
THE NEW CONCRETE BARRIER.

(SEE CROSS SECTIONS
"BURLEIGH NB ENTRANCE
RAMP, R/L "BR1"

REMOVE EXISTING GUARDRAIL

WETLAND BOUNDARY

BEGIN CONSTRUCTION RAMP "BRJ"
STA 14+63.29 "BRJ"

WATER TOWER

WATER

LEGEND

BASE PATCHING SHES	MILL AND OVERLAY
CONCRETE PAVEMENT REPLACEMENT SHES	PAVEMENT RECONSTRUCTION
CONCRETE PAVEMENT SHES	HIGH FRICTION SURFACE TREATMENT
CONCRETE PAVEMENT APPROACH SLAB HES	CROSS STITCH LONGITUDINAL CRACK
PPC OVERLAY	EXPANSION JOINT REPLACEMENT
CONCRETE DECK OVERLAY	CRASH CUSHION
THIN POLYMER OVERLAY	CONCRETE BARRIER REPLACEMENT
DIAMOND GRINDING	BRIDGE WIDENING

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN SHEETS	SHEET E

PRE_134

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_050201-PN.DWG
LAYOUT NAME - 050202-pn

PLOT DATE : 10/4/2021 1:47 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- BASE PATCHING SHES
- CONCRETE PAVEMENT REPLACEMENT SHES
- CONCRETE PAVEMENT SHES
- CONCRETE PAVEMENT APPROACH SLAB HES
- PPC OVERLAY
- CONCRETE DECK OVERLAY
- THIN POLYMER OVERLAY
- DIAMOND GRINDING
- MILL AND OVERLAY
- PAVEMENT RECONSTRUCTION
- HIGH FRICTION SURFACE TREATMENT
- CROSS STITCH LONGITUDINAL CRACK
- EXPANSION JOINT REPLACEMENT
- CRASH CUSHION
- CONCRETE BARRIER REPLACEMENT
- BRIDGE WIDENING

N

NEW SIGN STRUCTURE
S-40-3087
STA. 195+50

NEW SIGN STRUCTURE
S-40-3060
STA. 201+25

EXISTING R/W

WETLAND BOUNDARY

REMOVE EXISTING SIGN STRUCTURE
S-40-237

SLOPE INTERCEPT

SB IH 41

NB IH 41

CONCRETE BARRIER TRANSITION.
CONSTRUCTION DETAIL TO BE
ADDED ONCE SIGN STRUCTURE
DESIGN IS FINALIZED.

20"BRJ"

NEW SIGN STRUCTURE
S-40-3084
STA. 196+60

EXISTING R/W

END CONSTRUCTION RAMP "BRJ"
STA 20+68.89 "BRJ"

WETLAND BOUNDARY

SLOPE INTERCEPT

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN SHEETS	SHEET E

PRE_135

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_050201-PN.DWG
LAYOUT NAME - 050203-pn

PLOT DATE : 10/4/2021 1:48 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

N

THE DITCH BETWEEN 218+35 AND 223+60 WILL BE RE-GRADED TO IMPROVE DRAINAGE. THE SIDESLOPES WILL BE IMPROVED AT THE EXTENT POSSIBLE WITHIN THE EXISTING RIGHT OF WAY.

(SEE CROSS SECTIONS "AUXILIARY LANE - BURLEIGH ST TO CAPITOL DR"

REPLACE EXISTING FENCE

EXISTING R/W

WETLAND BOUNDARY

B-40-358

INSTALL MGS GUARDRAIL

"SEE CROSS SECTIONS "AUXILIARY LANE - BURLEIGH ST TO CAPITOL DR"

NEW SIGN STRUCTURE
S-40-3086
STA. 219+00

SLOPE INTERCEPT

REMOVE EXISTING GUARDRAIL

SB IH 41

NB IH 41

B-40-359

HIGH FRICTION SURFACE TREATMENT
(APPLIED TO TRAVEL LANES AND 3' OF
BOTH INSIDE AND OUTSIDE SHOULDER)

NEW SIGN STRUCTURE
S-40-3085
STA. 221+00

SLOPE INTERCEPT

EXISTING R/W

WATER TOWER

UNION PACIFIC

LEGEND

BASE PATCHING SHES	MILL AND OVERLAY
CONCRETE PAVEMENT REPLACEMENT SHES	PAVEMENT RECONSTRUCTION
CONCRETE PAVEMENT SHES	HIGH FRICTION SURFACE TREATMENT
CONCRETE PAVEMENT APPROACH SLAB HES	CROSS STITCH LONGITUDINAL CRACK
PPC OVERLAY	EXPANSION JOINT REPLACEMENT
CONCRETE DECK OVERLAY	CRASH CUSHION
THIN POLYMER OVERLAY	CONCRETE BARRIER REPLACEMENT
DIAMOND GRINDING	BRIDGE WIDENING

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN SHEETS	SHEET E

PRE_136

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_050201-PN.DWG
LAYOUT NAME - 050204-pn

PLOT DATE : 10/4/2021 1:49 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

SEE BRIDGE PLANS FOR PARAPET REMOVAL DETAILS

B-40-330

20"HD"

20"CF1"

6"CF2"

118"CA"

N

22"CF1"

18"CF2"

120"CA"

B-40-331

B-40-333

REPLACE CONCRETE BARRIER

REPLACE EXISTING FENCE

WETLAND BOUNDARY

EXISTING R/W

SEE BRIDGE PLANS FOR PARAPET REMOVAL DETAILS

CAPITOL SB ENTRANCE RAMP

SB IH 41

NB IH 41

224 226 228 230 232 234 236 238

24"CF1"

20"CF2"

B-40-334

122"CA"

B-40-332

36"CD"

38"CD"

CAPITOL NB EXIT RAMP

SEE BRIDGE PLANS FOR PARAPET REMOVAL DETAILS

REPLACE EXISTING SAND BARRELS WITH CRASH CUSHIONS

EXISTING R/W

HIGH FRICTION SURFACE TREATMENT (APPLIED TO TRAVEL LANES AND 3' OF BOTH INSIDE AND OUTSIDE SHOULDER)

BEGIN CONSTRUCTION RAMP "CD" STA 34+44.88 "CD"

GOLF GREEN

26"CF1"

EB CAPITOL DR

WB CAPITOL DR

124"CA"

28"CF1"

126"C

22"CF2"

24"CF2"

CEMETERY

LEGEND

BASE PATCHING SHES	MILL AND OVERLAY
CONCRETE PAVEMENT REPLACEMENT SHES	PAVEMENT RECONSTRUCTION
CONCRETE PAVEMENT SHES	HIGH FRICTION SURFACE TREATMENT
CONCRETE PAVEMENT APPROACH SLAB HES	CROSS STITCH LONGITUDINAL CRACK
PPC OVERLAY	EXPANSION JOINT REPLACEMENT
CONCRETE DECK OVERLAY	CRASH CUSHION
THIN POLYMER OVERLAY	CONCRETE BARRIER REPLACEMENT
DIAMOND GRINDING	BRIDGE WIDENING

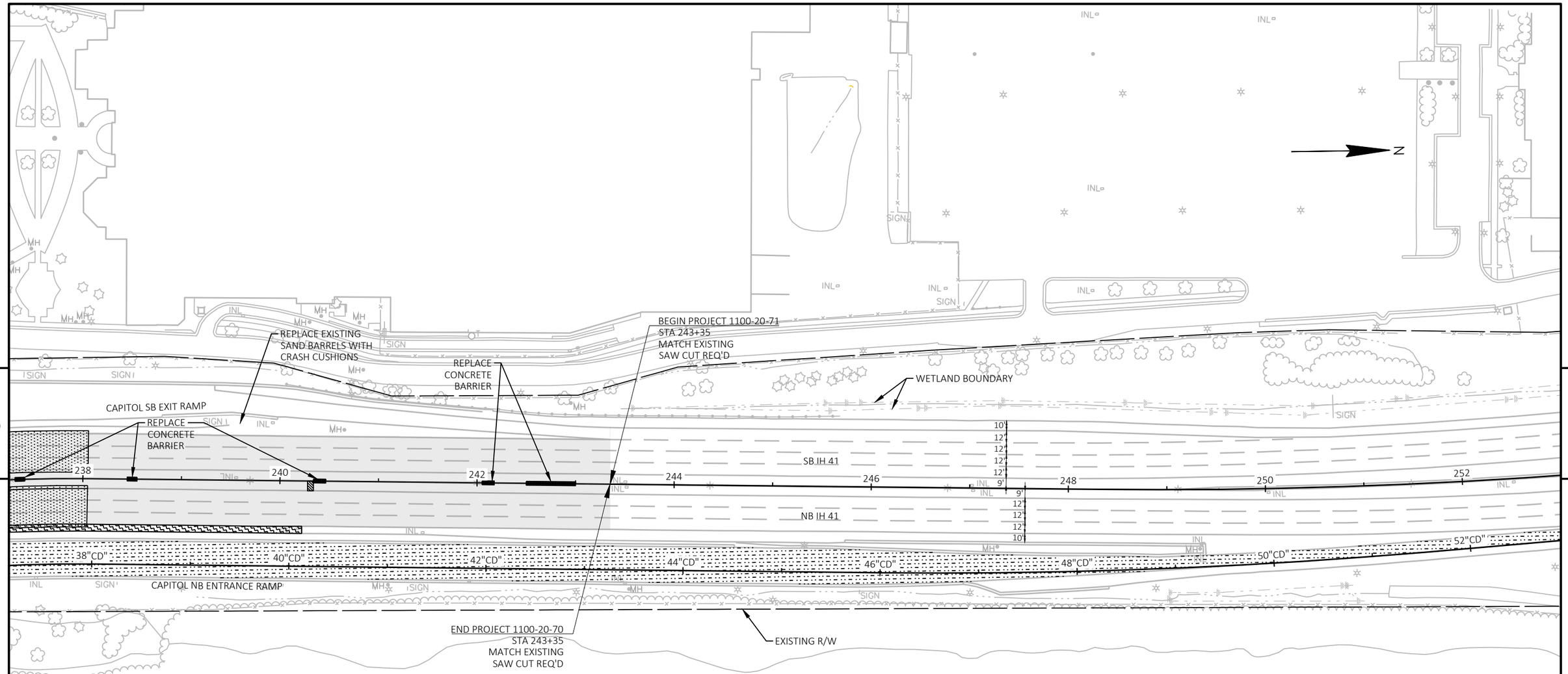
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN SHEETS	SHEET E

PRE_137

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_050201-PN.DWG
LAYOUT NAME - 050205-pn

PLOT DATE : 10/4/2021 1:50 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



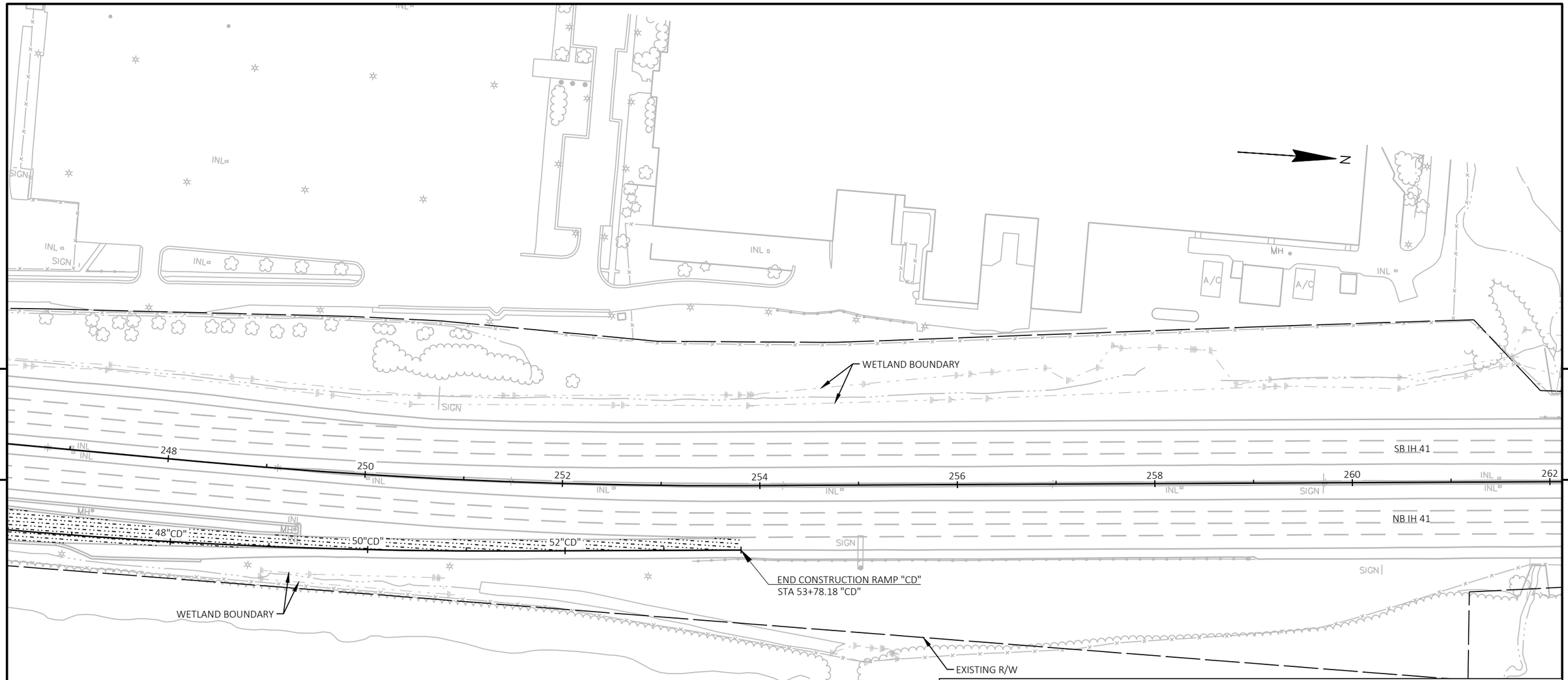
LEGEND

BASE PATCHING SHES	MILL AND OVERLAY
CONCRETE PAVEMENT REPLACEMENT SHES	PAVEMENT RECONSTRUCTION
CONCRETE PAVEMENT SHES	HIGH FRICTION SURFACE TREATMENT
CONCRETE PAVEMENT APPROACH SLAB HES	CROSS STITCH LONGITUDINAL CRACK
PPC OVERLAY	EXPANSION JOINT REPLACEMENT
CONCRETE DECK OVERLAY	CRASH CUSHION
THIN POLYMER OVERLAY	CONCRETE BARRIER REPLACEMENT
DIAMOND GRINDING	BRIDGE WIDENING

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN SHEETS	SHEET E

PRE_138

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_050201-PN.DWG
LAYOUT NAME - 050206-pn
PLOT DATE : 10/4/2021 1:51 PM
PLOT BY : SCHUMACHER, JAMES D
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



5 5

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PLAN SHEETS	SHEET E

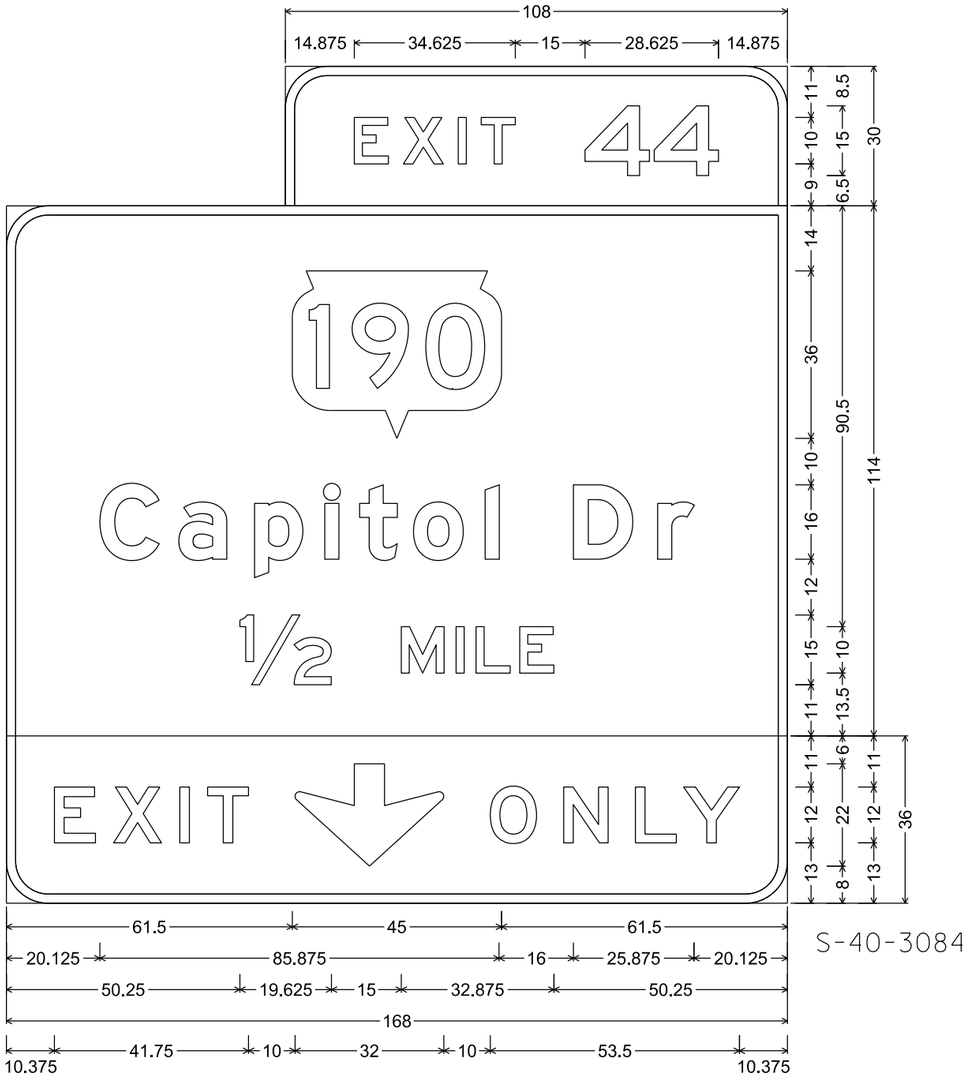
PRE_139

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_050201-PN.DWG
LAYOUT NAME - 050207-pn

PLOT DATE : 10/4/2021 1:52 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:100 FT

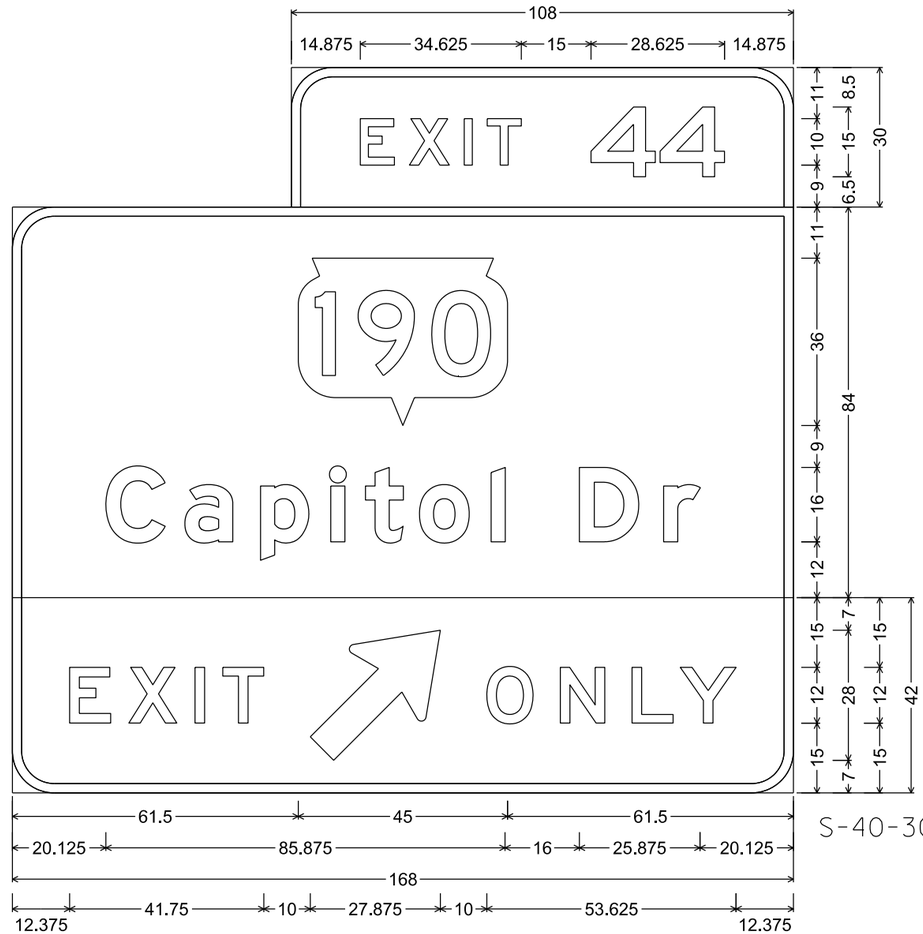
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY panel is on Type F Reflective Sheeting with Black Non-Relective Message



S-40-3084

E1-5P; 9.000" Radius, 2.000" Border,
E6-51; 9.000" Radius, 2.000" Border,
E11-1; 9.000" Radius, 2.000" Border, Black on, Yellow



S-40-3085

E1-5P; 9.000" Radius, 2.000" Border,
E6-1; 9.000" Radius, 2.000" Border,
E11-1D; 9.000" Radius, 2.000" Border, Black on, Yellow

7

7

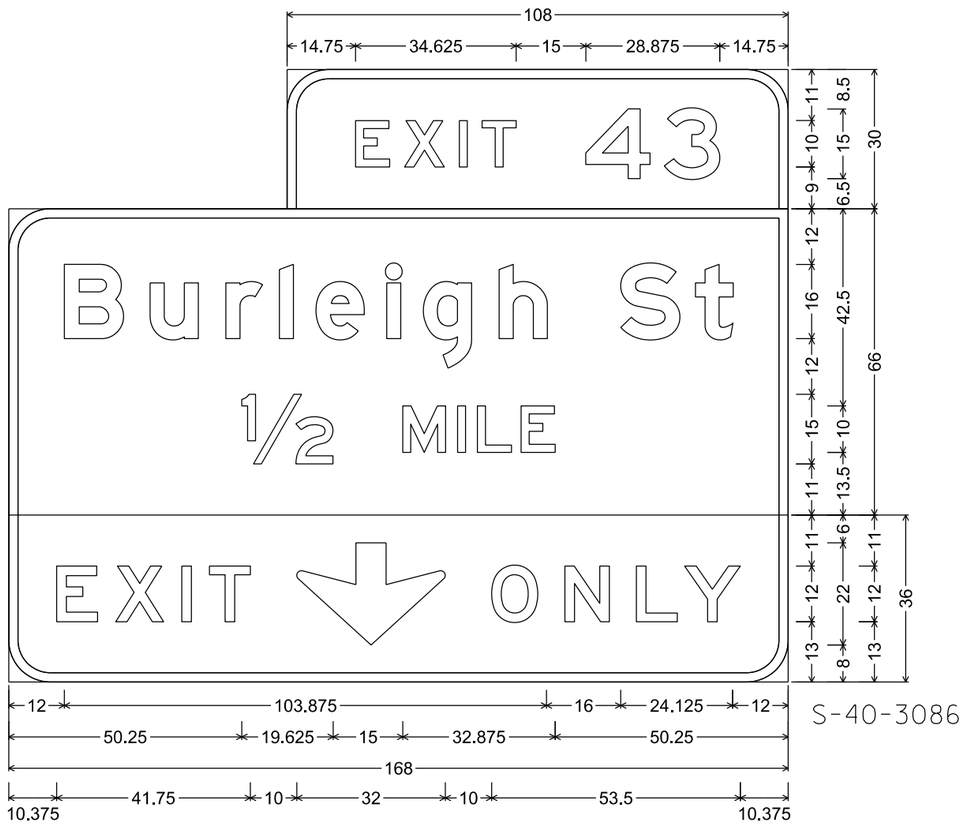
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO	E

FILE NAME : C:\CAEfiles\Projects\tr_d2_2676bd20.dgn PLOT DATE : 8-DEC 2020 8:45 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PR

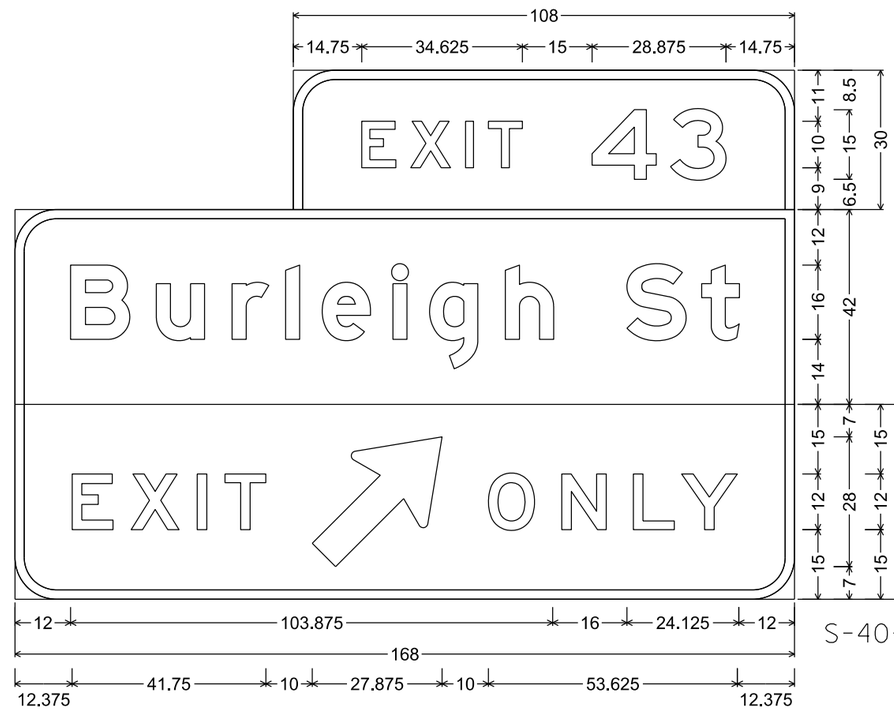
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY panel is on Type F Reflective Sheeting with Black Non-Relective Message



S-40-3086

E1-5P; 9.000" Radius, 2.000" Border,
E6-51; 9.000" Radius, 2.000" Border,
E11-1; 9.000" Radius, 2.000" Border, Black on, Yellow



S-40-3087

E1-5P; 9.000" Radius, 2.000" Border,
E6-1; 9.000" Radius, 2.000" Border,
E11-1D; 9.000" Radius, 2.000" Border, Black on, Yellow

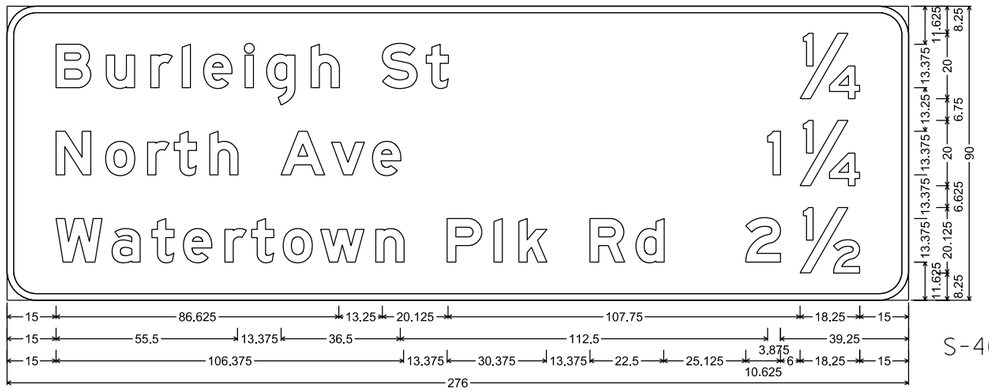
7

7

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO	E

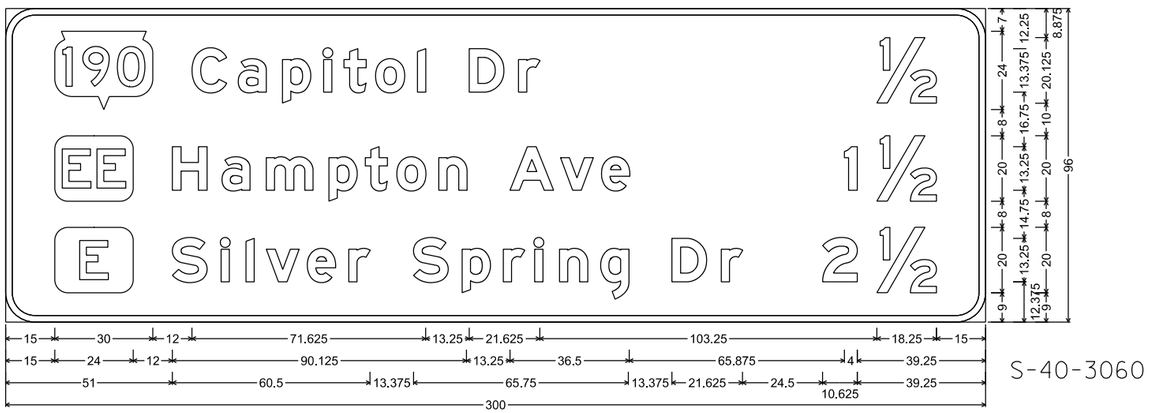
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E



S-40-3060

E8-1; 9.000" Radius, 2.000" Border



S-40-3060

E8-1; 9.000" Radius, 2.000" Border

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO	E

FILE NAME : C:\CAEfiles\Projects\tr_d2_2405ao20.dgn PLOT DATE : 22-SEPT 2021 12:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

PR

DESIGN DATA

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS

STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I:	(MAX DC): 1.1 DC + 1.0 W + 1.0 ICE
EXTREME I:	(MIN DC): 0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)
	1.0 TRG (TRUCK INDUCED GUST VIBRATION)

MATERIAL PROPERTIES

CONCRETE MASONRY ——— f'_c = 3,500 PSI

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ——— f_y = 60,000 PSI

STRUCTURAL ANGLES, PLATE AND BARS - ASTM A709 GRADE 36 ——— f_y = 36,000 PSI

CHORDS - ASTM A500 GRADE C ——— f_y = 46,000 PSI

COLUMN PIPE - ASTM A500 GRADE C ——— f_y = 46,000 PSI

HIGH STRENGTH BOLTS - A325 ——— f_y = 92,000 PSI

ANCHOR RODS - ASTM F1554 GRADE 55

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE, ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), XXXX COUNTY ZONE, NAD 83 (1997). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "TRUSS FULL SPAN 4-CHORD (TYPE)" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

CATWALKS ARE USED ON 4-CHORD STRUCTURES CARRYING DMS SIGNS. CATWALKS SHALL BE INCIDENTAL TO THE BID ITEM "TRUSS FULL SPAN 4-CHORD (TYPE)" FOR EACH DMS SIGN STRUCTURE IN THE PLAN SET.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT (DIA)".

STRUCTURE DESIGN DATA

STRUCTURE ID	SIGN AREA	MAX. DEPTH	DMS WEIGHT	STANDARD DESIGN
S-40-462	234 SF	9'-0"	3,500 LB	TYPE II

STATE PROJECT NUMBER

1100-20-70

TRAFFIC VOLUME

IH 41 NB

A.D.T. (2041) = 169,300
R.D.S. = 60 MPH

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S-40-462	TOTALS
203.0246.01	REMOVE ANCILLARY STRUCTURE (S-40-400)	EACH	1	1
531.2036	DRILLING SHAFT 36-INCH	LF	88	88
531.6120	FOUNDATION TWO-SHAFT TYPE FF-II	EACH	2	2
532.6120	TRUSS FULL SPAN 4-CHORD TYPE II	EACH	1	1

LIST OF DRAWINGS:

1. GENERAL NOTES & DESIGN DATA
2. LAYOUT S-40-462

LIST OF STANDARD DRAWINGS

3. I. 4-CHORD TRUSS FULL SPAN TRUSS DETAILS
4. II. 4-CHORD TRUSS FULL SPAN COLUMN DETAILS
5. III. 4-CHORD TRUSS FULL SPAN CONNECTIONS 1
6. IV 4-CHORD TRUSS FULL SPAN CONNECTIONS 2
7. V. 4-CHORD TRUSS FULL SPAN CATWALK DETAILS
8. VI. 4-CHORD TRUSS FULL SPAN ELECTRICAL DETAILS
9. VII. 4-CHORD TRUSS FULL SPAN FOUNDATIONS 1
10. VIII. 4-CHORD TRUSS FULL SPAN FOUNDATIONS 2

STRUCTURE DESIGN CONTACTS:

AARON BONK 608-261-0261
STEVEN DOOCY 608-261-6063

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

4-CHORD FULL SPAN TRUSS PLANS

IH-41 ZOO FREEWAY

COUNTY	CITY
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
AASHTO LRFD-LTS1 W/ INTERIM REVISIONS

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
SAD		SAD	

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 11

PRE_143

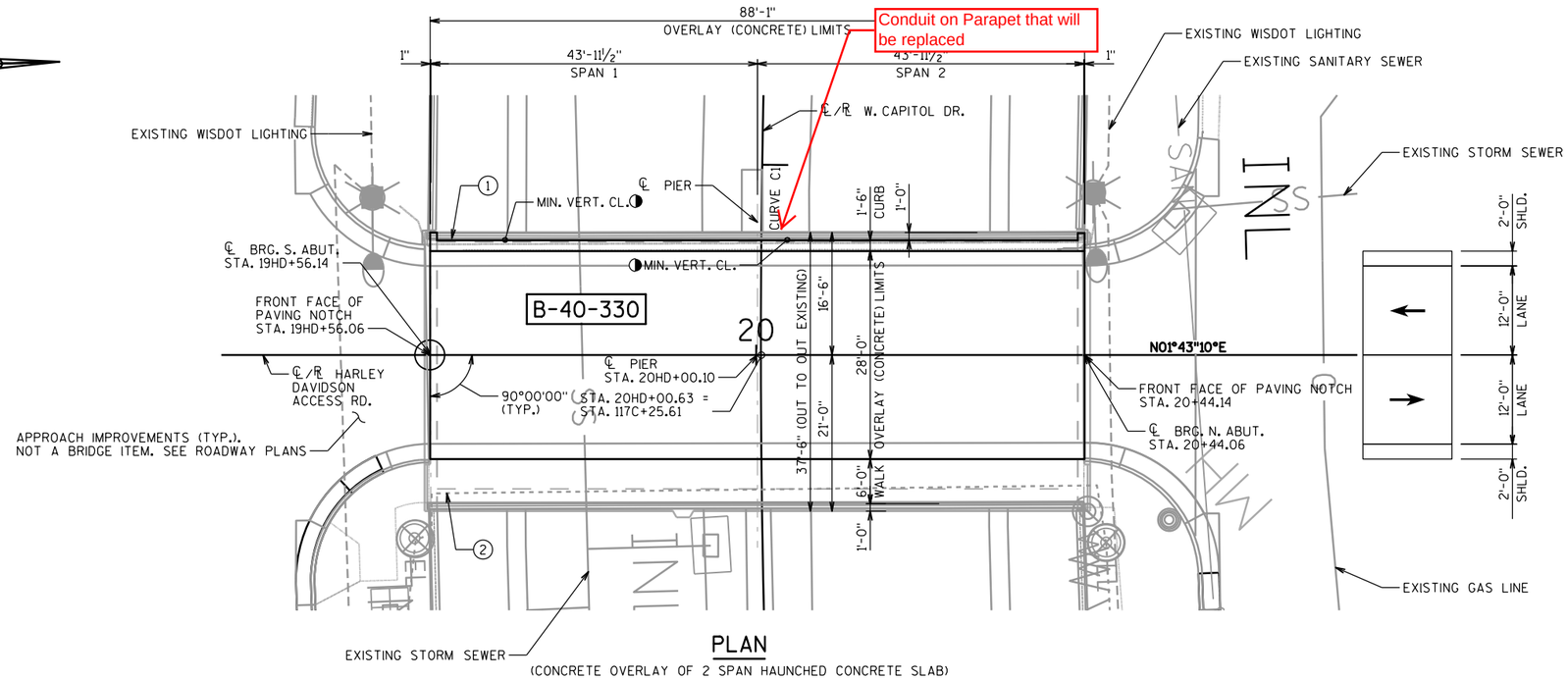
I.D. 1100-20-00 DATE: JUNE 2021

SCALE = 1

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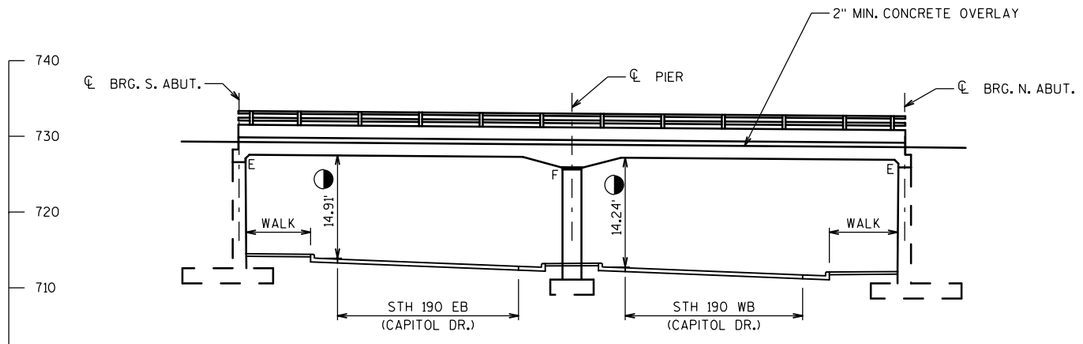
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STATE PROJECT NUMBER
1100-20-70



PLAN

(CONCRETE OVERLAY OF 2 SPAN HAUNCHED CONCRETE SLAB)



ELEVATION

(LOOKING WEST)

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES AND QUANTITIES

LEGEND

- TRAFFIC DIRECTION
- LOCATION PER EXISTING PLANS AND MIN. CLEARANCE TAKEN FROM HSI SYSTEM 2-10-2017
- (1) EXISTING WISDOT LIGHTING CONDUITS ATTACHED TO PARAPET TO REMAIN. TEMPORARILY SUPPORT DURING PARAPET REPLACEMENT. <<VERIFY FOR FINAL DESIGN>>
- (2) EXISTING WISDOT FTMS FIBERGLASS CONDUITS ATTACHED TO PARAPET TO REMAIN.

HORIZONTAL CURVE DATA

STH 190 CAPTIOL DR.

P.I. = 117C+55.13
Y = 317934.58
X = 565941.05
Δ = 12° 00'00"
D = 3° 30'00"
T = 172.06'
L = 342.86'
R = 1637.02'
P.C. = 115C+83.07
Y = 317954.52
X = 565770.16
P.T. = 119C+25.93
Y = 317950.60
X = 566112.36

TRAFFIC DATA

HARLEY DAVIDSON ACCESS RD.

EXISTING A.D.T. = 1,297 (2014)
FUTURE A.D.T. = 1,500 (2040)
R.D.S. = 35 M.P.H.

STH 190/CAPITOL DR.

EXISTING A.D.T. = 21,700 (2010)
FUTURE A.D.T. = 25,000 (2040)
R.D.S. = 50 M.P.H.

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi

1078 SUBMITTAL

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB
250 E. WISCONSIN AVE. #2000
MILWAUKEE, WI 53202
(414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-330

HARLEY DAVIDSON ACCESS RD. OVER STH 190

COUNTY	TOWN/CITY/~~VILLAGE~~
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
SSG		SSG	

GENERAL PLAN AND ELEVATION

SHEET 1 OF 2

PRE_144

STATE PROJECT NUMBER
1100-20-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).

"PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

CLEAN AND APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP AND VERTICAL FACES OF THE SIDEWALKS AND CURBS, PAID FOR UNDER "PROTECTIVE SURFACE TREATMENT RESEAL".

"PIGMENTED SURFACE SEALER" SHALL BE APPLIED TO THE TOP AND INSIDE FACES OF NEW PARAPET.

CLEAN AND APPLY PIGMENTED SURFACE SEALER TO THE TOP AND INSIDE FACES OF THE EXISTING PARAPET. PAID FOR UNDER "PIGMENTED SURFACE SEALER RESEAL".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS". <AREAS TO BE ADDED FOR FINAL PLANS>

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE ITEMS ARE APPROXIMATE.
- REMOVING LOOSE CONCRETE
- CURB REPAIR

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

REMOVE EXISTING POLYMER OVERLAY AND EXISTING CONCRETE MASONRY OVERLAY FROM THE ENTIRE BRIDGE SLAB UNDER THE BID ITEM "REMOVING CONCRETE MASONRY OVERLAY "B-40-330".

NO MORE THAN ONE-THIRD OF THE TOP BAR STEEL SHALL BE EXPOSED LONGITUDINALLY AT THE SAME TIME.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1½" CLEAR.

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS ½" TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2" PLACED ABOVE THE SLAB SURFACE AFTER SURFACE PREPARATION. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 2½". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.

NEW CONCRETE FOR PARAPET REPLACEMENT IS PAID FOR AS "CONCRETE MASONRY BRIDGES".

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNELSS OTHERWISE SHOWN OR NOTED.

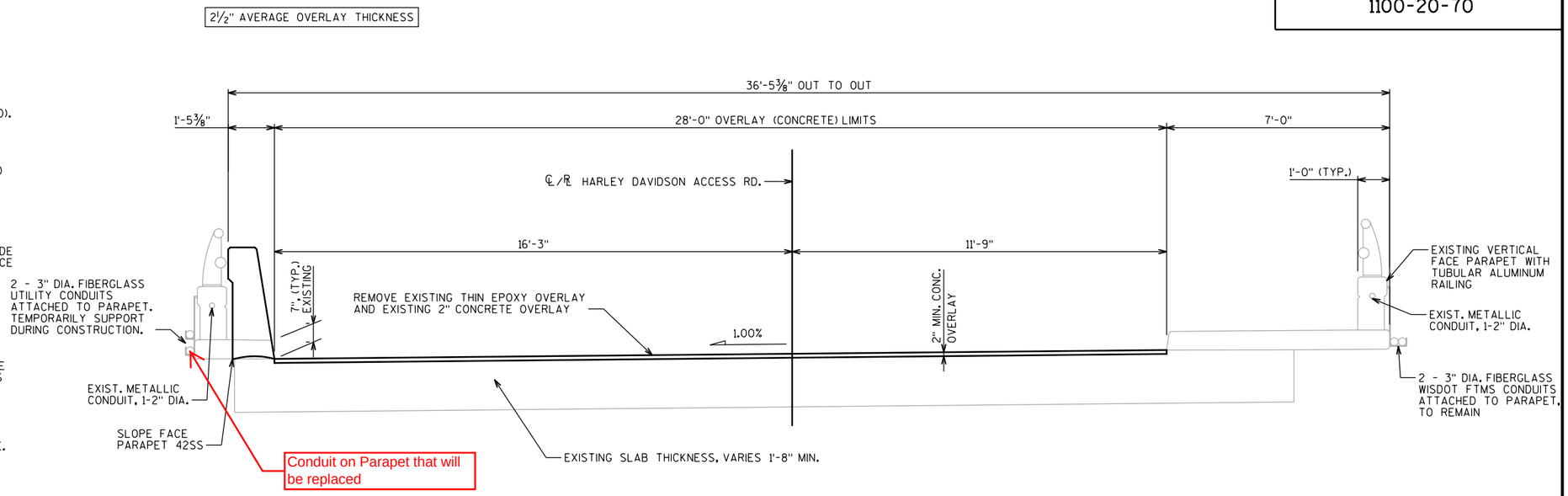
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

UNDER THE BID ITEM "ADHESIVE ANCHORS NO. 6 BAR", ANCHORD REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

THE UTILITY AND STORM SEWER INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

PROPOSED ROADWAY STAGING CALLS FOR BRIDGE CLOSURE DURING OVERLAY AND SLAB WORK.



TYPICAL SECTION

(LOOKING NORTH)
<<TYPE AND DISPOSITION OF CONDUITS WITHIN AND ATTACHED TO PARAPETS TBD IN FINAL DESIGN>>

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0211.S.XX	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-40-330	EACH	
502.0100	CONCRETE MASONRY BRIDGES	CY	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.3215	PROTECTIVE SURFACE TREATMENT RESEAL	SY	
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	
509.1200	CURB REPAIR	LF	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-330	SY	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
SPV.0165.XX	REMOVING LOOSE CONCRETE	SF	

ALL ITEMS ARE CATEGORY XXXX

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-330

DRAWN BY SSG | PLANS CK'D.

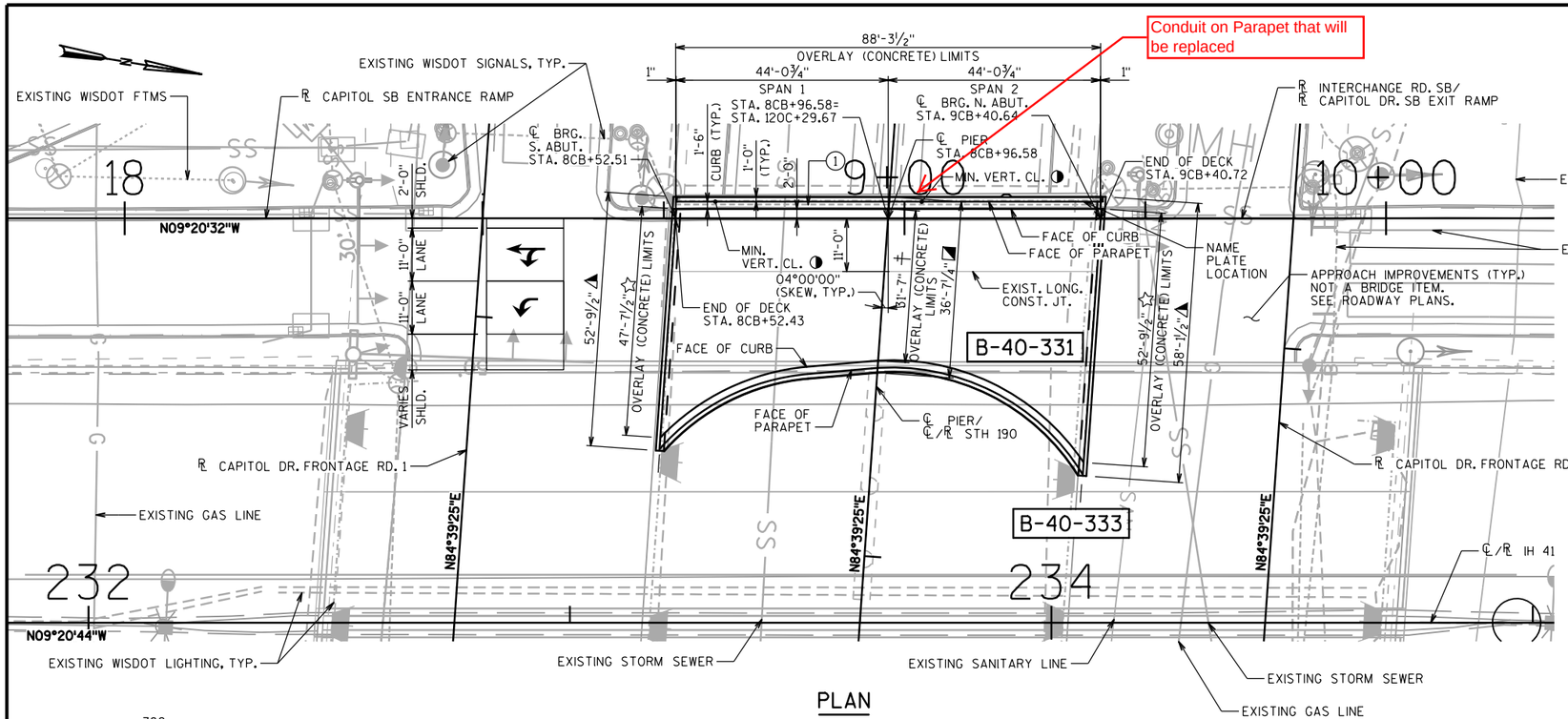
TYPICAL SECTION, GENERAL NOTES AND QUANTITIES

SHEET 2 OF 2

PRE_145

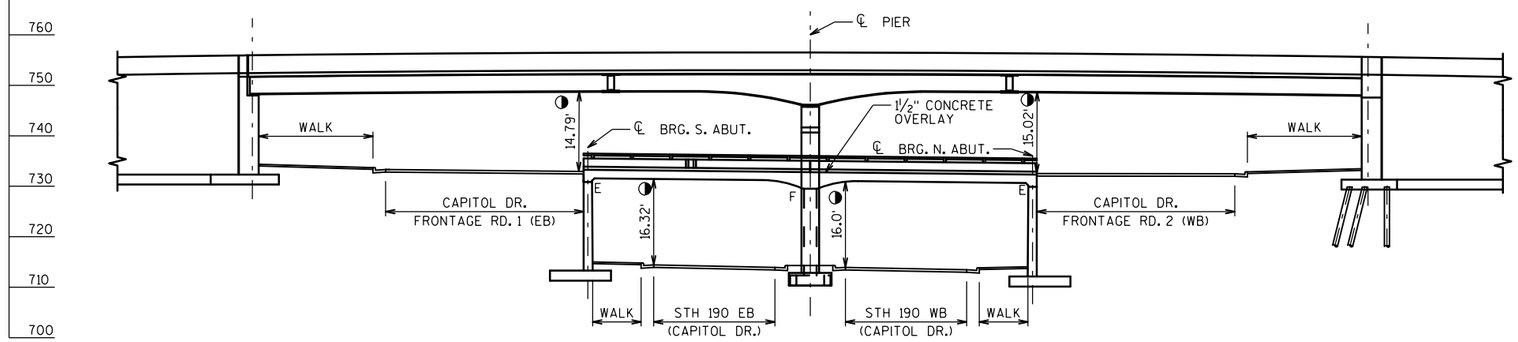
1078 SUBMITTAL

STATE PROJECT NUMBER
1100-20-70



PLAN

(CONCRETE OVERLAY OF 2 SPAN HAUNCHED CONCRETE SLAB)



ELEVATION

(LOOKING WEST)

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES AND QUANTITIES

LEGEND

- TRAFFIC DIRECTION
- LOCATION PER EXISTING PLANS AND MIN. CLEARANCE TAKEN FROM HSI SYSTEM 2-10-2017
- EDGE OF SLAB TO EDGE OF SLAB, MEASURED ALONG B.F. ABUTMENT
- FACE OF CURB TO FACE OF CURB, MEASURED ALONG B.F. ABUTMENT
- EDGE OF SLAB TO EDGE OF SLAB, MEASURED ALONG ℄ PIER
- FACE OF CURB TO FACE OF CURB, MEASURED ALONG ℄ PIER
- (1) EXISTING WISDOT LIGHTING AND SIGNALS CONDUITS ATTACHED TO FACE OF PARAPET, TO REMAIN. TEMPORARILY SUPPORT DURING PARAPET REPLACEMENT.

TRAFFIC DATA

INTERCHANGE RD. SB

EXISTING A.D.T. = 4,054 (2014)
FUTURE A.D.T. = 4,600 (2040)
R.D.S. = 35 M.P.H.

STH 190-CAPITOL DR.

EXISTING A.D.T. = 21,700 (2010)
FUTURE A.D.T. = 25,000 (2040)
R.D.S. = 50 M.P.H.

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi

1078 SUBMITTAL

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
HNTB
250 E. WISCONSIN AVE. #2000
MILWAUKEE, WI 53202
(414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-331

INTERCHANGE ROAD SB IH 41 - STH 80 OVER STH 190

COUNTY	TOWN/CITY/VILLAGE
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
SSG		SSG	

GENERAL PLAN AND ELEVATION

SHEET 1 OF 2

PRE_146

FILE NAME : \\milw00\ingrproj\79555\b1\1100-20-70\B-40-331\cds\331_080101_gp.dgn
PLOT DATE : 10/7/2021 9:39:04 AM PLOT BY : HAnders
PLOT SCALE : 30:1

STATE PROJECT NUMBER

1100-20-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).

"PIGMENTED SURFACE SEALER" SHALL BE APPLIED TO THE TOP AND INSIDE FACES OF PARAPETS.

"PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS". <AREAS TO BE ADDED FOR FINAL DESIGN>

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE ITEMS ARE APPROXIMATE.
- REMOVING LOOSE CONCRETE

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

REMOVE EXISTING CONCRETE MASONRY OVERLAY FROM THE ENTIRE BRIDGE SLAB UNDER THE BID ITEM "REMOVING CONCRETE MASONRY OVERLAY B-40-331".

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS 1/2" TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1 1/2" PLACED ABOVE THE SLAB SURFACE AFTER SURFACE PREPARATION. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 1 3/4". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.

NEW CONCRETE FOR PARAPET REPLACEMENT IS PAID FOR AS "CONCRETE MASONRY BRIDGES."

