WKE

PROJECT ID 2984-12-75

WITH: N/A

COUNTY MILWAUKEE

FEBRUARY 2025

ORDER OF SHEETS

19

TOTAL SHEETS = 76

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C MILWAUKEE, N HOLTON ST PHASE 3

BR OVER MILW RVR, COMMERCE, WATER

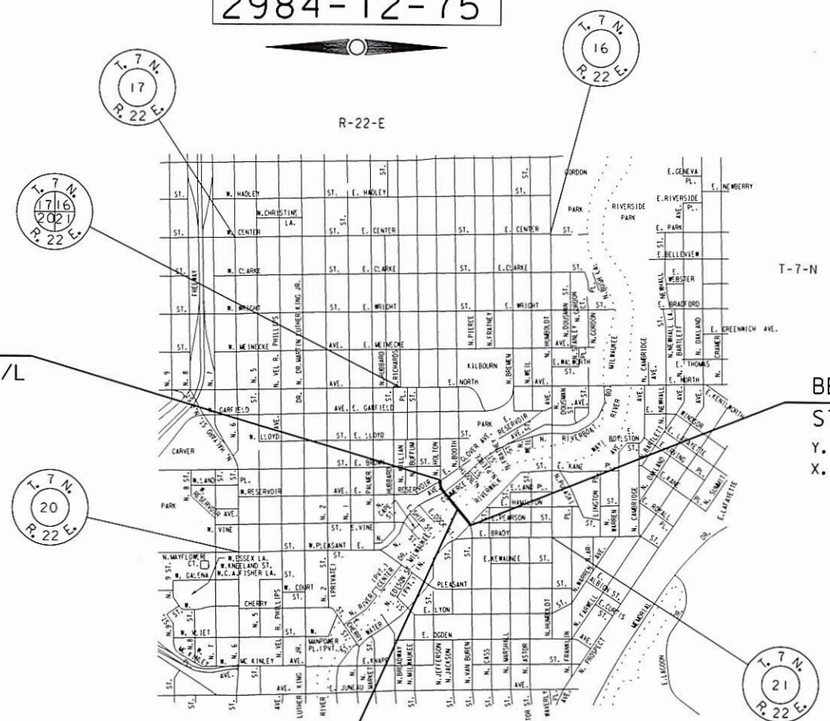
P-40-0875

LOCAL STREET
MILWAUKEE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2984-12-75	WISC 2025316	1

STATE PROJECT NUMBER

2984-12-75



Accepted For
City of Milwaukee

10/29/24
(Date) Commissioner of Public Works

Original Plans Prepared By

WISCONSIN
KEVIN J. MUHS
46391-6
MILWAUKEE, WI
PROFESSIONAL ENGINEER

10/28/2024
(Date) City Engineer

DESIGN DESIGNATION

A.D.T. (2016)	=	10,059
A.D.T. (2058)	=	10,803
D.H.V.	=	967
D.	=	54%
T.	=	N/A
DESIGN SPEED	=	30 M.P.H.
ESALS	=	N/A

CONVENTIONAL SYMBOLS

PLAN

- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- CORPORATE OR CITY LIMITS
- PROPERTY LINE — P.L.
- STANDARD BENCH MARK
- EXISTING RIGHT OF WAY LINE — R/W
- PROPOSED SEWER LATERAL — (SIZE)
- BASE OF SURVEY LINE
- CONCRETE WALK/DWY. REMOVAL
- LIMITS OF CONCRETE PAVEMENT REMOVAL — X X X X X X
- CATCH BASIN OR INLET — EXISTING — PROPOSED

- COMBUSTIBLE FLUIDS UNDER PRESSURE — CAUTION
- RAILROADS
- FENCE — (TYPE)
- FIRE & POLICE CALL BOX
- LIGHT POLE
- POWER POLE
- TELEPHONE OR TELEGRAPH POLE
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL CONTROL BOX
- HYDRANT
- GAS OR WATER GATE VALVE
- MANHOLES - SEWER — UTILITY (TYPE)
- TREES - EXISTING — TO BE REMOVED

LAYOUT

SCALE: 1 INCH = 1/2 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.184 MI (URBAN)

POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MILWAUKEE COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAYBE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE CITY OF MILWAUKEE DATUM.

TO CONVERT ELEVATIONS SHOWN ON THIS PLAN TO NATIONAL GEODEDIC VERTICAL DATUM OF 1929, ADD 580.603 TO ELEVATIONS SHOWN ON THIS PLAN.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

SURVEYOR	CITY OF MILWAUKEE
DESIGNER	CITY OF MILWAUKEE
PROJECT MANAGER	GREGORY HAFEMAN
DISTRICT EXAMINER	
DISTRICT SUPERVISOR	AMY TAETSCH
C.O. EXAMINER	

APPROVED FOR DISTRICT OFFICE

DATE: 10/29/2024 (SIGNATURE)

E

FILENAME: W:\STR\B0113\2025 PHASE 3\MAJOR PROJECTS\TITLE.DGN

PLOT DATE:

REVISED DATE: 08-23-2024 BY SLB

GENERAL NOTES

1. ALL ELEVATIONS ARE REFERENCED TO CITY OF MILWAUKEE DATUM.
2. THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
3. STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.
4. EROSION CONTROL BMP'S ARE SHOWN AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER NECESSARY.
5. TRAFFIC CONTROL DEVICES ARE SHOWN AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S TRAFFIC CONTROL PLAN AND BY THE ENGINEER. TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE OR UNTIL THE ENGINEER DETERMINES THAT THE TRAFFIC CONTROL DEVICE IS NO LONGER NECESSARY.

STANDARD ABBREVIATIONS

ASPH.	- ASPHALT
B.M.	- BENCH MARK
CTR.	- CENTER
C/L	- CENTER LINE
COMB.	- COMBINED
CONC.	- CONCRETE
C.W.	- CONCRETE WALK
COR.	- CORNER
C	- CURB
ELEV.	- ELEVATION
ENT.	- ENTRANCE
EXIST.	- EXISTING
F	- FLANGE
G	- GUTTER, OR GAS
HYD.	- HYDRANT
LT	- LEFT
MMSD	- MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
NB	- NORTHBOUND
P/L	- PROPERTY LINE
PGL	- PROFILE GRADE LINE
R OR RAD.	- RADIUS
RET.	- RETAINING
RT	- RIGHT
R/W	- RIGHT OF WAY
SB	- SOUTHBOUND
TEL	- AMERITECH
TES	- TRAFFIC ENGINEERING, AND ELECTRICAL SERVICES
T/L	- TRANSIT LINE
V.T. 0R VT	- VARIABLE THICKNESS
WEP	- WISCONSIN ELECTRIC POWER

ORDER OF SECTION 2 SHEETS

UTILITY CONTACTS

AT&T WISCONSIN
JAY BULANEK
435 S. 95TH STREET
MILWAUKEE, WI 53214
PHONE: 414-491-2855
EMAIL: JB5175@att.com

CHARTER / SPECTRUM
JOHN JORGENSEN
1320 N. DR. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212
PHONE: 414-277-4112
MOBILE: 414-688-0350
EMAIL: john.jorgensen@charter.com

CITY OF MILWAUKEE, SEWERS
ZAFAR YOUSUF
841 N. BROADWAY
MILWAUKEE, WI 53202
PHONE: 414-286-2467
EMAIL: zyousu@milwaukee.gov

CITY OF MILWAUKEE, WATER WORKS
MWW CONTROL CENTER (24/7 CONTACT)
841 N. BROADWAY, ROOM 409
MILWAUKEE, WI 53202
PHONE: 414-286-3710

LUMEN TECHNOLOGIES
BRAHIM GADDOUR
3235 INTERTECH DRIVE, SUITE 600
BROOKFIELD, WI 53045
PHONE: 414-704-1026
EMAIL: brahim.gaddour@lumen.com

TELEPORT COMMUNICATIONS AMERICA, LLC (AT&T LNS)
JASON STERENBERG
5101 THATCHER ROAD
DOWNERS GROVE, IL 60515
PHONE: 708-240-9085
EMAIL: jsterenberg@networkconnex.com

VERIZON BUSINESS (MCI)
RANDY CICATELLO
15725 W. RYERSON ROAD
NEW BERLIN, WI 53151
PHONE: 262-232-1323
EMAIL: randy.cicatello@verizon.com

WE ENERGIES - ELECTRIC
BRIAN DRESSLER
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: 608-219-2820
EMAIL: Brian.dressler@we-energies.com
We Energies Electric Dispatch # 1-800-662-4797

WE ENERGIES - GAS
BRIAN DRESSLER
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: 608-219-2820
EMAIL: Brian.dressler@we-energies.com
We Energies Gas Dispatch # 1-800-261-5325

OTHER CONTACTS

CITY OF MILWAUKEE, COMMUNICATIONS
DPW COMMUNICATIONS DISPATCH
BRYAN M. PAWLAK
1440 WEST CANAL STREET
MILWAUKEE, WI 53233
PHONE: 414-286-5970

CITY OF MILWAUKEE, STREET LIGHTING
NEAL KARWEIK
1540 WEST CANAL STREET
MILWAUKEE, WI 53233
PHONE: 414-286-5943
MOBILE: 414-708-4245
EMAIL: nkarwe@milwaukee.gov

CITY OF MILWAUKEE, UTILITY COORDINATOR
AHMAD BAYOUD
CONSTRUCTION UTILITY COORDINATOR
841 NORTH BROADWAY, RM 710
PHONE : 414-708-0645
EMAIL: abayou@milwaukee.gov

MILWAUKEE COUNTY TRANSIT SYSTEM
1942 N. 17TH STREET
MILWAUKEE, WI 53205

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

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

JESUS OCHOA
PLANNING MANAGER
PHONE: 414-344-4550 ext. 3591
EMAIL: jochoa@mcts.org

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
MICHAEL LEE
260 W. SEEBOTH STREET
MILWAUKEE, WI 53204
PHONE: 414-617-1429
EMAIL: mlee@mmsd.com

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607

ROB MERRY
CHIEF SURVEYOR
PHONE: 262-953-4289
CELL: 920-912-1036
EMAIL: rmerry@sewrpc.org

ANDY TRAEGER
CONSTRUCTION COORDINATOR
PHONE: 262-953-4296
CELL: 262-853-8463
EMAIL: atraeger@sewrpc.org

WISCONSIN DEPT. OF NATURAL RESOURCES
RYAN PAPPAS
1027 W. ST. PAUL AVENUE
MILWAUKEE, WI 53233
PHONE: 414-750-7495
EMAIL: ryan.pappas@wisconsin.gov

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

2

END PROJECT 2984-12-75

STA. 21+50.0, T/L

N

N. KILLIAN AVE.

N. BUFFUM ST.

E. RESERVOIR

BRIDGE ABUTMENT

22+00

21+00

20+00

19+00

18+00

17+00

16+00

15+00

14+00

13+00

12+00

11+00

10+00

N. HOLTON ST. VIADUCT

RIVER

N. RIVERWALK WAY

WATER ST.

E. PEARSON ST.

N. CASS ST.

BRADY ST.

BRIDGE I.D.
P-40-0875

N. COMMERCE

E. DOCK ST.

E. SHIP ST.

E. VINE ST.

N. CAPE ST.

MILWAUKEE

BEGIN PROJECT 2984-12-75

STA. 11+80.44, T/L
(Y) NORTH: 304,990.31
(X) EAST: 607,600.78

STATE PROJECT NUMBER 2984-12-75	HWY: N HOLTON ST	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SCALE FEET 0' 150'	SHEET NO: 4	E

FILENAME: W:\STR\B0113\2025 PHASE 3\MAJOR PROJECTS\OVERVIEW.DGN

REVISED DATE: 12-08-2022 BY JC

2

N

E. GLOVER AVE.

N. HOLTON ST.

E. GLOVER AVE.

N. COMMERCE ST.

LOCATED ON
N. COMMERCE ST.

RIVER

N. HOLTON ST.

N. WATER ST.

LOCATED ON
N. WATER ST.

N. HOLTON ST. VIADUCT

MILWAUKEE

N. COMMERCE ST.

N. WATER ST.

E. BRADY ST.

N. VAN BUREN AVE.

INSET (A)

E. BRADY ST.

N. VAN BUREN AVE.

LEGEND

(C) INLET PROTECTION TYPE C

SURFACE WATER FLOW

(C) INLET PROTECTION TYPE C
TO BE PLACED AT INTERSECTION OF
N HOLTON ST/N VAN BUREN ST
AND E BRADY ST

STATE PROJECT NUMBER 2984-12-75	HWY: N HOLTON ST	COUNTY: MILWAUKEE	EROSION CONTROL	SCALE FEET 0' 80'	SHEET NO: 5	E

FILENAME: W:\STR\B0113\2025 PHASE 3\MAJOR PROJECTS\EROSION CONTROL.DGN

REVISED DATE: 08-26-2024 BY SLB

2

2

N

22+00

PT: 21+95.01

BRIDGE ABUTMENT

21+00

20+00

EP: 34+57.85

34+58

34+00

33+00

PI: 32+34.21

32+00

DETAIL A
UNDER
BRIDGE

31+00

BP: 30+00.00

30+00

PC: 19+04.58

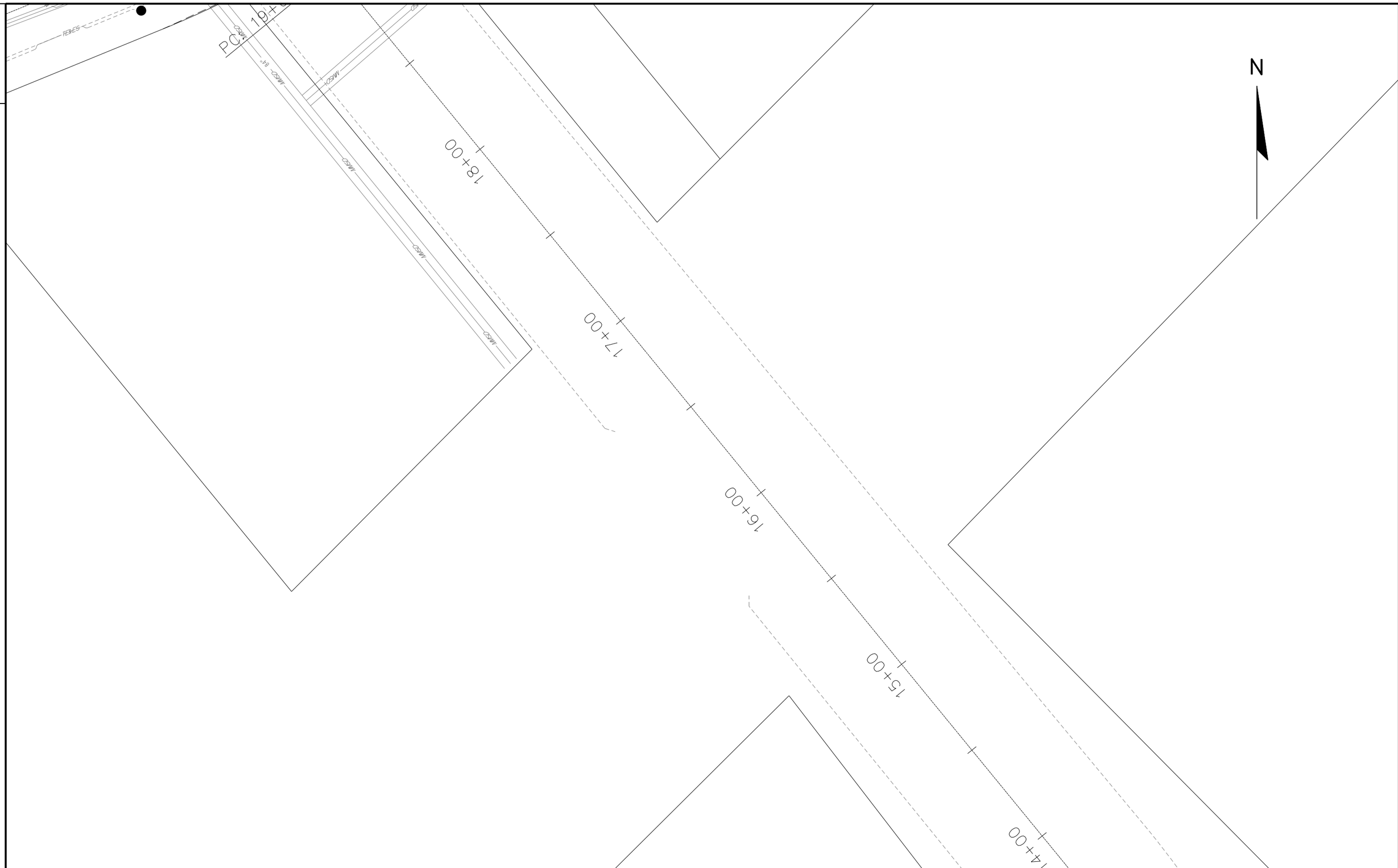
19+00

00+

STATE PROJECT NUMBER 2984-12-75	HWY: N HOLTON ST	COUNTY: MILWAUKEE	UTILITIES	SCALE FEET 0' 40'	SHEET NO: 6	E

FILENAME: W:\STR\B0113\2023 PHASE I\MAJOR PROJECTS\UTILITIES.DGN

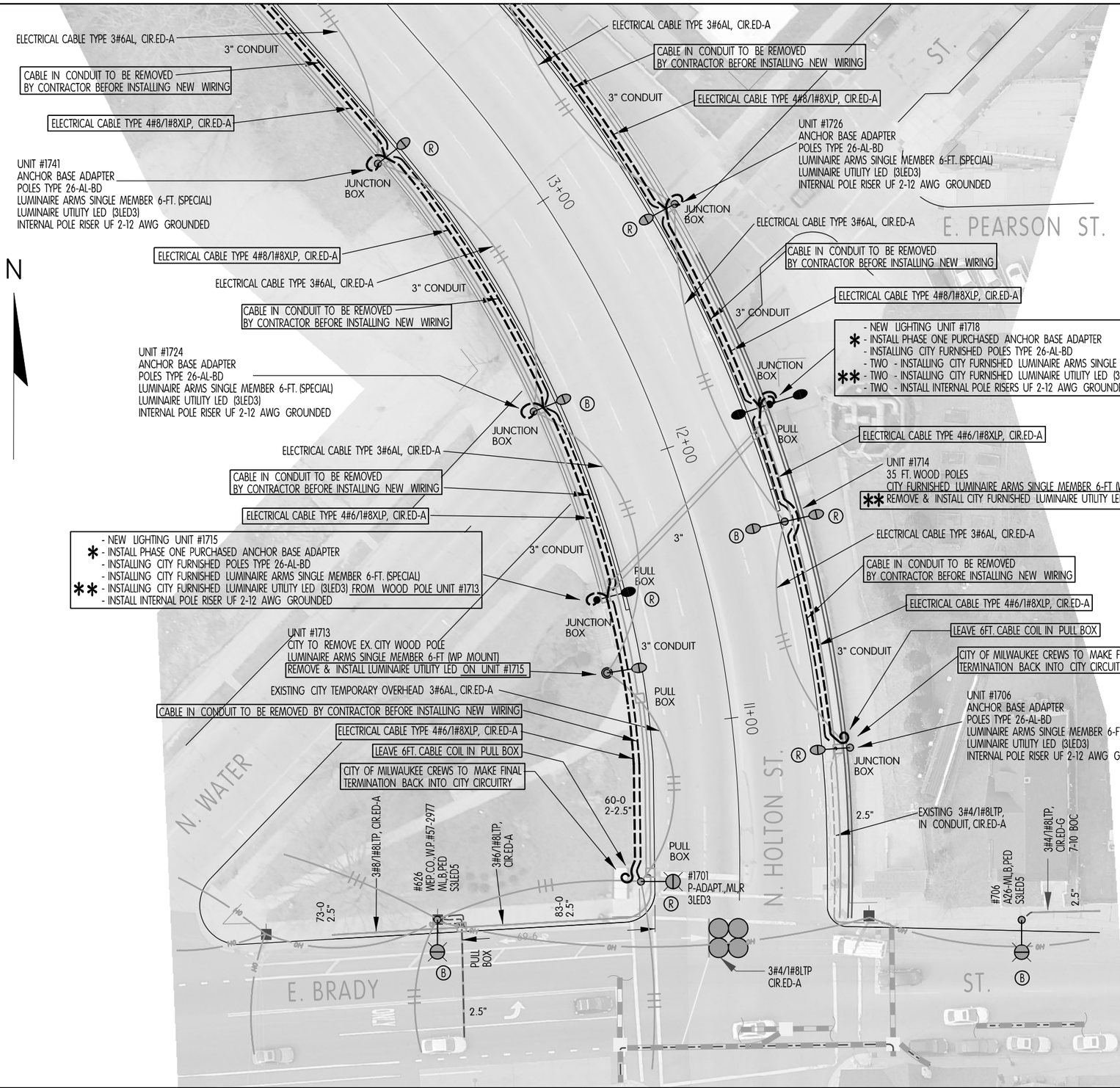
REVISED DATE: 08-23-2024 BY SLB



STATE PROJECT NUMBER 2984-12-75	HWY: N HOLTON ST	COUNTY: MILWAUKEE	UTILITIES	SCALE FEET 0' 40'	SHEET NO: 7	E

FILENAME: W:\STR\B0113\2023 PHASE 1\MAJOR PROJECTS\UTILITIES.DGN

REVISED DATE: 08-23-2024 BY SLB



* - MATERIALS INCLUDED IN PHASE 1 QUANTITIES

** - MATERIALS TO BE REMOVED AND RE-INSTALLED ON OTHER POLE

LEGEND

- EXISTING UTILITY POLE
- EXISTING POLE
- EXISTING POLE WITH LIGHT
- EX. POLE WITH DECORATIVE STYLE LUMINAIRE
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- EXISTING PULL BOX / JUNCTION BOX
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED OVERHEAD SECONDARY CABLE
- REMOVAL OF OVERHEAD SECONDARY CABLE
- EXISTING SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)
- Ⓡ Ⓑ - RED WIRE / BLACK WIRE - STREET LIGHT TERMINATION

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

STREET LIGHTING CABLE IS SHOWN ON THE PLAN OUTSIDE THE CONDUIT FOR CIRCUIT RUN CLARIFICATION. NOTE THAT ALL CABLES MUST BE INSTALLED IN CONDUIT.

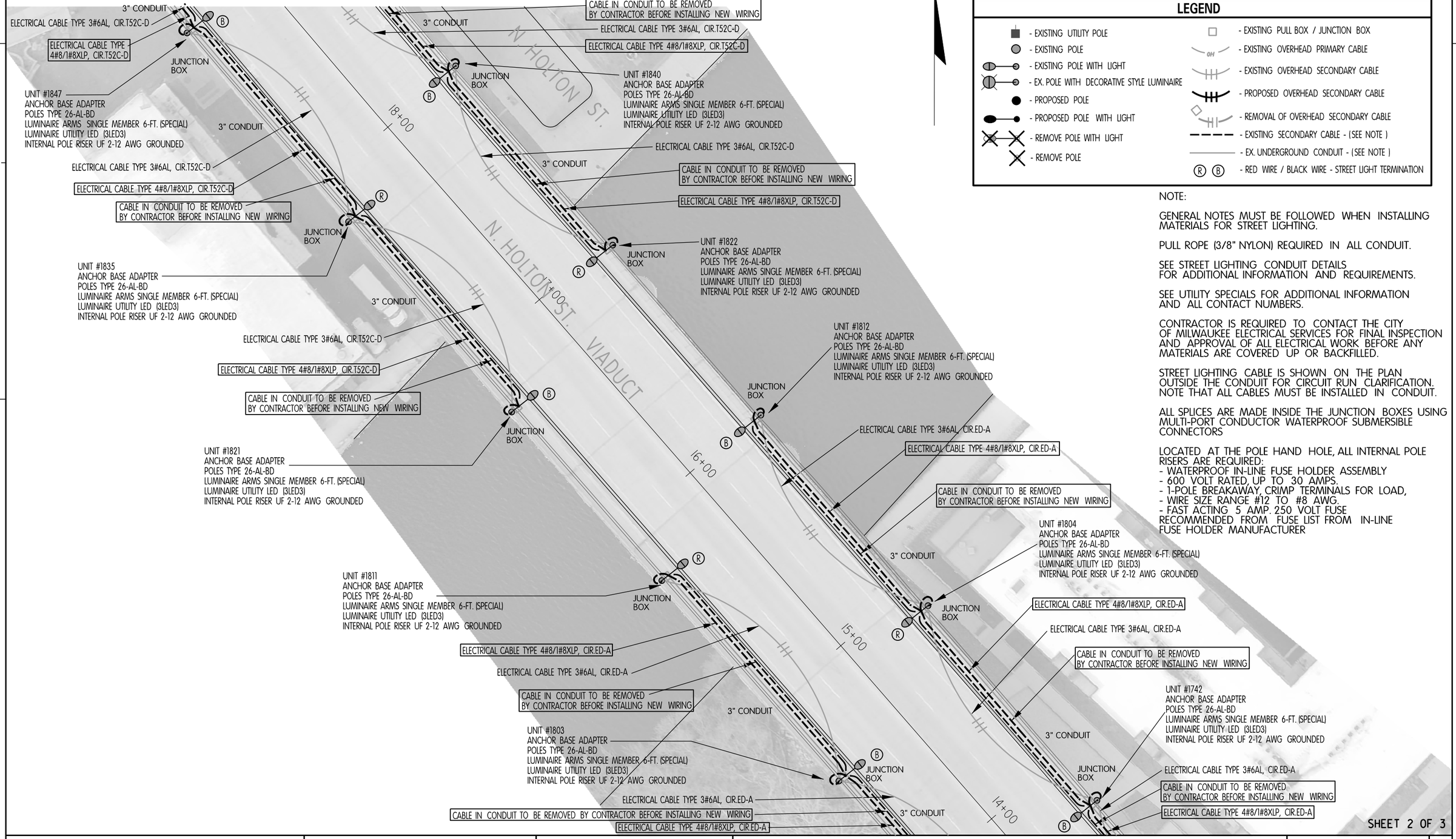
ALL SPLICES ARE MADE INSIDE THE JUNCTION BOXES USING MULTI-PORT CONDUCTOR WATERPROOF SUBMERSIBLE CONNECTORS

LOCATED AT THE POLE HAND HOLE, ALL INTERNAL POLE RISERS ARE REQUIRED:
- WATERPROOF IN-LINE FUSE HOLDER ASSEMBLY
- 600 VOLT RATED, UP TO 30 AMPS.
- 1-POLE BREAKAWAY, CRIMP TERMINALS FOR LOAD,
- WIRE SIZE RANGE #12 TO #8 AWG.
- FAST ACTING 5 AMP. 250 VOLT FUSE

RECOMMENDED FROM FUSE LIST FROM IN-LINE FUSE HOLDER MANUFACTURER

SHEET 1 OF 3

PROJECT NO. 2984-12-73	HWY: N. HOLTON ST.	COUNTY: MILWAUKEE	STREET LIGHTING - PHASE 3 - PERMANENT ON HOLTON ST. BRIDGE	SHEET 8	E



N

* - MATERIALS INCLUDED IN PHASE 1 QUANTITIES

LEGEND

- EXISTING UTILITY POLE
- EXISTING POLE
- EXISTING POLE WITH LIGHT
- EX. POLE WITH DECORATIVE STYLE LUMINAIRE
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- EXISTING PULL BOX / JUNCTION BOX
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED OVERHEAD SECONDARY CABLE
- REMOVAL OF OVERHEAD SECONDARY CABLE
- EXISTING SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)
- (R) (B) - RED WIRE / BLACK WIRE - STREET LIGHT TERMINATION

NOTE:

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ALL SPLICES ARE MADE INSIDE THE JUNCTION BOXES USING MULTI-PORT CONDUCTOR WATERPROOF SUBMERSIBLE CONNECTORS

LOCATED AT THE POLE HAND HOLE, ALL INTERNAL POLE RISERS ARE REQUIRED:
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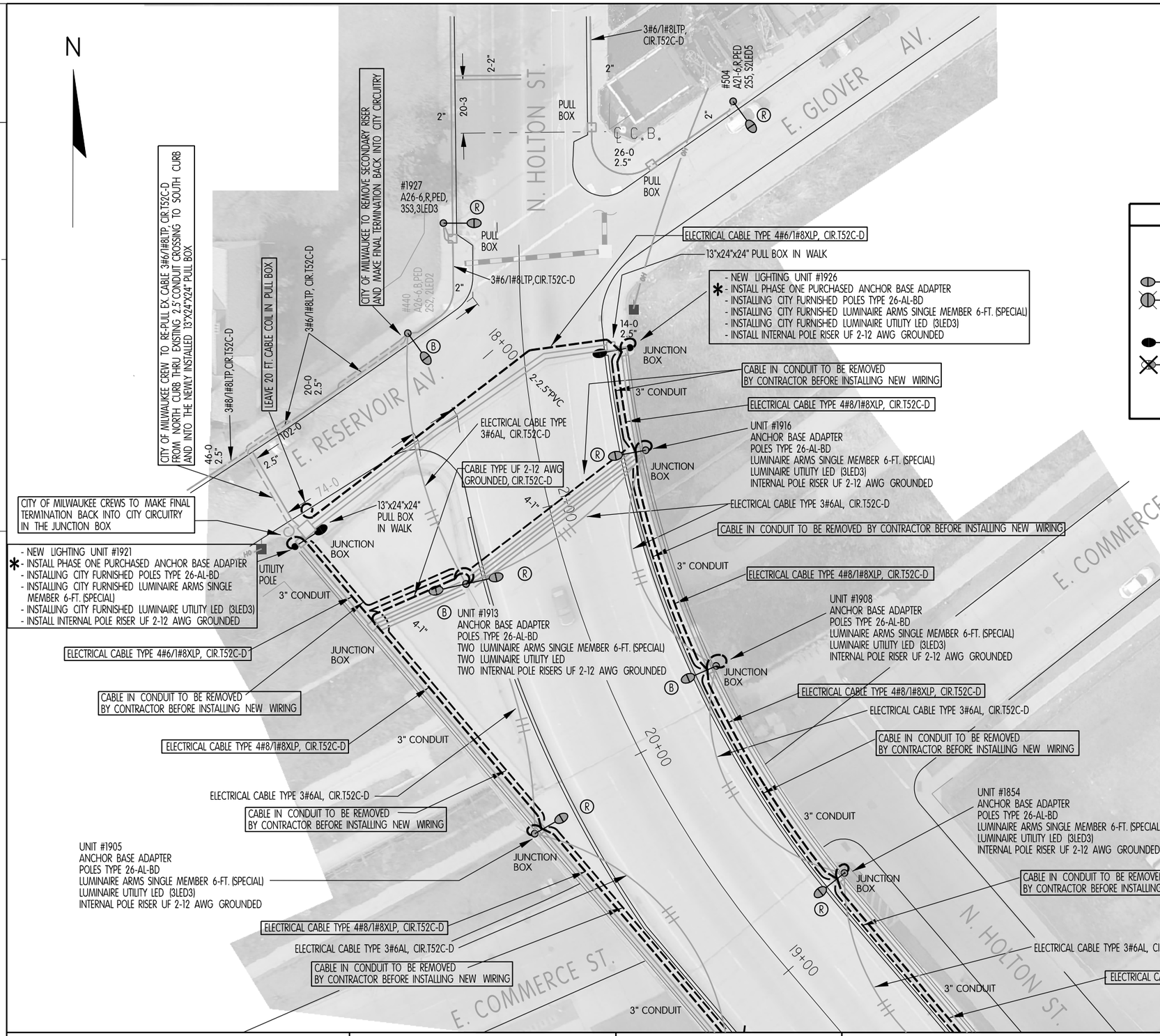
- 600 VOLT RATED, UP TO 30 AMPS.
- 1-POLE BREAKAWAY, CRIMP TERMINALS FOR LOAD,
- WIRE SIZE RANGE #12 TO #8 AWG.
- FAST ACTING 5 AMP. 250 VOLT FUSE

RECOMMENDED FROM FUSE LIST FROM IN-LINE FUSE HOLDER MANUFACTURER

SHEET 2 OF 3

PROJECT NO. 2984-12-73	HWY: N. HOLTON ST.	COUNTY: MILWAUKEE	STREET LIGHTING - PHASE 3 - PERMANENT ON HOLTON ST. BRIDGE	SHEET 9	E

2



* - MATERIALS INCLUDED IN PHASE 1 QUANTITIES

LEGEND

- EXISTING UTILITY POLE
- EXISTING POLE
- EXISTING POLE WITH LIGHT
- EX. POLE WITH DECORATIVE STYLE LUMINAIRE
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- EXISTING PULL BOX / JUNCTION BOX
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED OVERHEAD SECONDARY CABLE
- REMOVAL OF OVERHEAD SECONDARY CABLE
- EXISTING SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)
- (R) (B) - RED WIRE / BLACK WIRE - STREET LIGHT TERMINATION

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

STREET LIGHTING CABLE IS SHOWN ON THE PLAN OUTSIDE THE CONDUIT FOR CIRCUIT RUN CLARIFICATION. NOTE THAT ALL CABLES MUST BE INSTALLED IN CONDUIT.

ALL SPLICES ARE MADE INSIDE THE JUNCTION BOXES USING MULTI-PORT CONDUCTOR WATERPROOF SUBMERSIBLE CONNECTORS

LOCATED AT THE POLE HAND HOLE, ALL INTERNAL POLE RISERS ARE REQUIRED:
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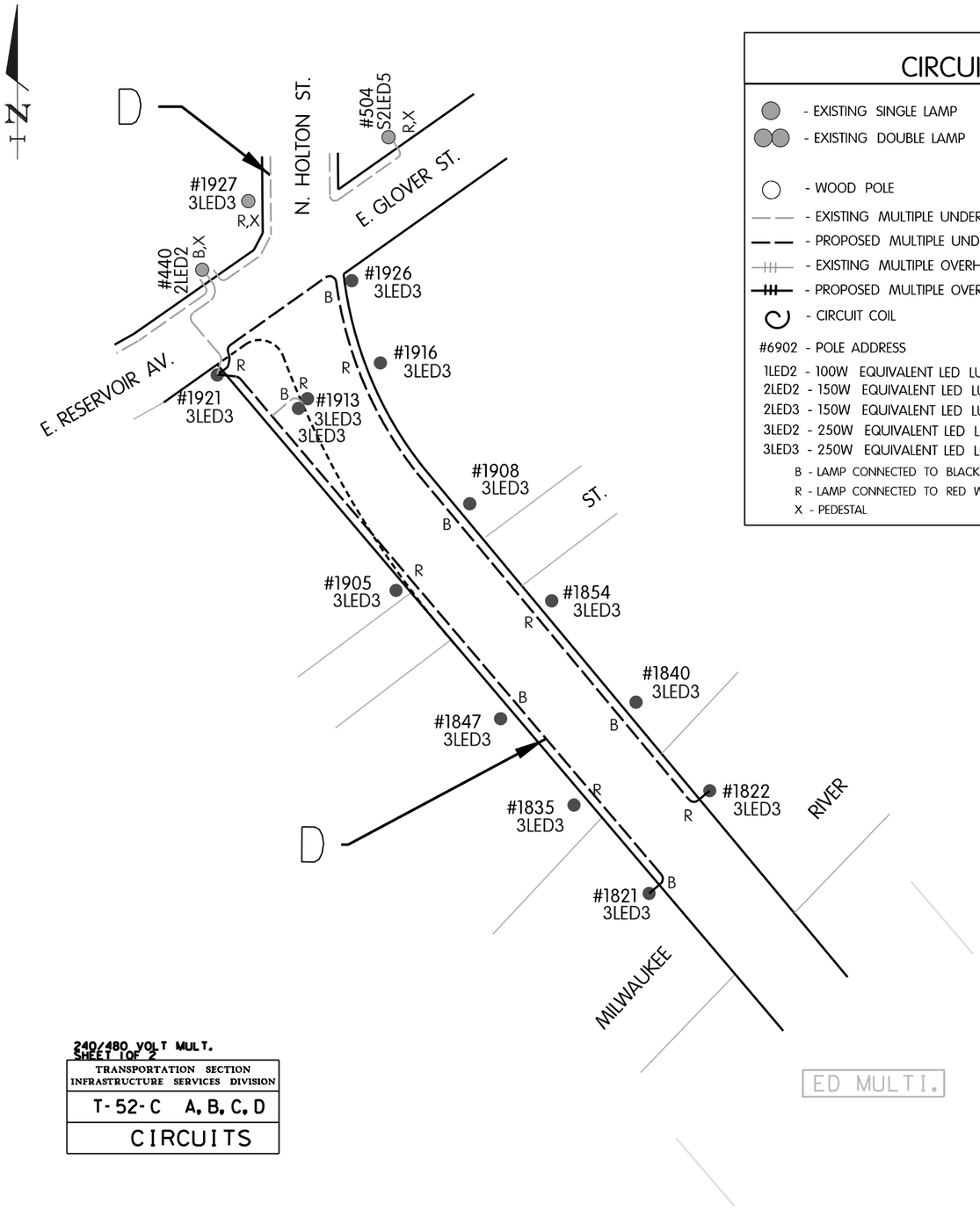
- 600 VOLT RATED, UP TO 30 AMPS.
- 1-POLE BREAKAWAY, CRIMP TERMINALS FOR LOAD,
- WIRE SIZE RANGE #12 TO #8 AWG.
- FAST ACTING 5 AMP. 250 VOLT FUSE

RECOMMENDED FROM FUSE LIST FROM IN-LINE FUSE HOLDER MANUFACTURER

SHEET 3 OF 3

PROJECT NO. 2984-12-73	HWY: N. HOLTON ST.	COUNTY: MILWAUKEE	STREET LIGHTING - PHASE 3 - PERMANENT ON HOLTON ST. BRIDGE	SHEET 10	E



240/480 VOLT MULT.
SHEET 1 OF 2

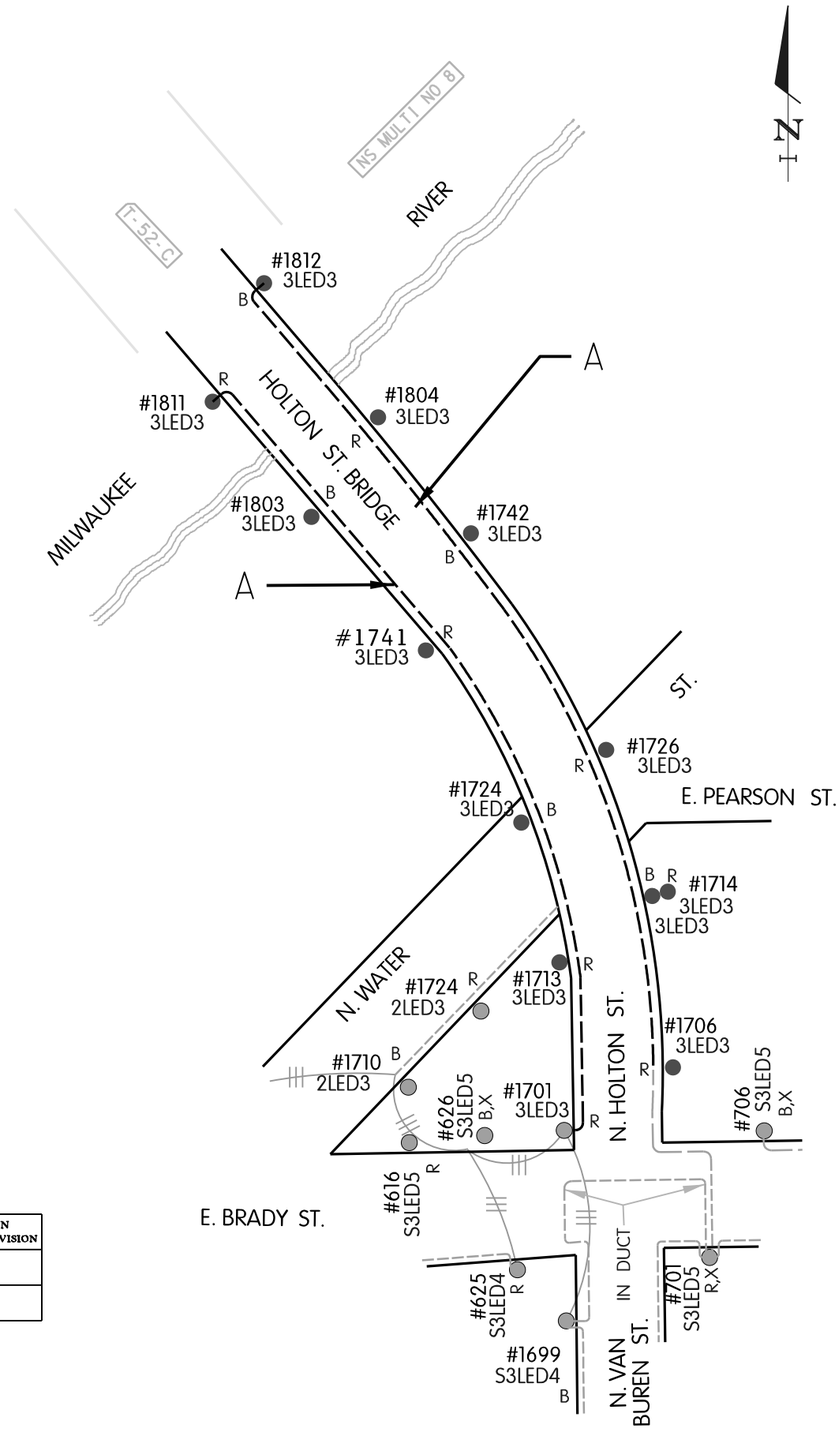
TRANSPORTATION SECTION INFRASTRUCTURE SERVICES DIVISION
T-52-C A, B, C, D
CIRCUITS

