wke Dec 12, 2023

PROJECT ID: 1100-20-74

WITH:

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 = 244



DESIGN DESIGNATION		IH 41	CAPITOL
A.A.D.T.	=	149,000	51,000
A.A.D.T.	=	169,300	56,300
D.H.V.	=	16,422	4,588
D.D.	=	59/41	50/50
T.	=	13%	5%
DESIGN SPEED	=	60 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

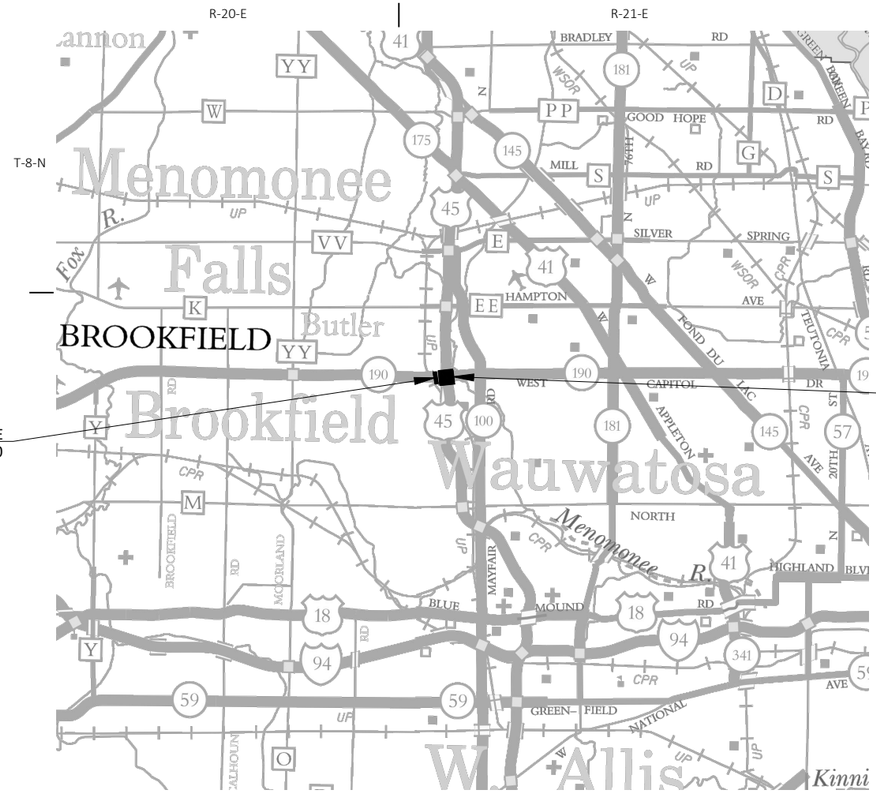
CAPITOL DR I/C

IH 41

MILWAUKEE

STATE PROJECT NUMBER
1100-20-74

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1100-20-74	WISC 2024064	1



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 0.047 MILES

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	LYNCH/AYRES/RA SMITH
Designer	STEVEN RING
Project Manager	CLAYTON SMITH
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	JOE GALLAMORE

APPROVED FOR THE DEPARTMENT

DATE: 07/28/2023 Clayton Smith (Signature)

E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\010101-TI.DWG PLOT DATE : 6/28/2023 8:36 AM PLOT BY : RING, STEVEN M PLOT NAME :

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.	SUPERELEVATION
SPA.	SPACE
STA.	STATION
SYM.	SYMMETRICAL
T.	PERCENT TRUCKS
TYP.	TYPICAL
V.	DESIGN SPEED

ORDER OF SECTION 2

DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
REMOVAL PLANS
PLAN DETAILS
EROSION CONTROL
SIGNING PLAN
PAVEMENT MARKINGS
TRAFFIC CONTROL
DETOURS
ALIGNMENT LAYOUT
SURVEY CONTROL

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.

2

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

2

UTILITY CONTACTS

AT&T LOCAL NETWORK – COMMUNICATION LINE
MR. TIMOTHY LAPOINTE
1301 FANNIN ST
HOUSTON, TX 77002
(281) 352-3631
TI0695@att.com

AT&T WISCONSIN – COMMUNICATION LINE
MR. JAY BULANEK
435 SOUTH 95TH STREET
MILWAUKEE, WI 53214
(414) 491-2855
jb5175@att.com

SPECTRUM – COMMUNICATION LINE
MR. BEAU ABUYA
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
(414) 785-9241
Beau.abuya@charter.com

SPRINT COMMUNICATIONS CO LP – COMMUNICATION LINE
MR. DAN HILLIARD
849 EARL ST
SAINT PAUL, MN 55106
(612) 217-3526
dan.j.hilliard@t-mobile.com

WE ENERGIES – ELECTRICITY
MR. JAFAR AMIN
518 W CHERRY ST
MILWAUKEE, WI 53212
(920) 621-6903
(414) 935-4348
Jafar.amin@daarcorp.com

WE ENERGIES – GAS/PETROLEUM
MR. JAFAR AMIN
518 W CHERRY ST
MILWAUKEE, WI 53212
(920) 621-6903
(414) 935-4348
Jafar.amin@daarcorp.com

LEVEL 3 COMMUNICATIONS LLC – COMMUNICATION LINE
Brahim Gaddour
3225 Intertech Dr Suite 600
Brookfield, WI 53045
(414) 908-1027
brahim.gaddour@lumen.com

MIDWEST FIBER NETWORKS LLC – COMMUNICATION LINE
CORY SCHMUKI
6070 NORTH FLINT RD
GLENDALE, WI 53209
(414) 459-3561
cschmuki@midwestfibernetworks.com

CITY OF MILWAUKEE – STREET LIGHTING
MR. NEAL KARWEIK
1540 W CANAL ST
MILWAUKEE, WI 53233
PHONE: 414-286-5942
CELL: 414-708-4245
nkarwe@milwaukee.gov

CITY OF MILWAUKEE - SEWER
MR. ZAFAR YOUSUF
841 N BROADWAY, 4TH FLOOR
MILWAUKEE, WI 53202
PHONE: (414) 286-2467
zyousu@milwaukee.gov

CITY OF MILWAUKEE - CONDUIT
MS. KAREN ROGNEY
841 N BROADWAY ST
MILWAUKEE, WI 53202
(414) 614-1344
krogne@milwaukee.gov

CITY OF MILWAUKEE - WATER
DAVE GOLDAPP
841 N BROADWAY, ROOM 409
MILWAUKEE, WI 53202
PHONE: 414-286-6301
CELL: 414-708-2695
Dave.goldapp@milwaukee.gov

CITY OF WAUWATOSA – SEWER
NICK DEMING
7725 W NORTH AVE
WAUWATOSA, WI 53213
(414) 479-3541
ndeming@wauwatosa.net

CITY OF WAUWATOSA – STREET LIGHTING
NICK DEMING
7725 W. NORTH AVE
WAUWATOSA, WI 53213
(414) 479-3541
ndeming@wauwatosa.net

WAUWATOSA WATER UTILITY - WATER
MR. ADAM FLORIN
11100 W. WALNUT RD
WAUWATOSA, WI 53226
(414) 831-0805
AFlorin@wauwatosa.net

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT – SEWER
JAMES ROMANOWSKI
260 W SEEBOTH ST
MILWAUKEE, WI 53204
(414) 225-2241
jromanowski@mmsd.com

STATE AGENCIES

WISCONSIN DEPARTMENT OF TRANSPORTATION – COMMUNICATION LINE

MR. JOHN MITTELSTADT
433 W ST PAUL AVE STE 300
MILWAUKEE, WI 53203-3007
PHONE: (608) 205-7859
John.mittelstadt@ dot.wi.gov

WISDOT ATR PULL BOXES - ELECTRICITY

MR. RUSSEL LEWIS
TRAVEL SURVEY SHOP
3625 PIERSTORFF ST P.O. BOX 2583
MADISON, WI 53704-2583
PHONE: (608) 516-5754
Russell.lewis@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

MR. CLAYTON SMITH- PROJECT MANAGER
141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
PHONE: (262) 548-6428
Clayton.Smith@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION – SIGNALS

MR. DAVID BRANTNER
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 548-8736
david.brantner@dot.wi.gov

WISCONSIN DEPARTMENT OF NATRUAL RESOURCES

MR. RYAN PAPPAS
1027 WEST PAUL AVE
MILWAUKEE, WI 53233
PHONE: (414) 303-3011
Ryan.pappas@wisconsin.gov

OTHER AGENCIES

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

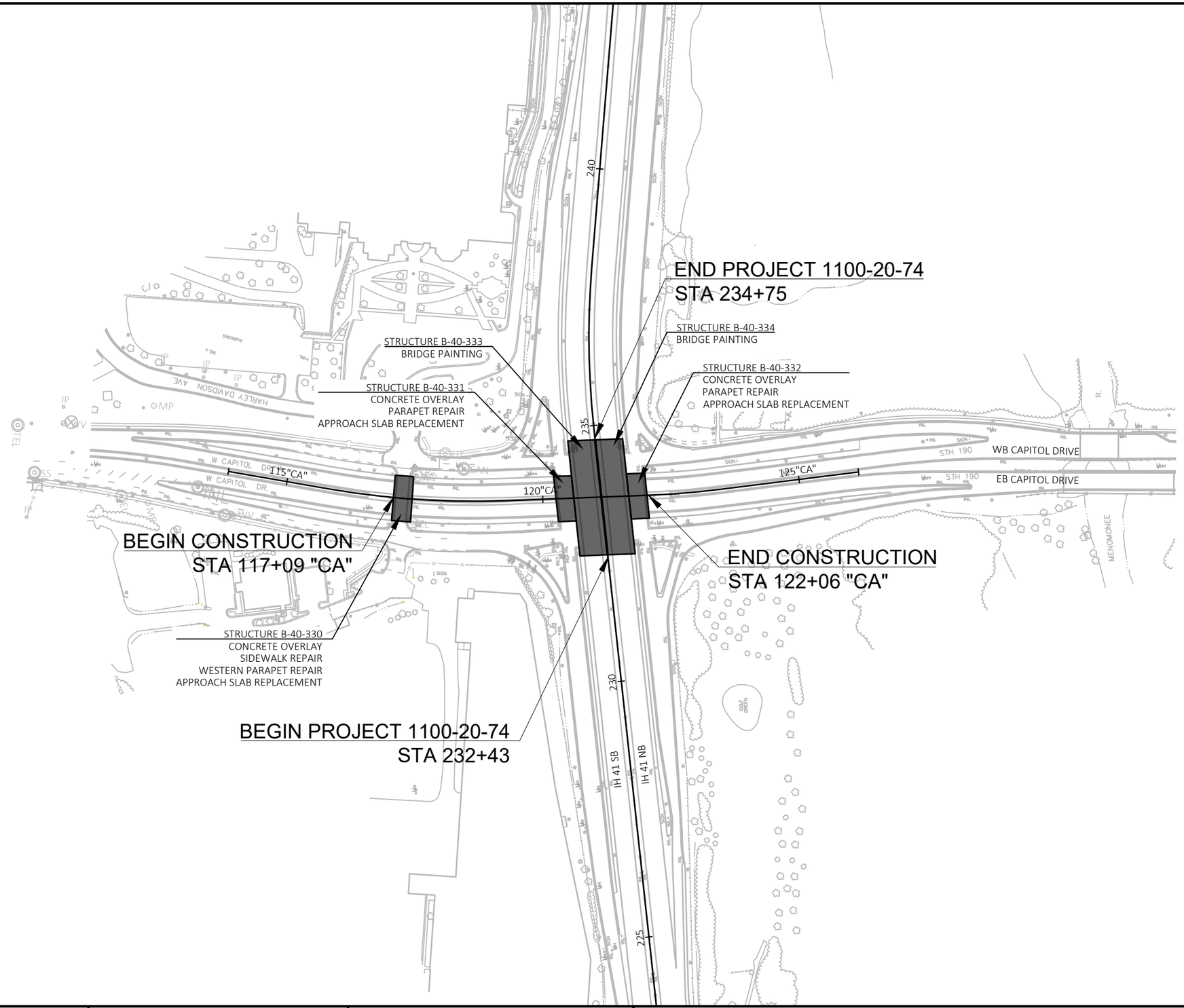
TRANSPORTATION MANAGER (BUS STOPS)

MR. DAVID LOCHER
PHONE (414) 343-1727
dlocher@mcts.org

SEWRPC

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

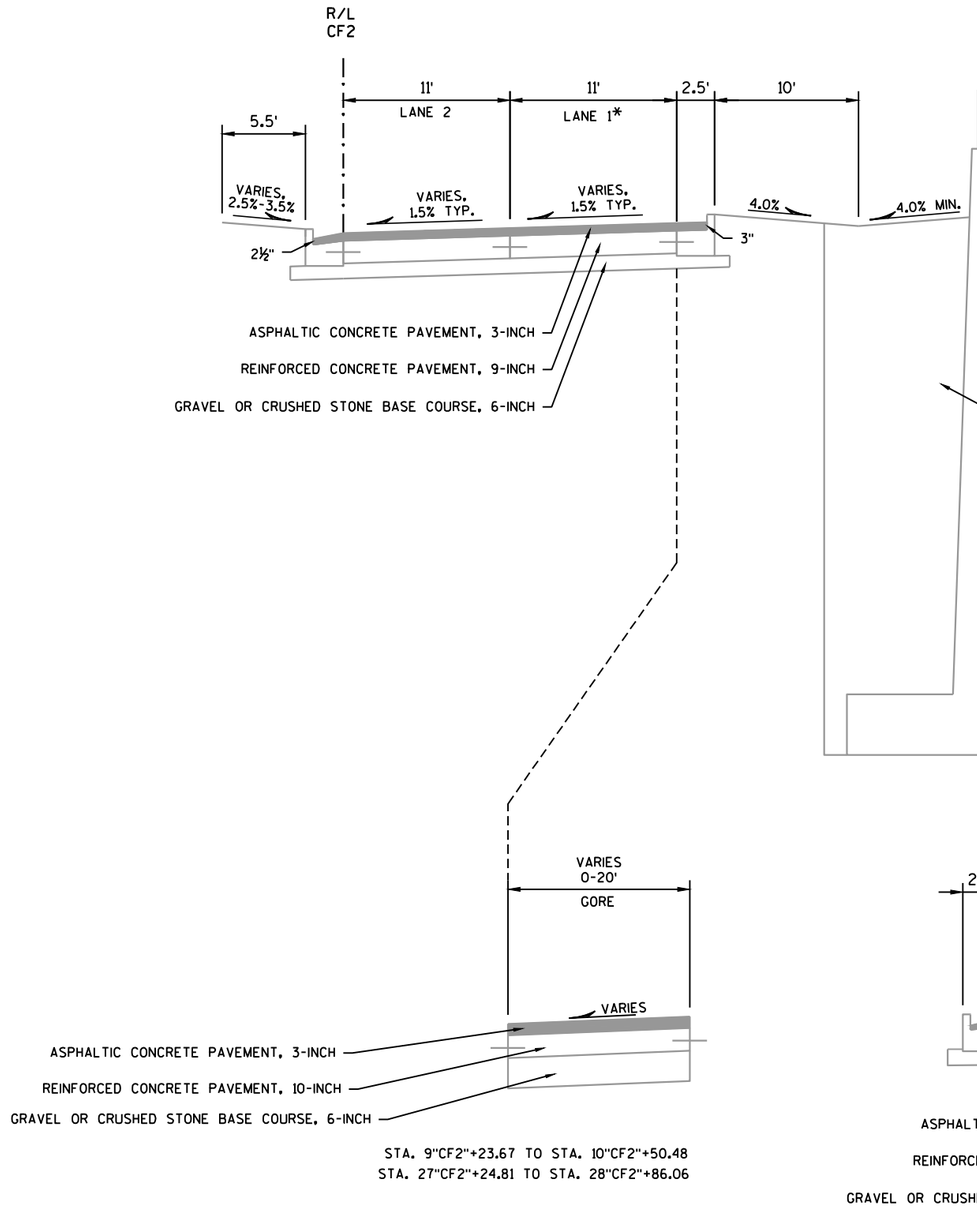
PRIMARY STRUCTURE SCOPE:
- BRIDGE OVERLAYS
- BRIDGE PAINTING
- PARAPET REPAIR



PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 5	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\020201-PO.DWG
LAYOUT NAME - 01
PLOT DATE : 7/6/2023 7:06 AM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN: 800 FT

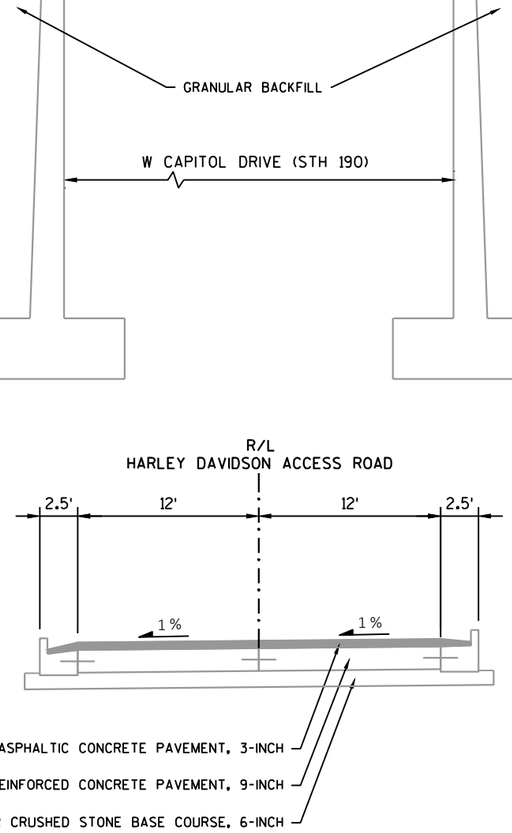
*0-11' FROM STA. 9"CF2"+71.59 TO 14"CF2"+96.11



STA. 9"CF2"+23.67 TO STA. 10"CF2"+50.48
STA. 27"CF2"+24.81 TO STA. 28"CF2"+86.06

EXISTING TYPICAL SECTION
CAPITOL DR FRONTAGE ROAD 2

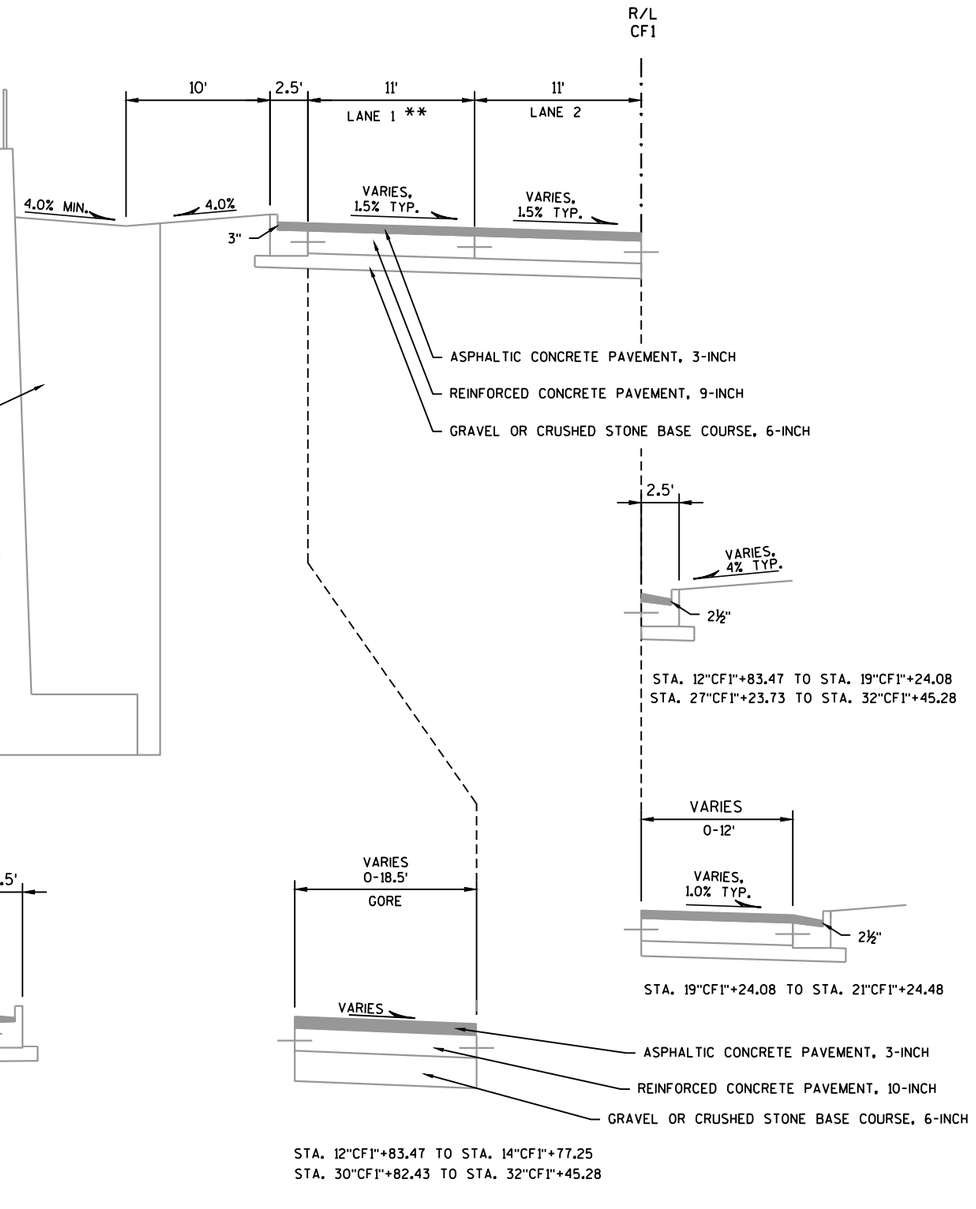
STA. 9"CF2"+23.67 TO STA. 18"CF2"+09.95
STA. 22"CF2"+03.06 TO STA. 28"CF2"+86.06



EXISTING TYPICAL SECTION
HARLEY DAVIDSON ACCESS ROAD

STA. 19"HAR"+38.03 TO STA. 19"HAR"+55.68
STA. 20"HAR"+44.04 TO STA. 20"HAR"+62.28

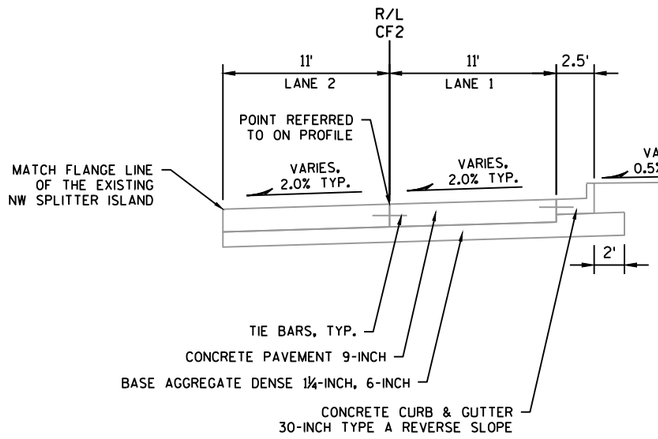
**0-11' FROM STA. 27"CF1"+72.44 TO STA. 30"CF1"+79.71

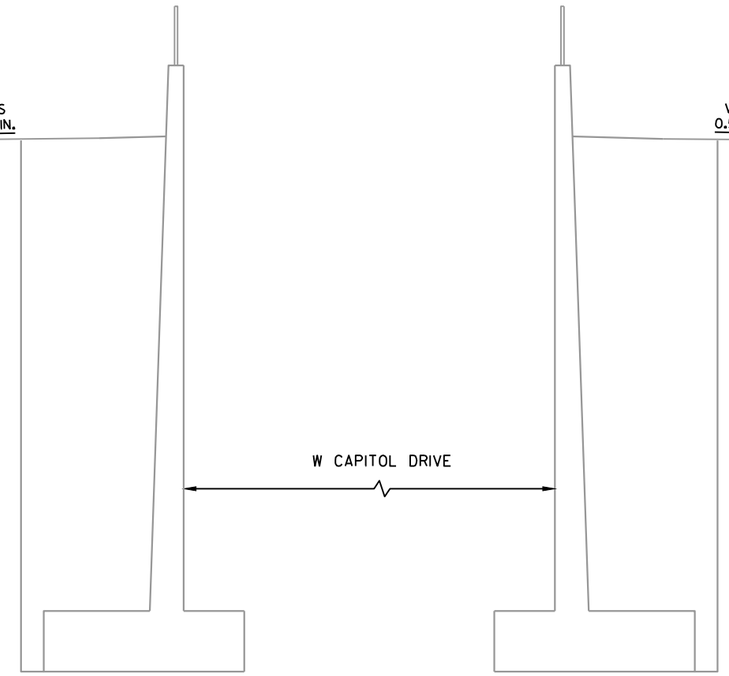


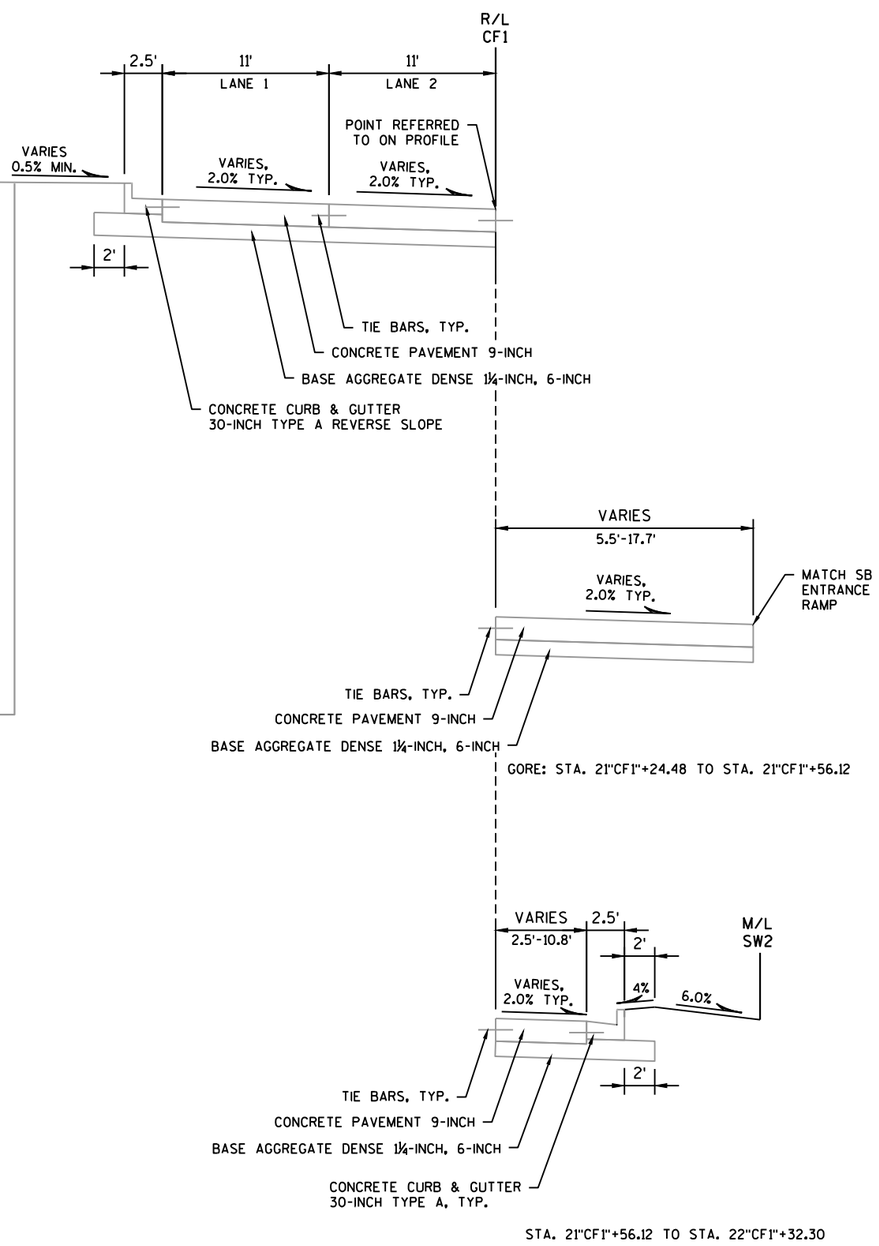
STA. 12"CF1"+83.47 TO STA. 14"CF1"+77.25
STA. 30"CF1"+82.43 TO STA. 32"CF1"+45.28

EXISTING TYPICAL SECTION
CAPITOL DR FRONTAGE ROAD 1

STA. 12"CF1"+83.47 TO STA. 21"CF1"+24.48
STA. 27"CF1"+23.73 TO STA. 32"CF1"+45.28



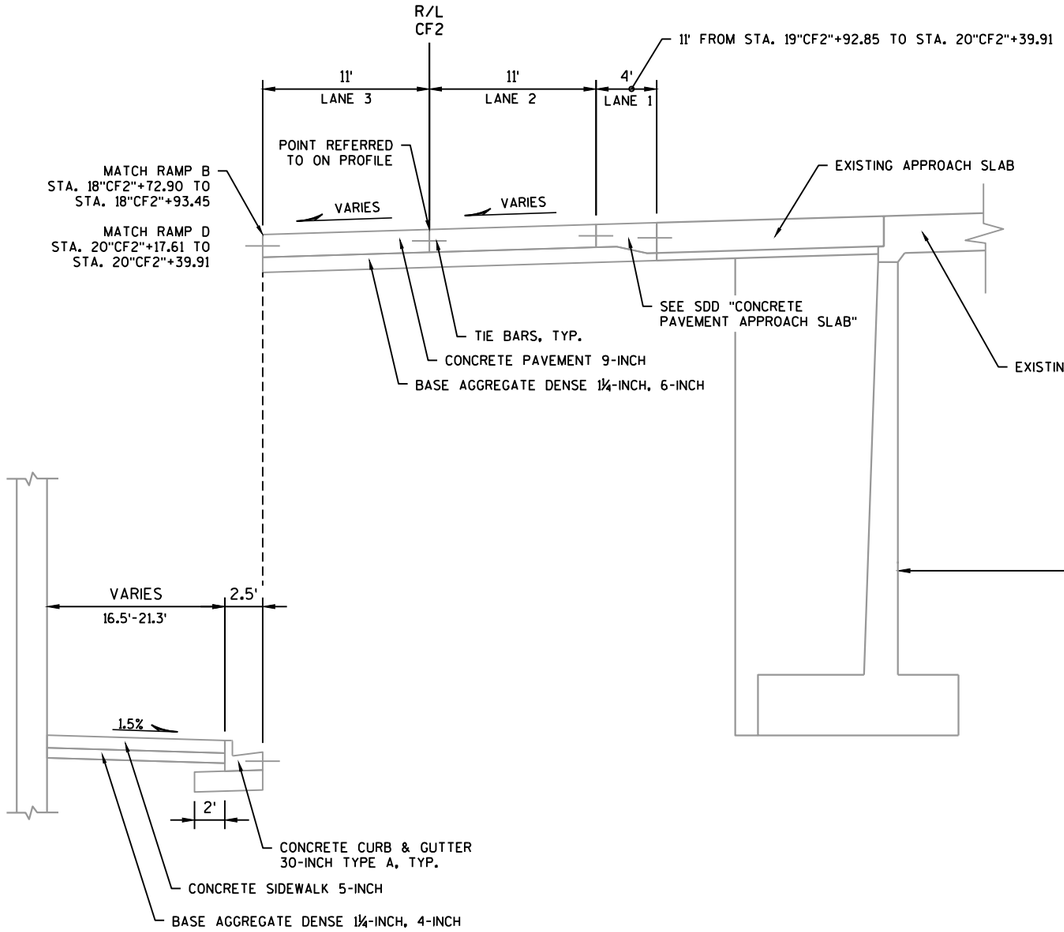




EXISTING TYPICAL SECTION
CAPITOL DR. FRONTAGE ROAD 2
STA. 18"CF2"+09.95 TO STA. 18"CF2"+72.90

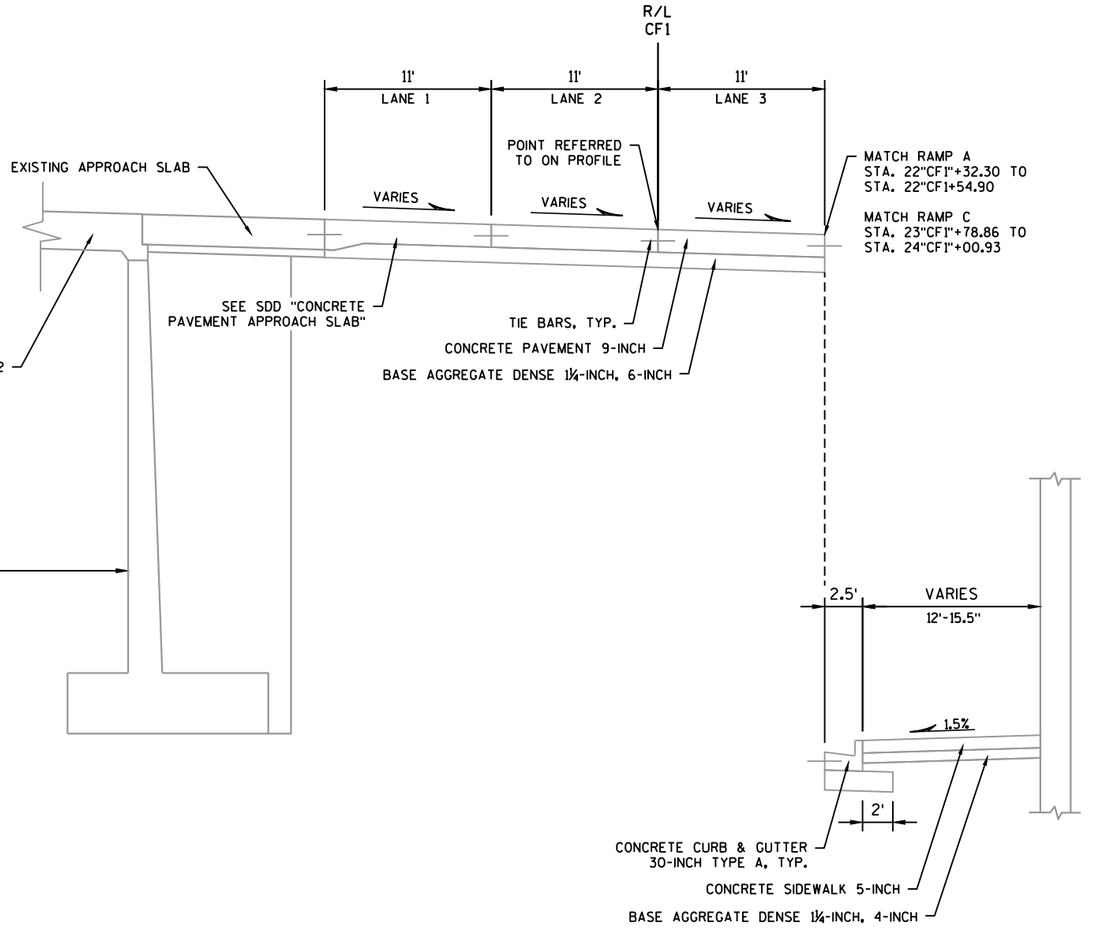
EXISTING TYPICAL SECTION
CAPITOL DR. FRONTAGE ROAD 1
STA. 21"CF1"+24.48 TO STA. 22"CF1"+32.30

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 7	E



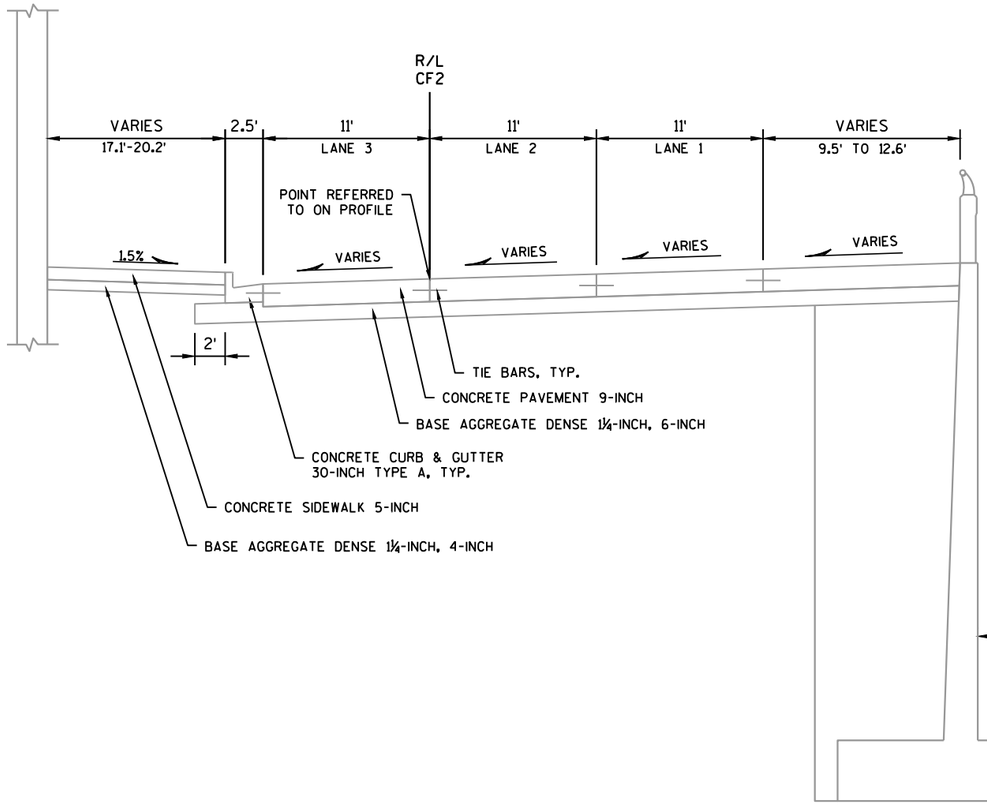
STA. 18"CF2"+93.45 TO STA. 19"CF2"+25.66
STA. 19"CF2"+92.85 TO STA. 20"CF2"+17.61

EXISTING TYPICAL SECTION
CAPITOL DR. FRONTAGE ROAD 2
STA. 18"CF2"+72.90 TO STA. 19"CF2"+25.66
STA. 19"CF2"+92.85 TO STA. 20"CF2"+39.91

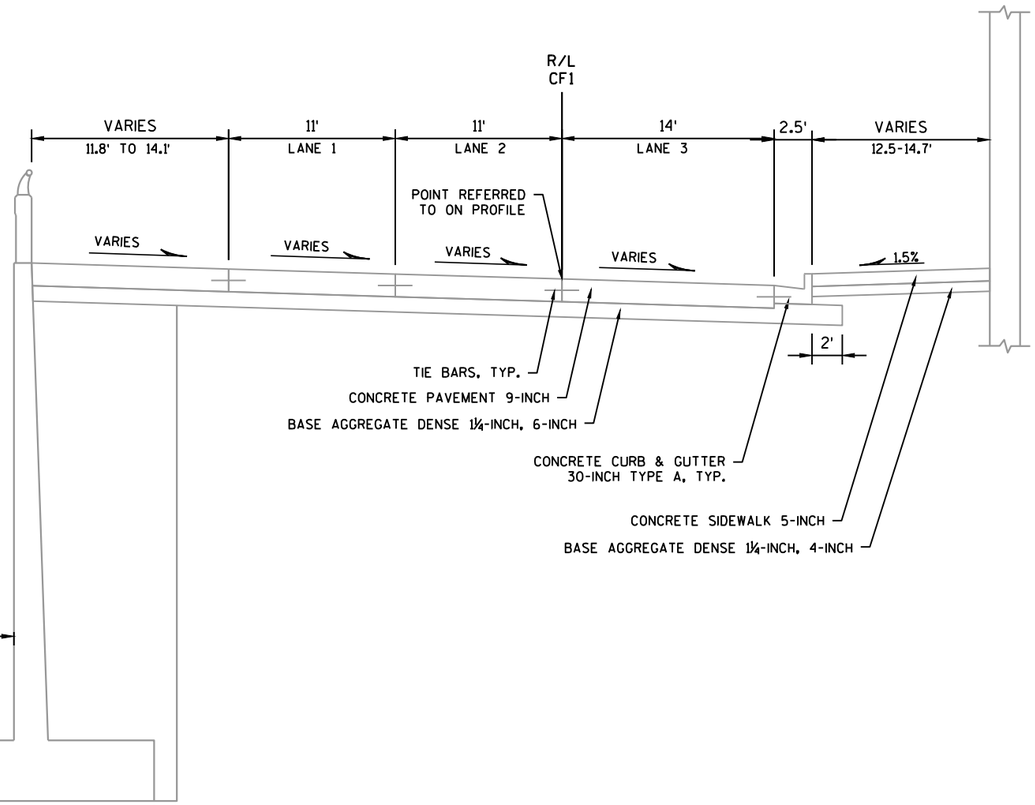


STA. 22"CF1"+54.91 TO STA. 22"CF1"+78.78
STA. 23"CF1"+45.81 TO STA. 23"CF1"+78.86

EXISTING TYPICAL SECTION
CAPITOL DR. FRONTAGE ROAD 1
STA. 22"CF1"+32.30 TO STA. 22"CF1"+78.78
STA. 23"CF1"+45.81 TO STA. 24"CF1"+00.93



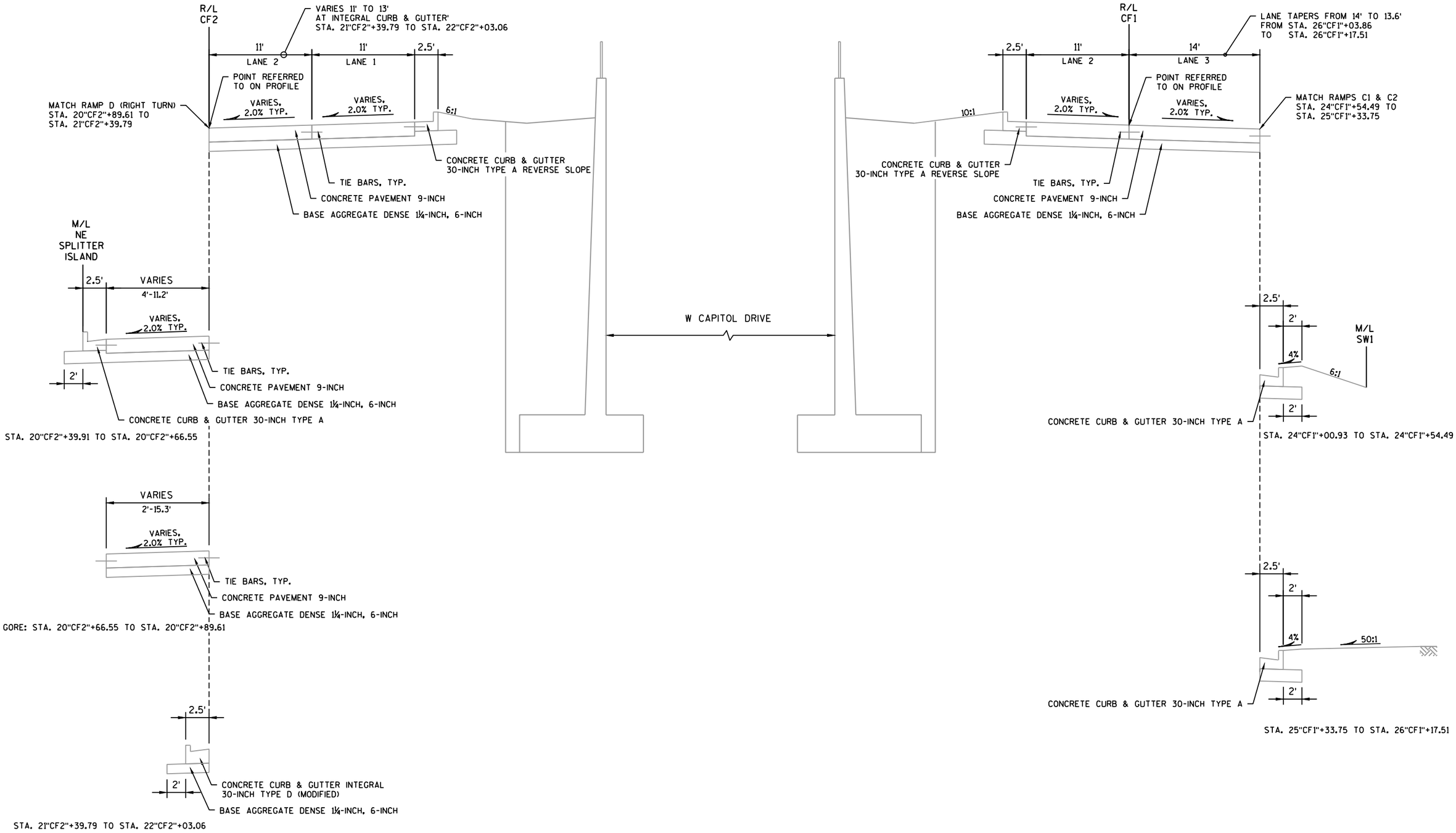
EXISTING TYPICAL SECTION
CAPITOL DR. FRONTAGE ROAD 2
STA. 19"CF2"+25.66 TO STA. 19"CF2"+92.85



EXISTING TYPICAL SECTION
CAPITOL DR. FRONTAGE ROAD 1
STA. 22"CF1"+78.78 TO STA. 23"CF1"+45.81

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 9	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\020301-TS.DWG
LAYOUT NAME - 04
PLOT DATE : 7/27/2023 1:05 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION

CAPITOL DR. FRONTAGE ROAD 2

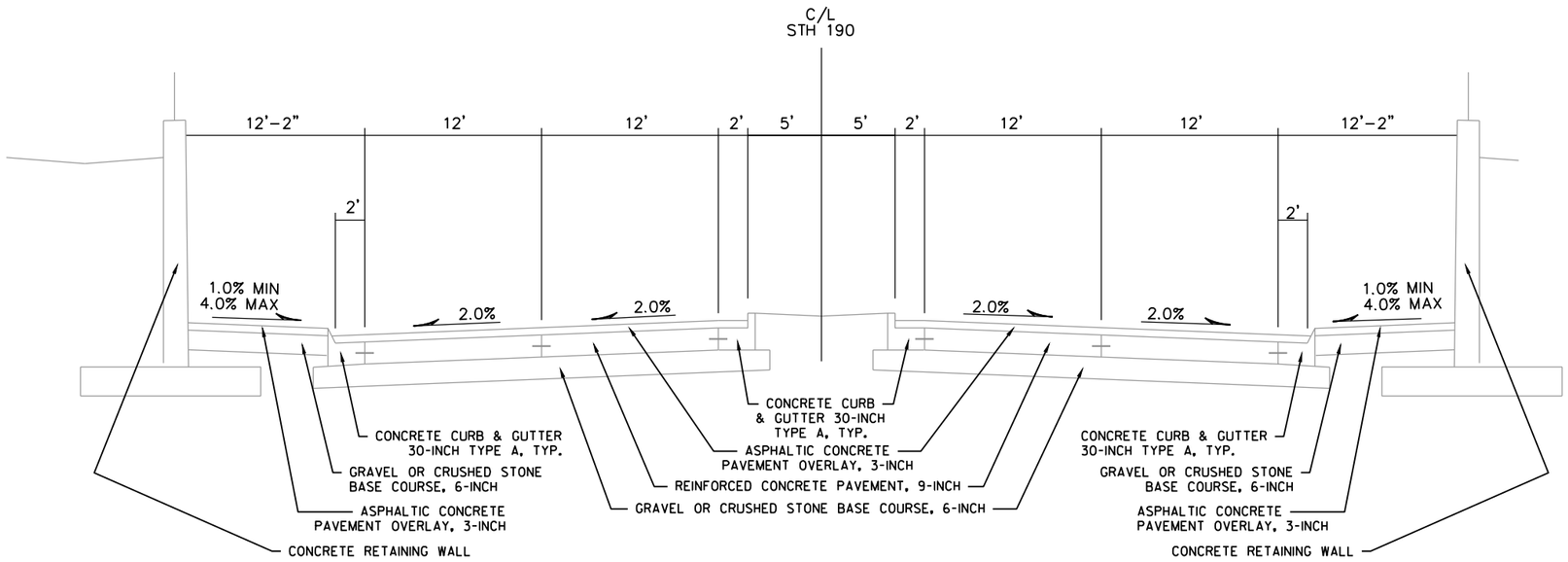
STA. 20"CF2"+39.91 TO STA. 22"CF2"+03.06

EXISTING TYPICAL SECTION

CAPITOL DR. FRONTAGE ROAD 1

STA. 24"CF1"+00.93 TO STA. 27"CF1"+23.73

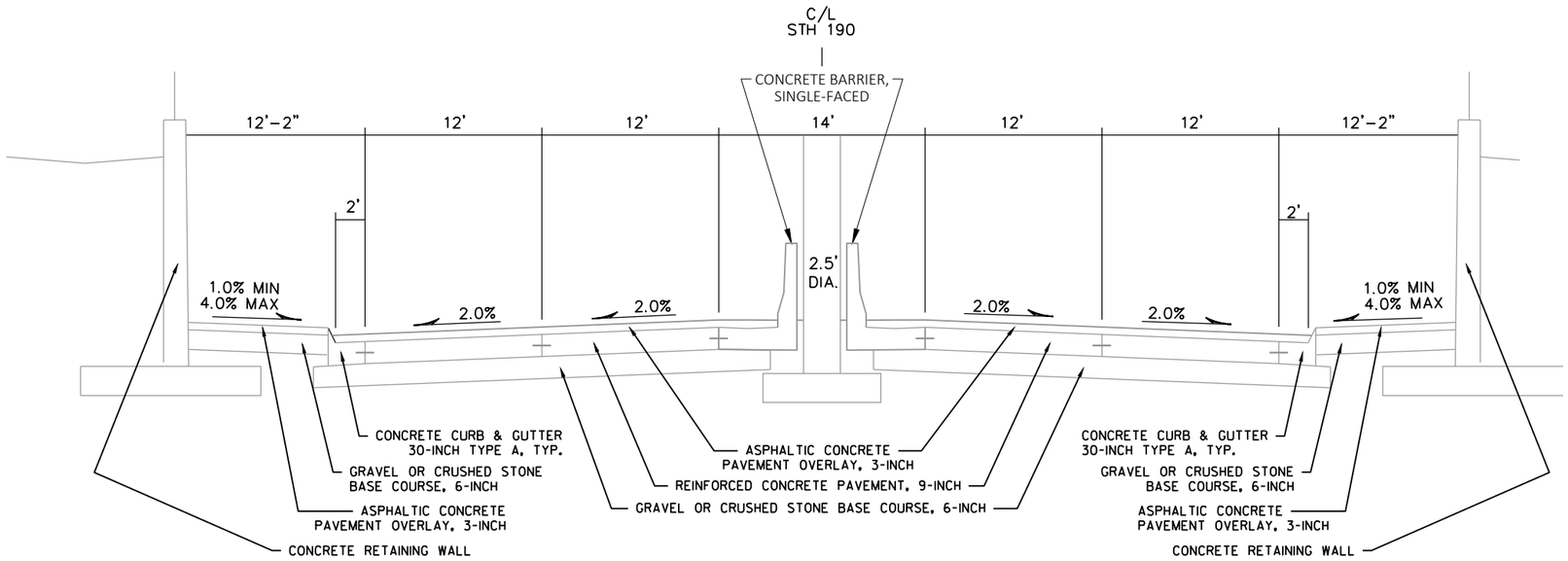
PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 10	E



STH 190 – MAINLINE

TYPICAL EXISTING SECTION

STA. 113+00 – STA. 117+00
STA. 122+11 – STA. 127+00

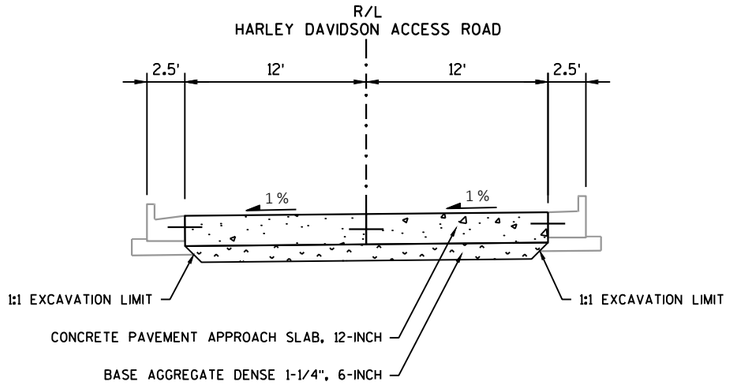


STH 190 – MAINLINE

TYPICAL EXISTING SECTION

STA. 117+00 – STA. 122+11

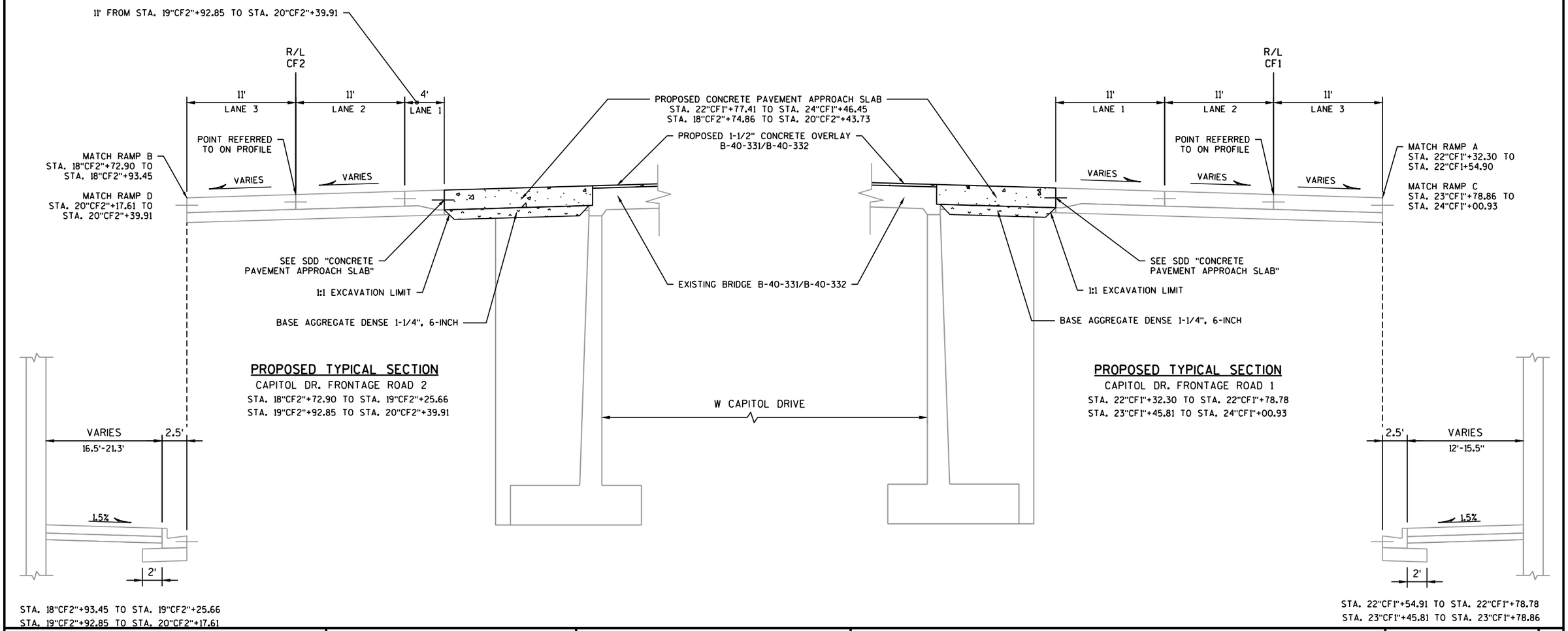
PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 11	E



PROPOSED TYPICAL SECTION

HARLEY DAVIDSON ACCESS ROAD

STA. 19"HAR"+38.03 TO STA. 19"HAR"+55.68
STA. 20"HAR"+44.04 TO STA. 20"HAR"+62.28



PROPOSED TYPICAL SECTION

CAPITOL DR. FRONTAGE ROAD 2

STA. 18"CF2"+72.90 TO STA. 19"CF2"+25.66
STA. 19"CF2"+92.85 TO STA. 20"CF2"+39.91

PROPOSED TYPICAL SECTION

CAPITOL DR. FRONTAGE ROAD 1

STA. 22"CF1"+32.30 TO STA. 22"CF1"+78.78
STA. 23"CF1"+45.81 TO STA. 24"CF1"+00.93

STA. 18"CF2"+93.45 TO STA. 19"CF2"+25.66
STA. 19"CF2"+92.85 TO STA. 20"CF2"+17.61

STA. 22"CF1"+54.91 TO STA. 22"CF1"+78.78
STA. 23"CF1"+45.81 TO STA. 23"CF1"+78.86

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTIONS	SHEET 12	E

2

LEGEND

REMOVE PAVMENT BUTT JOINTS

REMOVE PAVMENT MARKINGS

EP: 21+76.39"HAR"

HARLEY ACCESS RD

21+00"HAR"

20+00"HAR"

19+00"HAR"

12"CF2"

13"CF2"

14"CF2"

15"CF2"

16"CF2"

17"CF2"

18"CF2"

CAPITOL DR FRONTAGE RD 2

W CAPITOL DR.

WB CAPITOL DR

114"CA"

116"CA"

118"CA"

W CAPITOL DR.

EB CAPITOL DR

"HAR"+62.28
0.00'

"HAR"+62.27
-21.37'LT

"HAR"+62.30
21.32'RT

"HAR"+60.29
-21.36'LT

"HAR"+60.27
21.33'RT

"HAR"+44.00
-12.05'LT

"HAR"+44.09
11.81'RT

B-40-330

SEE BRIDGE PLANS FOR PARAPET DETAILS

"HAR"+55.39
-12.00'LT

"HAR"+55.89
11.95'RT

"HAR"+39.96
-21.71'LT

"HAR"+39.89
22.28'RT

"HAR"+37.98
-21.70'LT

"HAR"+38.08
22.28'RT

"HAR"+38.03
0.00'

16"CF1"

18"CF1"

20"CF1"

CAPITOL DR FRONTAGE RD 1

BP: 18+65.20"HAR"

N

MH

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	REMOVAL PLANS	SHEET 13	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\021101-RM.DWG
LAYOUT NAME - 01

PLOT DATE : 7/19/2023 12:03 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W - FOR
INFORMATIVE PURPOSES ONLY

CAPITOL DR FRONTAGE RD 2

CAPITOL DR FRONTAGE RD 1

WB CAPITOL DR

EB CAPITOL DR

18"CF2"
19"CF2"
20"CF2"
21"CF2"
22"CF2"
23"CF2"

"CF2"+74.86
27.46'RT

"CF2"+75.91
40.70'RT

"CF2"+43.73
27.01'RT

"CF2"+44.44
40.67'RT

"CF2"+29.13
40.87'RT

"CF2"+29.07
27.36'RT

"CF2"+96.37
41.00'RT

"CF2"+96.31
27.08'RT

SEE BRIDGE PLANS FOR PARAPET DETAILS

B-40-332

120"CA"

122"CA"

124"CA"

B-40-331

"CF1"+24.75
-25.79'LT

"CF1"+24.89
-39.27'LT

"CF1"+91.95
-25.08'LT

"CF1"+92.10
-39.34'LT

"CF1"+77.33
-39.14'LT

"CF1"+77.41
-25.91'LT

"CF1"+45.24
-39.41'LT

"CF1"+46.45
-24.90'LT

SEE BRIDGE PLANS FOR PARAPET DETAILS

22"CF1"

24"CF1"

26"CF1"

B-40-333

B-40-334

235

234

233

232

MH

HW

LEGEND

REMOVE PAVMENT BUTT JOINTS

REMOVE PAVMENT MARKINGS

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	REMOVAL PLANS	SHEET 14	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\021101-RM.DWG
LAYOUT NAME - 02

PLOT DATE : 7/19/2023 12:04 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

EP: 21+76.39

HARLEY ACCESS RD

21"HAR"

20"HAR"

19"HAR"

CAPITOL DR FRONTAGE RD 2

WB CAPITOL DR

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

13"CF2"

14"CF2"

15"CF2"

16"CF2"

17"CF2"

18"CF2"

"HAR"+62.28
0.00'

"HAR"+62.27
-21.37'LT

"HAR"+62.30
21.32'RT

"HAR"+60.29
-21.36'LT

"HAR"+60.27
21.33'RT

"HAR"+44.00
-12.05'LT

"HAR"+44.09
11.81'RT

SEE BRIDGE PLANS FOR PARAPET DETAILS

B-40-330

115"CA"

116"CA"

117"CA"

118"CA"

119"CA"

120"CA"

BEGIN CONSTRUCTION
STA 117+09 "CA"

"HAR"+55.39
-12.00'LT

"HAR"+55.89
11.95'RT

"HAR"+39.96
-21.71'LT

"HAR"+39.89
22.28'RT

"HAR"+37.98
-21.70'LT

"HAR"+38.08
22.28'RT

"HAR"+38.03
0.00'

17"CF1"

18"CF1"

19"CF1"

20"CF1"

21"CF1"

22"CF1"

BP: 18+65.20

SIGN

N

LEGEND

- CONCRETE PAVEMENT APPROACH SLAB
- CONCRETE DECK OVERLAY
- BRIDGE PAINTING

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 15	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\021201-PD.DWG
LAYOUT NAME - 01-pd

PLOT DATE : 7/6/2023 7:18 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

END PROJECT 1100-20-74
STA 234+75

235

EXISTING R/W - FOR
INFORMATIVE PURPOSES ONLY

N

17"CF2"
18"CF2"
19"CF2"
21"CF2"
22"CF2"

CAPITOL DR FRONTAGE RD 2

B-40-331
B-40-332

118"CA"
119"CA"
120"CA"
122"CA"
123"CA"
124"CA"

SEE BRIDGE PLANS FOR PARAPET DETAILS

WB CAPITOL DR

EB CAPITOL DR

END CONSTRUCTION
STA 122+06 "CA"

21"CF1"
22"CF1"
23"CF1"
25"CF1"
26"CF1"

CAPITOL DR FRONTAGE RD 1

B-40-333
B-40-334

BEGIN PROJECT 1100-20-74
STA 232+43

232

SB IH 41

NB IH 41

LEGEND

- CONCRETE PAVEMENT APPROACH SLAB
- CONCRETE DECK OVERLAY
- BRIDGE PAINTING

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 16 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\021201-PD.DWG
LAYOUT NAME - 02-pd

PLOT DATE : 7/6/2023 7:19 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

EXISTING R/W - FOR INFORMATIVE PURPOSES ONLY

N

17"CF2"
18"CF2"
19"CF2"
20"CF2"
21"CF2"
22"CF2"

CAPITOL DR FRONTAGE RD 2

"CF2"+74.86
27.46'RT

"CF2"+29.07
27.36'RT

"CF2"+96.31
27.08'RT

"CF2"+43.73
27.01'RT

"CF2"+44.44
40.67'RT

"CF2"+75.91
40.70'RT

"CF2"+29.13
40.87'RT

"CF2"+96.37
41.00'RT

"CF2"+23.79
40.62'RT

"CF2"+06.48
40.66'RT

B-40-331

B-40-332

SEE BRIDGE PLANS FOR PARAPET DETAILS

SEE BRIDGE PLANS FOR PARAPET DETAILS

118"CA"
119"CA"
120"CA"
121"CA"
122"CA"
123"CA"
124"CA"

WB CAPITOL DR

END CONSTRUCTION
STA 122+06 "CA"

EB CAPITOL DR

"CF1"+14.70
-39.25'LT

"CF1"+98.57
-39.34'LT

"CF1"+77.33
-39.14'LT

"CF1"+24.89
-39.27'LT

"CF1"+92.10
-39.34'LT

"CF1"+45.24
-39.41'LT

"CF1"+77.41
-25.91'LT

"CF1"+24.75
-25.79'LT

"CF1"+91.95
-25.08'LT

"CF1"+46.45
-24.90'LT

21"CF1"
22"CF1"
23"CF1"
24"CF1"
25"CF1"
26"CF1"

CAPITOL DR FRONTAGE RD 1

235
234
233
232

SB IH 41

NB IH 41

LEGEND

- CONCRETE PAVEMENT APPROACH SLAB
- CONCRETE DECK OVERLAY
- BRIDGE PAINTING

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 17	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\021201-PD.DWG
LAYOUT NAME - 03-pd

PLOT DATE : 7/6/2023 7:20 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

12"CF2"
13"CF2"
14"CF2"
15"CF2"
16"CF2"
17"CF2"
CAPITOL DR FRONTAGE RD 2
ASPHALT
W CAPITOL DR
WB CAPITOL DR
114"CA"
115"CA"
116"CA"
117"CA"
EB CAPITOL DR
HARLEY ACCESS RD
BEGIN CONSTRUCTION
STA 117"CA"+09.18
X = 565,895.85
Y = 317,944.74
118"CA"
119"CA"
B-40-330
16"CF1"
17"CF1"
18"CF1"
19"CF1"
20"CF1"
21"CF1"
CAPITOL DR FRONTAGE RD 1
INL
MH
SIGN
W
D

LEGEND

INLET PROTECTION

D PROTECTION TYPE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 18	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\022001-EC.DWG
LAYOUT NAME - 01

PLOT DATE : 6/28/2023 3:25 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

END PROJECT
STA 234+75.48
X = 566,280.78
Y = 318,081.85

EXISTING R/W - FOR
INFORMATIVE PURPOSES ONLY

N

CAPITOL DR FRONTAGE RD 2

WB CAPITOL DR

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

B-40-331

B-40-332

B-40-333

B-40-334

END CONSTRUCTION
STA 122"CA"+05.67
X = 566,390.89
Y = 317,976.65

BEGIN PROJECT
STA 232+43.59
X = 566,318.44
Y = 317,853.03

17"CF2" 18"CF2" 19"CF2" 20"CF2" 21"CF2" 22"CF2"

119"CA" 120"CA" 121"CA" 122"CA" 123"CA" 124"CA"

21"CF1" 22"CF1" 23"CF1" 24"CF1" 25"CF1" 26"CF1"

235 234 233 232

LEGEND

INLET PROTECTION

D PROTECTION TYPE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 19	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\022001-EC.DWG
LAYOUT NAME - 02

PLOT DATE : 6/28/2023 3:26 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

1 STOP R1-1 CROSS TRAFFIC DOES NOT STOP W4-4P MOVE

2 STOP R1-1 CROSS TRAFFIC DOES NOT STOP W4-4P ESTR

W CAPITOL DR

3 REMOVE STOP HERE ON RED R10-6(2S) TOP OF WALL PARAPET REUSE MOUNTING BRACKET & POST

4 REMOVE STOP R1-1F (3)

5 W5-52L(2S) TOP OF WALL PARAPET REUSE MOUNTING BRACKET & POST

15 REMOVE STOP R1-1F(3) TOP OF WALL PARAPET REUSE MOUNTING BRACKET & POST

WRONG WAY R5-1A ON COLUMN ESTR

IH 41 NB

DO NOT ENTER R5-1 ESTR

11 STOP R1-1F(3) ON S.P.

14 REMOVE ONE WAY R6-2R(2S)

13 STOP R1-1F(3) S.P.

CEMETERY

N

W CAPITOL DR

WRONG WAY R5-1A ON COLUMN ESTR

WEST ALTERNATE 190 WEST ALTERNATE 94 BUSINESS

10 REMOVE WEST ALTERNATE 190 WEST ALTERNATE 94 BUSINESS J3-2(2S)

12 REMOVE STOP HERE ON RED R10-6R(2S) ON SAME POST WITH J3-2

ONE WAY R6-2R S.P. ESTR

STOP R1-1F

STOP HERE ON RED R10-6 ESTR

DO NOT ENTER R5-1 ESTR

7 REMOVE STOP R1-1F (3)

8 W5-52L(2S) TOP OF WALL PARAPET REUSE MOUNTING BRACKET & POST

IH 41 SB

STAY IN LANE R4-9

6 REMOVE STAY IN LANE

9 REMOVE NORTH ALTERNATE 41 45 BUSINESS J3-1(2S)

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

SIGNING COORDINATOR	COUNTIES	PHONE #
JENNY BUCKETT	MILWAUKEE, KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
CHUCK SALDIVAR	RACINE, WALWORTH, WAUKESHA	414-750-1682

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

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

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

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

BOX OUT OR CORING OF CONCRETE SIGN POSTS IS INCIDENTAL TO THE POST

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 20 E

2

2

LEGEND

1. MARKING LINE EPOXY 4-INCH, WHITE
2. MARKING LINE EPOXY 6-INCH, WHITE
3. MARKING LINE EPOXY 6-INCH, YELLOW
4. MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
5. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
6. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
7. MARKING STOP LINE EPOXY 18-INCH
8. MARKING YIELD LINE EPOXY 18-INCH
9. MARKING ARROW EPOXY TYPE 1
10. MARKING ARROW EPOXY TYPE 2
11. MARKING ARROW EPOXY TYPE 3
12. MARKING ARROW EPOXY TYPE 6
13. MARKING WORDS EPOXY
14. MARKING CURB EPOXY, YELLOW
15. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH, WHITE DASHED (12.5' LINE AND 37.5' SKIP)
16. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE DASHED (12.5' LINE AND 37.5' SKIP) LAGGED BY MARKING LINE GROOVED BLACK EPOXY 6-INCH, DASHED (12.5' LINE)
17. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
18. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE DASHED (2' LINE AND 6' SKIP)

2

2

N

12"CF2"
13"CF2"
14"CF2"
15"CF2"
16"CF2"
17"CF2"
CAPITOL DR FRONTAGE RD 2
CAPITOL DR
ASPHALT
21"HAR"
WB CAPITOL DR
W CAPITOL DR
114"CA"
115"CA"
116"CA"
117"CA"
EB CAPITOL DR
W CAPITOL DR
20"HAR"
118"CA"
119"CA"
HARLEY ACCESS RD
B-40-330
4
7
7
16"CF1"
17"CF1"
18"CF1"
19"CF1"
20"CF1"
21"CF1"
CAPITOL DR
19"HAR"
MH
OUT
SS
OHL
UP
JP

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET 22	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\024501-PM.DWG
LAYOUT NAME - 01

PLOT DATE : 7/19/2023 9:42 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

EXISTING R/W - FOR INFORMATIVE PURPOSES ONLY

CAPITOL DR FRONTAGE RD 2

17"CF2" 18"CF2" 19"CF2" 20"CF2" 21"CF2" 22"CF2"

WB CAPITOL DR

119"CA" 120"CA" 121"CA" 122"CA" 123"CA" 124"CA"

B-40-331 B-40-332

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

21"CF1" 22"CF1" 23"CF1" 24"CF1" 25"CF1" 26"CF1"

B-40-333 B-40-334

ONLY

234

232

SB IH 41

NB IH 41

MH

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS	SHEET 23	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\024501-PM.DWG
LAYOUT NAME - 02

PLOT DATE : 7/19/2023 9:42 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

HARLEY ACCESS RD

CAPITOL DR FRONTAGE RD 2

WB CAPITOL DR

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

12"CF2"
13"CF2"
14"CF2"
15"CF2"
16"CF2"
17"CF2"
21"HAR"
"CA"+39.18
-30.50'LT
114"CA"
115"CA"
116"CA"
117"CA"
20"HAR"
118"CA"
119"CA"
1
16"CF1"
17"CF1"
18"CF1"
19"CF1"
20"CF1"
21"CF1"
19"HAR"
"CA"+84.39
32.00'RT

MH
SS
OUT
EL
HW
JP

PAVEMENT MARKINGS GENERAL NOTES

15 REMOVE AND REPLACE CENTERLINE PAVEMENT MARKINGS DAMAGED DURING STAGING. TO BE DETERMIND BY THE ENGINEER IN THE FIELD.

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS - CAPITOL DRIVE	SHEET 24	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\024502-PM.DWG
LAYOUT NAME - 03

PLOT DATE : 7/19/2023 9:43 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W - FOR
INFORMATIVE PURPOSES ONLY

17"CF2"
18"CF2"
19"CF2"
20"CF2"
21"CF2"
22"CF2"

CAPITOL DR FRONTAGE RD 2

234

WB CAPITOL DR

119"CA"
120"CA"
121"CA"
122"CA"
123"CA"
124"CA"

1

EB CAPITOL DR

"CA"+92.75
32.00'RT

CAPITOL DR FRONTAGE RD 1

21"CF1"
22"CF1"
23"CF1"
24"CF1"
25"CF1"
26"CF1"

232

SB IH 41

NB IH 41

PAVEMENT MARKINGS GENERAL NOTES

15 REMOVE AND REPLACE CENTERLINE PAVEMENT MARKINGS DAMAGED DURING STAGING. TO BE DETERMIND BY THE ENGINEER IN THE FIELD.

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS - CAPITOL DRIVE	SHEET 25	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\024502-PM.DWG
LAYOUT NAME - 04

PLOT DATE : 7/19/2023 9:44 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

TERY

EXISTING R/W - FOR
INFORMATIVE PURPOSES ONLY

23"CF2"
24"CF2"
25"CF2"
26"CF2"
27"CF2"
28"CF2"

CAPITOL DR FRONTAGE RD 2

MH

MH

WB CAPITOL DR

"CA"+91.59
30.50'LT

MH

126"CA"
125"CA"
124"CA"

1

MH

EB CAPITOL DR

"CA"+92.75
32.00'RT

27"CF1"
28"CF1"
29"CF1"
30"CF1"
31"CF1"
32"CF1"

CAPITOL DR FRONTAGE RD 1

PAVEMENT MARKINGS GENERAL NOTES

15 REMOVE AND REPLACE CENTERLINE PAVEMENT MARKINGS DAMAGED DURING STAGING. TO BE DETERMIND BY THE ENGINEER IN THE FIELD.

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	PAVEMENT MARKINGS - CAPITOL DRIVE	SHEET 26	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\024502-PM.DWG
LAYOUT NAME - 05

PLOT DATE : 7/19/2023 9:45 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

CLOSURE

MCTS — MILWAUKEE COUNTY TRANSIT SYSTEM BUS STOP

HARLEY-DAVIDSON PRODUCT DEVELOPMENT CENTER FARTHER NORTH

U-HAUL

SB IH 41

NB IH 41

MENOMONEE RIVER PARKWAY

N

CAPITOL DRIVE THROUGH LANES TO USE SINGLE LANE CLOSURES

WB CAPITOL DR

EB CAPITOL DR

MCTS

HARLEY ACCESS ROAD

MCTS

MCTS

CAPITOL DR FRONTAGE RD 2

WB CAPITOL DR

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

MENOMONEE RIVER

CAPITOL DRIVE THROUGH LANES TO USE SINGLE LANE CLOSURES

CURRIE PARK GOLF COURSE

PENZEYS SPICES

SB IH 41

NB IH 41

TRAFFIC CONTROL GENERAL NOTES

ADJUST THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES TO FIT FIELD CONDITIONS AND FOLLOW THE CURRENT EDITION OF THE WMUTCD AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

REMOVE OR COVER ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTTROL "IN USE", AS NEEDED AND APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS NOT APPROPRIATE TO THE TRAVEL PATH "IN USE".

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 OVERVIEW	SHEET 27	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025000-TC.DWG
LAYOUT NAME - 01

PLOT DATE : 7/28/2023 3:38 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN: 800 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP
- WORK AREA
- DIRECTION OF TRAFFIC

EB CAPITOL DR

WB CAPITOL DR

CAPITOL DR FRONTAGE RD 2

CAPITOL DR FRONTAGE RD 1

R3-2
24"X24"

19"CF1"

USE ADVANCE SIGNAGE FROM SDD: TRAFFIC CONTROL,
SHOULDER CLOSURE ON DIVIDED ROADWAY,
SPEEDS GREATER THAN 40 MPH

ONE WAY
R6-2R
24"X30"

117"CA"

15'

5'

20"HAR"

19"HAR"

21"HAR"

15"CF2"

A
R11-2B
48" X 30"
BRIDGE OUT
TYPE III BARRICADE

ONLY
R3-50R
30"X36"

15'

BP: 18+65.20

A
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ONLY
R3-50R
30"X36"

A
R11-2B
48" X 30"
BRIDGE OUT
TYPE III BARRICADE

20"CF1"

ONE WAY
R6-2R
24"X30"

M4-60L
30"X24"

B-40-330 :
SIDEWALK AND CURB REPAIR

M4-60R
30"X24"

16"CF2"

15'

USE ADVANCE SIGNAGE FROM SDD: TRAFFIC CONTROL,
SHOULDER CLOSURE ON DIVIDED ROADWAY,
SPEEDS GREATER THAN 40 MPH

R3-2
24"X24"

118"CA"

N

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET 28	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025001-TC.DWG
LAYOUT NAME - 01

PLOT DATE : 7/5/2023 7:55 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP
- WORK AREA
- DIRECTION OF TRAFFIC

EB CAPITOL DR

WB CAPITOL DR

CAPITOL DR FRONTAGE RD 2

CAPITOL DR FRONTAGE RD 1

R3-2
24"X24"

19'CF1"

15'CF2"

USE ADVANCE SIGNAGE FROM SDD: TRAFFIC CONTROL,
SHOULDER CLOSURE ON DIVIDED ROADWAY,
SPEEDS GREATER THAN 40 MPH

B-40-330 :
CONCRETE OVERLAY AND
BRIDGE PARAPET REPAIR

117"CA"

ONE WAY
R6-2R
24"X30"

A
R11-2B
48" X 30"
BRIDGE OUT
TYPE III BARRICADE

ONLY
R3-50R
30"X36"

15'

BP; 18+65.20

19"HAR"

20"HAR"

21"HAR"

16"CF2"

6'

A
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ONLY
R3-50R
30"X36"

A
R11-2B
48" X 30"
BRIDGE OUT
TYPE III BARRICADE

20"CF1"

ONE WAY
R6-2R
24"X30"

118"CA"

R3-2
24"X24"

USE ADVANCE SIGNAGE FROM SDD: TRAFFIC CONTROL,
SHOULDER CLOSURE ON DIVIDED ROADWAY,
SPEEDS GREATER THAN 40 MPH

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 29	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025002-TC.DWG
LAYOUT NAME - 01

PLOT DATE : 7/7/2023 8:07 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

I/‡	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA - PAINTING ONLY
	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE		TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

N

ROAD WORK AHEAD W20-1A

INL

INL

WB CAPITOL DR

SOUTH MO3-3 24"X12"

INTERSTATE 41

45

ONLY

SOUTH MO3-3 24"X12"

COVER TYPE I EXISTING "TO" SIGNS WITH "SOUTH" SIGNS

EB CAPITOL DR

ROAD WORK 500 FT W20-1G

PLACE ADVANCE SIGNAGE AT MEDIAN OPENING WEST OF INTERSECTION

WB CAPITOL DR

ROAD WORK AHEAD W20-1A

EB CAPITOL DR

SB 124TH STREET

NB 124TH STREET

MATCH LINE - N 124TH STREET

SB 124TH STREET

NB 124TH STREET

ROAD WORK AHEAD W20-1A

N

MATCH LINE - N 124TH STREET

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 30	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025003-TC.DWG
LAYOUT NAME - 01

PLOT DATE : 7/21/2023 6:46 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

I/‡	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA - PAINTING ONLY
➡	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
P	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
T	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE	—▫—	TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

N

WB CAPITOL DR

EB CAPITOL DR

9"CF2"

EXISTING PAVEMENT MARKING:
CAPITOL DRIVE LANE CLOSURES

STA. 10"CF1"+52

STA. 11"CF1"+27

25'

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES
FOR TRAFFIC CONTROL ON CAPITOL DRIVE

11"CF1"

12"CF1"

13"CF1

ADJUST AS NEEDED
TO BEST FIT STAGE
COORDINATE WITH
CAPITOL DRIVE
LANE CLOSURES

WO12-1D
48"X48"

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES
FOR TRAFFIC CONTROL ON CAPITOL DRIVE

STA. 12"CF1"+87

COVER TYPE I
EXISTING "TO" SIGNS
WITH "SOUTH" SIGNS

SOUTH MO3-3 24"X12"
INTERSTATE 41
45
SOUTH MO3-3 24"X12"
ONLY

COVER TYPE II
EXISTING "TO" SIGN
WITH "SOUTH" SIGN

SOUTH MO3-3 24"X12"
INTERSTATE 41
45

COVER TYPE II
EXISTING "TO" SIGN
WITH "SOUTH" SIGN

SOUTH MO3-3 24"X12"
INTERSTATE 41
45

COVER EXISTING SIGN PORTIONS:
"FOND DU LAC" - TYPE I
"INDUSTRIAL ACCESS" - TYPE II
"BUSINESS PARK" - TYPE II

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 31 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025003-TC.DWG
LAYOUT NAME - 02

PLOT DATE : 7/21/2023 6:47 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

I/‡	TYPE II / III BARRICADE	©	TYPE C WARNING LIGHT (STEADY BURN)
II/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA - PAINTING ONLY
	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE		TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

N

END ROAD WORK
G20-2A
48"X24"

9"CF2" 10"CF2" 11"CF2" 12"CF2" 13"CF2" 14"CF2"

CAPITOL DR FRONTAGE RD 2

25'

WB CAPITOL DR

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES FOR TRAFFIC CONTROL ON CAPITOL DRIVE

EXISTING PAVEMENT MARKING: CAPITOL DRIVE LANE CLOSURES

114"CA" 115"CA" 116"CA"

EB CAPITOL DR

25'

13"CF1" 14"CF1" 15"CF1" 16"CF1" 17"CF1" 18"CF1"

50'

CAPITOL DR FRONTAGE RD 1

STA. 12"CF1"+87

STA. 15"CF1"+06

STA. 17"CF1"+14

COVER TYPE II EXISTING "TO" SIGN WITH "SOUTH" SIGN

SOUTH
MO3-3
24"X12"

41
45

A
WO1-6
48" X 24"
TYPE III BARRICADE

ADJUST AS NEEDED TO BEST FIT STAGE COORDINATE WITH CAPITOL DRIVE LANE CLOSURES

WO12-1D
48"X48"

A
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 32 E

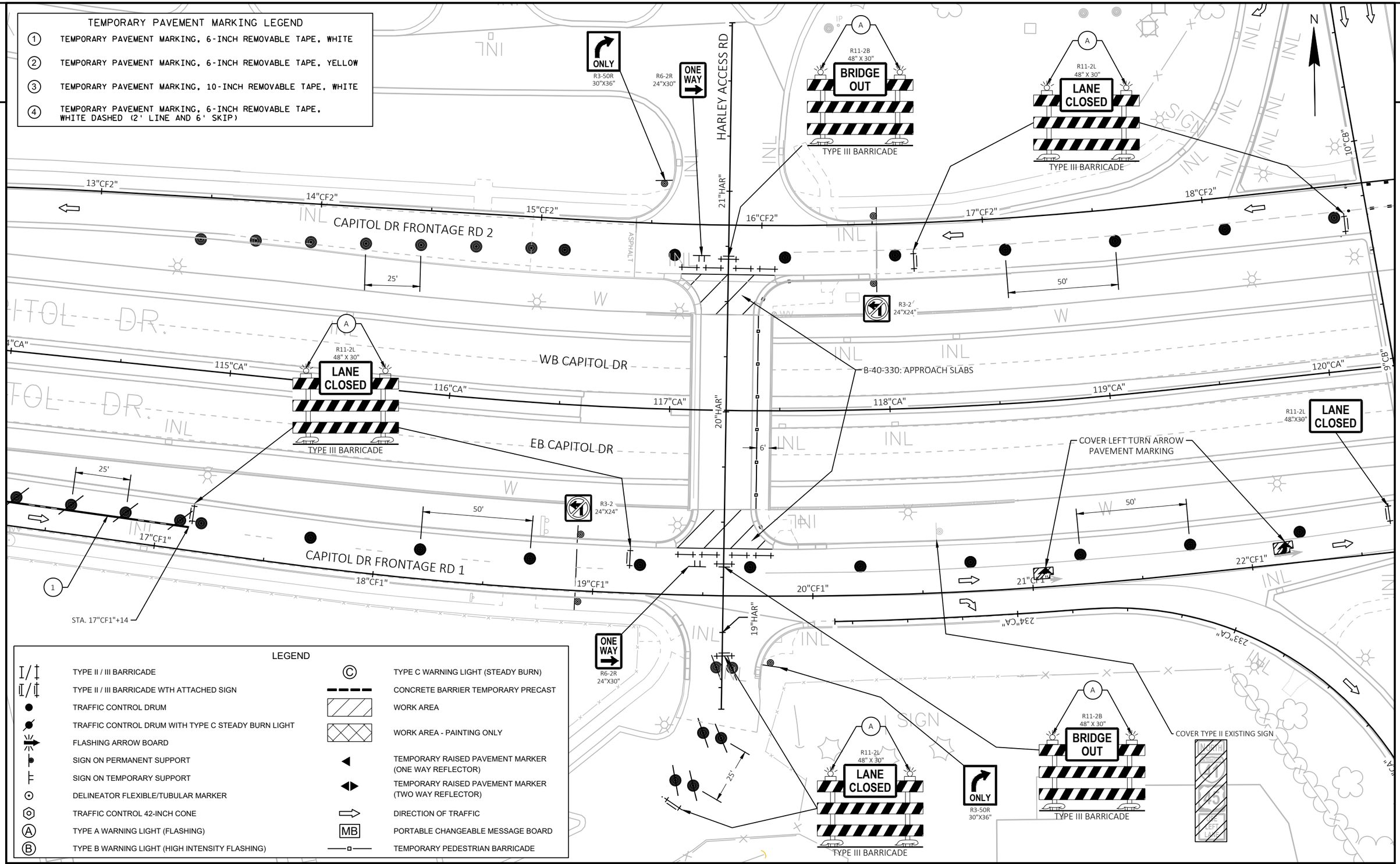
FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025003-TC.DWG
LAYOUT NAME - 03

PLOT DATE : 7/21/2023 6:48 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)



LEGEND

I/‡	TYPE II / III BARRICADE	©	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA - PAINTING ONLY
	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE		TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 33	E

2

A

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

PLACE AT THE START OF SB IH-41 EXIT RAMP

ROAD WORK AHEAD
W20-1A

END 270' LANE TAPER
STA. 18+65

REMOVE EXISTING SIGN & POST DURING PEDESTRIAN SHIFT

STOP HERE ON RED

M4-60R
30"X24"

REMOVE EXISTING SIGN & POST DURING PEDESTRIAN SHIFT

SOUTH
MILWAUKEE
41
45

M4-60L
30"X24"

COVER TYPE II SIGNS IN TWO RIGHT LANES

PLACE STRAIGHT ONLY DIRECTIONAL ARROW SIGN OVER FAR RIGHT LANE

ONLY

R3-5A
42"X48"

EXISTING R/W - FOR INFORMATIVE PURPOSES ONLY

CEMETERY

N

17"CF2"
18"CF2"
19"CF2"
20"CF2"
21"CF2"
22"CF2"
10"CB"
35"CD"

CAPITOL DR FRONTAGE RD 2

BEGIN 270' LANE TAPER & LANE SPLIT
STA. 21+35

50'

R3-2
24"X24"

LEAVE OPENING FOR CROSSING TRAFFIC FROM SB IH-41 EXIT RAMP

B-40-331

25'

B-40-332

REMOVE PAVEMENT MARKINGS CONFLICTING WITH TEMP PAVEMENT MARKINGS

REMOVE LEFT TURN ARROW PAVEMENT MARKING

WB CAPITOL DR

118"CA"
119"CA"
120"CA"
121"CA"
122"CA"
123"CA"
124"CA"
9"CB"
21"CC"

R11-2L
48"X30"

LANE CLOSED

R11-2R
48"X30"

RAMP CLOSED

COVER TYPE II EXISTING SIGN

EB CAPITOL DR

COVER LEFT TURN ARROW PAVEMENT MARKING

21"CF1"
22"CF1"
23"CF1"
24"CF1"
25"CF1"
26"CF1"
20"CC"

25'

CAPITOL DR FRONTAGE RD 1

234"CA"
233"CA"

50'

SEE STAGE 1C RAMP STAGING FOR IH-41 SB EXIT RAMP ON NEXT PAGES

COVER TYPE II EXISTING SIGN

NORTH
MILWAUKEE
41
45
USE LEFT LANE

5'

M4-60L
30"X24"

M4-60R
30"X24"

REMOVE EXISTING SIGN & POST DURING PEDESTRIAN SHIFT

REMOVE EXISTING SIGN & POST DURING PEDESTRIAN SHIFT

NORTH
MILWAUKEE
41
45

STOP HERE ON RED

COVER TYPE II SIGNS ABOVE LANES

PLACE STRAIGHT ONLY DIRECTIONAL ARROW SIGNS OVER RIGHT LANES

ONLY

R3-5A
42"X48"

ONLY

R3-5A
42"X48"

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK AREA - PAINTING ONLY
FLASHING ARROW BOARD	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
SIGN ON PERMANENT SUPPORT	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	TEMPORARY PEDESTRIAN BARRICADE
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 34	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025003-TC.DWG
LAYOUT NAME - 05
PLOT DATE : 7/21/2023 6:50 AM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

COVER TYPE II SIGNS
IN TWO RIGHT LANES

PLACE STRAIGHT ONLY
DIRECTIONAL ARROW SIGN
OVER FAR RIGHT LANE

R3-5A
42"X48"

EXISTING R/W - FOR
INFORMATIVE PURPOSES ONLY

W9-3A
48"X48"

SEE TEMPORARY
SIGNING PLANS

I-41 SOUTH
LEFT LANE

CAPITOL DR
RIGHT LANE

CENTER LANE
CLOSED
AHEAD

W20-3dA

REMOVE LEFT TURN ARROW
PAVEMENT MARKING

CAPITOL DR FRONTAGE RD 2

BEGIN 270' LANE TAPER & LANE SPLIT
STA. 21+35

REMOVE PAVEMENT MARKINGS
CONFLICTING WITH TEMP
PAVEMENT MARKINGS

COVER LEFT TURN ARROW
PAVEMENT MARKING

WB CAPITOL DR

EB CAPITOL DR

COVER TYPE II EXISTING SIGN

CAPITOL DR FRONTAGE RD 1

R11-2R
48" X 30"

RAMP
CLOSED

TYPE III BARRICADE

SEE STAGE 1C RAMP STAGING FOR
IH-41 SB EXIT RAMP ON NEXT PAGES

LEGEND

	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA - PAINTING ONLY
	FLASHING ARROW BOARD		
	SIGN ON PERMANENT SUPPORT		TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	SIGN ON TEMPORARY SUPPORT		TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	DELINEATOR FLEXIBLE/TUBULAR MARKER		
	TRAFFIC CONTROL 42-INCH CONE		DIRECTION OF TRAFFIC
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	MB	PORTABLE CHANGEABLE MESSAGE BOARD
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		TEMPORARY PEDESTRIAN BARRICADE

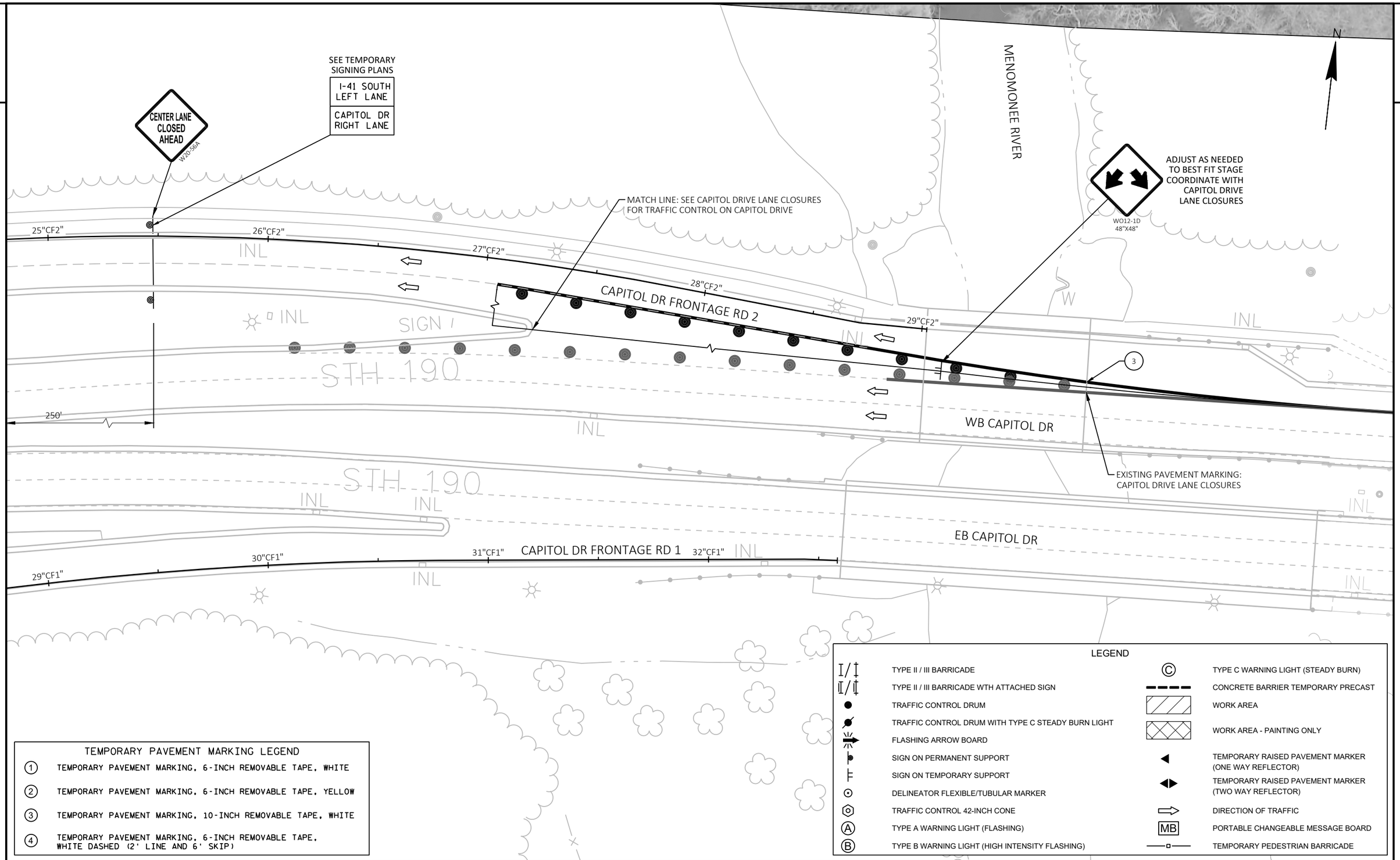
TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 35	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025003-TC.DWG
LAYOUT NAME - 06
PLOT DATE : 7/21/2023 6:51 AM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

LEGEND

I/‡	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA - PAINTING ONLY
	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE		TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 36	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025003-TC.DWG
LAYOUT NAME - 07

PLOT DATE : 7/21/2023 6:53 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MENOMONEE RIVER

ADJUST AS NEEDED TO BEST FIT STAGE COORDINATE WITH CAPITOL DRIVE LANE CLOSURES

WO12-1D
48"X48"

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES FOR TRAFFIC CONTROL ON CAPITOL DRIVE

623'

28"CF2"

CAPITOL DR FRONTAGE RD 2

29"CF2"

3

WB CAPITOL DR

EXISTING PAVEMENT MARKING:
CAPITOL DRIVE LANE CLOSURES

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1 32"CF1"

G20-2A
48"X24"

END
ROAD WORK

LEGEND

I/‡	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA - PAINTING ONLY
	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
⊢	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE	—▫—	TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 37	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025003-TC.DWG
LAYOUT NAME - 08
PLOT DATE : 7/21/2023 6:54 AM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

MENOMONEE RIVER PARKWAY

N

623'

WB CAPITOL DR

EB CAPITOL DR

INL

W

3

END
ROAD WORK
G20-2A
48"X24"

LEGEND

I/I	TYPE II / III BARRICADE	©	TYPE C WARNING LIGHT (STEADY BURN)
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA - PAINTING ONLY
	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE		TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 38	E

2

N

ROAD WORK 1500 FT
W20-1B

ROAD WORK AHEAD
W20-1A

WB CAPITOL DR

623'

500'

EB CAPITOL DR

INL

W

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

LEGEND

I/‡	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA - PAINTING ONLY
➡	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
●	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
┣	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE	—▫—	TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 39	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025003-TC.DWG
LAYOUT NAME - 10

PLOT DATE : 7/21/2023 6:56 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

218"CA" 219"CA" 220"CA" 221"CA" 222"CA" 223"CA" 224"CA"

CAPITOL SB ENTRANCE RAMP

INL INL INL INL

6"CC" 7"CC" 8"CC" 9"CC" 10"CC" 11"CC"

CAPITOL NB EXIT RAMP

ROAD WORK AHEAD W20-1A

W01-4R

350' 350'

LEGEND

I/‡	TYPE II / III BARRICADE	©	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		WORK AREA
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA - PAINTING ONLY
	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE	—▫—	TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 40	E

2

N

223"CA" 224"CA" 225"CA" 226"CA" 227"CA" 228"CA" 229"CA"

CAPITOL SB ENTRANCE RAMP

SB IH 41

NB IH 41

CAPITOL NB EXIT RAMP

10"CC" 11"CC" 12"CC" 13"CC" 14"CC" 15"CC" 16"CC"

350'

400'

25'

STA. 12"CC"+89

STA. 14"CC"+50

A

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

2

INL SIGN W

LEGEND

I/‡	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA - PAINTING ONLY
	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
‡	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE		TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 41	E

229"CA" 230"CA" 231"CA"

END ROAD WORK
G20-2A
48"X24"

SB IH 41

COVER TYPE II SIGNS ABOVE LANES

PLACE STRAIGHT ONLY DIRECTIONAL ARROW SIGNS OVER RIGHT LANES

ONLY ONLY
R3-5A 42"X48" R3-5A 42"X48"

R11-2L 48"X30" LANE CLOSED

9"CB"

23"CF1"

121"CA"

SEE STAGE 1C MAINLINE STAGING FOR PED STAGING ON PREVIOUS PAGES

24"CF1"

A R11-2R 48" X 30" RAMP CLOSED
TYPE III BARRICADE

NB IH 41

STA. 16"CC"+89

16"CC" 17"CC" 18"CC" 19"CC" 20"CC" 21"CC"

122"CA"

25' 25'

2

400'

A R11-2L 48" X 30" LANE CLOSED
TYPE III BARRICADE

COVER TYPE II EXISTING SIGN

25"CF1"

123"CA"

26"CF1"

CAPITOL DR FRONTAGE RD 1

EB CAPITOL D

WB CAPITOL

N

LEGEND

	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA - PAINTING ONLY
	FLASHING ARROW BOARD	◀	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	SIGN ON PERMANENT SUPPORT	◀▶	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE		TEMPORARY PEDESTRIAN BARRICADE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE
4. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE DASHED (2' LINE AND 6' SKIP)

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET 42	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025003-TC.DWG
LAYOUT NAME - 13
PLOT DATE : 7/21/2023 6:59 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD W20-1A

INL

INL

SEE DETOUR PLANS FOR
NB IH-41 CLOSURE ADVANCE SIGNAGE

WB CAPITOL DR

EB CAPITOL DR

ROAD WORK 500 FT W20-1D

MB

USE THE FOLLOWING PCMS TEXT

FRAME 1: RIGHT LANE

FRAME 2: I-41 SB ONLY

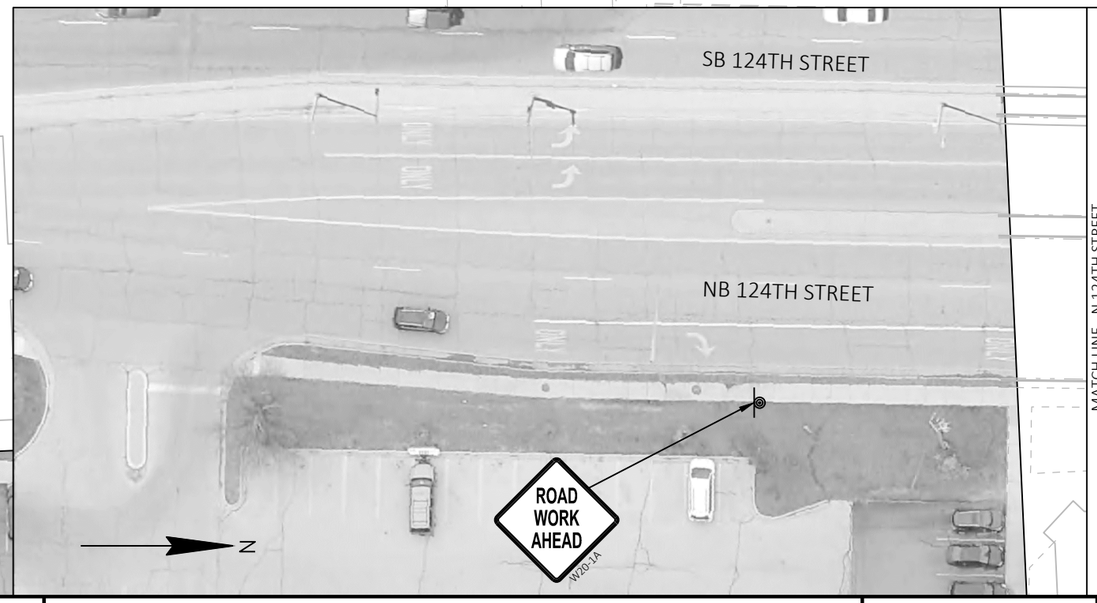
PLACE ADVANCE SIGNAGE AT MEDIAN
OPENING WEST OF INTERSECTION

ROAD WORK AHEAD W20-1A

SB 124TH STREET

NB 124TH STREET

MATCH LINE - N 124TH STREET



MATCH LINE - N 124TH STREET

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	
FLASHING ARROW BOARD	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	WORK AREA
DELINEATOR FLEXIBLE/TUBULAR MARKER	WORK AREA - PAINTING ONLY
TRAFFIC CONTROL 42-INCH CONE	DIRECTION OF TRAFFIC
TYPE A WARNING LIGHT (FLASHING)	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 43	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 01

