WKE

MAY 2018

PROJECT ID: 1229-05-70

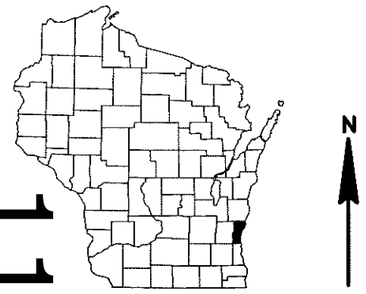
WITH:

COUNTY: OZAUKEE

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 = 374



11

N

DESIGN DESIGNATION			STH 32 TO STH 33	STH 33 TO STH 32/CTH H	STH 32/CTH H TO CTH D	NORTH OF CTH D
A.A.D.T.	2016	=	44,000	= 41,800	= 27,100	= 25,100
A.A.D.T.	2029	=	49,400	= 46,700	= 30,200	= 28,200
D.H.V.		=	9.2%	= 9.2%	= 9.2%	= 9.2%
D.D.		=	58/42	= 58/42	= 58/42	= 58/42
T.		=	14.4%	= 14.4%	= 14.4%	= 14.4%
DESIGN SPEED		=	75 MPH	= 75MPH	= 75 MPH	= 75 MPH
ESALS		=				

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)
- OVERHEAD UTILITY (OH)
- 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

NORTH SOUTH FREEWAY

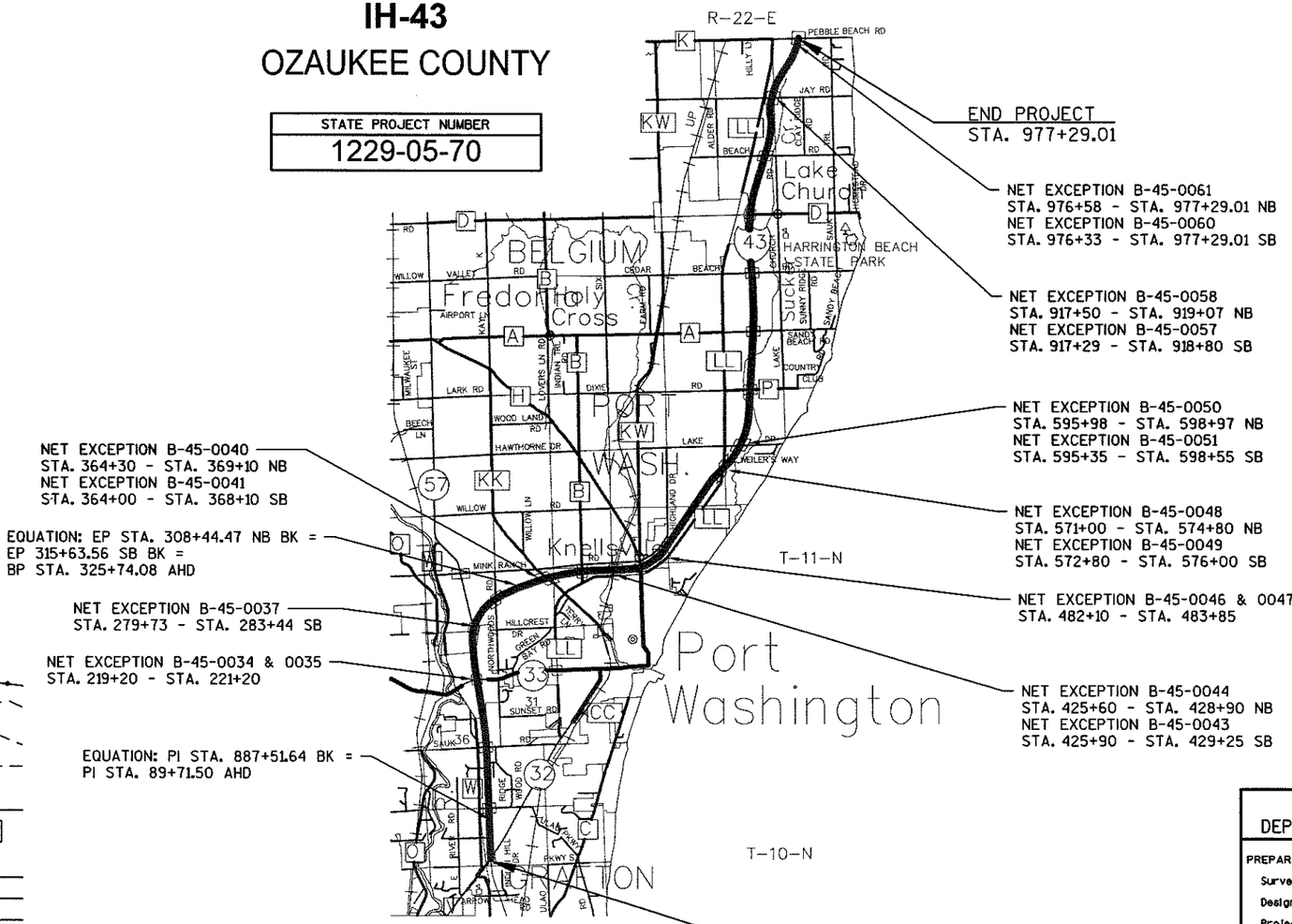
STH 32 TO NORTH OZAUKEE COUNTY LINE

IH-43

OZAUKEE COUNTY

STATE PROJECT NUMBER
1229-05-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1229-05-70	WISC 2018237	1



END PROJECT
STA. 977+29.01

NET EXCEPTION B-45-0061
STA. 976+58 - STA. 977+29.01 NB
NET EXCEPTION B-45-0060
STA. 976+33 - STA. 977+29.01 SB

NET EXCEPTION B-45-0058
STA. 917+50 - STA. 919+07 NB
NET EXCEPTION B-45-0057
STA. 917+29 - STA. 918+80 SB

NET EXCEPTION B-45-0050
STA. 595+98 - STA. 598+97 NB
NET EXCEPTION B-45-0051
STA. 595+35 - STA. 598+55 SB

NET EXCEPTION B-45-0048
STA. 571+00 - STA. 574+80 NB
NET EXCEPTION B-45-0049
STA. 572+80 - STA. 576+00 SB

NET EXCEPTION B-45-0046 & 0047
STA. 482+10 - STA. 483+85

NET EXCEPTION B-45-0044
STA. 425+60 - STA. 428+90 NB
NET EXCEPTION B-45-0043
STA. 425+90 - STA. 429+25 SB

NET EXCEPTION B-45-0040
STA. 364+30 - STA. 369+10 NB
NET EXCEPTION B-45-0041
STA. 364+00 - STA. 368+10 SB

EQUATION: EP STA. 308+44.47 NB BK =
EP 315+63.56 SB BK =
BP STA. 325+74.08 AHD

NET EXCEPTION B-45-0037
STA. 279+73 - STA. 283+44 SB

NET EXCEPTION B-45-0034 & 0035
STA. 219+20 - STA. 221+20

EQUATION: PI STA. 887+51.64 BK =
PI STA. 89+71.50 AHD

BEGIN PROJECT
STA. 829+70
X = 602302
Y = 2407091

LAYOUT
SCALE 0 2 MILES

TOTAL NET LENGTH OF CENTERLINE = 16.792 MI.

COORDINATES ON THIS PLAN ARE SCALED TO THE WISCONSIN COUNTY COORDINATES SYSTEM (WCCS), 'OZAUKEE COUNTY, NAD 1983 (91).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	SEAN MCKINNEY
Project Manager	VIDA SHAFFER
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	REEM SHAHIN

APPROVED FOR THE DEPARTMENT
DATE: 2-1-18 Vida Shaffer (Signature)

E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\010101_TI.DWG
LAYOUT NAME - 010101_TI - TITLE SHEET 1 IN EQ 2 MI

PLOT DATE : 3/13/2018 7:41 AM

PLOT BY : ORNER, THOMAS EDWIN PLOT NAME :

WISDOT/CADDS SHEET 10

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

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

TEMPORARY STORAGE OF MATERIALS IN WETLANDS WILL NOT BE PERMITTED.

REMOVE RAISED PAVEMENT MARKERS PRIOR TO DIAMOND GRINDING.

RAISED PAVEMENT MARKERS ARE NOT REQUIRED WITHIN TYPE 4 ARROWS ON RAMPS

THE ASPHALTIC CONCRETE PAVEMENT REPAIR LOCATIONS AND LENGTHS AS SHOWN IN THE PLAN ARE APPROXIMATE. EXACT LOCATIONS AND LENGTHS ARE TO BE DETERMINED BY THE FIELD ENGINEER.

EXISTING 11-INCH CONCRETE PAVEMENT ON IH-43 IS NON-REINFORCED AND NON-DOWELED.

USE HMA PAVEMENT 3 LT 58-28S FOR SHOULDER WORK. USE HMA PAVEMENT 4 HT 58-28 S FOR MAINLINE ASPHALT PATCHES.

PAVEMENT GRADES ARE TO BE FIELD VERIFIED PRIOR TO REMOVALS.

DIAMOND GRIND ALL MAINLINE CONCRETE PAVEMENT ADJACENT TO ASPHALT SHOULDERS PRIOR TO PLACEMENT OF NEW HMA. THEN MATCH ASPHALT SHOULDER TO FINISHED GRADE OF MAINLINE.

LANE CLOSURES SHALL BE A MAXIMUM OF 4 MILES IN LENGTH AND AT LEAST 2 MILES APART AT ANY GIVEN TIME.

NOTIFY DIGGER'S HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGER'S HOTLINE SHALL BE CONTACTED SEPARATELY.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE, AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL.

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

EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

ORDER OF SHEETS

GENERAL NOTES

PROJECT OVERVIEW

TYPICAL SECTIONS

CONSTRUCTION DETAILS

PLAN DETAILS

PERMANENT SIGNING

PAVEMENT MARKING

TRAFFIC CONTROL

DETOUR PLAN

MISCELLANEOUS QUANTITIES

CROSS SECTIONS

HMA PAVING

LOCATION		THICKNESS	HMA PAVEMENT TYPE
LAW PAD	UPPER LAYER LOWER LAYER	2 1/2-INCH 2 1/2-INCH	3 LT 58-28 S
MEDIAN AND OUTSIDE SHLOULDER EXISTING 5" ASPHALT AREA (CORRECT EDGE DROP)	ONE LAYER	2-INCH	3 LT 58-28 S
MEDIAN AND OUTSIDE SHOULDER EXISTING 3" ASPHALT AREA	ONE LAYER	4-INCH	3 LT 58-28 S
PATCHES	ONE LAYER	1 1/2-INCH	4 HT 58-28 S
CROSSOVERS	ONE LAYER	4-INCH	ASPHALTIC SURFACE

UTILITIES

JAY BULANEK
AT&T WISCONSIN - COMMUNICATION LINE
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
(262) 896-7669
jb5175@att.com

KIRK THOELKE
CENTURYLINK COMMUNICATIONS, LLC - COMMUNICATION LINE
11111 DORSETT RD
MARYLAND HEIGHTS, MO 63043
(636) 887-4752
kirk.thoelke@centurylink.com

STEVEN CRAMER
CHARTER COMMUNICATIONS - COMMUNICATION LINE
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212-4002
(414) 277-4045
wis.engineering@twcable.com

JULIE LESAR
VILLAGE OF BELGIUM - CLERK
104 PETER THEIN AVE
BELGIUM, WI 53004
(262) 285-7931
jlesar@village.belgium.wi.us

JERRY DICKMANN
VILLAGE OF SAUKVILLE DEPARTMENT OF PUBLIC WORKS - WATER
1600 COTTONTAIL LA.
SAUKVILLE, WI 53080
(262) 284-3185
jdickmann@village.saukville.wi.us

NICOLE SMULLEN
WE ENERGIES - GAS OPERATIONS
333 W EVERETT ST - A299
MILWAUKEE, WI 53203
(414) 221-5617
nicole.smullen@we-energies.com

OSP NATIONAL SUPPORT/INVESTIGATIONS
VERIZON BUSINESS DIVISION
2400 N GLENVILLE
RICHARDSON, TX 75082
(972) 729-6322
investigations@verizon.com

RUSS RYAN
FRONTIER COMMUNICATIONS OF WI LLC - COMMUNICATION LINE
107 PLEASANTVIEW DR
PLYMOUTH, WI 53073
(920) 893-7212
Russell.w.ryan@ftr.com

RAY DEBRUIJN
VILLAGE OF SAUKVILLE DEPARTMENT OF PUBLIC WORKS - ROAD FACILITY
649 S. MAIN ST.
SAUKVILLE, WI 53080
(262) 284-0545
rdebruijn@village.saukville.wi.us

DANIEL BIRENBAUM
VILLAGE OF BELGIUM - DPW
195 COMMERCE ST
BELGIUM, WI 53004
(262) 285-7931
dbirenbaum@village.belgium.wi.us

JERRY DICKMANN
VILLAGE OF SAUKVILLE DEPARTMENT OF PUBLIC WORKS - SEWER
1600 COTTONTAIL LA.
SAUKVILLE, WI 53080
(262) 284-3185
jdickmann@village.saukville.wi.us

NICOLE SMULLEN
WE ENERGIES - ELECTRIC
333 W EVERETT ST - A299
MILWAUKEE, WI 53203
(414) 221-5617
nicole.smullen@we-energies.com

MIKE OLSEN
ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION
801 O'KEEFE RD
P.O. BOX 6113
DE PERE, WI 54115-6113
(920) 338-6582
molsen@atcllc.com

MELANIE FLYNN
MILWAUKEE COUNTY TRANSIT SYSTEM-ROUTES
1942 N. 17TH ST.
MILWAUKEE, WI 53205
(414) 343-1764
mflynn@mcts.org

SERGEANT JOHN D. WOLFE
WISCONSIN STATE PATROL
SOUTHEAST REGION HEADQUARTERS
21115 E. MORELAND BLVD.
WAUKESHA, WI 53186
414-750-4213
john.wolfe@dot.wi.gov

DNR CONTACT

KRISTINA BETZOLD
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
2300 N. MARTIN LUTHER KING, JR. DRIVE
MILWAUKEE, WI 53212
(414) 507-4946
Kristina.Betzold@wisconsin.gov

WISDOT CONTACTS

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

ERIC PEREA
WISCONSIN DEPARTMENT OF TRANSPORTATION - STREET LIGHTING
141 NW BARSTOW STREET
WAUKESHA, WI 53087-0798
(262) 574-5422
Eric.Perea@dot.wi.gov

DAVID BRANTNER
WISCONSIN DEPARTMENT OF TRANSPORTATION - SIGNALS
141 NW BARSTOW ST
P.O. BOX 798
WAUKESHA, WI 53187-0798
(262) 548-8736
david.brantner@dot.wi.gov

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

2

BEGIN PROJECT 1450-03-71
STA. 829+70
X = 602302.58
Y = 2407091.57

EQUATION:
PI STA. 887+51.64 BK=
PI STA. 89+71.50 AHD

NET EXCEPTION B-45-0037
STA. 279+73 – STA. 283+44 SB

NET EXCEPTION B-45-0040
STA. 364+30 – STA. 369+10 NB
NET EXCEPTION B-45-0041
STA. 364+00 – STA. 368+10 SB

END PROJECT 1450-03-71
STA. 977+29.01

NET EXCEPTION B-45-0050
STA. 595+98 – STA. 598+97 NB
NET EXCEPTION B-45-0051
STA. 595+35 – STA. 598+55 SB

NET EXCEPTION B-45-0034 & 0035
STA. 219+20 – STA. 221+20

EQUATION:
EP STA. 308+44.47 NB BK=
EP STA. 315+63.56 SB BK =
BP STA. 325+74.08 AHD

NET EXCEPTION B-45-0044
STA. 425+60 – STA. 428+90 NB
NET EXCEPTION B-45-0043
STA. 425+90 – STA. 429+25 SB

NET EXCEPTION B-45-0046 & 0047
STA. 482+10 – STA. 483+85

NET EXCEPTION B-45-0048
STA. 571+00 – STA. 574+80 NB
NET EXCEPTION B-45-0049
STA. 572+80 – STA. 576+00 SB

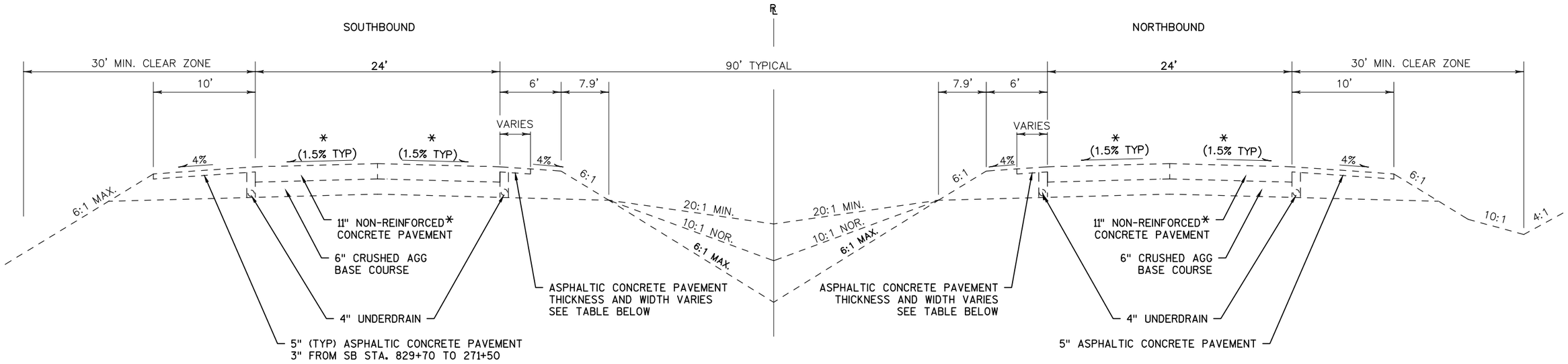
NET EXCEPTION B-45-0058
STA. 917+50 – STA. 919+07 NB
NET EXCEPTION B-45-0057
STA. 917+29 – STA. 918+80 SB

NET EXCEPTION B-45-0061
STA. 976+58 – STA. 977+29.01 NB
NET EXCEPTION B-45-0060
STA. 976+33 – STA. 977+29.01 SB

N

STH 57
CTH V
ARROWHEAD RD
STH 60
CTH W
CTH Q
GRAFTON
103+08
ULAO PKWY
158+30
SAUK RD
STH 32
220+15
STH 33
CTH LL
NORTHWOODS RD
MINK RANCH RD
306+40
WILLOW RD
Knellsville
CTH B
398+75
CTH C
CTH CC
CTH H
PORT WASH.
Sauk Cr.
BELGIUM
CTH KW
451+60
483+00
HIGHLAND DR
LAKE RD
597+30
DIXIE RD
649+10
SANDY BEACH RD
CEDAR BEACH RD
CTH D
865+25
JAYRD
CTH K
573+50
CTH LL
43
Sucker Cr.
CTH P
LAKE
CHURCH RD
702+40
755+50
808+65
SILVER BEACH RD
918+15
PEBBLE BEACH RD
Lake Michigan

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PROJECT OVERVIEW	SHEET 4	E



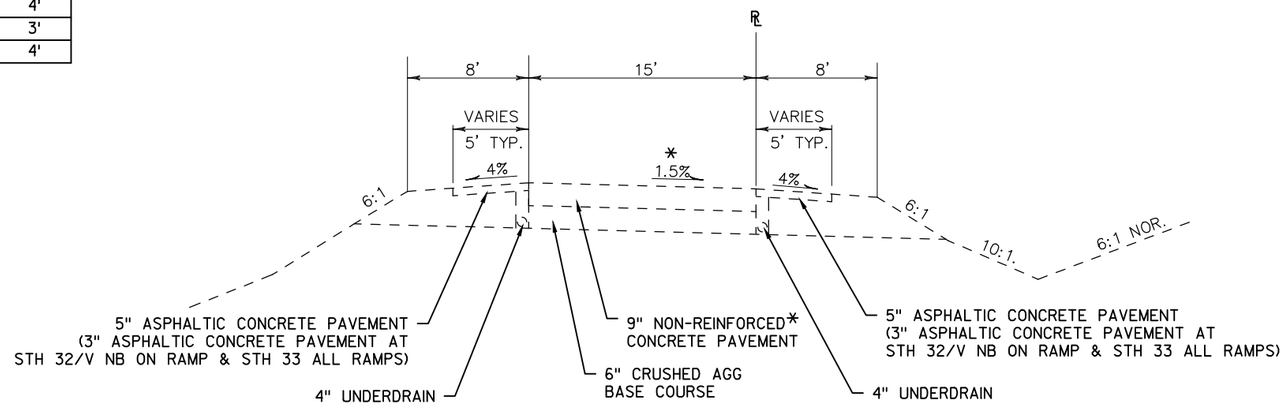
EXISTING TYPICAL SECTION INTERSTATE 43

STH 32 TO NORTH OZAUKEE COUNTY LINE

* EXISTING CONCRETE PAVEMENT PREVIOUSLY DIAMOND GROUND IN 1989 AND 1998, NO LOAD TRANSFER DOWELS; NO TIE BARS.

SB-MEDIAN SHOULDER	THICKNESS	WIDTH
STA. 829+70 - 207+50	3"	3'
STA. 207+50 - 237+25	5"	4'
STA. 237+25 - 274+50	3"	3'
STA. 274+50 - 300+50	5"	4'
STA. 300+50 - 423+50	3"	3'
STA. 423+50 - 447+00	5"	4'
STA. 447+00 - 476+50	3"	3'
STA. 476+50 - 495+25	5"	4'
STA. 495+25 - 567+00	3"	3'
STA. 567+00 - 615+25	5"	4'
STA. 615+25 - 752+75	3"	3'
STA. 752+75 - 977+29	5"	4'

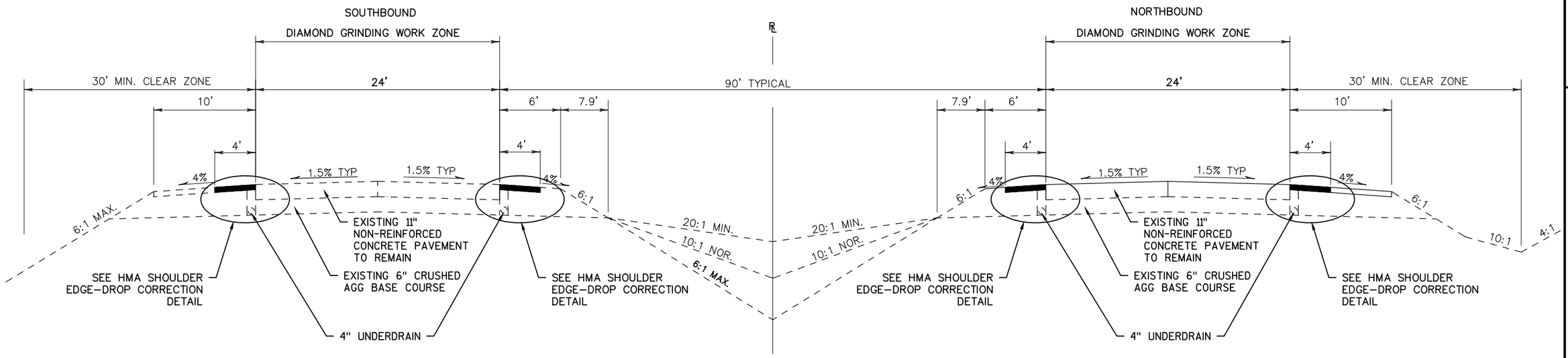
NB-MEDIAN SHOULDER	THICKNESS	WIDTH
STA. 829+70 - 202+00	3"	3'
STA. 202+00 - 235+50	5"	4'
STA. 235+50 - 407+00	3"	3'
STA. 407+00 - 491+50	5"	4'
STA. 491+50 - 552+50	3"	3'
STA. 552+50 - 603+00	5"	4'
STA. 603+00 - 754+00	3"	3'
STA. 754+00 - 977+29	5"	4'



EXISTING TYPICAL SECTION RAMP

STH 32/CTH V INTERCHANGE
STH 33 INTERCHANGE
STH 32/CTH H INTERCHANGE
STH D INTERCHANGE

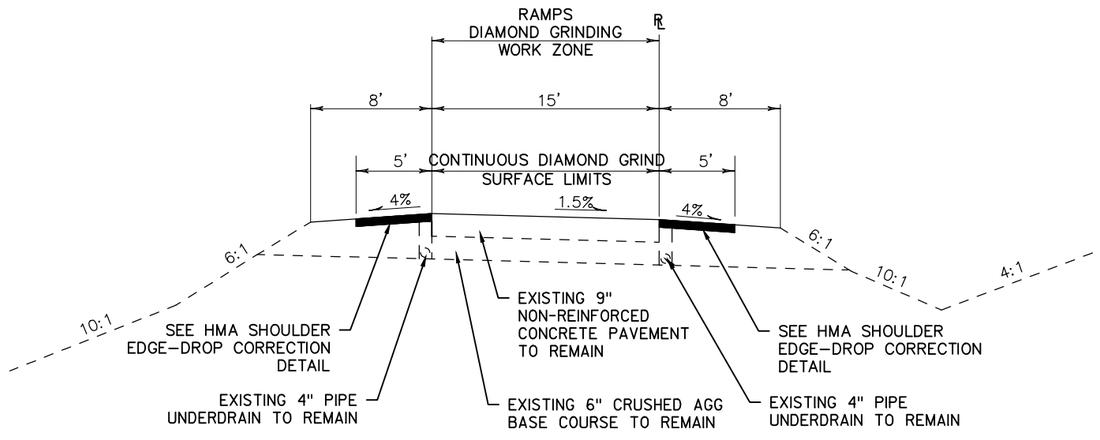
PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	EXISTING TYPICAL SECTION	SHEET 5	E



TYPICAL FINISHED SECTION INTERSTATE 43

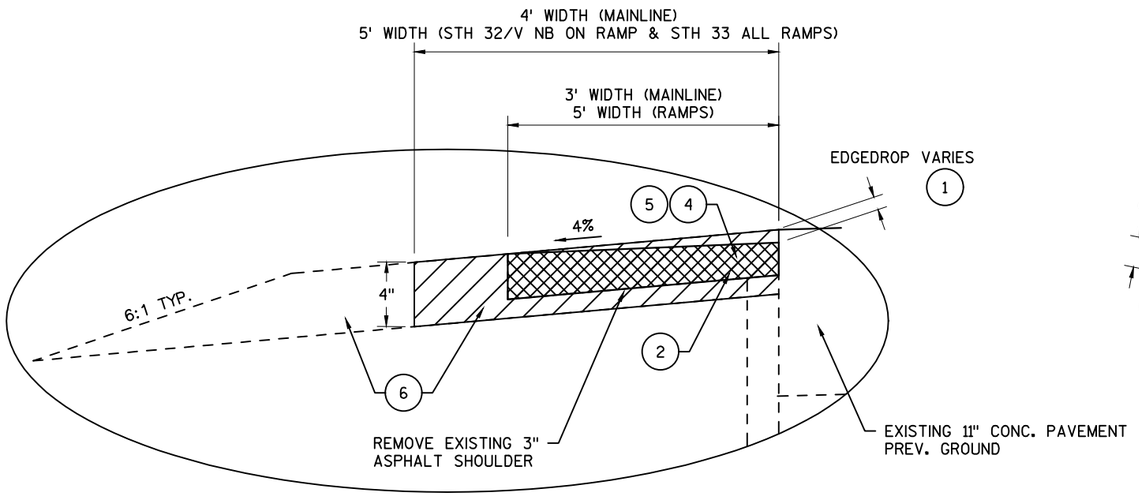
STH 32 TO NORTH OZAUKEE COUNTY LINE
BEGIN STA. 829+70 TO END STA. 977+29.01

STATION EQUATION: PI STA. 887+51.64 BK = PI STA. 89+71.50 AHEAD
STATION EQUATION: PI STA. 308+44.47 NB BK = PI STA. 315+63.56 SB BK = PI STA. 325+74.08 AHEAD



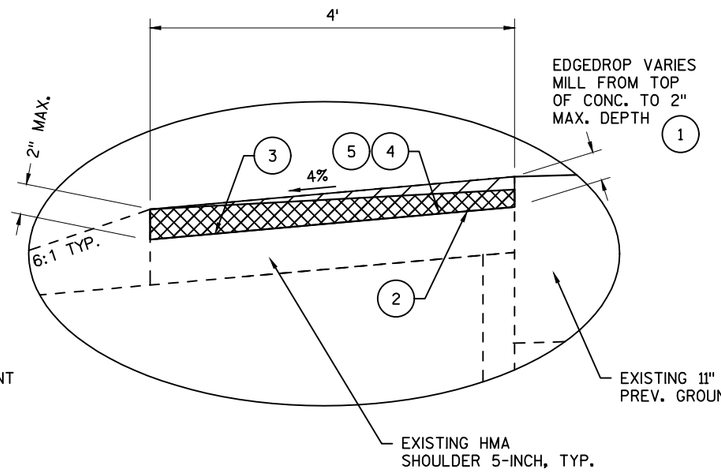
TYPICAL FINISHED SECTION RAMP

STH 32/CTH V INTERCHANGE
STH 33 INTERCHANGE
STH 32/CTH H INTERCHANGE
STH D INTERCHANGE



MEDIAN SHOULDER (EXISTING 3" THICKNESS)

STH 32/V NB ON RAMP LT & RT
STH 33 ALL RAMPS LT & RT
SEE SHOULDER OVERVIEW



MEDIAN SHOULDER (EXISTING 5" THICKNESS)

SEE SHOULDER OVERVIEW

EXISTING 5" MEDIAN SHOULDER

SB
207+40 TO 237+10
274+50 TO 300+50
423+50 TO 446+90
476+50 TO 495+30
567+00 TO 615+30
752+80 TO 977+29.01

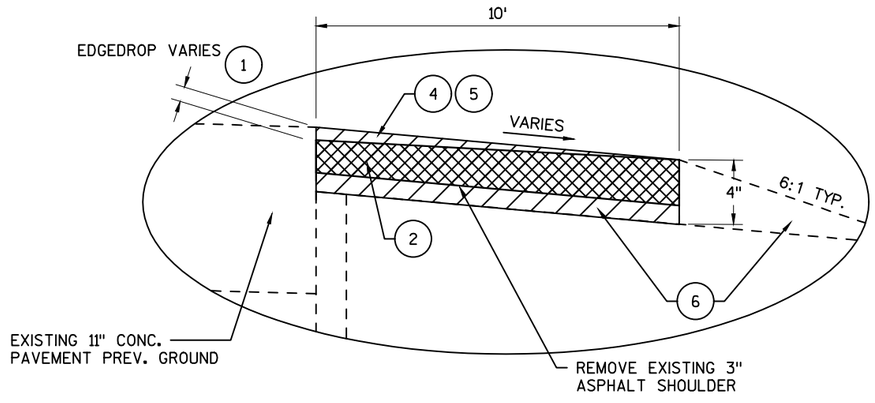
NB
202+10 TO 235+30
406+90 TO 491+60
552+50 TO 603+00
754+40 TO 977+29.01

LEGEND

1. DIAMOND GRIND EXISTING CONCRETE PAVEMENT PRIOR TO SHOULDER EDGE DROP CORRECTION.
2. REMOVE EXISTING RUMBLE STRIPS AND SPECIFIED THICKNESS OF ASPHALTIC SHOULDER. PAID AS REMOVING ASPHALTIC SURFACE MILLING.
3. PLACE TACK COAT.
4. IN ONE LIFT, PLACE SPECIFIED THICKNESS HMA TYPE 3 LT 58-28-S. MATCH HMA SHOULDER SURFACE TO NEWLY GROUND CONCRETE SURFACE. NEW CROSS SLOPE ON OUTSIDE SHOULDER VARIES.
5. INSTALL RUMBLE STRIPS.
6. TO BE PAID FOR AS "PREPARE FOUNDATION FOR ASPHALTIC SHOULDER".

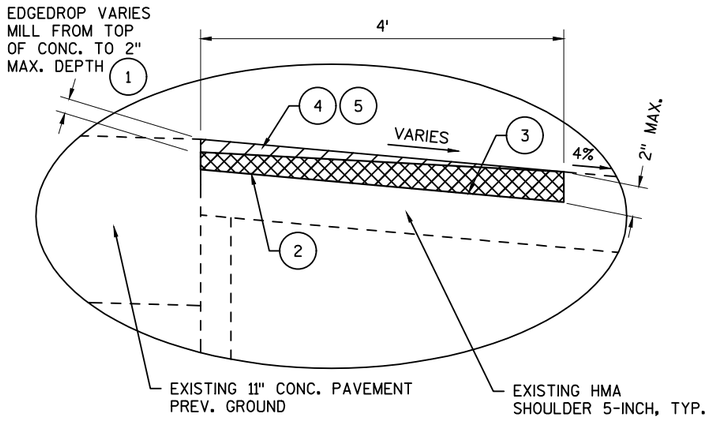
ASPHALT REMOVAL

ASPHALT REPLACEMENT



OUTSIDE SHOULDER (EXISTING 3" THICKNESS)

SB STA. 829+70 TO 271+50
SEE SHOULDER OVERVIEW



OUTSIDE SHOULDER (EXISTING 5" THICKNESS)

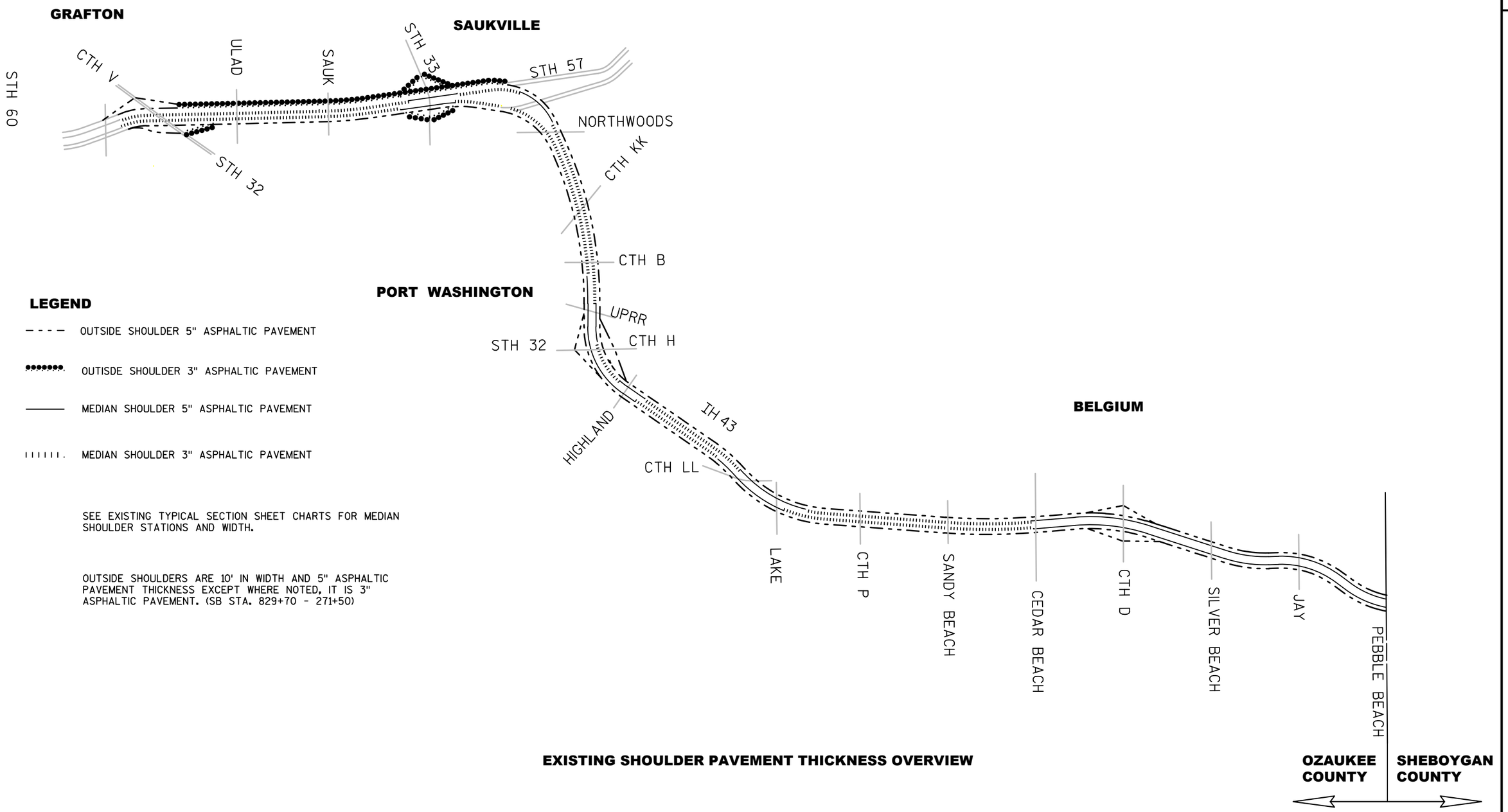
SEE SHOULDER OVERVIEW

HMA SHOULDER EDGE-DROP CORRECTION DETAIL

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	CONSTRUCTION DETAIL	SHEET 7	E

2

N



EXISTING SHOULDER PAVEMENT THICKNESS OVERVIEW

LEGEND

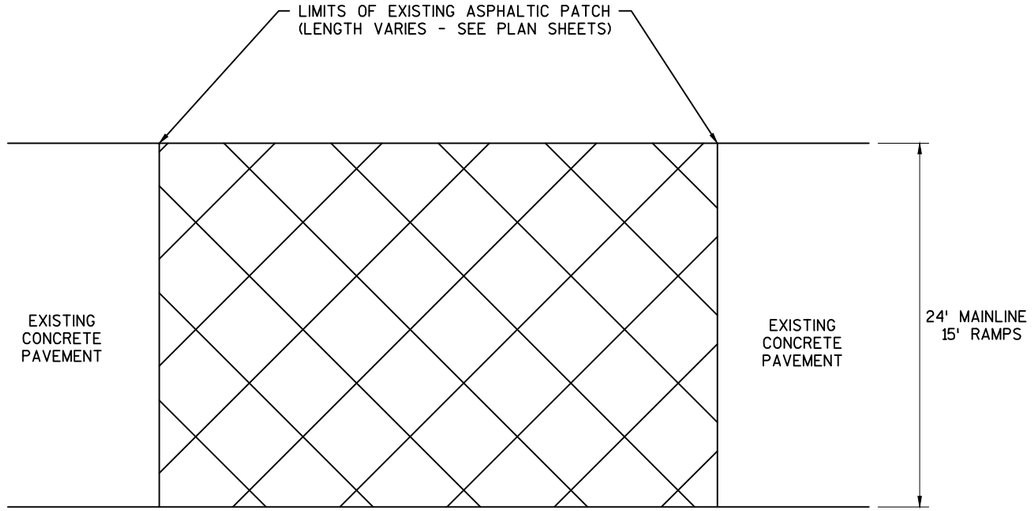
- – – – OUTSIDE SHOULDER 5" ASPHALTIC PAVEMENT
- ••••••• OUTISDE SHOULDER 3" ASPHALTIC PAVEMENT
- ——— MEDIAN SHOULDER 5" ASPHALTIC PAVEMENT
- ' ' ' ' ' ' ' MEDIAN SHOULDER 3" ASPHALTIC PAVEMENT

SEE EXISTING TYPICAL SECTION SHEET CHARTS FOR MEDIAN SHOULDER STATIONS AND WIDTH.

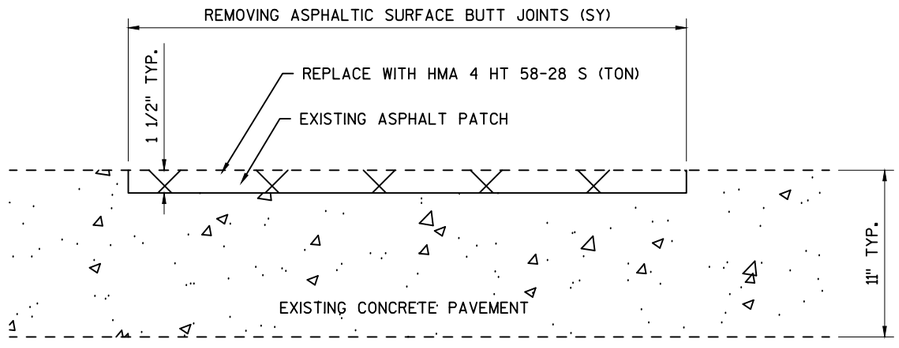
OUTSIDE SHOULDERS ARE 10' IN WIDTH AND 5" ASPHALTIC PAVEMENT THICKNESS EXCEPT WHERE NOTED, IT IS 3" ASPHALTIC PAVEMENT. (SB STA. 829+70 - 271+50)

PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	CONSTRUCTION DETAIL: EXISTING SHOULDER OVERVIEW	SHEET 8	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\021001A_CD_SHLDR_OVRW.DWG
LAYOUT NAME - 021001A_CD_SHLDR_OVRW
PLOT DATE : 1/29/2018 1:25 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : Custom
WISDOT/CADDS SHEET 42

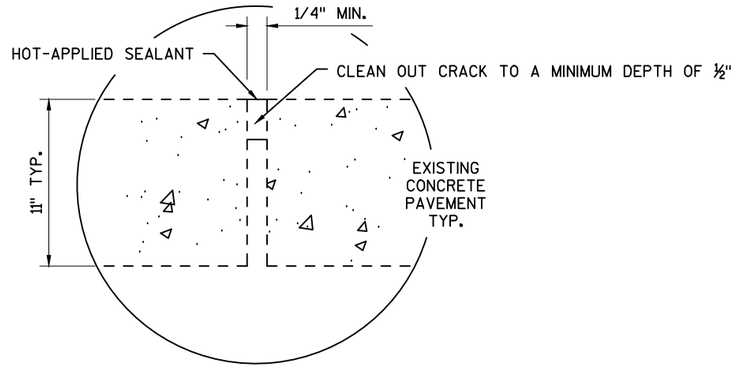


PLAN VIEW

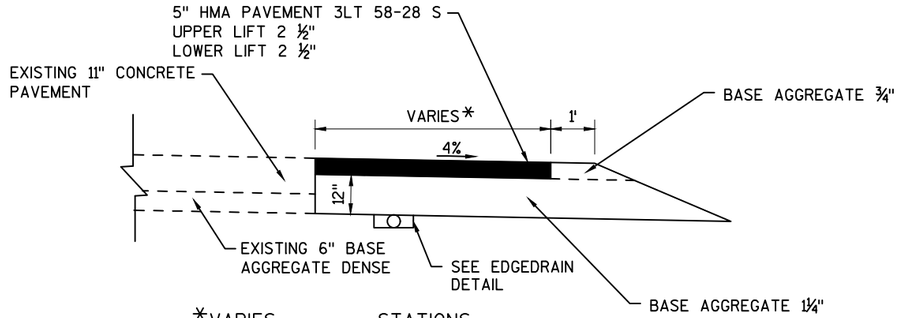


PROFILE VIEW

ASPHALTIC PATCH REPLACEMENT DETAIL

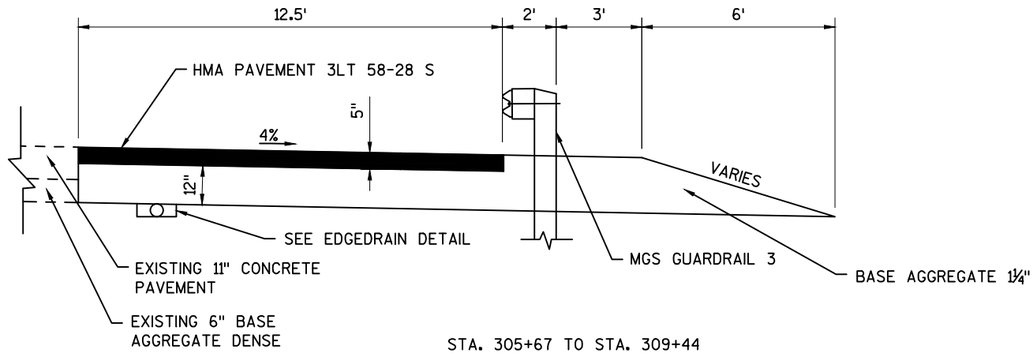


SEALING CRACKS AND JOINTS DETAIL

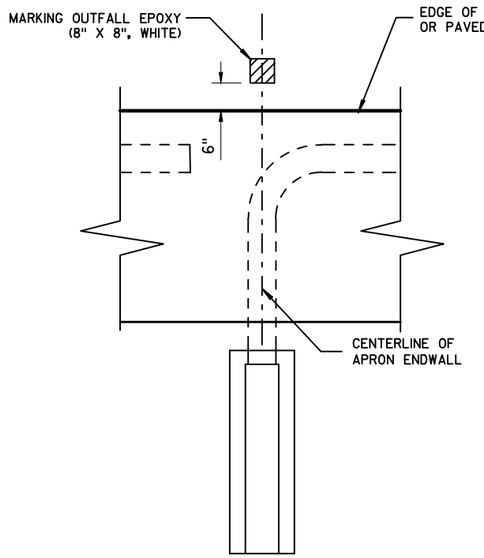


*VARIES STATIONS

6'	STA. 300+57 TO STA. 303+77
6'-31.5'	STA. 303+77 TO STA. 305+32
31.5'	STA. 305+32 TO STA. 305+67

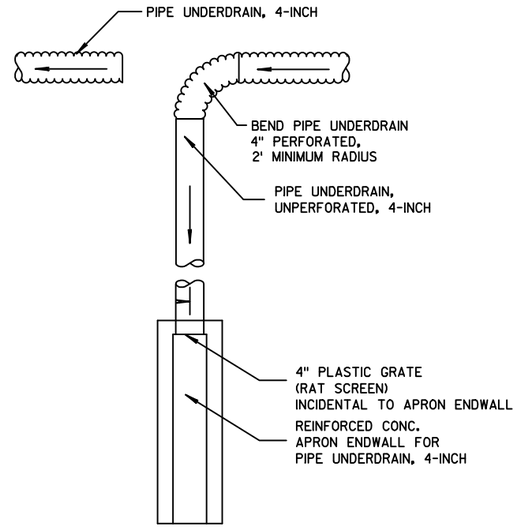


STA. 305+67 TO STA. 309+44



PLAN VIEW

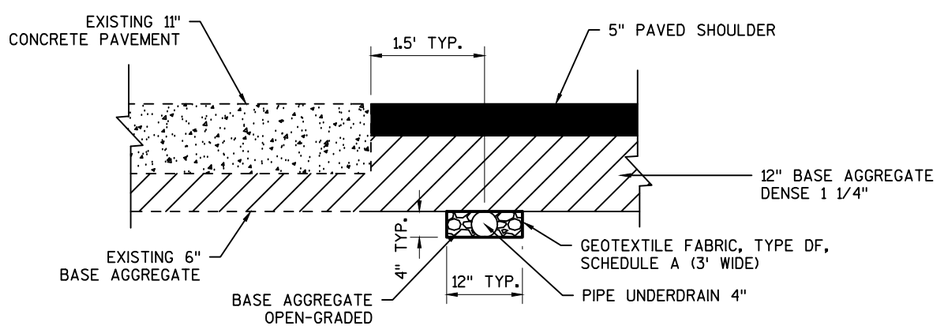
PAVEMENT MARKING
FOR OUTLET MARKERS



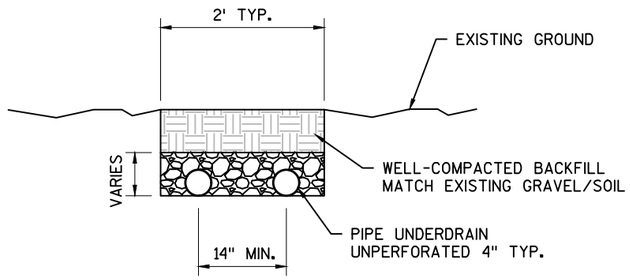
DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

EDGEDRAIN OUTLET DETAILS

TYPICAL SECTIONS LAW ENFORCEMENT PAD

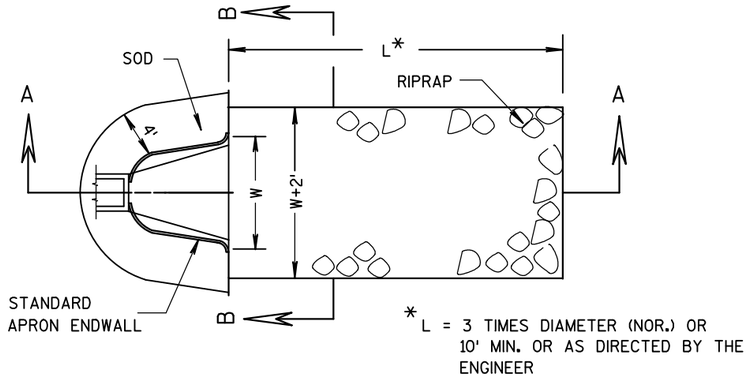


EDGEDRAIN DETAIL

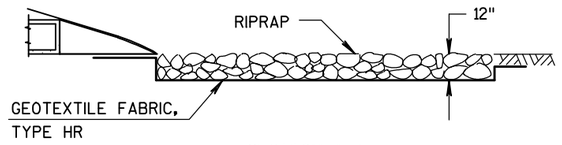


TRENCH FOR OUTFALL PIPE

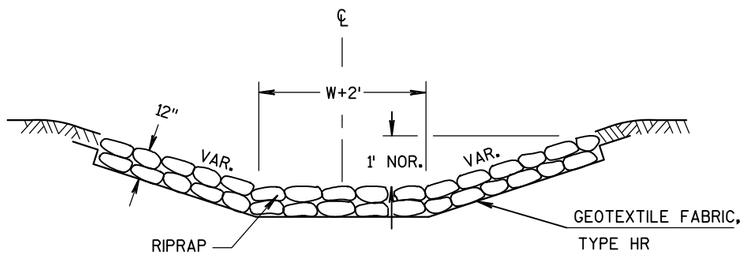
LAW ENFORCEMENT PAD - PAVEMENT SECTION AND PIPE UNDERDRAIN DETAIL EDGEDRAIN DETAIL



* L = 3 TIMES DIAMETER (NOR.) OR 10' MIN. OR AS DIRECTED BY THE ENGINEER

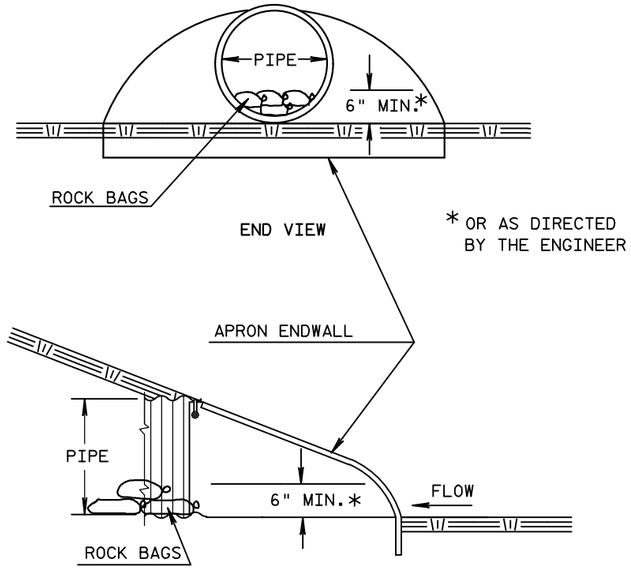


SECTION A-A



SECTION B-B

SOD, RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

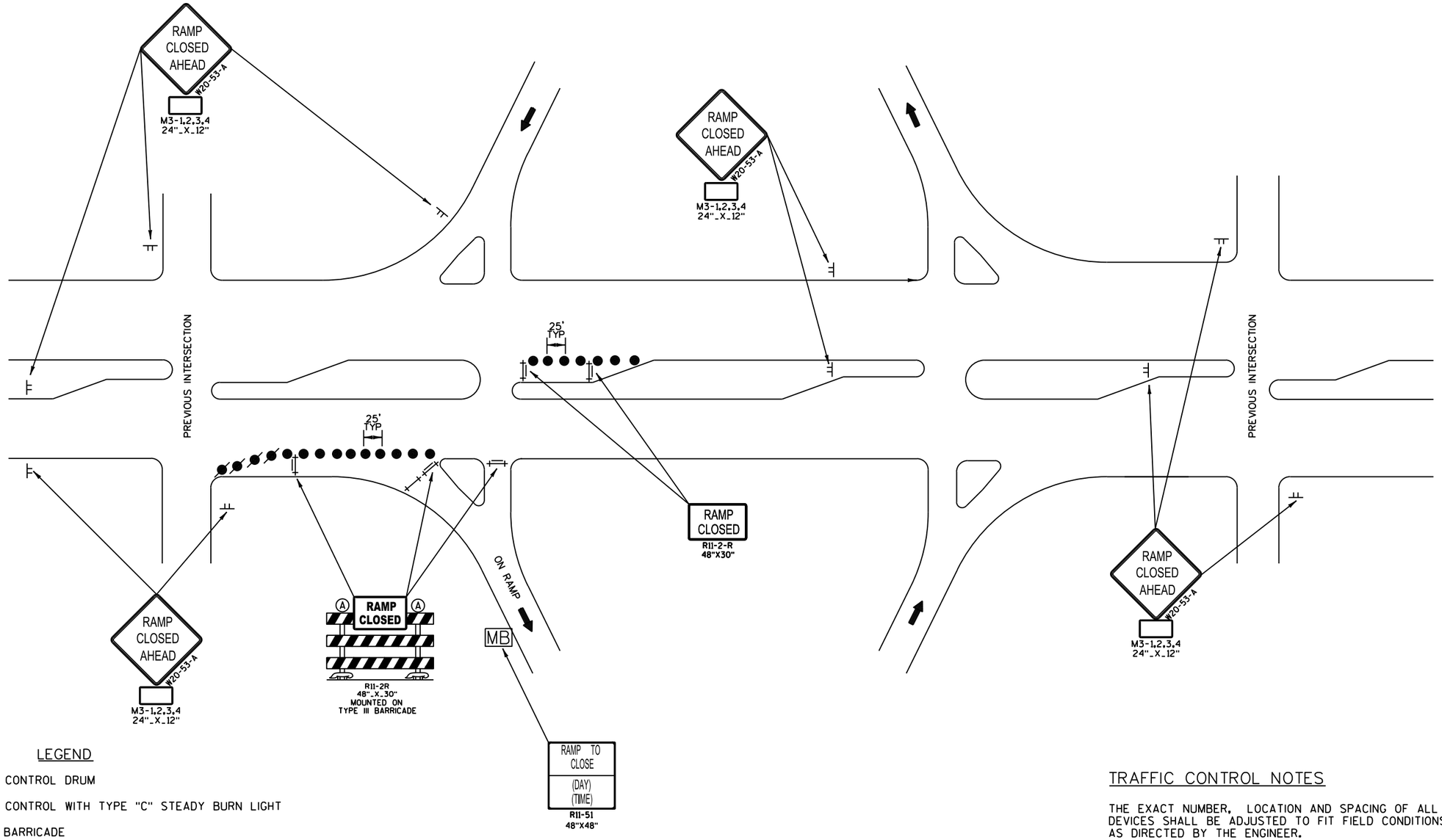


SIDE VIEW

CULVERT PIPE CHECK

ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NUMBER OF BAGS
18"	2

2



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH 2 TYPE "A" WARNING LIGHT (FLASHING)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL FOR ENTRANCE/EXIT RAMP CLOSURE
SHORT TERM ONLY

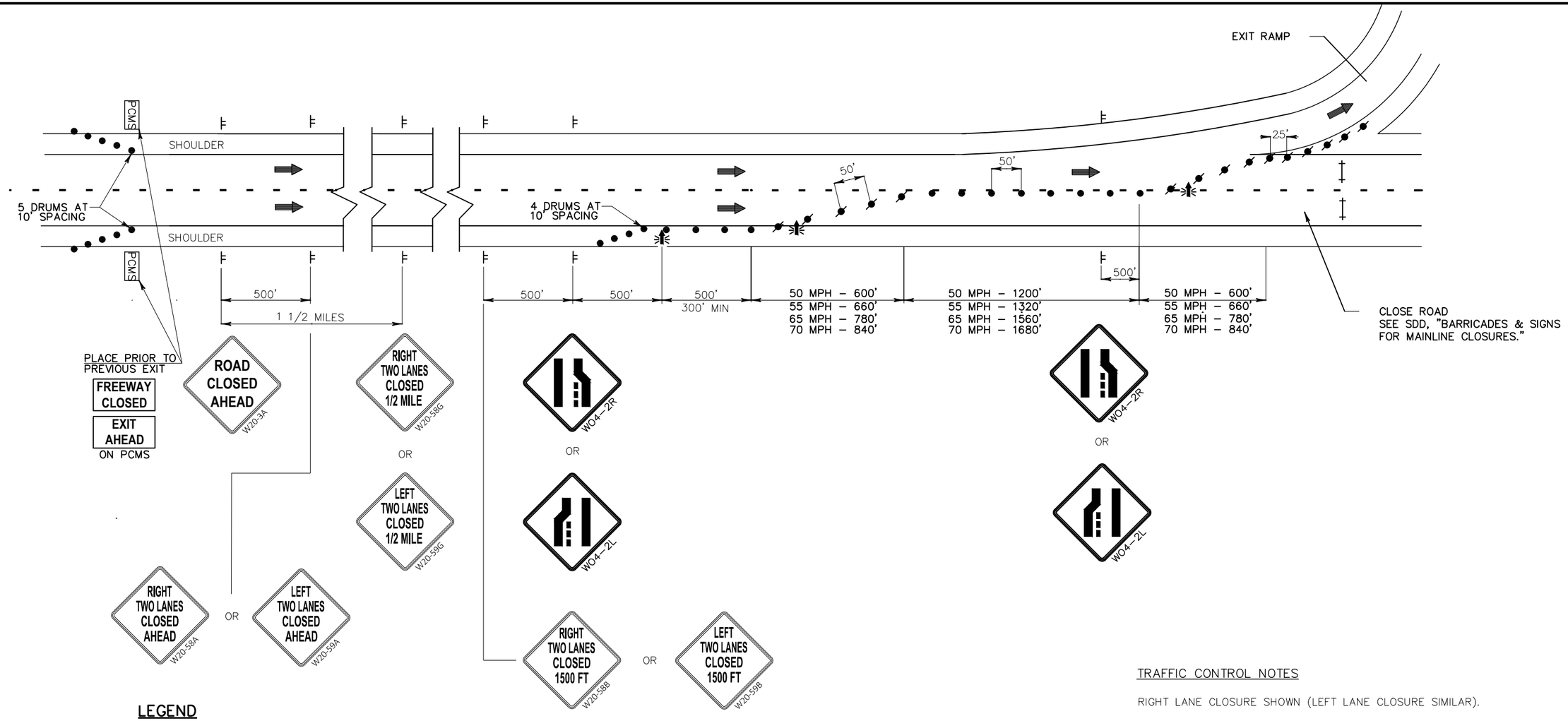
TRAFFIC CONTROL NOTES

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

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

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

SHORT TERM DEFINED AS 7 DAYS OR LESS. FOR NIGHT TIME OPERATIONS ALL DRUMS IN TAPERS SHALL HAVE WARNING LIGHT, TYPE C (STEADY BURN). MAY BE APPLIED TO ARTERIALS OR LOCAL ROADS.



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)
- TYPE III BARRICADE WITH SIGN WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- PCMS TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

TWO LANE FULL FREEWAY CLOSURE

TRAFFIC CONTROL NOTES

RIGHT LANE CLOSURE SHOWN (LEFT LANE CLOSURE SIMILAR).

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

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN).

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

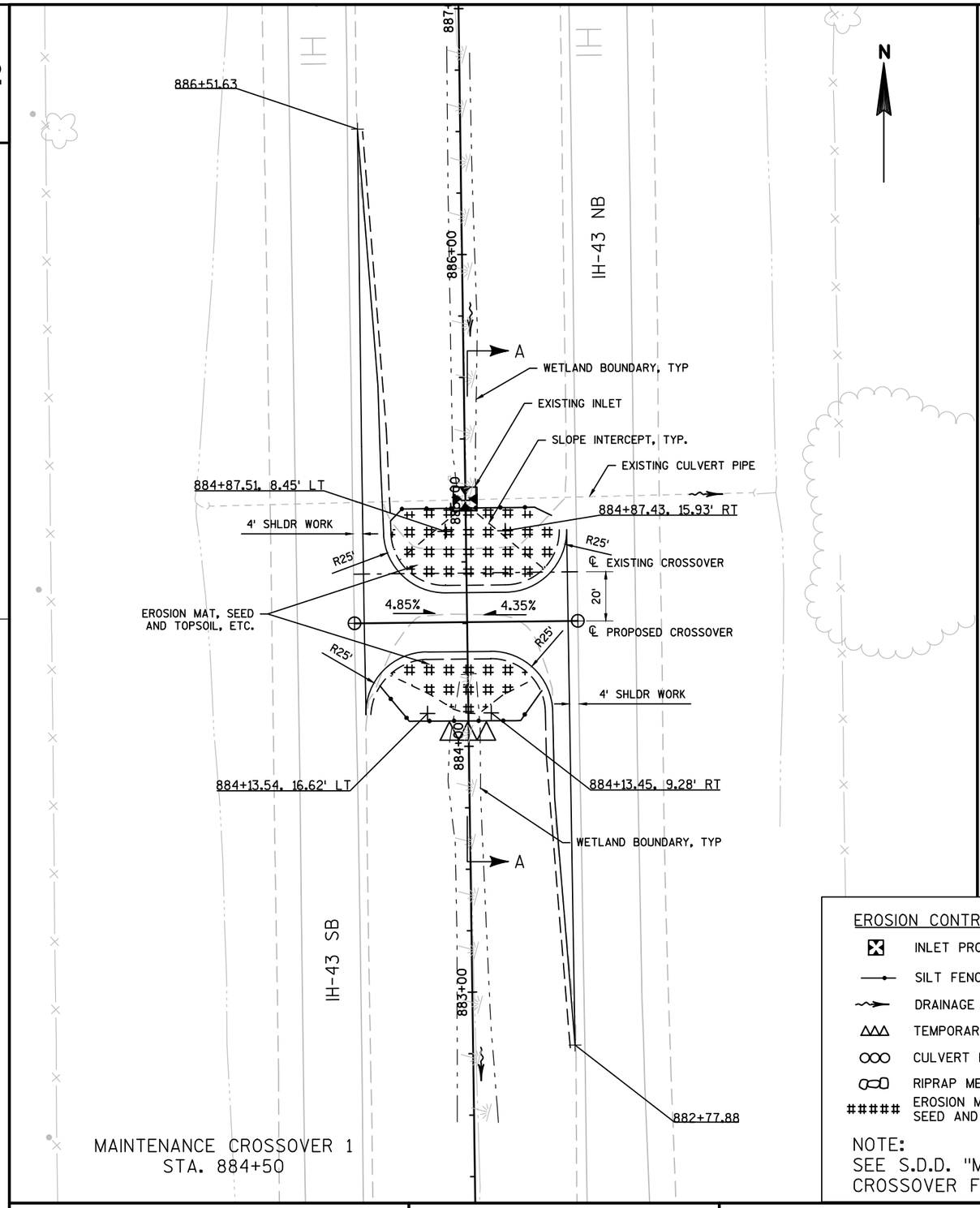
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROL SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

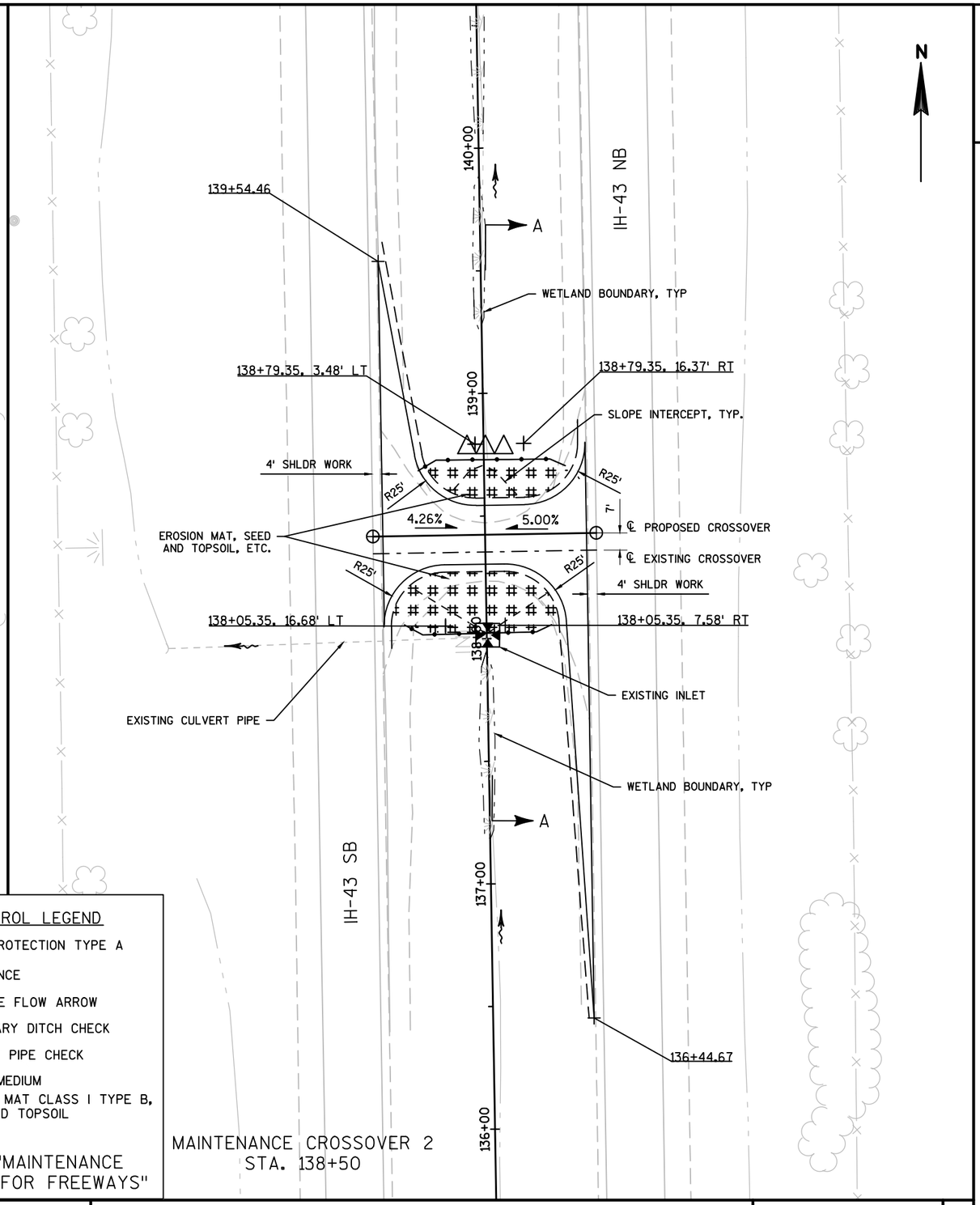
IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS EACH CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS, WITH LANE CLOSED SIGN.

REFER TO DETOUR ROUTES FOR TRAFFIC CLOSING SIGNS.



MAINTENANCE CROSSOVER 1
STA. 884+50



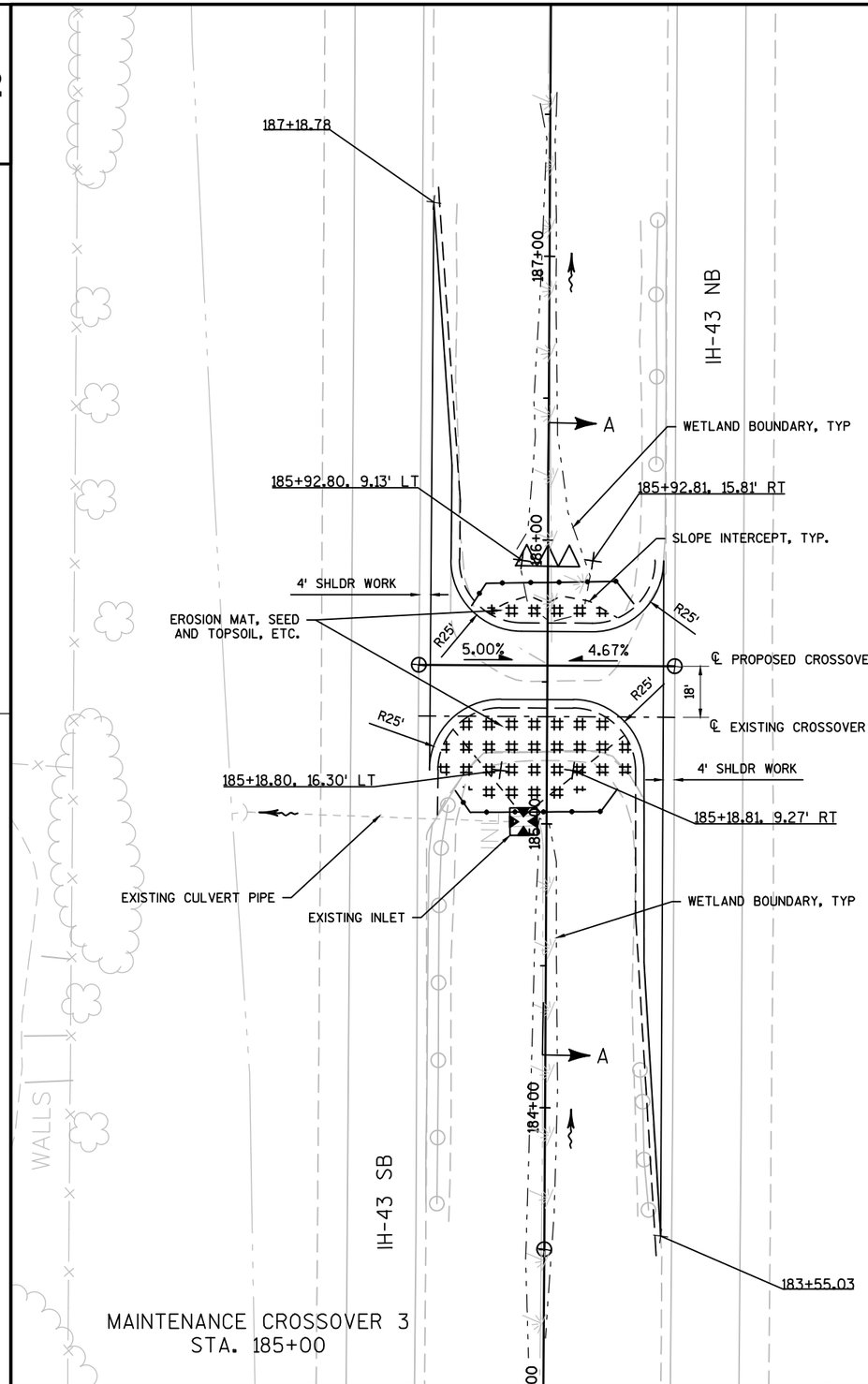
MAINTENANCE CROSSOVER 2
STA. 138+50

EROSION CONTROL LEGEND

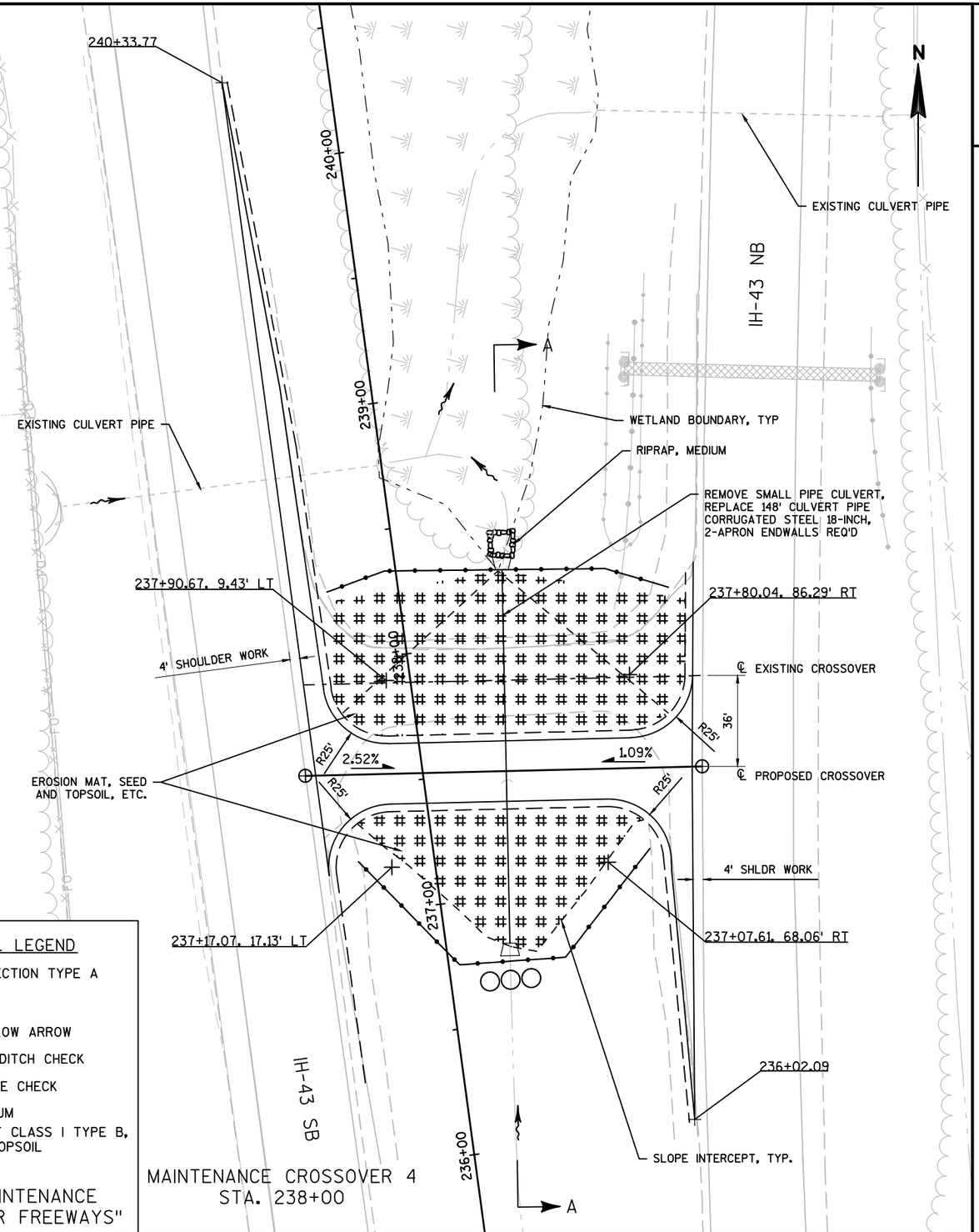
- INLET PROTECTION TYPE A
- SILT FENCE
- DRAINAGE FLOW ARROW
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- ##### EROSION MAT CLASS I TYPE B, SEED AND TOPSOIL

NOTE:
SEE S.D.D. "MAINTENANCE CROSSOVER FOR FREEWAYS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CONSTRUCTION DETAILS: MAINT. CROSSOVER & EROSION CONTROL	SHEET 14	E



MAINTENANCE CROSSOVER 3
STA. 185+00



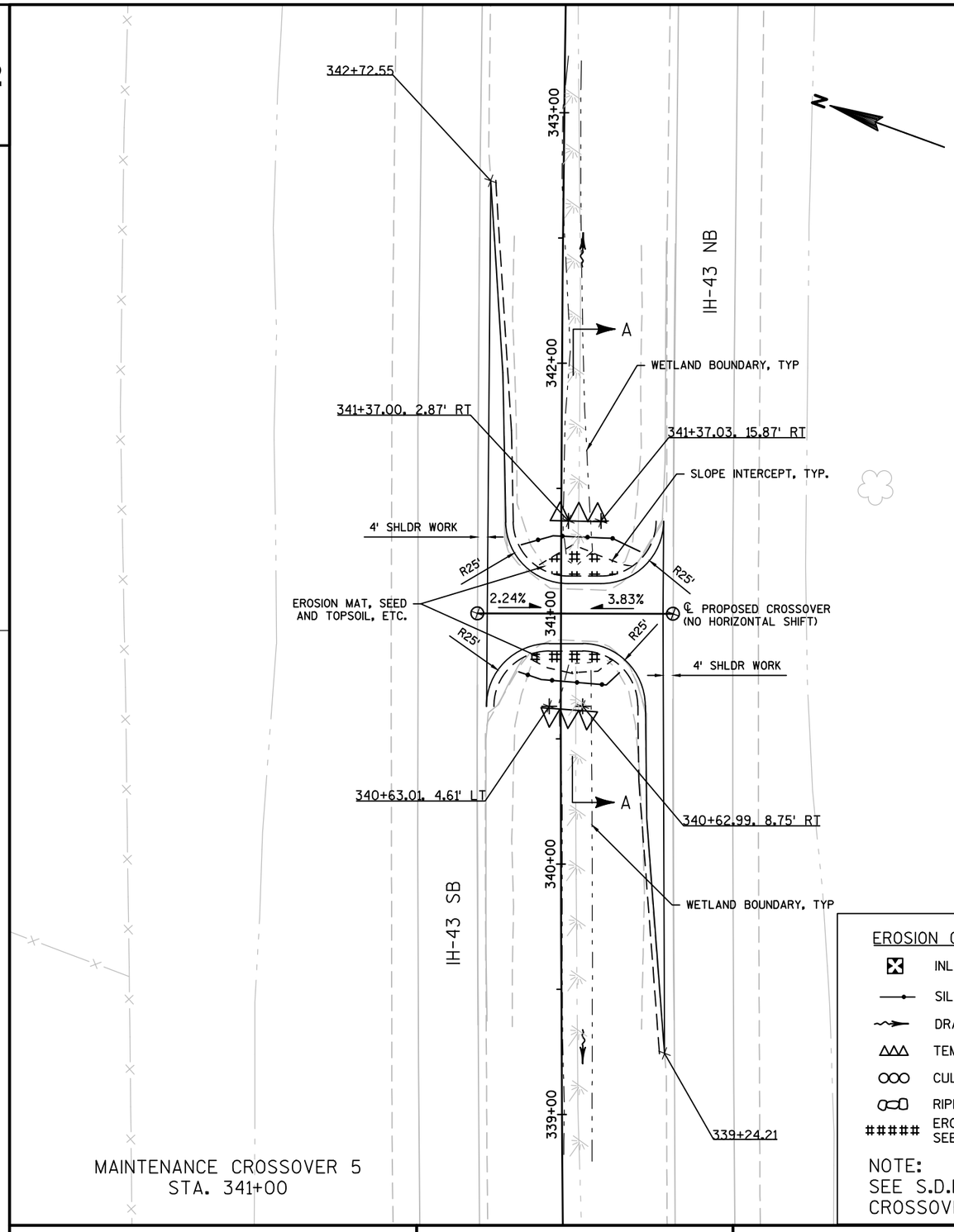
MAINTENANCE CROSSOVER 4
STA. 238+00

EROSION CONTROL LEGEND

- INLET PROTECTION TYPE A
- SILT FENCE
- DRAINAGE FLOW ARROW
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- ##### EROSION MAT CLASS I TYPE B, SEED AND TOPSOIL

NOTE:
SEE S.D.D. "MAINTENANCE CROSSOVER FOR FREEWAYS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CONSTRUCTION DETAILS: MAINT. CROSSOVER & EROSION CONTROL	SHEET 15	E

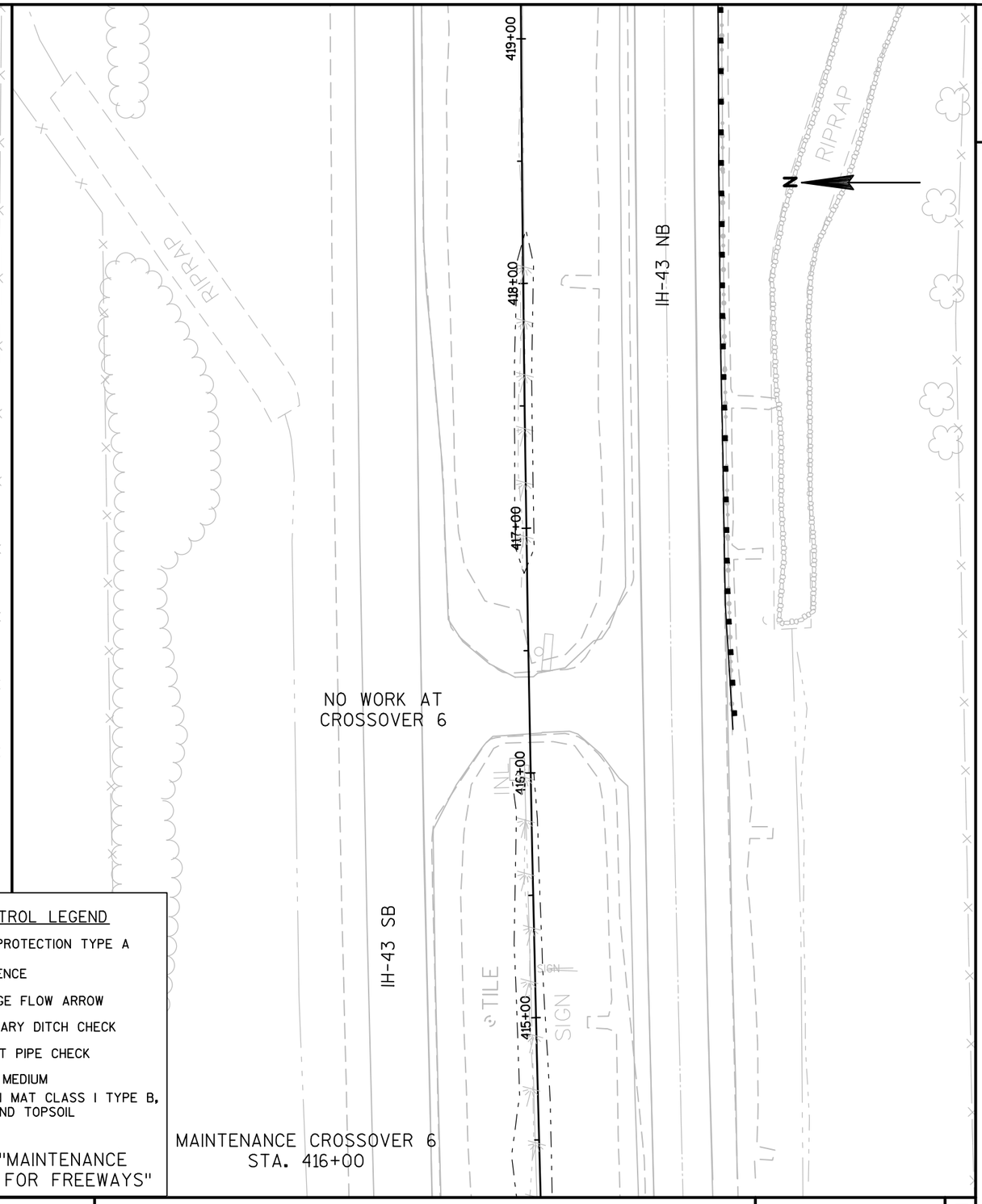


MAINTENANCE CROSSOVER 5
STA. 341+00

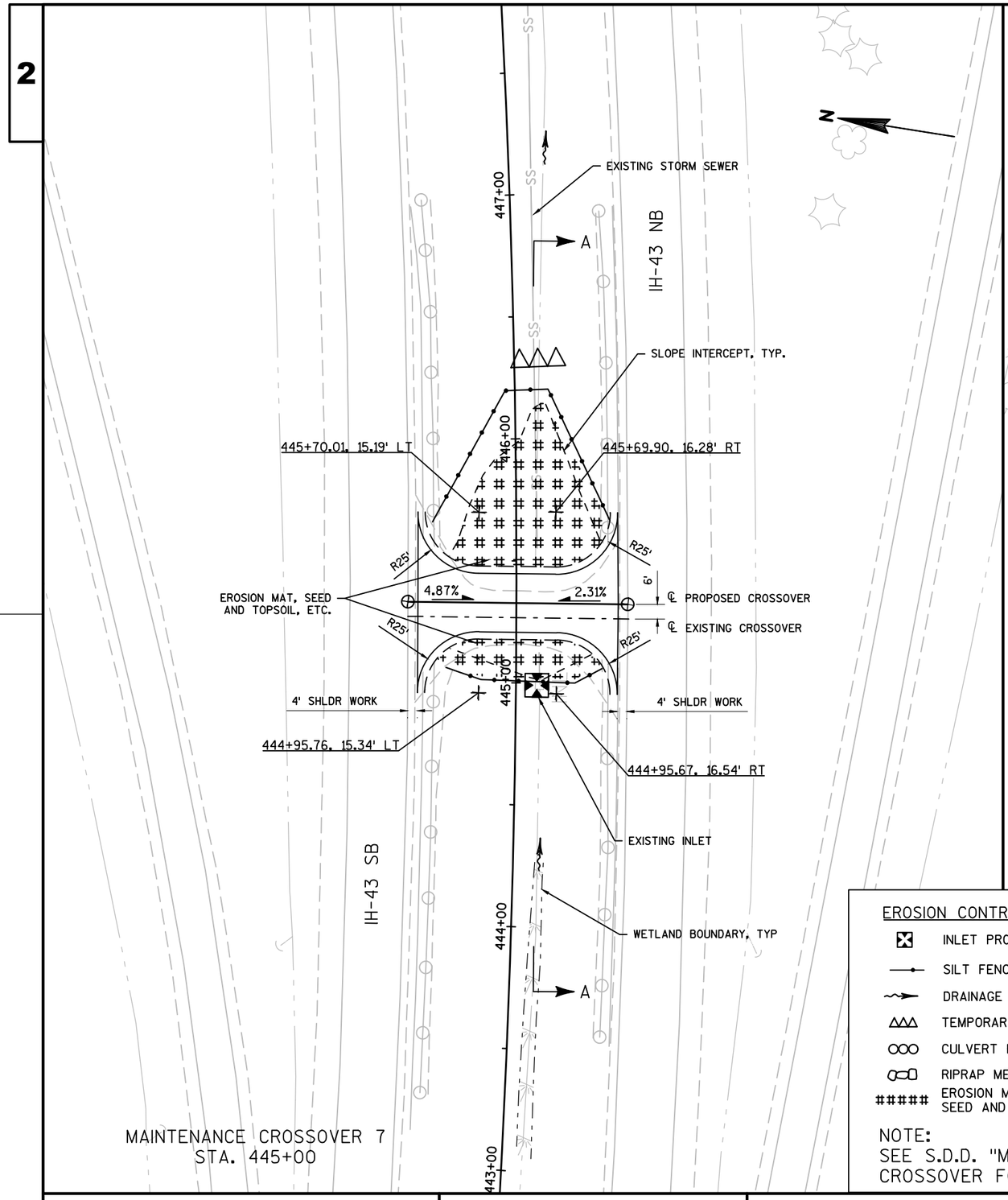
EROSION CONTROL LEGEND

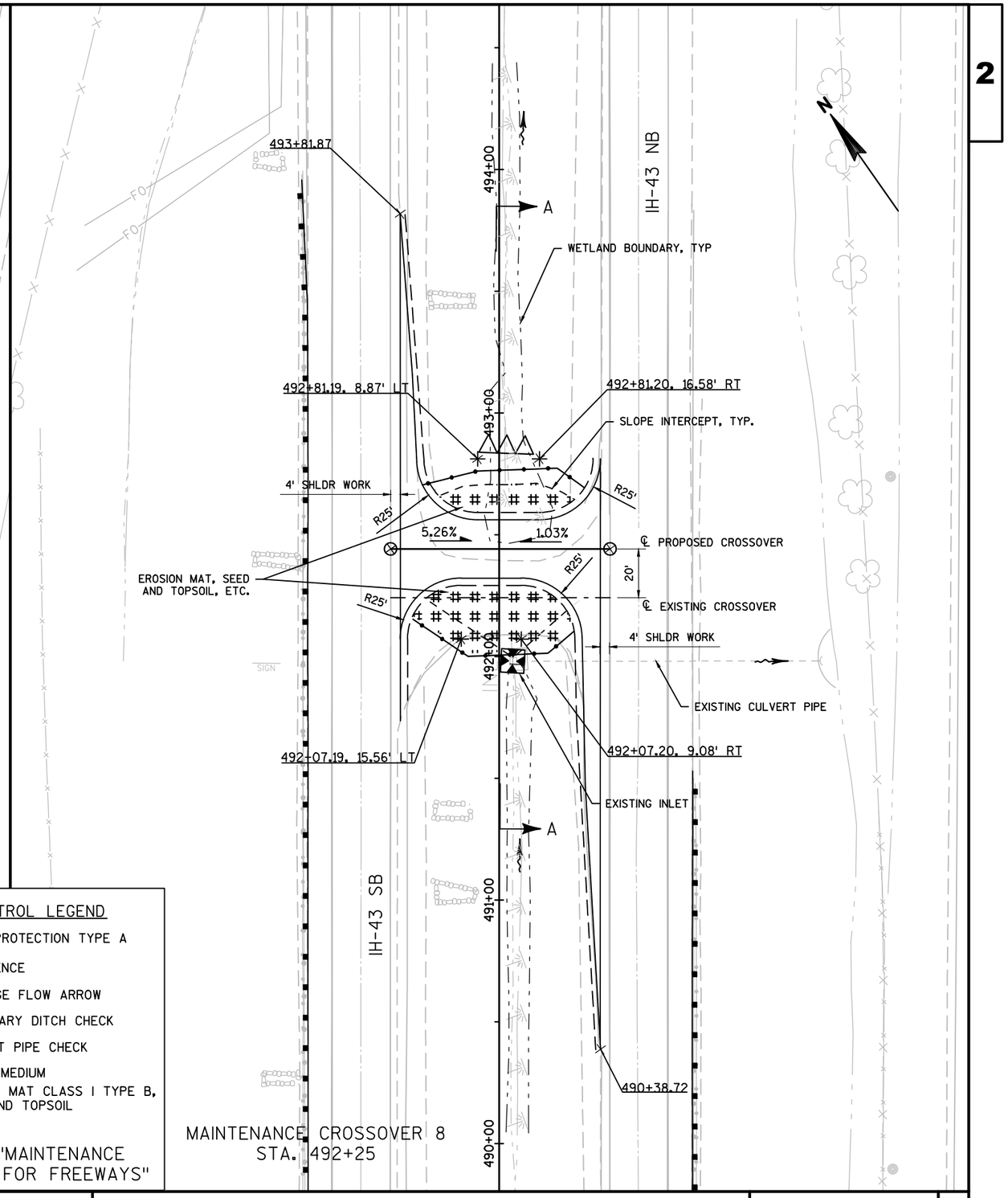
- INLET PROTECTION TYPE A
- SILT FENCE
- DRAINAGE FLOW ARROW
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- ##### EROSION MAT CLASS I TYPE B, SEED AND TOPSOIL

NOTE:
SEE S.D.D. "MAINTENANCE CROSSOVER FOR FREEWAYS"



MAINTENANCE CROSSOVER 6
STA. 416+00



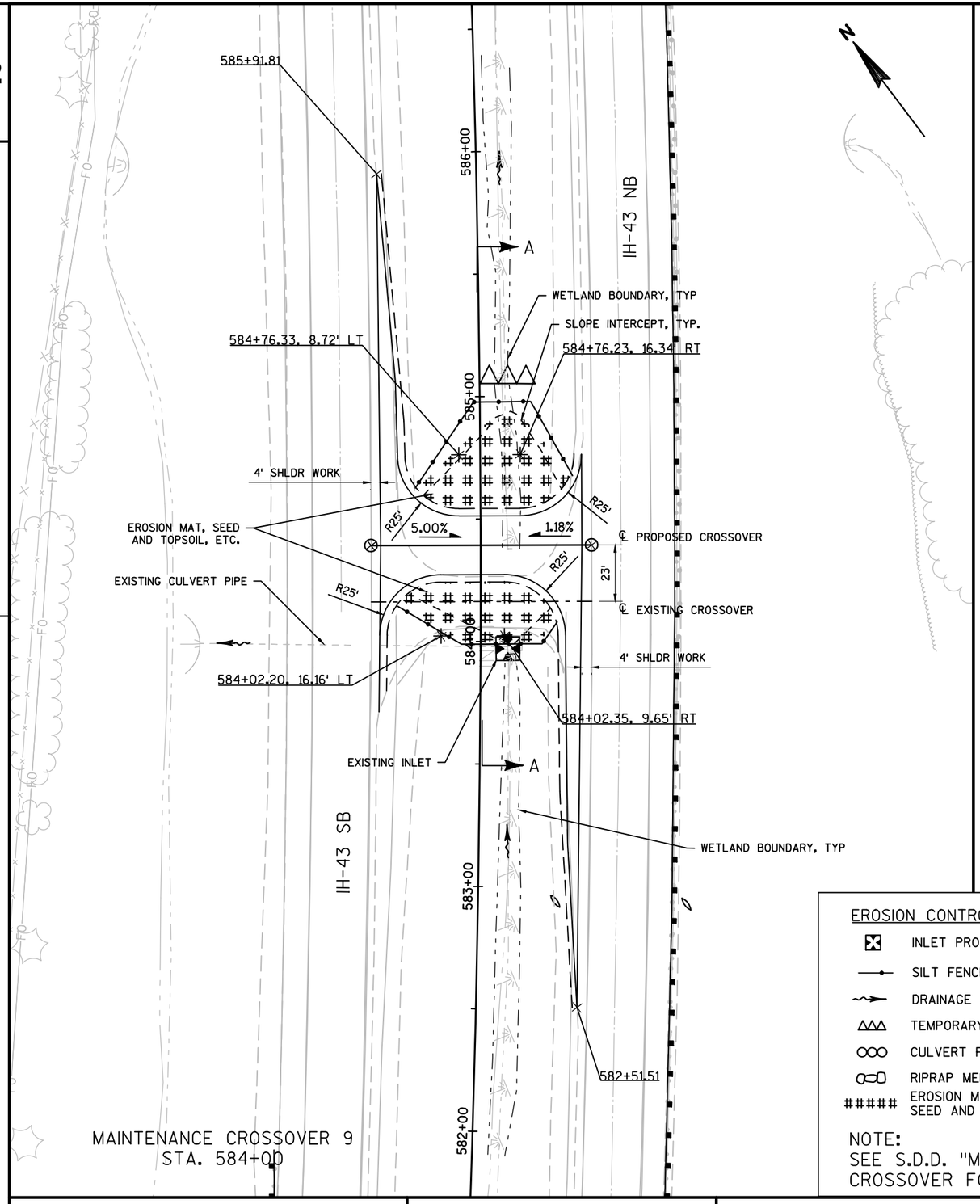


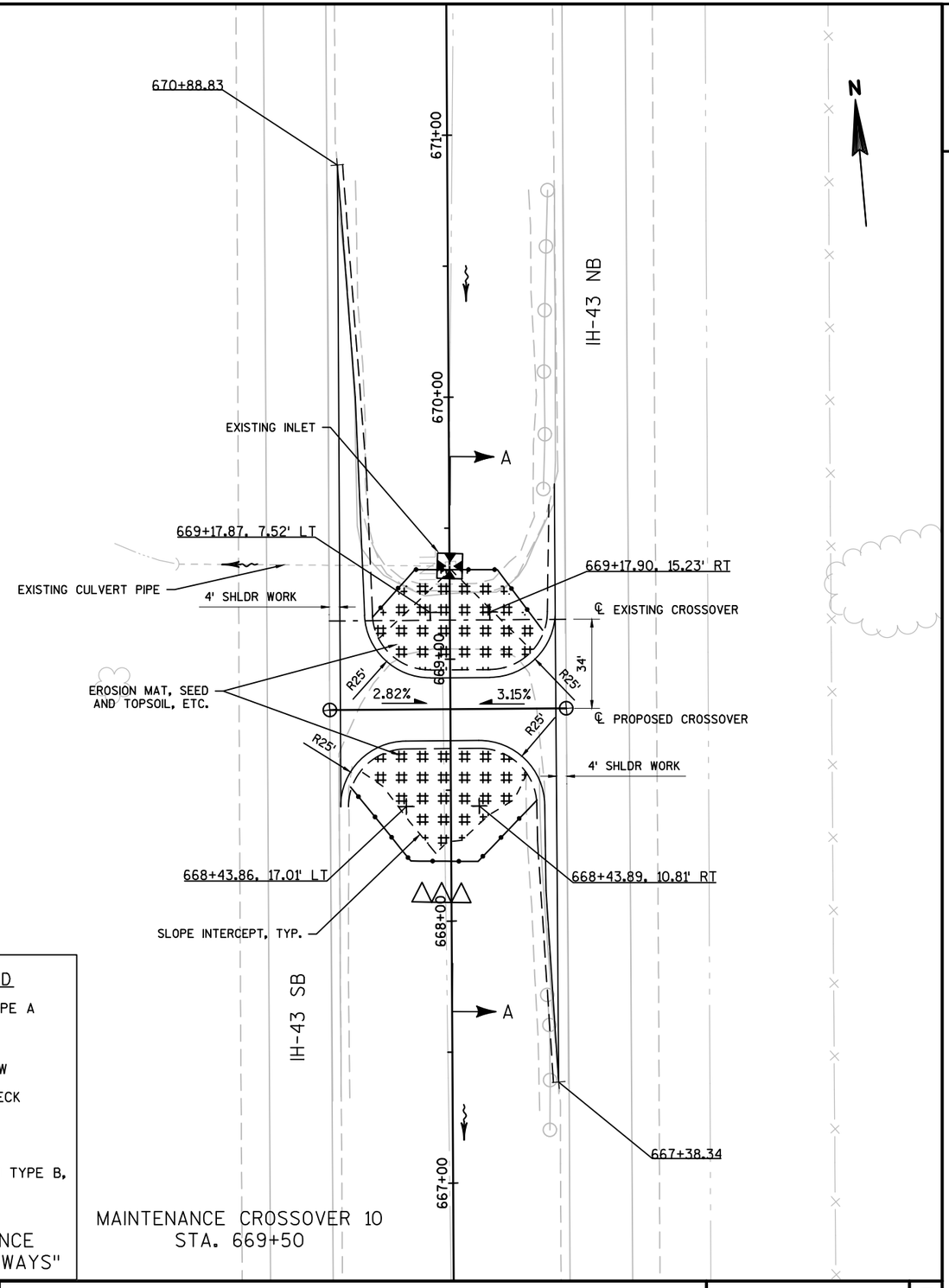
EROSION CONTROL LEGEND

- INLET PROTECTION TYPE A
- SILT FENCE
- DRAINAGE FLOW ARROW
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- ##### EROSION MAT CLASS I TYPE B, SEED AND TOPSOIL

NOTE:
SEE S.D.D. "MAINTENANCE CROSSOVER FOR FREEWAYS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CONSTRUCTION DETAILS: MAINT. CROSSOVER & EROSION CONTROL	SHEET 17	E



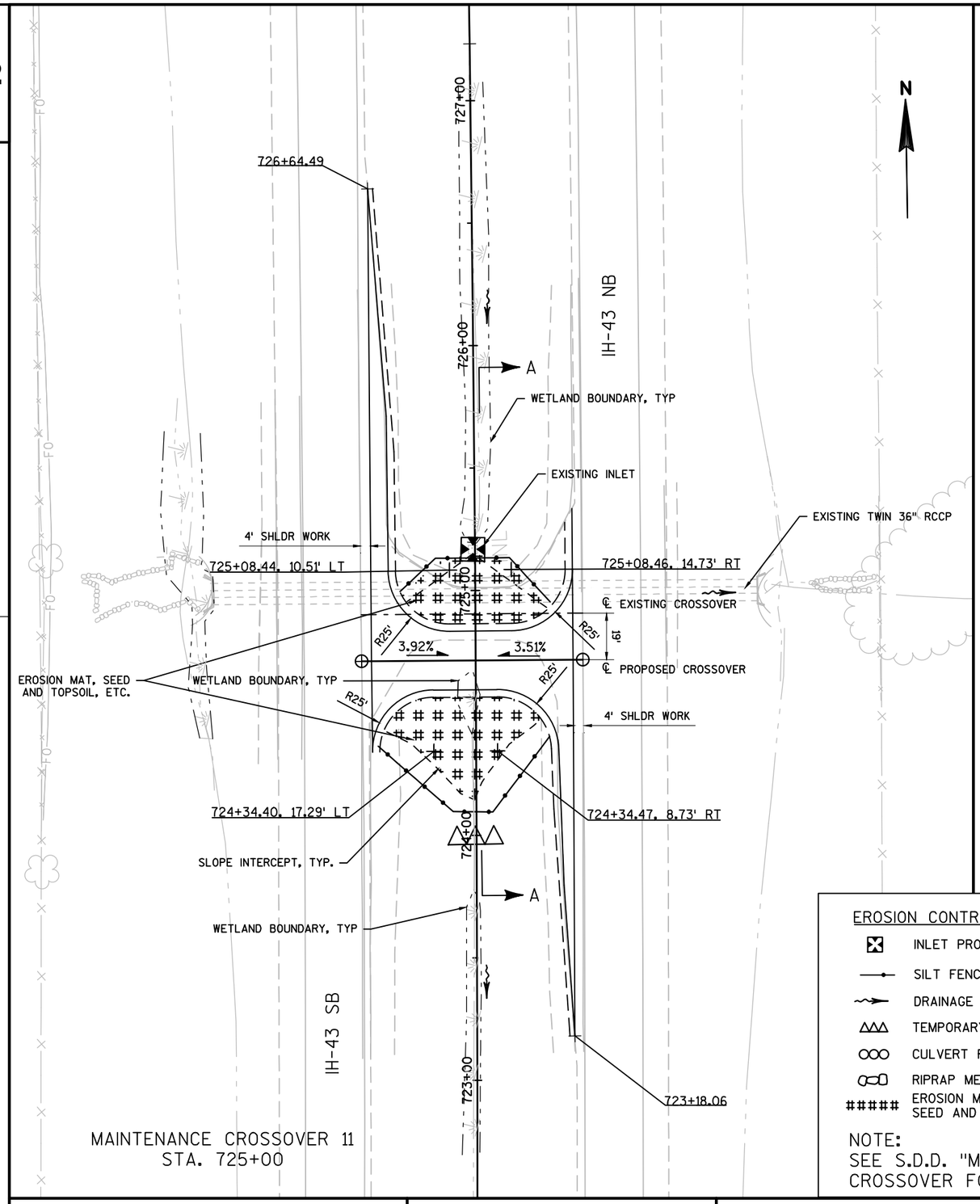


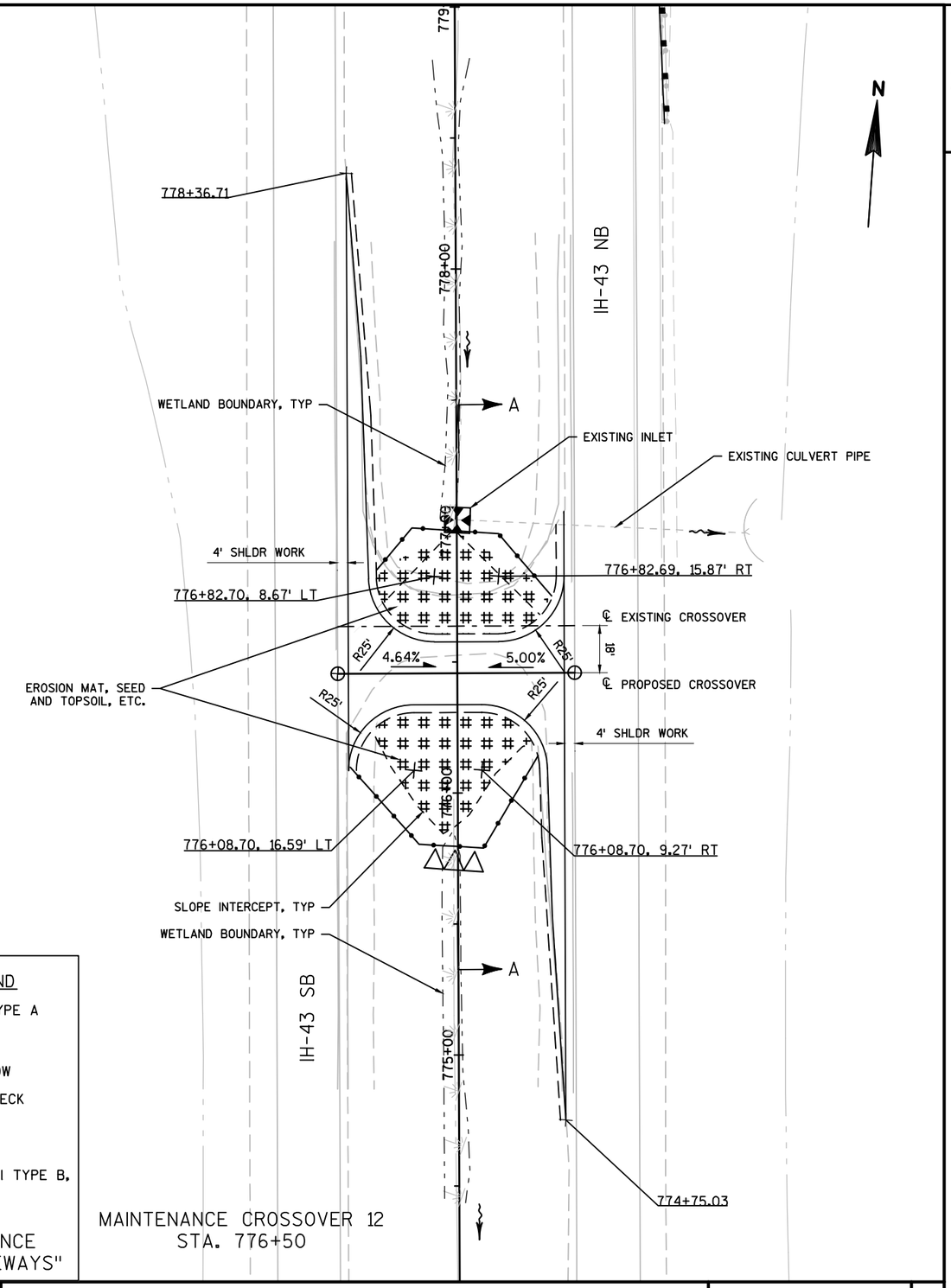
EROSION CONTROL LEGEND

- INLET PROTECTION TYPE A
- SILT FENCE
- DRAINAGE FLOW ARROW
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- ##### EROSION MAT CLASS I TYPE B, SEED AND TOPSOIL

NOTE:
SEE S.D.D. "MAINTENANCE CROSSOVER FOR FREEWAYS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CONSTRUCTION DETAILS: MAINT. CROSSOVER & EROSION CONTROL	SHEET 18	E



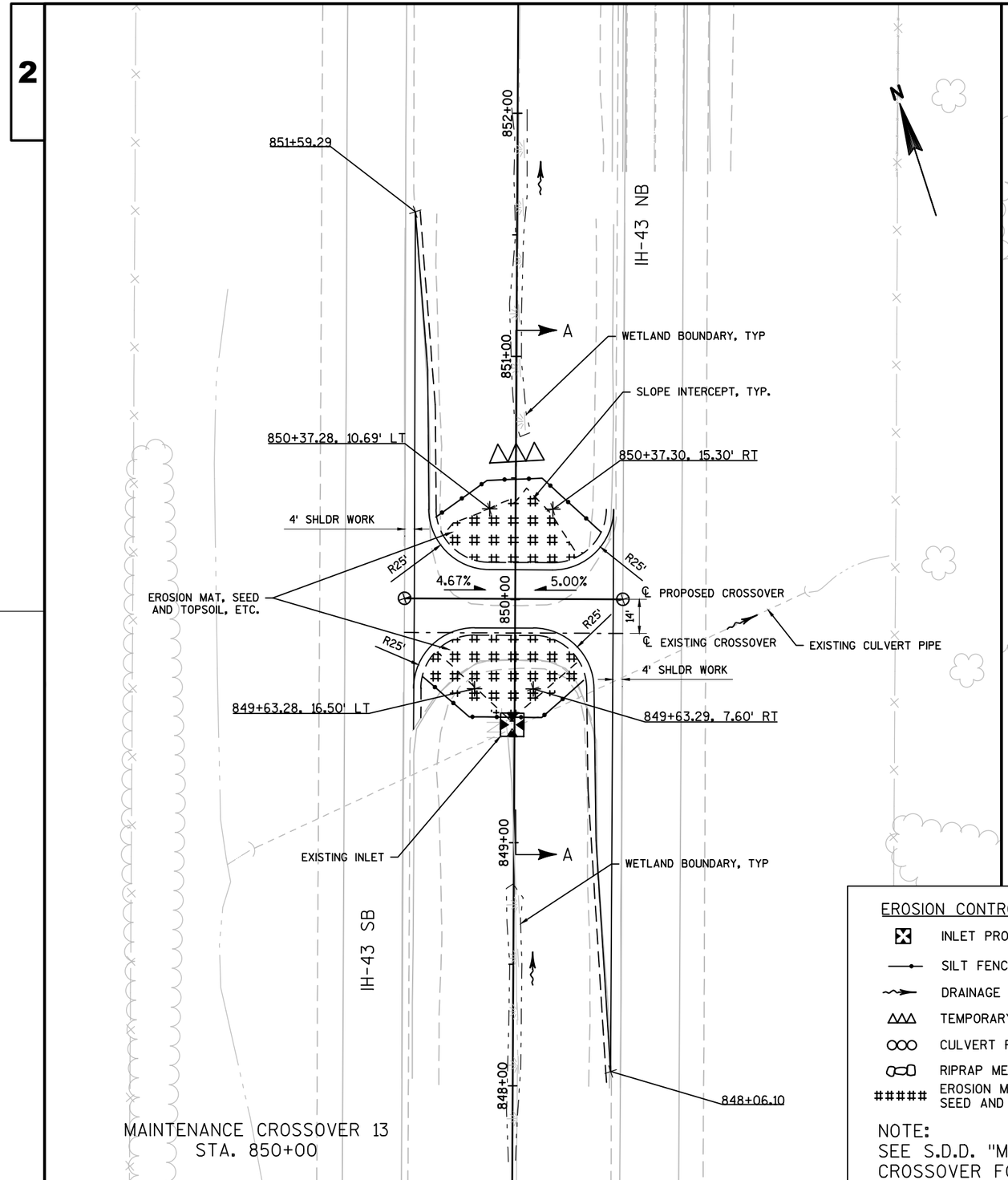


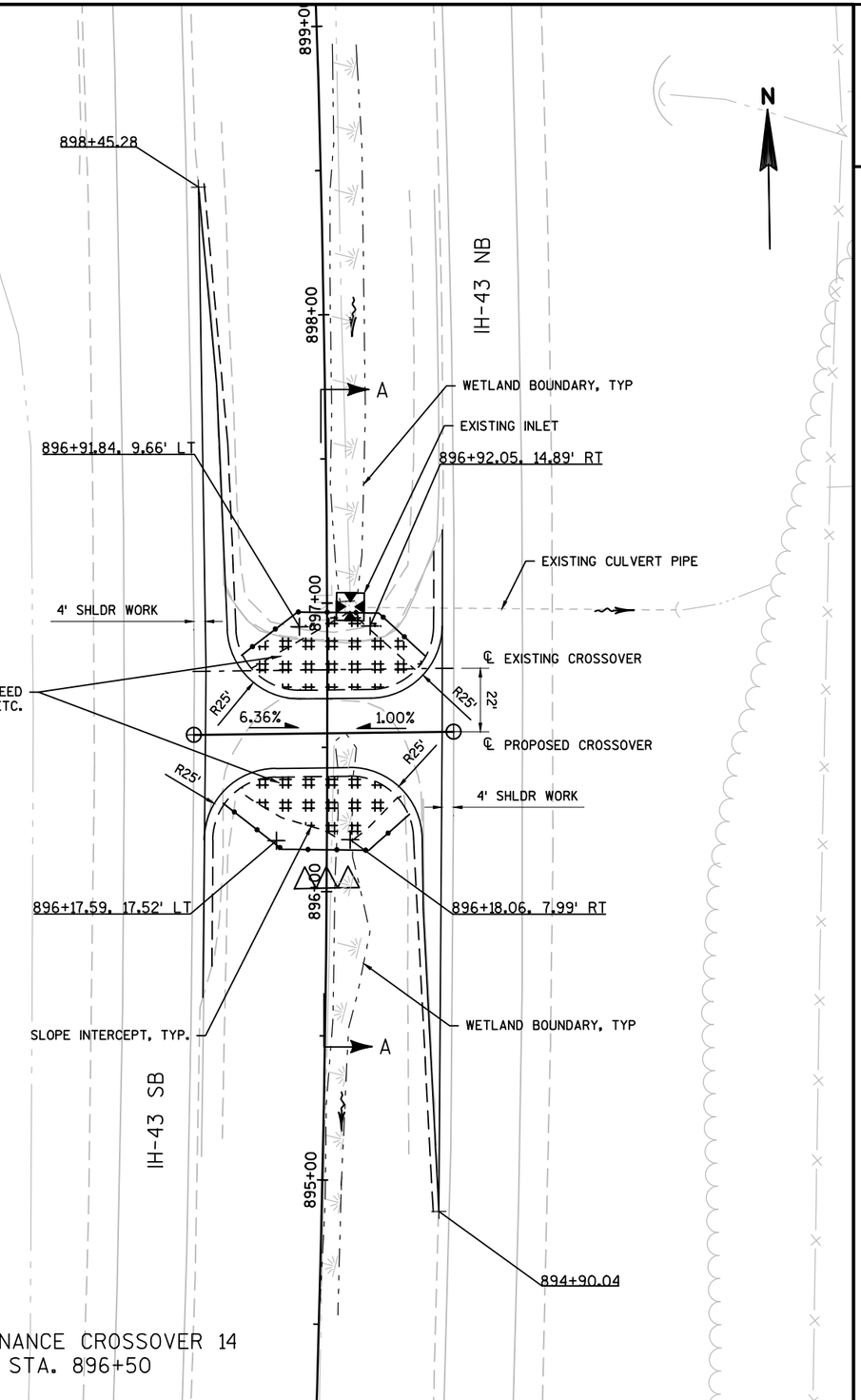
EROSION CONTROL LEGEND

- INLET PROTECTION TYPE A
- SILT FENCE
- DRAINAGE FLOW ARROW
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- ##### EROSION MAT CLASS I TYPE B, SEED AND TOPSOIL

NOTE:
SEE S.D.D. "MAINTENANCE CROSSOVER FOR FREEWAYS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CONSTRUCTION DETAILS: MAINT. CROSSOVER & EROSION CONTROL	SHEET 19	E





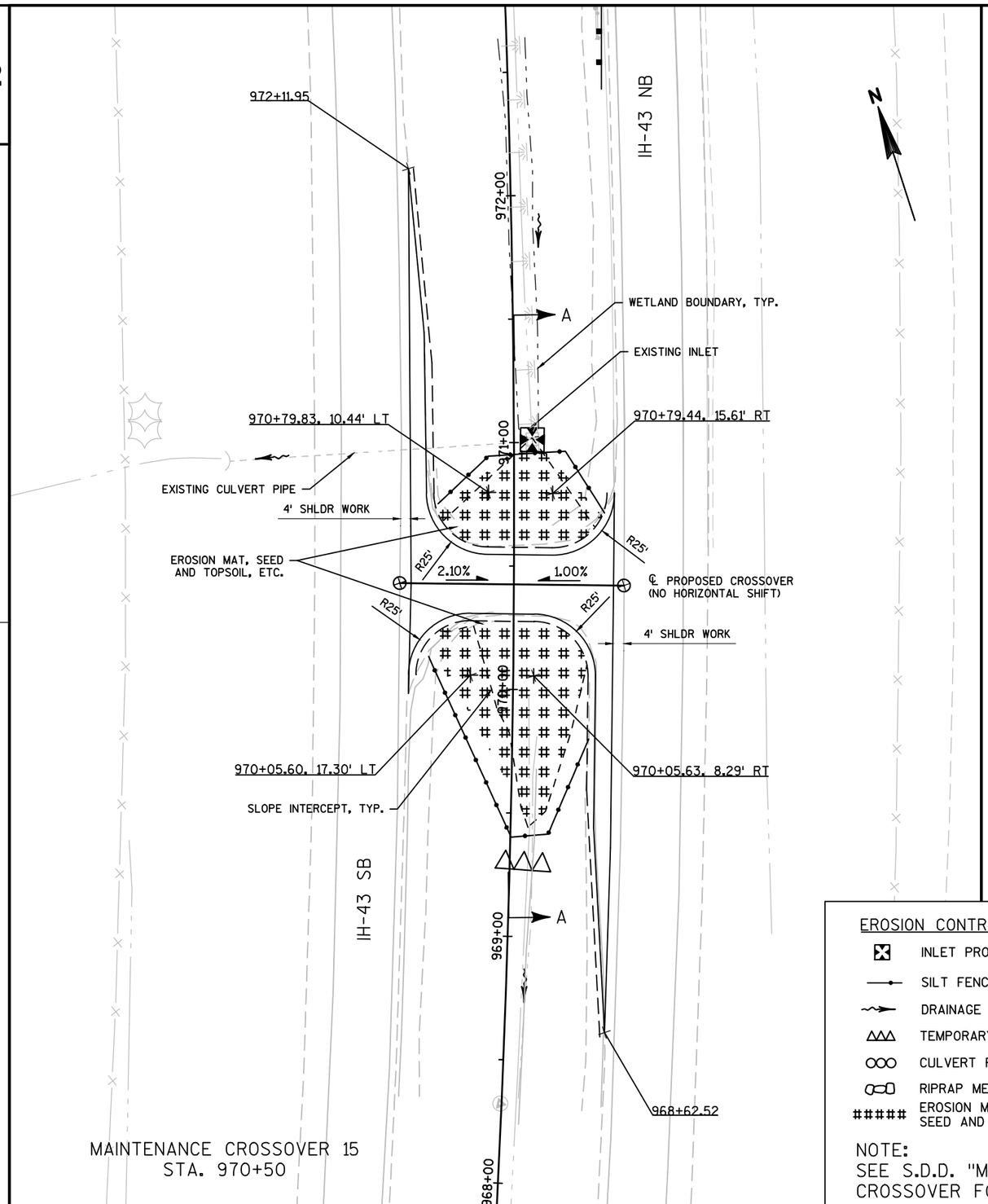
EROSION CONTROL LEGEND

- INLET PROTECTION TYPE A
- SILT FENCE
- DRAINAGE FLOW ARROW
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- ##### EROSION MAT CLASS I TYPE B, SEED AND TOPSOIL

NOTE:
SEE S.D.D. "MAINTENANCE CROSSOVER FOR FREEWAYS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CONSTRUCTION DETAILS: MAINT. CROSSOVER & EROSION CONTROL	SHEET 20	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\021005_CD_XOVER.DWG
LAYOUT NAME - 07
PLOT DATE : 1/23/2018 10:07 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

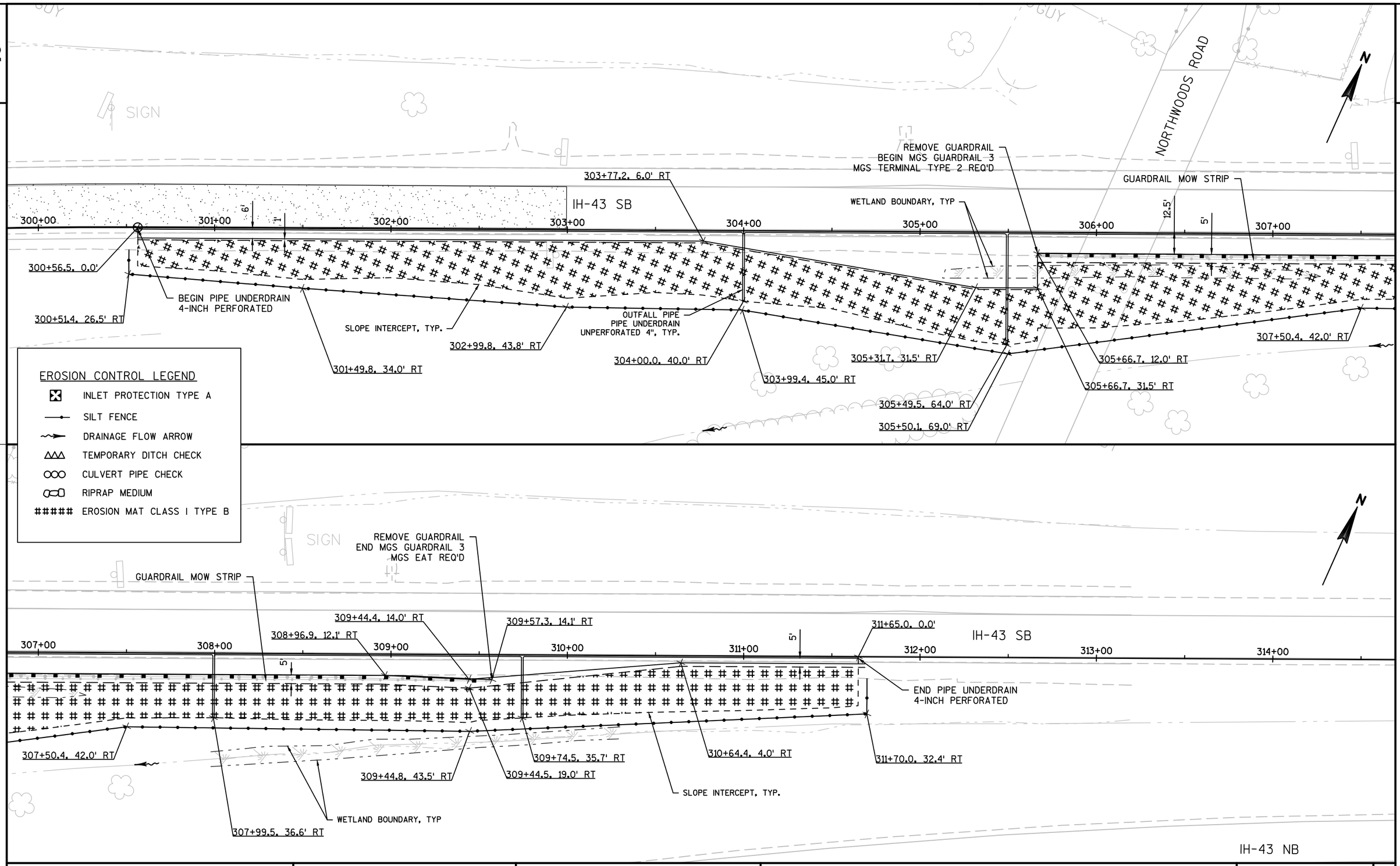


EROSION CONTROL LEGEND

- INLET PROTECTION TYPE A
- SILT FENCE
- DRAINAGE FLOW ARROW
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- ##### EROSION MAT CLASS I TYPE B, SEED AND TOPSOIL

NOTE:
SEE S.D.D. "MAINTENANCE CROSSOVER FOR FREEWAYS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CONSTRUCTION DETAILS: MAINT. CROSSOVER & EROSION CONTROL	SHEET 21	E



PROJECT NO: 1229-05-70	HWY: XXX	COUNTY: OZAUKEE	CONSTRUCTION DETAIL: LAW ENFORCEMENT PAD	SHEET 22	E

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N

STA. 829+70 SB
BEGIN OUTSIDE SHOULDER WORK TO REPLACE EXISTING 3". SEE CONSTRUCTION DETAIL

BEGIN DIAMOND GRINDING

TAPER DIAMOND GRINDING PROFILE FOR A SMOOTH TRANSITION FROM EXISTING ASPHALT SURFACE SOUTH OF THE PROJECT.

BEGIN PROJECT
STA. 829+70

PC: 833+30.37

PT: 845+83.96

IH-43 SB

IH-43 NB

ARROWHEAD RD.

820 825 830 835 840 845

25 30 35 40 45

30 35 40 45

3

2

1

BEGIN DIAMOND GRINDING

END DIAMOND GRINDING
STA. 834+50

TAPER DIAMOND GRINDING PROFILE FOR A SMOOTH TRANSITION FROM EXISTING ASPHALT SURFACE SOUTH OF THE PROJECT.

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 23	E

2

N

BEGIN DIAMOND GRINDING
STA. 0+32

END DIAMOND GRINDING
STA. 49+92

CTH V

CTH W

PT: 845+83.96

IH-43 SB

IH-43 NB

STH 32/
N. PORT WASHINGTON RD.

BEGIN RAMP SHOULDER WORK
STA. 60+63 LT

END RAMP SHOULDER WORK
STA. 70+50 LT

BEGIN RAMP SHOULDER WORK
STA. 62+30 RT

BEGIN DIAMOND GRINDING
STA. 60+63

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 24	E

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

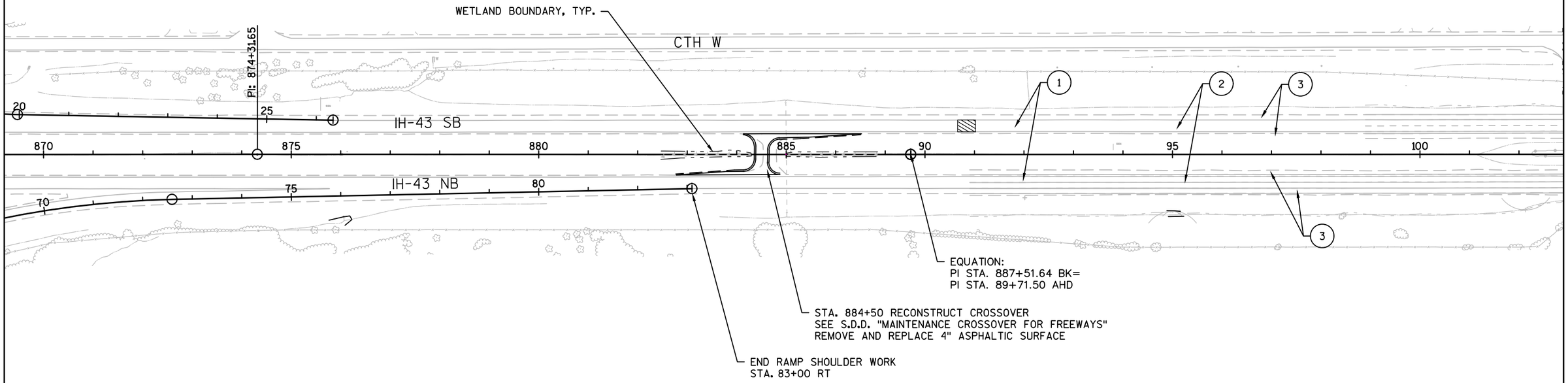
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 25	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_PD - 021203_PD

PLOT DATE : 1/29/2018 10:04 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

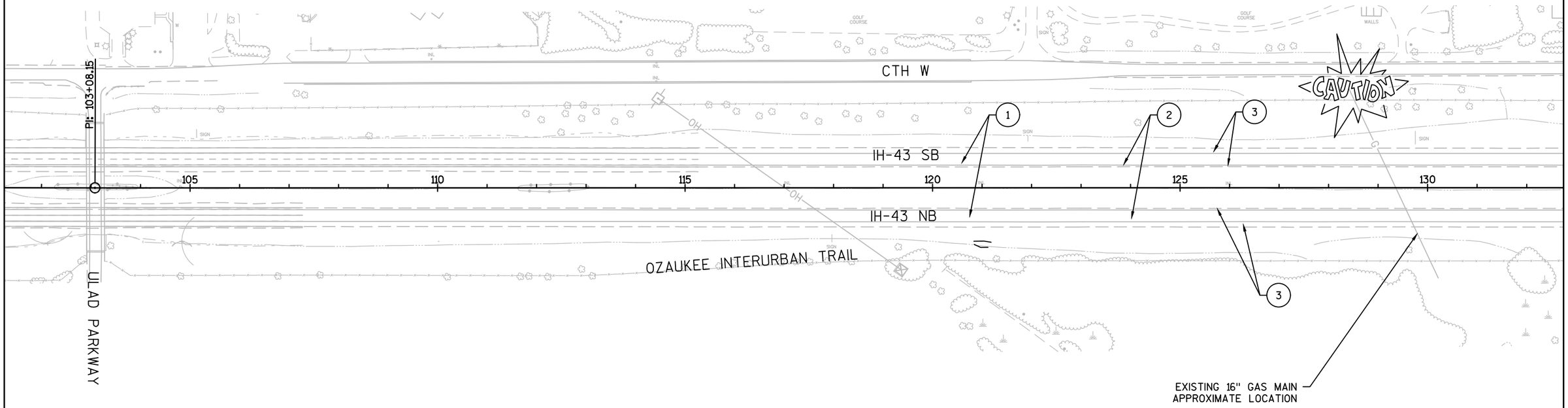
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 26	E

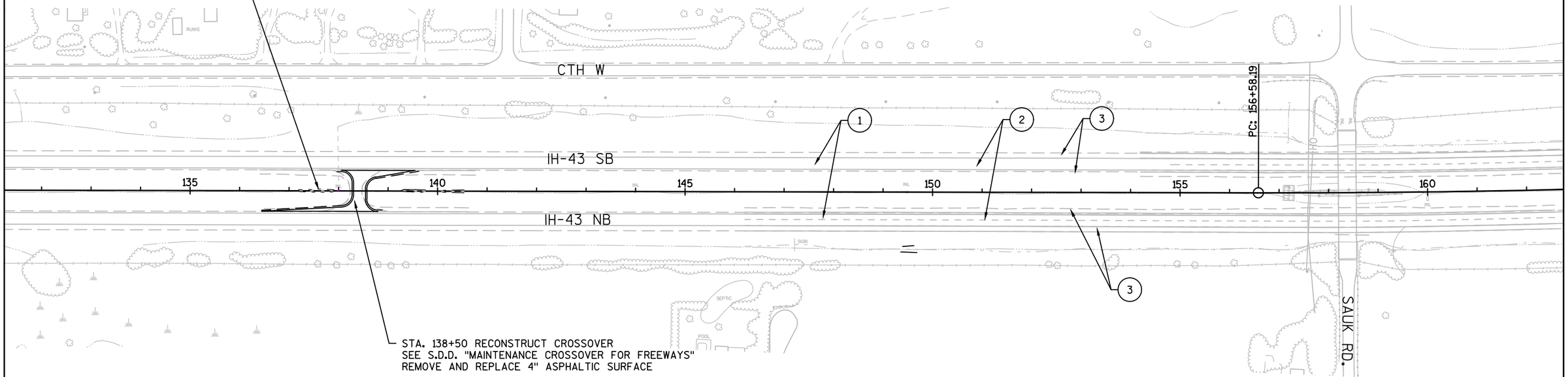
2

LEGEND

1. REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)
2. DIAMOND GRINDING
3. SHOULDER WORK (SEE CONSTRUCTION DETAIL)

- CONCRETE PAVEMENT REPAIR SHES
- CONCRETE PAVEMENT REPLACEMENT SHES
- ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)
- HIGH FRICTION SURFACE TREATMENT
- REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 27	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

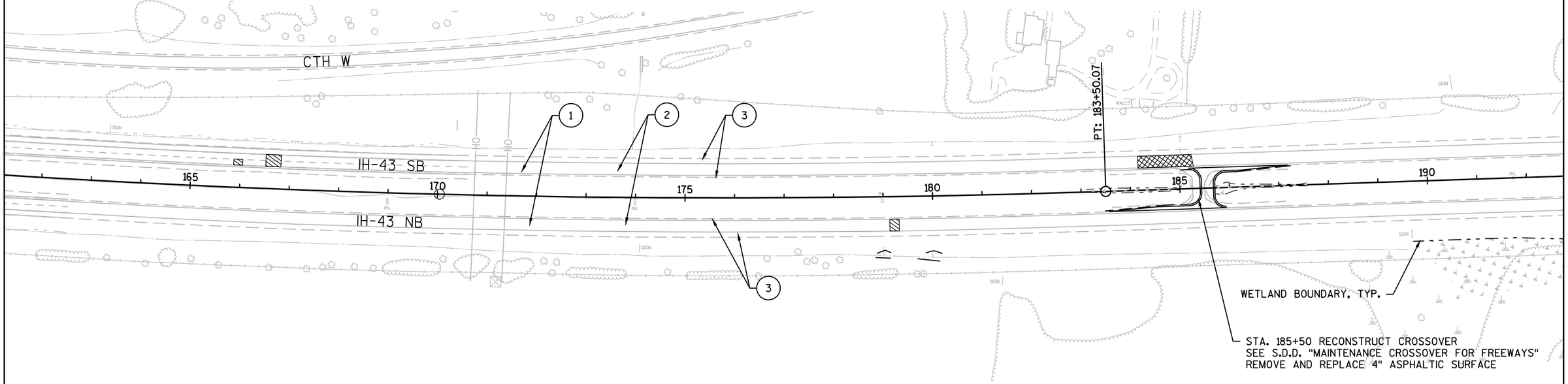
CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 28	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N

IH-43 SB

IH-43 NB

STH 33

195 200 205 210 215 220

BEGIN RAMP SHOULDER WORK STA. 207+50 LT

BEGIN RAMP SHOULDER WORK STA. 210+70 RT

BEGIN RAMP SHOULDER WORK STA. 220+70 LT & RT

END RAMP SHOULDER WORK STA. 219+00 LT & RT

END DIAMOND GRINDING STA. 217+80

BEGIN DIAMOND GRINDING STA. 221+20

END DIAMOND GRINDING STA. 219+00

END DIAMOND GRINDING STA. 219+20

END RAMP SHOULDER WORK STA. 219+60 LT

WETLAND BOUNDARY, TYP.

BEGIN RAMP SHOULDER WORK STA. 202+10 RT

BEGIN RAMP SHOULDER WORK STA. 211+50 LT

END DIAMOND GRINDING STA. 212+00 NB OFF RAMP

END RAMP SHOULDER WORK STA. 219+30 RT

BEGIN RAMP SHOULDER WORK STA. 221+00 LT & RT

BEGIN DIAMOND GRINDING STA. 221+20

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 29	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N

BEGIN DIAMOND GRINDING
STA. 226+05

END RAMP SHOULDER WORK
STA. 228+15 RT

CONCRETE PAVEMENT REPAIR

END RAMP SHOULDER WORK
STA. 238+00 LT

IH-43 SB

IH-43 NB

PC: 227+39.55

PT: 249+25.41

END RAMP SHOULDER WORK
STA. 229+00 LT

BEGIN DIAMOND GRINDING
STA. 224+00

END RAMP SHOULDER WORK
STA. 231+50 RT

STA. 238+00 RECONSTRUCT CROSSOVER
SEE S.D.D. "MAINTENANCE CROSSOVER FOR FREEWAYS"
REMOVE AND REPLACE 4" ASPHALTIC SURFACE

WETLAND BOUNDARY, TYP.

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 30	E

2

STH 57 SB
END OUTSIDE SHOULDER WORK TO REPLACE EXISTING 3".
CONTINUE ALONG IH-43 SB.
SEE CONSTRUCTION DETAIL

END DIAMOND GRINDING
STA. 263+00

STA. 271+50 SB
END OUTSIDE SHOULDER WORK TO REPLACE EXISTING 3".
SEE CONSTRUCTION DETAIL

WETLAND BOUNDARY, TYP.

END DIAMOND GRINDING
STA. 279+45

STH 57 SB

IH-43 SB

PC: 258+27.64

255 260 265 270 275 280

CAUTION

EXISTING 12" HIGH PRESSURE GAS MAIN
(APPROXIMATE LOCATION)

END DIAMOND GRINDING
STA. 266+89

PC: 263+83.28

STH 57 NB

IH-43 NB

255 260 265 270 275 280

LEGEND

1. REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)
2. DIAMOND GRINDING
3. SHOULDER WORK (SEE CONSTRUCTION DETAIL)

- CONCRETE PAVEMENT REPAIR SHES
- CONCRETE PAVEMENT REPLACEMENT SHES
- ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)
- HIGH FRICTION SURFACE TREATMENT
- REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 31	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

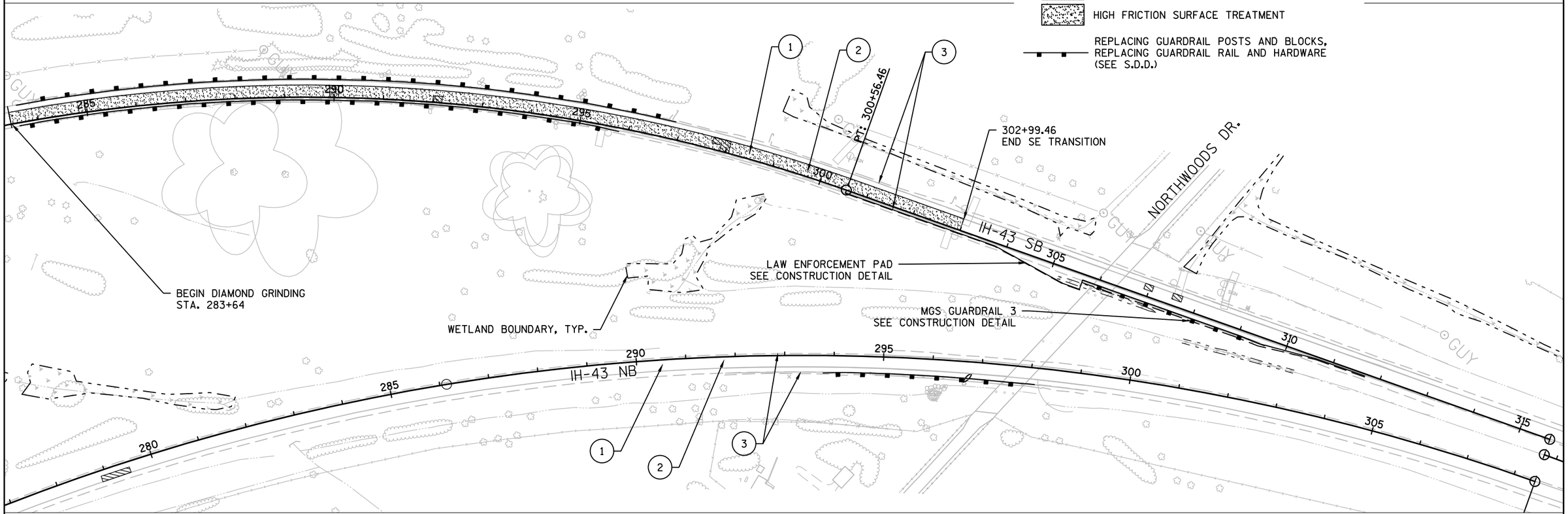
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 32	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

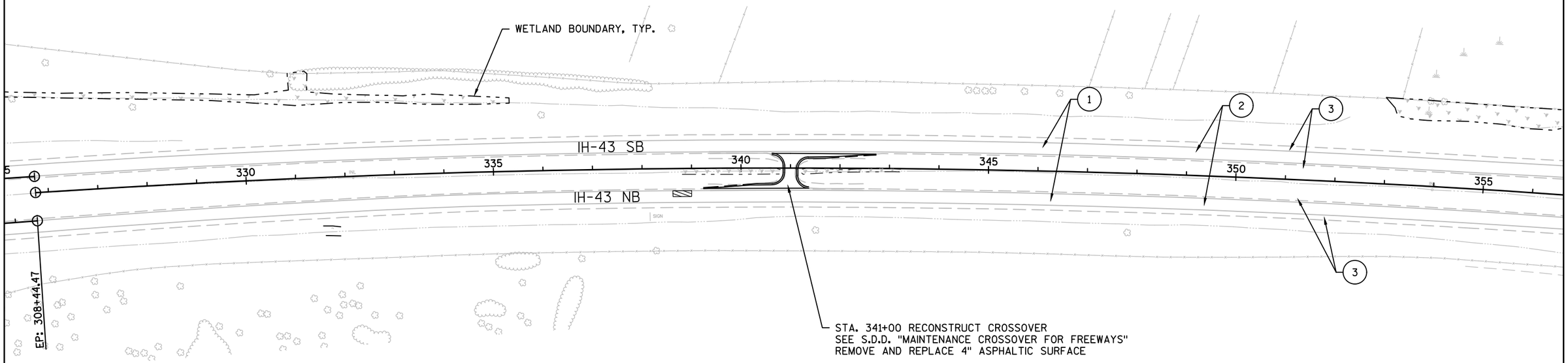
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 33	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_PD - 021211_PD

PLOT DATE : 1/29/2018 10:07 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

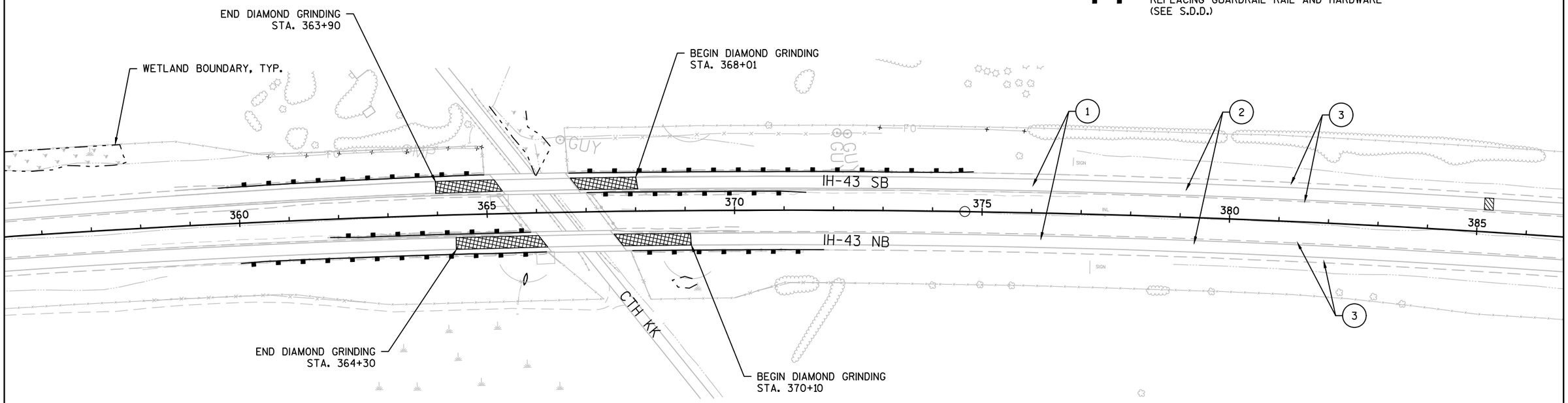
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 34	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

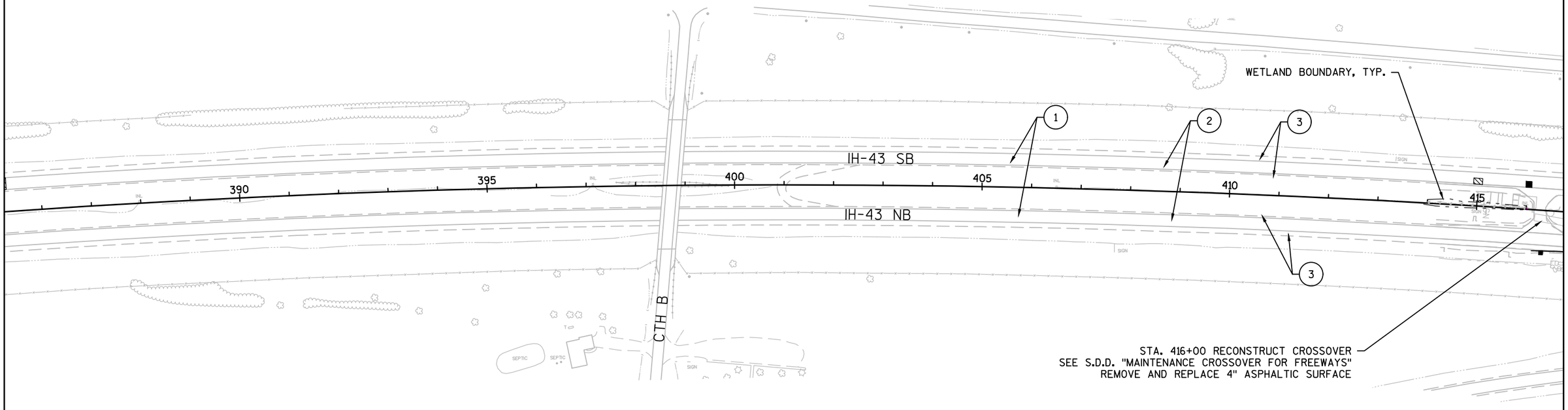
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 35	E

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

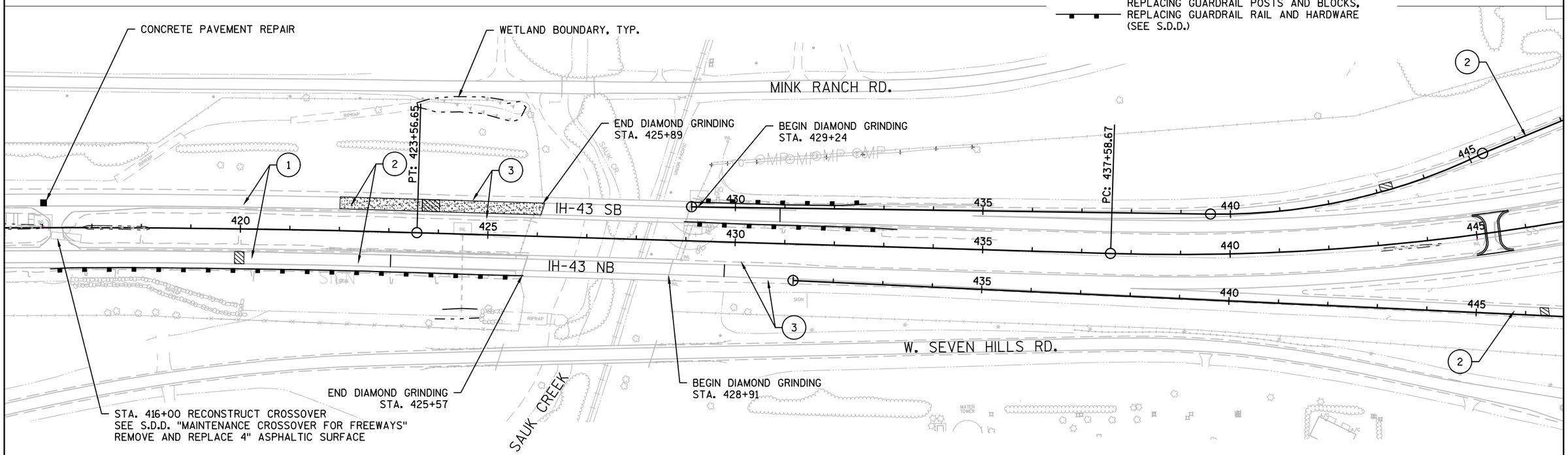
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 36	E

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

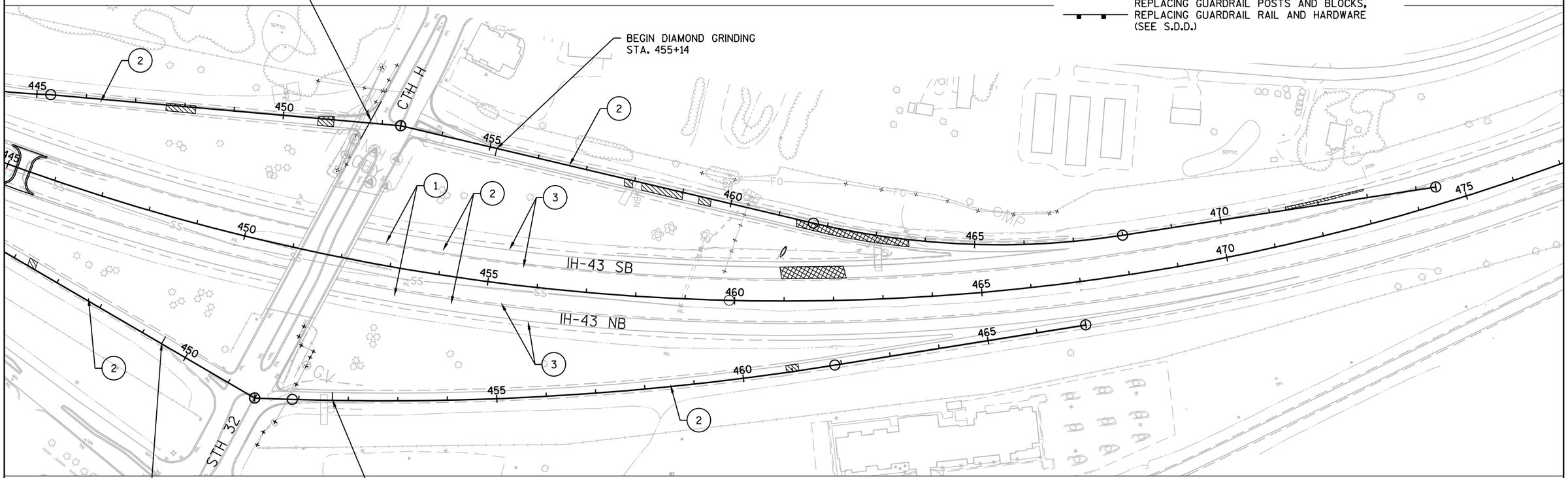
HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N

END DIAMOND GRINDING
STA. 451+74

BEGIN DIAMOND GRINDING
STA. 455+14



END DIAMOND GRINDING
STA 449+44

BEGIN DIAMOND GRINDING
STA. 451+68

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 37	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

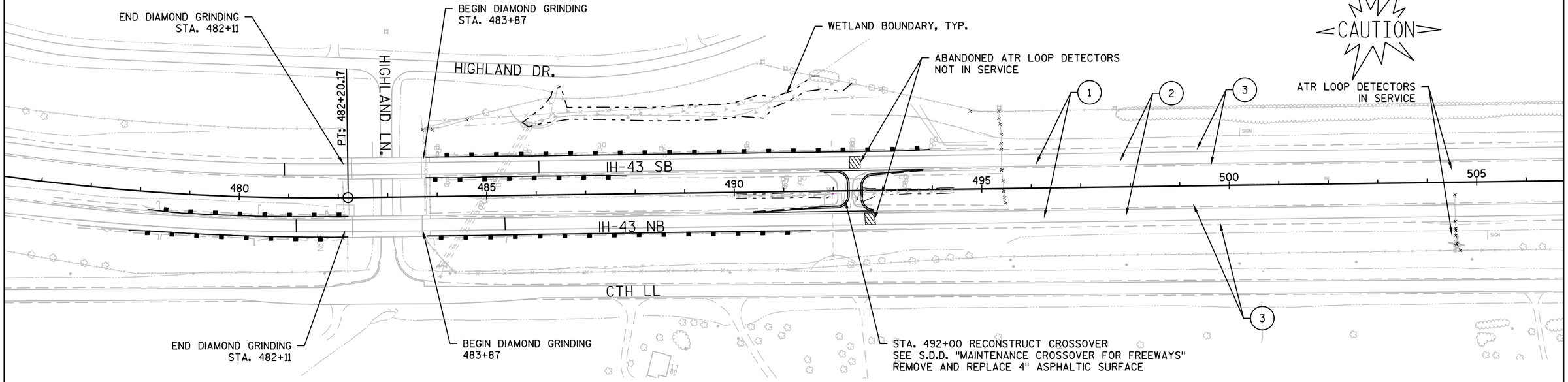
CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 38	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

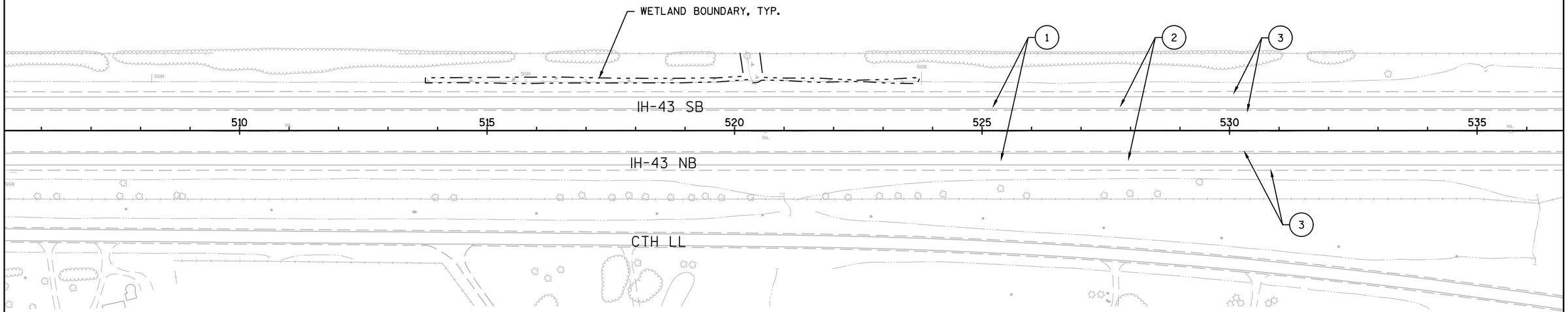
CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 39	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_PD - 021217_PD

PLOT DATE : 1/29/2018 10:09 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : _____ PLOT SCALE : **********

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

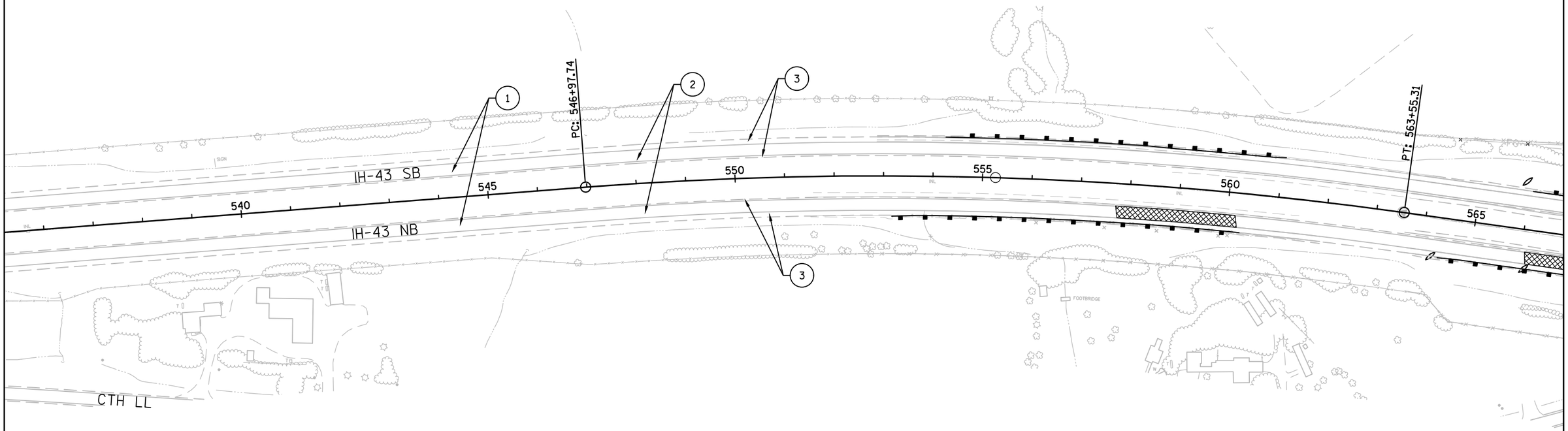
CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 40	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_PD - 021218_PD

PLOT DATE : 1/29/2018 10:09 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

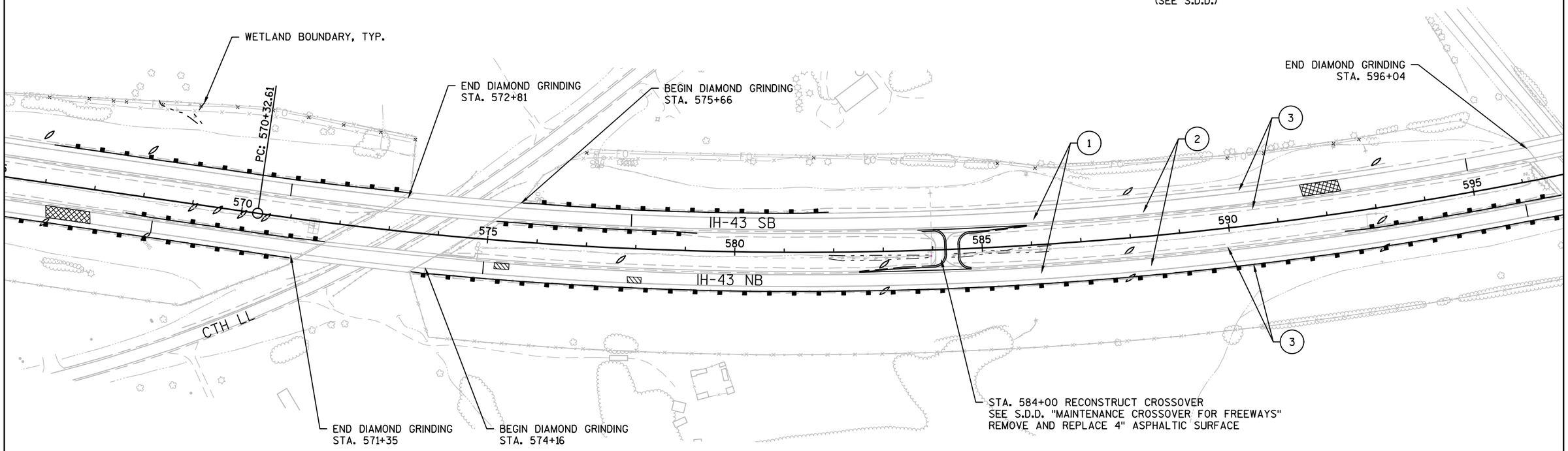
CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 41	E

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

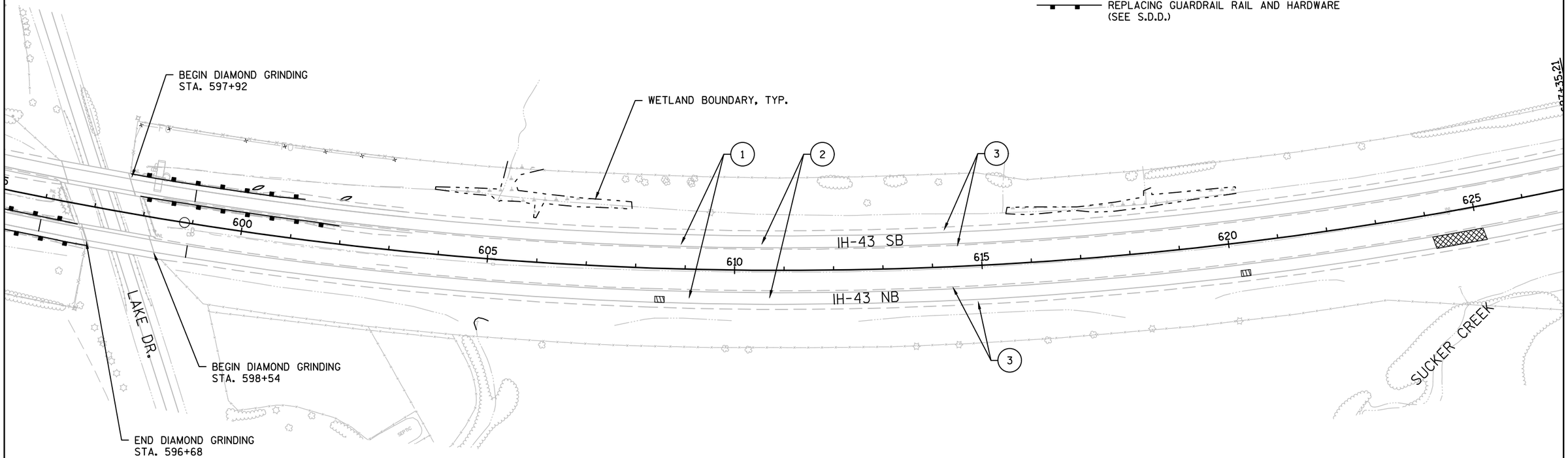
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 42	E

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

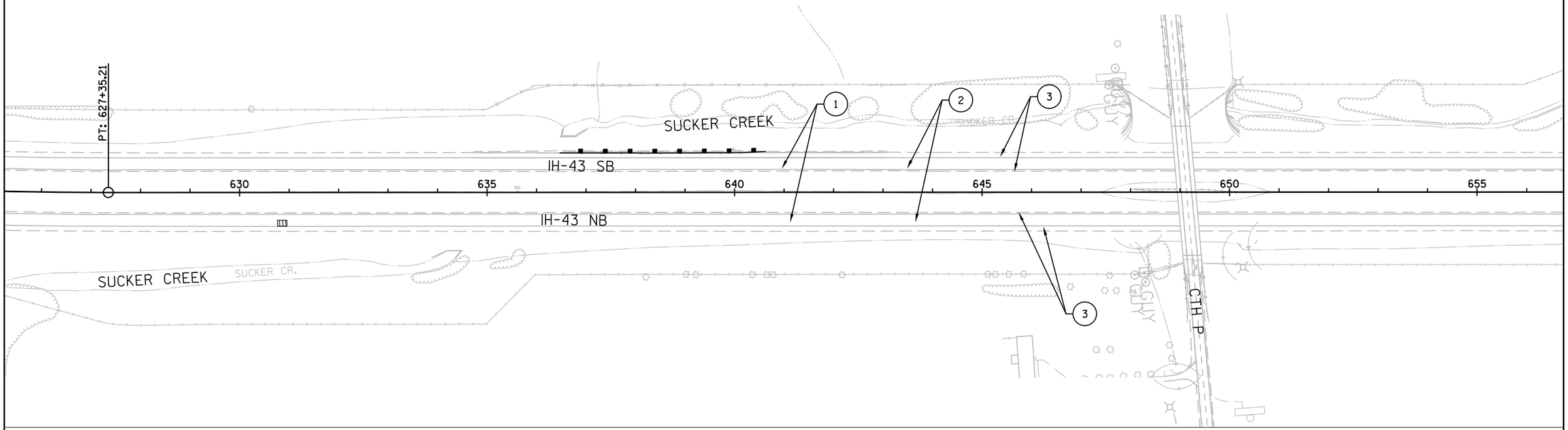
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 43	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_PD - 021221_PD

PLOT DATE : 1/29/2018 10:10 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : ---------- PLOT SCALE : **********

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

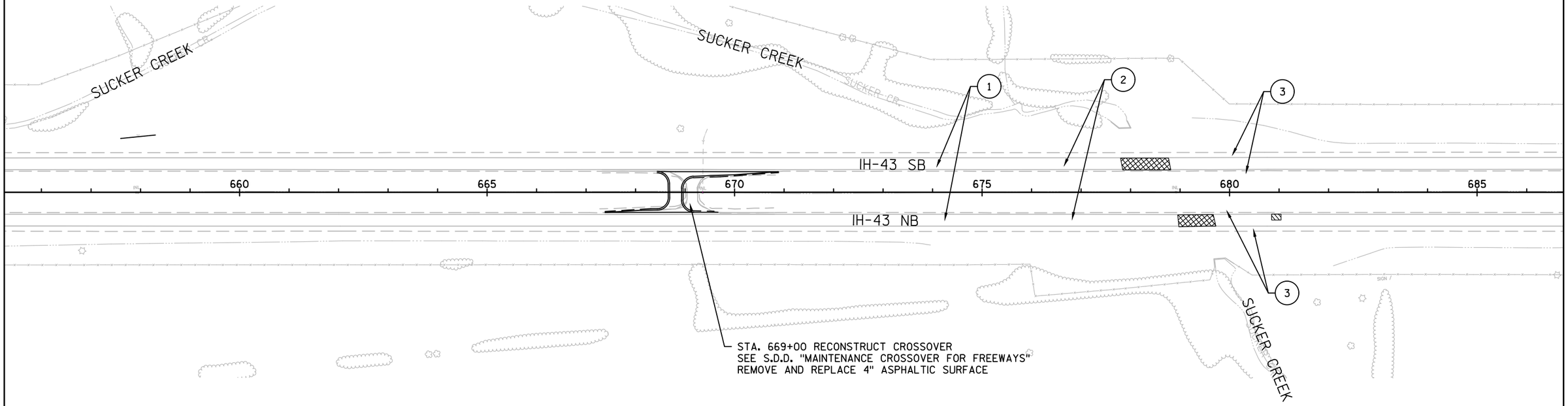
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 44	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_PD - 021222_PD

PLOT DATE : 1/29/2018 10:11 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : ---------- PLOT SCALE : **********

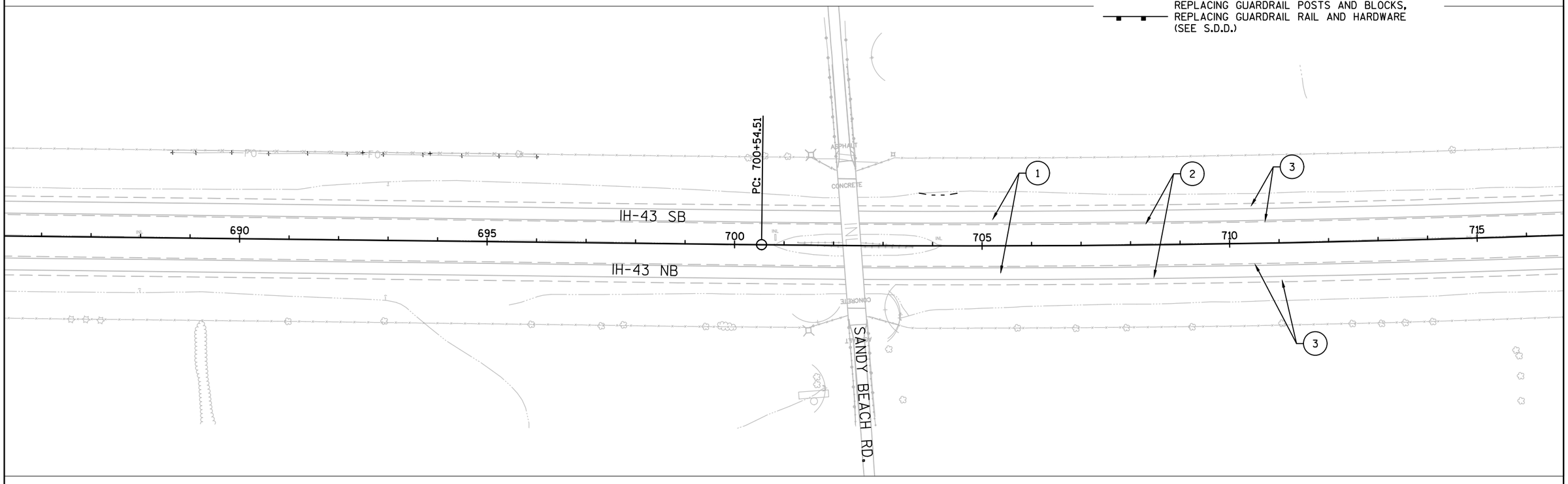
2

2

LEGEND

- (1) REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)
- (2) DIAMOND GRINDING
- (3) SHOULDER WORK (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT REPAIR SHES
- CONCRETE PAVEMENT REPLACEMENT SHES
- ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)
- HIGH FRICTION SURFACE TREATMENT
- REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 45	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_PD - 021223_PD

PLOT DATE : 1/29/2018 10:11 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : ---------- PLOT SCALE : **********

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

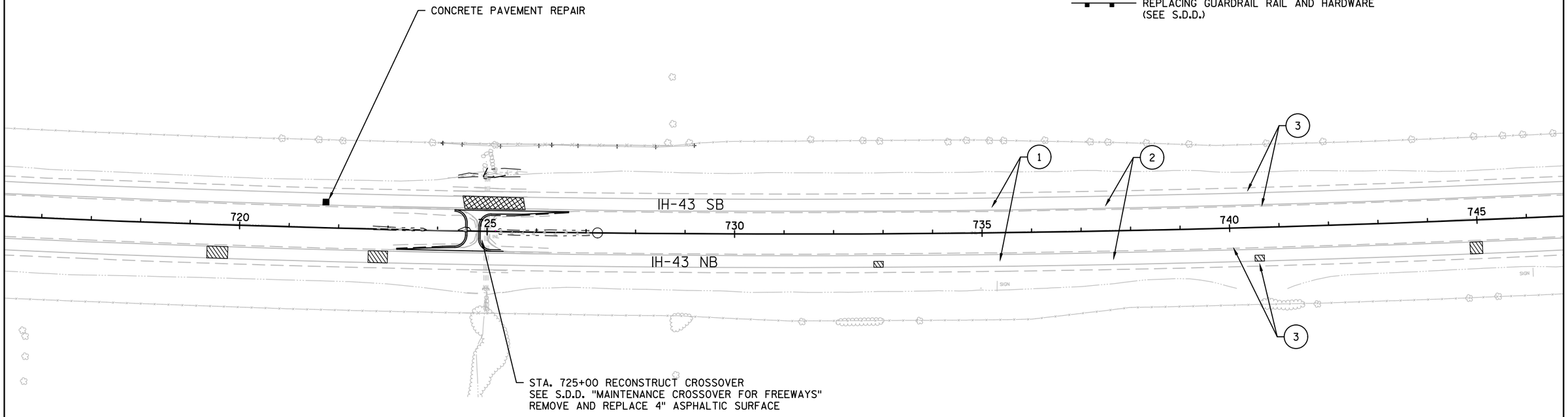
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 46	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

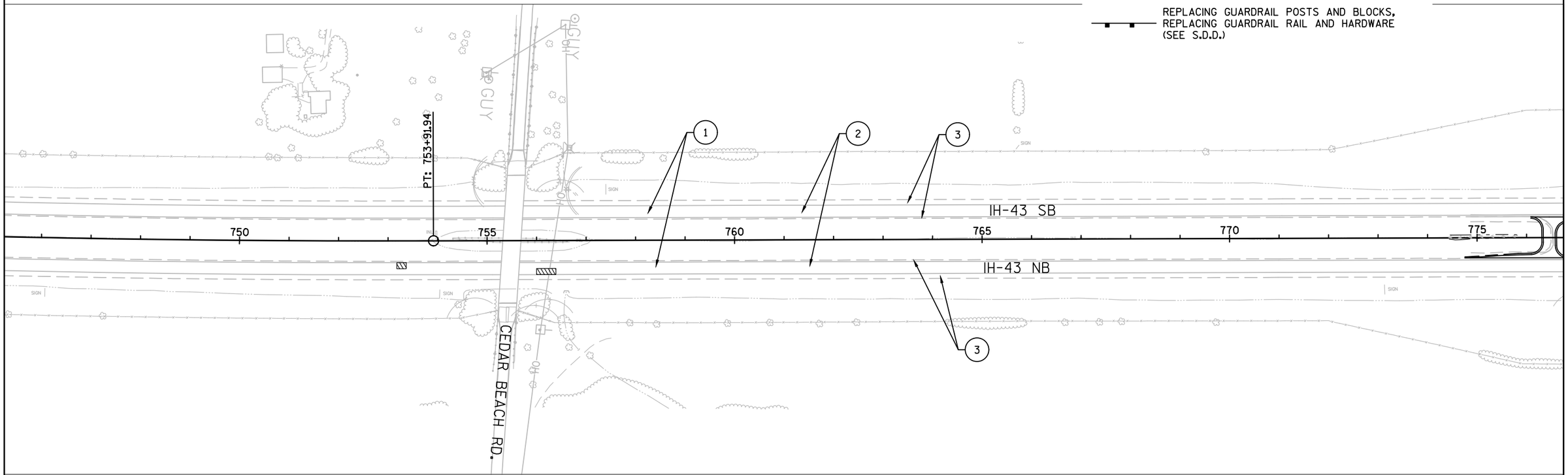
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 47	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

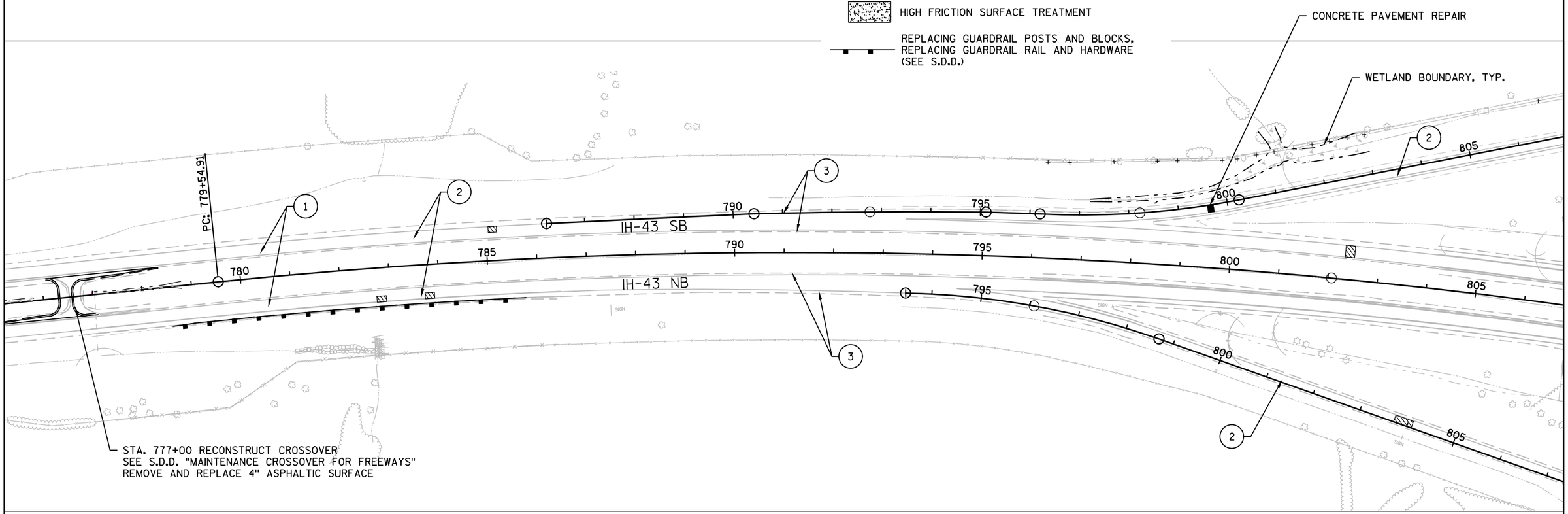
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 48	E

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N

END DIAMOND GRINDING
STA 808+44

BEGIN DIAMOND GRINDING
STA. 807+77

IH-43 SB

IH-43 NB

PT: 824+60.08

WETLAND BOUNDARY, TYP.

