MAD

PROJECT ID: 3042-01-60

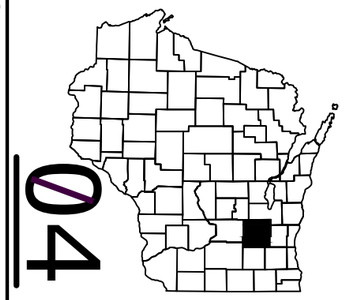
WITH: N/A

COUNTY: DODGE

DECEMBER 2026
ORDER OF SHEETS

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

TOTAL SHEETS = 74



N

DESIGN DESIGNATION 3042-01-30

A.A.D.T.	2026	=	5,220
A.A.D.T.	2046	=	5,590
D.H.V.		=	770
D.D.		=	60/40
T.		=	15.6%
DESIGN SPEED		=	60 MPH
ESALS		=	2,000,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

LOWELL - HARTFORD

LEVEL VALLEY & CTH R BRS B-14-61/62

STH 60
DODGE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3042-01-60		

STATE PROJECT NUMBER
3042-01-60

EQUATION STA 225+47.00 BK= STA 225+48.17 AHD

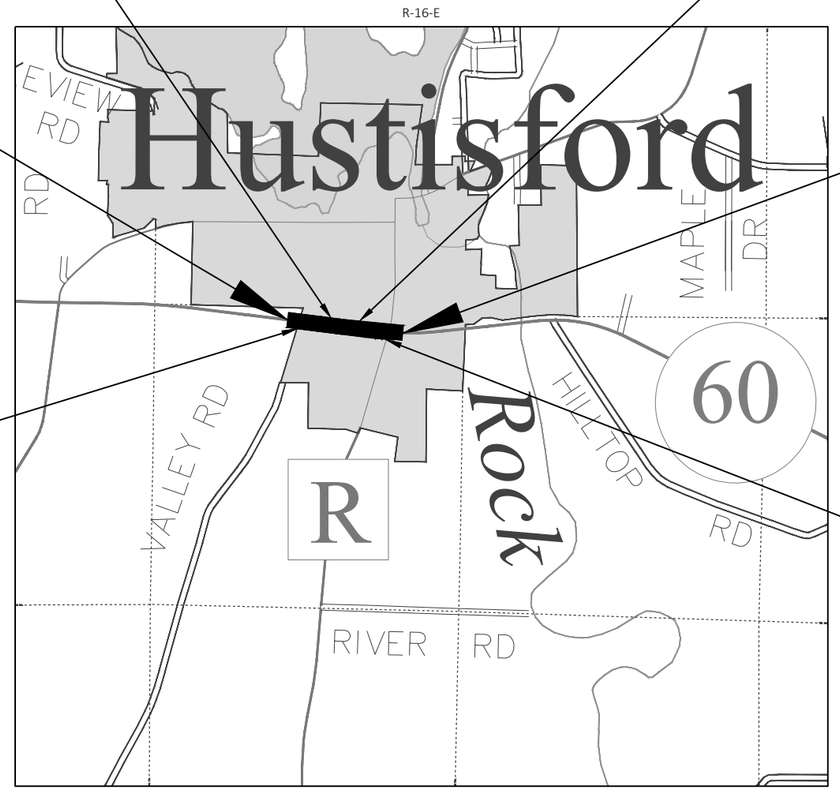
NET EXCEPTION TO CL LENGTH
STA 220+19.27 - STA 233+63.71

BEGIN PROJECT
STA 218+08.89
X=908624.21
Y=681284.49

END PROJECT
STA 235+71.75

STRUCTURE B-14-61
STA 218+50.74 - STA 219+77.45

STRUCTURE B-14-62
STA 234+06.17 - STA 235+28.88



Hustisford

LAYOUT
SCALE 0 0.5 MI

TOTAL NET LENGTH OF CENTERLINE = 0.079 MI

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

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

ORIGINAL PLANS PREPARED BY

JT ENGINEERING

WISCONSIN
BRADLEY R. GROH
E-41411
MADISON
WI
PROFESSIONAL ENGINEER

DATE: 7/15/2026 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	JT ENGINEERING, INC
Designer	BRADLEY R. GROH, P.E.
Project Manager	MICHAEL RAMPETSREITER, P.E.
Regional Examiner	SW REGION
Regional Supervisor	CRAIG HARDY, P.E.

APPROVED FOR THE DEPARTMENT

DATE: _____

Mike Rampetsreiter (Signature)

Digitally signed by Mike Rampetsreiter
DN: C=US, E=michael.rampetsreiter@dot.wi.gov, OU=Director, Bureau of Technical Services (BTS), CN=Mike Rampetsreiter
Location: DT93-SWR
Reason: I am approving this document
Contact Info: 1.608.246.7917
Date: 2026.07.15 09:44:49-05'00'

E

UTILITY CONTACTS

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SUN PRAIRIE, WI 53590
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HUSTISFORD, WI 53034
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TTESSMANN@HUSTISFORD.COM

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HUSTISFORD, WI 53034
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TTESSMANN@HUSTISFORD.COM

JACOB HULBERT
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JT ENGINEERING, INC.
281 NETHERWOOD ROAD, SUITE 1
OREGON, WI 53575
PHONE: (608) 204-0909
EMAIL: BRADG@JT-ENGINEERING.COM

WISCONSIN DNR LIAISON

ERIC HEGGELUND
SOUTH CENTRAL REGION
3911 FISH HATCHERY RD
MADISON, WI 53711
PHONE: (608) 228-7927
EMAIL: ERIC.HEGGELUND@WISCONSIN.GOV

SHEET LIST:
TITLE
GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
DETOUR
MISC QUANTITIES
PLAN & PROFILE
STRUCTURES

GENERAL NOTES

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

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE, SUBBASE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

PRIOR TO PLACEMENT OF BEAM GUARD THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

PEDESTRIAN DETOUR SHOULD FOLLOW STANDARD DETAIL "TRAFFIC CONTROL PEDESTRIAN ACCOMMODATIONS."

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

TEMPORARY AUDIBLE MESSAGING DEVICES SHALL BE PLACED IN ACCORDANCE WITH STANDARD DETAIL "TRAFFIC CONTROL PEDESTRIAN ACCOMMODATIONS." THE DEVICE SHALL SAY "ATTENTION PEDESTRIANS. YOU ARE AT THE INTERSECTION OF (STATE THE INTERSECTION). THE SIDEWALK BENEATH THE BRIDGE ALONG HIGHWAY 60 ON (HUSTIS ST/LAKE ST) IS CLOSED. FOR ACCESS ACROSS HIGHWAY 60, USE GRIFFITH ST TO TRAVEL TO (HUSTIS ST/LAKE ST)."

2

RUNOFF COEFFICIENT TABLE

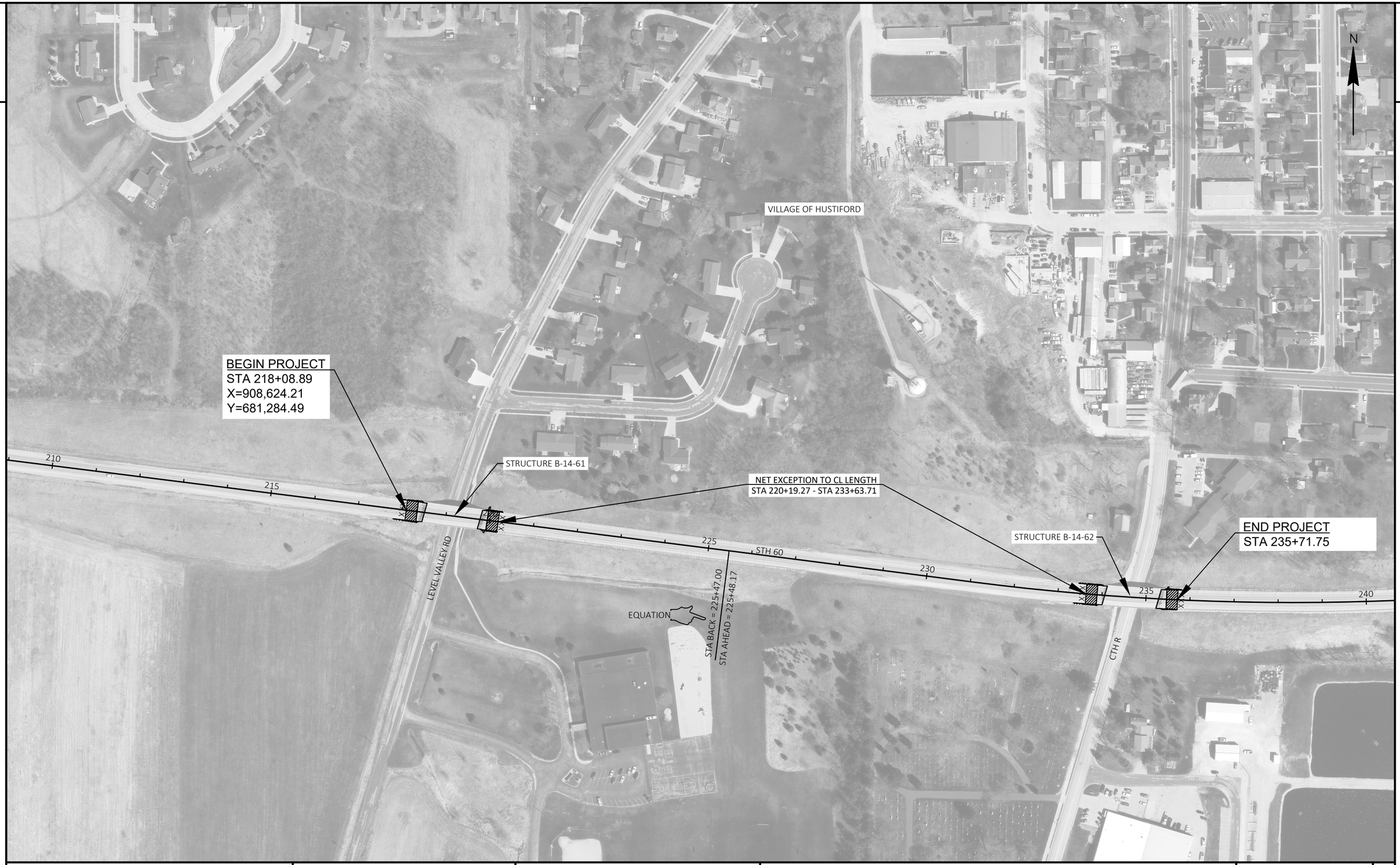
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33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

TOTAL PROJECT AREA = 2.872 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = .583 ACRES

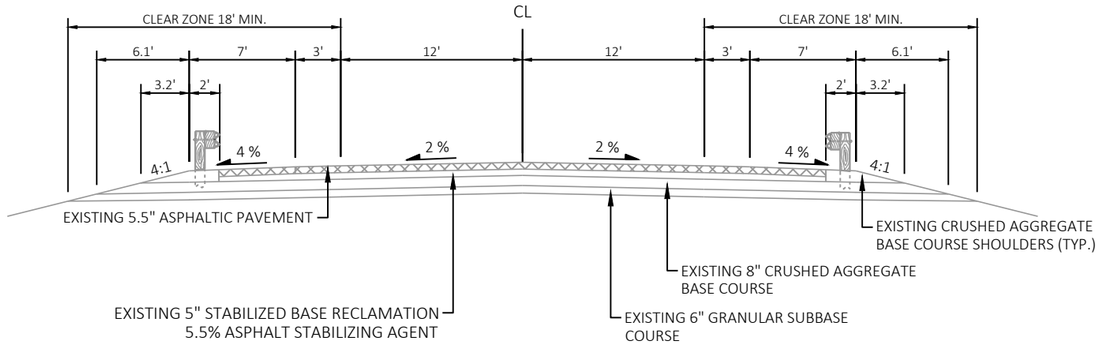
DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

FILE NAME : X:\PROJECTS\DODGE\230130 - 3042-01-30 STH 60 LEVEL VALLEY RD AND CTH R STRUCTURES\DESIGN\C3D\SHEETSPLAN\020101-GN.DWG
LAYOUT NAME - 01
PLOT DATE : 7/10/2026 2:31 PM PLOT BY : MAYA VAVRICKA PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

2

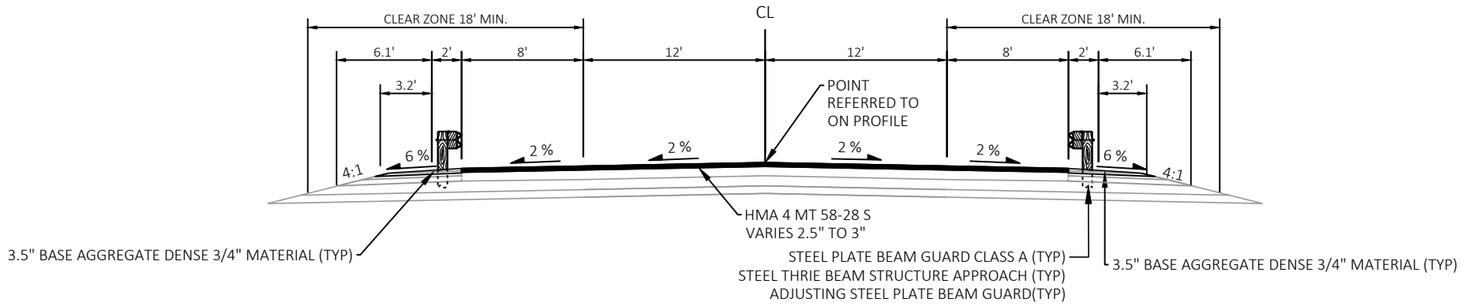


PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	PROJECT OVERVIEW	SHEET 3	E



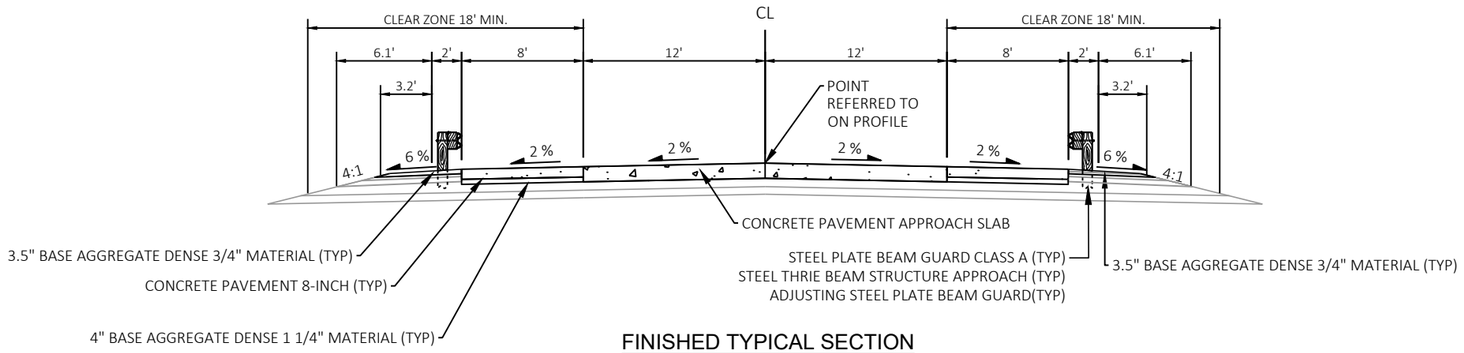
EXISTING TYPICAL SECTION

STA 218+08.98 - 218+50.81
STA 219+77.45 - 220+19.08
STA 233+25.00 - 234+06.17
STA 235+28.88 - 235+71.75



FINISHED TYPICAL SECTION

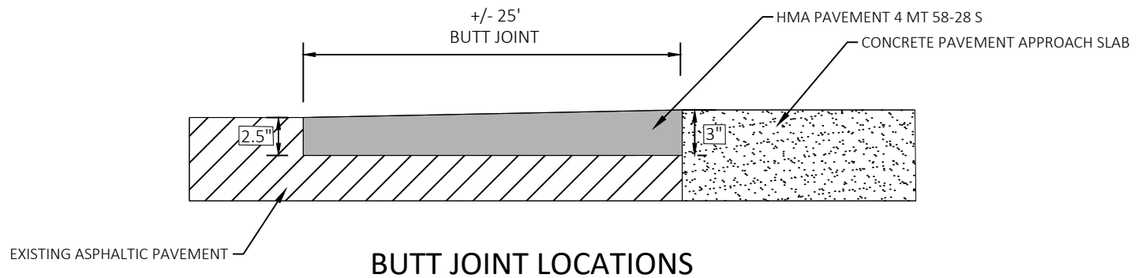
STA 218+08.98 - 218+35.10
STA 219+94.07 - 220+19.08
STA 233+63.71 - 233+88.72
STA 235+45.60 - 235+71.75



FINISHED TYPICAL SECTION

STA 218+35.10 - 218+50.74
STA 219+77.45 - 219+94.07
STA 233+88.72 - 234+06.17
STA 235+28.88 - 235+46.75

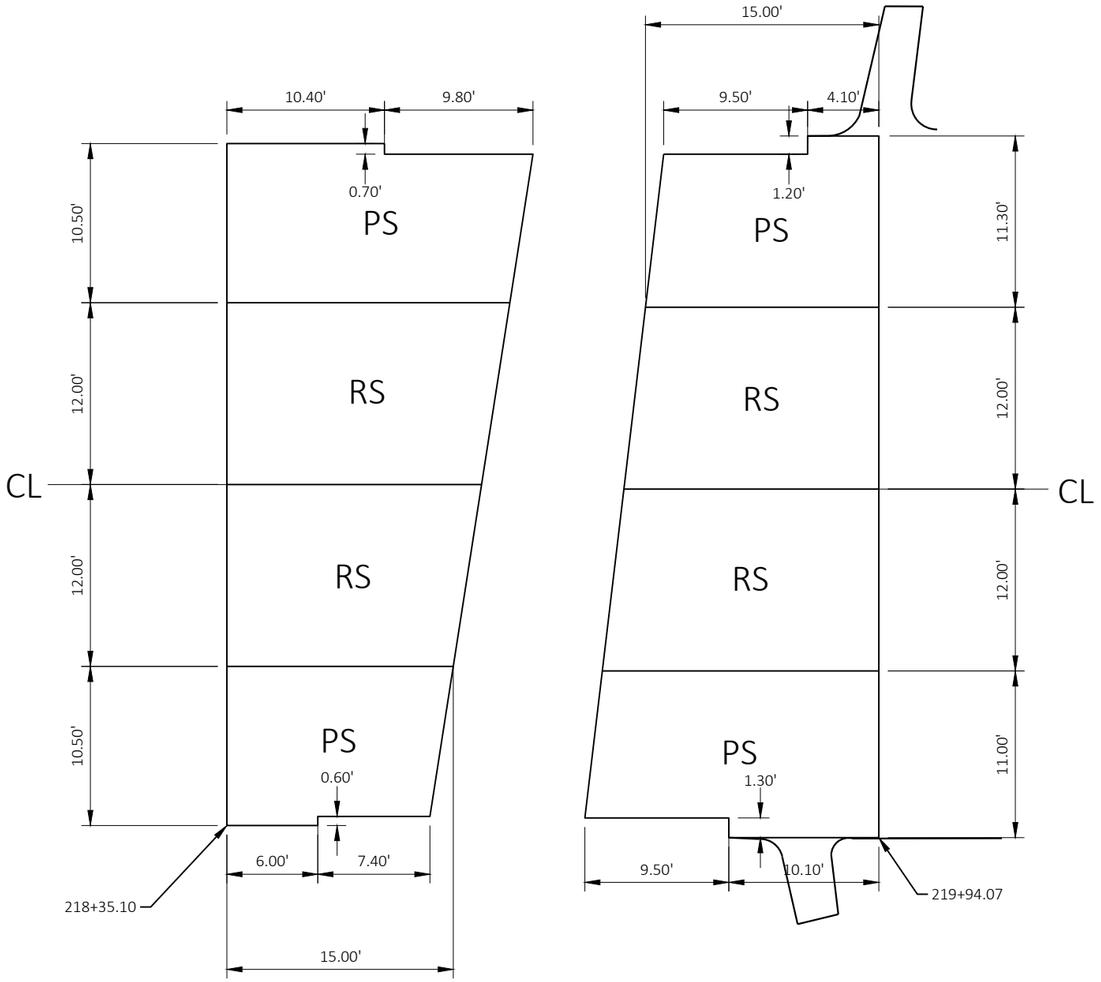
PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	TYPICAL SECTIONS	SHEET 4	E



BUTT JOINT LOCATIONS

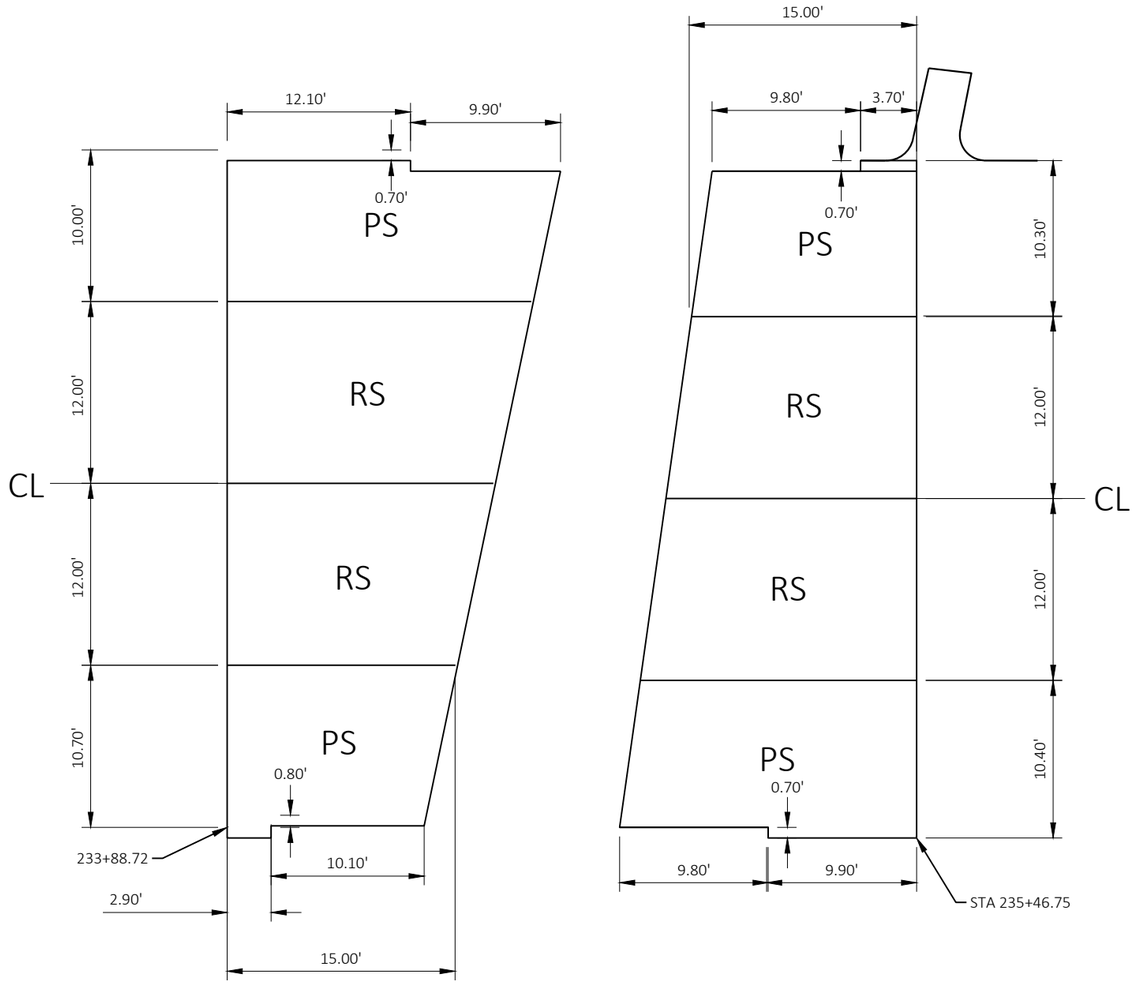
STA 218+08.9 - 218+33.9
STA 219+94.3 - 220+19.3
STA 233+63.7 - 233+88.7
STA 235+45.6 - 235+70.6

2



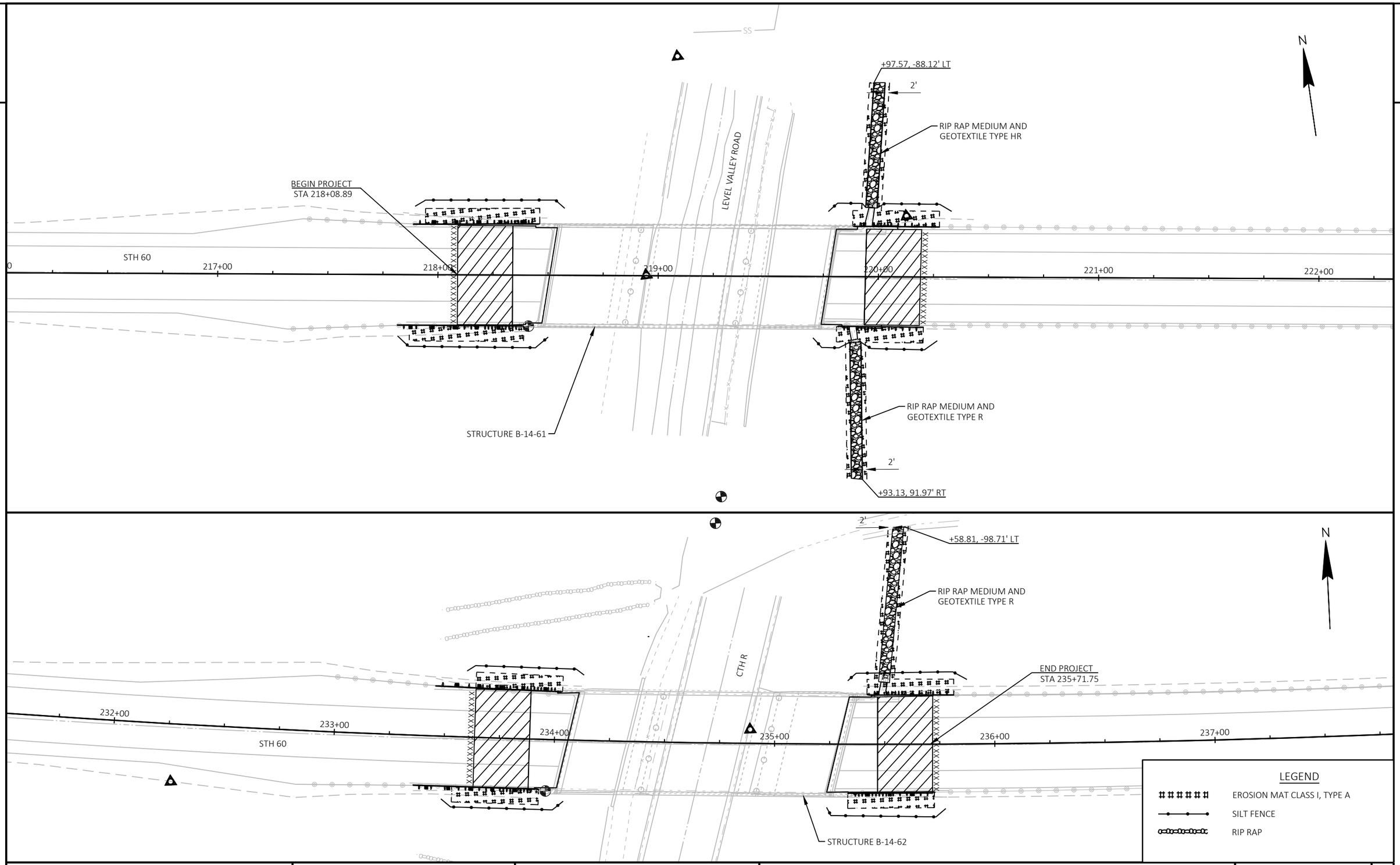
RS = 12" REINFORCED CONCRETE SLAB
PS = 8" PAVED CONCRETE SHOULDER

CONCRETE PAVEMENT APPROACH SLABS
B-14-61



RS = 12" REINFORCED CONCRETE SLAB
PS = 8" PAVED CONCRETE SHOULDER

CONCRETE PAVEMENT APPROACH SLABS
B-14-62

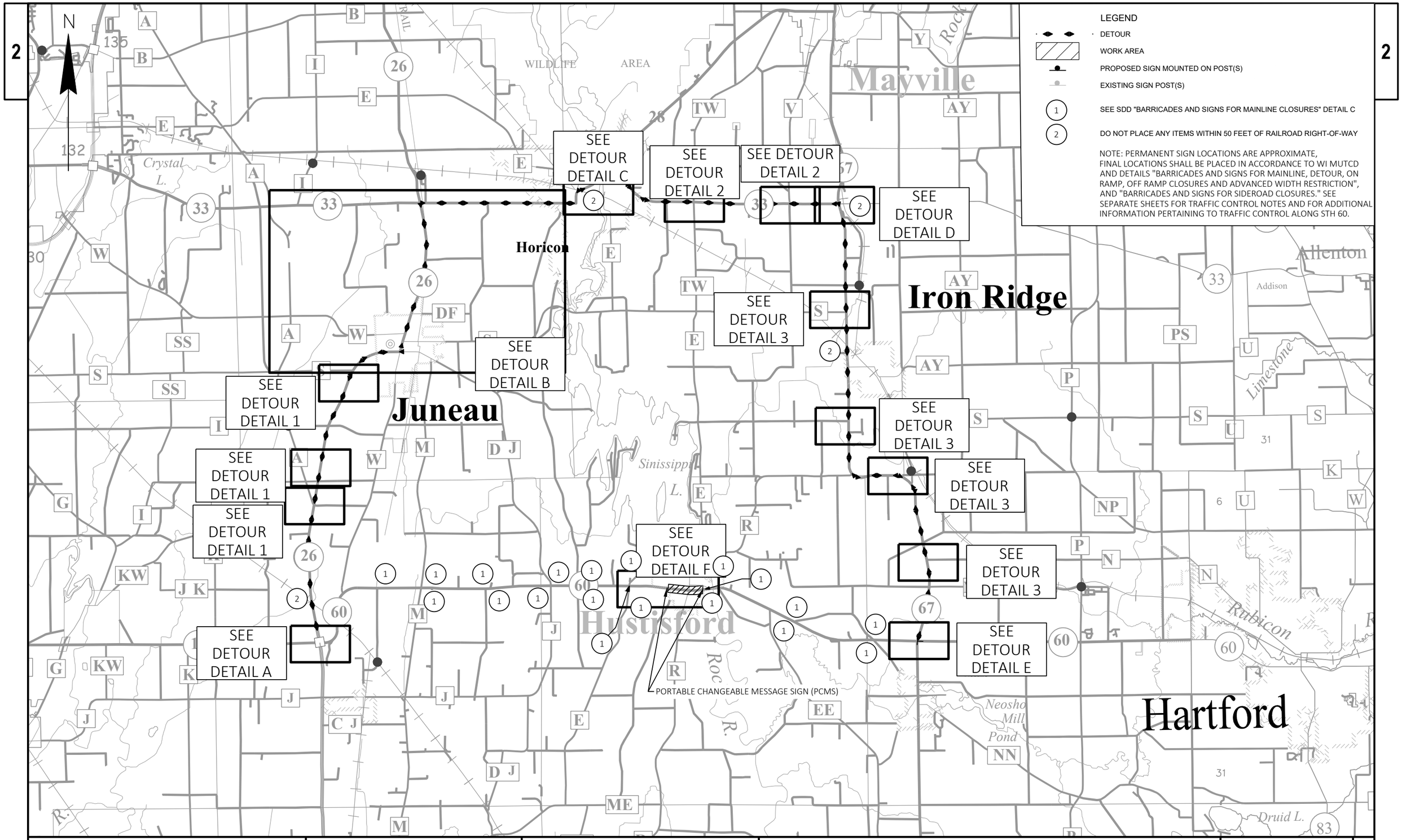


PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	EROSION CONTROL	SHEET 7	E

FILE NAME : X:\PROJECTS\DODGE\230130 - 3042-01-30 STH 60 LEVEL VALLEY RD AND CTH R STRUCTURES\DESIGN\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 01

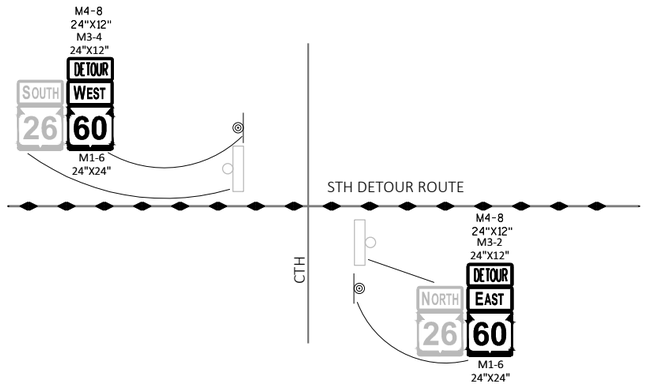
PLOT DATE : 10/20/2026 11:15 AM PLOT BY : JOHNATHAN HOPP PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

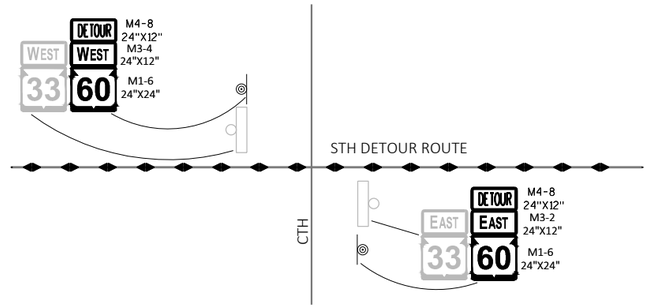


PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	DETOUR OVERVIEW	SHEET 8	E

FILE NAME : X:\PROJECTS\DODGE\230130 - 3042-01-30 STH 60 LEVEL VALLEY RD AND CTH R STRUCTURES\DESIGN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - OVERVIEW
PLOT DATE : 10/21/2026 1:45 PM PLOT BY : JOHNATHAN HOPP PLOT NAME : PLOT SCALE : CUSTOM



DETAIL 1



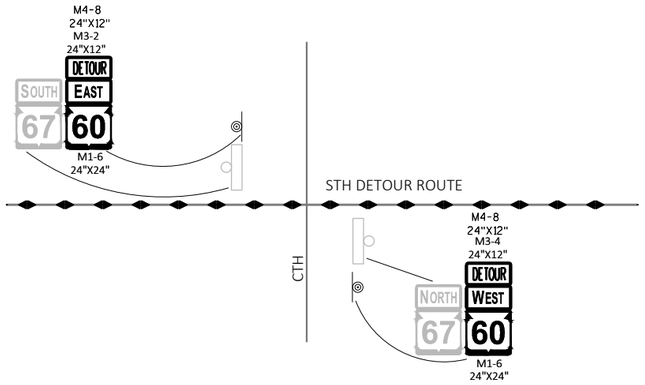
DETAIL 2

LEGEND

- DETOUR
- WORK AREA
- TC SIGN ON POST(S)
- EXISTING PERMANENT SIGN ON POST(S)
- TC BARRICADE TYPE III WITH TC SIGN
- Ⓐ TC WARNING LIGHT TYPE A

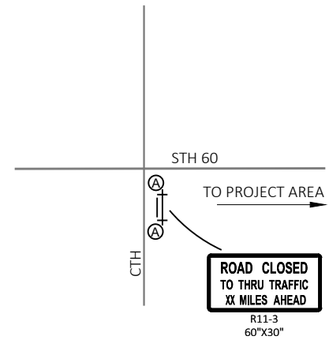
NOTE: PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO WI MUTCD AND DETAILS "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION", AND "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES." SEE SEPARATE SHEETS FOR TRAFFIC CONTROL NOTES AND FOR ADDITIONAL INFORMATION PERTAINING TO TRAFFIC CONTROL ALONG STH 60.

2



DETAIL 3

HWY	"XX"
CTH DJ	1 1/2
CTH M	4
CTH W	5
CTH K	8
CTH K	9
CTH KW	10
CTH G	11
CTH J	12
CTH EE	1 1/4
CTH P	7



DETAIL 7

PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	GENERIC INTERSECTION DETAILS	SHEET 9	E

2

2

SEE SDD "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION" DETAIL E

60

LEGEND

- DETOUR
- WORK AREA
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING SIGN POST(S)
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TYPE III BARRICADE W/ SIGN

NOTE: PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO WI MUTCD AND DETAILS "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION", AND "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES." SEE SEPARATE SHEETS FOR TRAFFIC CONTROL NOTES.