CIRCUIT LEGEND

- EXISTING SINGLE LAMP
- PROPOSED SINGLE LAMP
- EXISTING DOUBLE LAMP
- PROPOSED DOUBLE LAMP
- WOOD POLE
- EXISTING MULTIPLE UNDERGROUND CIRCUIT
- PROPOSED MULTIPLE UNDERGROUND CIRCUIT
- EXISTING MULTIPLE OVERHEAD CIRCUIT
- PROPOSED MULTIPLE OVERHEAD CIRCUIT
- CIRCUIT COIL
- #6902 - POLE ADDRESS

1LED2 - 100W EQUIVALENT LED LUMINAIRE WITH TYPE 2 LIGHT DISTRIBUTION
2LED2 - 150W EQUIVALENT LED LUMINAIRE WITH TYPE 2 LIGHT DISTRIBUTION
2LED3 - 150W EQUIVALENT LED LUMINAIRE WITH TYPE 3 LIGHT DISTRIBUTION
3LED2 - 250W EQUIVALENT LED LUMINAIRE WITH TYPE 2 LIGHT DISTRIBUTION
3LED3 - 250W EQUIVALENT LED LUMINAIRE WITH TYPE 3 LIGHT DISTRIBUTION

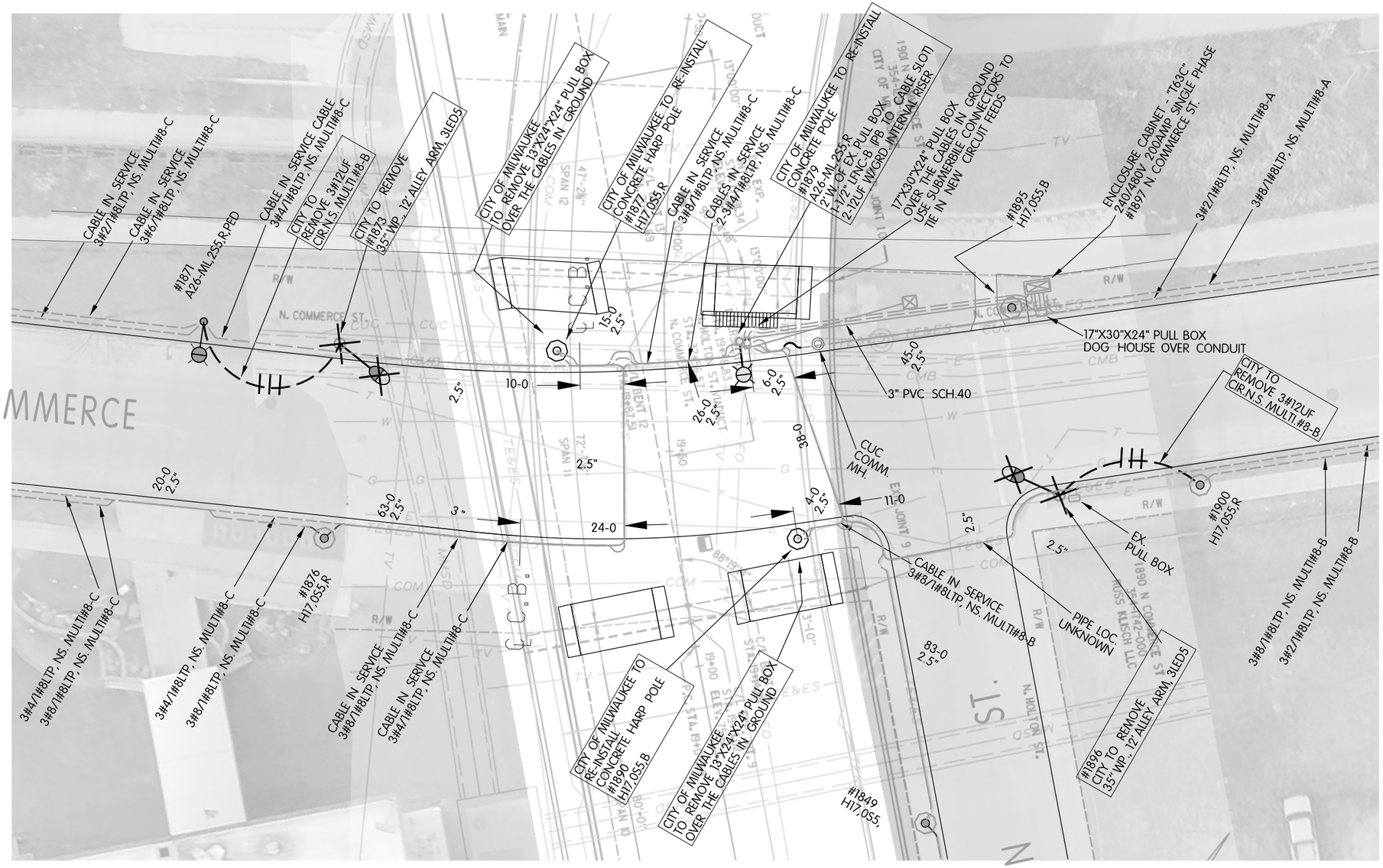
B - LAMP CONNECTED TO BLACK WIRE
R - LAMP CONNECTED TO RED WIRE
X - PEDESTAL



240/480 VOLT MULT.
SHEET 3 OF 4

TRANSPORTATION SECTION INFRASTRUCTURE SERVICES DIVISION
ED A, G
CIRCUITS

PROJECT NO. 2984-12-73	HWY: N. HOLTON ST.	COUNTY: MILWAUKEE	STREET LIGHTING - PHASE 3 - PERMANENT CIRCUIT LAYOUT	SHEET 11	E



PROJECT NO. 2984-12-73	HWY: N. HOLTON ST.	COUNTY: MILWAUKEE	STREET LIGHTING - PHASE 3 - PERMANENT ON N. COMMERCE ST.	SHEET 12	E

STAGE I

N. HOLTON ST. VIADUCT

RIVER

E. GLOVER AVE.

N. HOLTON ST.

N. COMMERCE ST.

N. WATER ST.

E. BRADY ST.

N. VAN BUREN AVE.

SWING PARK
CLOSED BY OTHERS

NOTE:

MAINTAIN 8' CLEARANCE ON
MARSUPIAL BRIDGE AT ALL TIMES.

SEE SDD 15D28: TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

WORK ZONE LIMITED TO BIKE LANE & SIDEWALK

LEGEND

R9-9
SIDEWALK CLOSED
24" X12"
1

M4-9-R
DETOUR
30" X24"
3

R3-2
24" X24"
5

R11-2
ROAD CLOSED
48" X30"
7

M4-9-L
DETOUR
30" X24"
2

W20-1
ROAD WORK AHEAD
48" X48"
4

W20-3
ROAD CLOSED AHEAD
48" X48"
6

R11-4
ROAD CLOSED TO THRU TRAFFIC
48" X30"
8

WORK AREA

TRAFFIC CONTROL BARRICADES TYPE II WITH ONE WARNING LIGHT TYPE A AND ATTACHED TRAFFIC CONTROL SIGNS

TRAFFIC CONTROL BARRICADES TYPE III WITH TWO WARNING LIGHTS TYPE A

TRAFFIC CONTROL BARRICADES TYPE III WITH TWO WARNING LIGHTS TYPE A AND ATTACHED TRAFFIC CONTROL SIGNS

TRAFFIC FLOW DIRECTION

SHEET 1 OF 3

STATE PROJECT NUMBER 2984-12-75 - -	HWY: N HOLTON ST	COUNTY: MILWAUKEE	TRAFFIC CONTROL	SCALE FEET 0' 80'	SHEET NO: 13	E

FILENAME: W:\STR\B0113\2025 PHASE 3\MAJOR PROJECTS\TC OVERVIEW PHASE 3.DGN

REVISED DATE: 08-26-2024 BY SLB

2

STAGE 1A

E. GLOVER AVE.

N. HOLTON ST.

N. COMMERCE ST.

RIVER

N. HOLTON ST. VIADUCT

N. WATER ST.

E. PEARSON ST.

E. BRADY ST.

VACATED

N. VAN BUREN AVE.

500'

N

NOTE:

MAINTAIN 8' CLEARANCE ON MARSUPIAL BRIDGE AT ALL TIMES.

SEE SDD 15D28: TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

LEGEND

R9-9 SIDEWALK CLOSED 24" X12"	1	
M4-9-L DETOUR 30" X24"	2	
M4-9-R DETOUR 30" X24"	3	
W20-1 ROAD WORK AHEAD 48" X48"	4	
R3-2 24" X24"	5	
W20-3 ROAD CLOSED AHEAD 48" X48"	6	
R11-2 ROAD CLOSED 48" X30"	7	
R11-4 ROAD CLOSED TO THRU TRAFFIC 48" X30"	8	

WORK AREA

TRAFFIC CONTROL BARRICADES TYPE II WITH ONE WARNING LIGHT TYPE A AND ATTACHED TRAFFIC CONTROL SIGNS

TRAFFIC CONTROL BARRICADES TYPE III WITH TWO WARNING LIGHTS TYPE A

TRAFFIC CONTROL BARRICADES TYPE III WITH TWO WARNING LIGHTS TYPE A AND ATTACHED TRAFFIC CONTROL SIGNS

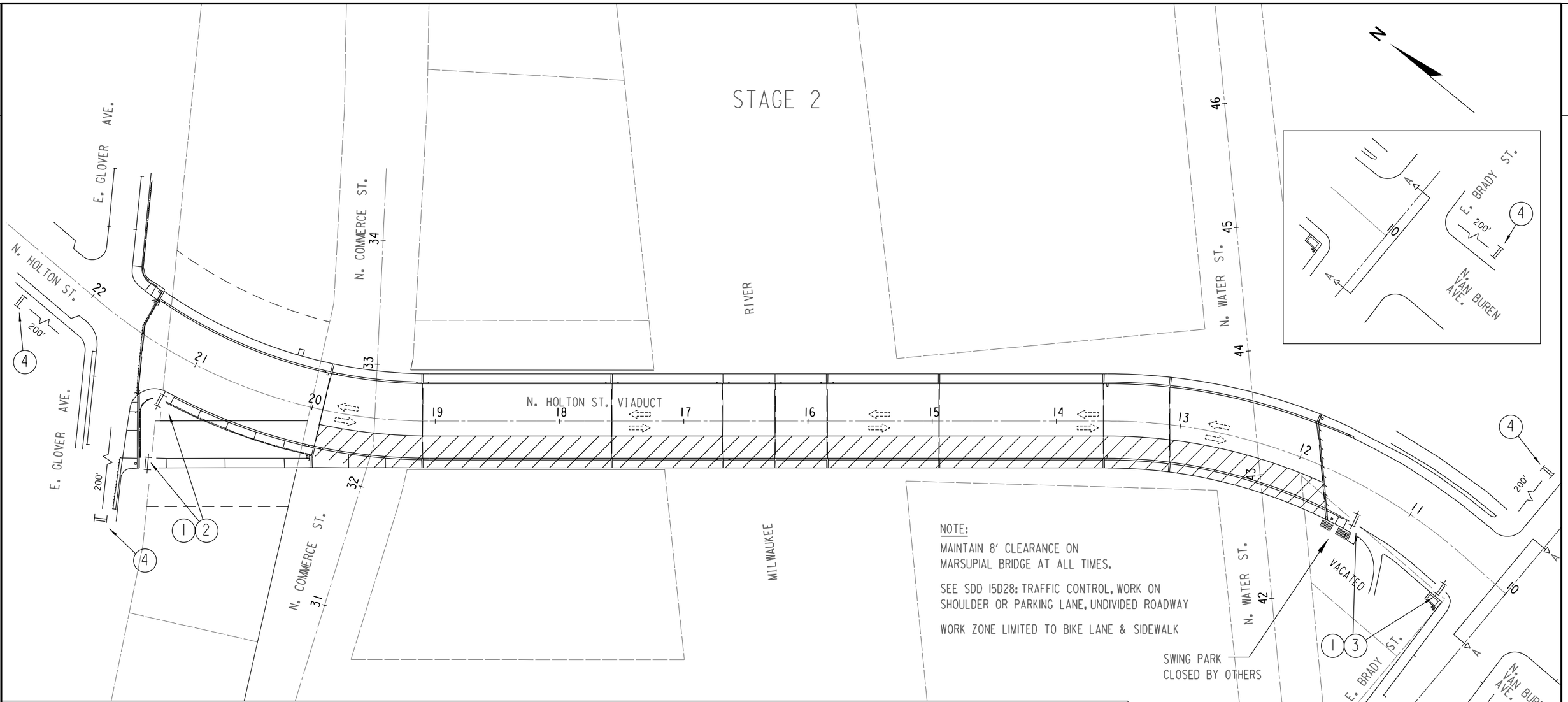
TRAFFIC FLOW DIRECTION

SHEET 2 OF 3

STATE PROJECT NUMBER 2984-12-75 - -	HWY: N HOLTON ST	COUNTY: MILWAUKEE	TRAFFIC CONTROL	SCALE FEET 0' 80'	SHEET NO: 14	E

FILENAME: W:\STR\B0113\2025 PHASE 3\MAJOR PROJECTS\TC OVERVIEW PHASE 3.DGN

REVISED DATE: 08-26-2024 BY SLB



LEGEND

R9-9 — SIDEWALK CLOSED — 24" X12" — 1

M4-9-L — DETOUR — 30" X24" — 2

M4-9-R — DETOUR — 30" X24" — 3

W20-1 — ROAD WORK AHEAD — 48" X48" — 4

R3-2 — 24" X24" — 5

W20-3 — ROAD CLOSED AHEAD — 48" X48" — 6

R11-2 — ROAD CLOSED — 48" X30" — 7

R11-4 — ROAD CLOSED TO THRU TRAFFIC — 48" X30" — 8

WORK AREA

TRAFFIC CONTROL BARRICADES TYPE II WITH ONE WARNING LIGHT TYPE A AND ATTACHED TRAFFIC CONTROL SIGNS

TRAFFIC CONTROL BARRICADES TYPE III WITH TWO WARNING LIGHTS TYPE A

TRAFFIC CONTROL BARRICADES TYPE III WITH TWO WARNING LIGHTS TYPE A AND ATTACHED TRAFFIC CONTROL SIGNS

TRAFFIC FLOW DIRECTION

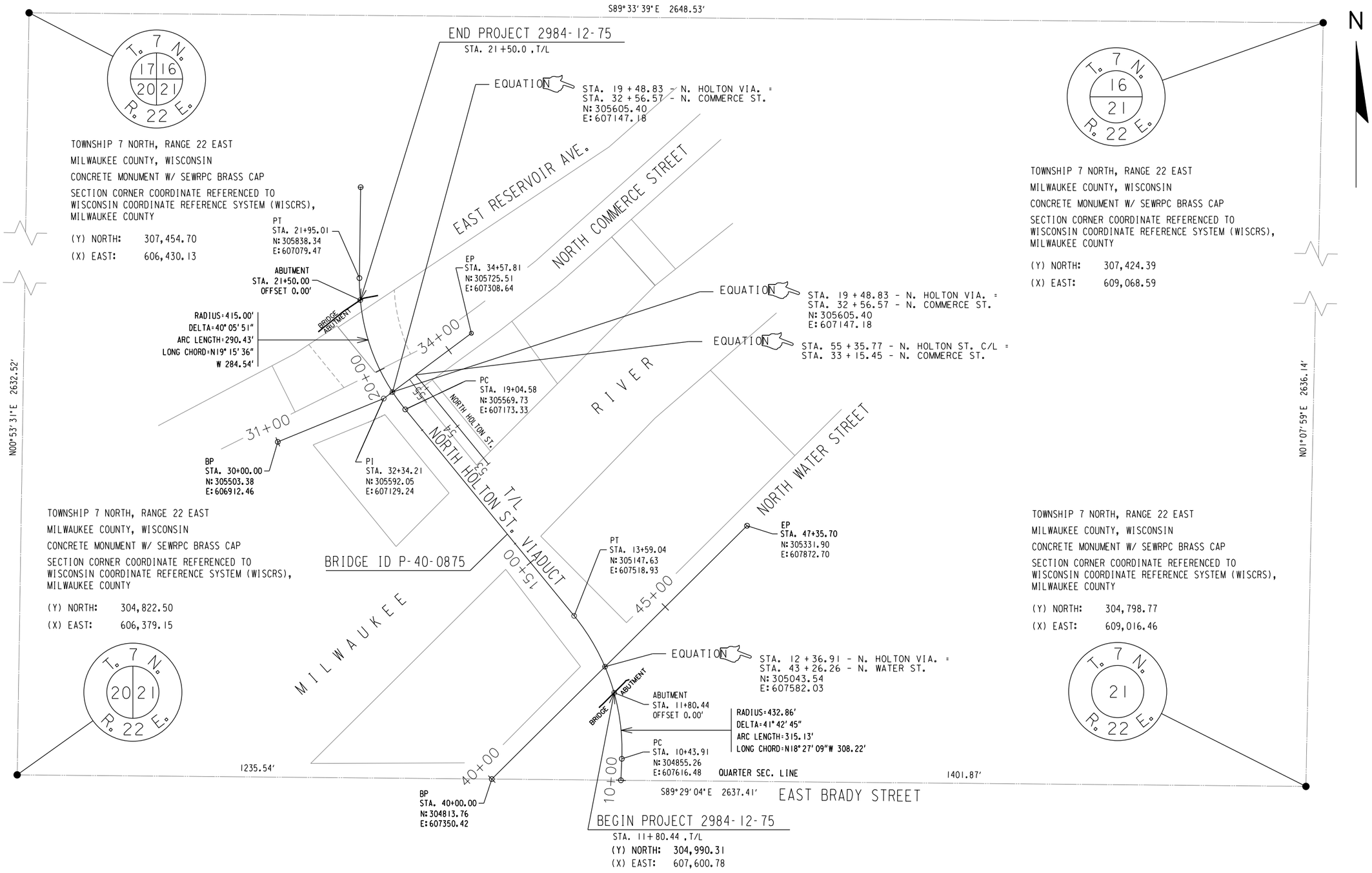
SHEET 3 OF 3

STATE PROJECT NUMBER 2984-12-75 - -	HWY: N HOLTON ST	COUNTY: MILWAUKEE	TRAFFIC CONTROL	SCALE FEET 0' 80'	SHEET NO: 15	E

FILENAME: W:\STR\BOI13\2025 PHASE 3\MAJOR PROJECTS\TC OVERVIEW PHASE 3.DGN

REVISED DATE: 08-26-2024 BY SLB

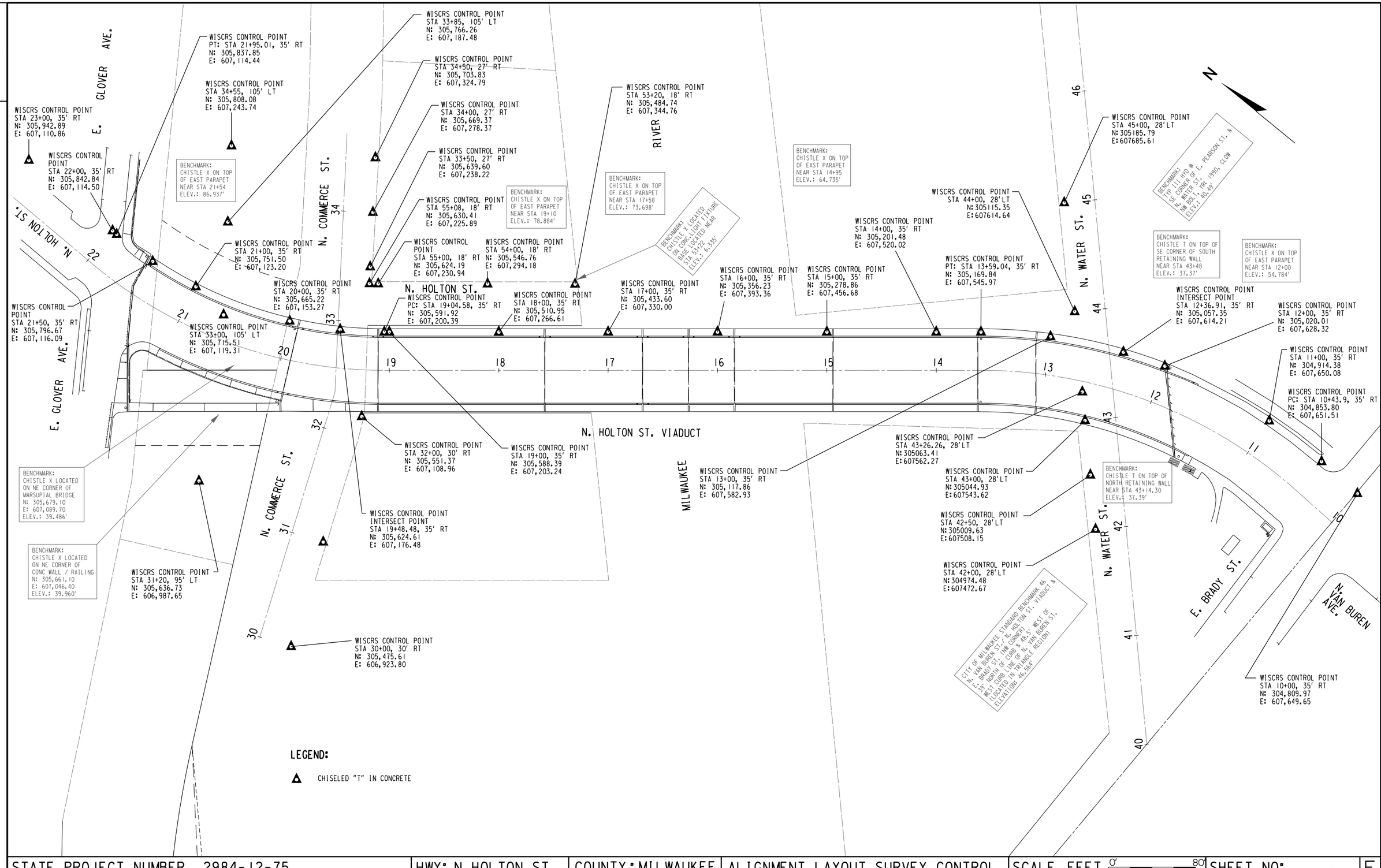
2



STATE PROJECT NUMBER 2984-12-75	HWY: N HOLTON ST	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SCALE FEET 0' 200'	SHEET NO: 16	E

FILENAME: W:\STR\BOI13\2025 PHASE 3\MAJOR PROJECTS\ALIGNMENT.DGN

REVISED DATE: 12-08-2023 BY SB



STATE PROJECT NUMBER 2984-12-75	HWY: N HOLTON ST	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT SURVEY CONTROL	SCALE FEET 0' 80'	SHEET NO: 17	E

FILENAME: W:\STR\B0113\2025 PHASE 3\MAJOR PROJECTS\SURVEY CONTROL.DGN

REVISED DATE: 10-29-2024 BY DB

Estimate Of Quantities

2984-12-75

Line	Item	Item Description	Unit	Total	Qty
0002	203.0270	Removing Structure Over Waterway Debris Capture (structure) 001. P-40-875	EACH	1.000	1.000
0004	204.0155	Removing Concrete Sidewalk	SY	9.000	9.000
0006	506.0105	Structural Steel Carbon	LB	8,000.000	8,000.000
0008	517.0601	Painting Epoxy System (structure) 001. P-40-875	EACH	1.000	1.000
0010	517.1801.S	Structure Repainting Recycled Abrasive (structure) 001. P-40-875	EACH	1.000	1.000
0012	517.4501.S	Negative Pressure Containment and Collection of Waste Materials (structure) 001. P-40-875	EACH	1.000	1.000
0014	517.6001.S	Portable Decontamination Facility	EACH	1.000	1.000
0016	602.0410	Concrete Sidewalk 5-Inch	SF	81.000	81.000
0018	619.1000	Mobilization	EACH	1.000	1.000
0020	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0022	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0024	628.7015	Inlet Protection Type C	EACH	24.000	24.000
0026	642.5201	Field Office Type C	EACH	1.000	1.000
0028	643.0410	Traffic Control Barricades Type II	DAY	500.000	500.000
0030	643.0420	Traffic Control Barricades Type III	DAY	515.000	515.000
0032	643.0705	Traffic Control Warning Lights Type A	DAY	1,530.000	1,530.000
0034	643.0900	Traffic Control Signs	DAY	1,305.000	1,305.000
0036	643.5000	Traffic Control	EACH	1.000	1.000
0038	655.0305	Cable Type UF 2-12 AWG Grounded	LF	50.000	50.000
0040	674.0300	Remove Cable	LF	2,400.000	2,400.000
0042	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 001. P-40-875	EACH	1.000	1.000
0044	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,700.000	2,700.000
0046	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	9,000.000	9,000.000
0048	SPV.0060	Special 310. Removing Poles	EACH	1.000	1.000
0050	SPV.0060	Special 320. Installing City Furnished Poles Type 26-AL-BD	EACH	4.000	4.000
0052	SPV.0060	Special 330. Install Phase One Purchased Anchor Base Adapter	EACH	4.000	4.000
0054	SPV.0060	Special 342. Submersible Multitap 3 Port Pre-Insulated Connector	EACH	60.000	60.000
0056	SPV.0060	Special 343. Submersible Multitap 4 Port Pre-Insulated Connector	EACH	6.000	6.000
0058	SPV.0060	Special 345. Installing City Furnished Luminaire Arms Single Member 6-Ft. (Special)	EACH	5.000	5.000
0060	SPV.0060	Special 371. Installing City Furnished Luminaire Utility LED	EACH	2.000	2.000
0062	SPV.0060	Special 516. Temporary Shoring for Pier 7 and 8 repairs	EACH	1.000	1.000
0064	SPV.0060	Special 597. Protecting Utilities	EACH	1.000	1.000
0066	SPV.0090	Special 314. Remove Aerial Cable	LF	2,280.000	2,280.000
0068	SPV.0090	Special 321. Electrical Cable Type 4#8/1#8 XLPE	LF	1,800.000	1,800.000
0070	SPV.0090	Special 322. Electrical Cable Type 4#6/1#8 XLPE	LF	600.000	600.000
0072	SPV.0090	Special 571. Concrete Haunches Removal	LF	5,650.000	5,650.000

MOBILIZATION

CATEGORY 0010

LOCATION	619.1000 MOBILIZATION EACH
PROJECT 2984-12-75	1
TOTAL	1

EROSION CONTROL ITEM

CATEGORY 0010

LOCATION	628.7015 INLET PROTECTION TYPE C EACH
N. HOLTON STREET	24
TOTALS	24

MOBILIZATIONS EROSION CONTROL

CATEGORY 0010

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT 2984-12-75	1	5
TOTALS	1	5

FIELD OFFICE

CATEGORY 0010

LOCATION	642.5201 FIELD OFFICE TYPE C EACH
PROJECT 2984-12-75	1
TOTAL	1

3

TRAFFIC CONTROL ITEMS

CATEGORY 0010

LOCATION	DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAY	643.0420 CONTROL BARRICADES TYPE III EACH	643.0420 CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAY
STAGE 1	50	5	250	3	150	11	550	11	550
STAGE 1A	15	-	-	11	165	22	330	7	105
STAGE 2	50	5	250	4	200	13	650	13	650
TOTALS			500		515		1,530		1,305

(1) All Type II Barricades have one Type A Flashing Light.
(2) All Type III Barricades have two Type A Flashing Lights.

TRAFFIC CONTROL

CATEGORY 0010

LOCATION	643.5000 TRAFFIC CONTROL EACH
PROJECT 2984-12-75	1
TOTAL	1

BIRD DETERRENT

CATEGORY 0020

LOCATION	999.2000.S INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM P-40-0875 EACH
N. HOLTON STREET	1
TOTAL	1

3

REMOVAL OF TEMPORARY STREET LIGHTING

ALL ITEMS CATEGORY 0010

Std.Bid Item No.	Description	Unit	Quantity
204.0155	REMOVING CONCRETE SIDEWALK	SY	9
602.0410	CONCRETE SIDEWALK 5-INCH	SF	81
SPV.0060.310	REMOVING POLES	EACH	1
SPV.0090.314	REMOVE AERIAL CABLE	LF	2,280

(THESE QUANTITIES DO NOT INCLUDE THE MATERIALS IN/ON THE BRIDGE)
SUCH AS: CONDUIT, AND LIGHT POLE ANCHORAGE

3

PERMANENT STREET LIGHTING

ALL ITEMS CATEGORY 0010

Std.Bid Item No.	Description	Unit	Quantity
655.0305	CABLE TYPE UF 2-12 AWG GROUNDED	LF	50
674.0300	REMOVE CABLE	LF	2,400
SPV.0060.320	INSTALLING CITY FURNISHED POLES TYPE 26-AL-BD	EACH	4
SPV.0060.330	INSTALL PHASE ONE PURCHASED ANCHOR BASE ADAPTER	EACH	4
SPV.0060.342	SUBMERSIBLE MULTITAP 3 PORT PRE-INSULATED CONNECTOR	EACH	60
SPV.0060.343	SUBMERSIBLE MULTITAP 4 PORT PRE-INSULATED CONNECTOR	EACH	6
SPV.0060.345	INSTALLING CITY FURNISHED LUMINAIRE ARMS SINGLE MEMBER 6-Ft (SPECIAL)	EACH	5
SPV.0060.371	INSTALLING CITY FURNISHED LUMINAIRE UTILITY LED	EACH	2
	Total Number of Luminaire Utility LED (3LED3) = 2		
SPV.0090.321	ELECTRICAL CABLE TYPE 4#8/1#8 XLP	LF	1,800
SPV.0090.322	ELECTRICAL CABLE TYPE 4#6/1#8 XLP	LF	600

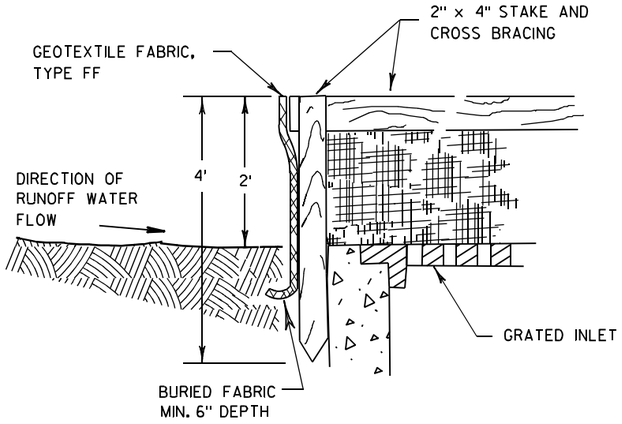
(THESE QUANTITIES DO NOT INCLUDE THE MATERIALS IN/ON THE BRIDGE)
SUCH AS: CONDUIT, AND LIGHT POLE ANCHORAGE

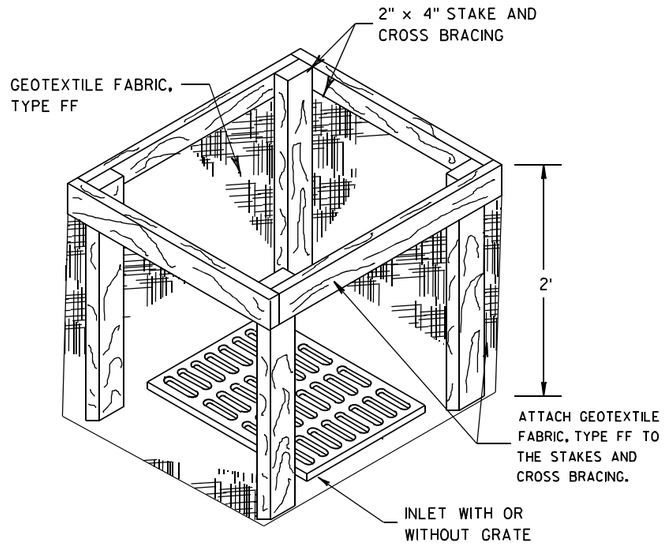
Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D12-13A	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE

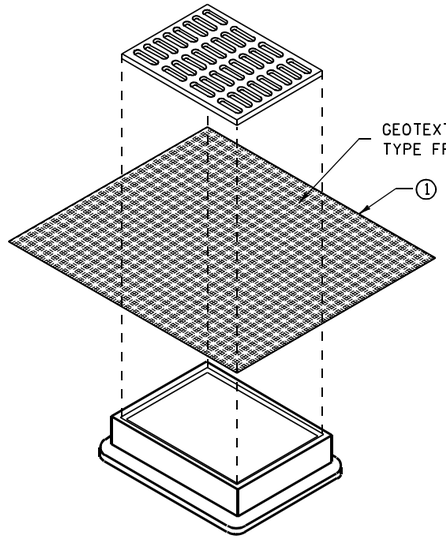
6

6



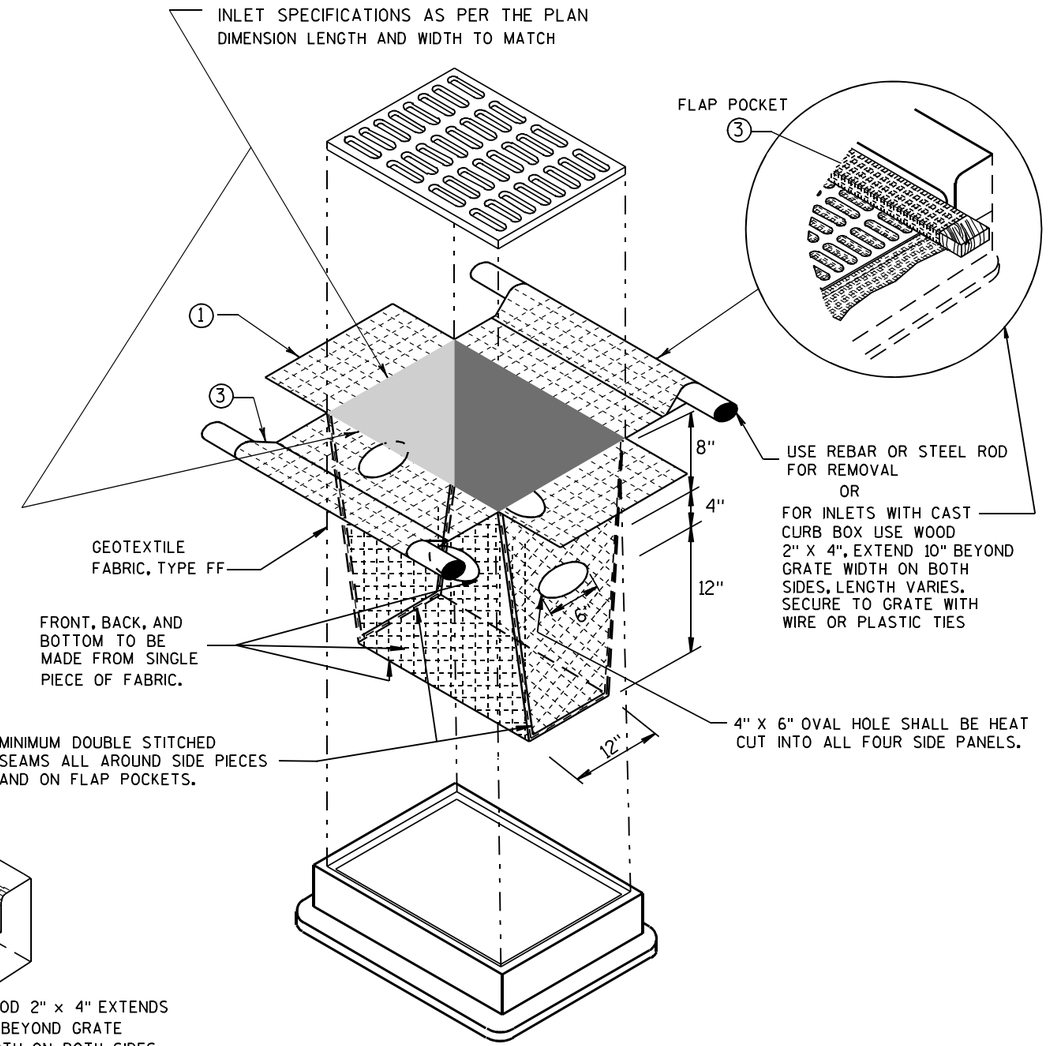


INLET PROTECTION, TYPE A



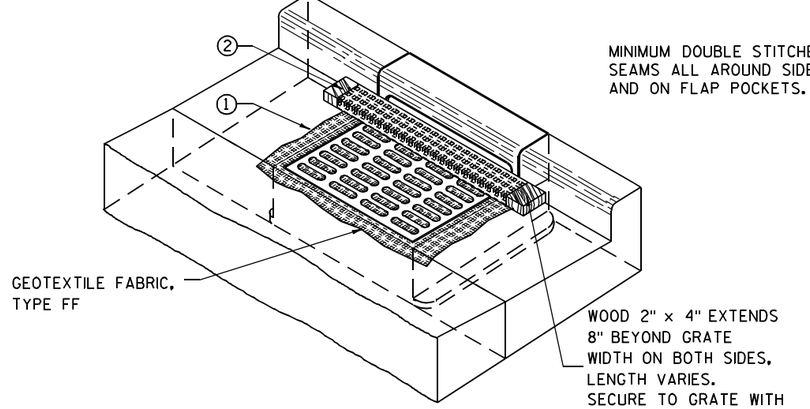
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

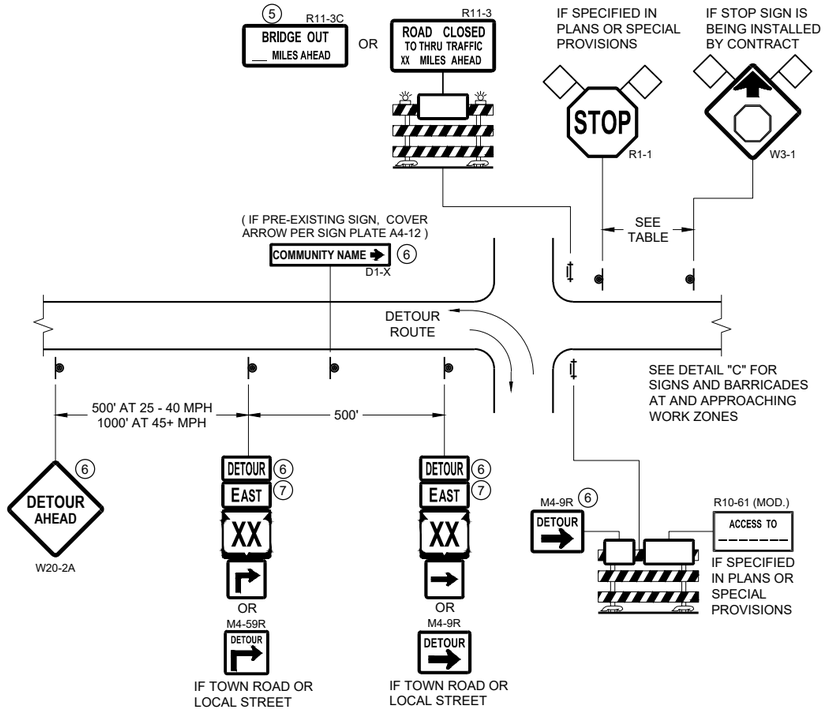
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