PLOT DATE : 7/31/2023 9:11 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

N

WB CAPITOL DR

EB CAPITOL DR

STA. 10"CF1"+52

3

11"CF1"

INL

ROAD WORK 500 FT
W20-1D

COVER SIGN TYPE I
EXISTING "TO" SIGNS
WITH "SOUTH" SIGNS

SOUTH MO3-3 24"X12"
INTERSTATE 41
45
ONLY
SOUTH MO3-3 24"X12"

COVER SIGN TYPE II
EXISTING "TO" SIGN
WITH "SOUTH" SIGN

SOUTH MO3-3 24"X12"
INTERSTATE 41
45
ONLY
E11-1B 60"X18"

COVER SIGN TYPE II
EXISTING "TO" SIGN
WITH "SOUTH" SIGN

SOUTH MO3-3 24"X12"
INTERSTATE 41
45
ONLY
E11-1B 60"X18"

COVER EXISTING SIGN PORTIONS:
"FOND DU LAC" - TYPE I
"INDUSTRIAL ACCESS" - TYPE II
"BUSINESS PARK" - TYPE II

2

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	WORK AREA
SIGN ON PERMANENT SUPPORT	WORK AREA - PAINTING ONLY
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

N

WB CAPITOL DR

EB CAPITOL DR

EXISTING PAVEMENT MARKING: CAPITOL DRIVE LANE CLOSURES

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES FOR TRAFFIC CONTROL ON CAPITOL DRIVE

STA. 10"CF1"+52

STA. 11"CF1"+27

11"CF1"

12"CF1"

13"CF1"

9"CF2"

25'

25'

STA. 12"CF1"+87

ADJUST AS NEEDED TO BEST FIT STAGE COORDINATE WITH CAPITOL DRIVE LANE CLOSURES

WO12-1D
48"X48"

COVER SIGN TYPE II EXISTING "TO" SIGN WITH "SOUTH" SIGN

SOUTH
MO3-3
24"X12"

41
45

ONLY
E11-1B
60"X18"

COVER SIGN TYPE II EXISTING "TO" SIGN WITH "SOUTH" SIGN

SOUTH
MO3-3
24"X12"

41
45

ONLY
E11-1B
60"X18"

COVER EXISTING SIGN PORTIONS:
"FOND DU LAC" - TYPE I
"INDUSTRIAL ACCESS" - TYPE II
"BUSINESS PARK" - TYPE II

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 45	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 03

PLOT DATE : 7/31/2023 9:14 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

N

END ROAD WORK
G20-2A
48"X24"

9"CF2" 10"CF2" 11"CF2" 12"CF2" 13"CF2" 14"CF2"

WB CAPITOL DR — W CAPITOL DR — WB

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES FOR TRAFFIC CONTROL ON CAPITOL DRIVE

EXISTING PAVEMENT MARKING: CAPITOL DRIVE LANE CLOSURES

114"CA" 115"CA" 116"CA"

EB CAPITOL DR — W CAPITOL DR — EB

25' 25' 50'

13"CF1" 14"CF1" 15"CF1" 16"CF1" 17"CF1" 18"CF1"

3 1 2

STA. 12"CF1"+87

STA. 15"CF1"+06

STA. 17"CF1"+14

WO12-1D
48"X48"

A
WO1-6
48" X 24"
TYPE III BARRICADE

COVER SIGN TYPE II EXISTING "TO" SIGN WITH "SOUTH" SIGN
SOUTH
MO3-3
24"X12"
41
45
ONLY
E11-1B
60"X18"

A
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 46	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 04

PLOT DATE : 7/31/2023 9:15 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

2

2

N

HARLEY ACCESS RD

CAPITOL DR FRONTAGE RD 2

CAPITOL DR FRONTAGE RD 1

WB CAPITOL DR

EB CAPITOL DR

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-50R
30"X36"
ONLY

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

13"CF2"
14"CF2"
15"CF2"
16"CF2"
17"CF2"
18"CF2"
21"HAR"
20"HAR"
19"HAR"
115"CA"
116"CA"
117"CA"
118"CA"
119"CA"
120"CA"
10"CB"
6"CB"
17"CF1"
18"CF1"
19"CF1"
20"CF1"
21"CF1"
22"CF1"
25'
50'
B-40-330
STA. 17"CF1"+14
ASPHALT
INL
SIGN
W

COVER EXISTING SIGN - TYPE II

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 47	E

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

CAPITOL DR FRONTAGE RD 2

CAPITOL DR FRONTAGE RD 1

WB CAPITOL DR

EB CAPITOL DR

CEMETERY

SIGN I

EXISTING R/W - FOR INFORMATIVE PURPOSES ONLY

N

17"CF2" 18"CF2" 19"CF2" 20"CF2" 21"CF2" 22"CF2"

10"CP" 9"CF2" 35"CD"

118"CA" 119"CA" 120"CA" 121"CA" 122"CA" 123"CA" 124"CA"

21"CF1" 22"CF1" 23"CF1" 24"CF1" 25"CF1" 26"CF1"

235 234 233 232

21+00 20+00 18+00

25' 50'

B-40-331 B-40-332

COVER EXISTING SIGN - TYPE II

A

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 48	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 06

PLOT DATE : 7/31/2023 9:17 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

CEMETERY

SIGN I

COVER EXISTING SIGN - TYPE II

EXISTING R/W - FOR INFORMATIVE PURPOSES ONLY

A

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

CAPITOL DR FRONTAGE RD 2

WB CAPITOL DR

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

35"CD"

20"CF2"

21"CF2"

22"CF2"

23"CF2"

24"CF2"

25"CF2"

26"CF2"

25'

50'

21+00

122"CA"

23"CA"

124"CA"

125"CA"

126"CA"

20+00

25"CF1"

26"CF1"

27"CF1"

28"CF1"

29"CF1"

30"CF1"

INL

W

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

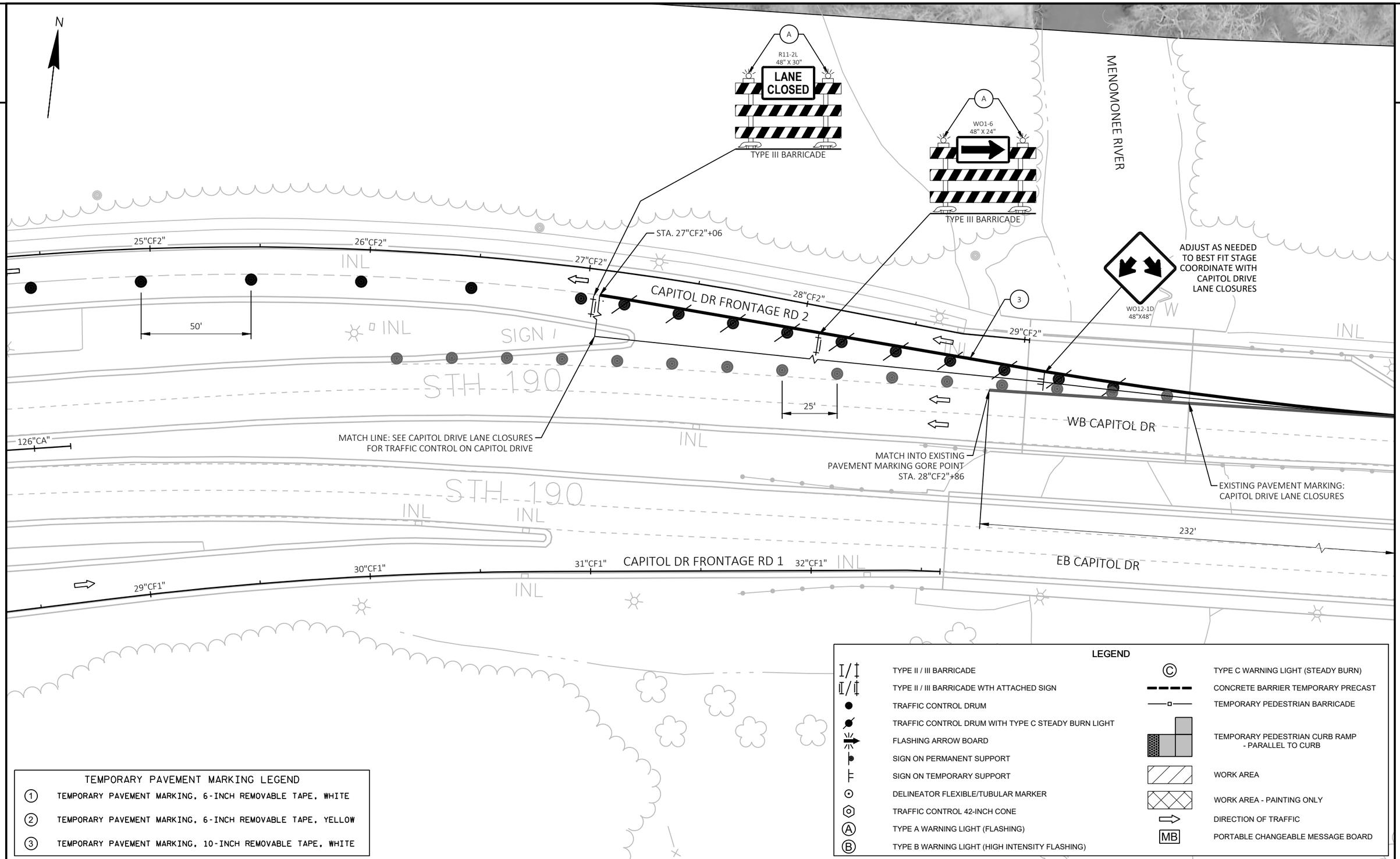
TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	
FLASHING ARROW BOARD	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	WORK AREA
DELINEATOR FLEXIBLE/TUBULAR MARKER	WORK AREA - PAINTING ONLY
TRAFFIC CONTROL 42-INCH CONE	DIRECTION OF TRAFFIC
TYPE A WARNING LIGHT (FLASHING)	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 49 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 07

PLOT DATE : 7/31/2023 9:18 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

I/‡	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	—▫—	TEMPORARY PEDESTRIAN BARRICADE
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
	FLASHING ARROW BOARD		WORK AREA
	SIGN ON PERMANENT SUPPORT		WORK AREA - PAINTING ONLY
	SIGN ON TEMPORARY SUPPORT	⇨	DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE		
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 50	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 08
PLOT DATE : 7/31/2023 9:20 AM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

N

A

WO1-6
48" X 24"

TYPE III BARRICADE

MENOMONEE RIVER

CAPITOL DR FRONTAGE RD 2

28"CF2"

29"CF2"

3

WO12-1D
48"X48"

ADJUST AS NEEDED TO BEST FIT STAGE COORDINATE WITH CAPITOL DRIVE LANE CLOSURES

COVER SIGN TYPE II
EXISTING "TO" SIGN
WITH "NORTH" SIGN

NORTH
MO3-1
24"X12"

INTERSTATE 41
45

ONLY
E11-1B
60"X18"

COVER SIGN TYPE I -
RIGHT ARROW OF MIDDLE LANE

ONLY

COVER SIGN TYPE II
EXISTING "TO" SIGN
WITH "NORTH" SIGN

NORTH
MO3-1
24"X12"

INTERSTATE 41
45

ONLY
E11-1B
60"X18"

INL

25'

WB CAPITOL DR

MATCH INTO EXISTING
PAVEMENT MARKING GORE POINT
STA. 28"CF2"+86

EXISTING PAVEMENT MARKING:
CAPITOL DRIVE LANE CLOSURES

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES
FOR TRAFFIC CONTROL ON CAPITOL DRIVE

232'

CAPITOL DR FRONTAGE RD 1

32"CF1"

EB CAPITOL DR

623'

END
ROAD WORK
G20-2A
48"X24"

COVER EXISTING SIGN PORTIONS:
"CHICAGO" - TYPE I
"INDUSTRIAL ACCESS" - TYPE II
"BUSINESS PARK" - TYPE II

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	WORK AREA
SIGN ON PERMANENT SUPPORT	WORK AREA - PAINTING ONLY
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 51	E

2

COVER SIGN TYPE II
EXISTING "TO" SIGN
WITH "NORTH" SIGN

NORTH
MO3-1
24"X12"

INTERSTATE 41

45

ONLY
E11-1B
60"X18"

COVER SIGN TYPE I -
RIGHT ARROW OF MIDDLE LANE

ONLY

MENOMONEE RIVER PARKWAY

623'

3

WB CAPITOL DR

EB CAPITOL DR

INL

W

END
ROAD WORK
G20-2A
48"X24"

COVER EXISTING SIGN PORTIONS:
"CHICAGO" - TYPE I
"INDUSTRIAL ACCESS" - TYPE II
"BUSINESS PARK" - TYPE II

COVER SIGN TYPE II
EXISTING "TO" SIGN
WITH "NORTH" SIGN

NORTH
MO3-1
24"X12"

INTERSTATE 41

45

ONLY
E11-1B
60"X18"

N

2

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 52	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 10

PLOT DATE : 7/31/2023 9:22 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

USE THE FOLLOWING PCMS TEXT

FRAME 1: RIGHT LANE

FRAME 2: I-41 NB ONLY

N

ROAD WORK 1500 FT W20-1B

ROAD WORK AHEAD W20-1A

MB

623'

500'

WB CAPITOL DR

EB CAPITOL DR

SEE DETOUR PLANS FOR SB IH-41 CLOSURE ADVANCE SIGNAGE

INL

W

CANOPY

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 53	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 11

PLOT DATE : 7/31/2023 9:23 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

4+00 5+00 6+00 7+00 8+00 9+00 10

CAPITOL SB ENTRANCE RAMP

SB IH 41

NL 218 219 220 221 222 223 224

INL INL INL

NB IH 41

6+00 7+00 8+00 9+00 10+00 11+00

CAPITOL NB EXIT RAMP

W20-4R

ROAD WORK AHEAD W20-1A

350' 350'

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	WORK AREA
SIGN ON PERMANENT SUPPORT	WORK AREA - PAINTING ONLY
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 54	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 12
PLOT DATE : 7/31/2023 9:24 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

CAPITOL SB ENTRANCE RAMP

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

SB IH 41

223 224 225 226 228

A

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

NB IH 41

STA. 12"CC"+89

25'

CAPITOL NB EXIT RAMP

10+00 11+00 12+00 13+00 14+00 15+00 16+00

2

STA. 14"CC"+50

350'

400'

INL SIGN W

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	WORK AREA
SIGN ON PERMANENT SUPPORT	WORK AREA - PAINTING ONLY
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 55	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 13

PLOT DATE : 7/31/2023 9:26 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

14+00 15+00 16+00 17+00 18+00

END ROAD WORK
G20-2A
48"X24"

SB IH 41

A
R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

228 229 230 231 232 233 234

NB IH 41

STA. 16"CC"+89

16+00 17+00 18+00 19+00 20+00 21+00

25'

2

400'

25'

A
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

A
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

25'

23"CF1"
121"CA"
24"CF1"
122"CA"
25"CF1"
123"CA"
26"CF1"

EB CAPITOL DR
WB CAPITOL DR

N

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	
SIGN ON PERMANENT SUPPORT	WORK AREA
SIGN ON TEMPORARY SUPPORT	WORK AREA - PAINTING ONLY
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
TRAFFIC CONTROL 42-INCH CONE	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 56	E

2

N

CAPITOL DR FRONTAGE RD 1

CAPITOL DR FRONTAGE RD 2

CAPITOL SB EXIT RAMP

CAPITOL NB ENTRANCE RAMP

SB IH 41

NB IH 41

25'

21"CF1"

22"CF1"

23"CF1"

24"CF1"

119"CA"

120"CA"

122"CA"

9"CF1"

17"CF2"

18"CF2"

18"CF2"

20"CF2"

10"CB"

11"CB"

12"CB"

13"CB"

50'

35"CD"

36"CD"

37"CD"

38"CD"

18+00

20+00

21+00

232

233

234

235

236

237

238

A

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

SIGN

INL

W

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	WORK AREA
SIGN ON PERMANENT SUPPORT	WORK AREA - PAINTING ONLY
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 57	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 15
PLOT DATE : 7/31/2023 9:28 AM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

N

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

A

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

A

WO1-6
48" X 24"

TYPE III BARRICADE

STA. 13"CB"+32

2

STA. 15"CB"+93

12"CB"
13"CB"
14"CB"
15"CB"
16"CB"
17"CB"
18"CB"

CAPITOL SB EXIT RAMP

260'

350'

SB IH 41

237
238
239
240
241
242

END ROAD WORK
G20-2A
48"X24"

NB IH 41

CAPITOL NB ENTRANCE RAMP

37"CD"
38"CD"
39"CD"
40"CD"
41"CD"
42"CD"

ENTRANCE RAMP

INL
SIGN
SIGN I
SIGN '

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 58	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 16
PLOT DATE : 7/31/2023 9:29 AM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

W01-4R

ROAD WORK AHEAD W20-1A

18"CB" 19"CB" 20"CB" 21"CB" 22"CB" 23"CB"

CAPITOL SB EXIT RAMP

SB IH 41

350' 350'

242 243 244 245 246 247 248

INL INL INL INL

NB IH 41

CAPITOL NB ENTRANCE RAMP

42"CD" 43"CD" 44"CD" 45"CD" 46"CD" 47"CD"

INL SIGN

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET 59	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025004-TC.DWG
LAYOUT NAME - 17

PLOT DATE : 7/31/2023 9:30 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

CLOSURE

MCTS — MILWAUKEE COUNTY TRANSIT SYSTEM BUS STOP

HARLEY-DAVIDSON PRODUCT DEVELOPMENT CENTER FARTHER NORTH

U-HAUL

SB IH 41

NB IH 41

MENOMONEE RIVER PARKWAY

N

CAPITOL DRIVE THROUGH LANES TO USE SINGLE LANE CLOSURES

WB CAPITOL DR

EB CAPITOL DR

MCTS

HARLEY ACCESS ROAD

CAPITOL DR FRONTAGE RD 2

CAPITOL DR FRONTAGE RD 1

MENOMONEE RIVER

CAPITOL DRIVE THROUGH LANES TO USE SINGLE LANE CLOSURES

PENZEYS SPICES

CURRIE PARK GOLF COURSE

2

TRAFFIC CONTROL GENERAL NOTES

ADJUST THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES TO FIT FIELD CONDITIONS AND FOLLOW THE CURRENT EDITION OF THE WMUTCD AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

REMOVE OR COVER ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTTROL "IN USE", AS NEEDED AND APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS NOT APPROPRIATE TO THE TRAVEL PATH "IN USE".

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 OVERVIEW	SHEET 60	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025000-TC.DWG
LAYOUT NAME - 02

PLOT DATE : 7/28/2023 3:38 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN: 800 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD WORK AHEAD W20-1A

INL

INL

WB CAPITOL DR

EB CAPITOL DR

ROAD WORK 500 FT W20-1G

PLACE ADVANCE SIGNAGE AT MEDIAN OPENING WEST OF INTERSECTION

SB 124TH STREET

NB 124TH STREET

ROAD WORK AHEAD W20-1A

MATCH LINE - N 124TH STREET

SB 124TH STREET

NB 124TH STREET

ROAD WORK AHEAD W20-1A

N

MATCH LINE - N 124TH STREET

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 61	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 01

PLOT DATE : 7/21/2023 11:59 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	
SIGN ON PERMANENT SUPPORT	WORK AREA
SIGN ON TEMPORARY SUPPORT	WORK AREA - PAINTING ONLY
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
TRAFFIC CONTROL 42-INCH CONE	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

N

WB CAPITOL DR

EB CAPITOL DR

9"CF2"

10"C

EXISTING PAVEMENT MARKING: CAPITOL DRIVE LANE CLOSURES

STA. 10"CF1"+52

STA. 11"CF1"+27

25'

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES FOR TRAFFIC CONTROL ON CAPITOL DRIVE

11"CF1"

12"CF1"

13"CF1"

ADJUST AS NEEDED TO BEST FIT STAGE COORDINATE WITH CAPITOL DRIVE LANE CLOSURES

W012-1D
48"X48"

STA. 12"CF1"+87

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES FOR TRAFFIC CONTROL ON CAPITOL DRIVE

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 62	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 02

PLOT DATE : 7/21/2023 12:00 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

N

END ROAD WORK
G20-2A
48"X24"

9"CF2" 10"CF2" 11"CF2" 12"CF2" 13"CF2" 14"CF2"

WB CAPITOL DR

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES FOR TRAFFIC CONTROL ON CAPITOL DRIVE

EXISTING PAVEMENT MARKING: CAPITOL DRIVE LANE CLOSURES

114"CA" 115"CA" 116"CA"

EB CAPITOL DR

25' 25' 50'

13"CF1" 14"CF1" 15"CF1" 16"CF1" 17"CF1" 18"CF1"

STA. 12"CF1"+87

STA. 15"CF1"+06

STA. 17"CF1"+14

ADJUST AS NEEDED TO BEST FIT STAGE COORDINATE WITH CAPITOL DRIVE LANE CLOSURES

WO12-1D
48"X48"

A
WO1-6
48" X 24"
TYPE III BARRICADE

A
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 63	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 03

PLOT DATE : 7/21/2023 12:02 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

N

HARLEY ACCESS RD

21"HAR"

20"HAR"

19"HAR"

CAPITOL DR FRONTAGE RD 2

WB CAPITOL DR

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

16"CF2"

17"CF2"

18"CF2"

115"CA"

116"CA"

117"CA"

118"CA"

119"CA"

120"CA"

B-40-330

25'

50'

17"CF1"

18"CF1"

19"CF1"

20"CF1"

21"CF1"

22"CF1"

10'

STA. 17"CF1"+14

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 64 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 04

PLOT DATE : 7/21/2023 12:04 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

USE SAFESPAN OR EQUIVALENT FOR PAINTING OPERATIONS OVER SIDEWALKS. MAINTAIN 8 FEET OF VERTICAL CLEARANCE OVER SIDEWALKS FOR PEDESTRIAN ACCESS.

COVER SIGN TYPE II

TEMPORARY SIDEWALK LIGHTING TO BE DEPLOYED DURING SAFESPAN USE

COVER SIGNS TYPE II IN ABOVE TWO LEFT LANES

PLACE STRAIGHT ONLY DIRECTIONAL ARROW SIGN OVER CENTER LANE

R3-5A 42"X48"

N

EXISTING R/W - FOR INFORMATIVE PURPOSES ONLY

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

R11-2R 48" X 30"

RAMP CLOSED

TYPE III BARRICADE

WB CAPITOL DR

EB CAPITOL DR

B-40-331

B-40-332

17"CF2" 18"CF2" 19"CF2" 20"CF2" 21"CF2" 22"CF2"

118"CA" 119"CA" 120"CA" 121"CA" 122"CA" 123"CA" 124"CA"

21"CF1" 22"CF1" 23"CF1" 24"CF1" 25"CF1" 26"CF1"

10"CB" 9"CF2"

25' 50' 50' 25'

235 234 233 232

35"CD"

21+00 20+00 18+00

COVER TYPE II SIGN ABOVE LEFT LANE

TEMPORARY SIDEWALK LIGHTING TO BE DEPLOYED DURING SAFESPAN USE

USE SAFESPAN OR EQUIVALENT FOR PAINTING OPERATIONS OVER SIDEWALKS. MAINTAIN 8 FEET OF VERTICAL CLEARANCE OVER SIDEWALKS FOR PEDESTRIAN ACCESS.

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 65	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 05

PLOT DATE : 7/21/2023 12:05 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

COVER SIGNS TYPE II IN ABOVE TWO LEFT LANES

PLACE STRAIGHT ONLY DIRECTIONAL ARROW SIGN OVER CENTER LANE

R3-5A
42"X48"

COVER SIGNS TYPE II

EXISTING R/W - FOR INFORMATIVE PURPOSES ONLY

CEMETERY

CAPITOL DR FRONTAGE RD 2

WB CAPITOL DR

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

SIGN 1

50'

R11-2R
48" X 30"
RAMP CLOSED

TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

COVERED LEFT TURN ARROW PAVEMENT MARKING TO REMAIN FROM PREVIOUS STAGES

END ROAD WORK
G20-2A
48"X24"

20"CF2" 21"CF2" 22"CF2" 23"CF2" 24"CF2" 25"CF2" 26"CF2"

35"CD"

21+00

122"CA" 123"CA" 124"CA" 125"CA" 126"CA"

20+00

25"CF1" 26"CF1" 27"CF1" 28"CF1" 29"CF1" 30"CF1"

N

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 66	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 06
PLOT DATE : 7/21/2023 12:07 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

A

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

N

MENOMONEE RIVER

ADJUST AS NEEDED TO BEST FIT STAGE COORDINATE WITH CAPITOL DRIVE LANE CLOSURES

WO12-1D
48"X48"

STA. 27"CF2"+06

25"CF2"

26"CF2"

27"CF2"

28"CF2"

29"CF2"

50'

25'

INL

SIGN

STH 190

CAPITOL DR FRONTAGE RD 2

COVERED LEFT TURN ARROW PAVEMENT MARKING TO REMAIN FROM PREVIOUS STAGES

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES FOR TRAFFIC CONTROL ON CAPITOL DRIVE

MATCH INTO EXISTING PAVEMENT MARKING GORE POINT STA. 28"CF2"+86

3

WB CAPITOL DR

EXISTING PAVEMENT MARKING: CAPITOL DRIVE LANE CLOSURES

126"CA"

232'

EB CAPITOL DR

29"CF1"

30"CF1"

31"CF1"

32"CF1"

CAPITOL DR FRONTAGE RD 1

END ROAD WORK
G20-2A
48"X24"

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	WORK AREA
SIGN ON PERMANENT SUPPORT	WORK AREA - PAINTING ONLY
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 67	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 07
PLOT DATE : 7/21/2023 12:08 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

N

A

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

MENOMONEE RIVER

WO12-1D
48"X48"

ADJUST AS NEEDED TO BEST FIT STAGE COORDINATE WITH CAPITOL DRIVE LANE CLOSURES

COVER SIGN TYPE II
EXISTING "TO" SIGN
WITH "NORTH" SIGN

NORTH

MO3-1
24"X12"

INTERSTATE 41

45

COVER SIGN TYPE II
EXISTING "TO" SIGN
WITH "NORTH" SIGN

NORTH

MO3-1
24"X12"

INTERSTATE 41

45

CAPITOL DR FRONTAGE RD 2

28"CF2"

29"CF2"

25'

WB CAPITOL DR

3

MATCH LINE: SEE CAPITOL DRIVE LANE CLOSURES FOR TRAFFIC CONTROL ON CAPITOL DRIVE

MATCH INTO EXISTING PAVEMENT MARKING GORE POINT STA. 28"CF2"+86

EXISTING PAVEMENT MARKING: CAPITOL DRIVE LANE CLOSURES

232'

CAPITOL DR FRONTAGE RD 1

32"CF1"

EB CAPITOL DR

623'

COVER EXISTING SIGN PORTIONS: "CHICAGO" - TYPE I

INL

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	WORK AREA
SIGN ON PERMANENT SUPPORT	WORK AREA - PAINTING ONLY
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 68	E

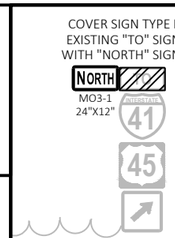
FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 08

PLOT DATE : 7/21/2023 12:10 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

COVER SIGN TYPE II
EXISTING "TO" SIGN
WITH "NORTH" SIGN



MENOMONEE RIVER PARKWAY

623'

3

WB CAPITOL DR

EB CAPITOL DR

COVER SIGN TYPE II
EXISTING "TO" SIGN
WITH "NORTH" SIGN



COVER EXISTING SIGN PORTIONS:
"CHICAGO" - TYPE I

N

2

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	WORK AREA
DELINEATOR FLEXIBLE/TUBULAR MARKER	WORK AREA - PAINTING ONLY
TRAFFIC CONTROL 42-INCH CONE	DIRECTION OF TRAFFIC
TYPE A WARNING LIGHT (FLASHING)	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 69	E

2

N

ROAD WORK 1500 FT
W20-1B

ROAD WORK AHEAD
W20-1A

WB CAPITOL DR

623'

500'

EB CAPITOL DR

CANOPY

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 70	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 10
PLOT DATE : 7/21/2023 12:13 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

14+00 15+00 16+00 17+00 18+00

SB IH 41

END ROAD WORK
G20-2A
48"X24"

A
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

COVER TYPE II SIGN ABOVE LEFT LANE

228 229 230 231 232 233 234

TEMPORARY SIDEWALK LIGHTING
TO BE DEPLOYED DURING SAFESPAN USE

USE SAFESPAN OR EQUIVALENT FOR
PAINTING OPERATIONS OVER SIDEWALKS.
MAINTAIN 8 FEET OF VERTICAL CLEARANCE
OVER SIDEWALKS FOR PEDESTRIAN ACCESS.

23"CF1"
24"CF1"
25'
121"CA"
3" CF1"

NB IH 41

16+00 17+00 18+00 19+00 20+00 21+00

25"CF1"
26"CF1"
122"CA"
123"CA"

A
R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

EB CAPITOL DR
WB CAPITOL DR

N

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	
SIGN ON PERMANENT SUPPORT	WORK AREA
SIGN ON TEMPORARY SUPPORT	WORK AREA - PAINTING ONLY
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
TRAFFIC CONTROL 42-INCH CONE	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 71	E

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

LANE CLOSED
R11-2L
48" X 30"
TYPE III BARRICADE

RAMP CLOSED
R11-2R
48" X 30"
TYPE III BARRICADE

LANE CLOSED
R11-2L
48" X 30"
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

CAPITOL SB EXIT RAMP
SB IH 41
NB IH 41
CAPITOL NB ENTRANCE RAMP

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 72 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 12

PLOT DATE : 7/21/2023 12:16 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

A
WO1-6
48" X 24"
TYPE III BARRICADE

STA. 13"CB"+32

2

STA. 15"CB"+93

12"CB" 13"CB" 14"CB" 15"CB" 16"CB" 17"CB" 18"CB"

CAPITOL SB EXIT RAMP

260'

350'

SB IH 41

237 238 239 240 241 242

END ROAD WORK
G20-2A
48"X24"

NB IH 41

CAPITOL NB ENTRANCE RAMP

37"CD" 38"CD" 39"CD" 40"CD" 41"CD" 42"CD"

INL SIGN

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 73	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 13

PLOT DATE : 7/21/2023 12:17 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

W01-4R

ROAD WORK AHEAD W20-1A

18"CB" 19"CB" 20"CB" 21"CB" 22"CB" 23"CB"

CAPITOL SB EXIT RAMP

SB IH 41

350' 350'

242 243 INL INL 244 245 246 247 INL INL 248

NB IH 41

CAPITOL NB ENTRANCE RAMP

42"CD" 43"CD" 44"CD" 45"CD" 46"CD" 47"CD"

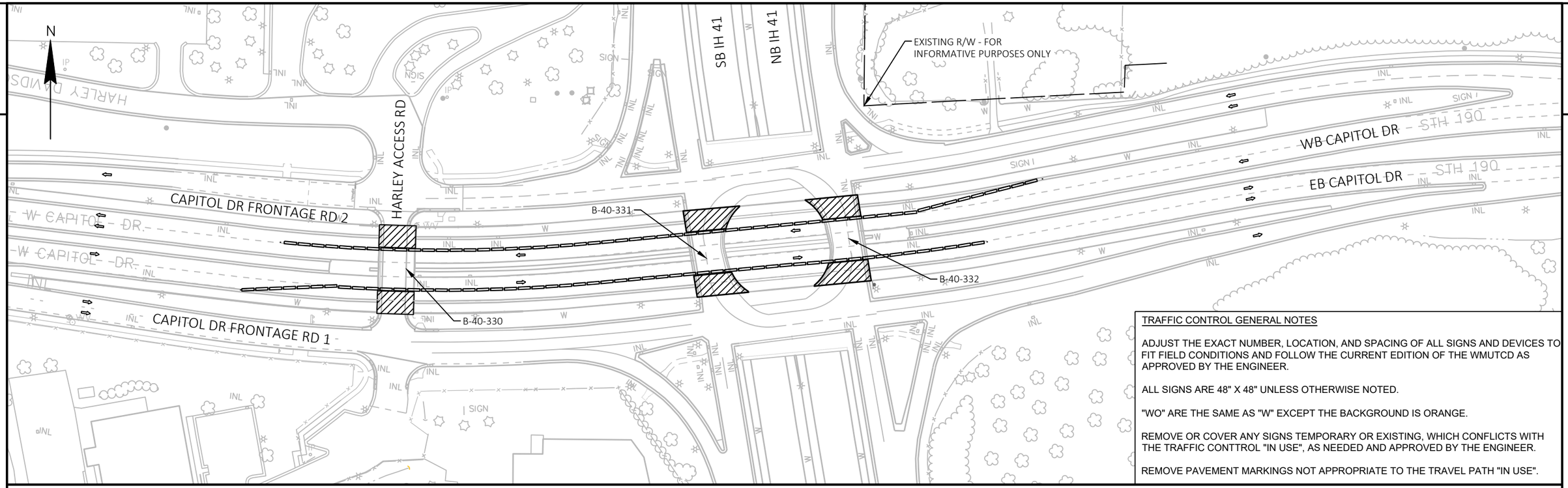
INL SIGN

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 74	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025005_TC.DWG
LAYOUT NAME - 14

PLOT DATE : 7/21/2023 12:19 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL GENERAL NOTES

ADJUST THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES TO FIT FIELD CONDITIONS AND FOLLOW THE CURRENT EDITION OF THE WMUTCD AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

REMOVE OR COVER ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTTROL "IN USE", AS NEEDED AND APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS NOT APPROPRIATE TO THE TRAVEL PATH "IN USE".

LEGEND

WORK ZONE

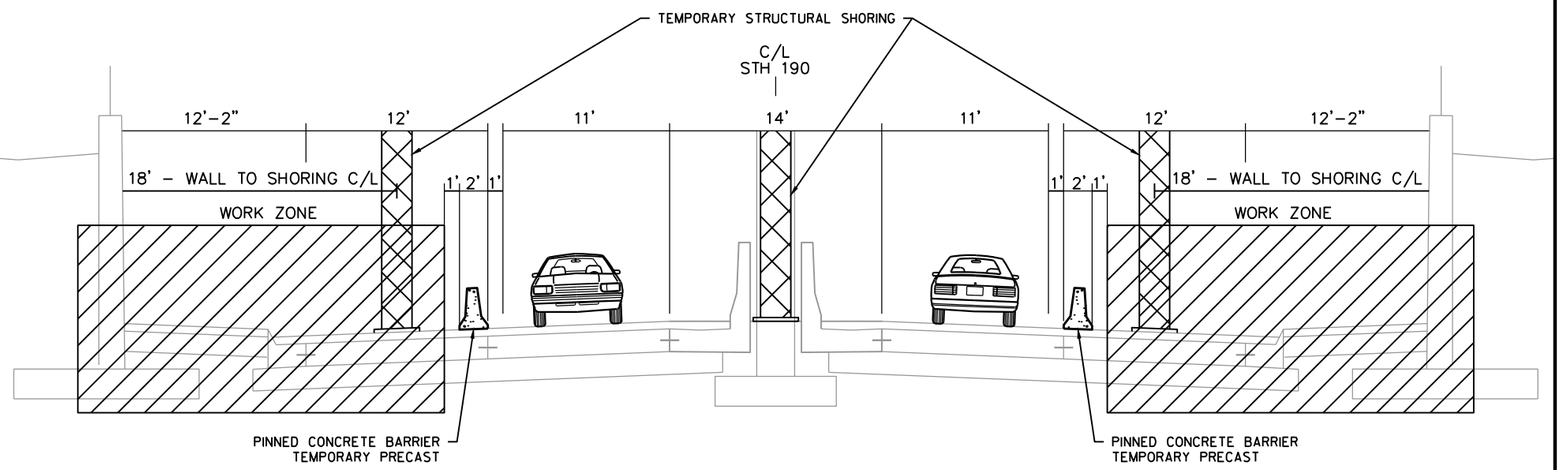
TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE

CONSTRUCTION:

- STRUCTURE WORK ON B-40-330, B-40-331, & B-40-332
  - TEMPORARY SHORING COLUMNS
  - PARTIAL DEPTH REPAIR
  - FULL DEPTH REPAIR
  - UNDERSIDE REPAIR

TRAFFIC:

- LONG TERM OUTSIDE LANE CLOSURE
- CAN BE IMPLEMENTED AT THE SAME TIME AS STAGES 1 & 2
- COORDINATE TRAFFIC CONTROL STAGING WITH PROJECT 2025-03-73 TO THE WEST



TRAFFIC CONTROL – CAPITOL DRIVE OUTSIDE LANE CLOSURE TYPICAL SECTION

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE OVERVIEW	SHEET 75	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025006-TC.DWG
LAYOUT NAME - 00
PLOT DATE : 7/28/2023 11:59 AM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44

2

N

ROAD WORK AHEAD

EXISTING SIGN FROM STAGE 1 & STAGE 2

INL

INL

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	
FLASHING ARROW BOARD	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	WORK AREA
DELINEATOR FLEXIBLE/TUBULAR MARKER	WORK AREA - PAINTING ONLY
TRAFFIC CONTROL 42-INCH CONE	DIRECTION OF TRAFFIC
TYPE A WARNING LIGHT (FLASHING)	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

WB CAPITOL DR

380'

EB CAPITOL DR

EXISTING SIGN FROM STAGE 1 & STAGE 2

ROAD WORK 500 FT

COORDINATE ADVANCE SIGNAGE AND TRAFFIC CONTROL WITH 2025-03-73 PROJECT

PLACE ADVANCE SIGNAGE AT MEDIAN OPENING WEST OF INTERSECTION

SB 124TH STREET

NB 124TH STREET

INTERSTATE 41 M1-1 24"X24"

M1-6 24"X24" 190 USE LEFT LANE R3-54L 24"X24"

45 USE RIGHT LANE M1-4 24"X24" R3-54R 24"X24"

MATCH LINE - N 124TH STREET

ROAD WORK AHEAD

EXISTING SIGN FROM STAGE 1 & STAGE 2

SB 124TH STREET

NB 124TH STREET

EXISTING SIGN FROM STAGE 1 & STAGE 2

ROAD WORK AHEAD

N

MATCH LINE - N 124TH STREET

2

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 76	E

2

N

WB CAPITOL DR

380'

382'

MP

EB CAPITOL DR

EXISTING SIGN FROM
STAGE 1 & STAGE 2

ROAD
WORK
500 FT

INTERSTATE
41
M1-1
24"X24"

M1-6
24"X24"

190
USE
LEFT
LANE
R3-54L
24"X24"

45
USE
RIGHT
LANE
R3-54R
24"X24"

M1-4
24"X24"

ONE LANE
ROAD
AHEAD
W20-4A

LANE SPLIT
W06-50P
60"X12"

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 77	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025006-TC.DWG
LAYOUT NAME - 02

PLOT DATE : 7/28/2023 12:04 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	
SIGN ON PERMANENT SUPPORT	WORK AREA
SIGN ON TEMPORARY SUPPORT	WORK AREA - PAINTING ONLY
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
TRAFFIC CONTROL 42-INCH CONE	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

N

END ROAD WORK
G20-2A
48"X24"

9"CF2"

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

WB CAPITOL DR

EB CAPITOL DR

MATCH LINE: SEE STAGE 1 & STAGE 2 FOR TRAFFIC CONTROL ON CAPITOL DR FRONTAGE ROAD

25'

11"CF1"

12"CF1"

13"CF1"

EXISTING PAVEMENT MARKING: STAGE I & STAGE II

EXISTING SIGN FROM STAGE 1 & STAGE 2 ADJUST AS NEEDED TO BEST FIT STAGE

MATCH LINE: SEE STAGE 1 & STAGE 2 FOR TRAFFIC CONTROL ON CAPITOL DR FRONTAGE ROAD

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

382'

540' - LANE CLOSURE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 78	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025006-TC.DWG
LAYOUT NAME - 03
PLOT DATE : 7/28/2023 12:06 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

N

END ROAD WORK
G20-2A
48"X24"

9"CF2"
10"CF2"
11"CF2"
12"CF2"
13"CF2"
14"CF2"

100' TAPER

"CA"+07.64
-19.54'LT

114"CA"
115"CA"
116"CA"

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

WB CAPITOL DR

EB CAPITOL DR

1

25'

8:1 TAPER

50'

"CA"+57.46
34.90'RT

13"CF1"
14"CF1"
15"CF1"
16"CF1"
17"CF1"
18"CF1"

MATCH LINE: SEE STAGE 1 & STAGE 2 FOR TRAFFIC CONTROL ON CAPITOL DR FRONTAGE ROAD

EXISTING PAVEMENT MARKING: STAGE I & STAGE II

A

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

540' - LANE CLOSURE

301' - BUFFER

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 79 E

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD

N

HARLEY ACCESS RD

CAPITOL DR FRONTAGE RD 2

WB CAPITOL DR

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

13"CF2" 14"CF2" 15"CF2" 16"CF2"

21"HAR"

100' TAPER

"CA"+07.64
-19.54'LT

B-40-330

115"CA" 116"CA" 117"CA" 118"CA" 119"CA" 120"CA"

20"HAR"

50'

"CA"+59.89
20.89'RT

8:1 TAPER

"CA"+57.46
34.90'RT

WO5-52R
12"X36"

17"CF1" 18"CF1" 19"CF1" 20"CF1" 21"CF1" 22"CF1"

19"HAR"

301' - WORK ZONE BUFFER

SIGN

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 80	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025006-TC.DWG
LAYOUT NAME - 05

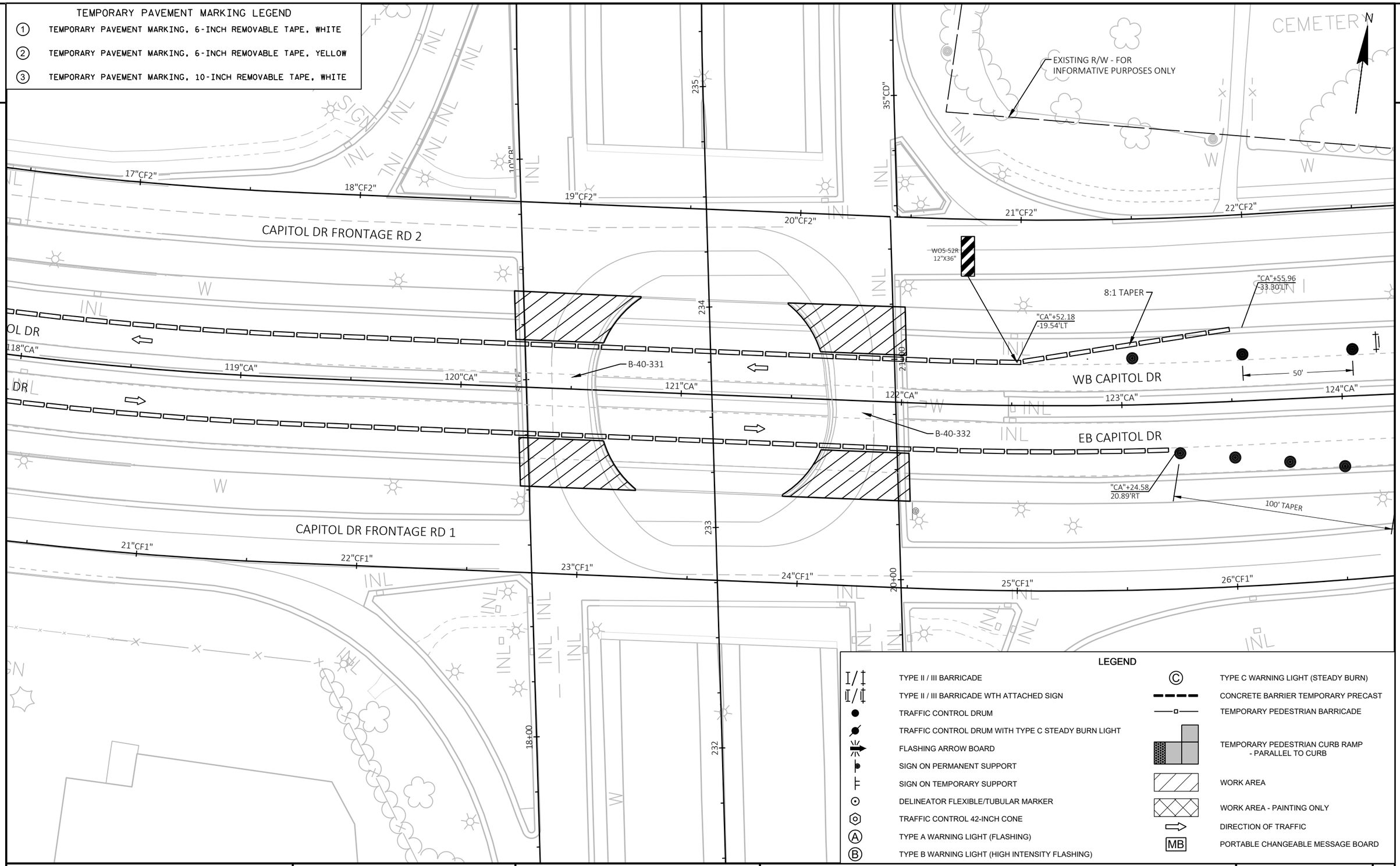
PLOT DATE : 7/28/2023 12:09 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE



LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 81	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025006-TC.DWG
LAYOUT NAME - 06

PLOT DATE : 7/28/2023 12:10 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

CEMETERY

472' - WORK ZONE BUFFER

540' - LANE CLOSURE

EXISTING R/W - FOR
INFORMATIVE PURPOSES ONLY

35"CD"

20"CF2"

21"CF2"

22"CF2"

23"CF2"

24"CF2"

25"CF2"

26"CF2"

CAPITOL DR FRONTAGE RD 2

WO5-52R
12"X36"

8:1 TAPER

"CA"+55.96
-33.30'LT

"CA"+52.18
-19.54'LT

50'

25'

WB CAPITOL DR

122"CA"

123"CA"

124"CA"

125"CA"

126"CA"

EB CAPITOL DR

"CA"+24.58
20.89'RT

100' TAPER

A

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

1

COVER PAVEMENT MARKINGS
THAT CONFLICT WITH STAGING -
TEMPORARY MARKING REMOVABLE
MASK OUT TAPE 6-INCH

CAPITOL DR FRONTAGE RD 1

20+00

25"CF1"

26"CF1"

27"CF1"

28"CF1"

29"CF1"

30"CF1"

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	WORK AREA
SIGN ON PERMANENT SUPPORT	WORK AREA - PAINTING ONLY
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

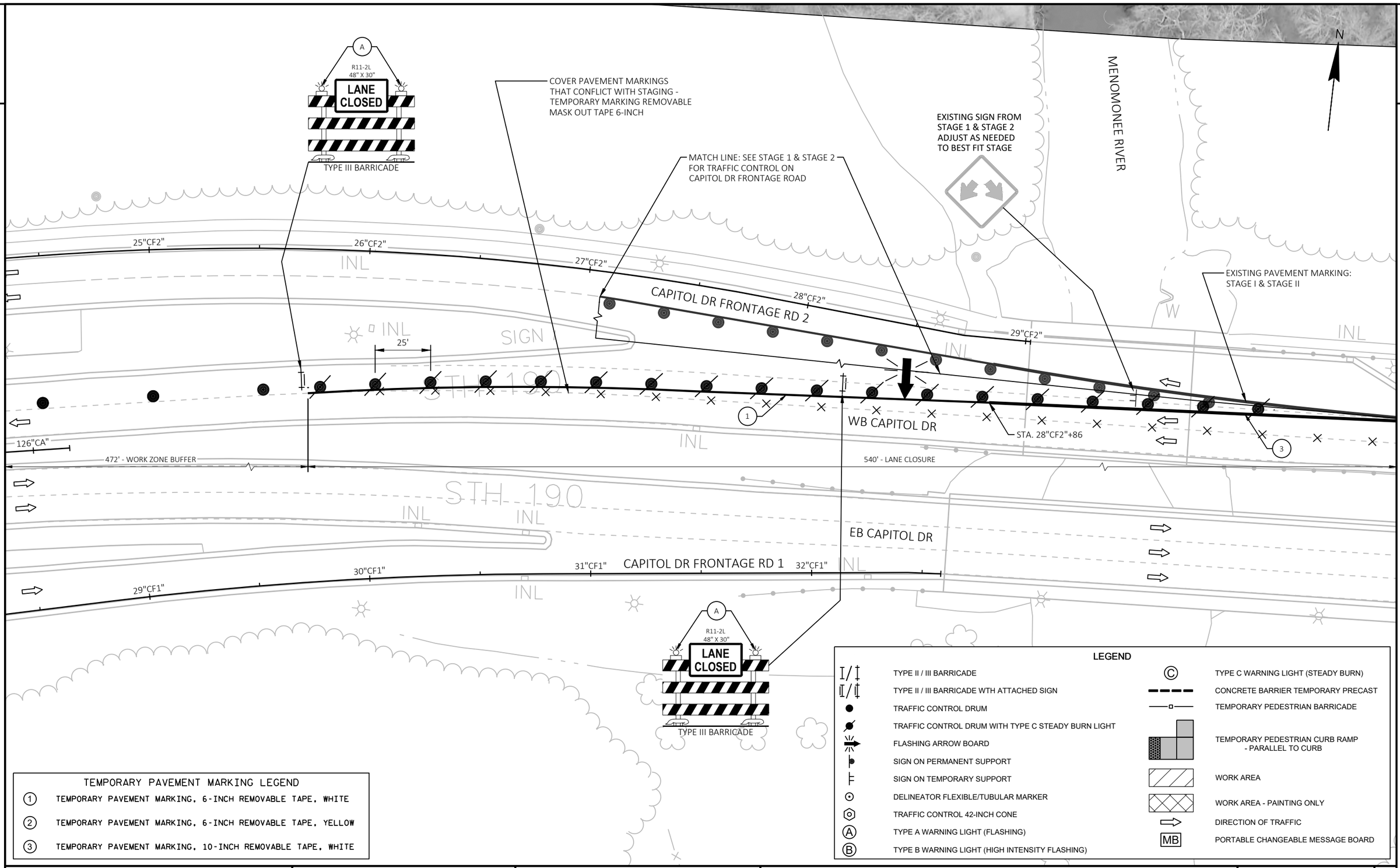
PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 82	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025006-TC.DWG
LAYOUT NAME - 07

PLOT DATE : 7/28/2023 12:11 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

I/‡	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		TEMPORARY PEDESTRIAN BARRICADE
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
	FLASHING ARROW BOARD		WORK AREA
	SIGN ON PERMANENT SUPPORT		WORK AREA - PAINTING ONLY
	SIGN ON TEMPORARY SUPPORT		DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE		
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 83	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025006-TC.DWG
LAYOUT NAME - 08
PLOT DATE : 7/28/2023 12:12 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

MENOMONEE RIVER

EXISTING SIGN FROM STAGE 1 & STAGE 2 ADJUST AS NEEDED TO BEST FIT STAGE

MATCH LINE: SEE STAGE 1 & STAGE 2 FOR TRAFFIC CONTROL ON CAPITOL DR FRONTAGE ROAD

EXISTING PAVEMENT MARKING: STAGE I & STAGE II

CAPITOL DR FRONTAGE RD 2

28"CF2"

29"CF2"

WB CAPITOL DR

25'

STA. 28"CF2"+86

540' - LANE CLOSURE

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

32"CF1"

A

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

END ROAD WORK

G20-2A
48"X24"

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 84	E

2

2

MENOMONEE RIVER PARKWAY

W9-3A
36"X36"

COVER SIGN TYPE I
EXISTING CENTER CHOICE
LANE ARROW SIGN

LANE SPLIT
ONLY
WO6-50P
60"X12"

N

EXISTING PAVEMENT MARKING:
STAGE I & STAGE II

623'

3

WB CAPITOL DR

EB CAPITOL DR

END
ROAD WORK
G20-2A
48"X24"

INTERSTATE 41
M1-1
24"X24"

M1-6
24"X24"

190
USE
LEFT
LANE
R3-54L
24"X24"

45
USE
RIGHT
LANE
R3-54R
24"X24"

M1-4
24"X24"

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	WORK AREA
SIGN ON PERMANENT SUPPORT	WORK AREA - PAINTING ONLY
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 85	E

2

2

N

EXISTING SIGN FROM STAGE 1 & STAGE 2

ROAD WORK 1500 FT

ADD SIGN HERE FOR THIS STAGE

CENTER LANE CLOSED AHEAD W20-5GA

EXISTING SIGN FROM STAGE 1 & STAGE 2

ROAD WORK AHEAD

WB CAPITOL DR

623'

500'

EB CAPITOL DR

CANOPY

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

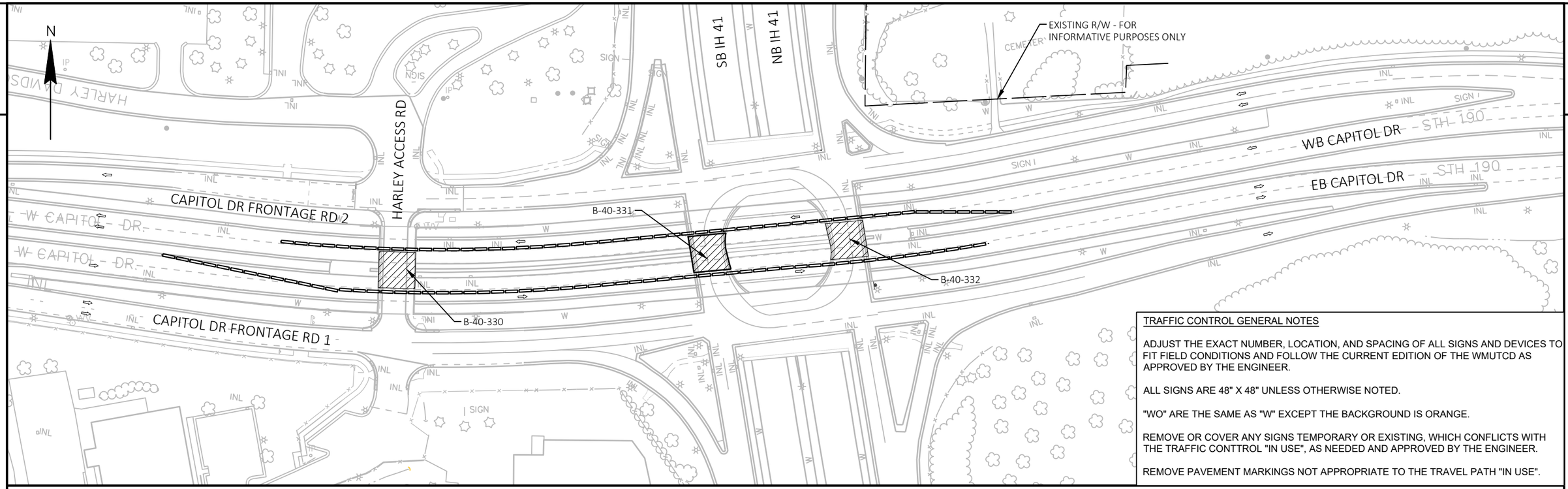
LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE OUTSIDE LANE CLOSURE	SHEET 86	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025006-TC.DWG
LAYOUT NAME - 11

PLOT DATE : 7/28/2023 12:16 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT



TRAFFIC CONTROL GENERAL NOTES

ADJUST THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES TO FIT FIELD CONDITIONS AND FOLLOW THE CURRENT EDITION OF THE WMUTCD AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

REMOVE OR COVER ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTTROL "IN USE", AS NEEDED AND APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS NOT APPROPRIATE TO THE TRAVEL PATH "IN USE".

LEGEND

WORK ZONE

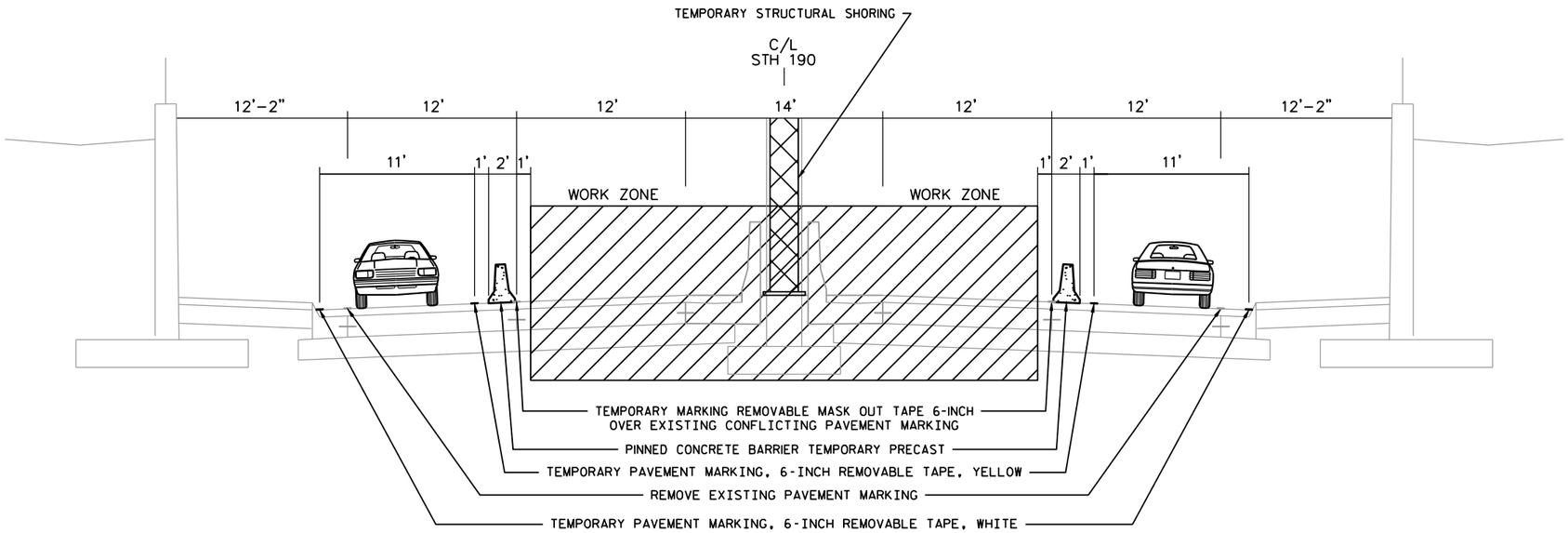
TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE

CONSTRUCTION:

- STRUCTURE WORK ON B-40-330, B-40-331, & B-40-332
  - TEMPORARY SHORING COLUMNS
  - PARTIAL DEPTH REPAIR
  - FULL DEPTH REPAIR
  - UNDERSIDE REPAIR

TRAFFIC:

- LONG TERM INNER LANE CLOSURE
- TRAFFIC SHIFTED ONTO OUTSIDE CURB & GUTTER
- CAN BE IMPLEMENTED AT THE SAME TIME AS STAGES 1 & 2
- COORDINATE TRAFFIC CONTROL STAGING WITH PROJECT 2025-03-73 TO THE WEST



TRAFFIC CONTROL – CAPITOL DRIVE INNER LANE CLOSURE TYPICAL SECTION

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE OVERVIEW	SHEET 87	E

2

N

ROAD WORK AHEAD

EXISTING SIGN FROM STAGE 1 & STAGE 2

INL

INL

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD

WB CAPITOL DR

LEFT LANE CLOSED AHEAD W20-5A

COORDINATE ADVANCE SIGNAGE AND TRAFFIC CONTROL WITH 2025-03-73 PROJECT

EB CAPITOL DR

W04-2L

EXISTING SIGN FROM STAGE 1 & STAGE 2

ROAD WORK 500 FT

PLACE ADVANCE SIGNAGE AT MEDIAN OPENING WEST OF INTERSECTION

WB CAPITOL DR

ROAD WORK AHEAD

EB CAPITOL DR

EXISTING SIGN FROM STAGE 1 & STAGE 2

SB 124TH STREET

NB 124TH STREET

MATCH LINE - N 124TH STREET



MATCH LINE - N 124TH STREET

2

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 88	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025007-TC.DWG
LAYOUT NAME - 01

PLOT DATE : 7/28/2023 3:14 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

N

WB CAPITOL DR

EB CAPITOL DR

EXISTING SIGN FROM STAGE 1 & STAGE 2

ROAD WORK 500 FT

500'

INL

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 89	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025007-TC.DWG
LAYOUT NAME - 02
PLOT DATE : 7/28/2023 3:16 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	
SIGN ON PERMANENT SUPPORT	WORK AREA
SIGN ON TEMPORARY SUPPORT	WORK AREA - PAINTING ONLY
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
TRAFFIC CONTROL 42-INCH CONE	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

N

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

END ROAD WORK
G20-2A
48"X24"

9"CF2"

MATCH LINE: SEE STAGE 1 & STAGE 2 FOR TRAFFIC CONTROL ON CAPITOL DR FRONTAGE ROAD

WB CAPITOL DR

EB CAPITOL DR

5 x 10' SPACING

500'

11"CF1"

12"CF1"

13"CF1"

25'

540' - LANE CLOSURE

EXISTING PAVEMENT MARKING: SEE STAGE 1 & STAGE 2

EXISTING SIGN FROM STAGE 1 & STAGE 2 ADJUST AS NEEDED TO BEST FIT STAGE

MATCH LINE: SEE STAGE 1 & STAGE 2 FOR TRAFFIC CONTROL ON CAPITOL DR FRONTAGE ROAD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 90 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025007-TC.DWG
LAYOUT NAME - 03

PLOT DATE : 7/28/2023 3:17 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

N

END ROAD WORK
G20-2A
48"X24"

9"CF2"
10"CF2"
11"CF2"
12"CF2"
13"CF2"
14"CF2"
100' TAPER

REMOVE PAVEMENT MARKINGS THAT CONFLICT WITH STAGING

"CA"+07.64
-19.68'LT

"CA"+39.34
-18.60'LT

WB CAPITOL DR

114"CA"
115"CA"
116"CA"
8:1 TAPER

"CA"+16.10
5.34'RT

25'

EB CAPITOL DR

50'

13"CF1"
14"CF1"
15"CF1"
16"CF1"
17"CF1"
18"CF1"

MATCH LINE: SEE STAGE 1 & STAGE 2 FOR TRAFFIC CONTROL ON CAPITOL DR FRONTAGE ROAD

EXISTING PAVEMENT MARKING: SEE STAGE 1 & STAGE 2

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

REMOVE PAVEMENT MARKINGS THAT CONFLICT WITH STAGING

EXISTING SIGN FROM STAGE 1 & STAGE 2 ADJUST AS NEEDED TO BEST FIT STAGE

540' - LANE CLOSURE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 91	E

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

N

HARLEY ACCESS RD

CAPITOL DR FRONTAGE RD 2

CAPITOL DR FRONTAGE RD 1

WB CAPITOL DR

EB CAPITOL DR

13"CF2" 14"CF2" 15"CF2" 16"CF2"

100' TAPER

"CA"+07.64
-19.68'LT

"CA"+39.34
-18.60'LT

"CA"+16.10
5.34'RT

115"CA" 116"CA" 117"CA" 118"CA" 119"CA" 120"CA"

8:1 TAPER

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

B-40-330

21"HAR"

20"HAR"

19"HAR"

50'

"CA"+60.01
21.03'RT

W5-52L
12"X36"

17"CF1" 18"CF1" 19"CF1" 20"CF1" 21"CF1" 22"CF1"

540' - LANE CLOSURE

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

REMOVE PAVEMENT MARKINGS THAT CONFLICT WITH STAGING

SIGN

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 92	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025007-TC.DWG
LAYOUT NAME - 05

PLOT DATE : 7/28/2023 3:20 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

CAPITOL DR FRONTAGE RD 2

CAPITOL DR FRONTAGE RD 1

EXISTING R/W - FOR INFORMATIVE PURPOSES ONLY

CEMETERY

N

17"CF2" 18"CF2" 19"CF2" 20"CF2" 21"CF2" 22"CF2"

118"CA" 119"CA" 120"CA" 121"CA" 122"CA" 123"CA" 124"CA"

21"CF1" 22"CF1" 23"CF1" 24"CF1" 25"CF1" 26"CF1"

10"CP2" 35"CD" 8"CF2"

235 234 233 232

20+00 18+00

B-40-331

B-40-332

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

W5-52L 12"X36"

8:1 TAPER

SIGN 50'

"CA"+52.06 -19.68'LT

"CA"+79.94 -3.91'LT

"CA"+24.58 21.03'RT

"CA"+92.75 19.95'RT

100' TAPER

REMOVE PAVEMENT MARKINGS THAT CONFLICT WITH STAGING

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 93	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025007-TC.DWG
LAYOUT NAME - 06

PLOT DATE : 7/28/2023 3:21 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

CEMETERY

EXISTING R/W - FOR INFORMATIVE PURPOSES ONLY

35"CD"

20"CF2"
21"CF2"
22"CF2"
23"CF2"
24"CF2"
25"CF2"
26"CF2"

CAPITOL DR FRONTAGE RD 2

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

W5-52L
12"X36"

SIGN

50'

540' - LANE CLOSURE

24+00

"CA"+52.06
-19.68'LT

8:1 TAPER

"CA"+79.94
-3.91'LT

122"CA"
123"CA"
124"CA"
125"CA"
126"CA"

WB CAPITOL DR

"CA"+24.58
21.03'RT

25'

EB CAPITOL DR

"CA"+92.75
19.95'RT

100' TAPER

20+00

25"CF1"
26"CF1"
27"CF1"
28"CF1"
29"CF1"
30"CF1"

CAPITOL DR FRONTAGE RD 1

REMOVE PAVEMENT MARKINGS THAT CONFLICT WITH STAGING

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

I/‡	TYPE II / III BARRICADE	Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		TEMPORARY PEDESTRIAN BARRICADE
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
	FLASHING ARROW BOARD		WORK AREA
	SIGN ON PERMANENT SUPPORT		WORK AREA - PAINTING ONLY
	SIGN ON TEMPORARY SUPPORT		DIRECTION OF TRAFFIC
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⬡	TRAFFIC CONTROL 42-INCH CONE		
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 94	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025007-TC.DWG
LAYOUT NAME - 07

PLOT DATE : 7/28/2023 3:23 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

MENOMONEE RIVER

EXISTING SIGN FROM STAGE 1 & STAGE 2 ADJUST AS NEEDED TO BEST FIT STAGE

MATCH LINE: SEE STAGE 1 & STAGE 2 FOR TRAFFIC CONTROL ON CAPITOL DR FRONTAGE ROAD

EXISTING PAVEMENT MARKING: SEE STAGE 1 & STAGE 2

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

25"CF2"

26"CF2"

27"CF2"

28"CF2"

29"CF2"

CAPITOL DR FRONTAGE RD 2

WB CAPITOL DR

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

29"CF1"

30"CF1"

31"CF1"

32"CF1"

126"CA"

25'

5 x 10' SPACING

540' - LANE CLOSURE

STH 190

INL

SIGN

2

3

A

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2	TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3	TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	WORK AREA
DELINEATOR FLEXIBLE/TUBULAR MARKER	WORK AREA - PAINTING ONLY
TRAFFIC CONTROL 42-INCH CONE	DIRECTION OF TRAFFIC
TYPE A WARNING LIGHT (FLASHING)	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 95	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025007-TC.DWG
LAYOUT NAME - 08

PLOT DATE : 7/28/2023 3:24 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

COVER PAVEMENT MARKINGS THAT CONFLICT WITH STAGING - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

MATCH LINE: SEE STAGE 1 & STAGE 2 FOR TRAFFIC CONTROL ON CAPITOL DR FRONTAGE ROAD

MENOMONEE RIVER

EXISTING SIGN FROM STAGE 1 & STAGE 2 ADJUST AS NEEDED TO BEST FIT STAGE

CAPITOL DR FRONTAGE RD 2

28"CF2"

29"CF2"

EXISTING PAVEMENT MARKING: SEE STAGE 1 & STAGE 2

623'

5 x 10' SPACING

WB CAPITOL DR

25'

2

3

540' - LANE CLOSURE

EB CAPITOL DR

CAPITOL DR FRONTAGE RD 1

32"CF1"

INL

G20-2A
48"X24"

END
ROAD WORK

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
FLASHING ARROW BOARD	WORK AREA
SIGN ON PERMANENT SUPPORT	WORK AREA - PAINTING ONLY
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
DELINEATOR FLEXIBLE/TUBULAR MARKER	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL 42-INCH CONE	
TYPE A WARNING LIGHT (FLASHING)	
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 96	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025007-TC.DWG
LAYOUT NAME - 09

PLOT DATE : 7/28/2023 3:26 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MENOMONEE RIVER PARKWAY

N

R3-50A
30"X36"
ONLY

W04-2L

ONLY

LANE SPLIT

WO6-50P
60"X12"

COVER SIGN TYPE I -
EXISTING LEFT STRAIGHT ARROW &
CENTER CHOICE LANE ARROW SIGNS

623'

3

WB CAPITOL DR

EB CAPITOL DR

INL

W

END
ROAD WORK

G20-2A
48"X24"

INTERSTATE 41
M1-1
24"X24"

M1-6
24"X24"

190
USE
LEFT
LANE

R3-54L
24"X24"

M1-4
24"X24"

45
USE
RIGHT
LANE

R3-54R
24"X24"

LEGEND

TYPE II / III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	
FLASHING ARROW BOARD	TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	WORK AREA
DELINEATOR FLEXIBLE/TUBULAR MARKER	WORK AREA - PAINTING ONLY
TRAFFIC CONTROL 42-INCH CONE	DIRECTION OF TRAFFIC
TYPE A WARNING LIGHT (FLASHING)	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 97	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025007-TC.DWG
LAYOUT NAME - 10
PLOT DATE : 7/28/2023 3:27 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

EXISTING SIGN FROM STAGE 1 & STAGE 2

ROAD WORK 1500 FT

ADD SIGN HERE FOR THIS STAGE

LEFT LANE CLOSED AHEAD W20-5SA

EXISTING SIGN FROM STAGE 1 & STAGE 2

ROAD WORK AHEAD

WB CAPITOL DR

623'

500'

EB CAPITOL DR

CANOPY

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, WHITE
2. TEMPORARY PAVEMENT MARKING, 6-INCH REMOVABLE TAPE, YELLOW
3. TEMPORARY PAVEMENT MARKING, 10-INCH REMOVABLE TAPE, WHITE

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TRAFFIC CONTROL 42-INCH CONE
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP - PARALLEL TO CURB
- WORK AREA
- WORK AREA - PAINTING ONLY
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TRAFFIC CONTROL - CAPITOL DRIVE INNER LANE CLOSURE	SHEET 98	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\025007-TC.DWG
LAYOUT NAME - 11

PLOT DATE : 7/28/2023 3:29 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

CAPITOL DR RAMP TO I-41 NORTH CLOSED USE ALT ROUTE
BEGINS XXX-XX

CAPITOL DR RAMP TO I-41 NORTH CLOSED USE ALT ROUTE
BEGINS XXX-XX

HWY 190 WEST CAPITOL DR RAMP CLOSED USE EXIT 45
BEGINS XXX-XX

CAPITOL DRIVE EB TO IH-41 NB RAMP CLOSED

CAPITOL DRIVE EB TO IH-41 NB CLOSED

IH-41 NB EXIT RAMP TO CAPITOL DRIVE WB CLOSED

124TH ST

DETOUR 4
DETOUR 3

IH-41

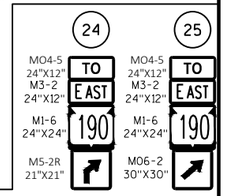
CAPITOL DRIVE STH 190

HWY 100

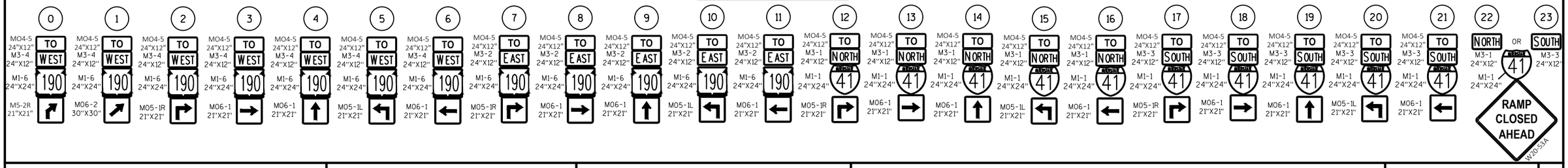
DETOUR 1

HAMPTON AVENUE (CTH EE)

N



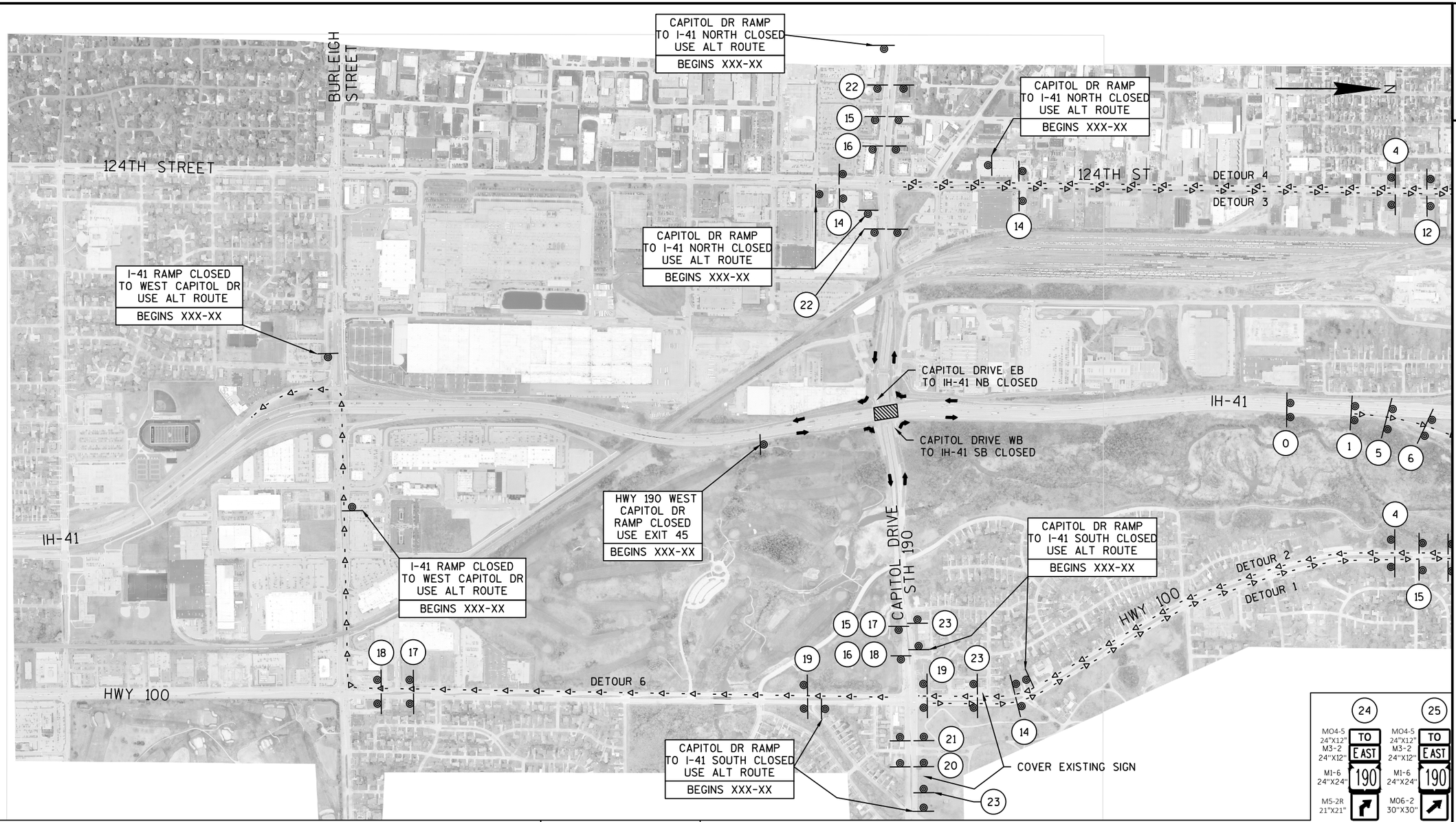
DETOUR SIGNS



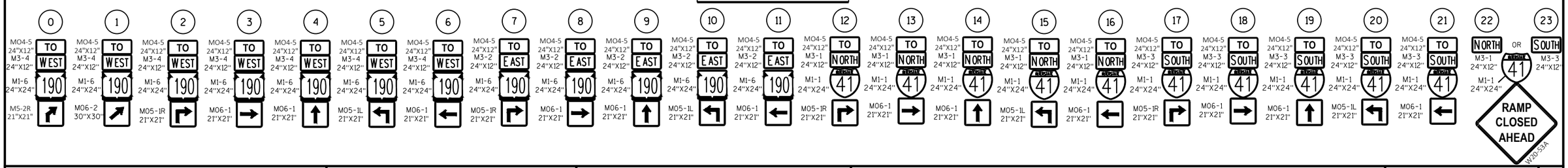
PROJECT NO: 1100-20-74	HWY: IH-41	COUNTY: MILWAUKEE	CAPITOL DRIVE DETOURS - STAGE 1C	SHEET 99 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\027001_DT CAPITOL DR_STAGE 1C.DWG
LAYOUT NAME - CAPITOL STAGE 1C
PLOT DATE : 9/20/2023 3:11 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 42

2



DETOUR SIGNS



PROJECT NO: 1100-20-74	HWY: IH-41	COUNTY: MILWAUKEE	CAPITOL DRIVE DETOURS - STAGE 1D	SHEET 100 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\027001_DT CAPITOL DR_STAGE 1D.DWG
LAYOUT NAME - CAPITOL_STAGE 1D-1
PLOT DATE : 9/20/2023 3:11 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:1000 FT

2

CAPITOL DR RAMP TO I-41 NORTH CLOSED USE ALT ROUTE
BEGINS XXX-XX

CAPITOL DR RAMP TO I-41 NORTH CLOSED USE ALT ROUTE
BEGINS XXX-XX

CAPITOL DR RAMP TO I-41 NORTH CLOSED USE ALT ROUTE
BEGINS XXX-XX

I-41 RAMP CLOSED TO EAST CAPITOL DR USE ALT ROUTE
BEGINS XXX-XX

HWY 190 EAST CAPITOL DR RAMP CLOSED USE EXIT 45
BEGINS XXX-XX

HWY 190 WEST CAPITOL DR RAMP CLOSED USE EXIT 45
BEGINS XXX-XX

CAPITOL DR RAMP TO I-41 SOUTH CLOSED USE ALT ROUTE
BEGINS XXX-XX

CAPITOL DR RAMP TO I-41 SOUTH CLOSED USE ALT ROUTE
BEGINS XXX-XX

CAPITOL DRIVE EB TO IH-41 NB CLOSED

CAPITOL DRIVE WB TO IH-41 SB CLOSED

COVER EXISTING SIGN

124TH ST

DETOUR 4

DETOUR 3

DETOUR 2

DETOUR 1

DETOUR 6

IH-41

HWY 100

CAPITOL DRIVE STH 190

HAMPTON AVENUE (CTH EE)

N

24 — MO4-5 24"X12" M3-2 24"X12" / M1-6 24"X24" / M5-2R 21"X21" — TO EAST 190

25 — MO4-5 24"X12" M3-2 24"X12" / M1-6 24"X24" / M06-2 30"X30" — TO EAST 190

DETOUR SIGNS

0 — MO4-5 24"X12" M3-4 24"X12" / M1-6 24"X24" / M5-2R 21"X21" — TO WEST 190

1 — MO4-5 24"X12" M3-4 24"X12" / M1-6 24"X24" / M06-2 30"X30" — TO WEST 190

2 — MO4-5 24"X12" M3-4 24"X12" / M1-6 24"X24" / M05-1R 21"X21" — TO WEST 190

3 — MO4-5 24"X12" M3-4 24"X12" / M1-6 24"X24" / M06-1 21"X21" — TO WEST 190

4 — MO4-5 24"X12" M3-4 24"X12" / M1-6 24"X24" / M06-1 21"X21" — TO WEST 190

5 — MO4-5 24"X12" M3-2 24"X12" / M1-6 24"X24" / M05-1L 21"X21" — TO WEST 190

6 — MO4-5 24"X12" M3-2 24"X12" / M1-6 24"X24" / M06-1 21"X21" — TO WEST 190

7 — MO4-5 24"X12" M3-2 24"X12" / M1-6 24"X24" / M05-1R 21"X21" — TO EAST 190

8 — MO4-5 24"X12" M3-2 24"X12" / M1-6 24"X24" / M06-1 21"X21" — TO EAST 190

9 — MO4-5 24"X12" M3-2 24"X12" / M1-6 24"X24" / M06-1 21"X21" — TO EAST 190

10 — MO4-5 24"X12" M3-2 24"X12" / M1-6 24"X24" / M05-1L 21"X21" — TO EAST 190

11 — MO4-5 24"X12" M3-2 24"X12" / M1-6 24"X24" / M06-1 21"X21" — TO EAST 190

12 — MO4-5 24"X12" M3-1 24"X12" / M1-1 24"X24" / M05-1R 21"X21" — TO NORTH 41

13 — MO4-5 24"X12" M3-1 24"X12" / M1-1 24"X24" / M06-1 21"X21" — TO NORTH 41

14 — MO4-5 24"X12" M3-1 24"X12" / M1-1 24"X24" / M06-1 21"X21" — TO NORTH 41

15 — MO4-5 24"X12" M3-1 24"X12" / M1-1 24"X24" / M05-1L 21"X21" — TO NORTH 41

16 — MO4-5 24"X12" M3-1 24"X12" / M1-1 24"X24" / M06-1 21"X21" — TO NORTH 41

17 — MO4-5 24"X12" M3-3 24"X12" / M1-1 24"X24" / M05-1R 21"X21" — TO SOUTH 41

18 — MO4-5 24"X12" M3-3 24"X12" / M1-1 24"X24" / M06-1 21"X21" — TO SOUTH 41

19 — MO4-5 24"X12" M3-3 24"X12" / M1-1 24"X24" / M06-1 21"X21" — TO SOUTH 41

20 — MO4-5 24"X12" M3-3 24"X12" / M1-1 24"X24" / M05-1L 21"X21" — TO SOUTH 41

21 — MO4-5 24"X12" M3-3 24"X12" / M1-1 24"X24" / M06-1 21"X21" — TO SOUTH 41

22 — NORTH OR 41 / M3-1 24"X12" / M1-1 24"X24" — RAMP CLOSED AHEAD W20-53A

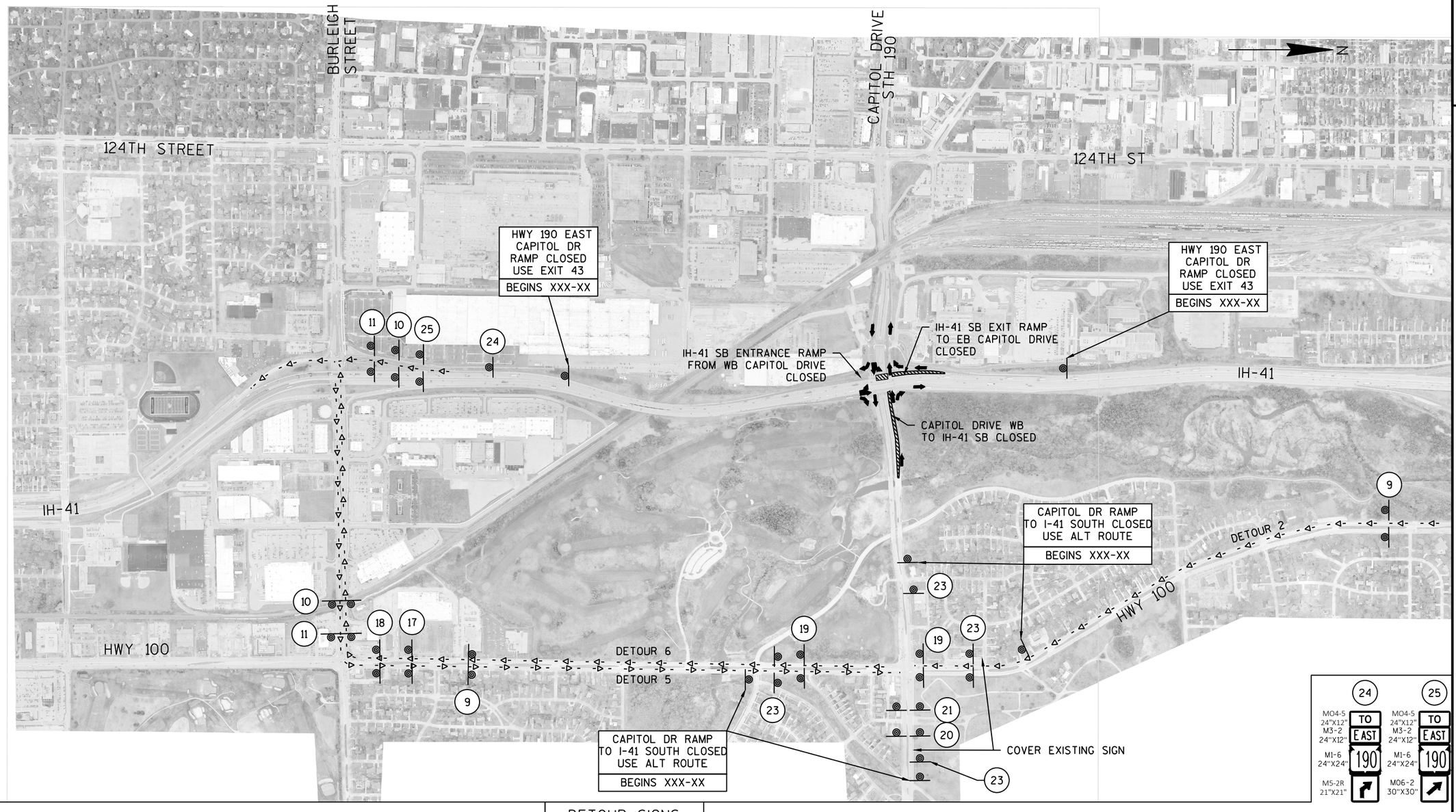
23 — SOUTH OR 41 / M3-3 24"X12" / M1-1 24"X24" — RAMP CLOSED AHEAD W20-53A

PROJECT NO: 1100-20-74	HWY: IH-41	COUNTY: MILWAUKEE	CAPITOL DRIVE DETOURS - STAGE 1D	SHEET 101 E

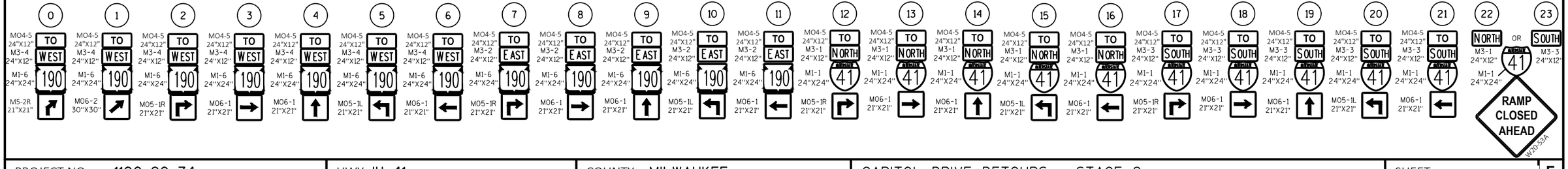
FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\027001_DT CAPITOL DR_STAGE 1D.DWG
LAYOUT NAME - CAPITOL STAGE 1D-2

PLOT DATE : 9/20/2023 3:11 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:1000 FT

2



DETOUR SIGNS



PROJECT NO: 1100-20-74	HWY: IH-41	COUNTY: MILWAUKEE	CAPITOL DRIVE DETOURS - STAGE 2	SHEET 102 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\027001_DT CAPITOL DR_STAGE 2.DWG
LAYOUT NAME - CAPITOL_STAGE 2-1

PLOT DATE : 9/20/2023 3:12 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:1000 FT

2

CAPITOL DRIVE
STH 190

124TH ST

I-41 RAMP CLOSED
TO EAST CAPITOL DR
BEGINS XXX-XX

HWY 190 EAST
CAPITOL DR
RAMP CLOSED
USE EXIT 43
BEGINS XXX-XX

I-41 RAMP CLOSED
TO EAST CAPITOL DR
USE ALT ROUTE
BEGINS XXX-XX

HWY 190 EAST
CAPITOL DR
RAMP CLOSED
USE EXIT 45
BEGINS XXX-XX

IH-41 SB ENTRANCE RAMP
FROM WB CAPITOL DRIVE
CLOSED

IH-41 SB EXIT RAMP
TO EB CAPITOL DRIVE
CLOSED

IH-41

CAPITOL DRIVE WB
TO IH-41 SB CLOSED

CAPITOL DR RAMP
TO I-41 SOUTH CLOSED
USE ALT ROUTE
BEGINS XXX-XX

DETOUR 2

HWY 100

DETOUR 6

DETOUR 5

CAPITOL DR RAMP
TO I-41 SOUTH CLOSED
USE ALT ROUTE
BEGINS XXX-XX

COVER EXISTING SIGN

I-41 RAMP CLOSED
TO EAST CAPITOL DR
BEGINS XXX-XX

HAMPTON AVENUE
(CTH EE)

N

24

MO4-5 24"X12" M3-2 24"X12" M1-6 24"X24" M5-2R 21"X21"
TO EAST 190

25

MO4-5 24"X12" M3-2 24"X12" M1-6 24"X24" M06-2 30"X30"
TO EAST 190

DETOUR SIGNS

0 — MO4-5 24"X12" M3-4 24"X12" M1-6 24"X24" M5-2R 21"X21" — TO WEST 190

1 — MO4-5 24"X12" M3-4 24"X12" M1-6 24"X24" M06-2 30"X30" — TO WEST 190

2 — MO4-5 24"X12" M3-4 24"X12" M1-6 24"X24" M05-1R 21"X21" — TO WEST 190

3 — MO4-5 24"X12" M3-4 24"X12" M1-6 24"X24" M06-1 21"X21" — TO WEST 190

4 — MO4-5 24"X12" M3-4 24"X12" M1-6 24"X24" M06-1 21"X21" — TO WEST 190

5 — MO4-5 24"X12" M3-4 24"X12" M1-6 24"X24" M05-1L 21"X21" — TO WEST 190

6 — MO4-5 24"X12" M3-4 24"X12" M1-6 24"X24" M06-1 21"X21" — TO WEST 190

7 — MO4-5 24"X12" M3-2 24"X12" M1-6 24"X24" M05-1R 21"X21" — TO EAST 190

8 — MO4-5 24"X12" M3-2 24"X12" M1-6 24"X24" M06-1 21"X21" — TO EAST 190

9 — MO4-5 24"X12" M3-2 24"X12" M1-6 24"X24" M06-1 21"X21" — TO EAST 190

10 — MO4-5 24"X12" M3-2 24"X12" M1-6 24"X24" M05-1L 21"X21" — TO EAST 190

11 — MO4-5 24"X12" M3-2 24"X12" M1-6 24"X24" M06-1 21"X21" — TO EAST 190

12 — MO4-5 24"X12" M3-1 24"X12" M1-1 24"X24" M05-1R 21"X21" — TO NORTH 41

13 — MO4-5 24"X12" M3-1 24"X12" M1-1 24"X24" M06-1 21"X21" — TO NORTH 41

14 — MO4-5 24"X12" M3-1 24"X12" M1-1 24"X24" M06-1 21"X21" — TO NORTH 41

15 — MO4-5 24"X12" M3-1 24"X12" M1-1 24"X24" M05-1L 21"X21" — TO NORTH 41

16 — MO4-5 24"X12" M3-1 24"X12" M1-1 24"X24" M06-1 21"X21" — TO NORTH 41

17 — MO4-5 24"X12" M3-3 24"X12" M1-1 24"X24" M05-1R 21"X21" — TO SOUTH 41

18 — MO4-5 24"X12" M3-3 24"X12" M1-1 24"X24" M06-1 21"X21" — TO SOUTH 41

19 — MO4-5 24"X12" M3-3 24"X12" M1-1 24"X24" M06-1 21"X21" — TO SOUTH 41

20 — MO4-5 24"X12" M3-3 24"X12" M1-1 24"X24" M05-1L 21"X21" — TO SOUTH 41

21 — MO4-5 24"X12" M3-3 24"X12" M1-1 24"X24" M06-1 21"X21" — TO SOUTH 41

22 — MO4-5 24"X12" M3-1 24"X12" M1-1 24"X24" — NORTH OR 41

23 — MO4-5 24"X12" M3-3 24"X12" — SOUTH 41

RAMP CLOSED AHEAD
W20-53A

PROJECT NO: 1100-20-74	HWY: IH-41	COUNTY: MILWAUKEE	CAPITOL DRIVE DETOURS - STAGE 2	SHEET 103 E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\027001_DT CAPITOL DR_STAGE 2.DWG
LAYOUT NAME - CAPITOL_STAGE 2-2

PLOT DATE : 9/20/2023 3:12 PM PLOT BY : RING, STEVEN M PLOT NAME : PLOT SCALE : 1 IN:1000 FT

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 = 420.26'
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"W

CURVE CA 5
PI STA = 232+90.74"CA"
Y = 317858.403
X = 566175.538
DELTA = 66°47'22"
D = 37°37'58"
T = 100.37'
L = 177.48'
R = 152.25'
PC STA = 231+90.37"CA"
Y = 317768.898
X = 566220.959
PT STA = 233+67.84"CA"
Y = 317851.934
X = 566075.377
BK = N26°54'21.8"W
AH = S86°18'16.3"W

CURVE CA 6
PI STA = 234+25.45"CA"
Y = 317848.221
X = 566017.888
DELTA = 3°17'59"
D = 2°51'53"
T = 57.61'
L = 115.19'
R = 2000.00'
PC STA = 233+67.84"CA"
Y = 317851.934
X = 566075.377
PT STA = 234+83.03"CA"
Y = 317847.823
X = 565960.280
BK = S86°18'16.3"W
AH = S89°36'15.7"W

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 CA 1
PI STA = 216+78.77"CA"
Y = 316286.151
X = 566505.584
DELTA = 4°59'41"
D = 1°20'34"
T = 186.10'
L = 371.97'
R = 4267.02'
PC STA = 214+92.67"CA"
Y = 316100.165
X = 566512.216
PT STA = 218+64.64"CA"
Y = 316470.853
X = 566482.784
BK = N02°02'32.6"W
AH = N07°02'13.5"W

CURVE CA 4
PI STA = 231+49.99"CA"
Y = 317732.318
X = 566239.522
DELTA = 17°34'51"
D = 21°35'56"
T = 41.02'
L = 81.40'
R = 265.27'
PC STA = 231+08.97"CA"
Y = 317691.839
X = 566246.169
PT STA = 231+90.37"CA"
Y = 317768.898
X = 566220.959
BK = N09°19'30.9"W
AH = N26°54'21.8"W

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

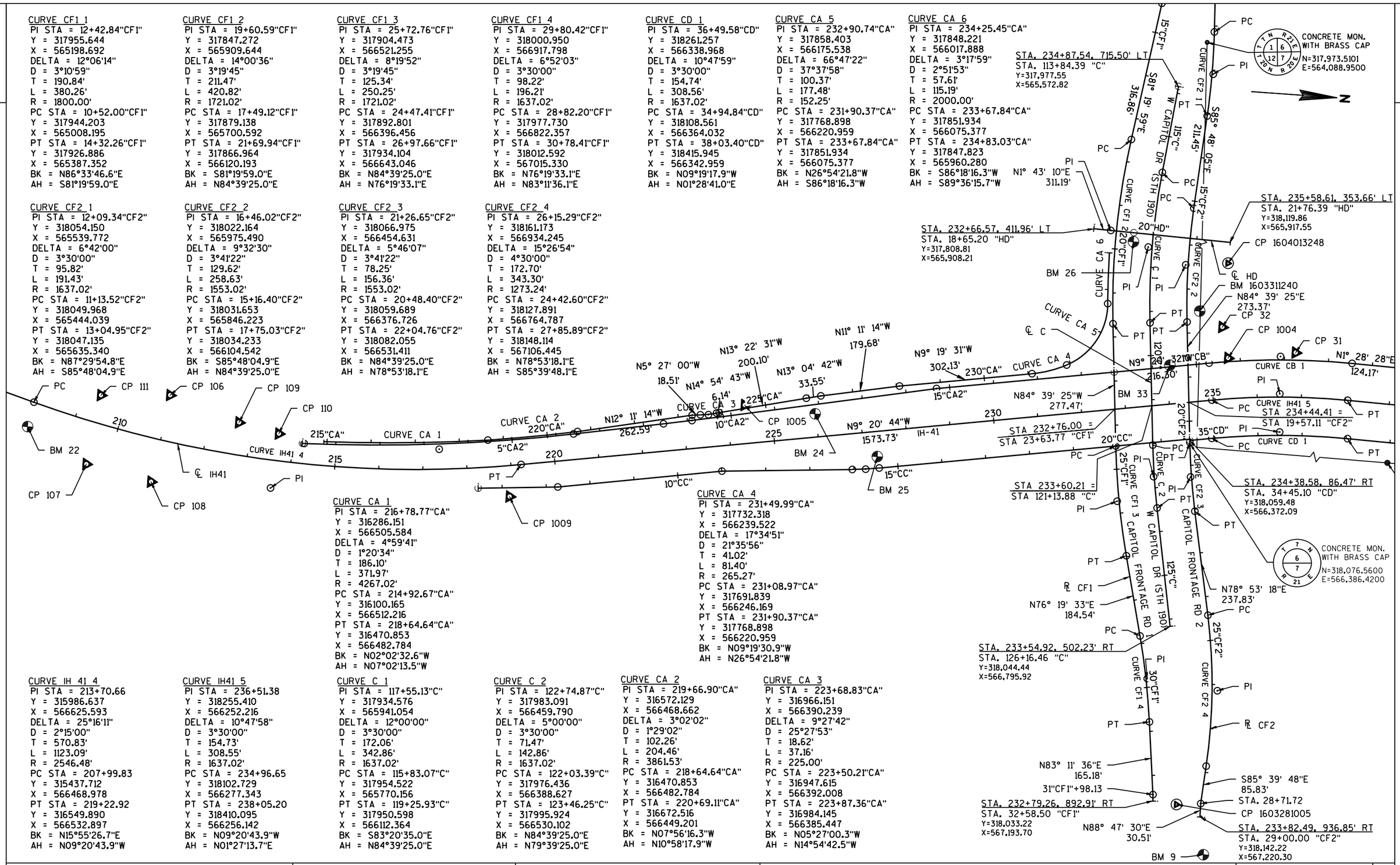
CURVE IH41 5
PI STA = 236+51.38
Y = 318255.410
X = 566252.216
DELTA = 10°47'58"
D = 3°30'00"
T = 154.73'
L = 308.55'
R = 1637.02'
PC STA = 234+96.65
Y = 318102.729
X = 566277.343
PT STA = 238+05.20
Y = 318410.095
X = 566256.142
BK = N09°20'43.9"W
AH = N01°27'13.7"E

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

CURVE CA 2
PI STA = 219+66.90"CA"
Y = 316572.129
X = 566468.662
DELTA = 3°02'02"
D = 1°29'02"
T = 102.26'
L = 204.46'
R = 3861.53'
PC STA = 218+64.64"CA"
Y = 316470.853
X = 566482.784
PT STA = 220+69.11"CA"
Y = 316672.516
X = 566449.201
BK = N07°56'16.3"W
AH = N10°58'17.9"W

CURVE CA 3
PI STA = 223+68.83"CA"
Y = 316966.151
X = 566390.239
DELTA = 9°27'42"
D = 25°27'53"
T = 18.62'
L = 37.16'
R = 225.00'
PC STA = 223+50.21"CA"
Y = 316947.615
X = 566392.008
PT STA = 223+87.36"CA"
Y = 316984.145
X = 566385.447
BK = N05°27'00.3"W
AH = N14°54'42.5"W



PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 104	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\027201-AD.DWG
LAYOUT NAME - 01
PLOT DATE : 7/31/2023 3:50 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

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 CA 5
PI STA = 232+90.74"CA"
Y = 317858.403
X = 566175.538
DELTA = 66°47'22"
D = 37°37'58"
T = 100.37'
L = 177.48'
R = 152.25'
PC STA = 231+90.37"CA"
Y = 317768.898
X = 566220.959
PT STA = 233+67.84"CA"
Y = 317851.934
X = 566075.377
BK = N26°54'21.8"W
AH = S86°18'16.3"W

CURVE CA 6
PI STA = 234+25.45"CA"
Y = 317848.221
X = 566017.888
DELTA = 3°17'59"
D = 2°51'53"
T = 57.61'
L = 115.19'
R = 2000.00'
PC STA = 233+67.84"CA"
Y = 317851.934
X = 566075.377
PT STA = 234+83.03"CA"
Y = 317847.823
X = 565960.280
BK = S86°18'16.3"W
AH = S89°36'15.7"W

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

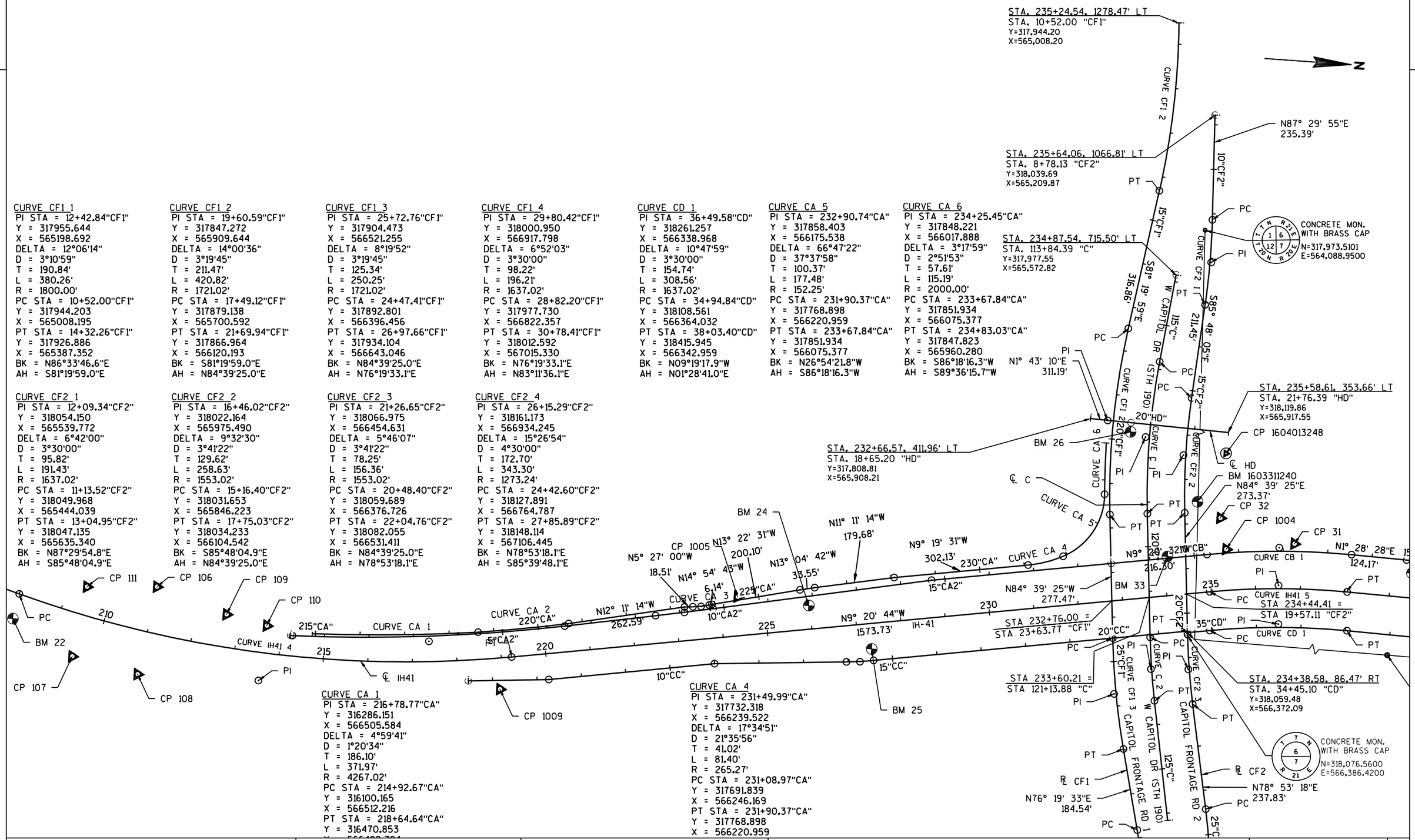
CURVE CF2 2
PI STA = 16+46.02"CF2"
Y = 318022.164
X = 565975.490
DELTA = 9°32'30"
D = 3°41'22"
T = 129.62'
L = 258.63'
R = 1553.02'
PC STA = 15+16.40"CF2"
Y = 318031.653
X = 565846.223
PT STA = 17+75.03"CF2"
Y = 318034.233
X = 566104.542
BK = S85°48'04.9"E
AH = N84°39'25.0"E

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 CA 1
PI STA = 216+78.77"CA"
Y = 316286.151
X = 566505.584
DELTA = 4°59'41"
D = 1°20'34"
T = 186.10'
L = 371.97'
R = 4267.02'
PC STA = 214+92.67"CA"
Y = 316100.165
X = 566512.216
PT STA = 218+64.64"CA"
Y = 316470.853

CURVE CA 4
PI STA = 231+49.99"CA"
Y = 317732.318
X = 566239.522
DELTA = 17°34'51"
D = 21°35'56"
T = 41.02'
L = 81.40'
R = 265.27'
PC STA = 231+08.97"CA"
Y = 317691.839
X = 566246.169
PT STA = 231+90.37"CA"
Y = 317768.898
X = 566220.959



PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 105	E

CRETE MON.
H BRASS CAP
17,973.5101
564,088.9500

CURVE CB 1
PI STA = 11+91.61"CB"
Y = 318251.381
X = 566167.768
DELTA = 10°49'00"
D = 3°19'45"
T = 162.94'
L = 324.91'
R = 1721.02'
PC STA = 10+28.67"CB"
Y = 318090.605
X = 566194.217
PT STA = 13+53.58"CB"
Y = 318414.264
X = 566171.960
BK = N09°20'31.7"W
AH = N01°28'28.5"E

CURVE CB 2
PI STA = 15+23.51"CB"
Y = 318584.141
X = 566176.333
DELTA = 4°34'26"
D = 5°00'00"
T = 45.76'
L = 91.48'
R = 1145.92'
PC STA = 14+77.75"CB"
Y = 318538.392
X = 566175.156
PT STA = 15+69.23"CB"
Y = 318629.649
X = 566181.155
BK = N01°28'28.5"E
AH = N06°02'54.5"E

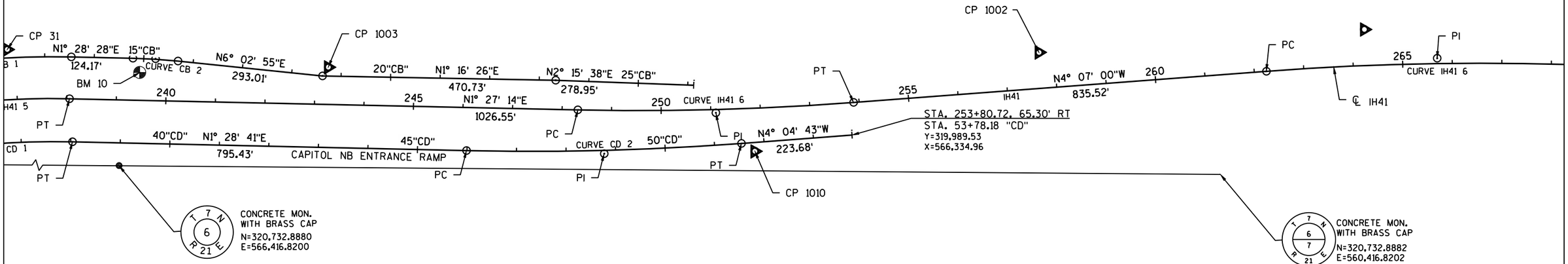
CURVE IH41 6
PI STA = 251+10.49
Y = 319714.962
X = 566289.259
DELTA = 5°34'14"
D = 1°00'00"
T = 278.74'
L = 557.04'
R = 5729.58'
PC STA = 248+31.75
Y = 319436.310
X = 566282.187
PT STA = 253+88.79
Y = 319992.985
X = 566269.249
BK = N01°27'13.7"E
AH = N04°06'59.9"W

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

2

N



PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 106	E

2

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

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

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

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 CAPITOL DR ENTRANCE RAMP
NB CAPITOL DR EXIT RAMP
CAPITOL DR FRONTAGE RD 1
CAPITOL DR FRONTAGE RD 2
EB CAPITOL DR (STH 190)
WB CAPITOL DR (STH 190)
SB IH 41
NB IH 41
GOLF GREEN
CEMETERY

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET 107	E

2

GREEN

CEMETERY

WB CAPITOL DR (STH 190)

EB CAPITOL DR (STH 190)

RD 1

RD 2

"CF1"

"CF2"

24"CF2"

26"CF2"

28"CF1"

30"CF1"

32"CF1"

28"CF2"

124"CA"

126"CA"

STH 190

MENOMONEE R.