N

STH 26

STH 60

STH 16 - STH 60

STH 16 - STH 26

END DETOUR M4-8A 24"X18"

COVERING SIGNS TYPE II

EXIT 52 — Columbus / Hustisford — 1/2 MILE

M4-8 36"X18" / M3-2 36"X18" / M1-6 36"X36" — DETOUR EAST 60 NEXT 26 MILES — WO57-51 48"X24"

NORTH 26

ROAD CLOSED TO THRU TRAFFIC 7 MILES AHEAD — R11-3 60"X30"

Hustisford / Columbus

M3-2 24"X12" / M1-6 24"X24" — EAST 60 — DETOUR AHEAD — W20-2A

Columbus / Hustisford

M4-8 24"X12" — DETOUR — NORTH EAST EAST SOUTH 26 60 16 26 — M06-1 30"X30"

EAST SOUTH 16 26

M4-8 24"X12" — DETOUR — NORTH EAST 26 60 — M05-1L 21"X21"

Hustisford / Juneau

M4-8 24"X12" / M3-2 24"X12" / M1-6 24"X24" — DETOUR EAST 60 — NORTH 26 — M06-1 21"X21"

M4-8 36"X18" / M3-2 36"x18" / M1-6 36"X36" — DETOUR EAST 60 — M06-1 30"X30"

500'

250'

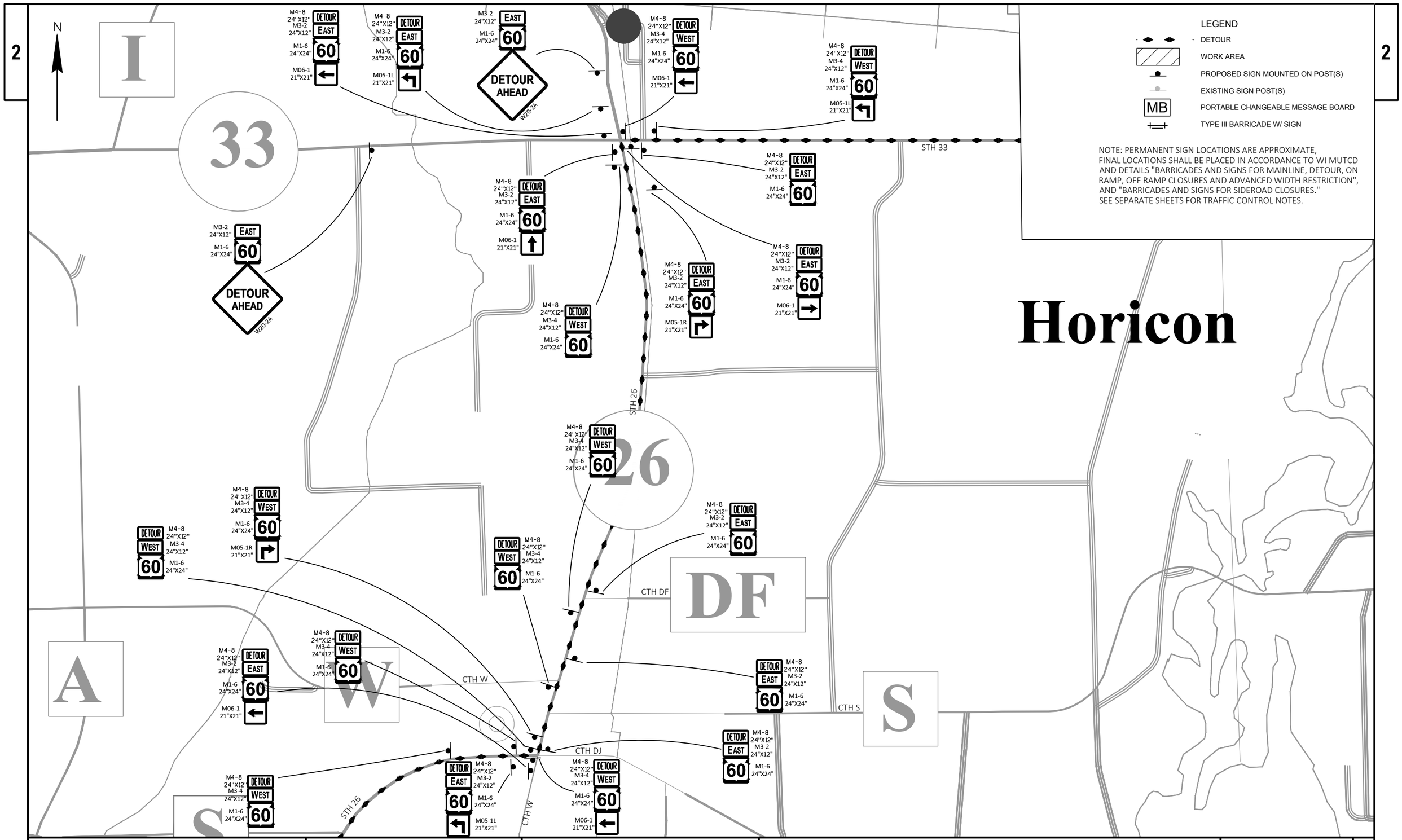
M3-2 36"X18" / M1-6 36"X36" — EAST 60 — DETOUR AHEAD — W20-2A

PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	DETOUR DETAIL A	SHEET 10	E

FILE NAME : X:\PROJECTS\DODGE\230130 - 3042-01-30 STH 60 LEVEL VALLEY RD AND CTH R STRUCTURES\DESIGN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - DETAIL A

PLOT DATE : 7/15/2026 5:12 PM PLOT BY : JOHNATHAN HOPP PLOT NAME : PLOT SCALE : 1 IN : 1000FT

WISDOT/CADDS SHEET 42



PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	DETOUR DETAIL B	SHEET 11	E

FILE NAME : X:\PROJECTS\DODGE\230130 - 3042-01-30 STH 60 LEVEL VALLEY RD AND CTH R STRUCTURES\DESIGN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - DETAIL B

PLOT DATE : 7/15/2026 5:12 PM PLOT BY : JOHNATHAN HOPP PLOT NAME : PLOT SCALE : 1 IN : 2000FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- DETOUR
- WORK AREA
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING SIGN POST(S)
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TYPE III BARRICADE W/ SIGN

NOTE: PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO WI MUTCD AND DETAILS "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION", AND "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES." SEE SEPARATE SHEETS FOR TRAFFIC CONTROL NOTES.

N

CTH E

STH 33

STH 28

CTH E

BAND TO LIGHT POLE

BAND TO LIGHT POLE

M4-8 24"X12" DETOUR WEST
M3-4 24"X12"
M1-6 24"X24" 60
M06-1 21"X21"

M4-8 24"X12" DETOUR WEST
M3-4 24"X12"
M1-6 24"X24" 60
M05-1L 21"X21"

M4-8 24"X12" DETOUR WEST
M3-4 24"X12"
M1-6 24"X24" 60
M05-1R 21"X21"

M4-8 24"X12" DETOUR EAST
M3-2 24"X12"
M1-6 24"X24" 60
M06-1 21"X21"

M4-8 24"X12" DETOUR EAST
M3-2 24"X12"
M1-6 24"X24" 60
M05-1R 21"X21"

M4-8 24"X12" DETOUR EAST
M3-2 24"X12"
M1-6 24"X24" 60

M4-8 24"X12" DETOUR EAST
M3-2 24"X12"
M1-6 24"X24" 60
M06-1 21"X21"

M4-8 24"X12" DETOUR EAST
M3-2 24"X12"
M1-6 24"X24" 60

M4-8 24"X12" DETOUR WEST
M3-4 24"X12"
M1-6 24"X24" 60
M06-1 21"X21"

M4-8 24"X12" DETOUR WEST
M3-4 24"X12"
M1-6 24"X24" 60

M4-8 24"X12" DETOUR WEST
M3-4 24"X12"
M1-6 24"X24" 60

M4-8 24"X12" DETOUR EAST
M3-2 24"X12"
M1-6 24"X24" 60
M05-1L 21"X21"

M4-8 24"X12" DETOUR EAST
M3-2 24"X12"
M1-6 24"X24" 60
M06-1 21"X21"

M4-8 24"X12" DETOUR EAST
M3-2 24"X12"
M1-6 24"X24" 60

PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	DETOUR DETAIL C	SHEET 12	E

FILE NAME : X:\PROJECTS\DODGE\230130 - 3042-01-30 STH 60 LEVEL VALLEY RD AND CTH R STRUCTURES\DESIGN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - DETAIL C

PLOT DATE : 7/15/2026 5:12 PM PLOT BY : JOHNATHAN HOPP PLOT NAME : PLOT SCALE : 1 IN : 1000FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- DETOUR
- WORK AREA
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING SIGN POST(S)
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TYPE III BARRICADE W/ SIGN

NOTE: PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO WI MUTCD AND DETAILS "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION", AND "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES." SEE SEPARATE SHEETS FOR TRAFFIC CONTROL NOTES.

CONSTRUCTION FOR THIS CONTRACT IS ANTICIPATED TO BE CONCURRENT WITH OTHER CONTRACTS IN THE VICINITY OF THIS PROJECT AREA: PROJECT 3020-00-89, STH 28, HORICON – KEWASKUM, E BR ROCK R BRIDGE B-14-067, DODGE COUNTY. THIS PROJECT IS ANTICIPATED TO BE CONSTRUCTED IN THE SUMMER OF 2027. TRAFFIC CONTROL DETOUR SIGNING COORDINATION WILL BE REQUIRED WITH THIS PROJECT.

N

67

33

STH 33

STH 67

M1-6 24"X24" 60 DETOUR AHEAD W20-2A

M4-8 24"X12" DETOUR EAST / M3-2 24"X12" / M1-6 24"X24" 60 / M06-1 21"X21"

EAST SOUTH WEST 33 67 33

M4-8 24"X12" DETOUR WEST / M3-2 24"X12" / M1-6 24"X24" 60 / M05-1R 21"X21"

M4-8 24"X12" DETOUR WEST / M3-4 24"X12" / M1-6 24"X24" 60 / M06-1 21"X21"

SOUTH WEST NORTH 67 33 67

M4-8 24"X12" DETOUR WEST / M3-4 24"X12" / M1-6 24"X24" 60 / M06-1 21"X21"

M4-8 24"X12" DETOUR WEST / M3-4 24"X12" / M1-6 24"X24" 60 NEXT 17 MILES WO57-51 48"X24"

NORTH WEST SOUTH 67 33 67

M4-8 24"X12" DETOUR EAST / M3-2 24"X12" / M1-6 24"X24" 60 / M05-1R 21"X21"

M4-8 24"X12" DETOUR EAST / M3-2 24"X12" / M1-6 24"X24" 60 / M06-1 21"X21"

M4-8 24"X12" DETOUR EAST / M3-2 24"X12" / M1-6 24"X24" 60

WEST M3-4 24"X12" / 60 M1-6 24"X24" DETOUR AHEAD W20-2A

PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	DETOUR DETAIL D	SHEET 13	E

FILE NAME : X:\PROJECTS\DODGE\230130 - 3042-01-30 STH 60 LEVEL VALLEY RD AND CTH R STRUCTURES\DESIGN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - DETAIL D

PLOT DATE : 7/15/2026 5:12 PM PLOT BY : JOHNATHAN HOPP PLOT NAME : PLOT SCALE : 1 IN : 1000FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- DETOUR
- WORK AREA
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING SIGN POST(S)
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TYPE III BARRICADE W/ SIGN

NOTE: PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO WI MUTCD AND DETAILS "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION", AND "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES." SEE SEPARATE SHEETS FOR TRAFFIC CONTROL NOTES.

N

67

DETOUR M4-8 24"X12"
EAST SOUTH WEST
60 67 60
M06-1 21"X21"

Neosho
Hartford
Hustisford

DETOUR M4-8 24"X12"
EAST WEST
60 60
M06-1 21"X21"

ROAD CLOSED TO THRU TRAFFIC 4 MILES AHEAD
R11-3 60"X30"

DETOUR M4-8 24"X12"
SOUTH WEST NORTH
67 60 67
M05-1R 21"X21"

M1-6 24"X24" 60
DETOUR AHEAD
W20-2A

DETOUR M4-8 24"X12"
WEST M3-4 24"X12"
SOUTH NORTH
67 67 60
M1-6 24"X24"
M06-1 21"X21"

M4-8 24"X12" DETOUR
M3-4 24"X12" WEST
M1-6 24"X24" 60
M06-1 21"X21"
WEST NORTH EAST SOUTH
67 60 67

Hartford
Mayville
Neosho

M4-8 24"X12" DETOUR
M3-4 24"X12" WEST
M1-6 24"X24" 60
M06-1 21"X21"
WEST NORTH SOUTH
67 67

Mayville
Hustisford
Hartford

M3-4 24"X12" WEST
M1-6 24"X24" 60
DETOUR AHEAD
W20-2A

M4-8 24"X12" DETOUR
WEST EAST
60 60
M06-1 21"X21"

Hustisford
Neosho
Mayville

DETOUR M4-8 24"X12"
WEST SOUTH EAST
60 67 60
M06-1 21"X21"

Neosho

PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	DETOUR DETAIL E	SHEET 14	E

FILE NAME : X:\PROJECTS\DODGE\230130 - 3042-01-30 STH 60 LEVEL VALLEY RD AND CTH R STRUCTURES\DESIGN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - DETAIL E
PLOT DATE : 7/15/2026 5:12 PM PLOT BY : JOHNATHAN HOPP PLOT NAME : PLOT SCALE : 1 IN : 1000FT

2

2

LEGEND

- DETOUR
- WORK AREA
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING SIGN POST(S)
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TYPE III BARRICADE W/ SIGN

NOTE: PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO WI MUTCD AND DETAILS "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION", AND "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES." SEE SEPARATE SHEETS FOR TRAFFIC CONTROL NOTES.

N

60
M06-1
21"X21"

ROAD CLOSED AHEAD
W20-3A

60
M06-1
21"X21"

ROAD CLOSED AHEAD
W20-3A

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

RUBICON ST

ROAD CLOSED AHEAD
W20-3A

STH 60

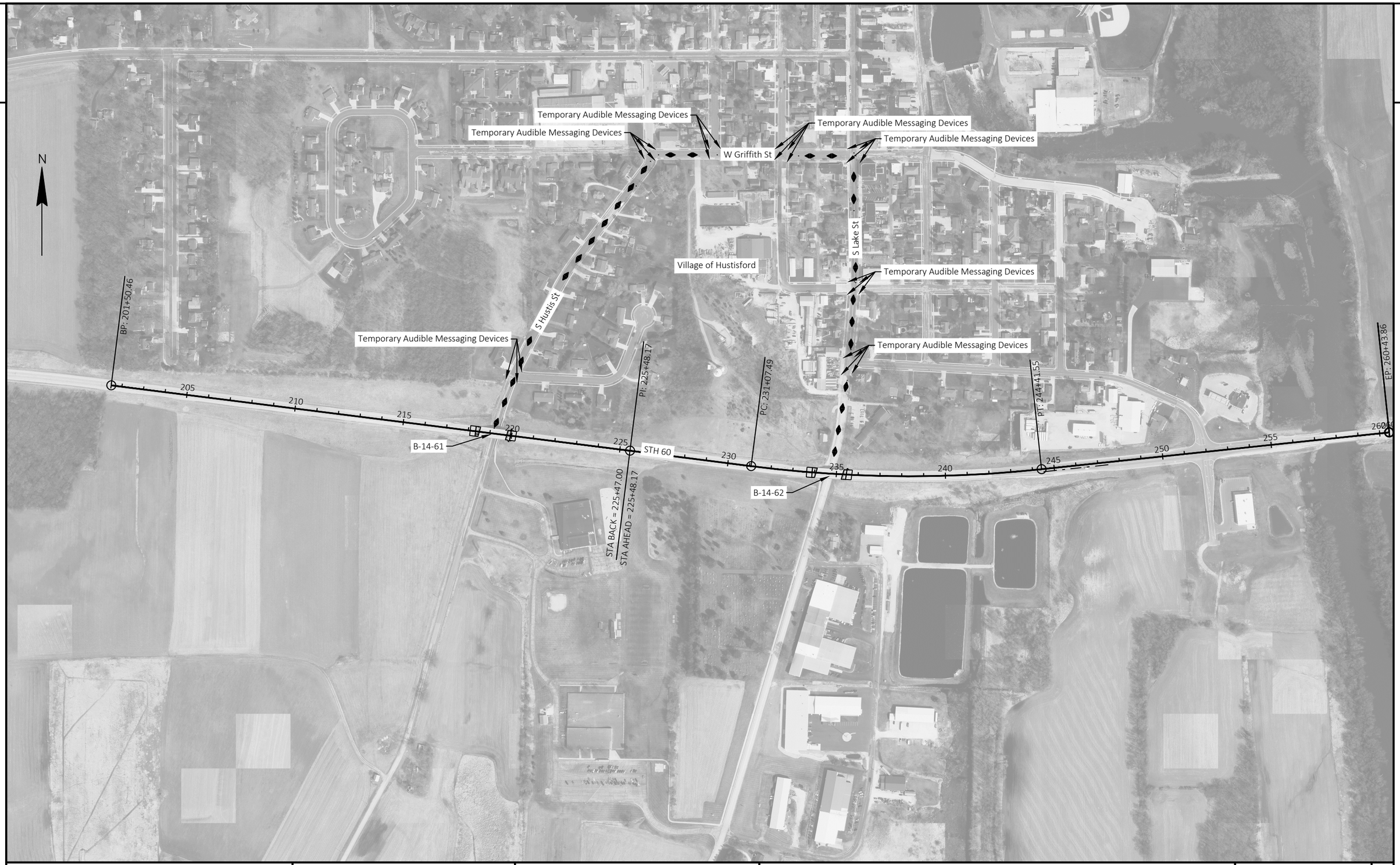
60
M06-1
21"X21"

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

istisford

PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	DETOUR DETAIL F	SHEET 15	E

2



PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	DETOUR DETAIL PEDESTRIAN ROUTE	SHEET 16	E

FILE NAME : X:\PROJECTS\DODGE\230130 - 3042-01-30 STH 60 LEVEL VALLEY RD AND CTH R STRUCTURES\DESIGN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - DETAIL F (2)
PLOT DATE : 7/15/2026 5:12 PM
PLOT BY : JOHNATHAN HOPP
PLOT NAME :
PLOT SCALE : 1 IN : 1000FT
WISDOT/CADDS SHEET 42

Estimate Of Quantities

3042-01-60

Line	Item	Item Description	Unit	Total	Qty
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	494.000	494.000
0004	204.0165	Removing Guardrail	LF	374.000	374.000
0006	204.0175	Removing Concrete Slope Paving	SY	635.000	635.000
0008	204.0190	Removing Surface Drains	EACH	3.000	3.000
0010	205.0100	Excavation Common	CY	167.000	167.000
0012	213.0100	Finishing Roadway (project) 01. 3042-01-60	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	28.000	28.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	221.000	221.000
0018	415.0080	Concrete Pavement 8-Inch	SY	146.000	146.000
0020	415.0410	Concrete Pavement Approach Slab	SY	190.000	190.000
0022	455.0605	Tack Coat	GAL	36.000	36.000
0024	460.6224	HMA Pavement 4 MT 58-28 S	TON	78.000	78.000
0026	502.3200	Protective Surface Treatment	SY	1,230.000	1,230.000
0028	502.3205	Pigmented Surface Sealer Reseal	SY	195.000	195.000
0030	509.0301	Preparation Decks Type 1	SY	126.000	126.000
0032	509.0302	Preparation Decks Type 2	SY	57.000	57.000
0034	509.0500	Cleaning Decks	SY	1,226.000	1,226.000
0036	509.1500	Concrete Surface Repair	SF	60.000	60.000
0038	509.2000	Full-Depth Deck Repair	SY	21.000	21.000
0040	509.2500	Concrete Masonry Overlay Decks	CY	87.000	87.000
0042	509.9020.S	Epoxy Crack Sealing	LF	200.000	200.000
0044	602.3010	Concrete Surface Drains	CY	9.000	9.000
0046	604.0400	Slope Paving Concrete	SY	655.000	655.000
0048	606.0200	Riprap Medium	CY	55.000	55.000
0050	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	486.000	486.000
0052	614.0200	Steel Thrie Beam Structure Approach	LF	168.000	168.000
0054	614.0212	Steel Thrie Beam Structure Approach Retrofit Cantilever Blunt End	EACH	3.000	3.000
0056	614.0305	Steel Plate Beam Guard Class A	LF	208.000	208.000
0058	614.0400	Adjusting Steel Plate Beam Guard	LF	104.000	104.000
0060	618.0100	Maintenance and Repair of Haul Roads (project) 01. 3042-01-60	EACH	1.000	1.000
0062	619.1000	Mobilization	EACH	1.000	1.000
0064	624.0100	Water	MGAL	5.000	5.000
0066	625.0100	Topsoil	SY	377.000	377.000
0068	628.1504	Silt Fence	LF	525.000	525.000
0070	628.1520	Silt Fence Maintenance	LF	525.000	525.000
0072	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0076	628.2002	Erosion Mat Class I Type A	SY	377.000	377.000
0078	629.0210	Fertilizer Type B	CWT	1.000	1.000
0080	630.0120	Seeding Mixture No. 20	LB	19.000	19.000
0082	630.0500	Seed Water	MGAL	21.000	21.000
0084	642.5001	Field Office Type B	EACH	1.000	1.000
0086	643.0420	Traffic Control Barricades Type III	DAY	882.000	882.000
0088	643.0705	Traffic Control Warning Lights Type A	DAY	840.000	840.000
0090	643.0900	Traffic Control Signs	DAY	10,431.000	10,431.000
0092	643.0920	Traffic Control Covering Signs Type II	EACH	11.000	11.000
0094	643.1050	Traffic Control Signs PCMS	DAY	15.000	15.000
0096	643.5000	Traffic Control	EACH	1.000	1.000
0098	644.1900.S	Temporary Audible Message Devices	DAY	217.000	217.000

Estimate Of Quantities

3042-01-60

Line	Item	Item Description	Unit	Total	Qty
0100	645.0130	Geotextile Type R	SY	110.000	110.000
0102	646.2020	Marking Line Epoxy 6-Inch	LF	1,668.000	1,668.000
0104	650.9911	Construction Staking Supplemental Control (project) 01. 3042-01-60	EACH	1.000	1.000
0106	690.0150	Sawing Asphalt	LF	178.000	178.000
0108	715.0502	Incentive Strength Concrete Structures	DOL	522.000	522.000
0110	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0112	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 219+14	EACH	1.000	1.000
0114	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 02. 234+69	EACH	1.000	1.000
0116	SPV.0090	Special 01. Remove and Replace Timber Railing	LF	144.000	144.000
0118	SPV.0165	Special 01. Removing Loose Concrete Overhead	SF	368.000	368.000

3

BUTT JOINTS

CATEGORY	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	REMARKS
0010	B-14-0061 WEST APPROACH	126	
0010	B-14-0061 EAST APPROACH	121	
0010	B-14-0062 WEST APPROACH	124	
0010	B-14-0062 EAST APPROACH	123	
	TOTAL 0010	494	

REMOVING GUARDRAIL

CATEGORY	LOCATION	204.0165 REMOVING GUARDRAIL LF	REMARKS
0010	B-14-0061 NW QUAD	55	
0010	B-14-0061 SW QUAD	55	
0010	B-14-0061 NE QUAD	38	
0010	B-14-0061 SE QUAD	38	
0010	B-14-0062 NW QUAD	58	
0010	B-14-0062 SW QUAD	58	
0010	B-14-0062 NE QUAD	36	
0010	B-14-0062 SE QUAD	37	
	TOTAL 0010	374	

3

REMOVING SURFACE DRAINS

CATEGORY	LOCATION	204.0190 REMOVING SURFACE DRAINS EACH	REMARKS
0010	B-14-0061 NE QUAD	1	
0010	B-14-0061 SE QUAD	1	
0010	B-14-0062 NE QUAD	1	
	TOTAL 0010	3	

EXCAVATION COMMON

CATEGORY	LOCATION	205.0100 EXCAVATION COMMON CY	REMARKS
0010	B-14-0061 WEST APPROACH	42	
0010	B-14-0061 EAST APPROACH	41	
0010	B-14-0062 WEST APPROACH	43	
0010	B-14-0062 EAST APPROACH	41	
	TOTAL 0010	167	

BASE AGGREGATE

CATEGORY	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	REMARKS
0010	B-14-0061 WEST APPROACH	7	56	
0010	B-14-0061 EAST APPROACH	7	54	
0010	B-14-0062 WEST APPROACH	7	57	
0010	B-14-0062 EAST APPROACH	7	54	
	TOTAL 0010	28	221	

APPROACH SLABS

CATEGORY	LOCATION	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	REMARKS
0010	B-14-0061 WEST APPROACH	37	46	
0010	B-14-0061 EAST APPROACH	36	45	
0010	B-14-0062 WEST APPROACH	38	47	
0010	B-14-0062 EAST APPROACH	35	52	
	TOTAL 0010	146	190	

3

HMA PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	AREA SY	HMA DEPTH IN	455.0605 TACK COAT GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	REMARKS
0010		-		B-14-0061 WEST APPROACH	126	2.75	9	20	
0010		-		B-14-0061 EAST APPROACH	121	2.75	9	19	
0010		-		B-14-0062 WEST APPROACH	124	2.75	9	20	
0010		-		B-14-0062 EAST APPROACH	123	2.75	9	19	
				TOTAL 0010			36	78	

3

CONCRETE SURFACE DRAINS

CATEGORY	LOCATION	602.3010 CONCRETE SURFACE DRAINS CY	606.0200 RIPRAP MEDIUM CY	645.0130 GEOTEXTILE TYPE R SY	REMARKS
0010	B-14-0061 NE QUAD	4	17	34	
0010	B-14-0061 SE QUAD	3	18	36	
0010	B-14-0062 NE QUAD	2	20	40	
	TOTAL 0010	9	55	110	

ADJUSTING STEEL BEAM GUARD

CATEGORY	LOCATION	614.0200 STEEL THRIE BEAM STRUCTURE APPROACH LF	614.0212 STEEL THRIE BEAM STRUCTURE APPROACH RETROFIT CANTILEVER BLUNT END EACH	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0400 ADJUSTING STEEL PLATE BEAM GUARD LF	REMARKS
0010	B-14-0061 NW QUAD	21	-	35	13	
0010	B-14-0061 SW QUAD	21	-	36	13	
0010	B-14-0061 NE QUAD	21	1	17	13	
0010	B-14-0061 SE QUAD	21	1	15	13	
0010	B-14-0062 NW QUAD	21	-	35	13	
0010	B-14-0062 SW QUAD	21	-	35	13	
0010	B-14-0062 NE QUAD	21	1	18	13	
0010	B-14-0062 SE QUAD	21	-	17	13	
	TOTAL 0010	168	3	208	104	

WATER

CATEGORY	LOCATION	624.0100 WATER MGAL	REMARKS
0010	PROJECT	5	
	TOTAL 0010	5	

3

3

EROSION CONTROL AND LANDSCAPING

CATEGORY	LOCATION	625.0100 TOPSOIL SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2002 EROSION MAT CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0500 SEED WATER MGAL	REMARKS
0010	B-14-0061 WEST APPROACH	81	140	140			81	0.05	4	5	
0010	B-14-0061 EAST APPROACH	124	120	120			124	0.08	6	5	
0010	B-14-0062 WEST APPROACH	62	120	120			62	0.04	3	5	
0010	B-14-0062 EAST APPROACH	92	120	120			92	0.06	5	5	
0010	UNDISTRIBUTED	18	25	25	2	1	18	0.77	1	1	
	TOTAL 0010	377	525	525	2	1	377	1	19	21	

TRAFFIC CONTROL

CATEGORY	LOCATION	DAYS IN SERVICE	643.0420 TRAFFIC CONTROL BARRICADES TYPE III COUNT	643.0420 DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A COUNT	643.0705 DAY	643.0900 TRAFFIC CONTROL SIGNS COUNT	643.0900 DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II CYCLES	643.0920 EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS COUNT	643.1050 DAY	643.5000 TRAFFIC CONTROL EACH	644.1900.S TEMPORARY AUDIBLE MESSAGE DEVICES COUNT	644.1900.S DAY	REMARKS
0010	B-14-0061	40	7	280	10	400	4	160	1	2						DETAIL F
0010	B-14-0062	40	7	280	10	400	3	120	1	1						DETAIL F
0010	DETAIL A	40	2	80			31	1,240	1	6	1	14				
0010	DETAIL B	40					72	2,880								
0010	DETAIL C	40					72	2,880								
0010	DETAIL D	40	3	120			45	1,800								
0010	DETAIL E	40	2	80			14	560	3	1						
0010	PEDESTRIAN DETOUR B-14-0061	7					20	140						15	105	SDD 15D30-12F
0010	PEDESTRIAN DETOUR B-14-0062	7					22	154						16	112	SDD 15D30-12F
0010	UNDISTRIBUTED			42		40		497		1		1	1			
	TOTAL 0010			882		840		10,431		11		15	1		217	

3

PAVEMENT MARKING

646.2020

MARKING LINE EPOXY 6-INCH

CATEGORY	LOCATION	(WHITE) LF	(YELLOW) LF	REMARKS
0010	B-14-0061	420	420	
0010	B-14-0062	414	414	
	TOTAL 0010	1,668		

3

CONSTRUCTION STAKING

650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 3042-01-60)

CATEGORY	LOCATION	EACH	REMARKS
0010	PROJECT	1	
	TOTAL 0010	1	

SAWING

690.0150

SAWING ASPHALT

CATEGORY	LOCATION	LF	REMARKS
0010	B-14-0061 W	45	
0010	B-14-0061 E	44	
0010	B-14-0062 W	45	
0010	B-14-0062 E	44	
	TOTAL 0010	178	

BIRD DETERRENT SYSTEMS

CATEGORY	LOCATION	999.2000.S.01 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. 219+14) EACH	999.2000.S.02 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (02. 234+69) EACH	REMARKS
0010	B-14-0061	1		
0010	B-14-0062		1	
	TOTAL 0010	1	1	

1 STEEL PLATE BEAM GUARD CLASS A

2 12.5' ADJUSTING STEEL PLATE BEAM GUARD

3 CONCRETE SURFACE DRAIN (REPLACE IN KIND)
(REFER TO SDD 14B48-A FOR BEAM GUARD POSTS)

4 STEEL THRIE BEAM TRANSITION APPROACH

BUTT JOINT

RIPRAP MEDIUM

VILLAGE OF HUSTIFORD UNDERGROUND ELECTRIC LINE

EP: 10+91.70

CP106
STA 219+08.28
-99.61' LT

FRONTIER COMMUNICATION LINE

CHARTER COMMUNICATION LINE

BEGIN PROJECT
STA 218+08.89
Y=681284.49
X=908624.21

STA 218+23.64
-23.29' LT

STA 218+44.24
-23.35' LT

STA 217+88.72
-23.04' LT

CP108
STA 218+94.58
-0.22' LT

N16°24'57"E

BM1616
STA 218+41.15
23.19' RT

STA 218+37.76
23.03' RT

STA 217+81.69
23.03' RT

STA 218+16.52
23.12' RT

LEVEL VALLEY RD

BP: 9+00.00

HUBBARD SANITARY DISTRICT 2

MH

MH

BM204
STA 219+29.01
100.13' RT

VILLAGE OF HUSTISFORD ELECTRIC LINE

VILLAGE OF HUSTISFORD STORM SEWER

NET EXCEPTION TO CL LENGTH
STA 220+19.08 - STA 233+63.71

STA 220+28.09
-22.88' LT

STA 220+10.69
-22.92' LT

STA 219+90.09
-22.99' LT

CP105
STA 220+12.58
-27.60' LT

STA 219+77.45
0.00'

STA 219+94.07
0.00'

STA 219+82.98
21.99' RT

STA 220+18.41
21.99' RT

STA 220+03.58
22.00' RT

STA 219+14.07 = STA 10+00.00 'LV'

SI (TYP)

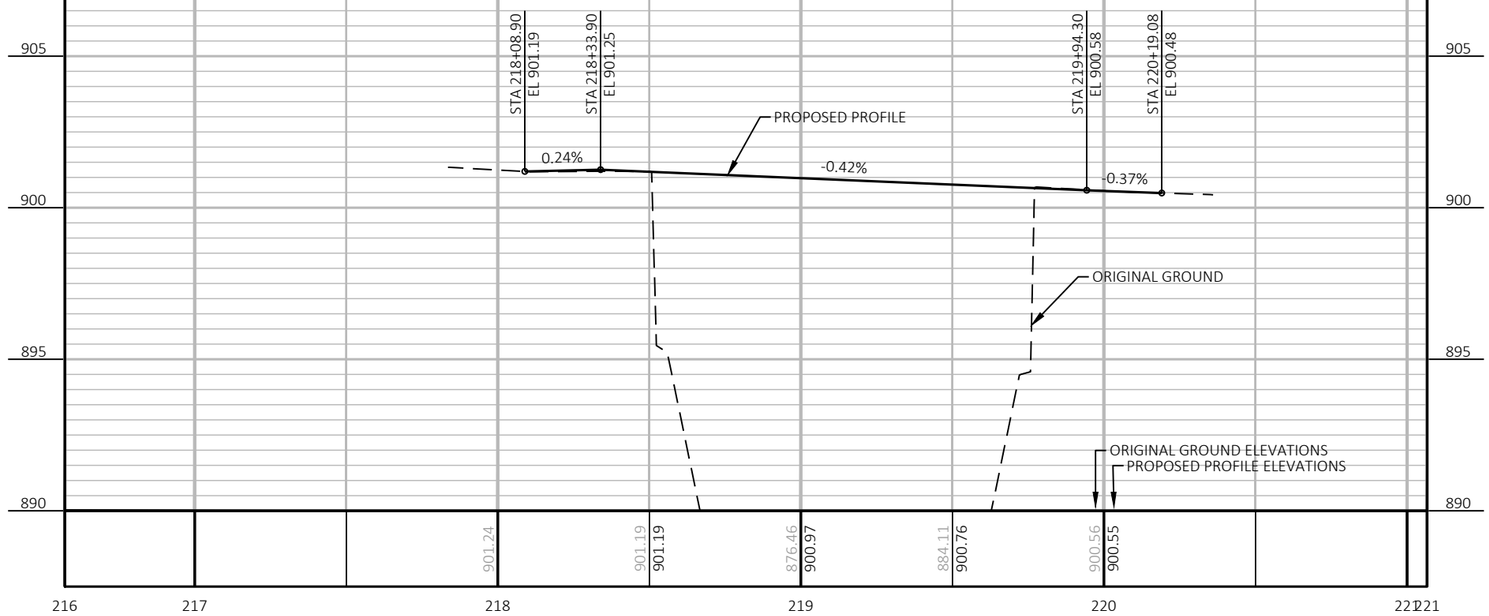
STH 60

N

215 216 217 218 219 220 221 222

BENCH MARKS				
NO.	X	Y	ELEV.	DESCRIPTION
BM204	908730.887'	681170.142'	878.03'	HYD BURY BOLT
BM1616	908653.316'	681257.456'	903.41'	BRIDGE CAP

CONTROL POINTS				
NO.	X	Y	ELEV.	DESCRIPTION
CP105	908829.749'	681286.438'	899.05'	REBAR W/ CAP
CP106	908735.254'	681370.905'	875.51'	REBAR W/ CAP
CP108	908709.258'	681274.006'	876.57'	PK NAIL



PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	PLAN AND PROFILE: PLAN AND PROFILE STRUCTURE B-14-61	SHEET 23	E

FILE NAME : X:\PROJECTS\DODGE\230130 - 3042-01-30 STH 60 LEVEL VALLEY RD AND CTH R STRUCTURES\DESIGN\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 01

PLOT DATE : 7/10/2026 2:42 PM PLOT BY : MAYA VAVRICKA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

1 STEEL PLATE BEAM GUARD CLASS A

2 12.5' ADJUSTING STEEL PLATE BEAM GUARD

3 CONCRETE SURFACE DRAIN (REPLACE IN KIND)
(REFER TO SDD 14B48-A FOR BEAM GUARD POSTS)

4 STEEL THRIE BEAM TRANSITION APPROACH

BUTT JOINT

RIPRAP MEDIUM

FRONTIER COMMUNICATION LINE

CHARTER COMMUNICATION LINE

VILLAGE OF HUSTISFORD UNDERGROUND ELECTRIC LINE

BM201

EP: 10+93.08

STA 234+71.71
-99.76' LT

NET EXCEPTION TO CL LENGTH
STA 220+19.08 - STA 233+63.71

WE ENERGIES GAS LINE

STA 235+66.08
-22.35' LT

STA 235+83.57
-22.39' LT

END PROJECT
STA 235+71.75

STA 233+80.81
-22.29' LT

STA 233+45.29
-22.86' LT

STA 234+00.93
-21.92' LT

N16°34'43"E

STA 235+45.42
-22.53' LT

CP104
STA 234+88.80
-6.33' LT

Mid: 237+74.52

231 232 234 235 236 STH 60 237 238

STA 235+46.75
0.00'

CP101
STA 232+27.07
26.25' RT

BM1062
STA 233+96.52
23.41' RT

STA 233+36.58
22.76' RT

STA 233+92.02
22.65' RT

STA 233+71.49
22.76' RT

STA 235+72.99
21.84' RT

STA 235+35.13
22.12' RT

STA 235+55.64
22.01' RT

SI (TYP)

CTH R

STA 234+69.18 - STA 10+09.51 'R'

BP: 9+00.00

PI STA = 237+77.55
Y = 681036.420
X = 910575.995
DELTA = 13°20'26" LT
D = 1°00'00"
T = 670.06'
L = 1334.07'
R = 5729.58'
PC STA = 231+07.49
Y = 681121.389
X = 909911.340
PT STA = 244+41.55
Y = 681107.107
X = 911242.320
DB = S82°42'53"E
DA = N83°56'40"E

BENCH MARKS				
NO.	X	Y	ELEV.	DESCRIPTION
BM201	910280.189'	681186.267'	870.00'	LPOL BOLT
BM1062	910197.045'	681068.644'	895.79'	BRIDGE CAP
CONTROL POINTS				
NO.	X	Y	ELEV.	DESCRIPTION
CP101	910027.327'	681081.362'	895.23'	REBAR W/ CAP
CP104	910291.292'	681091.967'	871.19'	PK NAIL

900 895 890 885 882

STA 233+63.71
EL 892.81

STA 233+88.70
EL 892.43

STA 235+45.60
EL 889.52

STA 235+71.75
EL 888.81

-1.52% -1.86% -2.71%

PROPOSED PROFILE

ORIGINAL GROUND

ORIGINAL GROUND ELEVATIONS
PROPOSED PROFILE ELEVATIONS

893.07 892.17 892.22 871.24 891.30 873.85 890.37 889.28 889.40

231 232 233 234 235 236 237 237

PROJECT NO: 3042-01-60	HWY: STH 60	COUNTY: DODGE	PLAN AND PROFILE: PLAN AND PROFILE STRUCTURE B-14-62	SHEET 24 E

Standard Detail Drawing List

08D02-08A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E09-06	SILT FENCE
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C19-03	HMA LONGITUDINAL JOINTS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION AND ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION AND ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION AND ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS
14B20-12A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-12B	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS
14B48-01A	RETROFIT CANTILEVER BLUNT END
15C02-10A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-10B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-10C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-10H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-11A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-11B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D30-12F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

GENERAL NOTES

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

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

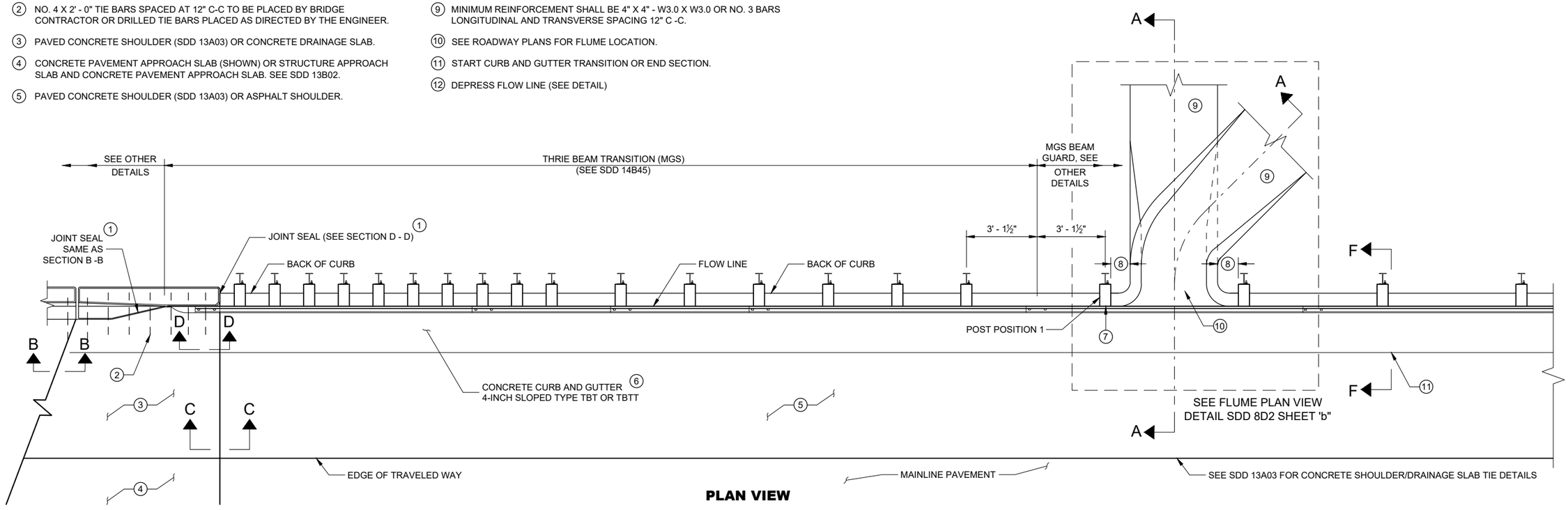
(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