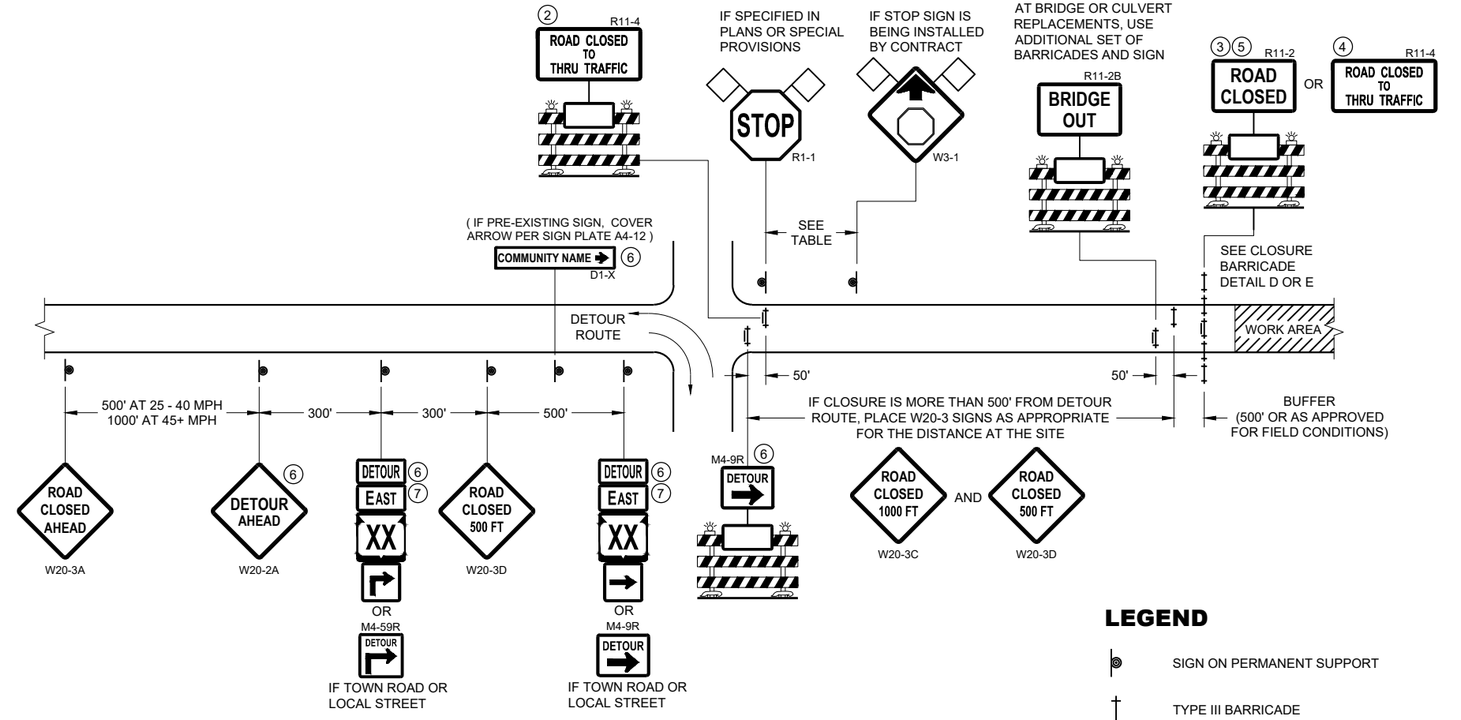
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



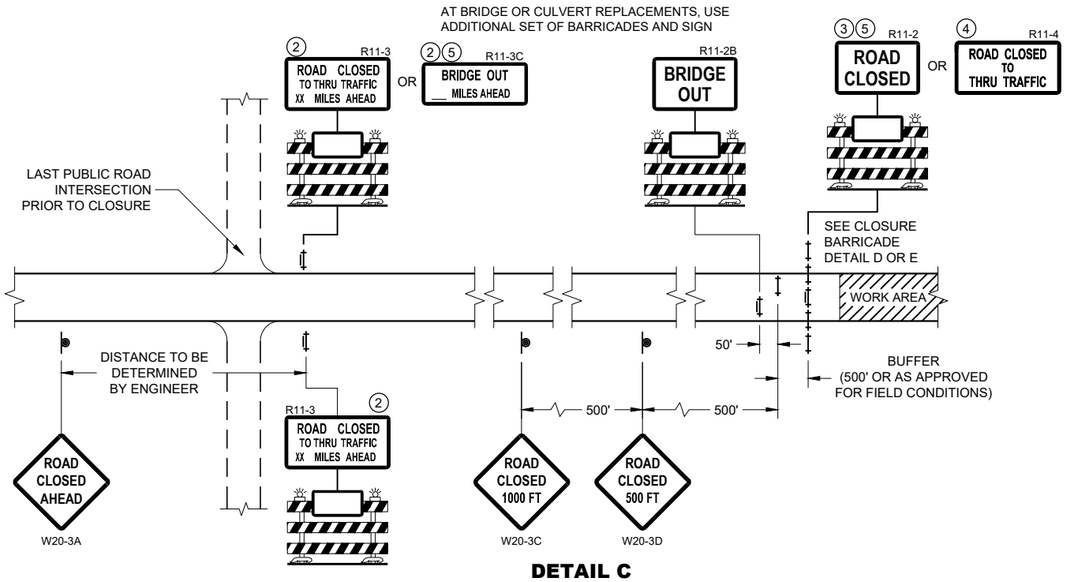
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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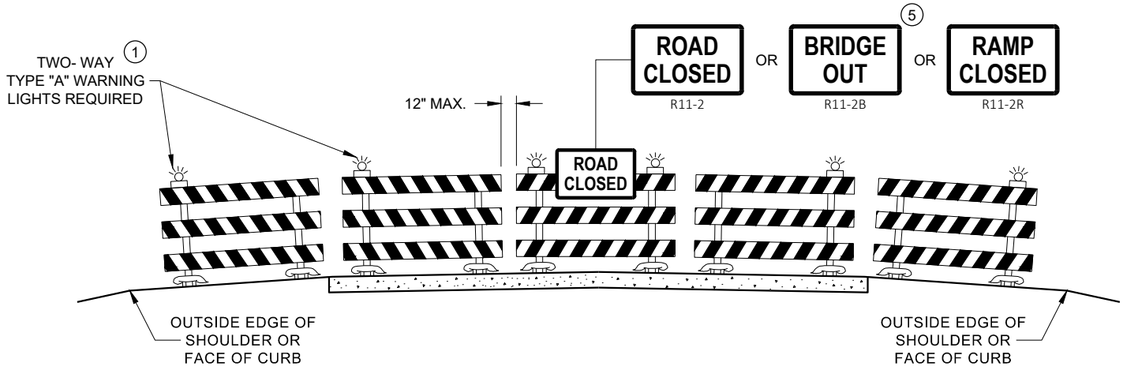
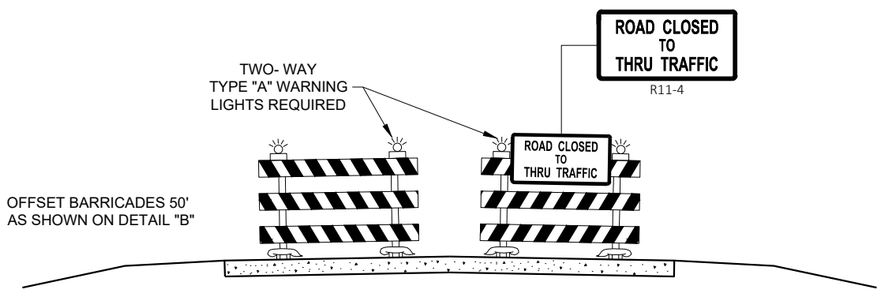
SDD 15C02 - 09a

SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15C02 - 09b

6

SDD 15C02 - 09b

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

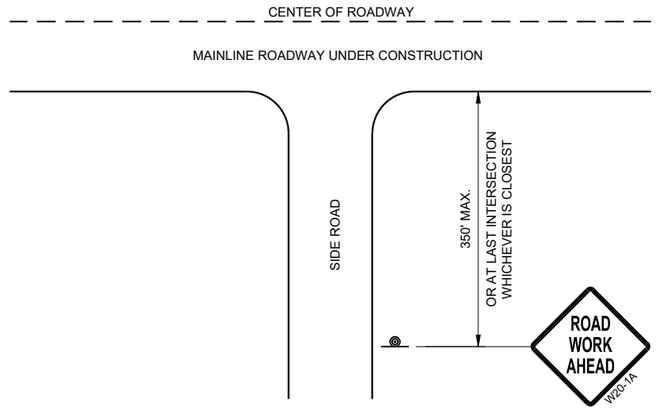
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



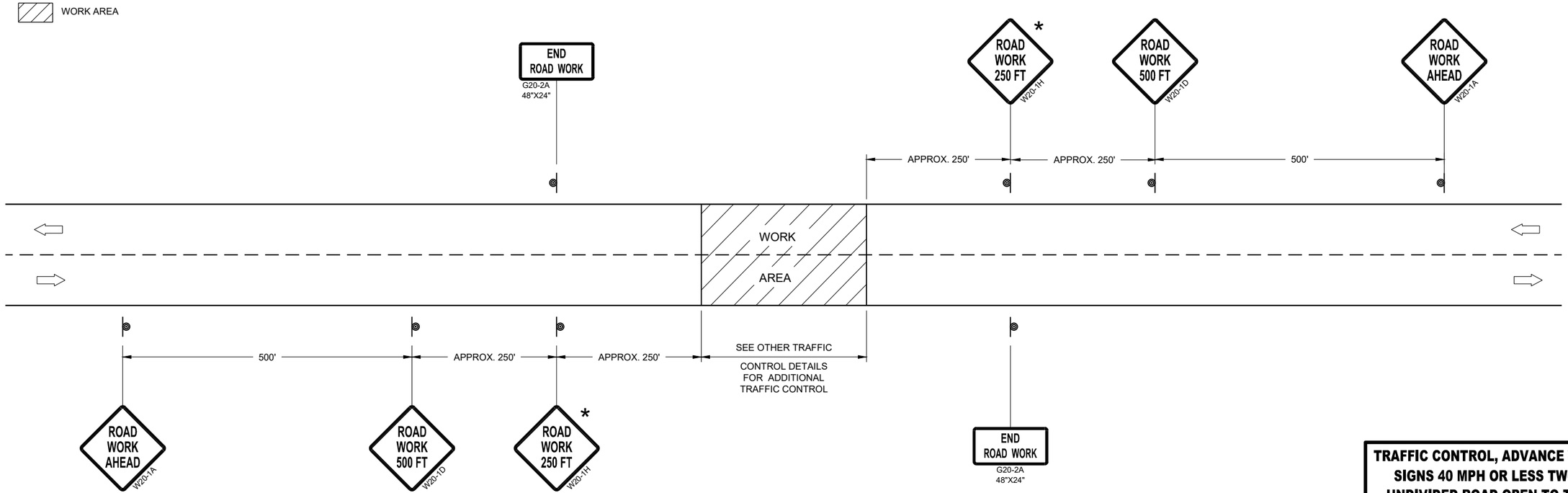
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

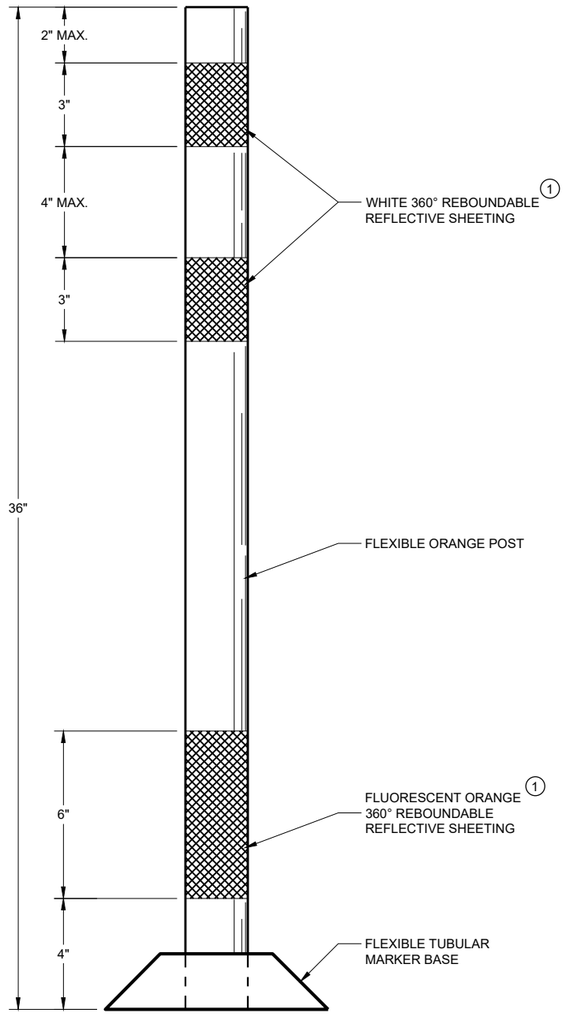
APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C05 - 05



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

SDD 15C11 - 10a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

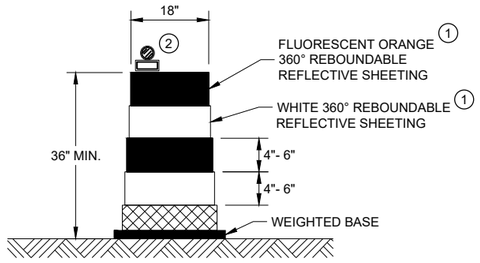
FHWA

6

SDD 15C11 - 10a

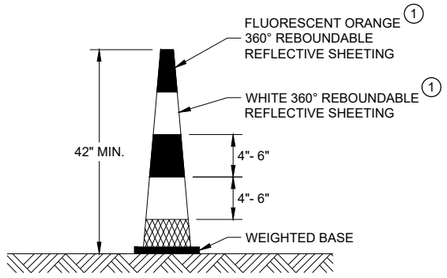
GENERAL NOTES

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

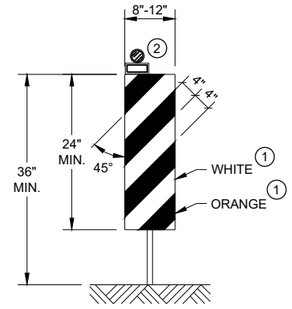
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

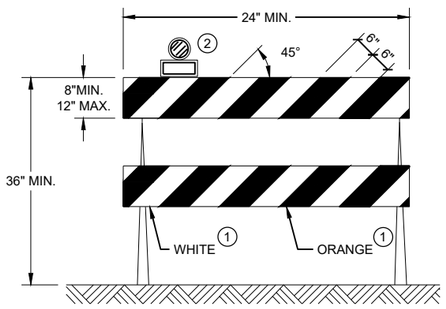
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



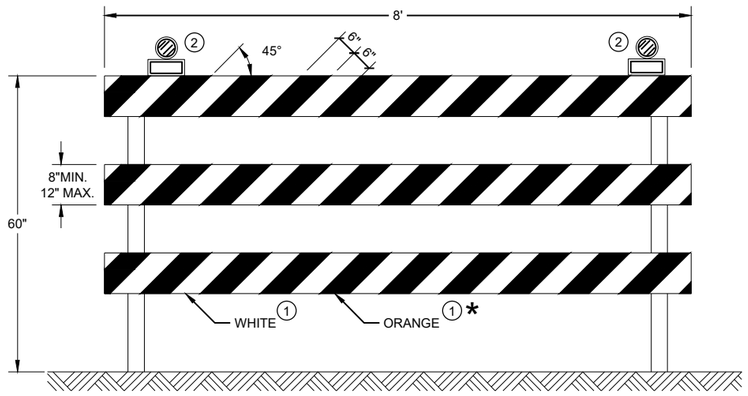
VERTICAL PANEL

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

6

SDD 15C11 - 10b
SDD 15C11 - 10b

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.

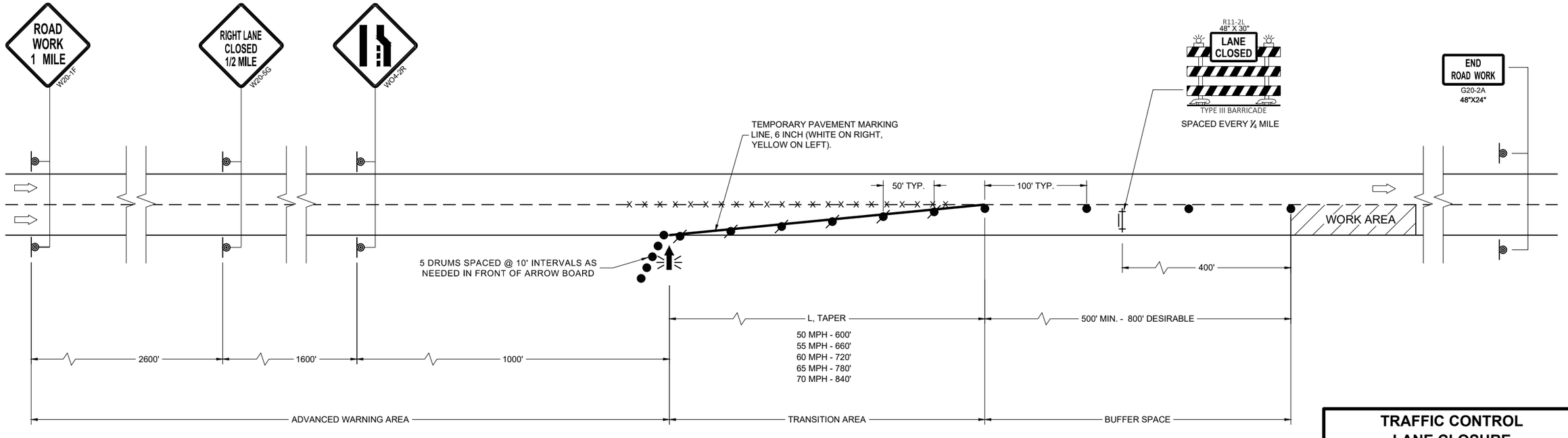
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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
March 2024 — DATE
/S/ Andrew Heidtke — Work Zone Engineer
FHWA

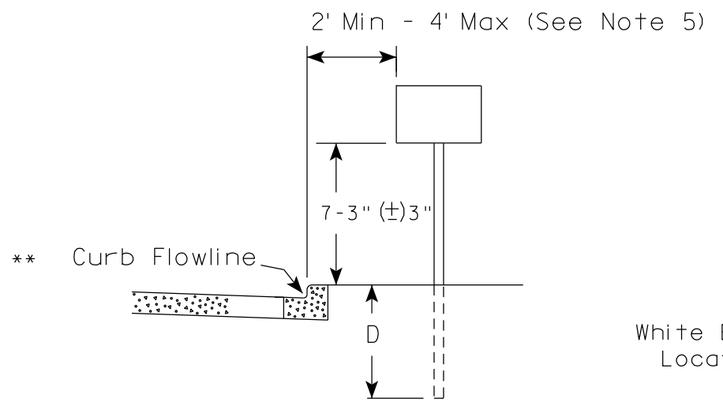
6

SDD 15D12-13a

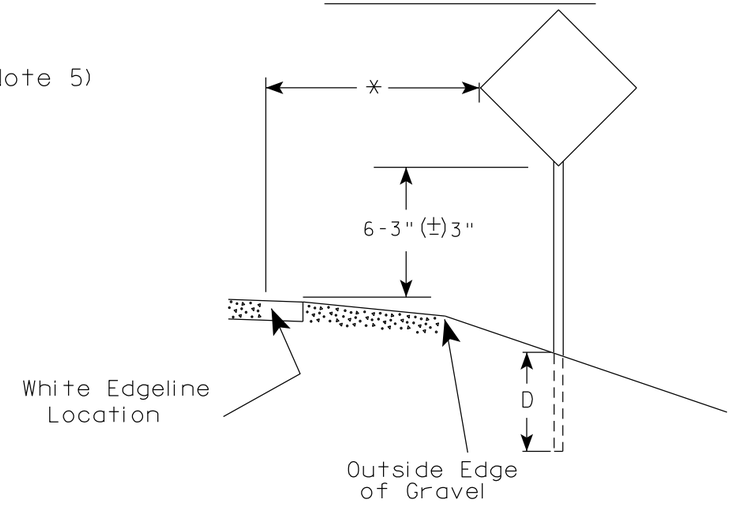
6

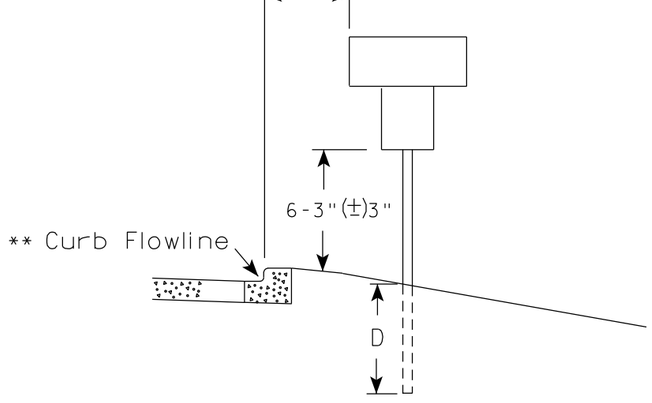
SDD 15D12-13a

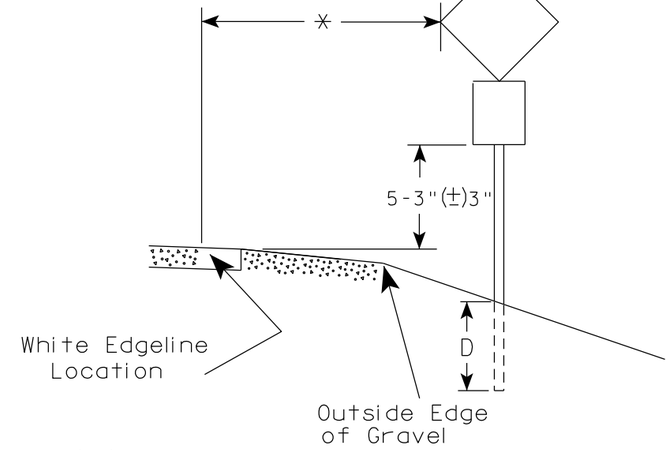
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

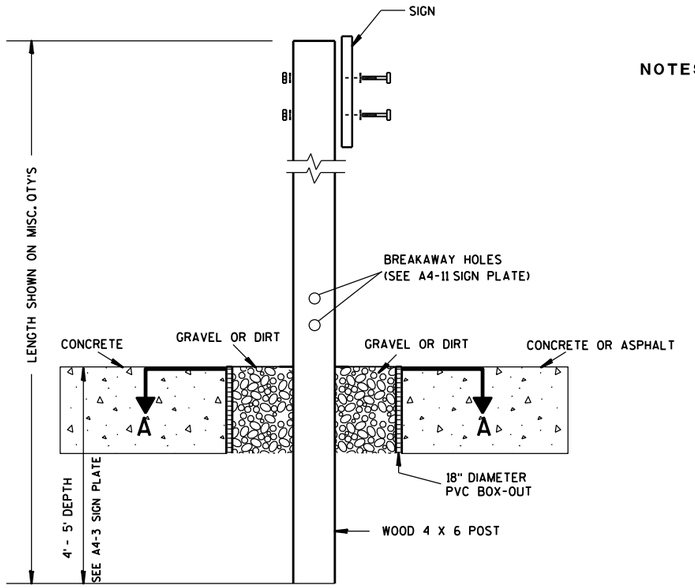
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

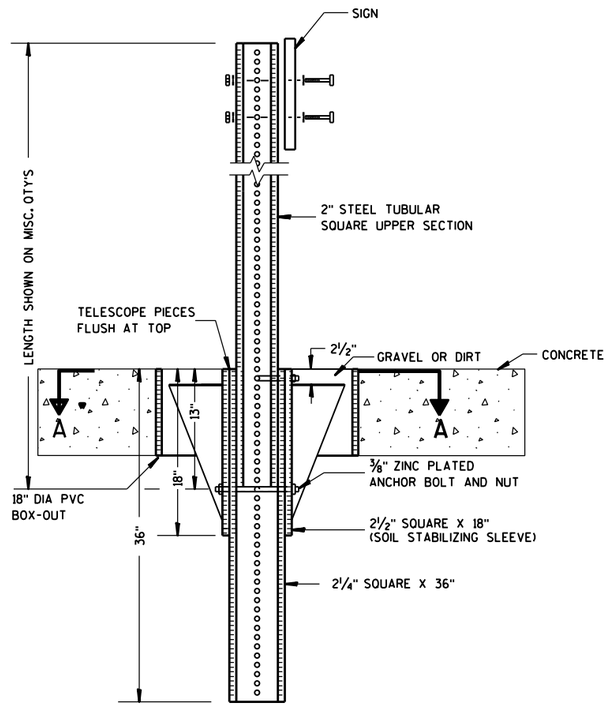
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 29	E



ELEVATION VIEW

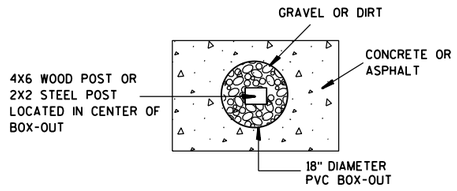
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

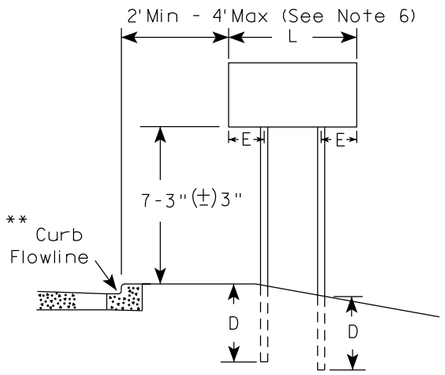
APPROVED Matthew R Rauch
for State Traffic Engineer

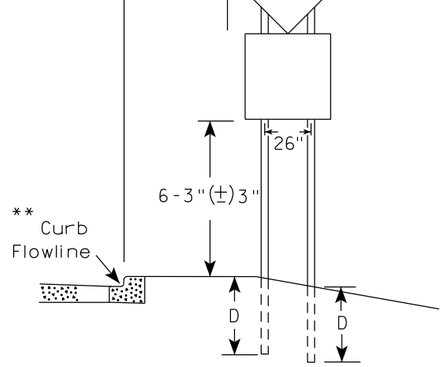
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

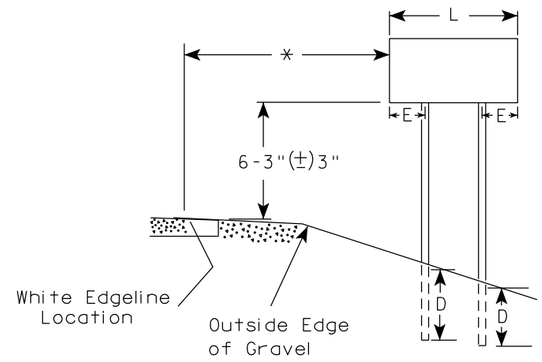
URBAN AREA

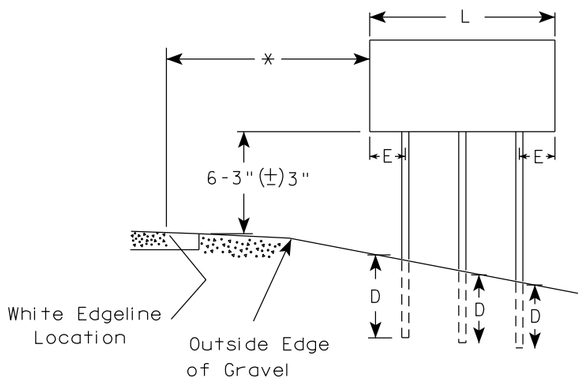


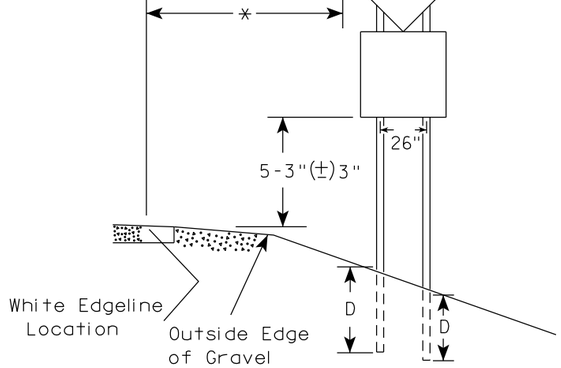


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

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"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

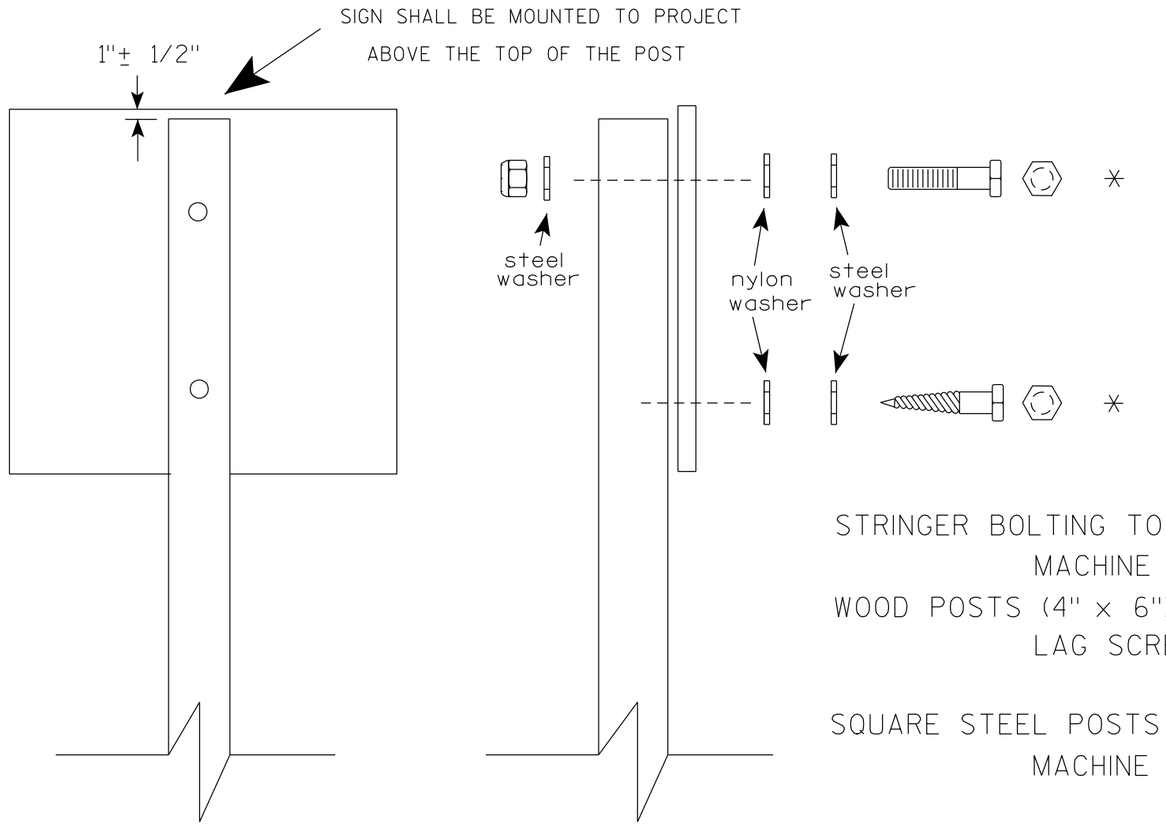
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 31	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

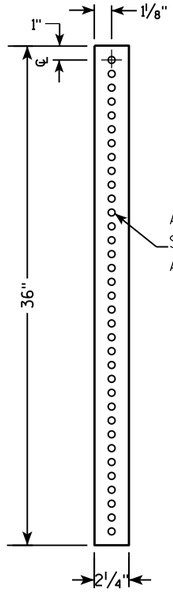
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

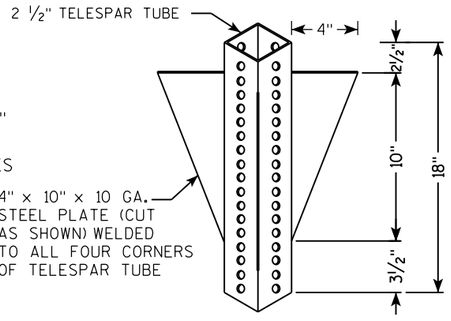
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

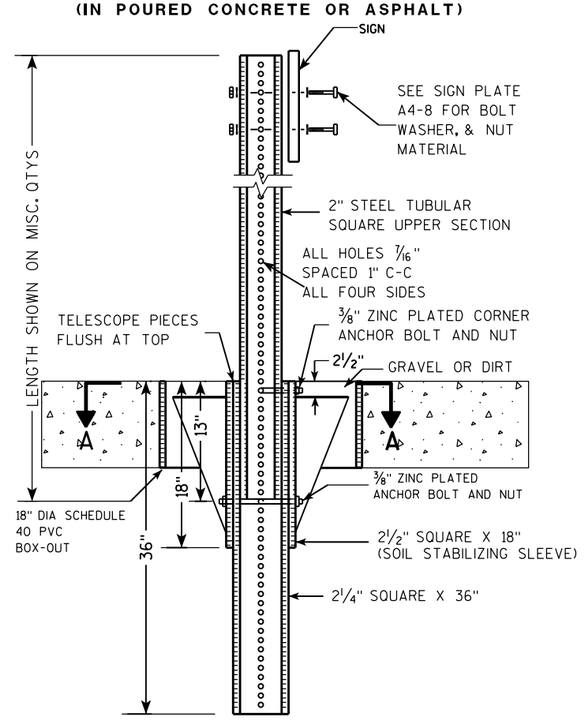
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



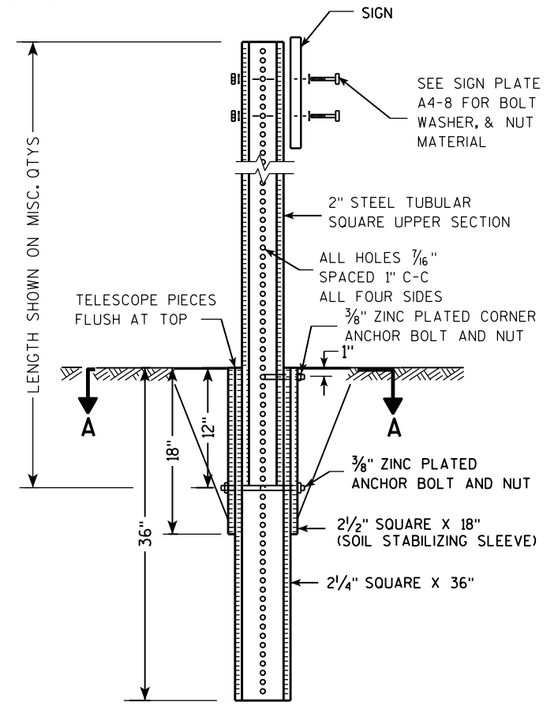
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

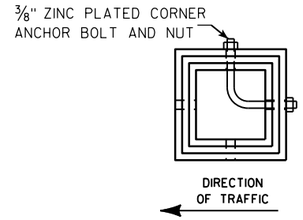


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

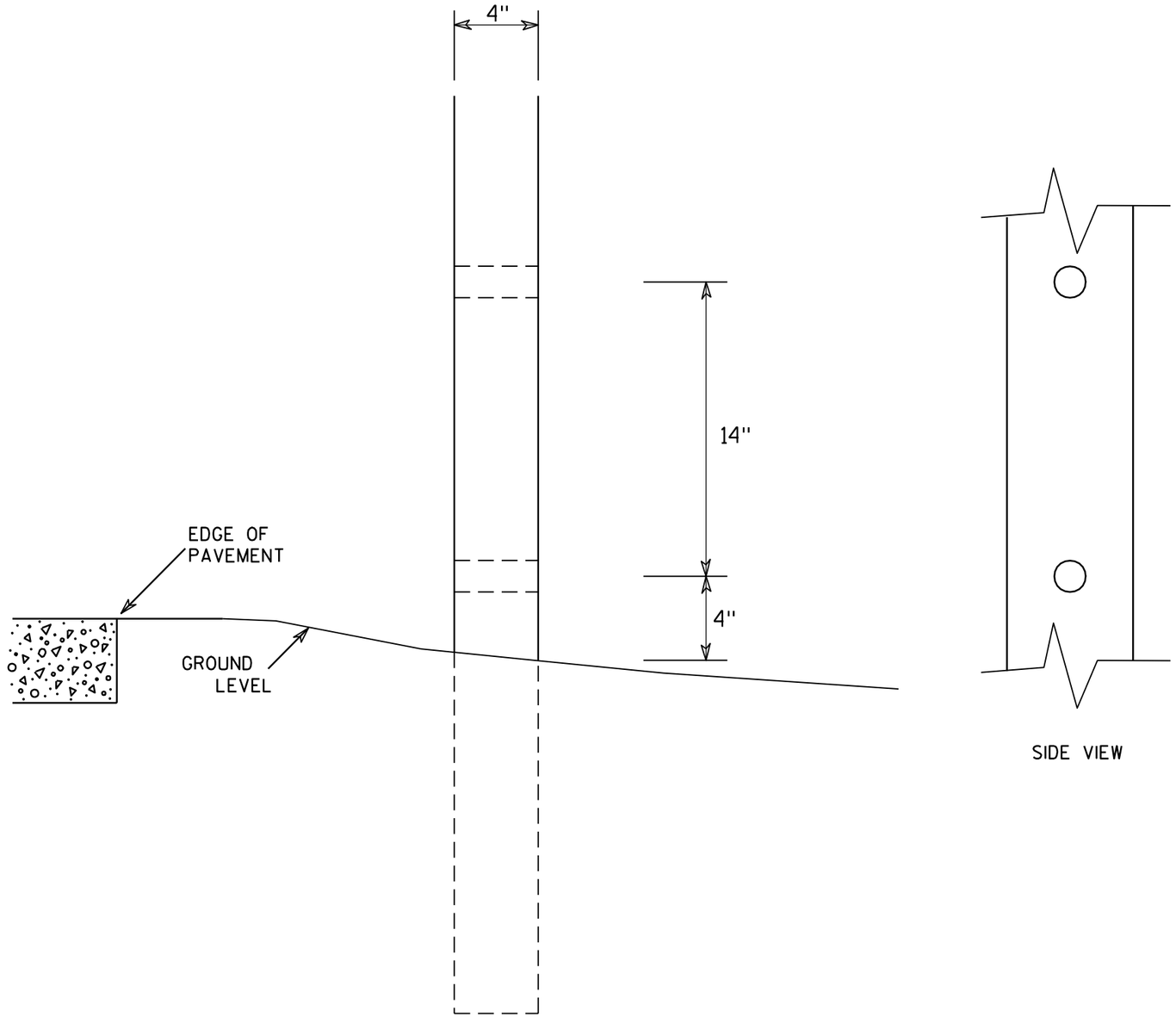
WISCONSIN DEPT OF TRANSPORTATION

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

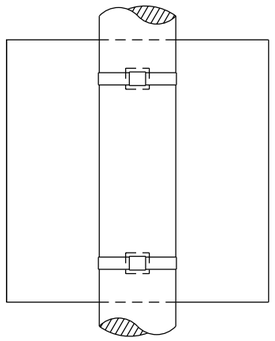
APPROVED Chester J Spang for State Traffic Engineer