CONCRETE PAVEMENT REPAIR

C TH D

BEGIN DIAMOND GRINDING
STA 811+06

END DIAMOND GRINDING
STA. 807+47

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 49	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N

CONCRETE PAVEMENT REPAIR

WETLAND BOUNDARY, TYP.

SILVER BEACH RD.

IH-43 SB

IH-43 NB

840 845 850 855 860 865

1 2 3

3

SUCKER CREEK

STA. 850+00 RECONSTRUCT CROSSOVER
SEE S.D.D. "MAINTENANCE CROSSOVER FOR FREEWAYS"
REMOVE AND REPLACE 4" ASPHALTIC SURFACE

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 50	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

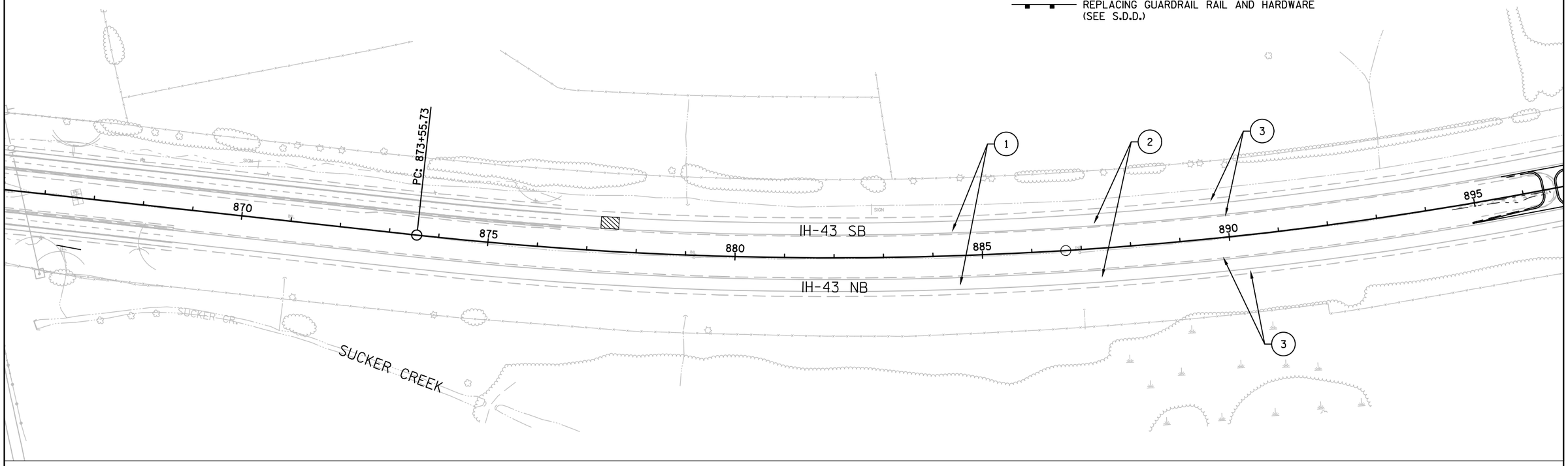
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 51	E

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

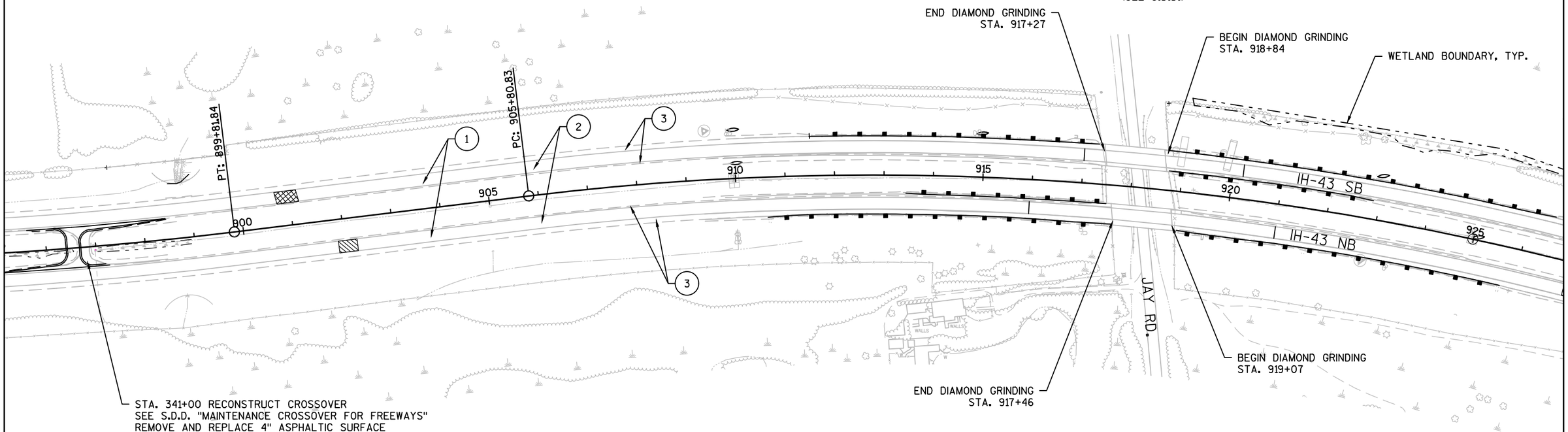
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 52	E

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

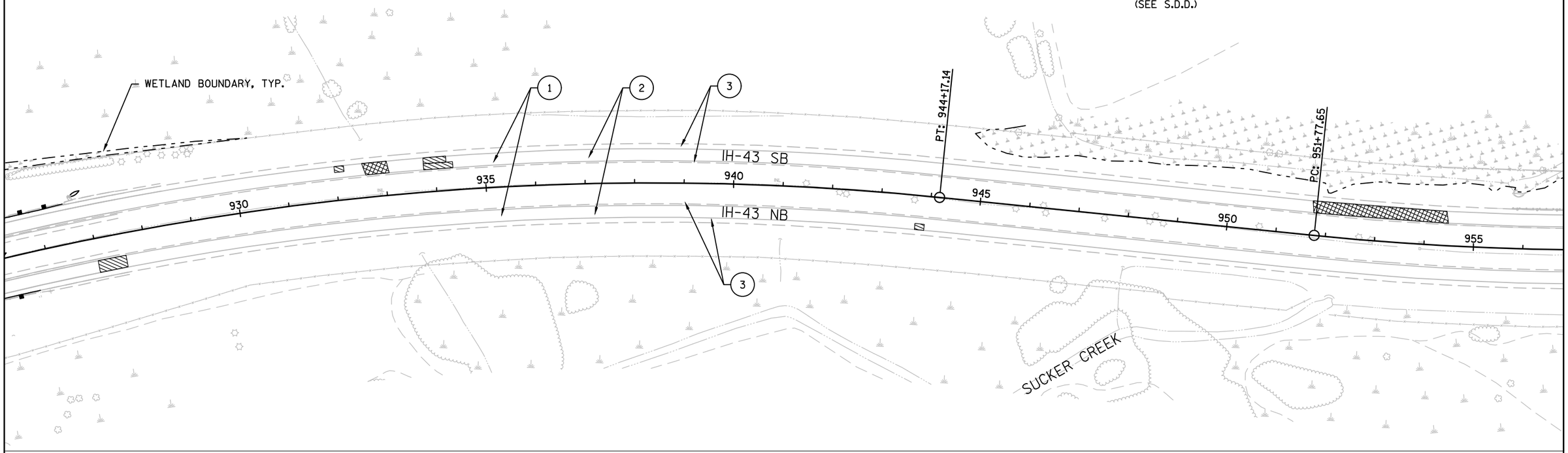
CONCRETE PAVEMENT REPAIR SHES

CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 53	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_PD - 021231_PD

PLOT DATE : 1/29/2018 10:14 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

2

LEGEND

1 REMOVING RAISED PAVEMENT MARKERS (REQUIRED PRIOR TO DIAMOND GRINDING)

2 DIAMOND GRINDING

3 SHOULDER WORK (SEE CONSTRUCTION DETAIL)

CONCRETE PAVEMENT REPAIR SHES

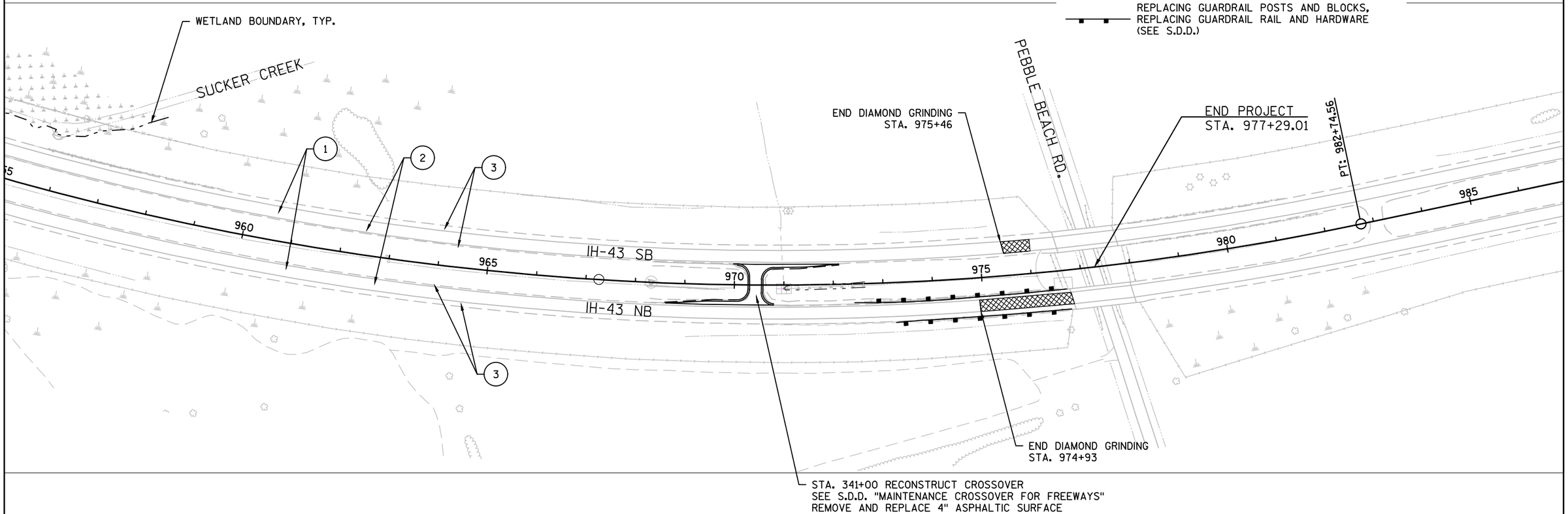
CONCRETE PAVEMENT REPLACEMENT SHES

ASPHALTIC PATCH REPLACEMENT (SEE CONSTRUCTION DETAIL)

HIGH FRICTION SURFACE TREATMENT

REPLACING GUARDRAIL POSTS AND BLOCKS, REPLACING GUARDRAIL RAIL AND HARDWARE (SEE S.D.D.)

N



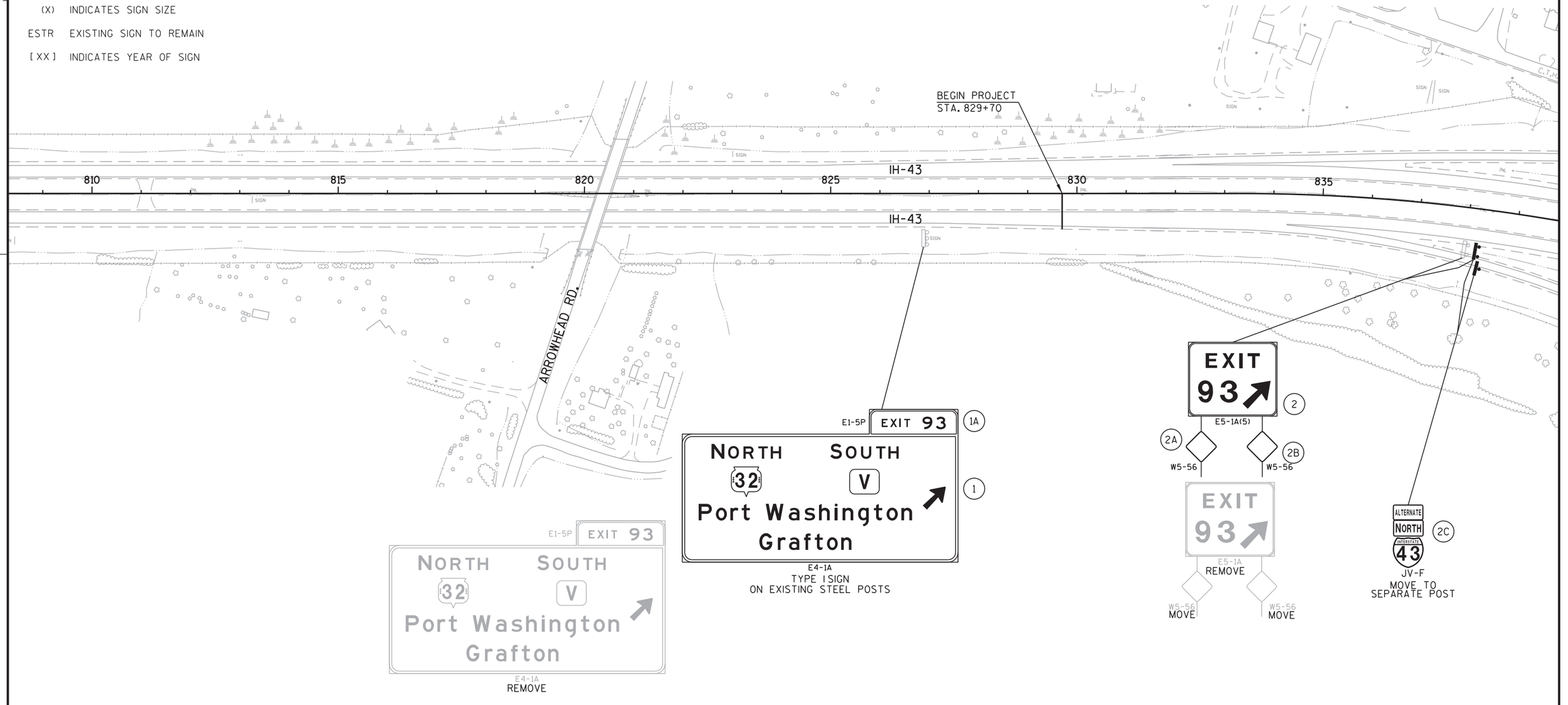
PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PLAN DETAILS	SHEET 54	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

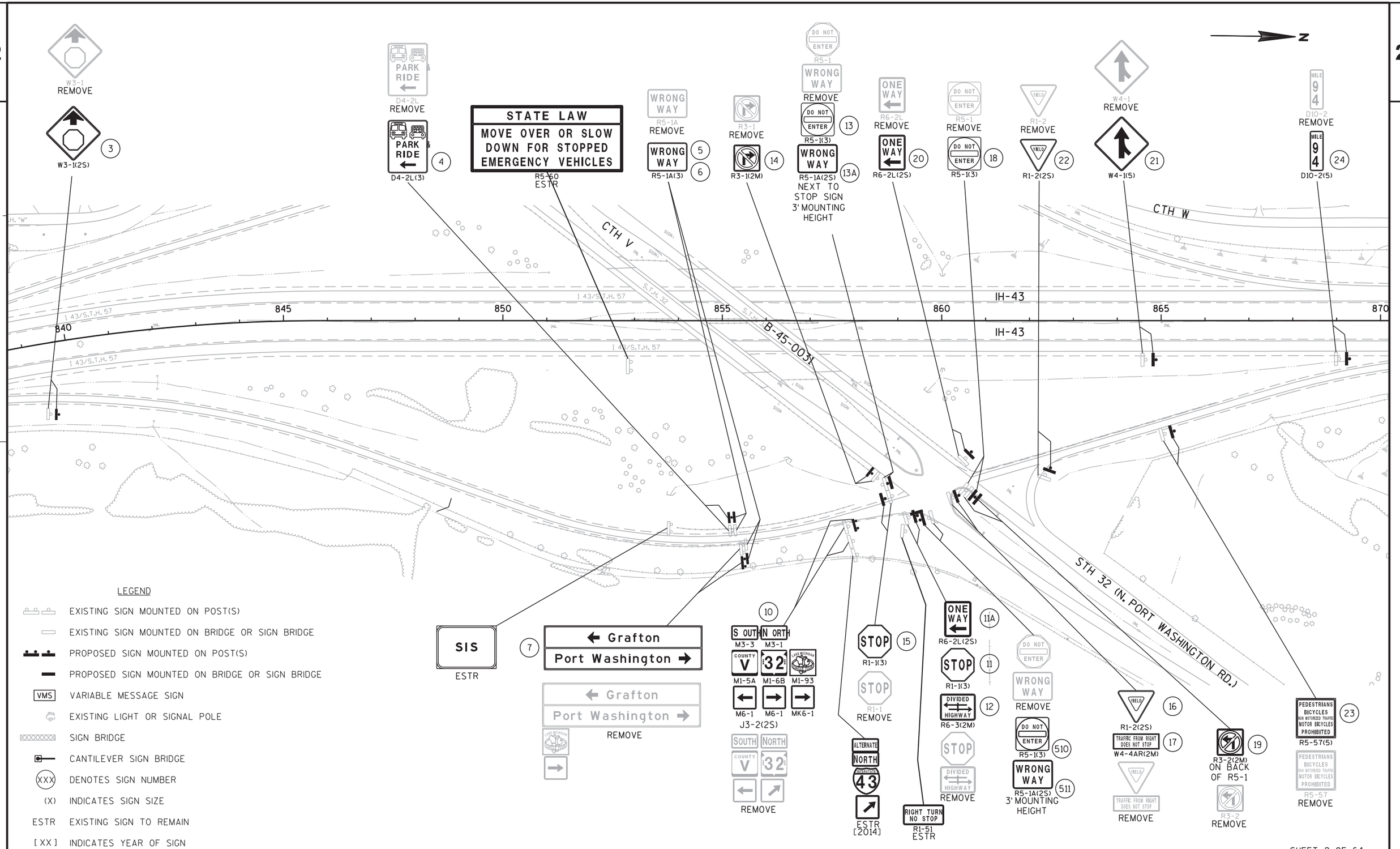
NORTHBOUND



SHEET 1 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 55 E

FILE NAME : J:\projects\d2_12290543\Sign\023201_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023202_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1
WISDOT/CADDS SHEET 42

2

N

REMOVE

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

R3-4B(5) 27 28

C.T.H. "W"

CTH W

SEPTIC

SIGN

I 43/S.T.H. 57

IH-43

870 875 880 90 95 100

N ORTH MB3-1 25

INTERSTATE 43 M1-1

57 M1-6 J4-1(5)

N ORTH INTERSTATE 43 57 REMOVE

SPEED LIMIT 70 ESTR [2015]

LEGEND

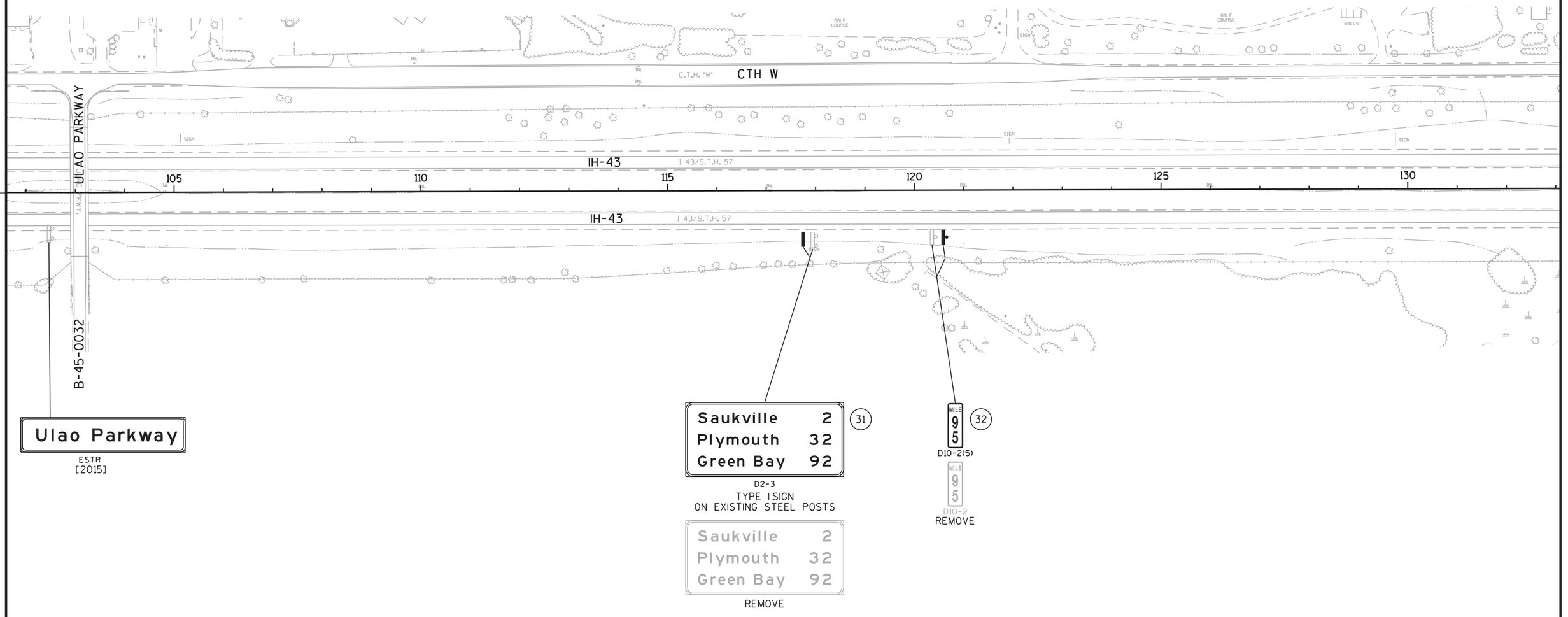
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

N



SHEET 4 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 58 E

FILE NAME : J:\projects\d2_12290543\Sign\023204_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN



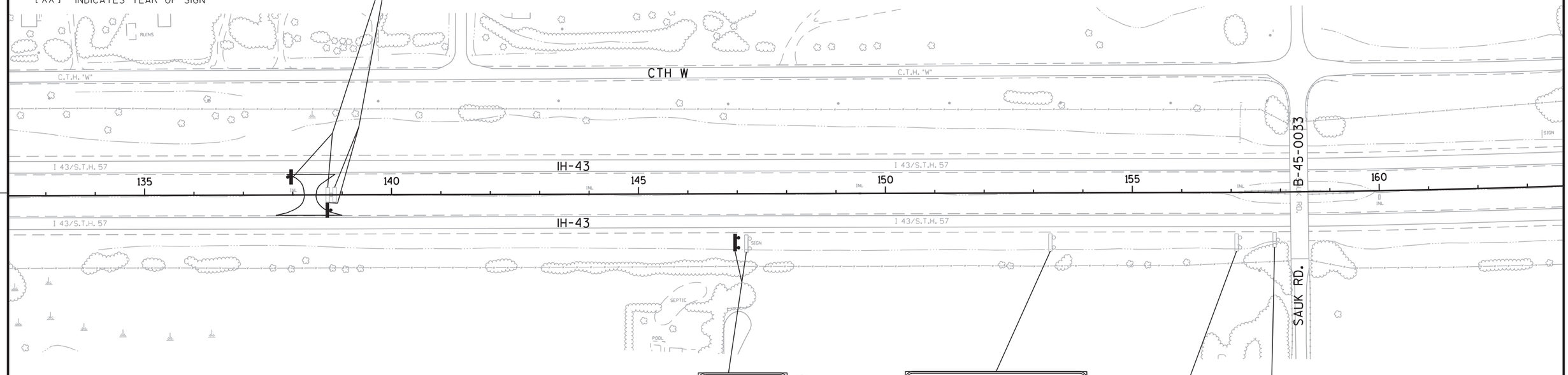
REMOVE



33 34

R3-4B(5)

N



E1-5P EXIT 96 37A

33

Saukville
Port Washington
1 MILE

37

E1-1A
TYPE I SIGN
ON EXISTING STEEL POSTS

E1-5P EXIT 96

33

Saukville
Port Washington
1 MILE

E1-1A
REMOVE

Historic Downtown
Port Washington
EXIT 96

ESTR
TYPE I

155-56
ESTR
TYPE II

E SaukRd

ESTR
[2015]

SHEET 5 OF 64

59

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023205_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

N

REMOVE
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

38 39
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
R3-4B(5)

C.T.H. "W"

SIGN

WALLS

SIGN

I 43/S.T.H. 57

165 170 175 180 185 190

IH-43

INL

I 43/S.T.H. 57

IH-43

I 43/S.T.H. 57

SIGN

SIGN

SIGN

MILE 9 6
42
D10-2(5)

MILE 9 6
D10-2
REMOVE

SIS
FOOD
ESTR
TYPE I

SIS
GAS | LODGING
ESTR
TYPE I

SHEET 6 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

60

FILE NAME : J:\projects\d2_12290543\Sign\023206_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

N

EXIT 96 — E5-1A REMOVE

LEFT EXIT 97 / 57 NORTH / Plymouth / 1 MILE — E1-5P, E1-4A REMOVE

LEFT EXIT 97 (44A) / 57 NORTH / Plymouth / 1 MILE (44) — E1-5P, E1-4A TYPE I SIGN ON EXISTING STEEL POSTS

W5-52L REMOVE

W5-52R REMOVE

EXIT 96 (45) — E5-1A(5)

ALTERNATE NORTH INTERSTATE 43 (45C) — JV-F MOVE TO SEPARATE POST

45A — W5-56 MOVE

45B — W5-56 MOVE

W5-52L(3) 4' HEIGHT (48)

W5-52R(3) 4' HEIGHT (47)

STH 33

IH-43

195 200 205 210 215 220

B-45-0035

B-45-0034

EXIT 50 M.P.H. — W13-2 ESTR [2015]

E1-5P EXIT 96 (43A) / 33 / Saukville / Port Washington (43) — E4-1A TYPE I SIGN ON EXISTING STEEL POSTS

E1-5P EXIT 96 / 33 / Saukville / Port Washington — E4-1A REMOVE

W3-3(2) (46)

W3-3 REMOVE

SIS — ESTR

SEE SHEET 7A FOR SIGNS IN THIS AREA

(57) W4-3R(5)

W4-3 REMOVE

(58) PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED — R5-57(5)

R5-57 REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

N

SIS ESTR

SIS ESTR

WRONG WAY R5-1A REMOVE

WRONG WAY (50) (51) R5-1A(3)

STOP (52) R1-1F(3) ON SIGNAL POLE

STOP R1-1F REMOVE

DIVIDED HIGHWAY REMOVE

DIVIDED HIGHWAY (60) R6-3(2M) ON SIGNAL POLE

R3-1 REMOVE

R3-1(2S) (192)

W ES M3-4 33 M1-6 (59) M6-1 J3-1(2S) ON SIGNAL POLE

W ES 33 ONE WAY R6-2L REMOVE

ONE WAY (504) R6-2L(2S)

IH-43 I-43/S.T.H. 57 B-45-0035

IH-43 I-43/S.T.H. 57 B-45-0034

STH 33

210 215 220

SIGN

INL MH

Saukville
Port Washington (191) D1-2

Saukville
Port Washington REMOVE

(512) ONLY ONLY ONLY R3-8T(2S)

ONLY ONLY ONLY REMOVE

W EST M3-4 E AST M3-2 (49) 33 M1-6 33 M1-6 M6-1 M6-1 J3-2(2S)

WEST 33 EAST 33 REMOVE

ONE WAY (505) R6-2L(2S) ON SIGNAL POLE

ONE WAY REMOVE

(55) W12-1D(2S) 2' HEIGHT

REMOVE

STOP (53) (513) R1-1F(3) ON SIGNAL POLE

STOP R1-1F REMOVE

DIVIDED HIGHWAY REMOVE

DIVIDED HIGHWAY (60A) R6-3(2M) ON SIGNAL POLE

ONE WAY (505) R6-2L(2S) ON SIGNAL POLE

ONE WAY REMOVE

(522) (54) DO NOT ENTER R5-1(3)

(522A) (54A) WRONG WAY R5-1A ON SIGNAL POLE 3' MOUNTING HEIGHT

DO NOT ENTER R5-1

WRONG WAY REMOVE

SHEET 7A OF 64

62

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023207a_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

EXIT 97
57 NORTH
Plymouth
REMOVE

Fredonia 6
Random Lake 11
Plymouth 28
REMOVE

MILE 97
D10-2
REMOVE

MILE 97
61
D10-2(5)

R3-4B
REMOVE

62
R3-4B(5)

66A
LEFT EXIT 97
E1-5P

66
57 NORTH
Plymouth

E6-51
TYPE I SIGN
ON SIGN BRIDGE
INSTALL NEW
I-BEAMS

ALTERNATE NORTH
INTERSTATE 43
USE LEFT LANE
ESTR

Fredonia 6
Random Lake 11
Plymouth 28
63
D2-3
TYPE I SIGN
ON EXISTING STEEL POSTS

IH- 43 / STH 57 SB

I 43/S.T.H. 57

225 230 235 240 245 250

230 235 240 245 250

I 43/S.T.H. 57

S-45-2

SPEED LIMIT 70
R2-1(5)
ESTR
[2015]

INTERSTATE 43 NORTH
Green Bay
65
E6-51
TYPE I SIGN
ON SIGN BRIDGE
INSTALL NEW
I-BEAMS

INTERSTATE 43 NORTH
Green Bay
REMOVE

Sheboygan 30
Manitowoc 51
Green Bay 89
64
D2-3
TYPE I SIGN
ON EXISTING STEEL POSTS

Sheboygan 30
Manitowoc 51
Green Bay 89
REMOVE

ALTERNATE NORTH
INTERSTATE 43
ESTR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

STH 57 SB

IH-43 SB

B-45-0037

STH 57 NB

IH-43

EXIT 97
57 NORTH
Plymouth

REMOVE

68A
LEFT
EXIT 97
E1-5P

68
57 NORTH
Plymouth

E6-51
TYPE I SIGN
ON SIGN BRIDGE
INSTALL NEW
I-BEAMS

ALTERNATE
NORTH
43

ESTR
[2015]

S-45-4

EXIT
97

E5-1A
ESTR
[2014]

67
SLOWER TRAFFIC KEEP RIGHT
R4-3(5)

SLOWER TRAFFIC KEEP RIGHT
R4-3
REMOVE

70
MILE
98
D10-2(5)

MILE
98
D10-2
REMOVE

71
N ORTH
MB3-1
43
M1-1
J4-1(5)

N ORTH
43
REMOVE

69
43 NORTH
Green Bay

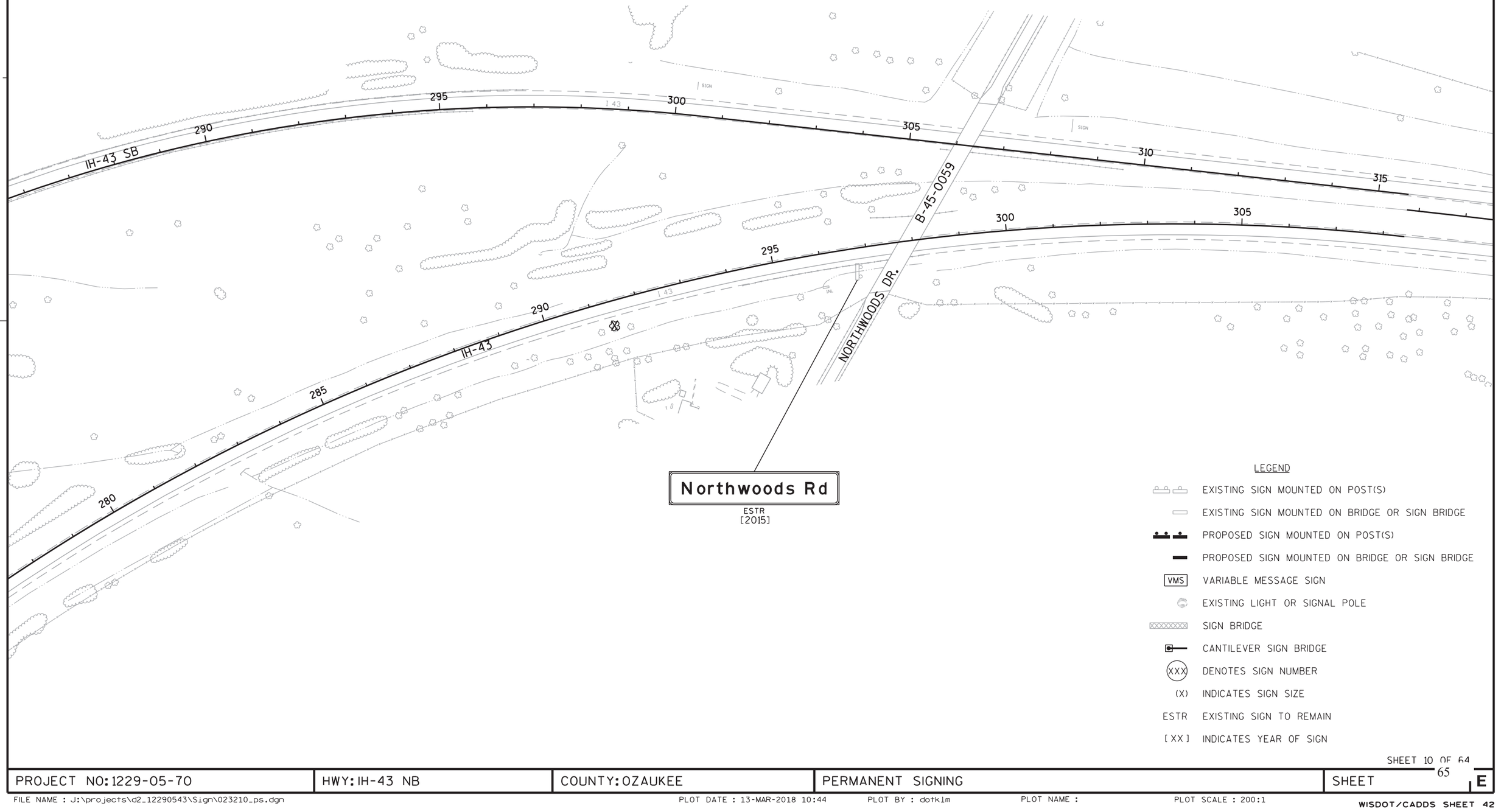
E6-51
TYPE I SIGN
ON SIGN BRIDGE
INSTALL NEW
I-BEAMS

43 NORTH
Green Bay

REMOVE

2

2

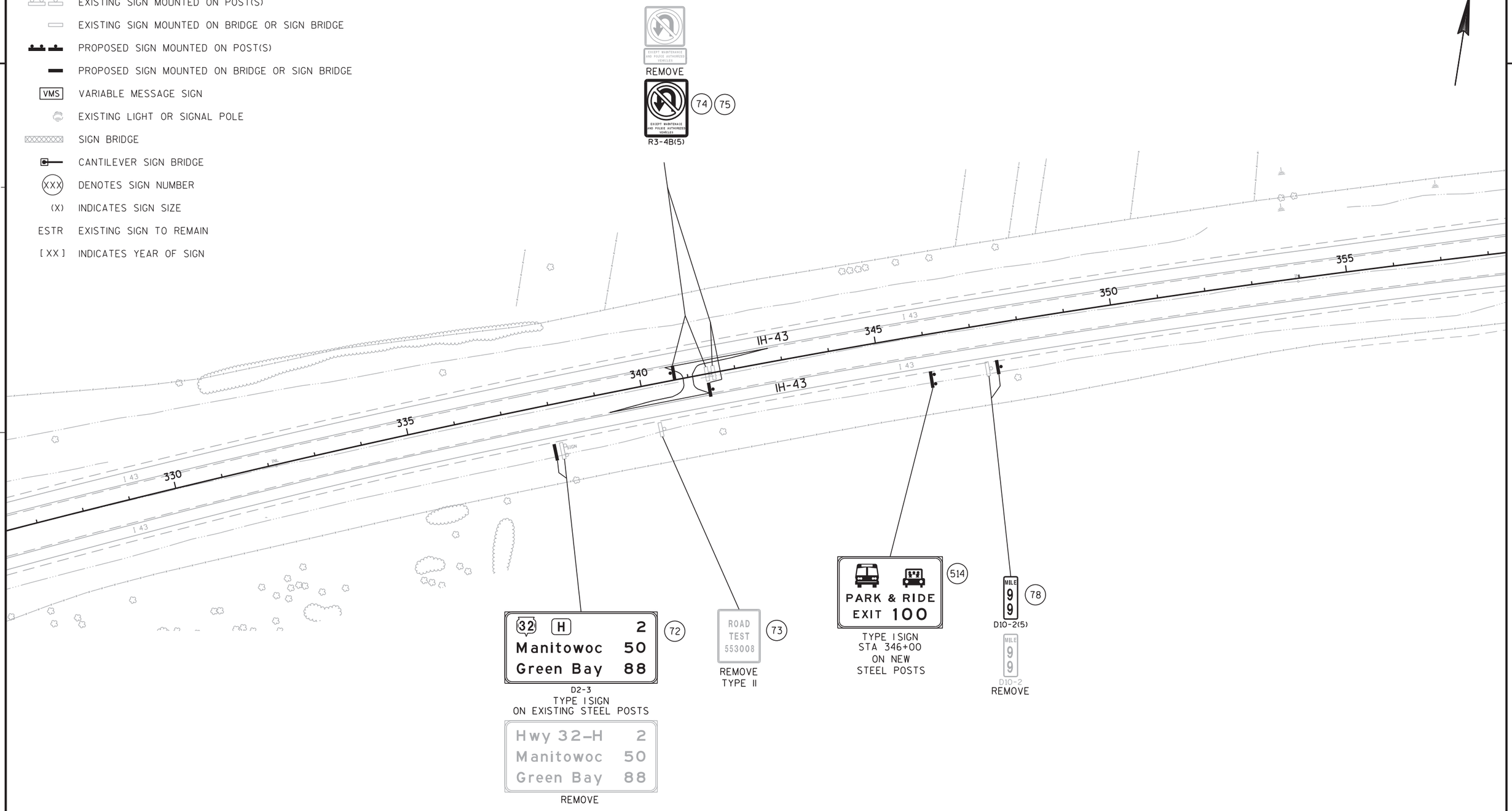


LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN



PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET

SHEET 11 OF 64
66
E

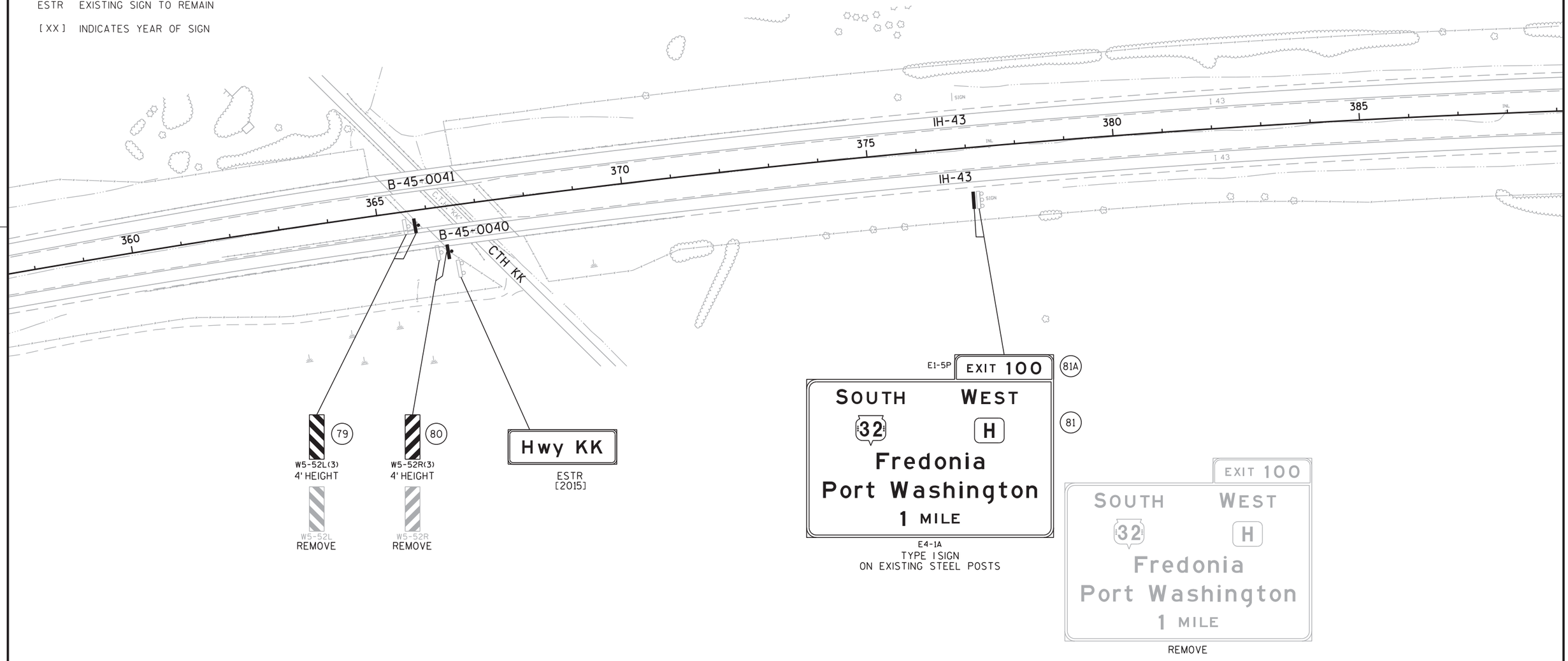
FILE NAME : J:\projects\d2_12290543\Sign\023211_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN



PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

SHEET 12 OF 64
67

FILE NAME : J:\projects\d2_12290543\Sign\023212_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

N

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
REMOVE

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
83 84
R3-4B(5)

MINK RANCH RD.

B-45-0042

390 395 400 405 410 415

IH-43

I 43

INL.

RIPRAP

SIGN

CTH B

SEPTIC

Hwy B
ESTR
[2015]

MILE 1 0 0
D10-3(5)

MILE 1 0 0
D10-3
REMOVE

SIS
ESTR
TYPE I

32 NORTH
AHEAD
82
D2-3
TYPE I SIGN
ON EXISTING STEEL POSTS

32 NORTH
AHEAD
REMOVE

SHEET 13 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

68

FILE NAME : J:\projects\d2_12290543\Sign\023213_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

N

W5-52L
REMOVE

88
W5-52L(3)
4' HEIGHT

EXIT
50
M.P.H.
W13-2
ESTR
[2015]

ALTERNATE
NORTH
INTERSTATE
43
95A
JV-F
MOVE TO
SEPARATE POST

EXIT
100
E5-1A
REMOVE

EXIT
100
95
E5-1A(5)

95B
W5-56
MOVE

95C
W5-56
MOVE

SIS
ESTR

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
REMOVE

91 92
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
R3-4B(5)

WRONG
WAY
R5-1A
REMOVE

WRONG
WAY
98
R5-1A(3)

MINK RANCH RD.
RIPRAP
SAUK CR.
UNION PACIFIC
B-45-0043
B-45-0044
IH-43
I 43
C.T.H. "LL"
SEPTIC
WATER TOWER
SIGN
INL
420
425
430
435
440
445
450

SIS
ESTR

89
W5-52R(3)
4' HEIGHT

W5-52R
REMOVE

E1-5P
EXIT 100
SOUTH
32
WEST
H
Fredonia
Port Washington
E4-1A
ESTR
[2017]

W3-1
REMOVE

96
W3-1(2S)

Fredonia
Port Washington
99
D1-2

Fredonia
Port Washington
REMOVE

WRONG
WAY
97
R5-1A(3)

WRONG
WAY
R5-1A
REMOVE

PARK
RIDE
100
D4-2R(3)

PARK
RIDE
D4-2R
REMOVE

SIS
ESTR

REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

SHEET 14 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023214_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

105 DO NOT ENTER R5-1(3)
105A WRONG WAY R5-1A(2S) 3' MOUNT HEIGHT
DO NOT ENTER R5-1(3)
WRONG WAY R5-1A REMOVE
ONE WAY R6-2L REMOVE
106 ONE WAY R6-2L(2S)
108 R3-1(2S)
MILE 101 D10-3 REMOVE
111 MILE 101 D10-3(5)

445 450 455 460 465 470 475
B-45-0045
IH-43
I 43
I 43/S.T.H. 32
S.T.H. 32
C.T.H. "LL"
C.T.H. "H"
S.T.H. 32 / C.T.H. H
SEPTIC
SIGN

STOP R1-1 REMOVE
WEST M3-4 SOUTH M3-3
COUNTY H M1-5A 32 M1-6B 112
M6-1 M6-1 J3-2(2S)
WEST COUNTY H 32 REMOVE
STOP 508 R1-1(3)
STOP R1-1 REMOVE
DO NOT ENTER R5-1C
WRONG WAY R5-1A REMOVE
106A ONE WAY R6-2R(2S)
STOP 101 R1-1(3)
DIVIDED HIGHWAY 102 R6-3(2M)
DO NOT ENTER 515 R5-1C(3)
WRONG WAY 516 R5-1A(2S) 3' MOUNT HEIGHT
STOP 103 R1-1(3)
DIVIDED HIGHWAY 102 R6-3(2M)
STOP R1-1 REMOVE
ONE WAY 107 R6-2L(2S)
ONE WAY R6-2L REMOVE
W4-1(5) 109
W4-1 REMOVE
NORTH MB3-1 INTERSTATE 43 M1-1 32 M1-6B LAKE MICHIGAN CIRCLE TOUR M1-93 J4-1(5) 110
NORTH INTERSTATE 43 32 LAKE MICHIGAN CIRCLE TOUR REMOVE

LEGEND
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [-XX] — INDICATES YEAR OF SIGN

W5-52L
REMOVE

W5-52L(3)
4' HEIGHT
114

REMOVE
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
116 117
R3-4B(5)

HIGHLAND DR.
HIGHLAND LN.
HIGHLAND DR.
B-45-0047
I 43/S.T.H. 32
IH-43
480 485 490 495 500 505
B-45-0046
I 43/S.T.H. 32
IH-43
I 43/S.T.H. 32
C.T.H. "LL"
C.T.H. "LL"

HIGHLAND LN
ESTR
[2014]

SPEED LIMIT 70
ESTR

115
W5-52R(3)
4' HEIGHT

W5-52R
REMOVE

MILE 102
120
D10-3(5)

MILE 102
D10-3
REMOVE

D 6
Sheboygan 23
Green Bay 84
121
D2-3
TYPE I SIGN
ON EXISTING STEEL POSTS

HWY D 6
Sheboygan 23
Green Bay 84
D2-3
REMOVE

SHEET 16 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 71 E

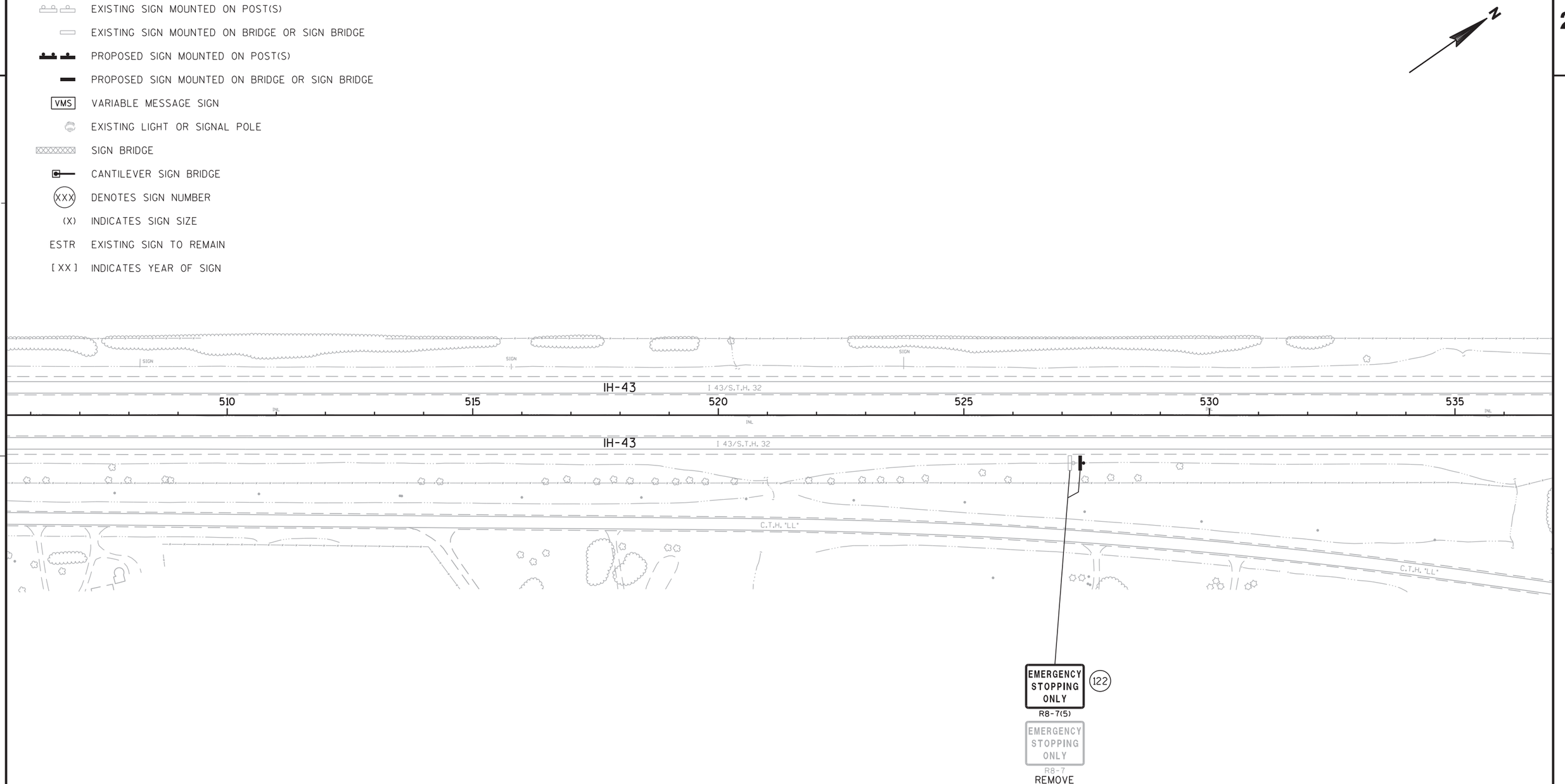
FILE NAME : J:\projects\d2_12290543\Sign\023216_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN



2

SHEET 17 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 72 E

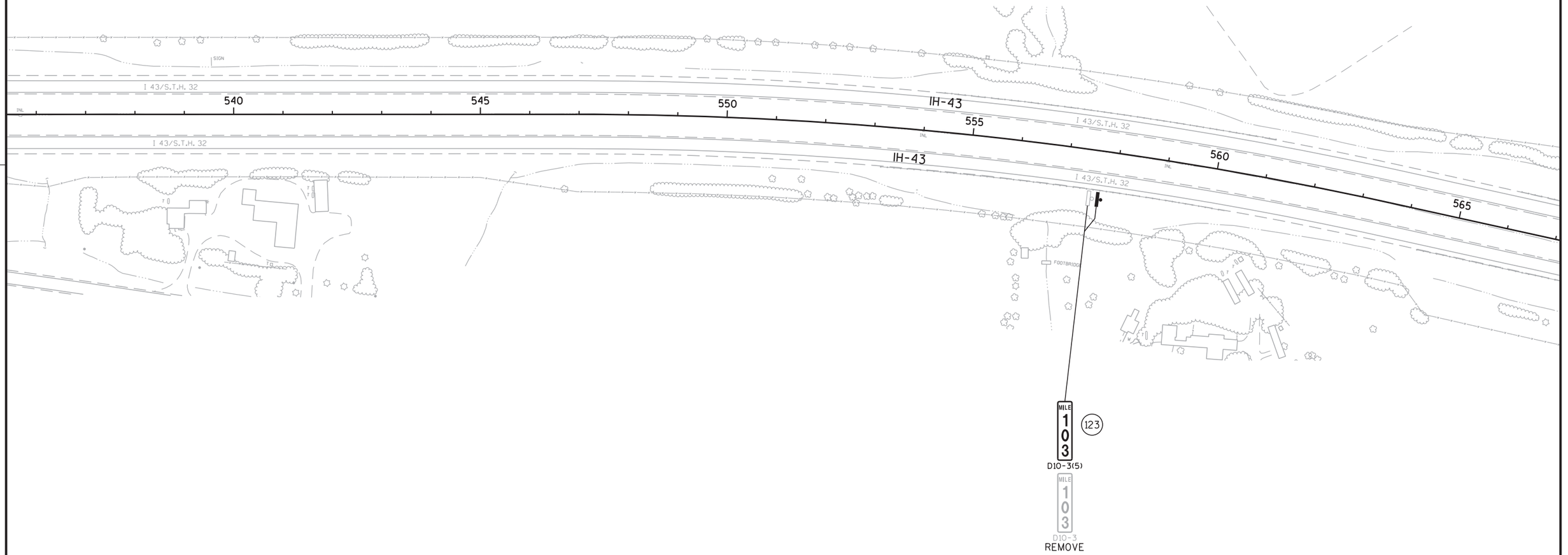
FILE NAME : J:\projects\d2_12290543\Sign\023217_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

LEGEND

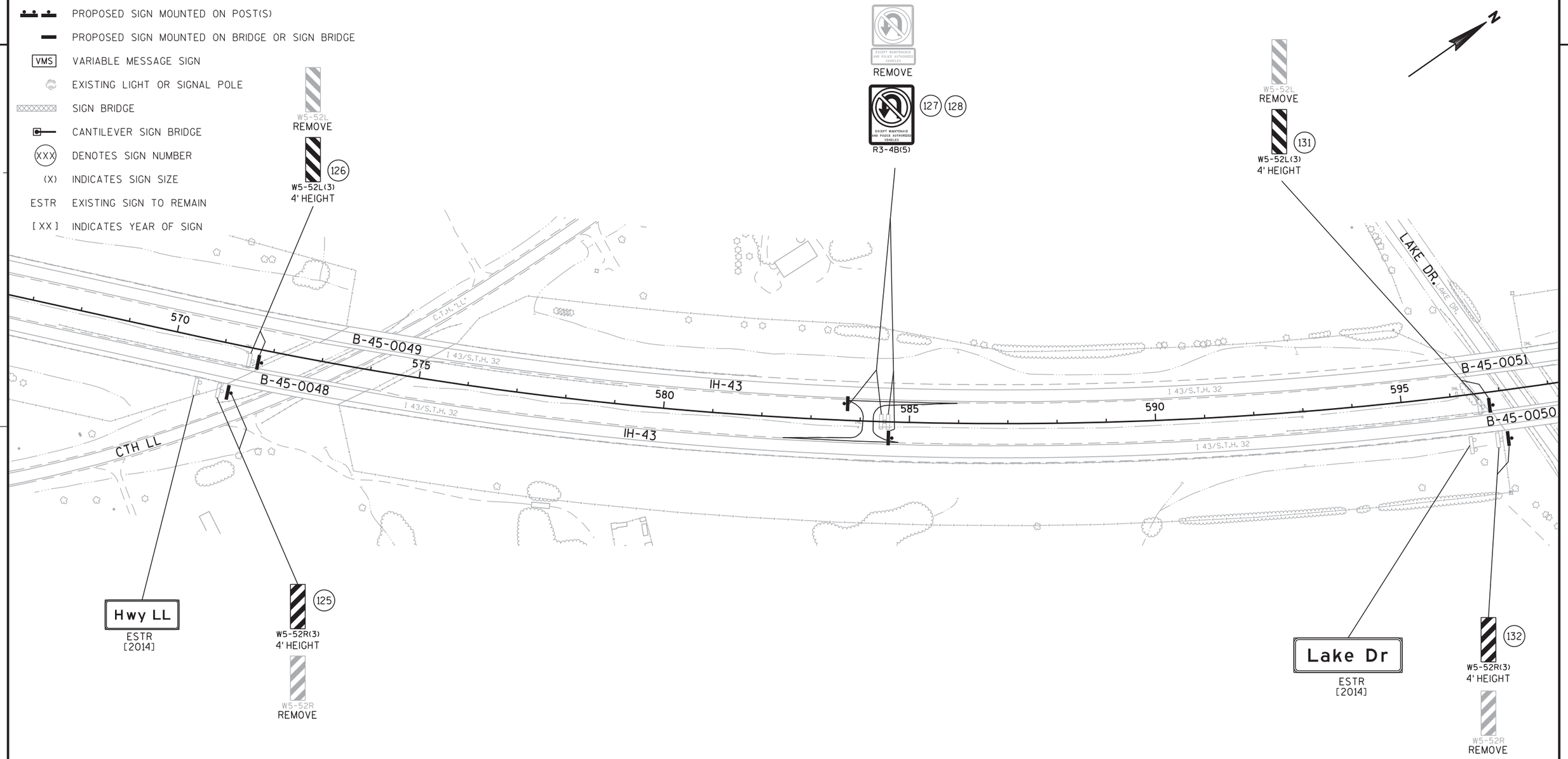
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN



2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN



2

N

LAKE DR.

I 43/S.T.H. 32

600

605

610

IH-43

615

620

625

SEPTIC

MILE 104 (133)
D10-3(5)

MILE 104
D10-3
REMOVE

LEGEND

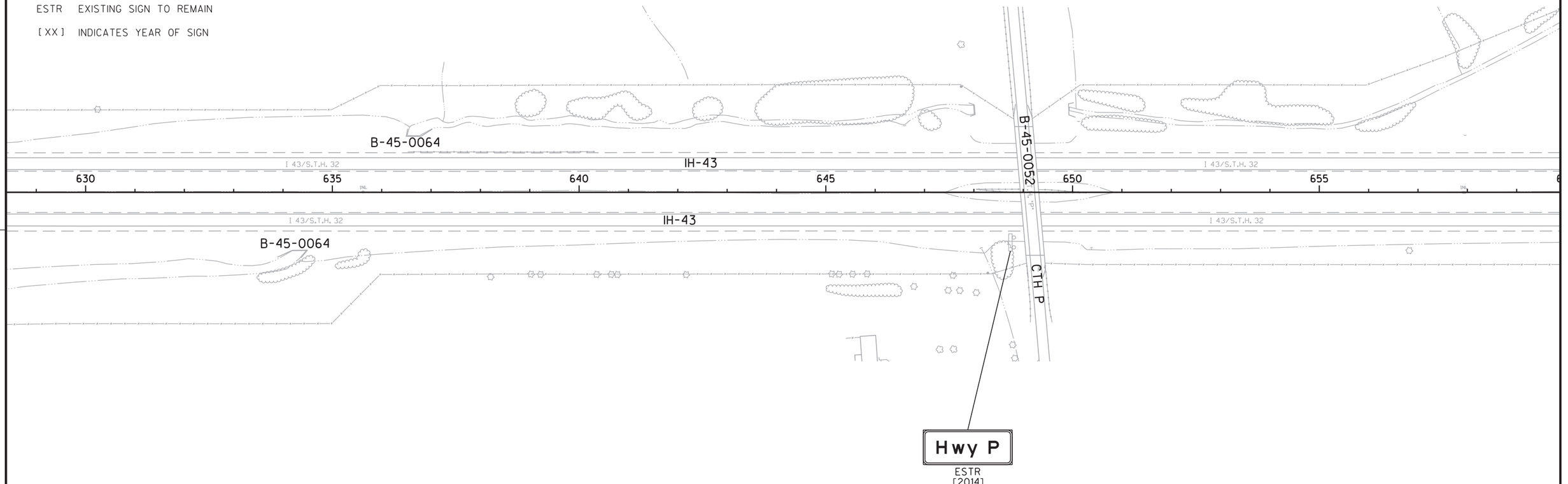
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

N



2

N

MILE 105
D10-3
REMOVE

MILE 105 (138)
D10-3(5)

I 43/S.T.H. 32 — IH-43 — I 43

660 665 670 675 680 685 690

I 43/S.T.H. 32 — IH-43 — I 43

SIGN

(134) (135)
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
R3-4B(5)

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
REMOVE

(139)
SLOWER TRAFFIC KEEP RIGHT
R4-3(3)

SLOWER TRAFFIC KEEP RIGHT
R4-3
REMOVE

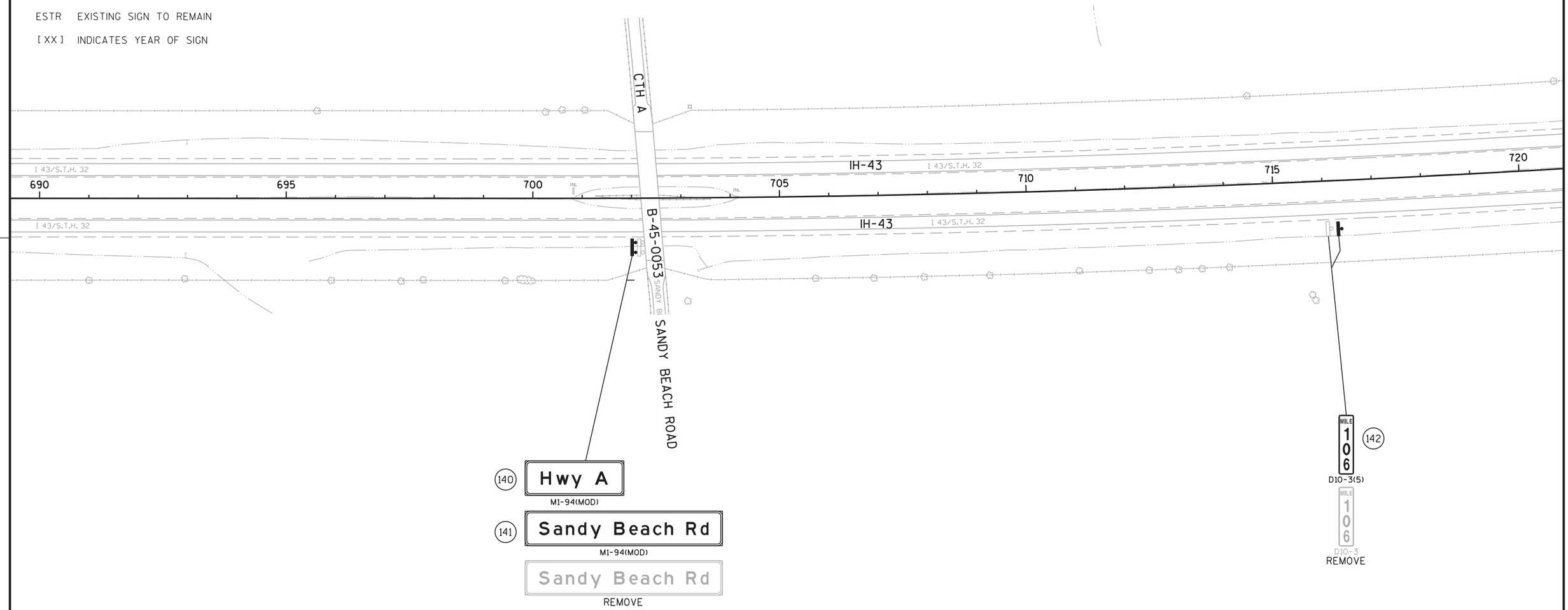
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

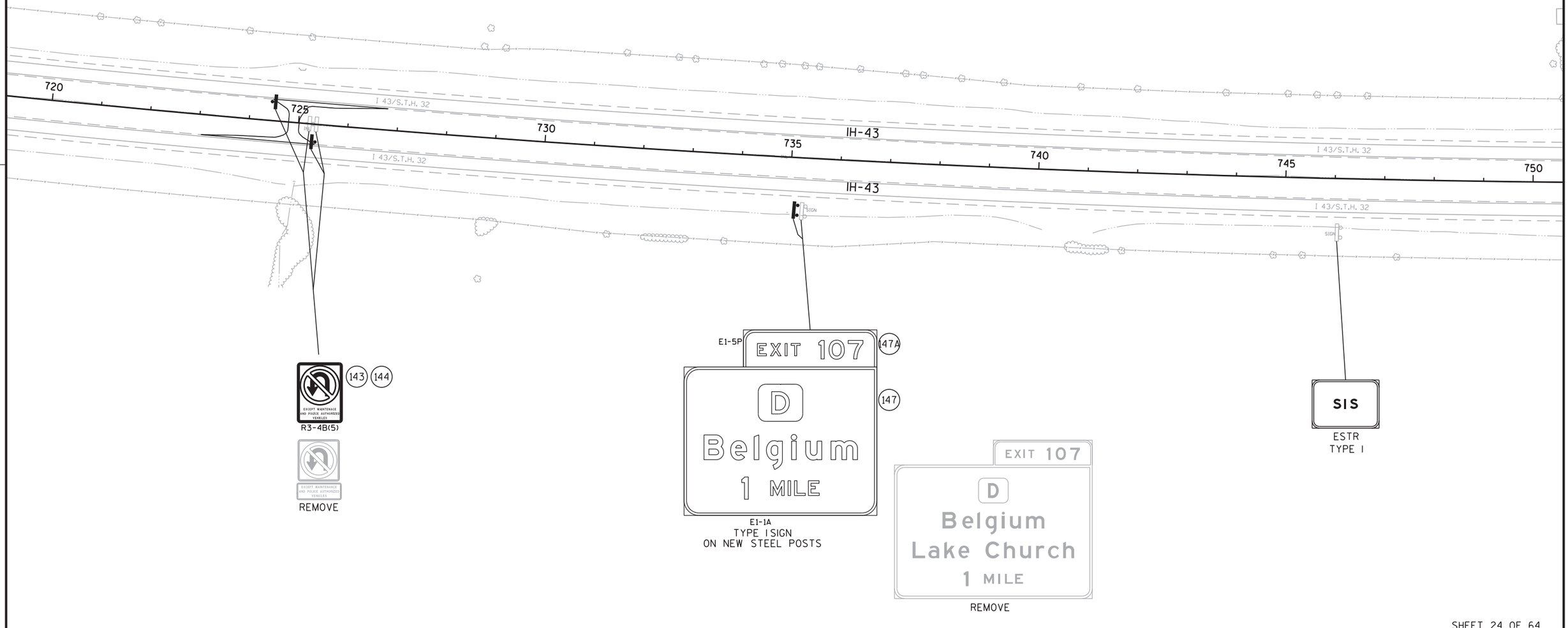


2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

N



SHEET 24 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023224_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

N

B-45-0054 BEACH RD.

CEDAR BEACH RD.

IH-43 I 43/S.T.H. 32

750 755 760 765 770 775 780

SIGN

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

REMOVE

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

149 150

R3-4B(5)

SIS

ESTR
TYPE I

Cedar Beach Rd 503

M1-94(MOD)

Cedar Beach Rd

REMOVE

Luxembourg American Museum EXIT 107

ESTR
TYPE I

MILE 107 153

D10-3(5)

MILE 107

D10-3

REMOVE

Harrington Beach State Park EXIT 107

D2-3
ESTR
SIGN WAS REPLACED IN 2011 DO TO KNOCKDOWN

2

SHEET 25 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 80 E

FILE NAME : J:\projects\d2_12290543\Sign\023225_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

N

I 43/S.T.H. 32
IH-43
780 785 790 795 800 805 810
B-45-0055
CTH D

EXIT 107
E5-1A
REMOVE

EXIT 107
155
E5-1A(5)
155A
W5-56
MOVE
155B
W5-56
MOVE

W3-1
REMOVE
158
W3-1(2S)

SIS
ESTR

Luxembourg
American
Museum
ESTR

DO NOT ENTER
R5-1
WRONG WAY
R5-1A
REMOVE
DO NOT ENTER
163
R5-1(3)
WRONG WAY
163A
R5-1A(2S)
3' MOUNTING HEIGHT

ONE WAY
R6-2L
REMOVE
ONE WAY
519
R6-2L(2S)
ONE WAY
520
R6-2L(2S)

E1-5P
EXIT 107
154A
D
Belgium
154
E4-1A
TYPE I SIGN
ON NEW STEEL POSTS

EXIT 107
D
Belgium
Lake Church
REMOVE

155-56
ESTR

Belgium
Lake Church
Harrington Beach
State Park
REMOVE
TYPE 1

Belgium
156
D1-2
TYPE II SIGN

Harrington Beach
State Park
157
D7-53
BROWN

WRONG WAY
159
R5-1A(3)
WRONG WAY
160
R5-1A
REMOVE

COUNTY D
161
M1-5A
M6-4
J3-1(2S)
COUNTY D
REMOVE

STOP
164
165
R1-1(3)
DIVIDED HIGHWAY
166
167
R6-3(2M)
STOP
R1-1
REMOVE

STOP
162
R1-1(3)
STOP
R1-1
REMOVE

DO NOT ENTER
521
R5-1(3)
DO NOT ENTER
R5-1
REMOVE

DO NOT ENTER
R5-1
WRONG WAY
REMOVE
DO NOT ENTER
517
R5-1(3)
WRONG WAY
518
R5-1A(3)
3' MOUNT HEIGHT

ONE WAY
163B
R6-2R(2S)

155-56
ESTR

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

SHEET 26 OF 64

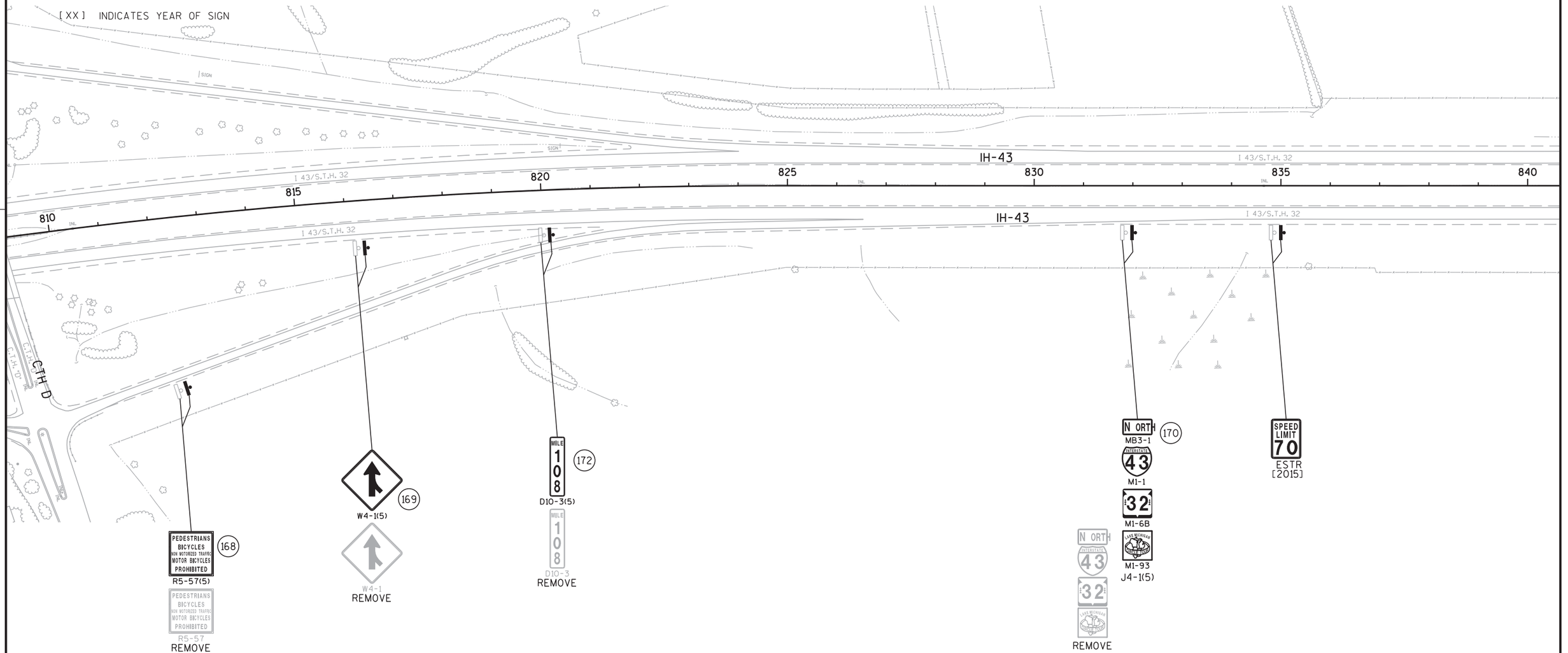
81

FILE NAME : J:\projects\d2_12290543\Sign\023226_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN



SHEET 27 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 82 E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

N

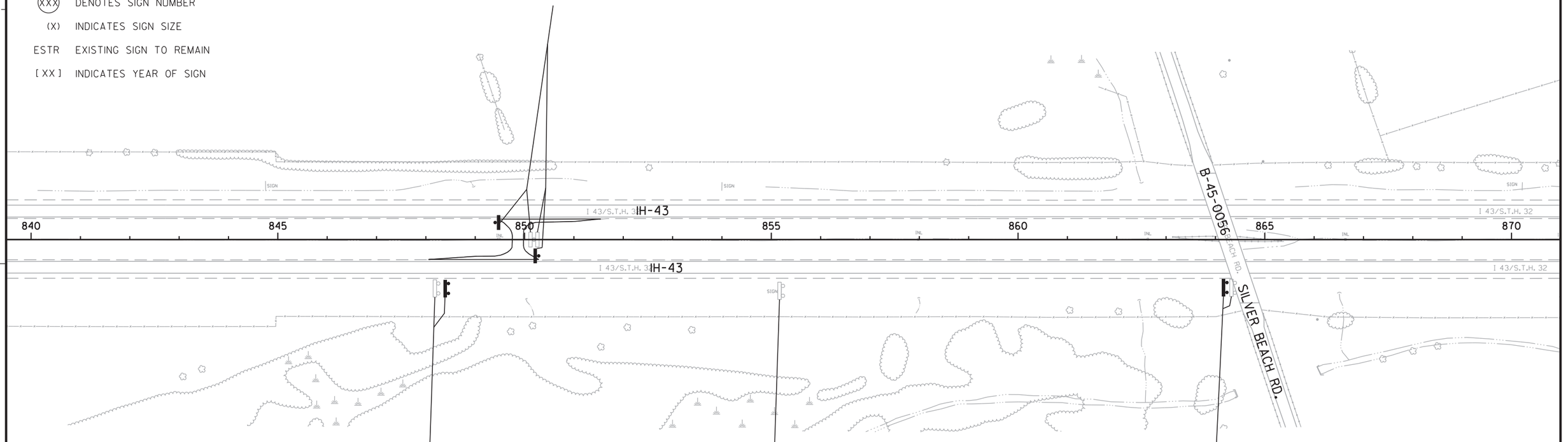
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

REMOVE

506 507

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

R3-4B(5)



RIDESHARE
INFO CALL
1-800-455-POOL

173

D12-2A(5)

RIDESHARE
INFO CALL
1-800-455-POOL

D12-2A

REMOVE

Cedar Grove 4
Manitowoc 43
Green Bay 78

174

E8-1
TYPE I SIGN
ON EXISTING STEEL POSTS

Cedar Grove 4
Manitowoc 43
Green Bay 78

REMOVE

Silver Beach Rd

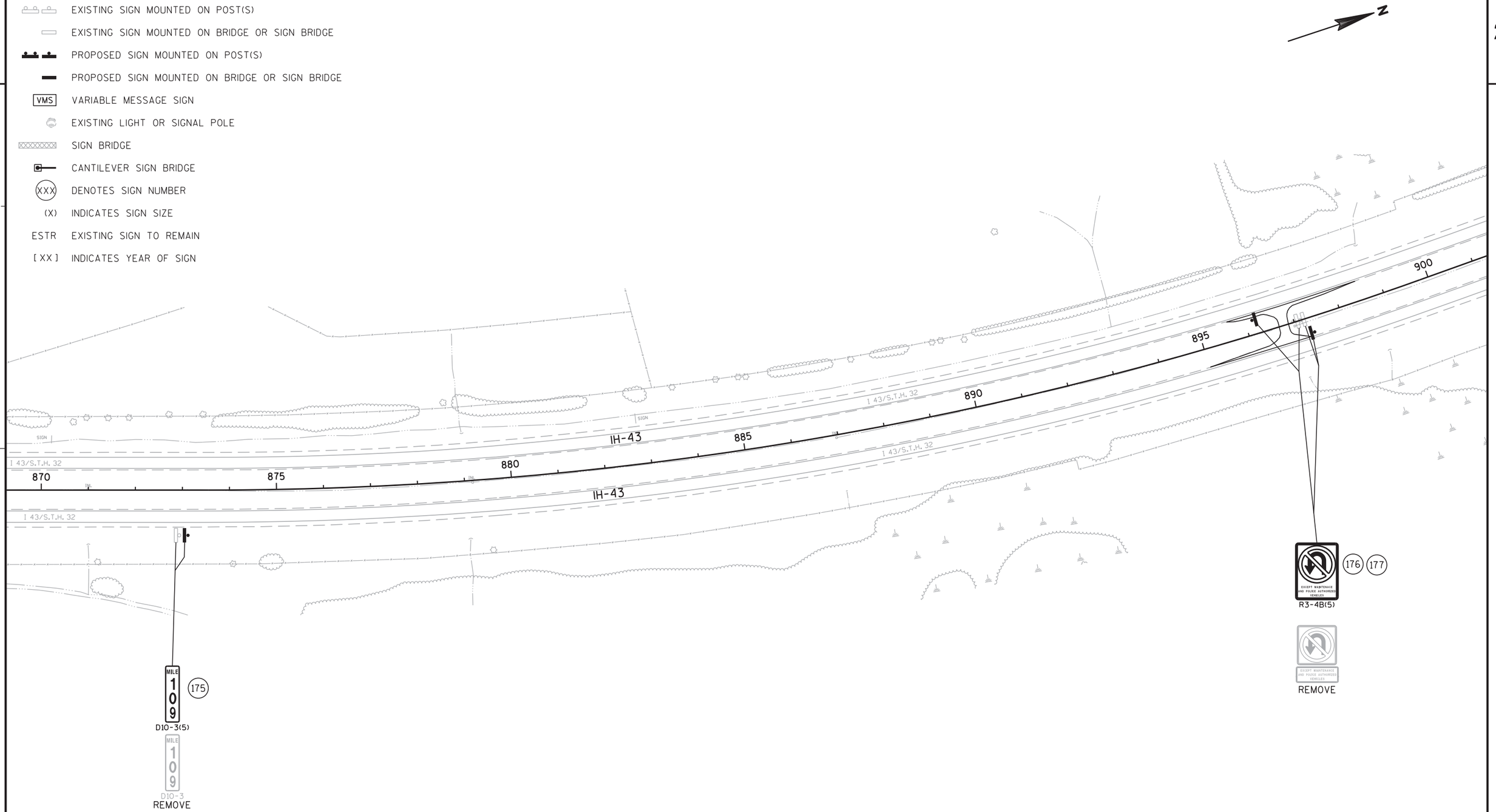
500

Silver Beach Rd

REMOVE
[2013]

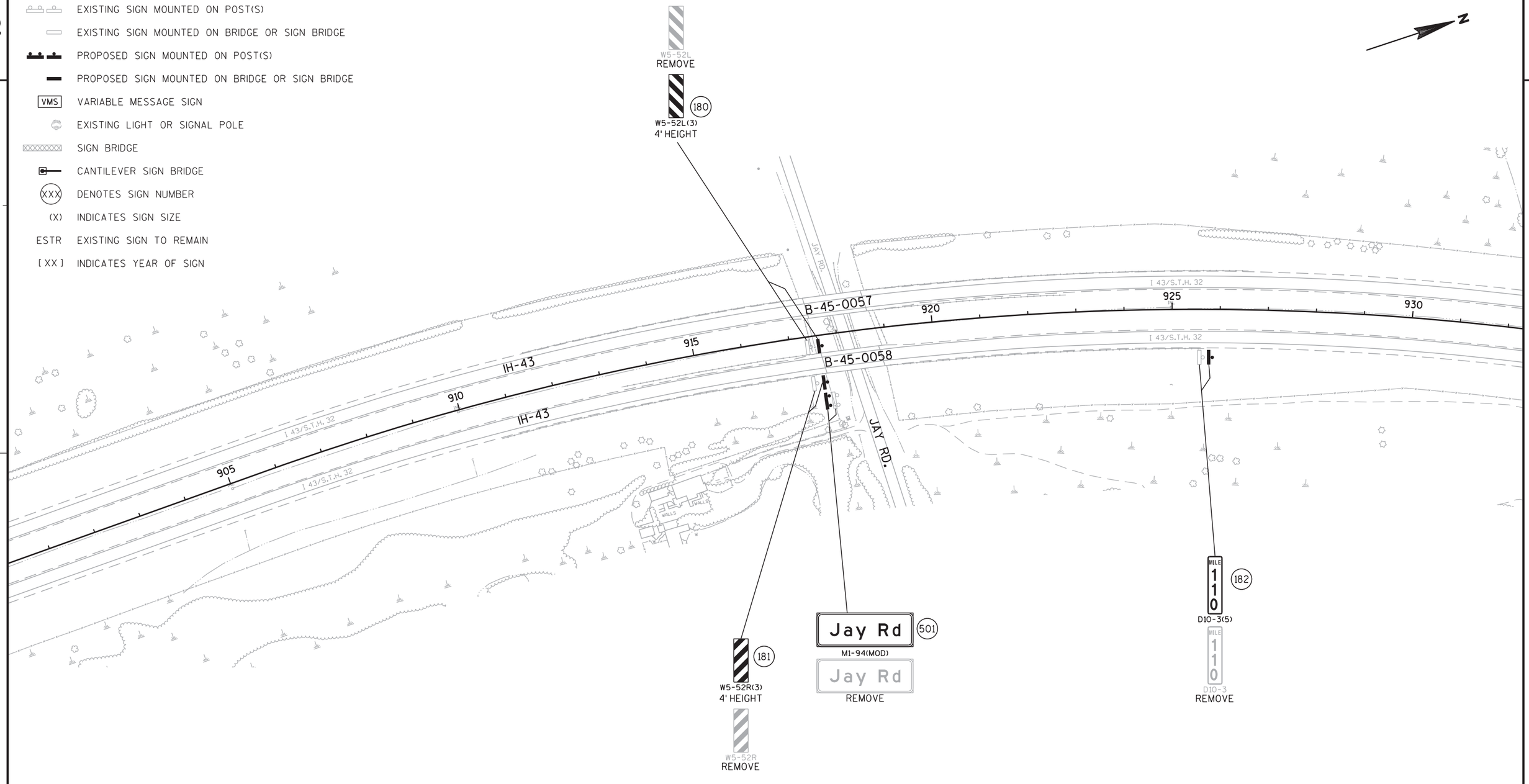
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN



PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

SHEET 30 OF 64

85

FILE NAME : J:\projects\d2_12290543\Sign\023230_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

N

935

940

945

950

955

960

IH-43

I 43/S.T.H. 32

I 43/S.T.H. 32

IH-43

I 43/S.T.H. 32

I 43/S.T.H. 32

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

N

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
REMOVE

185 186
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
R3-4B(5)

W5-52R
REMOVE

190
W5-52R(3)
4' HEIGHT

W5-52L
REMOVE

189
W5-52L(3)
4' HEIGHT

SHEBOYGAN COUNTY
OZAUKEE COUNTY

END PROJECT
STA. 977+29.01

965 970 975 980 985 990

IH-43
I 43/S.T.H. 32

B-45-0060
B-45-0061

PEBBLE BEACH RD.

502 Pebble Beach Rd
M1-94(MOD)
Pebble Beach Rd
REMOVE

183 Sheboygan Co
I2-2(5)
Sheboygan Co
REMOVE

MILE 1 1 1 184
D10-3(5)

MILE 1 1 1
D10-3
REMOVE

PROJECT NO: 1229-05-70	HWY: IH-43 NB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

SHEET 32 OF 64
87

FILE NAME : J:\projects\d2_12290543\Sign\023232_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

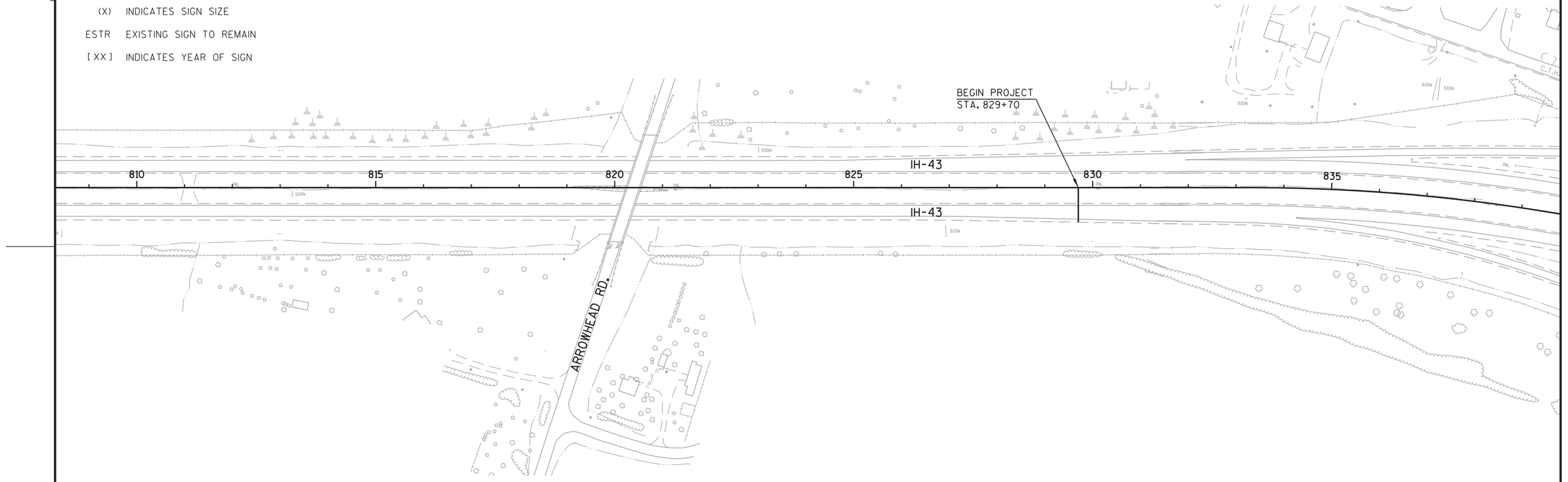
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

SOUTHBOUND



2

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023233_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

201 W4-1(5)

W4-1 REMOVE

R1-2 REMOVE

203 R1-2(2S)

TRAFFIC FROM RIGHT DOES NOT STOP 211 W4-4AR(2M)

210 R1-2(2S)

TRAFFIC FROM RIGHT DOES NOT STOP REMOVE

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED R5-57 REMOVE

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED 202 R5-57(5)

DO NOT ENTER R5-1 REMOVE

WRONG WAY R5-1A REMOVE

365 DO NOT ENTER R5-1(3)

366 WRONG WAY R5-1A(2S) 3' MOUNT HEIGHT

STOP DIVIDED HIGHWAY REMOVE

206 208 STOP R1-1(3)

207 209 DIVIDED HIGHWAY R6-3(2M)

368 TO NORTH 32 JV3-1 REMOVE

NORTH M3-1 32 M1-6B LAKE MICHIGAN CIRCLE TOUR M1-93 COUNTY V M1-5A M6-1 MK6-1 M6-1 212 J3-3(2S)

32 COUNTY V REMOVE

PARK RIDE D4-2R REMOVE

PARK RIDE 213 D4-2R(3)

WRONG WAY R5-1A REMOVE

WRONG WAY 216 217 R5-1A(3)

Port Washington Grafton REMOVE

Port Washington Grafton 219 D1-2

W3-1 REMOVE

218 W3-1(2S)

214 R3-1(2S)

R3-1 REMOVE

SIS ESTR

CTH V

CTH W

ALTERNATE SOUTH INTERSTATE 43 JV-F MOVE MOVE TO SEPERATE POST

MILE 94 D10-2 REMOVE

MILE 94 221 D10-2(5)

EXIT 92 60 Q Grafton 1 MILE REMOVE

EXIT 92 204A 60 Q Grafton 204 1 MILE E1-1A TYPE I SIGN ON EXISTING STEEL POSTS

S OUTH INTERSTATE 43 32 57 ESTR [2015]

205 R3-1(2S)

R3-1 REMOVE

ONE WAY 222 R6-2L(2S)

R6-2L REMOVE

DO NOT ENTER 215 R5-1(3)

WRONG WAY 215A R5-1A(2S) 3' MOUNT HEIGHT

DO NOT ENTER R5-1

WRONG WAY R5-1A REMOVE

EXIT 93 REMOVE

EXIT 220 93 E5-1A(5)

220B W5-56(2S)

220C W5-56(2S)

I 43/S.T.H. 57

840 845 850 855 860 865 870

IH-43

S.T.H. 32

B-45-0031

STH 32 (N. PORT WASHINGTON RD.)

N

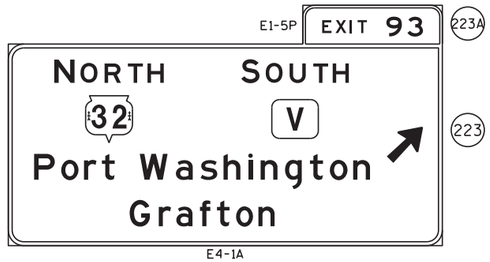
SHEET 34 OF 64

89

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023234_ps.dgn PLOT DATE : 13-MAR-2018 10:44 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

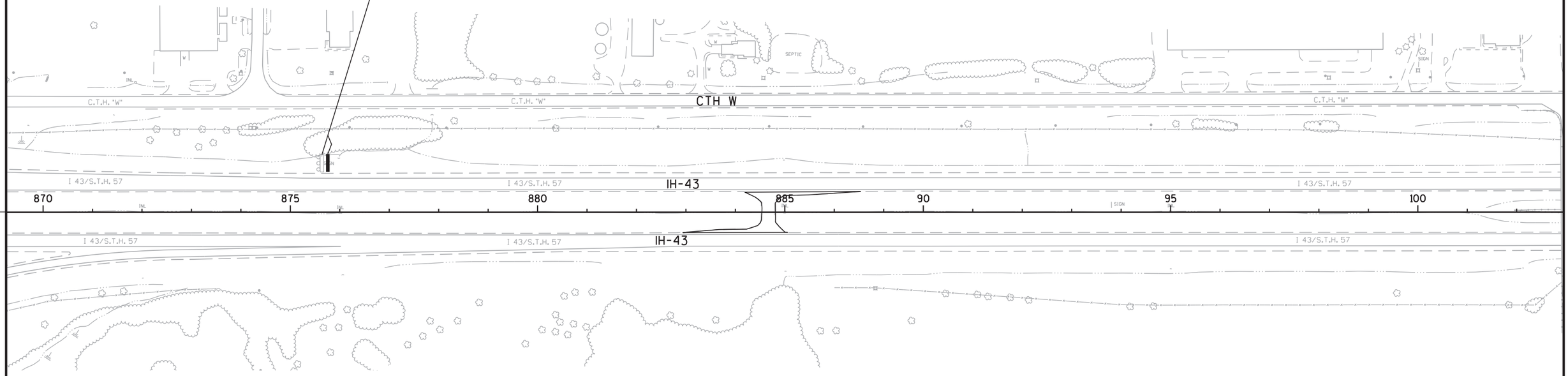


E4-1A
TYPE I SIGN
ON EXISTING STEEL POSTS



E4-1A
REMOVE

N



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023235_ps.dgn
PLOT DATE : 13-MAR-2018 10:45
PLOT BY : dotklm
PLOT NAME :
PLOT SCALE : 200:1
WISDOT/CADDS SHEET 42

2

Ulao Pkwy
ESTR
[2015]

SIS
ESTR

E1-5P EXIT 93
NORTH SOUTH
32 V
Port Washington
Grafton
1 MILE
E1-1A
REMOVE

MILE 95
D10-2
REMOVE

MILE 95 225
D10-2(5)

E1-5P EXIT 93 226A
NORTH SOUTH
32 V
Port Washington
Grafton
1 MILE 226
E1-1A
TYPE I SIGN
ON EXISTING STEEL POSTS

C.T.H. "W" CTH W

IH-43 I 43/S.T.H. 57

105 110 115 120 125 130

ULAO PARKWAY

B-45-0032

PARK & RIDE
EXIT 93 224
D4-3
TYPE I SIGN
ON EXISTING STEEL POSTS

PARK & RIDE
EXIT 93
D4-3
REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023236_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1
WISDOT/CADDS SHEET 42

2

N

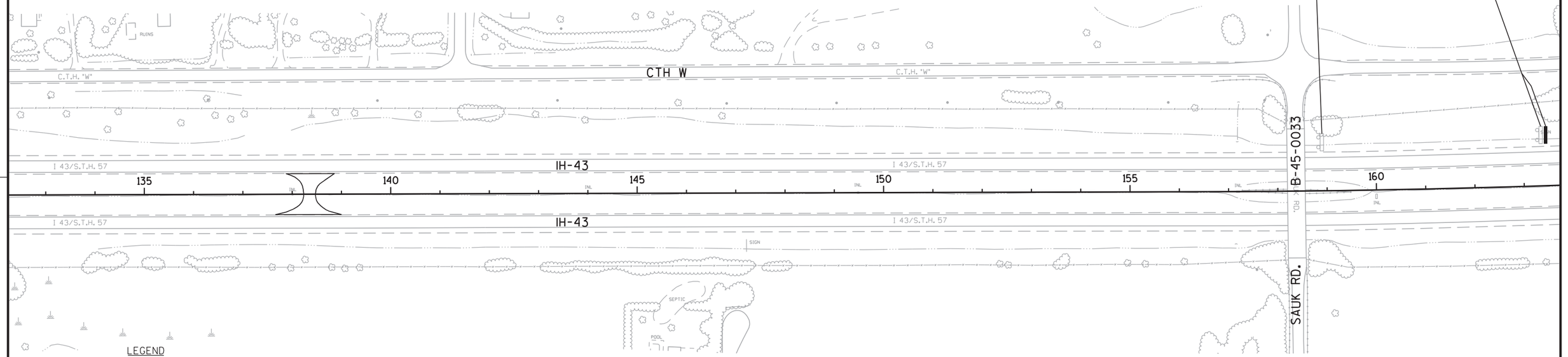
Grafton 4
Milwaukee 24

REMOVE

(227) Grafton 4
Milwaukee 24

D2-2
TYPE I SIGN
ON EXISTING STEEL POSTS

E Sauk Rd
ESTR
[2015]



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

N

MILE 9 6
D10-2
REMOVE

MILE 9 6 (228)
D10-2(5)

RIDESHARE INFORMATION www.rideshare.wi.gov
D12-2B
REMOVE

RIDESHARE INFORMATION www.rideshare.wi.gov (229)
D12-2B(5)

SLOWER TRAFFIC KEEP RIGHT
R4-3
REMOVE

SLOWER TRAFFIC KEEP RIGHT (230)
R4-3(5)

C.T.H. "W"

I 43/S.T.H. 57

IH-43

SIGN

WALLS

INL

165 170 175 180 185 190

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

N

W4-1
REMOVE

RIDESHARE
INFO CALL
1-800-455-POOL
D12-2A
REMOVE

W4-1(5)
244

233
RIDESHARE
INFO CALL
1-800-455-POOL
D12-2A(2)

SPEED
LIMIT
70
R2-1
ESTR
[2015]

SOUTH
INTERSTATE
43
57
REMOVE

SOUTH
INTERSTATE
43
57
374
JV4-1(5)

FOSTER ST.

STH 33
S.T.H.33

SEE SHEET 39A FOR SIGNS IN THIS AREA

IH-43

I-43/S.T.H. 57

B-45-0035

B-45-0034

195 200 205 210 215 220

SPONSOR
155-56
ESTR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED
R5-57
REMOVE
PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED
237
R5-57(5)

ONE WAY
R6-2L
ESTR

STH 33

YIELD
R1-2
REMOVE
YIELD
238
R1-2(2S)

W12-1
REMOVE
241
W12-1D(2)
2' HEIGHT

WRONG WAY
ESTR

E AST W ES
33 33
REMOVE
E AST W ES
M3-2 M3-4
240
33 33
M1-6 M1-6
M6-1 M6-1
J3-2(2S)

WRONG WAY
R5-1A
REMOVE
WRONG WAY
253
254
R5-1A(3)

Port Washington
Saukville
REMOVE
Port Washington
Saukville
248
D1-2

247
W4-2R(2S)
W4-2R
REMOVE

IH-43 I-43/S.T.H. 57 B-45-0035

215 220 225

IH-43 I-43/S.T.H. 57 B-45-0034

DO NOT ENTER
R5-1
WRONG WAY
R5-1A
REMOVE

DO NOT ENTER
234
R5-1(3)
WRONG WAY
373
R5-1A(2S)
3' MOUNT HEIGHT

DO NOT ENTER
ESTR

ESTR

246
W5-52R(3)
4' HEIGHT
W5-52R
REMOVE

245
W5-52L(3)
4' HEIGHT
W5-52L
REMOVE

STOP
242
R1-1F(3)
ON SIGNAL POLE
STOP
R1-1F
REMOVE

SIS
ESTR

ONLY
252
267
R3-8(2S)
R3-8
REMOVE

SIS
ESTR

MILE 9 7
251
D10-2(5)
MILE 9 7
D10-2
REMOVE

39.55

SHEET 39A OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 95 E

FILE NAME : J:\projects\d2_12290543\Sign\023239a_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

EXIT 96
E5-1A
REMOVE

EXIT 96
250
E5-1A(5)

250A
W5-56
MOVE

250C
W5-56(2S)

ALTERNATE SOUTH 43
250B
JV-F
MOVE TO
SEPARATE
POST

W3-3
REMOVE

249
W3-3(2S)

EXIT 96
33
Saukville
Port Washington
EXIT ONLY
REMOVE

E1-5P EXIT 96
257A
33
Saukville
Port Washington
EXIT ONLY
257
E6-1
TYPE I SIGN
ON SIGN BRIDGE
INSTALL NEW I-BEAMS

EXIT
50
M.P.H.
ESTR
[2015]

THIS LANE ENDS
W9-62
REMOVE

THIS LANE ENDS
256
W9-62(5)
ON SIGN BRIDGE

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
REMOVE

258
R3-4B(5)

SIS
ESTR

SPEED LIMIT 70
ESTR
[2015]

EXIT 96
33
Saukville
Port Washington
EXIT ONLY
REMOVE

W4-2L
REMOVE

263
W4-2L(5)

E1-5P EXIT 96
262A
33
Saukville
Port Washington
EXIT ONLY
262
E6-51
TYPE I SIGN
ON SIGN BRIDGE

SEE SHEET 7A FOR
SIGNS IN THIS AREA

S-45-1

IH- 43 / STH 57 SB

I 43/S.T.H. 57

S-45-3

225 230 235 240 245 250

INTERSTATE 43 57 SOUTH
Milwaukee
Grafton
255
E6-51
TYPE I SIGN
ON SIGN BRIDGE
INSTALL NEW I-BEAMS

INTERSTATE 43 57 SOUTH
Milwaukee
Grafton
REMOVE

INTERSTATE 43 57 SOUTH
Milwaukee
Grafton
371
E6-51
TYPE I SIGN
ON SIGN BRIDGE
INSTALL NEW I-BEAMS

INTERSTATE 43 57 SOUTH
Milwaukee
Grafton
REMOVE

THIS LANE ENDS
261
W9-62(5)
ON SIGN BRIDGE

THIS LANE ENDS
W9-62
REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

SIS
ESTR

LEFT LANE ENDS
ESTR
[2016]

W5-52R
REMOVE

MILE 9 8
D10-2
REMOVE

265
W5-52R(3)
4' HEIGHT

266
MILE 9 8
D10-2(5)

264
W5-52L(3)
4' HEIGHT

W5-52L
REMOVE

155-56
ESTR

B-45-0037

STH-57 SB

STH-57 NB

IH-43 SB

IH-43

S.T.H. 57

I 43

270 265 260 255 275 280 285

SHEET 41 OF 64

97

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

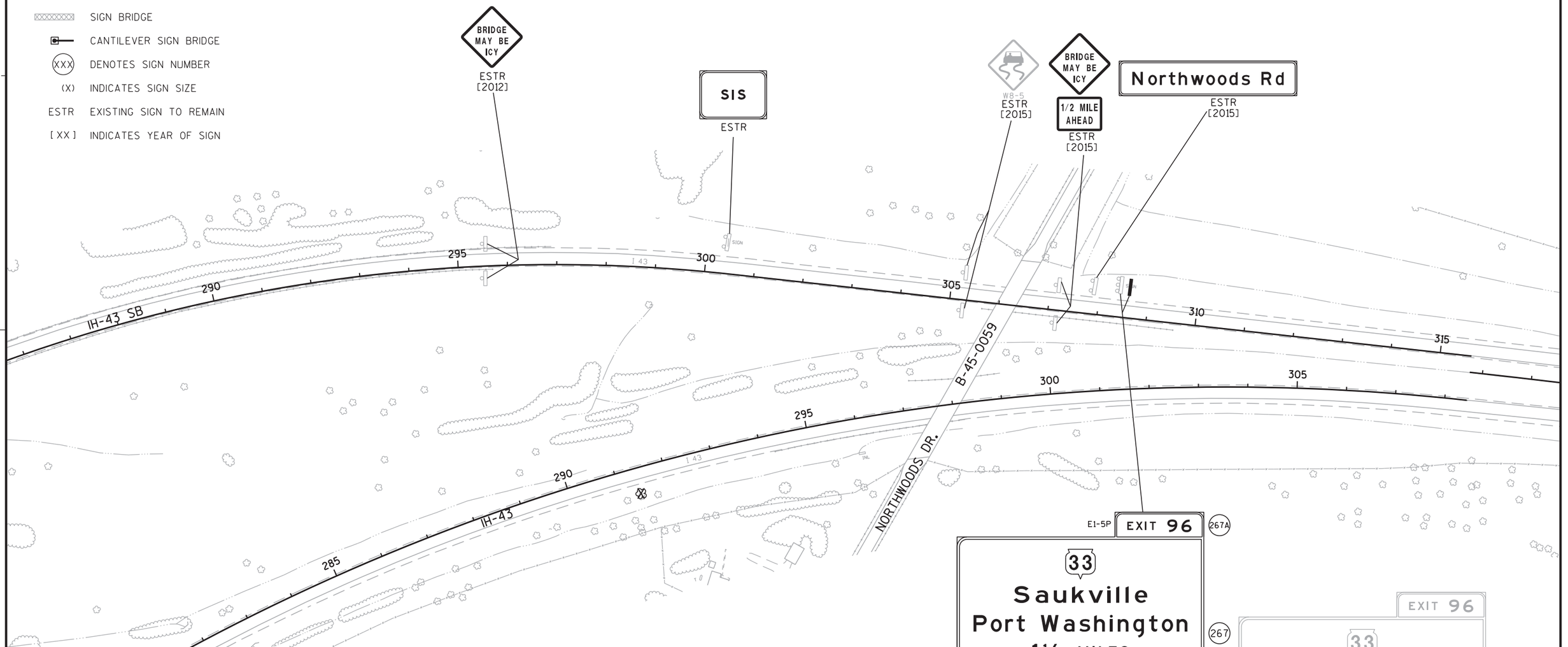
FILE NAME : J:\projects\d2_12290543\Sign\023241_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN



E1-5P EXIT 96 267A

33
Saukville
Port Washington
1½ MILES

267

E1-1A
TYPE I SIGN
ON EXISTING STEEL POSTS

EXIT 96
33
Saukville
Port Washington
1½ MILES

REMOVE

SHEET 42 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

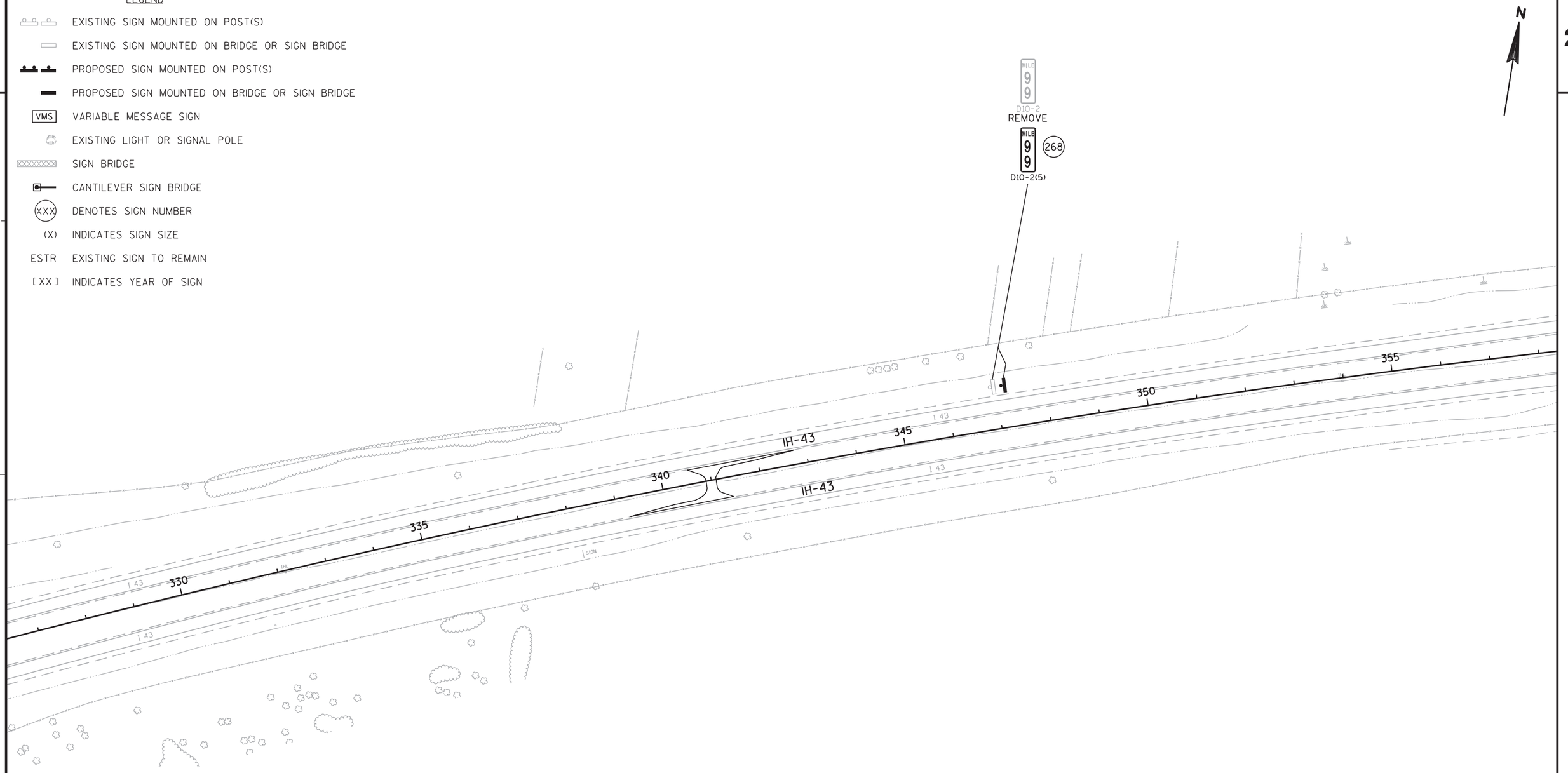
FILE NAME : J:\projects\d2_12290543\Sign\023242_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN



PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET

SHEET 43 OF 64

99

E

FILE NAME : J:\projects\d2_12290543\Sign\023243_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

N

W5-52R
REMOVE
270
W5-52R(3)
4' HEIGHT

Hwy KK
ESTR
[2015]

W5-52L
REMOVE
271
W5-52L(3)
4' HEIGHT

Hwy 33 2
Milwaukee 27
REMOVE

33 2
Milwaukee 27
269
D2-2
TYPE I SIGN
ON EXISTING STEEL POSTS

B-45-0041
B-45-0040
C.T.H. KK
CTH KK
IH-43
I 43
360
365
370
375
380
385
INL
SIGN

2

SHEET 44 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 100 E

FILE NAME : J:\projects\d2_12290543\Sign\023244_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

N

MILE 100
D10-3
REMOVE

MILE 100 (272)
D10-3(5)

Hwy B
ESTR
[2015]

RIDESHARE
INFO CALL
1-800-455-POOL
D12-2A

MINK RANCH RD.

MINK RANCH RD.

B-45-0042

CTH B

I 43

IH-43

390 395 400 405 410 415

INL.

SIGN

RIPRAP

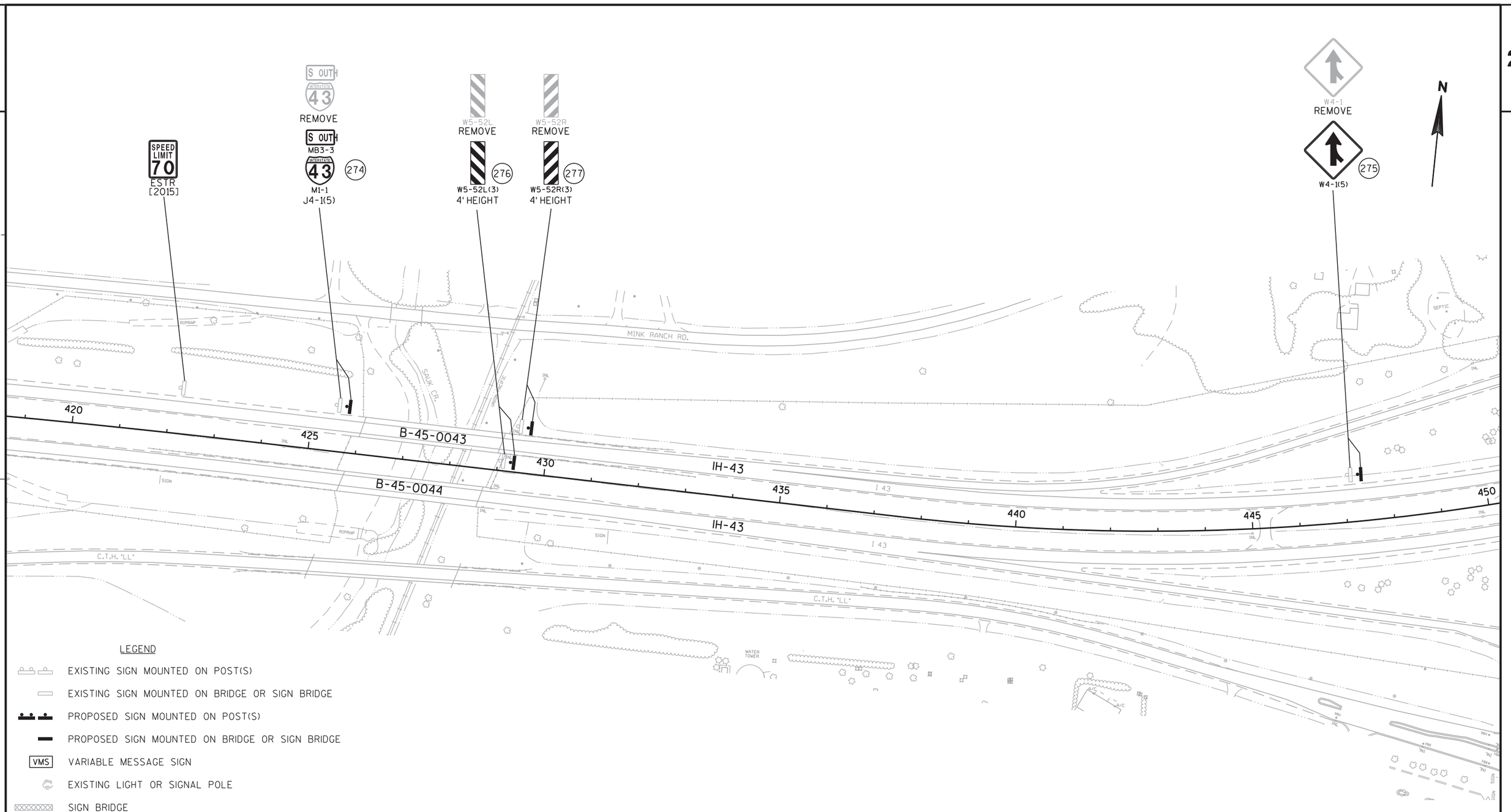
SEPTIC

SEPTIC

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023246_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

278 — R5-57(5) — PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED
R5-57 REMOVE

280 — R6-2L(2S) — ONE WAY
R6-2L REMOVE

281 — R5-1C(3) — DO NOT ENTER
R5-1C

281A — R5-1A(2S) — WRONG WAY
R5-1A 3' MOUNT HEIGHT

283 — R1-1(3) — STOP
R1-1 REMOVE

283A — R6-3(2M) — DIVIDED HIGHWAY
R6-3 REMOVE

285 — R1-1(3) — STOP
R1-1 REMOVE

286 — M6-1 / M1-6B / M1-5A / M6-1 — J3-2(2S)
M3-3 — S OUT
SOUTH 32 COUNTY H
REMOVE

287 — D12-2A(2S) — RIDESHARE INFO CALL 1-800-455-POOL
D12-2A REMOVE

288 — R5-1A(3) — WRONG WAY
R5-1A REMOVE

289 — R5-1A(3) — WRONG WAY

293 — D2-1 — Port Washington / Fredonia
REMOVE

295 — W3-1(2S)
REMOVE

297 — E4-1A — EXIT 100 — SOUTH 32 — WEST H — Fredonia — Port Washington
TYPE I SIGN ON EXISTING STEEL POSTS
E1-5P EXIT 100 297A

EXIT 50 M.P.H. — W13-2 ESTR

EXIT 100 — SOUTH 32 — WEST H — Fredonia — Port Washington
REMOVE

282 — R6-2L(2S) — ONE WAY
REMOVE

369 — R5-1(3) — DO NOT ENTER
370 — R5-1A(2S) — WRONG WAY
3' MOUNT HEIGHT
R5-1(3) DO NOT ENTER
R5-1A WRONG WAY
REMOVE

290 — D10-3(5) — MILE 101
D10-3 REMOVE

279 — R3-1(2S)
R3-1 REMOVE

291 — R1-1(3) — STOP
R1-1 REMOVE

292 — M1-93 — LAKE MICHIGAN CIRCLE TOUR — MK6-1
REMOVE

SIS — ESTR

294 — D4-2L(2S) — PARK & RIDE
D4-2L REMOVE

296 — E5-1A(5) — EXIT 100
296B — W5-56(2S)
296C — W5-56(2S)
296A — ALTERNATE SOUTH INTERSTATE 43 — MOVE TO SEPERATE POST JV-F

E5-1A REMOVE

445 450 455 460 465 470 475
B-45-0045
IH-43
I 43/S.T.H. 32
S.T.H. 32 / C.T.H. H
C.T.H. H
SEPTIC

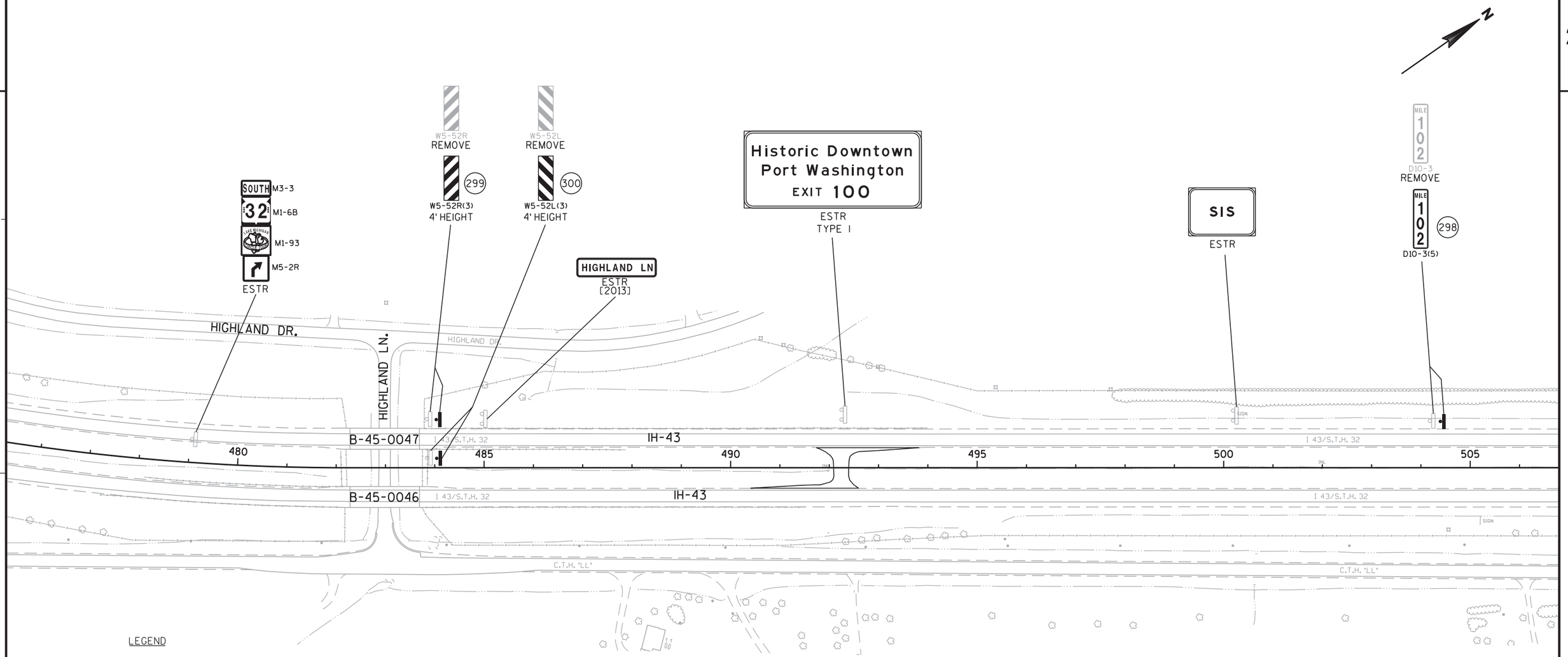
SHEET 47 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 103 E

FILE NAME : J:\projects\d2_12290543\Sign\023247_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

EXIT 100
SOUTH WEST
32 H
Fredonia
Port Washington
1 MILE

REMOVE

N

PARK & RIDE
EXIT 100

REMOVE

SIS

ESTR

PARK & RIDE
EXIT 100
302

D4-4
TYPE I SIGN
ON EXISTING STEEL POSTS

E1-5P EXIT 100 301A

SOUTH WEST
32 H
Fredonia
Port Washington
1 MILE
301

E1-1A
TYPE I SIGN
ON EXISTING STEEL POSTS

IH-43 I 43/S.T.H. 32

510 515 520 525 530 535

IH-43 I 43/S.T.H. 32

C.T.H. "LL"

C.T.H. "LL"

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

2

Port Washington
NEXT 2 EXITS

ESTR
TYPE I

MILE 103
D10-3
REMOVE

MILE 103 (303)
D10-3(5)

I 43/S.T.H. 32

540 545 550 555 560 565

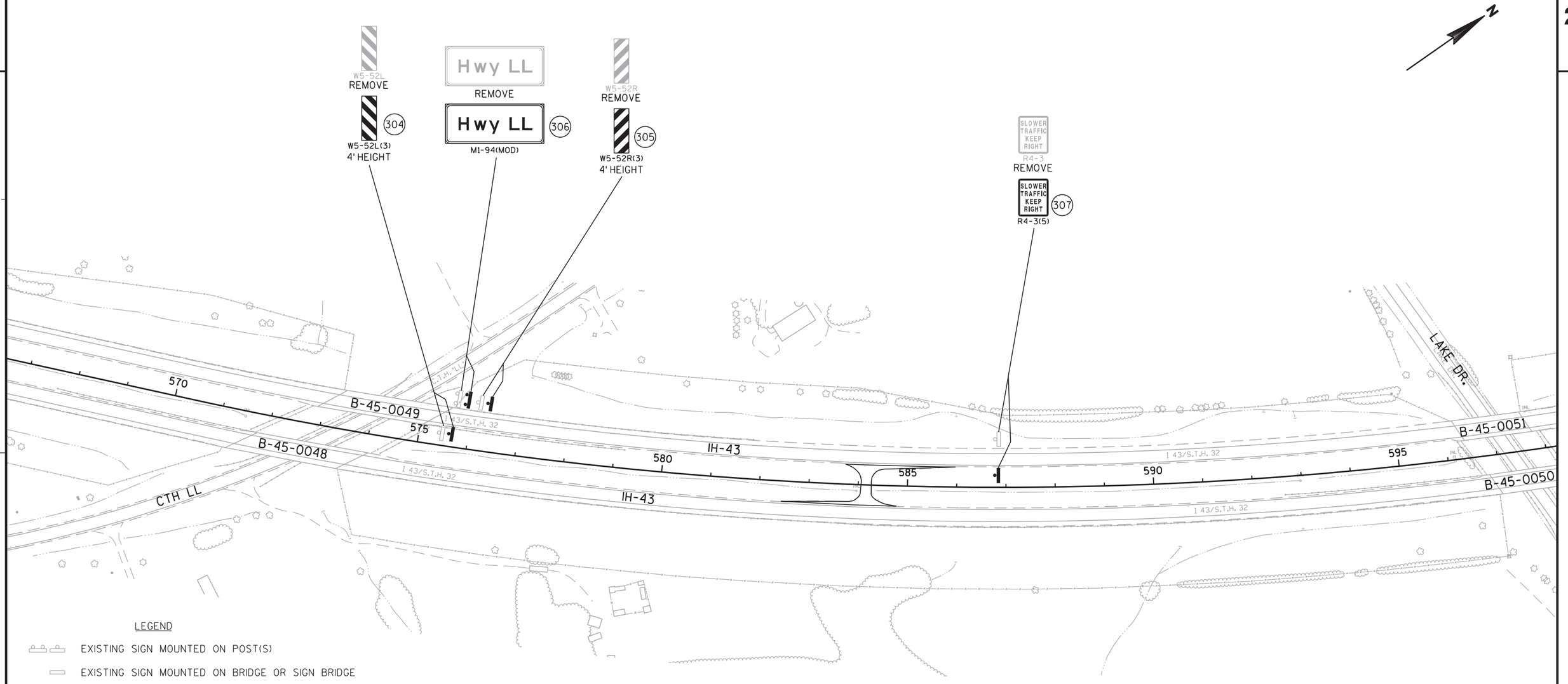
IH-43

FOOTBRIDGE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

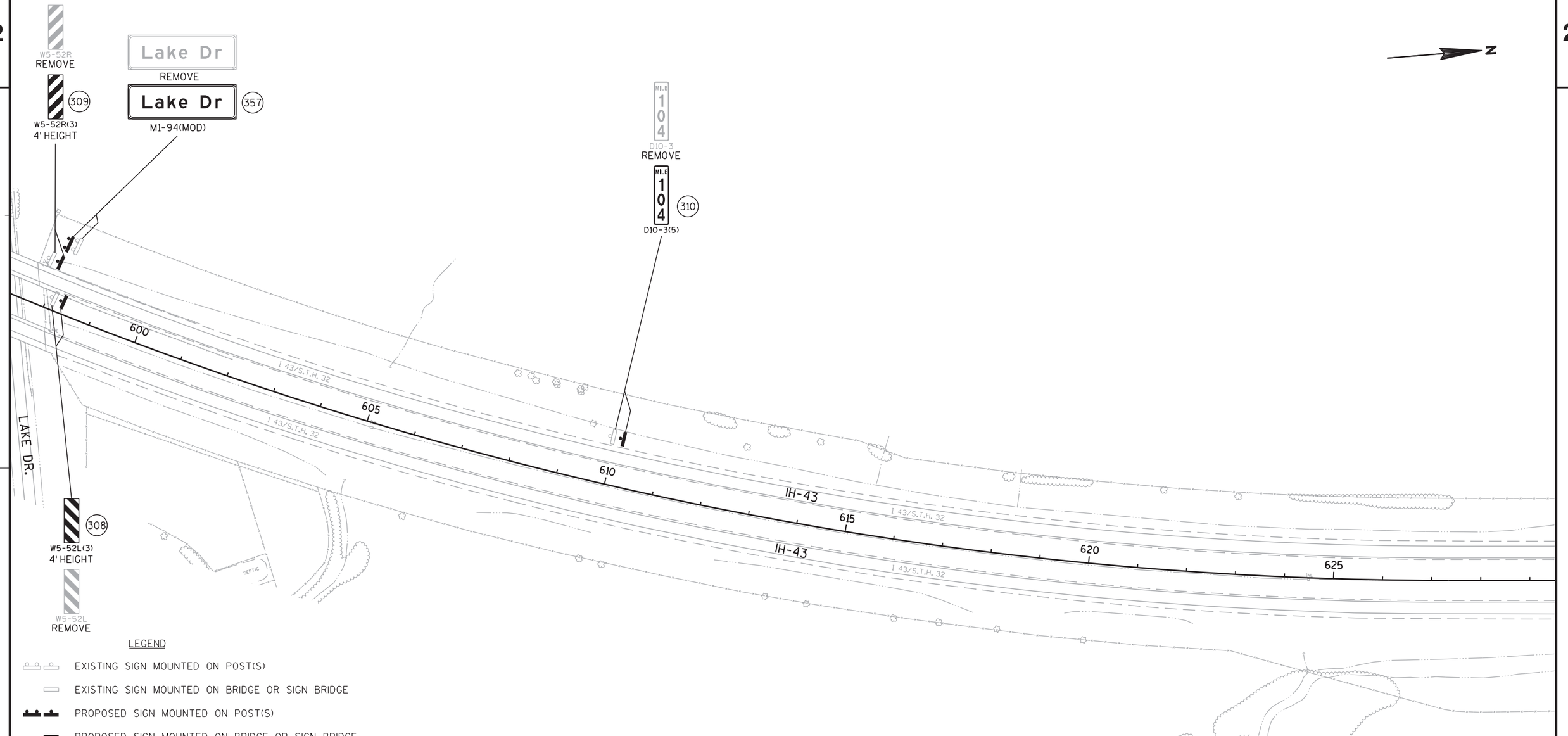
2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

N

Hwy P
REMOVE

Hwy P 358
M1-94(MOD)

B-45-0064

I 43/S.T.H. 32

IH-43

630 635 640 645 650 655

B-45-0052

C.T.H. "P"

1

I 43/S.T.H. 32

IH-43

I 43/S.T.H. 32

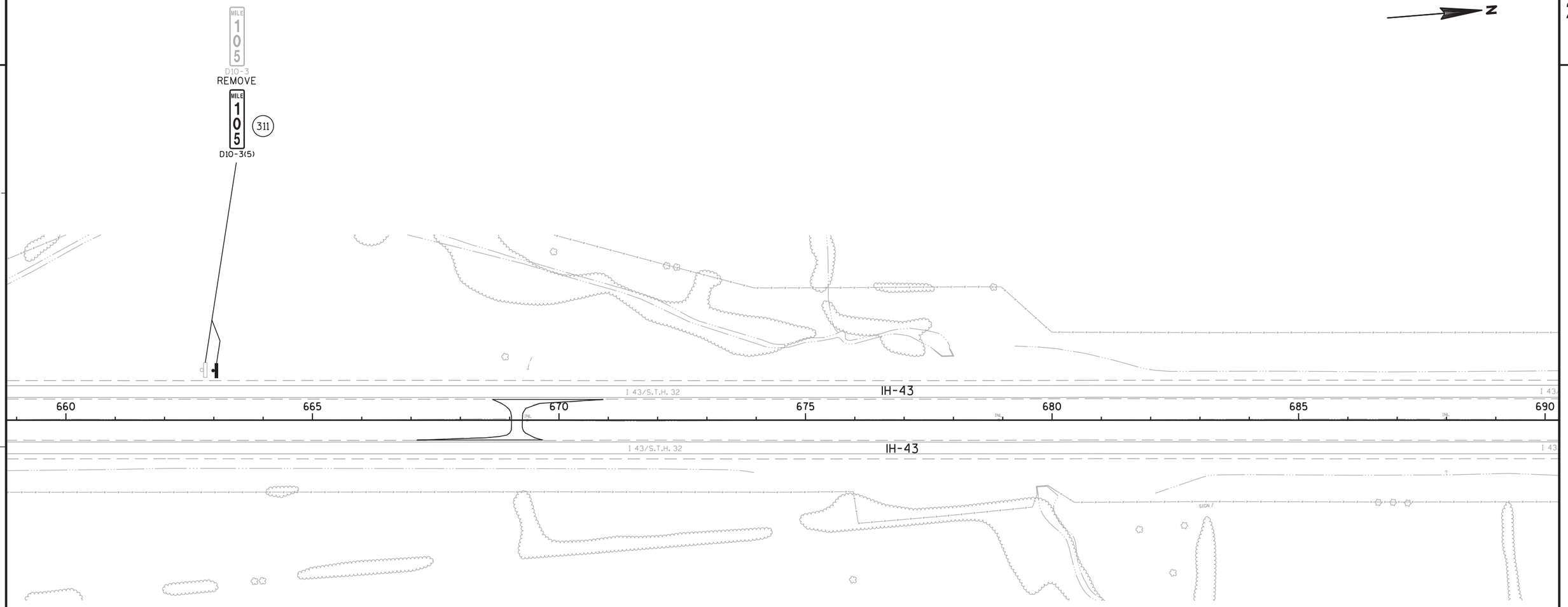
B-45-0064

C.T.H. P

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

N

Sandy Beach Rd

REMOVE

(312) Hwy A

M1-94(MOD)

(313) Sandy Beach Rd

M1-94(MOD)

MILE 106

D10-3

REMOVE

MILE 106

(314)

D10-3(5)

CTH A

B-45-0053

SANDY BEACH ROAD

IH-43

I 43/S.T.H. 32

690 695 700 705 710 715 720

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

N

EMERGENCY STOPPING ONLY
R8-7
REMOVE

EMERGENCY STOPPING ONLY
R8-7(5)
315

720 725 730 735 740 745 750

I 43/S.T.H. 32

IH-43

SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

Cedar Beach Rd
REMOVE

Cedar Beach Rd 359
M1-94(MOD)

Port Washington 8
Milwaukee 35
REMOVE

Port Washington 8
Milwaukee 35 316
E8-1
TYPE I SIGN
ON EXISTING STEEL POSTS

MILE 107
D10-3
REMOVE

MILE 107 317
D10-3(5)

SPEED LIMIT 70
ESTR
[2015]

N

B-45-0054 CEDAR BEACH RD.

PT 753+91.94

IH-43 I 43/S.T.H. 32

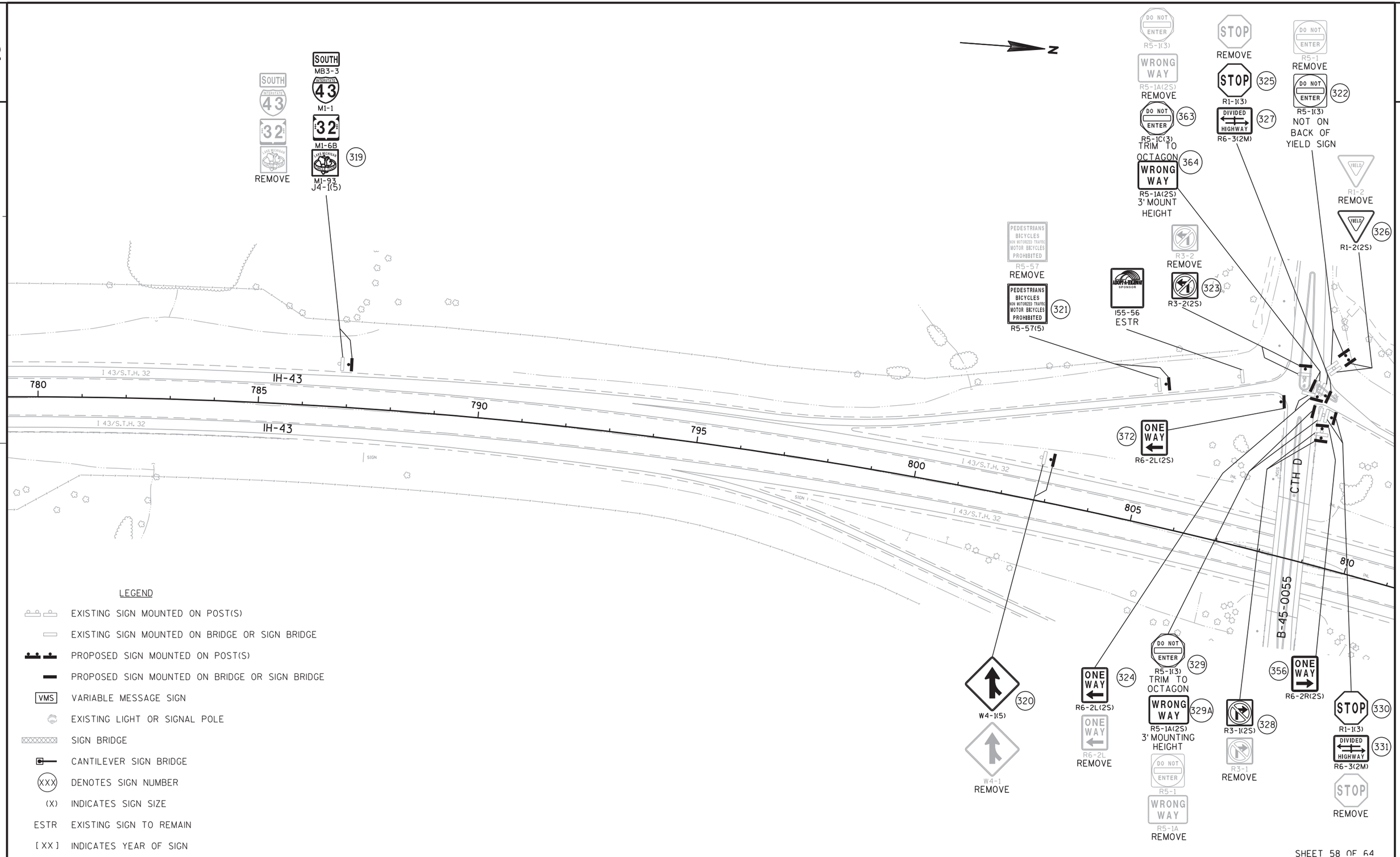
750 755 760 765 770 775 780

SIGN

PC 779+54.91

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN



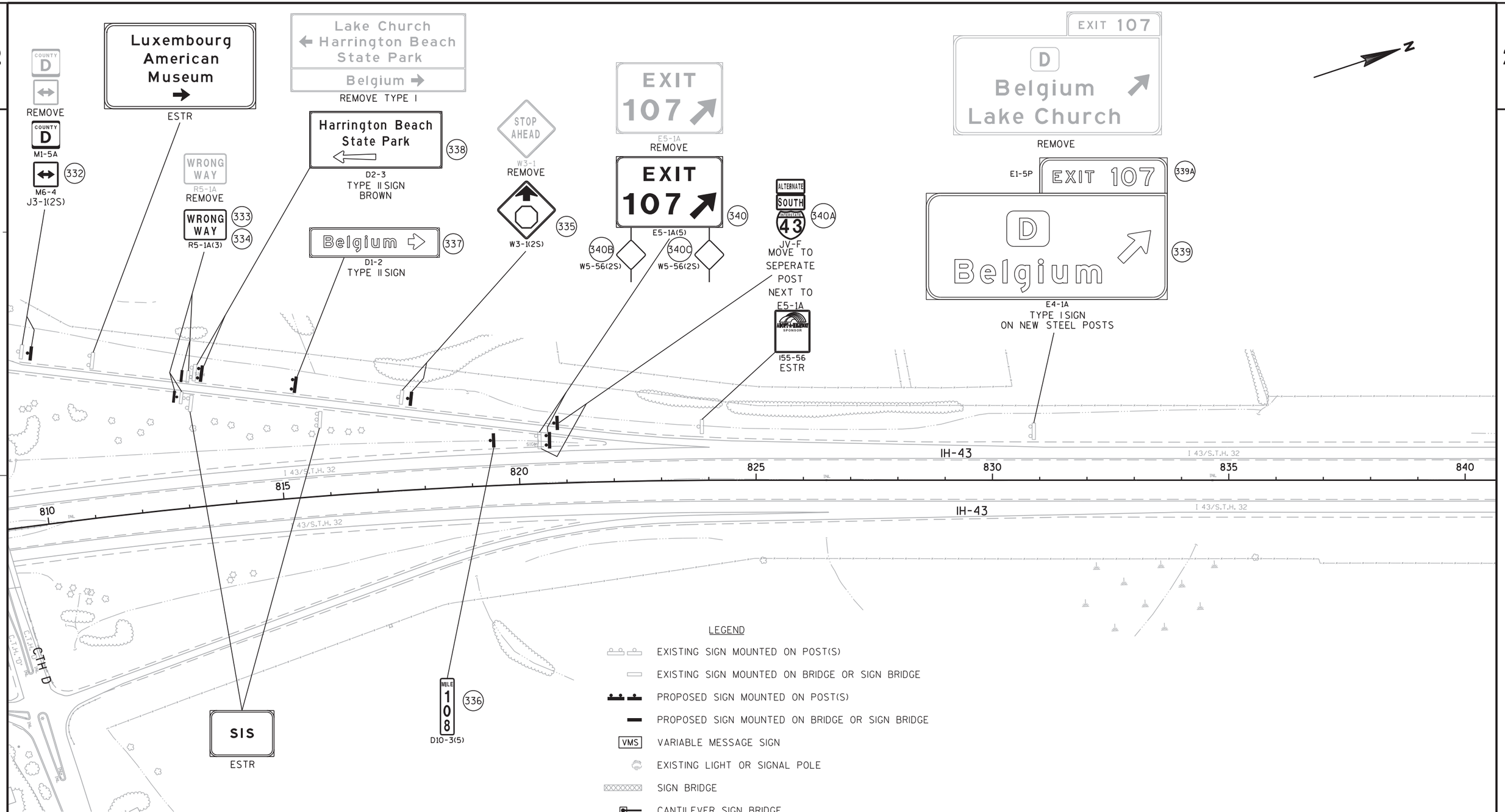
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

SHEET 58 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET E

FILE NAME : J:\projects\d2_12290543\Sign\023258_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1



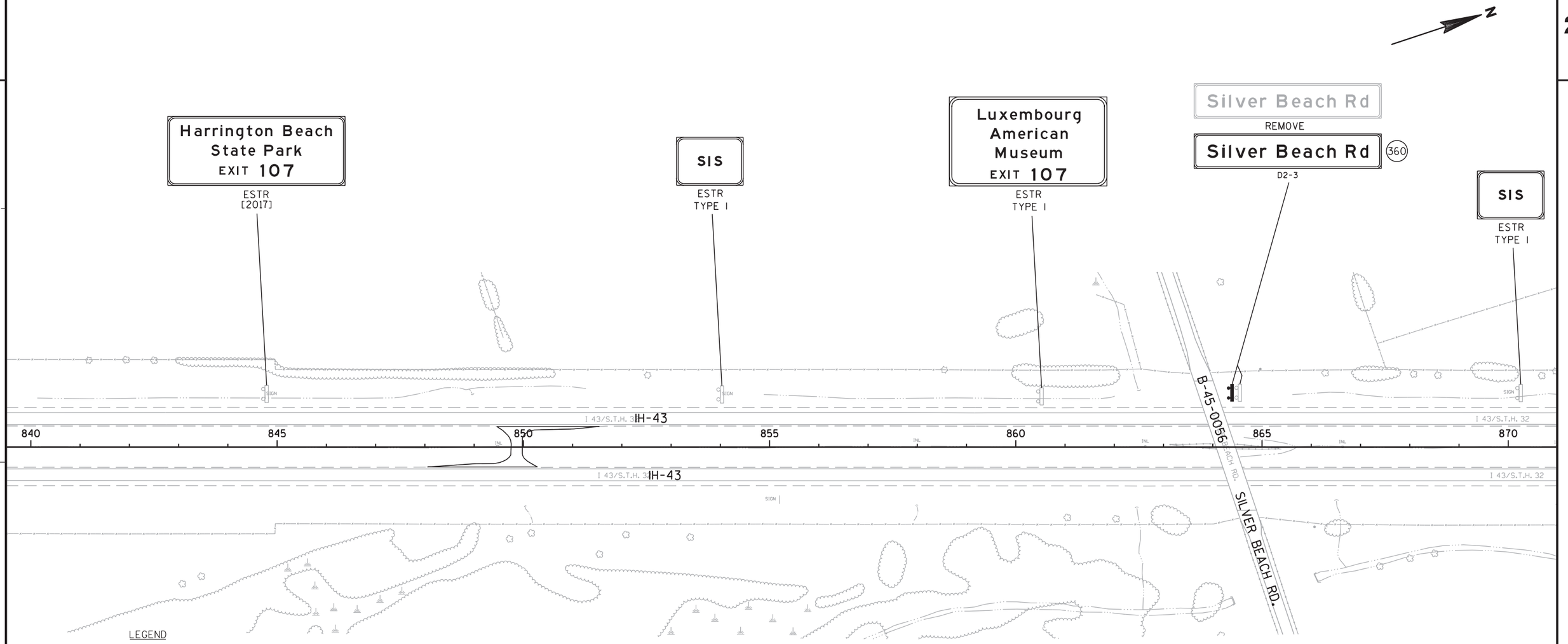
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

SHEET 59 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 115 E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

D10-3
REMOVE

342

D10-3(5)

E1-5P



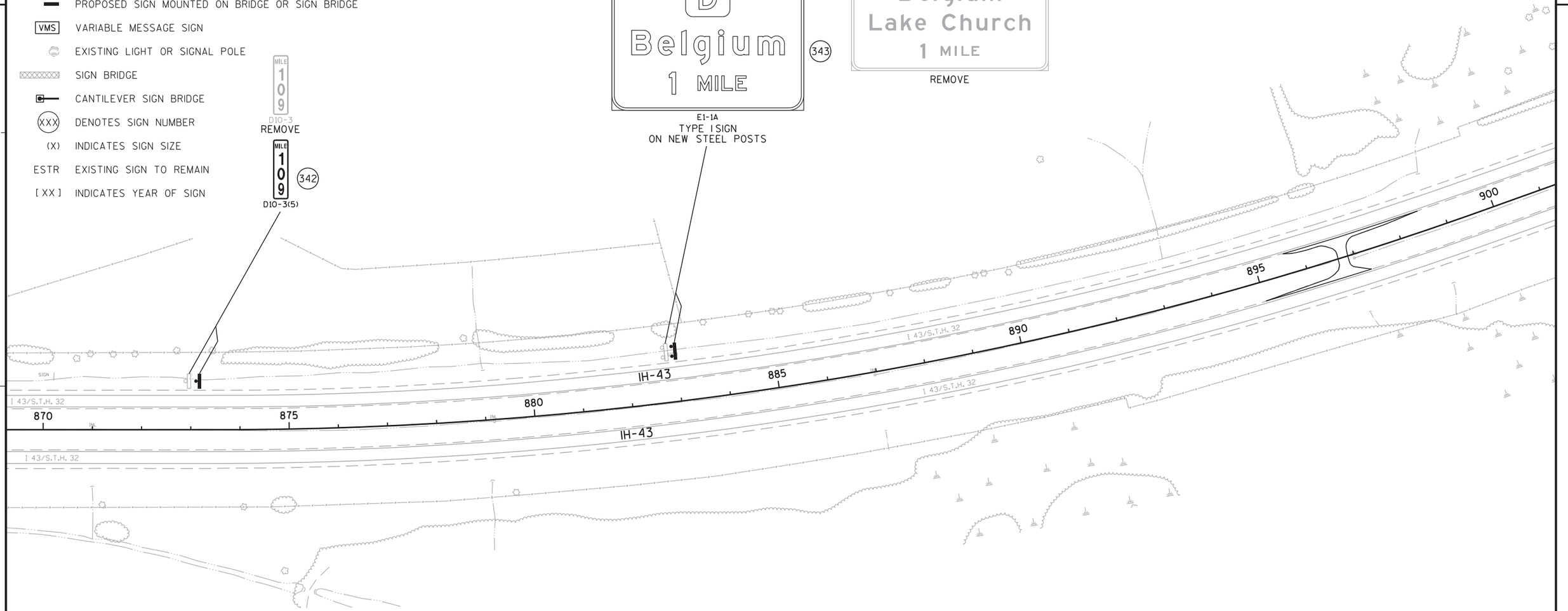
343A

343

E1-1A
TYPE I SIGN
ON NEW STEEL POSTS



REMOVE



2

SHEET 61 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 117 E

FILE NAME : J:\projects\d2_12290543\Sign\023261_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XX] INDICATES YEAR OF SIGN

W5-52R
REMOVE

345
W5-52R(3)
4' HEIGHT

Jay Rd
REMOVE

Jay Rd 361
M1-94(MOD)

MILE 110
D10-3
REMOVE

MILE 110 346
D10-3(5)

344
W5-52L(3)
4' HEIGHT

W5-52L
REMOVE

B-45-0057
B-45-0058
IH-43
I 43/S.T.H. 32
JAY RD.
905
910
915
920
925
930
WALLS

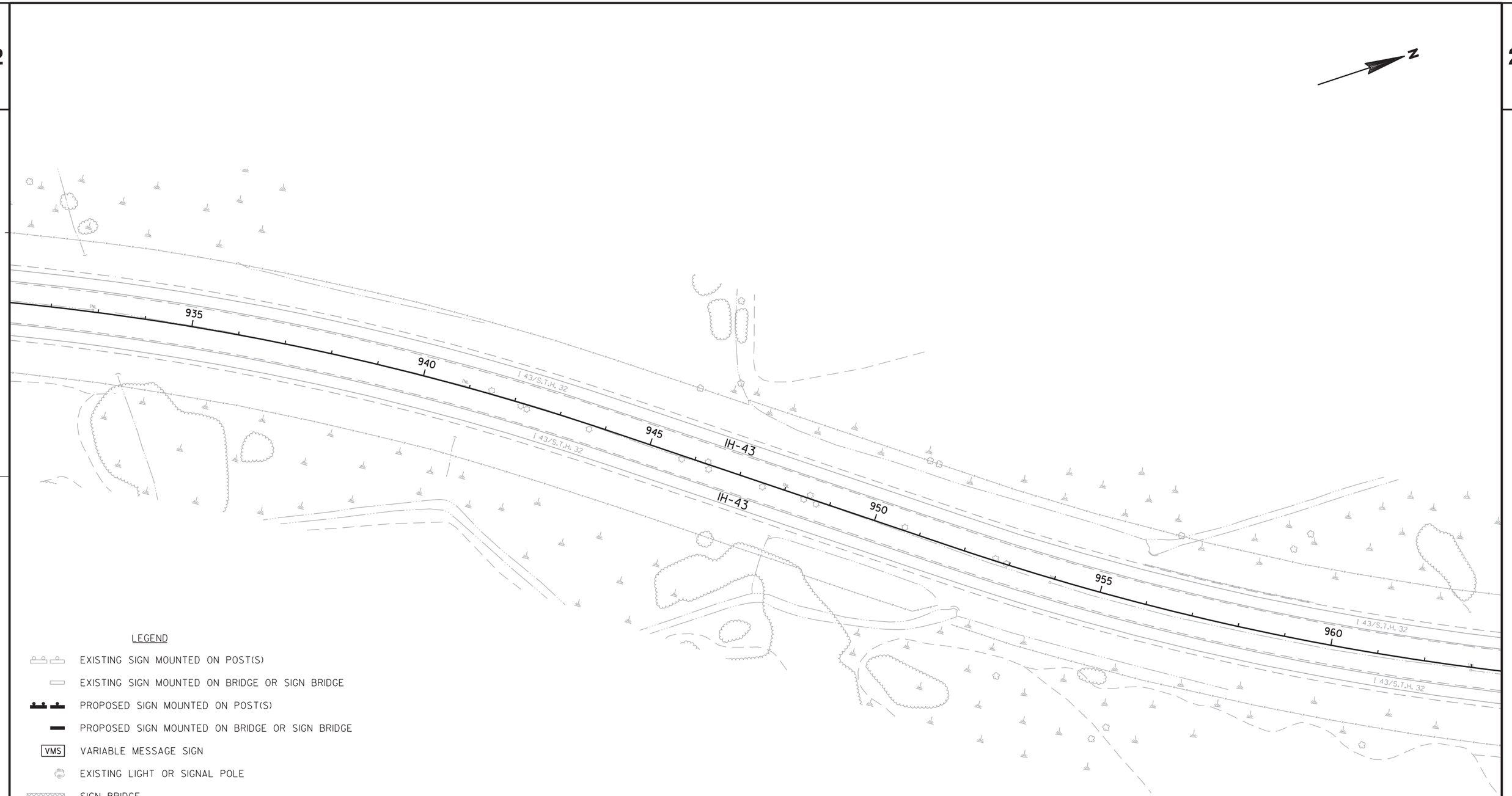
SHEET 62 OF 64

PROJECT NO: 1229-05-70	HWY: IH-43 SB	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 118 E

FILE NAME : J:\projects\d2_12290543\Sign\023262_ps.dgn PLOT DATE : 13-MAR-2018 10:45 PLOT BY : dotklm PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2

Pebble Beach Rd
REMOVE
362 Pebble Beach Rd
M1-94(MOD)

Ozaukee Co
REMOVE
348 Ozaukee Co
I2-2(5)

SHEBOYGAN COUNTY
OZAUKEE COUNTY

W5-52R
REMOVE

349
W5-52R(3)
4' HEIGHT

END PROJECT
STA. 977+29.01

I 43/S.T.H. 32

965 970 975 980 985 990

IH-43

B-45-0060

B-45-0061

PEBBLE BEACH RD.