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

N

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET 108	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\027202-AD.DWG
LAYOUT NAME - 02

PLOT DATE : 7/31/2023 4:12 PM PLOT BY : RING, STEVEN 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-FENO
STA. 243+26.40, 74.900' LT
N 318,932.8450
E 566,194.4900
ELEV. 733.954

12"CB" 14"CB" 16"CB" 18"CB" 20"CB" 22"CB" 24"CB" 26"CB"

SB CAPITOL DR EXIT RAMP

236 238 240 242 244 246 248 250

SB IH 41

NB IH 41

SB CAPITOL DR ENTRANCE RAMP

36"CD" 38"CD" 40"CD" 42"CD" 44"CD" 46"CD" 48"CD" 50"CD"

CEMETERY

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET 109	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002074\027202-AD.DWG
LAYOUT NAME - 03
PLOT DATE : 7/31/2023 4:13 PM
PLOT BY : RING, STEVEN M
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

1100-20-74

Line	Item	Item Description	Unit	Total	Qty
0002	203.0211.S	Abatement of Asbestos Containing Material (structure) 0001. B-40-330	EACH	1.000	1.000
0004	203.0211.S	Abatement of Asbestos Containing Material (structure) 0002. B-40-331	EACH	1.000	1.000
0006	203.0211.S	Abatement of Asbestos Containing Material (structure) 0003. B-40-332	EACH	1.000	1.000
0008	204.0105	Removing Concrete Pavement Butt Joints	SY	432.000	432.000
0010	213.0100	Finishing Roadway (project) 0001. 1100-20-74	EACH	1.000	1.000
0012	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	144.000	144.000
0014	415.0410	Concrete Pavement Approach Slab	SY	432.000	432.000
0016	502.0100	Concrete Masonry Bridges	CY	57.000	57.000
0018	502.3200	Protective Surface Treatment	SY	1,059.000	1,059.000
0020	502.3205	Pigmented Surface Sealer Reseal	SY	162.000	162.000
0022	502.3215	Protective Surface Treatment Reseal	SY	108.000	108.000
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	12,750.000	12,750.000
0026	509.0301	Preparation Decks Type 1	SY	665.000	665.000
0028	509.0302	Preparation Decks Type 2	SY	295.000	295.000
0030	509.0505.S	Cleaning Decks to Reapply Concrete Masonry Overlay	SY	995.000	995.000
0032	509.1200	Curb Repair	LF	205.000	205.000
0034	509.1500	Concrete Surface Repair	SF	1,315.000	1,315.000
0036	509.2000	Full-Depth Deck Repair	SY	140.000	140.000
0038	509.2500	Concrete Masonry Overlay Decks	CY	105.000	105.000
0040	509.9005.S	Removing Concrete Masonry Deck Overlay (structure) 0001. B-40-330	SY	274.000	274.000
0042	509.9005.S	Removing Concrete Masonry Deck Overlay (structure) 0002. B-40-331	SY	360.000	360.000
0044	509.9005.S	Removing Concrete Masonry Deck Overlay (structure) 0003. B-40-332	SY	361.000	361.000
0046	517.1801.S	Structure Repainting Recycled Abrasive (structure) 0001. B-40-333	EACH	1.000	1.000
0048	517.1801.S	Structure Repainting Recycled Abrasive (structure) 0002. B-40-334	EACH	1.000	1.000
0050	517.4501.S	Negative Pressure Containment and Collection of Waste Materials (structure) 0001. B-40-333	EACH	1.000	1.000
0052	517.4501.S	Negative Pressure Containment and Collection of Waste Materials (structure) 0002. B-40-334	EACH	1.000	1.000
0054	517.6001.S	Portable Decontamination Facility	EACH	2.000	2.000
0056	603.8000	Concrete Barrier Temporary Precast Delivered	LF	3,100.000	3,100.000
0058	603.8125	Concrete Barrier Temporary Precast Installed	LF	3,100.000	3,100.000
0060	603.8500	Anchoring Concrete Barrier Temporary Precast	LF	3,100.000	3,100.000
0062	619.1000	Mobilization	EACH	1.000	1.000
0064	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0066	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0068	628.7020	Inlet Protection Type D	EACH	37.000	37.000
0070	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	7.000	7.000
0072	634.0885	Posts Tubular Steel 2x2-Inch X 8.5-FT	EACH	4.000	4.000
0074	637.2210	Signs Type II Reflective H	SF	78.500	78.500
0076	637.2215	Signs Type II Reflective H Folding	SF	37.300	37.300
0078	637.2230	Signs Type II Reflective F	SF	26.000	26.000
0080	638.2102	Moving Signs Type II	EACH	5.000	5.000
0082	638.2602	Removing Signs Type II	EACH	13.000	13.000
0084	638.3000	Removing Small Sign Supports	EACH	7.000	7.000
0086	642.5201	Field Office Type C	EACH	1.000	1.000
0088	643.0300	Traffic Control Drums	DAY	19,692.000	19,692.000
0090	643.0420	Traffic Control Barricades Type III	DAY	3,483.000	3,483.000
0092	643.0705	Traffic Control Warning Lights Type A	DAY	4,472.000	4,472.000
0094	643.0715	Traffic Control Warning Lights Type C	DAY	8,220.000	8,220.000

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Line	Item	Item Description	Unit	Total	Qty
0096	643.0800	Traffic Control Arrow Boards	DAY	268.000	268.000
0098	643.0900	Traffic Control Signs	DAY	10,238.000	10,238.000
0100	643.0910	Traffic Control Covering Signs Type I	EACH	36.000	36.000
0102	643.0920	Traffic Control Covering Signs Type II	EACH	216.000	216.000
0104	643.1000	Traffic Control Signs Fixed Message	SF	1,125.000	1,125.000
0106	643.1050	Traffic Control Signs PCMS	DAY	15.000	15.000
0108	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	8,359.000	8,359.000
0110	643.3280	Temporary Marking Line Removable Tape 10-Inch	LF	2,761.000	2,761.000
0112	643.3990	Temporary Marking Removable Mask Out Tape 12-Inch	LF	811.000	811.000
0114	643.5000	Traffic Control	EACH	1.000	1.000
0116	644.1601	Temporary Pedestrian Curb Ramp	DAY	28.000	28.000
0118	644.1810	Temporary Pedestrian Barricade	LF	1,131.000	1,131.000
0120	646.1020	Marking Line Epoxy 4-Inch	LF	1,961.000	1,961.000
0122	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	200.000	200.000
0124	646.2020	Marking Line Epoxy 6-Inch	LF	1,383.000	1,383.000
0126	646.2025	Marking Line Grooved Black Epoxy 6-Inch	LF	80.000	80.000
0128	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	80.000	80.000
0130	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	450.000	450.000
0132	646.5020	Marking Arrow Epoxy	EACH	10.000	10.000
0134	646.5120	Marking Word Epoxy	EACH	5.000	5.000
0136	646.6120	Marking Stop Line Epoxy 18-Inch	LF	245.000	245.000
0138	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	11.000	11.000
0140	646.7120	Marking Diagonal Epoxy 12-Inch	LF	177.000	177.000
0142	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	212.000	212.000
0144	646.8120	Marking Curb Epoxy	LF	206.000	206.000
0146	646.9000	Marking Removal Line 4-Inch	LF	2,961.000	2,961.000
0148	646.9002	Marking Removal Line 6-Inch	LF	212.000	212.000
0150	646.9100	Marking Removal Line 8-Inch	LF	405.000	405.000
0152	646.9200	Marking Removal Line Wide	LF	516.000	516.000
0154	646.9300	Marking Removal Special Marking	EACH	26.000	26.000
0156	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	900.000	900.000
0158	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,700.000	2,700.000
0160	SPV.0060	Special 0001. Temporary Sidewalk Lighting	EACH	2.000	2.000
0162	SPV.0060	Special 4000. Embedded Galvanic Anodes	EACH	640.000	640.000
0164	SPV.0060	Special 4051. Temporary Span Support B-40-330	EACH	2.000	2.000
0166	SPV.0060	Special 4052. Temporary Span Support B-40-331	EACH	2.000	2.000
0168	SPV.0060	Special 4053. Temporary Span Support B-40-332	EACH	2.000	2.000
0170	SPV.0060	Special 4061. Temporary Pier Support B-40-330	EACH	2.000	2.000
0172	SPV.0060	Special 4062. Temporary Pier Support B-40-331	EACH	2.000	2.000
0174	SPV.0060	Special 4063. Temporary Pier Support B-40-332	EACH	2.000	2.000
0176	SPV.0165	Special 4000. Removing Loose Concrete	SF	160.000	160.000

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MOBILIZATION

CATEGORY	PROJECT	619.1000 MOBILIZATION EACH
1000	1100-20-74	1
	TOTAL	1

FIELD OFFICE

CATEGORY	PROJECT	642.5201 FIELD OFFICE TYPE C EACH
1000	1100-20-74	1
	TOTAL	1

TRAFFIC CONTROL

CATEGORY	PROJECT	643.5000 TRAFFIC CONTROL EACH
1000	1100-20-74	1
	TOTAL	1

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REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	204.0105 REMOVING CONCRETE PAVEMENT BUTT JOINTS SY
1000	19+38	-	19+56	Harley Davidson Access Road	62
	20+44	-	20+62	Harley Davidson Access Road	62
	22+77	-	23+25	Capitol Drive Frontage Road 1	70
	23+92	-	24+45	Capitol Drive Frontage Road 1	86
	18+75	-	19+29	Capitol Drive Frontage Road 2	79
	19+96	-	20+44	Capitol Drive Frontage Road 2	73
				TOTAL	432

CONCRETE PAVEMENT APPROACH SLAB

CATEGORY	STATION	TO	STATION	LOCATION	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY
1000	19+38	-	19+56	Harley Davidson Access Road	21	62
	20+44	-	20+62	Harley Davidson Access Road	21	62
	22+77	-	23+25	Capitol Drive Frontage Road 1	23	70
	23+92	-	24+45	Capitol Drive Frontage Road 1	29	86
	18+75	-	19+29	Capitol Drive Frontage Road 2	26	79
	19+96	-	20+44	Capitol Drive Frontage Road 2	24	73
				TOTAL	144	432

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FINISHING ROADWAY

CATEGORY	PROJECT	213.0100.0001 FINISHING ROADWAY 1100-20-74 EACH
1000	1100-20-74	1
	TOTAL	1

MOBILIZATION EROSION CONTROL

CATEGORY	PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
1000	1100-20-74	1	1
	TOTAL	1	1

INLET PROTECTION

CATEGORY	STATION	OFFSET	LOCATION	628.7020 INLET PROTECTION TYPE D EACH
1000	19+44	29' RT	Capitol Drive Frontage Road 1	1
	19+75	35' RT	Capitol Drive Frontage Road 1	1
	19+95	34' LT	Capitol Drive Frontage Road 1	1
	19+99	12' RT	Capitol Drive Frontage Road 1	1
	21+98	44' RT	Capitol Drive Frontage Road 1	1
	22+11	12' RT	Capitol Drive Frontage Road 1	1
	22+65	17' RT	Capitol Drive Frontage Road 1	1
	22+67	31' RT	Capitol Drive Frontage Road 1	1
	22+80	12' RT	Capitol Drive Frontage Road 1	1
	22+81	36' RT	Capitol Drive Frontage Road 1	1
	23+05	34' RT	Capitol Drive Frontage Road 1	1
	24+21	8' RT	Capitol Drive Frontage Road 1	1
	24+27	24' RT	Capitol Drive Frontage Road 1	1
	24+52	23' RT	Capitol Drive Frontage Road 1	1
	24+92	16' RT	Capitol Drive Frontage Road 1	1
	24+94	32' RT	Capitol Drive Frontage Road 1	1
	24+96	6' RT	Capitol Drive Frontage Road 1	1
	24+98	18' RT	Capitol Drive Frontage Road 1	1
	25+13	37' RT	Capitol Drive Frontage Road 1	1
	15+61	28' LT	Capitol Drive Frontage Road 2	1
	15+67	27' RT	Capitol Drive Frontage Road 2	1
	16+08	34' LT	Capitol Drive Frontage Road 2	1
	16+40	1' LT	Capitol Drive Frontage Road 2	1
	16+40	33' RT	Capitol Drive Frontage Road 2	1
	17+93	22' RT	Capitol Drive Frontage Road 2	1
	18+11	42' LT	Capitol Drive Frontage Road 2	1
	18+20	12' LT	Capitol Drive Frontage Road 2	1
	18+24	73' LT	Capitol Drive Frontage Road 2	1
	18+26	25' LT	Capitol Drive Frontage Road 2	1
	18+31	37' LT	Capitol Drive Frontage Road 2	1
	18+41	66' LT	Capitol Drive Frontage Road 2	1
	18+71	13' LT	Capitol Drive Frontage Road 2	1
	18+74	31' RT	Capitol Drive Frontage Road 2	1
	20+11	6' LT	Capitol Drive Frontage Road 2	1
	20+41	29' LT	Capitol Drive Frontage Road 2	1
	20+45	30'RT	Capitol Drive Frontage Road 2	1
	20+70	31' LT	Capitol Drive Frontage Road 2	1
			TOTAL	37

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FIXED MESSAGE SIGNS

CATEGORY	STAGE	LOCATION	SIZE	SF	NO. OF SIGNS	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	NOTES
1000	STAGE 1C						
		IH-41 NB	120" X 90"	75	1	75	"HWY 190 WEST CAPITOL DR RAMP CLOSED USE EXIT 45"
		CAPITOL DRIVE	90" X 48"	30	2	60	"CAPITOL DR RAMP TO I-41 NORTH CLOSED USE ALT ROUTE"
			60" X 24"	10	2	20	"I-41 SOUTH LEFT LANE"
			60" X 21"	9	2	18	"CAPITOL DR RIGHT LANE"
					SUBTOTAL	173	
	STAGE 1D						
		IH-41 NB	120" X 90"	75	1	75	"HWY 190 WEST CAPITOL DR RAMP CLOSED USE EXIT 45"
		IH-41 SB	120" X 90"	75	1	75	"HWY 190 EAST CAPITOL DR RAMP CLOSED USE EXIT 45"
		BURLEIGH STREET	84" X "48"	28	2	56	"I-41 RAMP CLOSED TO WEST CAPITOL DR USE ALT ROUTE"
		CAPITOL DRIVE	90" X 48"	30	4	120	"CAPITOL DR RAMP TO I-41 NORTH CLOSED USE ALT ROUTE"
			90" X 48"	30	4	120	"CAPITOL DR RAMP TO I-41 SOUTH CLOSED USE ALT ROUTE"
		HAMPTON AVENUE	84" X "48"	28	1	28	"I-41 RAMP CLOSED TO EAST CAPITOL DR USE ALT ROUTE"
					SUBTOTAL	474	
	STAGE 2						
		IH-41 SB	120" X 90"	75	2	150	"HWY 190 EAST CAPITOL DR RAMP CLOSED USE EXIT 43"
			120" X 90"	75	1	75	"HWY 190 EAST CAPITOL DR RAMP CLOSED USE EXIT 45"
		CAPITOL DRIVE	90" X 48"	30	4	120	"CAPITOL DR RAMP TO I-41 SOUTH CLOSED USE ALT ROUTE"
			84" X "36"	21	5	105	"I-41 RAMP CLOSED TO EAST CAPITOL DR"
			84" X "48"	28	1	28	"I-41 RAMP CLOSED TO EAST CAPITOL DR USE ALT ROUTE"
					SUBTOTAL	478	
					TOTAL	1,125	

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PAVEMENT MARKING REMOVALS

CATEGORY	LOCATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9002 MARKING REMOVAL LINE 6-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH
1000	CAPITOL DRIVE INTERCHANGE	800	212	405	516	26
	CAPITOL DRIVE LOWER	1,961	--	--	--	--
	UNDISTRIBUTED	200	--	--	--	--
	TOTAL	2,961	212	405	516	26

PAVEMENT MARKINGS

CATEGORY	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH LF	646.2020 MARKING LINE EPOXY 6-INCH WHITE LF	646.2020 MARKING LINE EPOXY 6-INCH YELLOW LF	646.2025 MARKING LINE GROOVED BLACK EPOXY 6-INCH LAGGED 12.5 FT LINE LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH DASHED WHITE - 12.5 FT LINE, 37.5 FT SKIP LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH WHITE LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH DASHED WHITE - 2 FT LINE, 6 FT SKIP LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.6220 MARKING YIELD LINE EPOXY 18-INCH EACH	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.8120 MARKING CURB EPOXY YELLOW LF
1000	HARLEY DAVIDSON ACCESS ROAD	--	--	--	174	--	--	--	--	--	--	27	--	--	--	--
	CAPITOL DRIVE INTERCHANGE	--	--	638	571	80	80	356	94	10	5	218	11	177	212	206
	CAPITOL DRIVE LOWER	1,961	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	UNDISTRIBUTED	--	200	--	--	--	--	--	--	--	--	--	--	--	--	--
	TOTAL	1,961	200	1,383		80	80	450		10	5	245	11	177	212	206

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TRAFFIC CONTROL

CATEGORY	LOCATION	DAYS	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	603.8500 ANCHORING CONCRETE BARRIER TEMPORARY PRECAST LF	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I # OF SIGNS	643.0910 # OF CYCLES	643.0910 EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II # OF SIGNS	643.0920 # OF CYCLES	643.0920 EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY
1000	CAPITOL DRIVE I/C AND FRONTAGE ROADS																		
	STAGE 1A	14	--	--	--	742	168	112	140	28	420	--	--	--	--	--	--	--
	STAGE 1B	60	--	--	--	2,580	720	480	600	120	1,680	--	--	--	--	--	--	--
	STAGE 1C	60	--	--	--	6,780	1,500	1,920	2,820	--	3,660	3	1	3	18	1	18	--
	STAGE 1D	5	--	--	--	560	240	250	400	--	315	6	5	30	17	5	85	15
	STAGE 2	45	--	--	--	4,320	585	1,170	1,890	--	1,755	--	--	--	13	1	13	--
	CAPITOL DRIVE LOWER																		
	OUTSIDE LANE CLOSURE	30	1,517	1,517	1,517	1,800	150	300	1,050	60	960	1	1	1	--	--	--	--
	INNER LANE CLOSURE	30	1,583	1,583	1,583	2,910	120	240	1,320	60	840	2	1	2	--	--	--	--
	STAGE 1C																		
	DETOUR 1	60	--	--	--	--	--	--	--	--	38	--	--	--	--	--	--	--
	DETOUR 3	60	--	--	--	--	--	--	--	--	68	--	--	--	--	--	--	--
	DETOUR 4	60	--	--	--	--	--	--	--	--	56	--	--	--	--	--	--	--
	STAGE 1D																		
	DETOUR 1	5	--	--	--	--	--	--	--	--	38	--	--	--	--	--	--	--
	DETOUR 2	5	--	--	--	--	--	--	--	--	52	--	--	--	--	--	--	--
	DETOUR 3	5	--	--	--	--	--	--	--	--	58	--	--	--	--	--	--	--
	DETOUR 4	5	--	--	--	--	--	--	--	--	56	--	--	--	--	--	--	--
	DETOUR 6	5	--	--	--	--	--	--	--	--	68	--	--	--	2	5	10	--
	STAGE 2																		
	DETOUR 2	45	--	--	--	--	--	--	--	--	56	--	--	--	--	--	--	--
	DETOUR 5	45	--	--	--	--	--	--	--	--	58	--	--	--	--	--	--	--
	DETOUR 6	45	--	--	--	--	--	--	--	--	60	--	--	--	2	45	90	--
	TOTAL		3,100	3,100	3,100	19,692	3,483	4,472	8,220	268	10,238			36			216	15

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TRAFFIC CONTROL (CONTINUED)

CATEGORY	LOCATION	DAYS	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH LF	643.3280 TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH LF	643.3990 TEMPORARY MARKING REMOVABLE MASK OUT TAPE 12-INCH LF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	SPV.0060.0001 TEMPORARY SIDEWALK LIGHTING EACH
1000	CAPITOL DRIVE I/C AND FRONTAGE ROADS							
	STAGE 1A	14	--	--	--	28	329	--
	STAGE 1B	60	--	--	--	--	134	--
	STAGE 1C	60	1,097	837	114	--	668	--
	STAGE 1D	5	928	649	--	--	--	--
	STAGE 2	45	688	649	38	--	--	2
	CAPITOL DRIVE LOWER							
	OUTER LANE CLOSURE	30	849	232	270	--	--	--
	INNER LANE CLOSURE	30	4,797	394	389	--	--	--
	STAGE 1C							
	DETOUR 1	60	--	--	--	--	--	--
	DETOUR 3	60	--	--	--	--	--	--
	DETOUR 4	60	--	--	--	--	--	--
	STAGE 1D							
	DETOUR 1	5	--	--	--	--	--	--
	DETOUR 2	5	--	--	--	--	--	--
	DETOUR 3	5	--	--	--	--	--	--
	DETOUR 4	5	--	--	--	--	--	--
	DETOUR 6	5	--	--	--	--	--	--
	STAGE 2							
	DETOUR 2	45	--	--	--	--	--	--
	DETOUR 5	45	--	--	--	--	--	--
	DETOUR 6	45	--	--	--	--	--	--
	TOTAL		8,359	2,761	811	28	1,131	2

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SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"X18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	634.0885 POSTS TUBULAR STEEL 2 X 2 INCH X 8.5 FT (EA)	REMARKS / NEW SIGN LOCATION
1	R1-1									1	1	1			
2	W4-4P											1	1		
3	R10-6(2S)		24	X	36	6.000			1						MOUNT ON TOP OF PARAPET WALL. REUSE EXISTING BRACKET AND POST. INCIDENTAL
4	W5-52L(2S)		12	X	36			3.000	1						MOUNT ON TOP OF PARAPET WALL. REUSE EXISTING BRACKET AND POST. INCIDENTAL
5	R1-1F(3)		36	X	36		7.460						4		MOUNT ON TOP OF PARAPET WALL. REUSE EXISTING BRACKET AND POST. INCIDENTAL
6	R4-9(2S)		24	X	30	5.000			1	1	1				
7	R1-1F(3)		36	X	36		7.460		1						MOUNT ON TOP OF PARAPET WALL. REUSE EXISTING BRACKET AND POST. INCIDENTAL
8	W5-52L(2S)		12	X	36			3.000	1				7		MOUNT ON TOP OF PARAPET WALL. REUSE EXISTING BRACKET AND POST. INCIDENTAL
9	J3-1(2S)		24	X	81	13.500			1	1	1				
	MB3-1		24	X	12										
	M1-1	IH 41	24	X	24										
	M1-4	USH 45	24	X	24										
	MB6-1		21	X	21										
10	J3-2(2S)		48	X	69	23.000			1	2	2				
	M3-4		24	X	12										
	M1-6	STH 190	24	X	24										
	M6-1		21	X	21										
	MB4-1		24	X	12										
	MB3-4		24	X	12										
	M1-1	IH 94	24	X	24										
	MB6-1		21	X	21										
11	R1-1F(3)		36	X	36		7.460								MOUNT ON SIGNAL POLE
12	R10-6R(2S)		24	X	36	6.000			1				10		ARROW DOWN RIGHT REMOVAL OF OLD SIGN PART OF # 10
13	R1-1F(3)		36	X	36		7.460		1						SIGNAL POLE
14	R6-2R(2S)		24	X	30	5.000			1						SIGNAL POLE ABOVE FOLDING STOP
15	R1-1F(3)		36	X	36		7.460		1						MOUNT ON TOP OF PARAPET WALL. REUSE EXISTING BRACKET AND POST. INCIDENTAL
	UNDISTRIBUTED					20.000		20.000	2	2	2	3		4	
	TOTALS					78.500	37.300	26.000	13	7	7	5		4	

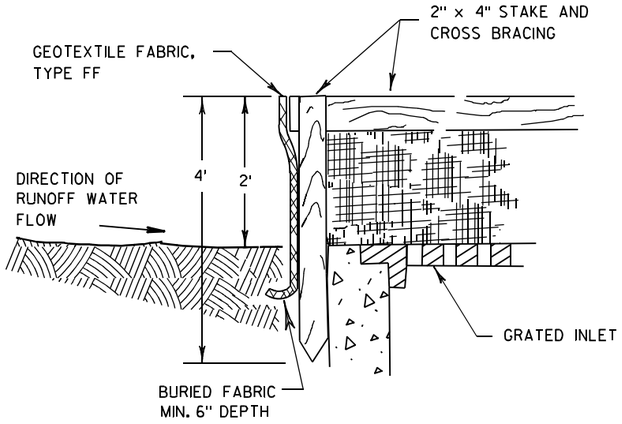
SHEET 1 OF 1

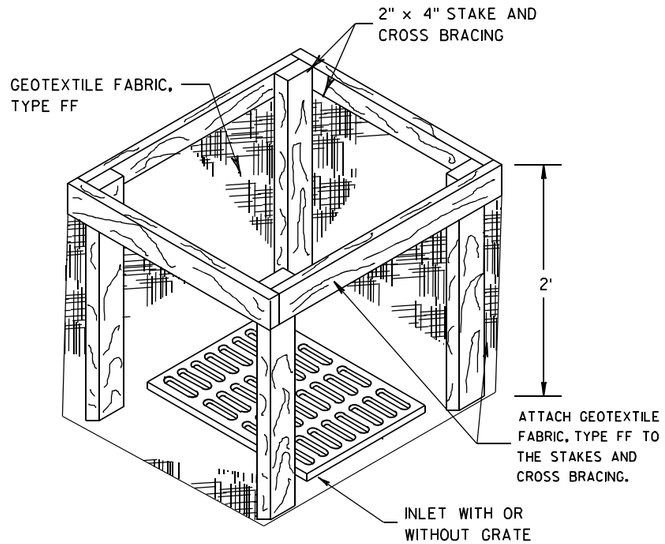
PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

Standard Detail Drawing List

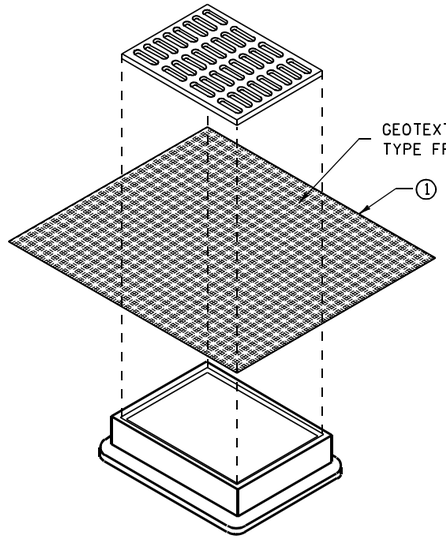
08E10-02	INLET PROTECTION TYPE A, B, C AND D
12A03-10	NAME PLATE (STRUCTURES)
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-08F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
14B07-16A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16J	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16K	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16L	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16M	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16N	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09D	ON RAMP LANE CLOSURE
15C02-09E	OFF RAMP LANE CLOSURE
15C02-09G	TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-08C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-11A	TRAFFIC CONTROL, LANE CLOSURE
15D20-07A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D20-07B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-07C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D30-08A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-08C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D50-03B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

6



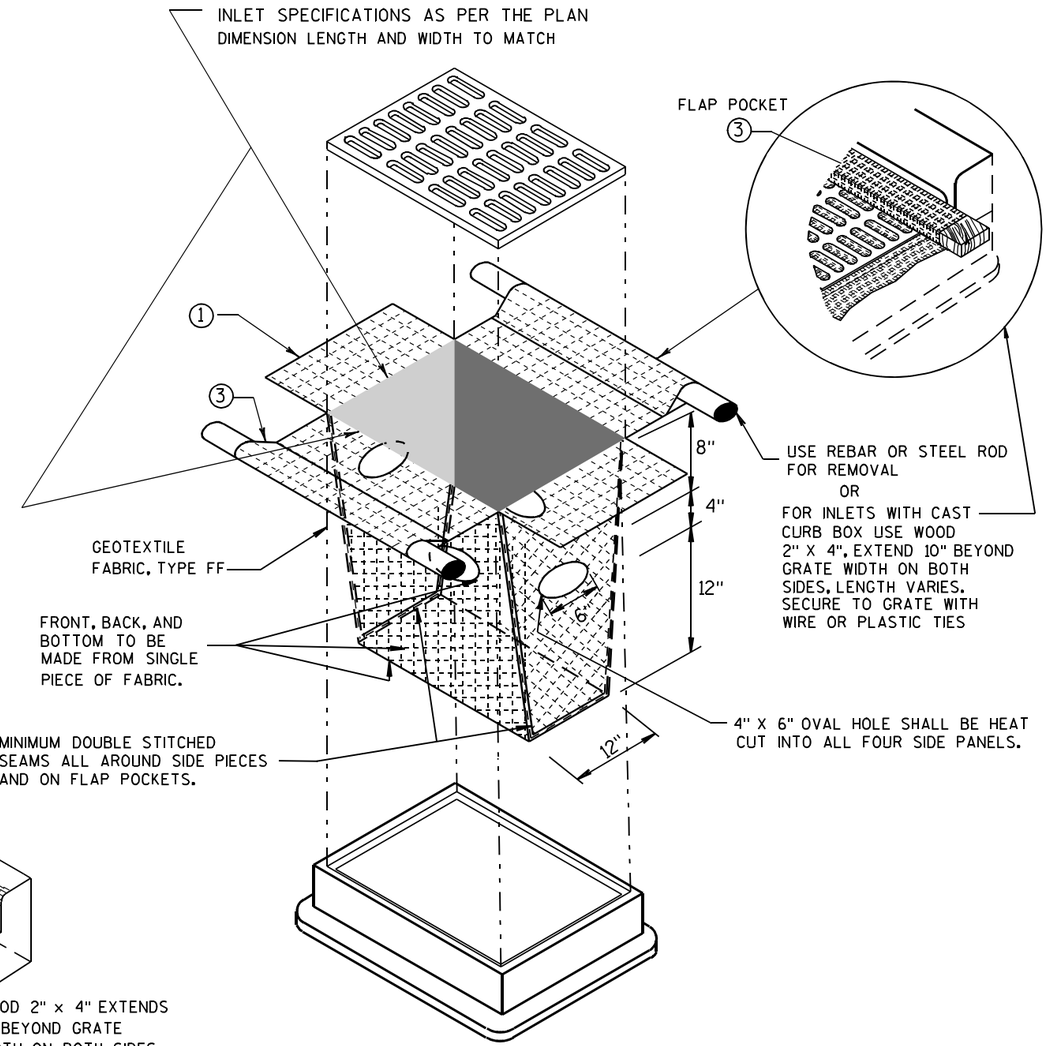


INLET PROTECTION, TYPE A



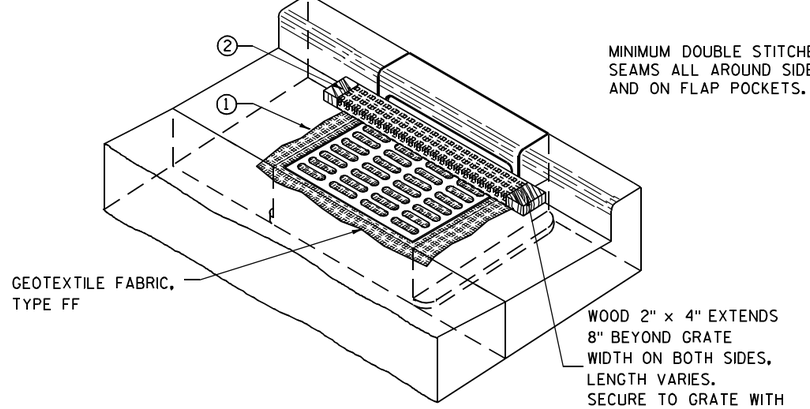
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

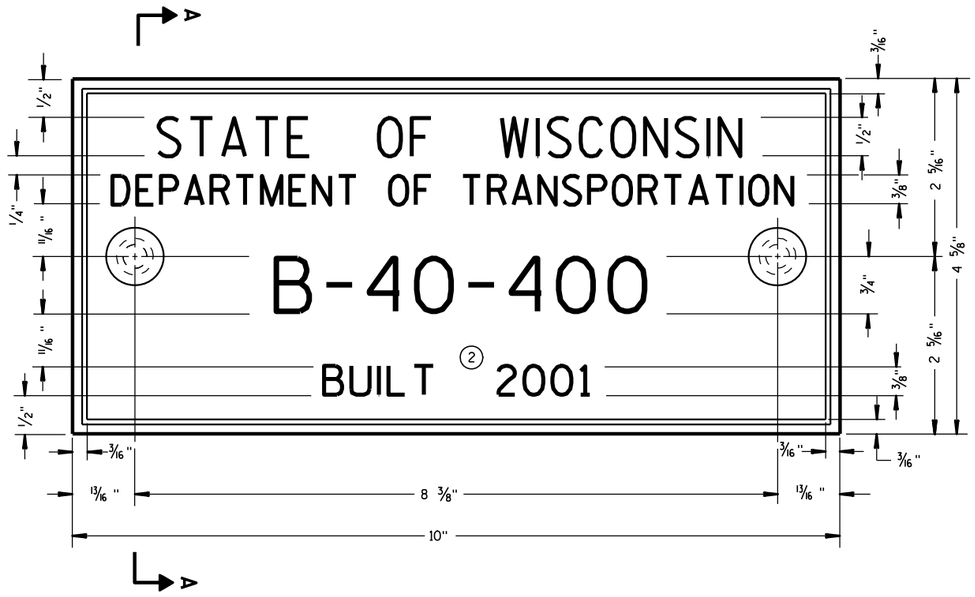
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

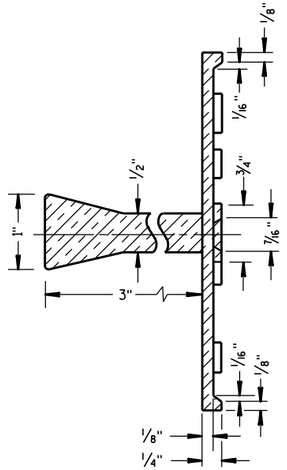
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

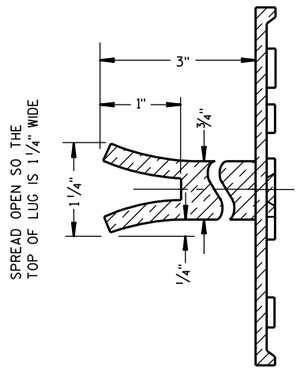
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

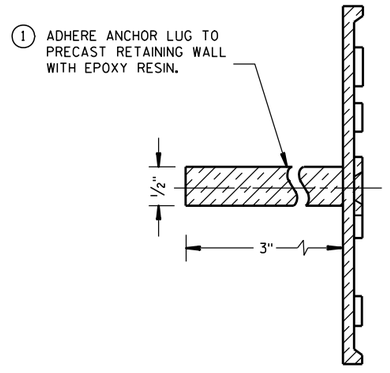
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

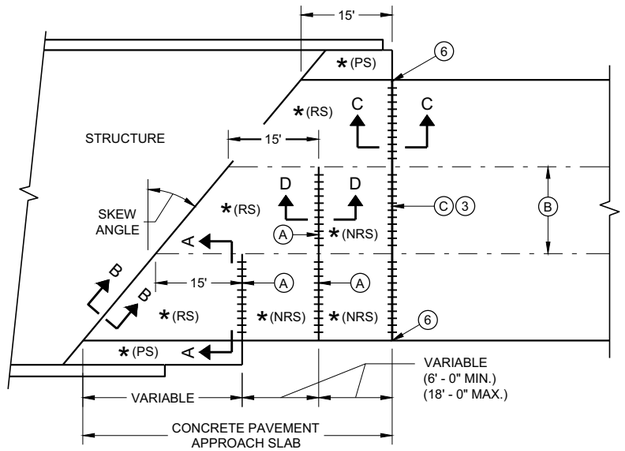
3/26/10 DATE

/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP ENGINEER

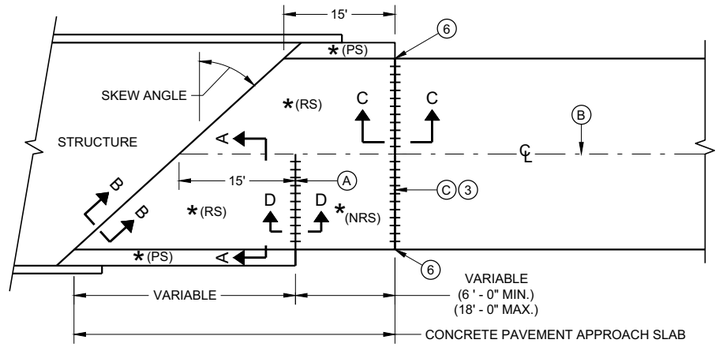
FHWA

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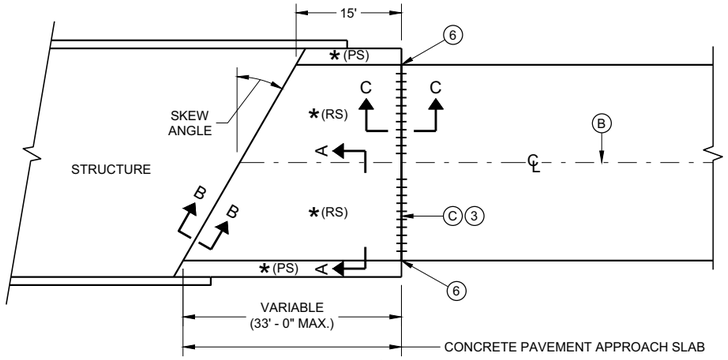
S.D.D. 12 A 3-10



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

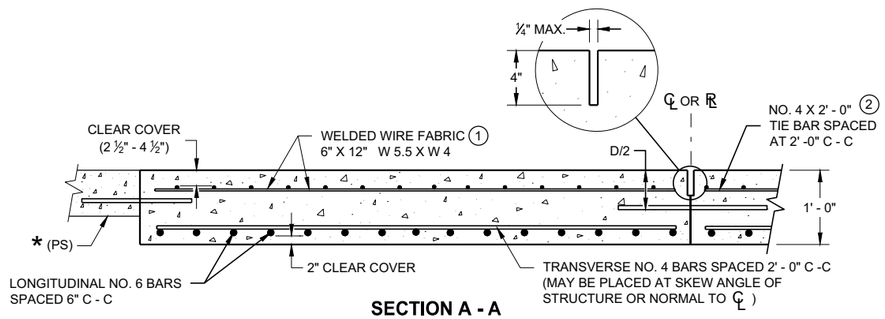
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

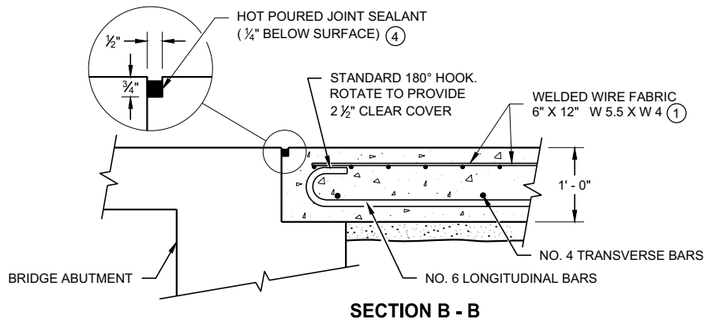
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

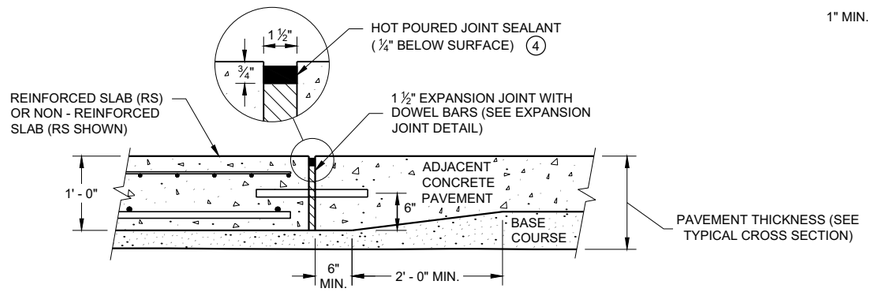
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

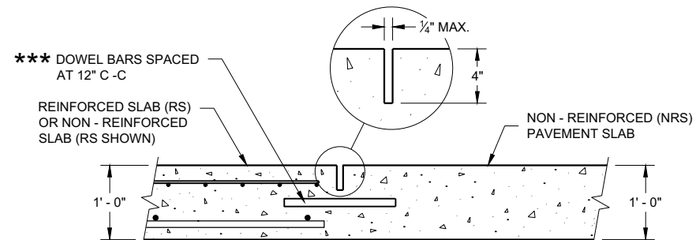
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

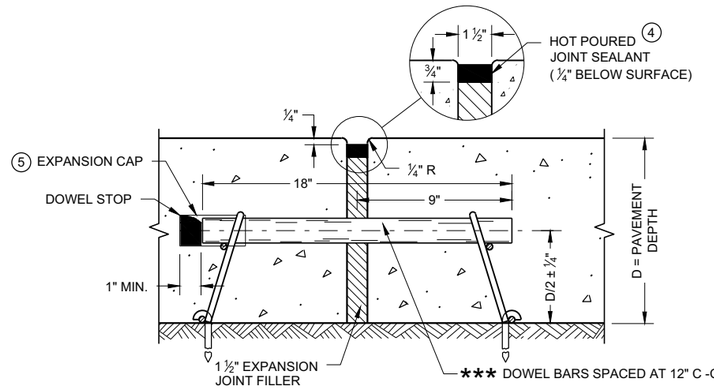
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

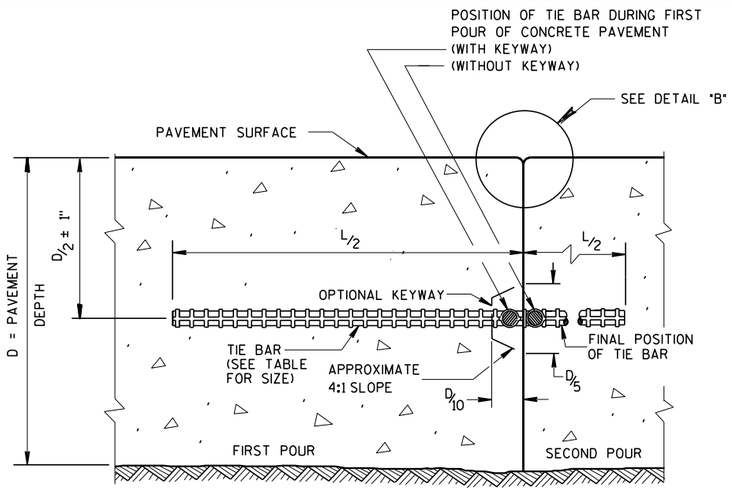
APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVIS

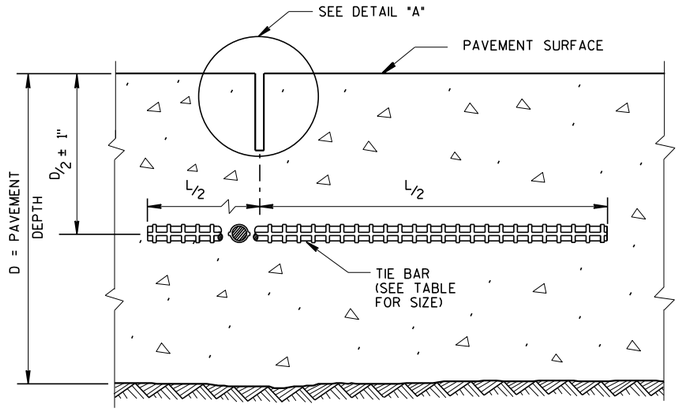
FHWA

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SDD 13B02 - 09a



CONSTRUCTION JOINT



SAWED JOINT

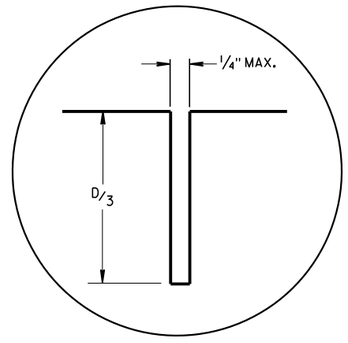
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

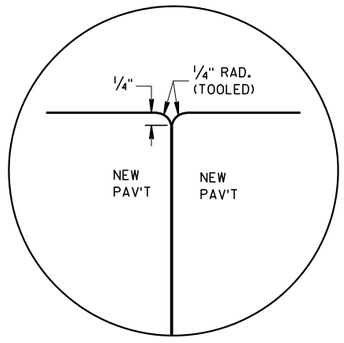
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

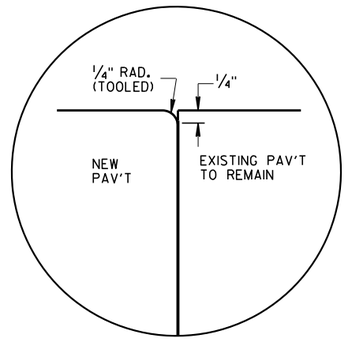
(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



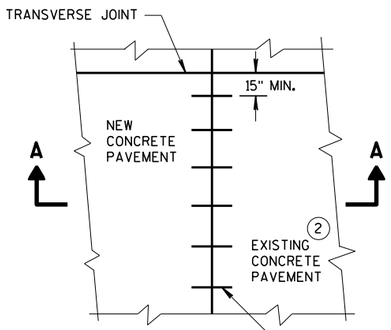
DETAIL "A"



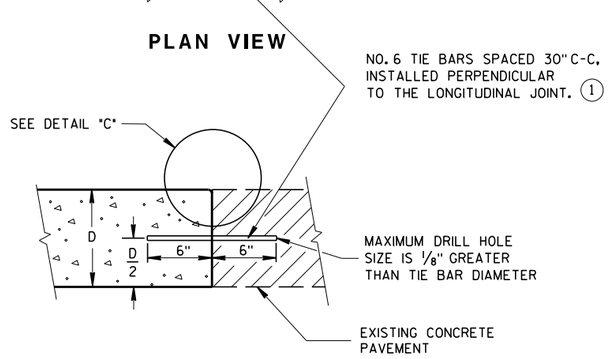
DETAIL "B"



DETAIL "C"



PLAN VIEW



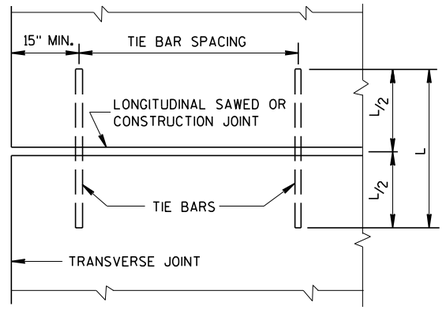
SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

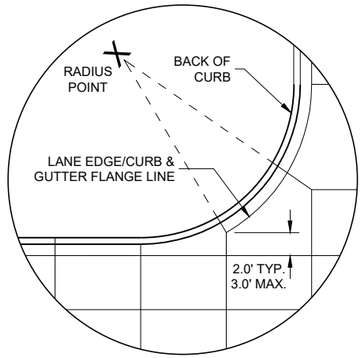
APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

6

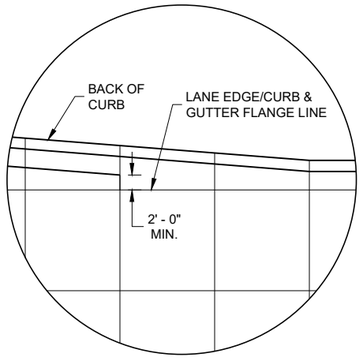
S.D.D. 13 C 1-19

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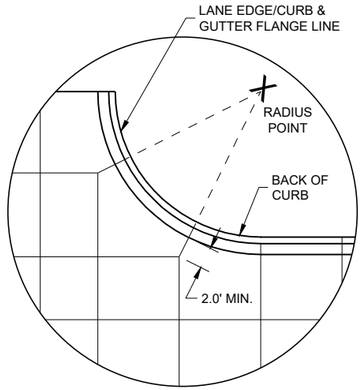
S.D.D. 13 C 1-19



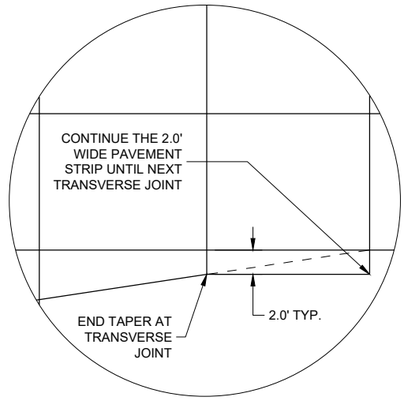
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

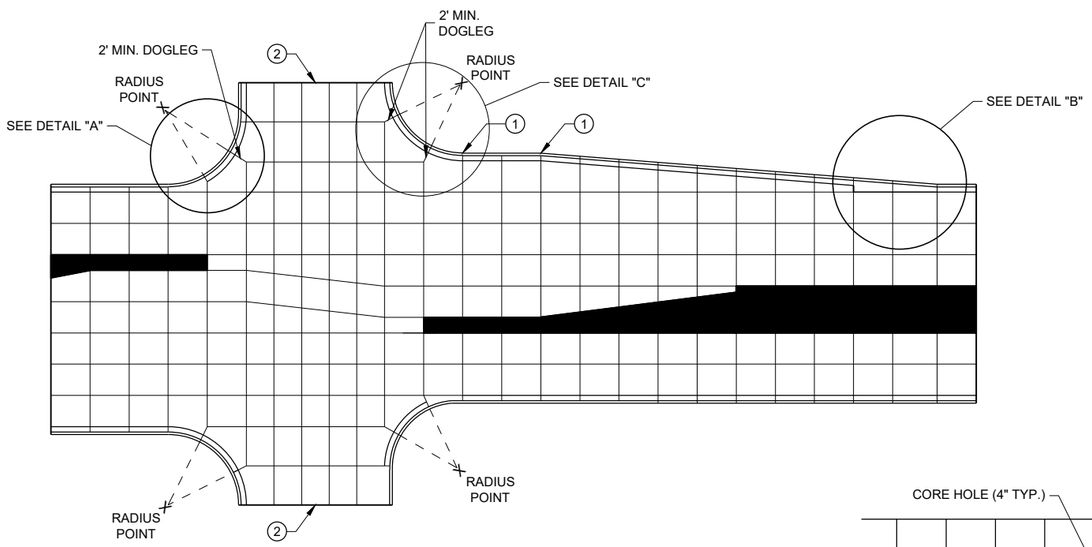
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.

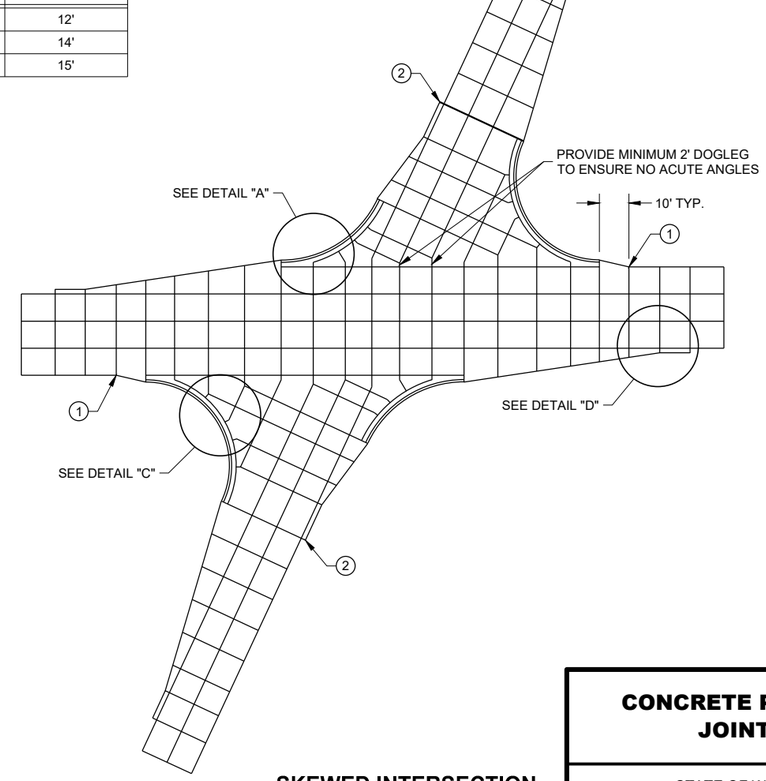
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



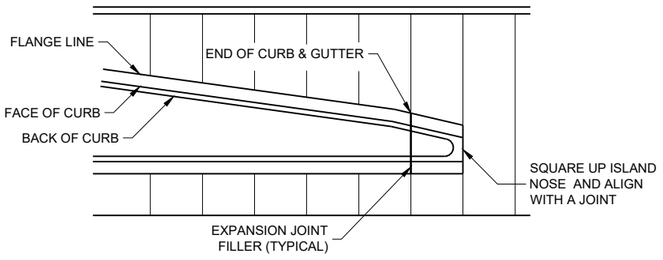
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

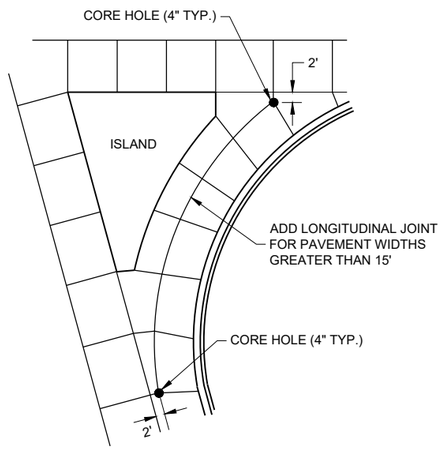
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08a

6

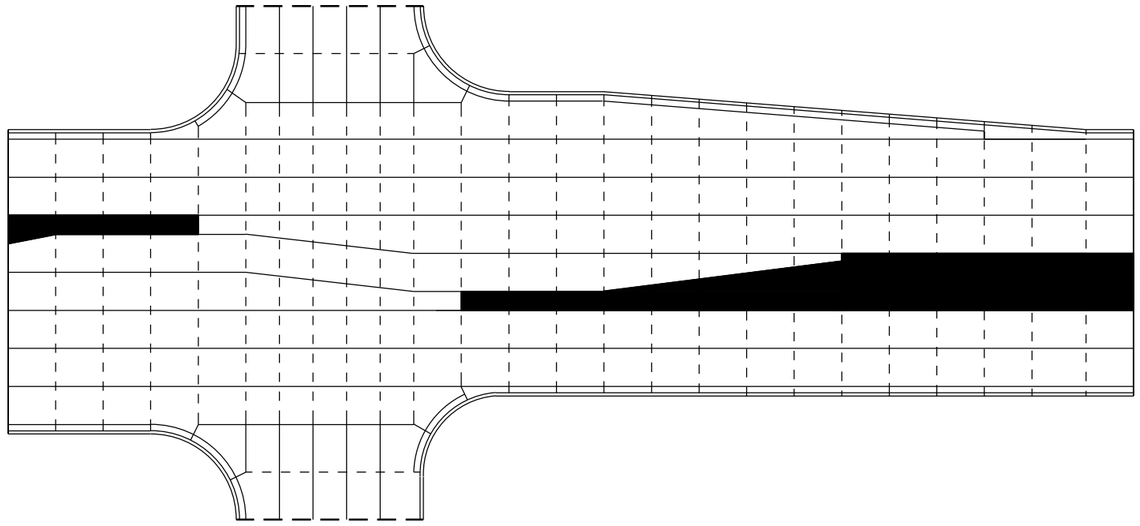
SDD 13C18 - 08a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

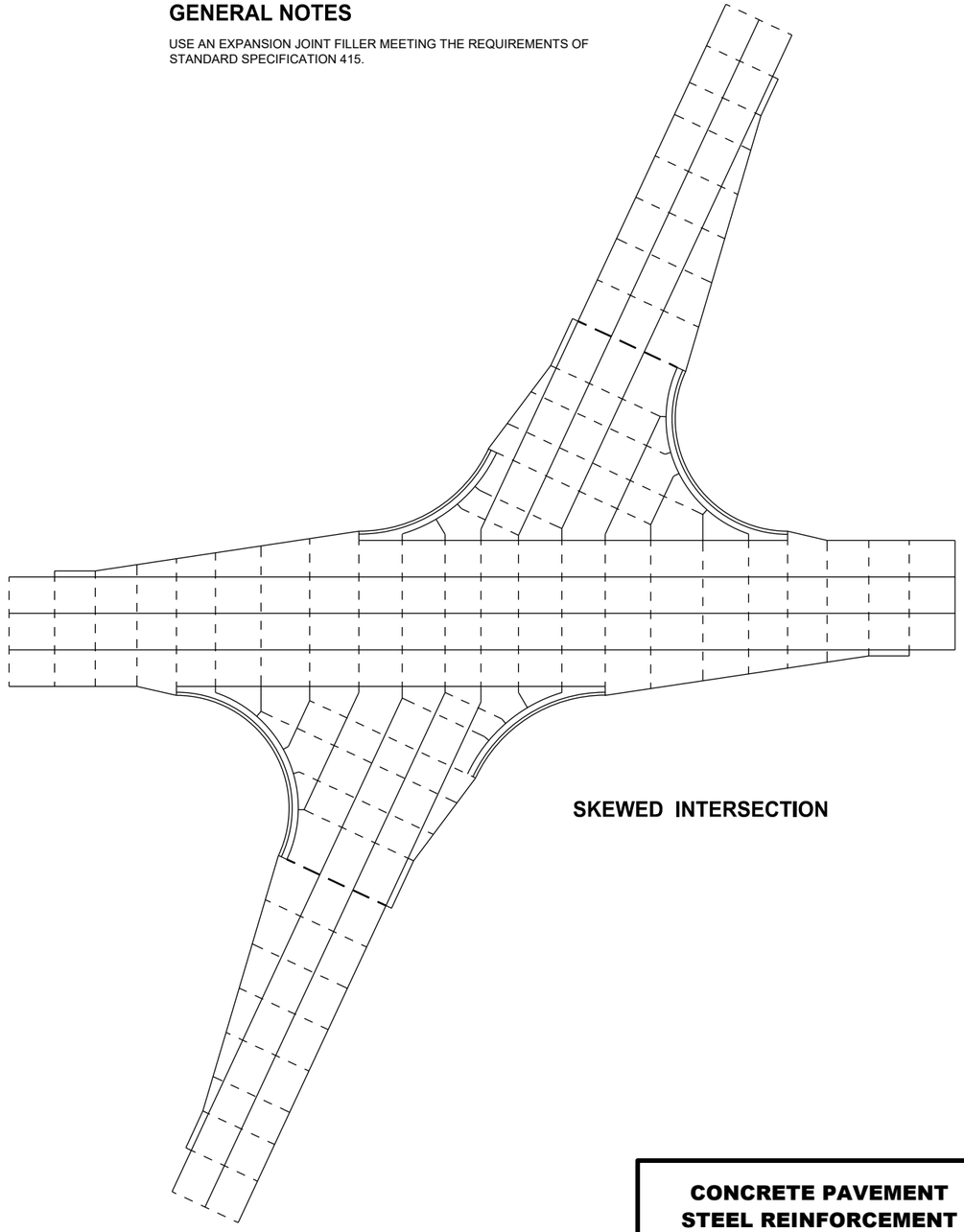
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

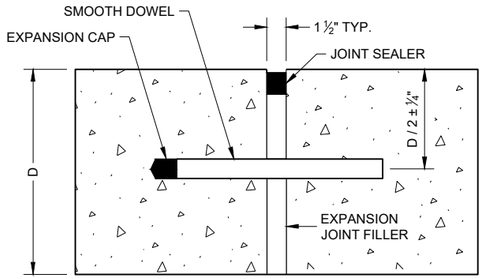
SDD 13C18 - 08b

CONCRETE PAVEMENT STEEL REINFORCEMENT

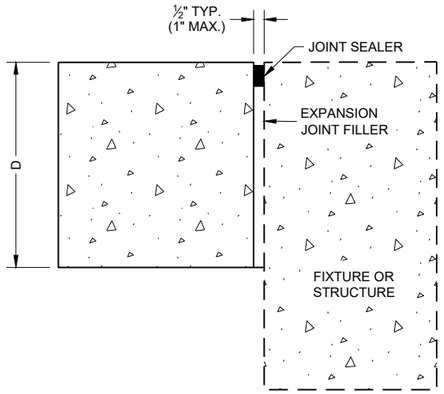
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

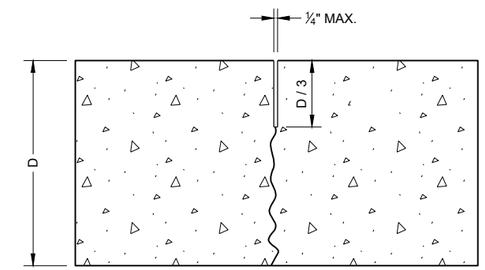
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

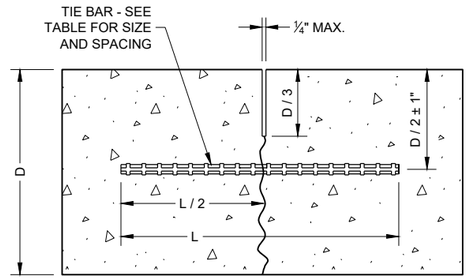
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

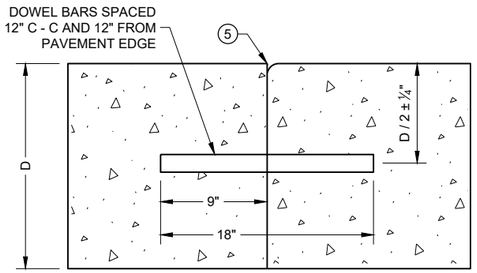
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



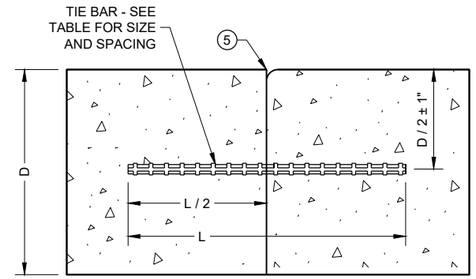
UNDOWELED TRANSVERSE



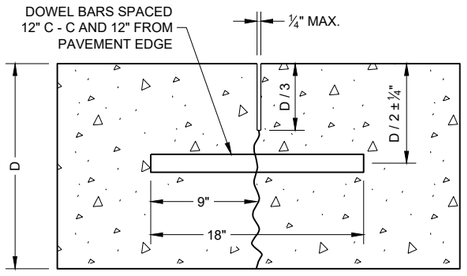
TIED LONGITUDINAL



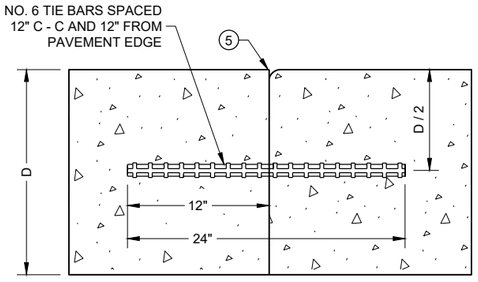
DOWELED TRANSVERSE (3)



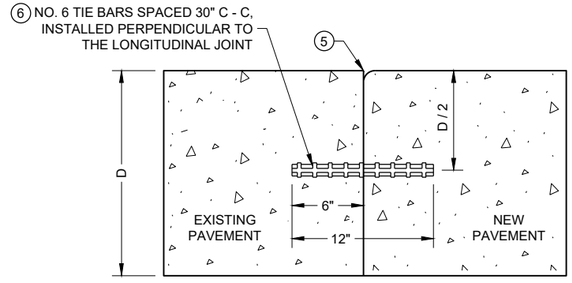
TIED LONGITUDINAL



DOWELED TRANSVERSE



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)

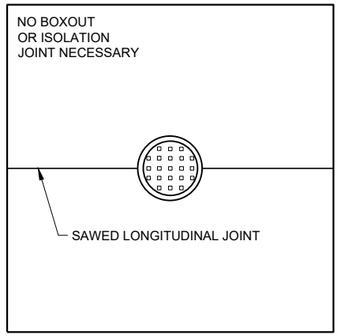


TIED LONGITUDINAL TO EXISTING

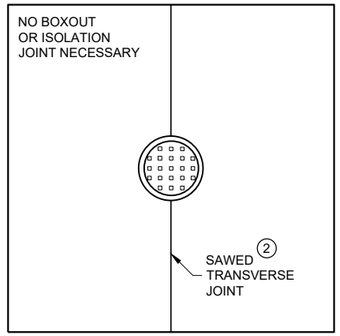
CONTRACTION JOINTS (2)

CONSTRUCTION JOINTS (4)

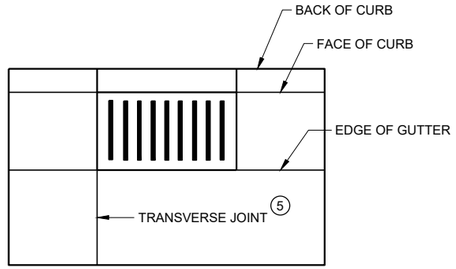
CONCRETE PAVEMENT JOINT TYPES



MANHOLE WITH LONGITUDINAL JOINT



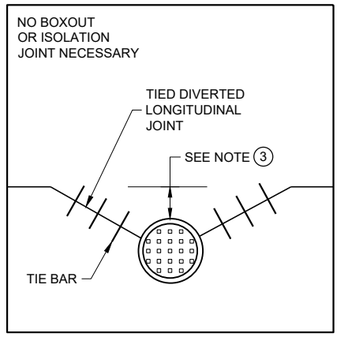
MANHOLE WITH TRANSVERSE JOINT



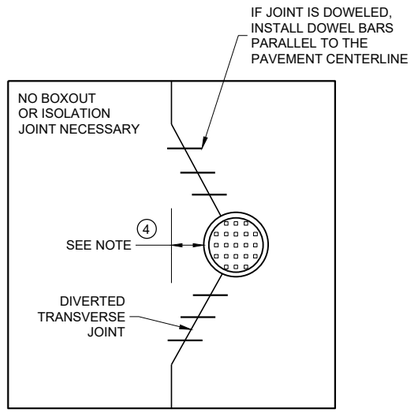
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

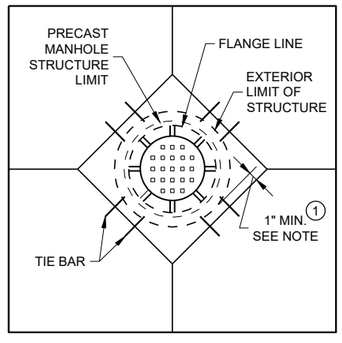
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPERVISO

FHWA

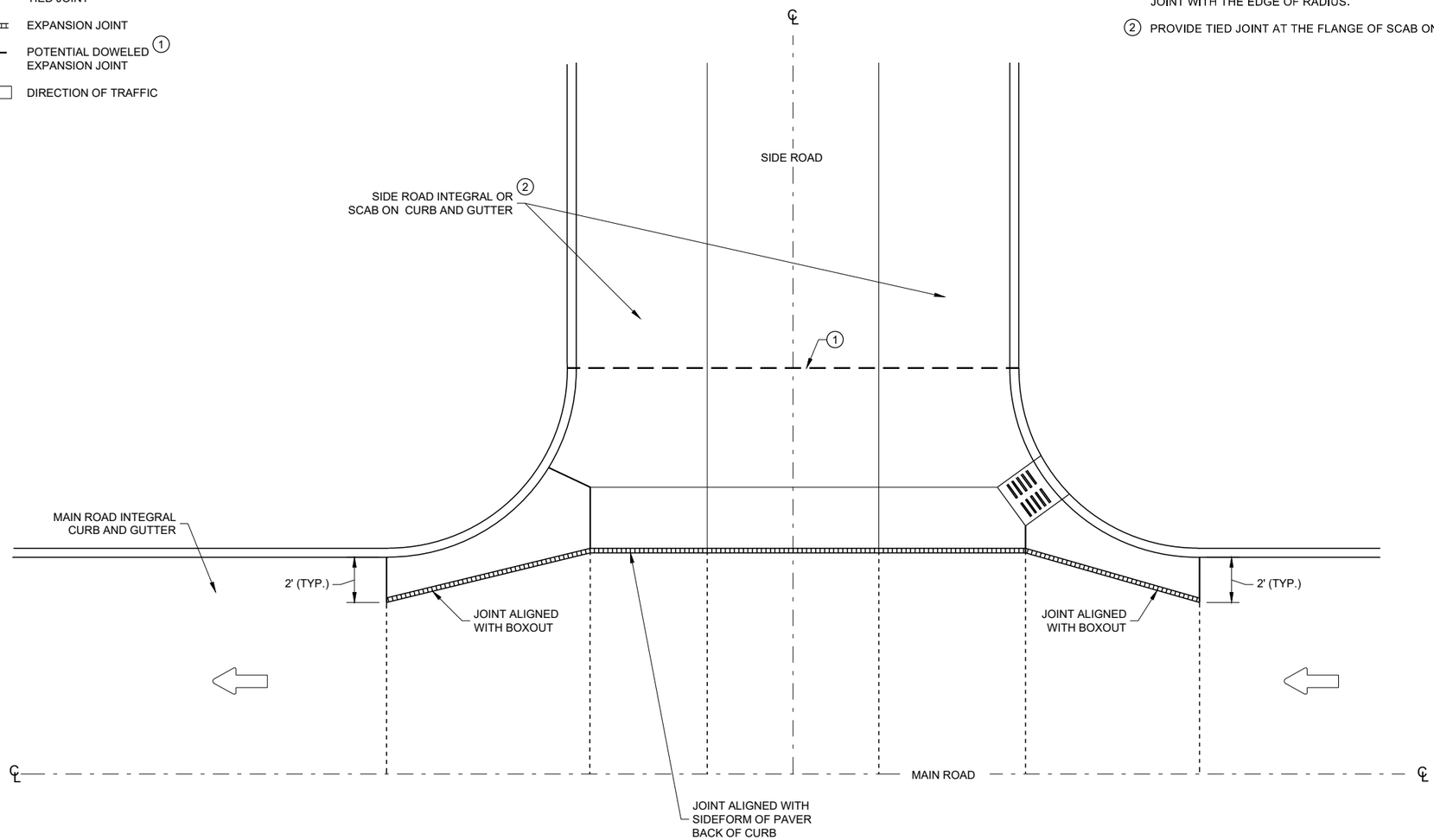
6

SDD13C18 - 08d

SDD13C18 - 08d

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

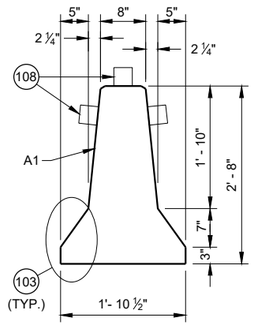
FHWA

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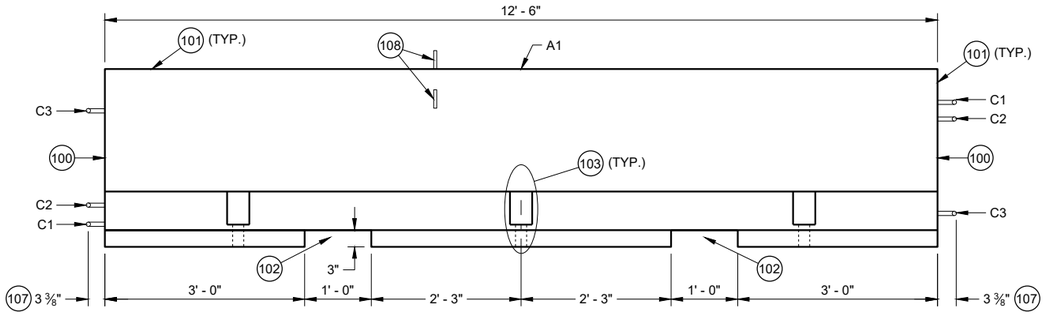
SDD 13C18 - 08f

6

SDD 13C18 - 08f



CROSS SECTION



PROFILE VIEW

GENERAL NOTES

PLACE BARRIER ON PAVED SURFACE. BEFORE PLACEMENT OF TEMPORARY BARRIER, REMOVE ALL LOOSE MATERIAL FROM PAVED SURFACE.

LOOP BARS C1, C2 AND C3 ARE NOT FOR PLACEMENT OR MOVEMENT OF BARRIER.

(100) PERMANENTLY FORM INTO ONE END OF BARRIER THE FOLLOWING INFORMATION:
- A. TYPE OF BARRIER: WI-CBTP
- B. MANUFACTURER
- C. DATE OF MANUFACTURE (MONTH AND YEAR)

(101) 1" OPTIONAL CHAMFER

(102) SEE LIFTING SLOT DETAIL

(103) SEE ANCHOR BLOCK DETAIL

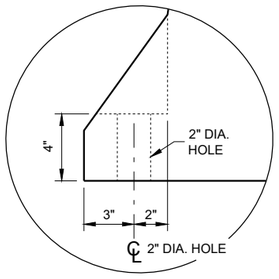
(104) 1 ¼" MIN. CLEAR COVER

(105) 2" MIN. CLEAR COVER

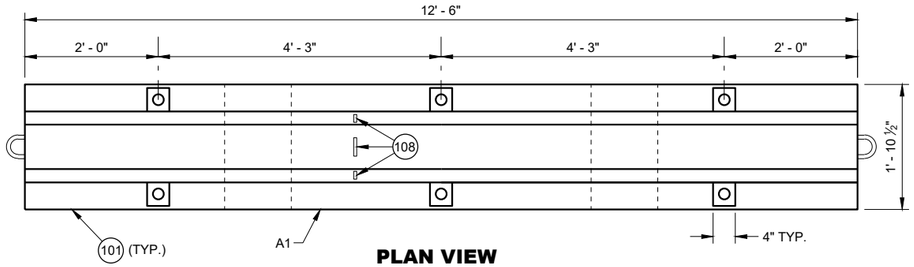
(106) 1" MIN. CLEAR COVER

(107) ± ⅛" MEASURED FROM FACE OF CONCRETE BARRIER TO OUTSIDE OF LOOP BAR (TYP.)

(108) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURERS INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED LEFT OF TRAFFIC AND WHITE WHEN BARRIER IS LOCATED RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART, PROVIDE TO MOUNTED DELINEATORS IN ADDITION TO SIDE MOUNTED DELINEATORS ON BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAT 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

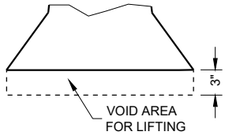


ANCHOR BLOCK DETAIL

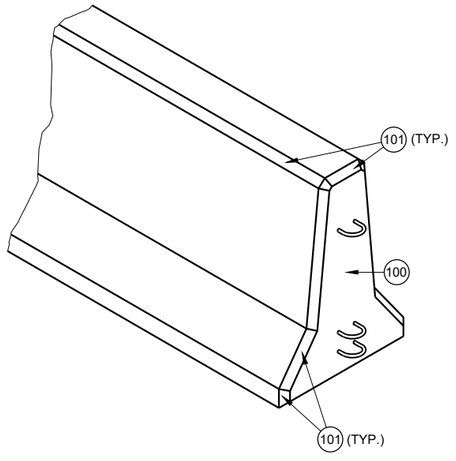


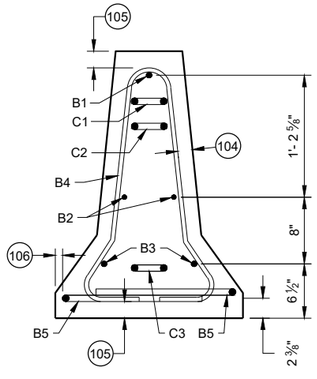
PLAN VIEW

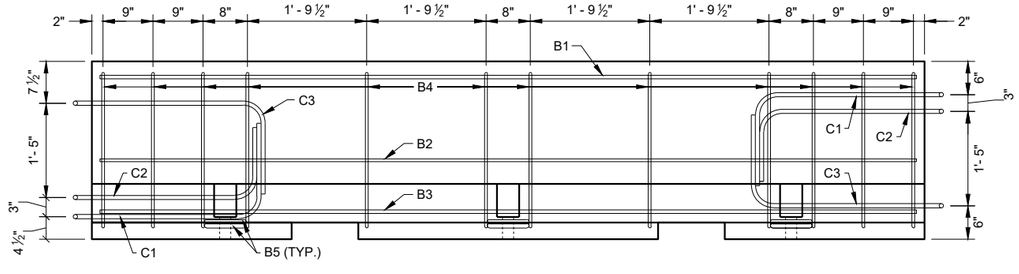
TEMPORARY BARRIER



LIFTING SLOT DETAIL (TYP.)







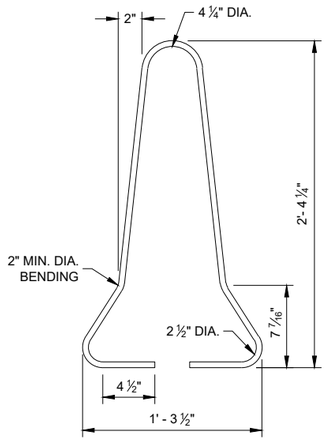
PROFILE VIEW

TEMPORARY BARRIER REINFORCEMENT

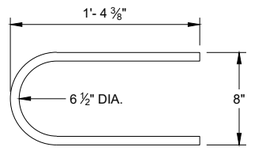
CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

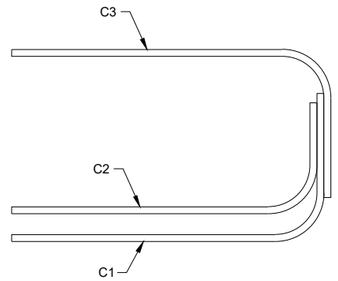
6
SDD 14B07-16a



B4 BAR DETAIL

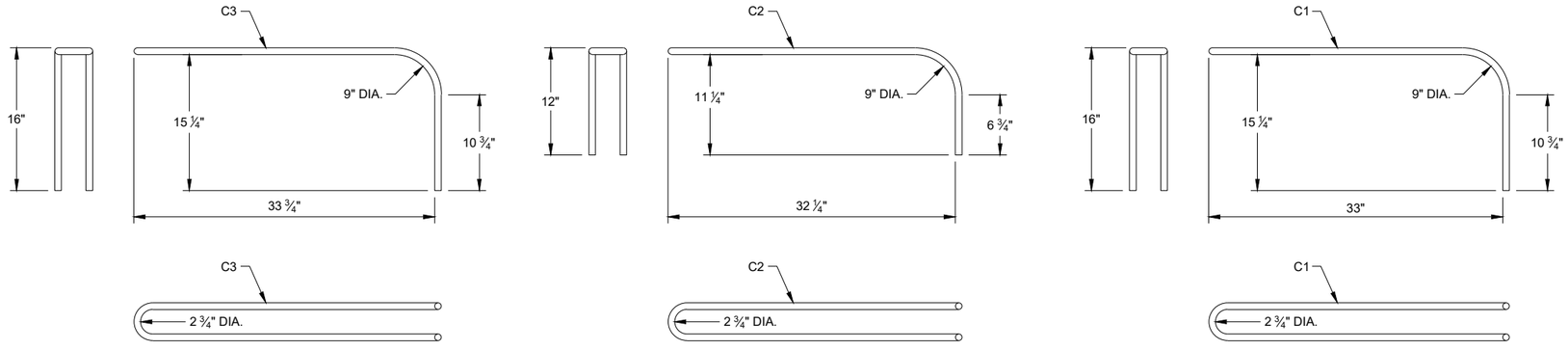


B5 BAR DETAIL



PROFILE VIEW

LOOP BAR ASSEMBLY

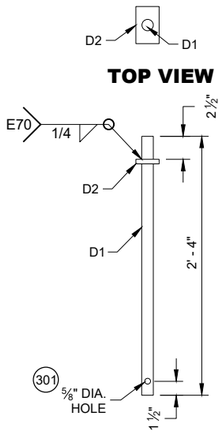


C BAR DETAILS

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

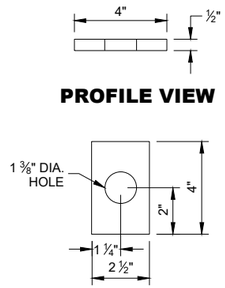
6
SDD 14B07-16b



TOP VIEW

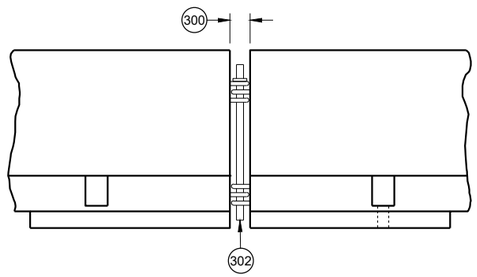
PROFILE VIEW

CONNECTOR PIN ASSEMBLY



PROFILE VIEW

TOP VIEW D2



CONNECTING TEMPORARY BARRIER SECTIONS

GENERAL NOTES

300 SET WITH 3 ⅝" WOOD BLOCK.

301 HOLE IS OPTIONAL.

302 CONNECTOR PIN ASSEMBLY.

303 CONCRETE PAVEMENT, APPROACH SLAB, OR DECK.

304 CONCRETE DECK.

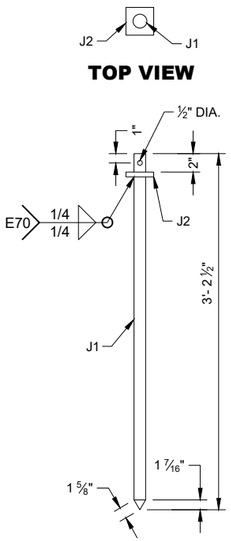
305 DO NOT USE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY OR CONCRETE PAVEMENT WITH ASPHALT OVERLAY.

306 MINIMUM OF 2" OF ASPHALT.

307 ASPHALT ANCHOR PIN ASSEMBLY

308 IF DRILLING A PILOT HOLE, THE MAX, DIA. OF THE HOLE IS 3/4"

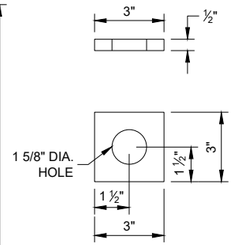
309 WHEN THERE IS ASPHALT OVERLAYING CONCRETE PAVEMENT, A 1 5/8" DIA. PILOT HOLE CAN BE DRILLED INTO THE OVERLAY AND CONCRETE. IF NEEDED DRILL A 3/4" PILOT HOLE IN BASE COURSE.



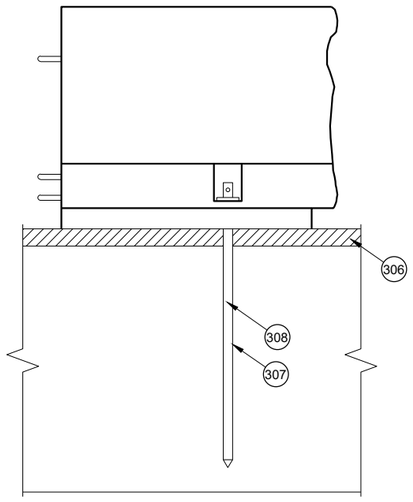
TOP VIEW

PROFILE VIEW

ASPHALT ANCHOR PIN ASSEMBLY

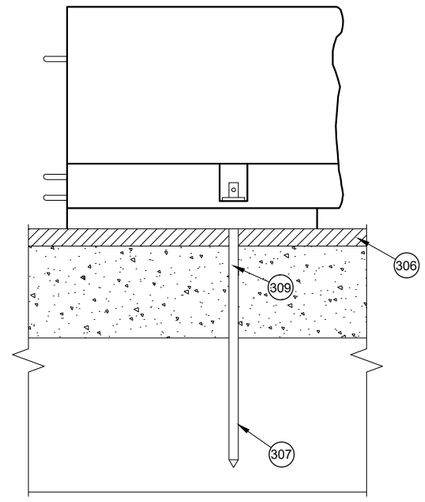


TOP VIEW J2



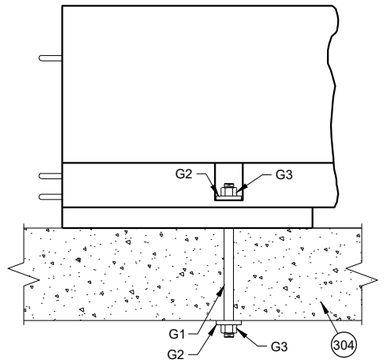
SIDE VIEW

ASPHALT ANCHOR INSTALLATION THROUGH ASPHALT PAVEMENT



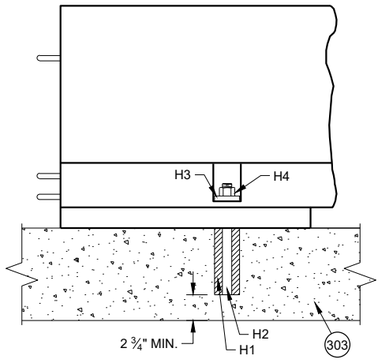
SIDE VIEW

ASPHALT ANCHOR INSTALLATION THROUGH ASPHALT OVERLAY ON TOP OF CONCRETE PAVEMENT



SIDE VIEW

THROUGH BOLT ANCHOR INSTALLATION (305)



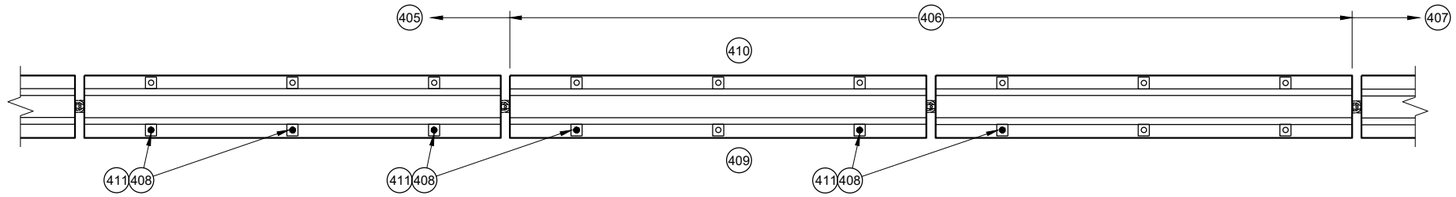
SIDE VIEW

ADHESIVE ANCHOR INSTALLATION (305)

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

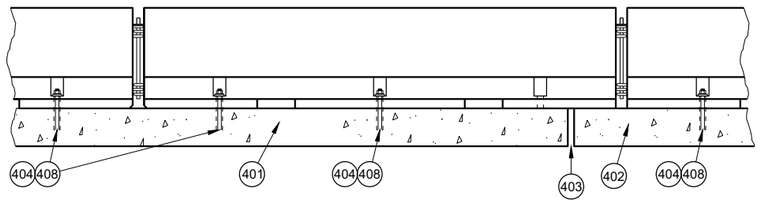
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B07-16c



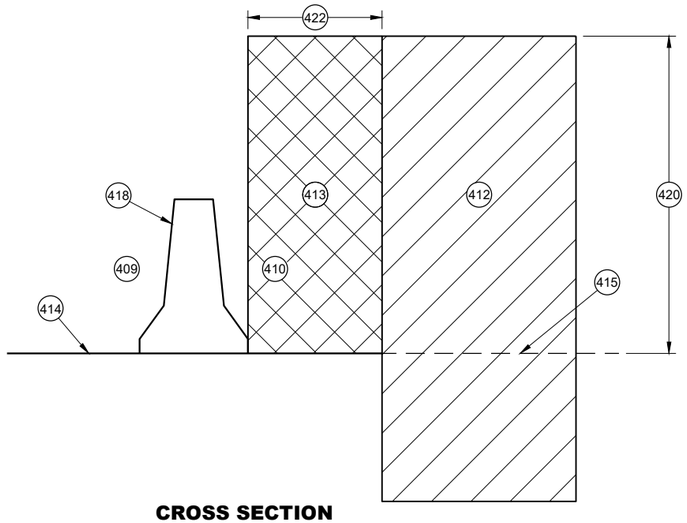
PLAN VIEW

TRANSITION FROM FREE STANDING TO ANCHORED BARRIER



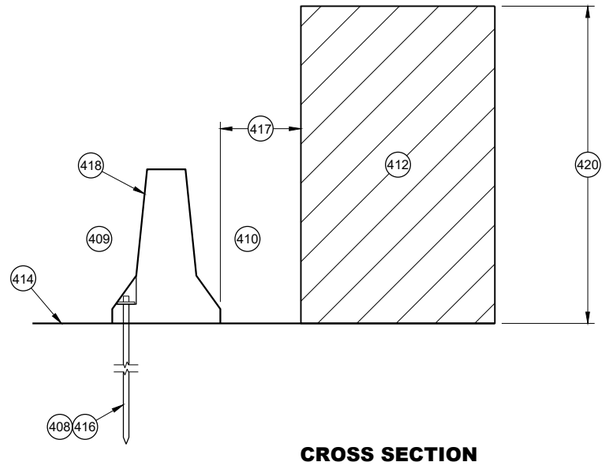
PROFILE VIEW

ANCHORED BARRIER NEAR EXPANSION JOINT (400)



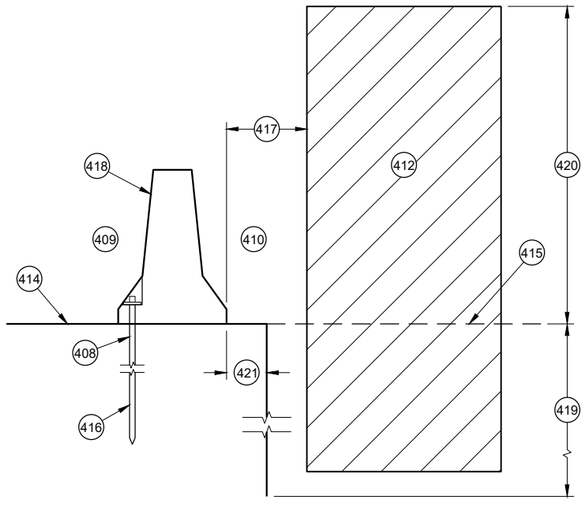
CROSS SECTION

FREE STANDING BARRIER



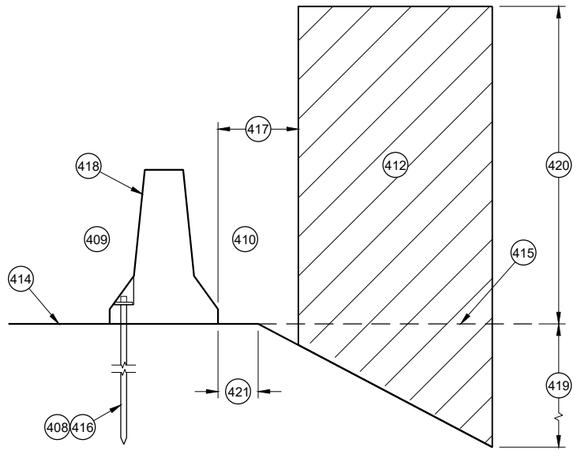
CROSS SECTION

ANCHORED BARRIER FOR OBJECTS ABOVE THE GRADE LINE AND NEAR THE BARRIER



CROSS SECTION

ANCHORED BARRIER NEAR VERTICAL DROP OFF



CROSS SECTION

ANCHORED BARRIER NEAR A SLOPE

GENERAL NOTES

(400) NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.