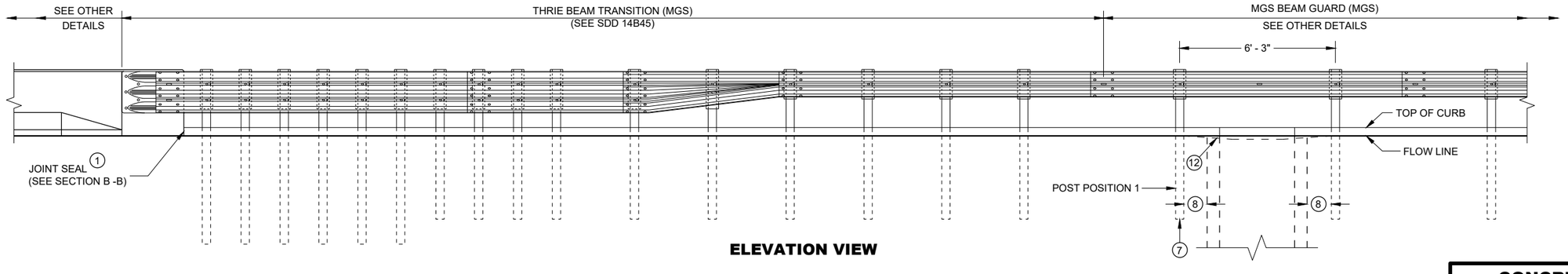
(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)



PLAN VIEW



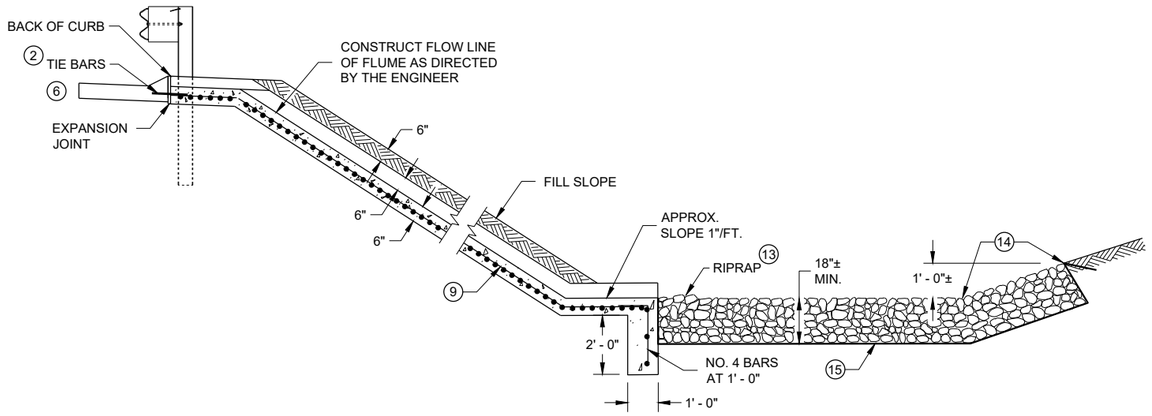
ELEVATION VIEW

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

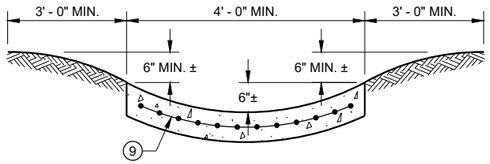
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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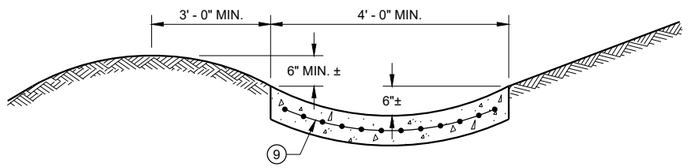
SDD 08D02 - 08a



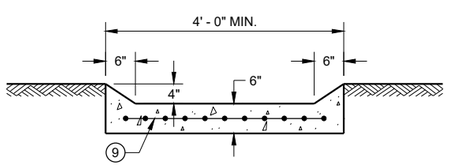
SECTION A - A



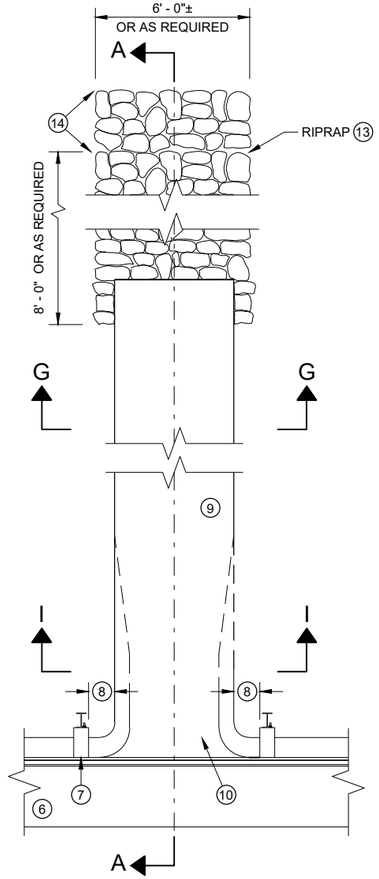
SECTION G - G



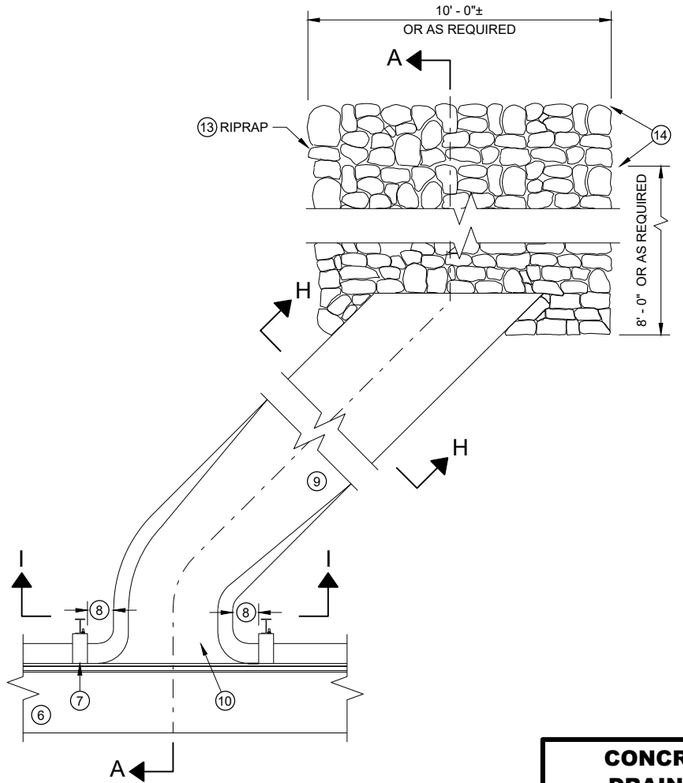
SECTION H - H



SECTION I - I



PLAN VIEW PERPENDICULAR FLUME



PLAN VIEW SKEWED FLUME

GENERAL NOTES

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

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

1. USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
2. NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
3. PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
4. CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
5. PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
7. PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
8. CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
9. MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
10. SEE ROADWAY PLANS FOR FLUME LOCATION.
11. START CURB AND GUTTER TRANSITION OR END SECTION.
12. DEPRESS FLOW LINE (SEE DETAIL)
13. MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
14. LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH AS REQUIRED.
15. GEOTEXTILE TYPE HR.

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

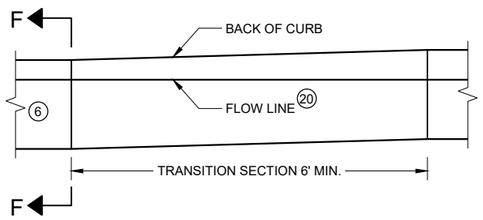
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

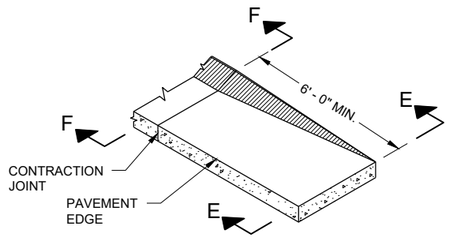
SDD 08D02 - 08b

6

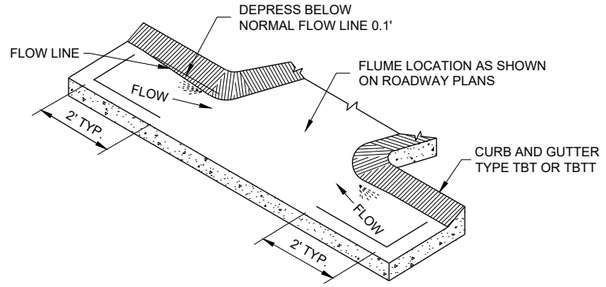
SDD 08D02 - 08b



CURB AND GUTTER TRANSITION SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT



CURB AND GUTTER END SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION
AT FLUMES CONCRETE CURB AND GUTTER
4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

GENERAL NOTES

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(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)

(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(15) GEOTEXTILE TYPE HR.

(16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

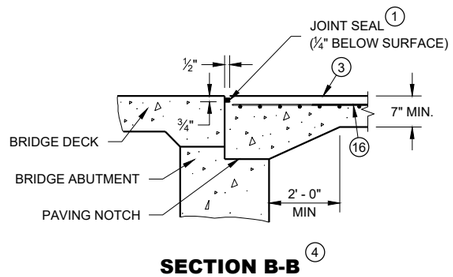
(17) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

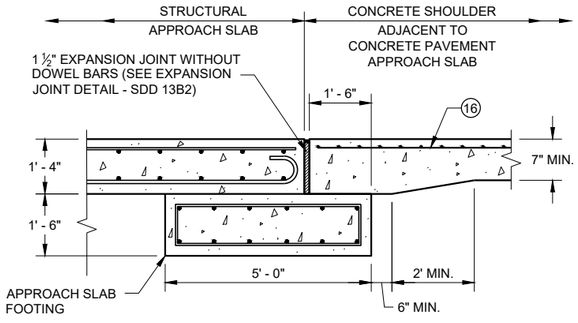
(19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

(20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

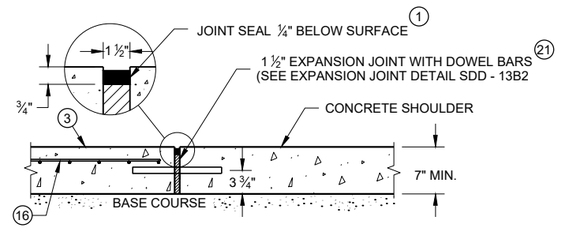
(21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



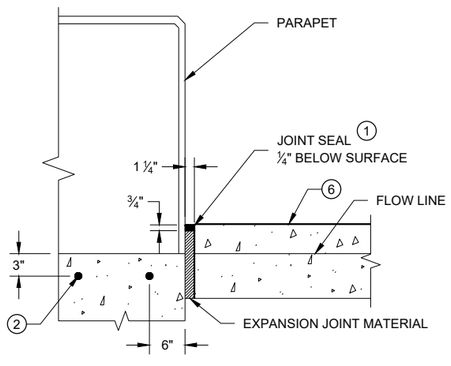
SECTION B-B (4)



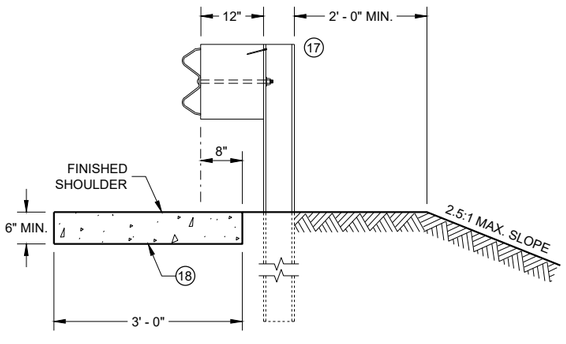
SECTION C - C
JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



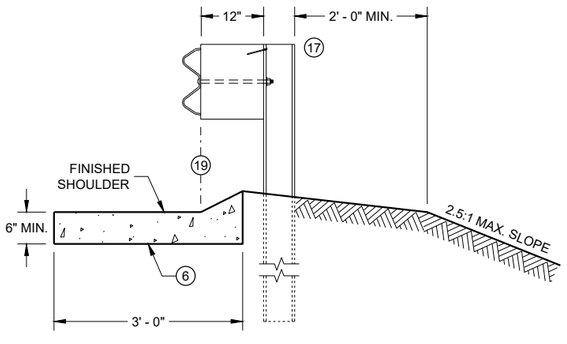
SECTION C - C
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



SECTION D - D



SECTION E - E



SECTION F - F

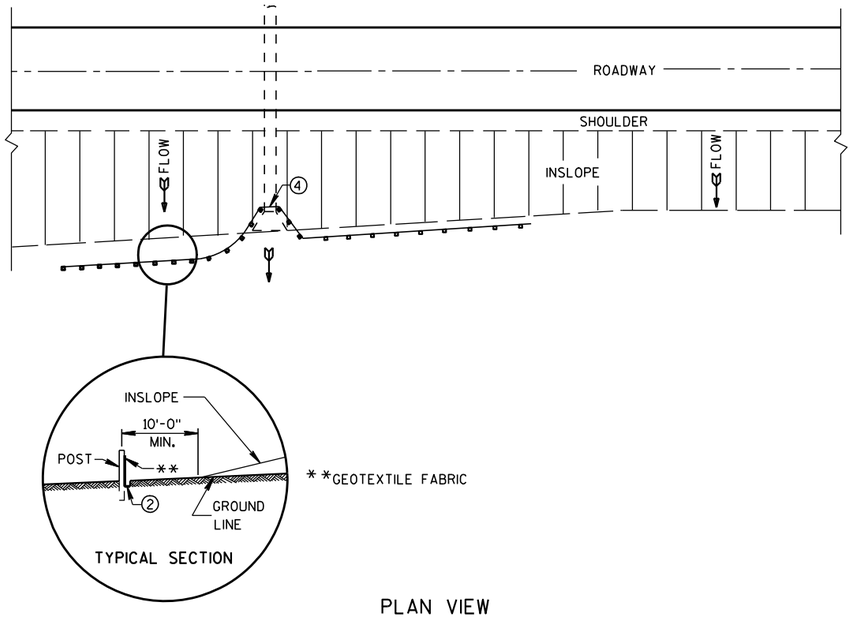
CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

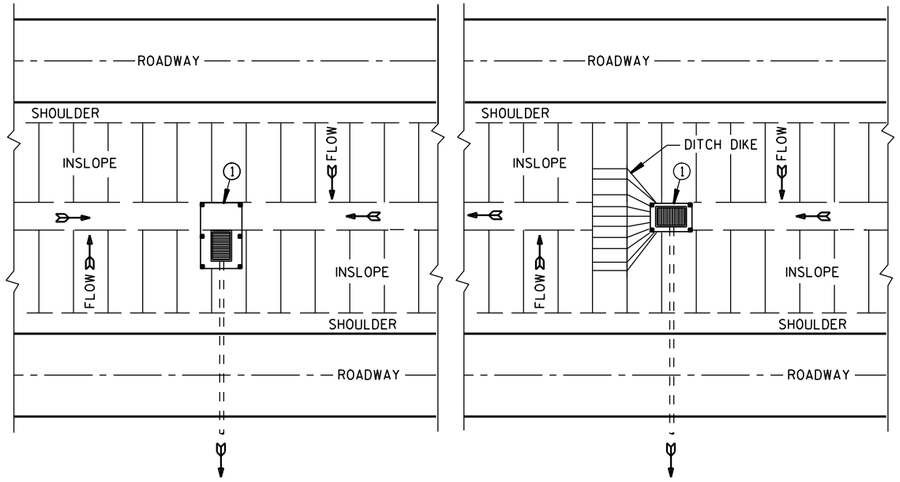
FHWA

6
SDD 08D02 - 08c



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



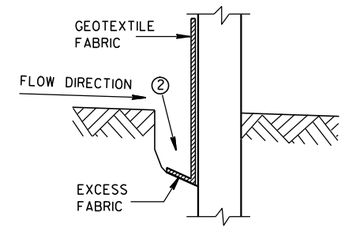
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

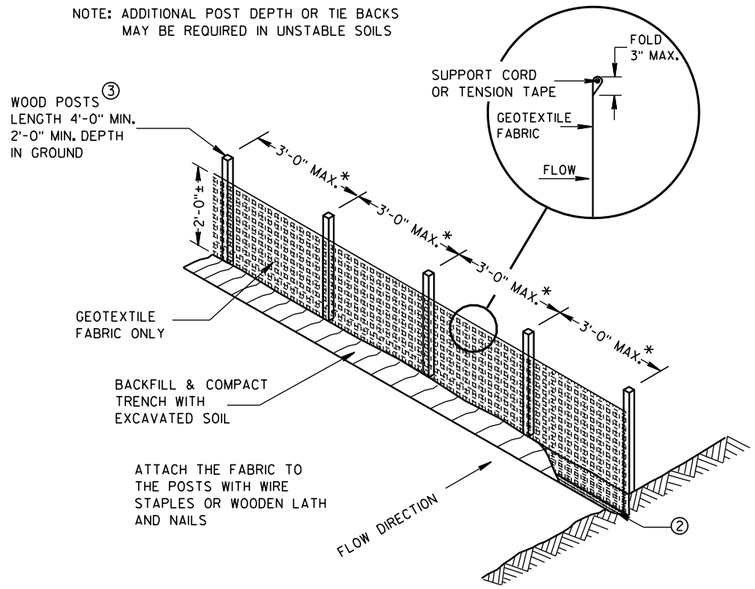
GENERAL NOTES

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

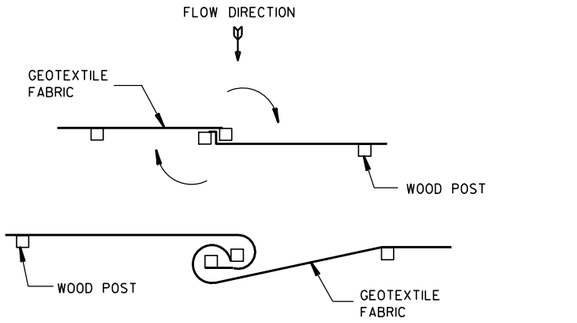
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



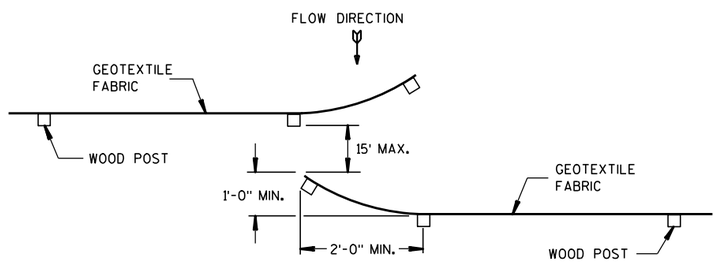
TRENCH DETAIL



SILT FENCE

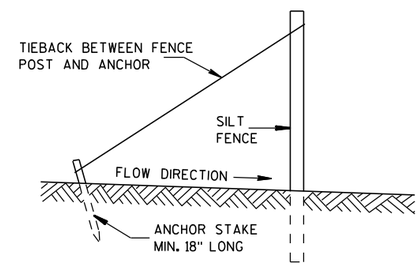


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

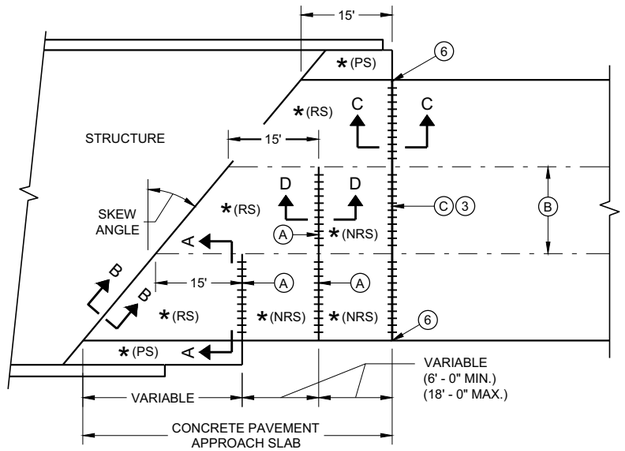
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

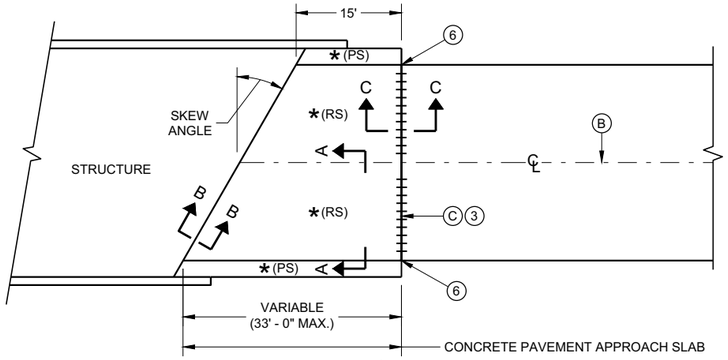
S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')

SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

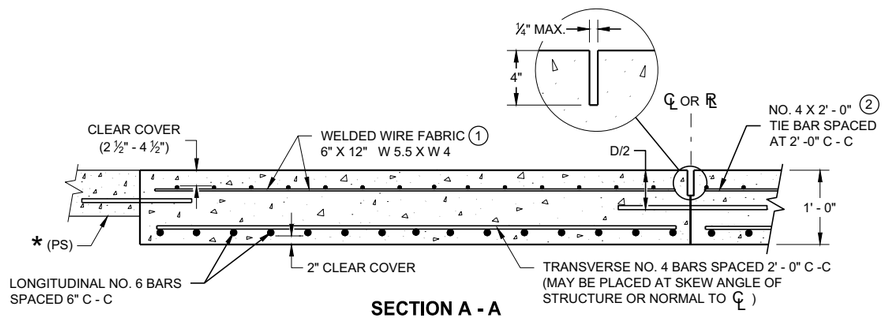
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

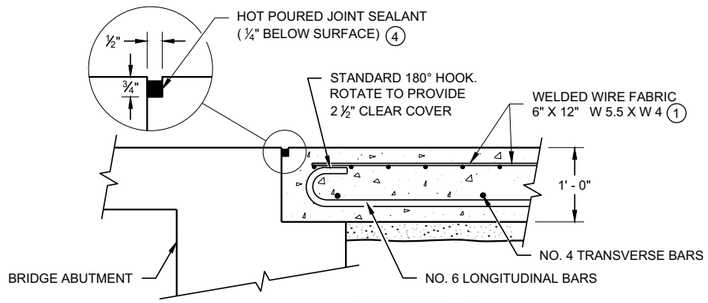
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

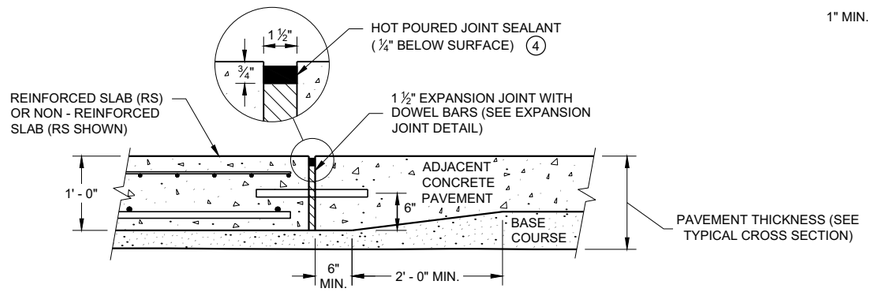
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

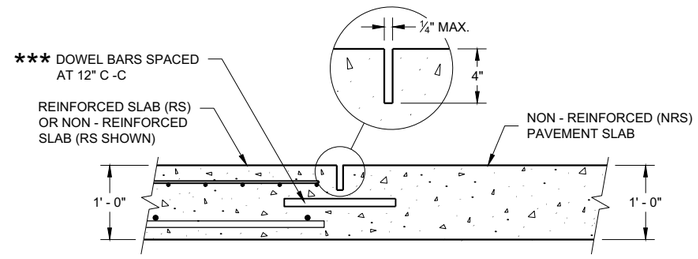
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

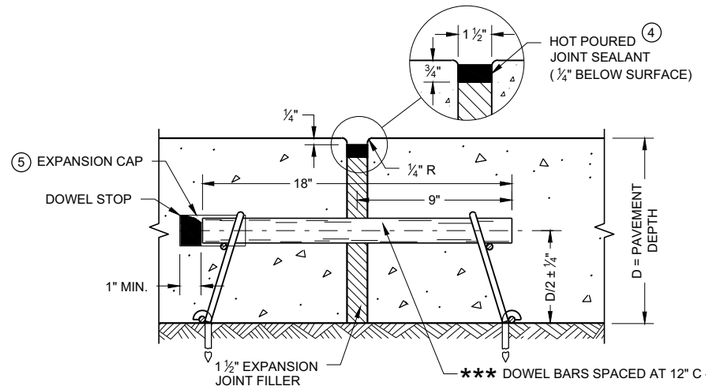
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

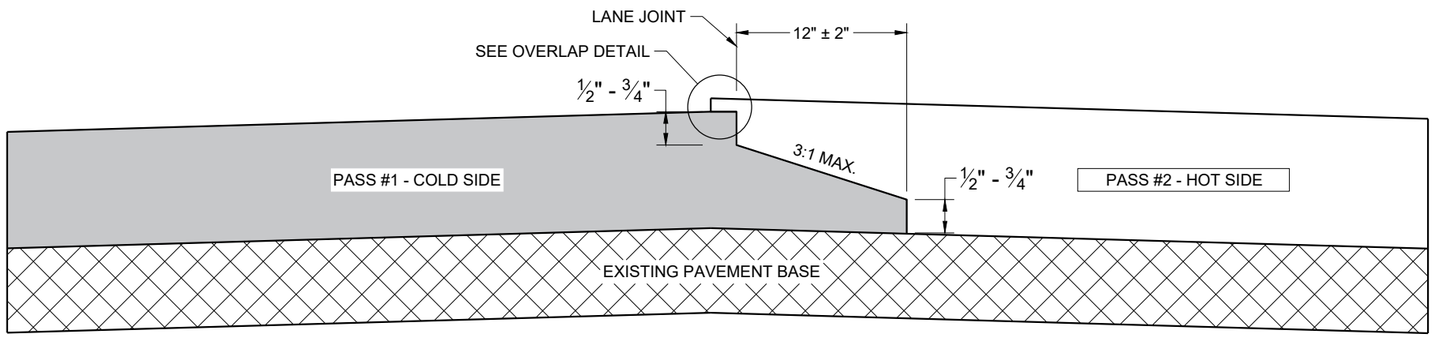
APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVIS

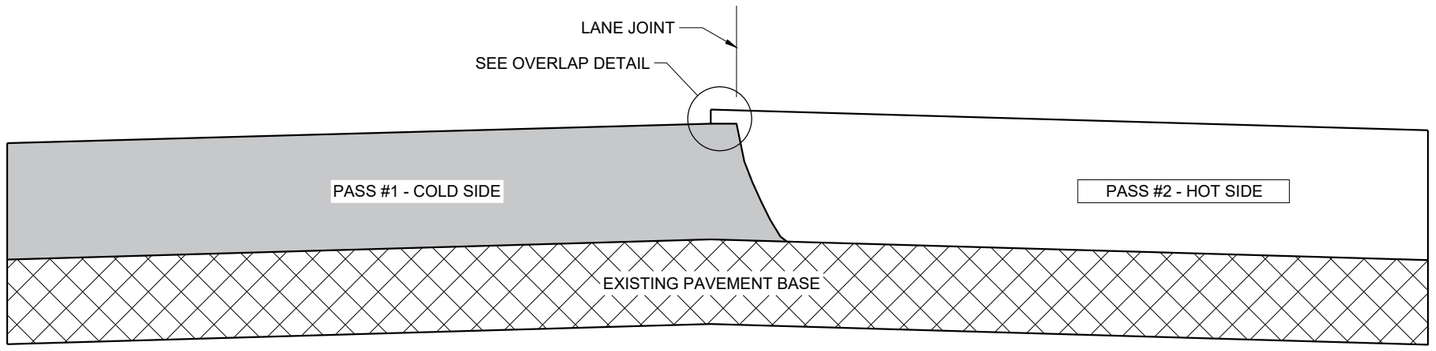
FHWA

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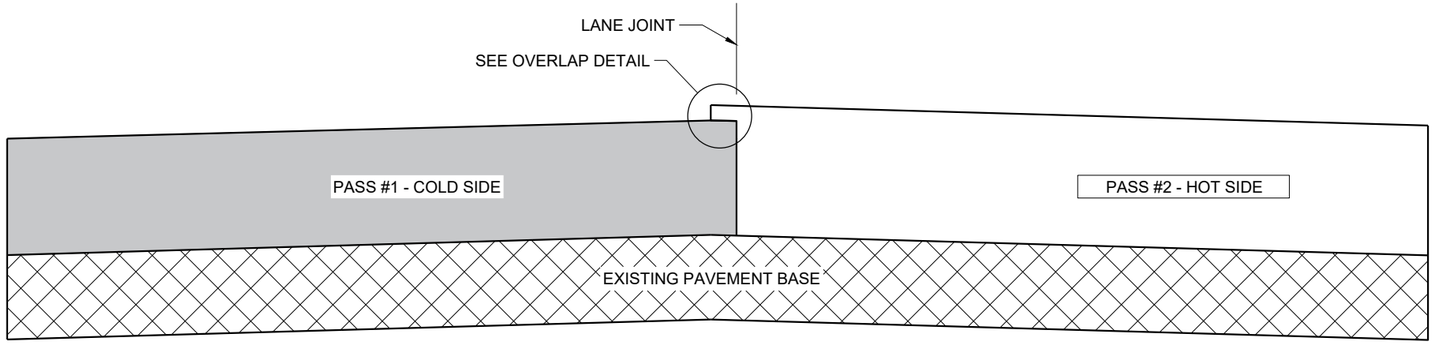
SDD 13B02 - 09a



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

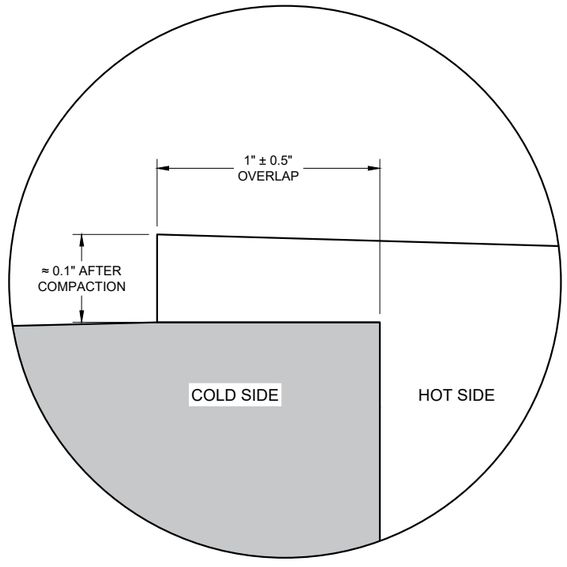
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA

SDD 14B15a Steel Plate Beam Guard, Class "A", Installation and Elements

GENERAL NOTES

1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6"X8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS. DO NOT MIX STEEL AND WOOD POSTS IN A SINGLE INSTALLATION.

2. USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGE SPELTER COATING ON GALVANIZED POSTS.

3. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

4. USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

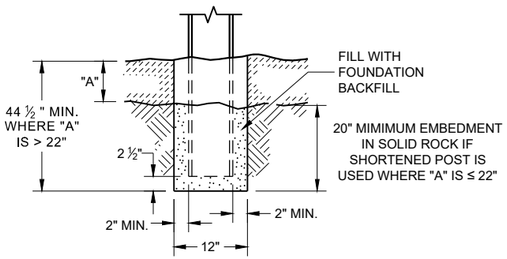
5. IF THE DISTACE FROM BACK OF POST TO SHOULDER HIGHE POINT IS LESS THAN 2 FEET, INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

6. IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCHES IN DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT ADEQUATELY.

7. WHEN USING STEEL POSTS AND WOOD BLOCKOUTS, INSTALL FOUR 16d GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

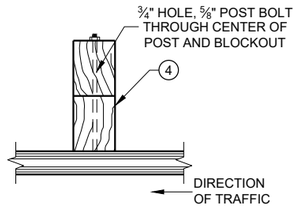
INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



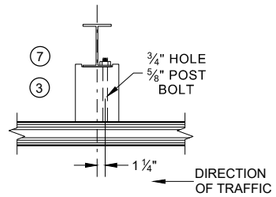
END VIEW

SETTING STEEL OR WOOD POST IN ROCK (6)



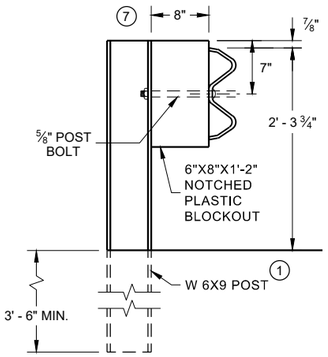
PLAN VIEW

WOOD POST, BLOCKOUT AND BEAM



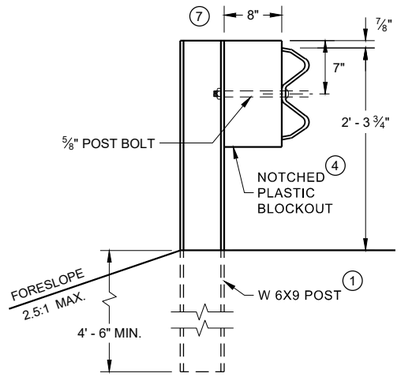
PLAN VIEW

WOOD POST, BLOCKOUT AND BEAM



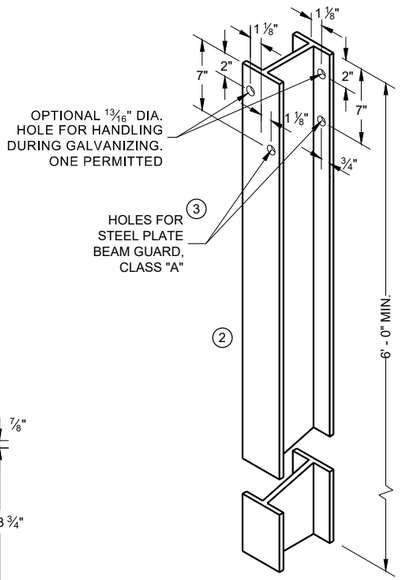
END VIEW

STEEL POST AND NOTCHED PLASTIC BLOCKOUT ALTERNATIVE STANDARD INSTALLATION



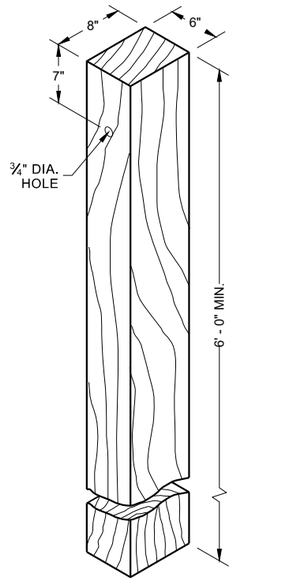
END VIEW

LONGER POST AT HALF POST SPACING W BEAM (LHW)

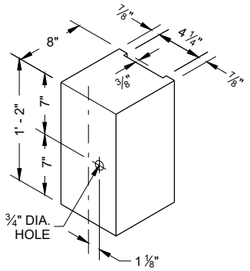


STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)

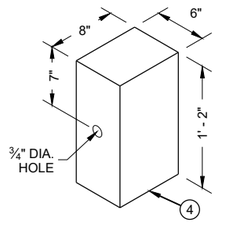
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



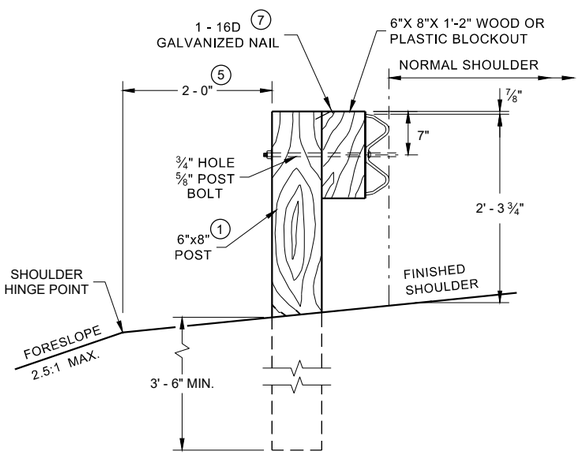
WOOD POST (6" X 8") NOMINAL (1)



TYPICAL NOTCHED PLASTIC BLOCKOUT FOR STEEL POSTS

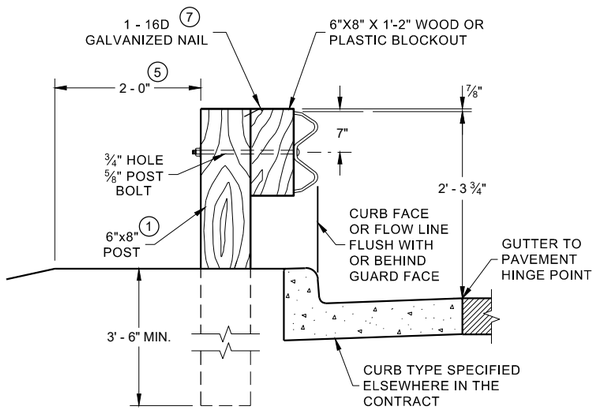


WOOD OR PLASTIC BLOCKOUT FOR WOOD POSTS



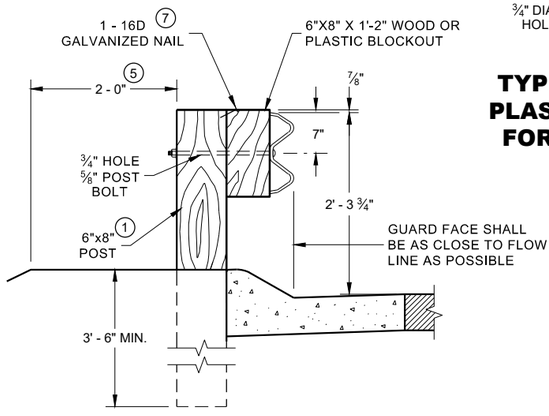
END VIEW

LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



END VIEW

LOCATED ALONG A CURBED ROADWAY



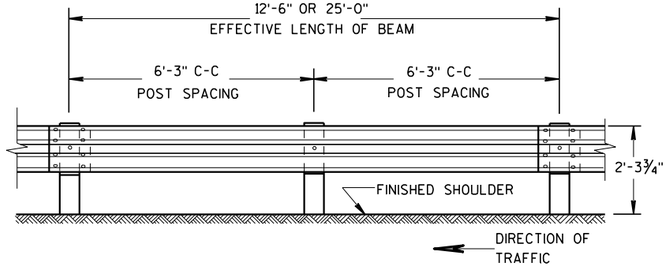
END VIEW

LOCATED ALONG A MOUNTABLE CURBED ROADWAY

STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION AND ELEMENTS

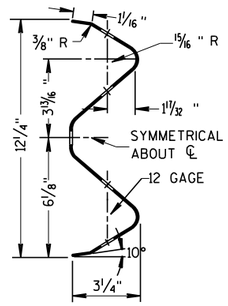
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B15 -11a

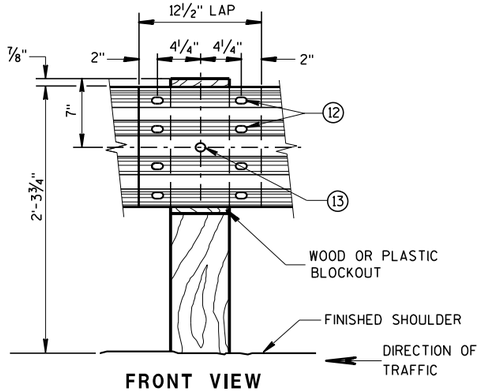


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

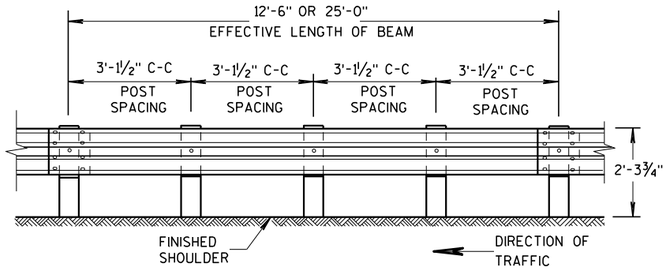
GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST #9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.