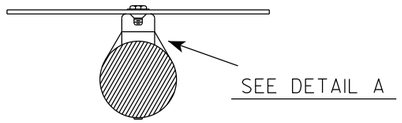
DATE 3/27/97 PLATE NO. A4-11.2

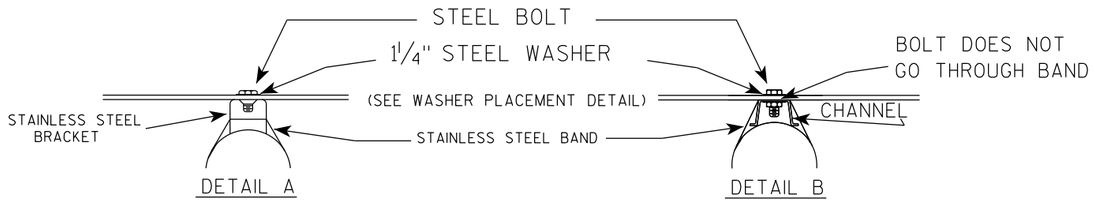
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 34	E

BANDING

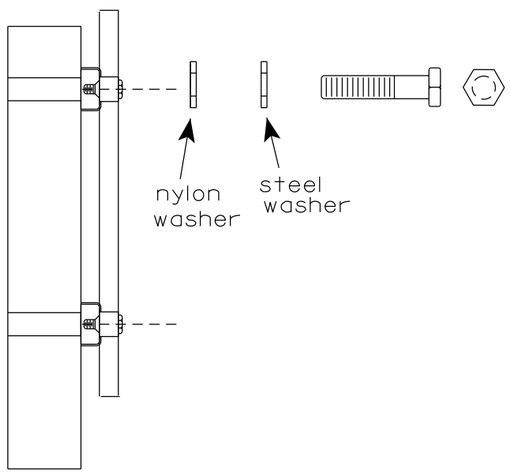
SINGLE SIGN







WASHER PLACEMENT

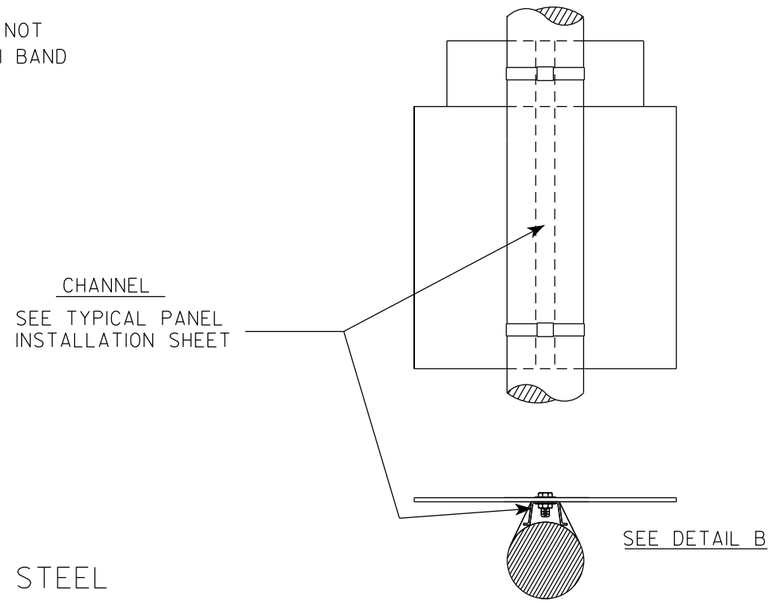


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

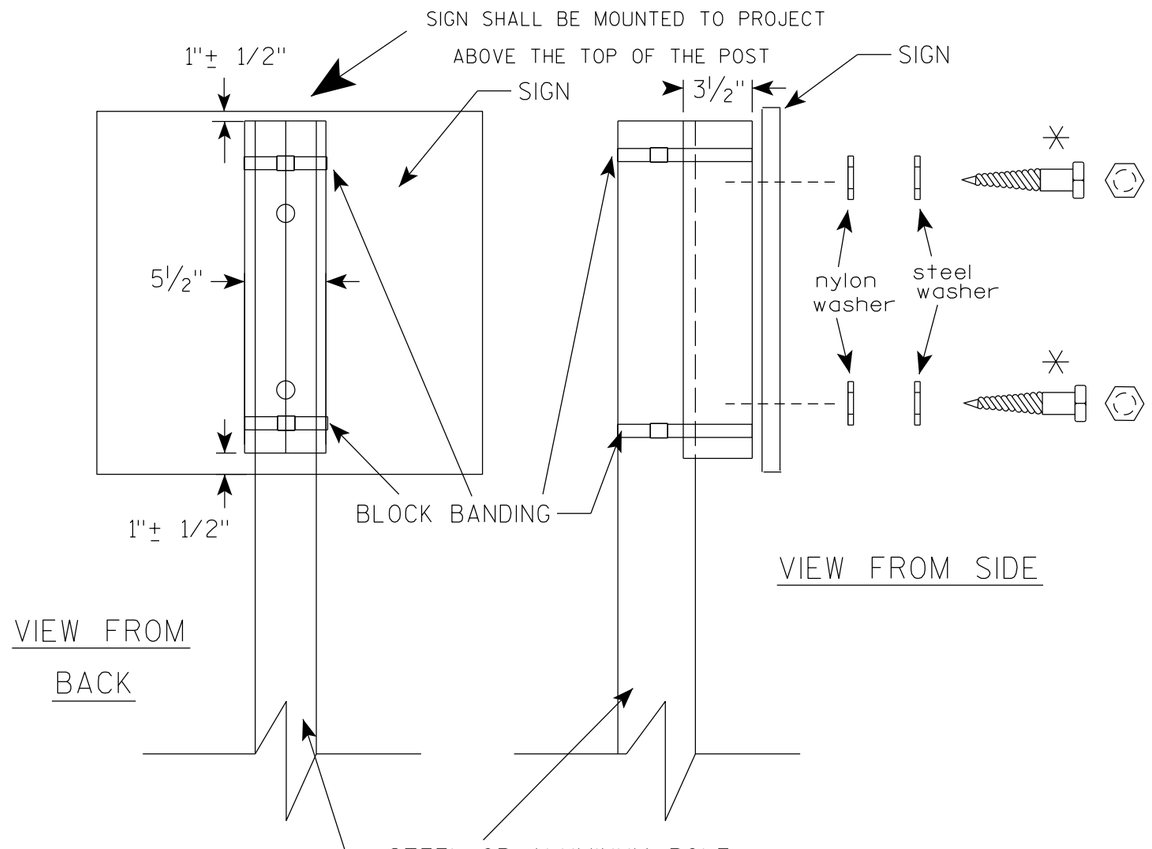
DATE 6/10/19 PLATE NO. A5-9.4

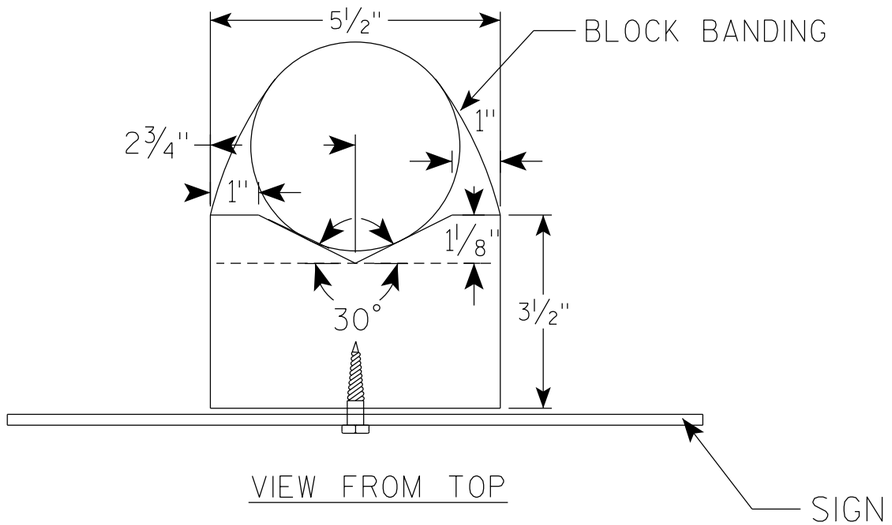
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 35	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

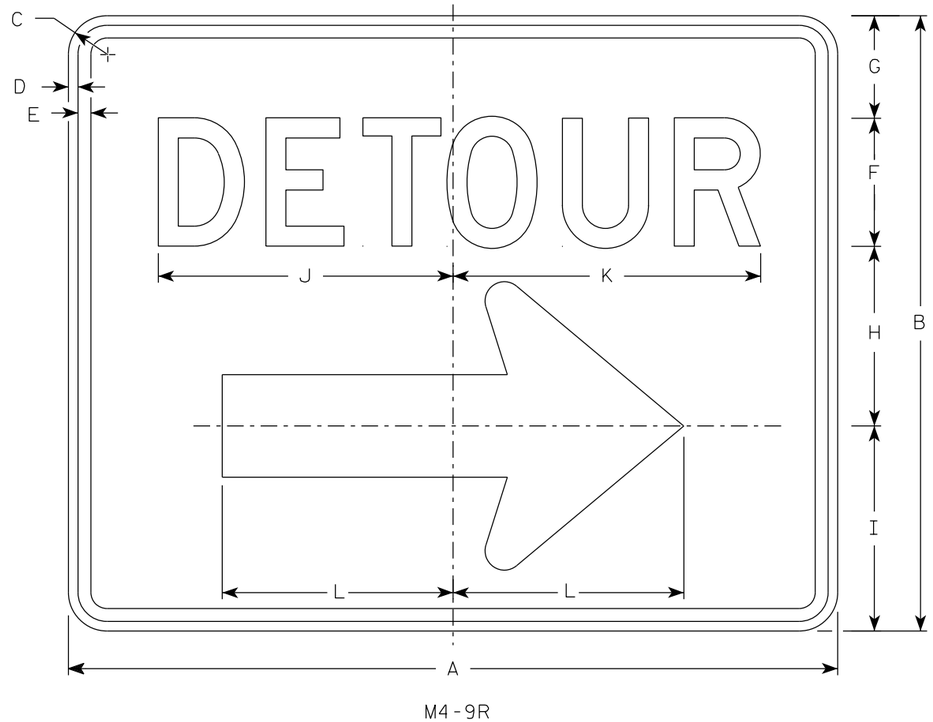
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

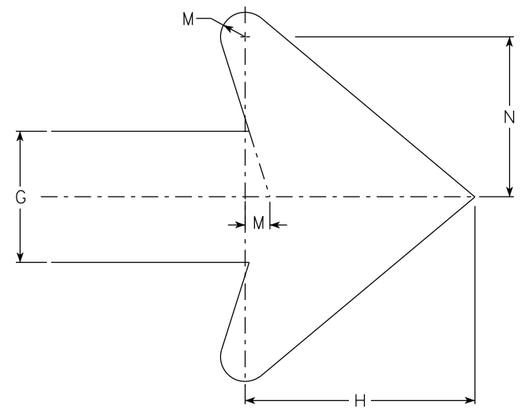
SHEET NO: 36 E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

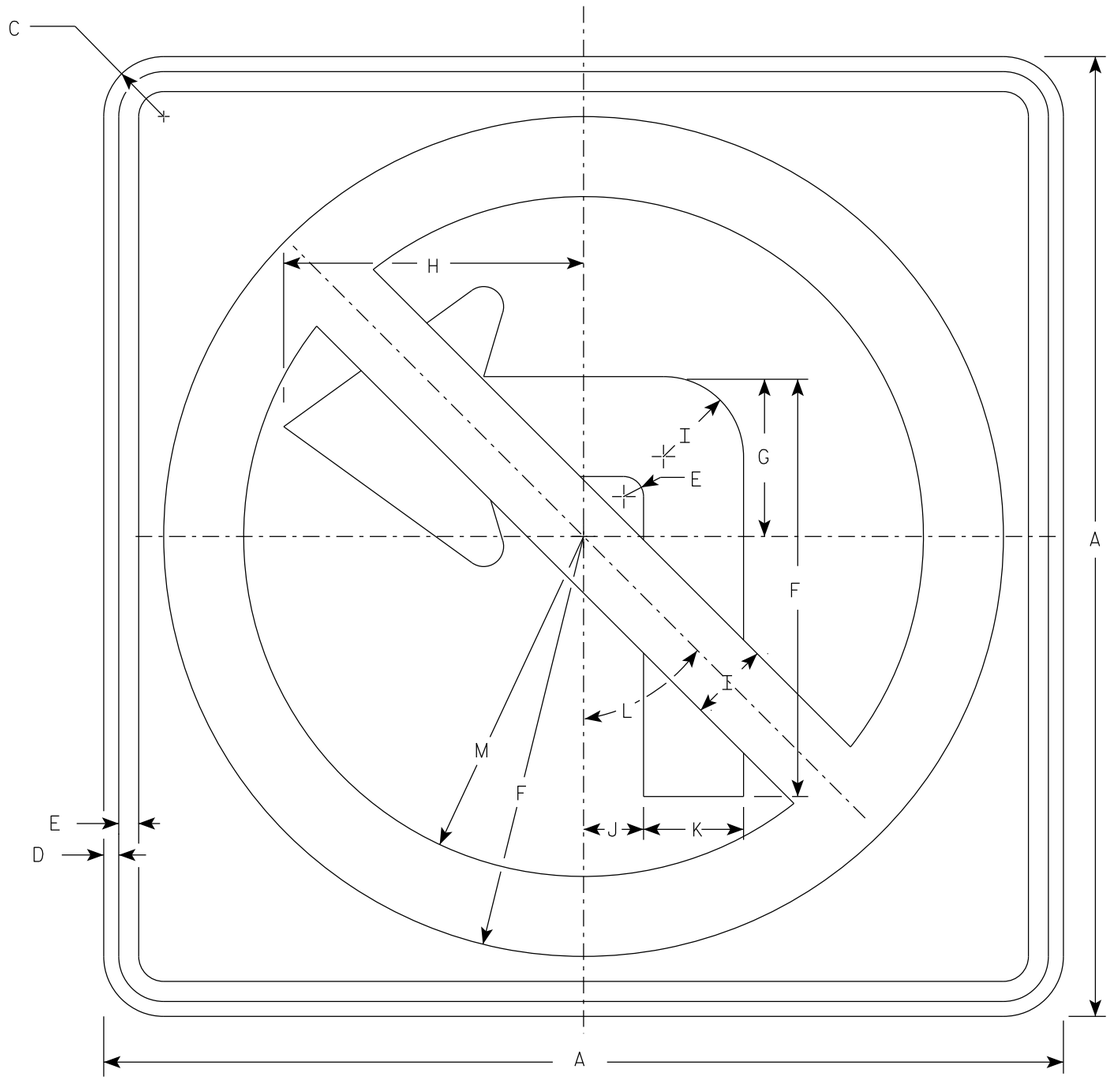
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9R.6

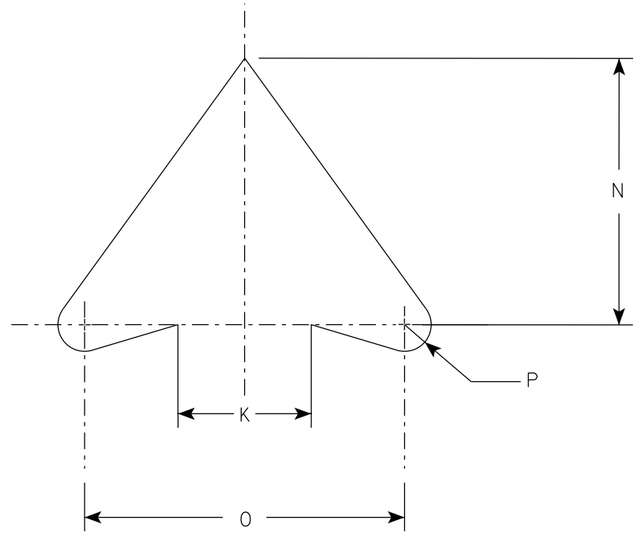
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 3
3. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



R3-2



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

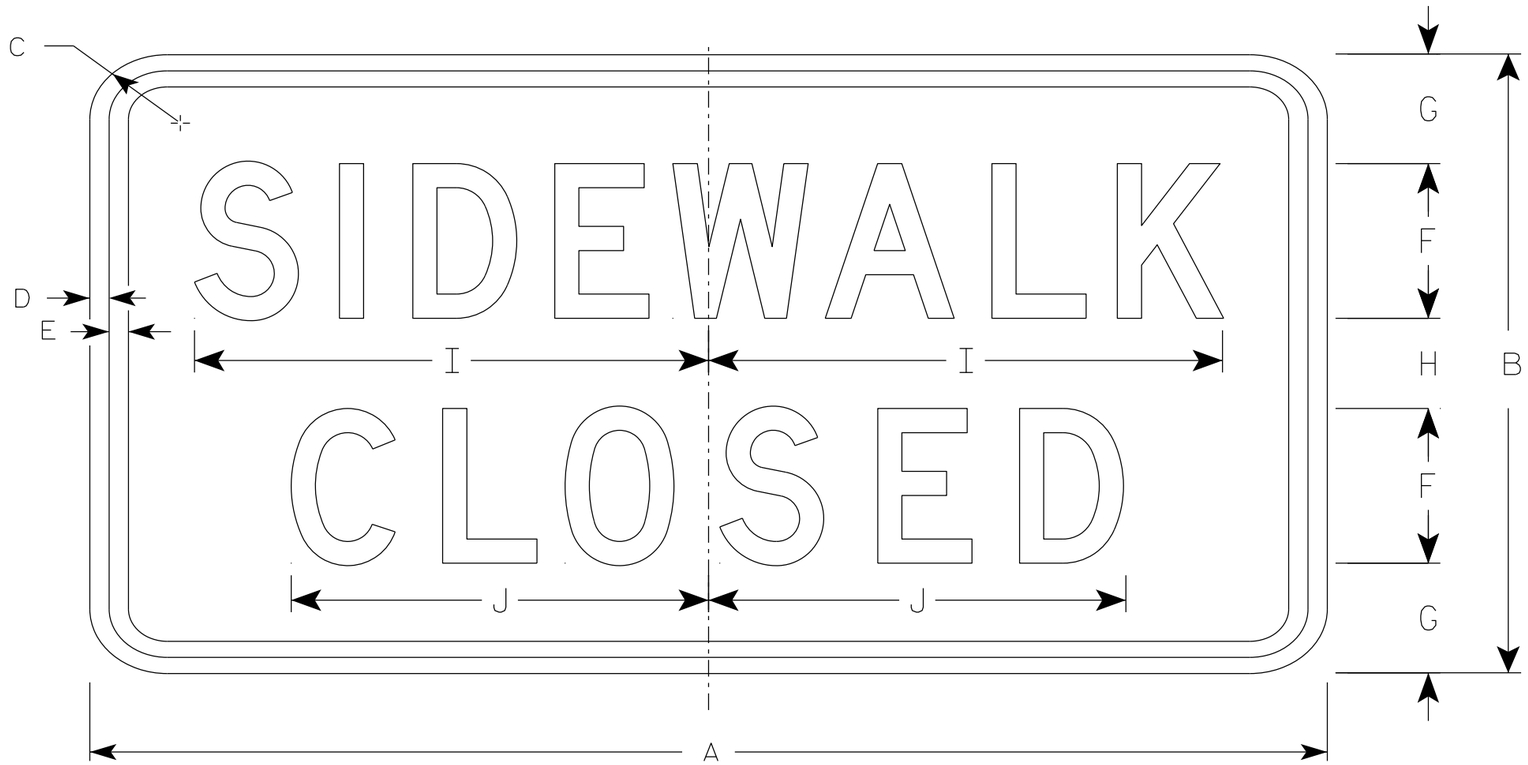
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 38 | E



R9-9

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 ½	½	½	3	2 ⅛	1 ¾	10	8 ⅛																	2.0
2M	24	12	1 ½	½	½	3	2 ⅛	1 ¾	10	8 ⅛																	2.0
3	30	18	1 ½	½	½	4	3 ½	3	12 ½	10 ¼																	3.75
4																											
5																											

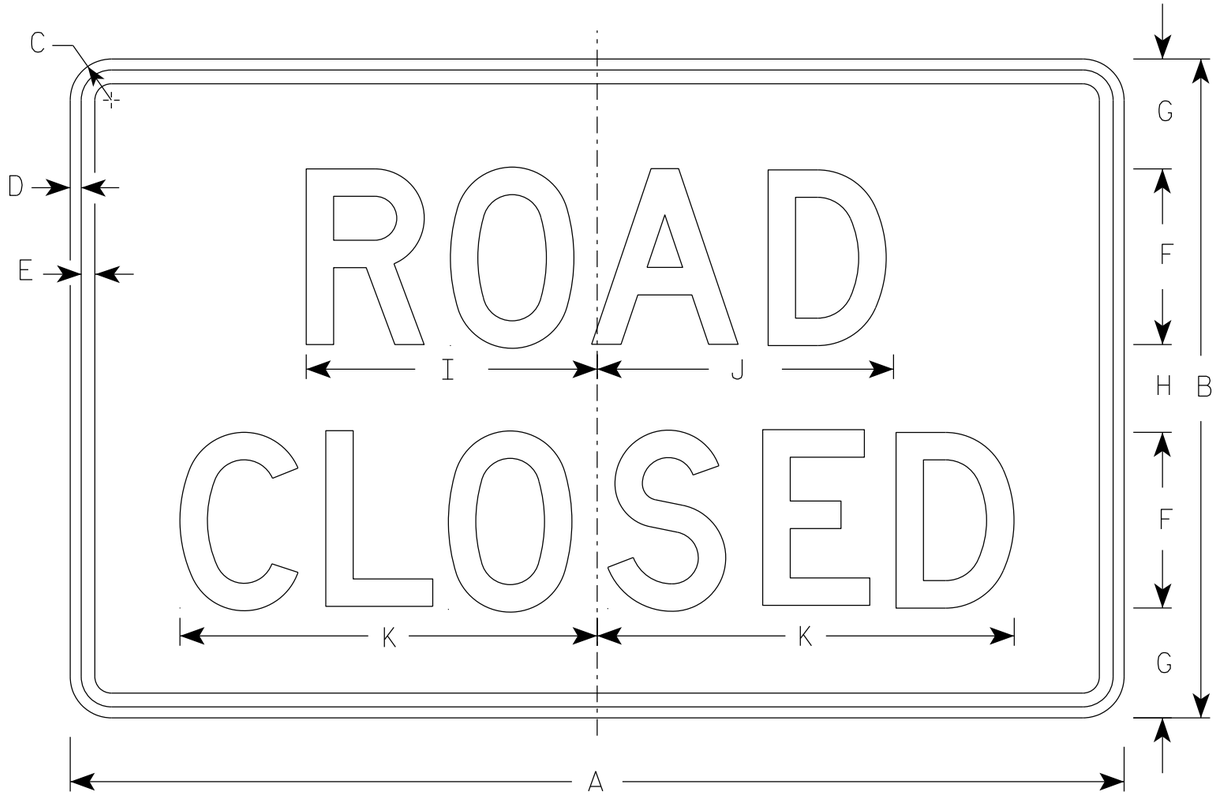
STANDARD SIGN
R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/24 PLATE NO. R9-9.7

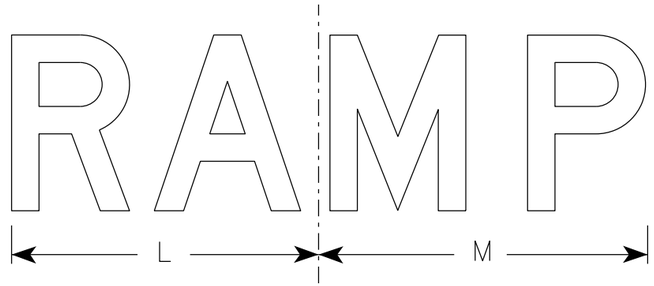
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 39 | E



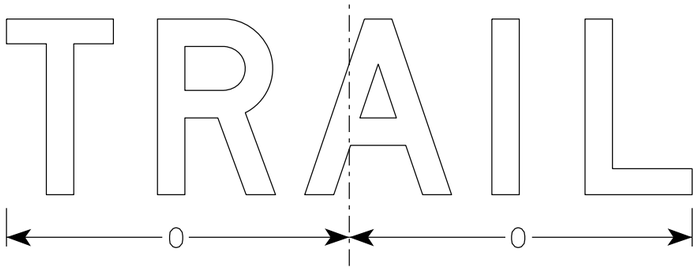
R11-2

NOTES

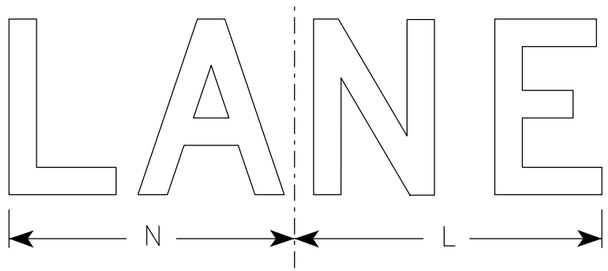
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

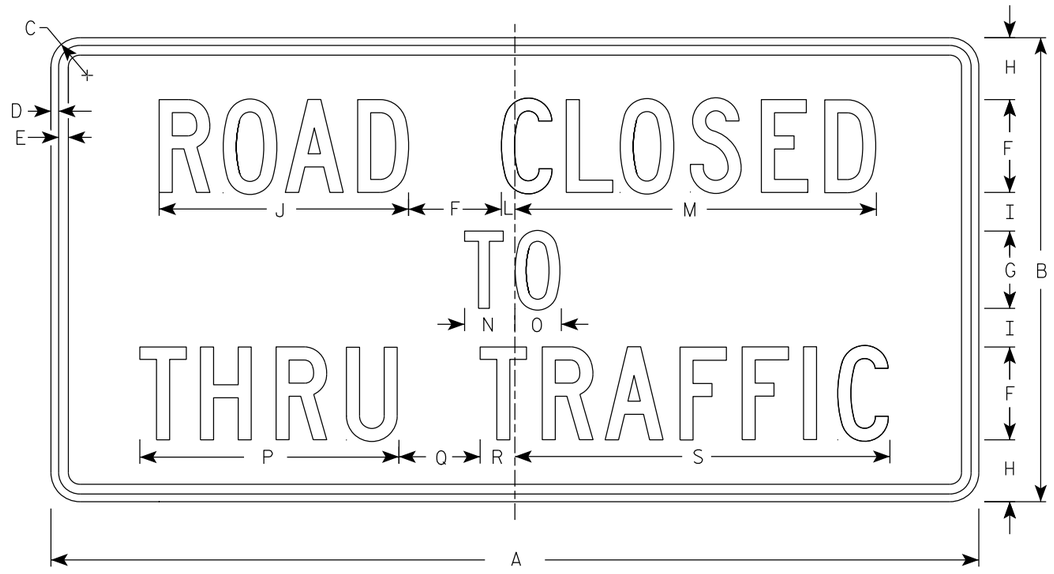
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn PLOT DATE : 5-FEB 2024 2:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7



R11-4

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

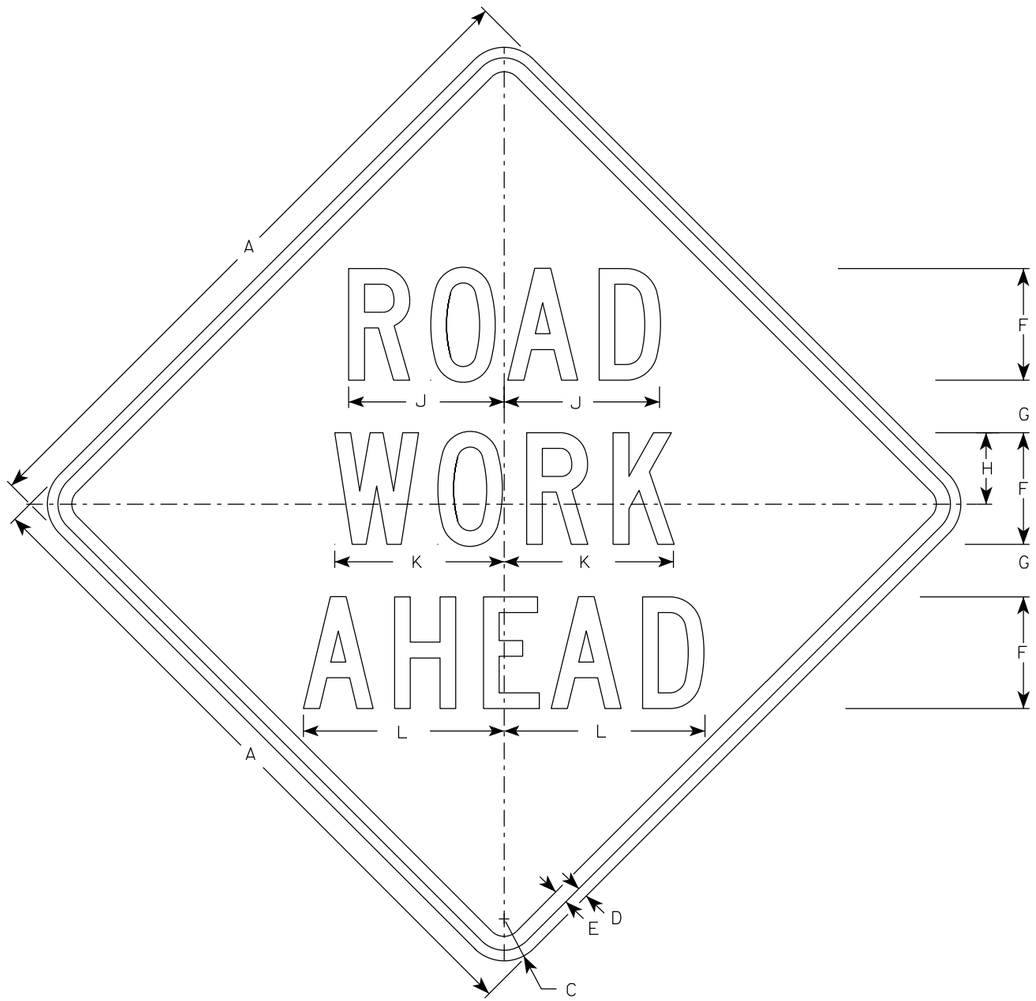
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

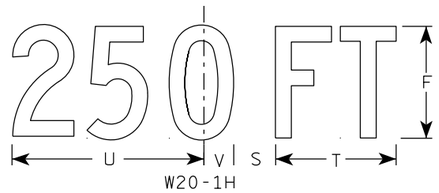
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 41 | E

NOTES

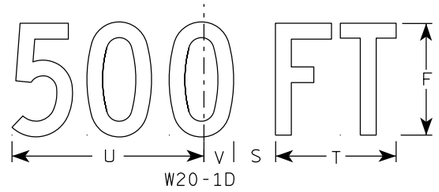
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A

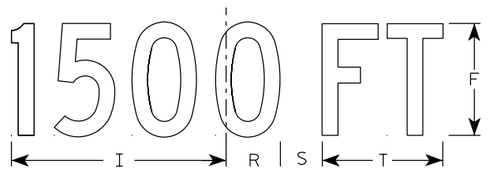


W20-1H

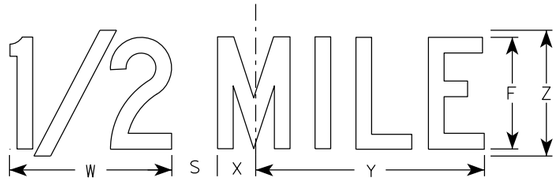


W20-1D

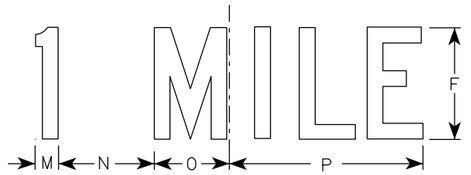
W20-1C



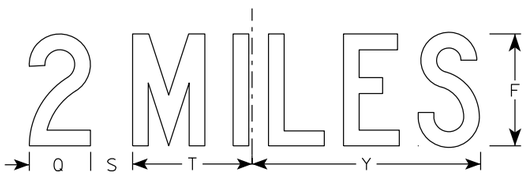
W20-1B



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		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

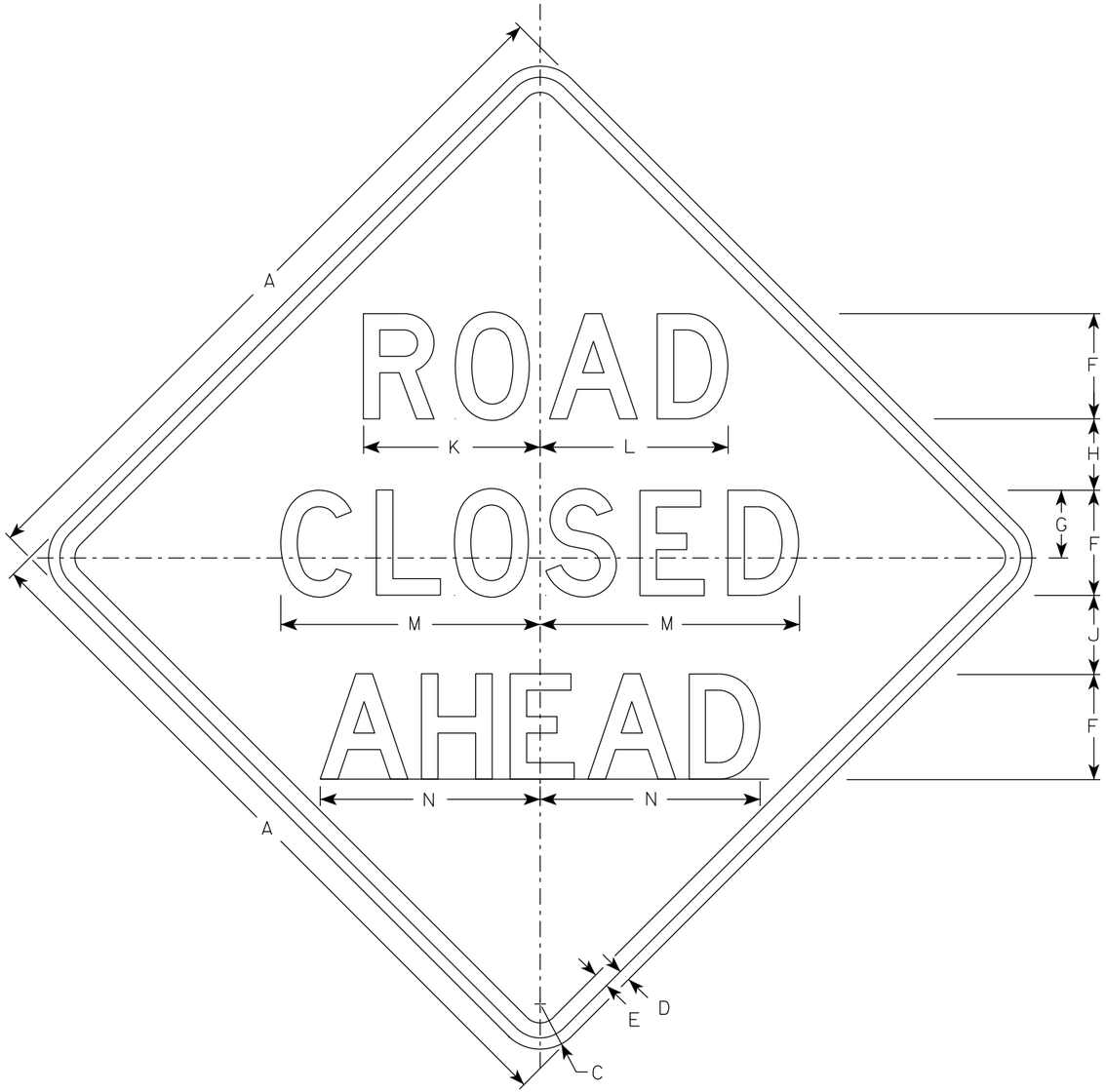
SHEET NO: 42 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 10-JAN 2024 11:16 PLOT BY : dotc4c

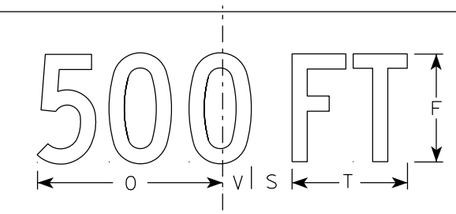
WISDOT/CADDS SHEET 42

7

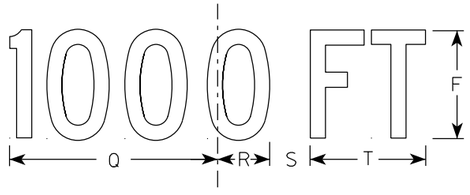
7



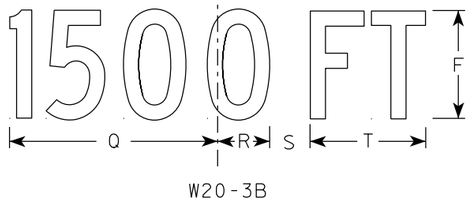
W20-3A



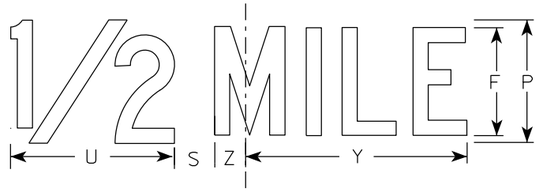
W20-3D



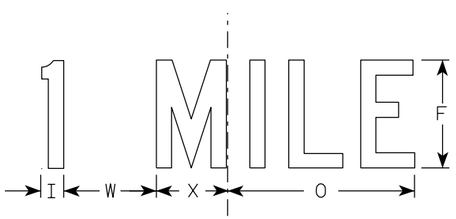
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 43 | E

7

STRUCTURE P-40-875
N. HOLTON ST. VIADUCT
OVER MILWAUKEE RIVER

STATE PROJECT NUMBER

2984-12-75

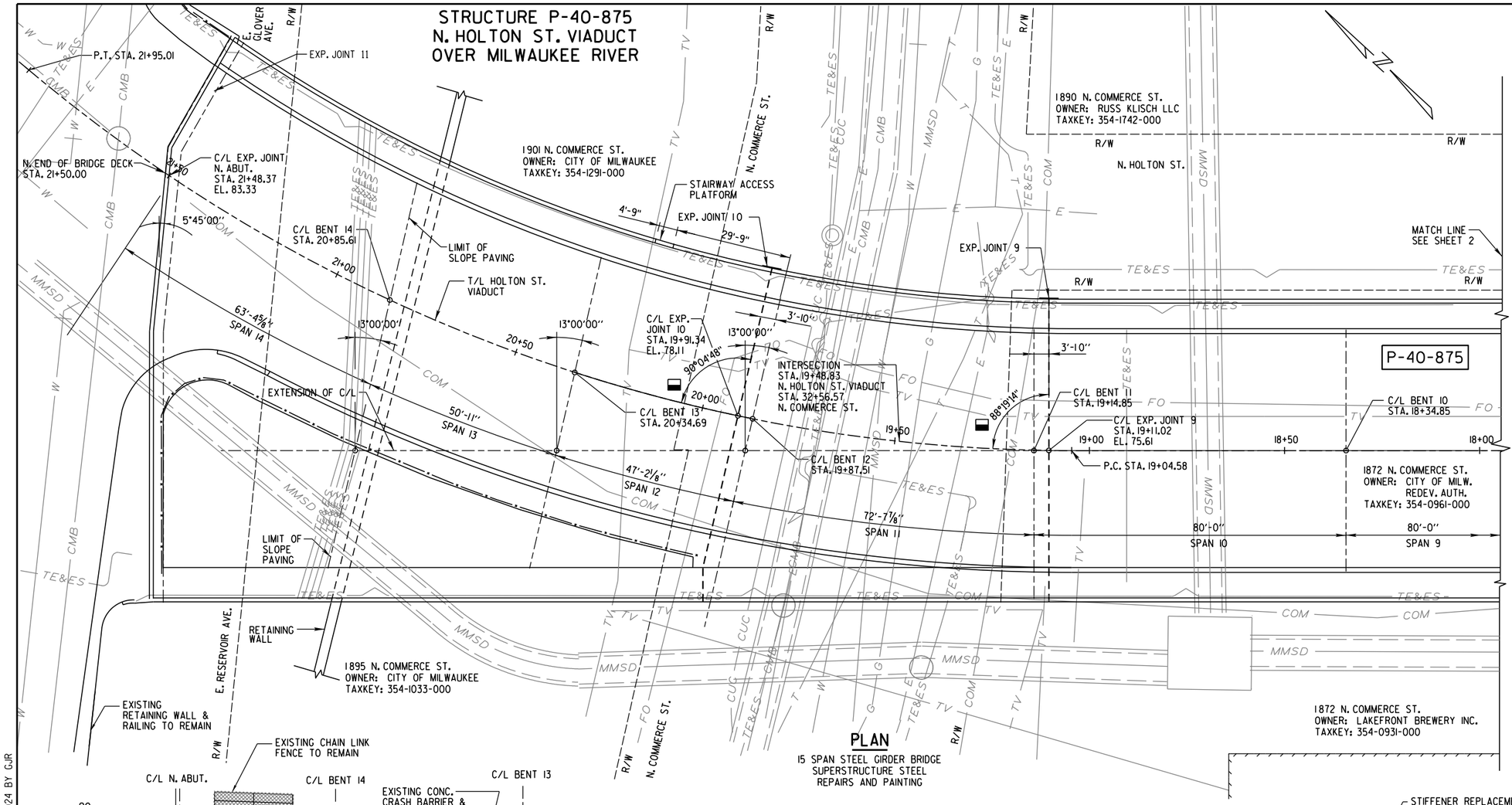
NOTES

LIST OF DRAWINGS CAN BE FOUND ON SHEET 4 "CROSS SECTIONS (1 OF 2)"

EXISTING UTILITIES TO REMAIN.