(401) CONCRETE DECK

(402) CONCRETE DECK OR APPROACH SLAB.

(403) EXPANSION JOINT

(404) ADHESIVE ANCHOR SHOWN. SEE ANCHOR DETAILS.

(405) ANCHORED TEMPORARY BARRIER

(406) TRANSITION FROM ANCHORED TEMPORARY BARRIER TO FREE STANDING

(407) FREE STANDING BARRIER

(408) REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERCIAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(409) TRAFFIC SIDE

(410) NON-TRAFFIC SIDE

(411) ANCHOR LOCATION. SEE ANCHORING DETAILS.

(412) WORK AREA

(413) AREA FREE OF OBJECTS AND WORKERS

(414) GRADE LINE

(415) EXTENDED GRADE LINE

(416) ANCHORED TEMPORARY BARRIER. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR AN ASPHALT ANCHOR ROD DETAILS FOR MORE INFORMATION. ASPHALT ANCHOR ROD SHOWN.

(417) WHEN OBJECTS EXTEND ABOVE THE GRADE. A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT.

(418) OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR ALLOWED TO LEAN AGAINST THE BARRIER WITHOUT WRITTEN PERMISSION OF THE PROJECT ENGINEER.

(419) DEPTHS OF 3 FEET OR MORE.

(420) Y = 6.5'

(421) OFFSET FROM BACK OF BARRIER EDGE:

CONCRETE PAVEMENT	0.5'
ASPHALT	0.5'

(422) POSTED SPEED (MPH):

45 OR GREATER	4.0'
40 OR LOWER	2.0'

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B07-16d

GENERAL NOTES

500 EXISTING RIGID BARRIERS (VARIES)

501 TEMPORARY BARRIER

502 SEE OTHER DETAIL ON HOW TO ANCHOR TEMPORARY BARRIER (BARRIER ASPHALT ANCHOR SHOWN).

503 ANCHORS ARE REQUIRED ON BOTH SIDE OF THE TEMPORARY BARRIER.

504 NESTED RAILS ARE REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

505 TRAFFIC TRAVELS FROM PERMANENT BARRIER TO TEMPORARY BARRIER.

506 TRAFFIC TRAVELS FROM TEMPORARY BARRIER TO PERMANENT BARRIER.

507 VERTICAL BARRIER

508 SAFETY SHAPE BARRIER

509 SINGLE SLOPE BARRIER

510 CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF RIGID BARRIER.

511 BENT THRIE BEAM TO FIT.

512 THRIE BEAM PIECES ARE OFFSET 15 ¼" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.

513 TWO (2) P1, P2 AND P3 ARE REQUIRED

514 FIVE (5) N1, N2 AND N3 ARE REQUIRED

515 TWO (2) R1, R2 AND R3 ARE REQUIRED

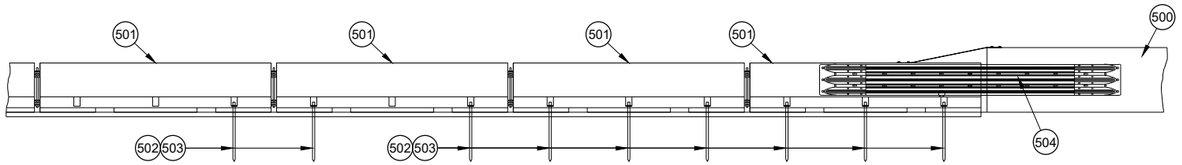
516 CUT WOOD BLOCK TO FIT.

517 SEE THRIE BEAM RAIL TERMINAL CONNECTOR DETAIL ASSEMBLY.

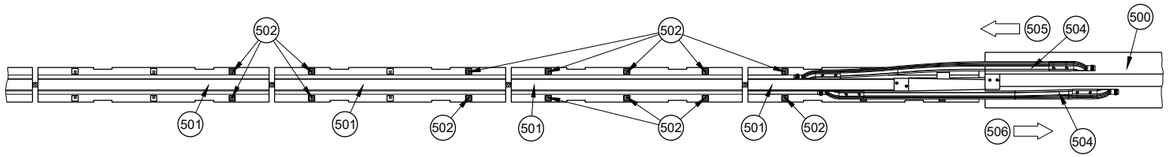
518 CAP ASSEMBLY

519 4" MAX. GAP BETWEEN TEMPORARY BARRIER AND RIGID BARRIER.

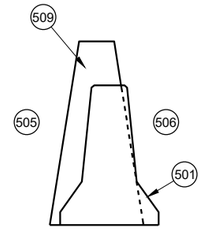
520 ALL TWELVE SPLICE HOLES REQUIRE M1 AND M2



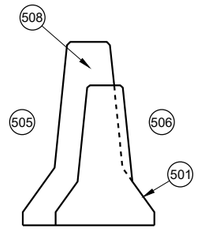
PROFILE VIEW



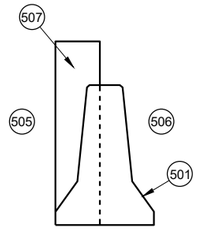
PLAN VIEW



CROSS SECTION TEMPORARY BARRIER PLACEMENT SINGLE SLOPE

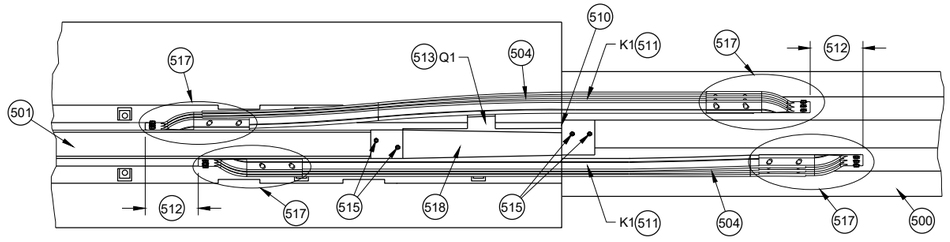


CROSS SECTION TEMPORARY BARRIER PLACEMENT SAFETY SHAPE

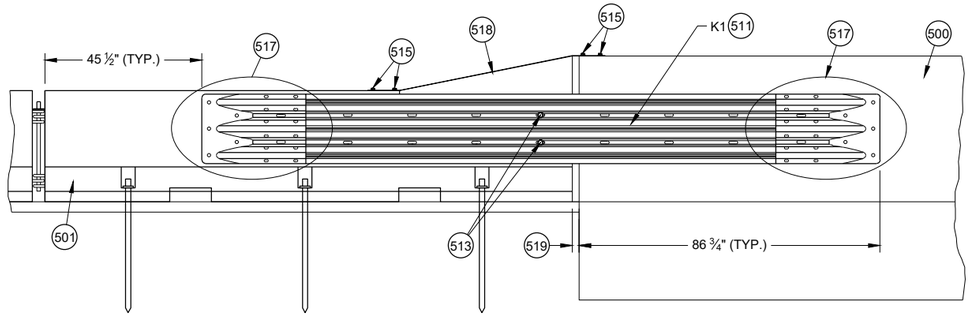


CROSS SECTION TEMPORARY BARRIER PLACEMENT VERTICAL

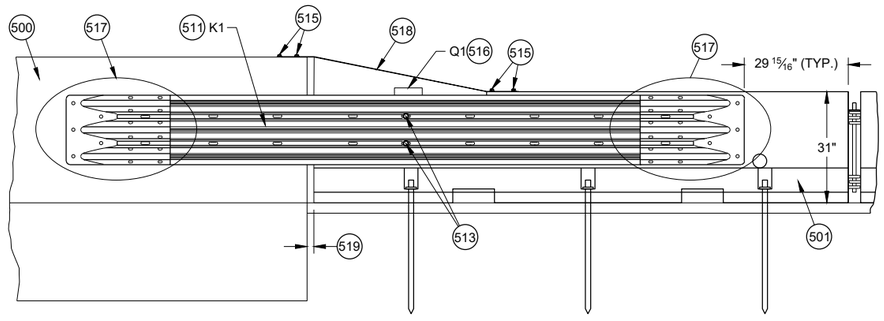
PLAN VIEW
TRANSITION TO RIGID BARRIER



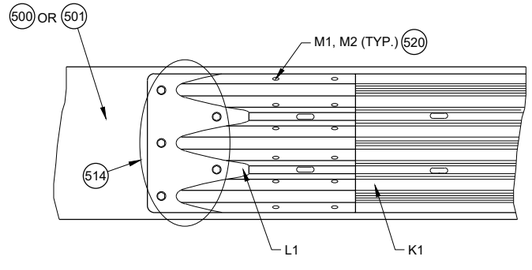
PLAN DETAIL VIEW
TRANSITION TO RIGID BARRIER



FRONT DETAIL VIEW
TRANSITION TO RIGID BARRIER

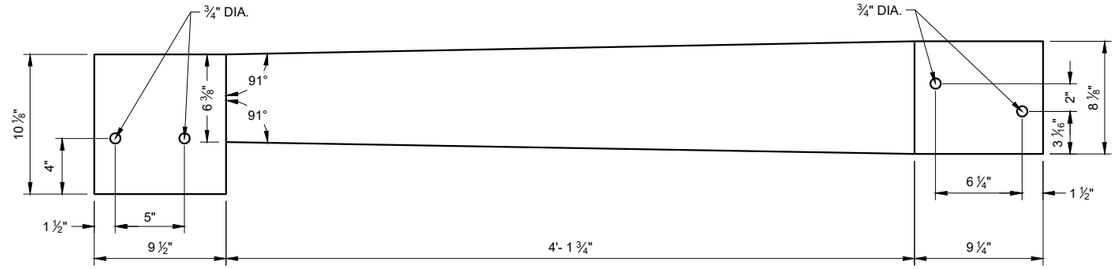


BACK DETAIL VIEW
TRANSITION TO RIGID BARRIER



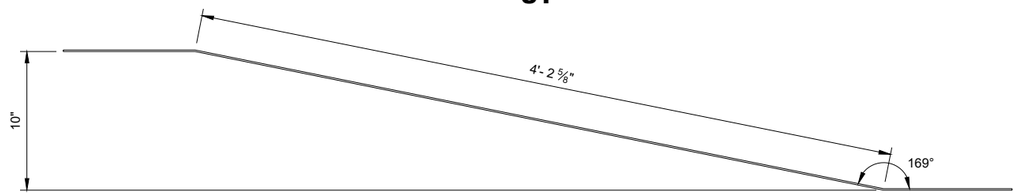
517 DETAIL PLAN VIEW
THRIE BEAM RAIL TERMINAL CONNECTOR ASSEMBLY

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"



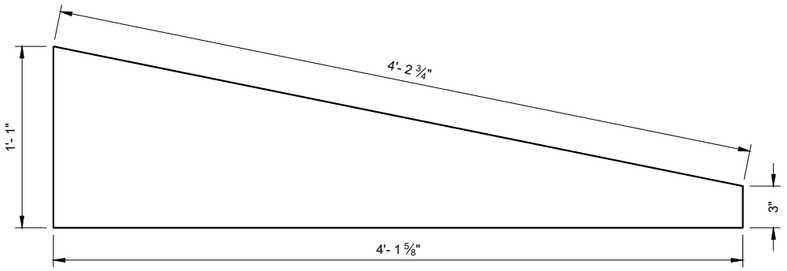
TOP VIEW

S1



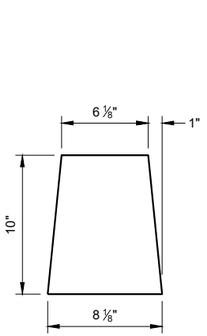
ELEVATION VIEW

S1

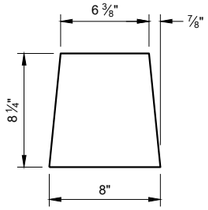


SIDE VIEW

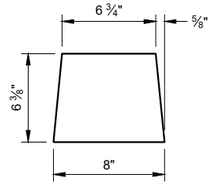
S3



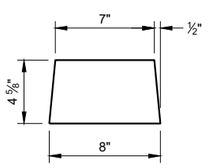
S2



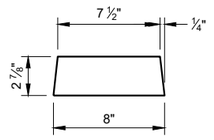
S4



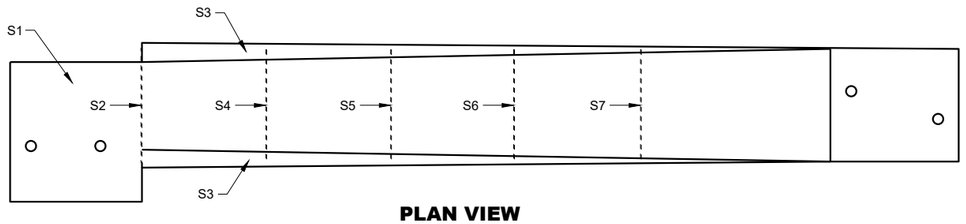
S5



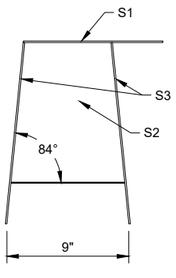
S6



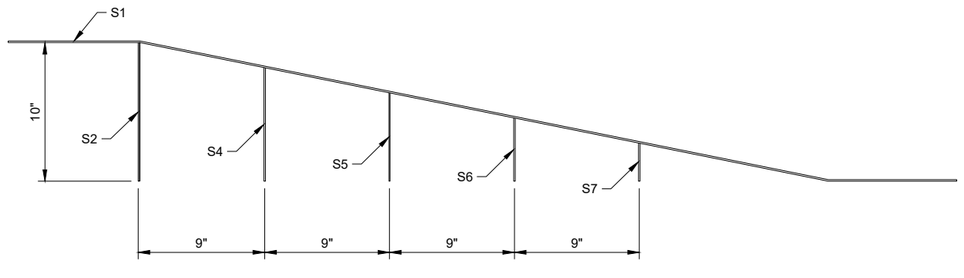
S7



PLAN VIEW



BACK VIEW



SIDE VIEW (600)

42" TOP CAP ASSEMBLY

GENERAL NOTES

STITCH WELD GUSSET PLATES AND END PLATES ON THREE SIDES

STITCH WELD TWO SIDE PLATES TO TOP PLATE, END PLATE AND GUSSETS.

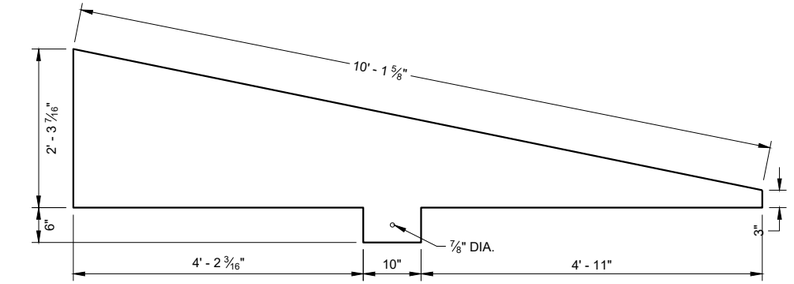
(600) SIDE PLATES (S3) NOT SHOWN FOR CLARITY.

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

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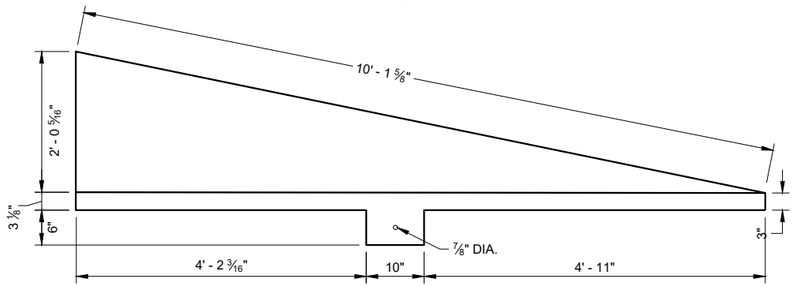
SDD 14B07-16f



SIDE VIEW
T4



END VIEW



SIDE VIEW
T3

END VIEW

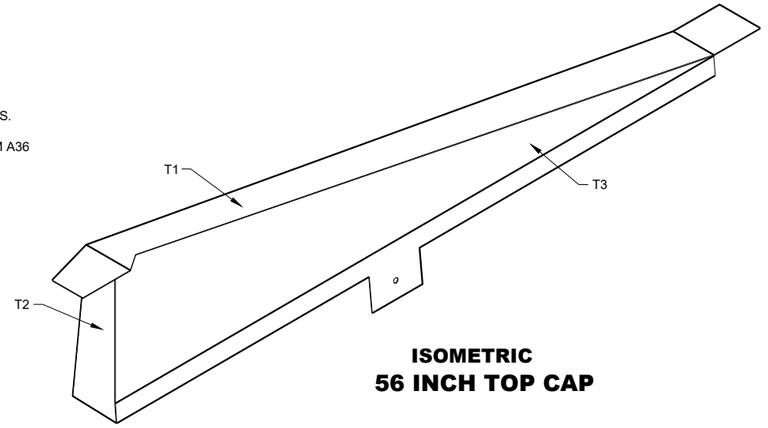
GENERAL NOTES

STITCH WELD GUSSET PLATES AND END PLATES ON THRIE SIDES

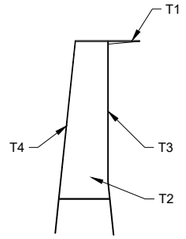
STITCH WELD TWO SIDE PLATES TO TOP PLATE, END PLATE AND GUSSETS.

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

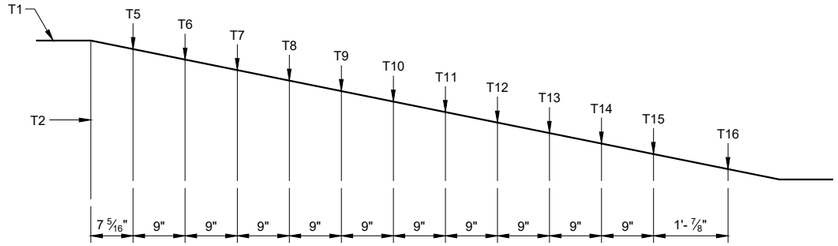
(700) SIDE PLATES (T3 AND T4) NOT SHOWN FOR CLARITY.



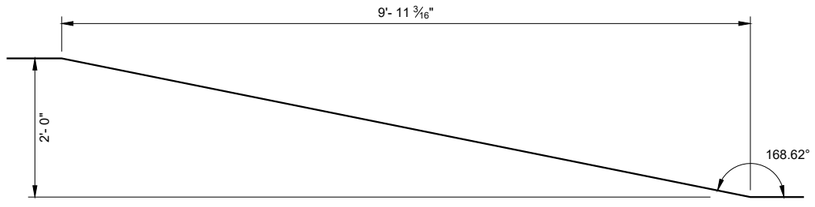
ISOMETRIC
56 INCH TOP CAP



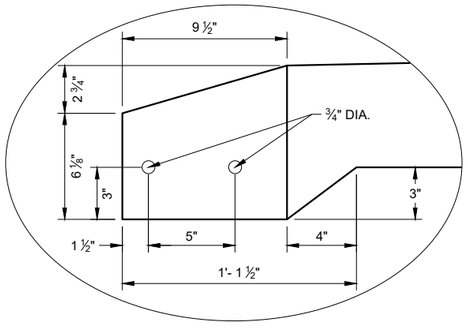
END VIEW
56 INCH TOP CAP



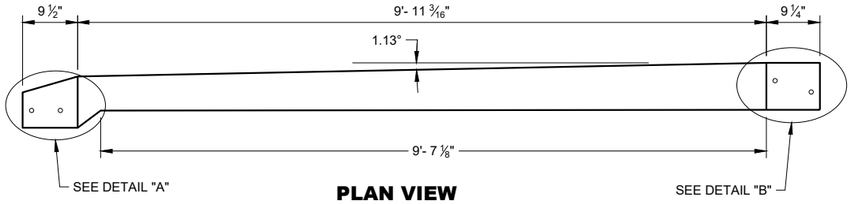
SIDE VIEW (700)
56 INCH TOP CAP



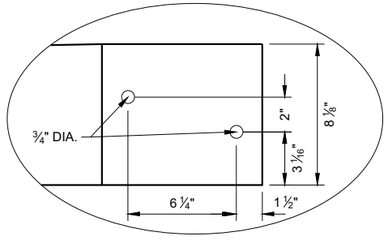
SIDE VIEW
TOP PLATE T1



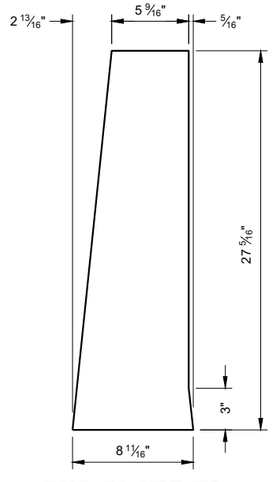
DETAIL "A"



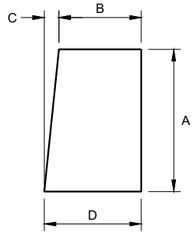
PLAN VIEW
TOP PLATE T1



DETAIL "B"



END PLATE T2



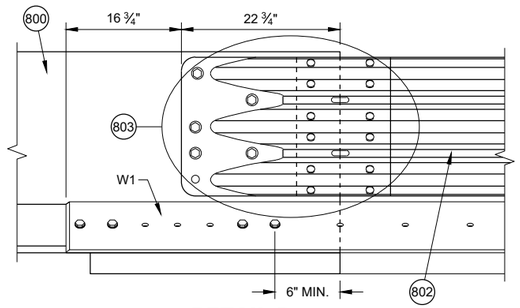
GUSSET PLATES
T5 - T16

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
T5	22 13/16"	5 1/16"	2 5/16"	8 1/16"
T6	21"	5 7/8"	2 3/16"	8 1/16"
T7	19 3/16"	6 1/16"	1 15/16"	8 1/16"
T8	17 3/8"	6 1/4"	1 13/16"	8 1/16"
T9	15 5/16"	6 7/16"	1 9/16"	8 1/16"
T10	13 3/4"	6 5/8"	1 7/16"	8 1/16"
T11	11 15/16"	6 13/16"	1 1/4"	8 1/16"
T12	10 1/8"	7"	1 1/16"	8 1/16"
T13	8 5/16"	7 3/16"	7/8"	8 1/16"
T14	6 1/2"	7 3/8"	1 1/16"	8 1/16"
T15	4 11/16"	7 9/16"	1/2"	8"
T16	2 7/8"	7 3/4"	1/4"	8"

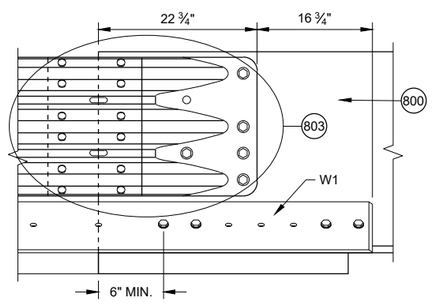
CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

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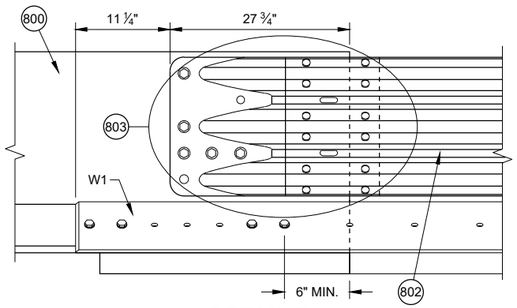
6
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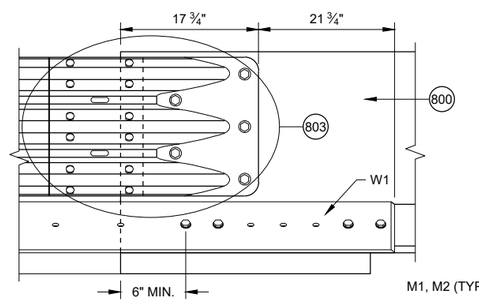
DETAIL D



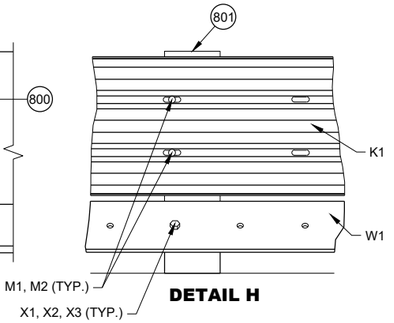
DETAIL E



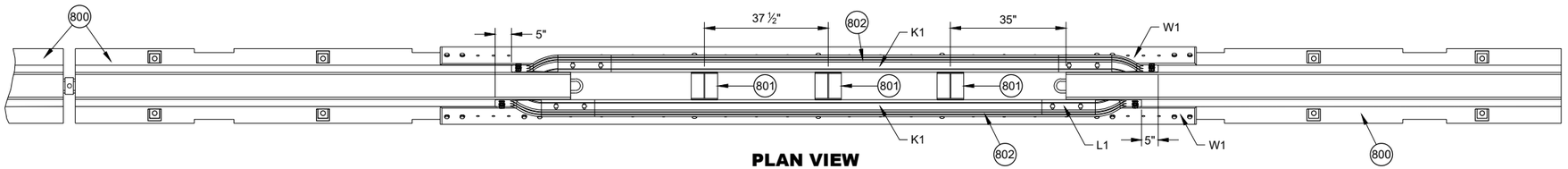
DETAIL F



DETAIL G



DETAIL H



PLAN VIEW

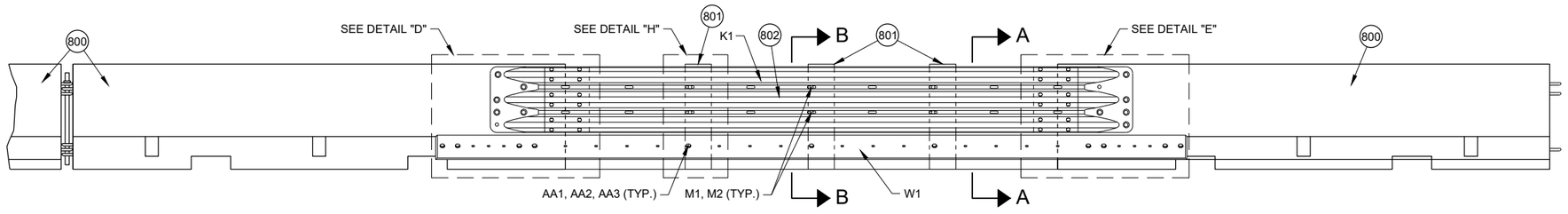
GENERAL NOTES

(800) FREE STANDING TEMPORARY BARRIER

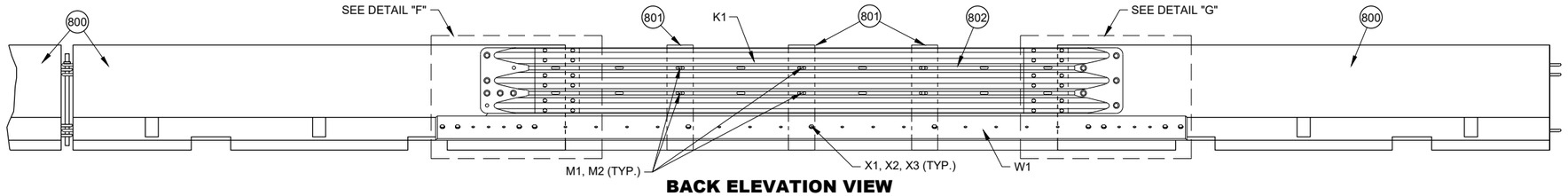
(801) GAP STIFFENER ASSEMBLY

(802) THRIE BEAMS ARE NESTED ON BOTH SIDES OF THE TEMPORARY BARRIER.

(803) SEE THRIE BEAM RAIL TERMINAL CONNECTOR DETAIL



FRONT ELEVATION VIEW



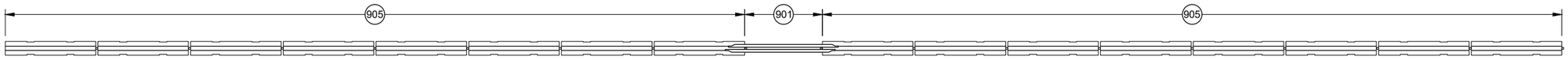
BACK ELEVATION VIEW

PORTABLE CONCRETE BARRIER GAP THRIE BEAM COVER

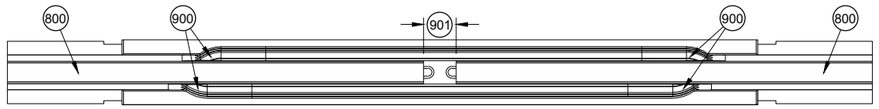
CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

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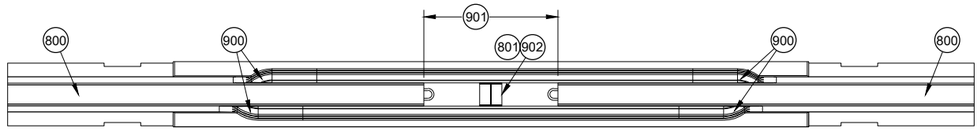
PLAN VIEW
GAP WITHIN SPACING



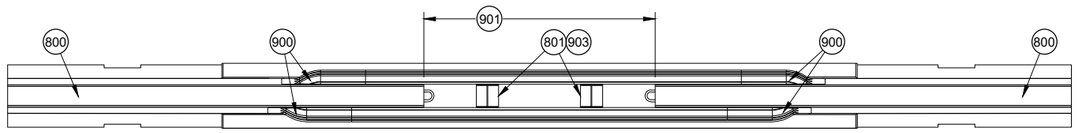
PLAN VIEW
TEMPORARY BARRIER GAP OVER 4" TO 1' MAX. (904)

GENERAL NOTES

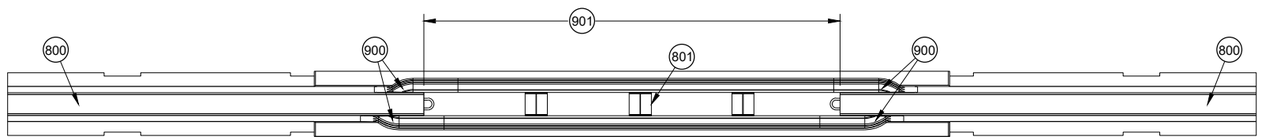
(900) SEE OTHER DETAILS FOR TEMPORARY GAP HARDWARE (TYP.)
(901) TEMPORARY BARRIER GAP
(902) GAP STIFFENER ASSEMBLY CENTERED IN THE GAP.
(903) GAP STIFFENER ASSEMBLY IS OFFSET 18 ¾" FROM CENTER
(904) MINIMUM NUMBER OF GAP STIFFENERS SHOWN FOR THE GAP RANGE SHOWN.
(905) MINIMUM OF 8 CONTINUOUS FREE STANDING TEMPORARY BARRIERS



PLAN VIEW
TEMPORARY BARRIER GAP OVER 1' TO 4' MAX. (904)



PLAN VIEW
TEMPORARY BARRIER GAP OVER 4' TO 7' MAX. (904)

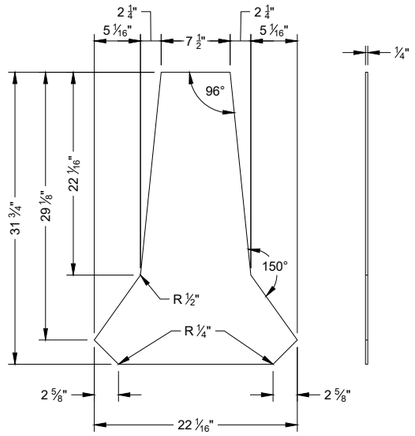


PLAN VIEW
TEMPORARY BARRIER GAP OVER 7' TO 12.5' MAX. (904)

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

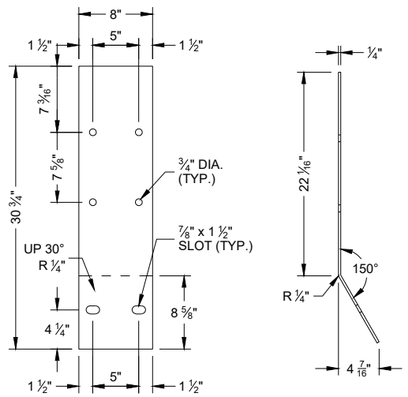
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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PROFILE VIEW SIDE VIEW

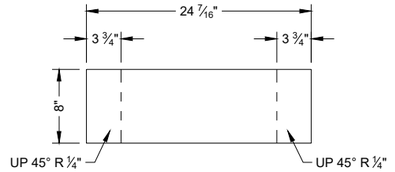
STIFFENER ASSEMBLY CENTER PANEL U1



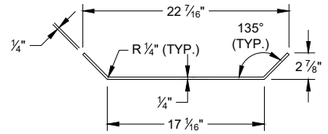
FLAT PATTERN

SIDE VIEW

STIFFENER ASSEMBLY SIDE PANEL U2

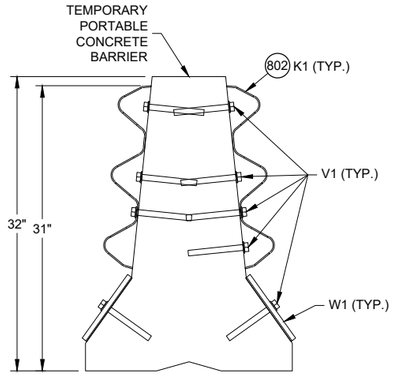


FLAT PATTERN

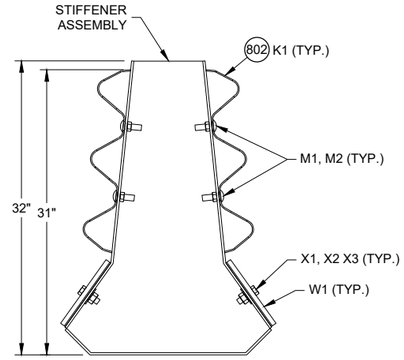


PROFILE VIEW

STIFFENER ASSEMBLY BOTTOM PANEL U3

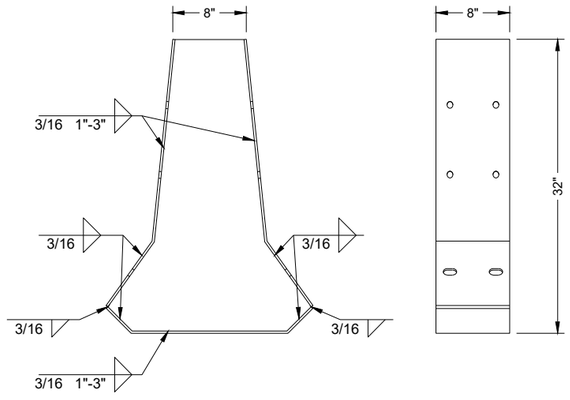


SECTION A - A



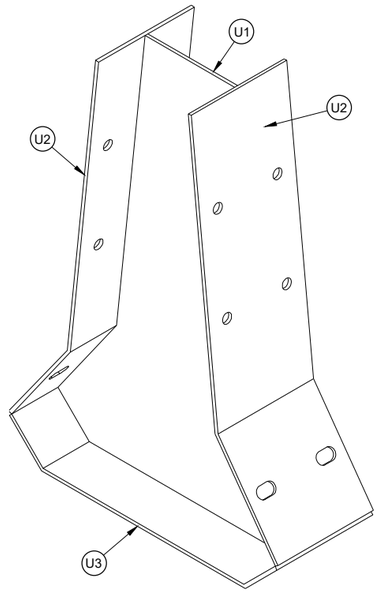
SECTION B - B

PLAN VIEW



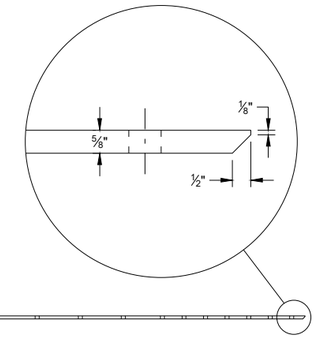
PROFILE VIEW

SIDE VIEW

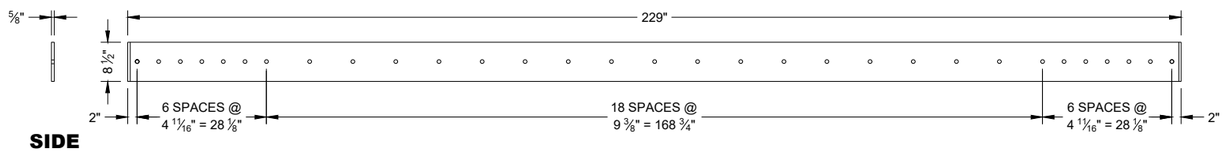


ISOMETRIC

GAP STIFFENER ASSEMBLY



PLAN VIEW



SIDE VIEW

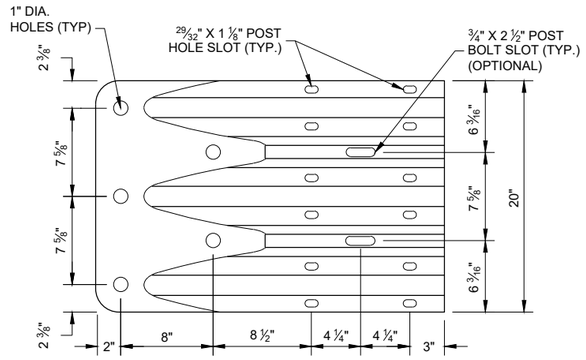
ELEVATION VIEW

W1 TOE PLATE

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

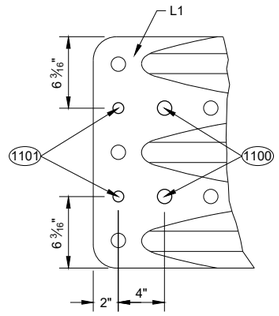
STATE OF WISCONSIN
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ELEVATION VIEW

THRIE BEAM TERMINAL CONNECTOR



ELEVATION VIEW

ADDITIONAL THRIE BEAM (1102) TERMINAL CONNECTOR HOLE DETAIL

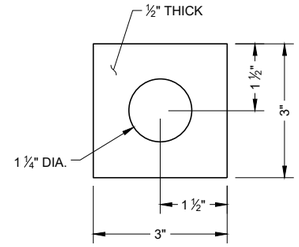


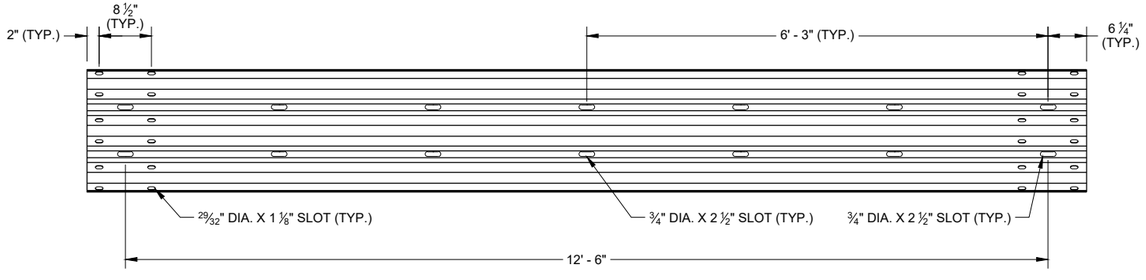
PLATE WASHER DETAIL G2, H3

GENERAL NOTES

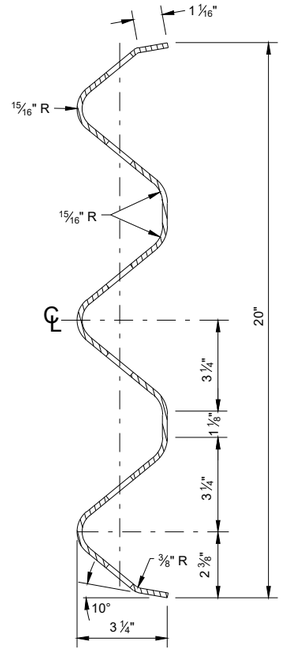
(1100) 1" DIA. HOLE

(1101) 3/4" DIA. HOLE

(1102) PROVIDE HOLES IN THRIE BEAM TERMINAL CONNECTOR TO LIMIT STEEL REINFORCEMENT OR LOOP BAR CONFLICT. CONTRACTOR MAY FIELD DRILL ADDITIONAL HOLE OR PROVIDE THRIE BEAM TERMINAL CONNECTOR WITH ADDITIONAL HOLES FROM SUPPLIER.



SLOTTED THRIE BEAM RAIL K1



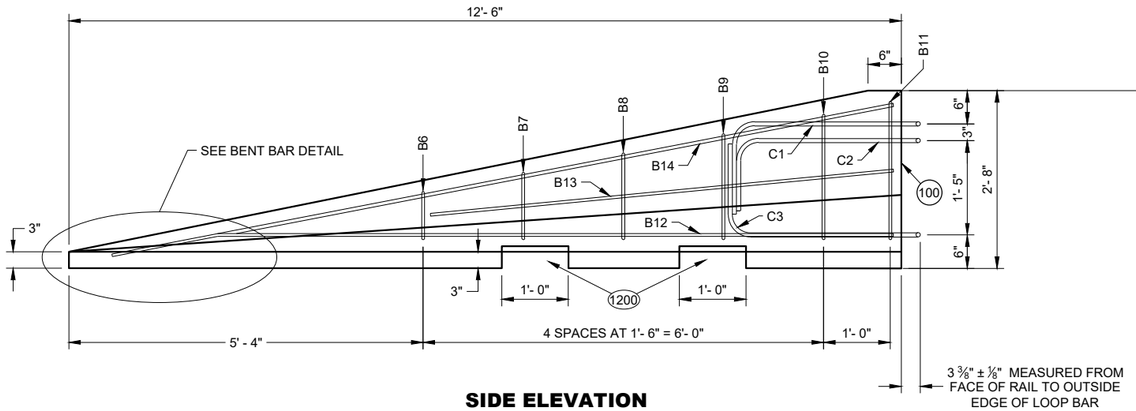
SECTION THROUGH BEAM K1

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

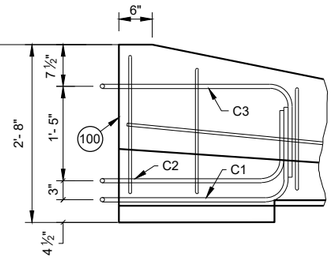
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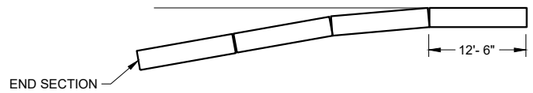
SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED FOR OPPOSITE END
(FOR CONNECTION TO RIGHT END OF BARRIER)

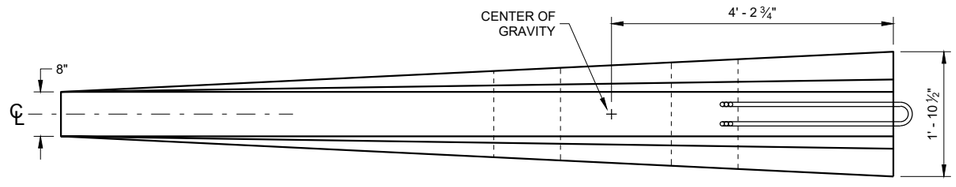
GENERAL NOTES

(1200) SEE LIFTING SLOT DETAIL. LOCATION OF LIFTING SLOTS DETERMINED BY CONTRACTOR.

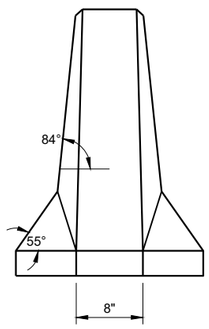


FLARE AT BARRIER END

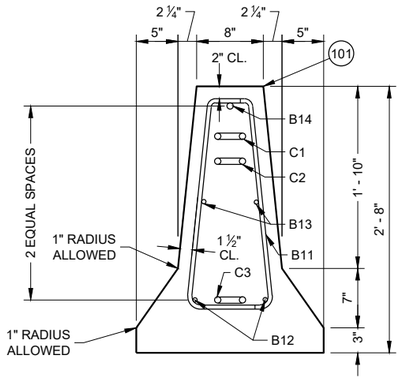
POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1



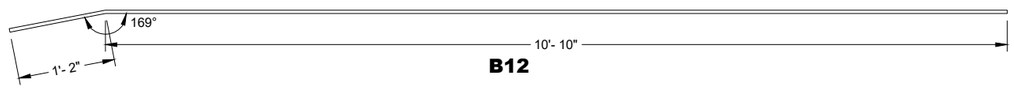
PLAN VIEW



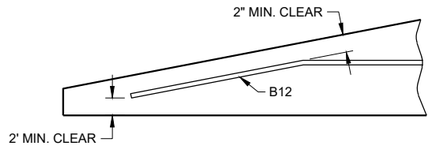
FRONT ELEVATION



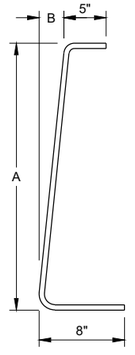
END SECTION



B12



BENT BAR DETAIL



BAR	A	B
B6	10"	1"
B7	1'- 1"	1 ¼"
B8	1'- 5"	1 ⅝"
B9	1'- 8"	1 ⅞"
B10	2'- 0 ½"	2 ⅜"
B11	2'- 3"	2 ¾"

B BARS
2 OF EACH SIZE REQUIRED FOR STIRRUP ASSEMBLY

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

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BILL OF MATERIALS - CONCRETE BARRIER PRECAST

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	PRECAST TEMPORARY BARRIER - CONCRETE	MIN. = f'c 5000 PSI	
B1	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 12'-2"
B2	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 12'-2"
B3	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 12'-2"
B4	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 6'-0"
B5	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#6 REBAR, LENGTH 2'-11"
B6	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 1'-11"
B7	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-2"
B8	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-6"
B9	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-9"
B10	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 3'-2"
B11	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 3'-4"
B12	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 12'-0"
B13	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 7'-9"
B14	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 11'-9"
C1	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
C2	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
C3	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
D1	CONNECTION PIN - ROD	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	1 ¼" DIA.
D2	CONNECTION PIN - TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
G1	BOLT THROUGH ANCHOR - THREADED ROD	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 A307 GRADE A OR SAE J429 GRADE 2 UNC	1 ⅛" DIA.
G2	BOLT THROUGH ANCHOR - WASHER, SQUARE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
G3	BOLT THROUGH ANCHOR - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
H1	ADHESIVE ANCHOR - ADHESIVE	ICC-ES-AC308 5 ¼" EMBEDMENT WITH A MIN. BOND STRENGTH OF 1,650 PSI. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
H2	ADHESIVE ANCHOR - THREADED ROD	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 A307 GRADE A / SAE J429 GRADE 2 UNC	1 ⅛" DIA.
H3	ADHESIVE ANCHOR - WASHER, SQUARE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
H4	ADHESIVE ANCHOR - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
J1	ASPHALT ANCHOR PIN - ROD	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	1 ½" DIA.
J2	ASPHALT ANCHOR PIN - STOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
K1	THRIE BEAM RAIL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER	12 GAUGE
L1	THRIE BEAM RAIL - TERMINAL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER	12 GAUGE

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
M1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	⅝" DIA.
M2	SPLICE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
N1	THRIE BEAM RAIL TERMINAL - MECHANICAL ANCHOR	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA. LENGTH 6"
N2	THRIE BEAM RAIL TERMINAL - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
N3	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
P1	THRIE BEAM RAIL CONNECTION 1-BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA.
P2	THRIE BEAM RAIL CONNECTION 1-WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
P3	THRIE BEAM RAIL CONNETION 1- MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
Q1	BLOCK WOOD	SEE STANDARD SPEC. 614	
R1	CAP - BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	⅝" DIA.
R2	CAP- BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
R3	CAP - BOLT - MECHANICAL ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	12 GAUGE
S1	CAP 42-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S2	CAP 42-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S3	CAP 42-INCH SIDE PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S4	CAP 42-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S5	CAP 42-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S6	CAP 42-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S7	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE

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SDD 14B07-16m

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B07-16m

BILL OF MATERIALS - CONCRETE BARRIER PRECAST

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
T1	CAP 56-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T2	CAP 56-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T3	CAP 56-INCH SIDE PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T4	CAP 56-INCH SIDE PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T5	CAP 56-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T6	CAP 56-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T7	CAP 56-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T8	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T9	CAP 42-INCH GUSSET 5	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T10	CAP 42-INCH GUSSET 6	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T11	CAP 42-INCH GUSSET 7	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T12	CAP 42-INCH GUSSET 8	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T13	CAP 42-INCH GUSSET 9	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T14	CAP 42-INCH GUSSET 10	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T15	CAP 42-INCH GUSSET 11	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T16	CAP 42-INCH GUSSET 12	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
U1	GAP STIFFENER	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
U2	GAP STIFFENER - CONNECTOR PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
U3	GAP STIFFENER - CONNECTOR PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
V1	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 24.0 KIPS AND ULTIMATE SHEAR LOAD 21.5 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	¾" DIA.
V2	GAP STIFFENER - BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C O R MECHANICAL GALVANIZE TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
W1	TOE PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
X1	TOE PLATE - CONNECTION BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC HEAVY HEX HEAD OR AASTHO M180 HEAD, ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED. PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	¾" DIA.
X2	TOE PLATE - CONNECTION BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1 (HARDEN WASHER ONLY)	
X3	TOE PLATE - CONNECTION BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	

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SDD 14B07-16n

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

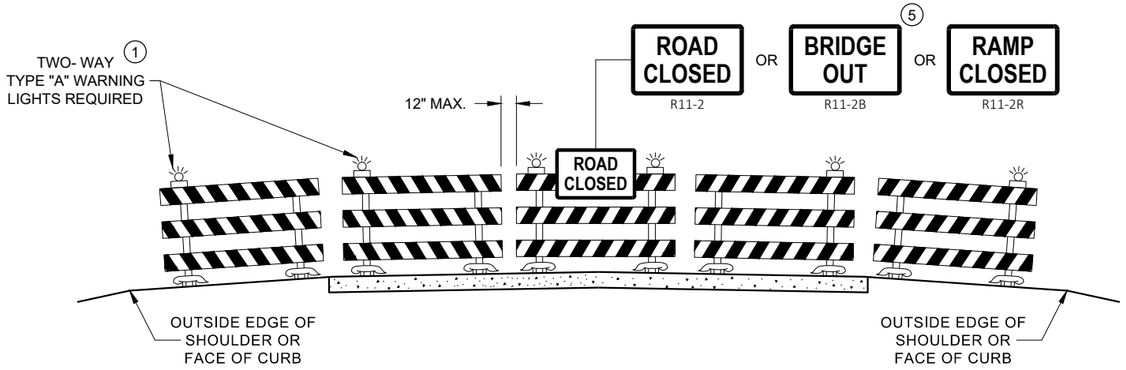
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

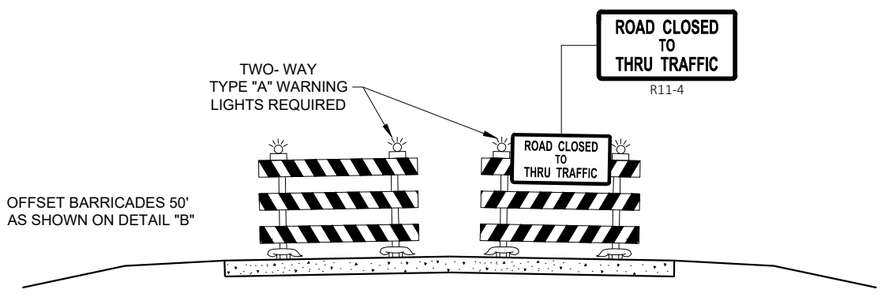
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SDD 14B07-16n



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
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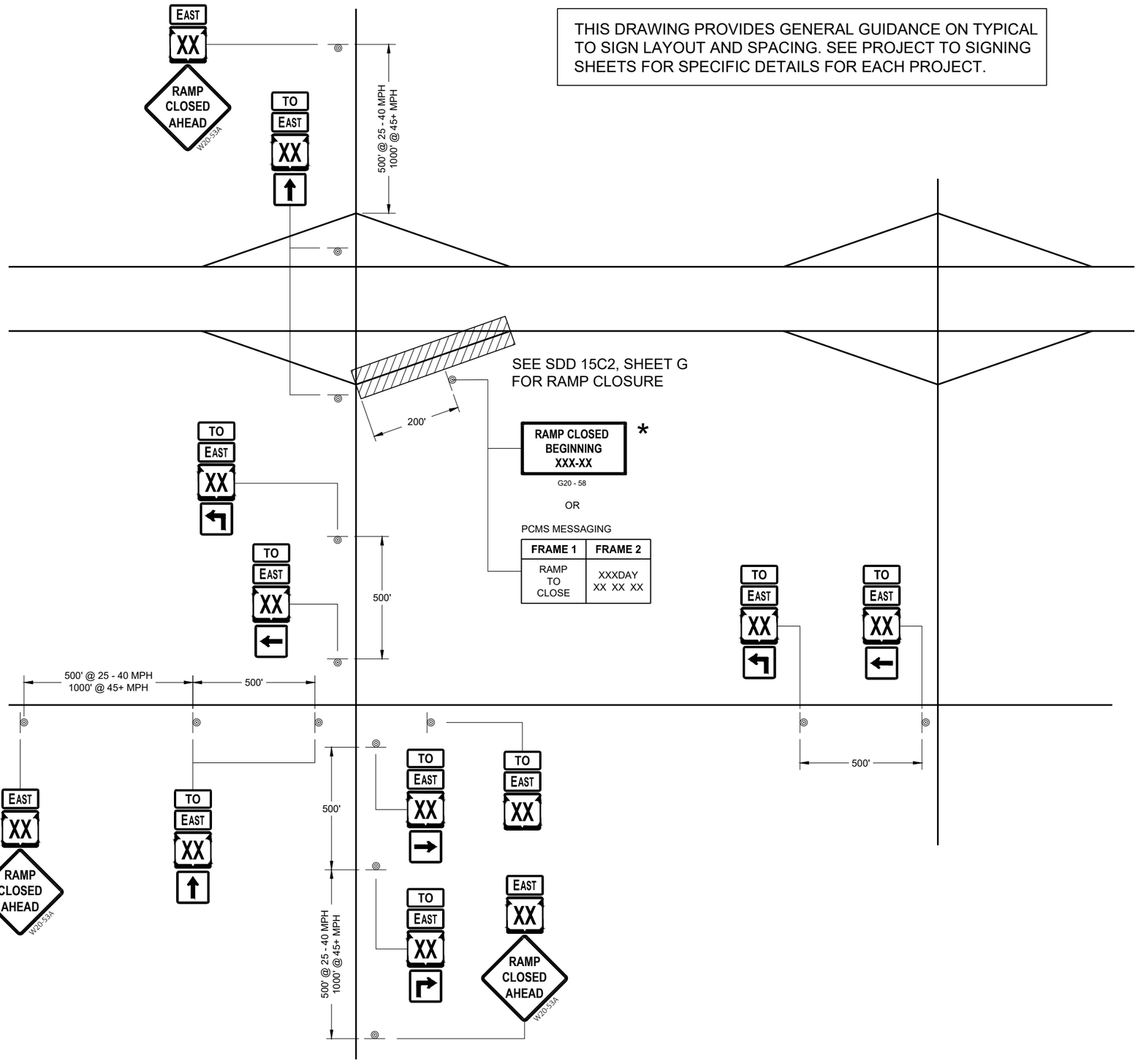
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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SDD 15C02 - 09b

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SDD 15C02 - 09b



THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

SIGN ON PERMANENT SUPPORT

TO EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ON RAMP LANE CLOSURE

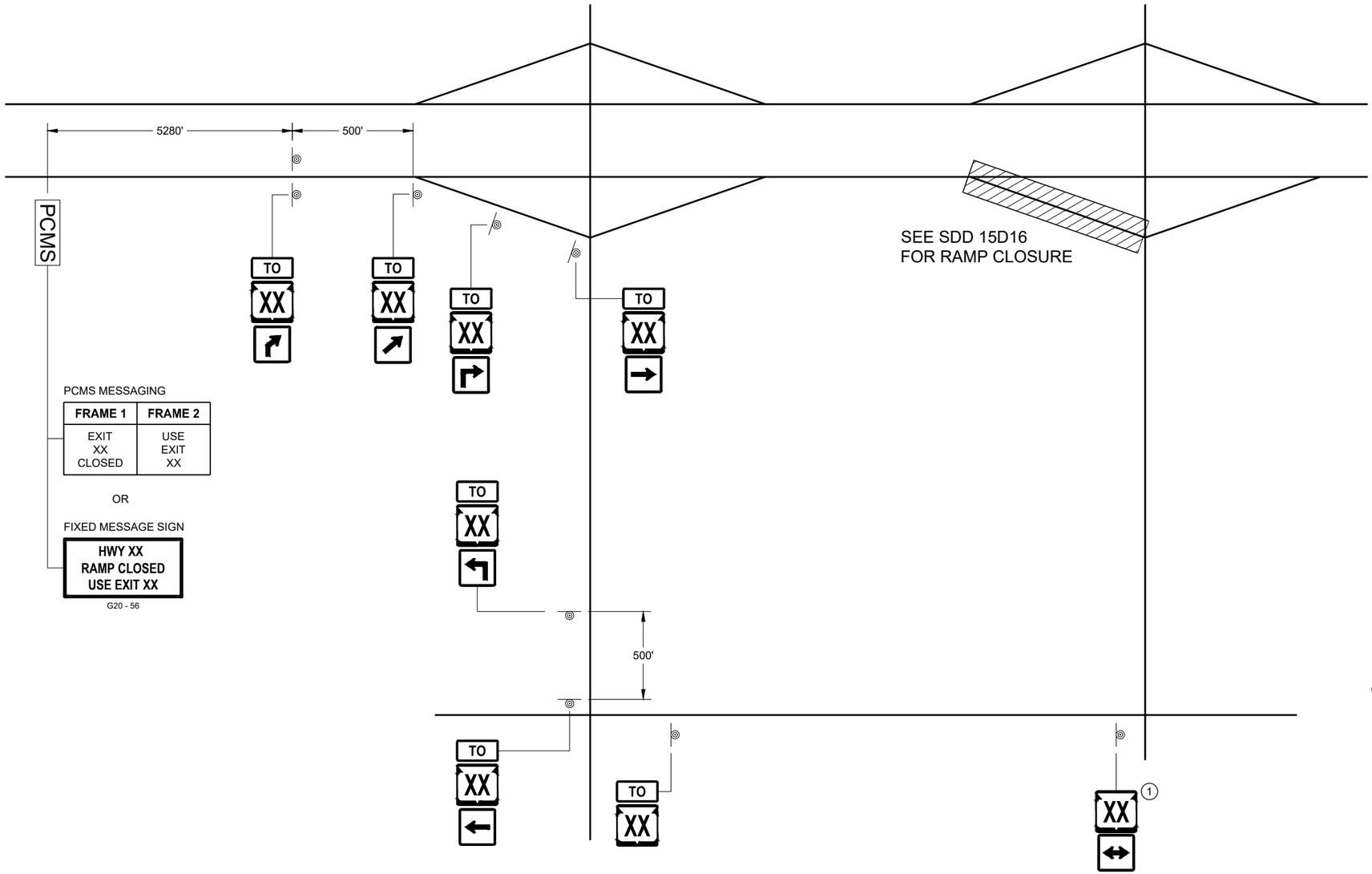
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15C02 - 09d

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

LEGEND

SIGN ON PERMANENT SUPPORT

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TO MO4 - 5

XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A

M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2 OR M06 - 4

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE "TO" MO-4 ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND "TO" MO-4 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 4, M1 - 5A, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

(1) ONLY ADD IF THERE ARE NO EXISTING ROUTE MARKERS FOR THE INTERSECTING ROADWAY.

OFF RAMP
LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

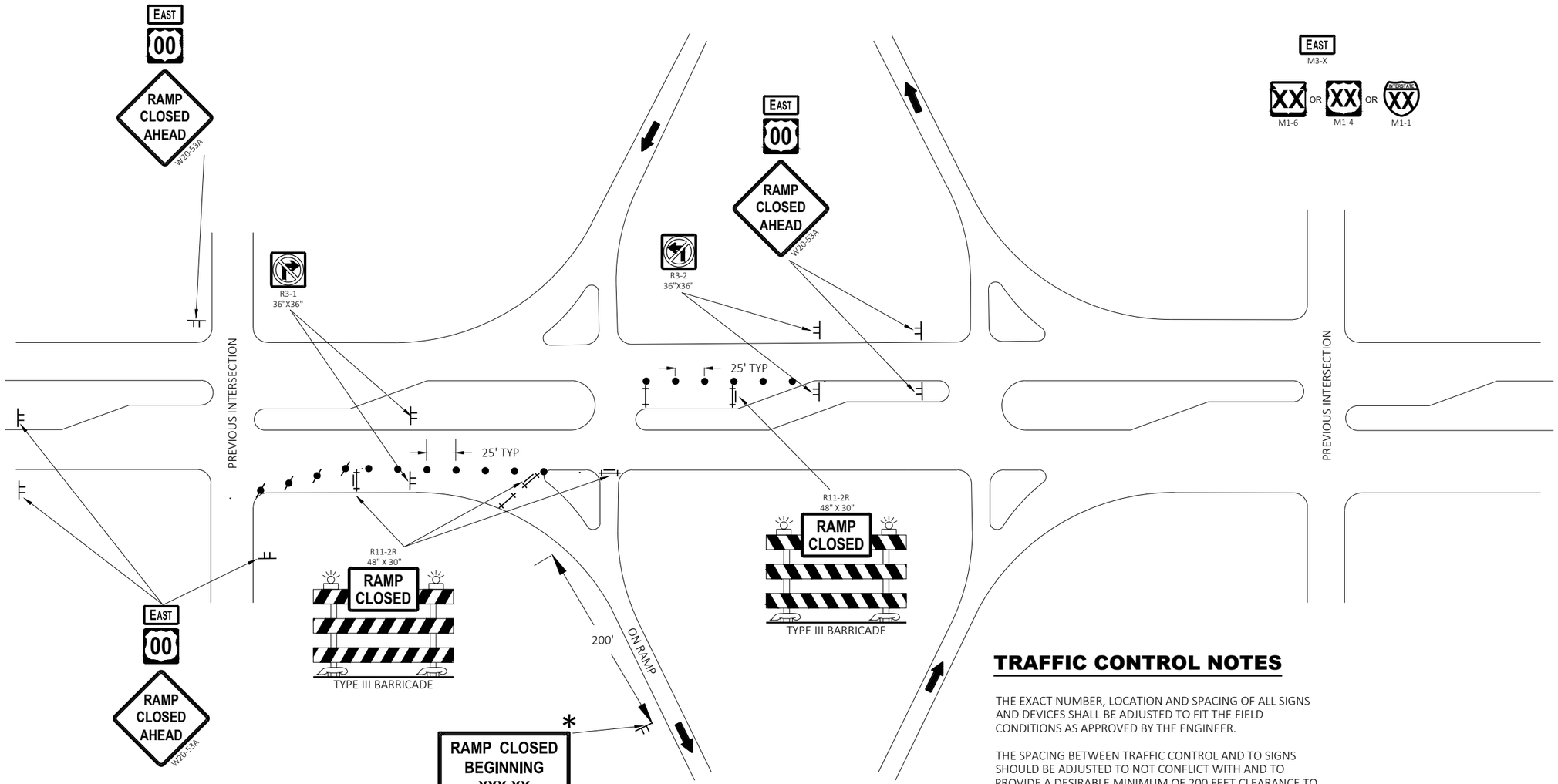
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LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE

TRAFFIC CONTROL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT THE FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24"x24" (36" x18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-1, M1-4, AND M1-6 SHALL BE 24"x24" (36"x36" IF NEEDED TO MATCH EXISTING SIGNS)
- W20-53A SHALL BE 48"X48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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May 2023 — DATE
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6

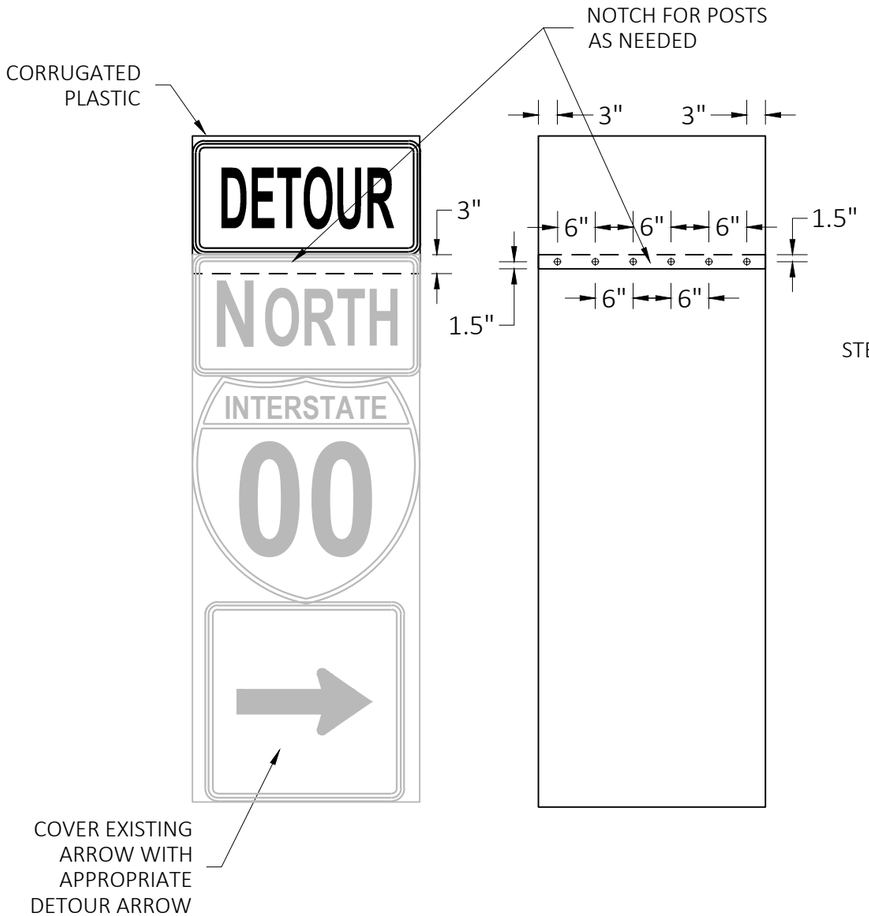
SDD 15C02-09g

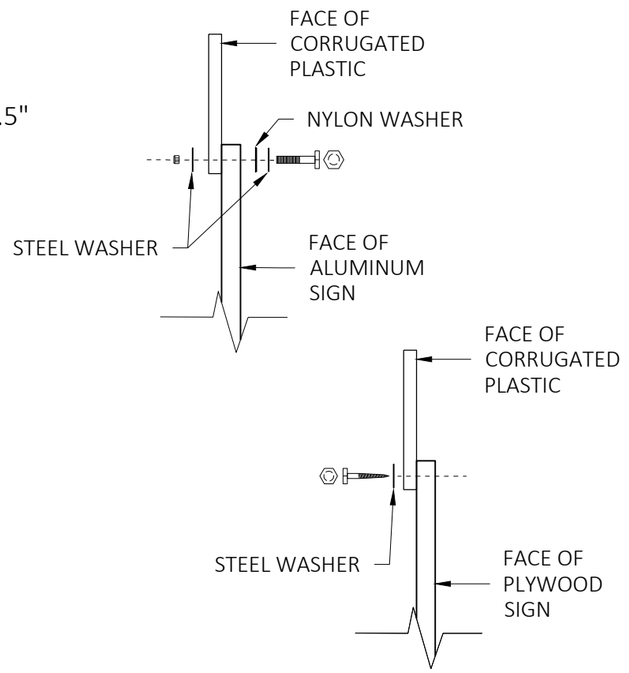
SDD 15C02-09g

FRONT SIDE

BACK SIDE

SIDE VIEW





GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3.

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
1-1/4" O.D. x 3/8" I.D. x .080 NYLON

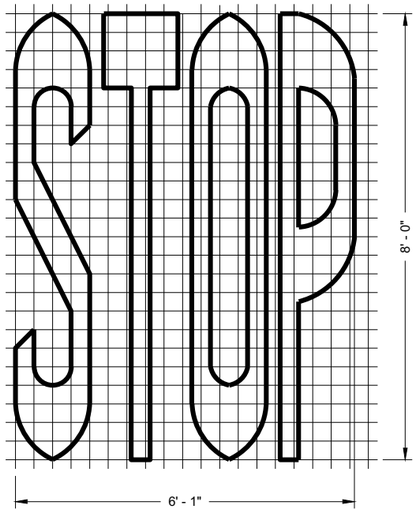
MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

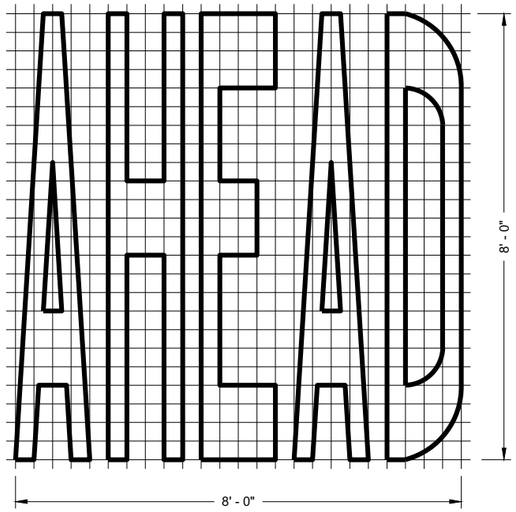
MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

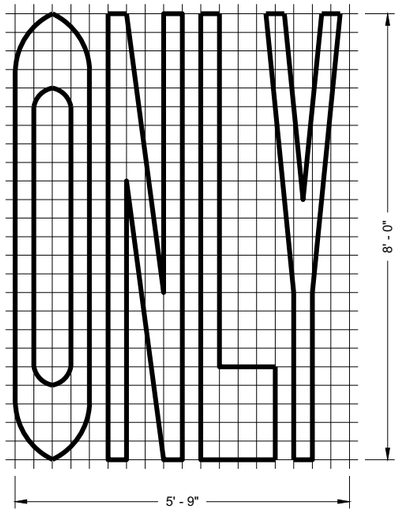
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

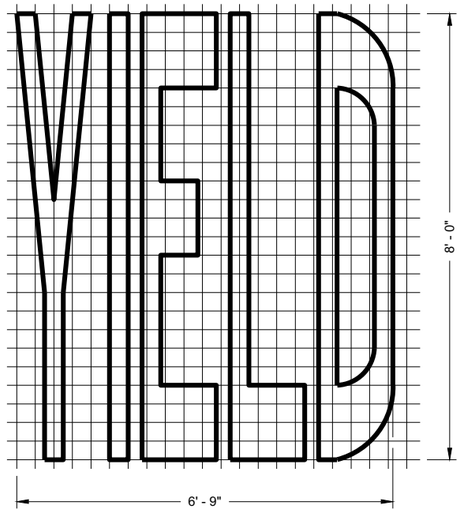
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May 2023 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVEL ENGINEER
FHWA

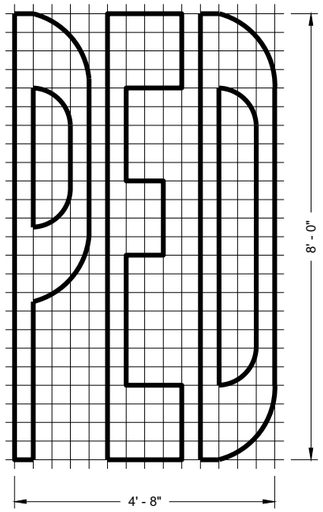
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SDD 15C02-09h

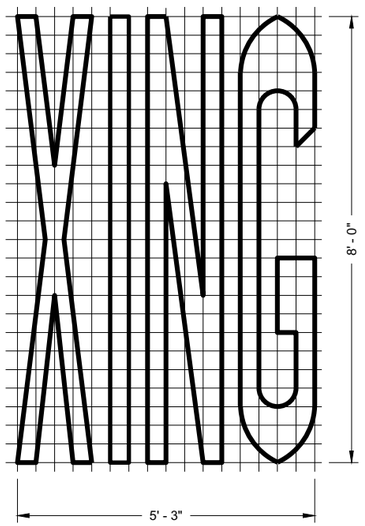


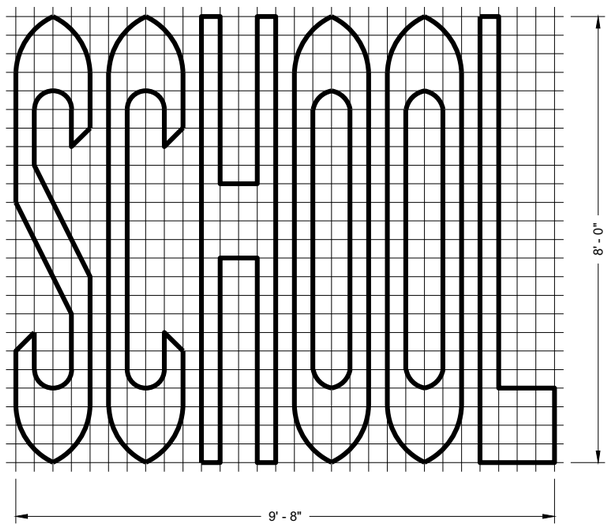




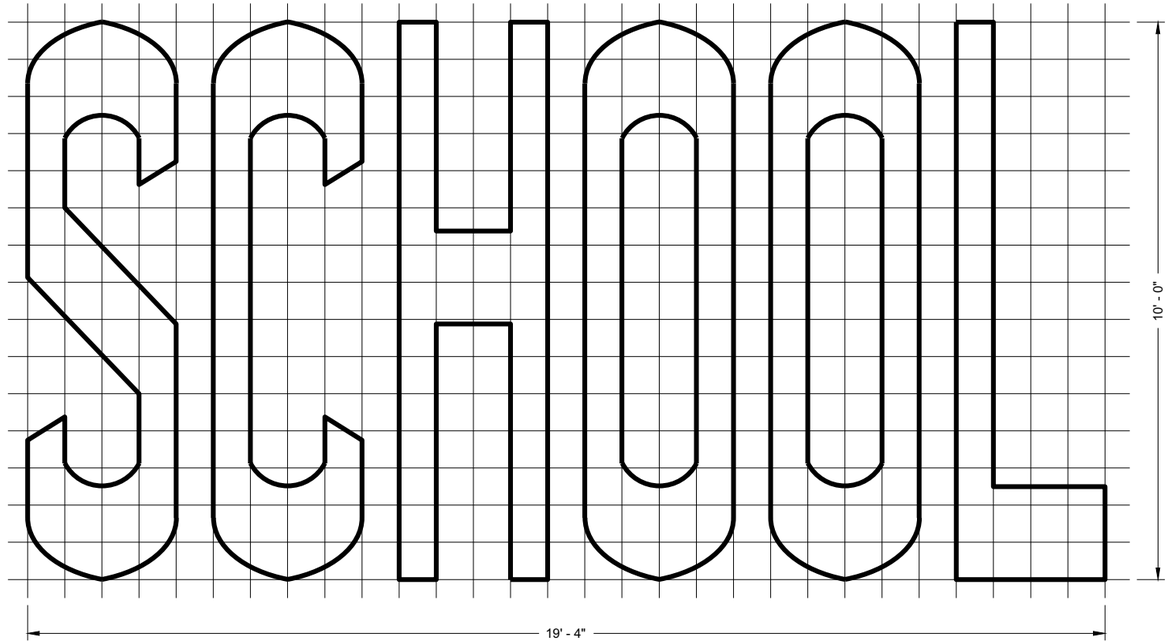








SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

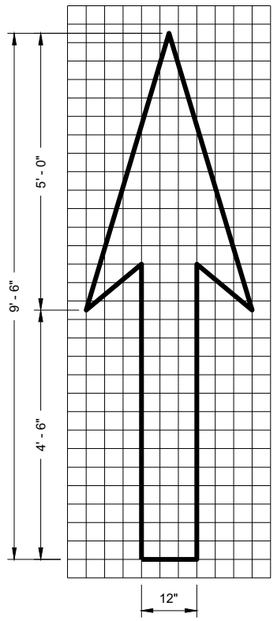
/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

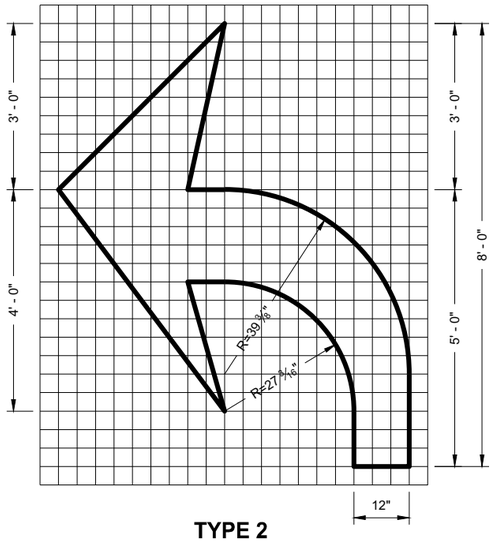
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SDD 15C07 - 15b

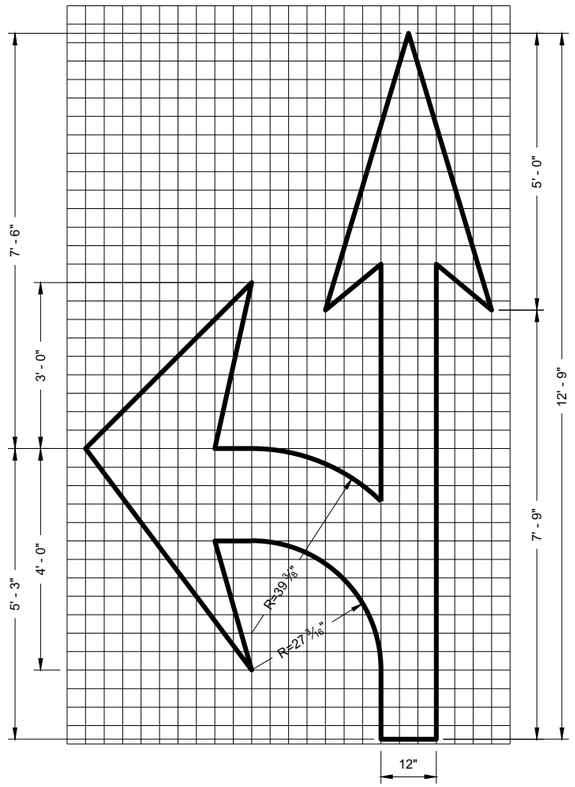
SDD 15C07 - 15b



TYPE 1



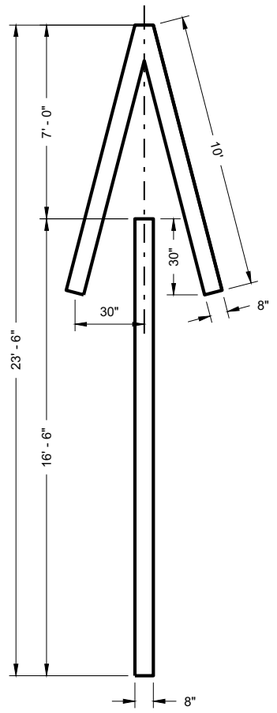
TYPE 2



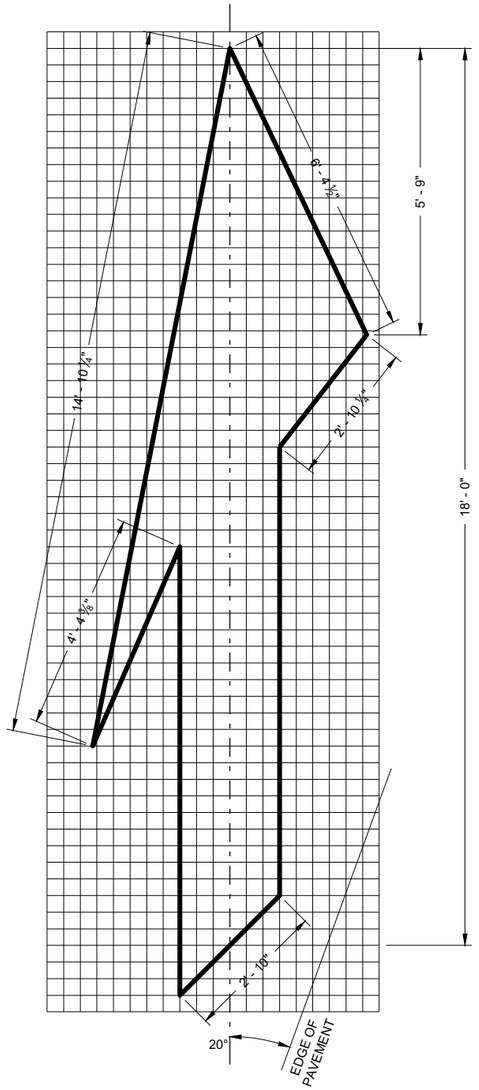
TYPE 3

GENERAL NOTES

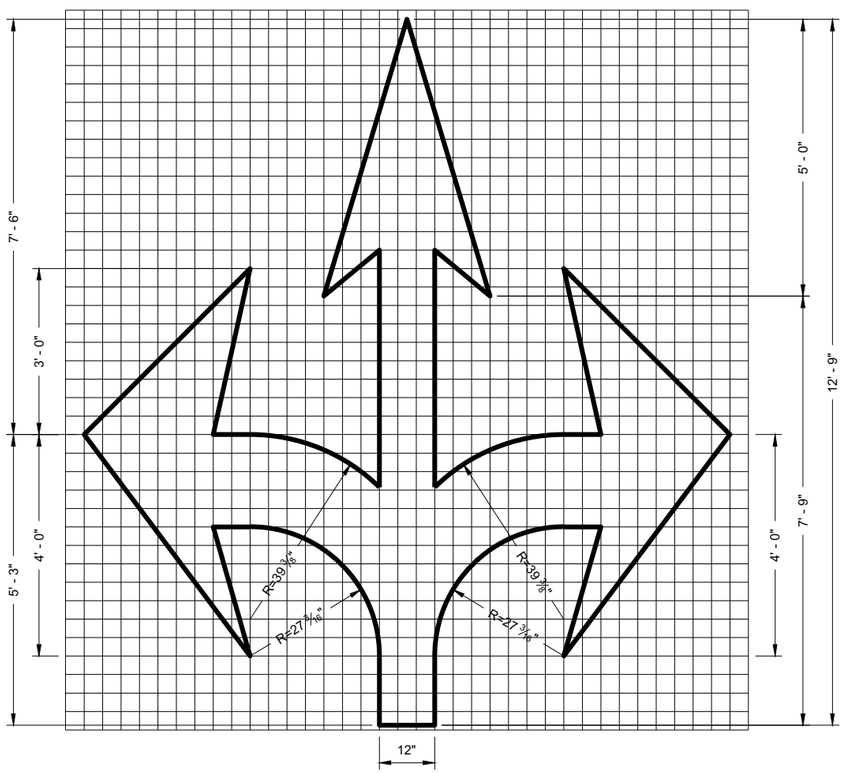
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



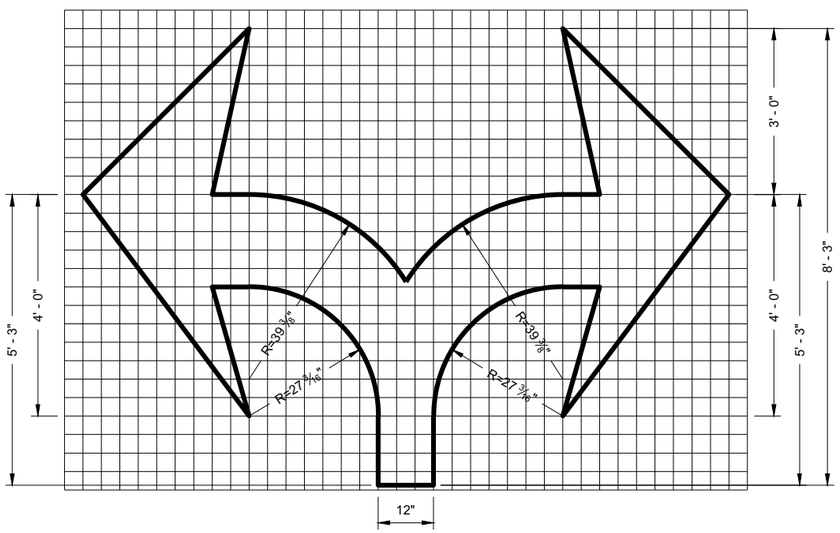
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
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APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

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SDD 15C07 - 15c

6

SDD 15C07 - 15c

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

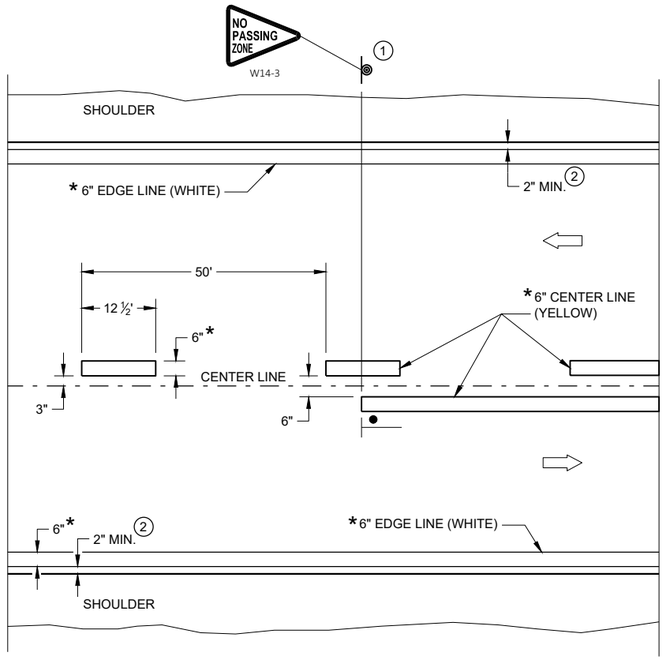
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

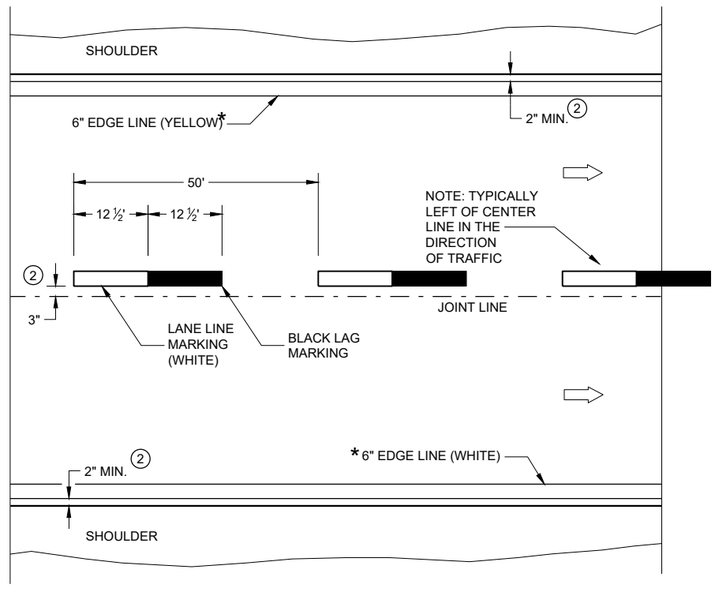
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

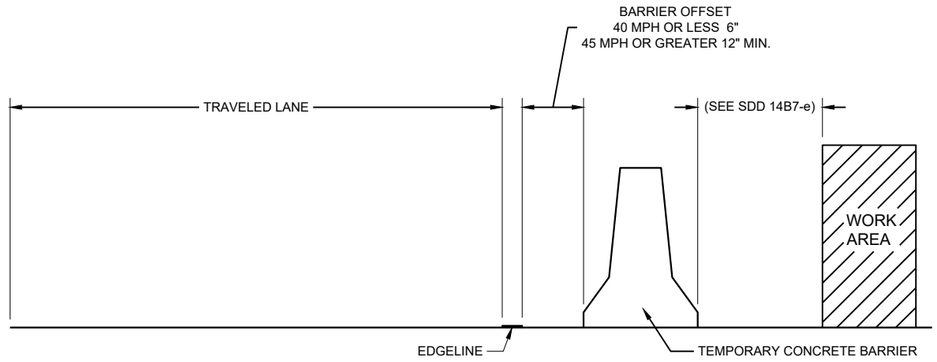
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May 2023 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

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SDD 15C08-23a

SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

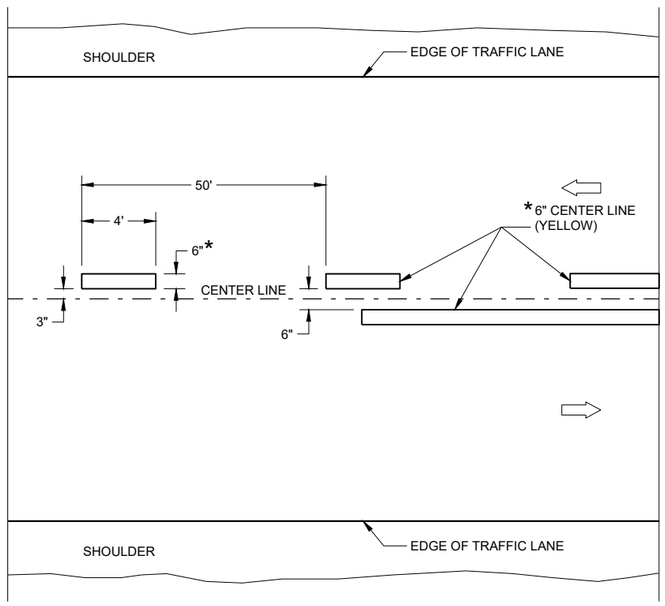
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

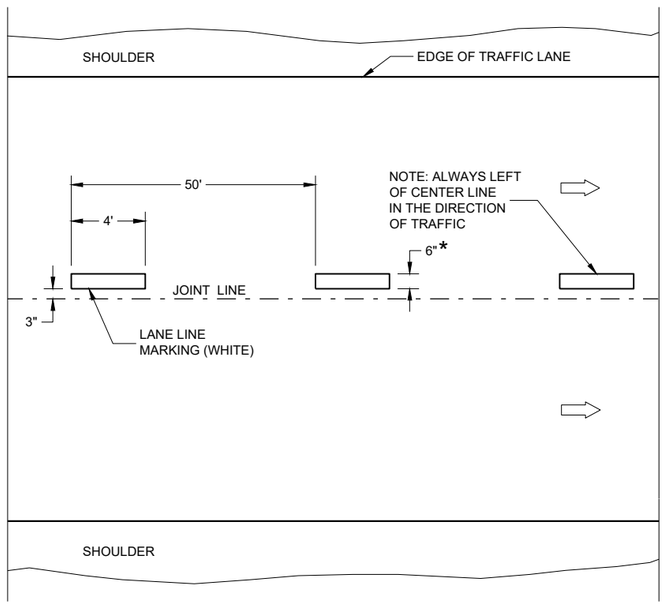
LEGEND

⇨ DIRECTION OF TRAFFIC

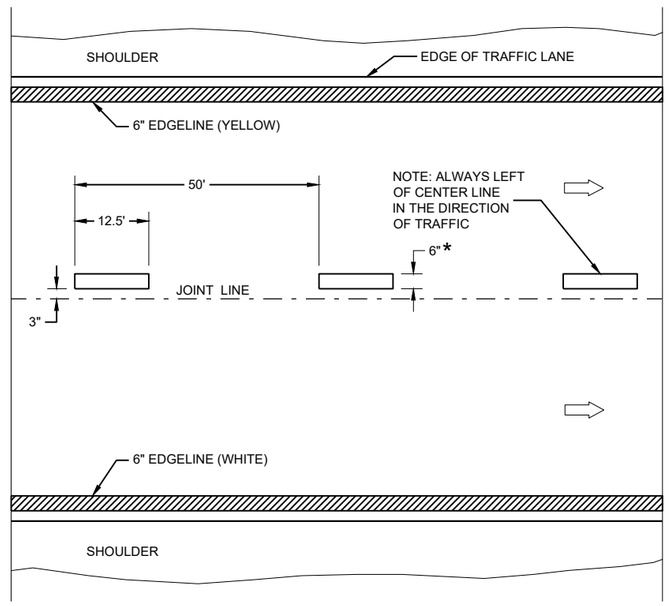
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
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May 2023 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

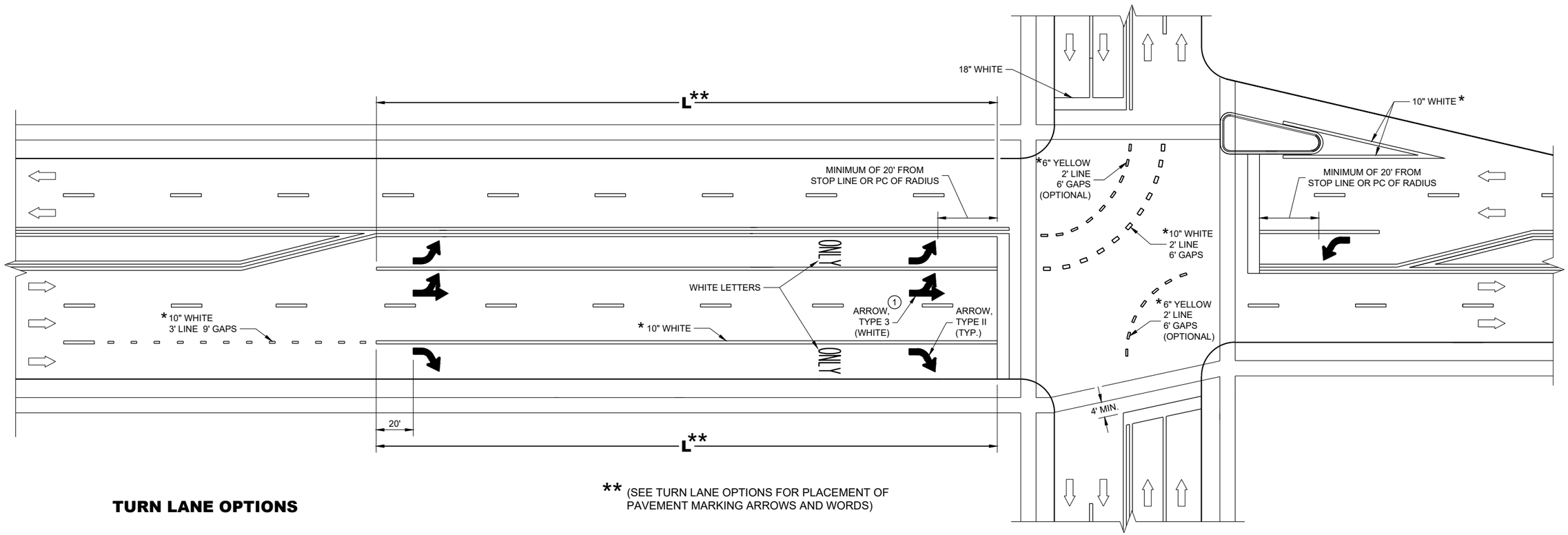
FHWA

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SDD 15C08-23b

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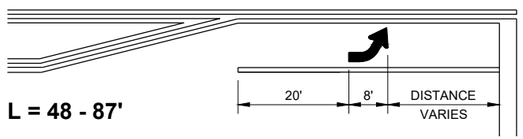
SDD 15C08-23b



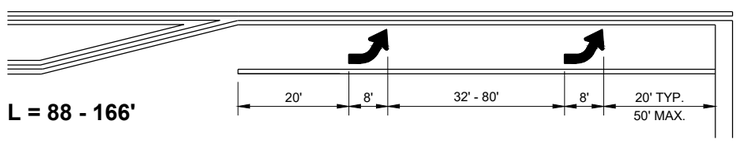
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

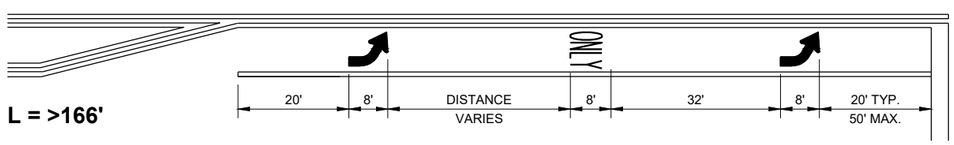
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

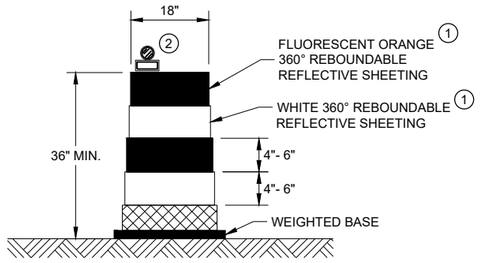
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SDD 15C08-23d

SDD 15C08-23d

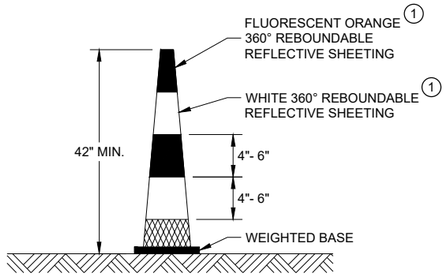
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

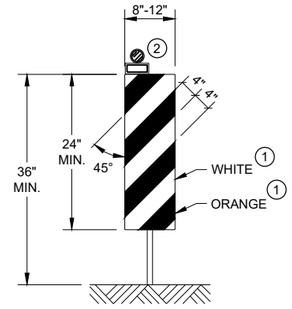
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

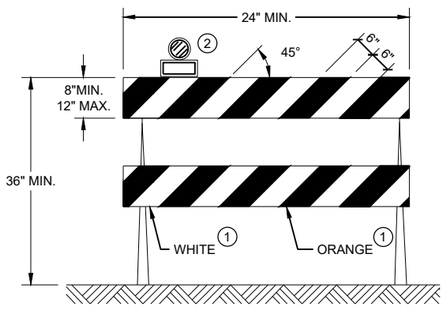
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



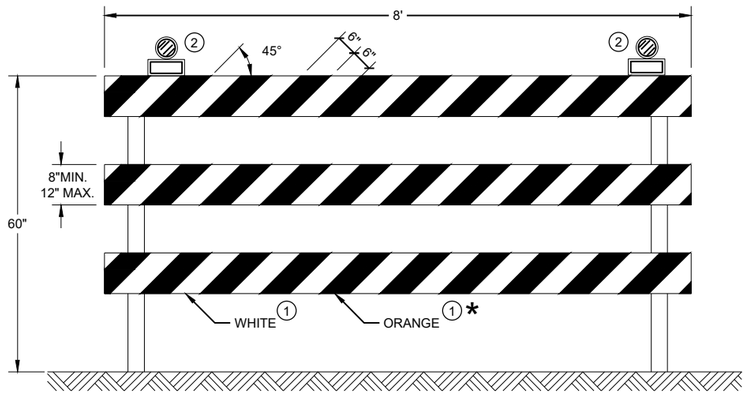
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

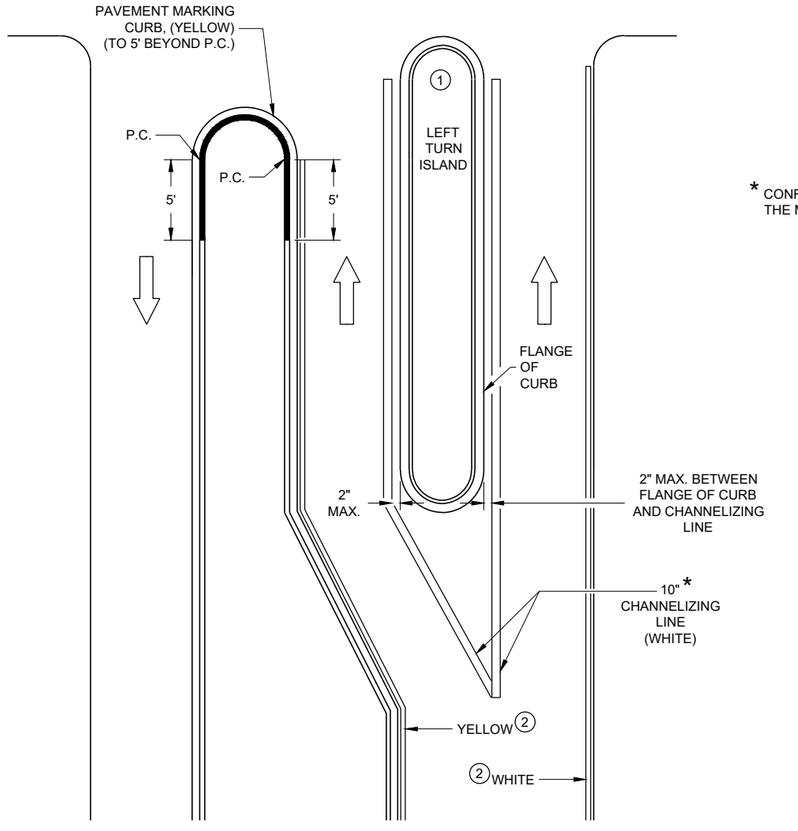
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SDD 15C11 - 10b