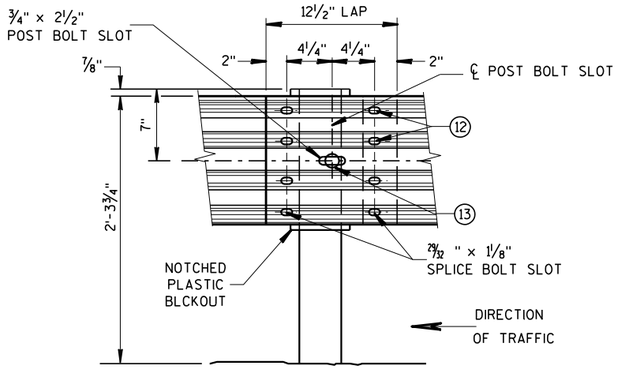
(12) 8 -5/8" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) 5/8" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5/8" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

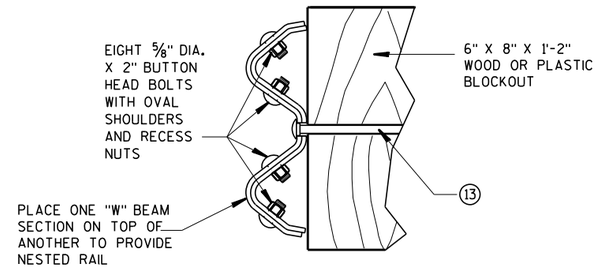
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

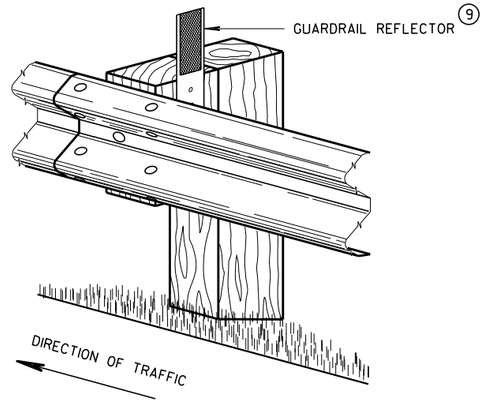
TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



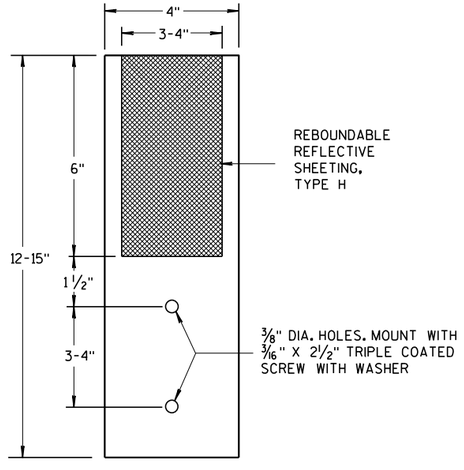
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

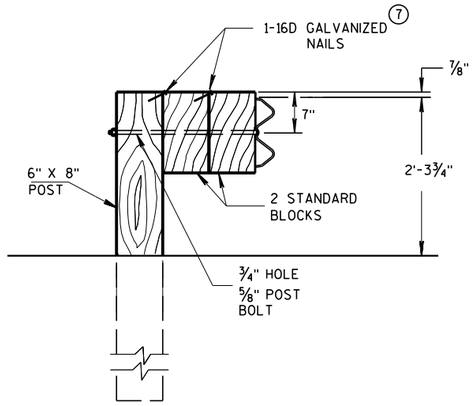
STATE OF WISCO 33
DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 15-11b

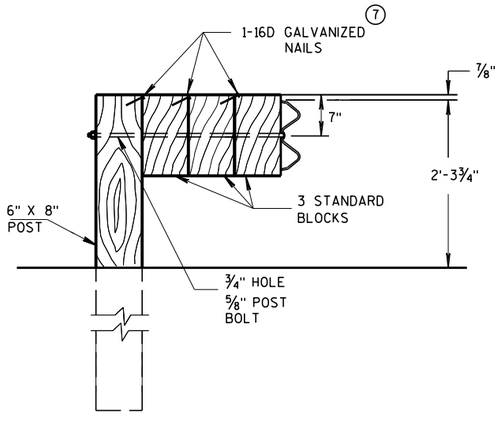
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S.D.D. 14 B 15-11b



DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

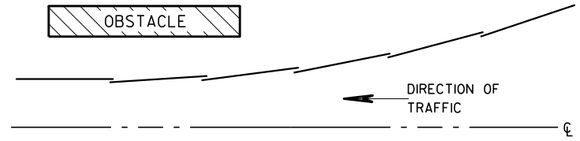


DETAIL FOR TRIPLE BLOCKS

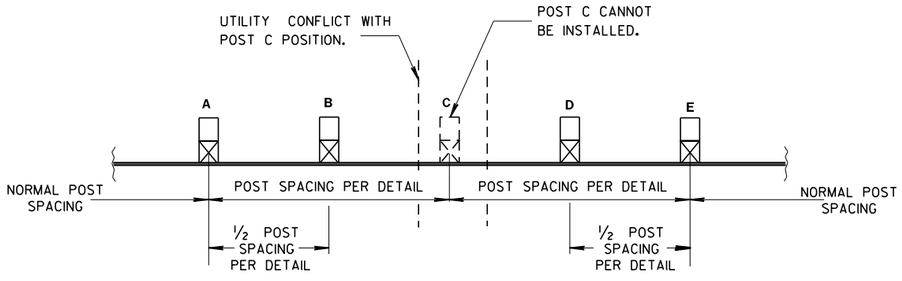
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

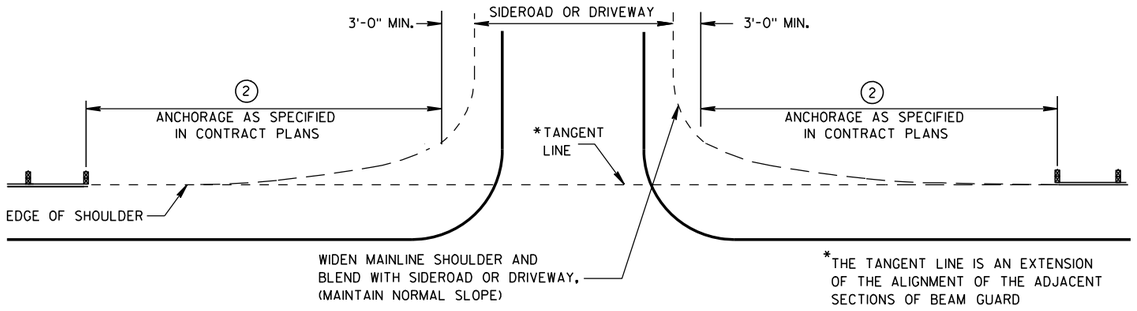
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

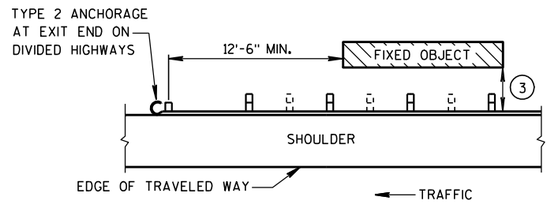
APPROVED
June 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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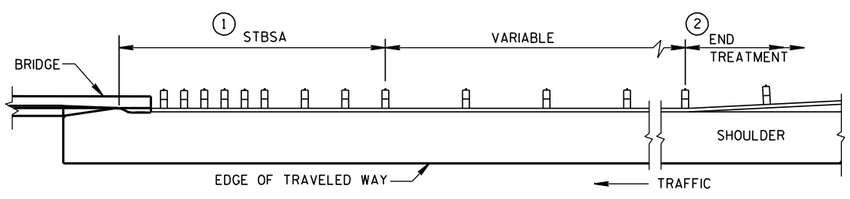
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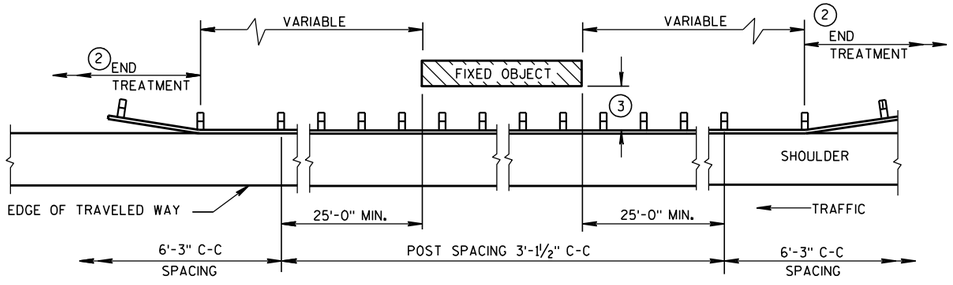
BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

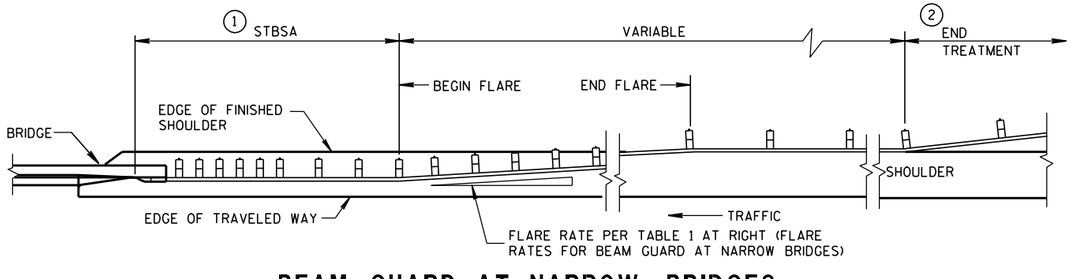


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAM GUARD AT NARROW BRIDGES

(FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1
FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

(1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE CURRENT SDD 14B20.

(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

(3)

MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
3'-6"	3' - 1½"
4'-6"	6' - 3"

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

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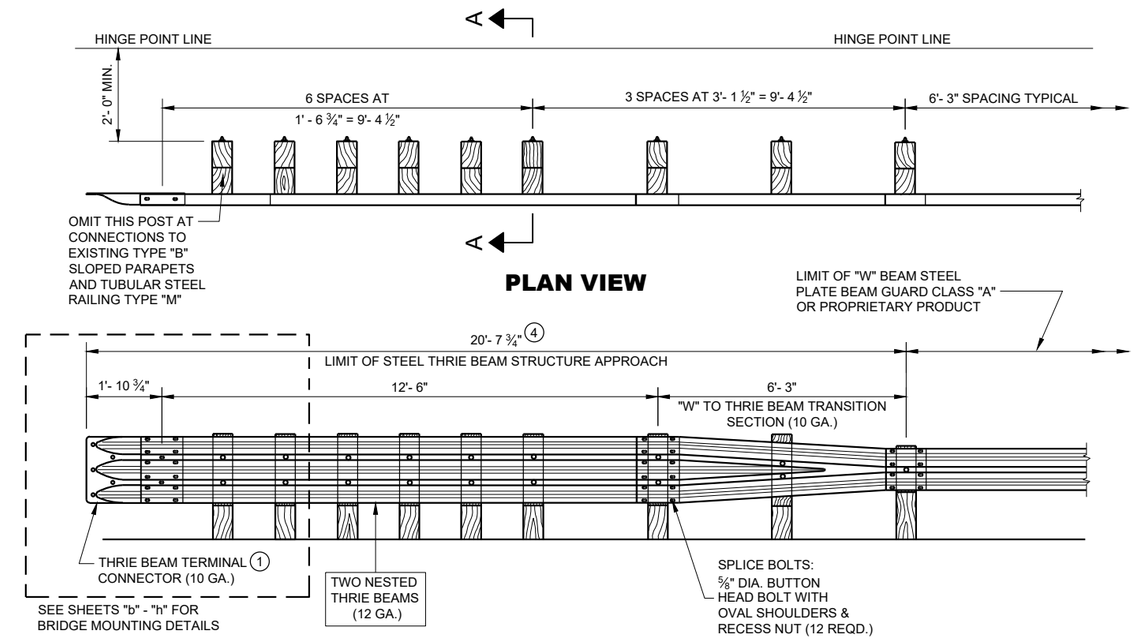
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8-21-07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

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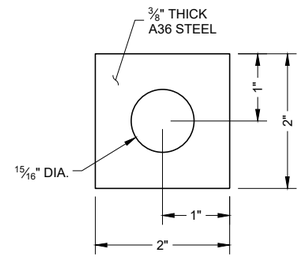


PLATE WASHER DETAIL

GENERAL NOTES

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

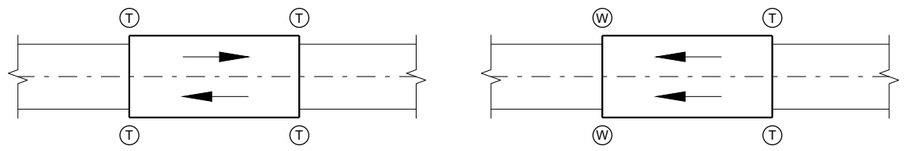
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 ½" , AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) MINIMUM EMBEDMENT SHALL BE 4'- 0".

(3) POST BOLTS ARE ⅝" DIAMETER ASTM A307 BUTTON HEAD BOLT. A POST BOLT REQUIRES A ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX AND A ⅝" DIAMETER F844 FLAT WASHER. LENGTH OF POST BOLT MAY VARY.

(4) ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.



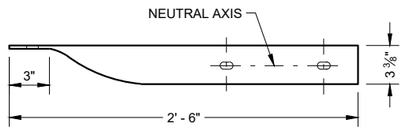
TWO WAY TRAFFIC

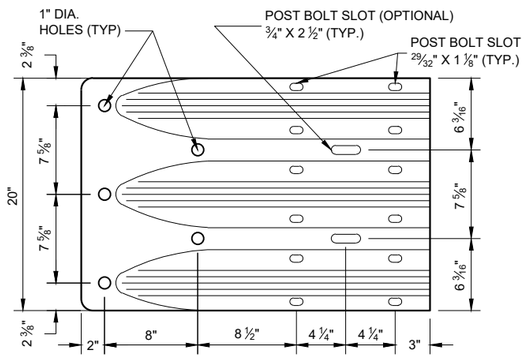
ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

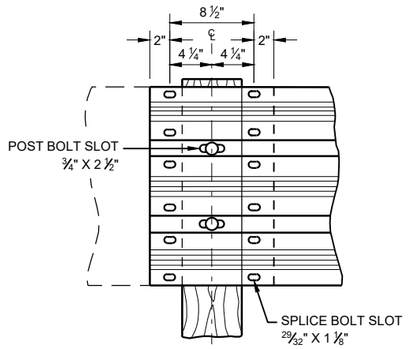
(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

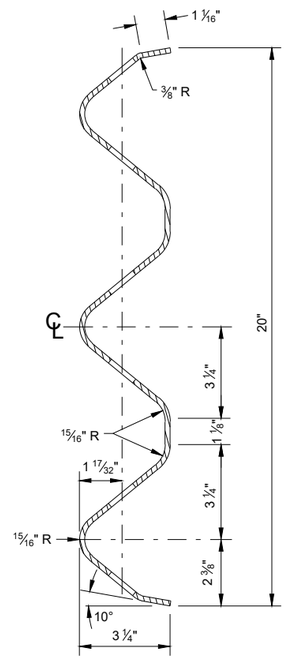




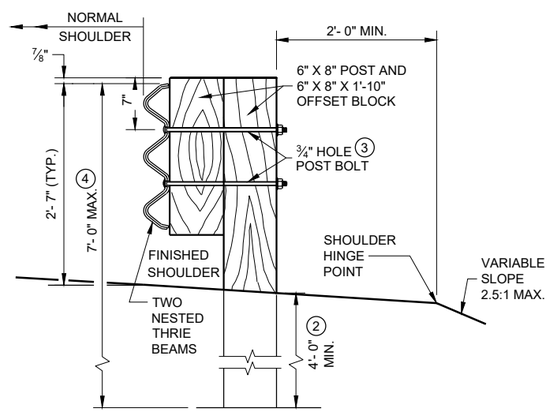
THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE



SECTION THRU BEAM RAIL ELEMENT



SECTION A-A

STEEL THRIE BEAM STRUCTURE APPROACH

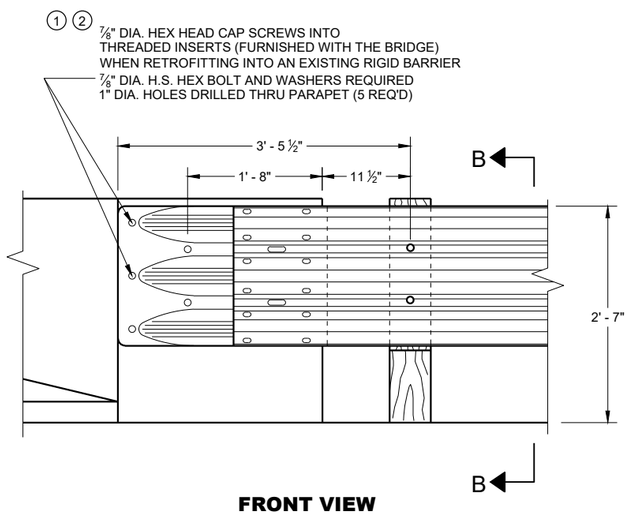
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November 2022 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

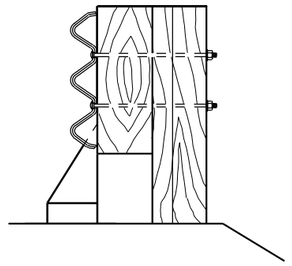
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FRONT VIEW



SECTION B - B

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSITION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

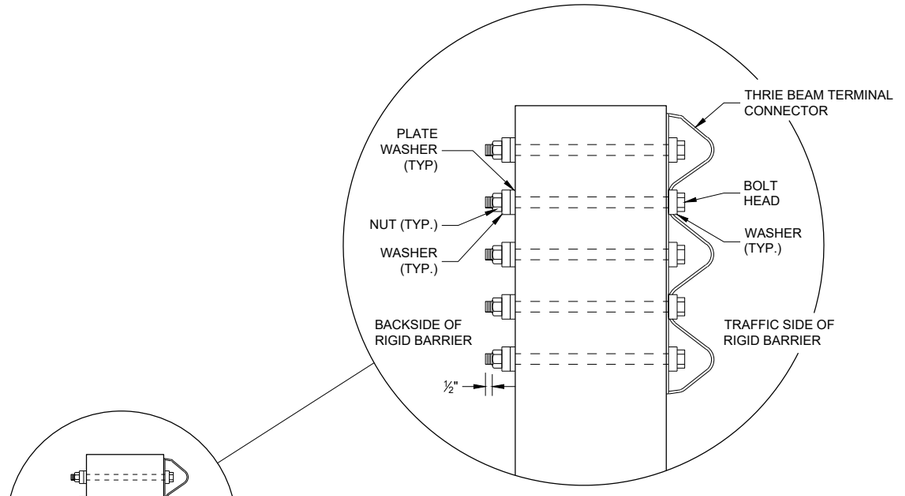
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

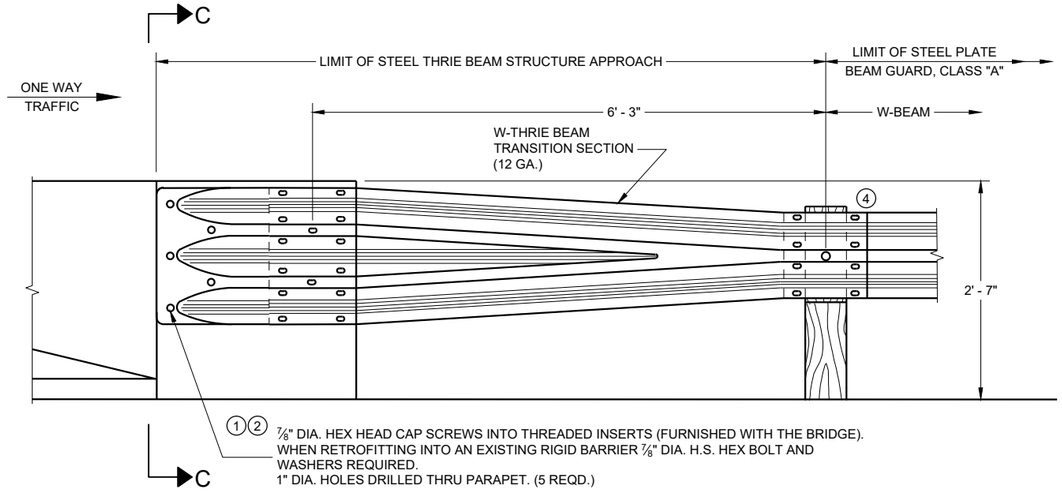
③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

④ W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.



SECTION C - C



①② ⅞" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE). WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER ⅞" DIA. H.S. HEX BOLT AND WASHERS REQUIRED.
1" DIA. HOLES DRILLED THRU PARAPET. (5 REQD.)

FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGE)

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS

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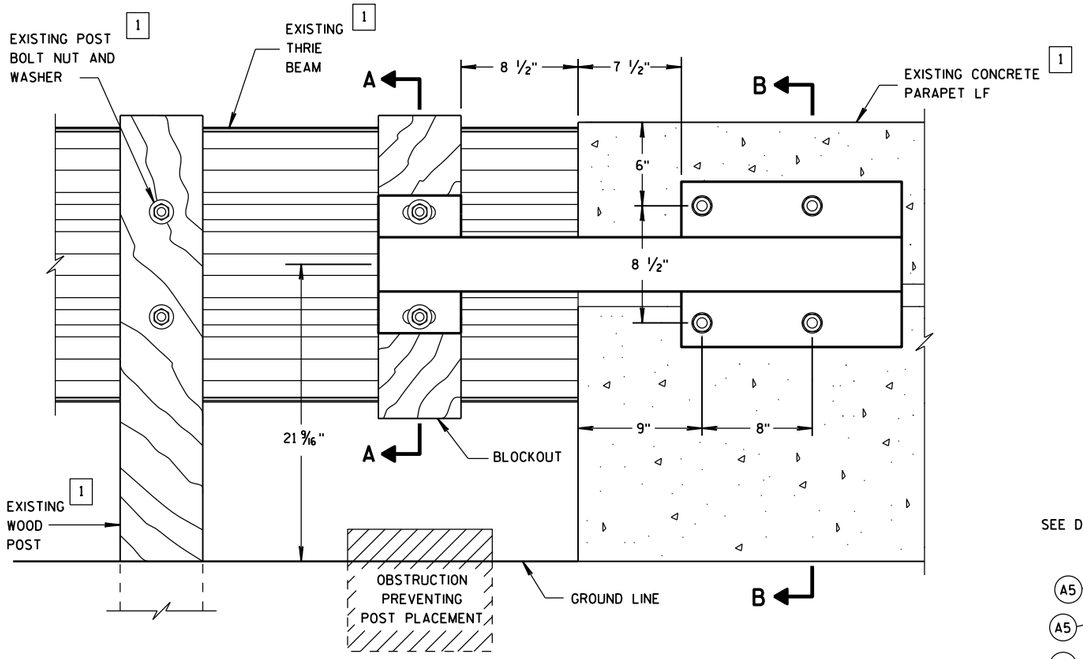
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ELEVATION VIEW (BACKSIDE OF PARAPET)

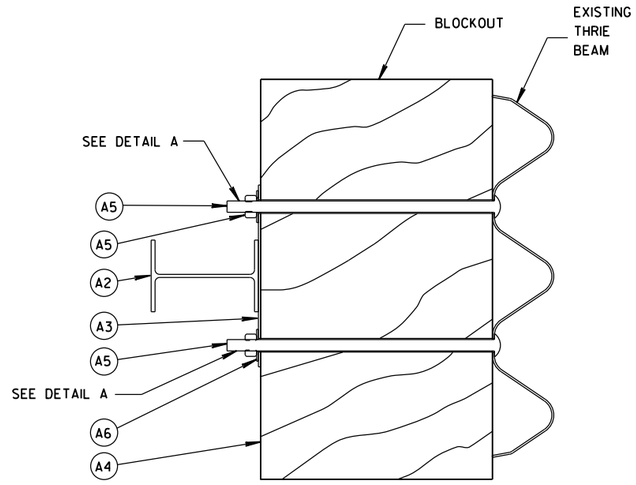
GENERAL NOTES

THE ADHESIVE USED TO SECURE THREADED RODS MUST HAVE MINIMUM BOND STRENGTHS OF 1800 PSI FOR EMBEDMENT SHOWN.

ANY EXISTING THROUGH-BOLT INTERFERING WITH THE PLACEMENT OF THIS COMPONENT SHALL BE REPLACED WITH A SHORTER EPOXED BOLT.

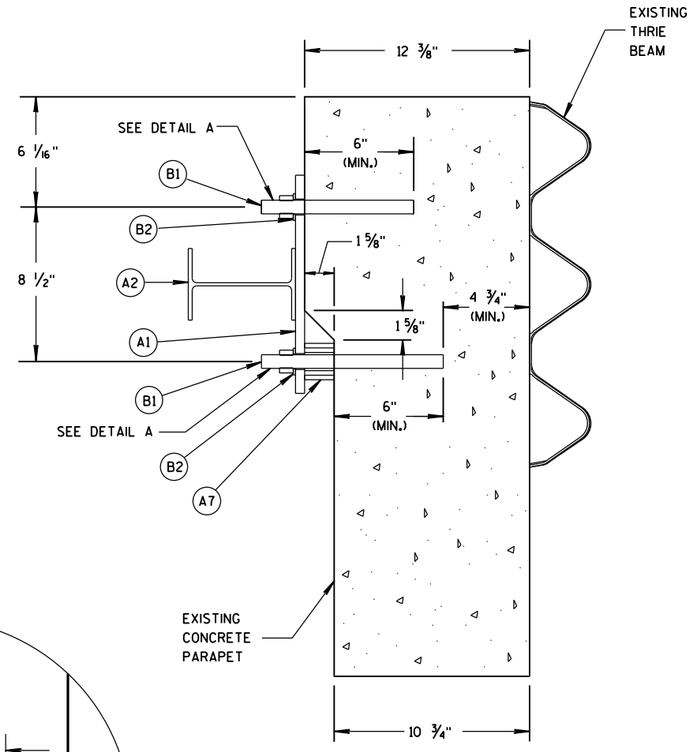
[1] SEE OTHER PARTS OF THE PLAN OR STANDARD SPECIFICATIONS.

[2] TYPICAL BRIDGE PARAPET SHOWN. FOR OTHER RIGID BARRIERS WITH VERTICAL BACK OMIT PART (A7).



SECTION A-A

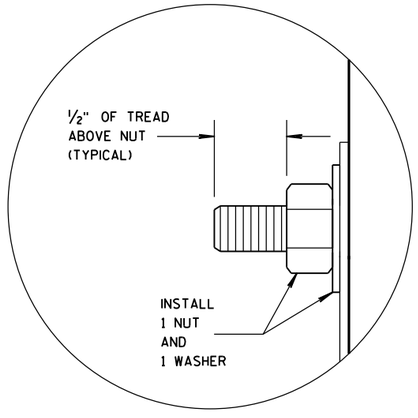
NOTES: THRIE BEAM CONNECTION HARDWARE OMITTED FROM VIEWS FOR CLARITY



SECTION B-B [2]

NOTES: THRIE BEAM CONNECTION HARDWARE OMITTED FROM VIEWS FOR CLARITY.

CONCRETE PARAPET LF RETROFIT BILL OF MATERIALS				
ITEM NO.	QTY.	DESCRIPTION	MATERIAL SPECIFICATION	COMMENTS
(A1)	1	16" x 12" x ½" BASE PLATE	ASTM A572 GR. 50	-
(A2)	1	38" LONG W6x9 BEAM	ASTM A992 GR. 50	-
(A3)	1	6" x 10" x ⅛" BACKUP PLATE	ASTM A36	-
(A4)	1	6" x 12¾" x 22" BLOCKOUT	[1]	-
(A5)	2	⅝" DIA. POST BOLT AND DOUBLE RECESSED (DR) HEAVY HEX NUT	[1]	-
(A6)	2	⅝" DIA. FLAT WASHER	GRADE 5	-
(A7)	3	2" x 2" x ¼" SQUARE TUBE 1 5/8" LONG	ASTM A36	MULTIPLE ¾" DIA. FLAT WASHERS (B2) CAN BE USED
(B1)	4	¾" DIA. - 10 UNC THREADED ROD	ASTM A193 TYPE B7	-
(B2)	4	¾" DIA. FLAT WASHER	ASTM F436	-
(B3)	4	¾" DIA. DOUBLE RECESSED (DR) HEAVY HEX NUT	[1]	-

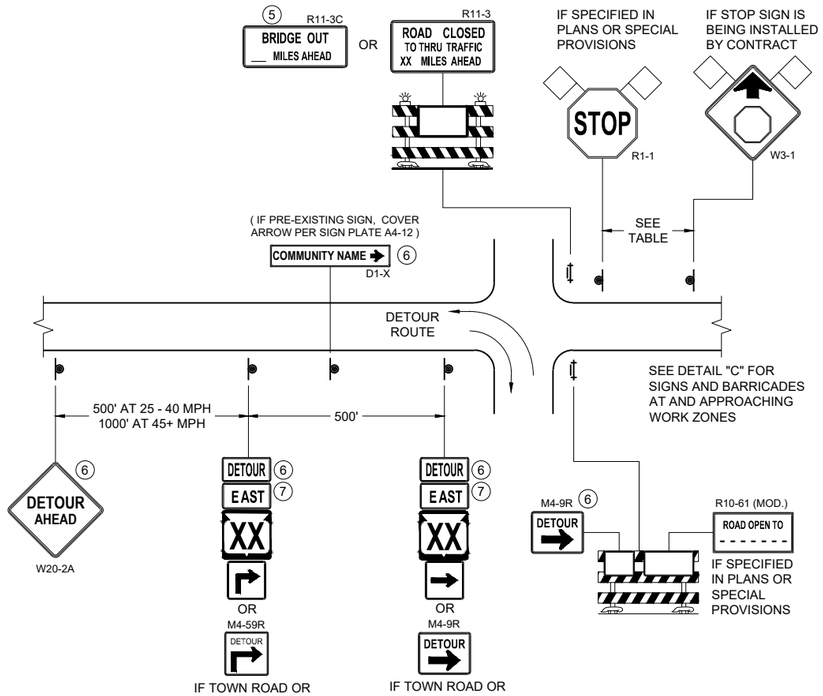


DETAIL A

RETROFIT CANTILEVER BLUNT END

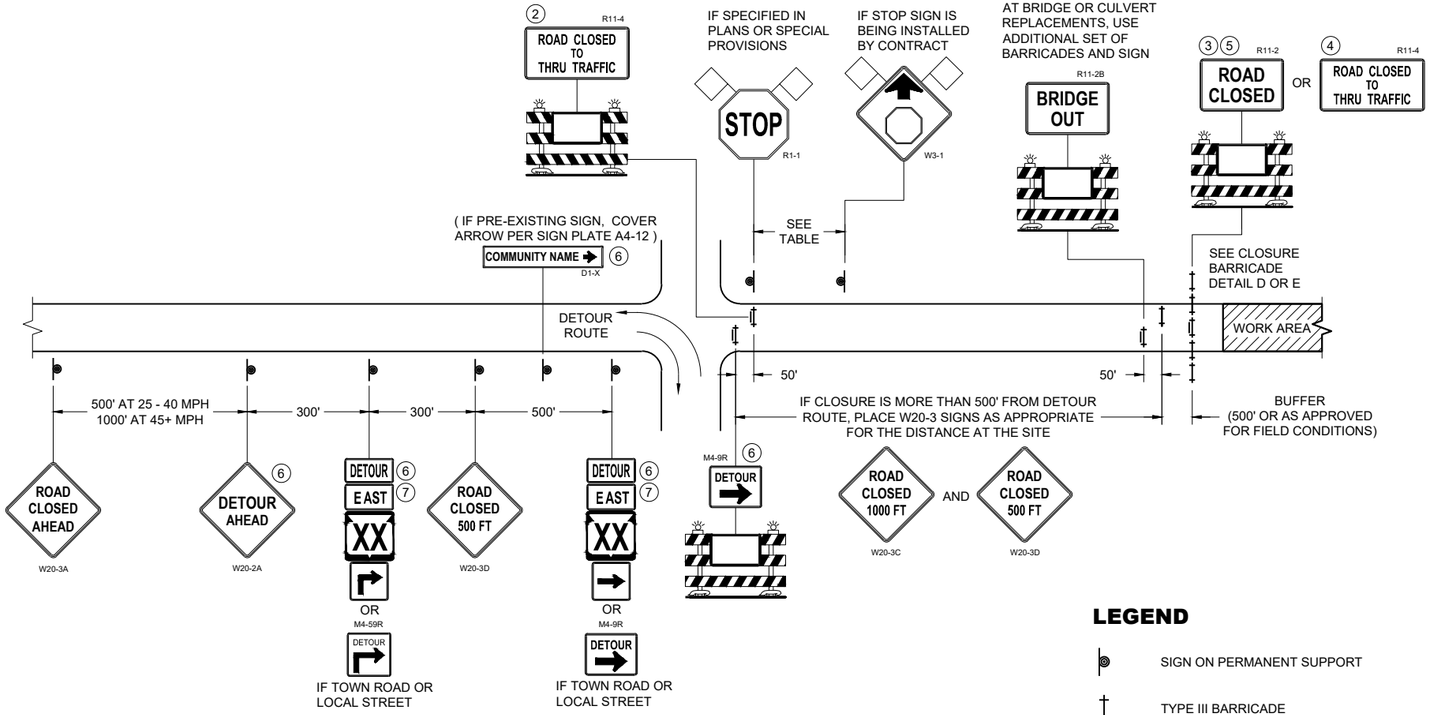
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DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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)

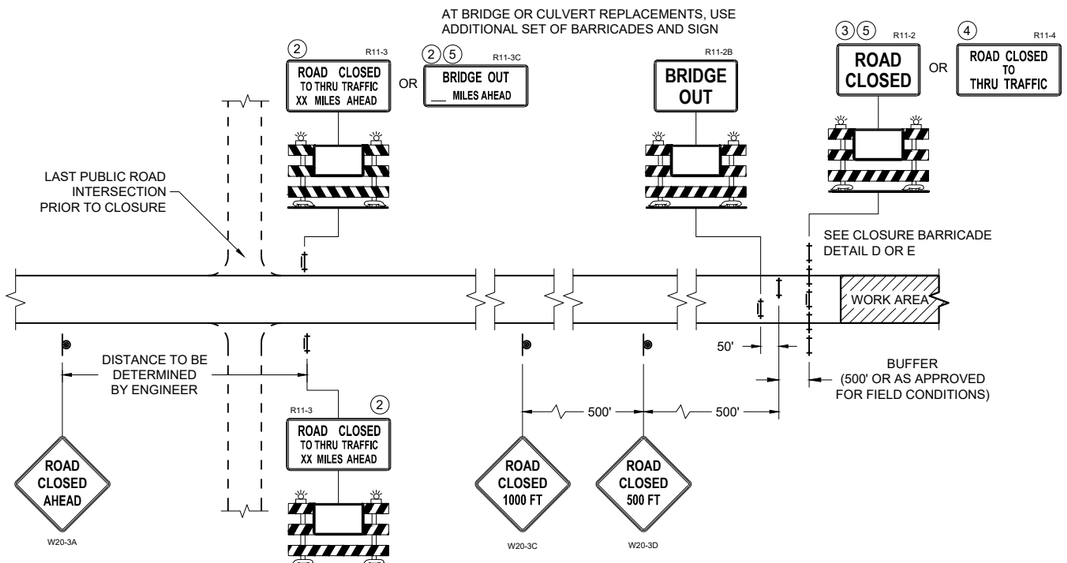
SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

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



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

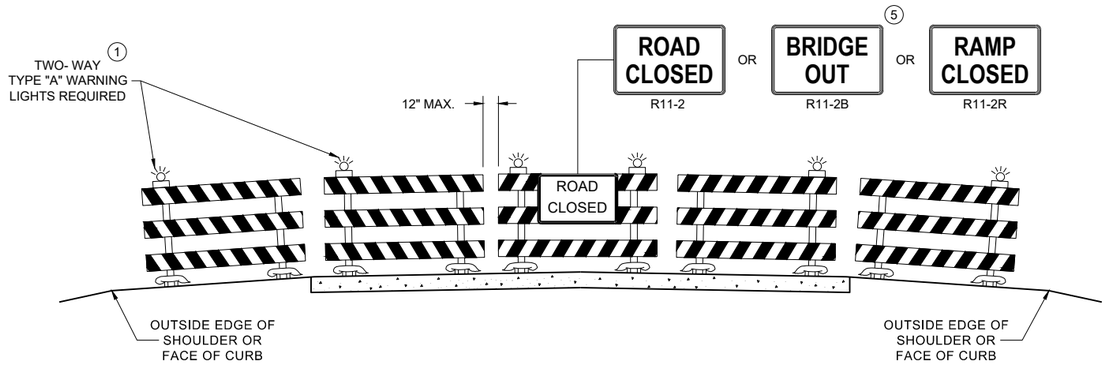
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

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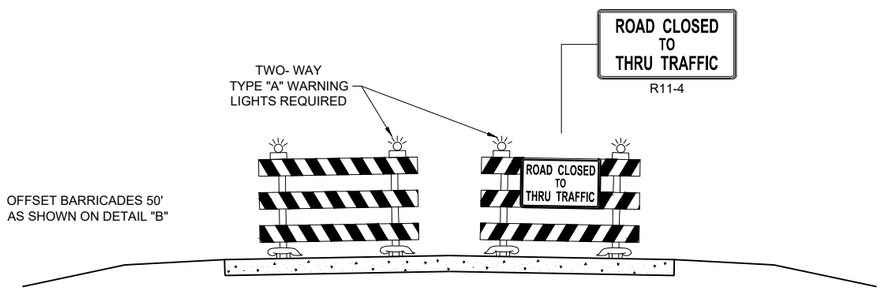
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SDD 15C02-10a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

PARTIAL NUMBERS ON SIGNS SHALL BE DISPLAYED AS A WHOLE NUMBER(AS NEEDED) FOLLOWED BY A FRACTION. SIGNS SHALL NOT DISPLAY NUMBERS IN DECIMAL FORM.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

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

SIGNS PLACED ON TYPE III BARRICADES THAT ARE SIZES OTHER THAN 48"X30" SHALL HAVE A CORRUGATED POLYPROPYLENE OR POLYETHYLENE PLASTIC SIGN BASE.