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

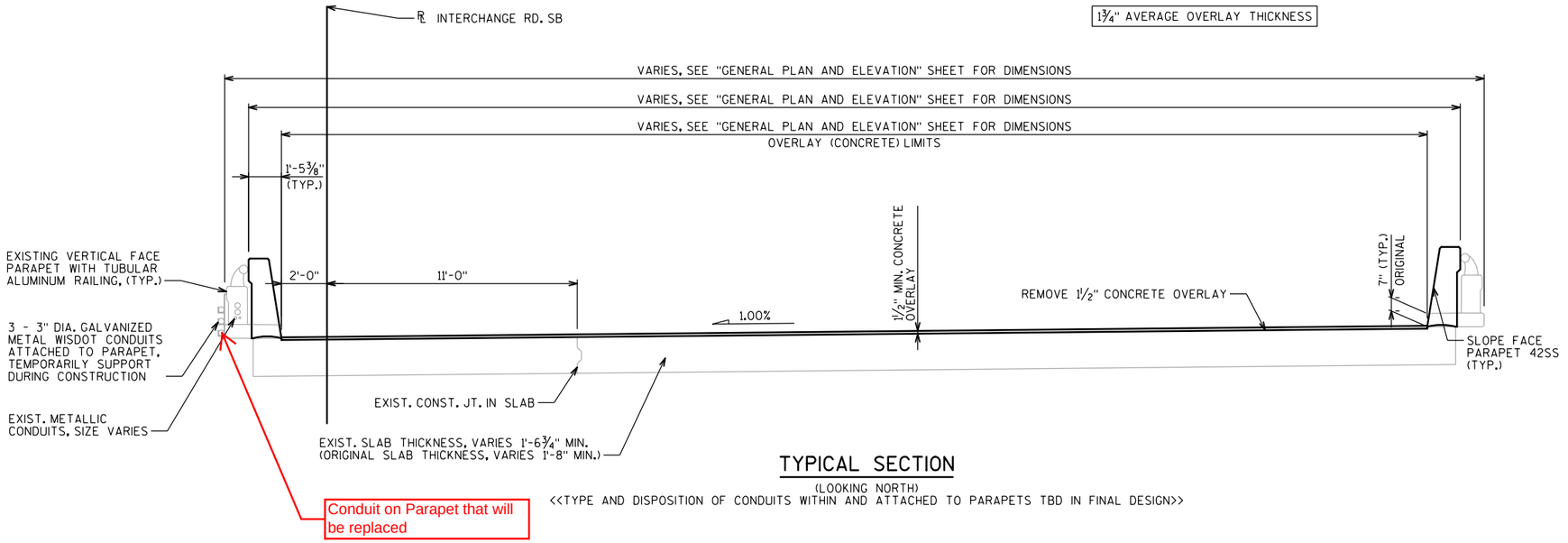
UNDER THE BID ITEM "ADHESIVE ANCHORS NO. 6 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFOCEMENT.

THE UTILITY AND STORM SEWER INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION AS MAY BE NECESSARY TO AVOID DAMAGE.

NO MORE THAN ONE-THIRD OF THE TOP BAR STEEL SHALL BE EXPOSED LONGITUDINALLY AT THE SAME TIME.

PROPOSED ROADWAY STAGING CALLS FOR BRIDGE CLOSURE DURING OVERLAY AND SLAB WORK.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR.



TYPICAL SECTION

(LOOKING NORTH)

<<TYPE AND DISPOSITION OF CONDUITS WITHIN AND ATTACHED TO PARAPETS TBD IN FINAL DESIGN>>

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0211.S.XX	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-40-331	EACH	
502.0100	CONCRETE MASONRY BRIDGES	CY	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-331	SY	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
SPV.0165.XX	REMOVING LOOSE CONCRETE	SF	
	NON-BID ITEMS		
	NAME PLATE	EACH	1

ALL ITEMS ARE CATEGORY XXXX

1078 SUBMITTAL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-331

DRAWN BY SSG | PLANS CK'D.

TYPICAL SECTION, GENERAL NOTES AND QUANTITIES

SHEET 2 OF 2

PRE_147

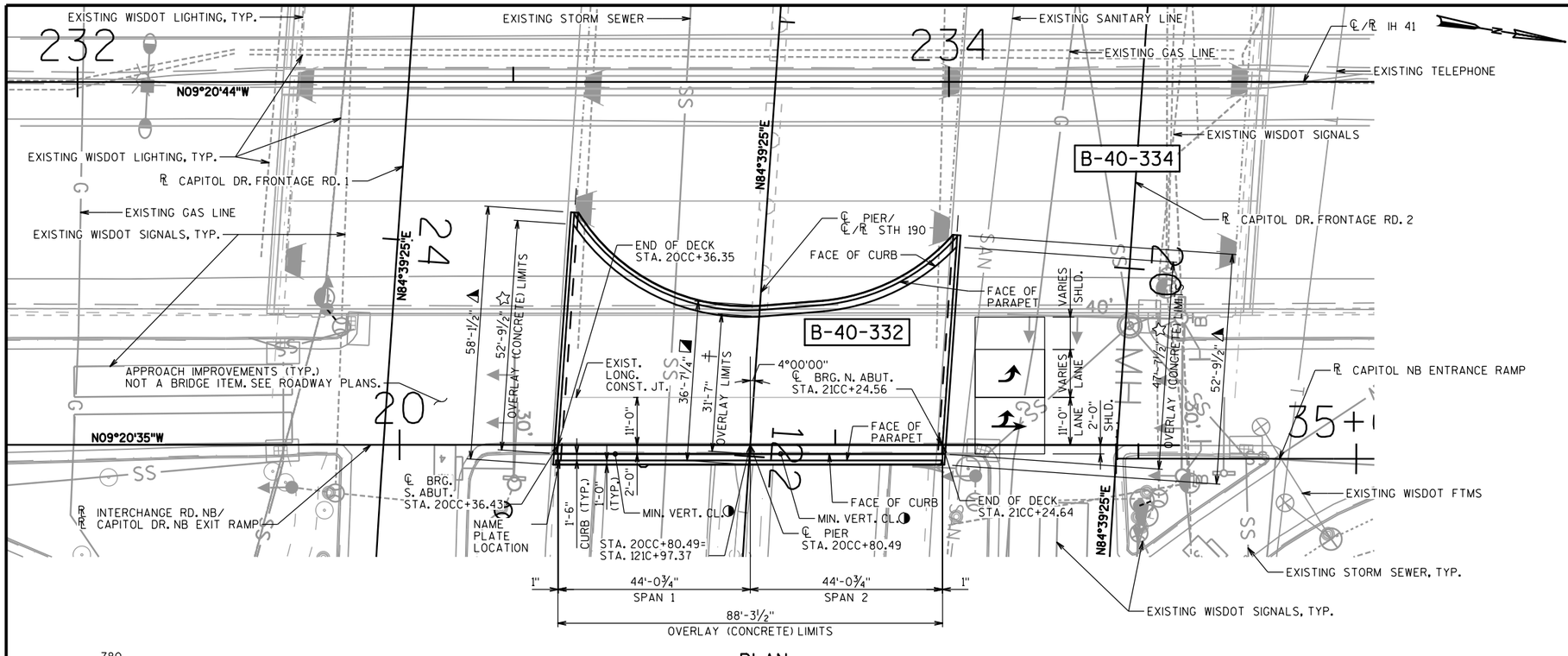
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STATE PROJECT NUMBER
1100-20-70

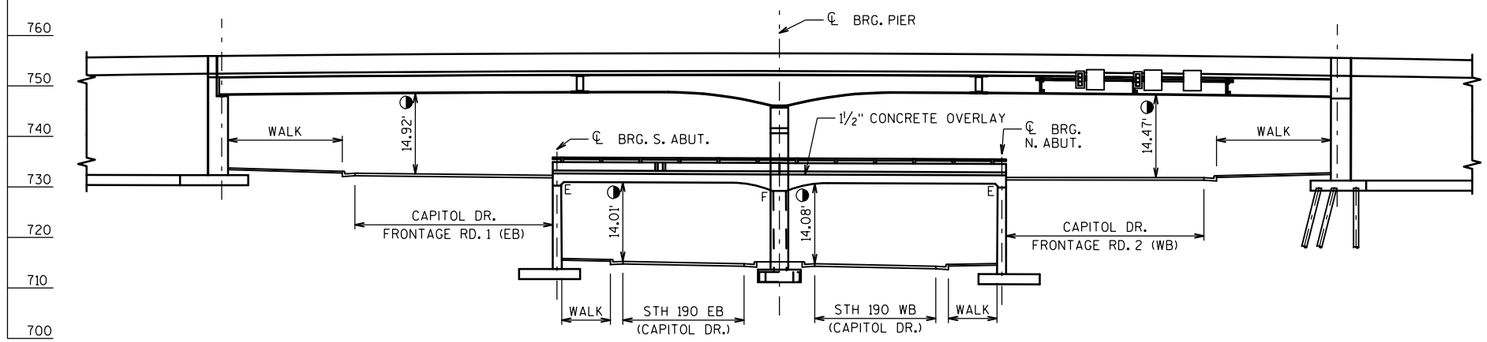
LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES AND QUANTITIES



PLAN

(CONCRETE OVERLAY OF 2 SPAN HAUNCHED CONCRETE SLAB)



ELEVATION

(LOOKING WEST)

LEGEND

- TRAFFIC DIRECTION
- LOCATION PER EXISTING PLANS AND MIN. CLEARANCE TAKEN FROM HSI SYSTEM 2-10-2017
- EDGE OF SLAB TO EDGE OF SLAB, MEASURED ALONG B.F. ABUTMENT
- FACE OF CURB TO FACE OF CURB, MEASURED ALONG B.F. ABUTMENT
- EDGE OF SLAB TO EDGE OF SLAB, MEASURED ALONG ℄ PIER
- FACE OF CURB TO FACE OF CURB, MEASURED ALONG ℄ PIER

TRAFFIC DATA

INTERCHANGE RD. NB

EXISTING A.D.T. = 13,485 (2014)
FUTURE A.D.T. = 15,200 (2040)
R.D.S. = 35 M.P.H.

STH 190-CAPITOL DR.

EXISTING A.D.T = 21,700 (2010)
FUTURE A.D.T. = 25,000 (2040)
R.D.S. = 50 M.P.H.

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE..... f'c = 4,000 psi
ALL OTHER..... f'c = 3,500 psi

1078 SUBMITTAL

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB 250 E. WISCONSIN AVE. #2000 MILWAUKEE, WI 53202 (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-332

INTERCHANGE ROAD NB IH 41 - STH 190 OVER STH 190

COUNTY	TOWN/CITY/~~VILLAGE~~
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
SSG		SSG	

GENERAL PLAN AND ELEVATION

SHEET 1 OF 2

PRE_148

FILE NAME : \\milw00\ingrproj\79555\b1\1100-20-70\B-40-332\cds\332_080101_gp.dgn PLOT DATE : 9/27/2021 11:14:46 AM PLOT BY : HAnders PLOT SCALE : 30:1

STATE PROJECT NUMBER
1100-20-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).

"PIGMENTED SURFACE SEALER" SHALL BE APPLIED TO THE TOP AND INSIDE FACES OF PARAPETS.

"PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS". <AREAS TO BE ADDED FOR FINAL DESIGN>

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE ITEMS ARE APPROXIMATE.
- REMOVING LOOSE CONCRETE

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

REMOVE EXISTING CONCRETE MASONRY OVERLAY FROM THE ENTIRE BRIDGE SLAB UNDER THE BID ITEM "REMOVING CONCRETE MASONRY OVERLAY B-40-331".

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS ½" TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1½" PLACED ABOVE THE SLAB SURFACE AFTER SURFACE PREPARATION. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 1¾". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.

NEW CONCRETE FOR PARAPET REPLACEMENT IS PAID FOR AS "CONCRETE MASONRY BRIDGES."

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

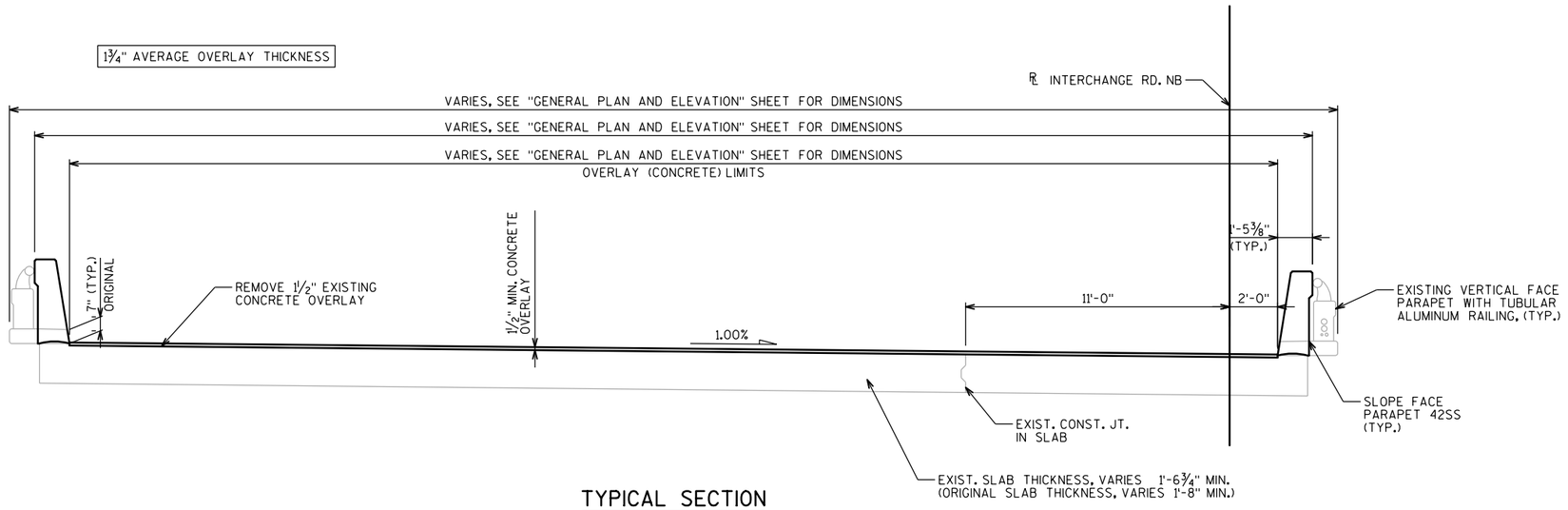
UNDER THE BID ITEM "ADHESIVE ANCHORS NO. 6 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFOCEMENT.

THE UTILITY AND STORM SEWER INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION AS MAY BE NECESSARY TO AVOID DAMAGE.

NO MORE THAN ONE-THIRD OF THE TOP BAR STEEL SHALL BE EXPOSED LONGITUDINALLY AT THE SAME TIME.

PROPOSED ROADWAY STAGING CALLS FOR BRIDGE CLOSURE DURING OVERLAY AND SLAB WORK.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR.



TYPICAL SECTION

(LOOKING NORTH)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0210.S.XX	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-40-332	LS	
502.0100	CONCRETE MASONRY BRIDGES	CY	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-332	SY	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
SPV.0165.XX	REMOVING LOOSE CONCRETE	SF	
	NON-BID ITEMS		
	NAME PLATE	EACH	1

ALL ITEMS ARE CATEGORY XXXX

1078 SUBMITTAL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-332

DRAWN BY SSG | PLANS CK'D.

TYPICAL SECTION, GENERAL NOTES AND QUANTITIES

SHEET 2 OF 2

PRE_149

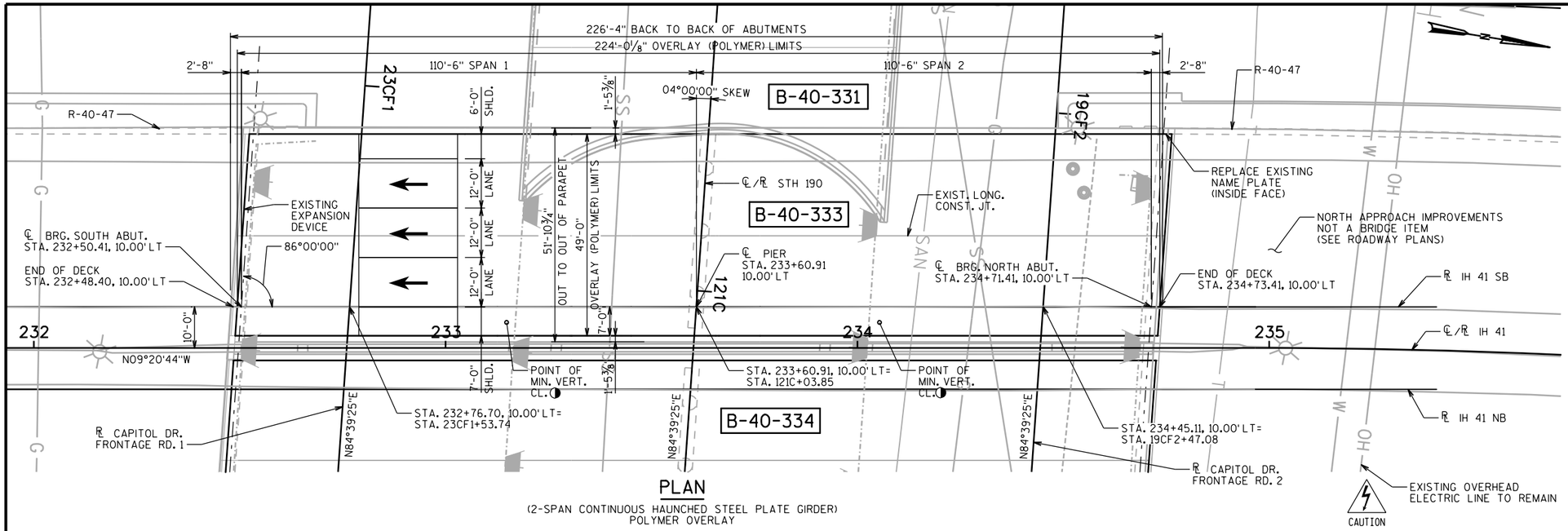
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STATE PROJECT NUMBER
1100-20-70

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES, AND QUANTITIES



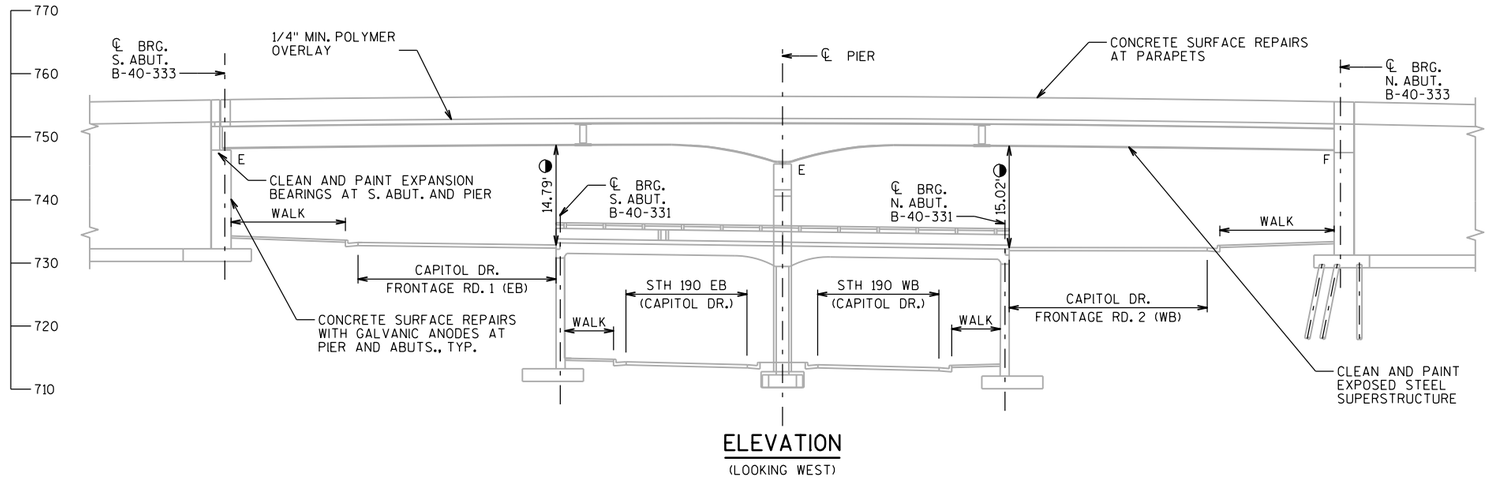
PLAN

(2-SPAN CONTINUOUS HAUNCHED STEEL PLATE GIRDER)
POLYMER OVERLAY

LEGEND

TRAFFIC DIRECTION

CLEARANCE DIMENSION TAKEN FROM HSIS; MEASUREMENT TAKEN 9/13/2016. LOCATION PER EXISTING PLANS.



ELEVATION

(LOOKING WEST)

TRAFFIC DATA

IH 41 SB

EXISTING A.D.T. = 61,090 (2019)
FUTURE A.D.T. = 69,413 (2040)
R.D.S. = 60 M.P.H.

INTERCHANGE RD. EB

EXISTING A.D.T. = 18,144 (2014)
FUTURE A.D.T. = 20,500 (2040)
R.D.S. = 35 M.P.H.

INTERCHANGE RD. WB

EXISTING A.D.T. = 18,144 (2014)
FUTURE A.D.T. = 20,500 (2040)
R.D.S. = 35 M.P.H.

STH 190-CAPITOL DR.

EXISTING A.D.T. = 43,200 (2020)
FUTURE A.D.T. = 47,300 (2040)
R.D.S. = 50 M.P.H.

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi

1078 SUBMITTAL

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB
250 E. WISCONSIN AVE. #2000
MILWAUKEE, WI 53202
(414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-333

IH 41 SB OVER RAMP IH 41 - STH 190

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
HDA	EAJ	SSG	EAJ

GENERAL PLAN AND ELEVATION

SHEET 1 OF 2

PRE_150

8

8

STATE PROJECT NUMBER
1100-20-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS AND DIMENSIONS ARE BASED OFF EXISTING PLANS. MATCH EXISTING ELEVATIONS AND DIMENSIONS.

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

"PREPARATION DECKS TYPE 1" QUANTITIES ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. DECK PREPARATION AREAS SHALL BE FILLED WITH "RAPID SET DECK REPAIR".

DECK REPAIRS SHALL BE FILLED PRIOR TO OVERLAY PLACEMENT. REPAIRS USING A PORTLAND CEMENT BASED CONCRETE REQUIRES A MINIMUM CURE TIME OF 28 DAYS PRIOR TO OVERLAY PLACEMENT.

SHOT BLASTING, DECK SURFACE PREPARATIONS, AND TRANSITIONAL AREAS ARE INCLUDED IN THE BID ITEM "POLYMER OVERLAY."

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

CLEAN AND PAINT ALL EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CONNECTIONS, EXPANSION BEARINGS AT THE SOUTH ABUTMENT AND PIER, ETC. ALL CLEANING AND PAINTING TO BE PAID FOR AS "STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-333". PAINT APPLICATIONS ON THE BEARINGS SHALL BE BRUSHED ON.

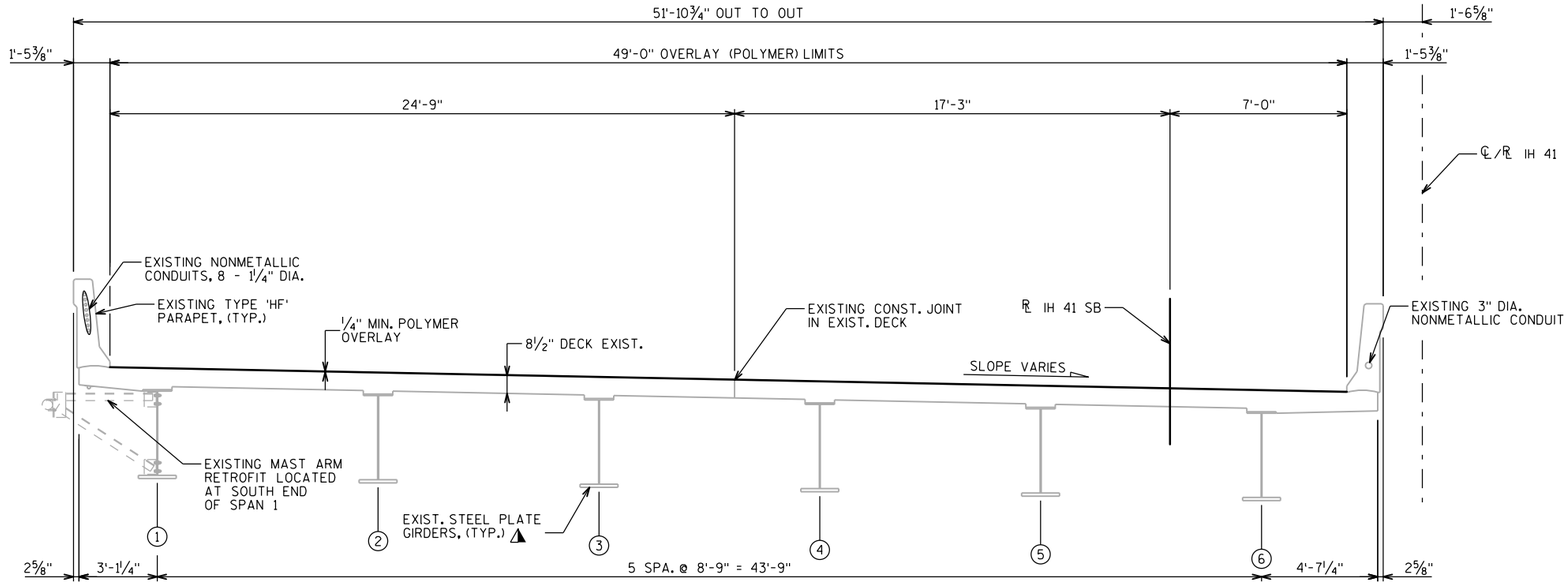
EXISTING STEEL SUPERSTRUCTURE SHALL BE PAINTED, SHERWIN WILLIAMS COLOR SW6523 OR EQUAL.

THE UTILITY AND STORM SEWER INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION AS MAY BE NECESSARY TO AVOID DAMAGE.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE TOP AND INSIDE FACE OF EXISTING PARAPETS FOR THE FULL LENGTH OF THE BRIDGE. SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "PIGMENTED SURFACE SEALER RESEAL". APPLY RESEAL AFTER ALL CONCRETE SURFACE REPAIRS TO PARAPETS HAVE BEEN COMPLETED.

THE CONTRACTOR SHALL SUPPLY AND INSTALL A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR OF 1967 AND SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE SURFACE REPAIR".

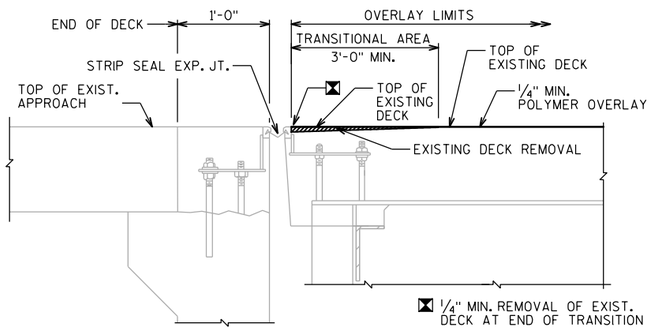
DECK AND PARAPET REPAIRS MAY BE PERFORMED DURING STAGE I AND II LONG-TERM CLOSURES FOR ROADWAY WORK. POLYMER OVERLAY TO BE PLACED DURING NIGHT-TIME ONLY CLOSURES. SEE ROADWAY PLANS FOR COMPLETE STAGING INFORMATION.



TYPICAL SECTION

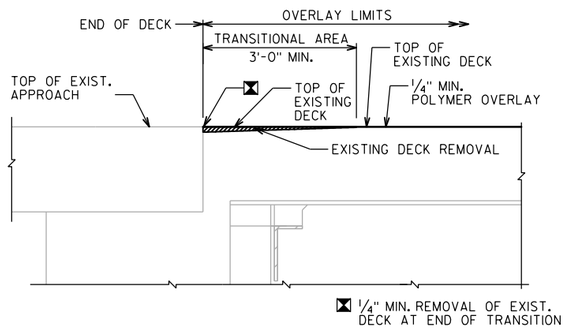
(LOOKING NORTH)

◭ 40" WEBS TYPICAL, 72" WEB MAX. AT PIER



SECTION THRU SOUTH ABUTMENT TRANSITIONAL AREA ON DECK AT EXPANSION JOINT

(REMOVAL AND OVERLAY THICKNESS NOT TO SCALE)



SECTION THRU NORTH ABUTMENT TRANSITIONAL AREA ON DECK AT FIXED JOINT

(REMOVAL AND OVERLAY THICKNESS NOT TO SCALE)

NOTE: TRANSITIONAL AREA REQUIRED WHEN APPROACH PAVEMENT HAS BEEN PLACED PRIOR TO OVERLAY PLACEMENT.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
502.3205	PIGMENTED SURFACE SEALER RESEAL	SF	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.5100.S	POLYMER OVERLAY	SY	
517.1801.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-333	EACH	1
517.4501.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-333	EACH	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1
SPV.0035.4000	RAPID SET DECK REPAIR	CY	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
	NON-BID ITEMS		
	NAME PLATE	EACH	1

ALL ITEMS ARE CATEGORY XXXX

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-333

DRAWN BY SSG | PLANS CK'D. HDA

TYPICAL SECTION, GENERAL NOTES, AND QUANTITIES

SHEET 2 OF 2

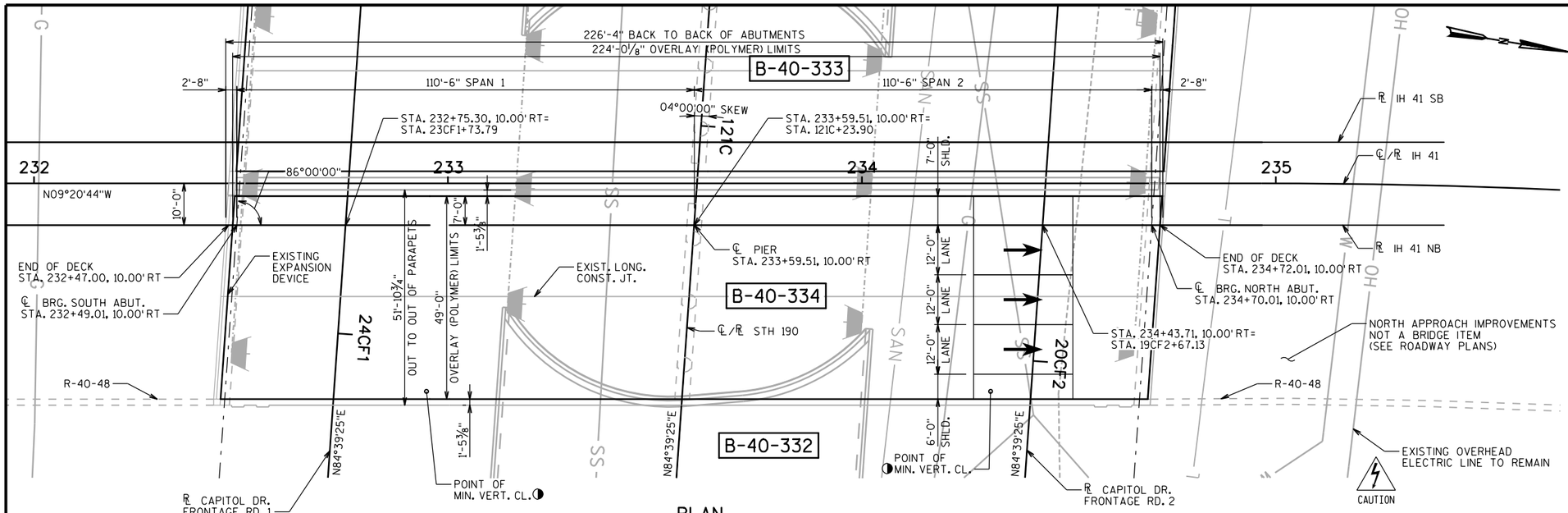
1078 SUBMITTAL

PRE_151

STATE PROJECT NUMBER
1100-20-70

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES, AND QUANTITIES



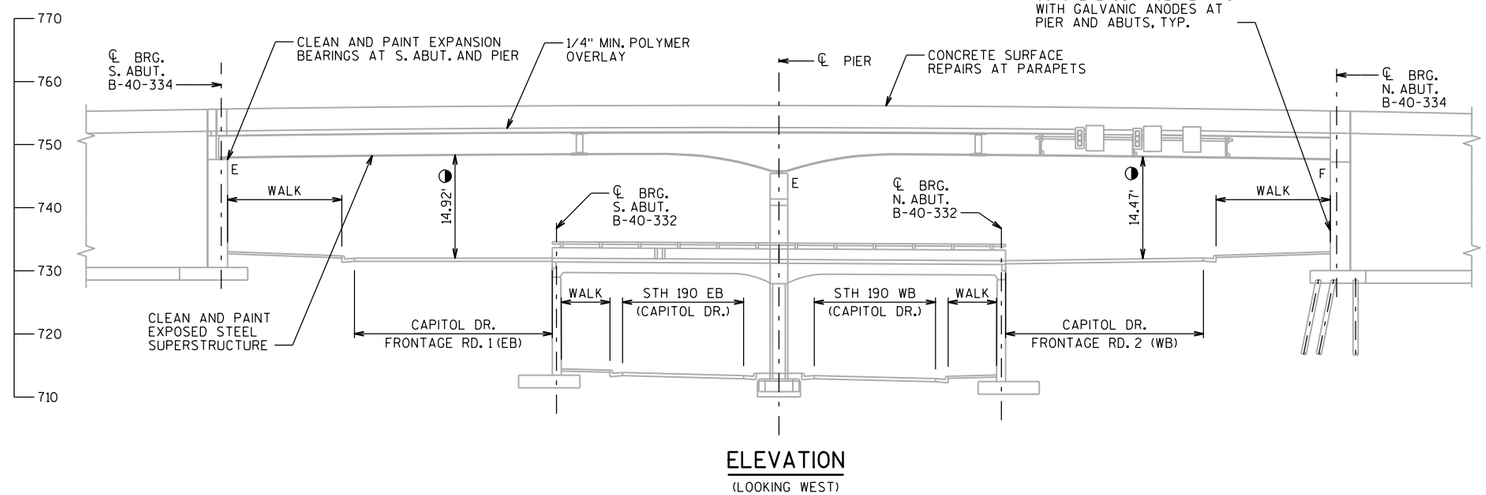
PLAN

(2-SPAN CONTINUOUS HAUNCHED STEEL PLATE GIRDER)
POLYMER OVERLAY

LEGEND

TRAFFIC DIRECTION

CLEARANCE DIMENSION TAKEN FROM HSIS; MESUREMENT TAKEN 9/13/2016. LOCATION PER EXISTING PLANS.



ELEVATION

(LOOKING WEST)

TRAFFIC DATA

IH 41 NB

EXISTING A.D.T. = 87,910 (2019)
FUTURE A.D.T. = 99,887 (2040)
R.D.S. = 60 M.P.H.

INTERCHANGE RD. EB

EXISTING A.D.T. = 18,144 (2014)
FUTURE A.D.T. = 20,500 (2040)
R.D.S. = 35 M.P.H.

INTERCHANGE RD. WB

EXISTING A.D.T. = 18,144 (2014)
FUTURE A.D.T. = 20,500 (2040)
R.D.S. = 35 M.P.H.

STH 190-CAPITOL DR.

EXISTING A.D.T. = 43,200 (2020)
FUTURE A.D.T. = 47,300 (2040)
R.D.S. = 50 M.P.H.

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi

1078 SUBMITTAL

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB
250 E. WISCONSIN AVE. #2000
MILWAUKEE, WI 53202
(414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-334

IH 41 NB OVER RAMP IH 41 - STH 190

COUNTY	~~TOWN/CITY/VILLAGE~~
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
HDA	EAJ	SSG	EAJ

GENERAL PLAN AND ELEVATION

SHEET 1 OF 2

PRE_152

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FILE NAME : \\milw00\ingrproj\79555\b1\1100-20-70\B-40-334\cds\334_080101_gp.dgn
PLOT DATE : 9/6/2021 10:06:05 AM PLOT BY : HAnders
PLOT SCALE : 30:1

STATE PROJECT NUMBER
1100-20-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS AND DIMENSIONS ARE BASED OFF EXISTING PLANS. MATCH EXISTING ELEVATIONS AND DIMENSIONS.

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

"PREPARATION DECKS TYPE 1" QUANTITIES ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. DECK PREPARATION AREAS SHALL BE FILLED WITH "RAPID SET DECK REPAIR".

DECK REPAIRS SHALL BE FILLED PRIOR TO OVERLAY PLACEMENT. REPAIRS USING A PORTLAND CEMENT BASED CONCRETE REQUIRES A MINIMUM CURE TIME OF 28 DAYS PRIOR TO OVERLAY PLACEMENT.

SHOT BLASTING, DECK SURFACE PREPARATIONS, AND TRANSITIONAL AREAS ARE INCLUDED IN THE BID ITEM "POLYMER OVERLAY."

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

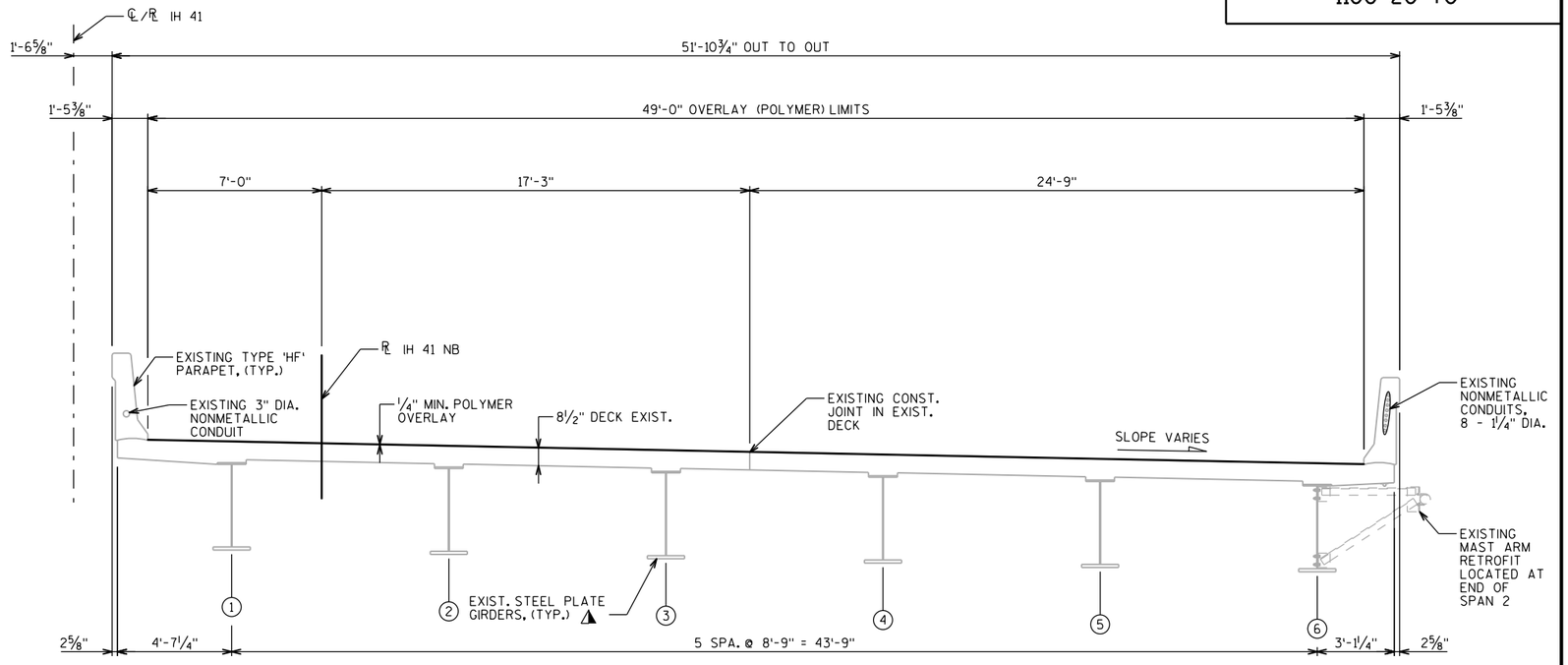
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EXISTING STEEL SUPERSTRUCTURE SHALL BE PAINTED, SHERWIN WILLIAMS COLOR SW6523 OR EQUAL.

THE UTILITY AND STORM SEWER INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION AS MAY BE NECESSARY TO AVOID DAMAGE.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE TOP AND INSIDE FACE OF EXISTING PARAPETS FOR THE FULL LENGTH OF THE BRIDGE. SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "PIGMENTED SURFACE SEALER RESEAL". APPLY RESEAL AFTER ALL CONCRETE SURFACE REPAIRS TO PARAPETS HAVE BEEN COMPLETED.

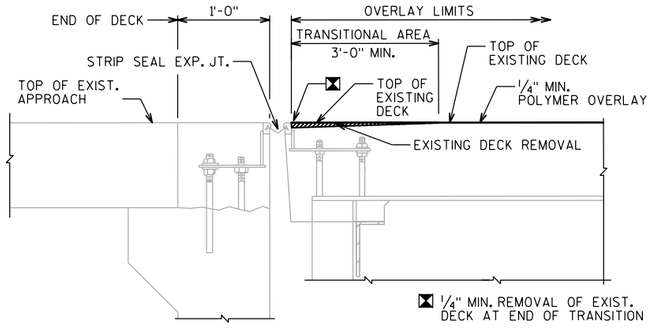
DECK AND PARAPET REPAIRS MAY BE PERFORMED DURING STAGE I AND II LONG-TERM CLOSURES FOR ROADWAY WORK. POLYMER OVERLAY TO BE PLACED DURING NIGHT-TIME ONLY CLOSURES. SEE ROADWAY PLANS FOR COMPLETE STAGING INFORMATION.



TYPICAL SECTION

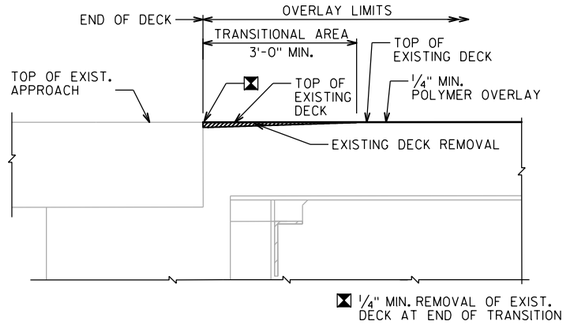
(LOOKING NORTH)

◭ 40" WEBS TYPICAL, 72" WEB MAX. AT PIER



SECTION THRU SOUTH ABUTMENT TRANSITIONAL AREA ON DECK AT EXPANSION JOINT

(REMOVAL AND OVERLAY THICKNESS NOT TO SCALE)



SECTION THRU NORTH ABUTMENT TRANSITIONAL AREA ON DECK AT FIXED JOINT

(REMOVAL AND OVERLAY THICKNESS NOT TO SCALE)

NOTE: TRANSITIONAL AREA REQUIRED WHEN APPROACH PAVEMENT HAS BEEN PLACED PRIOR TO OVERLAY PLACEMENT.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.5100.S	POLYMER OVERLAY	SY	
517.1801.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-334	EACH	1
517.4501.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-334	EACH	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1
SPV.0035.4000	RAPID SET DECK REPAIR	CY	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
	NON-BID ITEMS		

ALL ITEMS ARE CATEGORY XXXX

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-334

DRAWN BY SSG | PLANS CK'D. HDA

TYPICAL SECTION, GENERAL NOTES, AND QUANTITIES

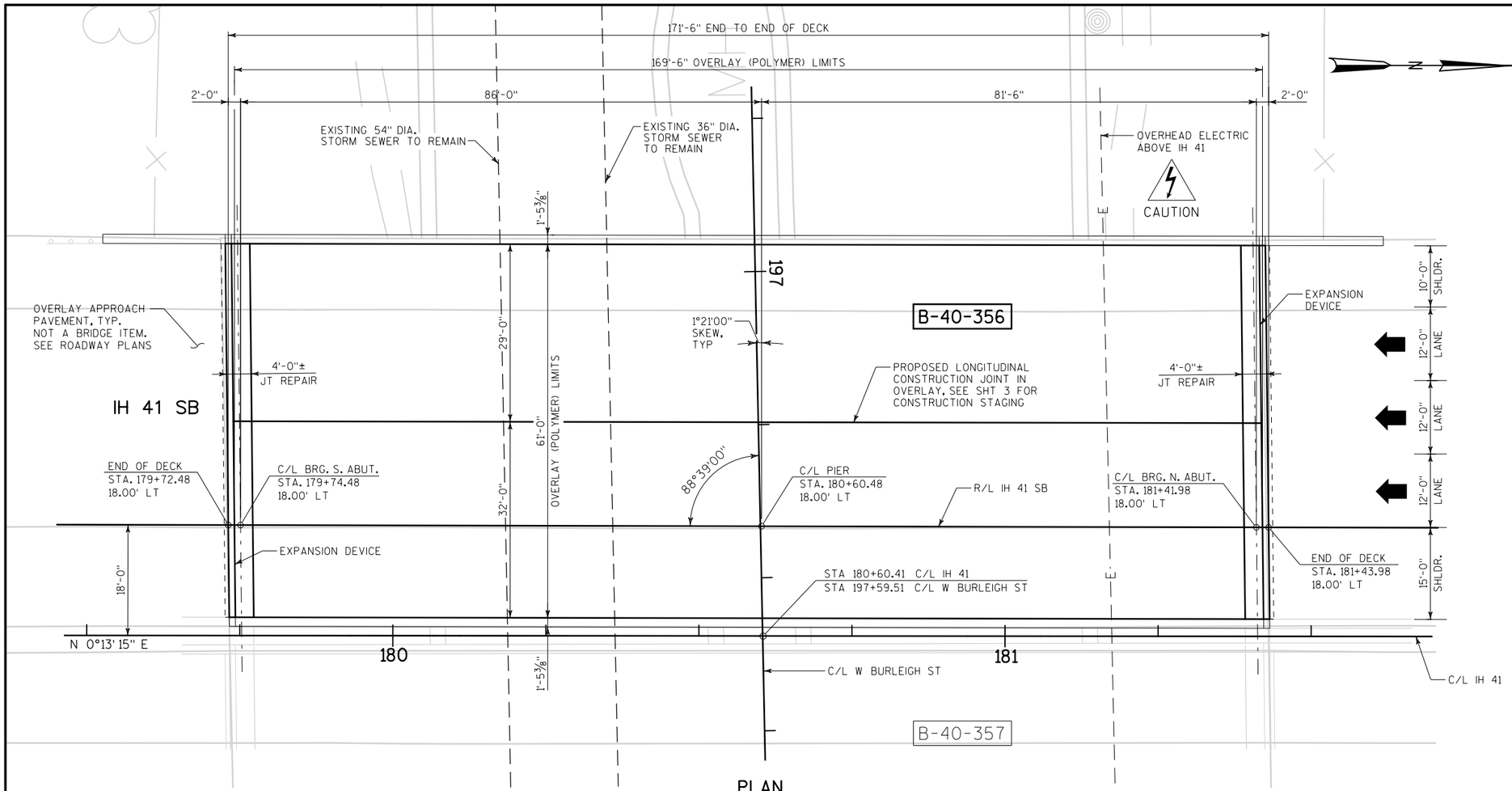
SHEET 2 OF 2

1078 SUBMITTAL

PRE_153

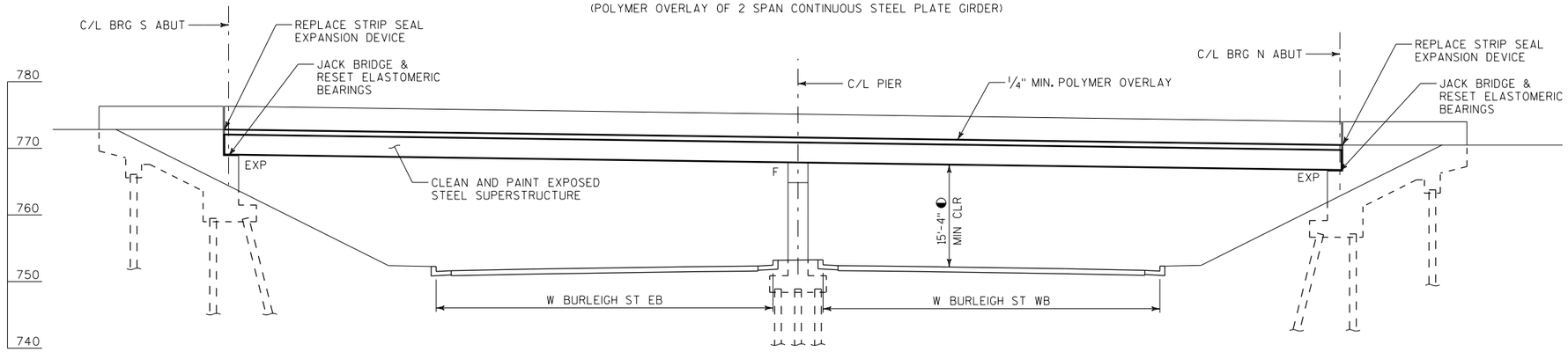
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PLOT DATE : 9/6/2021 10:06:28 AM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 6:1



PLAN

(POLYMER OVERLAY OF 2 SPAN CONTINUOUS STEEL PLATE GIRDER)



ELEVATION

(LOOKING WEST)

LEGEND

◐ LOCATION PER EXISTING PLANS AND MINIMUM CLEARANCE TAKE FROM HSI SYSTEM ON 9-29-2016

1078 SUBMITTAL

STATE PROJECT NUMBER

1100-20-70

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES AND QUANTITIES
3. CONSTRUCTION STAGING

TRAFFIC DATA

IH 41 SB

EXISTING ADT = 68,250 (2012)
FUTURE ADT = 84,650 (2040)
RDS = 60 MPH

W. BURLEIGH ST.

EXISTING ADT = 26,900 (2012)
FUTURE ADT = 35,500 (2040)
RDS = 40 MPH

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi
REINFORCEMENT BAR STEEL ..... fy = 60,000 psi

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
STEVE MILLER (414) 272-2426

NO.	DATE	REVISION	BY

Jacobs

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-356

IH 41 SB OVER W. BURLEIGH ST.

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
MILWAUKEE	MILWAUKEE

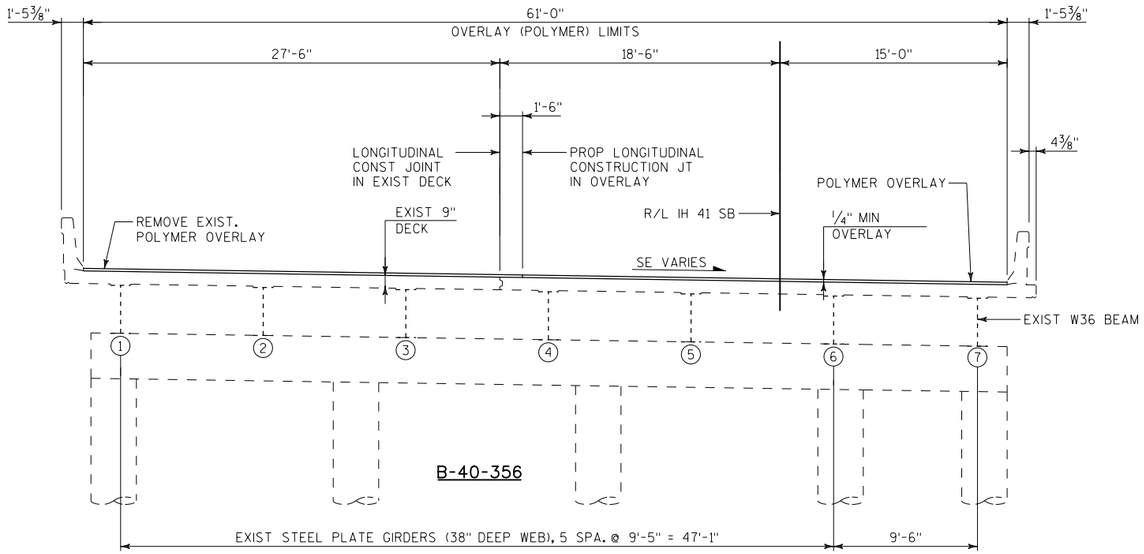
DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
SGM	EKM	TEK	EKM

GENERAL PLAN AND ELEVATION

SHEET 1 OF 3

PR



TYPICAL SECTION

(LOOKING NORTH)

TOTAL ESTIMATED QUANTITES

ITEM NO.	BID ITEMS	UNITS	TOTAL
502.0100	CONCRETE MASONRY BRIDGES	CY	
502.0717.S	CRACK SEALING EPOXY	LF	
502.3101	EXPANSION DEVICE	LF	1
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
509.1000	JOINT REPAIR	SY	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	
509.5100.S	POLYMER OVERLAY	SY	
509.9015.S	REMOVING POLYMER OVERLAY	SY	
517.1801.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-356	EACH	1
517.4501.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-356	EACH	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	
SPV.0035.XX	RAPID SET DECK REPAIR	CY	
SPV.0090.XX	SAWING PAVEMENT DECK PREPARATION AREAS	LF	
SPV.0105.XX	JACK BRIDGE AND RESET ELASTOMERIC BEARINGS	LS	
SPV.0165.XX	REMOVING LOOSE CONCRETE	SF	
SPV.0180.XX	ABUTMENT SEAT CLEANING AND SEALING	SY	

ALL ITEMS ARE CATEGORY XXXX

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1989 (NAVD).

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THE BID ITEMS ARE APPROXIMATE:
- CONCRETE SURFACE REPAIR
- REMOVING LOOSE CONCRETE

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "RAPID SET DECK REPAIR".

UNDER THE BID ITEM "ADHESIVE ANCHORS NO. 5 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR PER LINEAR FOOT AS "EXPANSION DEVICE".

"PIGMENTED SURFACE SEALER" SHALL BE APPLIED TO THE TOP AND INSIDE FACES OF EXISTING PARAPETS. PERFORM "CLEANING PARAPETS" PRIOR TO APPLYING "PIGMENTED SURFACE SEALER" ON THE EXISTING PARAPETS.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR JOINT REPAIR IS CONSIDERED INCIDENTAL TO THE BID ITEM "POLYESTER POLYMER CONCRETE OVERLAY".

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "RAPID SET DECK REPAIR". THIS DOES NOT INCLUDES THE CONCRETE TO REPLACE SECTIONS OF PARAPET WITHIN THE JOINT REPAIR LIMITS.

AREAS OF "PREPARATION DECK TYPE 1" SHALL BE DEFINED BY A SAW CUT.

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF ¼" PLACED ABOVE THE DECK SURFACE AFTER THE SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS ½". IF EXPECTED OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ¼", CONTACT THE STRUCTURES DESIGN SECTION.

CLEAN AND PAINT ALL EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CONNECTIONS, ETC.

SEE ROADWAY PLANS FOR LANE CLOSURES ON BRIDGE FOR RESETTING THE ELASTOMERIC BEARINGS WORK.

EXISTING STEEL SUPERSTRUCTURE SHALL BE PAINTED LIGHT GRAY, FEDERAL COLOR NUMBER 26293.