6

SDD 15C11 - 10b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEFT TURN & MEDIAN ISLAND

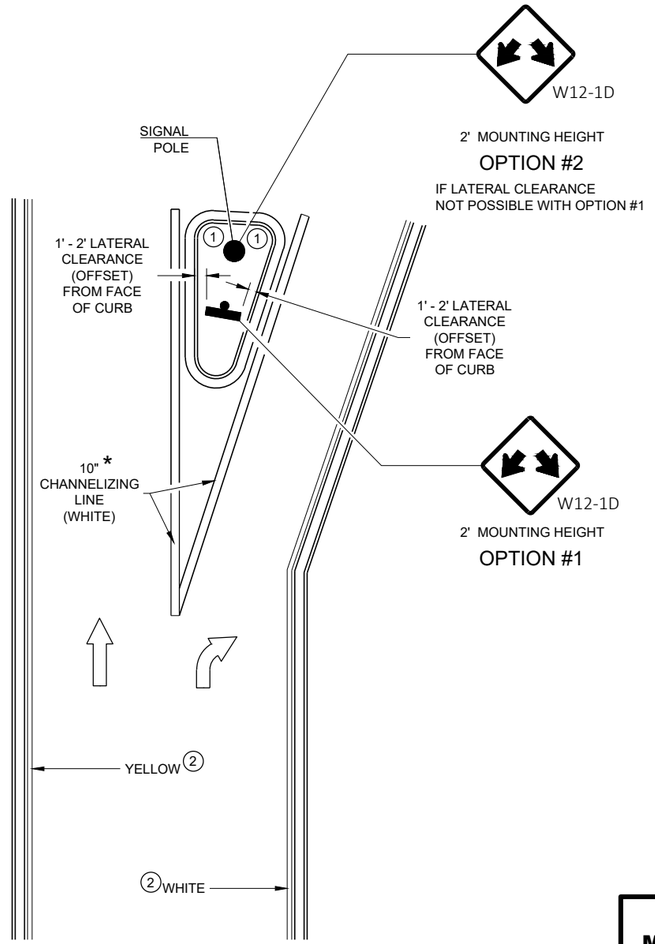
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MAF ENGINEER

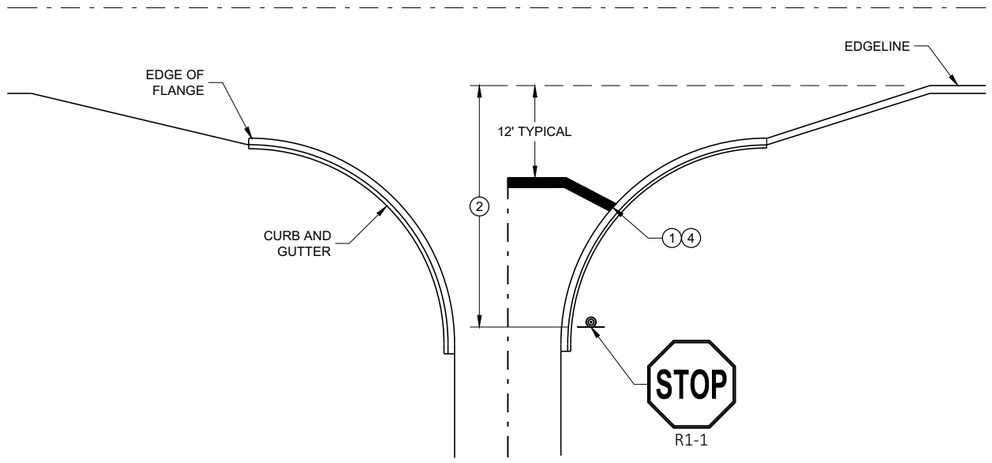
FHWA

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SDD 15C18-08c

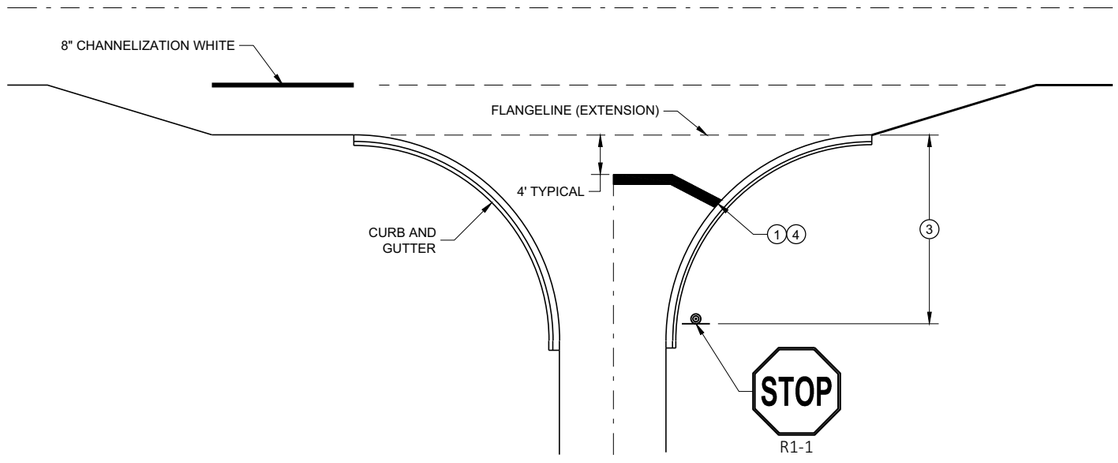
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

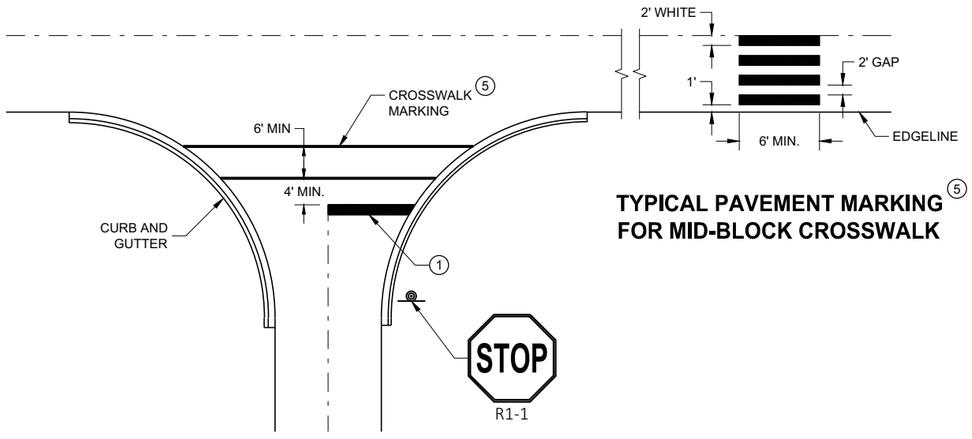
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

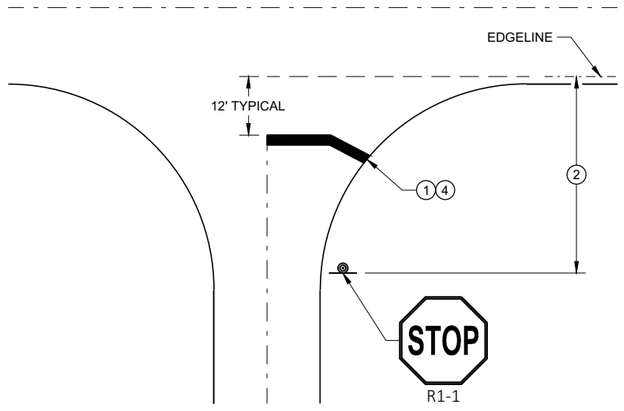


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK (5)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

6

SDD 15C33 - 04

6

SDD 15C33 - 04

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

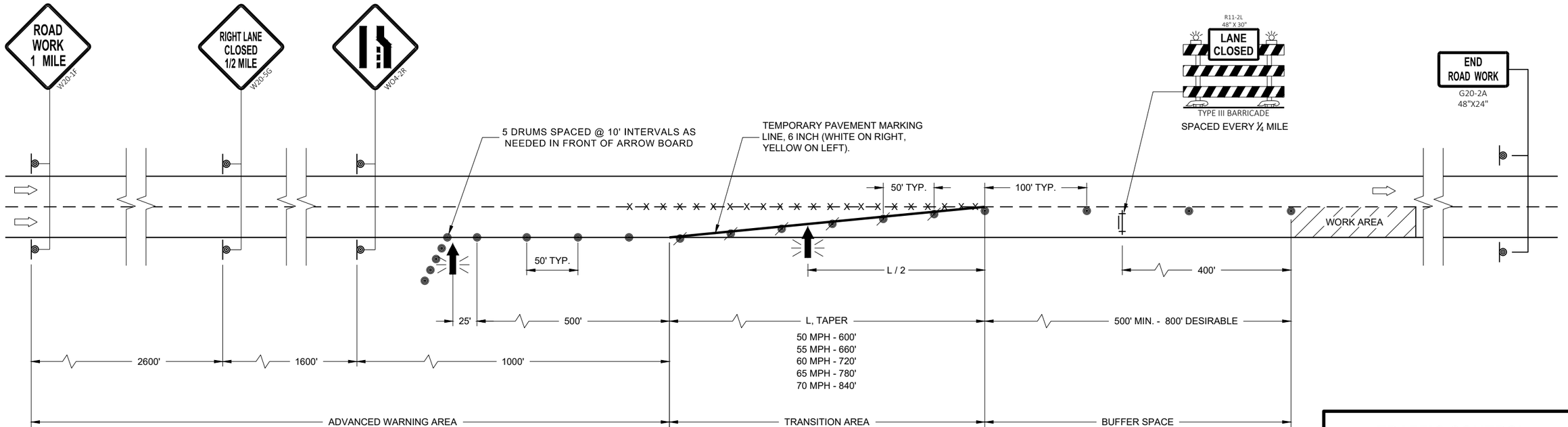
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D12 - 11a

6

SDD 15D12 - 11a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

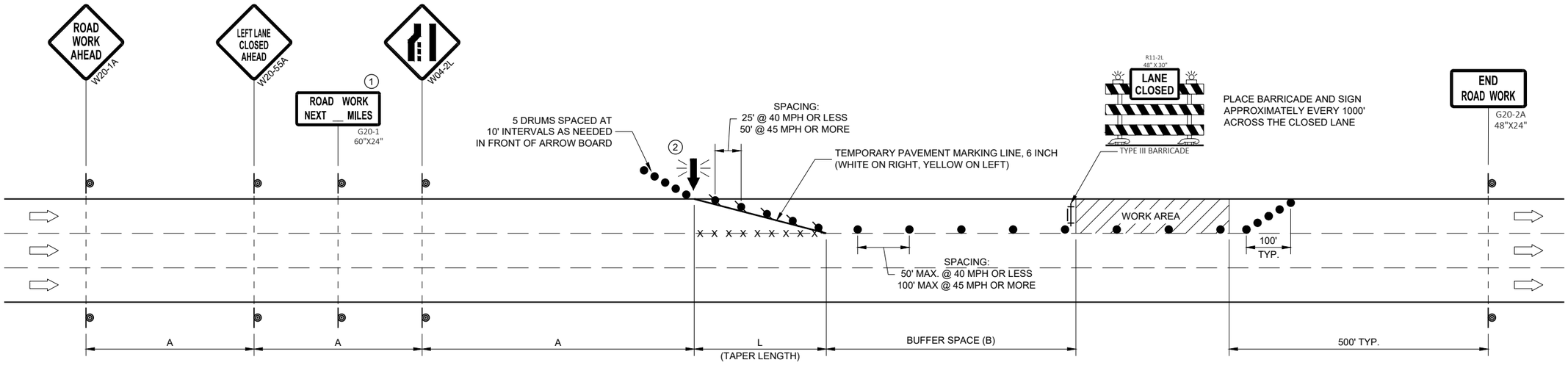
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D20-07a
SDD 15D20-07a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA



GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

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REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'



TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D20-07b
SDD 15D20-07b

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

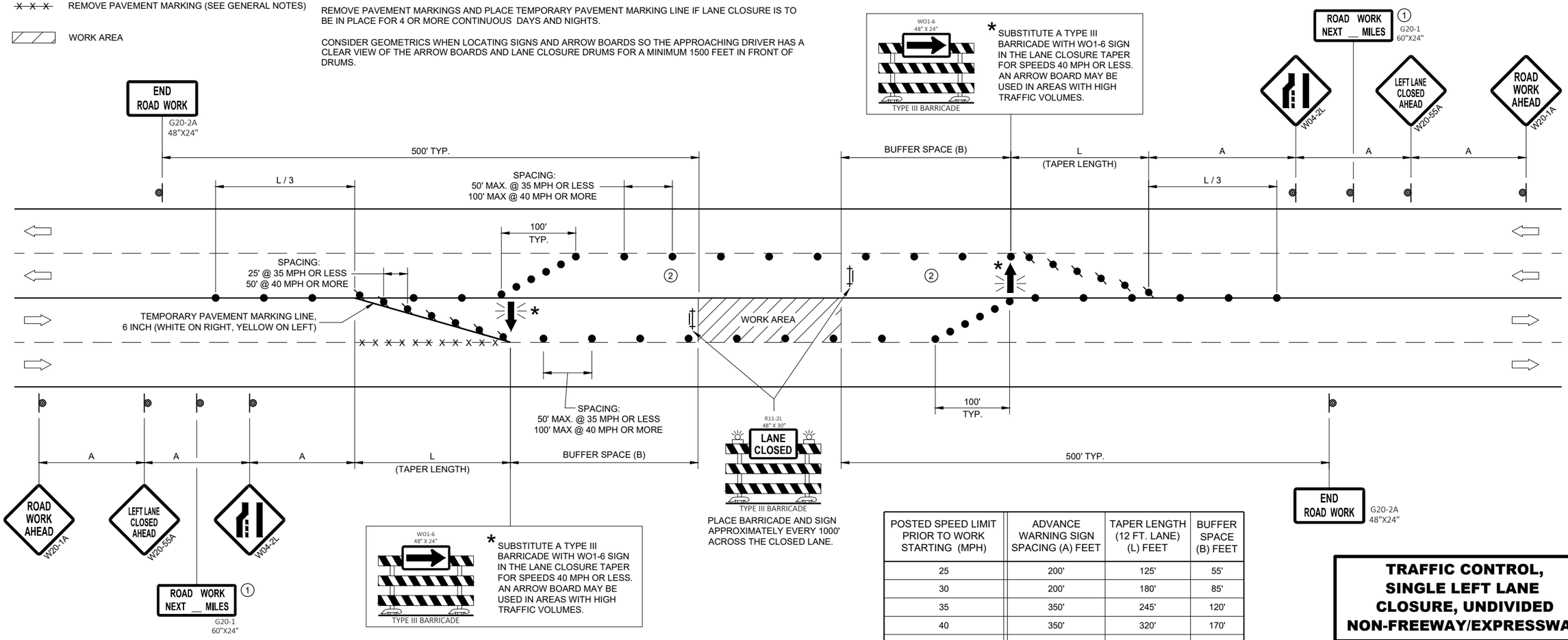
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) LANE MAY BE OPENED WHEN WORKERS ARE NOT PRESENT IN THE WORK AREA.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'

TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

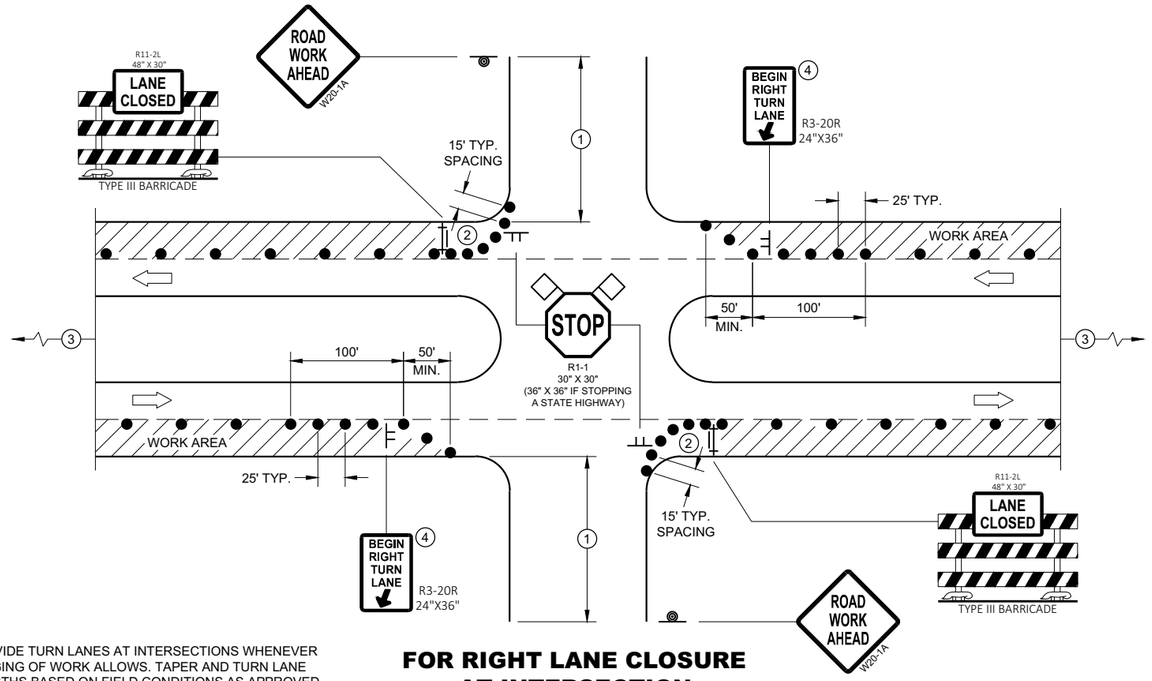
FHWA

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SDD 15D20-07c

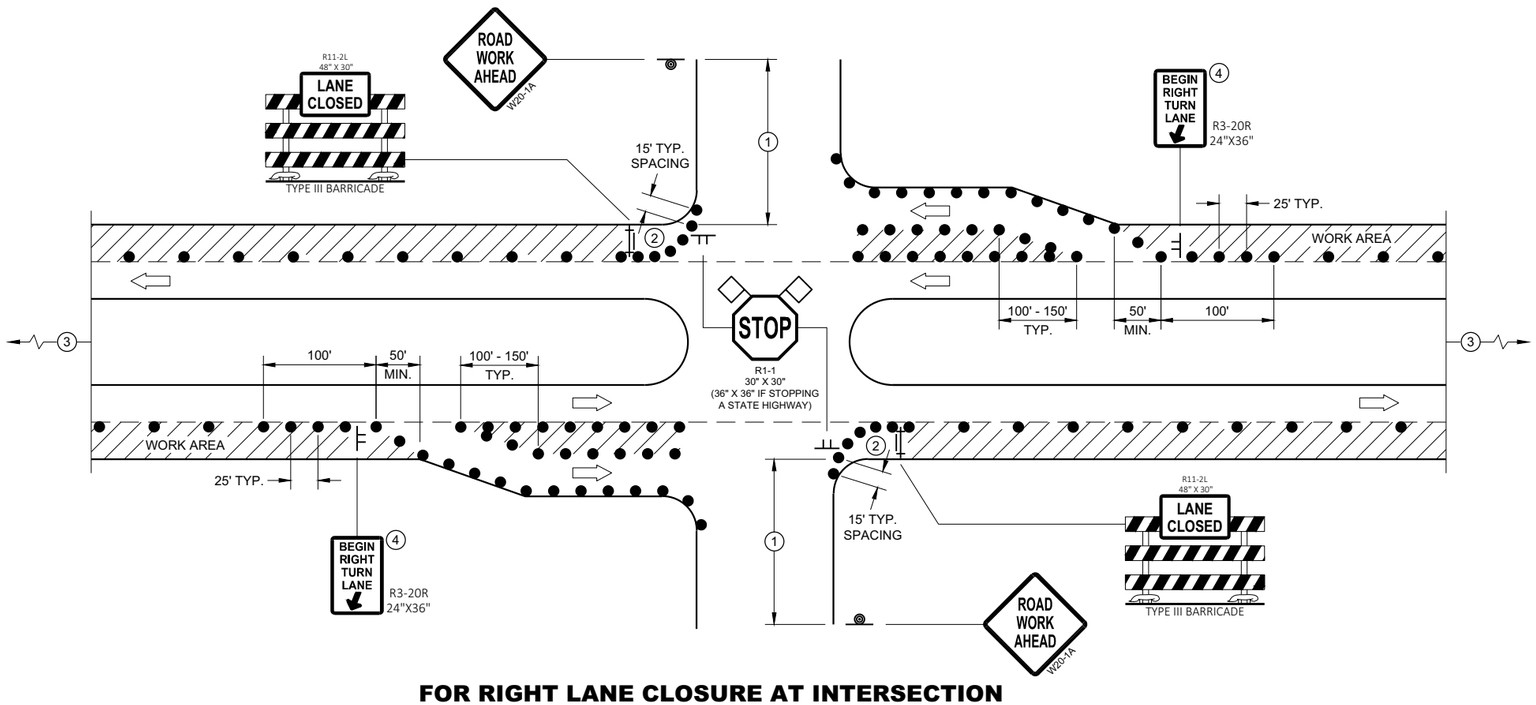
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SDD 15D20-07c



FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

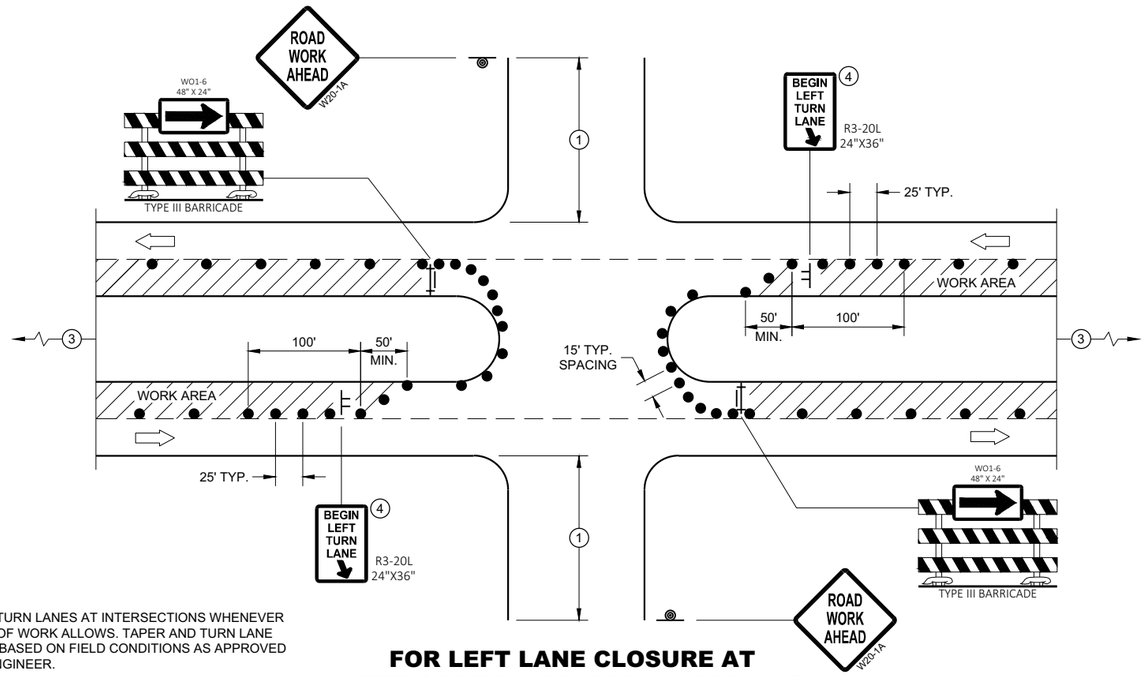
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a

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SDD 15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

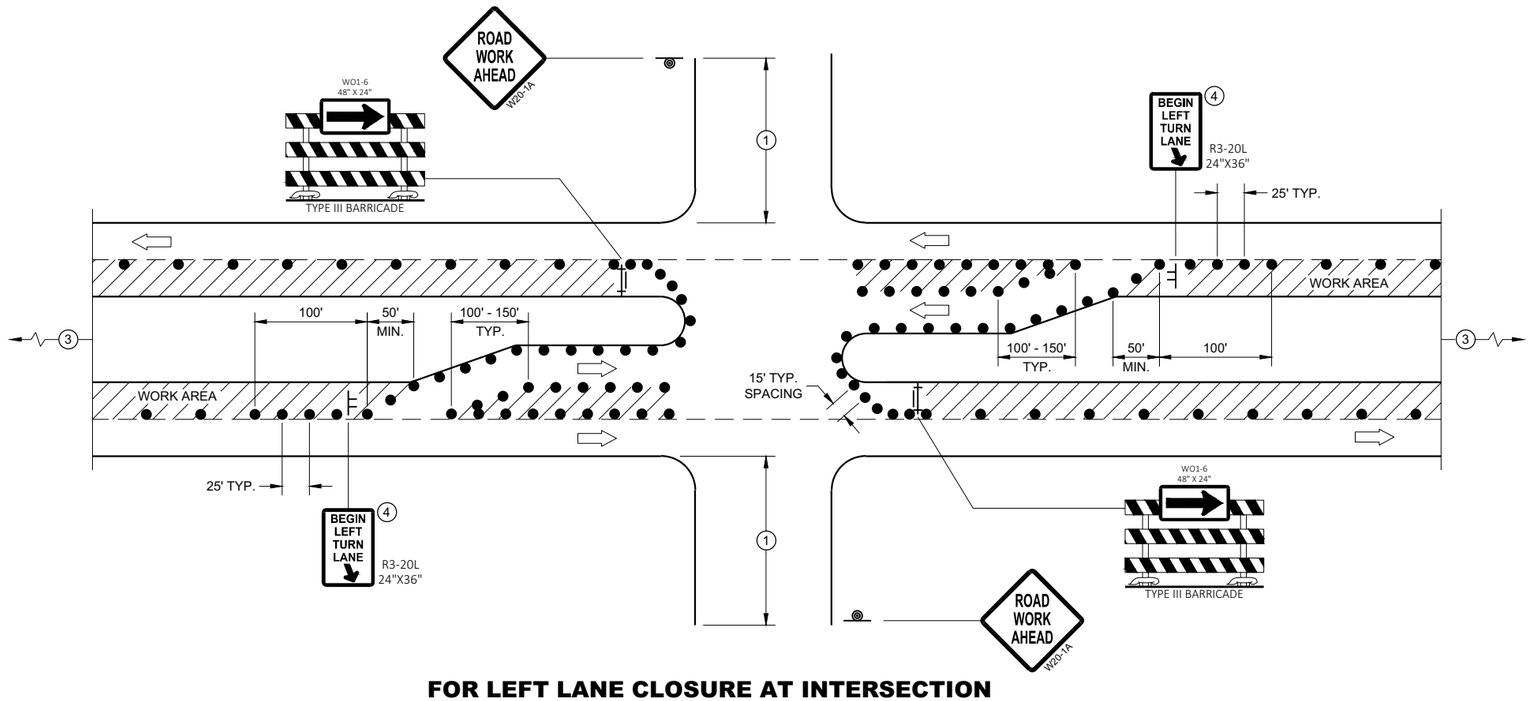
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D21 - 07b

6

SDD 15D21 - 07b

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

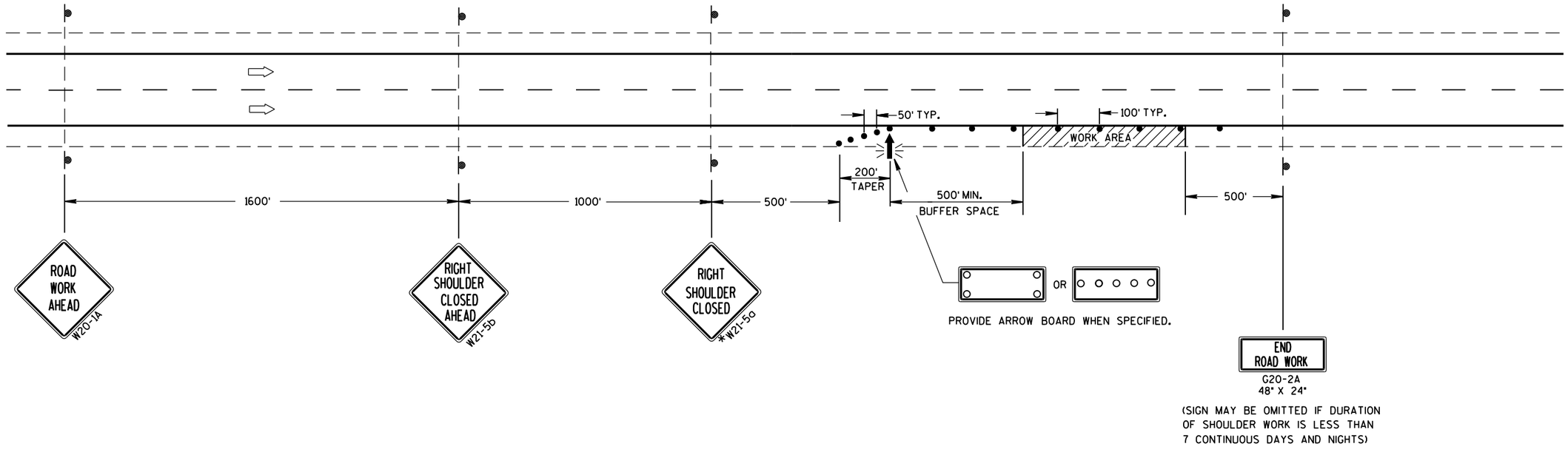
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] TIC SAFETY ENGI[illegible]

FHWA

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S.D.D. 15 D 27-3

GENERAL NOTES

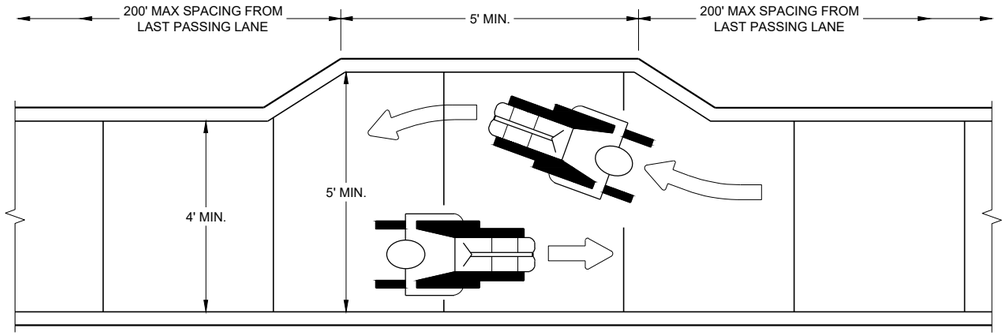
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

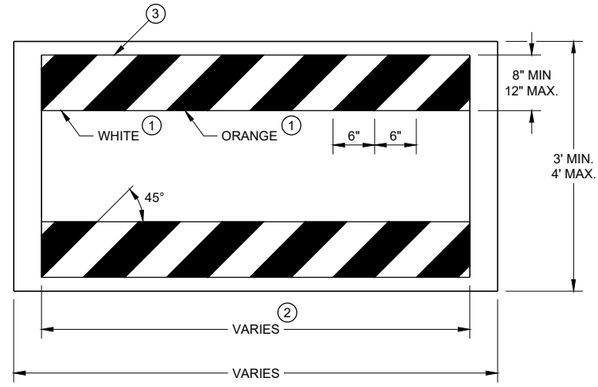
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

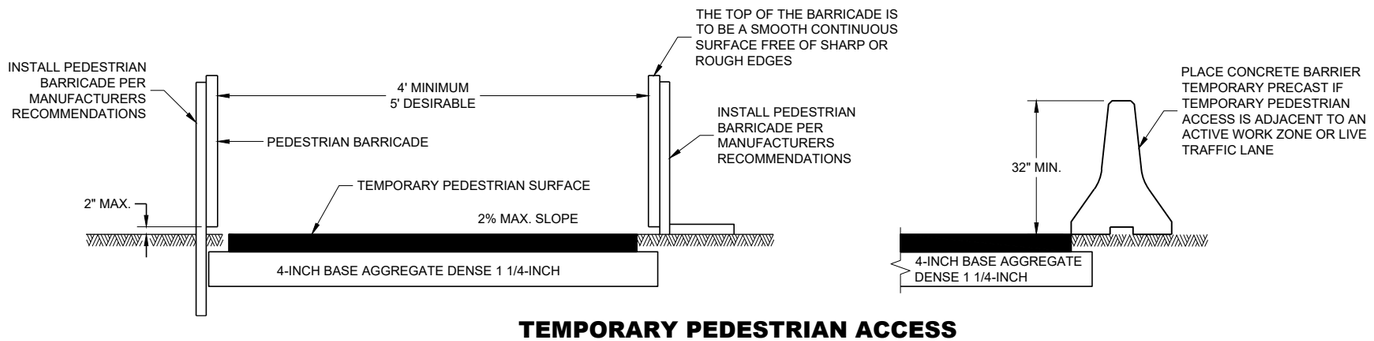
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*

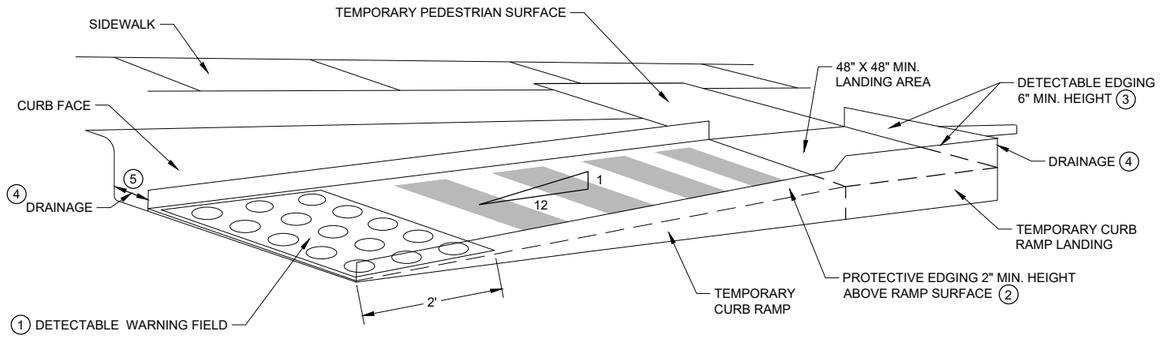


TEMPORARY PEDESTRIAN ACCESS

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 08a



PERSPECTIVE VIEW

GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.

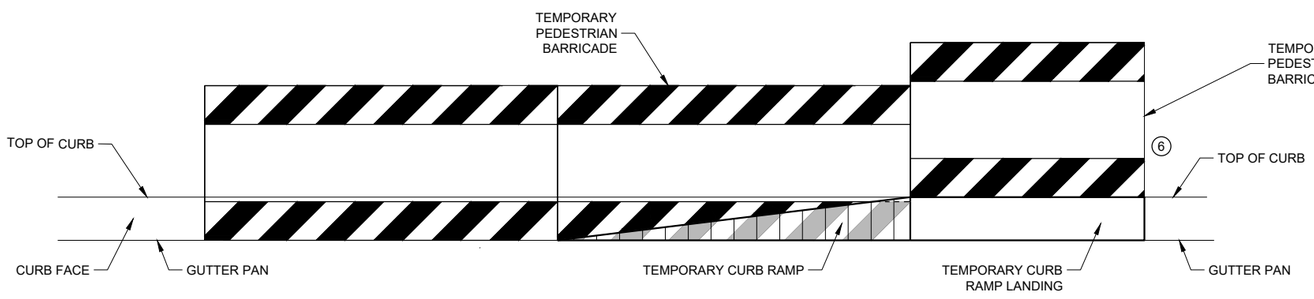
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

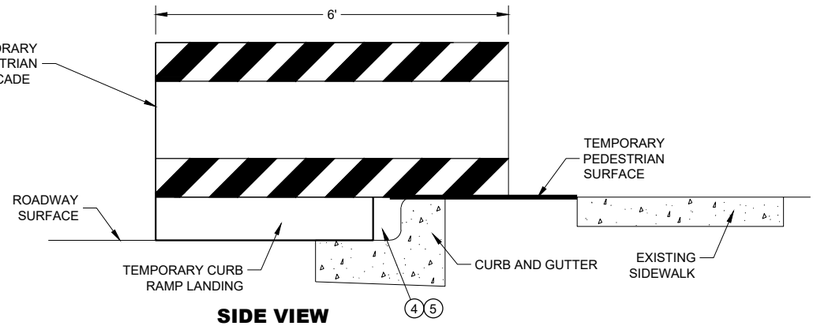
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.

(6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



FRONT VIEW



SIDE VIEW

TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

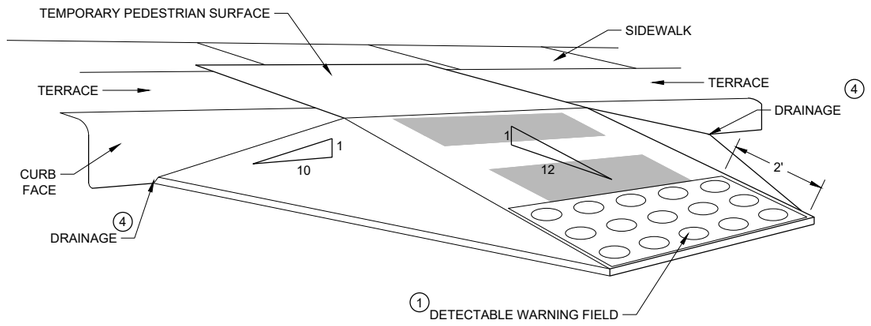
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

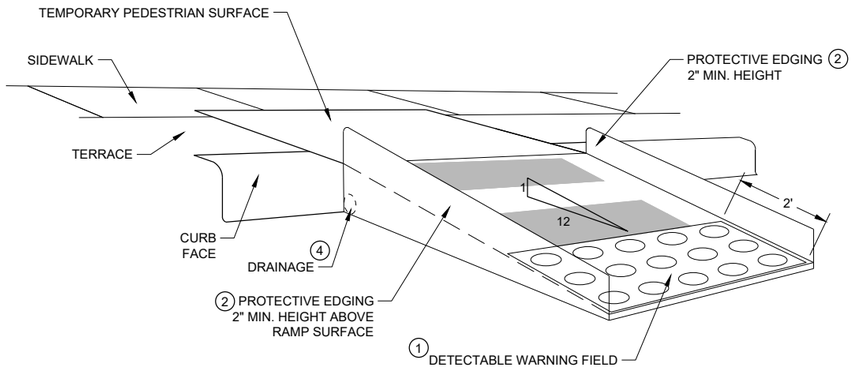
SDD 15D30 - 08b

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SDD 15D30 - 08b



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

GENERAL NOTES

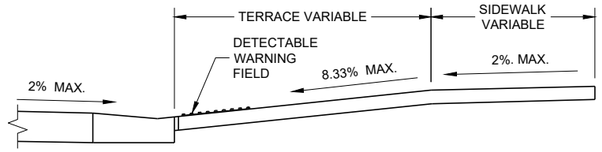
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

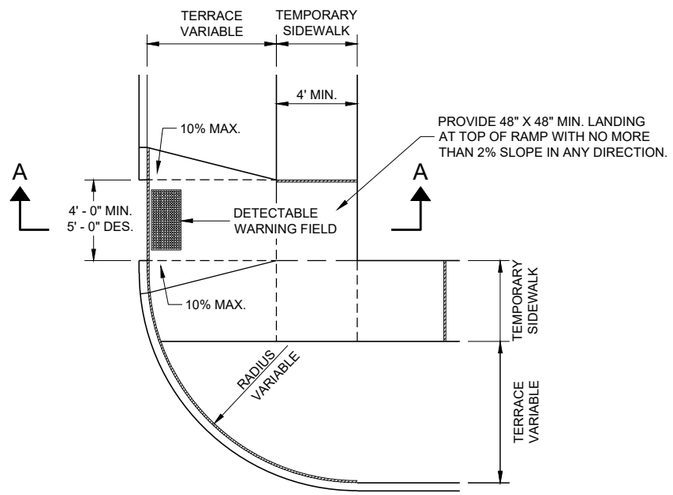
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

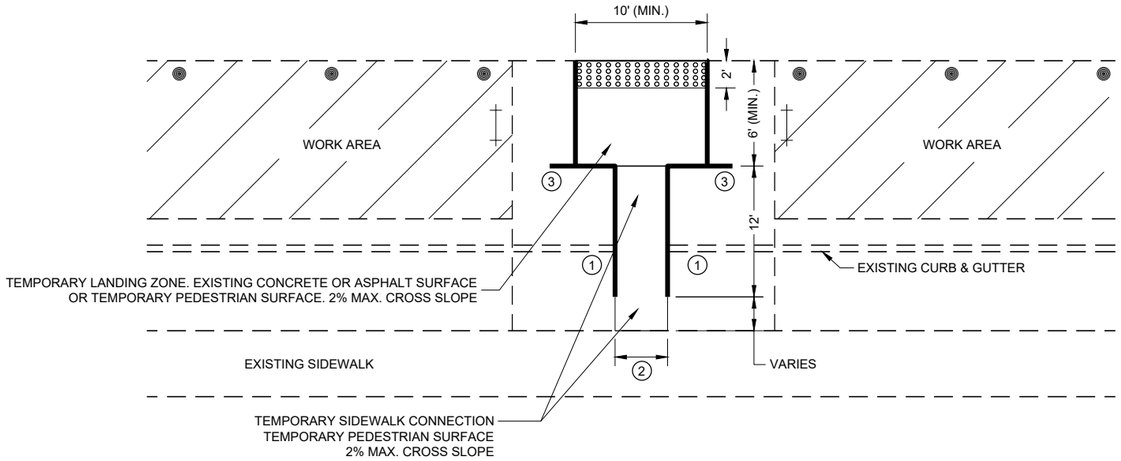
APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

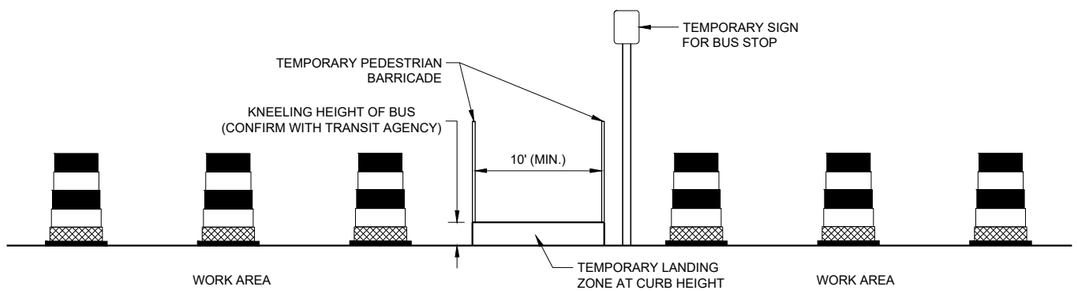
FHWA

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SDD 15D30-08d



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA

6

SDD 15D30 - 08e

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

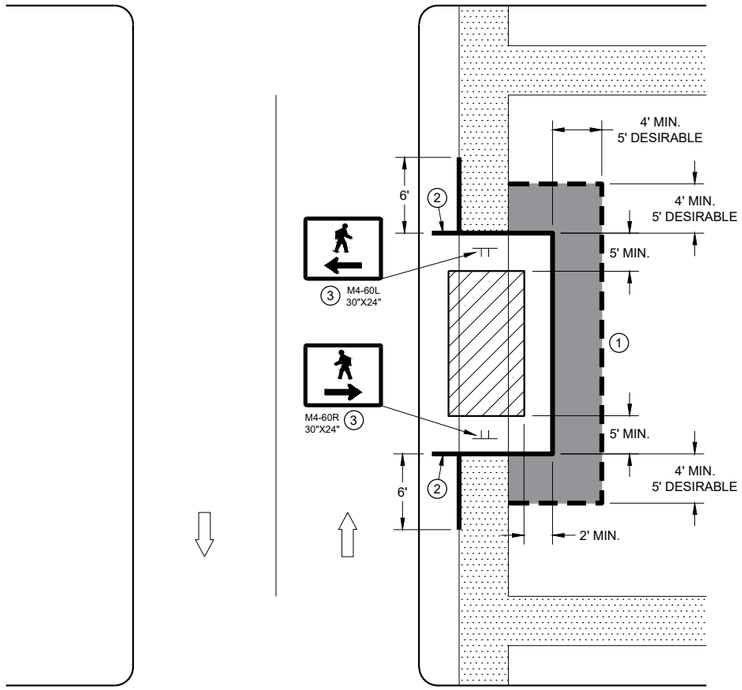
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

1. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
2. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DIVERSION
SINGLE SIDE

6

SDD 15D30 - 08g

6

SDD15D30 - 08g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

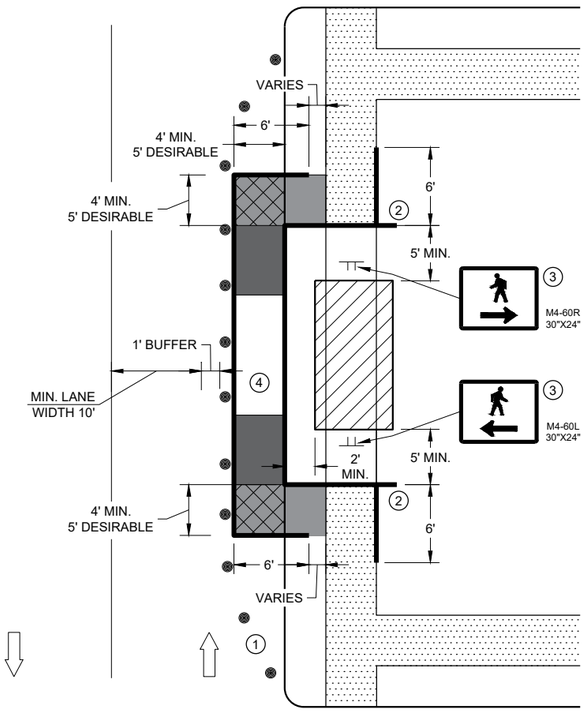
GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.
2. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
4. USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.



SIDEWALK DIVERSION, SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

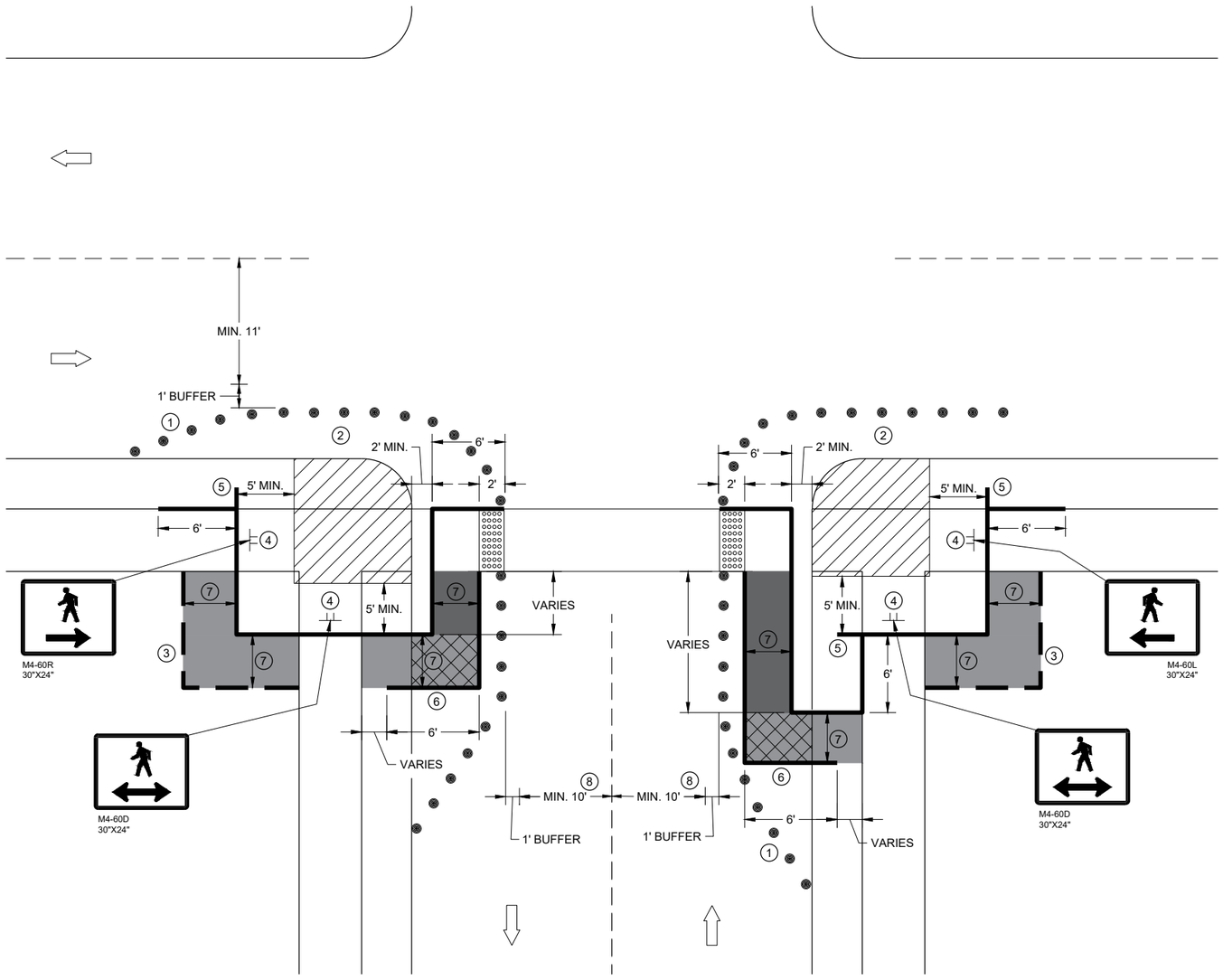
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 15D30 - 08h

6

SDD 15D30 - 08h



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.

(2) PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS

(3) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(4) MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.

(5) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.

(6) IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.

(7) 4 FEET MINIMUM, 5 FEET DESIRABLE

(8) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

SDD 15D30 - 08i

6

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER (L/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

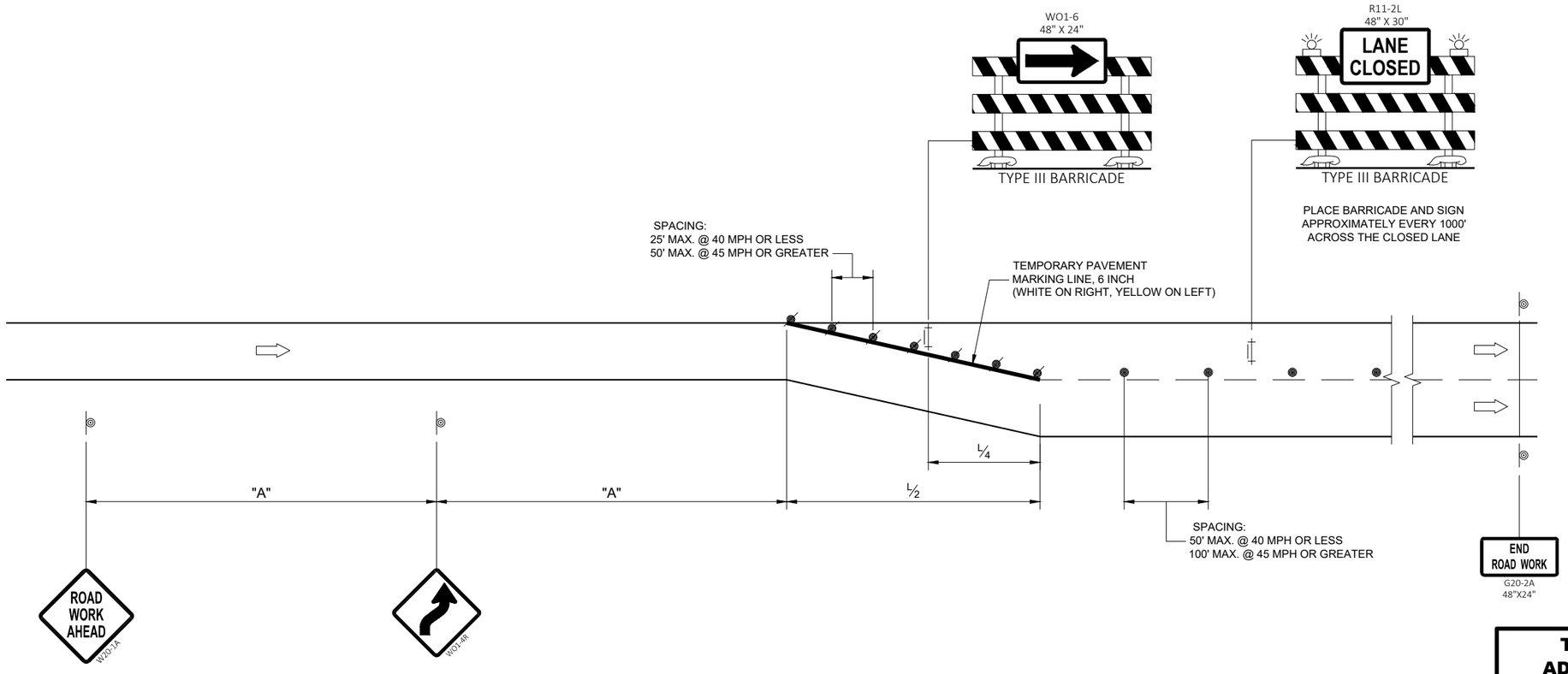
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

PLACE TEMPORARY PAVEMENT MARKING AND PLACE TEMPORARY PAVEMENT LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.



TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

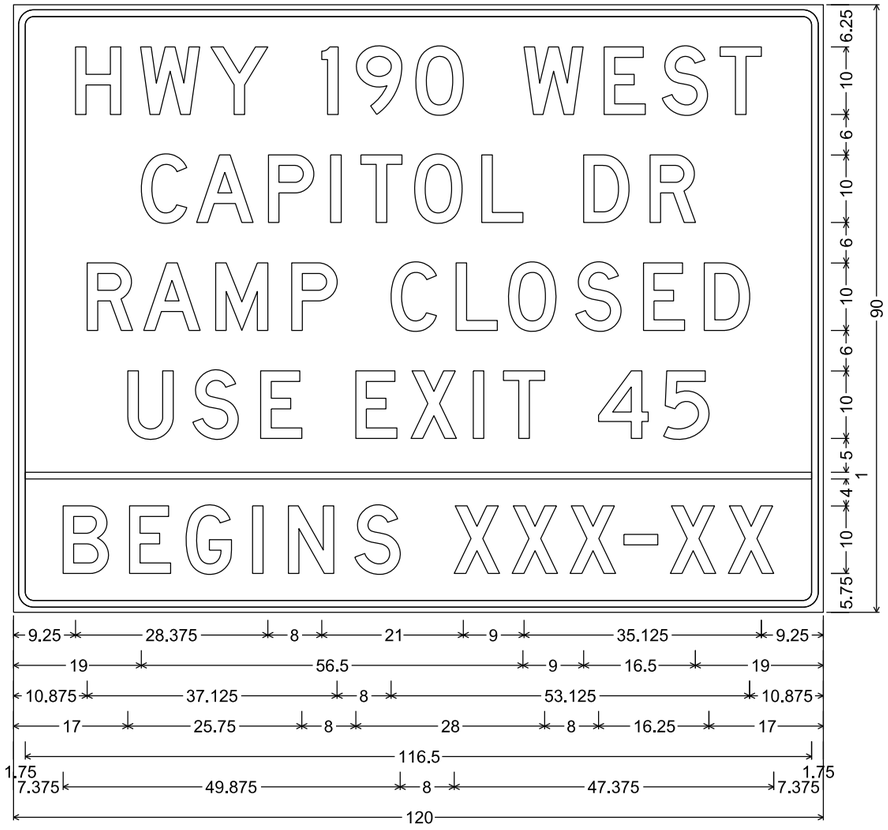
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

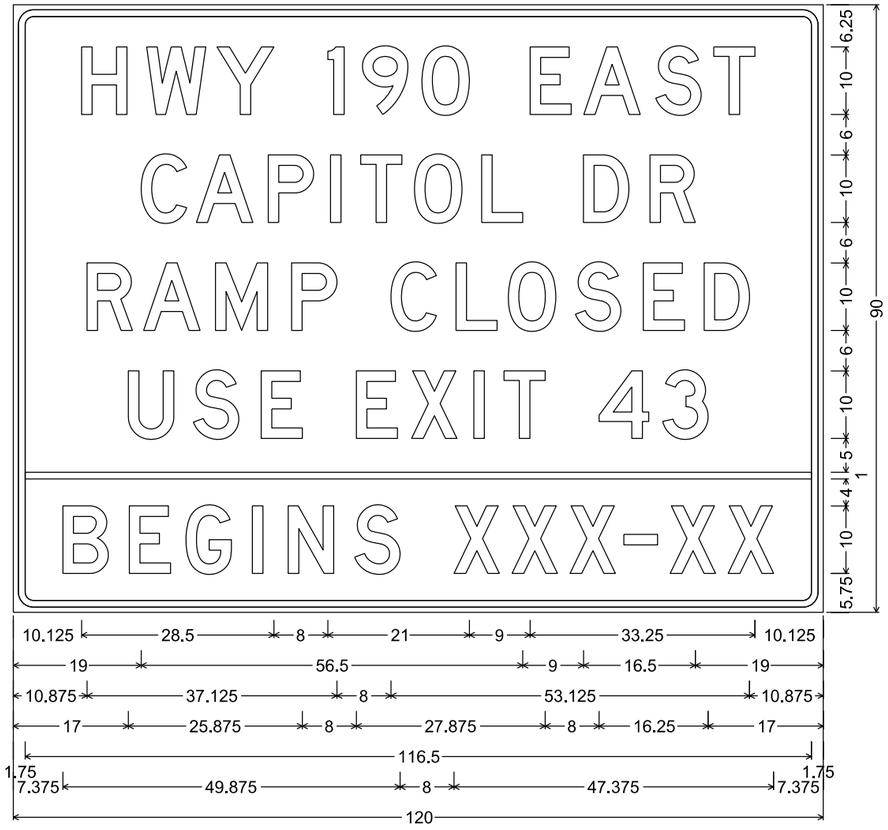
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SDD 15D50-03b

NOTES

1. Fixed Message signs are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



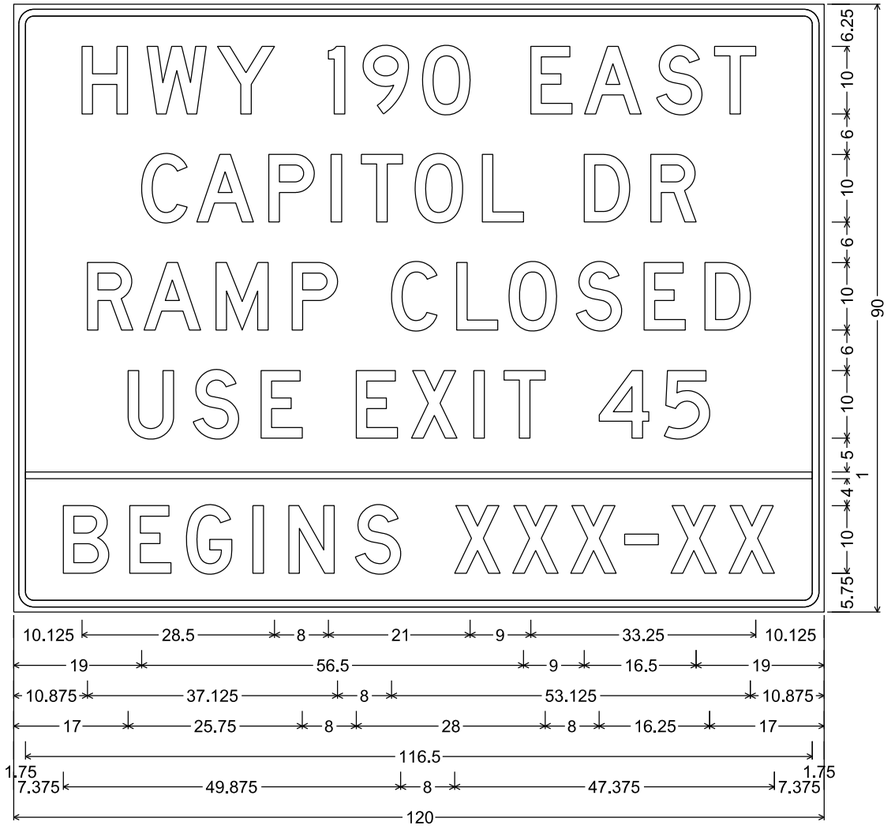
3.000" Radius, 1.000" Border, 0.750" Indent



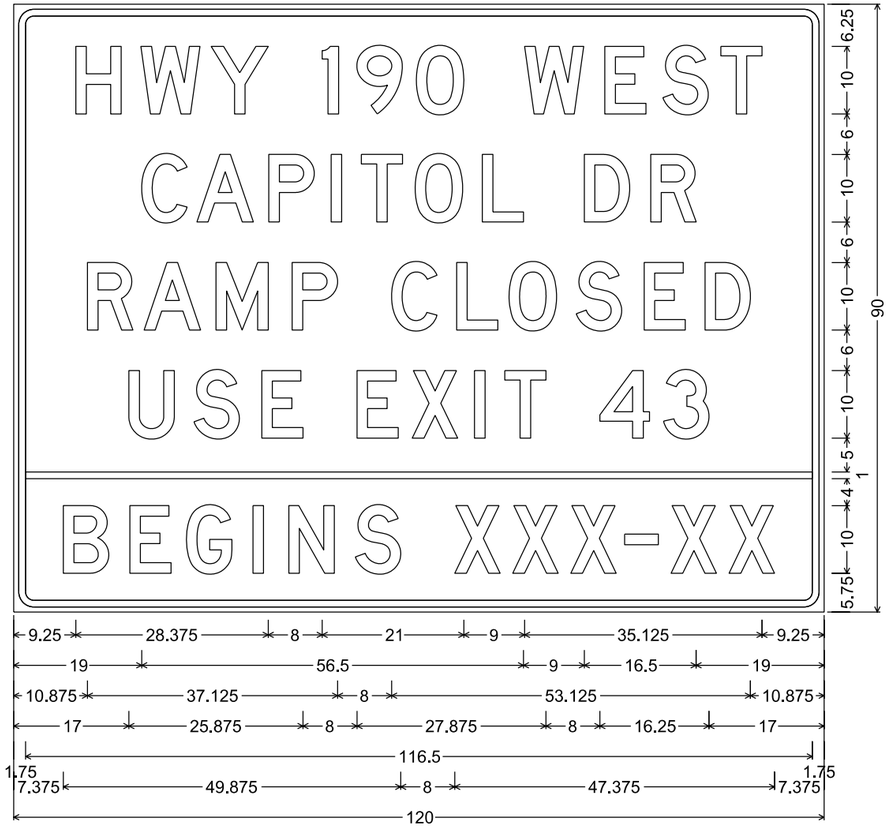
3.000" Radius, 1.000" Border, 0.750" Indent

NOTES

1. Fixed Message signs are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



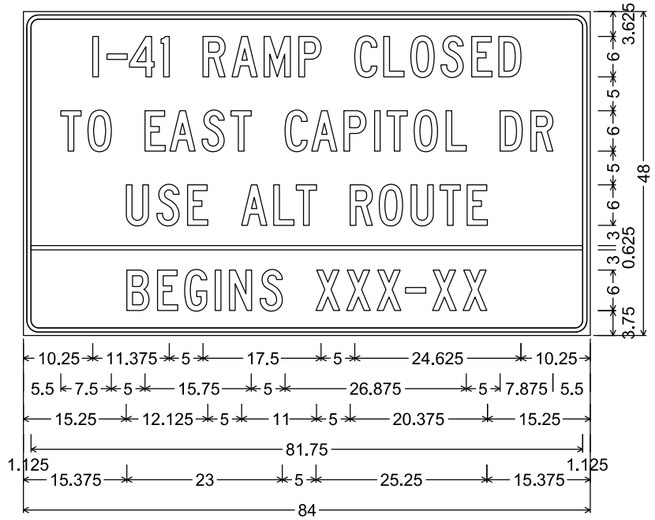
3.000" Radius, 1.000" Border, 0.750" Indent



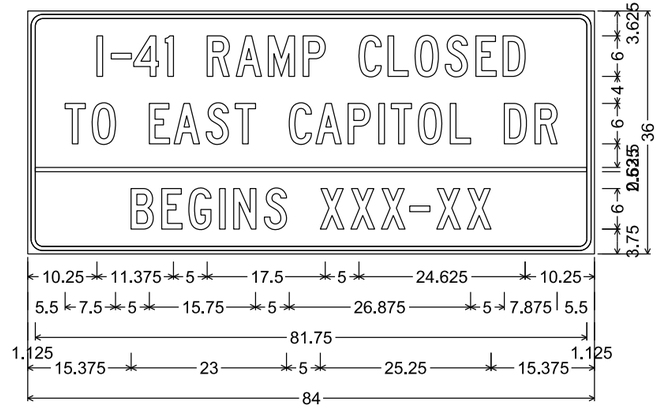
3.000" Radius, 1.000" Border, 0.750" Indent

7

7



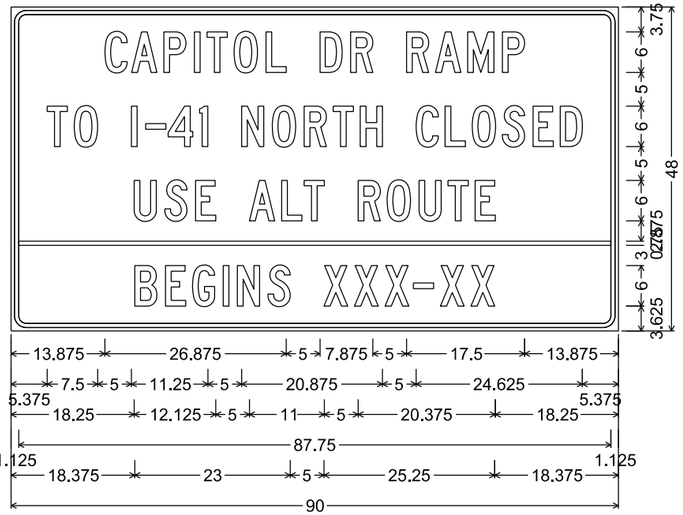
2.250" Radius, 0.625" Border, 0.500" Indent



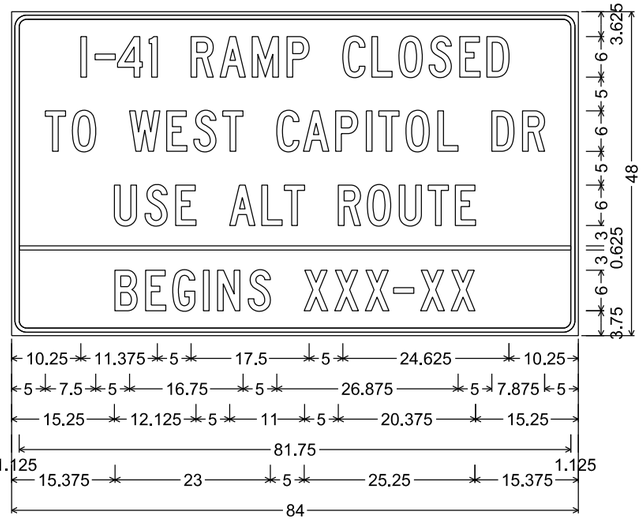
2.250" Radius, 0.625" Border, 0.500" Indent

NOTES

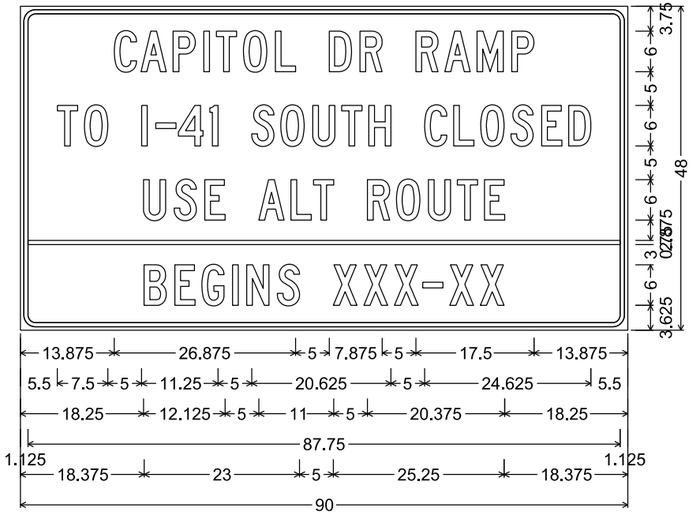
1. Fixed Message signs are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



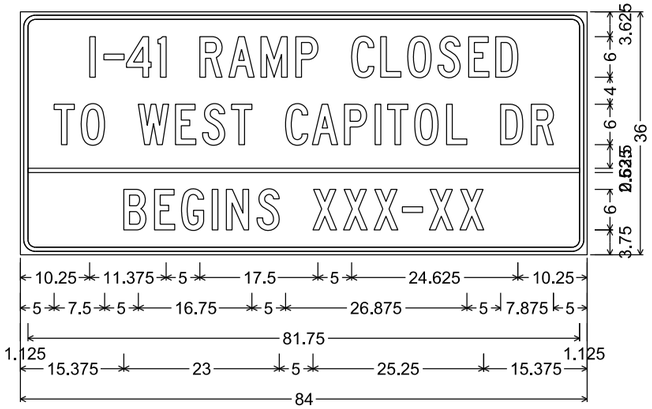
2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent

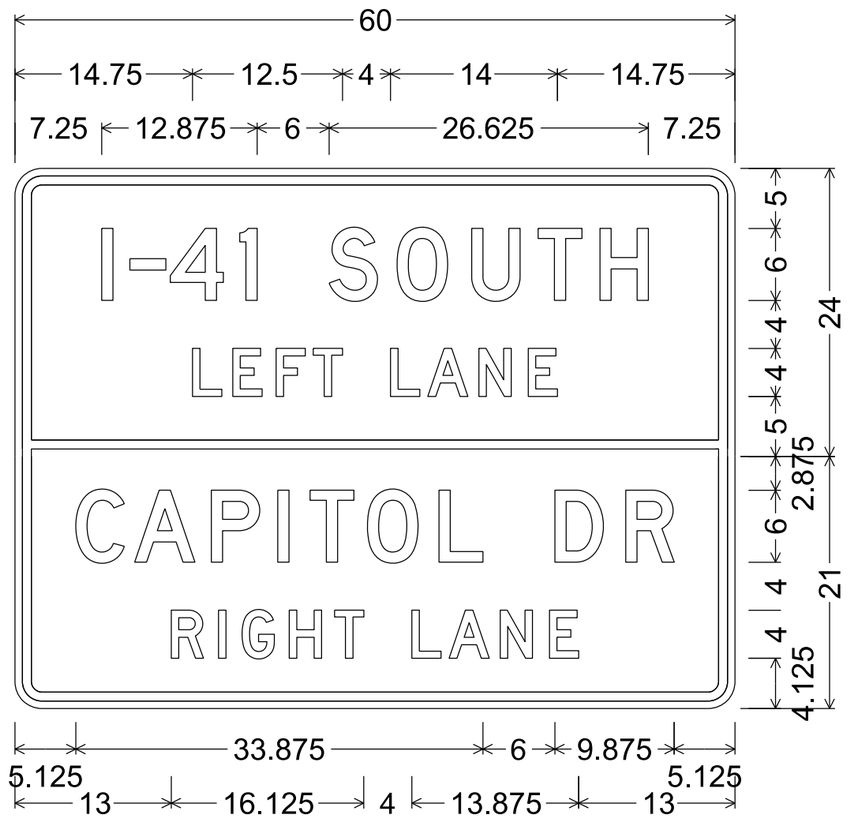
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7

PROJECT NO: 1100-20-74	HWY: IH 41	COUNTY: MILWAUKEE	TEMPORARY SIGNING	SHEET NO: 174	E

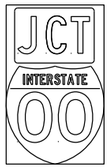
NOTES

1. Fixed Message sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D

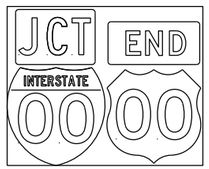


2.250" Radius, 0.750" Border, 0.625" Indent

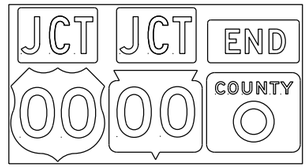
TYPICAL ASSEMBLIES



J1-1



J1-2



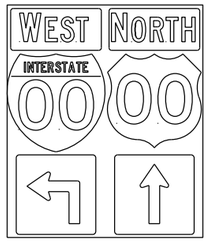
J1-3



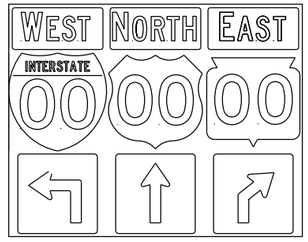
JR1-1



J2-1



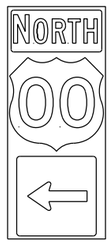
J2-2



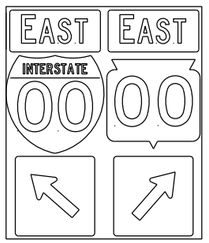
J2-3



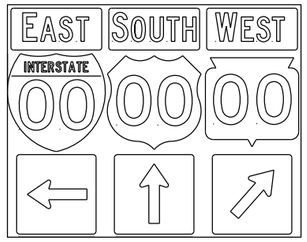
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



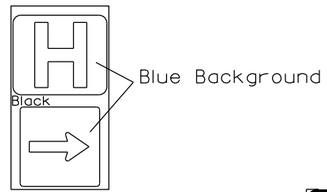
J3-1



J3-2



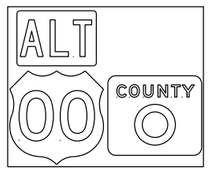
J3-3



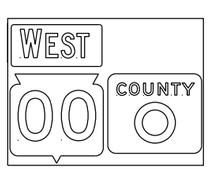
JH-1



J4-1



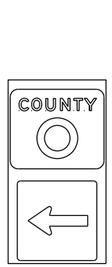
J4-2



J4-2



J12-1



J13-1



J32-1



J33-1



J22-1



J23-1



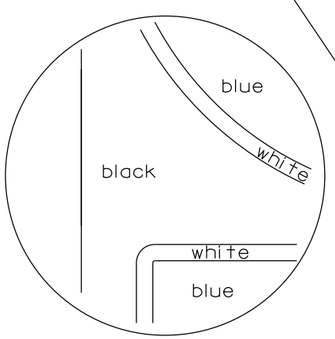
JR13-1

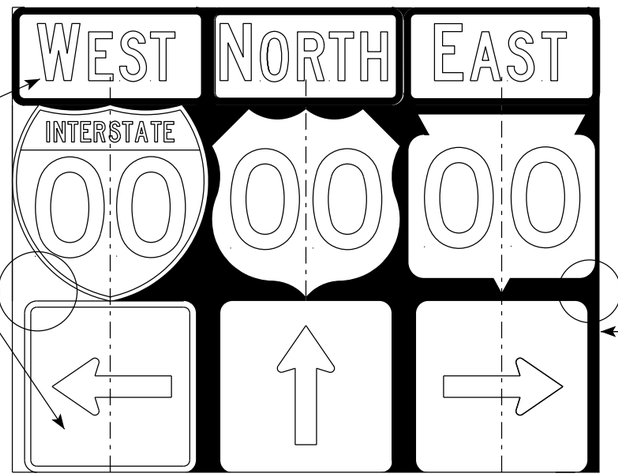


JR23-1



JR99-1





NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

SHEET NO: 176 E

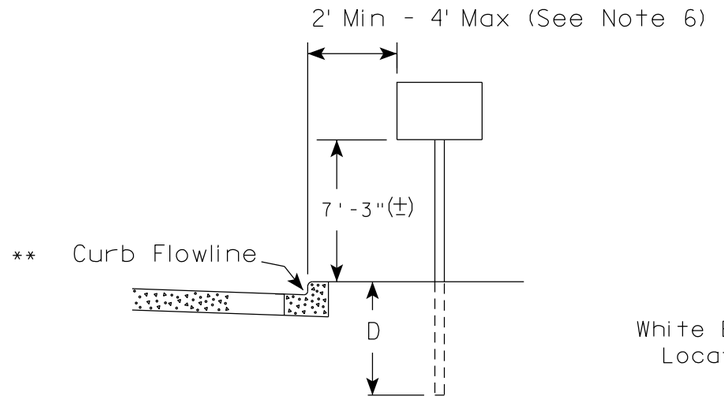
FILE NAME : C:\CAEfiles\Projects\tr_stdplate_A21S.dgn PLOT DATE : 18-MAR 2021 1:37 PLOT BY : mscj9h PLOT NAME :

WISDOT/CADDS SHEET 42

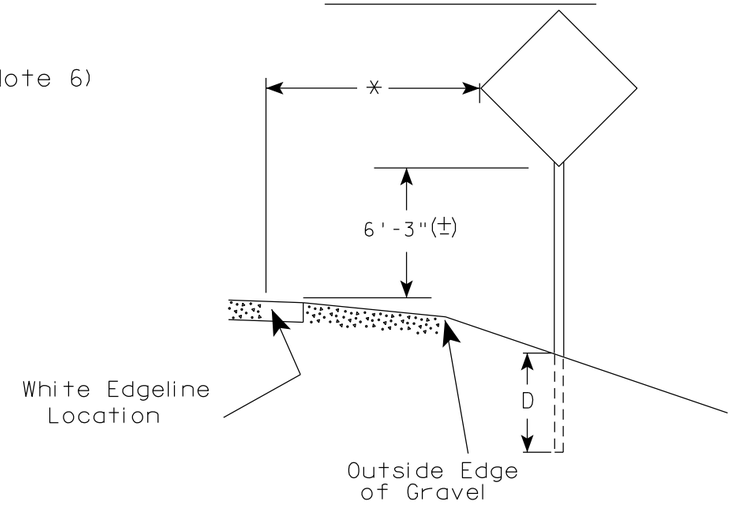
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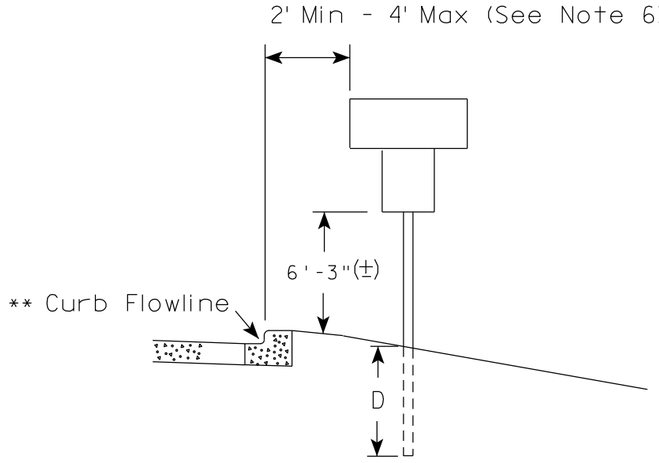
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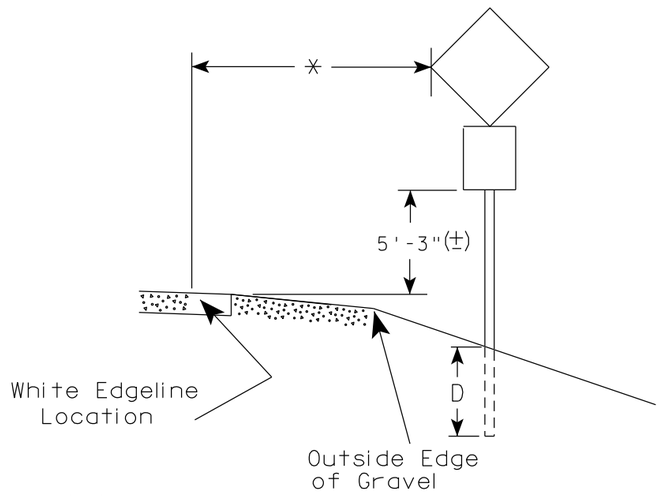
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

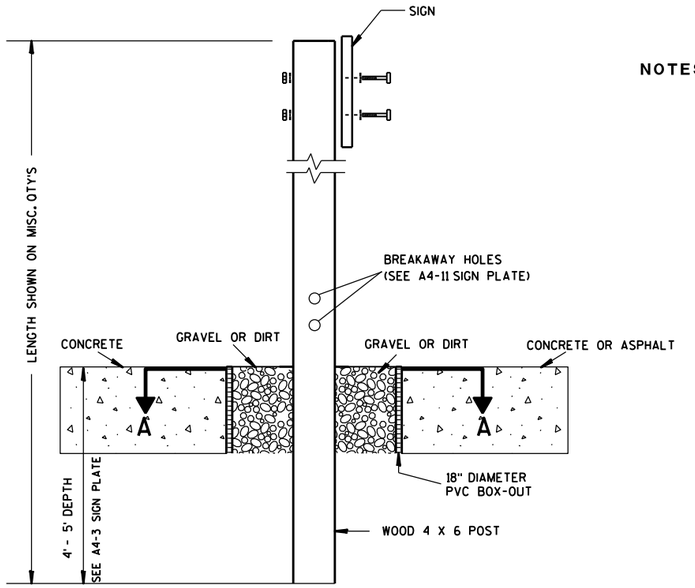
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

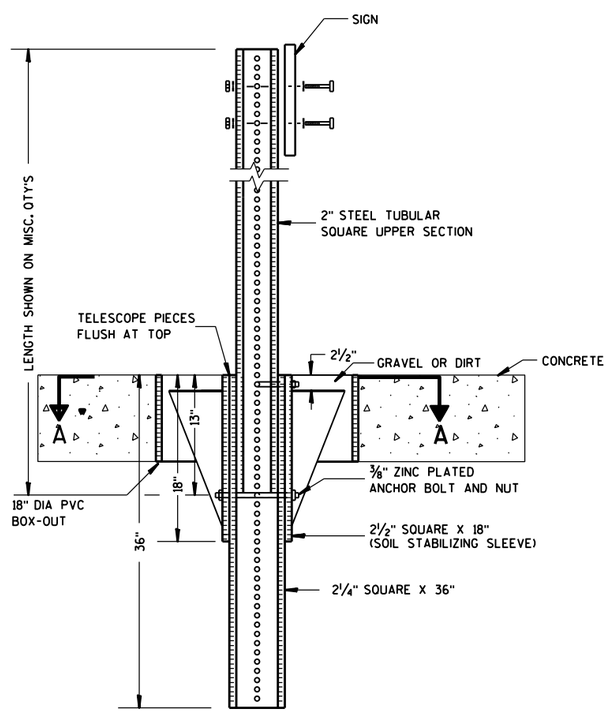
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 177	E



ELEVATION VIEW

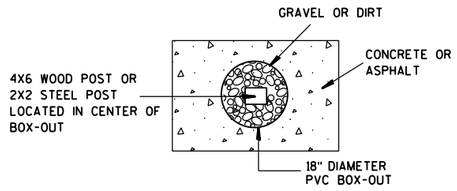
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

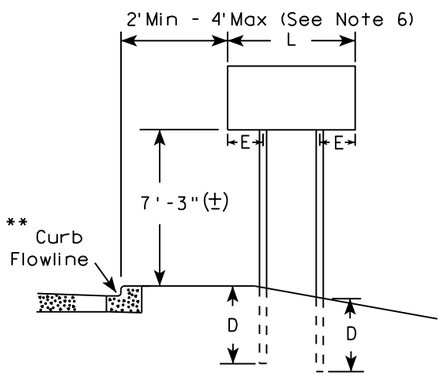
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

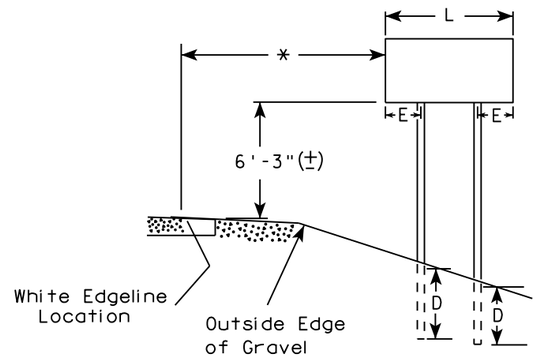
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

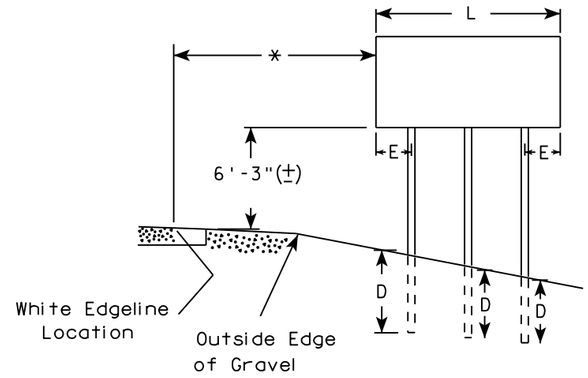
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

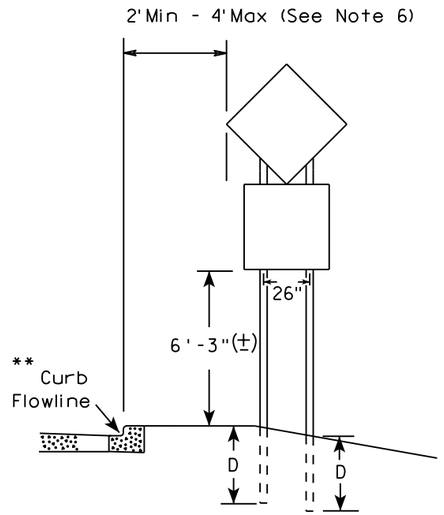
URBAN AREA



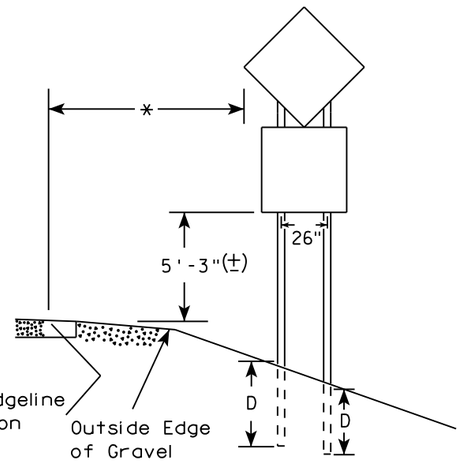
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

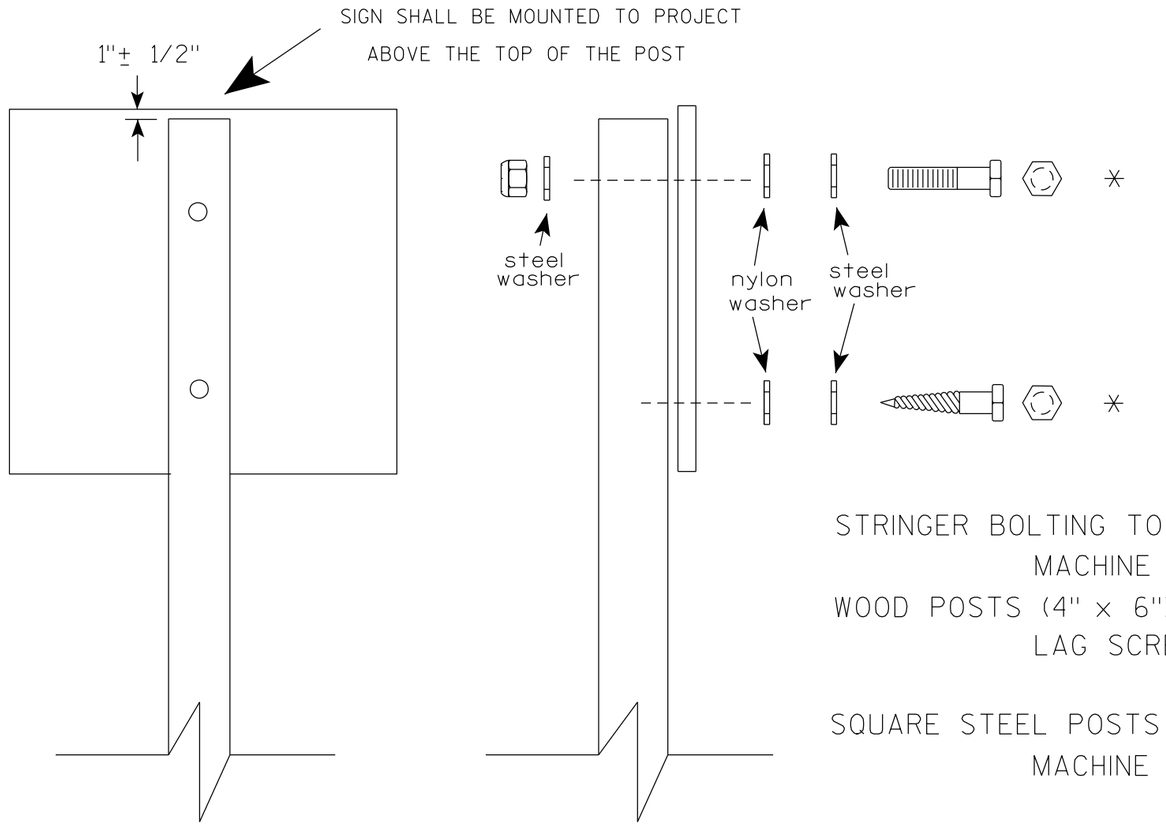
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 179	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

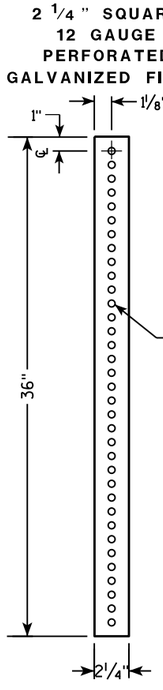
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

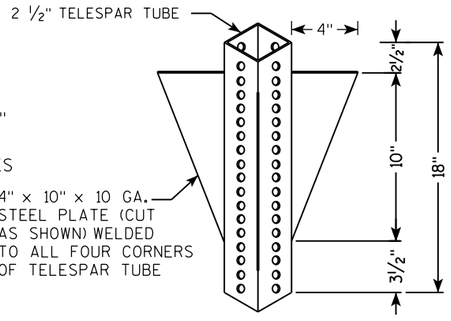
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

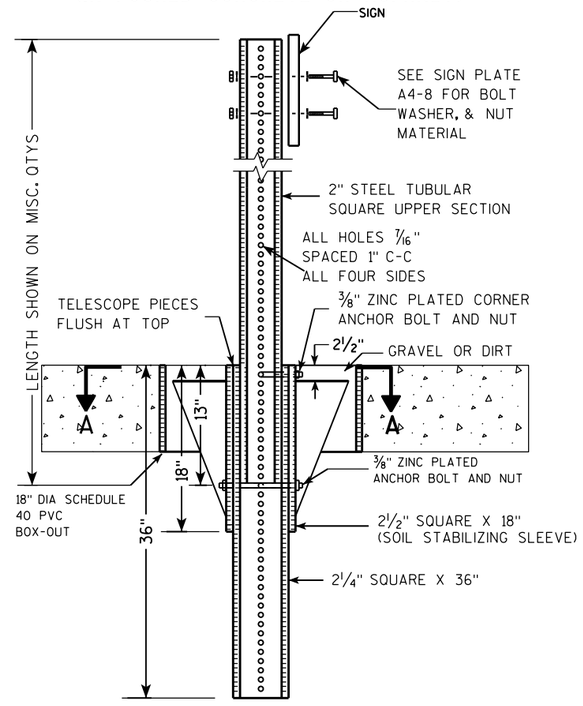
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



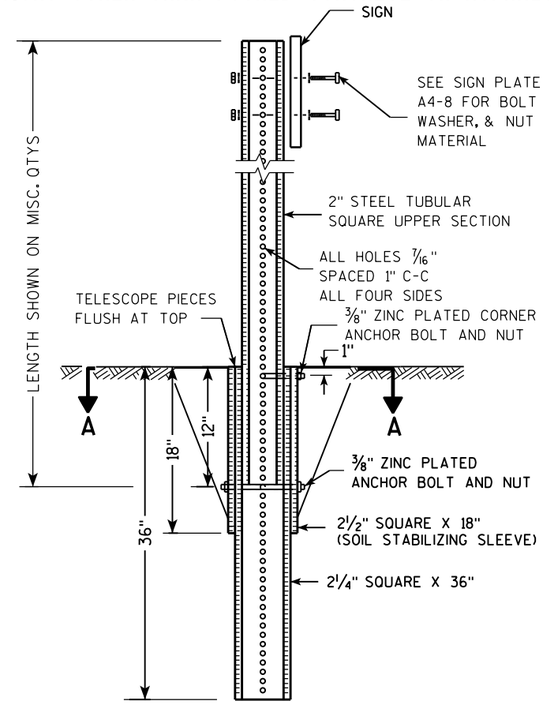
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

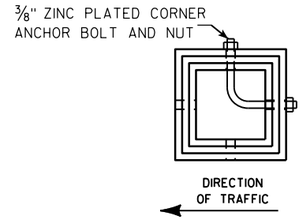


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

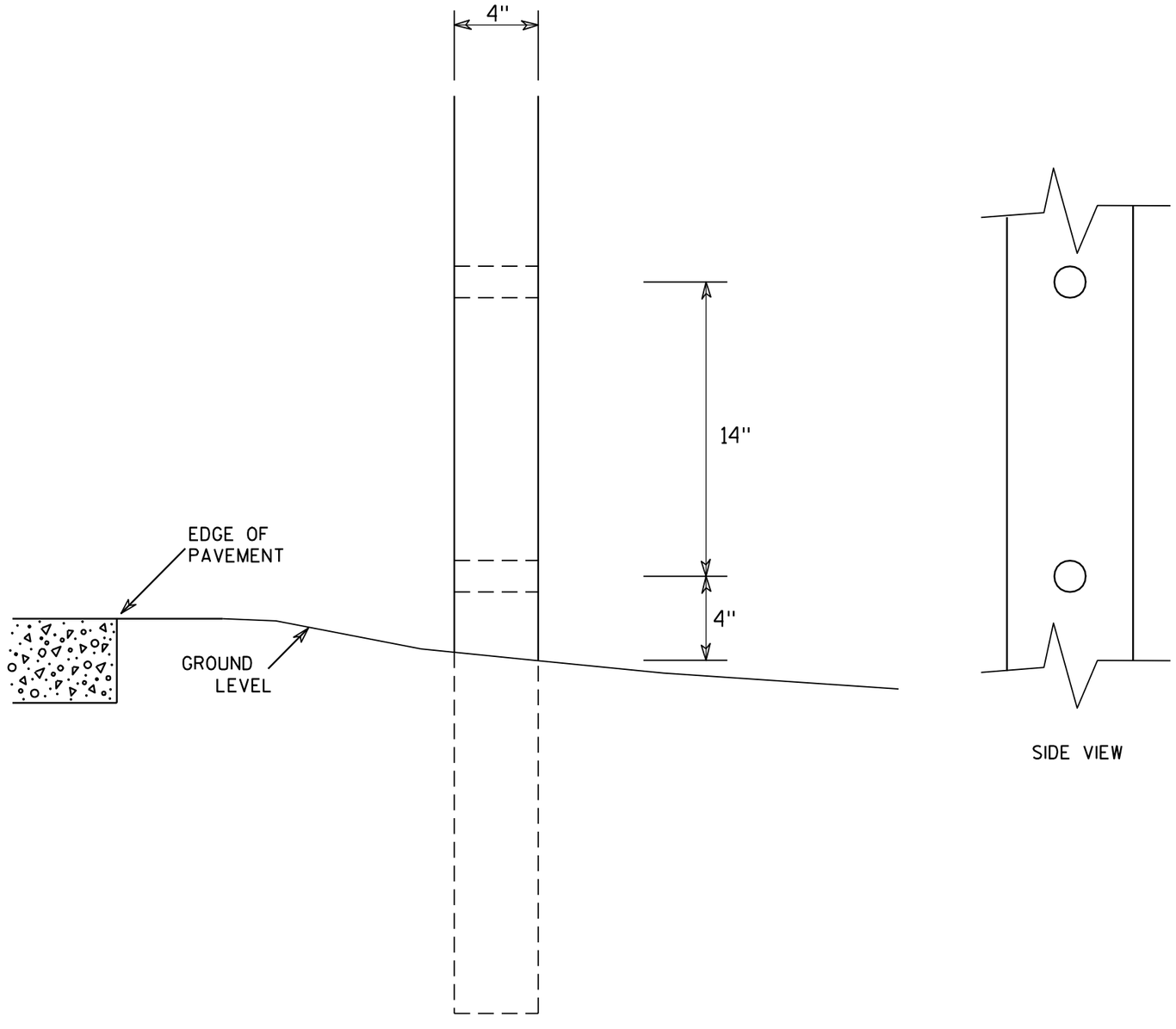
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000
WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

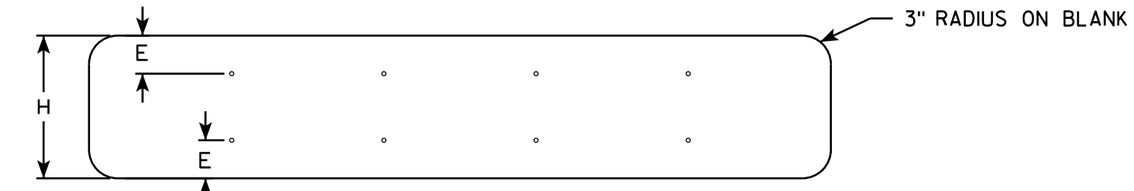
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

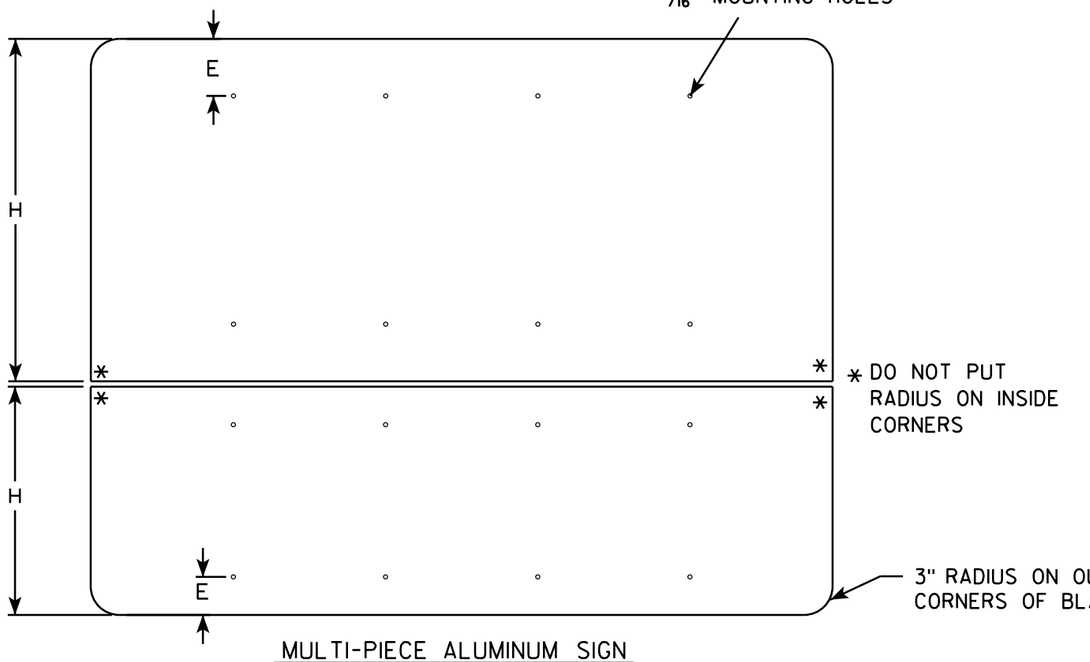
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 182	E



SINGLE PIECE ALUMINUM SIGN

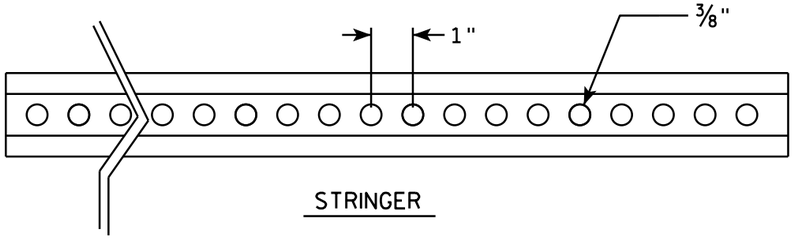


MULTI-PIECE ALUMINUM SIGN

GENERAL NOTES

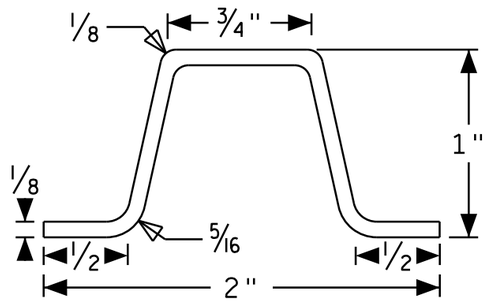
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

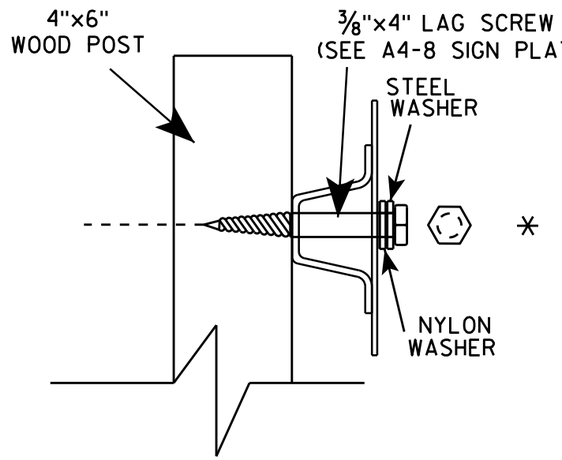


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

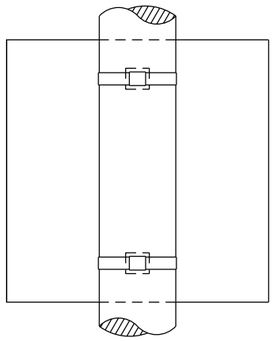
DATE 4/26/16 PLATE NO A4-18.1

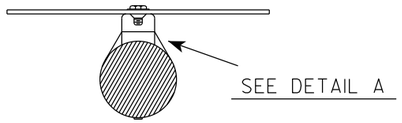
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

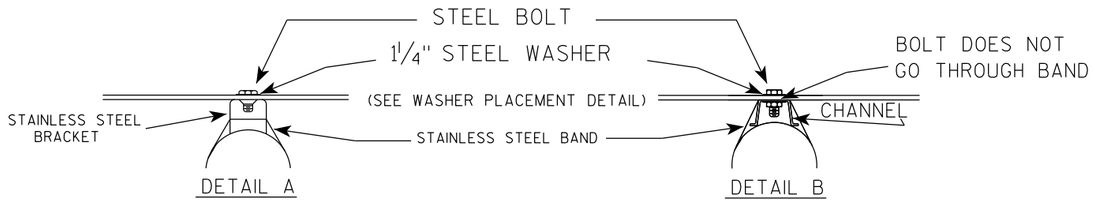
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

SINGLE SIGN



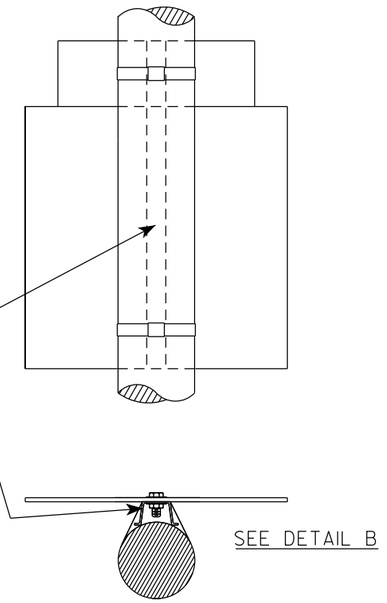




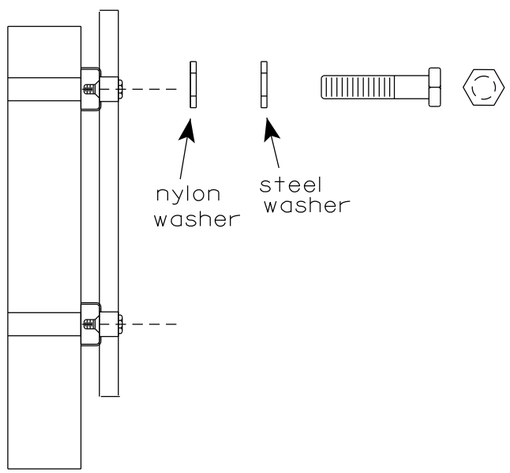
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

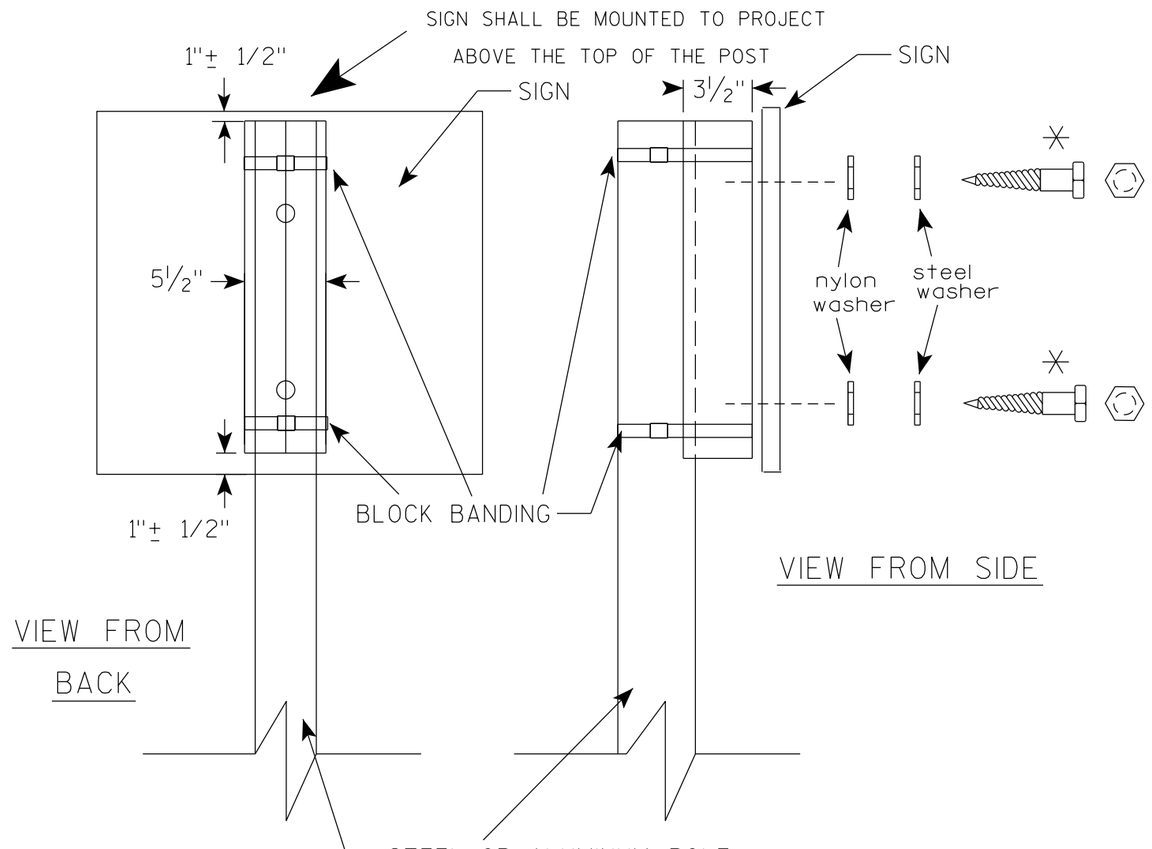
DATE 6/10/19 PLATE NO. A5-9.4

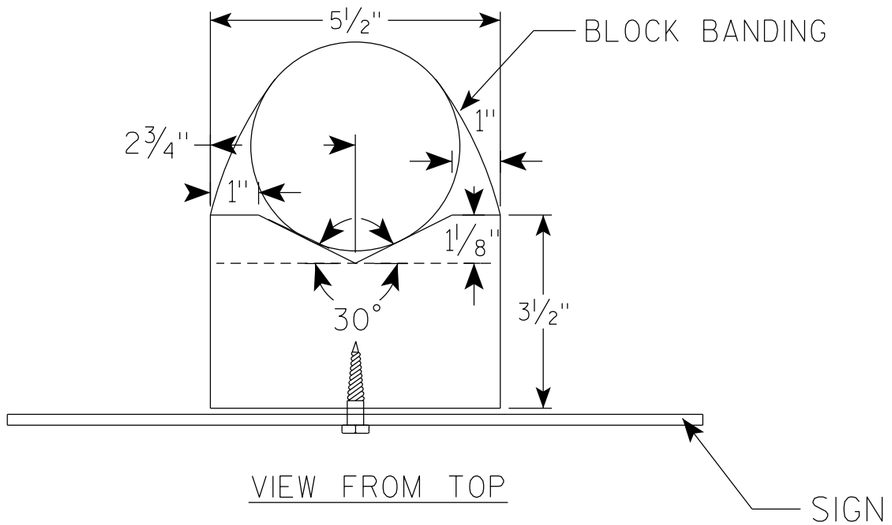
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 184	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

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GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

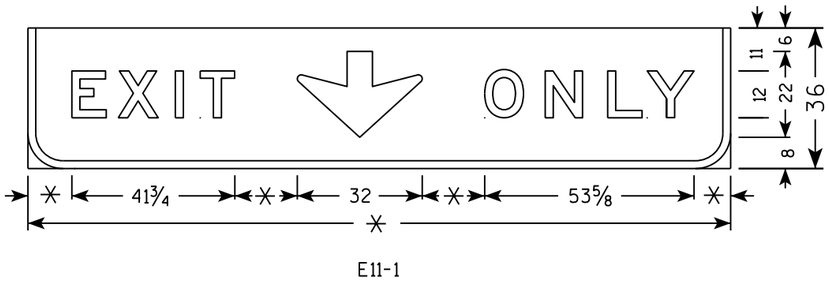
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

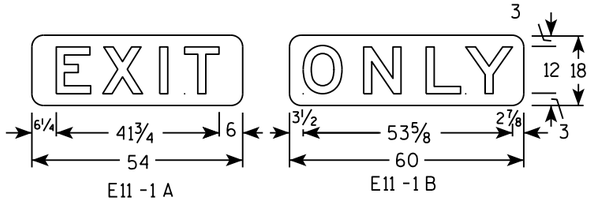
DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 185 E

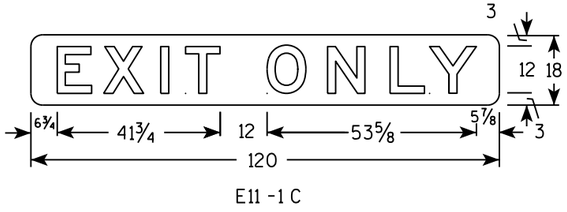


E11-1

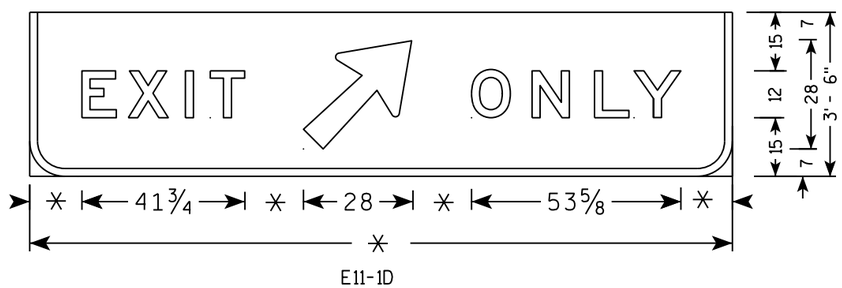


E11 -1 A

E11 -1 B



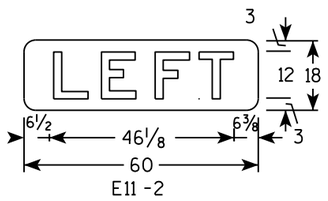
E11 -1 C



E11-1D



E11-1E

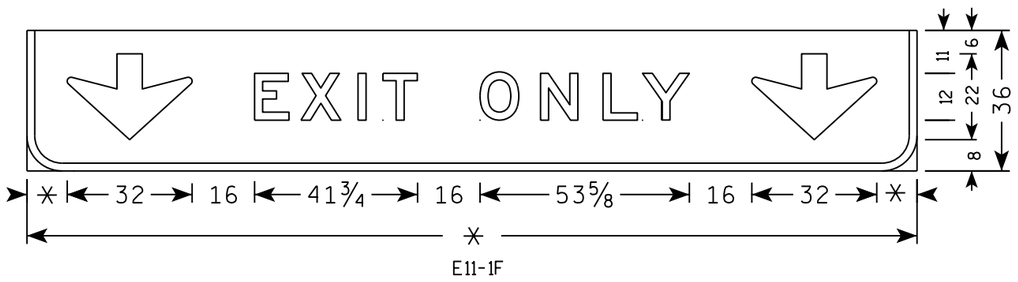


E11 -2

* Variable Dimensions

NOTES

1. Panels are - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E
4. The E11-1, E11-D, E11-1E, and E11-1F base material shall match that of the sign it is used with.
5. The E11-1A. E11-1B, E11-1C, and E11-2 base material shall consist of aluminum plates or sheets, .040 minimum thickness.
6. Payment for these panels are included in the Type I sign of which they are a part.
7. Radius and Border thickness shall match the main Guide Sign Border per standard plate A11-1.