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

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SDD 15C02-10b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR M4 - 8
- EAST M3 - X
- XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

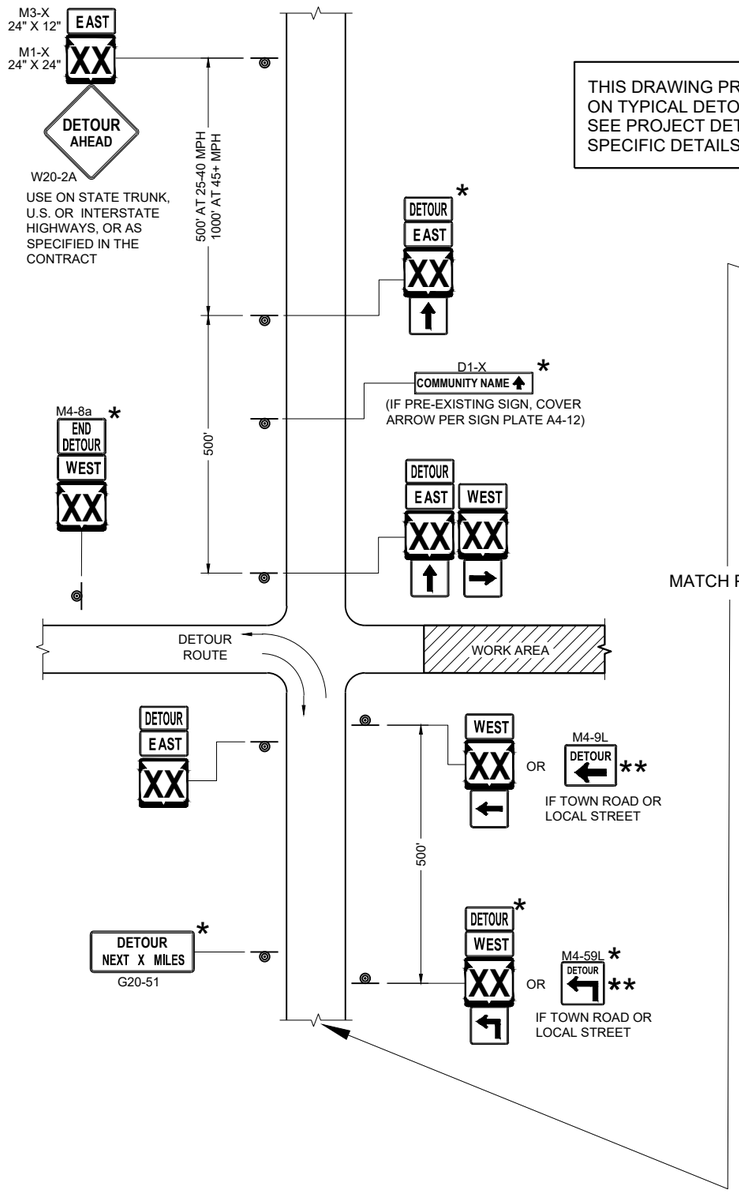
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

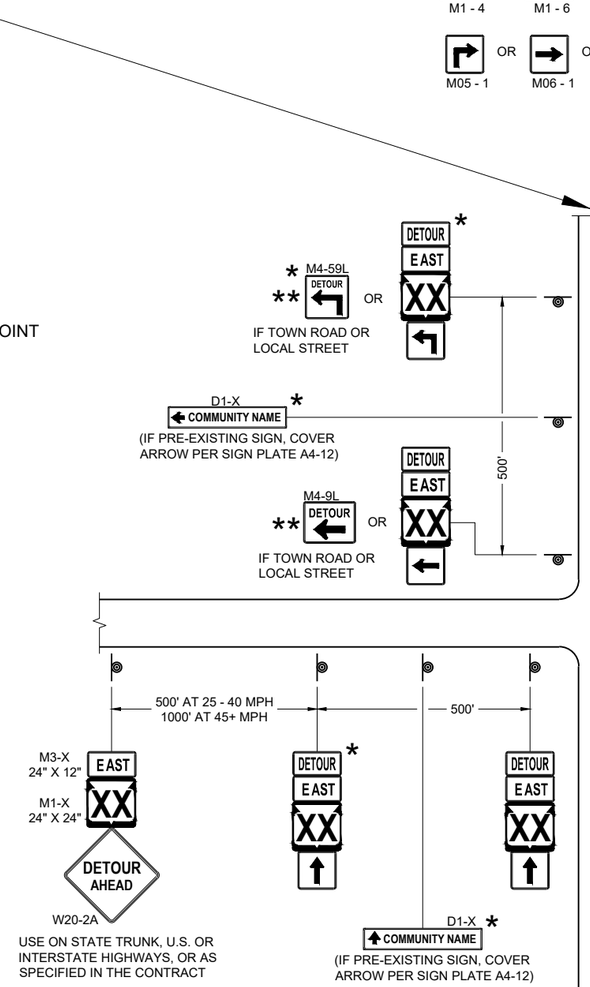
SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.





SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

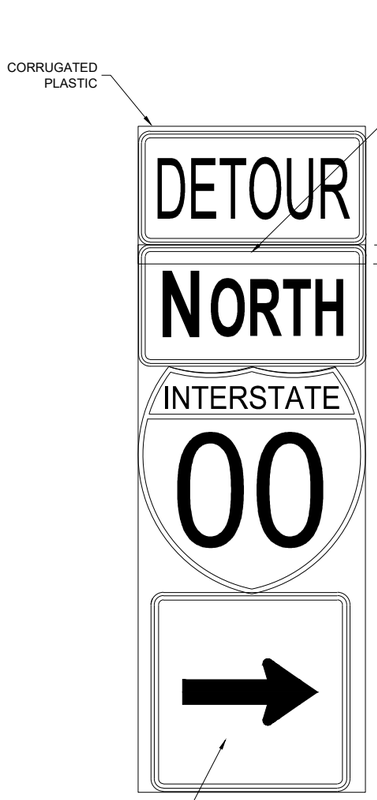
APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

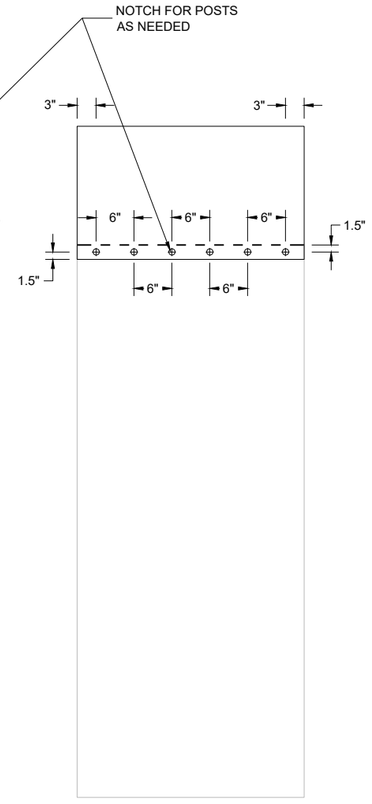
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SDD 15C02-10c

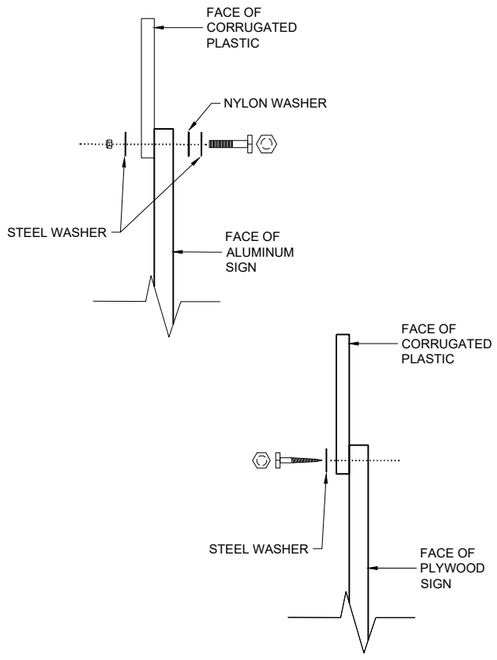
FRONT SIDE



BACK SIDE



SIDE VIEW



GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3.
B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
1-1/4" O.D. x 3/8" I.D. x .080 NYLON

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15C02-10h

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

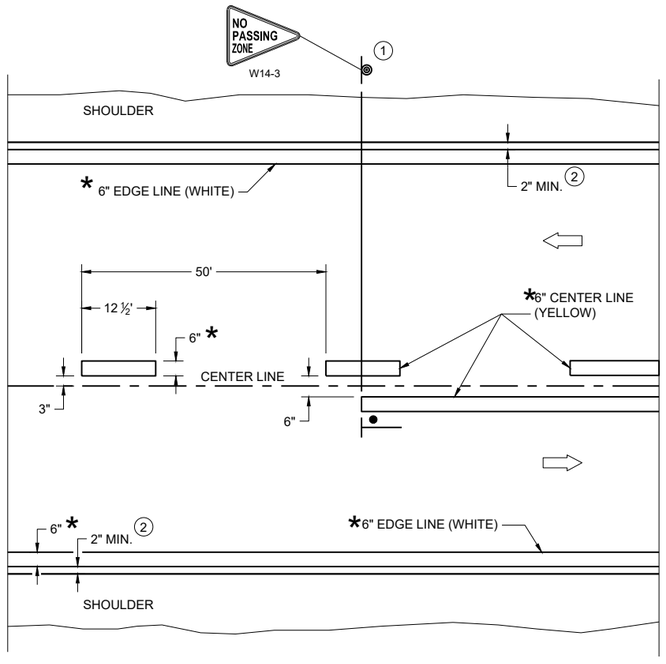
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

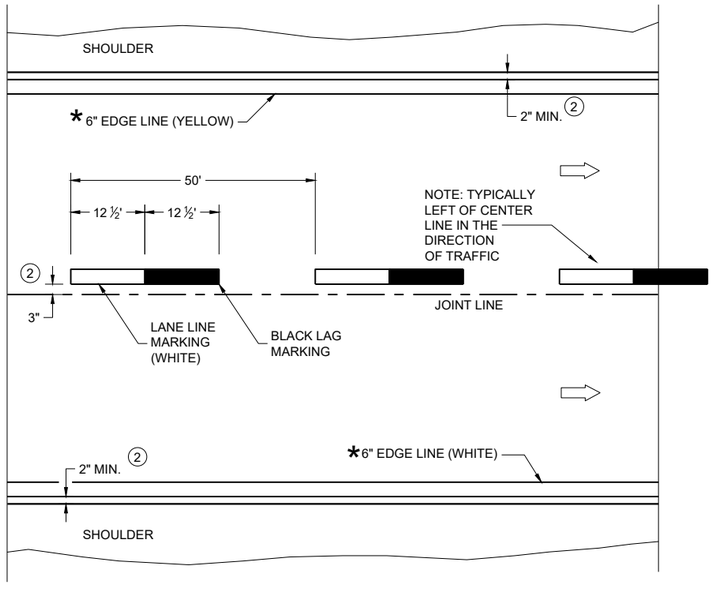
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

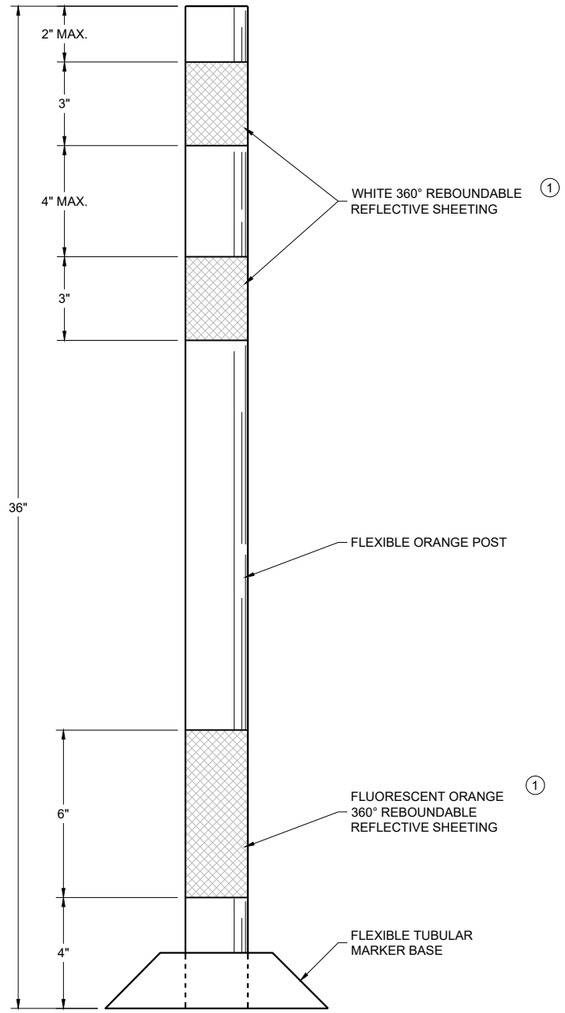
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

SDD 15C08-24a



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.

CHANNELIZING DEVICES
FLEXIBLE TUBULAR
MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

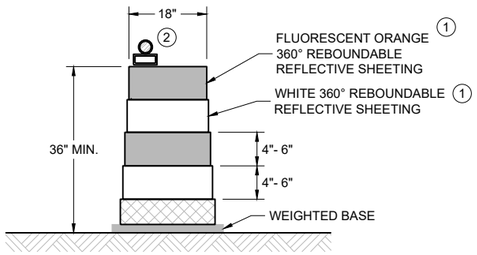
SDD 15C11-11a

SDD 15C11-11a

GENERAL NOTES

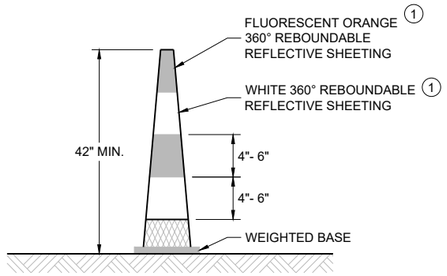
(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

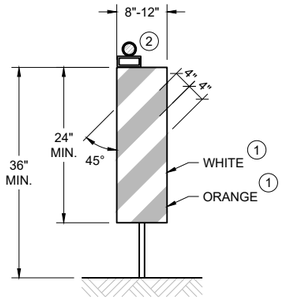
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

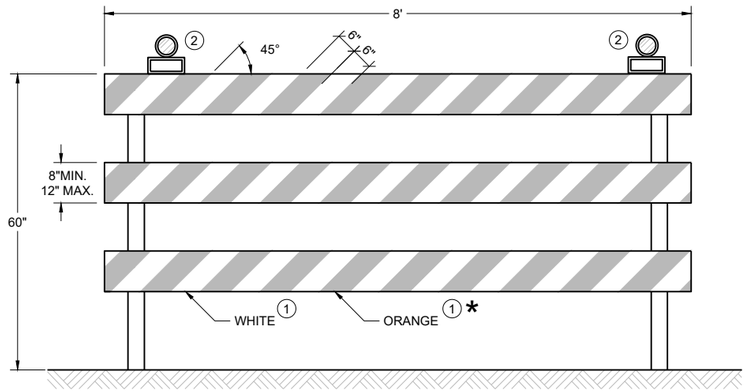
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

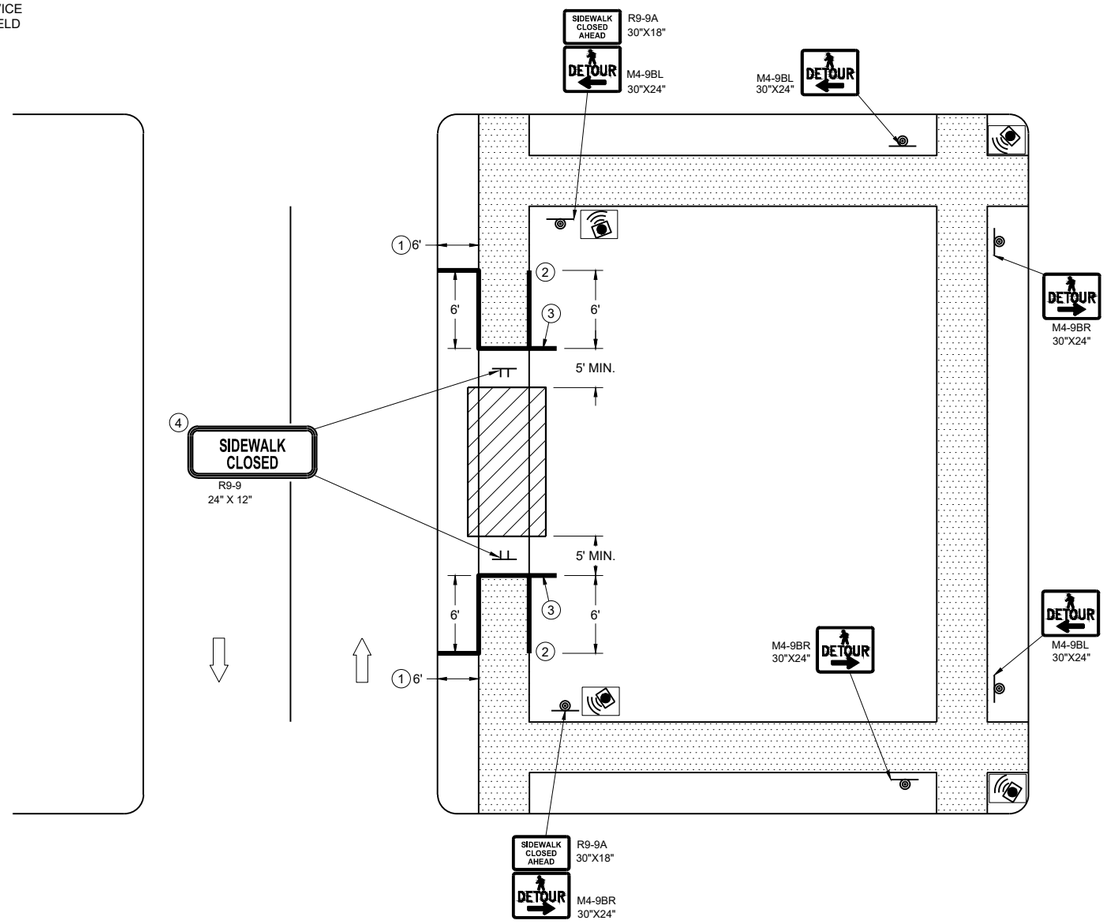
APPROVED
February 2026 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15C11-11b

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

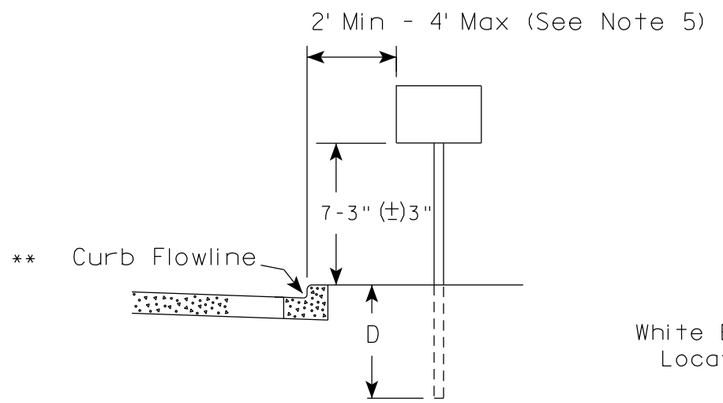
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

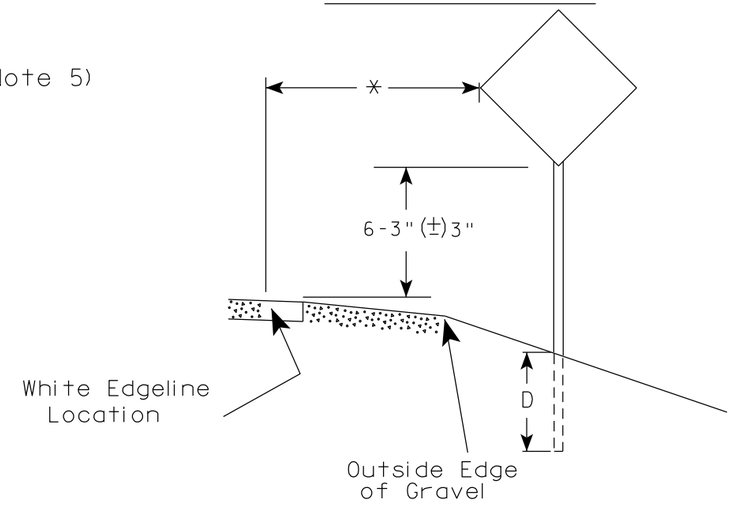
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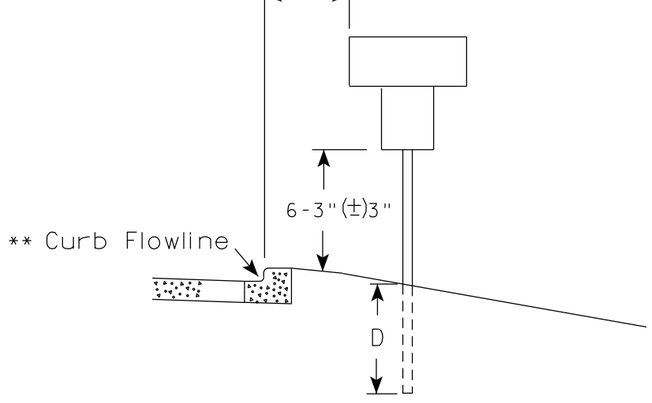
SDD 15D30-12f

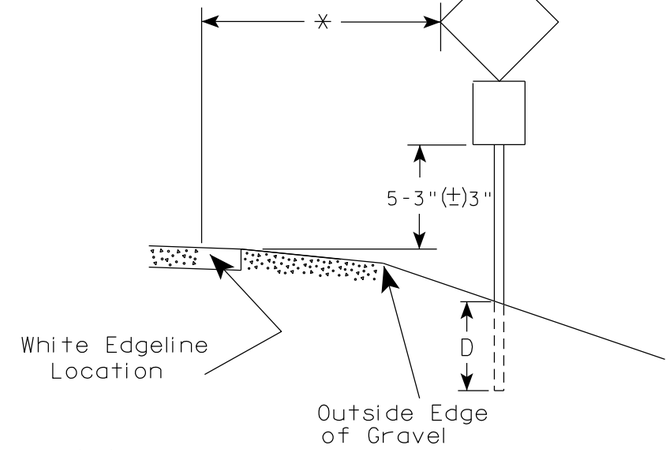
URBAN AREA



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.

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.

POST EMBEDMENT DEPTH

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

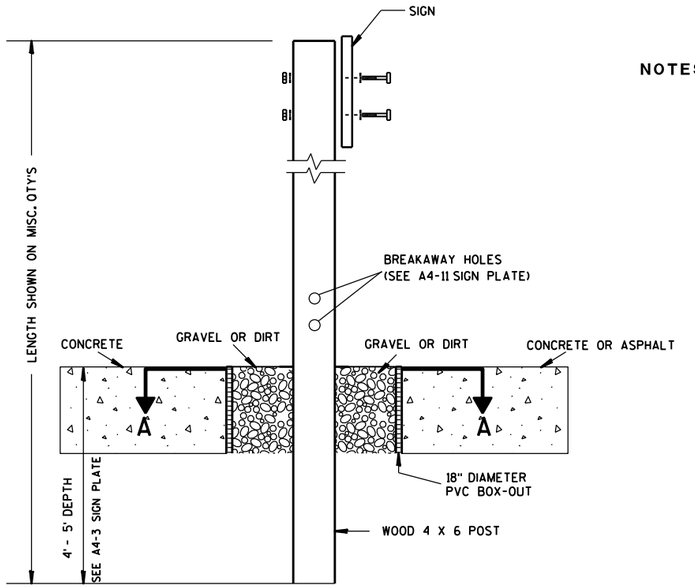
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

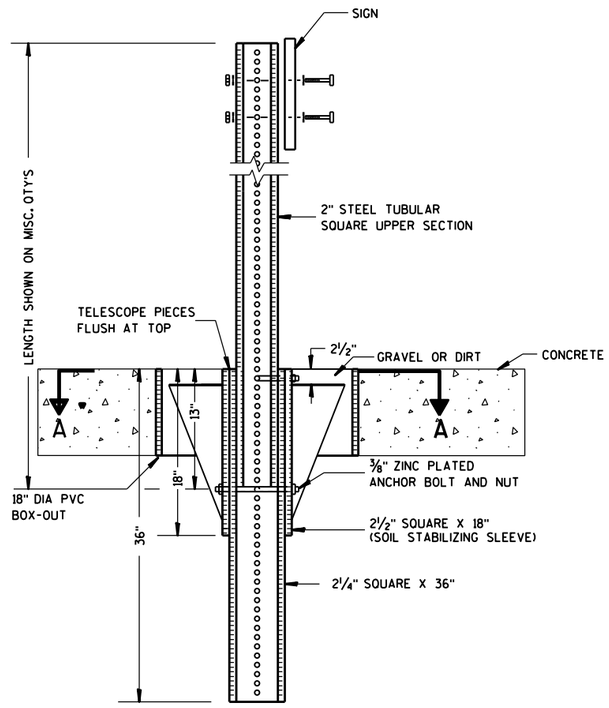
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 47	E



ELEVATION VIEW

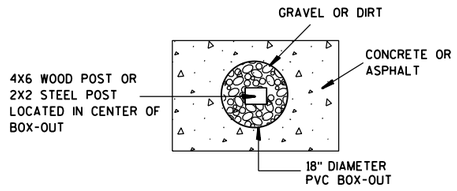
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

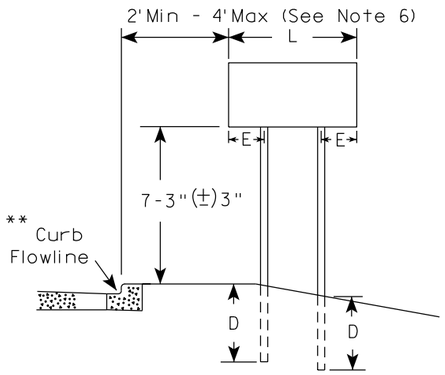
APPROVED Matthew R Rauch
for State Traffic Engineer

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

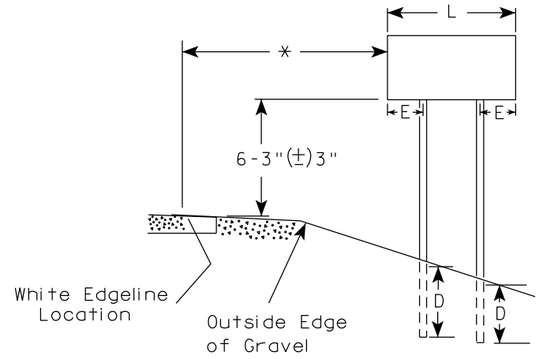
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

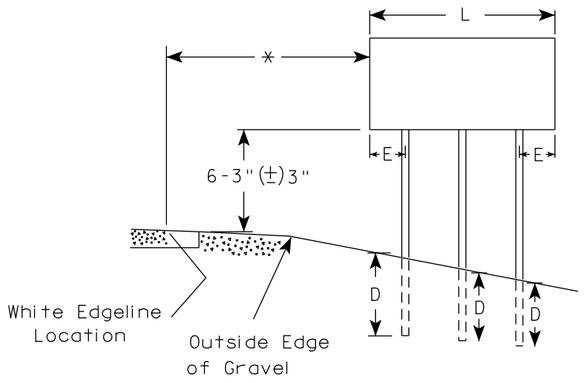
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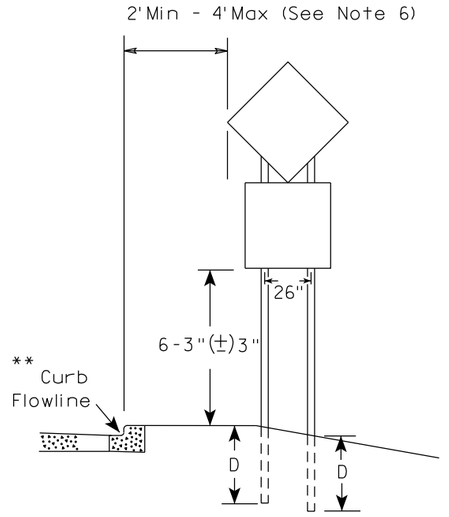
URBAN AREA



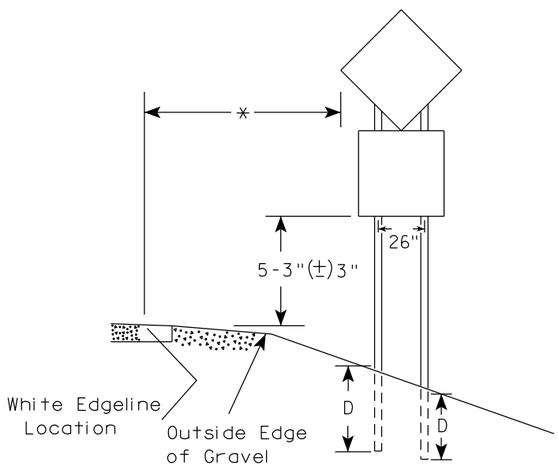
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

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

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

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

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

POST EMBEDMENT DEPTH

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

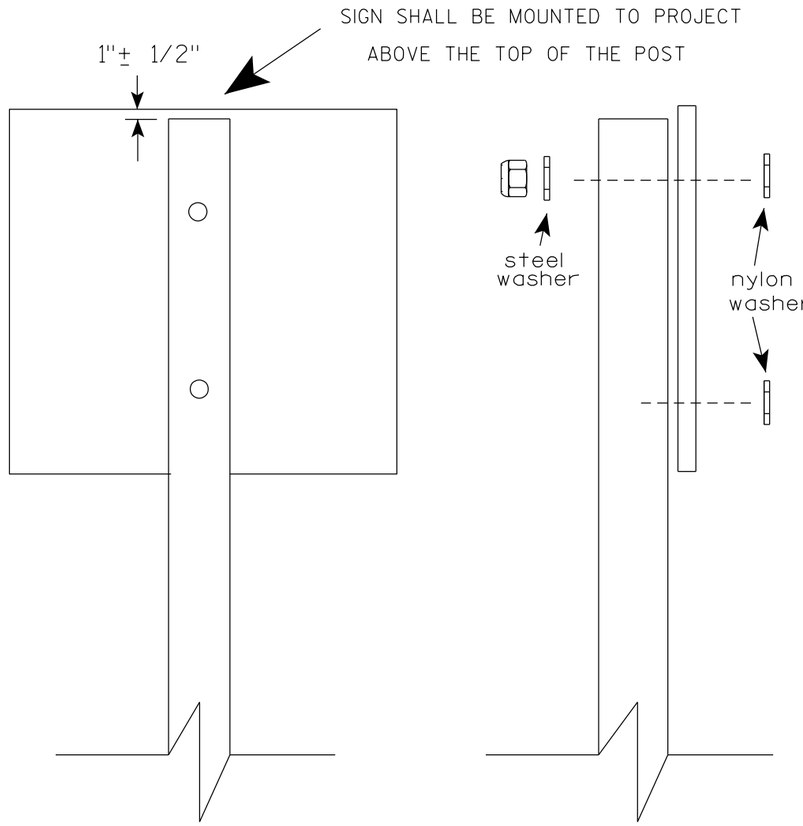
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

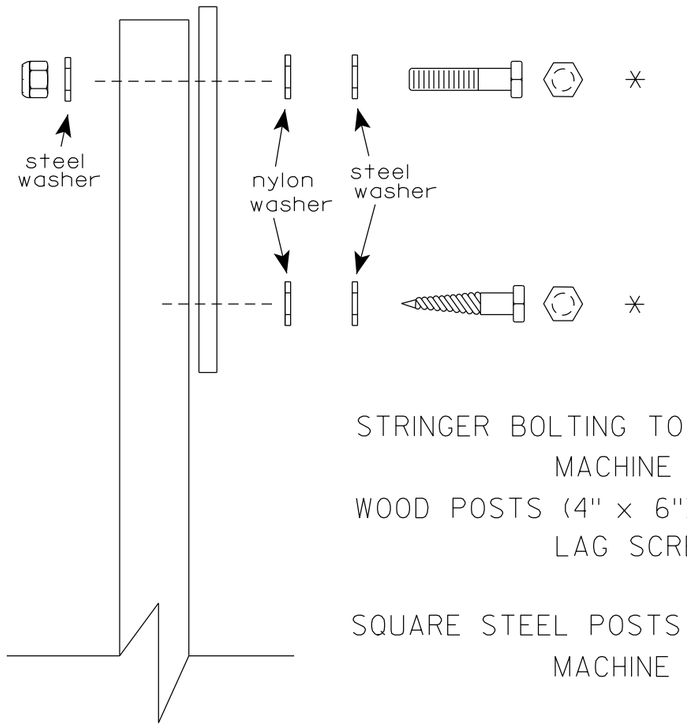
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 49	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

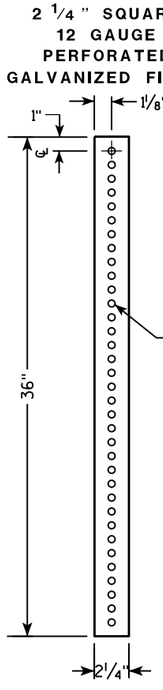
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

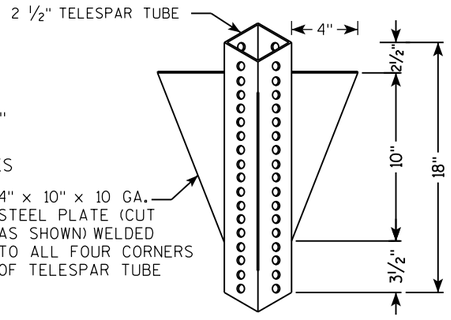
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

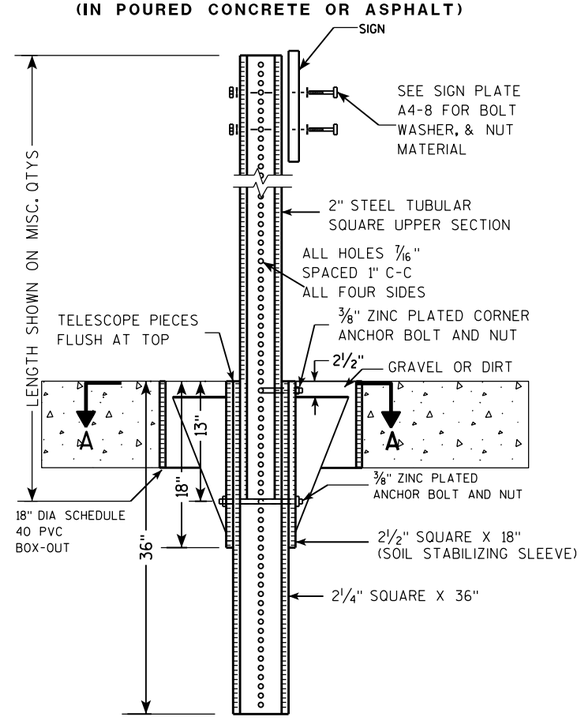
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



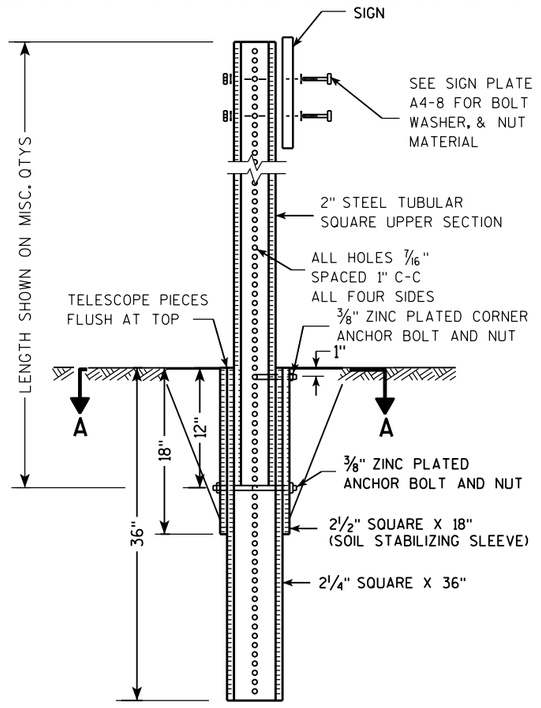
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