MILE 1 1 1
350
D10-3(5)

MILE 1 1 1
D10-3
REMOVE

351
W5-52L(3)
4' HEIGHT

W5-52L
REMOVE

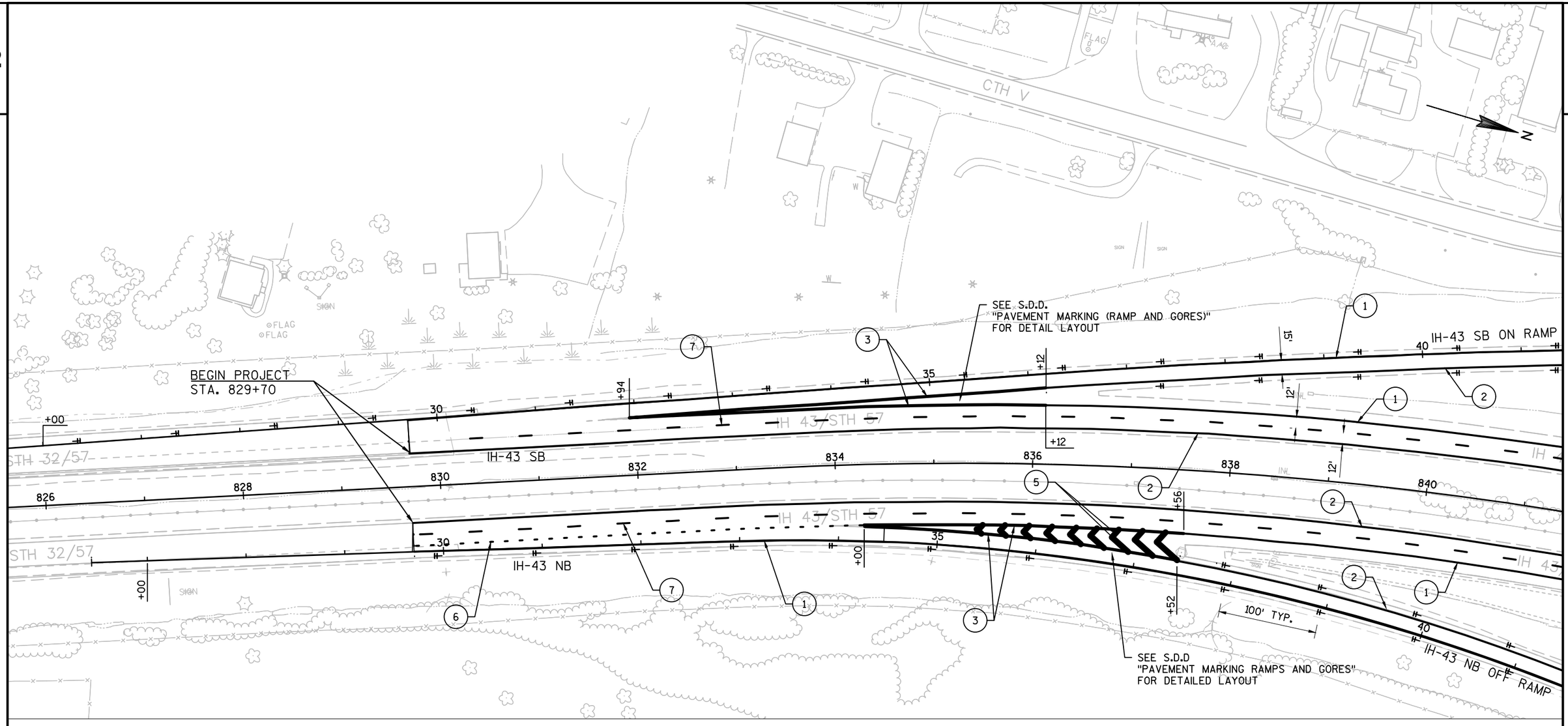
SLOWER TRAFFIC KEEP RIGHT
347
R4-3(5)

SLOWER TRAFFIC KEEP RIGHT
R4-3
REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN

2



PAVEMENT MARKING LEGEND

(1) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

(2) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)

(3) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)

(5) MARKING CHEVRON EPOXY 24-INCH (WHITE)

(6) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)

(7) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)

(8) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)

(9) MARKING STOP LINE EPOXY 18-INCH (WHITE)

(10) MARKING WORD EPOXY

(11) MARKING ARROW EPOXY

(12) MARKING AERIAL ENFORCEMENT BAR EPOXY

⊣⊢ DOUBLE DELINEATORS FLEXIBLE (RAMPS)

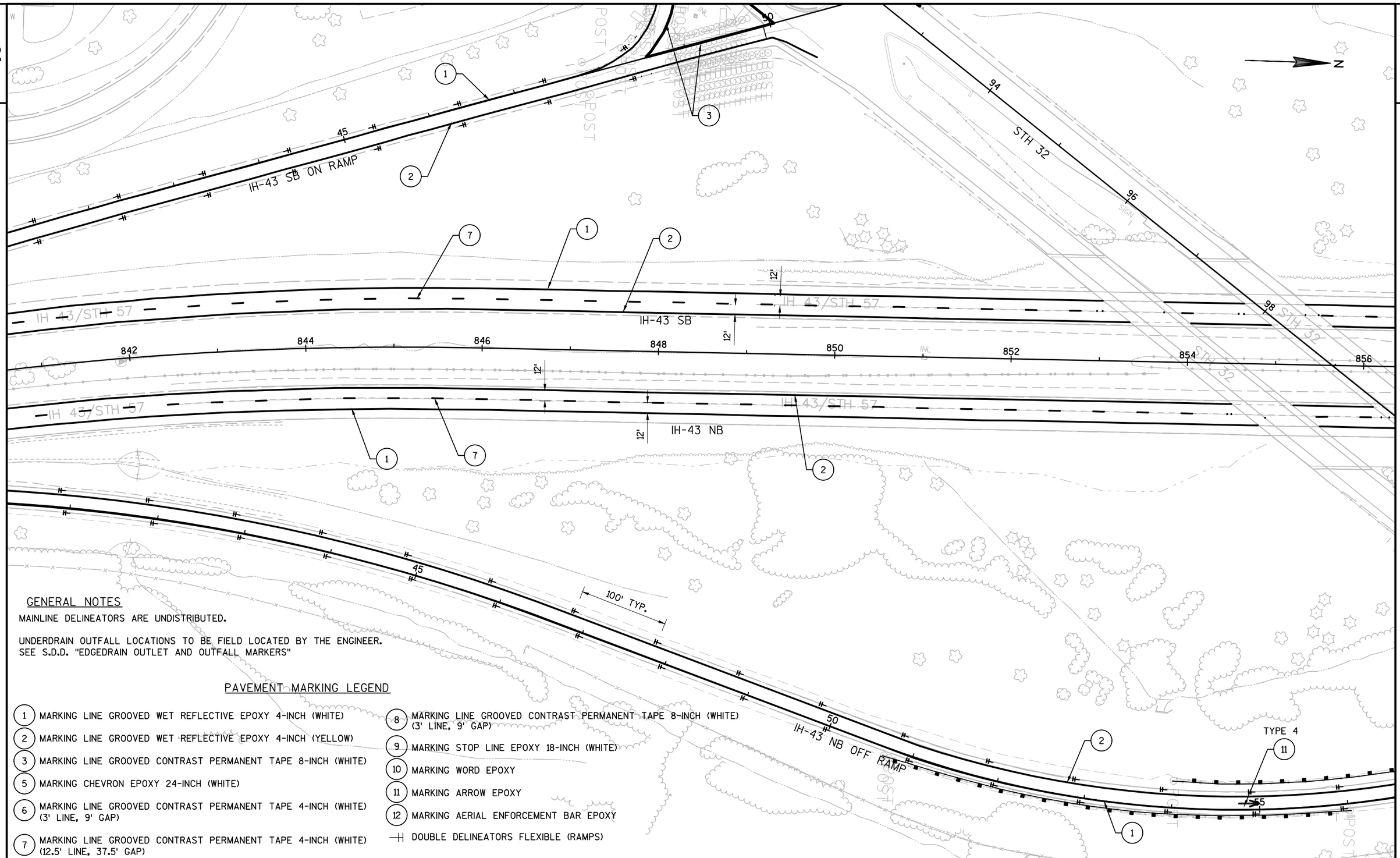
GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 121	E

2



GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

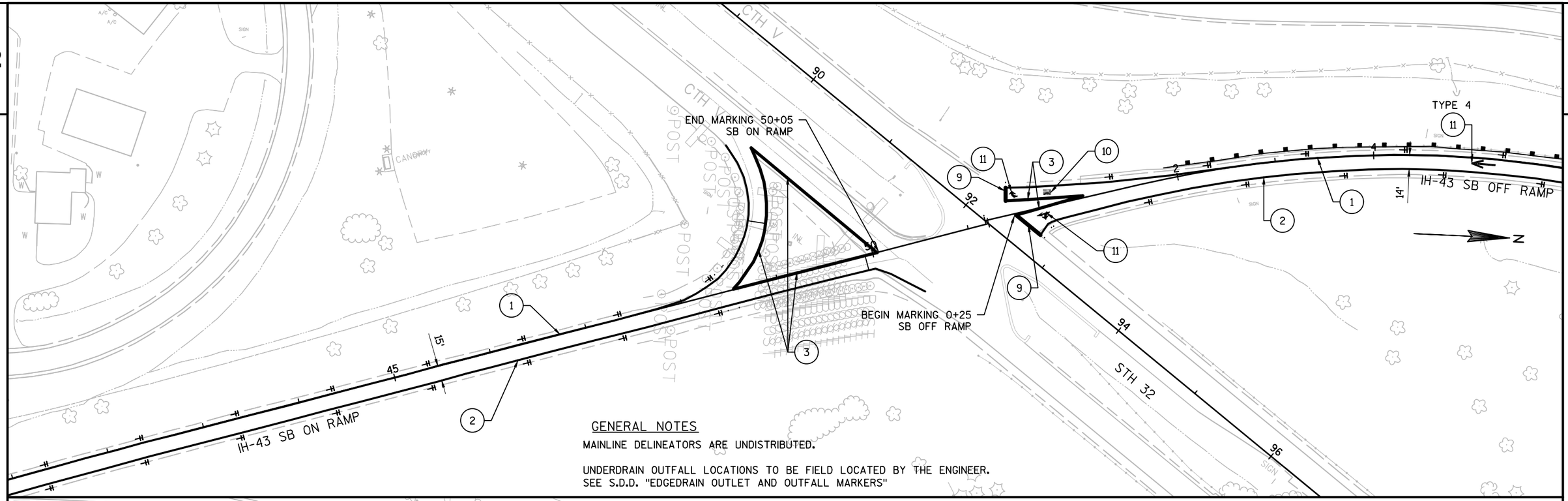
PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024502_PM

PLOT DATE : 1/30/2018 11:31 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2



GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

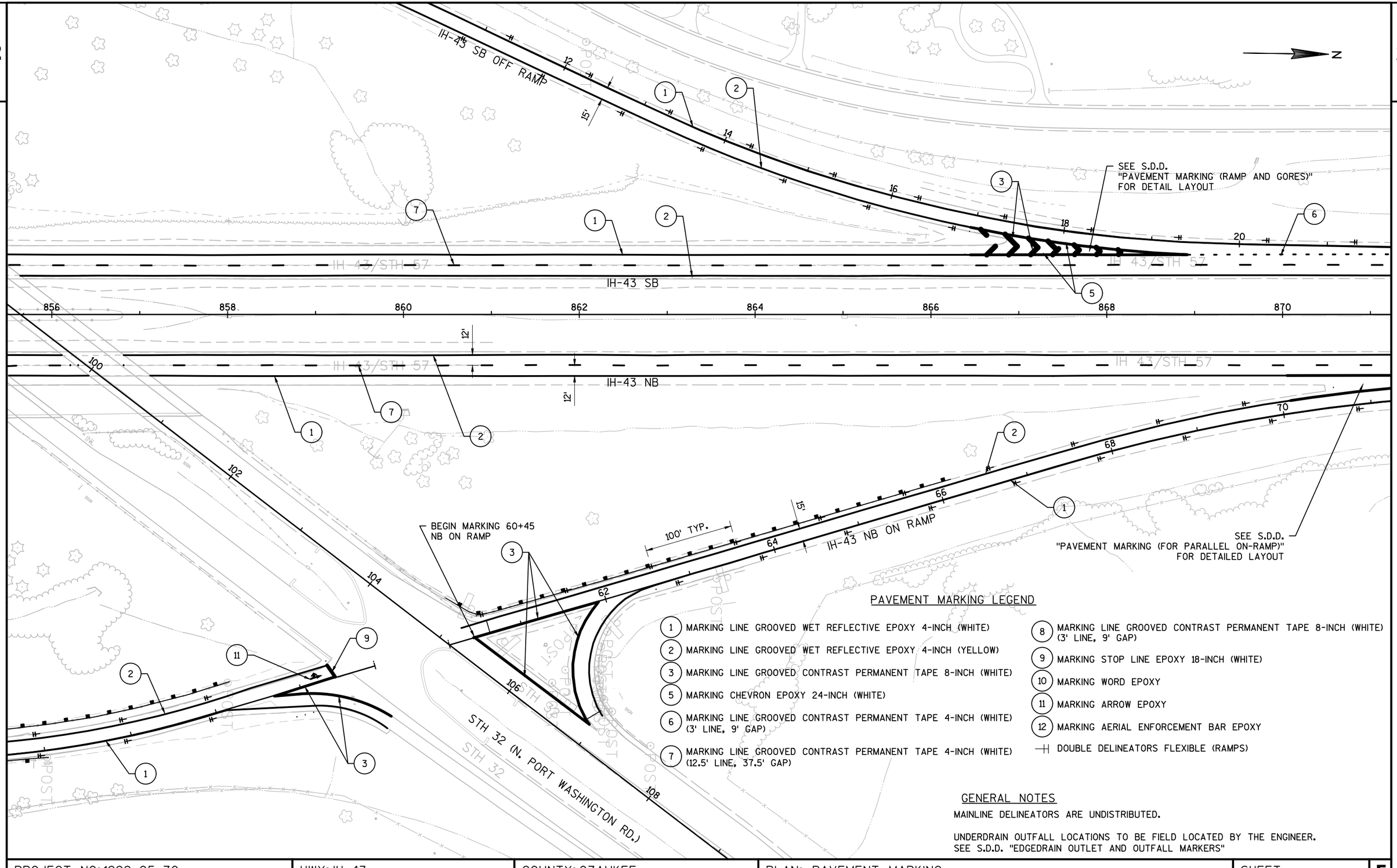
PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 123	E

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

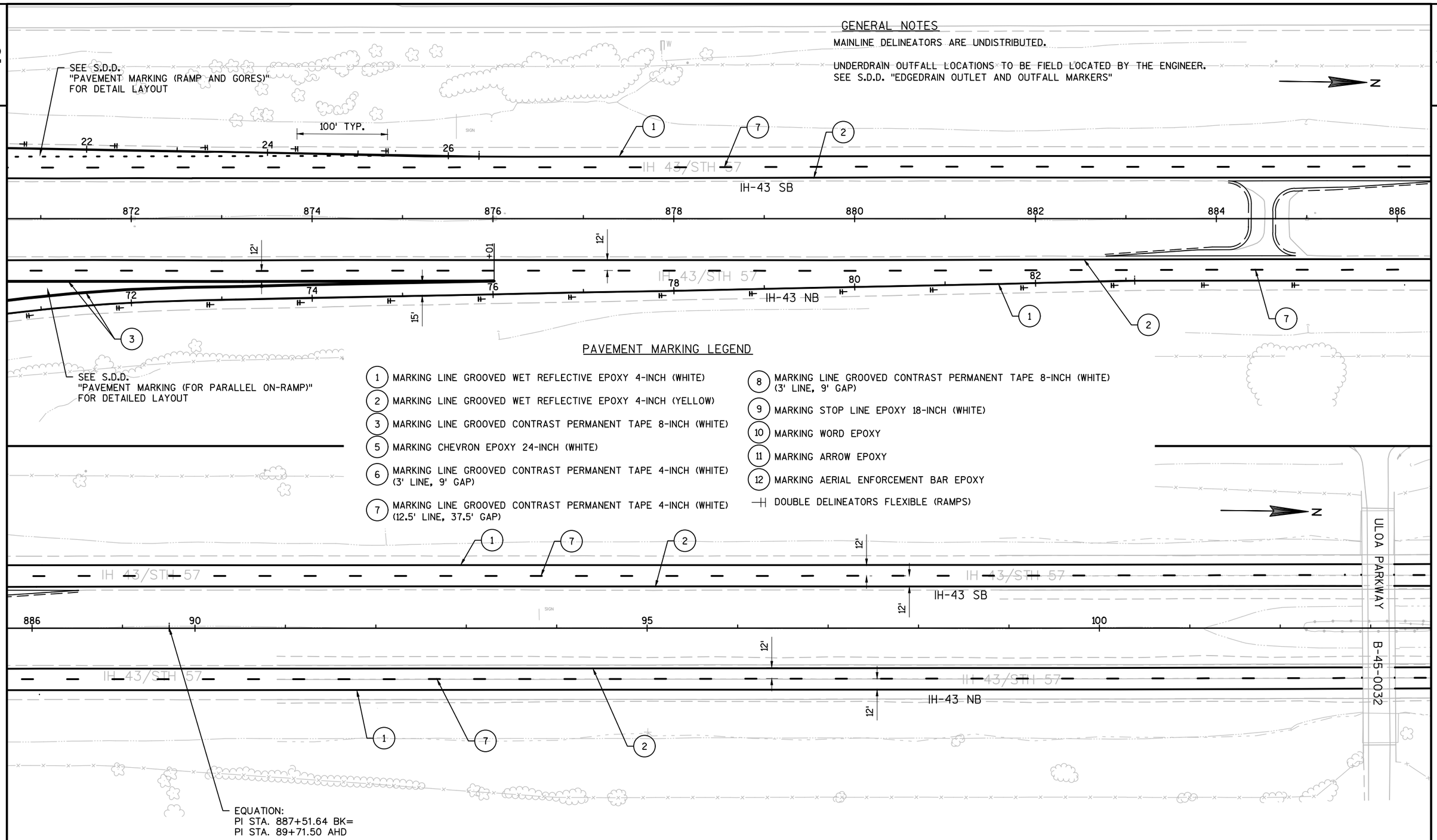
UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 124	E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

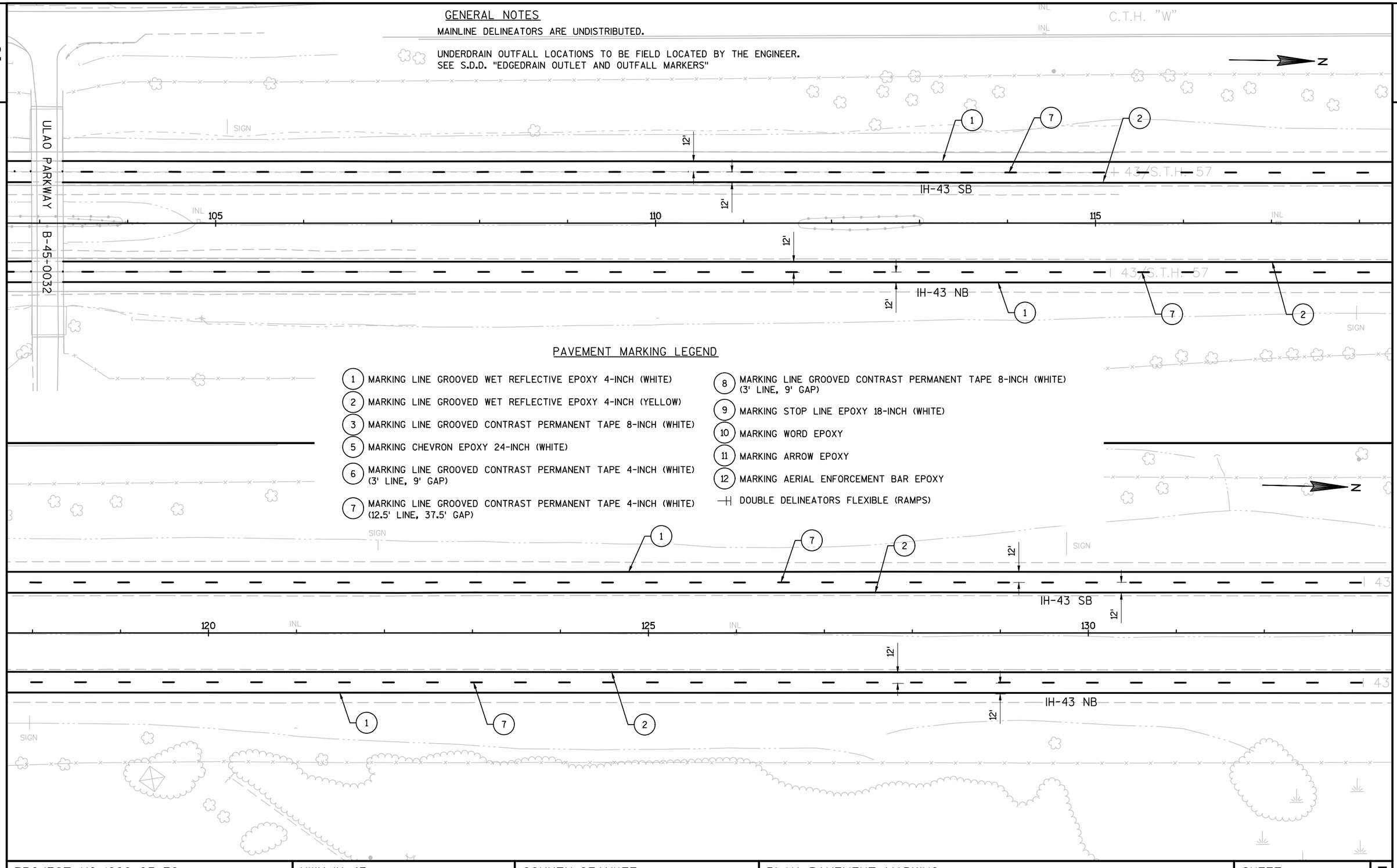
⊣⊢ DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 125	E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 126	E

PAVEMENT MARKING LEGEND

(1) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

(2) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)

(3) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)

(5) MARKING CHEVRON EPOXY 24-INCH (WHITE)

(6) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)

(7) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)

(8) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)

(9) MARKING STOP LINE EPOXY 18-INCH (WHITE)

(10) MARKING WORD EPOXY

(11) MARKING ARROW EPOXY

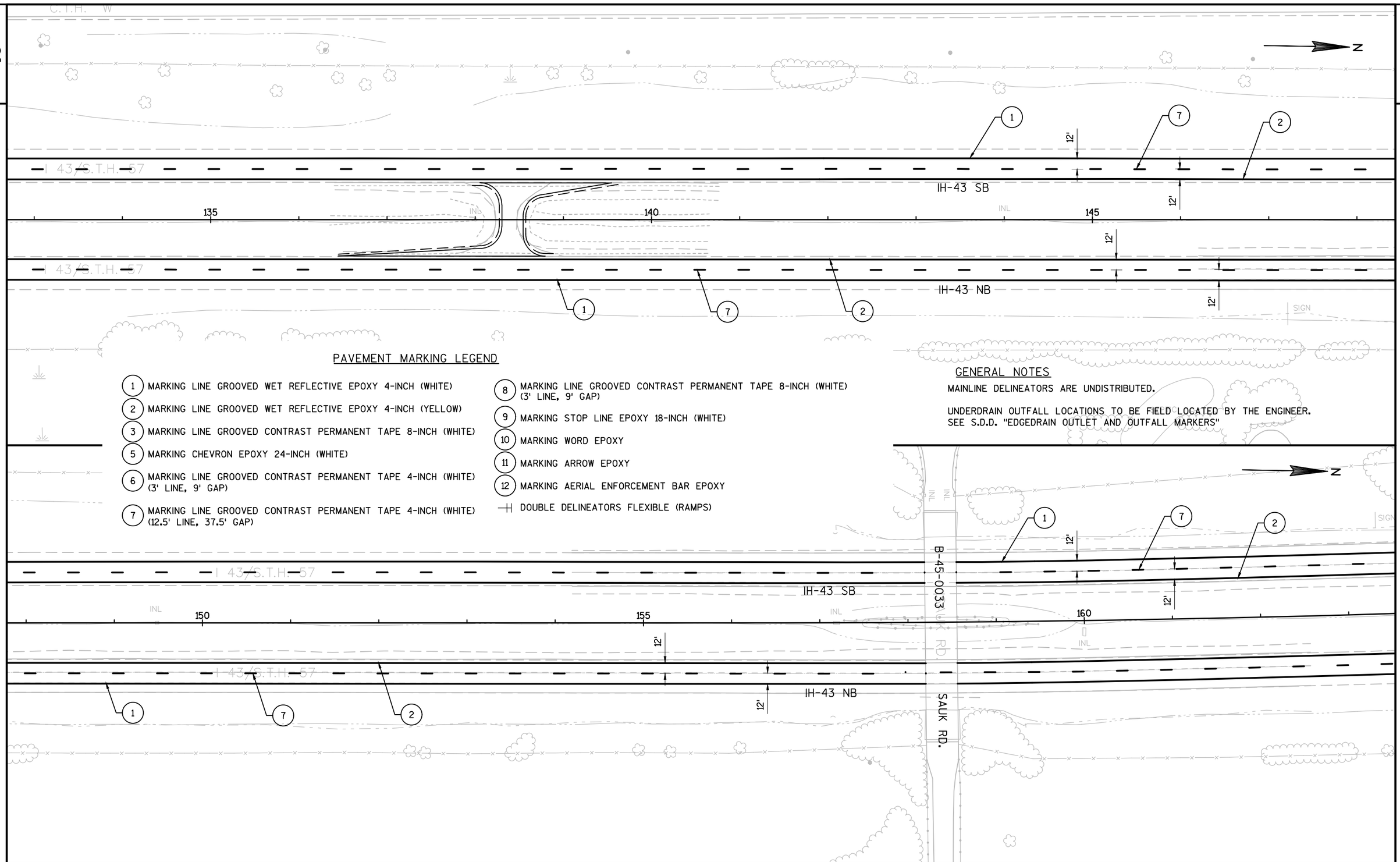
(12) MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

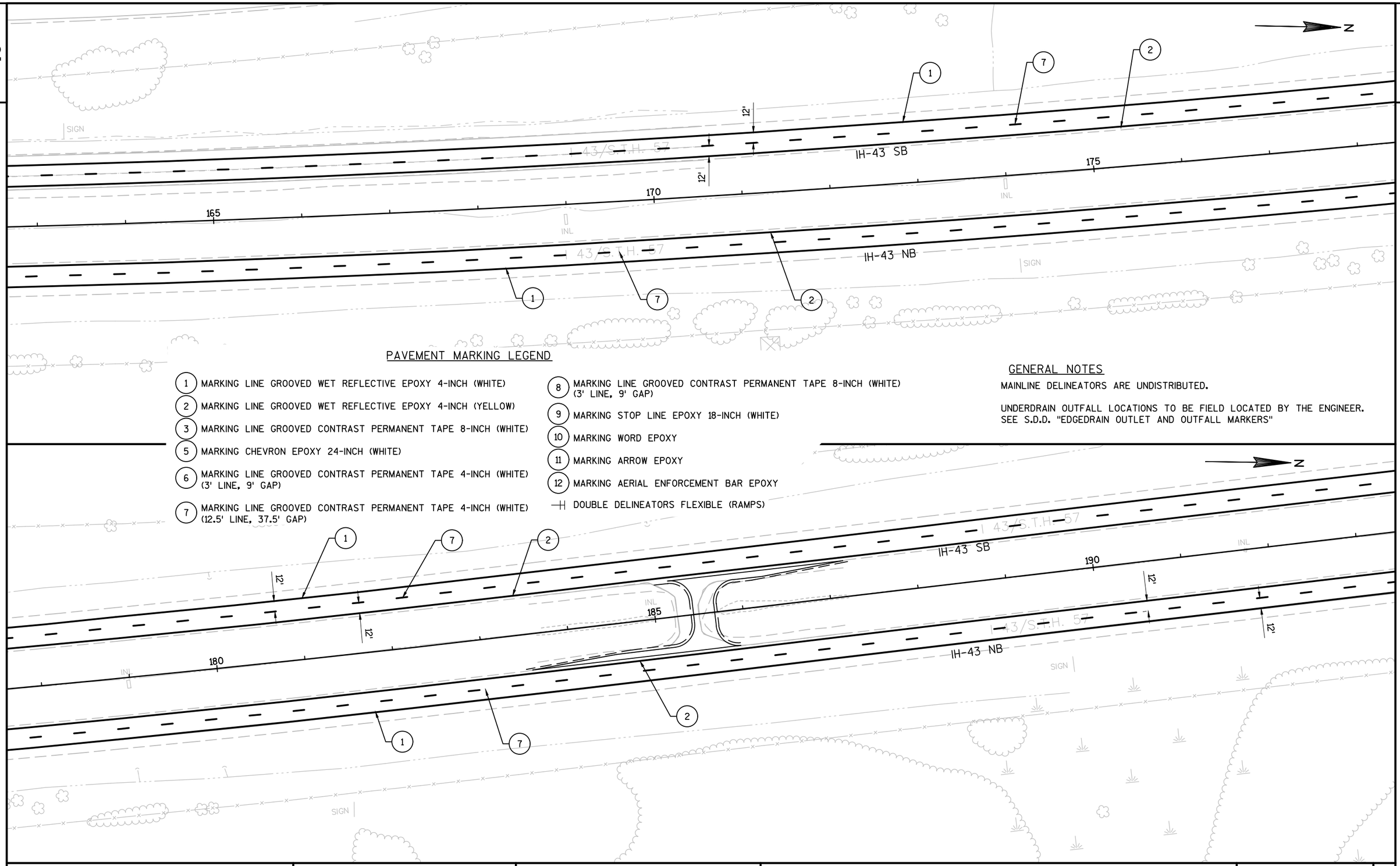
GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 127	E



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

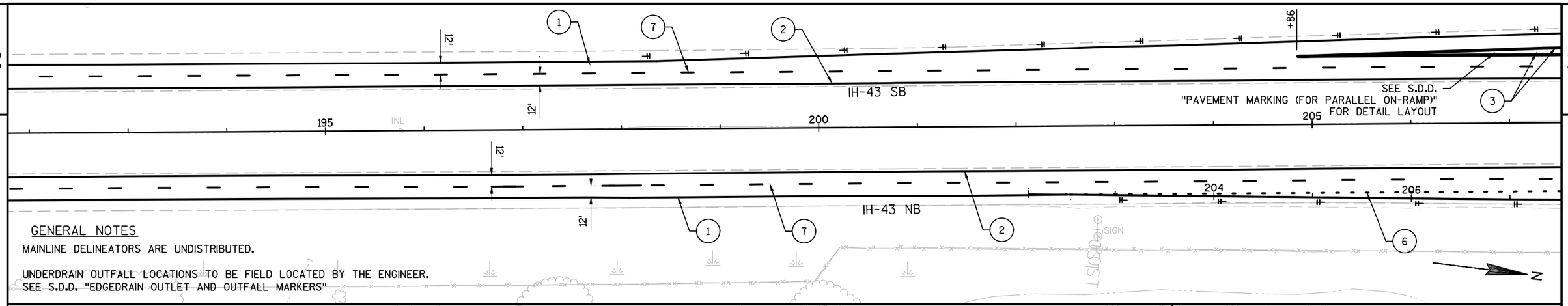
DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 128	E



GENERAL NOTES

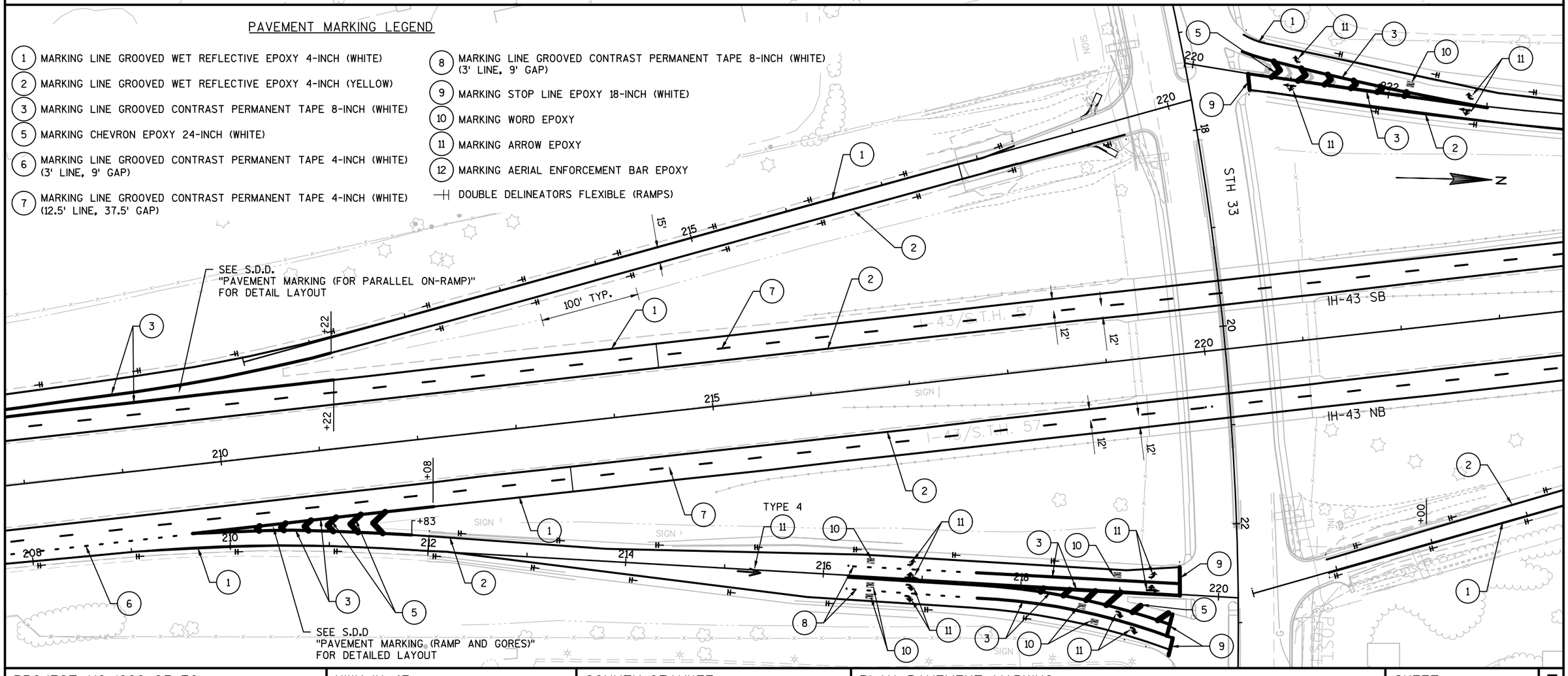
MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PAVEMENT MARKING LEGEND

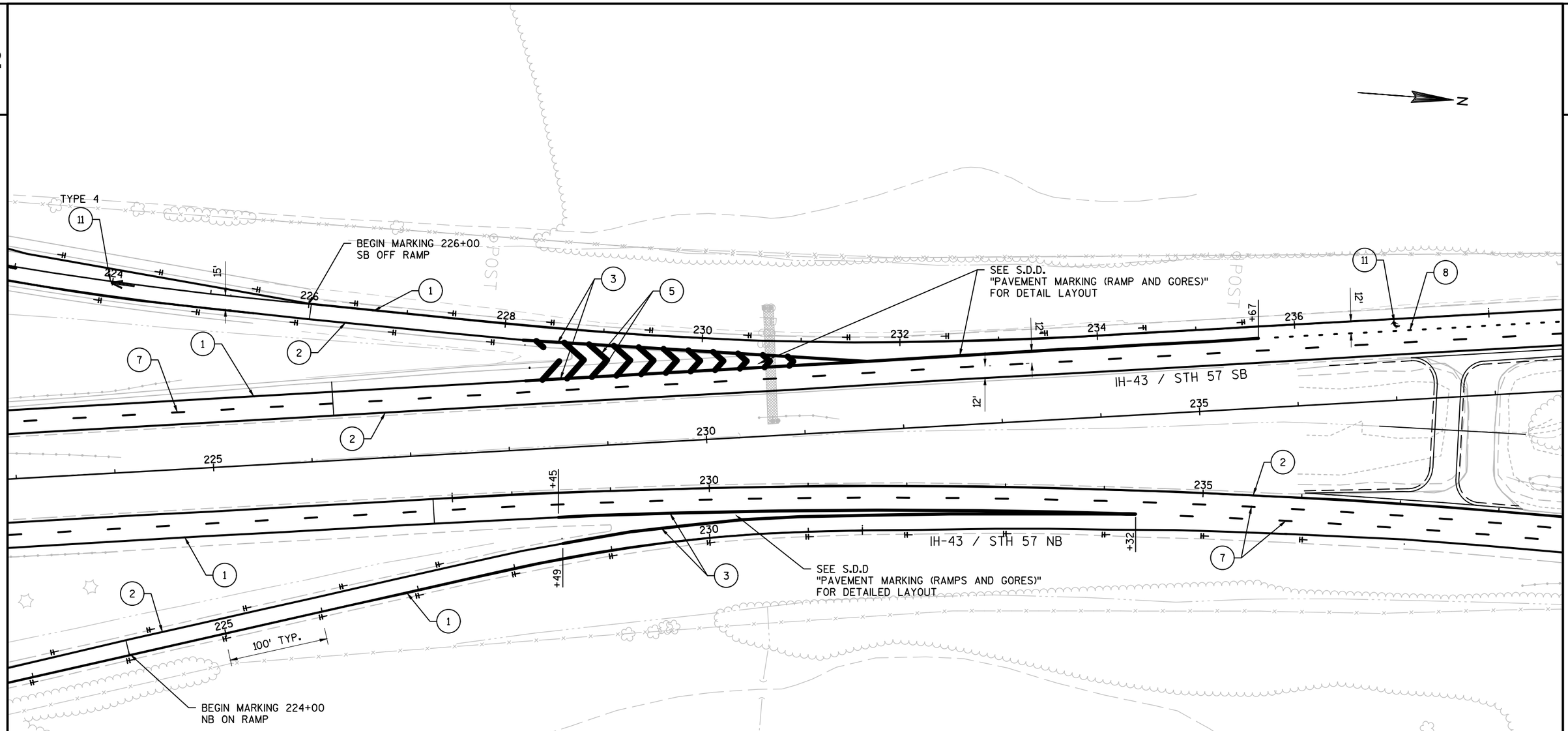
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

⊣⊢ DOUBLE DELINEATORS FLEXIBLE (RAMPS)



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 129	E

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

⊣⊢ DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 130	E

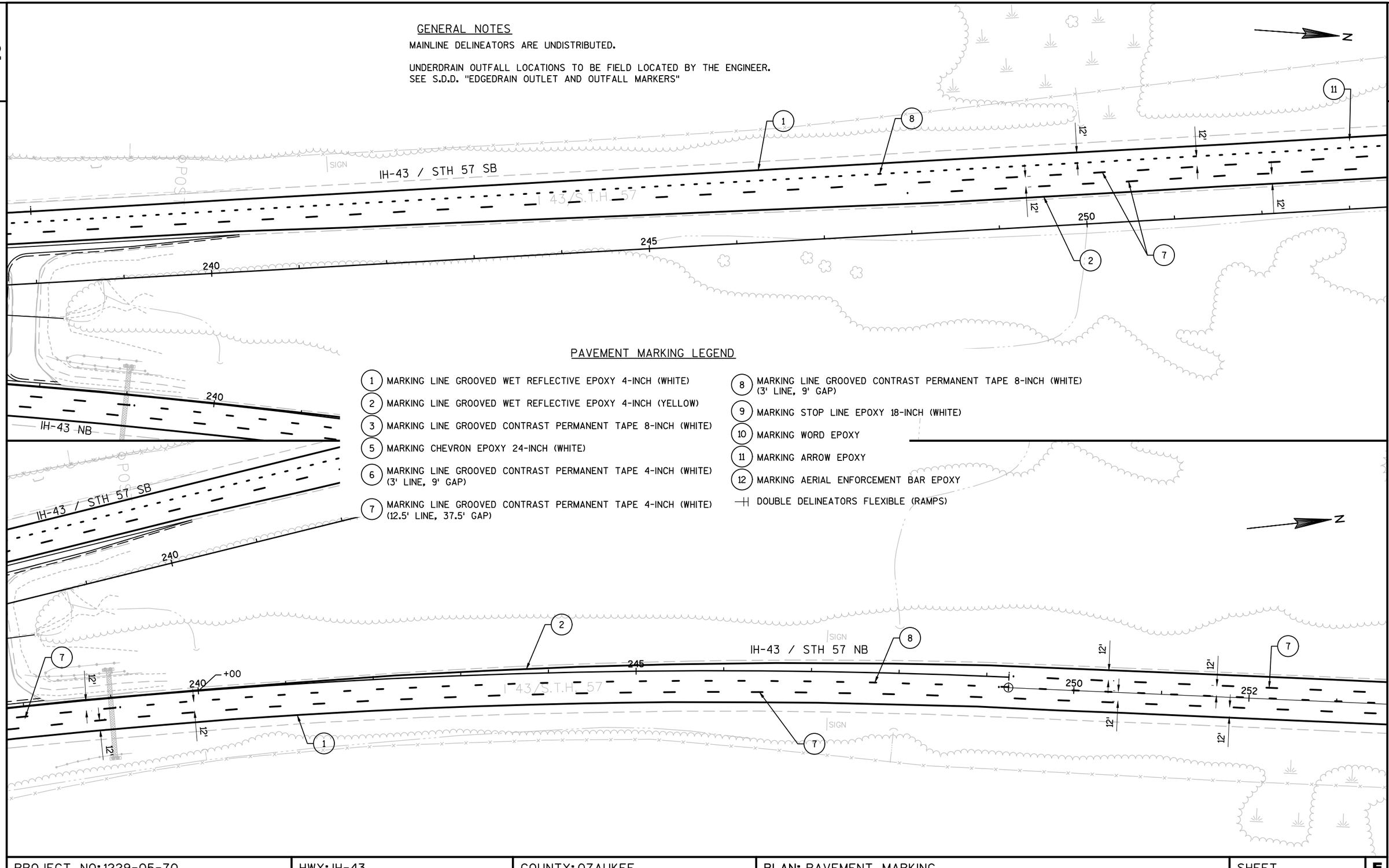
2

2

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

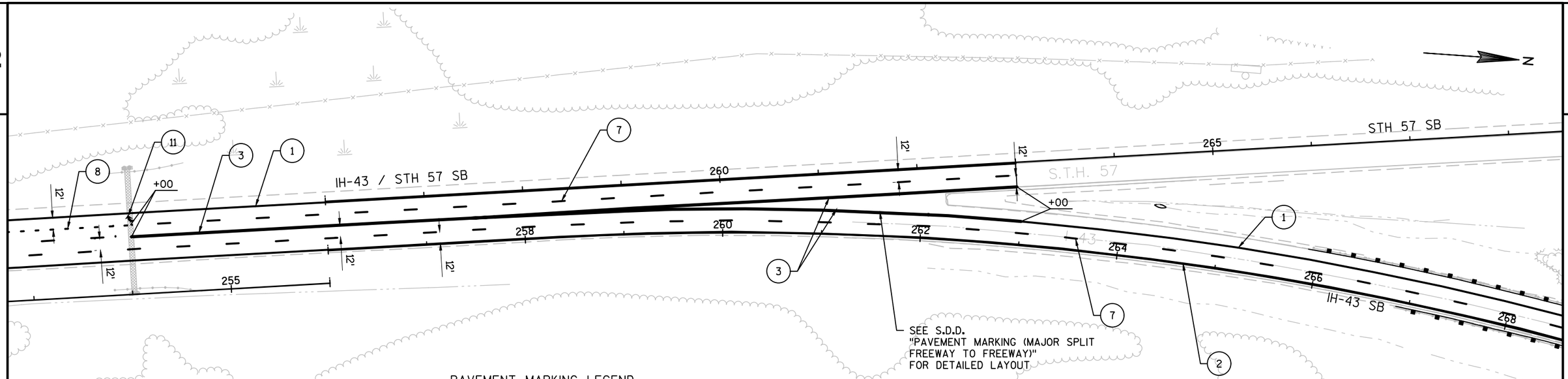


PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 131	E



PAVEMENT MARKING LEGEND

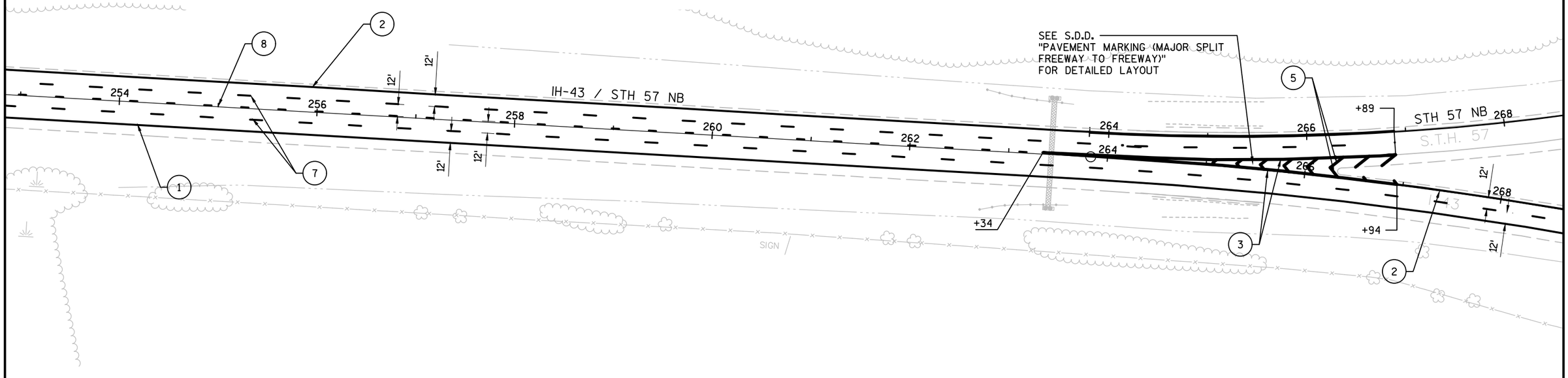
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

⊣⊢ DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

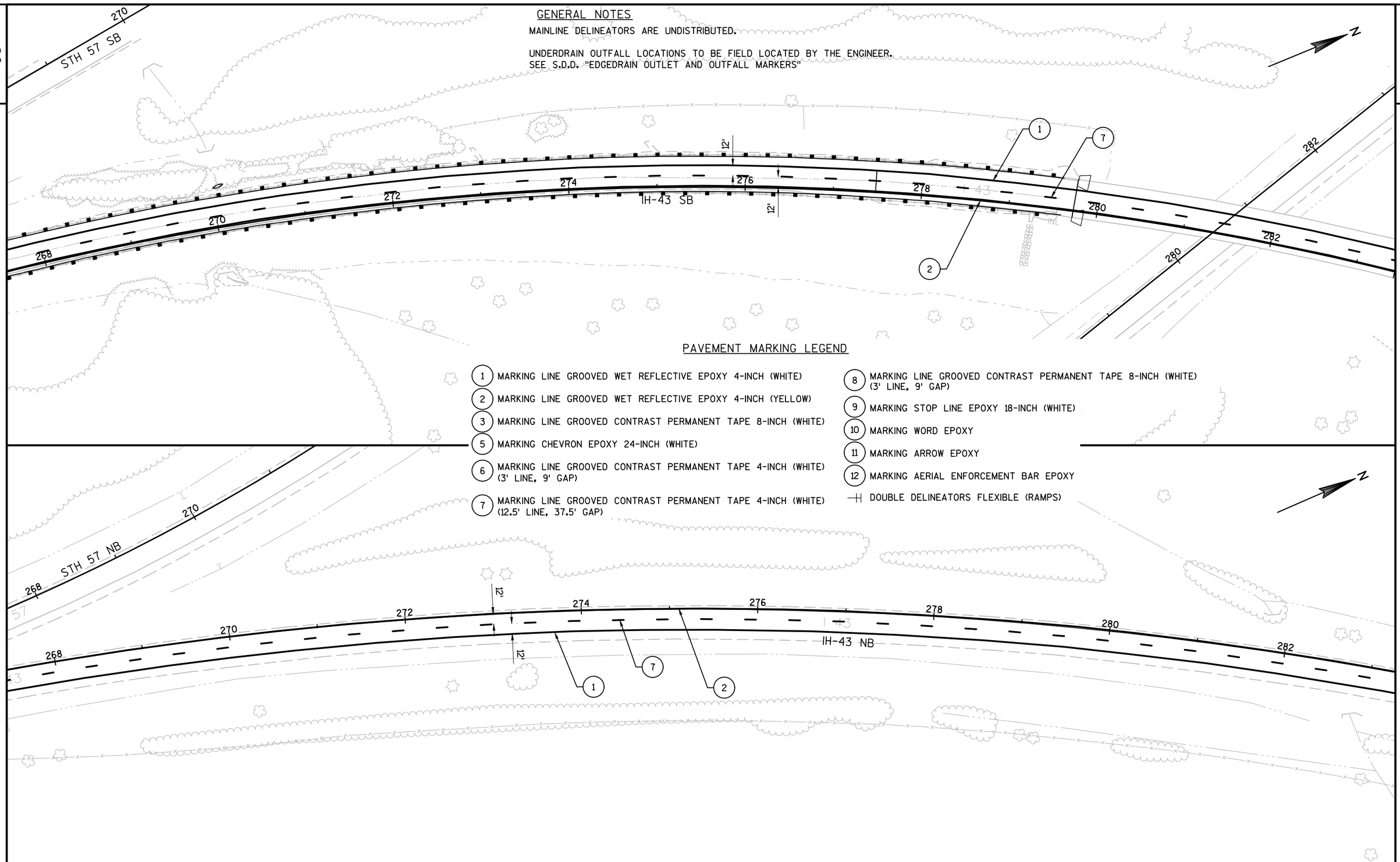


PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 132	E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

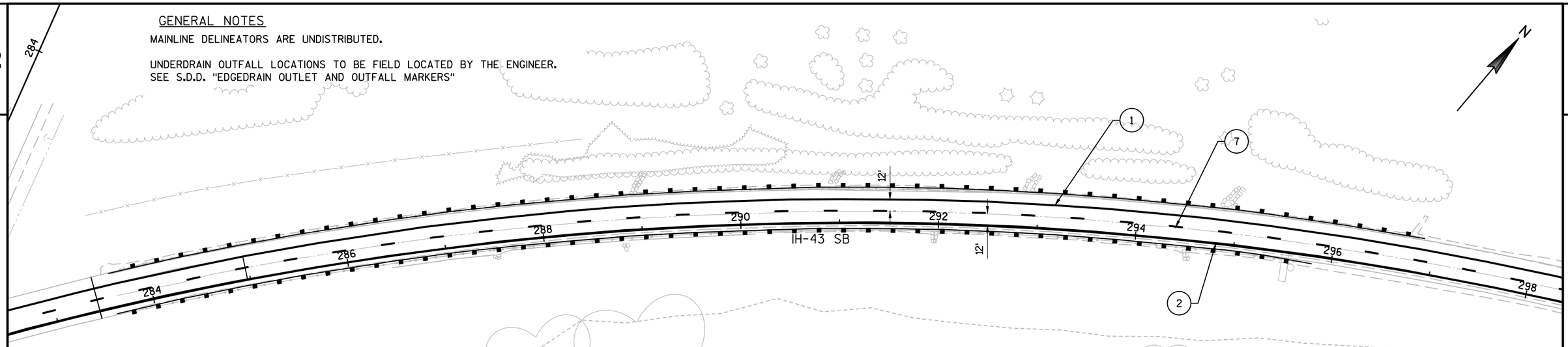
DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 133	E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

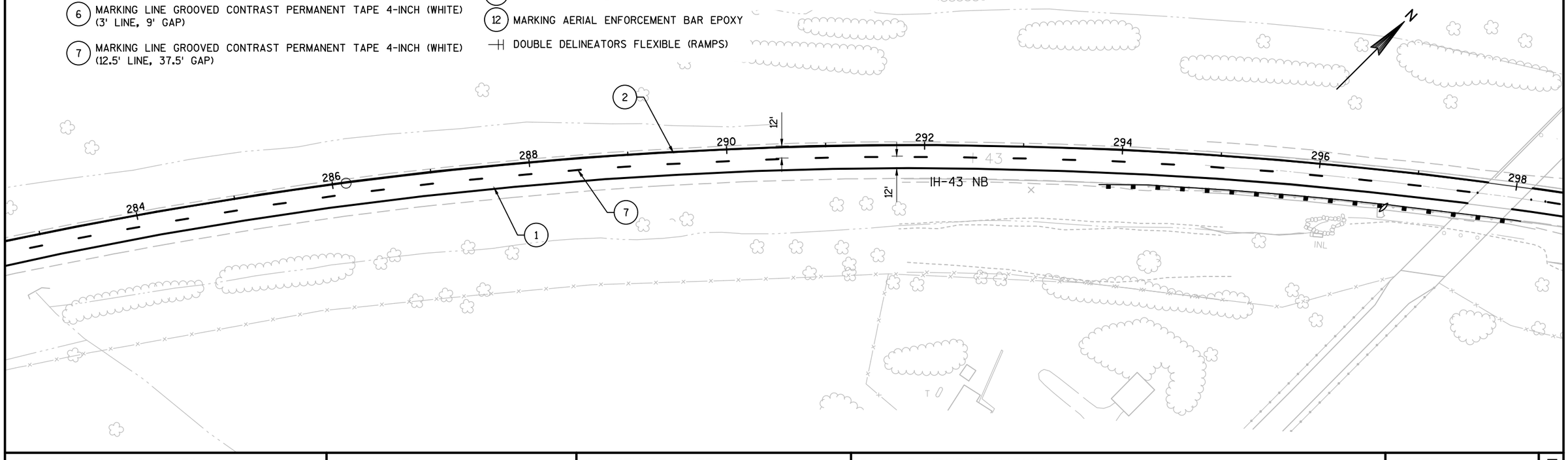
UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 134	E

2

PAVEMENT MARKING LEGEND

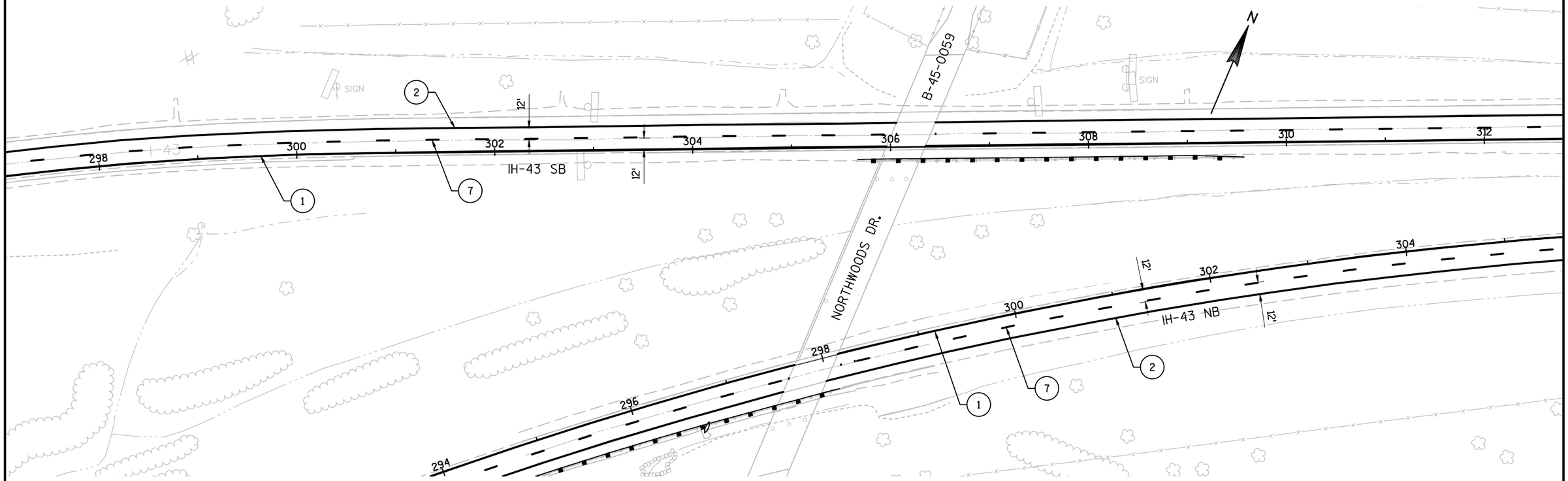
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 135	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024515_PM

PLOT DATE : 1/30/2018 11:41 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : **********

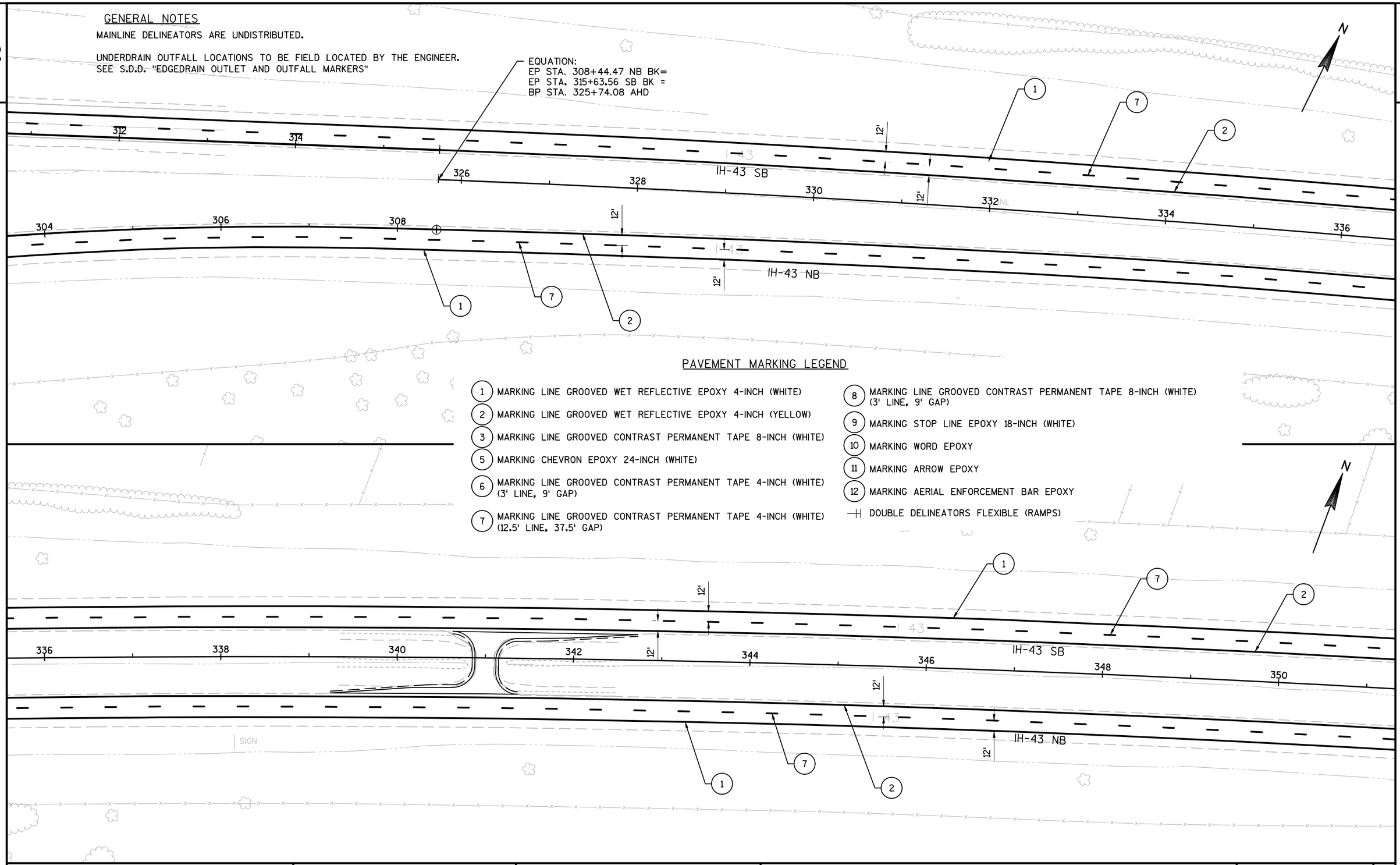
WISDOT/CADDS SHEET 44

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

EQUATION:
EP STA. 308+44.47 NB BK=
EP STA. 315+63.56 SB BK =
BP STA. 325+74.08 AHD



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

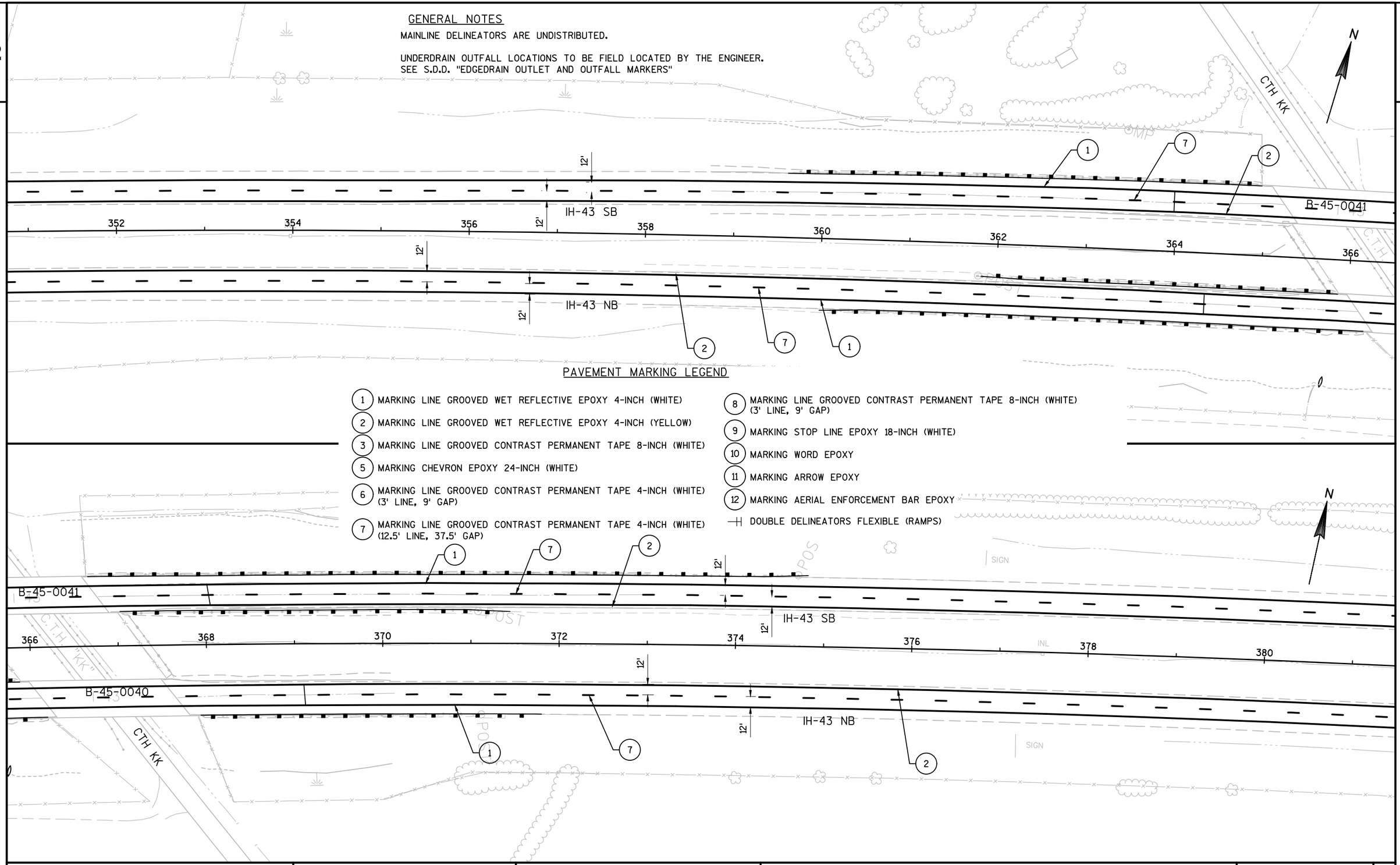
DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 136	E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

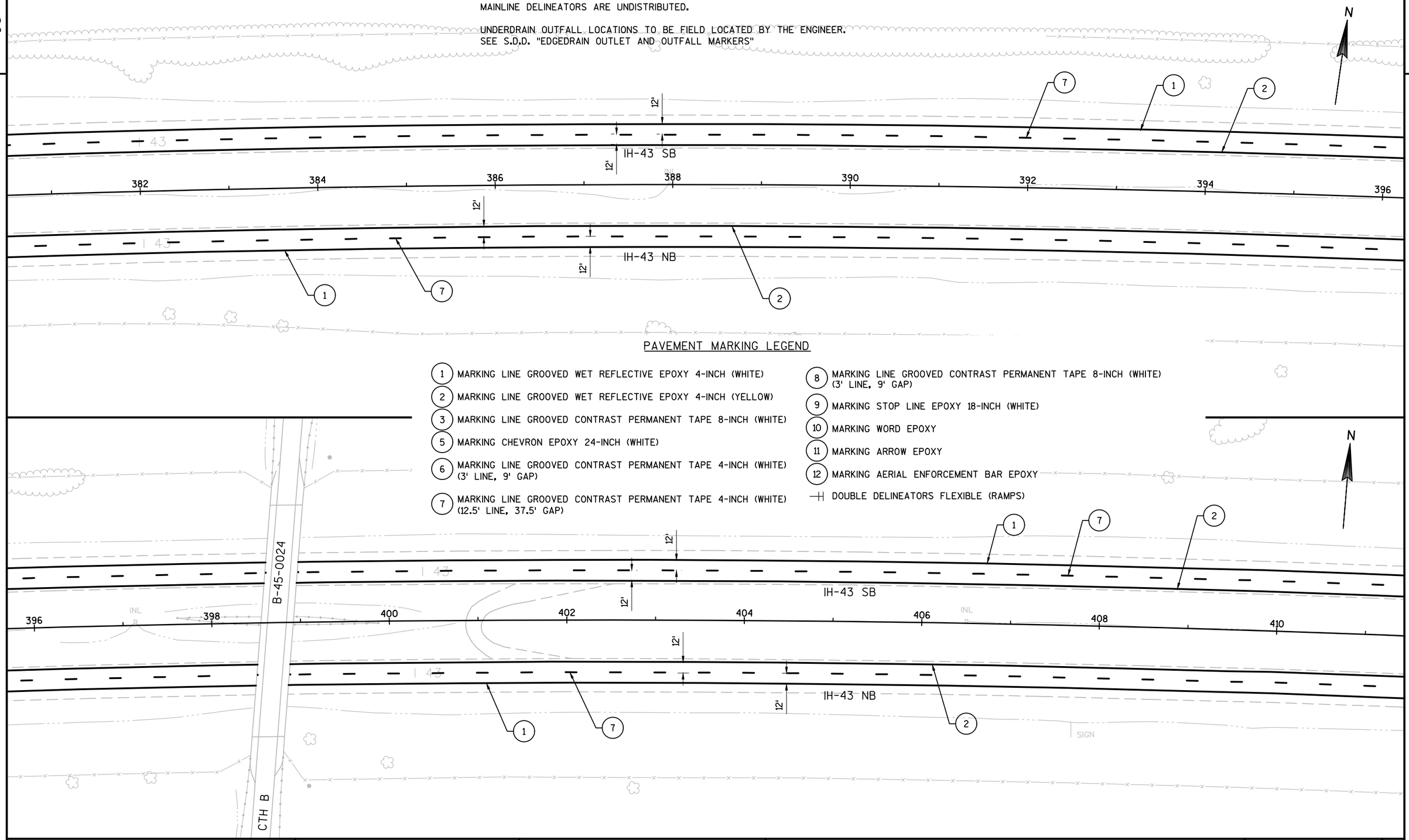
DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 137 E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

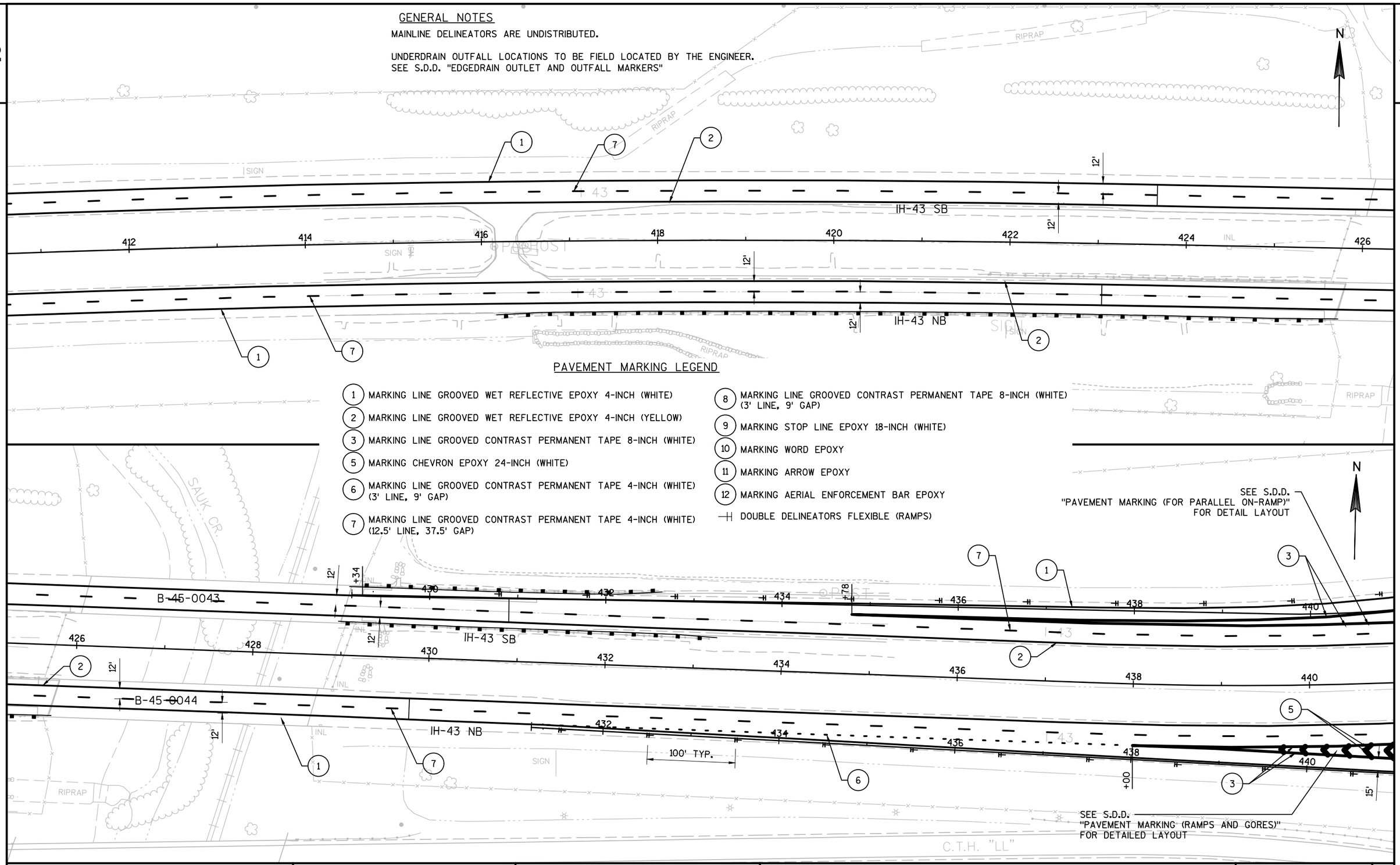
DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 138 E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 139 E

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

SEE S.D.D. "PAVEMENT MARKING (FOR PARALLEL ON-RAMP)" FOR DETAILED LAYOUT

END MARKING 451+40 SB ON RAMP

BEGIN MARKING 453+47 SB OFF RAMP

IH-43 SB ON RAMP

IH-43 SB

IH-43 NB

IH-43 NB OFF RAMP

STH 32 / CTH H

B-45-0045

SEE S.D.D. "PAVEMENT MARKING (RAMPS AND GORES)" FOR DETAILED LAYOUT

TYPE 4

BEGIN MARKING 450+70 NB ON RAMP

END MARKING 451+00 NB OFF RAMP

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 140	E

2

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

BEGIN MARKING 453+47
SB OFF RAMP

BEGIN MARKING 450+70
NB ON RAMP

TYPE 4

100' TYP.

15'

12'

C.T.H. "H"

STH 32 / CTH H

IH-43 SB

IH-43 SB OFF RAMP

IH-43 NB

IH-43 NB ON RAMP

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 141	E

2

PAVEMENT MARKING LEGEND

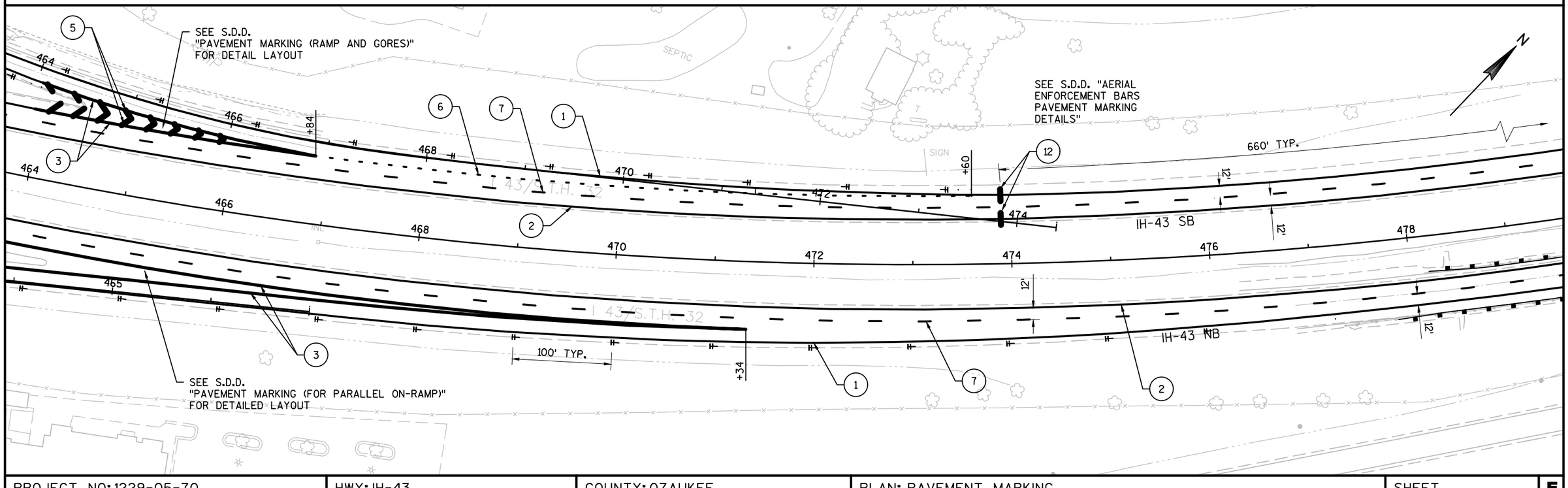
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

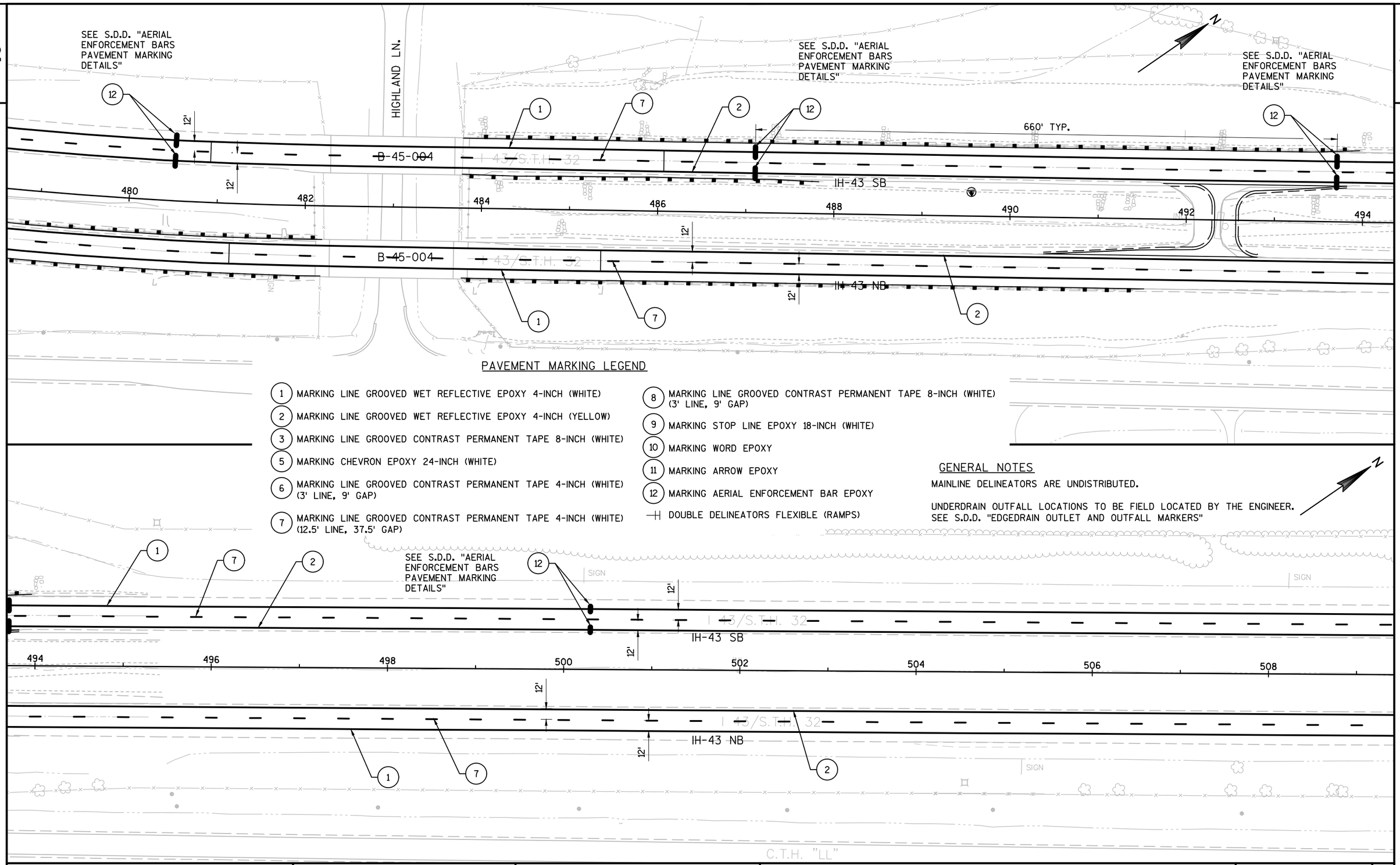
GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 142	E



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

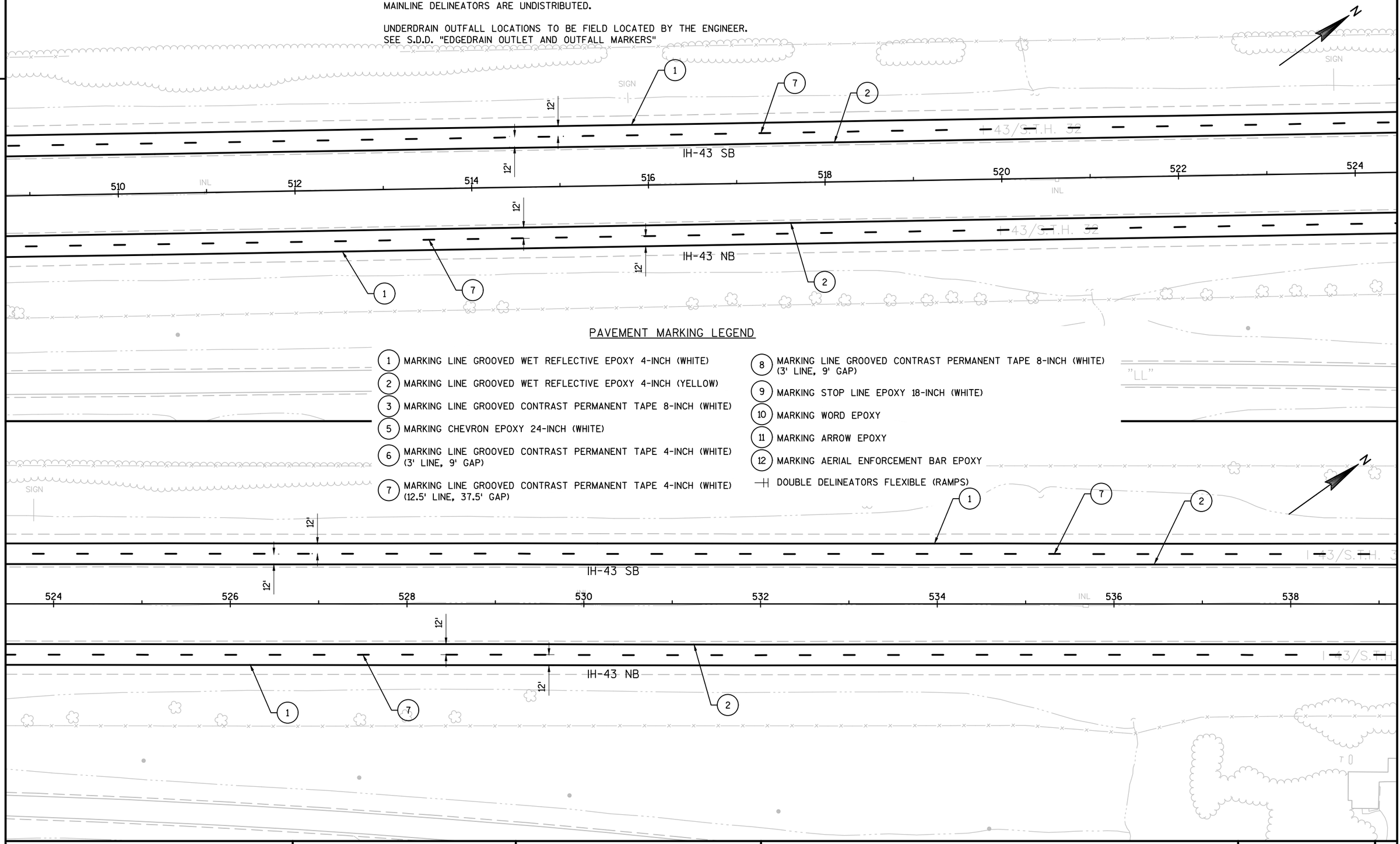
UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 143 E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

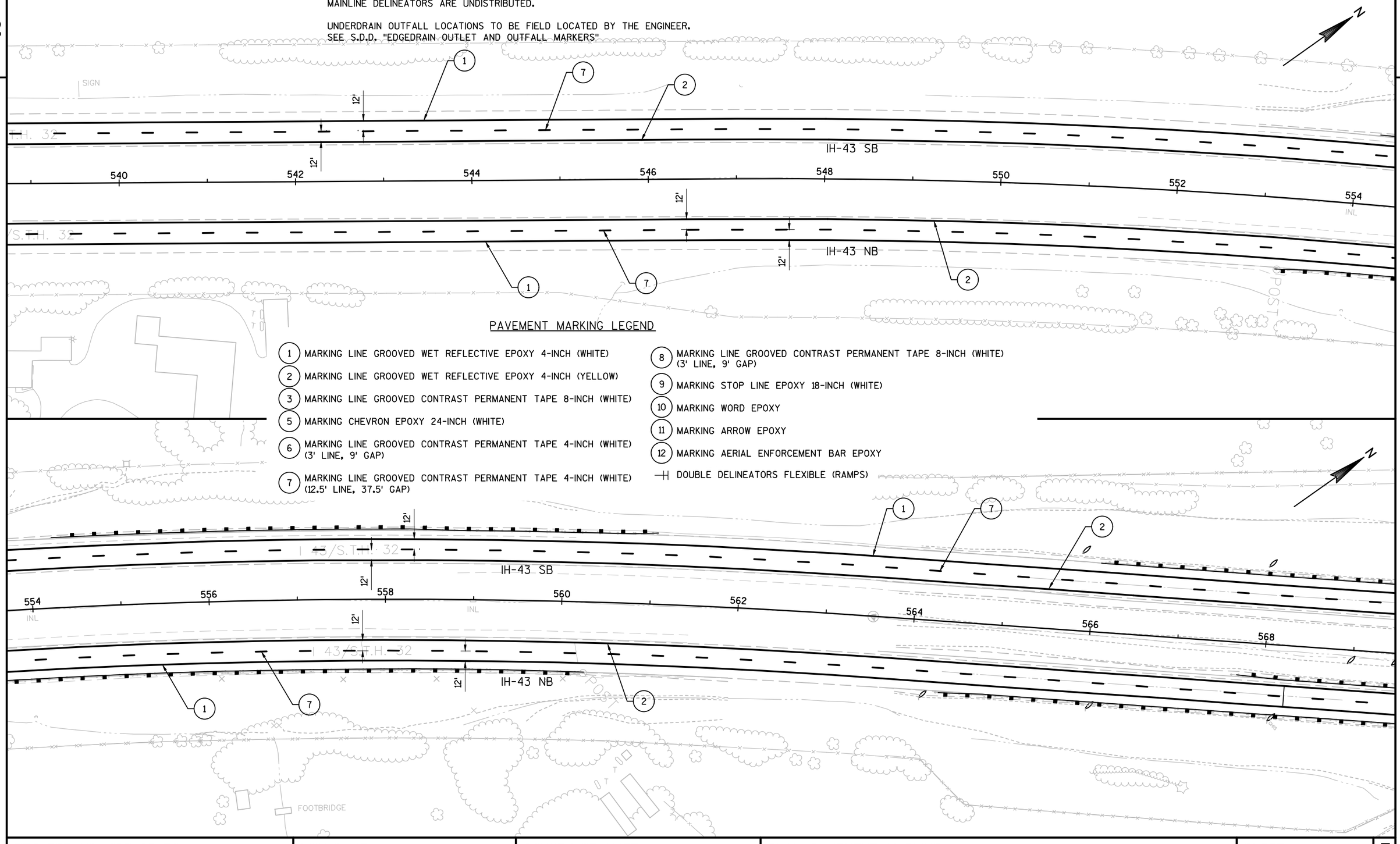
DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 144	E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

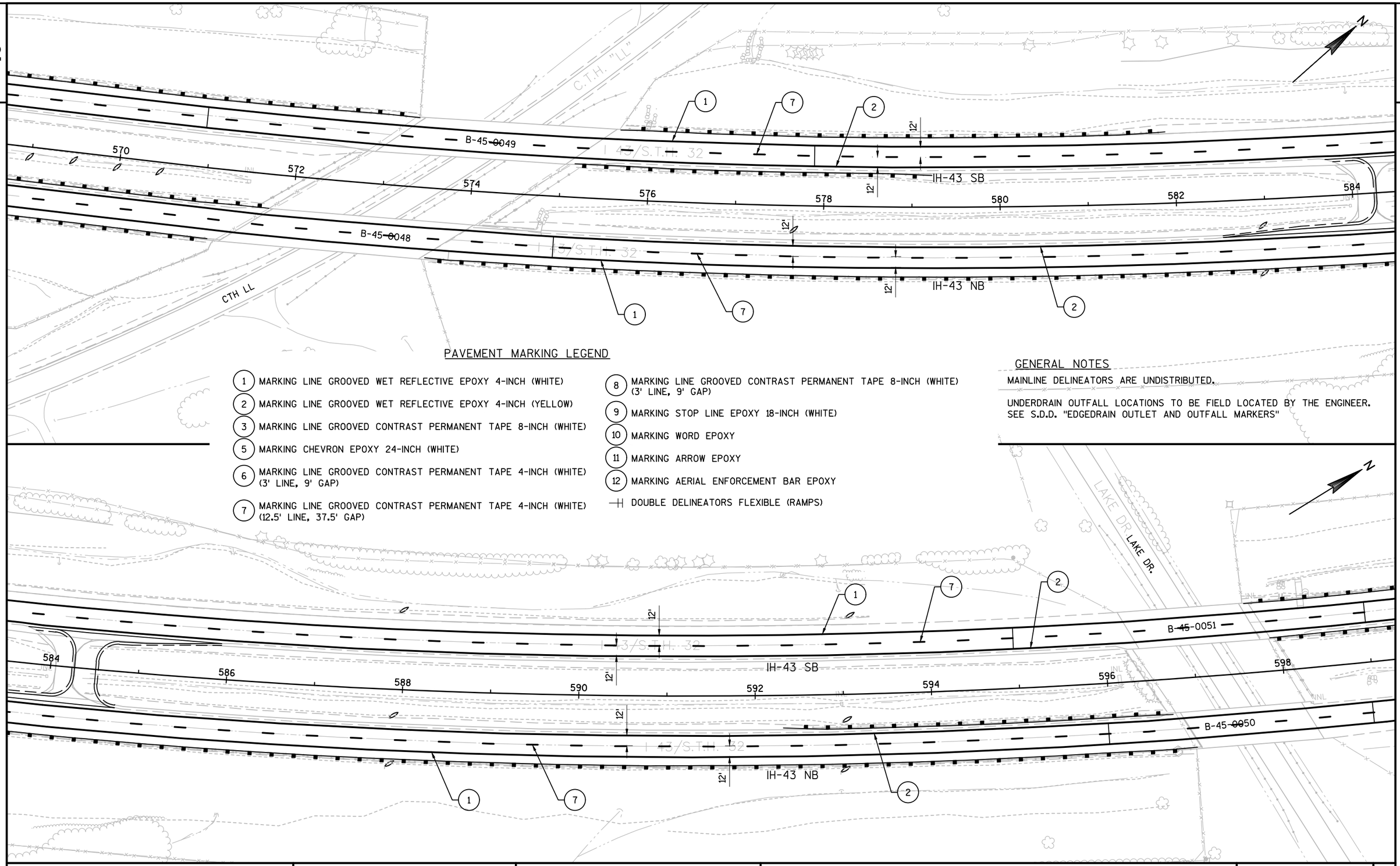


PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 145	E



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

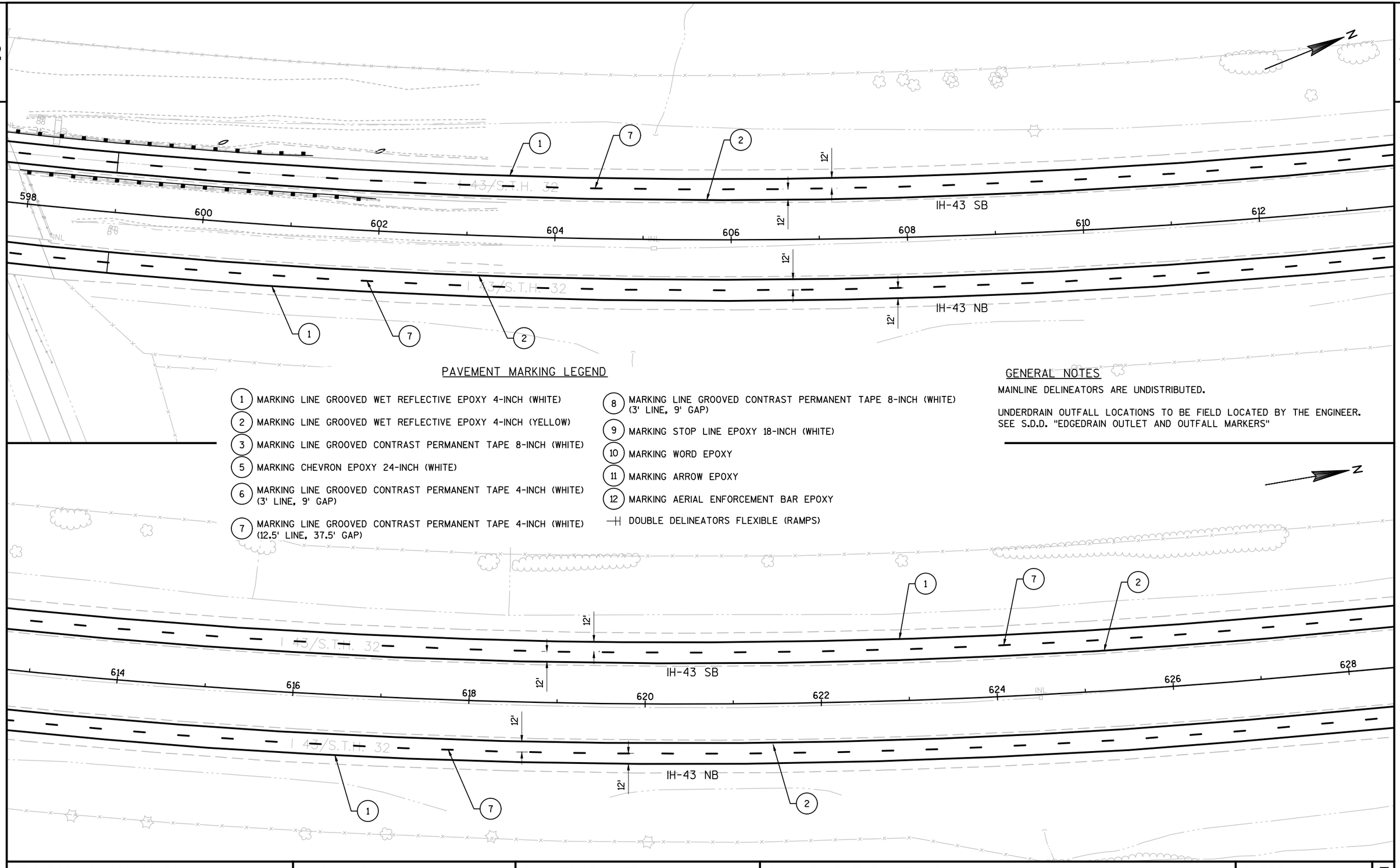
DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 146	E



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

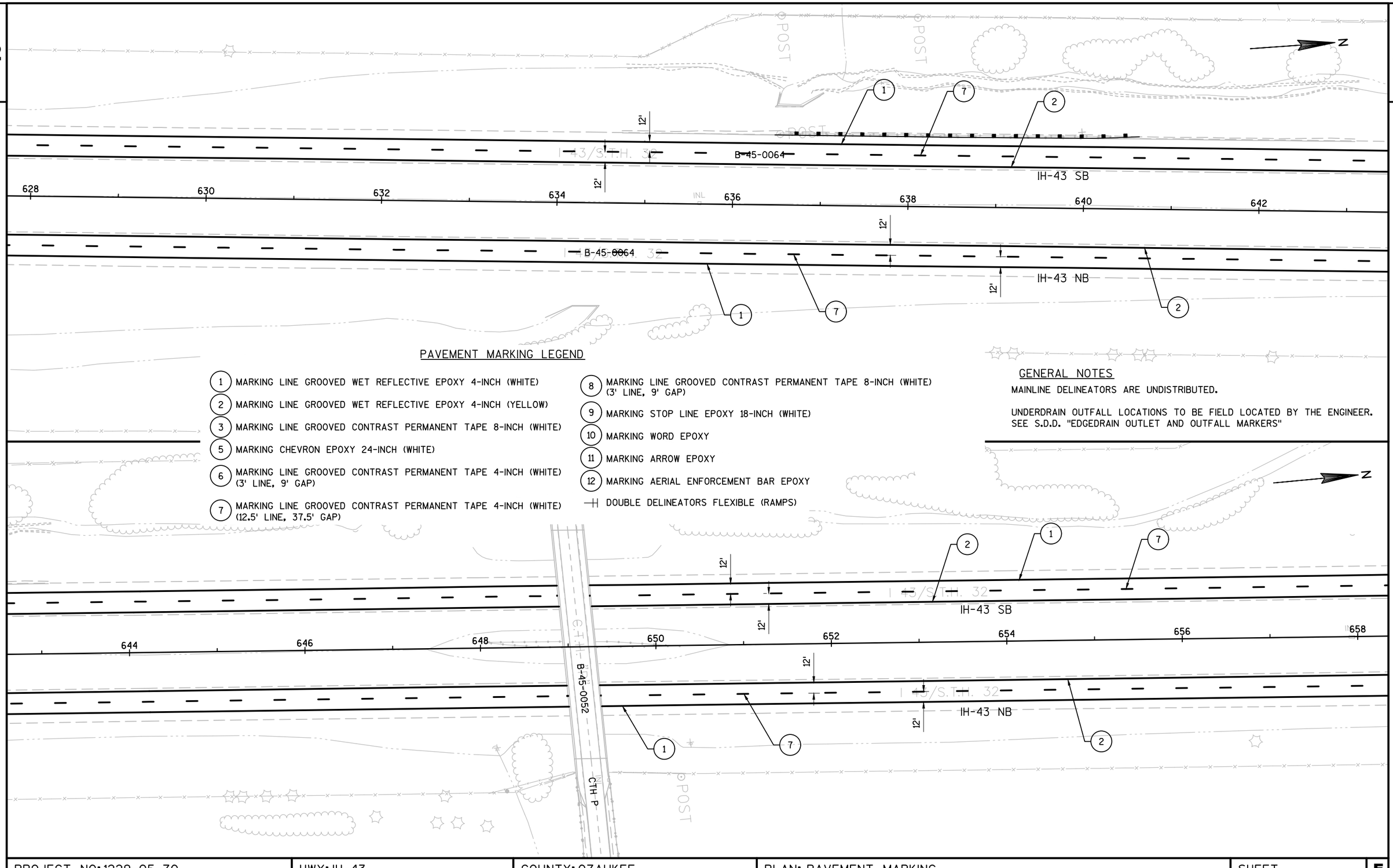
⊣⊢ DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 147	E



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

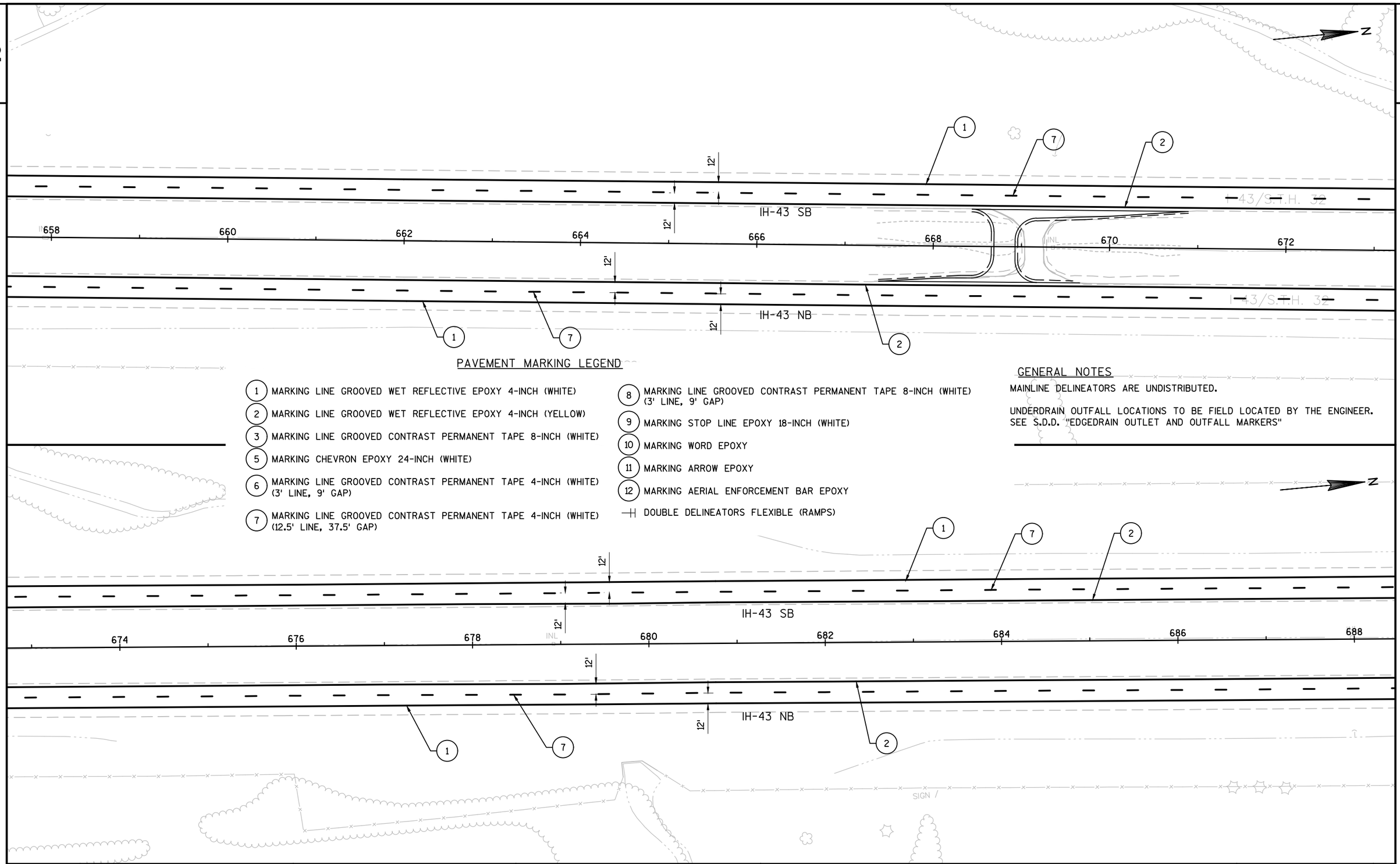
DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 148	E



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

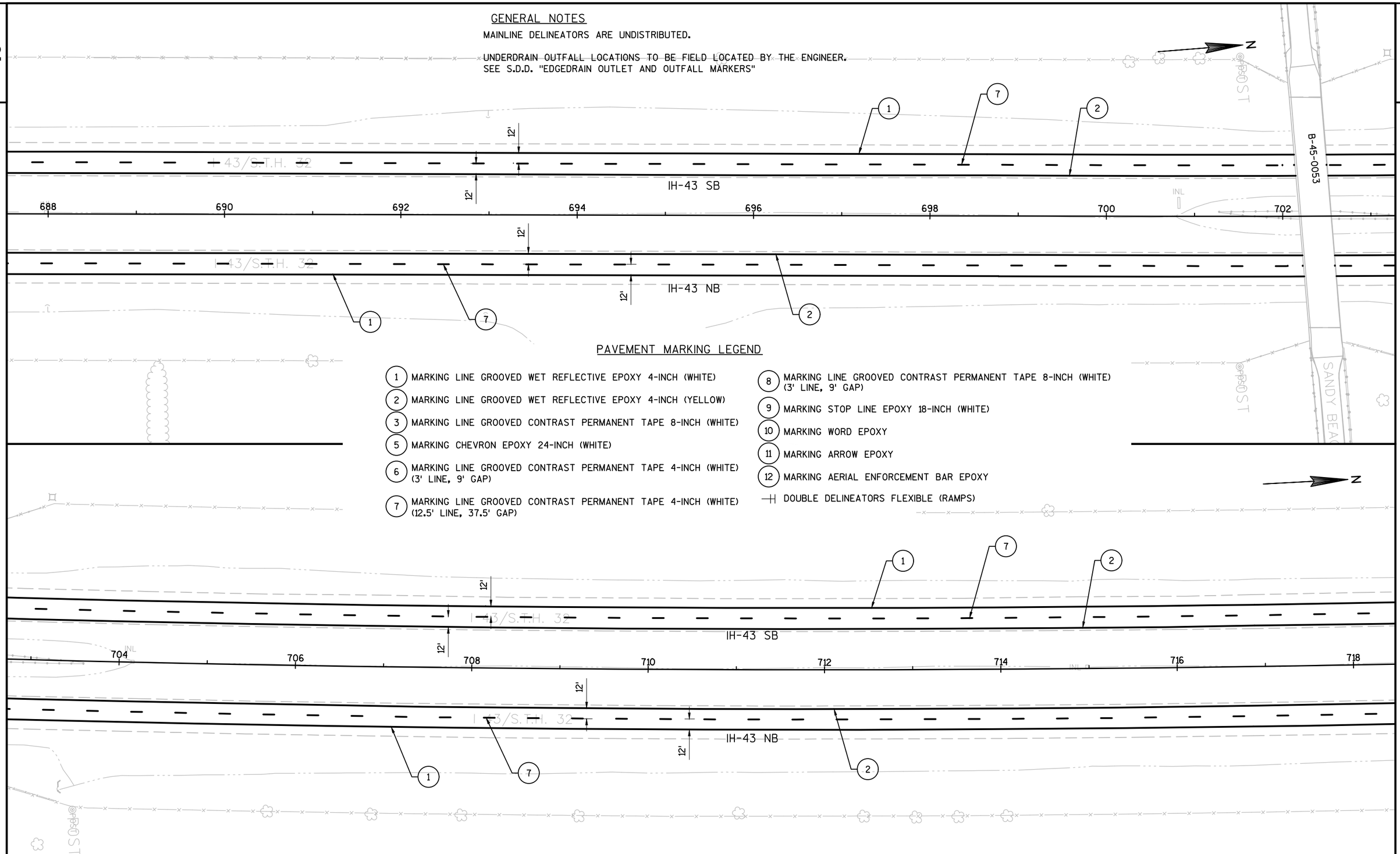
UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 149	E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

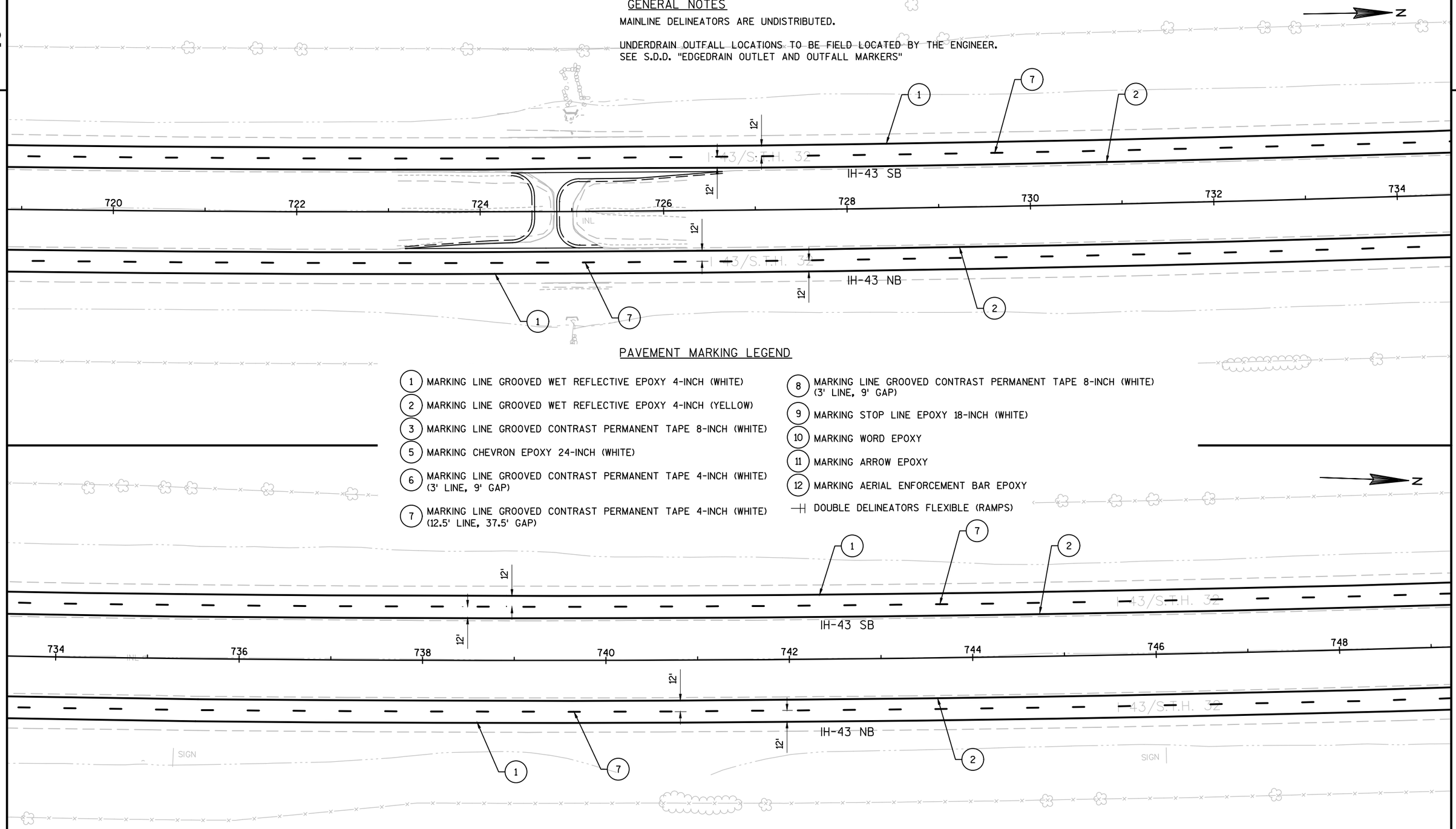
DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 150	E

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

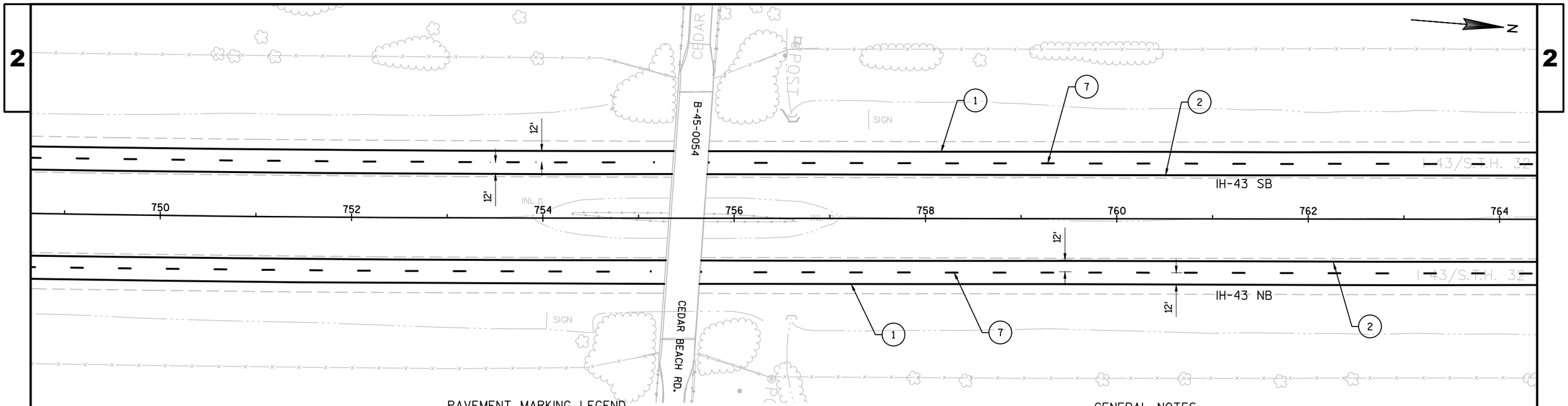


PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 151	E



PAVEMENT MARKING LEGEND

(1) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

(2) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)

(3) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)

(5) MARKING CHEVRON EPOXY 24-INCH (WHITE)

(6) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)

(7) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)

(8) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)

(9) MARKING STOP LINE EPOXY 18-INCH (WHITE)

(10) MARKING WORD EPOXY

(11) MARKING ARROW EPOXY

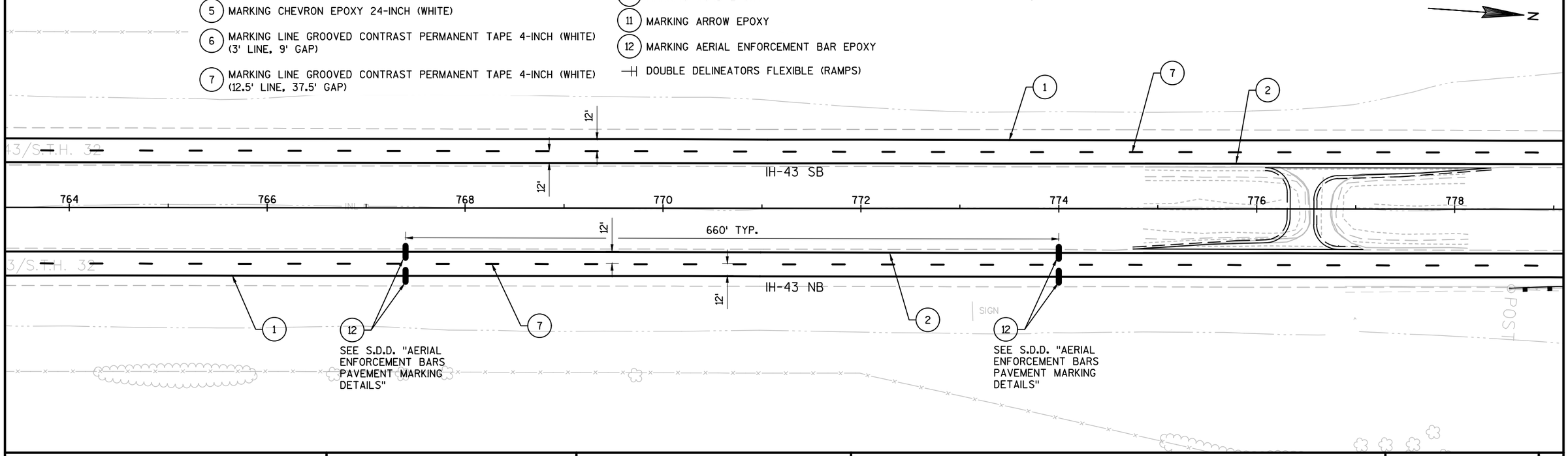
(12) MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

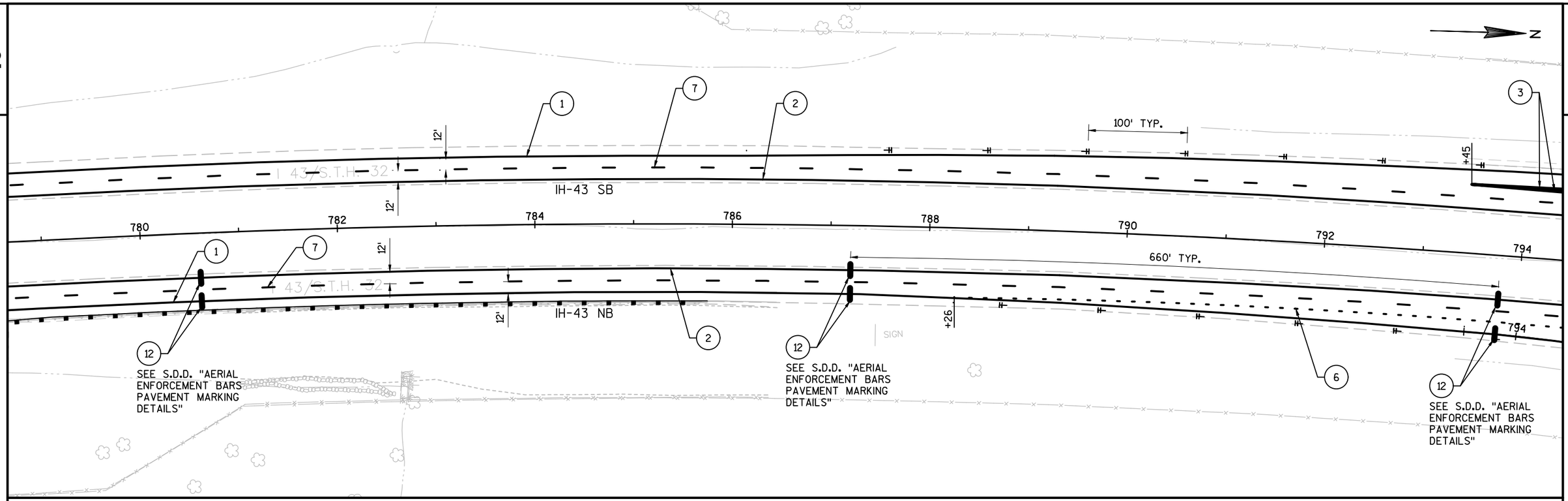
GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 152	E



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 153	E

PAVEMENT MARKING LEGEND

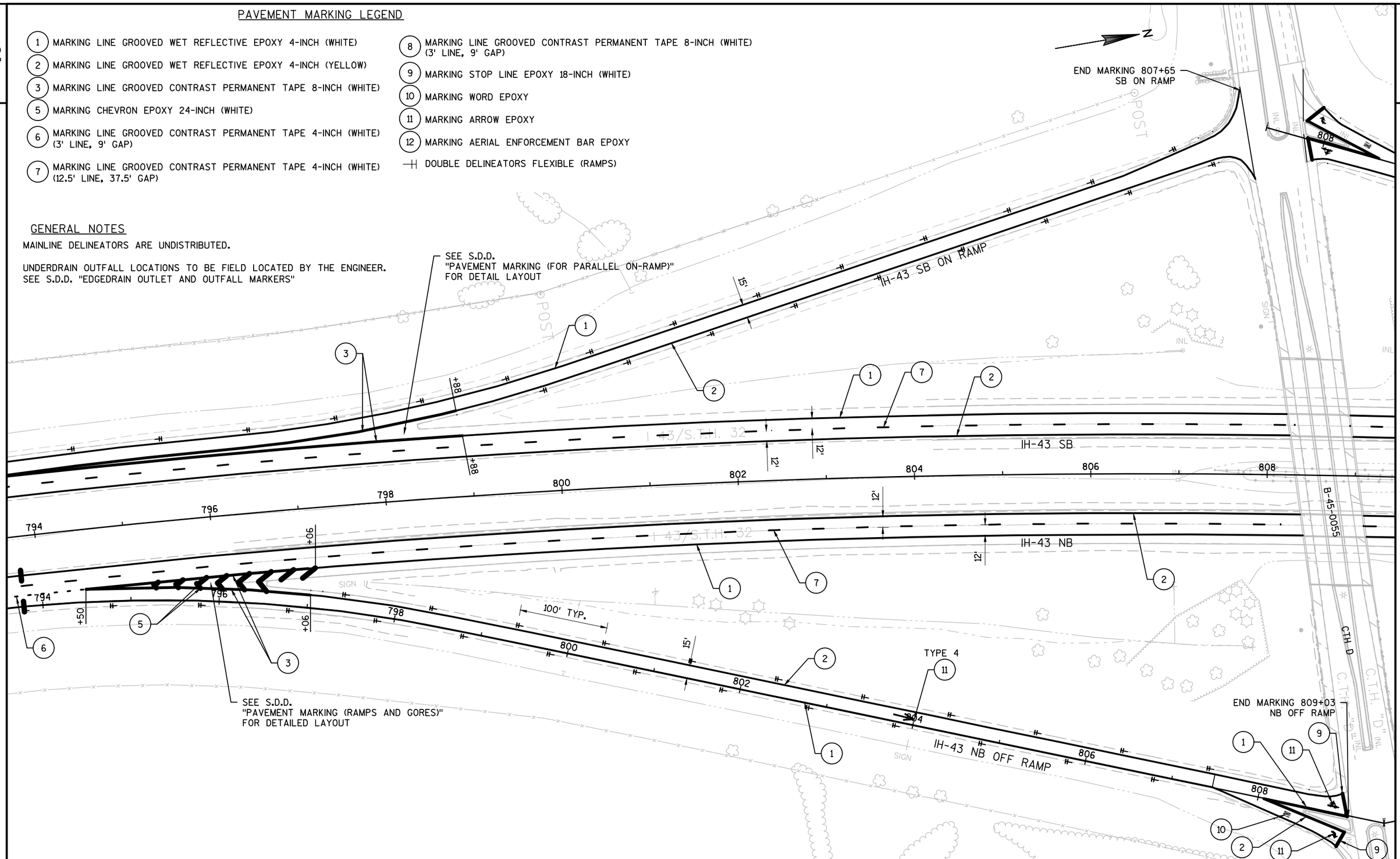
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 154 E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024534_PM
PLOT DATE : 1/30/2018 11:54 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

BEGIN MARKING 807+75
SB OFF RAMP

IH-43 SB OFF RAMP

TYPE 4

IH-43 SB

IH-43 NB

IH-43 NB ON RAMP

BEGIN MARKING 809+93
NB ON RAMP

100' TYP.

SEE S.D.D.
"PAVEMENT MARKING (RAMP AND GORES)"
FOR DETAIL LAYOUT

SEE S.D.D.
"PAVEMENT MARKING (FOR PARALLEL ON-RAMP)"
FOR DETAIL LAYOUT

IH-43

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 155	E

2

PAVEMENT MARKING LEGEND

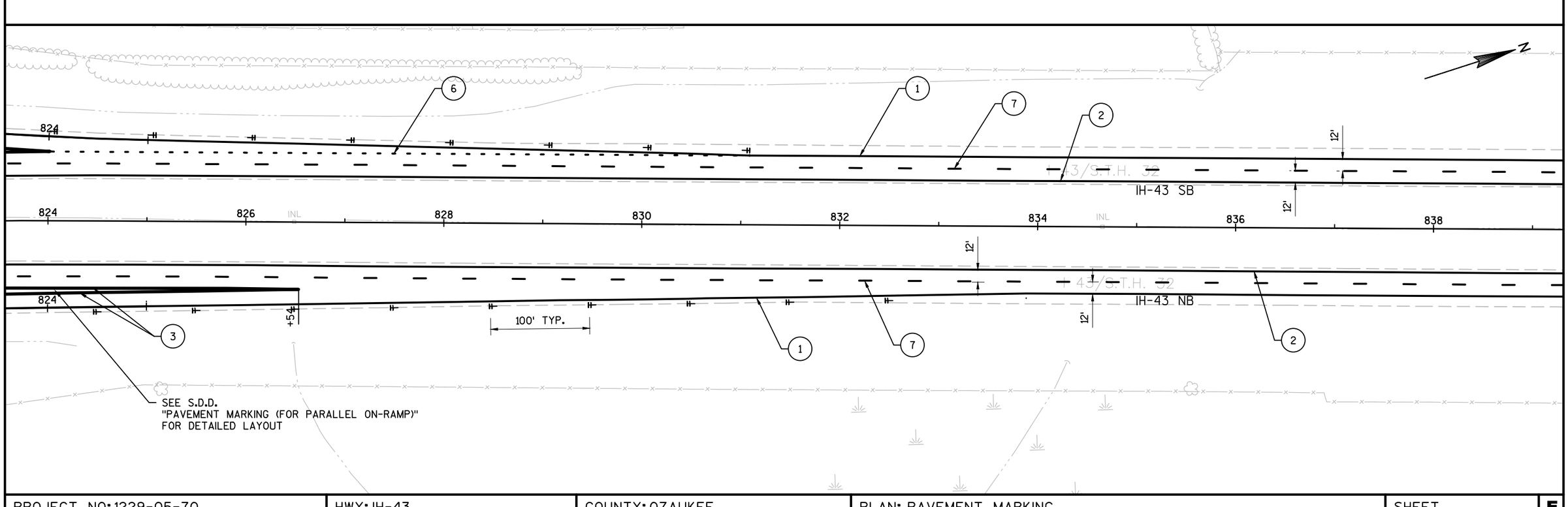
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

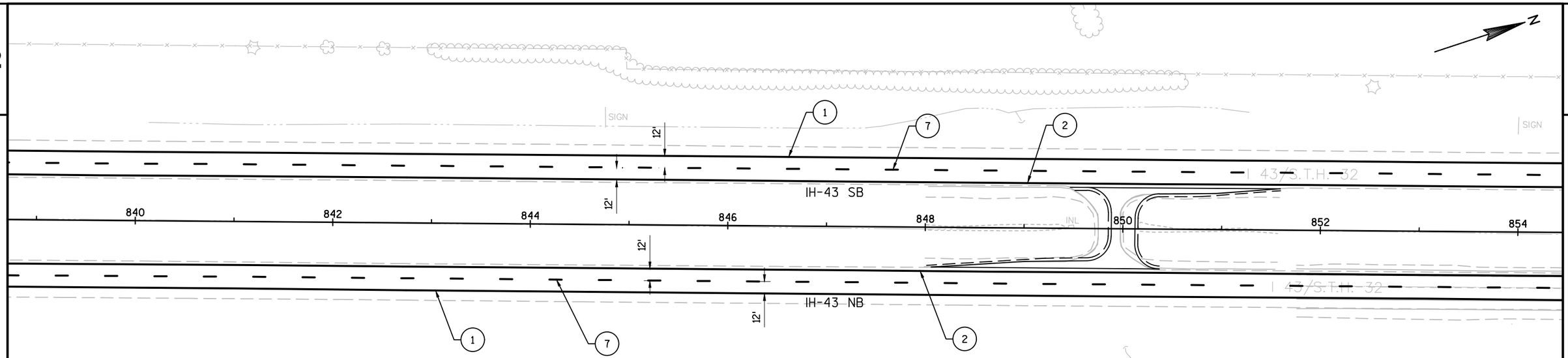
GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 156	E



PAVEMENT MARKING LEGEND

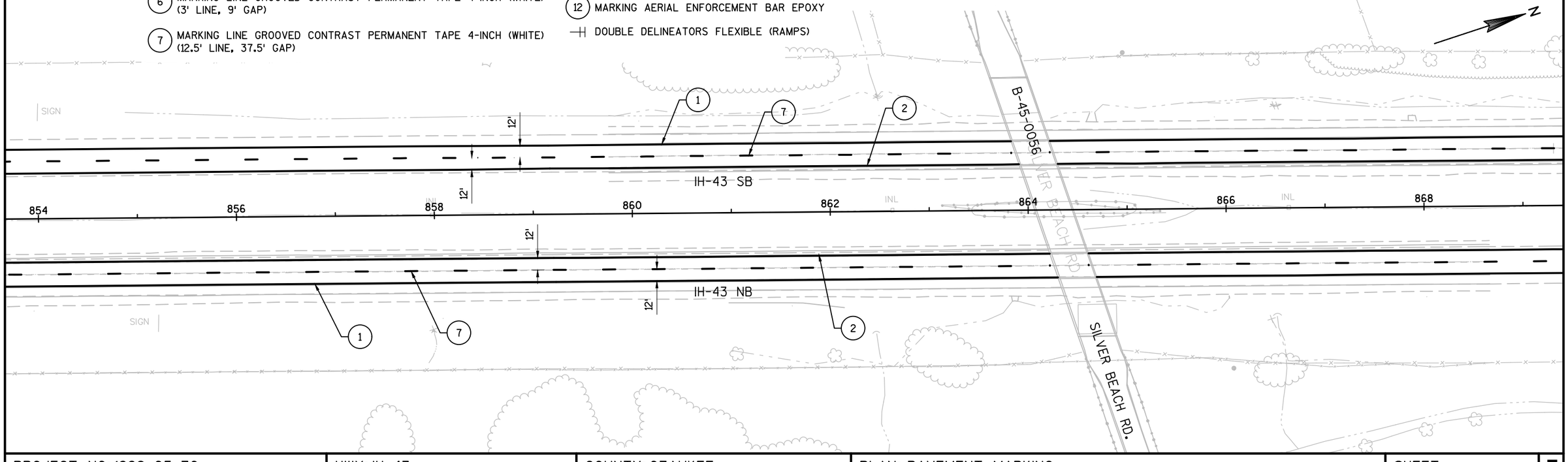
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

⊣⊢ DOUBLE DELINEATORS FLEXIBLE (RAMPS)

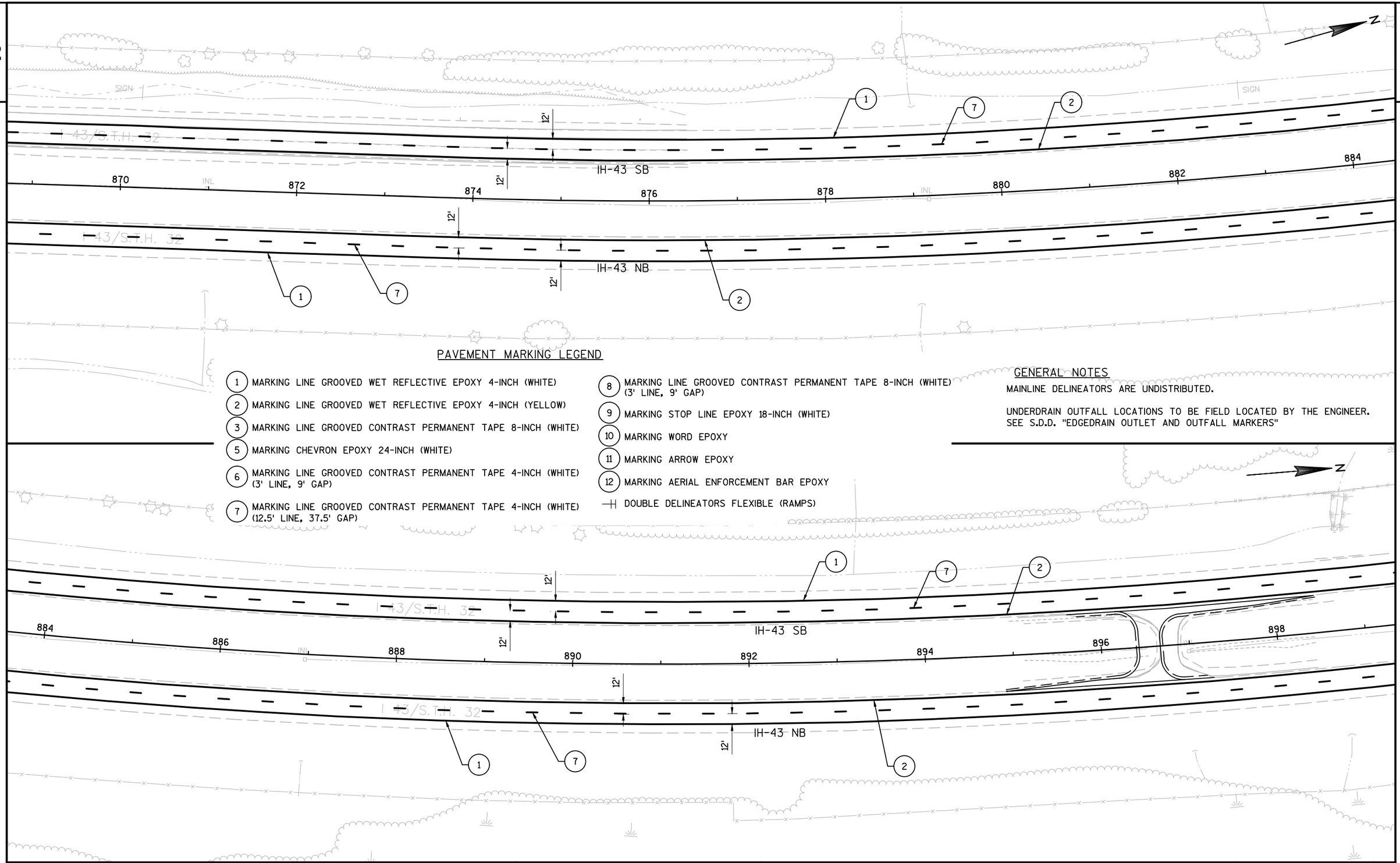
GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 157	E



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

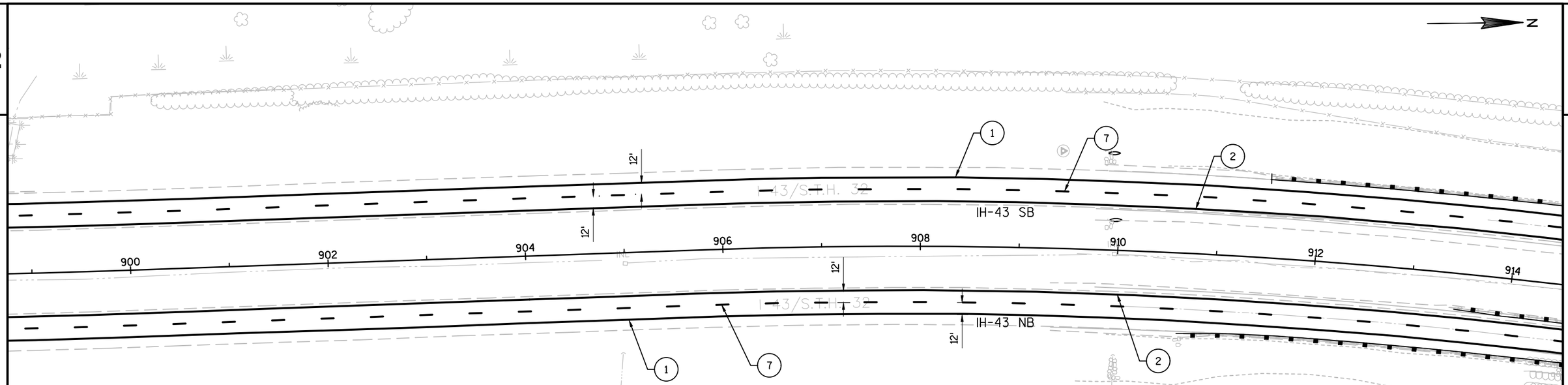
DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 158	E



PAVEMENT MARKING LEGEND

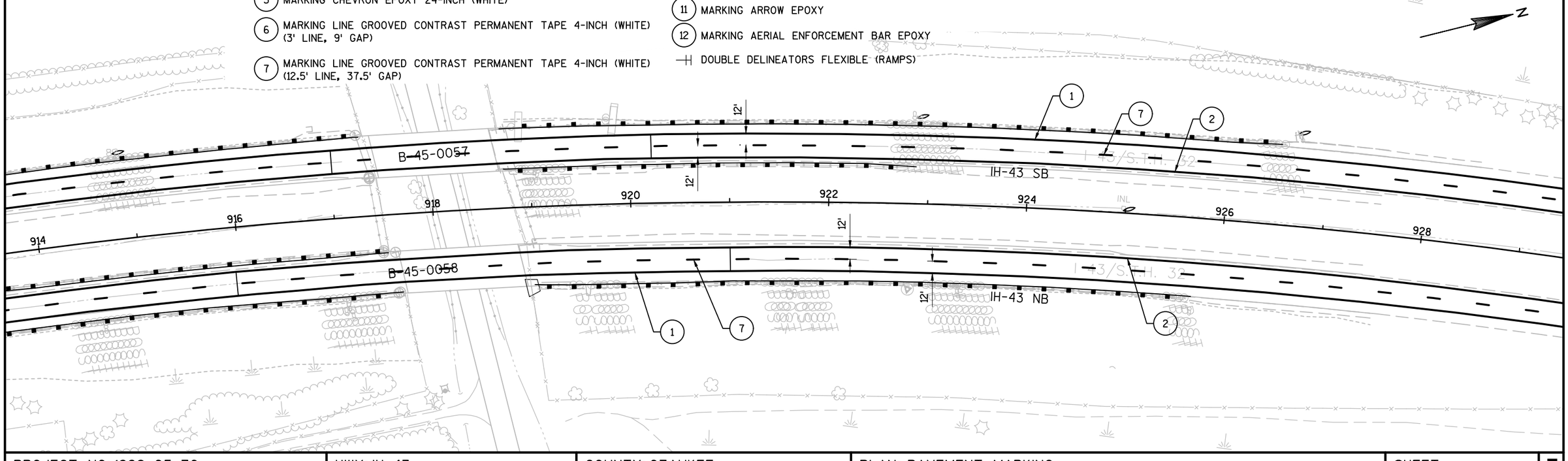
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

GENERAL NOTES

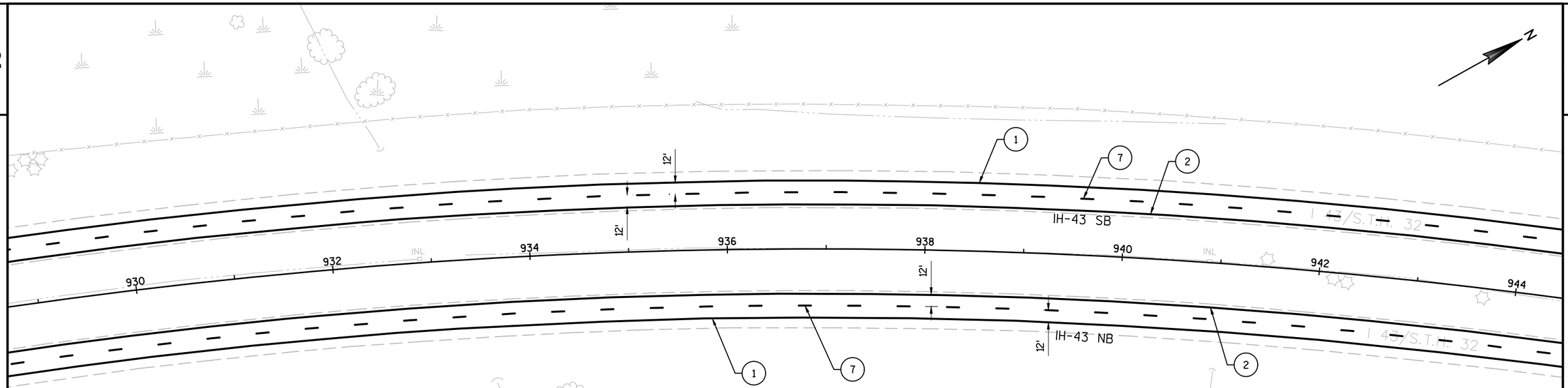
MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 159	E

2



PAVEMENT MARKING LEGEND

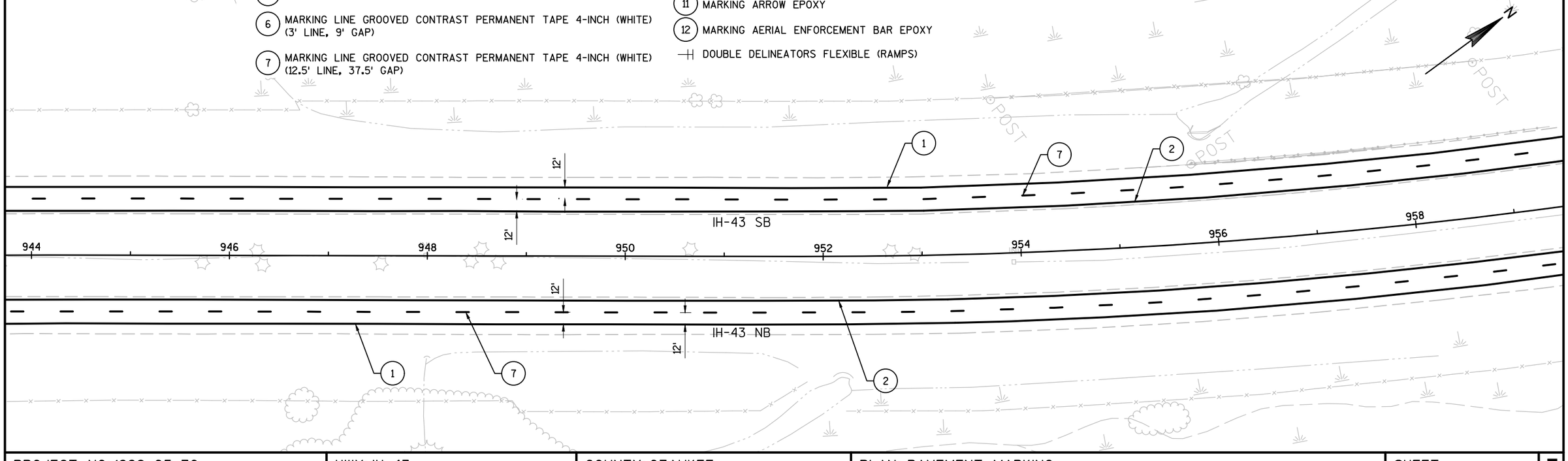
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)
9. MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY
12. MARKING AERIAL ENFORCEMENT BAR EPOXY

DOUBLE DELINEATORS FLEXIBLE (RAMPS)

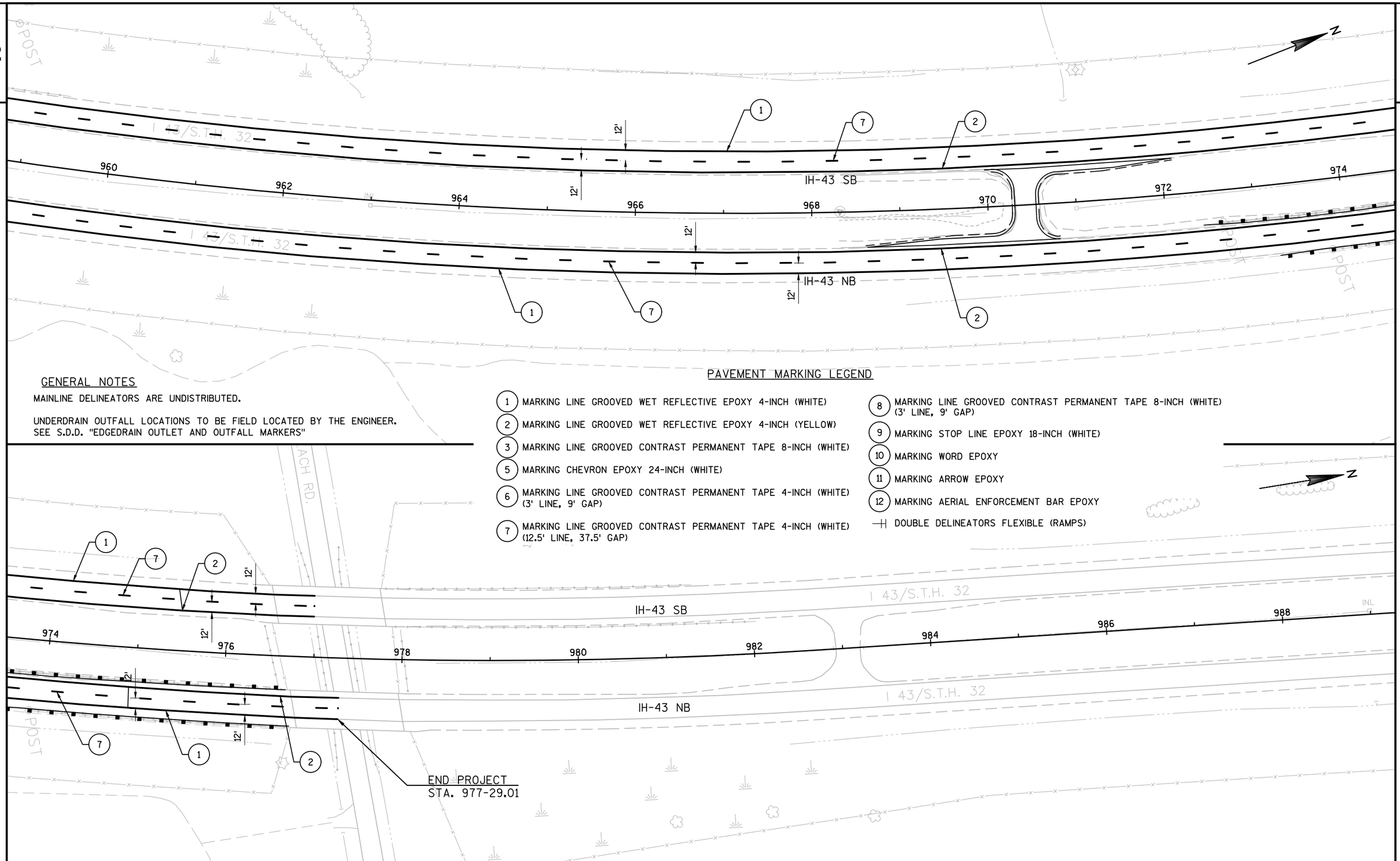
GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER. SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 160	E



GENERAL NOTES

MAINLINE DELINEATORS ARE UNDISTRIBUTED.

UNDERDRAIN OUTFALL LOCATIONS TO BE FIELD LOCATED BY THE ENGINEER.
SEE S.D.D. "EDGEDRAIN OUTLET AND OUTFALL MARKERS"

PAVEMENT MARKING LEGEND

(1) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

(2) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)

(3) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)

(5) MARKING CHEVRON EPOXY 24-INCH (WHITE)

(6) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3' LINE, 9' GAP)

(7) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)

(8) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3' LINE, 9' GAP)

(9) MARKING STOP LINE EPOXY 18-INCH (WHITE)

(10) MARKING WORD EPOXY

(11) MARKING ARROW EPOXY

(12) MARKING AERIAL ENFORCEMENT BAR EPOXY

⊣⊢ DOUBLE DELINEATORS FLEXIBLE (RAMPS)

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	PLAN: PAVEMENT MARKING	SHEET 161	E

2

N

43

N PORT WASHINGTON RD

100

HEATHER LN

WIDE LOADS
EXCEEDING
12 FT

R12-70B
114"X42"

*

MAX.
12'
WIDTH

W12-52
48"X48"

* *

MILWAUKEE COUNTY

N

2

SUPERIOR AVE

MAX.
12'
WIDTH

W12-52
48"X48"

* *

*

WIDE LOADS
EXCEEDING
12 FT

R12-70B
114"X42"

23

43

LEGEND

◎ SIGN ON SUPPORT

* TO BE INSTALLED DURING LANE AND FULL FREEWAY CLOSURES

* * TO BE INSTALLED DURING LANE CLOSURES

SHEBOYGAN COUNTY

PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: OVERSIZE/ OVERWEIGHT	SHEET	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\026000_TC.DWG
LAYOUT NAME - OVSIZE_OVWEIGHT
PLOT DATE : 12/4/2017 11:46 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ############
WISDOT/CADDS SHEET 42

FULL FREEWAY CLOSURE NOTES

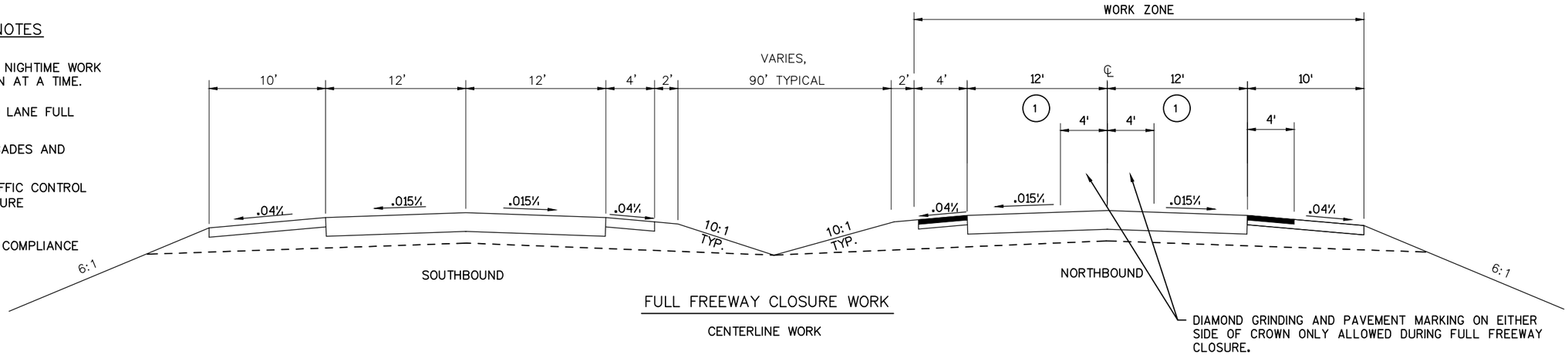
FULL FREEWAY CLOSURE DURING NIGHTIME WORK ALLOWED ONLY IN ONE DIRECTION AT A TIME.

SEE CONSTRUCTION DETAIL: TWO LANE FULL FREEWAY CLOSURE.

SEE SDD 15C2 SHEET B: BARRICADES AND SIGNS FOR MAINLINE CLOSURES.

SEE CONSTRUCTION DETAIL: TRAFFIC CONTROL FOR ENTRANCE/EXIT RAMP CLOSURE (SHORT TERM ONLY).

DETOUR ROUTES TO BE IN FULL COMPLIANCE AND OPERATION PRIOR TO THE FREEWAY CLOSURE.

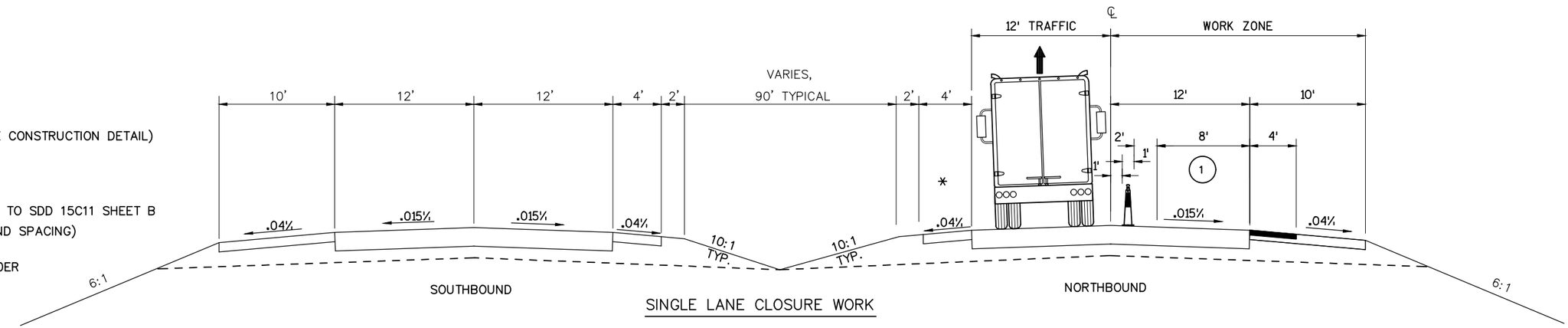


FULL FREEWAY CLOSURE WORK

CENTERLINE WORK

LEGEND

- (1) DIAMOND GRINDING
- SHOULDER REPAIR (SEE CONSTRUCTION DETAIL)
- TRAFFIC FLOW
- GRABBER CONE (REFER TO SDD 15C11 SHEET B FOR PROPER USAGE AND SPACING)
- * NO TRAFFIC ON SHOULDER



SINGLE LANE CLOSURE WORK

INSIDE LANE WORK ZONE

SINGLE LANE CLOSURE NOTES

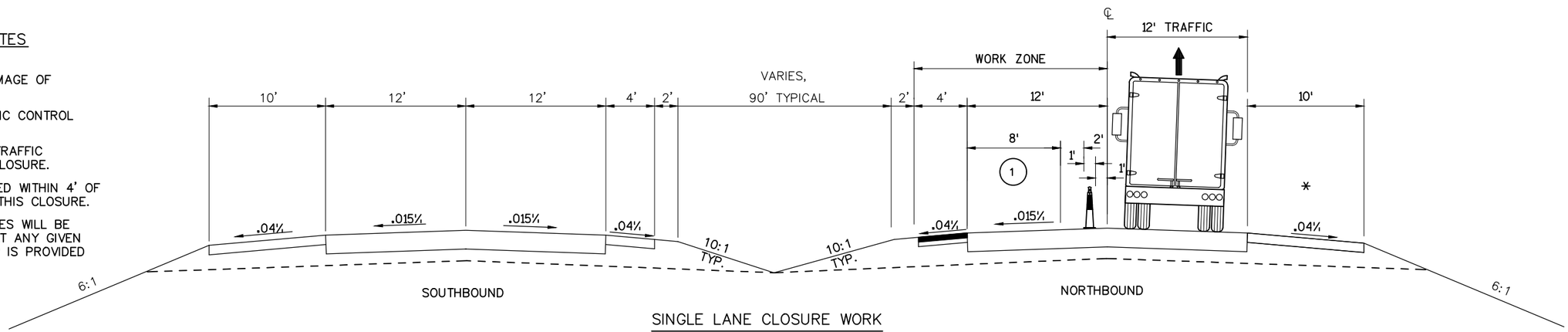
SOUTHBOUND WORK IS MIRROR IMAGE OF NORTHBOUND WORK.

SEE SDD 15D12 SHEET A: TRAFFIC CONTROL FOR SINGLE LANE CLOSURE.

SEE SDD 15D15 SHEET A & E: TRAFFIC CONTROL, RAMPS WITHIN LANE CLOSURE.

DIAMOND GRINDING NOT PERMITTED WITHIN 4' OF EITHER SIDE OF CROWN DURING THIS CLOSURE.

TWO 4–MILE LONG LANE CLOSURES WILL BE PERMITTED IN EACH DIRECTION AT ANY GIVEN TIME SO LONG AS A 2 MILE GAP IS PROVIDED BETWEEN EACH CLOSURE.



SINGLE LANE CLOSURE WORK

OUTSIDE LANE WORK ZONE

PROJECT NO: 1229-05-00	HWY: IH-43 NB	COUNTY: OZAUKEE	TRAFFIC CONTROL: TYPICAL SECTION DURING NON PEAK HOURS	SHEET 163	E

2

2

Saukville

N

33

Q

W

60

V

57

D

CC

KK

NORTHWOODS RD

MINK RANCH RD

ARROWHEAD RD

ULAO PKWY

SAUK RD

ULAO RD

53

32

Q

H

A

B

C

LL

6 MILE RD

SHEBOYGAN COUNTY

OZAUKEE COUNTY

HIGHLAND

LAKE DRIVE

CEDAR BEACH

SILVER BEACH RD

JAY ROAD

PEBBLE BEACH RD

K

RR

P

43

OZAUKEE COUNTY

SHEBOYGAN COUNTY

LEGEND

DETOUR ROUTE

WORK ZONE

PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	DETOUR OVERVIEW	SHEET	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027000_DT.DWG
LAYOUT NAME - OVERVIEW

PLOT DATE : 12/20/2017 1:11 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 42

2

N

RIVER RD
BEND
FALLS RD
60
V
O
W
ULAO PKWY
SAUK RD
NORTHWOODS RD
33
32
LL
Q
C
ULAO RD
LAKESHORE
ARROWHEAD RD

SEE CONSTRUCTION DETAIL:
TWO LANE FULL FREEWAY CLOSURE

DETOUR
M4-8
24"X12"
NORTH
INTERSTATE 43

M6-1
21"X21"

A MO6-1 21"X21"
B MO6-1 21"X21"
C MO6-1 21"X21"
D MO5-1R 21"X21"
E MO5-1L 21"X21"
F MO5-2L 21"X21"
G MO5-2R 21"X21"

1 DETOUR AHEAD W20-2A
NORTH M3-1 24"X12"
INTERSTATE 43 M1-1 24"X24"

2 DETOUR M4-8 24"X12"
INTERSTATE 43 M1-1 24"X24"

3 DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
INTERSTATE 43 M1-1 24"X24"
57 M1-6 24"X24"

4 DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
INTERSTATE 43 M1-1 24"X24"

5 END DETOUR M4-8A 24"X18"
INTERSTATE 43 M1-1 24"X24"

10 DETOUR AHEAD W20-2A
INTERSTATE 43 M1-1 24"X24"
32 M1-6 24"X24"
COUNTY V M1-5A 24"X24"

11 DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
INTERSTATE 43 M1-1 24"X24"
32 M1-6 24"X24"
COUNTY V M1-5A 24"X24"

12 END DETOUR M4-8A 24"X18"
32 M1-6 24"X24"
COUNTY V M1-5A 24"X24"

13 DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
INTERSTATE 43 M1-1 24"X24"
32 M1-6 24"X24"
COUNTY V M1-5A 24"X24"

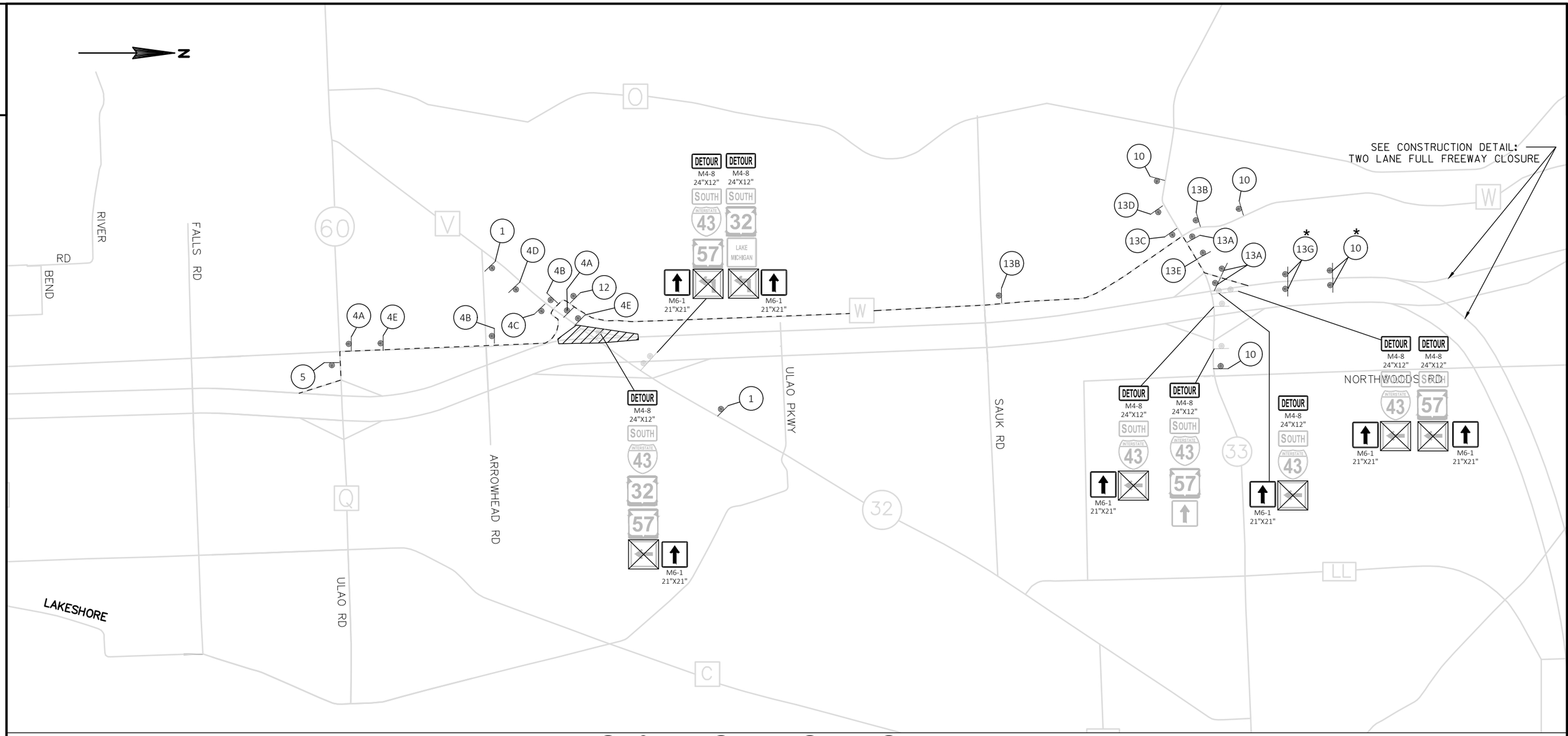
LEGEND

- SIGN ON POST
- EXISTING SIGN ON POST
- DETOUR ROUTE
- WORK ZONE
- COVER EXISTING SIGN

NOTE:
*SIZE 3

PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR NB 32/V RAMP CLOSURE	SHEET 165	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - RAMP 32-V NB
PLOT DATE : 12/21/2017 9:44 AM
PLOT BY : ORNER, THOMAS EDWIN
PLOT NAME :
PLOT SCALE : ############



A — M06-1 21"X21"
B — M06-1 21"X21"
C — M06-1 21"X21"
D — M05-1R 21"X21"
E — M05-1L 21"X21"
F — M05-2L 21"X21"
G — M05-2R 21"X21"

1 — DETOUR AHEAD W20-2A; SOUTH M3-3 24"X12"; INTERSTATE 43 M1-1 24"X24"

2 — DETOUR M4-8 24"X12"; INTERSTATE 43 M1-1 24"X24"

3 — DETOUR M4-8 24"X12"; NORTH M3-1 24"X12"; INTERSTATE 43 M1-1 24"X24"

4 — DETOUR M4-8 24"X12"; SOUTH M3-3 24"X12"; INTERSTATE 43 M1-1 24"X24"; 57 M1-6 24"X24"

5 — END DETOUR M4-8A 24"X18"; INTERSTATE 43 M1-1 24"X24"

10 — DETOUR AHEAD W20-2A; INTERSTATE 43 M1-1 24"X24"; 32 M1-6 24"X24"; COUNTY V M1-5A 24"X24"

11 — DETOUR M4-8 24"X12"; NORTH M3-1 24"X12"; INTERSTATE 43 M1-1 24"X24"; 32 M1-6 24"X24"; COUNTY V M1-5A 24"X24"

12 — END DETOUR M4-8A 24"X18"; 32 M1-6 24"X24"; COUNTY V M1-5A 24"X24"

13 — DETOUR M4-8 24"X12"; SOUTH M3-3 24"X12"; INTERSTATE 43 M1-1 24"X24"; 32 M1-6 24"X24"; COUNTY V M1-5A 24"X24"

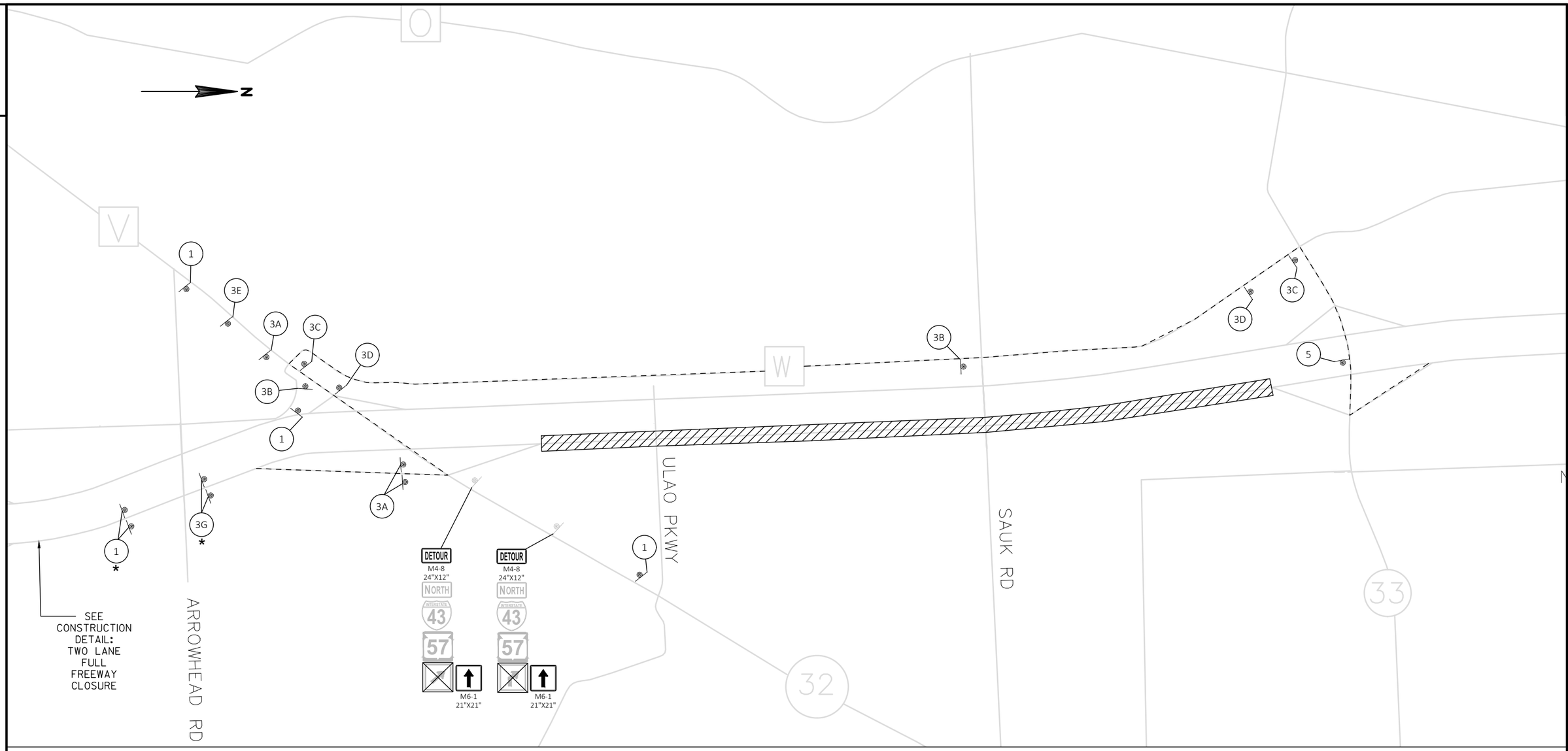
LEGEND

- SIGN ON POST
- EXISTING SIGN ON POST
- DETOUR ROUTE
- WORK ZONE
- COVER EXISTING SIGN

NOTE:
* SIZE 3

PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR SB 32/V RAMP CLOSURE	SHEET	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - RAMP 32-V SB
PLOT DATE : 12/21/2017 9:44 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : ############



A MO6-1 21"X21"
B MO6-1 21"X21"
C MO6-1 21"X21"
D MO5-1R 21"X21"
E MO5-1L 21"X21"
F MO5-2L 21"X21"
G MO5-2R 21"X21"

1 DETOUR AHEAD W20-2A
NORTH M3-1 24"X12"
INTERSTATE 43 M1-1 24"X24"

2 DETOUR M4-8 24"X12"
INTERSTATE 43 M1-1 24"X24"

3 DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
INTERSTATE 43 M1-1 24"X24"
57 M1-6 24"X24"

4 DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
INTERSTATE 43 M1-1 24"X24"

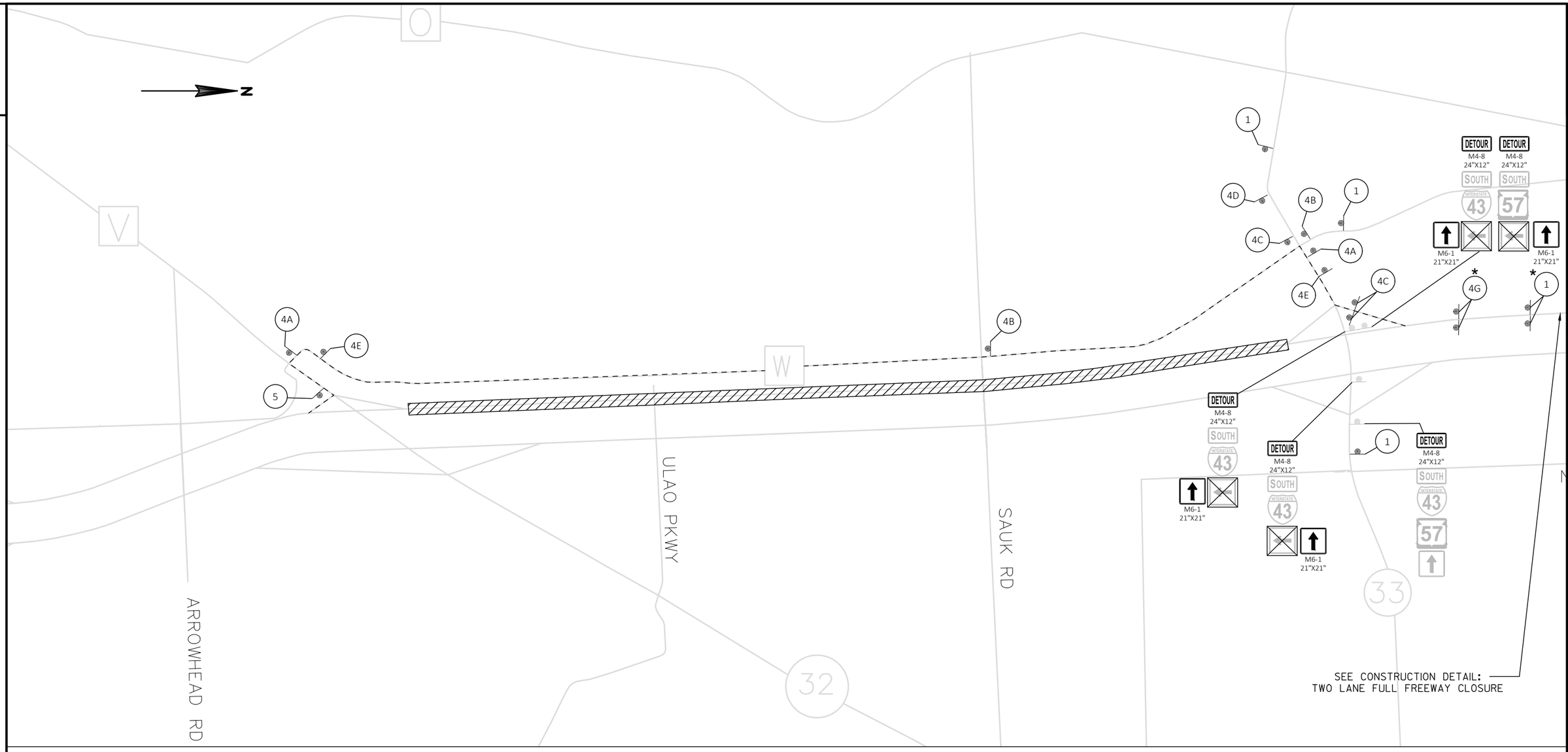
5 END DETOUR M4-8A 24"X18"
INTERSTATE 43 M1-1 24"X24"

LEGEND

- SIGN ON POST
- EXISTING SIGN ON POST
- DETOUR ROUTE
- WORK ZONE
- COVER EXISTING SIGN

NOTE:
*SIZE 3

PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR NB 32/V TO 33 FULL FWY CLOSURE	SHEET 167	E



A MO6-1 21"X21"
B MO6-1 21"X21"
C MO6-1 21"X21"
D MO5-1R 21"X21"
E MO5-1L 21"X21"
F MO5-2L 21"X21"
G MO5-2R 21"X21"

1 DETOUR AHEAD W20-2A; SOUTH M3-3 24"X12"; INTERSTATE 43 M1-1 24"X24"

2 DETOUR M4-8 24"X12"; INTERSTATE 43 M1-1 24"X24"

3 DETOUR M4-8 24"X12"; NORTH M3-1 24"X12"; INTERSTATE 43 M1-1 24"X24"

4 DETOUR M4-8 24"X12"; SOUTH M3-3 24"X12"; INTERSTATE 43 M1-1 24"X24"; 57 M1-6 24"X24"

5 END DETOUR M4-8A 24"X18"; INTERSTATE 43 M1-1 24"X24"

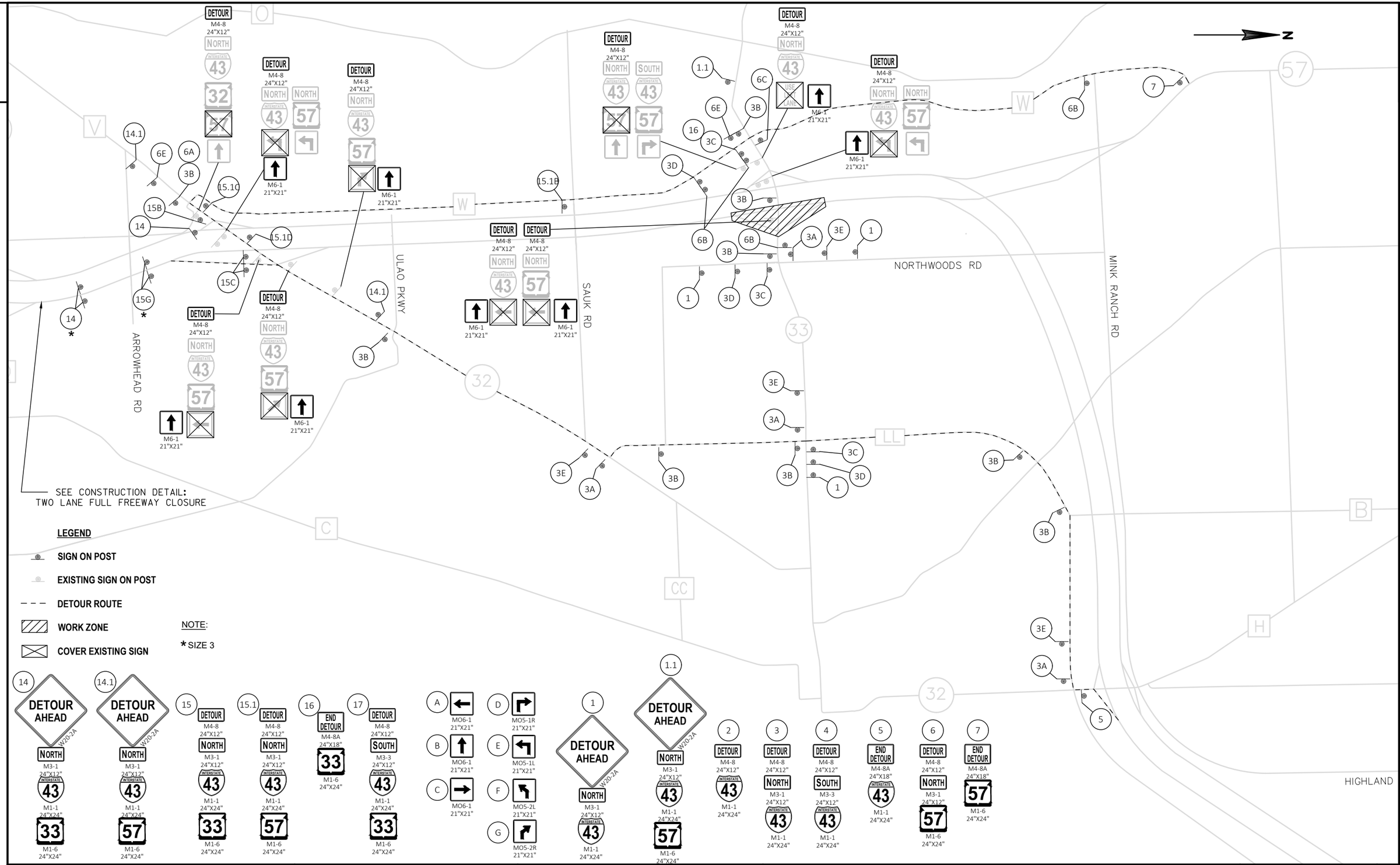
LEGEND

- SIGN ON POST
- EXISTING SIGN ON POST
- DETOUR ROUTE
- WORK ZONE
- COVER EXISTING SIGN

NOTE:

*SIZE 3

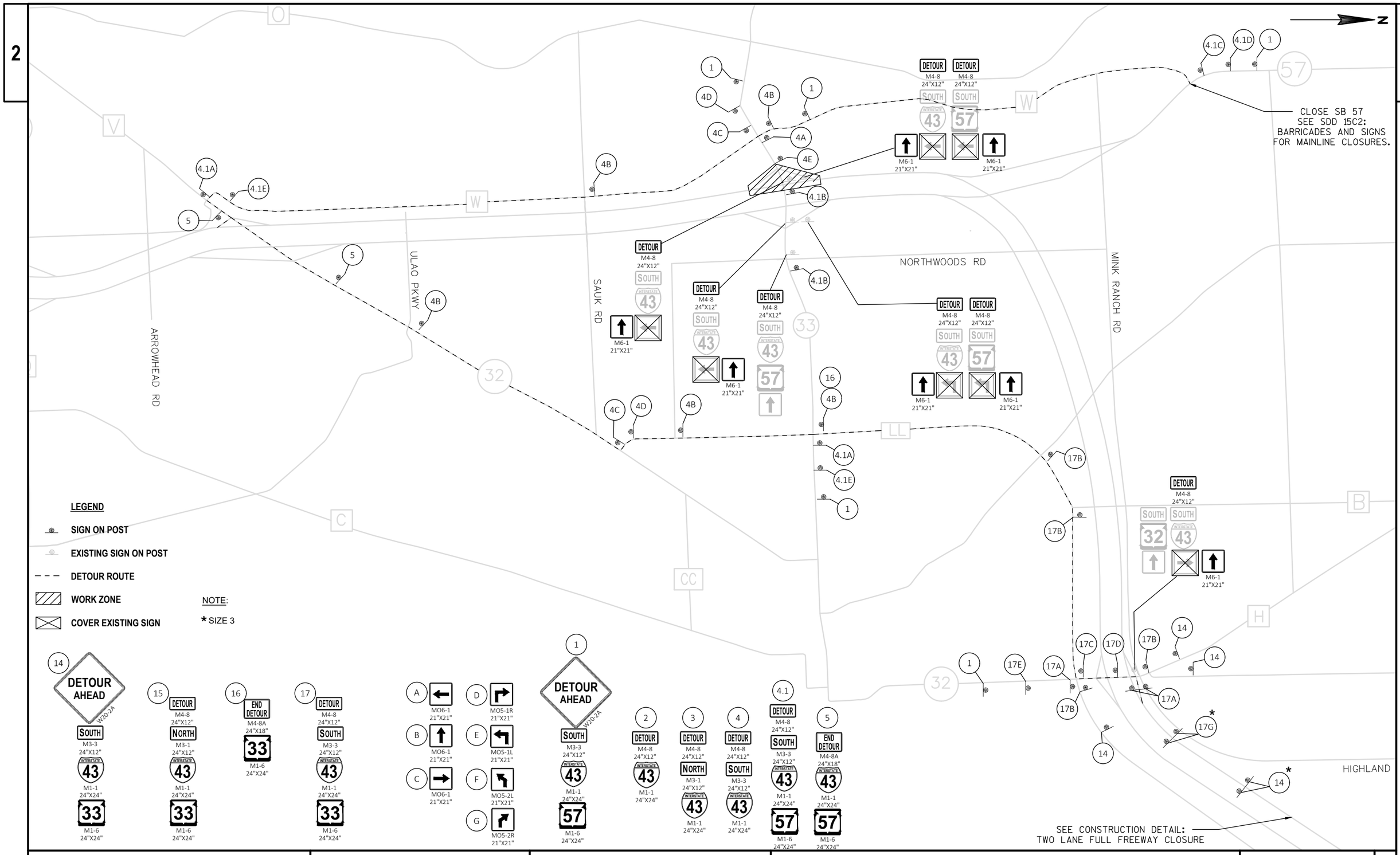
PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR SB 32/V TO 33 FULL FWY CLOSURE	SHEET 168	E



PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR NB 33 RAMP CLOSURE	SHEET 169 E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - RAMP 33 NB

PLOT DATE : 12/21/2017 9:44 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : ############

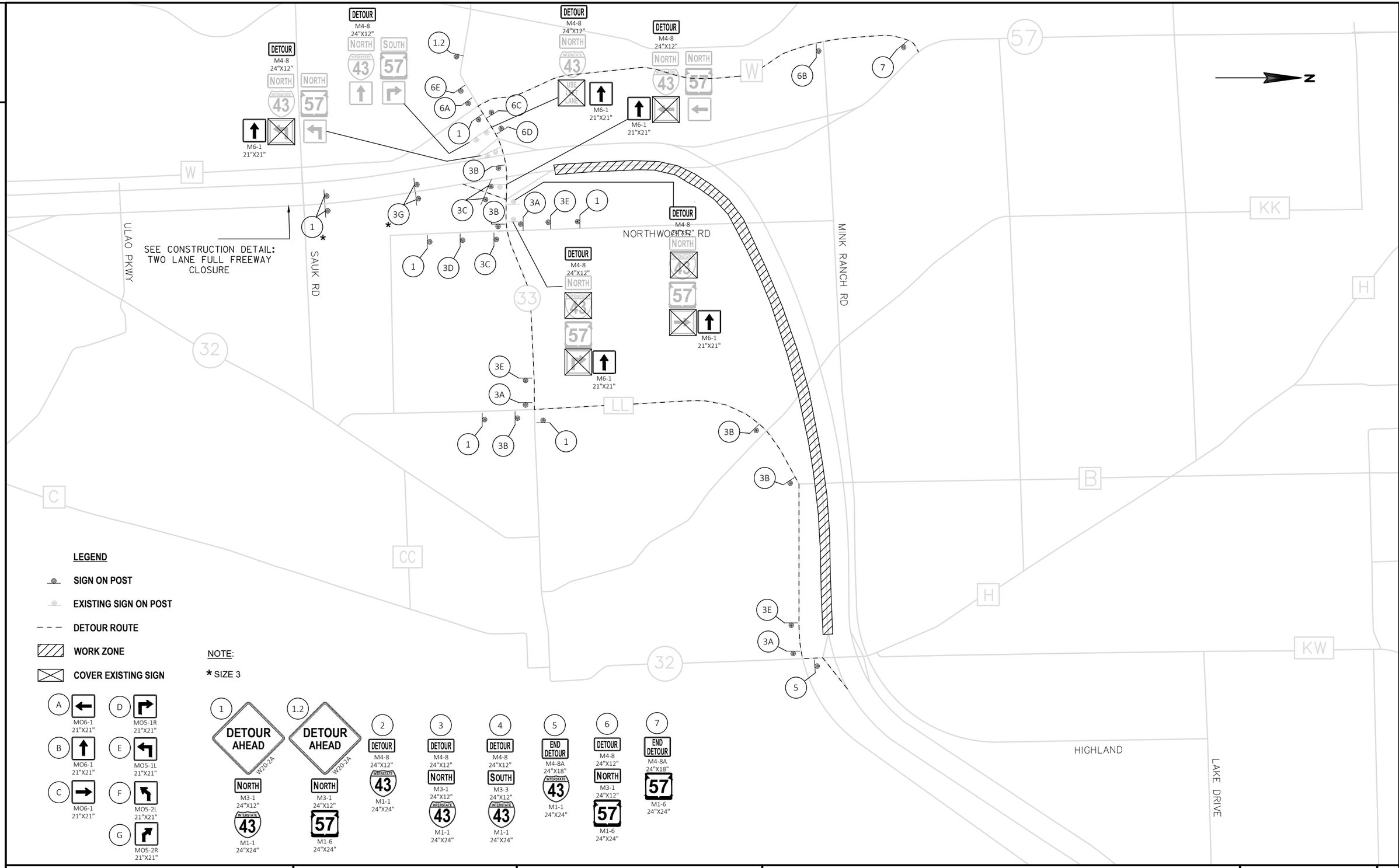


PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR SB 33 RAMP CLOSURE	SHEET 170	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - RAMP 33 SB

PLOT DATE : 12/21/2017 9:44 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : ############

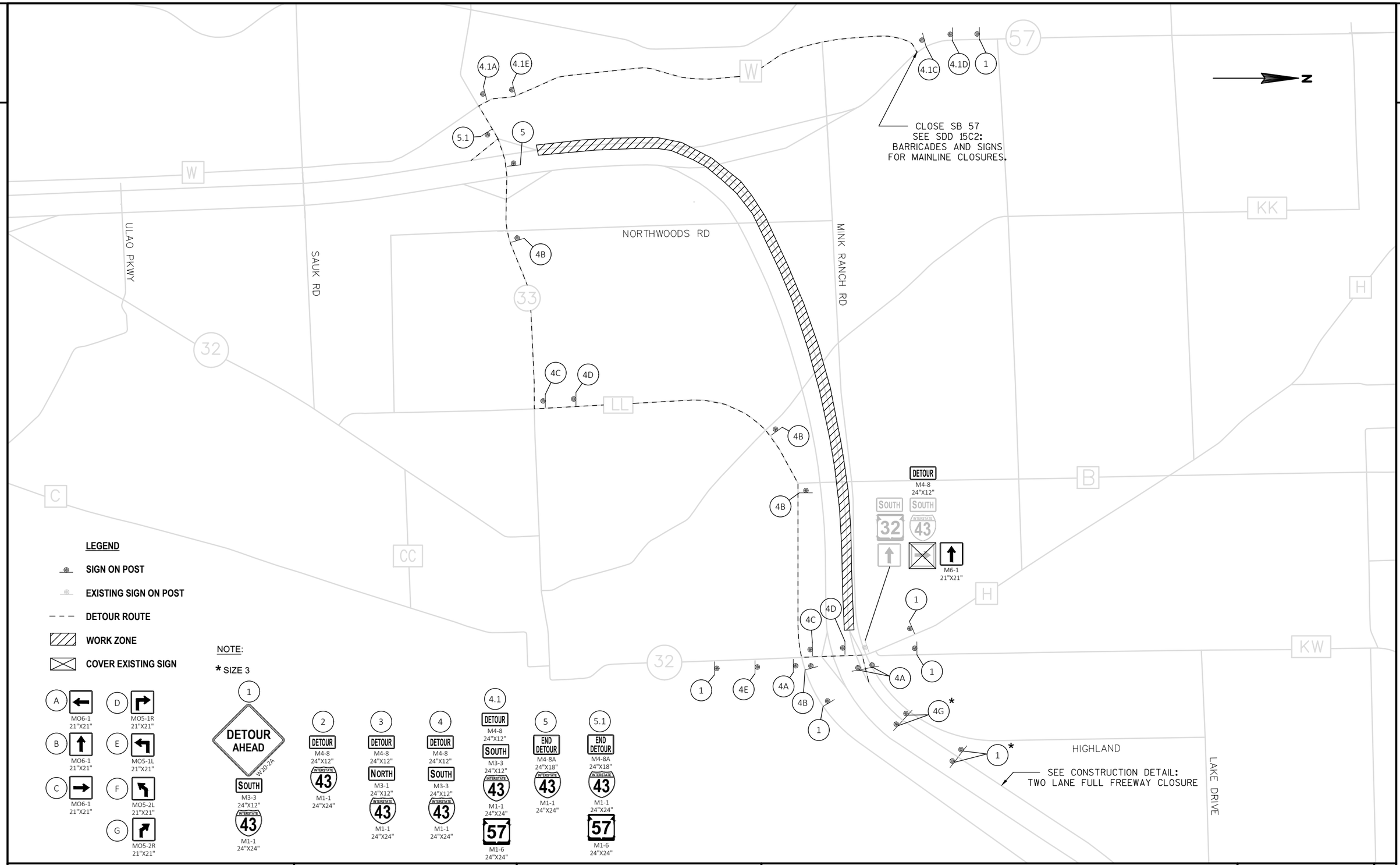
WISDOT/CADDS SHEET 42



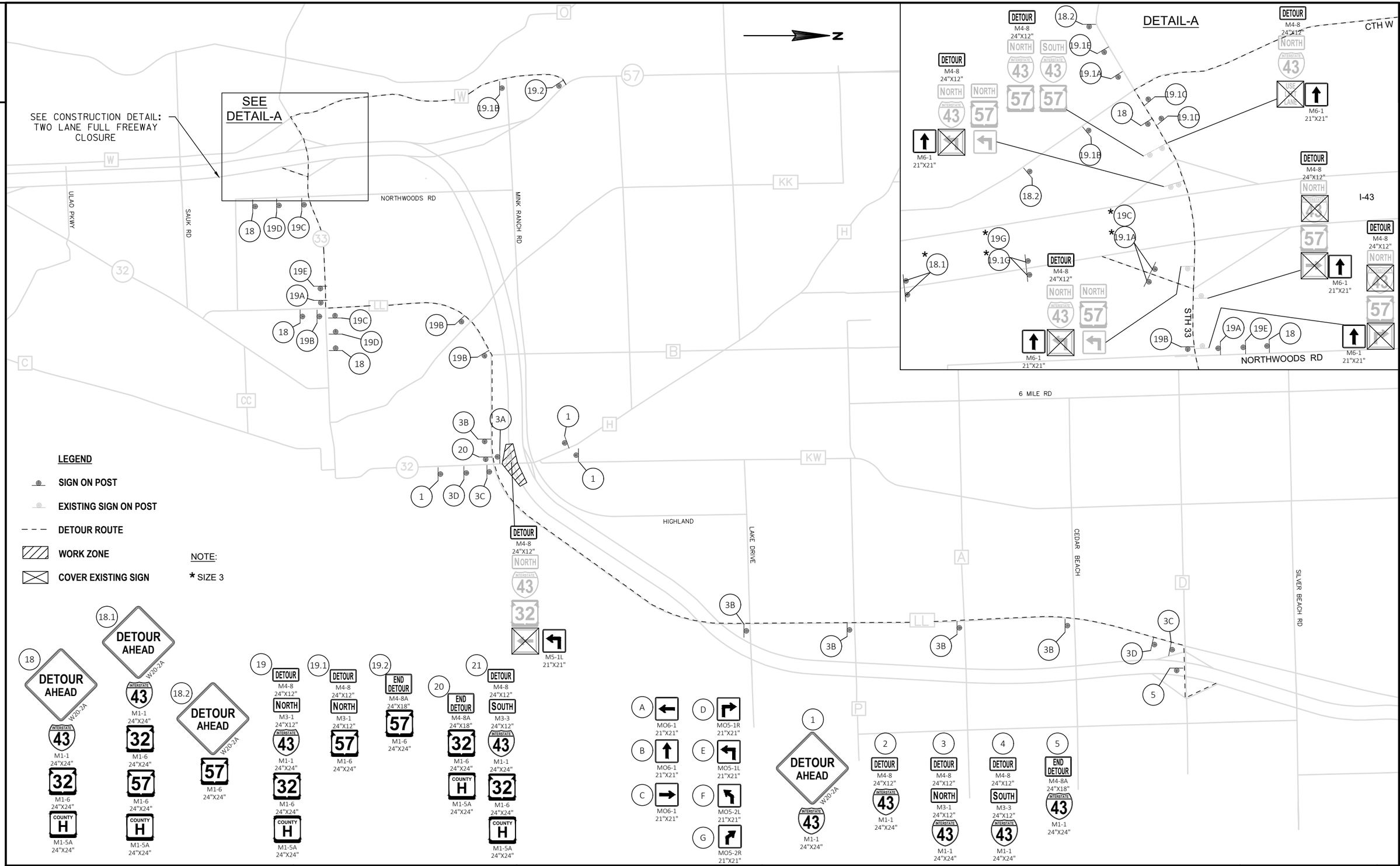
PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR NB 33 TO 32/H FULL FWY CLOSURE	SHEET 171	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - FULL 33-32 NB
PLOT DATE : 12/21/2017 9:44 AM
PLOT BY : ORNER, THOMAS EDWIN
PLOT NAME :
PLOT SCALE : ############
WISDOT/CADDS SHEET 42