E11-1F

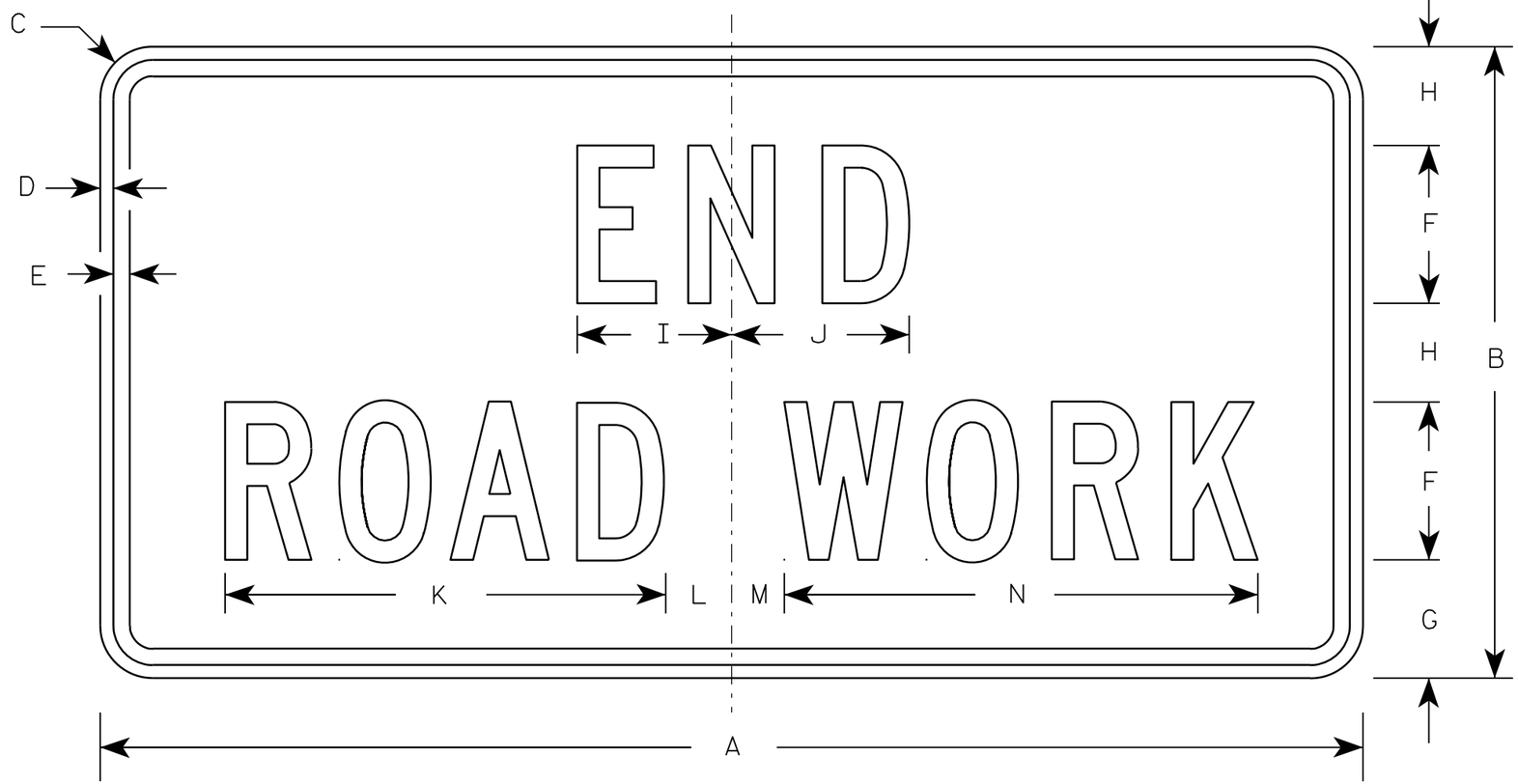
STANDARD PANELS E11-1
FOR LARGE GUIDE SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/17 PLATE NO. E11-1.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 186	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

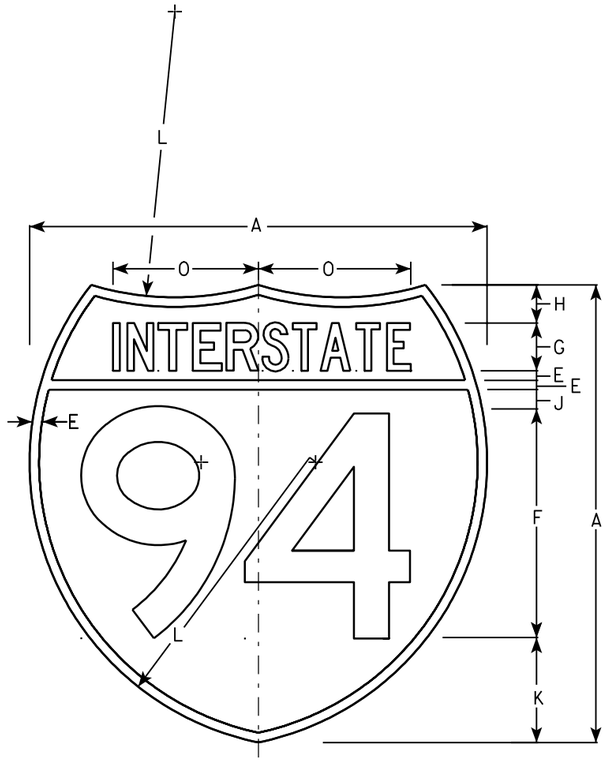
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

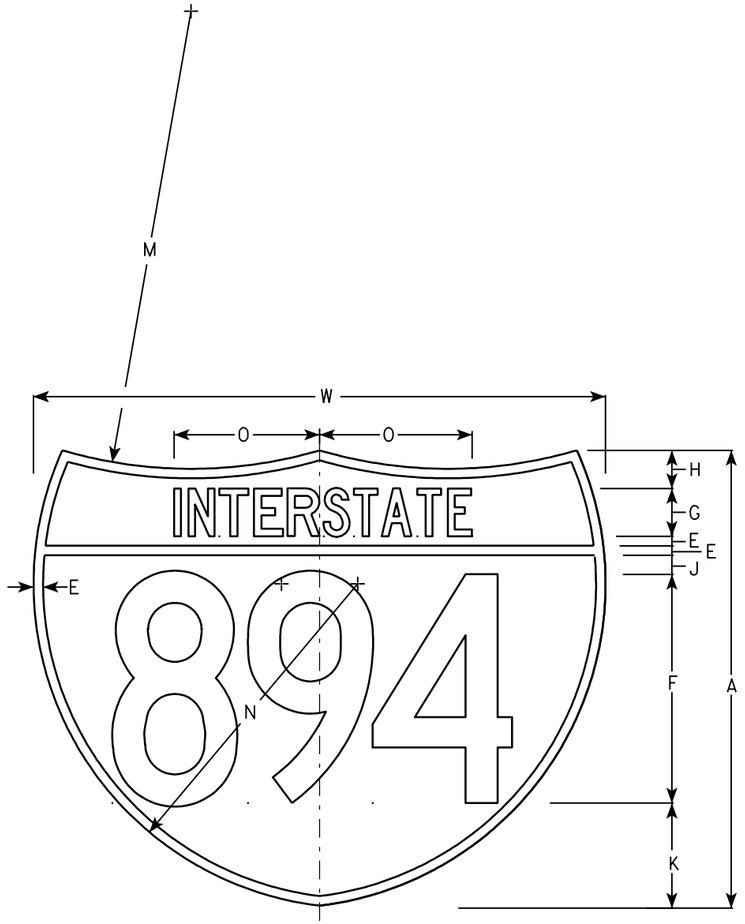
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 187	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

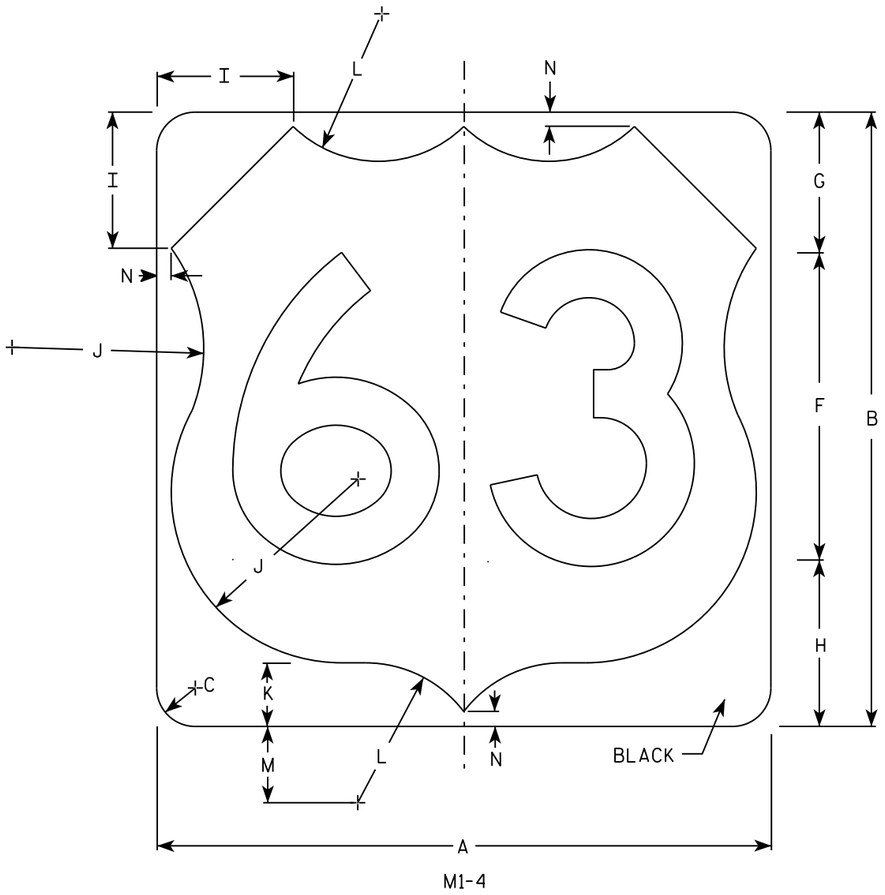
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

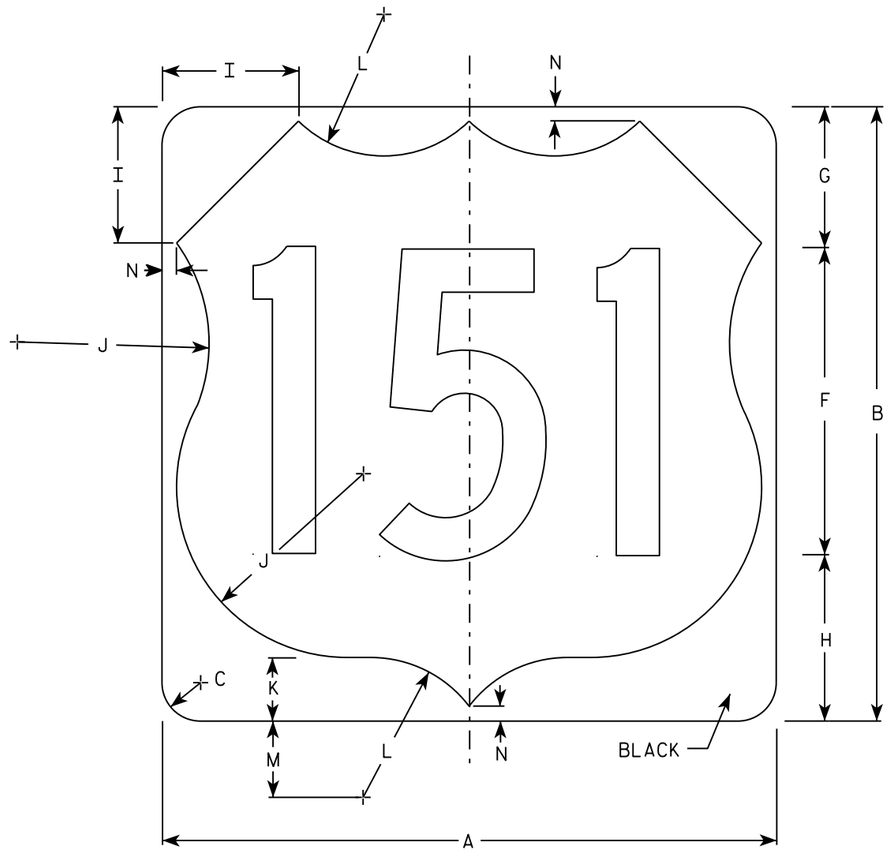
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 188	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M1-4



M1-4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. ft.
1																											
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

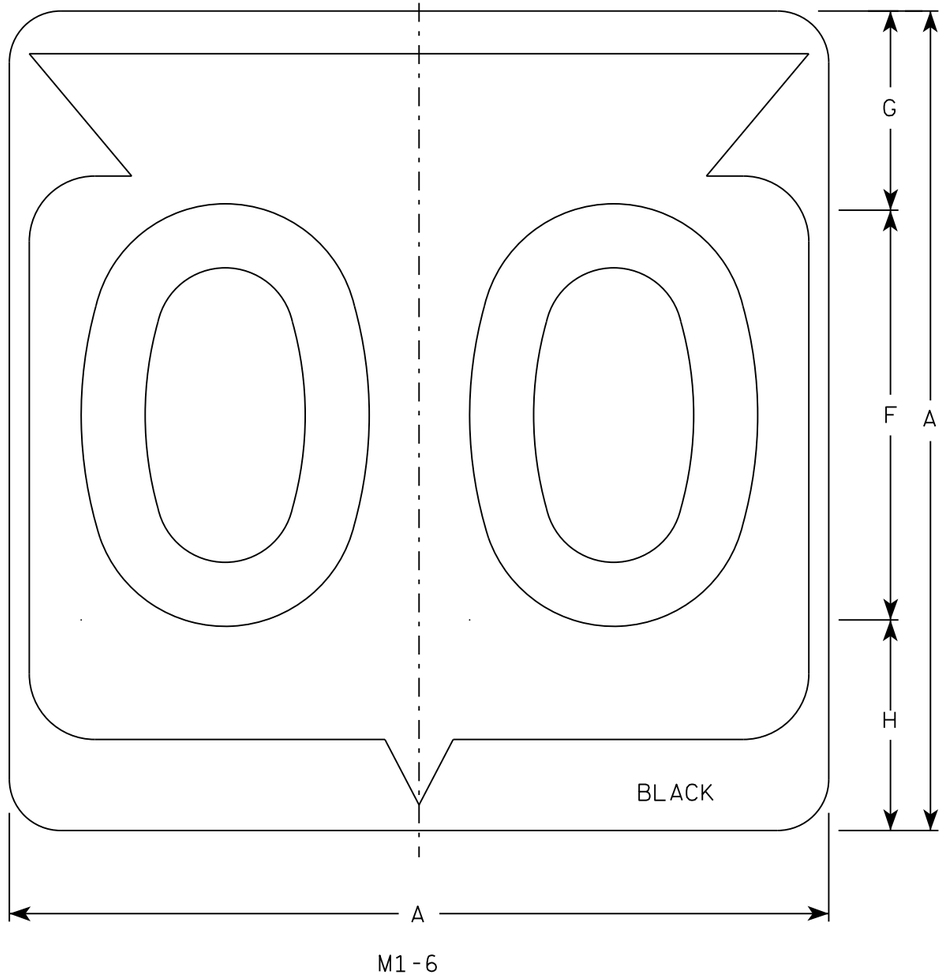
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-4.10

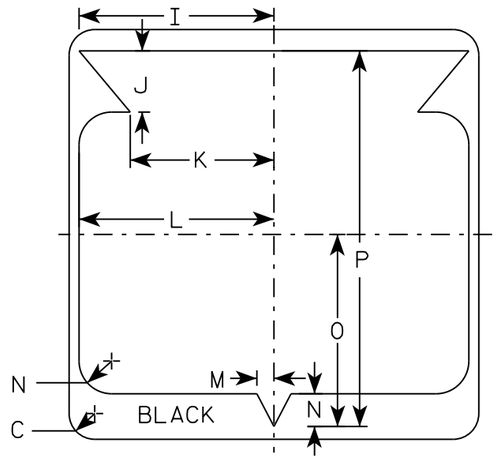
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 189	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

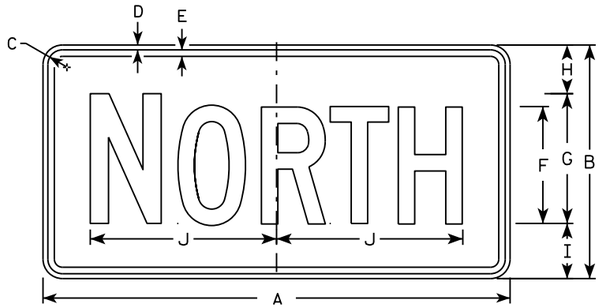
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

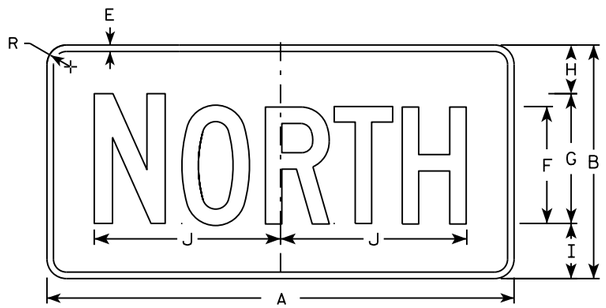
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 190 E



M3-1
MM3-1
MP3-1



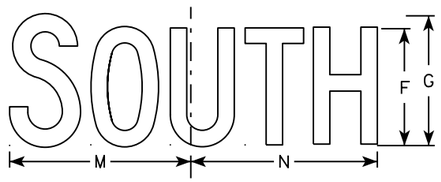
MB3-1
MK3-1
MN3-1



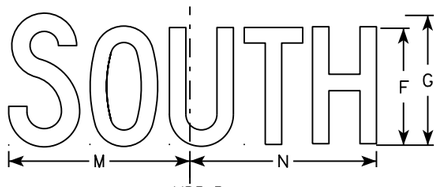
M3-2
MM3-2
MP3-2



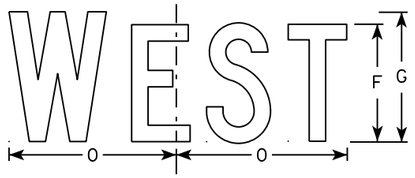
MB3-2
MK3-2
MN3-2



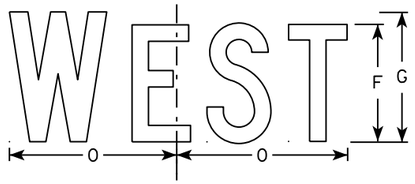
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

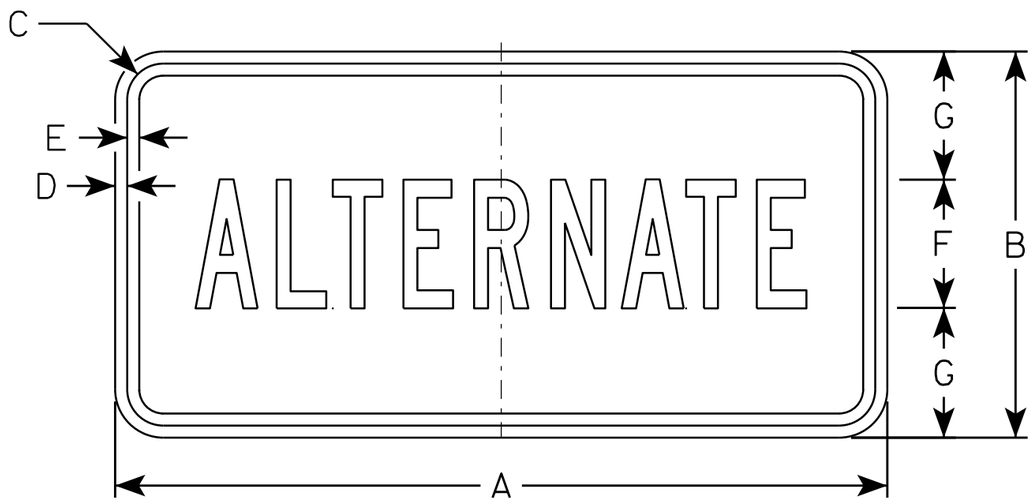
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

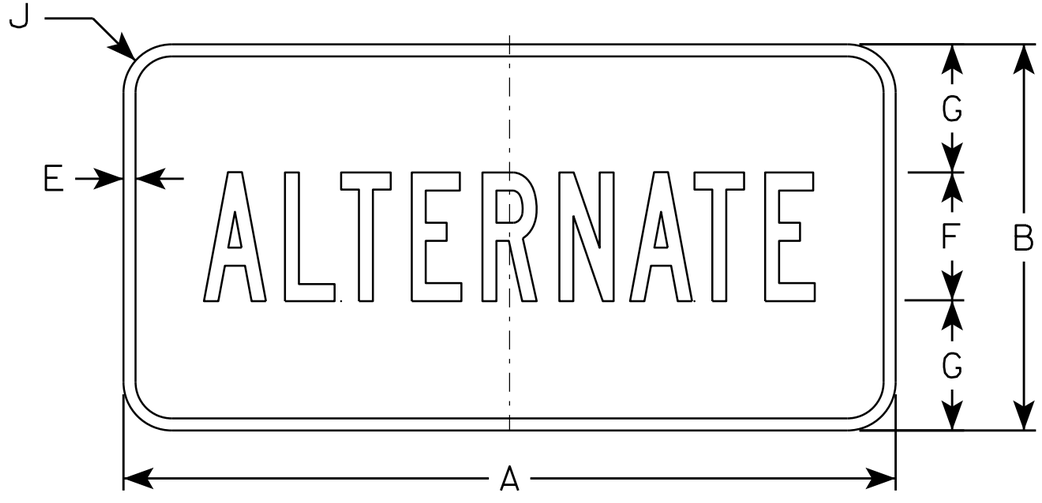
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-1
MO4-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   MO4-1 Background - Orange - Type F
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

STANDARD SIGN
M4-1

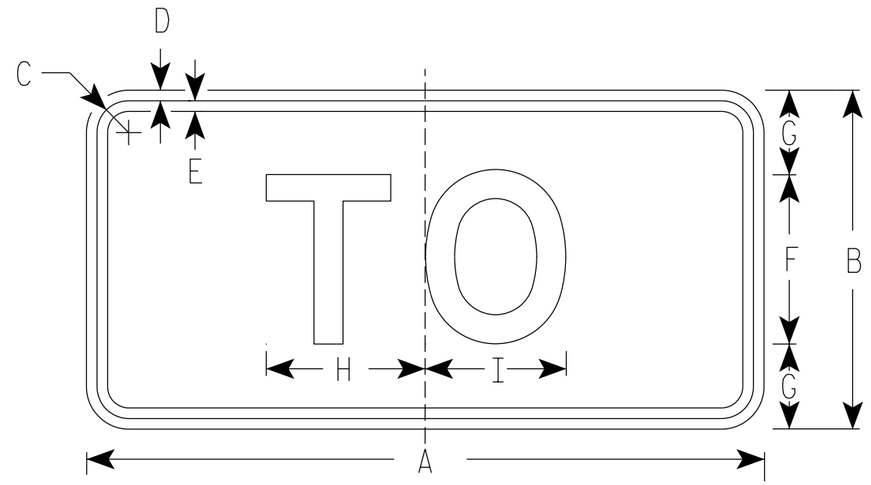
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

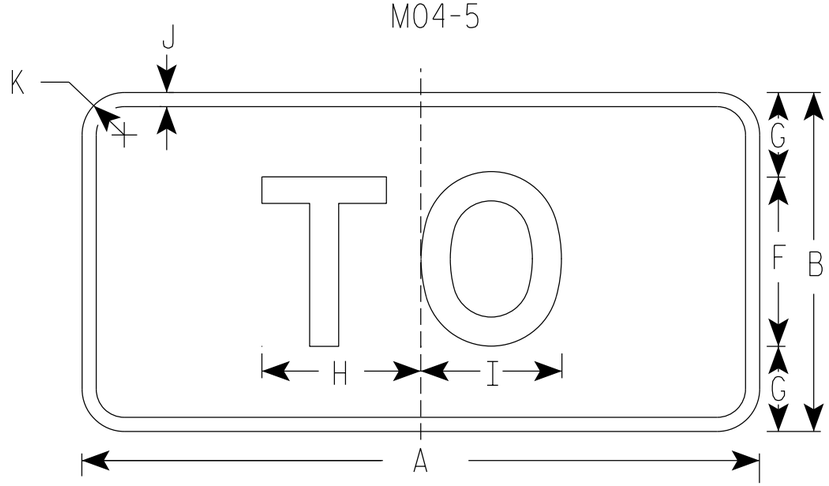
DATE 6/30/14 PLATE 14-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M41.DGN PLOT DATE : 30-JUN-2014 15:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 4.708937:1.000000 WISDOT/CADDS SHEET 42



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

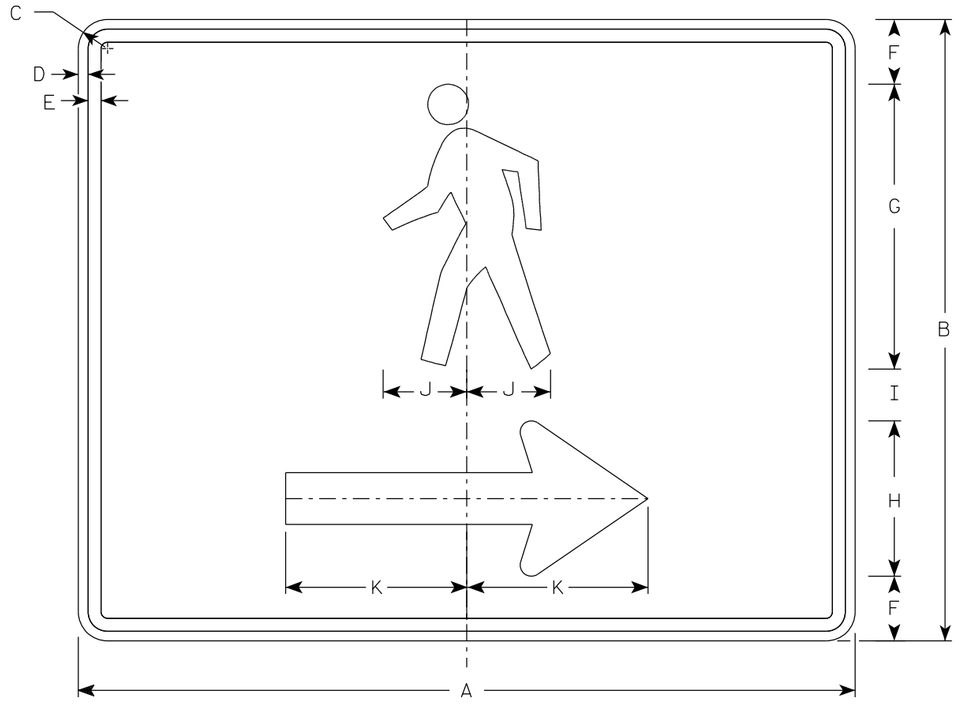
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/7/19 PLATE NO. M4-5.9

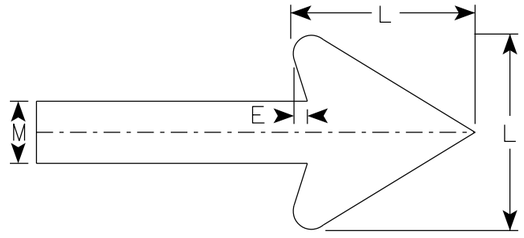
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 193 | E



M4-60R

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-60L is the same as M4-60R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	2 1/2	11	6	2	3 1/4	7	6	2														5.00
3																											
4																											
5																											

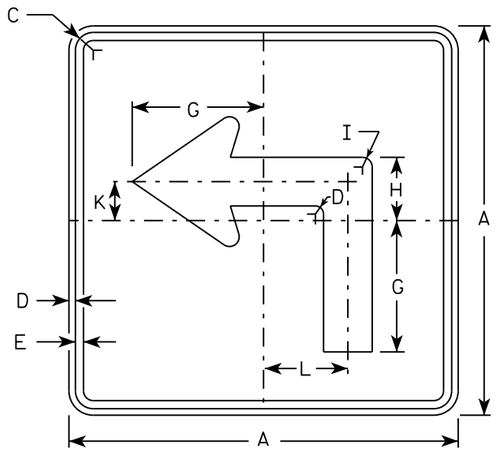
STANDARD SIGN
M4-60 L&R

WISCONSIN DEPT OF TRANSPORTATION

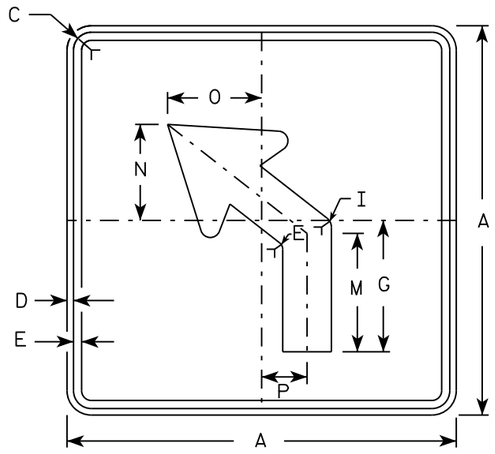
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/16/2021 PLATE NO. M4-60.1

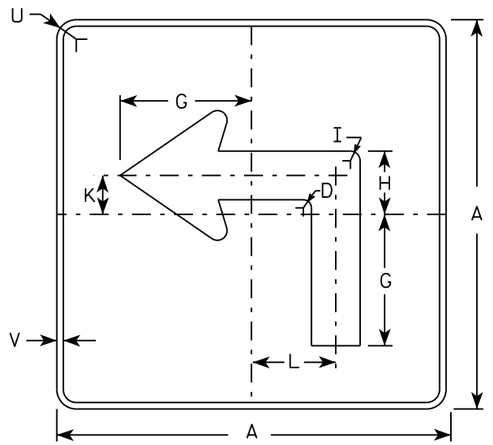
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 194 | E



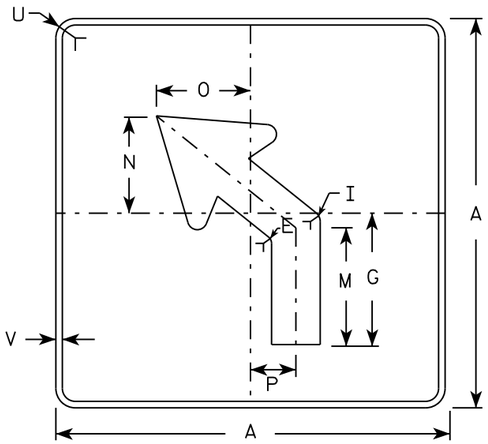
M5-1L
MM5-1L
MO5-1L
MP5-1L



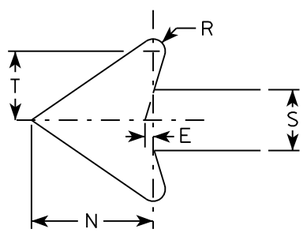
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

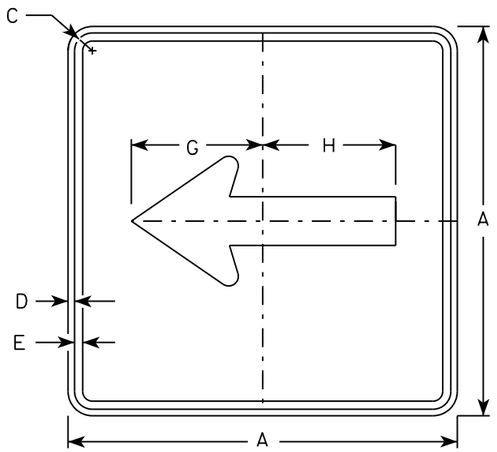
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

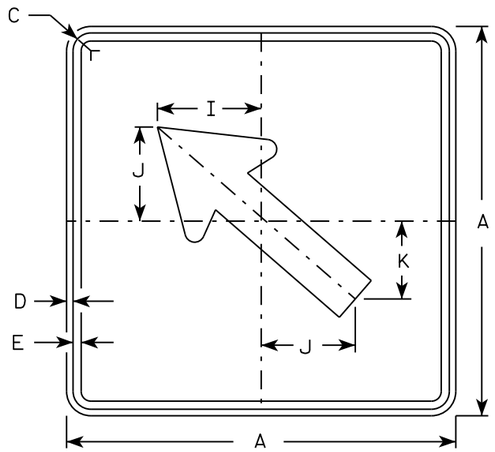
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



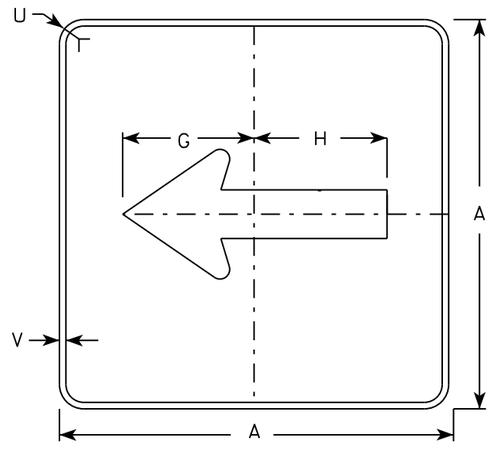
M6-1
MM6-1
MO6-1
MP6-1



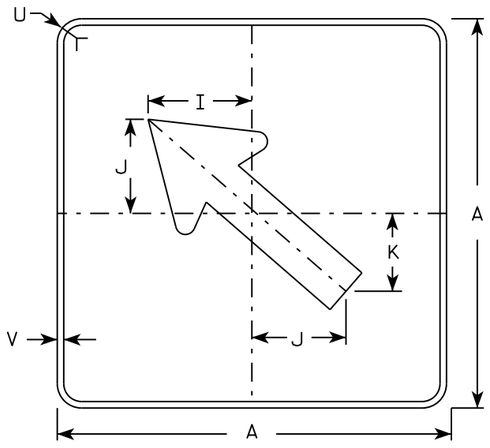
M6-2
MM6-2
MO6-2
MP6-2

NOTES

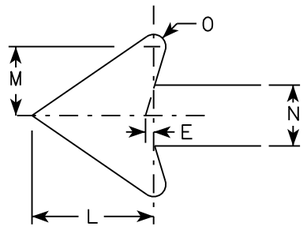
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

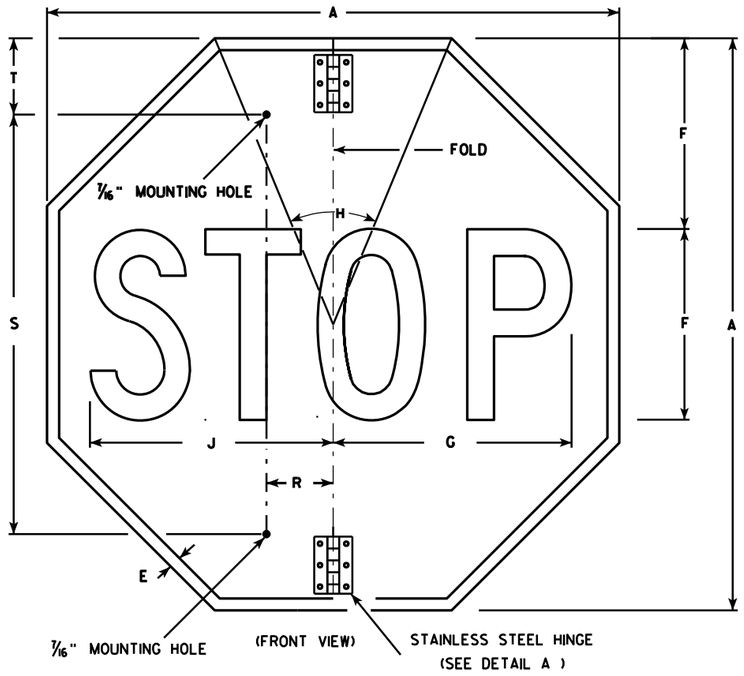
WISCONSIN DEPT OF TRANSPORTATION

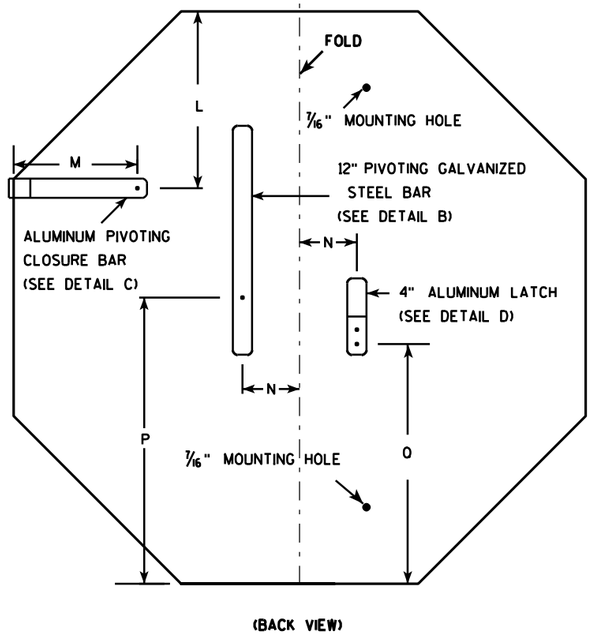
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 196 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

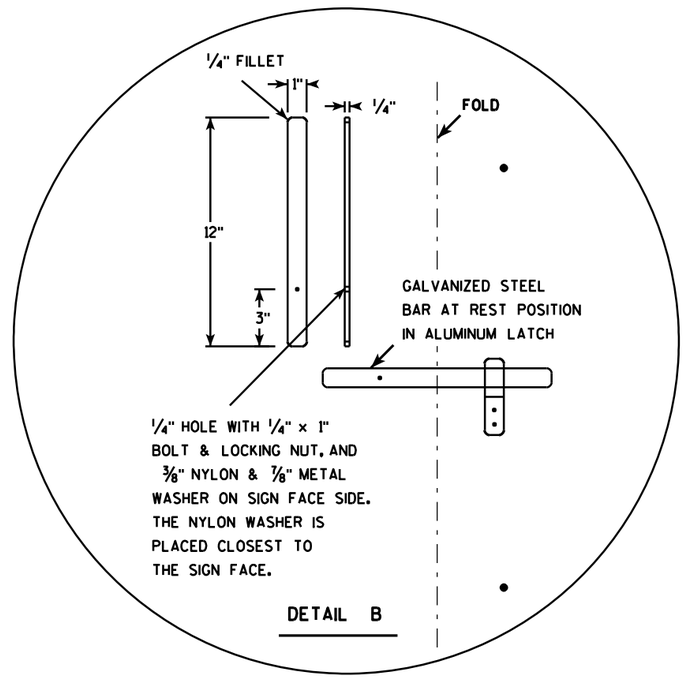
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



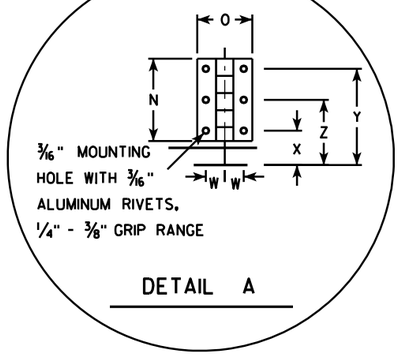


NOTES

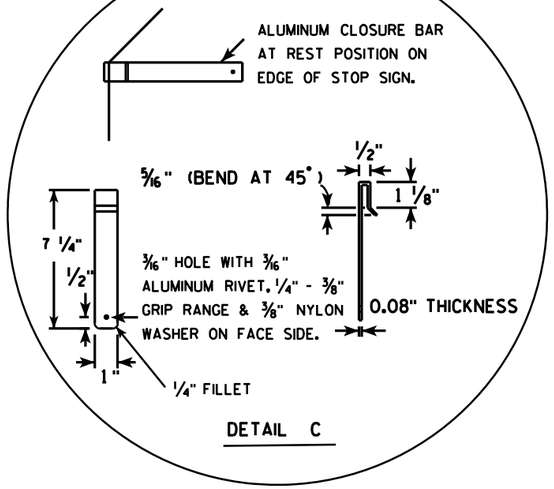
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



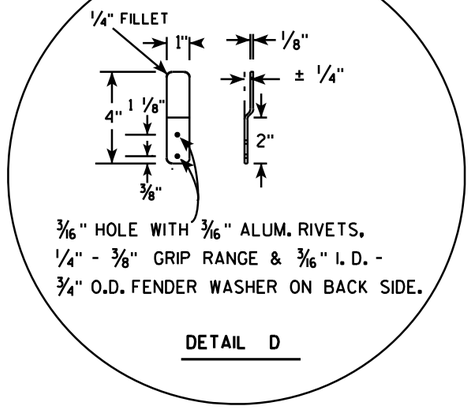
DETAIL B



DETAIL A



DETAIL C



DETAIL D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

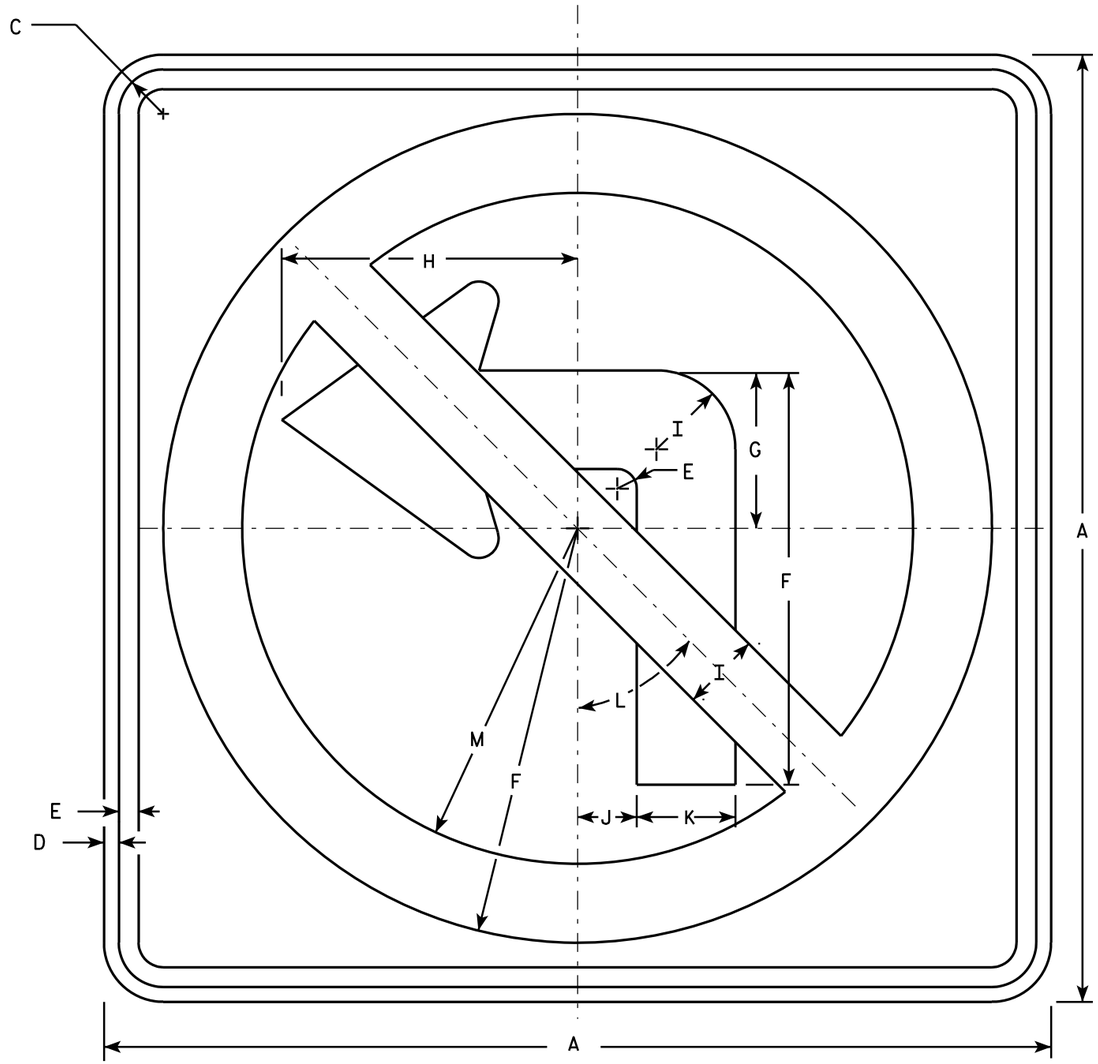
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 197 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R11F.DGN PLOT DATE : 02-DEC-2010 15:26 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42

7

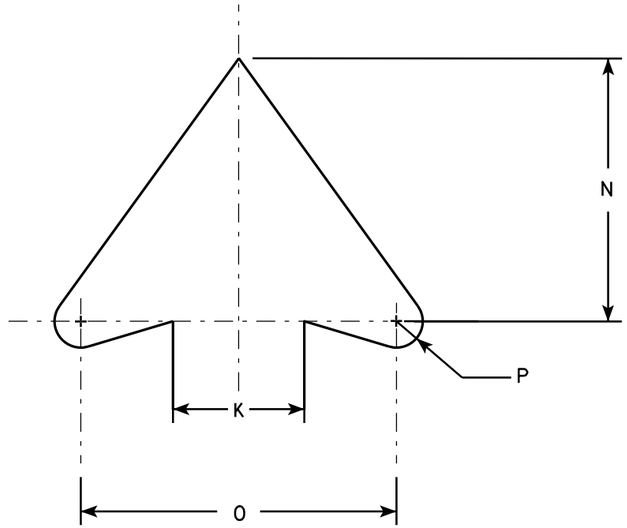
7



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

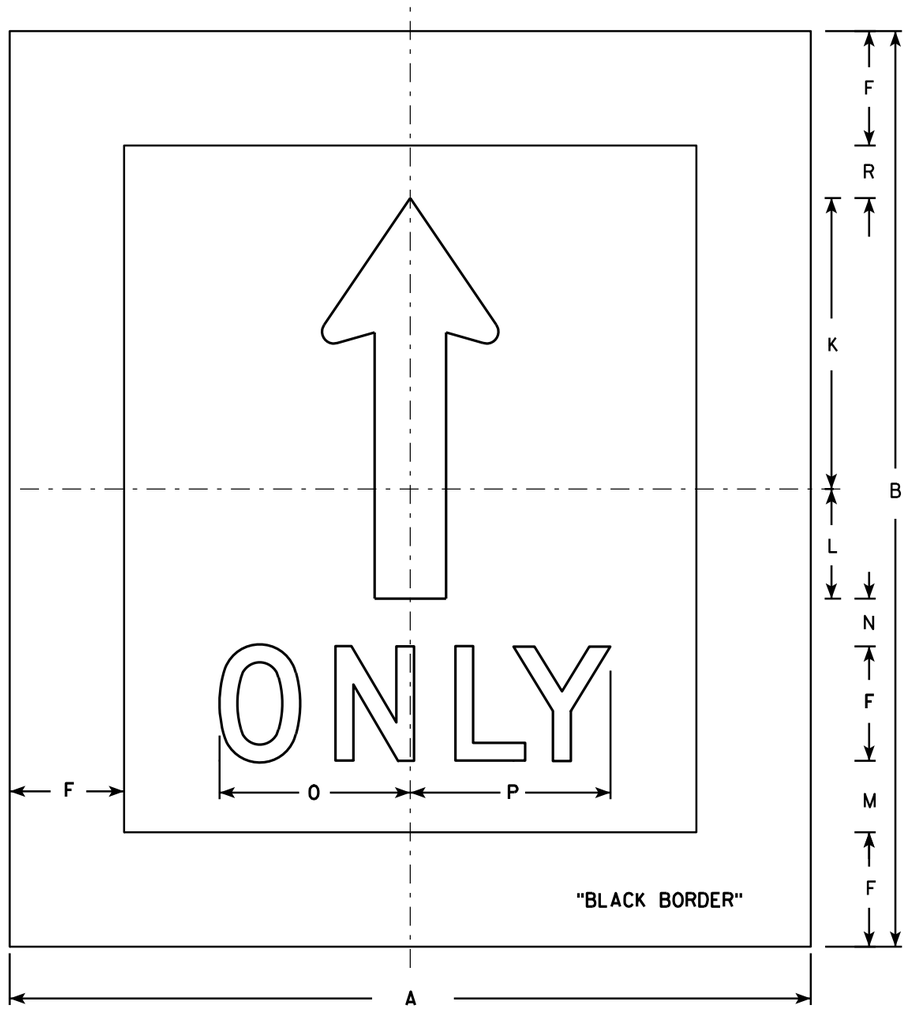
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

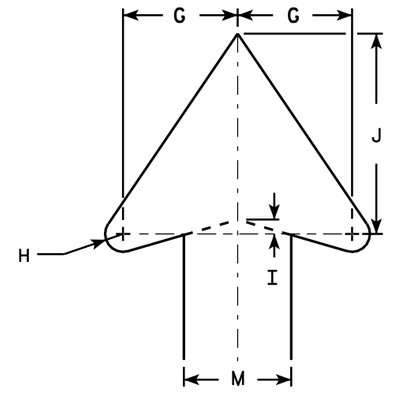
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 198	E



R3-5A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	4	5/8	1/2	7	15 1/4	5 3/4	3 3/4	2 1/2	10	10 1/2		2 3/4									1.26
2M	42	48				6	4	5/8	1/2	7	15 1/4	5 3/4	3 3/4	2 1/2	10	10 1/2		2 3/4									1.26
3																											
4																											
5																											

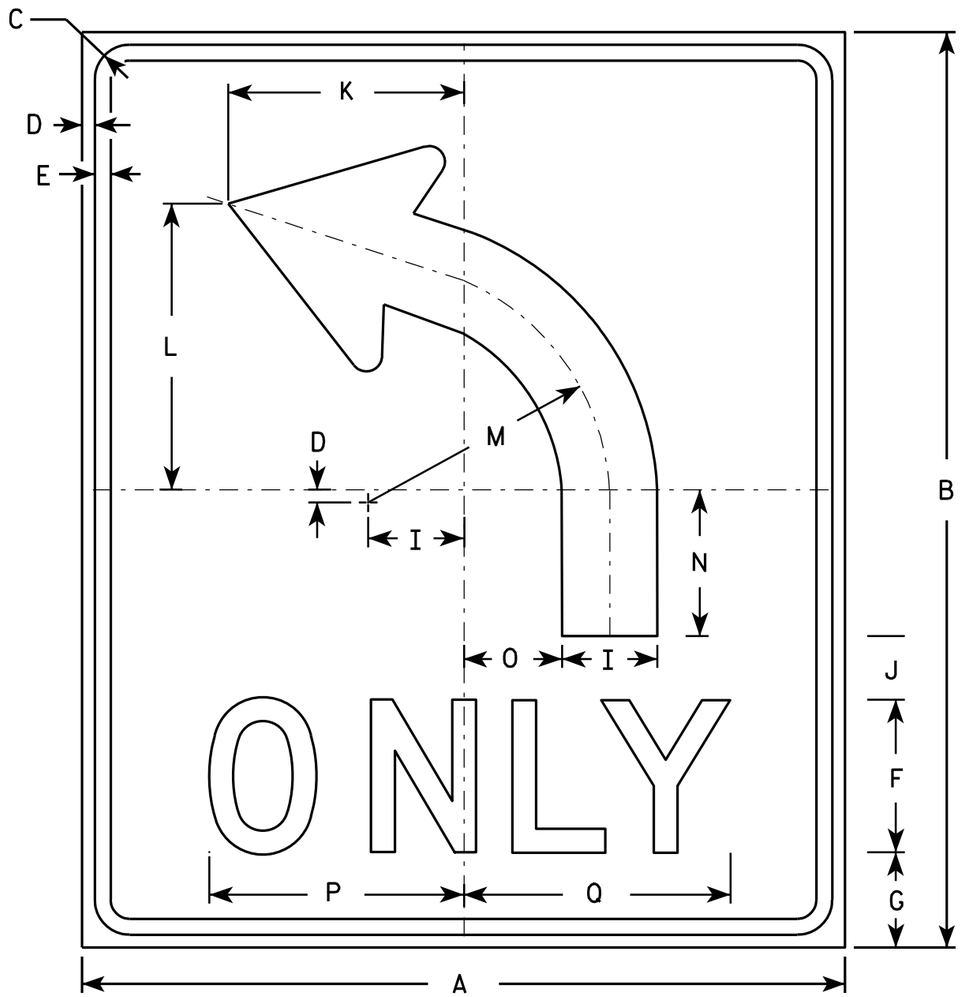
STANDARD SIGN
R3-5A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5A.5

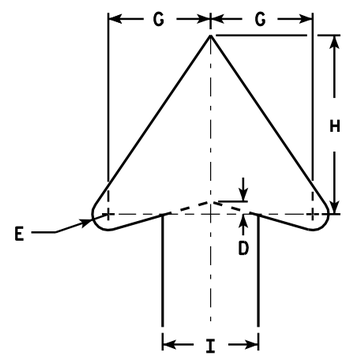
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 199	E



R3-50L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R3-50R is the same as R3-50L except curved portion of arrow points right.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
2M	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
3																											
4																											
5																											

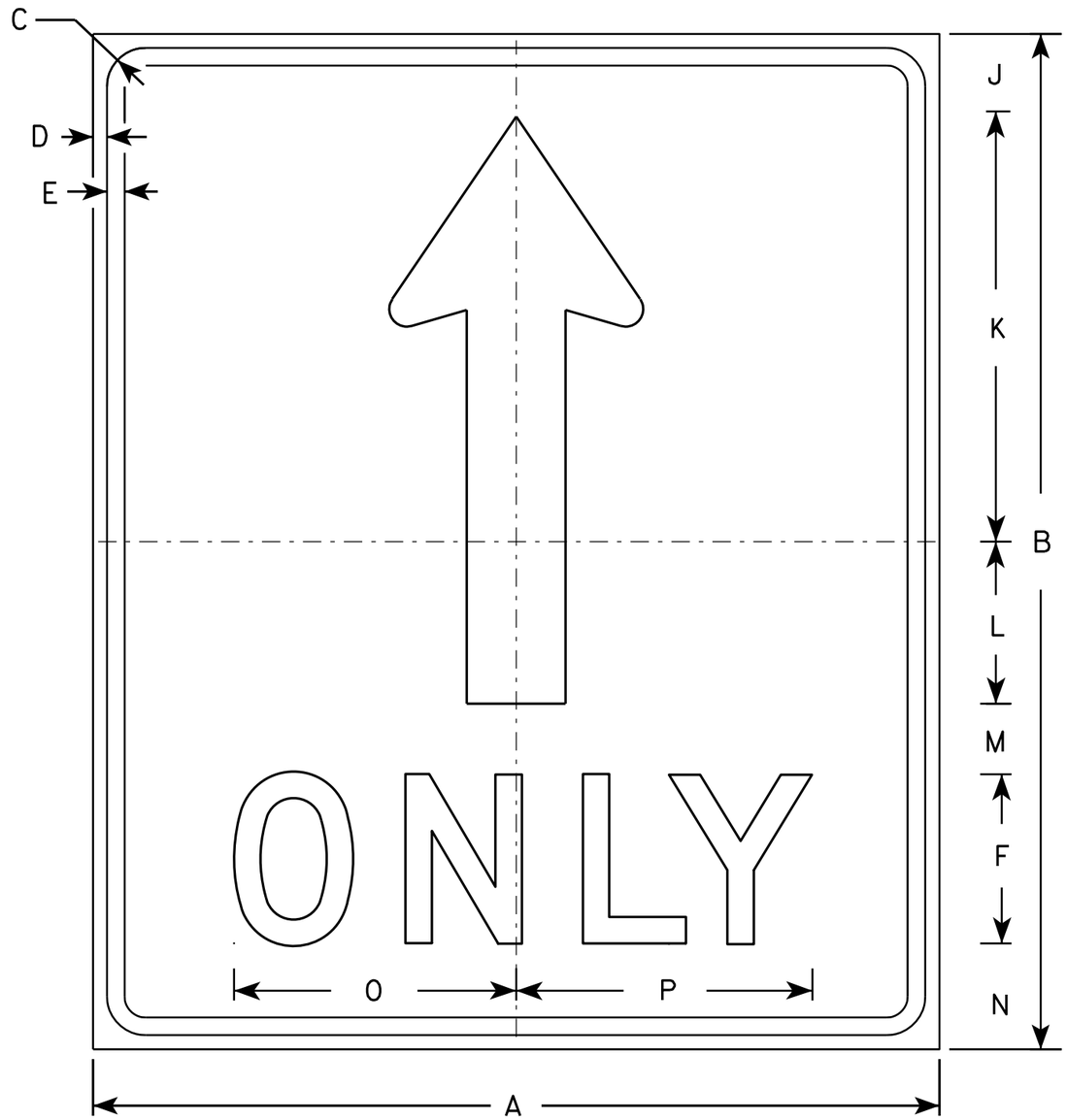
STANDARD SIGN
R3-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-50.2

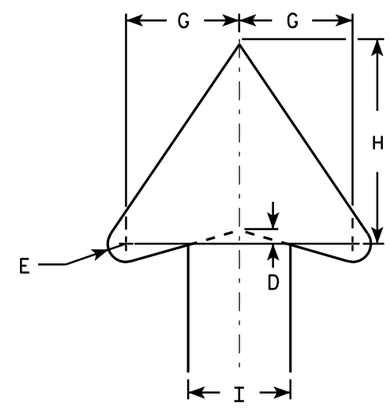
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 200 | E



R3-50A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	6	4	7	3 1/2	2 3/4	15 1/4	5 3/4	2 1/2	3 3/4	10	10 1/2											7.5
2M	30	36	1 3/8	1/2	5/8	6	4	7	3 1/2	2 3/4	15 1/4	5 3/4	2 1/2	3 3/4	10	10 1/2											7.5
3																											
4																											
5																											

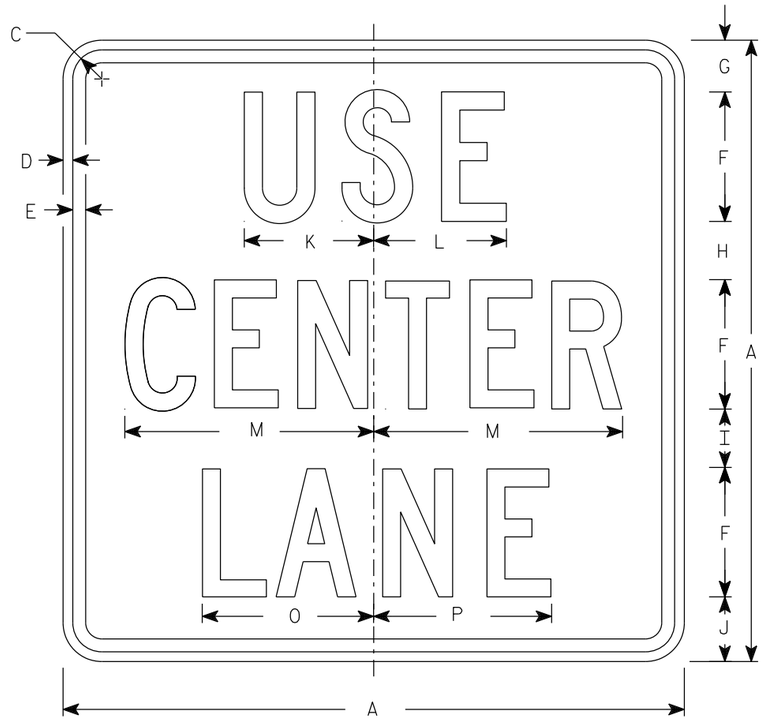
STANDARD SIGN
R3-50A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-50A.3

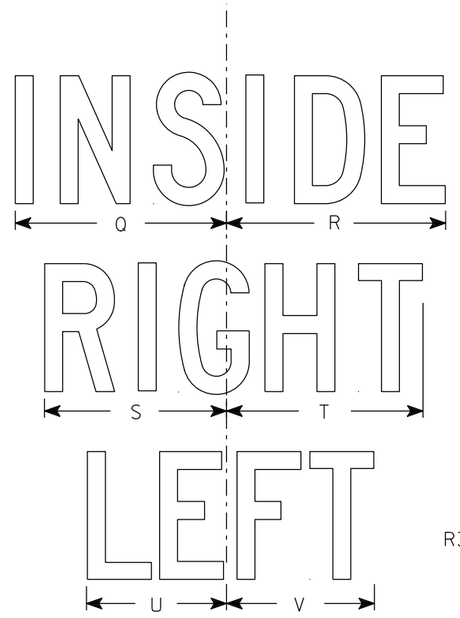
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 201	E



R3-54C

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-54I

R3-54R

R3-54L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	9 5/8		6 5/8	6 7/8	8 1/8	8 1/2	7	7 5/8	5 3/8	5 3/4					4.0
2M	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	9 5/8		6 5/8	6 7/8	8 1/8	8 1/2	7	7 5/8	5 3/8	5 3/4					4.0
3	36		1 5/8	5/8	3/4	7	4	3 1/2	3 1/2	4 1/2	7 1/2	7 3/4	14 3/8		9 7/8	10 1/4	12 1/8	12 3/4	10 3/8	11 3/8	8	8 5/8					9.0
4																											
5																											

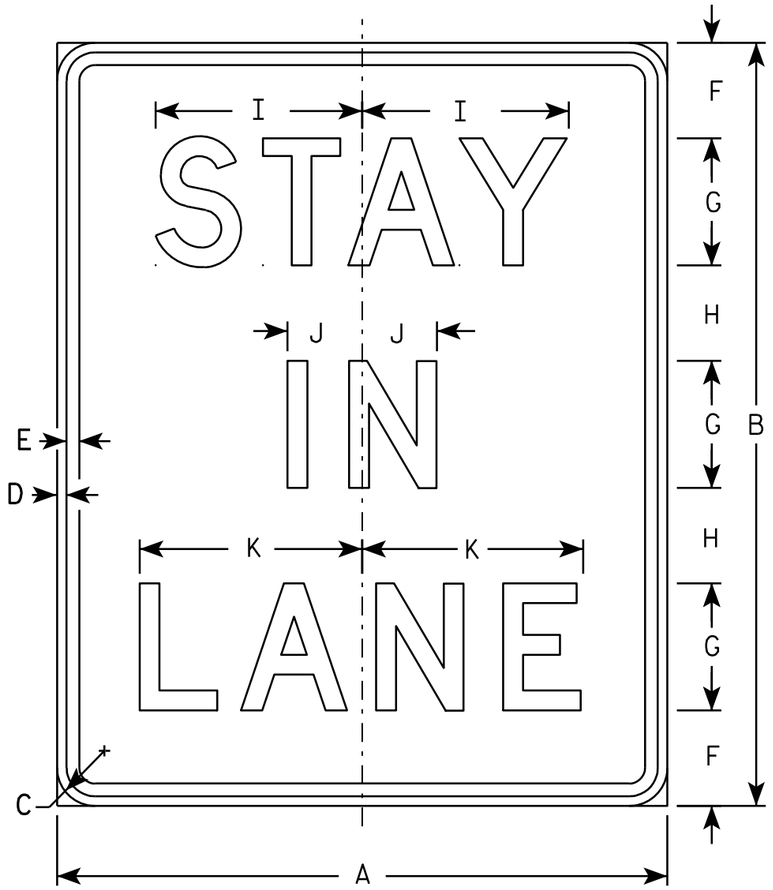
STANDARD SIGN
R3-54C, I ,L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/21 PLATE NO. R3-54.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 202 | E



R4-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	3/8	3	4	3	6 1/2	2 3/8	7																3.0
2S	24	30	1 1/8	3/8	1/2	3 5/8	5	3 7/8	8 1/8	3	8 3/4																5.0
2M	24	30	1 1/8	3/8	1/2	3 5/8	5	3 7/8	8 1/8	3	8 3/4																5.0
3	36	48	1 3/8	1/2	5/8	8 1/4	7	5 1/4	11 3/8	4 1/8	12 1/4																12.0
4	36	48	1 3/8	1/2	5/8	8 1/4	7	5 1/4	11 3/8	4 1/8	12 1/4																12.0
5	48	60	2 1/4	3/4	1	7 1/2	10	7 1/2	16 1/4	5 7/8	17 1/2																20.0

STANDARD SIGN
R4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-9.2

PROJECT NO:

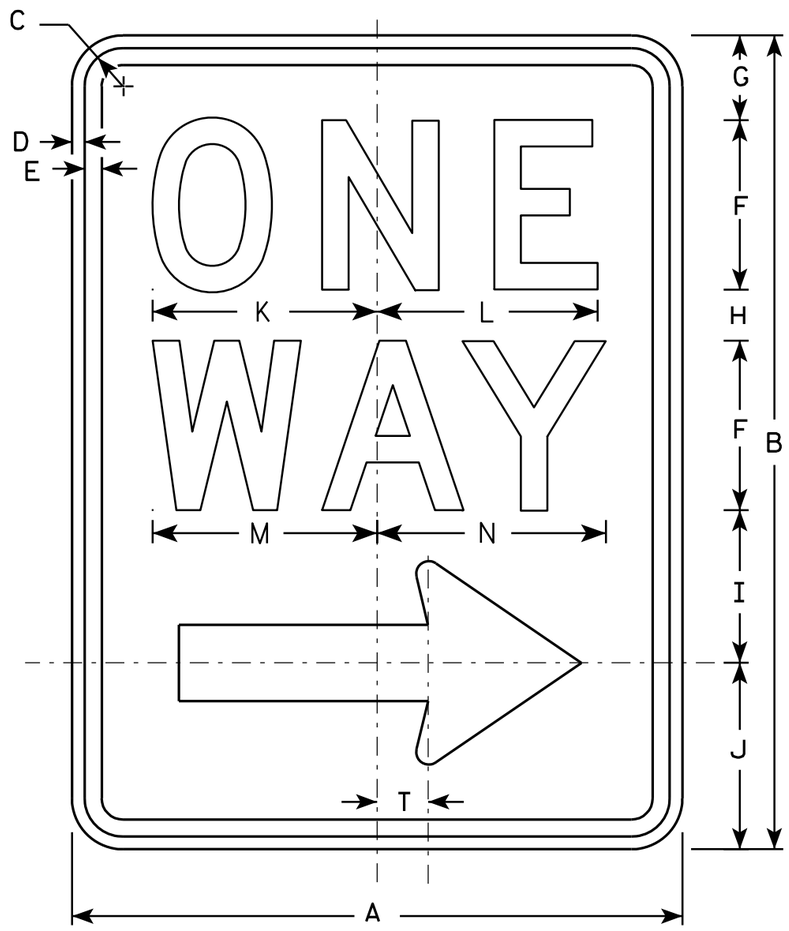
SHEET NO: 203 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R49.DGN PLOT DATE : 25-MAR-2011 14:17 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

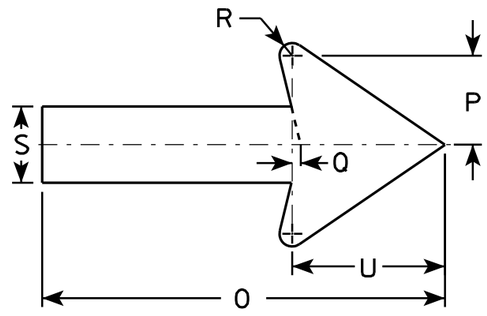
7



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

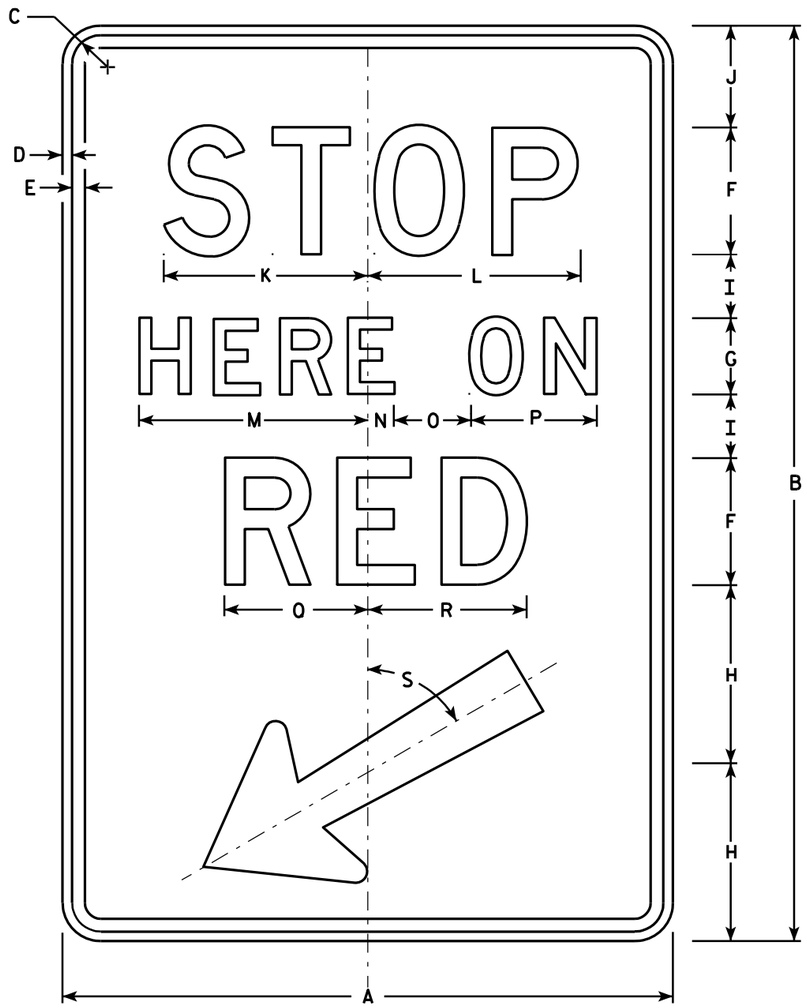
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

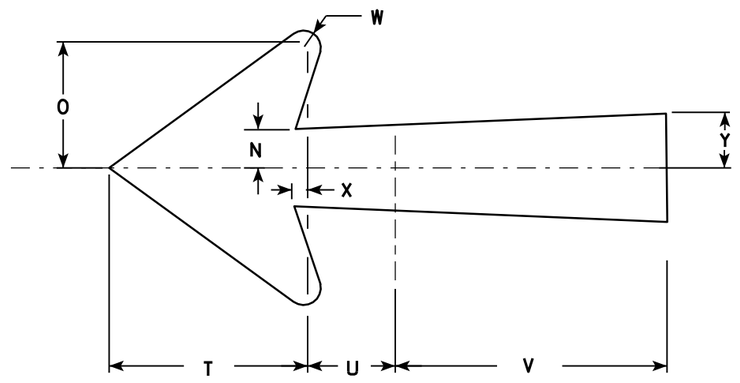
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 204	E



R10-6

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

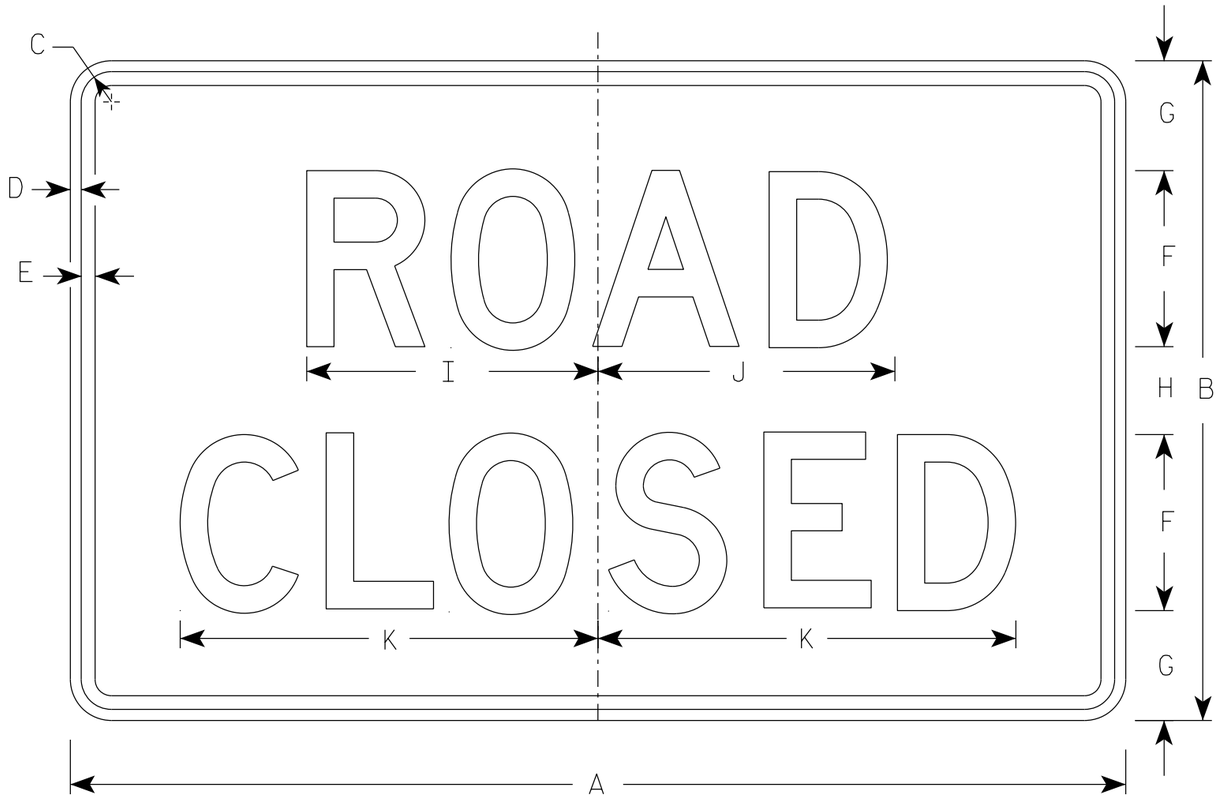
STANDARD SIGN
R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-6.6

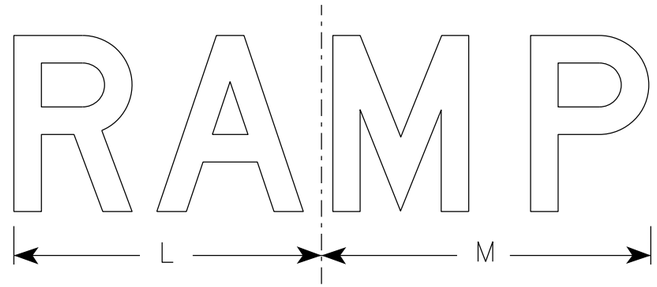
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 205	E



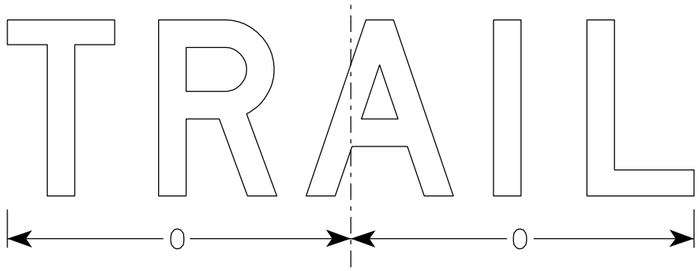
R11-2

NOTES

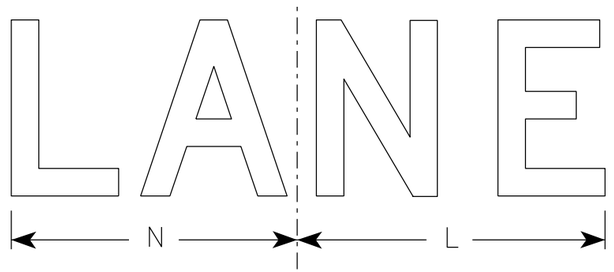
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

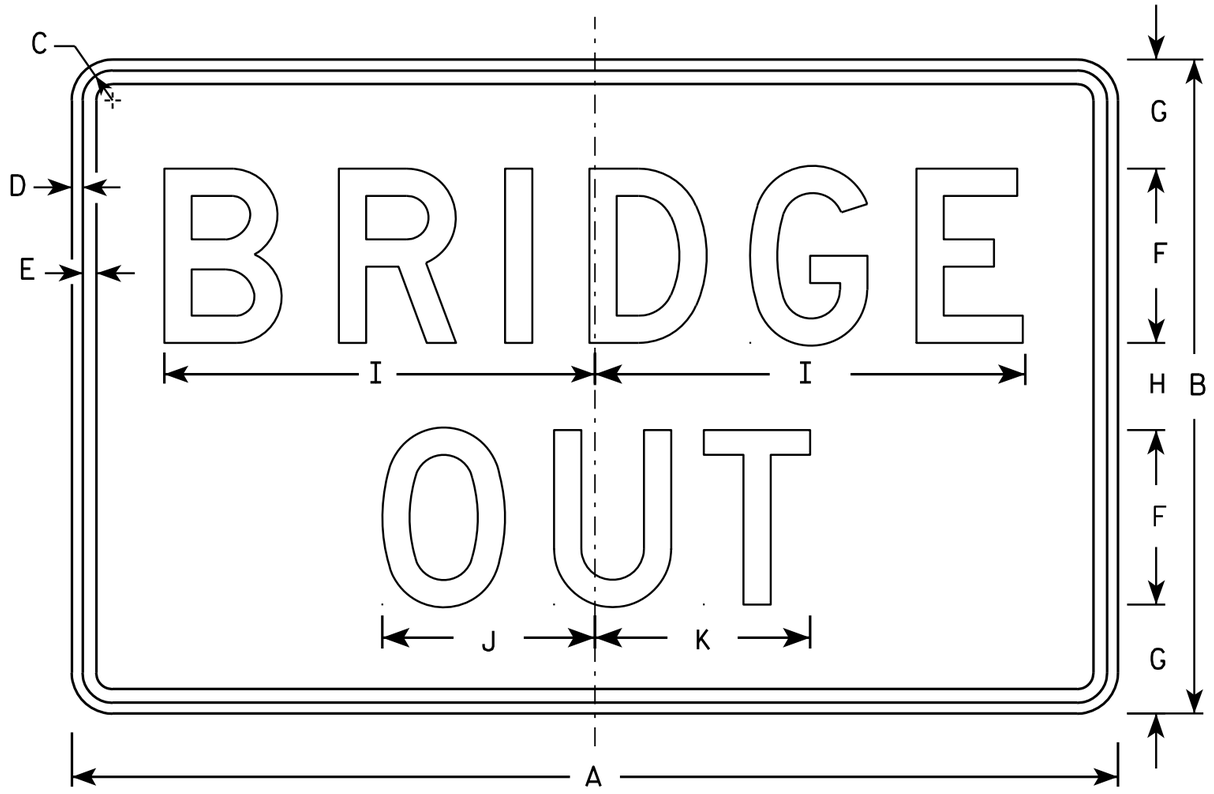
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn PLOT DATE : 29-MAR 2021 8:15 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7



R11-2B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0

STANDARD SIGN
R11-2B

WISCONSIN DEPT OF TRANSPORTATION

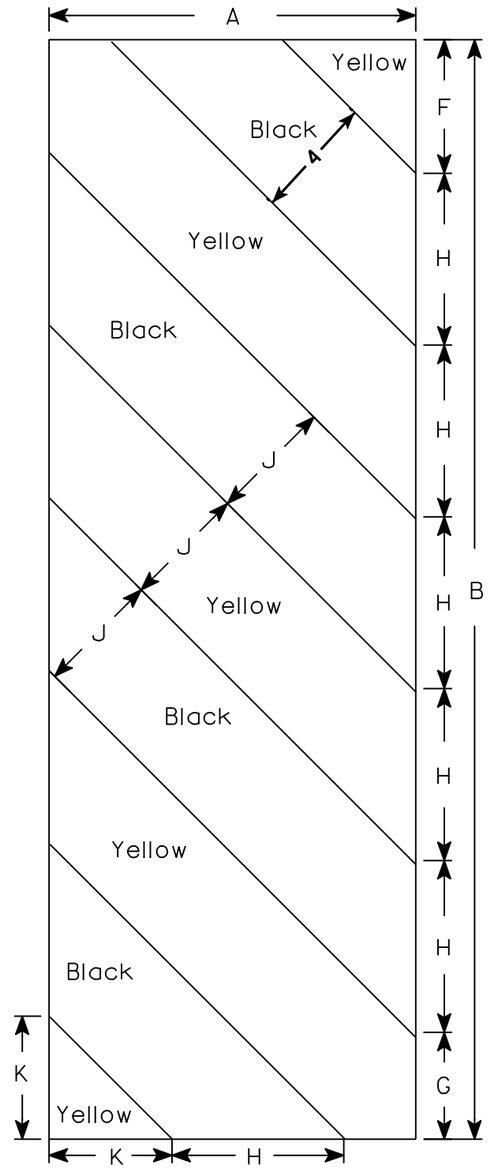
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2B.2

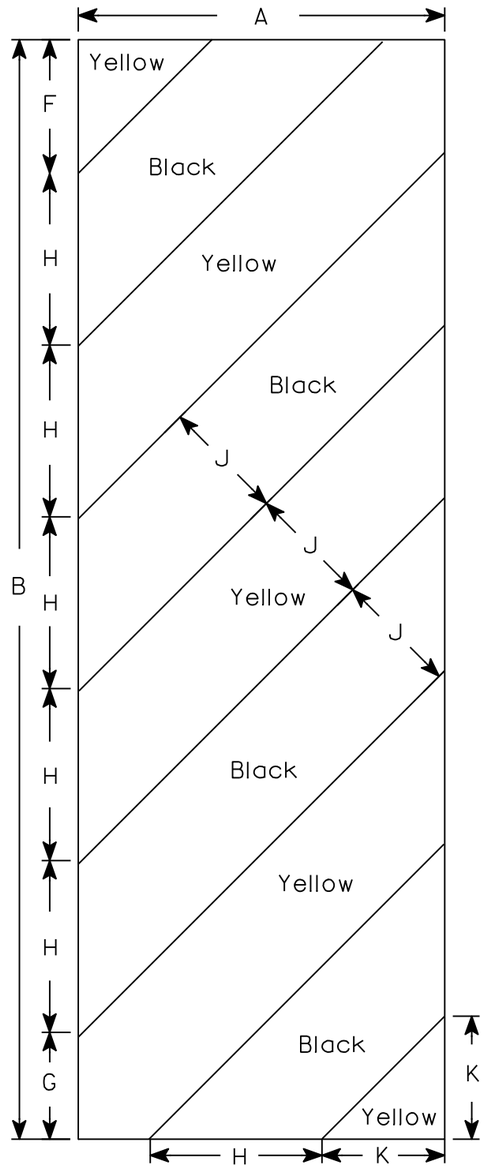
PROJECT NO:

SHEET NO: 207 E

7



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

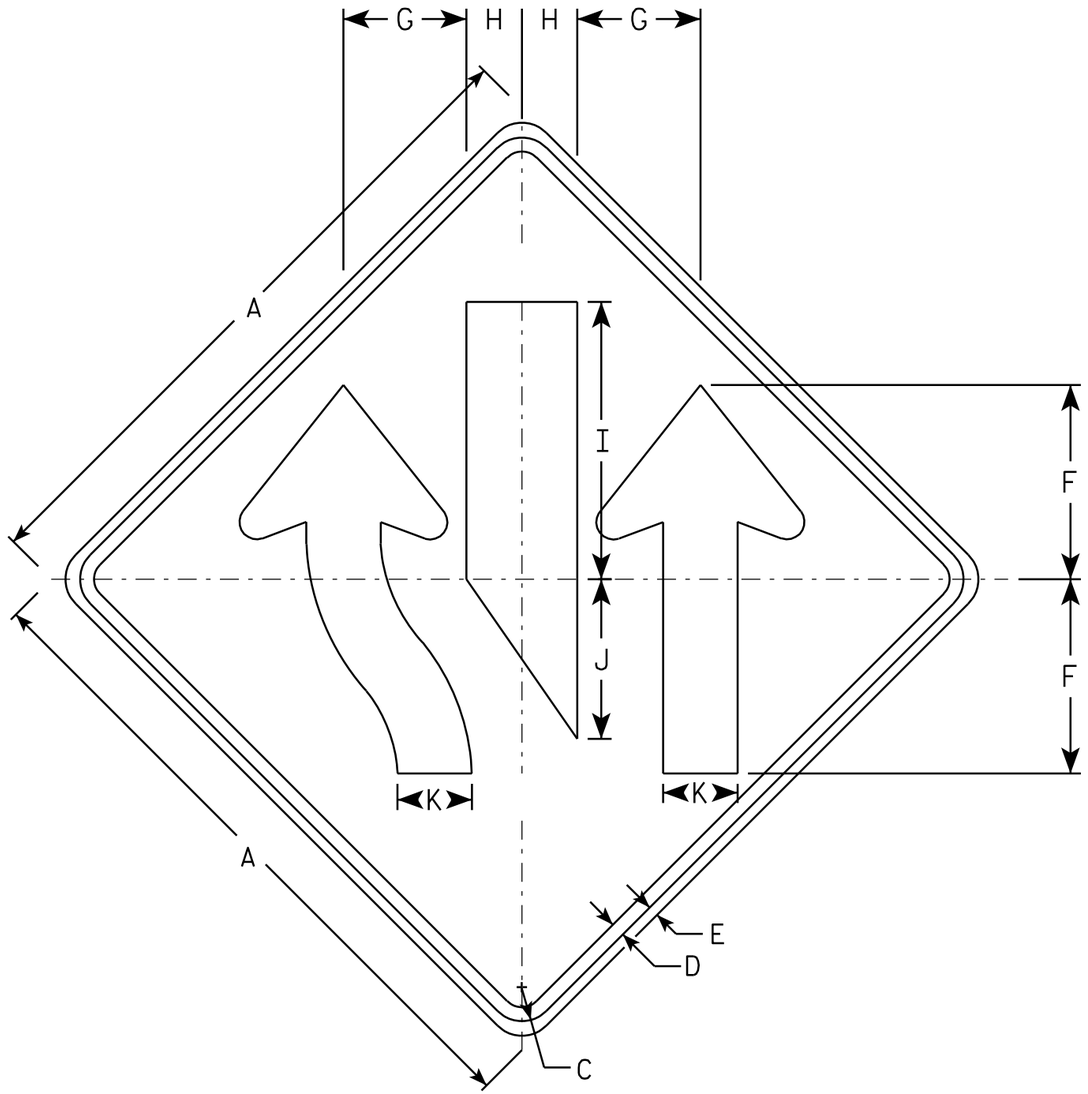
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

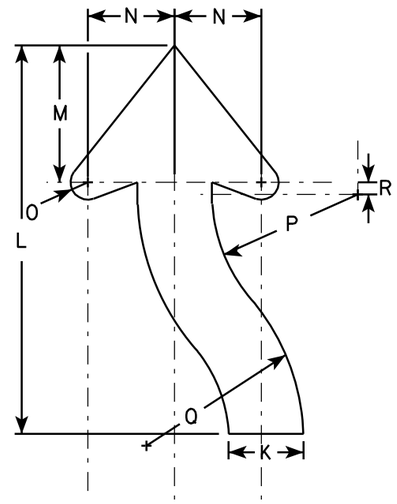
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 208	E