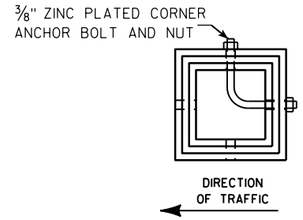


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

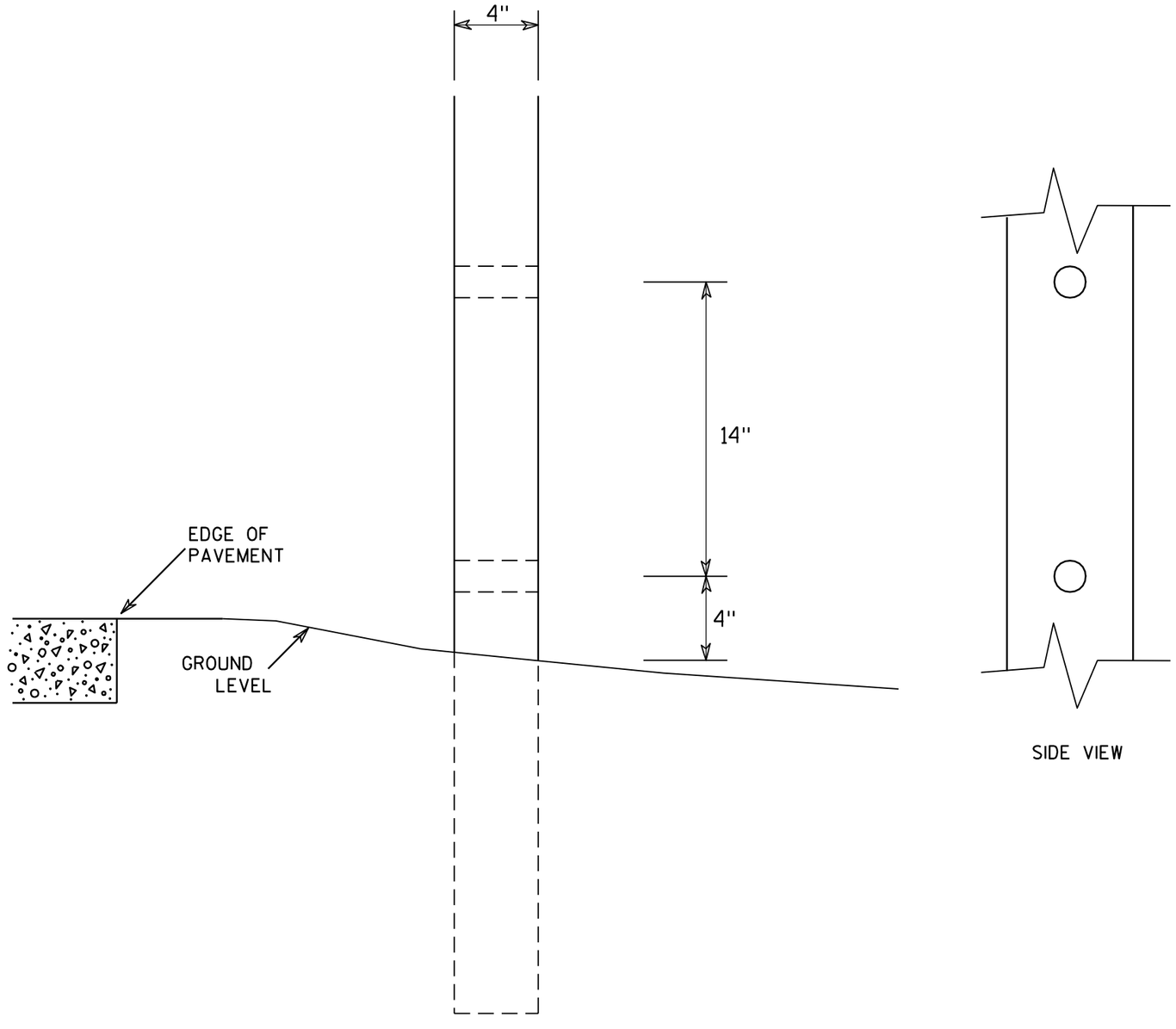
WISCONSIN DEPT OF TRANSPORTATION

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

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4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

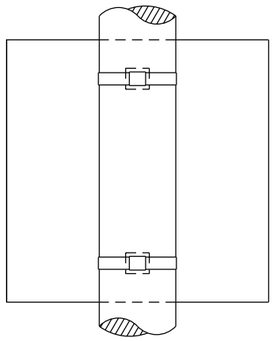
APPROVED Chester J Spang
for State Traffic Engineer

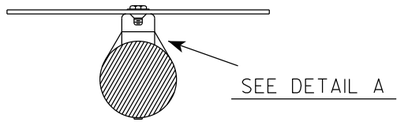
DATE 3/27/97 PLATE NO. A4-11.2

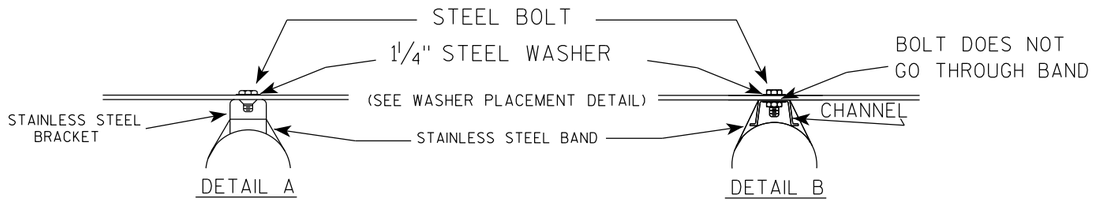
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 52	E

BANDING

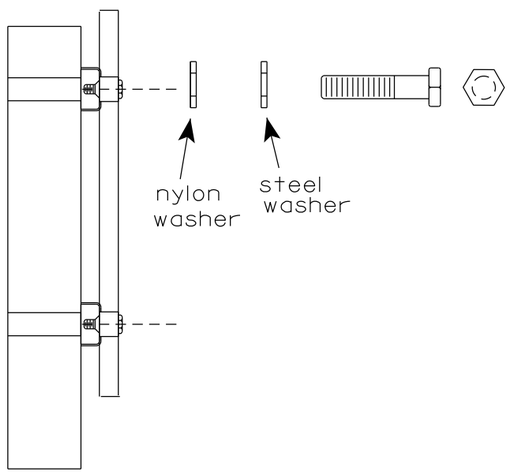
SINGLE SIGN







WASHER PLACEMENT

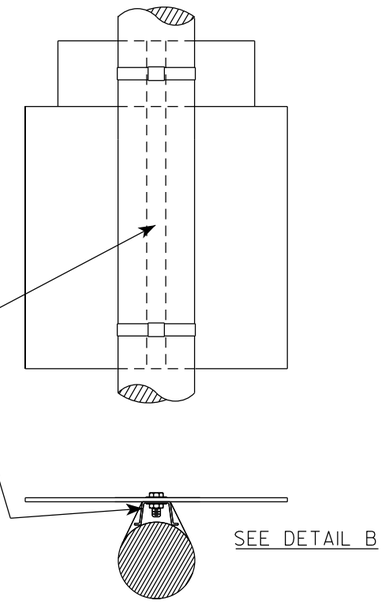


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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

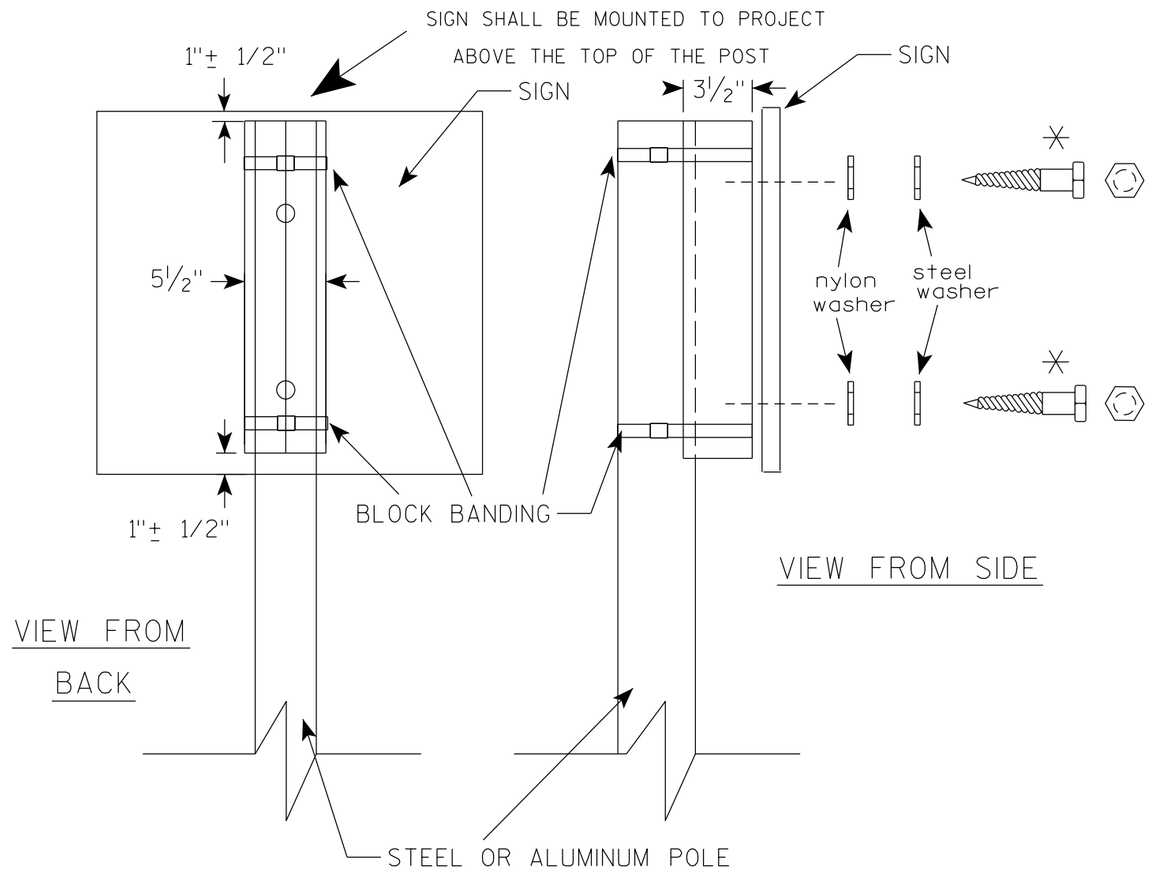
DATE 6/10/19 PLATE NO. A5-9.4

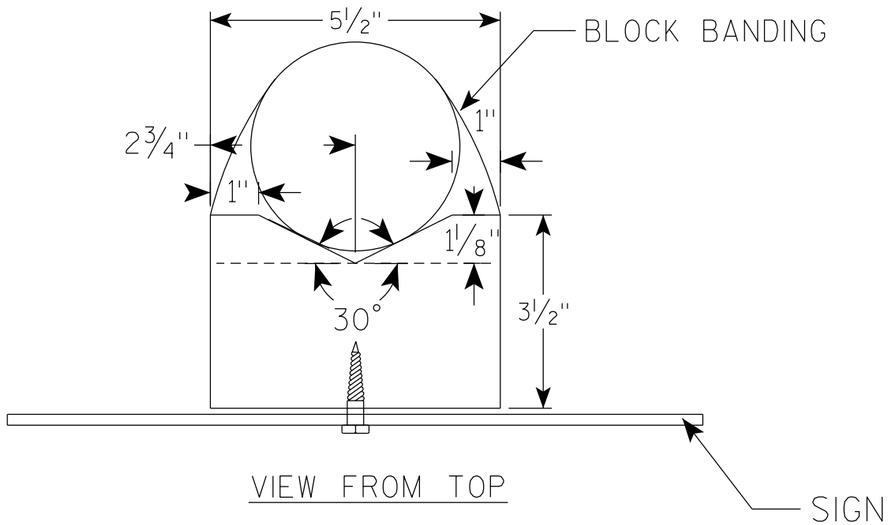
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 53	E

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

7

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GENERAL NOTES

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

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

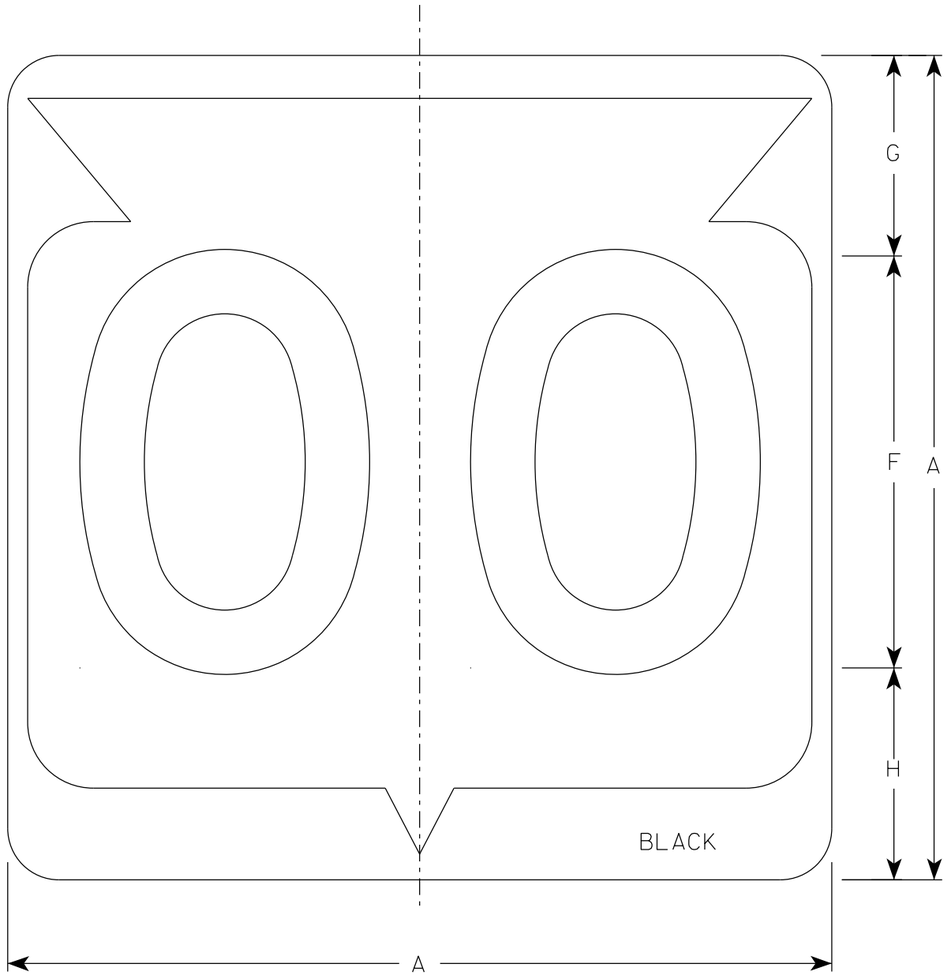
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

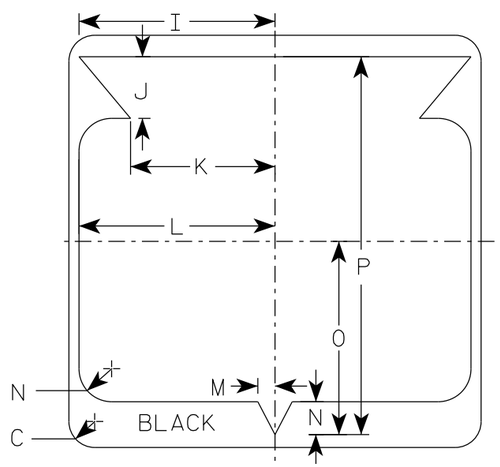
SHEET NO: 54 E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

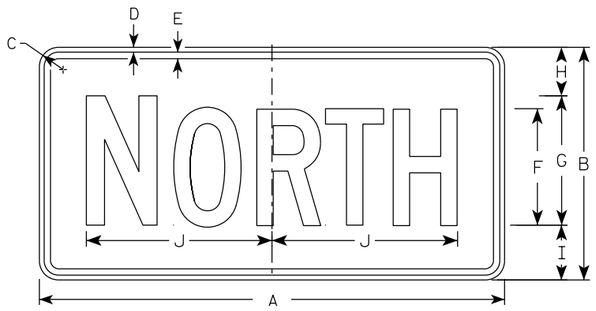
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

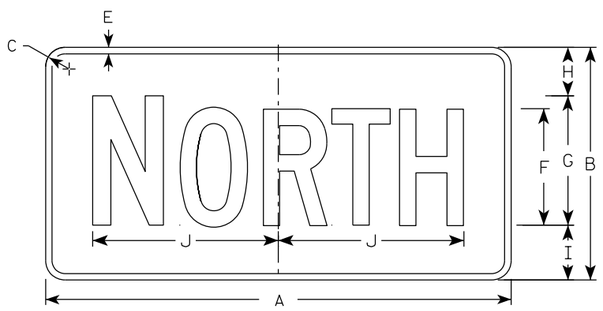
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

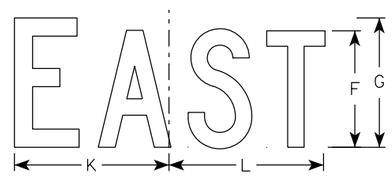
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 55	E



M3-1
MM3-1
MP3-1



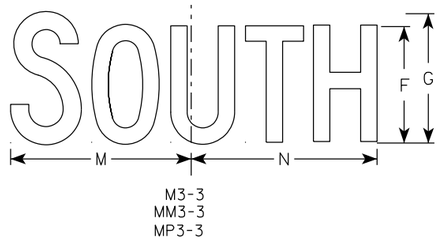
MB3-1
MK3-1
MN3-1



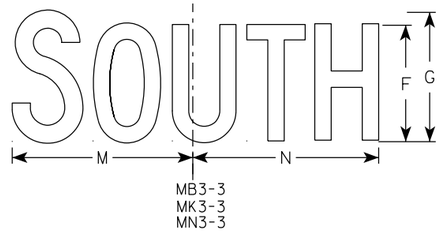
M3-2
MM3-2
MP3-2



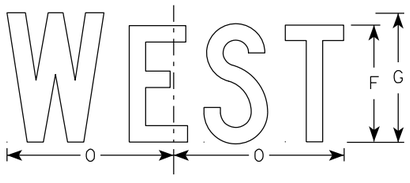
MB3-2
MK3-2
MN3-2



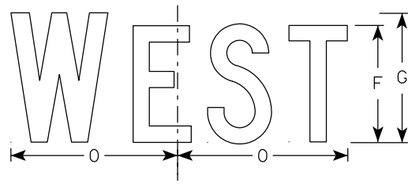
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

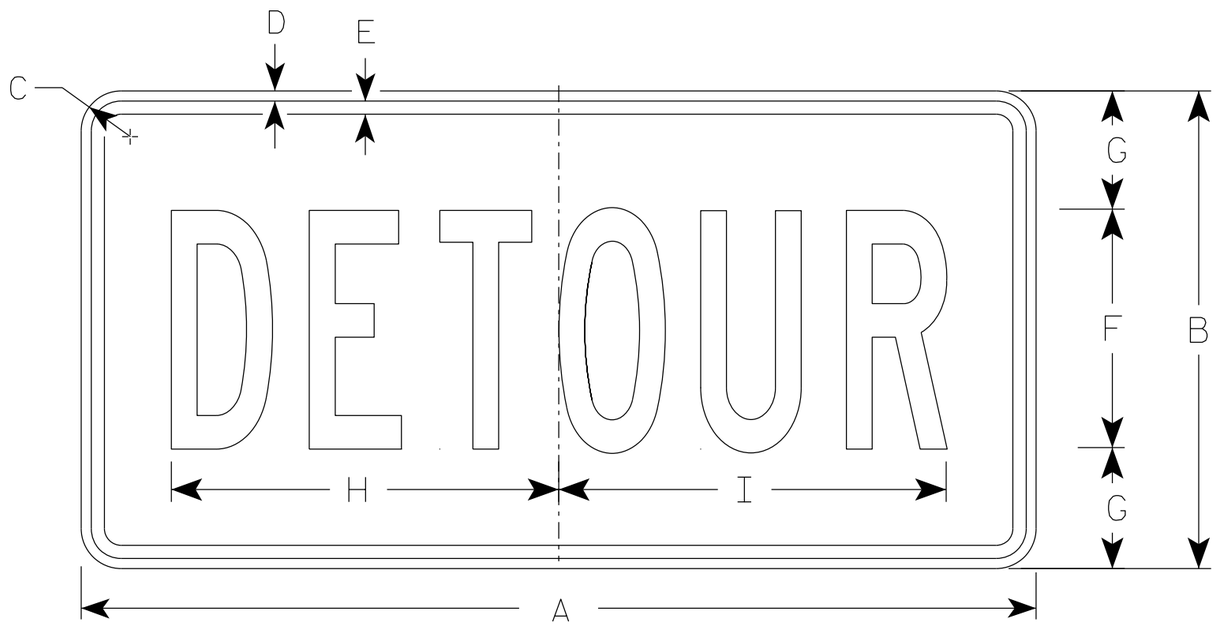
DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 56 | E

7

NOTES

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



M4-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

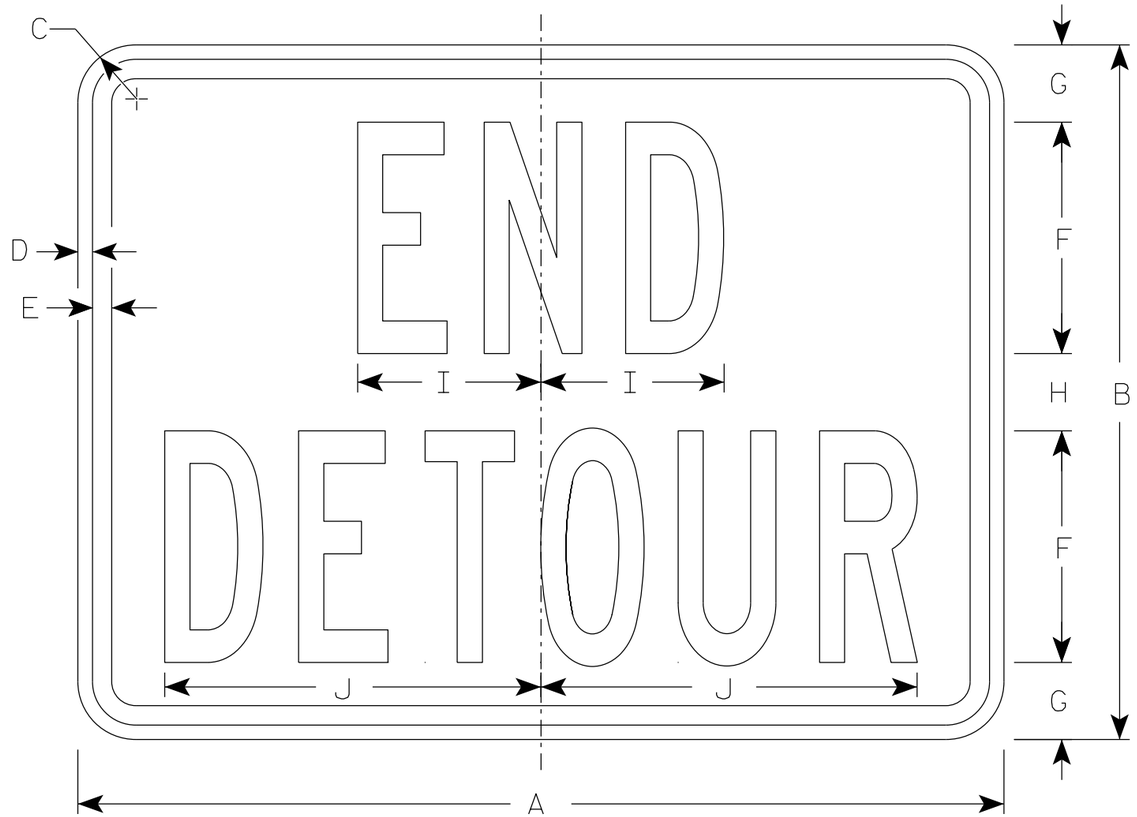
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 57	E



M4-8A

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

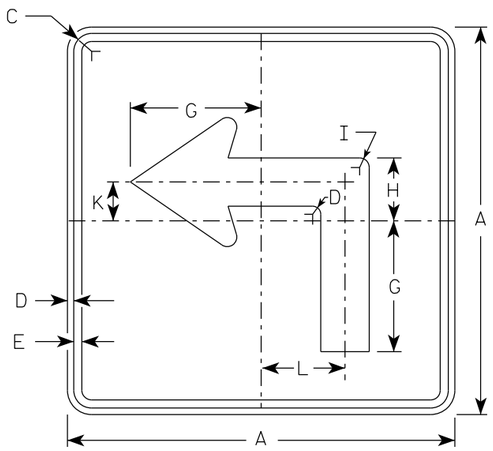
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

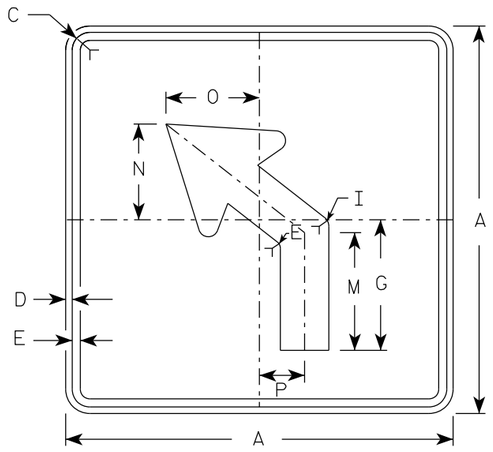
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

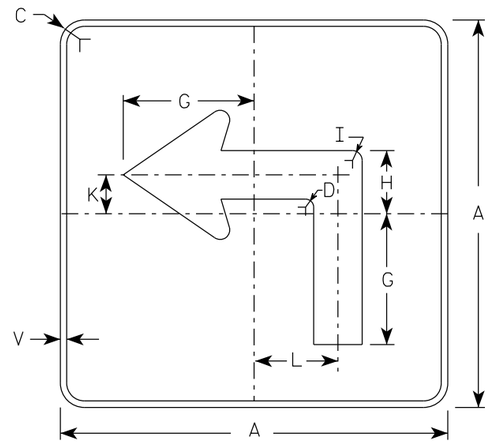
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 58 | E



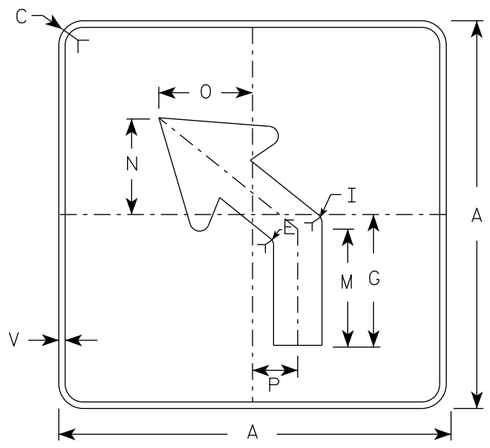
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

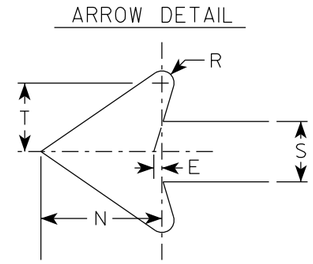


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

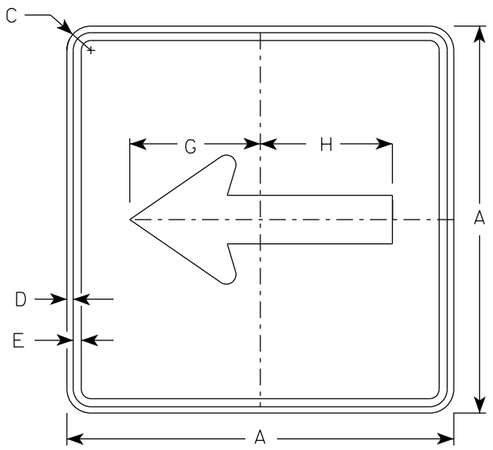
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

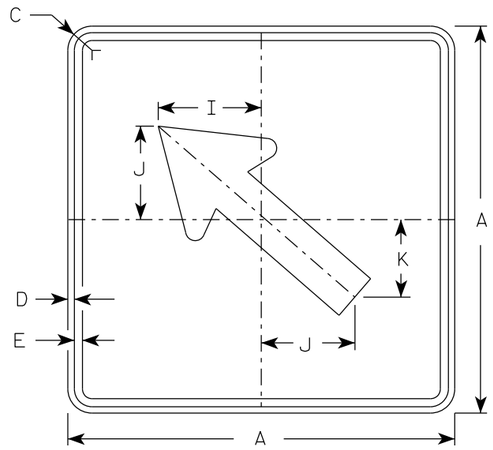
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

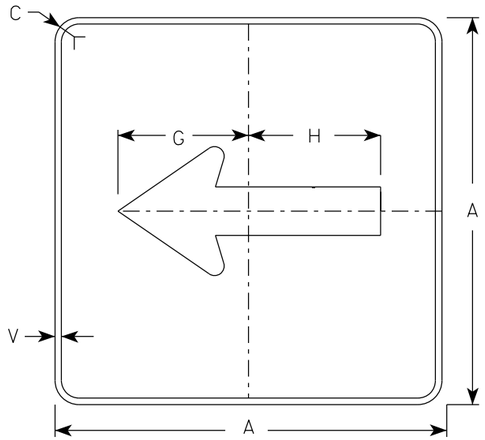
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 59 | E



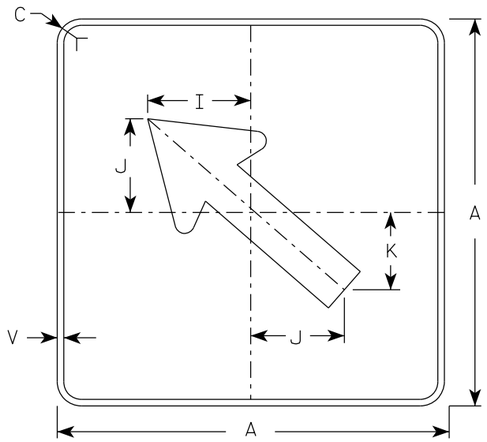
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

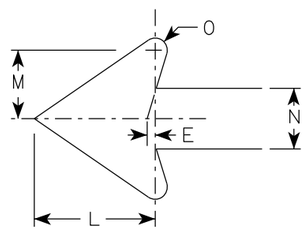


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

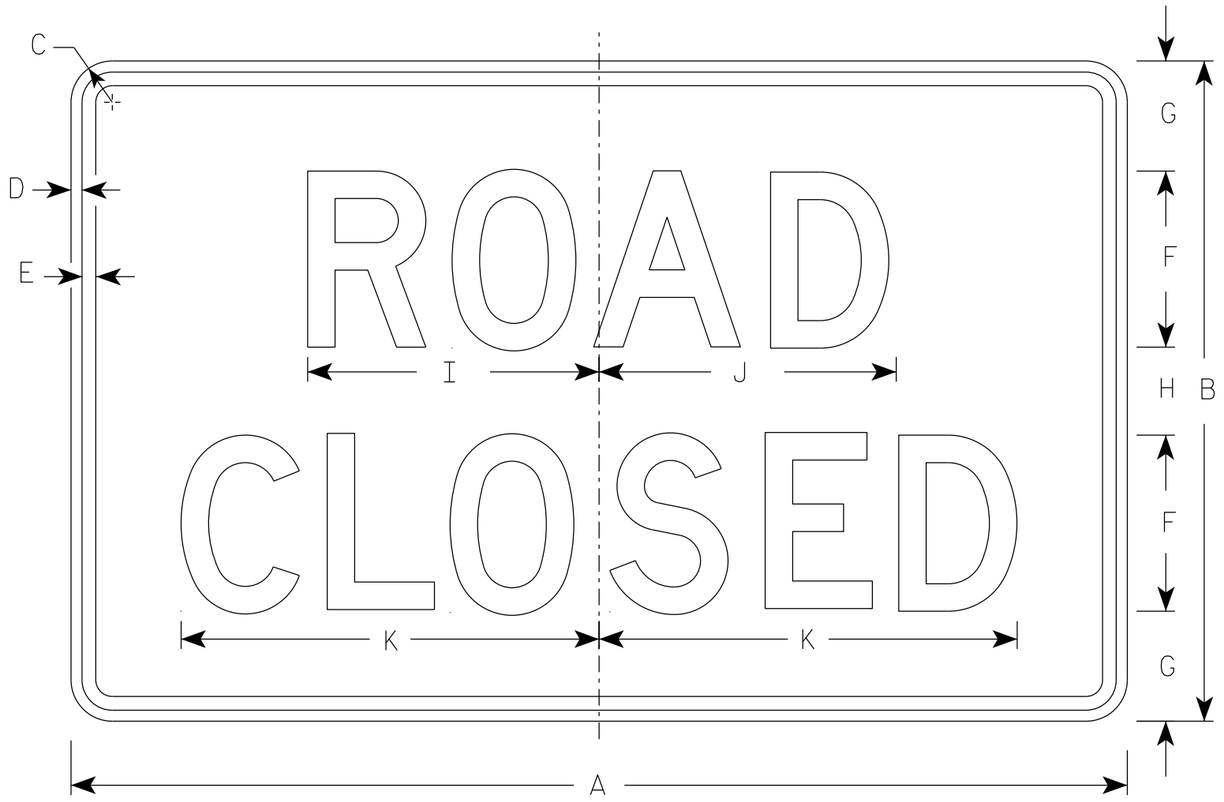
STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

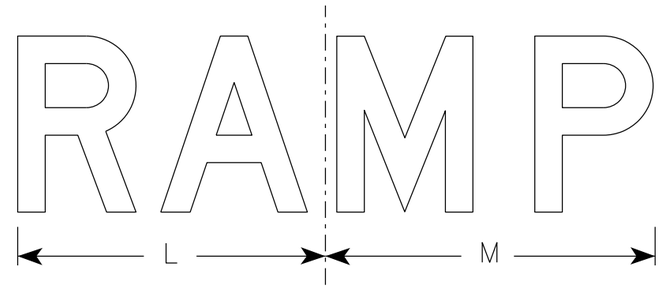
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 60 | E



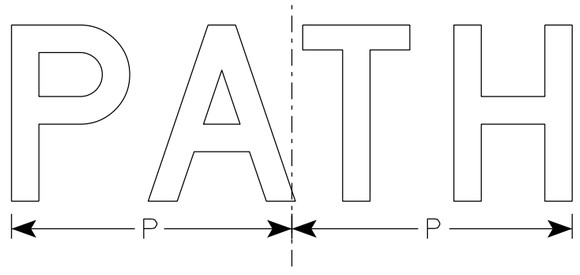
R11-2

NOTES

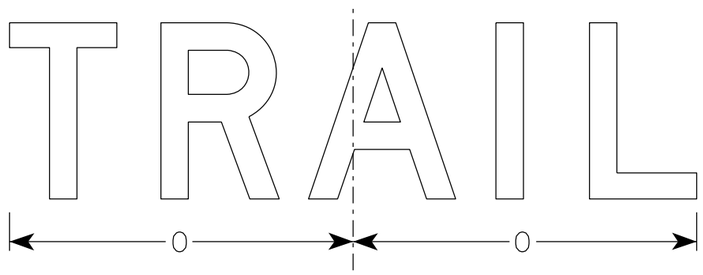
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the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



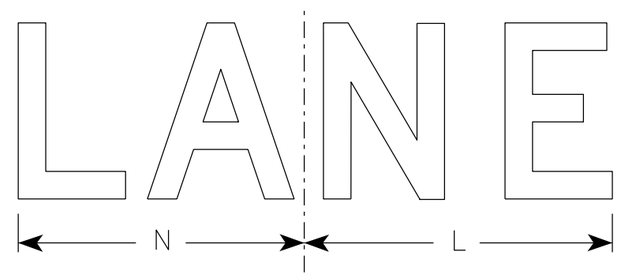
R11-2R



R11-2C



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

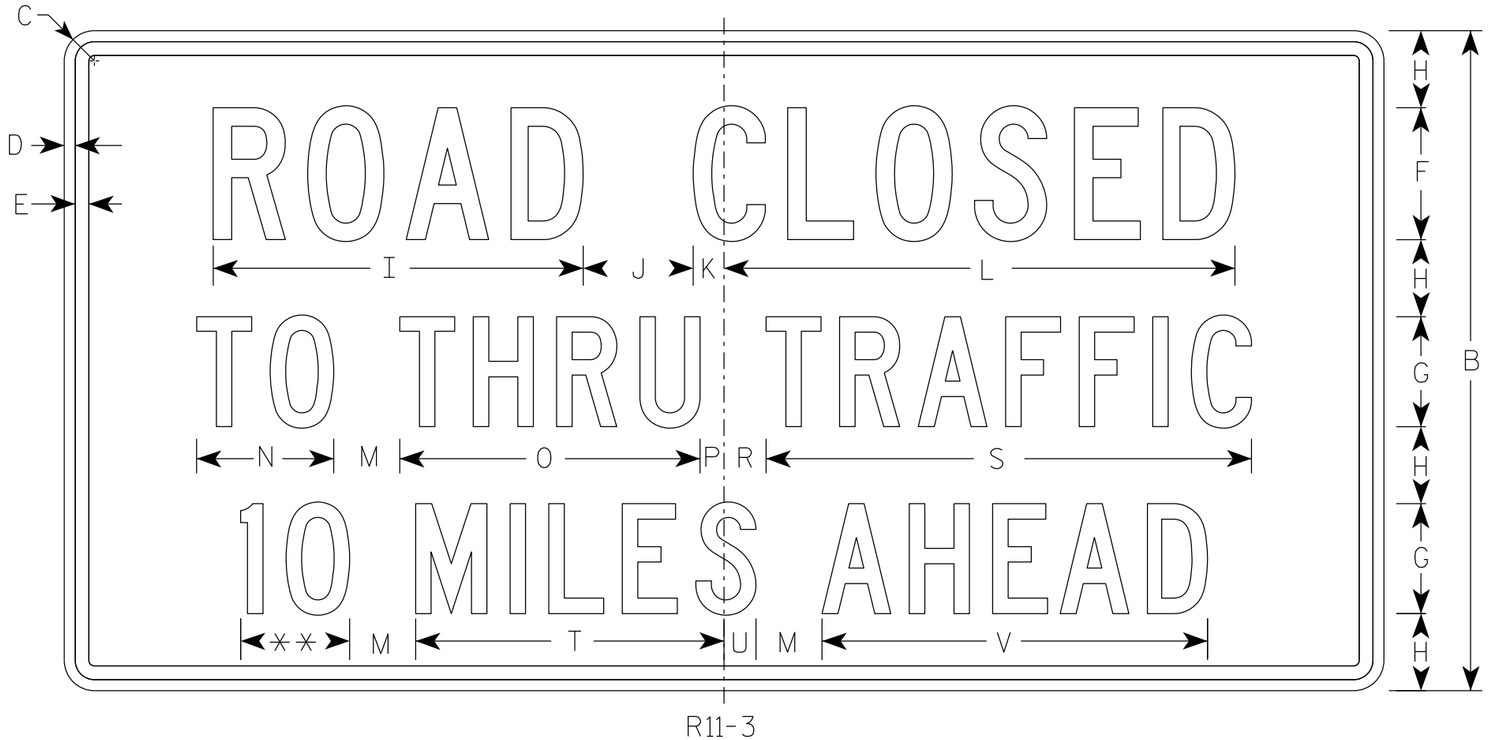
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/3/26 PLATE NO. R11-2.13