2



PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR SB 33 TO 32/H FULL FWY CLOSURE	SHEET 172	E



PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR NB 32/H RAMP CLOSURE	SHEET 173 E

2

N

O
57
W
W
D
KK
A
H
B
C
CC
32
33
LL
P
KW
H
A
D
ULAO PKWY
SAUK RD
NORTHWOODS RD
MINK RANCH RD
6 MILE RD
HIGHLAND
LAKE DRIVE
CEDAR BEACH
SILVER BEACH RD

5
4B
4C
4D
4B
4B
4D
4C
1
1
4E
4A
20
4B
1
21B
21B
21B
21B
18
21D
21C
21B
21A
18
21C
18
21G
18
21B
18

DETOUR
M4-8
24"X12"
SOUTH
32
SOUTH
INTERSTATE
43
M6-1
21"X21"

18 DETOUR AHEAD W20-2A
M1-1 24"X24"
43
M1-6 24"X24"
32
M1-5A 24"X24"
COUNTY H

19 DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
43
32
COUNTY H

20 END DETOUR M4-8A 24"X18"
32
COUNTY H

21 DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
43
32
COUNTY H

A MO6-1 21"X21"
B MO6-1 21"X21"
C MO6-1 21"X21"
D MO5-1R 21"X21"
E MO5-1L 21"X21"
F MO5-2L 21"X21"
G MO5-2R 21"X21"

1 DETOUR AHEAD W20-2A
SOUTH M3-3 24"X12"
43
M1-1 24"X24"

2 DETOUR M4-8 24"X12"
43
M1-1 24"X24"

3 DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
43
M1-1 24"X24"

4 DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
43
M1-1 24"X24"

5 END DETOUR M4-8A 24"X18"
43
M1-1 24"X24"

DETOUR
M4-8
24"X12"
SOUTH
INTERSTATE
43
32
M5-1L
21"X21"

LEGEND

- SIGN ON POST
- EXISTING SIGN ON POST
- DETOUR ROUTE
- WORK ZONE
- COVER EXISTING SIGN

NOTE:
* SIZE 3

SEE CONSTRUCTION DETAIL:
TWO LANE FULL FREEWAY CLOSURE

PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR SB 32/H RAMP CLOSURE	SHEET 174	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - RAMP 32-H SB
PLOT DATE : 12/21/2017 9:44 AM
PLOT BY : ORNER, THOMAS EDWIN
PLOT NAME :
PLOT SCALE : ############
WISDOT/CADDS SHEET 42

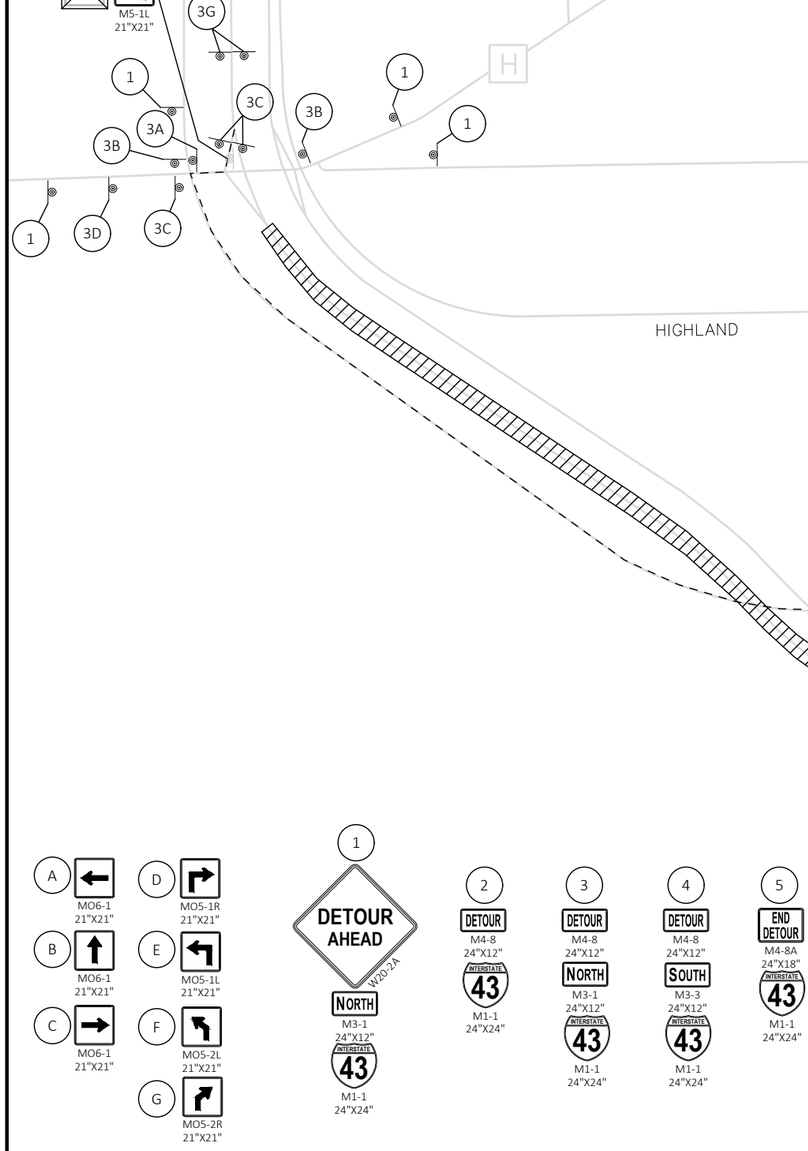
SEE CONSTRUCTION DETAIL: TWO LANE FULL FREEWAY CLOSURE

DETOUR
M4-8
24"X12"
NORTH
INTERSTATE 43
32

M5-1L
21"X21"

B
H
KW
6 MILE RD
HIGHLAND
LAKE DRIVE
A
CEDAR BEACH
D
LL
P

1 3G 3A 3B 3C 3D



LEGEND

- SIGN ON POST
- EXISTING SIGN ON POST
- DETOUR ROUTE
- WORK ZONE
- COVER EXISTING SIGN

NOTE:
* SIZE 3

PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR NB 32/H TO D FULL FWY CLOSURE	SHEET 175	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - FULL 32-D NB

PLOT DATE : 12/21/2017 9:44 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : ############

2

N

B

H

KW

6 MILE RD

HIGHLAND

LAKE DRIVE

A

CEDAR BEACH

LL

P

5

4C

4D

4B

4B

4B

4B

D

1

4D

4C

4A

4B

1

4B

4C

4G

*

DETOUR
M4-8
24"X12"
SOUTH
INTERSTATE
43
32
M5-1L
21"X21"

1

*

SEE CONSTRUCTION DETAIL:
TWO LANE FULL FREEWAY CLOSURE

A MO6-1 21"X21"

B MO6-1 21"X21"

C MO6-1 21"X21"

D MO5-1R 21"X21"

E MO5-1L 21"X21"

F MO5-2L 21"X21"

G MO5-2R 21"X21"

1 DETOUR AHEAD W20-2A
SOUTH
M3-3
24"X12"
INTERSTATE 43
M1-1
24"X24"

2 DETOUR
M4-8
24"X12"
INTERSTATE 43
M1-1
24"X24"

3 DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
INTERSTATE 43
M1-1
24"X24"

4 DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
INTERSTATE 43
M1-1
24"X24"

5 END DETOUR
M4-8A
24"X18"
INTERSTATE 43
M1-1
24"X24"

LEGEND

- SIGN ON POST
- EXISTING SIGN ON POST
- DETOUR ROUTE
- WORK ZONE
- COVER EXISTING SIGN

NOTE:

* SIZE 3

PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR SB 32/H TO D FULL FWY CLOSURE	SHEET 176	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - FULL 32-D SB

PLOT DATE : 12/21/2017 9:44 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : ############

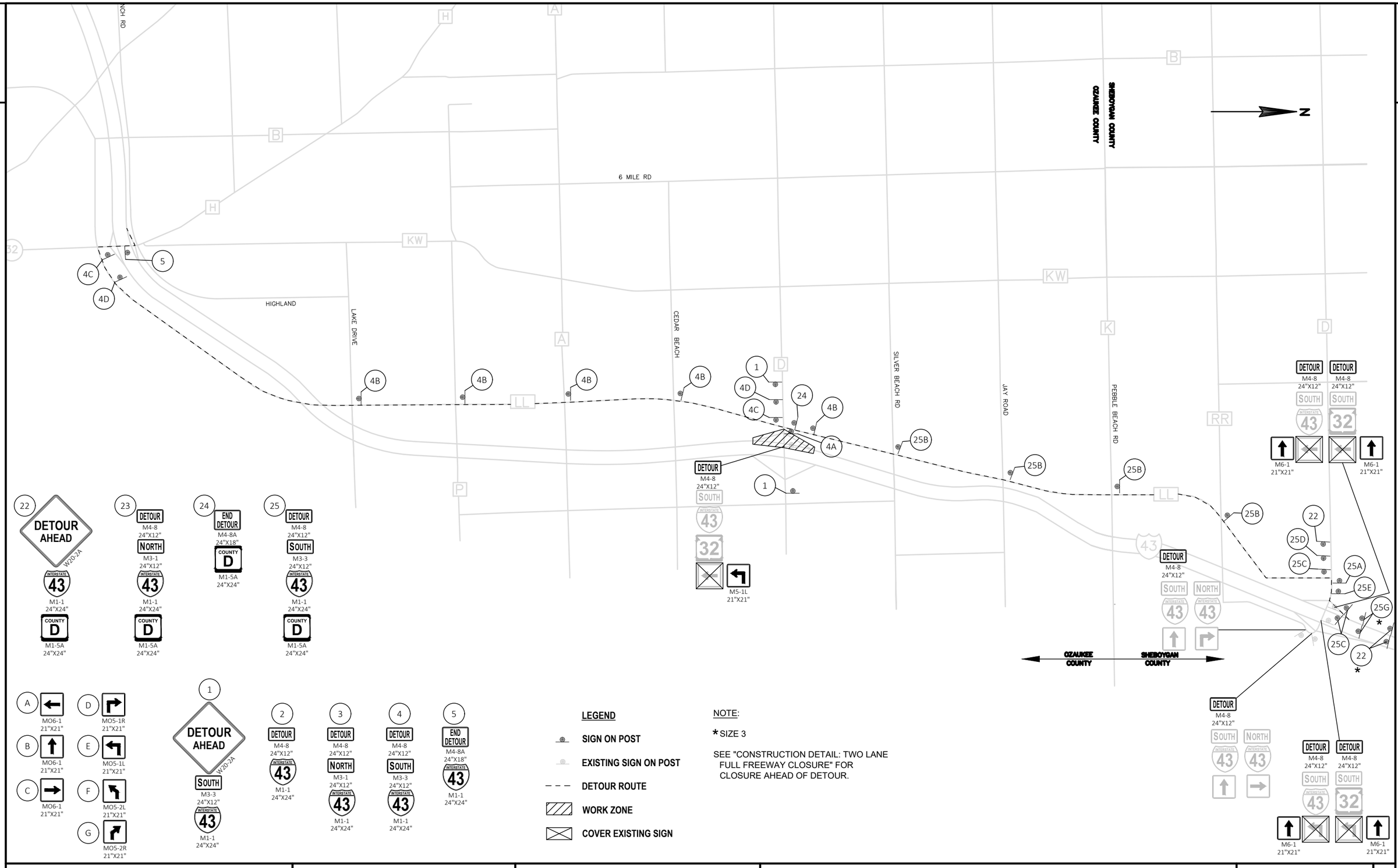
WISDOT/CADDS SHEET 42



PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR NB D RAMP CLOSURE	SHEET 177	E

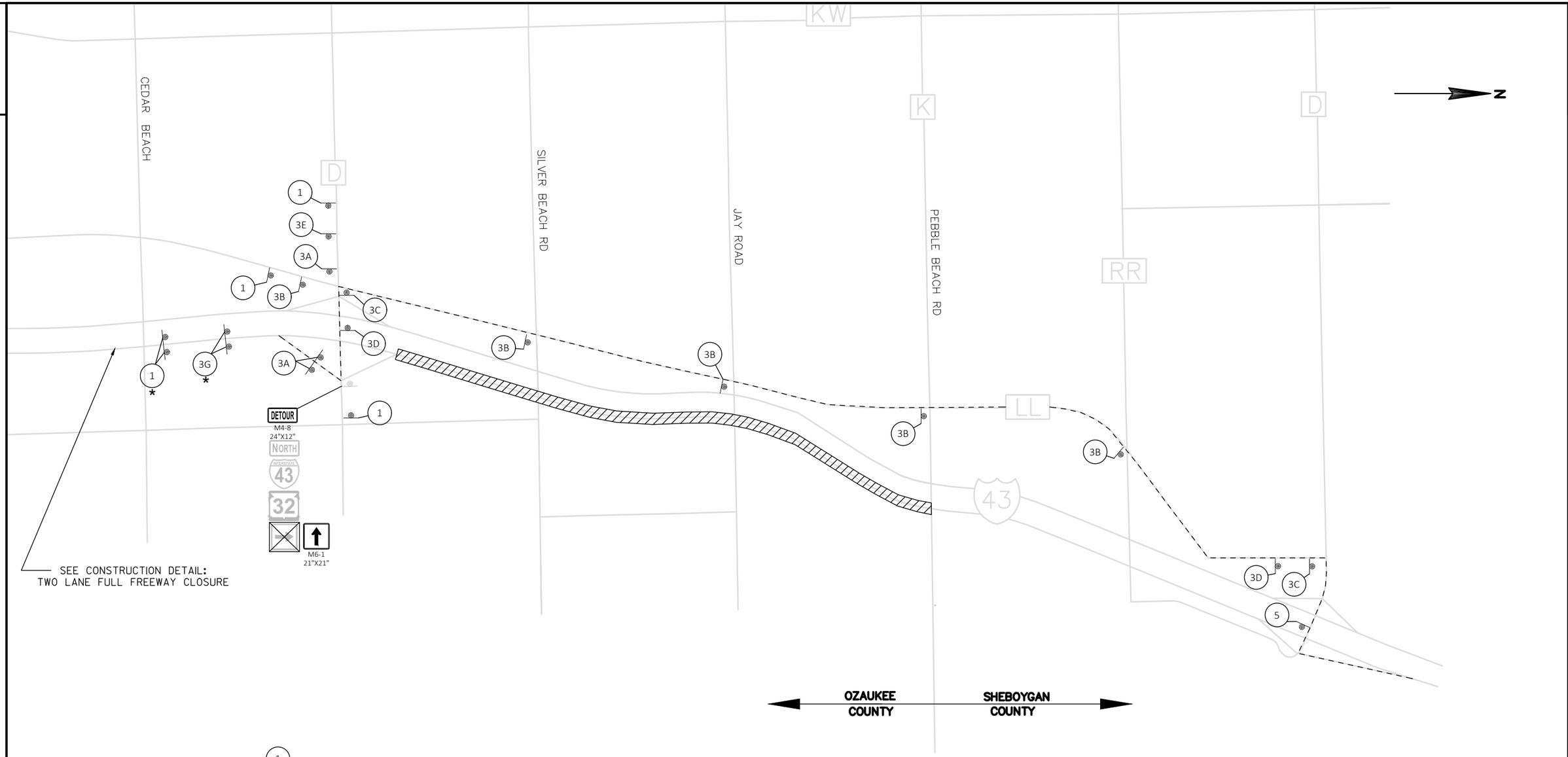
FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - RAMP D NB

PLOT DATE : 12/21/2017 9:44 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : ############



PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR SB D RAMP CLOSURE	SHEET 178 E

2



A MO6-1 21"X21"
B MO6-1 21"X21"
C MO6-1 21"X21"
D MO5-1R 21"X21"
E MO5-1L 21"X21"
F MO5-2L 21"X21"
G MO5-2R 21"X21"

1 DETOUR AHEAD W20-2A
NORTH M3-1 24"X12"
INTERSTATE 43 M1-1 24"X24"

2 DETOUR M4-8 24"X12"
INTERSTATE 43 M1-1 24"X24"

3 DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
INTERSTATE 43 M1-1 24"X24"

4 DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
INTERSTATE 43 M1-1 24"X24"

5 END DETOUR M4-8A 24"X18"
INTERSTATE 43 M1-1 24"X24"

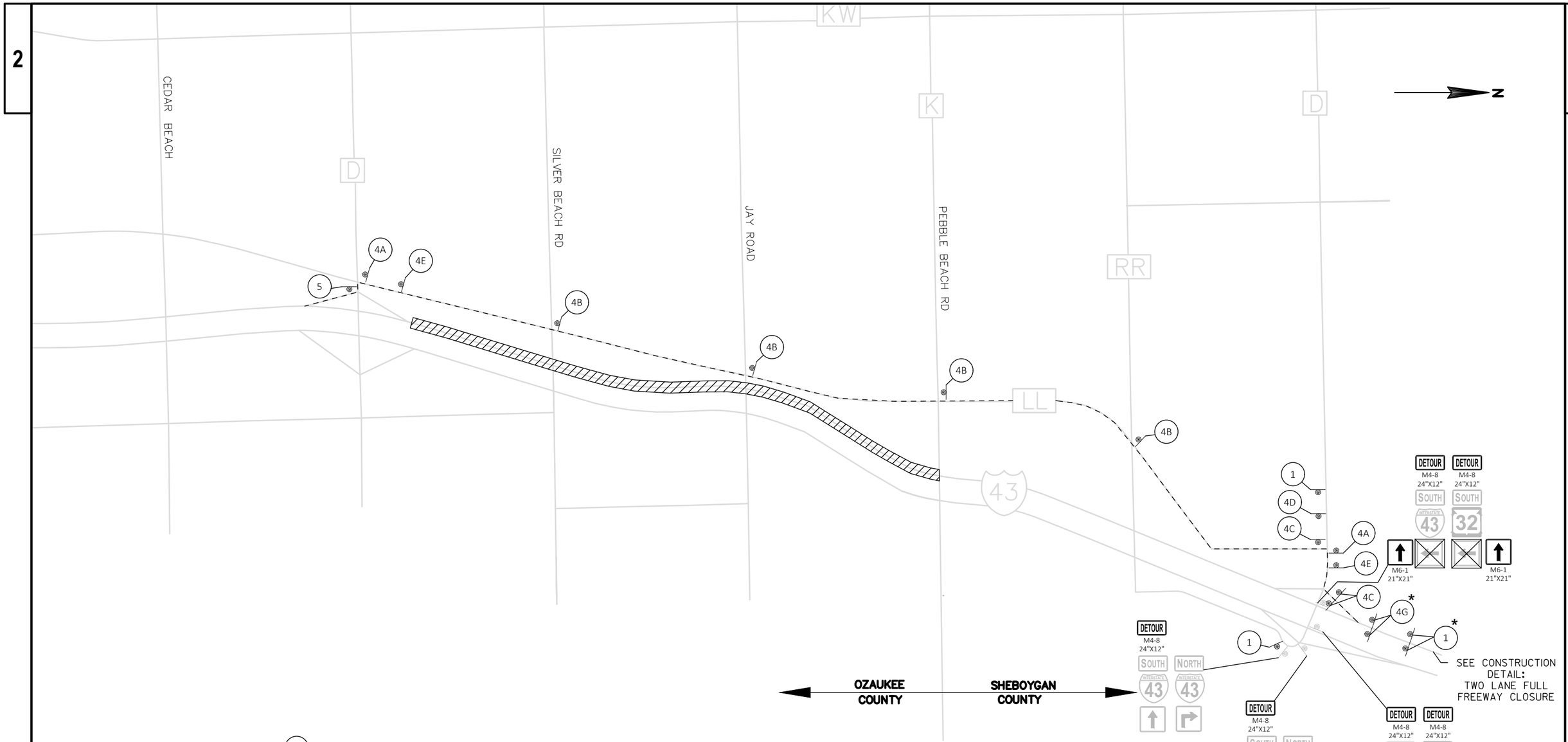
LEGEND

- SIGN ON POST
- EXISTING SIGN ON POST
- DETOUR ROUTE
- WORK ZONE
- COVER EXISTING SIGN

NOTE:
* SIZE 3

PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR NB D TO COUNTY LINE FULL FWY CLOSURE	SHEET 179	E

FILE NAME : N:\PDS\C3D\12290500\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - FULL D-END NB
PLOT DATE : 12/21/2017 9:44 AM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : ############
WISDOT/CADDS SHEET 42



PROJECT NO: 1229-05-00	HWY: I-43	COUNTY: OZAUKEE	TRAFFIC CONTROL: DETOUR FOR SB D TO COUNTY LINE FULL FWY CLOSURE	SHEET 180	E

1229-05-70

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0004	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
0006	204.0115	Removing Asphaltic Surface Butt Joints	SY	7,195.000	7,195.000
0008	204.0120	Removing Asphaltic Surface Milling	SY	171,968.000	171,968.000
0010	204.0165	Removing Guardrail	LF	391.000	391.000
0012	204.0180	Removing Delineators and Markers	EACH	517.000	517.000
0014	205.0100	Excavation Common **P**	CY	2,978.000	2,978.000
0016	208.0100	Borrow **P**	CY	166.000	166.000
0018	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	1,220.000	1,220.000
0020	213.0100	Finishing Roadway (project) 01. 1229-05-70	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	608.000	608.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	7,209.000	7,209.000
0026	310.0110	Base Aggregate Open-Graded	TON	28.000	28.000
0028	416.1715	Concrete Pavement Repair SHES	SY	135.000	135.000
0030	416.1725	Concrete Pavement Replacement SHES	SY	4,327.000	4,327.000
0032	420.1000	Continuous Diamond Grinding Concrete Pavement	SY	510,886.000	510,886.000
0034	440.4410	Incentive IRI Ride	DOL	150,000.000	150,000.000
0036	455.0605	Tack Coat	GAL	7,005.000	7,005.000
0038	460.2000	Incentive Density HMA Pavement	DOL	21,760.000	21,760.000
0040	460.5223	HMA Pavement 3 LT 58-28 S	TON	31,749.000	31,749.000
0042	460.7224	HMA Pavement 4 HT 58-28 S	TON	737.000	737.000
0044	465.0105	Asphaltic Surface	TON	1,511.000	1,511.000
0046	465.0400	Asphaltic Shoulder Rumble Strips	LF	364,844.000	364,844.000
0048	521.1618	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	EACH	2.000	2.000
0050	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	141.000	141.000
0052	606.0200	Riprap Medium	CY	7.500	7.500
0054	612.0104	Pipe Underdrain 4-Inch	LF	1,109.000	1,109.000
0056	612.0204	Pipe Underdrain Unperforated 4-Inch	LF	173.000	173.000
0058	612.0804	Apron Endwalls for Underdrain Reinforced Concrete 4-Inch	EACH	4.000	4.000
0060	614.0396	Guardrail Mow Strip Asphalt	SY	218.000	218.000
0062	614.0950	Replacing Guardrail Posts and Blocks	EACH	365.000	365.000
0064	614.0951	Replacing Guardrail Rail and Hardware	LF	13,292.000	13,292.000
0066	614.2300	MGS Guardrail 3	LF	391.000	391.000
0068	614.2610	MGS Guardrail Terminal EAT	EACH	1.000	1.000
0070	614.2620	MGS Guardrail Terminal Type 2	EACH	1.000	1.000
0072	619.1000	Mobilization	EACH	1.000	1.000
0074	624.0100	Water	MGAL	240.000	240.000
0076	625.0500	Salvaged Topsoil	SY	8,190.000	8,190.000

1229-05-70

Line	Item	Item Description	Unit	Total	Qty
0078	628.1504	Silt Fence	LF	4,425.000	4,425.000
0080	628.1520	Silt Fence Maintenance	LF	4,425.000	4,425.000
0082	628.1905	Mobilizations Erosion Control	EACH	10.000	10.000
0084	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0086	628.2004	Erosion Mat Class I Type B	SY	10,238.000	10,238.000
0088	628.7005	Inlet Protection Type A	EACH	15.000	15.000
0090	628.7504	Temporary Ditch Checks	LF	322.000	322.000
0092	628.7555	Culvert Pipe Checks	EACH	3.000	3.000
0094	629.0210	Fertilizer Type B	CWT	643.000	643.000
0096	630.0130	Seeding Mixture No. 30	LB	184.000	184.000
0098	633.0100	Delineator Posts Steel	EACH	103.000	103.000
0100	633.0200	Delineators Flexible	EACH	487.000	487.000
0102	633.0500	Delineator Reflectors	EACH	179.000	179.000
0104	633.1000	Delineator Brackets	EACH	197.000	197.000
0106	633.5200	Markers Culvert End	EACH	2.000	2.000
0108	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	296.000	296.000
0110	635.0200	Sign Supports Structural Steel HS	LB	5,600.000	5,600.000
0112	635.0300	Sign Supports Replacing Base Connection Bolts	EACH	46.000	46.000
0114	636.0100	Sign Supports Concrete Masonry	CY	9.200	9.200
0116	636.0500	Sign Supports Steel Reinforcement	LB	558.000	558.000
0118	637.1220	Signs Type I Reflective SH	SF	7,446.500	7,446.500
0120	637.2210	Signs Type II Reflective H	SF	2,661.060	2,661.060
0122	637.2215	Signs Type II Reflective H Folding	SF	29.840	29.840
0124	637.2230	Signs Type II Reflective F	SF	588.500	588.500
0126	638.2101	Moving Signs Type I	EACH	1.000	1.000
0128	638.2102	Moving Signs Type II	EACH	13.000	13.000
0130	638.2601	Removing Signs Type I	EACH	37.000	37.000
0132	638.2602	Removing Signs Type II	EACH	227.000	227.000
0134	638.3000	Removing Small Sign Supports	EACH	247.000	247.000
0136	638.3100	Removing Structural Steel Sign Supports	EACH	14.000	14.000
0138	643.0300	Traffic Control Drums	DAY	18,198.000	18,198.000
0140	643.0420	Traffic Control Barricades Type III	DAY	1,994.000	1,994.000
0142	643.0705	Traffic Control Warning Lights Type A	DAY	3,824.000	3,824.000
0144	643.0715	Traffic Control Warning Lights Type C	DAY	4,168.000	4,168.000
0146	643.0800	Traffic Control Arrow Boards	DAY	308.000	308.000
0148	643.0900	Traffic Control Signs	DAY	8,532.000	8,532.000
0150	643.0910	Traffic Control Covering Signs Type I	EACH	25.000	25.000
0152	643.0920	Traffic Control Covering Signs Type II	EACH	14.000	14.000
0154	643.1000	Traffic Control Signs Fixed Message	SF	384.000	384.000
0156	643.1051	Traffic Control Signs PCMS with Cellular	DAY	72.000	72.000

1229-05-70

Line	Item	Item Description	Unit	Total	Qty
		Communications			
0158	643.1070	Traffic Control Cones 42-Inch	DAY	47,488.000	47,488.000
0160	643.4100.S	Traffic Control Interim Lane Closure 01. 1229-05-70	EACH	112.000	112.000
0162	643.5000	Traffic Control	EACH	1.000	1.000
0164	645.0111	Geotextile Type DF Schedule A	SY	370.000	370.000
0166	645.0120	Geotextile Type HR	SY	28.000	28.000
0168	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	405,328.000	405,328.000
0170	646.1555	Marking Line Grooved Contrast Permanent Tape 4-Inch	LF	195,194.000	195,194.000
0172	646.3555	Marking Line Grooved Contrast Permanent Tape 8-Inch	LF	24,985.000	24,985.000
0174	646.4505	Marking Line Same Day Paint 4-Inch	LF	191,348.000	191,348.000
0176	646.5020	Marking Arrow Epoxy	EACH	33.000	33.000
0178	646.5120	Marking Word Epoxy	EACH	12.000	12.000
0180	646.5420	Marking Aerial Enforcement Bar Epoxy	EACH	10.000	10.000
0182	646.5520	Marking Outfall Epoxy	EACH	729.000	729.000
0184	646.6120	Marking Stop Line Epoxy 18-Inch	LF	325.000	325.000
0186	646.7220	Marking Chevron Epoxy 24-Inch	LF	1,768.000	1,768.000
0188	646.9400	Marking Removal Plowable Raised Pavement Markers	EACH	2,068.000	2,068.000
0190	650.4500	Construction Staking Subgrade	LF	2,425.000	2,425.000
0192	650.5000	Construction Staking Base	LF	2,425.000	2,425.000
0194	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0196	650.8000	Construction Staking Resurfacing Reference	LF	132,000.000	132,000.000
0198	650.9910	Construction Staking Supplemental Control (project) 01. 1229-05-70	LS	1.000	1.000
0200	690.0150	Sawing Asphalt	LF	224.000	224.000
0202	690.0250	Sawing Concrete	LF	3,599.000	3,599.000
0204	SPV.0060	Special 01. FIELD FACILITIES OFFICE SPACE	EACH	1.000	1.000
0206	SPV.0085	Special 01. Sealing Cracks and Joints with Hot-Applied Sealant	LB	251,550.000	251,550.000
0208	SPV.0180	Special 01. RESIN BINDER HIGH FRICTION SURFACE TREATMENT	SY	18,640.000	18,640.000

ASPHALT ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	455.0605 TACK COAT GAL	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.7224 HMA PAVEMENT 4 HT 58-28 S TON	465.0400 * ASPHALTIC SHOULDER RUMBLE STRIPS LF	REMARKS
0010	829+70	-	200+00	SB BEGIN PROJECT TO S OF STH 33	293	24281	169	18	--	6171	26	33620	
0010	200+01	-	435+00	SB S OF STH 33 TO W OF STH 32	1398	21748	154	619	--	4484	166	42347	
0010	435+01	-	620+00	SB W OF STH 32 TO N OF LAKE DR	930	14542	106	717	--	2411	83	35370	
0010	620+01	-	825+00	SB N OF LAKE DR TO N OF CTH D	595	16747	133	775	--	2847	53	41000	
0010	825+01	-	977+29.01	SB N OF CTH D TO END PROJECT	1121	13317	0	867	--	1571	101	29964	
0010	829+70	-	200+00	NB BEGIN PROJECT TO S OF STH 33	0	13075	169	785	--	2645	0	33620	
0010	200+01	-	435+00	NB S OF STH 33 TO W OF STH 32	853	16769	152	754	--	2973	128	41521	
0010	435+01	-	620+00	NB W OF STH 32 TO N OF LAKE DR	880	14820	78	786	--	2259	79	35292	
0010	620+01	-	825+00	NB N OF LAKE DR TO N OF CTH D	631	16729	135	773	--	2855	57	41000	
0010	825+01	-	977+29.01	NB N OF CTH D TO END PROJECT	494	13334	0	830	--	1573	44	30002	
0010	62+30	-	83+00	STH32/CTH V NB ON RAMP-RT	--	1150	21	--	--	272	--	--	
0010	60+63	-	70+50	STH32/CTH V NB ON RAMP-LT	--	548	10	--	--	130	--	--	
0010	202+10	-	219+30	STH 33 NB OFF RAMP-RT	--	956	18	--	--	226	--	--	
0010	211+50	-	219+60	STH 33 NB OFF RAMP-LT	--	450	9	--	--	106	--	--	
0010	221+00	-	231+50	STH 33 NB ON RAMP-RT	--	583	11	--	--	138	--	--	
0010	221+00	-	229+00	STH 33 NB ON RAMP-LT	--	444	8	--	--	105	--	--	
0010	220+70	-	228+15	STH 33 SB OFF RAMP-RT	--	414	8	--	--	98	--	--	
0010	220+70	-	238+00	STH 33 SB OFF RAMP-LT	--	961	18	--	--	227	--	--	
0010	210+70	-	219+00	STH 33 SB ON RAMP-RT	--	461	9	--	--	109	--	--	
0010	207+50	-	219+00	STH 33 SB ON RAMP-LT	--	639	12	--	--	151	--	--	
0010				Law Enforcement Pad	--	--	--	81	--	398	--	1108	
0010				PROJECT	--	--	--	--	21760	--	--	--	
				TOTAL 0010	7195	171968	1220	7005	21760	31749	737	364844	

*NO RUMBLE STRIPS IN BRIDGE APPROACH AREAS

SPECIAL(SEALING CRACKS AND JOINTS WITH HOT-APPLIED SEALANT)

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0085.01 SPECIAL(SEALING CRACKS AND JOINTS WITH HOT-APPLIED SEALANT) LB	REMARKS
0010				IH 43 NB & SB	228682	MAINLINE TRANSVERSE AND LONGITUDINAL JOINTS
0010						
0010				UNDISTRIBUTED	22868	
				TOTAL 0010	251550	

CONCRETE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	420.1000 CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT SY	440.4410 INCENTIVE IRI RIDE DOL	646.9400 MARKING REMOVAL PLOWABLE RAISED PAVEMENT MARKERS EACH	690.0250 SAWING CONCRETE LF	REMARKS
0010	829+70	-	200+00	SB BEGIN PROJECT TO S OF STH 33	0	438	57383	--	202	432	
0010	200+01	-	435+00	SB S OF STH 33 TO W OF STH 32	48	549	62162	--	264	780	
0010	435+01	-	620+00	SB W OF STH 32 TO N OF LAKE DR	0	561	35514	--	134	309	
0010	620+01	-	825+00	SB N OF LAKE DR TO N OF CTH D	36	135	56674	--	235	155	
0010	825+01	-	977+29.01	SB N OF CTH D TO END PROJECT	16	261	44667	--	186	217	
0010	829+70	-	200+00	NB BEGIN PROJECT TO S OF STH 33	0	329	51624	--	222	24	
0010	200+01	-	435+00	NB S OF STH 33 TO W OF STH 32	0	452	62649	--	300	614	
0010	435+01	-	620+00	NB W OF STH 32 TO N OF LAKE DR	0	225	37858	--	134	182	
0010	620+01	-	825+00	NB N OF LAKE DR TO N OF CTH D	0	631	56870	--	230	608	
0010	825+01	-	977+29.01	NB N OF CTH D TO END PROJECT	20	346	45485	--	161	278	
0010				PROJECT	--	--	--	150000	--	--	
0010				Undistributed	15	400					
				TOTAL 0010	135	4327	510886	150000	2068	3599	

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 * CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) LS	REMARKS
0010				Project	--	--	--	--	1	
0010				I-43 NB	--	--	--	66000	--	
0010				I-43 SB	--	--	--	66000	--	
0010			885+50	Crossover #1	90	90	--	--	--	
0010			138+50	Crossover #2	90	90	--	--	--	
0010			185+50	Crossover #3	90	90	--	--	--	
0010			238+00	Crossover #4	155	155	1	--	--	
0010			341+00	Crossover #5	90	90	--	--	--	
0010			416+00	Crossover #6	--	--	--	--	--	NO WORK AT CROSSOVER #6
0010			445+00	Crossover #7	90	90	--	--	--	
0010			492+25	Crossover #8	90	90	--	--	--	
0010			584+00	Crossover #9	90	90	--	--	--	
0010			669+50	Crossover #10	90	90	--	--	--	
0010			725+00	Crossover #11	90	90	--	--	--	
0010			776+50	Crossover #12	90	90	--	--	--	
0010			850+00	Crossover #13	90	90	--	--	--	
0010			896+50	Crossover #14	90	90	--	--	--	
0010			970+50	Crossover #15	90	90	--	--	--	
0010				Law Enforcement Pad	1100	1100	--	--	--	
				TOTAL 0010	2425	2425	1	132000	1	

* INTERVALS AT 500'

3

DELINEATORS

CATEGORY	STATION	TO	STATION	LOCATION	204.0180 REMOVING DELINEATORS AND MARKERS EACH	633.0100 DELINEATOR POSTS STEEL EACH	633.0200 DELINEATORS FLEXIBLE EACH	633.0500 DELINEATOR REFLECTORS EACH	633.1000 DELINEATOR BRACKETS EACH	REMARKS
0010				UNDISTRIBUTED NB	--	24	--	36	81	
0010				UNDISTRIBUTED SB	--	49	--	61	94	
0010				CROSSOVERS	30	30	--	60	--	
0010				STH 32/CTH V NB ON-RAMP	27	--	27	6	6	
0010				STH 32/CTH V NB OFF-RAMP	40	--	40	10	10	
0010				STH 32/CTH V SB ON-RAMP	35	--	35	--	--	
0010				STH 32/CTH V SB OFF-RAMP	35	--	35	6	6	
0010				STH 33 NB ON-RAMP	23	--	23	--	--	
0010				STH 33 NB OFF-RAMP	23	--	23	--	--	
0010				STH 33 SB ON-RAMP	29	--	29	--	--	
0010				STH 33 SB OFF-RAMP	22	--	22	--	--	
0010				STH 32/CTH H NB ON-RAMP	39	--	39	--	--	
0010				STH 32/CTH H NB OFF-RAMP	27	--	27	--	--	
0010				STH 32/CTH H SB ON-RAMP	29	--	29	--	--	
0010				STH 32/CTH H SB OFF-RAMP	29	--	29	--	--	
0010				CTH D NB ON-RAMP	33	--	33	--	--	
0010				CTH D NB OFF-RAMP	30	--	30	--	--	
0010				CTH D SB ON-RAMP	30	--	30	--	--	
0010				CTH D SB OFF-RAMP	36	--	36	--	--	
				TOTAL 0010	517	103	487	179	197	

3

EROSION CONTROL

CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	624.0100 WATER MGAL	625.0500 SALVAGED 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	REMARKS
0010	885+50	Crossover #1	--	7	295	125	125	--	--	
0010	138+50	Crossover #2	--	6	230	125	125	--	--	
0010	185+50	Crossover #3	--	6	245	130	130	--	--	
0010	238+00	Crossover #4	6.0	30	1295	290	290	--	--	
0010	341+00	Crossover #5	--	2	55	95	95	--	--	
0010	416+00	Crossover #6	--	--	--	--	--	--	--	NO WORK AT CROSSOVER 6
0010	445+00	Crossover #7	--	9	380	210	210	--	--	
0010	492+25	Crossover #8	--	5	210	145	145	--	--	
0010	584+00	Crossover #9	--	7	305	175	175	--	--	
0010	669+50	Crossover #10	--	9	370	180	180	--	--	
0010	725+00	Crossover #11	--	7	295	175	175	--	--	
0010	776+50	Crossover #12	--	9	380	190	190	--	--	
0010	850+00	Crossover #13	--	7	290	160	160	--	--	
0010	896+50	Crossover #14	--	5	215	150	150	--	--	
0010	970+50	Crossover #15	--	13	535	230	230	--	--	
0010		Law Enforcement Pad	--	70	3090	1160	1160	--	--	
		Sub-Total	6.0	192	8190	3540	3540	8	4	
		Undistributed	1.5	48	--	885	885	2	1	
		TOTAL 0010	7.5	240	8190	4425	4425	10	5	

CONTINUED ON NEXT PAGE

CONTINUED FROM PREVIOUS PAGE

3

EROSION CONTROL

CATEGORY	STATION	LOCATION	628.2004 EROSION MAT CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	645.0120 GEOTEXTILE TYPE HR SY	REMARKS
0010	885+50	Crossover #1	295	1	23	--	19	5	--	
0010	138+50	Crossover #2	230	1	13	--	14	4	--	
0010	185+50	Crossover #3	245	1	33	--	15	4	--	
0010	238+00	Crossover #4	1295	--	--	2	81	23	22	
0010	341+00	Crossover #5	55	--	45	--	3	1	--	
0010	416+00	Crossover #6	--	--	--	--	--	--	--	NO WORK AT CROSSOVER 6
0010	445+00	Crossover #7	380	1	13	--	24	7	--	
0010	492+25	Crossover #8	210	1	28	--	13	4	--	
0010	584+00	Crossover #9	305	1	18	--	19	5	--	
0010	669+50	Crossover #10	370	1	13	--	23	7	--	
0010	725+00	Crossover #11	295	1	13	--	19	5	--	
0010	776+50	Crossover #12	380	1	18	--	24	7	--	
0010	850+00	Crossover #13	290	1	13	--	18	5	--	
0010	896+50	Crossover #14	215	1	20	--	13	4	--	
0010	970+50	Crossover #15	535	1	13	--	34	10	--	
0010		Law Enforcement Pad	3090	--	--		195	56	--	
		Sub-Total	8190	12	258	2	514	147	22	
		Undistributed	2048	3	64	1	129	37	6	
			10238	15	322	3	643	184	28	

3

GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	614.0950 REPLACING GUARDRAIL POSTS AND BLOCKS EACH	614.0951 REPLACING GUARDRAIL RAIL AND HARDWARE LF	REMARKS
0010	60+45	-	66+14	32/V NB Off LT	8	100	RAMP
0010	50+68	-	56+06	32/V NB Off RT	8	575	RAMP
0010	54+00	-	56+23	32/V NB On LT	30	100	RAMP
0010	293+78	-	298+09	Northwoods RT	1	113	43 NB
0010	361+82	-	365+88	CTH KK South LT	7	50	43 NB
0010	359+99	-	366+19	CTH KK South RT	3	260	43 NB
0010	367+93	-	371+81	CTH KK North RT	5	25	43 NB
0010	421+67	-	425+85	Railroad LT	5	0	43 NB
0010	416+16	-	425+74	Railroad RT	19	263	43 NB
0010	478+18	-	482+19	Highland South LT	14	0	43 NB
0010	477+83	-	482+18	Highland South RT	3	138	43 NB
0010	483+78	-	491+53	Highland North RT	0	175	43 NB
0010	553+17	-	560+17	Mile Marker 103 RT	2	200	43 NB
0010	567+69	-	571+73	CTH LL South LT	6	100	43 NB
0010	564+33	-	571+12	CTH LL South RT	1	100	43 NB
0010	573+53	-	596+92	CTH LL - Lake Dr RT	16	1925	43 NB
0010	592+32	-	596+72	Lake Dr South LT	3	75	43 NB
0010	778+55	-	785+75	Mile marker 107 RT	12	350	43 NB
0010	913+45	-	917+52	Jay Rd South LT	8	0	43 NB
0010	910+63	-	917+65	Jay Rd South RT	0	250	43 NB
0010	919+00	-	925+72	Jay Rd North RT	11	200	43 NB
0010	972+42	-	976+69	Pebble Beach Rd LT	2	200	43 NB
0010	973+24	-	976+75	Pebble Beach Rd RT	0	25	43 NB

GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	614.0950 REPLACING GUARDRAIL POSTS AND BLOCKS EACH	614.0951 REPLACING GUARDRAIL RAIL AND HARDWARE LF	REMARKS
0010	1+92	-	8+00	STH 32/CTH V SB Off LT	20	550	RAMP
0010	265+90	-	279+58	STH 57 NB South LT	6	775	43 SB
0010	266+87	-	279+60	STH 57 NB South RT	0	550	43 SB
0010	263+61	-	296+90	STH 57 NB North LT	0	775	43 SB
0010	283+61	-	295+80	STH 57 NB North RT	0	213	43 SB
0010	305+67	-	309+57	Northwoods Drive RT	4	75	43 SB
0010	359+60	-	364+96	CTH KK South LT	0	25	43 SB
0010	366+67	-	374+81	CTH KK North LT	16	613	43 SB
0010	367+03	-	371+44	CTH KK North RT	2	75	43 SB
0010	429+08	-	432+62	Railroad LT	6	63	43 SB
0010	428+96	-	433+26	Railroad RT	2	75	43 SB
0010	483+78	-	493+96	Highland Lane LT	21	925	43 SB
0010	483+78	-	487+83	Highland Lane RT	1	0	43 SB
0010	554+22	-	561+05	Mile Marker 103	22	438	43 SB
0010	566+08	-	573+36	CTH LL South LT	21	463	43 SB
0010	575+66	-	581+90	CTH LL North LT	10	396	43 SB
0010	575+16	-	579+23	CTH LL North RT	3	75	43 SB
0010	597+61	-	601+20	Lake Drive LT	0	225	43 SB
0010	597+88	-	601+95	Lake Drive RT	2	75	43 SB
0010	636+47	-	641+83	South of CTH P LT	8	200	43 SB
0010	911+50	-	917+30	Jay Road South LT	25	450	43 SB
0010	918+70	-	926+52	Jay Road North LT	19	575	43 SB
0010	918+73	-	922+88	Jay Road North RT	3	125	43 SB
0010	955+22	-	959+47	Sucker Creek LT	3	75	43 SB
0010							
0010				UNDISTRIBUTED	7	261	2 %
				TOTAL 0010	365	13292	

3

MIDWEST GUARDRAIL SYSTEM

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF	614.0396 GUARDRAIL MOW STRIP SY	614.2300 MGS GUARDRAIL 3 LF	614.2610 MGS GUARDRAIL EACH	614.2620 MGS GUARDRAIL EACH	REMARKS
0010	305+66.7	-	309+57.3	LAW ENFORCEMENT PAD	391	218	391	1	1	
0010										
0010										
0010										
0010										
				TOTAL 0010	391	218	391	1	1	

INCIDENTAL & MOBILIZATION

CATEGORY	STATION	TO	STATION	LOCATION	108.4400 CPM PROGRESS SCHEDULE EACH	213.0100 FINISHING ROADWAY (PROJECT) EACH	619.1000 MOBILIZATION EACH	SPV.0060.01 SPECIAL(FIELD FACILITIES OFFICE SPACE) EACH	REMARKS
0010				PROJECT	1	1	1	1	
0010									
0010									
0010									
0010									
				TOTAL 0010	1	1	1	1	

MAINTENANCE CROSSOVERS

CATEGORY	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	205.0100 **P** EXCAVATION COMMON **P** CY	208.0100 **P** BORROW **P** CY	FOR INFORMATION ONLY WASTE CY	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0105 ASPHALTIC SURFACE TON	REMARKS
0010	885+50	Crossover #1	--	159	--	138	36	394	112	
0010	138+50	Crossover #2	--	180	--	179	35	391	112	
0010	185+50	Crossover #3	--	176	--	171	37	388	109	
0010	238+00	Crossover #4	1	840	--	145	56	575	163	
0010	341+00	Crossover #5	--	73	--	64	33	351	99	
0010	416+00	Crossover #6	--	--	--	--	--	--	--	NO WORK AT CROSSOVER 6
0010	445+00	Crossover #7	--	33	103	0	18	224	66	
0010	492+25	Crossover #8	--	53	--	36	37	372	104	
0010	584+00	Crossover #9	--	80	--	24	35	369	104	
0010	669+50	Crossover #10	--	33	61	0	38	387	107	
0010	725+00	Crossover #11	--	59	2	0	37	377	105	
0010	776+50	Crossover #12	--	145	--	109	38	389	108	
0010	850+00	Crossover #13	--	160	--	144	37	382	107	
0010	896+50	Crossover #14	--	75	--	32	42	393	106	
0010	970+50	Crossover #15	--	129	--	93	39	394	109	
0010		Law Enforcement Pad	--	783	--	783	90	1823	--	
0010		PROJECT	--	--	--	--	--	--	--	
		TOTAL 0010	1	2978	166	1918	608	7209	1511	

CONTINUED ON NEXT PAGE

3

MAINTENANCE CROSSOVERS

CATEGORY	STATION	LOCATION	521.1618 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 10 TO 1 EACH	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	633.5200 MARKERS CULVERT END EACH	690.0150 SAWING ASPHALT LF	REMARKS
0010	885+50	Crossover #1	--	--	--	16	
0010	138+50	Crossover #2	--	--	--	16	
0010	185+50	Crossover #3	--	--	--	16	
0010	238+00	Crossover #4	2	141	2	16	
0010	341+00	Crossover #5	--	--	--	16	
0010	416+00	Crossover #6	--	--	--	--	NO WORK AT CROSSOVER 6
0010	445+00	Crossover #7	--	--	--	16	
0010	492+25	Crossover #8	--	--	--	16	
0010	584+00	Crossover #9	--	--	--	16	
0010	669+50	Crossover #10	--	--	--	16	
0010	725+00	Crossover #11	--	--	--	16	
0010	776+50	Crossover #12	--	--	--	16	
0010	850+00	Crossover #13	--	--	--	16	
0010	896+50	Crossover #14	--	--	--	16	
0010	970+50	Crossover #15	--	--	--	16	
0010		Law Enforcement Pad	--	--	--	--	
0010		PROJECT	--	--	--	--	
		TOTAL 0010	2	141	2	224	

PAVEMENT MARKING

						646.1040		646.1555		646.3555	
						MARKING LINE GROOVED WET REF EPOXY 4-INCH		MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH		MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH	
CATEGORY	STATION	TO	STATION		LOCATION	WHITE LF	YELLOW LF	WHITE, 3' LINE 9' GAP LF	WHITE, 12.5' LINE 37.5' GAP LF	WHITE LF	WHITE, 3' LINE 9' GAP LF
0010	825+95	-	854+50	Mainline	SB-BEGIN PROJECT-CTHV/STH 32	1904	2377	-	2350	-	-
0010	29+80	-	50+00	Ramp	SB-ON RAMP FROM CTHV/STH 32	1828	1436	-	-	1314	-
0010	0+00	-	19+96.50	Ramp	SB-OFF RAMP TO CTHV/STH 32	2548	1640	-	-	645	-
0010	854+50	-	220+00	Mainline	SB-CTHV/STH 32-STH 33	14091	16228	-	16258	-	-
0010	210+00	-	218+00	Ramp	SB-ON RAMP FROM STH 33	2006	832	-	-	1273	-
0010	225+45.34	-	235+40	Ramp	SB-OFF RAMP TO E STH 33	1504	763	-	-	1591	1839
0010	237+97.04	-	288+20	Ramp	SB-ON RAMP FROM 57 TO 43	897	-	-	916	1456	-
0010	220+00	-	451+80	Mainline	STH 33-STH 32/CTH H	19168	22043	-	22655	-	-
0010	429+11.69	-	451+80	Ramp	SB-ON RAMP FROM STH 32/CTH H	2193	923	664	-	1484	-
0010	453+14.57	-	474+40.00	Ramp	SB-OFF RAMP TO STH 32/CTH H	2057	1058	-	-	726	-
0010	453+14.57	-	809+45.81	Mainline	STH 32/CTH H-CTH D	33071	35404	-	35439	-	-
0010	793+47.12	-	809+45.81	Ramp	SB-ON RAMP FROM CTH D	2285	965	-	-	1097	-
0010	807+32.69	-	825+00.00	Ramp	SB OFF RAMP TO CTH D	2325	1344	707	-	713	-
0010	809+45.81	-	976+00.00	Mainline	CTH D-END PROJECT	15791	16763	-	16767	-	-
					Sub-Total	101668	101776	1371	94385	10299	1839
0010	30+00	-	37+50.00	Ramp	NB-OFF RAMP TO STH 32	2785	2189	473	-	854	-
0010	825+95	-	854+50	Mainline	NB-BEGIN PROJECT-CTHV/STH 32	1710	2467	-	2463	-	-
0010	60+14.70		72+59.39	Ramp	NB-ON RAMP FROM STH 32	2223	979	-	-	1653	-
0010	854+50	-	220+00	Mainline	NB-CTHV/STH 32-STH 33	13853	16123	-	16228	-	-
0010	202+11.89		212+00	Ramp	NB-OFF RAMP TO STH 33	1702	777	713	-	1412	262
0010	224+00	-	234+50	Ramp	NB-ON RAMP FROM STH 33	1145	453	-	-	1166	-
0010	220+00	-	451+80	Mainline	STH 33-STH 32/CTH H	19436	20967	-	25638	-	2445
0010	263+80.55	-	267+00	Ramp	NB-OFF RAMP FROM 43 TO 57	-	308	-	276	725	-
0010	431+18.67	-	450+10.99	Ramp	NB-OFF RAMP TO STH 32/CTH H	1958	888	670	-	954	-
0010	450+86.77	-	471+00.00	Ramp	NB-ON RAMP FROM STH 32/CTH H	2428	1307	-	-	1519	-
0010	453+14.57	-	809+45.81	Mainline	STH 32/CTH H-CTH D	33525	35579	-	35580	-	-
0010	788+00.00		809+45.81	Ramp	NB-Off RAMP TO CTH D	2168	1194	621	-	704	-
0010	809+45.81		825+00.00	Ramp	NB-ON RAMP FROM CTH D	2388	1089	-	-	1152	-
0010	809+45.81	-	976+00.00	Mainline	CTH D-END PROJECT	15463	16778	-	16778	-	-
					Sub-Total	100785	101098	2476	96963	10140	2707
					TOTAL 0010	405328		195194		24985	

CONTINUED ON NEXT PAGE

CONTINUED FROM PREVIOUS PAGE

3

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION		LOCATION	646.4505 MARKING LINE SAME DAY PAINT 4-INCH LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.5420 MARKING AERIAL ENFORCEMENT BAR EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7220 MARKING CHEVRON EPOXY 24-INCH LF	REMARKS
0010	825+95	-	854+50	Mainline	SB-BEGIN PROJECT-CTHV/STH 32	2350	-	-	-	-	-	
0010	29+80	-	50+00	Ramp	SB-ON RAMP FROM CTHV/STH 32	-	-	-	-	-	-	
0010	0+00	-	19+96.50	Ramp	SB-OFF RAMP TO CTHV/STH 32	-	3	1	-	45	142	
0010	854+50	-	220+00	Mainline	SB-CTHV/STH 32-STH 33	16258	-	-	-	-	-	
0010	210+00	-	218+00	Ramp	SB-ON RAMP FROM STH 33	-	-	-	-	-	-	
0010	225+45.34	-	235+40	Ramp	SB-OFF RAMP TO E STH 33	-	5	1	-	16	438	
0010	237+97.04	-	288+20	Ramp	SB-ON RAMP FROM 57 TO 43	916	-	-	-	-	-	
0010	220+00	-	451+80	Mainline	STH 33-STH 32/CTH H	22655	2	-	-	-	-	
0010	429+11.69	-	451+80	Ramp	SB-ON RAMP FROM STH 32/CTH H	-	-	-	-	-	-	
0010	453+14.57	-	474+40.00	Ramp	SB-OFF RAMP TO STH 32/CTH H	-	3	1	-	48	149	
0010	453+14.57	-	809+45.81	Mainline	STH 32/CTH H-CTH D	35439	-	-	5	-		
0010	793+47.12	-	809+45.81	Ramp	SB-ON RAMP FROM CTH D	-	-	-	-	-		
0010	807+32.69	-	825+00.00	Ramp	SB OFF RAMP TO CTH D	-	3	1	-	49	155	
0010	809+45.81	-	976+00.00	Mainline	CTH D-END PROJECT	16767	-	-	-	-	-	
					Sub-Total	94385	16	4	5	159	884	
0010	30+00	-	37+50.00	Ramp	NB-OFF RAMP TO STH 32	-	2	-	-	16	230	
0010	825+95	-	854+50	Mainline	NB-BEGIN PROJECT-CTHV/STH 32	2463	-	-	-	-	-	
0010	60+14.70		72+59.39	Ramp	NB-ON RAMP FROM STH 32	-	-	-	-	-	-	
0010	854+50	-	220+00	Mainline	NB-CTHV/STH 32-STH 33	16228	-	-	-	-	-	
0010	202+11.89		212+00	Ramp	NB-OFF RAMP TO STH 33	-	9	6	-	69	178	
0010	224+00	-	234+50	Ramp	NB-ON RAMP FROM STH 33	-	-	-	-	-	-	
0010	220+00	-	451+80	Mainline	STH 33-STH 32/CTH H	25638			-			
0010	263+80.55	-	267+00	Ramp	NB-OFF RAMP FROM 43 TO 57	276	-	-	-	-	148	
0010	431+18.67	-	450+10.99	Ramp	NB-OFF RAMP TO STH 32/CTH H	-	3	1	-	36	166	
0010	450+86.77	-	471+00.00	Ramp	NB-ON RAMP FROM STH 32/CTH H	-	-	-	-	-	-	
0010	453+14.57	-	809+45.81	Mainline	STH 32/CTH H-CTH D	35580	-	-	5	-	-	
0010	788+00.00		809+45.81	Ramp	NB-Off RAMP TO CTH D	-	3	1	-	45	161	
0010	809+45.81		825+00.00	Ramp	NB-ON RAMP FROM CTH D	-	-	-	-	-	-	
0010	809+45.81	-	976+00.00	Mainline	CTH D-END PROJECT	16778	-	-	-	-	-	
					Sub-Total	96963	17	8	5	166	884	
					TOTAL 0010	191348	33	12	10	325	1768	

MARKING OUTFALL EPOXY

CATEGORY	STATION	TO	STATION		LOCATION	646.5520 EACH	REMARKS
0010	830+00	-	833+30	SB	LT	1	
0010	833+30	-	845+83	SB	LT & RT	6	
0010	845+83	-	887+51.64 (BK)	SB	LT	12	
0010	89+71.5 (AHD)	-	219+36	SB	LT	43	
0010	221+04	-	231+00	SB	LT	3	
0010	231+00	-	279+72	SB	LT & RT	30	
0010	283+47	-	300+56	SB	LT & RT	8	
0010	300+56	-	315+63.56 (BK)	SB	LT	4	
0010	325+74	-	365+33	SB	LT & RT	22	
0010	366+88	-	423+56	SB	LT & RT	24	
0010	423+56	-	426+06	SB	LT	1	
0010	429+00	-	482+29	SB	LT	13	
0010	483+70	-	546+97	SB	LT	20	
0010	546+97	-	563+55	SB	LT & RT	12	
0010	563+55	-	572+96	SB	LT	4	
0010	575+16	-	597+35	SB	LT	5	
0010	597+74	-	779+54	SB	LT	66	
0010	779+54	-	824+60	SB	LT & RT	36	
0010	824+60	-	905+80	SB	LT	28	
0010	905+80	-	917+47	SB	LT & RT	6	
0010	918+69	-	944+17	SB	LT & RT	14	
0010	944+17	-	976+58	SB	LT & RT	10	
0010	830+00	-	887+51.64 (BK)	NB	RT	16	
0010	89+71.50 (AHD)	-	219+36	NB	RT	46	
0010	221+02	-	308+44.47 (BK)	NB	RT	28	
0010	325+74.08 (AHD)	-	366+03	NB	RT	11	
0010	367+56	-	425+81	NB	RT	12	
0010	428+75	-	437+58	NB	RT	2	
0010	437+58	-	482+29	NB	LT & RT	22	
0010	483+70	-	570+32	NB	RT	31	
0010	570+32	-	571+67	NB	LT & RT	2	
0010	574+00	-	596+83	NB	LT & RT	10	
0010	598+22	-	627+35	NB	LT & RT	24	
0010	627+35	-	700+54	NB	RT	27	
0010	700+54	-	753+91	NB	LT & RT	38	
0010	753+91	-	873+55	NB	RT	41	
0010	873+55	-	899+81	NB	LT & RT	24	
0010	899+81	-	917+65	NB	RT	4	
0010	918+87	-	951+77	NB	RT	11	
0010	951+77	-	976+77	NB	LT & RT	12	
					TOTAL 0010	729	

3

PIPE UNDERDRAIN

CATEGORY	STATION	TO	STATION	LOCATION	310.0110 BASE AGGREGATE OPEN-GRADED TON	612.0104 PIPE UNDERDRAIN 4-INCH LF	612.0204 PIPE UNDERDRAIN UNPERFORATED 4-INCH LF	612.0804 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 4-INCH EACH	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	REMARKS
0010				Law Enforcement Pad	28	1109	173	4	370	
0010										
0010										
0010										
0010										
				TOTAL 0010	28	1109	173	4	370	

3

SPECIAL(RESIN BINDER HIGH FRICTION SURFACE TREATMENT)

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0180.01 Resin Binder High Friction Surface Treatment SY	REMARKS
0010	830+00	-	850+00	IH 43 NB & Off Ramp to STH 32	6540	
0010	258+27	-	279+74	IH 43 SB	5760	
0010	283+43	-	302+99	IH 43 SB	5250	
0010	422+00	-	426+13	IH 43 SB	1090	
0010						
				TOTAL 0010	18640	

TRAFFIC CONTROL

CATEGORY	STATION	TO	STATION	STAGE	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
0010	829+70	-	977+29.01	TWO LANE FULL FWY CLOSURE	2436	140	168	952	84	364	-	-
0010	829+70	-	977+29.01	LANE CLOSURE (4 MILES)	4480	1792	3584	1904	224	2912	-	-
0010	829+70	-	977+29.01	RAMP ENTRANCE/EXIT	11008	-	-	1280	-	256	-	-
0010	829+70	-	977+29.01	SERVICE RAMP CLOSURE	274	62	72	32	-	196	-	-
0010	829+70	-	977+29.01	DETOUR	-	-	-	-	-	4804	-	14
0010				UNDISTRIBUTED	-	-	-	-	-	-	25	-
				TOTAL 0010	18198	1994	3824	4168	308	8532	25	14

3

TRAFFIC CONTROL

CATEGORY	STATION	TO	STATION	STAGE	TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	TRAFFIC CONTROL SIGNS PCMS WITH CELLULAR COMMUNICATIONS DAY	TRAFFIC CONTROL CONES 42-INCH DAY	TRAFFIC CONTROL INTERIM LANE CLOSURE EACH	TRAFFIC CONTROL EACH	REMARKS
0010	829+70	-	977+29.01	TWO LANE FULL FWY CLOSURE	-	60	-	-	-	
0010	829+70	-	977+29.01	LANE CLOSURE (4 MILES)	-	-	47488	112	-	
0010	829+70	-	977+29.01	RAMP ENTRANCE/EXIT	-	-	-	-	-	
0010	829+70	-	977+29.01	SERVICE RAMP CLOSURE	-	12	-	-	-	
0010	829+70	-	977+29.01	DETOUR	-	-	-	-	-	
0010				UNDISTRIBUTED	384	-	-	-	1	
				TOTAL 0010	384	72	47488	112	1	

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
IH 43 NORTHBOUND																											
1	E4-1A	[NORTH] [SOUTH] [32] [V] PORT WASHINGTON [ARROW] GRAFTON	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	28 x 13	364.00	1	--	--	--	--	--	--	2	--	--	--	--
1A	E1-5P	EXIT 93	-- x --	--	--	--	--	--	--	--	1	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
2	E5-1A(5)	EXIT 93 [A]	72 x 60	30.00	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
2A	W5-56	--	-- x --	--	--	--	--	--	--	1	2	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
2B	W5-56	--	-- x --	--	--	--	--	--	--	1	2	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
2C	JV-F	--	-- x --	--	--	--		--	1	1	--	MOVE ALT ROUTE SIGN TO SEPARATE POST	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
3	W3-1(2S)	--	36 x 36	--	9.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
4	D4-2L(3)	--	36 x 48	12.00	--	--	1	1	1	--	--	WRONG WAY INCLUDED IN REMOVAL	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
5	R5-1A(3)	--	42 x 30	8.75	--	--	--	--	--	--	#4	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
6	R5-1A(3)	--	42 x 30	8.75	--	--	--	--	--	--	#7	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
7	D1-2	[A] GRAFTON PORT WASHINGTON [A]	108 x 30	22.50	--	-- --	1	2	2	--	--	WRONG WAY AND MICHIGAN CIRCLE TOUR INCLUDED IN REMOVAL	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
9	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
10	J3-2(2S)	--	72 x 57	28.50	--	--	2	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-3	SOUTH	24 x 12																							
	M1-5A	CTH V	24 x 24																							
	M6-1	ARROW	21 x 21																							
	M3-1	NORTH	24 x 12																							
	M1-6B	STH 32	24 x 24																							
	M6-1	ARROW	21 x 21																							
	M1-93	LAKE MICHIGAN CIRCLE TOUR	24 x 24																							
	MK6-1	ARROW	21 x 21																							
11	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	REMOVAL INCLUDES R5-1 & R5-1A	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
11A	R6-2L(2S)	--	24 x 30	5.00	--	--	--	--	--	--	#11	FACING WEST	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
12	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#11	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
13	R5-1(3)	--	36 x 36	9.00	--	--	--	--	1	--	--	DO NOT INSTALL BEHIND STOP SIGN	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
13A	R5-1(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#13	3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
14	R3-1(2M)	--	36 x 36	9.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
15	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	REMOVAL INCLUDES R5-1 & R5-1A	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
16	R1-2(2S)	--	36 x 31	3.88	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
17	W4-4AR(2M)	--	30 x 12	--	2.50	--	--	--	--	--	#16	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
18	R5-1(3)	--	36 x 36	9.00	--	--	1	1	1	--	--	REMOVAL INCLUDES NO LEFT TURN	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
19	R3-2(2M)	--	36 x 36	9.00	--	--	--	--	--	--	#18	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
20	R6-2L(2S)	--	24 x 30	5.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
21	W4-1(5)	--	48 x 48	--	16.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
22	R1-2(2S)	--	36 x 31	3.88	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
23	R5-57(5)	--	36 x 36	9.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
24	D10-2(5)	MILE 94	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
25	J4-1(5)	--	36 x 90	22.50	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	MB3-1	NORTH	36 x 18																							
	M1-1	IH 43	36 x 36																							
	M1-6	STH 57	36 x 36																							
26	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
27	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
28	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
29	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
30	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
31	D2-3	SAUKVILLE 2 PLYMOUTH 32 GREEN BAY 92	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	16 x 7	112.00	1	--	--	--	--	--	--	2	--	--	--	--
32	D10-2(5)	MILE 95	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
33	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
34	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
35	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
36	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
37	E1-1A	[33] SAUKVILLE PORT WASHINGTON 1 MILE	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	25 x 13.5	337.50	1	--	--	--	--	--	--	2	--	--	--	--
37A	E1-5P	EXIT 96	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
38	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
39	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
40	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
41	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
42	D10-2(5)	MILE 96	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
43	E4-1A	[33] SAUKVILLE [A] PORT WASHINGTON	-- x --	--	--	-- --	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	28 x 11	308.00	1	--	--	--	--	--	--	2	--	--	--	--
43A	E1-5P	EXIT 96	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
44	E4-1A	[57] NORTH PLYMOUTH 1 MILE	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	15 x 10.5	157.50	1	--	--	--	--	--	--	2	--	--	--	--
44A	E1-5BP	LEFT EXIT 97	-- x --	--	--	--	--	--	--	--	--	--	9 x 4	36.00	--	--	--	--	--	--	--	--	--	--	--	--
45	E5-1A(5)	EXIT 96 [A]	72 x 60	30.00	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
45A	W5-56	--	-- x --	--	--	--	--	--	--	1	45	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
45B	W5-56(2S)	--	18 x 18	--	2.25	--	--	--	--	--	45	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
45C	JV-F	--	-- x --	--	--	--	--	--	1	1	--	MOVE ALT ROUTE SIGN TO SEPARATE POST	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
46	W3-3(2)	--	36 x 36	--	9.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
47	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
48	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
49	J3-2(2S)	--	48 x 57	19.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-4	WEST	24 x 12																							
	M1-6	STH 33	24 x 24																							
	M6-1	ARROW	21 x 21																							
	M3-2	EAST	24 x 12																							
	M1-6	STH 33	24 x 24																							
	M6-1	ARROW	21 x 21																							
50	R5-1A(3)	--	42 x 30	8.75	--	--	1	--	--	--	--	MOUNT ON BACK OF EXISTING SIS	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
51	R5-1A(3)	--	42 x 30	8.75	--	--	--	--	--	--	#49	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
52	R1-1F(3)	--	36 x 36	--	--	7.46	1	--	--	--	--	MOUNT ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
53	R1-1F(3)	--	36 x 36	--	--	7.46	1	--	--	--	--	MOUNT ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
54	R5-1(3)	--	36 x 36	9.00	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
54A	R5-1A(2S)	--	36 x 24	6.00	6.00	--	--	--	--	--	--	MOUNT ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
55	W12-1D(2S)	--	24 x 24	--	4.00	--	1	1	1	--	--	2 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
56	NOT USED		-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
57	W4-3R(5)	--	48 x 48	--	16.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
58	R5-57(5)	--	36 x 36	9.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
59	J3-2(2S)	--	48 x 57	19.00	--	--	1	--	--	--	--	MOUNT ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-4	WEST	24 x 12																							
	M1-6	STH 33	24 x 24																							
	M6-1	ARROW	21 x 21																							
60	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#52	MOUNT ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
60A	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#513	MOUNT ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
61	D10-2(5)	MILE 96	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
62	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
63	D2-3	FREDONIA 6 RANDOM LAKE 11 PLYMOUTH 28	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	17 x 7	119.00	1	--	--	--	--	--	--	2	--	--	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
64	D2-3	SHEBOYGAN 30 MANITOWOC 51 GREEN BAY 89	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	16 x 7	112.00	1	--	--	--	--	--	--	2	--	--	--	--
65	E6-51	[43] NORTH GREEN BAY [A] [A]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-45-2 NEW I-BEAMS INCIDENTAL	17 x 10.5	178.50	1	--	--	--	--	--	--	--	--	--	--	--
66	E6-51	[57] NORTH PLYMOUTH [A]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-45-2 NEW I-BEAMS INCIDENTAL	13 x 10.5	136.50	1	--	--	--	--	--	--	--	--	--	--	--
66A	E1-5BP	LEFT EXIT 97	-- x --	--	--	--	--	--	--	--	--	--	9 x 4	36.00	--	--	--	--	--	--	--	--	--	--	--	--
67	R4-3(5)	--	48 x 60	20.00	--	--	1	1	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
68	E6-51	[57] NORTH PLYMOUTH [A] [A]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-45-4 NEW I-BEAMS INCIDENTAL	17 x 10.5	178.50	1	--	--	--	--	--	--	--	--	--	--	--
68A	E1-5BP	LEFT EXIT 97	-- x --	--	--	--	--	--	--	--	--	--	9 x 4	36.00	1	--	--	--	--	--	--	--	--	--	--	--
69	E6-51	[43] NORTH GREEN BAY [A] [A]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-45-4 NEW I-BEAMS INCIDENTAL	17 x 10.5	178.50	1	--	--	--	--	--	--	--	--	--	--	--
70	D10-2(5)	MILE 98	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
71	J4-1(5)	--	36 x 90	22.50	--	--	1	1	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	MB3-1	NORTH	36 x 18	--		--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	M1-1	IH 43	36 x 36	--		--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
72	D2-3	[32] [H] 2 MANITOWOC 50 GREEN BAY 88	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	16 x 7.5	120.00	1	--	--	--	--	--	--	2	--	--	--	--
73	--	ROAD TEST 553008	-- x --	--	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
74	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
75	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
76	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
77	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
78	D10-2(5)	MILE 99	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
79	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
80	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
81	E4-1A	SOUTH WEST [32] [H] FREDONIA PORT WASHINGTON 1 MILE	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	25 x 16	400.00	1	--	--	--	--	--	--	2	--	--	--	--
81A	E1-5P	EXIT 100	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
82	E1-51A	NORTH [32] AHEAD	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	13 x 7	91.00	1	--	--	--	--	--	--	2	--	--	--	--
83	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
84	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
85	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
86	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
87	D10-3(5)	MILE 100	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
88	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
89	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
90	NOT USED		-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
91	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
92	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
93	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
94	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
95	E5-1A(5)	EXIT 100 [A]	90 x 60	37.50	--	-- --	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
95A	JV-F	--	-- x --	--	--	--	--	--	1	1	--	MOVE ALT ROUTE SIGN TO SEPARATE POST	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
95B	W5-56	--	-- x --	--	--	--	--	--	--	1	95	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
95C	W5-56	--	-- x --	--	--	--	--	--	--	1	95	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
96	W3-1(2S)	--	36 x 36	--	9.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
97	R5-1A(3)	--	42 x 30	8.75	--	--	--	--	--	--	#99	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
98	R5-1A(3)	--	42 x 30	8.75	--	--	1	--	--	--	--	MOUNT ON BACK OF EXISTING SIS	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
99	D1-2	[A] FREDONIA PORT WASHINGTON [A]	108 x 30	22.50	--	-- --	1	2	2	--	--	WRONG WAY INCLUDED IN REMOVAL	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
100	D4-2L(3)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
101	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	INCL REMOVAL OF ALL SIGNS ON POST	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
102	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#101	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
103	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	INCL REMOVAL OF ALL SIGNS ON POST	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
104	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#103	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
105	R5-1(3)	--	36 x 36	9.00	--	--	1	1	1	--	--	DO NOT INSTALL BEHIND STOP SIGN	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
105A	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#105	3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
106	R6-2L(2S)	--	24 x 30	5.00	--	--	--	--	--	--	#103	ABOVE STOP SIGN	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
106A	R6-2R(2S)	--	24 x 30	5.00	--	--	--	--	--	--	#101	ABOVE STOP SIGN	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
107	R6-2L(2S)	--	24 x 30	5.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
108	R3-1(2S)	--	24 x 24	4.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
109	W4-1(5)	--	48 x 48	--	16.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
110	J4-1(5) MB3-1 M1-1 M1-6B(3) M1-93(4)	-- NORTH IH 43 STH 32 LAKE MICHIGAN CIRCLE TOUR	36 x 126 36 x 18 36 x 36 36 x 36 36 x 36	31.50 9.00 9.00	--	--	1	1	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
111	D10-3(5)	MILE 101	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
112	J3-2(2S) M3-4 M1-5A M6-1 M3-3 M1-93 M6-1	-- WEST CTH H ARROW SOUTH LAKE MICHIGAN CIRCLE TOUR ARROW	48 x 57 24 x 12 24 x 24 21 x 21 24 x 12 24 x 24 21 x 21	19.00 	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
113	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
114	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
115	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
116	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
117	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
118	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
119	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
120	D10-3(5)	MILE 102	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
121	D2-3	[D] 6 SHEBOYGAN 23 GREEN BAY 84	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	16 x 7	112.00	1	--	--	--	--	--	--	2	--	--	--
122	R8-7(5)	--	48 x 36	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
123	D10-3(5)	MILE 103	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
124	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
125	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
126	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
127	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
128	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
129	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
130	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
131	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
132	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
133	D10-3(5)	MILE 104	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
134	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
135	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
136	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
137	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
138	D10-3(5)	MILE 105	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
139	R4-3(5)	--	48 x 60	20.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
140	M1-94	HWY A	54 x 21	7.88	--	--	--	--	--	--	#141	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
141	M1-94	SANDY BEACH RD	114 x 21	16.63	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
142	D10-3(5)	MILE 106	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
143	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
144	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
145	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
146	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
147	E1-1A	[D] BELGIUM 1 MILE	-- x --	--	--	--	--	--	--	--	--	INSTALL 10 FT SOUTH OF EXISTING	13 x 10	130.00	1	2	--	B	1.6	98	1000	--	--	--	--	--
147A	E1-5P	EXIT 107	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
148	NOT USED																									
149	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
150	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
151	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
152	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
153	D10-3(5)	MILE 107	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
154	E4-1A	[D] BELGIUM [A]	-- x --	--	--	--	--	--	--	--	--	INSTALL 10' SOUTH OF EXISTING	17 x 7.5	127.50	1	2	--	B	1.6	98	1000	--	--	--	--	--
154A	E1-5P	EXIT 107	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
155	E5-1A(5)	EXIT 107 [A]	90 x 60	37.50	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
156	D1-2	[A] BELGIUM	66 x 15	6.88	--	--	--	--	2	--	--	--	-- x --	--	1	2	--	--	--	--	--	--	--	--	--	--
157	D7-53	HARRINGTON BEACH STATE PARK [A]	84 x 36	21.00	--	--	--	--	--	--	#156	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
158	W3-1(2)	--	36 x 36	--	9.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
159	R5-1A(3)	--	42 x 30	8.75	--	--	1	--	--	--	--	MOUNT ON BACK OF EXISTING SIS	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
160	R5-1A(3)	--	42 x 30	8.75	--	--	1	--	--	--	#156	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
161	J3-1(2S)	--	24 x 45	7.50	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	M1-5A	CTH D	24 x 24																							
	M6-4	DBL ARROW	21 x 21																							
162	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
163	R5-1(3)	--	36 x 36	9.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
163A	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#163	3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
163B	R6-2R(2S)	--	24 x 30	5.00	--	--	--	--	--	--	#163	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
164	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
165	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
166	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#164	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
167	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#165	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
168	R5-57(5)	--	36 x 36	9.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
169	W4-1(5)	--	48 x 48	--	16.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
170	J4-1(5)	--	36 x 126	31.50	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	MB3-1	NORTH	36 x 18																							
	M1-1	IH 43	36 x 36																							
	M1-6B	STH 32	36 x 36																							
	M1-93	LAKE MICHIGAN CIRCLE TOUR	36 x 36																							

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
171	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
172	D10-3(5)	MILE 108	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
173	D12-2A(5)	--	78 x 54	29.25	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
174	D2-3	CEDAR GROVE 4 MANITOWOC 43 GREEN BAY 78	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	16 x 7	112.00	1	--	--	--	--	--	--	2	--	--	--	--
175	D10-3(5)	MILE 109	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
176	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
177	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
178	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
179	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
180	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
181	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
182	D10-3(5)	MILE 110	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
183	I2-2	SHEBOYGAN CO	102 x 21	14.88	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
184	D10-3(5)	MILE 111	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
185	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
186	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
187	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
188	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
189	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
190	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
191	D1-2	[A] SAUKVILLE PORT WASHINGTON [A]	108 x 30	22.50	--	-- --	1	2	2	--	--	SHEET 7A	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
192	R3-1(2S)	--	24 x 24	4.00	--	--	1	1	1	--	--	SHEET 7A	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
500	M1-94	SILVER BEACH RD	114 x 21	16.63	--	--	1	2	2	--	--	SHEET 27	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
501	M1-94	JAY RD	60 x 21	8.75	--	--	1	2	2	--	--	SHEET 29	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
502	M1-94	PEBBLE BEACH RD	120 x 21	17.50	--	--	--	--	2	--	--	SHEET 31	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
503	M1-94	CEDAR BEACH RD	114 x 21	16.63	--	--	1	2	2	--	--	SHEET 25	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
504	R6-2L (2S)	--	24 x 30	5.00	--	--	--	--	1	--	--	SHEET 7A	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
505	R6-2L (2S)	--	24 x 30	5.00	--	--	--	--	--	--	--	SHEET 7A - ON SIGNAL POLE														
506	R3-4B(5)	--	36 x 48	9.00	--	--	1	1	1	--	--	SHEET 28	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
507	R3-4B(5)	--	36 x 48	12.00	--	--	--	--	1	--	--	SHEET 28	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
508	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	SHEET 15	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
509	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
510	R5-1(3)	--	36 x 36	9.00	--	--	--	--	1	--	--	SHEET 2 - DO NOT INSTALL BEHIND R1-1	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
511	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	210	SHHET 2 - 3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
512	R3-8T(2S)	--	72 x 30	15.00	--	--	--	--	2	--	--	SHEET 7A	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
513	R1-1F(3)	--	36 x 36	--	--	7.46	--	--	--	--	--	SHEET 7A - ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
514	E3-1	[BUS] [CAR] PARK & RIDE EXIT 100	-- x --	--	--	--	--	--	--	--	--	SHEET 11 STA 346+00	11 x 7.5	82.50	--	--	--	A	1.2	68	600	--	--	--	--	--
515	R5-1C(3)	--	36 x 36	9.00	--	--	--	--	--	--	#103	SHEET 15	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
516	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#103	SHEET 15 - 3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
517	R5-1C(3)	--	36 x 36	9.00	--	--	--	--	--	--	#164	SHEET 26	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
518	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#164	SHEET 26 - 3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
519	R6-2L(2S)	--	24 x 30	5.00	--	--	--	--	--	--	#164	SHEET 26	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
520	R6-2L(2S)	--	24 x 30	5.00	--	--	--	--	1	--	--	SHEET 26	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
521	R5-1(3)	--	36 x 36	9.00	--	--	1	1	1	--	--	SHEET 26 - DO NOT INSTALL BEHIND R1-1	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
522	R5-1(3)	--	36 x 36	9.00	--	--	--	--	--	--	--	SHEET 7A - ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
522A	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	--	SHEET 7A - ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
IH 43 SOUTHBOUND																										
201	W4-1(5)	--	48 x 48	--	16.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
202	R5-57(5)	--	36 x 36	9.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
203	R1-2(2S)	--	36 x 31	3.88	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
204	E1-1A	[60] [Q] GRAFTON 1 MILE	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	12 x 10.5	126.00	1	--	--	--	--	--	--	2	--	--	--	--
204A	E1-5P	EXIT 92	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
205	R3-1(2S)	--	24 x 24	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
206	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
207	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
208	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#206	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
209	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#207	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
210	R1-2(2S)	--	36 x 31	3.88	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
211	W4-4AR(2M)	--	30 x 12	--	2.50	--	--	--	--	--	#210	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
212	J3-3(2S)	--	72 x 57	28.50	--	--	1	1	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-1	NORTH	24 x 12																							
	M1-6B	STH 32	24 x 24																							
	M6-1	ARROW	21 x 21																							
	M1-93	LAKE MICHIGAN CIRCLE TOUR	24 x 24																							
	MK6-1	ARROW	21 x 21																							
	M1-5A	CTH V	24 x 24																							
	M6-1	ARROW	21 x 21																							
213	D4-2R(3)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
214	R3-1(2S)	--	24 x 24	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
215	R5-1(3)	--	36 x 36	9.00	--	--	--	--	1	--	--	DO NOT PLACE BEHIND STOP SIGN	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
215A	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#215	3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
216	R5-1A(3)	--	42 x 30	8.75	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
217	R5-1A(3)	--	42 x 30	8.75	--	--	--	--	--	--	#219	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
218	W3-1(2)	STOP AHEAD	36 x 36	--	9.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
219	D1-2	[A] PORT WASHINGTON GRAFTON [A]	108 x 30	22.50	--	-- --	1	2	2	--	--	INCLUDES REMOVING WRONG WAY SIGN	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
220	E5-1A(5)	EXIT 93 [A]	72 x 60	30.00	--	-- --	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--	--
220A	JV-F	--	-- x --	--	--	--	--	--	1	1	--	MOVE ASSEMBLY TO SEPARATE POST	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
220B	W5-56(2S)	--	18 x 18	--	2.25	--	--	--	--	--	#220	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
220C	W5-56(2S)	--	18 x 18	--	2.25	--	--	--	--	--	#220	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
221	D10-2(5)	MILE 94	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
222	R6-2L(2S)	--	24 x 30	5.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
223	E4-1A	[NORTH] [SOUTH] [32] [V] PORT WASHINGTON [ARROW] GRAFTON	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	28 x 13	364.00	1	--	--	--	--	--	--	2	--	--	--	--
223A	E1-5P	EXIT 93	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
224	--	[BUS] [CAR] PARK & RIDE EXIT 93	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	11 x 7.5	82.50	1	--	--	--	--	--	--	2	--	--	--	--
225	D10-2(5)	MILE 95	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
226	E4-1A	[NORTH] [SOUTH] [32] [V] PORT WASHINGTON GRAFTON 1 MILE	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	25 x 16	400.00	1	--	--	--	--	--	--	2	--	--	--	--
226A	E1-5P	EXIT 93	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
227	D2-3	GRAFTON 4 MILWAUKEE 24	-- x --	--	--	-- --	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	16 x 5	80.00	1	--	--	--	--	--	--	2	--	--	--	--

3

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
228	D10-2(5)	MILE 96	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
229	D12-2B(5)	--	114 x 48	38.00	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
230	R4-3(5)	--	48 x 60	20.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
231	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
232	J4-1(5)	--	36 x 90	22.50	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	MB3-3	SOUTH	36 x 18																							
	M1-1	IH 43	36 x 36																							
	M1-6	STH 57	36 x 36																							
233	D12-2A(5)	--	78 x 54	29.25	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
234	R5-1(3)	--	36 x 36	9.00	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
235	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
236	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
237	R5-57(5)	--	36 x 36	9.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
238	R1-2(2S)	--	36 x 31	3.88	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
239	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
240	J3-2(2S)	--	48 x 57	19.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-2	EAST	24 x 12																							
	M1-6	STH 33	24 x 24																							
	M6-1	ARROW	21 x 21																							
	M3-4	WEST	24 x 12																							
	M1-6	STH 33	24 x 24																							
	M6-1	ARROW	21 x 21																							
241	W12-1D(2S)	--	24 x 24	--	4.00	--	1	1	1	--	--	2 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
242	R1-1F(3)	--	36 x 36	--	--	7.46	1	--	--	--	--	MOUNT ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
243	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
244	W4-1(5)	--	48 x 48	--	16.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
245	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
246	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
247	W4-2R(2S)	--	48 x 48	--	16.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
248	D1-2	[A] PORT WASHINGTON SAUKVILLE [A]	108 x 30	22.50	--	-- --	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
249	W3-3(2)	--	36 x 36	--	9.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
250	E5-1A(5)	EXIT 96 [A]	72 x 60	30.00	--	-- --	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
250A	W5-56	--	-- x --	--	--	--	--	--	--	1	#250	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
250B	JV-F	--	-- x --	--	--	--	--	--	1	1	--	MOVE ASSEMBLY TO SEPARATE POST	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
250C	W5-56(2S)	--	18 x 18	--	2.25	--	--	--	--	--	#250	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
251	D10-2(5)	MILE 97	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
252	R3-8(2S)	--	36 x 30	7.50	--	--	--	--	--	--	#253	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
253	R5-1A(3)	--	42 x 30	8.75	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
254	R5-1A(3)	--	42 x 30	8.75	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
255	E6-51	[43] [57] SOUTH MILWAUKEE GRAFTON [A] [A]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-45-1 NEW I-BEAMS INCIDENTAL	17 x 13	221.00	1	--	--	--	--	--	--	--	--	--	--	--
256	W9-62(5)	--	72 x 90	--	45.00	--	1	--	--	--	--	INSTALL ON S-45-1	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
257	E6-1A	[33] SAUKVILLE PORT WASHINGTON EXIT [A] ONLY	-- x --	--	--	-- -- --	--	--	--	--	--	INSTALL ON S-45-1 NEW I-BEAMS INCIDENTAL	20 x 13	260.00	1	--	--	--	--	--	--	--	--	--	--	--
257A	E1-5P	EXIT 96	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
258	R3-4B(5)	--	36 x 48	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
259	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
260	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
261	W9-62(5)	--	72 x 90	--	45.00	--	1	--	--	--	--	INSTALL ON S-45-3	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
262	E6-1A	[33] SAUKVILLE PORT WASHINGTON EXIT [A] ONLY	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-45-3	20 x 12.5	250.00	1	--	--	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
262A	E1-5P	EXIT 96	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
263	W4-2L(5)	--	48 x 48	--	16.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
264	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
265	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
266	D10-2(5)	MILE 98	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
267	E1-1A	[33] SAUKVILLE PORT WASHINGTON 1 ½ MILES	-- x --	--	--	-- -- --	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	25 x 13.5	337.50	1	--	--	--	--	--	--	2	--	--	--	--
267A	E1-5P	EXIT 96	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
268	D10-2(5)	MILE 99	12 x 36	3.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
269	D2-3	[33] 2 MILWAUKEE 27	-- x --	--	--	-- --	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	15 x 5	75.00	1	--	--	--	--	--	--	2	--	--	--	--
270	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
271	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
272	D10-3(5)	MILE 100	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
273	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
274	J4-1(5) MB3-3 M1-1	-- SOUTH IH 43	36 x 54 36 x 18 36 x 36	13.50	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
275	W4-1(5)	--	48 x 48	--	16.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
276	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
277	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
278	R5-57(5)	--	36 x 36	9.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
279	R3-1(2S)	--	24 x 24	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
280	R6-2L(2S)	--	24 x 30	5.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
281	R5-1C(3)	--	36 x 36	9.00	--	--	--	--	--	--	#283	CLIP CORNERS TO OCTAGON	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
281A	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#283	3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
282	R6-2L(2S)	--	24 x 30	5.00	--	--	--	--	--	--	#283	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
283	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
283A	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#283	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
284	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
285	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
286	J3-2(2S) M3-3 M1-6B M6-1 M1-6 M6-1	-- SOUTH STH 32 ARROW CTH H ARROW	48 x 57 24 x 12 24 x 24 21 x 21 24 x 24 21 x 21	19.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
287	D12-2A(5)	--	78 x 54	29.25	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
288	R5-1A(3)	--	42 x 30	8.75	--	--	--	--	--	--	#293	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
289	R5-1A(3)	--	42 x 30	8.75	--	--	--	--	--	--	#294	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
290	D10-3(5)	MILE 101	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
291	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
292	J3-2(2S) M1-93 MK6-1	-- LAKE MICHIGAN CIRCLE TOUR ARROW	24 x 45 24 x 24 21 x 21	7.50	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
293	D1-2	[A] PORT WASHINGTON FREDONIA [A]	108 x 30	22.50	--	-- --	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
294	D4-2R(2S)	--	30 x 36	7.50	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
295	W3-1(2S)	--	36 x 36	--	9.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
296	E5-1A(5)	EXIT 100 [A]	90 x 60	37.50	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
296A	JV-F	--	-- x --	--	--	--	--	--	1	--	--	MOVE ASSEMBLY TO SEPARATE POST	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
296B	W5-56(2S)	--	18 x 18	--	2.25	--	--	--	--	--	#296	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
296C	W5-56(2S)	--	18 x 18	--	2.25	--	--	--	--	--	#296	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
297	E4-1A	SOUTH WEST [32] [H] FREDONIA [A] PORT WASHINGTON	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	27 x 13.5	364.50	1	--	--	--	--	--	--	2	--	--	--	--
297A	E1-5P	EXIT 100	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
298	D10-3(5)	MILE 102	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
299	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
300	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
301	E4-1A	SOUTH WEST [32] [H] FREDONIA PORT WASHINGTON 1 MILE	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	25 x 16	400.00	1	--	--	--	--	--	--	2	--	--	--	--
301A	E1-5P	EXIT 100	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
302	E3-1	[BUS] [CAR] PARK & RIDE EXIT 100	-- x --	--	--	-- -- --	--	--	--	--	--	--	11 x 7.5	82.50	--	--	--	--	--	--	--	2	--	--	--	--
303	D10-3(5)	MILE 103	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
304	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
305	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
306	M1-94	HWY LL	60 x 21	8.75	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
307	R4-3(5)	--	48 x 60	20.00	--	--	1	1	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
308	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
309	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
310	D10-3(5)	MILE 104	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
311	D10-3(5)	MILE 105	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
312	M1-94	HWY A	54 x 21	7.88	--	--	--	--	--	--	#313	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
313	M1-94	SANDY BEACH RD	114 x 21	16.63	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
314	D10-3(5)	MILE 106	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
315	R8-7(5)	--	48 x 36	12.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
316	D2-3	PORT WASHINGTON 8 MILWAUKEE 35	-- x --	--	--	--	--	--	--	--	--	RE-USE EXISTING STEEL SUPPORTS	20 x 5	100.00	1	--	--	--	--	--	--	2	--	--	--	--
317	D10-3(5)	MILE 107	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
318	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
319	J4-1(5)	--	36 x 126	31.50	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	MB3-3	SOUTH	36 x 18																							
	M1-1	IH 43	36 x 36																							
	M1-6B	STH 32	36 x 36																							
	M1-93	LAKE MICHIGAN CIRCLE TOUR	36 x 36																							
320	W4-1(5)	--	48 x 48	--	16.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
321	R5-57(5)	--	36 x 36	9.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
322	R5-1(3)	--	36 x 36	9.00	--	--	1	1	1	--	--	DO NOT PLACE BEHIND YIELD SIGN	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
323	R3-2(2S)	--	24 x 24	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
324	R6-2L(2S)	--	24 x 30	5.00	--	--	--	--	1	--	--	CORE INTO ISLAND EAST OF STOP SIGN	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
325	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
326	R1-2(2S)	--	36 x 31	3.88	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
327	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#325	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
328	R3-1(2S)	--	24 x 24	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
329	R5-1(3)	--	36 x 36	9.00	--	--	--	--	--	--	#330	TRIM TO OCTAGON SHAPE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
329A	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#330	3 FT MOUNTING HEIGHT														
330	R1-1(3)	--	36 x 36	7.46	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
331	R6-3(2M)	--	30 x 24	5.00	--	--	--	--	--	--	#331	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
332	J3-1(2S)	--	24 x 45	7.50	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	M1-5A	CTH D	24 x 24																							
	M6-4	DBL ARROW	21 x 21																							

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
333	R5-1A(3)	--	42 x 30	8.75	--	--	1	--	--	--	--	MOUNT ON BACK OF EXISTING SIS	-- x --	--	--	--	--	--	--	--	--	--	--	--	--
334	R5-1A(3)	--	42 x 30	8.75	--	--	1	--	--	--	#337	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--
335	W3-1(2)	--	36 x 36	--	9.00	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--
336	D10-3(5)	MILE 108	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--
337	D1-2	BELGIUM [A]	66 x 15	6.88	--	--	--	--	2	--	--	--	-- x --	--	1	2	--	--	--	--	--	--	--	--	--
338	D7-53	HARRINGTON BEACH [A] STATE PARK	84 x 36	21.00	--	--	--	--	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--
339	E4-1A	[D] BELGIUM [A]	-- x --	--	--	--	--	--	--	--	--	INSTALL 10' NORTH OF EXISTING	17 x 7.5	127.50	1	2	--	B	1.6	98	1000	--	--	--	--	--
339A	E1-5P	EXIT 107	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
340	E5-1A(5)	EXIT 107 [A]	90 x 60	37.50	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
340A	JV-F	--	-- x --	--	--	--	--	--	1	1	--	MOVE ASSEMBLY TO SEPARATE POST	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
340B	W5-56(2S)	--	18 x 18	--	2.25	--	--	--	--	--	#340	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
340C	W5-56(2S)	--	18 x 18	--	2.25	--	--	--	--	--	#340	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
341	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
342	D10-3(5)	MILE 109	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
343	E1-1A	[D] BELGIUM 1 MILE	-- x --	--	--	--	--	--	--	--	--	INSTALL 10 FT NORTH OF EXISTING	13 x 10	130.00	1	2	--	B	1.6	98	1000	--	--	--	--	--
343A	E1-5P	EXIT 107	-- x --	--	--	--	--	--	--	--	--	--	9 x 2.5	22.50	--	--	--	--	--	--	--	--	--	--	--	--
344	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
345	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
346	D10-3(5)	MILE 110	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
347	R4-3(5)	--	48 x 60	20.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
348	I2-2	OZAUKEE CO	90 x 21	13.13	--	--	1	2	2	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
349	W5-52R(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
350	D10-3(5)	MILE 111	12 x 48	4.00	--	--	1	1	1	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
351	W5-52L(3)	--	18 x 54	--	6.75	--	1	1	1	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
352	--	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
353	--	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
354	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
355	NOT USED	--	-- x --	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
356	R6-2R(2S)	--	24 x 30	5.00	--	--	--	--	1	--	--	SHEET 58	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
357	M1-94	LAKE DR	60 x 21	8.75	--	--	1	2	2	--	--	SHEET 51	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
358	M1-94	HWY P	54 x 21	7.88	--	--	1	2	2	--	--	SHEET 53	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUP (EA)	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	638.3100 REMOVING STR STEEL SIGN SUP [EA]	638.2101 MOVING SIGNS TYPE I I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
359	M1-94	CEDAR BEACH RD	114 x 21	16.63	--	--	1	2	2	--	--	SHEET 57	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
360	M1-94	SILVER BEACH RD	114 x 21	16.63	--	--	1	2	2	--	--	SHEET 59	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
361	M1-94	JAY RD	60 x 21	8.75	--	--	1	2	2	--	--	SHEET 61	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
362	M1-94	PEBBLE BEACH RD	120 x 21	17.50	--	--	--	--	2	--	--	SHEET 63	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
363	R5-1C(3)	--	36 x 36	9.00	--	--	--	--	--	--	#325	SHEET 58 - CLIP CORNERS TO OCTAGON	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
364	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#325	SHEET 58 - 3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
365	R5-1(3)	--	36 x 36	9.00	--	--	1	1	1	--	--	SHEET 34	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
366	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#365	SHEET 34 - 3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
367	R3-8(2S)	--	36 x 30	7.50	--	--	--	--	--	--	#254	SHEET 39A	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
368	JV3-1	--	-- x --	--	--	--	1	1	--	--	--	SHEET 34 - REMOVE SIGN	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
369	R5-1(3)	--	36 x 36	9.00	--	--	--	--	1	--	--	SHEET 47	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
370	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	#369	SHEET 47 - 3 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
371	E6-51	[43] [57] SOUTH MILWAUKEE GRAFTON	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-45-3 SHEET 40 NEW I-BEAMS INCIDENTAL	17 x 13	221.00	1	--	--	--	--	--	--	--	--	--	--	--
372	R6-2L(2S)	ONE WAY	24 x 30	5.00	--	--	--	--	1	--	--	SHEET 58	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
373	R5-1A(2S)	--	36 x 24	6.00	--	--	--	--	--	--	--	SHEET 39A - MOUNT ON SIGNAL POLE	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
374	JV4-1(5)	--	36 x 90	22.50	--	--	1	1	2	--	--	SHEET 39	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--
	MB3-3	SOUTH	36 x 18																							
	M1-1	IH 43	36 x 36																							
	M1-6	STH 57	36 x 36																							
UNDISTRIBUTED				--	--	--	--	--	--	1				--	--	2	1		1.6	98	1000	--				
TOTALS				2661.06	588.50	29.84	227	247	296	13				7446.500	37	14	1		9.2	558	5600	46				

3

SHEET 12 OF 12

PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

Standard Detail Drawing List

08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08D15-05B	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08D15-05C	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
11A01-05	MAINTENANCE CROSSOVER FOR FREEWAYS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13C09-14A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-14B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-14C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
14B16-04A	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B16-04B	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B18-06B	STEEL PLATE BEAM GUARD, CLASS "A" AT MEDIAN APPROACH TO BRIDGES
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11B	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS
14B20-11C	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO VERTICAL FACED PARAPETS
14B20-11D	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS
14B20-11E	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPES "F" AND "W"
14B20-11F	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPE "M"
14B20-11G	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL
14B20-11H	STEEL THRIE BEAM STRUCTURE APPROACH, SINGLE SLOPE ATTACHMENT
14B24-07A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-07B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-07C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B28-03	GUARDRAIL MOW STRIP
14B42-05A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-03A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A02-09	DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-03A	FLEXIBLE DELINEATOR POST
15A04-03B	DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A04-03C	DELINEATOR POST WITH REFLECTIVE SHEETING
15A04-03D	DELINEATOR WITH REFLECTIVE SHEETING
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C14-03	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C27-02A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C31-03A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-03B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C31-03C	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6

GENERAL NOTES

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

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

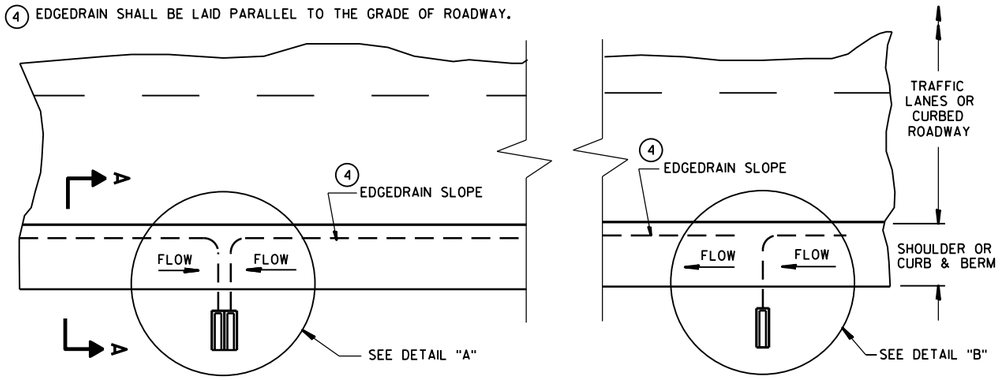
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

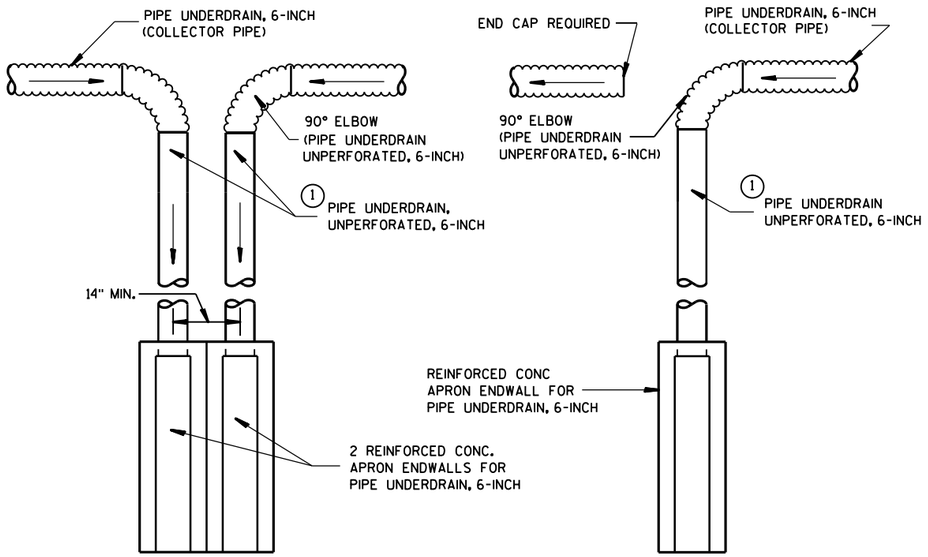
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

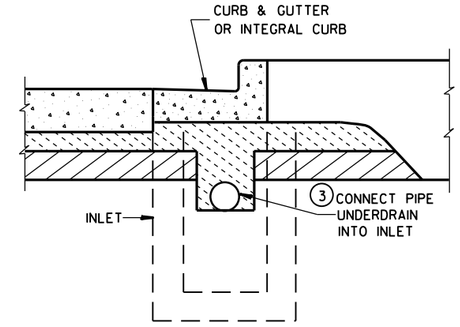
(EDGEDRAIN OUTLETS TO ROADSIDE)(2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

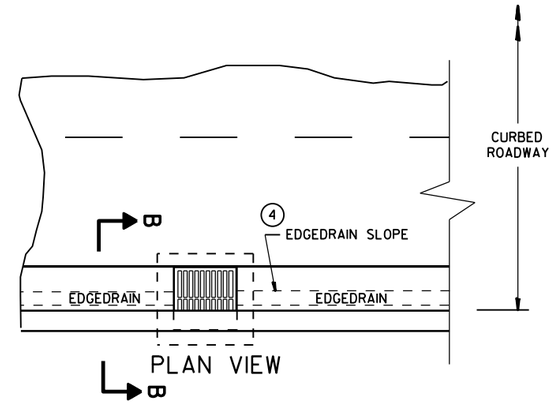
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION B-B

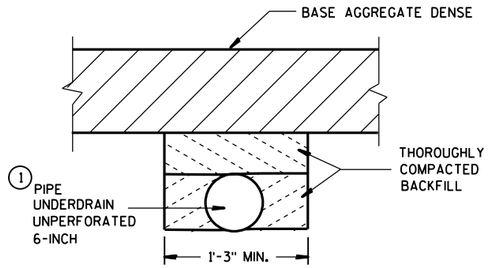
URBAN CROSS SECTION



PLAN VIEW

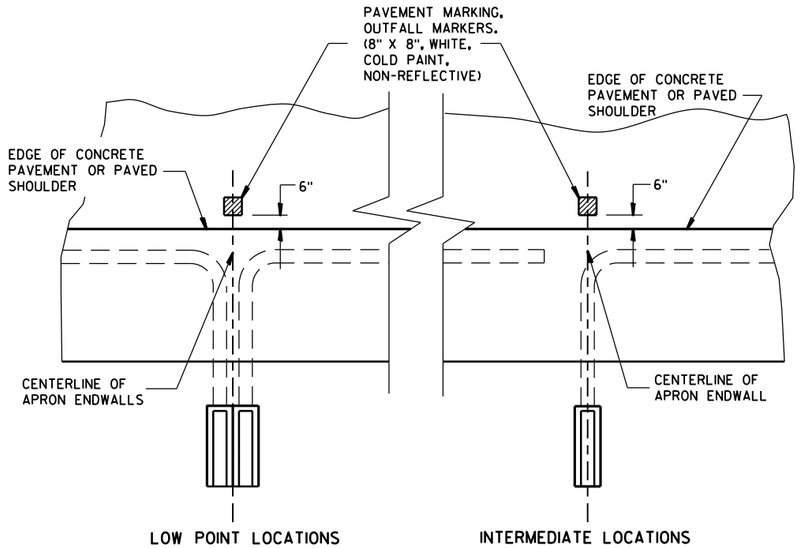
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



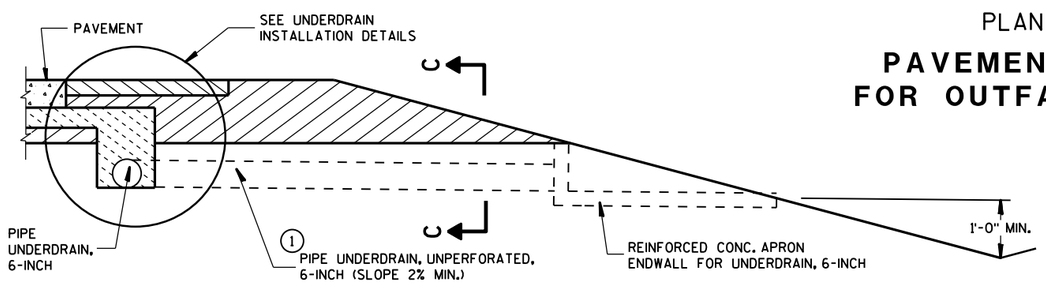
SECTION C-C

(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

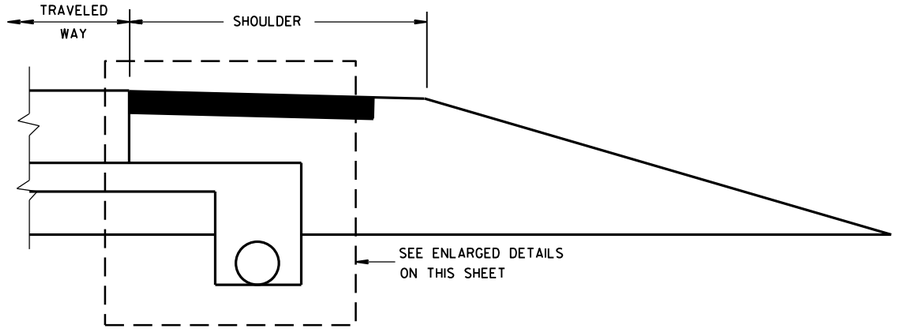
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 15-5a

6

S.D.D. 8 D 15-5a



RURAL CROSS SECTION

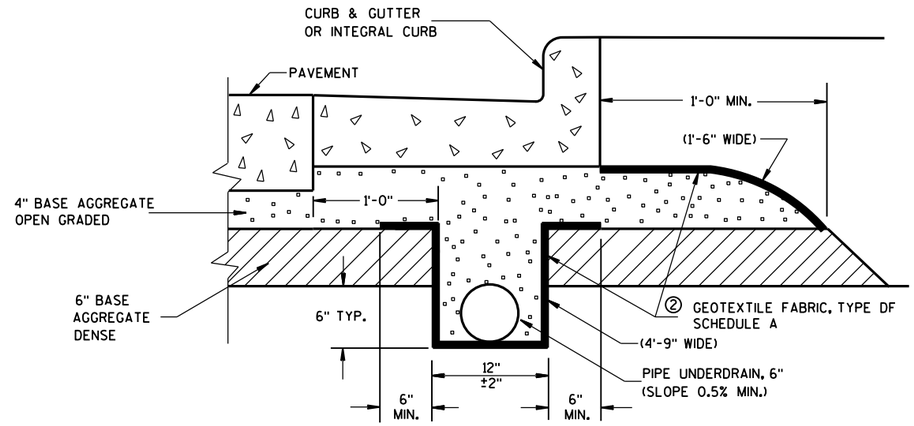
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

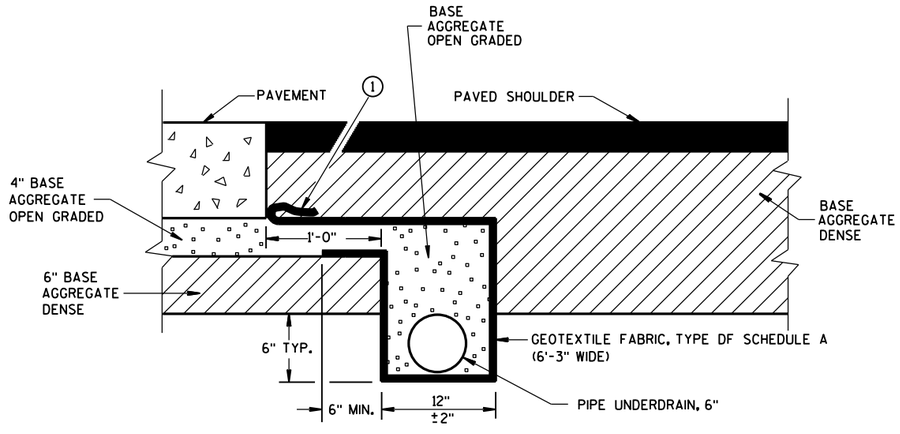
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

① FOLD OVER EXCESS GEOTEXTILE FABRIC AT THIS LOCATION.

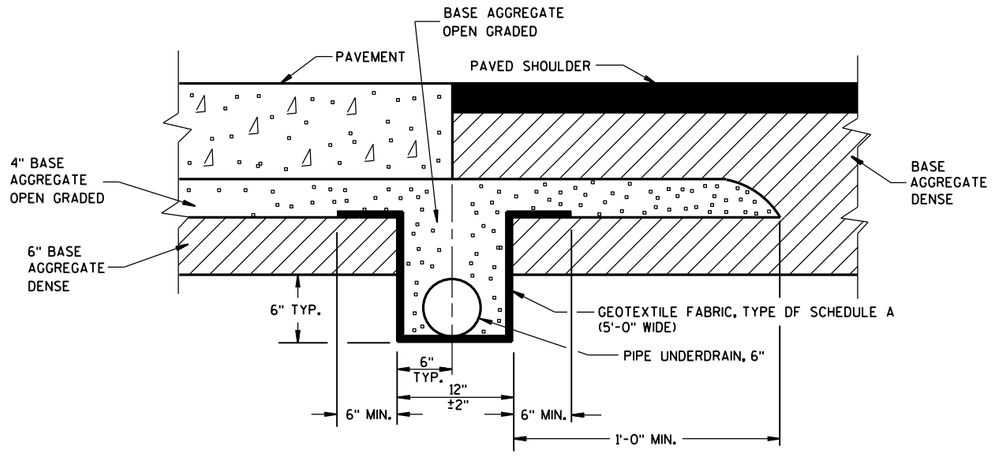
② TOTAL FABRIC WIDTH IS 6'-3" FOR PAYMENT.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATE

EDGEDRAIN IN RURAL ROADWAY

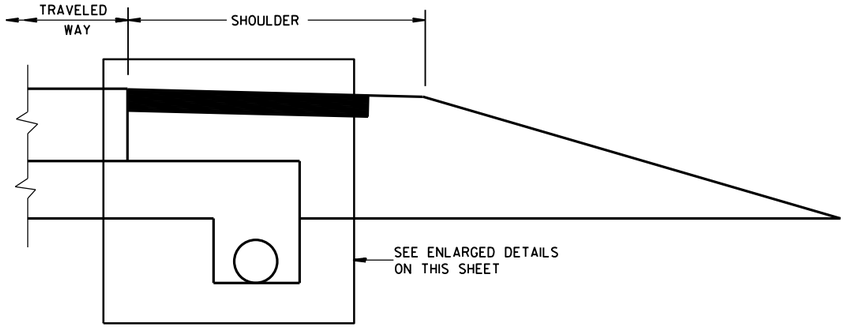
EDGEDRAIN AND BASE AGGREGATE OPEN GRADED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPE
FHWA

6

S.D.D. 8 D 15-5b

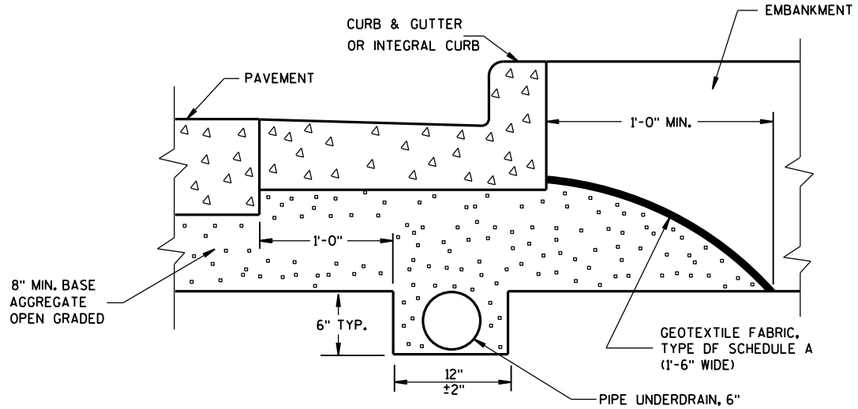


RURAL CROSS SECTION

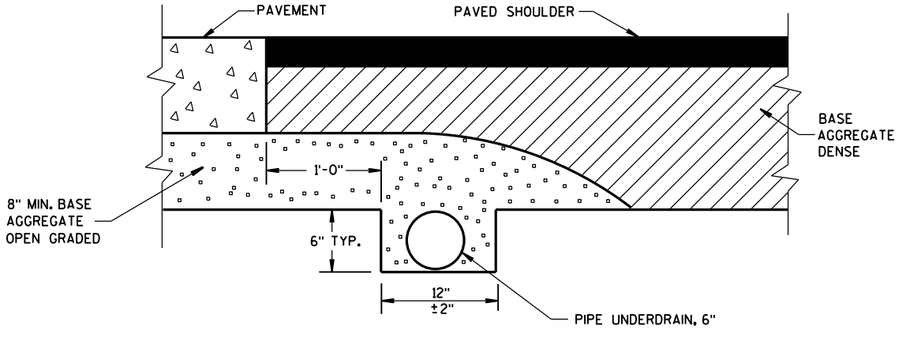
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

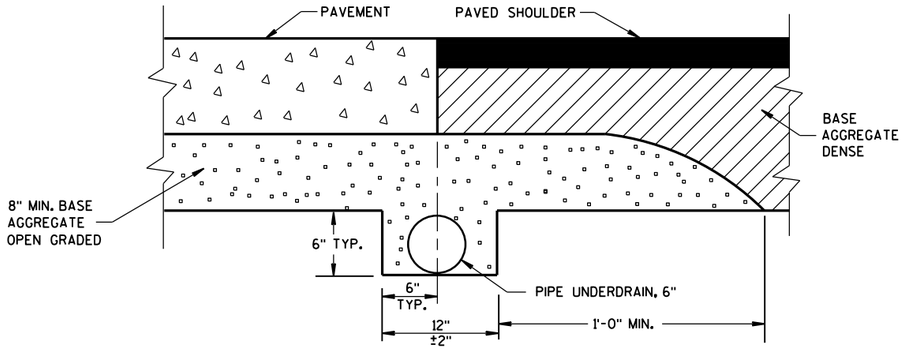
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



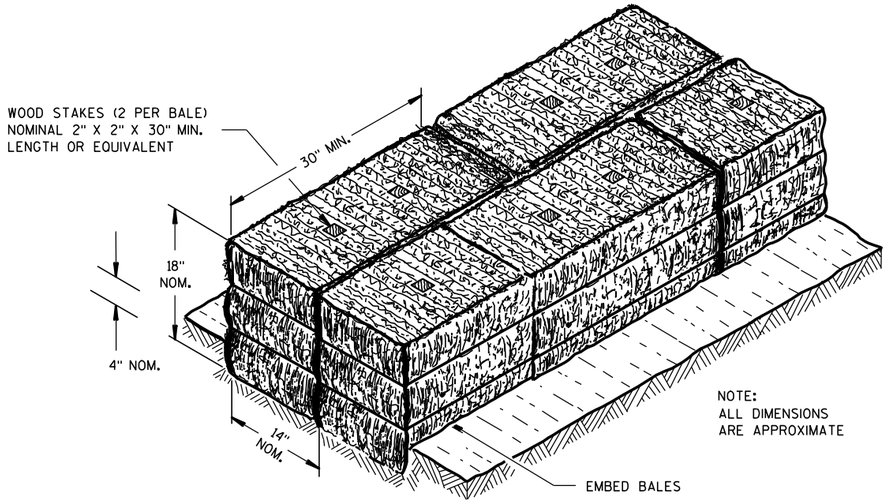
PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

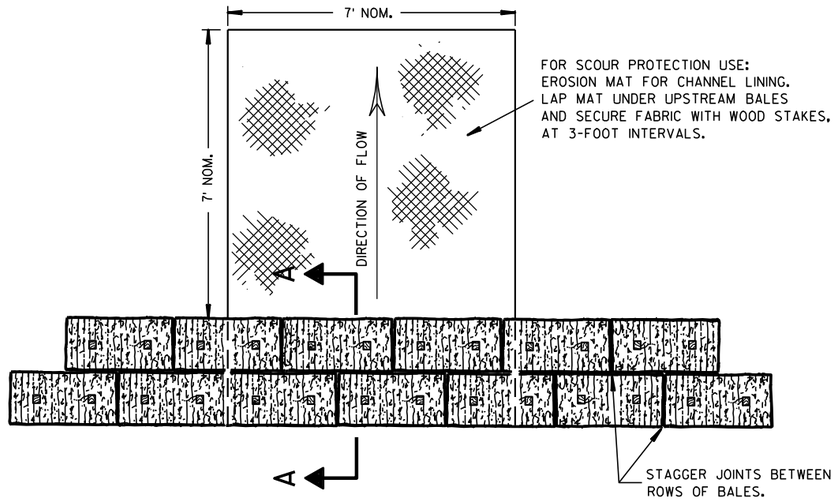
EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED Sept. 2015 — DATE /S/ Peter Kemp, P.E. — PAVEMENT SUPE FHWA

6

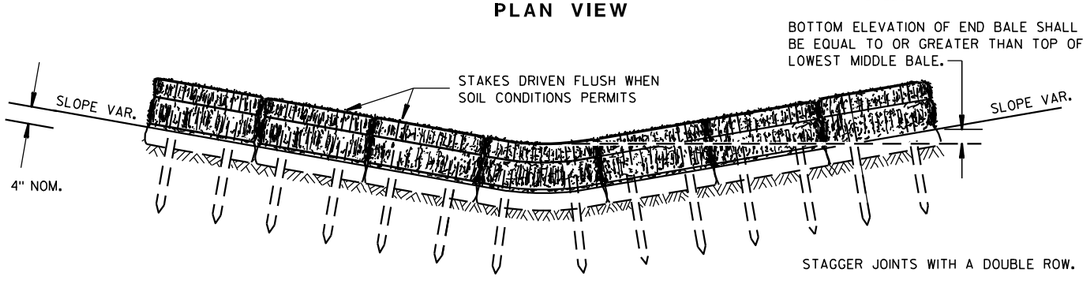
S.D.D. 8 D 15-5c



SECTION A-A



PLAN VIEW



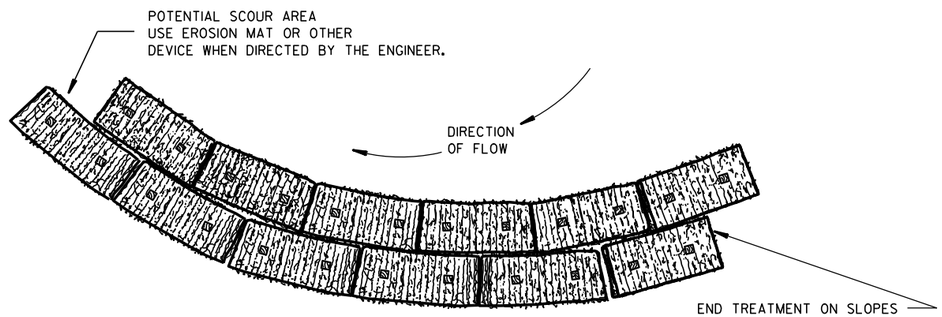
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

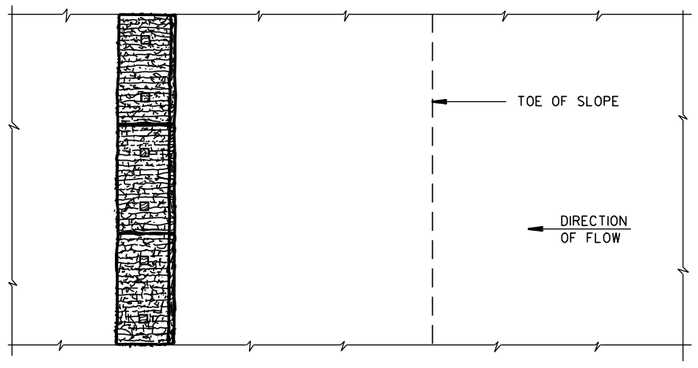
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

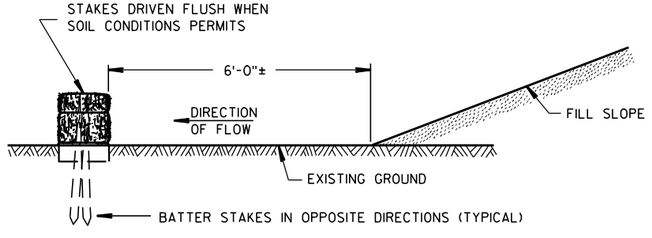


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

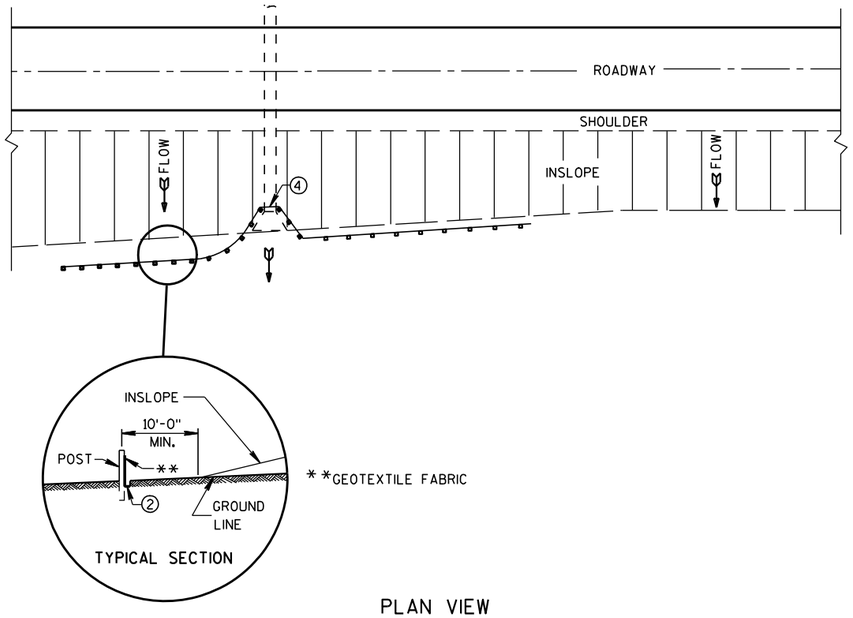
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

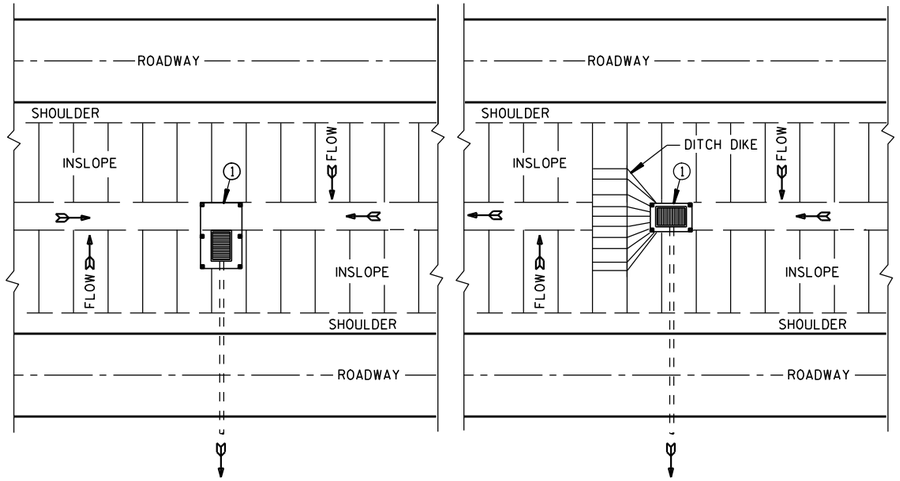
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



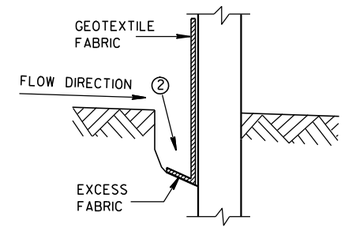
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

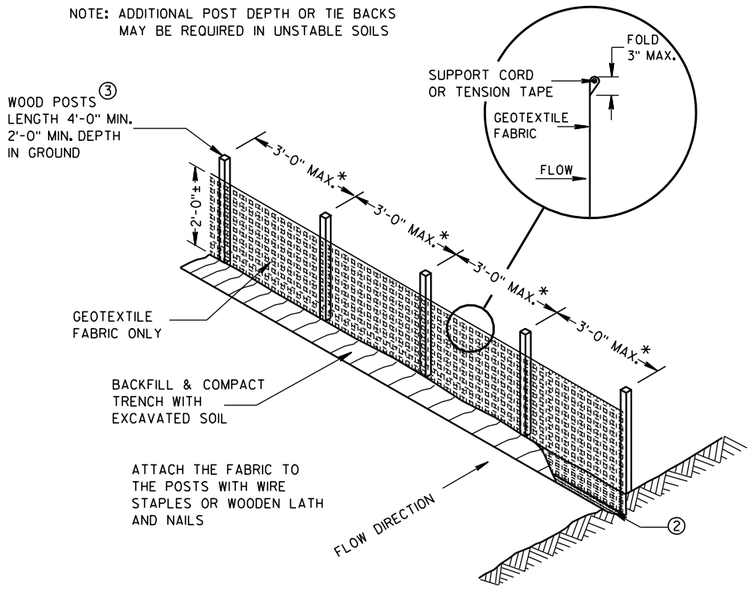
GENERAL NOTES

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

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

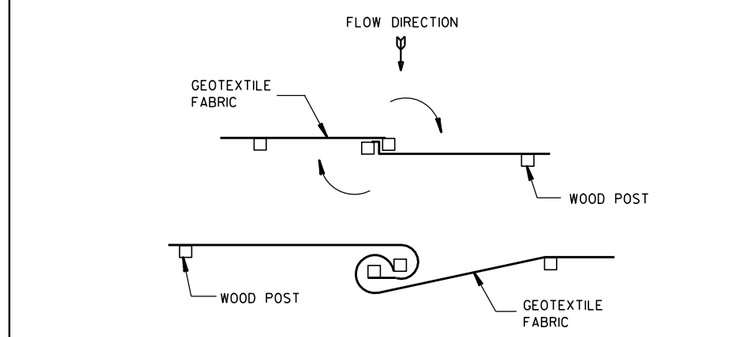


TRENCH DETAIL

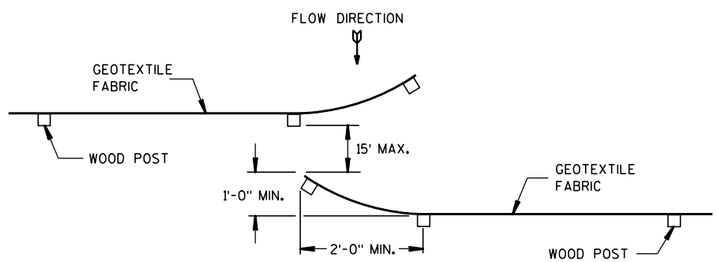


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

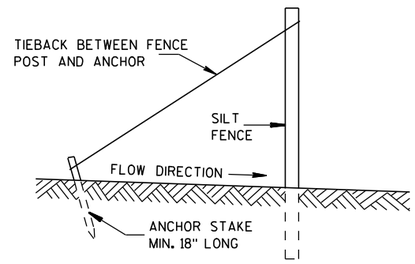


TWIST METHOD



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

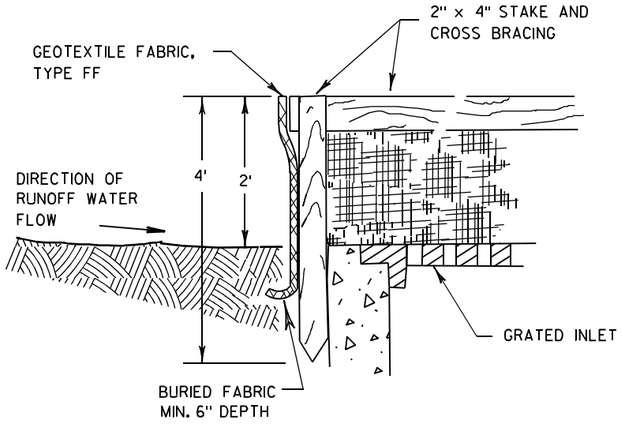
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

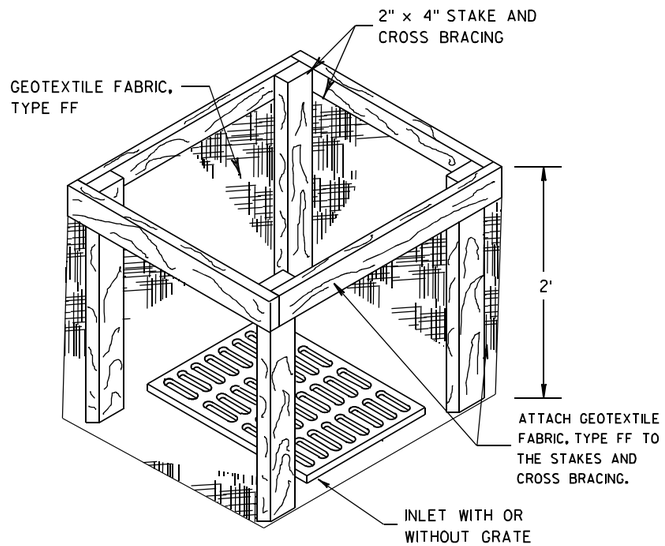
6

S.D.D. 8 E 9-6

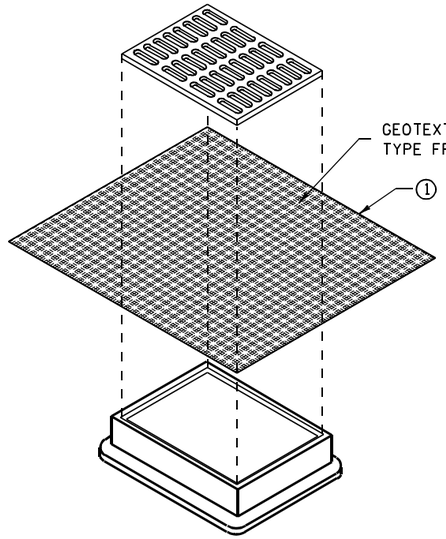
6

S.D.D. 8 E 9-6



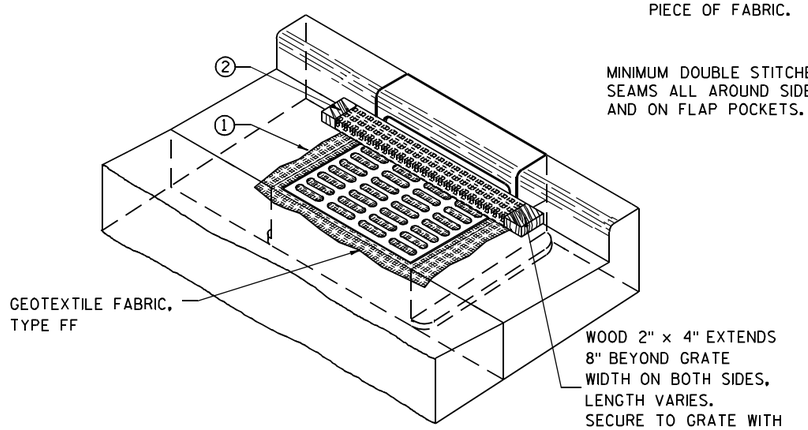


INLET PROTECTION, TYPE A

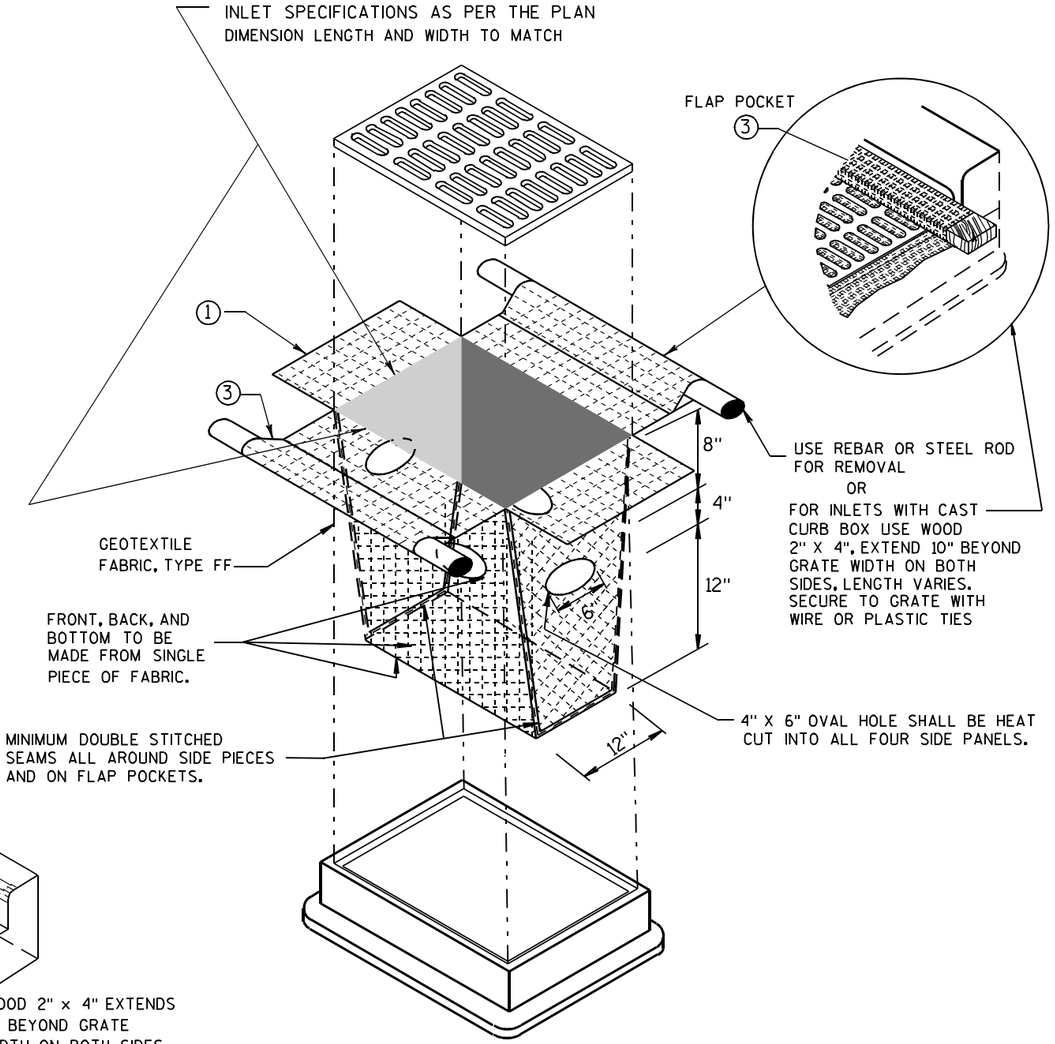


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2

METAL APRON ENDWALLS

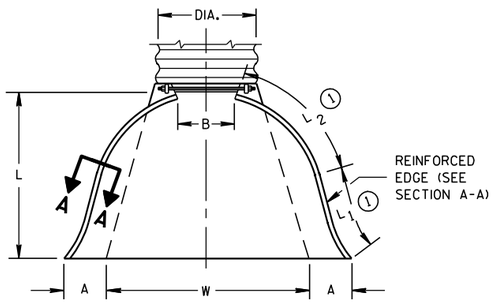
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

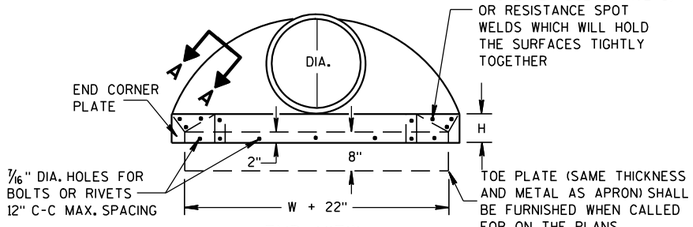
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

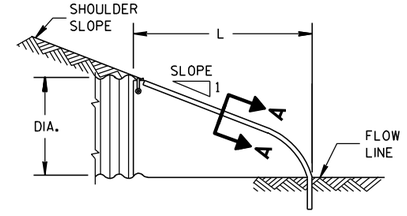
* MINIMUM
** MAXIMUM



PLAN VIEW

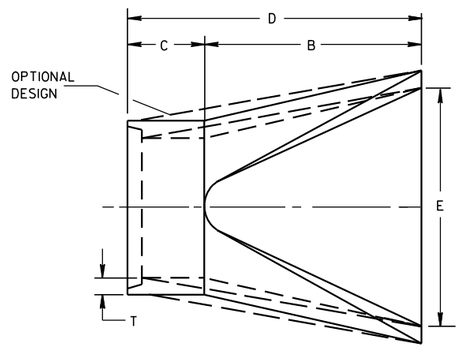


END VIEW

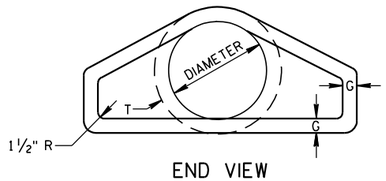


SIDE ELEVATION

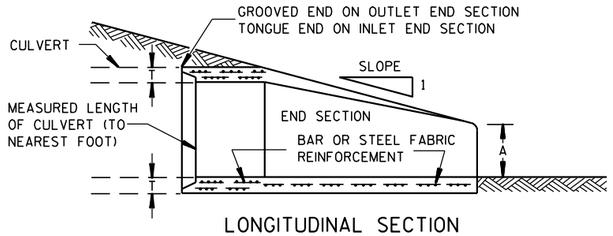
METAL ENDWALLS



PLAN

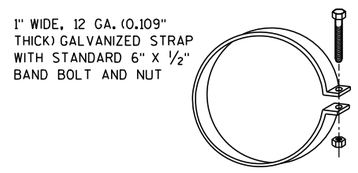


END VIEW



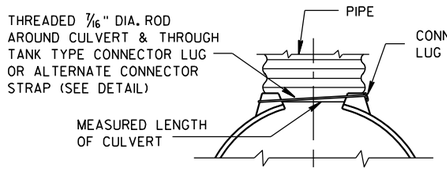
LONGITUDINAL SECTION

CONCRETE ENDWALLS

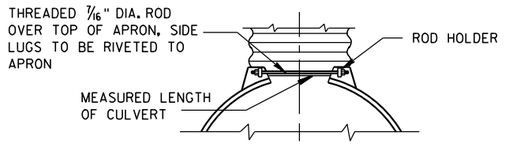


ALTERNATE FOR TYPE 1 CONNECTION

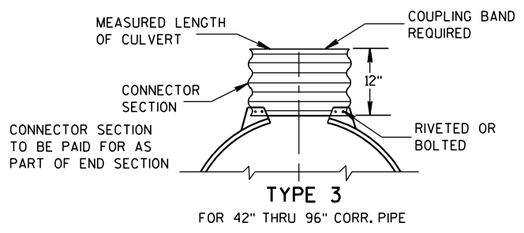
END SECTION CONNECTOR STRAP



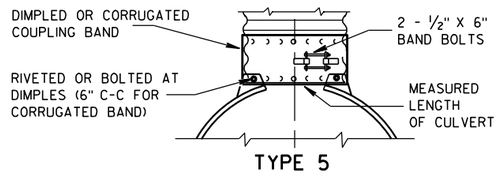
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

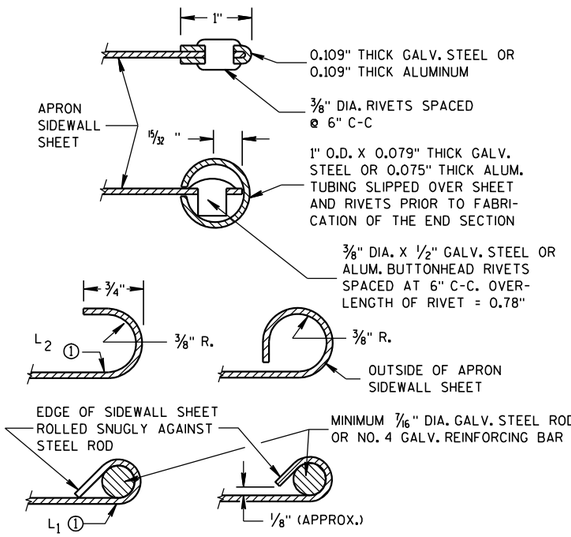
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

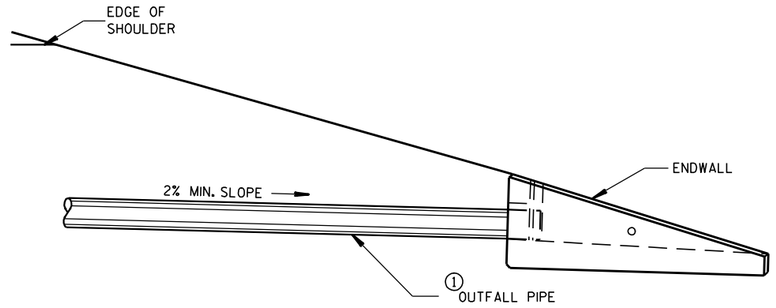
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 217 NEER
FHWA

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

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

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

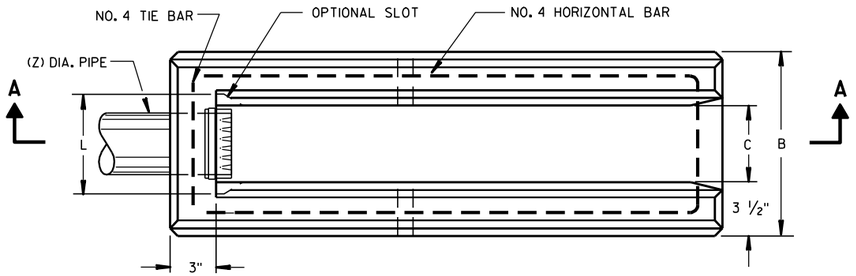
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

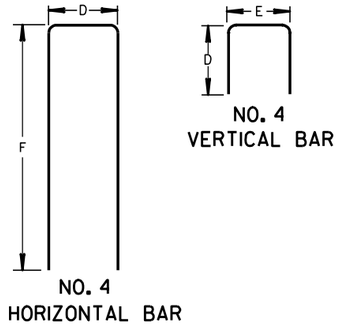
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

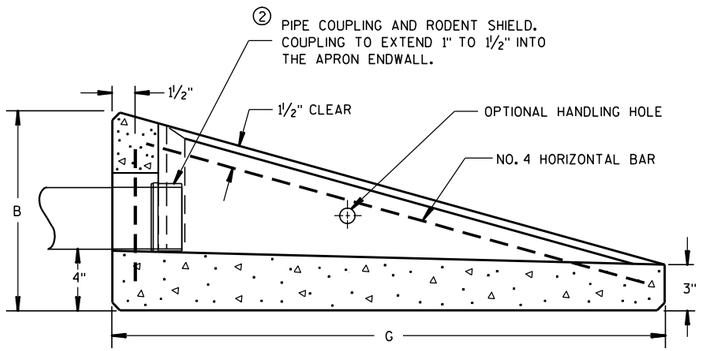
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



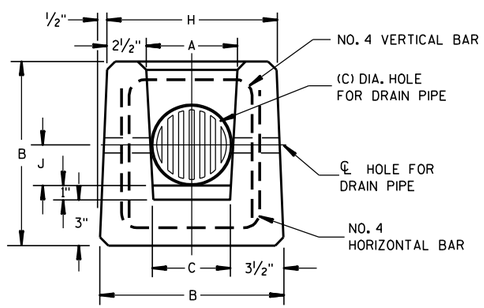
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

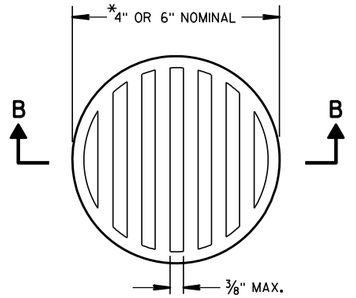


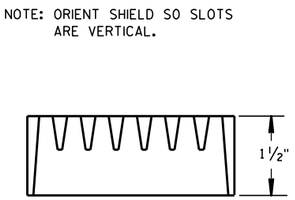
SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN





SECTION B-B

② RODENT SHIELD

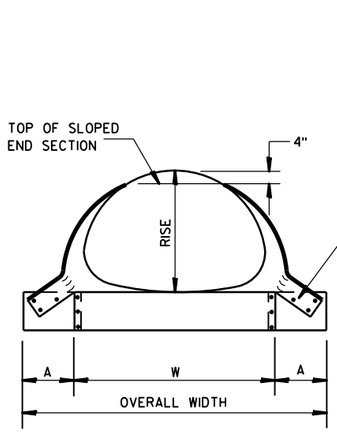
*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

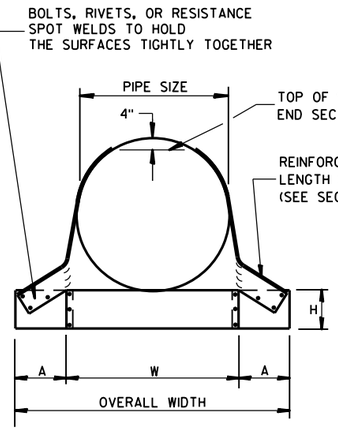
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

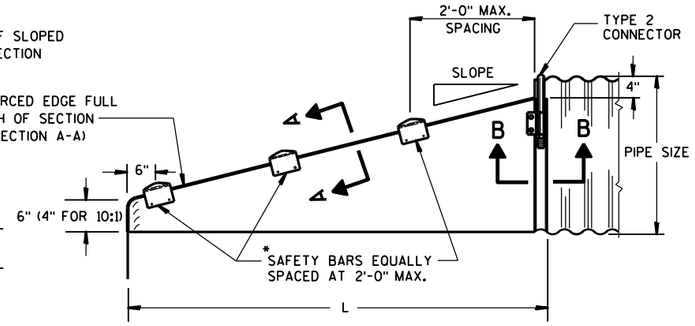
6
S.D.D. 8 F 6-4



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

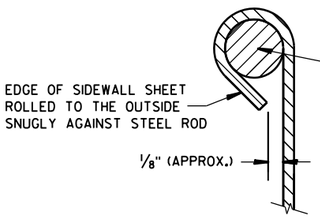
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

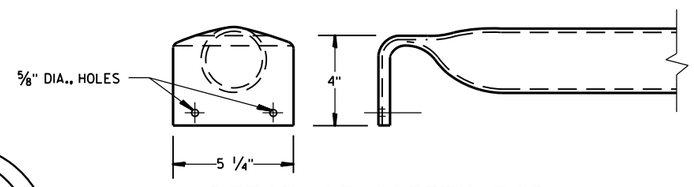
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

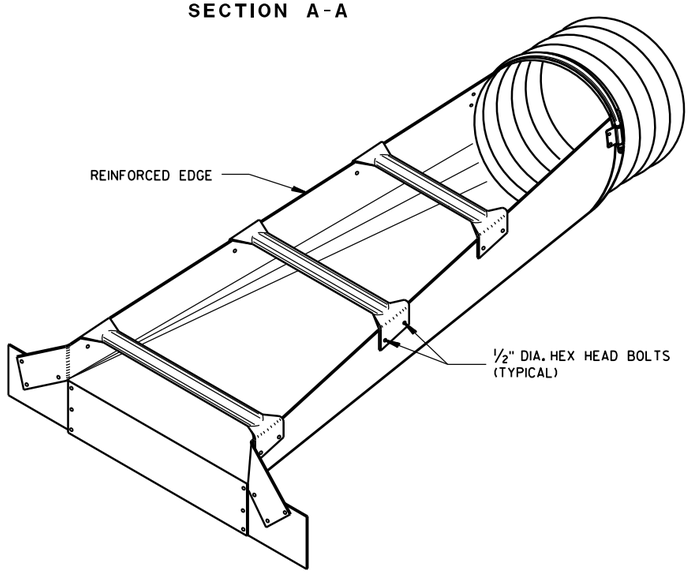


DETAIL OF SAFETY BAR

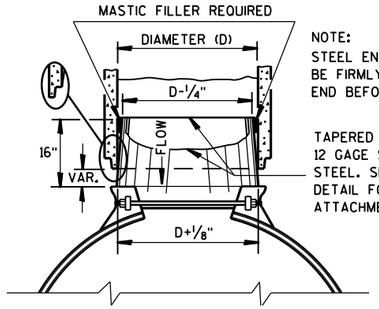
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

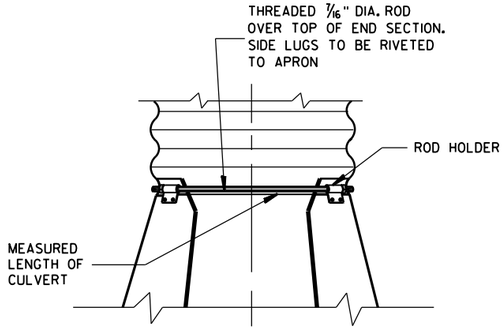
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



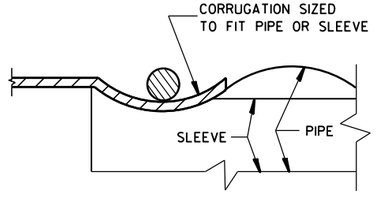
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

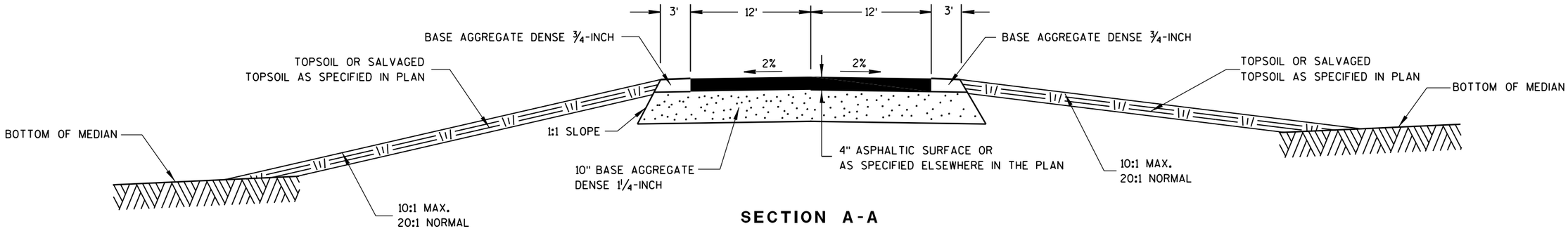
APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

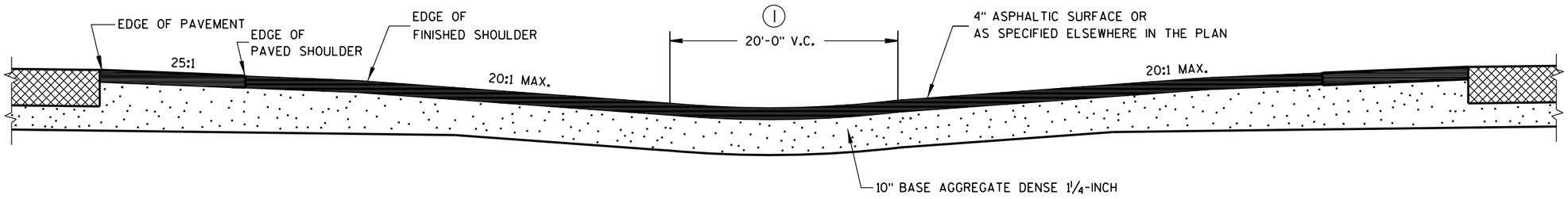
S.D.D. 8 F 7-5

6

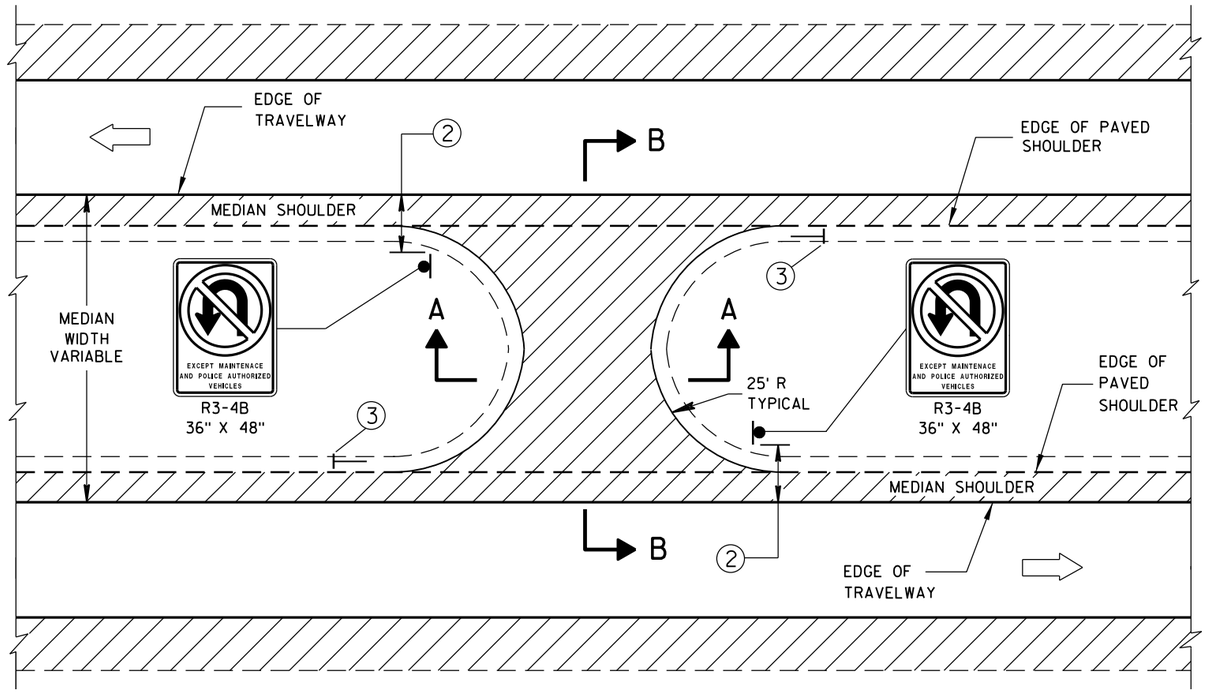
S.D.D. 8 F 7-5



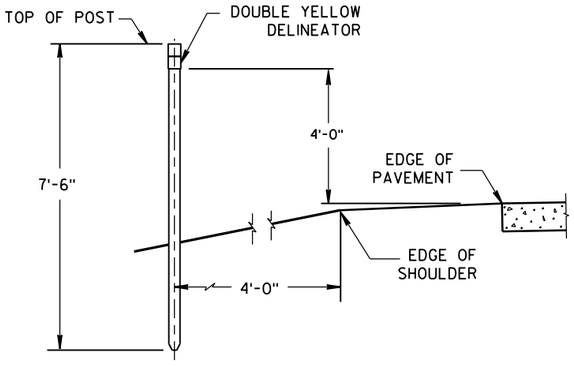
SECTION A-A



SECTION B-B



PLAN VIEW



DOUBLE YELLOW DELINEATOR INSTALLATION

GENERAL NOTES

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

(1) ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.

(2) SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

(3) INSTALL DOUBLE YELLOW DELINEATOR. SEE STANDARD DETAIL DRAWING 15A2.