W9-3A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 3/8	1/2	5/8	10 1/2	6 5/8	3	15	8 5/8	4	21	7 3/8	4 3/4	7/8	8	12	3/4									9
2M	36		1 3/8	1/2	5/8	10 1/2	6 5/8	3	15	8 5/8	4	21	7 3/8	4 3/4	7/8	8	12	3/4									9
3	48		2 1/4	3/4	1	14	9	4	20	11 1/2	5 3/8	28	9 7/8	6 1/4	1 1/4	10 5/8	16	7/8									16
4	48		2 1/4	3/4	1	14	9	4	20	11 1/2	5 3/8	28	9 7/8	6 1/4	1 1/4	10 5/8	16	7/8									16
5	48		2 1/4	3/4	1	14	9	4	20	11 1/2	5 3/8	28	9 7/8	6 1/4	1 1/4	10 5/8	16	7/8									16

STANDARD SIGN
W9-3A

WISCONSIN DEPT OF TRANSPORTATION

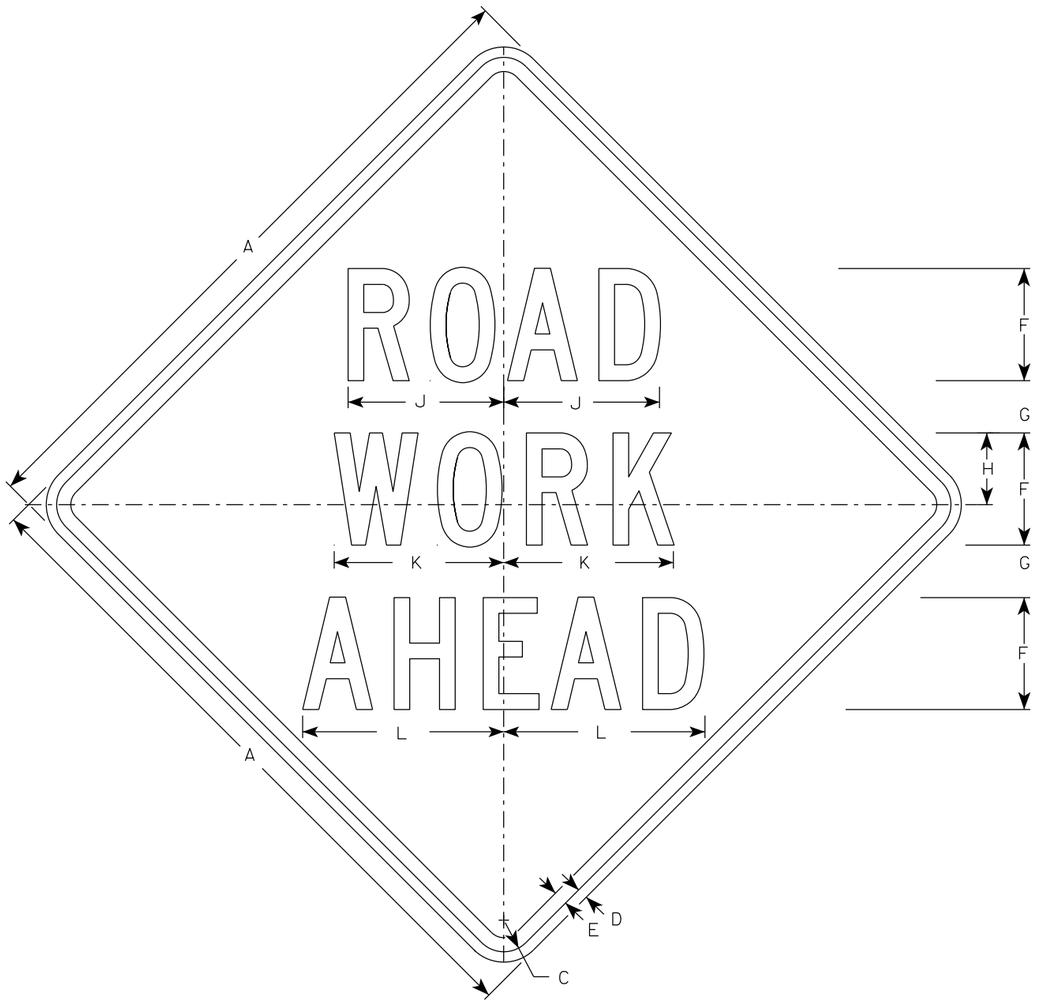
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/02/11 PLATE NO. W9-3A.2

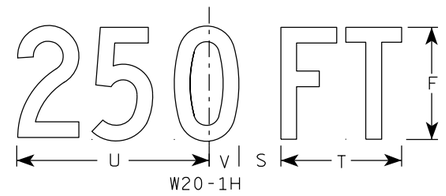
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 209 | E

NOTES

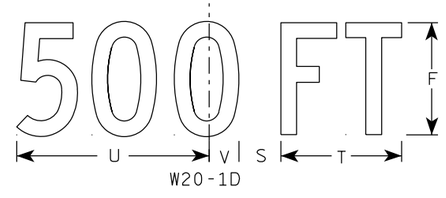
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A



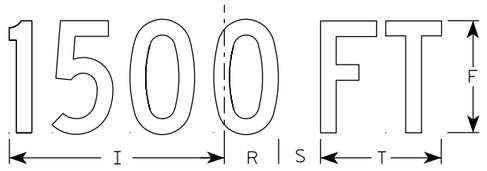
W20-1H



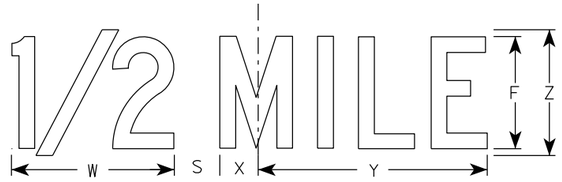
W20-1D



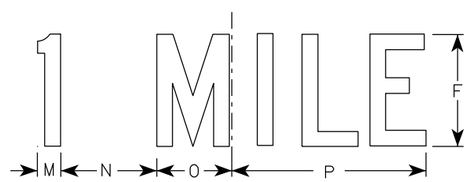
W20-1C



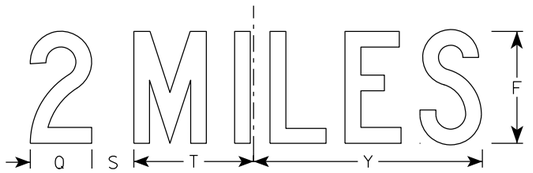
W20-1B



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

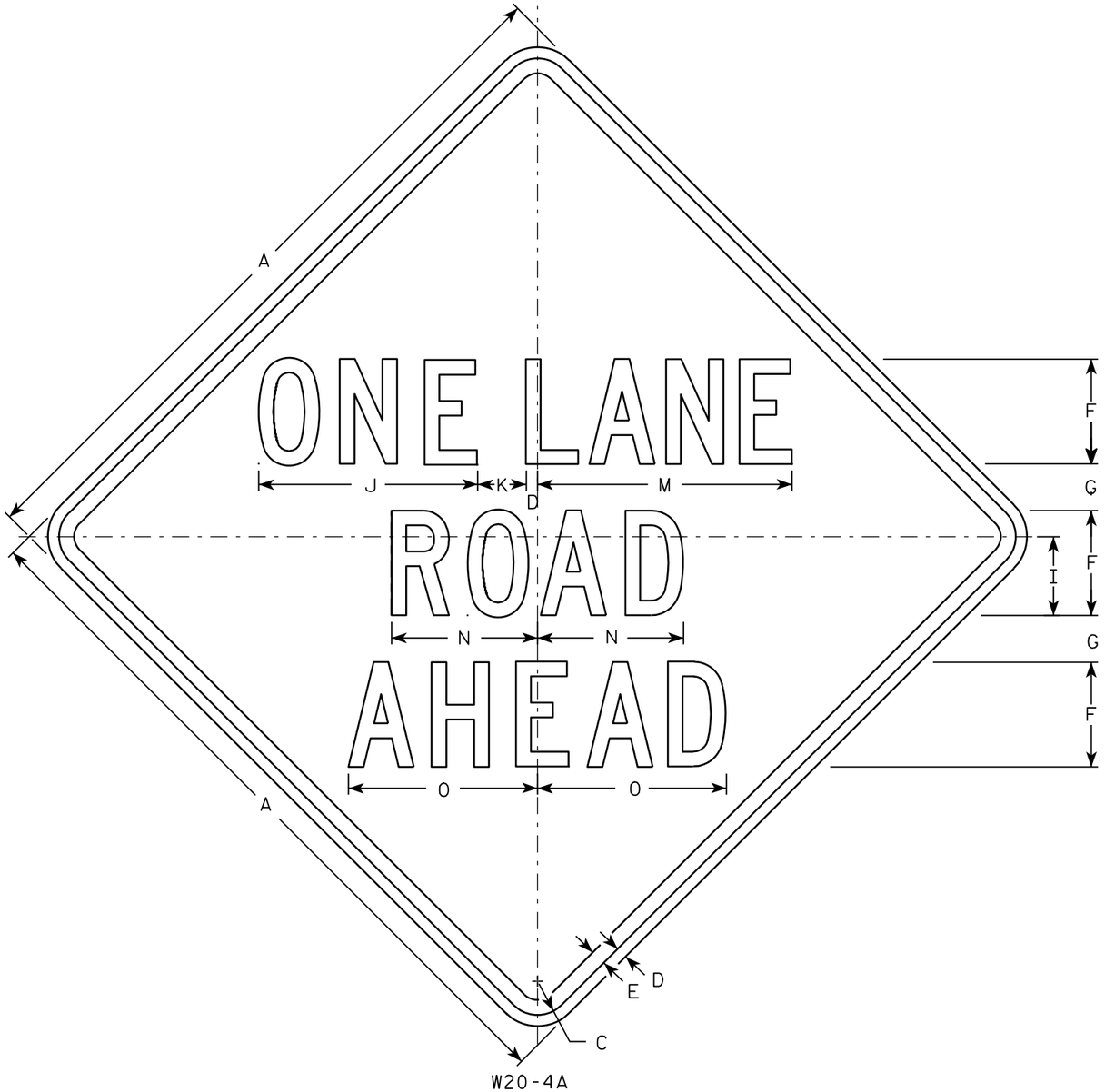
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

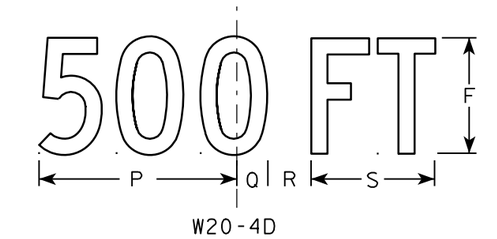
DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

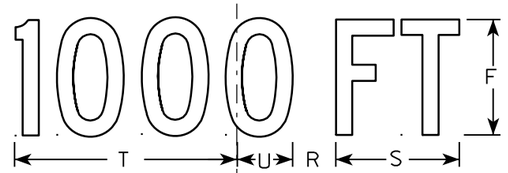
SHEET NO: E



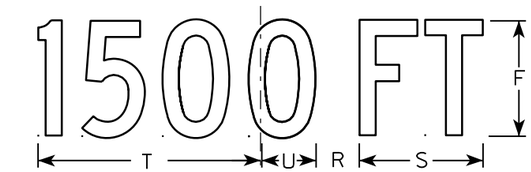
W20-4A



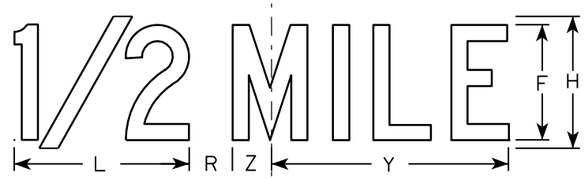
W20-4D



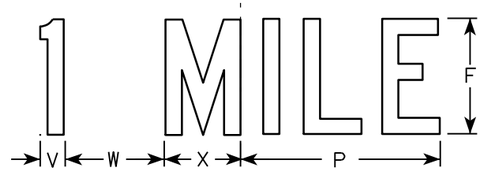
W20-4C



W20-4B



W20-4G



W20-4F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-4.9

PROJECT NO:

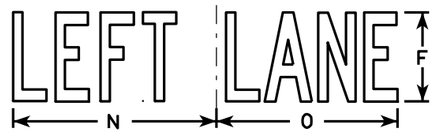
SHEET NO: 211 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W204.DGN PLOT DATE : 18-MAR-2011 12:11 PLOT BY : mscj9h

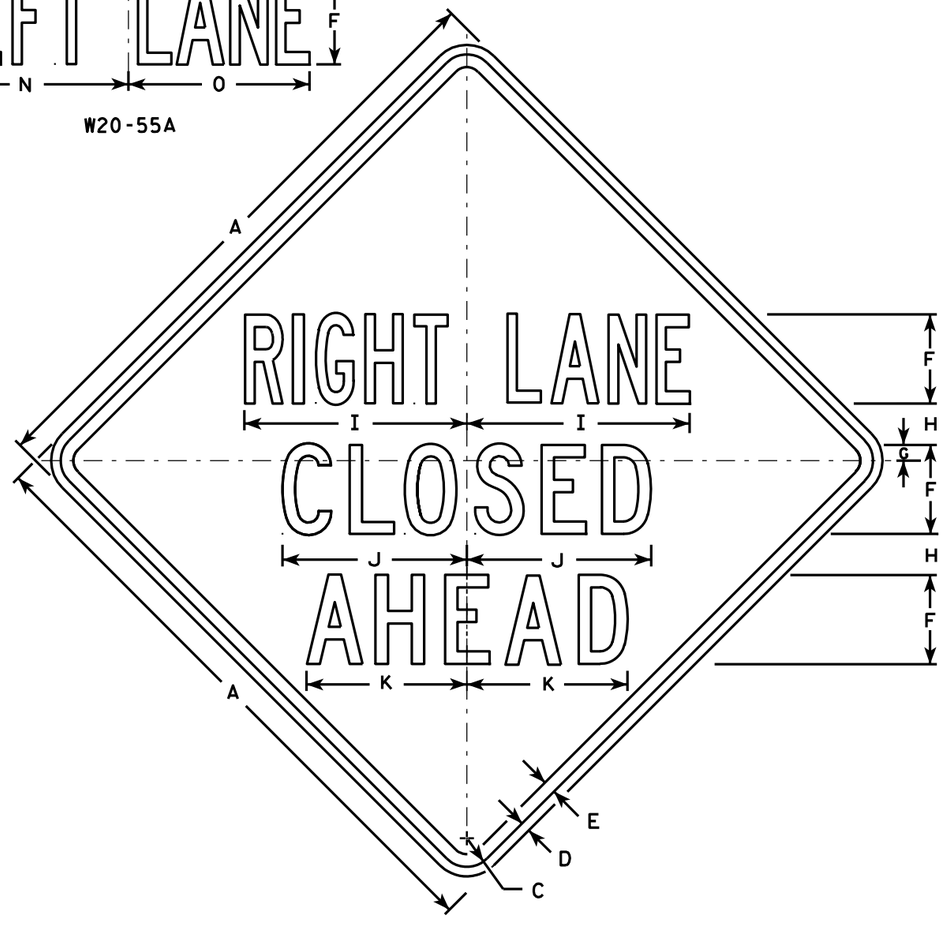
WISDOT/CADDS SHEET 42



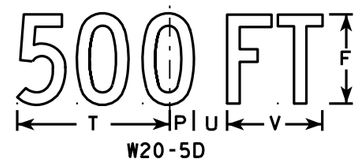
W20-56A



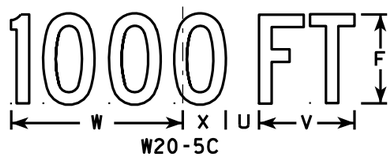
W20-55A



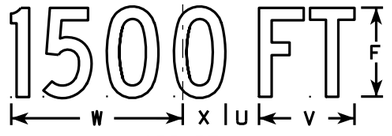
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

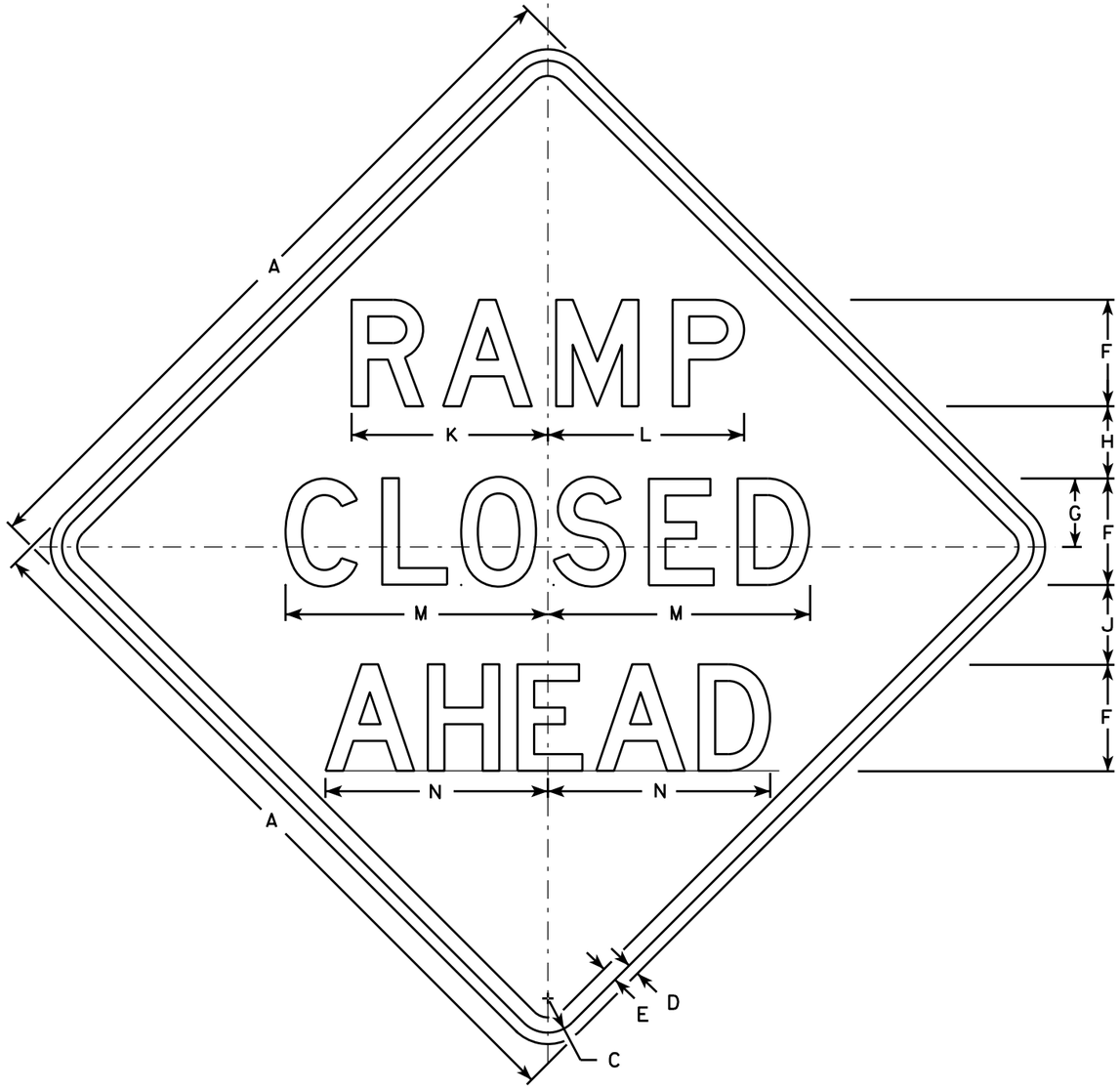
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

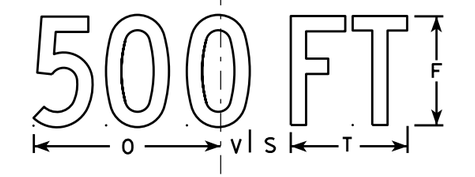
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 212 | E

7

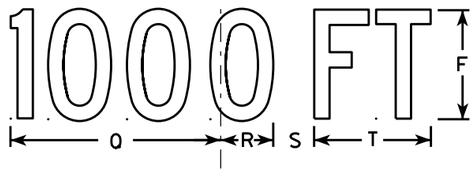
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



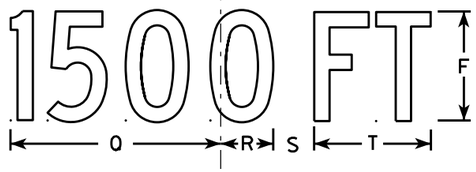
W20-53A



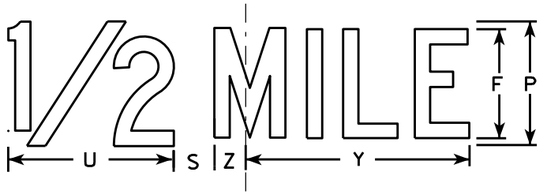
W20-53D



W20-53C



W20-53B



W20-53G



W20-53F

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

STANDARD SIGN
W20-53A,B,C,D,F,G

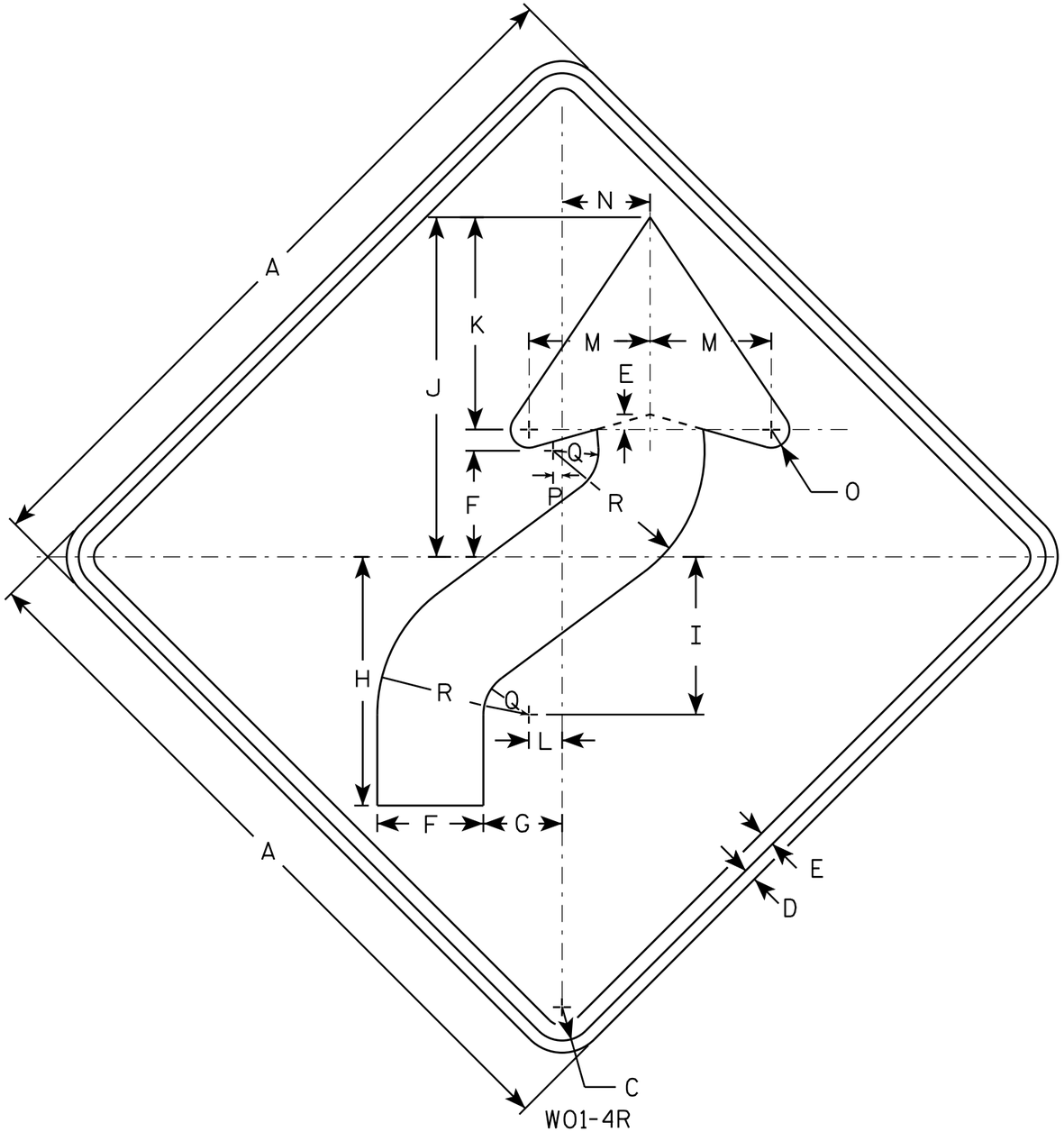
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/27/15 PLATE NO. W20-53.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN PLOT DATE : 27-MAY-2015 19:40 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.729210:1.000000 WISDOT/CADDS SHEET 42



WO1-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
WO1-4

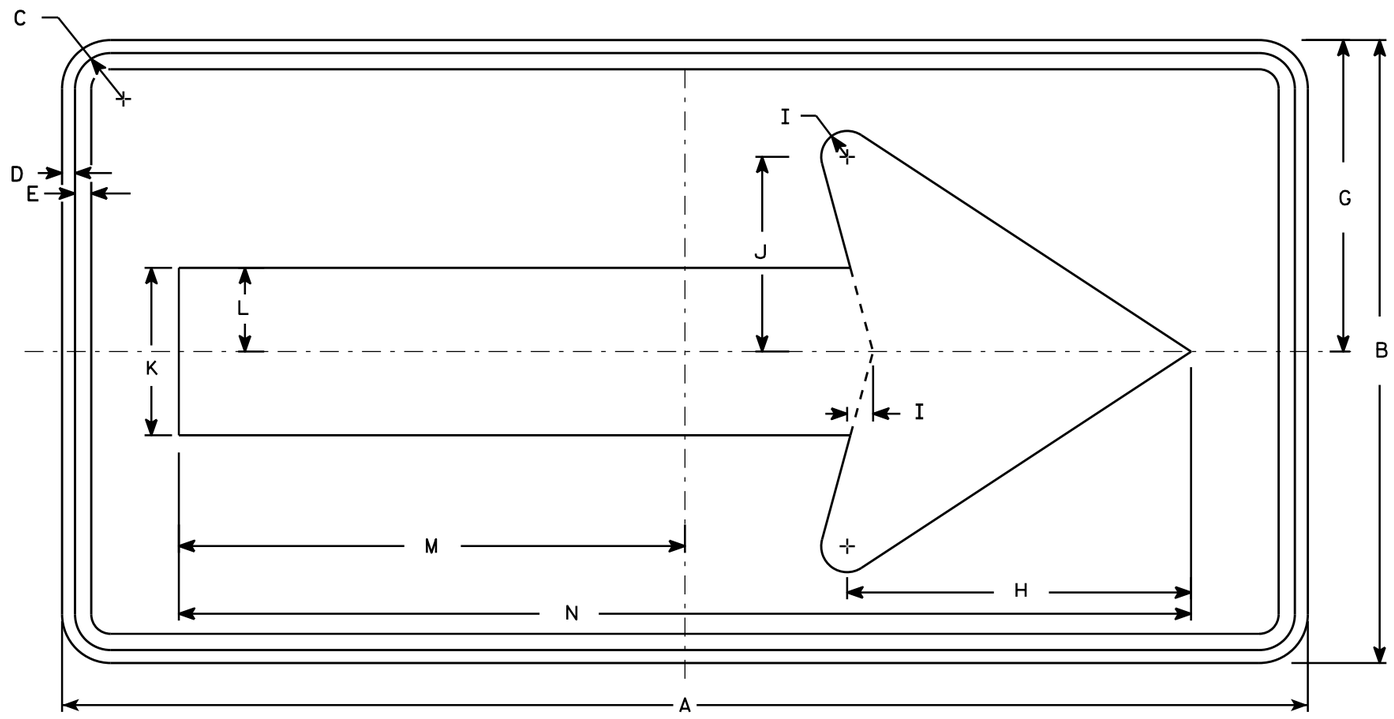
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO WO1-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO14.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

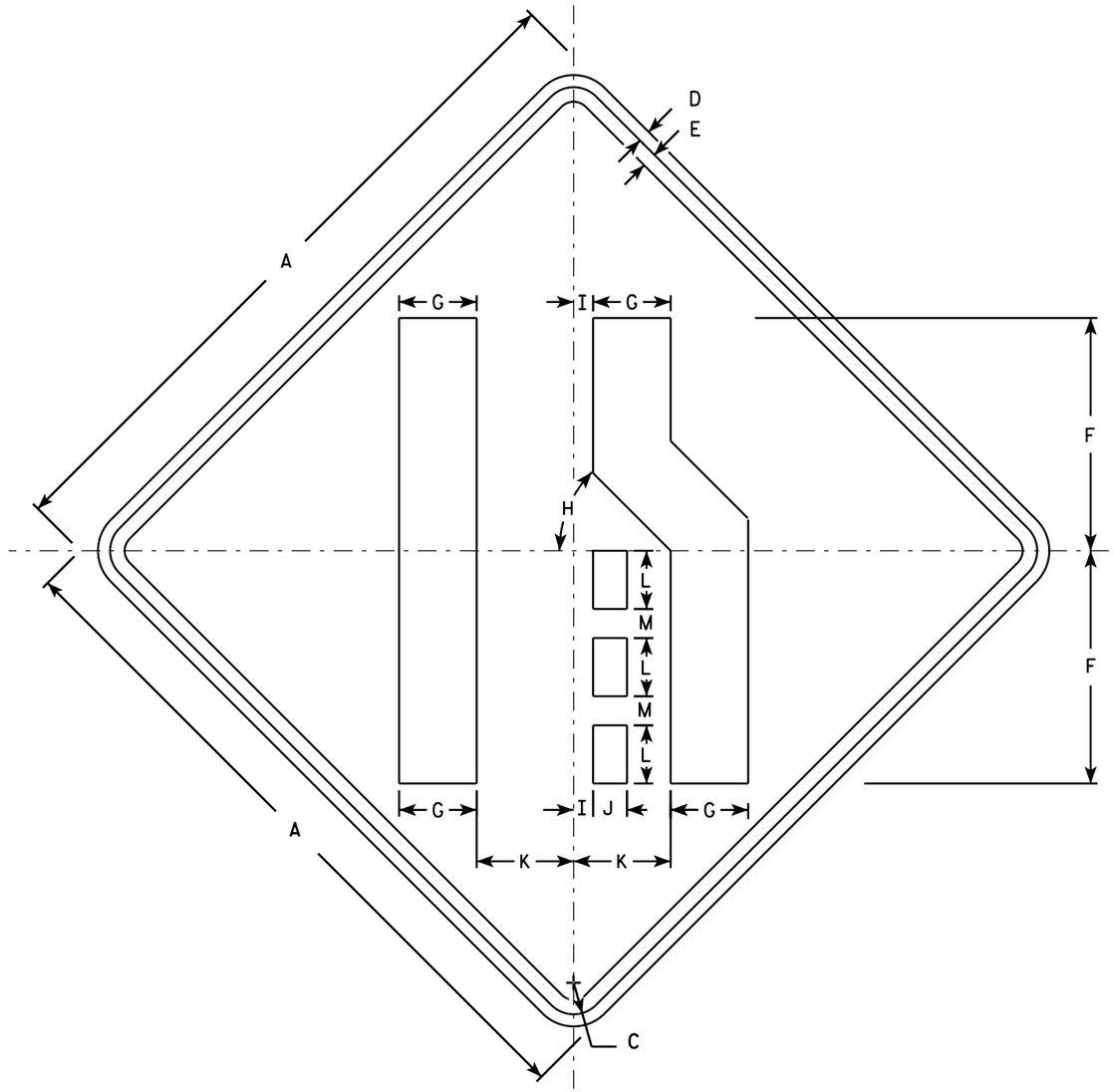
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

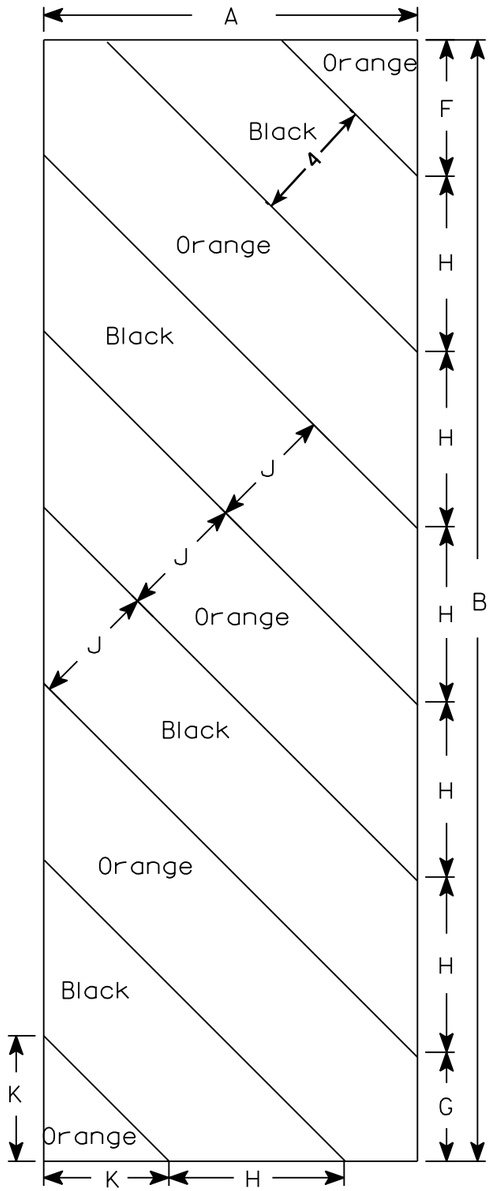
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

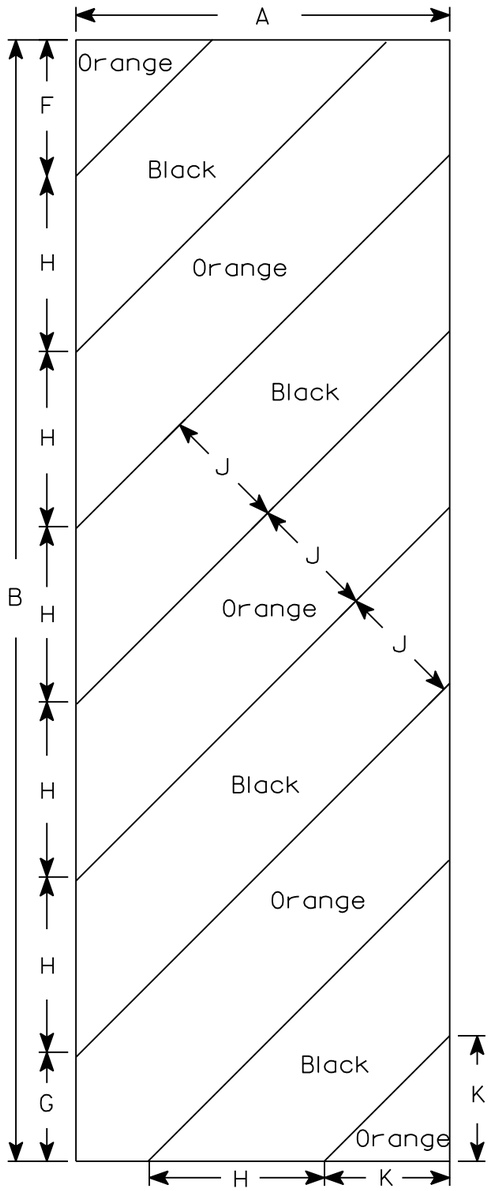
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 216 W04-2.1

PROJECT NO: | SHEET NO: E



W05-52L



W05-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

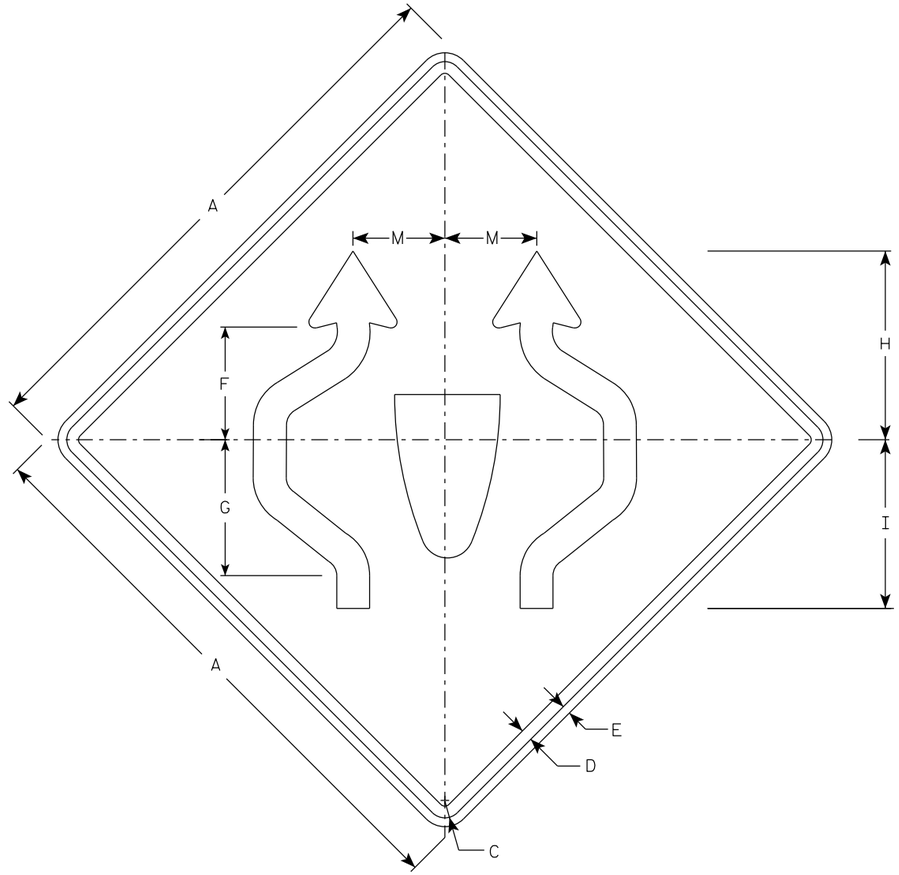
W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

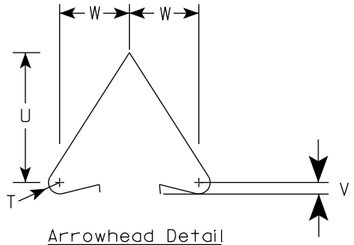
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W05-52.1

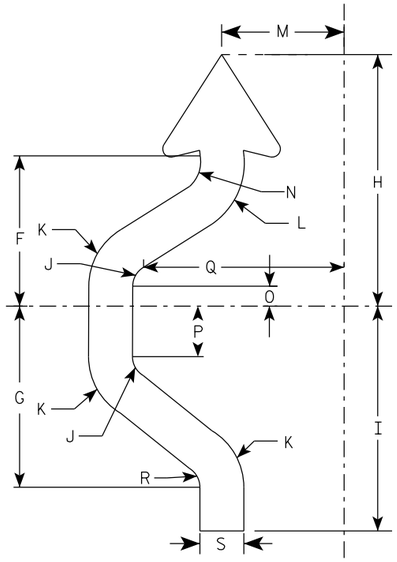
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W06-50



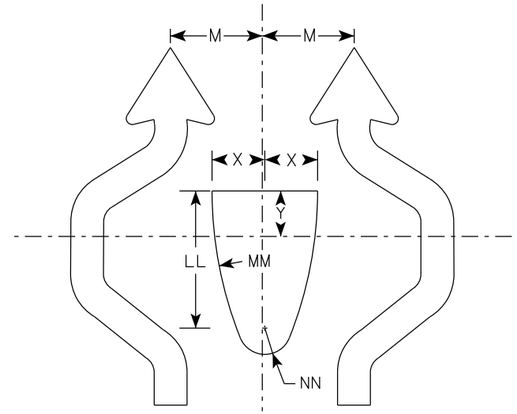
Arrowhead Detail



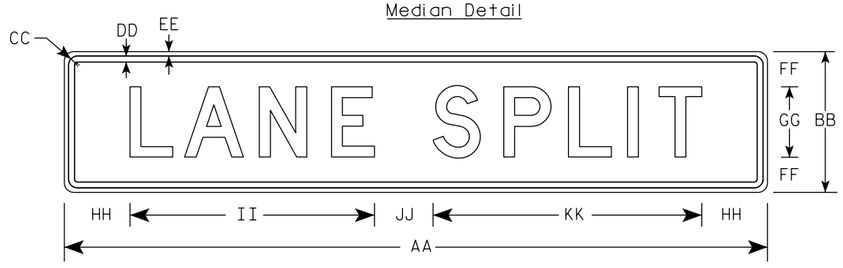
Arrow Detail

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Median Detail



W06-50P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	W06-50 Area sq. ft.	W06-50P Area sq. ft.
1																												
2S	48		2 1/4	1	3/4	9 5/8	11 5/8	16 3/8	14 3/8	1 3/8	4 1/4	4 3/4	7 7/8	2 1/8	1 1/4	3 1/4	12 7/8	1 3/8	2 3/4	1/2	5 3/4	1/2	3 1/4	4 1/2	3 7/8		16.0	5.0
2M	48		2 1/4	1	3/4	9 5/8	11 5/8	16 3/8	14 3/8	1 3/8	4 1/4	4 3/4	7 7/8	2 1/8	1 1/4	3 1/4	12 7/8	1 3/8	2 3/4	1/2	5 3/4	1/2	3 1/4	4 1/2	3 7/8		16.0	5.0
3	48		2 1/4	1	3/4	9 5/8	11 5/8	16 3/8	14 3/8	1 3/8	4 1/4	4 3/4	7 7/8	2 1/8	1 1/4	3 1/4	12 7/8	1 3/8	2 3/4	1/2	5 3/4	1/2	3 1/4	4 1/2	3 7/8		16.0	5.0
4	48		2 1/4	1	3/4	9 5/8	11 5/8	16 3/8	14 3/8	1 3/8	4 1/4	4 3/4	7 7/8	2 1/8	1 1/4	3 1/4	12 7/8	1 3/8	2 3/4	1/2	5 3/4	1/2	3 1/4	4 1/2	3 7/8		16.0	5.0
5	48		2 1/4	1	3/4	9 5/8	11 5/8	16 3/8	14 3/8	1 3/8	4 1/4	4 3/4	7 7/8	2 1/8	1 1/4	3 1/4	12 7/8	1 3/8	2 3/4	1/2	5 3/4	1/2	3 1/4	4 1/2	3 7/8		16.0	5.0

SIZE	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	UU	VV	WW	XX	YY	ZZ
1																										
2S	60	12	1 1/4	1/2	3/8	3	6	5 5/8	20 7/8	5	22 7/8	11 3/4	33 3/4	2 1/4												
2M	60	12	1 1/4	1/2	3/8	3	6	5 5/8	20 7/8	5	22 7/8	11 3/4	33 3/4	2 1/4												
3	60	12	1 1/4	1/2	3/8	3	6	5 5/8	20 7/8	5	22 7/8	11 3/4	33 3/4	2 1/4												
4	60	12	1 1/4	1/2	3/8	3	6	5 5/8	20 7/8	5	22 7/8	11 3/4	33 3/4	2 1/4												
5	60	12	1 1/4	1/2	3/8	3	6	5 5/8	20 7/8	5	22 7/8	11 3/4	33 3/4	2 1/4												

STANDARD SIGN

W06-50

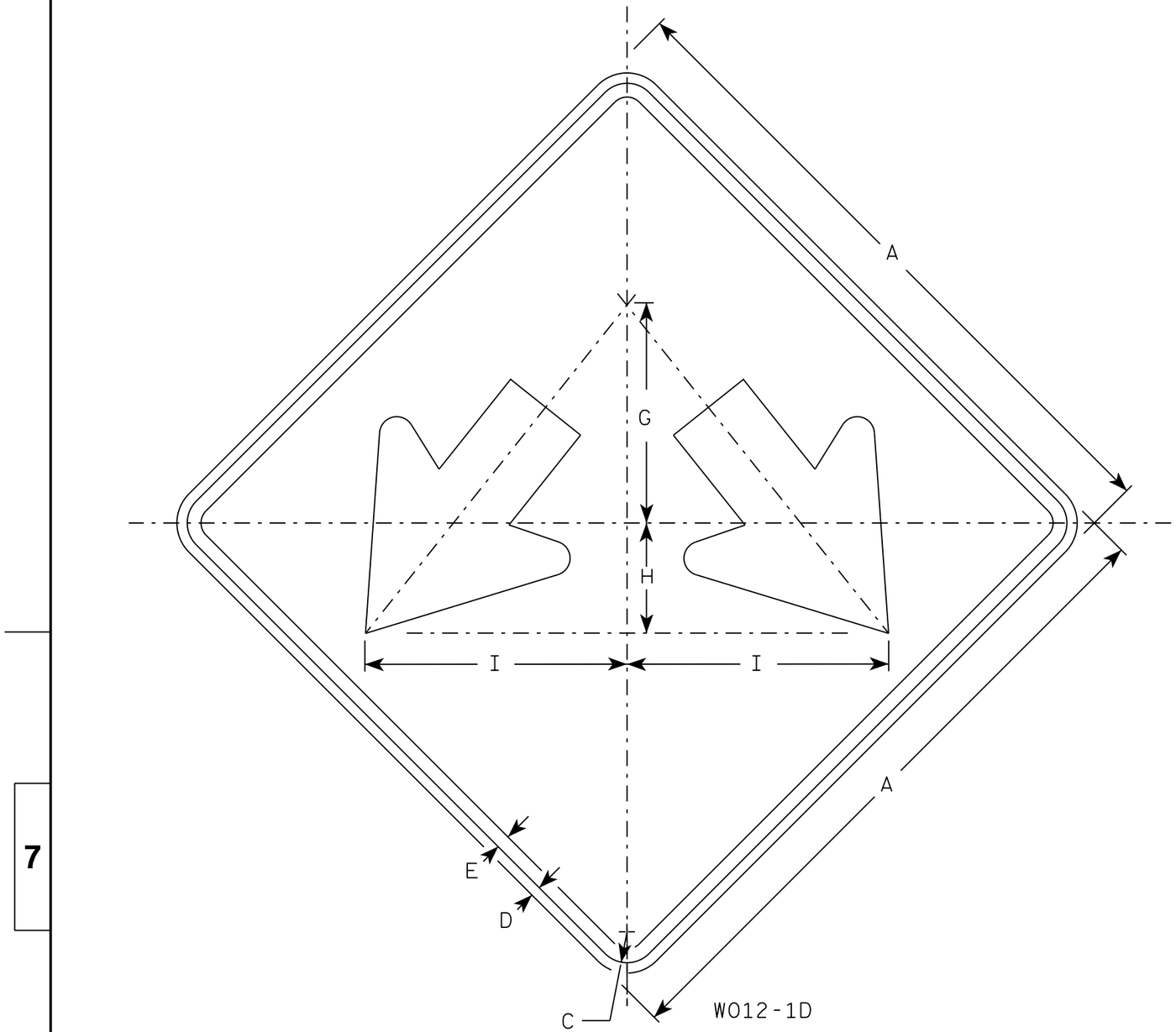
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 9/16/2021 PLATE NO. W06-50.2

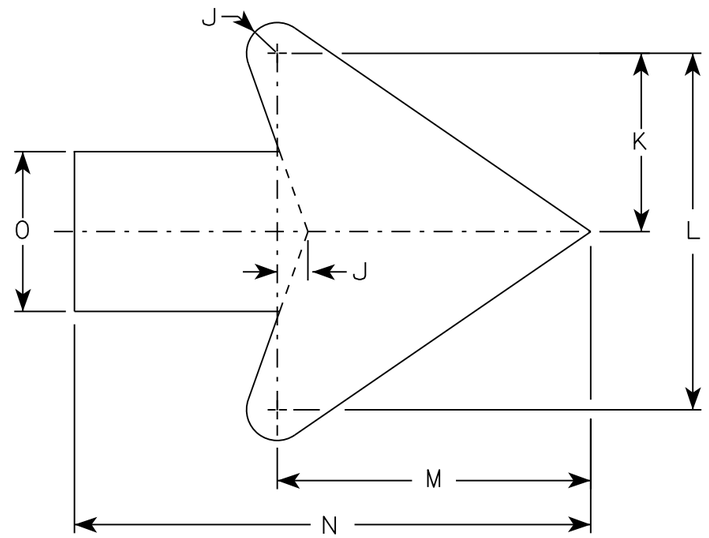
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 218 | E



W012-1D

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0

STANDARD SIGN
W012-1D

WISCONSIN DEPT OF TRANSPORTATION

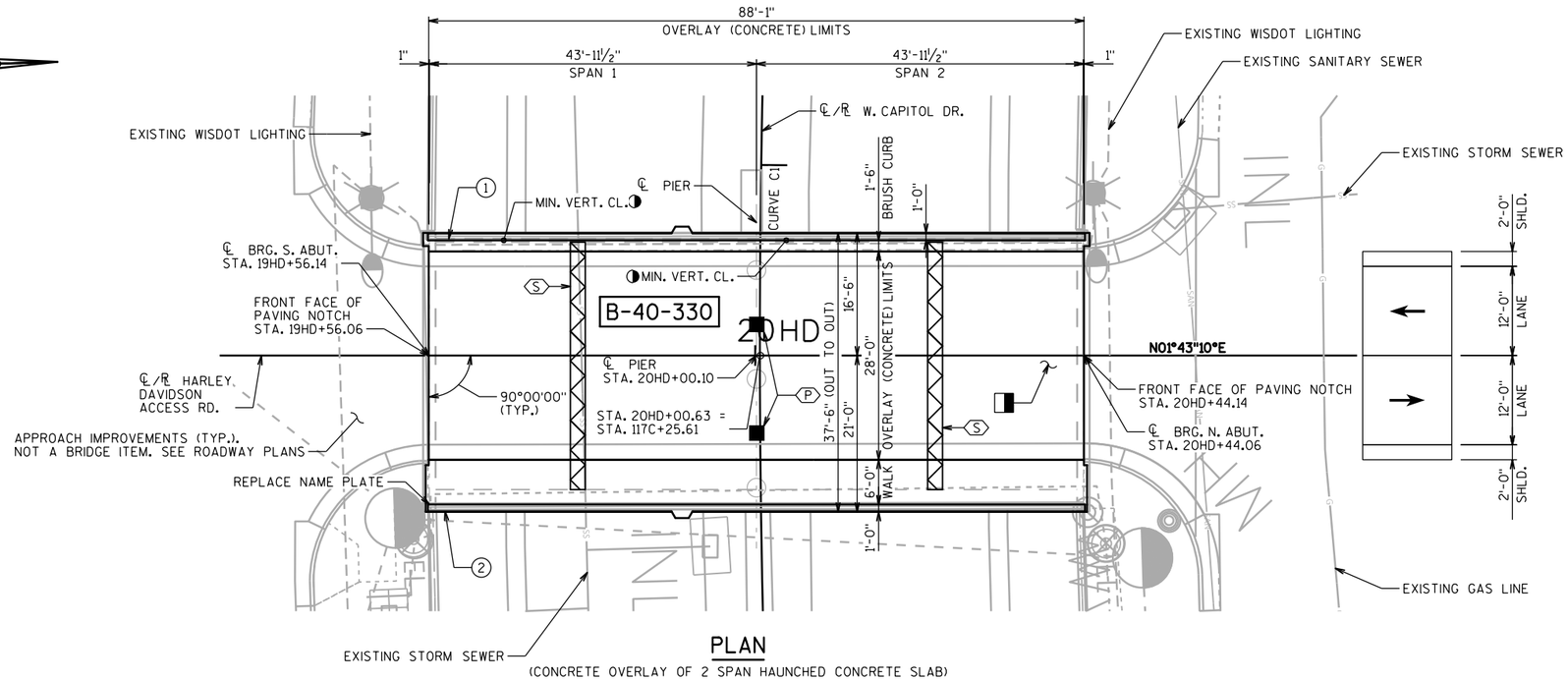
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/28/16 PLATE NO W012-1D.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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STATE PROJECT NUMBER
1100-20-74

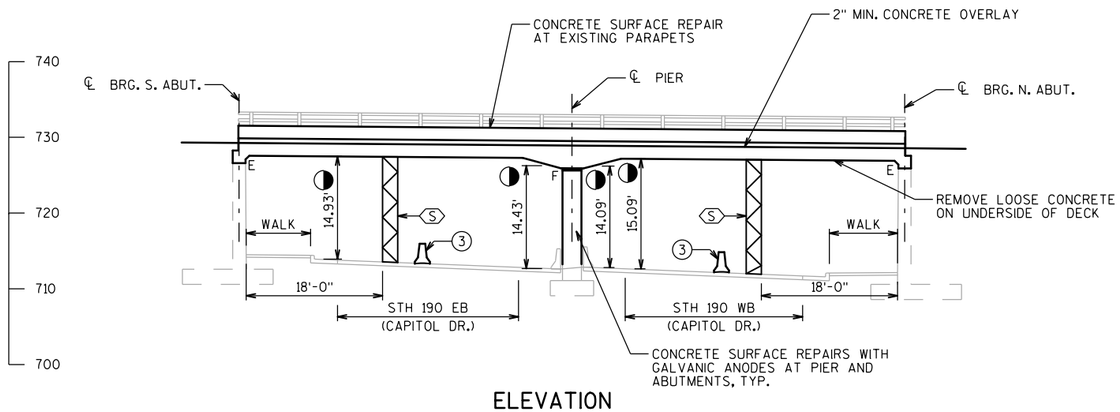


PLAN

(CONCRETE OVERLAY OF 2 SPAN HAUNCHED CONCRETE SLAB)

LEGEND

- TRAFFIC DIRECTION
- CLEARANCE DIMENSION TAKEN FROM HSIS: MEASUREMENT TAKEN 7/14/2022. LOCATION PER EXISTING PLANS.
- (1) EXISTING CONDUITS (ASSUMED ABANDONED) ATTACHED TO PARAPET TO REMAIN.
- (2) EXISTING WISDOT FTMS CONDUITS ATTACHED TO PARAPET TO REMAIN.
- (3) TEMPORARY CONCRETE BARRIER, NOT A BRIDGE ITEM
- FULL DEPTH DECK REPAIR REPAIR AREAS ARE APPROXIMATE AND ARE BASED ON THE LEVEL 2 AND LEVEL 3 DECK INFRARED THERMOGRAPHIC SURVEYS. EXACT AREAS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. NO FULL-DEPTH DECK REPAIRS WITHIN 3' OF PIER C/L.
- (S) "TEMPORARY SPAN SUPPORT" REQUIRED DURING DECK PREPARATION TYPE 1 AND TYPE 2 AND FULL-DEPTH DECK REPAIR. SUPPORT TO REMAIN UNTIL REPAIR CONCRETE HAS REACHED REQUIRED STRENGTH. DESIGN SUPPORT TO SUSTAIN 220 KIPS SERVICE DEAD LOAD AND CONSTRUCTION LOADS, EACH SUPPORT.
- (P) "TEMPORARY PIER SUPPORT" REQUIRED DURING DECK PREPARATION TYPE 1 AND TYPE 2 WITHIN 8 FEET OF C/L PIER. SUPPORT TO REMAIN UNTIL REPAIR CONCRETE HAS REACHED REQUIRED STRENGTH. DESIGN SUPPORT TO SUSTAIN 65 KIPS SERVICE DEAD LOAD AND CONSTRUCTION LOADS, EACH SUPPORT.



ELEVATION

(LOOKING WEST)

HORIZONTAL CURVE DATA

CURVE C1

P.I. = 117+55.13"C"
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. = 115+83.07"C"
Y = 317954.52
X = 565770.16
P.T. = 119+25.93"C"
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.A.D.T. = 51,000 (2019)
FUTURE A.A.D.T. = 56,300 (2040)
R.D.S. = 50 M.P.H.

DESIGN DATA

LIVE LOAD

DESIGN LOADING: HS20
INVENTORY RATING: HS19
OPERATING RATING: HS32
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT ..... f'y = 60,000 psi
CONCRETE MASONRY OVERLAY DECKS ..... f'c = 4,000 psi

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES AND QUANTITIES
3. GALVANIC ANODES
4. LEVEL 2 INFRARED THERMOGRAPHIC DECK SURVEY
5. LEVEL 3 INFRARED THERMOGRAPHIC DECK SURVEY

WISCONSIN
PATRICK J. CASHIN
27764
MILWAUKEE, WI
8/9/2023
PROFESSIONAL ENGINEER

Patrick J. Cashin

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 SDR 08/18/23
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-40-330

HARLEY DAVIDSON ACCESS RD. OVER STH 190

COUNTY	CITY
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	JWO	DESIGN CK'D.	EAJ	DRAWN BY	JWO	PLANS CK'D.	EAJ

GENERAL PLAN AND ELEVATION

SHEET 1 OF 5

220

FILE NAME : \\milw00\ingrproj\79555\b1\1100-20-74\B-40-330\cds\330_080101_gp.dgn

PLOT DATE : 8/8/2023 5:20:57 PM PLOT BY : HAnders PLOT SCALE : 20:1

STATE PROJECT NUMBER
1100-20-74

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

"PROTECTIVE SURFACE TREATMENT" TO BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY AND TO THE TOP AND VERTICAL FACES OF THE REPAIRED SIDEWALK AND CURB.

"PROTECTIVE SURFACE TREATMENT RESEAL" TO BE APPLIED TO THE TOP AND VERTICAL FACES OF THE EXISITING BRUSH CURB.

CLEAN AND APPLY PIGMENTED SURFACE SEALER TO THE TOP AND INSIDE FACES AND EXPOSED ENDS OF THE EXISTING PARAPETS. 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 LEVEL 2 AND LEVEL 3 DECK INFRARED THERMOGRAPHIC SURVEYS AND AS DETERMINED BY THE ENGINEER. NO FULL-DEPTH DECK REPAIR WITHIN 3' OF PIER C/L.

CONFIRM THAT "PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2" REMOVALS TO SOUND CONCRETE RESULT IN ROUGHENED SURFACE OF 1/4" MINIMUM AMPLITUDE.

FILL "FULL-DEPTH DECK REPAIR" AREAS WITH "CONCRETE MASONRY BRIDGES" FROM BOTTOM OF SLAB TO 1" BELOW THE TOP TRANSVERSE REINFORCING BARS. LEAVE TOP OF CONCRETE AS A ROUGHENED CONSTRUCTION JOINT. TOP LAYER OF "FULL-DEPTH DECK REPAIR" AREAS TO BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

DECK PREPARATION AREAS TO BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

"CONCRETE MASONRY BRIDGES" IN "FULL-DEPTH DECK REPAIR" MUST REACH 3,500 PSI COMPRESSIVE STRENGTH PRIOR TO PLACING THE CONCRETE OVERLAY.

UNDERSIDE OF DECK REPAIRS TO BE ADDRESSED AS FOLLOWS. PERFORM "DECK PREPARATION TYPE 1", "DECK PREPARATION TYPE 2" AND "FULL-DEPTH DECK REPAIR" FIRST. "REMOVING LOOSE CONCRETE" TO BE USED FOR AREAS WHERE LONGITUDINAL SLAB REINFORCEMENT IS EXPOSED IN THE FINAL CONDITION FOR NO MORE THAN 3' IN LENGTH AND FOR NO MORE THAN 50% OF THE BAR CIRCUMFERENCE. USE "CONCRETE SURFACE REPAIR" FOR REMAINING DEFECTS NOT ADDRESSED BY "FULL-DEPTH DECK REPAIR" OR "REMOVING LOOSE CONCRETE". LOCATIONS AND TYPES OF REPAIRS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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 (FULL LENGTH REPAIR AT EAST CURB ANTICIPATED)

"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. (REPAIR OF ENTIRE EAST SIDEWALK SURFACE ANTICIPATED.)

"EMBEDDED GALVANIC ANODES" TO PAID FOR SEPARATELY. QUANTITIES SHOWN IN THE QUATITIES TABLE ARE APPROXIMATE. INCLUDE "EMBEDDED GALVANIC ANODES" AT THE FOLLOWING LOCATIONS.
- ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS
- CONCRETE SURFACE REPAIRS ON THE UNDERSIDE OF SLAB
- BOTTOM OF FULL-DEPTH DECK REPAIRS

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

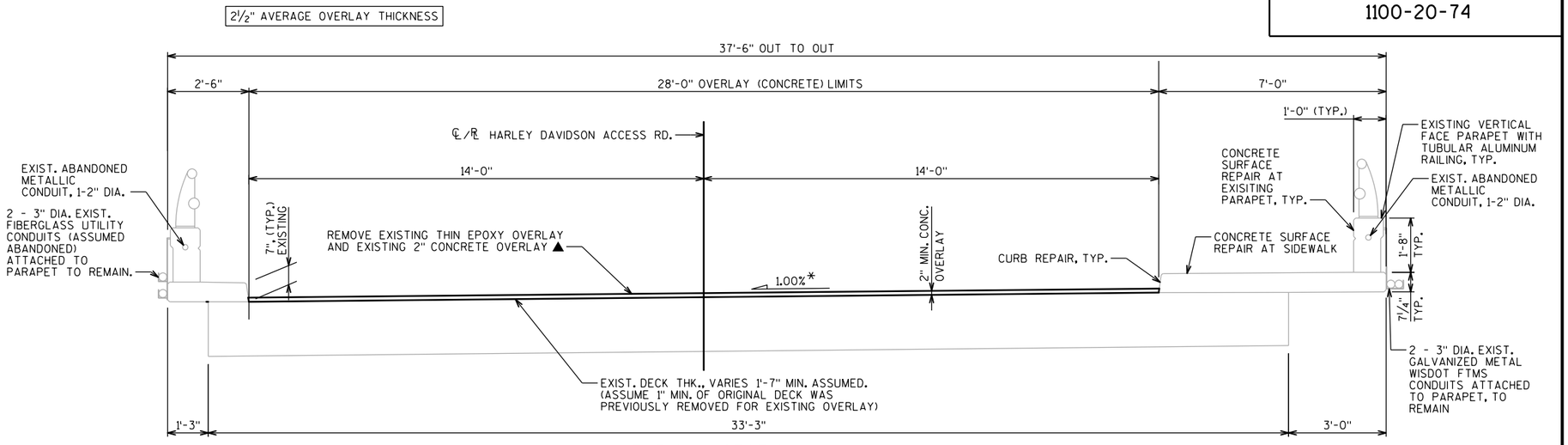
AT "CURB REPAIR" REMOVE CONCRETE TO SOUND CONCRETE OR AT LEAST 1" BEHIND EXISTING REINFORCING STEEL.

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS 1/2" TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

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 STAGING CALLS FOR THE BRIDGE TO BE CLOSED TO VEHICULAR TRAFFIC AND REQUIRES PEDESTRIAN ACCESS TO BE MAINTAINED DURING CONSTRUCTION. SIDEWALK AND CURB REPAIRS AND WORK AT EAST PARAPET TO BE PERFORMED FIRST, WITH TEMPORARY PEDESTRIAN ACCESS PROVIDED THROUGH THE CLOSED TRAFFIC LANES. NEWLY REPAIRED SIDEWALK TO REMAIN OPEN TO PEDESTRIAN TRAFFIC DURING DECK AND WEST PARAPET WORK. CONTRACTOR RESPONSIBLE FOR ADDITIONAL CURB REPAIRS NEEDED AFTER DECK PATCHING AND OVERLAY WORK IS COMPLETE AT NO ADDITIONAL COST. SEE ROADWAY PLANS FOR COMPLETE STAGING INFORMATION.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR OF 1967.



TYPICAL SECTION
(LOOKING NORTH)

LEGEND

* PROPOSED TO MATCH EXISTING

▲ REMOVE EXISTING POLYMER OVERLAY AND EXISTING CONCRETE MASONRY OVERLAY FROM THE ENTIRE BRIDGE SLAB UNDER THE BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY B-40-330".

GENERAL NOTES CONT.

REGULATED ASBESTOS CONTAINING MATERIAL WAS FOUND ON THIS STRUCTURE IN THE GASKETS UNDER THE TUBULAR RAILING ATTACHMENT PLATES ON THE CONCRETE PARAPETS. SEE SPECIAL PROVISIONS FOR REMOVAL OF ASBESTOS CONTAINING MATERIAL ON THE PARAPETS.

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

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 2 1/2", 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" DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL	
203.0211.S.0001	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-40-330	EACH	1	
502.0100	CONCRETE MASONRY BRIDGES	CY	23	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	338	
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	52	
502.3215	PROTECTIVE SURFACE TREATMENT RESEAL	SY	20	
509.0301	PREPARATION DECKS TYPE 1	SY	240	
509.0302	PREPARATION DECKS TYPE 2	SY	74	
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	274	
509.1200	CURB REPAIR	LF	115	
509.1500	CONCRETE SURFACE REPAIR	SF	760	⓪
509.2000	FULL-DEPTH DECK REPAIR	SY	55	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	37	
509.9005.S.0001	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-330	SY	274	
SPV.0060.4000	EMBEDDED GALVANIC ANODES	EACH	180	⓪
SPV.0060.4051	TEMPORARY SPAN SUPPORT B-40-330	EACH	2	
SPV.0060.4061	TEMPORARY PIER SUPPORT B-40-330	EACH	2	
SPV.0165.4000	REMOVING LOOSE CONCRETE	SF	60	
	NAMEPLATE	EACH	1	

ALL ITEMS ARE CATEGORY 2000

⓪ ESTIMATED BREAKDOWN OF QUANTITIES (FOR INFORMATION ONLY)
CONCRETE SURFACE REPAIR: S. ABUT. = 5 SF, PIER = 20 SF, N. ABUT. = 5 SF, UNDERSIDE OF DECK = 60 SF, SIDEWALK = 540 SF, PARAPETS = 130 SF
EMEDDED GALVANIC ANODES: S. ABUT. = 5 EA, PIER = 20 EA, N. ABUT. = 5 EA, UNDERSIDE OF DECK = 150 EA

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-330

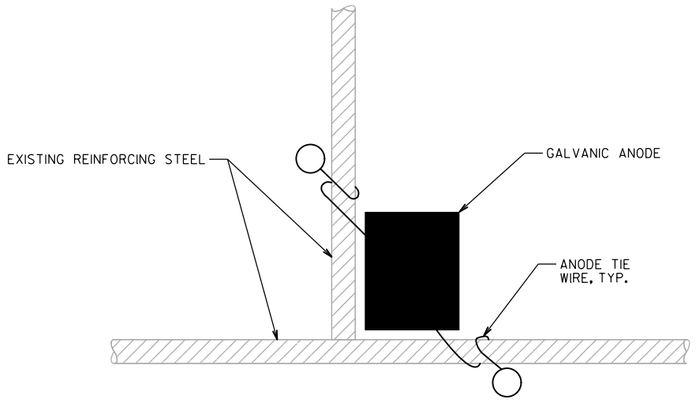
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TYPICAL SECTION, GENERAL NOTES AND QUANTITIES

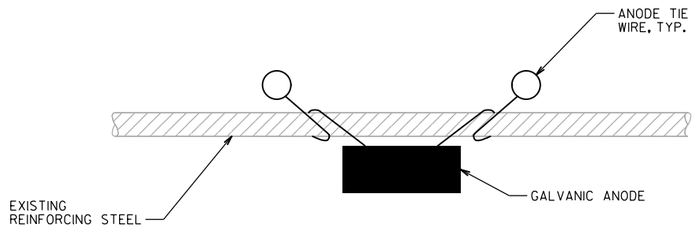
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STATE PROJECT NUMBER
1100-20-74

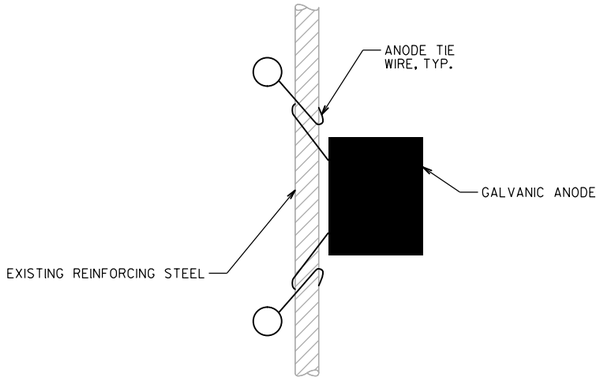


TYPICAL INSTALLATION AT BAR STEEL INTERSECTION



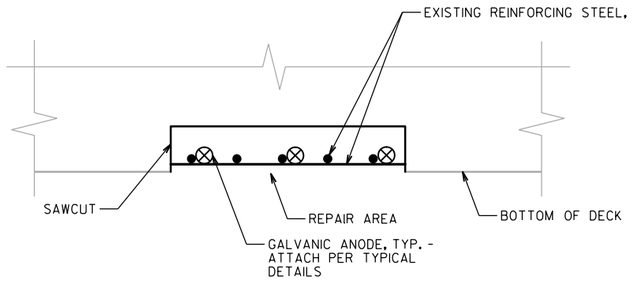
TYPICAL INSTALLATION BELOW BAR STEEL

(HORIZONTAL)

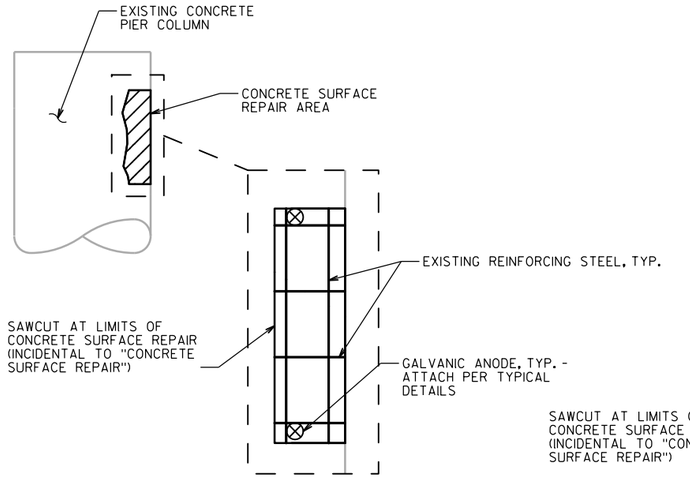


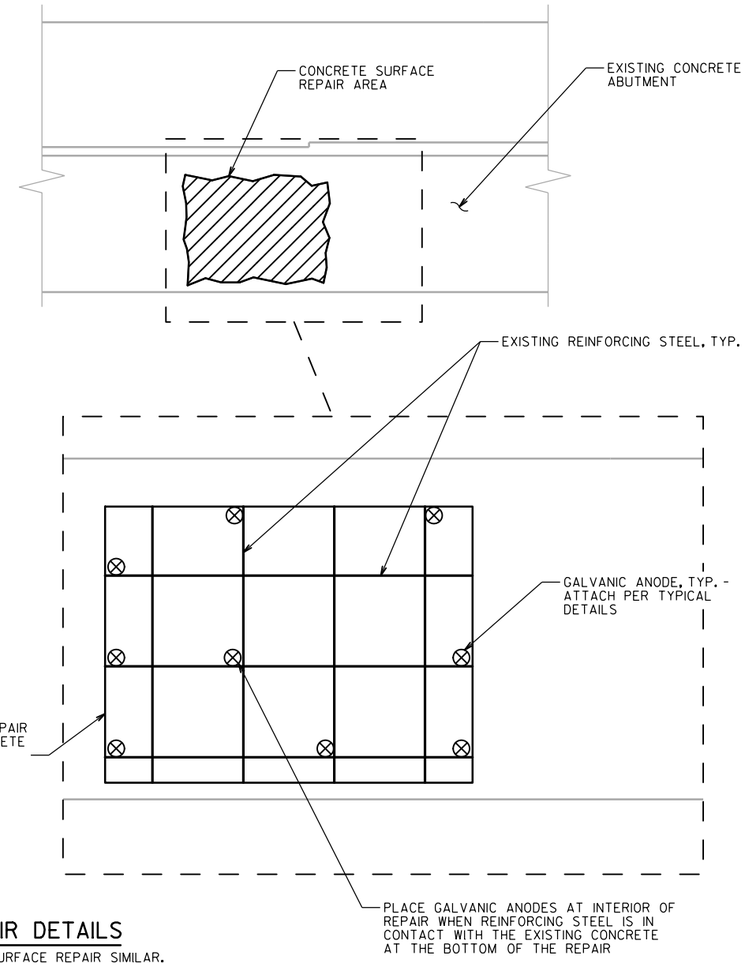
TYPICAL INSTALLATION BESIDE BAR STEEL

(VERTICAL)



PART. SECTION BOTTOM OF SLAB REPAIR DETAIL





TYPICAL STRUCTURE REPAIR DETAILS

VERTICAL SURFACE REPAIR SHOWN, HORIZONTAL SURFACE REPAIR SIMILAR.

NOTES

SURFACE REPAIR AREAS WITH CATHODIC PROTECTION ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. THE PLAN QUANTITY FOR THE BID ITEM "EMBEDDED GALVANIC ANODES" IS BASED ON A MAXIMUM SPACING OF 24-INCHES AROUND THE SURFACE REPAIR PERIMETER. THE ACTUAL QUANTITY SHALL BE BASED ON THE FIELD CONDITIONS AND AS RECOMMENDED BY THE GALVANIC ANODE SUPPLIER.

SURFACE REPAIRS SHALL BE FILLED WITH REPAIR MATERIALS COMPATIBLE WITH CATHODIC PROTECTION, AS RECOMMENDED BY THE ANODE SUPPLIER.

EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL AND CONCRETE TO PROVIDE SUFFICIENT ELECTRICAL CONNECTION AND BOND. CATHODIC PROTECTION PREPARATIONS ARE INCLUDED IN THE BID ITEM "EMBEDDED GALVANIC ANODES".

ANODES NEAREST TO EDGE OF REPAIR TO BE WITHIN 6" OF EDGE.

AFTER PLACEMENT, GALVANIC ANODES SHOULD MAINTAIN A MINIMUM TOP COVER OF 1½" AND A MINIMUM BOTTOM COVER OF ¾".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-330

DRAWN BY JWO | PLANS CK'D. EAJ

GALVANIC ANODES

SHEET 3

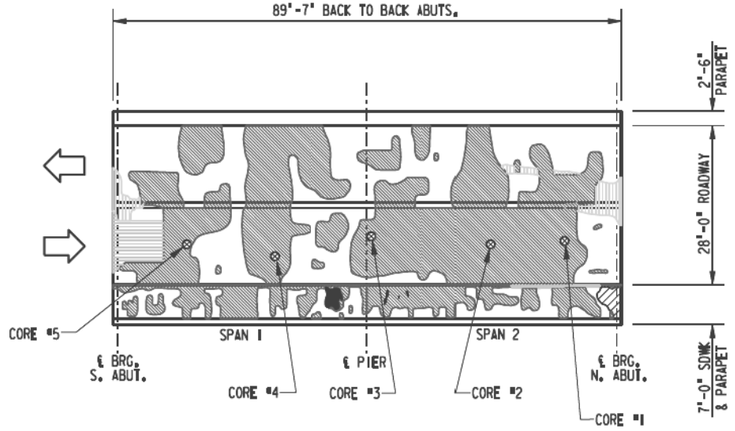
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STATE PROJECT NUMBER

1100-20-74



PLAN

INFRARED THERMOGRAPHIC SURVEY RESULTS

STRUCTURE NO. B-40-330

FIELD OBSERVATIONS SUMMARY		ROADWAY		SIDEWALK		LEGEND
ITEM	UNIT	QUANT.	%	QUANT.	%	
TOTAL AREA	ft^2	2508		537		DELAMINATION
SHADE/DEBRIS	ft^2	0		17		SPALL
DELAMINATION	ft^2	1364	54.4	282	54.2	DEBOND
SPALL	ft^2	0	0	12	2.3	ASPHALT PATCH
DEBONDED/MISSING POLYMER OVLY	ft^2	103	4.1	N/A	N/A	PCC PATCH
ASPHALT PATCH	ft^2	0	0	0	0	SHADE/DEBRIS
PCC PATCH	ft^2	68	2.7	8	1.5	

N

SCALE 0' 5' 10' 20'

SURFACE TYPE: THIN POLYMER OVERLAY/ CONCRETE OVERLAY

INFRARED INSPECTION DATE: 10/18/21

DECK CORING DATE: 12/2/22

AECOM

DATA COL TC/DD
ANALYSIS TC
CADD DS
CHECKED BS

NO. | REVISIONS | DRN | CHK | DATE

INFRARED THERMOGRAPHIC INVESTIGATION OF HARLEY DAVIDSON ACCESS RD OVER STH 190-CAPITOL DR STRUCTURE NO. B-40-330

PREPARED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION BUREAU OF STRUCTURES

DATE 12/5/22

PROJECT NO 60661059

FILENAME B-40-330-IR.DGN

SHEET NO 1 OF 1

DRAWING NO

8

8

NOTES:

LEVEL 2 (TOP OF DECK) INFARED INSPECTION PERFORMED BY AECOM ON 10/18/2021.

DEFECT AREAS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. THE FIELD ENGINEER WILL SOUND THE DECK AND MARK AREAS IN THE FIELD.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-330

DRAWN BY HDA | PLANS CK'D. PJC

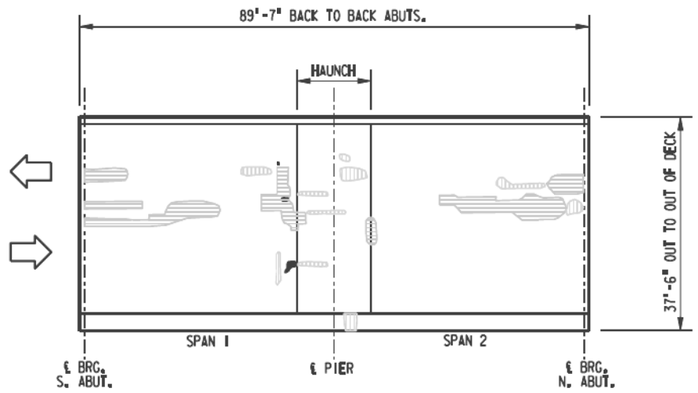
LEVEL 2 INFRARED THERMOGRAPHIC DECK SURVEY

SHEET 4

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STATE PROJECT NUMBER

1100-20-74



PLAN - VIEWED FROM TOP

DECK UNDERSIDE VISUAL SURVEY RESULTS

FIELD OBSERVATIONS SUMMARY		STRUCTURE NO. B-40-330	
ITEM	UNIT	QUANT.	%
TOTAL AREA	ft^2	3359	
DELAMINATION	ft^2	0	0
SPALL	ft^2	4	0.1
MOISTURE	ft^2	0	0
STAINING	ft^2	53	1.6
HONEY COMBING	ft^2	0	0
PCC PATCH	ft^2	204	6.1

LEGEND

DELAMINATION
SPALL
MOISTURE
STAINING
HONEY COMBING
PCC PATCH

SCALE 0' 5' 10' 20'

UNDERSIDE INSPECTION DATE: 12/15/22, 3:30 PM

DATA COL TT
ANALYSIS DS
CHKD BS
CHECKED BS
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AECOM

DECK UNDERSIDE VISUAL SURVEY OF HARLEY DAVIDSON ACCESS RD OVER STH 190-CAPITOL DR STRUCTURE NO. B-40-330

PREPARED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION BUREAU OF STRUCTURES

DATE 12/20/22
PROJECT NO 60661059
FILENAME B-40-330-BOT.DGN
SHEET NO 1 OF 1
DRAWING NO

NOTES:

LEVEL 3 (UNDERSIDE OF DECK) INFARED INSPECTION PERFORMED BY AECOM ON 12/15/2022.

DEFECT AREAS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. THE FIELD ENGINEER WILL SOUND THE DECK AND MARK AREAS IN THE FIELD.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

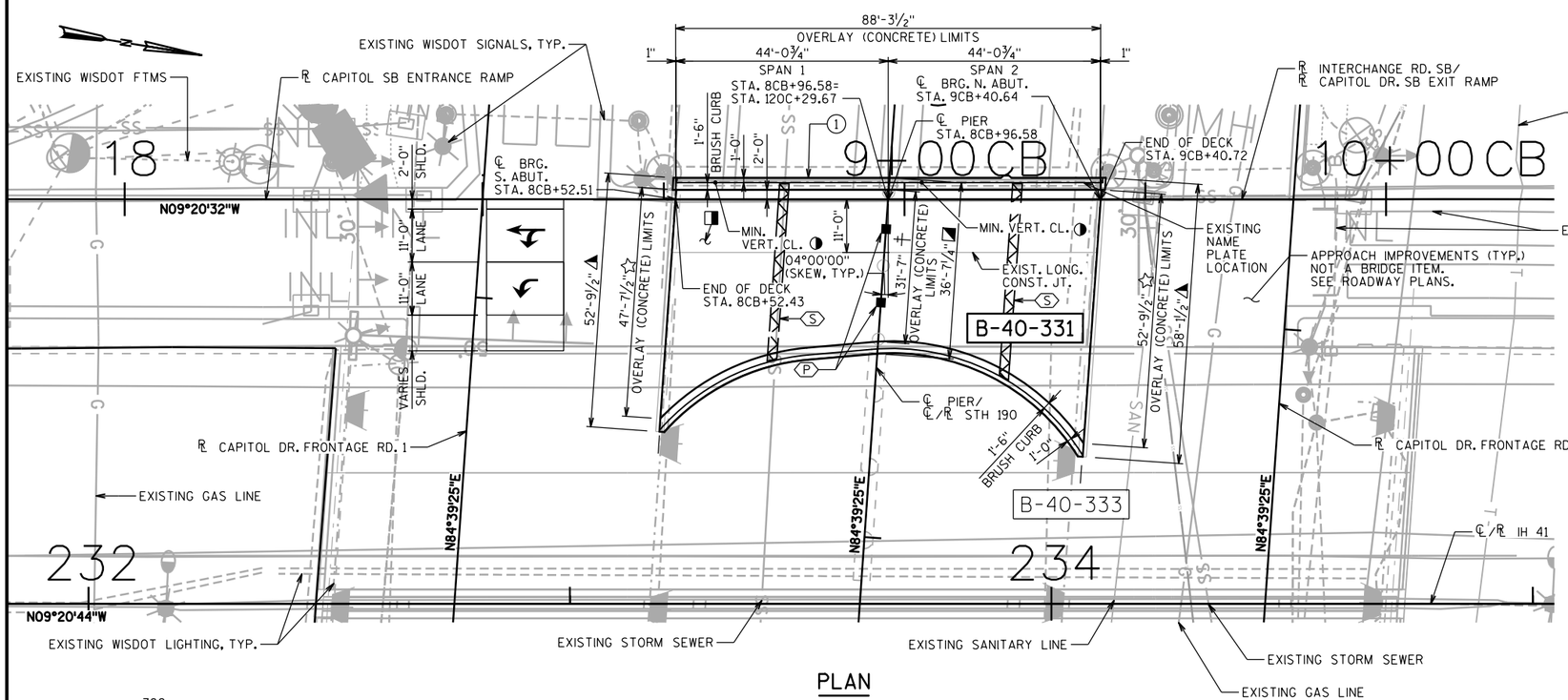
STRUCTURE B-40-330

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LEVEL 3 INFRARED THERMOGRAPHIC DECK SURVEY

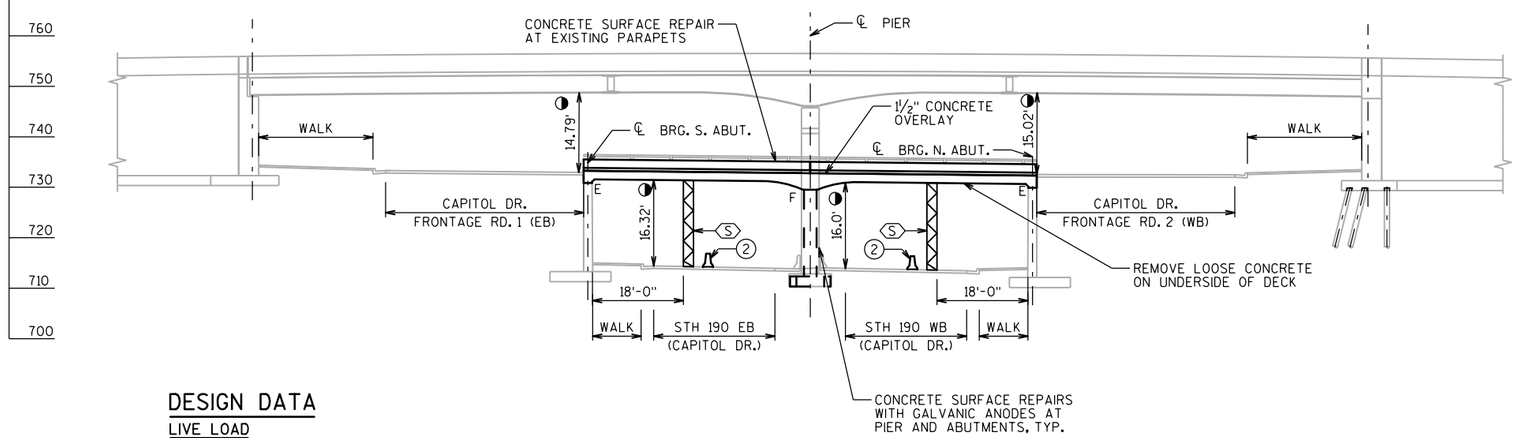
SHEET 5

STATE PROJECT NUMBER
1100-20-74



PLAN

(CONCRETE OVERLAY OF 2 SPAN HAUNCHED CONCRETE SLAB)



ELEVATION

(LOOKING WEST)

LEGEND

- TRAFFIC DIRECTION
- CLEARANCE DIMENSION TAKEN FROM HSIS; MEASUREMENT TAKEN 7/25/2014 LOCATION PER EXISTING PLANS.
- 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.
- (2) TEMPORARY CONCRETE BARRIER, NOT A BRIDGE ITEM
- FULL DEPTH DECK REPAIR REPAIR AREAS ARE APPROXIMATE AND ARE BASED ON THE LEVEL 2 AND LEVEL 3 DECK INFRARED THERMOGRAPHIC SURVEYS. EXACT AREAS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. NO FULL-DEPTH DECK REPAIRS WITHIN 3' OF PIER C/L.
- (S) "TEMPORARY SPAN SUPPORT" REQUIRED DURING DECK PREPARATION TYPE 1 AND TYPE 2 AND FULL-DEPTH DECK REPAIR. SUPPORT TO REMAIN UNTIL REPAIR CONCRETE HAS REACHED REQUIRED STRENGTH. DESIGN SUPPORT TO SUSTAIN 290 KIPS SERVICE DEAD LOAD AND CONSTRUCTION LOADS, EACH SUPPORT.
- (P) "TEMPORARY PIER SUPPORT" REQUIRED DURING DECK PREPARATION TYPE 1 AND TYPE 2 WITHIN 8 FEET OF C/L PIER. SUPPORT TO REMAIN UNTIL REPAIR CONCRETE HAS REACHED REQUIRED STRENGTH. DESIGN SUPPORT TO SUSTAIN 85 KIPS SERVICE DEAD LOAD AND CONSTRUCTION LOADS, EACH SUPPORT.

TRAFFIC DATA

INTERCHANGE RD. SB

EXISTING A.A.D.T. = 4,167 (2019)
FUTURE A.A.D.T. = 4,600 (2040)
R.D.S. = 35 M.P.H.

STH 190/CAPITOL DR.

EXISTING A.A.D.T. = 51,000 (2019)
FUTURE A.A.D.T. = 56,300 (2040)
R.D.S. = 50 M.P.H.

DESIGN DATA

LIVE LOAD

DESIGN LOADING: HS20
INVENTORY RATING: HS20
OPERATING RATING: HS34
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT ..... f'y = 60,000 psi
CONCRETE MASONRY OVERLAY DECKS ..... f'c = 4,000 psi

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES AND QUANTITIES
3. LONG. FULL-DEPTH DECK REPAIR
4. GALVANIC ANODES
5. LEVEL 2 INFRARED THERMOGRAPHIC DECK SURVEY
6. LEVEL 3 INFRARED THERMOGRAPHIC DECK SURVEY

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 SDR 08/18/23
CHIEF STRUCTURES DESIGN ENGINEER — DATE

WISCONSIN
PATRICK J. CASHIN
27764
MILWAUKEE, WI
8/9/2023
PROFESSIONAL ENGINEER

Patrick J. Cashin

STRUCTURE B-40-331

INTERCHANGE ROAD SB OVER STH 190

COUNTY	CITY
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JWO	EAJ	JWO	EAJ

GENERAL PLAN AND ELEVATION

SHEET 1 OF 6

225

8

8

STATE PROJECT NUMBER
1100-20-74

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

"PROTECTIVE SURFACE TREATMENT" TO BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

"PROTECTIVE SURFACE TREATMENT RESEAL" TO BE APPLIED TO THE TOP AND VERTICAL FACES OF THE EXISTING BRUSH CURBS.

CLEAN AND APPLY PIGEMENTED SURAFCE SEALER TO THE TOP AND INSIDE FACES AND EXPOSED ENDS OF THE EXISTING PARAPETS. PAID FOR UNDER "PIGMENTED SURAFCE SEALER RESEAL".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE LEVEL 2 AND LEVEL 3 DECK INFRARED THERMOGRAPHIC SURVEY AND AS DETERMINED BY THE ENGINEER. NO FULL-DEPTH DECK REPAIRS WITHIN 3' OF PIER C/L.

CONFIRM THAT "PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2" REMOVALS TO SOUND CONCRETE RESULT IN ROUGHENED SURFACE OF 1/4" MINIMUM AMPLITUDE.

FILL "FULL-DEPTH DECK REPAIR" AREAS WITH "CONCRETE MASONRY BRIDGES" FROM BOTTOM OF SLAB TO 1" BELOW THE TOP TRANSVERSE REINFORCING BARS. LEAVE TOP OF CONCRETE AS A ROUGHENED CONSTRUCTION JOINT. TOP LAYER OF "FULL-DEPTH DECK REPAIR" AREAS TO BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

DECK PREPARATION AREAS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

"CONCRETE MASONRY BRIDGES" IN "FULL-DEPTH DECK REPAIR" MUST REACH 3,500 PSI COMPRESSIVE STRENGTH PRIOR TO PLACING THE CONCRETE OVERLAY.

UNDERSIDE OF DECK REPAIRS TO BE ADDRESSED AS FOLLOWS. PERFORM "DECK PREPARATION TYPE 1", "DECK PREPARATION TYPE 2" AND "FULL-DEPTH DECK REPAIR" FIRST. "REMOVING LOOSE CONCRETE" TO BE USED FOR AREAS WHERE LONGITUDINAL SLAB REINFORCEMENT IS EXPOSED IN THE FINAL CONDITION FOR NO MORE THAN 3' IN LENGTH AND FOR NO MORE THAN 50% OF THE BAR CIRCUMFERENCE. USE "CONCRETE SURFACE REPAIR" FOR REMAINING DEFECTS NOT ADDRESSED BY "FULL-DEPTH DECK REPAIR" OR "REMOVING LOOSE CONCRETE". LOCATIONS AND TYPES OF REPAIRS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

LOCATIONS OF THE FOLLOWNG 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.

"EMBEDDED GALVANIC ANODES" TO PAID FOR SEPARATELY. QUANTITIES SHOWN IN THE QUATITIES TABLE ARE APPROXIMATE. INCLUDE "EMBEDDED GALVANIC ANODES" AT THE FOLLOWING LOCATIONS.
- - ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS
- - CONCRETE SURFACE REPAIRS ON THE UNDERSIDE OF SLAB
- - BOTTOM OF FULL-DEPTH DECK REPAIRS

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

AT "CURB REPAIR" REMOVE CONCRETE TO SOUND CONCRETE OR AT LEAST 1" BEHIND THE EXISITING REINFORCING STEEL.

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

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 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

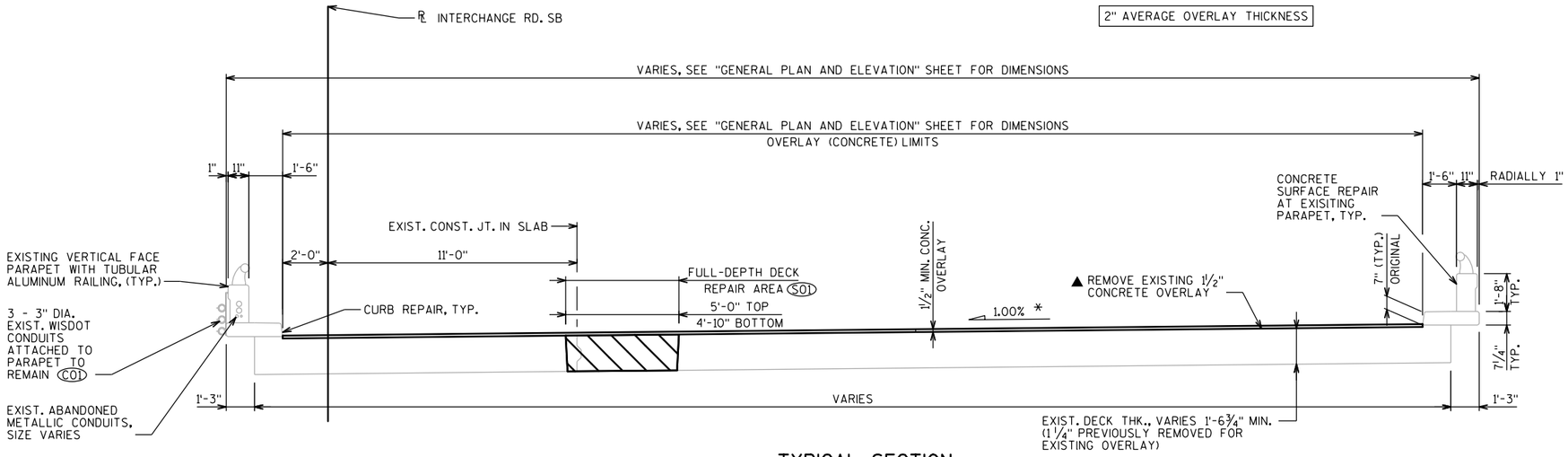
ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.

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.

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.



TYPICAL SECTION
(LOOKING NORTH)

GENERAL NOTES CONT.

PROPOSED ROADWAY STAGING CALLS FOR BRIDGE CLOSURE DURING OVERLAY AND SLAB WORK.

REGULATED ASBESTOS CONTAINING MATERIAL WAS FOUND ON THIS STRUCTURE IN THE GASKETS UNDER THE TUBULAR RAILING ATTACHMENT PLATES ON THE CONCRETE PARAPETS. SEE SPECIAL PROVISIONS FOR REMOVAL OF ASBESTOS CONTAINING MATERIAL ON THE PARAPETS.

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL	
203.0211.S.0002	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-40-331	EACH	1	
502.0100	CONCRETE MASONRY BRIDGES	CY	18	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	360	
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	55	
502.3215	PROTECTIVE SURFACE TREATMENT RESEAL	SY	44	
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	7,420	
509.0301	PREPARATION DECKS TYPE 1	SY	220	
509.0302	PREPARATION DECKS TYPE 2	SY	114	
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	360	
509.1200	CURB REPAIR	LF	40	
509.1500	CONCRETE SURFACE REPAIR	SF	165	(0)
509.2000	FULL-DEPTH DECK REPAIR	SY	45	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	36	
509.9005.S.0002	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-331	SY	360	
SPV.0060.4000	EMBEDDED GALVANIC ANODES	EACH	215	(0)
SPV.0060.4052	TEMPORARY SPAN SUPPORT B-40-331	EACH	2	
SPV.0060.4062	TEMPORARY PIER SUPPORT B-40-331	EACH	2	
SPV.0165.4000	REMOVING LOOSE CONCRETE	SF	50	
	NON-BID ITEMS			

ALL ITEMS ARE CATEGORY 2010

(0) ESTIMATED BREAKDOWN OF QUANTITIES (FOR INFORMATION ONLY)
CONCRETE SURFACE REPAIR: S. ABUT. = 0 SF, PIER = 30 SF, N. ABUT. = 15 SF, UNDERSIDE OF DECK = 100 SF, PARAPETS = 20 SF
EMEDDED GALVANIC ANODES: S. ABUT. = 0 EA, PIER = 25 EA, N. ABUT. = 15 EA, UNDERSIDE OF DECK = 175 EA

LEGEND

- * PROPOSED TO MATCH EXISTING
- ▲ REMOVE EXISTING CONCRETE MASONRY OVERLAY FROM THE ENTIRE BRIDGE SLAB UNDER THE BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY B-40-331".
- (C01) EXISTING 1 - 3" DIA. LIGHTING CONDUIT AND 2 - 3" DIA. SIGNALS CONDUITS TO REMAIN IN SERVICE AT ALL TIMES DURING CONSTRUCTION.
- (S01) LOCATION SHOWN FOR FULL-DEPTH DECK REPAIR IS APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

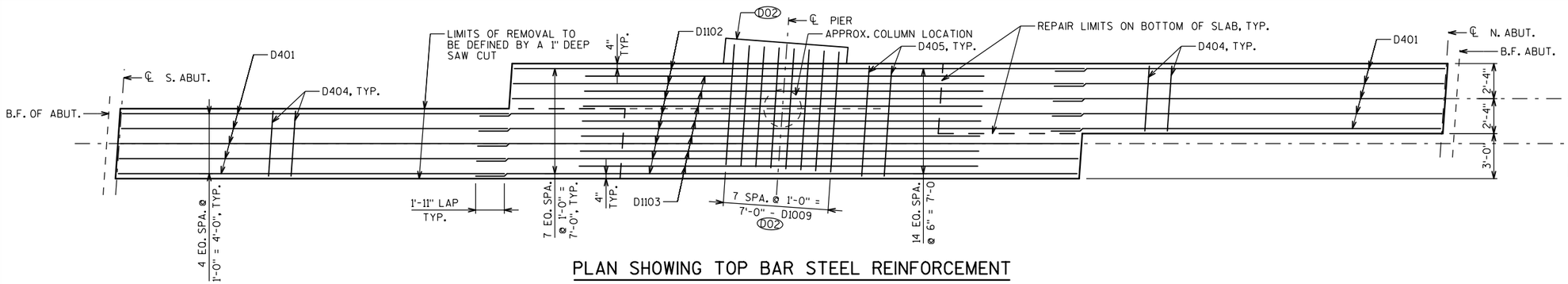
STRUCTURE B-40-331

DRAWN BY JWO/HDA | PLANS CK'D. EAJ/PJC

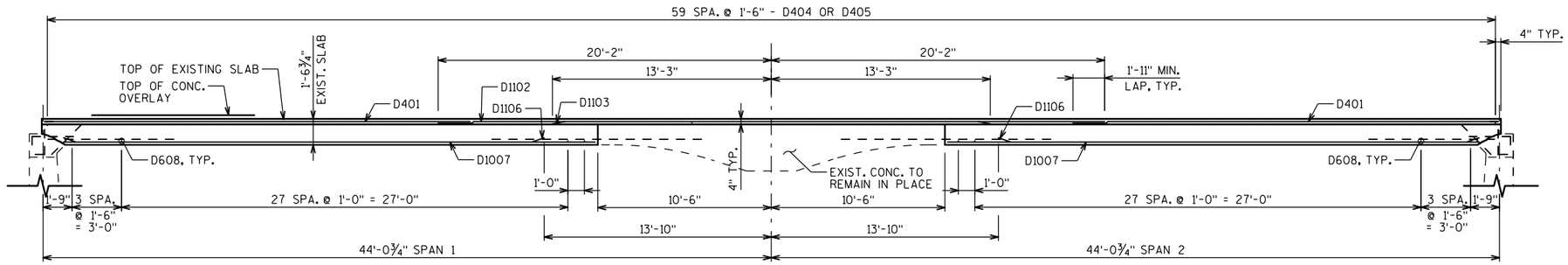
TYPICAL SECTION, GENERAL NOTES AND QUANTITIES

SHEET 2

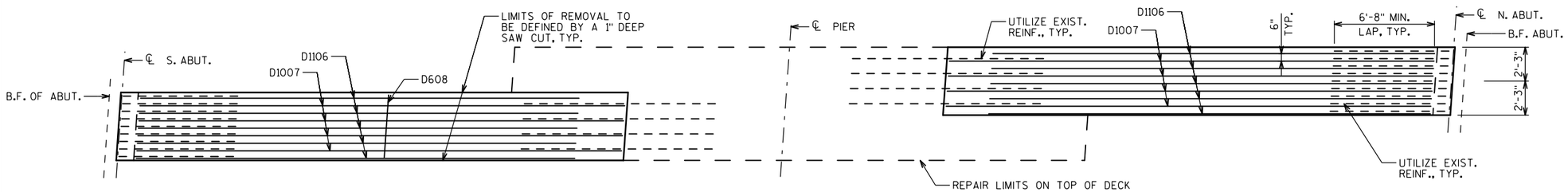
STATE PROJECT NUMBER
1100-20-74



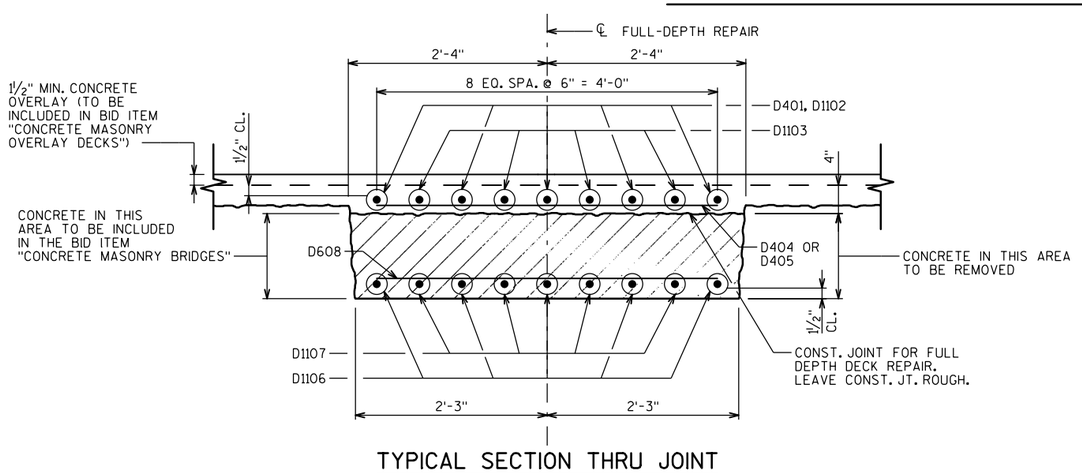
PLAN SHOWING TOP BAR STEEL REINFORCEMENT



LONGITUDINAL SECTION



PLAN SHOWING BOTTOM BAR STEEL REINFORCEMENT



TYPICAL SECTION THRU JOINT

BILL OF BARS

BILL OF BARS INCLUDES ADDITIONAL LONGITUDINAL BARS TO PROVIDE FLEXIBILITY IN MATCHING EXISITNG BAR SIZES AND SPACING

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION
D401		12	25'-9"		SLAB - TOP LONG.
D1102		9	40'-4"		SLAB - TOP LONG. - PIER
D1103		8	26'-6"		SLAB - TOP LONG. - PIER
D404		36	4'-4"		SLAB - TOP TRANS.
D405		24	7'-4"		SLAB - TOP TRANS. - PIER
D1106		12	29'-2"		SLAB - BOT. LONG.
D1007		10	32'-1"		SLAB - BOT. LONG.
D608		64	4'-4"		SLAB - BOT. TRANS.
D1009		8	8'-0"		SLAB - TOP TRANS. - PIER

NOTES

PRESERVE AND UTILIZE EXISTING TRANSVERSE REINFORCEMENT BARS (NOT SHOWN IN DETAILS FOR CLARITY) UNLESS NOTED OTHERWISE.