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

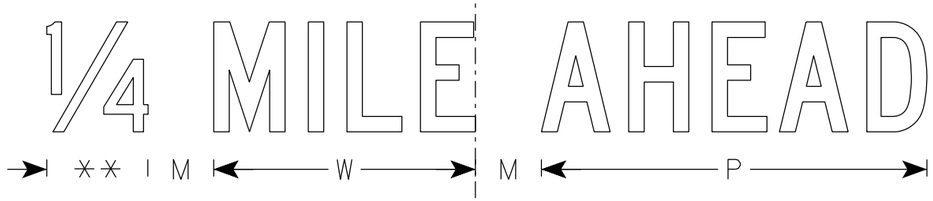
NOTES

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.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

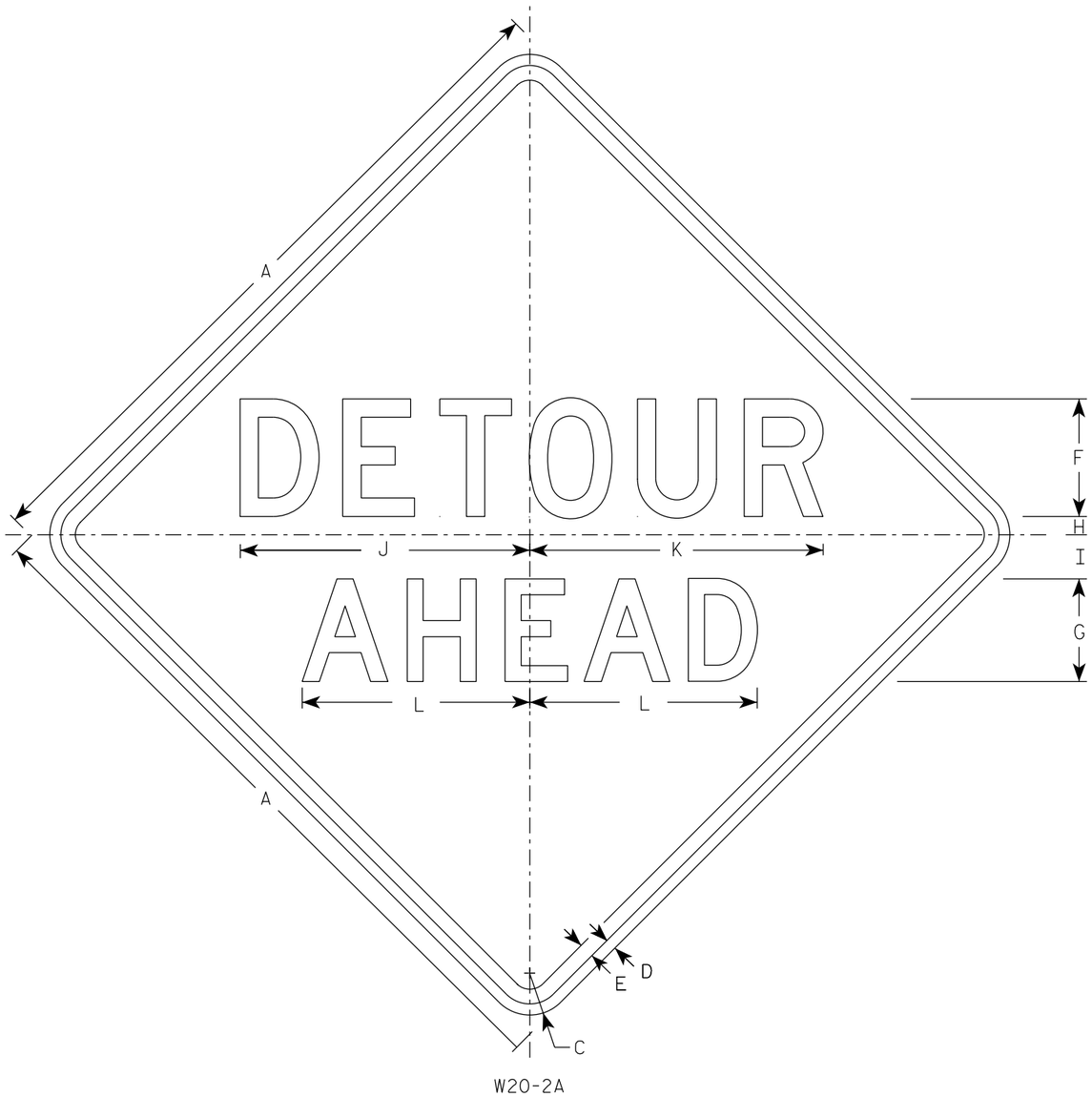
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

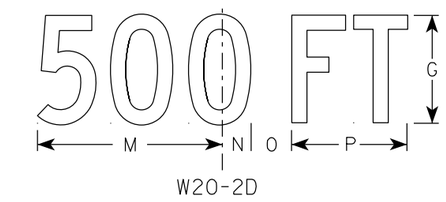
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-3.10

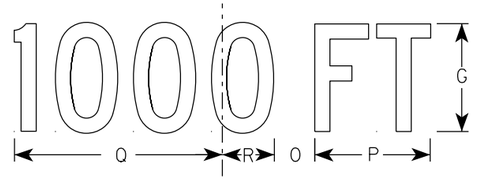
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 62 | E



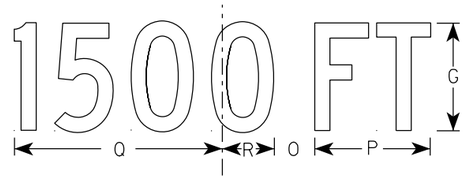
W20-2A



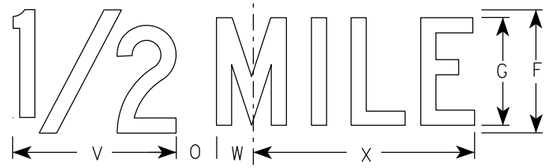
W20-2D



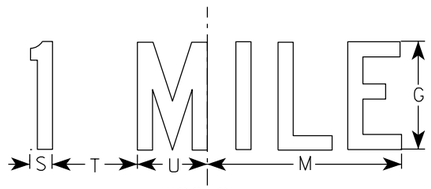
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

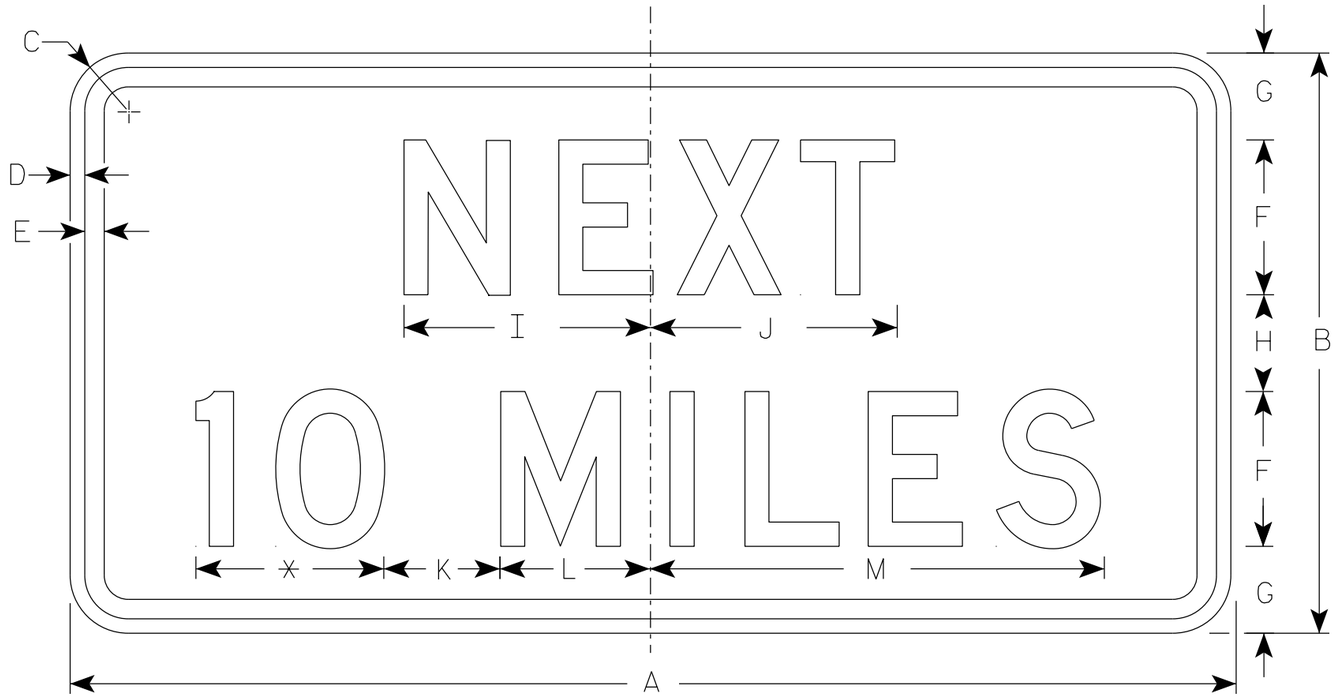
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W57-51

* See note 4

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/2	3/8	3/8	3	2 1/4	1 1/2	5	5 1/8	3	2 3/4	9 5/8														2.0
2S	30	15	1 1/2	3/8	1/2	4	2 1/2	2	6 3/8	6 3/8	3	3 7/8	11 3/4														3.13
2M	36	18	1 1/2	3/8	1/2	5	2 3/4	2 1/2	7 7/8	8	5	4 1/8	15 3/8														4.5
3	36	18	1 1/2	3/8	1/2	5	2 3/4	2 1/2	7 7/8	8	5	4 1/8	15 3/8														4.5
4	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0

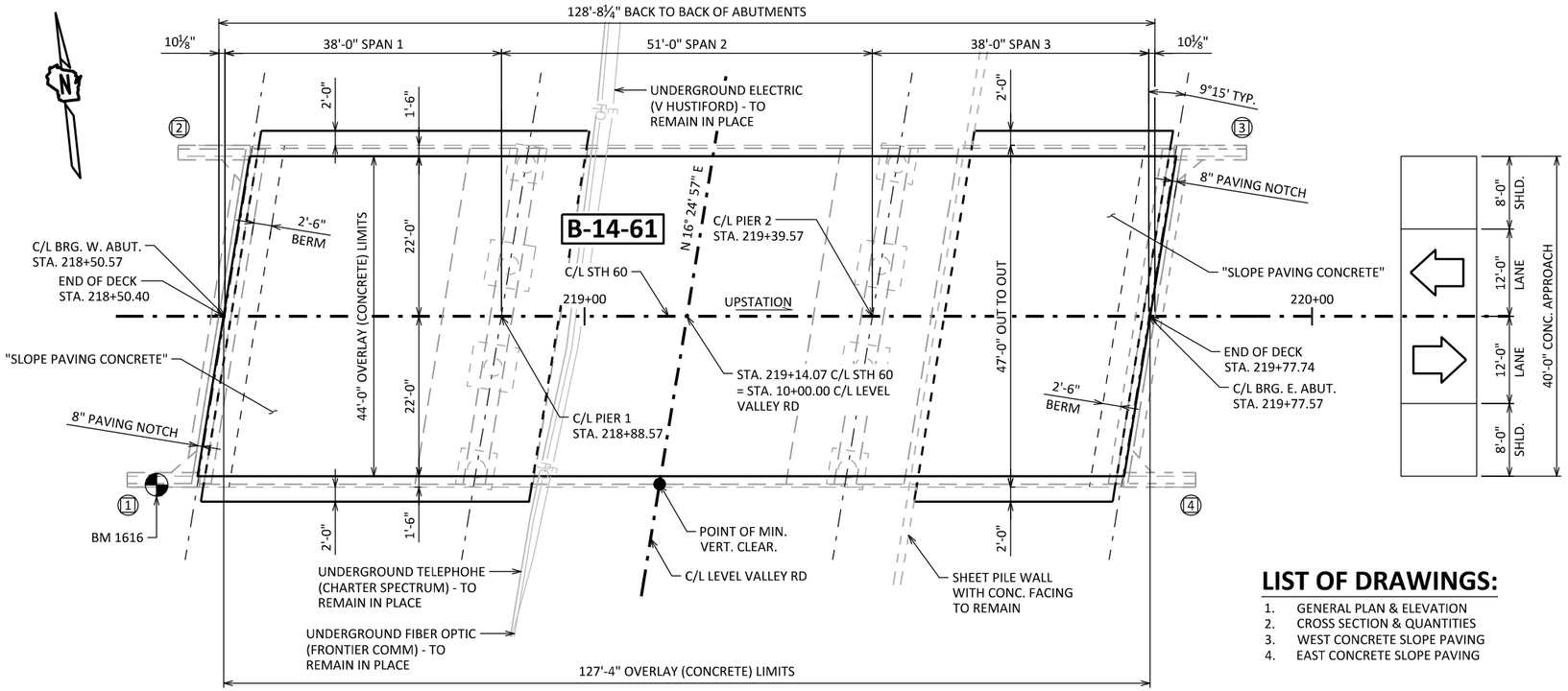
STANDARD SIGN
W57-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

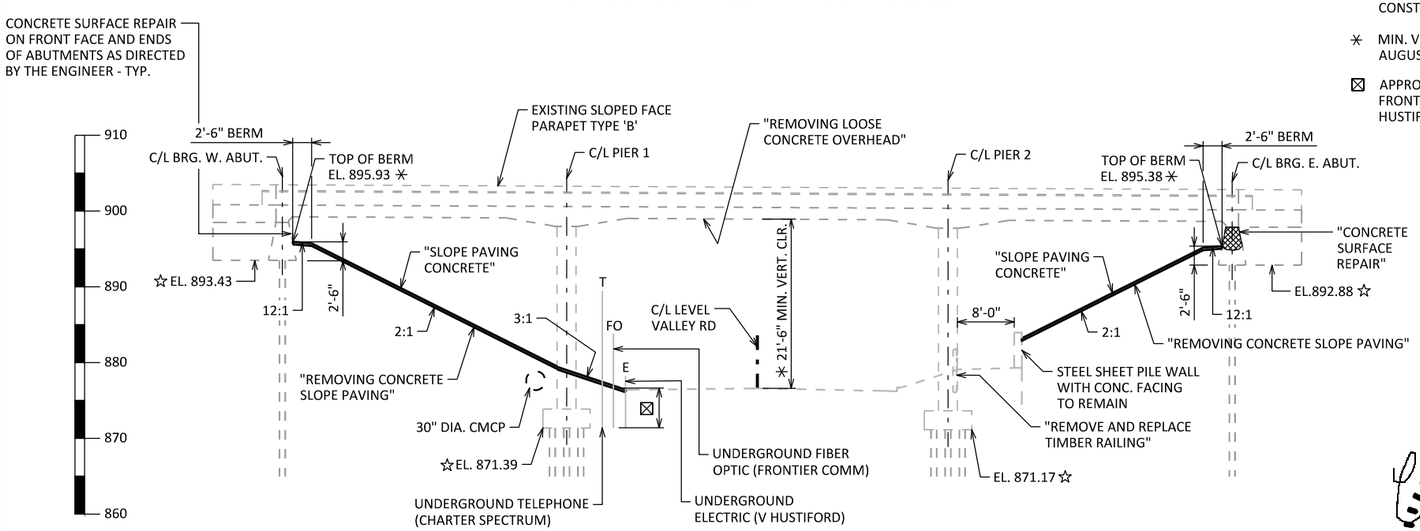
DATE 1/24/2024 PLATE NO. W57-51.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 64 | E



PLAN

CONCRETE OVERLAY - THREE SPAN CONCRETE HAUNCHED SLAB



ELEVATION

NORMAL TO C/L LEVEL VALLEY RD
(LOOKING NORTH)

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.	Y	X
203	---	RR SPIKE IN PPOL	880.67	681100.890	908647.210
204	---	HYD. BURY BOLT EAST	878.03	681170.142	908730.887
205	---	HYD. BURY BOLT EAST	876.42	681566.646	908868.550
1616	218+41.15	BRIDGE CAP SW WING	903.41	681257.456	908653.316

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION & QUANTITIES
3. WEST CONCRETE SLOPE PAVING
4. EAST CONCRETE SLOPE PAVING

LEGEND

☆ ELEVATIONS AS READ FROM ORIGINAL 1967 CONSTRUCTION PLANS.

⚹ MIN. VERTICAL CLEARANCE AS READ FROM AUGUST 2023 ROUTINE INSPECTION REPORT

⊠ APPROX. DEPTHS TO UTILITIES
FRONTIER: 2'-8"± TO 3'-10"±
HUSTIFORD ELECTRIC: 9'-0"± TO 10'-0"±

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE AS-BUILT STRUCTURE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF THE NEW CONCRETE OVERLAY.

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS ½-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1½" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

PAYMENT FOR ¾" WASHED STONE AT PIPE UNDERDRAINS BENEATH CONCRETE SLOPE PAVING SHALL BE PAID UNDER THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

"EPOXY CRACK SEALING" SHALL BE AT THE DIRECTION OF THE ENGINEER.

"REMOVING LOOSE CONCRETE OVERHEAD" SHALL INCLUDE REMOVAL OF DELAMINATED CONCRETE ON THE UNDERSIDE OF THE SLAB, SURFACE PREPARATION, APPLICATION OF CORROSION INHIBITOR, AND ALL INCIDENTAL ITEMS TO COMPLETE THE WORK AS DETAILED IN THE SPECIAL PROVISIONS. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.

"CONCRETE SURFACE REPAIR" AREAS ARE BASED ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-22
OPERATING RATING: HS-37
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY:
CONCRETE MASONRY OVERLAY DECKS ——— f'_c = 4,000 PSI
ALL OTHER ——— f'_c = 3,500 PSI

TRAFFIC DATA

FEATURE ON: STH 60
ADT = 5,220 (2026)
ADT = 5,590 (2046)
R.D.S. = 60 MPH

FEATURE UNDER: LEVEL VALLEY RD.
ADT = 530 (2026)
ADT = 570 (2046)
R.D.S. = 30 MPH

SCOPE OF WORK

- PLACEMENT OF NEW CONCRETE OVERLAY.
- REMOVAL AND REPLACEMENT OF SLOPE PAVING CONCRETE.

WISCONSIN
CHRISTOPHER J. MARCUM
44676
EAU CLAIRE
WISCONSIN
PROFESSIONAL ENGINEER
07/25/2026

STRUCTURE DESIGN CONTACTS:
CHRISTOPHER MARCUM, P.E. 715-861-4823
AARON BONK 608-261-0261

NO.	DATE	REVISION	BY

STATE PROJECT NUMBER
3042-01-60

jt ENGINEERING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED JLR 08/13/26
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-14-61

STH 60 OVER LEVEL VALLEY RD

COUNTY	VILLAGE
DODGE	HUSTISFORD

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D	DRAWN BY	PLANS CK'D
RAC	CJM	MPG/RAC	VJD/CJM

GENERAL PLAN & ELEVATION

SHEET 1 OF 4
65

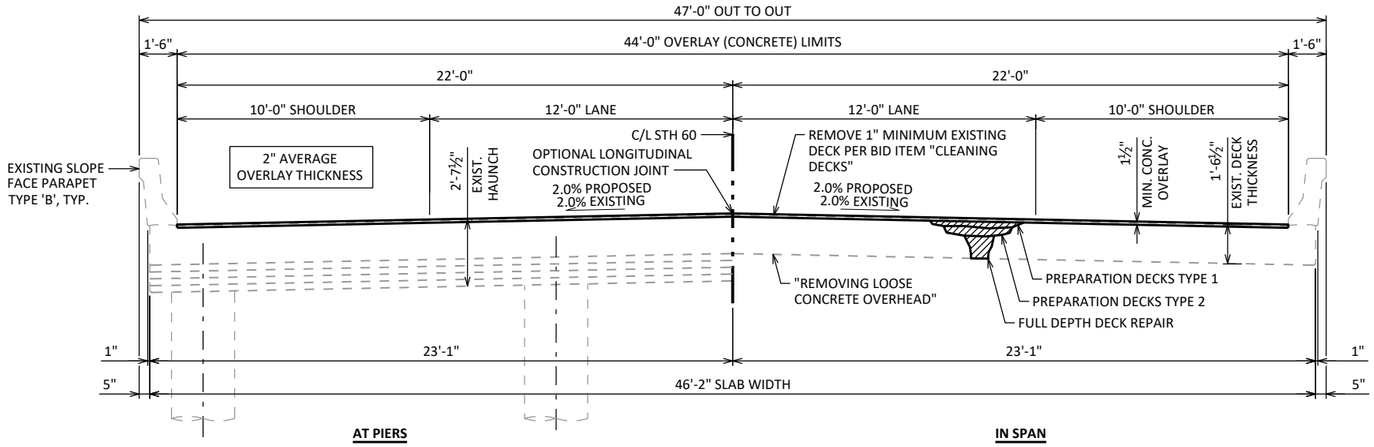
I.D. 3042-01-30 DATE: MAY 2026

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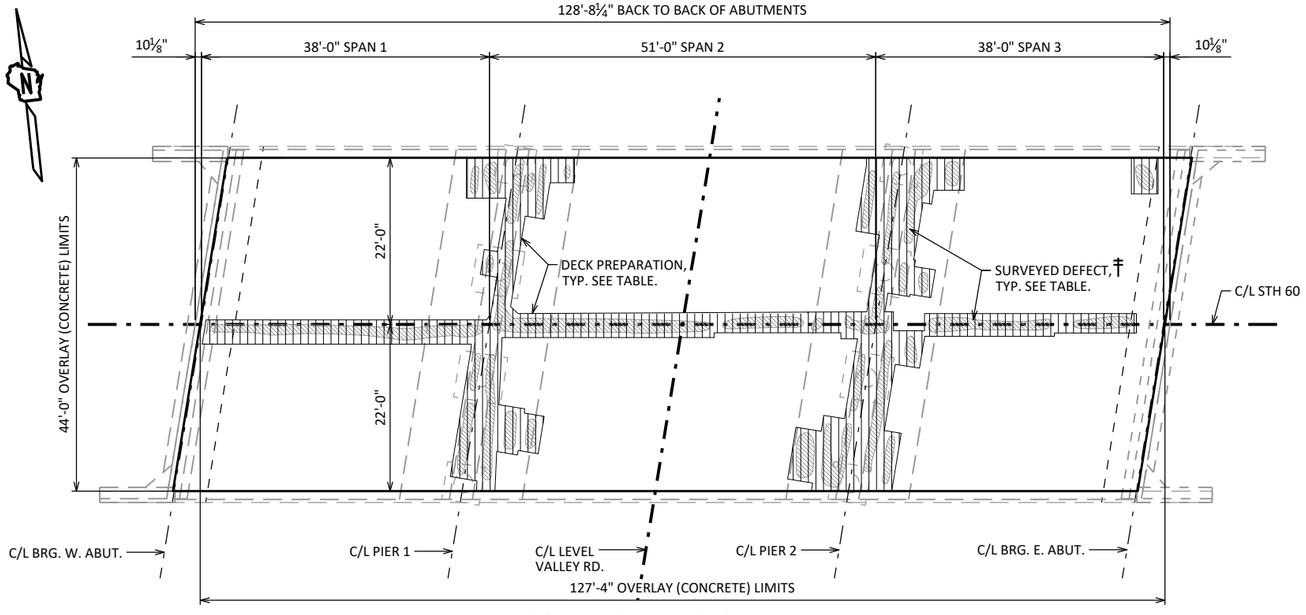
STATE PROJECT NUMBER

3042-01-60



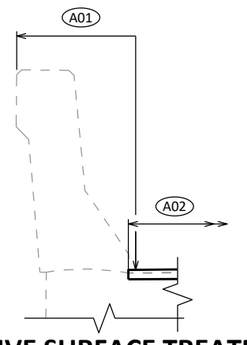
CROSS SECTION THRU BRIDGE

LOOKING EAST
NORMAL TO C/L STH 60



DECK PREPARATION PLAN

SHOWING INFRARED THERMOGRAPHIC SURVEY RESULTS



PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER DETAIL

A01 COAT WITH "PIGMENTED SURFACE SEALER RESEAL" AS PER THE STANDARD SPECIFICATIONS. "PIGMENTED SURFACE SEALER RESEAL" SHALL BE APPLIED TO THE ROADWAY FACE AND TOP OF THE EXISTING PARAPETS PER THE STANDARD SPECIFICATIONS.

A02 COAT WITH "PROTECTIVE SURFACE TREATMENT " AS PER THE STANDARD SPECIFICATIONS . "PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE CONCRETE OVERLAY.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
204.0175	REMOVING CONCRETE SLOPE PAVING	SY	440
502.3200	PROTECTIVE SURFACE TREATMENT	SY	625
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	100
509.0301	PREPARATION DECKS TYPE 1	SY	110
509.0302	PREPARATION DECKS TYPE 2	SY	50
509.0500	CLEANING DECKS	SY	623
509.1500	CONCRETE SURFACE REPAIR	SF	20
509.2000	FULL-DEPTH DECK REPAIR	SY	16
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	50
509.9020.S	EPOXY CRACK SEALING	LF	100
604.0400	SLOPE PAVING CONCRETE	SY	445
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	324
SPV.0090	REMOVE AND REPLACE TIMBER RAILING	LF	72
SPV.0165	REMOVING LOOSE CONCRETE OVERHEAD	SF	195
	NON-BID ITEMS		
	FILLER	SIZE	½", ¾"

ALL B-14-61 BID ITEMS ARE CATEGORY 0020

INFRARED THERMOGRAPHIC SURVEY RESULTS

FIELD OBSERVATIONS SUMMARY		STRUCTURE NO. B-14-061	
ITEM	UNIT	QUANT.	%
TOTAL AREA	SF	5,544	
SHADE/DEBRIS	SF	0	
DELAMINATION	SF	353	6.4
SPALL	SF	1	0
DEBOND	SF	N/A	N/A
ASPHALT PATCH	SF	0	0
PCC PATCH	SF	0	0

LEGEND: DELAMINATION, SPALL, DEBOND, ASPHALT PATCH, PCC PATCH, SHADE/DEBRIS

ESTIMATED DECK PREPARATION AREAS

FIELD OBSERVATIONS SUMMARY		STRUCTURE NO. B-14-061	
ITEM	UNIT	QUANT.	%
TOTAL AREA	SY	616	
SHADE/DEBRIS	SY	0	
PREPARATION, DECKS TYPE 1	SY	109.9	17.8
PREPARATION, DECKS, TYPE 2 *	SY	49.5	8.0
FULL DEPTH DECK REPAIR *	SY	15.8	2.6

LEGEND: SHADE/DEBRIS, DECK PREPARATION TYPE 1

ESTIMATED*

‡ SURVEY TYPE: CONCRETE, NO OVERLAY
SURVEY COMPLETED DATE: 03/20/2024

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-14-61

DRAWN BY MPG/RAC | PLANS CK'D VJD/CJM

CROSS SECTION & QUANTITIES

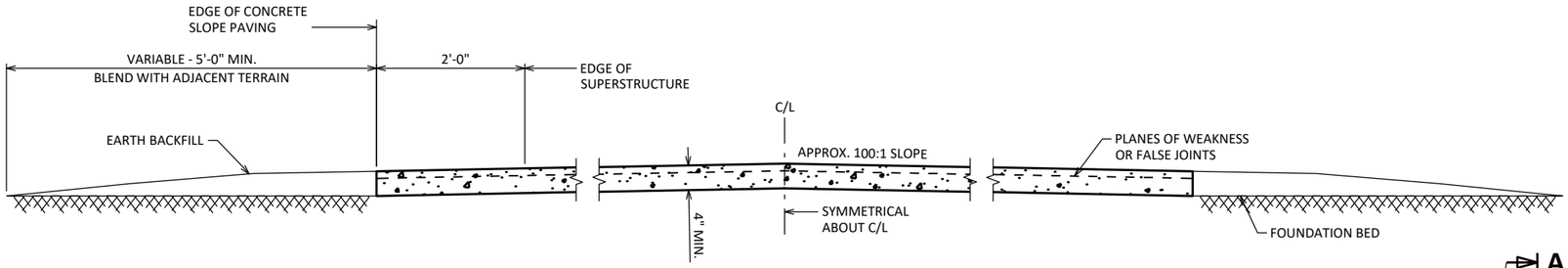
SHEET 2 OF 4
66

8

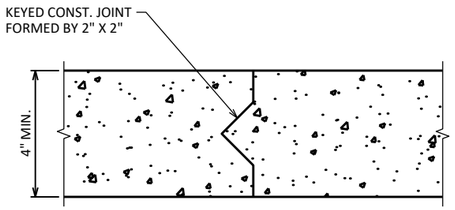
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STATE PROJECT NUMBER

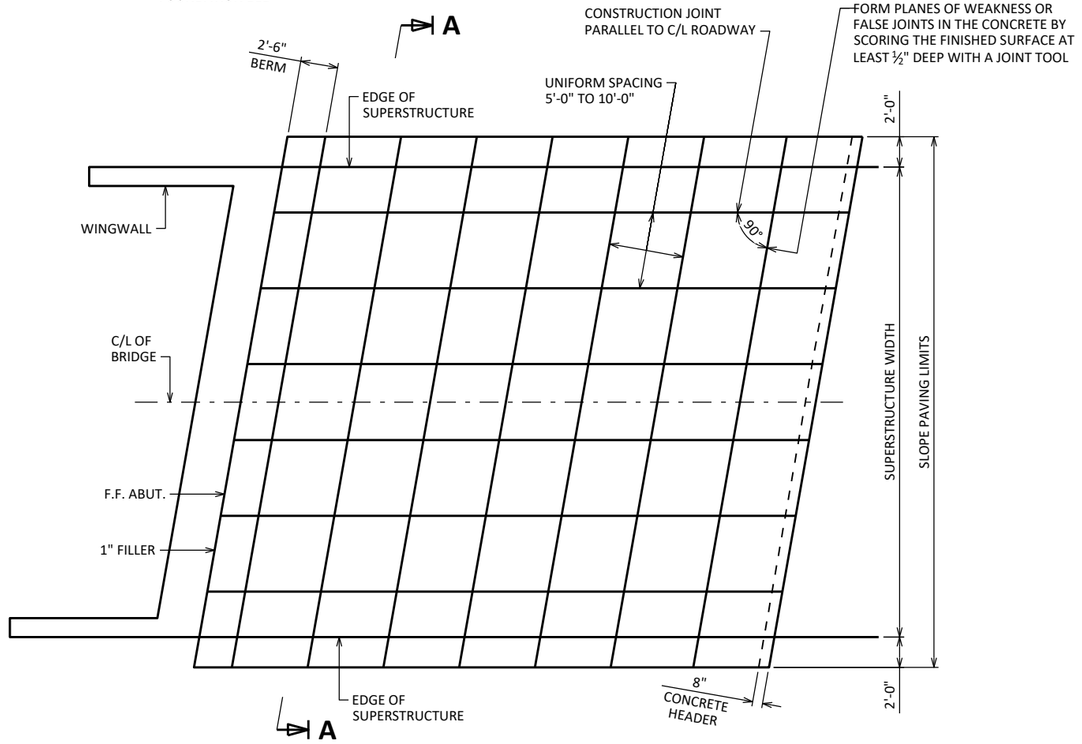
3042-01-60



SECTION A-A

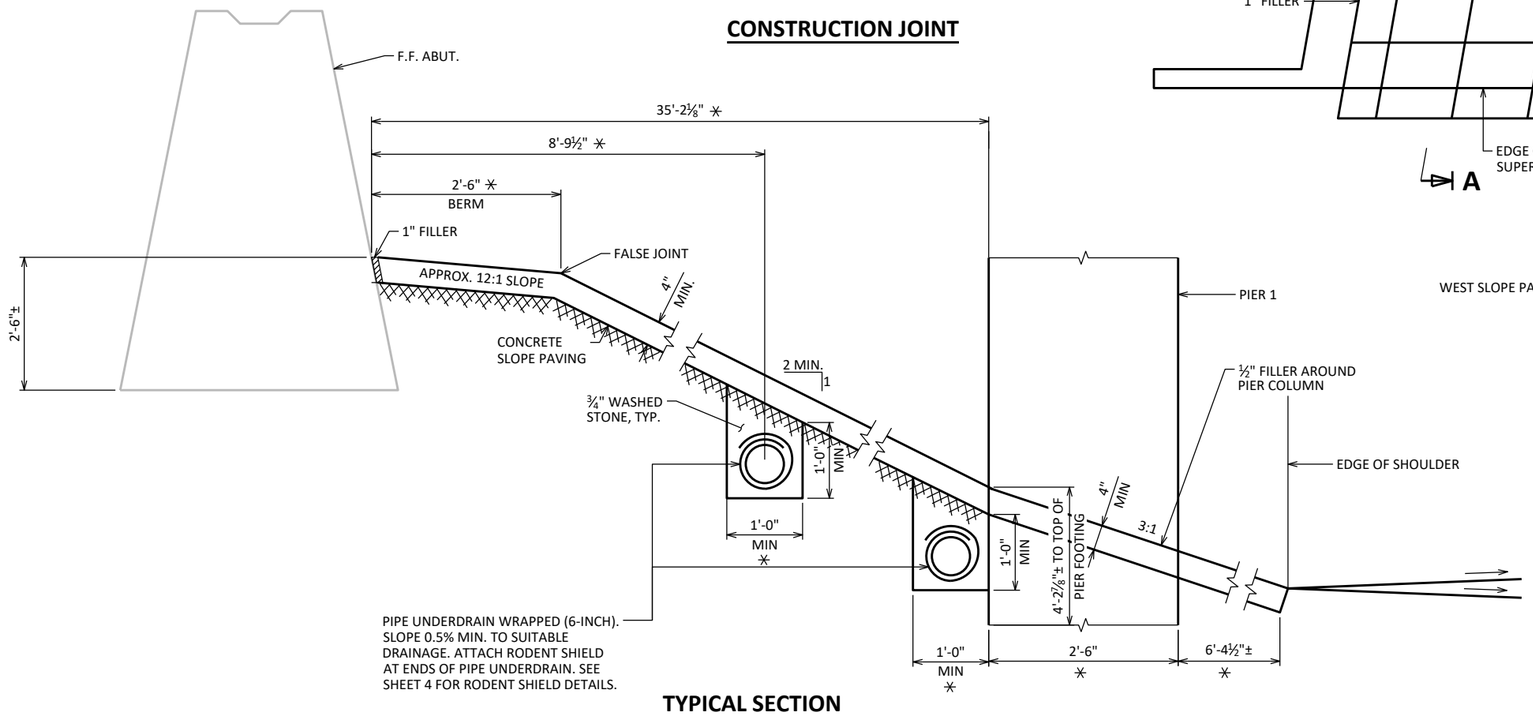


CONSTRUCTION JOINT



PLAN

WEST SLOPE PAVING SHOWN, EAST SLOPE PAVING SIMILAR



TYPICAL SECTION

LOOKING NORMAL TO W. ABUT.

✳ DIMENSIONS MEASURED NORMAL TO C/L LEVEL VALLEY ROAD

NOTE

BID ITEMS SHALL BE "SLOPE PAVING CONCRETE" AND "PIPE UNDERDRAIN WRAPPED 6-INCH"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-14-61

DRAWN BY RAC | PLANS CK'D CJM

WEST CONCRETE SLOPE PAVING

SHEET 3 OF 4
67

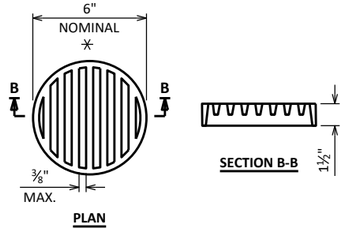
SCALE = 2.00

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STATE PROJECT NUMBER

3042-01-60



RODENT SHIELD DETAIL

✳ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

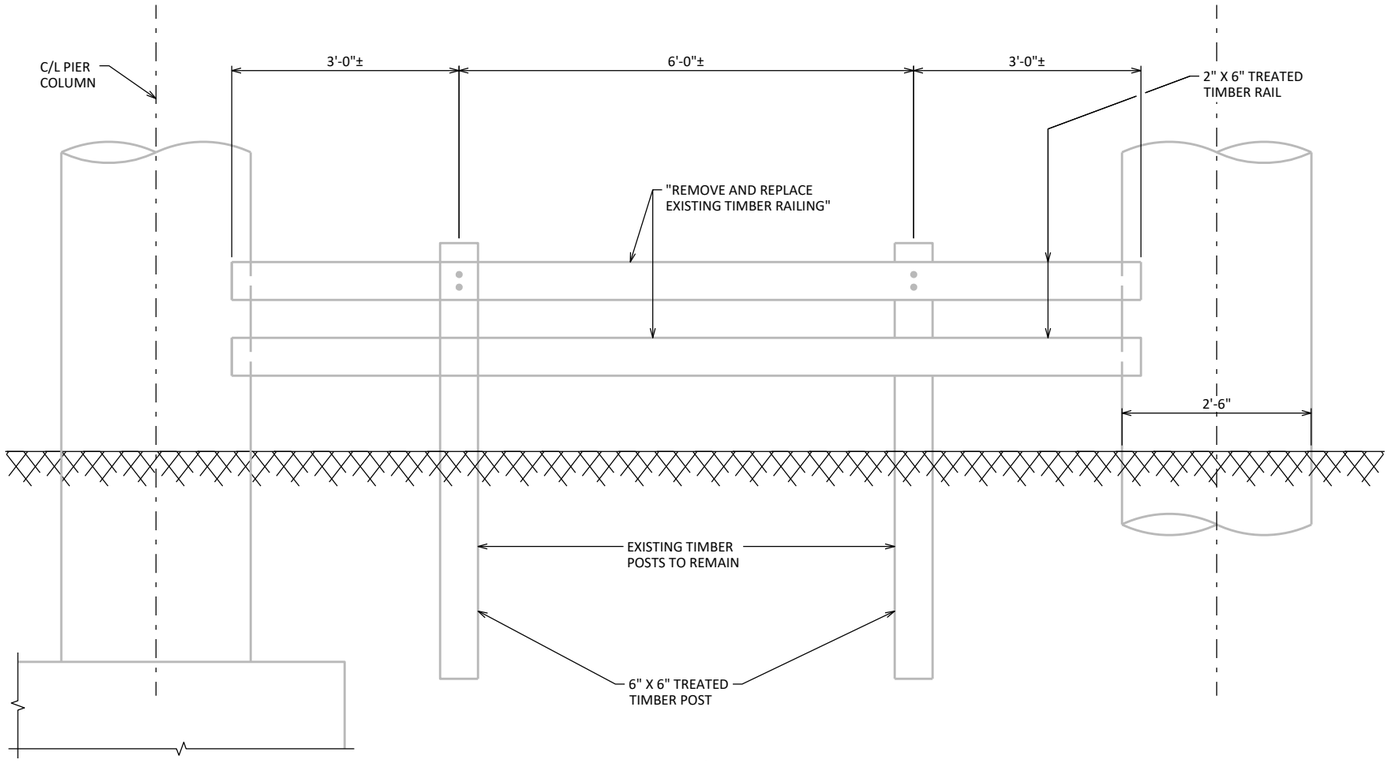
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

NOTE

BID ITEMS SHALL BE "SLOPE PAVING CONCRETE" AND "PIPE UNDERDRAIN WRAPPED 6-INCH"

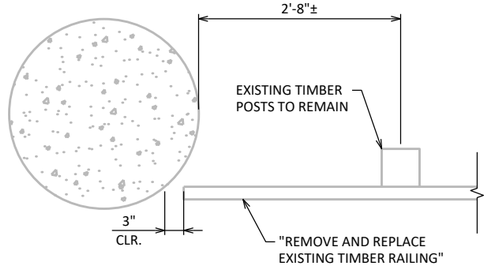
FOR SECTION THROUGH SLOPE PAVING, CONSTRUCTION JOINT, AND PLAN VIEW SEE SHEET 3.