MAINTENANCE CROSSOVER FOR FREEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

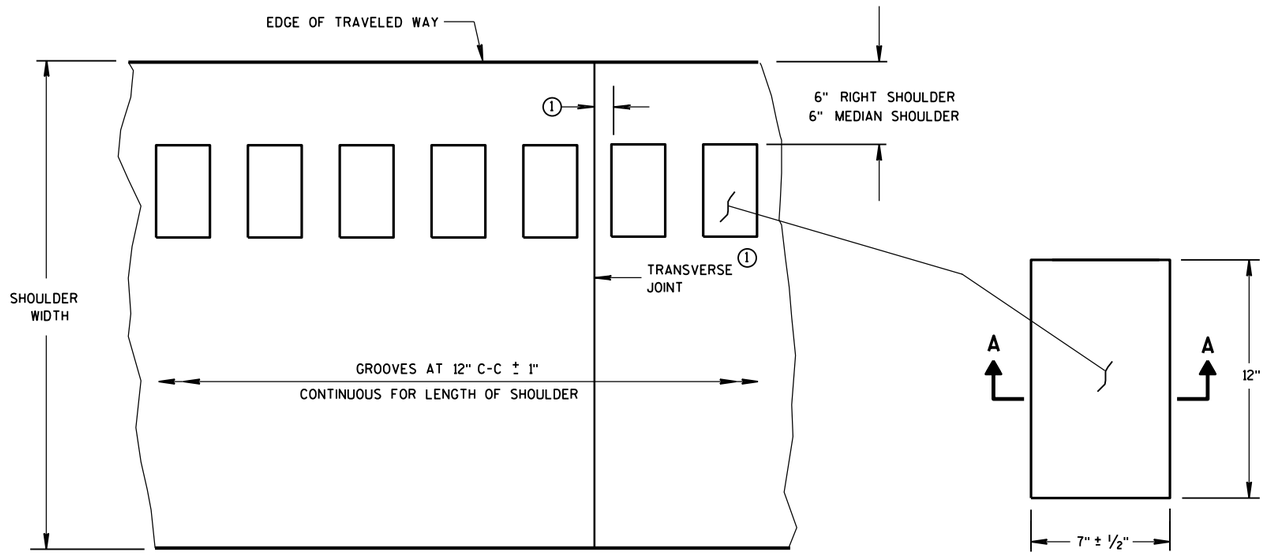
FHWA

6

S.D.D. 11 A 1-5

6

S.D.D. 11 A 1-5



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

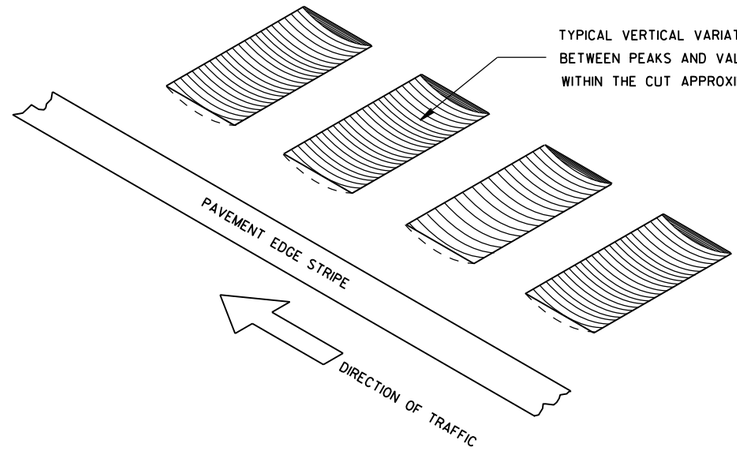
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

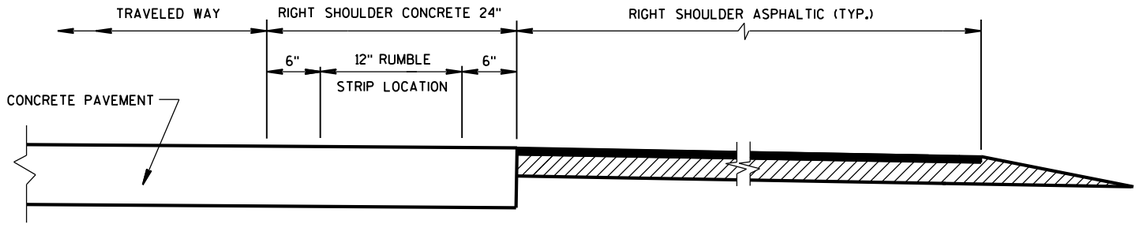
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

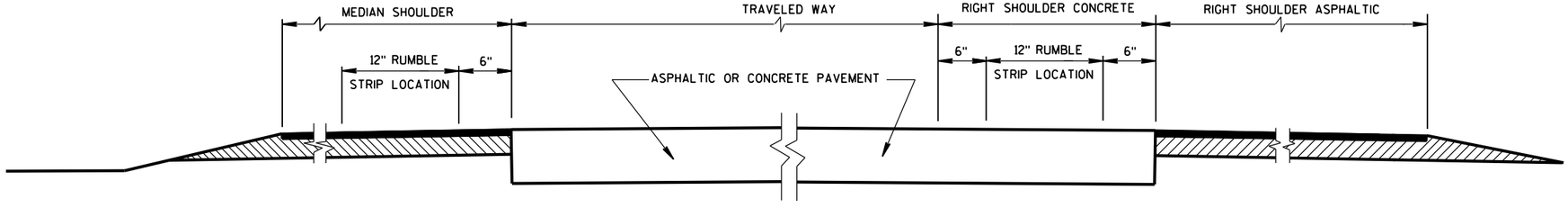
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



ISOMETRIC



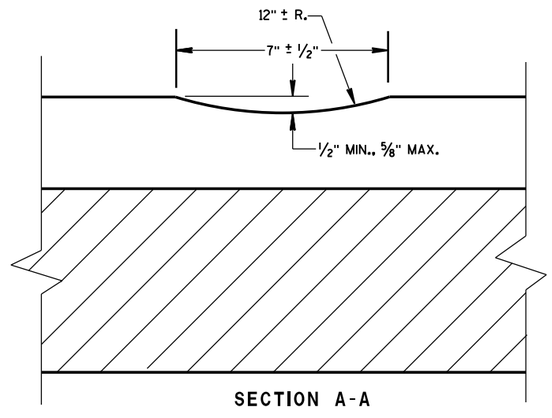
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

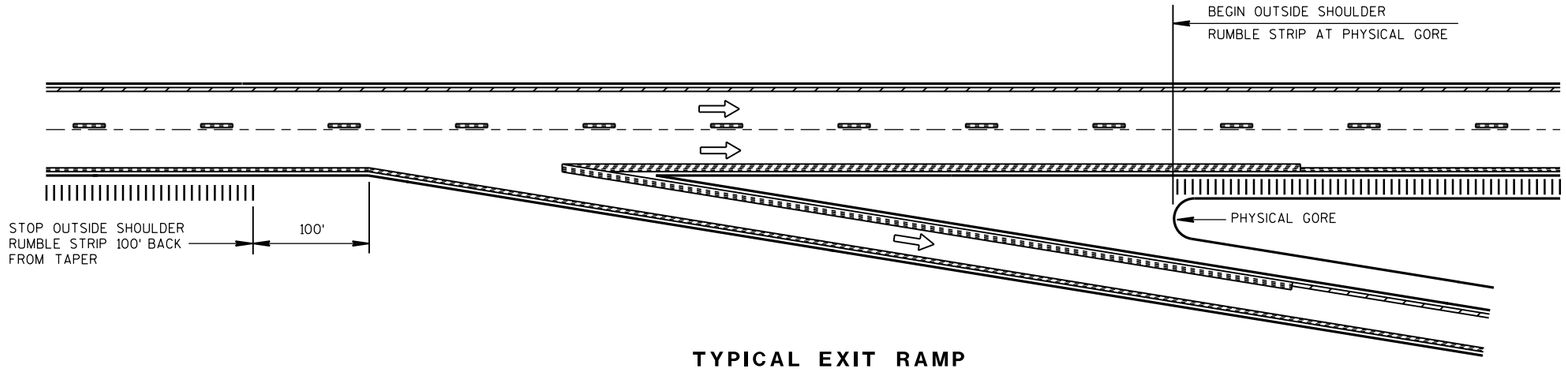
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 A 5-5a

6

S.D.D. 13 A 5-5a



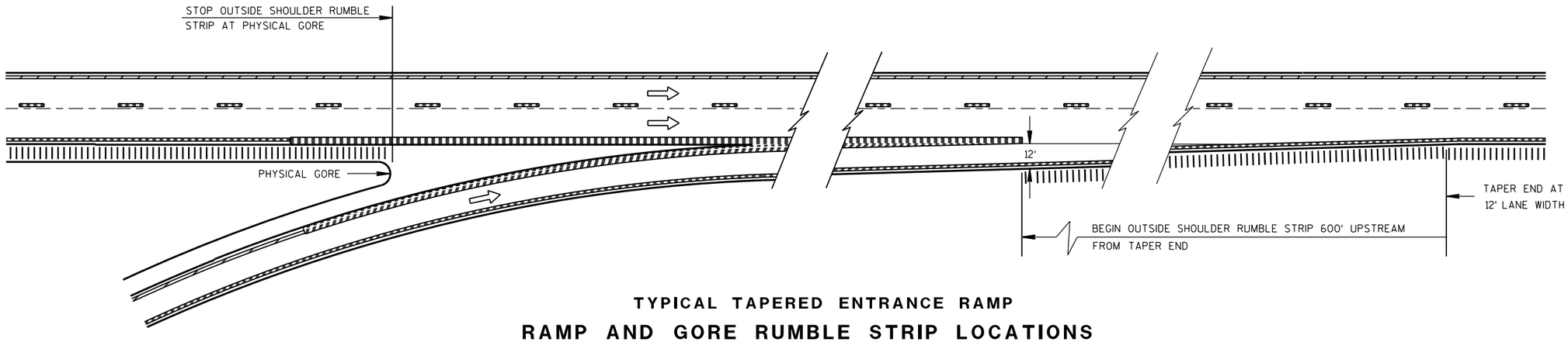
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

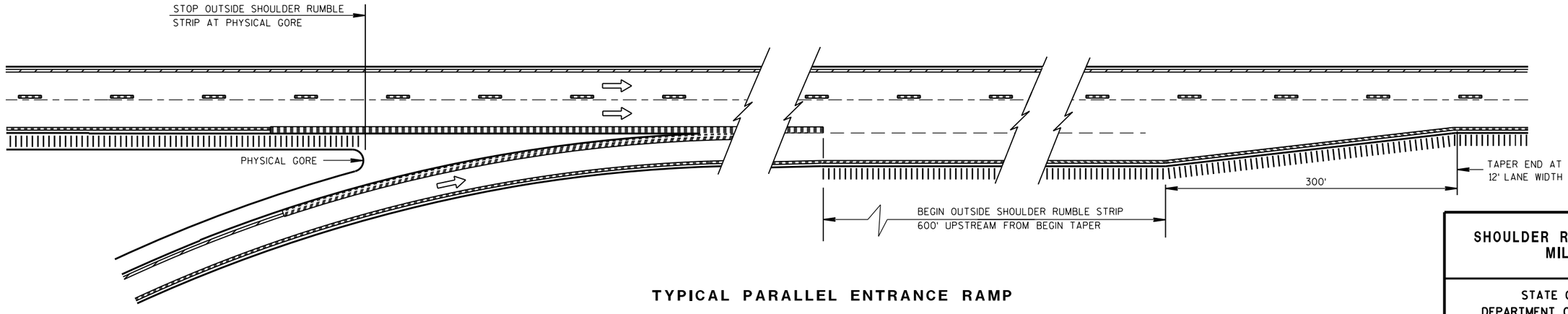
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

FHWA

6

S.D.D. 13 A 5-5b

6

S.D.D. 13 A 5-5b

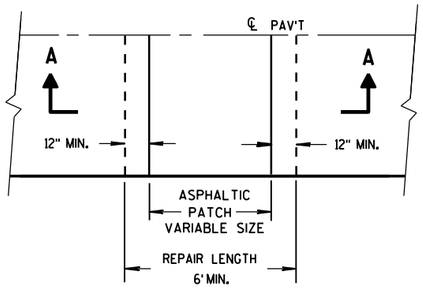
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

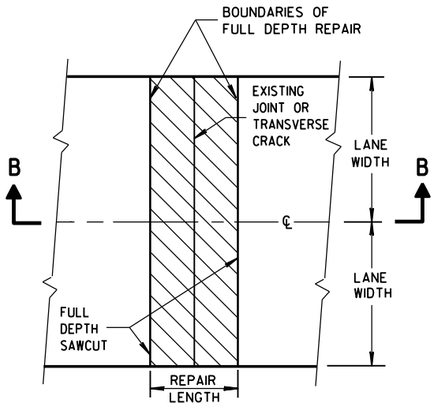
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

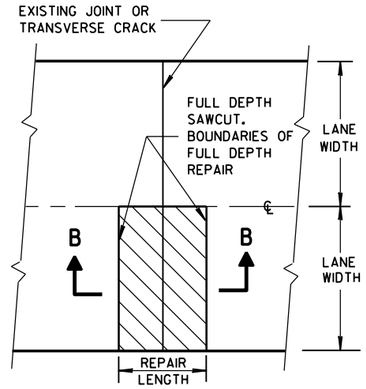
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

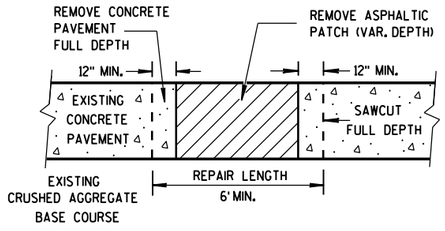


PLAN VIEW
(DOUBLE LANE REPAIR)



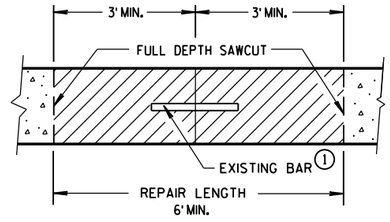
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

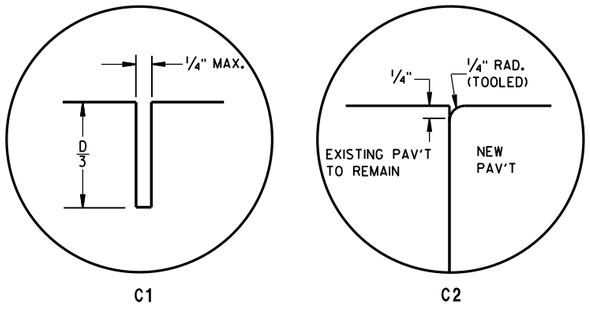
CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

S.D.D. 13 C 9-14a



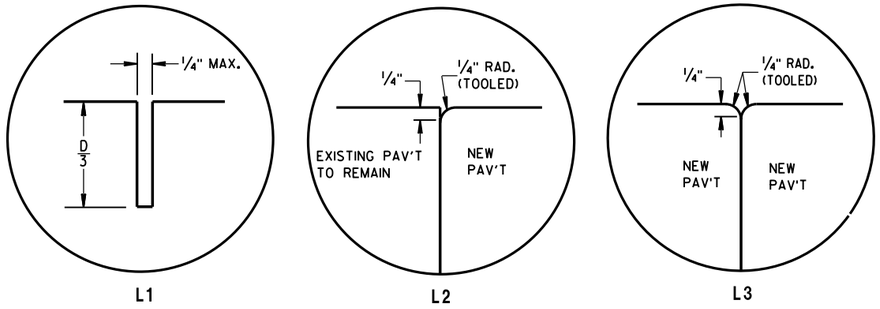
TRANSVERSE JOINTS

TIE BAR TABLE

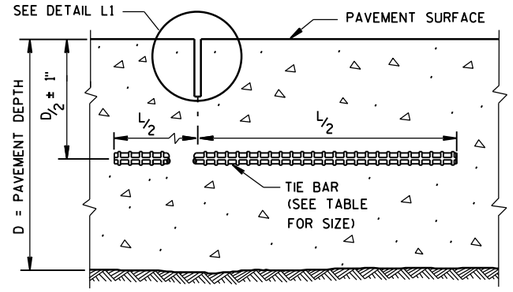
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

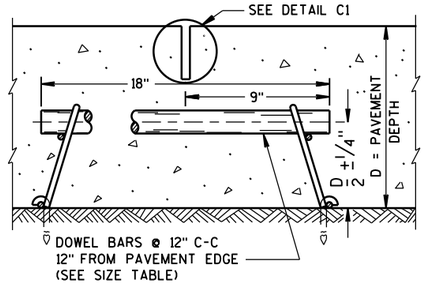
CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

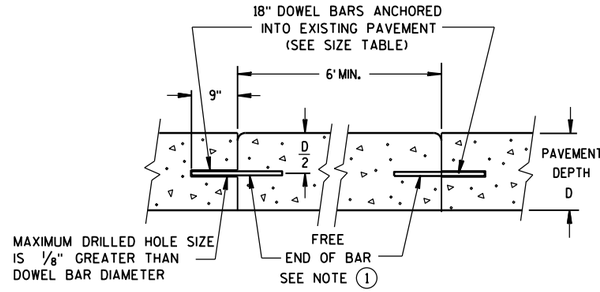
FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

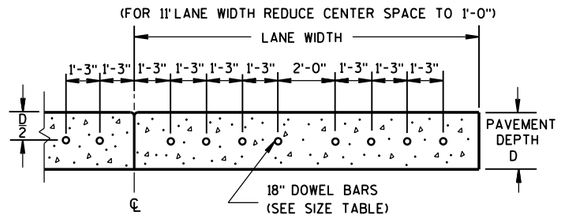


SECTION F-F

CONTRACTION JOINT



SECTION D-D

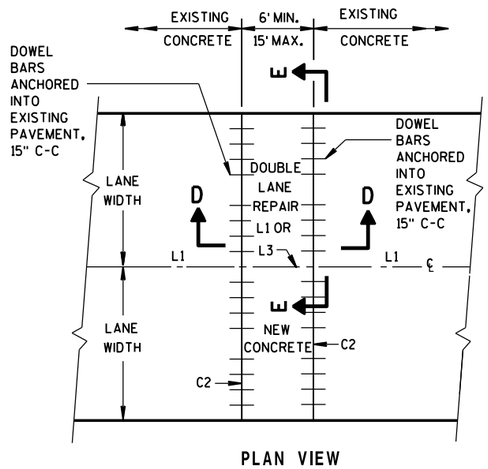


SECTION E-E

DRILLED DOWEL BAR CONSTRUCTION JOINT

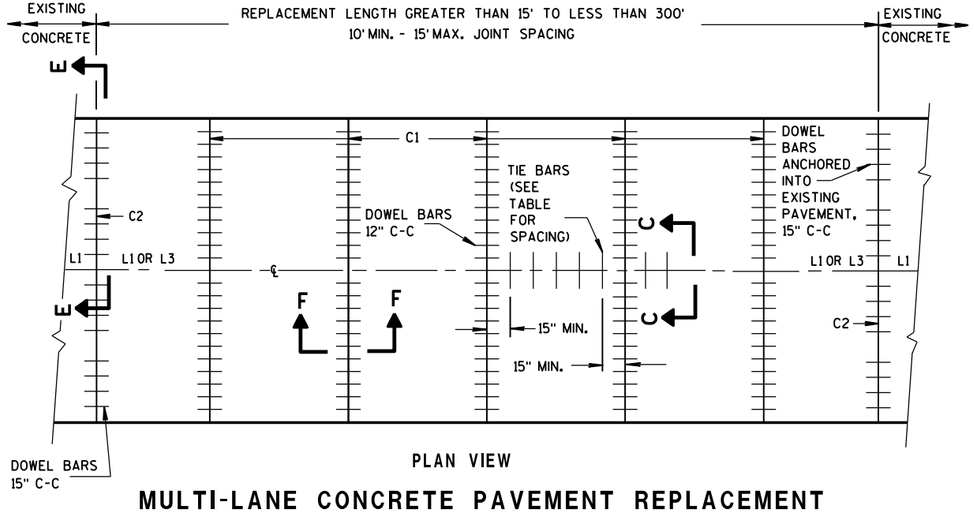
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6",6 ½"	NONE	NONE	12'
7",7 ½"	1"	1"	14'
8",8 ½"	1¼"	1¼"	15'
9",9 ½"	1¼"	1¼"	15'
10" & ABOVE	1½"	1¼"	15'



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



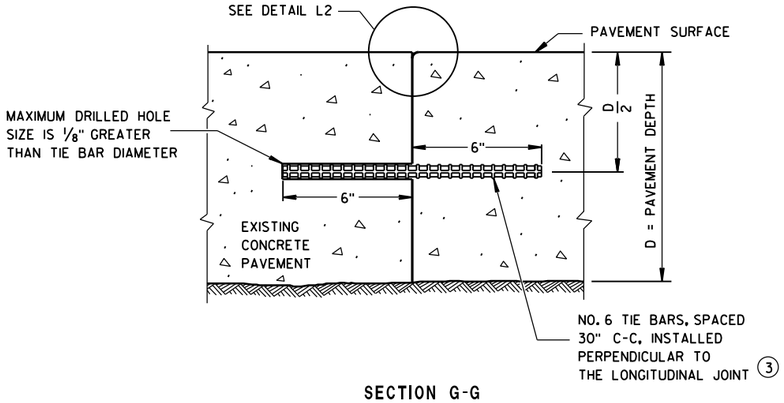
PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 13 C 9-14b



SECTION G-G

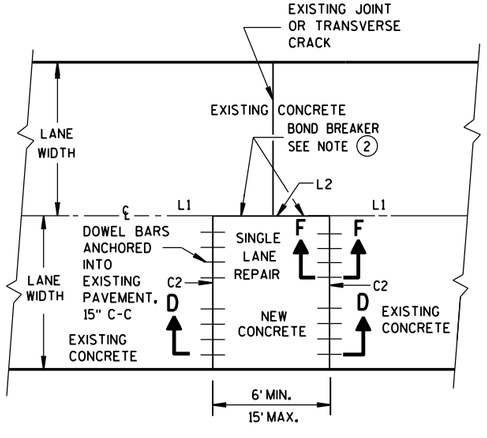
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

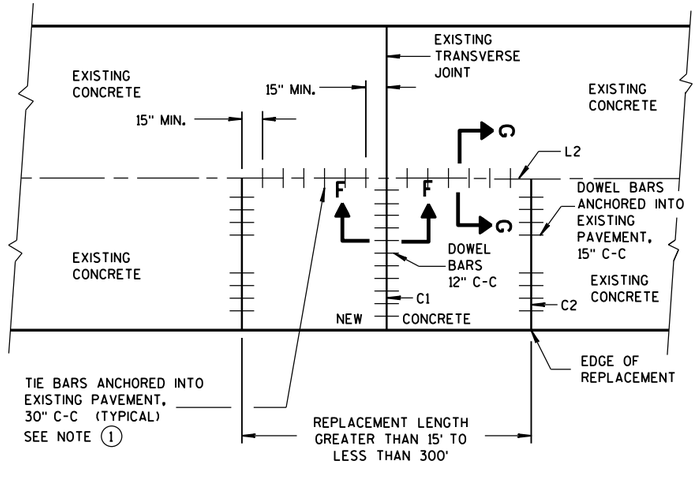
(2) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

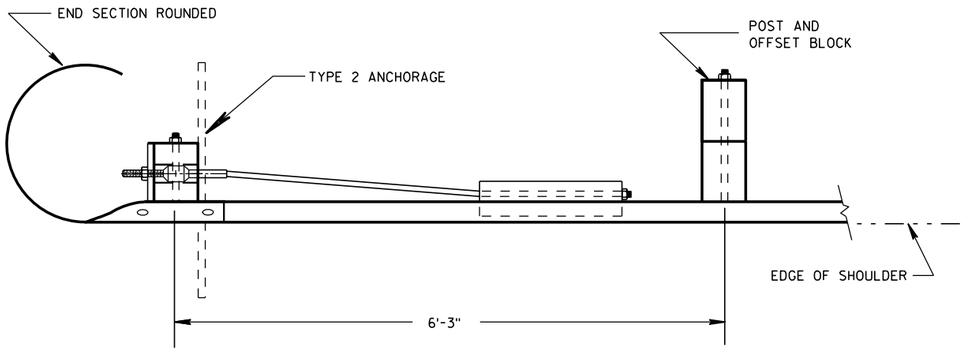
CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

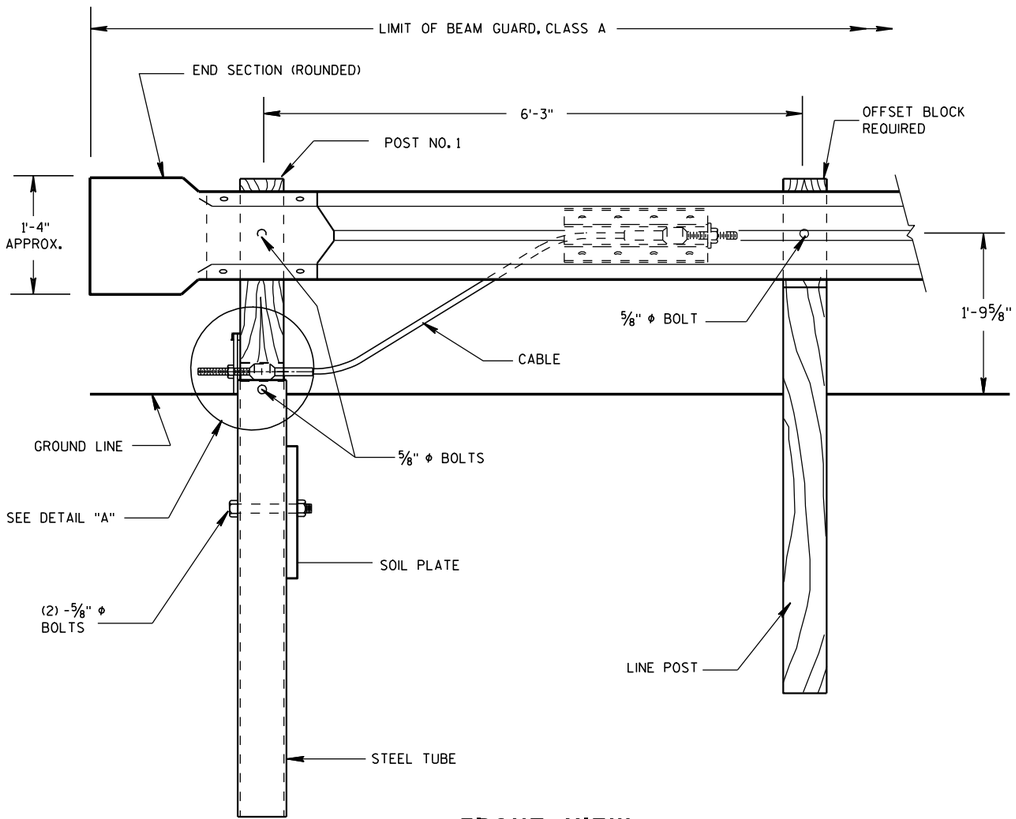
APPROVED
March, 2017 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

6

S.D.D. 13 C 9-14c



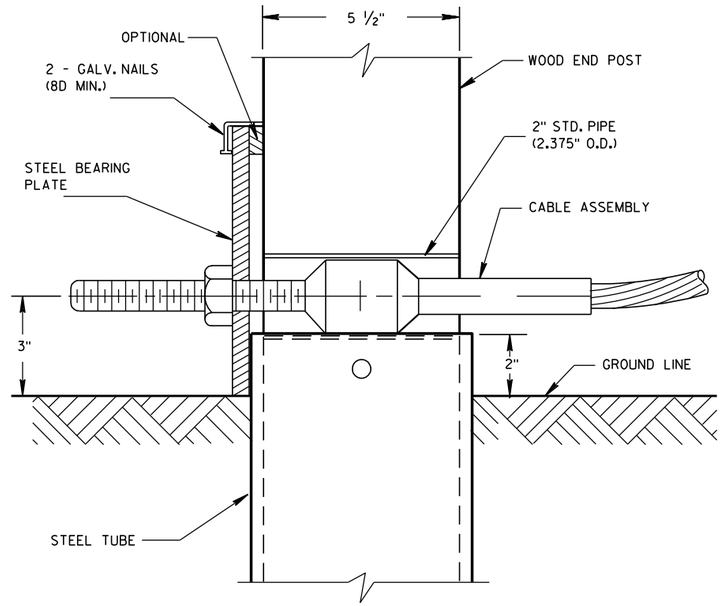
PLAN VIEW



FRONT VIEW

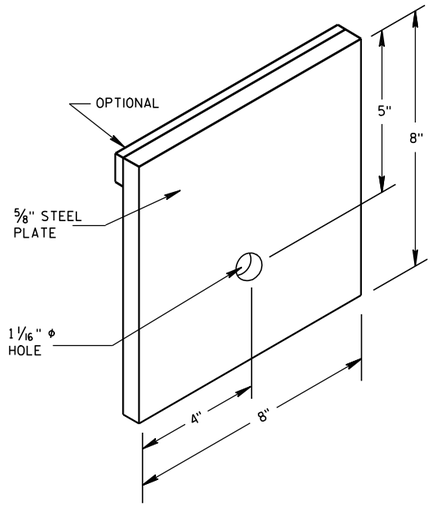
END TREATMENT WITH TYPE 2 ANCHORAGE

(USE ON ONE-WAY ROADWAYS ONLY - DEPARTING END)



DETAIL "A"

POST NO. 1



STEEL BEARING PLATE

ANCHORAGE FOR STEEL
PLATE BEAM GUARD
TYPE 2

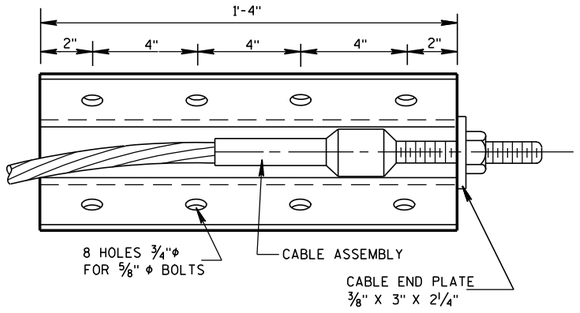
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO.....T

6

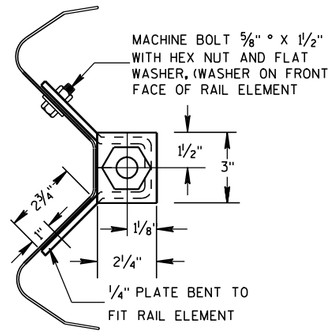
S.D.D. 14 B 16-4a

6

S.D.D. 14 B 16-4a

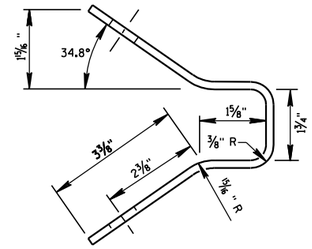


FRONT VIEW

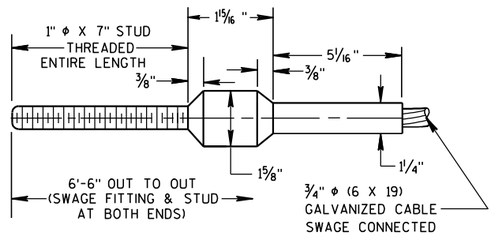


END VIEW

ANCHOR PLATE DETAIL



END VIEW OF BRACKET



CABLE ASSEMBLY

CABLE, SWAGE FITTING, STUD AND NUT SHALL DEVELOP
A MINIMUM BREAKING STRENGTH OF 40,000 LB
(TIGHTEN UNTIL TAUT)

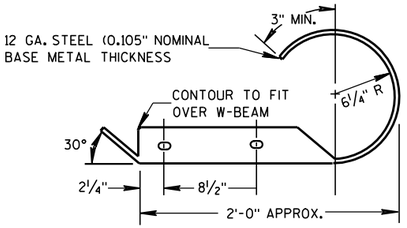
GENERAL NOTES

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

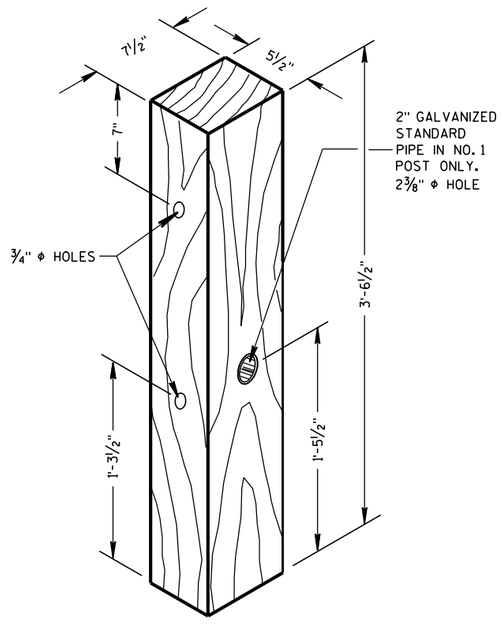
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500 GRADE B OR ASTM A-501.

POST NO. 1 SHALL BE WOOD BREAKAWAY POST INSERTED AND BOLTED INTO STEEL TUBE.

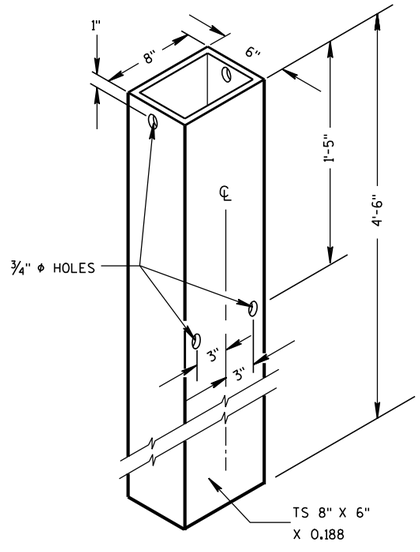
TYPE 2 ANCHORAGE SHALL CONSIST OF A STEEL TUBE, SOIL PLATE WOOD BREAKAWAY POST, BEARING PLATE, ANCHOR PLATE, CABLE ASSEMBLY AND ALL ASSOCIATED HARDWARE, ALL STEEL PARTS SHALL BE GALVANIZED.



PLAN VIEW

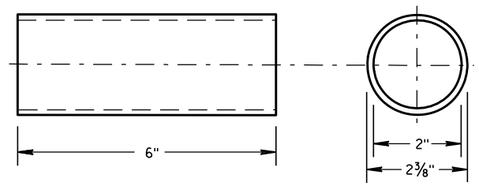


WOOD BREAKAWAY POST



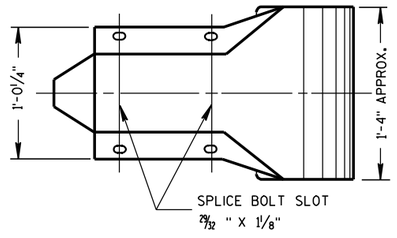
STEEL TUBE

STEEL TUBE SHALL CONFORM TO
REQUIREMENTS OF ASTM A500

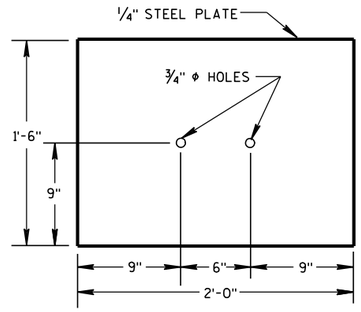


BREAKAWAY TERMINAL POST SLEEVE

GALVANIZED STANDARD STRENGTH STEEL PIPE, ASTM 53 GRADE "B"



FRONT VIEW
W BEAM END SECTION ROUNDED



SOIL PLATE

ANCHORAGE FOR STEEL
PLATE BEAM GUARD
TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

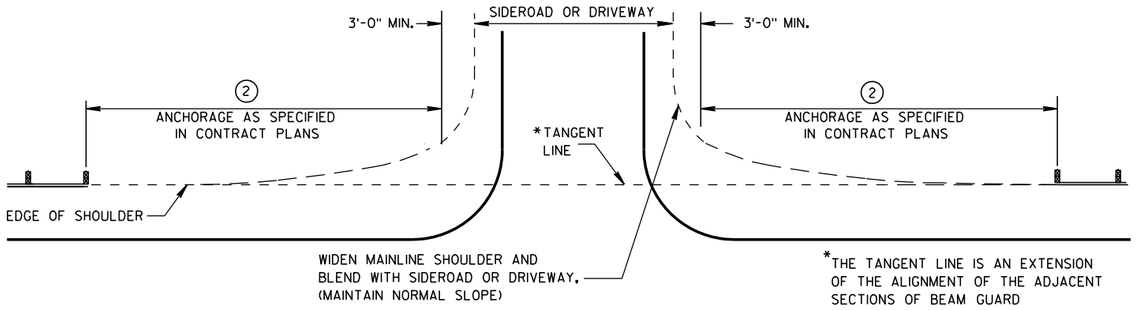
APPROVED
8/21/2007
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
227
ENT
FHWA

6

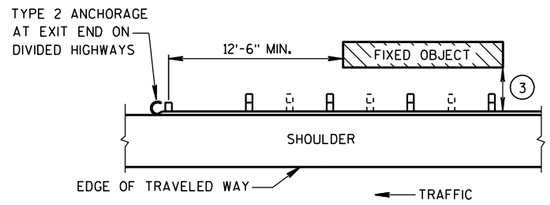
S.D.D. 14 B 16-4b

6

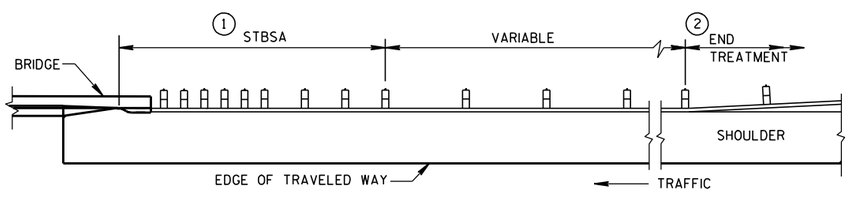
S.D.D. 14 B 16-4b



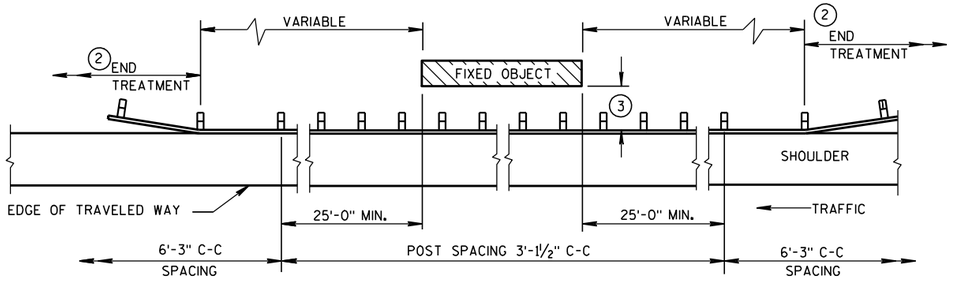
BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

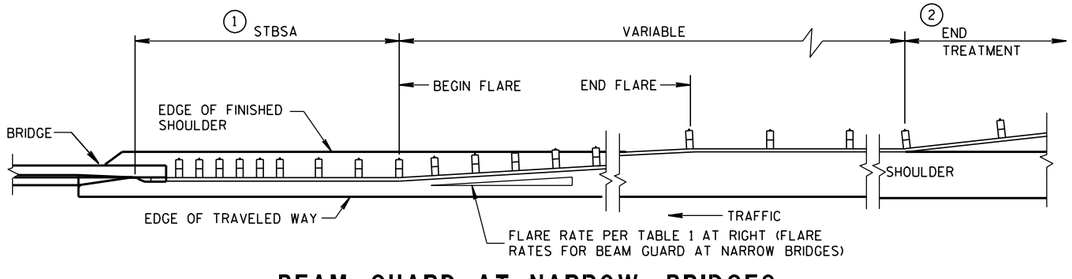


BEAM GUARD AT FULL WIDTH BRIDGES



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

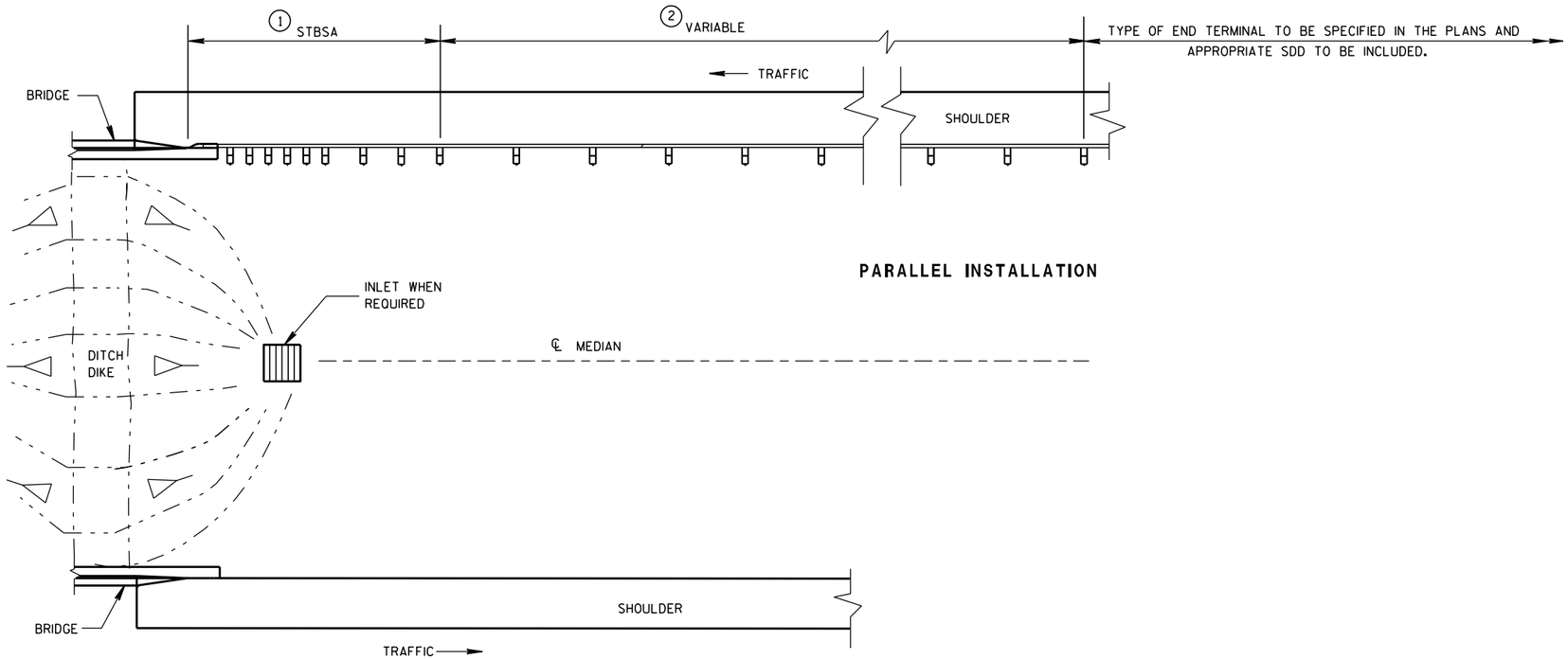
8-21-07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

GENERAL NOTES

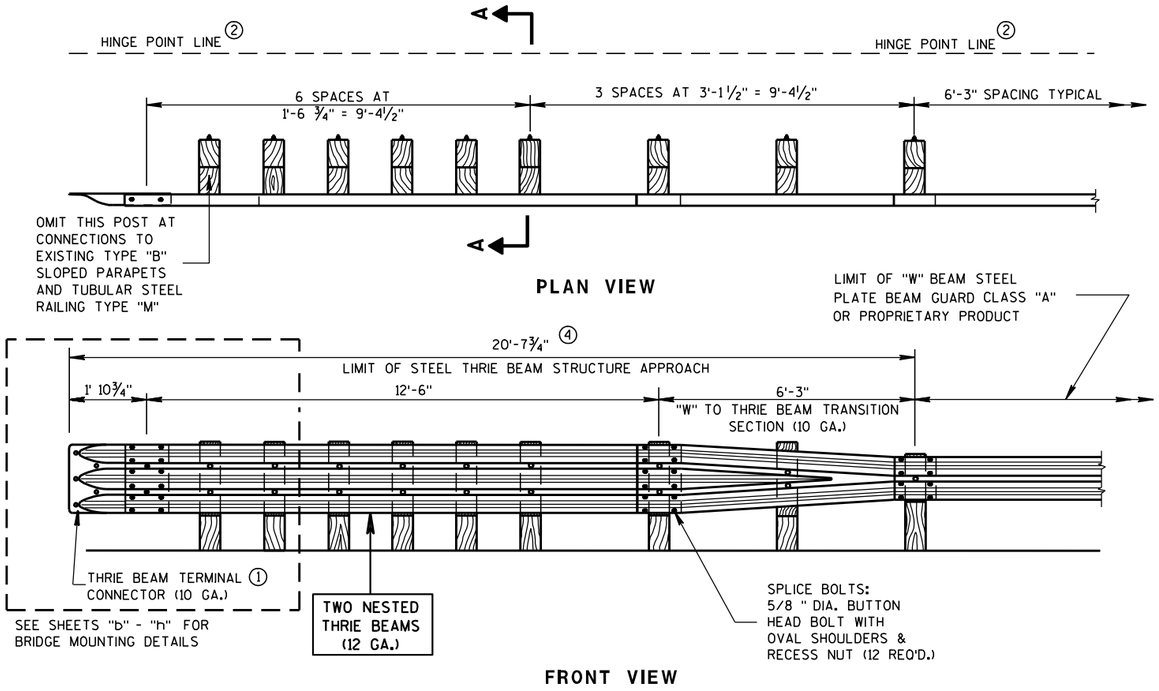
1. (1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE CURRENT SDD 14B20.
2. (2) LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.



PARALLEL INSTALLATION

BEAM GUARD AT MEDIAN APPROACH TO BRIDGES

STEEL PLATE BEAM GUARD CLASS "A" AT MEDIAN APPROACH TO BRIDGES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
8-21-07 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



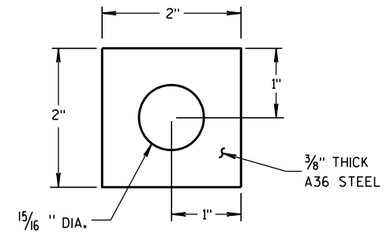


PLATE WASHER DETAIL

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.

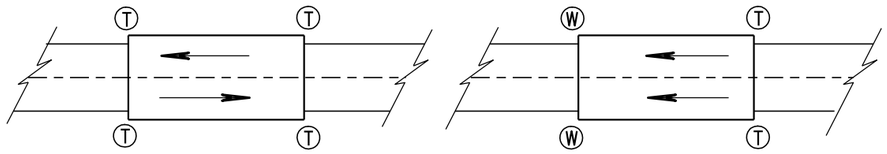
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2" , AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

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

② MINIMUM EMBEDMENT SHALL BE 4'-0". WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK SHOWN ON THE PLAN TYPICAL SECTIONS OR DETAILS, THE ENGINEER MAY ALLOW THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. OTHERWISE BUILD AS THE PLAN SHOWS OR AS THE ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST EMBEDMENT DEPTH TO 4'-6" OR MORE.

③ POST BOLTS ARE 5/8" DIAMETER ASTM A307 BUTTON HEAD BOLT. A POST BOLT REQUIRES A 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX AND A 5/8" 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.



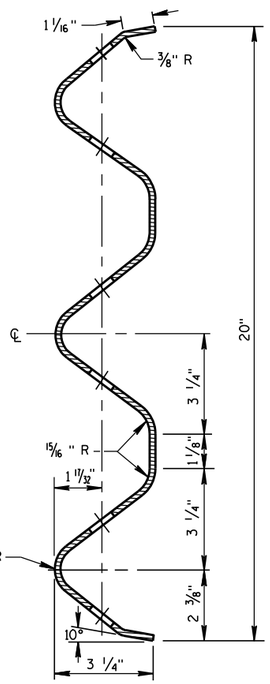
TWO WAY TRAFFIC

ONE WAY TRAFFIC

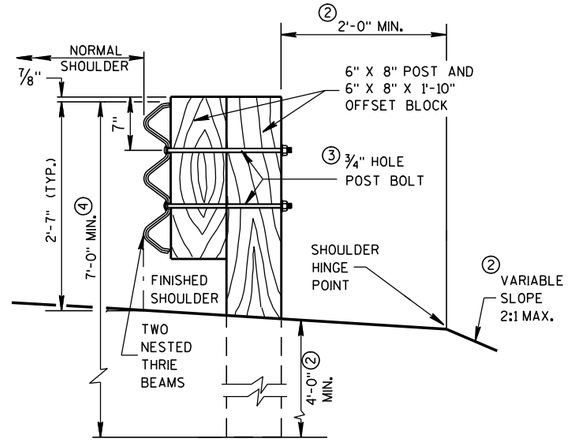
T THRIE BEAM CONNECTION

W W-BEAM CONNECTION WHEN REQUIRED

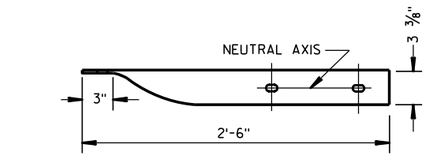
TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

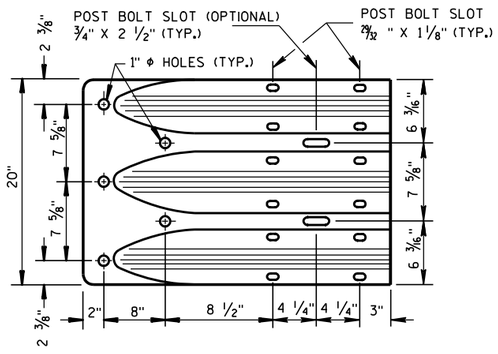


SECTION THRU THRIE BEAM RAIL ELEMENT

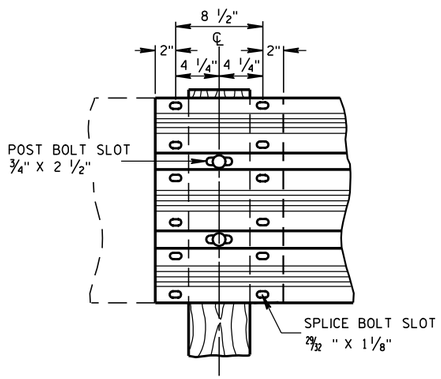


SECTION A-A





THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE

STEEL THRIE BEAM STRUCTURE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

230

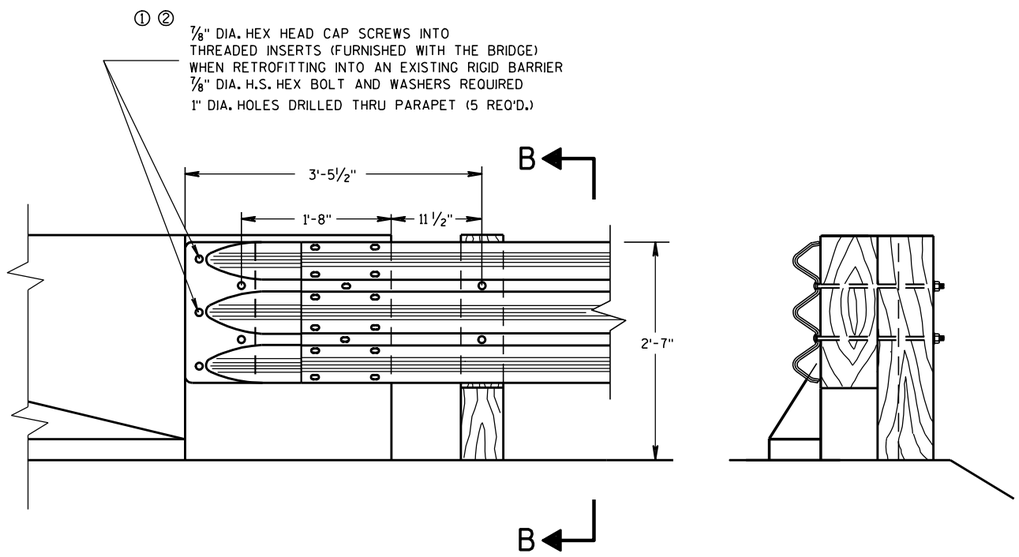
FHWA

6

S.D.D. 14 B 20-11a

6

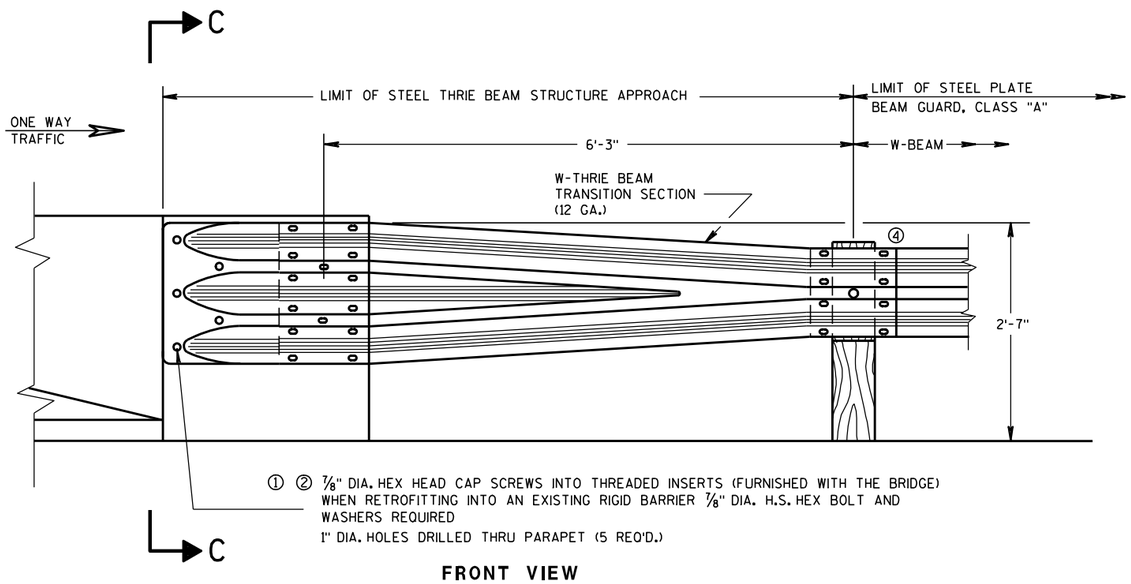
S.D.D. 14 B 20-11a



FRONT VIEW

SECTION B-B

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



① ② 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 REQ'D.)

FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

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

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION 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.

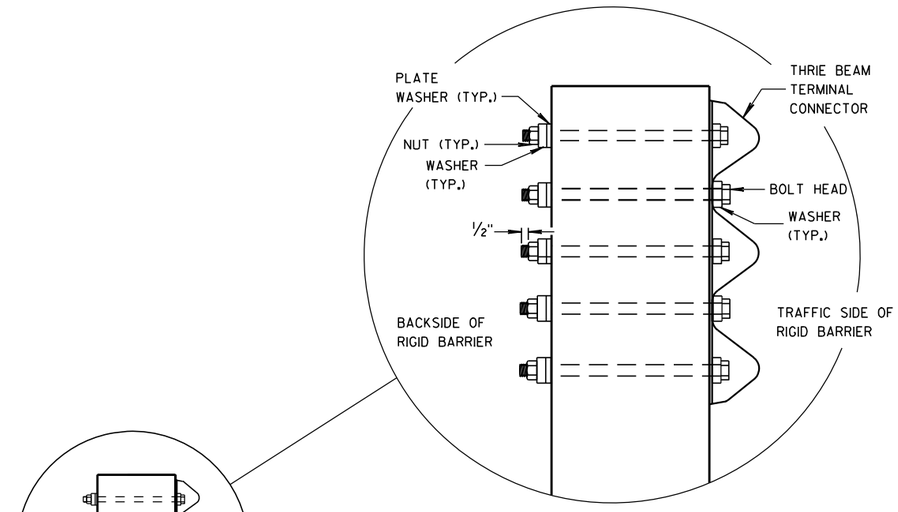
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

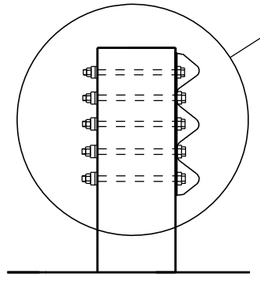
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X ⅝" 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

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS (231)
ENGINEER
FHWA

6

S.D.D. 14 B 20-11b

6

S.D.D. 14 B 20-11b

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION 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.

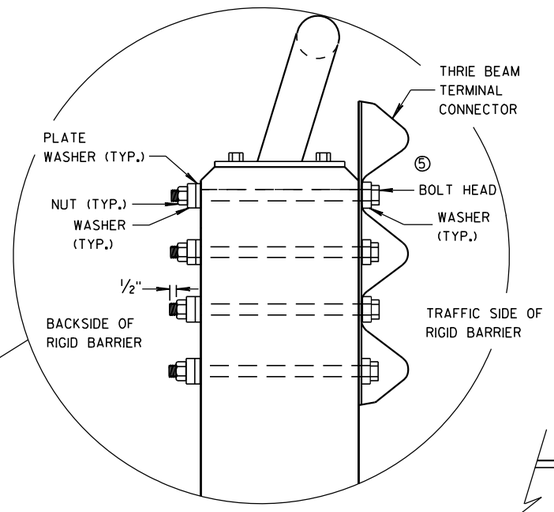
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X ⅝" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

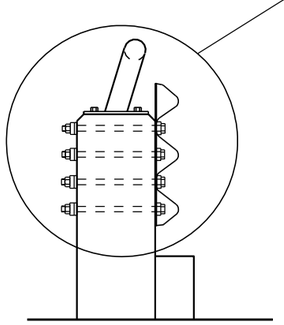
③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

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.

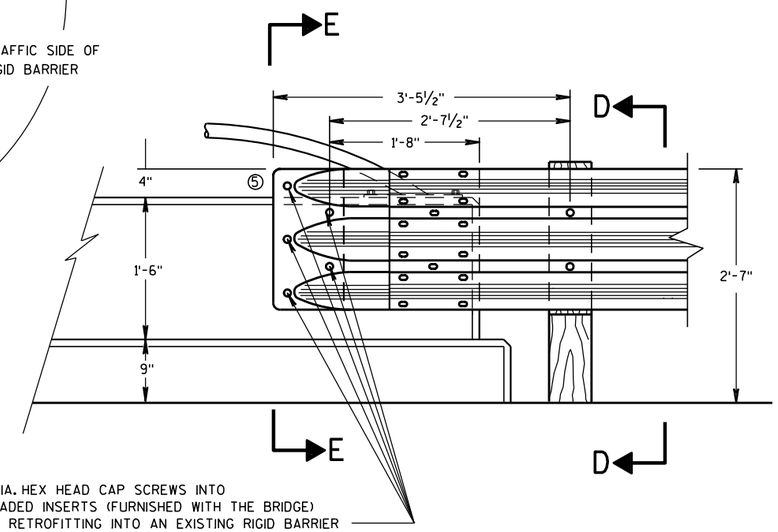
⑤ BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.

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.



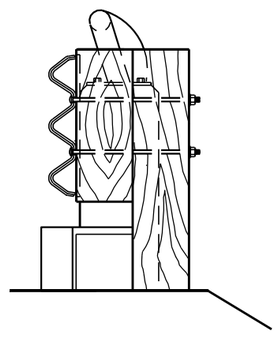


SECTION E-E



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 (4 REQ'D.)

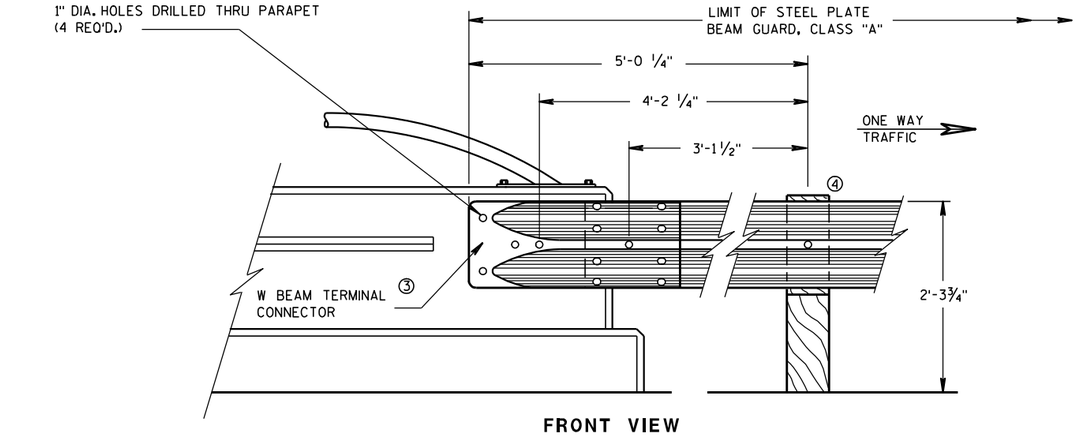
FRONT VIEW



SECTION D-D

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

①② ⅞" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE) WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER
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 (4 REQ'D.)



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET
(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO VERTICAL FACED PARAPETS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

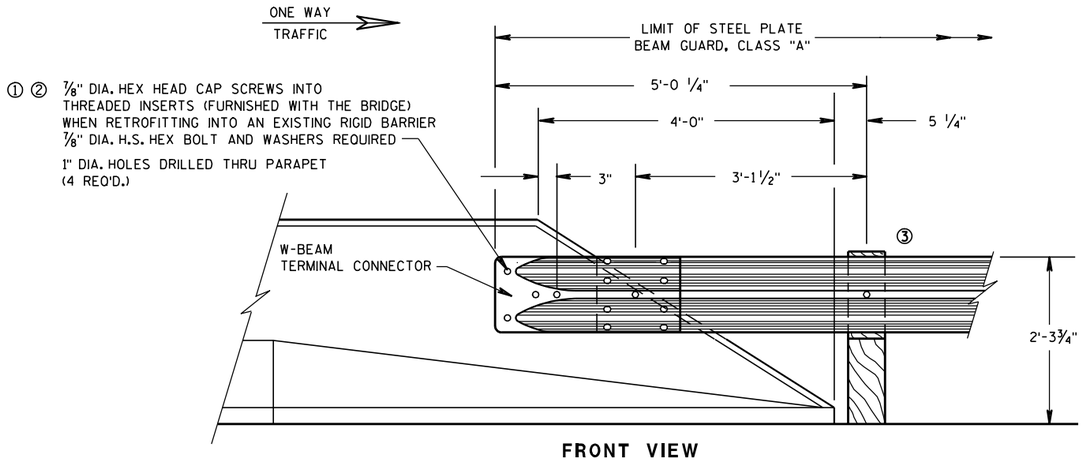
APPROVED
8/31/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 20-11c

6

S.D.D. 14 B 20-11c



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

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

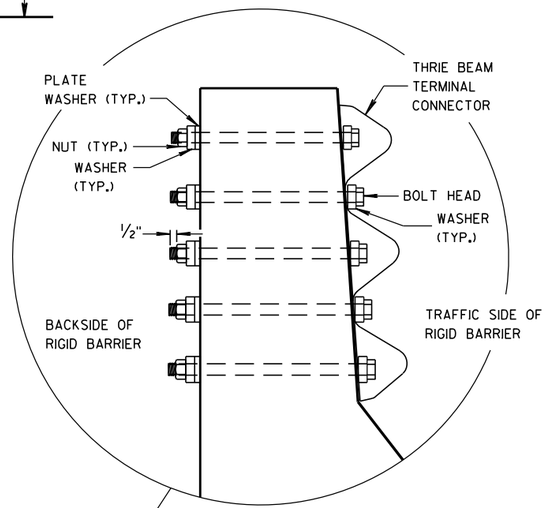
BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

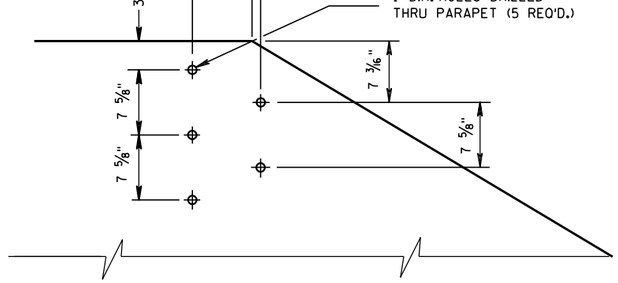
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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.

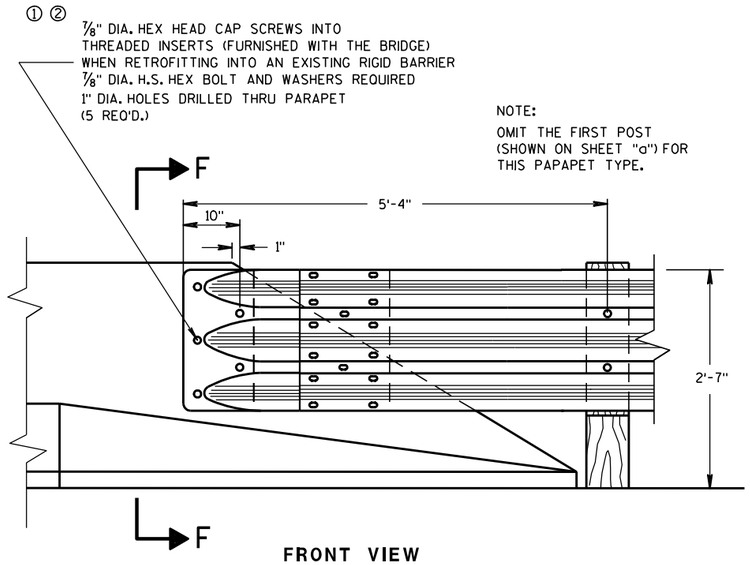
③ W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

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.

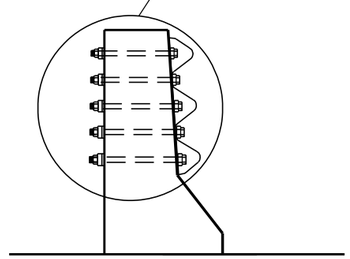




DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION F-F

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

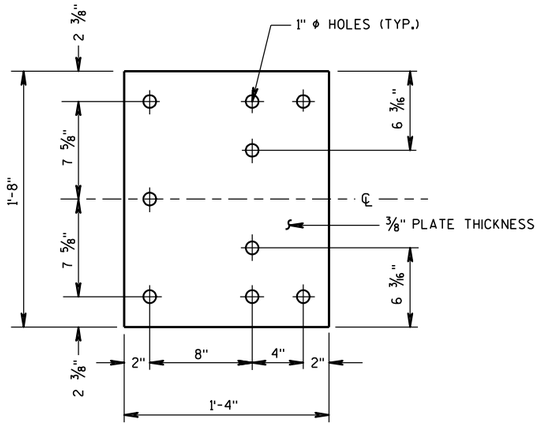
APPROVED
8/31/2012 — DATE
/S/ Jerry H. [illegible] — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

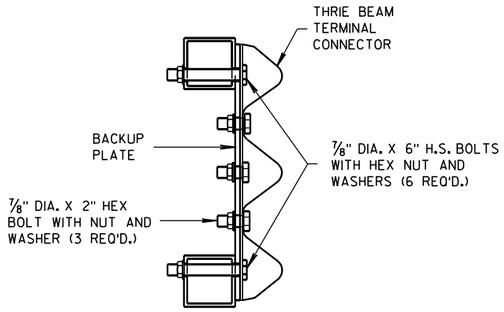
S.D.D. 14 B 20-11d

6

S.D.D. 14 B 20-11d



BACK-UP PLATE DETAIL



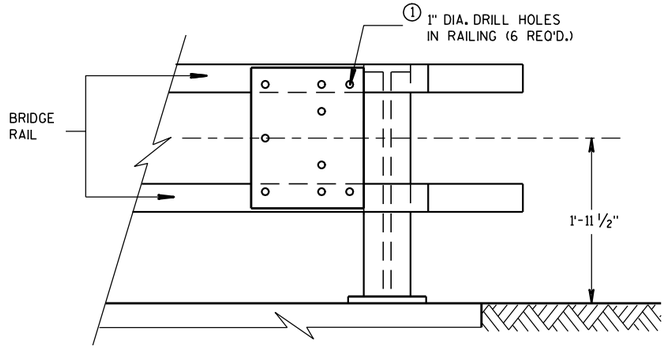
SECTION G-G

GENERAL NOTES

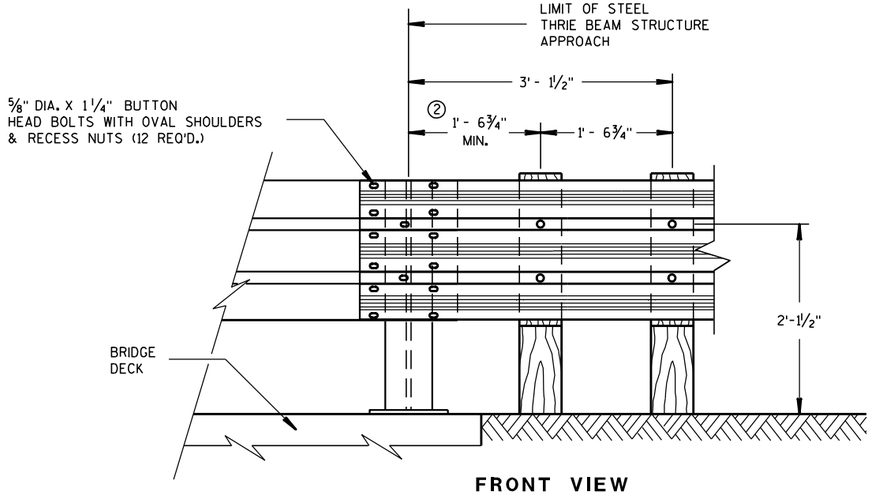
BOLTS, PLATES, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A 325 AND BE GALVANIZED IN ACCORDANCE WITH ASTM A 153.

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

② VARY THIS DIMENSION DEPENDING ON ABUTMENT TYPE, WINGWALL DETAILS, AND ANGLE OF SKEW. PLACE THE FIRST WOOD POST OFF THE BRIDGE SHALL AS CLOSE AS FEASIBLE TO THE STEEL END POST.

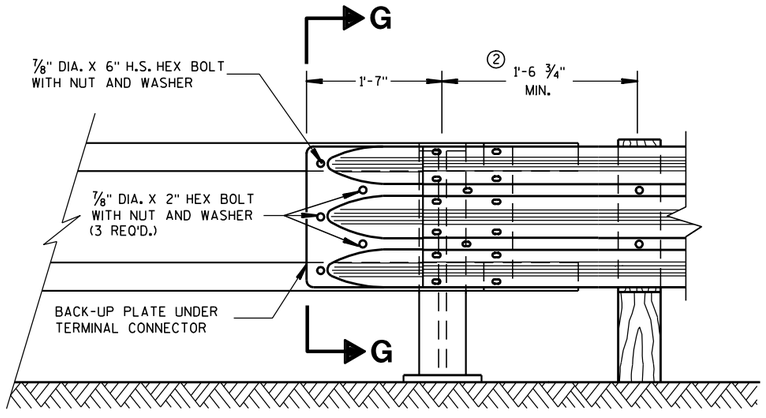


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

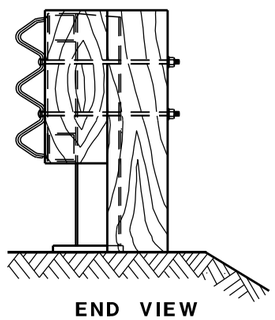


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



END VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPES "F" AND "W"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H ____
ROADWAY STANDARDS ENGINEER

234

ENT

FHWA

6

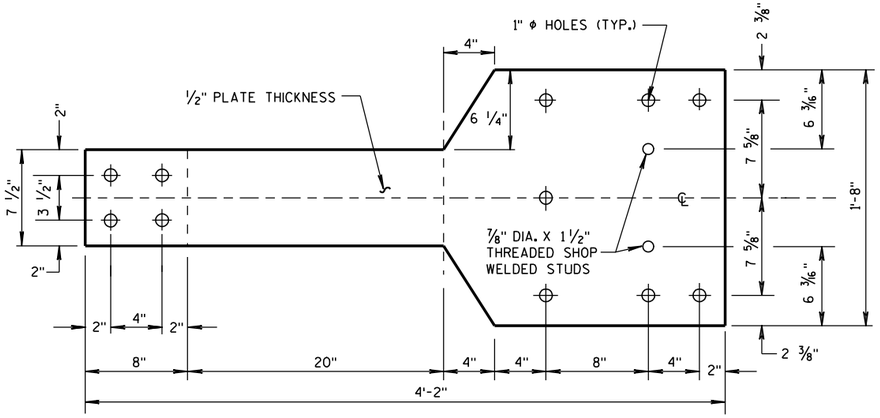
S.D.D. 14 B 20-11e

6

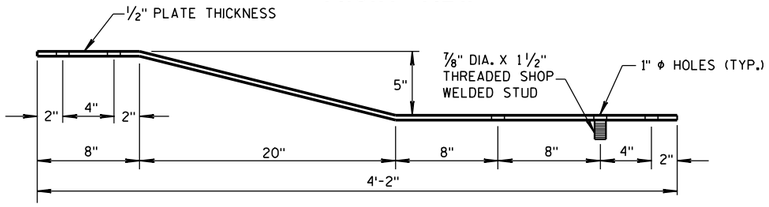
S.D.D. 14 B 20-11e

GENERAL NOTES

① VARY THIS DIMENSION DEPENDING ON ABUTMENT TYPE, WINGWALL DETAILS, AND ANGLE OF SKEW. PLACE THE FIRST WOOD POST OFF THE BRIDGE SHALL BE AS CLOSE AS FEASIBLE TO THE STEEL END POST.

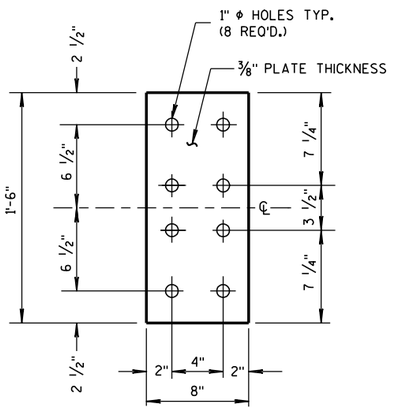


FRONT VIEW



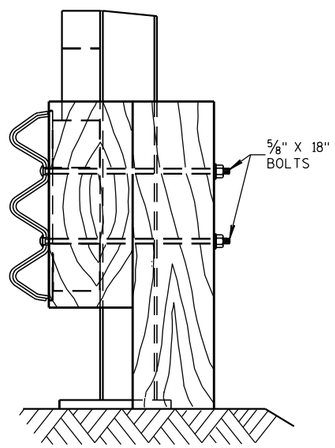
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

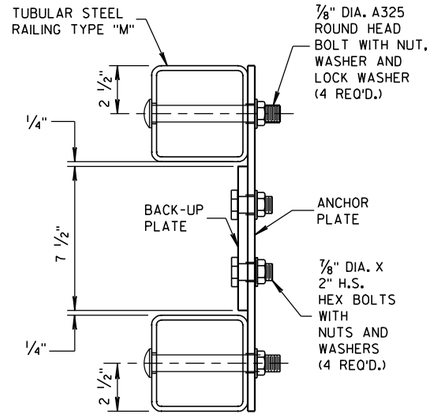


FRONT VIEW

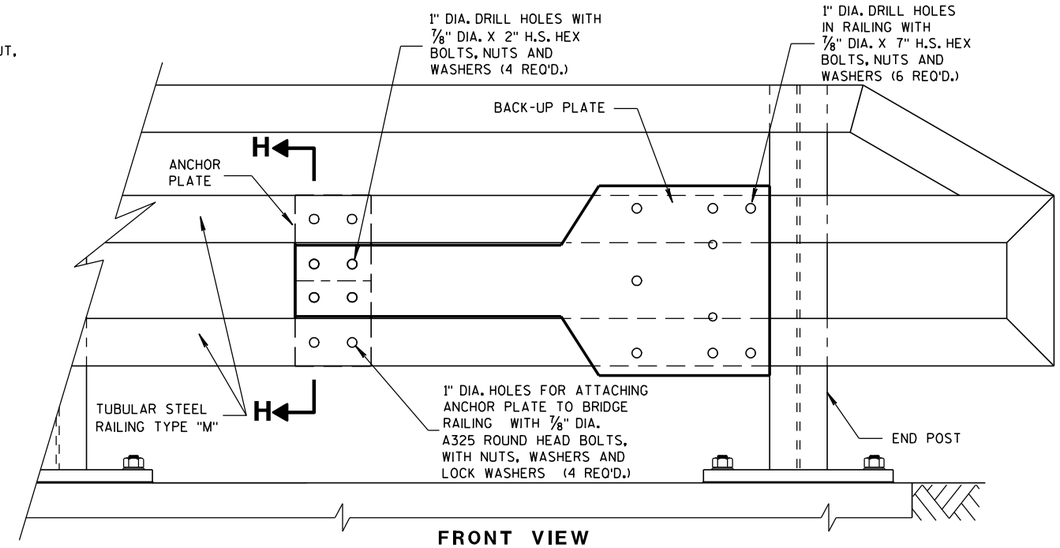
ANCHOR PLATE DETAIL, TYPE "M"



SECTION I-I

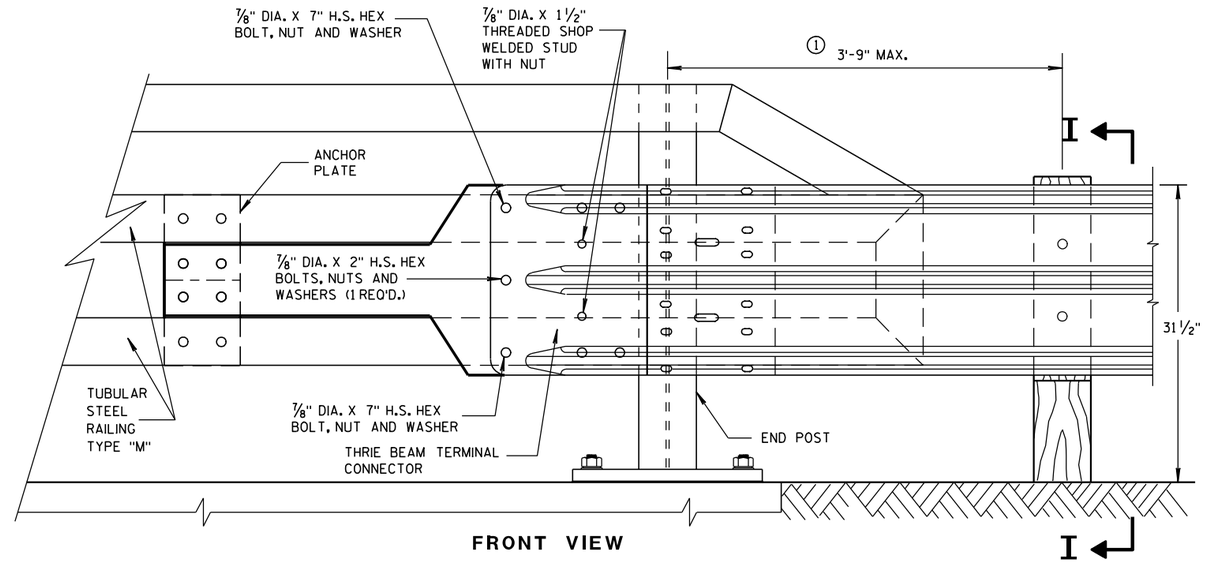


SECTION H-H

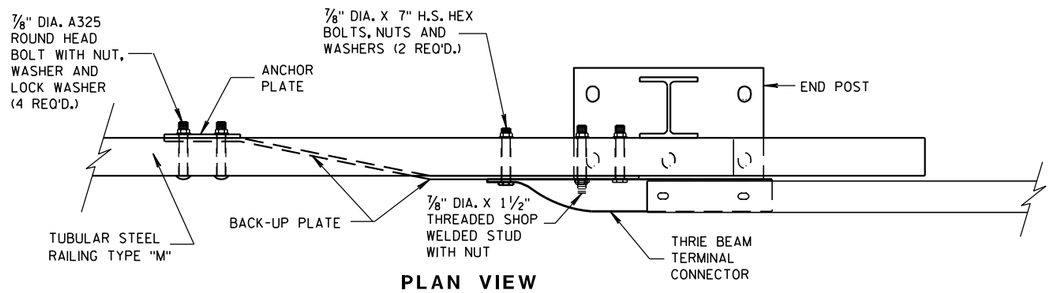


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPE "M"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

235

FHWA

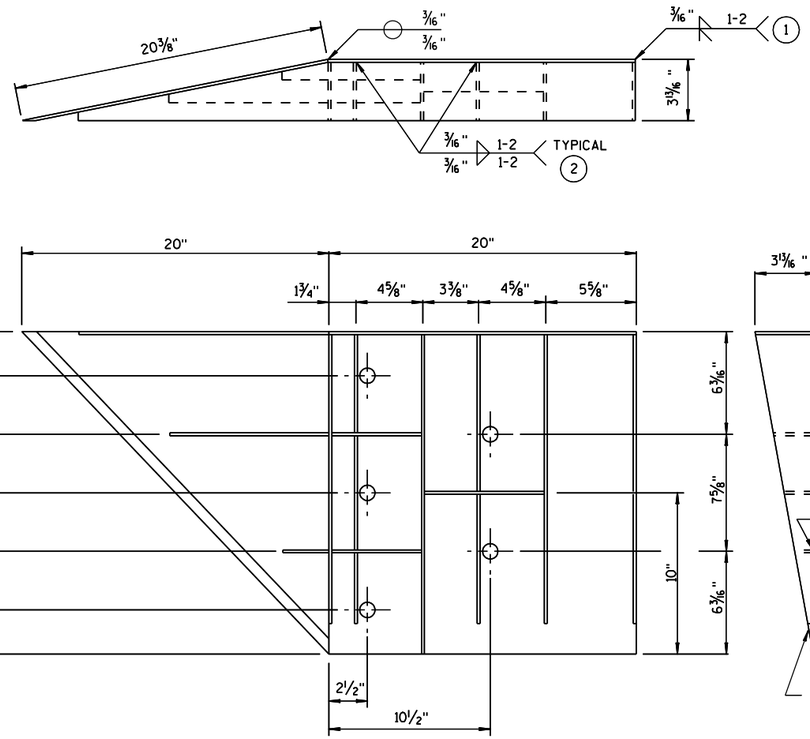
ENT

6

S.D.D. 14 B 20-11f

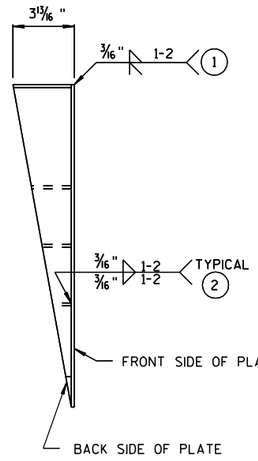
6

S.D.D. 14 B 20-11f



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)



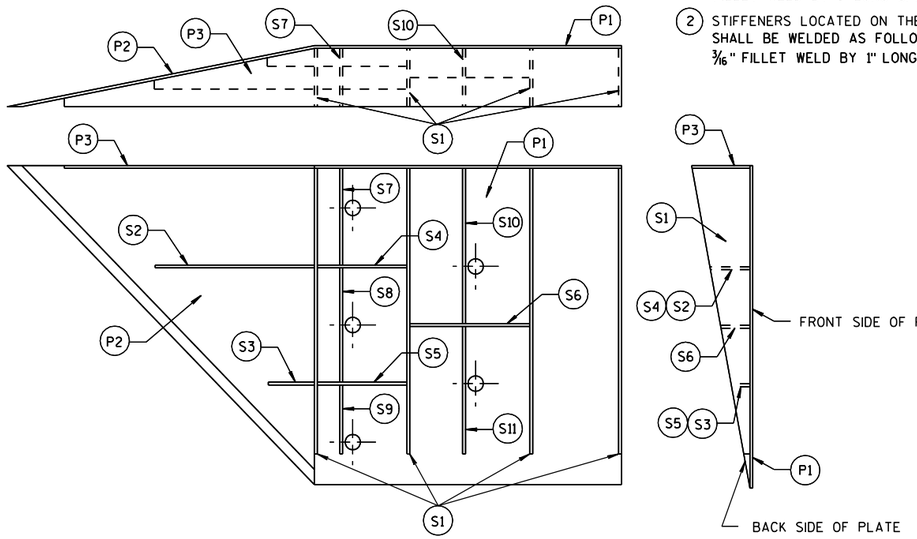


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE ⅜" THICK.

ALL STIFFENERS ARE ¼" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(1) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND ⅜" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(2) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
⅜" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	⅜"
P2	1		20" x 20" x 28⁹⁄₁₆"	⅜"
P3	1		39" x 3⅝" x 20" x 19⁵⁄₁₆"	⅜"
S1	4		18⁷⁄₁₆" x 3⅝" x 18¾"	¼"
S2	1		10¼" x 2⁷⁄₁₆" x 10⅜" x ½"	¼"
S3	1		3" x 1⁹⁄₁₆" x 3⅛" x ½"	¼"
S4	1		6⅛" x 2⁷⁄₁₆"	¼"
S5	1		6⅛" x 1⁹⁄₁₆"	¼"
S6	1		7¾" x 1¾"	¼"
S7	1		2⁹⁄₁₆" x 6" x 3⅝" x 5⅞"	¼"
S8	1		1⁵⁄₃₂" x 7½" x 2½" x 7⅜"	¼"
S9	1		6¹⁄₁₆" x 6³⁄₁₆" x 1³⁄₃₂"	¼"
S10	1		1⅞" x 9⅞" x 3⅝" x 9¹¹⁄₁₆"	¼"
S11	1		8½" x 8¾" x 1¹³⁄₁₆"	¼"

STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

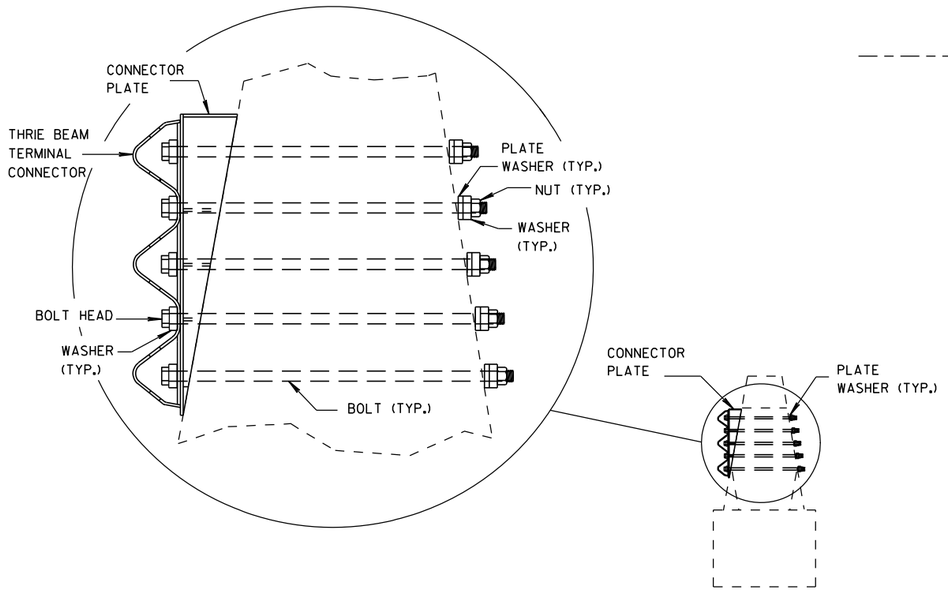
APPROVED
8/31/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

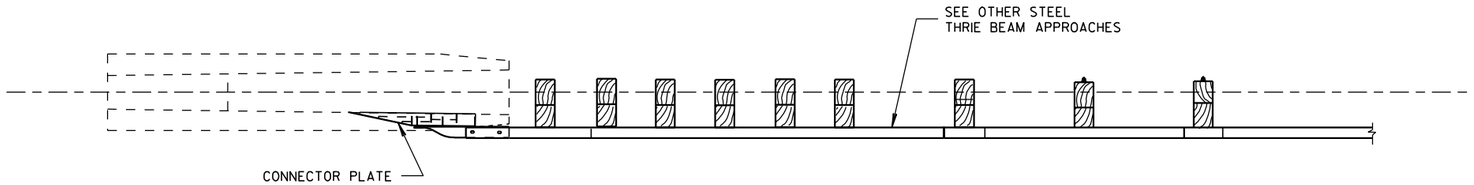
S.D.D. 14 B 20-11g

6

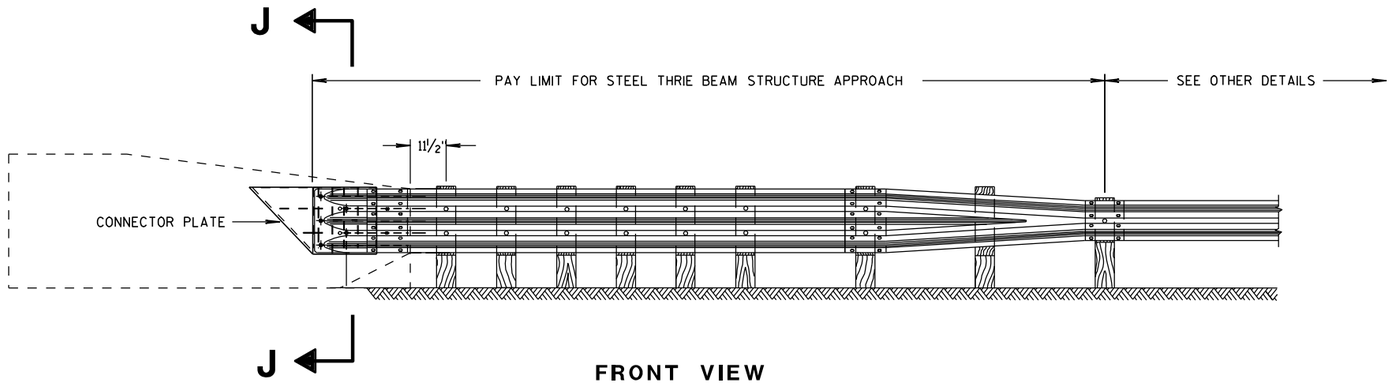
S.D.D. 14 B 20-11g



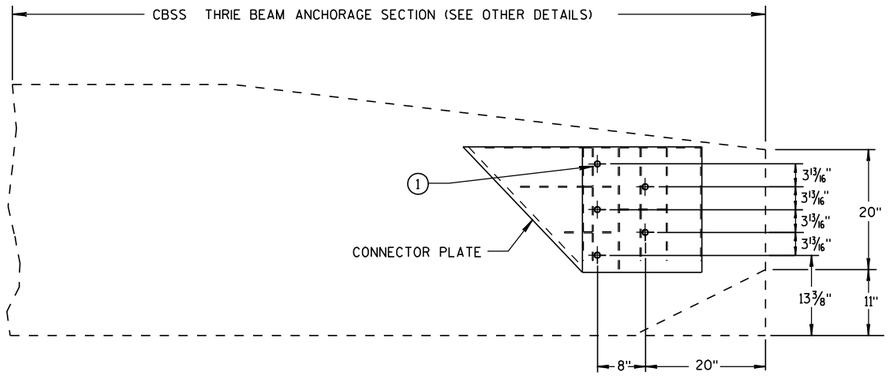
SECTION J-J



PLAN VIEW



FRONT VIEW



CONNECTOR PLATE LOCATION

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 614.

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

(1) 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.

STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH, SINGLE SLOPE ATTACHMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

237

FHWA

6

S.D.D. 14 B 20-11h

6

S.D.D. 14 B 20-11h

BILL OF MATERIALS

NOTE NO.	QTY.	DESCRIPTION
(1)	4	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
(2)	**	STEEL TUBE: OPTION 1 - QUANITY OF 4 TS 8" X 6" X 0.188", 4'-6" LONG OR OPTION 2 - QUANITY OF 2 TS 8" X 6" X 0.188", 6'-0" AND 2 TS 8" X 6" X 0.188", 4'-6" LONG
(3)	2	SOIL PLATE: 2'-0" X 1'-6" X ¼" **
(4)	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
(5)	6	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
(6)	1	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
(7)	1	BEARING PLATE
(8)	1	BCT CABLE ASSEMBLY
(9)	1	CABLE ANCHOR BOX
(10)	1	STRUT & YOKE
(11)	1	STEEL PLATE BEAM, END PANEL 12 GA. 13'-6½" LONG FOR SKT-350, ET-2000 AND ET-2000 PLUS
(12)	3	STEEL PLATE BEAM: 12 GA. 13'-6½"
(13)	1	ET-2000/ET-2000 PLUS GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
(14)	1	REFLECTIVE SHEETING TYPE H: 18" X 18"
(15)	1	E.A.T. MARKER POST

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS. IF NONE ARE AVAILABLE, INSTALL ⅝" ϕ X 1'-6" BUTTON HEAD BOLTS AT ALL POSTS EXCEPT FOR POST 1.

(A) THE SLOPE IN THE AREA BOUNDED BY THE EXTENDED VEHICLE RUNOUT PATH (EVRP), THE HINGE POINT LINE (HPL),AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) THE 13 SLOT FIRST RAIL PANEL MAY BE USED IN LIEU OF THE 3 SLOT RAIL PANEL ON SKT-350 ONLY.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 THROUGH 4 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 5 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

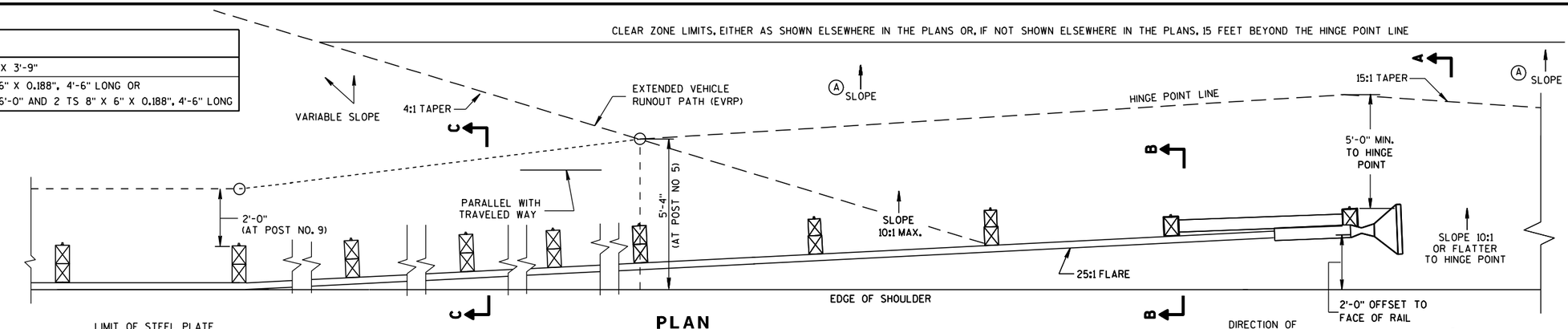
(F) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.

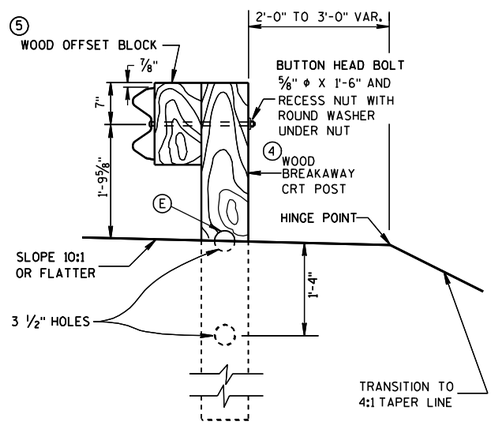
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

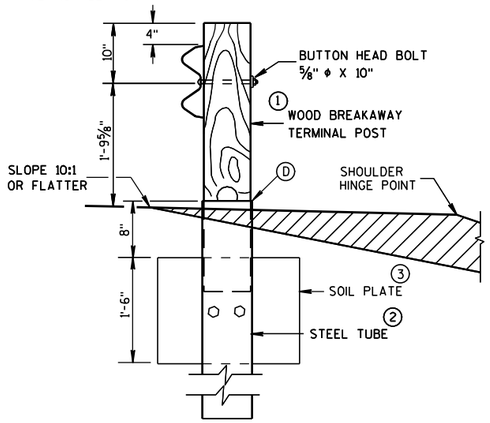
** SDD SHOWS 4 - 54 INCH STEEL TUBES WITH SOIL PLATES INSTALLED ON POST 1 AND POST 2. POST 3 AND 4 DO NOT NEED SOIL PLATES. AN ALTERNATIVE INSTALLATION WOULD CONSIST OF 2 - 72 INCH STEEL TUBES ON POST 1 AND POST 2 AND 54 INCH SOIL TUBES ON POSTS 3 AND 4. THE ALTERNATIVE INSTALLATION DOES NOT REQUIRE SOIL PLATES.





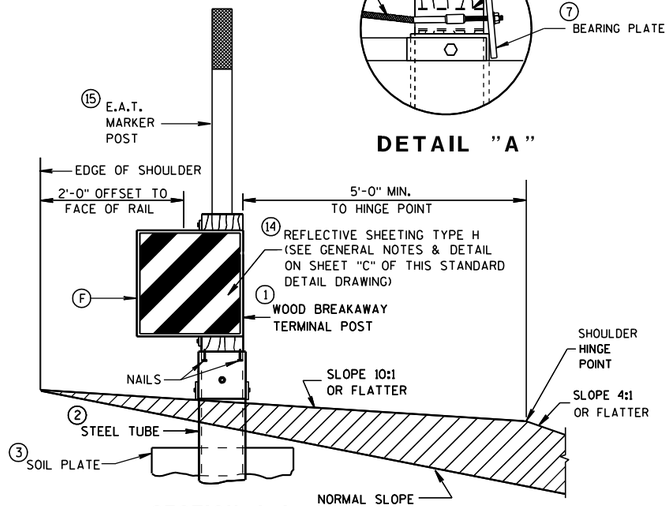
SECTION C-C

TYPICAL AT POST NOS. 6, 8



SECTION B-B

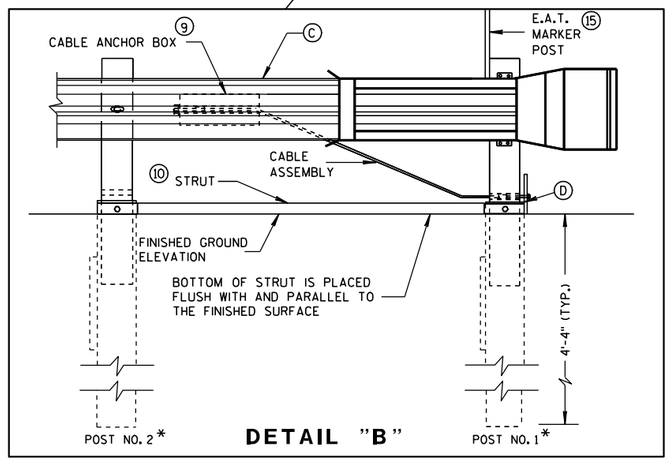
TYPICAL AT POST NO. 2*



DETAIL "A"

SECTION A-A

TYPICAL AT POST NO. 1*

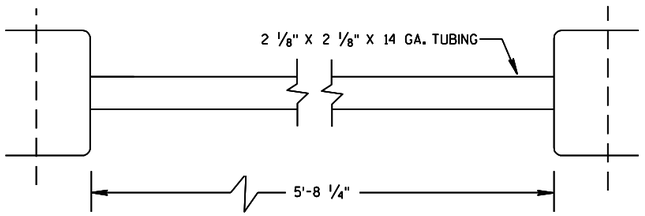


DETAIL "B"

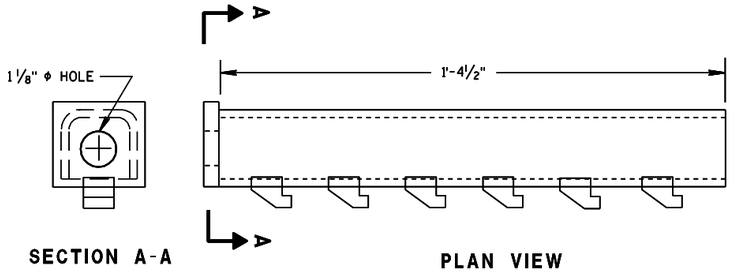
STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

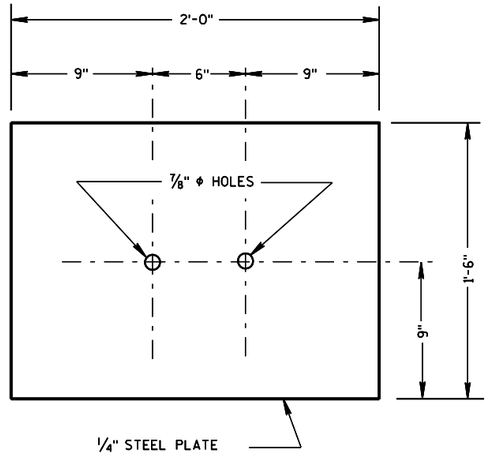
6
S.D.D. 14 B 24-7a



⑩ STRUT DETAIL (SKT-350)

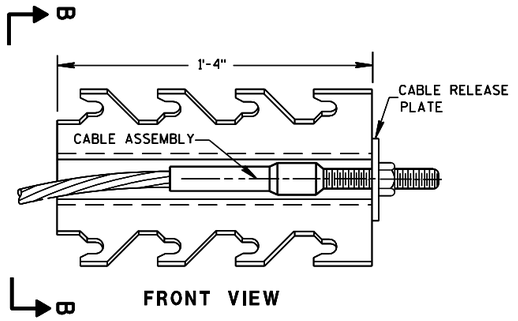


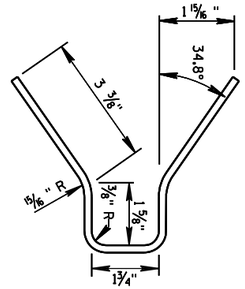
⑨ CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



③ SOIL PLATE

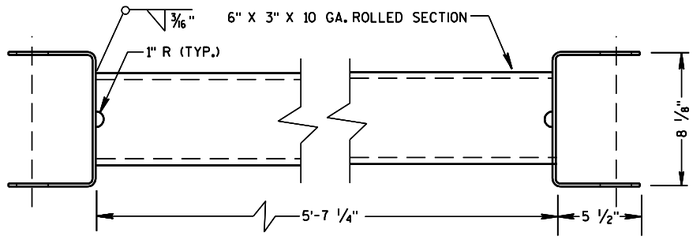
(SKT-350, ET-2000/ET-2000 PLUS)





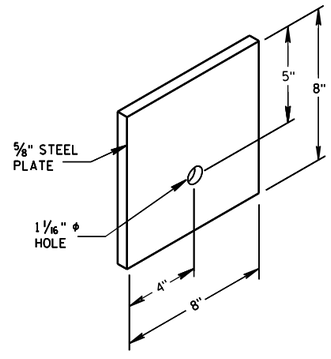
⑨ CABLE ANCHOR BOX (SKT-350)

(SKT-350)



⑩ STRUT DETAIL (ET-2000/ET-2000 PLUS)

(ET-2000/ET-2000 PLUS)

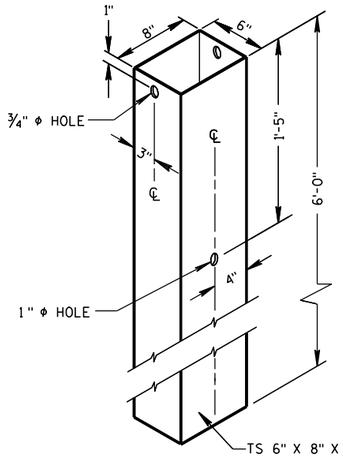


⑦ STEEL BEARING PLATE

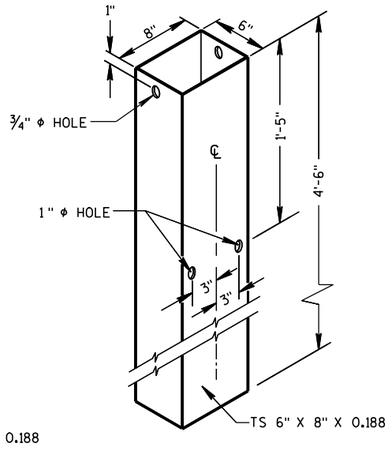
(SKT-350, ET-2000/ET-2000 PLUS)

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

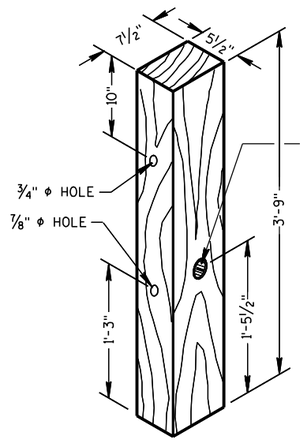
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



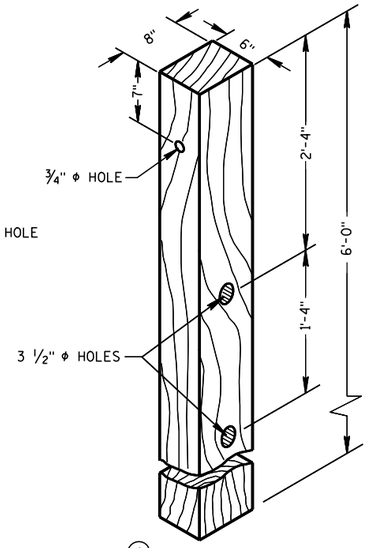
② 72" STEEL TUBE
(POSTS NO. 1-4



② 54" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST
(POSTS NO. 1-4



④ CRT POST
(POSTS NO'S 5-8

WOOD BREAKAWAY POSTS

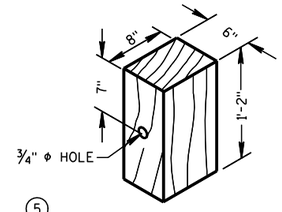
GENERAL NOTES

STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, WHICH SHALL INCLUDE HARDWARE, STEEL PLATE BEAM GUARD, POSTS, REFLECTIVE SHEETING AND INSTALLATION AS SHOWN.

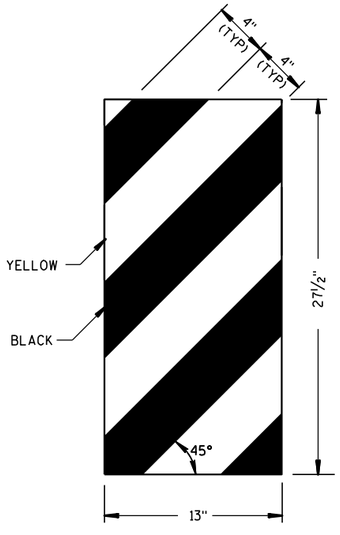
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

SEE APPROVED PRODUCTS LIST FOR ACCEPTABLE E. A. T. MARKER POST.

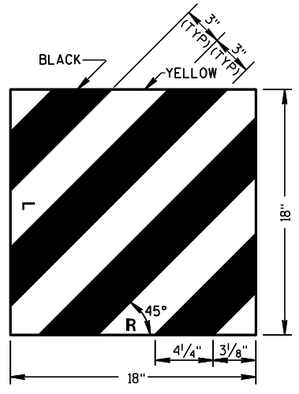
(G) ½" DIA. X 3" LAG BOLT WITH WASHER.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

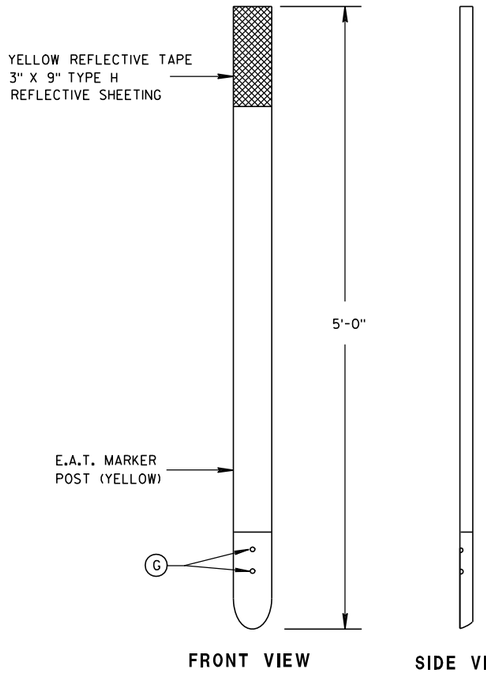


ET-2000 PLUS ONLY

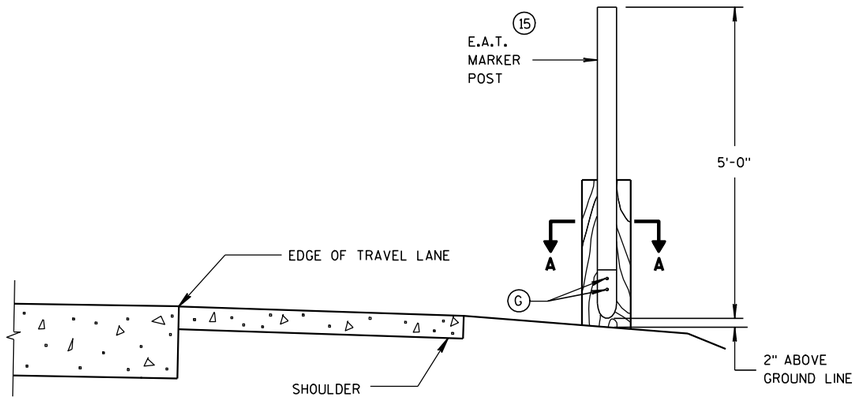


ET-2000 AND SKT-350

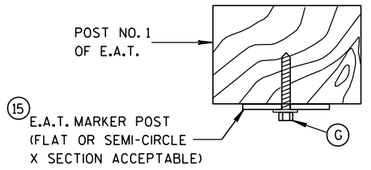
⑭ REFLECTIVE SHEETING DETAILS



⑮ E.A.T. MARKER POST



TYPICAL INSTALLATION OF E.A.T.
MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-12-10
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS 240 ENGINEER
FHWA

6

S.D.D. 14 B 24-7c

6

S.D.D. 14 B 24-7c

BILL OF MATERIALS

NOTE NO.	DESCRIPTION
①	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
②	STEEL TUBE TS 8" X 6" X 0.188", 6'-0"
④	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
⑦	BEARING PLATE
⑧	BCT CABLE ASSEMBLY
⑨	CABLE ANCHOR BOX
⑩	STRUT & YOKE
⑪	STEEL PLATE BEAM, END PANEL 12 GA.
⑫	STEEL PLATE BEAM: 12 GA. 13'-6½"
⑬	IMPACT HEAD
⑭	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS.

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 AND 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

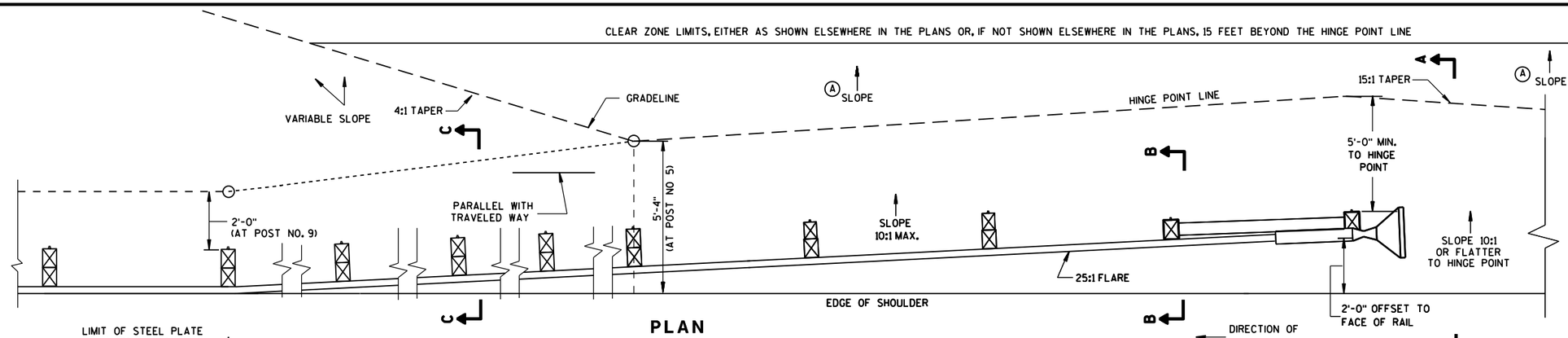
(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 3 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

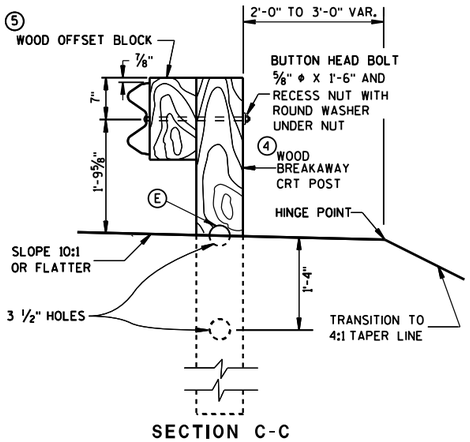
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

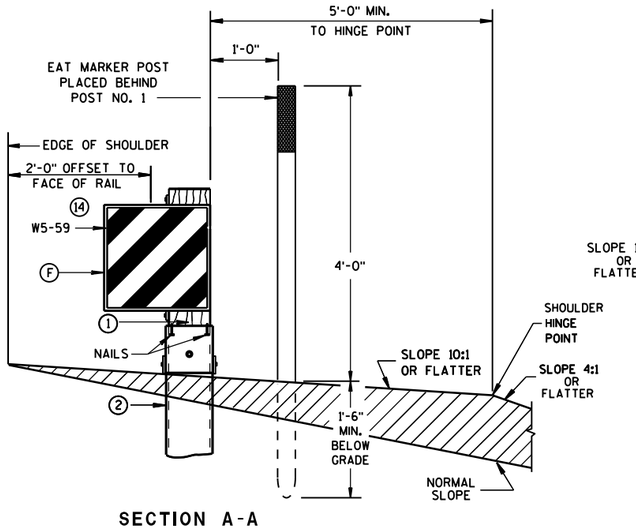
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

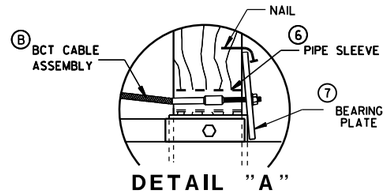




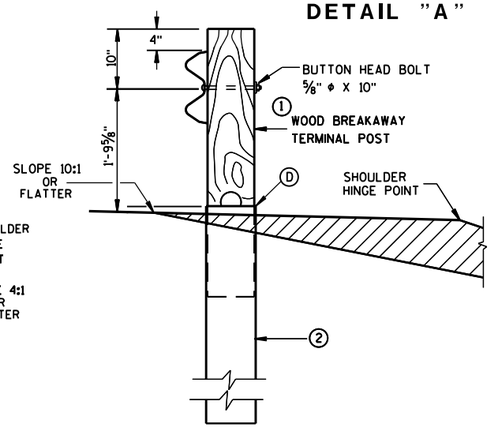
SECTION C-C
TYPICAL AT POST NOS. 6, 8



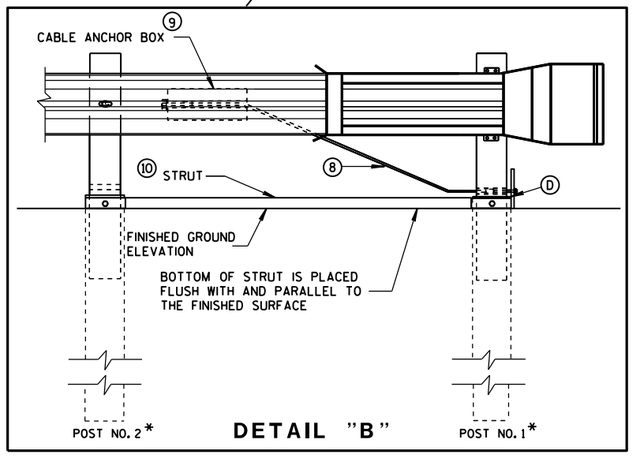
SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



SECTION B-B
TYPICAL AT POST NO. 2*



DETAIL "B"

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

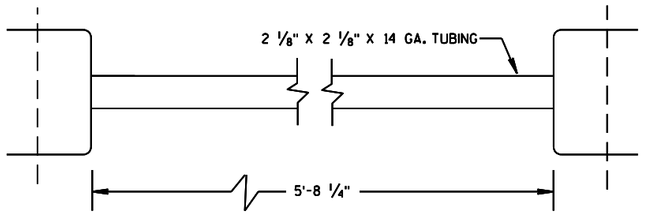
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

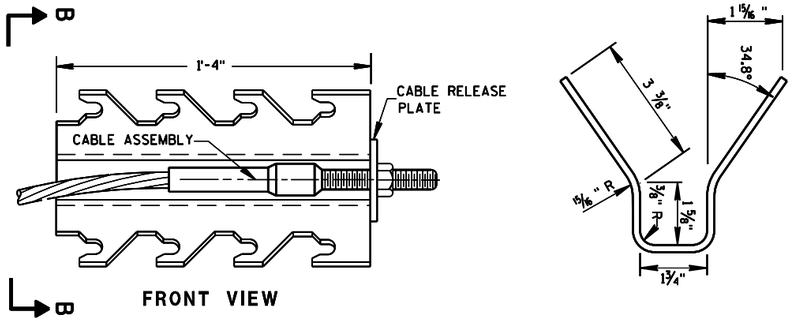
S.D.D. 14 B 24-9a

6

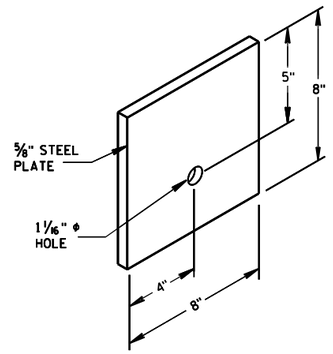
S.D.D. 14 B 24-9a



⑩ STRUT DETAIL



⑨ CABLE ANCHOR BOX



⑦ STEEL BEARING PLATE

6

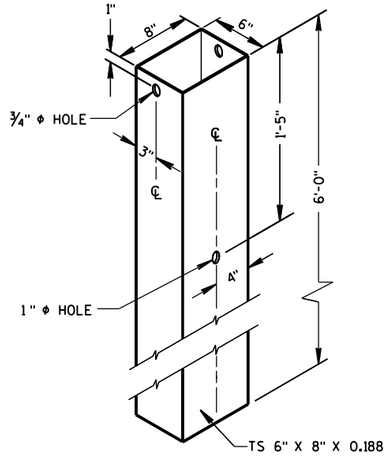
6

S.D.D. 14 B 24-9b

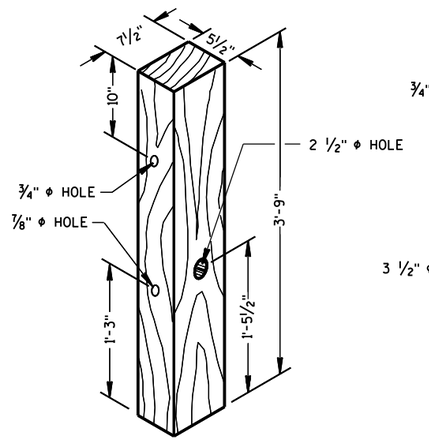
S.D.D. 14 B 24-9b

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

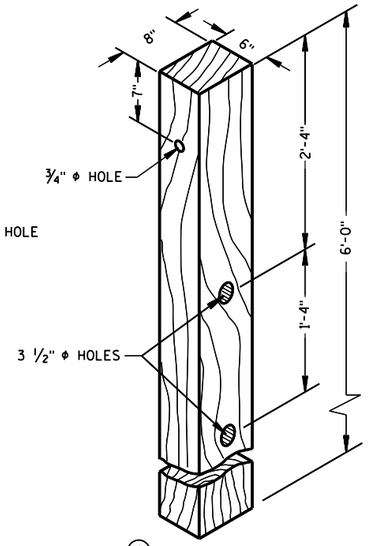
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



② 72" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST

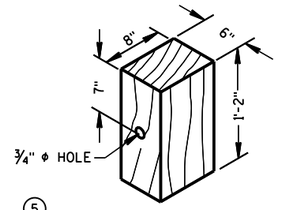


④ CRT POST
(POSTS NO'S 5-8)

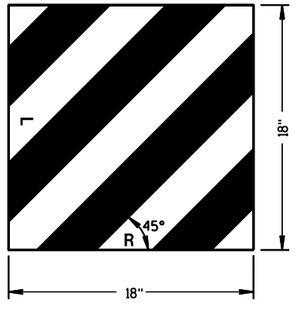
WOOD BREAKAWAY POSTS

GENERAL NOTES

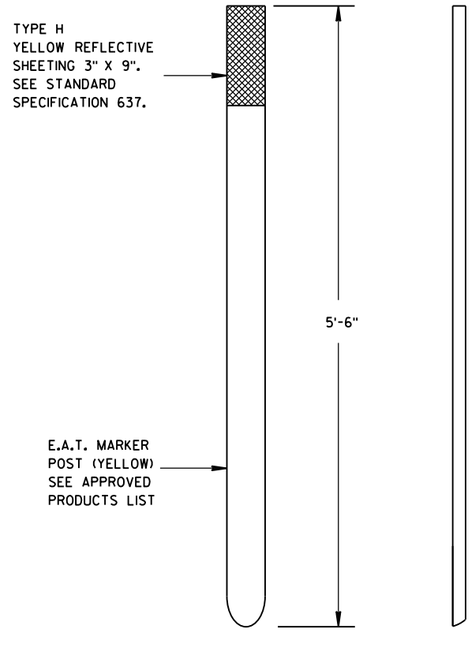
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



⑭ REFLECTIVE SHEETING DETAILS



E.A.T. MARKER POST

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV.

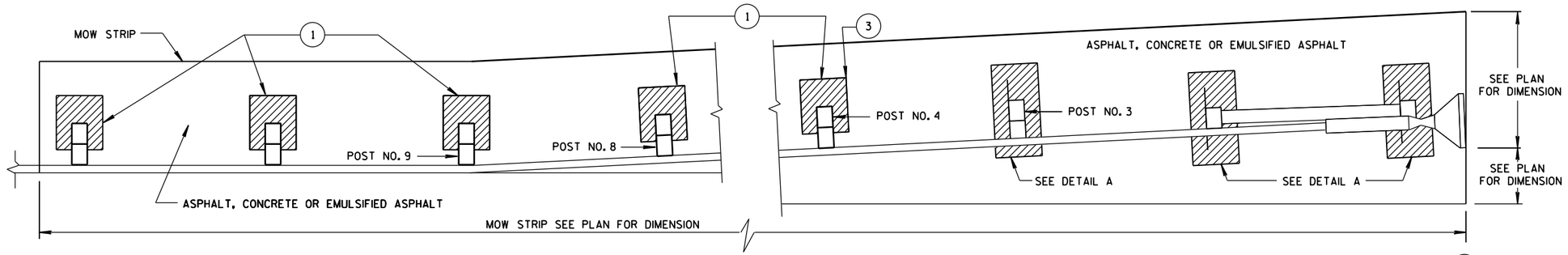
ENT

6

S.D.D. 14 B 24-9c

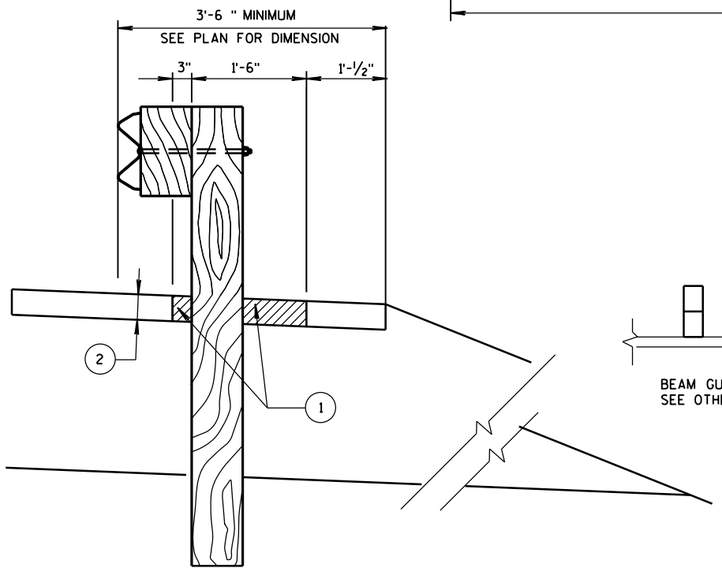
6

S.D.D. 14 B 24-9c

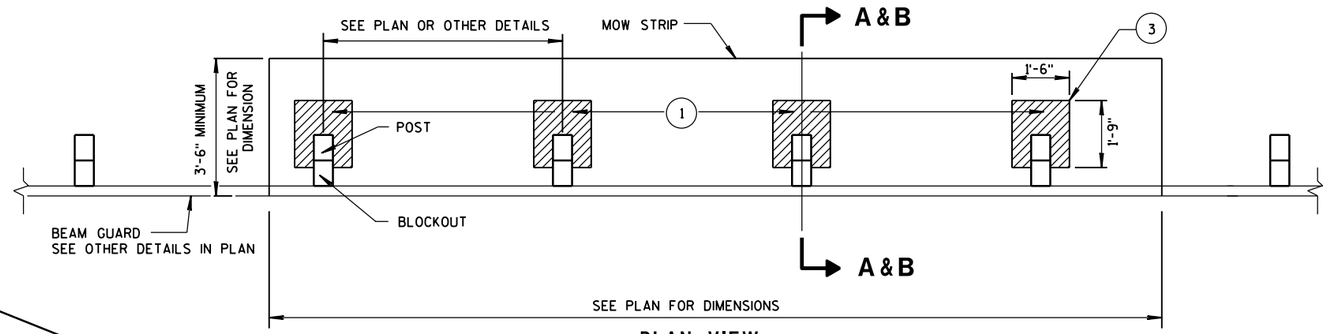


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

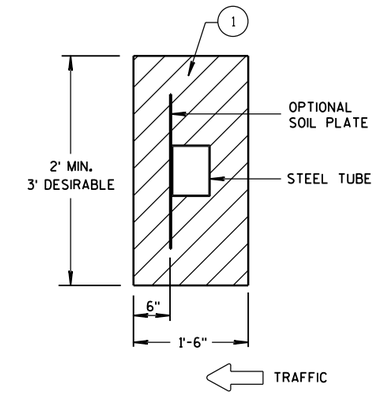


SECTION A-A

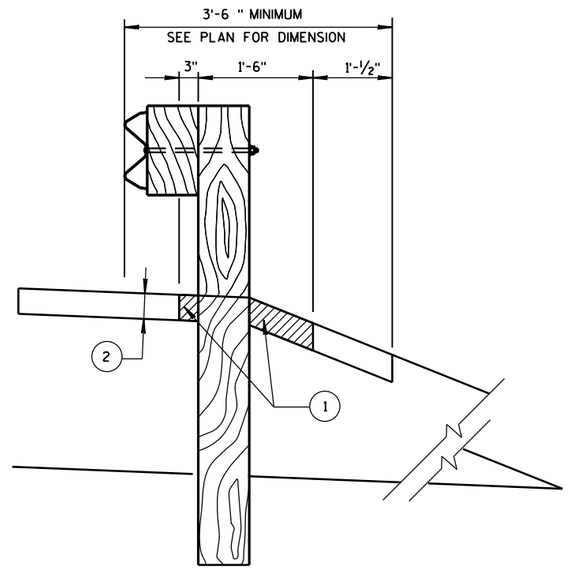


PLAN VIEW

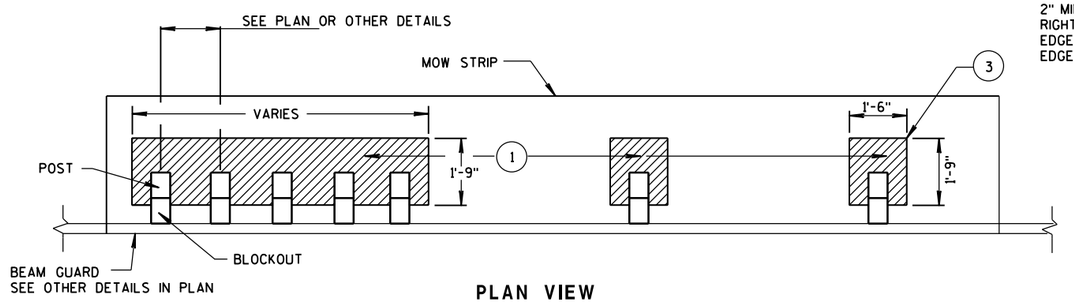
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

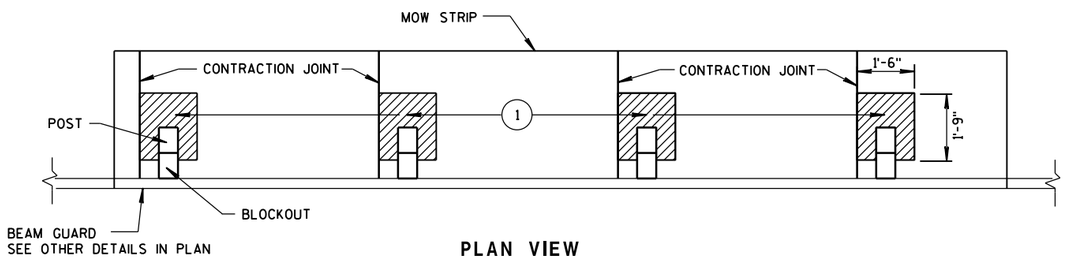


SECTION B-B



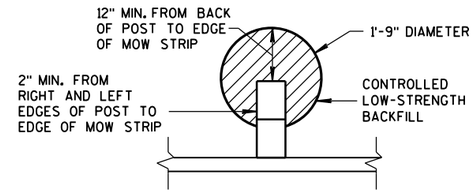
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 14 B 28-3

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

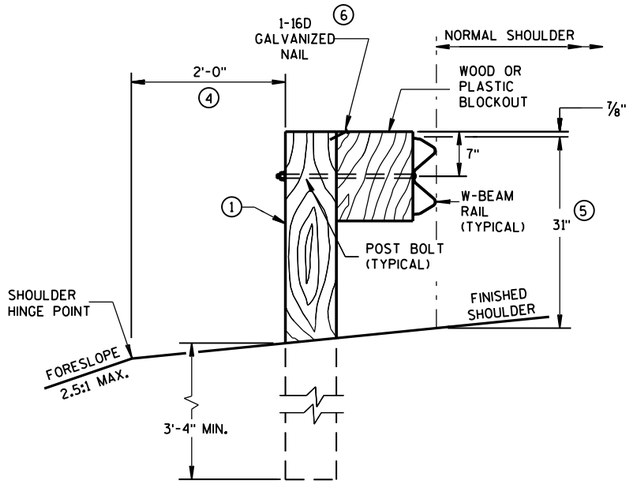
(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

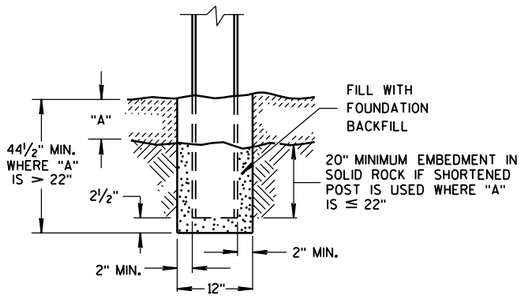
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



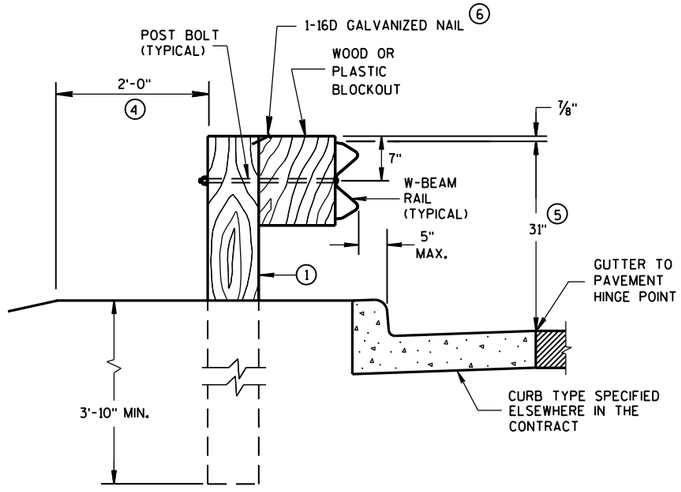
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



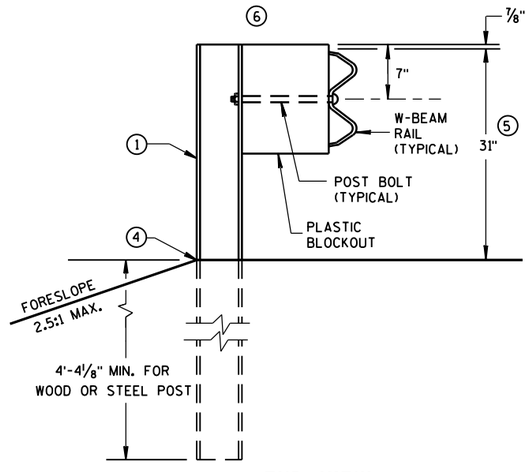
END VIEW

SETTING STEEL OR WOOD POST IN ROCK (3)



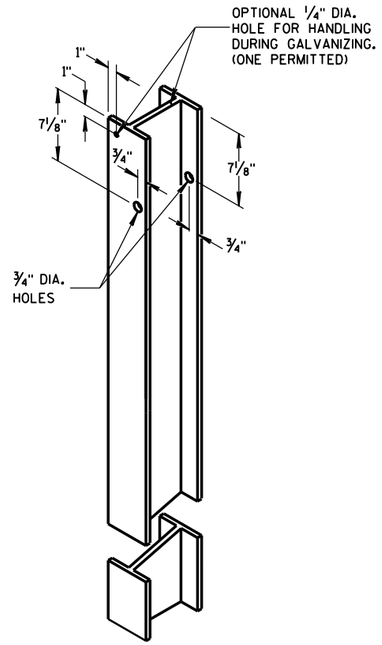
END VIEW

LOCATED ALONG A CURBED ROADWAY

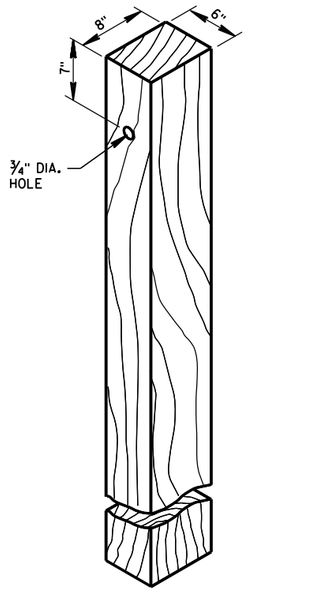


END VIEW

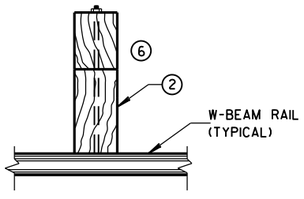
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



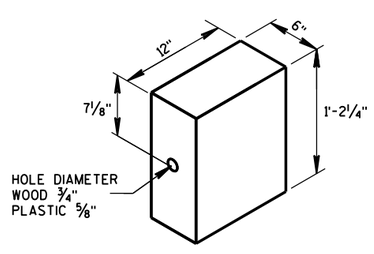
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) (1)



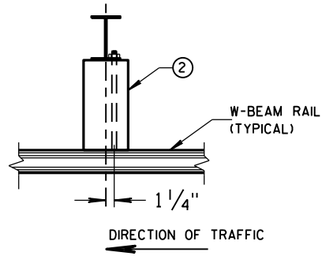
WOOD POST
(6" X 8") NOMINAL (1)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT (2)



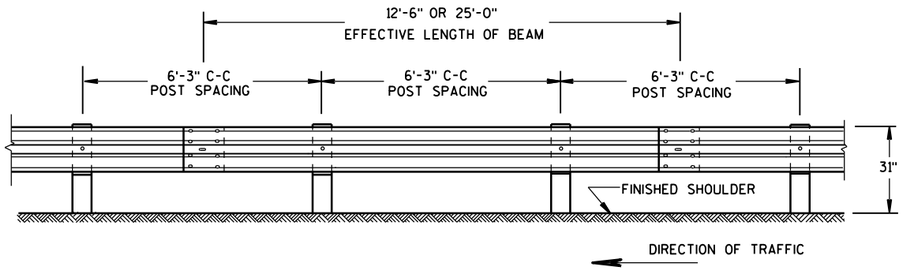
PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

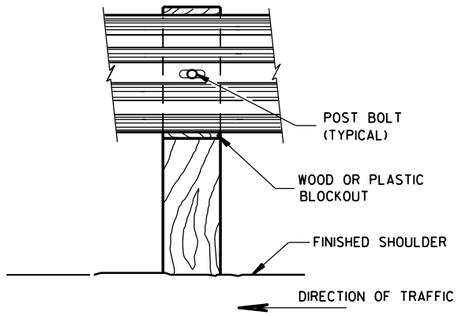
6

S.D.D. 14 B 42-5a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

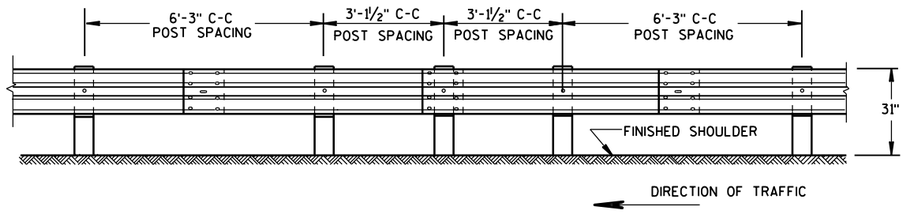
GENERAL NOTES

(8) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

(11) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

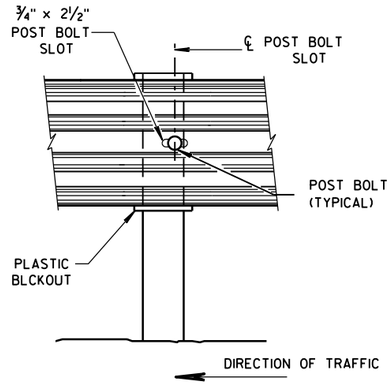
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

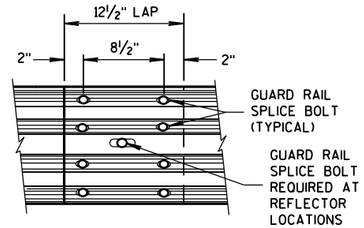


FRONT VIEW

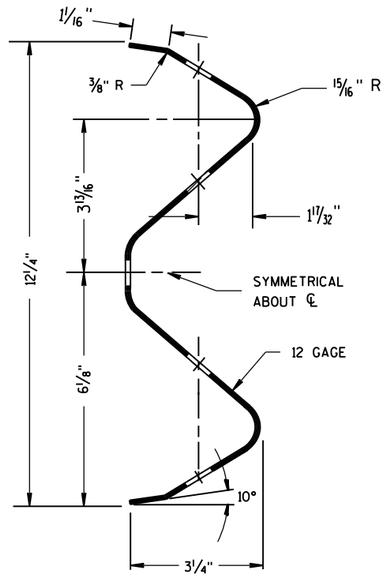
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



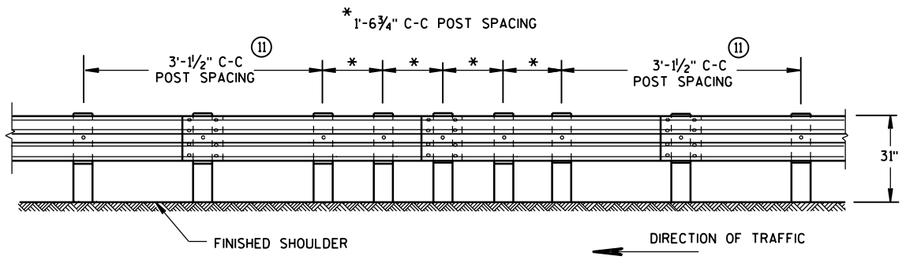
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

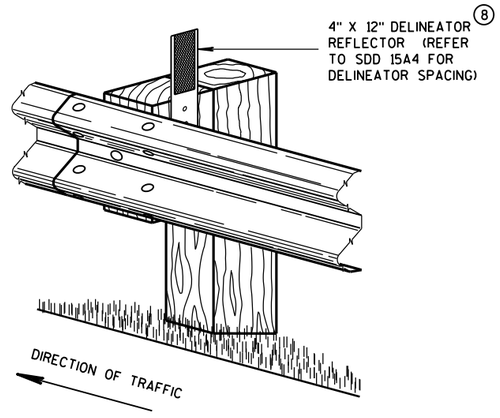


SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)



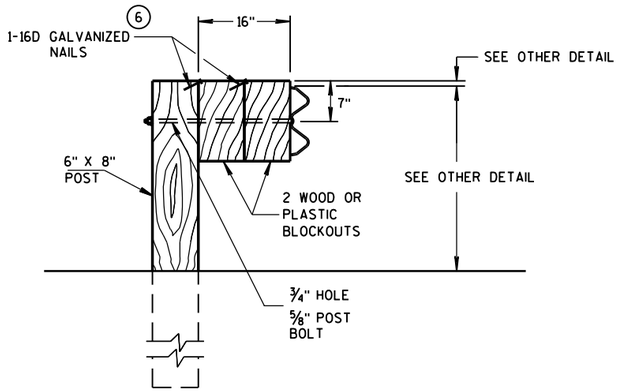
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

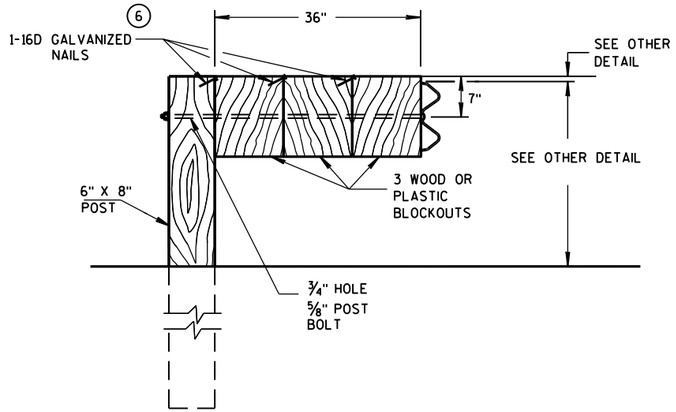
6

S.D.D. 14 B 42-5b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

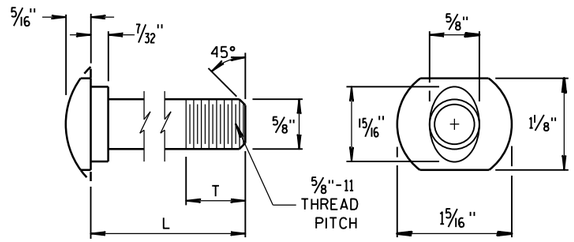


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

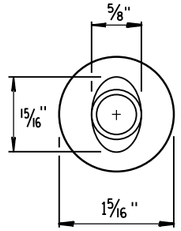
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

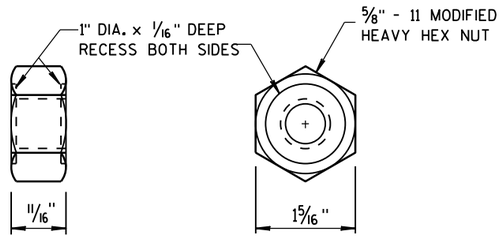


POST BOLT TABLE

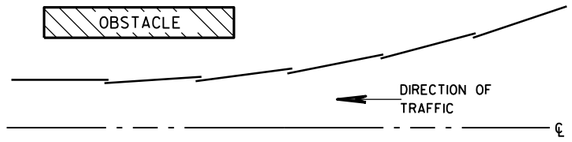
L	T (MIN.)
1¼"	1⅛"
2"	1¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

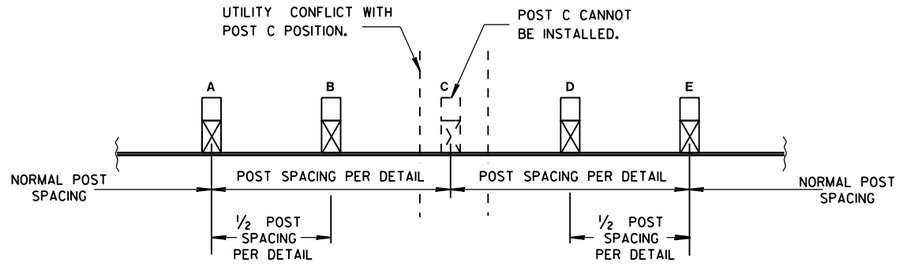


POST BOLT, SPLICE BOLT AND RECESS NUT

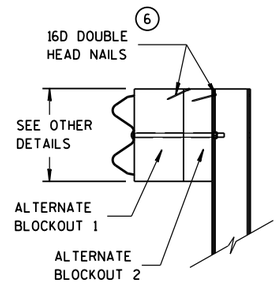


PLAN VIEW

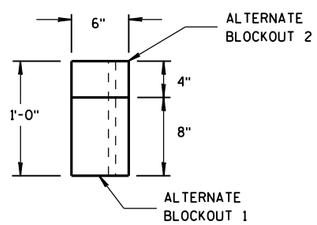
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

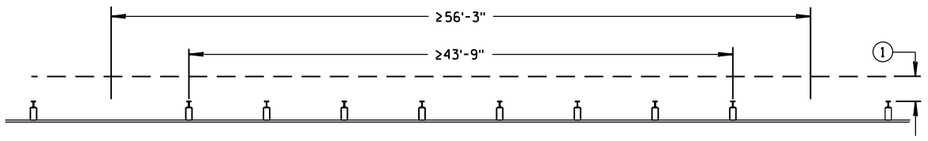
ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

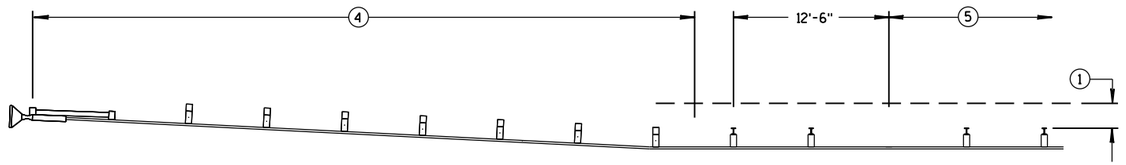
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

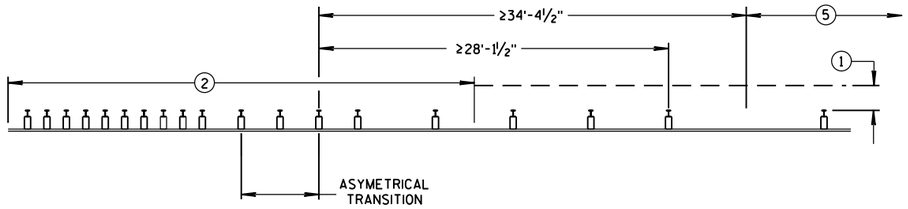
S.D.D. 14 B 42-5c



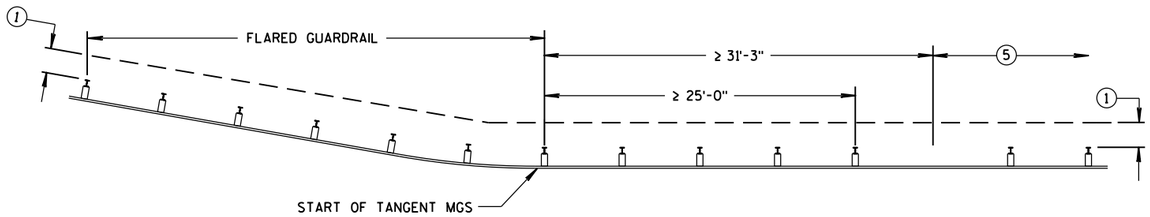
MISSING POST IN NORMAL BEAM GUARD RUN



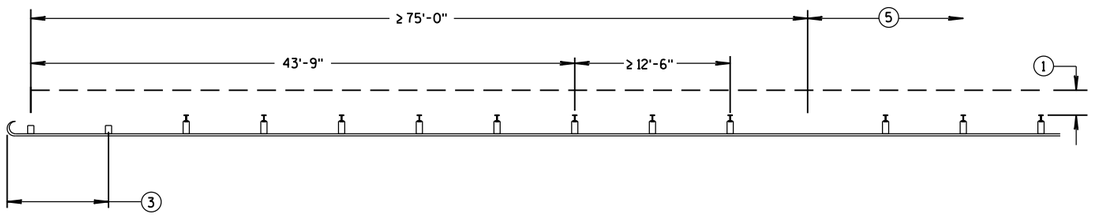
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



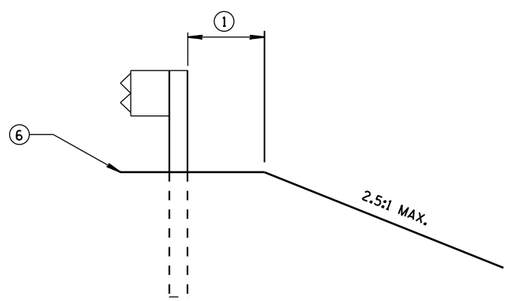
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

6

S.D.D. 14 B 42-5d

6

S.D.D. 14 B 42-5d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

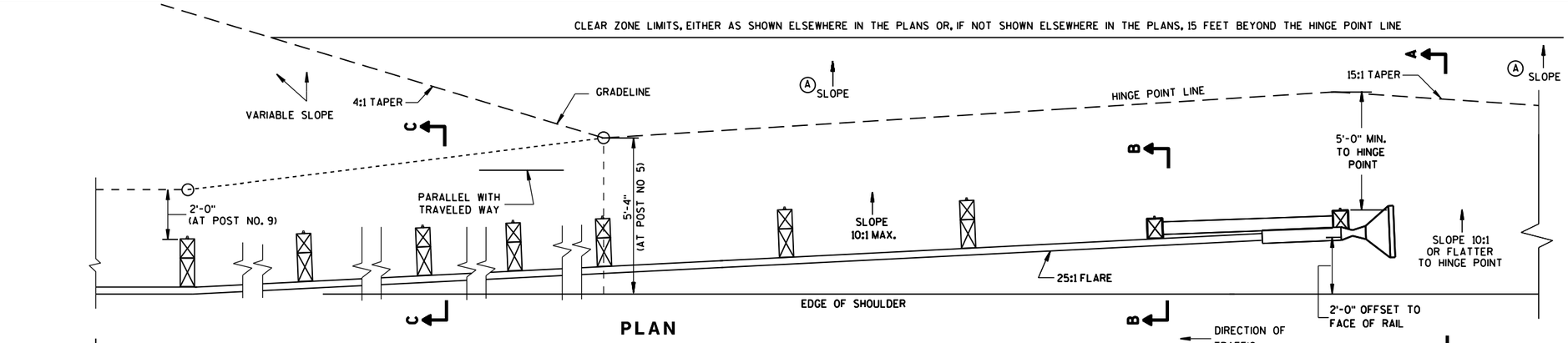
SEE SDD 14B42 FOR MORE INFORMATION.

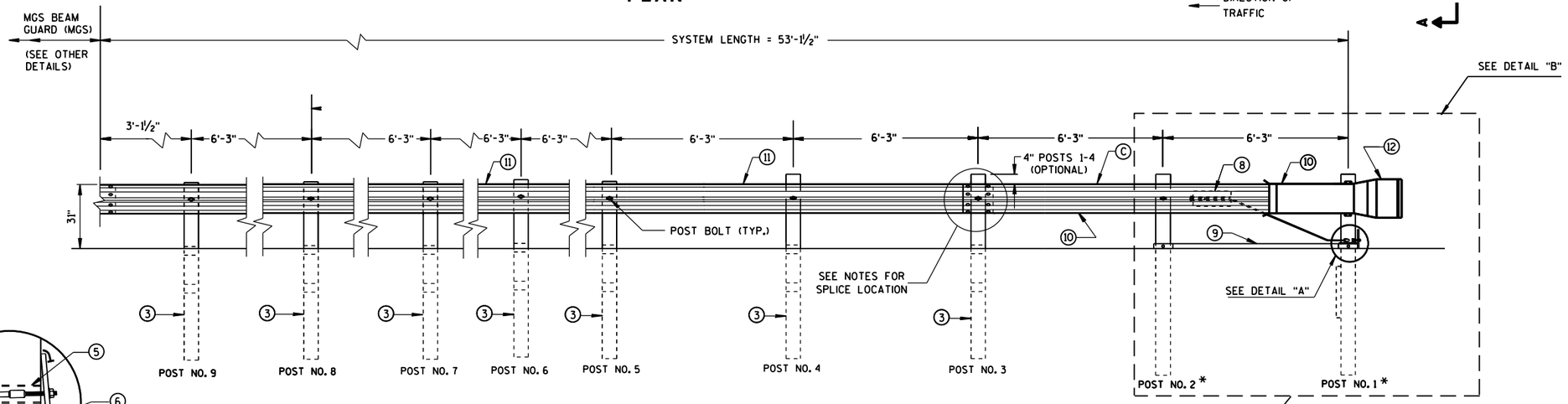
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

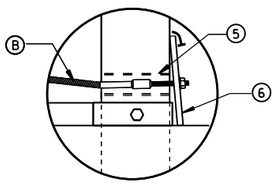
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

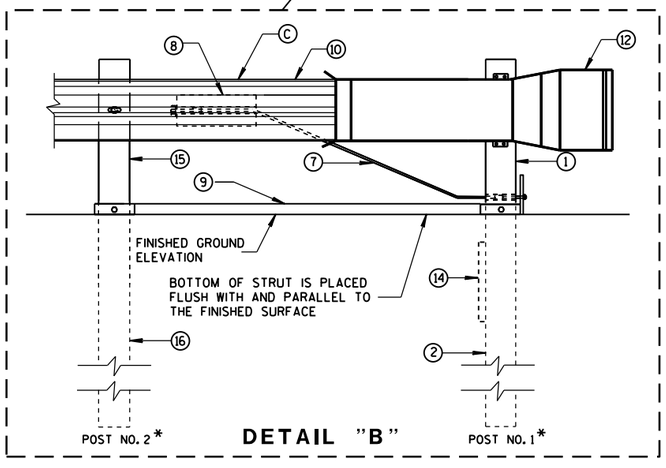
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

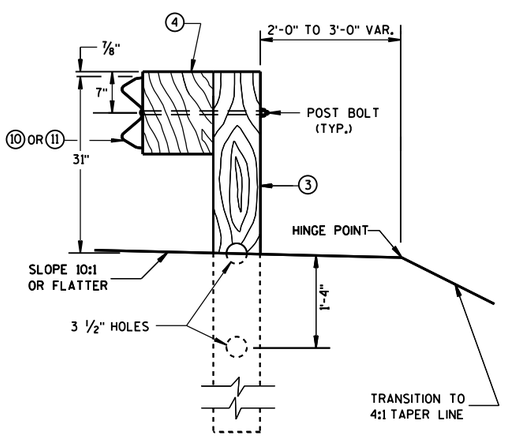
THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

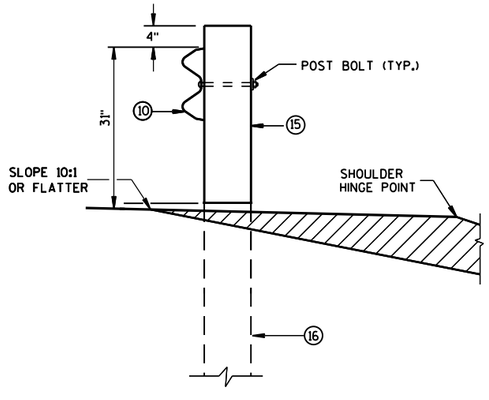


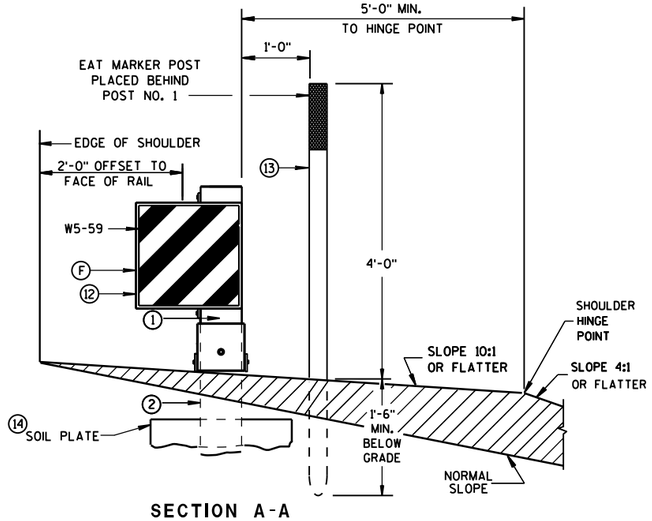












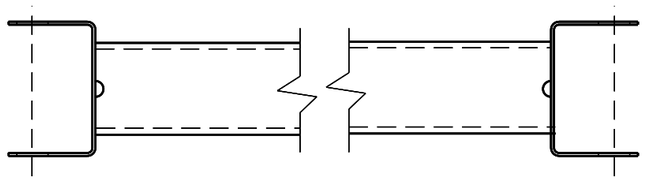
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
STATE OF WISCONSIN DEPARTMENT OF TRANSPO

6

S.D.D. 14 B 44-3a

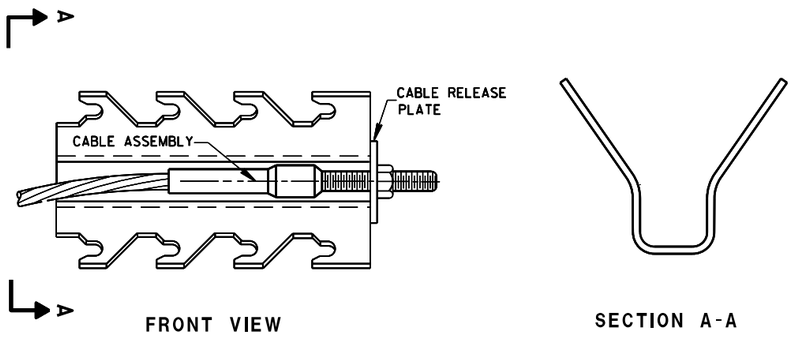
6

S.D.D. 14 B 44-3a



(9) (H)

GENERIC GROUND STRUT



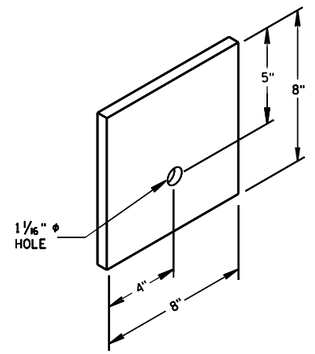
FRONT VIEW

SECTION A-A

GENERIC ANCHOR CABLE BOX (8) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	UPPER POST NO. 1 6" X 6" TUBE
(2)	LOWER POST NO. 1
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	IMPACT HEAD
(13)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
(14)	SOIL PLATE
(15)	UPPER POST NO. 2
(16)	LOWER POST NO. 2



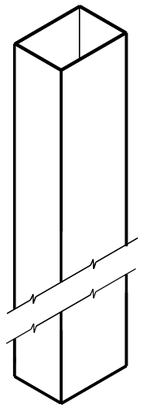
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

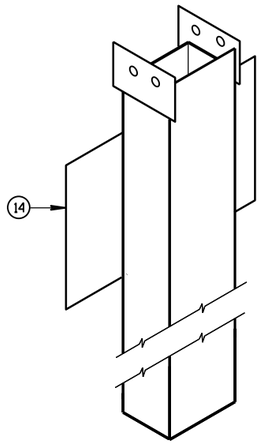
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

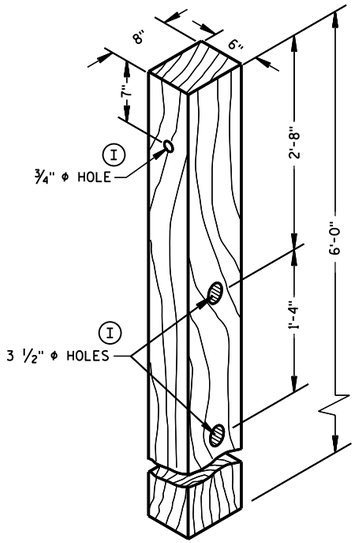
S.D.D. 14 B 44-3b



UPPER POST NO. 1 (1)

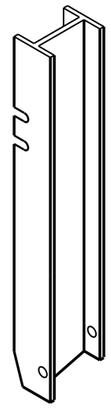


LOWER POST NO. 1 (2)

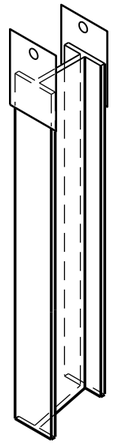


POSTS NUMBER 3-9

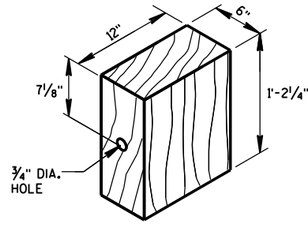
WOOD CRT POST (3)



UPPER POST NO. 2 (15)

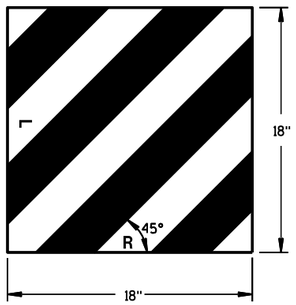


LOWER POST NO. 2 (16)



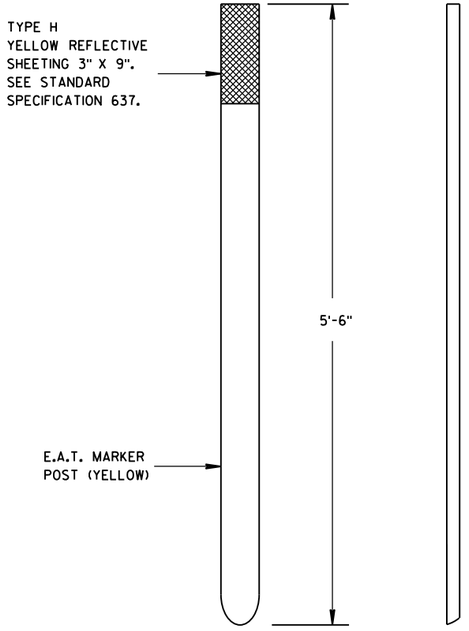
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



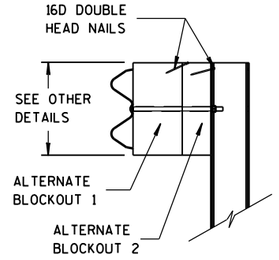
W5-59

REFLECTIVE SHEETING DETAIL (H)

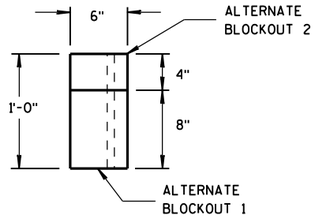


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

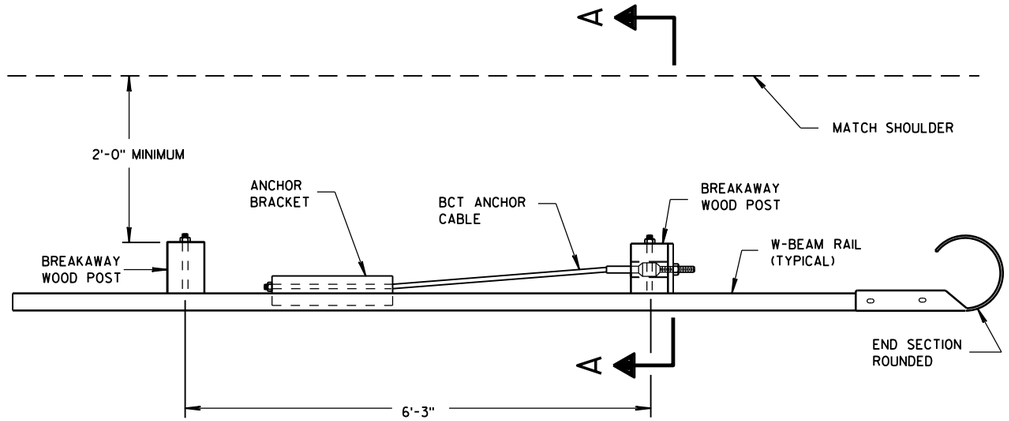
June 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERVISOR

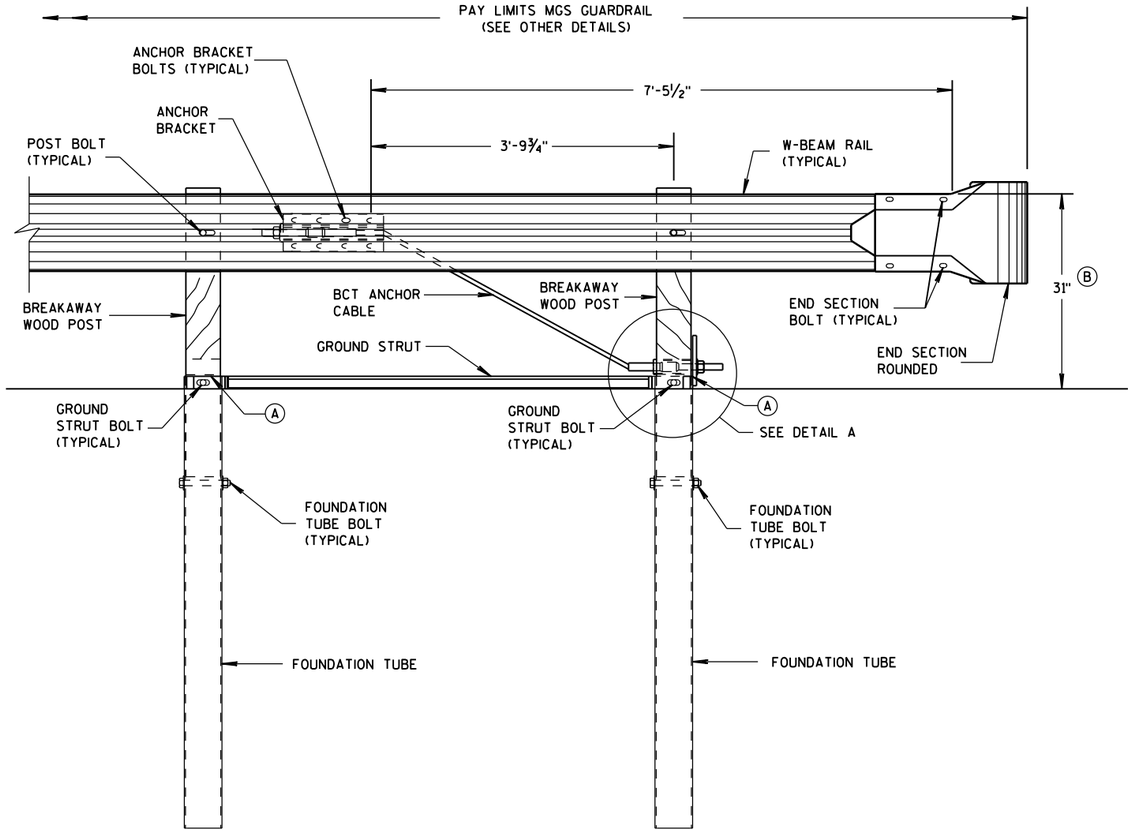
FHWA

6

S.D.D. 14 B 44-3c

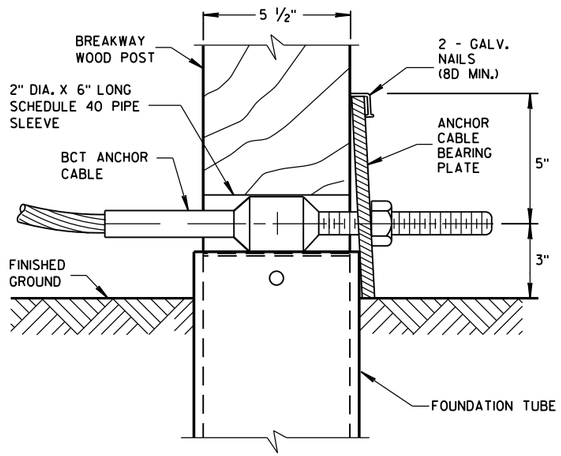


PLAN VIEW



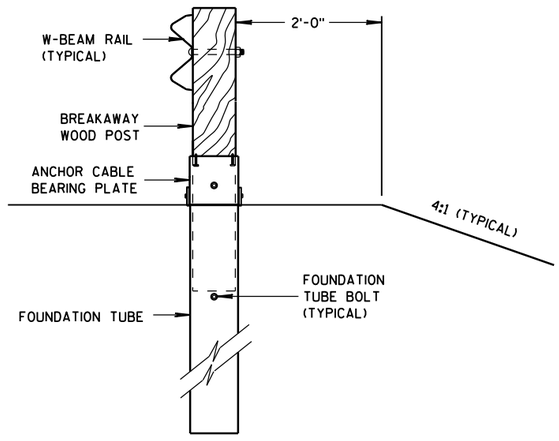
FRONT VIEW

END RAIL DETAIL



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.



SECTION A-A

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

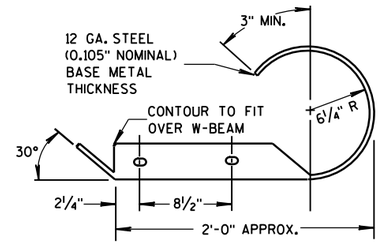
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

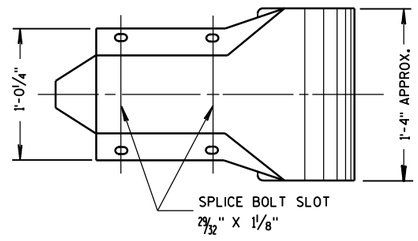
W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".



PLAN VIEW



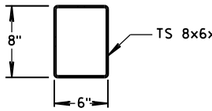
FRONT VIEW

W BEAM END SECTION ROUNDED

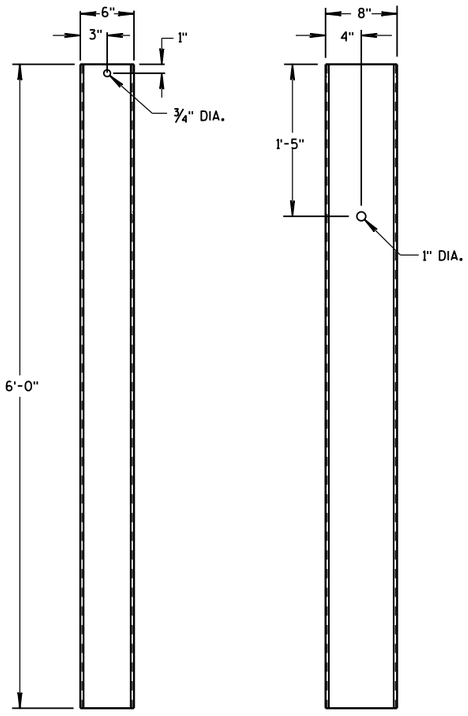
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 14 B 47-2a

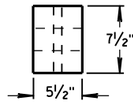


PLAN VIEW

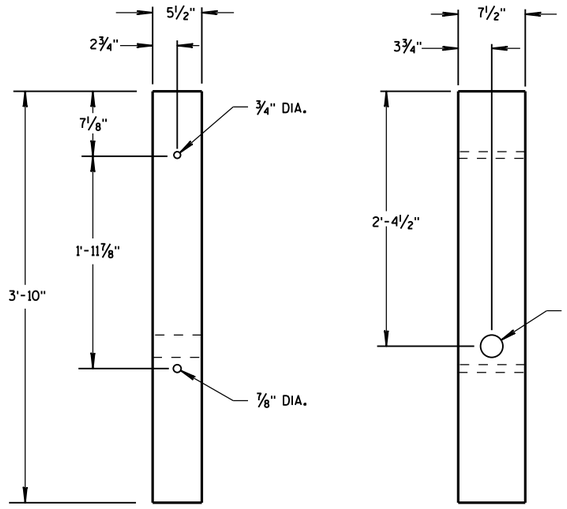


FRONT VIEW SIDE VIEW

FOUNDATION TUBE



PLAN VIEW



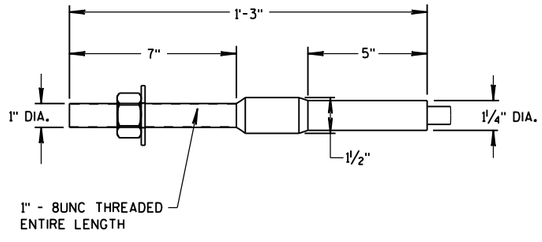
FRONT VIEW SIDE VIEW

BREAKAWAY WOOD POST

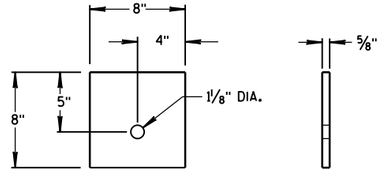
GENERAL NOTES

BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

BCT ANCHOR CABLE



DETAIL B



SIDE VIEW FRONT VIEW

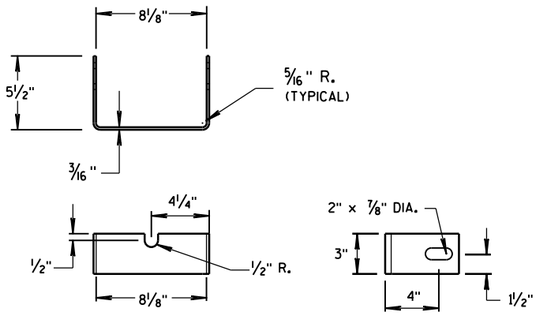
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

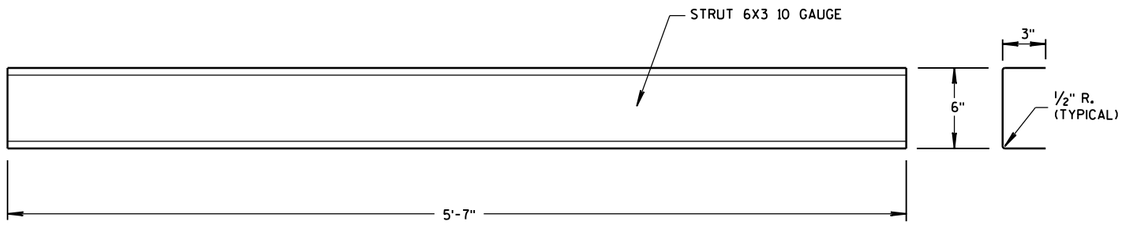
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

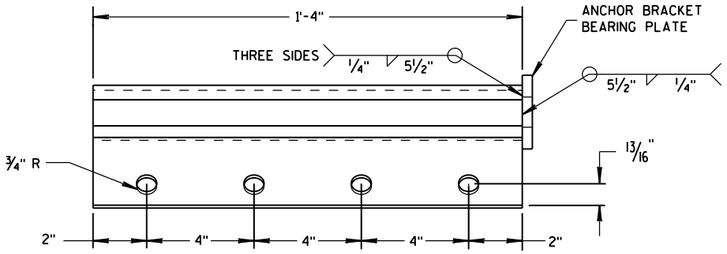
S.D.D. 14 B 47-2b

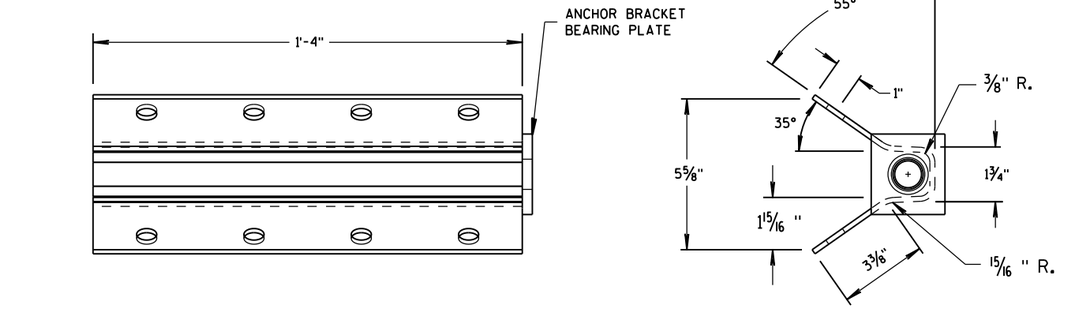


YOKE DETAIL

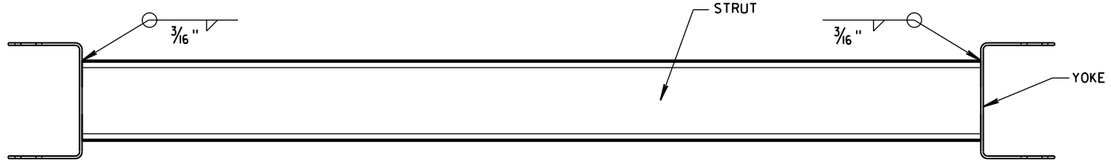


STRUT DETAIL

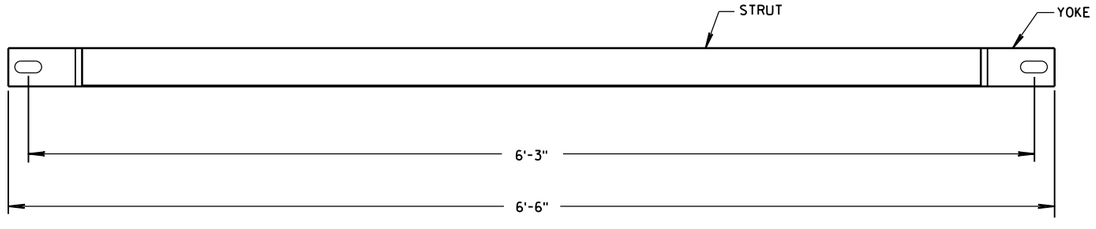




ANCHOR BRACKET

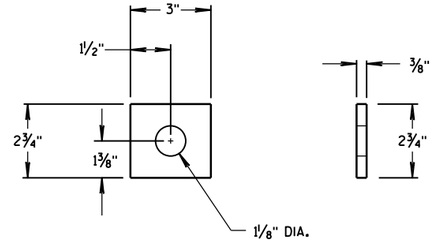


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

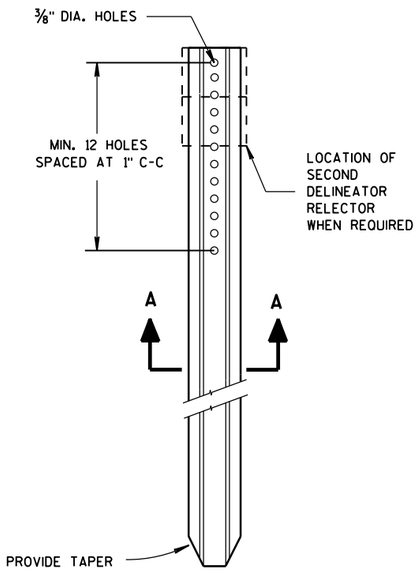
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

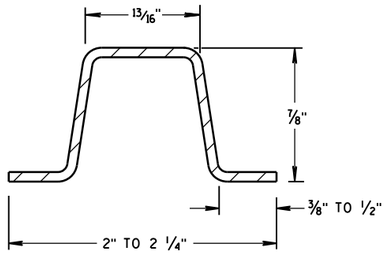
APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 47-2c

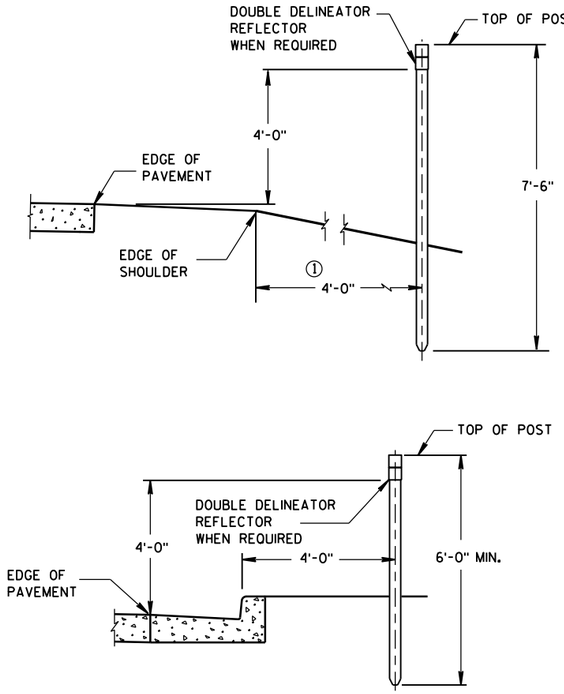


DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.