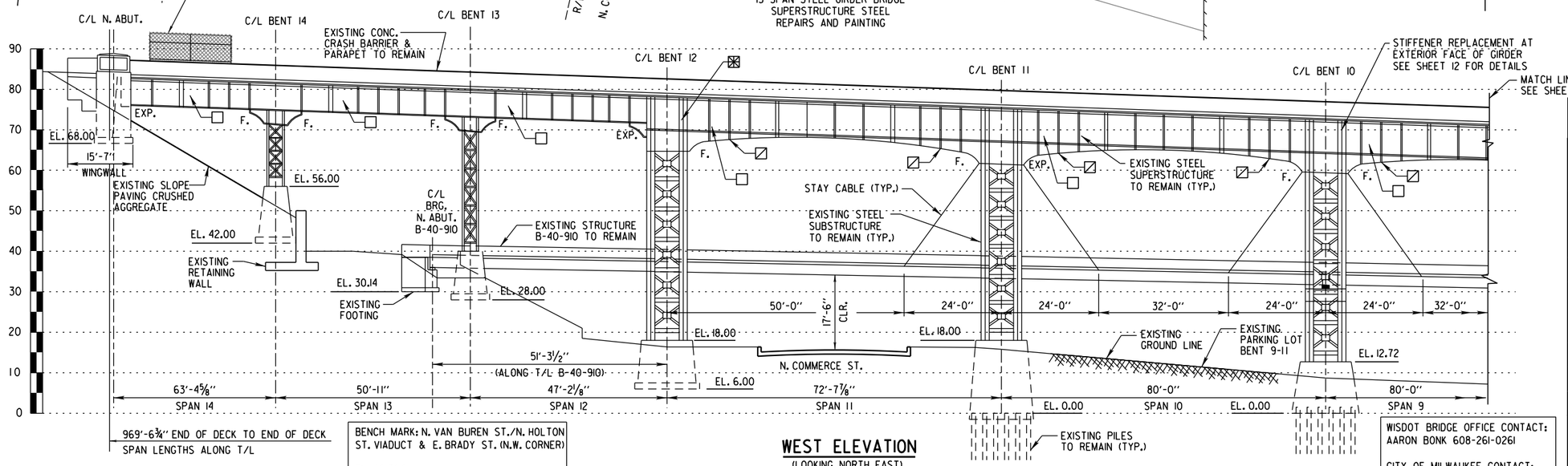
LEGEND

- ANGLES MEASURED FROM TARGET TO T/L AT LOCATION OF INTERSECTION, TYP.
- STRUCTURAL STEEL REPAIRS AND PAINTING TO SUPERSTRUCTURE STEEL
- STIFFENER REPAIRS SEE SHEET 12 FOR REPAIRS TABLE AND DETAILS
- NEW SPLICE PLATES AT BOTH EAST AND WEST EXTERIOR GIRDERS SEE SHEET 13



PLAN

15 SPAN STEEL GIRDER BRIDGE
SUPERSTRUCTURE STEEL
REPAIRS AND PAINTING



BENCH MARK: N. VAN BUREN ST./N. HOLTON ST. VIADUCT & E. BRADY ST. (N.W. CORNER)

EL. 46.564

WEST ELEVATION

(LOOKING NORTH EAST)

WISDOT BRIDGE OFFICE CONTACT:
AARON BONK 608-261-0261

CITY OF MILWAUKEE CONTACT:
JONATHAN THOMAS 414-286-0463

WISCONSIN
JONATHAN D. THOMAS
E-42372
MILWAUKEE, WI
PROFESSIONAL ENGINEER
12/18/2024

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
CITY OF MILWAUKEE
DEPARTMENT OF PUBLIC WORKS
INFRASTRUCTURE SERVICES DIVISION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 12/19/24
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE P-40-875

N. HOLTON ST. OVER MILWAUKEE RIVER

COUNTY	TOWN/~~CITY~~/~~VILLAGE~~
MILWAUKEE	MILWAUKEE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
HMD	JDT	GJR	HMD/JDT

SITE PLAN AND ELEVATION (1 OF 3)

SHEET 1 OF 31
44

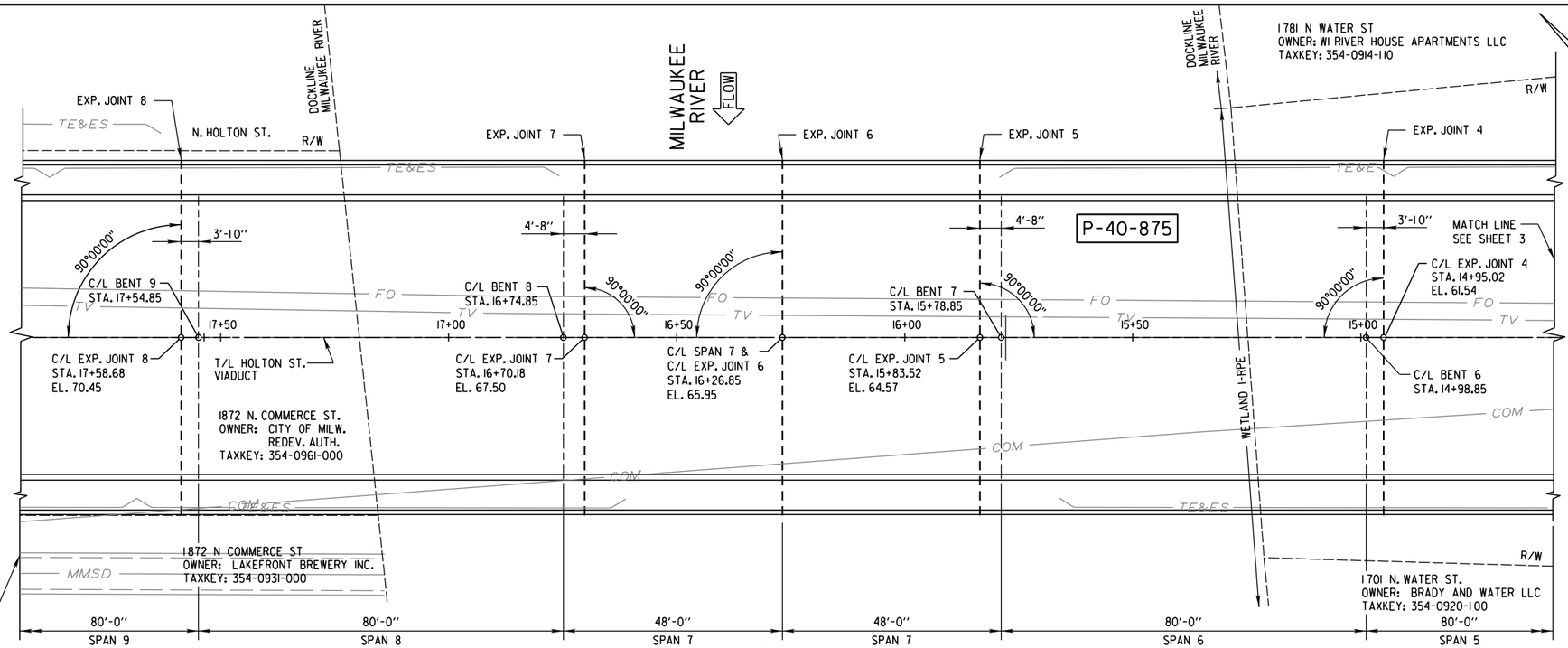
REVISED: 12-09-2024 BY GJR

8

8

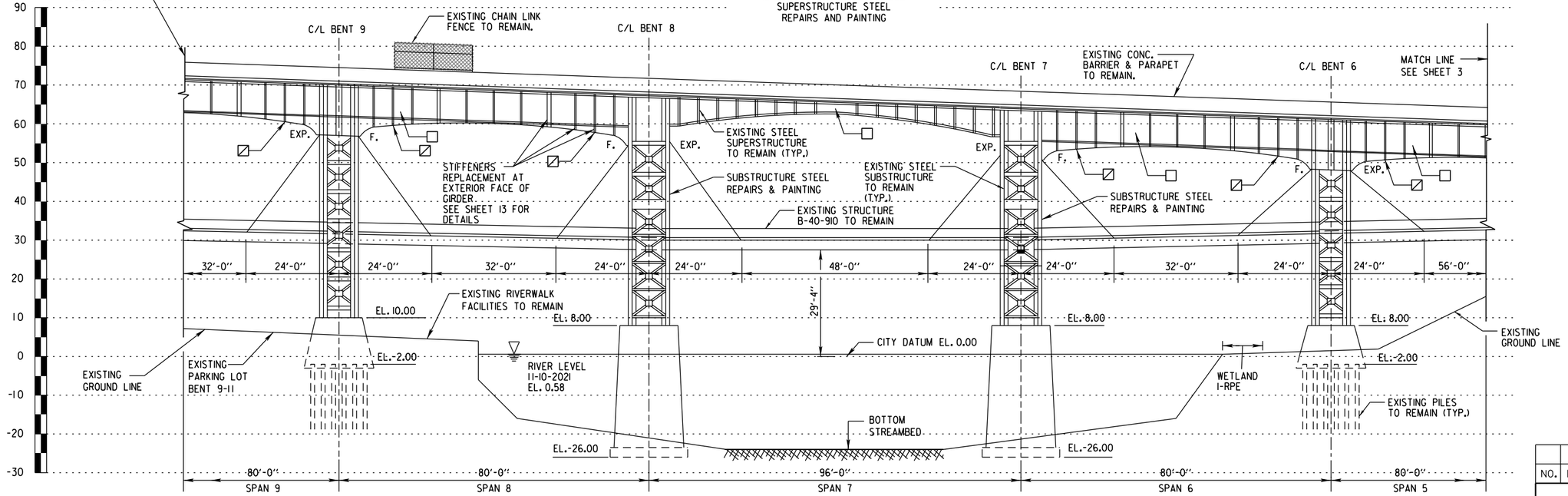
STATE PROJECT NUMBER

2984-12-75



PLAN

15 SPAN STEEL GIRDER BRIDGE
SUPERSTRUCTURE STEEL
REPAIRS AND PAINTING



WEST ELEVATION

(LOOKING NORTH EAST)

LEGEND

- ☐ STRUCTURAL STEEL REPAIRS AND PAINTING TO SUPERSTRUCTURE STEEL
- ☒ NEW FLANGE SPLICE PLATES AT BOTH EAST AND WEST EXTERIOR GIRDERS SEE SHEET 13

REVISED: 12-09-2024 BY GJR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

DRAWN BY GJR | PLANS CK'D. HMD

SITE PLAN AND ELEVATION (2 OF 3)

SHEET 2 OF 31
45

8

FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_02_SITE & ELEVATION.dgn PLOT DATE : 12/18/2024 9:53:03 AM PLOT BY : grogal PLOT NAME : B0113_2025_02_SITE & ELEVATION.dgn

STATE PROJECT NUMBER

2984-12-75

1781 N WATER ST
OWNER: WI RIVER HOUSE APARTMENTS LLC
TAXKEY: 354-0914-110

1701 N. WATER ST.
OWNER: BRADY AND WATER LLC
TAXKEY: 354-0920-100

703 E. PEARSON ST.
OWNER: BRADYPUMPHOUSE LLC
TAXKEY: 354-0750-100

1711 N. VAN BUREN ST.
OWNER: CITY OF MILWAUKEE
TAXKEY: 354-0815-000

77'-7" OUT TO OUT
60'-0" ROWY.
T/L 30'-0"
8'-9½" | 1'-0" PARAPET | 6'-6½" SDWK. | 1'-3" CRASH BARRIER | 7'-0" BIKE | 11'-0" LANE | 10'-0" PAINTED MEDIAN | 11'-0" LANE | 7'-0" BIKE | 1'-3" CRASH BARRIER | 6'-6½" SDWK. | 1'-0" PARAPET | 8'-9½"

P-40-875

EXP. JOINT 3
EXP. JOINT 2
EXP. JOINT 1
C/L BENT 5 STA. 14+18.85
C/L EXP. JOINT 3 STA. 13+62.45 EL. 56.83
C/L EXP. JOINT 2 STA. 13+09.14 EL. 54.92
C/L BENT 4 STA. 13+61.85
P.T. STA. 13+59.04
C/L BENT 3 STA. 13+09.74
C/L BENT 2 STA. 12+57.59
C/L BENT 1 STA. 12+11.23
INTERSECTION STA. 12+36.91 N. HOLTON ST. VIADUCT STA. 43+26.26 N. WATER ST.
0'-7¼"
90°00'00"
83°36'26"
84°32'14"
84°33'00"
61°21'38"
1'-0"
14+50
14+00
13+50
13+00
12+50
12+00
11+50
11+00
10+50
T/L HOLTON STREET VIADUCT
MATCH LINE SEE SHEET 2
POINT OF MIN. VERT. CLEARANCE
S. END OF BRIDGE DECK STA. 11+80.44
C/L EXP. JOINT S. ABUT. STA. 11+81.44 EL. 50.80
P.C. STA. 10+43.91
OVERHEAD
N. WATER ST.
R/W
TV
FO
COM
MMSD
TE&ES
CMB

80'-0" SPAN 5
57'-0" SPAN 4
52'-1¼" SPAN 3
52'-1¾" SPAN 2
46'-4¼" SPAN 1
29'-9½" SPAN X

PLAN

15 SPAN STEEL GIRDER BRIDGE
SUPERSTRUCTURE STEEL
REPAIRS AND PAINTING

EXISTING CHAIN LINK FENCE TO REMAIN.
MATCH LINE SEE SHEET 2
C/L BENT 5
C/L BENT 4
C/L BENT 3
C/L BENT 2
C/L BENT 1
C/L S. ABUT.
EXISTING CONC. CRASH BARRIER & PARAPET TO REMAIN.
REMOVE AND REINSTALL CLEARANCE SIGNAGE AT BOTH EAST AND WEST EXTERIOR GIRDERS.
POINT OF MIN. VERT. CLEARANCE
EXISTING STEEL SUPERSTRUCTURE TO REMAIN (TYP.)
EXISTING STEEL SUBSTRUCTURE TO REMAIN (TYP.)
EXISTING STRUCTURE B-40-910 TO REMAIN
C/L BRG. S. ABUT. B-40-910
EXISTING FOOTING
EXISTING GROUND LINE
EXISTING PILES TO REMAIN (TYP.)
12'-3" MIN. AT FACE OF RETAINING WALL
N. WATER ST.
SANDBLAST & PAINT EXISTING EAST AND WEST STEEL RAILING ALONG ENTIRE LENGTH OF RETAINING WALLS AND STAIRS
32'-0" WING WALL
EL. 25.00
EL. 24.50
EL. 2.00
EL. 28.00
EL. 39.00
EL. 32.00
EL. 29.00
EL. 37.50
EL. 33.50
56'-0"
20'-7¼" (ALONG T/L B-40-910)
80'-0" SPAN 5
57'-0" SPAN 4
52'-1¼" SPAN 3
52'-1¾" SPAN 2
46'-4¼" SPAN 1
29'-9½" SPAN X
1'-0" EXP. JOINT
969'-6¾" END OF DECK TO END OF DECK ALONG T/L

WEST ELEVATION

(LOOKING NORTH EAST)

LEGEND

- ANGLES MEASURED FROM TARGET TO T/L AT LOCATION OF INTERSECTION, TYP.
- STRUCTURAL STEEL REPAIRS AND PAINTING TO SUPERSTRUCTURE STEEL
- STIFFENER REPAIRS SEE SHEET 12 FOR REPAIRS TABLE AND DETAILS
- NEW SPLICE PLATE AT BOTH EAST AND WEST EXTERIOR GIRDERS SEE SHEET 13

REVISED: 08-23-2024 BY HMD

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

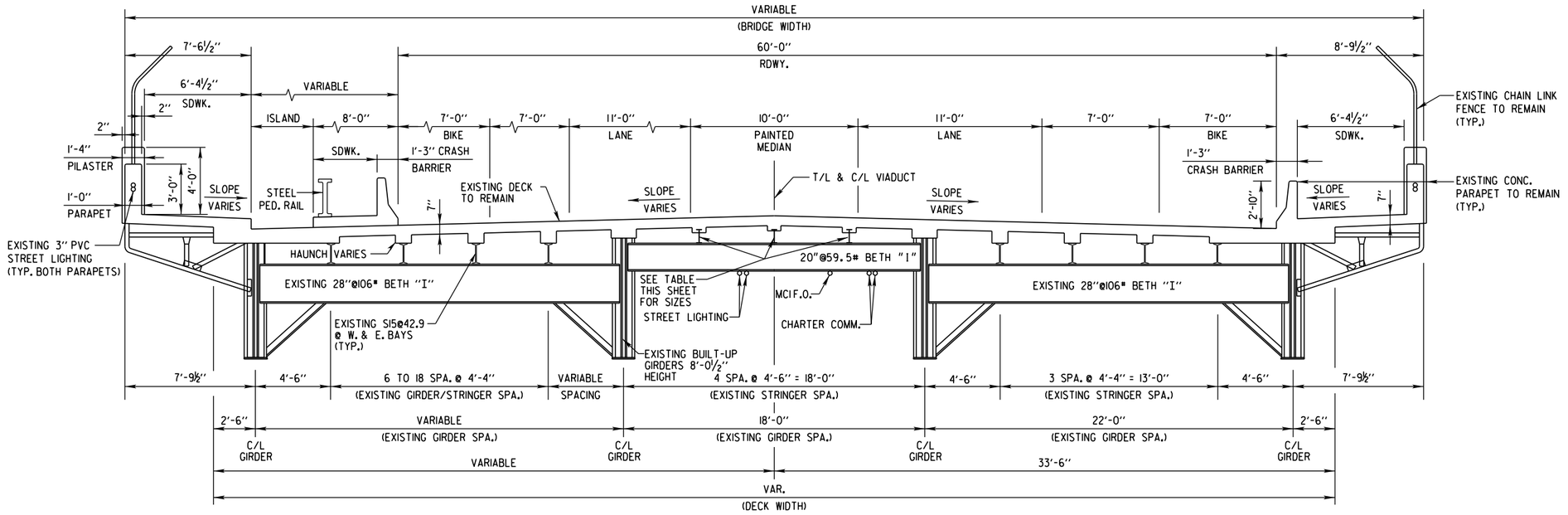
DRAWN BY GJR | PLANS CK'D. HMD

SITE PLAN AND ELEVATION (3 OF 3)

SHEET 3 OF 31
46

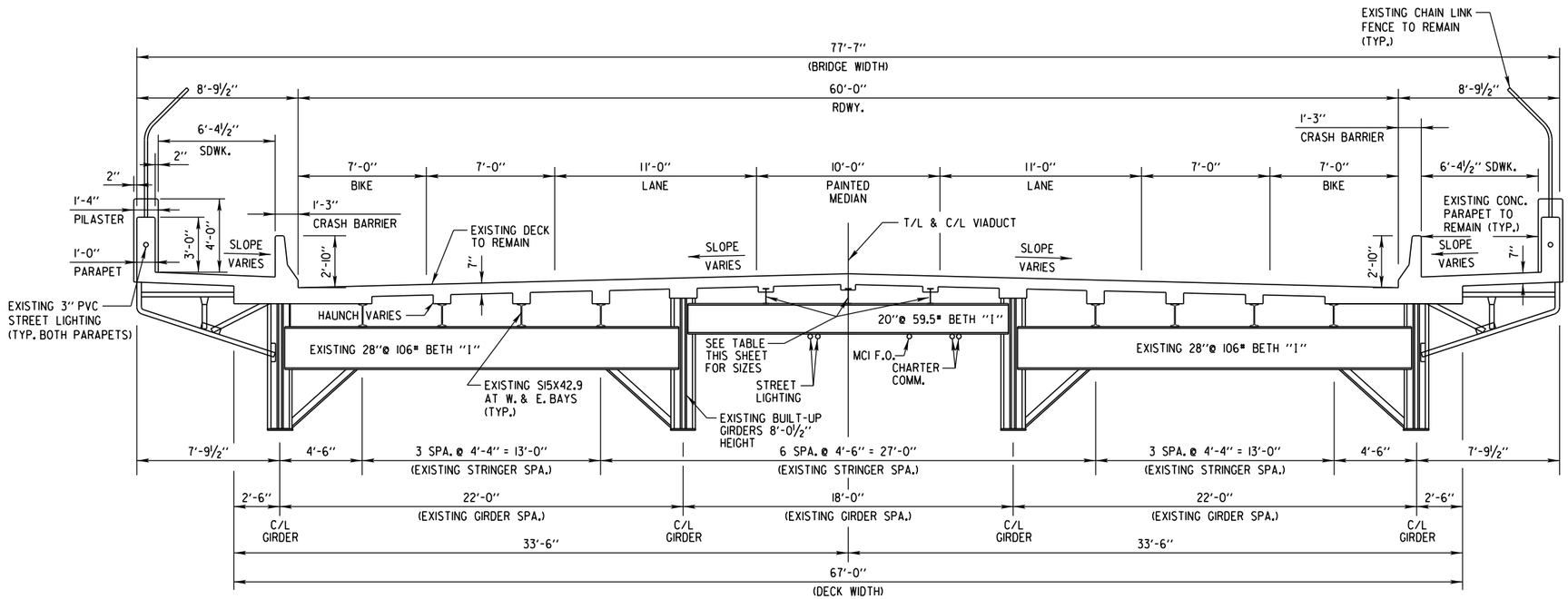
FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_03_SITE & ELEVATION.dgn
PLOT DATE : 12/18/2024 9:53:26 AM PLOT BY : grogal PLOT NAME : B0113_2025_03_SITE & ELEVATION.dgn

STATE PROJECT NUMBER
2984-12-75



TYPICAL CROSS SECTION

(FIXED SPANS 11-14)
(LOOKING NORTH)



TYPICAL CROSS SECTION

(FIXED SPANS 2-6, 8-10)
(LOOKING NORTH)

LIST OF DRAWINGS

CENTER BAY STRINGERS

JOINT NUMBER AND LOCATION	SOUTH OF BENT CENTER LINE			NORTH OF BENT CENTER LINE		
	WEST STRINGER	MID STRINGER	EAST STRINGER	WEST STRINGER	MID STRINGER	EAST STRINGER
JOINT 2 AT PIER 3	W6X15	W6X15	W6X15	W6X15	W6X15	W6X15
JOINT 3 AT PIER 4	W6X15	W6X15	W6X15	W8X13	W10X12	W8X13
JOINT 4 AT PIER 6	W10X12	W12X14	W10X12	W10X12	W12X14	W10X12
JOINT 8 AT PIER 9	W10X12	W12X14	W10X12	W10X12	W12X14	W10X12
JOINT 9 AT PIER 11	W8X13	W10X12	W8X13	W8X13	W10X12	W8X13
JOINT 10 AT PIER 12	W8X13	W10X12	W8X13	W6X15	W6X15	W6X15
WEST AND EAST BAYS: 15X42.9 I (TYPICAL)						

WEST, CENTER AND EAST BAY STRINGERS

JOINT NUMBER AND LOCATION	SOUTH OF BENT CENTER LINE			NORTH OF BENT CENTER LINE		
	WEST BAY STRINGERS	MID BAY STRINGERS	EAST BAY STRINGERS	WEST BAY STRINGERS	MID BAY STRINGERS	EAST BAY STRINGERS
JOINT 5 AT PIER 7	W18X54.7	W10X12 W12X14	W18X54.7	W12X35	W14X30 W18X35	W12X35
JOINT 6 AT C/L SPAN 7	W12X35	W14X30 W18X35	W12X35	W12X35	W14X30 W18X35	W12X35
JOINT 7 AT PIER 8	W12X35	W14X30 W18X35	W12X35	W18X54.7	W10X12 W12X14	W18X54.7

NOTES

SANDBLAST AND PAINT ALL SUPERSTRUCTURE STEEL.

EXISTING UTILITIES TO REMAIN AND BE PROTECTED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

DRAWN BY GJR | PLANS CK'D. HMD

CROSS SECTIONS (1 OF 2)

SHEET 4 OF 31
47

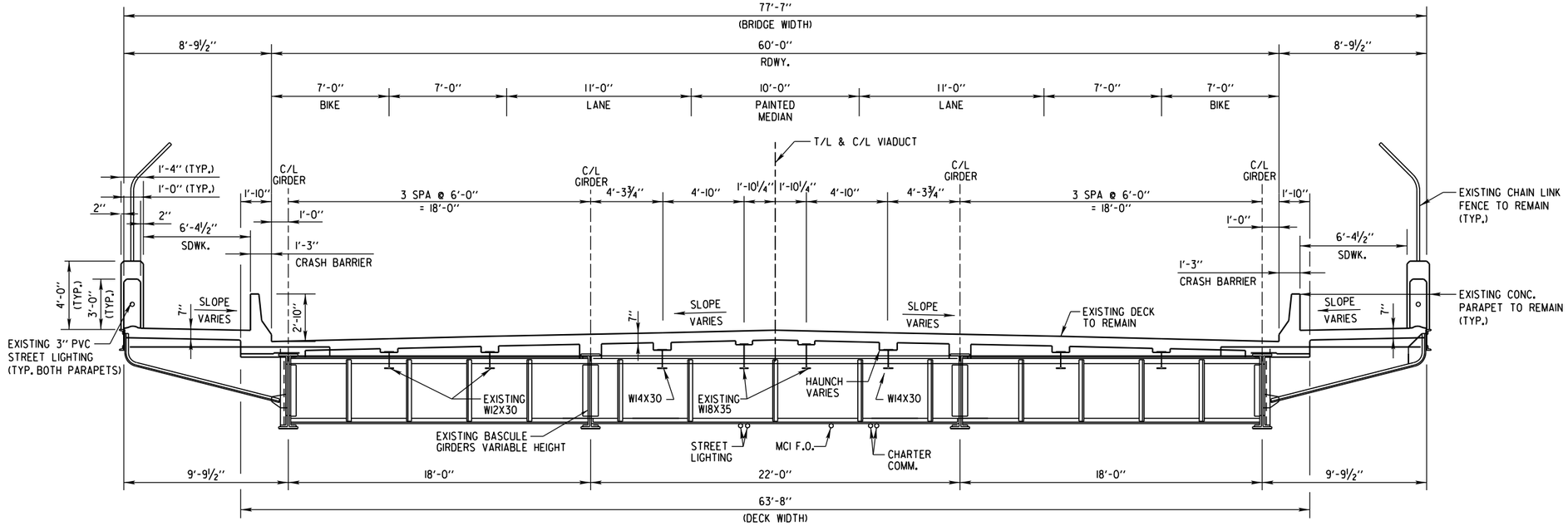
REVISED DATE: 12-09-2024 BY GJR

8

8

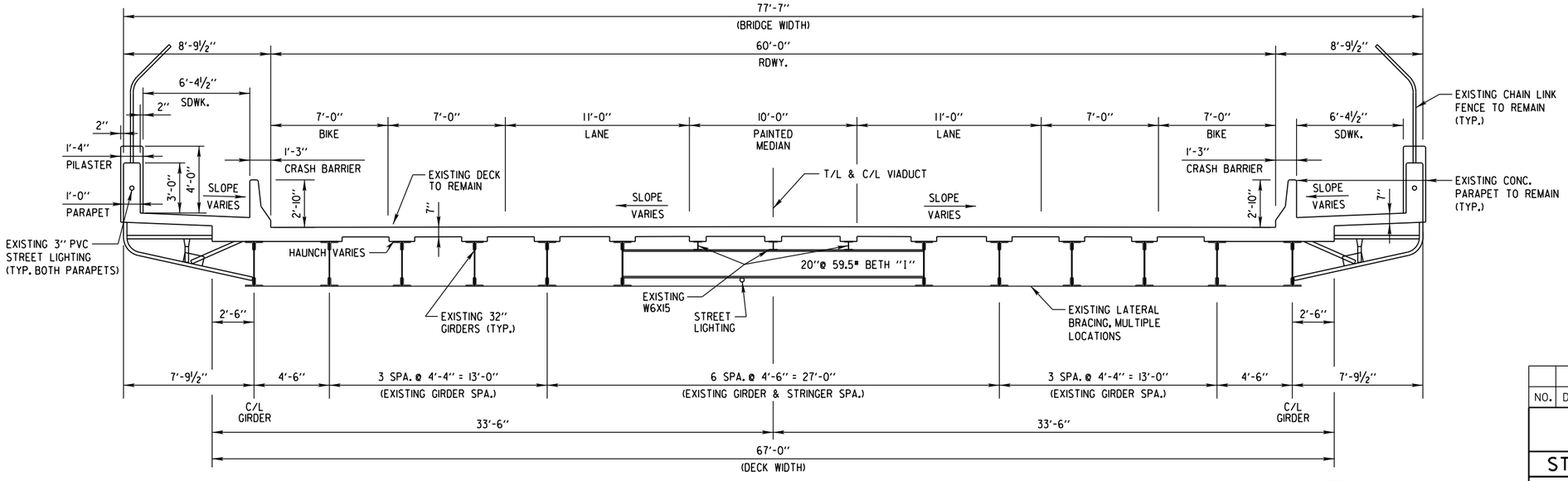
STATE PROJECT NUMBER

2984-12-75



TYPICAL CROSS SECTION

(BASCULE SPAN 7)
(LOOKING NORTH)



TYPICAL CROSS SECTION

(FIXED SPANS X AND I)
(LOOKING NORTH)

NOTES

SANDBLAST AND PAINT ALL SUPERSTRUCTURE STEEL

EXISTING UTILITIES TO REMAIN AND BE PROTECTED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

DRAWN BY GJR | PLANS CK'D. HMD

CROSS SECTIONS
(2 OF 2)

SHEET 5 OF 31
48

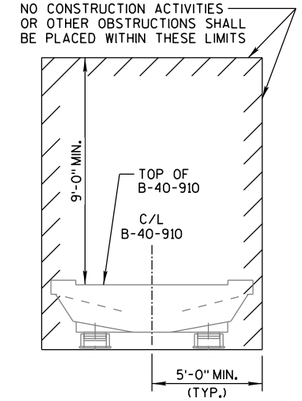
REVISED: 08-23-2024 BY HMD

8

8

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	SUPER.	SUBST.	TOTAL
203.0270	REMOVING STRUCTURE OVER WATERWAY DEBRIS CAPTURE P-40-875	EACH	1		1
506.0105	STRUCTURAL STEEL CARBON	LB	4,450	3,550	8,000
517.0601	PAINTING EPOXY SYSTEM P-40-875	EACH	1		1
517.1801.S	STRUCTURE REPAINTING RECYCLED ABRASIVE P-40-875	EACH	1		1
519.4501.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS P-40-875	EACH	1		1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1		1
SPV.0060.516	TEMPORARY SHORING FOR PIER 7 AND 8 REPAIRS	EACH		1	1
SPV.0060.597	PROTECTING UTILITIES	EACH	1		1
SPV.0090.571	CONCRETE HAUNCH REMOVAL	LF	7,900		7,900
	NON-BID ITEMS				
	POLYETHYLENE SHEETS				



MINIMUM CONSTRUCTION CLEARANCE ENVELOPE

NORMAL TO B-40-910

TEMPORARY MINIMUM CLEARANCE OF 9'-0" SHALL BE MAINTAINED ABOVE STRUCTURE B-40-910 AT ALL TIMES. LIMITED SHORT TERM CLOSURES MAY BE ALLOWED WITH APPROVAL OF ENGINEER.

GENERAL NOTES

ALL STATIONS AND ELEVATIONS ARE IN FEET.

ELEVATIONS ARE REFERRED TO CITY OF MILWAUKEE DATUM: 580.60 NGVD.

DIMENSIONS SHOWN ARE BASED ON ORIGINAL STRUCTURE PLANS.

DRAWINGS SHALL NOT BE SCALED.

ROADWAY ALIGNMENTS, STATIONING AND BASE MAPPING ARE BASED ON A FIELD SURVEY AND ARE TO BE USED FOR INFORMATIONAL PURPOSES ONLY. STATIONING SHOWN DOES NOT CORRELATE WITH PRIOR PLANS.

LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILTY INSTALLATIONS WITHIN PROJECT AREA THAT ARE NOT SHOWN.

SEE ROADWAY PLANS FOR EXISTING AND PROPOSED UTILITY LOCATIONS.

EXISTING ABUTMENTS AND PIERS ARE TO REMAIN IN PLACE AS SHOWN AND INCORPORATED INTO NEW CONSTRUCTION.

EXISTING STRUCTURE P-40-875 IS A 15-SPAN STEEL GIRDER BRIDGE WITH AN OVERALL LENGTH OF 969'-6 3/4" AND TYPICAL WIDTH OF 77'-7".

WELDING NOT SHOWN ON PLANS WILL NOT BE PERMITTED, EXCEPT BY WRITTEN PERMISSION FROM THE ENGINEER AND WITH APPROVED WELD PROCEDURE BY THE CONTRACTOR.

USE GALVANIZED 7/8" DIAMETER ASTM A325 BOLTS FOR ALL CONNECTIONS, UNLESS NOTED OTHERWISE ON THE PLANS.

EXERCISE CARE WHILE REMOVING EXISTING BOLTS OR RIVETS AND INSTALLING NEW BOLTS. DO NOT DAMAGE EXISTING STEEL OR BOLT HOLES. ANY DAMAGE WILL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST.

PROVIDE MINIMUM RADIUS OF 1" AT ALL INTERIOR AND RE-ENTRANT CUTS, UNLESS NOTED OTHERWISE ON PLANS.

ALL NEW OR EXISTING HOLES IN STEEL NOT BEING USED ARE TO BE FILLED WITH HIGH STRENGTH, GALVANIZED BOLTS PRIOR TO STRUCTURAL PAINTING.

REMOVALS WILL BE MADE AS INDICATED ON DRAWINGS. ALL REMOVALS WILL BE COMPLETE AND INCLUDE ALL FOREIGN OBJECTS SUCH AS BRACKETS, HANGER, ABANDONED CONDUIT, ETC. THAT IS NOT NEEDED STRUCTURALLY, WHETHER MENTIONED OR NOT AND REMOVED AS DIRECTED BY THE ENGINEER IN THE FIELD.

STRUCTURAL STEEL REPAIRS AND MODIFICATIONS WILL BE MADE AS INDICATED PER PLANS.

PAINT FOR STEEL TO MATCH AMS STANDARD NO. 595A COLOR NO. 20318.

ALL NEW STEEL MEMBERS SHALL BE PAINTED UNDER BID ITEM 517.0601 "PAINTING EPOXY SYSTEM P-40-875".

ALL EXISTING STEEL SHALL BE SANDBLASTED AND PAINTED UNDER BID ITEMS 517.1801.S "STRUCTURE REPAINTING RECYCLED ABRASIVE P-40-875" AND 517.4501.S "NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS P-40-875."

PAINTING LIMITS SHALL BE FROM ELEVATION OF BOTTOM FLANGE OF MAIN STEEL GIRDERS TO UNDERSIDE OF DECK.

REMOVE EXISTING NON FUNCTIONAL ARCHITECTURAL LIGHT FIXTURES, AND CORRESPONDING CONDUITS MOUNTED AT STEEL MEMBERS BETWEEN BENTS 5 THRU 13.

CONCRETE HAUNCH REMOVALS ARE MEASURED ALONG EACH SIDE ADJACENT TO GIRDERS, AND STRINGERS. EXTERIOR GIRDERS CONCRETE HAUNCH REMOVAL IS AT INSIDE FLANGE.

BRIDGE REHABILITATION CONSTRUCTION NOTES

STATE PROJECT NUMBER

2984-12-75

EXISTING BRIDGE PLANS ARE ON FILE:
CITY OF MILWAUKEE, INFRASTRUCTURE SERVICES DIVISION
STRUCTURAL PLANNING & DESIGN UNIT
FRANK P. ZEIDLER MUNICIPAL BUILDING
841 N. BROADWAY, ROOM 907
MILWAUKEE, WI 53202
PHONE (414) 286-0463

SCOPE OF WORK

THE NORTH HOLTON STREET VIADUCT REHABILITATION PHASE III SPECIFIC REPAIRS ARE AS FOLLOWS:

STRUCTURAL STEEL REPAIRS TO SUPERSTRUCTURE INCLUDING, BUT NOT LIMITED TO, REPAIRS TO MAIN GIRDERS AND STIFFENERS.

BOLTING PLATES TO WEBS AND FLANGES OF SUPERSTRUCTURE STEEL.

SIDEWALK BRACKET REPAIRS AND/OR REPLACEMENT.

STRUCTURAL STEEL REPAIRS TO SUBSTRUCTURE INCLUDING, BUT NOT LIMITED TO: TOWER LEGS, COLUMNS, GUSSET PLATES AND BRACINGS.

SANDBLASTING, CLEANING AND PAINTING ALL STEEL ACROSS ENTIRE LENGTH OF VIADUCT FROM SOUTH ABUTMENT TO NORTH ABUTMENT AND FROM BOTTOM FLANGE OF GIRDERS TO UNDERSIDE OF DECK, AS WELL AS SUBSTRUCTURE REPAIRS.

CONCRETE HAUNCH REMOVAL AT UNDERSIDE OF DECK WHERE NOTED.

DESIGN DATA

MATERIAL PROPERTIES

NEW STRUCTURAL STEEL BEAMS/SHAPES (ASTM A709)... F_y = 36,000 PSI

DEAD LOAD

CONCRETE = 150 PCF
FWS = 20 PSF

LIVE LOAD

TAKEN FROM HSI, 08/19/2024
INVENTORY RATING: HS=18
OPERATING RATING: HS=25
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = N/A

TRAFFIC DATA

A.D.T. (2018) = 9,300 VEHICLES/DAY
A.D.T. (2035) = 12,579 VEHICLES/DAY
R.D.S. = 30 MPH

UTILITIES

EXISTING UTILITIES ARE TO BE KEPT IN SERVICE AND PROTECTED DURING THE REHABILITATION PROJECT. SEE PROJECT SPECIAL PROVISION FOR DETAILS ON UTILITY WORK.

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

EXISTING CONDUITS MOUNTED TO THE UNDERSIDE OF THE SUPERSTRUCTURE SHALL REMAIN IN PLACE AND BE PROTECTED DURING CONSTRUCTION. SEE PROJECT SPECIFICATIONS.

EXISTING LIGHT FIXTURES AND/OR CONDUITS MOUNTED AT SUPERSTRUCTURE, OR SUBSTRUCTURE MAY BE REMOVED WHILE WORK IS TAKING PLACE, THEN THEY NEED TO BE REINSTALLED. THIS IS INCIDENTAL TO BID ITEM SPV.0060.597 "PROTECTING UTILITIES".

SEE ROADWAY PLANS FOR EXISTING UTILITY LOCATIONS.