HORIZONTAL DIMENSIONS MEASURED NORMAL TO C/L LEVEL VALLEY RD.

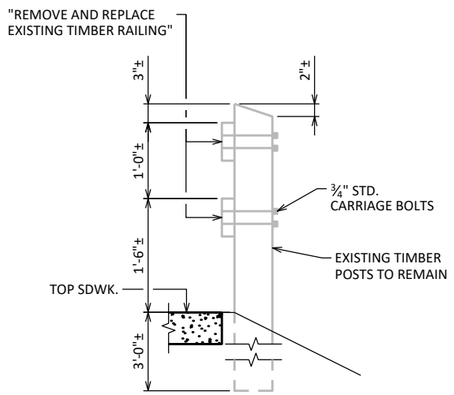


ELEVATION

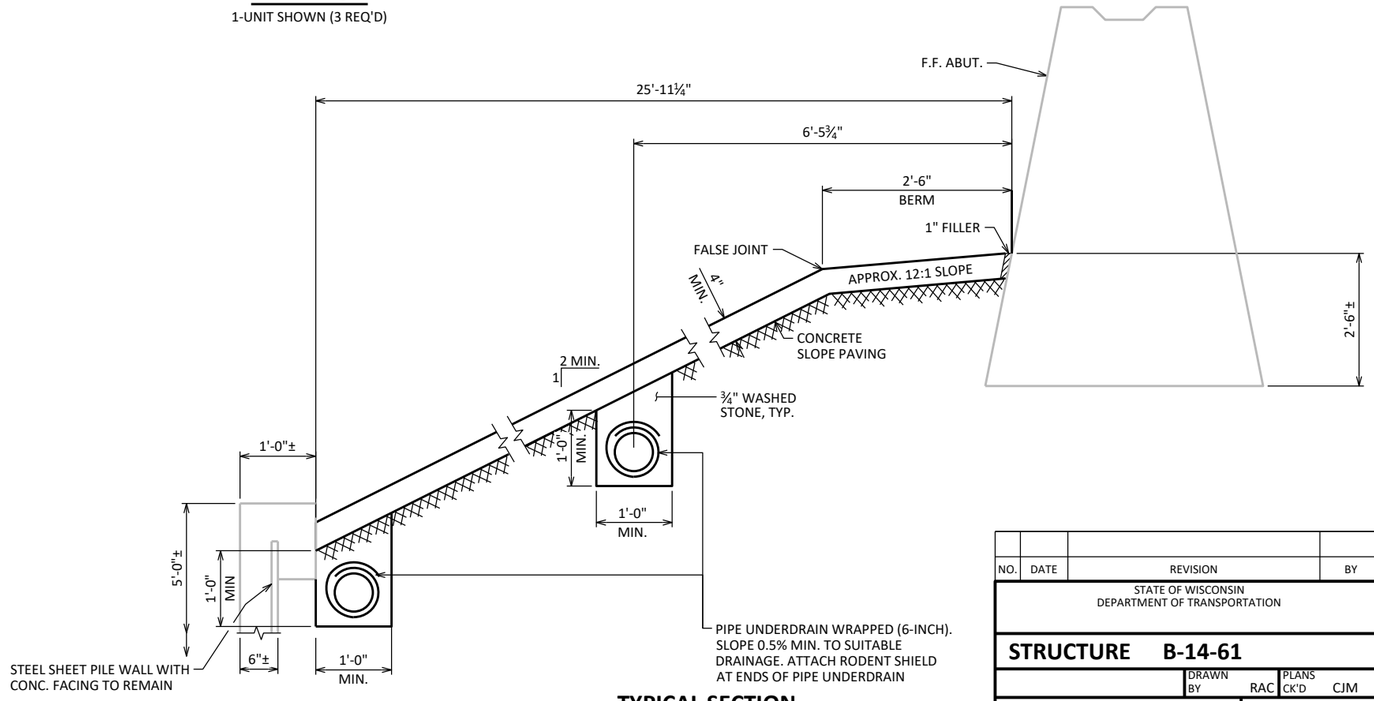
1-UNIT SHOWN (3 REQ'D)



PART PLAN



SECTION THRU RAIL



TYPICAL SECTION

LOOKING NORMAL TO E. ABUT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-14-61

DRAWN BY RAC | PLANS CK'D CJM

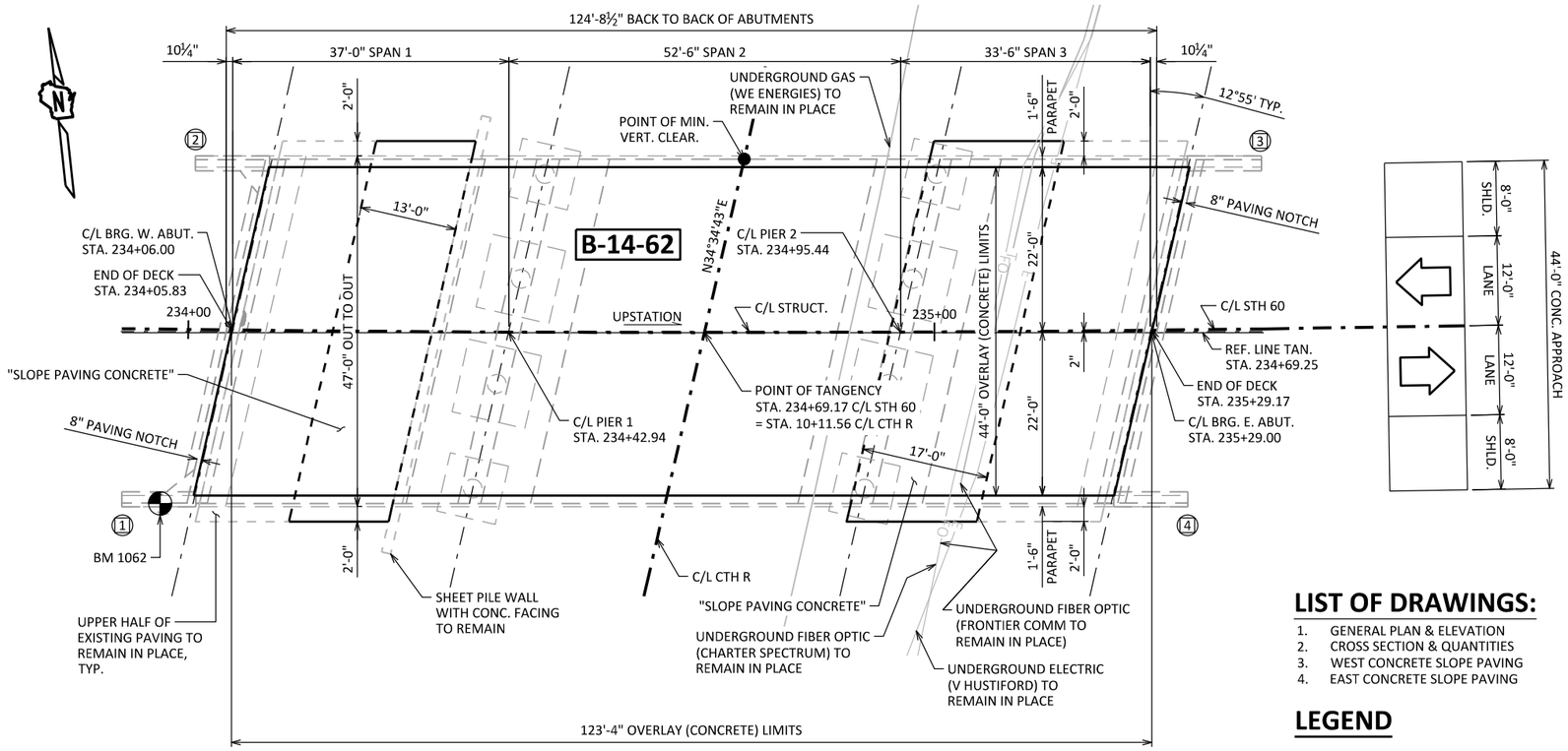
EAST CONCRETE SLOPE PAVING

SHEET 4 OF 4
68

SCALE = 2.00

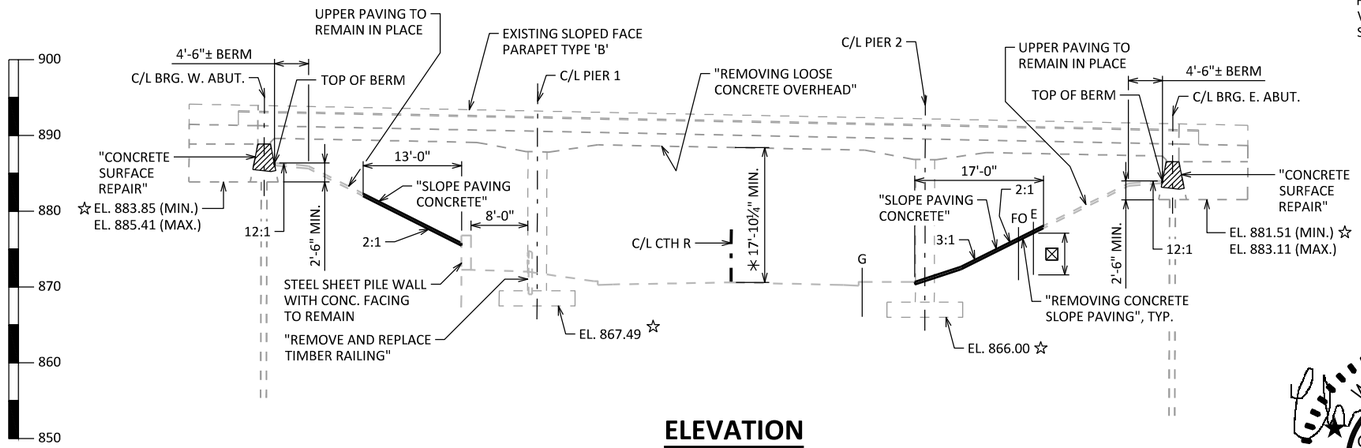
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PLAN

CONCRETE OVERLAY - THREE SPAN CONCRETE HAUNCHED SLAB
ALL DIMENSIONS ARE BASED ON C/L STRUCTURE UNLESS NOTED OTHERWISE



ELEVATION

NORMAL TO C/L CTH R
(LOOKING NORTH)

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.	NORTHING (Y)	EASTING (X)
200	235+29.86	HYD. BURY BOLT EAST	868.48	681295.386	910343.242
201	234+71.71	LPOL BOLT SW	870.00	681186.267	910280.189
202	234+03.17	LPOL BOLT SW	877.63	680879.354	910189.420
1062	233+96.52	BRIDGE CAP SW WING	895.79	681068.644	910197.045

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION & QUANTITIES
3. WEST CONCRETE SLOPE PAVING
4. EAST CONCRETE SLOPE PAVING

LEGEND

☆ ELEVATIONS AS READ FROM ORIGINAL 1967 CONSTRUCTION PLANS.

✳ MIN. VERTICAL CLEARANCE AS READ FROM JULY 2024 ROUTINE INSPECTION REPORT

☒ APPROX. DEPTHS TO UTILITIES
FRONTIER FIBER: 11'-2"±
V HUSTIFORD ELECTRIC: 9'-0"± TO 10'-0"±
SPECTRUM FIBER: 3'-6"±



07/25/2026

STATE PROJECT NUMBER
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GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE AS-BUILT STRUCTURE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF THE NEW CONCRETE OVERLAY.

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS ½-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1½" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

PAYMENT FOR ¾" WASHED STONE AT PIPE UNDERDRAINS BENEATH CONCRETE SLOPE PAVING SHALL BE PAID UNDER THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

"REMOVING LOOSE CONCRETE OVERHEAD" SHALL INCLUDE REMOVAL OF DELAMINATED CONCRETE ON THE UNDERSIDE OF THE SLAB, SURFACE PREPARATION, APPLICATION OF CORROSION INHIBITOR, AND ALL INCIDENTAL ITEMS TO COMPLETE THE WORK AS DETAILED IN THE SPECIAL PROVISIONS. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.

"EPOXY CRACK SEALING" SHALL BE AT THE DIRECTION OF THE ENGINEER.

"CONCRETE SURFACE REPAIR" AREAS ARE BASED ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-19
OPERATING RATING: HS-32
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY:
CONCRETE MASONRY OVERLAY DECKS ——— f'_c = 4,000 PSI
ALL OTHER ——— f'_c = 3,500 PSI

TRAFFIC DATA

FEATURE ON: STH 60
ADT = 5,220 (2026)
ADT = 5,590 (2046)
R.D.S. = 60 MPH

FEATURE UNDER: CTH R
ADT = 1,600 (2026)
ADT = 1,700 (2046)
R.D.S. = 30 MPH

SCOPE OF WORK

- PLACEMENT OF NEW CONCRETE OVERLAY.
- REMOVAL AND REPLACEMENT OF SLOPE PAVING CONCRETE.

CURVE DATA

FEATURE ON: STH 60
P.I. = STA. 237+77.55
Δ = 13°20'26"LT
D = 1°00'00"
T = 670.06'
L = 1334.07'
R = 5729.58'
S.E. = 3%
P.C. = 231+07.49
P.T. = 244+41.55

STRUCTURE DESIGN CONTACTS:
CHRISTOPHER MARCUM, P.E. 715-861-4823
AARON BONK 608-261-0261

NO.	DATE	REVISION	BY

jt ENGINEERING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED JLR 08/13/26
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-14-62

STH 60 OVER CTH R

COUNTY	VILLAGE
DODGE	HUSTISFORD

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D	DRAWN BY	PLANS CK'D
RAC	CJM	MPG/RAC	VJD/CJM

GENERAL PLAN & ELEVATION

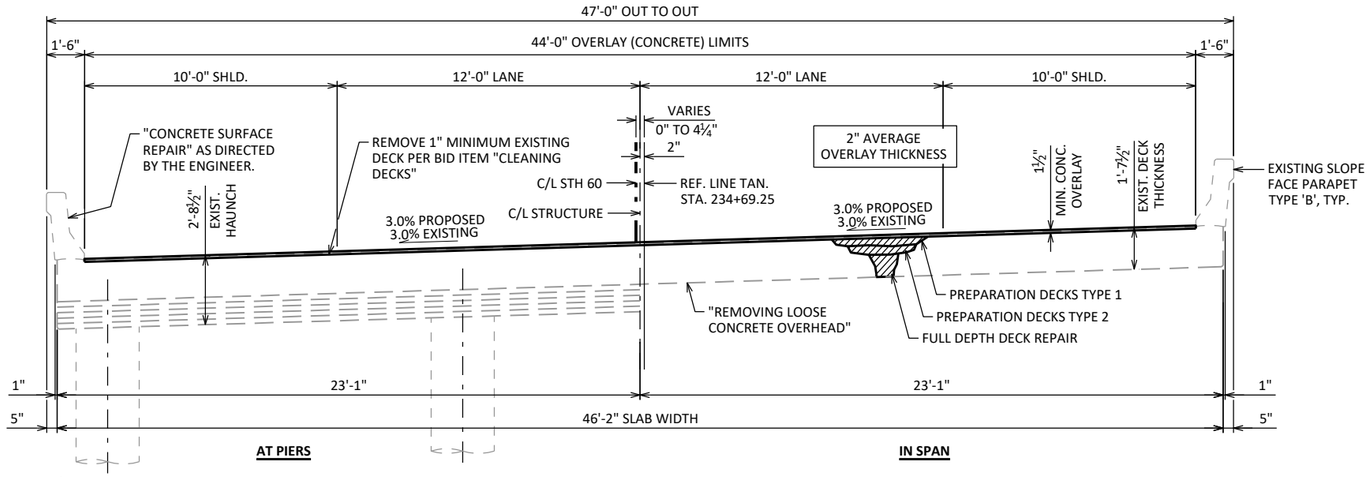
SHEET 1 OF 4
69

I.D. 3042-01-30 DATE: MAY 2026

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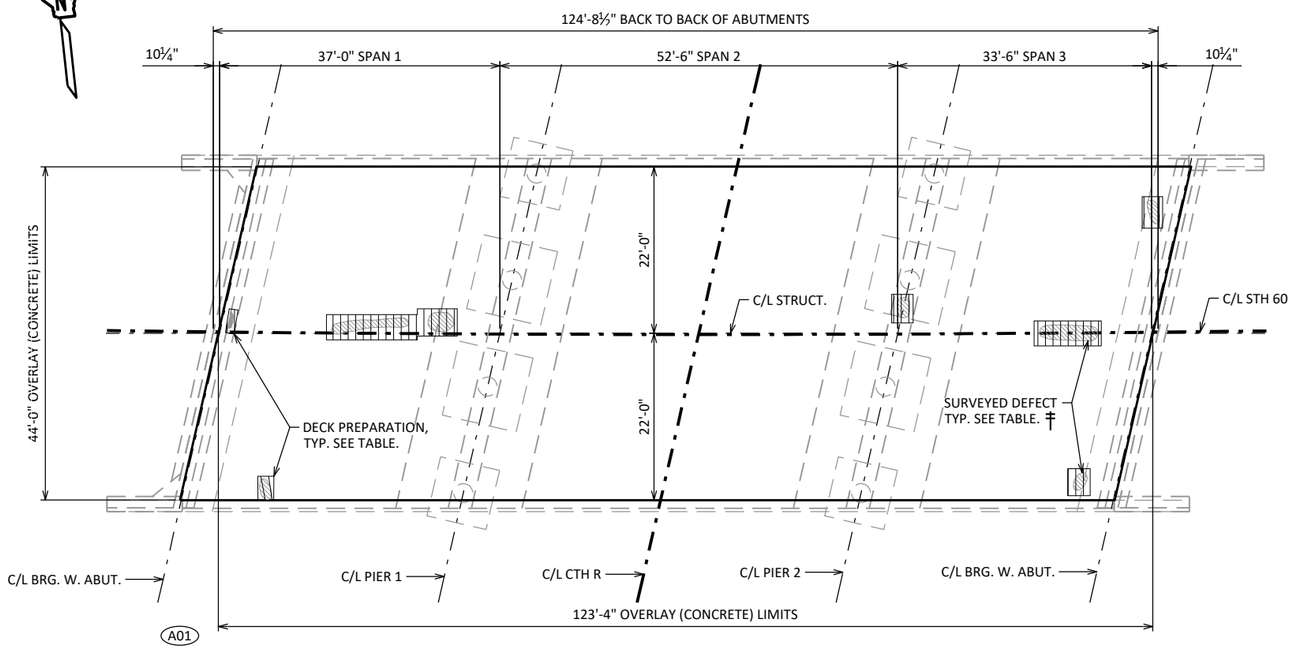
STATE PROJECT NUMBER

3042-01-60



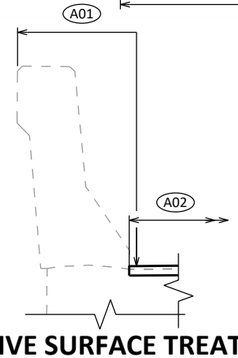
CROSS SECTION THRU BRIDGE

LOOKING EAST
NORMAL TO C/L STRUCTURE



DECK PREPARATION PLAN

SHOWING INFRARED THERMOGRAPHIC SURVEY RESULTS
ALL DIMENSIONS ARE BASED ON C/L STRUCTURE UNLESS NOTED OTHERWISE



PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER DETAIL

(A01) COAT WITH "PIGMENTED SURFACE SEALER RESEAL" AS PER THE STANDARD SPECIFICATIONS. "PIGMENTED SURFACE SEALER RESEAL" SHALL BE APPLIED TO THE ROADWAY FACE AND TOP OF THE EXISTING PARAPETS PER THE STANDARD SPECIFICATIONS.

(A02) COAT WITH "PROTECTIVE SURFACE TREATMENT " AS PER THE STANDARD SPECIFICATIONS . "PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE CONCRETE OVERLAY.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
204.0175	REMOVING CONCRETE SLOPE PAVING	SY	195
502.3200	PROTECTIVE SURFACE TREATMENT	SY	605
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	95
509.0301	PREPARATION DECKS TYPE 1	SY	16
509.0302	PREPARATION DECKS TYPE 2	SY	7
509.0500	CLEANING DECKS	SY	603
509.1500	CONCRETE SURFACE REPAIR	SF	40
509.2000	FULL-DEPTH DECK REPAIR	SY	5
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	37
509.9020.S	EPOXY CRACK SEALING	LF	100
604.0400	SLOPE PAVING CONCRETE	SY	210
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	162
SPV.0090	REMOVE AND REPLACE TIMBER RAILING	LF	72
SPV.0165	REMOVING LOOSE CONCRETE OVERHEAD	SF	185
	NON-BID ITEMS		
	FILLER	SIZE	½", ¾"

ALL B-14-62 BID ITEMS ARE CATEGORY 0030

INFRARED THERMOGRAPHIC SURVEY RESULTS

FIELD OBSERVATIONS SUMMARY		STRUCTURE NO. B-14-062	
ITEM	UNIT	QUANT.	%
TOTAL AREA	SF	5,368	
SHADE/DEBRIS	SF	0	
DELAMINATION	SF	47	0.9
SPALL	SF	1	<0.1
DEBOND	SF	N/A	N/A
ASPHALT PATCH	SF	0	0
PCC PATCH	SF	0	0

LEGEND: DELAMINATION, SPALL, DEBOND, ASPHALT PATCH, PCC PATCH, SHADE/DEBRIS

ESTIMATED DECK PREPARATION AREAS

FIELD OBSERVATIONS SUMMARY		STRUCTURE NO. B-14-062	
ITEM	UNIT	QUANT.	%
TOTAL AREA	SY	596.4	
SHADE/DEBRIS	SY	0	
PREPARATION, DECKS TYPE 1	SY	15.1	2.5
PREPARATION, DECKS, TYPE 2 *	SY	6.8	1.1
FULL DEPTH DECK REPAIR *	SY	4.8	0.8

LEGEND: SHADE/DEBRIS, DECK PREPARATION TYPE 1

ESTIMATED*

‡ SURVEY TYPE: CONCRETE, NO OVERLAY
SURVEY COMPLETED DATE: 03/20/2024

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-14-62

DRAWN BY MPG/RAC | PLANS CK'D VJD/CJM

CROSS SECTION & QUANTITIES

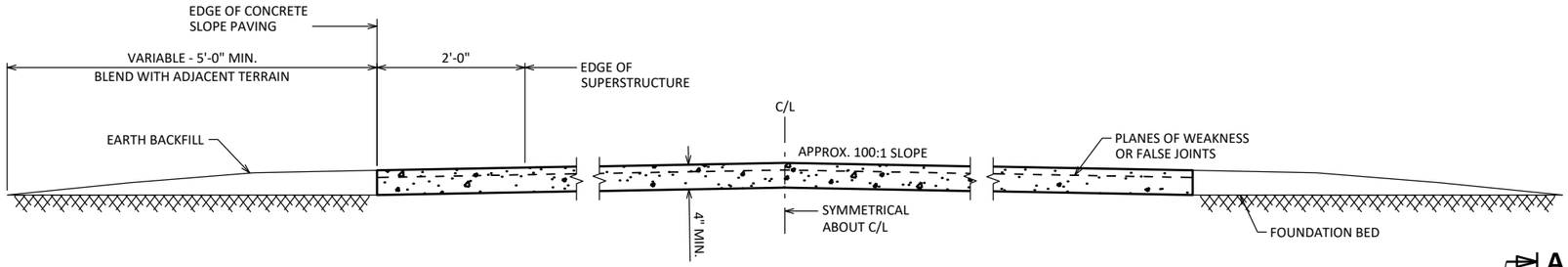
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70

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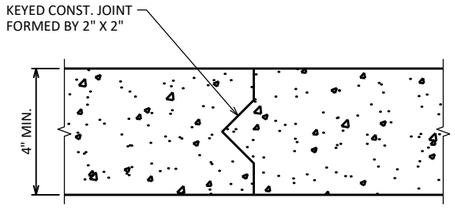
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STATE PROJECT NUMBER

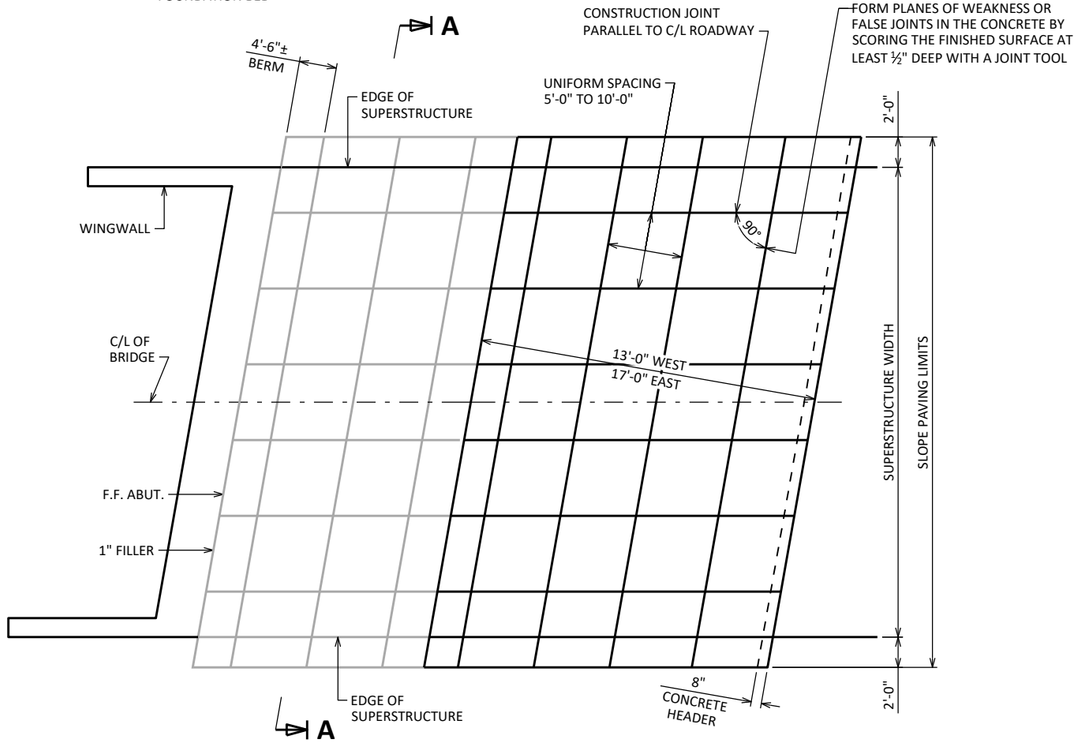
3042-01-60



SECTION A-A

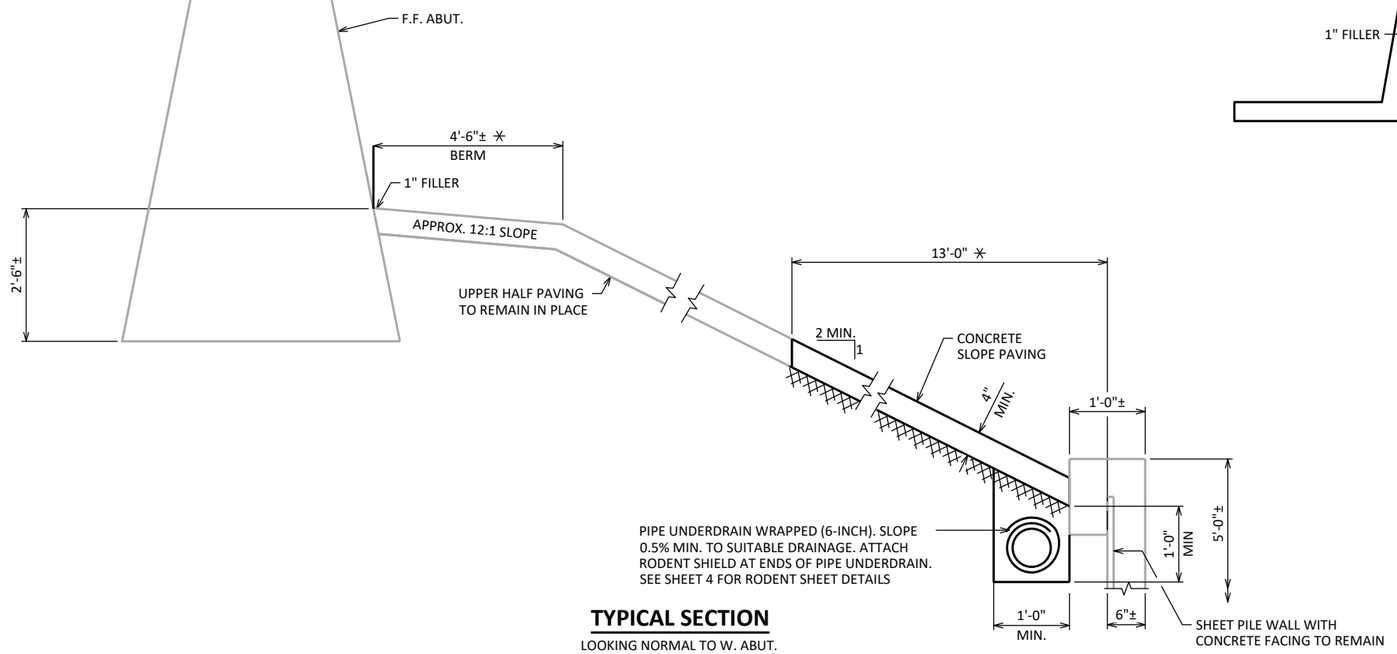


CONSTRUCTION JOINT



PLAN

WEST SLOPE PAVING SHOWN, EAST SLOPE PAVING SIMILAR



TYPICAL SECTION

LOOKING NORMAL TO W. ABUT.

NOTE

BID ITEMS SHALL BE "SLOPE PAVING CONCRETE" AND "PIPE UNDERDRAIN WRAPPED 6-INCH"

✳ HORIZONTAL DIMENSIONS MEASURED NORMAL TO C/L CTH R.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-14-62

DRAWN BY RAC | PLANS CK'D CJM

WEST CONCRETE SLOPE PAVING

SHEET 3 OF 4

71

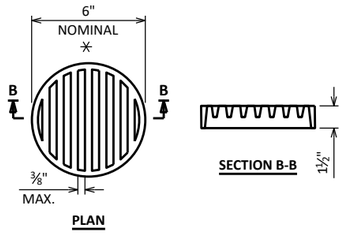
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STATE PROJECT NUMBER

3042-01-60

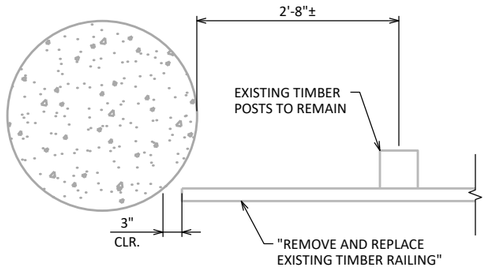


RODENT SHIELD DETAIL

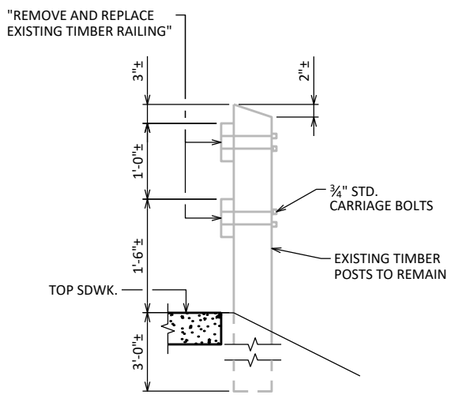
⚹ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

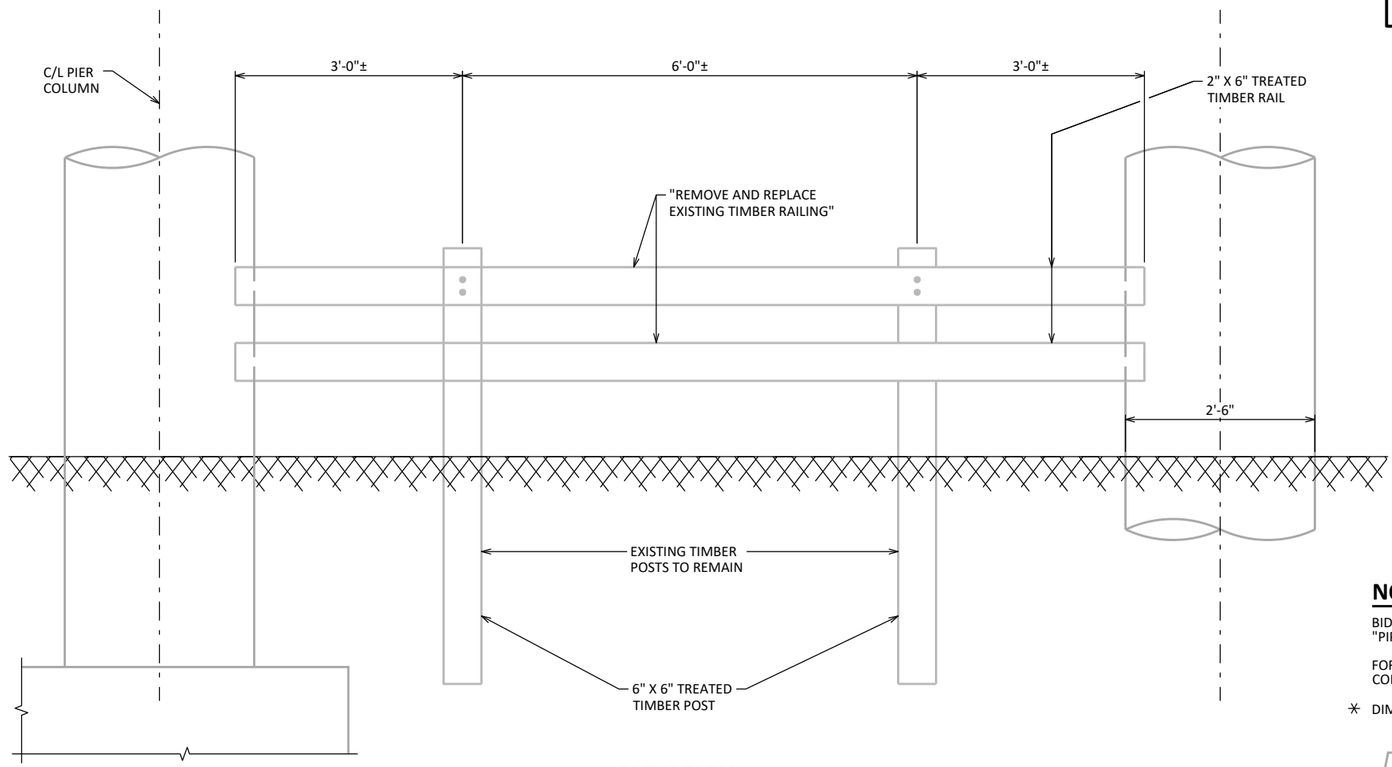
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



PART PLAN



SECTION THRU RAIL



ELEVATION

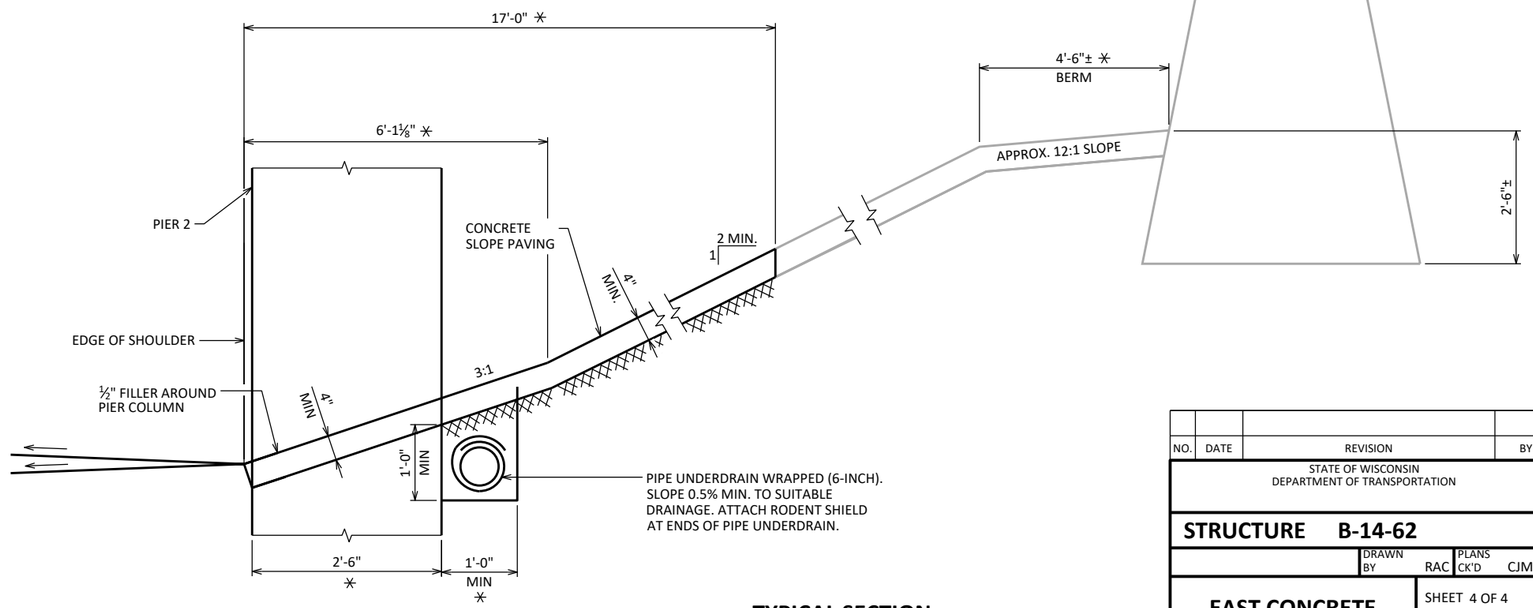
1-UNIT SHOWN (3 REQ'D)

NOTE

BID ITEMS SHALL BE "SLOPE PAVING CONCRETE" AND "PIPE UNDERDRAIN WRAPPED 6-INCH"

FOR SECTION THROUGH SLOPE PAVING, CONSTRUCTION JOINT, AND PLAN VIEW, SEE SHEET 3.

⚹ DIMENSIONS MEASURED NORMAL TO C/L CTH R.



TYPICAL SECTION

LOOKING NORMAL TO E. ABUT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-14-62

DRAWN BY RAC | PLANS CK'D CJM

EAST CONCRETE SLOPE PAVING

SHEET 4 OF 4

72

SCALE = 2.00

8

8

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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