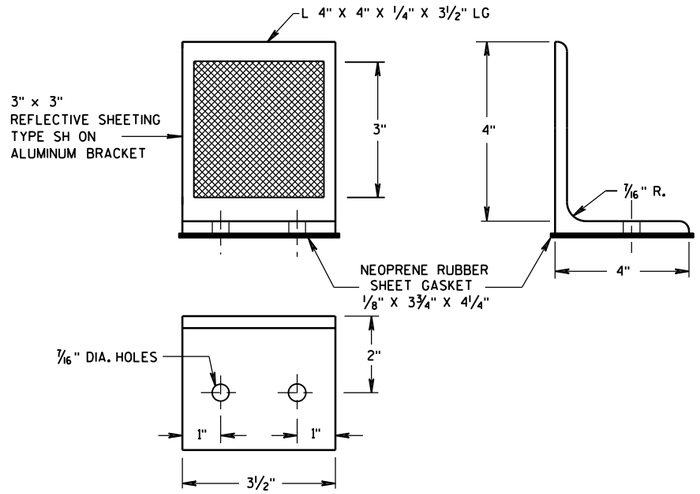


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

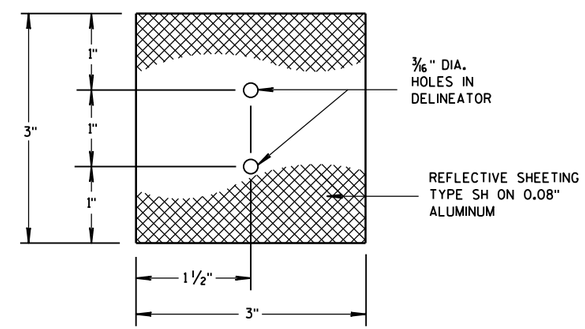
GENERAL NOTES

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

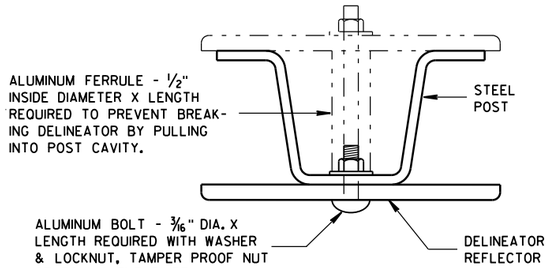
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



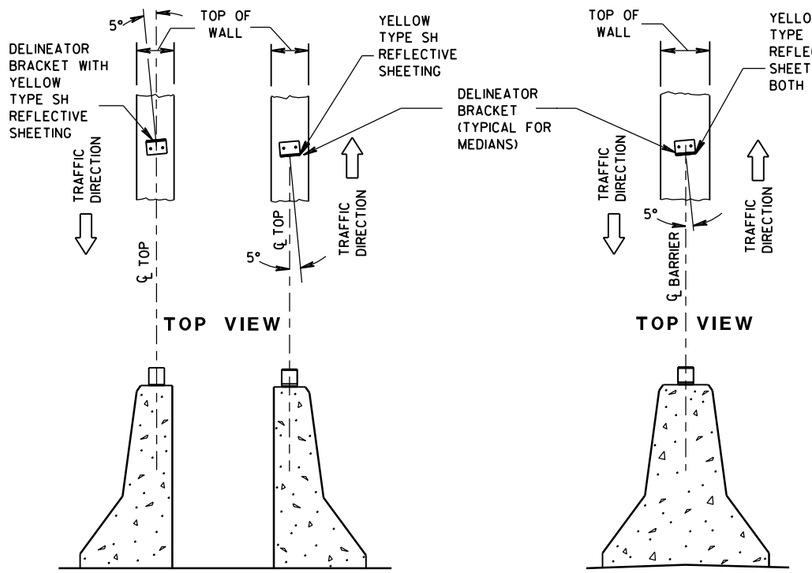
DELINEATOR BRACKET



3"x 3" DELINEATOR REFLECTOR

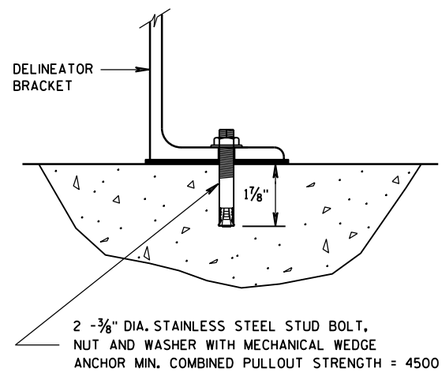


MOUNTING DETAIL FOR DELINEATOR REFLECTOR



DOUBLE BARRIERS IN MEDIAN | MEDIAN BARRIER | BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

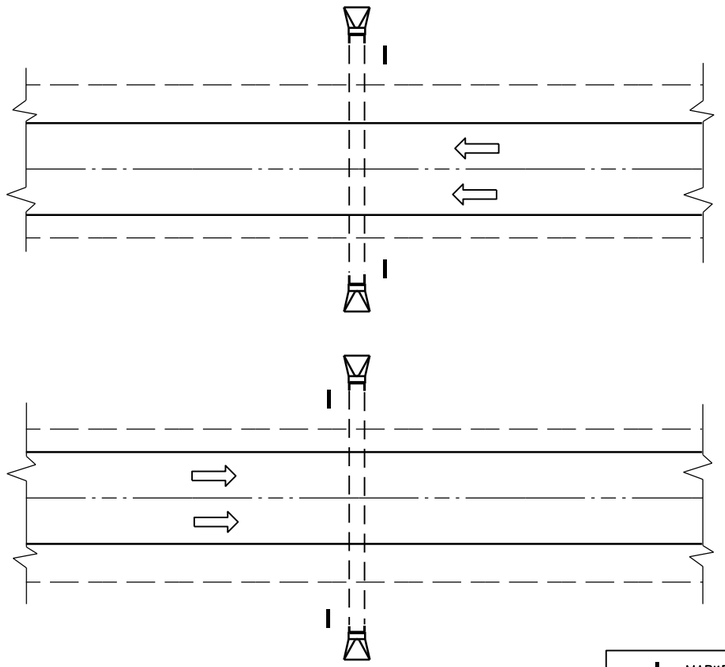
APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR 255 GINEER
FHWA

6

S.D.D. 15 A 2-9

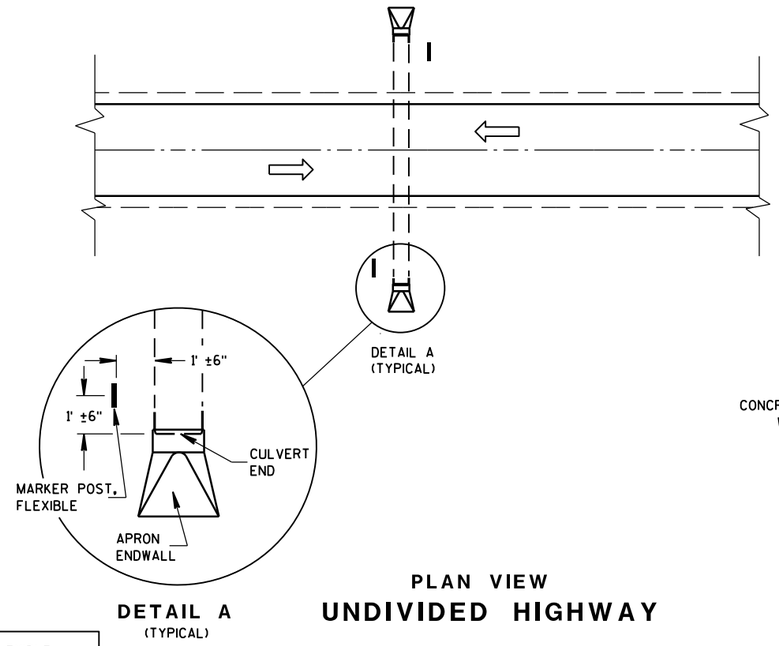
6

S.D.D. 15 A 2-9



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

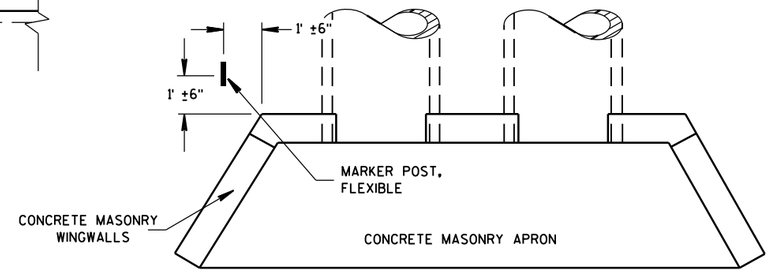
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

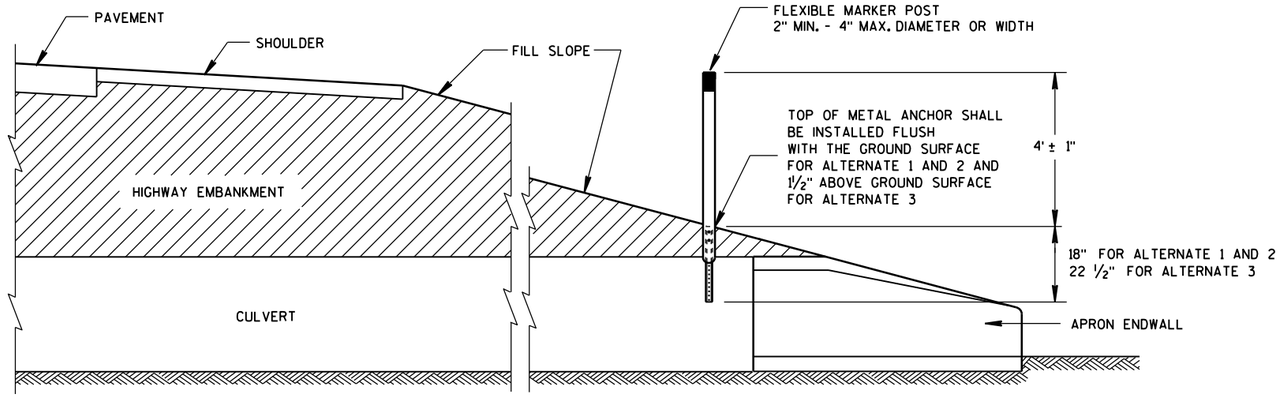
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

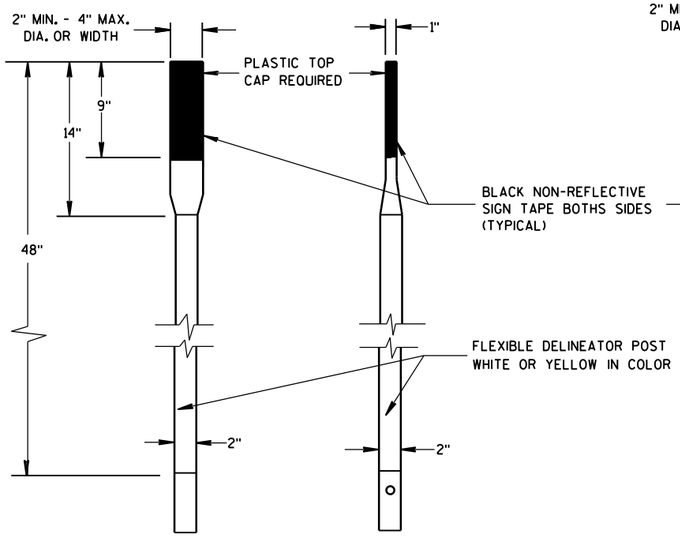
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

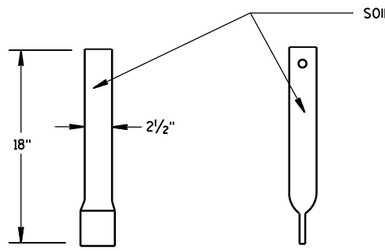
6

S.D.D. 15 A 3-2a

6

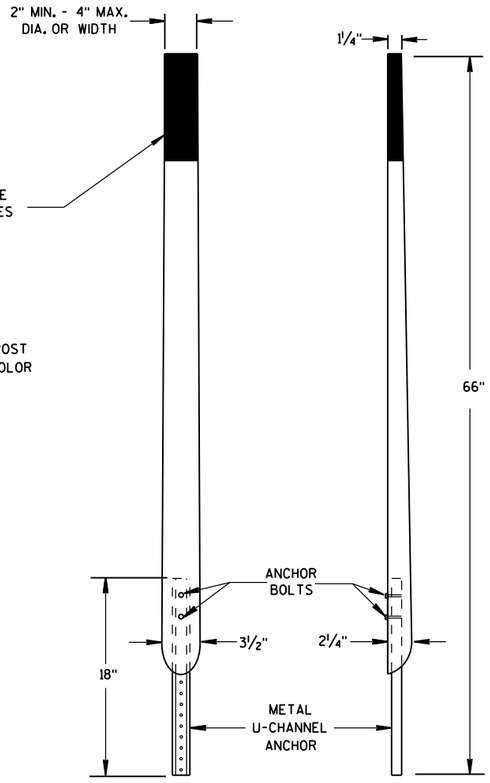
S.D.D. 15 A 3-2a





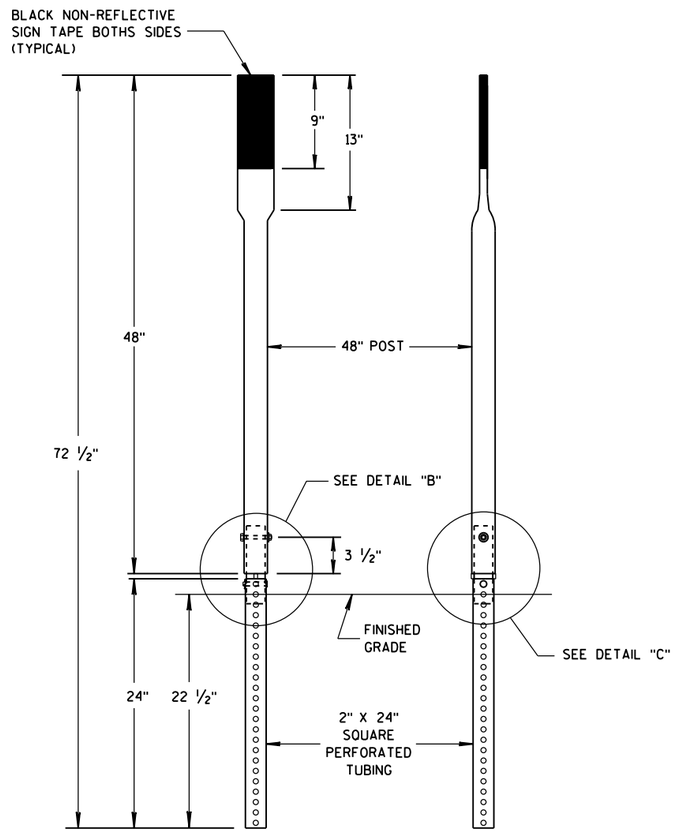
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

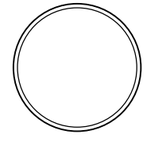
ALTERNATE 2



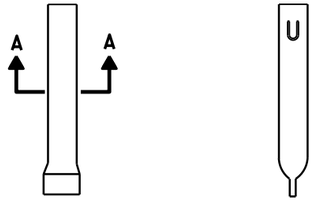
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

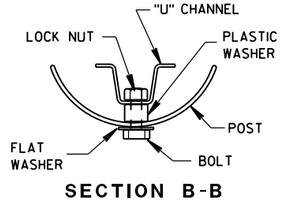


SECTION A-A

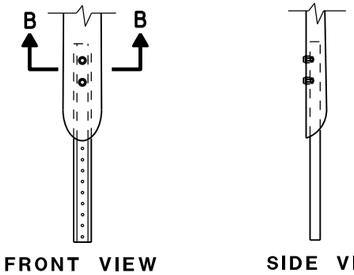


FRONT VIEW SIDE VIEW

ALTERNATE 1

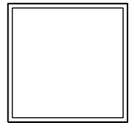


SECTION B-B

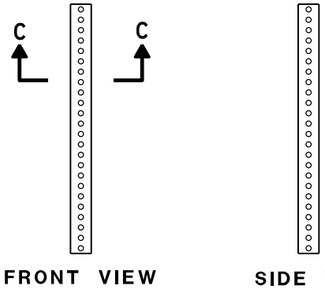


FRONT VIEW SIDE VIEW

ALTERNATE 2



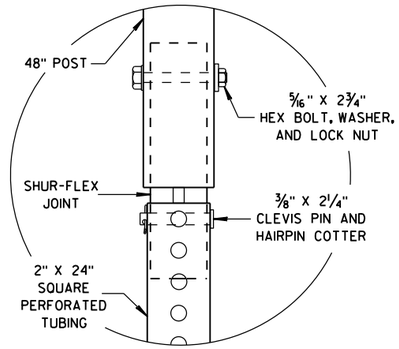
SECTION C-C



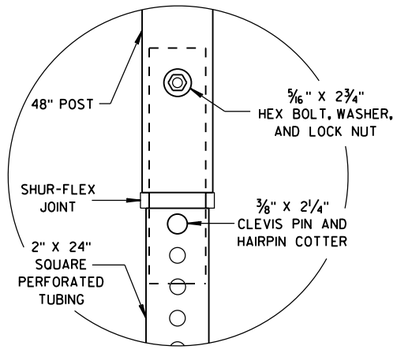
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

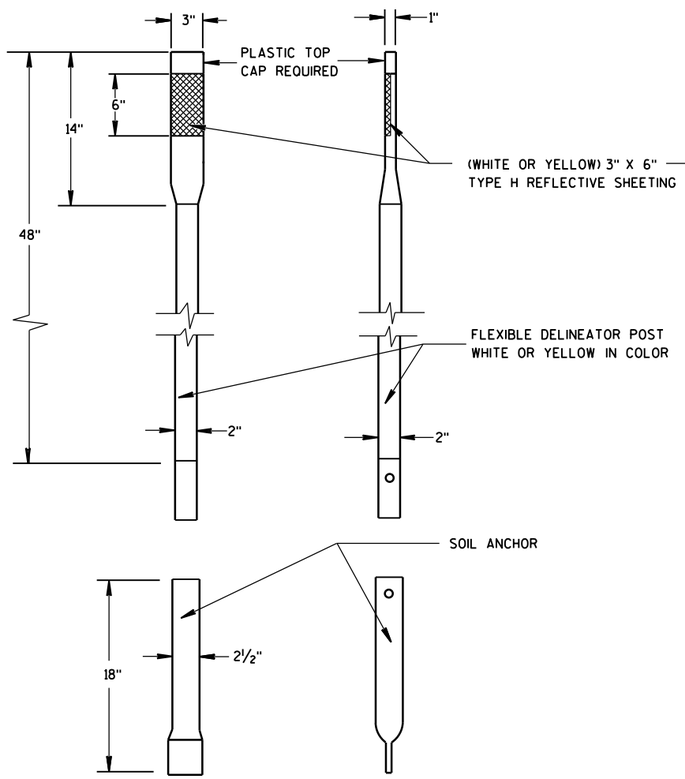
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
257
IGN
FHWA

6

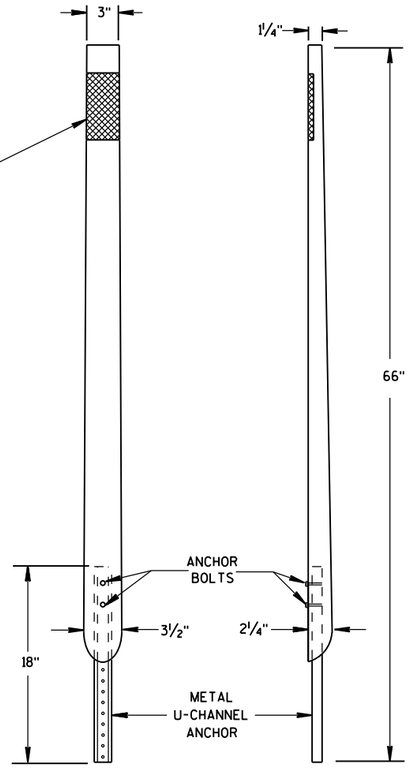
S.D.D. 15 A 3-2b

6

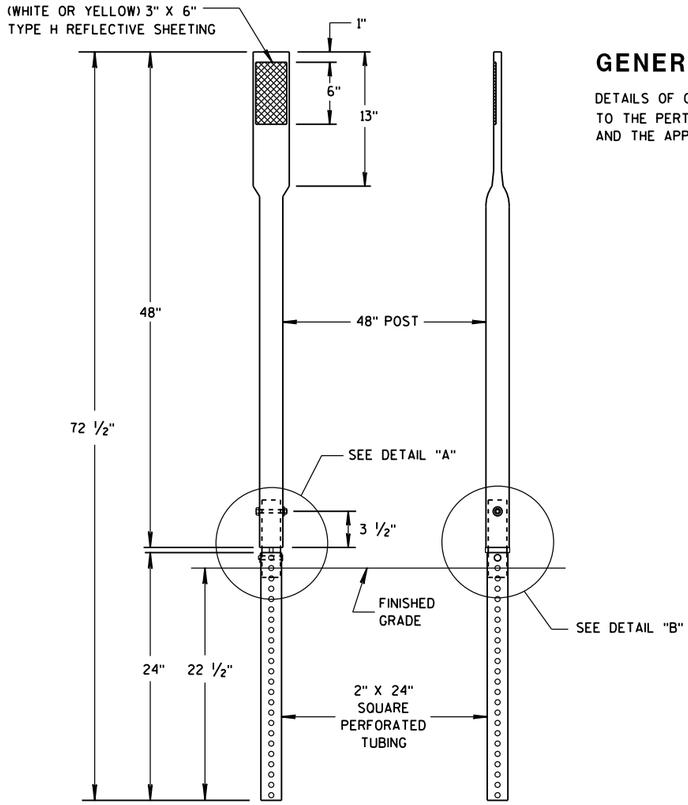
S.D.D. 15 A 3-2b



ALTERNATE 1



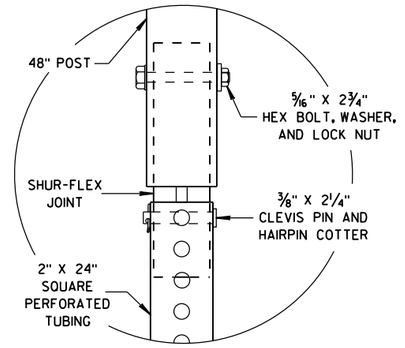
ALTERNATE 2
FLEXIBLE DELINEATOR POSTS



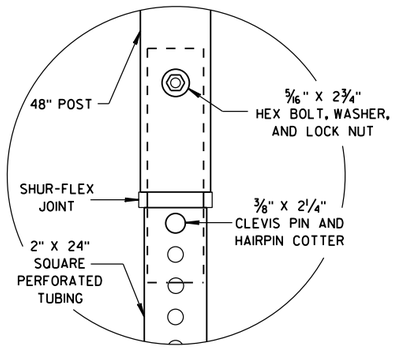
ALTERNATE 3

GENERAL NOTES

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



DETAIL A

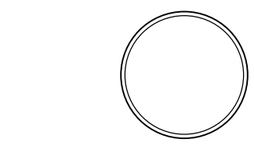


DETAIL B

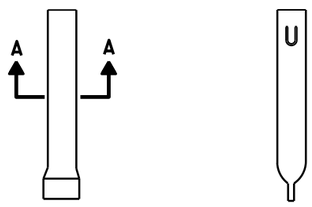
REFLECTOR SPACING TABLE

REFLECTOR SPACING	LOCATION
*100' C-C	RAMPS
400' C-C	MAINLINE

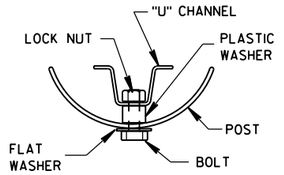
*START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER



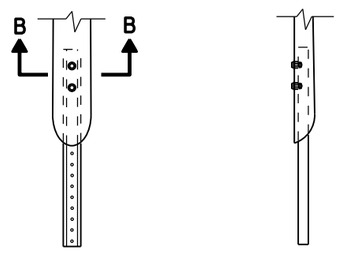
SECTION A-A



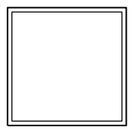
ALTERNATE 1



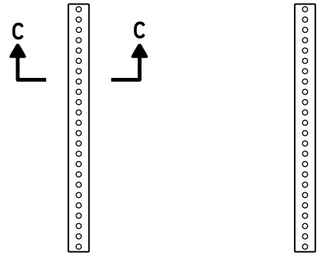
SECTION B-B



ALTERNATE 2
FLEXIBLE MARKER POST ANCHORS



SECTION C-C



ALTERNATE 3

FLEXIBLE DELINEATOR POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
STATE SIGNING AND MARKING ENGINEER

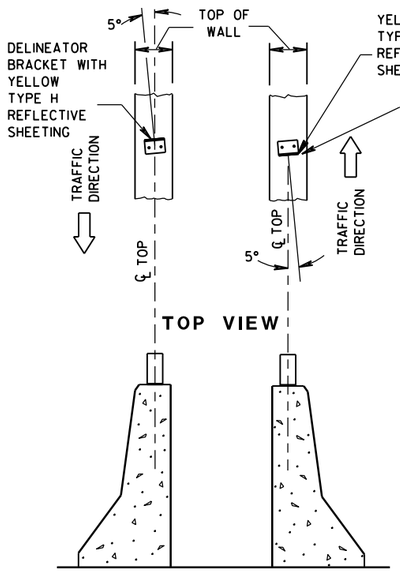
FHWA

6

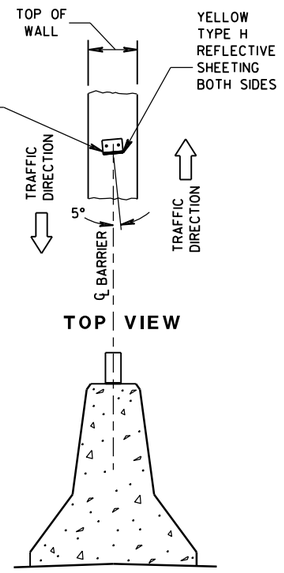
S.D.D. 15 A 4-3a

6

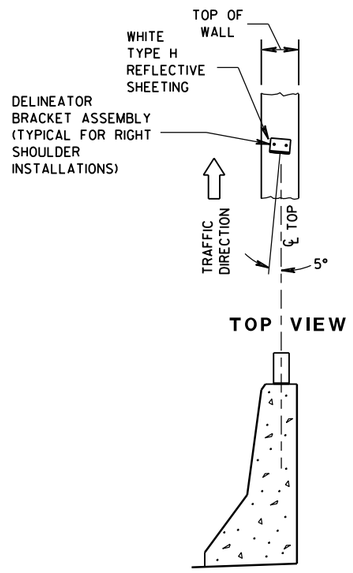
S.D.D. 15 A 4-3a



DOUBLE BARRIERS IN MEDIAN

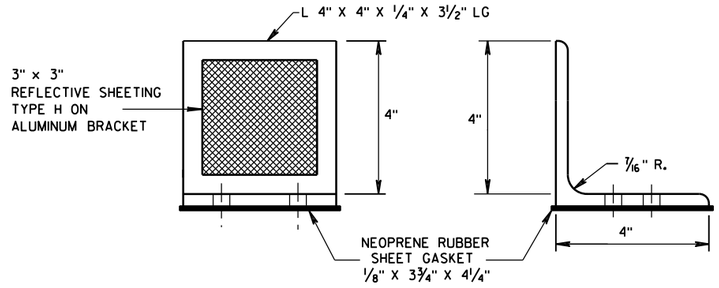


MEDIAN BARRIER

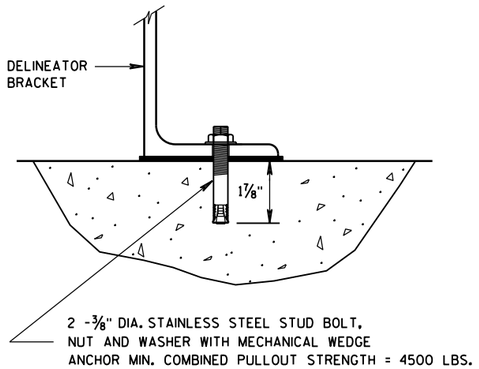


BARRIER LOCATED
TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET



DELINEATOR BRACKET
MOUNTING DETAIL

REFLECTOR SPACING TABLE

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3

DELINEATOR BRACKET
WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

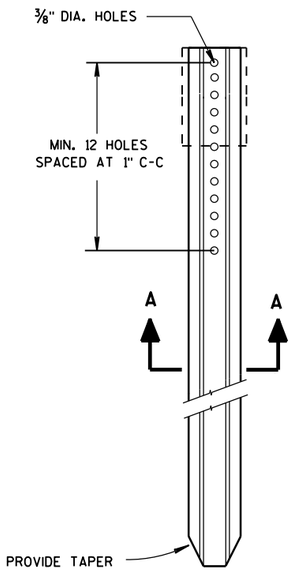
APPROVED
June 2017
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAI 259 GINEER
FHWA

6

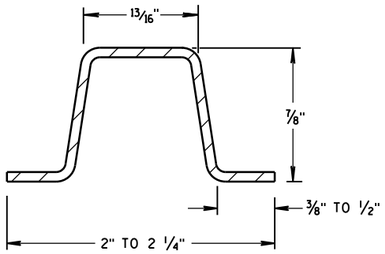
S.D.D. 15 A 4-3b

6

S.D.D. 15 A 4-3b

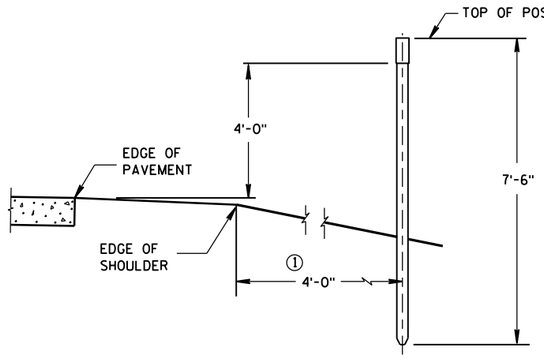


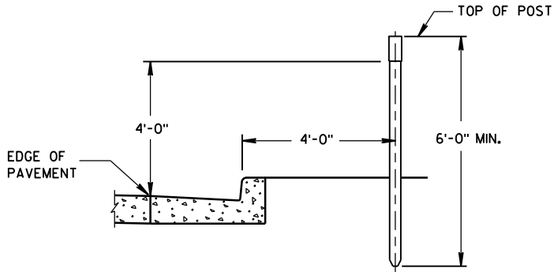
DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.





TYPICAL INSTALLATIONS OF DELINEATOR POSTS

GENERAL NOTES

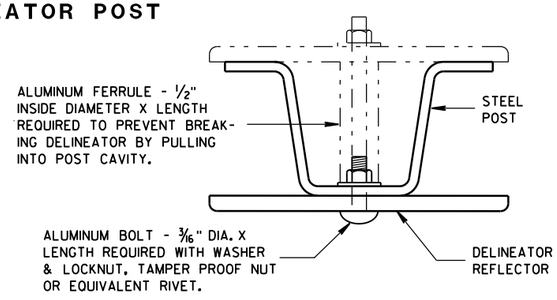
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.

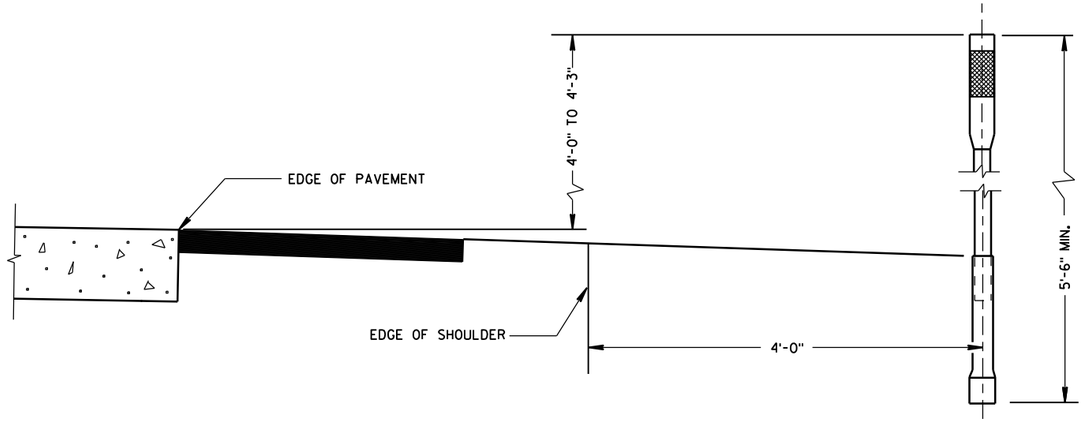
REFLECTOR SPACING TABLE

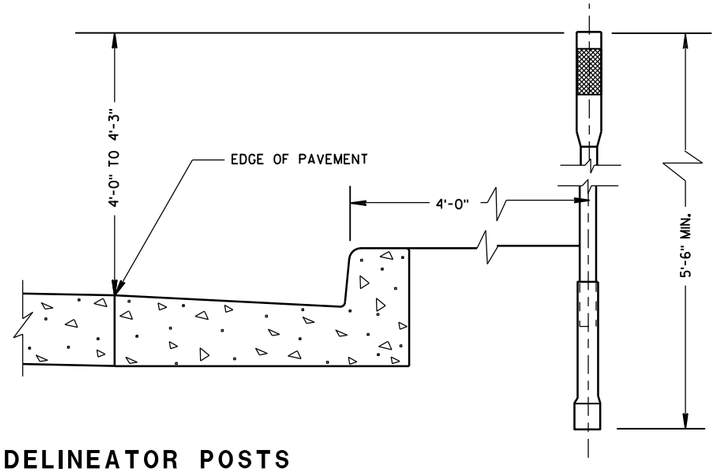
REFLECTOR SPACING	LOCATION
400'	MAINLINE
100'	RAMPS *

* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER.



MOUNTING DETAIL FOR DELINEATOR REFLECTOR





TYPICAL INSTALLATIONS OF FLEXIBLE DELINEATOR POSTS

DELINEATOR POST WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAI[illegible]GINEER

FHWA

6

S.D.D. 15 A 4-3c

6

S.D.D. 15 A 4-3c

GENERAL NOTES

PANEL THICKNESS SHALL BE A MINIMUM OF 0.08 INCHES.

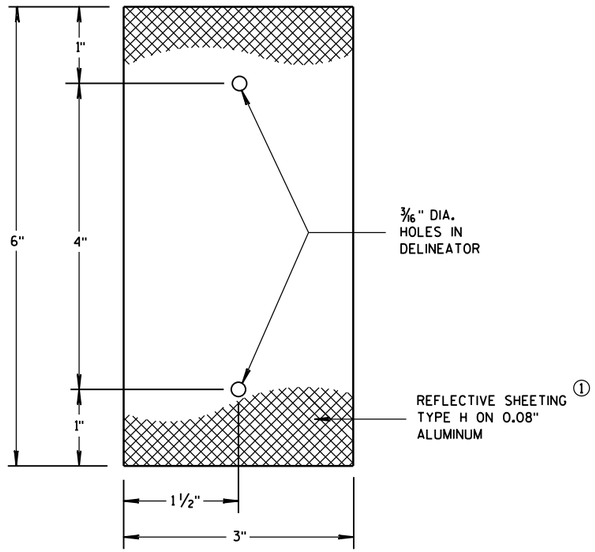
PLASTIC BASE MATERIAL SHALL BE WHITE, UV STABILIZED, FLAME TREATED TO THE MANUFACTURER SPECIFICATIONS AND BE ABLE TO WITHSTAND SUB FREEZING TEMPERATURES WITHOUT BREAKING.

① FURNISH TYPE H SHEETING FROM THE APPPROVED PRODUCTS LIST.

② FURNISH DELINEATOR REFLECTOR FOR GUARDRAIL FROM THE APPPROVED PRODUCTS LIST.

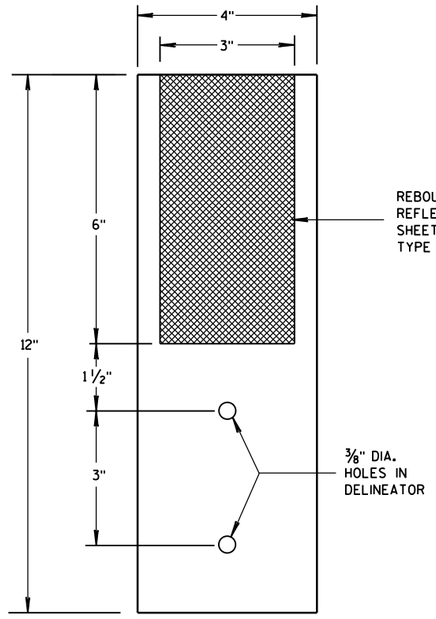
REFLECTOR SPACING TABLE

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3



3"x 6" DELINEATOR REFLECTOR

(FOR STEEL POSTS)



4"x 12" DELINEATOR REFLECTOR

(FOR GUARDRAIL) ②

DELINEATOR
WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

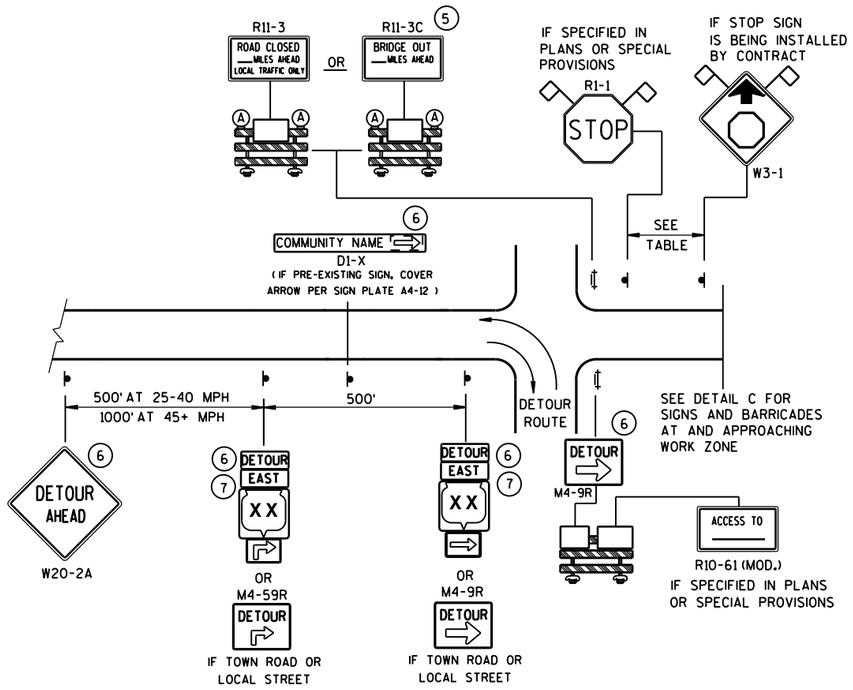
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR[illegible]GINEER
FHWA

6

S.D.D. 15 A 4-3d

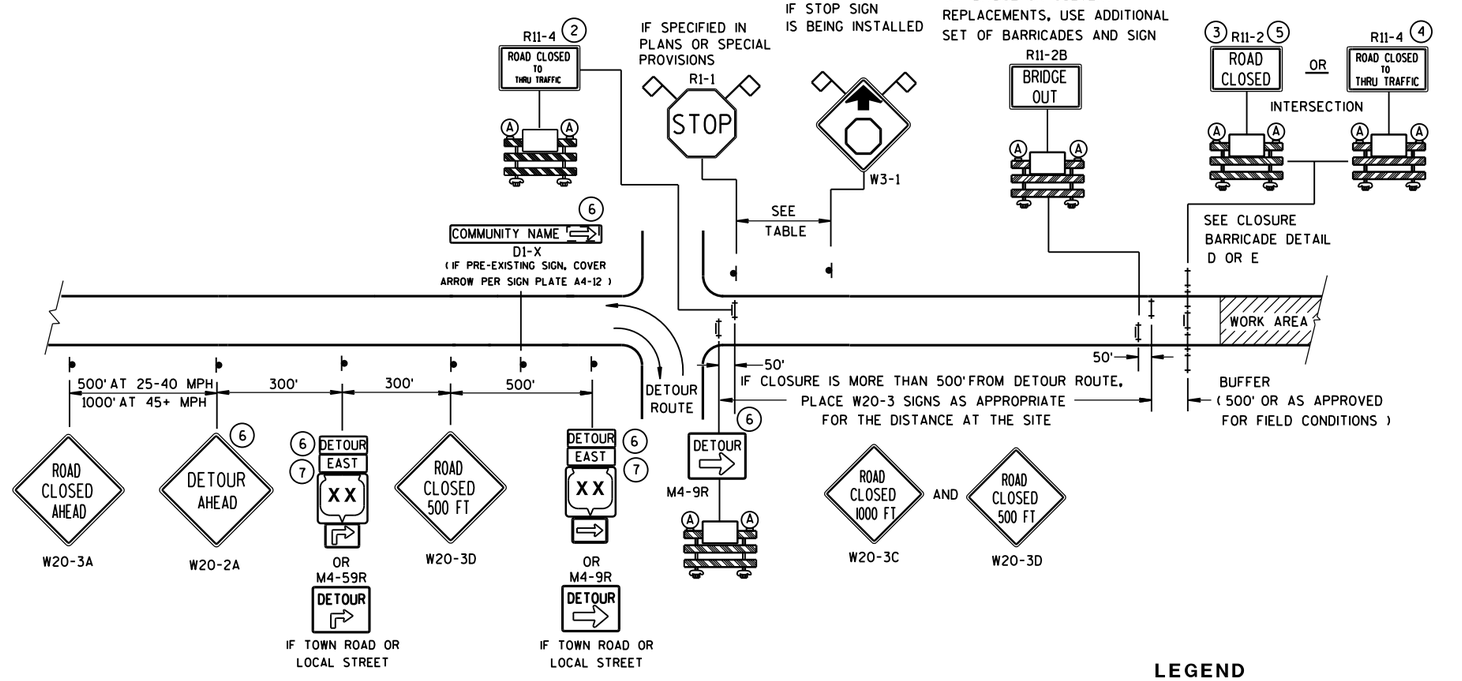
6

S.D.D. 15 A 4-3d



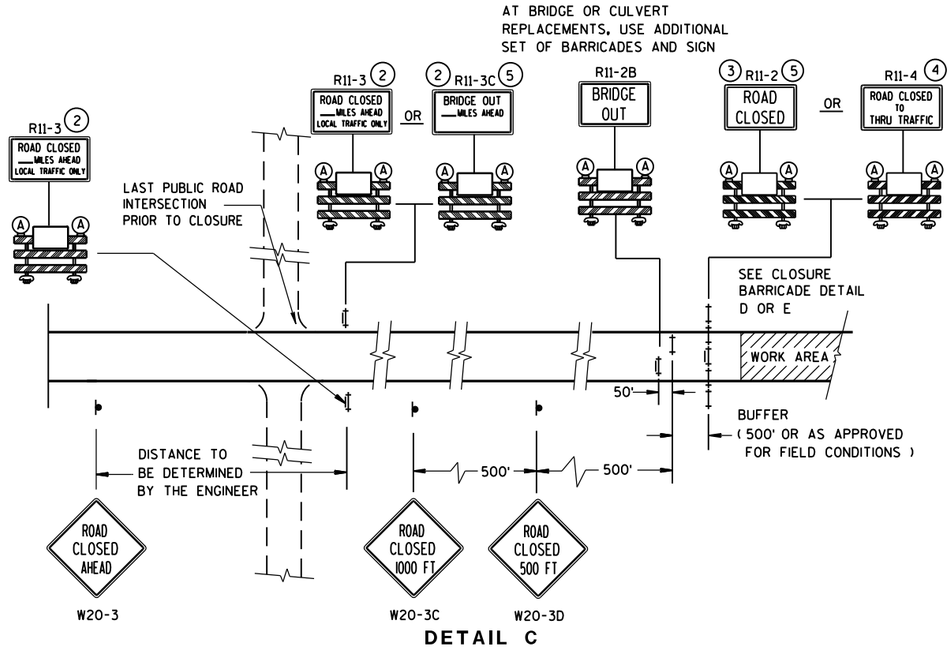
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

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



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

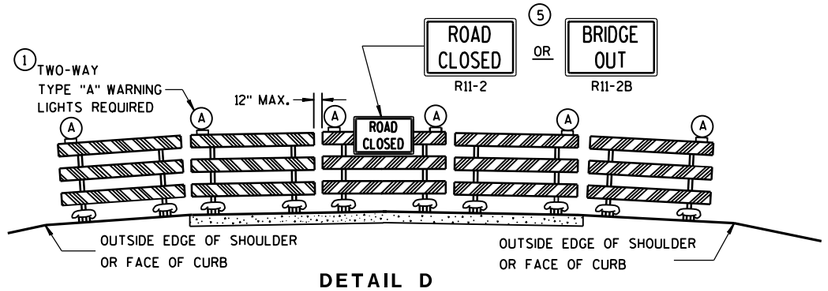
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 C 2-6a

6

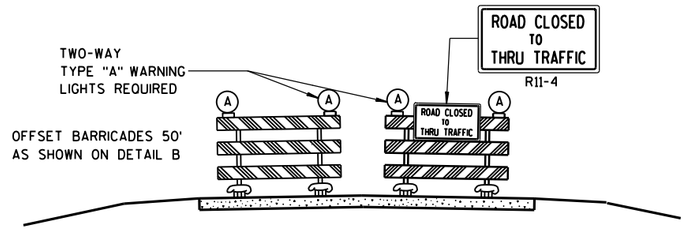
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, 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". (30" X 15" 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.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

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

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT 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 LANE 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 MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FHWA — FIC

6

S.D.D. 15 C 2-6b

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

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.

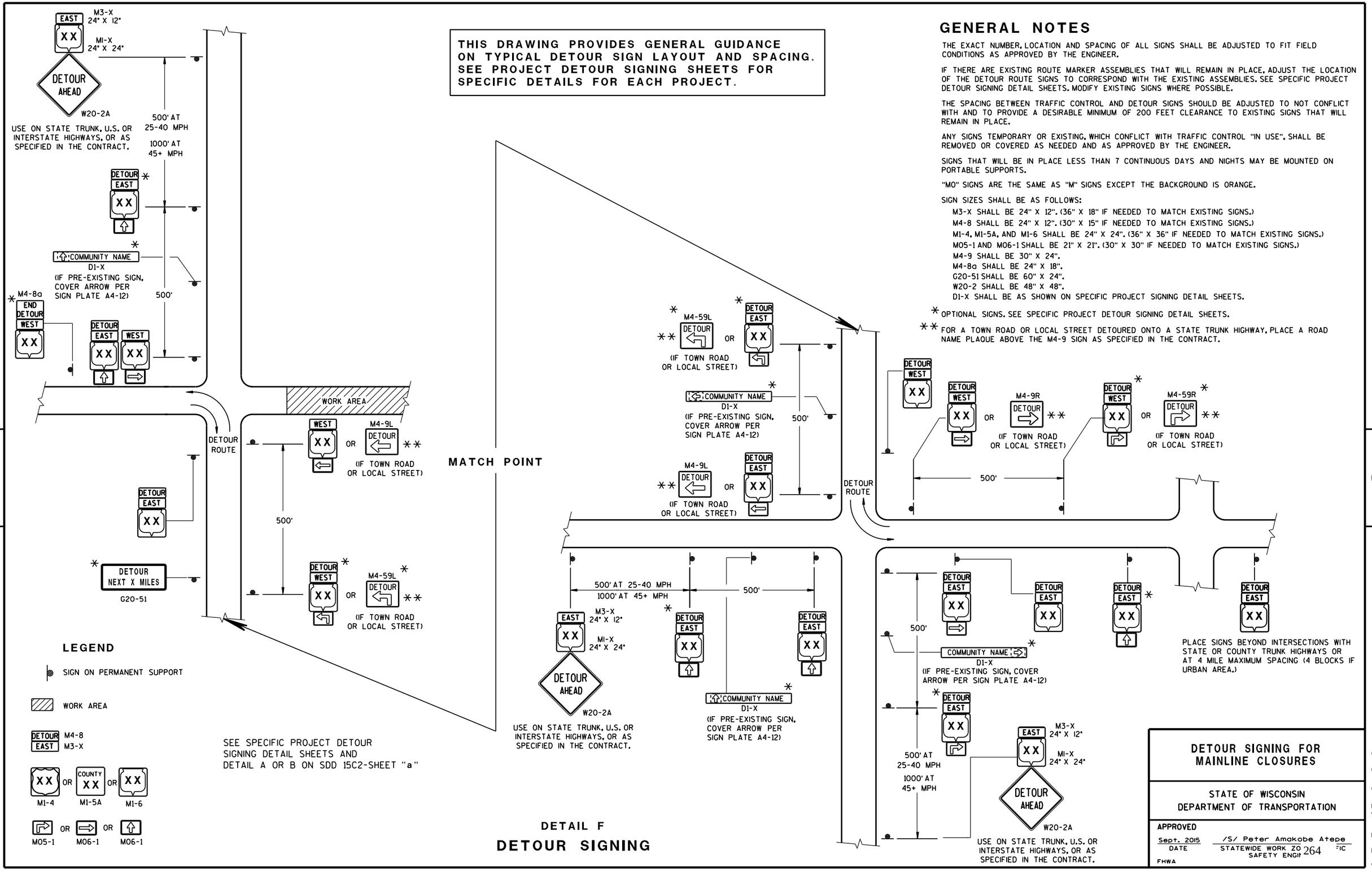
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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". (30" X 15" 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.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 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.



LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR EAST — M4-8 / M3-X
- XX OR COUNTY XX OR XX — M1-4 / M1-5A / M1-6
- MO5-1 OR MO6-1 OR MO6-1

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... FIC

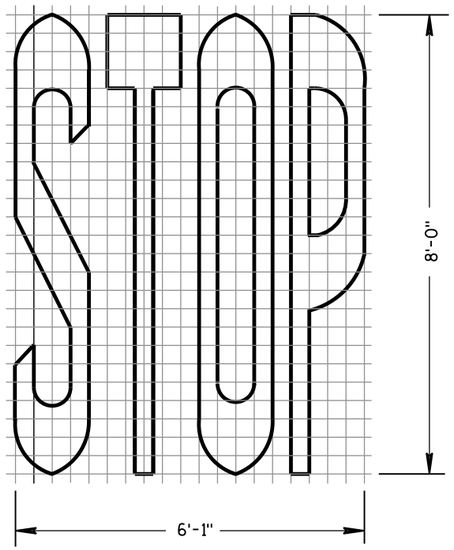
FHWA

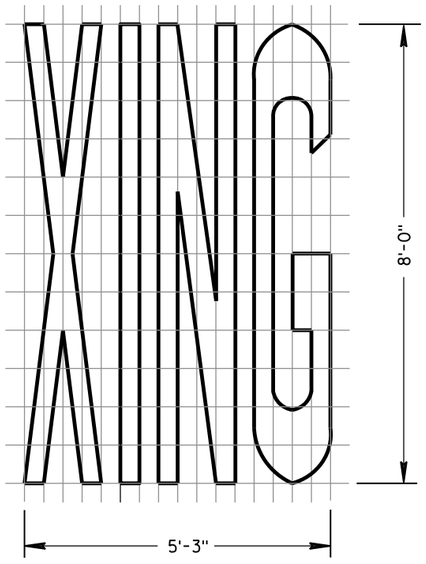
S.D.D. 15 C 2-6c

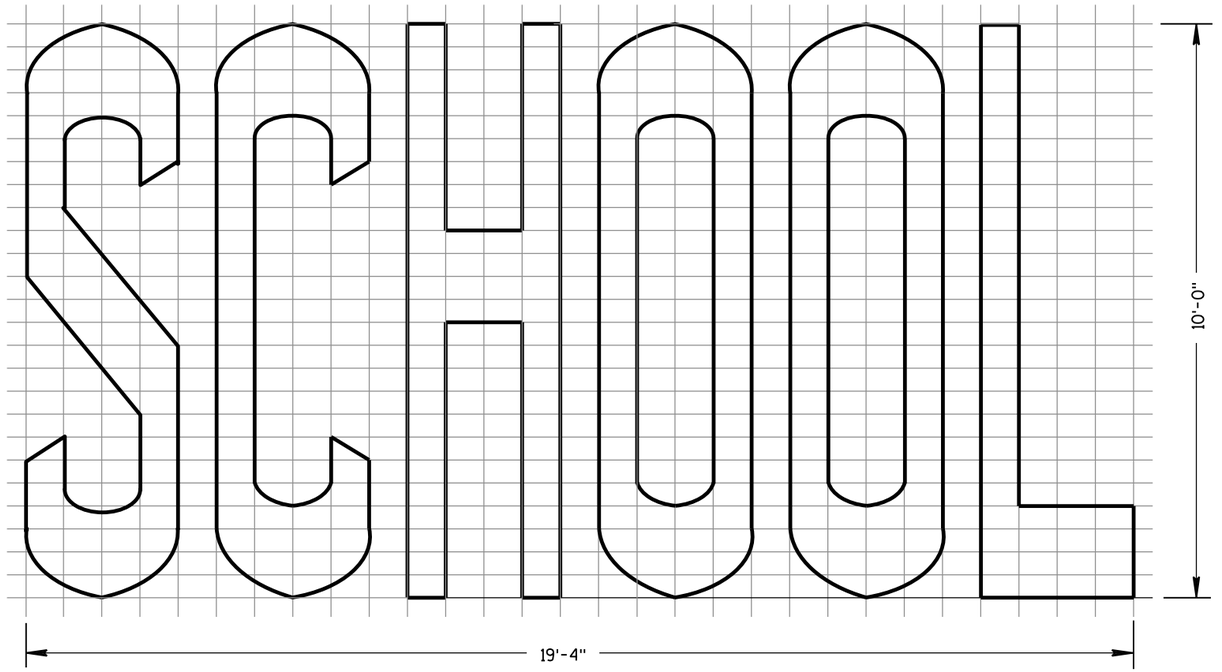
S.D.D. 15 C 2-6c

GENERAL NOTES

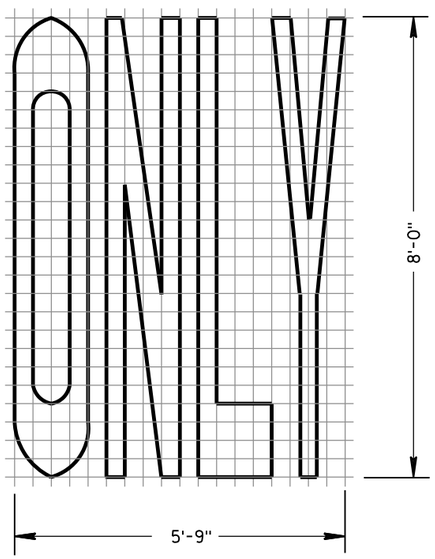
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

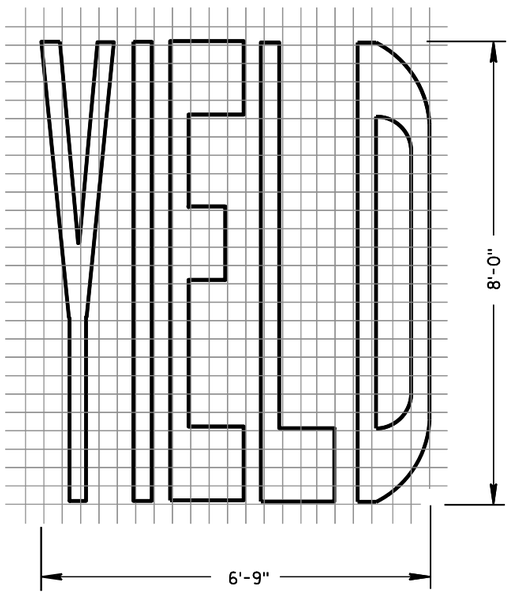


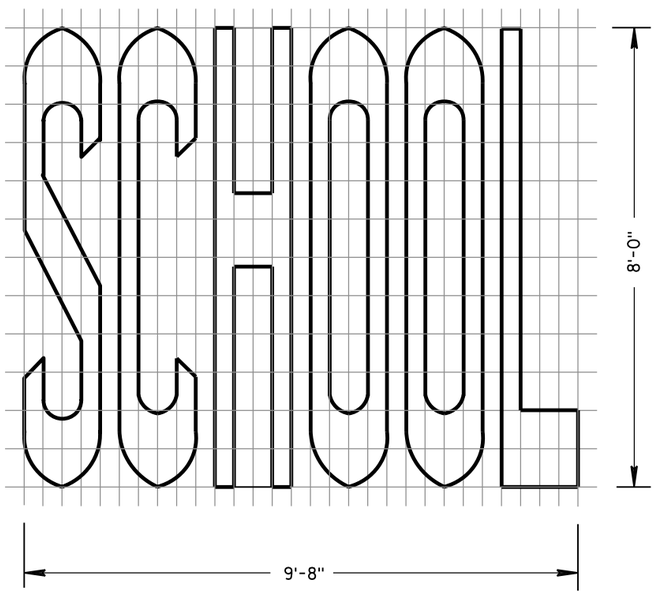




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
EER
FHWA

6

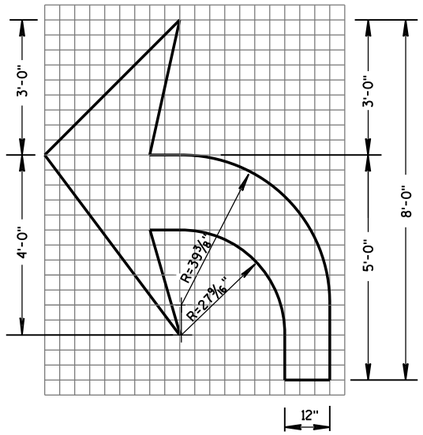
S.D.D. 15 C 7-14b

6

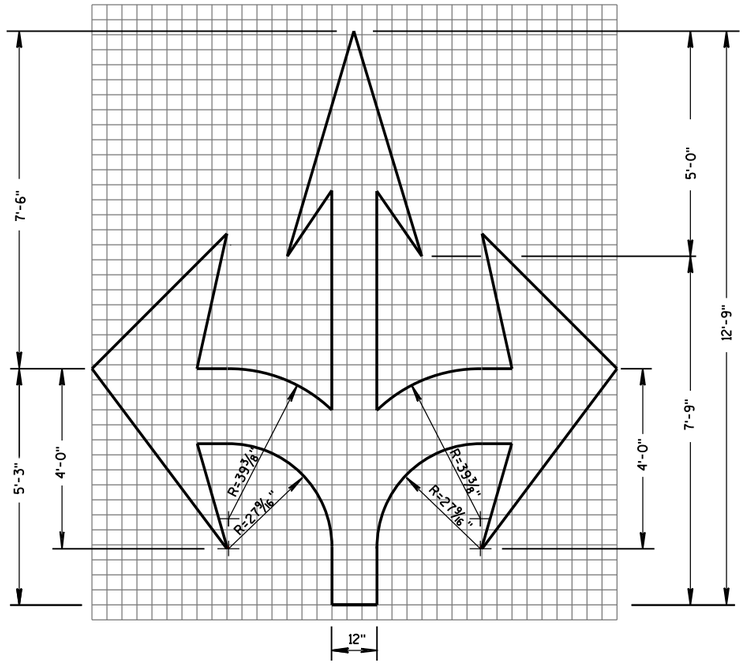
S.D.D. 15 C 7-14b

GENERAL NOTES

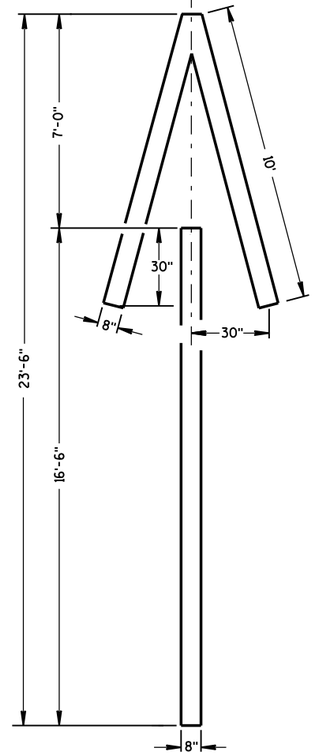
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



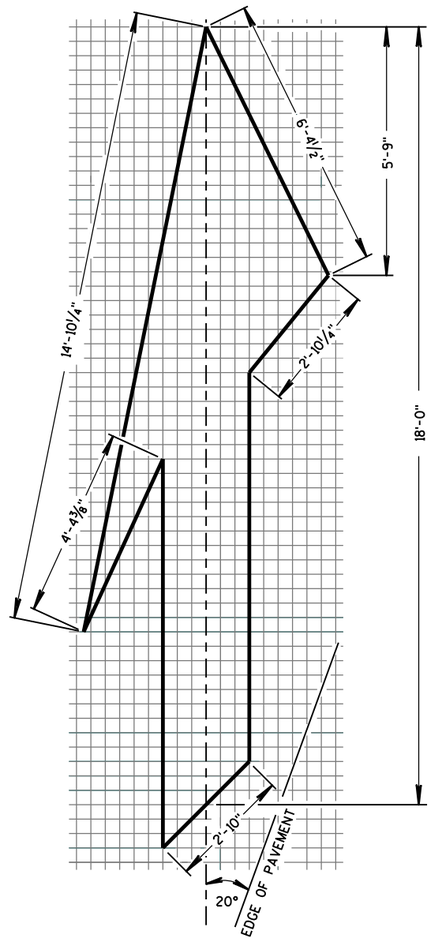
TYPE 2



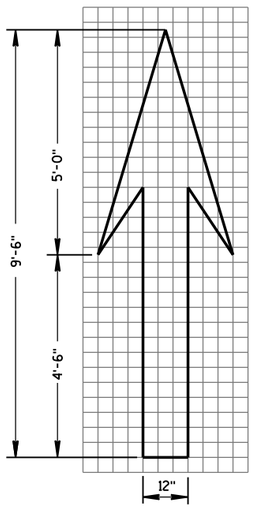
TYPE 6



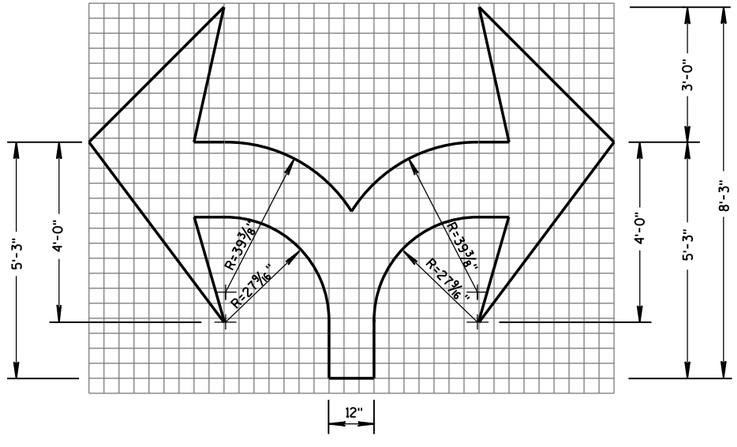
TYPE 4



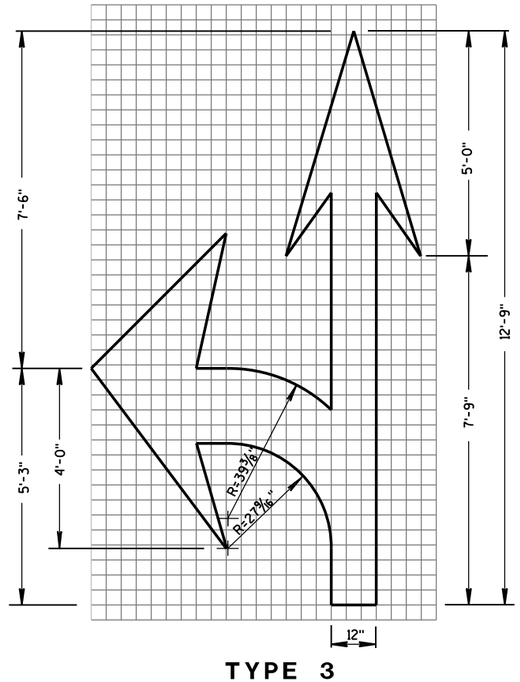
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

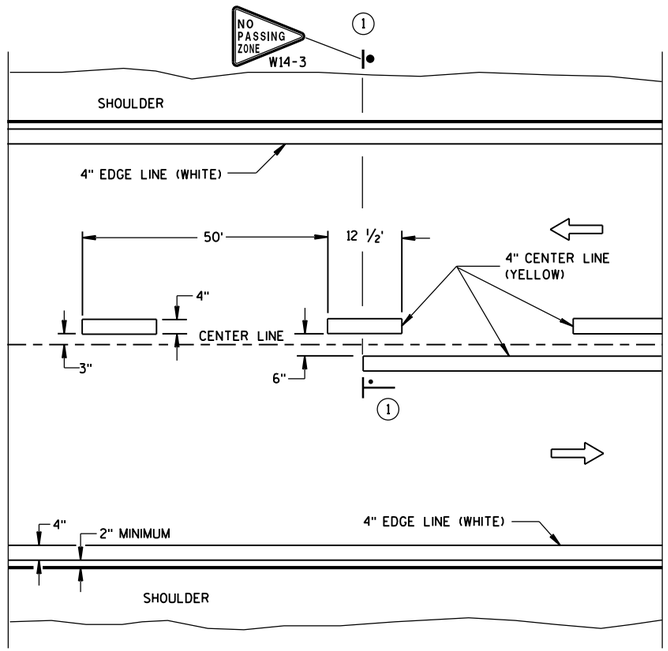
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

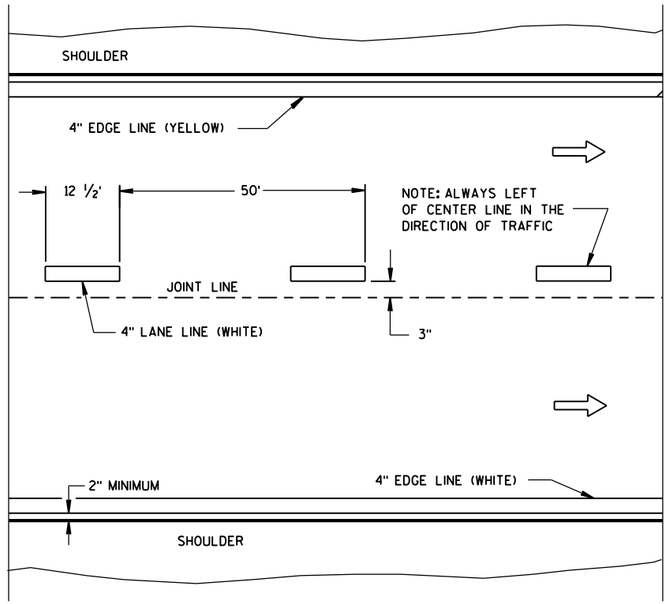
S.D.D. 15 C 7-14c

6

S.D.D. 15 C 7-14c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

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.

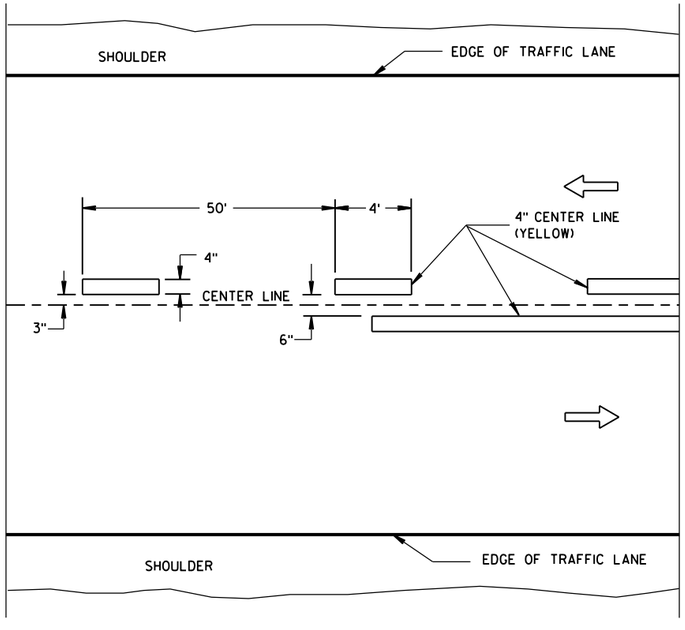
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

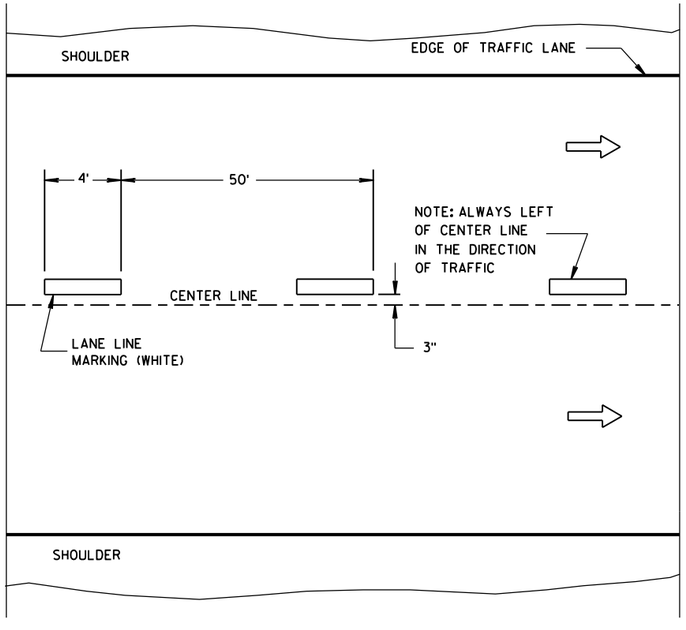
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

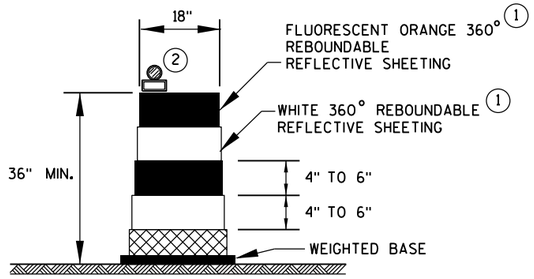
LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MAR[illegible]INEER
FHWA	

6

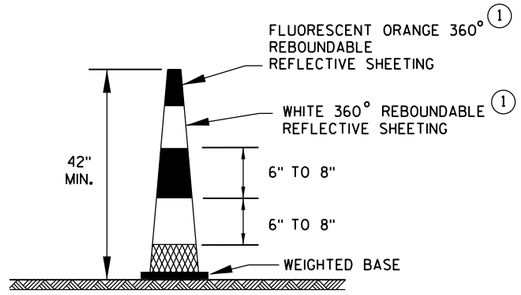
S.D.D. 15 C 8-18a

6

S.D.D. 15 C 8-18a



DRUM

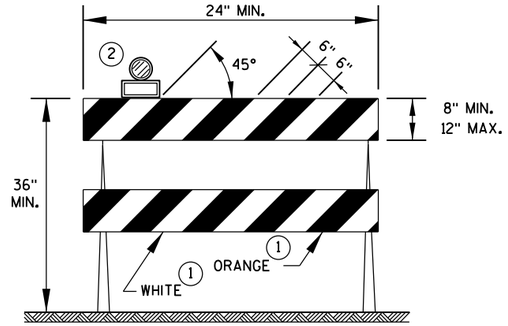


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

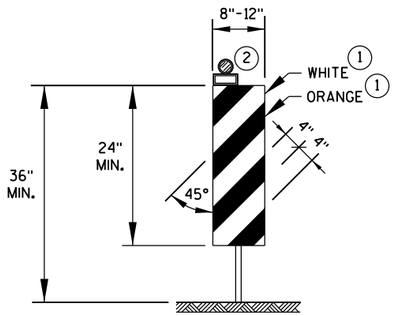
GENERAL NOTES

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.



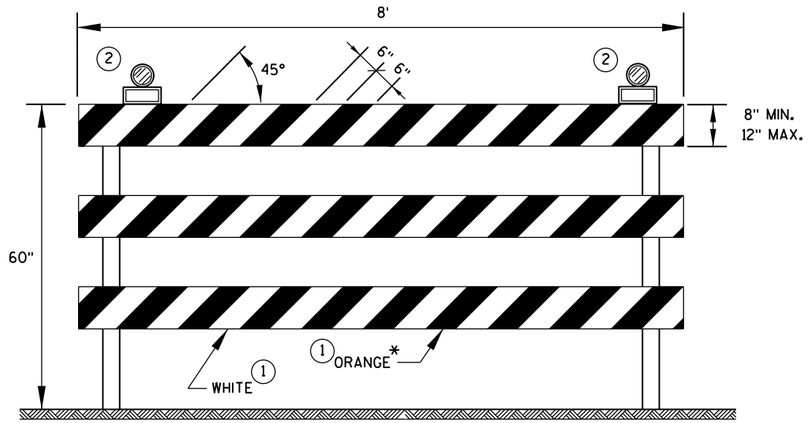
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

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



TYPE 3 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

June 2017 — DATE

/S/ Andrew Heidtke — WORK ZONE ENG

FHWA

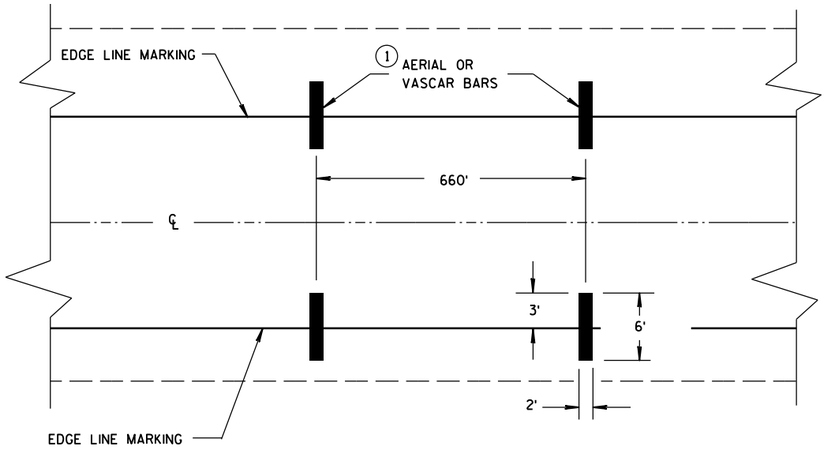
6

S.D.D. 15 C 11-7b

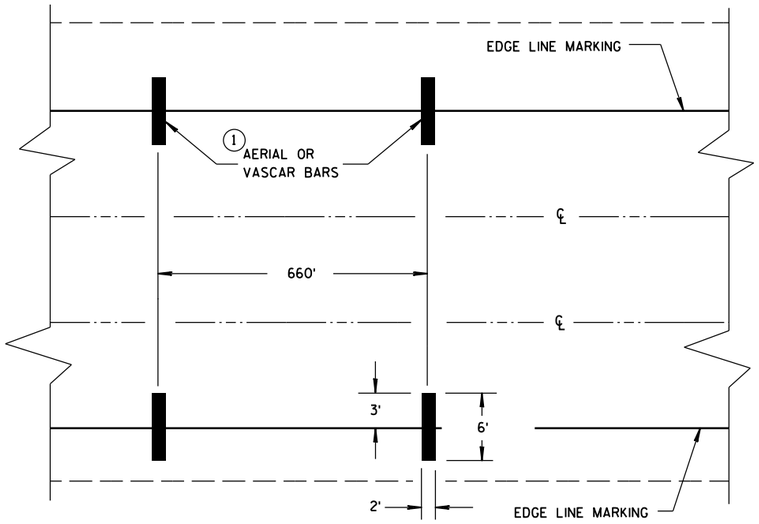
GENERAL NOTES

(1) PLACE TWO TO FIVE AERIAL OR VASCAR BARS AT 660 FOOT SPACING.

A CAR CAN BE PROVIDED BY THE WISCONSIN STATE PATROL FOR TRAFFIC CONTROL.



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

6

S.D.D. 15 C 14-3

AERIAL ENFORCEMENT BARS
PAVEMENT MARKING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MAR ENGINEER
FHWA

6

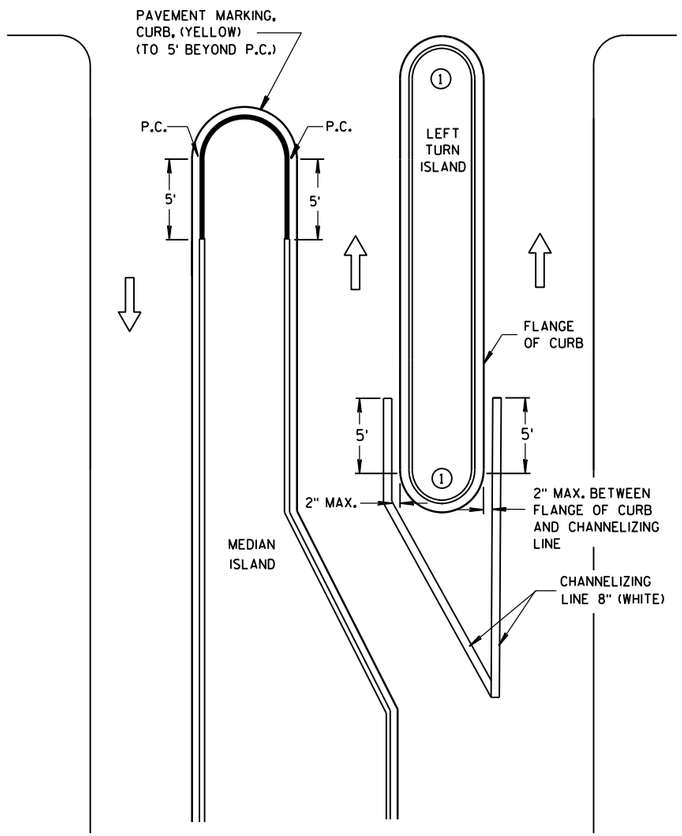
S.D.D. 15 C 14-3

GENERAL NOTE

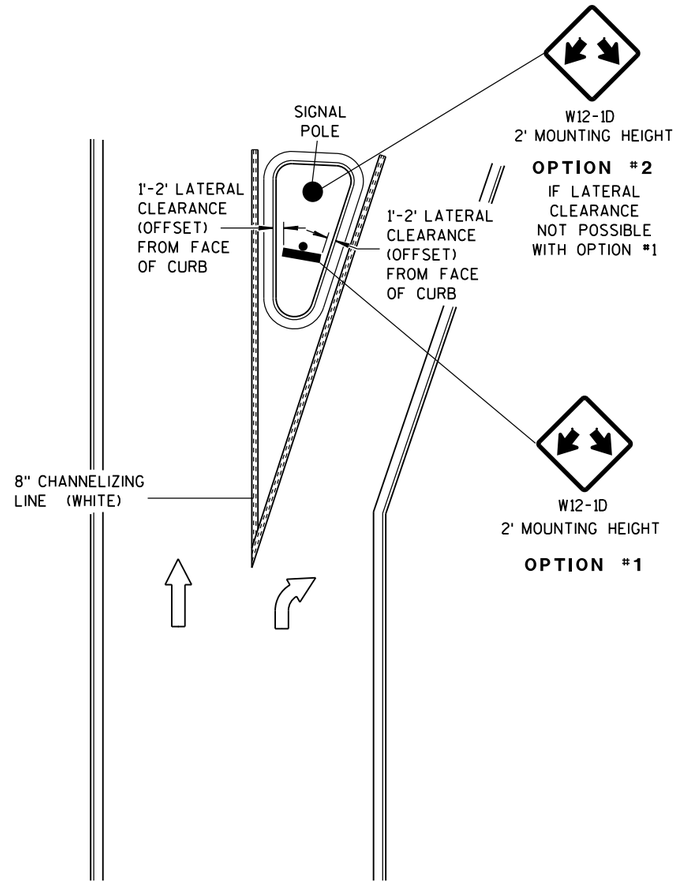
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

DIRECTION OF TRAVEL



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND

DOUBLE ARROW
WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

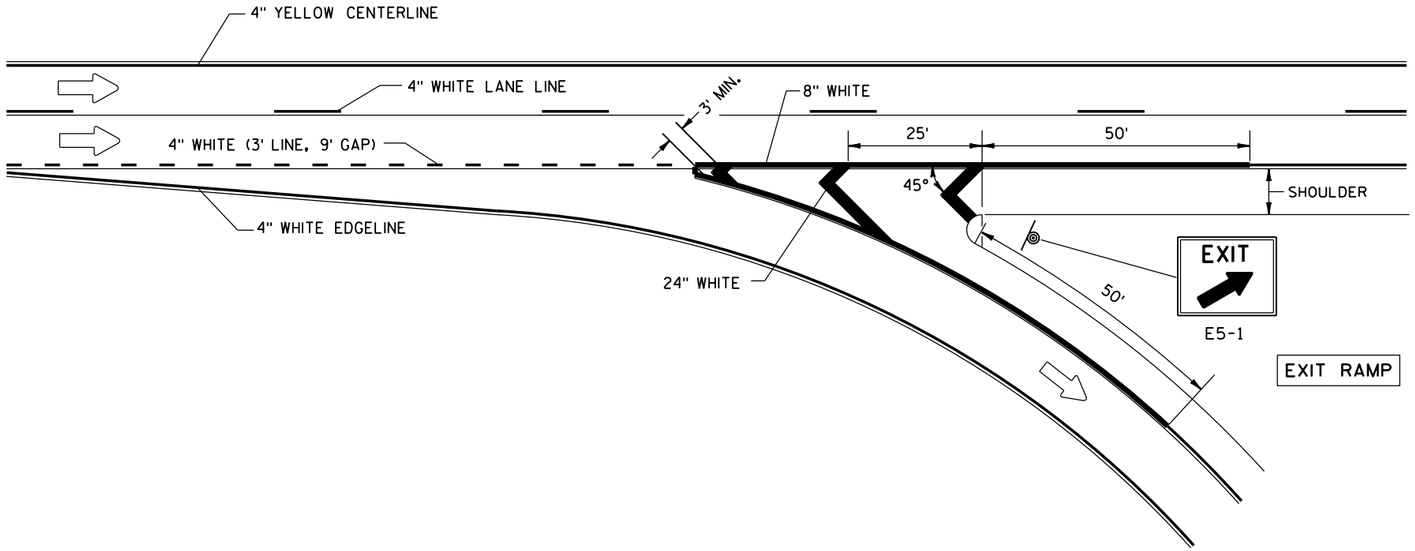
APPROVED
June 2017 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

S.D.D. 15 C 27-2a

6

S.D.D. 15 C 27-2a



PAVEMENT MARKING FOR EXIT RAMP

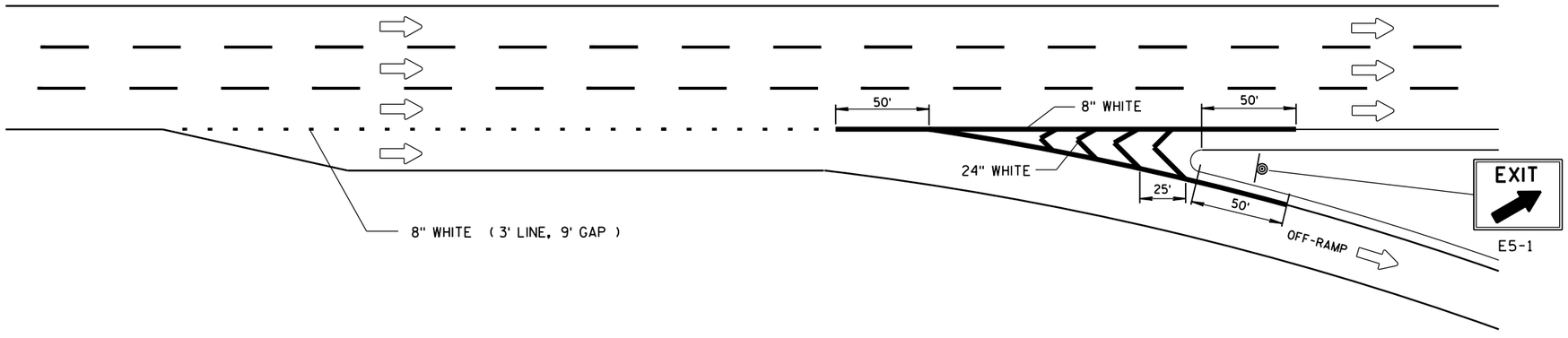
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

DIRECTION OF TRAVEL

SIGN ON PERMANENT SUPPORT



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT-RAMP

6

S.D.D. 15 C 31-3a

PAVEMENT MARKING (RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 31-3a

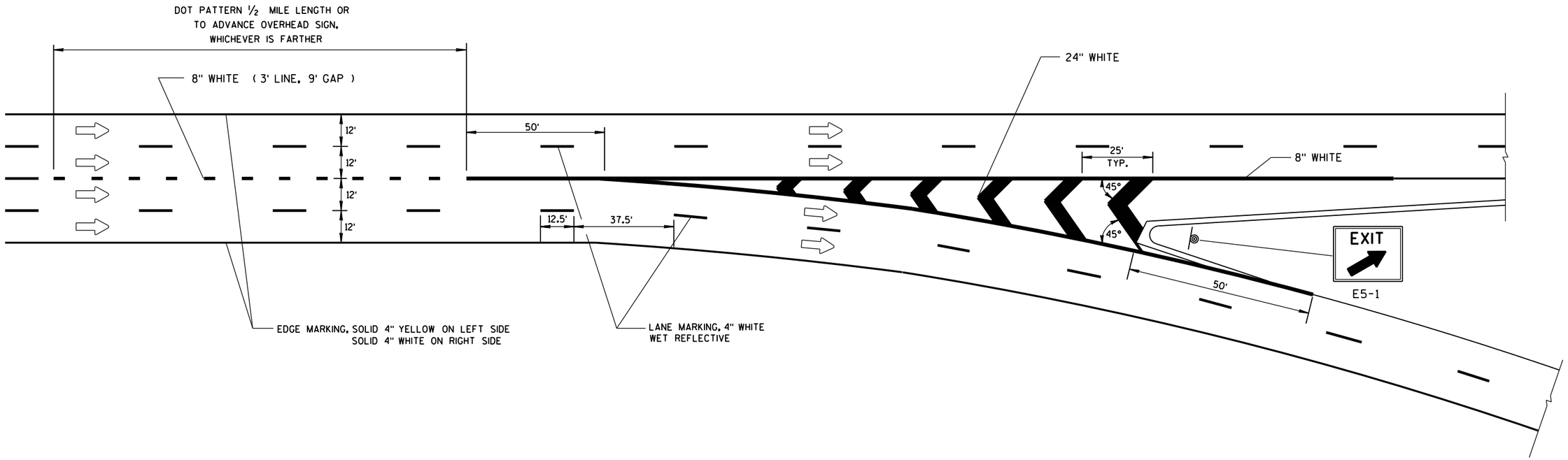
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

DIRECTION OF TRAVEL

SIGN ON PERMANENT SUPPORT



PAVEMENT MARKING
MAJOR SPLIT
FREEWAY TO FREEWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 31-3b

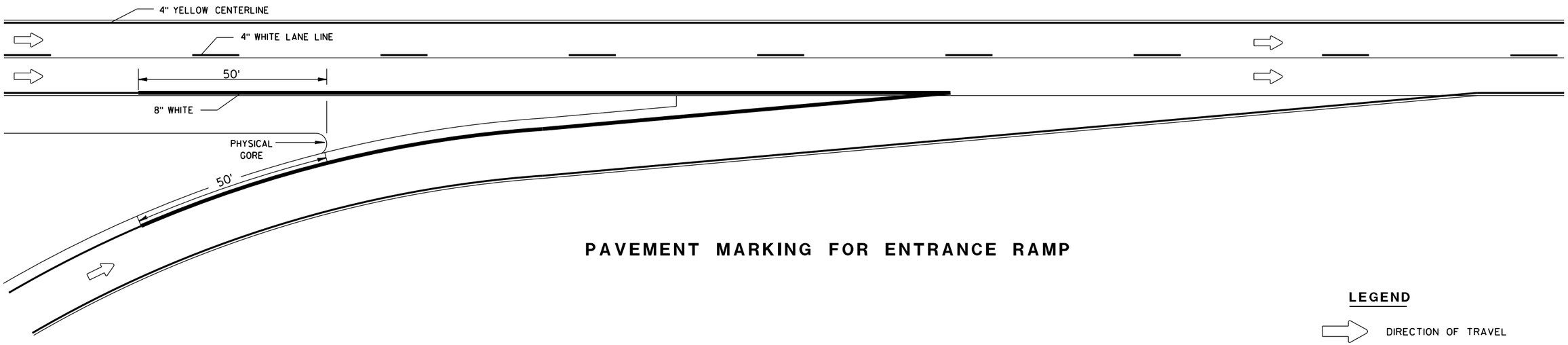
6

S.D.D. 15 C 31-3b

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

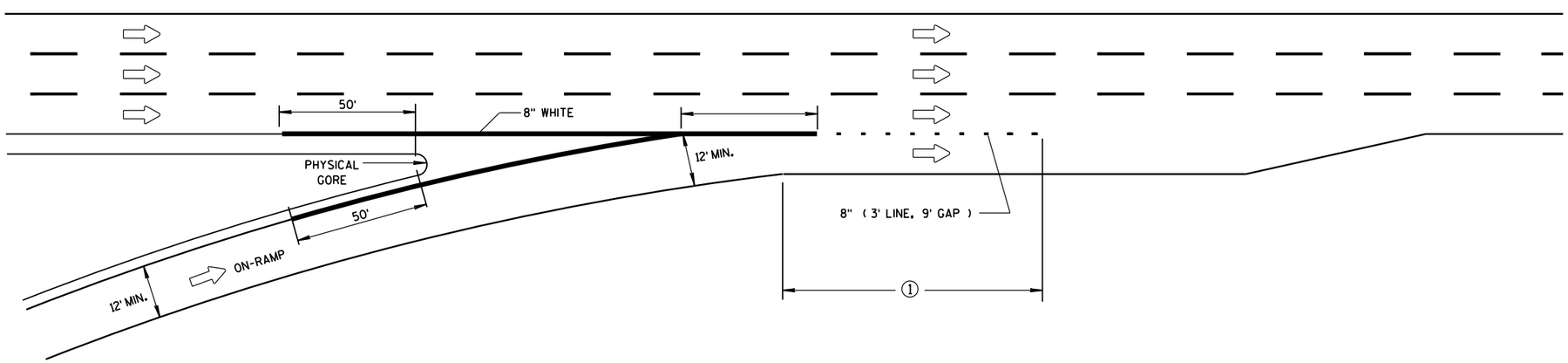
① ½ LENGTH OF FULL WIDTH ACCELERATION LANE.



PAVEMENT MARKING FOR ENTRANCE RAMP

LEGEND

DIRECTION OF TRAVEL



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE-RAMP

PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

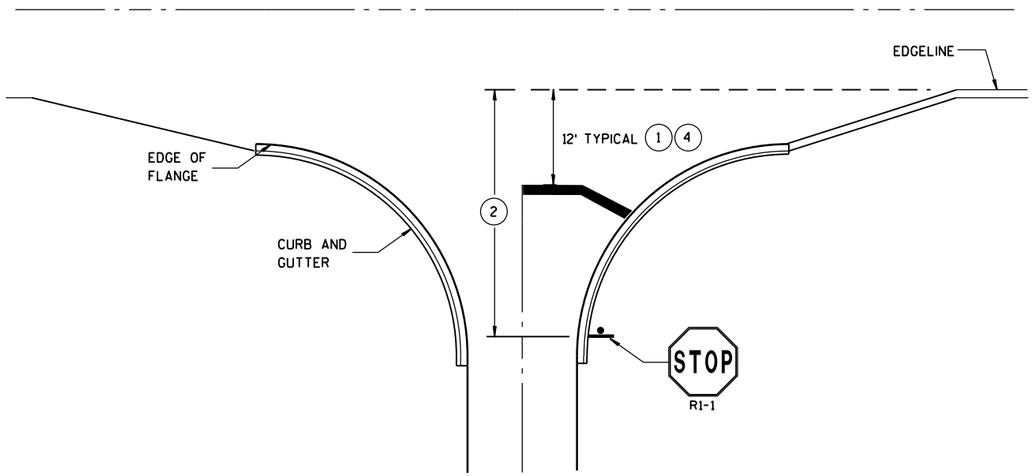
FHWA

6

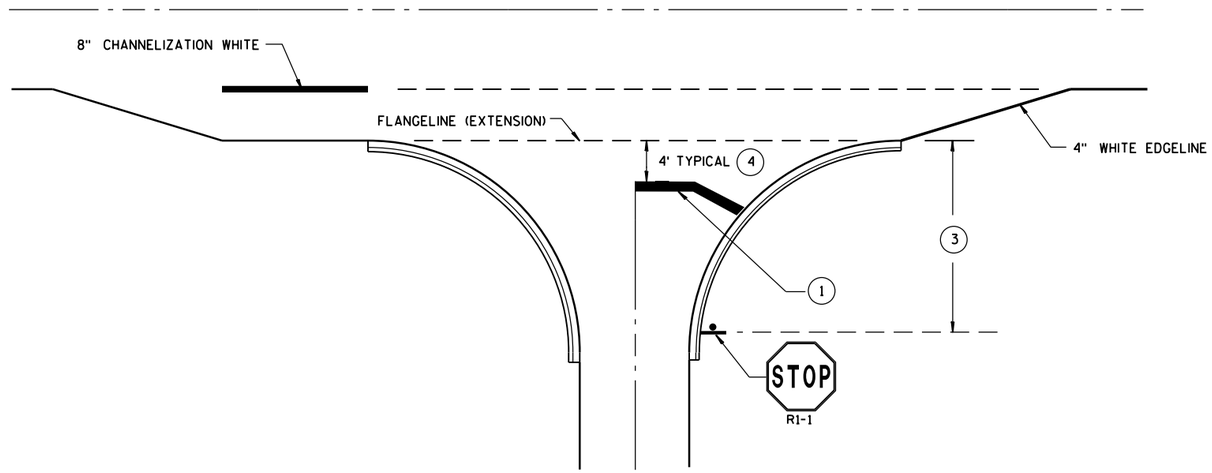
S.D.D. 15 C 31-3c

6

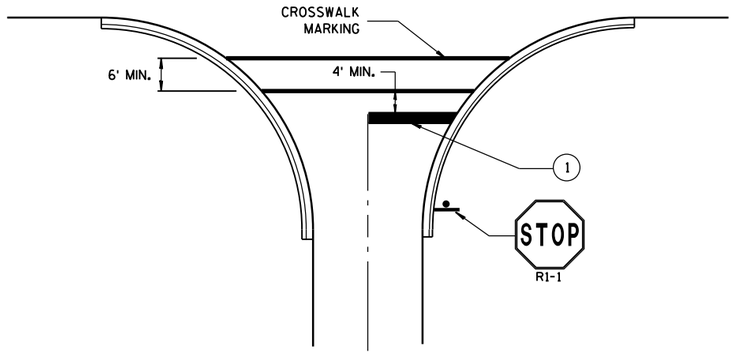
S.D.D. 15 C 31-3c



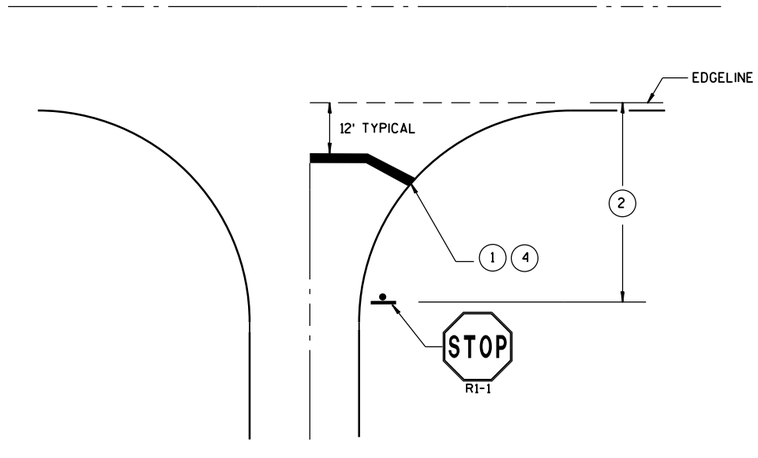
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

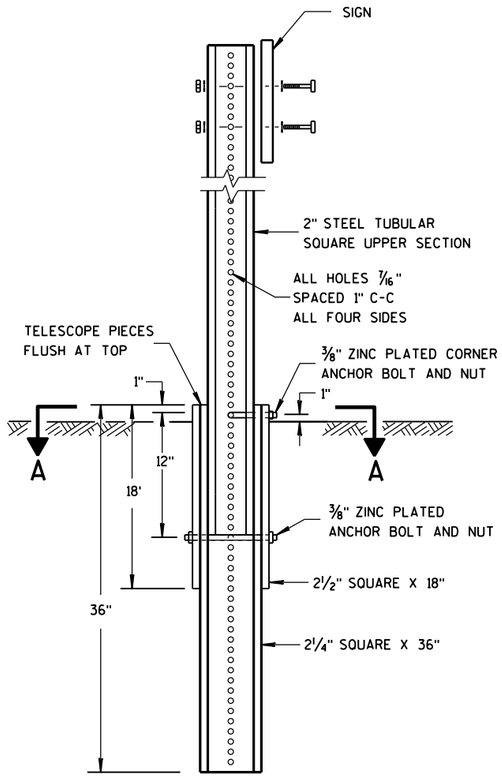
Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR 274 NEER

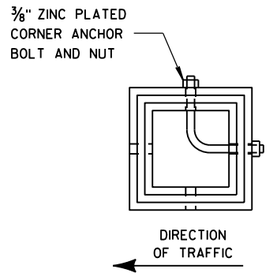
FHWA

6

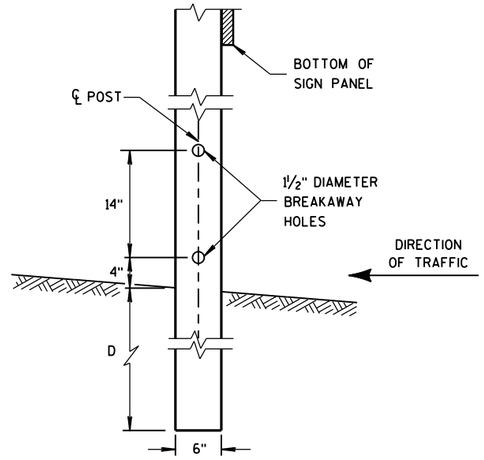
S.D.D. 15 C 33-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



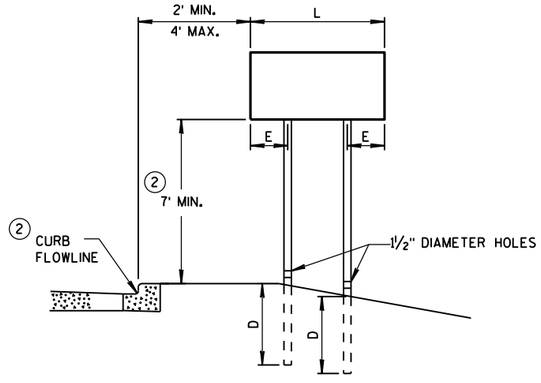
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

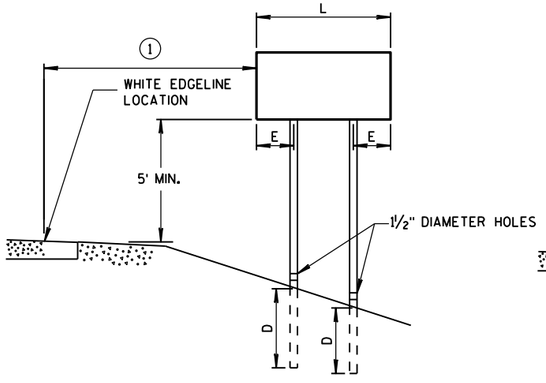
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

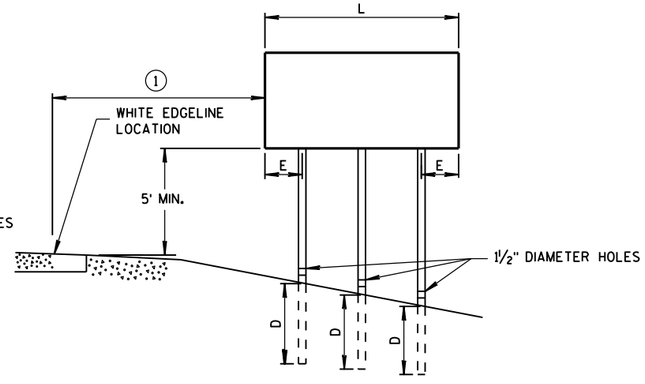
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL 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).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

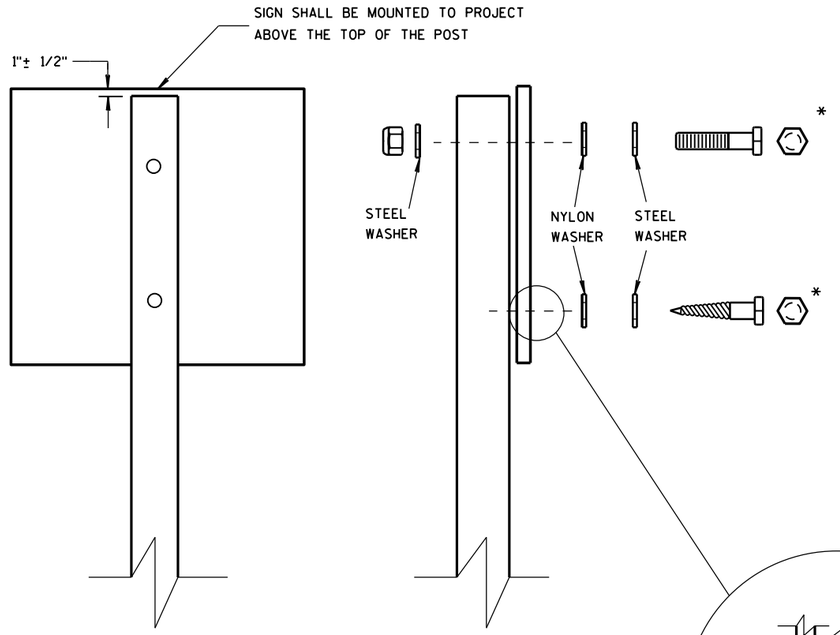
SEE NOTE (3)

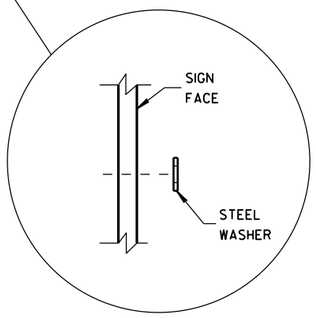
TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a





WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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 FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

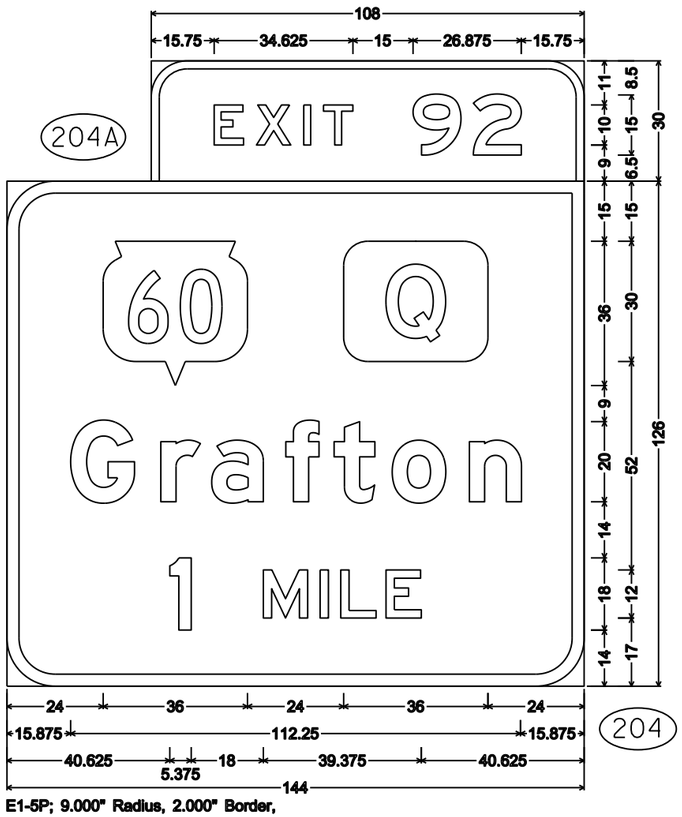
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

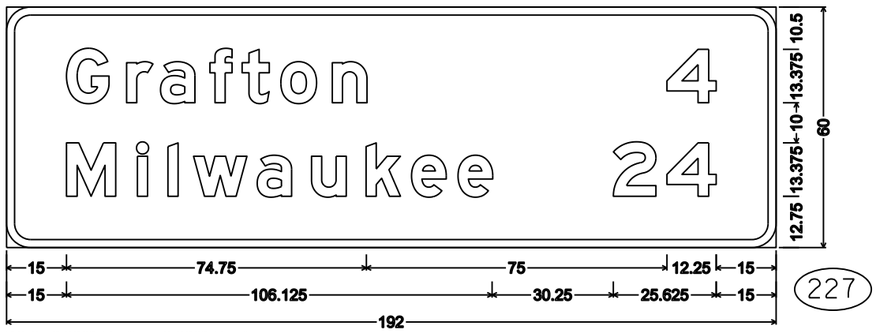
FHWA

NOTES

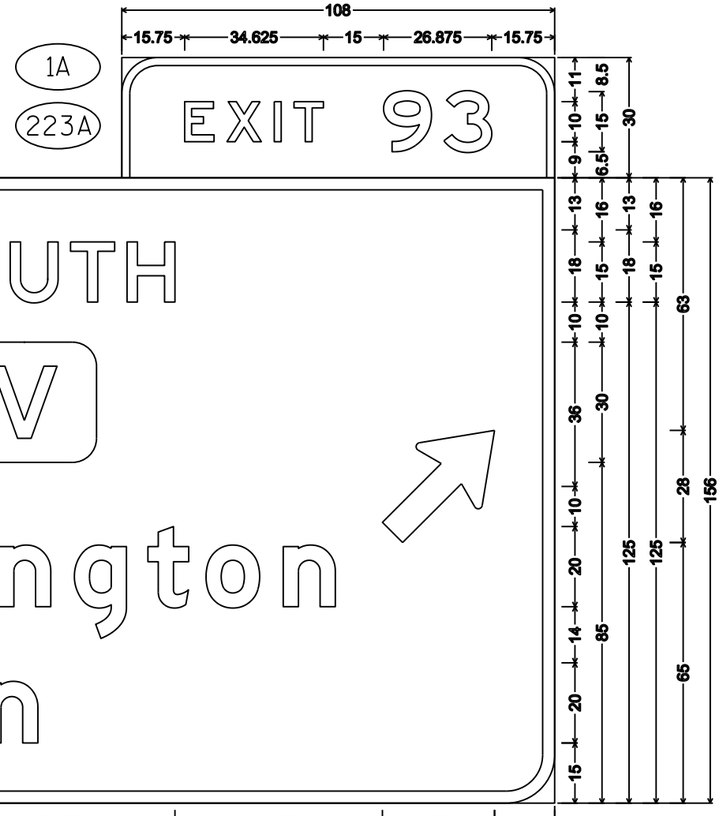
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E



E1-5P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border



D2-2; 6.000" Radius, 2.000" Border



E1-5P; 9.000" Radius, 2.000" Border,
E4-1A; 12.000" Radius, 3.000" Border

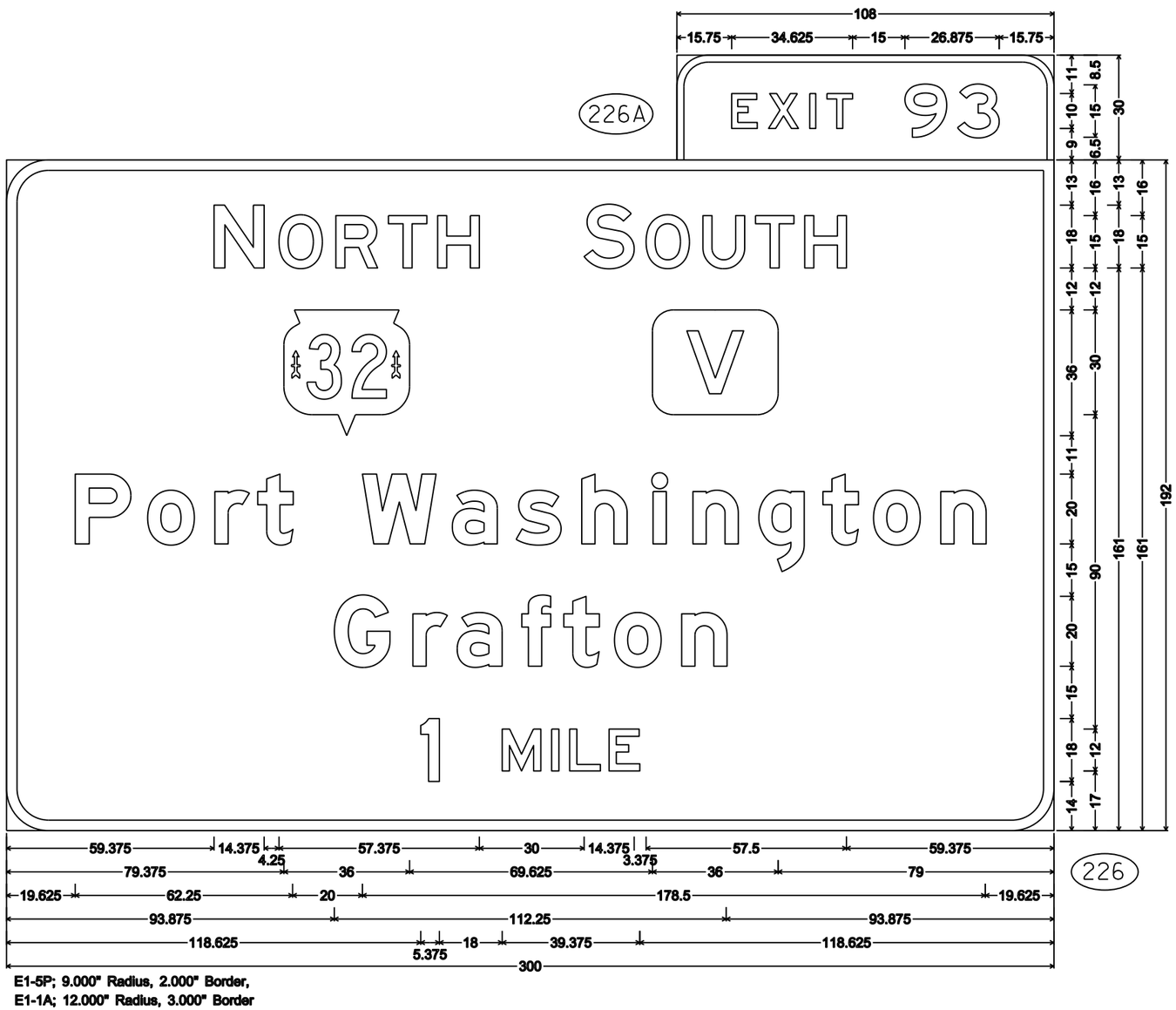
7

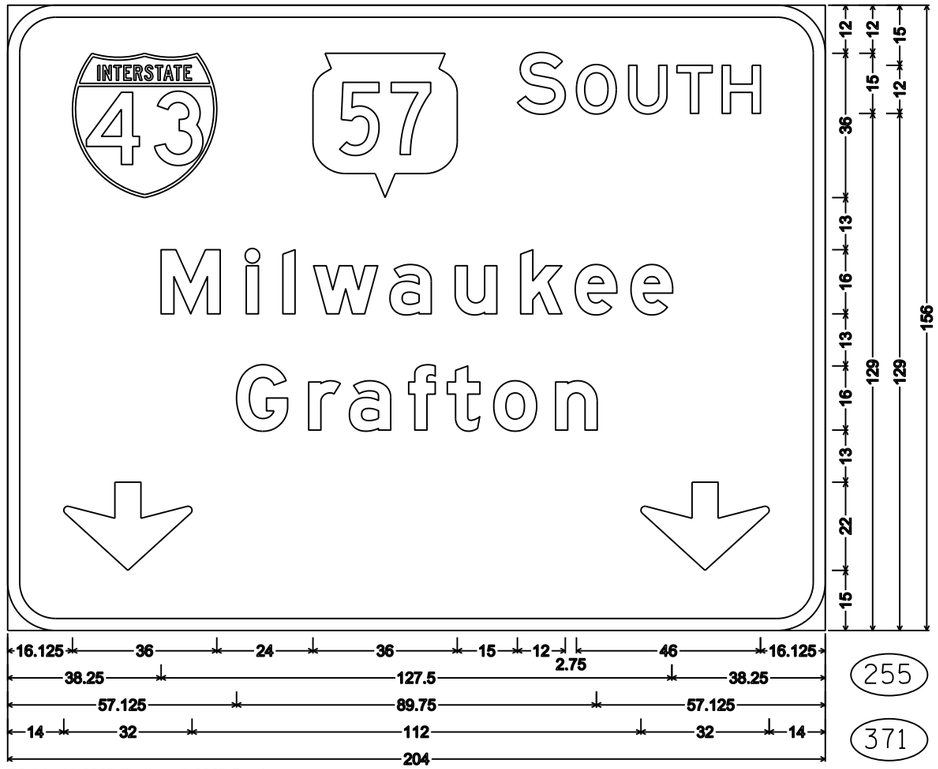
7

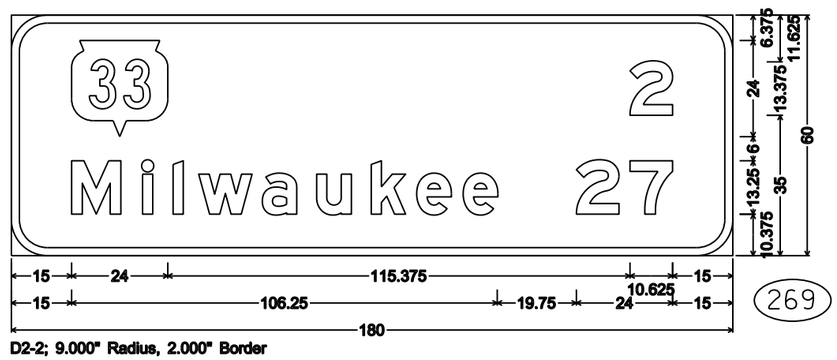
PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET NO: 277	E

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E







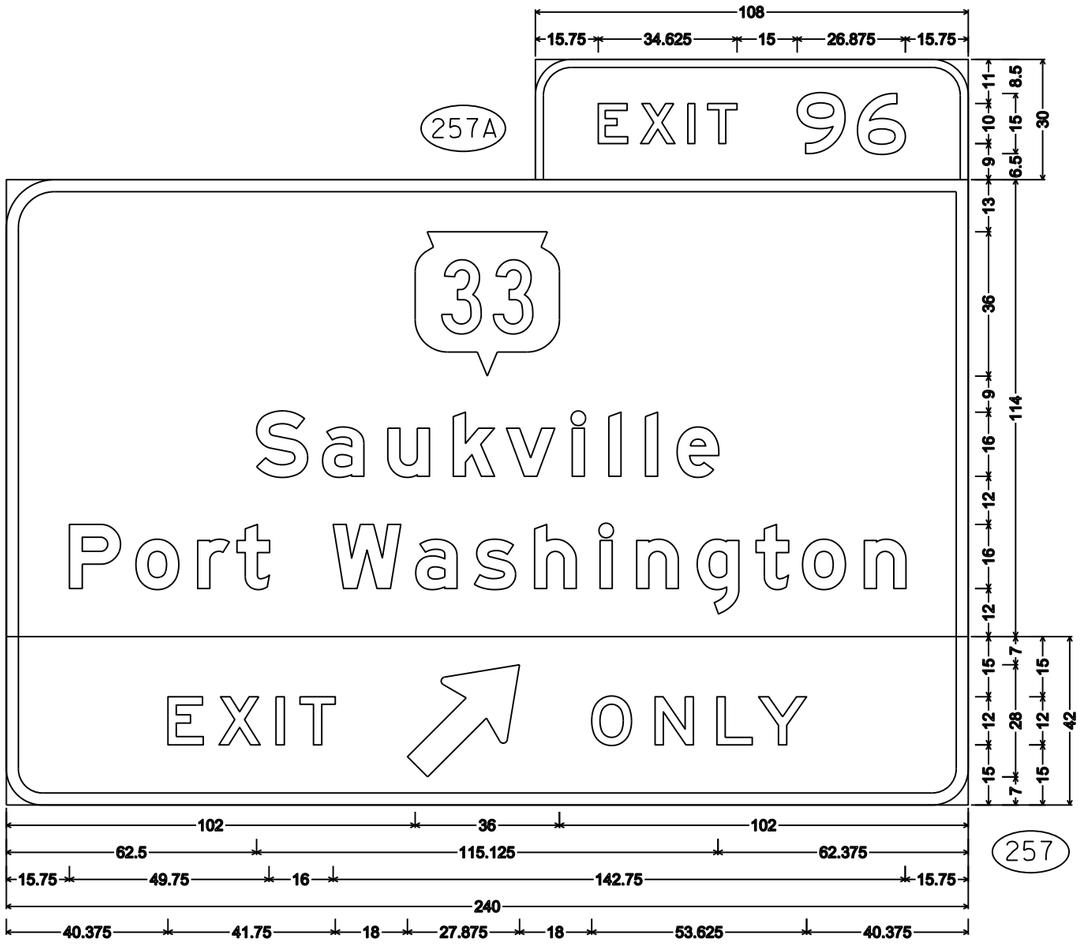
7

7

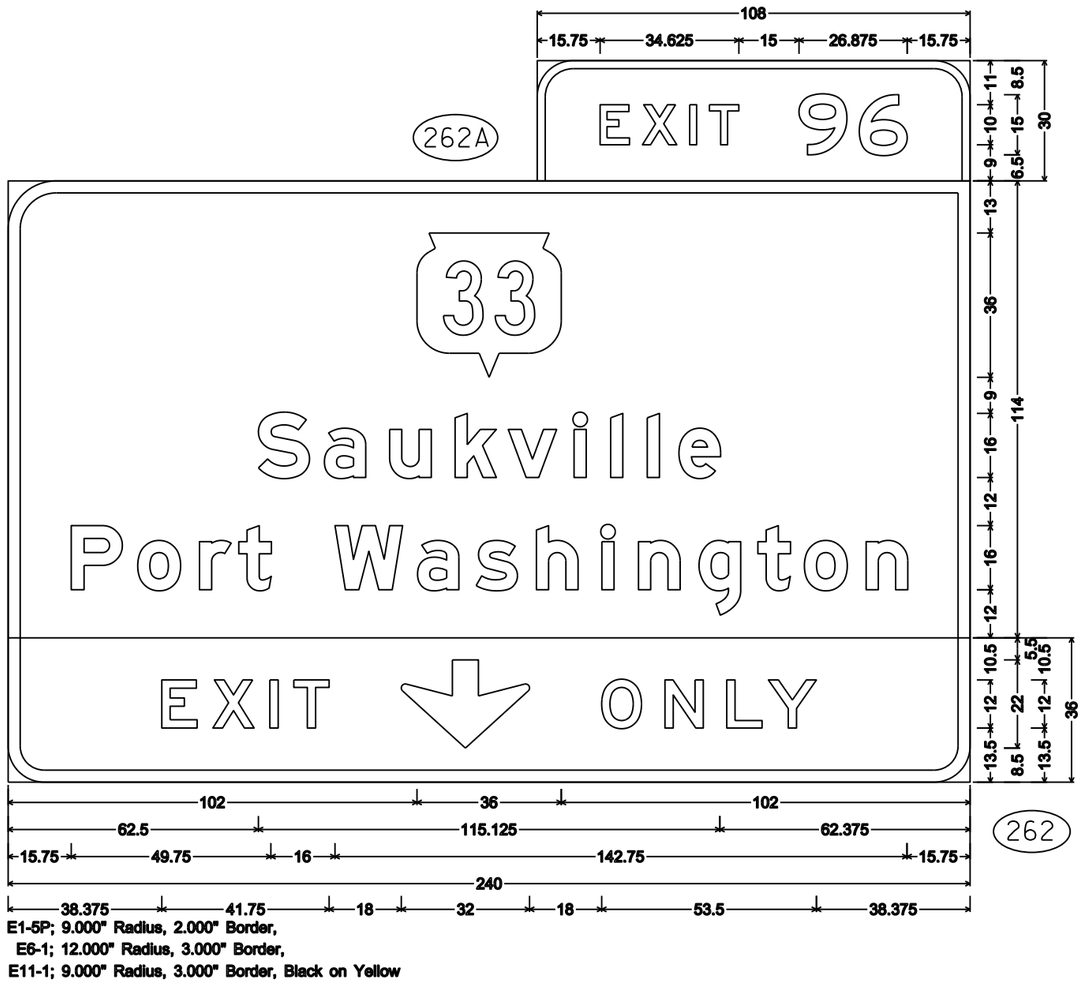
PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET NO: 278	E

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E or as noted
4. Exit Only Planel and Only Plaque are on Yellow Type F Reflective Sheeting with Black Non-Reflective Message
5. Only Plaques base material is .040" aluminum



E1-5P; 9.000" Radius, 2.000" Border,
E6-1; 12.000" Radius, 3.000" Border,
E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow



E1-5P; 9.000" Radius, 2.000" Border,
E6-1; 12.000" Radius, 3.000" Border,
E11-1; 9.000" Radius, 3.000" Border, Black on Yellow

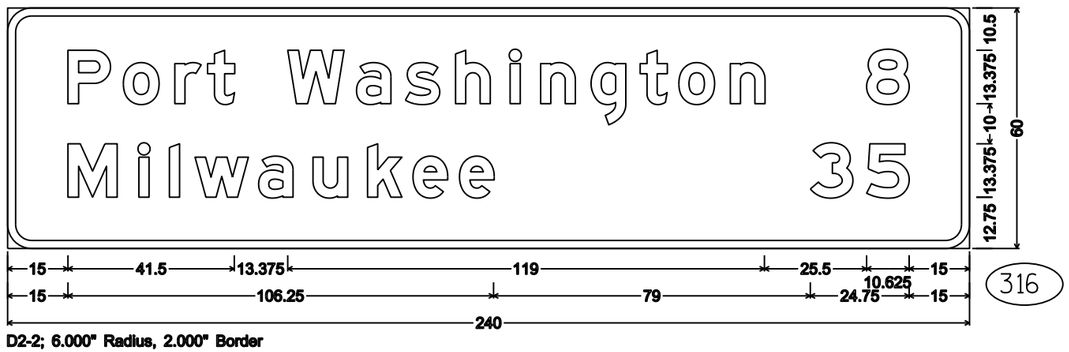
7

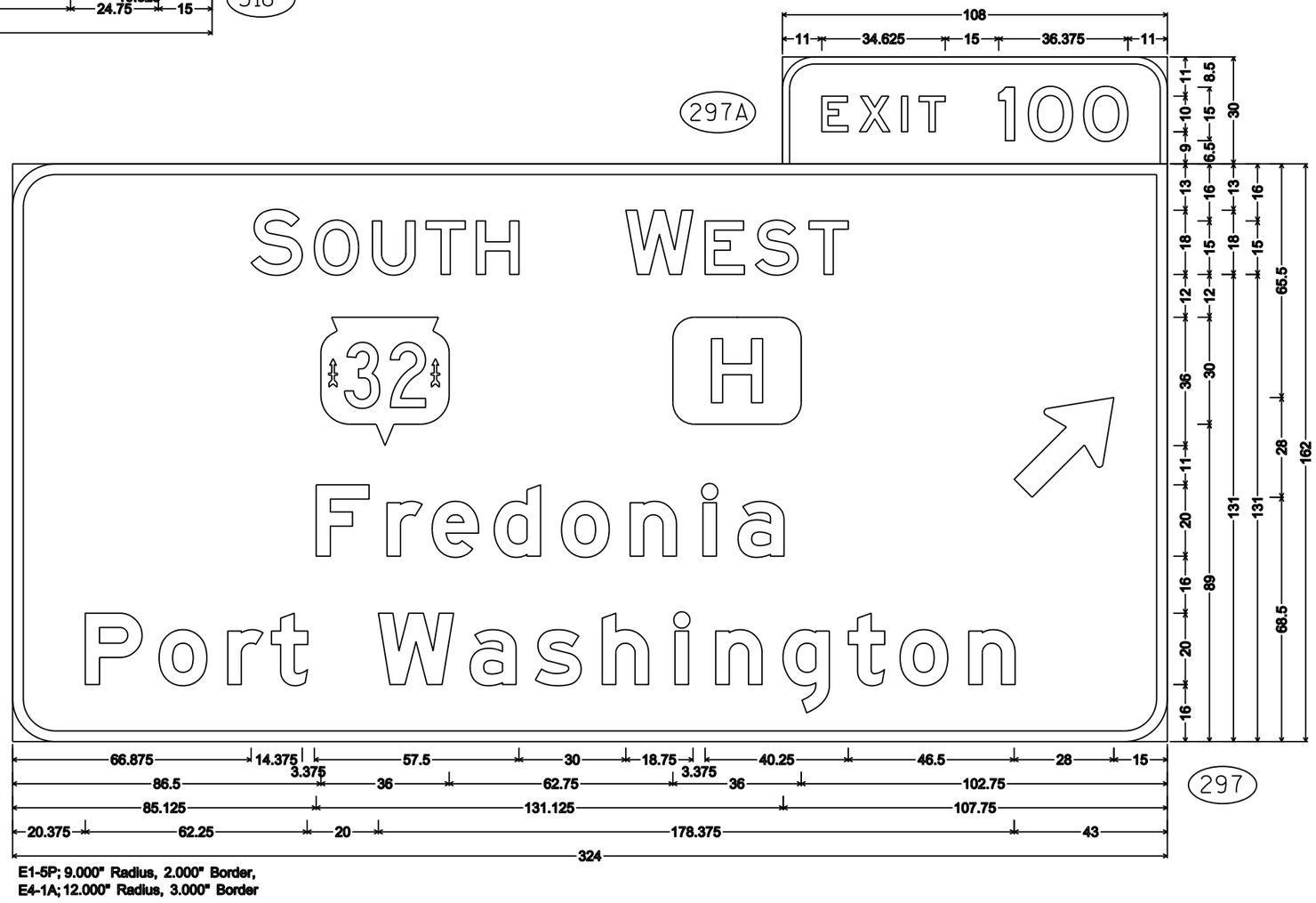
7

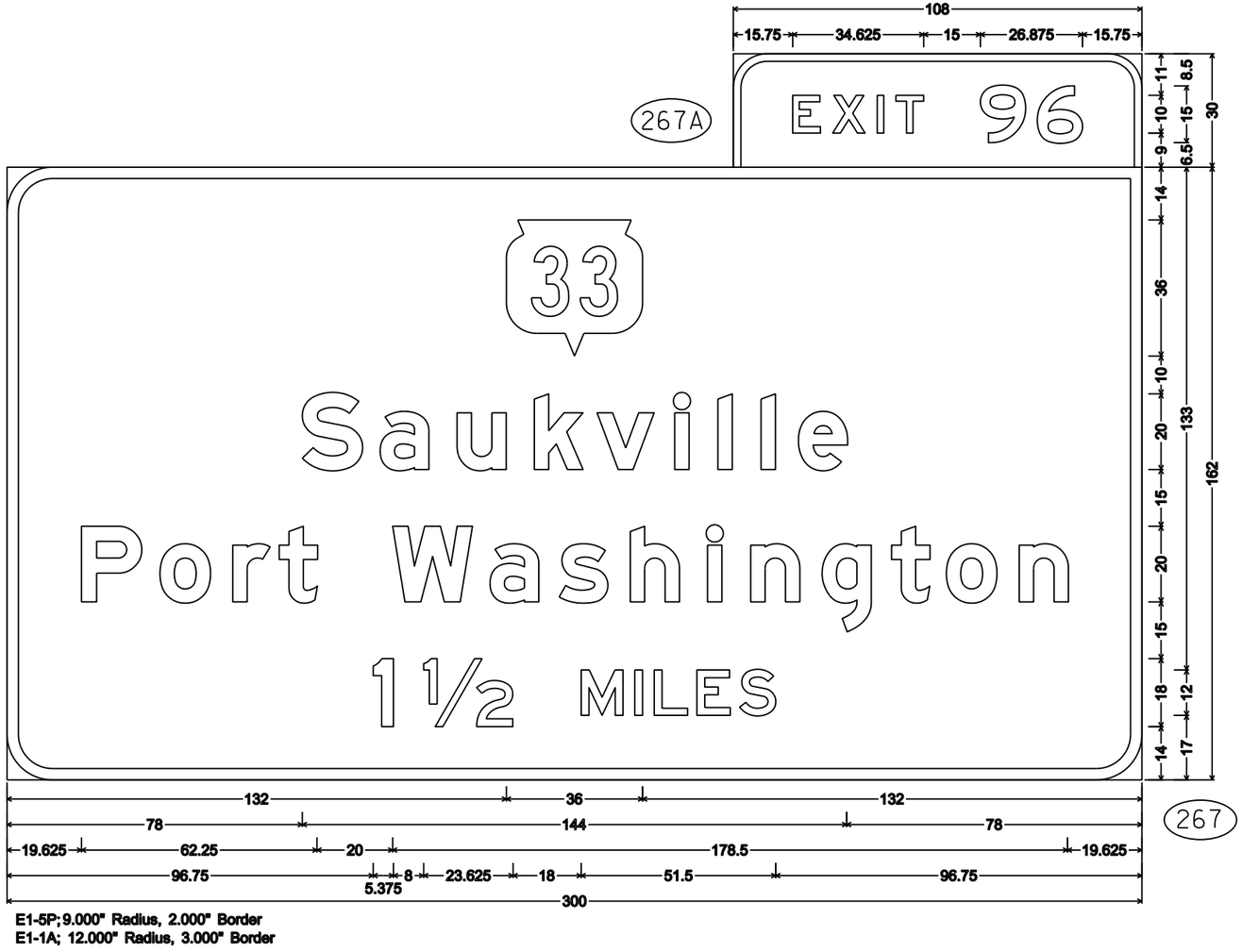
PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET NO: 279	E

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E

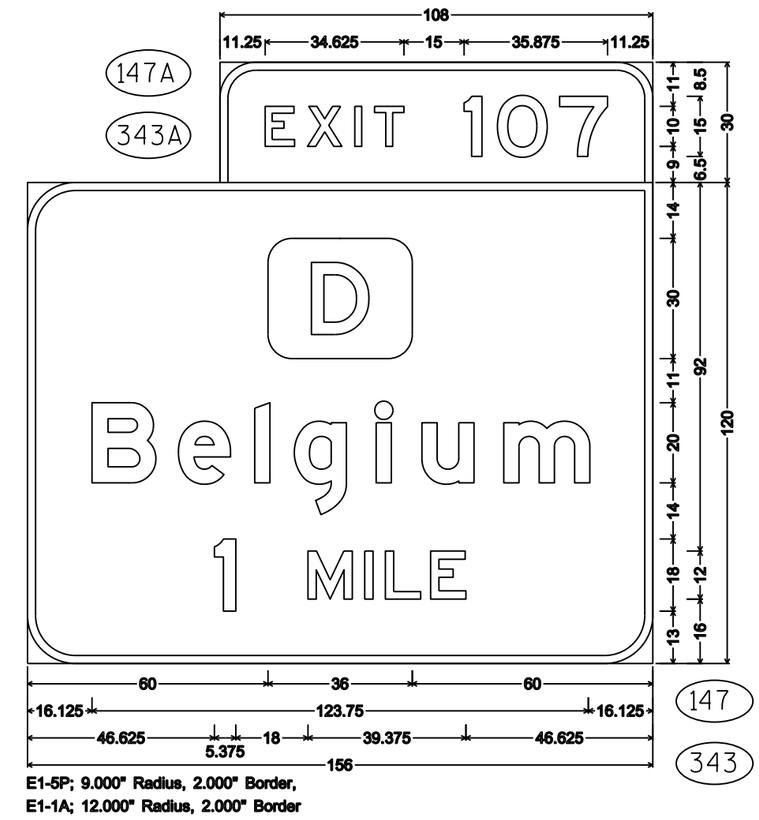






NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E Modified except all CAP words Series E



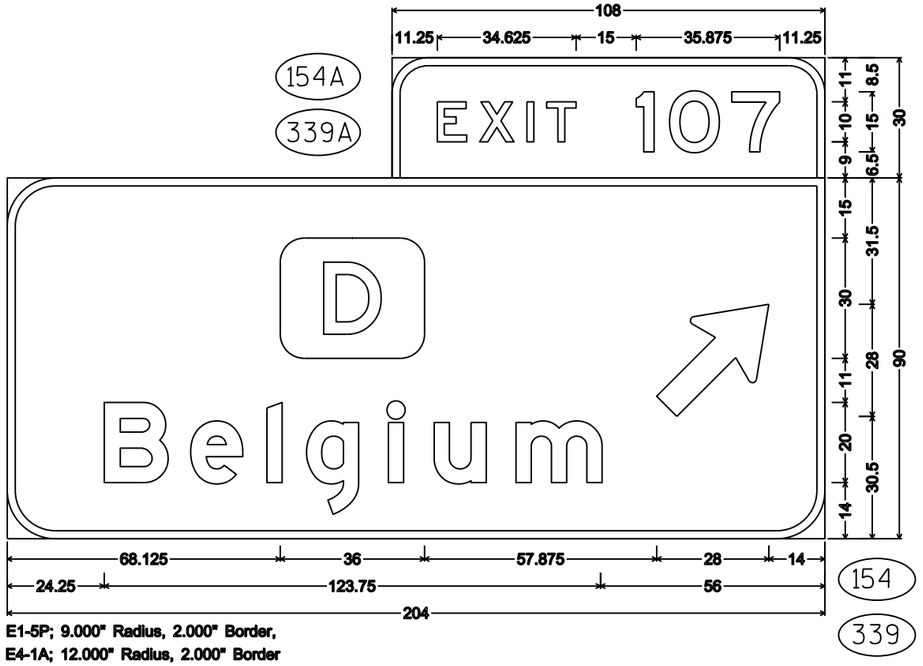
7

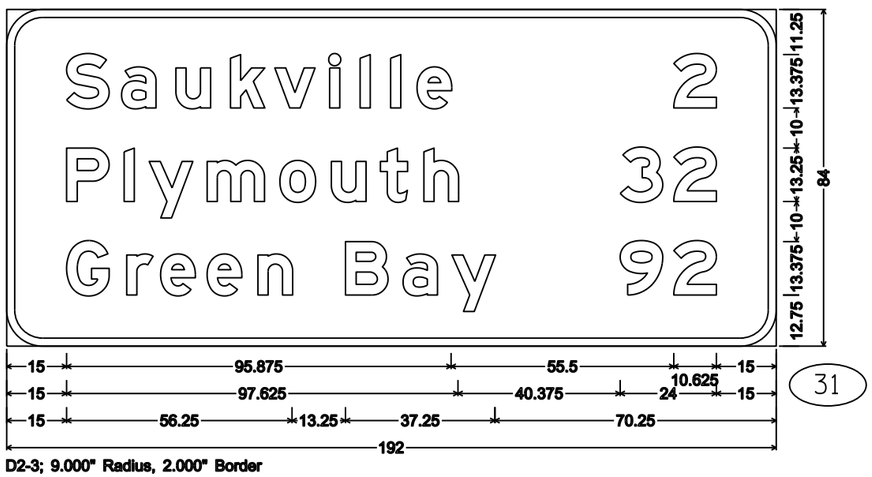
7

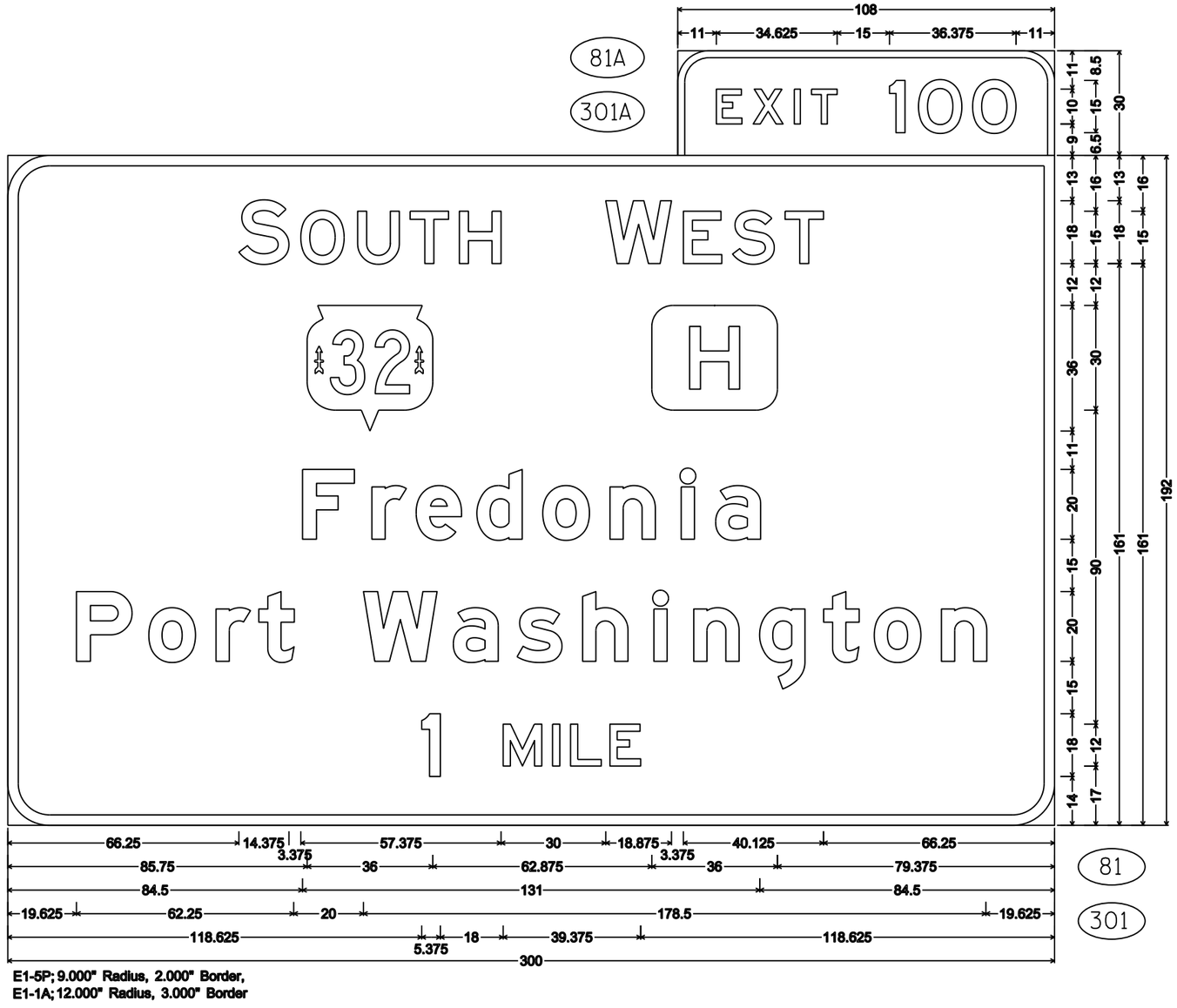
PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET NO: 281	E

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E

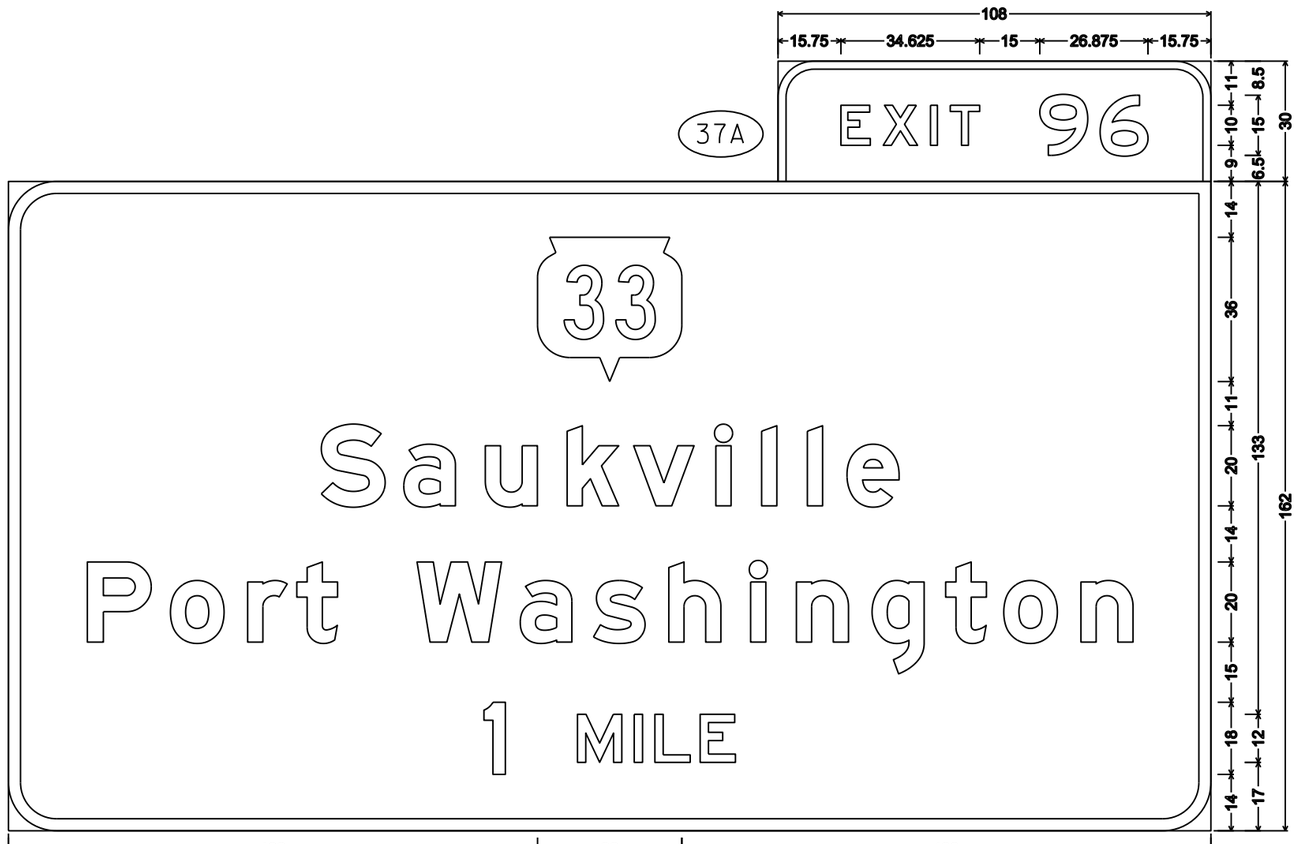




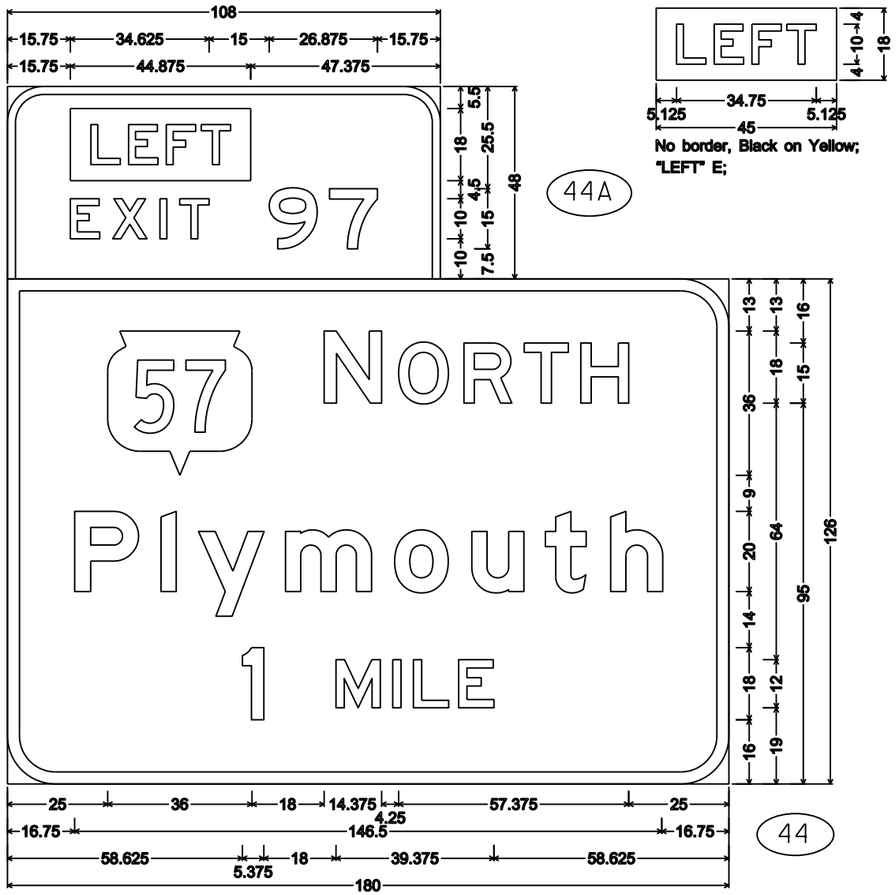


NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. Left Plaque is on Yellow Type F Reflective Sheeting with Black Non-Reflective Message
5. Left Plaque base material is .040" aluminum



E1-5P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border



E1-5BP; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border

No border, Black on Yellow;
"LEFT" E;

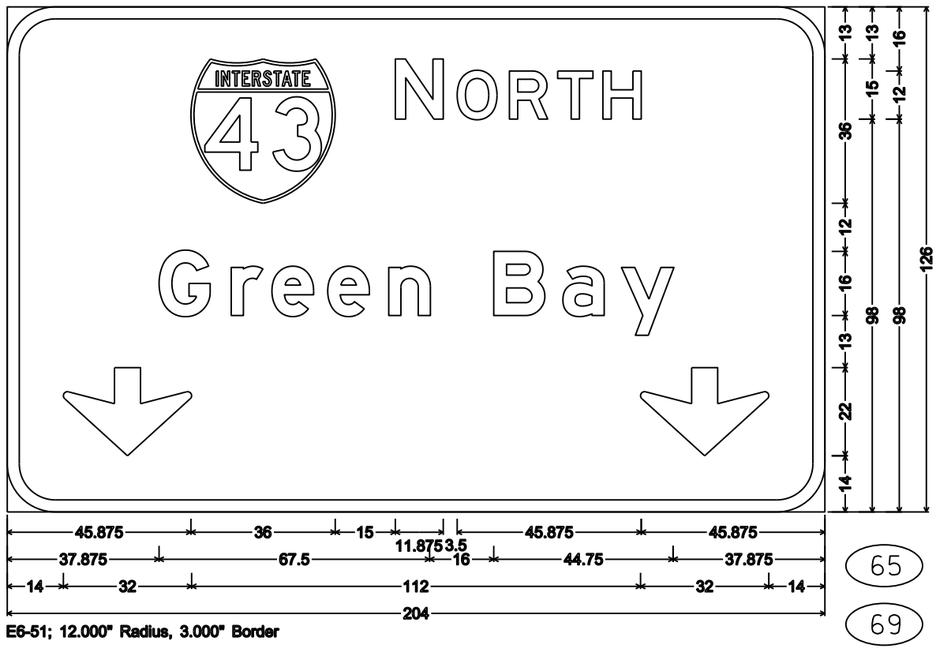
7

7

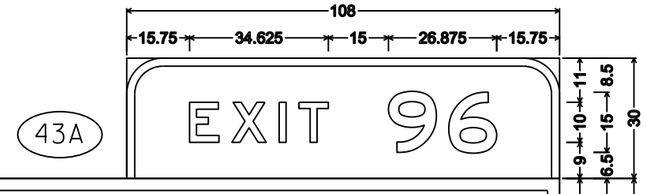
PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET NO: 283	E

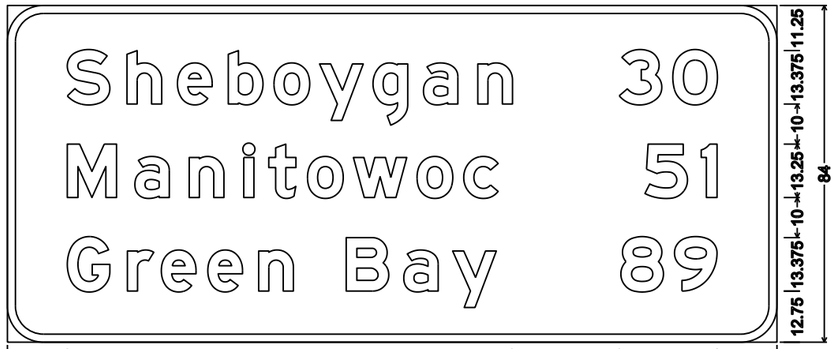
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E



E6-51; 12.000" Radius, 3.000" Border





D2-3; 9.000" Radius, 2.000" Border

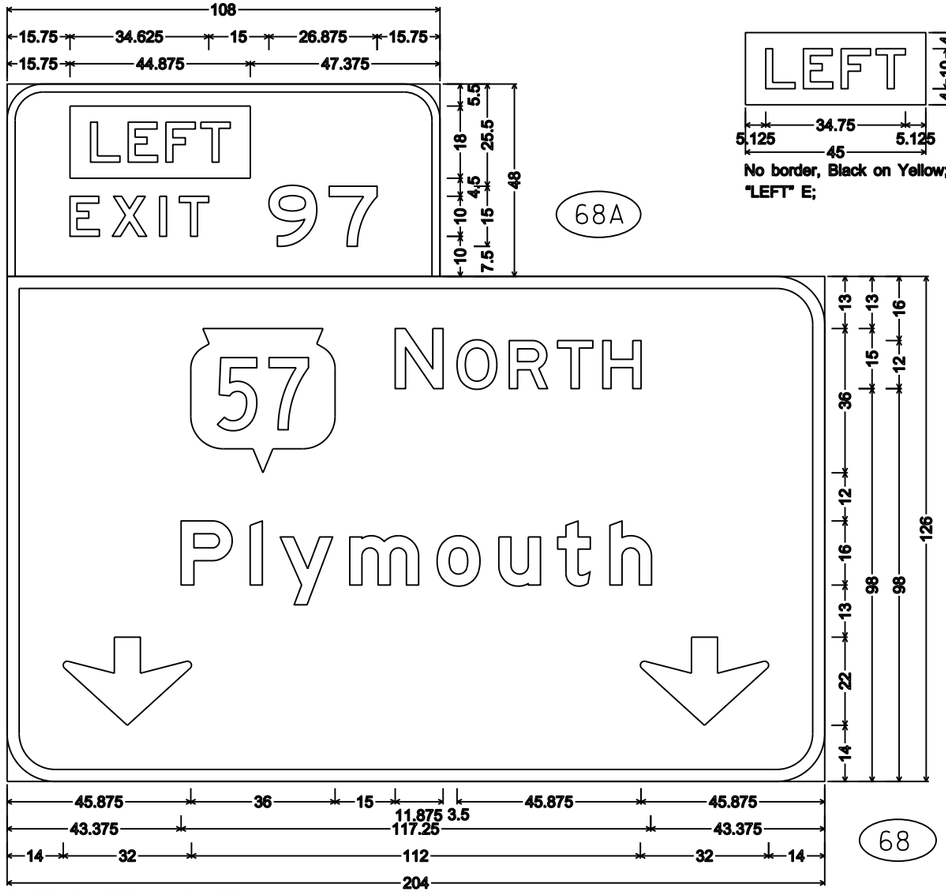


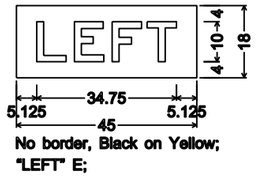
E1-5P; 9.000" Radius, 2.000" Border,
E4-1A; 12.000" Radius, 3.000" Border

7

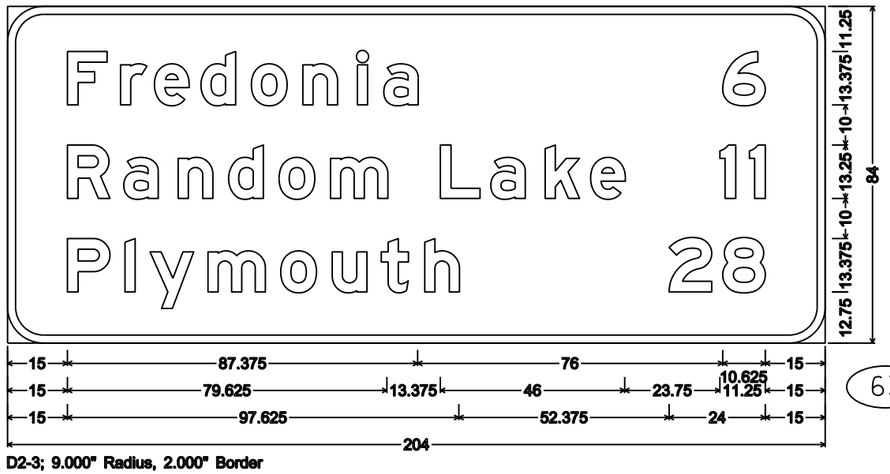
7

PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET NO: 284	E





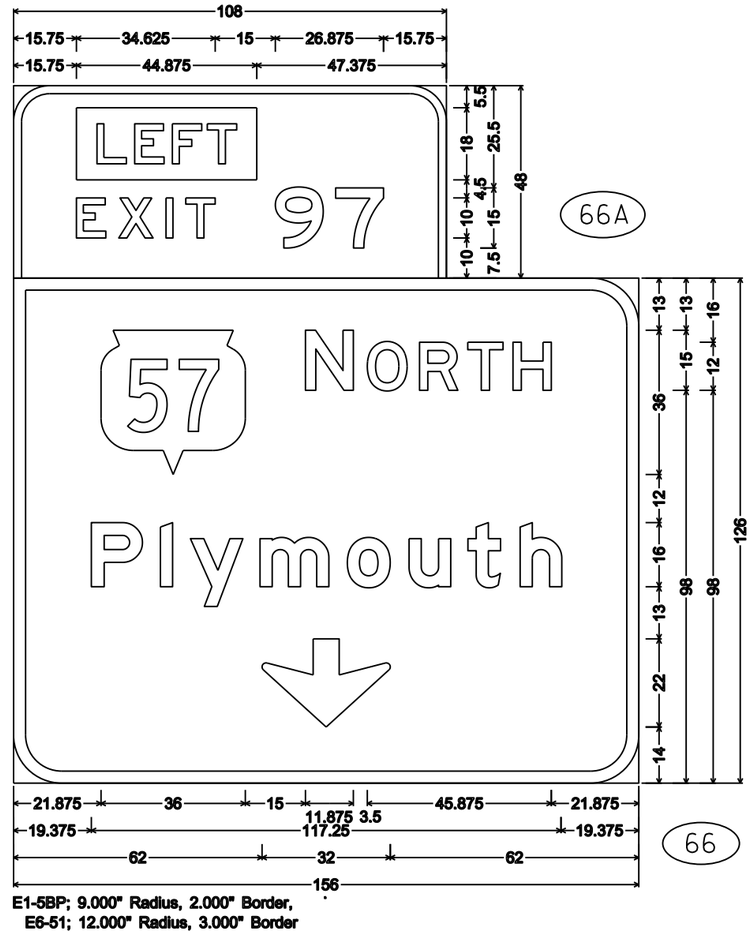
E1-5BP; 9.000" Radius, 2.000" Border,
E6-51; 12.000" Radius, 3.000" Border



D2-3; 9.000" Radius, 2.000" Border

NOTES

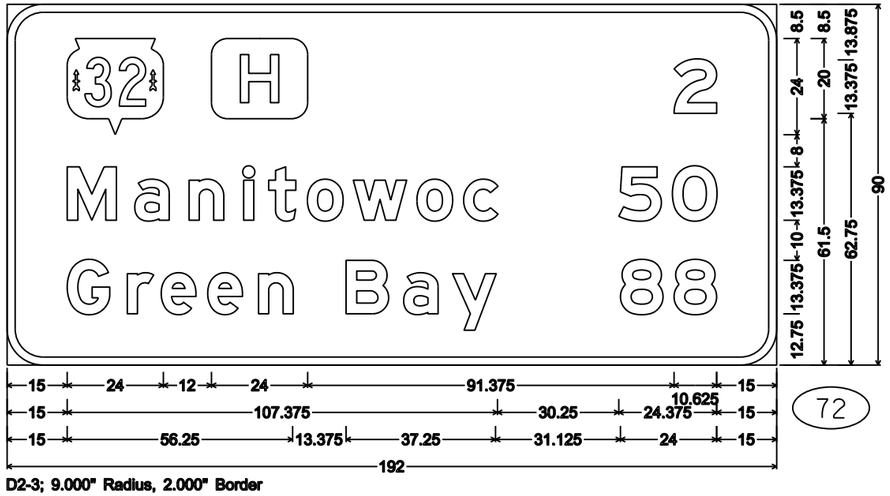
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. Left Plaque is on Yellow Type F Reflective Sheeting
   with Black Non-Reflective Message
5. Left Plaque base material is .040" aluminum



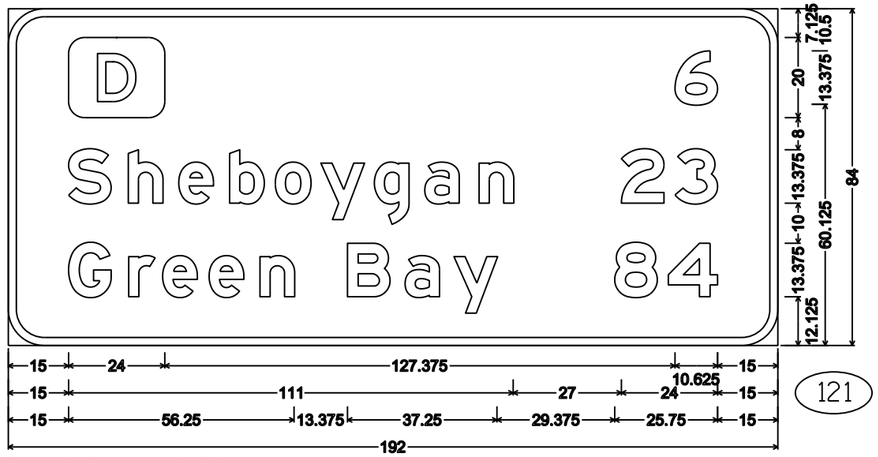
E1-5BP; 9.000" Radius, 2.000" Border,
E6-51; 12.000" Radius, 3.000" Border

NOTES

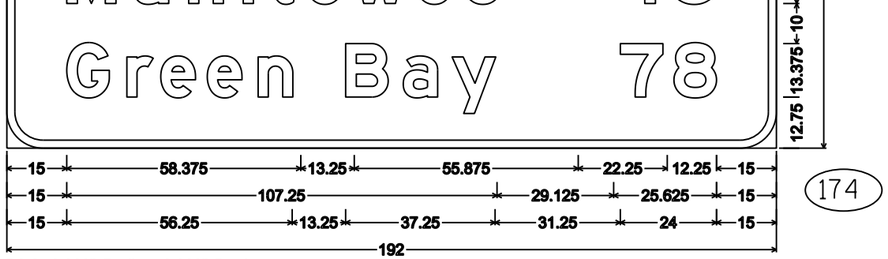
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E



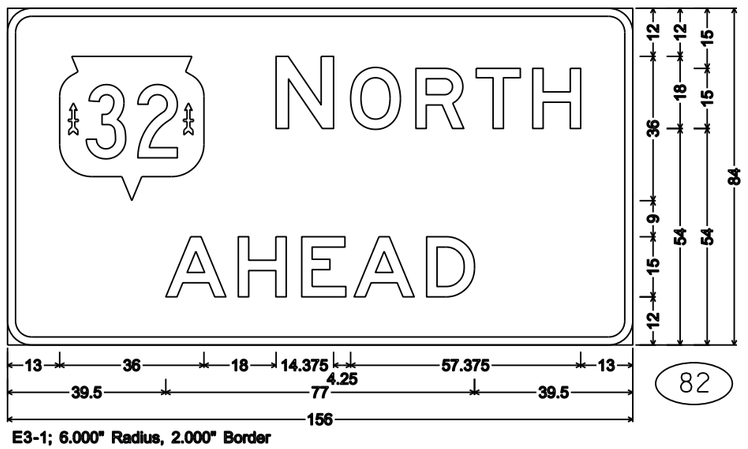
D2-3; 9.000" Radius, 2.000" Border



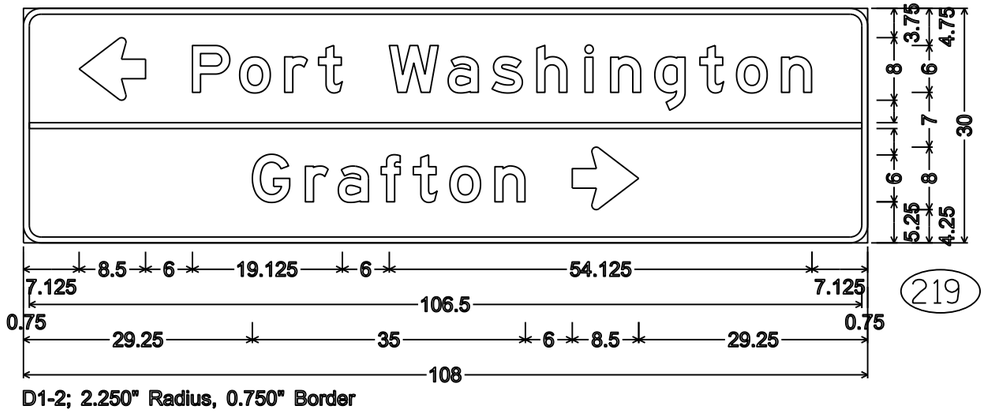
D2-3; 9.000" Radius, 2.000" Border



D2-3; 9.000" Radius, 2.000" Border

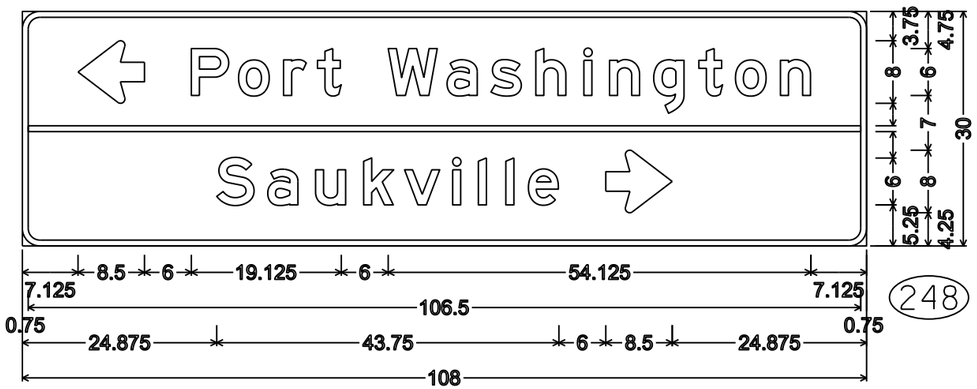


E3-1; 6.000" Radius, 2.000" Border



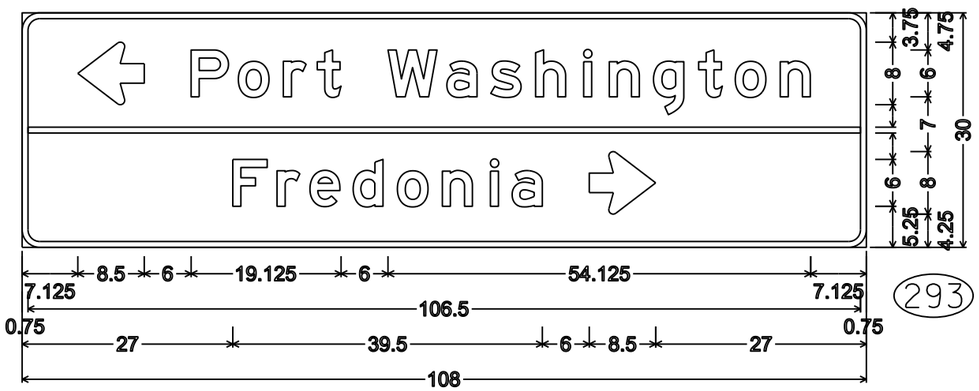
219

D1-2; 2.250" Radius, 0.750" Border



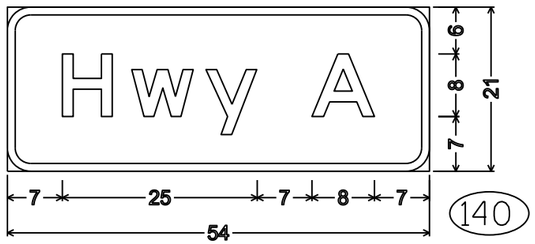
248

D1-2; 2.250" Radius, 0.750" Border



293

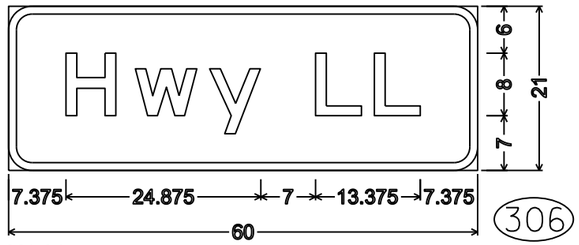
D1-2; 2.250" Radius, 0.750" Border



140

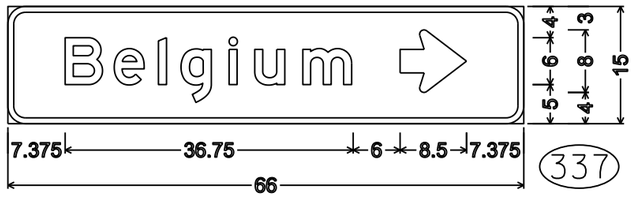
312

M1-94;
3.000" Radius, 1.000" Border



306

M1-94;
3.000" Radius, 1.000" Border



337

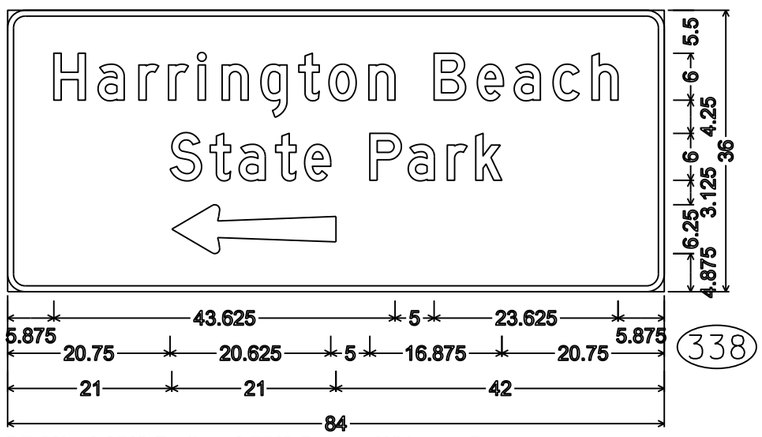
D1-1; 2.250" Radius, 0.750" Border



141

313

M1-94; 3.000" Radius, 1.000" Border



338

D7-53L; 2.250" Radius, 0.750" Border, White on Brown;
"Harrington" D; "Beach" D; "State" D; "Park" D

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted

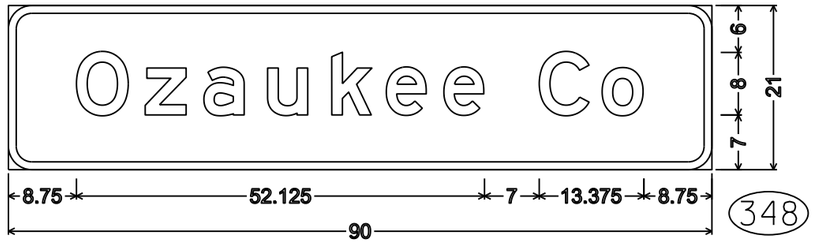
7

7

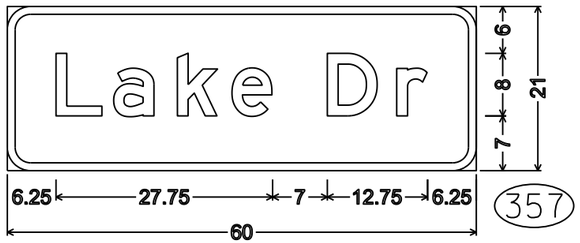
PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET NO: 287	E

NOTES

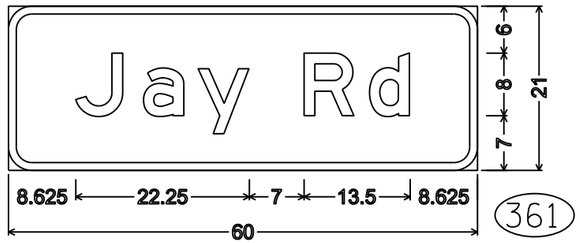
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



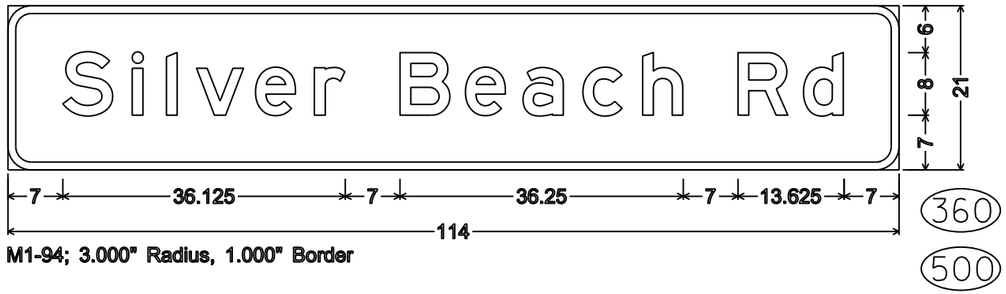
I2-2; 3.000" Radius, 1.000" Border



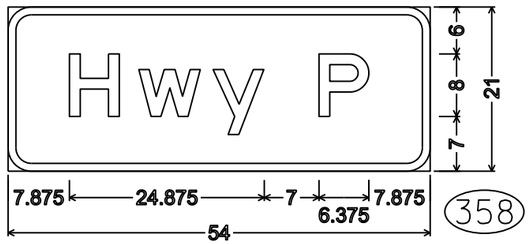
M1-94;
3.000" Radius, 1.000" Border



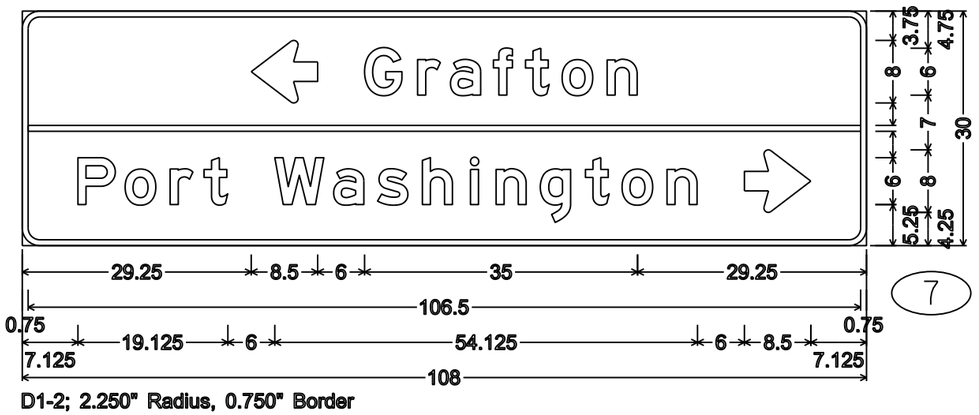
M1-94;
3.000" Radius, 1.000" Border



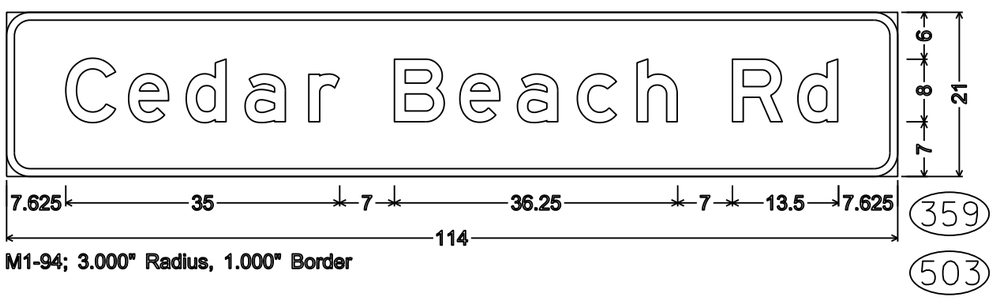
M1-94; 3.000" Radius, 1.000" Border



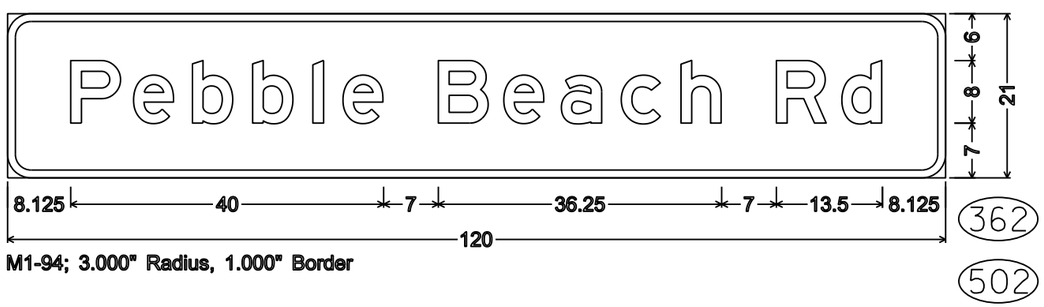
M1-94;
3.000" Radius, 1.000" Border



D1-2; 2.250" Radius, 0.750" Border



M1-94; 3.000" Radius, 1.000" Border



M1-94; 3.000" Radius, 1.000" Border

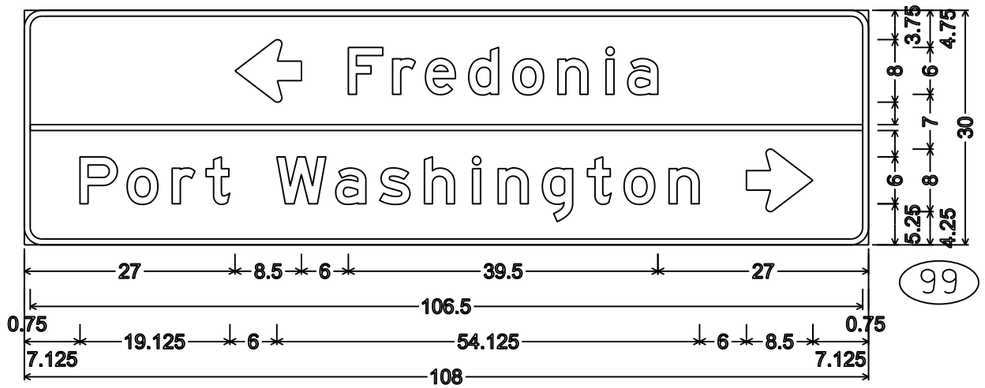
7

7

PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET NO: 288	E

NOTES

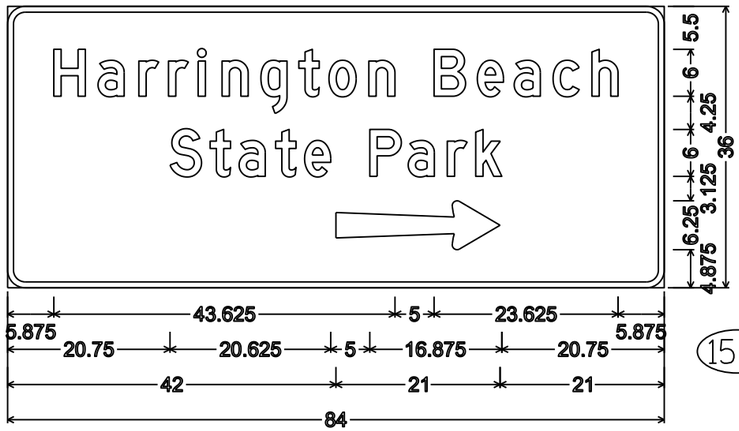
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



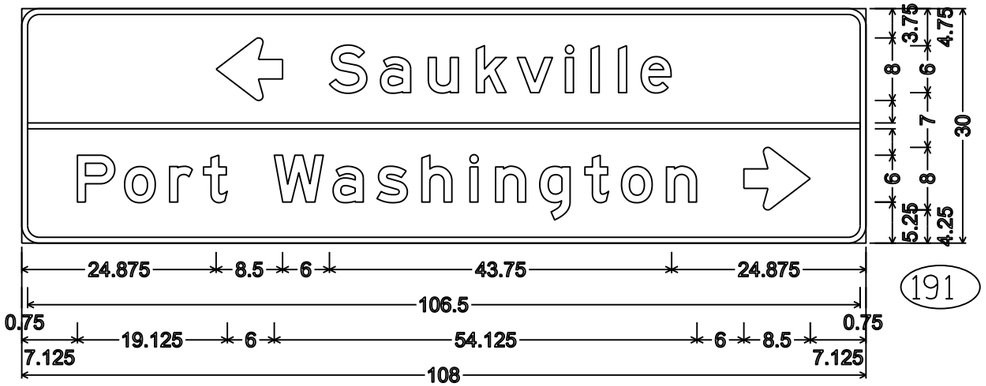
D1-2; 2.250" Radius, 0.750" Border



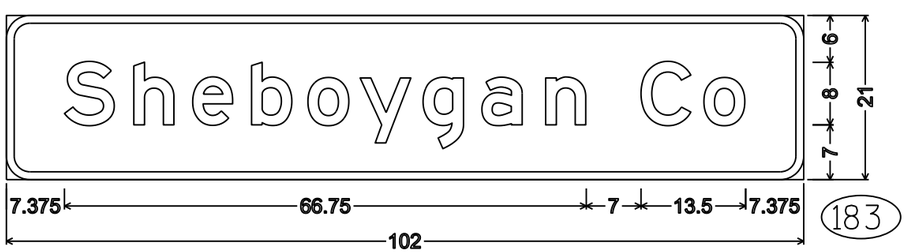
D1-1; 2.250" Radius, 0.750" Border



D7-53R; 2.250" Radius, 0.750" Border, White on Brown;
"Harrington" D; "Beach" D; "State" D; "Park" D



D1-2; 2.250" Radius, 0.750" Border



I2-2; 3.000" Radius, 1.000" Border

7

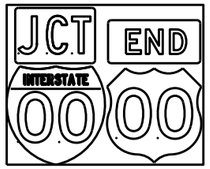
7

PROJECT NO: 1229-05-70	HWY: IH 43	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET NO: 289	E

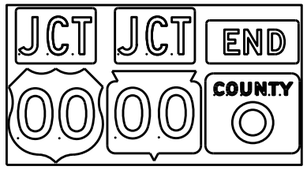
TYPICAL ASSEMBLIES



J1-1



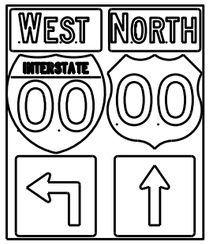
J1-2



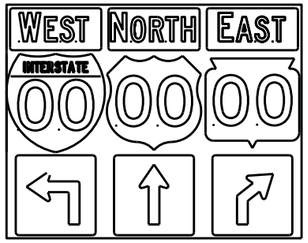
J1-3



J2-1



J2-2

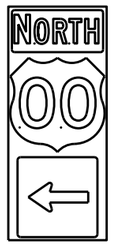


J2-3

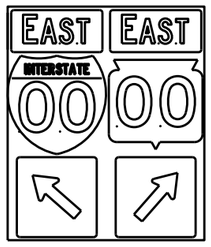


JV

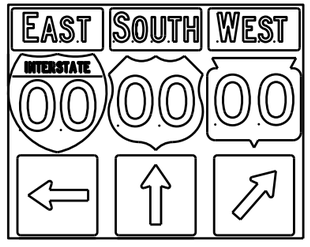
(Typical Vertical J-Assembly
See Note 10 and 11)



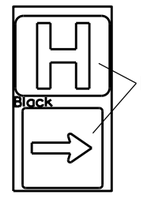
J3-1



J3-2



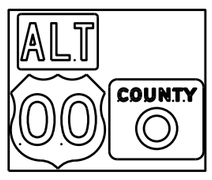
J3-3



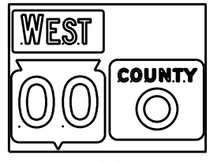
JH-1



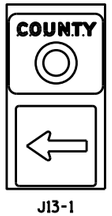
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

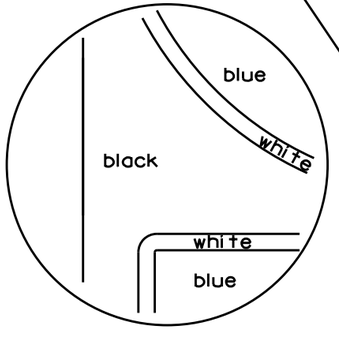


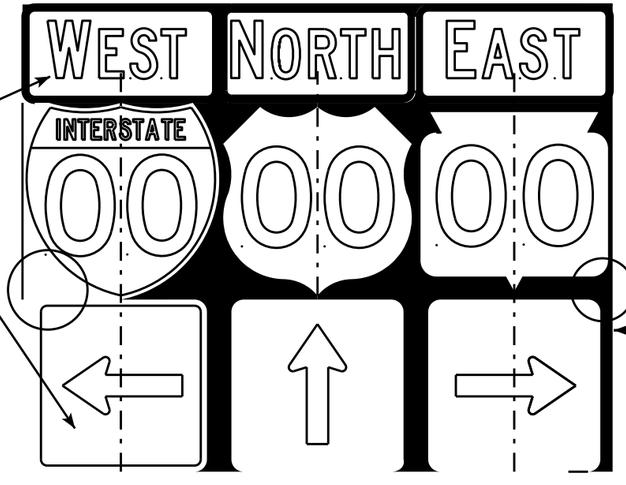
J23-1

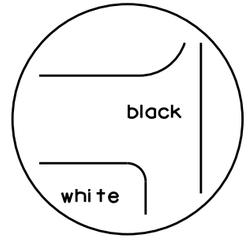


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

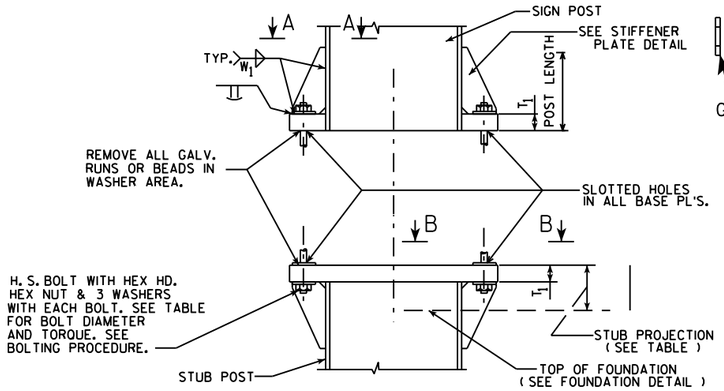
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

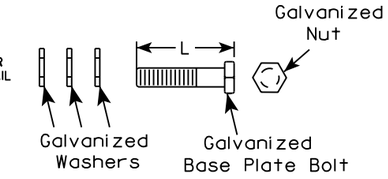
PROJECT NO: SHEET NO: E

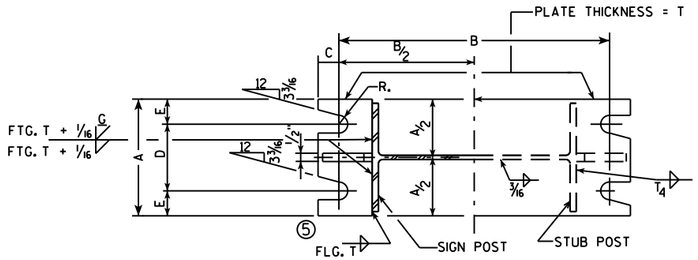
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

WISDOT/CADDS SHEET 42



SIGN POST AND STUB POST ELEVATION





SECTION A-A SECTION B-B

DESIGN DATA

WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.