REVISED 12/18/2024 GJR

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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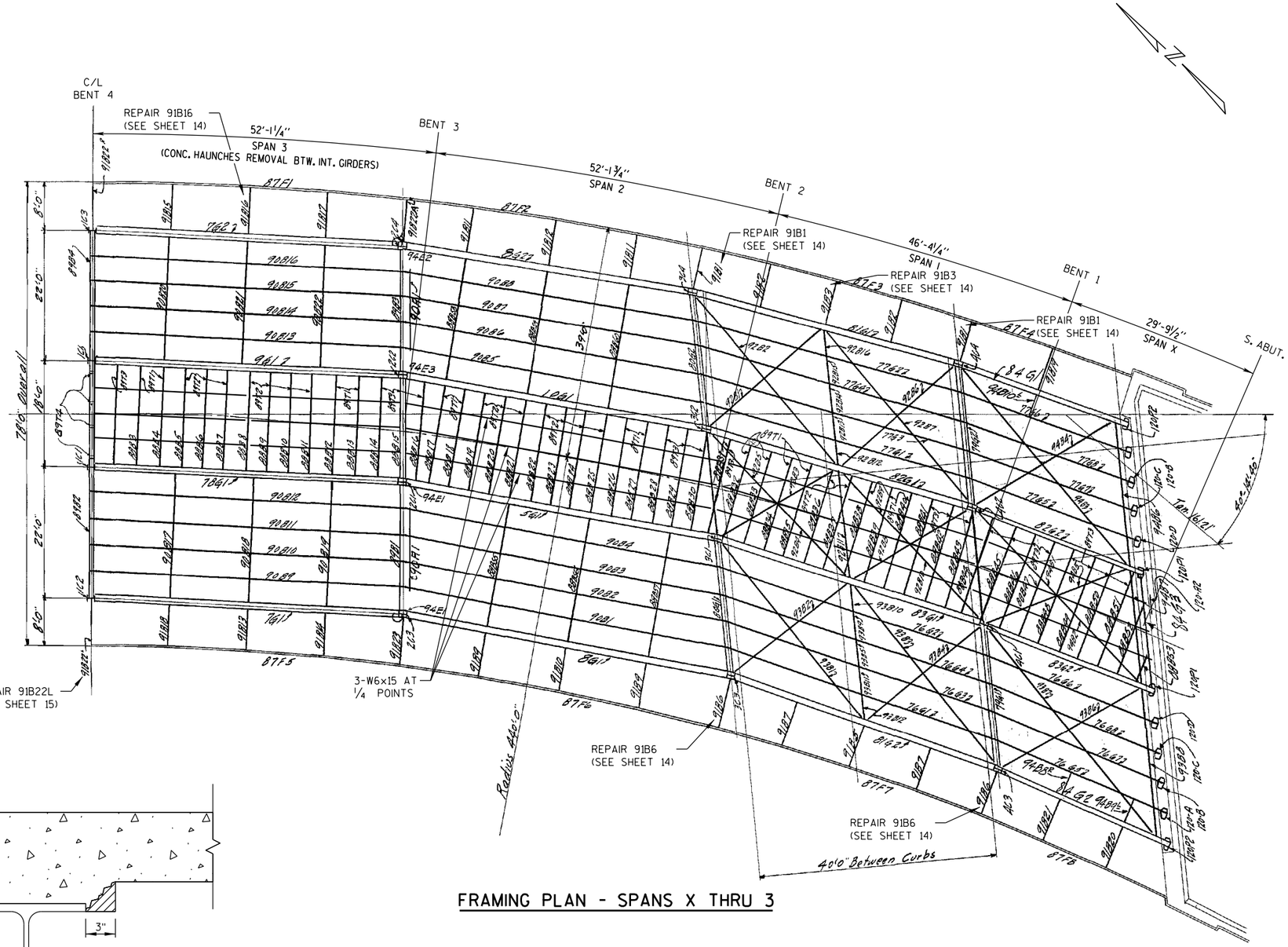
TOTAL ESTIMATED QUANTITIES

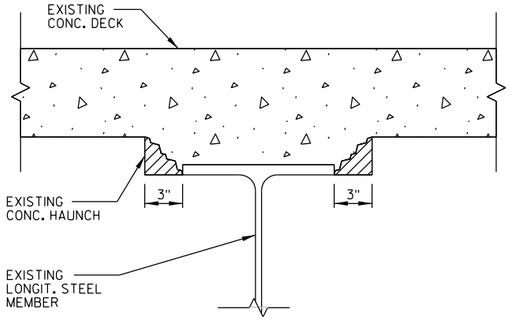
SHEET 6 OF 31
49

STATE PROJECT NUMBER

2984-12-75



FRAMING PLAN - SPANS X THRU 3



TYPICAL HAUNCH REMOVAL DETAIL

LEGEND

▨ = HAUNCH REMOVAL

NOTES

STEEL PART NUMBERS BASED ON 1926 PLANS.

CONC. HAUNCH REMOVAL AT BOTH SIDES OF INTERIOR GIRDERS AND STRINGERS.

SANDBLAST AND PAINT ALL SUPERSTRUCTURE STEEL.

EXISTING UTILITIES NOT SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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FRAMING PLAN SPANS X THRU 3

SHEET 7 OF 31

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REVISED: 12-17-2024 GJR

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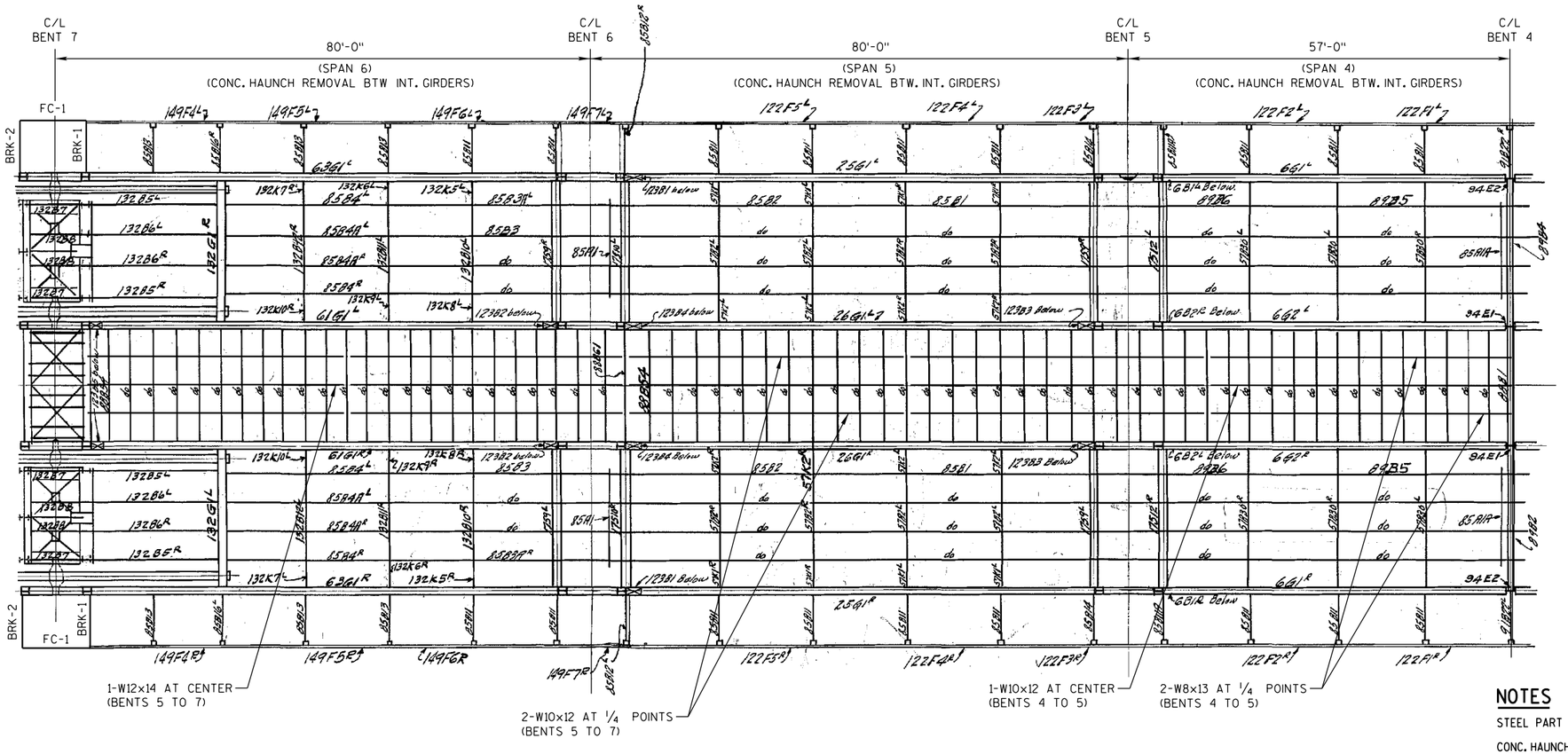
STATE PROJECT NUMBER
2984-12-75



FRAMING PLAN - SPANS 4 THRU 6

NOTES

STEEL PART NUMBERS BASED ON 1926 PLANS.

CONC. HAUNCH REMOVAL AT BOTH SIDES OF INTERIOR GIRDERS AND STRINGERS.

SANDBLAST AND PAINT ALL SUPERSTRUCTURE STEEL.

EXISTING UTILITIES NOT SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

DRAWN BY	PLANS CK'D.
GJR	HMD

FRAMING PLAN
SPANS 4 THRU 6

SHEET 8 OF 31
51

REVISED: 12-17-2024 GJR

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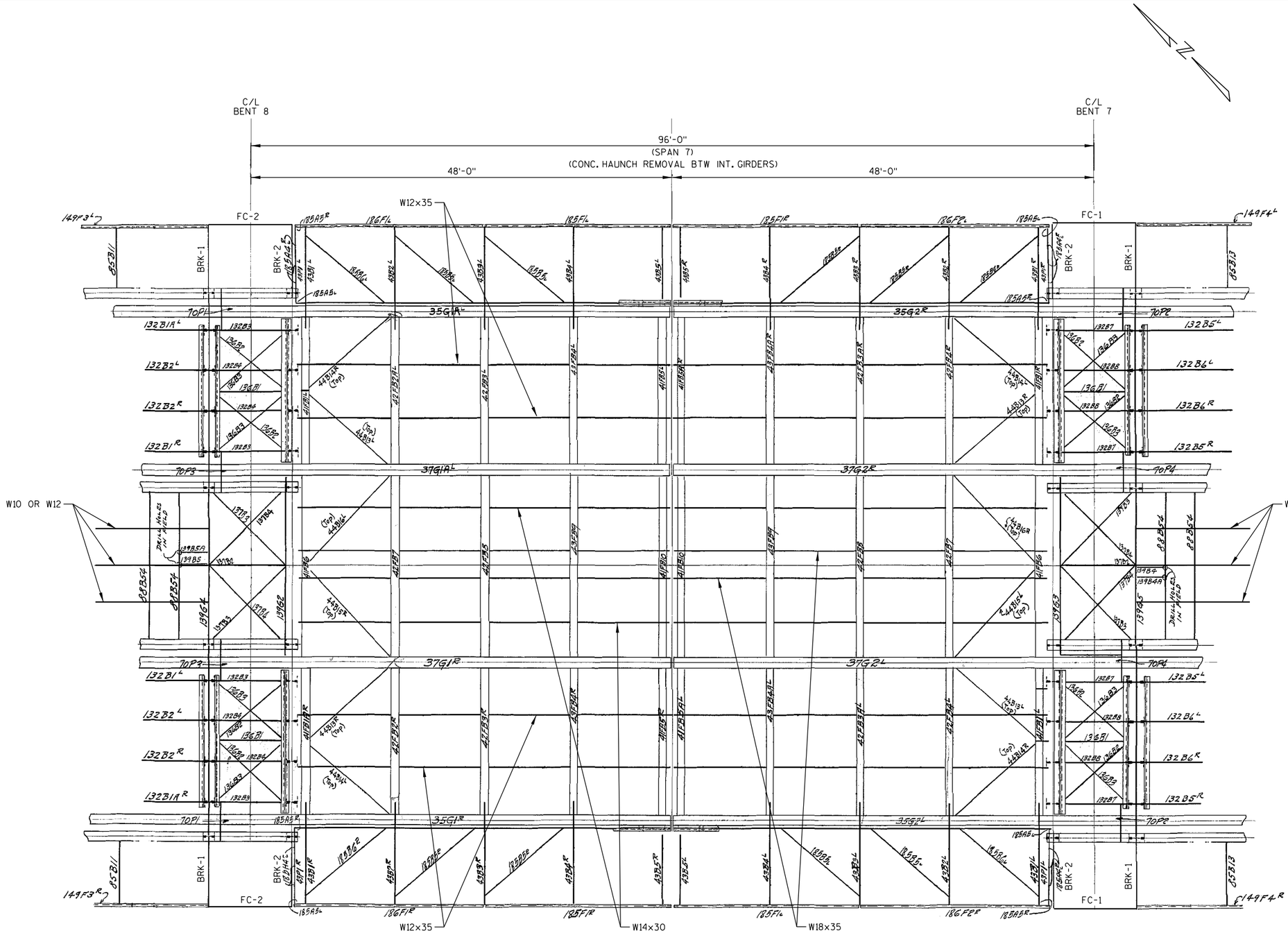
STATE PROJECT NUMBER
2984-12-75



NORTH - LEAF

SOUTH - LEAF

FRAMING PLAN - SPAN 7

NOTES

STEEL PART NUMBERS BASED ON 1926 PLANS.

CONC. HAUNCH REMOVAL AT BOTH SIDES OF INTERIOR GIRDERS AND STRINGERS.

SANDBLAST AND PAINT ALL SUPERSTRUCTURE STEEL.

EXISTING UTILITIES NOT SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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FRAMING PLAN
SPAN 7

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52

REVISED: 12-17-2024 GJR

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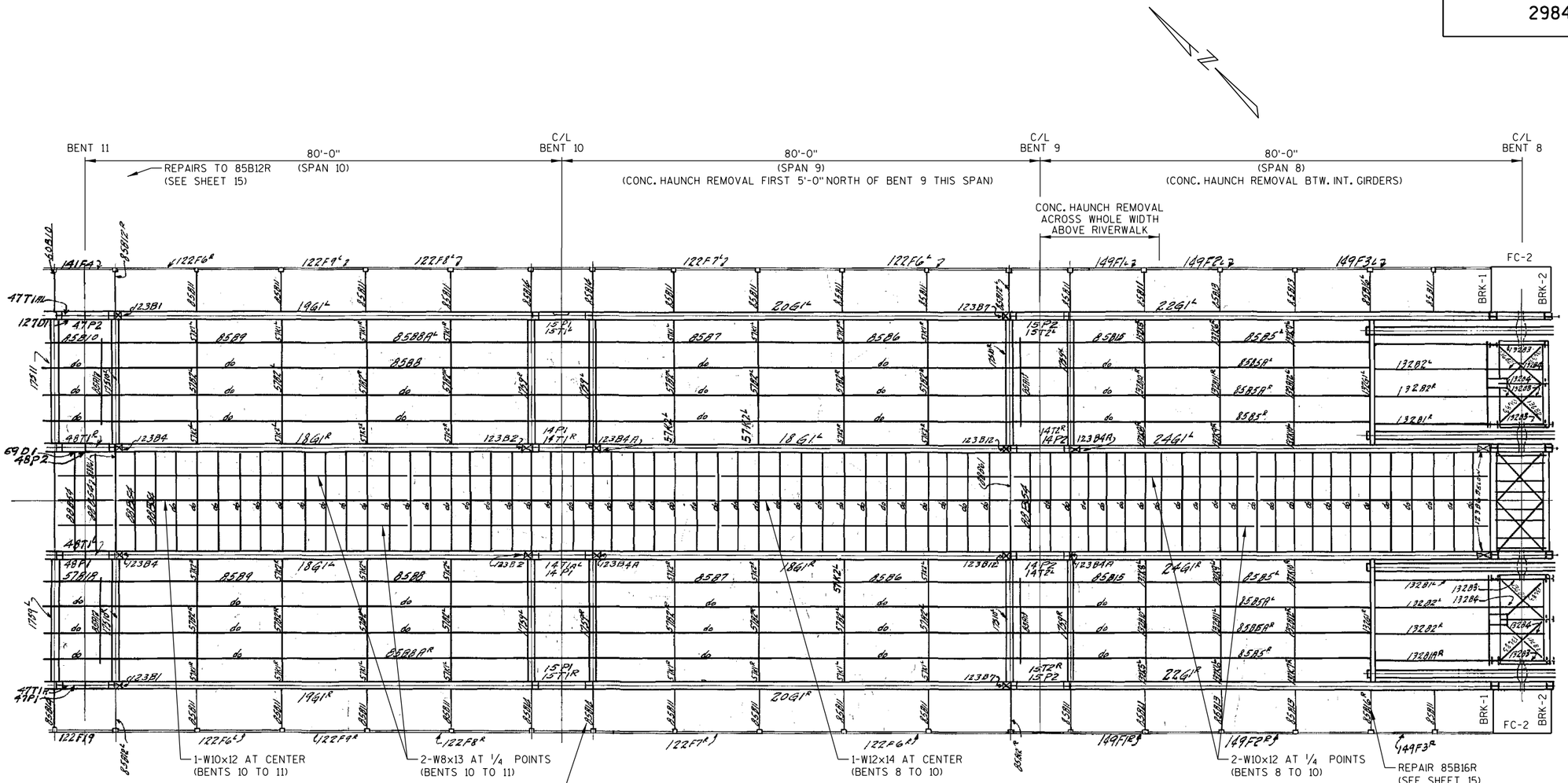
STATE PROJECT NUMBER
2984-12-75



FRAMING PLAN - SPANS 8 THRU 10

NOTES

STEEL PART NUMBERS BASED ON 1926 PLANS.

CONC. HAUNCH REMOVAL AT BOTH SIDES OF INTERIOR GIRDERS, STRINGERS AND INSIDE FLANGES OF EXTERIOR GIRDERS.

SANDBLAST AND PAINT ALL SUPERSTRUCTURE STEEL.

REMOVE AND REINSTALL EXISTING NETTING.

EXISTING UTILITIES NOT SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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FRAMING PLAN
SPANS 8 THRU 10

SHEET 10 OF 31
53

REVISED: 12-17-2024 GJR

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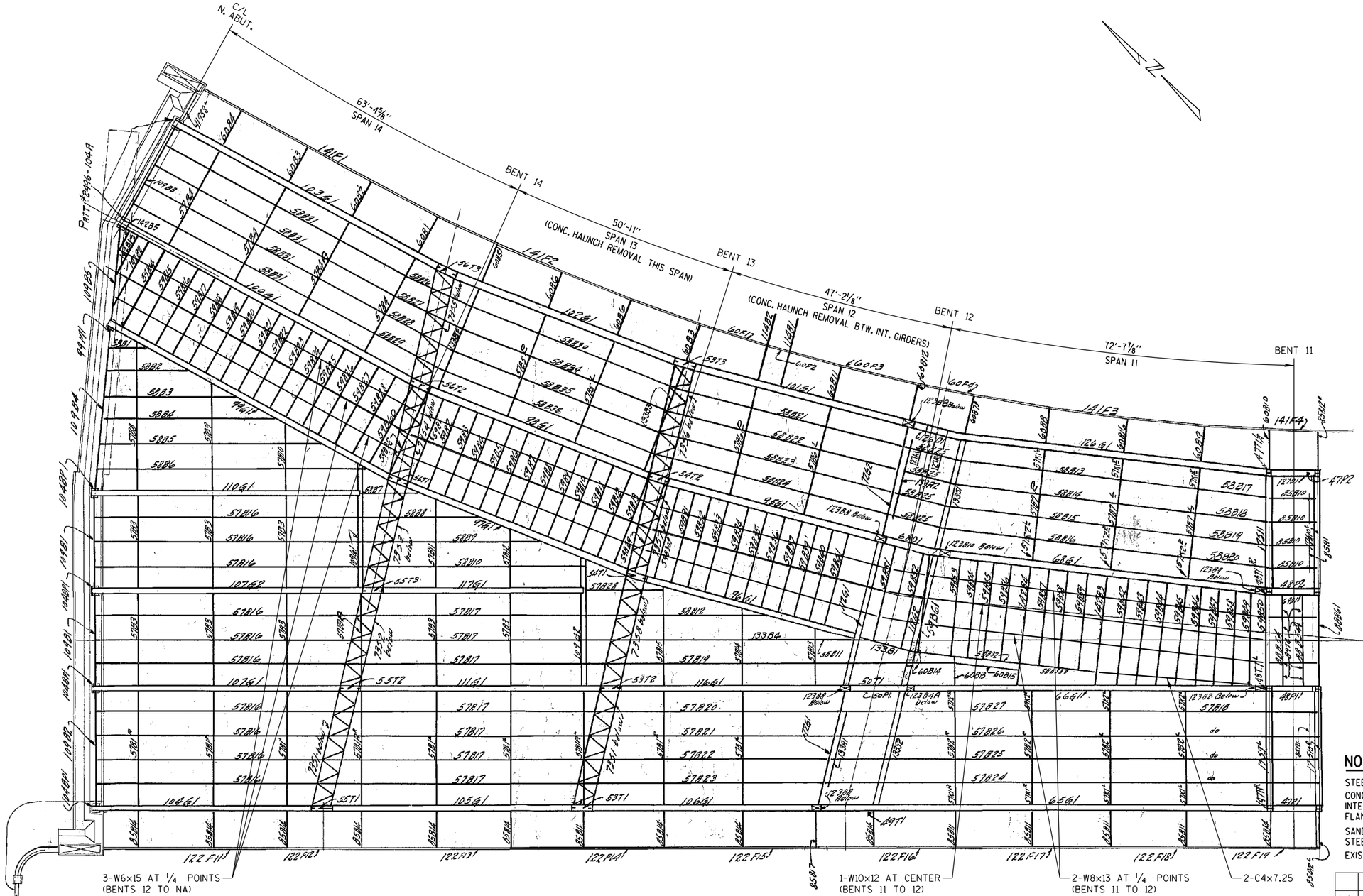
STATE PROJECT NUMBER
2984-12-75



FRAMING PLAN - SPANS 11 THRU 14

NOTES

STEEL PART NUMBERS BASED ON 1926 PLANS.

CONC. HAUNCH REMOVAL AT BOTH SIDES OF INTERIOR GIRDERS, STRINGERS, AND INSIDE FLANGES OF EXTERIOR GIRDERS.

SANDBLAST AND PAINT ALL SUPERSTRUCTURE STEEL.

EXISTING UTILITIES NOT SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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FRAMING PLAN
SPANS 11 THRU 14

SHEET 11 OF 31
54

REVISED: 12-17-2024 GJR

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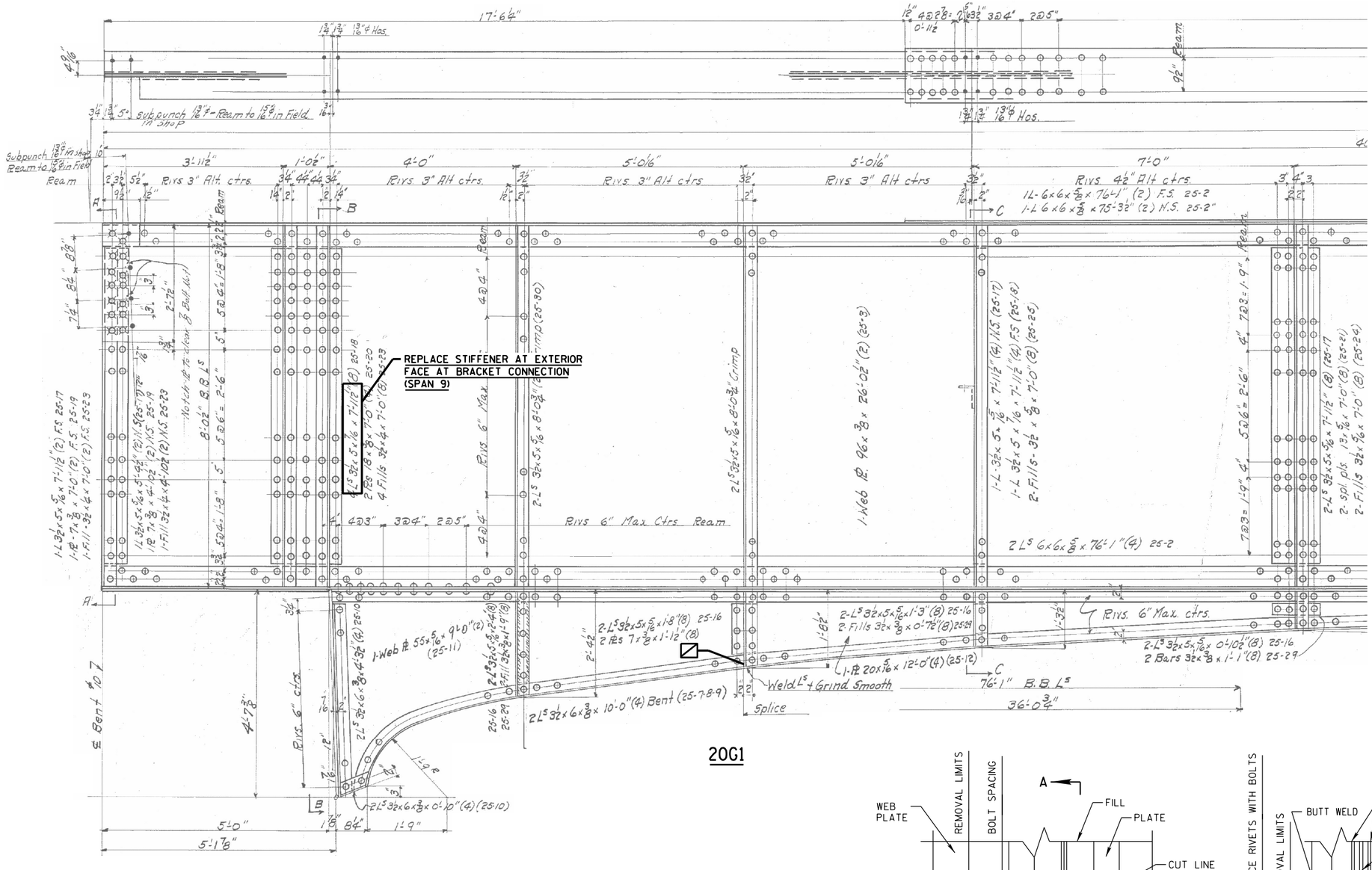
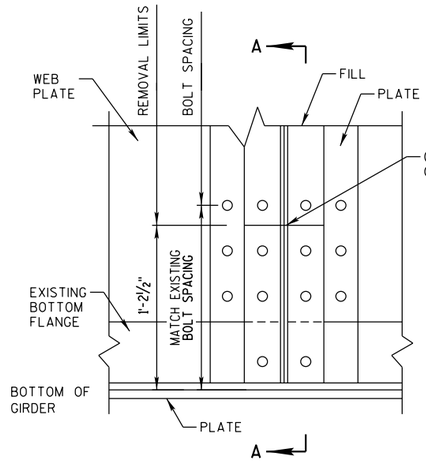
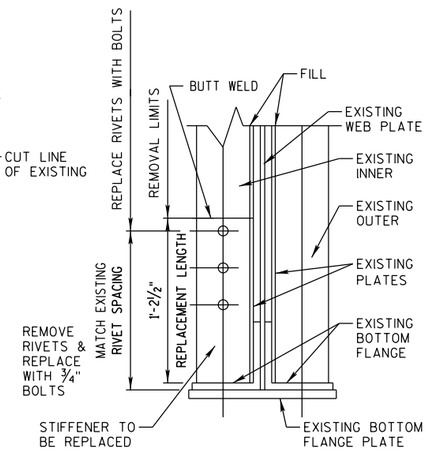


STIFFENER REPAIRS TABLE

STIFFENER LOCATION AT GIRDER	SPAN NUMBER	BOTTOM REPAIR LIMITS	MEMBER SIZE	DESCRIPTION & LOCATION
84G1 (EAST GIRDER)	X	1'-2 1/2"	L 3"X3 1/2"X3/8"	VERTICAL STIFFENER AT OUTSIDE FACE
8G1 (WEST GIRDER)	2	1'-2 1/2"	L 3 1/2"X5"X3/8"	VERTICAL STIFFENER AT OUTSIDE FACE
	2	1'-2 1/2"	L 3 1/2"X5"X3/8"	Z-BAR AT OUTSIDE FACE
8G2 (EAST GIRDER)	2	1'-2 1/2"	L 3 1/2"X5"X3/8"	VERTICAL STIFFENER AT OUTSIDE FACE
	2	1'-2 1/2"	L 3 1/2"X5"X3/8"	Z-BAR AT OUTSIDE FACE
7G2 (EAST GIRDER)	3	1'-2 1/2"	L 3"X5"X3/8"	VERTICAL STIFFENER AT OUTSIDE FACE
	3	1'-2 1/2"	2 PLS 14"X5/8"	Z-BAR AT OUTSIDE FACE
7G1 (WEST GIRDER)	3	1'-2 1/2"	L 3"X5"X3/8"	VERTICAL STIFFENER AT OUTSIDE FACE
	3	1'-2 1/2"	2 PLS 14"X5/8"	Z-BAR AT OUTSIDE FACE
65G1	11	1'-2 1/2"	L 5 1/2"X5"X3/8"	Z-BAR AT INSIDE FACE
	11		4-BOLTS	MISSING RIVETS AT STIFFENER AT INSIDE FACE



TYPICAL ELEVATION VIEW



SECTION A-A

TYPICAL STIFFENER REPAIR DETAIL

LEGEND

EXTERIOR GIRDER REPAIRS
SEE SHEET 13 FOR DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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20G1 MEMBER AND STIFFENERS REPAIR DETAILS

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55

REVISED: 08-28-2024 BY GJR

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STATE PROJECT NUMBER

2984-12-75

REVISED: 08-28-2024 BY GJR

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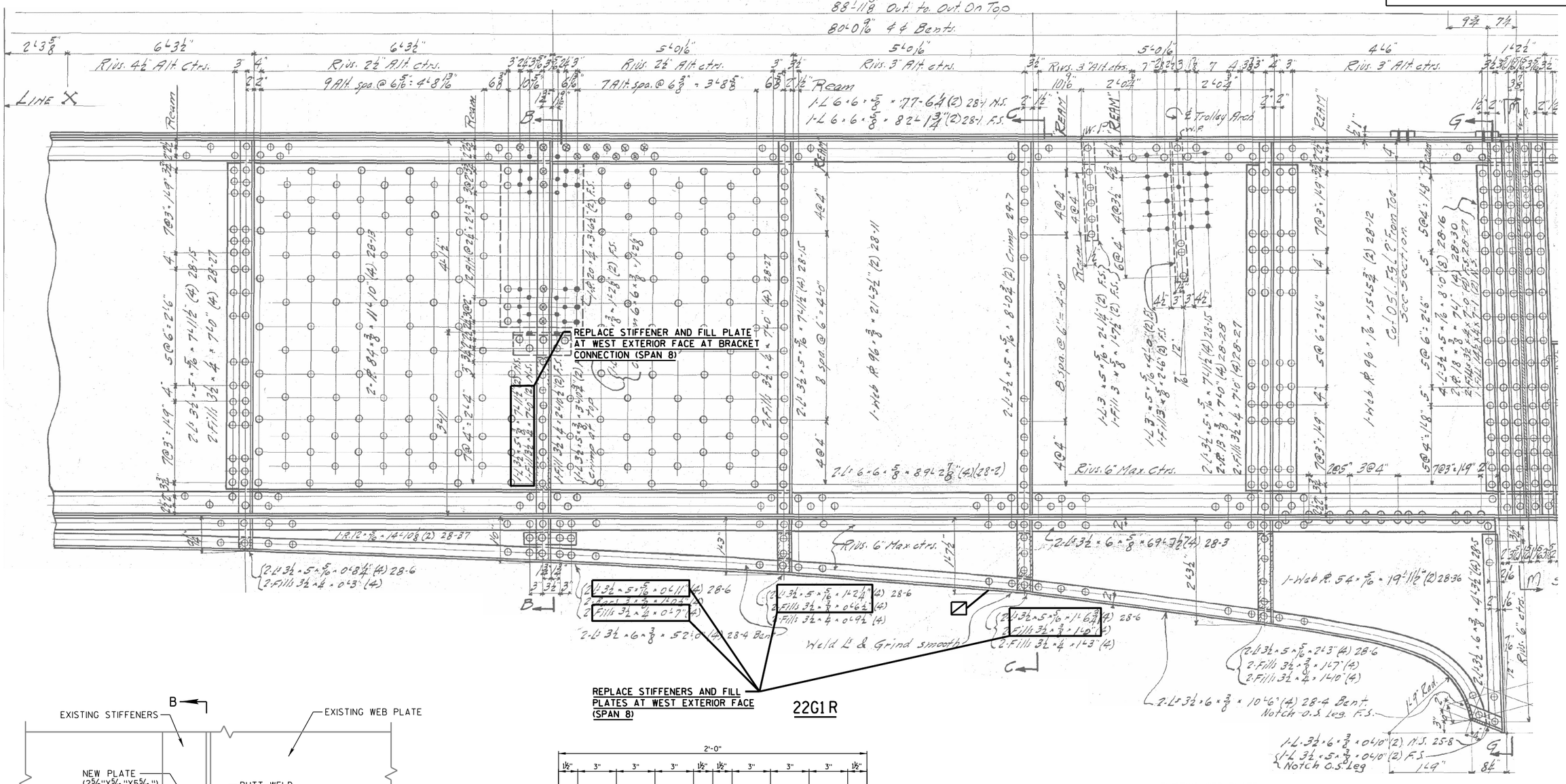
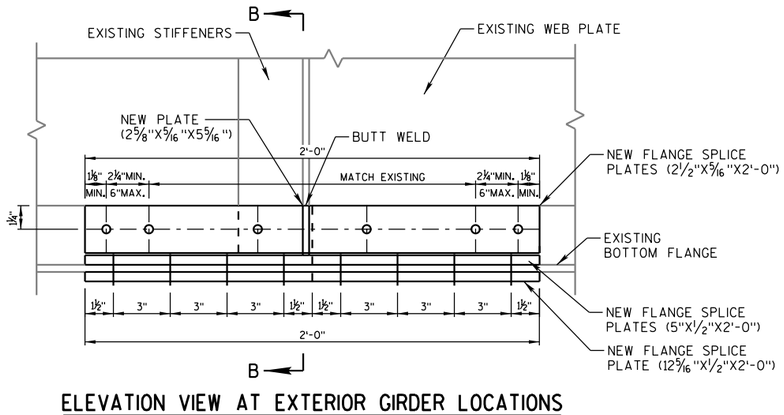
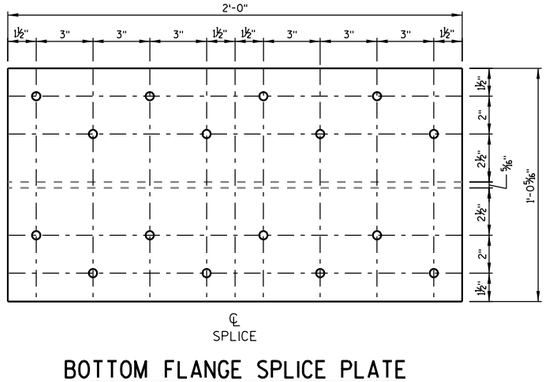


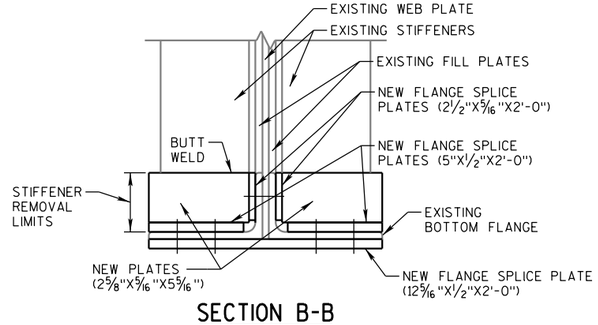


ELEVATION VIEW AT EXTERIOR GIRDER LOCATIONS

(NEW SPLICE PLATES SHOULD BE BENT TO ACCOUNT FOR EXISTING SKEW ALONG GIRDER)



BOTTOM FLANGE SPLICE PLATE



SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

DRAWN BY HMD | PLANS CK'D. HMD

22G1R MEMBER AND EXTERIOR GIRDER REPAIR DETAILS

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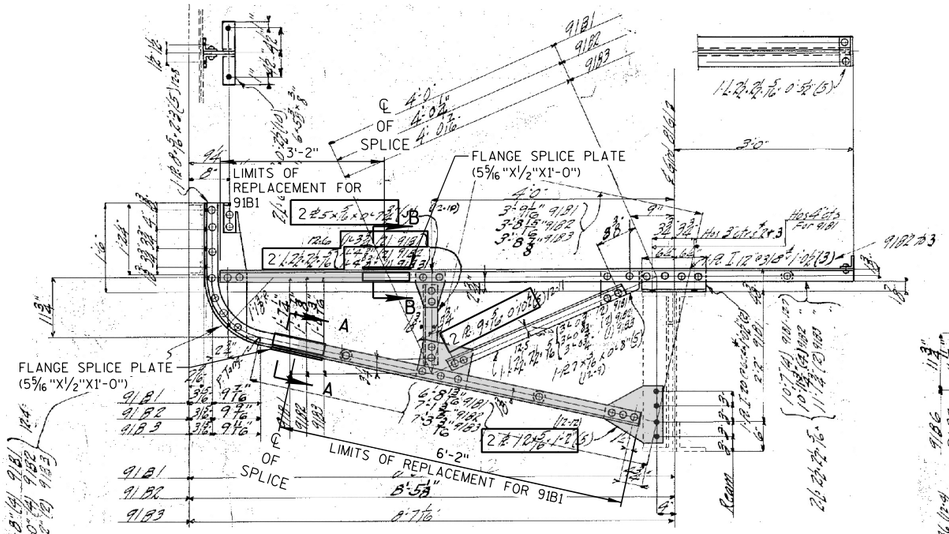
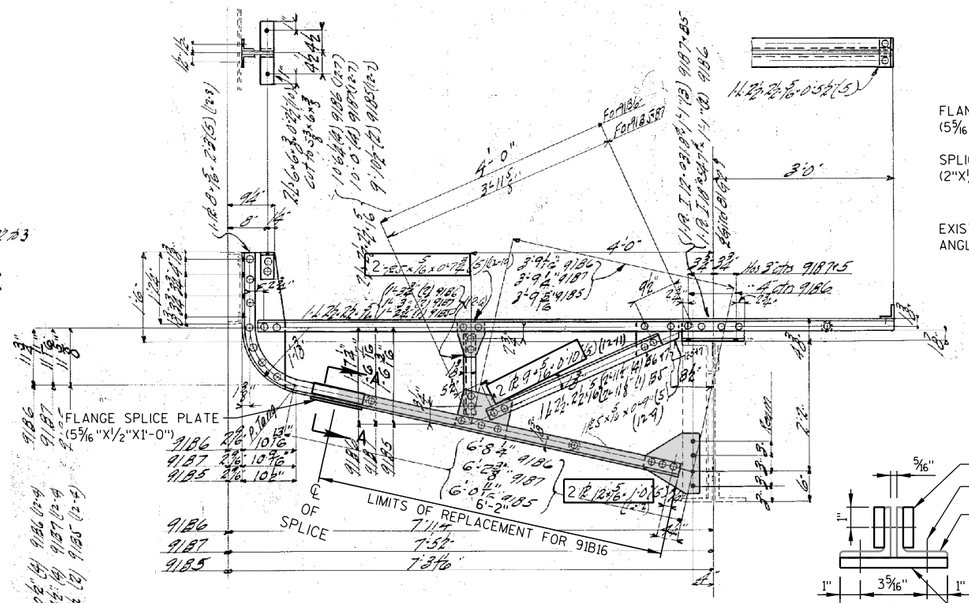
FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_13_22G1R MEMBER AND EXTERIOR GIRDER REPAIR DETAILS.dgn PLOT DATE : 12/17/2024 2:42:16 PM PLOT BY : grogal PLOT NAME : B0113_2025_13_22G1R MEMBER AND EXTERIOR GIRDER REPAIR DETAI