REMOVAL OF PARAPET AT JOINTS IS INCLUDED IN THE BID ITEM "JOINT REPAIR". CONCRETE TO REPLACE SECTIONS OF PARAPET WITHIN THE JOINT REPAIR LIMITS SHALL BE PAID AS "CONCRETE MASON BRIDGES".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF THE UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

STATE PROJECT NUMBER
1100-20-70

8

8

1078 SUBMITTAL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-356

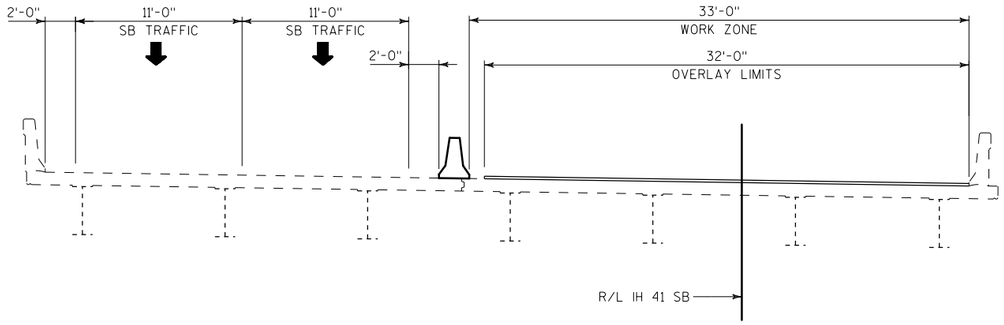
DRAWN BY TEK | PLANS CK'D. EKM

TYPICAL SECTION, GENERAL NOTES AND QUANTITIES

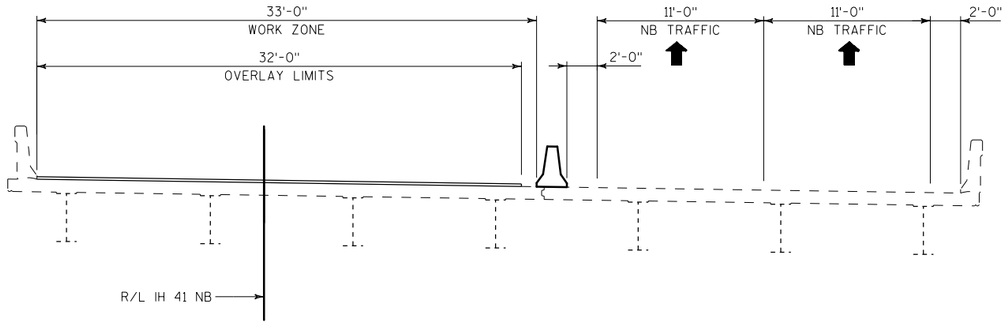
SHEET 2 OF 3

PR

STATE PROJECT NUMBER
1100-20-70



B-40-356

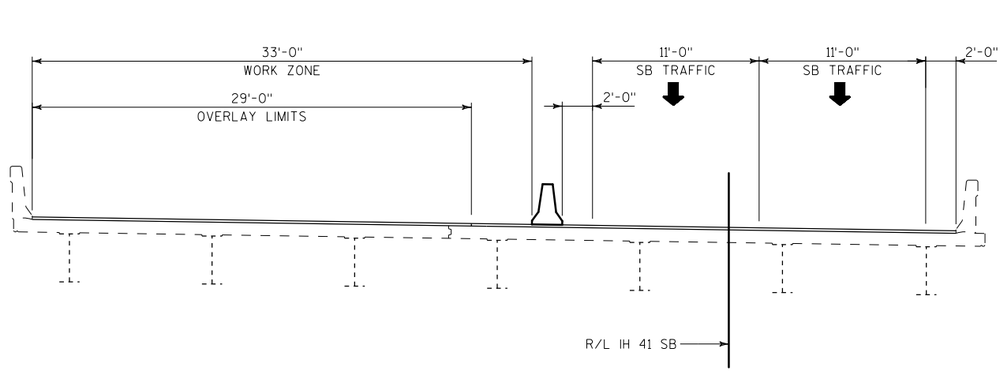


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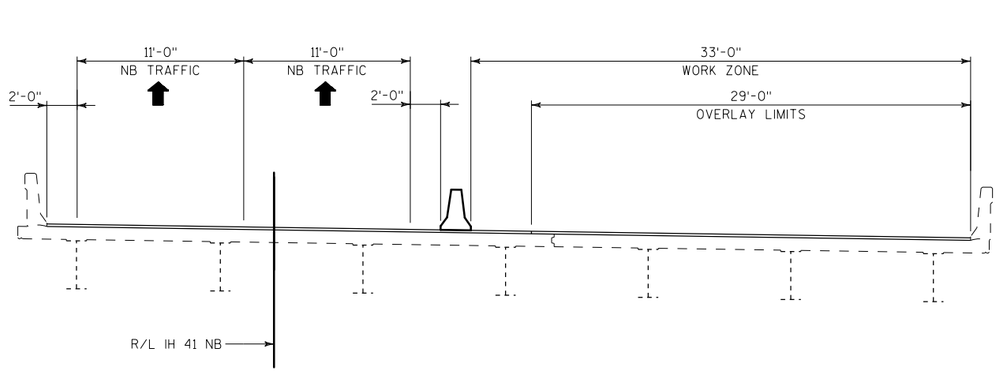
CROSS SECTION THRU ROADWAY

PHASE 2

(LOOKING NORTH)



B-40-356



B-40-357

CROSS SECTION THRU ROADWAY

PHASE 1

(LOOKING NORTH)

NOTES

PHASE NUMBERS FOR STRUCTURE WORK DO NOT MATCH ROADWAY STAGING PLAN NUMBERING.

SEE ROADWAY PLANS FOR COMPLETE PROJECT STAGING DETAILS.

1078 SUBMITTAL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-356

DRAWN BY	TEK	PLANS CK'D.	EKM

CONSTRUCTION STAGING

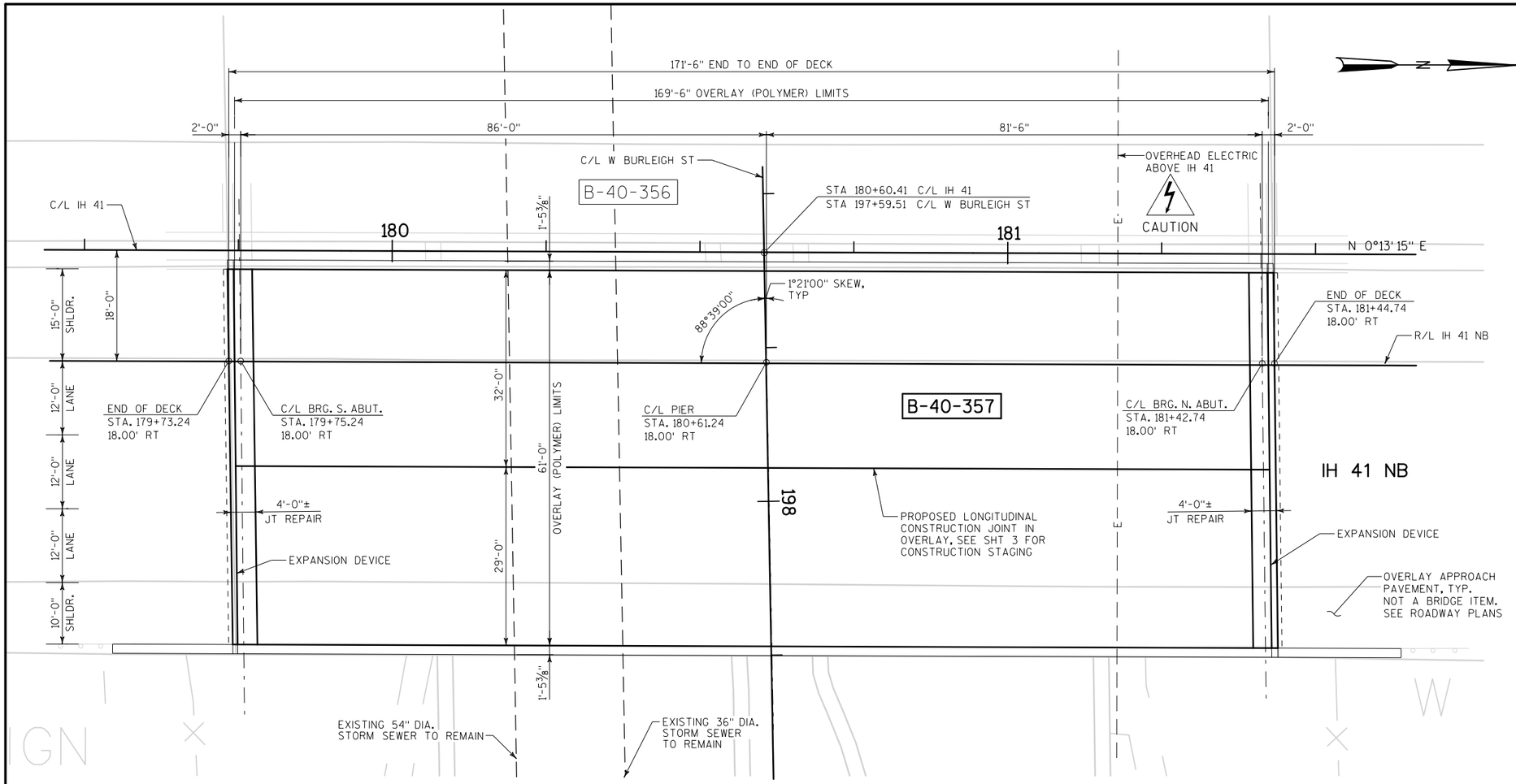
SHEET 3 OF 3

PR

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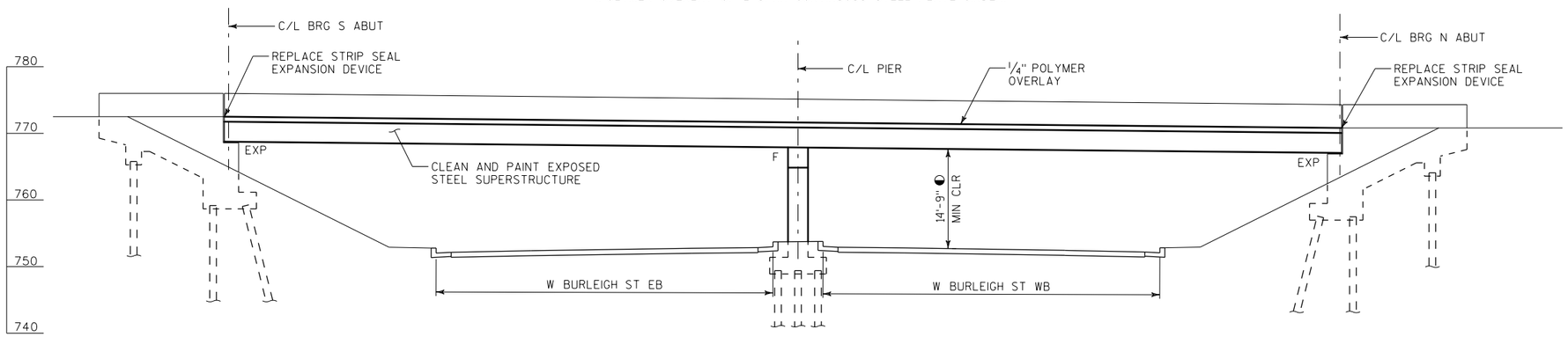
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STATE PROJECT NUMBER
1100-20-70



PLAN

(POLYMER OVERLAY OF 2 SPAN CONTINUOUS STEEL PLATE GIRDER)



ELEVATION

(LOOKING WEST)

LEGEND

◐ LOCATION PER EXISTING PLANS AND MINIMUM CLEARANCE TAKEN FROM HSI SYSTEM ON 9-29-2016

LIST OF DRAWINGS

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W. BURLEIGH ST.

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DESIGN DATA

LIVE LOAD

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OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

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NO.	DATE	REVISION	BY

Jacobs

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-357

IH 41 NB OVER W. BURLEIGH ST.

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
MILWAUKEE	MILWAUKEE

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	SGM	DESIGN CK'D.	EKM	DRAWN BY	TEK	PLANS CK'D.	EKM

GENERAL PLAN AND ELEVATION

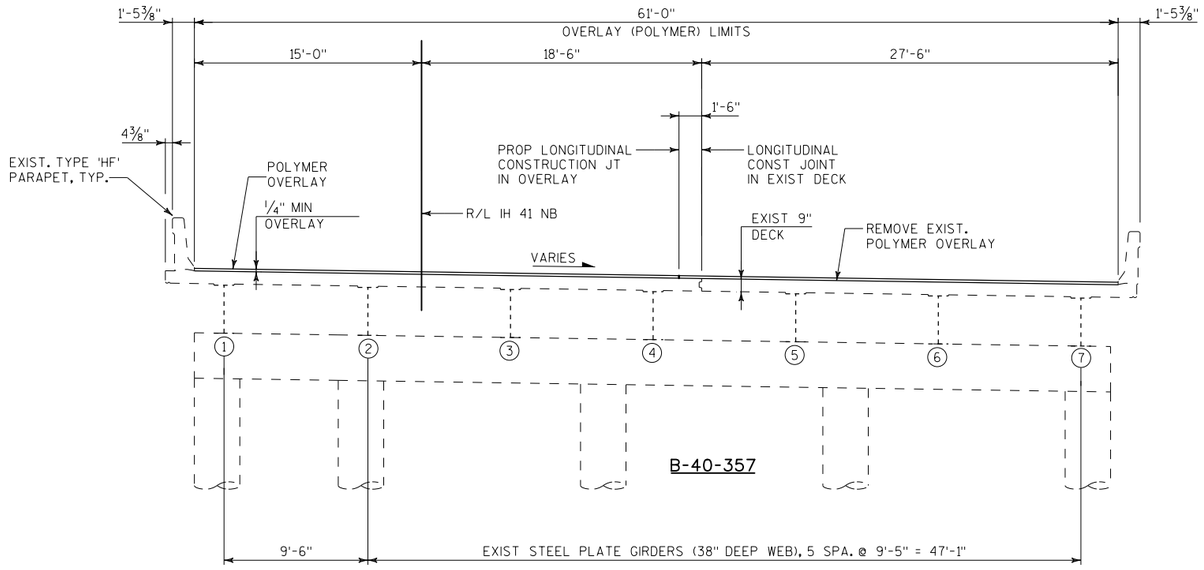
SHEET 1 OF 3

PR

1078 SUBMITTAL

8

8



TYPICAL SECTION

LOOKING NORTH

TOTAL ESTIMATED QUANTITES

ITEM NO.	BID ITEMS	UNITS	TOTAL
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517.1801.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-357	EACH	1
517.4501.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-357	EACH	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	
SPV.0035.XX	RAPID SET DECK REPAIR	CY	
SPV.0090.XX	SAWING PAVEMENT DECK PREPARATION AREAS	LF	
SPV.0105.XX	JACK BRIDGE AND RESET ELASTOMERIC BEARINGS	LS	
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PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF ¼" PLACED ABOVE THE DECK SURFACE AFTER THE SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS ½". IF EXPECTED OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ¼", CONTACT THE STRUCTURES DESIGN SECTION.

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STATE PROJECT NUMBER
1100-20-70

8

8

1078 SUBMITTAL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-357

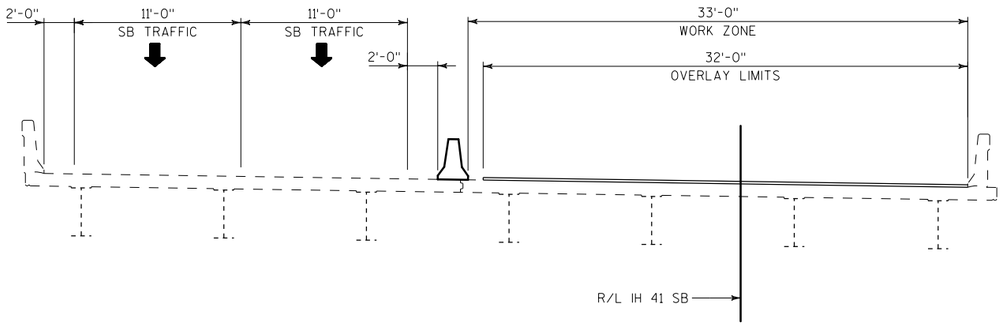
DRAWN BY TEK | PLANS CK'D. EKM

TYPICAL SECTION, GENERAL NOTES AND QUANTITIES

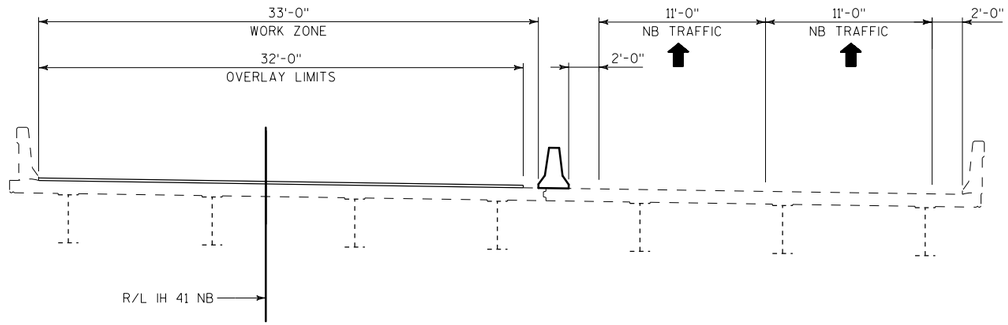
SHEET 2 OF 3

PR

STATE PROJECT NUMBER
1100-20-70

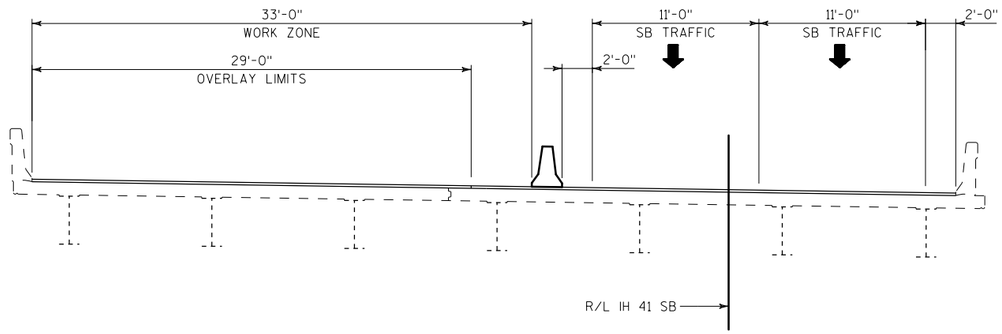


B-40-356

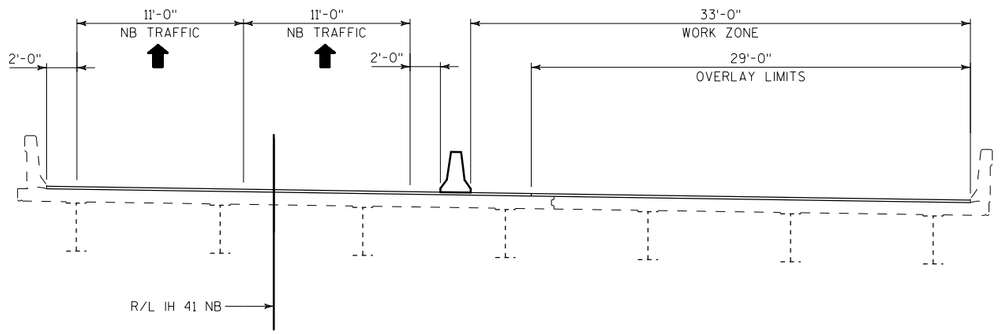


B-40-357

CROSS SECTION THRU ROADWAY
PHASE 2
(LOOKING NORTH)



B-40-356



B-40-357

CROSS SECTION THRU ROADWAY
PHASE 1
(LOOKING NORTH)

NOTES

PHASE NUMBERS FOR STRUCTURE WORK DO NOT MATCH ROADWAY STAGING PLAN NUMBERING.

SEE ROADWAY PLANS FOR COMPLETE PROJECT STAGING DETAILS.

1078 SUBMITTAL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-357

DRAWN BY	TEK	PLANS CK'D.	EKM

CONSTRUCTION STAGING

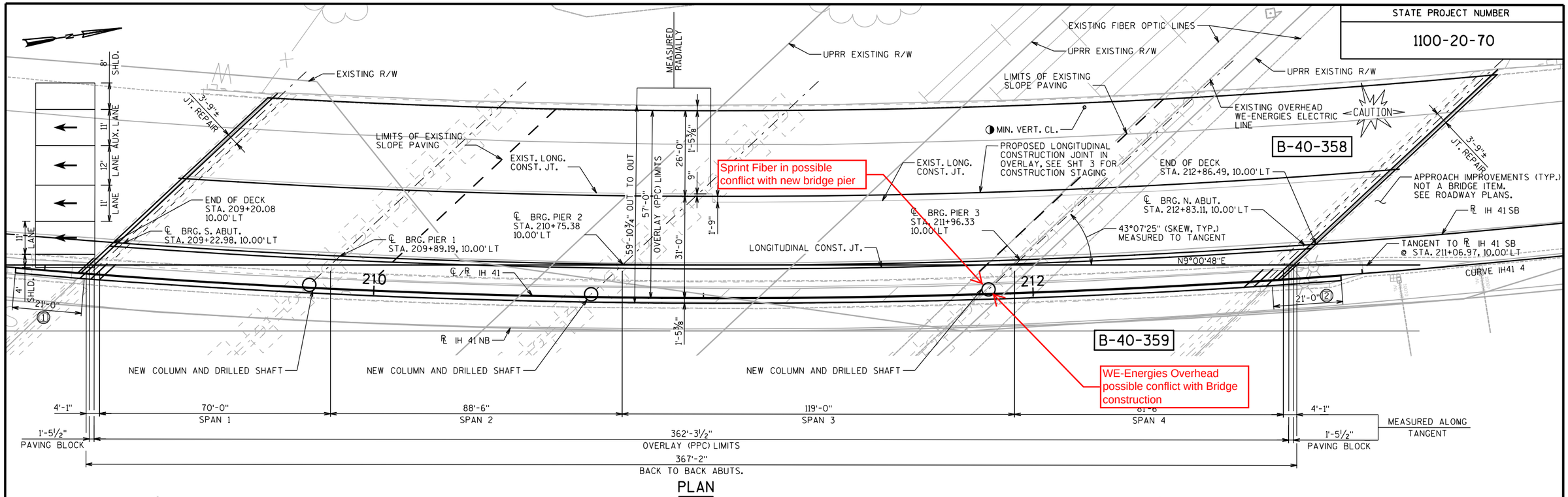
SHEET 3 OF 3

PR

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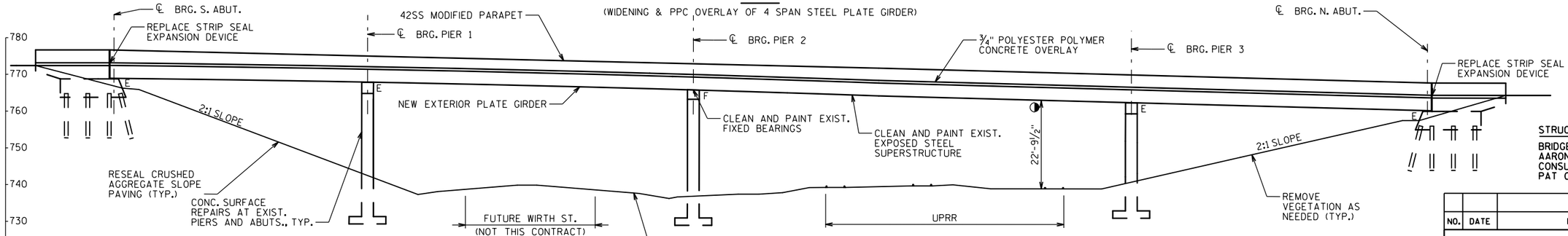
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STATE PROJECT NUMBER
1100-20-70



PLAN

(WIDENING & PPC OVERLAY OF 4 SPAN STEEL PLATE GIRDER)



ELEVATION

(LOOKING WEST)

HORIZONTAL CURVE DATA

IH 41

P.I. = 213+70.66
X = 315986.64
Y = 566625.59
Δ = 25° 16' 11"
D = 2° 15' 00"
T = 570.83'
L = 1123.09'
R = 2546.48
P.C. = 207+99.83
X = 315437.71
Y = 566468.98
P.T. = 219+22.92
X = 316549.89
Y = 566532.90

TRAFFIC DATA

IH 41 SB

EXISTING A.D.T. = 74,500 (2019)
FUTURE A.D.T. = 84,650 (2040)
R.D.S. = 60 M.P.H.

DESIGN DATA

LIVE LOAD: LFD
(EXISTING GIRDERS 1 THRU 7)

DESIGN RATING: HS-20
INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

LIVE LOAD: LRFD
(NEW GIRDER 1A)

DESIGN RATING: HL-93
INVENTORY RATING FACTOR: RF=X.XX
OPERATING RATING FACTOR: RF=X.XX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

STRUCTURE IS RATED FOR A PPC OVERLAY OF 12.5 PSF.

MATERIAL PROPERTIES

POLYESTER POLYMER CONCRETE OVERLAY	f'c	= 4,000 psi
CONCRETE MASONRY:		
SUPERSTRUCTURE	f'c	= 4,000 psi
ALL OTHER	f'c	= 3,500 psi
BAR STEEL REINFORCEMENT	fy	= 60,000 psi
STRUCTURAL STEEL (ASTM A709, GRADE 50)	Fy	= 50,000 psi
CARBON STEEL (ASTM A709, GRADE 36)	Fy	= 36,000 psi

FOUNDATION DATA

USING THE MODIFIED GATES ACCEPTANCE METHOD FOR PILES:

ABUTMENTS SHALL BE SUPPORTED ON XXXX
PILING DRIVEN TO REQUIRED DRIVING RESISTANCE OF XXX TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

*THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.50 USING MODIFIED GATES DYNAMIC FORMULA TO DETERMINE DRIVEN PILE CAPACITY.

ESTIMATED PILE LENGTHS:
SOUTH ABUTMENT.....XX FEET
NORTH ABUTMENT.....XX FEET

DRILLED SHAFTS:

PIERS SHALL BE SUPPORTED ON X'DIA. BASE GROUTED DRILLED SHAFTS. SEE DRILLED SHAFTS SHEET FOR FACTORED AXIAL RESISTANCES, TOP OF DRILLED SHAFT AND BOTTOM OF DRILLED SHAFT ELEVATIONS, AND CORRESPONDING SHAFT LENGTHS FOR EACH DRILLED SHAFT.

THE MINIMUM FACTORED AXIAL RESISTANCE OF DRILLED SHAFTS IN COMPRESSION USED FOR DESIGN IS THE REQUIRED AXIAL RESISTANCE MULTIPLIED BY A SHAFT RESISTANCE FACTOR OF X.XX. THE RESISTANCE FACTOR INCLUDES A 20% REDUCTION FOR NON-REDUNDANCY.

LEGEND

→ TRAFFIC DIRECTION

◑ LOCATION PER EXISTING PLANS AND MIN. CLEARANCE TAKEN FROM LIDAR SCAN DATA. MIN. VERT. CLR. REMAINS UNCHANGED DUE TO WIDENING.

Ⓧ WINGWALL NUMBER

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION AND GENERAL NOTES
3. PROFILE GRADE LINE AND QUANTITIES
4. CONSTRUCTION STAGING
5. SUBSURFACE EXPLORATION

1078 SUBMITTAL

STRUCTURES DESIGN CONTACTS
BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
HNTB
11414 W. PARK PLACE
MILWAUKEE, WI 53224
(414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-358

IH 41 SB OVER UPRR

COUNTY	CITY
MILWAUKEE	WAUWATOSA

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	MSS	DESIGN CK'D.	HDA	DRAWN BY	FEG	PLANS CK'D.	MSS

GENERAL PLAN AND ELEVATION

SHEET 1 OF 5

PRE_160

STATE PROJECT NUMBER
1100-20-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).

"PIGMENTED SURFACE SEALER" SHALL BE APPLIED TO THE TOP AND INSIDE FACES OF NEW PARAPETS. "PIGMENTED SURFACE SEALER RESEAL" TO BE APPLIED TO THE TOP AND INSIDE FACES OF EXISTING PARAPETS. PERFORM "CLEANING PARAPETS" PRIOR TO APPLYING "PIGMENTED SURFACE SEALER RESEAL" ON EXISTING PARAPETS.

"REMOVING STRUCTURE B-40-358" SHALL INCLUDE PARTIALLY REMOVING THE EXISTING DECK, PARAPET, LIGHT BLISTER, AND LIGHT POLE.

THE EXISTING STRUCTURE (B-40-358) IS A 4-SPAN STEEL GIRDER BRIDGE. 367.2' LONG X 54.9' WIDE. THE SUBSTRUCTURE AND SUPERSTRUCTURE SHALL BE WIDENED BY ADDING 1 GIRDER LINE TO THE INSIDE MEDIAN SHOULDER.

ALL FIELD CONNECTIONS SHALL BE MADE WITH ¾" DIAMETER FRICTION TYPE HIGH-TENSILE STRENGTH BOLTS UNLESS SHOWN OR NOTED OTHERWISE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-358" SHALL BE THE EXISTING GROUND LINE.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY BRIDGES". WHEN THE DECK PREPARATION AND FULL-DEPTH DECK REPAIRS ARE COMPLETE, APPLY THE ¾" PPC OVERLAY TO LIMITS SHOWN ON THESE PLANS.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE ITEMS ARE APPROXIMATE.

- CONCRETE SURFACE REPAIR
- CRACK SEALING EPOXY
- EPOXY CRACK SEALING
- EPOXY INJECTION CRACK REPAIR
- CORED HOLES 2-INCH DIAMETER
- VEGETATION REMOVAL B-40-358
- REMOVING LOOSE CONCRETE

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY BRIDGES". THIS INCLUDES THE CONCRETE TO REPLACE SECTIONS OF PARAPET WITHIN THE JOINT REPAIR LIMITS. THIS EXCLUDES THE ¾" OF PPC OVERLAY. REFER TO THE "GENERAL PLAN AND ELEVATION" SHEET FOR THE LIMITS OF THE PPC OVERLAY.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

UNDER THE BID ITEM "ADHESIVE ANCHORS NO. 5 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

A MINIMUM OF ½-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS IN THE DECK WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER UNDER THE BID ITEM "CRACK SEALING EPOXY".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF ¾" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 1". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR AS "EXPANSION DEVICE" AND PAID FOR BY LINEAR FOOT.

EXISTING FIXED BEARINGS AT PIER 2 TO BE CLEANED AND PAINTED AS PART OF THE BID ITEM "STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-358".

CLEAN AND PAINT ALL EXISTING EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CONNECTIONS, ETC. PAINT APPLICATION ON THE BEARINGS SHALL BE BRUSHED ON.

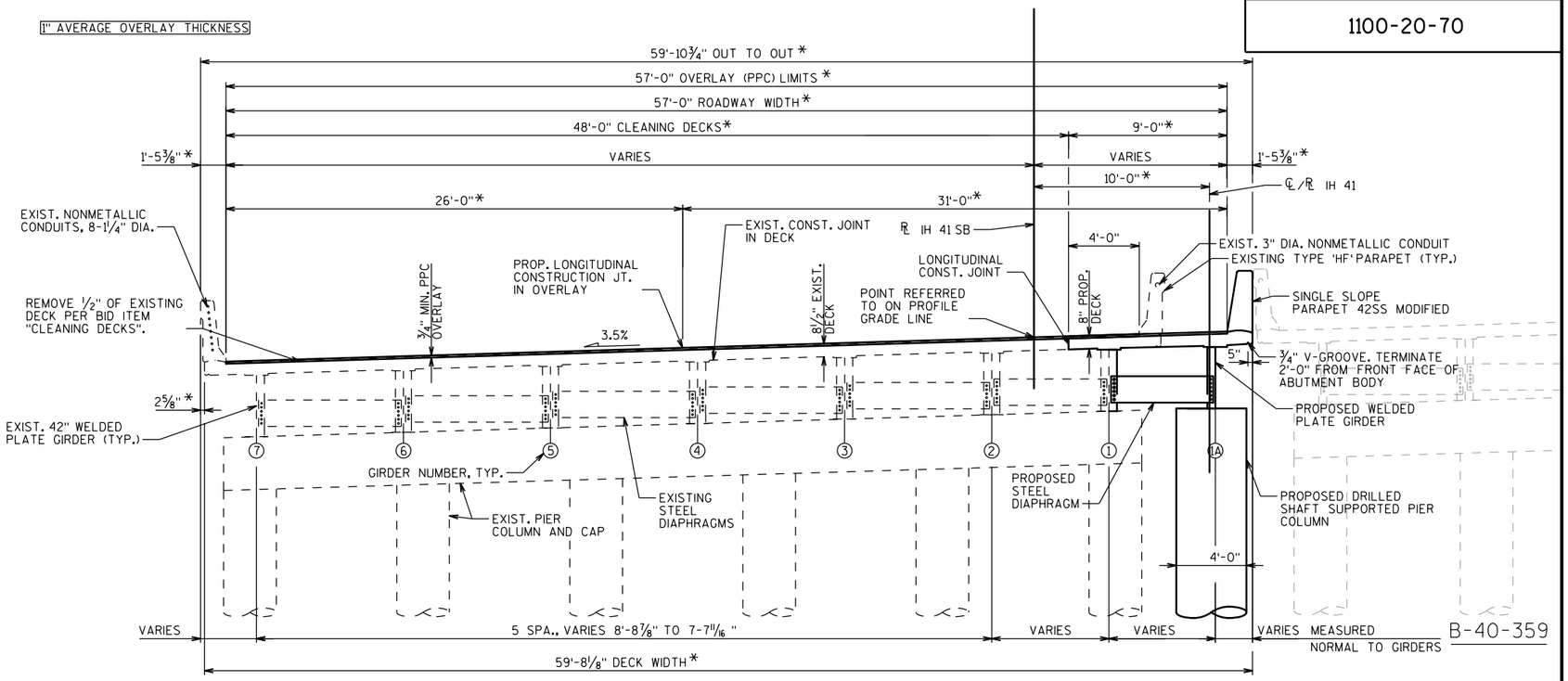
EXISTING STEEL SUPERSTRUCTURE AND BEARINGS SHALL BE PAINTED LIGHT GRAY, FEDERAL COLOR NUMBER 26293.

REMOVAL OF THE PARAPET AT THE JOINTS IS INCLUDED IN BID ITEM "JOINT REPAIR".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

REMOVE ALL VEGETATION FROM EXISTING CRUSHED AGGREGATE SLOPE PAVING PRIOR TO RESEALING THE SLOPE PAVING. REMOVAL OF VEGETATION IS INCLUDED IN THE BID ITEM "VEGETATION REMOVAL B-40-358".

ALL CRUSHED AGGREGATE SLOPE PAVING ASSOCIATED WITH THIS STRUCTURE TO BE RESEALED.



B-40-359

TYPICAL SECTION

(LOOKING NORTH)

* MEASURED RADIALLY

GENERAL NOTES CONTINUED

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE QUANTITY FOR BACKFILL STRUCTURE TYPE A IS CALCULATED BASED ON THE "BACKFILL STRUCTURE LIMITS" DETAIL ON THE "PROFILE GRADE LINE AND QUANTITIES" SHEET.

BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

THE MINIMUM CONCRETE HAUNCH SHALL BE 2" FOR DESIGN CALCULATIONS AND THE HAUNCH CONCRETE QUANTITY IS BASED ON A MINIMUM DEPTH OF 1¼" WHICH IS THE MAXIMUM HAUNCH QUANTITY FOR WHICH THE CONTRACTOR WILL BE PAID.

PROPOSED NEW GIRDER AND NEW DIAPHRAGMS PAINTING ARE INCLUDED IN THE BID ITEM "PAINTING EPOXY SYSTEM B-40-358". EXISTING GIRDERS AND EXISTING DIAPHRAGMS PAINTING ARE INCLUDED IN THE BID ITEM "STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-358".

ALL STRUCTURAL STEEL FOR GIRDERS, SPLICE PLATES, CONNECTION PLATES, BEARING STIFFENERS, AND TRANSVERSE STIFFENERS SHALL BE HIGH-STRENGTH STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A709 GRADE 50. ALL OTHER STRUCTURAL STEEL SHALL BE STRUCTURAL CARBON STEEL, ASTM 709 GRADE 36.

FOR PILE SPLICE DETAIL SEE "XXXXXX" SHEET.

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1078 SUBMITTAL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-358

DRAWN BY	FEG	PLANS CK'D.	MSS

TYPICAL SECTION AND GENERAL NOTES

SHEET 2 OF 5

PRE_161

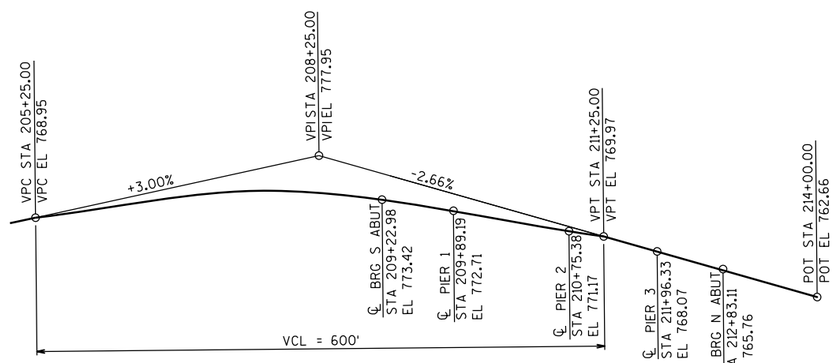
STATE PROJECT NUMBER
1100-20-70

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	S. ABUT.	PIER 1	PIER 2	PIER 3	N. ABUT.	SUPER.	TOTAL
203.0220.XX	REMOVING STRUCTURE B-40-358	EACH							1
203.0330.XX	DEBRIS CONTAINMENT B-40-358	EACH							1
206.1000.XX	EXCAVATION FOR STRUCTURES BRIDGES B-40-358	LS							1
210.1500	BACKFILL STRUCTURE TYPE A	TON							
502.0100	CONCRETE MASONRY BRIDGES	CY							
502.0717.S	CRACK SEALING EPOXY	LF							
502.3101	EXPANSION DEVICE	LF							
502.3210	PIGMENTED SURFACE SEALER	SY							
502.3215	PIGMENTED SURFACE SEALER RESEAL	SY							
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH							
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB							
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB							
506.0105	STRUCTURAL STEEL CARBON	LB							
506.0605	STRUCTURAL STEEL HS	LB							
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH							
506.3020	WELDED STUD SHEAR CONNECTORS 7/8X7-INCH	EACH							
506.5000.XX	BEARING ASSEMBLIES FIXED B-40-358	EACH							
509.0301	PREPARATION DECKS TYPE 1	SY							
509.0302	PREPARATION DECKS TYPE 2	SY							
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF							
509.0500	CLEANING DECKS	SY							
509.1000	JOINT REPAIR	SY							
509.1500	CONCRETE SURFACE REPAIR	SF							
509.2000	FULL-DEPTH DECK REPAIR	SY							
509.9020.S	EPOXY CRACK SEALING	LF							
509.9025.S	EPOXY INJECTION CRACK REPAIR	LF							
509.9026.S	CORED HOLES 2-INCH DIAMETER	EACH							
509.9050.S	CLEANING PARAPETS	LF							
511.1200.XX	TEMPORARY SHORING B-40-358	SF							
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY							
517.0600.XX	PAINTING EPOXY SYSTEM B-40-358	LS							1
517.0901.S	PREPARATION AND COATING OF TOP FLANGES B-40-358	EACH							1
517.1801.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-358	EACH							1
517.4501.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-358	EACH							1
[001] 517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH							1
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF							
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY							
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	SY							
SPV.0060.XX	DRILLED FOUNDATION SHAFT BASE GROUTING	EACH							
SPV.0075.XX	OBSTRUCTIONS DRILLED FOUNDATION SHAFT	HRS							
SPV.0090.XX	DRILLED SHAFT FOUNDATION 48-INCH	LF							
SPV.0105.XX	VEGETATION REMOVAL B-40-358	LS							1
SPV.0165.XX	REMOVING LOOSE CONCRETE	SF							
SPV.0180.XX	POLYESTER POLYMER CONCRETE OVERLAY	SY							
	NON-BID ITEMS								
	PREFORMED JOINT FILLER	SIZE							

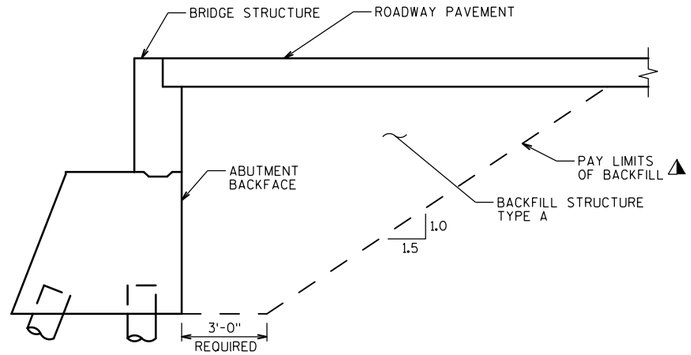
ALL ITEMS ARE CATEGORY XXXX

[001] BID ITEM INCLUDES PORTABLE DECONTAMINATION FACILITY FOR B-40-359



PROFILE GRADE LINE - IH-41 SB

(PROFILE TAKEN FROM EXISTING PLANS. UPDATED PROFILE TBD IN FINAL DESIGN.)



TYPICAL SECTION THRU ABUTMENT

NOTES

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-358" SHALL BE THE EXISTING GROUNDLINE.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYONE PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL.

LEGEND

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-358

DRAWN BY FEG | PLANS CK'D. MSS

PROFILE GRADE LINE AND QUANTITIES

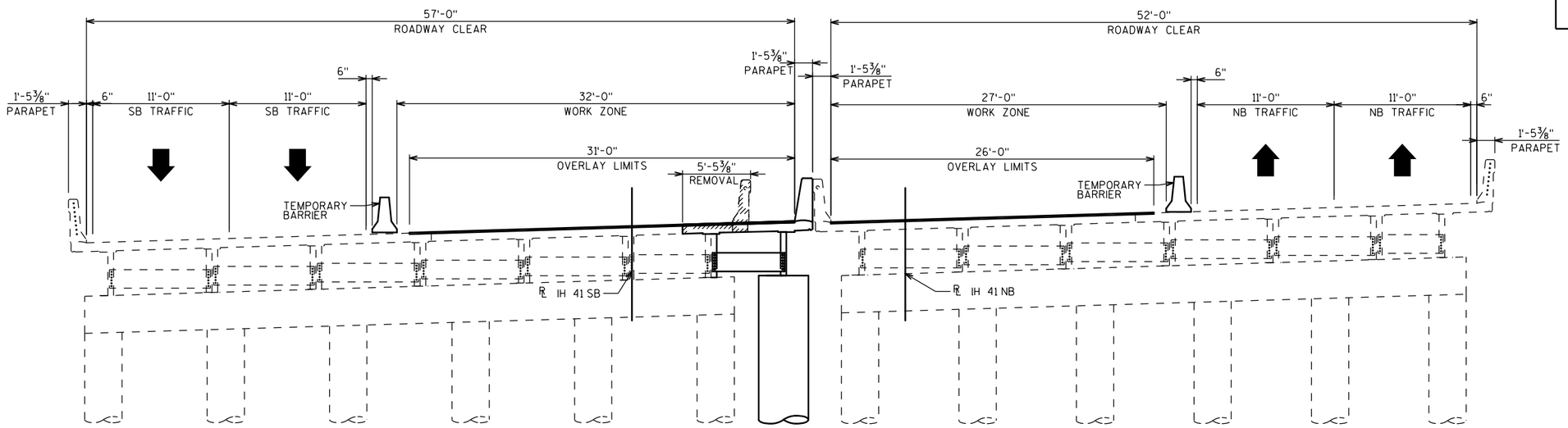
SHEET 3 OF 5

1078 SUBMITTAL

PRE_162

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STATE PROJECT NUMBER
1100-20-70

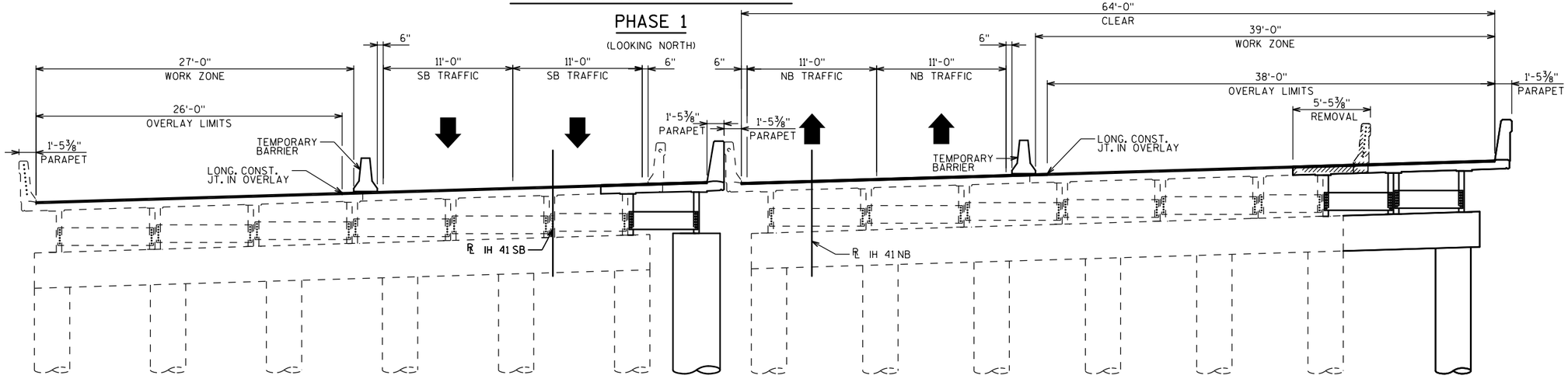


B-40-358 B-40-359

CROSS SECTION THRU ROADWAY

PHASE 1

(LOOKING NORTH)

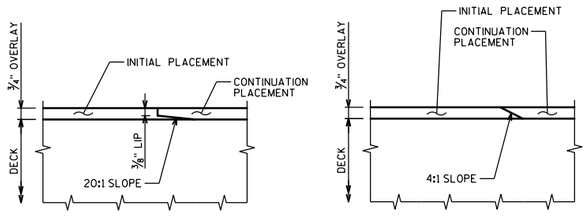


B-40-358 B-40-359

CROSS SECTION THRU ROADWAY

PHASE 2

(LOOKING NORTH)



TRANSVERSE JOINT

LONGITUDINAL JOINT

DETAIL REQUIRED WHEN OVERLAY IS NOT COMPLETED WITHIN THE WORK PERIOD OR IF STAGED CONSTRUCTION IS USED. OPTIONAL (CONTRACTOR) JOINTS TO BE APPROVED BY THE ENGINEER.

AVOID PLACING LONGITUDINAL JOINTS NEAR WHEEL PATHS (PLACE AT PROPOSED LANE LINES OR IN THE MIDDLE OF THE PROPOSED LANE).

NOTES

PHASE NUMBERS FOR STRUCTURE WORK DO NOT MATCH ROADWAY STAGING PLAN NUMBERING.

SEE ROADWAY PLANS FOR COMPLETE PROJECT STAGING DETAILS.

DIMENSIONS SHOWN ARE MEASURED RADIALLY.

1078 SUBMITTAL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-358

DRAWN BY FEG | PLANS CK'D. MSS

CONSTRUCTION STAGING

SHEET 4 OF 5

PRE_163

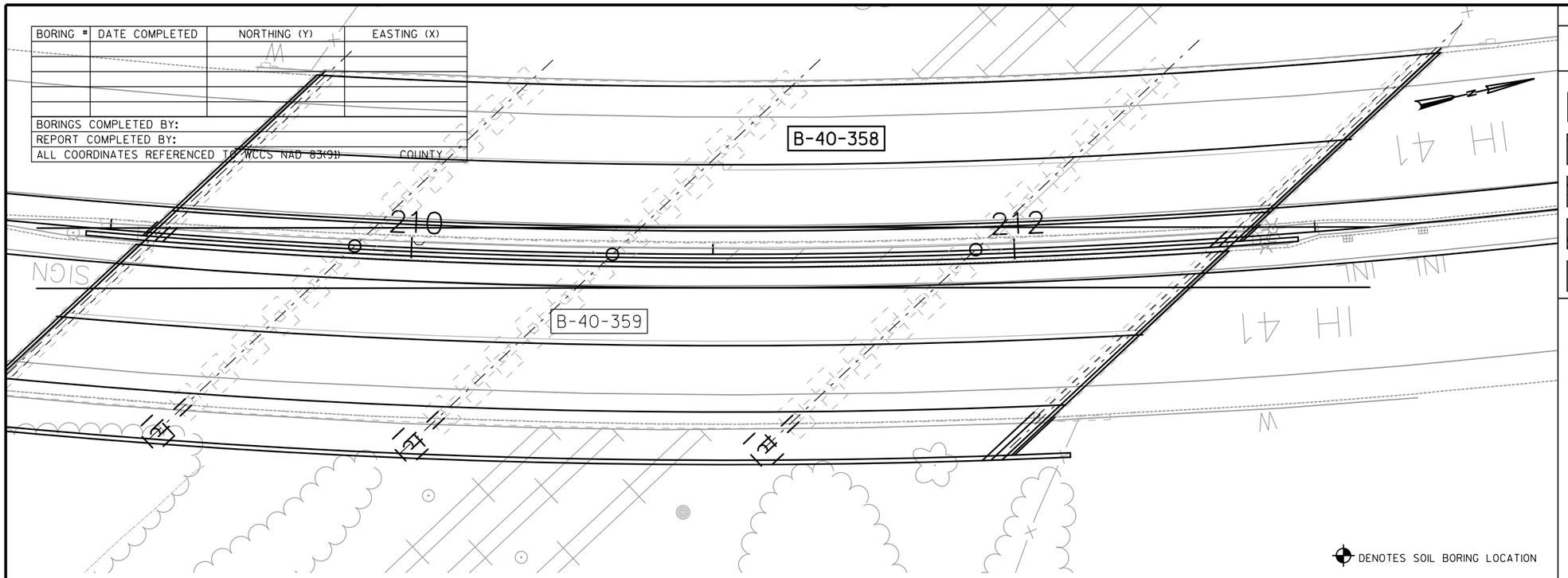
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BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)

BORINGS COMPLETED BY:

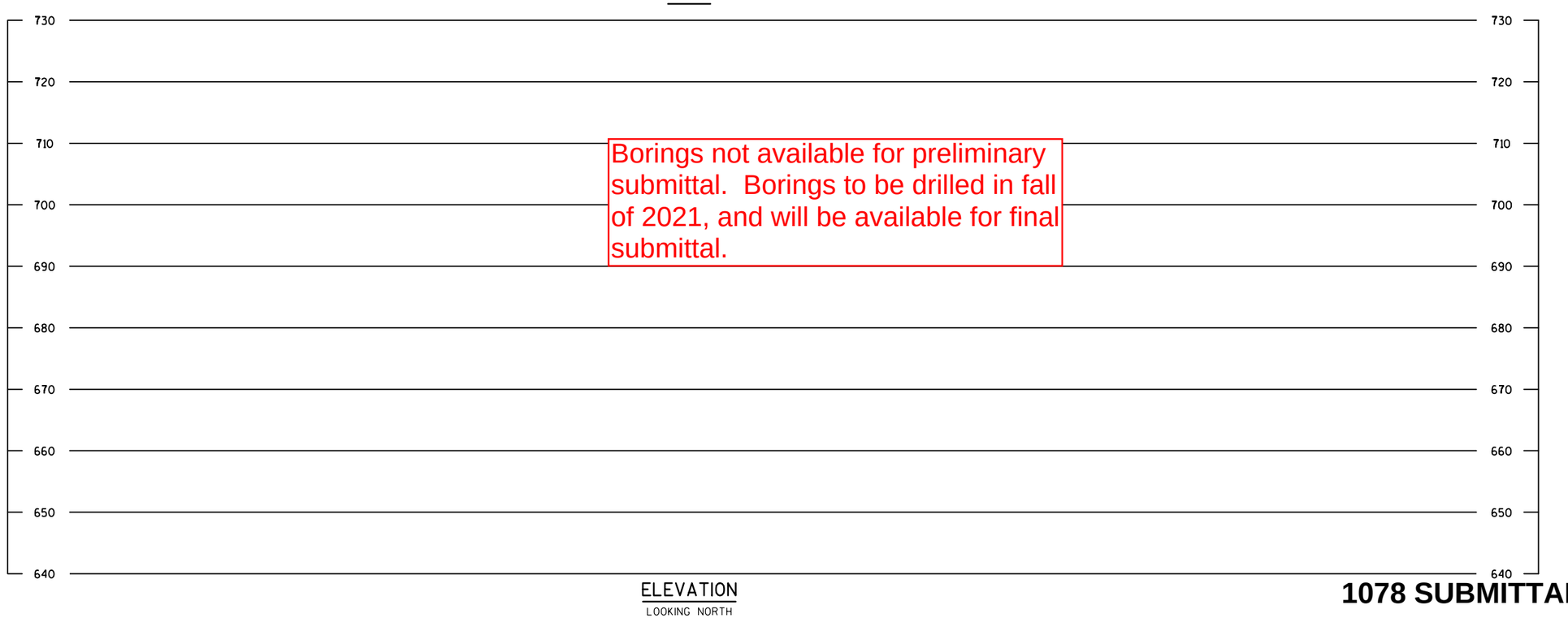
REPORT COMPLETED BY:

ALL COORDINATES REFERENCED TO WCCS NAD 83(91) COUNTY



DENOTES SOIL BORING LOCATION

PLAN



ELEVATION
LOOKING NORTH

1078 SUBMITTAL

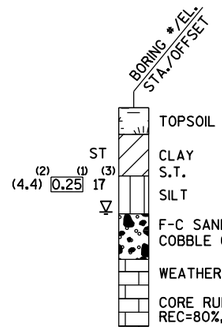
STATE PROJECT NUMBER

1100-20-70

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) UNCONFINED STRENGTH, AS DETERMINED BY UNCONFINED COMPRESSION TEST

(3) 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 S.T.-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 B-40-358

DRAWN BY	FEG	PLANS CK'D.	MSS

SUBSURFACE EXPLORATION

SHEET 5 OF 5

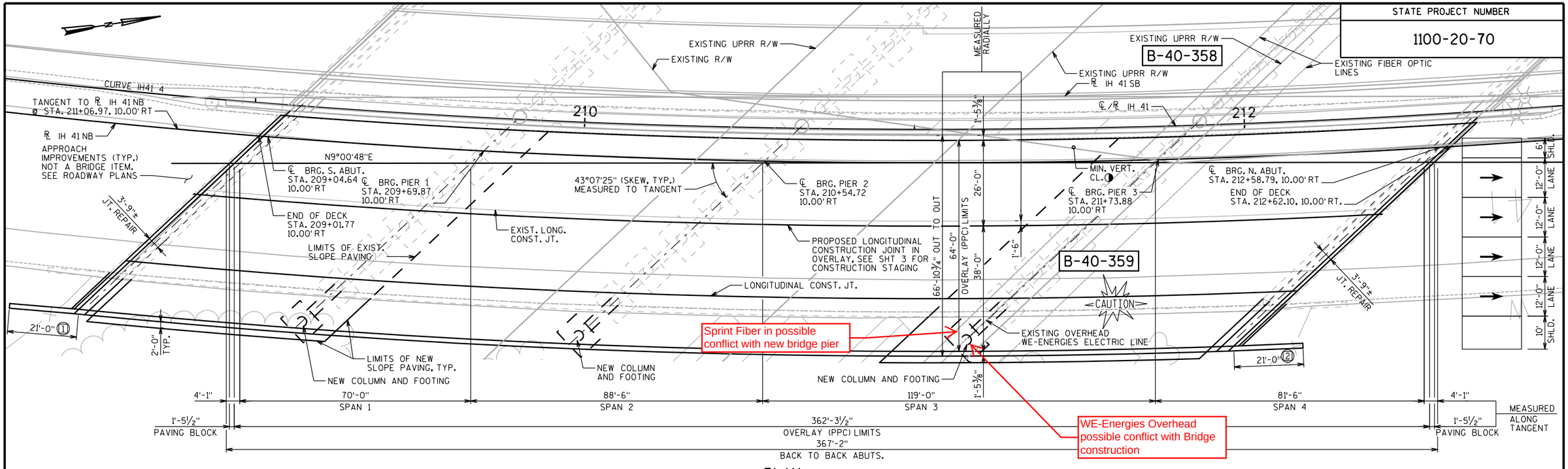
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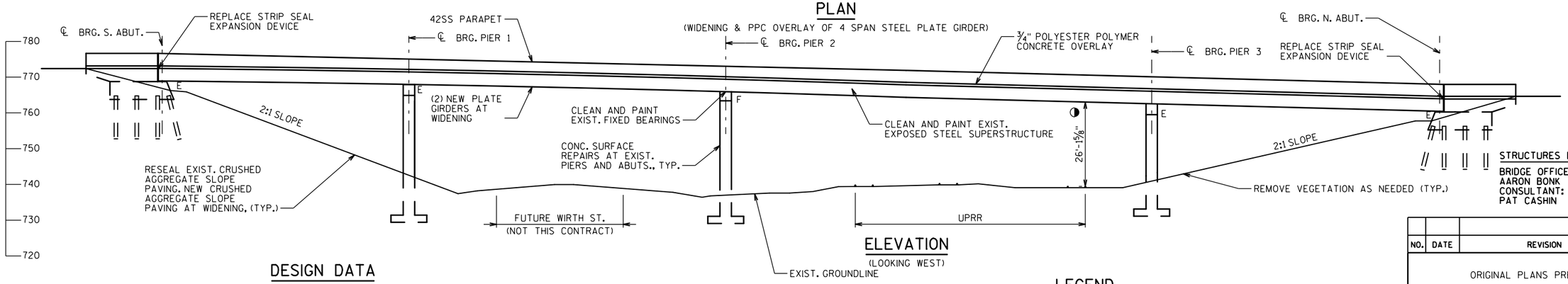
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STATE PROJECT NUMBER
1100-20-70



PLAN

(WIDENING & PPC OVERLAY OF 4 SPAN STEEL PLATE GIRDER)



ELEVATION

(LOOKING WEST)

EXIST. GROUNDLINE

HORIZONTAL CURVE DATA

IH 41

P.I. = 213+70.66
Y = 315986.64
X = 566625.59
Δ = 25° 16' 11"
D = 2° 15' 00"
T = 570.83'
L = 1123.09'
R = 2546.48
P.C. = 207+99.83
Y = 315437.71
X = 566468.98
P.T. = 219+22.92
Y = 316549.89
X = 566532.90

TRAFFIC DATA

IH 41 NB

EXISTING A.D.T. = 74,500 (2019)
FUTURE A.D.T. = 84,650 (2040)
R.D.S. = 60 M.P.H.