EXISTING SLAB THICKNESS VARIES. THICKNESS SHOWN ASSUMES ORIGINAL 1'-8" SLAB MINUS 1¼" PREVIOUSLY REMOVED FOR PRIOR OVERLAY.

REPAIR WIDTH SHOWN IS BASED ON INFRARED THERMOGRAPHIC DECK SURVEY DATA. IF REPAIR LIMITS AND WIDTH ARE INCREASED AS DETERMINED BY THE ENGINEER, PROVIDE ADDITIONAL REINFORCEMENT PER THE LAYOUT SCHEME SHOWN IN THESE DETAILS.

PLACE "EMBEDDED GALVANIC ANODES" AT BOTTOM MAT OF REINFORCING STEEL FOR FULL-DEPTH REPAIR AREAS. PAID FOR SEPARATELY.

TEMPORARY SHORING OF THE EXISTING SLAB IN-SPAN AND AT THE PIER REQUIRED. SEE "GENERAL PLAN AND ELEVATION" SHEET AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION. PAID FOR UNDER BID ITEMS "TEMPORARY SPAN SUPPORT B-40-331" AND "TEMPORARY PIER SUPPORT B-40-331".

(D001) REPAIR OFFSET BETWEEN SPANS IS BASED ON INFRARED THERMOGRAPHIC DECK SURVEY DATA. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.

(D002) REPLACE EXISTING 8'-0" LONG #10 TRANSVERSE BARS CENTERED OVER COLUMN (PLACED ALTERNATELY WITH EXISTING #9 TRANSVERSE BARS, NOT SHOWN). FOR ANY PORTION OF BARS EXTENDING BEYOND THE LONGITUDINAL FULL-DEPTH DECK REPAIR DETAIL LIMITS, USE PREPARATION DECKS TYPE 2 TO EXPOSE THE EXISTING BARS FOR REMOVAL AND REPLACEMENT. REMOVAL DEPTH TO 1" BELOW BOTTOM LAYER OF TOP TRANSVERSE BARS. ADDITIONAL DECK REMOVAL PAID FOR UNDER BID ITEM "PREPARATION DECKS TYPE 2".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

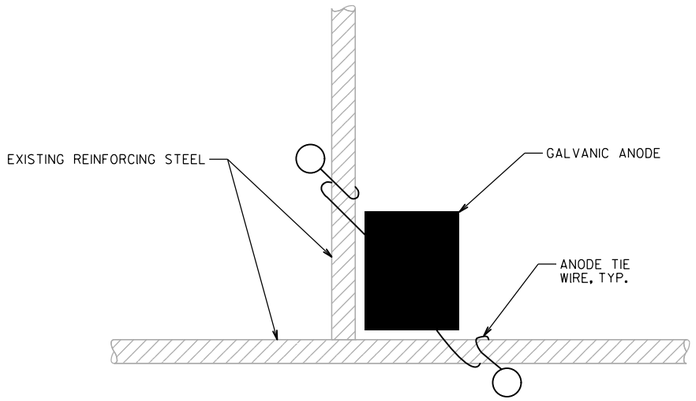
STRUCTURE B-40-331

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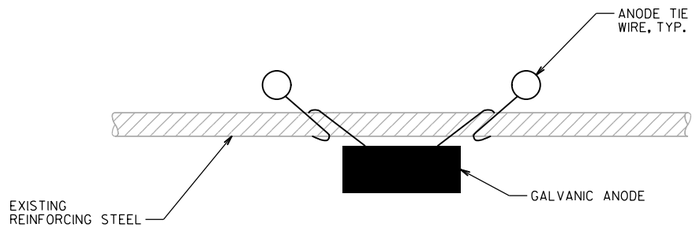
LONG. FULL-DEPTH DECK REPAIR

SHEET 3

STATE PROJECT NUMBER
1100-20-74

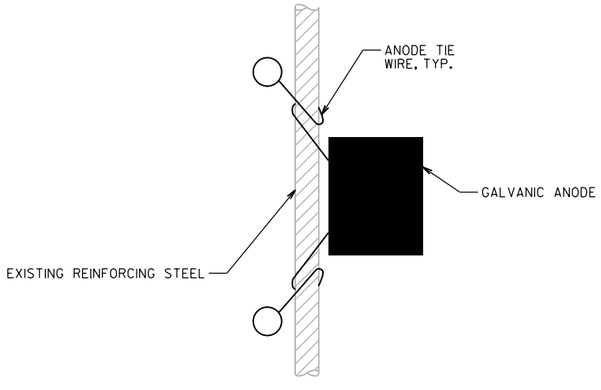


TYPICAL INSTALLATION AT BAR STEEL INTERSECTION



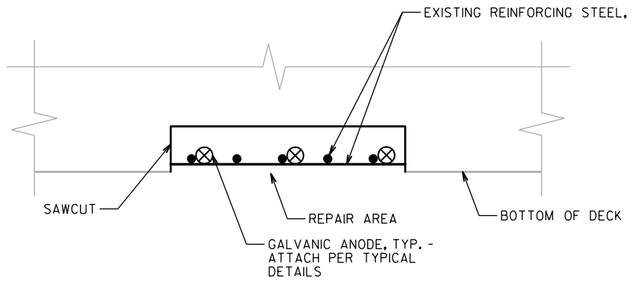
TYPICAL INSTALLATION BELOW BAR STEEL

(HORIZONTAL)

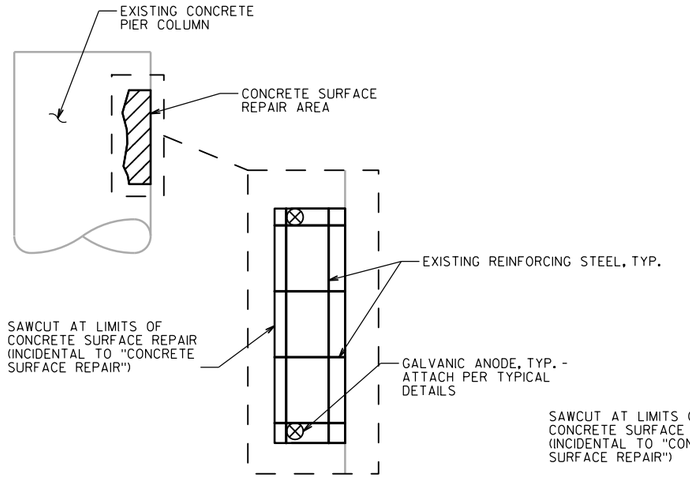


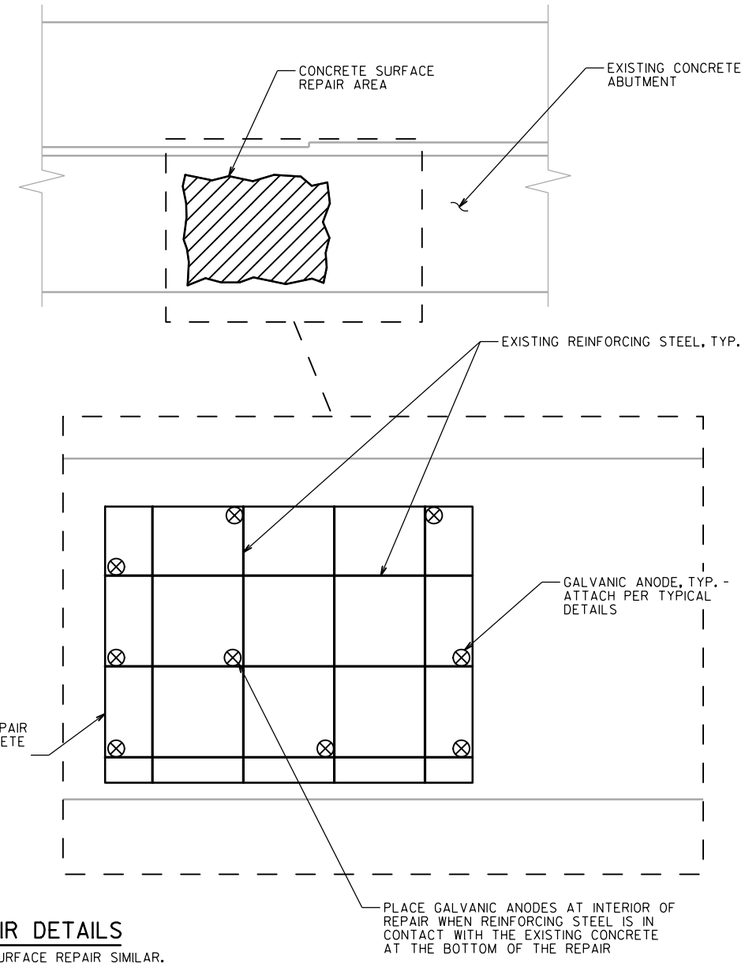
TYPICAL INSTALLATION BESIDE BAR STEEL

(VERTICAL)



PART. SECTION BOTTOM OF SLAB REPAIR DETAIL





TYPICAL STRUCTURE REPAIR DETAILS

VERTICAL SURFACE REPAIR SHOWN, HORIZONTAL SURFACE REPAIR SIMILAR.

NOTES

SURFACE REPAIR AREAS WITH CATHODIC PROTECTION ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. THE PLAN QUANTITY FOR THE BID ITEM "EMBEDDED GALVANIC ANODES" IS BASED ON A MAXIMUM SPACING OF 24-INCHES AROUND THE SURFACE REPAIR PERIMETER. THE ACTUAL QUANTITY SHALL BE BASED ON THE FIELD CONDITIONS AND AS RECOMMENDED BY THE GALVANIC ANODE SUPPLIER.

SURFACE REPAIRS SHALL BE FILLED WITH REPAIR MATERIALS COMPATIBLE WITH CATHODIC PROTECTION, AS RECOMMENDED BY THE ANODE SUPPLIER.

EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL AND CONCRETE TO PROVIDE SUFFICIENT ELECTRICAL CONNECTION AND BOND. CATHODIC PROTECTION PREPARATIONS ARE INCLUDED IN THE BID ITEM "EMBEDDED GALVANIC ANODES".

ANODES NEAREST TO EDGE OF REPAIR TO BE WITHIN 6" OF EDGE.

AFTER PLACEMENT, GALVANIC ANODES SHOULD MAINTAIN A MINIMUM TOP COVER OF 1½" AND A MINIMUM BOTTOM COVER OF ¾".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-331

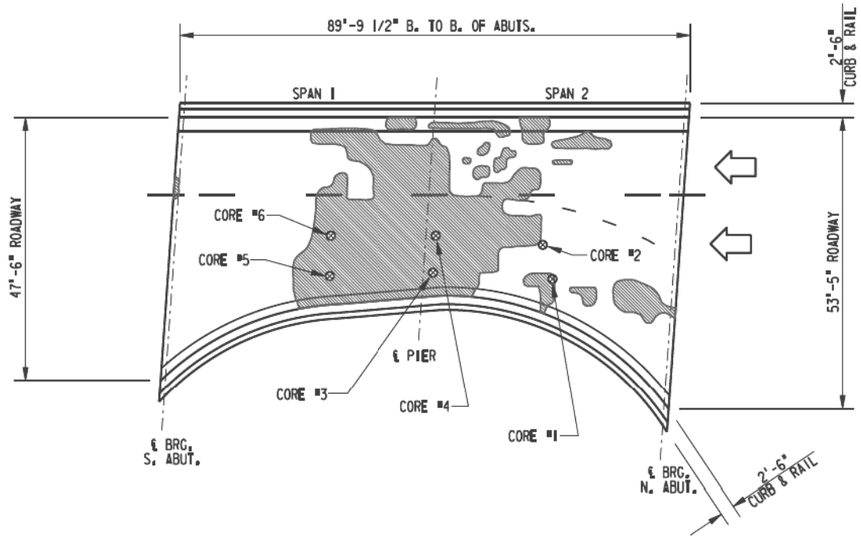
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GALVANIC ANODES

SHEET 4

STATE PROJECT NUMBER

1100-20-74



PLAN

INFRARED THERMOGRAPHIC SURVEY RESULTS

FIELD OBSERVATIONS SUMMARY		STRUCTURE NO. B-40-331	
ITEM	UNIT	QUANT.	%
TOTAL AREA	ft^2	3238	
SHADE/DEBRIS	ft^2	0	
DELAMINATION	ft^2	1046	32.3
SPALL	ft^2	0	0
DEBOND	ft^2	0	0
ASPHALT PATCH	ft^2	0	0
PCC PATCH	ft^2	0	0

LEGEND: DELAMINATION, SPALL, DEBOND, ASPHALT PATCH, PCC PATCH, SHADE/DEBRIS

SCALE 0' 5' 10' 20'

SURFACE TYPE: CONCRETE OVERLAY
INFRARED INSPECTION DATE: 10/18/21
DECK CORING DATE: 12/2/22

AECOM

DATA COL. TC/DD
ANALYSIS TC
LAYD LDS
CHECKED BS

NO	REVISIONS	DSN	CHK	DATE

INFRARED THERMOGRAPHIC INVESTIGATION OF INTERCHANGE RD SB OVER STH 190-CAPITOL DR
STRUCTURE NO. B-40-331

PREPARED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

DATE 12/5/22
PROJECT NO 60661059
FILENAME B-40-331-IR.DGN
SHEET NO 1 OF 1
DRAWING NO

8

8

NOTES:

LEVEL 2 (TOP OF DECK) INFARED INSPECTION PERFORMED BY AECOM ON 10/18/2021.

DEFECT AREAS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. THE FIELD ENGINEER WILL SOUND THE DECK AND MARK AREAS IN THE FIELD.

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-331

DRAWN BY HDA | PLANS CK'D. PJC

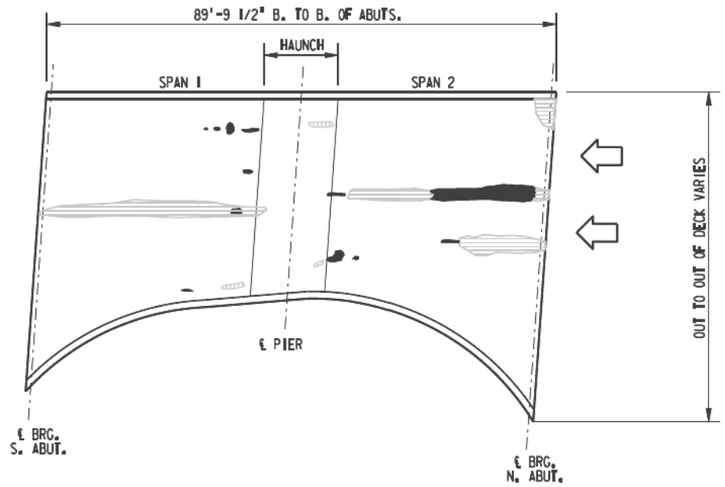
LEVEL 2 INFRARED THERMOGRAPHIC DECK SURVEY

SHEET 5

FILE NAME : \\milw00\ingrproj\79555\b1\1100-20-74\B-40-331\cds\331_080202_irt2.dgn PLOT DATE : 7/20/2023 2:35:26 PM PLOT BY : awyckoff PLOT NAME : $FILE$ PLOT SCALE : 2:1

STATE PROJECT NUMBER

1100-20-74



PLAN - VIEWED FROM TOP

DECK UNDERSIDE VISUAL SURVEY RESULTS

FIELD OBSERVATIONS SUMMARY		STRUCTURE NO. B-40-331	
ITEM	UNIT	QUANT.	%
TOTAL AREA	ft^2	3734	
DELAMINATION	ft^2	0	0
SPALL	ft^2	66	1.8
MOISTURE	ft^2	0	0
STAINING	ft^2	7	0.2
HONEY COMBING	ft^2	0	0
PCC PATCH	ft^2	179	4.8

LEGEND: DELAMINATION, SPALL, MOISTURE, STAINING, HONEY COMBING, PCC PATCH

SCALE 0' 5' 10' 20'

UNDERSIDE INSPECTION DATE: 12/15/22, 3:30 PM

DATA COL. TT
ANALYSIS DS
CADD DS
CHECKED BS

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NO. | REVISIONS | DRN. | CHK. | DATE

AECOM

DECK UNDERSIDE VISUAL SURVEY OF INTERCHANGE RD SB OVER STH 190-CAPITOL DR STRUCTURE NO. B-40-331

PREPARED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION BUREAU OF STRUCTURES

DATE 12/16/22
PROJECT NO 60661059
FILENAME B-40-331-BOT.DGN
SHEET NO 1 OF 1
DRAWING NO

NOTES:

LEVEL 3 (UNDERSIDE OF DECK) INFARED INSPECTION PERFORMED BY AECOM ON 12/15/2022.

DEFECT AREAS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. THE FIELD ENGINEER WILL SOUND THE DECK AND MARK AREAS IN THE FIELD.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-331

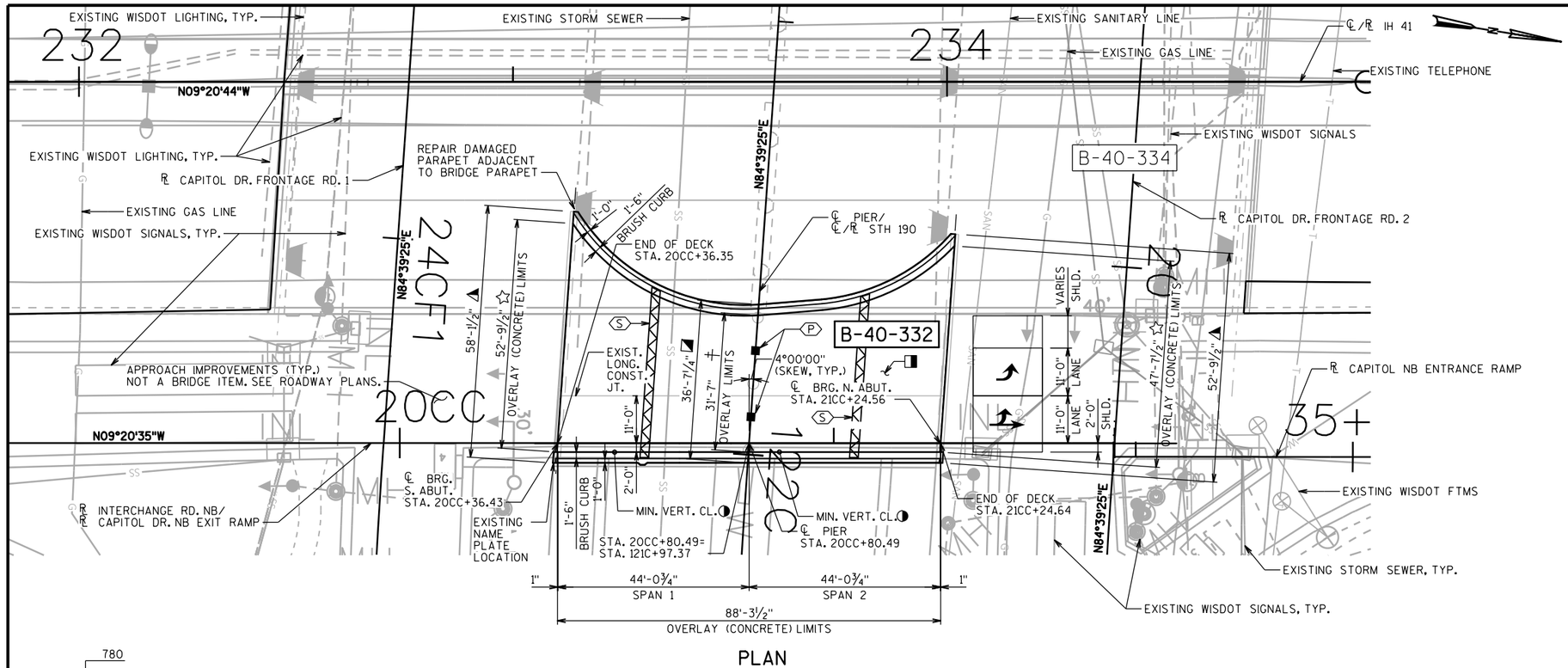
DRAWN BY HDA | PLANS CK'D. PJC

LEVEL 3 INFRARED THERMOGRAPHIC DECK SURVEY

SHEET 6

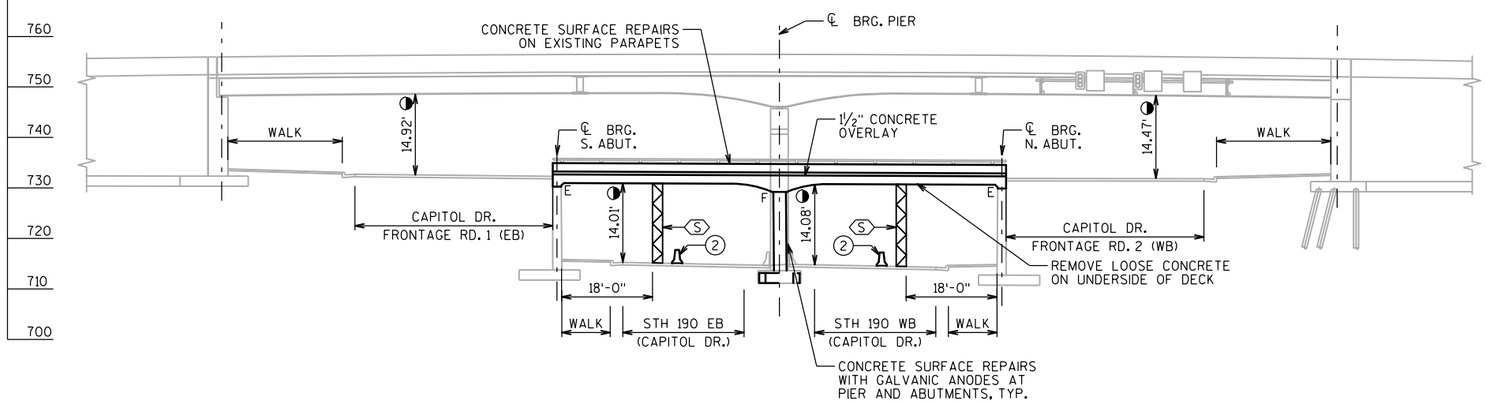
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STATE PROJECT NUMBER
1100-20-74



PLAN

(CONCRETE OVERLAY OF 2 SPAN HAUNCHED CONCRETE SLAB)



ELEVATION

(LOOKING WEST)

LEGEND

- TRAFFIC DIRECTION
- CLEARANCE DIMENSION TAKEN FROM HSIS; MEASUREMENT TAKEN 7/25/2014 LOCATION PER EXISTING PLANS.
- 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
- (2) TEMPORARY CONCRETE BARRIER, NOT A BRIDGE ITEM
- FULL DEPTH DECK REPAIR REPAIR AREAS ARE APPROXIMATE AND ARE BASED ON THE LEVEL 2 AND LEVEL 3 DECK INFRARED THERMOGRAPHIC SURVEYS. EXACT AREAS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. NO FULL-DEPTH DECK REPAIRS WITHIN 3' OF PIER C/L.
- (S) "TEMPORARY SPAN SUPPORT" REQUIRED DURING DECK PREPARATION TYPE 1 AND TYPE 2 AND FULL-DEPTH DECK REPAIR. SUPPORT TO REMAIN UNTIL REPAIR CONCRETE HAS REACHED REQUIRED STRENGTH. DESIGN SUPPORT TO SUSTAIN 290 KIPS SERVICE DEAD LOAD AND CONSTRUCTION LOADS, EACH SUPPORT.
- (P) "TEMPORARY PIER SUPPORT" REQUIRED DURING DECK PREPARATION TYPE 1 AND TYPE 2 WITHIN 8 FEET OF C/L PIER. SUPPORT TO REMAIN UNTIL REPAIR CONCRETE HAS REACHED REQUIRED STRENGTH. DESIGN SUPPORT TO SUSTAIN 85 KIPS SERVICE DEAD LOAD AND CONSTRUCTION LOADS, EACH SUPPORT.

TRAFFIC DATA

INTERCHANGE RD. NB

EXISTING A.A.D.T. = 12,753 (2019)
FUTURE A.D.T. = 15,200 (2040)
R.D.S. = 35 M.P.H.

STH 190-CAPITOL DR.

EXISTING A.A.D.T = 51,000 (2019)
FUTURE A.A.D.T. = 56,300 (2040)
R.D.S. = 50 M.P.H.

DESIGN DATA

LIVE LOAD

DESIGN LOADING: HS20
INVENTORY RATING: HS20
OPERATING RATING: HS34
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT ..... f'y = 60,000 psi
CONCRETE MASONRY OVERLAY DECKS ..... f'c = 4,000 psi

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES AND QUANTITIES
3. PARAPET REPAIRS
4. LONG. FULL-DEPTH DECK REPAIR
5. GALVANIC ANODES
6. LEVEL 2 INFRARED THERMOGRAPHIC DECK SURVEY
7. LEVEL 3 INFRARED THERMOGRAPHIC DECK SURVEY

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 _____ SDR 08/18/23
CHIEF STRUCTURES DESIGN ENGINEER — DATE

WISCONSIN
PATRICK J. CASHIN
27764
MILWAUKEE, WI
8/9/2023
PROFESSIONAL ENGINEER

Patrick J. Cashin

STRUCTURE B-40-332

INTERCHANGE ROAD NB OVER STH 190

COUNTY	CITY
MILWAUKEE	WAUWATOSA

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JWO	EAJ	JWO	EAJ

GENERAL PLAN AND ELEVATION

SHEET 1 OF 7

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PLOT DATE : 8/8/2023 6:02:47 PM
PLOT BY : HAnders
PLOT SCALE : 30:1

STATE PROJECT NUMBER
1100-20-74

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

"PROTECTIVE SURFACE TREATMENT" TO BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

"PROTECTIVE SURFACE TREATMENT RESEAL" TO BE APPLIED TO THE TOP AND VERTICAL FACES OF THE EXISTING BRUSH CURBS.

CLEAN AND APPLY PIGMENTED SURFACE SEALER TO THE TOP AND INSIDE FACES AND EXPOSED ENDS OF THE EXISTING PARAPETS. 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 LEVEL 2 AND LEVEL 3 DECK INFRARED THERMOGRAPHIC SURVEY AND AS DETERMINED BY THE ENGINEER. NO FULL-DEPTH DECK REPAIRS WITHIN 3' OF PIER C/L.

CONFIRM THAT "PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2" REMOVALS TO SOUND CONCRETE RESULT IN ROUGHENED SURFACE OF 1/4" MINIMUM AMPLITUDE.

FILL "FULL-DEPTH DECK REPAIR" AREAS WITH "CONCRETE MASONRY BRIDGES" FROM BOTTOM OF SLAB TO 1" BELOW THE TOP TRANSVERSE REINFORCING BARS. LEAVE TOP OF CONCRETE AS A ROUGHENED CONSTRUCTION JOINT. TOP LAYER OF "FULL-DEPTH DECK REPAIR" AREA TO BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

DECK PREPARATION AREAS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

"CONCRETE MASONRY BRIDGES" IN "FULL-DEPTH DECK REPAIR" MUST REACH 3,500 PSI COMPRESSIVE STRENGTH PRIOR TO PLACING THE CONCRETE OVERLAY.

UNDERSIDE OF DECK REPAIRS TO BE ADDRESSED AS FOLLOWS. PERFORM "DECK PREPARATION TYPE 1", "DECK PREPARATION TYPE 2" AND "FULL-DEPTH DECK REPAIR" FIRST. "REMOVING LOOSE CONCRETE" TO BE USED FOR AREAS WHERE LONGITUDINAL SLAB REINFORCEMENT IS EXPOSED IN THE FINAL CONDITION FOR NO MORE THAN 3' IN LENGTH AND FOR NO MORE THAN 50% OF THE BAR CIRCUMFERENCE. USE "CONCRETE SURFACE REPAIR" FOR REMAINING DEFECTS NOT ADDRESSED BY "FULL-DEPTH DECK REPAIR" OR "REMOVING LOOSE CONCRETE". LOCATIONS AND TYPES OF REPAIRS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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 COCNCRETE
- -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.

"EMBEDDED GALVANIC ANODES" TO PAID FOR SEPARATELY. QUANTITIES SHOWN IN THE QUATITIES TABLE ARE APPROXIMATE. INCLUDE "EMBEDDED GALVANIC ANODES" AT THE FOLLOWING LOCATIONS.
- - ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS
- - CONCRETE SURFACE REPAIRS ON THE UNDERSIDE OF SLAB
- - BOTTOM OF FULL-DEPTH DECK REPAIRS

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

AT "CURB REPAIR" REMOVE CONCRETE TO SOUND CONCRETE OR AT LEAST 1" BEHIND THE EXISTING REINFORCING STEEL.

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

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 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

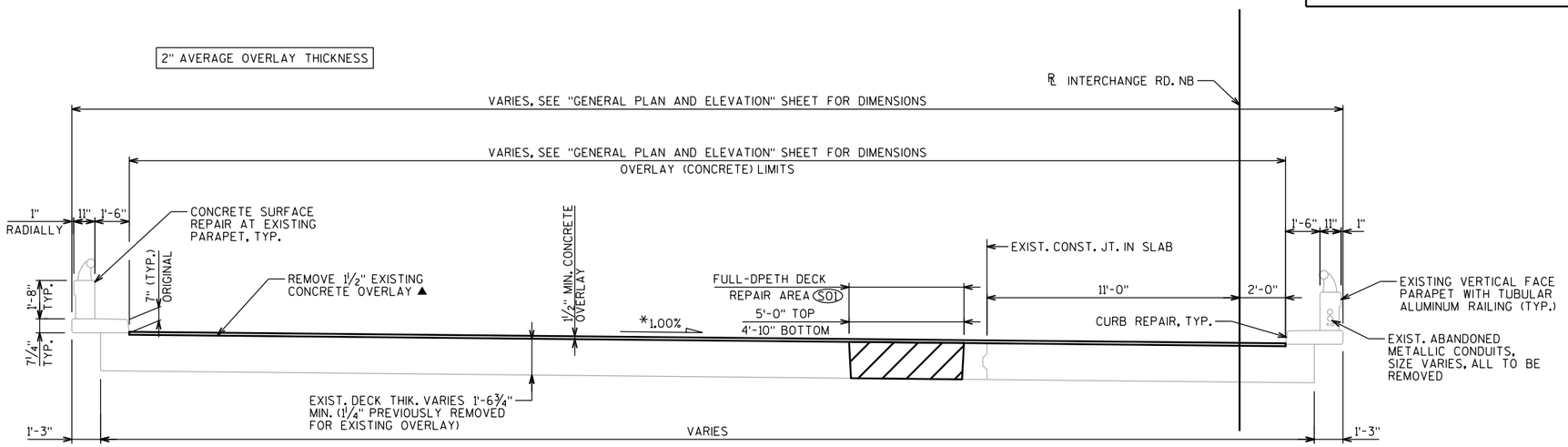
ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.

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.

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.



TYPICAL SECTION

(LOOKING NORTH)

GENERAL NOTES CONT.

PROPOSED ROADWAY STAGING CALLS FOR BRIDGE CLOSURE DURING OVERLAY AND SLAB WORK.

REGULATED ASBESTOS CONTAINING MATERIAL WAS FOUND ON THIS STRUCTURE IN THE GASKETS UNDER THE TUBULAR RAILING ATTACHMENT PLATES ON THE CONCRETE PARAPETS. SEE SPECIAL PROVISIONS FOR REMOVAL OF ASBESTOS CONTAINING MATERIAL ON THE PARAPETS.

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL	
203.0211.S.0003	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-40-332	EACH	1	
502.0100	CONCRETE MASONRY BRIDGES	CY	16	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	361	
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	55	
502.3215	PROTECTIVE SURFACE TREATMENT RESEAL	SY	44	
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	5,330	
509.0301	PREPARATION DECKS TYPE 1	SY	205	
509.0302	PREPARATION DECKS TYPE 2	SY	107	
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	361	
509.1200	CURB REPAIR	LF	50	
509.1500	CONCRETE SURFACE REPAIR	SF	190	(0)
509.2000	FULL-DEPTH DECK REPAIR	SY	40	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	32	
509.9005.S.0003	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-332	SY	361	
SPV.0060.4000	EMBEDDED GALVANIC ANODES	EACH	180	(0)
SPV.0060.4053	TEMPORARY SPAN SUPPORT B-40-332	EACH	2	
SPV.0060.4063	TEMPORARY PIER SUPPORT B-40-332	EACH	2	
SPV.0165.4000	REMOVING LOOSE CONCRETE	SF	50	
	NON-BID ITEMS			

ALL ITEMS ARE CATEGORY 2020

(0) ESTIMATED BREAKDOWN OF QUANTITIES (FOR INFORMATION ONLY)
CONCRETE SURFACE REPAIR: S. ABUT. = 10 SF, PIER = 45 SF, N. ABUT. = 10 SF, UNDERSIDE OF DECK = 100 SF, PARAPETS = 25 SF
EMEDDED GALVANIC ANODES: S. ABUT. = 10 EA, PIER = 25 EA, N. ABUT. = 10 EA, UNDERSIDE OF DECK = 135 EA

LEGEND

* PROPOSED TO MATCH EXISTING

▲ REMOVE EXISTING CONCRETE MASONRY OVERLAY FROM THE ENTIRE BRIDGE SLAB UNDER THE BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY B-40-332".

(S01) LOCATION SHOWN FOR FULL-DEPTH DECK REPAIR IS APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-332

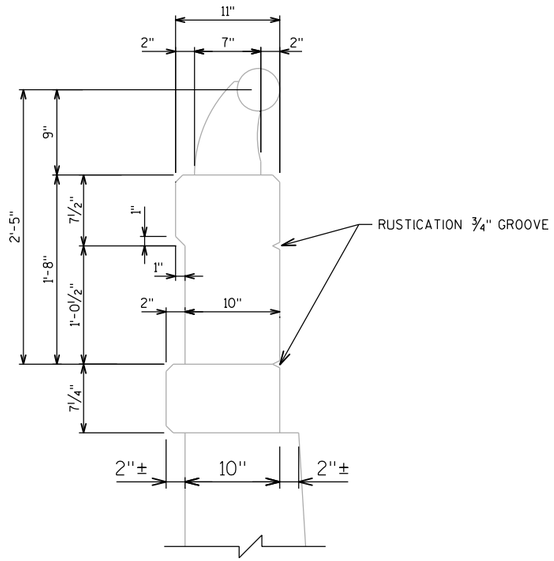
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TYPICAL SECTION, GENERAL NOTES AND QUANTITIES

SHEET 2

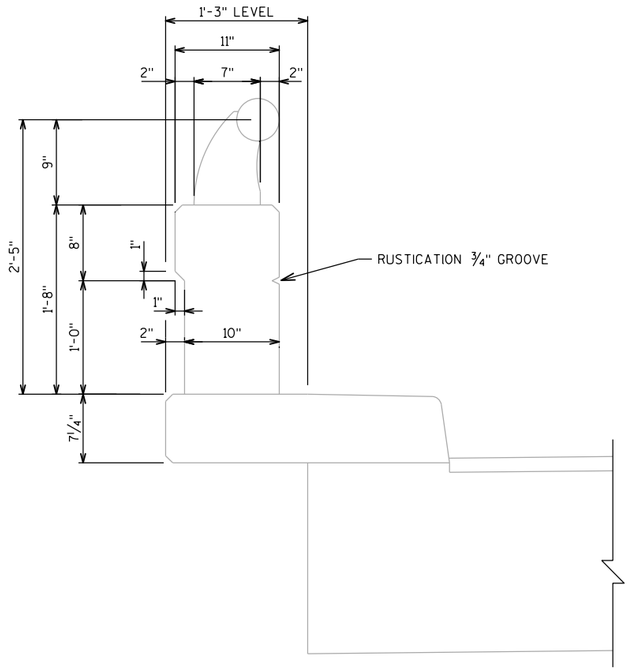
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PLOT BY : HAnders
PLOT NAME : $FILE$
PLOT SCALE : 6:1

STATE PROJECT NUMBER
1100-20-74



SECTION A-A

PARAPET SECTION AT RETAINING WALL R-40-43



SECTION B-B

PARAPET SECTION AT B-40-332 DECK SLAB

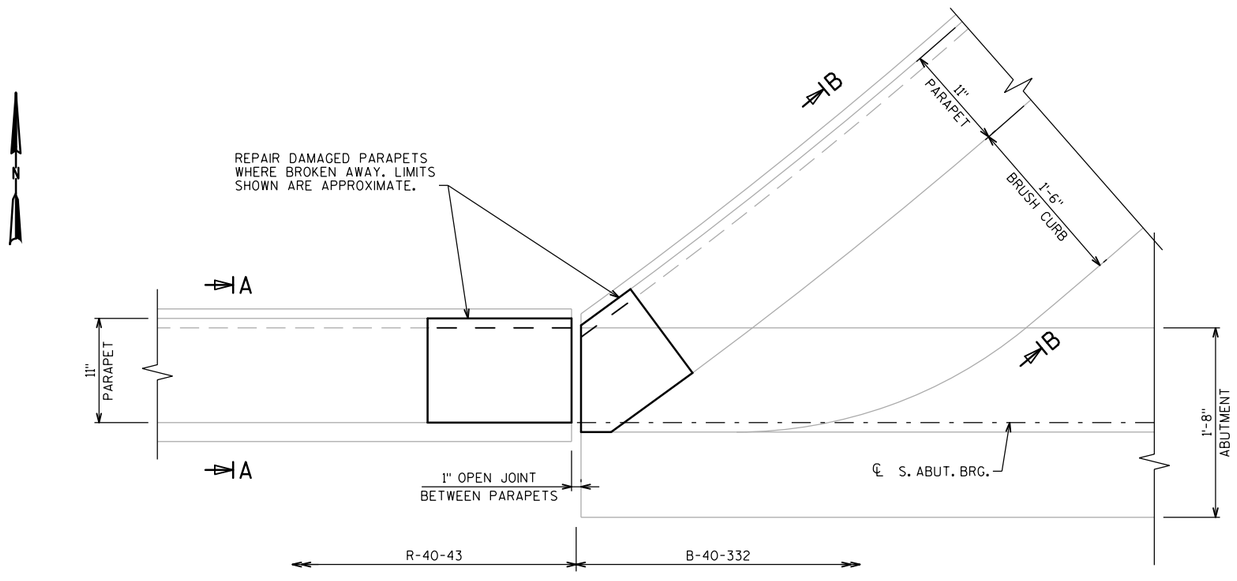
NOTES

REPAIR OF R-40-43 PARAPET INCLUDED WITH B-40-332.

PARAPET REPAIRS PAID FOR AS BID ITEM "CONCRETE SURFACE REPAIR".

DIMENSIONS SHOWN ARE PER EXISTING PLANS. MATCH EXISTING DIMENSIONS.

PRESERVE AND REUSE EXISTING REINFORCEMENT.



PLAN AT SW CORNER OF BRIDGE

REMOVAL AT EXIST. SOUTH ABUTMENT DIAPHRAGM

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-332

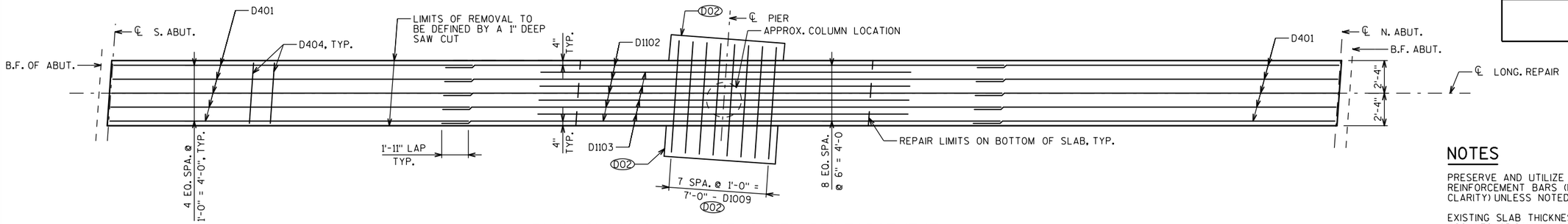
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PARAPET REPAIRS

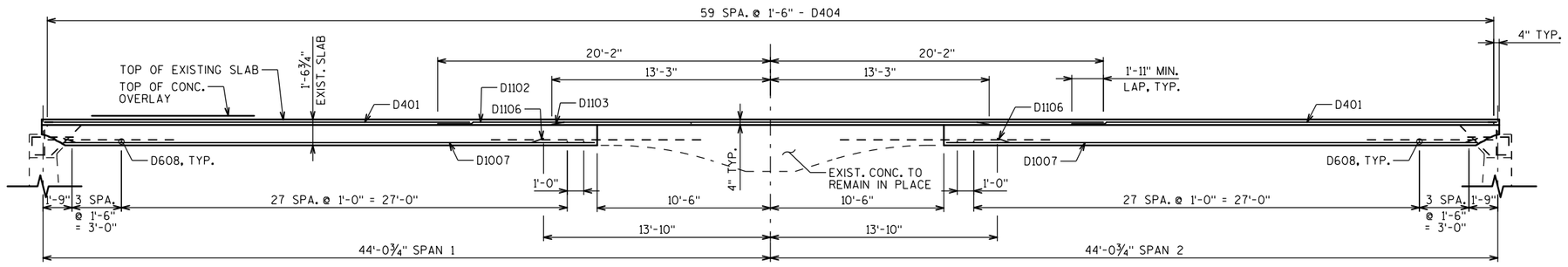
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PLOT BY : awyckoff
PLOT NAME : $FILE$
PLOT SCALE : 1.33333:1

STATE PROJECT NUMBER
1100-20-74



PLAN SHOWING TOP BAR STEEL REINFORCEMENT



LONGITUDINAL SECTION

NOTES

PRESERVE AND UTILIZE EXISTING TRANSVERSE REINFORCEMENT BARS (NOT SHOWN IN DETAILS FOR CLARITY) UNLESS NOTED OTHERWISE.

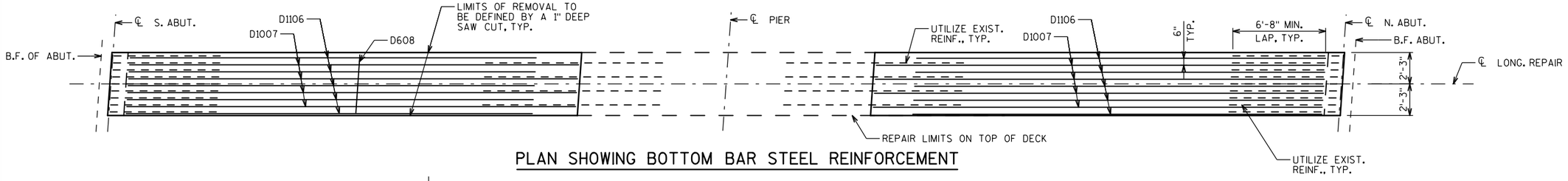
EXISTING SLAB THICKNESS VARIES. THICKNESS SHOWN ASSUMES ORIGINAL 1'-8" SLAB MINUS 1¼" PREVIOUSLY REMOVED FOR PRIOR OVERLAY.

REPAIR WIDTH SHOWN IS BASED ON INFRARED THERMOGRAPHIC DECK SURVEY DATA. IF REPAIR LIMITS AND WIDTH ARE INCREASED AS DETERMINED BY THE ENGINEER, PROVIDE ADDITIONAL REINFORCEMENT PER THE LAYOUT SCHEME SHOWN IN THESE DETAILS.

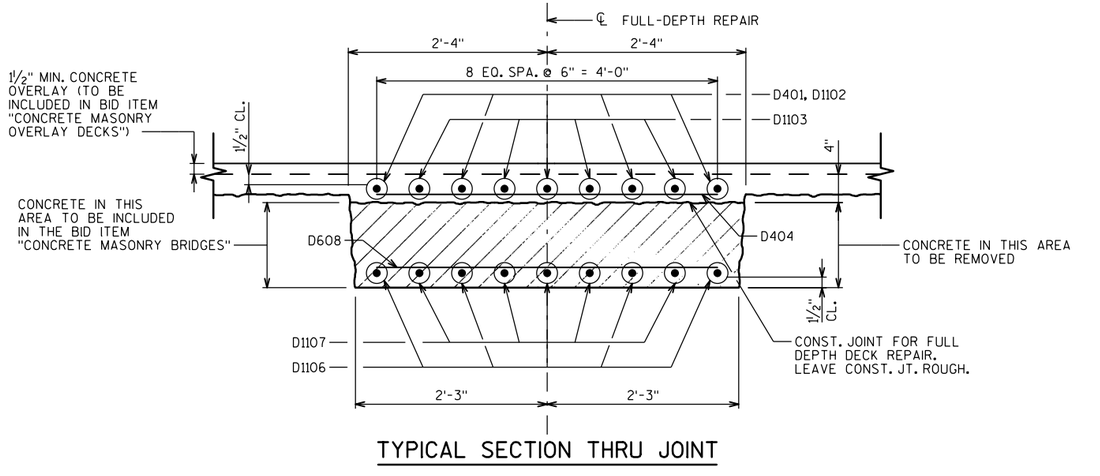
PLACE "EMBEDDED GALVANIC ANODES" AT BOTTOM MAT OF REINFORCING STEEL FOR FULL-DEPTH REPAIR AREAS. PAID FOR SEPARATELY.

TEMPORARY SHORING OF THE EXISTING SLAB IN-SPAN AND AT THE PIER REQUIRED. SEE "GENERAL PLAN AND ELEVATION" SHEET AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION. PAID FOR UNDER BID ITEMS "TEMPORARY SPAN SUPPORT B-40-332" AND "TEMPORARY PIER SUPPORT B-40-332".

D02 REPLACE EXISTING 8'-0" LONG #10 TRANSVERSE BARS CENTERED OVER COLUMN (PLACED ALTERNATELY WITH EXISTING #9 TRANSVERSE BARS, NOT SHOWN). FOR PORTIONS OF BARS EXTENDING BEYOND THE LONGITUDINAL FULL-DEPTH DECK REPAIR DETAIL LIMITS, USE PREPARATION DECKS TYPE 2 TO EXPOSE THE EXISTING BARS FOR REMOVAL AND REPLACEMENT. REMOVAL DEPTH TO 1" BELOW BOTTOM LAYER OF TOP TRANSVERSE BARS. ADDITIONAL DECK REMOVAL PAID FOR UNDER BID ITEM "PREPARATION DECKS TYPE 2".



PLAN SHOWING BOTTOM BAR STEEL REINFORCEMENT



TYPICAL SECTION THRU JOINT

BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION
D401		10	25'-9"		SLAB - TOP LONG.
D1102		5	40'-4"		SLAB - TOP LONG. - PIER
D1103		4	26'-6"		SLAB - TOP LONG. - PIER
D404		60	4'-4"		SLAB - TOP TRANS.
					NOT USED
D1106		10	29'-2"		SLAB - BOT. LONG.
D1007		8	32'-1"		SLAB - BOT. LONG.
D608		64	4'-4"		SLAB - BOT. TRANS.
D1009		8	8'-0"		SLAB - TOP TRANS. - PIER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-332

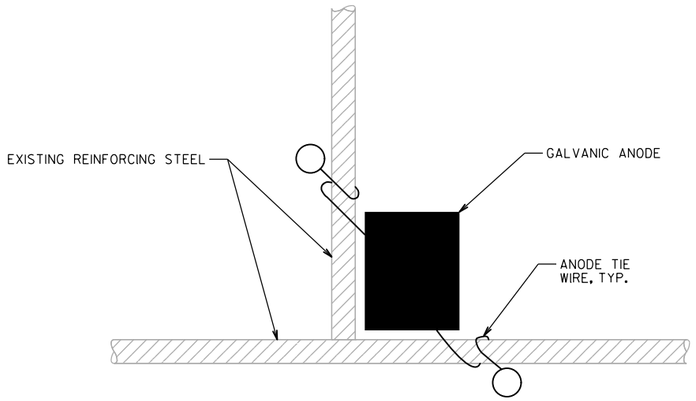
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LONG. FULL-DEPTH DECK REPAIR

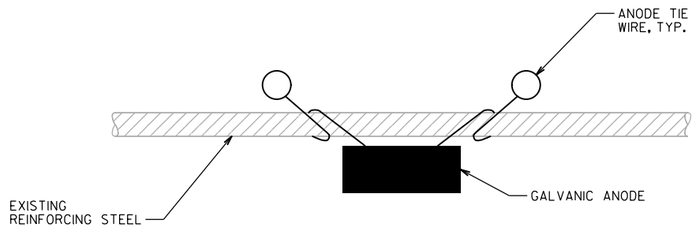
SHEET 4

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STATE PROJECT NUMBER
1100-20-74

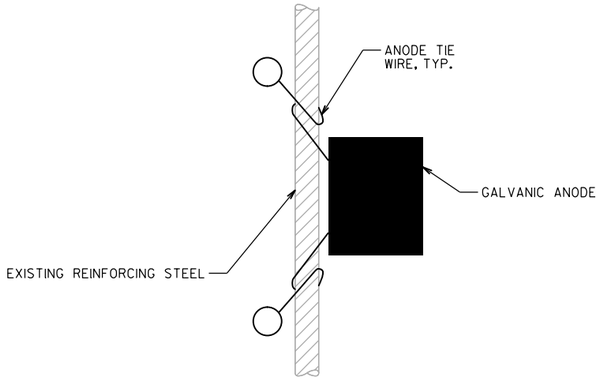


TYPICAL INSTALLATION AT BAR STEEL INTERSECTION



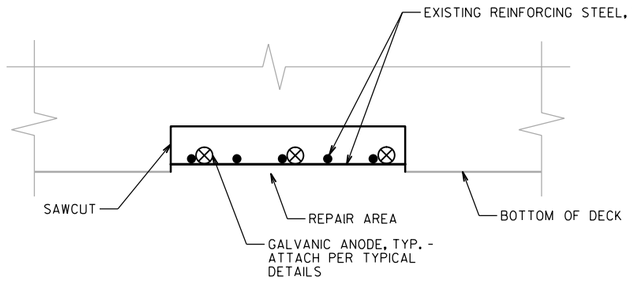
TYPICAL INSTALLATION BELOW BAR STEEL

(HORIZONTAL)

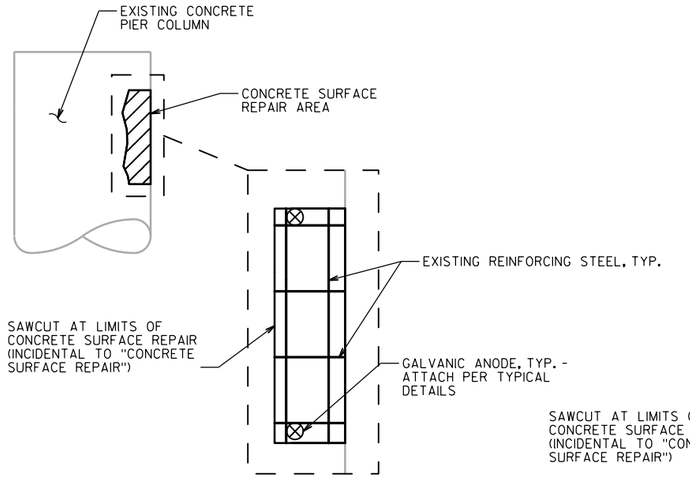


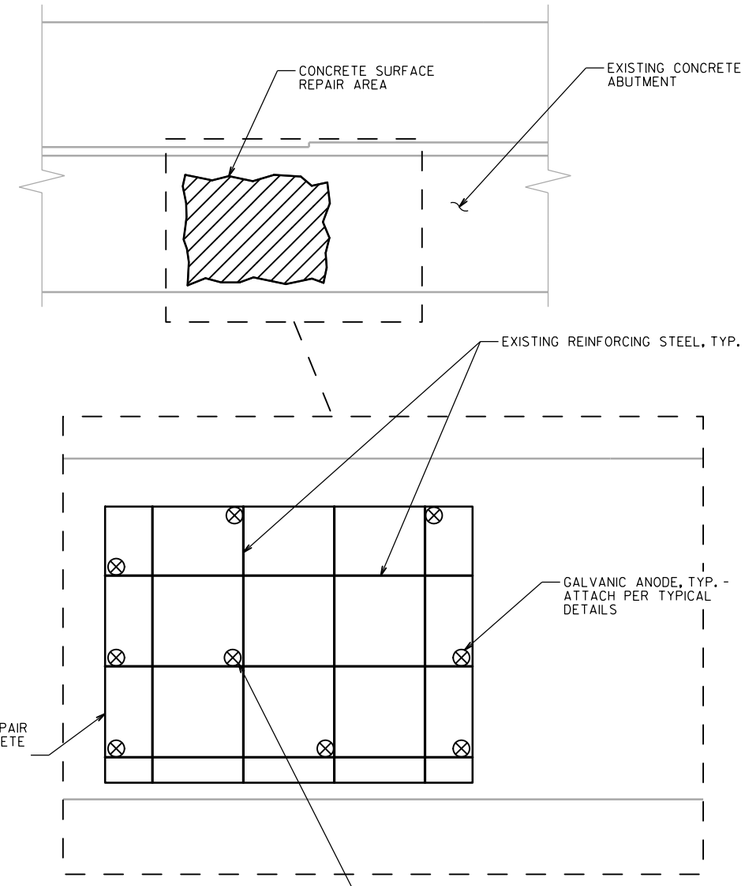
TYPICAL INSTALLATION BESIDE BAR STEEL

(VERTICAL)



PART. SECTION BOTTOM OF SLAB REPAIR DETAIL





TYPICAL STRUCTURE REPAIR DETAILS

VERTICAL SURFACE REPAIR SHOWN, HORIZONTAL SURFACE REPAIR SIMILAR.

NOTES

SURFACE REPAIR AREAS WITH CATHODIC PROTECTION ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. THE PLAN QUANTITY FOR THE BID ITEM "EMBEDDED GALVANIC ANODES" IS BASED ON A MAXIMUM SPACING OF 24-INCHES AROUND THE SURFACE REPAIR PERIMETER. THE ACTUAL QUANTITY SHALL BE BASED ON THE FIELD CONDITIONS AND AS RECOMMENDED BY THE GALVANIC ANODE SUPPLIER.

SURFACE REPAIRS SHALL BE FILLED WITH REPAIR MATERIALS COMPATIBLE WITH CATHODIC PROTECTION, AS RECOMMENDED BY THE ANODE SUPPLIER.

EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL AND CONCRETE TO PROVIDE SUFFICIENT ELECTRICAL CONNECTION AND BOND. CATHODIC PROTECTION PREPARATIONS ARE INCLUDED IN THE BID ITEM "EMBEDDED GALVANIC ANODES".

ANODES NEAREST TO EDGE OF REPAIR TO BE WITHIN 6" OF EDGE.

AFTER PLACEMENT, GALVANIC ANODES SHOULD MAINTAIN A MINIMUM TOP COVER OF 1½" AND A MINIMUM BOTTOM COVER OF ¾".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-332

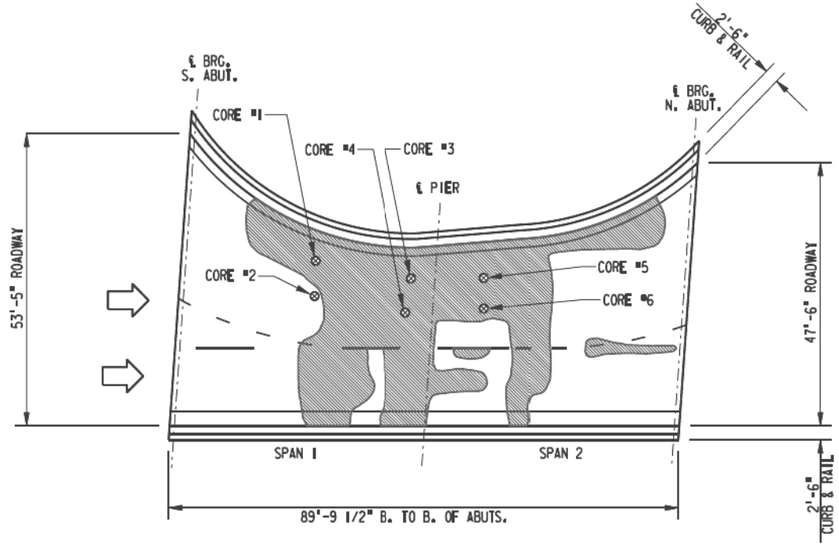
DRAWN BY JWO | PLANS CK'D. EAJ

GALVANIC ANODES

SHEET 5

STATE PROJECT NUMBER

1100-20-74



PLAN

INFRARED THERMOGRAPHIC SURVEY RESULTS

FIELD OBSERVATIONS SUMMARY		STRUCTURE NO. B-40-332	
ITEM	UNIT	QUANT.	%
TOTAL AREA	ft^2	3238	
SHADE/DEBRIS	ft^2	0	
DELAMINATION	ft^2	1341	41.4
SPALL	ft^2	0	0
DEBOND	ft^2	0	0
ASPHALT PATCH	ft^2	0	0
PCC PATCH	ft^2	0	0

LEGEND

- DELAMINATION
- SPALL
- DEBOND
- ASPHALT PATCH
- PCC PATCH
- SHADE/DEBRIS

SCALE 0' 5' 10' 20'

SURFACE TYPE: CONCRETE OVERLAY
INFRARED INSPECTION DATE: 10/18/21
DECK CORING DATE: 12/2/22

REVISIONS	NO	DRN	CHK	DATE

DATA COL TC/DD
ANALYSIS TC
CADD DS
CHECKED BS
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All rights reserved

AECOM

INFRARED THERMOGRAPHIC INVESTIGATION OF INTERCHANGE RD NB OVER STH 190-CAPITOL DR STRUCTURE NO. B-40-332

PREPARED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION BUREAU OF STRUCTURES

DATE 12/5/22
PROJECT NO 60661059
FILENAME B-40-332-IR.DGN
SHEET NO 1 OF 1
DRAWING NO

8

NOTES:

LEVEL 2 (TOP OF DECK) INFARED INSPECTION PERFORMED BY AECOM ON 10/18/2021.

DEFECT AREAS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. THE FIELD ENGINEER WILL SOUND THE DECK AND MARK AREAS IN THE FIELD.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-332

DRAWN BY HDA | PLANS CK'D. PJC

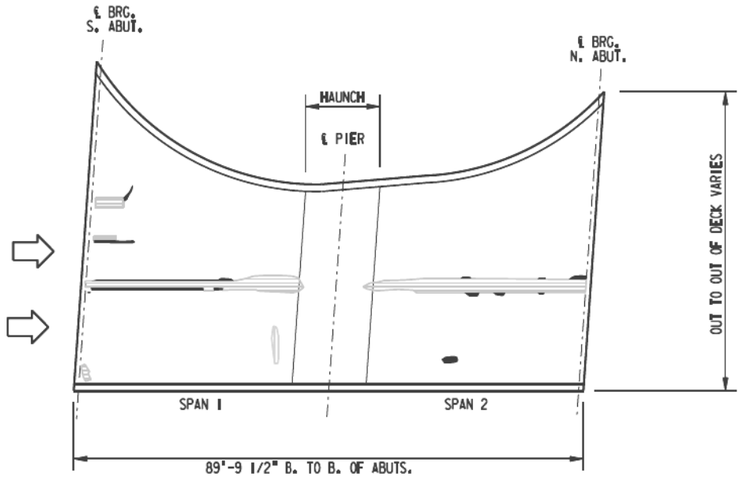
LEVEL 2 INFRARED THERMOGRAPHIC DECK SURVEY

SHEET 6

FILE NAME : \\milw00\ingrproj\79555\b1\1100-20-74\B-40-332\cds\332_080202_irt2.dgn PLOT DATE : 7/20/2023 2:39:03 PM PLOT BY : awyckoff PLOT NAME : $FILE$ PLOT SCALE : 2:1

STATE PROJECT NUMBER

1100-20-74



PLAN - VIEWED FROM TOP

DECK UNDERSIDE VISUAL SURVEY RESULTS

FIELD OBSERVATIONS SUMMARY		STRUCTURE NO. B-40-332		LEGEND
ITEM	UNIT	QUANT.	%	
TOTAL AREA	ft^2	3735		DELAMINATION
DELAMINATION	ft^2	0	0	SPALL
SPALL	ft^2	33	0.9	MOISTURE
MOISTURE	ft^2	0	0	STAINING
STAINING	ft^2	6	0.2	HONEY COMBING
HONEY COMBING	ft^2	0	0	PCC PATCH
PCC PATCH	ft^2	162	4.3	

N

SCALE 0' 5' 10' 20'

UNDERSIDE INSPECTION DATE: 12/15/22, 3:30 PM

NO	DATE	REVISIONS	DRN	CHK

DATA COL TT
ANALYSIS DS
CADD DS
CHECKED BS

Copyright date all rights reserved

AECOM

DECK UNDERSIDE VISUAL SURVEY OF INTERCHANGE RD NB OVER STH 190-CAPITOL DR
STRUCTURE NO. B-40-332

PREPARED FOR
WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

DATE 12/19/22
PROJECT NO 60661059
FILENAME B-40-332-BOT.DGN
SHEET NO 1 OF 1
DRAWING NO

8

8

NOTES:

LEVEL 3 (UNDERSIDE OF DECK) INFARED INSPECTION PERFORMED BY AECOM ON 12/15/2022.

DEFECT AREAS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. THE FIELD ENGINEER WILL SOUND THE DECK AND MARK AREAS IN THE FIELD.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-332

DRAWN BY HDA | PLANS CK'D. PJC

LEVEL 3 INFRARED THERMOGRAPHIC DECK SURVEY

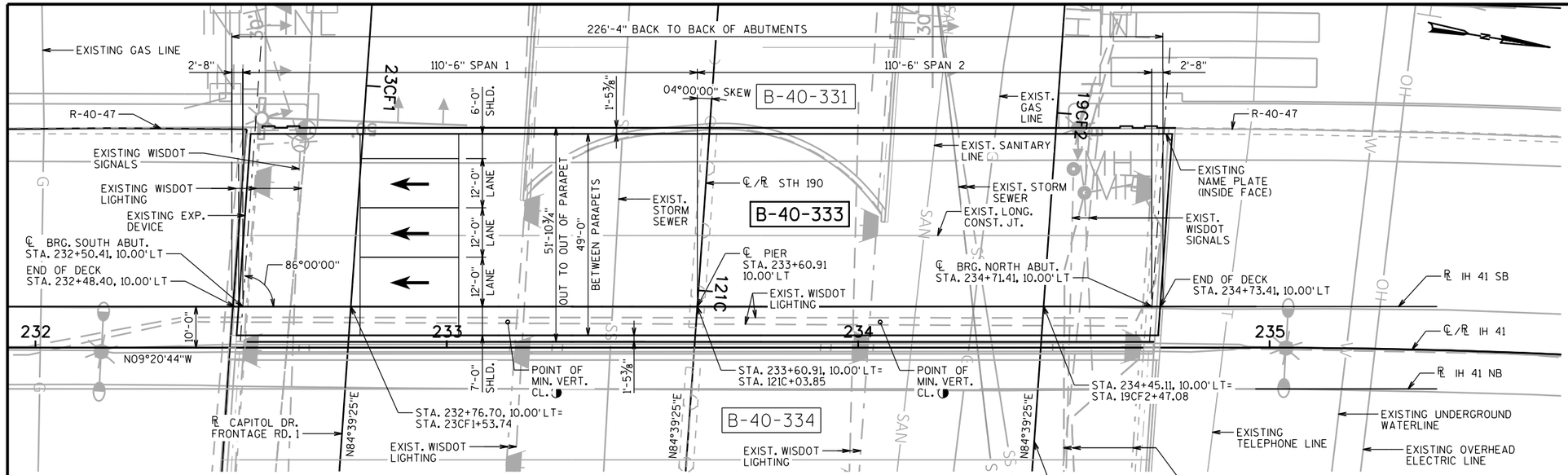
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STATE PROJECT NUMBER
1100-20-74

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES, AND QUANTITIES
3. GALVANIC ANODES



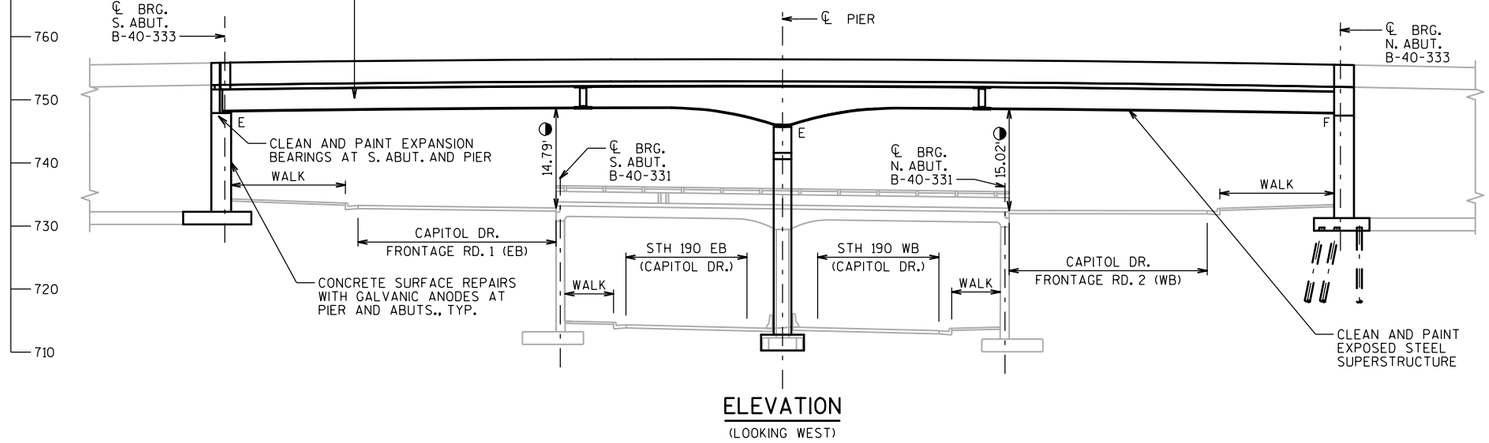
PLAN

(PAINTING & SUBSTRUCTURE REPAIRS OF 2-SPAN CONTINUOUS HAUNCHED STEEL PLATE GIRDER)

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.A.D.T. = 74,500 (2019)
FUTURE A.A.D.T. = 84,650 (2040)
R.D.S. = 60 M.P.H.

INTERCHANGE RD. EB

EXISTING A.A.D.T. = 7,188 (2019)
FUTURE A.D.T. = 20,500 (2040)
R.D.S. = 35 M.P.H.

INTERCHANGE RD. WB

EXISTING A.A.D.T. = 10,922 (2019)
FUTURE A.D.T. = 20,500 (2040)
R.D.S. = 35 M.P.H.

STH 190-CAPITOL DR.

EXISTING A.A.D.T. = 51,000 (2019)
FUTURE A.A.D.T. = 56,300 (2040)
R.D.S. = 50 M.P.H.

DESIGN DATA

LIVE LOAD

TAKEN FROM HSIS, 4/7/2023
INVENTORY RATING: HS20
OPERATING RATING: HS33
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 230 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi

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 _____ SDR 08/22/23
CHIEF STRUCTURES DESIGN ENGINEER — DATE

WISCONSIN
HEATHER D. ANDERS, P.E.
33441-006
CEDARBURG, WI
06/01/2023
PROFESSIONAL ENGINEER
Heather D. Anders

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	CVH

GENERAL PLAN AND ELEVATION

SHEET 1 OF 3

8

8

STATE PROJECT NUMBER
1100-20-74

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

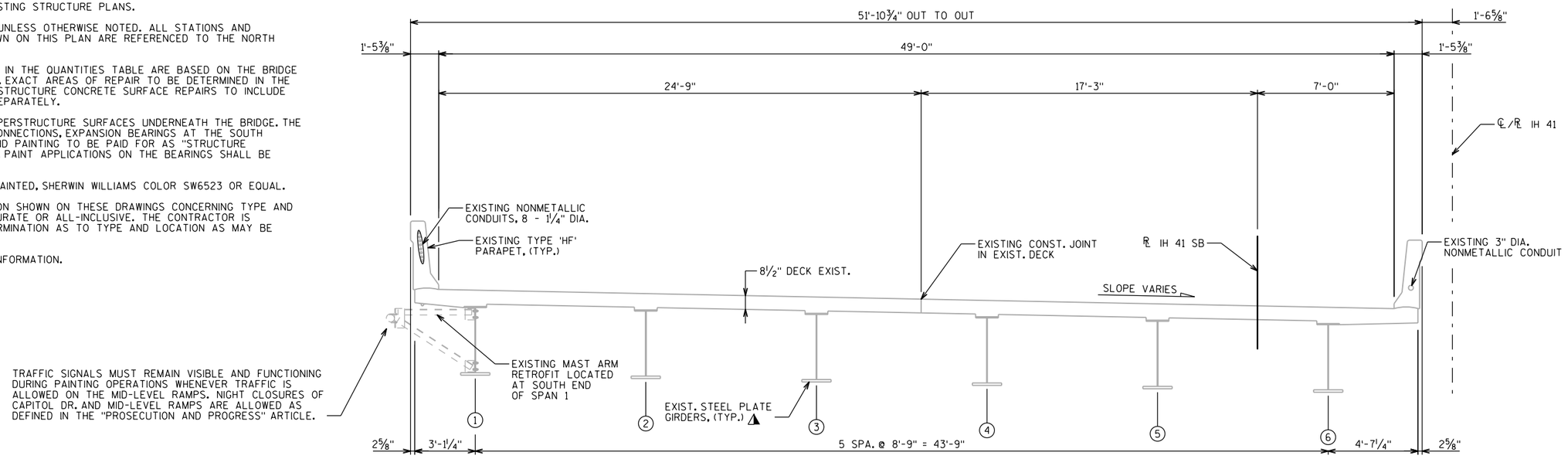
"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS TO INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

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 TO 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 THEIR OWN DETERMINATION AS TO TYPE AND LOCATION AS MAY BE NECESSARY TO AVOID DAMAGE.

REFER TO ROADWAY PLANS FOR STAGING INFORMATION.



TYPICAL SECTION

(LOOKING NORTH)

⚠ 40" WEBS TYPICAL, 72" WEB MAX. AT PIER

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
509.1500	CONCRETE SURFACE REPAIR	SF	120
517.1801.S.0001	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-333	EACH	1
517.4501.S.0001	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-333	EACH	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1
SPV.0060.4000	EMBEDDED GALVANIC ANODES	EACH	40

ALL ITEMS ARE CATEGORY 2030

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-333

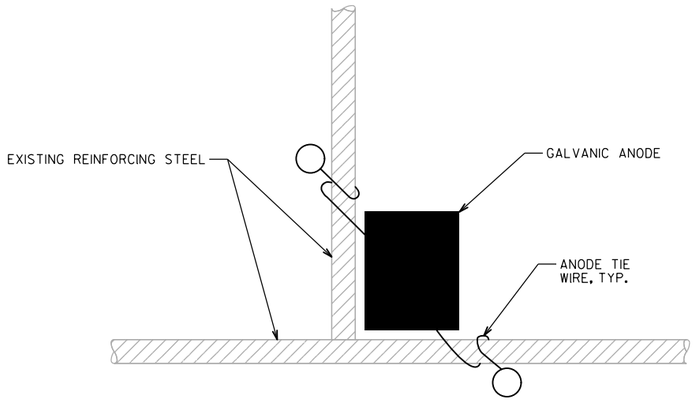
DRAWN BY DMLJ | PLANS CK'D. CVH

TYPICAL SECTION, GENERAL NOTES, AND QUANTITIES

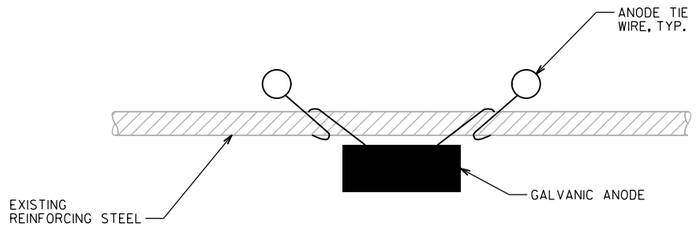
SHEET 2

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PLOT NAME : $FILE$
PLOT SCALE : 6:1

STATE PROJECT NUMBER
1100-20-74

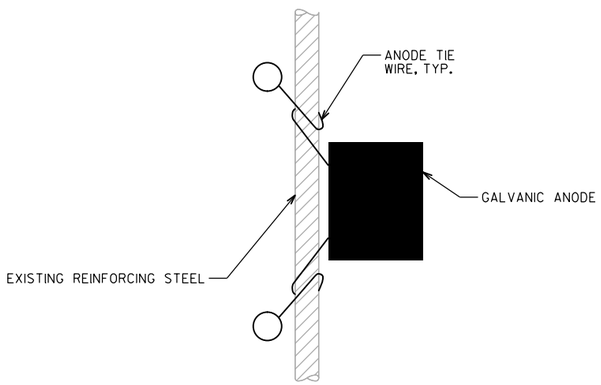


TYPICAL INSTALLATION AT BAR STEEL INTERSECTION



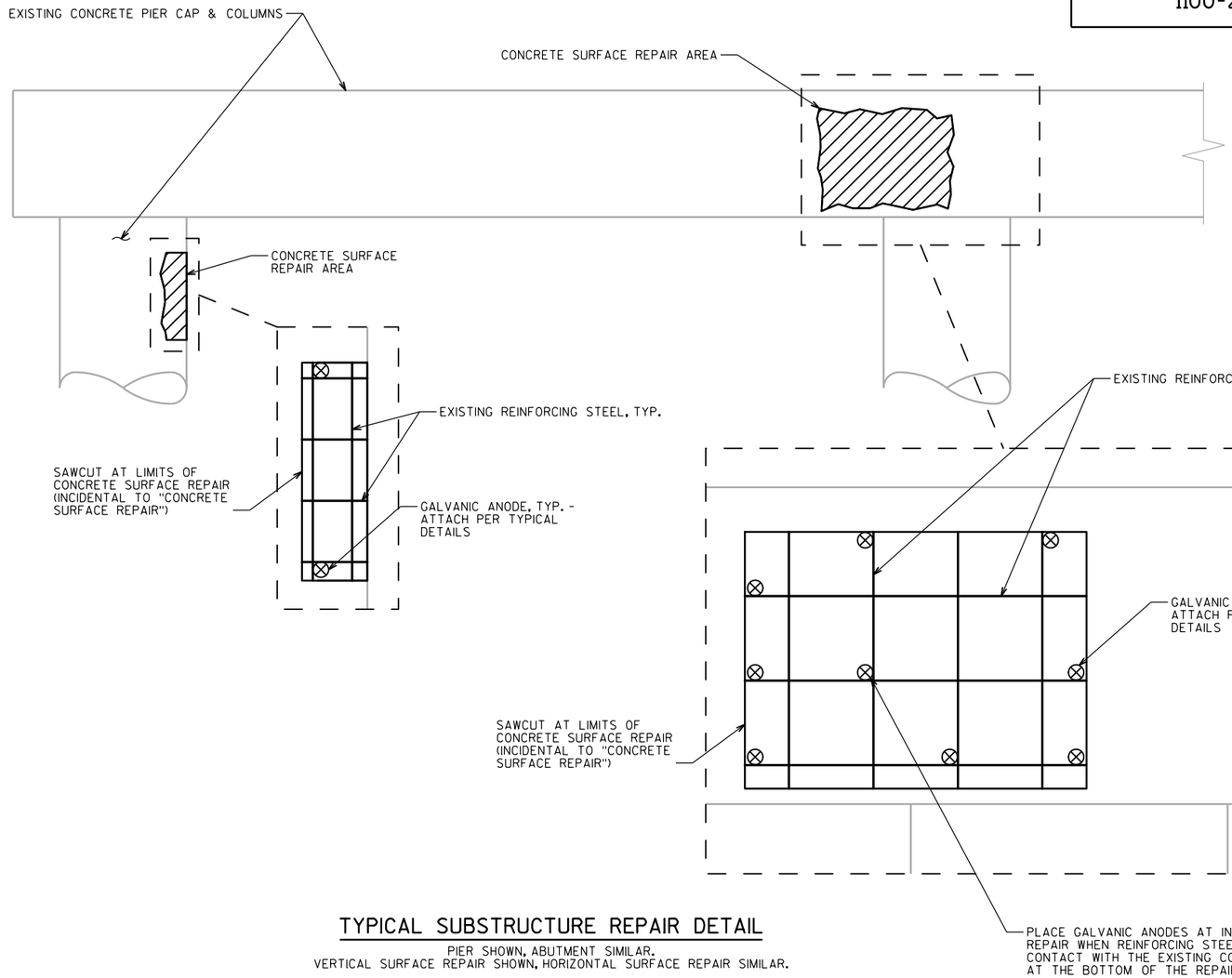
TYPICAL INSTALLATION BELOW BAR STEEL

(HORIZONTAL)



TYPICAL INSTALLATION BESIDE BAR STEEL

(VERTICAL)



TYPICAL SUBSTRUCTURE REPAIR DETAIL

PIER SHOWN, ABUTMENT SIMILAR.
VERTICAL SURFACE REPAIR SHOWN, HORIZONTAL SURFACE REPAIR SIMILAR.

NOTES

SEE SPECIAL PROVISION "EMBEDDED GALVANIC ANODES" FOR DESCRIPTION, MATERIALS, CONSTRUCTION, MEASUREMENT AND PAYMENT INFORMATION.

EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL PRIOR TO INSTALLATION OF GALVANIC ANODES.

LOCATIONS OF GALVANIC ANODES SHOULD BE WITHIN 6" OF THE EDGE OF THE REPAIR AREA.

AFTER PLACEMENT, GALVANIC ANODES SHOULD MAINTAIN A MINIMUM TOP COVER OF 1½" AND A MINIMUM BOTTOM COVER OF ¾".

PROVIDE GALVANIC ANODES IN CONCRETE SURFACE REPAIR AREAS IN SUBSTRUCTURE ONLY.

ESTIMATED ANODE QUANTITY ON PLANS IS BASED ON A MAXIMUM SPACING OF 24" AROUND PERIMETER OF CONCRETE SURFACE REPAIR AREA. PLACE ADDITIONAL ANODES AT THE INTERIOR OF REPAIRED AREA SO CENTER TO CENTER SPACING OF ANODES IS NOT GREATER THAN 24" IN ANY DIRECTION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-333

DRAWN BY DMLJ | PLANS CK'D. CVH

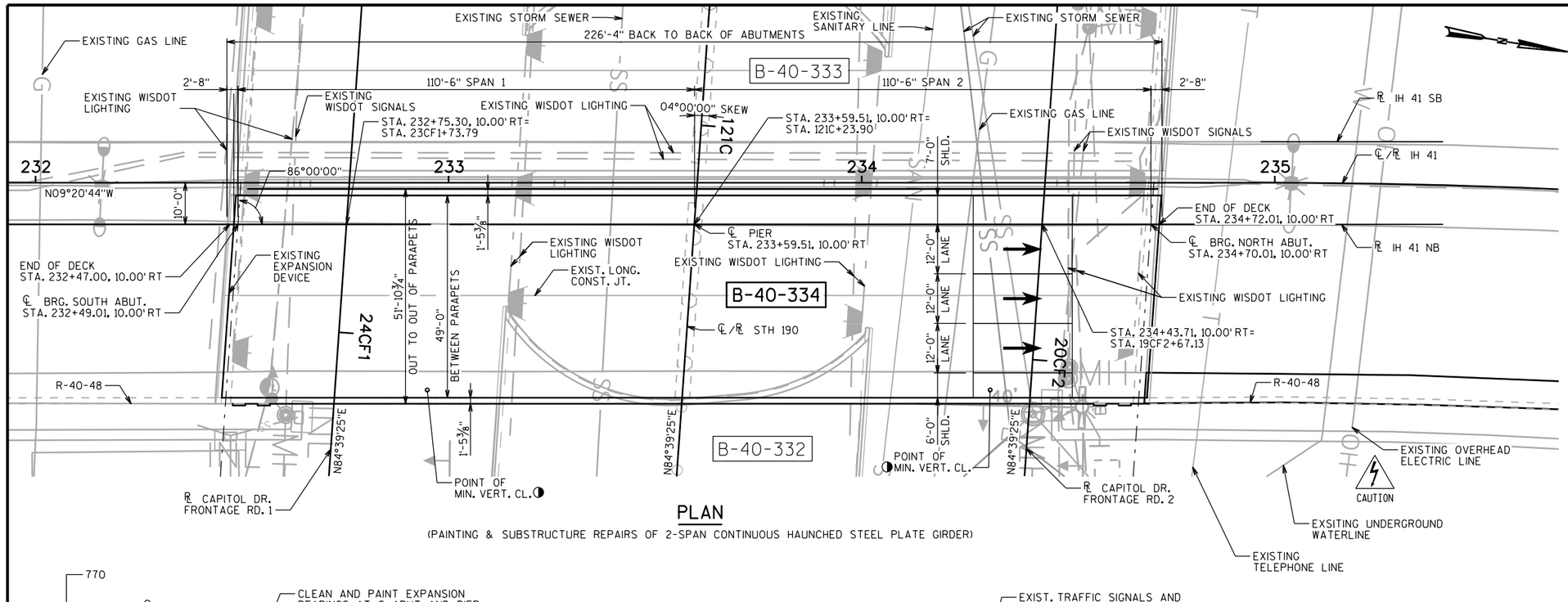
GALVANIC ANODES

SHEET 3

STATE PROJECT NUMBER
1100-20-74

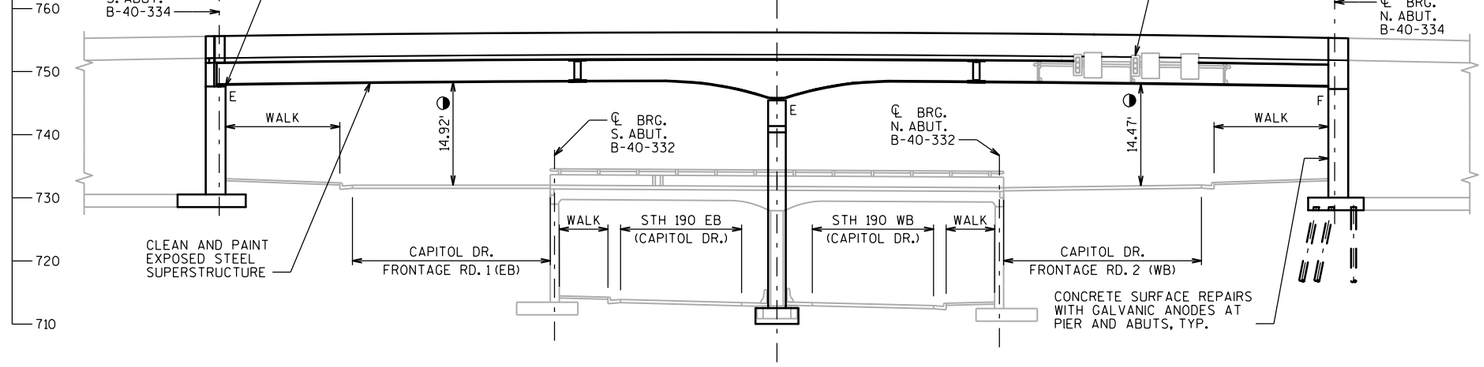
LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, GENERAL NOTES, AND QUANTITIES
3. GALVANIC ANODES



PLAN

(PAINTING & SUBSTRUCTURE REPAIRS OF 2-SPAN CONTINUOUS HAUNCHED STEEL PLATE GIRDER)



ELEVATION

(LOOKING WEST)

LEGEND

TRAFFIC DIRECTION

CLEARANCE DIMENSION TAKEN FROM HSIS; MEASUREMENT TAKEN 9/13/2016. LOCATION PER EXISTING PLANS.

TRAFFIC DATA

IH 41 NB

EXISTING A.A.D.T. = 74,500 (2019)
FUTURE A.A.D.T. = 84,650 (2040)
R.D.S. = 60 M.P.H.

INTERCHANGE RD. EB

EXISTING A.A.D.T. = 7,188 (2019)
FUTURE A.A.D.T. = 20,500 (2040)
R.D.S. = 35 M.P.H.

INTERCHANGE RD. WB

EXISTING A.A.D.T. = 10,922 (2019)
FUTURE A.A.D.T. = 20,500 (2040)
R.D.S. = 35 M.P.H.

STH 190-CAPITOL DR.

EXISTING A.A.D.T. = 51,000 (2019)
FUTURE A.A.D.T. = 56,300 (2040)
R.D.S. = 50 M.P.H.

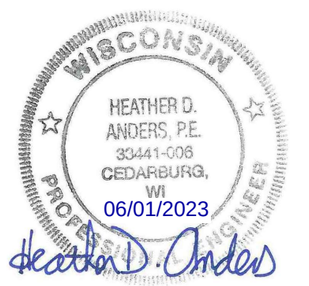
DESIGN DATA

LIVE LOAD

TAKEN FROM HSIS, 4/7/2023
INVENTORY RATING: HS21
OPERATING RATING: HS36
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 230 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi



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 SDR 08/22/23
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 3

FILE NAME : \\milw00\ingrproj\79555\b1\1100-20-74\B-40-334\cds\334_080101_gp.dgn
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PLOT BY : HAnders
PLOT SCALE : 30:1

STATE PROJECT NUMBER
1100-20-74

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

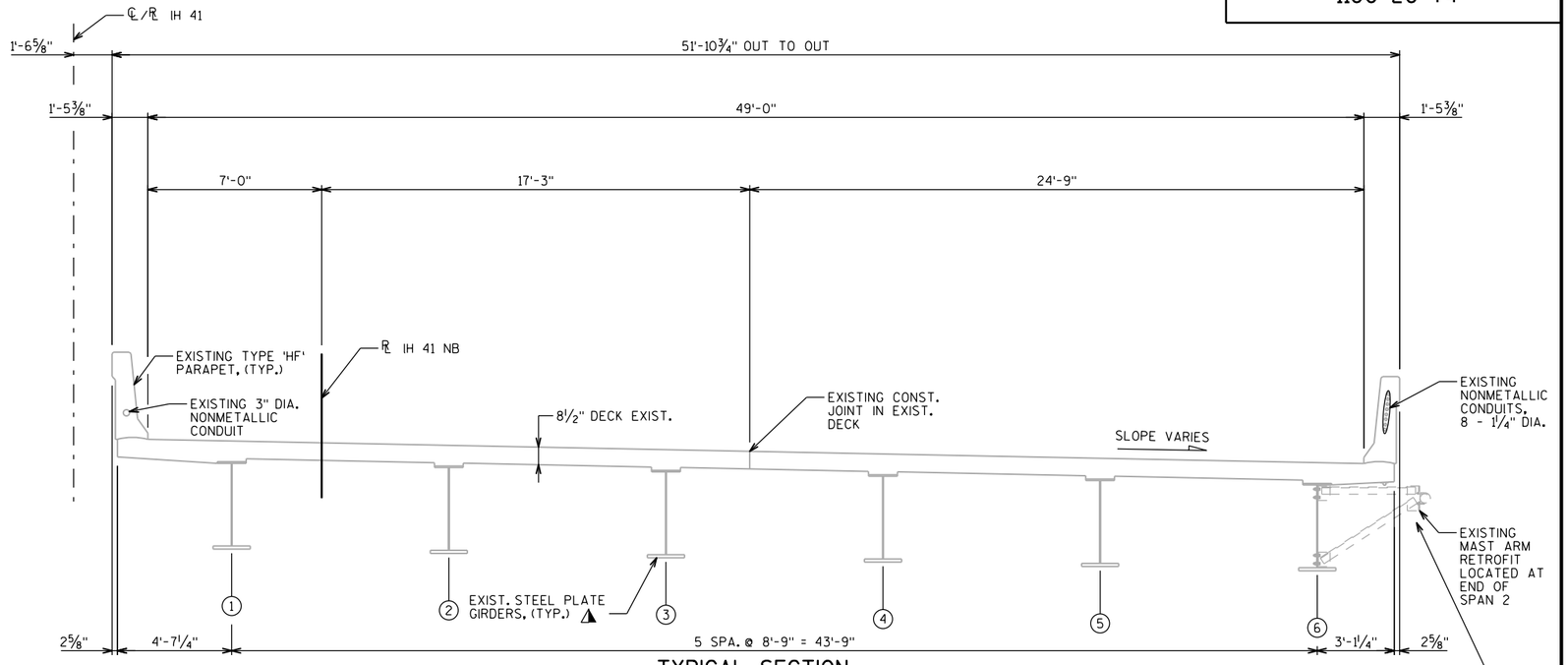
"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

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-40-334". PAINT APPLICATIONS ON THE BEARINGS SHALL BE BRUSHED ON. DO NOT PAINT EXISTING TRAFFIC SIGNAL MAST ARM.

EXISTING STEEL SUPERSTRUCTURE TO 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 THEIR OWN DETERMINATION AS TO TYPE AND LOCATION AS MAY BE NECESSARY TO AVOID DAMAGE.

REFER TO ROADWAY PLANS FOR STAGING INFORMATION.



TYPICAL SECTION

(LOOKING NORTH)

◭ 40" WEBS TYPICAL, 72" WEB MAX. AT PIER

TRAFFIC SIGNALS MUST REMAIN VISIBLE AND FUNCTIONING DURING PAINTING OPERATIONS WHENEVER TRAFFIC IS ALLOWED ON THE MID-LEVEL RAMPS. NIGHT CLOSURES OF CAPITOL DR. AND MID-LEVEL RAMPS ARE ALLOWED AS DEFINED IN THE "PROSECUTION AND PROGRESS" ARTICLE.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
509.1500	CONCRETE SURFACE REPAIR	SF	80
517.1801.S.0002	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-334	EACH	1
517.4501.S.0002	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-334	EACH	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1
SPV.0060.4000	EMBEDDED GALVANIC ANODES	EACH	25

ALL ITEMS ARE CATEGORY 2040

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-334

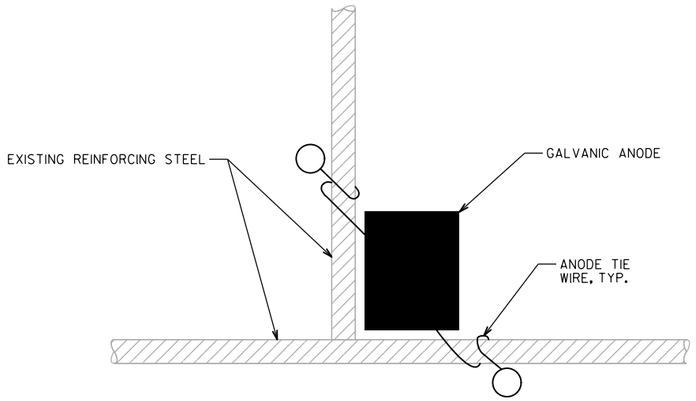
DRAWN BY SSG | PLANS CK'D. EAJ

TYPICAL SECTION, GENERAL NOTES, AND QUANTITIES

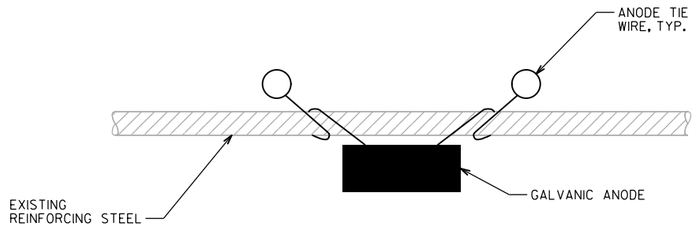
SHEET 2

FILE NAME : \\milw00\ingrproj\79555\b1\1100-20-74\B-40-334\cds\334_080102_ts.dgn PLOT DATE : 5/30/2023 7:07:38 PM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 6:1

STATE PROJECT NUMBER
1100-20-74

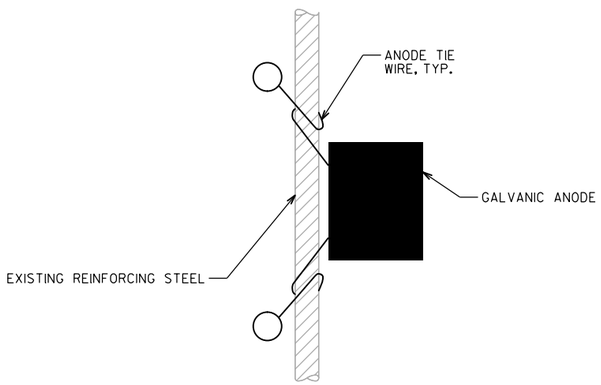


TYPICAL INSTALLATION AT BAR STEEL INTERSECTION



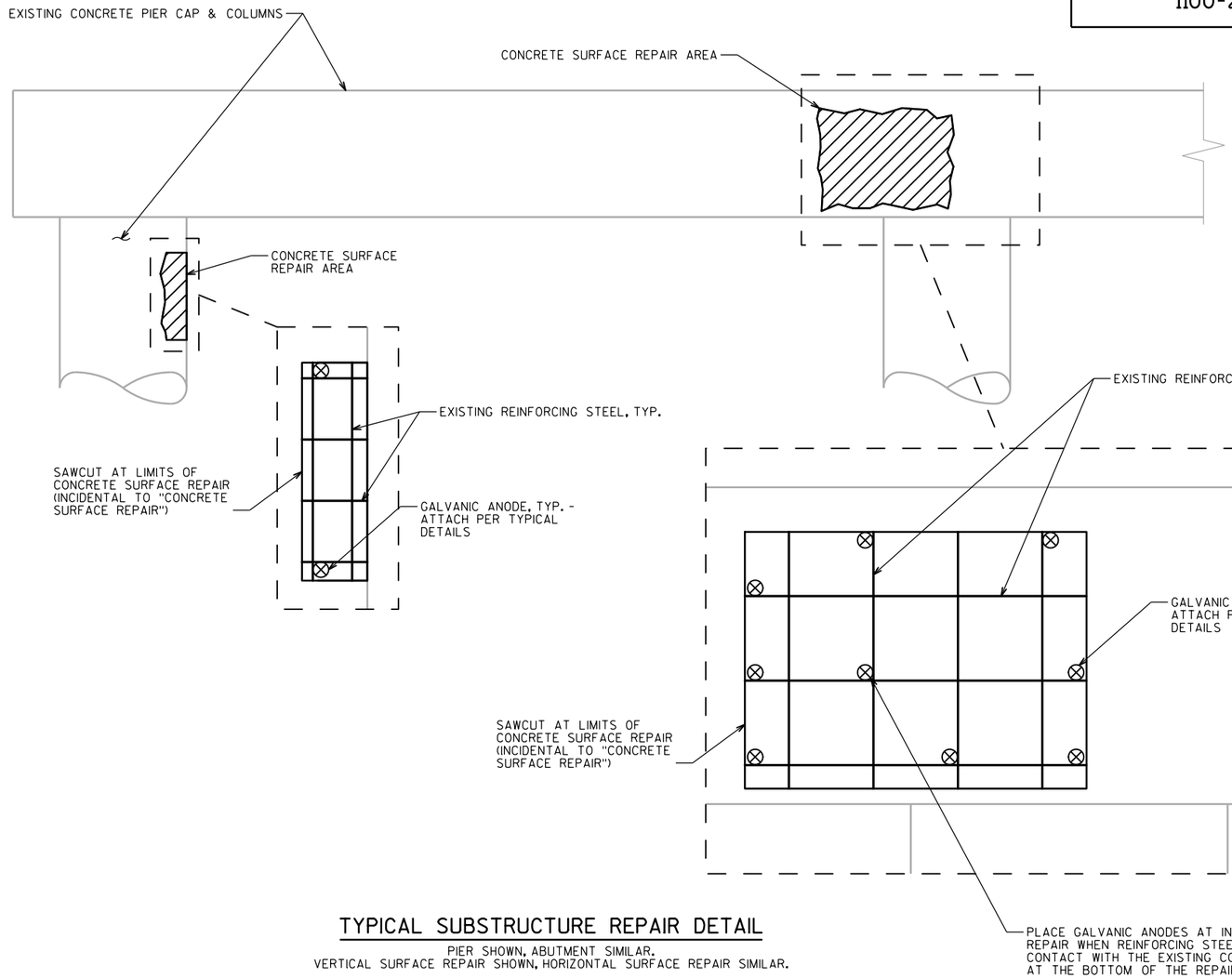
TYPICAL INSTALLATION BELOW BAR STEEL

(HORIZONTAL)



TYPICAL INSTALLATION BESIDE BAR STEEL

(VERTICAL)



TYPICAL SUBSTRUCTURE REPAIR DETAIL

PIER SHOWN, ABUTMENT SIMILAR.
VERTICAL SURFACE REPAIR SHOWN, HORIZONTAL SURFACE REPAIR SIMILAR.

NOTES

SEE SPECIAL PROVISION "EMBEDDED GALVANIC ANODES" FOR DESCRIPTION, MATERIALS, CONSTRUCTION, MEASUREMENT AND PAYMENT INFORMATION.

EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL PRIOR TO INSTALLATION OF GALVANIC ANODES.

LOCATIONS OF GALVANIC ANODES SHOULD BE WITHIN 6" OF THE EDGE OF THE REPAIR AREA.

AFTER PLACEMENT, GALVANIC ANODES SHOULD MAINTAIN A MINIMUM TOP COVER OF 1½" AND A MINIMUM BOTTOM COVER OF ¾".

PROVIDE GALVANIC ANODES IN CONCRETE SURFACE REPAIR AREAS IN SUBSTRUCTURE ONLY.

ESTIMATED ANODE QUANTITY ON PLANS IS BASED ON A MAXIMUM SPACING OF 24" AROUND PERIMETER OF CONCRETE SURFACE REPAIR AREA. PLACE ADDITIONAL ANODES AT THE INTERIOR OF REPAIRED AREA SO CENTER TO CENTER SPACING OF ANODES IS NOT GREATER THAN 24" IN ANY DIRECTION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-334

DRAWN BY	DMLJ	PLANS CK'D.	EAJ

GALVANIC ANODES

SHEET 3

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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