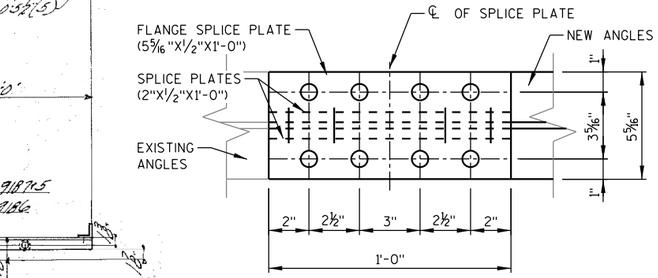
STATE PROJECT NUMBER
2984-12-75



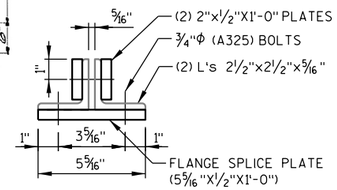
SIDEWALK BRACKETS 91B1 THRU 91B3
(REPAIRS TO (2) 91B1)



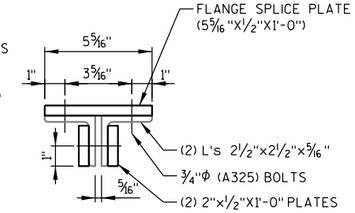
SIDEWALK BRACKETS 91B5 THRU 91B7
(REPAIRS TO (2) 91B6)



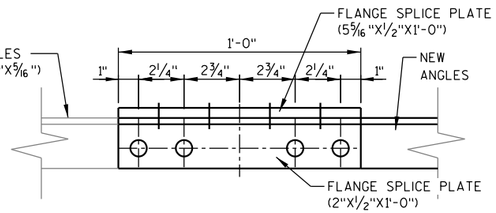
FLANGE SPLICE PLATE DETAIL



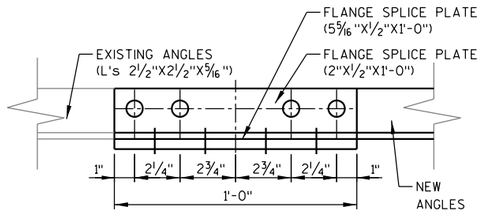
SECTION A-A



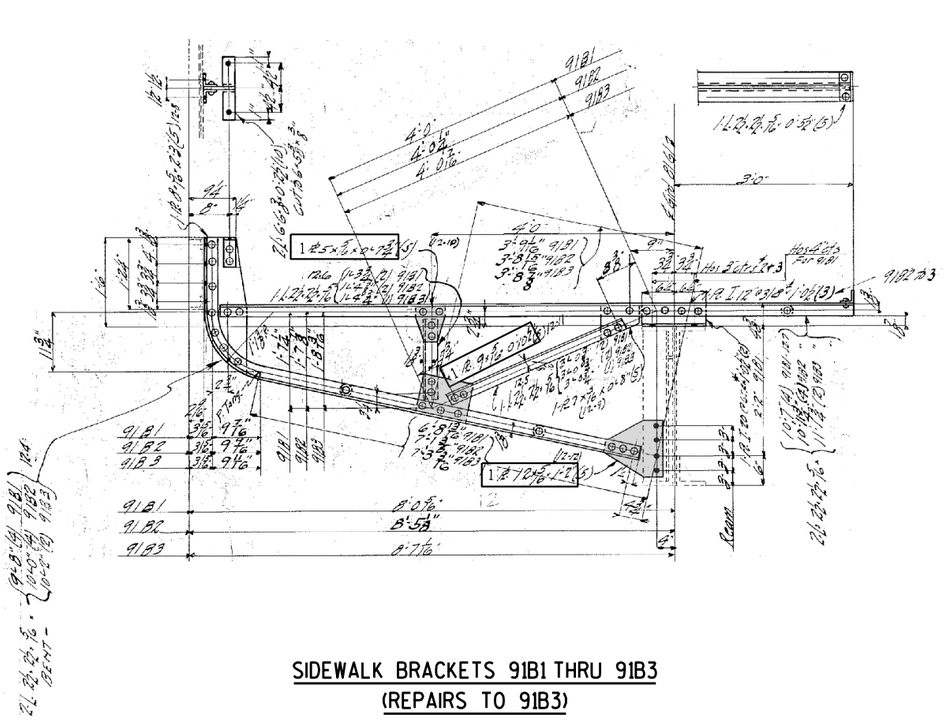
SECTION B-B



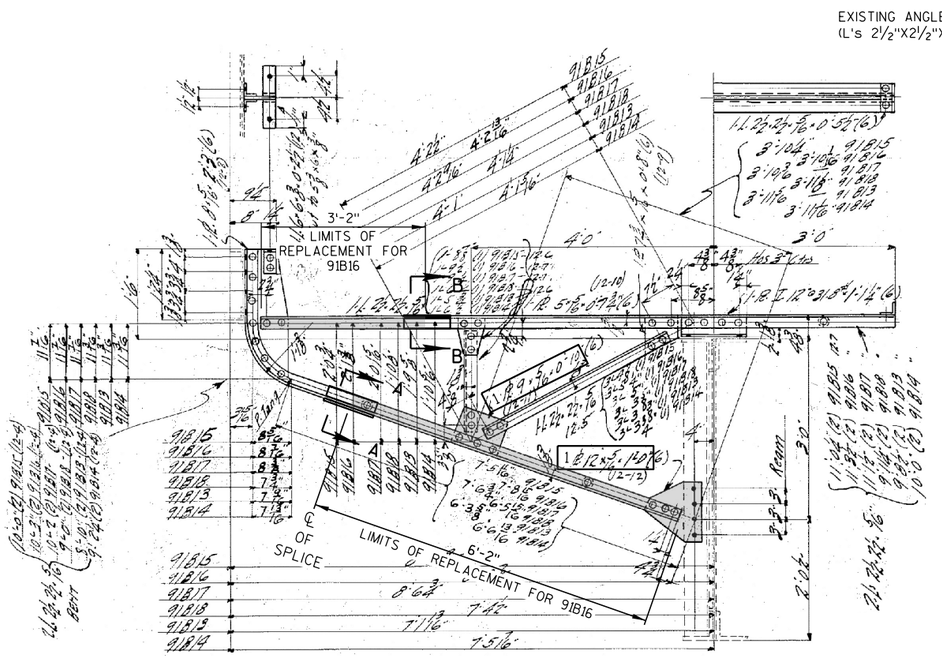
TOP SPLICE PLATE DETAIL



BOTTOM SPLICE PLATE DETAIL



SIDEWALK BRACKETS 91B1 THRU 91B3
(REPAIRS TO 91B3)



SIDEWALK BRACKETS 91B13 THRU 91B18
(REPAIRS TO 91B16)

LEGEND

: MEMBERS TO BE REPAIRED OR REPLACED

: REPLACED MEMBER DIMENSIONS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

DRAWN BY HMD | PLANS CK'D. HMD

91B1, 91B3, 91B6 & 91B16 SIDEWALK BRACKET DETAILS

SHEET 14 OF 31
57

REVISED: 08-21-2024 BY GJR

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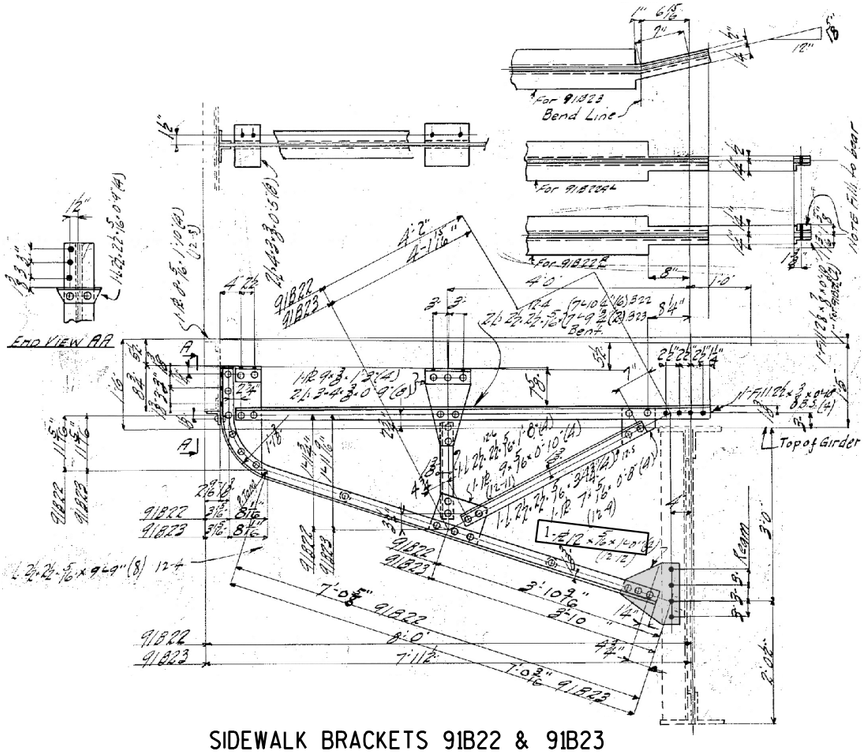
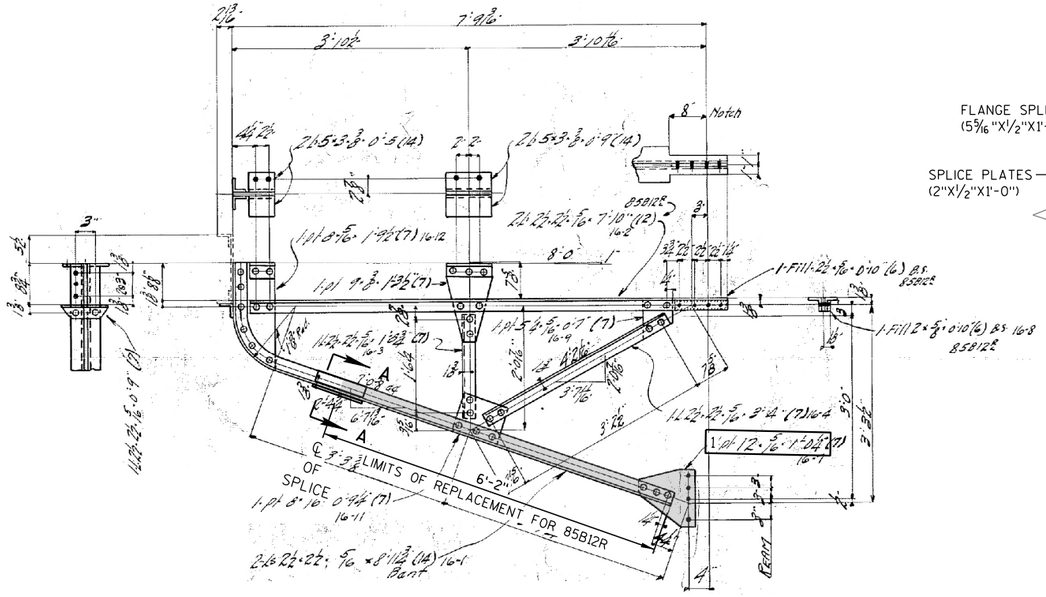
FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_14_91B1, 91B3, 91B6 AND 91B16 SIDEWALK BRACKET REPAIR DETAILS.dgn PLOT DATE : 12/17/2024 2:42:20 PM PLOT BY : grogal PLOT NAME : B0113_2025_14_91B1, 91B3, 91B6 AND 91B16 SIDEWALK BRACKET REI

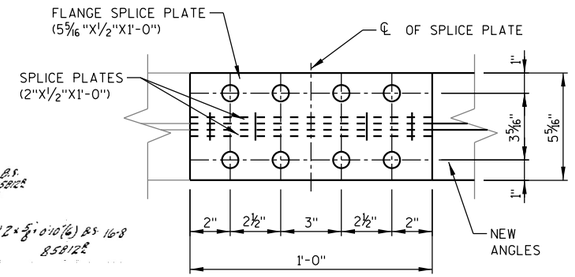
STATE PROJECT NUMBER
2984-12-75



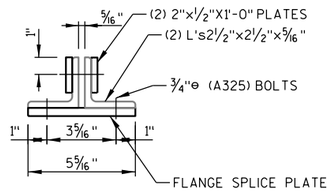
SIDEWALK BRACKETS 91B22 & 91B23
(REPAIRS TO 91B22L)



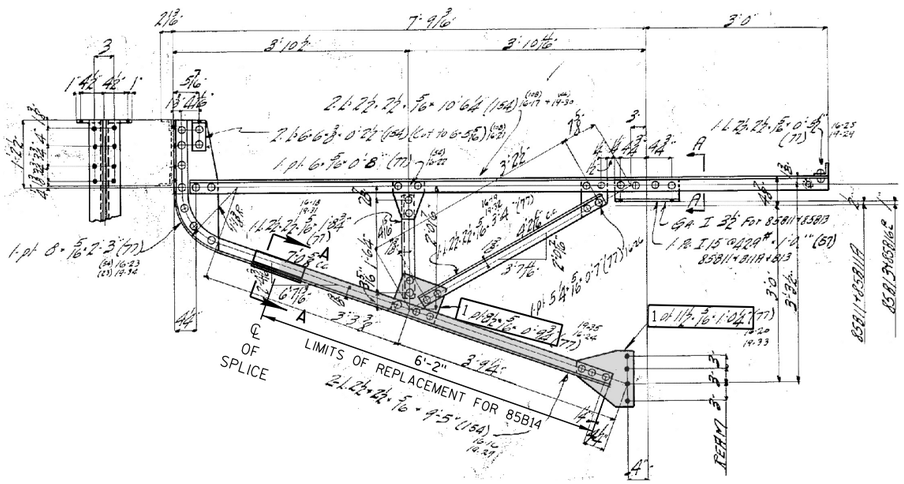
SIDEWALK BRACKETS 85B12 & 85B17
(REPAIRS TO 85B12R)



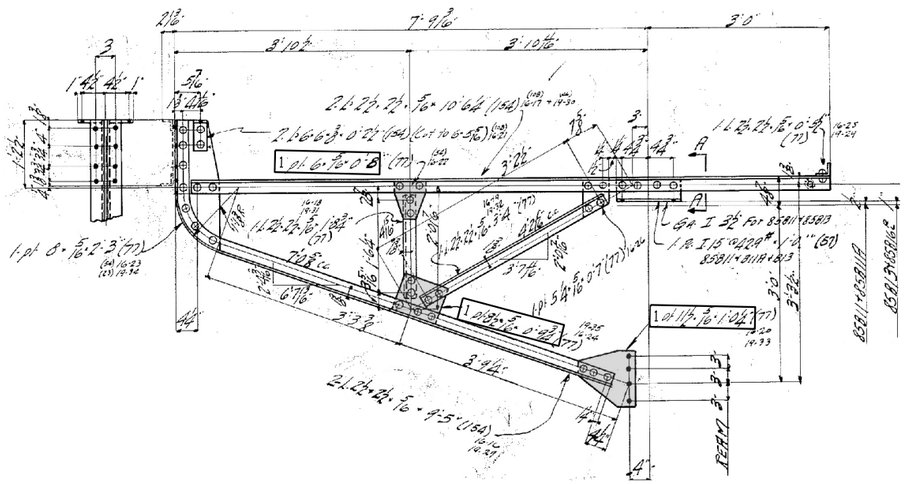
FLANGE SPLICE PLATE DETAIL



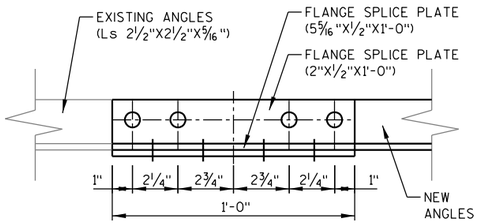
SECTION A-A



SIDEWALK BRACKETS 85B11, 85B13, 85B14 & 85B16
(REPAIRS TO 85B14)



SIDEWALK BRACKETS 85B11, 85B13, 85B14 & 85B16
(REPAIRS TO 85B16R)



BOTTOM SPLICE PLATE DETAIL

LEGEND

▩ : MEMBERS TO BE REPAIRED OR REPLACED

□ : REPLACED MEMBER DIMENSIONS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

DRAWN BY GJR | PLANS CK'D. HMD

91B22L, 85B12R, 85B14 & 85B16R SIDEWALK BRACKET DETAILS

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REVISED: 08-21-2024 BY GJR

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STATE PROJECT NUMBER

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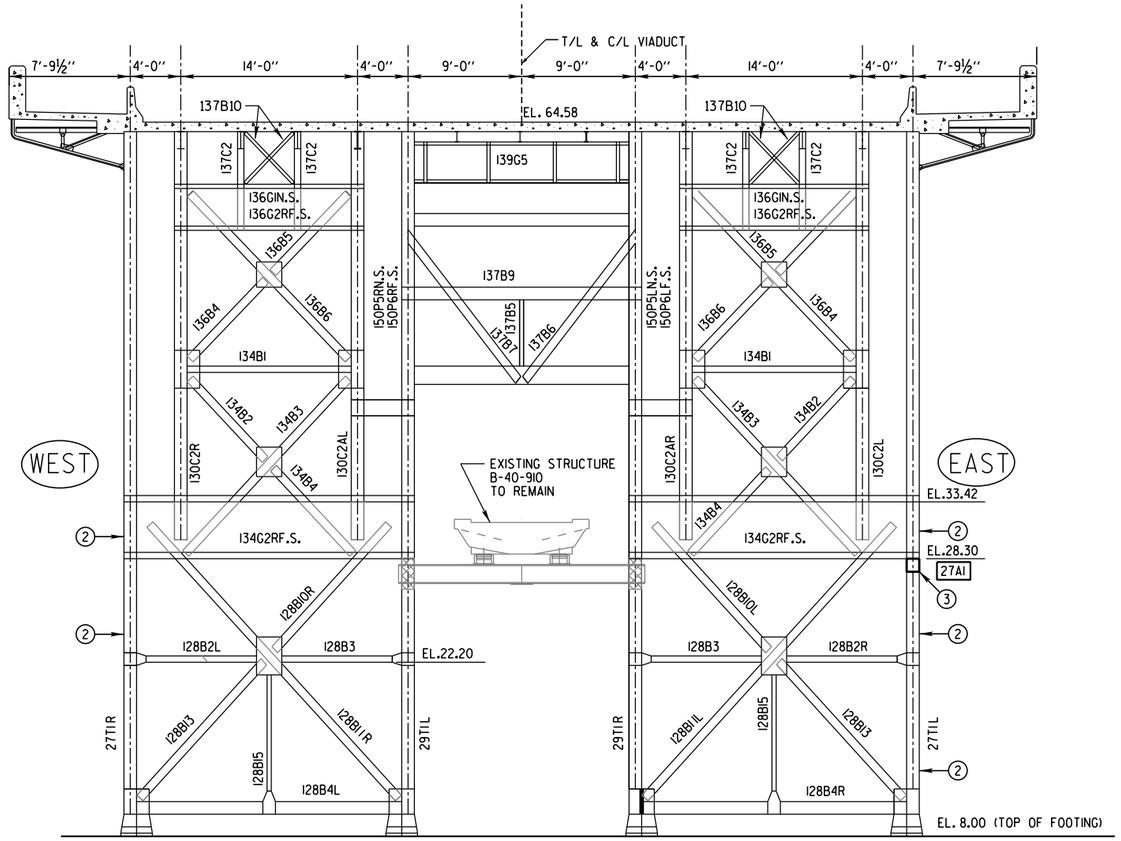
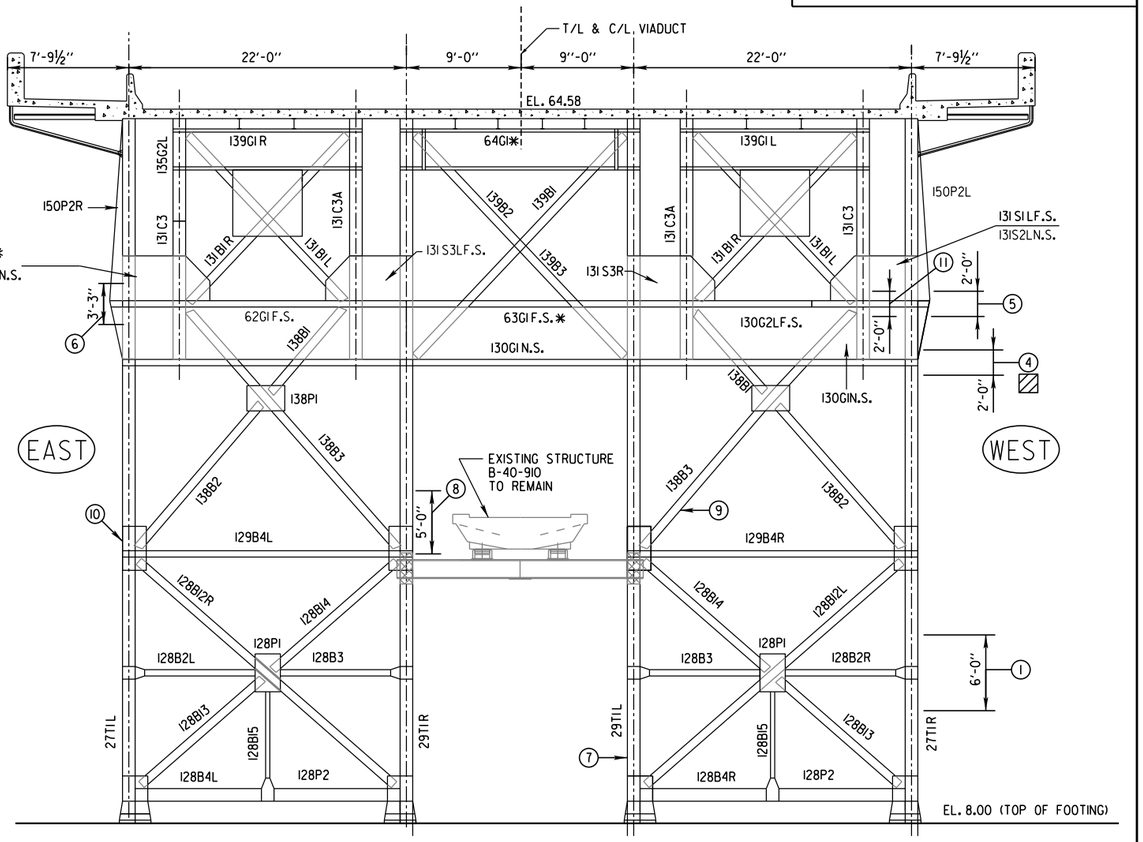


ELEVATION BENT 7 REAR VIEW LOOKING NORTH (F.S.)



ELEVATION BENT 7 FRONT VIEW LOOKING SOUTH (N.S.)

BENT 7 KEY:

XXXX* 1987 SHOP DRAWINGS PART NUMBER

XXXX 1926 SHOP DRAWING PART NUMBER

[XXXX] 1926 SHOP DRAWING PART NUMBER - REMOVE AND REPLACE PART

(1) ADD OUTER FLANGE PLATE (12½"X½"X6'-0") AND FILL PLATE (4"X½"X11¾") TO NORTH FLANGES OF 27TIR.
SEE SHEETS 18, 25 AND 28 FOR DETAILS.

(2) AT WEST ELEVATION OF WEST TOWER OF 27TIR.
- REPLACE GUSSET PLATE (27P4) AT 4TH LEVEL.
- REPLACE DIAGONAL BRACING AT 3RD AND 4TH LEVELS.

AT EAST ELEVATION OF EAST TOWER OF 27TIL.
- REPLACE GUSSET PLATE (27PI) AT IST LEVEL.
- REPLACE GUSSET PLATE (27P2) AT 3RD LEVEL.
- REPLACE GUSSET PLATE (27P3) AND DIAGONAL BRACING AT
- 4TH LEVEL.

SEE SHEET 18 FOR DETAILS.

(3) REPLACE BRACKET 27AI (L6"X6"X⅜"XI'-0½") AT 27TIL.
SEE SHEET 18 FOR DETAILS.

(4) ADD INNER FLANGE PLATE (5"X½"X2'-0") TO N.W. FLANGE OF 27TIR.
SEE SHEETS 19 AND 28 FOR DETAILS.

(5) ADD INNER FLANGE PLATE (5"X½"X2'-0") TO S.W. FLANGE OF 27TIR.
SEE SHEETS 19 AND 28 FOR DETAILS.

(6) REMOVE EXISTING WEB PLATES (7"X⅜"XI'-6½").
ADD (2) WEB FILL PLATES (7½"X7/16"X3'-3") AND (2) WEB PLATES (12¼"X½"X3'-3") TO BOTH EAST AND WEST FACES OF 27TIL.
SEE SHEETS 19 AND 28 FOR DETAILS.

(7) REPLACE DIAGONAL BRACING (C8"@13.75#X9'-2") AND GUSSET PLATE (29PI) AT 2ND LEVEL AT WEST TOWER - EAST ELEVATION.
SEE SHEET 20 FOR DETAILS.

(8) ADD (2) WEB FILL PLATES (7½"X⅝"X5'-0") AND (2) WEB PLATES (12¼"X½"X5'-0") TO BOTH EAST AND WEST FACES OF 29TIR.
SEE SHEETS 20 AND 29 FOR DETAILS.

(9) REPLACE LOWER BATTEN PLATE 138PI (8½"X⅜"XI'-I") AND 8 LACING BARS (2½"X⅜"XI'-3⅜") AT 138B3.
SEE SHEET 25 FOR DETAILS.

(10) REPLACE HORIZONTAL GUSSET PLATE (129PI) AT S.E. CORNER OF EAST TOWER HORIZONTAL BRACING.
SEE SHEET 26 FOR DETAILS.

(11) ADD (2) INNER FLANGE PLATES (5"X½"X2'-0") TO S.E. AND S.W. FLANGES OF 131C3.
SEE SHEETS 27 AND 31 FOR DETAILS.

NOTES

- SEE STRUCTURE B-40-910 FOR MODIFICATIONS TO ORIGINAL MEMBERS AND CONNECTIONS.
- USE EXISTING BOLT SPACING AT ALL GUSSET PLATE REPLACEMENT LOCATIONS.
- F.S. = FAR SIDE
- N.S. = NEAR SIDE
- MATCH EXISTING BOLT SPACING WHERE APPLICABLE.

▨: ADD SPLICE PLATE.

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STATE OF WISCONSIN
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STRUCTURE P-40-875

DRAWN BY GJR | PLANS CK'D. HMD

ELEVATIONS
BENT 7 (N/S)

SHEET 16 OF 31
59

REVISED DATE: 12-17-2024 BY GJR

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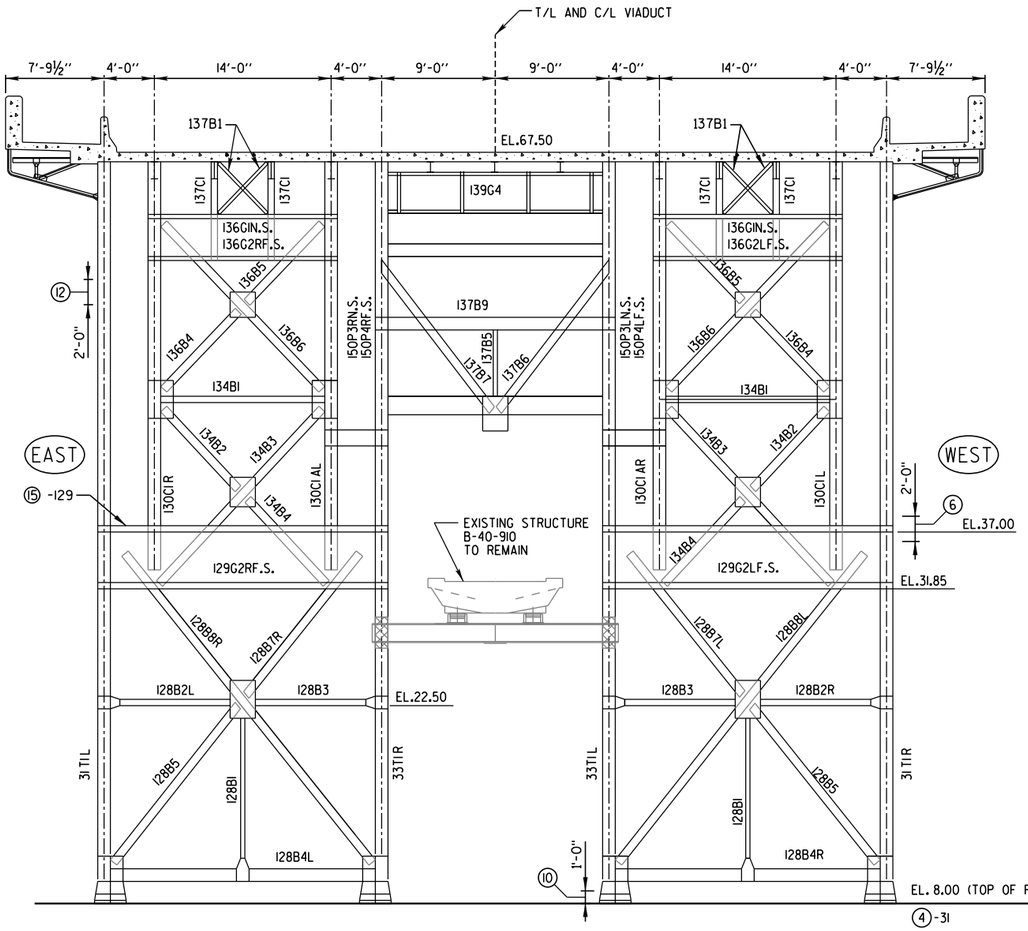
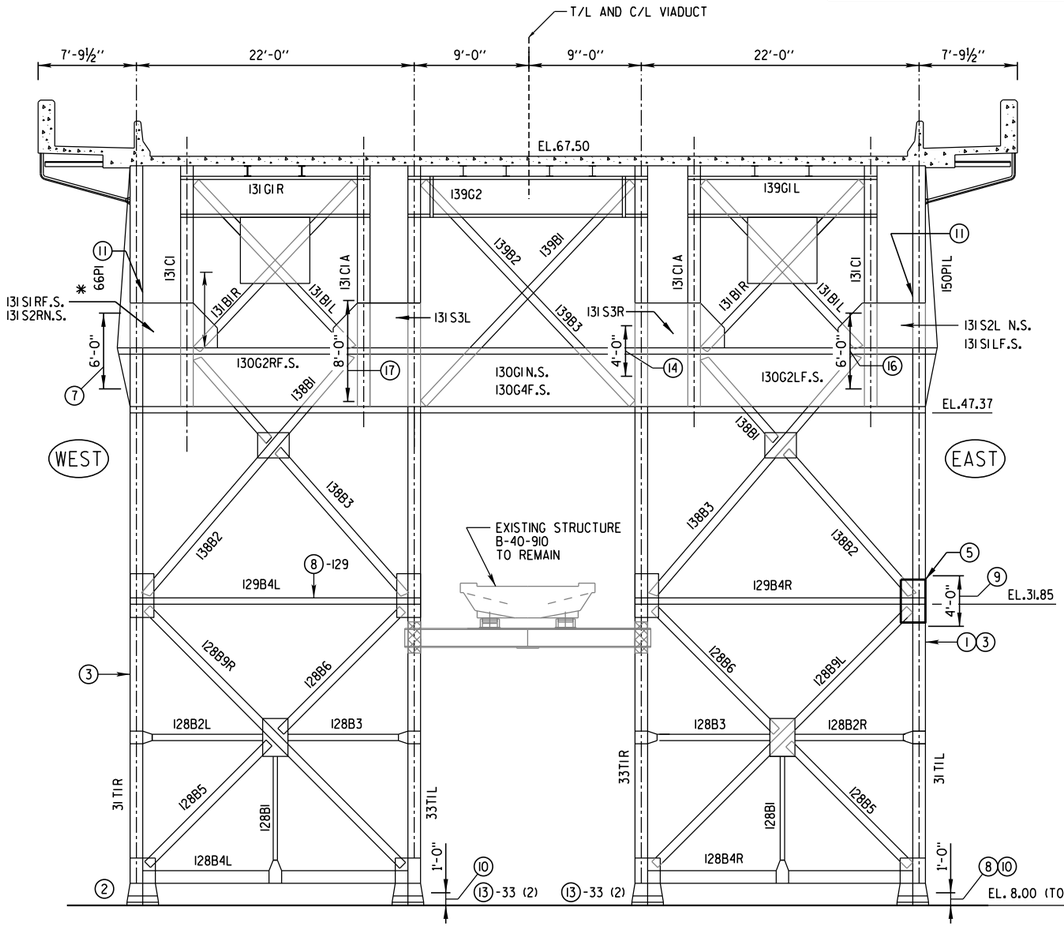
STATE PROJECT NUMBER

2984-12-75



ELEVATION BENT 8 REAR VIEW LOOKING SOUTH (F.S.)



ELEVATION BENT 8 FRONT VIEW LOOKING NORTH (N.S.)

BENT 8 KEY:

XXXX* 1987 SHOP DRAWINGS PART NUMBER

XXXX 1926 SHOP DRAWING PART NUMBER

[XXXX] 1926 SHOP DRAWING PART NUMBER - REMOVE AND REPLACE PART

(1) ADD (4) WEB PLATES (7"X½"XI'-6") TO LONGITUDINAL CHANNEL BRACING.
SEE SHEET 21 FOR DETAILS.

(2) REPLACE HORIZONTAL STIFFENER ANGLE 31AI (L8"X6"X⅝"X0'-11") AT 31TIR.
SEE SHEET 21 FOR DETAILS.

(3) REPLACE GUSSET PLATE (31PI) CONNECTING DIAGONAL BRACINGS LONGITUDINALLY AT 3RD LEVEL AT WEST TOWER.
REPLACE GUSSET PLATE (31P2) CONNECTING DIAGONAL BRACINGS LONGITUDINALLY AT 3RD LEVEL AT EAST TOWER.
SEE SHEET 21 FOR DETAILS.

(4)-31, MODIFY WING BASE PLATES (31P3 AND 31P4).
SEE SHEET 21 FOR DETAILS.

(5) REPLACE INNER GUSSET PLATE (31P5).
SEE SHEET 21 FOR DETAILS.

(6) ADD INNER FLANGE PLATE (5"X½"X2'-0") TO N.E. FLANGE OF 31TIR.
SEE SHEETS 21 AND 30 FOR DETAILS.

(7) ADD INNER FLANGE PLATE (5"X½"X6'-0") TO S.E. FLANGE OF 31TIR.
SEE SHEETS 21 AND 30 FOR DETAILS.

(8) ADD INNER FLANGE PLATE (5"X½"XI'-0") TO S.E. FLANGE OF 31TIL.
SEE SHEET 21 AND 30 FOR DETAILS.

(9) ADD (2) INNER FLANGE PLATES (5"X½"X4'-0") TO S.E. AND N.E. FLANGES OF 31TIL.
SEE SHEETS 21 AND 30 FOR DETAILS.

(10) ADD (2) FLANGE PLATES (4"X½"XI'-0") TO ANCHOR BOLT STIFFENER AT 31TIL (1 LOCATION) AND 33TIL (2 LOCATIONS).
SEE SHEETS 21 AND 23 FOR DETAILS.

(11) ADD (2) INNER FLANGE PLATES (5"X½"X7'-8") TO EAST AND WEST SIDES OF LONGITUDINAL GIRDER.
SEE SHEET 22 FOR DETAILS.

(12) ADD (2) INNER FLANGE PLATES (5"X½"X2'-0") TO N.E. AND N.W. FLANGES OF 31TIL.
SEE SHEETS 22 AND 30 FOR DETAILS.

(13)-33, MODIFY WING BASE PLATES (33PI) (2 LOCATIONS).
SEE SHEET 23 FOR DETAILS.

(14) ADD INNER FLANGE PLATE (5"X½"X4'-0") TO S.E. FLANGE OF 33TIR.
SEE SHEETS 24 AND 30 FOR DETAILS.

(15)-129, REPLACE HORIZONTAL GUSSET PLATES (129PI).
SEE SHEET 26 FOR DETAILS.

(16) ADD (2) WEB PLATES (7"X½"X6'-0") TO 131CI AND (1) INNER FLANGE PLATE (5"X½"X4'-0") TO N.W. FLANGE OF 131CI.
SEE SHEETS 27 AND 31 FOR DETAILS.

(17) ADD (1) INNER FLANGE PLATE (5"X½"X4'-0") TO N.W. FLANGE OF 131CIA.
ADD (1) WEB PLATE (7"X½"X8'-0") TO WEST FACE OF 131CIA.
SEE SHEETS 27 AND 31 FOR DETAILS.

NOTES

- SEE STRUCTURE B-40-910 FOR MODIFICATIONS TO ORIGINAL MEMBERS AND CONNECTIONS.
- USE EXISTING BOLT SPACING AT ALL GUSSET PLATE REPLACEMENT LOCATIONS.
- F.S. = FAR SIDE
- N.S. = NEAR SIDE
- MATCH EXISTING BOLT SPACING WHERE APPLICABLE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

DRAWN BY GJR | PLANS CK'D. HMD

ELEVATIONS
BENT 8 (N/S)

SHEET 17 OF 31
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REVISED DATE: 12-17-2024 BY GJR

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FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_17_ELEVATIONS BENT 8 (N-S).dgn PLOT DATE : 12/18/2024 9:53:35 AM PLOT BY : grogal PLOT DATE :PLOT NAME : B0113_2025_17_ELEVATIONS BENT 8 (N-S).dgn PLOT SCALE : 12.0000 FT / in.

STATE PROJECT NUMBER

2984-12-75

NOTE (1) SHEET 16.
ADD NEW OUTER FLANGE PLATE (12½"X½"X6'-0") TO NORTH FLANGES OF 27T1R. SEE SHEET 28 FOR DETAILS.

NOTE (2) SHEET 16.
- REPLACE (1) GUSSET PLATE (27P4) AT 4TH LEVEL.
- REPLACE DIAGONAL BRACING CHANNEL AT 3RD AND 4TH LEVELS (9'-2").
- REPLACE (2) DIAGONAL BRACING CHANNELS AT 4TH LEVEL (4'-0½").

AT 27T1R

- REPLACE (3) GUSSET PLATES (27P1, 27P2, 27P3) AT 1ST, 3RD AND 4TH LEVELS.
- REPLACE DIAGONAL BRACING CHANNEL AT 4TH LEVEL (9'-2").

AT 27T1L

NOTE (3) SHEET 16.
REPLACE 27A1

SECTION AA

SECTION BB

VIEW-C-C

VIEW-D-D

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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27T1R/L MEMBER DETAILS (1 OF 2)

SHEET 18 OF 31
61

REVISED DATE: 12-09-2024 BY GJR

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FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_18_27T1RL MEMBER DETAILS (1 OF 2).dgn PLOT DATE : 12/17/2024 4:18:11 PM PLOT BY : grogal PLOT NAME : B0113_2025_18_27T1RL MEMBER DETAILS (1 OF 2).dgn

STATE PROJECT NUMBER

2984-12-75

NOTE (5) SHEET 16.
ADD NEW INNER FLANGE PLATE (5"X1/2"X2'-0") TO S.W. FLANGE OF 27T1R.
SEE SHEET 28 FOR DETAILS.

NOTE (4) SHEET 16.
ADD NEW INNER FLANGE PLATE (5"X1/2"X2'-0") TO N.W. FLANGE OF 27T1R.
SEE SHEET 28 FOR DETAILS.

NOTE (6) SHEET 16.
REMOVE EXISTING WEB PLATES AT BOTH FACES AND ADD NEW (2) WEB FILL PLATES. (7 1/2"X7/16"X3'-3") AND (2) WEB PLATES (12 1/4"X1/2"X3'-3") TO 27T1L.
SEE SHEET 28 FOR DETAILS.