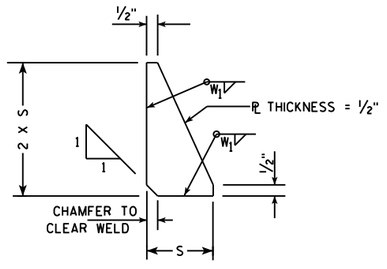
GROUP LOADS	PERCENT OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD & WIND	140
3. DEAD, ICE & 1/2 WIND[4]	140

[4] 25 P.S.F. MIN.

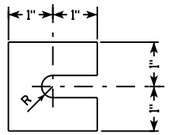
ALLOWABLE SOIL PRESSURE = 1 1/2 T / SQ. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50, GALVANIZED IN ACCORDANCE WITH ASTM A123.
⑨ THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
FURNISH STEEL BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH SECTION 635 OF THE STANDARD SPECIFICATIONS.

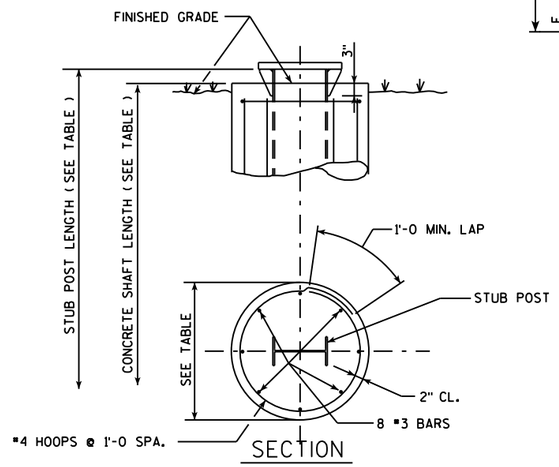


STIFFENER PLATE DETAIL
(SEE TABLE FOR DIMENSIONS)

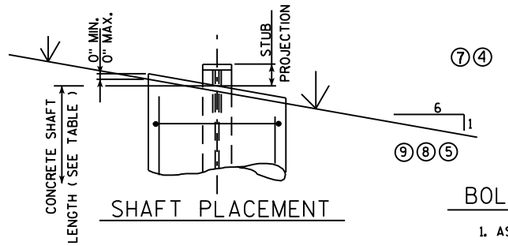


FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M.- B36.

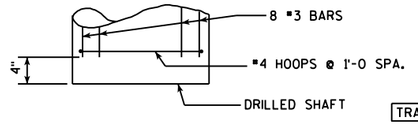
SHIM DETAIL



SECTION



⑦④ ⑨⑧⑤ SHAFT PLACEMENT

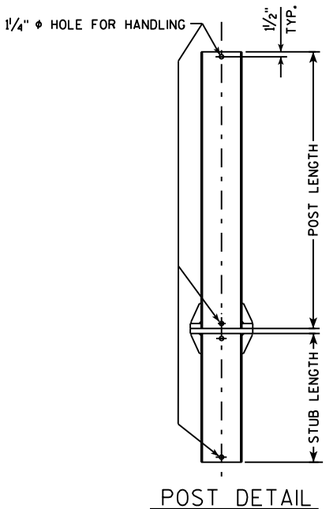


FOUNDATION DETAIL

BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
2. SHIM AS REQ'D. TO PLUMB POST.
3. PRIOR TO BOLT TIGHTENING LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
5. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.



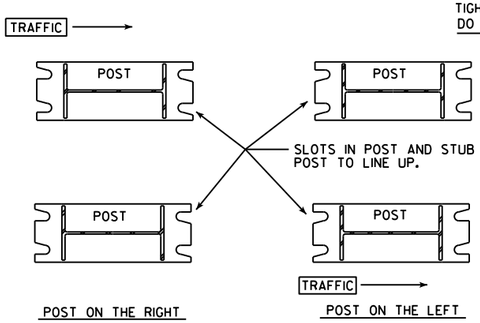
POST DETAIL

QUANTITIES FOR 1 FOOTING		
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
E	1.0	62

⑦

REINF.	TYPE	#3	#4
	A	8 @ 4'-5	5 @ 6'-3
	B	8 @ 6'-5	7 @ 6'-3
	C	8 @ 6'-11	7 @ 6'-3
	D	8 @ 7'-5	8 @ 6'-3
	E	8 @ 7'-11	9 @ 6'-3

⑦



POST SLOT ORIENTATION ⑦

L	X	TYPE	POST SIZE	WEIGHT PER FT	BASE CONNECTION DATA TABLE: BOLT SIZE & TORQUE	A	B	C	D	E	T_1	T_4	W_1	R	S	FOUNDATION DATA: STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	② K
3 3/4	④	A	W10"X12.0	12.0 LBS	3/4" ø @ 75"-FT.	5 1/4"	1'-0 3/8"	7/8"	3 1/2"	7/8"	1"	3/16"	5/16"	13/32"	2 1/8"	3'-6	3"	2'-0 ø	5'-0	76.0" ④
4 3/4	④	B	W12"X16.0	16.0 LBS	7/8" ø @ 85"-FT.	5 1/2"	1'-4 1/4"	1"	3 1/2"	1"	1 1/4"	1/4"	5/16"	15/32"	3"	5'-6	3"	2'-0 ø	7'-0	146.5" ④
5		C	W12"X19.0	19.0 LBS	7/8" ø @ 85"-FT.	5 1/2"	1'-4 1/4"	1"	3 1/2"	1"	1 1/2"	5/16"	5/16"	15/32"	3"	6'-0	3"	2'-0 ø	7'-6	182.1"
5		D	W12"X22.0	22.0 LBS	7/8" ø @ 85"-FT.	5 1/2"	1'-4 1/4"	1"	3 1/2"	1"	1 1/2"	3/8"	5/16"	15/32"	3"	6'-6	3"	2'-0 ø	8'-0	210.5"
5	③	E	W12"X26.0	26.0 LBS	1" ø @ 90"-FT.	7"	1'-4 1/4"	1 1/4"	4"	1 1/2"	1 1/2"	3/8"	5/16"	17/32"	3"	7'-0	3"	2'-0 ø	8'-6	293.0" ③

① ⑥ ①

STRUCTURAL CARBON STEEL PAY WTS. (1 POST) = K+ (POST LENGTH X POST WT.)
" K " INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch for State Traffic Engineer
DATE 8/22/17 PLATE NO. A3-1.17

NO.	DATE	REVISION
⑩	1-21-14	LUBRICATION OF BASE BOLTS
⑨	4-26-11	REMOVE NON-GALVANIZED
⑧	10-30-96	NOT GALVANIZED/GALVANIZED
⑦	10-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
⑥	8-24-87	BASE CONN. WELD
⑤	10-13-81	BASE CONN. WELD & FUSE & WASHERS
④	10-19-79	POST A & B, A572 GR. 50, & K
②	11-28-78	"K" ③ 4-23-79 TYPE "E"
①	5-4-78	T_1 . T_2 & W_1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

TYPE A, B, C, D, & E

CONST. SPEC. 2011	DRAWN BY JPH	PLANS CK'D.

FTG. & SIGN SUPPORT DETAILS GROUND MOUNT BREAK-AWAY SIGNS

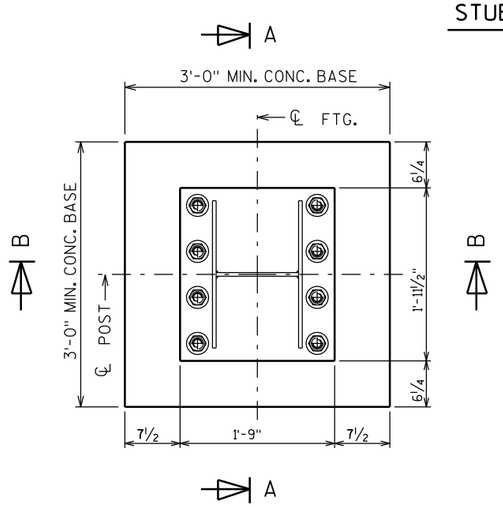
SHEET

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 291 E

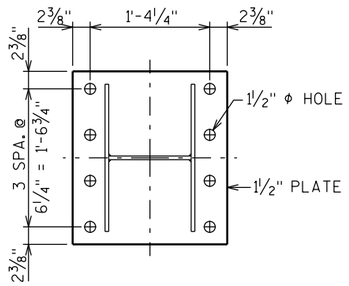
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A31.DGN PLOT DATE : 22-AUG-2017 09:41 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 5.415383:1.000000

WISDOT/CADDS SHEET 42

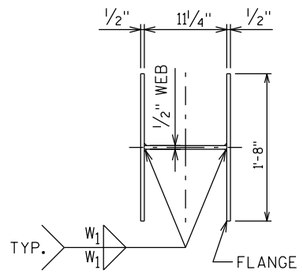
STUB AND MASONRY ANCHOR DETAILS



STUB SECTION



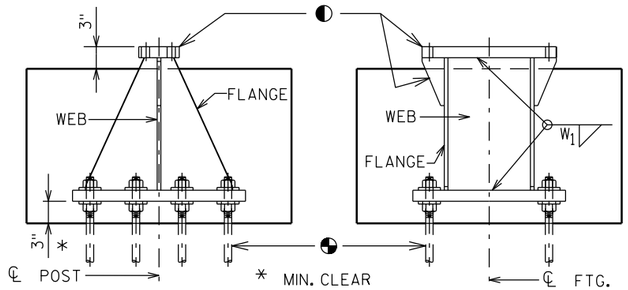
BASE PLATE



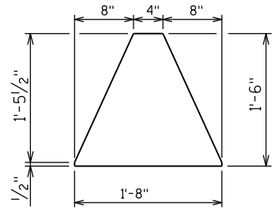
STUB

◐ SEE PLATE NO. A3-1 FOR DETAILS

◒ MASONRY ANCHORS TYPE S 1¼-INCHES (ADHESIVE). ALLOWABLE PULL OUT CAPACITY 14,995 KIPS. EMBED 1'-3" IN ROCK.



SECTION A SECTION B



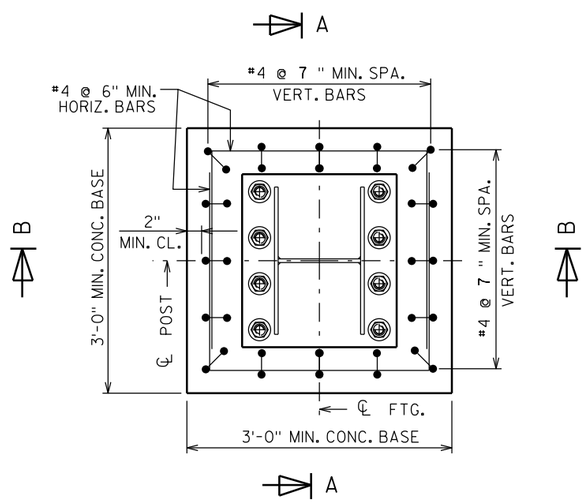
FLANGE

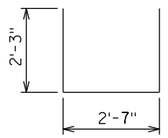
GENERAL NOTES

1. Quantities per Base:
   - REINFORCING BAR STEEL = 62 LBS
   - CONCRETE = 0.6 C.Y.
   - STEEL WEIGHT = 335 LBS
2. All materials, except anchor rod, nuts and washers, are to be A.S.T.M. A709 grade 50. All materials to be galvanized after fabrication.
3. If the contractor encounters rock before reaching the footing depth, per the A3-1 Sign Detail, determine the pull-out capacity of a test adhesive anchor installed in the rock. If the test result equals or exceeds the pull-out capacity of 14,995 KIPS, the contractor may install the breakaway stub for rock, according to this detail.

CONCRETE BASE AND REINFORCING STEEL DETAILS

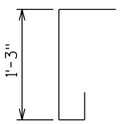
CONCRETE BASE SECTION





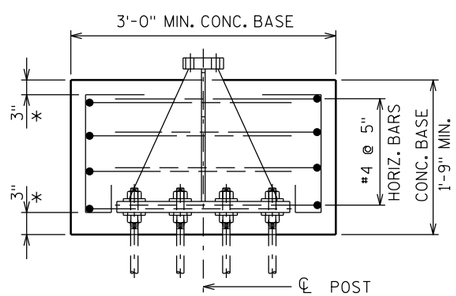
HORIZONTAL BAR

8 BARS @ 6'-11" LENGTH



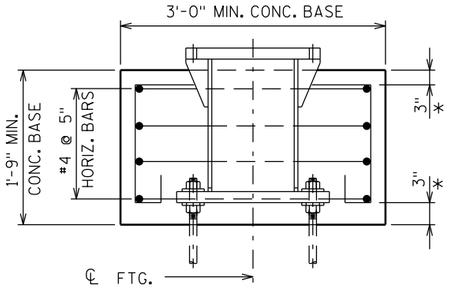
VERTICAL BARS

16 BARS @ 2'-4" LENGTH
MAY BE PLACED IN SKEW
FOR CLEARANCE NEED



SECTION A

* MIN. CLEAR



SECTION B

ALTERNATE BREAK-AWAY BASE ON ROCK
A3-1M

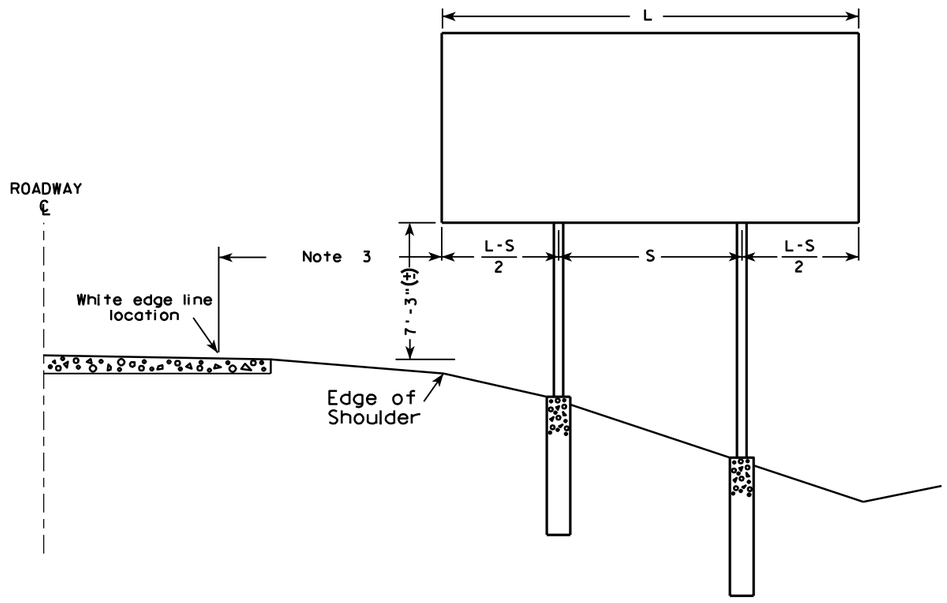
WISCONSIN DEPT OF TRANSPORTATION

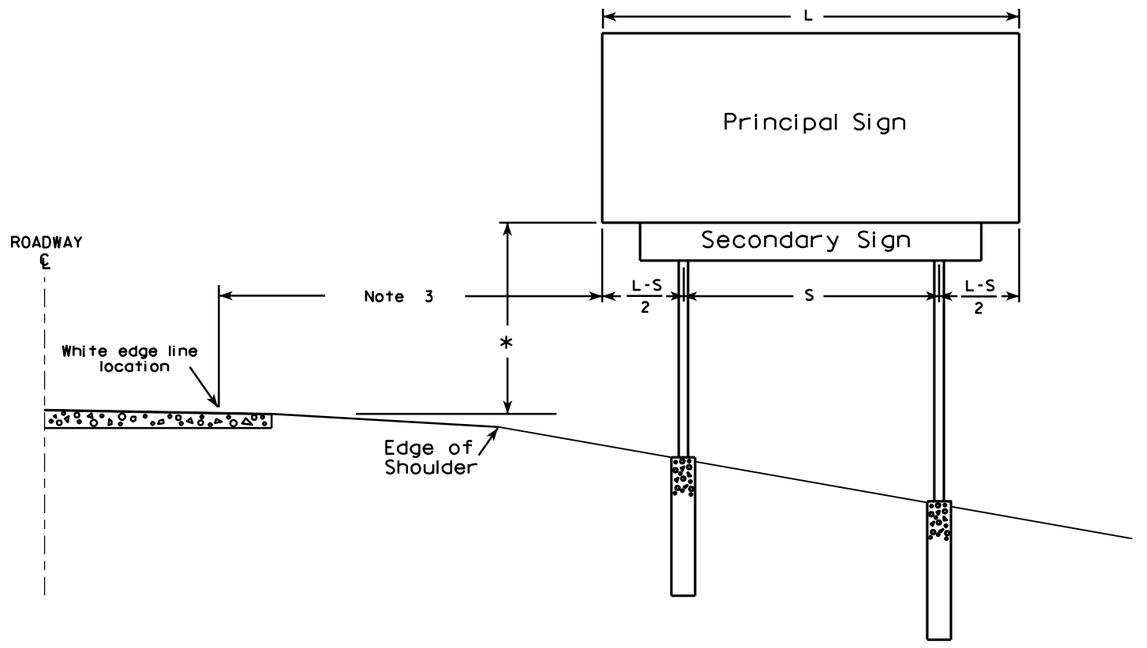
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 2/06/2014 PLATE A3-1M.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A31M.DGN PLOT DATE : 10-MAR-2014 15:16 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.556674:1.000000 WISDOT/CADDS SHEET 42





GENERAL NOTES

1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
4. The (±) tolerance shown on this sheet is 3 in.
5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.

* Clearance is 8'-3"(±) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3"(±).

7

7

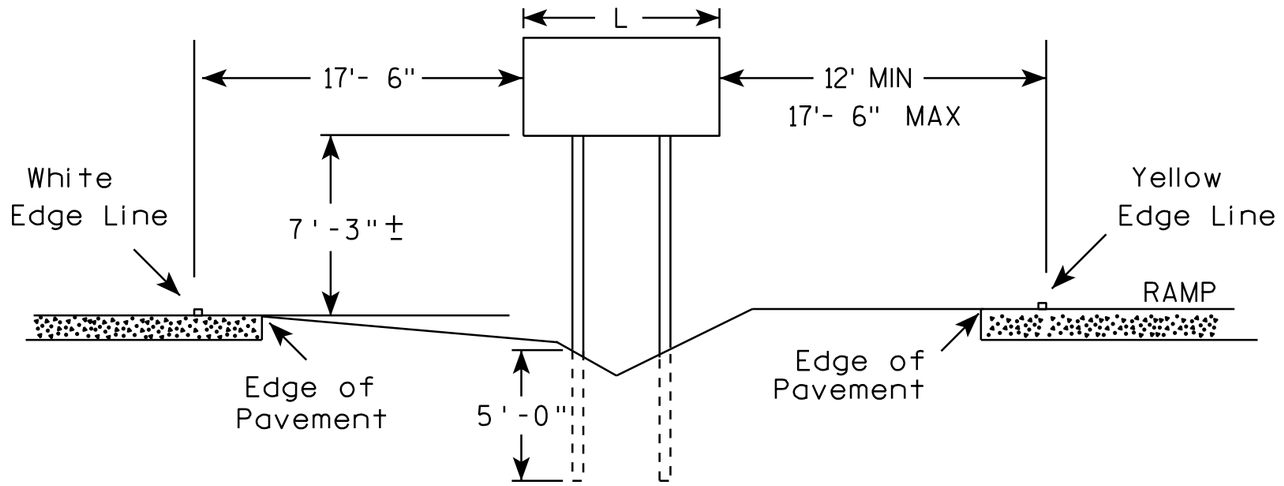
TYPICAL INSTALLATION
OF TYPE I SIGNS

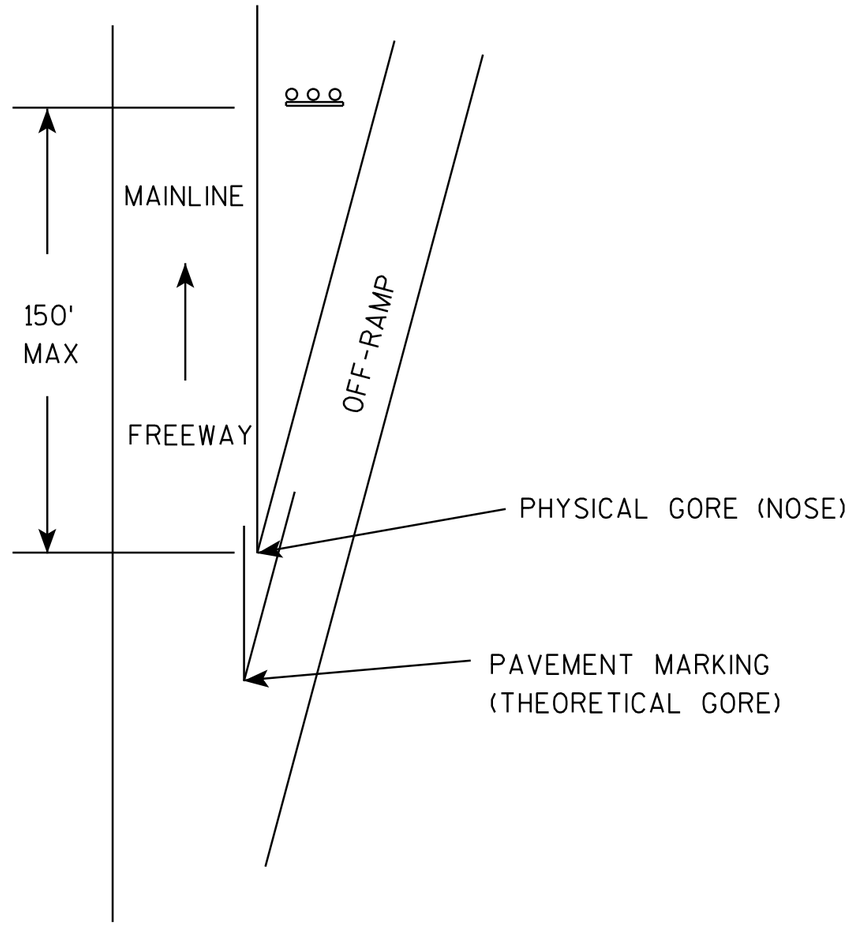
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/02/08 PLATE NO. A4-1.9

PROJECT NO:				SHEET NO: 293	E





GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The (∓) tolerance for the mounting height is 3 inches.

7

7

TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

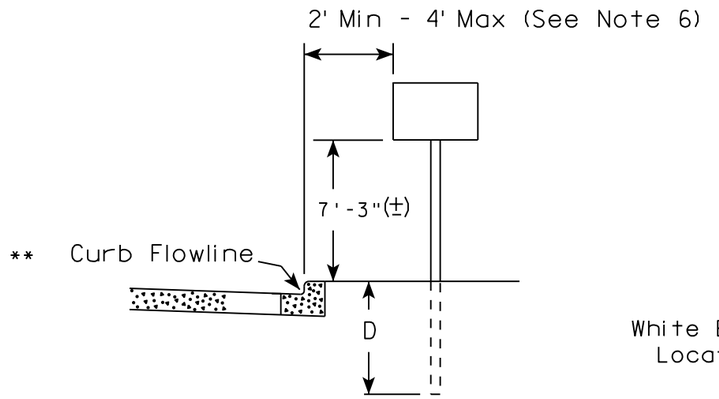
DATE 2/06/14 PLA... A4-2.3

PROJECT NO: | SHEET NO: E

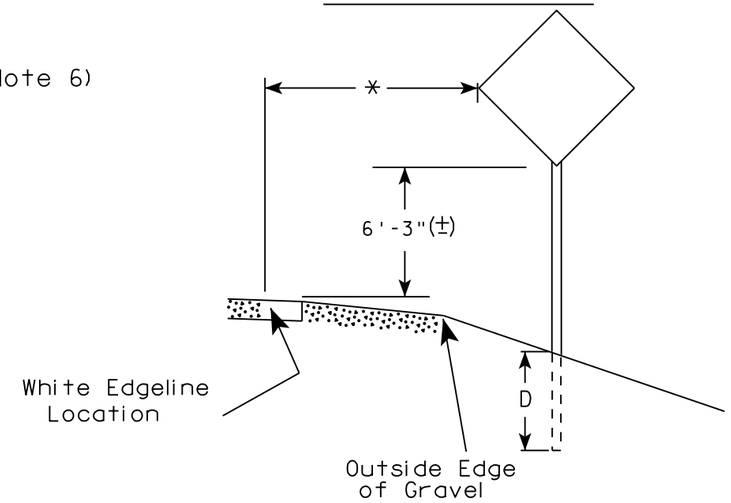
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A42.DGN PLOT DATE : 06-FEB-2014 12:36 PLOT BY : mscsja

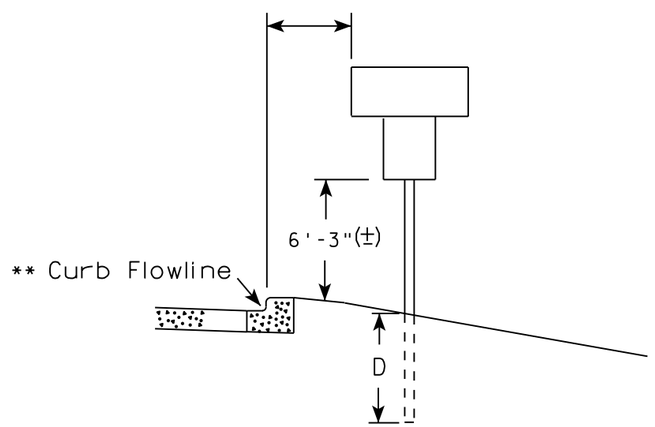
WISDOT/CADDS SHEET 42

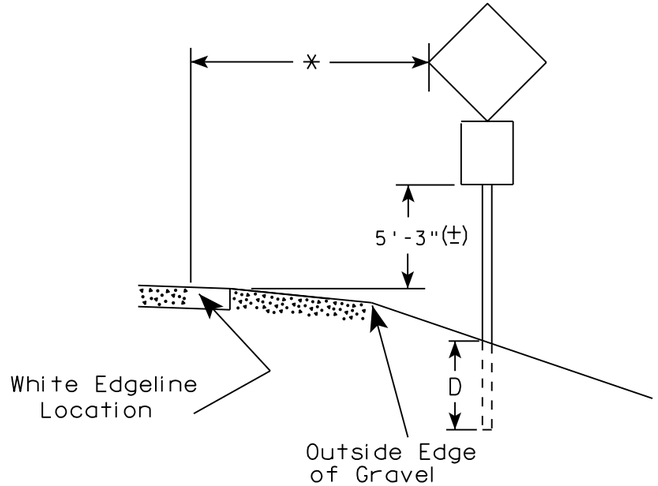
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

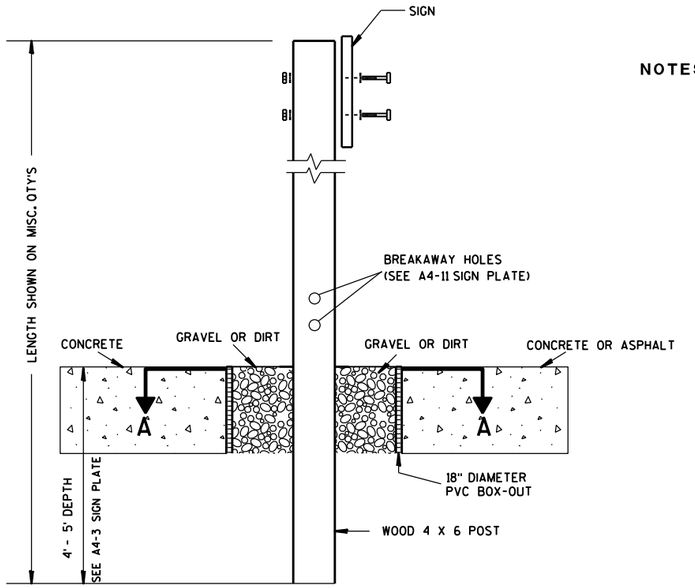
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), 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" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

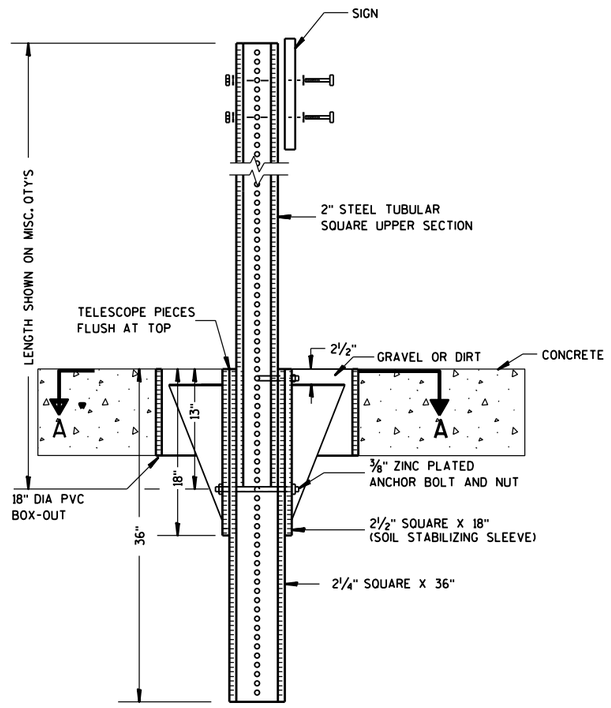
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

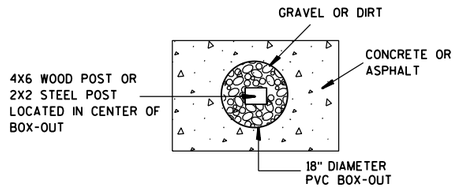
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

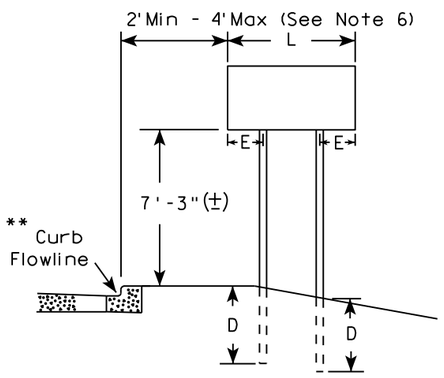
APPROVED Matthew R Rauch
for State Traffic Engineer

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

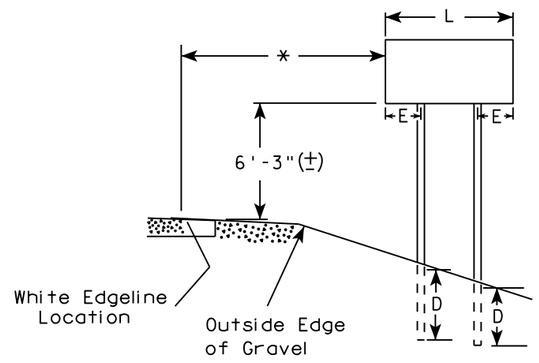
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

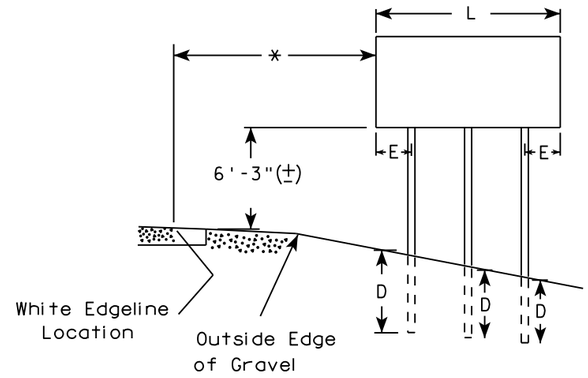
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

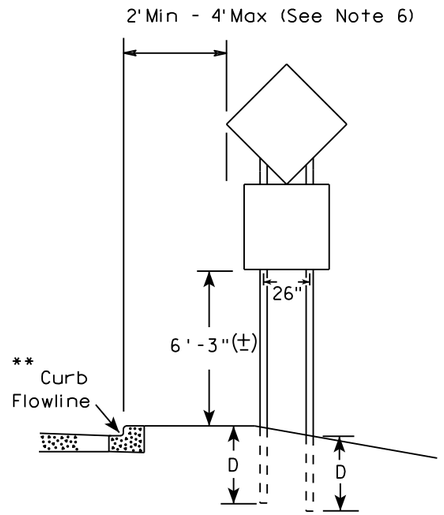
URBAN AREA



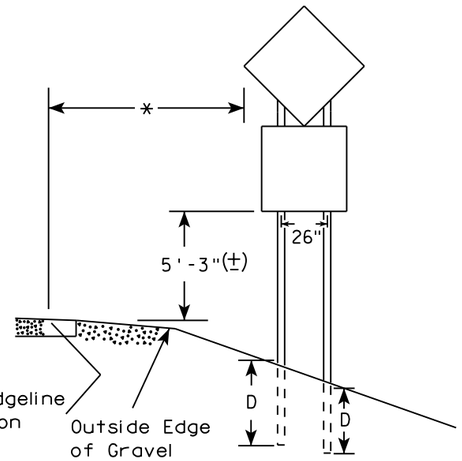
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

GENERAL NOTES

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

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

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

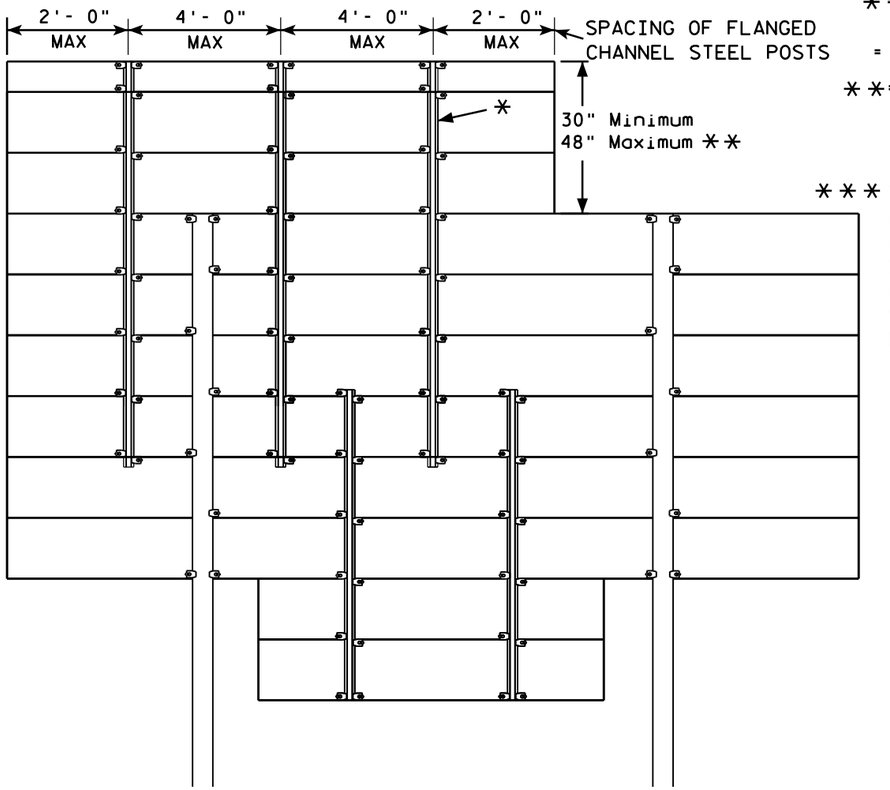
DATE 8/21/17 PLATE NO. A4-4.15

7

7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 297 | E

GROUND MOUNTED SIGN

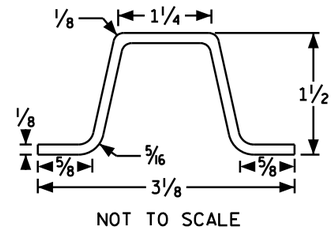


*=2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

**=FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

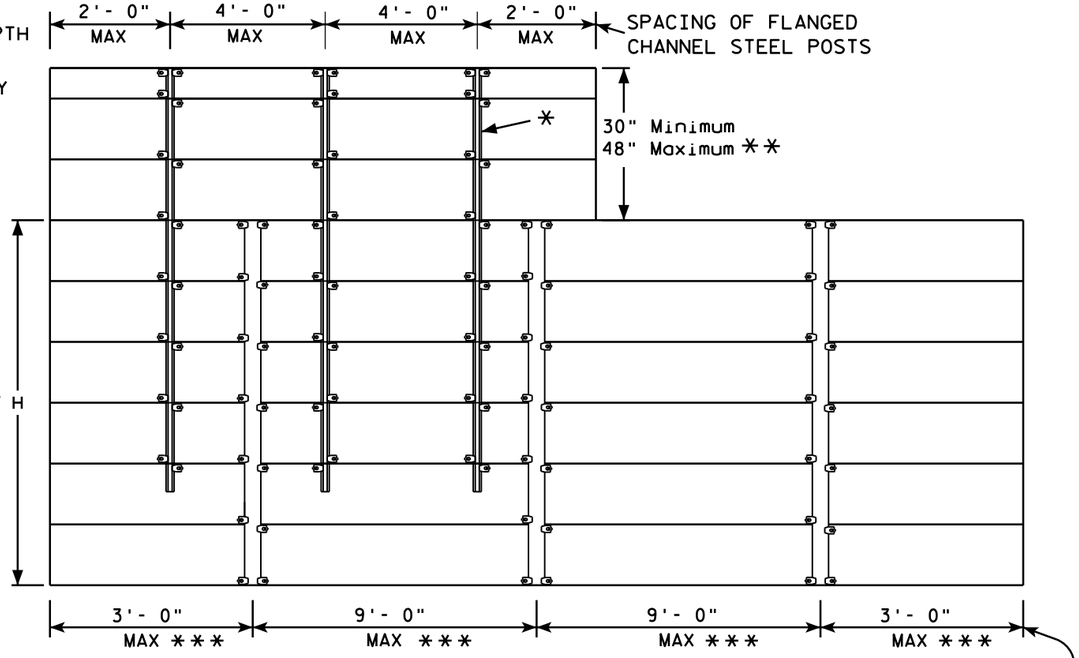
*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.

2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.

3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.

4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.

5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)

6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

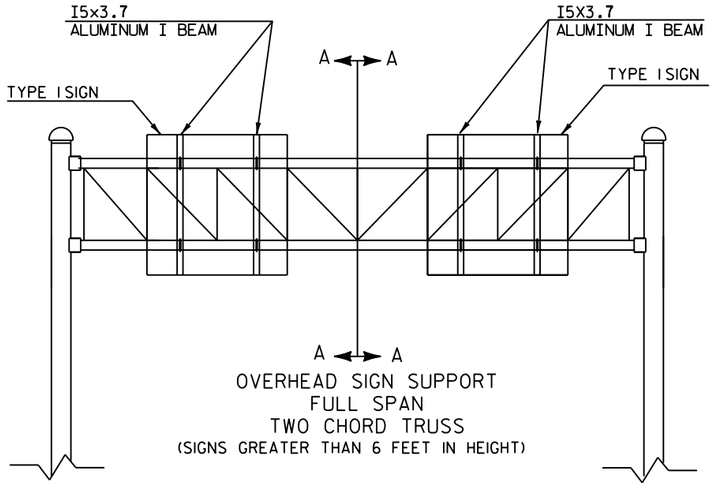
ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

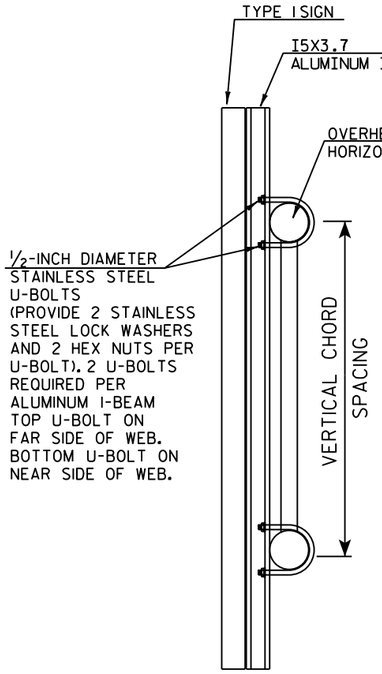
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/05/13 PLAT 298 A4-6.12

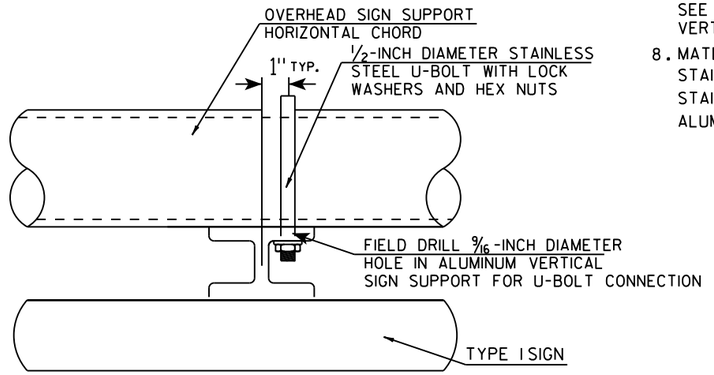
PROJECT NO: | SHEET NO: E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



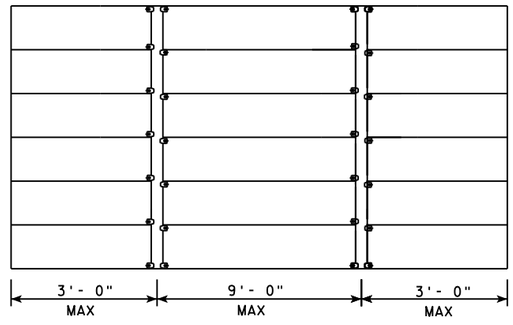
CUT SECTION A-A



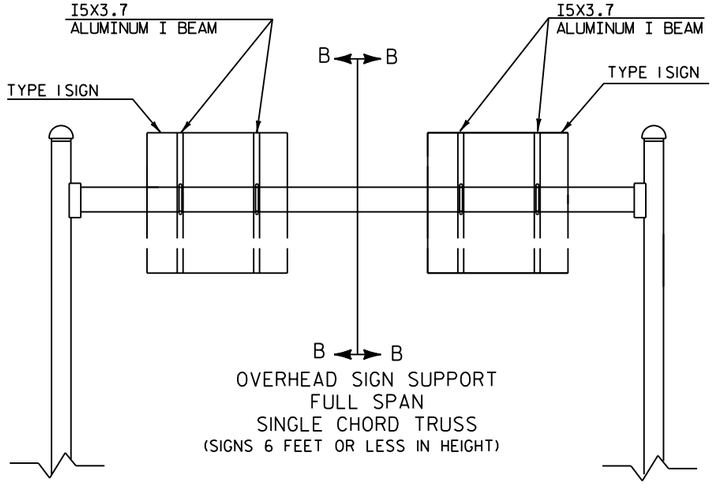
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

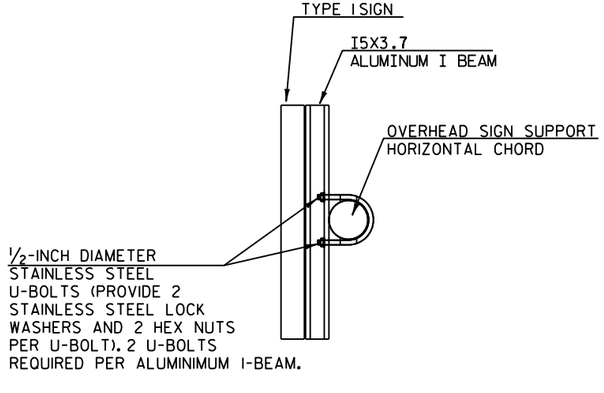
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.



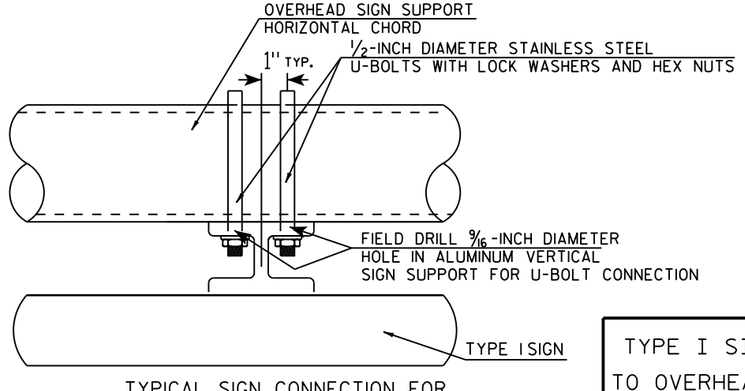
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
SINGLE CHORD TRUSS
(SIGNS 6 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
SINGLE CHORD TRUSS
PLAN VIEW

TYPE I SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

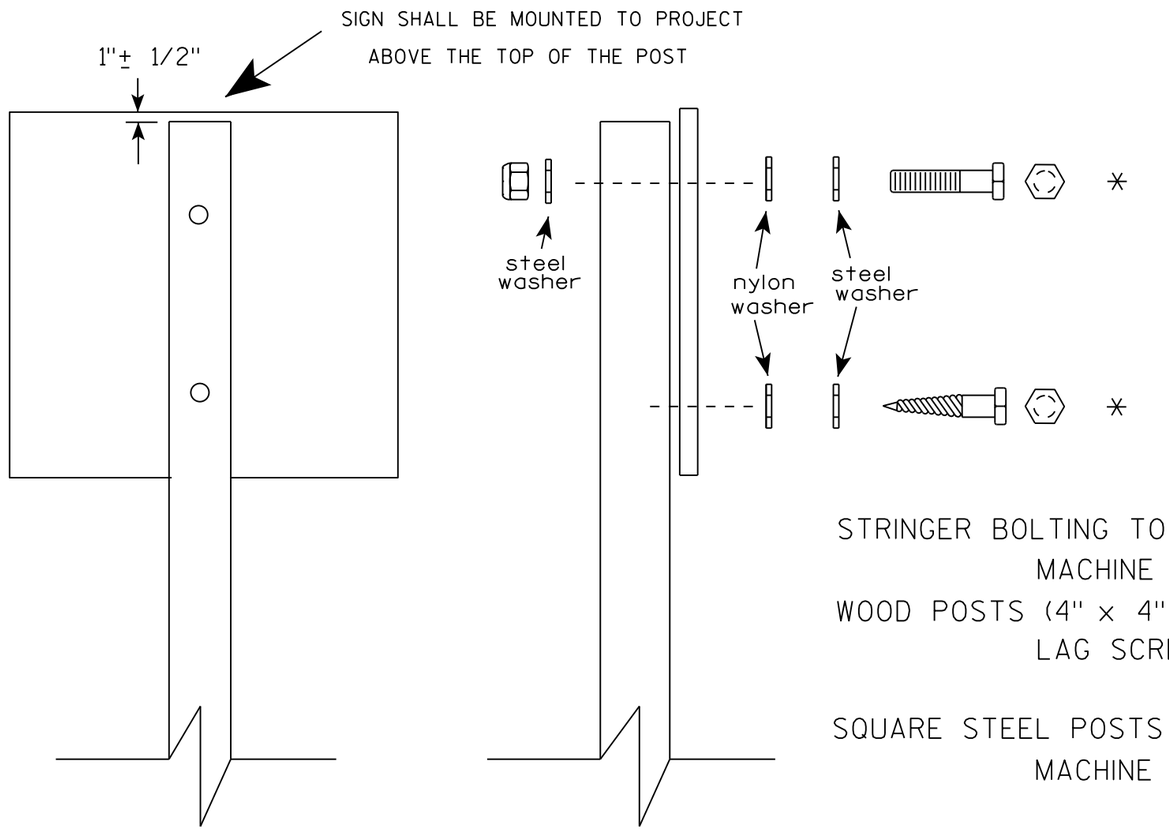
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/15 PLATE NO. A4-7.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A47.DGN PLOT DATE : 01-DEC-2015 17:42 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 38.916838:1.000000



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 4" or 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 8/11/16 PLATE NO. A4-8.8

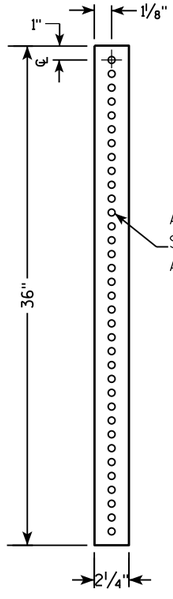
PROJECT NO:

SHEET NO: E

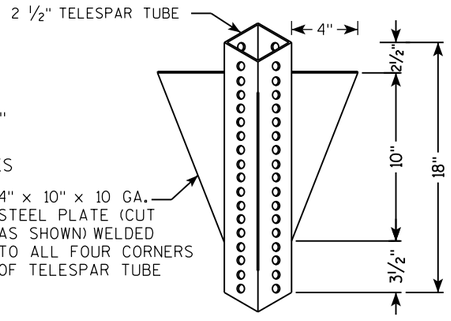
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

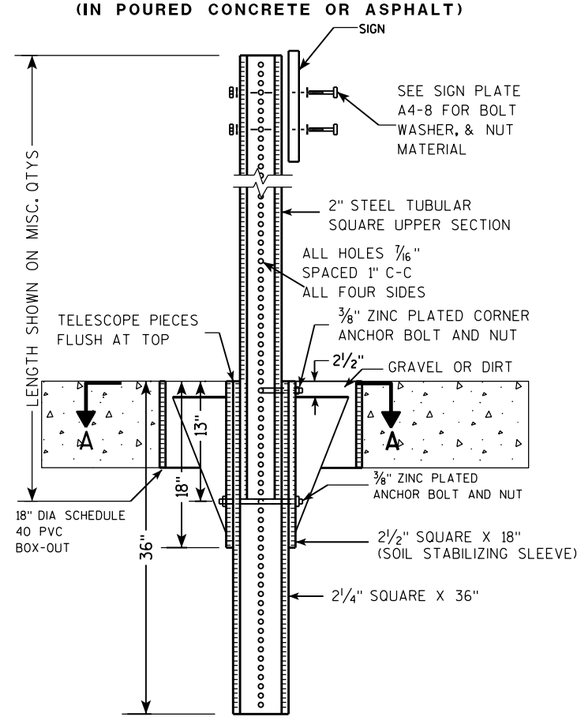
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



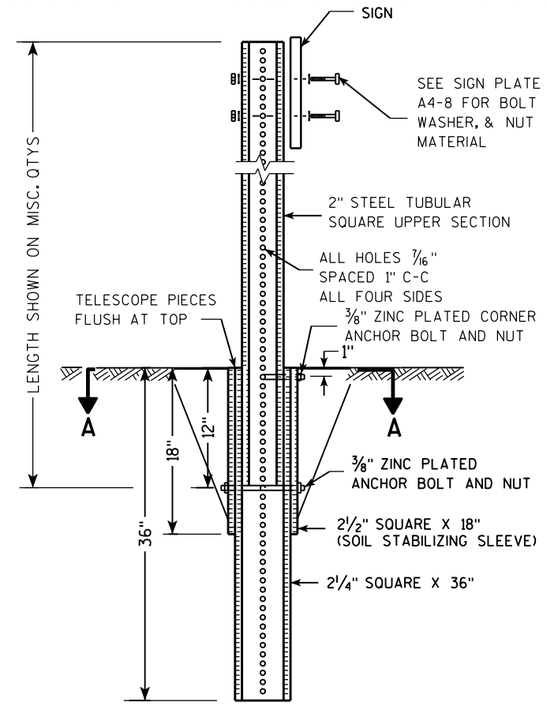
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

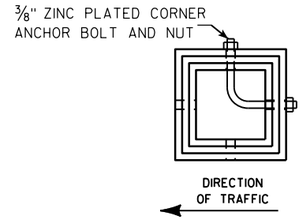


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

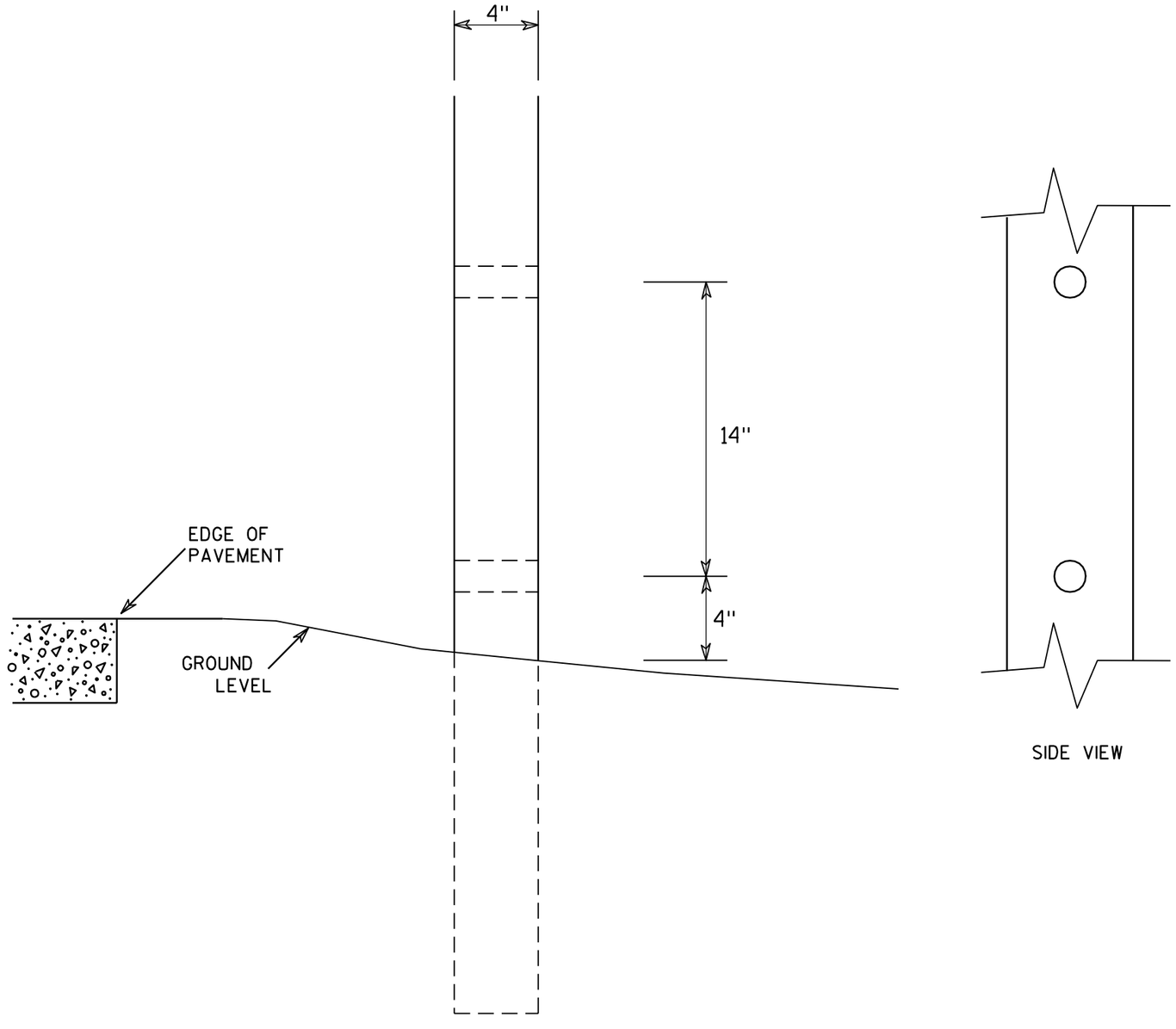
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 301 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

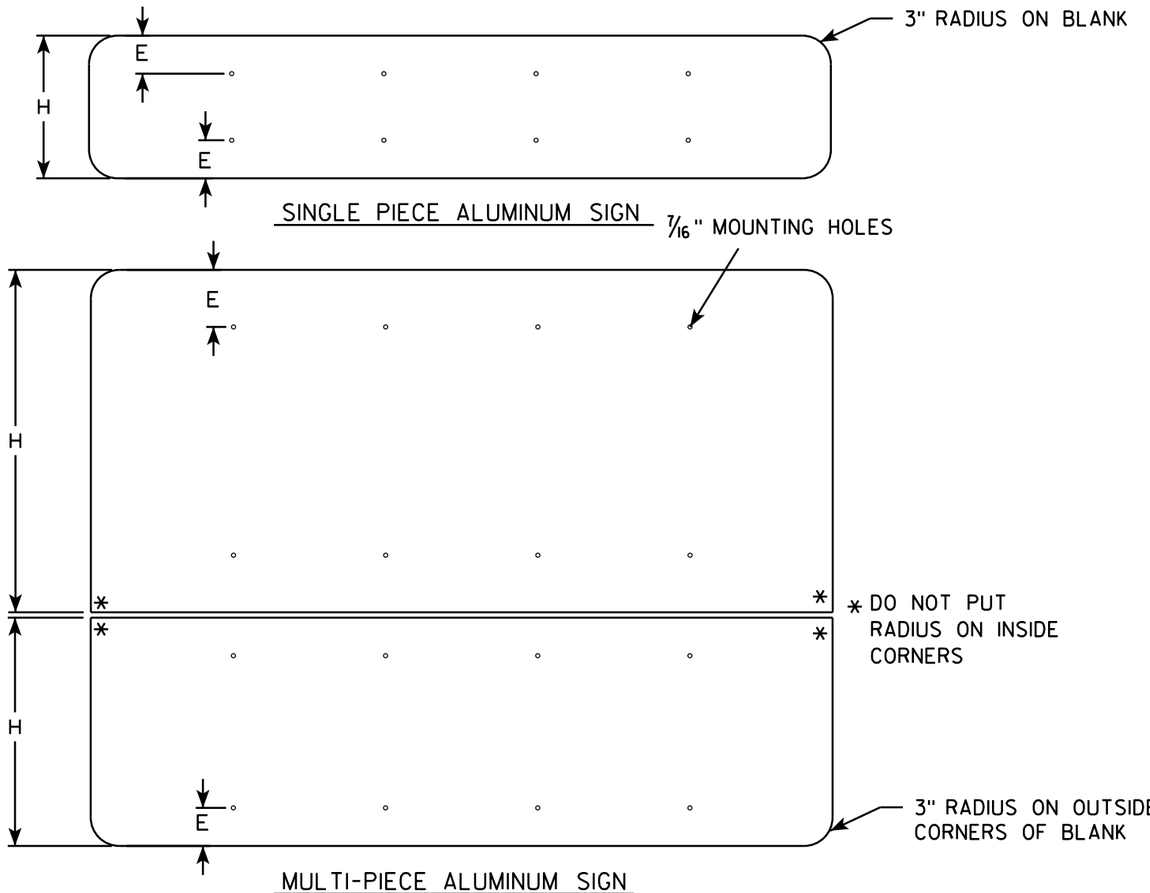
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

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

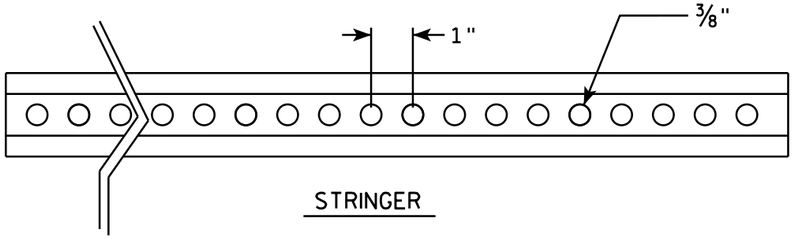
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 302	E



GENERAL NOTES

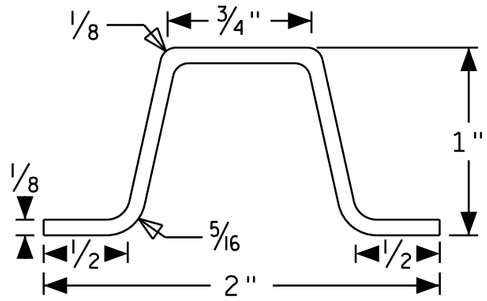
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

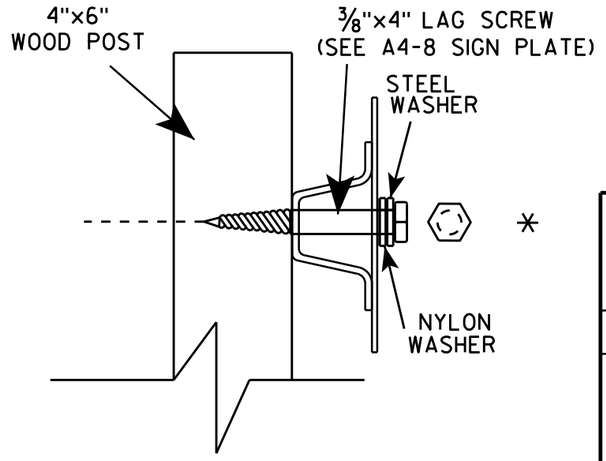


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

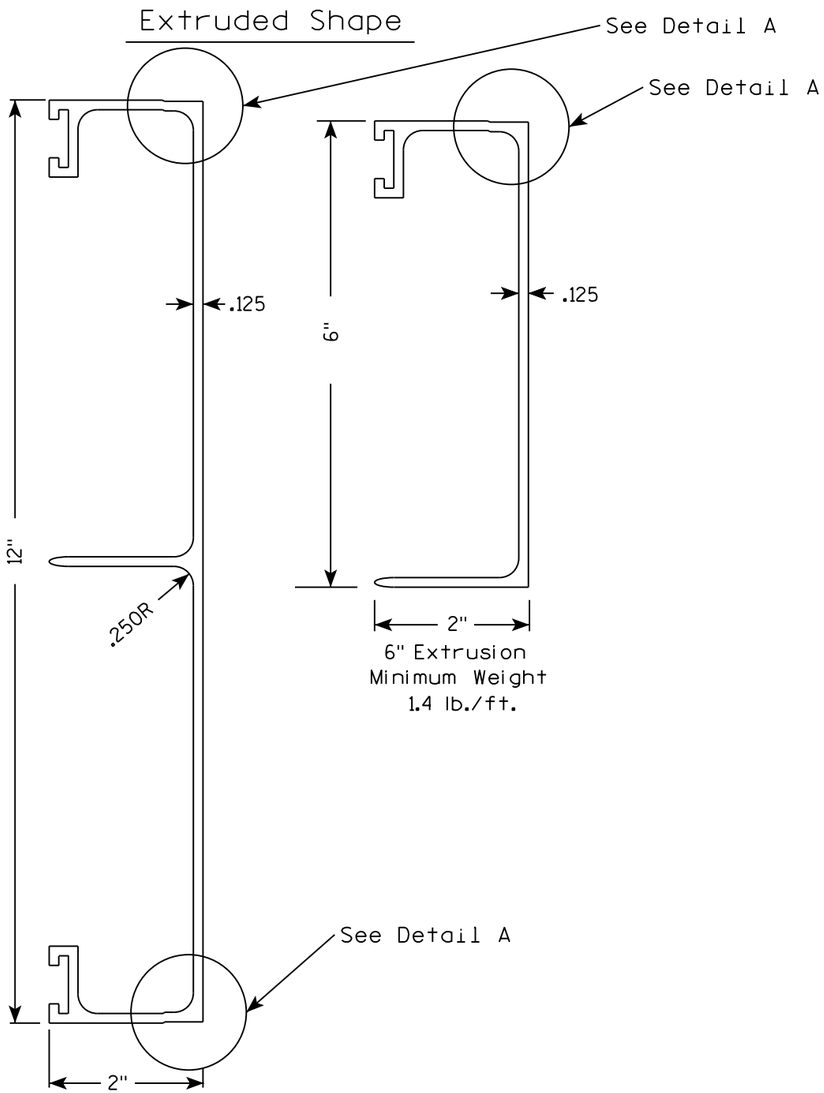
for State Traffic Engineer

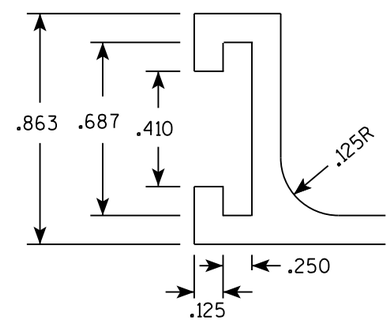
DATE 4/26/16 PLATE NO A4-18.1

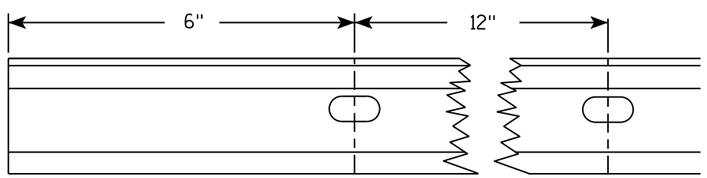
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

Extruded Shape







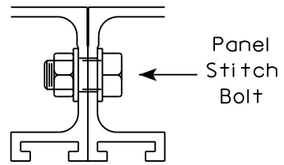
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

Hardware

STITCH BOLT, WASHER & NUT

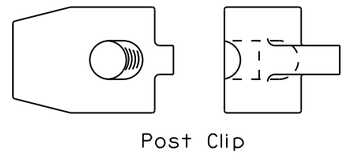
The hardware includes:

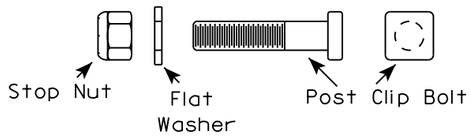
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

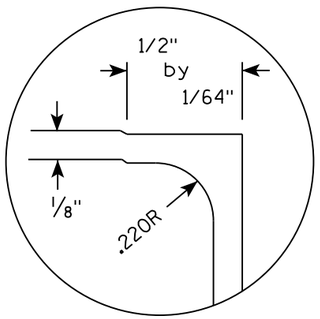
Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.



DETAIL A (EDGE WRAP JOINT)

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

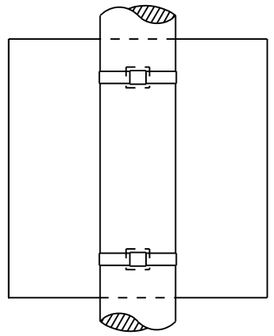
APPROVED Matthew R Rauch
for State Traffic Engineer

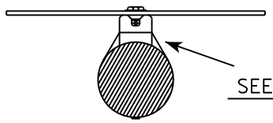
DATE 11/30/16 PLATE NO. A5-2.10

PROJECT NO:				SHEET NO: 304	E

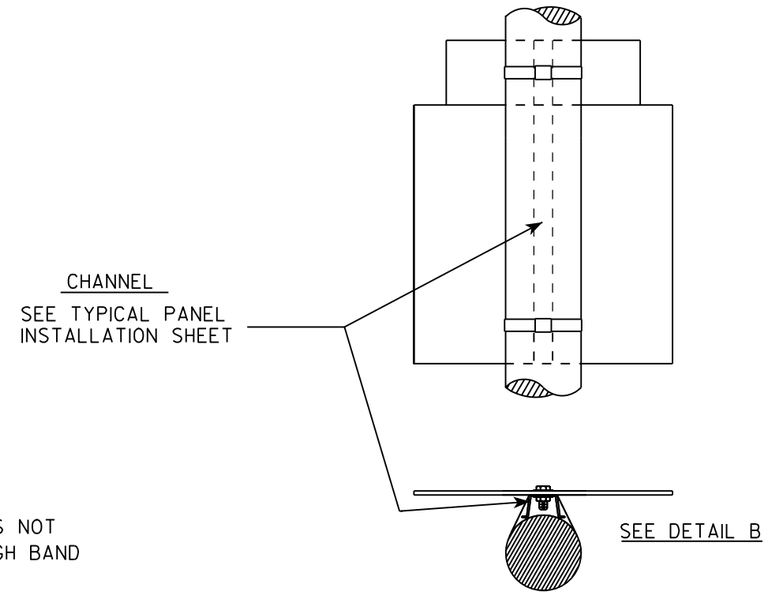
BANDING

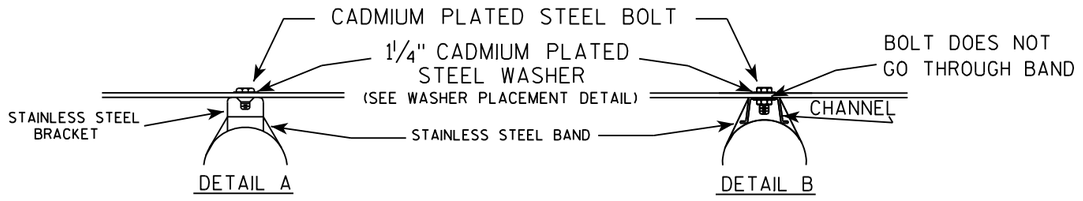
SINGLE SIGN



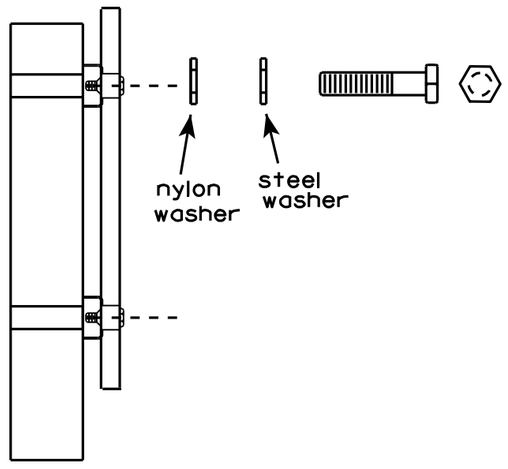


"J" ASSEMBLY





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.

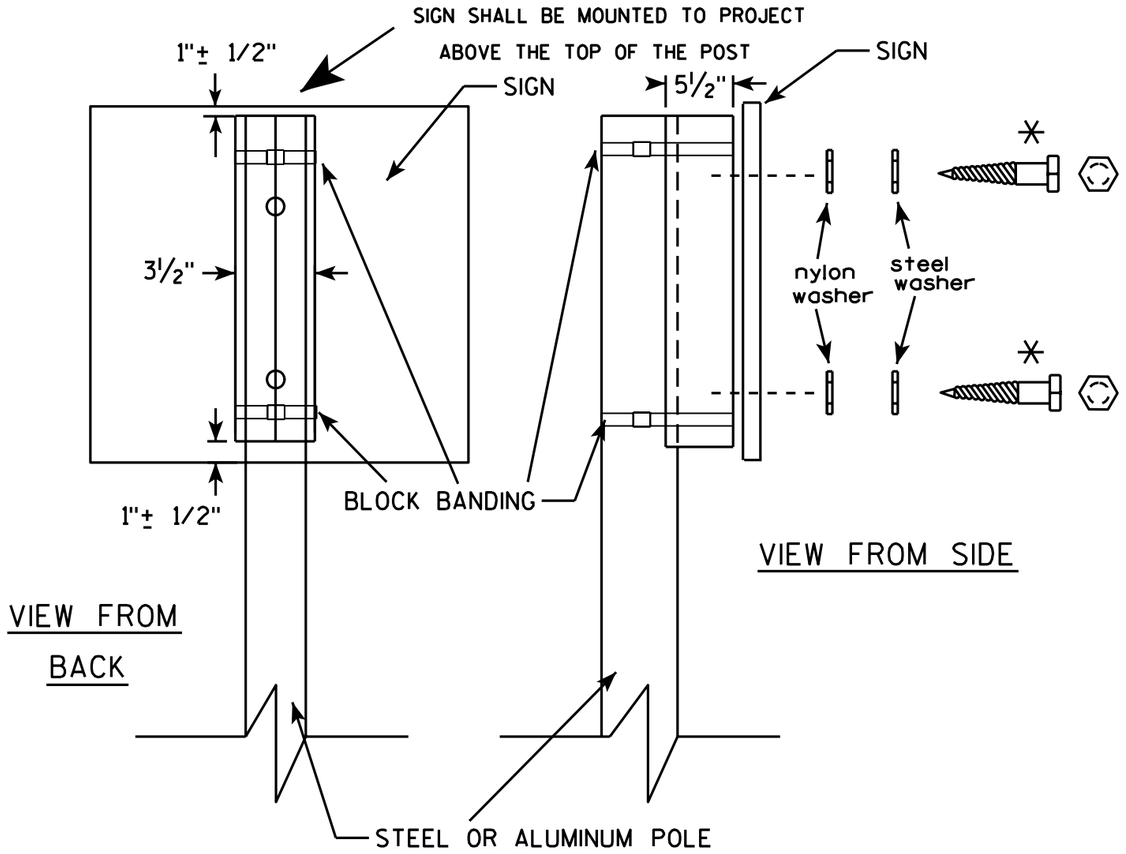
STANDARD SIGN
SIGN BANDING DETAILS

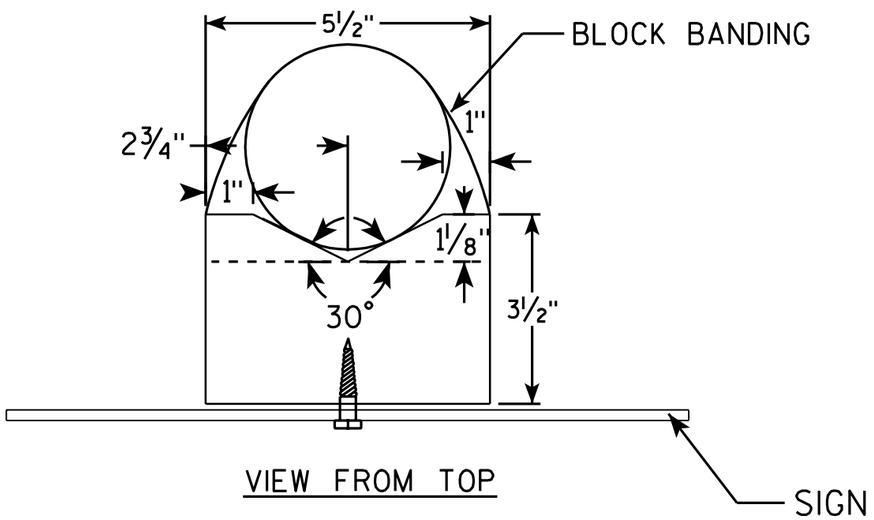
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 305	E





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, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. 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"

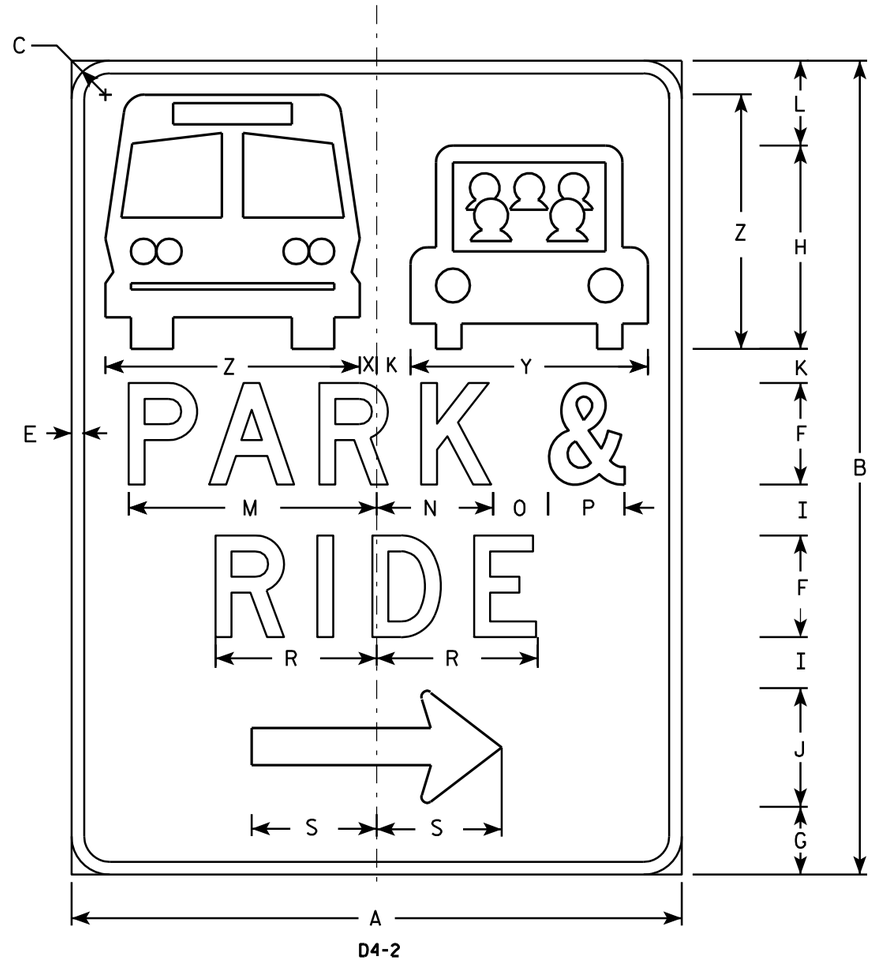
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

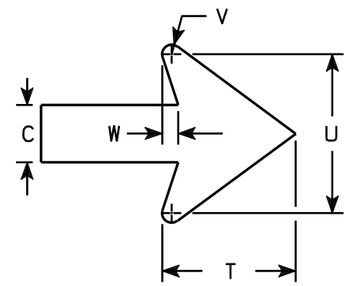
PROJECT NO:				SHEET NO: 306	E



D4-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
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. The D4-2L is the same as a D4-2R except the arrow is reversed.
6. The D4-2 sign may have either symbol or both symbols at the same time.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8		1/2	4	1 5/8	7 1/2	1 1/2	4 5/8	1 3/8	3 7/8	9 3/4	4	2 3/4	3		6 3/8	4 7/8	3 1/2	4 1/8	1/4	3/8	5/8	9 3/8	10	5.0
2	30	36	1 3/8		5/8	5	2	9	1 5/8	5 1/2	1 5/8	4 5/8	12 1/4	5 1/8	3 3/8	3 3/4		8	6 1/8	4 3/8	5 1/4	3/8	1/2	7/8	11 3/4	12 1/2	7.50
3	36	48	2 1/4		3/4	6	4	12	3	7	2	5	14 5/8	6 7/8	3 1/4	4 1/2		9 1/2	7 1/2	5 1/4	6 1/4	3/8	5/8	1	14	15	12.0
4																											
5																											

STANDARD SIGN
D4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. D4-2.5

PROJECT NO:

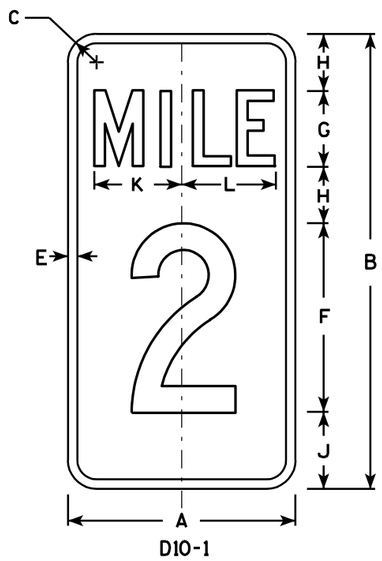
SHEET NO: 307 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\D42.dgn PLOT DATE : 10-FEB-2011 14:21 PLOT BY : mscsja

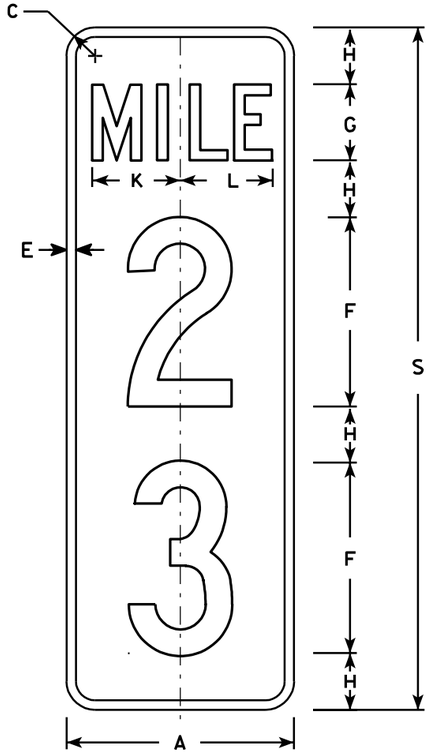
WISDOT/CADDS SHEET 42

7

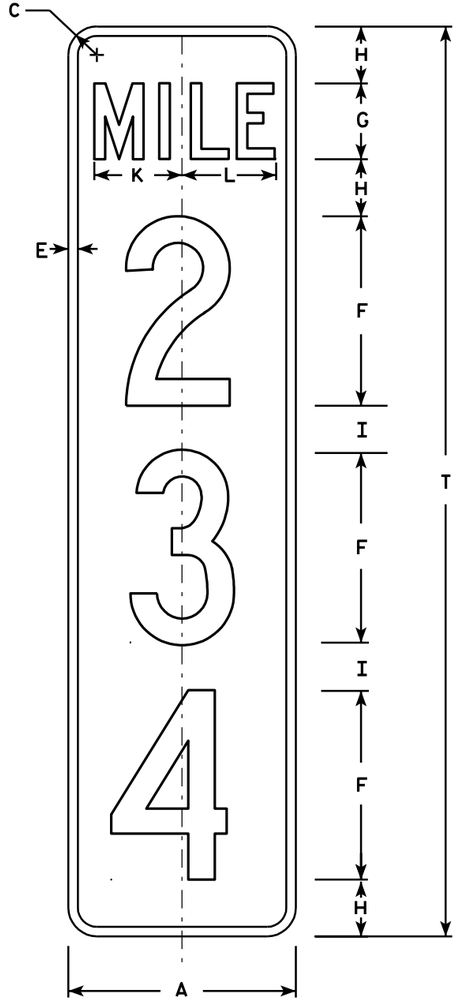
7



D10-1



D10-2



D10-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
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. Optically adjust numerals about the centerline of the sign to achieve proper balance.

Metric equivalent for this sign is:

PHY. SIZE	
12 X 24	300 mm X 600 mm
12 X 36	300 mm X 900 mm
12 X 48	300 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3																										
4	12	24	1 ½		½	10	4	3	2 ½	4	4 ⅝	4 ⅞							36	48						
5	12	24	1 ½		½	10	4	3	2 ½	4	4 ⅝	4 ⅞							36	48						

D10-1	D10-2	D10-3
Area sq. ft.	Area sq. ft.	Area sq. ft.
2.0	3.0	4.0
Area m2	Area m2	Area m2
.19	.28	.38

STANDARD SIGN
D10-1 , D10-2 & D10-3

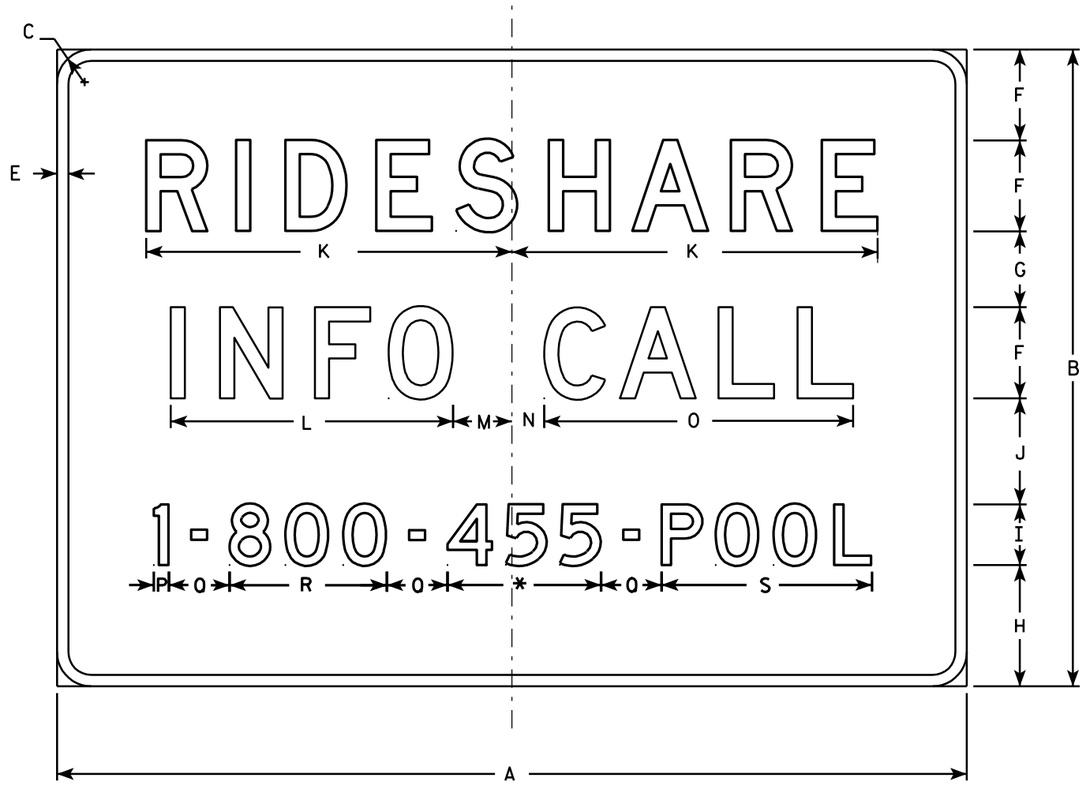
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for Director, Office of Traffic

DATE 1/16/02 PLATE NO. D10-3.2

PROJECT NO:

SHEET NO: 308 E



D12-2A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White - Type H Reflective
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. Substitute appropriate numerals and adjust spacing as required to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	1200 mm X 525 mm
2	1500 mm X 1050 mm
3	
4	1500 mm X 1050 mm
5	1950 mm X 1350 mm

* Variable (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.	Area m2
1	48	21	1 1/2		1/2	3	2 3/4	3 1/2	3	2 3/4	12 1/8	9 3/8	2	1 1/8	10 1/4	3/4	3	7 3/4	10 5/8								7.0	0.63
2	60	42	2 1/4		3/4	6	5	8	4	7	24 1/8	18 5/8	3 1/8	2 1/8	20 1/8	1	4	10 3/8	13 7/8								17.5	1.58
3																												
4	60	42	2 1/4		3/4	6	5	8	4	7	24 1/8	18 5/8	3 1/8	2 1/8	20 1/8	1	4	10 3/8	13 7/8								17.5	1.58
5	78	54	3		1	8	6	10	6	8	30 1/8	23 5/8	4 1/8	2 1/8	26 3/8	1 1/2	5	15 1/2	21 1/4								29.25	2.63

STANDARD SIGN
D12-2A

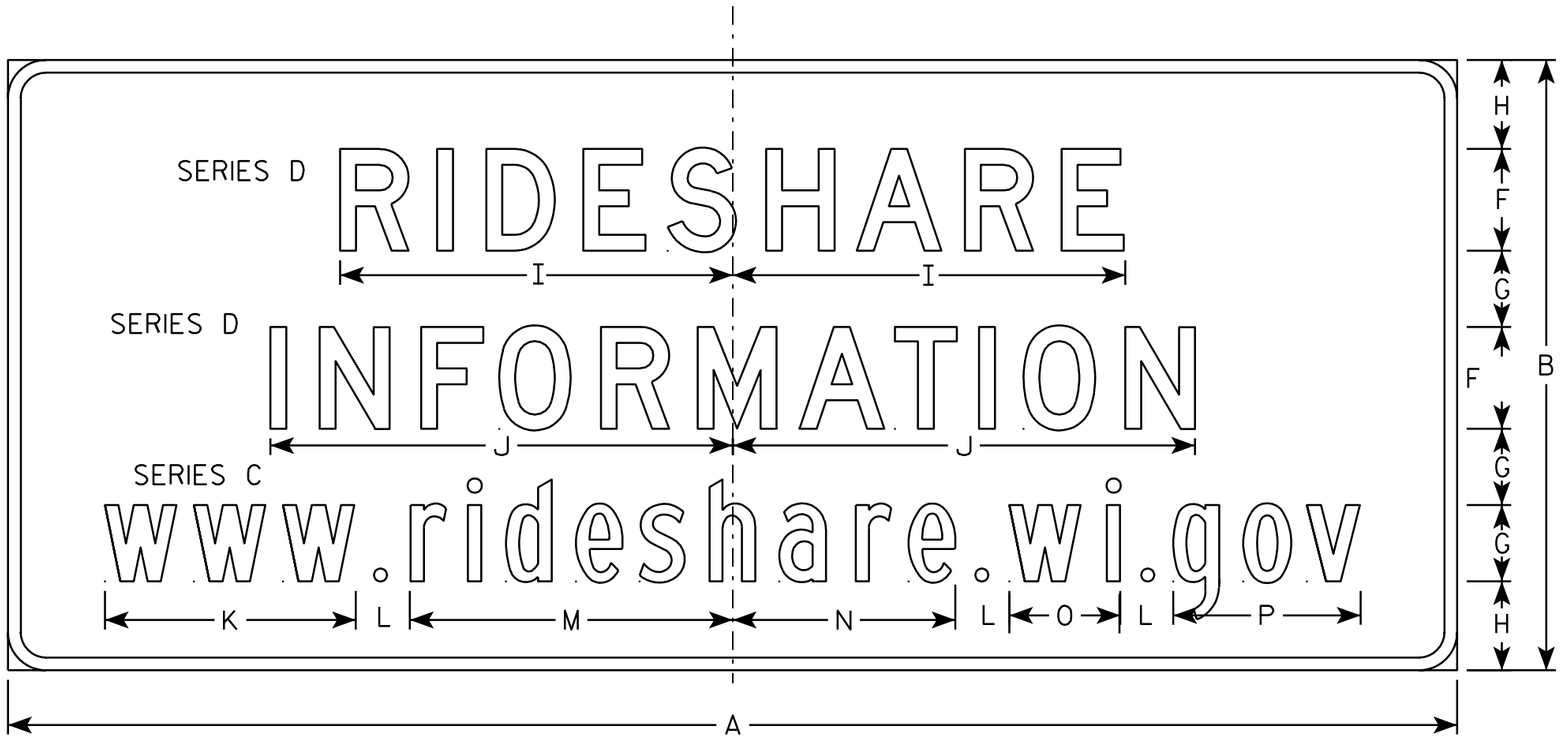
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spay for State Traffic Engineer

DATE 1/16/02 PLATE NO. D12-2A.3

PROJECT NO:

SHEET NO: 309 E



D12-2B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White
3. Message Series - Lines 1 & 2 are Series D and Line 3 is Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	
2	2100 mm X 900 mm
3	
4	2850 mm X 1200 mm
5	2850 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	84	36	2 1/4		3/4	6	4 1/2	5 1/4	24 1/4	28 5/8	14 3/4	3	19	13 1/8	6 1/2	11											21.0	1.90
3																												
4	114	48	3		1	8	6	7	30 7/8	36 3/8	19 3/4	4 1/4	25 3/8	17 1/2	8 3/4	14 3/4											38.0	3.42
5	114	48	3		1	8	6	7	30 7/8	36 3/8	19 3/4	4 1/4	25 3/8	17 1/2	8 3/4	14 3/4											38.0	3.42

STANDARD SIGN
D12-2B

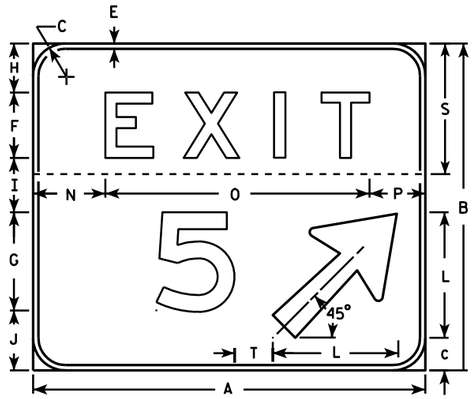
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

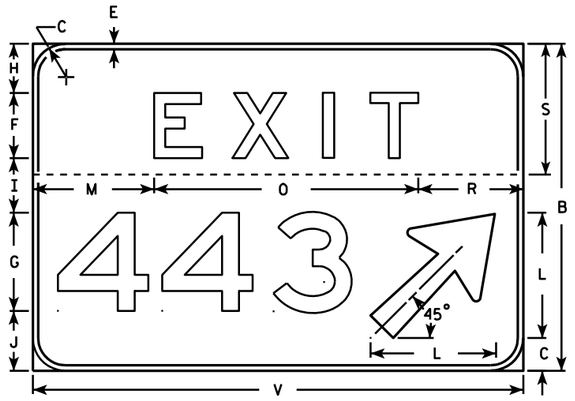
DATE 8/04/08 PLATE NO D12-2B.2

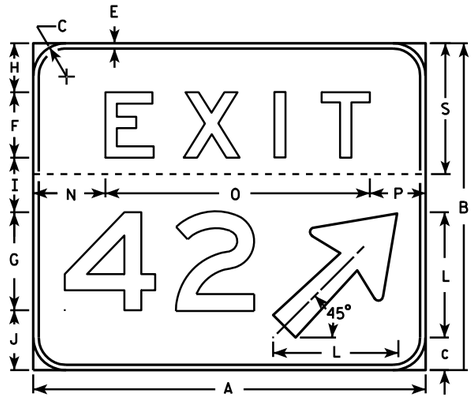
PROJECT NO:

SHEET NO: 310 E



NOTE: T diminision shall be measured from the back of the number to the front of the arrow





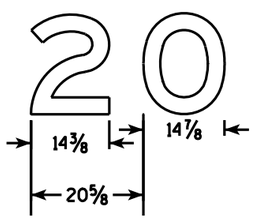
NOTES

1. Sign is Type II - Type H reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White (Type H reflective)
3. Message Series - E
4. Corners may be square or rounded but the border shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two seperate pieces as shown on each detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8			
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8			
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4			
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8			
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8			
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8			
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4			
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8			
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4			
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

EXAMPLE FOR USING SPACING CHART



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
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	8 7/8	23	22 1/4	13 1/4	48 1/2	10 1/4		19 1/4	24	7		90		96	7 1/2	

1-2 Digit Bid Area	3 Digit Bid Area
Sq. Ft.	
30	37.5

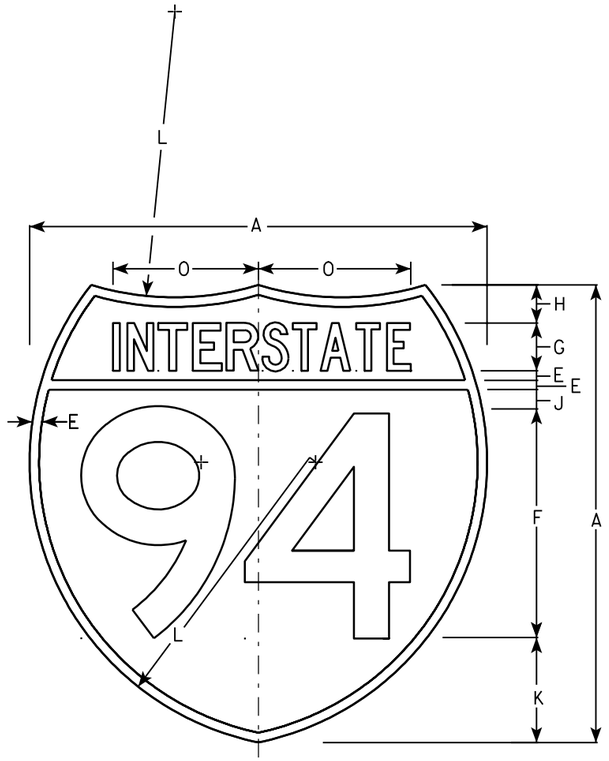
STANDARD SIGN E5-1A

WISCONSIN DEPT OF TRANSPORTATION

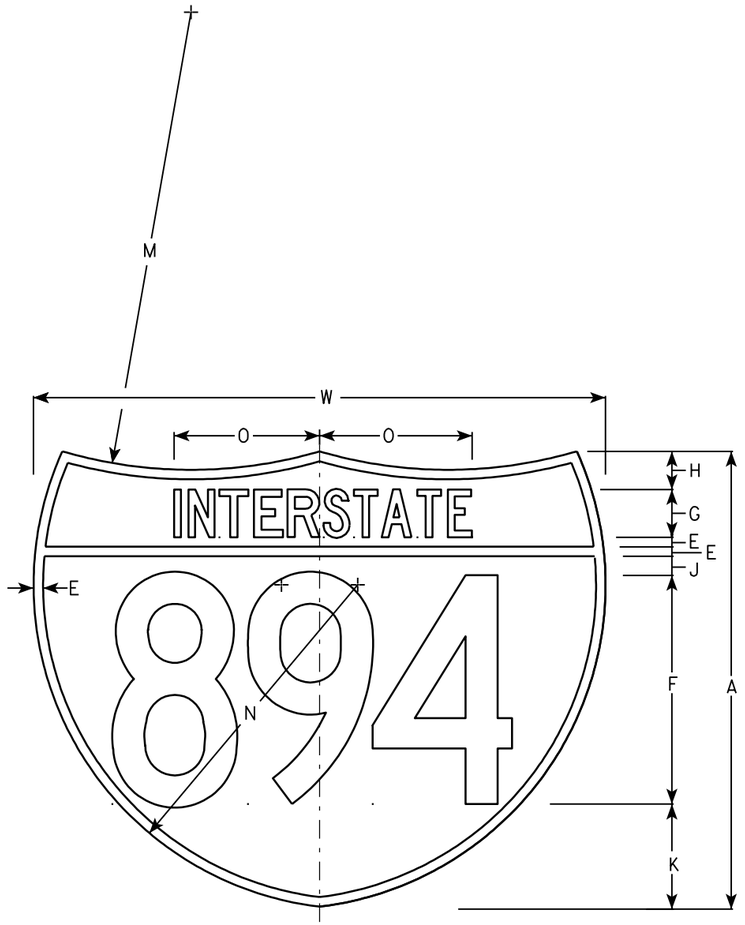
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/11/10 PLATE NO. E5-1A.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 311 | E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

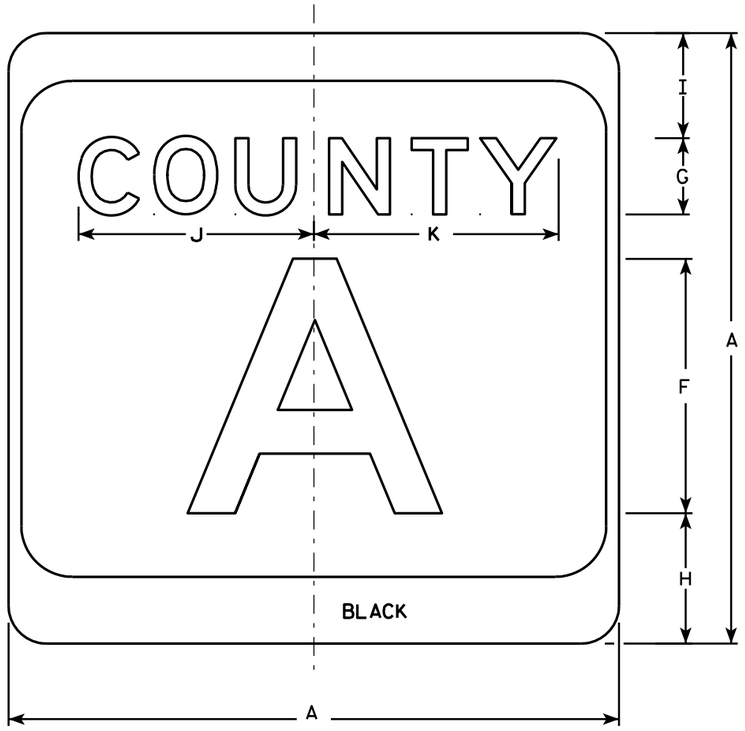
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

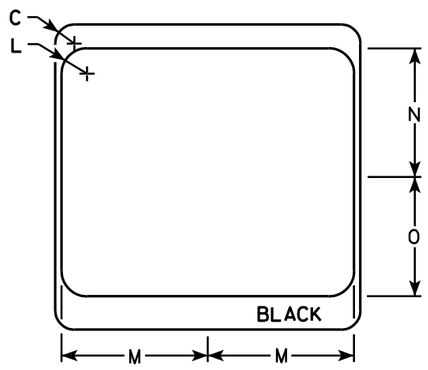
APPROVED Matthew R Rauch
for State Traffic Engineer

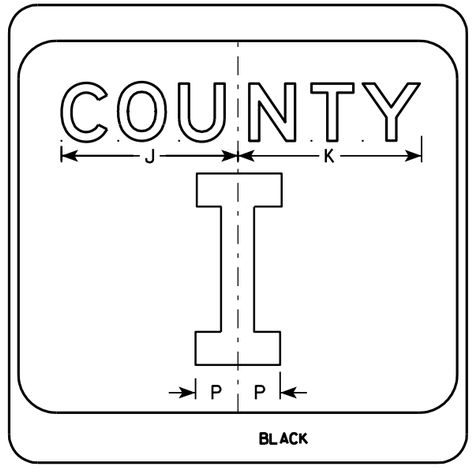
DATE 08/23/05 PLATE NO. M1-1.8

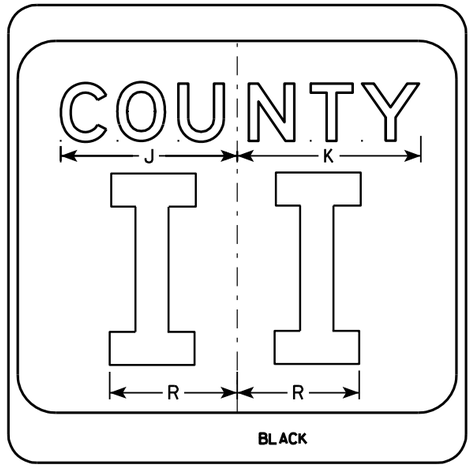
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 312	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

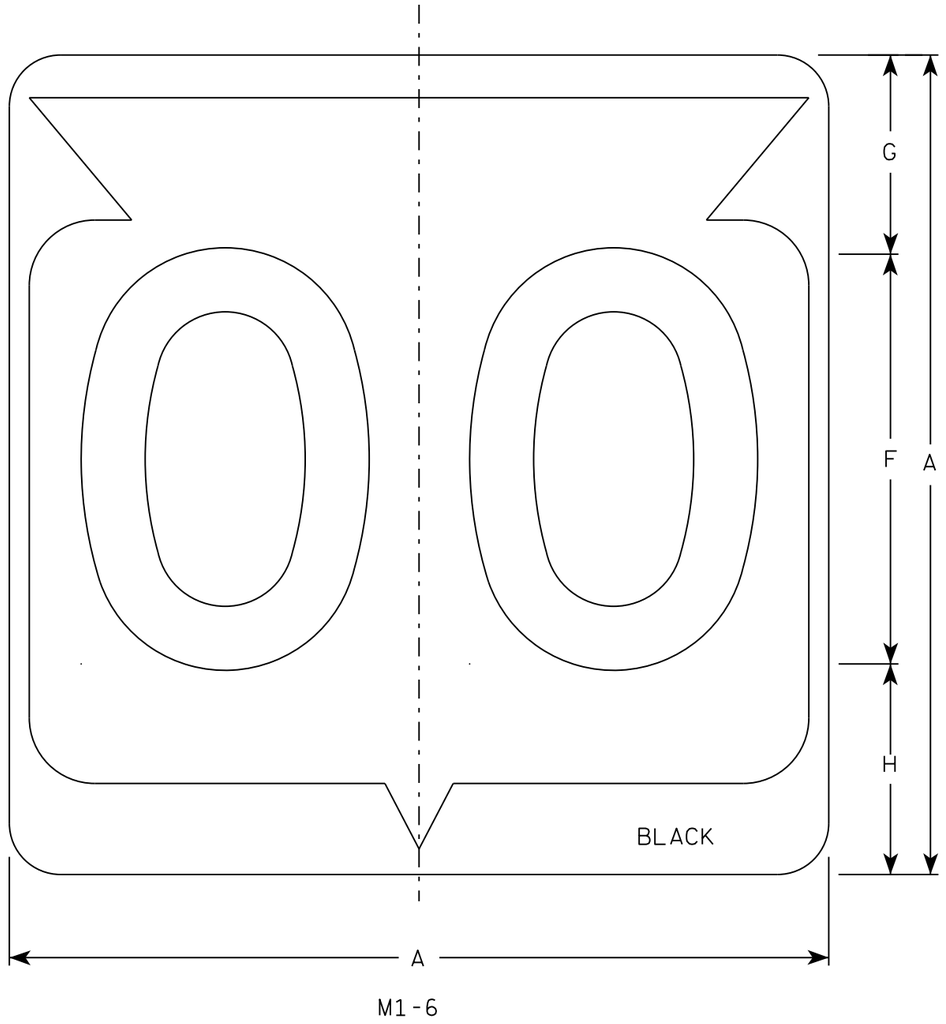
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

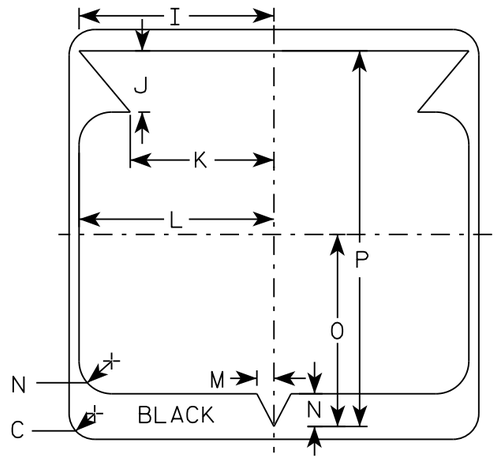
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 313 | E



M1-6

NOTES

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



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

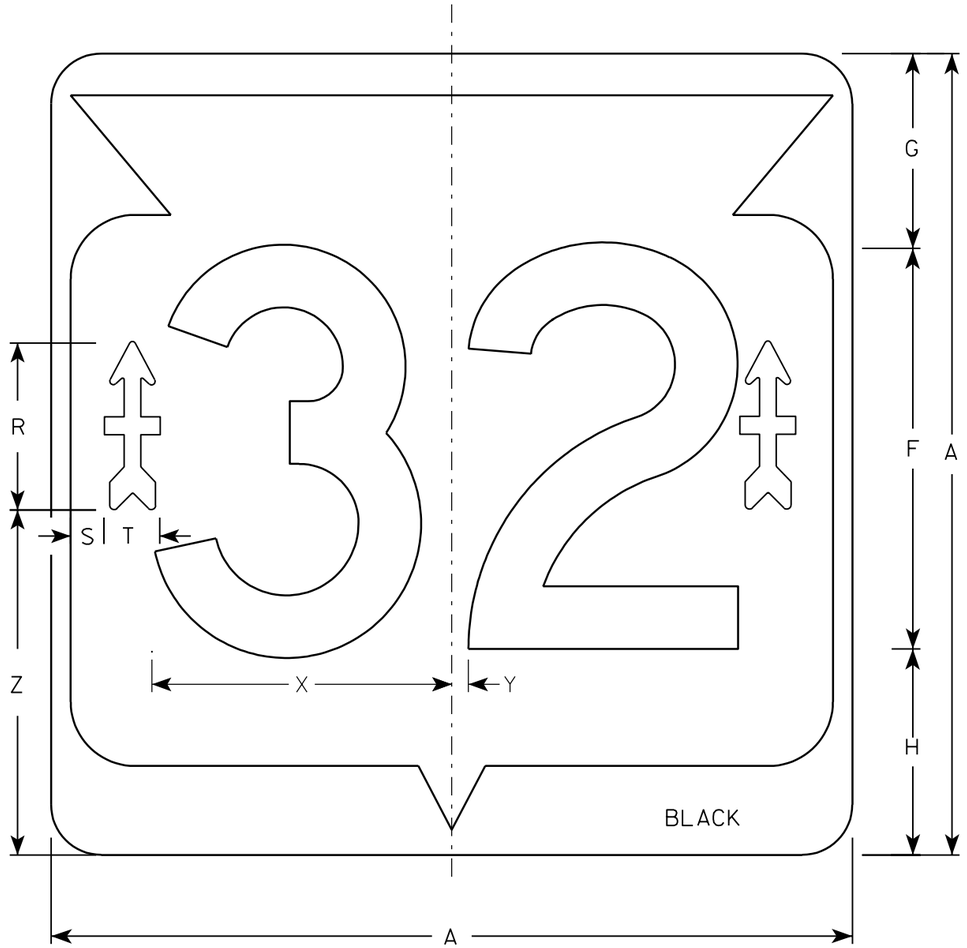
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

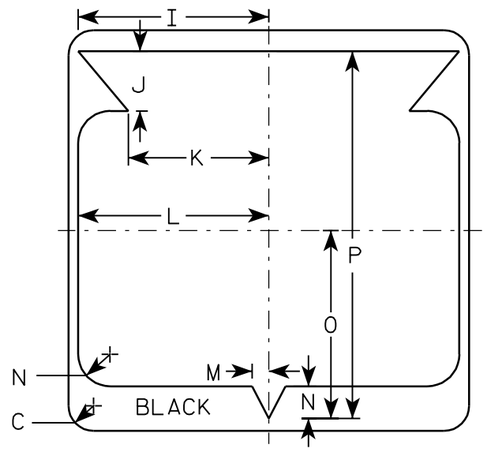
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 314 | E



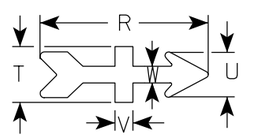
M1-6B

NOTES

1. Sign is Type II - Type H - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black
   Message - Black
   Arrow - Type H Reflective Red
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.



32nd DIVISION ARROW
ACTUAL SIZE



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
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		5 1/8	3/4	1 7/8	1 1/2	5/8	5/8	9	1/2	10 1/2	4.0	.36
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		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 1/2	3/4	15 1/2	9.0	.81
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		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 1/2	3/4	15 1/2	9.0	.81
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		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 1/2	3/4	15 1/2	9.0	.81

STATE ROUTE MARKER "32"
M1-6B FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 12/5/05 PLATE NO. M1-6B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 315 | E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Graphics - White
   Circle Tour Message is Green
3. Message Series - Special
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.	Area m2
1																												
2	24			1 1/8	1/2																						4.0	.36
3																												
4	36			1 5/8	3/4																						9.0	.81
5																												

STANDARD SIGN
M1-93

WISCONSIN DEPT OF TRANSPORTATION

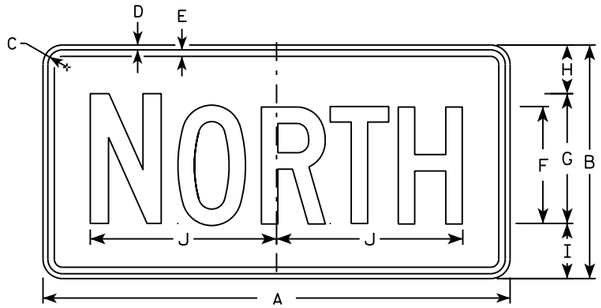
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/5/15 PLATE NO. M1-93.2

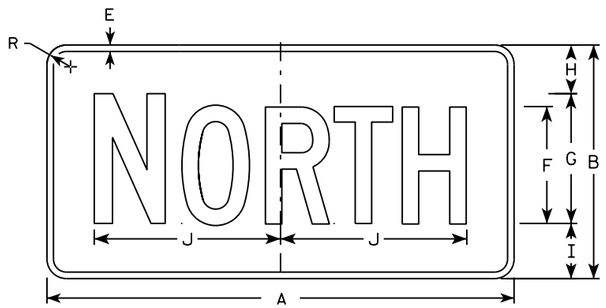
316

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M193.DGN PLOT DATE : 01-DEC-2015 18:00 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



M3-1
MM3-1
MP3-1



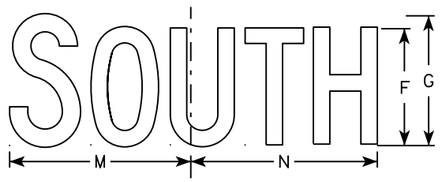
MB3-1
MK3-1
MN3-1



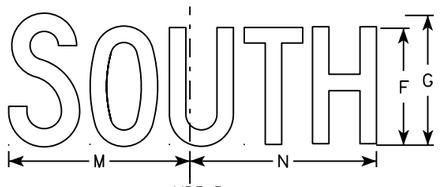
M3-2
MM3-2
MP3-2



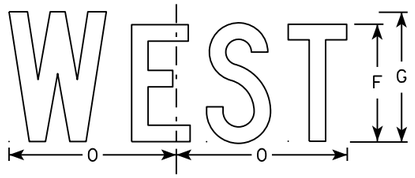
MB3-2
MK3-2
MN3-2



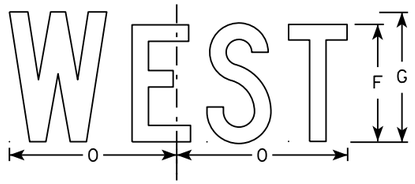
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

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

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

STANDARD SIGNS
M3-1 thur M3-4
SERIES

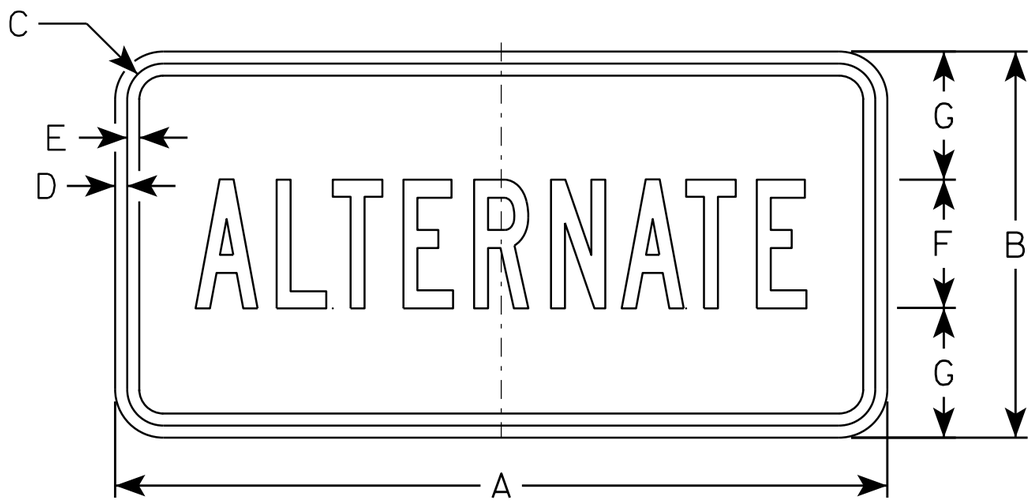
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

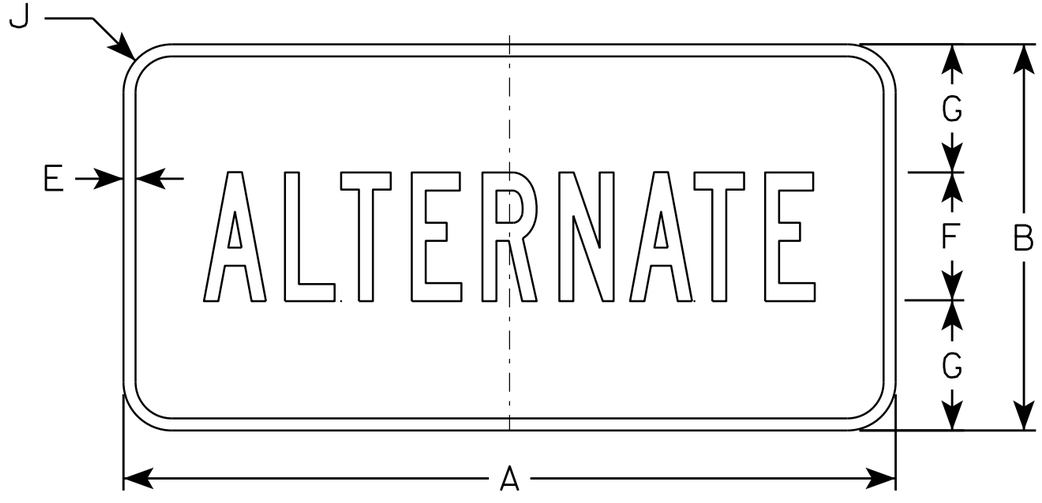
DATE 10/15/15 PLATE NO M3-1.14

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-1
M04-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   M04-1 Background - Orange - Type F
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

STANDARD SIGN
M4-1

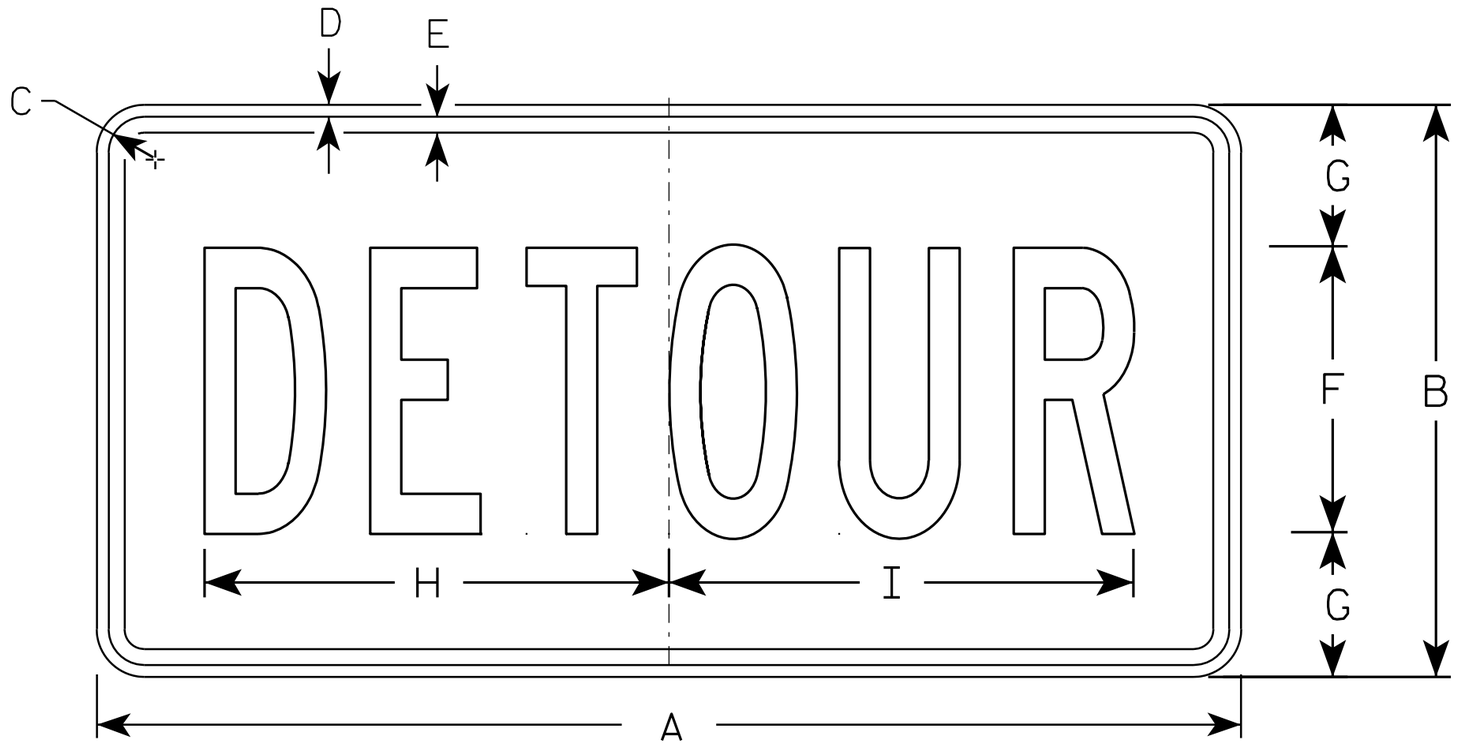
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE 14-1.8

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M41.DGN PLOT DATE : 30-JUN-2014 15:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 4.708937:1.000000
WISDOT/CADDS SHEET 42



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

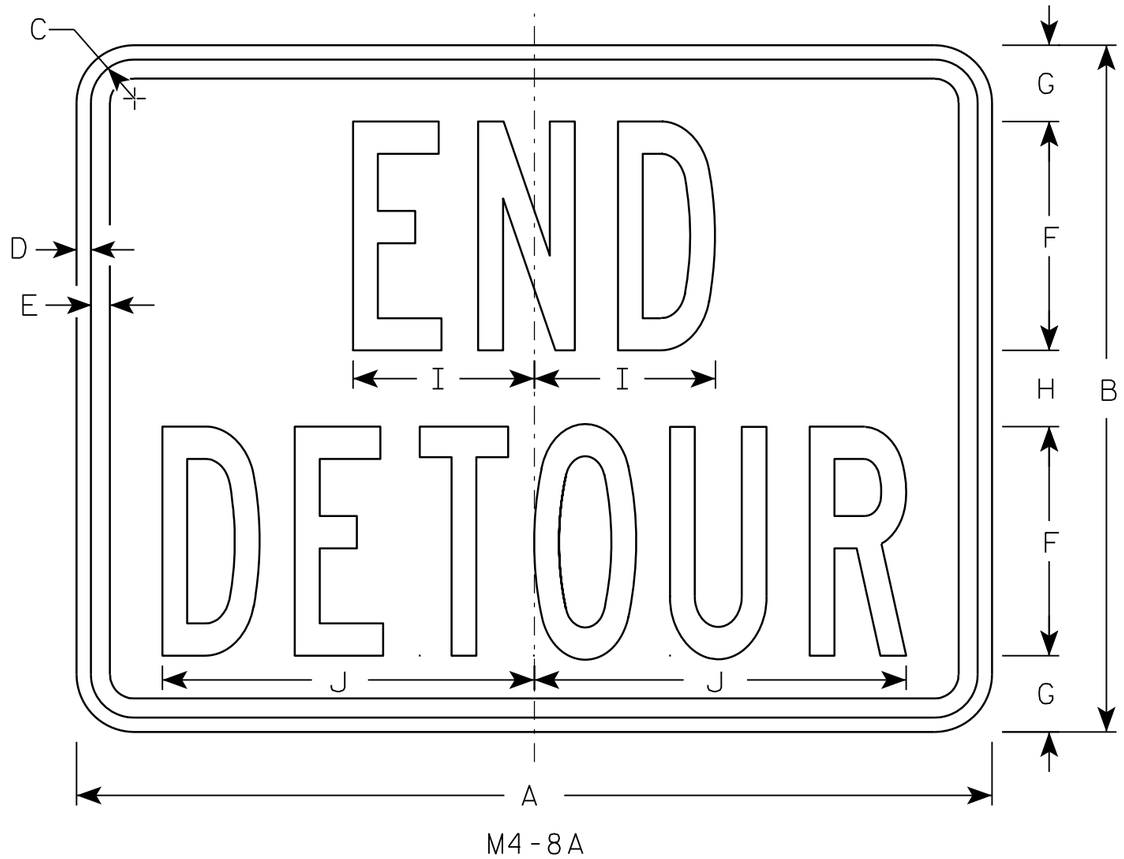
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 319	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

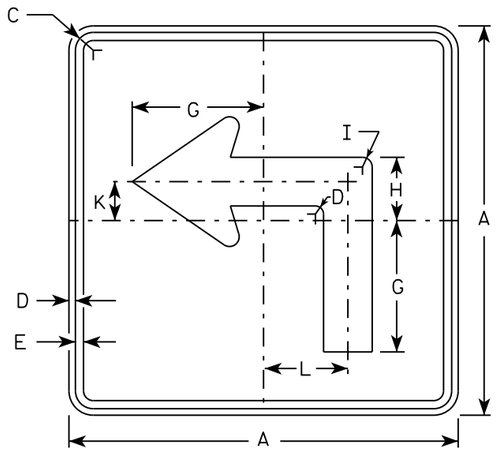
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

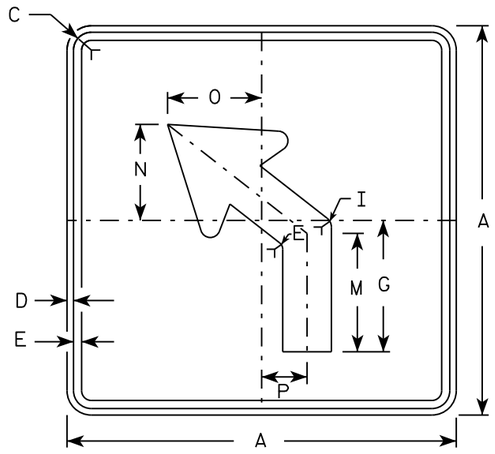
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

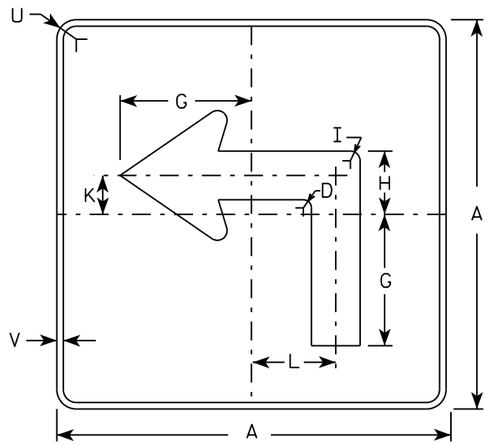
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 320	E



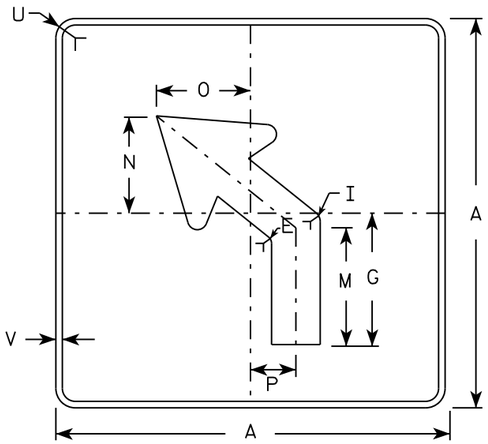
M5-1L
MM5-1L
MO5-1L
MP5-1L



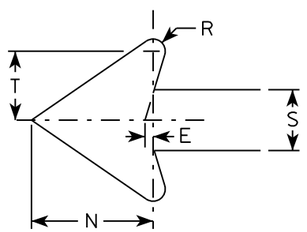
M5-2L
MM5-2L
MO5-2L
MP5-2L



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



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



NOTES

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

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

STANDARD SIGN
M5-1 & M5-2

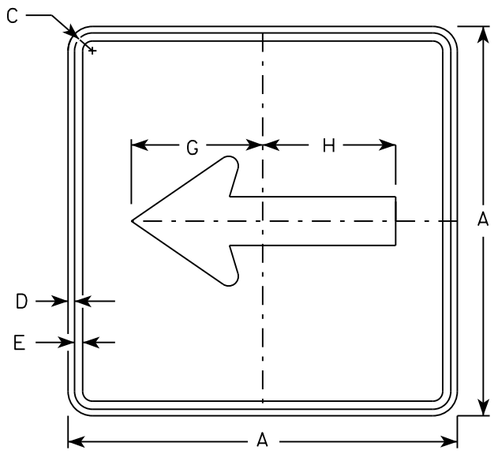
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

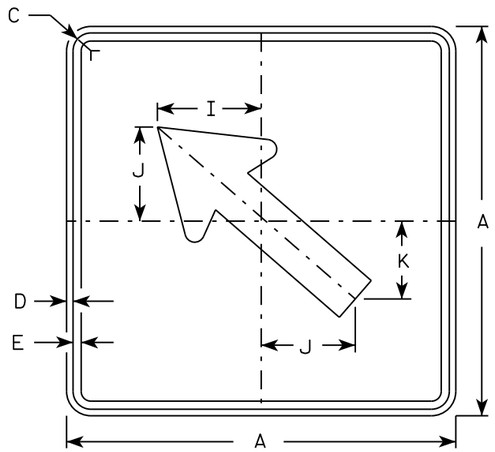
DATE 10/15/15 PLATE NO. M5-1.13

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



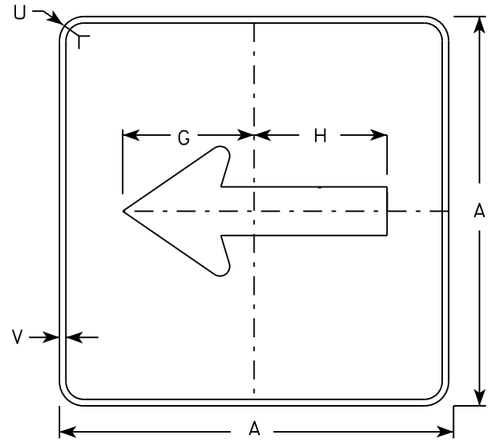
M6-1
MM6-1
MO6-1
MP6-1



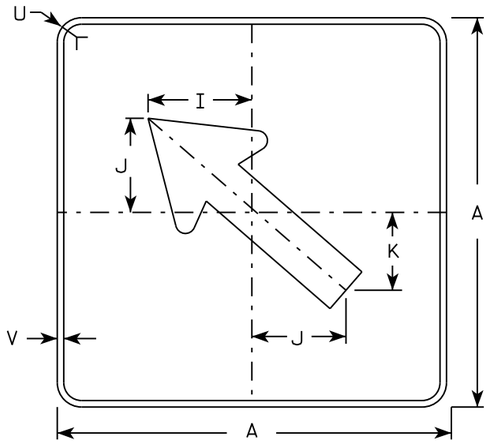
M6-2
MM6-2
MO6-2
MP6-2

NOTES

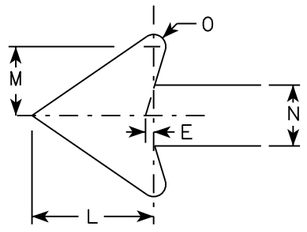
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background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



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



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



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

STANDARD SIGN
M6-1 & M6-2
SERIES

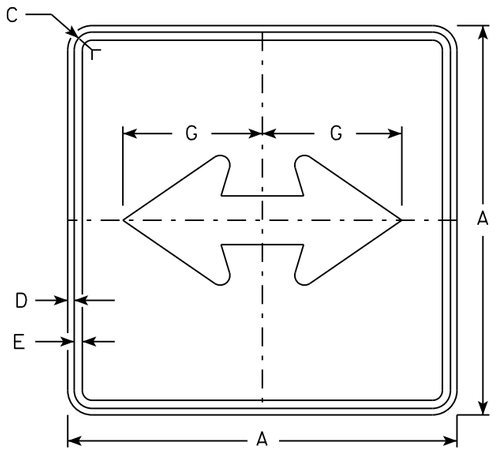
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

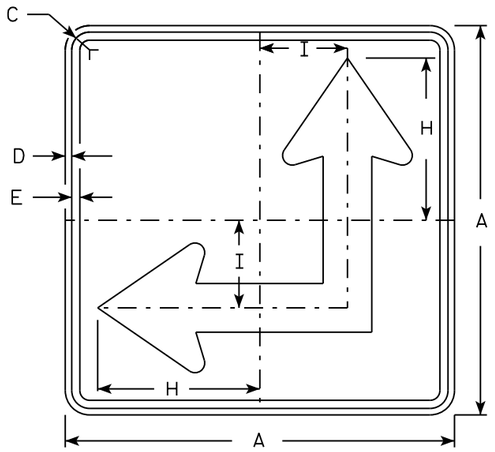
DATE 10/15/15 PLATI 322 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



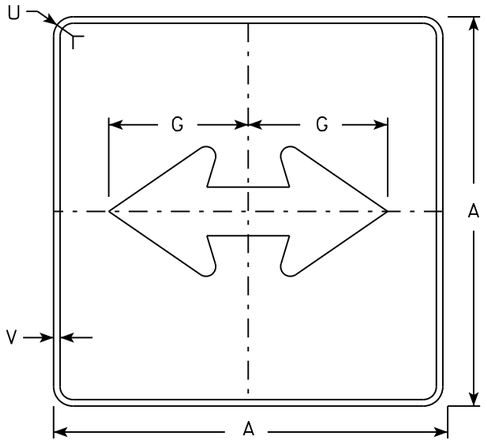
M6-4
MM6-4
MO6-4
MP6-4



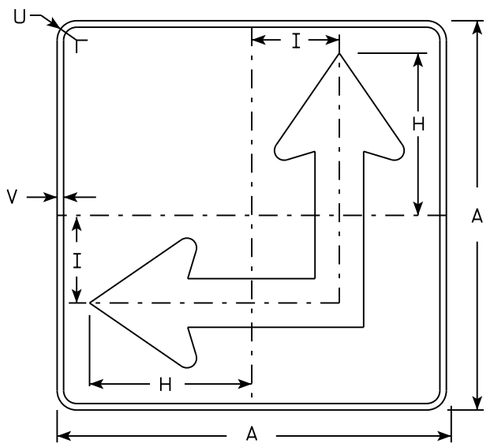
M6-6
MM6-6
MO6-6
MP6-6

NOTES

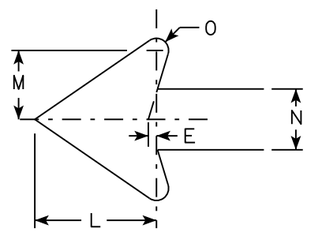
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

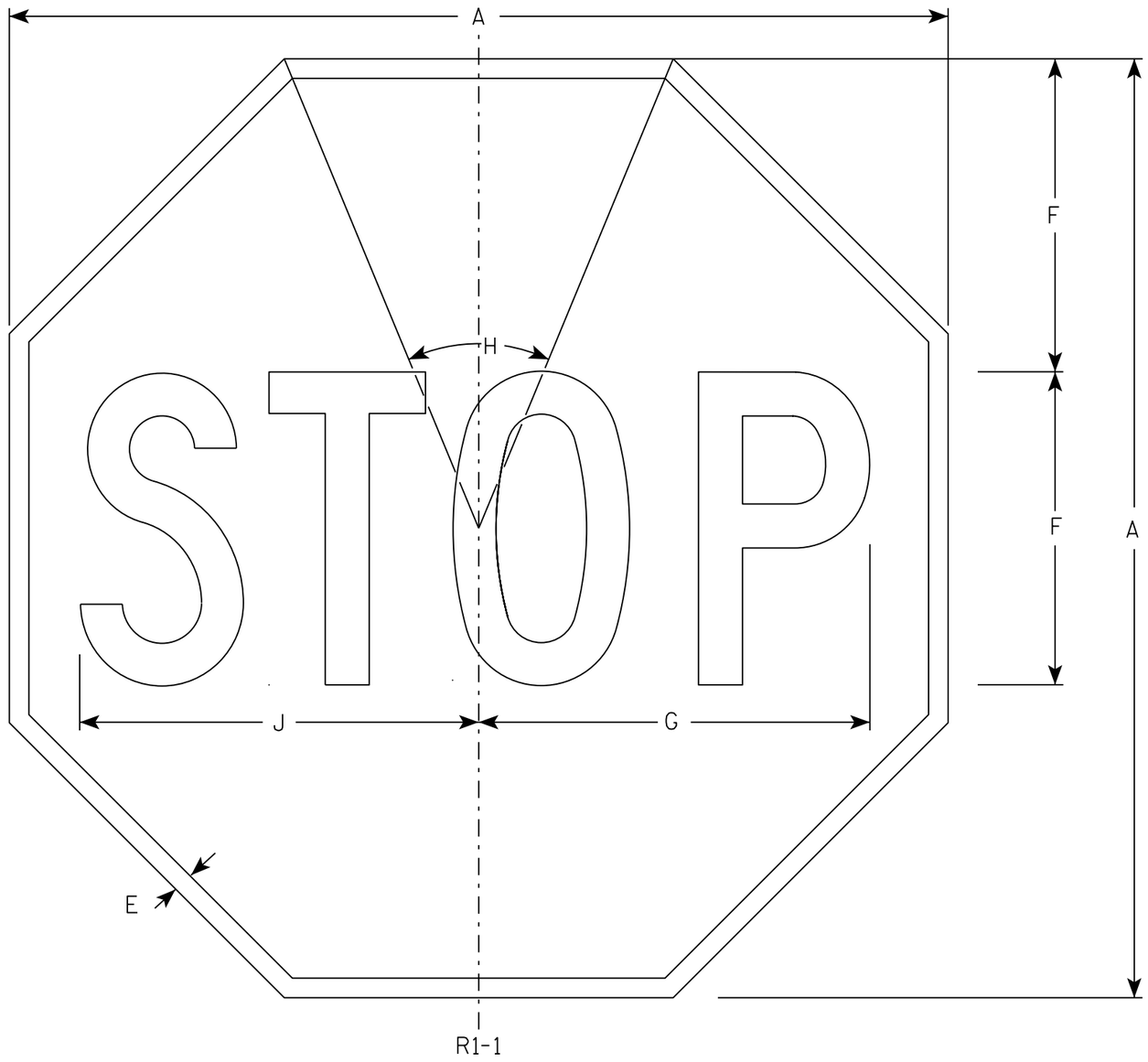
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 323 M6-4.10

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

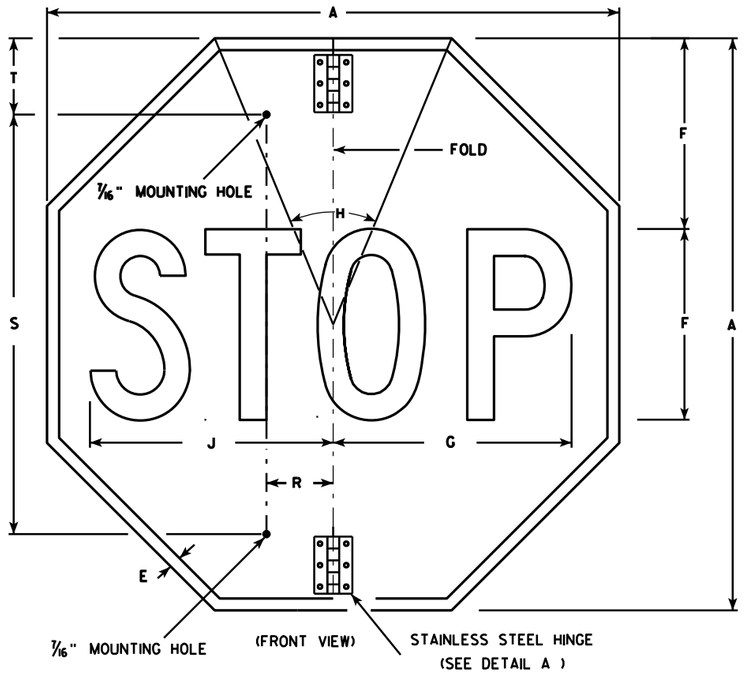
R1-1

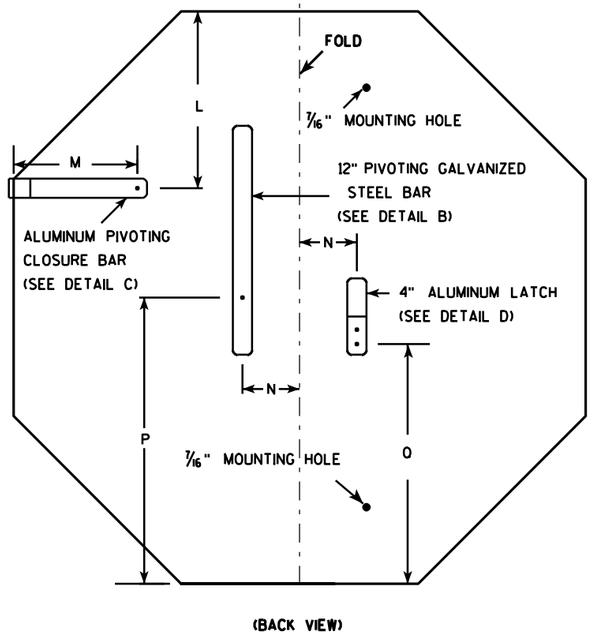
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

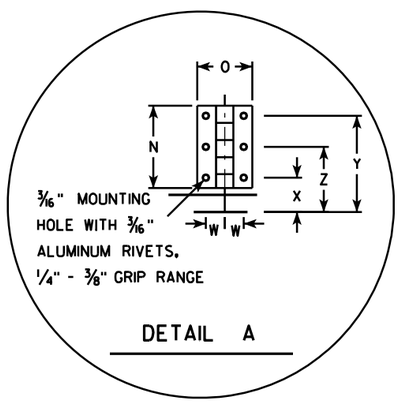
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 324	E



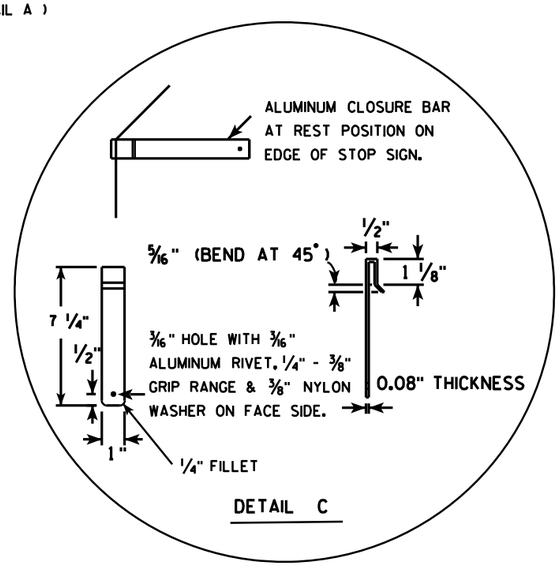


NOTES

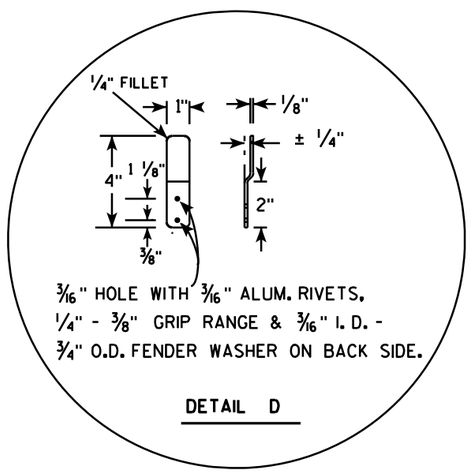
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



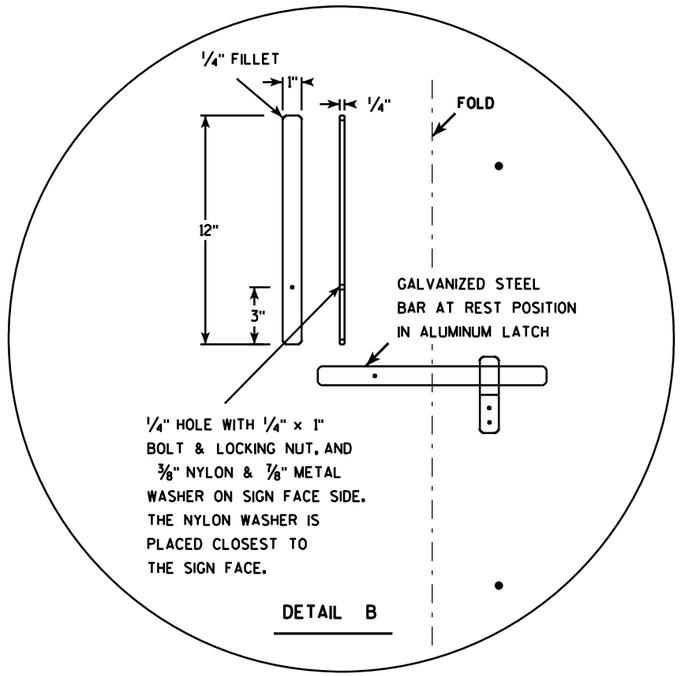
DETAIL A



DETAIL C



DETAIL D



DETAIL B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

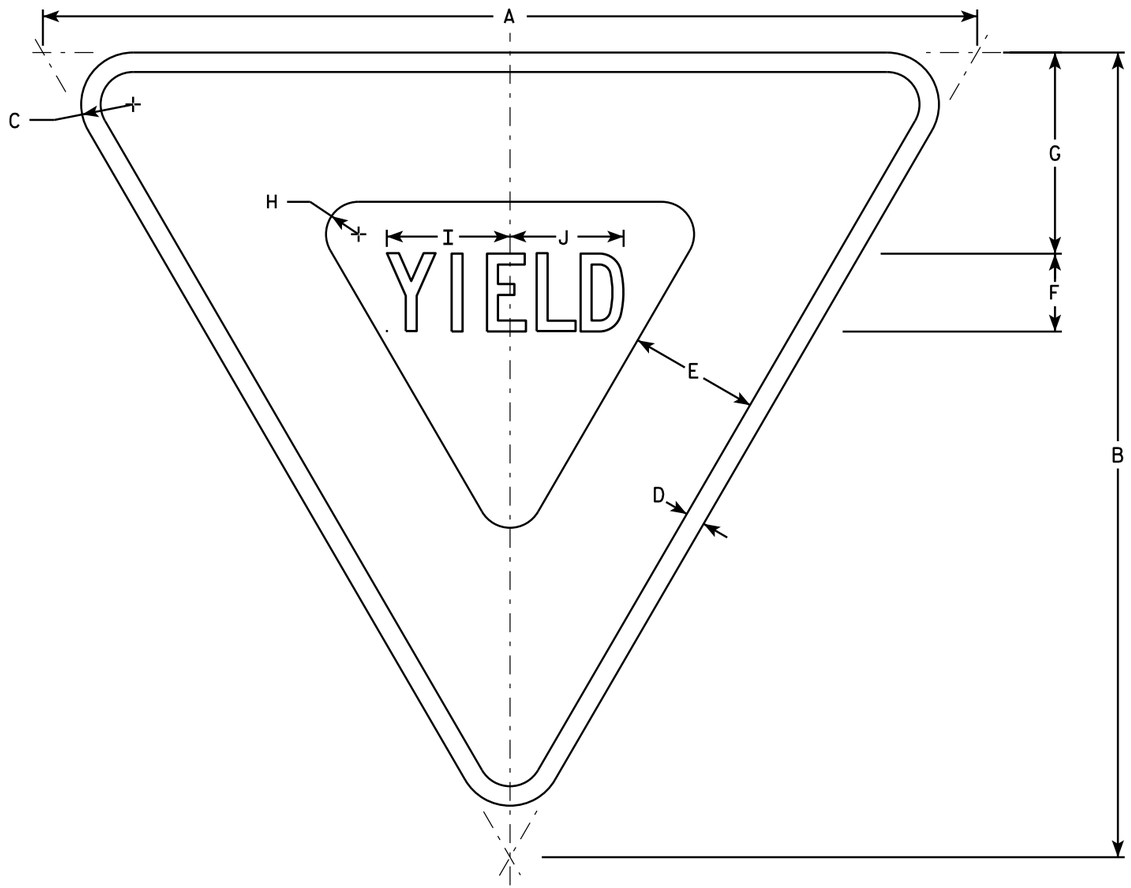
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 325	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 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. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

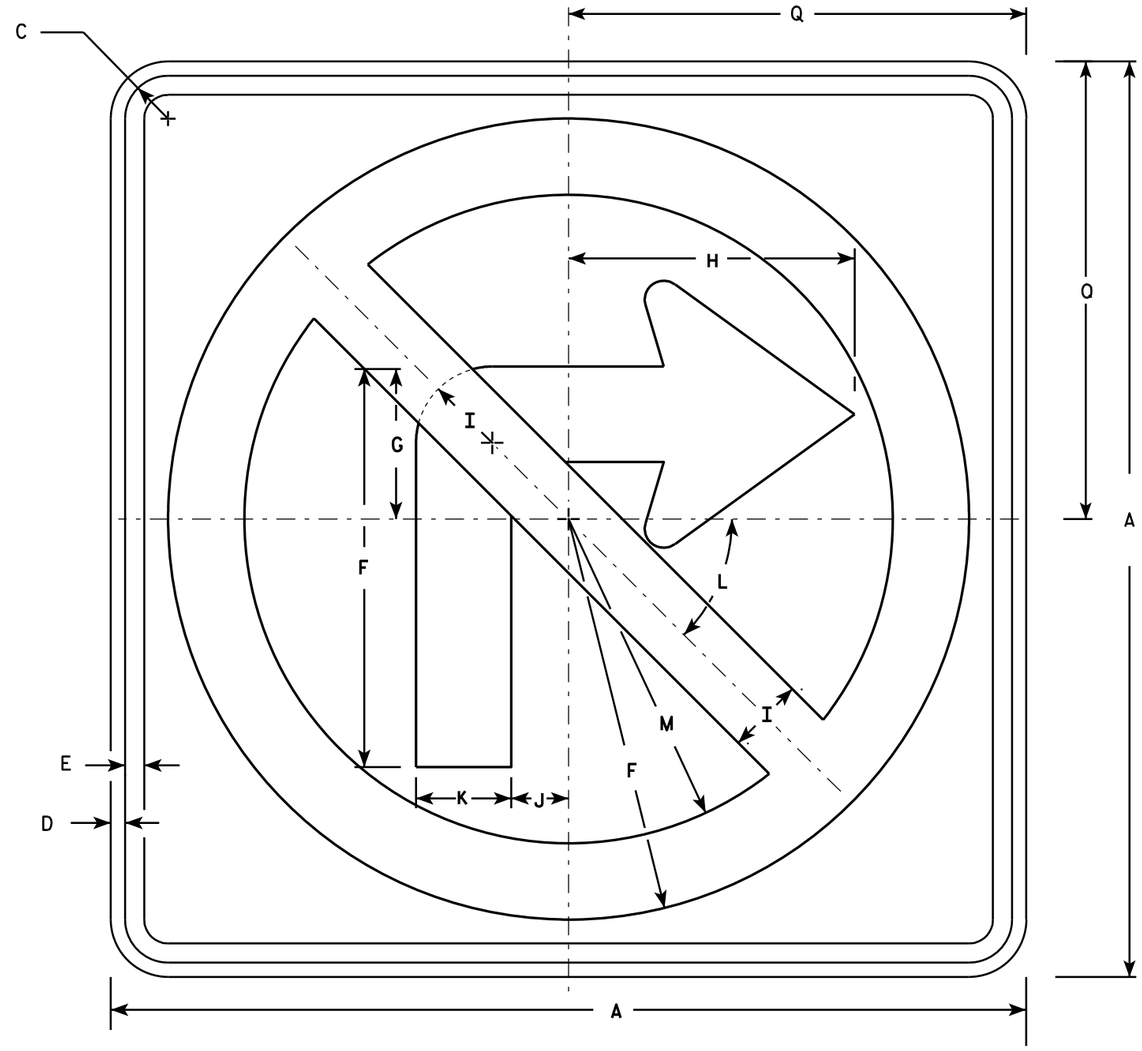
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

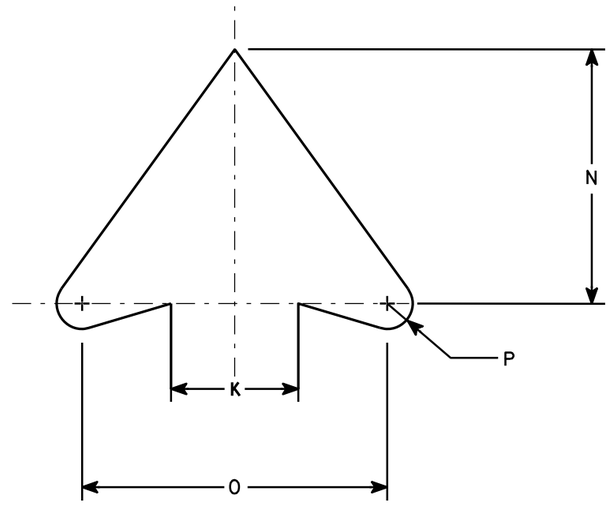
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

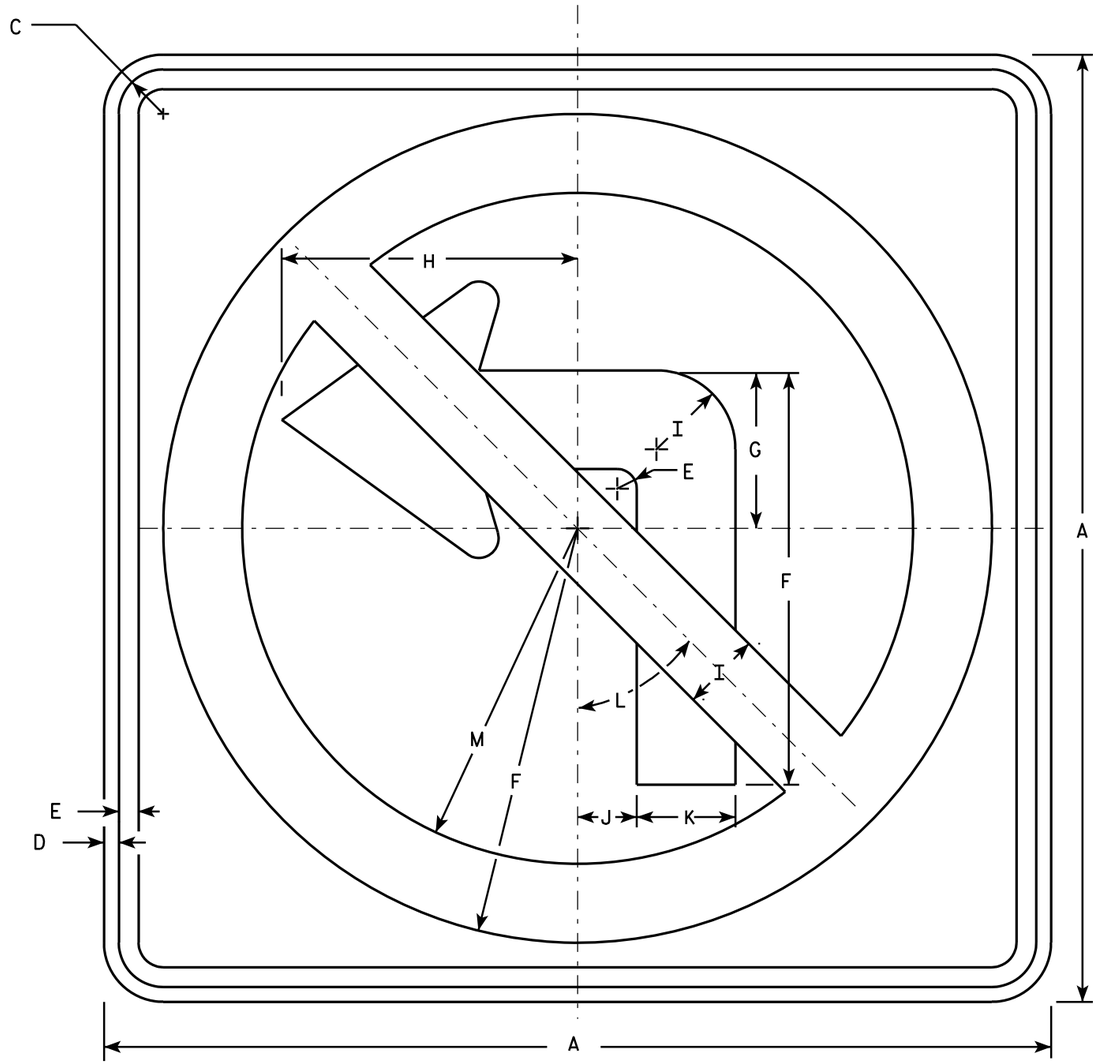
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