DESIGN DATA

LIVE LOAD: LFD
(EXISTING GIRDERS 1 THRU 7)

DESIGN RATING: HS-20
INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

LIVE LOAD: LRFD
(NEW GIRDER 1A&1B)

DESIGN RATING: HL-93
INVENTORY RATING FACTOR: RF=X.XX
OPERATING RATING FACTOR: RF=X.XX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

STRUCTURE IS RATED FOR A PPC OVERLAY OF 12.5 PSF.

MATERIAL PROPERTIES

POLYESTER POLYMER CONCRETE OVERLAY	f'c = 4,000 psi
CONCRETE MASONRY:	
SUPERSTRUCTURE	f'c = 4,000 psi
ALL OTHER	f'c = 3,500 psi
BAR STEEL REINFORCEMENT	fy = 60,000 psi
STRUCTURAL STEEL (ASTM A709, GRADE 50)	Fy = 50,000 psi
CARBON STEEL (ASTM A709, GRADE 36)	Fy = 36,000 psi

FOUNDATION DATA

USING THE MODIFIED GATES ACCEPTANCE METHOD:

ABUTMENTS SHALL BE SUPPORTED ON XXXX PILING DRIVEN TO REQUIRED DRIVING RESISTANCE OF XXX TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

PIERS SHALL BE SUPPORTED ON XXXX PILING DRIVEN TO REQUIRED DRIVING RESISTANCE OF XXX TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

*THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.50 USING MODIFIED GATES DYNAMIC FORMULA TO DETERMINE DRIVEN PILE CAPACITY.

ESTIMATED PILE LENGTHS:

SOUTH ABUTMENT	XX FEET
PIER 1	XX FEET
PIER 2	XX FEET
PIER 3	XX FEET
NORTH ABUTMENT	XX FEET

LEGEND

- → TRAFFIC DIRECTION
- ◑ LOCATION PER EXISTING PLANS AND MIN. CLEARANCE TAKEN FROM LIDAR SCAN DATA. MIN. VERT. CLR. REMAINS UNCHANGED DUE TO WIDENING.
- (X) WINGWALL NUMBER

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION AND GENERAL NOTES
3. PROFILE GRADE LINE AND QUANTITIES
4. CONSTRUCTION STAGING
5. SUBSURFACE EXPLORATION

1078 SUBMITTAL

STRUCTURES DESIGN CONTACTS
BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
HNTB
11414 W. PARK PLACE
MILWAUKEE, WI 53224
(414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-359

IH 41 NB OVER UPRR

COUNTY	CITY
MILWAUKEE	WAUWATOSA

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MSS	HDA	FEG	MSS

GENERAL PLAN AND ELEVATION

SHEET 1 OF 5

PRE_165

STATE PROJECT NUMBER
1100-20-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TOT HE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).

"PIGMENTED SURFACE SEALER" SHALL BE APPLIED TO THE TOP AND INSIDE FACES OF NEW PARAPETS. "PIGMENTED SURFACE SEALER RESEAL" TO BE APPLIED TO THE TOP AND INSIDE FACES OF EXISTING PARAPETS. PERFORM "CLEANING PARAPETS" PRIOR TO APPLYING "PIGMENTED SURFACE SEALER" ON EXISTING PARAPETS.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY BRIDGES". WHEN THE DECK PREPARATION AND FULL-DEPTH DECK REPAIRS ARE COMPLETE, APPLY THE ¾" PPC OVERLAY TO LIMITS SHOWN ON THESE PLANS.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE ITEMS ARE APPROXIMATE.

- CONCRETE SURFACE REPAIR
- CRACK SEALING EPOXY
- EPOXY CRACK SEALING
- EPOXY INJECTION CRACK REPAIR
- CORED HOLES 2-INCH DIAMETER
- VEGETATION REMOVAL B-40-359
- REMOVING LOOSE CONCRETE

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY BRIDGES". THIS INCLUDES THE CONCRETE TO REPLACE SECTIONS OF PARAPET WITHIN THE JOINT REPAIR LIMITS. THIS EXCLUDES THE ¾" OF PPC OVERLAY. REFER TO THE "GENERAL PLAN AND ELEVATION" SHEET FOR THE LIMITS OF THE PPC OVERLAY.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

UNDER THE BID ITEM "ADHESIVE ANCHORS NO. 5 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

A MINIMUM OF ½-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS IN THE DECK WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER UNDER THE BID ITEM "CRACK SEALING EPOXY".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF ¾" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 1". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR AS "EXPANSION DEVICE" AND PAID FOR BY LINEAR FOOT.

EXISTING FIXED BEARINGS AT PIER 2 TO BE CLEANED AND PAINTED AS PART OF THE BID ITEM "STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-359".

CLEAN AND PAINT ALL EXISTING EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CONNECTIONS, ETC. PAINT APPLICATION ON THE BEARINGS SHALL BE BRUSHED ON.

EXISTING STEEL SUPERSTRUCTURE AND BEARINGS SHALL BE PAINTED LIGHT GRAY, FEDERAL COLOR NUMBER 26293.

REMOVAL OF THE PARAPET AT THE JOINTS IS INCLUDED IN BID ITEM "JOINT REPAIR".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

REMOVE ALL VEGETATION FROM EXISTING CRUSHED AGGREGATE SLOPE PAVING PRIOR TO RESEALING THE SLOPE PAVING. REMOVAL OF VEGETATION IS INCLUDED IN THE BID ITEM "VEGETATION REMOVAL B-40-359".

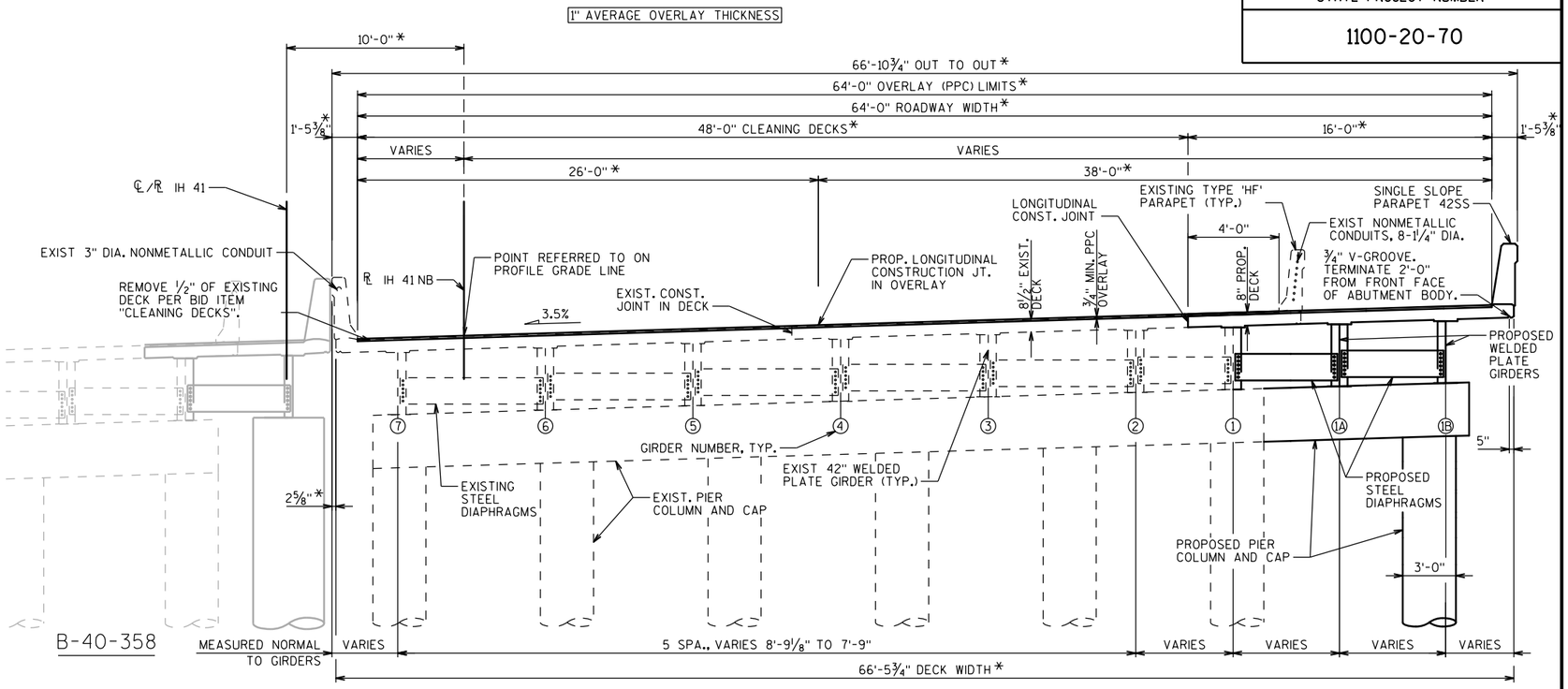
ALL EXIST. CRUSHED AGGREGATE SLOPE PAVING ASSOCIATED WITH THIS STRUCTURE TO BE RESEALED. ALL NEW SLOPE PAVING TO BE CRUSHED AGGREGATE SLOPE PAVING.

"REMOVING STRUCTURE B-40-359" SHALL INCLUDE PARTIALLY REMOVING THE EXISTING DECK, PARAPET, LIGHT BLISTER, AND LIGHT POLE.

THE EXISTING STRUCTURE (B-40-359) IS A 4-SPAN STEEL GIRDER BRIDGE. 367.2' LONG X 54.9' WIDE. THE SUBSTRUCTURE AND SUPERSTRUCTURE SHALL BE WEDENED BY ADDING 2 GIRDER LINES TO THE OUTSIDE SHOULDER.

ALL FIELD CONNECTIONS SHALL BE MADE WITH ¾" DIAMETER FRICTION TYPE HIGH-TENSILE STRENGTH BOLTS UNLESS SHOWN OR OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-359" SHALL BE THE EXISTING GROUND LINE.



TYPICAL SECTION

(LOOKING NORTH)

* MEASURED RADIALLY

GENERAL NOTES CONTINUED

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE QUANTITY FOR BACKFILL STRUCTURE TYPE A IS CALCULATED BASED ON THE "BACKFILL STRUCTURE LIMITS" DETAIL ON THE "PROFILE GRADE LINE AND QUANTITIES" SHEET.

BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

THE MINIMUM CONCRETE HAUNCH SHALL BE 2" FOR DESIGN CALCULATIONS AND THE HAUNCH CONCRETE QUANTITY IS BASED ON A MINIMUM DEPTH OF 1¼" WHICH IS THE MAXIMUM HAUNCH QUANTITY FOR WHICH THE CONTRACTOR WILL BE PAID.

PROPOSED NEW GIRDERS AND NEW DIAPHRAGMS PAINTING ARE INCLUDED IN THE BID ITEM "PAINTING EPOXY SYSTEM B-40-359". EXISTING GIRDERS AND EXISTING DIAPHRAGMS ARE INLCUDED IN THE BID ITEM "STRUCUTRE REPAINTING RECYCLED ABRASIVE B-40-359".

ALL STRUCTURAL STEEL FOR GIRDERS, SPLICE PLATES, CONNECTION PLATES, BEARING STIFFENERES, AND TRANSVERSE STIFFENERS SHALL BE HIGH-STRENGTH STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A709 GRADE 50. ALL OTHER STRUCUTRAL STELL SHALL BE STRUCTURAL CARBON STEEL, ASTM A709 GRADE 36.

FOR PILE SPLICE DETAIL SEE "XXXXXX" SHEET.

1078 SUBMITTAL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-359

DRAWN BY	FEG	PLANS CK'D.	MSS

TYPICAL SECTION AND GENERAL NOTES

SHEET 2 OF 5

PRE_166

8

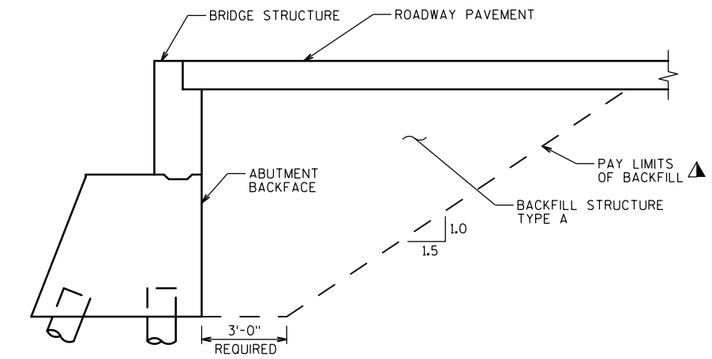
8

STATE PROJECT NUMBER
1100-20-70

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	S. ABUT.	PIER 1	PIER 2	PIER 3	N. ABUT.	SUPER.	TOTAL
203.0220.XX	REMOVING STRUCTURE B-40-359	EACH							1
203.0330.XX	DEBRIS CONTAINMENT B-40-359	EACH							1
206.1000.XX	EXCAVATION FOR STRUCTURES BRIDGES B-40-359	LS							1
210.1500	BACKFILL STRUCTURE TYPE A	TON							
502.0100	CONCRETE MASONRY BRIDGES	CY							
502.0717.S	CRACK SEALING EPOXY	LF							
502.3101	EXPANSION DEVICE	LF							
502.3210	PIGMENTED SURFACE SEALER	SY							
502.3215	PIGMENTED SURFACE SEALER RESEAL	SY							
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH							
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB							
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB							
506.0105	STRUCTURAL STEEL CARBON	LB							
506.0605	STRUCTURAL STEEL HS	LB							
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH							
506.3020	WELDED STUD SHEAR CONNECTORS 7/8X7-INCH	EACH							
506.5000.XX	BEARING ASSEMBLIES FIXED B-40-359	EACH							
509.0301	PREPARATION DECKS TYPE 1	SY							
509.0302	PREPARATION DECKS TYPE 2	SY							
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF							
509.0500	CLEANING DECKS	SY							
509.1000	JOINT REPAIR	SY							
509.1500	CONCRETE SURFACE REPAIR	SF							
509.2000	FULL-DEPTH DECK REPAIR	SY							
509.9020.S	EPOXY CRACK SEALING	LF							
509.9025.S	EPOXY INJECTION CRACK REPAIR	LF							
509.9026.S	CORED HOLES 2-INCH DIAMETER	EACH							
509.9050.S	CLEANING PARAPETS	LF							
511.1200.XX	TEMPORARY SHORING B-40-359	SF							
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY							
517.0600.XX	PAINTING EPOXY SYSTEM B-40-359	LS							1
517.0901.S	PREPARATION AND COATING OF TOP FLANGES B-40-359	EACH							1
517.1801.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-359	EACH							1
517.4501.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-359	EACH							1
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF							
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY							
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	SY							
SPV.0105.XX	VEGETATION REMOVAL B-40-359	LS							1
SPV.0165.XX	REMOVING LOOSE CONCRETE	SF							
SPV.0180.XX	POLYESTER POLYMER CONCRETE OVERLAY	SY							
	NON-BID ITEMS								
	PREFORMED JOINT FILLER								

ALL ITEMS ARE CATEGORY XXXX



TYPICAL SECTION THRU ABUTMENT

NOTES

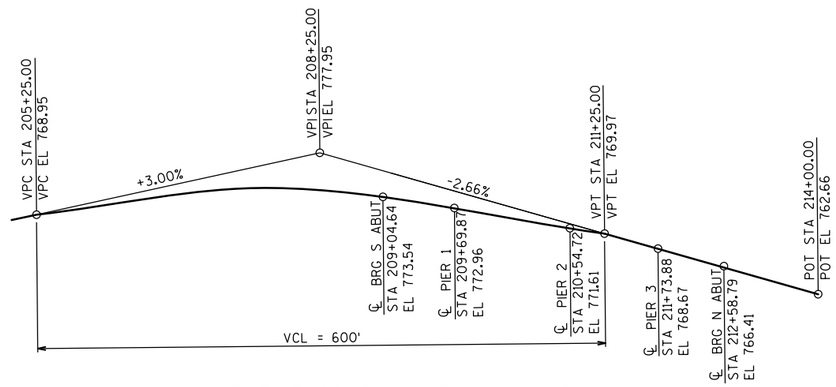
THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-359" SHALL BE THE EXISTING GROUNDLINE.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYONE PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL.

LEGEND

◭ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.



PROFILE GRADE LINE - IH-41 NB

(PROFILE TAKEN FROM EXISTING PLANS. UPDATED PROFILE TBD IN FINAL DESIGN.)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-359

DRAWN BY FEG | PLANS CK'D. MSS

PROFILE GRADE LINE AND QUANTITIES

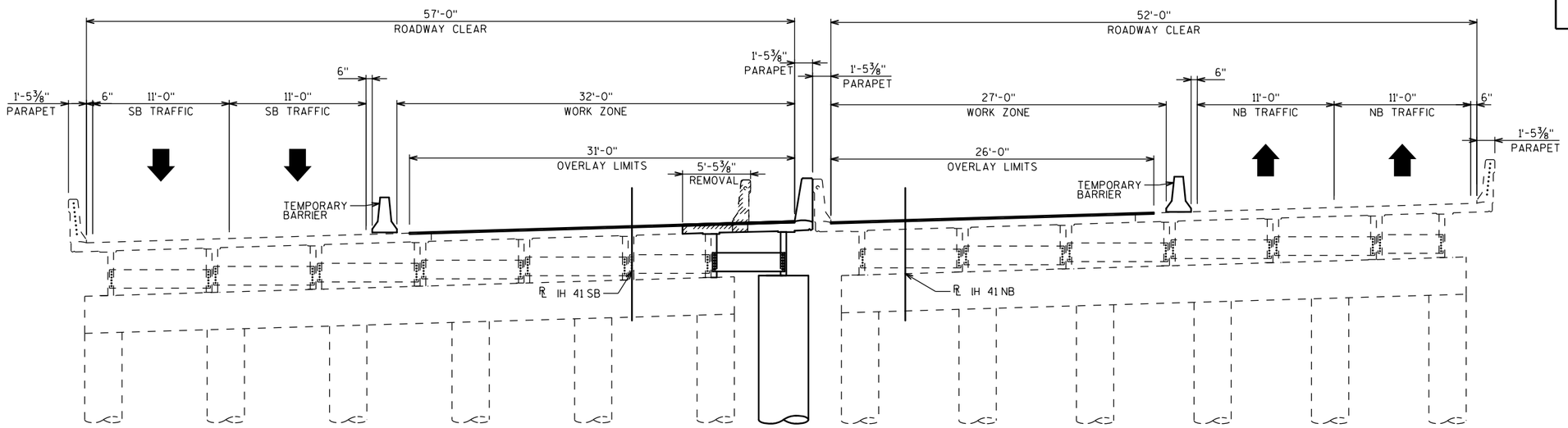
SHEET 3 OF 5

1078 SUBMITTAL

PRE_167

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STATE PROJECT NUMBER
1100-20-70



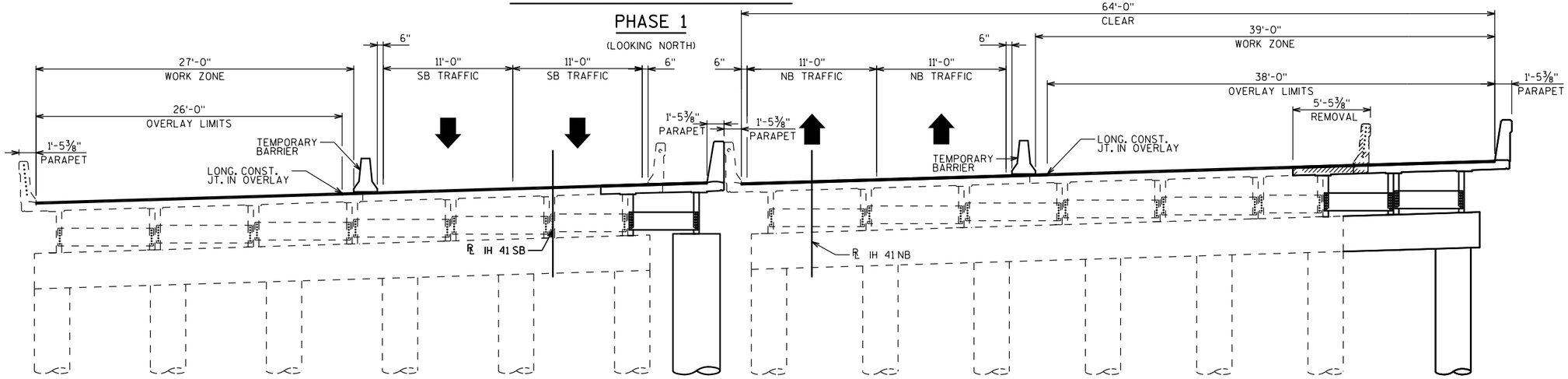
B-40-358

B-40-359

CROSS SECTION THRU ROADWAY

PHASE 1

(LOOKING NORTH)



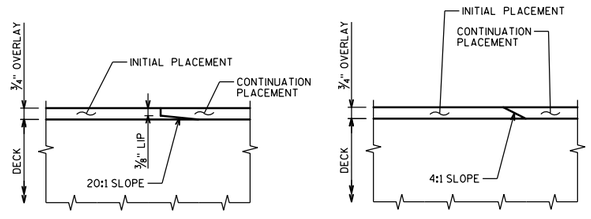
B-40-358

B-40-359

CROSS SECTION THRU ROADWAY

PHASE 2

(LOOKING NORTH)



TRANSVERSE JOINT

LONGITUDINAL JOINT

DETAIL REQUIRED WHEN OVERLAY IS NOT COMPLETED WITHIN THE WORK PERIOD OR IF STAGED CONSTRUCTION IS USED. OPTIONAL (CONTRACTOR) JOINTS TO BE APPROVED BY THE ENGINEER.

AVOID PLACING LONGITUDINAL JOINTS NEAR WHEEL PATHS (PLACE AT PROPOSED LANE LINES OR IN THE MIDDLE OF THE PROPOSED LANE).

NOTES

PHASE NUMBERS FOR STRUCTURE WORK DO NOT MATCH ROADWAY STAGING PLAN NUMBERING.

SEE ROADWAY PLANS FOR COMPLETE PROJECT STAGING DETAILS.

DIMENSIONS SHOWN ARE MEASURED RADIALLY.

1078 SUBMITTAL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-359

DRAWN BY FEG | PLANS CK'D. MSS

CONSTRUCTION STAGING

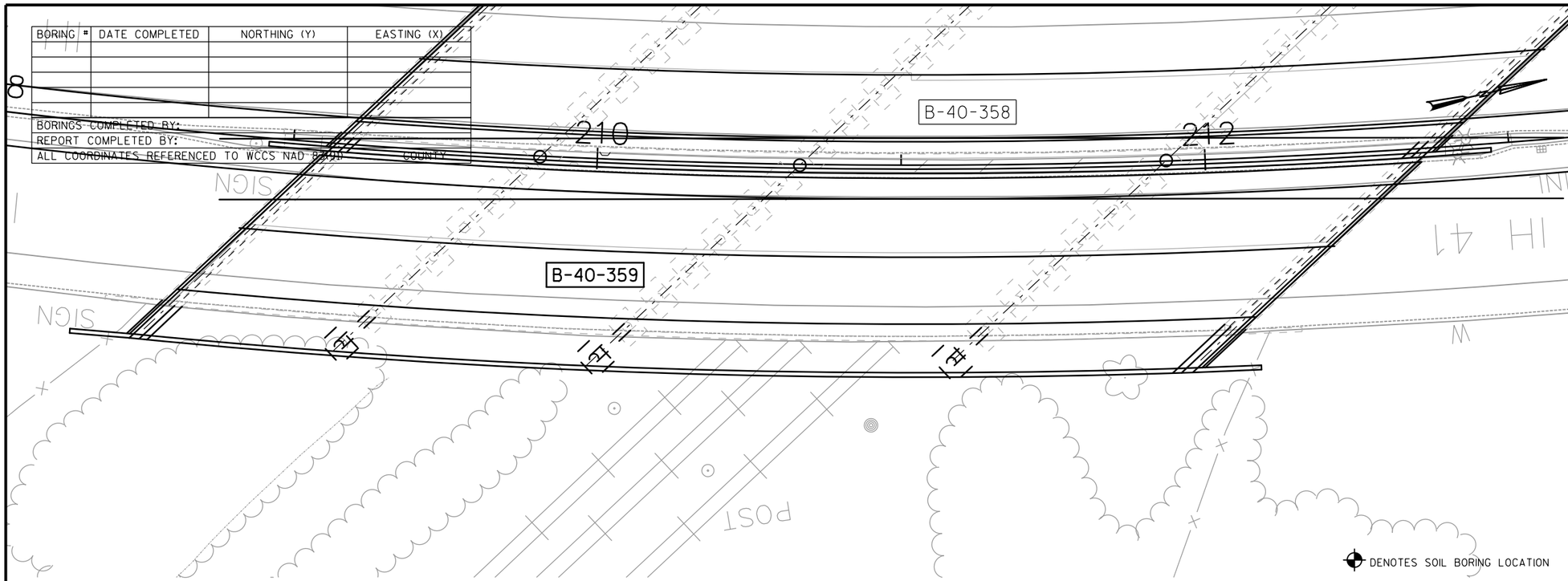
SHEET 4 OF 5

PRE_168

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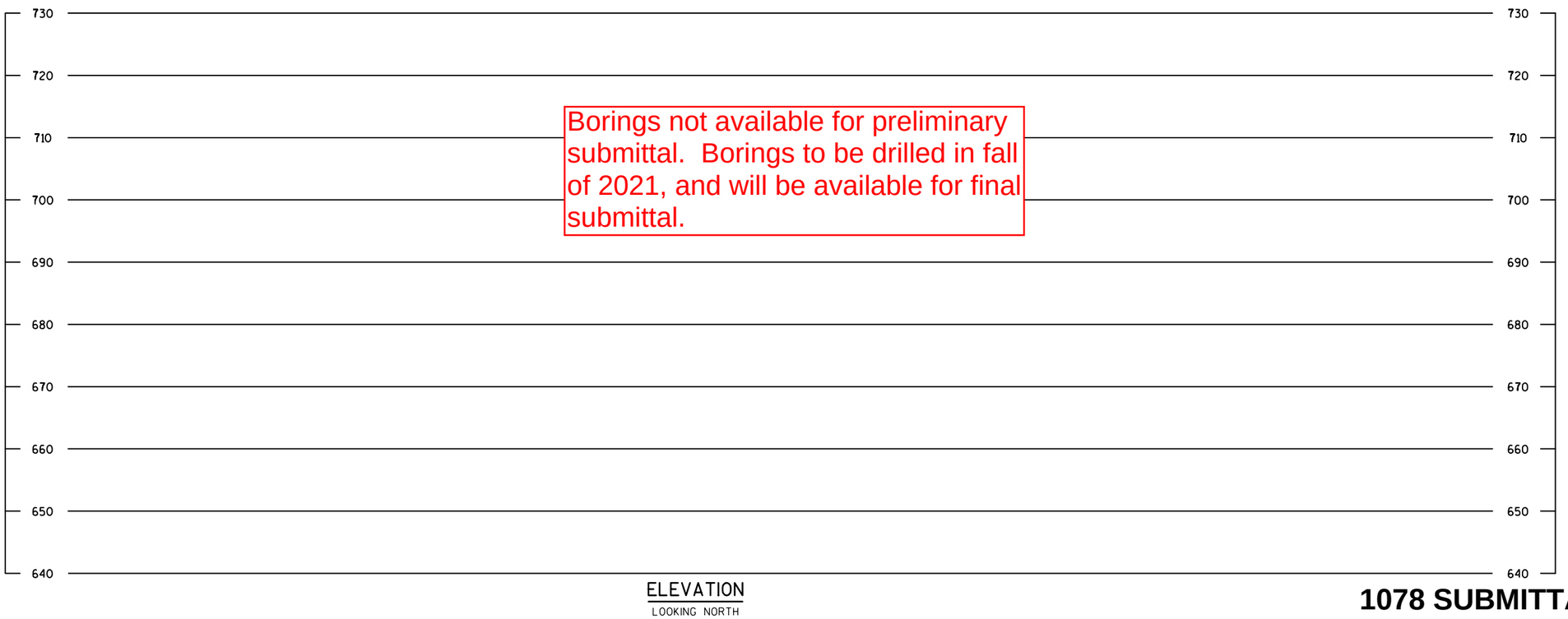
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)

BORINGS COMPLETED BY:
REPORT COMPLETED BY:
ALL COORDINATES REFERENCED TO WCCS NAD 83(07) COUNTY



DENOTES SOIL BORING LOCATION

PLAN



Borings not available for preliminary submittal. Borings to be drilled in fall of 2021, and will be available for final submittal.

ELEVATION
LOOKING NORTH

1078 SUBMITTAL

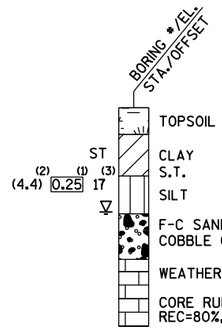
STATE PROJECT NUMBER

1100-20-70

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) UNCONFINED STRENGTH, AS DETERMINED BY UNCONFINED COMPRESSION TEST

(3) 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 S.T.-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 B-40-359

DRAWN BY	FEG	PLANS CK'D.	MSS

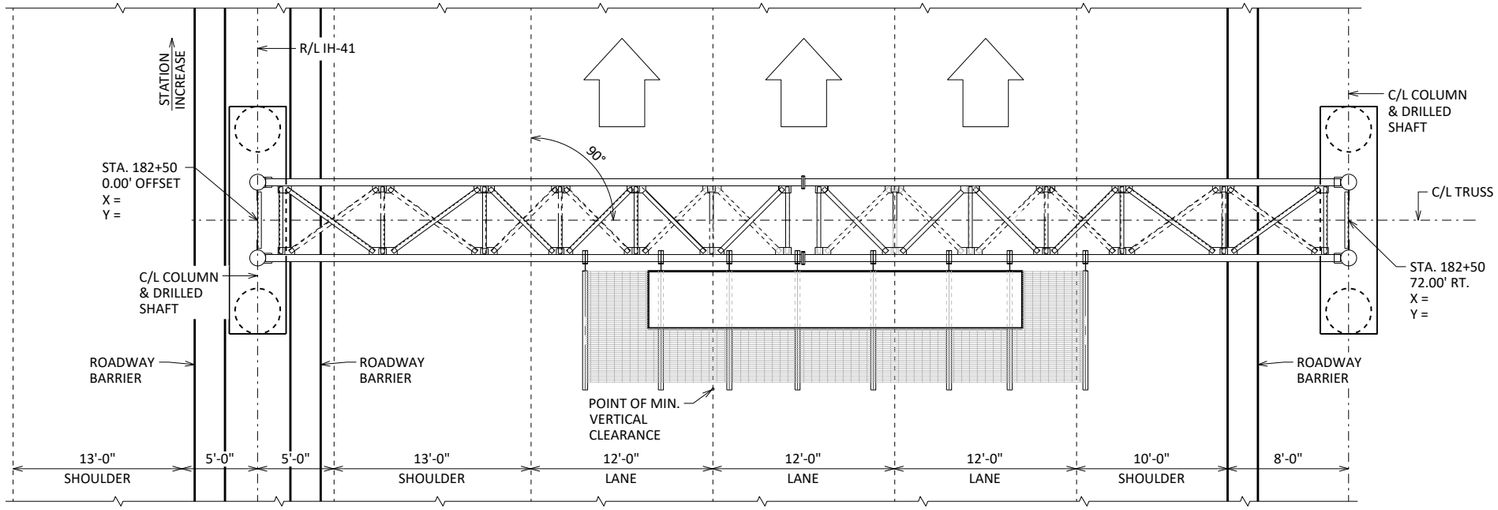
SUBSURFACE EXPLORATION

SHEET 5 OF 5

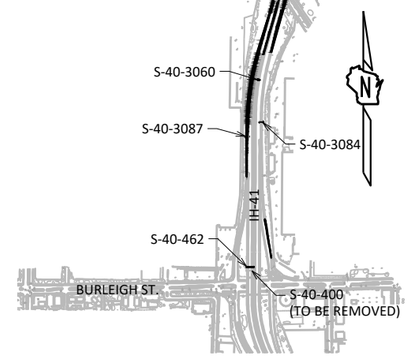
PRE_169

STATE PROJECT NUMBER

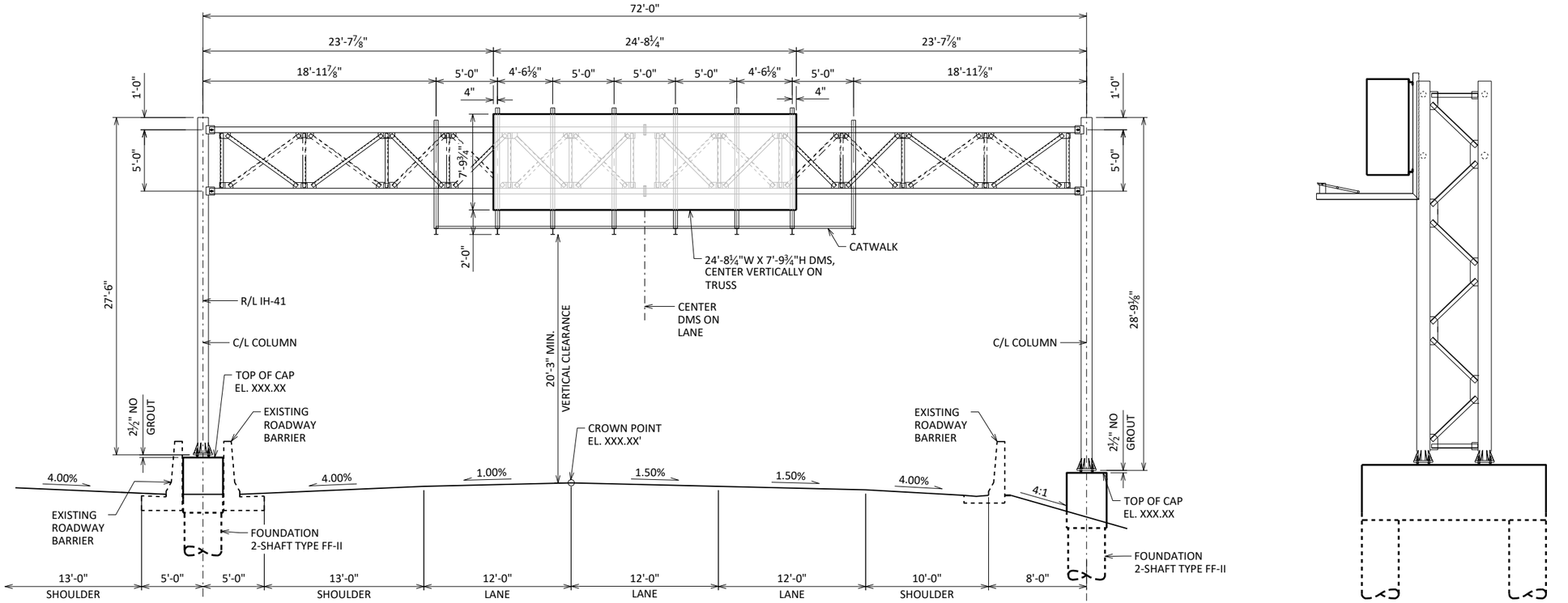
1100-20-70



PLAN



LOCATION MAP



ELEVATION

LOOKING SOUTH AT F.F. OF SIGN
STA. 182+50 IH-41 SB

END VIEW

LOOKING WEST

NOTE

DMS PANEL AND Z-BRACKETS DOT FURNISHED

S-40-400 TO BE REMOVED AFTER S-40-462 IS COMPLETED. S-40-400 IS AN APPROX. 71 FT. STEEL 4-CHORD TRUSS ON 2-CHORD TRUSS COLUMNS AND DRILLED SHAFT WITH CAP FOUNDATIONS.

LEGEND

☆ ELEVATIONS ARE ALONG C/L TRUSS.

(---) SIGN NUMBER, SEE PERMANENT SIGNING PLAN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-40-462

DRAWN BY SAD | PLANS CK'D

GENERAL PLAN & ELEVATION

SHEET 2

PRE_170

SCALE = 4.00

8

8

DESIGN DATA

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS

STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I:	(MAX DC): 1.1 DC + 1.0 W + 1.0 ICE
EXTREME I:	(MIN DC): 0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)
	1.0 TRG (TRUCK INDUCED GUST VIBRATION)

MATERIAL PROPERTIES

CONCRETE MASONRY ——— f'_c = 3,500 PSI

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ——— f_y = 60,000 PSI

STRUCTURAL ANGLES, PLATE AND BARS - ASTM A709 GRADE 36 ——— f_y = 36,000 PSI

CHORDS - ASTM A500 GRADE C ——— f_y = 46,000 PSI

COLUMN PIPE - ASTM A500 GRADE C ——— f_y = 46,000 PSI

HIGH STRENGTH BOLTS - A325 ——— f_y = 92,000 PSI

ANCHOR RODS - ASTM F1554 GRADE 55

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE, ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), XXXX COUNTY ZONE, NAD 83 (1997). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "BUTTERFLY 2-CHORD" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

CATWALKS ARE USED ON 4-CHORD STRUCTURES CARRYING DMS SIGNS. CATWALKS SHALL BE INCIDENTAL TO THE BID ITEM "BUTTERFLY 2-CHORD" FOR EACH DMS SIGN STRUCTURE IN THE PLAN SET.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT (DIA)".

STRUCTURE DESIGN DATA

STRUCTURE ID	OVERHEAD SIGN AREA	MAX. PANEL DEPTH	STANDARD DESIGN
S-40-3060	200 SF	8'-0"	TYPE NS
DESIGN SIGN	208 SF	8'-0"	

ALL STRUCTURES IN THIS GROUP ARE DESIGNED FOR DESIGN SIGN LOADING.

STATE PROJECT NUMBER

1100-20-70

TRAFFIC VOLUME

IH 41 NB

A.D.T. (2041) = 169,300
R.D.S. = 60 MPH

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S-40-3060	TOTALS
203.0220	REMOVING ANCILLARY STRUCTURE (S-40-237)	EACH	1	1
531.1100	CONCRETE MASONRY ANCILLARY STRUCTURES TYPE NS	CY	---	---
531.1140	STEEL REINFORCEMENT HS ANCILLARY STRUCTURES TYPE NS	LB	---	---
531.1160	STEEL REINFORCEMENT HS COATED ANCILLARY STRUCTURES TYPE NS	LB	---	---
531.20XX	DRILLING SHAFT XX-INCH	LF	---	---
532.50XX	BUTTERFLY X-CHORD NS (STRUCTURE)	EACH	1	1

LIST OF DRAWINGS:

1. GENERAL NOTES & DESIGN DATA
2. LAYOUT S-40-3060

LIST OF STANDARD DRAWINGS

3. I. 2-CHORD BUTTERFLY
4. II. 2-CHORD BUTTERFLY CONNECTION DETAILS 1
5. III. 2-CHORD BUTTERFLY CONNECTION DETAILS 2
6. IV 2-CHORD BUTTERFLY CONNECTION DETAILS 3
7. V. 2-CHORD BUTTERFLY CATWALK DETAILS
8. VI. 2-CHORD BUTTERFLY ELECTRICAL DETAILS
9. VII. 2-CHORD BUTTERFLY FOUNDATION DETAILS 1
10. VIII. 2-CHORD BUTTERFLY FOUNDATION DETAILS 2

STRUCTURE DESIGN CONTACTS:

AARON BONK 608-261-0261
STEVEN DOOCY 608-261-6063

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

2-CHORD BUTTERFLY PLANS

IH-41 ZOO FREEWAY

COUNTY	CITY
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
AASHTO LRFD-LTS1 W/ INTERIM REVISIONS

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
SAD		SAD	

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 15

PRE_171

I.D. 1100-20-00 DATE: JUNE 2021

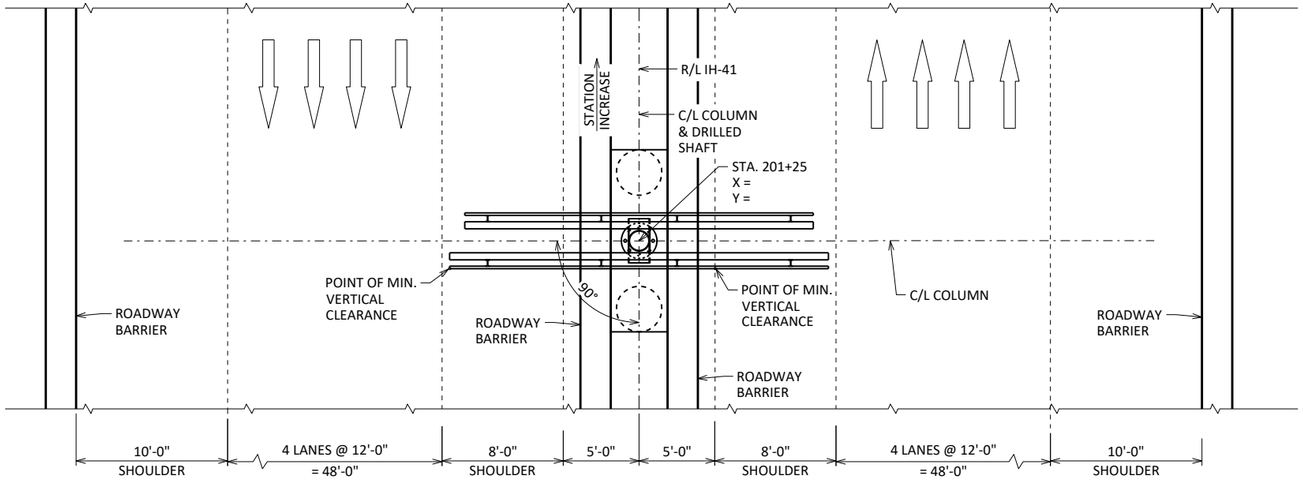
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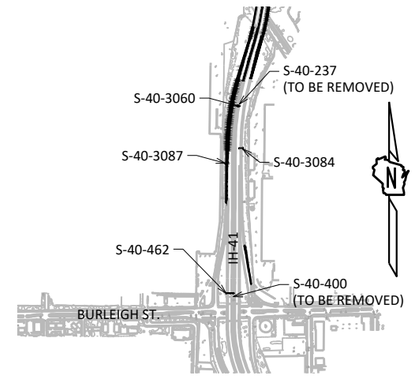
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STATE PROJECT NUMBER

1100-20-70



PLAN



LOCATION MAP

ELEVATION

LOOKING NORTH AT F.F. OF SIGN
STA. 197+00 IH-41 NB

END VIEW

LOOKING WEST

NOTE

POINT OF MINIMUM VERTICAL CLEARANCE STA. 201+25, 0.00' OFFSET. ELEV. XXX.XX

S-40-237 TO BE REMOVED AFTER S-40-462 IS COMPLETED. S-40-237 IS AN APPROX. 23 FT. STEEL 2-CHORD BUTTERFLY ON A STEEL COLUMN WITH A LIGHT POLE AND DRILLED SHAFT WITH CAP FOUNDATIONS.

LEGEND

☆ ELEVATIONS ARE ALONG C/L TRUSS.

(---) SIGN NUMBER, SEE PERMANENT SIGNING PLAN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-40-3060

DRAWN BY SAD | PLANS CK'D

GENERAL PLAN & ELEVATION

SHEET 2

PRE_172

SCALE = 4.00

8

8

DESIGN DATA

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS

STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I:	(MAX DC): 1.1 DC + 1.0 W + 1.0 ICE
EXTREME I:	(MIN DC): 0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)
	1.0 TRG (TRUCK INDUCED GUST VIBRATION)

MATERIAL PROPERTIES

CONCRETE MASONRY ——— f'_c = 3,500 PSI

HIGH STRENGTH STEEL
REINFORCEMENT, GRADE 60 ——— f_y = 60,000 PSI

STRUCTURAL ANGLES,
PLATE AND BARS - ASTM A709 GRADE 36 ——— f_y = 36,000 PSI

CHORDS - ASTM A500 GRADE C ——— f_y = 46,000 PSI

COLUMN PIPE
DESIGN TRUSS TYPE I - ASTM A500 GRADE C ——— f_y = 46,000 PSI
DESIGN TRUSS TYPE II - API 5L PSL2 GRADE 46 ——— f_y = 46,000 PSI

HIGH STRENGTH BOLTS - A325 ——— f_y = 92,000 PSI

ANCHOR RODS - ASTM F1554 GRADE 55

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE, ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), XXXX COUNTY ZONE, NAD 83 (1997). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "TRUSS CANTILEVER 4-CHORD (TYPE)" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

CATWALKS ARE USED ON 4-CHORD STRUCTURES CARRYING DMS SIGNS. CATWALKS SHALL BE INCIDENTAL TO THE BID ITEM "TRUSS CANTILEVER 4-CHORD (TYPE)" FOR EACH DMS SIGN STRUCTURE IN THE PLAN SET.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT (DIA)".

STRUCTURE DESIGN DATA

STRUCTURE ID	OVERHEAD SIGN AREA	MAX. PANEL DEPTH	STANDARD DESIGN
S-40-3084	190 SF	12'-6"	TYPE II
S-40-3085	170 SF	10'-6"	TYPE II
S-40-3086	142 SF	8'-6"	TYPE II
S-40-3087	121 SF	7'-0"	TYPE II

STATE PROJECT NUMBER

1100-20-70

TRAFFIC VOLUME

IH 41 NB

A.D.T. (2041) = 169,300
R.D.S. = 60 MPH

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S-40-3084	S-40-3085	S-40-3086	S-40-3087	TOTAL
531.2036	DRILLING SHAFT 36-INCH	LF	1	1	1	1	4
531.6020	FOUNDATION TWO-SHAFT TYPE II	EACH	1	1	1	1	4
532.6020	TRUSS CANTILEVER 4-CHORD TYPE II	EACH	1	1	1	1	4

LIST OF DRAWINGS:

1. GENERAL NOTES & DESIGN DATA
2. LAYOUT S-40-3084
3. LAYOUT S-40-3085
4. LAYOUT S-40-3086
5. LAYOUT S-40-3087

LIST OF STANDARD DRAWINGS

8. I. 4-CHORD TRUSS CANTILEVER
9. II. 4-CHORD TRUSS CANT. CONNECTION DETAILS 1
10. III. 4-CHORD TRUSS CANT. CONNECTION DETAILS 2
11. IV 4-CHORD TRUSS CANT. CONNECTION DETAILS 3
12. V. 4-CHORD TRUSS CANT. CATWALK DETAILS
13. VI. 4-CHORD TRUSS CANT. ELECTRICAL DETAILS
14. VII. 4-CHORD TRUSS CANT. FOUNDATION DETAILS 1
15. VIII. 4-CHORD TRUSS CANT. FOUNDATION DETAILS 2

STRUCTURE DESIGN CONTACTS:

AARON BONK 608-261-0261
STEVEN DOOCY 608-261-6063

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

4-CHORD CANTILEVER TRUSS PLANS

IH-41 ZOO FREEWAY

COUNTY	CITY
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
AASHTO LRFD-LTS1 W/ INTERIM REVISIONS

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
SAD		SAD	

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 15

PRE_173

I.D. 1100-20-00 DATE: JUNE 2021

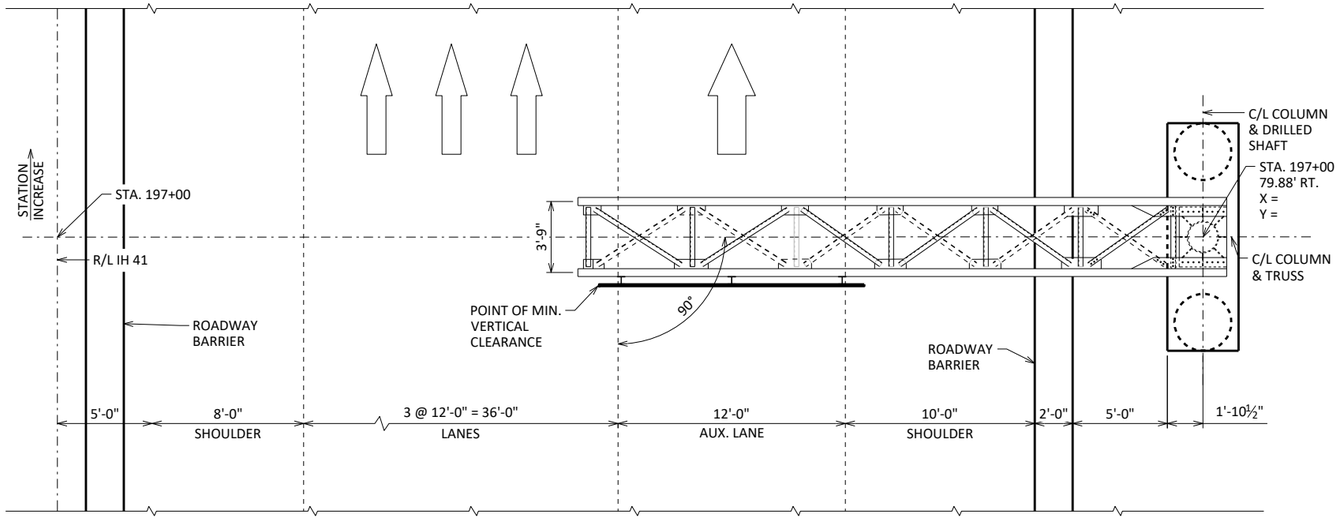
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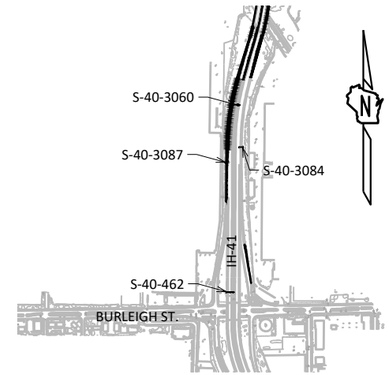
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STATE PROJECT NUMBER

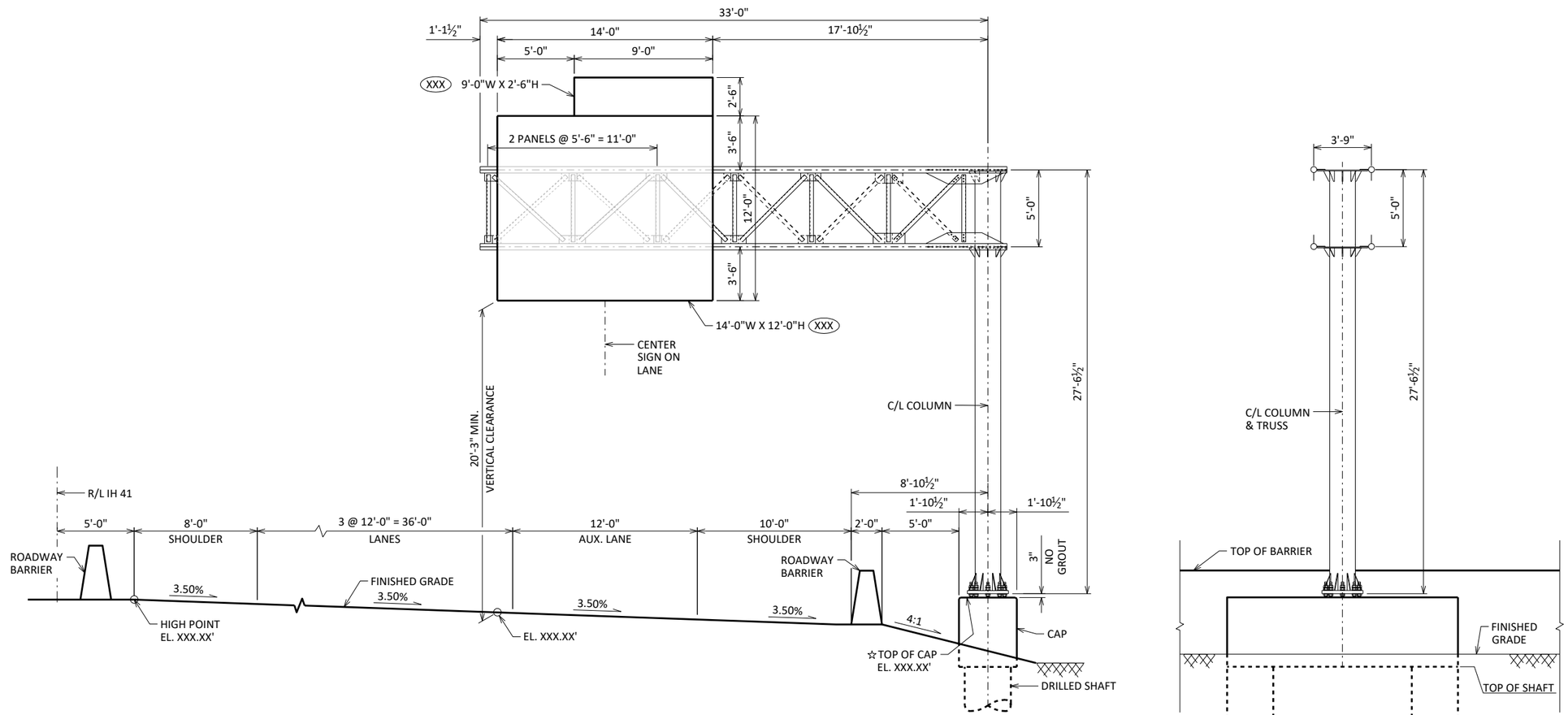
1100-20-70



PLAN



LOCATION MAP



ELEVATION

LOOKING NORTH AT F.F. OF SIGN
STA. 197+00 IH-41 NB

END VIEW

LOOKING WEST

LEGEND

☆ ELEVATIONS ARE ALONG C/L TRUSS.

--- SIGN NUMBER, SEE PERMANENT SIGNING PLAN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-40-3084

DRAWN BY SAD | PLANS CK'D

GENERAL PLAN & ELEVATION

SHEET 2

PRE_174

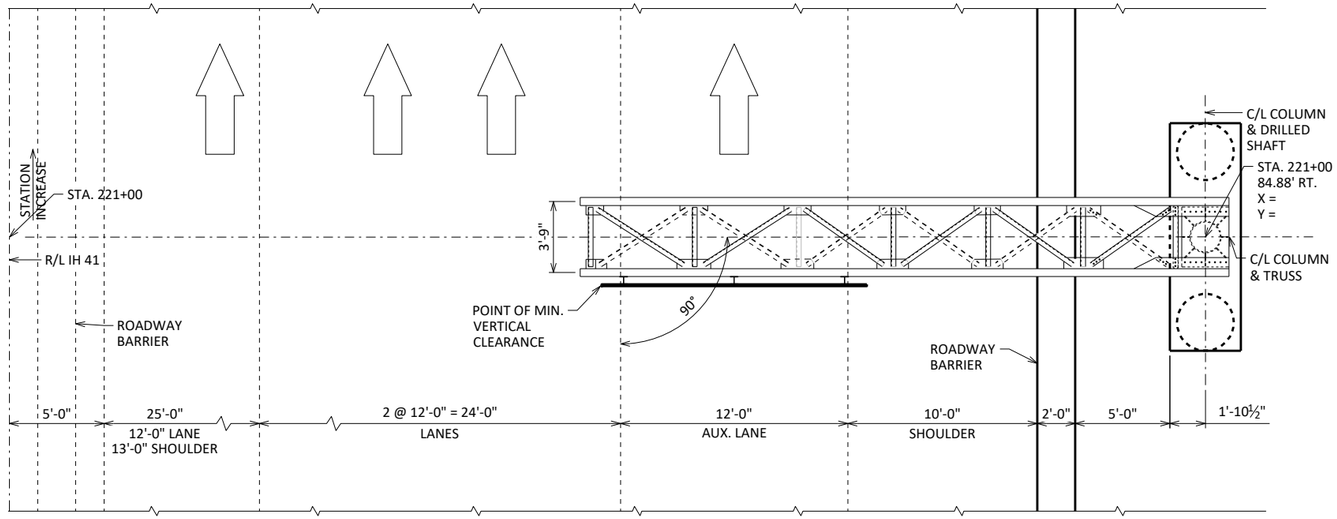
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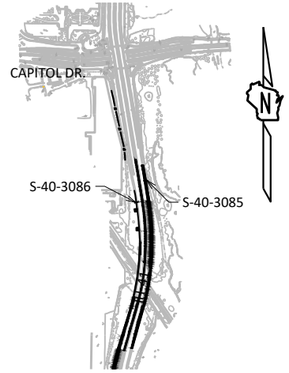
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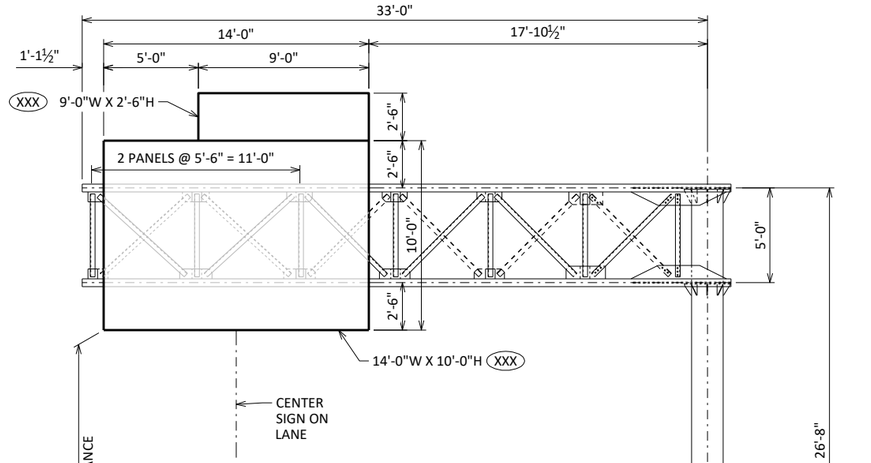
1100-20-70



PLAN

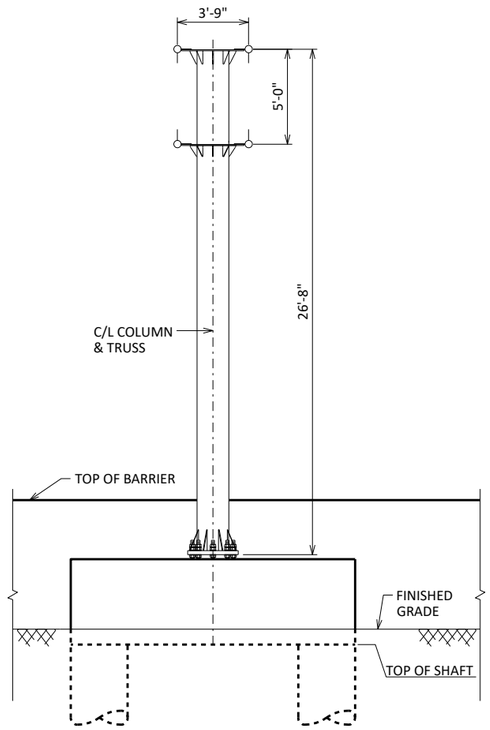


LOCATION MAP



ELEVATION

LOOKING NORTH AT F.F. OF SIGN
STA. 221+00 IH-41 NB



END VIEW

LOOKING WEST

LEGEND

☆ ELEVATIONS ARE ALONG C/L TRUSS.

(---) SIGN NUMBER, SEE PERMANENT SIGNING PLAN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-40-3085

DRAWN BY SAD | PLANS CK'D

GENERAL PLAN & ELEVATION

SHEET 3

PRE_175

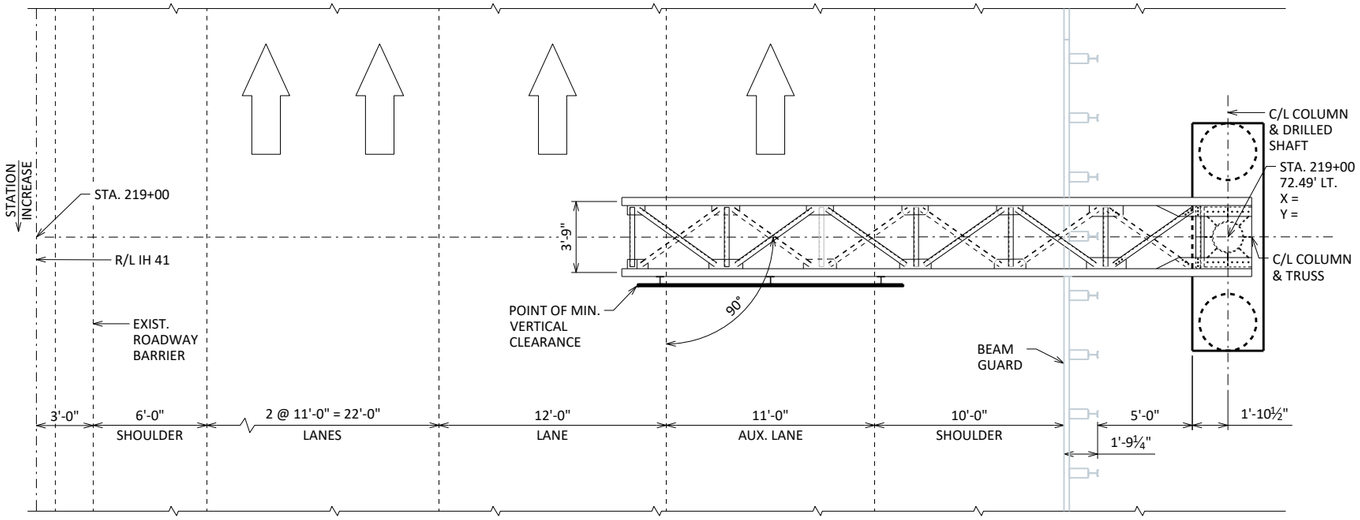
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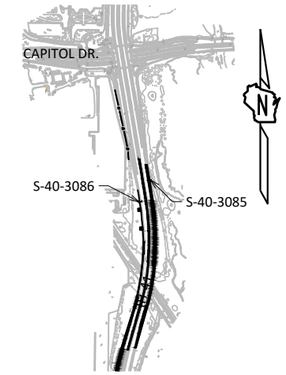
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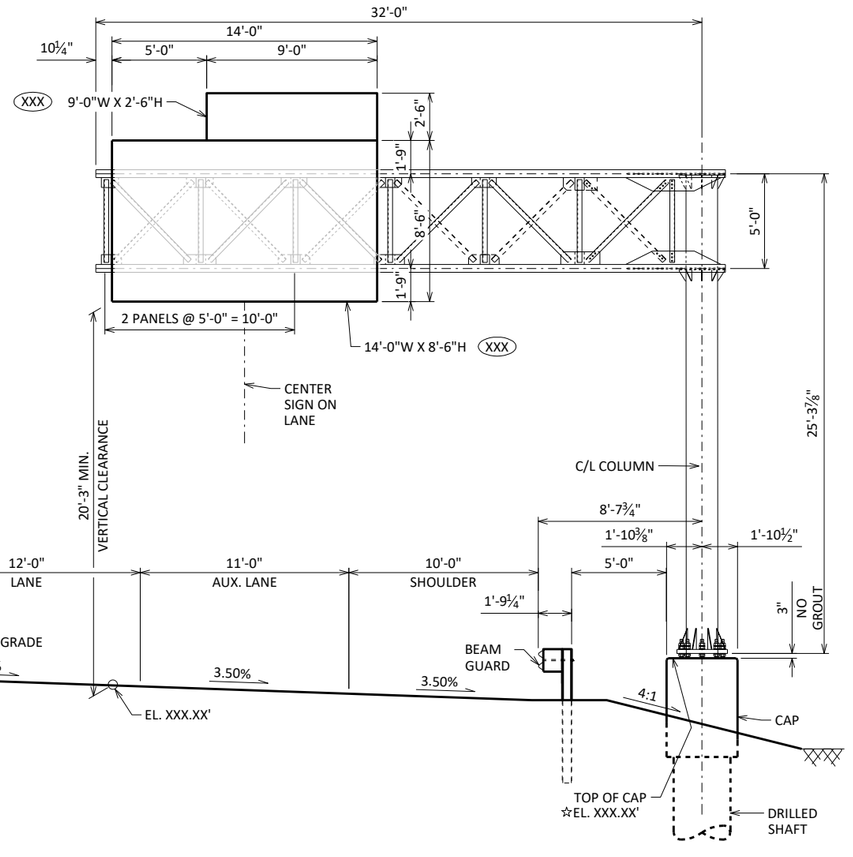
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PLAN

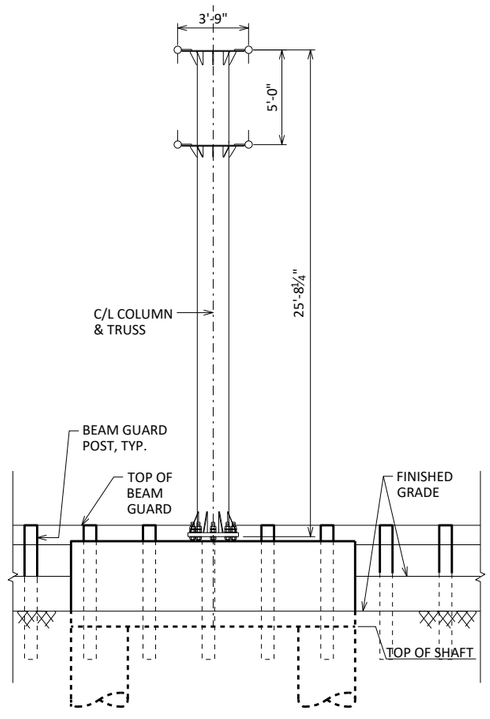


LOCATION MAP



ELEVATION

LOOKING SORTH AT F.F. OF SIGN
STA. 219+00 IH-41 SB



END VIEW

LOOKING EAST

LEGEND

☆ ELEVATIONS ARE ALONG C/L TRUSS.

(---) SIGN NUMBER, SEE PERMANENT SIGNING PLAN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-40-3086

DRAWN BY SAD | PLANS CK'D

GENERAL PLAN & ELEVATION

SHEET 4

PRE_176

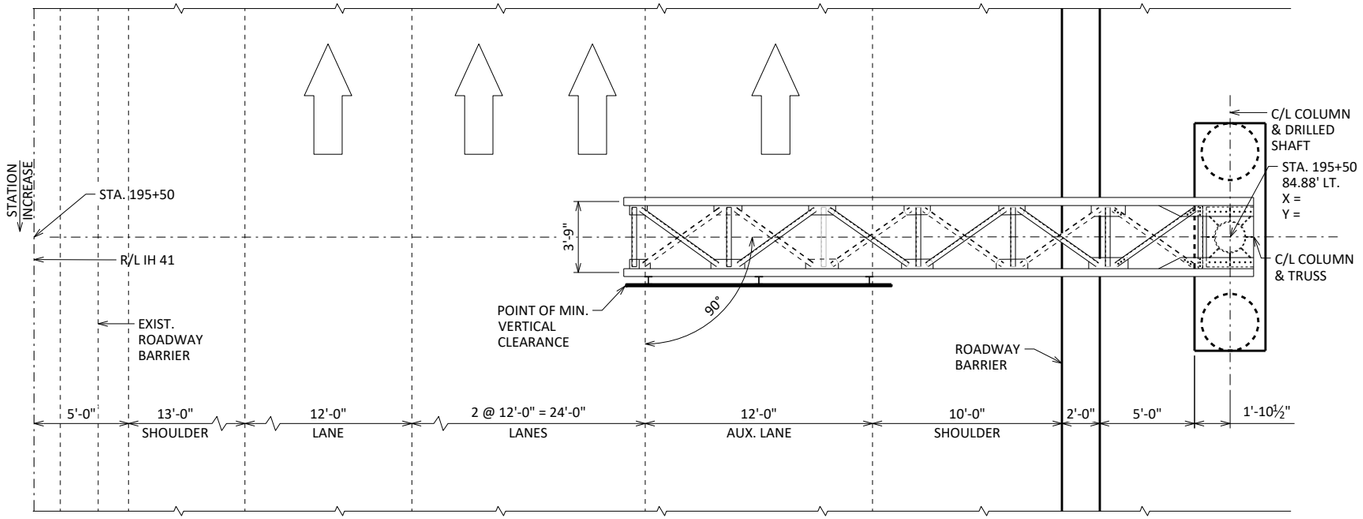
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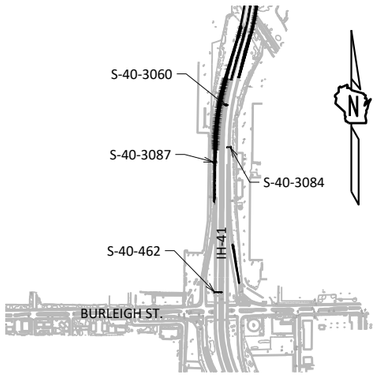
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STATE PROJECT NUMBER

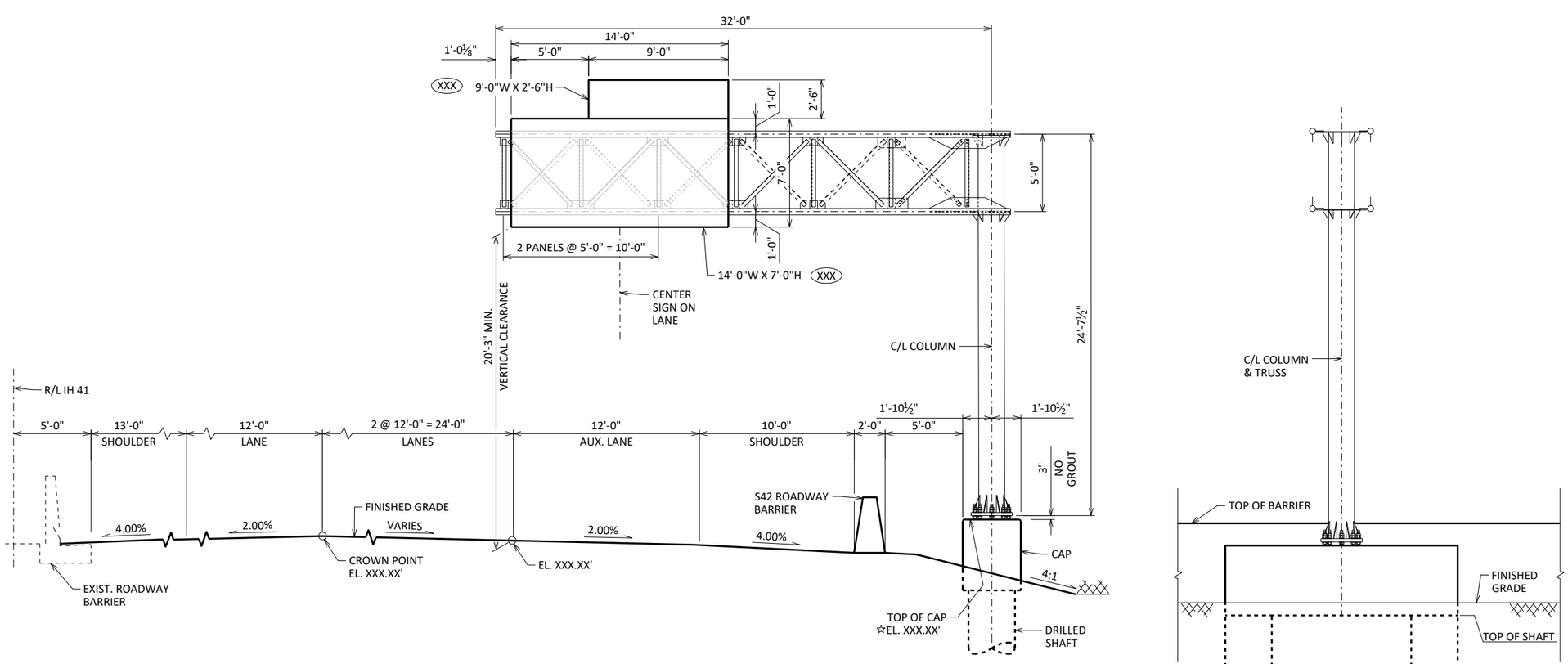
1100-20-70



PLAN



LOCATION MAP



ELEVATION

LOOKING SOUTH AT F.F. OF SIGN
STA. 195+50 IH-41 SB

END VIEW

LOOKING EAST

LEGEND

☆ ELEVATIONS ARE ALONG C/L TRUSS.

--- SIGN NUMBER, SEE PERMANENT SIGNING PLAN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-40-3087

DRAWN BY SAD | PLANS CK'D

GENERAL PLAN & ELEVATION

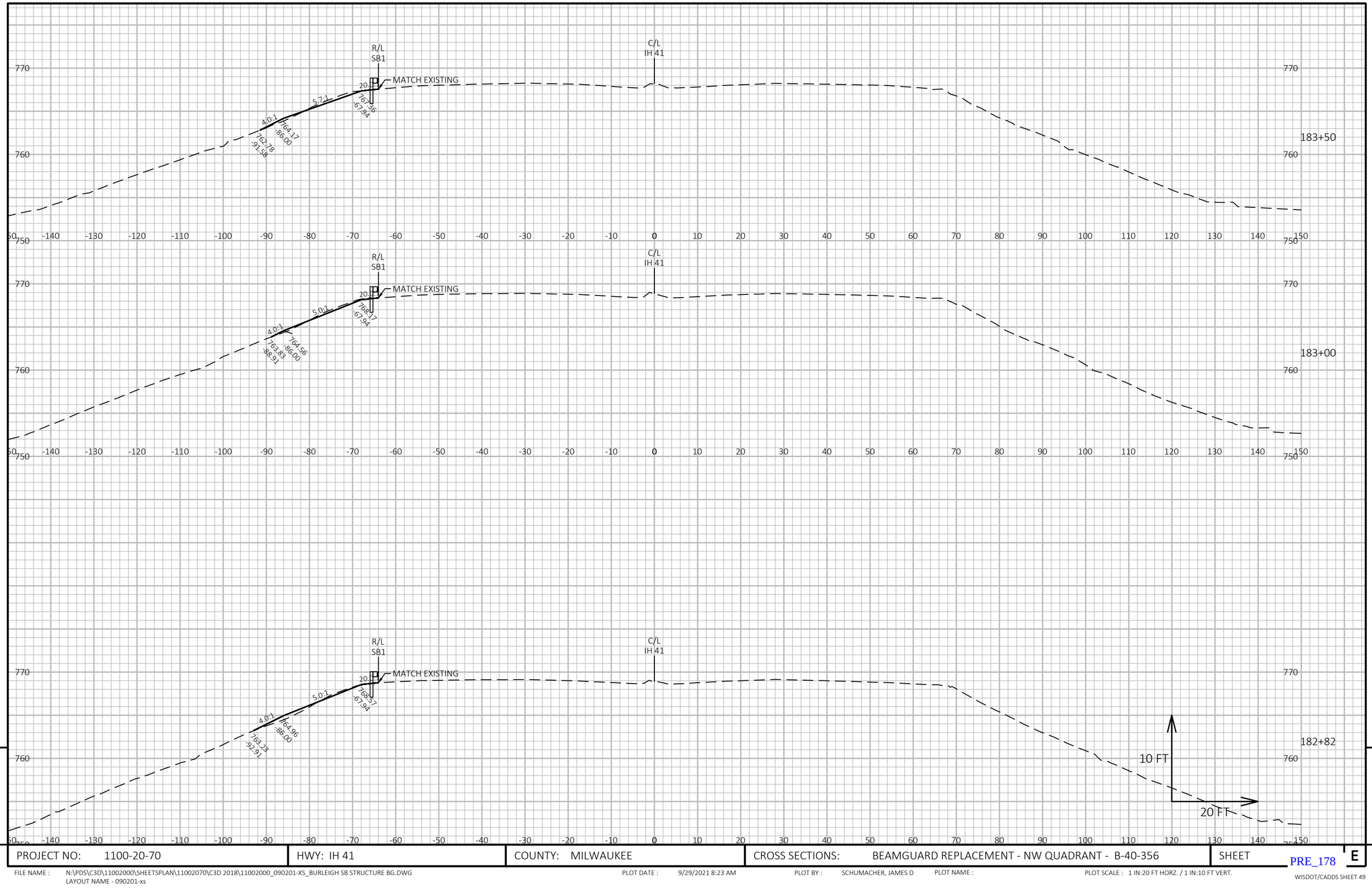
SHEET 5

PRE_177

SCALE = 4.00

8

8



9

9

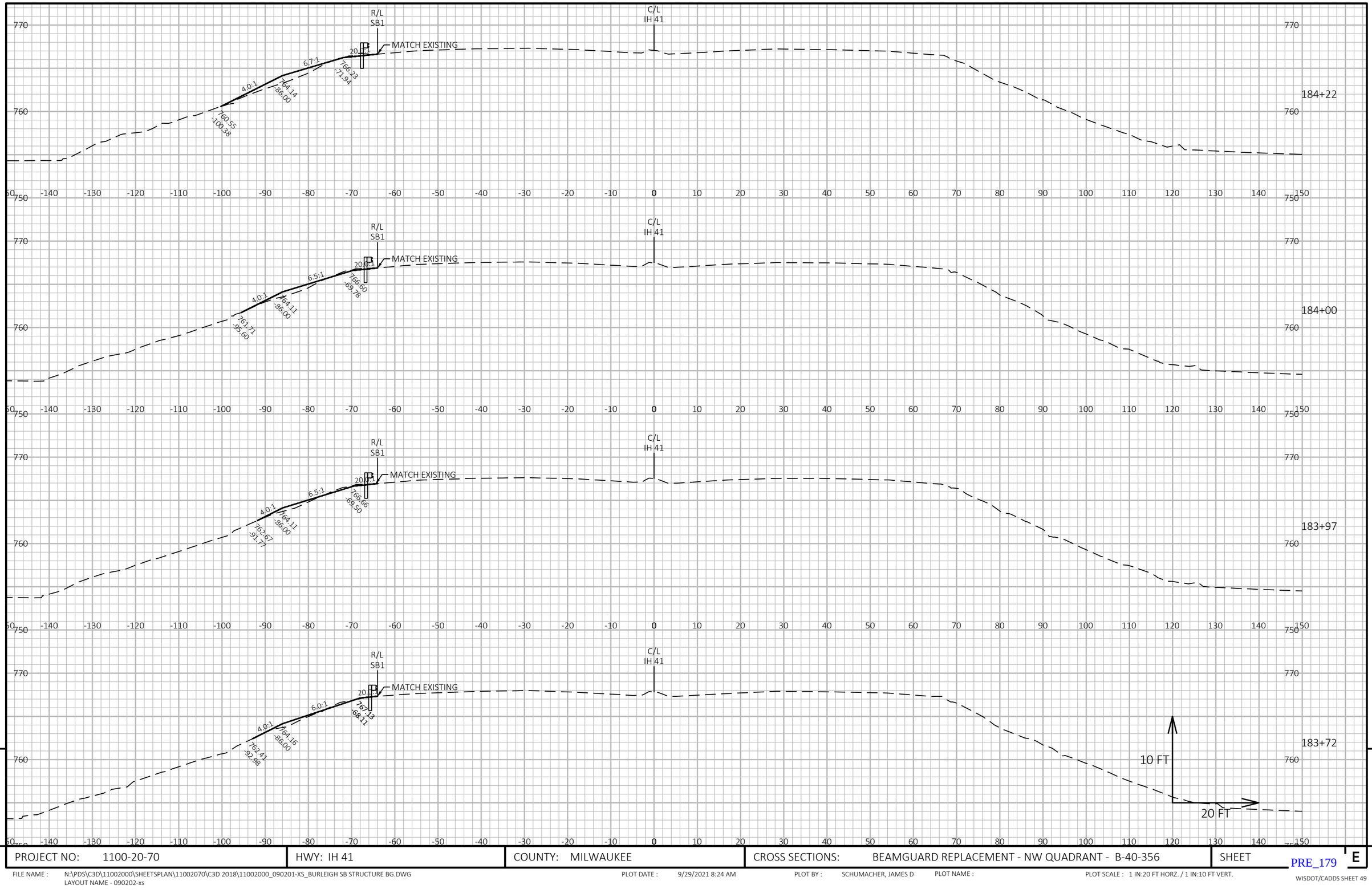
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: BEAMGUARD REPLACEMENT - NW QUADRANT - B-40-356	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090201-XS_BURLEIGH SB STRUCTURE BG.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 9/29/2021 8:23 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_178

WISDOT/CADDS SHEET 49



9

9

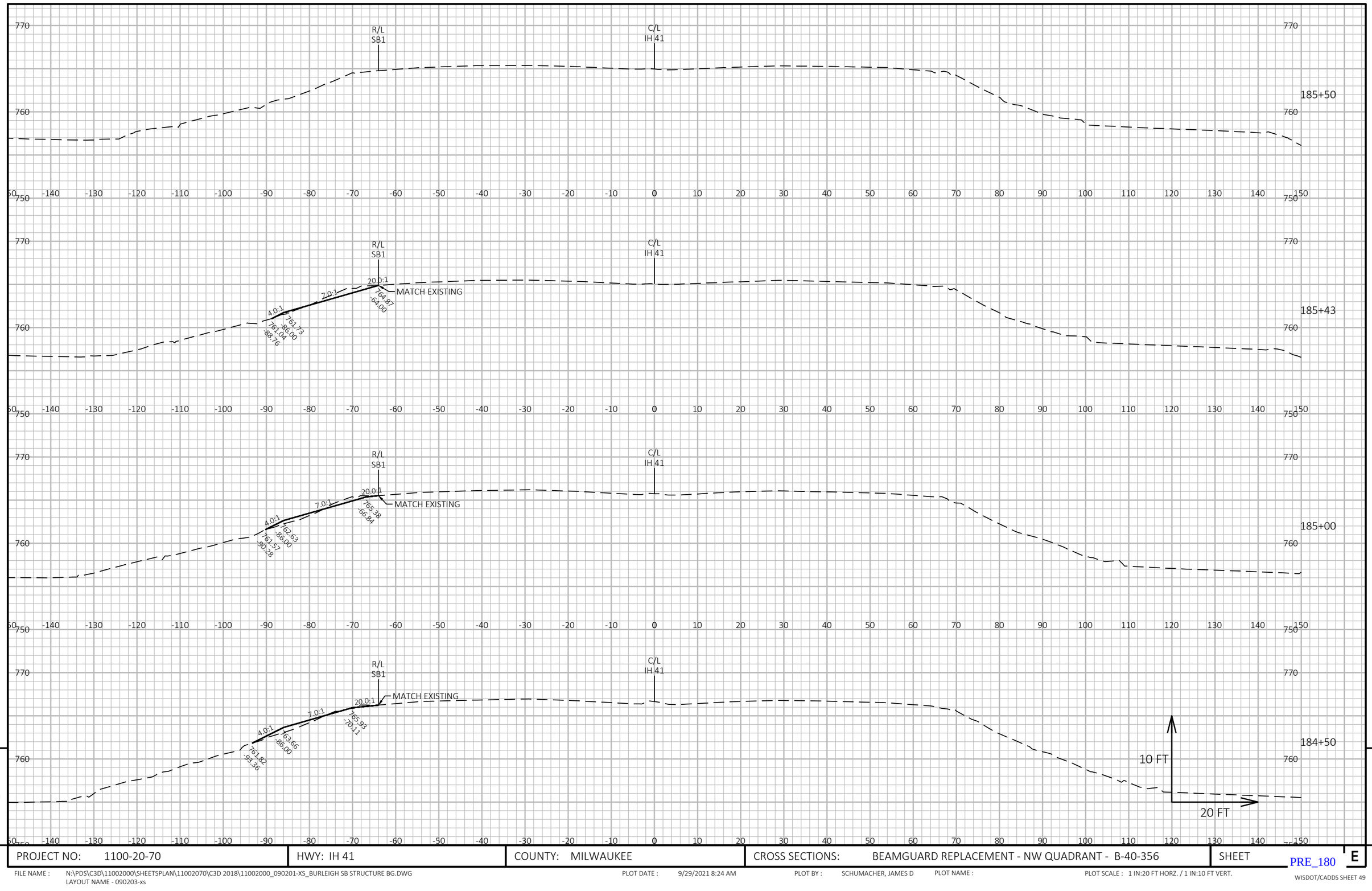
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: BEAMGUARD REPLACEMENT - NW QUADRANT - B-40-356	SHEET E

PRE_179

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090201-XS_BURLEIGH SB STRUCTURE BG.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 9/29/2021 8:24 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

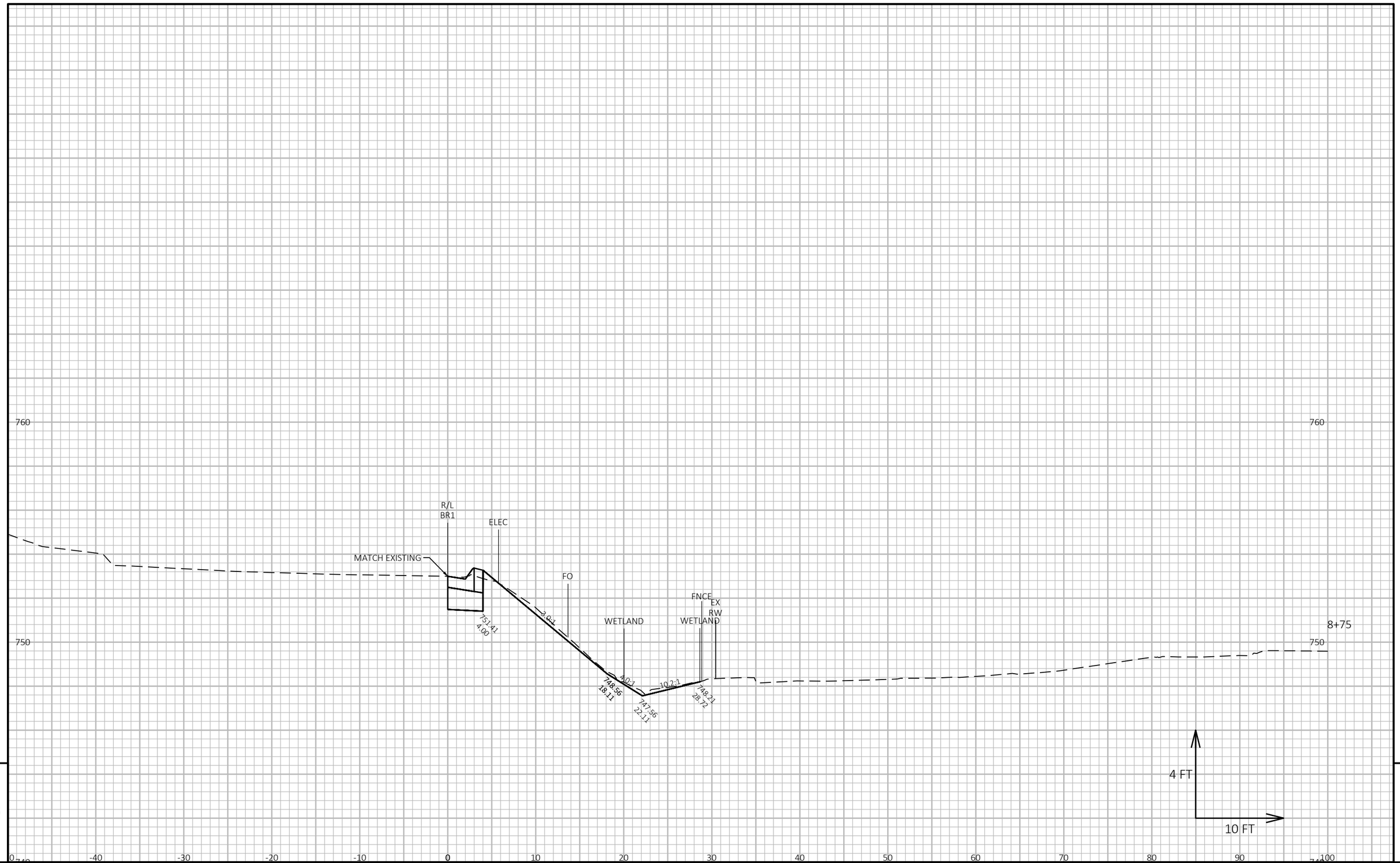
9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: BEAMGUARD REPLACEMENT - NW QUADRANT - B-40-356	SHEET PRE_180 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090201-XS_BURLEIGH SB STRUCTURE BG.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 9/29/2021 8:24 AM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET PRE_181 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 090201-XS

PLOT DATE : 9/29/2021 1:42 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

760

760

R/L
BR1

ELEC

MATCH EXISTING

FO

751.82
4.00

3.0:1

WETLAND

FNCE

EX
RW

WETLAND

9+00

750

750

4.0:1

4.0:1

747.92
31.04

746.80
25.63

747.80
21.63

4 FT

10 FT

9

9

0 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100

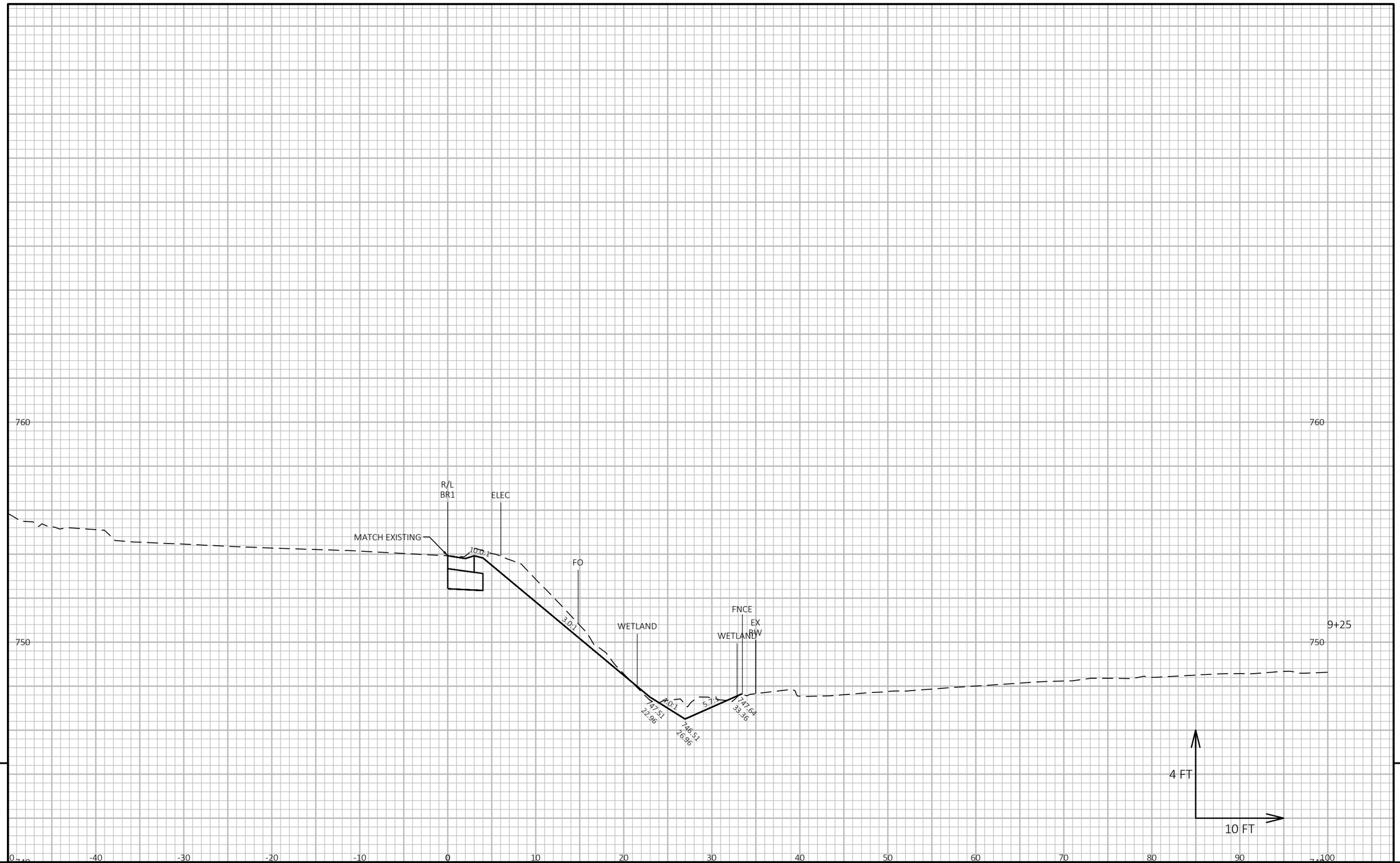
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_182

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 090202-XS

PLOT DATE : 9/29/2021 1:43 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

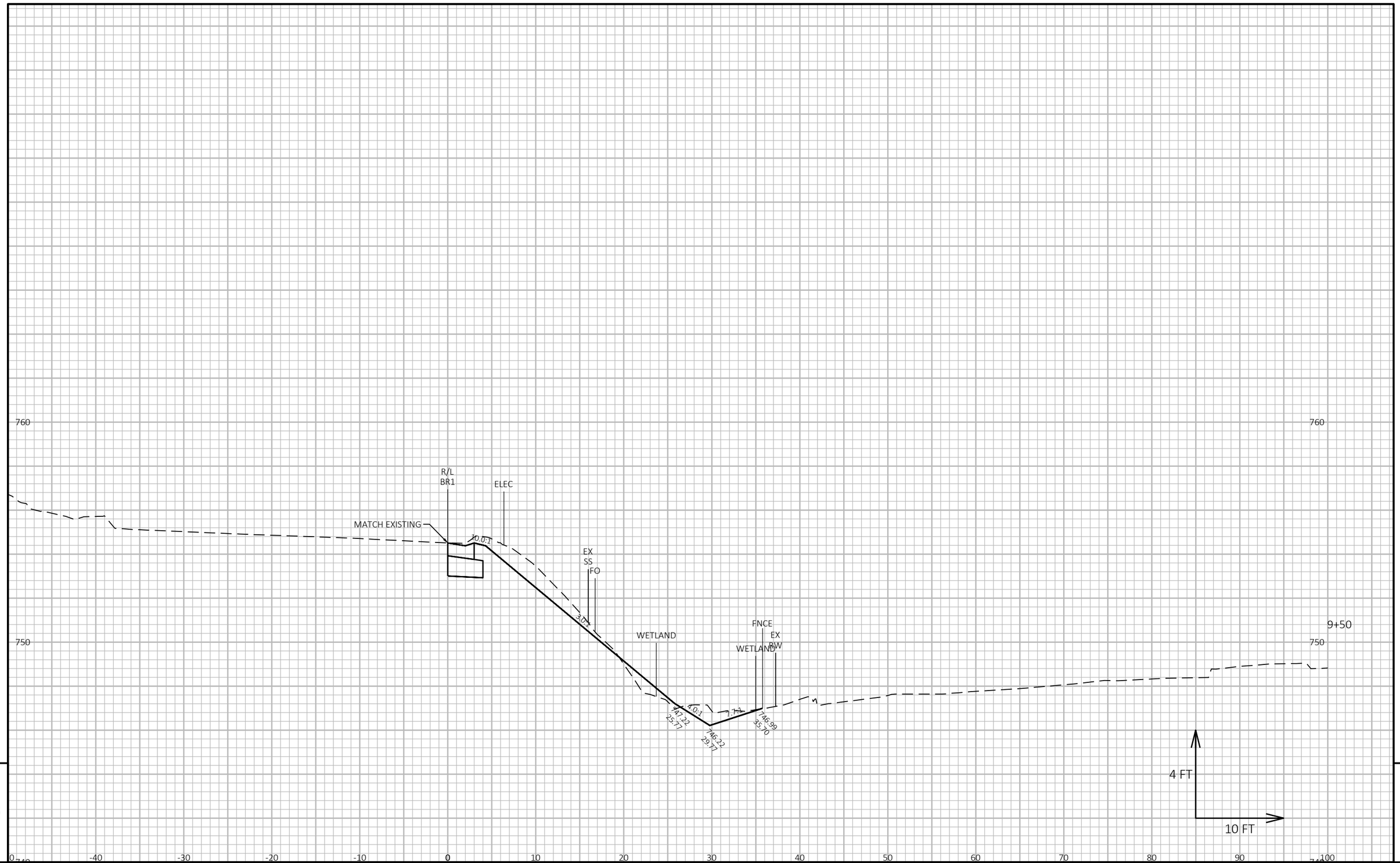
9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_183

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 090203-XS

PLOT DATE : 9/29/2021 1:43 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.



9

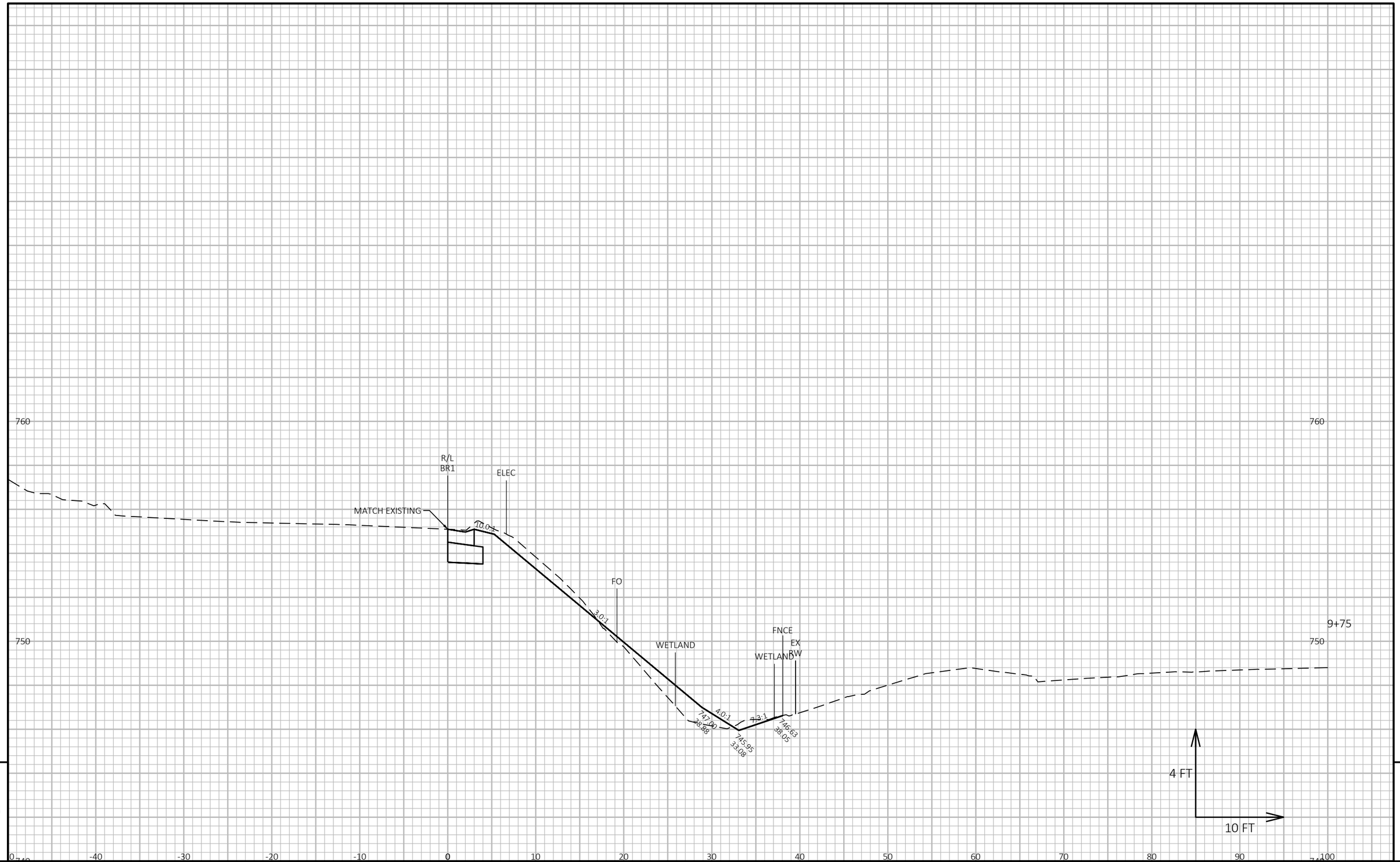
9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET PRE_184 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 090204-XS

PLOT DATE : 9/29/2021 1:43 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

9

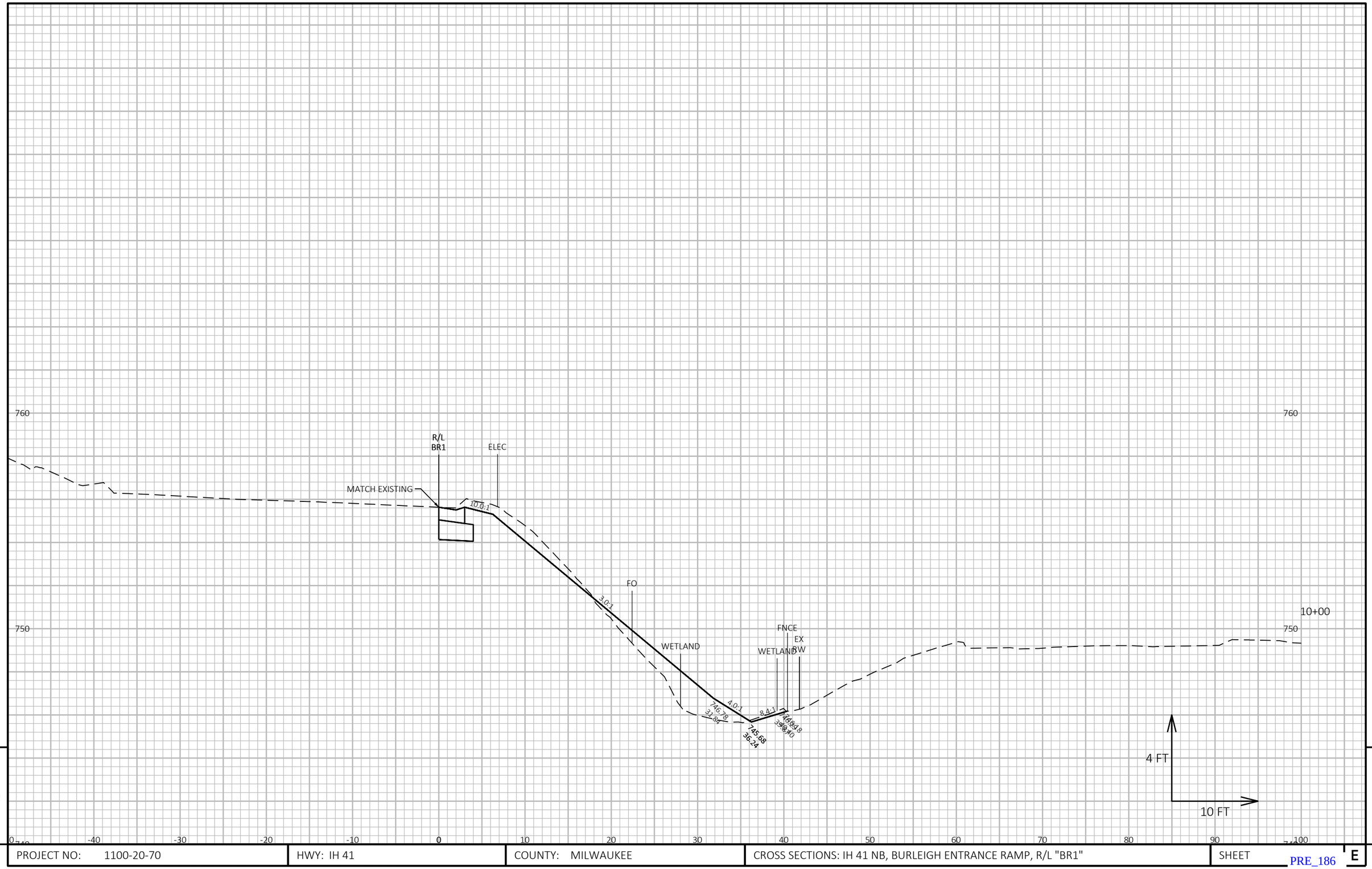
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_185

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 090205-XS

PLOT DATE : 9/29/2021 1:43 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_186

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 090206-XS

PLOT DATE : 9/29/2021 1:43 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

760

760

R/L
BR1

ELEC

MATCH EXISTING

4.0:1

3.0:1

FO

10+17

750

750

FNCE

EX
RW

WETLAND

WETLAND

4.0:1

2.0:1

746.54
34.16

745.87
41.45

745.42
38.58

4 FT

10 FT

9

9

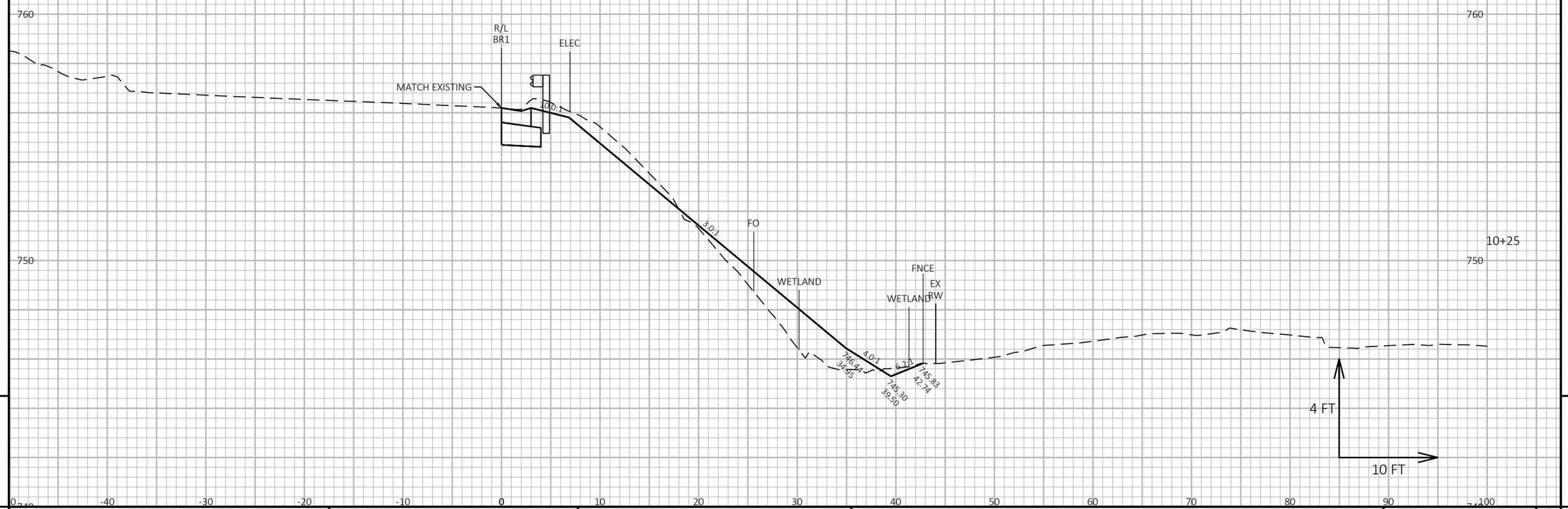
0 740 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 740

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET PRE_187 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 090207-XS

PLOT DATE : 9/29/2021 1:43 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 090208-XS

PLOT DATE : 9/29/2021 1:43 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

PRE_188

WISDOT/CADDS SHEET 49



9

9

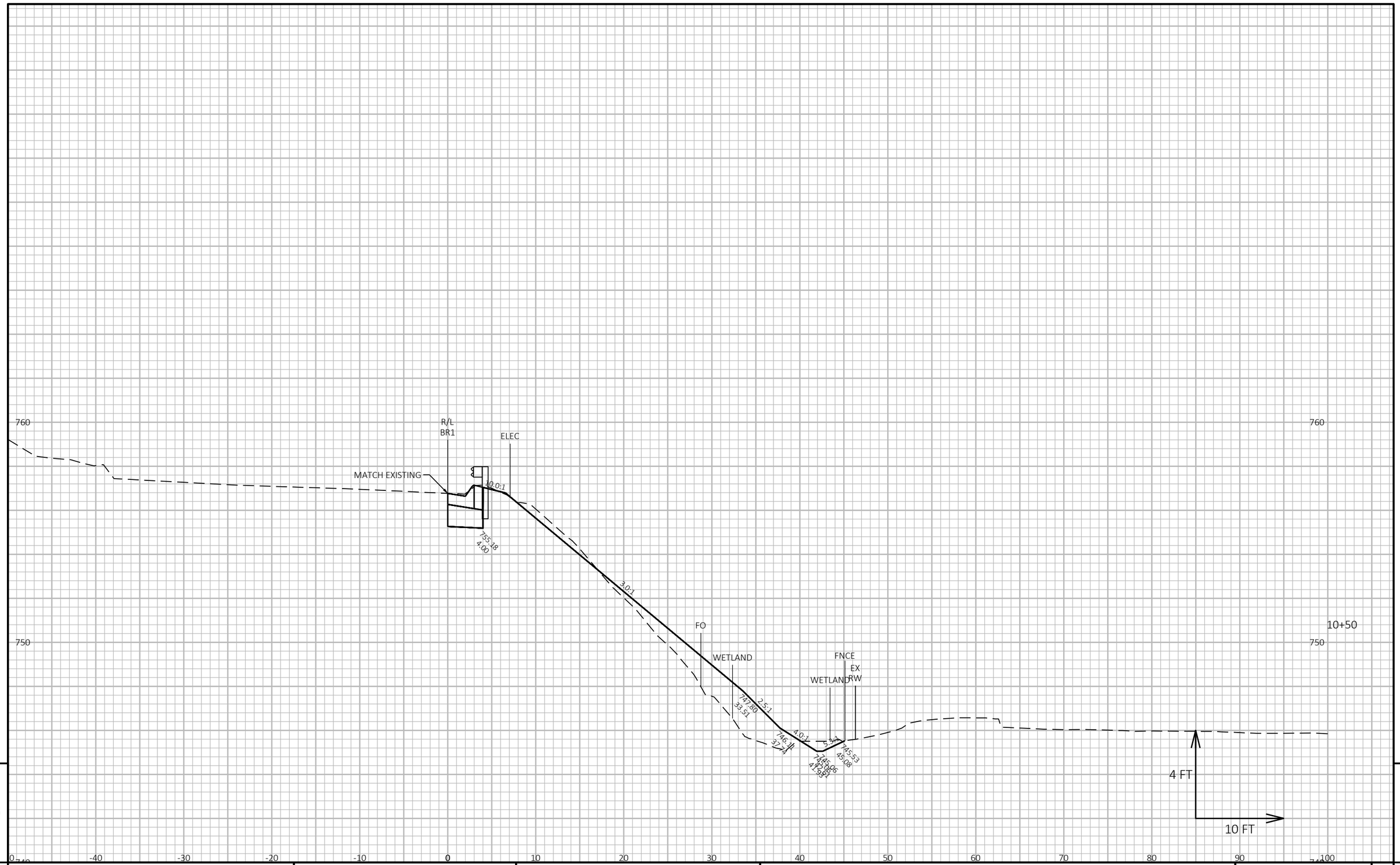
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_189

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 090209-XS

PLOT DATE : 9/29/2021 1:43 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

9

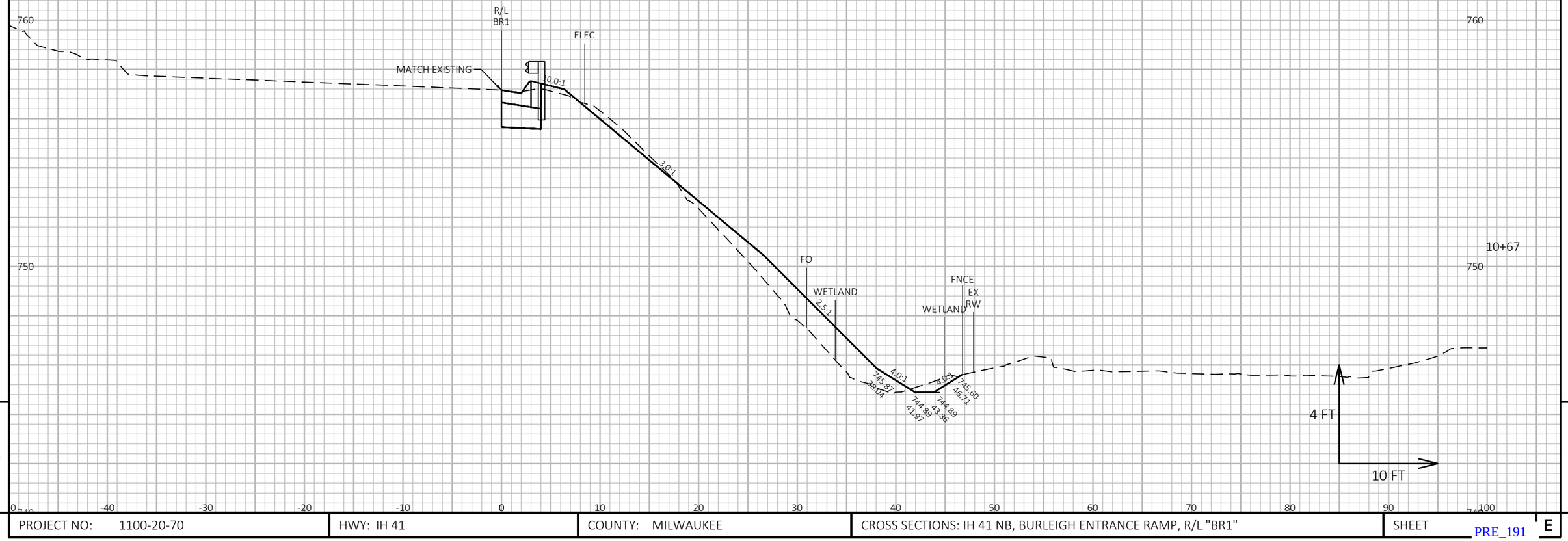
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_190

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902010-XS

PLOT DATE : 9/29/2021 1:43 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

9

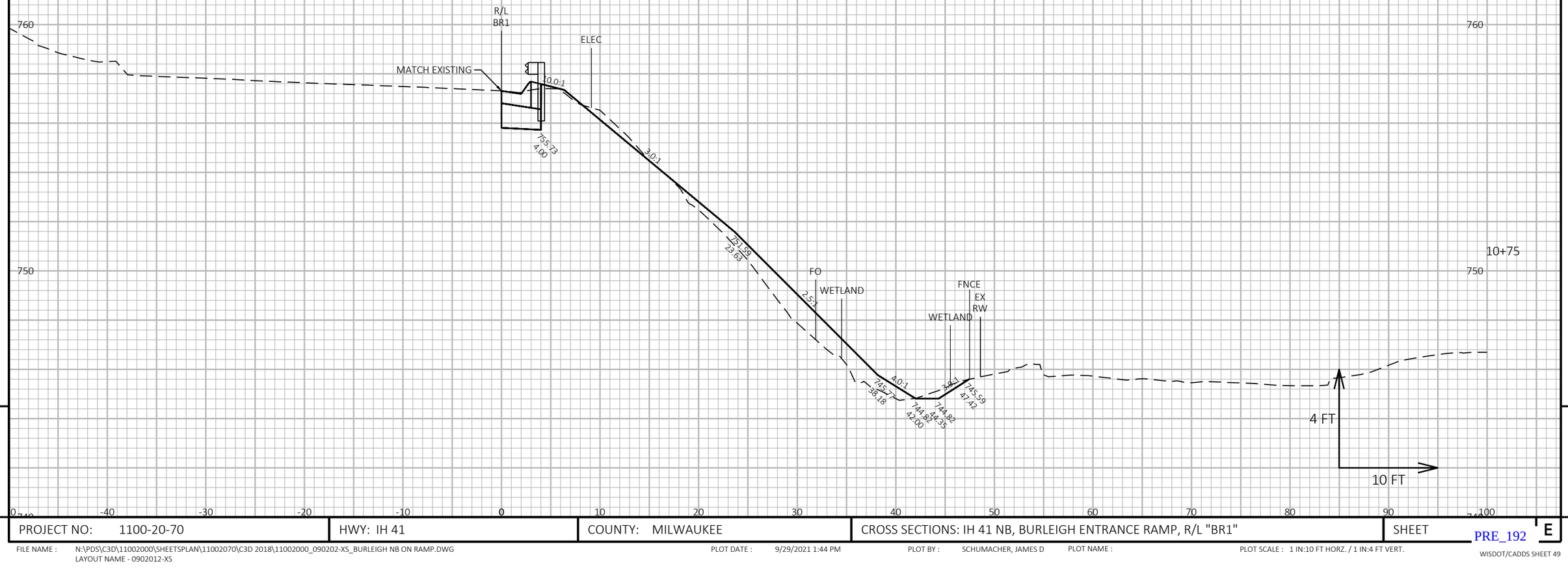
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_191

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902011-XS

PLOT DATE : 9/29/2021 1:43 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_192

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902012-XS

PLOT DATE : 9/29/2021 1:44 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

770

760

750

R/L
BR1

MATCH EXISTING

10.0:1

ELEC

756.26
4.00

3:1

5.73
24.84

FO

WETLAND

WETLAND

FNCE

EX
RW

11+00

4 FT

10 FT

-40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100

9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_193

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902013-XS

PLOT DATE : 9/29/2021 1:44 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET PRE_194 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902014-XS

PLOT DATE : 9/29/2021 1:44 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

770

760

750

R/L
BR1

MATCH EXISTING

10.0:1

ELEC

757.35
4.00

2.7:1

752.85
22.94

FO

WETLAND

WETLAND

FNCE
EX
RW

4 FT

10 FT

11+50

-40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100

9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_195

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902015-XS

PLOT DATE : 9/29/2021 1:44 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

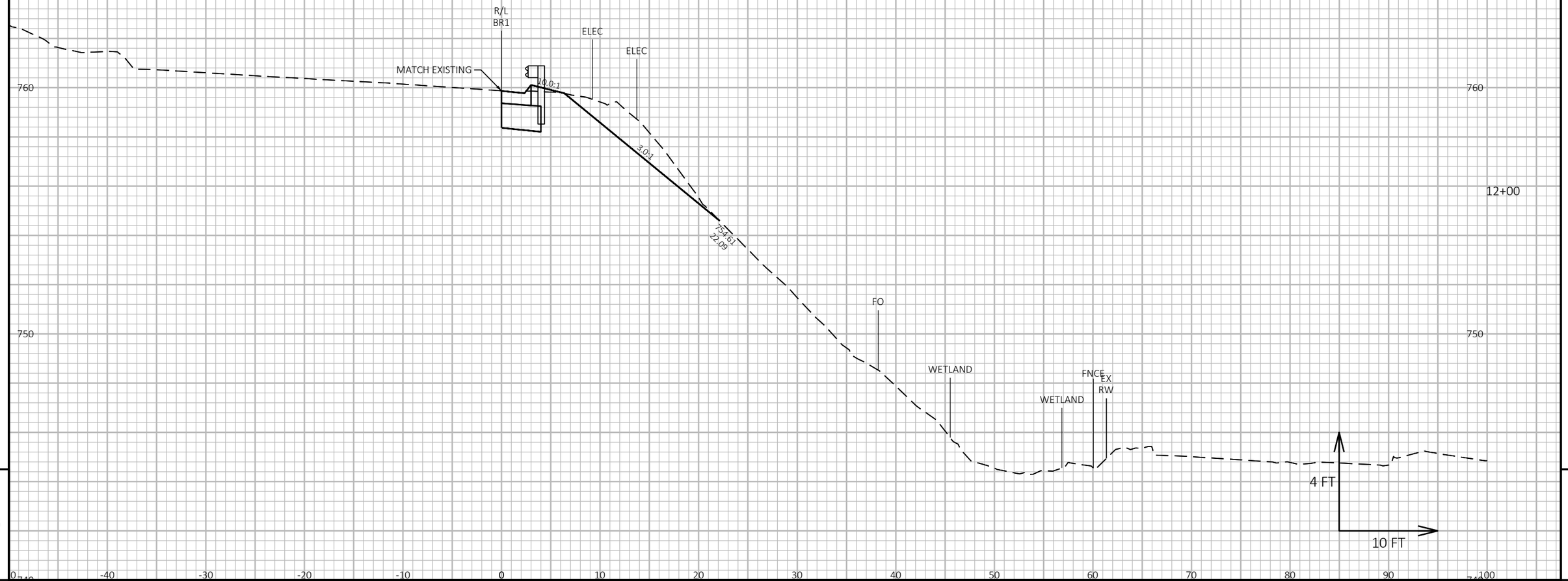
9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_196

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902016-XS

PLOT DATE : 9/29/2021 1:44 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.



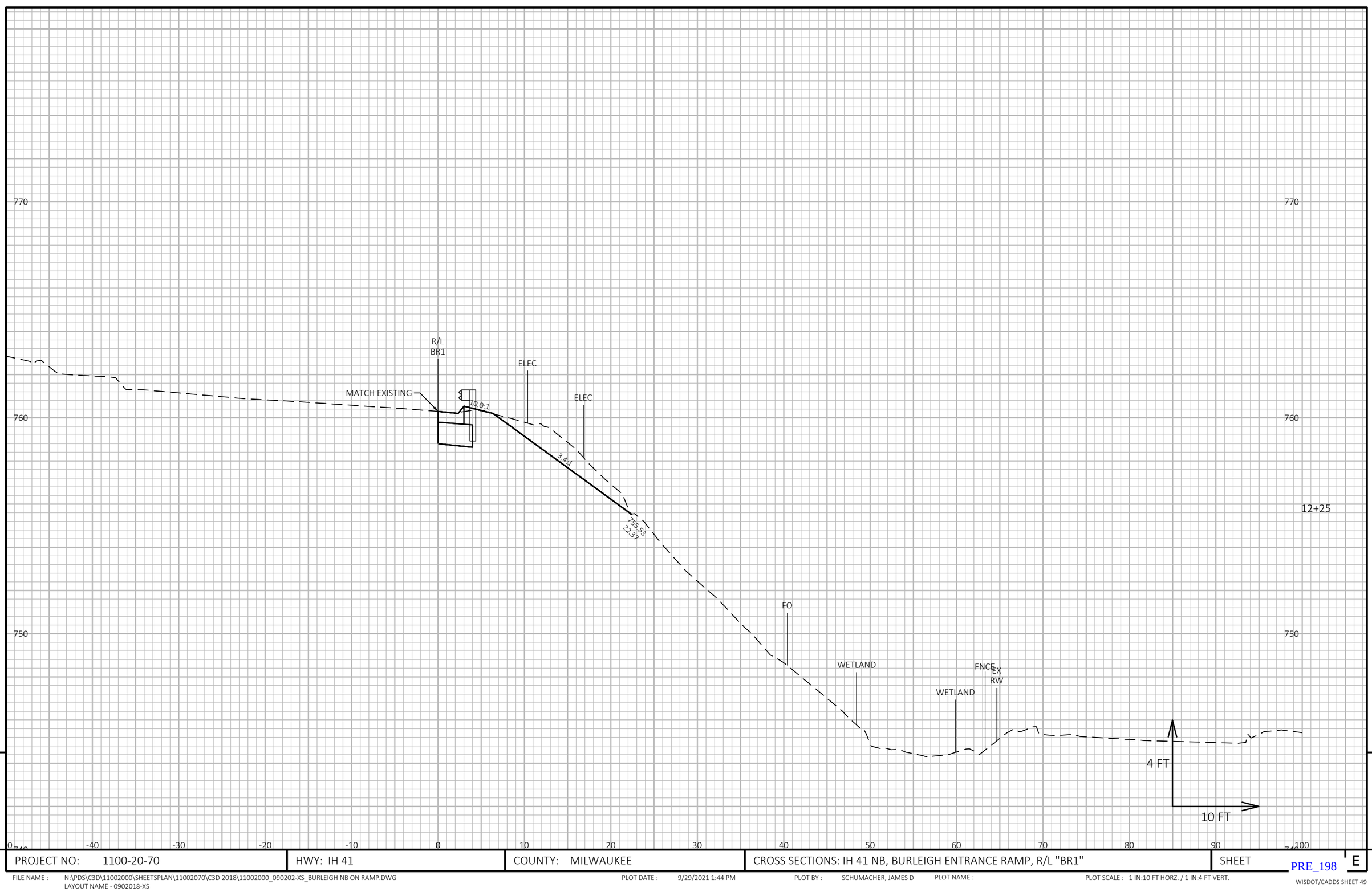
9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET PRE_197 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902017-XS

PLOT DATE : 9/29/2021 1:44 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

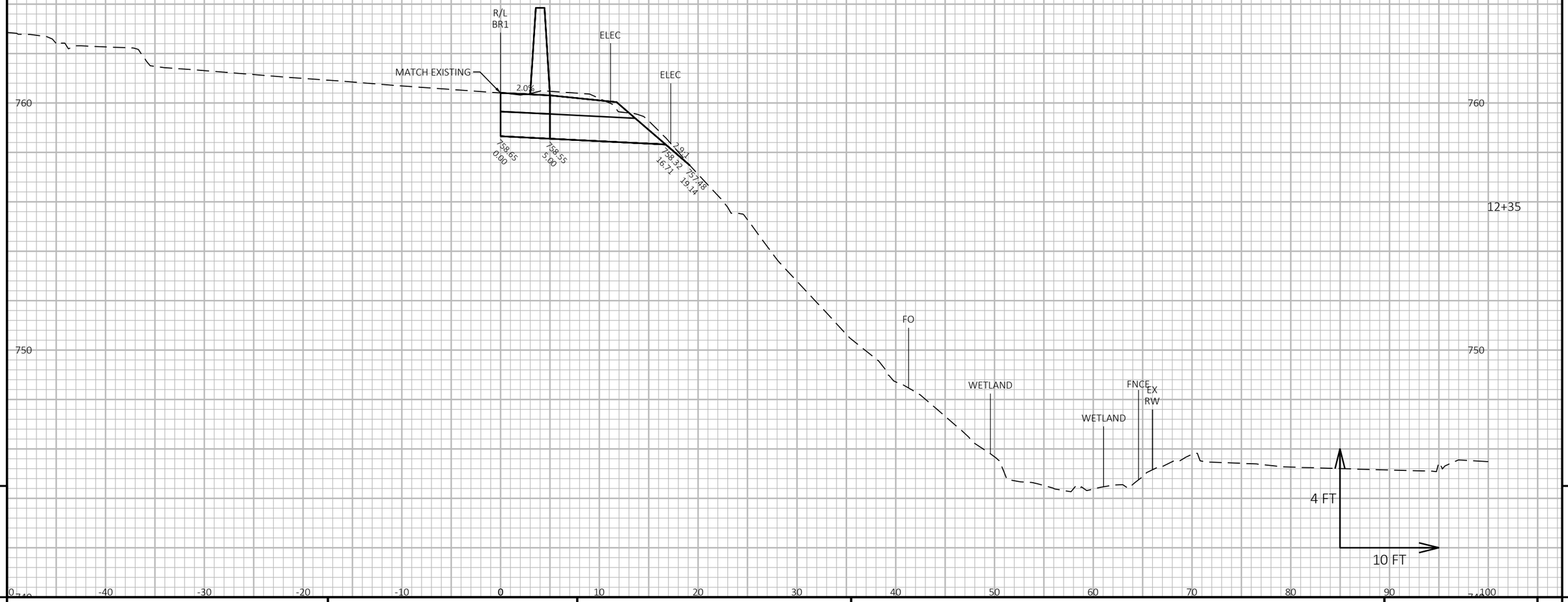
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_198

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902018-XS

PLOT DATE : 9/29/2021 1:44 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

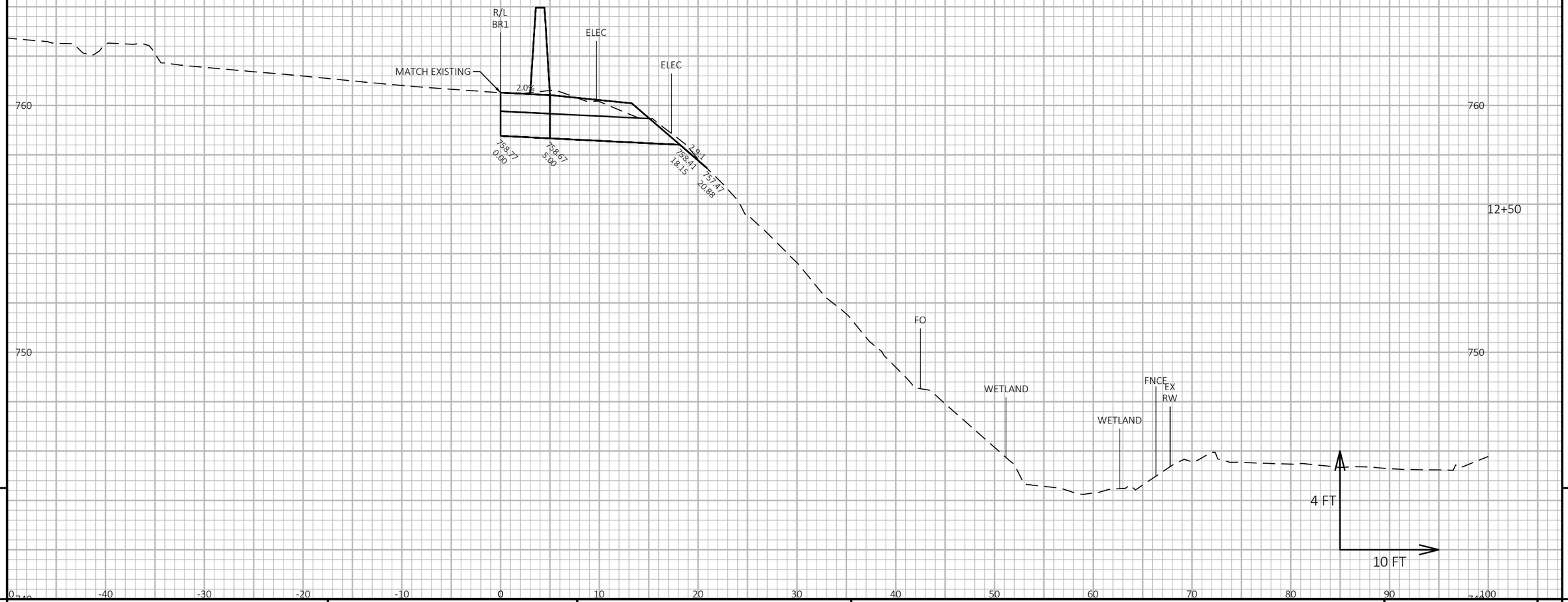
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902019-XS

PLOT DATE : 9/29/2021 1:44 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

PRE_199

WISDOT/CADDS SHEET 49



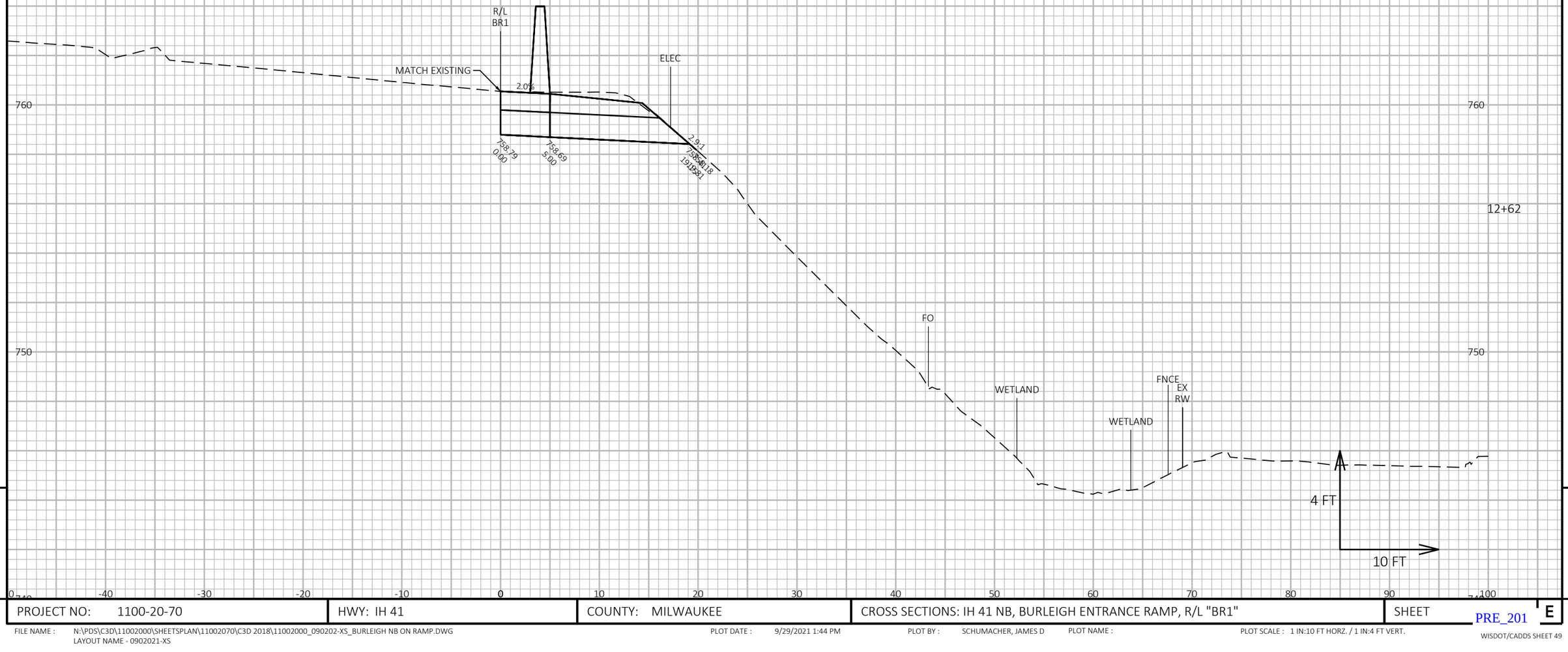
9

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

PRE_200

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902020-XS

PLOT DATE : 9/29/2021 1:44 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.



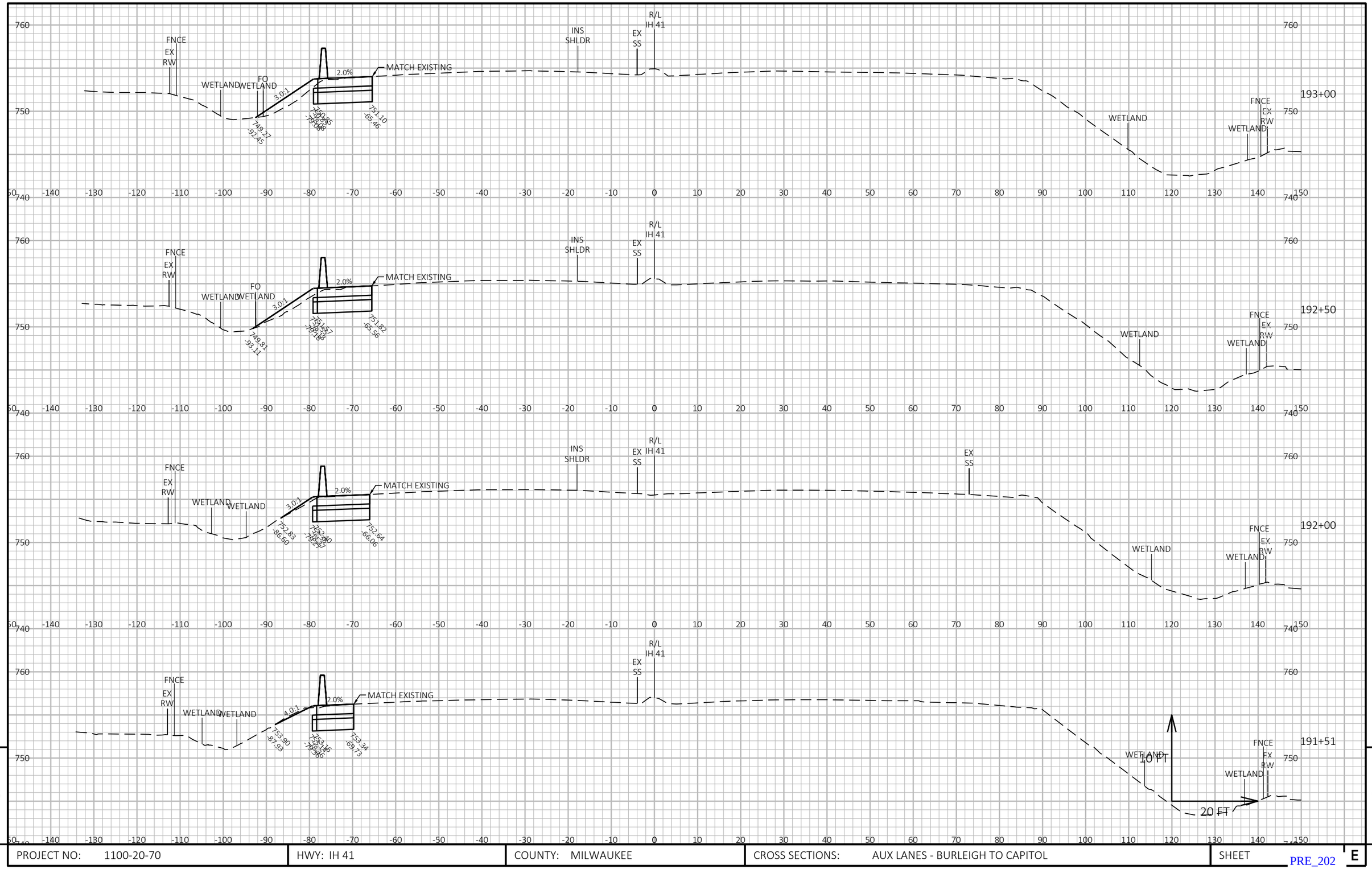
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 41 NB, BURLEIGH ENTRANCE RAMP, R/L "BR1"	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090202-XS_BURLEIGH NB ON RAMP.DWG
LAYOUT NAME - 0902021-XS

PLOT DATE : 9/29/2021 1:44 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

PRE_201

WISDOT/CADDS SHEET 49



9 9

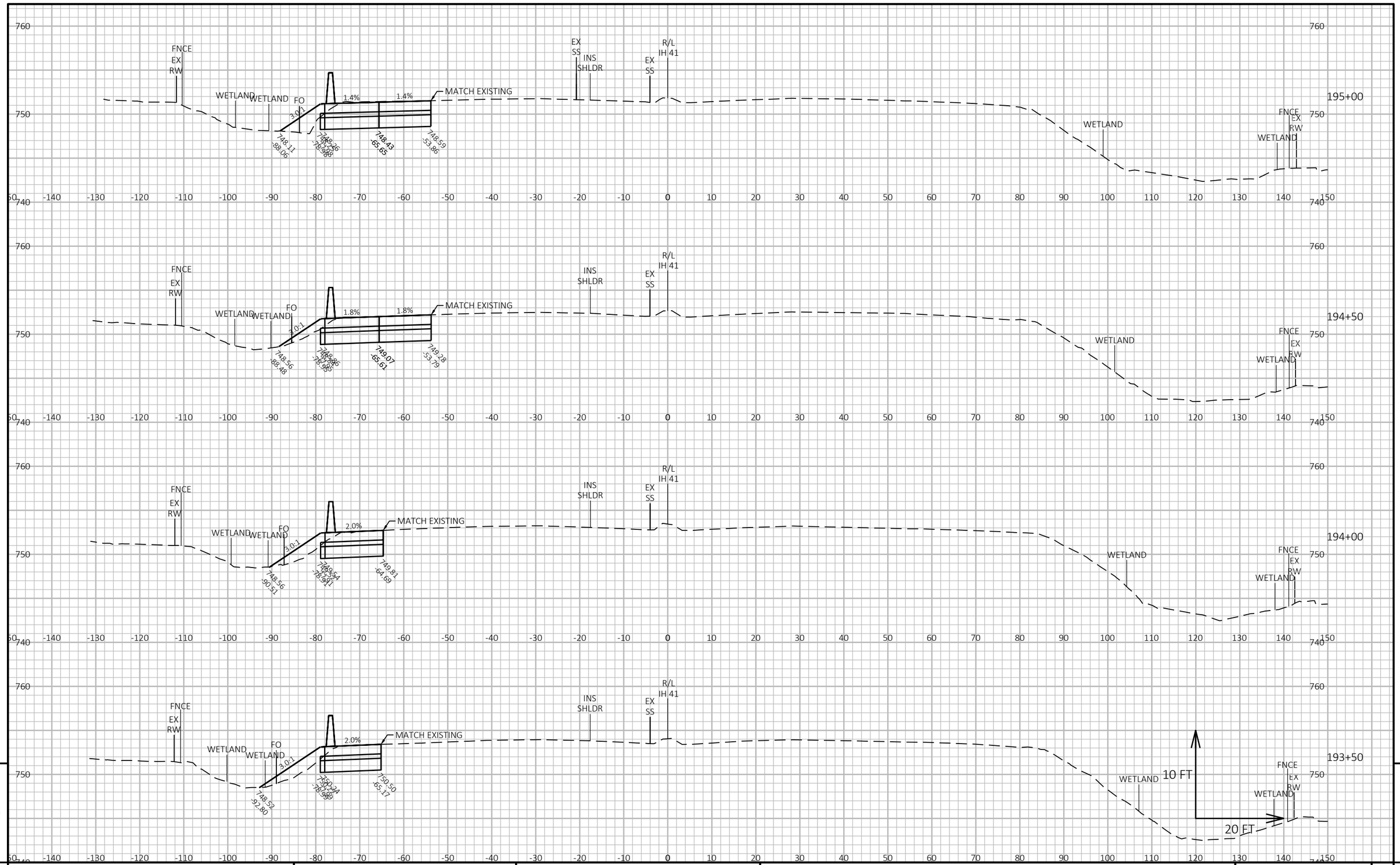
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_202

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 9/28/2021 12:09 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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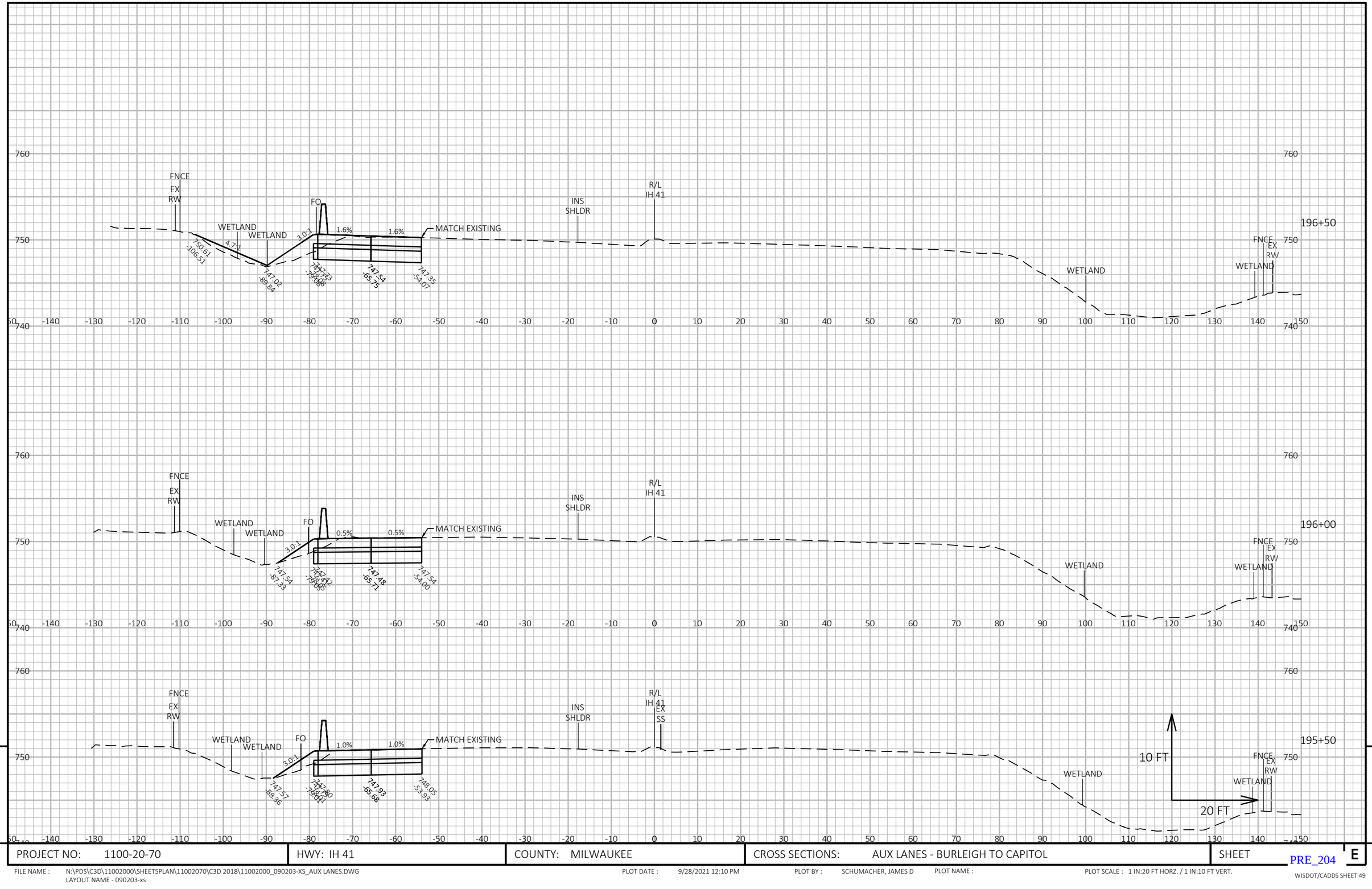
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_203

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 9/28/2021 12:09 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_204

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 090203-xs

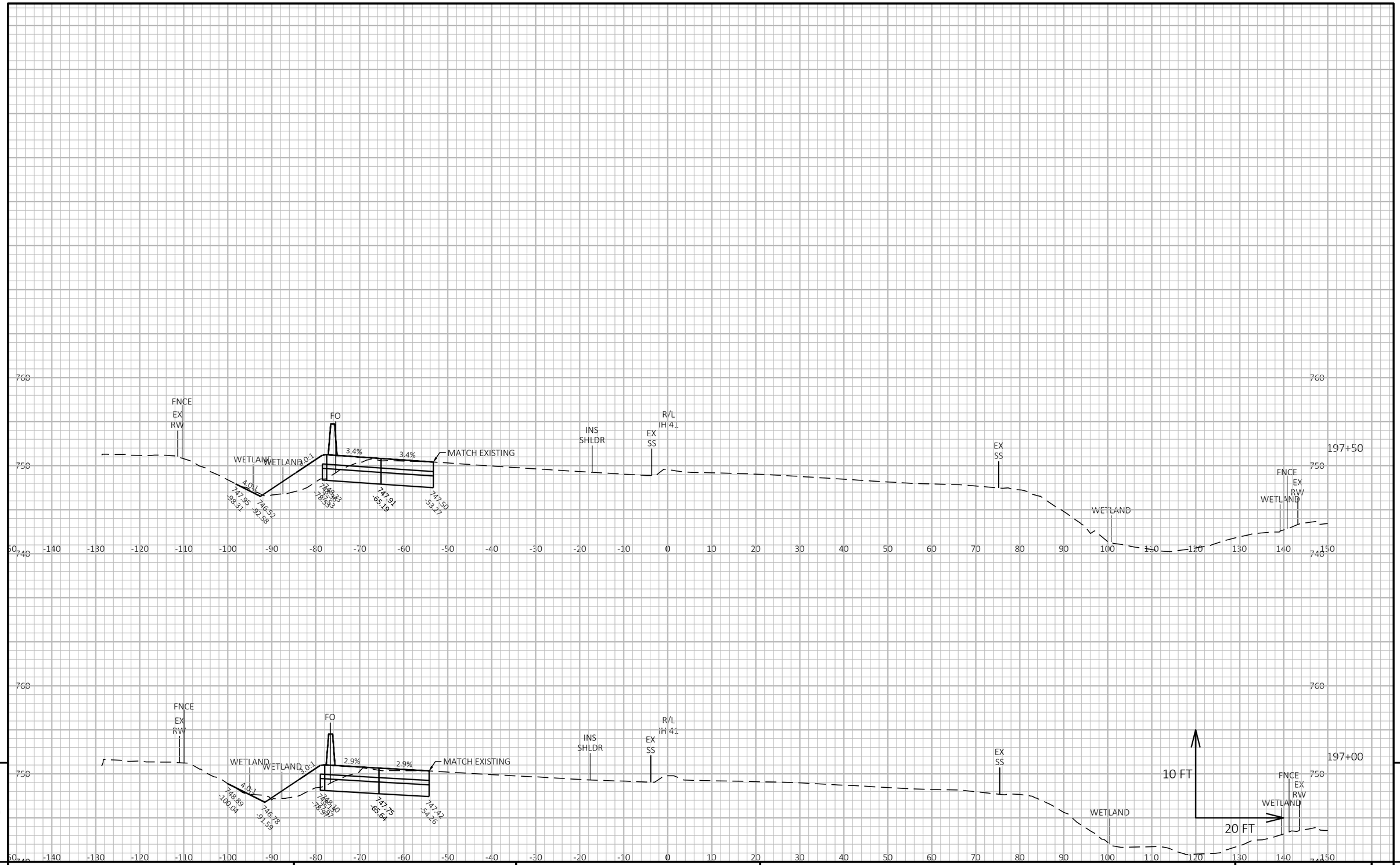
PLOT DATE : 9/28/2021 12:10 PM

PLOT BY : SCHUMACHER, JAMES D

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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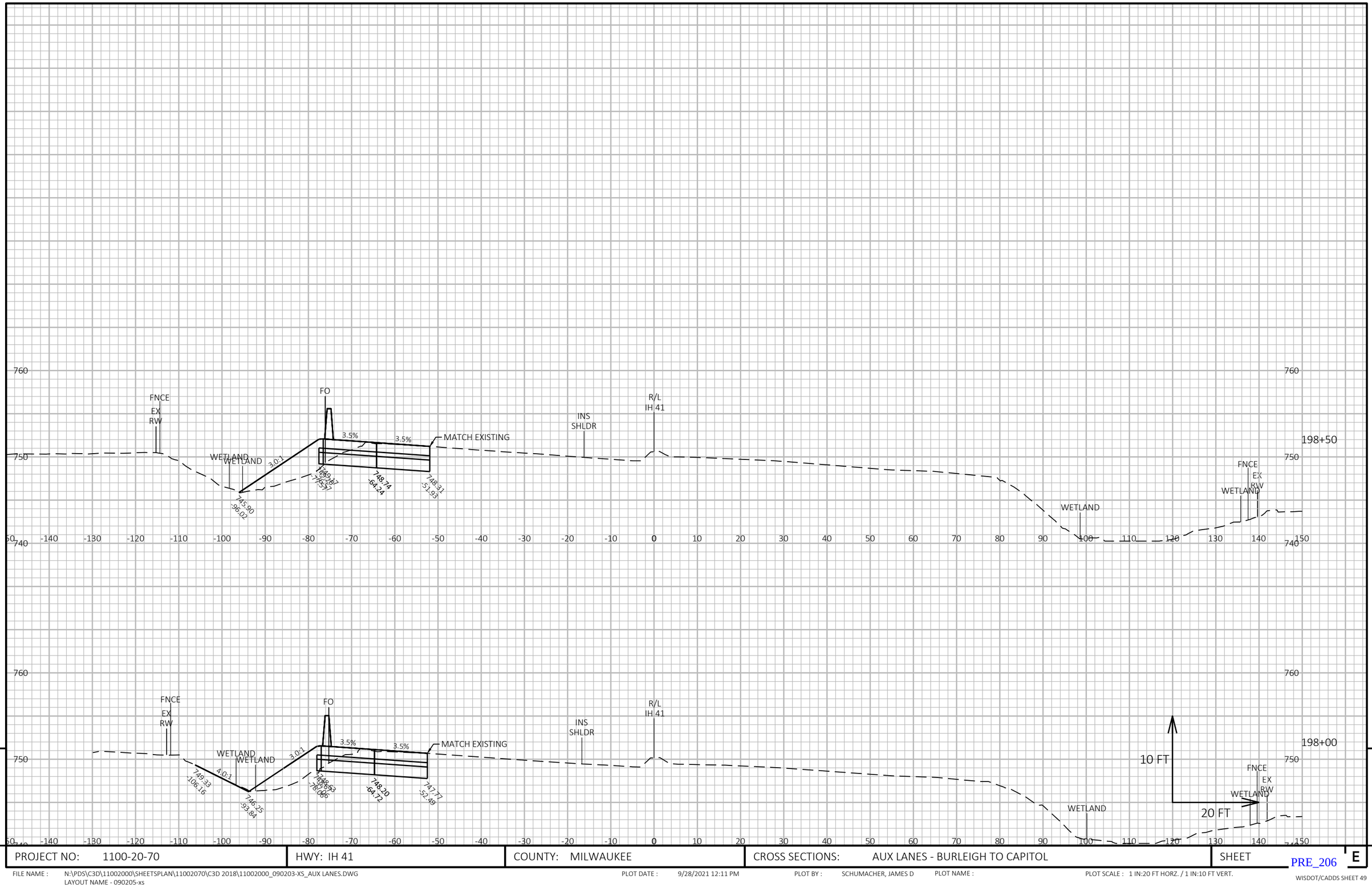
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_205

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 9/28/2021 12:10 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



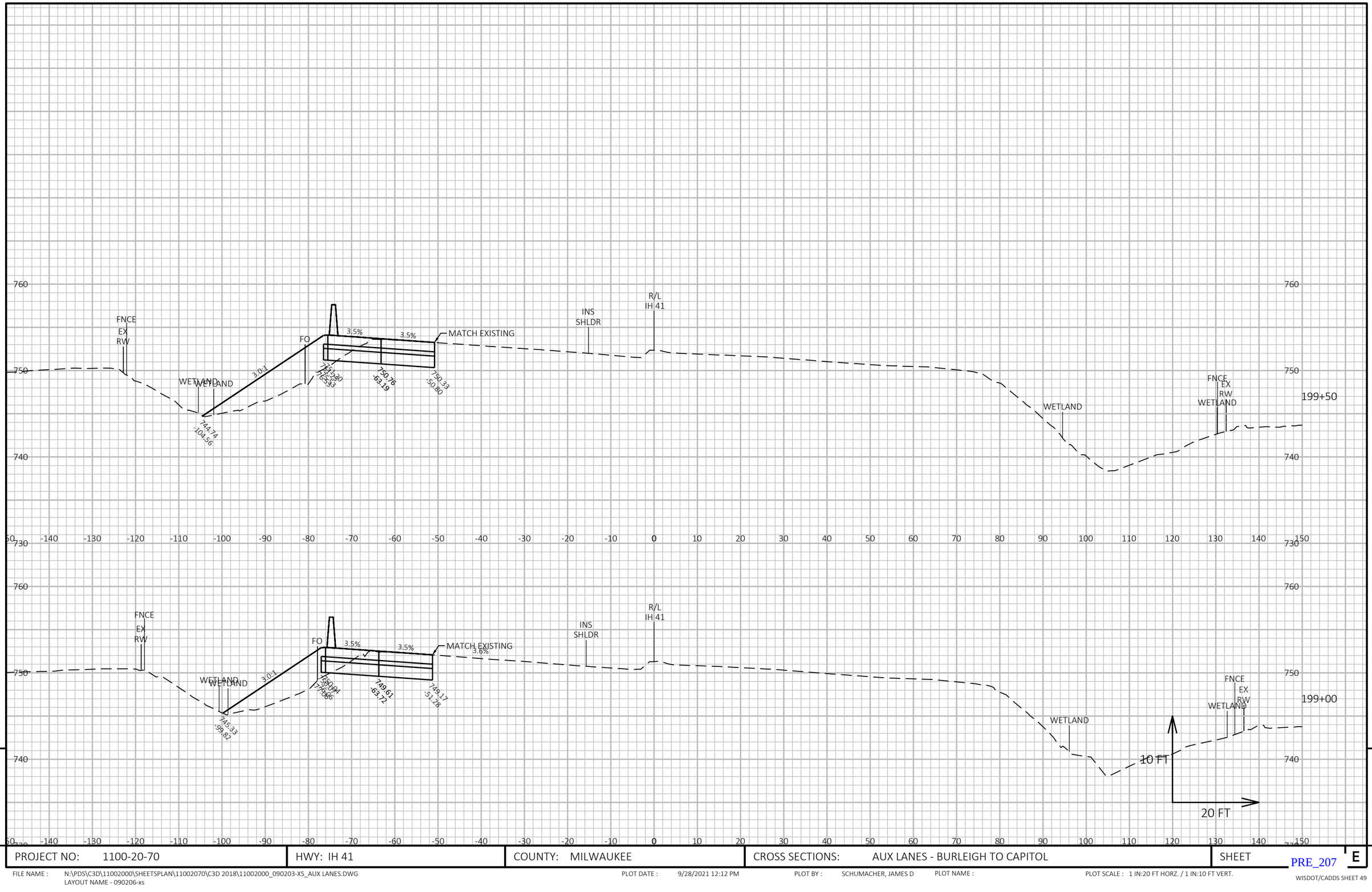
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_206

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 090205-xs

PLOT DATE : 9/28/2021 12:11 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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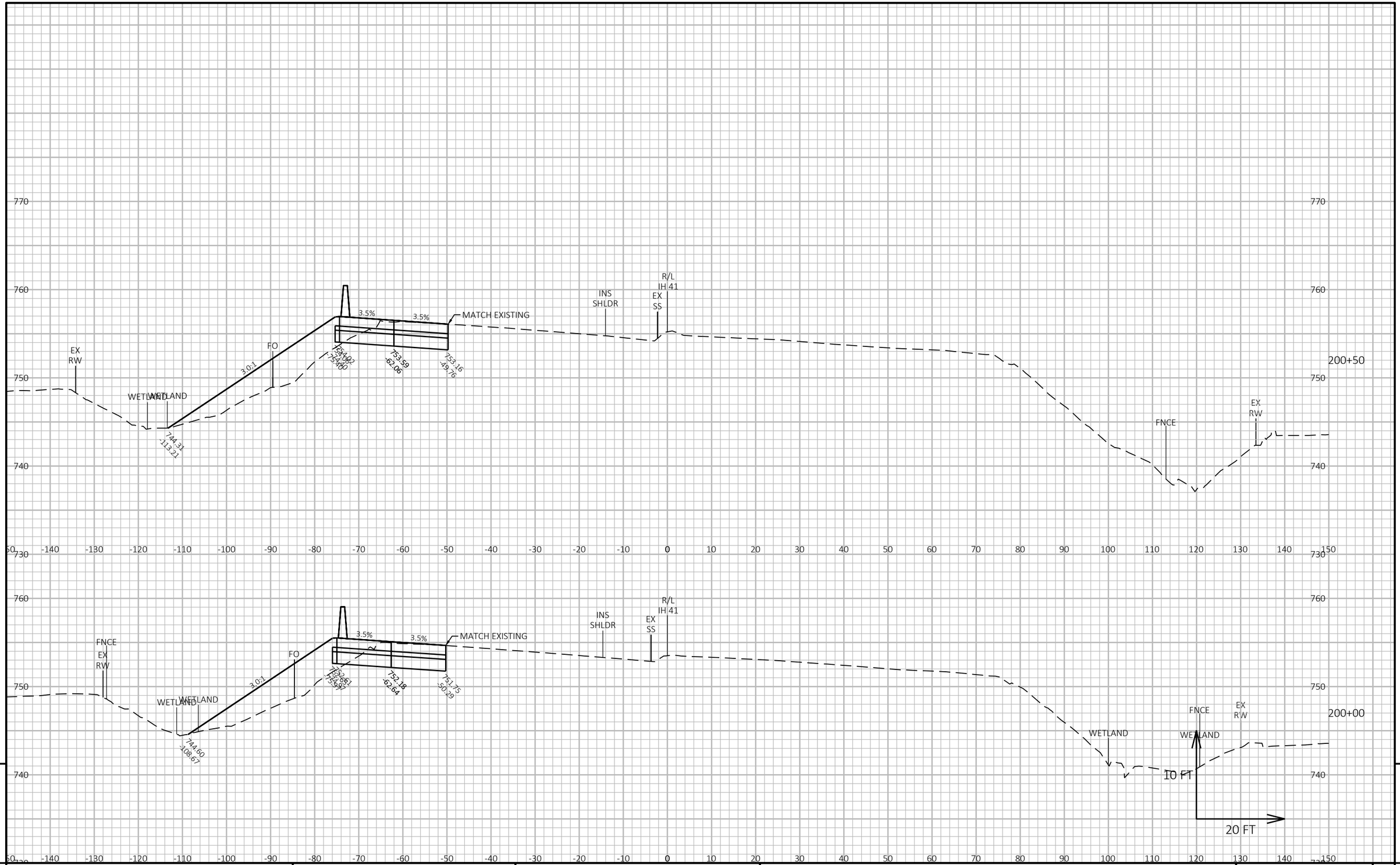
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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_207

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 090206-xs

PLOT DATE : 9/28/2021 12:12 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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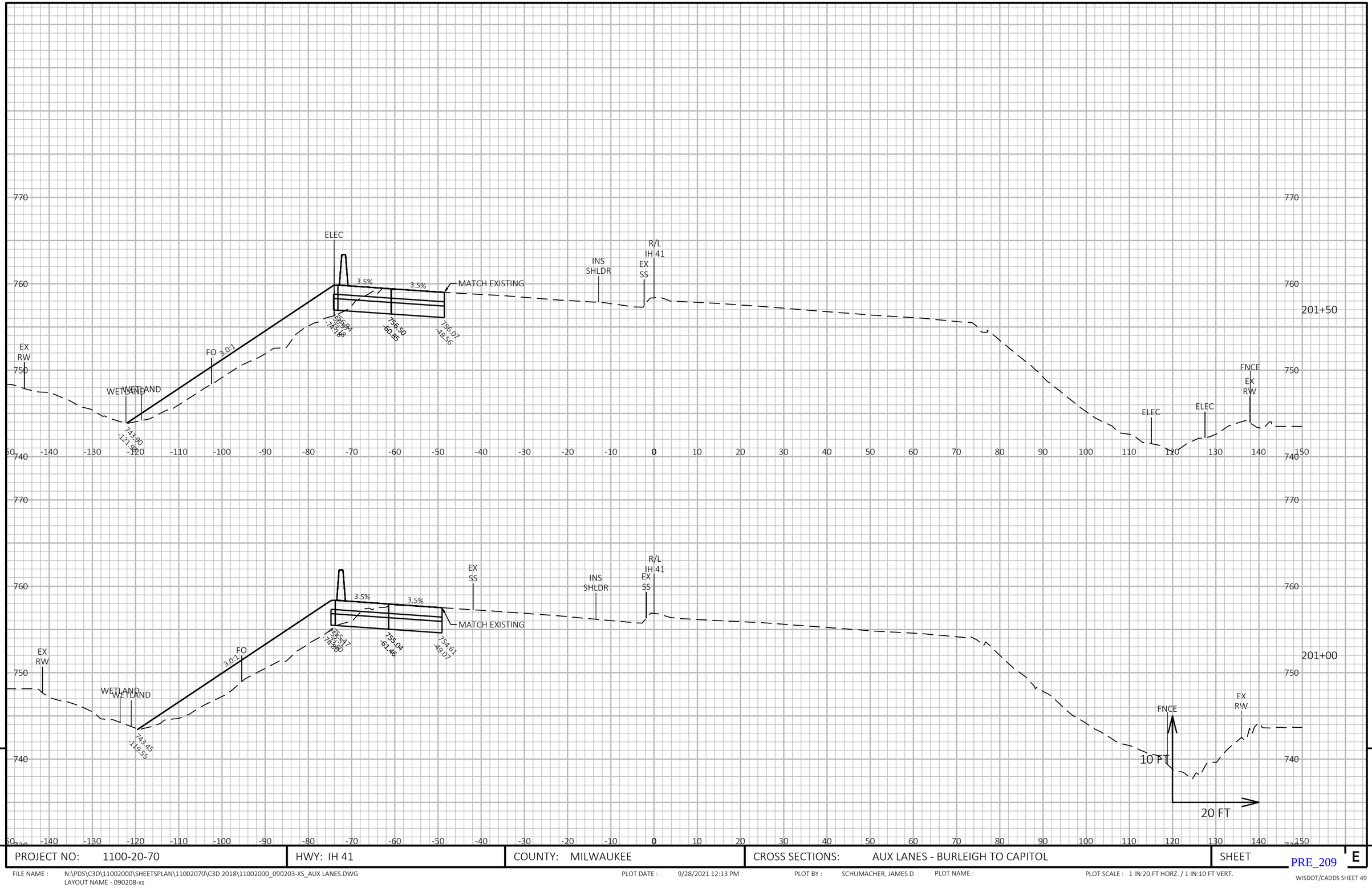
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_208

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 090207-xs

PLOT DATE : 9/28/2021 12:13 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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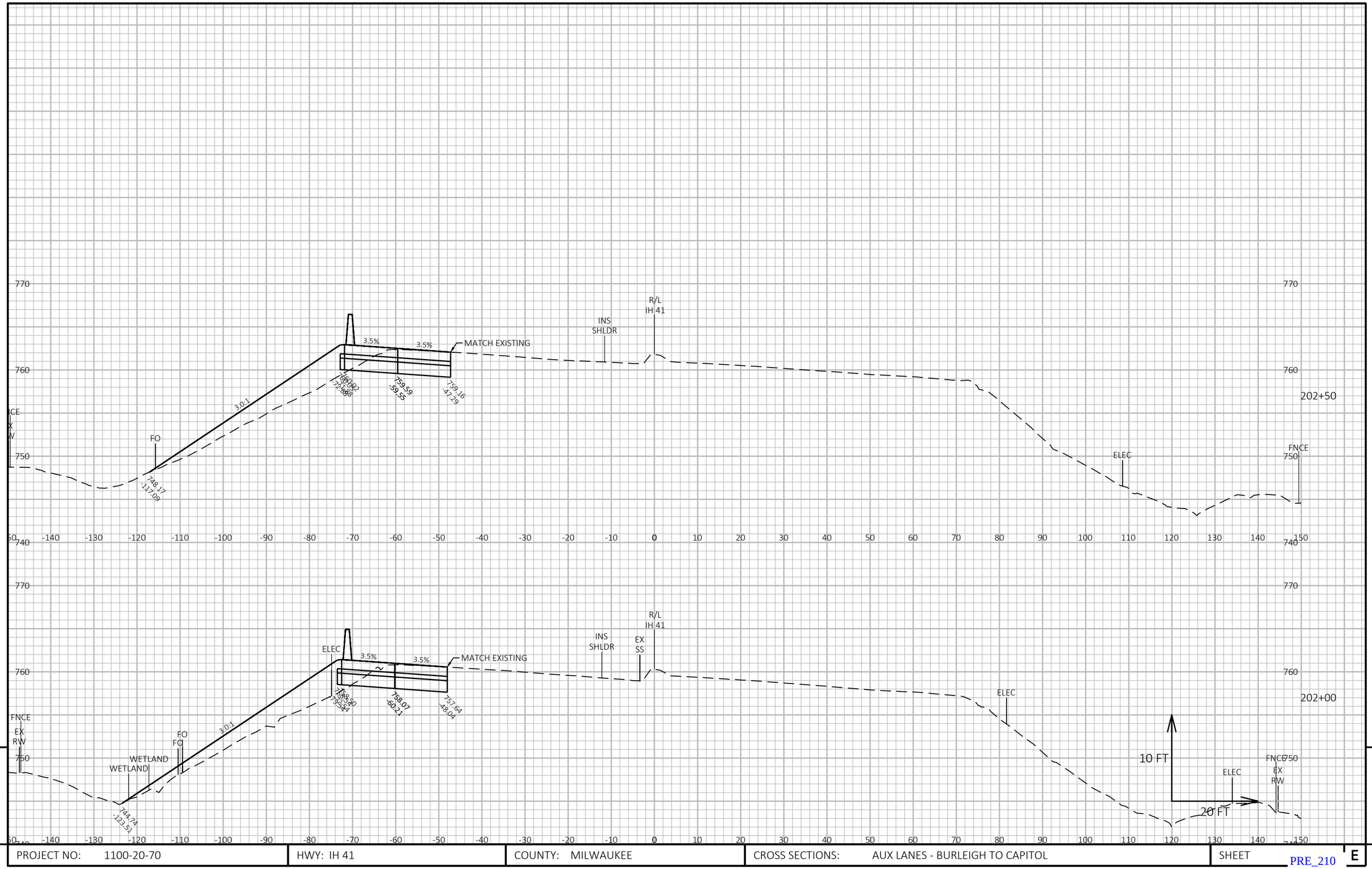
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 090208-xs

PLOT DATE : 9/28/2021 12:13 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_209

WISDOT/CADDS SHEET 49



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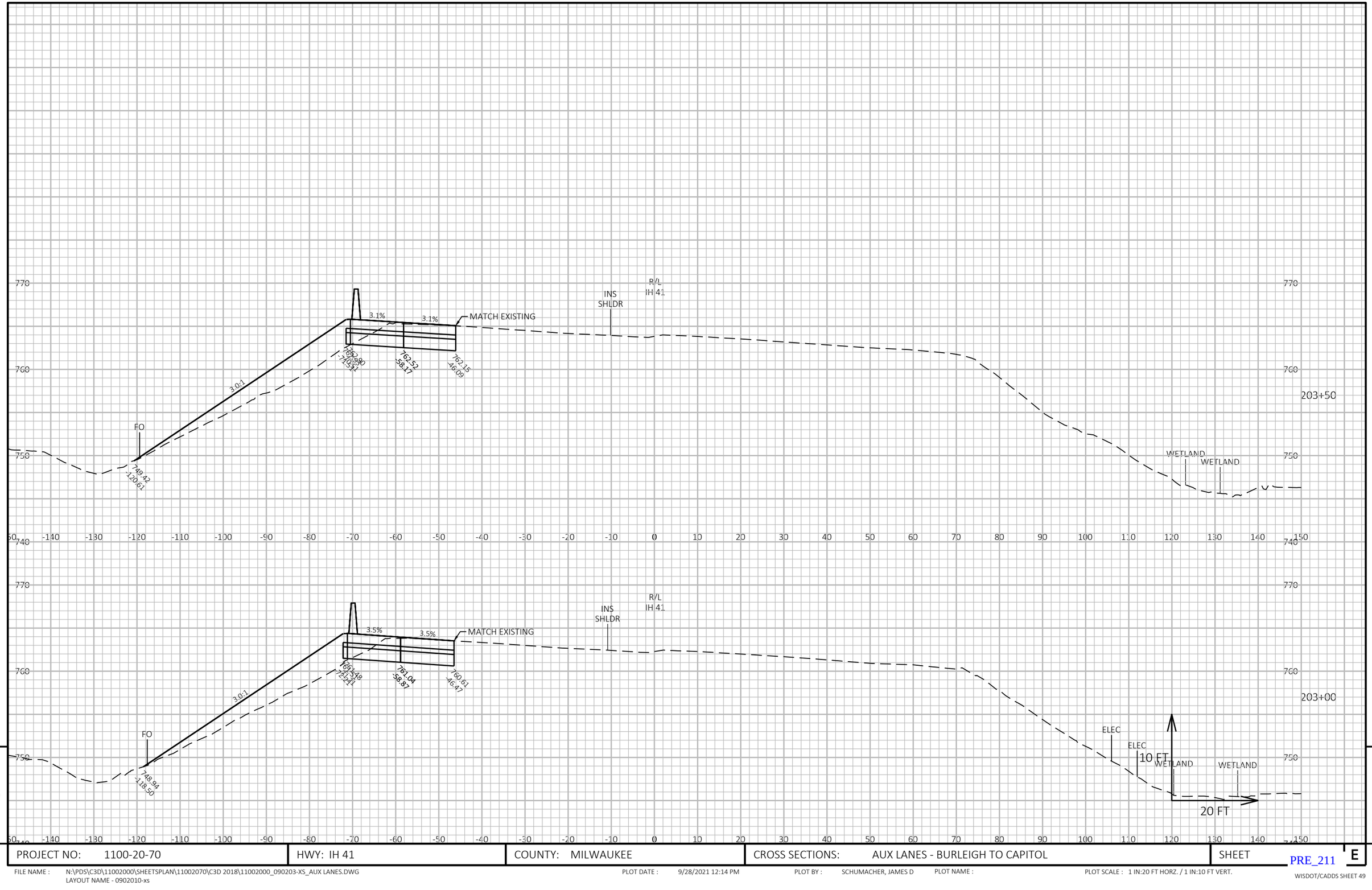
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_210

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 090209-xs

PLOT DATE : 9/28/2021 12:14 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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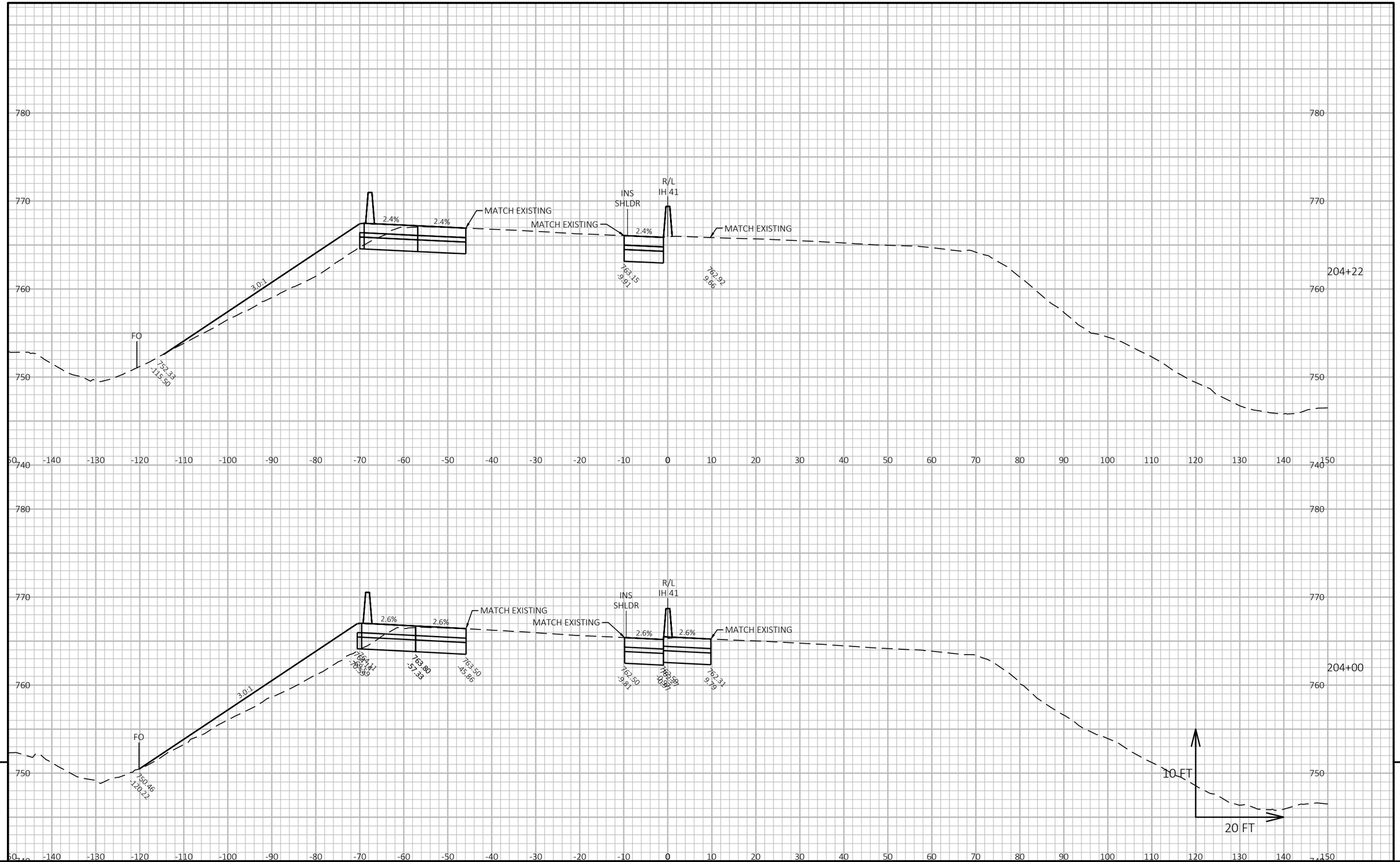
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_211

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902010-xs

PLOT DATE : 9/28/2021 12:14 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



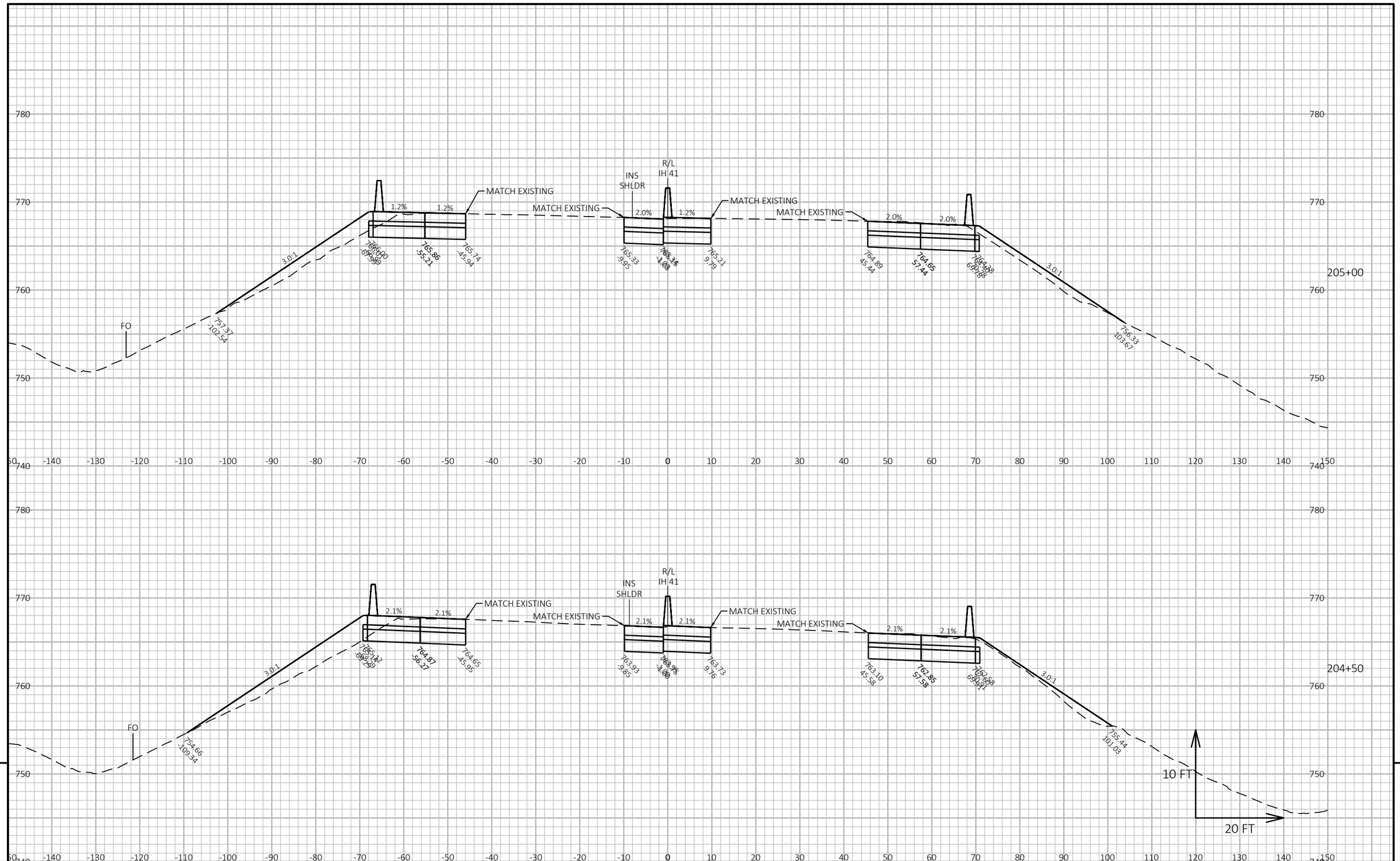
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_212

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902011-xs

PLOT DATE : 9/28/2021 12:15 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

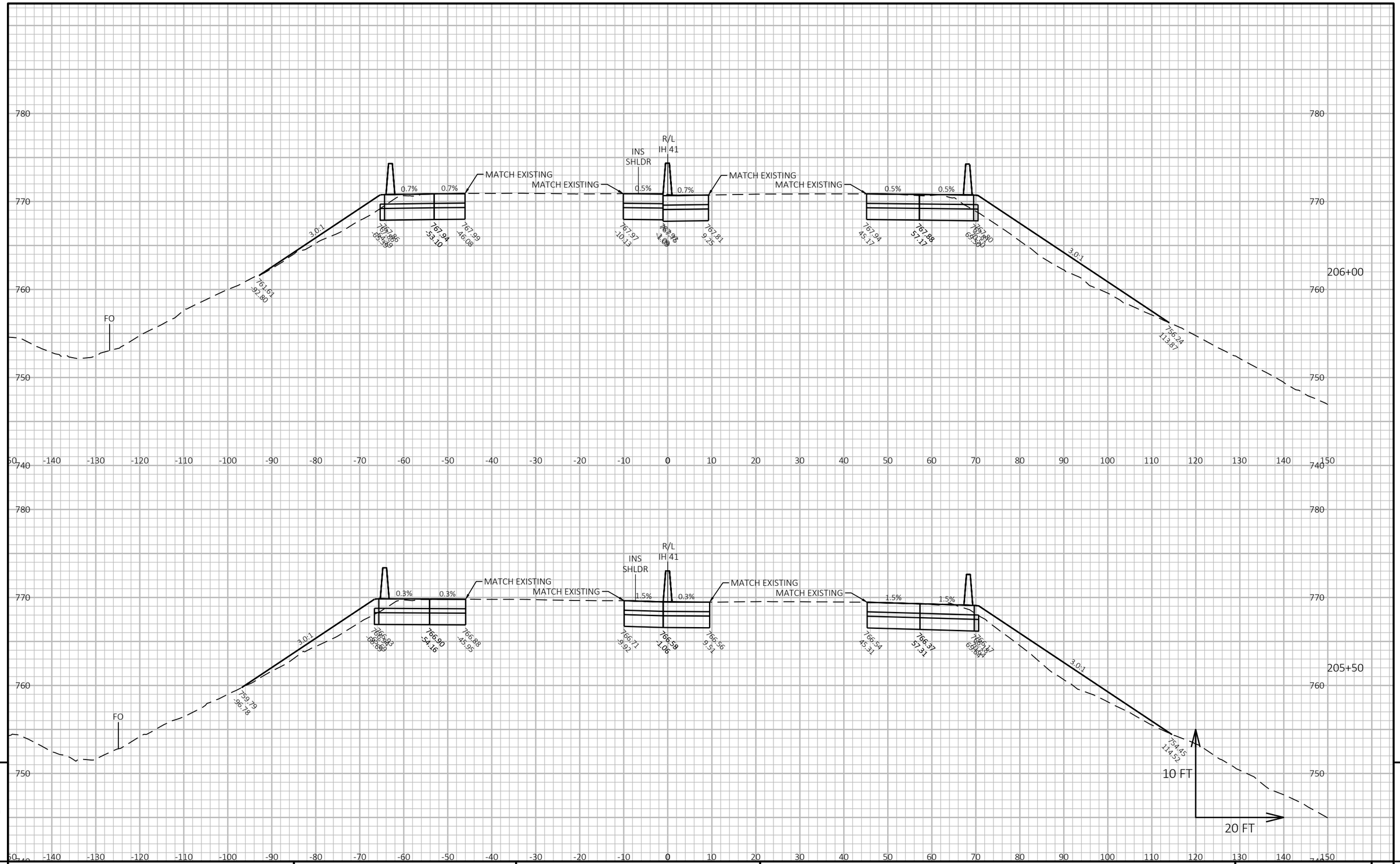


PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_213

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902012-xs

PLOT DATE : 9/28/2021 12:15 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

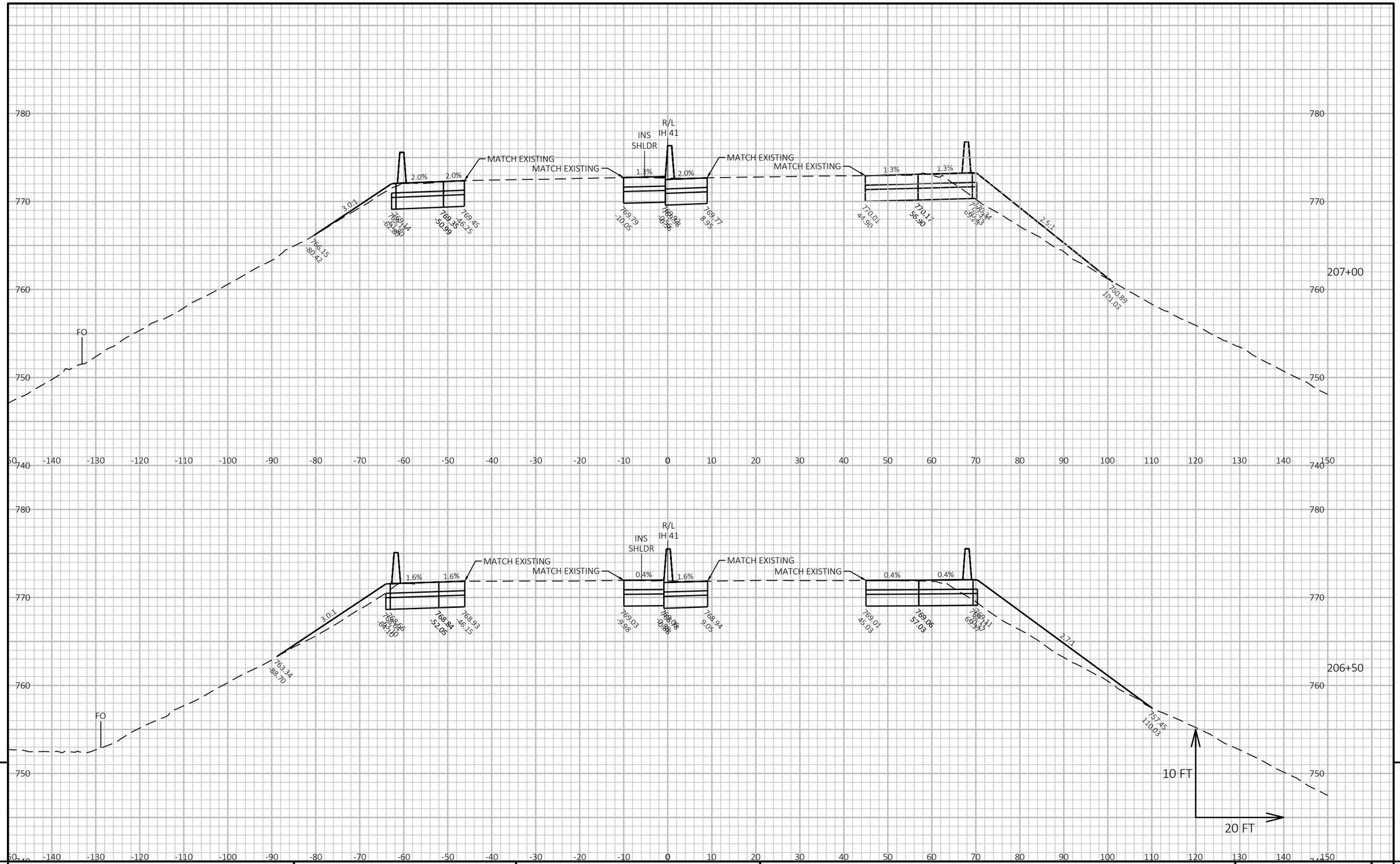


PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET PRE_214 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902013-xs

PLOT DATE : 9/28/2021 12:16 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

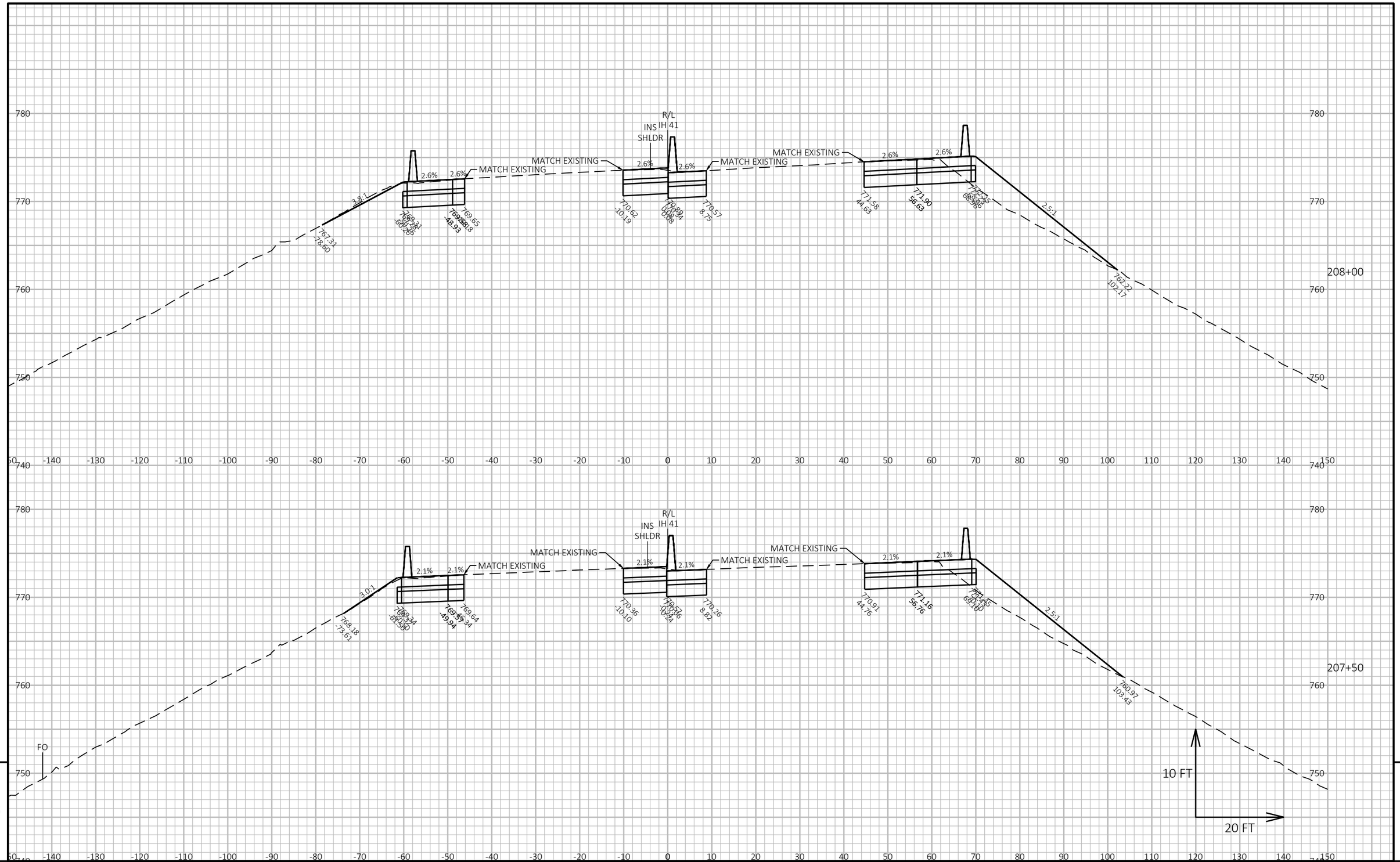


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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET PRE_215 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902014-xs

PLOT DATE : 9/28/2021 12:16 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



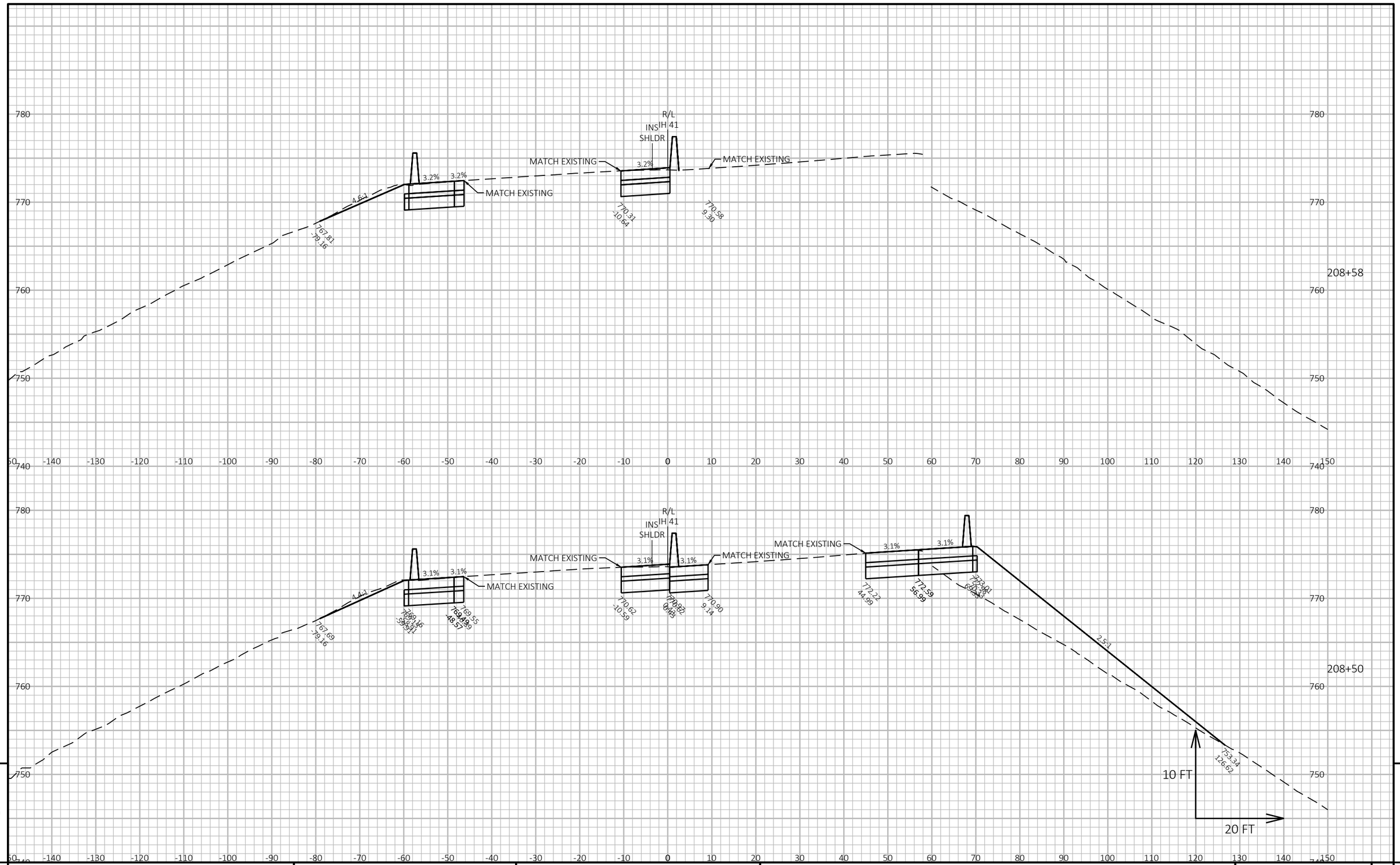
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_216

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902015-xs

PLOT DATE : 9/28/2021 12:17 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

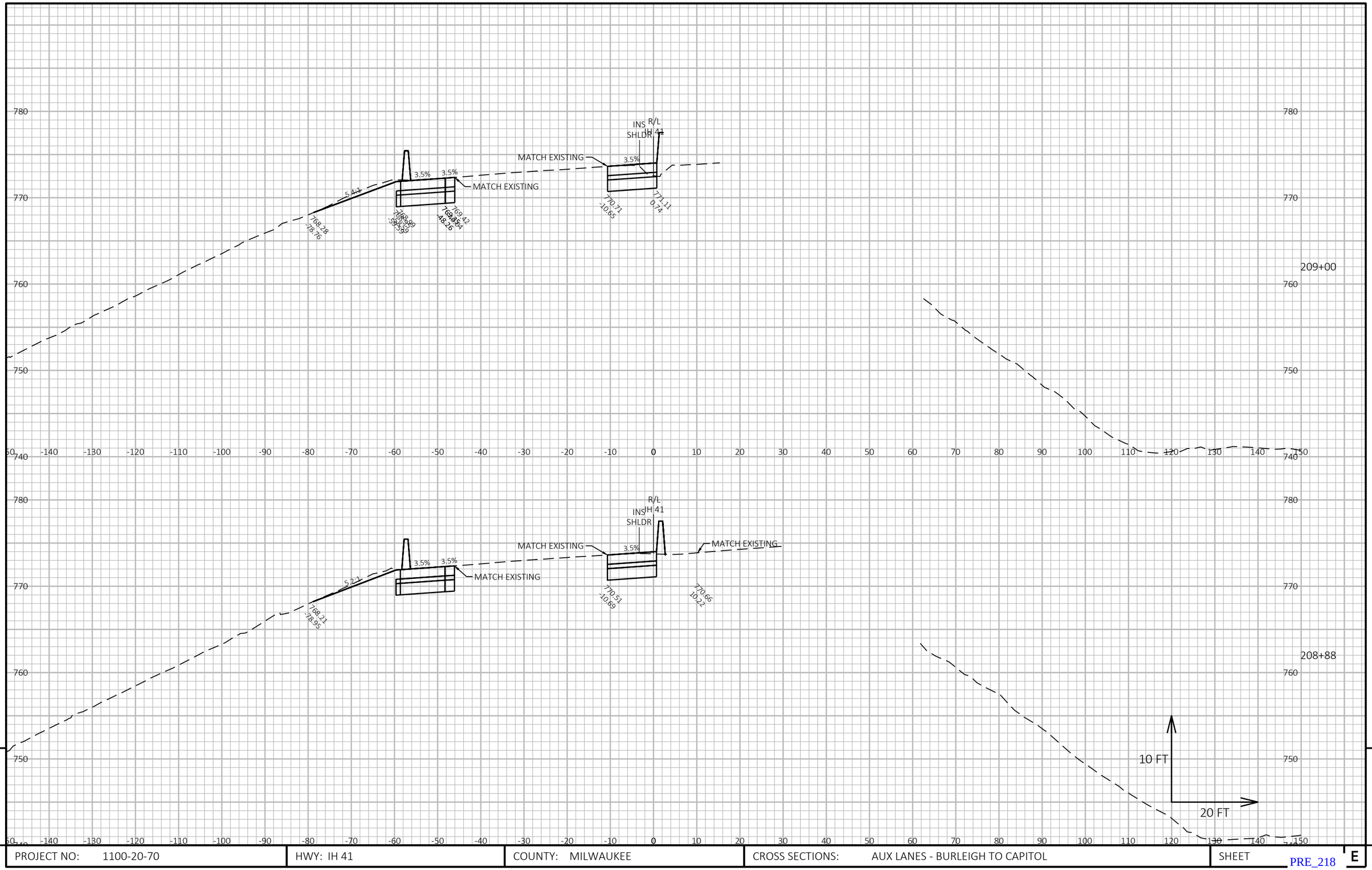


PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET PRE_217 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902016-xs

PLOT DATE : 9/28/2021 12:17 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_218

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902017-xs

PLOT DATE : 9/28/2021 12:18 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

780

770

760

750

740

3.5%

3.5%

5.3:1

MATCH EXISTING

768.19

-77.65

INS SHLDR

R/L IH 41

209+43

10 FT

20 FT

WETLAND

-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

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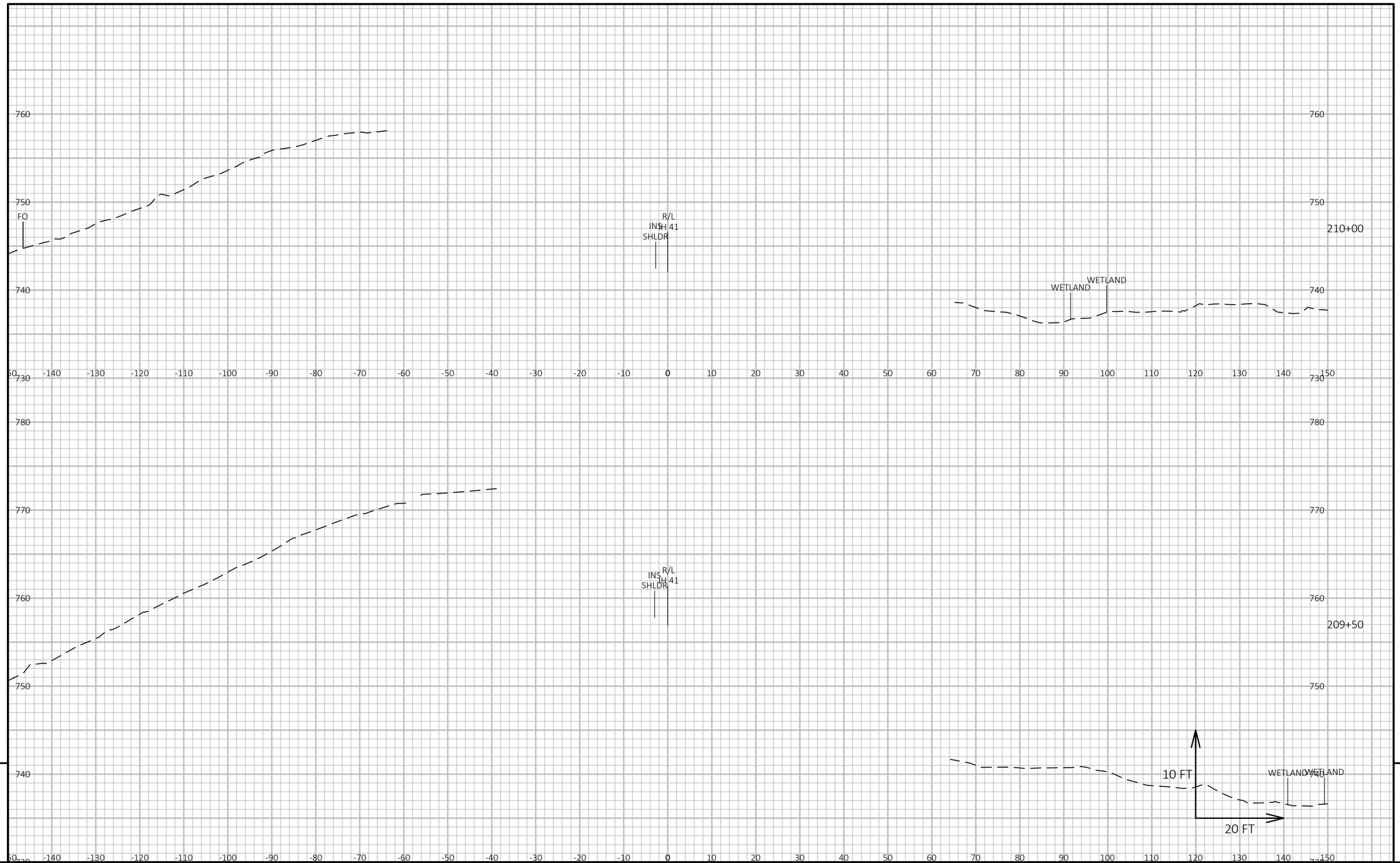
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_219

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902018-xs

PLOT DATE : 9/28/2021 12:18 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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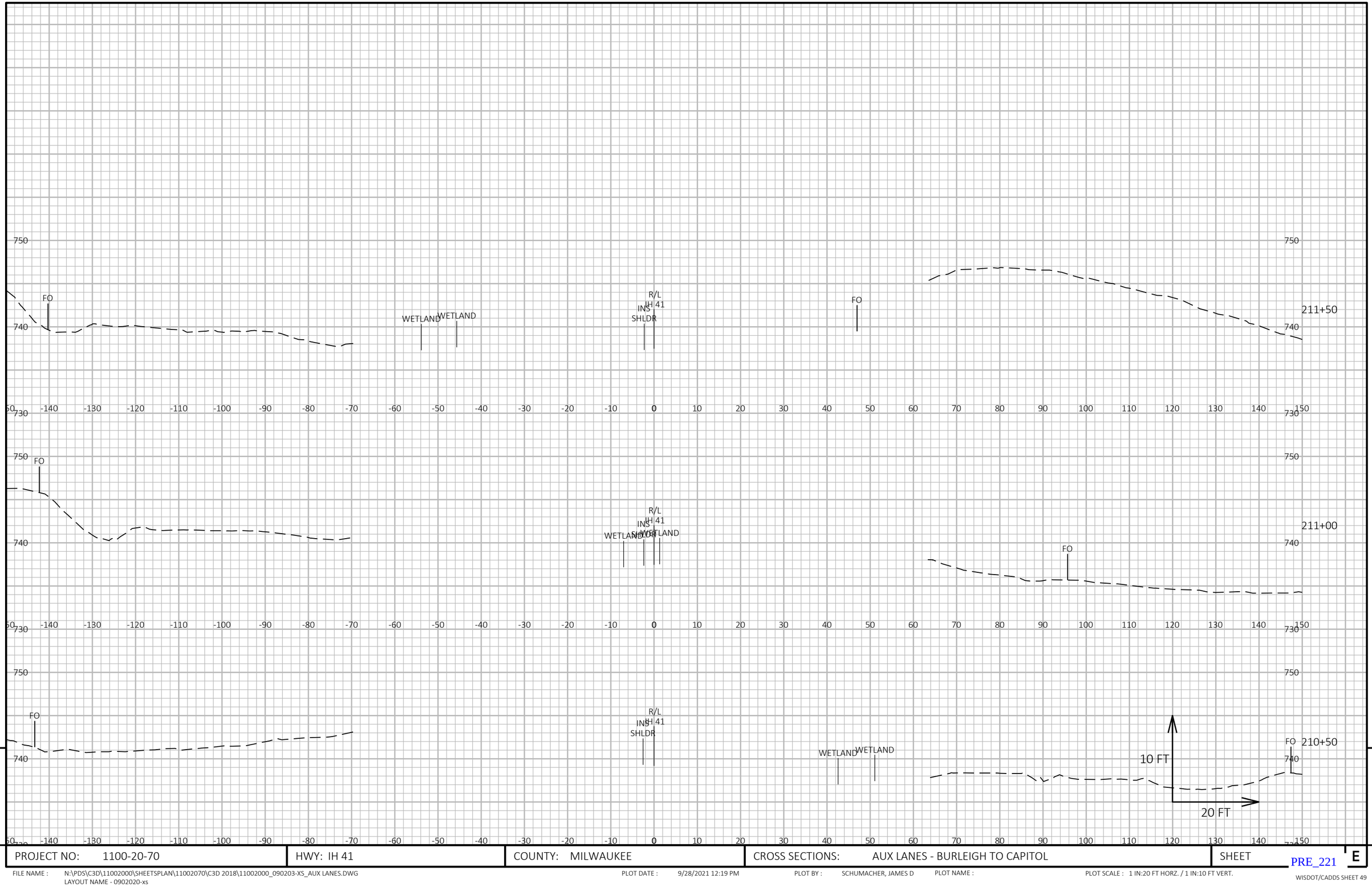
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_220

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902019-xs

PLOT DATE : 9/28/2021 12:19 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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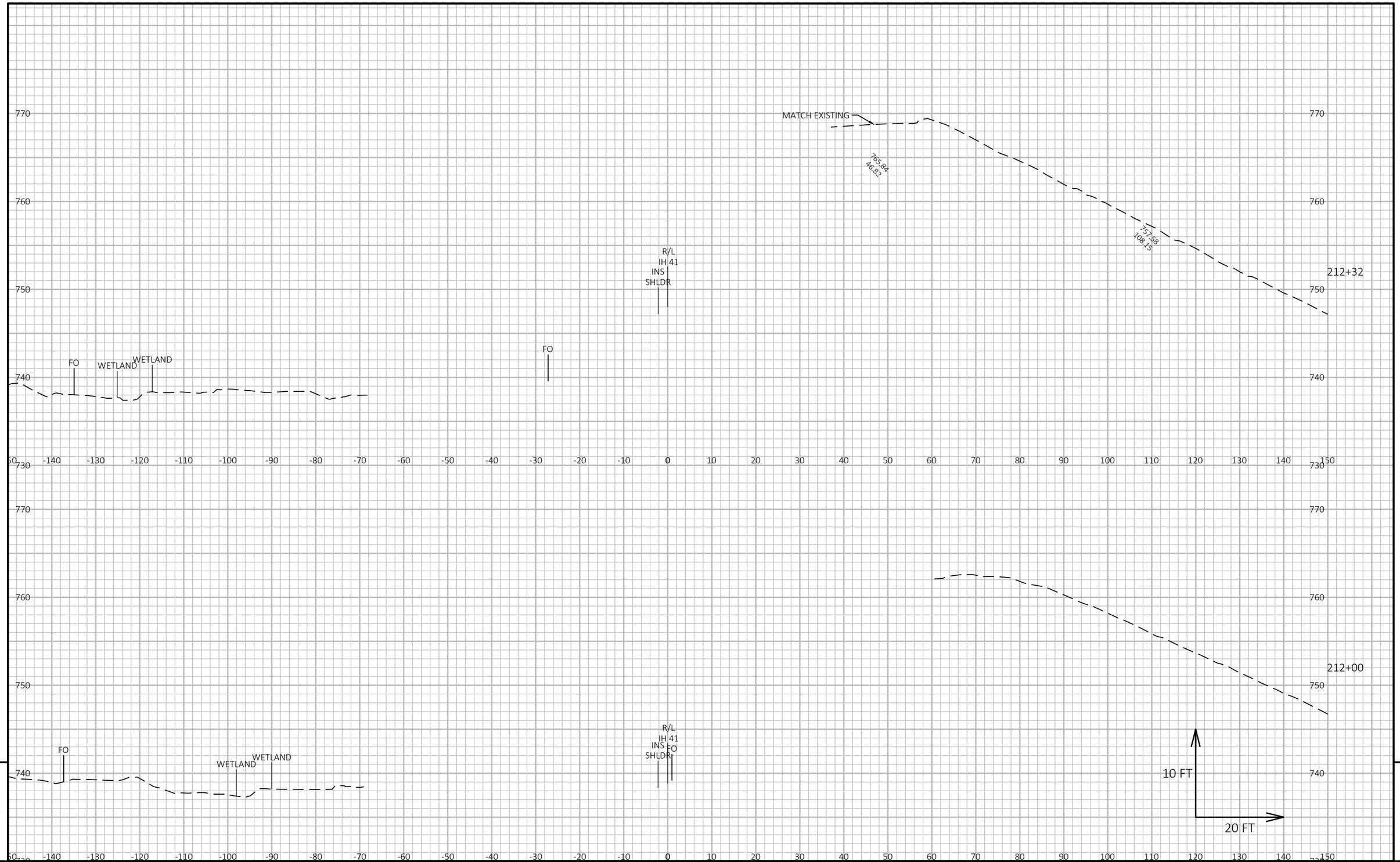
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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET PRE_221 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902020-xs

PLOT DATE : 9/28/2021 12:19 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_222

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902021-xs

PLOT DATE : 9/28/2021 12:19 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

780

770

760

750

740

WETLAND

WETLAND

WETLAND

FO

R/L
IH 41
INS
SHLDR

MATCH EXISTING

3.5%

3.5%

765.29
46.83

765.71
58.83

766.17
71.17

3.0:1

765.92
108.78

212+50

10 FT

20 FT

-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

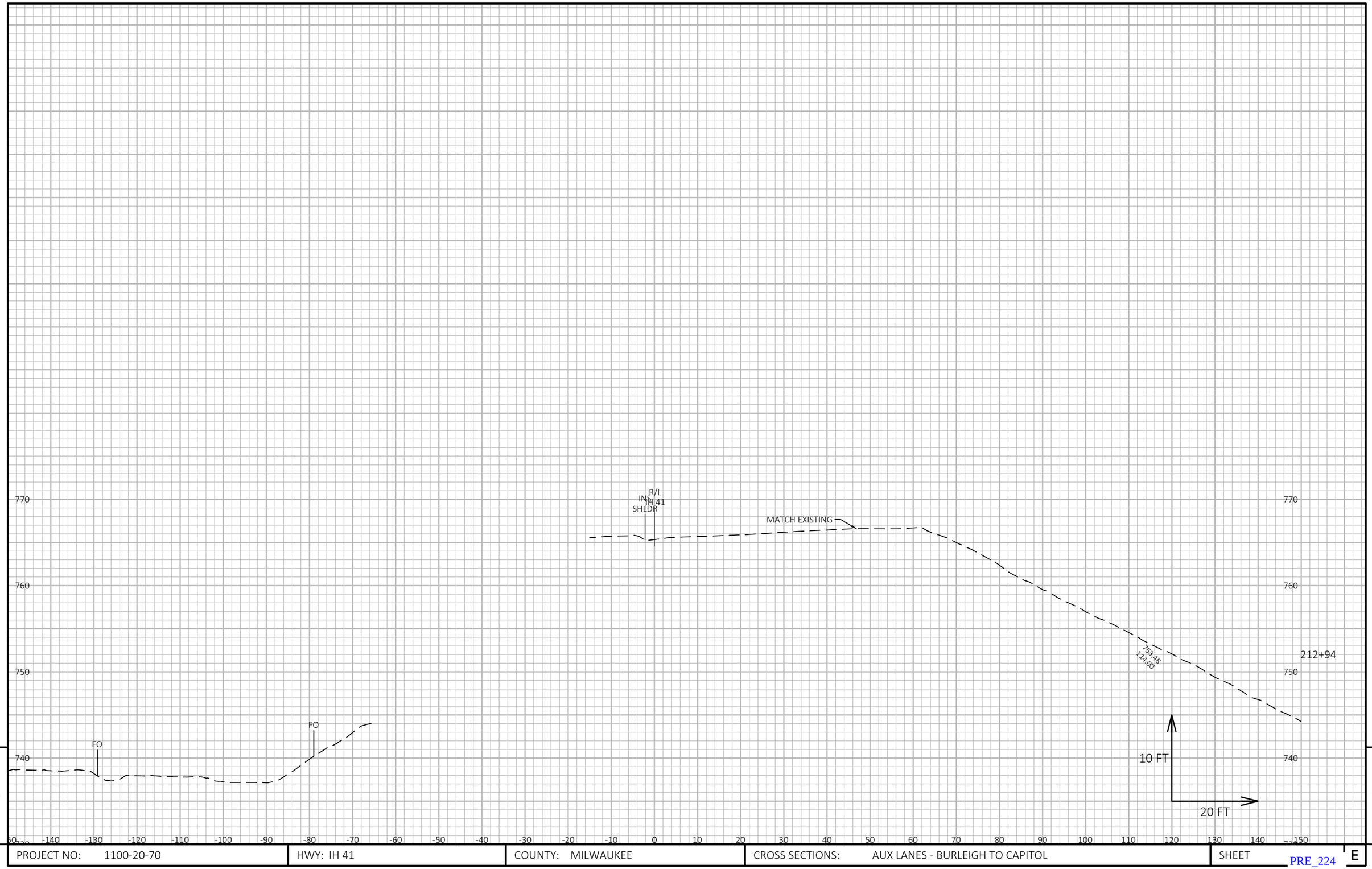
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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET PRE_223 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902022-xs

PLOT DATE : 9/28/2021 12:20 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



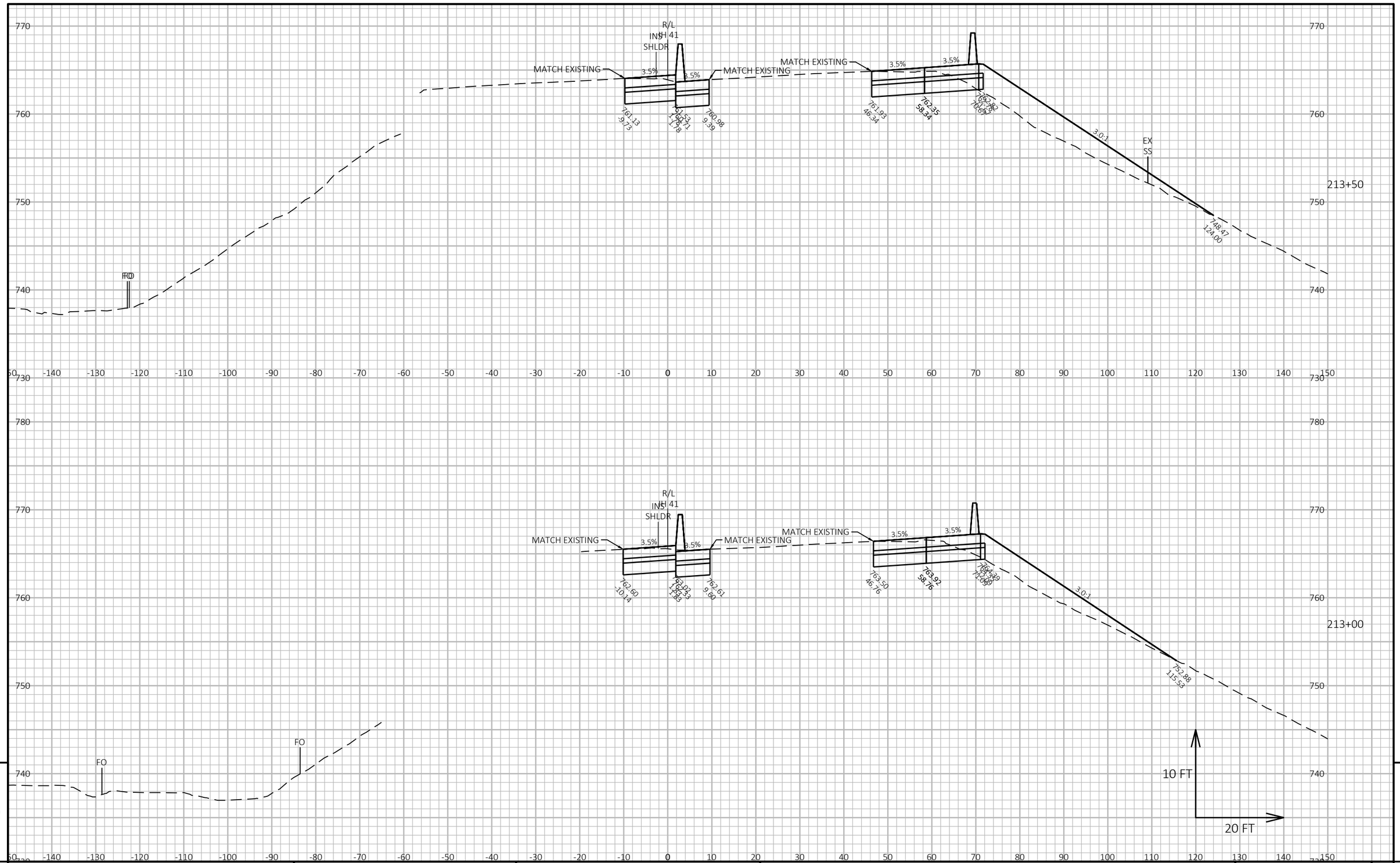
9

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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET PRE_224 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902023-xs

PLOT DATE : 9/28/2021 12:20 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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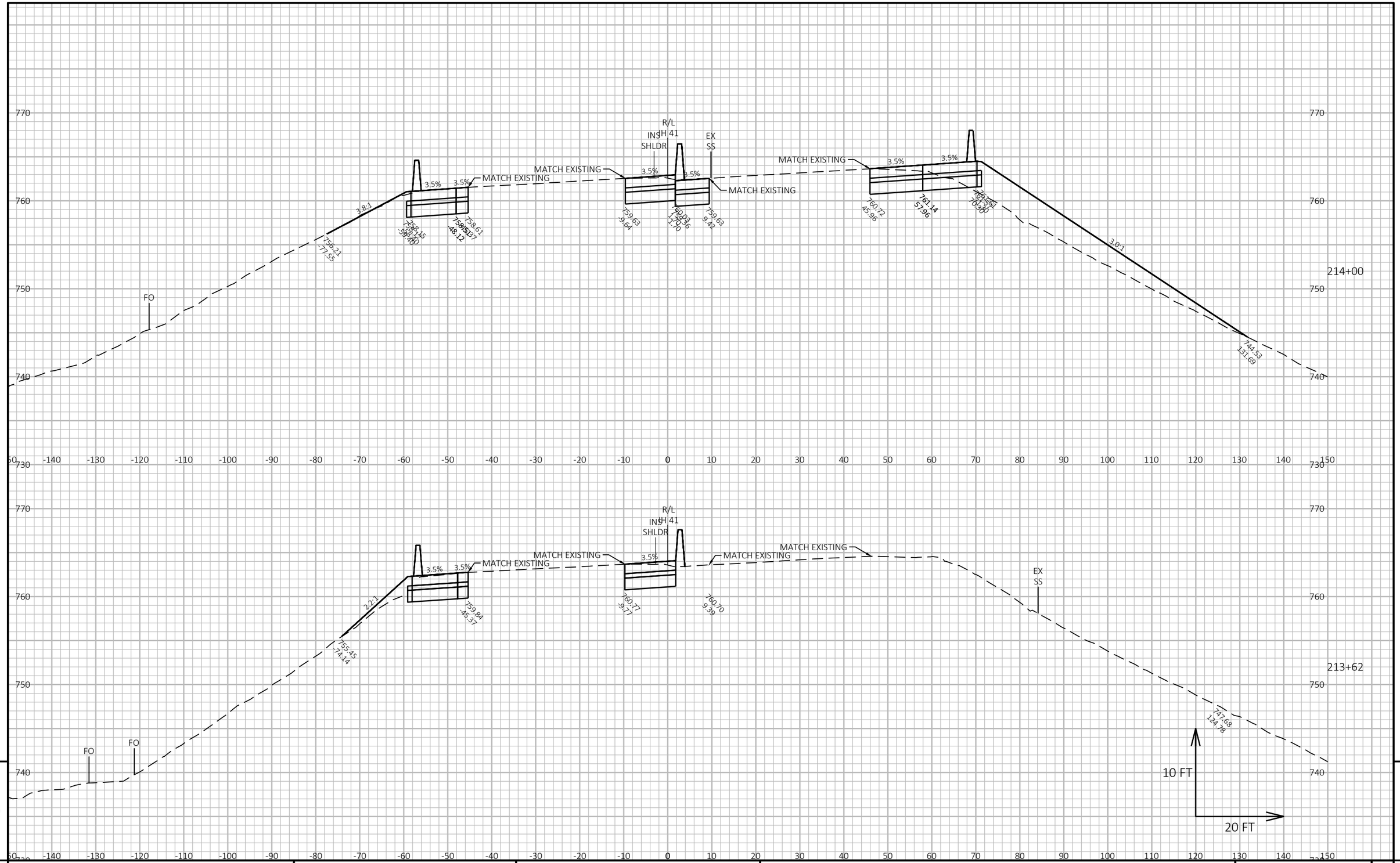
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_225

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902024-xs

PLOT DATE : 9/28/2021 12:21 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



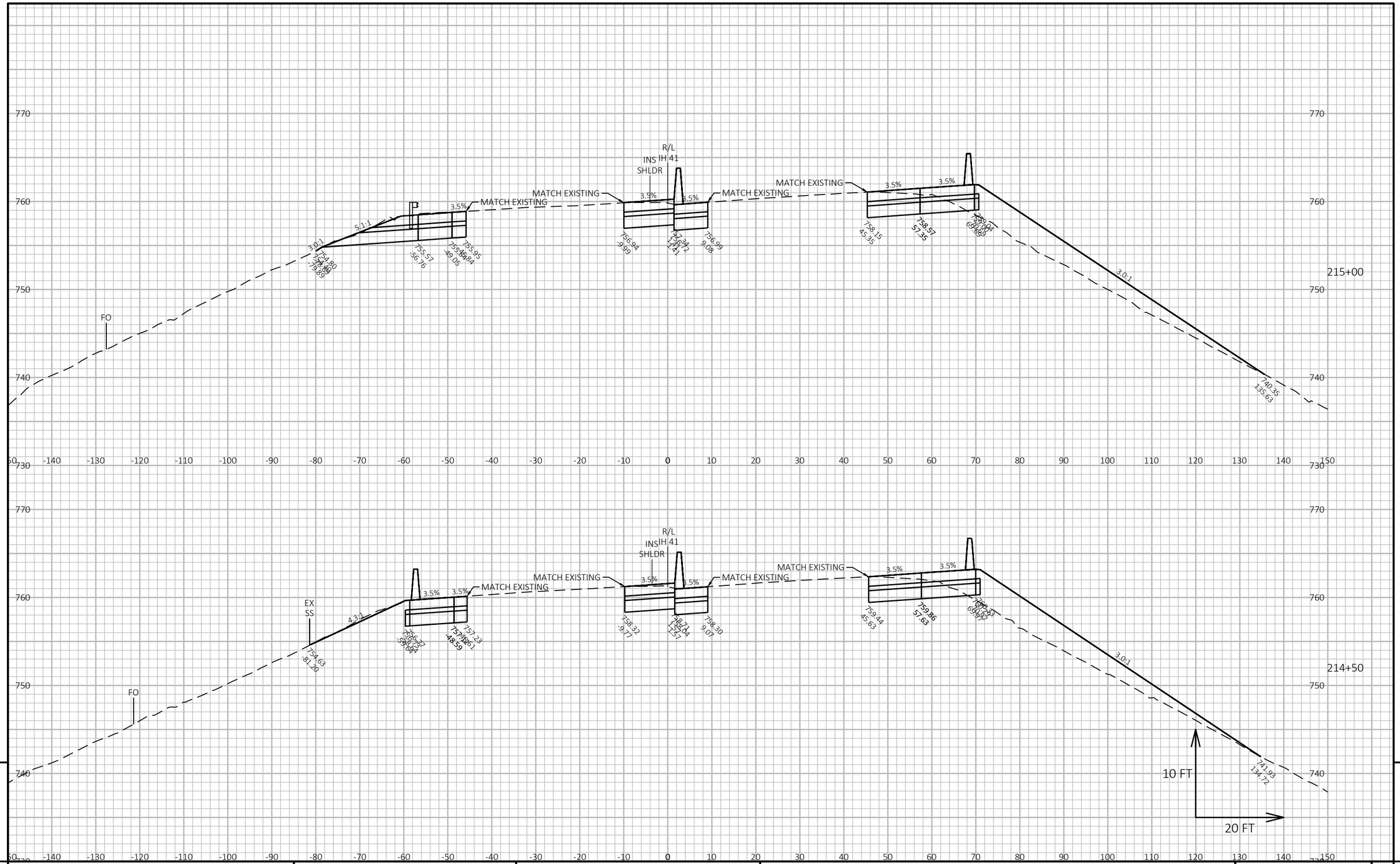
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_226

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902025-xs

PLOT DATE : 9/28/2021 12:21 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



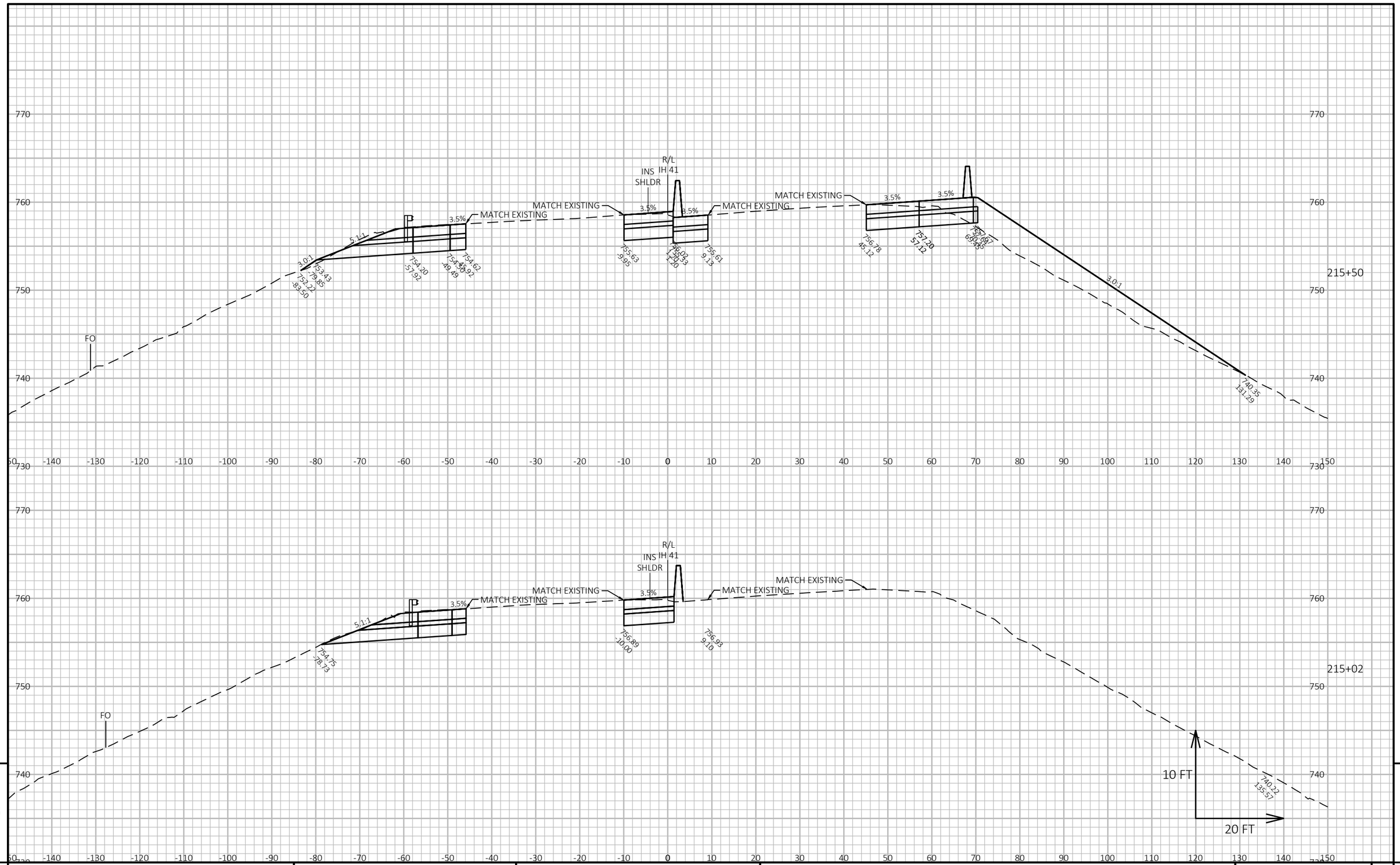
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_227

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902026-xs

PLOT DATE : 9/28/2021 12:21 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

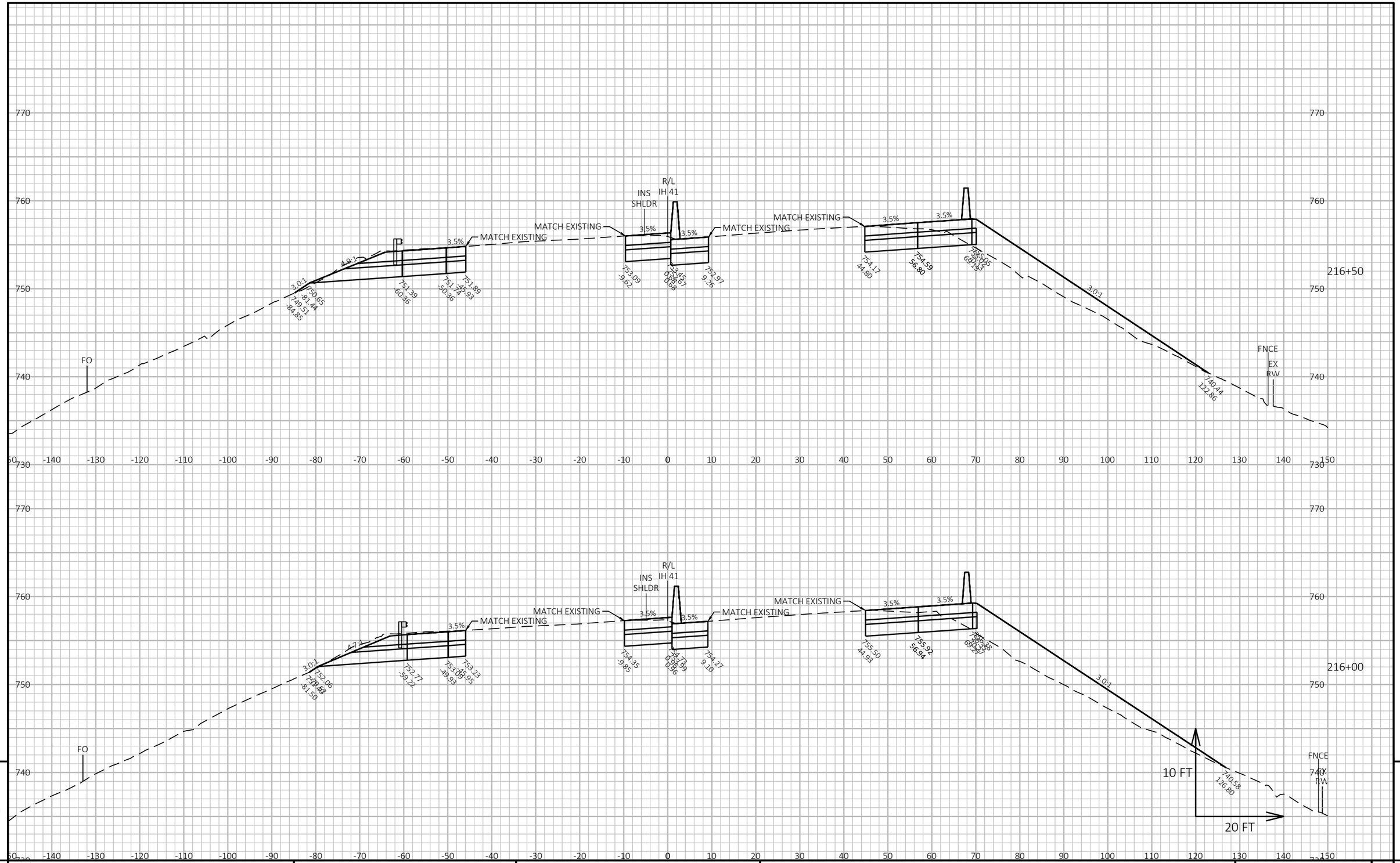
WISDOT/CADDS SHEET 49



PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET PRE_228 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902027-xs

PLOT DATE : 9/28/2021 12:22 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

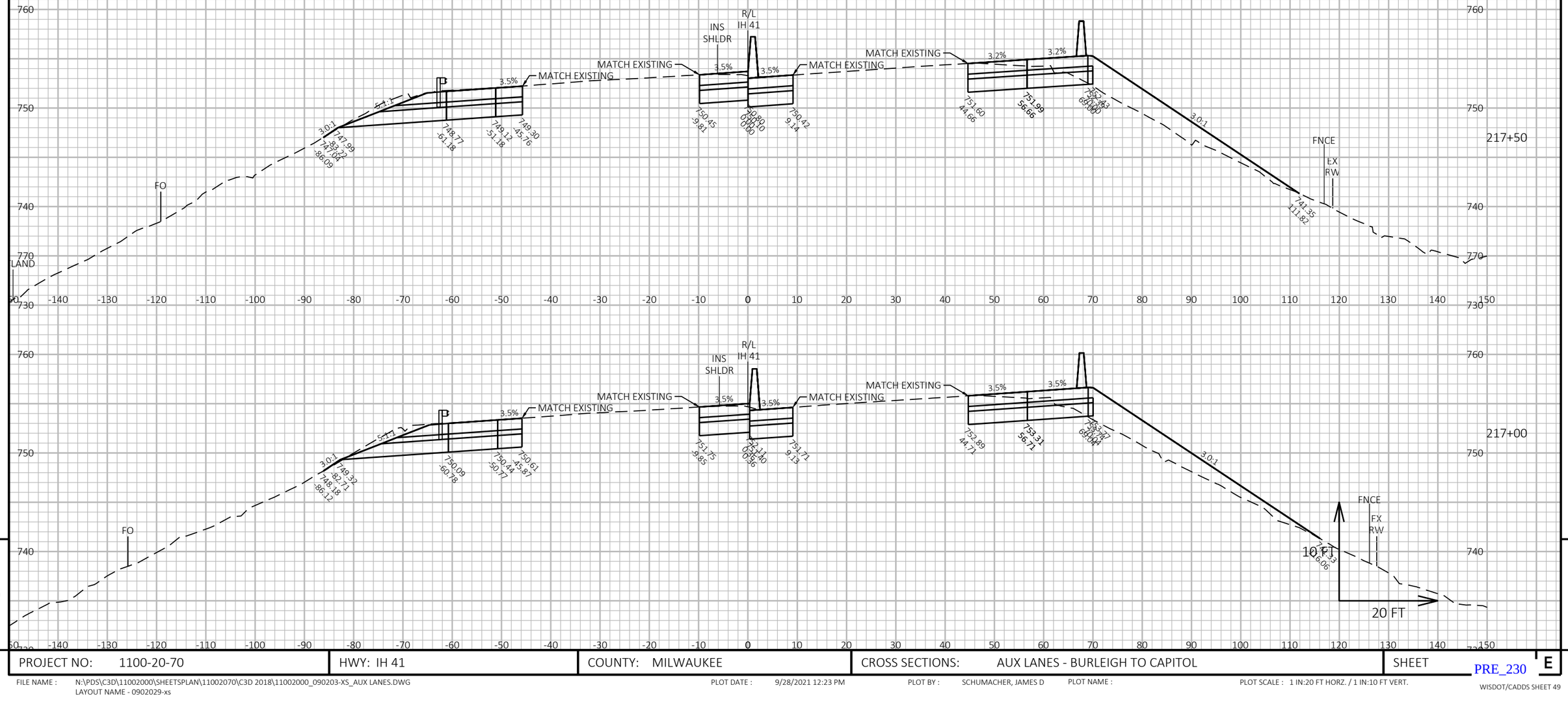


PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_229

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902028-xs

PLOT DATE : 9/28/2021 12:22 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



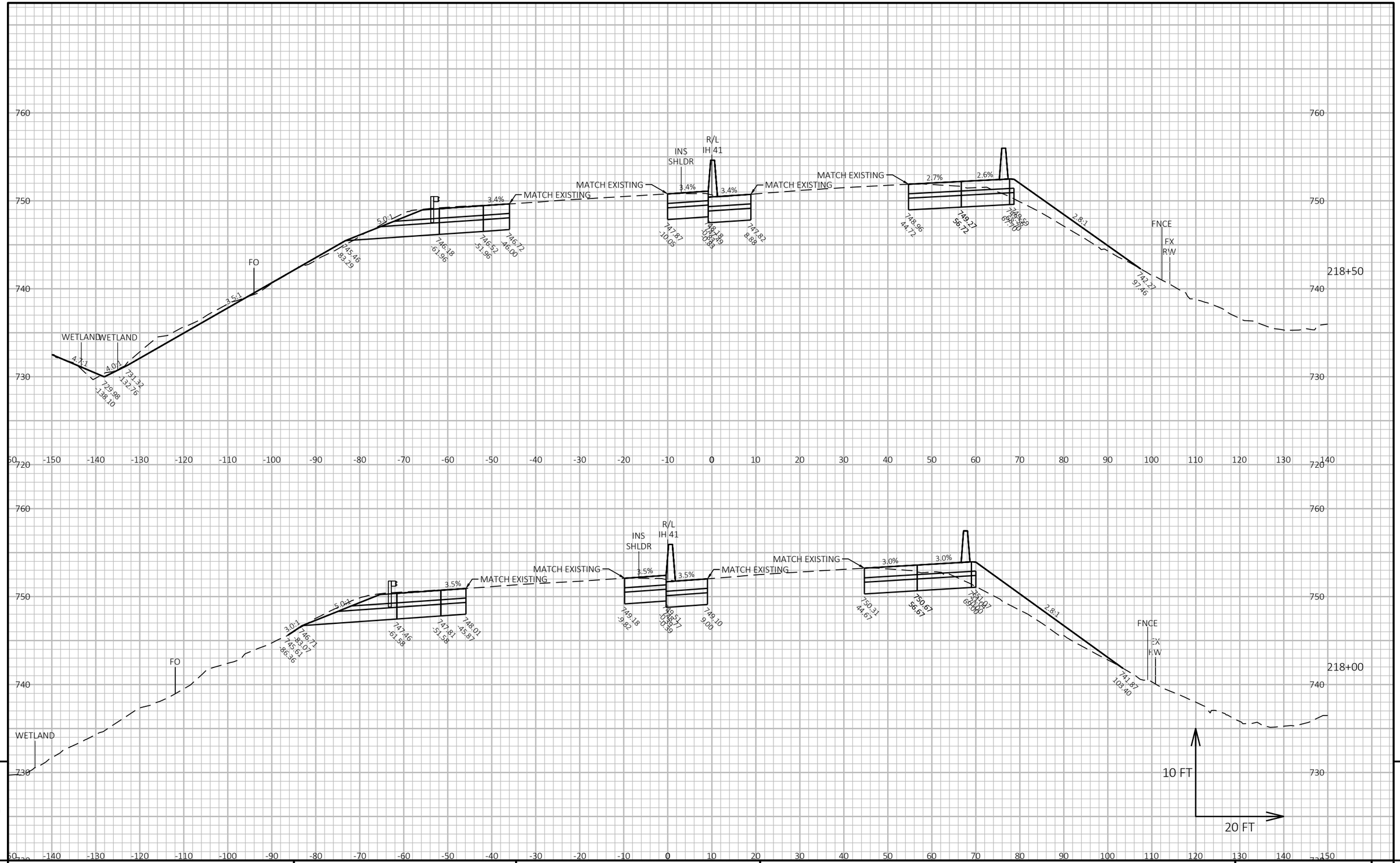
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902029-xs

PLOT DATE : 9/28/2021 12:23 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_230

WISDOT/CADDS SHEET 49



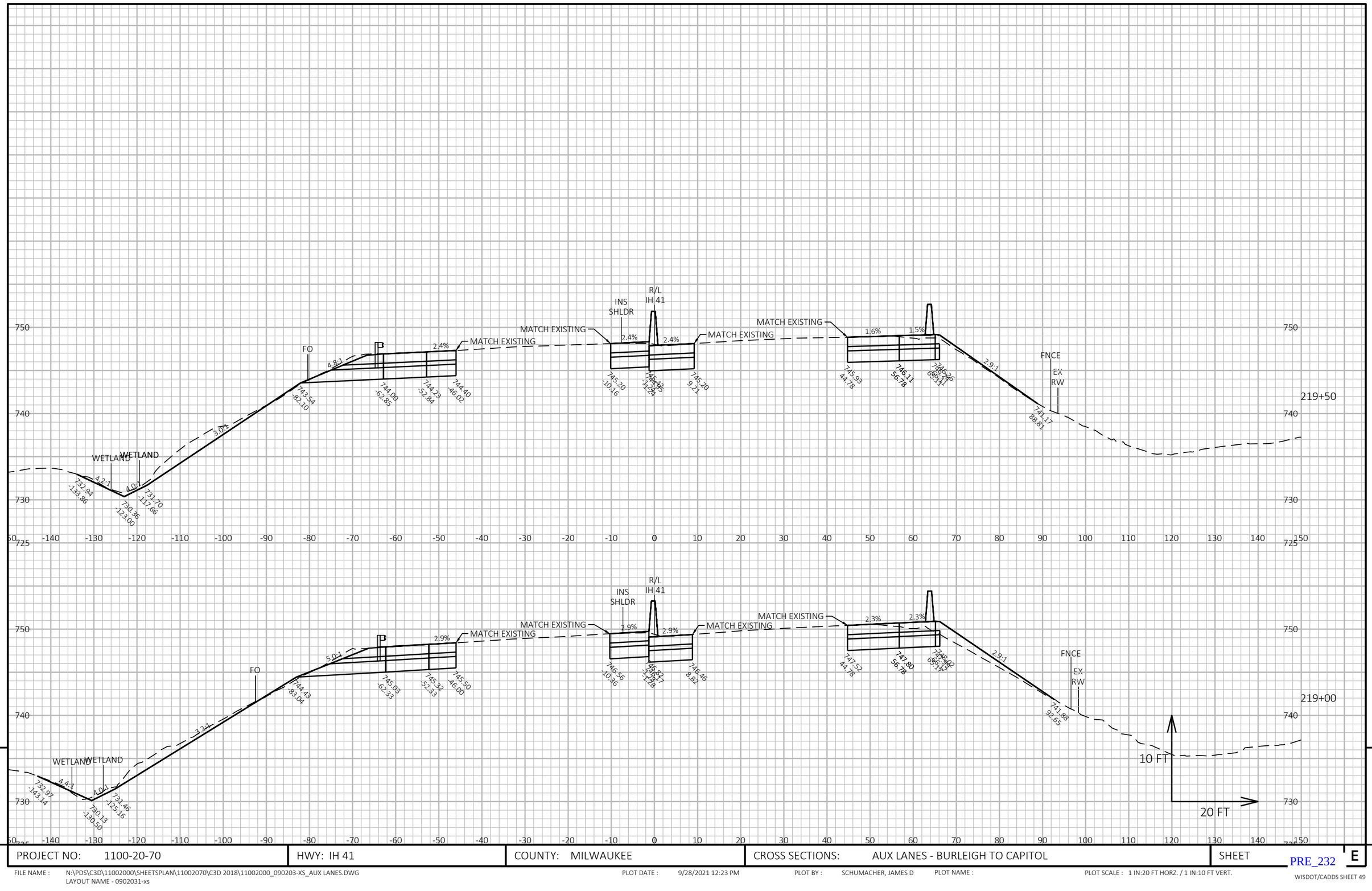
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_231

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902030-xs

PLOT DATE : 9/28/2021 12:23 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



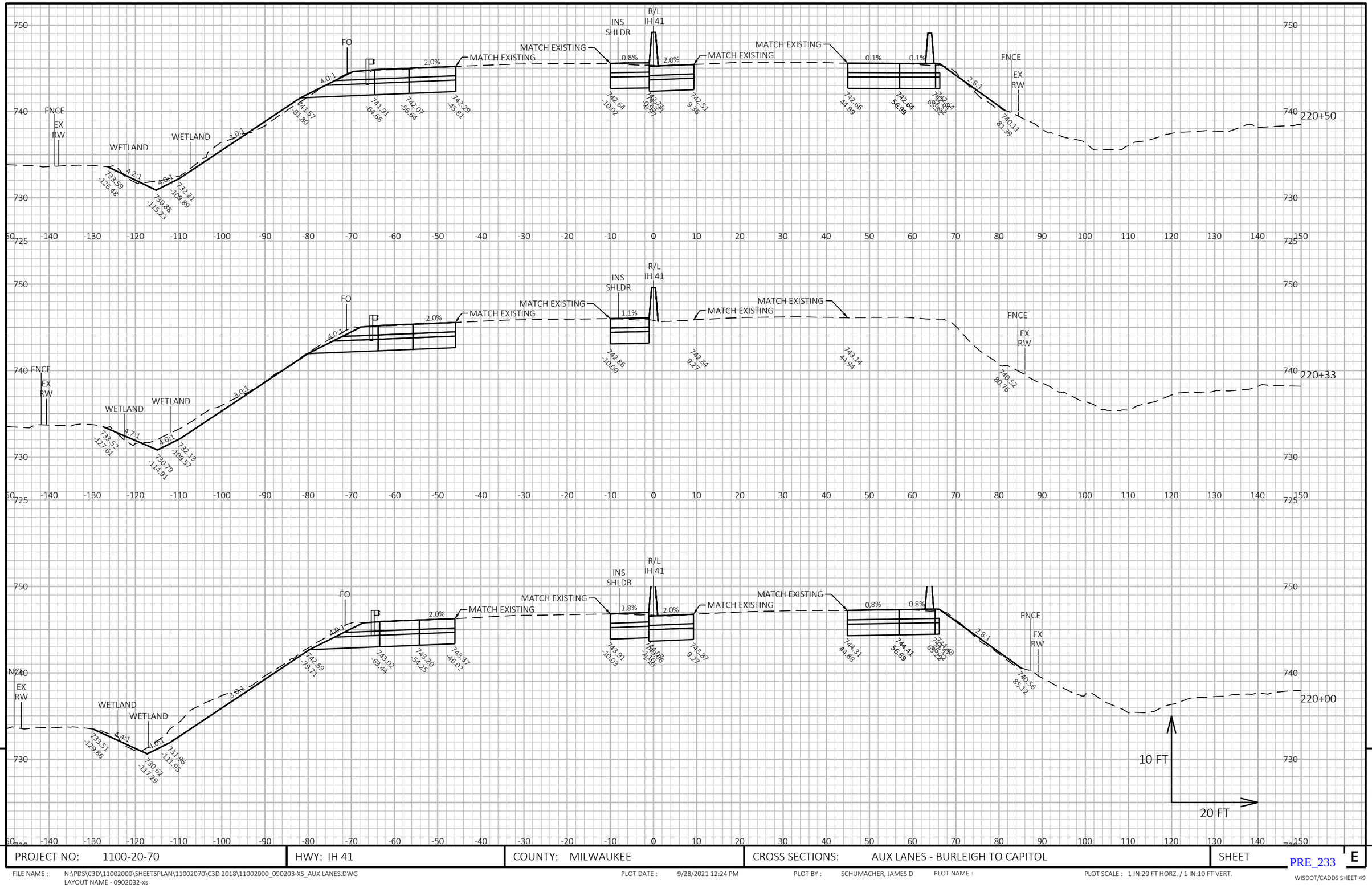
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_232

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902031-xs

PLOT DATE : 9/28/2021 12:23 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_233

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902032-xs

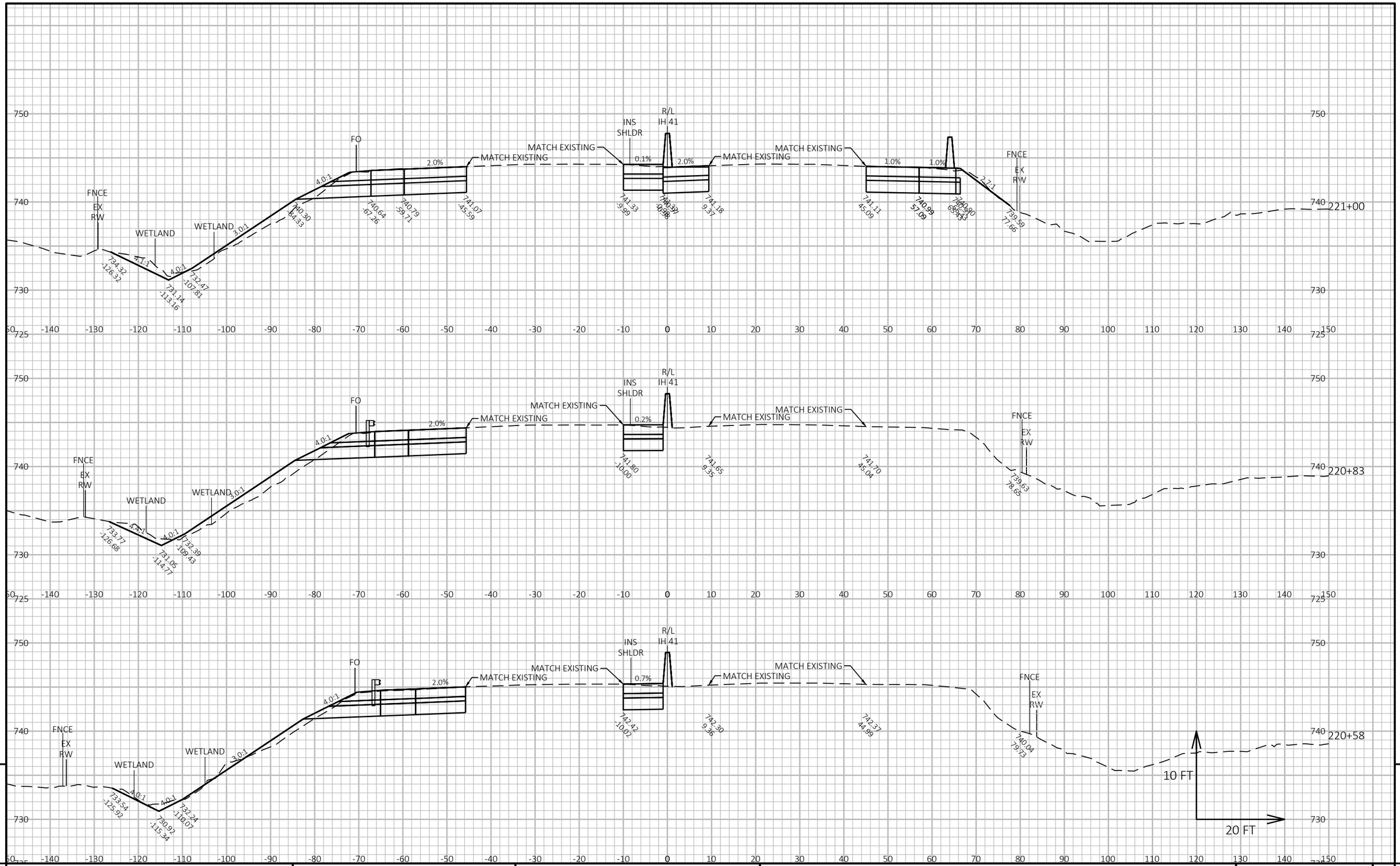
PLOT DATE : 9/28/2021 12:24 PM

PLOT BY : SCHUMACHER, JAMES D

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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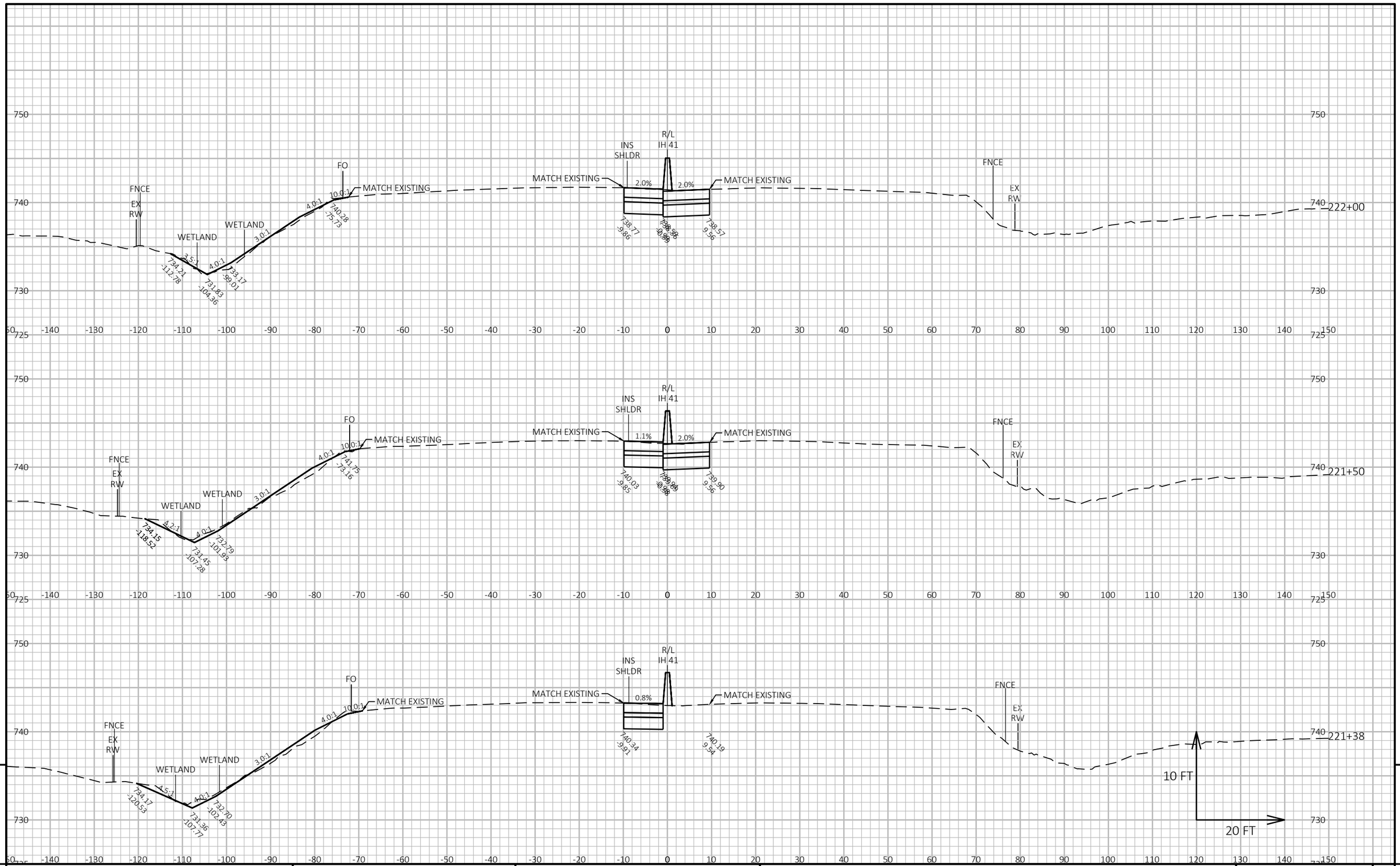
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_234

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902033-xs

PLOT DATE : 9/28/2021 12:24 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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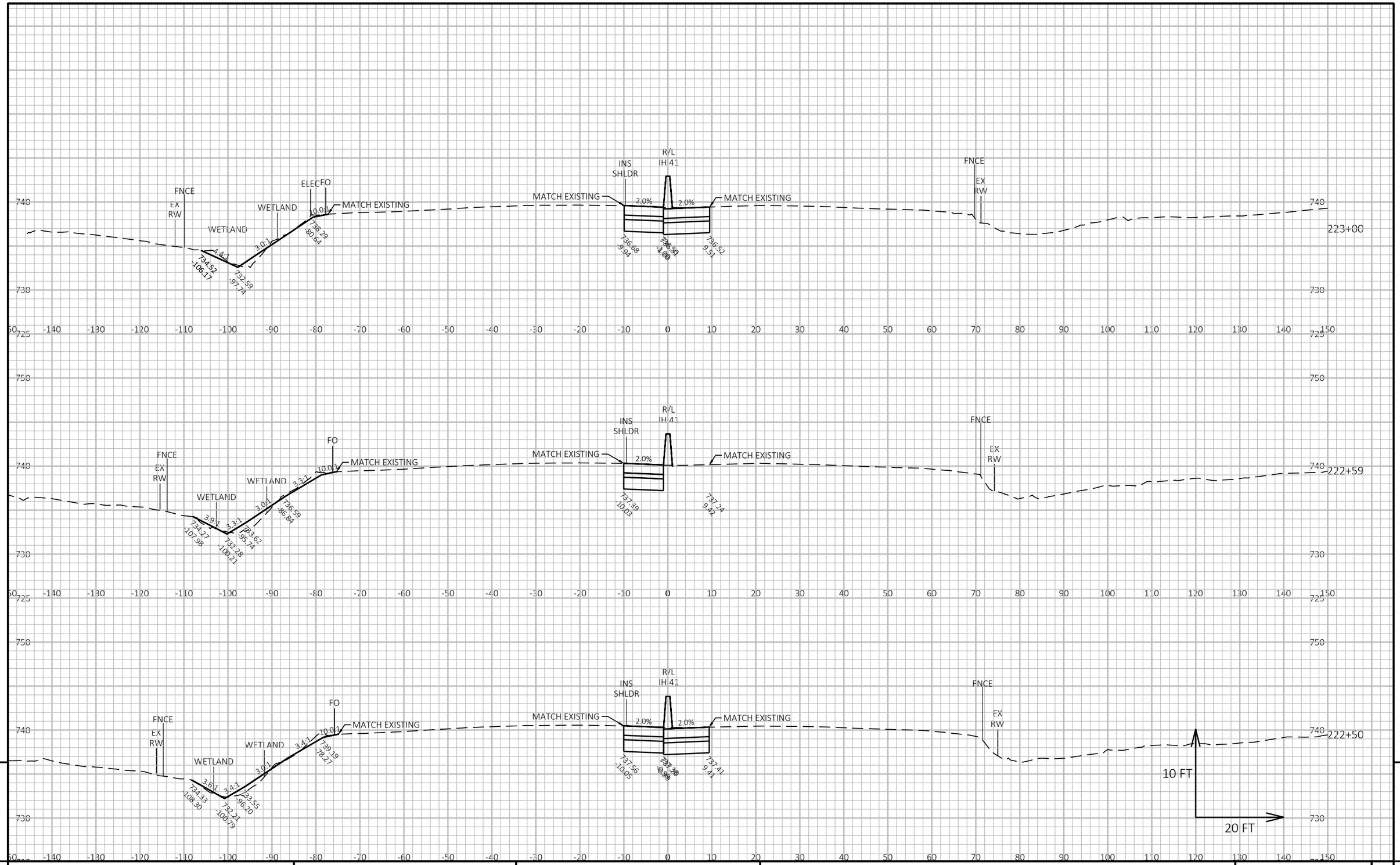
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_235

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902034-xs

PLOT DATE : 9/28/2021 12:25 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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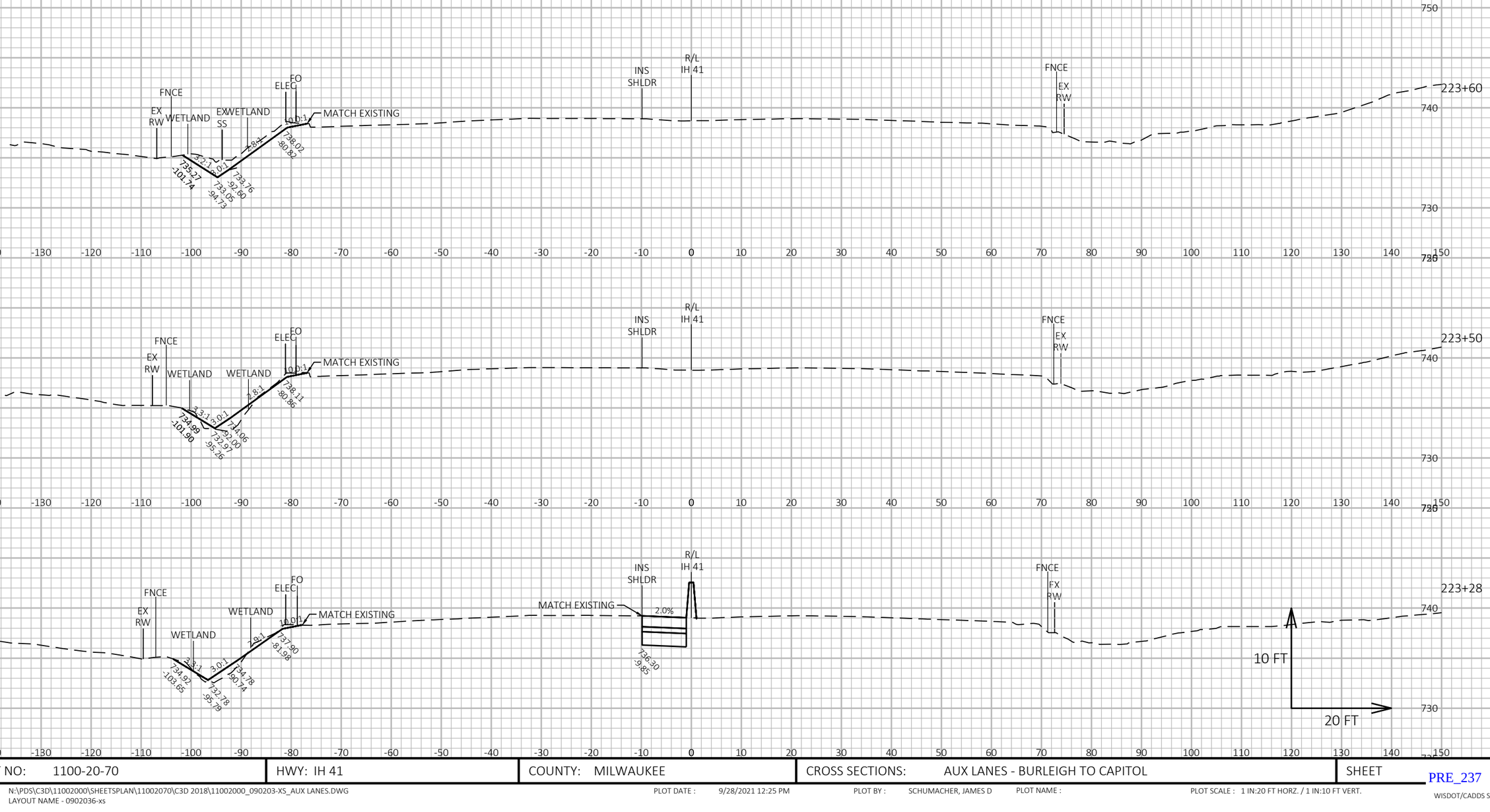
PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_236

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902035-xs

PLOT DATE : 9/28/2021 12:25 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	CROSS SECTIONS: AUX LANES - BURLEIGH TO CAPITOL	SHEET E

PRE_237

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_090203-XS_AUX LANES.DWG
LAYOUT NAME - 0902036-xs

PLOT DATE : 9/28/2021 12:25 PM PLOT BY : SCHUMACHER, JAMES D PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

WISCONSIN DEPARTMENT OF TRANSPORTATION

EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a “PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

a. With the plan open in Acrobat, select Document > Insert Pages.
b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
c. In the Insert dialog box, choose After for Location and Last page for Page.
d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

a. Go to the last sheet of the plan.
b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match te page number in the Acrobat Status bar).

3. Re-Save the PDF

a. Select File > Save As and save the PDF.

Place Preliminary Sheet Numbers

TO REMOVE PRELIMINARY SHEET NUMBERS

Remove

PR