SECTION AA

SECTION B-B

27T1L (continued from Sht #27)

Section A-A

REVISED DATE: 11-26-2024 BY GJR

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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27T1R/L
MEMBER DETAILS
(2 OF 2)

SHEET 19 OF 31
62

FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_19_27T1RL MEMBER DETAILS (2 OF 2).dgn PLOT DATE : 12/18/2024 1:41:03 PM PLOT BY : grogal PLOT NAME : B0113_2025_19_27T1RL MEMBER DETAILS (2 OF 2).dgn

STATE PROJECT NUMBER

2984-12-75

BASE MATERIAL
1-Base PL 30"x1-3/4"x4'-4" (4) (39-2)
2-Side PL 21"x1-1/4"x2'-6" (8) (39-3)
2-" L8"x6"x1-1/8"x2'-6" (8) (39-4)
4-L8"x6"x7/8"x1'-1" (16) (39-5)
2-L8"x6"x7/8"x0'-10 1/2" (8) (39-5)
4-Stiff L5"x3 1/2"x3/8"x1'-9 15/16" (39-7) Grind to Bear

NOTE (8) SHEET 16.
ADD (2) WEB FILL PLATES (7 1/2"X5/8"X5'-0") AND (2) WEB PLATES (12 1/4"X1 1/2"X5'-0") TO EAST AND WEST FACES OF 29T1R.
SEE SHEET 29 FOR DETAILS.

REPLACE DIAGONAL BRACING

REPLACE 29P1 (22"X3/8"X2'-5 1/2")

NOTE (7) SHEET 16.

2-INSIDE TOWERS 29T1R
(Continued On Sheet #30)

SECTION A-A

SECTION B-B

VIEW C-C

VIEW D-D

NO.	DATE	REVISION	BY

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STRUCTURE P-40-875

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29T1 R/L
MEMBER DETAILS

SHEET 20 OF 31
63

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STATE PROJECT NUMBER

2984-12-75

NOTE ② SHEET 17.
31A1

NOTE ⑧ SHEET 17.
ADD NEW INNER FLANGE PLATE (5"X1/2"X1'-0") TO S.E. FLANGE OF 31T1L.
SEE SHEET 30 FOR DETAILS.

NOTE ⑩ SHEET 17.
ADD (2) FLANGE PLATES (4"X1/2"X1'-0") TO STIFFENER ANGLE.

NEW FLANGE PLATE
NOTE ⑩ SHEET 17.

NOTE ⑦ SHEET 17.
ADD INNER FLANGE PLATE (5"X1/2"X6'-0") TO S.E. FLANGE OF 31T1R.
SEE SHEET 30 FOR DETAILS.

NOTE ③ SHEET 17.
31P1 AND 31P2

(REPLACE 3RD LEVEL GUSSET PLATE AT WEST AND EAST TOWERS).

NOTE ① SHEET 17.
ADD WEB PLATES
(7"X1/2"X1'-6")
(2) AT W. ELEV. AT EAST TOWER.
(2) AT E. ELEV. AT EAST TOWER.

2-OUTSIDE TOWERS 31T1R
(Continued on Sheet # 32)

NOTE ⑥ SHEET 17.
ADD INNER FLANGE PLATE (5"X1/2"X2'-0") TO N.E. FLANGE OF 31T1R.
SEE SHEET 30 FOR DETAILS.

NOTE ⑨ SHEET 17.
ADD NEW INNER FLANGE PLATES (5"X1/2"X4'-0") TO S.E. AND N.E. FLANGES OF 31T1L.
SEE SHEET 30 FOR DETAILS.

NOTE ⑤ SHEET 17.
31P5

NEW OUTER PLATE 31P3

NEW INNER PLATE 31P4

GRIND BEVEL IN ADJACENT ANGLE LEGS AND PLATES 31P3 AND 31P4 WELD WITH PARTIAL JOINT PENETRATION GROOVE WELD AT VERTICAL AND HORIZONTAL LEGS OF PLATE.
NOTE ④ SHEET 17.

VIEW D-D

VIEW C-C

SECTION A-A

SECTION B-B

REVISION DATE: 12-17-2024 BY GJR

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STRUCTURE P-40-875

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31T1 R/L
MEMBER DETAILS
(1 OF 2)

SHEET 21 OF 31
64

FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_21_31T1RL MEMBER DETAILS (1 OF 2).dgn
PLOT DATE : 12/18/2024 1:41:11 PM PLOT BY : grogal
PLOT NAME : B0113_2025_21_31T1RL MEMBER DETAILS (1 OF 2).dgn

STATE PROJECT NUMBER

2984-12-75

NOTE (12) SHEET 17.
ADD (2) NEW INNER FLANGE PLATES (5"X½"X2'-0") TO N.E. AND N.W. FLANGES OF 31T1L.
SEE SHEET 30 FOR DETAILS.

NOTE (11) SHEET 17.
(2 LOCATIONS)
ADD (2) TOP AND BOTTOM INNER FLANGE PLATES (5"X½"X7'-8") TO 31T1R/L.
(MATCH EXISTING BOLT HOLES AND TRIM TOP PLATE BETWEEN STIFFENERS).

SECTION AA

SECTION BB

Section XX

31T1E Continued From Sht #31

31T1R Continued From Sht #31

Not Reamed

See Note X

See Note Y

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STRUCTURE P-40-875

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31T1 R/L
MEMBER DETAILS
(2 OF 2)

SHEET 22 OF 31
65

FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_22_31T1RL MEMBER DETAILS (2 OF 2).dgn

PLOT DATE : 12/18/2024 1:41:14 PM PLOT BY : grogal

PLOT NAME : B0113_2025_22_31T1RL MEMBER DETAILS (2 OF 2).dgn

STATE PROJECT NUMBER

2984-12-75

BASE MATERIAL
1-Base PL 30"x3"x3'-4"x(4) (62-2)
2-Side PLs 21"x1/2"x2'-6" (8) (62-3)
2-" PLs 8"x6"x1/4"x 2'-6" (8) (62-4)
4-L's 8"x6"x1"x1'-1" (8) (62-5)
2-L's 8"x6"x7/16"x 0'-10 1/2" (8) (62-5)
4-STIFFS LS 5"x3"x5/16"x1'-9" (16) (Grind Tobear (62-7)

NOTE (10) SHEET 17.
ADD (2) FLANGE PLATES
(4"X1/2"X1'-0") TO EAST
STIFFENER ANGLE.

NEW FLANGE PLATE
NOTE (10) SHEET 17.

2-INSIDE TOWERS-33T1R
(Continued On Sheet #34)

SEE SHEET 17
FOR LOCATION.

(2) MODIFIED 33P1

GRIND BEVEL IN ADJACENT ANGLE LEGS AND PLATES 33P1. WELD WITH PARTIAL JOINT PENETRATION GROOVE WELD AT VERTICAL AND HORIZONTAL LEGS OF PLATE. ADD PLATE TO BOTH SIDES.
NOTE (13) SHEET 17.

SECTION A-A

VIEW C-C

SECTION B-B
Remainder Same as "A-A"

VIEW D-D

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STRUCTURE P-40-875

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33T1 R/L MEMBER DETAILS (1 OF 2)

SHEET 23 OF 31
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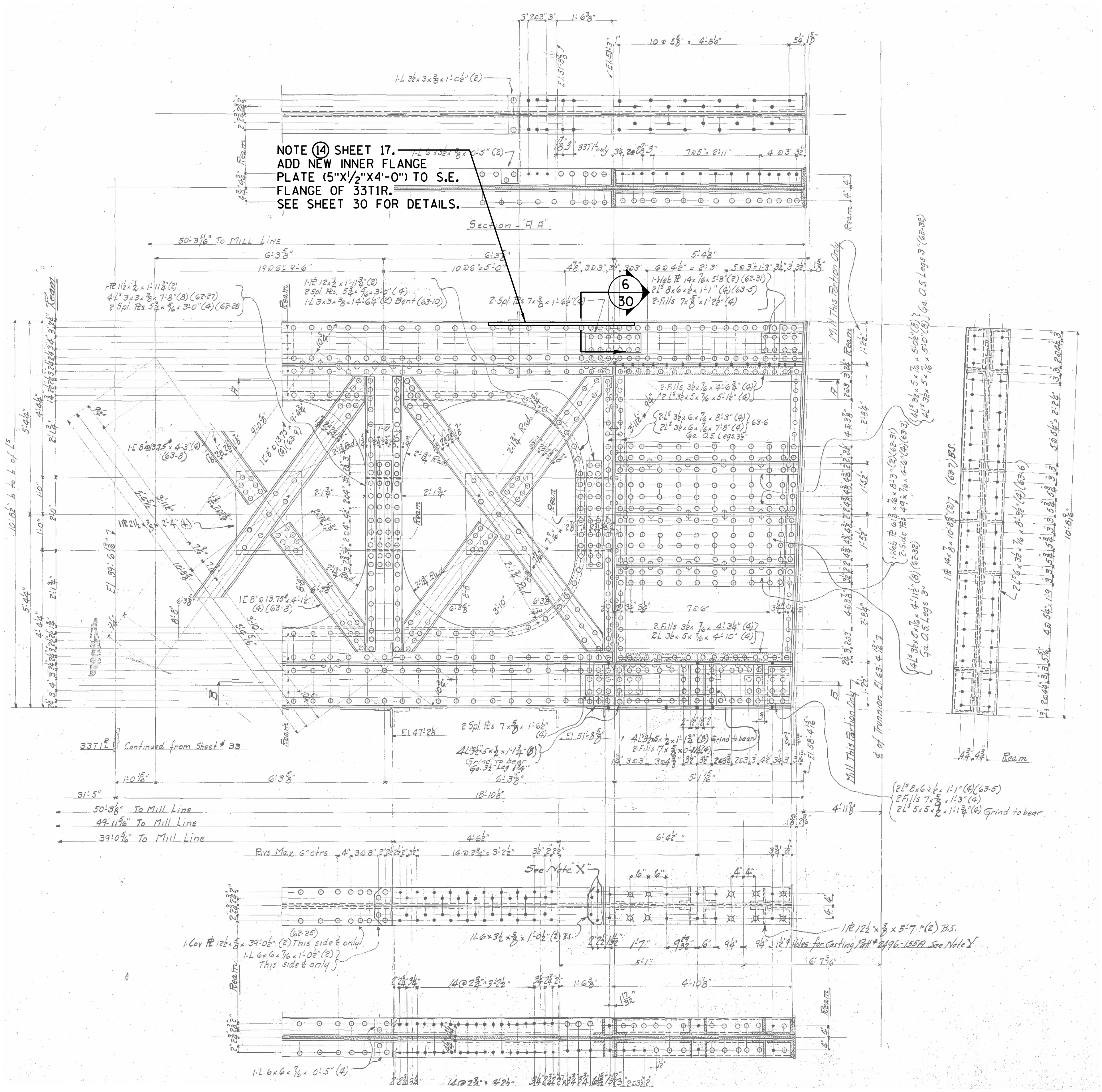
STATE PROJECT NUMBER

2984-12-75



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33T1 R/L MEMBER DETAILS (2 OF 2)

SHEET 24 OF 31

67

STATE PROJECT NUMBER
2984-12-75

NOTE (1) SHEET 16.
ADD NEW FILL PLATE
(4"X1/2"X11 3/4")

Bracing In Bent #8

128B2

138B3

Section A-A

NOTE (9) SHEET 16.

1 Batt Pls 3/8 x 3/8 x 1'-1"
8 Lac Bars 2 1/2 x 3/8 x 1'-3 3/8"

Section A-A

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128B2 AND 138B3 MEMBER DETAILS

SHEET 25 OF 31
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STATE PROJECT NUMBER

2984-12-75

129P1
NOTE ⑩ SHEET 16 (BENT 7)
NOTE ⑮ SHEET 17 (BENT 8)

SECTION AA

129G1 Near Side (1) — 2 sym abt ℄ for 129G1-129G3 and 129B5

129G3 (2) Far Side

62-9½" c.c. End Holes for 129G1

17-3½" c.c. End Holes for 129G3

129G2 (2) Far Side

129G2 Far Side

21-3½" c.c. end holes for 129G2

END DETAILS FOR 129G2
REMAINDER SAME AS 129G1

This Detail for 129G3 remainder same as for 129G1

NOTE:-
ALL OPEN HOLES MARKED "REAM" ARE TO BE SUBPUNCHED & SMALLER THAN CALLED FOR AND REAMED TO SIZE WITH PARTS ASSEMBLED OR WITH A STEEL TEMPLATE 1" THICK. HOLES NOT SO MARKED PUNCH FULL SIZE.

REVISED DATE: 11-26-2024 BY GJR

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DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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129G2R/L AND 129 MEMBER DETAILS

SHEET 26 OF 31
69

FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_26_129G2RL AND 129 MEMBER DETAILS.dgn PLOT DATE : 12/18/2024 1:41:20 PM PLOT BY : grogal PLOT NAME : B0113_2025_26_129G2RL AND 129 MEMBER DETAILS.dgn

STATE PROJECT NUMBER

2984-12-75

NOTE (17) SHEET 17.
ADD NEW INNER FLANGE PLATE (5"X1/2"X4'-0") TO N.W. FLANGE OF 131C1A AND NEW WEB PLATE (7"X1/2"X8'-0") TO WEST FACE OF 131C1A.
SEE SHEET 31 FOR DETAILS.
(BENT 8)

NOTE (11) SHEET 16.
ADD (2) NEW FLANGE PLATES (5"X1/2"X2'-0") TO S.E. AND S.W. FLANGES OF 131C3.
SEE SHEET 31 FOR DETAILS.
(BENT 7)

NOTE (16) SHEET 17.
ADD NEW INNER FLANGE PLATE (5"X1/2"X4'-0") TO N.W. FLANGE OF 131C1 AND (2) NEW WEB PLATES (7"X1/2"X6'-0") TO WEB PLATES OF 131C1.
SEE SHEET 31 FOR DETAILS.
(BENT 8)

4-SUPPORTS-#131S1L
4- " -#131S3L

4-SUPPORTS-#131S2L

2-GIRDERS-#131G1L (ON BENT #8)
8-BRAC. ANGLES-#131B1L

2-COLUMNS-#131C3
2- " -#131C3A
4- " -#131C4L
(ON-BENT-#7)

2-COLUMNS-#131C1
2- " -#131C1A
4- " -#131C2L
(ON-BENT #8)

Note "X":
Shop punch 1 3/8" holes in angle only. Holes in column to be located in field by fitting angle to bear against casting & then later is definitely aligned, then drill and ream for 1 3/8" rivets.

Note "Y":
Locate, drill and ream in field for turned bolts after casting is perfectly aligned.

REVISED DATE: 12-09-2024 BY GJR

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STRUCTURE P-40-875

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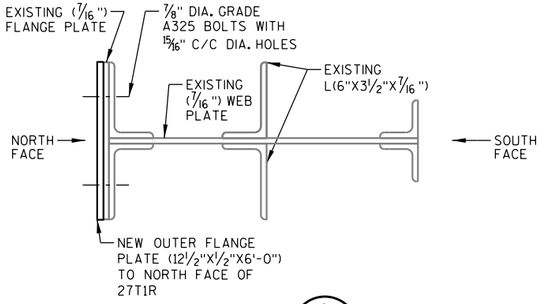
131C3, 131C1 AND 131C1A MEMBER DETAILS

SHEET 27 OF 31
70

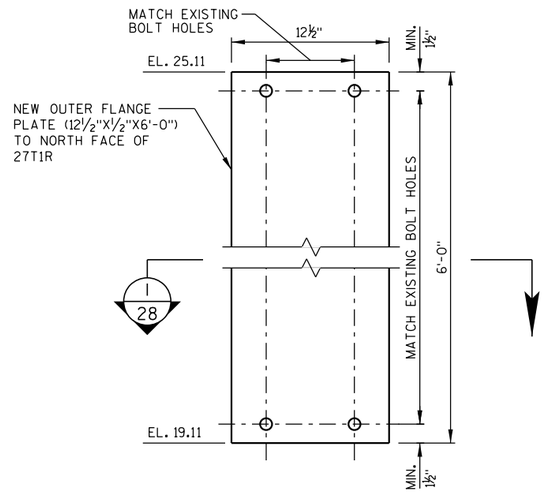
FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_27_131C3, 131C1 AND 131C1A MEMBER DETAILS.dgn PLOT DATE : 12/18/2024 1:47:49 PM PLOT BY : grogal PLOT NAME : B0113_2025_27_131C3, 131C1 AND 131C1A MEMBER DETAILS.dgn

STATE PROJECT NUMBER

2984-12-75



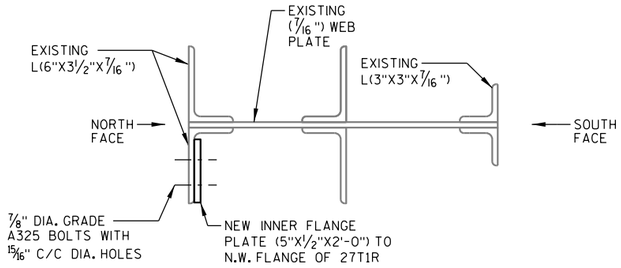
SECTION 1 / 18/28

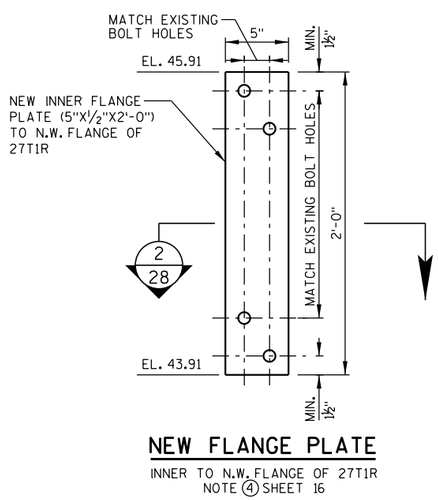


OUTER FLANGE PLATE

TO NORTH FACE OF 27T1R
NOTE (1) SHEET 16

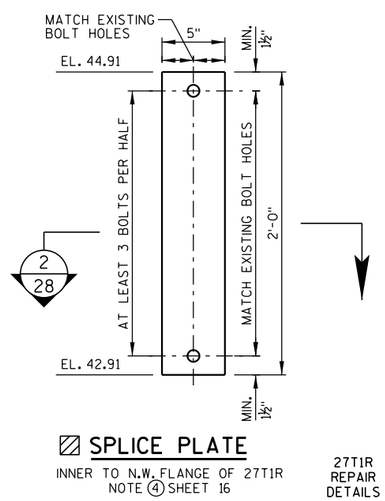
27T1R REPAIR DETAILS





NEW FLANGE PLATE

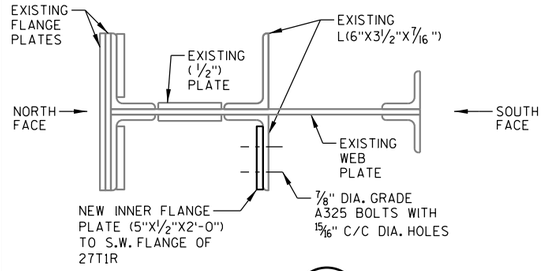
INNER TO N.W. FLANGE OF 27T1R
NOTE (4) SHEET 16



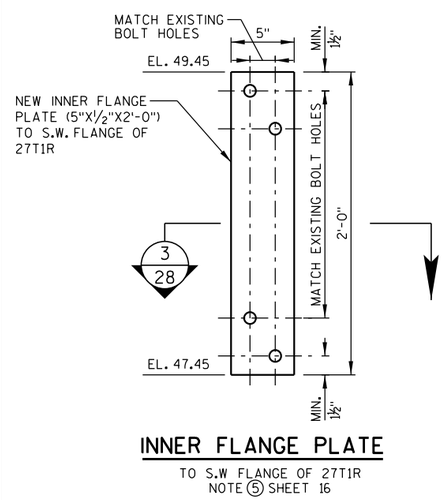
SPLICE PLATE

INNER TO N.W. FLANGE OF 27T1R
NOTE (4) SHEET 16

27T1R REPAIR DETAILS



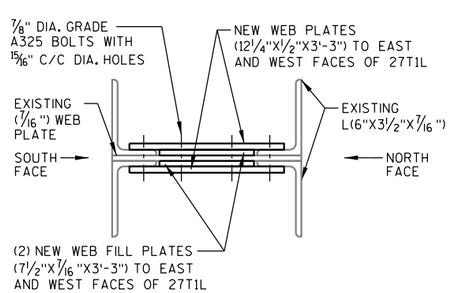
SECTION 3 / 19/28



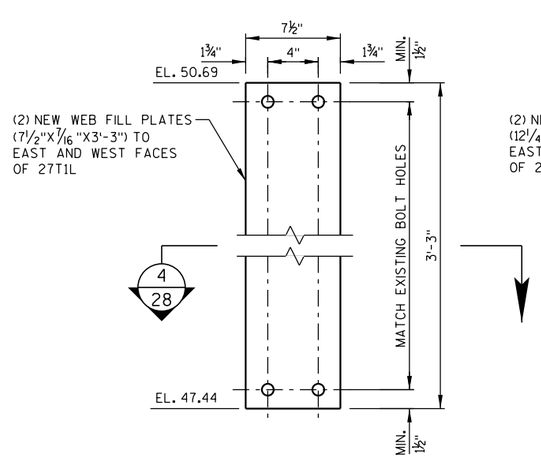
INNER FLANGE PLATE

TO S.W FLANGE OF 27T1R
NOTE (5) SHEET 16

27T1R REPAIR DETAILS

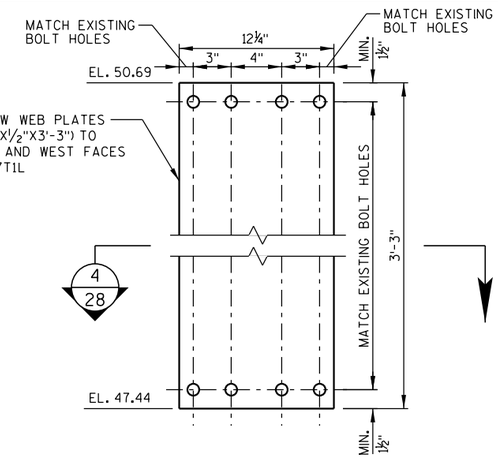


SECTION 4 / 19/28



WEB FILL PLATE

(2) NEW TO EAST AND WEST FACES OF 27T1L
NOTE (6) SHEET 16



WEB PLATE

(2) NEW TO EAST AND WEST FACES OF 27T1L
NOTE (6) SHEET 16

27T1L REPAIR DETAILS

REVISED: 12-17-2024 BY GJR

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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27T1R/L REPAIR DETAILS

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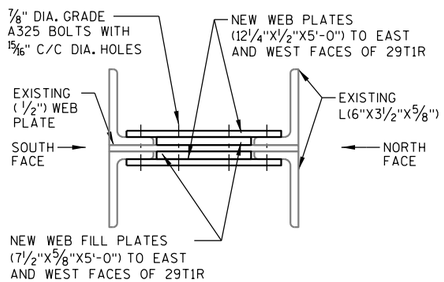
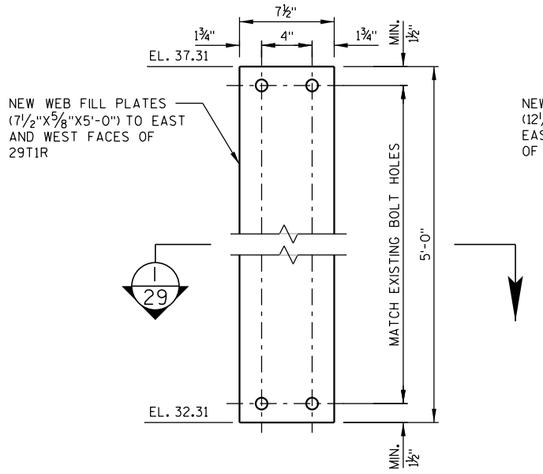
STATE PROJECT NUMBER

2984-12-75

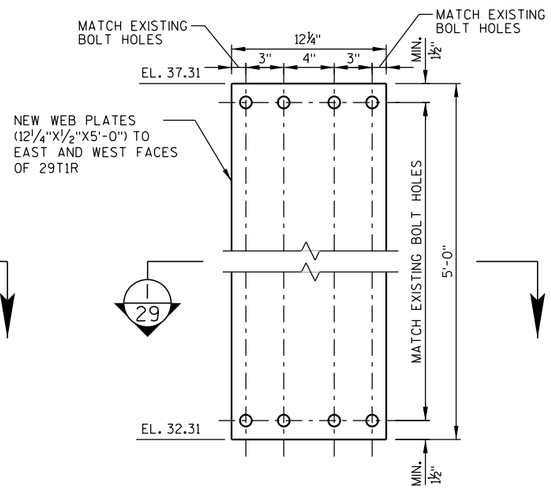


SECTION 1 / 20/29



WEB FILL PLATE

(2) NEW TO EAST AND WEST FACES OF 29T1R
NOTE ⑧ SHEET 16



WEB PLATE

(2) NEW TO EAST AND WEST FACES OF 29T1R
NOTE ⑧ SHEET 16

29T1R REPAIR DETAILS

REVISED: 11-26-2024 BY GJR

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

DRAWN BY GJR | PLANS CK'D. HMD

29T1R REPAIR DETAILS

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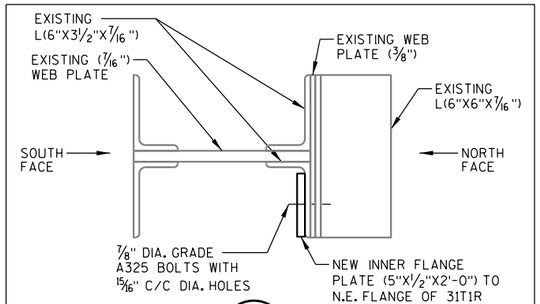
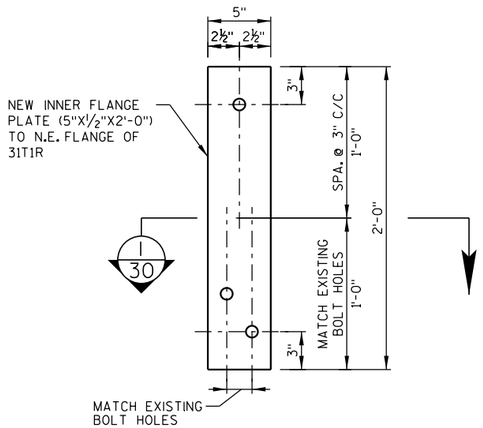
FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_29_29T1R REPAIR DETAILS.dgn
PLOT DATE : 12/17/2024 2:43:05 PM PLOT BY : grogal
PLOT NAME : B0113_2025_29_29T1R REPAIR DETAILS.dgn

STATE PROJECT NUMBER

2984-12-75



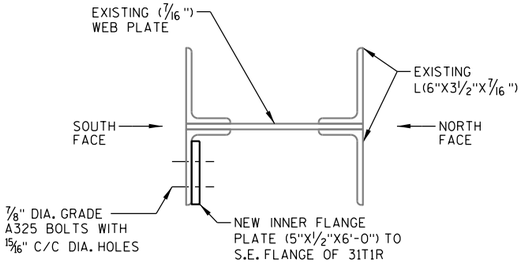
SECTION 1 / 21/30



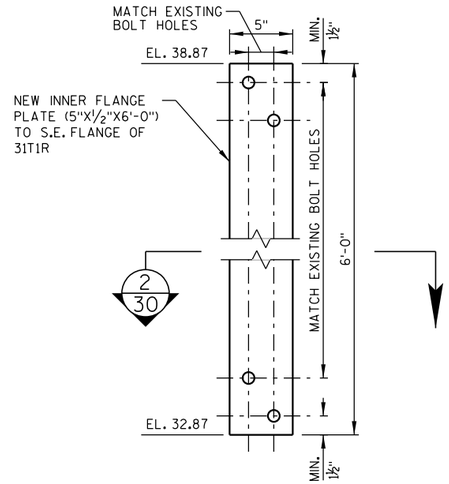
INNER FLANGE PLATE

TO N.E. FLANGE OF 31T1R
NOTE ⑥ SHEET 17

31T1R REPAIR DETAILS



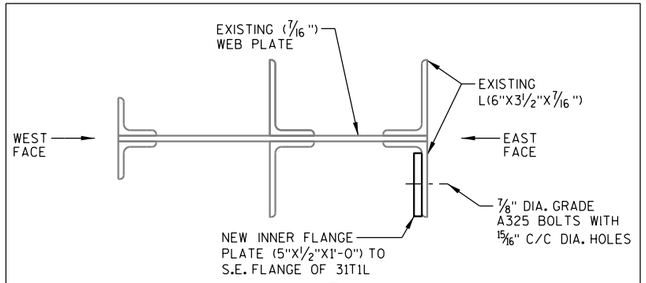
SECTION 2 / 21/30



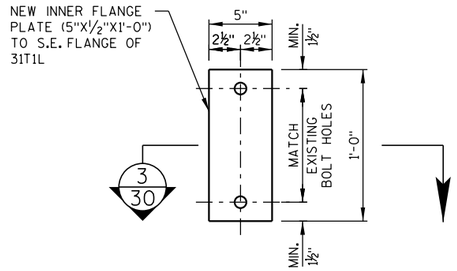
NEW INNER FLANGE PLATE

TO S.E. FLANGE OF 31T1R
NOTE ⑦ SHEET 17

31T1R REPAIR DETAILS



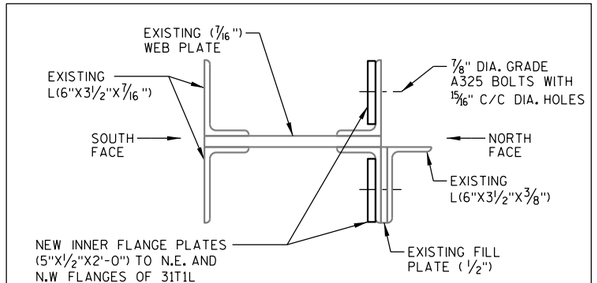
SECTION 3 / 21/30



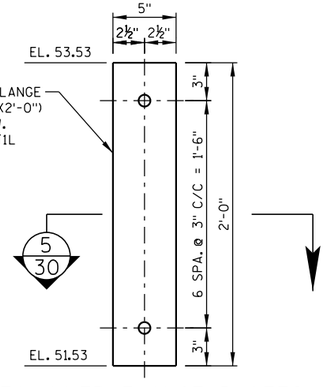
NEW INNER FLANGE PLATE

TO S.E. FLANGE OF 31T1L
NOTE ⑧ SHEET 17

31T1L REPAIR DETAILS



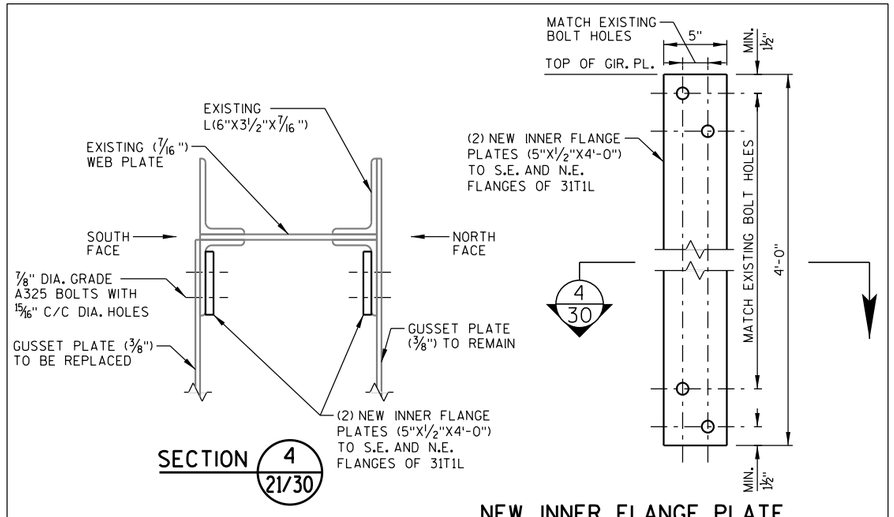
SECTION 5 / 22/30



NEW INNER FLANGE PLATES

(2) PLATES TO N.E. AND N.W FLANGES OF 31T1L
NOTE ⑫ SHEET 17

31T1L REPAIR DETAILS

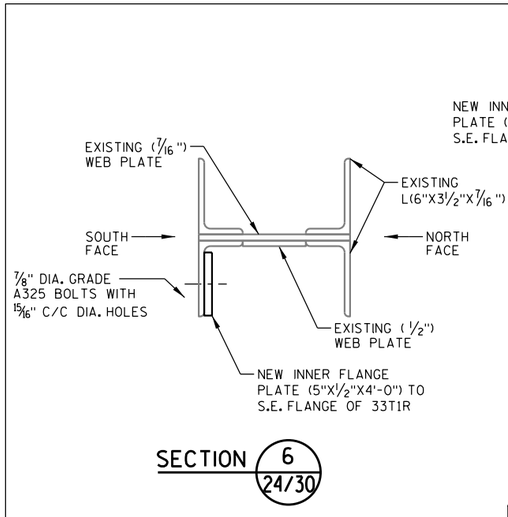


SECTION 4 / 21/30

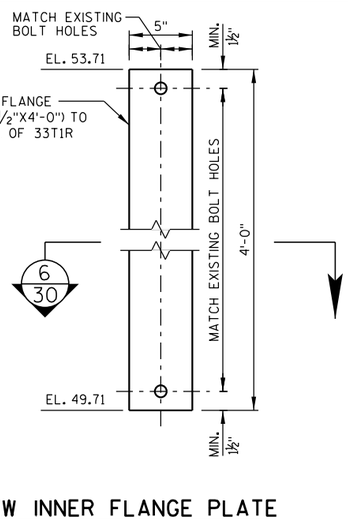
NEW INNER FLANGE PLATE

(2) PLATES TO S.E. AND N.E. FLANGES OF 31T1L
NOTE ⑨ SHEET 17

31T1L REPAIR DETAILS



SECTION 6 / 24/30



NEW INNER FLANGE PLATE

TO S.E. FLANGE OF 33T1R
NOTE ⑭ SHEET 17

33T1R REPAIR DETAILS

REVISED: 12-09-2024 BY GJR

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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31T1R/L AND 33T1R REPAIR DETAILS

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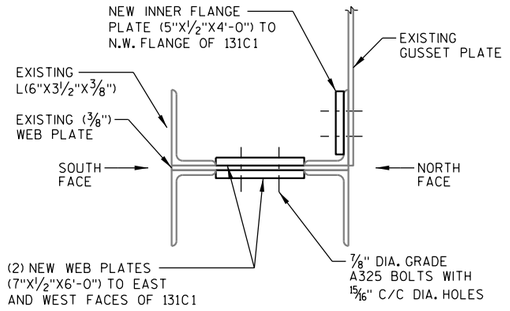
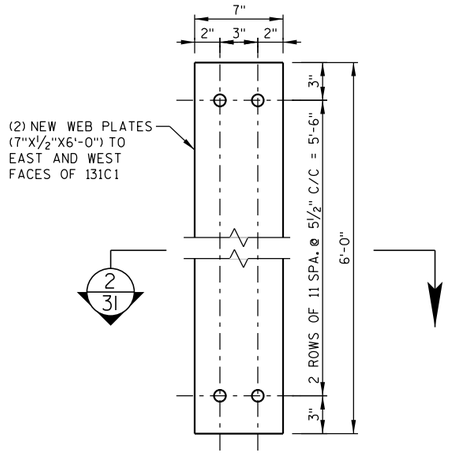
FILE NAME : \\ad\mkedfs\GIS DeptWork\str\b0113\2025 Phase 3\Plans\B0113_2025_30_31T1RL AND 33T1R REPAIR DETAILS.dgn PLOT DATE : 12/17/2024 2:43:06 PM PLOT BY : grogal PLOT NAME : B0113_2025_30_31T1RL AND 33T1R REPAIR DETAILS.dgn

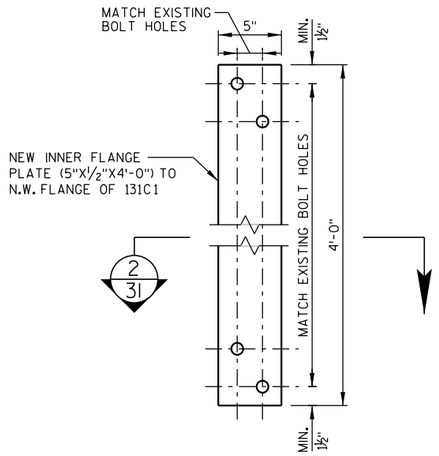


SECTION 2 / 27/31



WEB PLATE

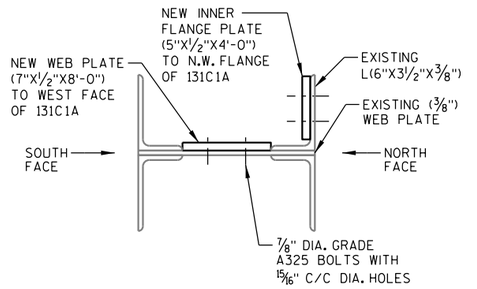
(2) PLATES TO EAST AND WEST FACES OF 131C1
NOTE (16) SHEET 17



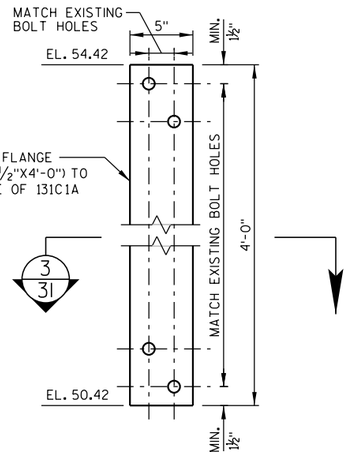
INNER FLANGE PLATE

TO N.W. FLANGE OF 131C1
NOTE (16) SHEET 17

131C1 REPAIR DETAILS



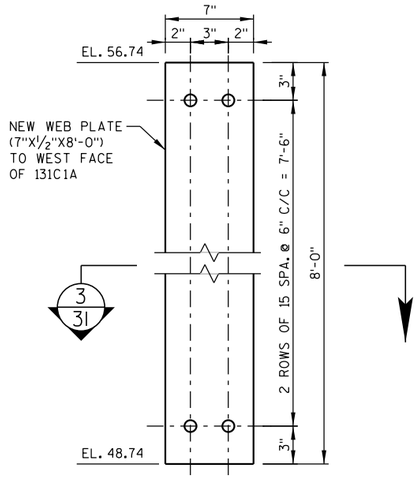
SECTION 3 / 27/31



NEW INNER FLANGE PLATE

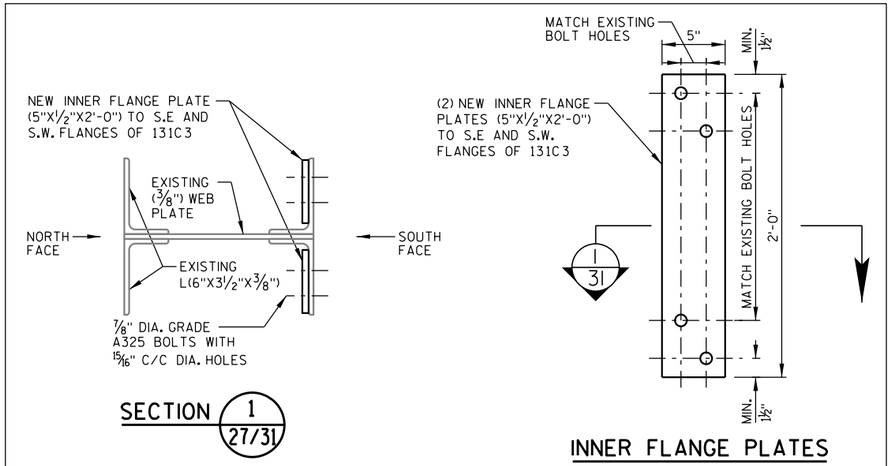
TO N.W. FLANGE OF 131C1A
NOTE (17) SHEET 17

131C1A REPAIR DETAILS



NEW WEB PLATE

TO WEST FACE OF 131C1A
NOTE (17) SHEET 17



SECTION 1 / 27/31

INNER FLANGE PLATES

TO S.E AND S.W FLANGES OF 131C3
NOTE (11) SHEET 16

131C3 REPAIR DETAILS

STATE PROJECT NUMBER

2984-12-75

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-875

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131C3, 131C1 AND 131C1A REPAIR DETAILS

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Notes

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