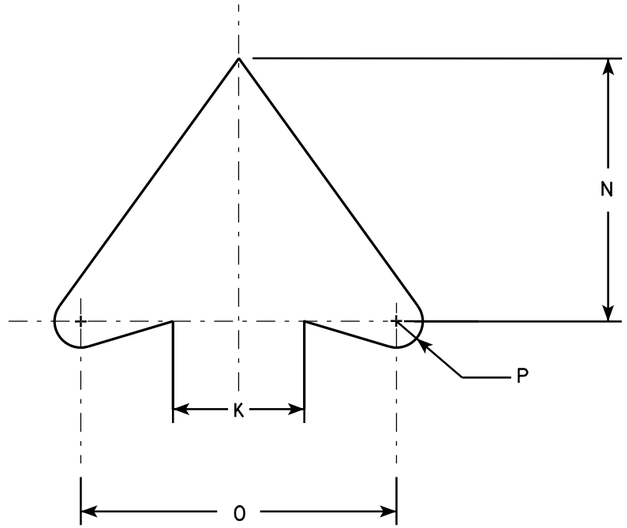
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 327	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

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

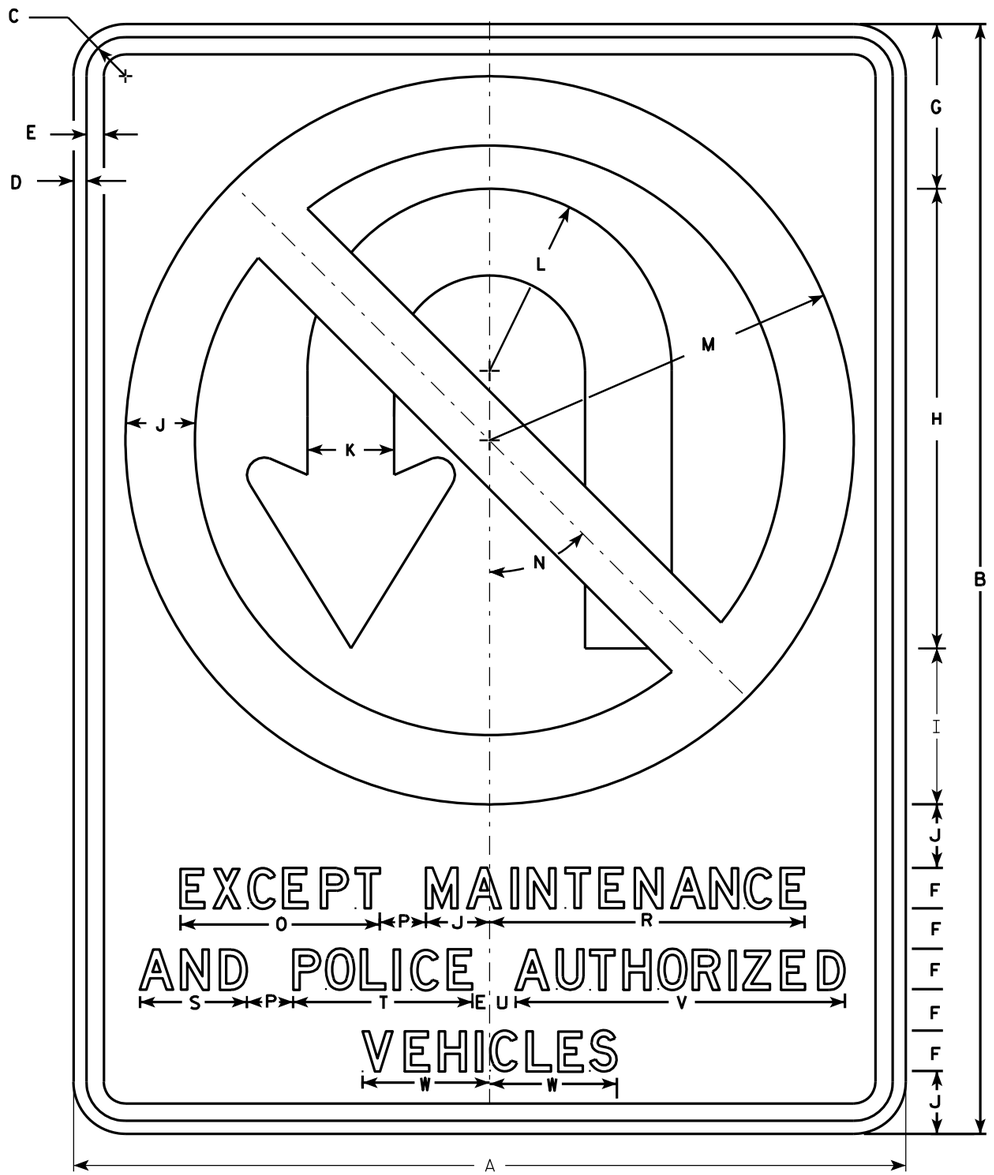
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

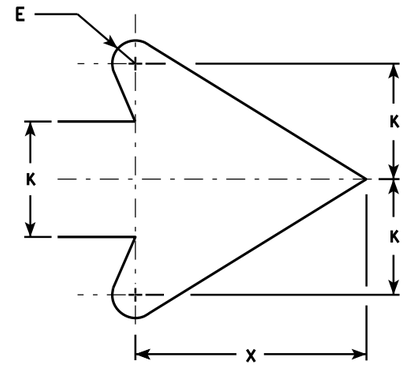
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 328	E



R3-4B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0
5	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0

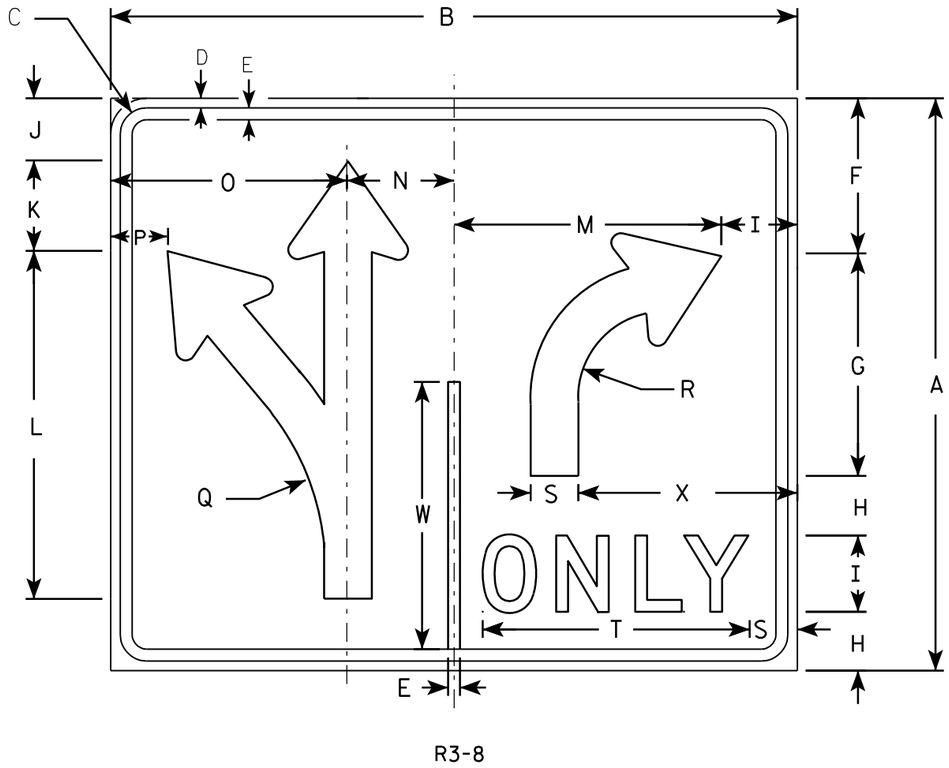
STANDARD SIGN
R3-4B

WISCONSIN DEPT OF TRANSPORTATION

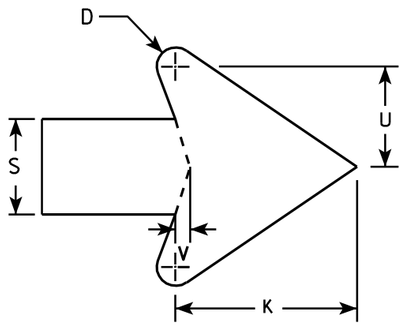
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-4B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 329	E



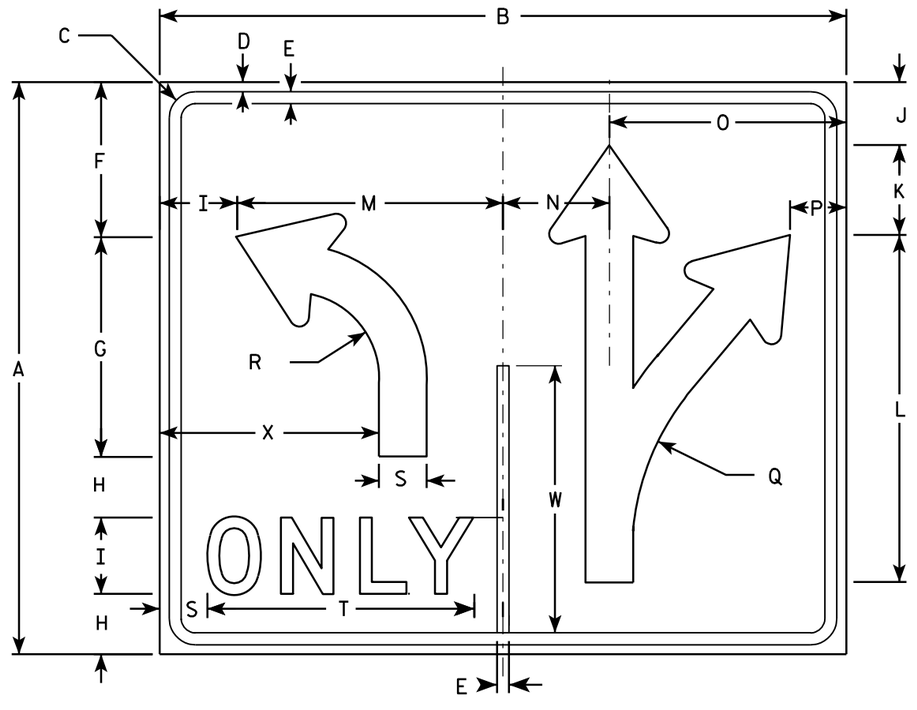
R3-8



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-8A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0

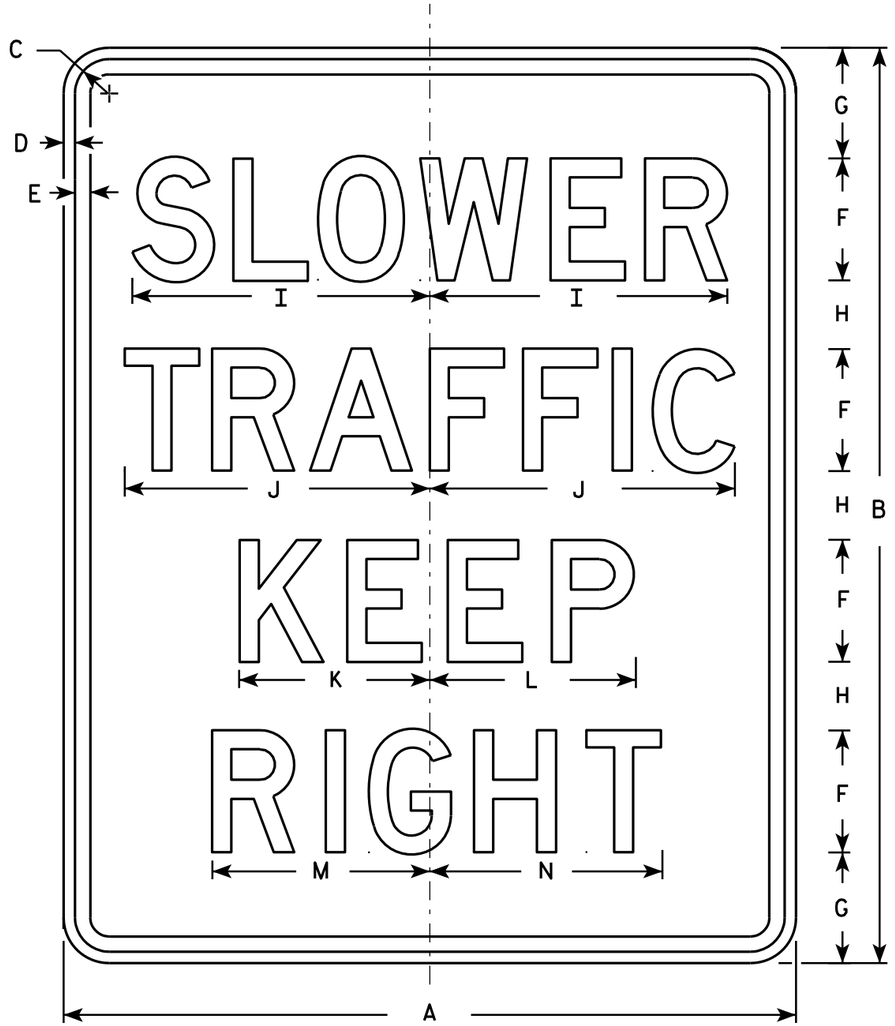
STANDARD SIGN
R3-8 & R3-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 330	E



R4-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN
R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

PROJECT NO:

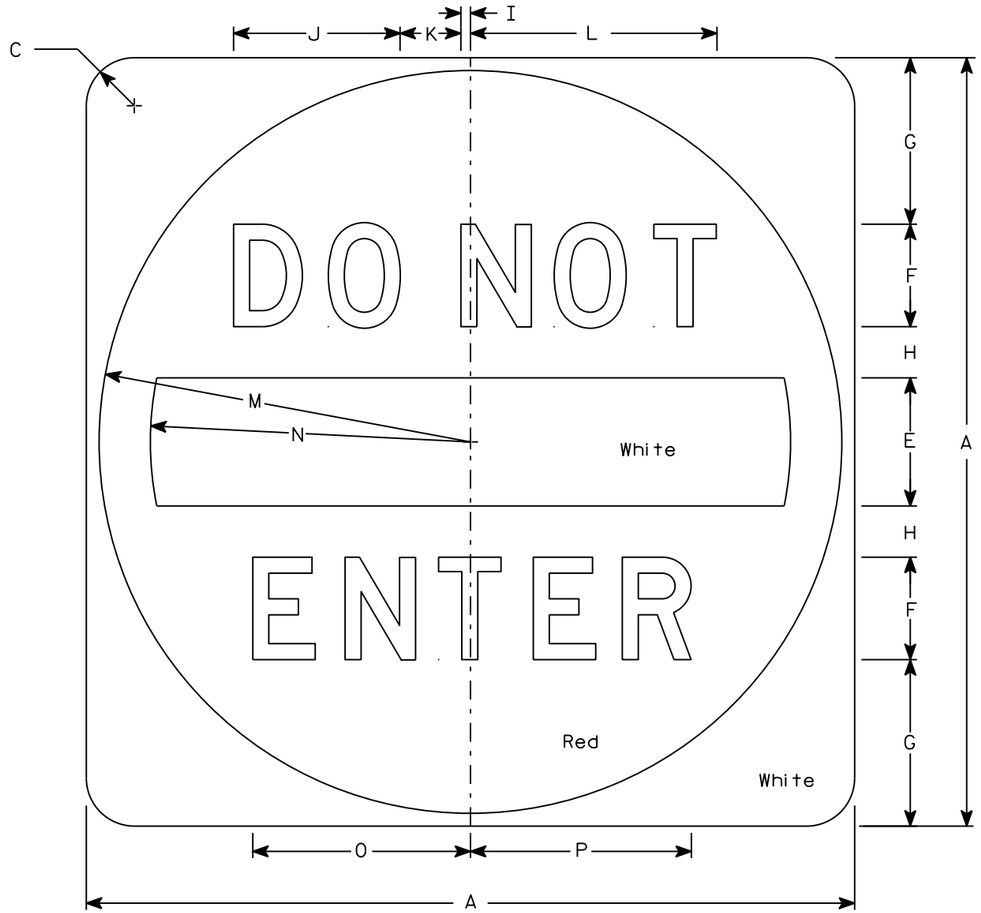
SHEET NO: 331 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R43.DGN PLOT DATE : 25-MAR-2011 13:40 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

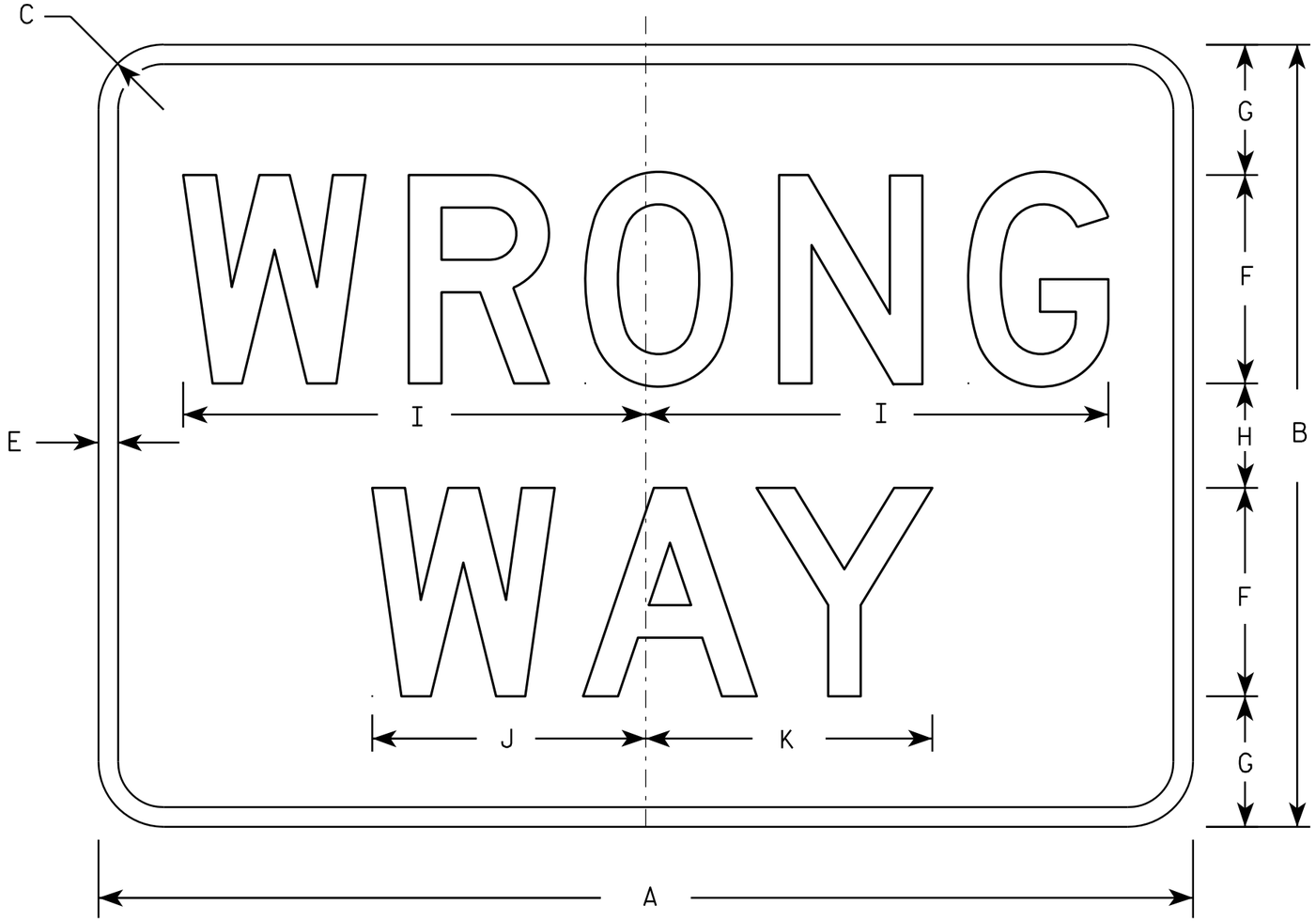
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 332 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

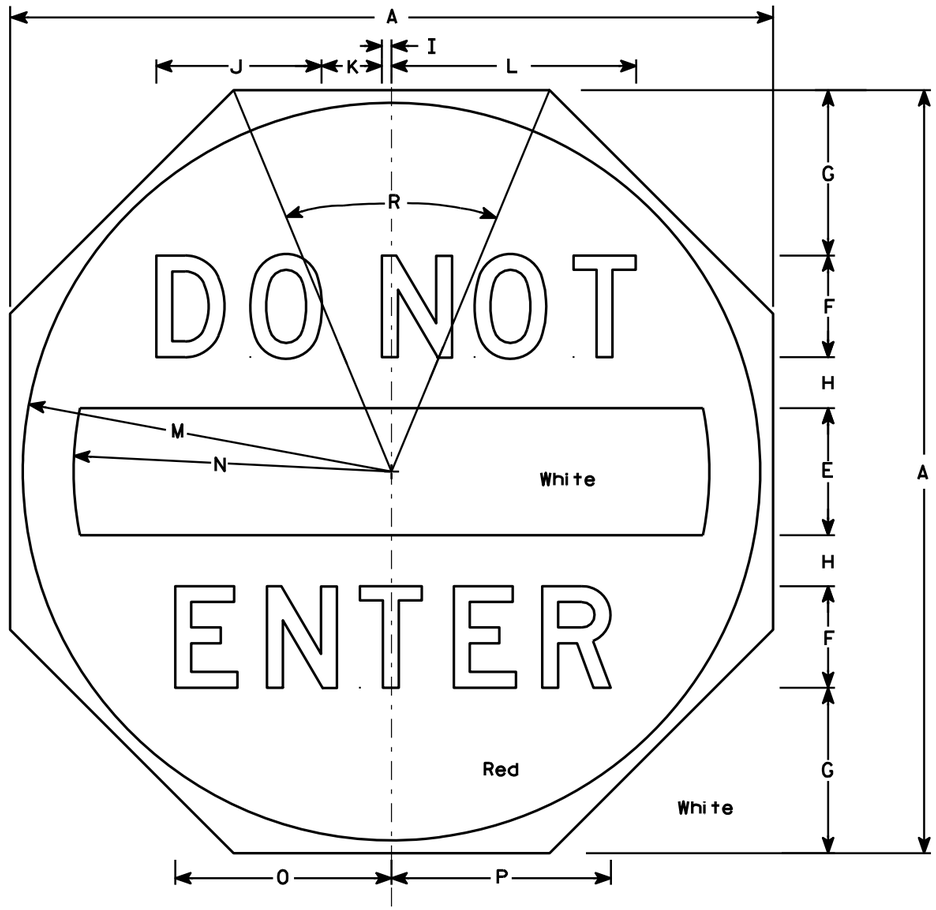
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 333	E



R5-1C

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8		45°									5.18
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4		45°									7.46
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4		45°									7.46
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4		45°									13.25
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8		45°									13.25

STANDARD SIGN
R5-1C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer

DATE 3/23/11 PLATE NO. R5-1C.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 334 | E



R5-57

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Lines 1, 2, and 5 are Series C.
   Lines 3 and 4 are 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																											
2S																											
2M																											
3																											
4	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0
5	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0

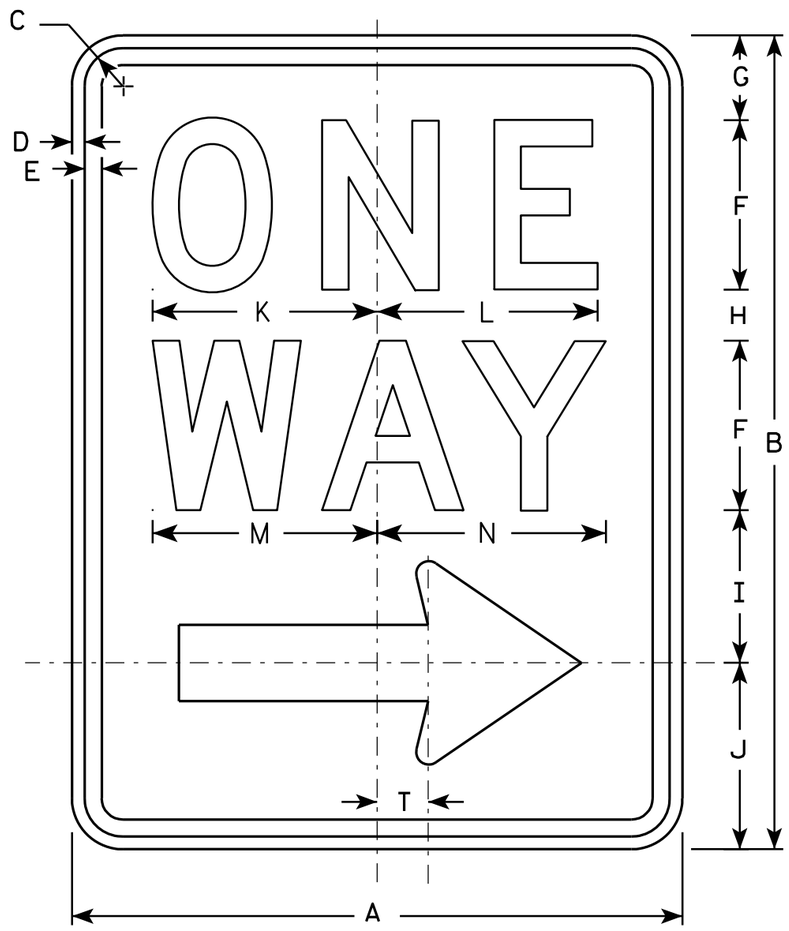
STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57.10

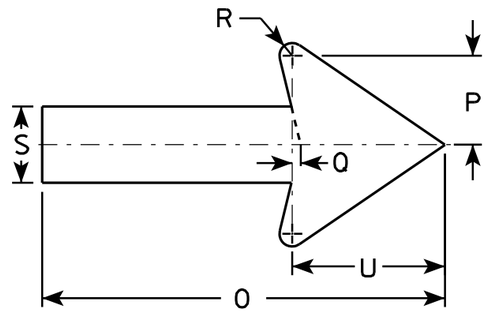
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 335 | E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

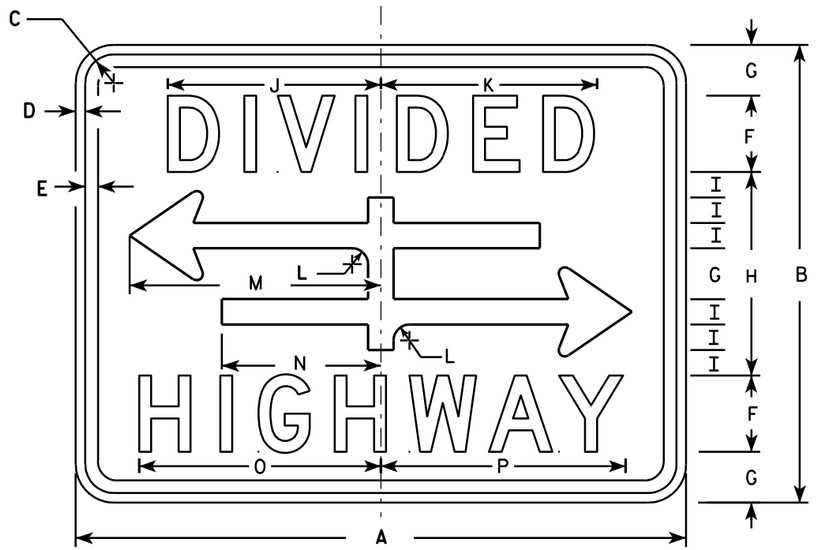
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

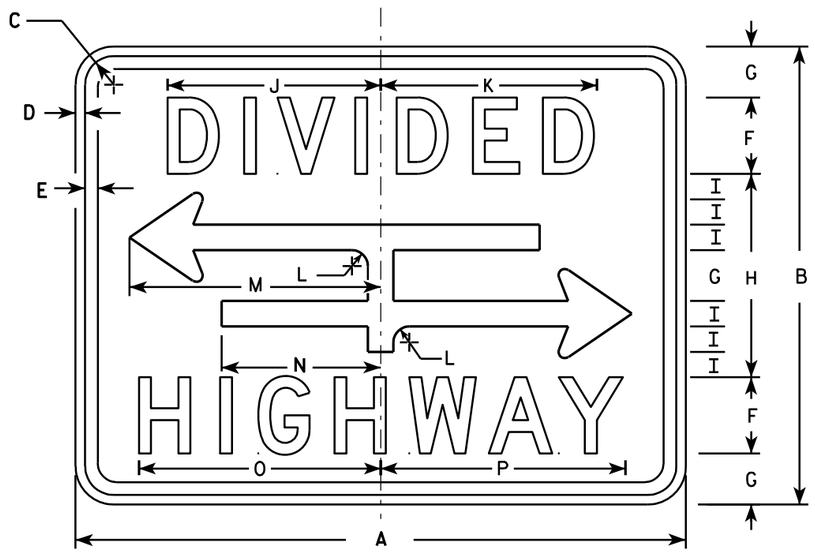
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 336	E



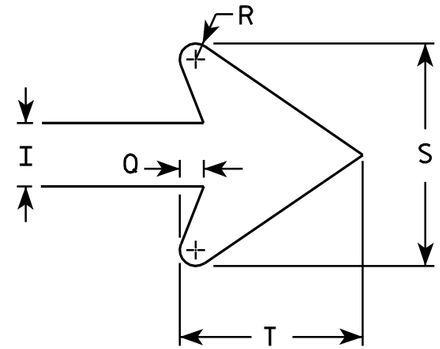
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

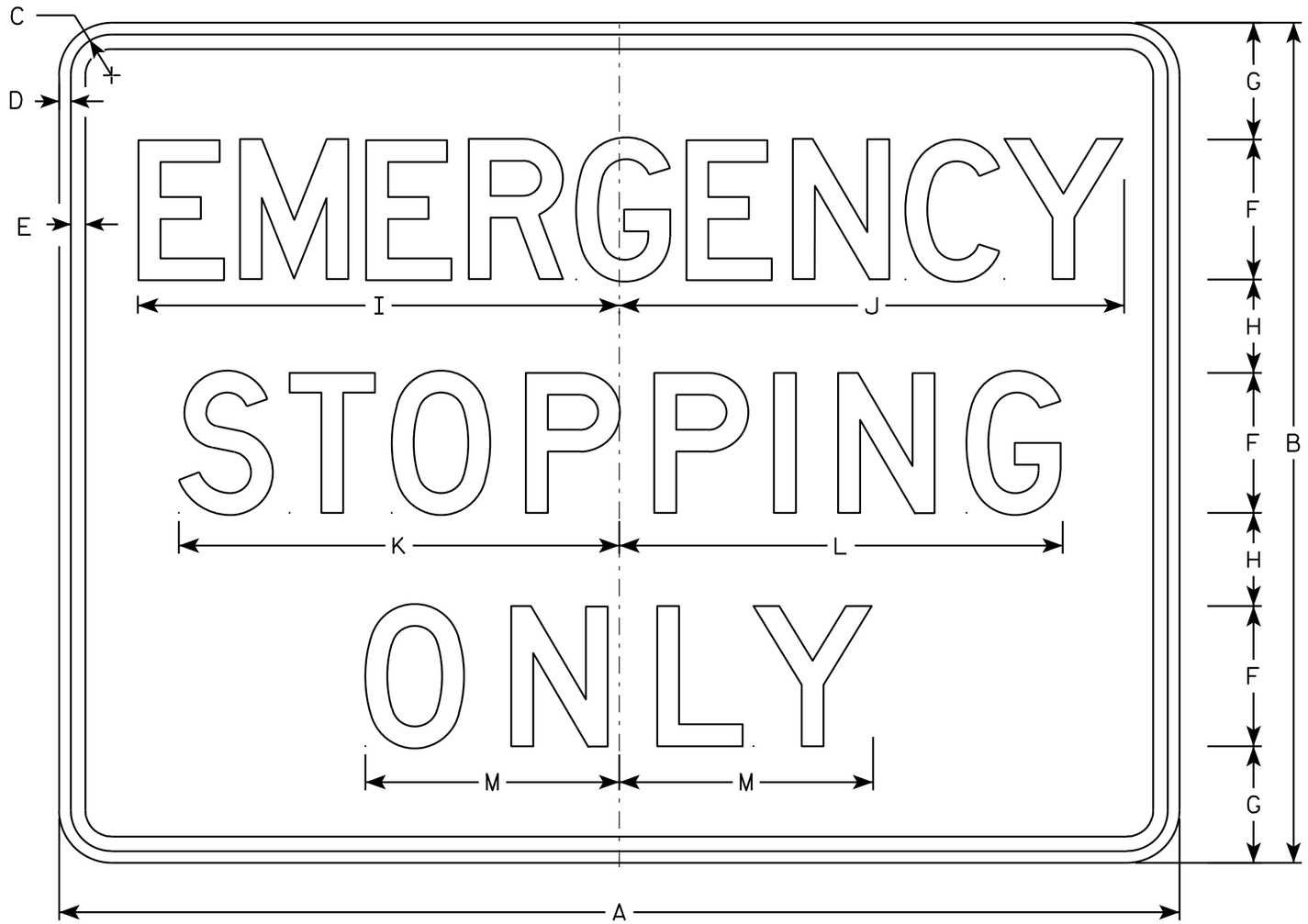
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

SHEET NO: 337 E



R8 - 7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	48	36	1 3/4	1/2	5/8	6	5	4	20 5/8	21 5/8	18 7/8	19	10 7/8														12.0
5	48	36	1 3/4	1/2	5/8	6	5	4	20 5/8	21 5/8	18 7/8	19	10 7/8														12.0

STANDARD SIGN
R8 - 7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

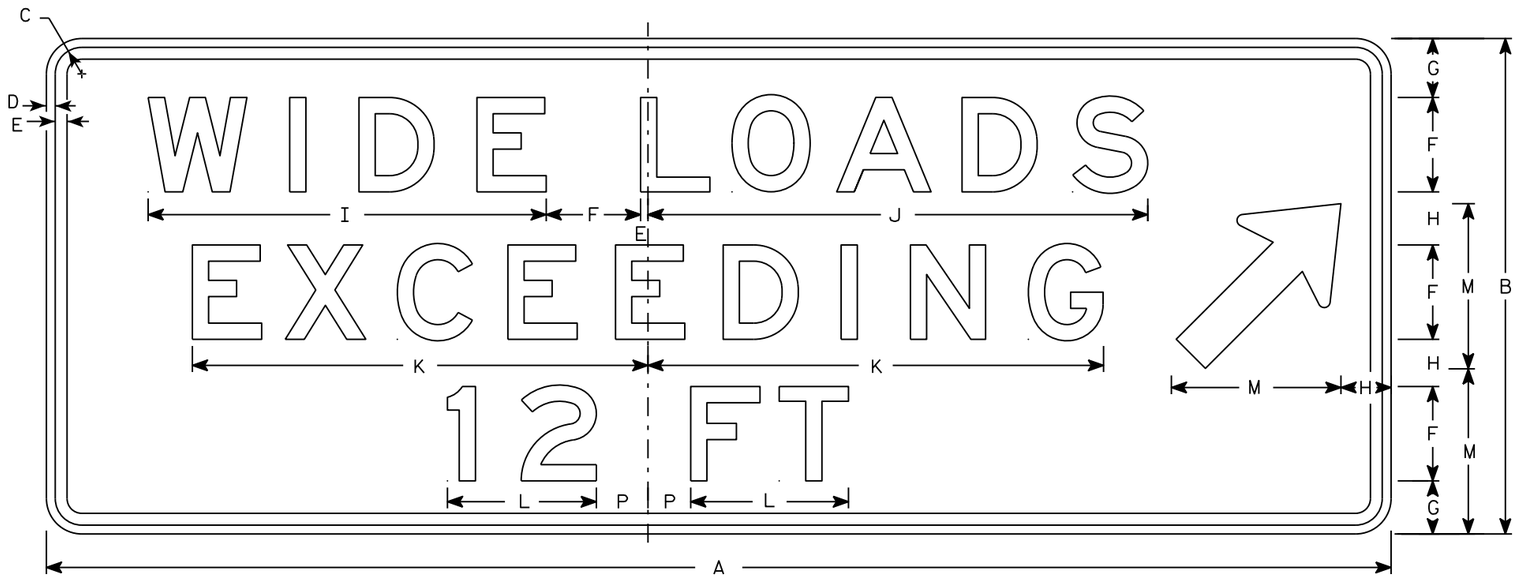
DATE 3/31/2011 PLATE NO. R8-7.6

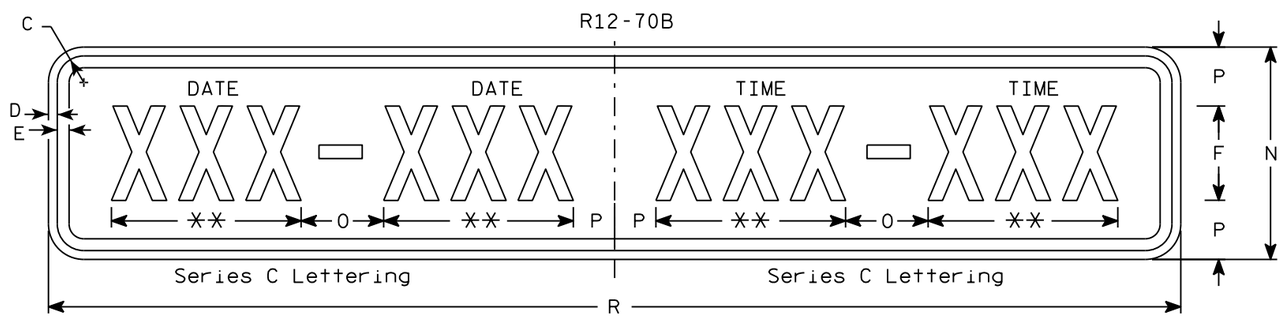
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 338 | E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E except as noted
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.

** Substitute appropriate message, optically center message





R12-70C

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	R12-70 Area sq. ft.	R12-70C Area sq. ft.
1																												
2S	90	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
2M	90	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
3																												
4	114	42	2 1/4	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0
5	114	42	2 1/4	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0

TYPICAL SIGN
R12-70B

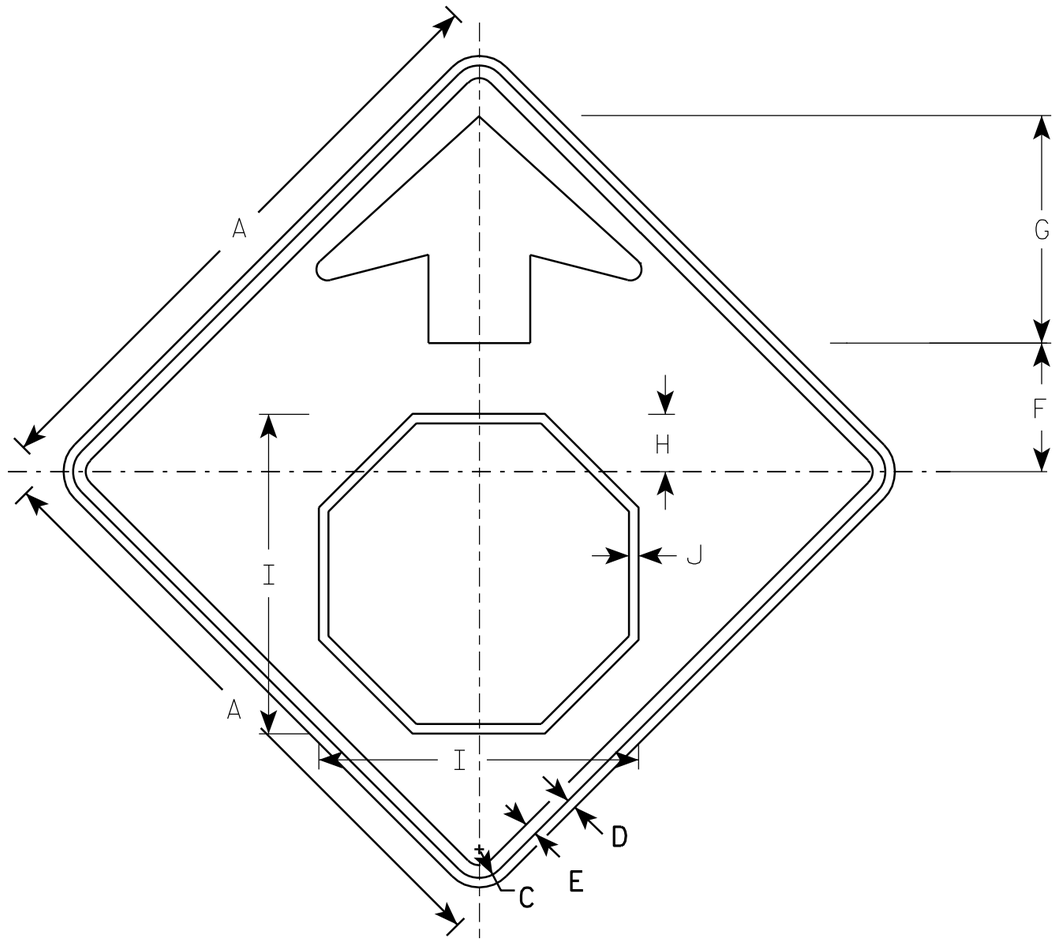
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/15 PLATE NO R12-70B.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

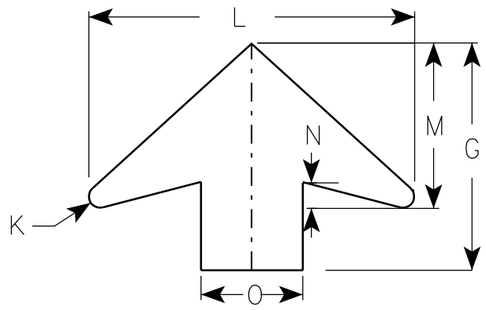
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R1270B.DGN PLOT DATE : 01-DEC-2015 18:10 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 12.842555:1.000000



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

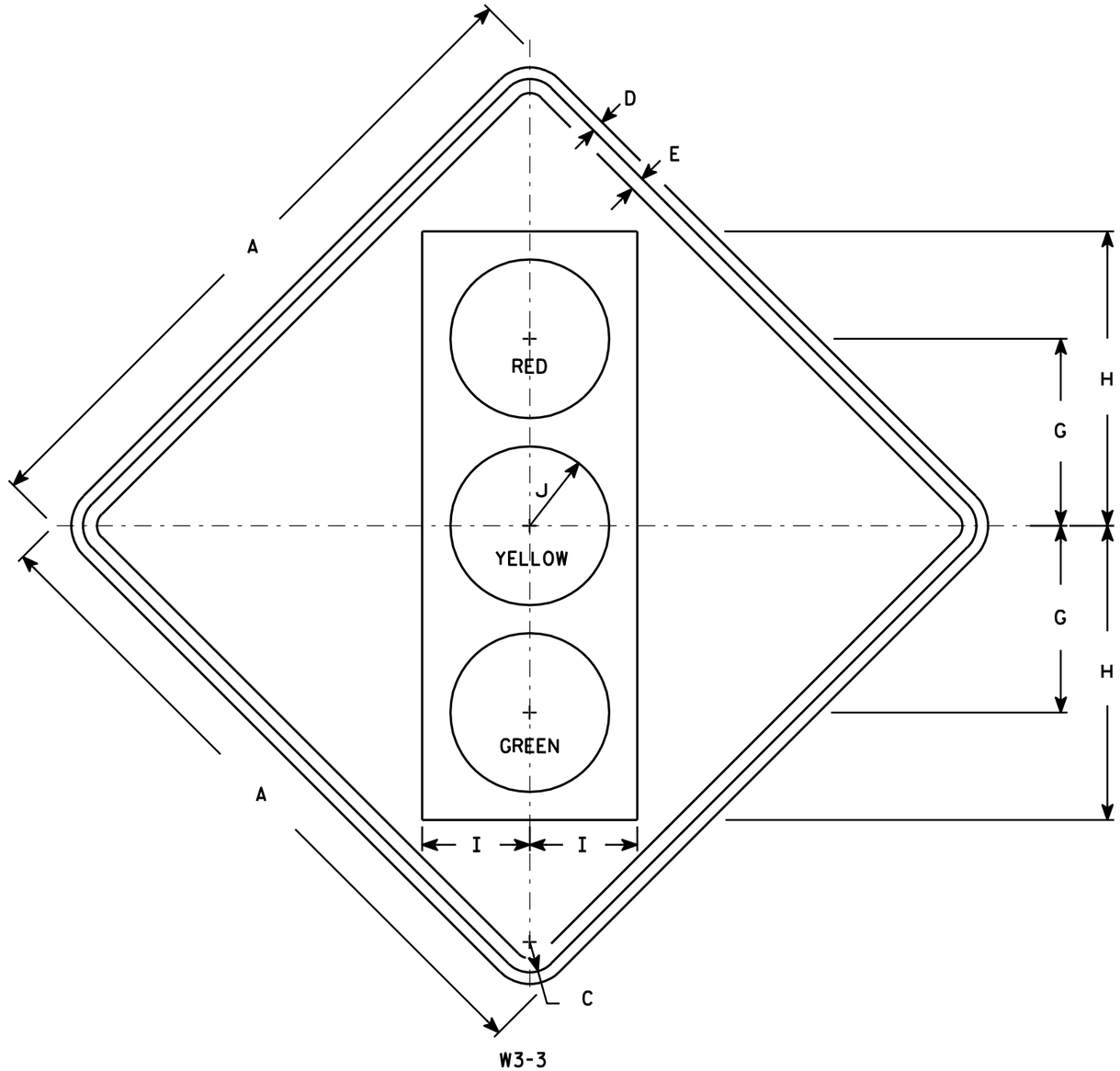
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 340 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - 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. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

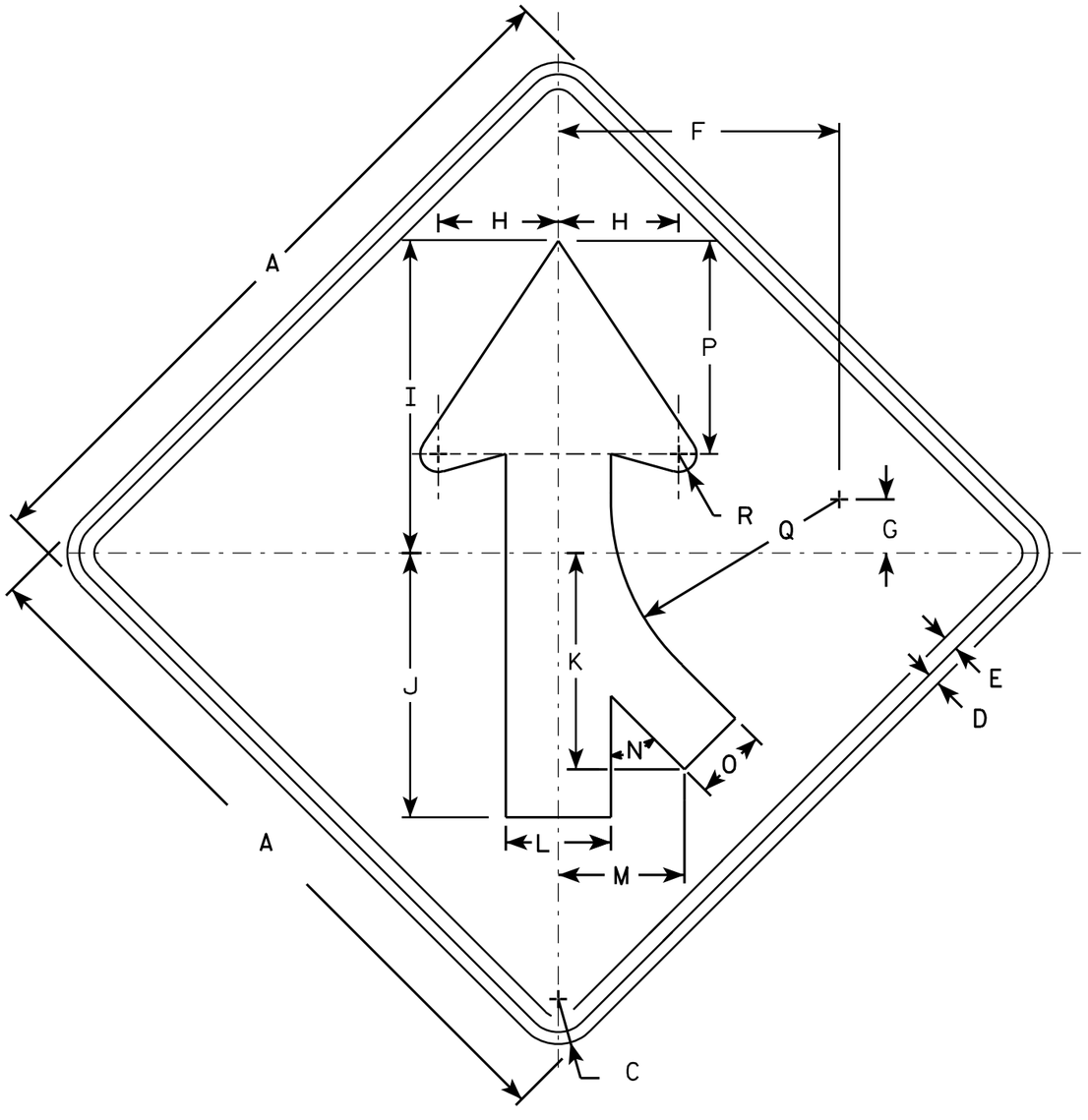
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 341 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42



W4-1 R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

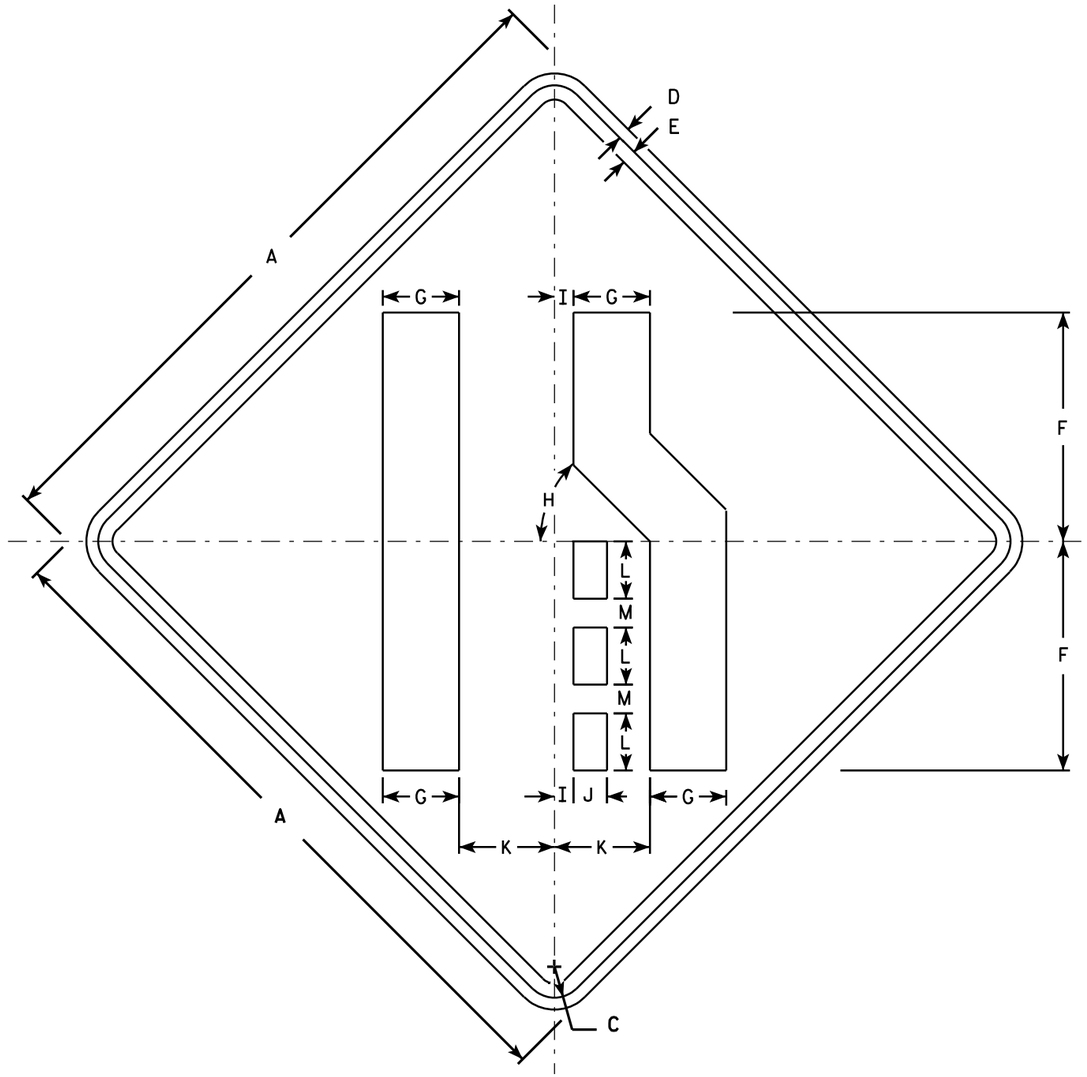
STANDARD SIGN
W4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 342	E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

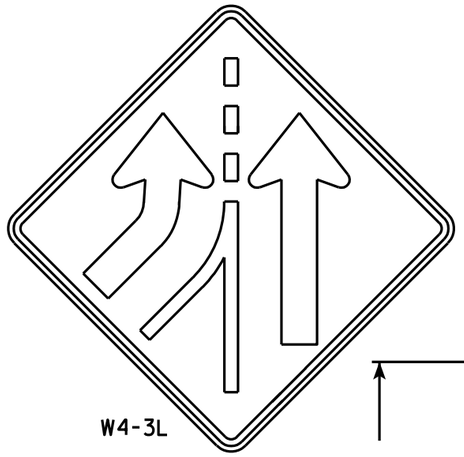
STANDARD SIGN
W4-2

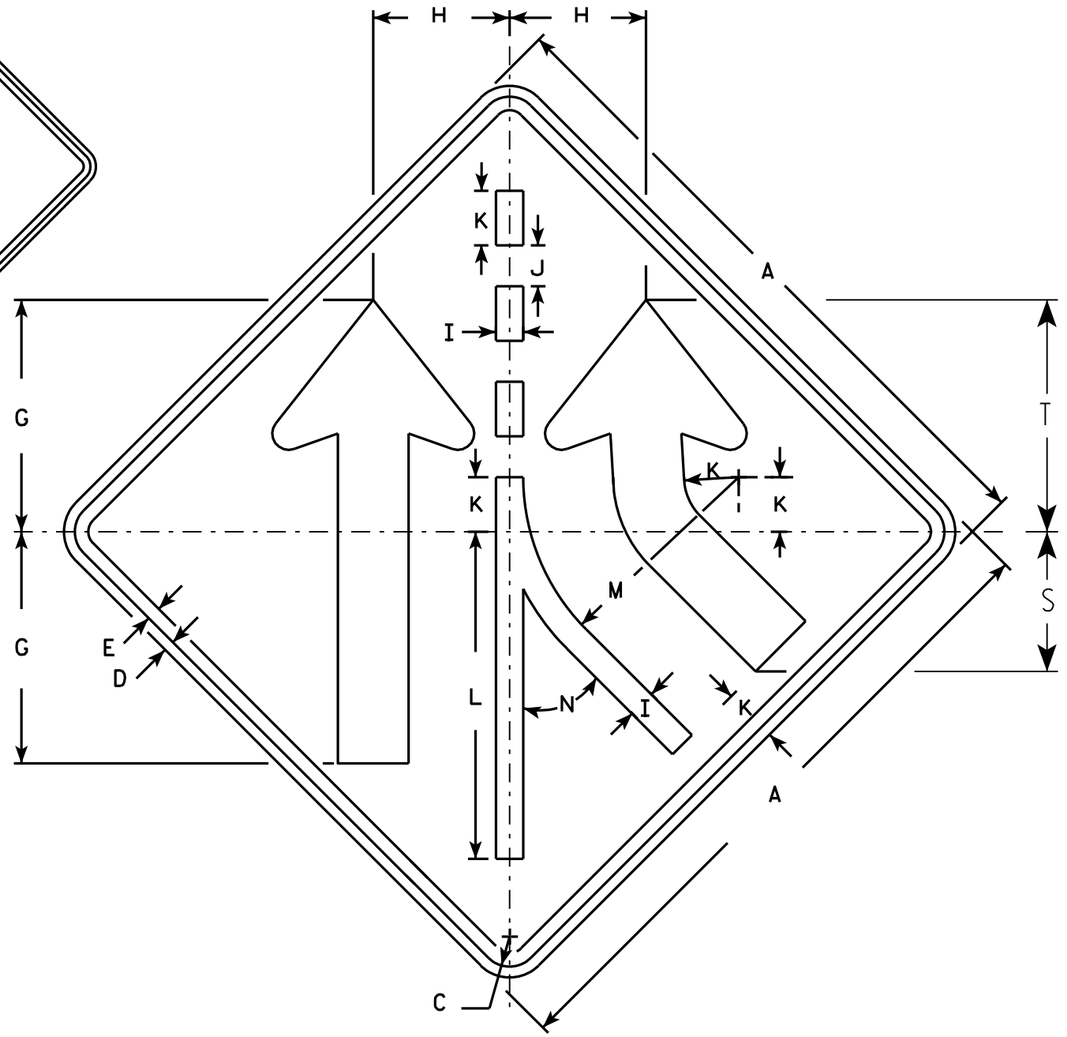
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO: | SHEET NO: 343 | E

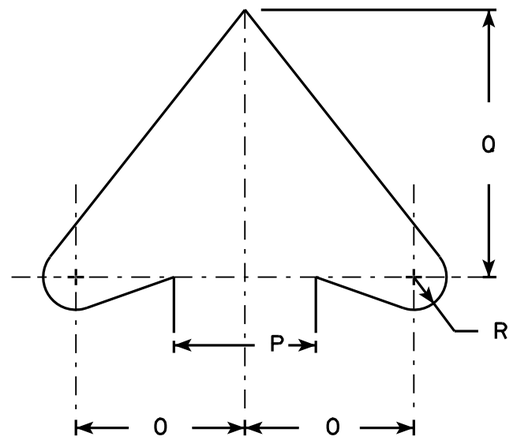




W4-3R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-3 L is the same as W4-3 R except the arrow is reversed along the vertical centerline.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		10 5/8	6 1/4	1 1/4	1 7/8	2 1/2	15	9 7/8	45°	3 7/8	3 1/4	6 1/8	3/4	6 3/8	10 5/8							6.25
2S	36		1 5/8	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 7/8	45°	4 5/8	4	7 3/8	7/8	7 3/4	12 3/4							9.0
2M	36		1 5/8	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 7/8	45°	4 5/8	4	7 3/8	7/8	7 3/4	12 3/4							9.0
3																											
4	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
5	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0

STANDARD SIGN
W4-3

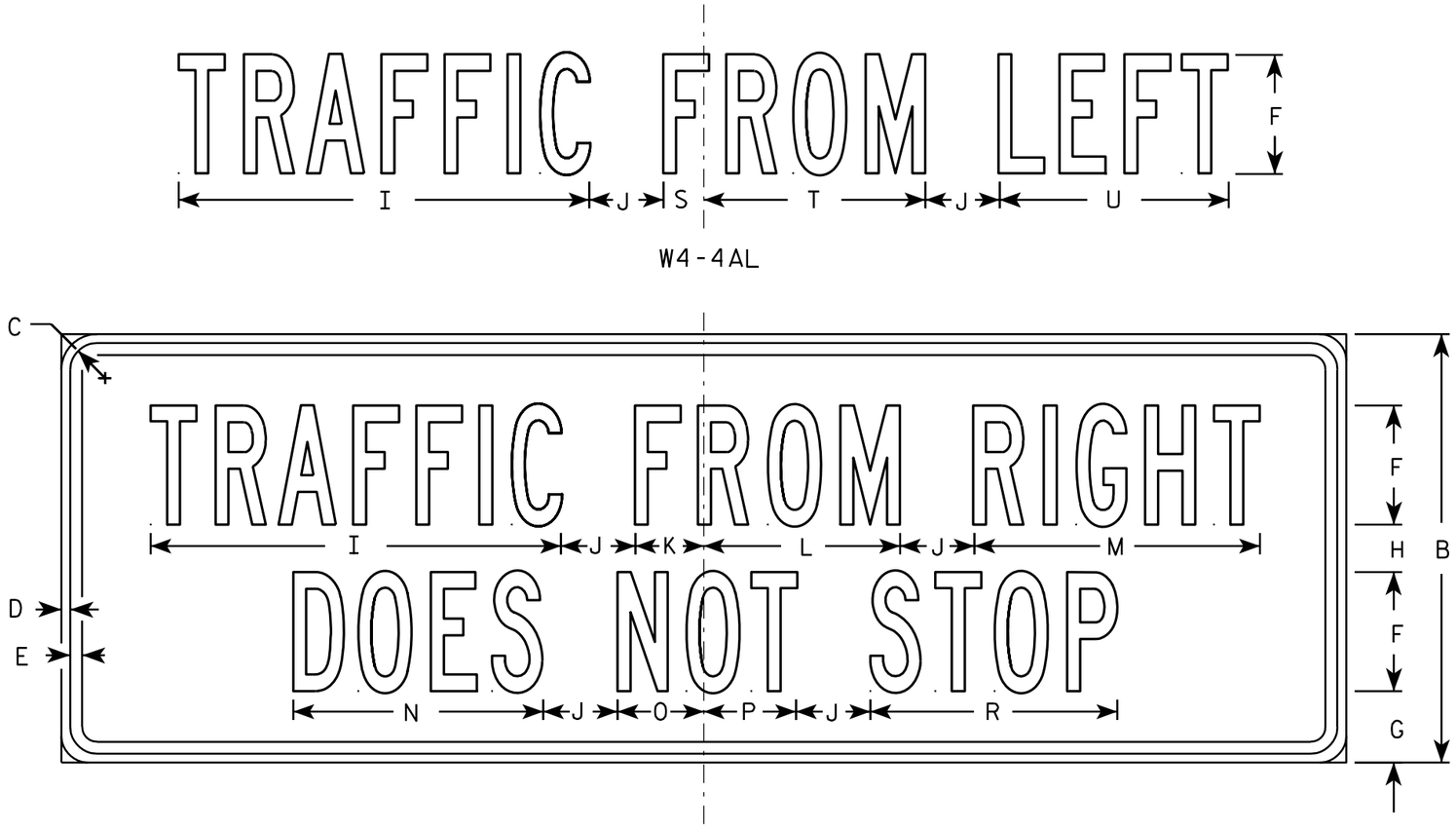
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-3.8

PROJECT NO:

SHEET NO: 344 E



W4-4AL

W4-4AR

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. 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																											
2S	30	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	1 3/4	4 7/8	7 1/4	6 1/4	2 1/4	2 1/4		6 1/4	1	5 5/8	5 3/4						2.5
2M	30	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	1 3/4	4 7/8	7 1/4	6 1/4	2 1/4	2 1/4		6 1/4	1	5 5/8	5 3/4						2.5
3	42	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	13 7/8	2 3/8	2 1/8	6 3/4	9 3/4	8 3/8	2 3/4	3 3/8		8 3/8	1 1/8	7 3/4	7 3/4						4.4
4	54	18	1 1/8	3/8	1/2	5	3	2	17 1/4	3 1/8	2 7/8	8 1/4	12	10 1/2	3 5/8	3 7/8		10 3/8	1 3/4	9 3/8	9 5/8						6.8
5																											

STANDARD SIGN
W4-4AL & W4-4AR

WISCONSIN DEPT OF TRANSPORTATION

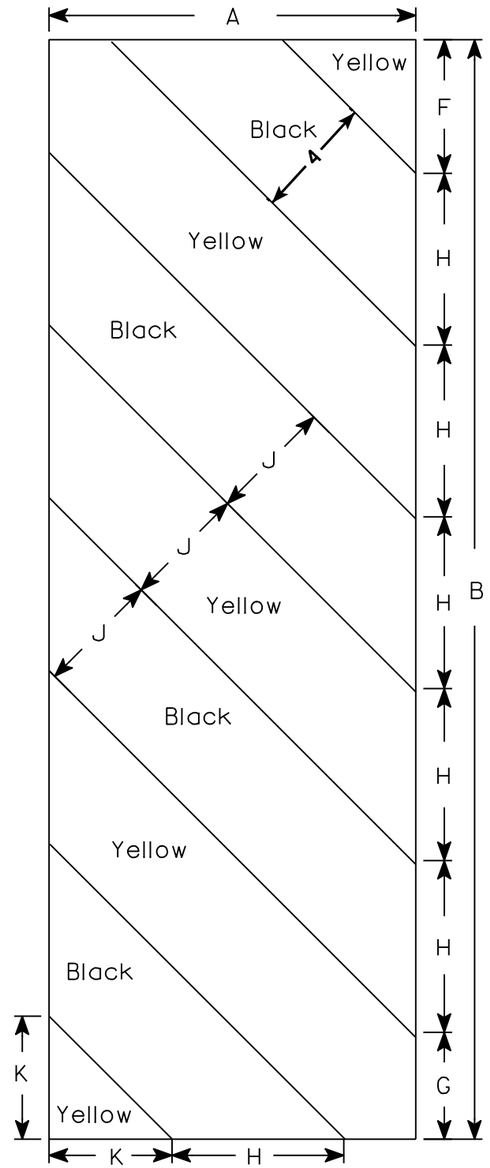
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4A.2

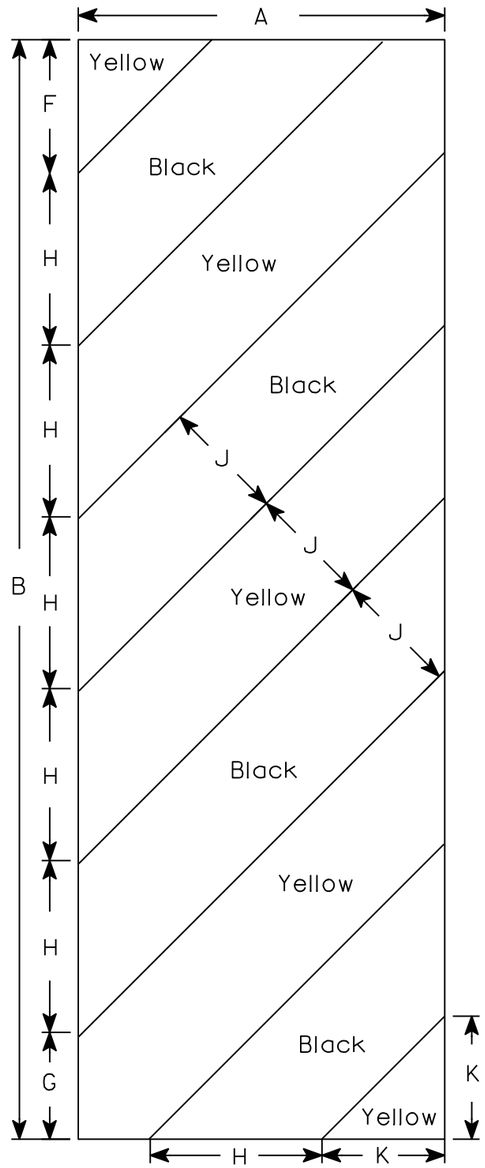
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 345 | E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W44A.DGN PLOT DATE : 12-MAR-2013 11:35 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.202372:1.000000
WISDOT/CADDS SHEET 42



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

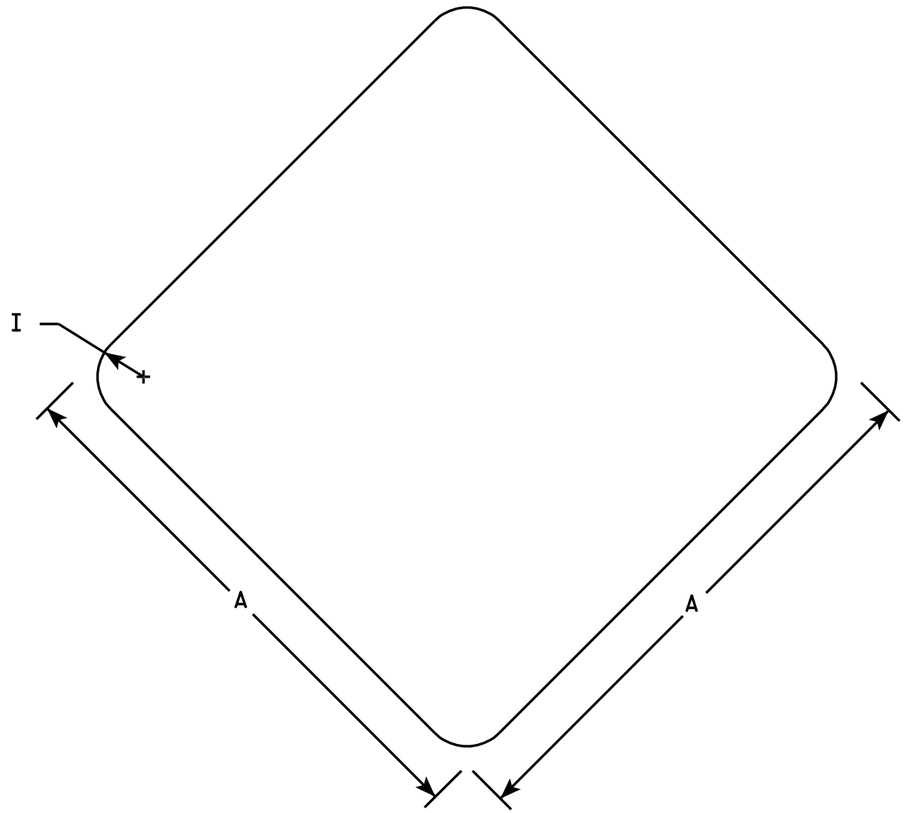
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 346	E



W5-56

NOTES

1. Sign is Type II - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners 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	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

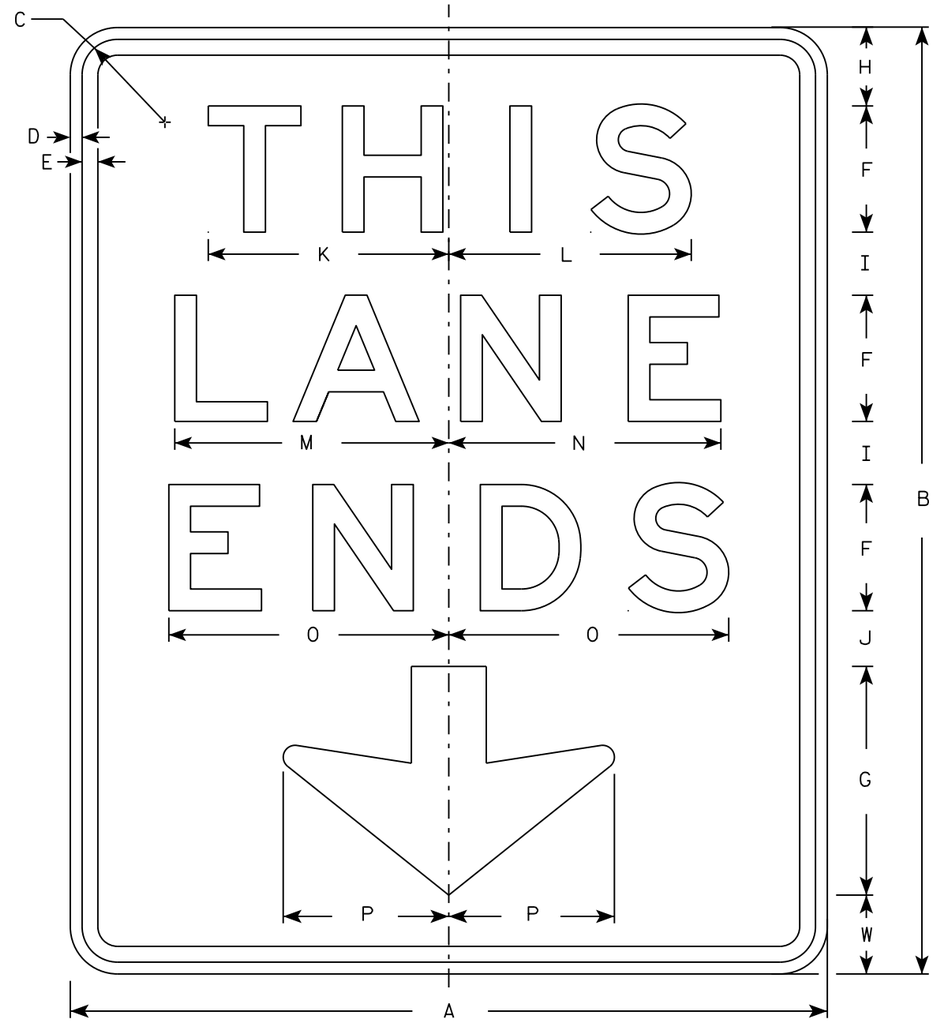
STANDARD SIGN
W5-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. W5-56.6

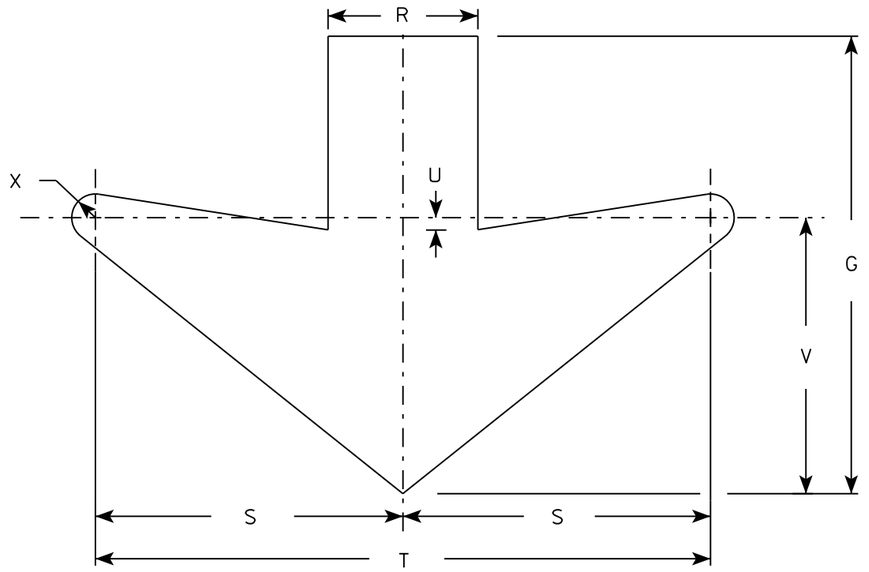
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 347	E



W9-62

NOTES

1. Sign is Type II - Type F Reflective except see Note 5
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E
4. Size 4 and 5 shall be Type I - Type F Reflective



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	48	60	2 1/4	3/4	1	8	14 1/2	5	4	3 1/2	15 1/4	15 3/8	17 3/8	17 1/4	17 3/4	10 1/2		4 3/4	9 3/4	19 1/2	3/4	8 3/4	5	3/4			20.0
2S	48	60	2 1/4	3/4	1	8	14 1/2	5	4	3 1/2	15 1/4	15 3/8	17 3/8	17 1/4	17 3/4	10 1/2		4 3/4	9 3/4	19 1/2	3/4	8 3/4	5	3/4			20.0
2M	48	60	2 1/4	3/4	1	8	14 1/2	5	4	3 1/2	15 1/4	15 3/8	17 3/8	17 1/4	17 3/4	10 1/2		4 3/4	9 3/4	19 1/2	3/4	8 3/4	5	3/4			20.0
3																											
4	72	90	6	1	1 1/2	12	22	8	6	5	23	23	26 1/8	26 1/8	26 5/8	16		6 1/2	15	30	2	15	7	1			45.0
5	72	90	6	1	1 1/2	12	22	8	6	5	23	23	26 1/8	26 1/8	26 5/8	16		6 1/2	15	30	2	15	7	1			45.0

STANDARD SIGN
W9-62

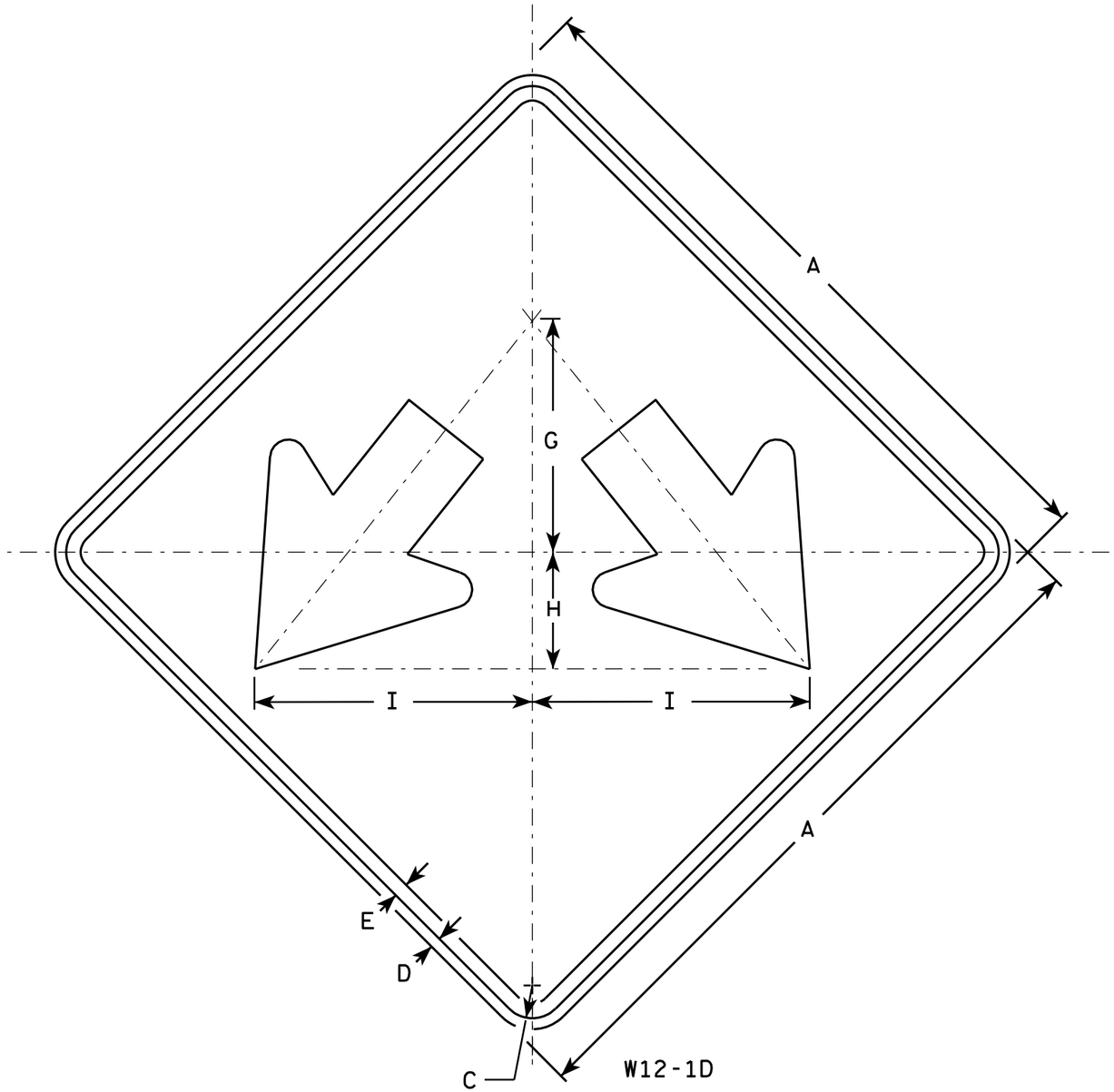
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. W9-62.11

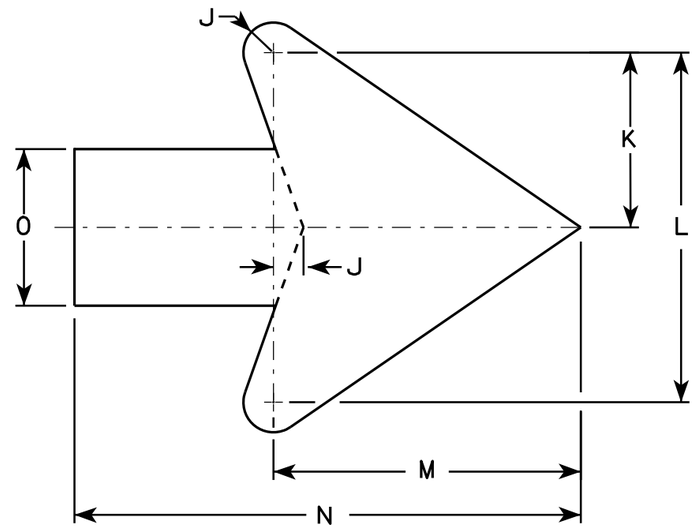
PROJECT NO:

SHEET NO: 348 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

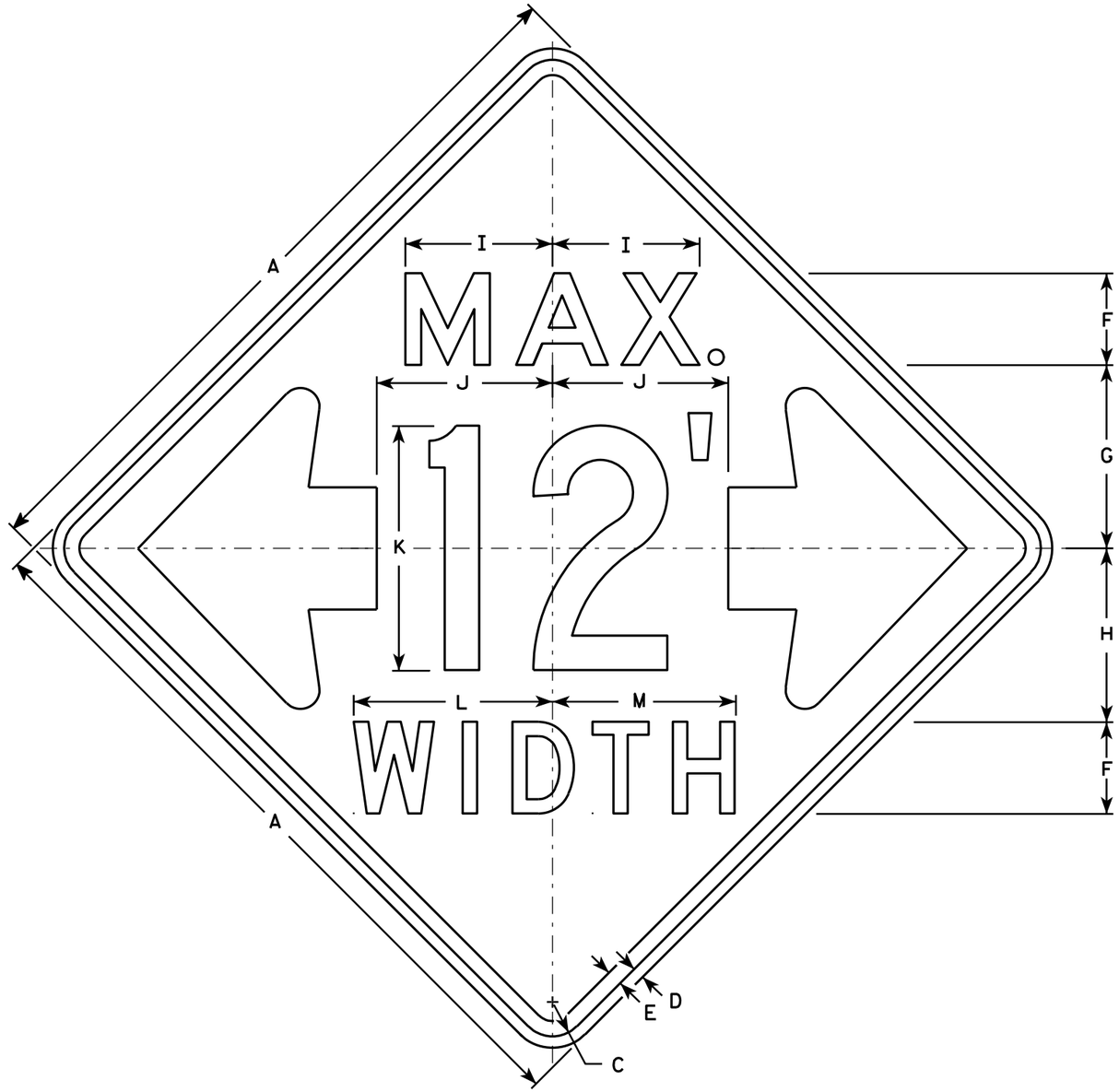
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

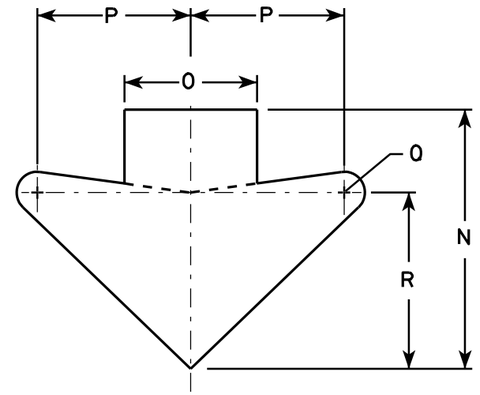
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 349	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



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

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

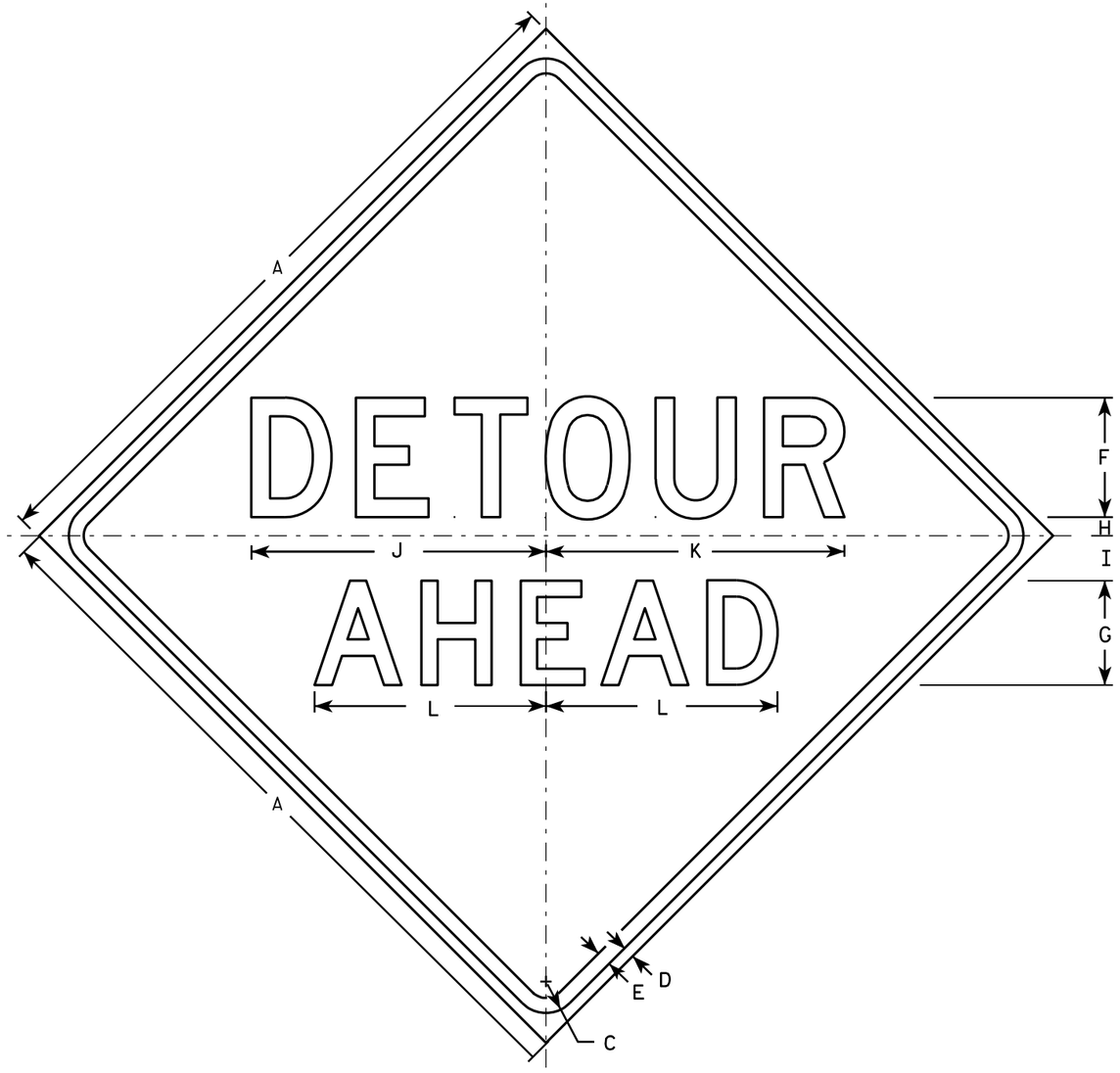
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 350 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000

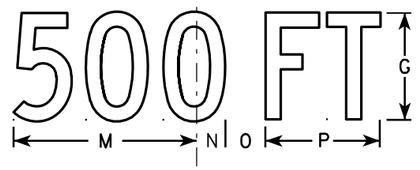
WISDOT/CADDS SHEET 42

7

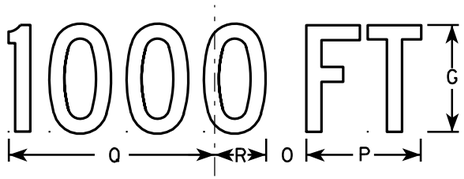
7



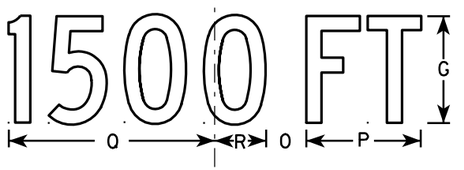
W20-2A



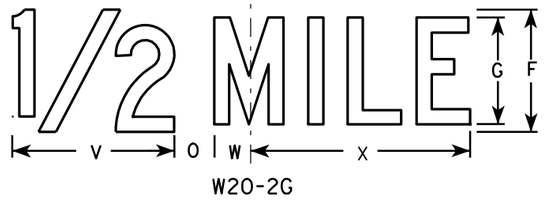
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. 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	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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

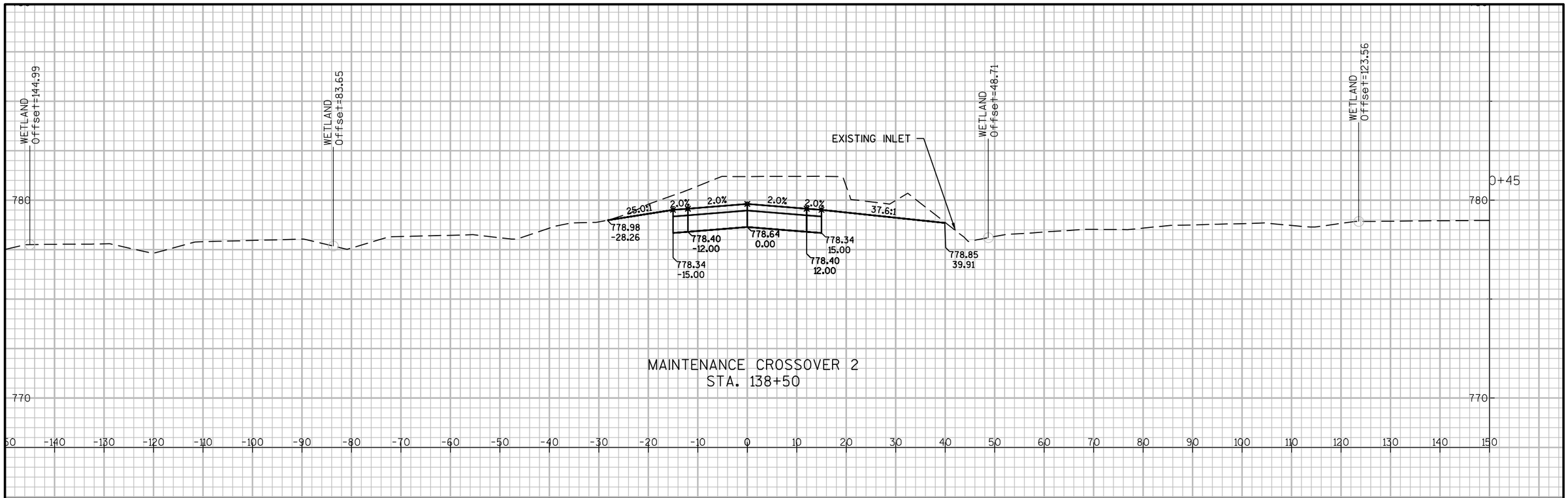
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

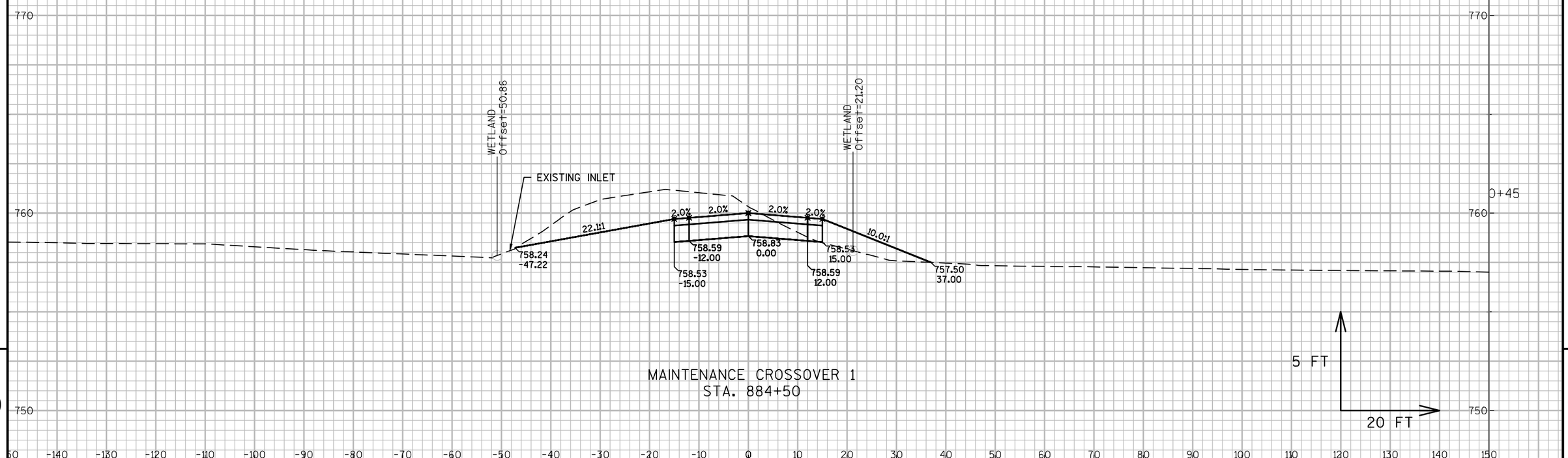
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 351	E



MAINTENANCE CROSSOVER 2
STA. 138+50



MAINTENANCE CROSSOVER 1
STA. 884+50

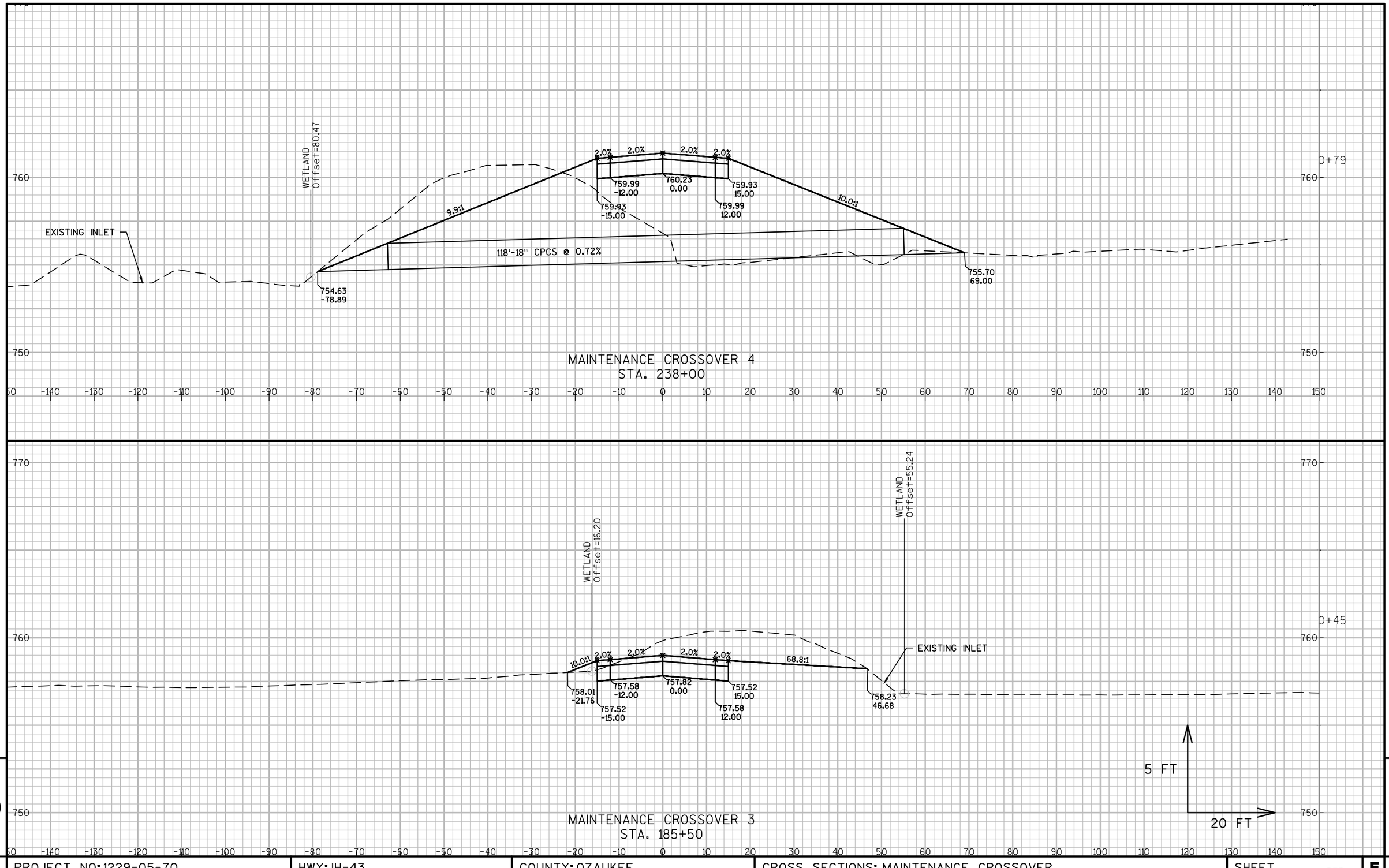
9 9

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CROSS SECTIONS: MAINTENANCE CROSSOVER	SHEET 352	E

FILE NAME : N:\PDS\C3D\12290500\DESIGN\CORRIDORS\MAINTXOVERS2.DWG
LAYOUT NAME - 01

PLOT DATE : 11/7/2017 12:02 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

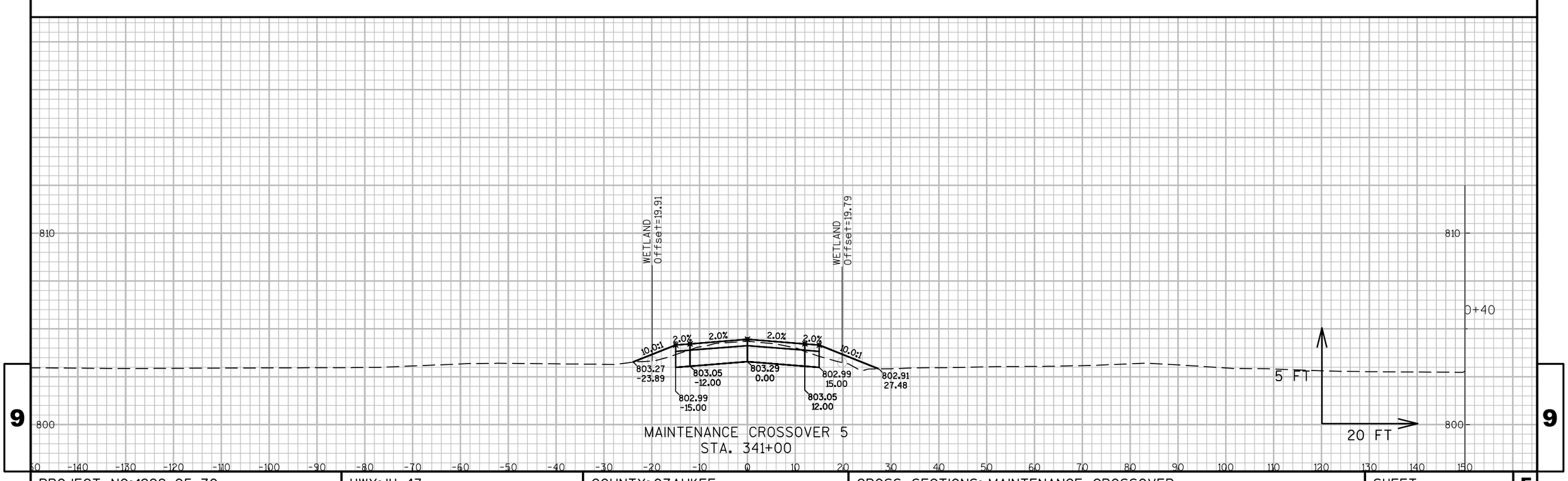
WISDOT/CADDS SHEET 49



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CROSS SECTIONS: MAINTENANCE CROSSOVER	SHEET 353	E

FILE NAME : N:\PDS\C3D\12290500\DESIGN\CORRIDORS\MAINTXOVERS2.DWG
LAYOUT NAME - 02
PLOT DATE : 11/7/2017 12:02 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

NO WORK AT
MAINTENANCE CROSSOVER 6
STA. 416+00

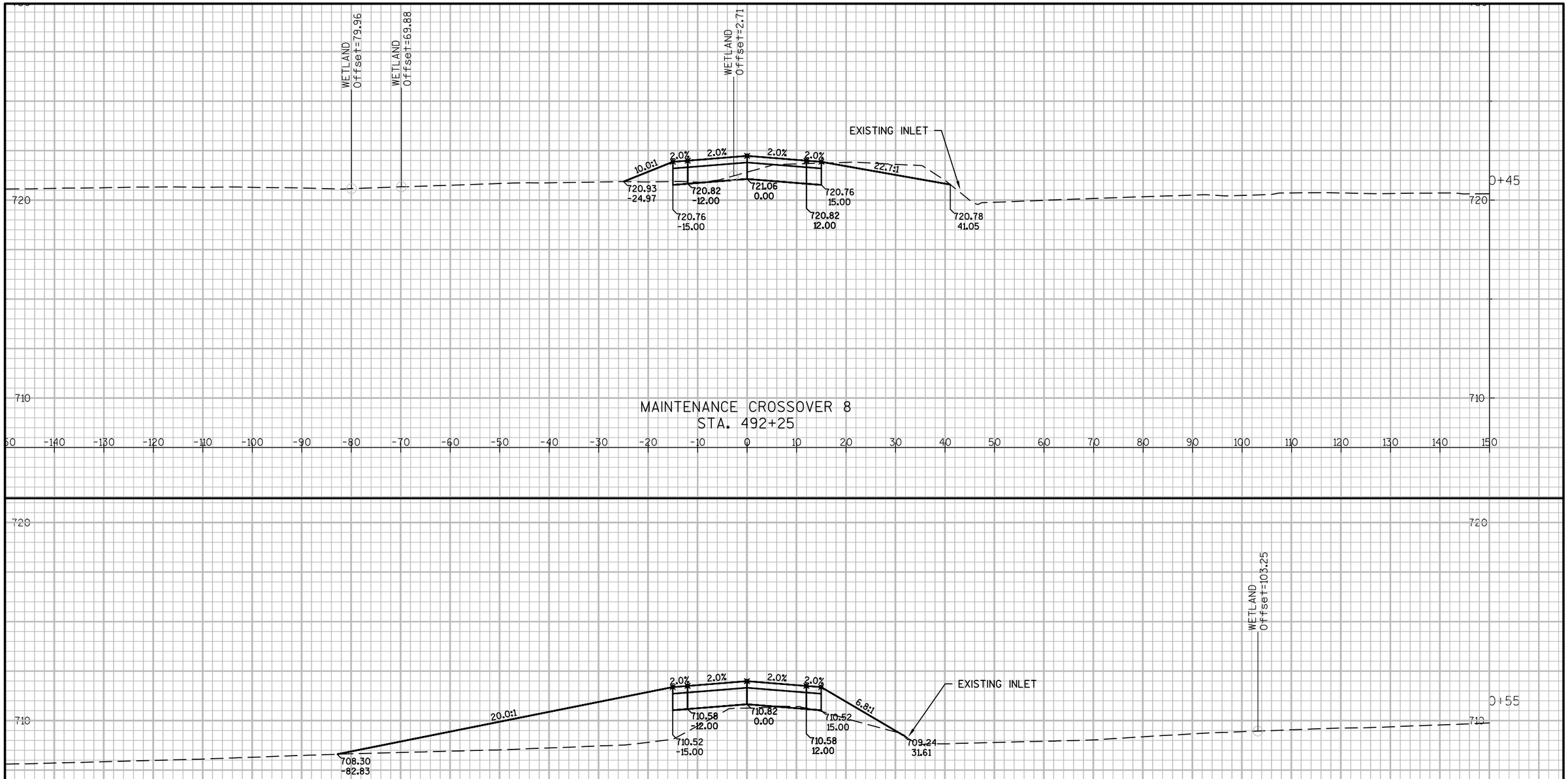


MAINTENANCE CROSSOVER 5
STA. 341+00

9 9

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CROSS SECTIONS: MAINTENANCE CROSSOVER	SHEET 354	E

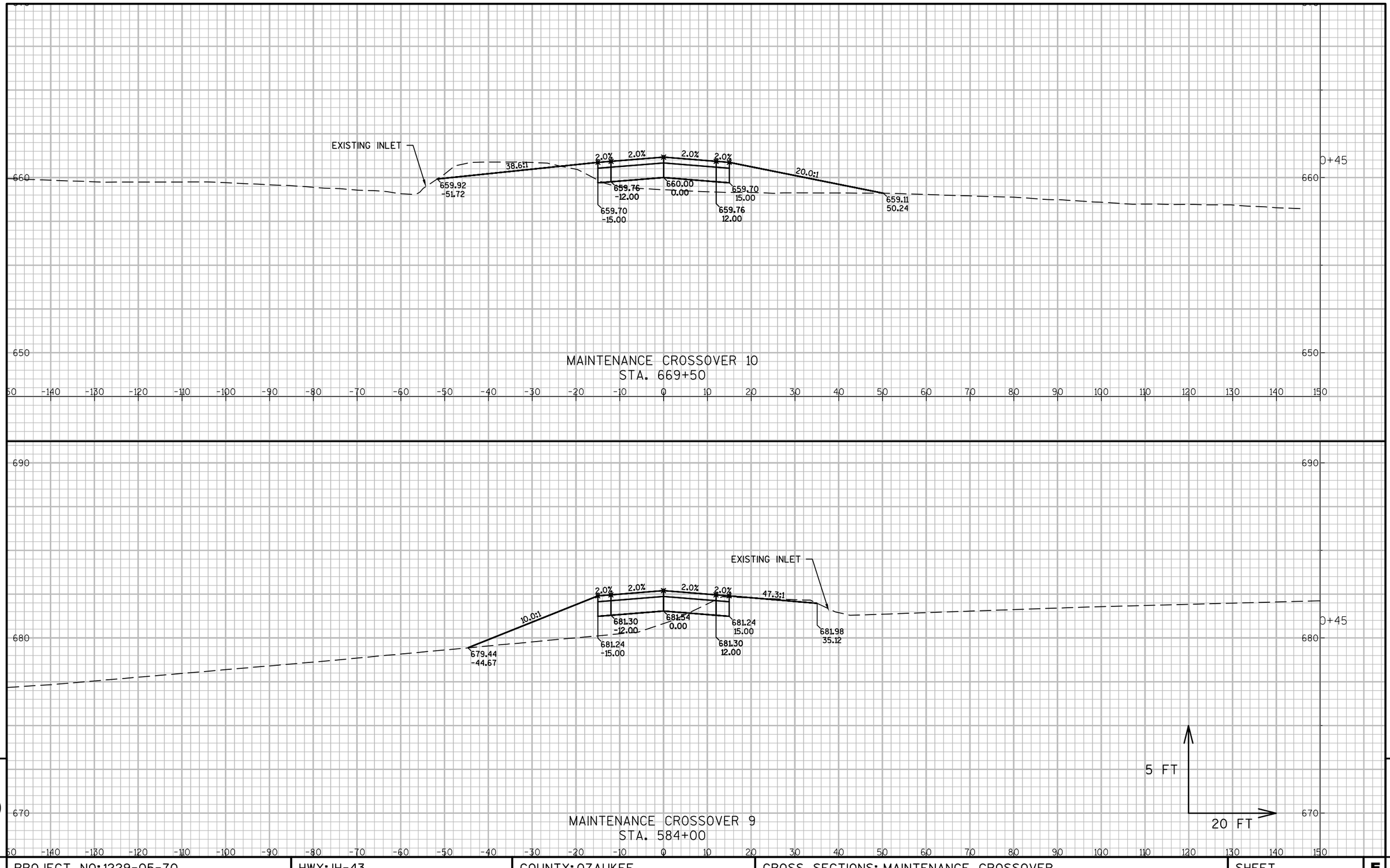
FILE NAME : N:\PDS\C3D\12290500\DESIGN\CORRIDORS\MAINTXOVERS2.DWG
LAYOUT NAME - 03
PLOT DATE : 11/7/2017 12:03 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9 9

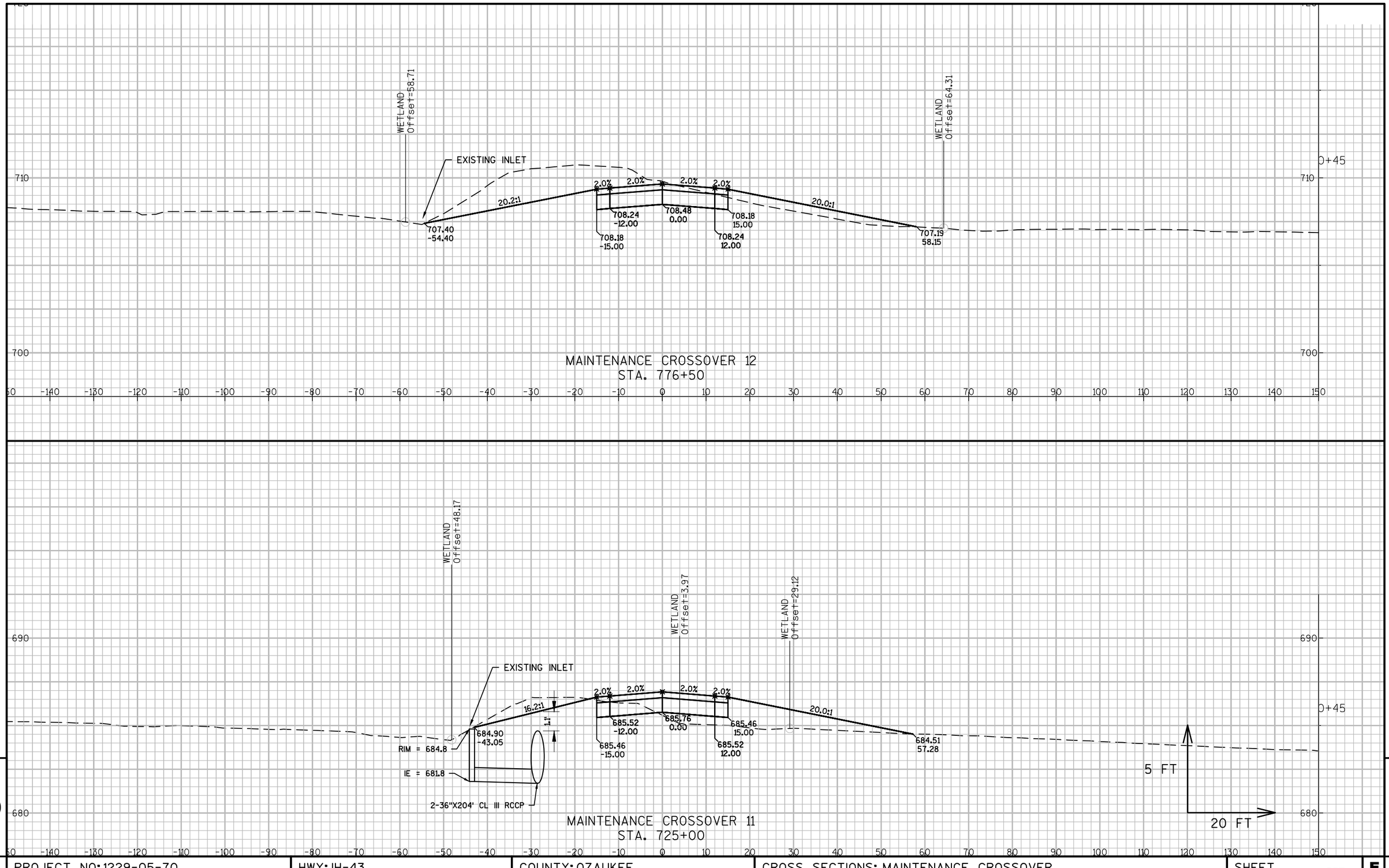
PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CROSS SECTIONS: MAINTENANCE CROSSOVER	SHEET 355	E

FILE NAME : N:\PDS\C3D\12290500\DESIGN\CORRIDORS\MAINTXOVERS2.DWG
LAYOUT NAME - 04
PLOT DATE : 11/7/2017 12:03 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

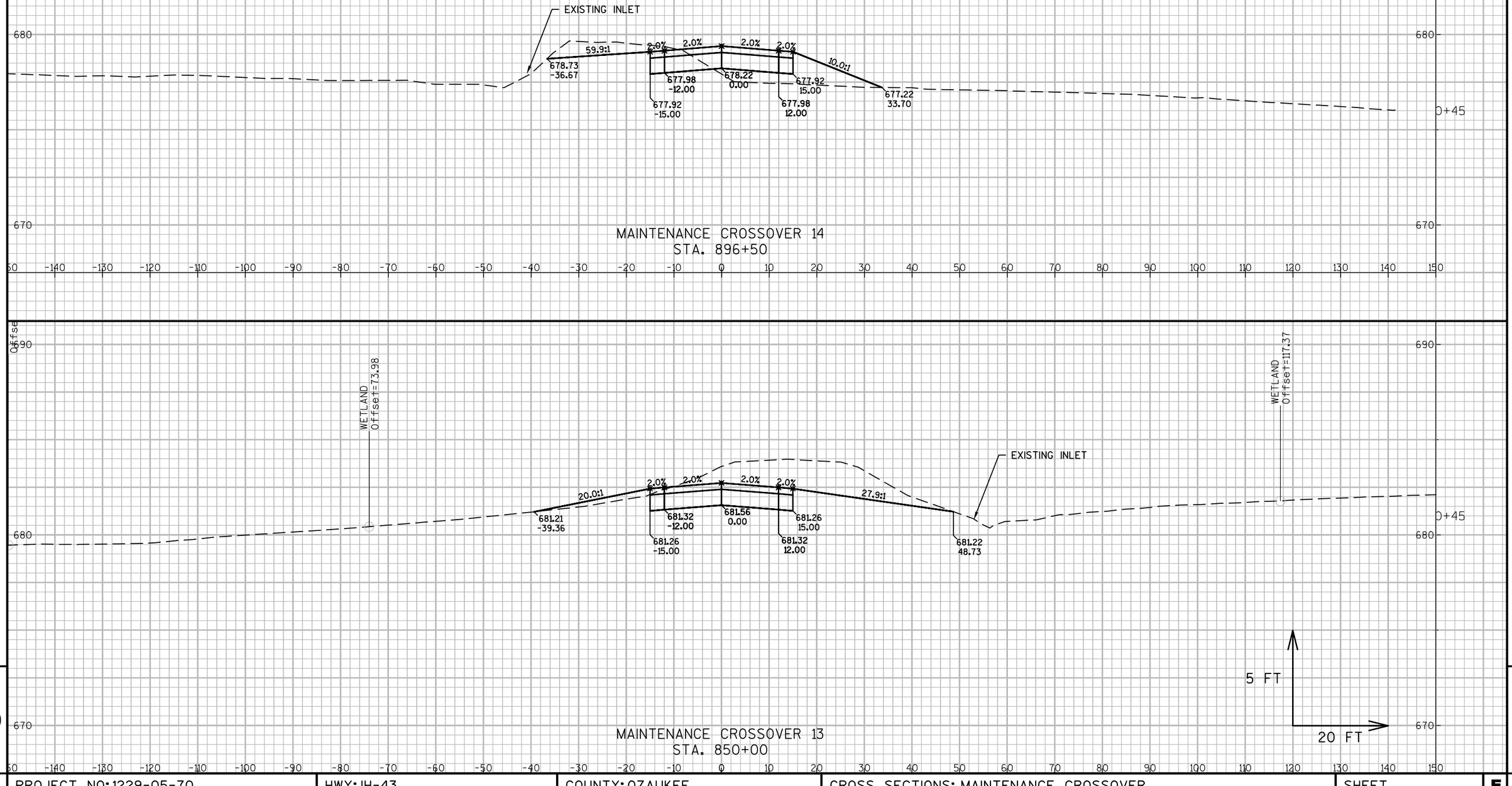


9 9

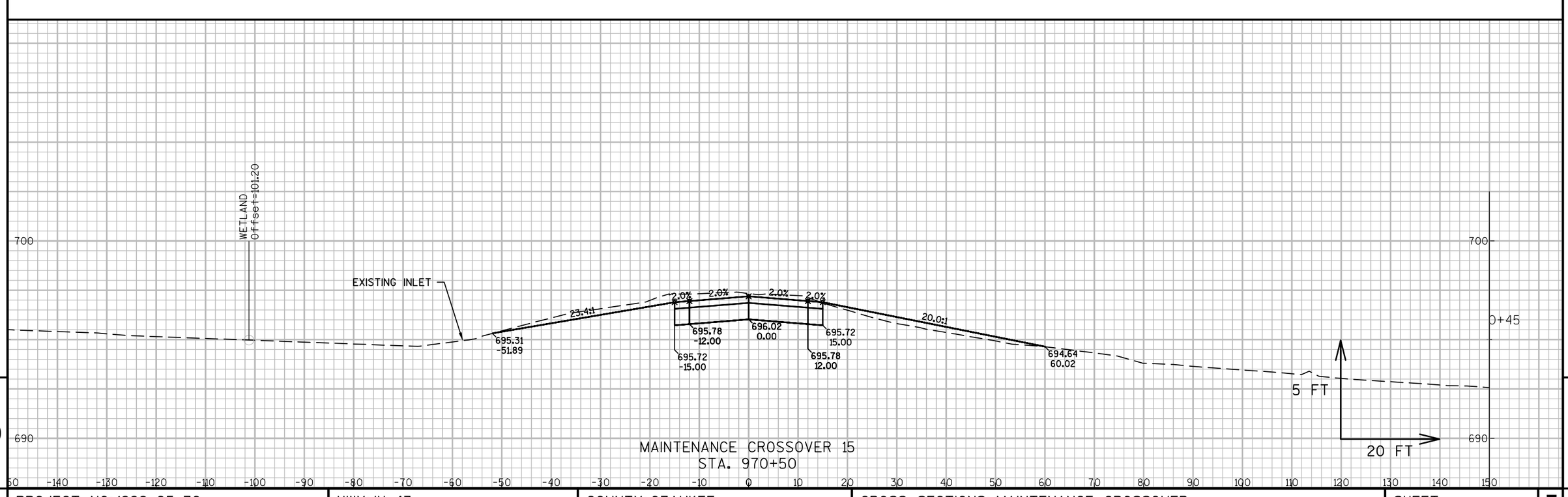
PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CROSS SECTIONS: MAINTENANCE CROSSOVER	SHEET 356	E



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CROSS SECTIONS: MAINTENANCE CROSSOVER	SHEET 357	E



PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CROSS SECTIONS: MAINTENANCE CROSSOVER	SHEET 358	E

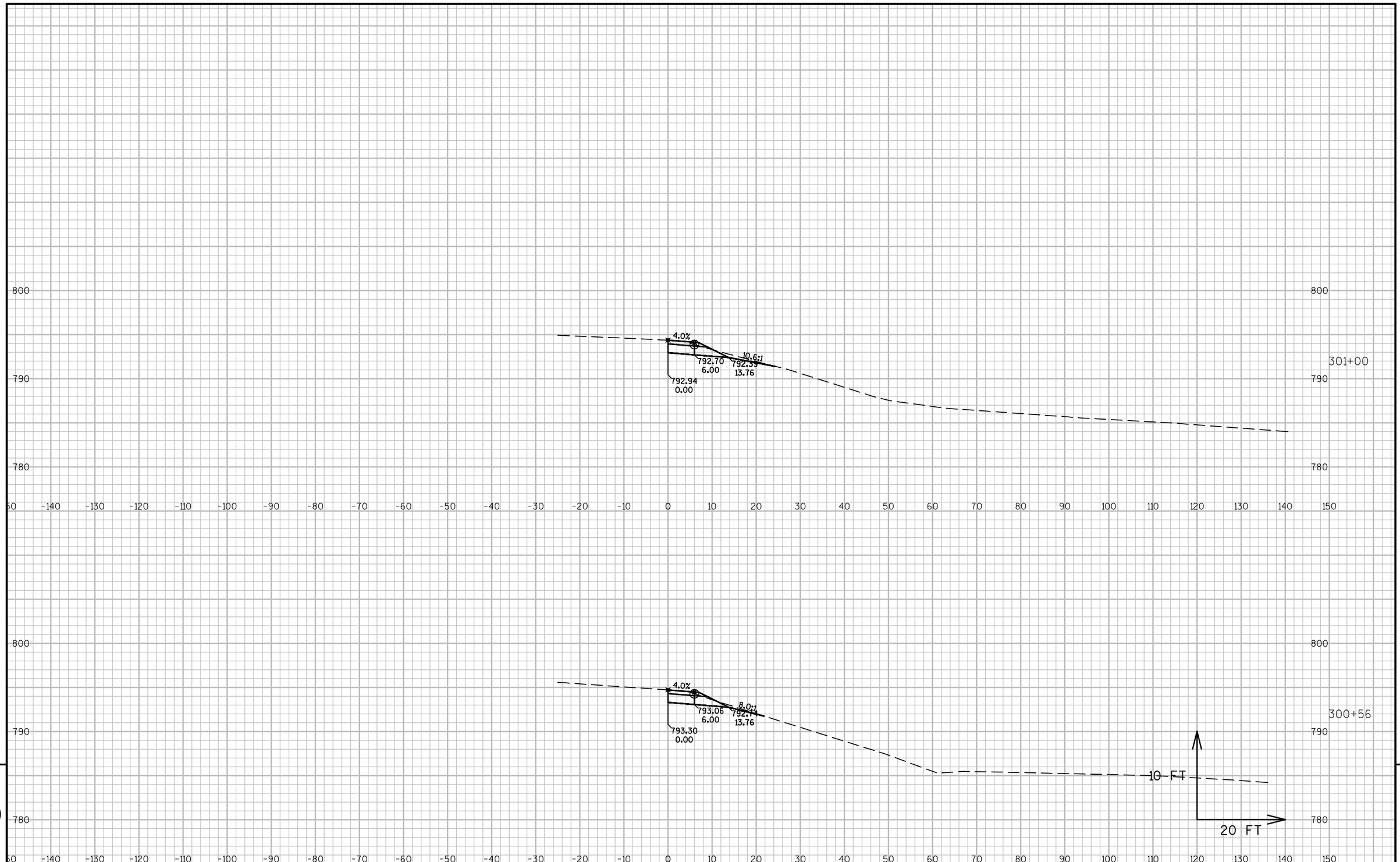


9 9

PROJECT NO: 1229-05-70	HWY: IH-43	COUNTY: OZAUKEE	CROSS SECTIONS: MAINTENANCE CROSSOVER	SHEET 359	E

FILE NAME : N:\PDS\C3D\12290500\DESIGN\CORRIDORS\MAINTXOVERS2.DWG
LAYOUT NAME - 08

PLOT DATE : 11/7/2017 12:05 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

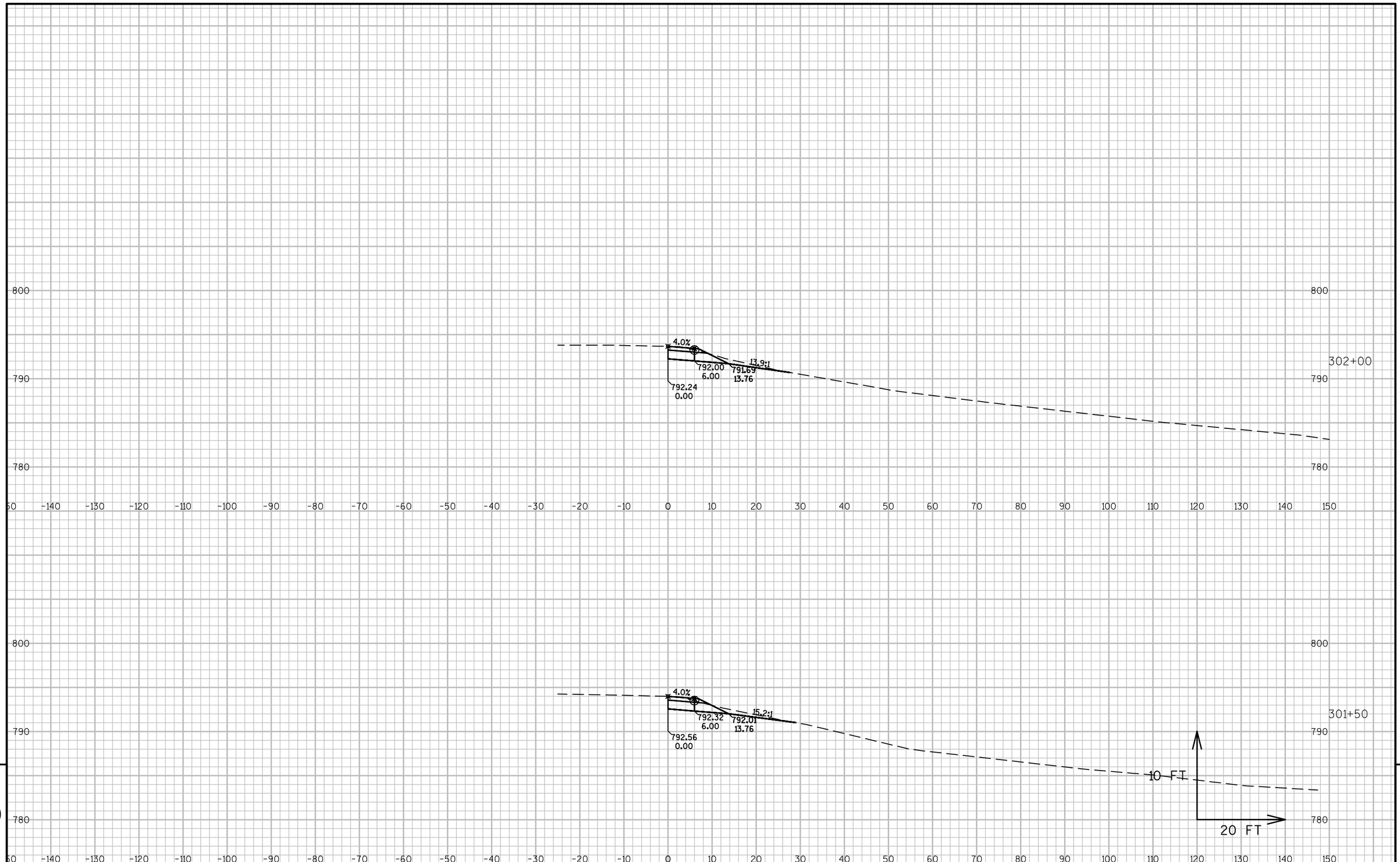
9

PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 360	E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 01

PLOT DATE : 11/1/2017 2:46 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

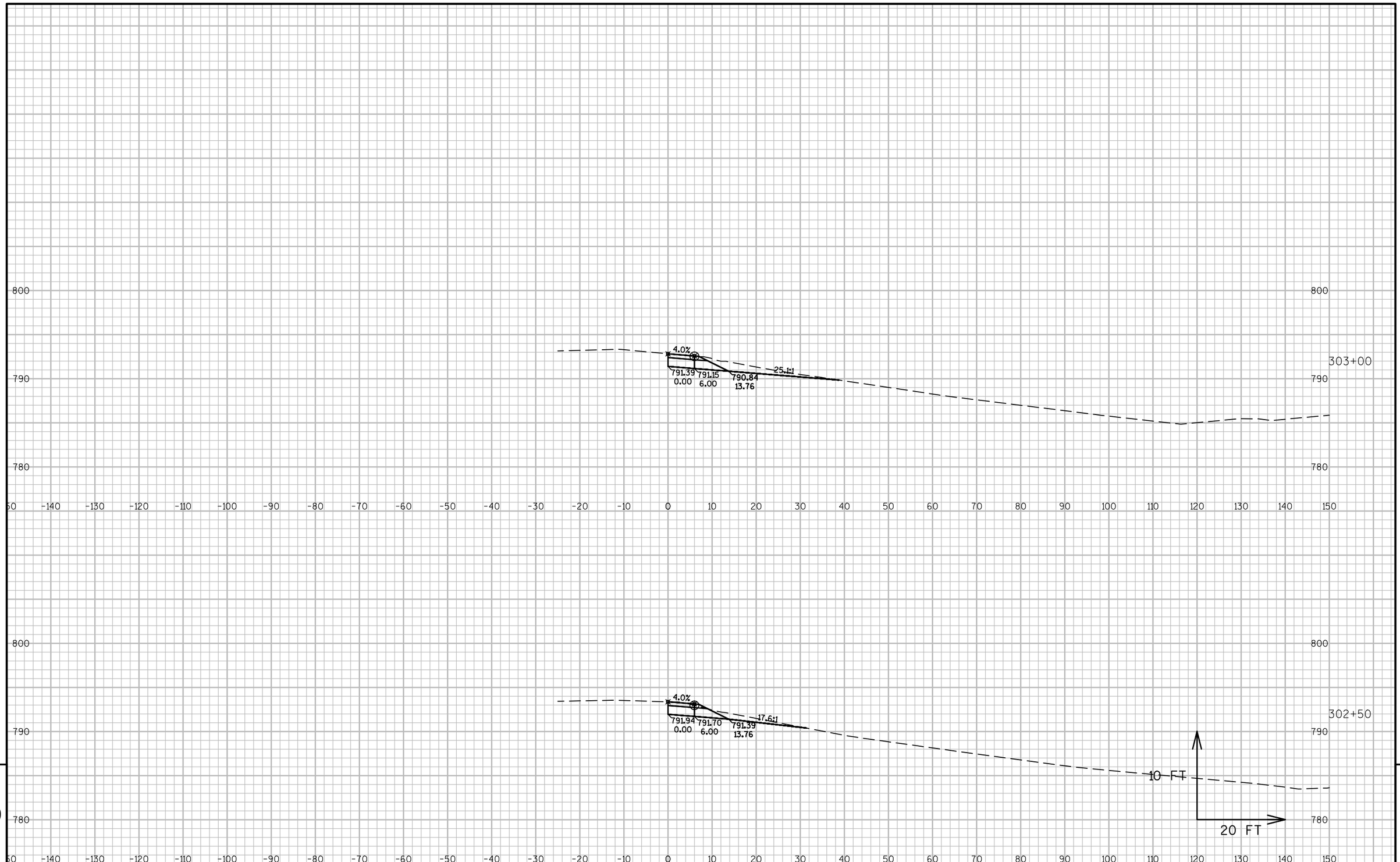
9

PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 361	E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 02

PLOT DATE : 11/1/2017 2:47 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

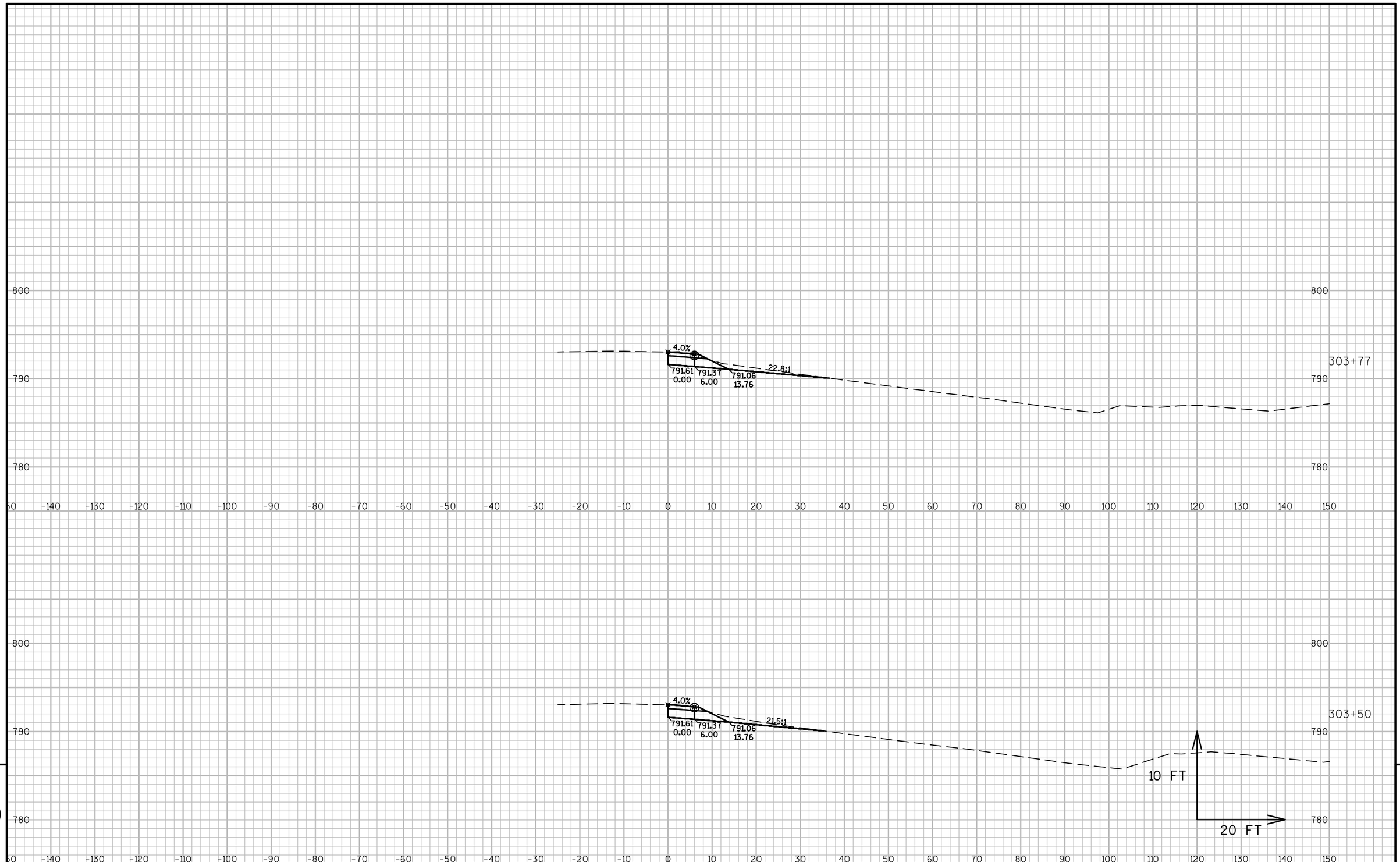
9

PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 362	E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 03

PLOT DATE : 11/1/2017 2:31 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

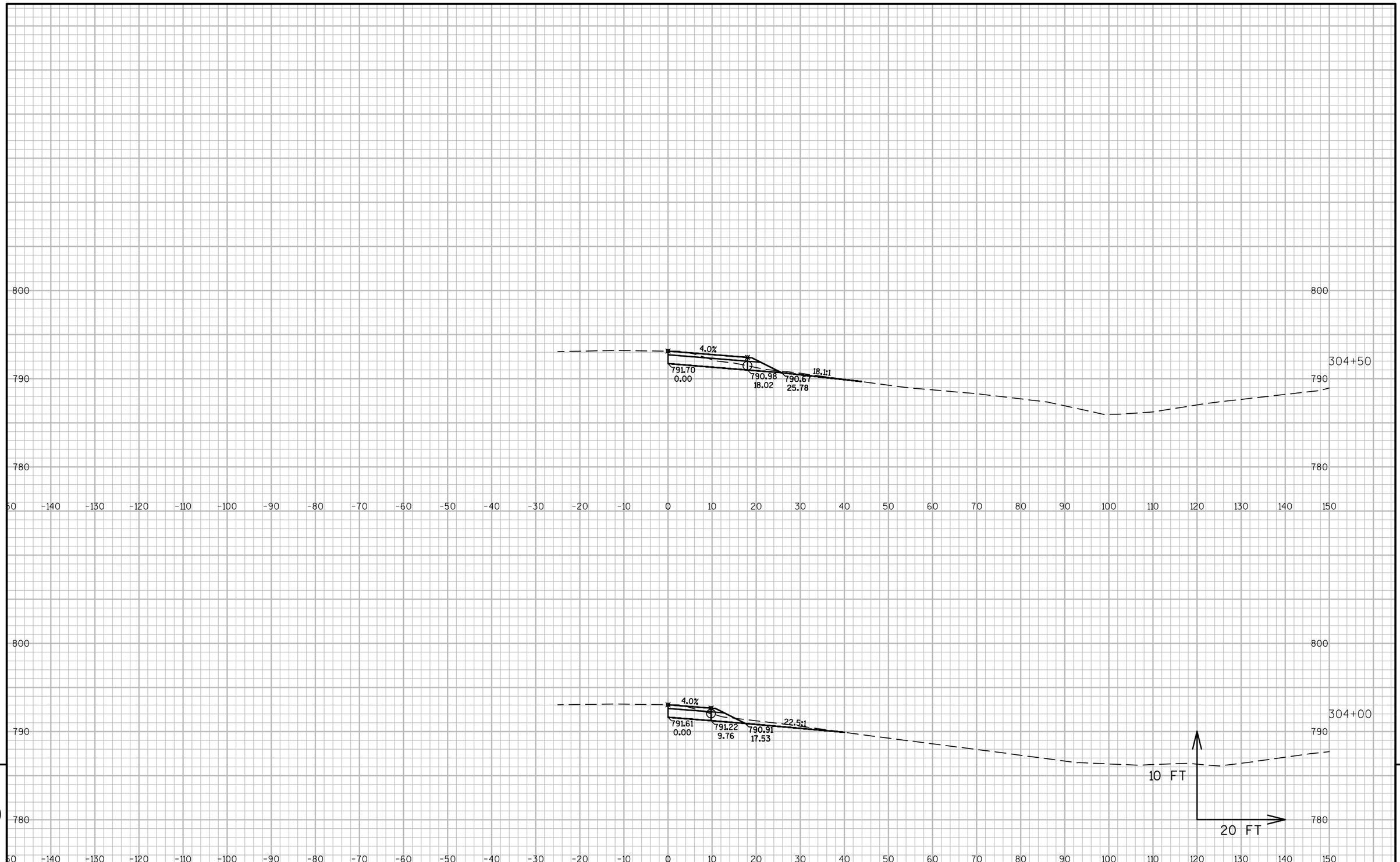
9

PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 363	E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 04

PLOT DATE : 11/1/2017 2:32 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

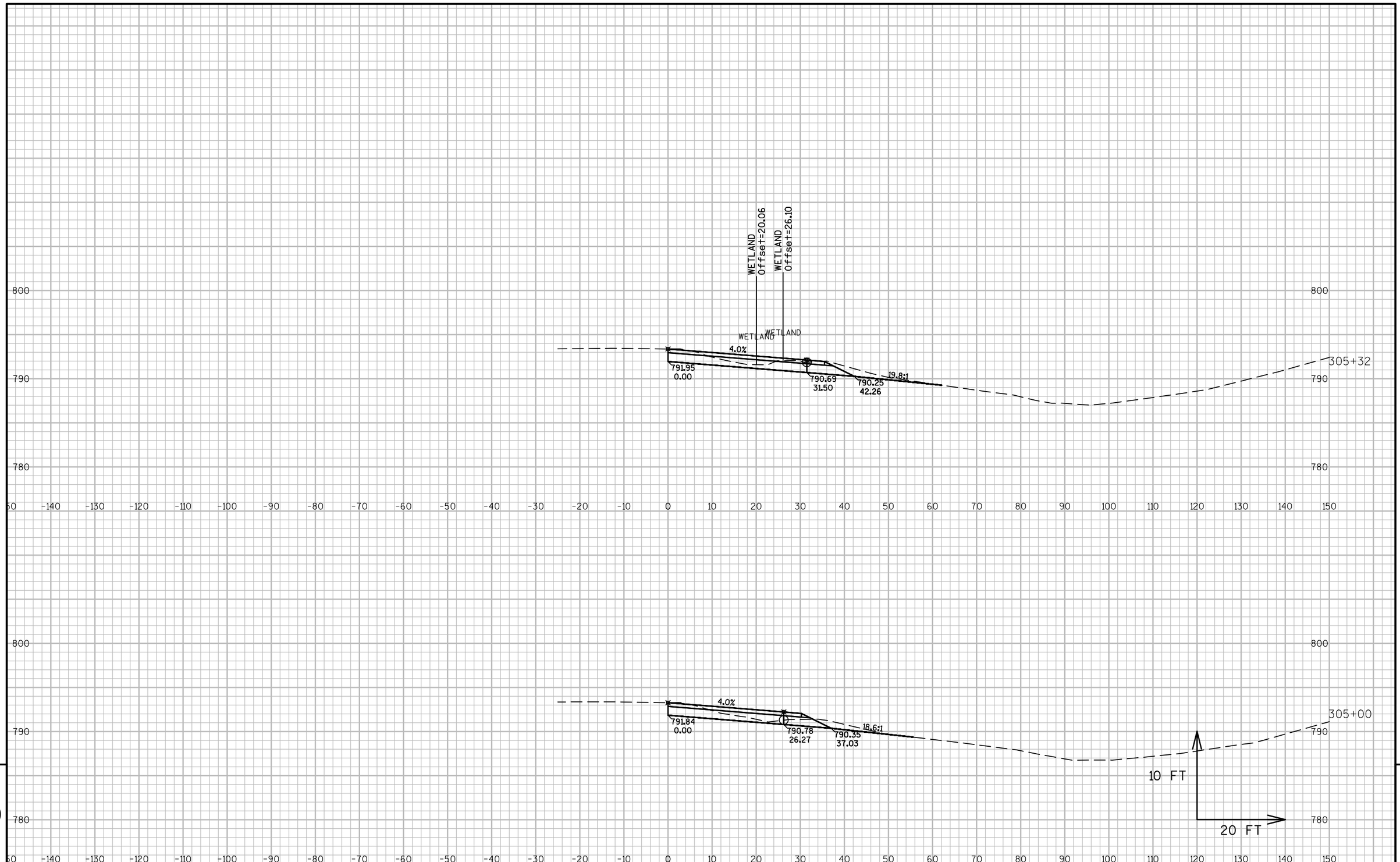
WISDOT/CADDS SHEET 49



PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 364 E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 05

PLOT DATE : 11/1/2017 2:32 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

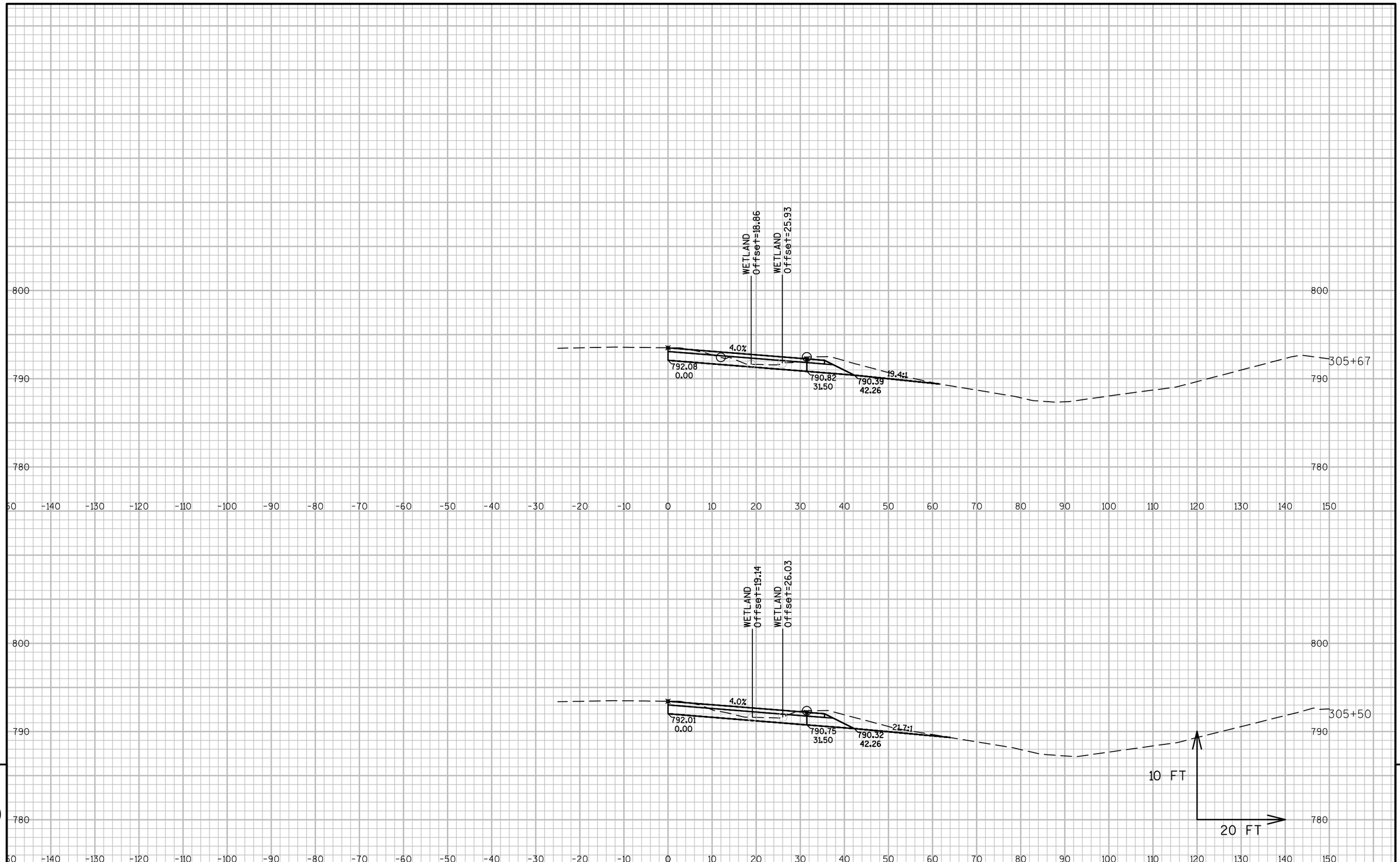
PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 365	E

9

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 06

PLOT DATE : 11/1/2017 2:32 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

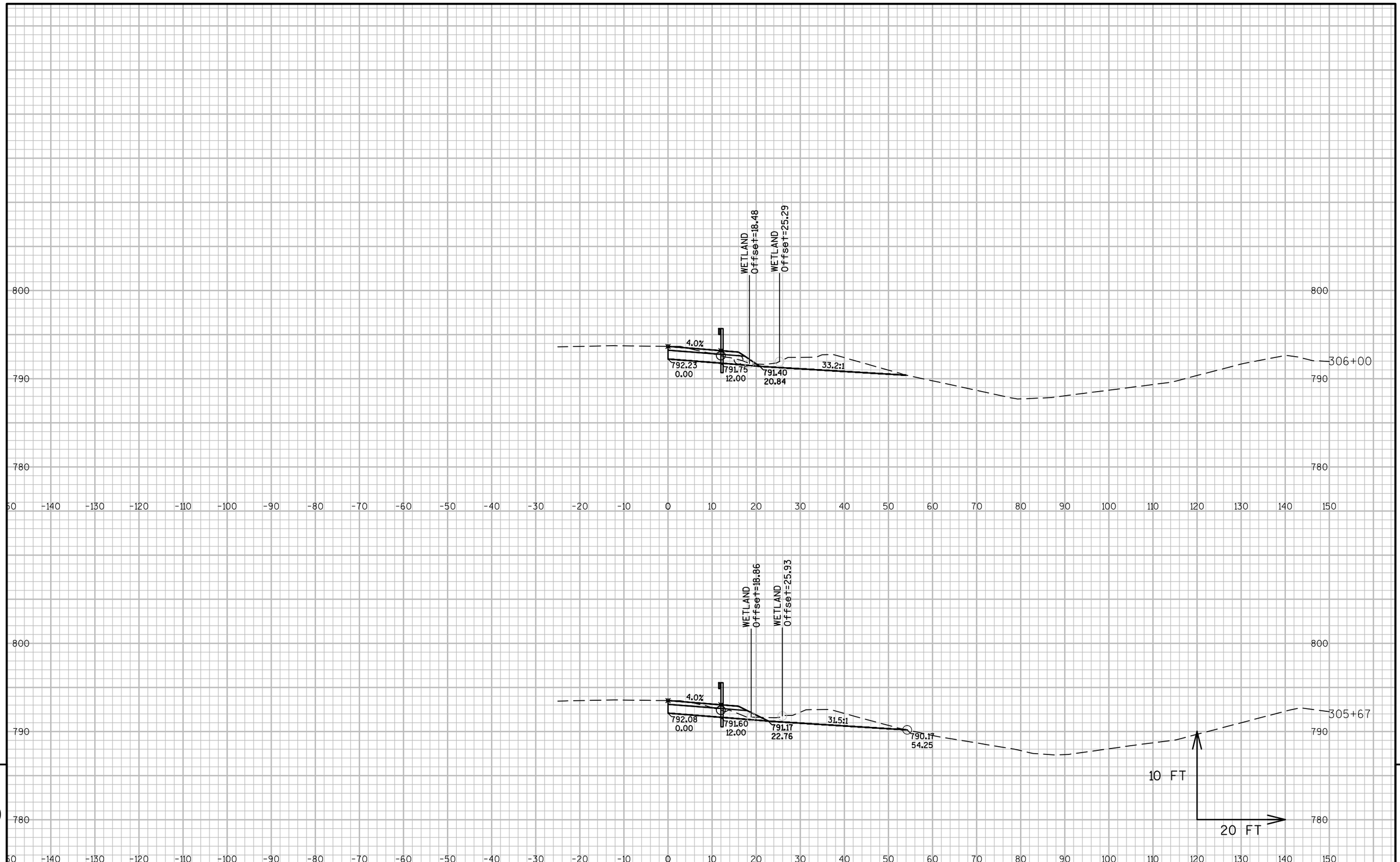


PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 366 E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 07

PLOT DATE : 11/1/2017 2:33 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

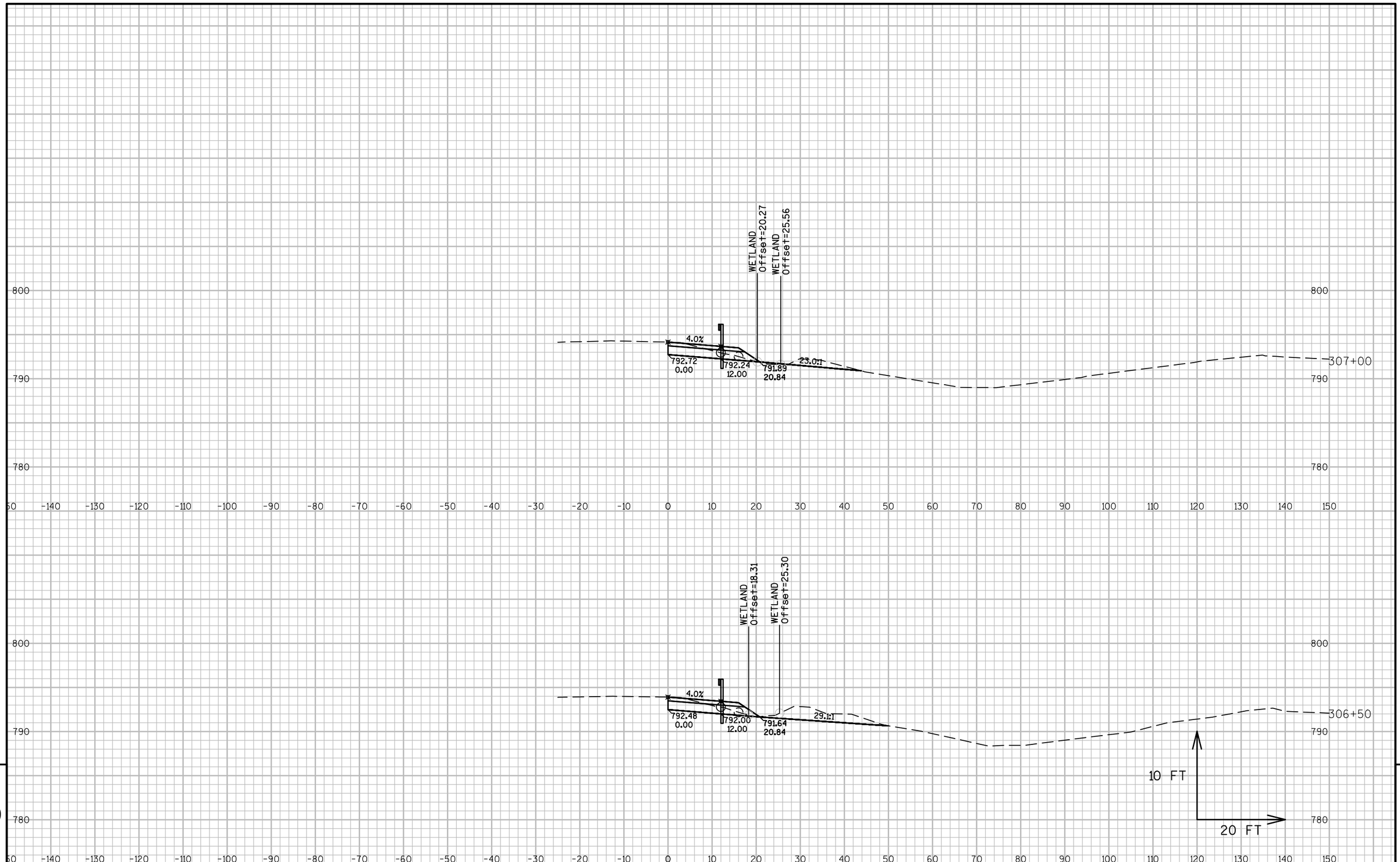


PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 367 E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 08

PLOT DATE : 11/1/2017 2:33 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

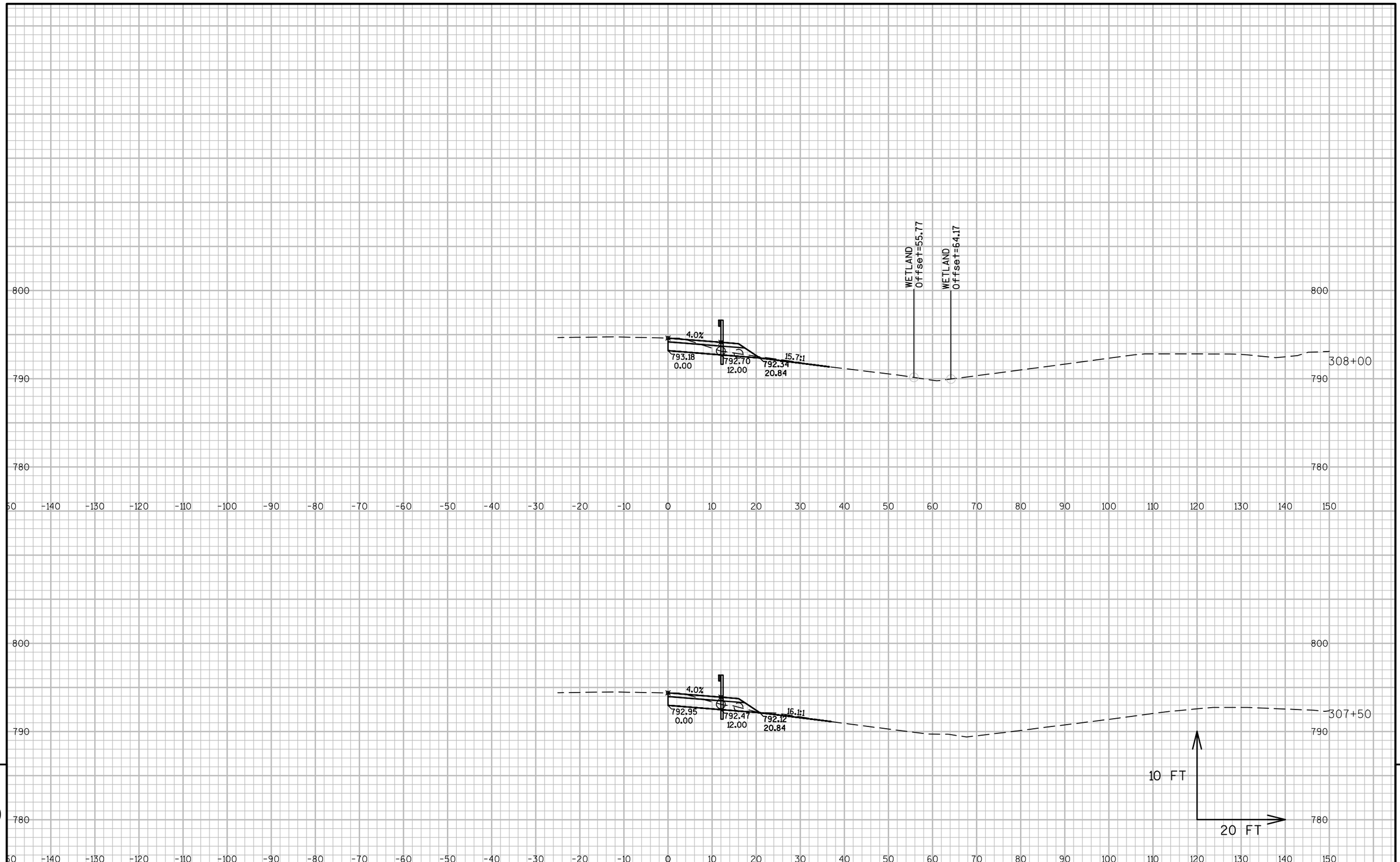


PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 368 E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 09

PLOT DATE : 11/1/2017 2:33 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

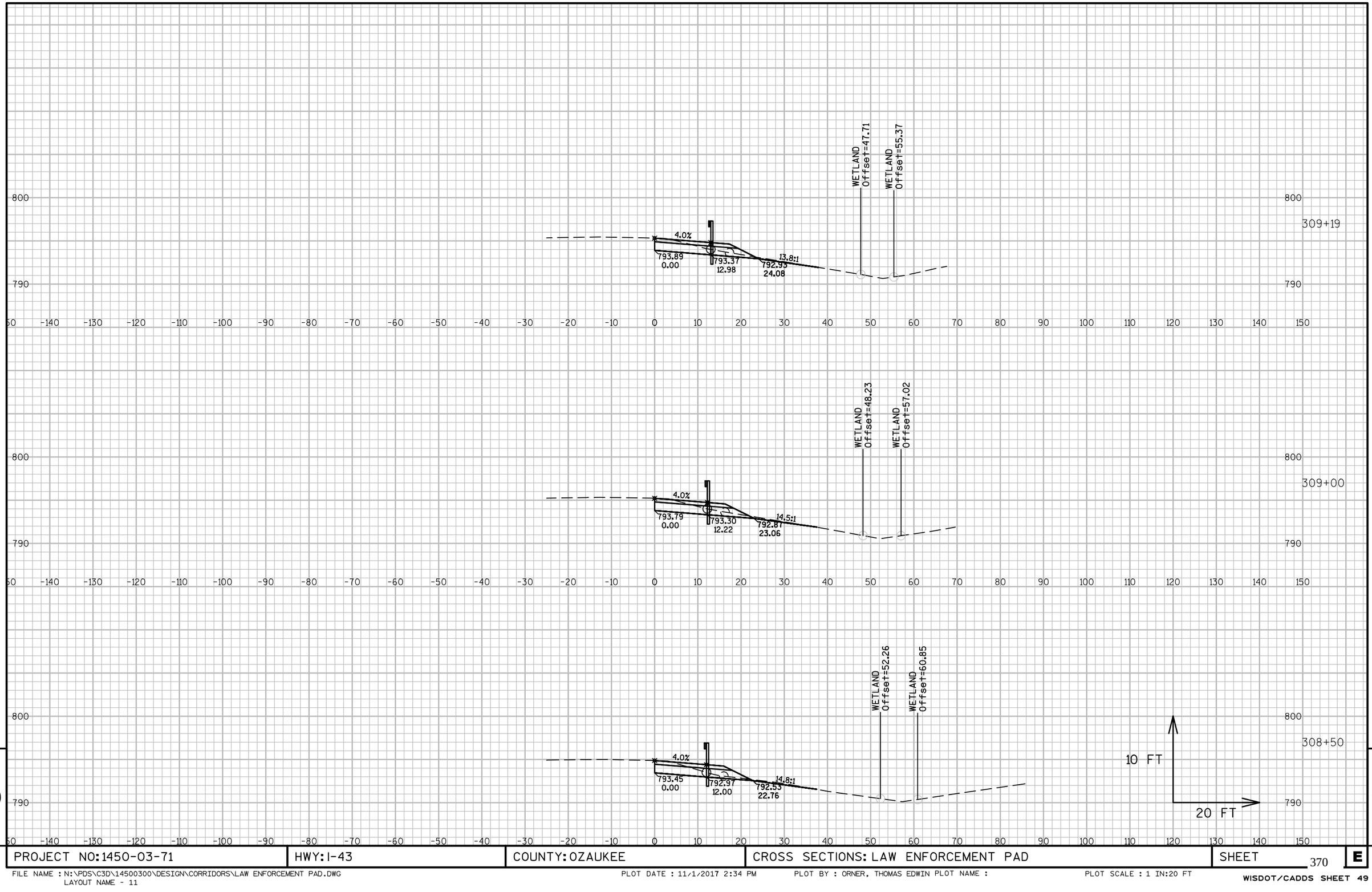


PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 369 E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 10

PLOT DATE : 11/1/2017 2:33 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

9

PROJECT NO:1450-03-71	HWY:I-43	COUNTY:OZAUKEE	CROSS SECTIONS:LAW ENFORCEMENT PAD	SHEET 370	E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 11

PLOT DATE : 11/1/2017 2:34 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

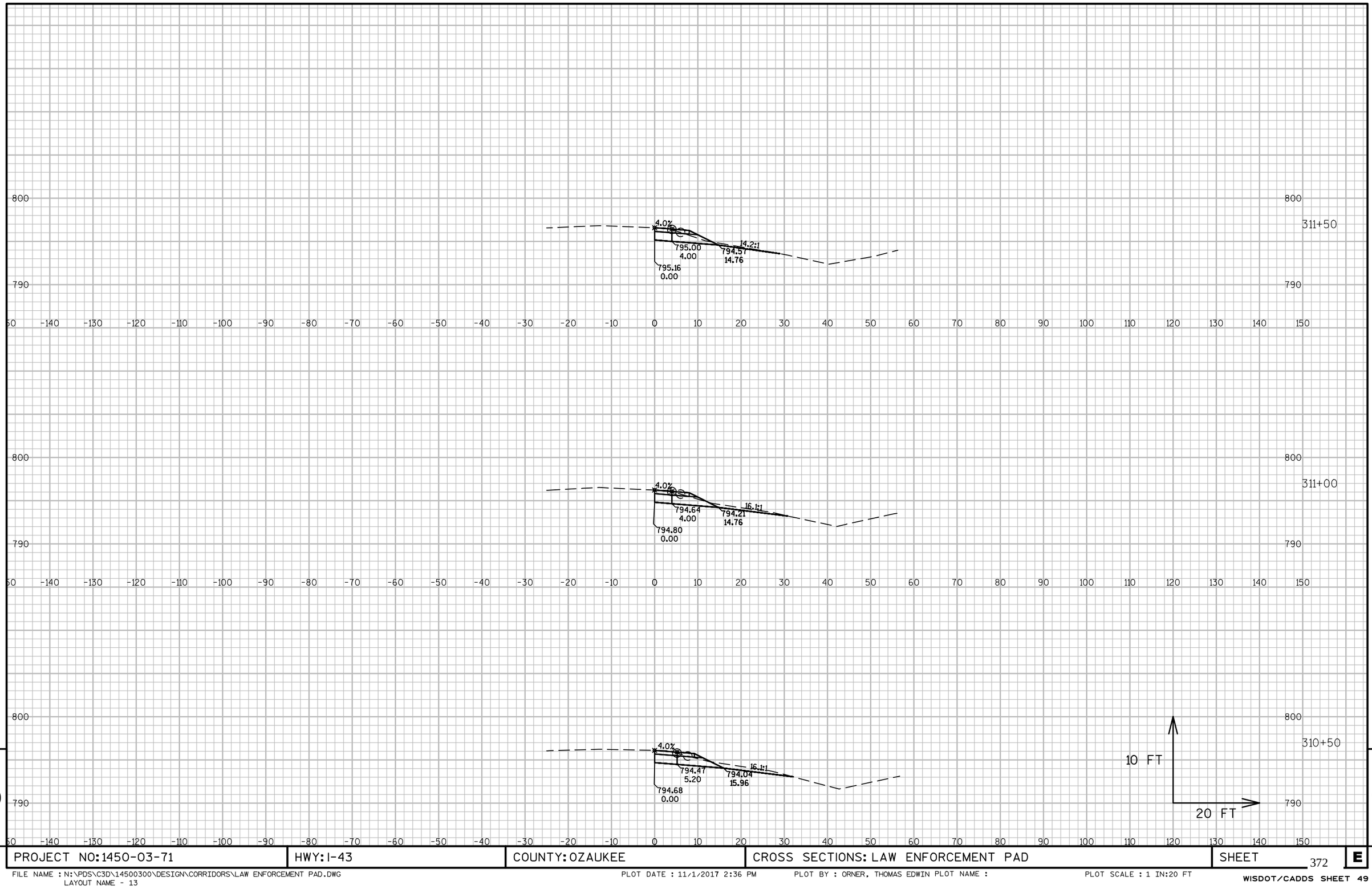
9

9

PROJECT NO:1450-03-71	HWY:I-43	COUNTY:OZAUKEE	CROSS SECTIONS:LAW ENFORCEMENT PAD	SHEET 371	E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 12

PLOT DATE : 11/1/2017 2:38 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

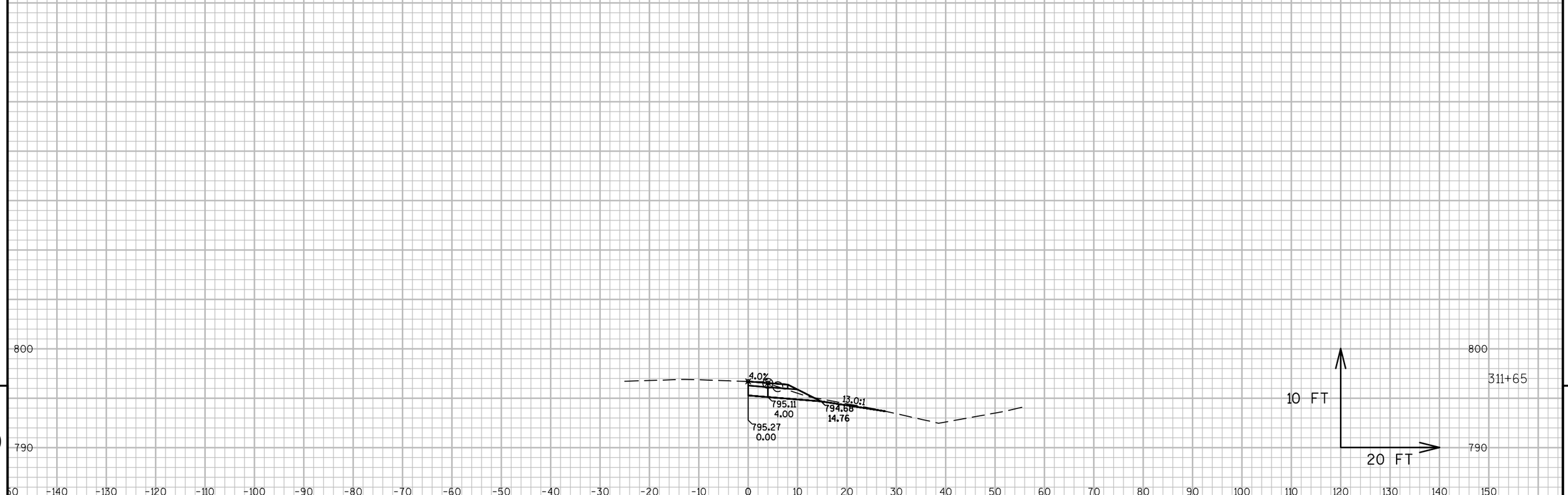
9

PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 372	E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 13

PLOT DATE : 11/1/2017 2:36 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1450-03-71	HWY: I-43	COUNTY: OZAUKEE	CROSS SECTIONS: LAW ENFORCEMENT PAD	SHEET 373	E

FILE NAME : N:\PDS\C3D\14500300\DESIGN\CORRIDORS\LAW ENFORCEMENT PAD.DWG
LAYOUT NAME - 14

PLOT DATE : 11/1/2017 2:35 PM PLOT BY : ORNER, THOMAS EDWIN PLOT NAME : PLOT SCALE : 1 IN:20 FT

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov