APRIL 2017 FEDERAL PROJECT STATE PROJECT ORDER OF SHEETS STATE OF WISCONSIN PROJECT CONTRACT 1225-08-71 WISC 2017170 Section No. 1 DEPARTMENT OF TRANSPORTATION Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantitles Right of Way Plat PLAN OF PROPOSED IMPROVEMENT Section No. 5 Section No. 6 Standard Detail Drawings Section No. 7 Sian Plates **SHEBOYGAN - MANITOWOC** Structure Plans Section No. 9 Computer Earthwork Data **STH 42 - NCL** Section No. 9 Cross Sections IH 43 TOTAL SHEETS = 142 **SHEBOYGAN COUNTY** END PROJECT 1225-08-71 STA 930+05.38'NB' X = 203690.05STATE PROJECT NUMBER Y = 228171.201225-08-71 R-23-E R-22-E Edwards STA AHEAD 873+97.71 SB STA BACK 873+97.95 SB oigeon STA AHEAD 785+09.75 SB BEGIN PROJECT 1225-08-71 STA BACK 785+06.46 SB STA 564+65.78'NB' DESIGN DESIGNATION X = 205480.40T-16-N Y = 192097.31A.A.D.T. 2018 = 24,700 Haveh 2038 = 29,100 STA AHEAD 726+50.84 SB D.H.V. = 3.300 STA BACK 726+54.94 SB D.D. = 58/42 = 16.2% Т. DESIGN SPEED = 70 MPH = 12,000,000 STA AHEAD 655+98.34 SB STA BACK 656+15.04 SB Howards CONVENTIONAL SYMBOLS Grove STA AHEAD 590+48.32 SB PROFILE STA BACK 590+29.14 SB CORPORATE LIMITS GRADE LINE ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) __LABEL____ LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY STATE OF WISCONSIN GRADE ELEVATION PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION T-15-N CULVERT (Profile View) SLOPE INTERCEPT PREPARED BY UTILITIES REFERENCE LINE NE REGION ELECTRIC EXISTING CULVERT FIBER OPTIC B. HAEN PROPOSED CULVERT (Box or Pipe) SANITARY SEWER C. KAROW COMBUSTIBLE FLUIDS LAYOUT STORM SEWER 2 MI. TELEPHONE HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, SHEBOYGAN COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID PPROVED FOR THE DEPARTMENT WATER MARSH AREA UTILITY PEDESTAL DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. TOTAL NET LENGTH OF CENTERLINE = 6.912 MI. POWER POLE ₫ WOODED OR SHRUB AREA TELEPHONE POLE ø

GENERAL NOTES

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

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL CONTINUOUSLY REINFORCED CONCRETE REPAIRS ARE SEVEN (7) FEET IN LENGTH UNLESS OTHERWISE NOTED IN THE PLANS.

COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

CONTACT: CORMAC MCINNIS WISDOT-NE REGION 944 VANDERPERREN WAY GREEN BAY, WI 54304 920-492-5638 cormac.mcinnis@dot.wi.gov

DNR AREA LIAISON

JAY SCHIEFELBEIN DNR NORTHEAST REGIONAL HEADQUARTERS 2984 SHAWANO AVE. GREEN BAY, WI 54913 920-662-5119 JEREMIAH.SCHIEFELBEIN@WISCONSIN.GOV

UTILITIES

ALLIANT ENERGY - ELECTRIC
4902 N BILTMORE LANE
MADISON, WI 53718
ATTN: JASON HOGAN
PHONE (W): 608-458-4871
PHONE (W): 608-858-7395
EMAIL: JASONHOGAN@ALLIANTENERGY.COM

TDS TELECOM - COMMUNICATIONS
10 COLLEGE AVE.
APPLETON, WI 54911
ATTN: STEVE JAKUBIEC
PHONE (W): 920-882-4166
PHONE (M): 920-562-7221
EMAIL: STEVE.JAKUBIEC@TDSTELECOM.COM

TIME WARNER CABLE - COMMUNICATIONS
3520 E DESTINATION DR.
APPLETON, WI 54915
ATTN: STEVE STORM
PHONE (W): 414-908-4789
PHONE (W): 414-939-4106
EMAIL: STEVEN.STORM@TWCABLE.COM

TOWN OF SHEBOYGAN - SEWER
1512 NORTH 40TH ST.
SHEBOYGAN, WI 53081
ATTN: BILL BLASHKA
PHONE (W): 920-451-2320
EMAIL: WILLIAMBLASHKA@TOWNOFSHEBOYGAN.ORG

WINDSTREAM KDL - COMMUNICATIONS 13935 BISHOPS DR. BROOKFIELD, WI 53005 ATTN: NATHAN BECKER PHONE (M: 414-313-9032 EMAIL: NATHAN. BECKER@WINDSTREAM.COM

WISCONSIN DEPARTMENT OF TRANSPORTATION - COMMUNICATIONS 433 W. ST. PAUL AVE.
MILWAUKEE, WI 53203-3007
ATTN: JEFF MADSON
PHONE (W): 414-225-3723
EMAIL: JEFFERY.MADSON@DOT.WI.GOV

WISCONSIN PUBLIC SERVICE - GAS/PETROLEUM 700 N ADAMS ST. P.O. BOX 19001 GREEN BAY, WI 54307-9001 ATTN: KEVIN KOLB PHONE (W): 920-451-3733 EMAIL: KCKOLB@WISCONSINPUBLICSERVICE.COM



EMERGENCY CONTACT NUMBERS FOR WISCONSIN POWER AND LIGHT COMPANY

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-862-6261 GAS 24 HOUR EMERGENCY SERVICE: 1-800-862-6263

EMERGENCY CONTACT NUMBERS FOR WISCONSIN PUBLIC SERVICE

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-450-7240 GAS 24 HOUR EMERGENCY SERVICE: 1-800-450-7280

EMERGENCY CONTACT NUMBERS FOR WE ENERGIES

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-662-4797 GAS 24 HOUR EMERGENCY SERVICE: 1-800-261-5325

PROJECT NO:1225-08-71

HWY: IH 43

COUNTY: SHEBOYGAN

GENERAL NOTES

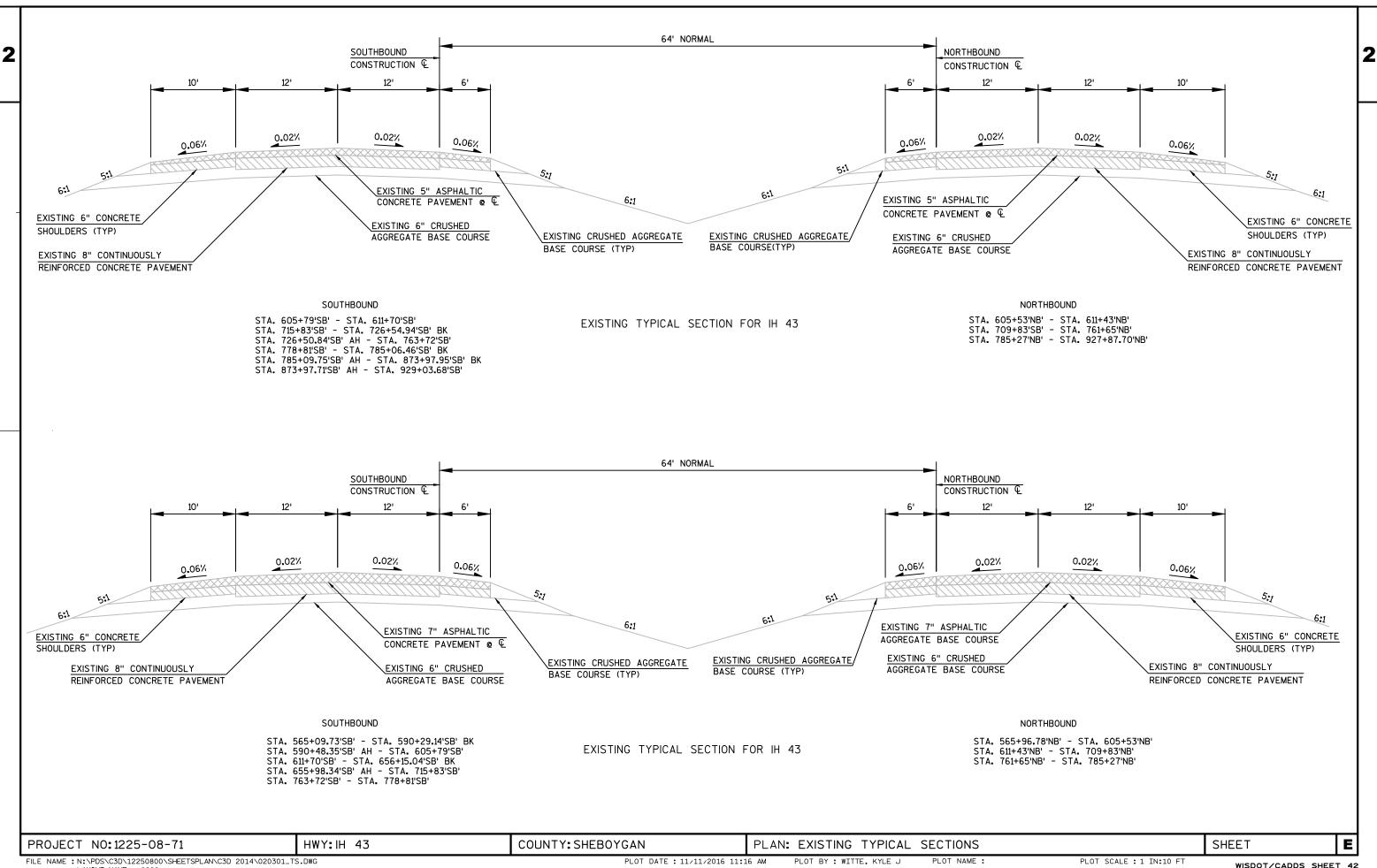
PLOT BY : WITTE, KYLE J

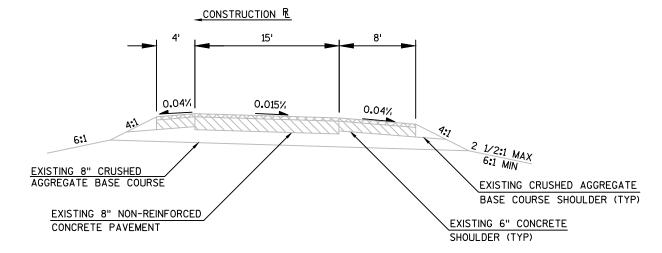
SHEET

PLOT SCALE : 1 IN:10 FT

E

END PROJECT 1225-08-71 STA 930+05.38'NB' STA 662+52.00'NB' __ STA 715+14.00'NB' - STA 873+28.00'NB' __ STA 768+18.00'NB' - STA 820+72.00'NB' STA 608+34.00'NB' IH 43 윤 STA AHEAD 655+98.34'SB' EQUATION - STA AHEAD 785+09.75'SB' STA BACK 785+06.46'SB' - STA AHEAD 726+50.84'SB' EQUATION - STA AHEAD 873+97.71'SB' - EQUATION STA BACK 873+97.95'SB' - STA AHEAD 590+48.32'SB' EQUATION STA BACK 590+29.14'SB' BEGIN PROJECT 1225-08-71 STA 564+65.78'NB' PROJECT NO:1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN SHEET E PLAN OVERVIEW PLOT SCALE : 1 IN:0.5 MI FILE NAME : N:\PDS\C3D\12250800\SHEETSPLAN\C3D 2014\020201_PO.DWG PLOT DATE: 11/11/2016 12:45 PM PLOT BY: WITTE, KYLE J PLOT NAME : WISDOT/CADDS SHEET 42





EXISTING TYPICAL SECTION FOR STH 42 RAMPS

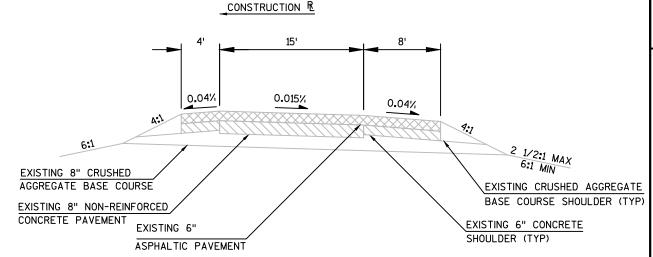
STA. 568+56.03'NE' - STA. 572+54.03'NE'
STA. 573+99.67'NW' - STA. 576+13.67'NW'

EXISTING 3" CRUSHED AGGREGATE

BASE COURSE SHOULDER (TYP)

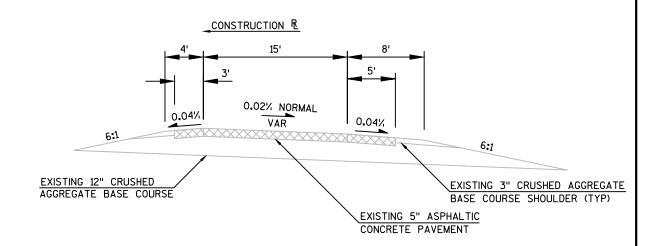
EXISTING 5" ASPHALTIC CONCRETE PAVEMENT

EXISTING TYPICAL SECTION FOR ROWE ROAD RAMP STA. 28+58.85'SW' - STA. 32+00.00'SW'



EXISTING TYPICAL SECTION FOR STH 42 RAMPS

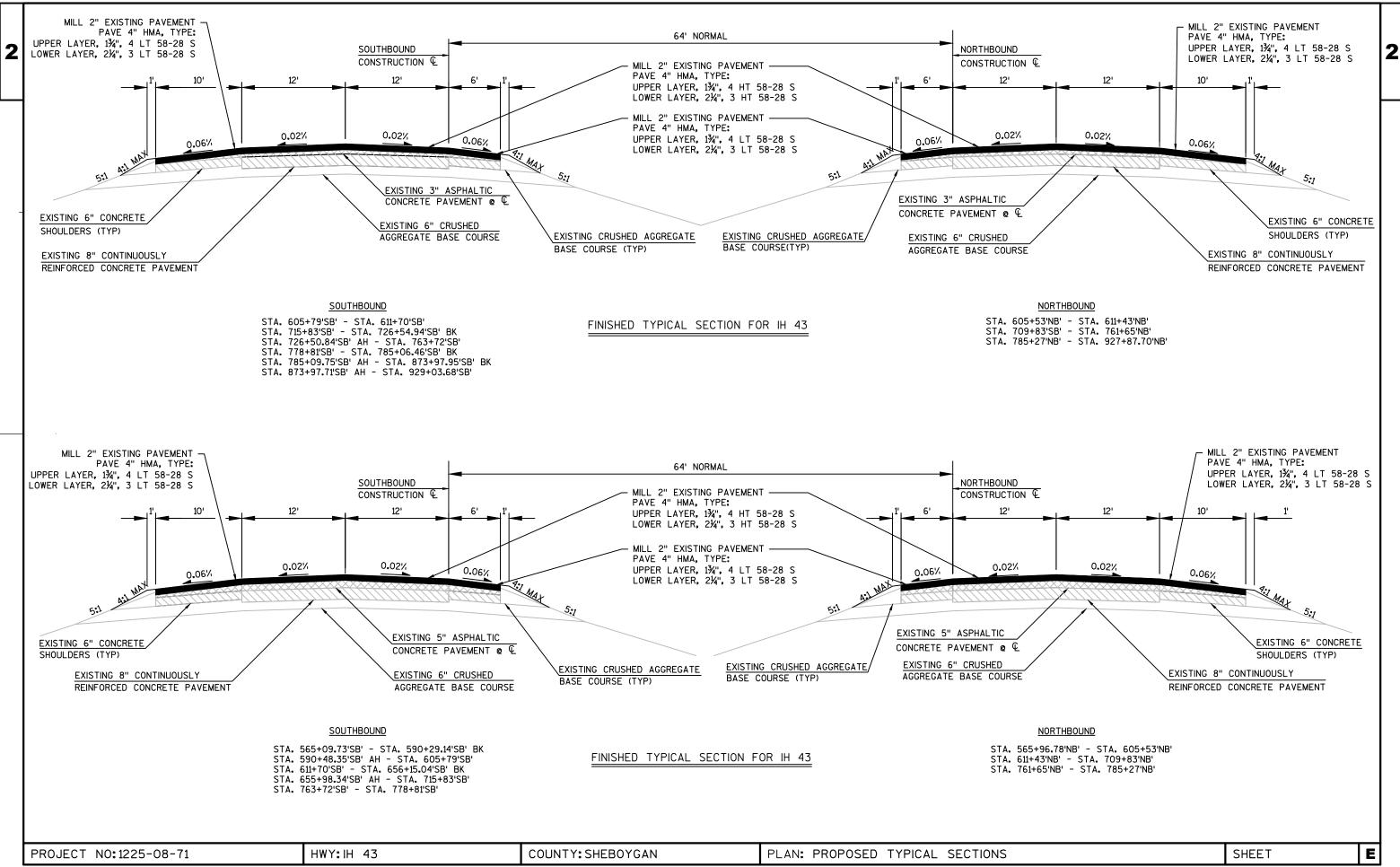
STA. 572+54.03'NE' - STA. 577+75.16'NE'
STA. 576+13.67'NW' - STA. 579+85.74'NW'



EXISTING TYPICAL SECTION FOR ROWE ROAD RAMP

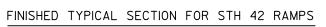
STA. 50.00'SE' - STA. 54+00.03'SE'

PROJECT NO:1225-08-71 HWY: H 43 COUNTY: SHEBOYGAN PLAN: EXISTING TYPICAL SECTIONS SHEET **E**



FINISHED TYPICAL SECTION FOR STH 42 RAMPS

STA. 572+54.03'NE' - STA. 577+75.16'NE' STA. 576+99.67'NW' - STA. 579+85.74'NW'



_CONSTRUCTION R

4'

0.04%

EXISTING 8" CRUSHED

AGGREGATE BASE COURSE

CONCRETE PAVEMENT

EXISTING 8" NON-REINFORCED

15'

0.015%

PAVE 2" HMA, TYPE 4 HT 58-28 S

0.04%

PAVE 2" HMA, TYPE 4 LT 58-28 S (TYP.)

2 1/2:1 MAX 6:1 MIN

EXISTING 6" CONCRETE

SHOULDER (TYP)

EXISTING CRUSHED AGGREGATE

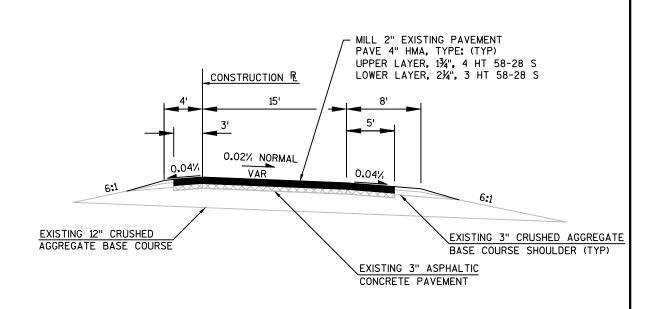
BASE COURSE SHOULDER (TYP)

STA. 568+56.03'NE' - STA. 572+54.03'NE' STA. 573+99.67'NW' - STA. 576+13.67'NW'

MILL 2" EXISTING PAVEMENT -PAVE 4" HMA, TYPE: UPPER LAYER, 13/4", 4 HT 58-28 S CONSTRUCTION R_ LOWER LAYER, 21/4", 3 HT 58-28 S 15' MILL 2" EXISTING PAVEMENT 3' PAVE 4" HMA, TYPE: (TYP) UPPER LAYER, 13/4", 4 LT 58-28 S 0.02% LOWER LAYER, 21/4", 3 LT 58-28 S NORMAL 0.02½ NORMAL 0.02% NORMAL 6:1 EXISTING 12" CRUSHED EXISTING 3" CRUSHED AGGREGATE AGGREGATE BASE COURSE BASE COURSE SHOULDER (TYP) EXISTING 3" ASPHALTIC CONCRETE PAVEMENT

FINISHED TYPICAL SECTION FOR ROWE ROAD RAMP

STA. 28+58.85'SW' - STA. 32+00.00'SW'



FINISHED TYPICAL SECTION FOR ROWE ROAD RAMP

STA. 50.00'SE' - STA. 54+00.03'SE'

HWY: IH 43 FILE NAME : N:\PDS\C3D\12250800\SHEETSPLAN\C3D 2014\020302_TS.DWG

PROJECT NO: 1225-08-71

COUNTY: SHEBOYGAN PLAN: PROPOSED TYPICAL SECTIONS

PLOT BY : WITTE, KYLE J

PLOT SCALE : 1 IN:10 FT

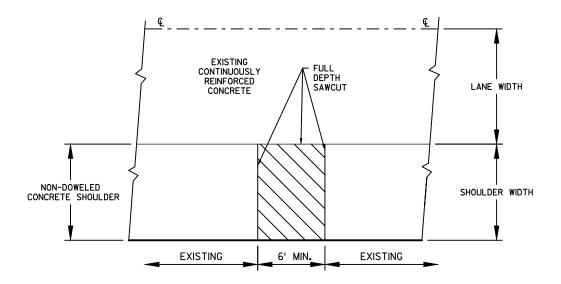
WISDOT/CADDS SHEET 42

E

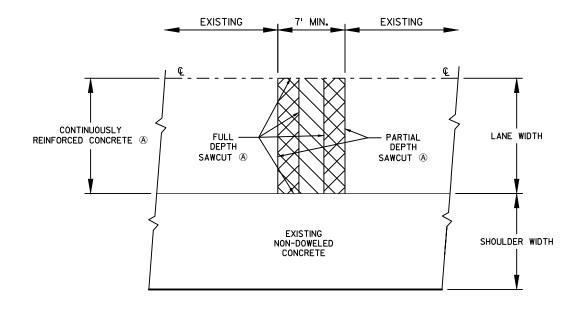
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PLOT DATE: 11/25/2016 7:39 AM

SHEET



FULL DEPTH CONCRETE PAVEMENT REMOVAL PLAN VIEW (SHOULDER ONLY)



FULL DEPTH CONCRETE PAVEMENT REMOVAL PLAN VIEW (MAINLINE ONLY)

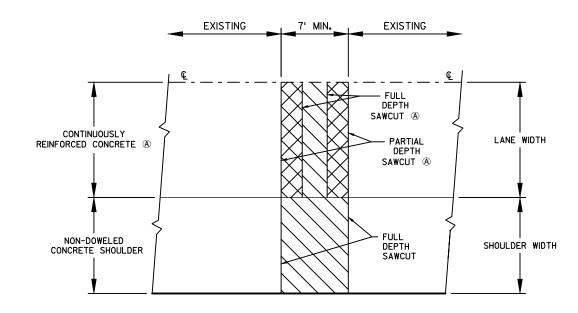
GENERAL NOTES

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. THE DEPARTMENT WILL NOT MEASURE CUTS TO REDUCE REMOVAL SLABS TO A WIDTH LESS THAN 7 FEET.

PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGHTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS OVERLAID AFTER REPAIRING.

REFER TO SDD 13A7: CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR AND REPLACEMENT FOR BASE PATCHING OF CONTINUOUSLY REINFORCED CONCRETE.



FULL DEPTH CONCRETE PAVEMENT REMOVAL PLAN VIEW (MAINLINE AND SHOULDER REPAIR)

COUNTY: SHEBOYGAN PROJECT NO:1225-08-71 **HWY: IH 43**

CONSTRUCTION DETAILS: BASE PATCHING SHEET A

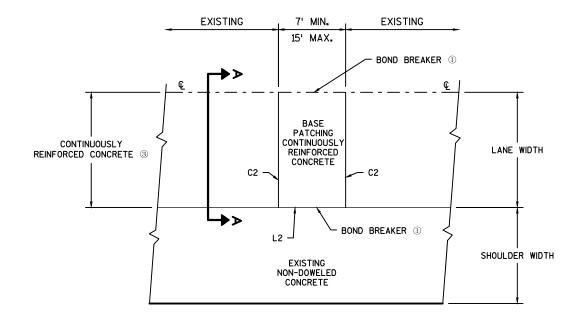
SHEET

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PLOT SCALE : 1 IN:10 FT

EXISTING CONTINUOUSLY REINFORCED LANE WIDTH ── BOND BREAKER ① BASE NON-DOWELED SHOULDER PATCHING CONCRETE SHOULDER WIDTH CONCRETE **EXISTING EXISTING** 6' MIN. 15' MAX.

> SHOULDER BASE PATCH PLAN VIEW 15' MAXIMUM LENGTH



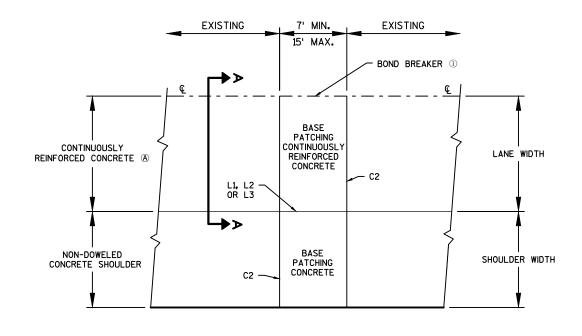
LANE AND SHOULDER BASE PATCH PLAN VIEW 15' MAXIMUM LENGTH

GENERAL NOTES

CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

- USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SHOULDER BASE PATCHES UP TO 15 FEET IN LENGTH.
- REFER TO SDD 13A7: CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR AND REPLACEMENT FOR BASE PATCHING OF CONTINUOUSLY REINFORCED CONCRETE.



LANE AND SHOULDER BASE PATCH PLAN VIEW 15' MAXIMUM LENGTH

PROJECT NO:1225-08-71 COUNTY: SHEBOYGAN CONSTRUCTION DETAILS: BASE PATCHING SHEET B HWY: IH 43

WISDOT/CADDS SHEET 42

SHEET

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SHOULDER BASE PATCH
PLAN VIEW
GREATER THAN 15' IN LENGTH

PLAN VIEW
GREATER THAN 15' IN LENGTH

HWY: IH 43

OVER 15'

NOTES

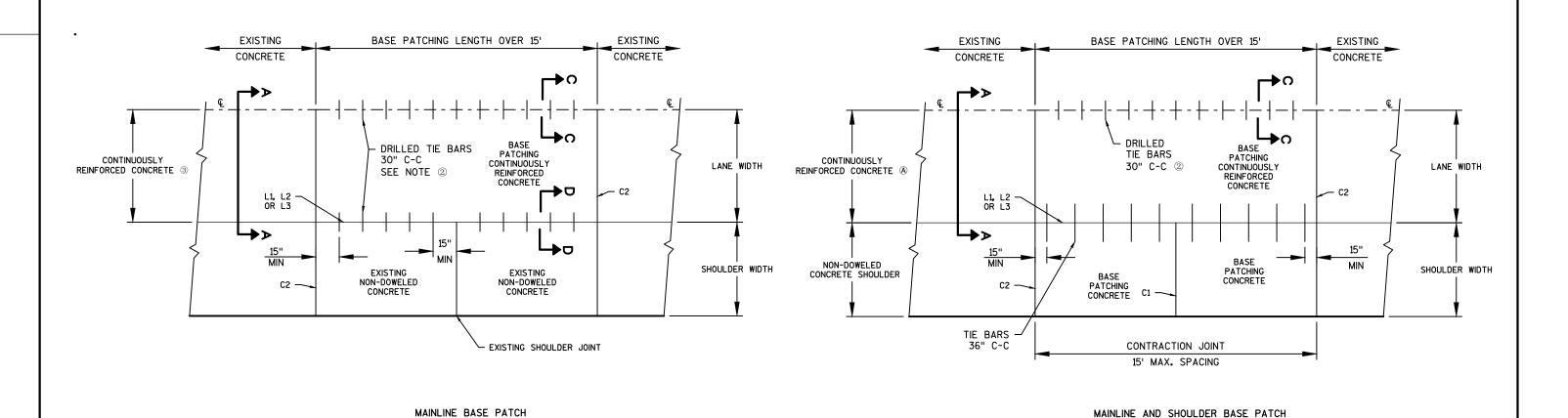
CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DRILLED TIE BARS ARE 12" NO. 6 BAR SPACED AT 30" C-C INTO EXISTING CONCRETE. TIE BARS PLACED IN NEW CONCRETE ARE 30" NO. 4 BARS SPACED AT 36". DRILLED TIE BARS WILL BE PAID UNDER THE DRILLED TIE BAR ITEM. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

DO NOT SEAL OR FILL JOINTS.

WITH THE APPROVAL OF THE ENGINEER, FOR SHOULDER PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES AND TO SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

REFER TO SDD 13A7: CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR AND REPLACEMENT FOR BASE PATCHING OF CONTINUOUSLY REINFORCED CONCRETE.



PROJECT NO:1225-08-71

COUNTY: SHEBOYGAN

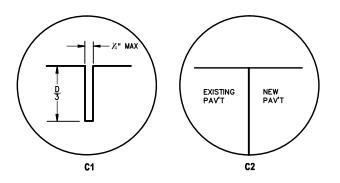
CONSTRUCTION DETAILS: BASE PATCHING SHEET C

PLAN VIEW

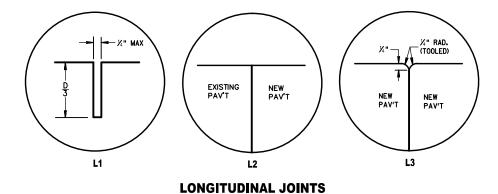
GREATER THAN 15' IN LENGTH

SHEET

Ε



TRANSVERSE JOINTS



HWY: IH 43

SECTION B-B
EXISTING LONGITUDINAL STEEL
PLACEMENT IN CRCP REPAIRS
FOR INFORMATION ONLY (A)

17 NO. 6 BARS AT 8 1/2" C-C
FOR INFORMATION ONLY

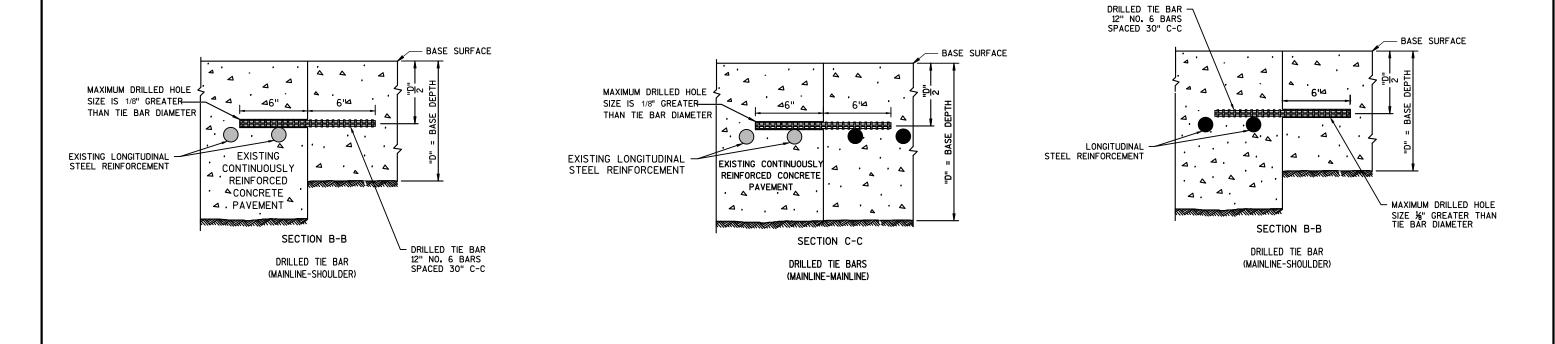
4 1/4"

TIE BAR

2-½" MIN. 3-¾" MAX.

LONGITUDINAL

JOINT



PROJECT NO:1225-08-71

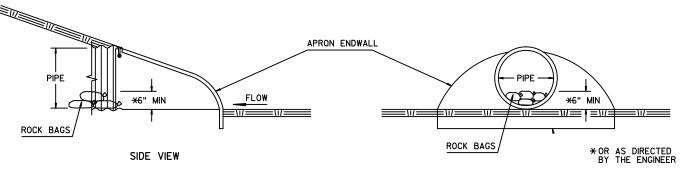
COUNTY: SHEBOYGAN

CONSTRUCTION DETAILS: BASE PATCHING SHEET D

3 3/4"

SHEET

Ε



END VIEW

WISDOT/CADDS SHEET 42

CULVERT PIPE CHECKS

200'±X UPPER LAYER ⊗ ASPHALTIC PAVEMENT 1-3/4" MIN LOWER LAYER 1-3/4" MIN VERTICAL FACE REQ'D EXISTING ASPHALTIC PAVEMENT EXISTING PAVEMENT SAW CUT REO'D FEATHERED JOINT REQ'D WITH FULL DEPTH REMOVAL DEPTH REMOVING ASPHALTIC SURFACE, BUTT JOINTS (FULL DEPTH REMOVAL OPTIONAL) SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS ASPHALTIC WEDGING (FULL DEPTH REMOVAL OPTION) REMOVING ASPHALTIC SURFACE, BUTT JOINTS (MILLING OPTION) BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS

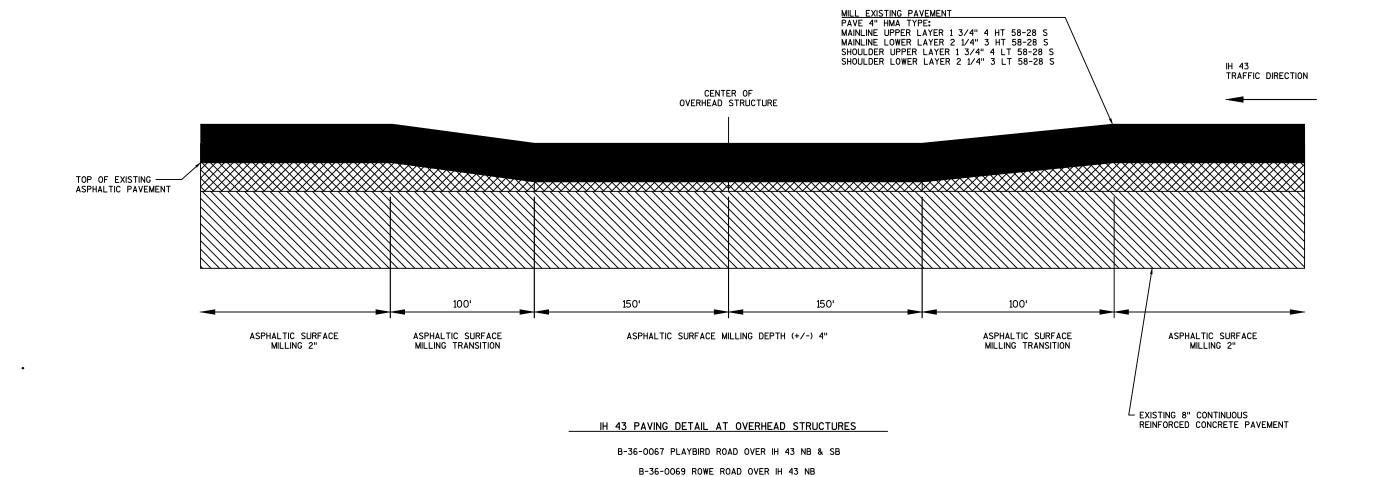
* MAINLINE/RAMPS

COUNTY: SHEBOYGAN PROJECT NO:1225-08-71 HWY:IH 43 SHEET Ε PLAN: CONSTRUCTION DETAILS PLOT DATE: 11/11/2016 12:56 PM FILE NAME : N:\PDS\C3D\12250800\SHEETSPLAN\C3D 2014\021001_CD.DWG PLOT BY : WITTE, KYLE J PLOT SCALE : 1 IN:10 FT

2

NOTES

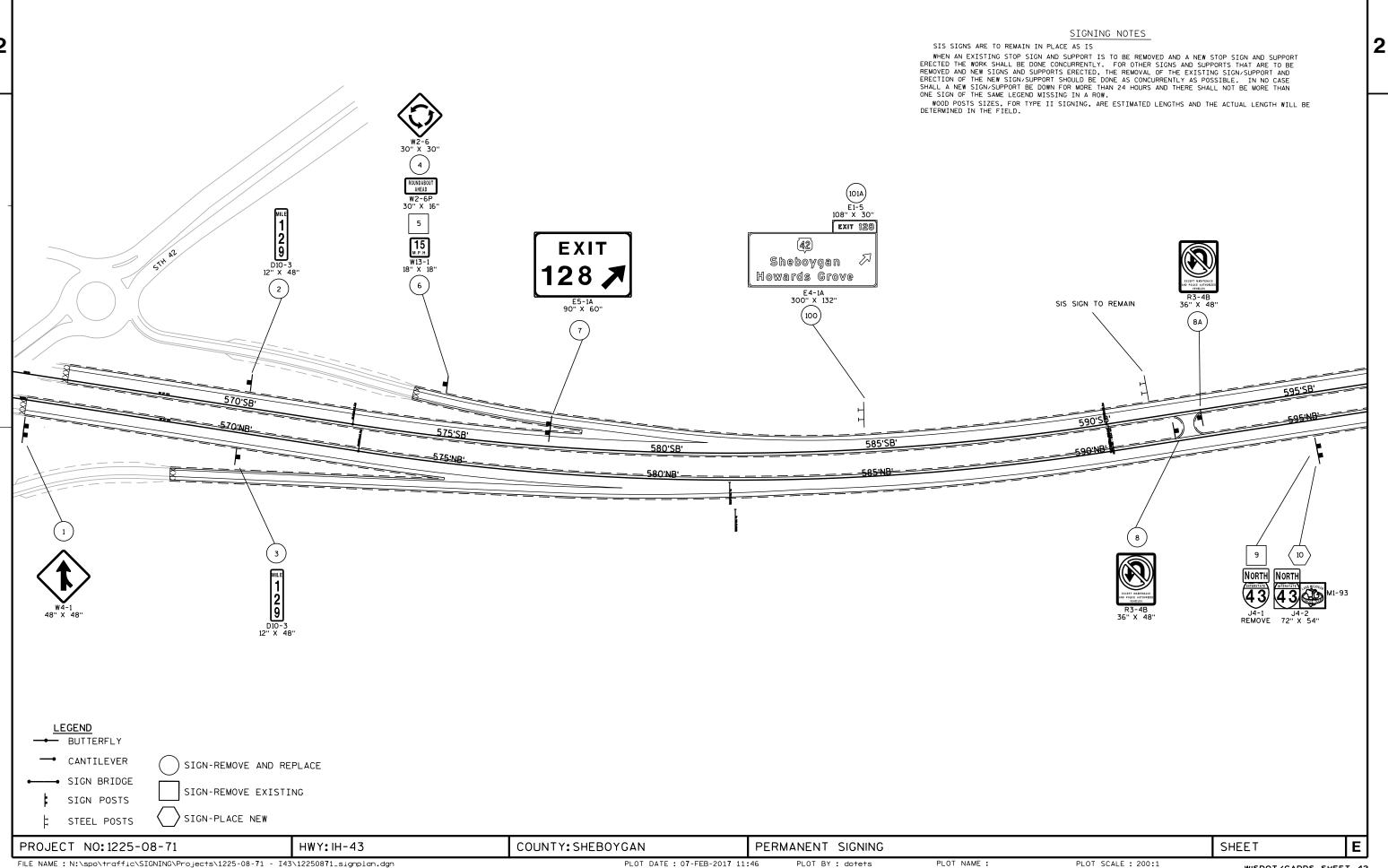
MAINTAIN MINIMUM BRIDGE CLEARANCE OF 16 FT

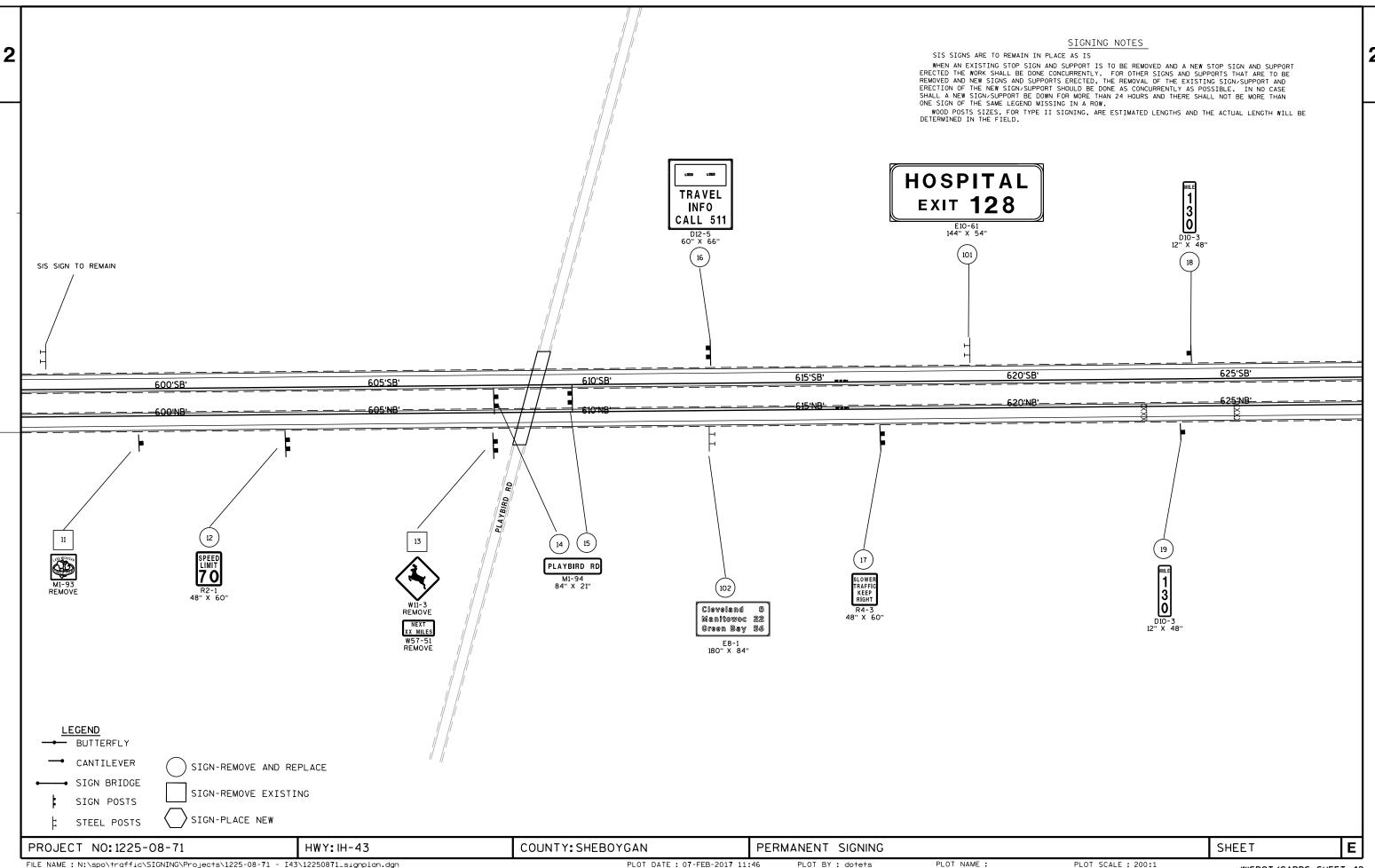


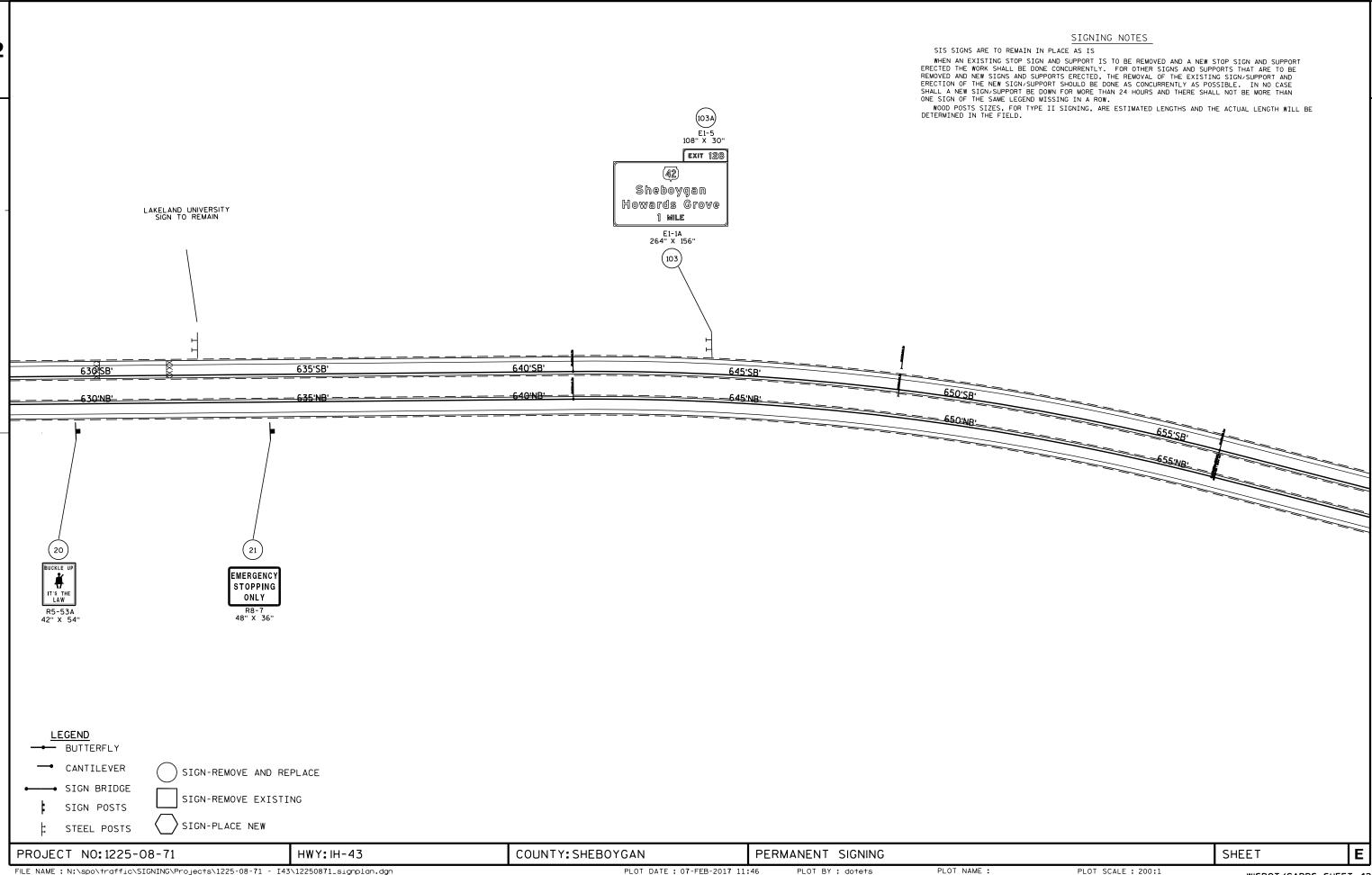
B-36-0070 CTH FF OVER IH 43 NB B-36-0072 CTH MM OVER IH 43 NB

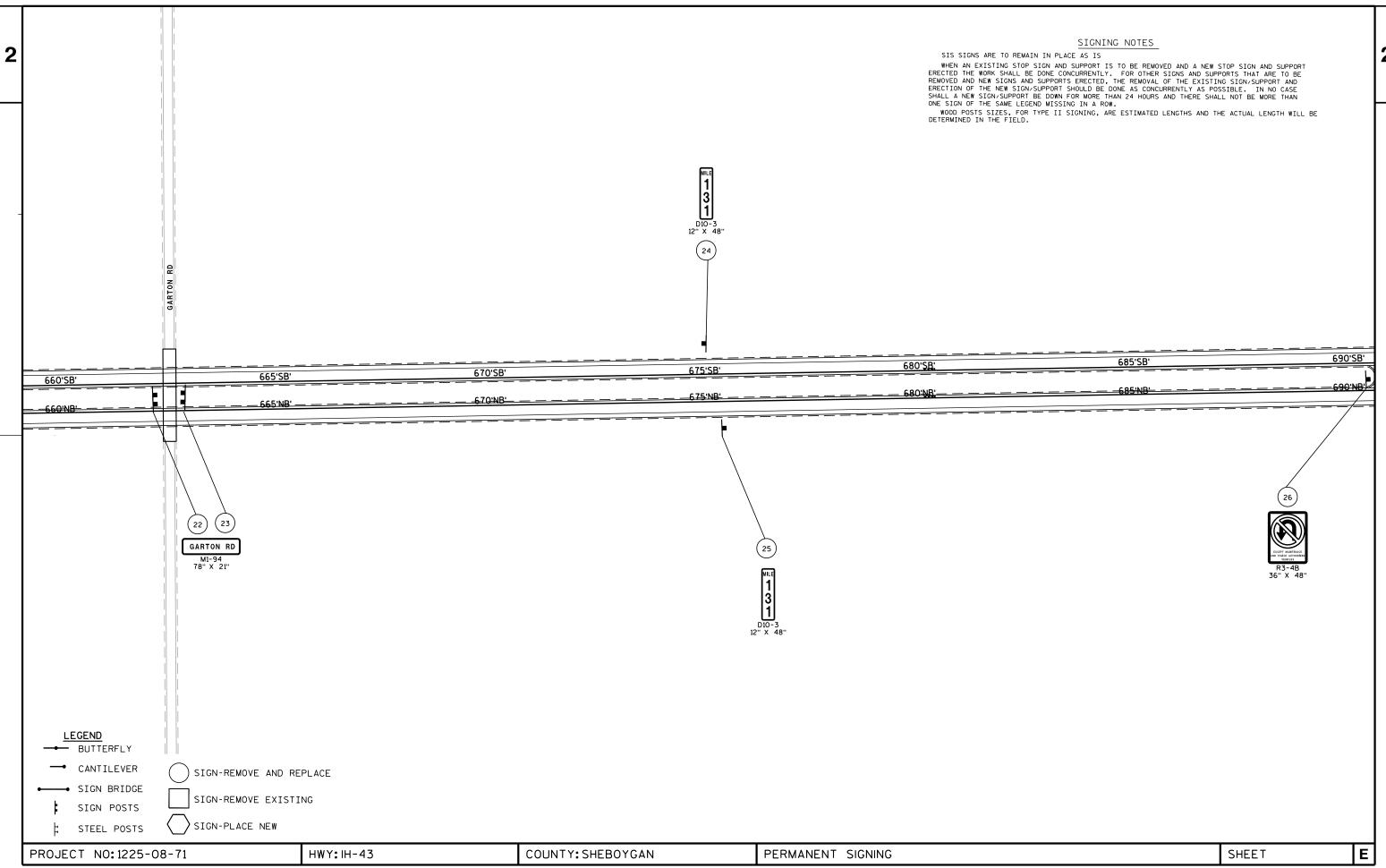
EXISTING VERTICAL BRIDGE CLEARANCE DATA										
ROADWAY	BRIDGE	OVERPASS	CLEARANCE	APPROXIMATE A NB	SPHALT DEPTHS SB					
IH 43 NB	B-36-0067	PLAYBIRD ROAD	16.04	5"						
IH 43 SB	B-36-0067	PLAYBIRD ROAD	16.17		5"					
IH 43 NB	B-36-0069	ROWE ROAD	16.27	5"						
IH 43 NB	B-36-0070	CTH FF	16.21	7"						
IH 43 NB	B-36-0072	CTH MM	16.08	5"						

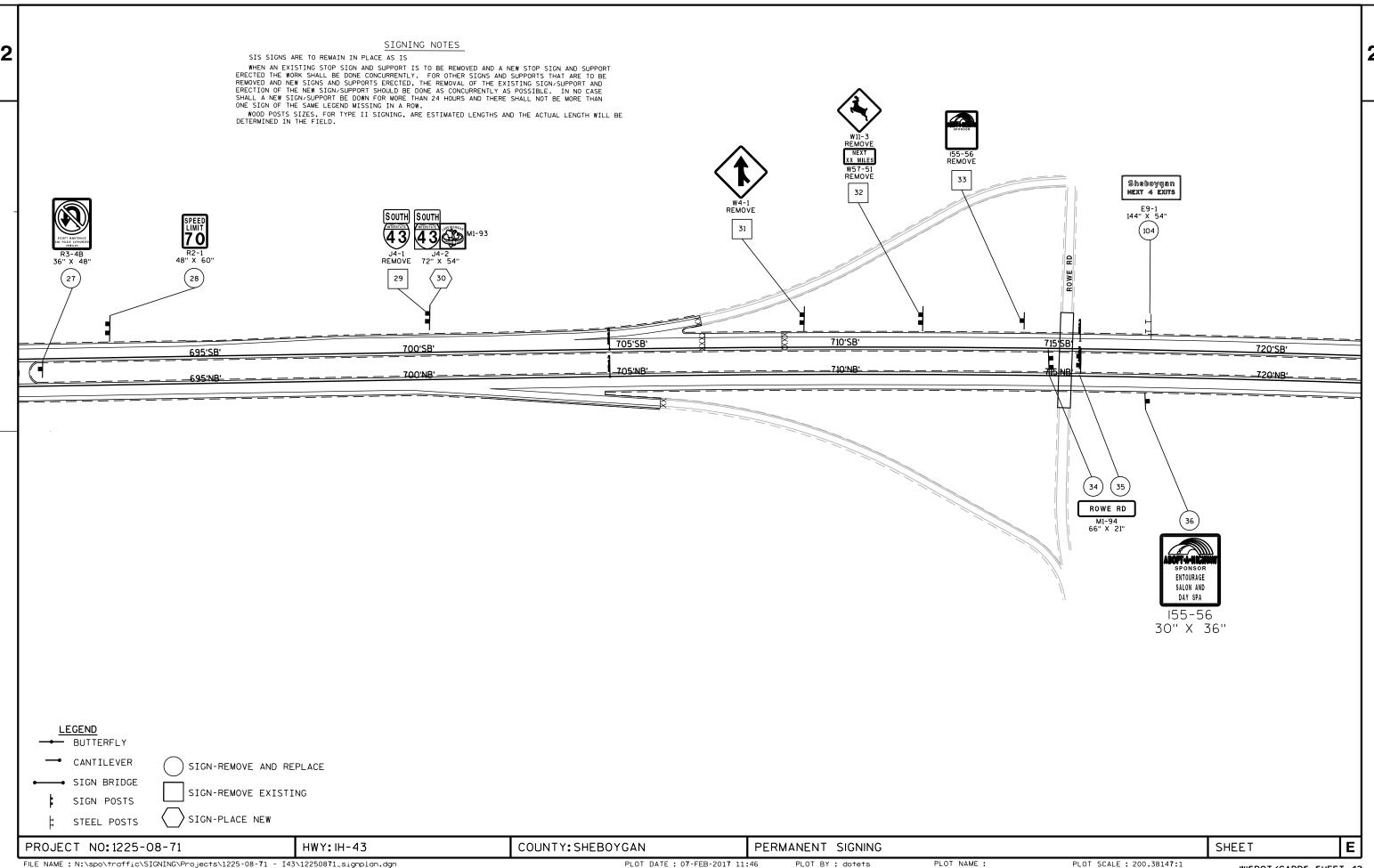
PROJECT NO:1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN CONSTRUCTION DETAILS SHEET











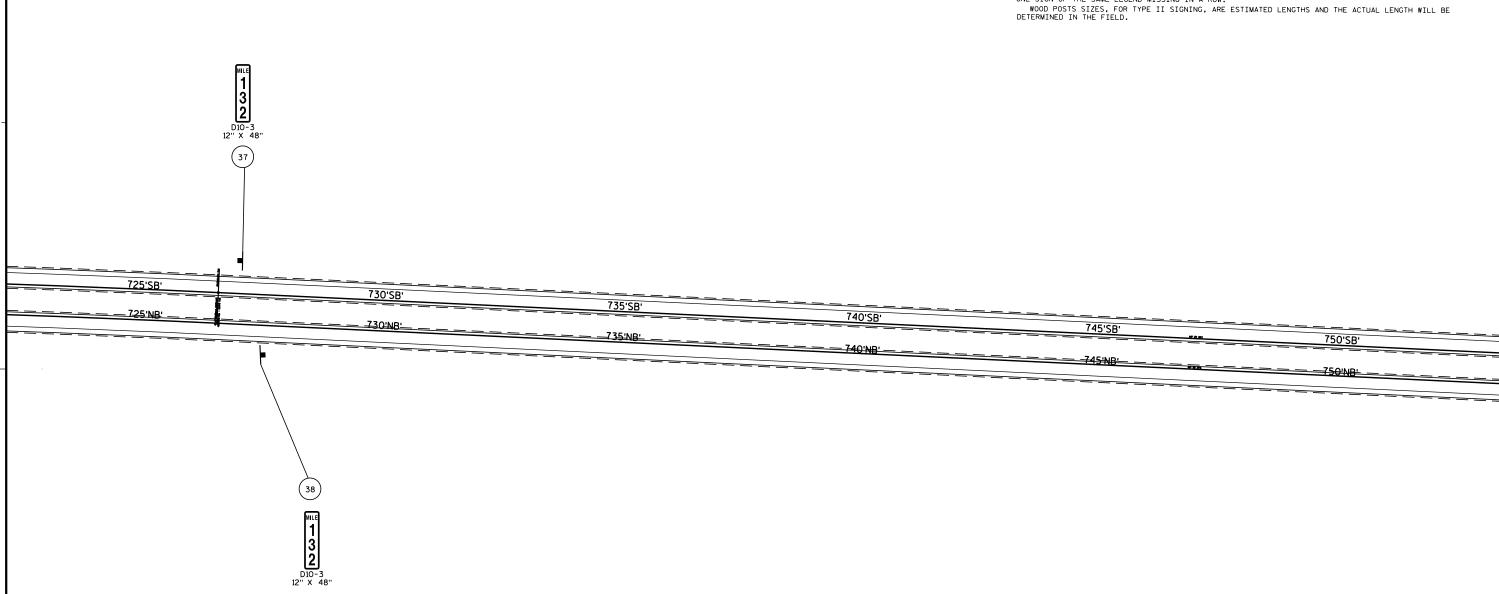
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SIGNING NOTES

SIS SIGNS ARE TO REMAIN IN PLACE AS IS

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

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



PLOT DATE: 07-FEB-2017 11:46

LEGEND

BUTTERFLY

CANTILEVER
SIGN BRIDGE
SIGN POSTS
SIGN-REMOVE AND REPLACE

SIGN POSTS
SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 1225-08-71

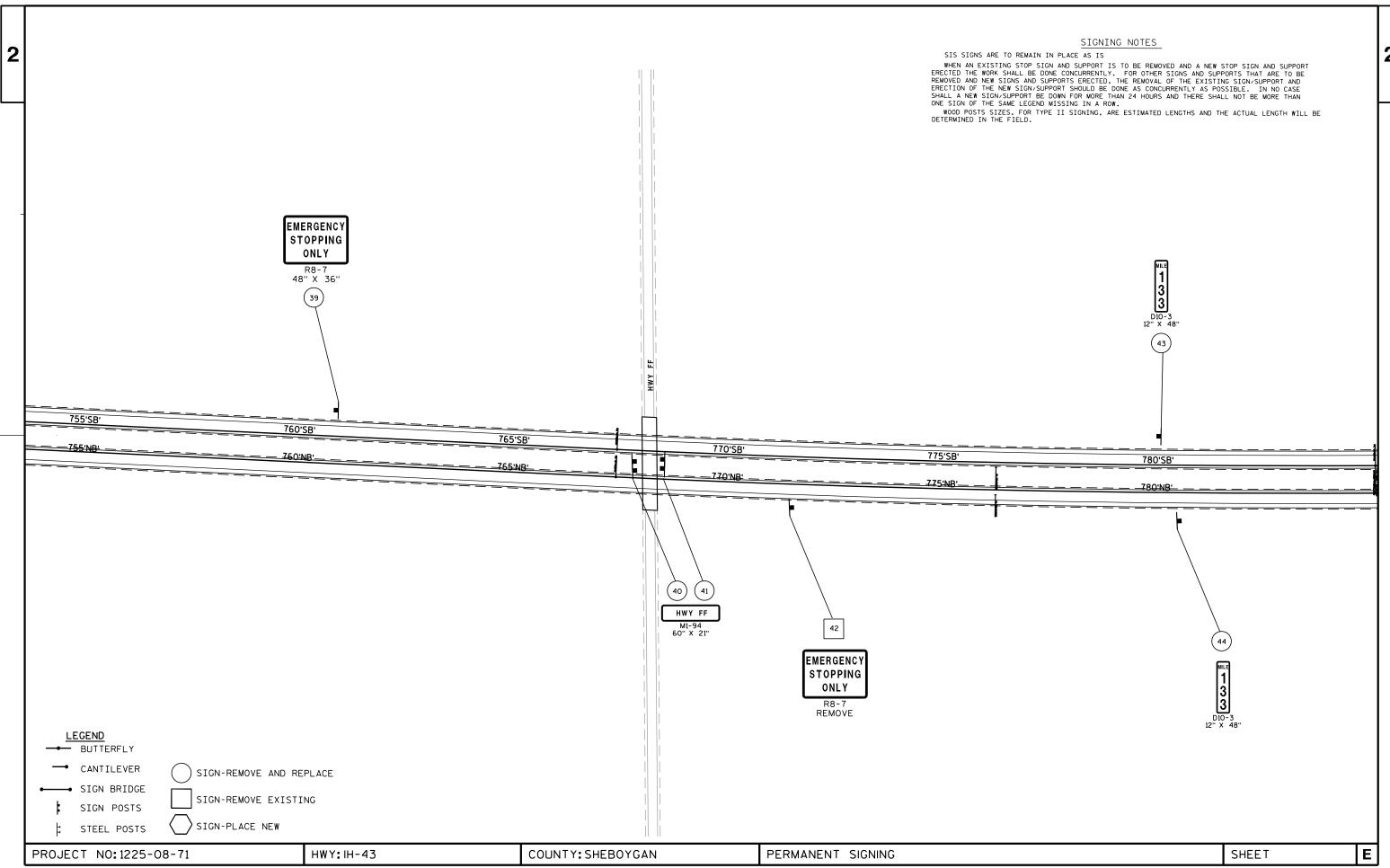
HWY: IH-43

COUNTY: SHEBOYGAN

PERMANENT SIGNING

PLOT NAME :

SHEET



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

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD. 815'SB' 800'SB' 805'SB' 810'SB' 790'NB' LEGEND → BUTTERFLY - CANTILEVER) SIGN-REMOVE AND REPLACE → SIGN BRIDGE SIGN-REMOVE EXISTING SIGN POSTS SIGN-PLACE NEW STEEL POSTS PROJECT NO: 1225-08-71 COUNTY: SHEBOYGAN SHEET HWY: IH-43 PERMANENT SIGNING PLOT NAME : PLOT SCALE: 200.95381:1

FILE NAME: N:\spo\traffic\SIGNING\Projects\1225-08-71 - I43\12250871_signplan.dgn

PLOT DATE: 07-FEB-2017 11:46

PLOT NAME :

PLOT SCALE: 200.430846:1

WISDOT/CADDS SHEET 42

FILE NAME: N:\spo\traffic\SIGNING\Projects\1225-08-71 - I43\12250871_signplan.dgn

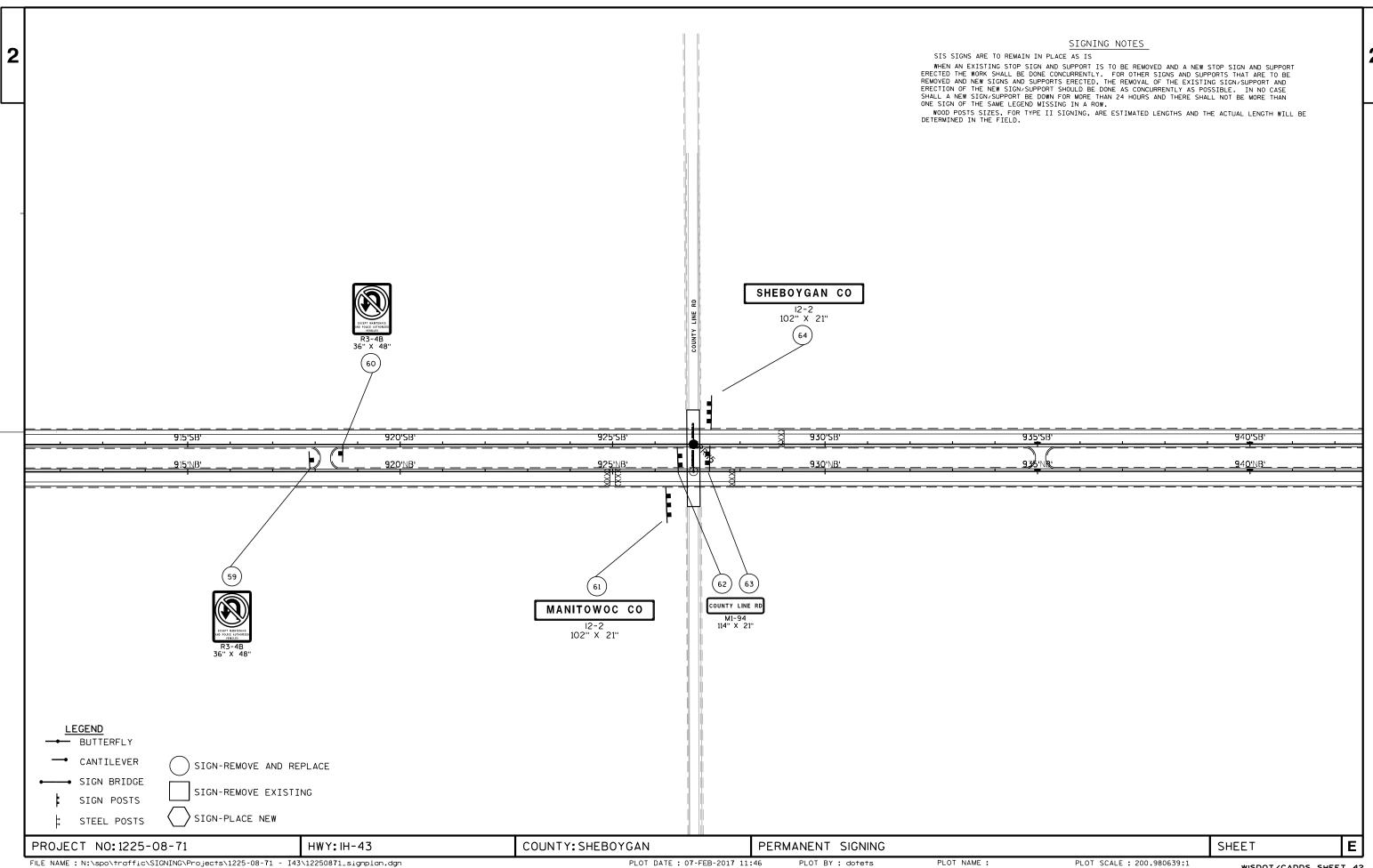
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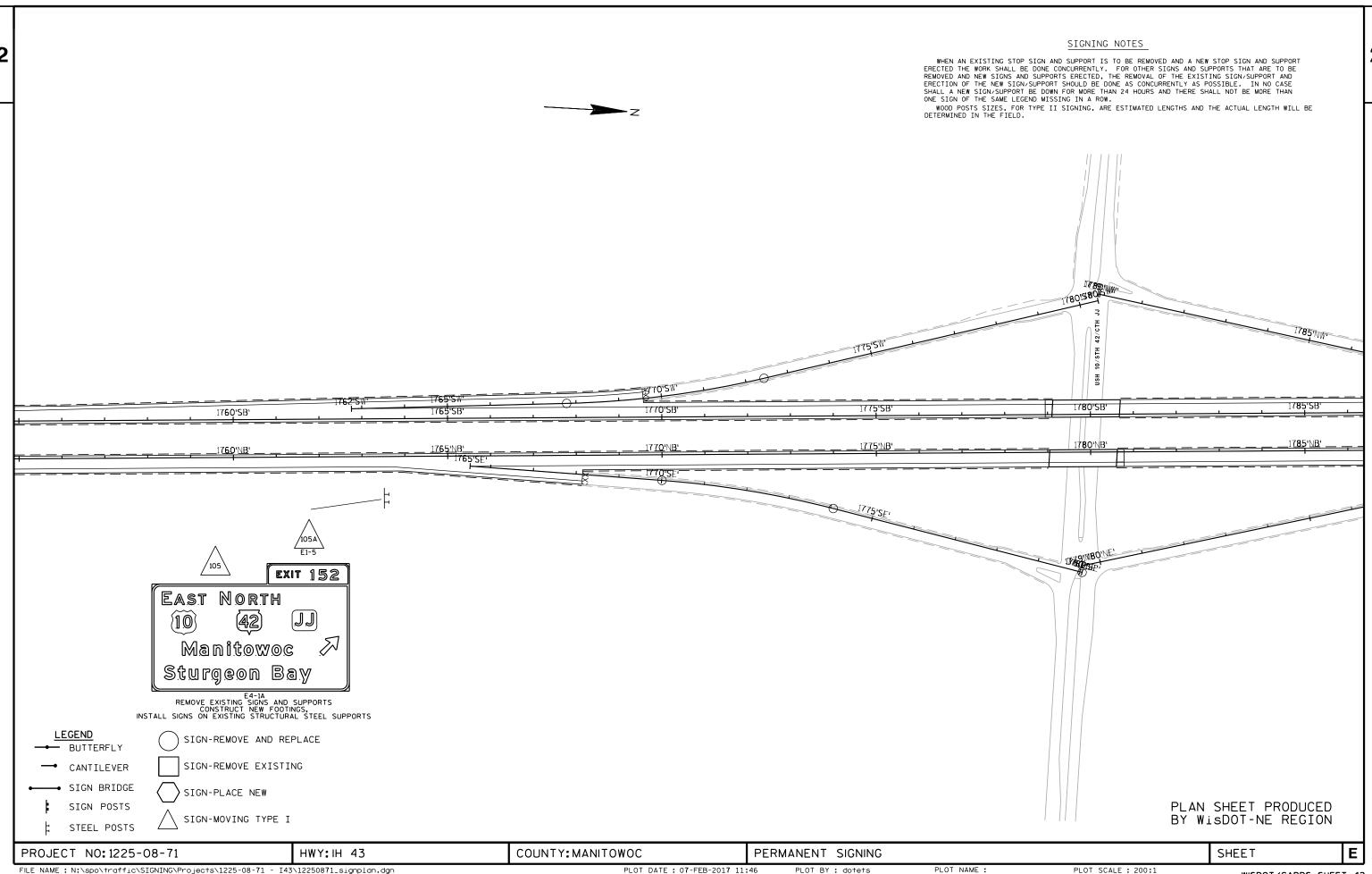
PLOT BY : dotets

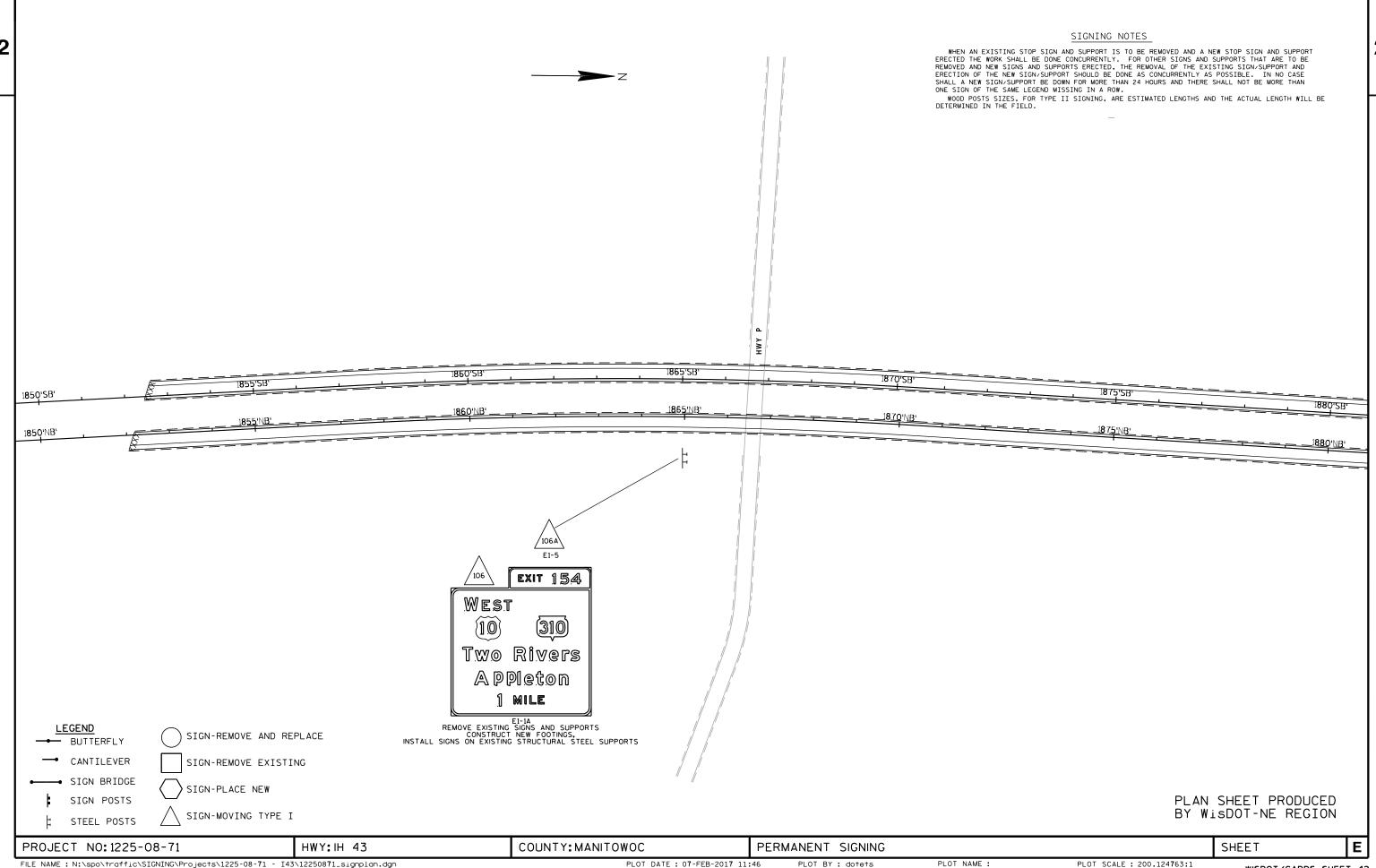
PLOT SCALE : 200.918733:1

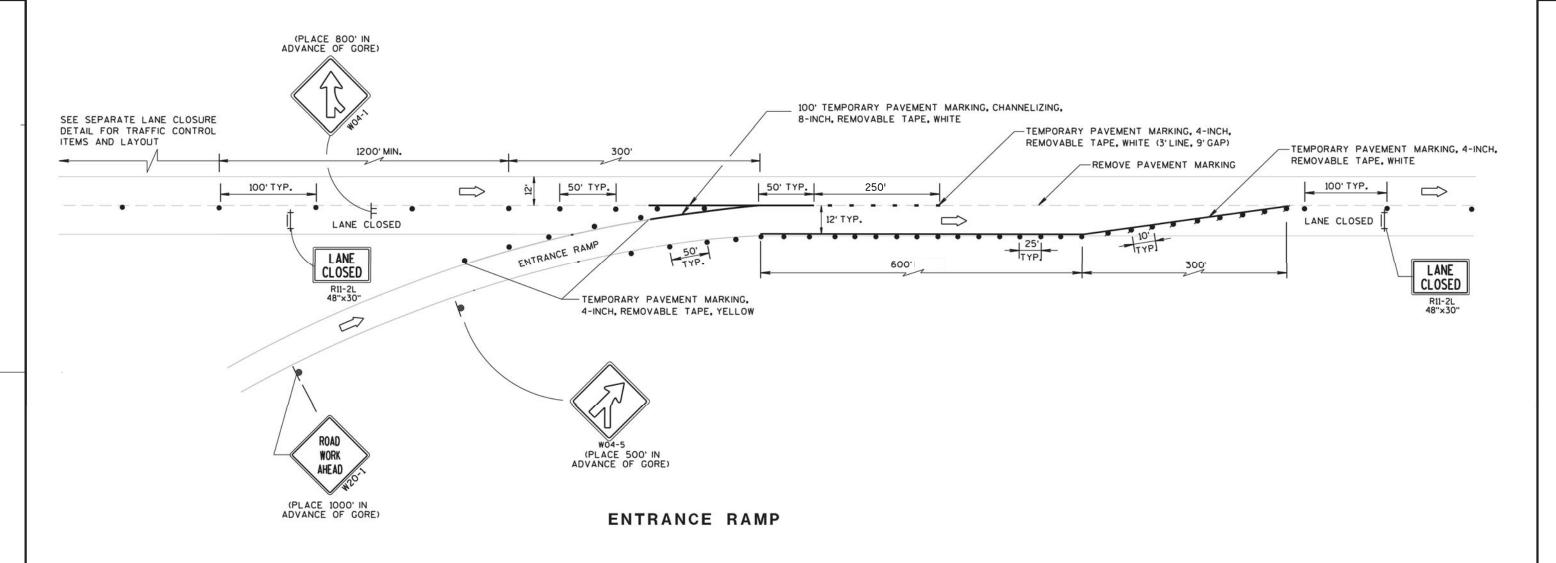
WISDOT/CADDS SHEET 42

SIGNING NOTES 2 SIS SIGNS ARE TO REMAIN IN PLACE AS IS WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW. WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD. 910,2B. 885;SB; 890,2B, 895'SB' 300i.2Bi. 902,2B. LEGEND BUTTERFLY → CANTILEVER) SIGN-REMOVE AND REPLACE → SIGN BRIDGE SIGN-REMOVE EXISTING SIGN POSTS SIGN-PLACE NEW STEEL POSTS COUNTY: SHEBOYGAN PERMANENT SIGNING PROJECT NO: 1225-08-71 HWY: IH-43 SHEET PLOT NAME :









GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

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

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM
TRAFFIC CONTROL DRUM WITH
TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH
ATTACHED SIGN

DIRECTION OF TRAFFIC

SHEET

LEGEND

PROJECT NO: 1225-08-71 HWY: IH 43

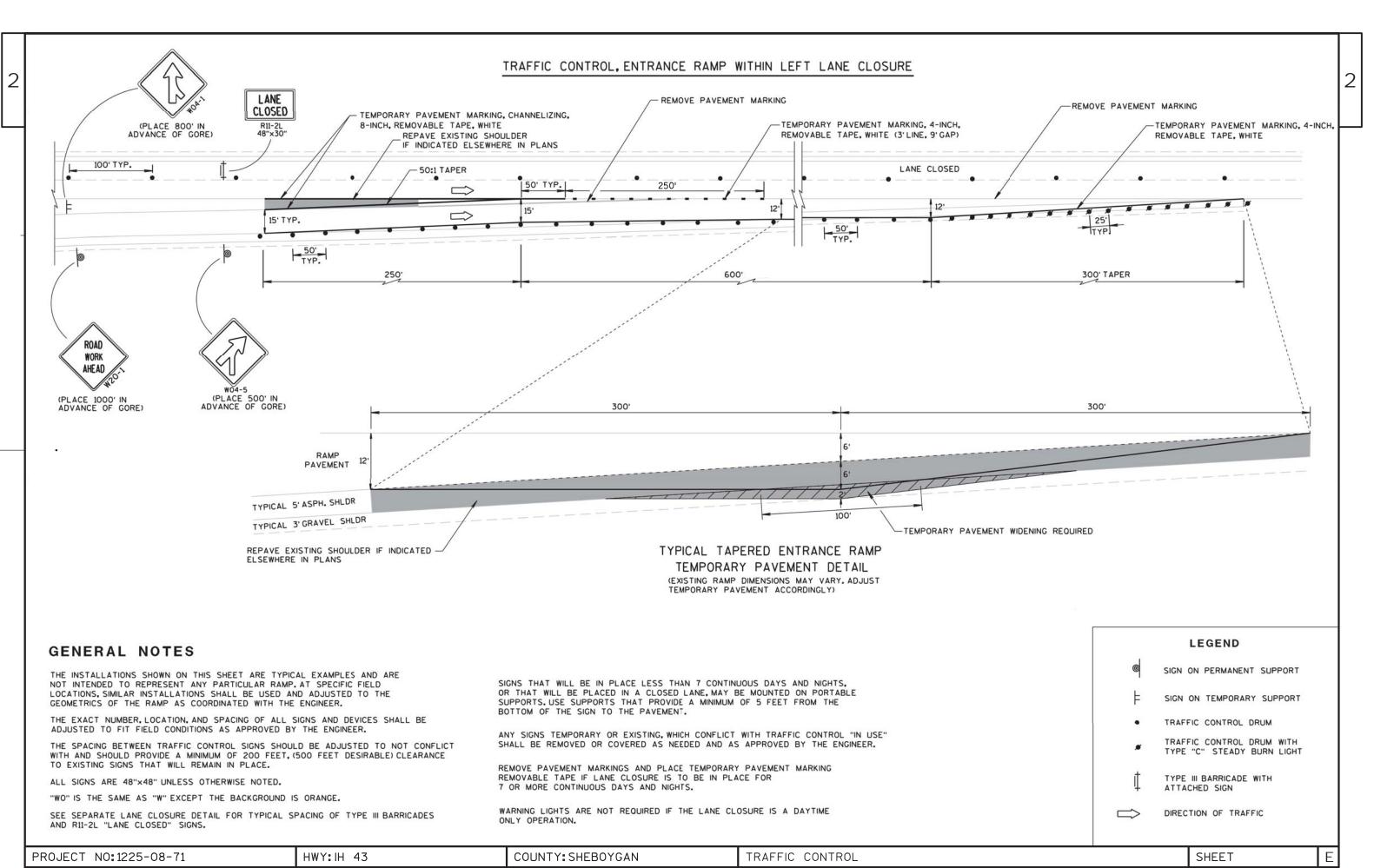
COUNTY: SHEBOYGAN

TRAFFIC CONTROL

PLOT NAME :

PLOT SCALE : ********

WISDOT/CADDS SHEET 42



LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMENENT SUPPORT

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TRAFFIC CONTROL DRUM

FLASHING ARROW BOARD ZIV

TYPE "A" WARNING LIGHT (FLASHING)

-x- REMOVING PAVEMENT MARKING

□ DIRECTION OF TRAFFIC

WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

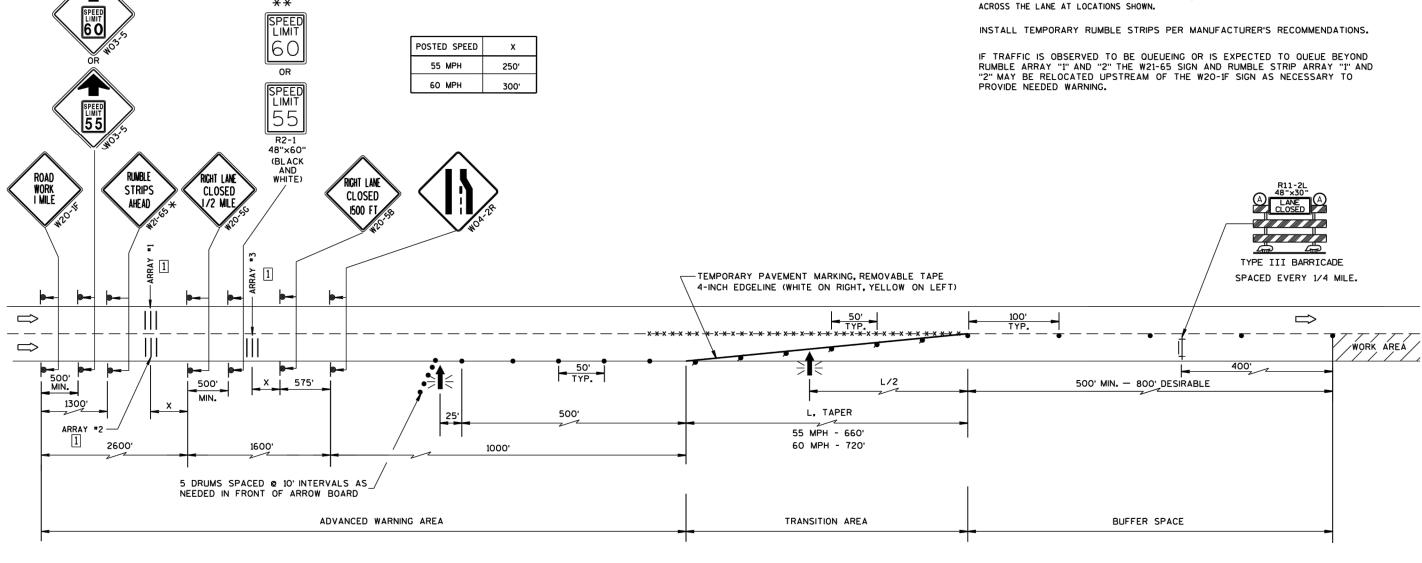
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

- ** A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIREABLE) BEYOND THE "FND OF ROADWORK" SIGN.
 - [1] EACH RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE



FILE NAME : N:\PDS\C3D\12250800\SHEETSPLAN\C3D 2014\026001_S1.DWG

PROJECT NO:1225-08-71

COUNTY: SHEBOYGAN

PLOT BY : WITTE, KYLE J

TRAFFIC CONTROL

PLOT NAME :

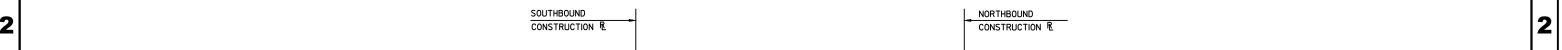
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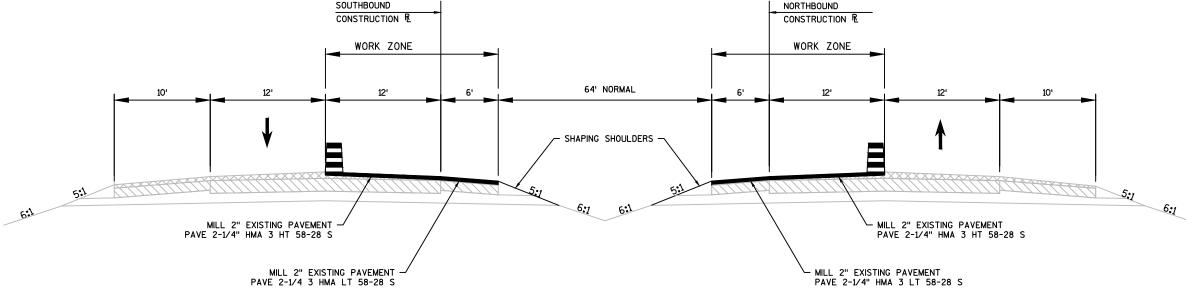
WISDOT/CADDS SHEET 42

E

SHEET

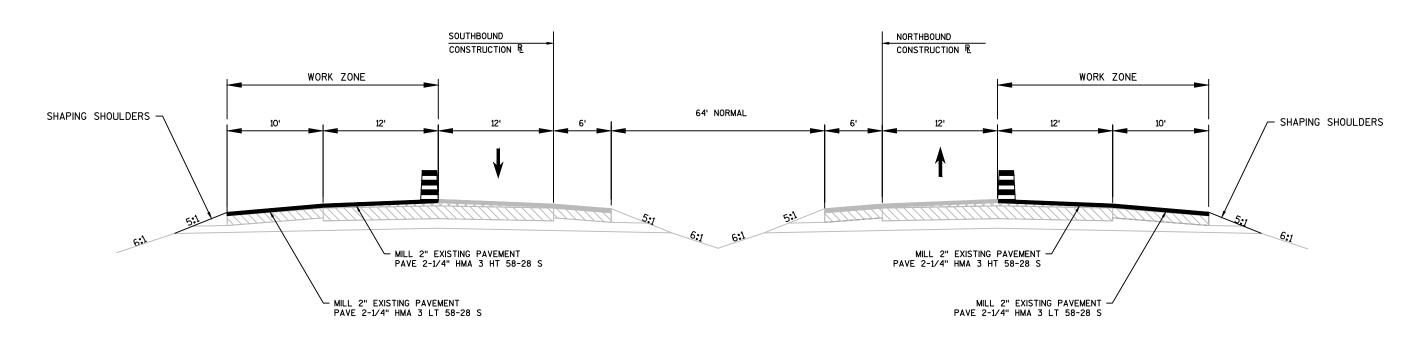
HWY: IH 43





STAGE 1A FOR IH 43 MAINLINE

STA 565+09.71'NB' - STA 930+05.38'NB' STA 565+09.71'SB' - STA 930+05.38'SB'



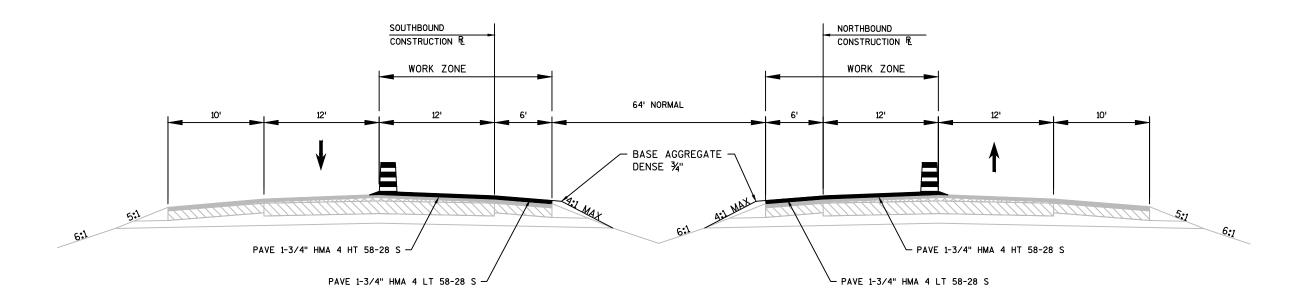
STAGE 1B FOR IH 43 MAINLINE

WISDOT/CADDS SHEET 42

STA 565+09.71'NB' - STA 930+05.38'NB' STA 565+09.71'SB' - STA 930+05.38'SB'

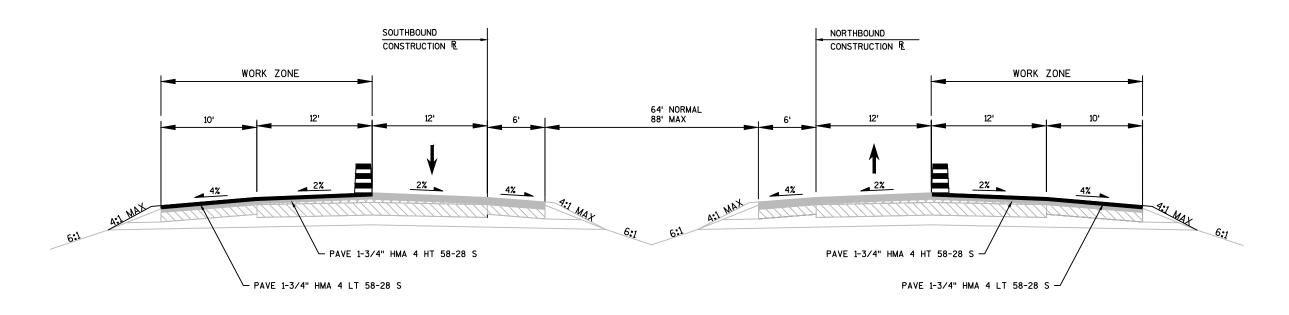
COUNTY: SHEBOYGAN Ε PROJECT NO:1225-08-71 HWY: IH 43 STAGE CONSTRUCTION - IH 43 SHEET PLOT DATE : 11/25/2016 7:49 AM PLOT BY : WITTE, KYLE J PLOT SCALE : 1 IN:10 FT





STAGE 1C FOR IH 43 MAINLINE

STA 565+09.71'NB' - STA 930+05.38'NB' STA 565+09.71'SB' - STA 930+05.38'SB'



STAGE 1D FOR IH 43 MAINLINE

STA 565+09.71'NB' - STA 930+05.38'NB' STA 565+09.71'SB' - STA 930+05.38'SB'

PROJECT NO:1225-08-71 HWY: H 43 COUNTY: SHEBOYGAN STAGE CONSTRUCTION - H 43 SHEET **E**

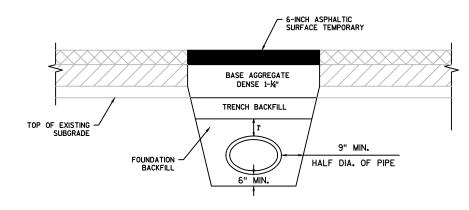
WORK ZONE 6-INCH TEMPORARY ASPHALT BASE AGGREGATE DENSE 1-1/4" 19"×30" RCCP HORIZONTAL ELLIPTICAL STAGE C2 STA 872+00 STA 925+00

GENERAL NOTES:

AFTER PIPE REPLACEMENT IS COMPLETE REMOVE ASPHALTIC SURFACE TEMPORARY AND REPLACE WITH BASE PATCHING DURING STAGES 1A/1B.

THE REMOVAL OF ASHPHALTIC SURFACE TEMPORARY AND ANY UNNEEDED BASE AGGREGATE 1-1/4" IS INCEDENTAL TO BASE PATCHING.

NO CONCRETE COLLARS, UNLESS APPROVED BY ENGINEER.



PROJECT NO:1225-08-71 HWY: H 43 COUNTY: SHEBOYGAN STAGE CONSTRUCTION - H 43 SHEET E

				1225-08-71
Item	Item Description	Unit	Total	Qty
203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
204.0115	·	SY		4,156.000
204.0120	Removing Asphaltic Surface Milling	SY	326,391.000	326,391.000
204.0165	<u> </u>	LF	500.000	500.000
204.0170	Removing Fence	LF	2,550.000	2,550.000
204.9060.S	Removing (item description) 01. Culvert Endwalls	EACH	1.000	1.000
211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 1225-08-71	LS	1.000	1.000
213.0100		EACH	1.000	1.000
305.0110	Base Aggregate Dense 3/4-Inch	TON	10,303.000	10,303.000
305.0120		TON	118.000	118.000
305.0500		STA	1,500.000	1,500.000
390.0303	Base Patching Concrete	SY	978.000	978.000
416.0610	Drilled Tie Bars	EACH	1,255.000	1,255.000
440.4410	Incentive IRI Ride	DOL	55,310.000	55,310.000
450.4000	HMA Cold Weather Paving	TON	2,292.000	2,292.000
455.0605	Tack Coat	GAL	39,962.000	39,962.000
460.2000	Incentive Density HMA Pavement	DOL	20,278.000	20,278.000
460.2005	Incentive Density PWL HMA Pavement	DOL	44,787.000	44,787.000
460.2010	Incentive Air Voids HMA Pavement	DOL	44,787.000	44,787.000
460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	152,570.000	152,570.000
460.5223	HMA Pavement 3 LT 58-28 S	TON	17,784.000	17,784.000
460.5224	HMA Pavement 4 LT 58-28 S	TON	12,936.000	12,936.000
460.7223	HMA Pavement 3 HT 58-28 S	TON	26,632.000	26,632.000
460.7224	HMA Pavement 4 HT 58-28 S			19,131.000
				60.000
				142,674.000
	·			8.000
522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000
523.0419		LF	118.000	118.000
523.0519	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	4.000	4.000
603.8000	Concrete Barrier Temporary Precast Delivered	LF	600.000	600.000
603.8125	Concrete Barrier Temporary Precast Installed	LF	2,225.000	2,225.000
614.0010	Barrier System Grading Shaping Finishing	EACH	8.000	8.000
614.0220	Steel Thrie Beam Bullnose Terminal	EACH	8.000	8.000
614.0230	Steel Thrie Beam	LF	500.000	500.000
		EACH	4.000	4.000
616.0100	Fence Woven Wire (height) 01. 4-FT	LF	2,550.000	2,550.000
	203.0100 204.0115 204.0120 204.0165 204.0170 204.9060.S 211.0100 213.0100 305.0110 305.0120 305.0500 390.0303 416.0610 440.4410 450.4000 455.0605 460.2000 460.2010 460.4110.S 460.5223 460.7223 460.7224 465.0125 465.0400 520.8700 522.1024 523.0419 523.0419 603.8000 603.8125 614.0010 614.0220 614.0230 614.0230 614.0905	203.0100 Removing Small Pipe Culverts 204.0115 Removing Asphaltic Surface Butt Joints 204.0120 Removing Asphaltic Surface Milling 204.0165 Removing Guardrail 204.0170 Removing Fence 204.9060.S Removing (item description) 01. Culvert Endwalls 211.0100 Prepare Foundation for Asphaltic Paving (project) 01. 1225-08-71 213.0100 Finishing Roadway (project) 01. 1225-08-71 305.0110 Base Aggregate Dense 3/4-Inch 305.0120 Base Aggregate Dense 3 /4-Inch 305.0500 Shaping Shoulders 390.0303 Base Patching Concrete Unicentive IRI Ride 410.0610 Drilled Tie Bars 440.4410 Incentive IRI Ride 450.4000 HMA Cold Weather Paving 455.0605 Tack Coat 460.2000 Incentive Density HMA Pavement 460.2005 Incentive Density PWL HMA Pavement 460.2010 Incentive Air Voids HMA Pavement 460.5223 HMA Pavement 3 LT 58-28 S 460.5224 HMA Pavement 4 LT 58-28 S 460.7223 HMA Pavement 4 HT 58-28 S 460.7224 HMA Pavement 4 HT 58-28 S 460.0125 Asphaltic Surface Temporary 465.0400 Asphaltic Shoulder Rumble Strips 522.0519 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch 523.0519 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch 603.8000 Concrete Barrier Temporary Precast Delivered 603.8125 Concrete Barrier Temporary Precast Delivered 603.8125 Concrete Barrier Temporary Precast Installed 614.0010 Barrier System Grading Shaping Finishing 614.0220 Steel Thrie Beam Bullnose Terminal	203.0100 Removing Small Pipe Culverts EACH 204.0115 Removing Asphaltic Surface Butt Joints SY 204.0120 Removing Asphaltic Surface Milling SY 204.0165 Removing Guardrail LF 204.0170 Removing Fence LF 204.9060.S Removing (item description) 01. Culvert Endwalls EACH 211.0100 Prepare Foundation for Asphaltic Paving (project) 01. LS 1225-08-71 EACH 305.0110 Base Aggregate Dense 3/4-Inch TON 305.0120 Base Aggregate Dense 3/4-Inch TON 305.0500 Shaping Shoulders STA 390.0303 Base Patching Concrete SY 416.0610 Drilled Tie Bars EACH 440.4410 Incentive IRI Ride DOL 450.4000 HMA Cold Weather Paving TON 455.0605 Tack Coat GAL 460.2000 Incentive Density PWL HMA Pavement DOL 460.2001 Incentive Density PWL HMA Pavement DOL 460.5223 HMA Pavement 3 LT 58-28 S TON	203.0100 Removing Small Pipe Culverts EACH 2.000 204.0115 Removing Asphaltic Surface Butt Joints SY 4,156.000 204.0120 Removing Asphaltic Surface Milling SY 326,391.000 204.0165 Removing Guardrail LF 500.000 204.9060.S Removing (item description) 01. Culvert Endwalls EACH 1.000 211.0100 Prepare Foundation for Asphaltic Paving (project) 01. LS 1.000 213.0100 Finishing Roadway (project) 01. 1225-08-71 EACH 1.000 305.0110 Base Aggregate Dense 3/4-Inch TON 10,303.000 305.0120 Base Aggregate Dense 1 1/4-Inch TON 113,000 390.0303 Base Patching Concrete SY 978,000 416.0610 Drilled Tie Bars EACH 1,255,000 440.410 Incentive IRI Ride DOL 55,310,000 450.4000 InCentive Density HMA Pavement DOL 20,278,000 460.2001 Incentive Density PWL HMA Pavement DOL 44,787,000 460.2110.1 Incentive Density PWL HMA Pavemen

					1225-08-71
Line	Item	Item Description	Unit	Total	Qty
0380	618.0100	Maintenance And Repair of Haul Roads (project) 01.	EACH	1.000	1.000
0390	619.1000	1225-08-71 Mobilization	EACH	1 000	1.000
				1.000	
0400	624.0100	Water	MGAL	105.000	105.000
0410	625.0100	Topsoil	SY	30.000	30.000
0420	625.0500	Salvaged Topsoil	SY	114.000	114.000
0430	627.0200	Mulching Mahilipotica Fassian Control	SY	30.000	30.000
0440	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0450	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0460	628.2004	Erosion Mat Class I Type B	SY	4,705.000	4,705.000
0470	628.7005	Inlet Protection Type A	EACH	11.000	11.000
0480	628.7504	Temporary Ditch Checks	LF	385.000	385.000
0490	628.7555	Culvert Pipe Checks	EACH	18.000	18.000
0500	629.0210	Fertilizer Type B	CWT	4.000	4.000
0510	630.0120	Seeding Mixture No. 20	LB	128.000	128.000
0520	630.0200	Seeding Temporary	LB	65.000	65.000
0530	633.5200	Markers Culvert End	EACH	22.000	22.000
0540	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	42.000	42.000
0550	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	24.000	24.000
0560	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	12.000	12.000
0570	635.0200	Sign Supports Structural Steel HS	LACIT	4,523.000	4,523.000
0580	635.0300	Sign Supports Replacing Base Connection Bolts	EACH	2.000	2.000
0590	636.0100	Sign Supports Concrete Masonry	CY	11.200	11.200
0600	636.0500	Sign Supports Steel Reinforcement	LB	658.000	658.000
0610	637.1220	Signs Type I Reflective SH	SF	819.000	819.000
0620	637.2210	Signs Type II Reflective H	SF	540.430	540.430
0630	637.2230	Signs Type II Reflective F	SF	24.500	24.500
0640	638.2101	Moving Signs Type I	EACH	2.000	2.000
0650	638.2601	Removing Signs Type I	EACH	7.000	7.000
0660	638.2602	Removing Signs Type II	EACH	47.000	47.000
0670	638.3000	Removing Small Sign Supports	EACH	76.000	76.000
0680	638.3100	Removing Structural Steel Sign Supports	EACH	11.000	11.000
0690	638.4100	Moving Structural Steel Sign Supports	EACH	4.000	4.000
0700	642.5401	Field Office Type D	EACH	1.000	1.000
0700	643.0100	Traffic Control (project) 01. 1225-08-71	EACH	1.000	1.000
0710	643.0300	Traffic Control Drums	DAY		
				115,100.000	115,100.000
0730	643.0310.S		LS	1.000	1.000
0740	643.0420	Traffic Control Barricades Type III	DAY	8,547.000	8,547.000
0750	643.0705	Traffic Control Warning Lights Type A	DAY	17,094.000	17,094.000
0760	643.0715	Traffic Control Warning Lights Type C	DAY	3,989.000	3,989.000

					1225-08-71	
Line	Item	Item Description	Unit	Total	Qty	
0770	643.0800	Traffic Control Arrow Boards	DAY	570.000	570.000	
0780	643.0900	Traffic Control Signs	DAY	15,070.000	15,070.000	
0790	643.1050	Traffic Control Signs PCMS	DAY	24.000	24.000	
0800	646.0106	Pavement Marking Epoxy 4-Inch	LF	147,916.000	147,916.000	
0810	646.0600	Removing Pavement Markings	LF	2,094.000	2,094.000	
0820	646.0790.S	Removing Raised Pavement Markers	EACH	733.000	733.000	
0830	646.0841.S	Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch	LF	18,232.000	18,232.000	
0840	646.0843.S	Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	LF	2,873.000	2,873.000	
0850	647.0803	Pavement Marking Aerial Enforcement Bars Epoxy 24-Inch	LF	60.000	60.000	
0860	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	6,232.000	6,232.000	
0870	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	169,138.000	169,138.000	
0880	649.0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	2,000.000	2,000.000	
0890	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000	
0900	650.8000	Construction Staking Resurfacing Reference	LF	75,204.000	75,204.000	
0910	650.9910	Construction Staking Supplemental Control (project) 01. 1225-08-71	LS	1.000	1.000	
0920	690.0250	Sawing Concrete	LF	40,762.000	40,762.000	
0930	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,400.000	2,400.000	
0940	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	3,040.000	3,040.000	
0950	SPV.0060	Special 01. HMA Percent Within Limit (PWL) Test Strip	EACH	2.000	2.000	
0960	SPV.0090	Special 01. Remove Rumble Strips	LF	6,250.000	6,250.000	
0970	SPV.0090	Special 02. Concrete Barrier Temporary Precast Anchoring	LF	200.000	200.000	
0980	SPV.0180	Special 01. Base Patching Continuously Reinforced Concrete	SY	6,210.000	6,210.000	
0990	SPV.0180	Special 02. Grade and Shape Ditch	SY	4,561.000	4,561.000	

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SHEET:

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B	SIZE S	203.0100 204.9 REMOVING REM SMALL PIPE CUL CULVERTS END EACH EA 1 1	MOVING LVERT	STATION 564+71.00 NB	- 567+38.00 NB I - 566+69.00 NB I	204.0165 REMOVING GUARDRAIL LOCATION LF H 43 NB LT 267	<u>F</u>		211.0100 REPARE FOUNDATIO ASPHALT PAVING LS 1	213.0100 FINISHING ROADWAY PROJECT EACH 1
-				REMOVING	G PAVEMENT AND ASF	PHALTIC SURFACE	l			
		STATION	TO STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING PAV	649.0790.S REMOVING RAISED VEMENT MARKER EACH	RS REMARKS		
		564+53.64 NB 566+53.64 NB 624+95.30 NB 928+05.37 NB	NORTHBOUND - 566+53.64 NB - 622+90.30 NB - 928+06.37 NB - 930+05.37 NB	IH 43 NB IH 43 NB IH 43 NB IH 43 NB	889 889	 25,052 134,716 	2 56 303 2	SOUTH PROJECT L MAINLINE MAINLINE NORTH PROJECT LI		
			N SOUTHBOUND	ORTHBOUND TOTALS	1,778	159,768	363			
		655+98.34 SB AH 708+51.98 SB 726+50.84 SB AH 785+09.75 SB AH	- 567+45.08 SB - 590+29.14 SB BK H - 656+15.04 SB BK H - 706+71.98 SB - 726+55.94 SB BK H - 785+06.46 SB BK H - 873+97.95 SB BK H - 928+05.36 SB - 930+05.36 SB	IH 43 SB IH 43 SB IH 43 SB IH 43 SB	889 889	10,151 29,185 22,550 8,218 26,025 39,503 24,034	2 23 66 51 18 59 89 54	SOUTH PROJECT L MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE NORTH PROJECT L		
			S RAMPS	OUTHBOUND TOTALS	1,778	159,666	363			
		568+56.03 NE 569+06.03 NE 574+00.00 NW 574+50.00 NW 50+00.00 SE 53+50.00 SE 28+00.00 SW	- 569+06.03 NE - 583+25.00 NE - 574+50.00 NW - 583+78.00 NW - 53+50.00 SE - 54+00.00 SE - 31+50.00 SW	STH 42 NE RAMP STH 42 NE RAMP STH 42 NW RAMP STH 42 NW RAMP ROWE RD SE RAMP ROWE RD SE RAMP ROWE RD SW RAMP	150 150 150 	 3,006 2,072 920 960	 2 5 	RAMP PROJECT LI RAMP MAINLINE RAMP PROJECT LI RAMP MAINLINE RAMP MAINLINE RAMP PROJECT LI RAMP MAINLINE	E MITS E E MITS	
		31+50.00 SW	- 32+00.00 SW	ROWE RD SW RAMP	150 600	6957	7	RAMP PROJECT LI	MITS ———	

4,156

326,391

733

MISCELLANEOUS QUANTITIES

COUNTY: SHEBOYGAN

HWY: IH 43

PROJECT NO: 1225-08-71

BASE AGGREGATE SUMMARY

				305.0110 BASE	305.0120 BASE	305.0500	624.0100
				AGGREGATE	AGGREGATE		
				DENSE	DENSE	SHAPING	
				3/4-INCH	1 1/4-INCH	SHOULDERS	WATER
STATION	TO	STATION	LOCATION	TON	TON	STA	MGAL
		NORTHBOUND					
564+53.64 NB	-	930+05.38 NB	IH 43 NB	5055	-	734	51
871+90.00 NB	-	872+10.00 NB	IH 43 NB	-	59	-	-
924+90.00 NB	-	925+10.00 NB	IH 43 NB	-	59	-	-
		N	NORTHBOUND TOTALS	5,055	118	734	51
		SOUTHBOUND					
565+45.08 SB AH	-	590+29.14 SB BK	IH 43 SB	344	-	50	3
590+48.32 SB AH	-	656+15.04 SB BK	IH 43 SB	908	-	132	9
655+98.34 SB AH	-	726+54.94 SB BK	IH 43 SB	976	-	142	10
726+50.84 SB AH	-	785+06.46 SB BK	IH 43 SB	810	-	118	8
785+09.75 SB AH	-	873+97.95 SB BK	IH 43 SB	1229	-	176	12
873+97.71 SB AH	-	930+05.38 SB	IH 43 SB	776	-	114	8
		S	SOUTHBOUND TOTALS	5,042	0	732	50
		RAMPS					
568+56.03 NE	-	574+93.39 NE	STH 42 NE RAMP	88	-	14	1
573+99.67 NW	-	578+01.64 NW	STH 42 NW RAMP	56	-	10	1
50+00.00 SE	-	54+00.03 SE	ROWE RD SE RAMP	55	-	8	1
31+52.95 SW	-	32+00.00 SW	ROWE RD SW RAMP	7	-	2	1
			RAMP TOTALS	206	0	34	4
			PROJECT TOTALS	10,303	118	1,500	105

BASE PATCHING SUMMARY

				390.0303	416.0610	690.0150	SPV.0180.01	
							BASE PATCHING CONTINUOUSLY	
				BASE PATCHING	DRILLED	SAWING	REINFORCED	
				CONCRETE		CONCRETE	CONCRETE	
CTATION	то	STATION	LOCATION	SY	EACH	LF	SY	DEMARKS
STATION	10	NORTHBOUND	LOCATION	31	EACH	LF	31	REMARKS
E64.E2.64 ND		571+84.20 NB	IH 43 NB	36	33	1256	192	BEGIN - MI. 129
564+53.64 NB	-		-				_	
571+84.20 NB	-	624+50.30 NB	IH 43 NB	115	83	3142	477	MI. 129 - MI. 130
624+50.30 NB	-	677+37.94 NB	IH 43 NB	28	77	2984	494	MI. 130 - MI. 131
677+37.94 NB		730+18.51 NB	IH 43 NB	62	86	3480	568	Ml. 131 - Ml. 132
730+18.51 NB	-	782+98.74 NB	IH 43 NB	83	109	4226	640	MI. 132 - MI. 133
782+98.74 NB	-	835+78.23 NB	IH 43 NB	45	70	2724	425	MI. 133 - MI. 134
835+78.23 NB	-	888+58.35 NB	IH 43 NB	47	60	1916	261	Ml. 134 - Ml. 135
888+58.35 NB	-	927+87.70 NB	IH 43 NB	12	54	1670	277	MI. 135 - END
		NOF	RTHBOUND TOTALS	428	572	21,398	3,334	
		SOUTHBOUND						
565+45.08 SB	-	571+84.20 SB	IH 43 SB	4	6	478	91	BEGIN - MI. 129
571+84.20 SB	-	624+50.30 SB	IH 43 SB	41	47	1678	249	Ml. 129 - Ml. 130
624+50.30 SB	-	677+37.94 SB	IH 43 SB	115	100	2254	310	Ml. 130 - Ml. 131
677+37.94 SB	-	730+18.51 SB	IH 43 SB	72	44	2340	346	Ml. 131 - Ml. 132
730+18.51 SB	-	782+95.51 SB	IH 43 SB	57	100	3356	510	Ml. 132 - Ml. 133
782+95.51 SB	-	835+78.23 SB	IH 43 SB	57	66	2072	292	Ml. 133 - Ml. 134
835+78.23 SB	-	888+58.36 SB	IH 43 SB	71	51	1802	272	Ml. 134 - Ml. 135
888+58.36 SB	-	929+03.68 SB	IH 43 SB	44	60	1678	241	MI. 135 - END
		SOL	JTHBOUND TOTALS	461	474	15,658	2,311	
		UNDISTRIBUTED		89	209	3,706	565	
			PROJECT TOTALS	978	1,255	40,762	6,210	

PROJECT NO: 1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET: E

3

HMA SUMMARY

				450.4000	455.0605	460.5223	460.5224	460.7223	460.7224	460.4110.S				
										REHEATING HMA		INCENTIVE	INCENTIVE	
				HMA COLD		HMA	HMA	HMA	HMA	PAVEMENT	INCENTIVE	DENSITY	AIR VOID	
				WEATHER	TACK	PAVEMENT 3	PAVEMENT 4	PAVEMENT 3	PAVEMENT 4	LONGITUDINAL	DENSITY HMA	PWL HMA	HMA	
				PAVING	COAT	LT 58-28 S		HT 58-28 S	HT 58-28 S	JOINTS	PAVEMENT*	PAVEMENT*	PAVEMENT*	
STATION	TO	STATION	LOCATION	TON	GAL	TON	TON	TON	TON	LF	TON	TON	TON	REMARKS
		NORTHBOUND												
564+53.64 NB		930+05.37 NB	IH 43 NB	1121	19494	8692	6255	13037	9382	73104	14947	22419	22419	MAINLINE
623+67.80 NB		624+17.80 NB	IH 43 NB		16	5		7		50				PAVEMENT WEDGE
592+02.00 NB	-	592+65.00 NB	IH 43 NB		24		22				22			MAINTENANCE CROSSOVER
690+44.00 NB	-	691+06.00 NB	IH 43 NB		24		22				22			MAINTENANCE CROSSOVER
807+69.00 NB	-	808+29.00 NB	IH 43 NB		24		22				22			MAINTENANCE CROSSOVER
845+54.00 NB	-	846+07.00 NB	IH 43 NB		23		21				21			MAINTENANCE CROSSOVER
917+95.00 NB	-	918+54.00 NB	IH 43 NB		23		22				22			MAINTENANCE CROSSOVER
			NORTHBOUND TOTALS	1121	19626	8697	6364	13044	9382	73154	15056	22419	22419	
		SOUTHBOUND												
565+45.08 SB	_	590+29.14 SB BK	IH 43 SB	77	1325	591	426	886	638	4969	1017	1524	1524	MAINLINE
590+48.32 SB AH	_	656+15.04 SB BK	IH 43 SB	202	3502	1562	1124	2343	1686	13134	2686	4029	4029	MAINLINE
655+98.34 SB AH	_	726+54.94 SB BK	IH 43 SB	217	3764	1678	1208	2517	1812	14114	2886	4329	4329	MAINLINE
726+50.84 SB AH	_	785+06.46 SB BK	IH 43 SB	180	3123	1393	1002	2089	1503	11712	2395	3592	3592	MAINLINE
785+09.75 SB AH	_	873+97.95 SB BK	IH 43 SB	273	4740	2114	1521	3171	2282	17777	3635	5453	5453	MAINLINE
873+97.71 SB AH	_	930+05.36 SB	IH 43 SB	173	2991	1334	960	2001	1440	11216	2294	3441	3441	MAINLINE
		000.00.00 02	11 10 GB	170	2001	1001	000	2001		11210	220 .	0111	0111	
			SOUTHBOUND TOTALS	1122	19445	8672	6241	13007	9361	72922	14913	22368	22368	
R	AMP	P/OVERPASS ROAD	WAYS											
568+56.03 NE	-	583+25.00 NE	STH 42 NE RAMP	22	379	161	128	262	177	2938	728			
574+00.00 NW	-	583+78.00 NW	STH 42 NW RAMP	15	267	123	98	175	117	1956	513			
50+00.00 SE	-	54+00.00 SE	ROWE RD SE RAMP	6	126	69	55	72	47	800	243			
28+00.00 SW	-	32+00.00 SW	ROWE RD SE RAMP	6	120	62	50	72	47	800	231			
			NORTHBOUND TOTALS	49	891	415	331	581	388	6,494	1,715	0	0	
			PROJECT TOTALS	2,292	39,962	17,784	12,936	26,632	19,131	152,570	31,684	44,787	44,787	

NOTE: RAMPS AND SHOULDERS ARE NOT ELIGIBLE FOR PWL DENSITY INCENTIVE

PROJECT NO: 1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET: **E**

^{* -} FOR INFORMATION ONLY, SHOWS TONNAGES APPLICABLE TO INCENTIVES

2

ASPHALTIC SHOULDER RUMBLE STRIPS

465.0400 ASPHALTIC SHOULDER

RUMBLE STRIPS

STATION	TO STATION	LOCATION	LF						
	NORTHBOUND	NORTHBOUND							
565+09.73 NB LT	- 930+05.38 NB LT	IH 43 NB	36496						
565+09.73 NB RT	- 574+94.00 NB RT	IH 43 NB	984						
583+24.00 NB RT	- 699+76.00 NB RT	IH 43 NB	11652						
704+36.00 NB RT	- 930+05.38 NB RT	IH 43 NB	22569						
			71,701						
	SOUTHBOUND								

565+96.77 SB RT - 590+29.14 SB RT BK IH 43 SB 2432 565+96.77 SB LT - 578+00.00 SB LT IH 43 SB 1203 584+76.00 SB LT - 590+29.14 SB LT IH 43 SB 553 13133 655+98.34 SB RT AH - 726+54.94 SB RT BK IH 43 SB 7057 655+98.34 SB LT AH - 694+55.00 SB LT IH 43 SB 3857 706+21.00 SB LT IH 43 SB 2034 726+54.94 SB LT BK 726+50.84 SB RT & LT AH - 785+06.46 SB RT & LT BK IH 43 SB 11711 17776

873+97.71 SB RT & LT AH - 930+05.38 SB RT & LT

70,972

11215

IH 43 SB

142,674

ASPHALTIC SURFACE TEMPORARY

465.0125 ASPHALTIC SURFACE

 TEMPORARY

 STATION
 TO
 STATION
 TON
 REMARKS

 871+90
 872+10 NB
 IH 43 NB
 30
 PIPE REPLACEMENT

 924+90
 925+10 NB
 IH 43 NB
 30
 PIPE REPLACEMENT

60

CULVERT PIPE SUMMARY

			PR	OJECT	TOTALS	8	1	118	4	22	
		SOUTHBO	UND TOTALS			3	0	0	0	6	
926+40.00 SB	- !	927+50.00 SB	IH 43 SB LT			1				2	
767+62.00 SB						1				2	
	- '	JTHBOUND 715+48.00 SB				1				2	
			UND TOTALS			5	1	118	4	16	
920+40.00 ND		927+30.00 NB	II 1 43 ND K I			ı					
925+ 926+40.00 NB	-00.00		IH 43 NB	683.4	683.1	 1		6U 		2	REPLACEMEN
_	00.00		IH 43 NB	658.7 683.4	658.3			58 60	2 2	2 2	REPLACEMENT REPLACEMENT
	48.00		IH 43 NB			1				2	DEDI 40515
	-00.00		IH 43 NB			1				2	
	-00.00		IH 43 NB			1				2	
		715+55.00 NB				1				2	
	-00.00	NB	IH 43 NB RT				1			2	
	NOF	RTHBOUND									
STATION	TO	STATION	LOCATION		ELEV.	EACH	EACH	LF	EACH	EACH	REMARKS
				INI FT	DISCH.		24-INCH	19X30-INCH	19X30-INCH	END	
							CONCRETE	CLASS HE-IV	ELLIPTICAL	CULVERT	
						CLEANING	PIPE REINFORCED	HORIZONTAL ELLIPTICAL	CONCRETE HORIZONTAL	MADKEDS	
							CULVERT	CONCRETE	REINFORCED		
							FOR	REINFORCED	PIPE		
							ENDWALLS	CULVERT PIPE	CULVERT		
							APRON		FOR		
									APRON ENDWALLS		
									ADDON		

PROJECT NO: HWY: IH 43 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET: **E**

TEMPORARY CONCRETE BARRIER SUMMARY

				600	2225	4	200							
				0	1025	0	0							
699+42.00 SE	RAM - 704	_	ROWE RD		1025									MOVE & REINSTALL EXISTING WALL
				600	1200	4	200							
923+31.50 NB	- 925	5+18.50 NB	IH 43 NB		300	1	50	2	OM-3L	TL-3	UNIDIRECTIONAL	RIGHT	REPLACEMENT	CULVERT PIPE REMOVAL
923+31.50 NB	- 925	5+18.50 NB	IH 43 NB	300	300	1	50	2	OM-3R	TL-3	UNIDIRECTIONAL	LEFT	STAGED	CULVERT PIPE REMOVAL
870+31.50 NB	- 872	2+18.50 NB	IH 43 NB		300	1	50	2	OM-3L	TL-3	UNIDIRECTIONAL	RIGHT	CULVERT PIPE	CULVERT PIPE REMOVAL
870+31.50 NB		2+18.50 NB	IH 43 NB	300	300	1	50	2	OM-3R	TL-3	UNIDIRECTIONAL	LEFT	DROP OFF FROM	CULVERT PIPE REMOVAL
	NORTHE		LOCATION	LF	LF	EACIT	LF	ГІ						KEWAKKS
STATION	TO S	STATION	LOCATION	DELIVERED LF	INSTALLED LF	TEMPORARY EACH	ANCHORING LF	WIDTH FT	PATTERN	LEVEL	DIRECTION	LOCATION	SHEILDS	REMARKS
				PRECAST	PRECAST	CUSHIONS	PRECAST	BACK	MARKING	TEST	TRAFFIC	TRAFFIC	CRASH CUSHION	
				TEMPORARY	TEMPORARY	CRASH	TEMPORARY	- · · · · ·	OBJECT	CRASH			05.401.01.01.01	
				BARRIER	BARRIER		BARRIER							
				CONCRETE	CONCRETE		CONCRETE							
				603.8000	603.8125	614.0905	SPV.0090.02							

BEAM GUARD SUMMARY

614.0220 614.0230 THRIE BEAM BULLNOSE STEEL TERMINAL THRIE BEAM STATION TO STATION LOCATION EACH LF REMARKS NORTHBOUND 607+62.10 NB - 609+31.28 NB IH 43 NB 125 B-59-0078 661+68.15 NB - 663+37.30 NB IH 43 NB 2 125 B-59-0068 714+31.25 NB - 716+00.41 NB IH 43 NB 2 125 B-59-0069 2 767+33.97 NB - 769+93.35 NB IH 43 NB 125 B-59-0070 PROJECT TOTAL 500 8

FENCE

				204.0170	616.0100 FENCE
				REMOVING	WOVEN
				FENCE	WIRE (4-FT)
STATION	TO	STATION	LOCATION	LF	LF
703+40 NB	-	704+84 NB	IH 43 NB RT	144	144
795+16 NB	-	796+39 NB	IH 43 NB RT	123	123
826+90 NB	-	829+93 NB	IH 43 NB RT	303	303
829+89 SB	-	832+02 SB	IH 43 SB LT	213	213
832+97 SB	-	834+75 SB	IH 43 SB LT	178	178
855+81 SB	-	867+25 SB	IH 43 SB LT	1144	1144
862+41 NB	-	865+24 NB	IH 43 NB RT	283	283
868+14 SB	-	868+62 SB	IH 43 SB LT	48	48
	UN	DISTRIBUTE	כ	114	114
		PRO	JECT TOTALS	2,550	2,550

PROJECT NO: 1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET: E

BARRIER GRADING, SHAPING, AND FINISHING SUMMARY

				614.0010 BARRIER SYSTEM	*205.0100	*208.0100	*625.0500	*628.2004 EROSION	*629.021	*630.012 SEEDING	*630.02
				GRADING, SHAPING	EXCAVATION		SALVAGED	MAT CLASS I	FERTILIZER	MIXTURE	SEEDING
				& FINISHING	COMMON	BORROW	TOPSOIL	TYPE B	TYPE B	NO. 20	TEMPORARY
STATION	TO	STATION	LOCATION	EACH	CY	CY	SY	SY	CWT	LB	LB
	NO	RTHBOUND									
607+62.10 NB	-	609+31.28 NB	IH 43 NB	2	68	-	24	24	0.015	0.65	0.32
661+68.15 NB	-	663+37.30 NB	IH 43 NB	2	-	158	29	29	0.018	0.78	0.39
714+31.25 NB	-	716+00.41 NB	IH 43 NB	2	-	45	30	30	0.019	0.81	0.41
767+33.97 NB	-	769+93.35 NB	IH 43 NB	2	63	-	35	35	0.022	0.95	0.47

*FOR INFORMATION ONLY

PROJECT TOTAL

CATEGORY

0010

8

LOCATION

PROJECT IH 43

EROSION CONTROL MOBILIZATIONS

MOBILIZATIONS
MOBILIZATIONS
EMERGENCY
EROSION CONTROL
EACH
EACH
EACH

628.1910

2

PROJECT TOTAL 3

3

628.1905

EROSION CONTROL SUMMARY

628.7005 628.7504 628.7555

STATION	LOCATION	INLET PROTECTION TYPE A EACH	TEMPORARY DITCH CHECKS LF	CULVERT PIPE CHECKS EACH
NORT	THBOUND			
581+80.00 NB	IH 43 NB LT	1		
591+90.00 NB	IH 43 NB RT		15	
606+00.00 NB	IH 43 NB LT	1		
607+00.00 NB	IH 43 NB LT		20	
610+20.00 NB	IH 43 NB LT		20	
620+80.00 NB	IH 43 NB RT		15	
631+10.00 NB	IH 43 NB LT	1		
651+00.00 NB	IH 43 NB LT	1		
652+60.00 NB	IH 43 NB RT		20	
658+80.00 NB	IH 43 NB RT		20	
660+00.00 NB	IH 43 NB LT	1		
662+80.00 NB	IH 43 NB RT		15	
664+00.00 NB	IH 43 NB LT	1		
662+80.00 NB	IH 43 NB RT		20	
681+40.00 NB	IH 43 NB RT		15	
689+80.00 NB	IH 43 NB RT		15	
713+50.00 NB	IH 43 NB LT		20	
717+00.00 NB	IH 43 NB LT	1		
766+48.00 NB	IH 43 NB LT	1		
767+60.00 NB	IH 43 NB RT		20	
769+80.00 NB	IH 43 NB LT		20	
781+70.00 NB	IH 43 NB RT		20	
819+00.00 NB	IH 43 NB LT		20	
826+20.00 NB	IH 43 NB RT		15	
829+30.00 NB	IH 43 NB RT		20	
871+75.00 NB	IH 43 NB LT		20	
872+00.00 NB	IH 43 NB LT			4
877+00.00 NB	IH 43 NB LT	1		
897+00.00 NB	IH 43 NB LT	1		
925+00.00 NB	IH 43 NB LT			4
925+20.00 NB	IH 43 NB LT		20	
NC	RTHBOUND TOTALS	10	350	8
SOUT	THBOUND			
664+00.00 SB	IH 43 SB LT			8
sc	OUTHBOUND TOTALS	0	0	8
	UNDISTRIBUTED	1	35	2
	PROJECT TOTALS	11	385	18

PROJECT NO: 1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET: E

3

3

EROSTION CONTROL SUMMARY

				625.0100	625.0500	627.0200	628.2004 EROSION	629.0210	630.0120 SEEDING	630.0200	SPV.0180.02	
					SALVAGED)	MAT CLASS I	FERTILIZER		SEEDING	GRADE AND	
				TOPSOIL		MULCHING		TYPE B	NO. 20		SHAPE DITCH	ł
STATION	ТО	STATION	LOCATION	SY	SY	SY	SY	CWT	LB	LB	SY	REMARKS
		NORTHBOUND										
		581+80.00 NB	IH 43 NB LT	4		4.0	4	0.003	0.11	0.05		PERIMETER RESTORATION
592+00.00 NB	_	594+00.00 NB	IH 43 NB RT				223	0.140	6.02	3.01	223	GRADE & SHAPE
621+00.00 NB		623+00.00 NB	IH 43 NB RT				223	0.140	6.02	3.01	223	GRADE & SHAPE
		631+10.00 NB	IH 43 NB LT	5		5.0	5	0.003	0.14	0.07		PERIMETER RESTORATION
649+50.00 NB	-	652+50.00 NB	IH 43 NB RT				500	0.315	13.50	6.75	500	GRADE & SHAPE
		651+00.00 NB	IH 43 NB LT	4		4.0	4	0.003	0.11	0.05		PERIMETER RESTORATION
659+00.00 NB	-	661+00.00 NB	IH 43 NB RT				334	0.210	9.02	4.51	334	GRADE & SHAPE
		664+00.00 NB	IH 43 NB LT	5		5.0	5	0.003	0.14	0.07		PERIMETER RESTORATION
663+00.00 NB	-	665+00.00 NB	IH 43 NB RT				223	0.140	6.02	3.01	223	GRADE & SHAPE
672+00.00 NB	-	674+50.00 NB	IH 43 NB RT				417	0.263	11.26	5.63	417	GRADE & SHAPE
681+50.00 NB	-	683+50.00 NB	IH 43 NB RT				223	0.140	6.02	3.01	223	GRADE & SHAPE
690+00.00 NB	-	692+00.00 NB	IH 43 NB RT				223	0.140	6.02	3.01	223	GRADE & SHAPE
		691+00.00 NB	IH 43 NB RT		10	0.0	10	0.006	0.27	0.14		ENDWALL REPLACEMENT
764+50.00 NB	-	767+50.00 NB	IH 43 NB RT				500	0.315	13.50	6.75	500	GRADE & SHAPE
778+50.00 NB	-	781+50.00 NB	IH 43 NB RT				500	0.315	13.50	6.75	500	GRADE & SHAPE
824+00.00 NB	-	826+00.00 NB	IH 43 NB RT				223	0.140	6.02	3.01	223	GRADE & SHAPE
829+50.00 NB	-	831+50.00 NB	IH 43 NB RT				334	0.210	9.02	4.51	334	GRADE & SHAPE
871+94.00 NB	-	872+06.00 NB	IH 43 NB LT & RT		40		40	0.025	1.08	0.54		PIPE REPLACEMENT
		877+00.00 NB	IH 43 NB LT	5		5.0	5	0.003	0.14	0.07		PERIMETER RESTORATION
		897+00.00 NB	IH 43 NB LT	4		4.0	4	0.003	0.11	0.05		PERIMETER RESTORATION
924+94.00 NB	-	925+06.00 NB	IH 43 NB LT & RT		54		54	0.034	1.46	0.73		PIPE REPLACEMENT
		NO	RTHBOUND TOTALS	27	104	27	4,054	2.554	109	55	3,923	
		SOUTHBOUND										
663+00.00 SB	-	665+00.00 SB	IH 43 SB LT				223	0.140	6.0	3.01	223	GRADE & SHAPE
		so	UTHBOUND TOTALS	0	0	0	223	1.000	7	4	223	
			UNDISTRIBUTED	3	10	3	428	0.355	12	6	415	
			PROJECT TOTALS	30	114	30	4,705	4	128	65	4,561	

PROJECT NO: 1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET: E

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

					627 2210	637 3330	624 0614	624 0616	624 0610	620, 2602	630, 3000	
					637.2210	637.2230						
					SIGNS	SIGNS	POSTS	POSTS		REMOVING		
					TYPE II	TYPE II	WOOD	WOOD	WOOD	SIGNS	SMALL	
						REFLECTIVE	4x6x14	4x6x16	4x6x18	TYPE II	SIGN	
SIGN		SIGN			TYPE H	TYPE F					SUPPORTS	
NO.	LOCATION	CODE		ХН	S.F.	S.F.	EACH	EACH	EACH	EACH	EACH	REMARKS
1	IH-43, N. OF STH 42	W4-1		x 48"		16.00		2		1	2	
2	"	D10-3		x 48"	4.00		1					MILE 129
3	11			x 48"	4.00		1					MILE 129
4	11	w2-6	30"	x 30"		6.25				1	1	
5	II .	W2-6P										PART OF SIGN 4 REMOVAL
6	II .	W13-1		X 18"		2.25						15 MPH, MOUNT BELOW SIGN 4, PART OF SIGN 4 REMOVAL
7	П	E5-1A		x 60"	37.50				2	1	2	EXIT 128
8	п	R3-4B		x 48"				1		1	1	
8A	п	R3-4B	36"	x 48"	12.00			1		1	1	
9	п	J4-1								1	1	
10	п	J4-2	10"	x 10"	0.69				2			NORTH 43, LAKE MICHIGAN CIRLCE TOUR (M1-93)
11	п	м1-93								1	1	
12	н	R2-1	48"	x 60"	20.00				2	1	2	70 MPH
13	11	W11-3								1	2	
14	11	м1-94	84"	X 21"	12.25		2			1	2	SEE DETAIL SHEETS
15	IH-43, N. OF PLAYBIRD RD	м1-94	84"	X 21"	12.25		2			1	2	SEE DETAIL SHEETS
16	11	D12-5	60"	x 66"	27.50				2	1	2	
17	11	R4-3	48"	x 60"	20.00			2		1	2	
18	H	D10-3	12"	x 48"	4.00		1					MILE 130
19	н	D10-3	12"	x 48"	4.00		1					MILE 130
20	н	R5-53A	42"	x 54"	15.75			1		1	1	
21	П	R8-7		x 36"	12.00			1		1	1	
22	П	м1-94	_	x 21"	11.38		2			1	2	SEE DETAIL SHEETS
23	IH-43, N. OF GARTON RD	м1-94	78"	x 21"	_		2			1	2	SEE DETAIL SHEETS
24	п	D10-3		x 48"	4.00		1					MILE 131
25	П		12"	x 48"	4.00		1					MILE 131
26	п	R3-4B		x 48"	12.00			1		1	1	-
27	п			x 48"				1		1	1	
28	п			x 60"					2	1	2	70 MPH
29	II.	J4-1								1	1	
30	II .	J4-2	10"	x 10"	ļ				2			SOUTH 43, LAKE MICHIGAN CIRLCE TOUR (M1-93)
31	п	W4-1								1	2	2,50 (1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
32	п	w11-3								1	2	
33	п	I55-56								1	1	
34	п			x 21"			2			1	2	SEE DETAIL SHEETS
35	IH-43, N. OF ROWE RD	M1-94		X 21"	_		2			1	2	SEE DETAIL SHEETS
36	II 13, III OI ROWE RD			X 36"	7.50			1		1	1	ENTOURAGE SALON AND DAY SPA, SEE PLAN SHEET
37	II .			x 48"			1					MILE 132
38	п			X 48"	_		1					MILE 132
39	п	R8-7	_	x 46	_			1		1	1	MILLE 132
40	п			X 21"			2			1	2	SEE DETAIL SHEETS
41	IH-43, N. OF CTH FF			X 21"			2			1	2	
41		IVII - 94	00	Λ 21		24 50			12			SEE DETAIL SHEETS
	PAGE SUBTOTALS				337.65	24.50	24	12	12	30	47	

PROJECT NO: 1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET: E

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

				637.2210	637.2230	634.0614	634.0616	634.0618	638.2602	638.3000	
				SIGNS	SIGNS	POSTS	POSTS	POSTS	REMOVING	REMOVING	
				TYPE II	TYPE II	WOOD	WOOD	WOOD	SIGNS	SMALL	
				REFLECTIVE	REFLECTIVE	4x6x14	4x6x16	4x6x18	TYPE II	SIGN	
SIGN		SIGN		TYPE H	TYPE F					SUPPORTS	
NO.	LOCATION	CODE	$W \times H$	S.F.	S.F.	EACH	EACH	EACH	EACH	EACH	REMARKS
42	IH-43, N. OF CTH FF	R8-7							1	1	
43	н	D10-3	12" X 48"	4.00		1					MILE 133
44	н	D10-3	12" X 48"	4.00		1					MILE 133
45	н	W11-3							1	2	
46	н	R3-4B	36" x 48"	12.00			1		1	1	
47	н	R3-4B	36" x 48"	12.00			1		1	1	
48	п	м1-94	66" X 21"	9.63		2			1	2	SEE DETAIL SHEETS
49	IH-43, N. OF CTH MM	м1-94	66" X 21"	9.63		2			1	2	SEE DETAIL SHEETS
50	п	D10-3	12" X 48"	4.00		1					MILE 134
51	п	D10-3	12" X 48"	4.00		1					MILE 134
52	п	R3-4B	36" x 48"	12.00			1		1	1	
53	п	R3-4B	36" x 48"	12.00			1		1	1	
54	н	W11-3							1	2	
55	II	м1-94	84" X 21"	12.25		2			1	2	SEE DETAIL SHEETS
56	IH-43, N. OF ORCHARD RD	м1-94	84" X 21"	12.25		2			1	2	SEE DETAIL SHEETS
57	II	D10-3	12" X 48"	4.00		1					MILE 135
58	п	D10-3	12" X 48"	4.00		1					MILE 135
59	п	R3-4B	36" x 48"	12.00			1		1	1	
60	п	R3-4B	36" x 48"	12.00			1		1	1	
61	н	12-2	102" X 21"	14.88			3		1	3	MANITOWOC CO
62	п	м1-94	114" X 21"	16.63		2			1	2	SEE DETAIL SHEETS
63	IH-43, N. OF ORCHARD RD	м1-94	114" X 21"	16.63		2			1	2	SEE DETAIL SHEETS
64	п	12-2	102" X 21"	14.88			3		1	3	SHEBOYGAN CO
	PAGE SUBTOTALS			202.78	0.00	18	12	0	17	29	
	PROJECT TOTALS			540.43	24.50	42	24	12	47	76	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE I

					637.1220	638.2101	638.4100	638.2601	638.3100		636.0100	636.0500	635.0200	635.0300	INFO ONLY	/ - POST LEN	NGTH TO	
					SIGNS	MOVING	MOVING	REMOVING	REMOVING	TYPE/SIZE	SIGN	SIGN	SIGN SUPPORTS	SIGN SUPPORTS	BE VERIF	IED BY CON	TRACTOR	
					TYPE I	SIGNS	STRUCTURAL	SIGNS	STRUCTURAL	OF	SUPPORTS	SUPPORTS	STRUCT. STEEL	REPLACING	POST NO. 1	POST NO. 2	DISTANCE	
					REFLECTIVE	TYPE I	STEEL	TYPE I	STEEL	STEEL	CONCRETE	STEEL	HIGH-STRENGTH	BASE	LENGTH	LENGTH	BETWEEN	
SIGN		SIGN			TYPE SH		SUPPORTS		SUPPORTS		MASONRY	REINFORCEMENT		CONNECTION BOLTS	(ROAD SIDE)	(DITCH)	POSTS (S)	
NO.	LOCATION	CODE		WXH	S.F.	EACH	EACH	EACH	EACH		CY	LB	LB	EACH	FT	FT	FT	REMARKS
100	IH-43 N. OF STH 42	E4-1A	300"	' X 132"	275.0			1	3	2-TYPE C	1.8	100	1172		20.0	22.5	15.0	SEE SIGN DETAIL SHEET
100A	II .	E1-5	108"	' X 30"	22.5			1										MOUNT TOP RIGHT OF SIGN 100, EXIT 128
101	IH-43 N. OF PLAYBIRD RD	E10-61	144"	' X 54"	54.0			1	2	2-TYPE A	1.2	68	505		13.8	15.6	9.0	
102	п	E8-1	180"	' X 84"	105.0			1	2	2-TYPE B	1.6	98	845		16.3	18.2	9.0	SEE SIGN DETAIL SHEET
103	п	E1-1A	264"	' X 156"	286.0			1	2	2-TYPE D	1.8	112	1484		22.8	25.5	13.2	SEE SIGN DETAIL SHEET
103A	п	E1-5	108"	' X 30''	22.5			1										MOUNT TOP RIGHT OF SIGN 103, EXIT 128
104	IH-43, N. OF ROWE RD	E9-1	144"	' X 54"	54.0			1	2	2-TYPE A	1.2	68	517		14.3	16.1	9.0	
105	IH-43, S. OF STH 42/USH 10/CTH JJ	E4-1A				1	2			2-TYPE D	1.8	112		1				OUTSIDE PROJECT LIMITS IN MANITOWOC COUNTY
105A	11	E1-5																INCLUDED IN SIGN 105 MOVE
106	IH-43, S. OF CTH P	E1-1A				1	2			2-TYPE C	1.8	100		1				OUTSIDE PROJECT LIMITS IN MANITOWOC COUNTY
106A	11	E1-5																INCLUDED IN SIGN 106 MOVE
					_													

PROJECT TOTALS 819.0 11 11.2 658 4523 2

SHEET: Ε HWY: **IH** 43 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES PROJECT NO: 1225-08-71

TRAFFIC CONTROL SUMMARY

				643.0	0300	643.0	0420	643.0	705	643.0	715	643.0	800	643.	0900	643.	1050	
			APPROX. SERVICE	DRU	JMS	BARRIO TYP		WARNING TYPI		WARNING TYP		ARROW B	OARDS	SIG	SNS			PCMS
			PERIOD	NO. IN		NO. IN		NO. IN		NO. IN		NO. IN		NO. IN		NO. IN		
STATION TO STATION	LOCATION	STAGES	DAYS	SERVICE	DAY	SERVICE	DAY	SERVICE	DAY	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	REMARKS
NORTHBOUND																		
565+09 NB - 930+05 NB	IH 43 NB	STAGE 1A	50	404	20200	30	1500	60	3000	14	700	2	100	50	2500	1	7	SOUTH ADVANCE WARNING
565+09 NB - 930+05 NB	IH 43 NB	STAGE 1B	50	404	20200	30	1500	60	3000	14	700	2	100	50	2500			
565+09 NB - 930+05 NB	IH 43 NB	STAGE 2A	20	404	8080	30	600	60	1200	14	280	2	40	50	1000			
565+09 NB - 930+05 NB	IH 43 NB	STAGE 2B	20	404	8080	30	600	60	1200	14	280	2	40	50	1000			
NORTH	BOUND TOTAL	_S			56560		4200		8400		1960		280		7000		7	
SOUTHBOUND																		
565+09 SB - 930+05 SB	IH 43 SB	STAGE 1A	44	404	17776	30	1320	60	2640	14	616	2	88	50	2200	1	7	NORTH ADVANCE WARNING
565+09 SB - 930+05 SB	IH 43 SB	STAGE 1B	45	404	18180	30	1350	60	2700	14	630	2	90	50	2250			
565+09 SB - 930+05 SB	IH 43 SB	STAGE 2A	15	404	6060	30	450	60	900	14	210	2	30	50	750			
565+09 SB - 930+05 SB	IH 43 SB	STAGE 2B	15	404	6060	30	450	60	900	14	210	2	30	50	750			
SOUTH	IBOUND TOTAL	_S			48076		3570		7140		1666		238		5950		7	
RAMPS																		
STH 42 NE RAMF)		150											3	450	1	3	RAMP CLOSURE
STH 42 NW RAM	P		150											2	300	1	3	RAMP CLOSURE
	RAMP TOTAL	_S			0		0		0		0		0		750		6	
UNDISTRIBUTED)				10,464		777		1,554		363		52		1,370		4	
P	ROJECT TOTAL	_S			115,100		8,547		17,094		3,989		570		15,070		24	_

PROJECT NO:	: 1225-08-71	HWY: IH 43	COUNTY: SHEBOYGAN	MISCELLANEOUS QUANTITIES	SHEET:	E
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3

PAVEMENT MARKING SUMMARY

				PAVE 4-INCH	646.0106 MENT MARKING 4-INCH	EPOXY 4-INCH	646.0841.S PAVEMENT MARKING GROOVED	646.0843.S PAVEMENT MARKING GROOVED	647.0803 PAVEMENT MARKING AERIAL	
				EDGELINE		EDGELINE		WET REFLECTIVE	ENFORCEMENT BARS	
				(WHITE)	(WHITE)	(YELLOW)	CONTRAST TAPE	CONTRAST TAPE	EPOXY	
				SOLID	3' LINE, 9' GAP		4-INCH	8-INCH	24-INCH	
STATION	то	STATION	LOCATION	LF	LF	LF	LF	LF	LF	REMARKS
		NORTHBOUND								
565+09.71 NB	-	574+45.18 NB	IH 43 NB	935		935	234			
574+45.18 NB	-	579+06.97 NB	IH 43 NB	462		462	116	924		MAINLINE & RAMP SECTION
579+06.97 NB	-	701+66.98 NB	IH 43 NB	12,260		12,260	3,066			
701+66.98 NB	-	704+86.09 NB	IH 43 NB	319		319	80	638		MAINLINE & RAMP SECTION
704+86.09 NB	-	930+05.38 NB	IH 43 NB	22,519		22,519	5,630			
		N	NORTHBOUND TOTALS		72,991		9,126	1,562	0	
		SOUTHBOUND								
565+96.77 SB		577+50.00 SB	IH 43 SB	1,153		1,153	289			
577+50.00 SB		580+94.99 SB	IH 43 SB	345		345	87	690		MAINLINE & RAMP SECTION
580+94.99 SB		583+94.99 SB	IH 43 SB	300	75	300	75			
583+94.99 SB		590+29.14 SB BK		634		634	159		12	AERIAL ENFORCEMENT BAR 585+95
590+48.32 SB AH		000110101 02 211		6,567		6,567	1,642		48	AERIAL ENFORCEMENT BAR 592+55, 599+15, 605+75, 612+35
655+98.34 SB AH		703+64.85 SB	IH 43 SB	4,767		4,767	1,192			
703+64.85 SB		706+75.34 SB	IH 43 SB	310		310	78	621		MAINLINE & RAMP SECTION
706+75.34 SB		726+54.94 SB BK		1,980		1,980	495			
		785+06.46 SB BK		5,856		5,856	1,464			
785+09.75 SB AH		873+97.95 SB BK		8,888		8,888	2,223			
873+97.71 SB AH	-	930+05.38 SB	IH 43 SB	5,608		5,608	1,402			
			COLITUDOUND TOTAL O		70.000		0.400	4 044		
		3	SOUTHBOUND TOTALS		72,889		9,106	1,311	60	
		RAMPS								
568+56.03 NE	_	574+42.48 NE	STH 42 NE RAMP	586		586				
573+99.67 NW		577+51.09 NW	STH 42 NW RAMP	351		351				
53+20.09 SE	_		ROWE RD SE RAMP	80		80				
00.20.00 02		01100.00 02	NOWE NO GENOUS	00		00				
					2,036		0	0	0	
-										
					147,916		18,232	2,873	60	

PROJECT NO: 1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET: **E**

TEMPORARY PAVEMENT MARKING SUMMARY

			2,094	6,	232	169	,138	2,000	
			250	4	00	84	,468	400	
				400	0	48,059	36,409		
580+95.00 'SB'		584+75.00 'SB'	125	200				200	STAGE 1D SB STH 42 RAMP
580+95.00 'SB'		584+75.00 'SB'	125	200				200	STAGE 1B SB STH 42 RAMP
565+96.77 'SB'		930+05.38 'SB'				48,059	36,409		EDGELINES LOWER LAYER AND SKIPS
		OUND							
			1,844	5,	832	84	,670	1,600	
				4,500	1,332	48,174	36,496		
574+75.00 'NB	'	591+41.00 'NB'	72	1,000	666			250	STAGE 1D NB STH 42 RAMP
571+75.00 'NB	'	583+25.00 'NB'	850	1,250				550	STAGE 1C NB STH 42 RAMP
574+75.00 'NB	'	591+41.00 'NB'	72	1,000	666			250	STAGE 1B NB STH 42 RAMP
571+75.00 'NB	'	583+25.00 'NB'	850	1,250				550	STAGE 1A NB STH 42 RAMP
565+09.71 'NB	' -	930+05.38 'NB'				48,174	36,496		EDGELINES LOWER LAYER AND SKIPS
NOF	RTHB	OUND							
STATION	TO	STATION	LF	LF	LF	LF	LF	LF	REMARKS
				WHITE	YELLOW	WHITE	YELLOW	WHITE	
			MARKINGS	TAPE	4-INCH	4-11	NCH	8-INCH	
			PAVEMENT	REMO	OVABLE	MARKIN	IG PAINT	REMOVABLE TAPE	
			REMOVING	MAR	KING	PAVE	MENT	MARKING	
				PAVE	EMENT	TEMP	ORARY	PAVEMENT	
				TEMP	ORARY			TEMPORARY	
			646.0600	649	.0400	649	.0402	649.0801	

HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP

SPV.0060.01
HMA PERCENT
WITHIN LIMITS
(PWL) TEST
STRIP
LOCATION
LF

HMA PAVEMENT 3 HT 58-28 S 1
HMA PAVEMENT 4 HT 58-28 S 1

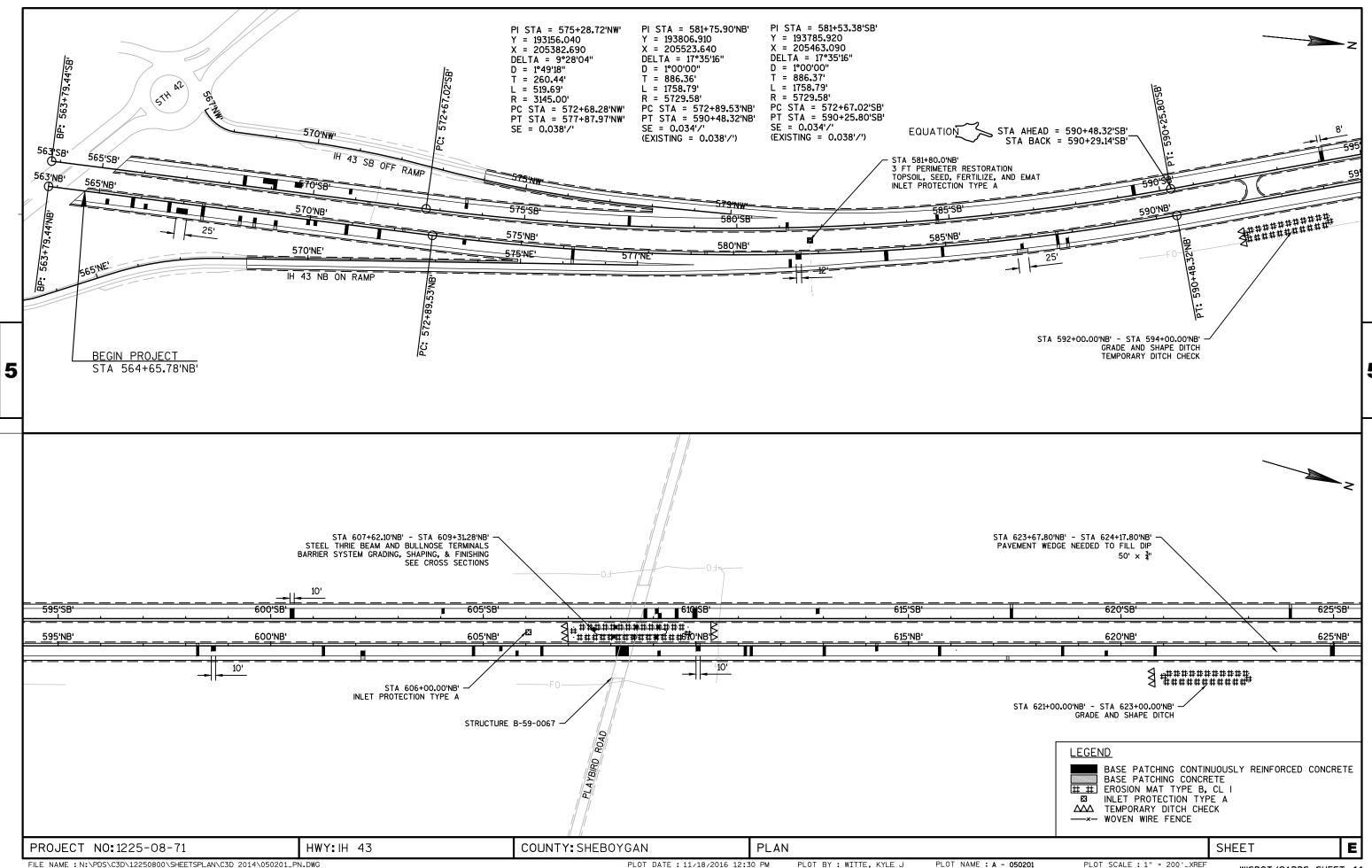
REMOVING RUMBLE STRIPS

				SPV.0090.01 REMOVE RUMBLE STRIPS
STATION	то	STATION	N LOCATION	LF
861+00 NB 919+00 NB	-	877+00 NB 929+50 NB	IH 43 NB LT IH 43 NB LT	1600 1050
859+00 NB	-	880+00 NB	IH 43 NB RT	2100
917+00 NB	-	932+00 NB	IH 43 NB RT	1500 6,250

CONSTRUCTION STAKING SUMMARY

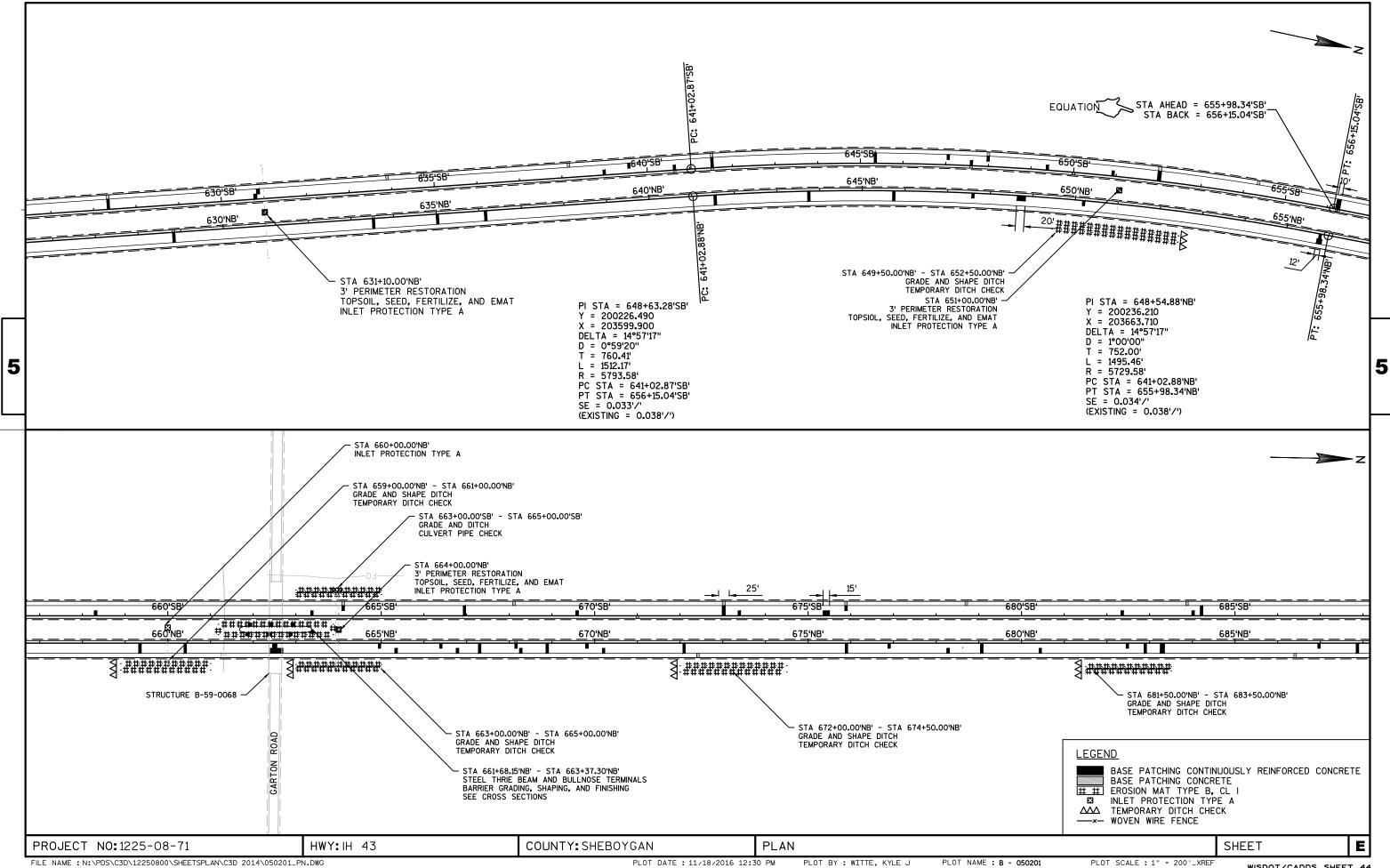
					650.6000	650.8000
						CONSTRUCTION
					CONSTRUCTION	STAKING
					STAKING PIPE	RESURFACIN
					CULVERTS	REFERENCE
STATION	TO	STATIC	N	LOCATION	EACH	LF
		NORTHBO	UND			
565+09.71 N	NB -	930+05.38	NB	IH 43 NB		36496
		872+00.00	NB	IH 43 NB	1	
		925+00.00	NB	IH 43 NB	1	
			N	ORTHBOUND TOTALS	2	36496
		SOUTHBO	UND			
565+96.77 SB	_	590+29.14	_	IH 43 SB		2432
590+48.32 SB A	λH -	656+15.04	SB BK	IH 43 SB		6567
655+98.34 SB A	₩ -	726+54.94	SB BK	IH 43 SB		7057
726+50.84 SB A	\Н -	785+06.46	SB BK	IH 43 SB		5856
785+09.75 SB A	\Н -	873+97.95	SB BK	IH 43 SB		8888
873+97.71 SB A	\Н -	930+05.36	SB	IH 43 SB		5608
			S	OUTHBOUND TOTALS	0	36407
		RAMPS	3			
568+00.00 SE'	-	577+75.00	SE'	STH 42 NE RAMP		975
574+00.00 SW	-	579+85.00	SW	STH 42 NW RAMP		585
50+00.00 SE'	-	54+00.00	SE'	ROWE RD SE RAMP		400
28+59.00 SE'	-	32+00.00	SE'	ROWE RD SW RAMP		341
				RAMP TOTALS	0	2301
				PROJECT TOTALS	2	75,204

PROJECT NO: 1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET: E

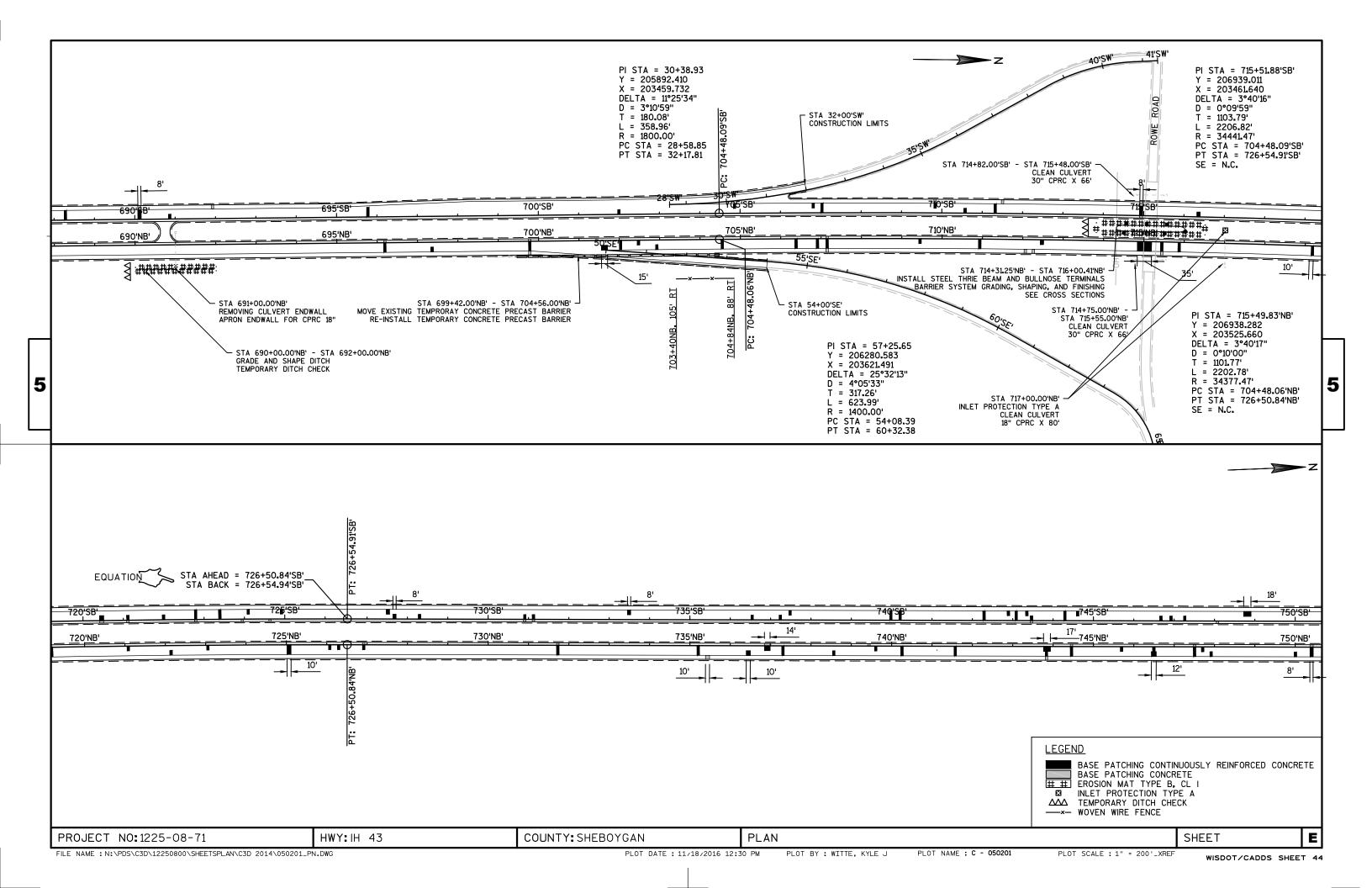


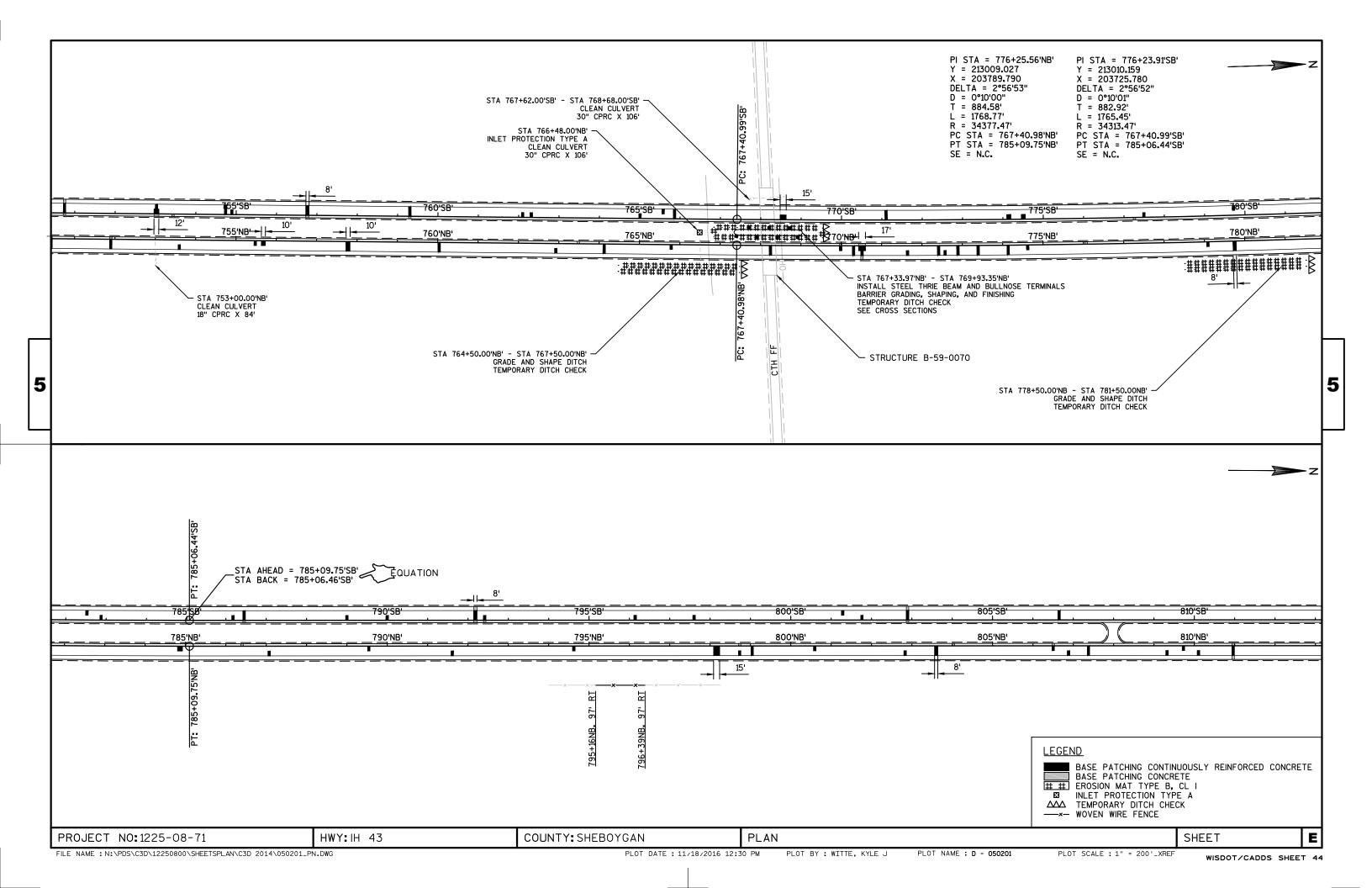
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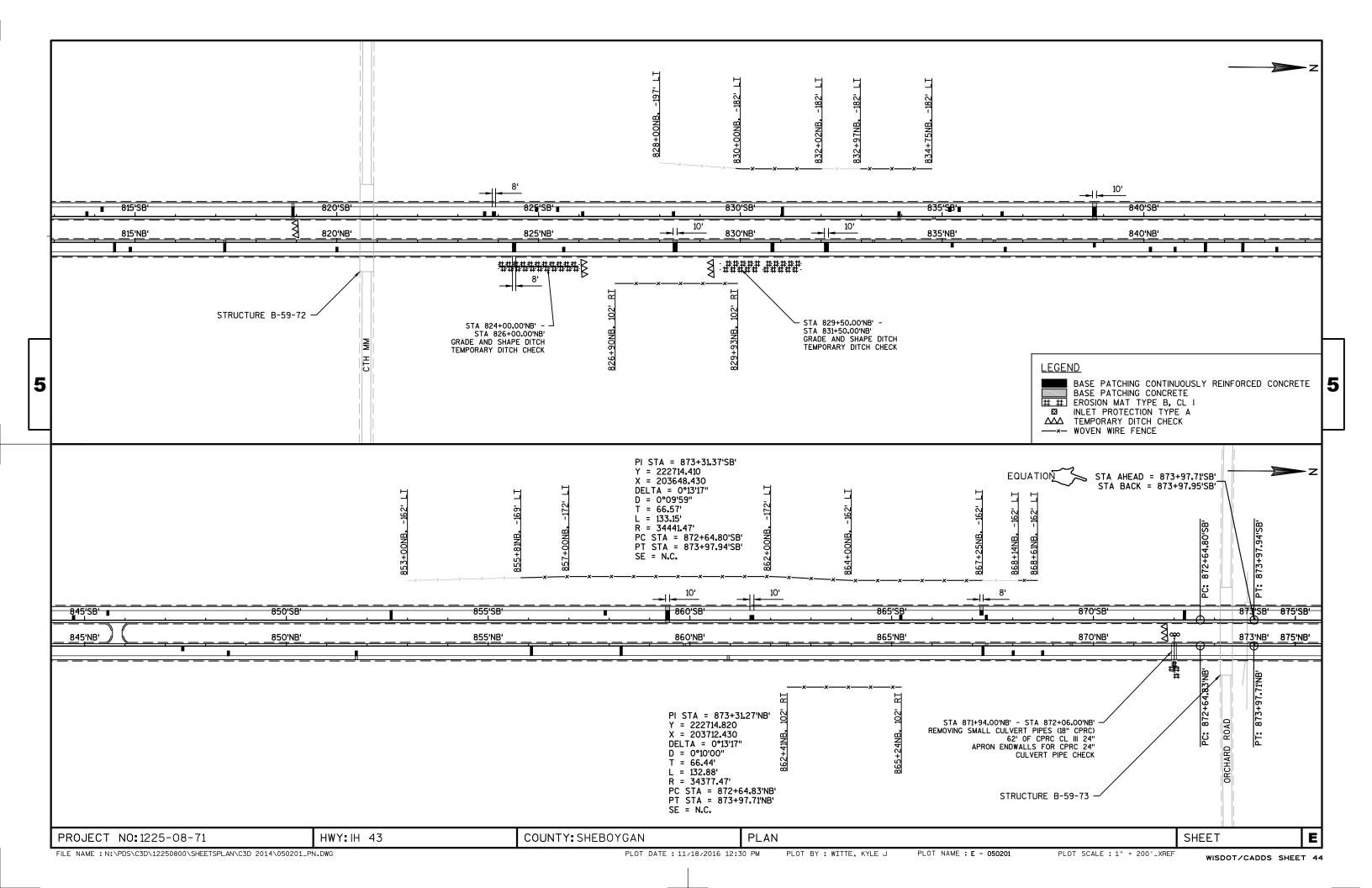
WISDOT/CADDS SHEET 44

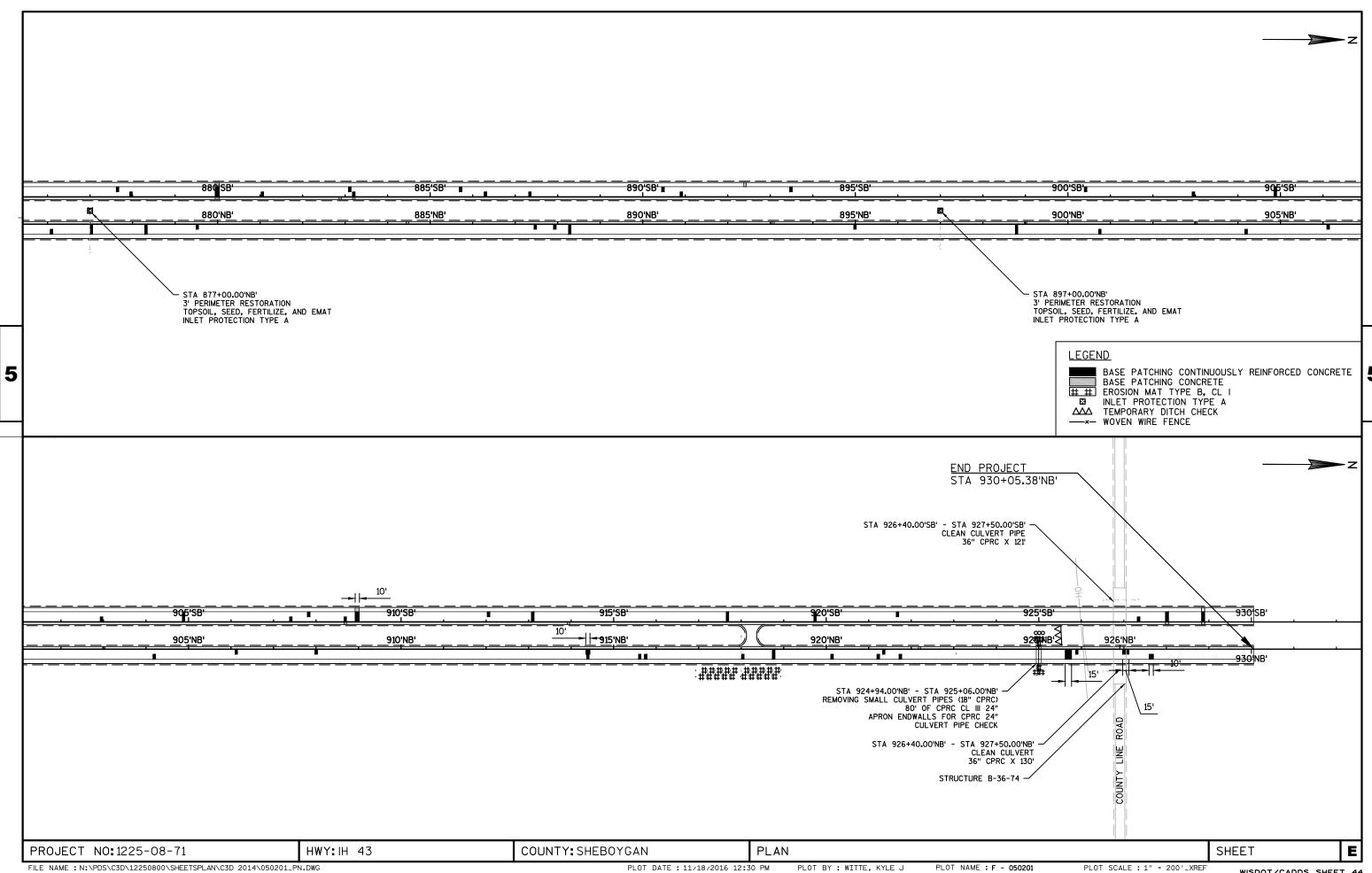


WISDOT/CADDS SHEET 44









WISDOT/CADDS SHEET 44

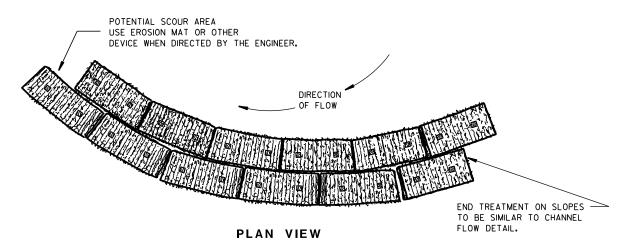
Standard Detail Drawing List

08E08-03 08E10-02 08F02-01 08F04-07 11A01-05 13A05-05A 13A05-05B 13A07-02 13C14-06A 13C14-06B 13C14-06C 14B07-14A 14B07-14B 14B07-14C 14B07-14D 14B07-14E	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS INLET PROTECTION TYPE A, B, C AND D APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL MAINTENANCE CROSSOVER FOR FREEWAYS SHOULDER RUMBLE STRIP, MILLING SHOULDER RUMBLE STRIP, MILLING CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR AND REPLACEMENT BASE PATCHING CONCRETE BASE PATCHING CONCRETE BASE PATCHING CONCRETE CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B26-03A	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03B	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03C 14B26-03D	STEEL THREE BEAM BULLNOSE TERMINAL
	STEEL THRIE BEAM BULLNOSE TERMINAL STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03E 15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02A 15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-06A 15B01-08B	FENCE WOVEN WIRE
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-10A	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15D03-03	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D03-03 15D12-06B	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D27-03	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

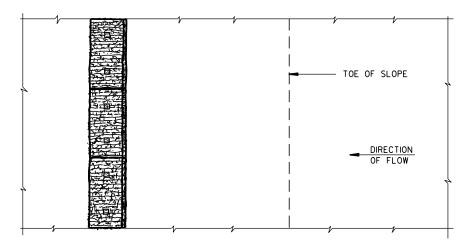
GENERAL NOTES

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.

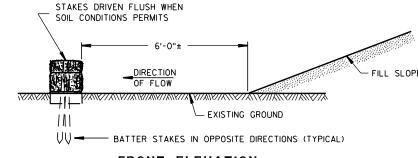
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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INLET PROTECTION, TYPE A

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

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.



INLET PROTECTION, TYPE C (WITH CURB BOX)

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

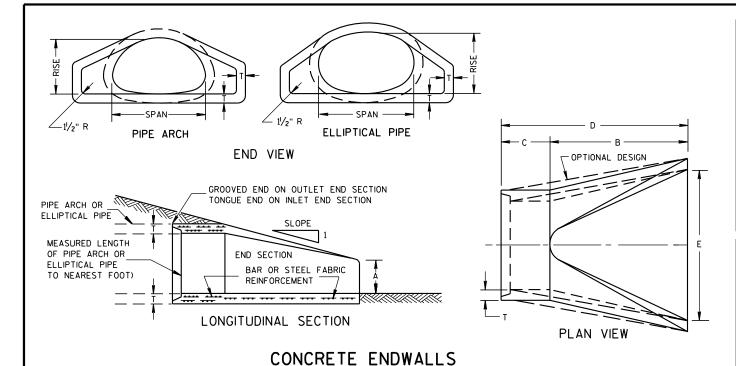
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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				2-	2/3"	X 1/2"	COR	RUGAT	IONS				
EQUIV.	(Incl	2001	MIN. 1	HICK.			DIMENS	SIONS (I	nches)			APPROX.	
DIA.			(Inch		A	(MAX.)	₩ (±2")	SLOPE	BODY				
(Inches)	SPAN	RISE	STEEL	ALUM.	(±]")	3E0. E							
15	17	13	.064	.060	7	9	6	19	14	16	30	2½+o 1	1Pc.
18	21	15	.064	.060	7	10	6	23	14	193/8	36	21/2+o 1	1Pc.
21	24	18	.064	.060	8	12	6	28	18	213/4	42	21/2+o 1	1Pc.
24	28	20	.064	.060	9	14	6	32	18	271/2	48	21/2+o 1	1Pc.
30	35	24	.079	.075	10	16	6	39	18	375/8	60	21/2+o 1	1Pc.
36	42	29	.079	.075	12	18	8	46	24	45%	75	21/2+o 1	1Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	21/2+o 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	21/2+0 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	723/4	102	21/4+0 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	821/4	114	21/4+0 1	3 Pc.
66	77	52	.109×	.105 *	18	36	12	77	_	_	126	2 to 1	3 Pc.
72	83	57	.109 *	.105*	18	39	12	77	_	_	138	2 to 1	3 Pc.

				3	3" X 1	ı" COR	RUGA	TIONS					
EQUIV. DIA.	(Incl	nes)	MIN. 1		Α	В	DIMENS H	SIONS (I	nches) L1	L ₂	w	APPROX.	BODY
(Inches)	SPAN	RISE	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1½")		0	(±2")	SLOPE	
48	53	41	.109	.105	18	26	12	63	24	723/4	90	2½+o 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	821/4	102	2 to 1	2 Pc.
60	66	51	.109*	. 105*	18	33	12	77	_	_	114	11/2+0 1	3 Pc.
66	73	55	.109 ×	. 105*	18	36	12	77	_	_	126	11/2+0 1	3 Pc.
72	81	59	.109*	. 105*	18	39	12	77	_	_	138	2 to 1	3 Pc.
78	87	63	.109*	.105 *	22	38	12	77	_	_	148	11/2+0 1	3 Pc.
84	95	67	.109*	. 105*	22	34	12	77	_	_	162	11/2+0 1	3 Pc.
90	103	71	.109 *	. 105*	22	38	12	77	_	_	174	1½+o 1	3 Pc.
96	112	75	.109*	. 105*	24	40	12	77	_	_	174	1/2+0 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

THREADED 7/6" DIA. ROD OVER TOP OF APRON, SIDE

LUGS TO BE RIVETED TO

MEASURED LENGTH OF PIPE ARCH

MEASURED LENGTH

OF PIPE ARCH

SECTION

CONNECTOR SECTION

TO BE PAID FOR AS

PART OF END SECTION

CONNECTOR

* EXCEPT CENTER PANEL SEE GENERAL NOTES

ROD HOLDER

COUPLING BAND

REQUIRED

RIVETED OR

BOLTED

REINFORCED CONCRETE PIPE ARCH									
EOUIV. DIMENSIONS (Inches)						5)			APPROX.
DIA. (Inches)	** SPAN	** RISE	T	A	В	С	D	E	SLOPE
24	29	18	3	81/2	39	33	72	48	3 to 1
30	36	22	31/2	91/2	50	46	96	60	3 to 1
36	44	27	4	111/8	60	36	96	72	3 to 1
42	51	31	41/2	1513/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	51/2	251/2	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	281/2	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE									
EOUIV.	DIMENSIONS (Inches)							APPROX.	
DIA. (Inches)	** SPAN	** RISE	T	A	В	С	D	Ε	SLOPE
24	30	19	31/4	81/2	39	33	72	48	3 to 1
30	38	24	3¾	91/2	54	18	72	60	3 to 1
36	45	29	41/2	111/8	60	24	84	72	21/2+o 1
42	53	34	5	15¾	60	36	96	78	21/2+o 1
48	60	38	51/2	21	60	36	96	84	2½+o 1
54	68	43	6	251/2	60	36	96	90	2½+o 1
60	76	48	61/2	30	60	36	96	96	2½+o 1

**NOMINAL SIZE

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.

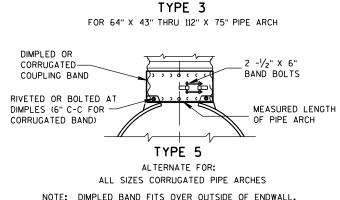
CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH 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 ARCH

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" 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 ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



TYPE 2

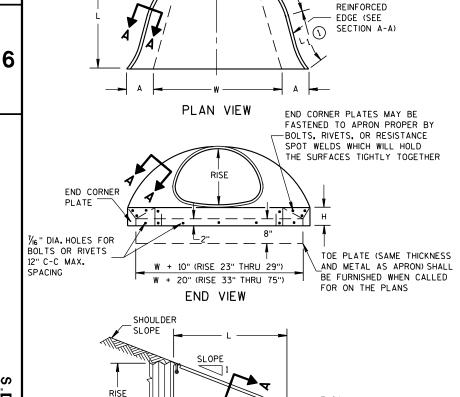
FOR 17" X 13" THRU 112" X 75" PIPE ARCH

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

APRON ENDWALLS FOR
PIPE ARCH AND
ELLIPTICAL PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
11/30/94	/S/ Rory L. Rhinesmith
DATE	CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



SIDE ELEVATION

METAL ENDWALLS

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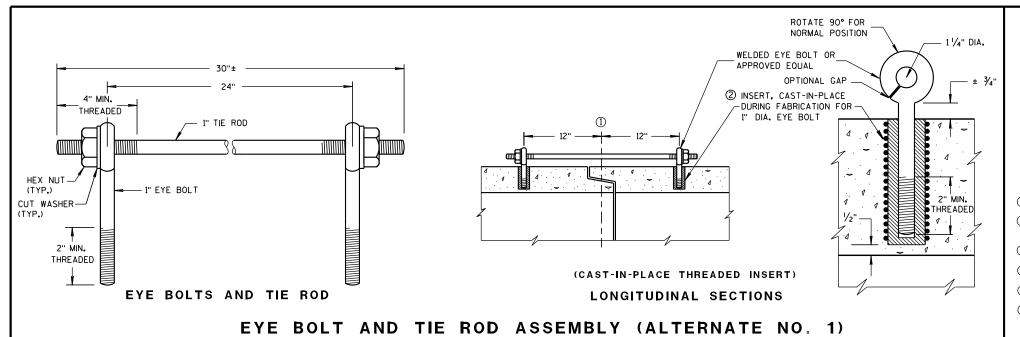
FLOW

0.109" THICK GALV. STEEL OR 0.109" THICK ALUMINUM 3/8" DIA. RIVETS SPACED APRON SIDEWALL -AT 6" C-C SHEET 1" O.D. X O.079" THICK GALV. STEEL OR 0.075" THICK ALUM. TUBING SLIPPED OVER SHEET AND RIVETS PRIOR TO FABRI-CATION OF THE END SECTION 38" DIA. X 1/2" - GALV. STEEL OR ALUM. BUTTONHEAD RIVETS SPACED AT 6" C-C. OVER-LENGTH OF RIVET = 0.78" OUTSIDE OF APRON SIDEWALL SHEET EDGE OF SIDEWALL SHEET MINIMUM 7/6" DIA. GALV. -ROLLED SNUGLY AGAINST STEEL ROD OR 10M STEEL ROD GALV. REINFORCING BAR

SECTION A-A

— 1/8" (APPROX.)

CONNECTION DETAILS



GENERAL NOTES

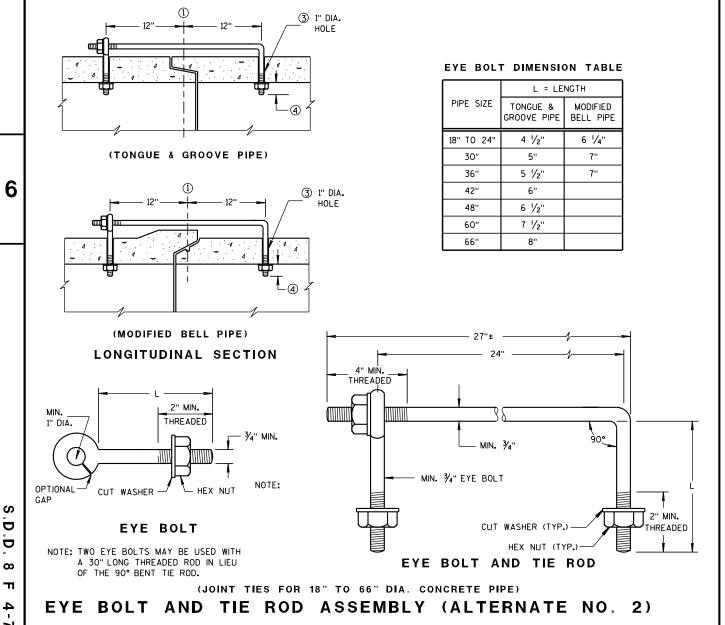
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

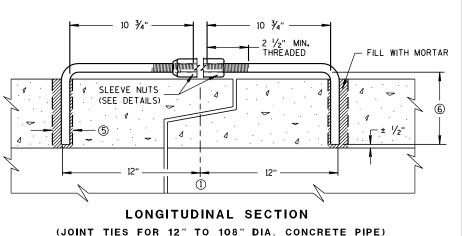
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.

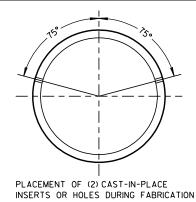


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ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

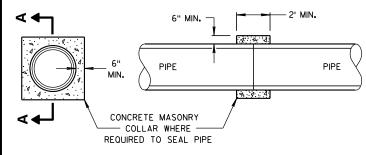


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

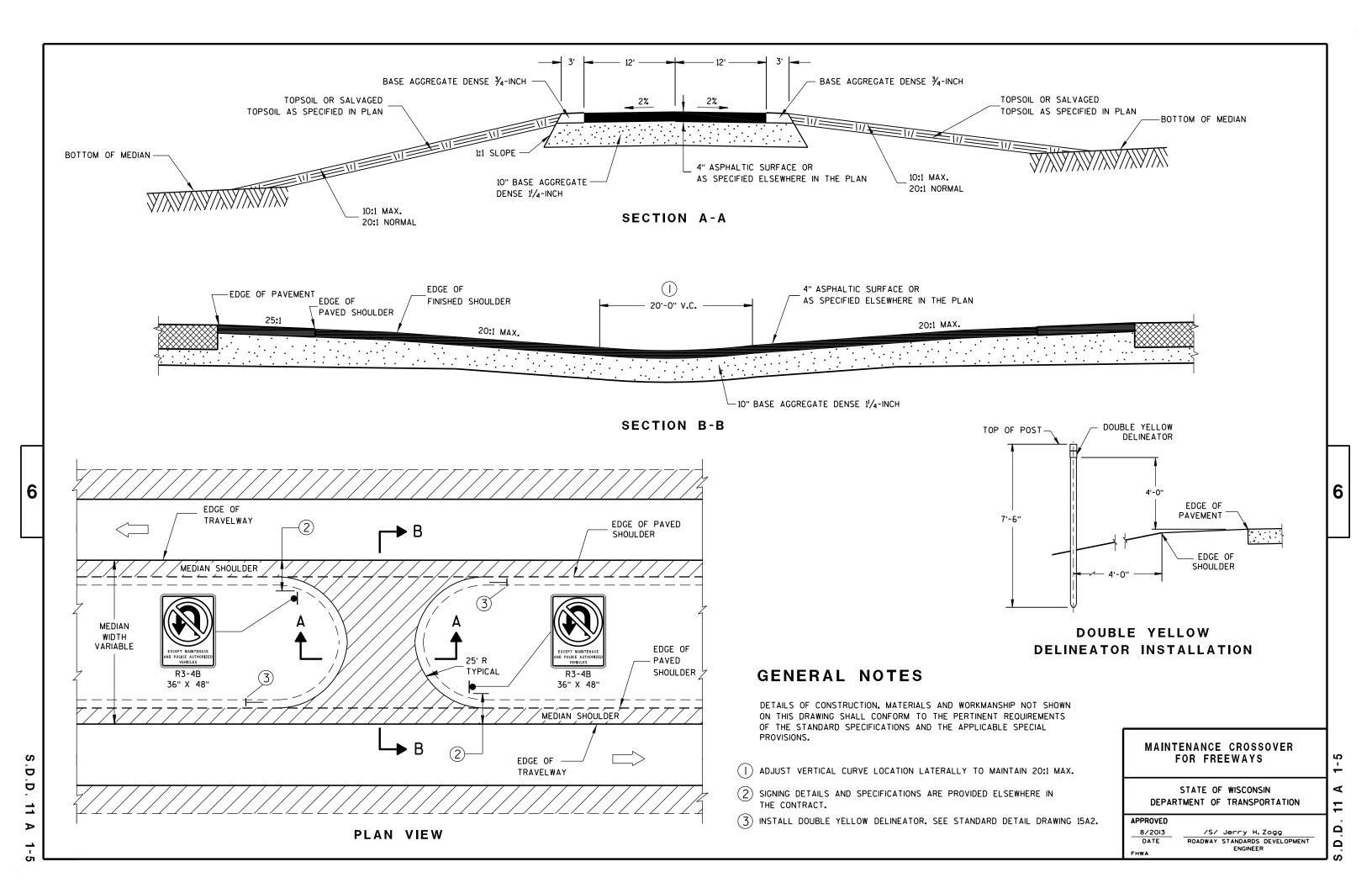
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

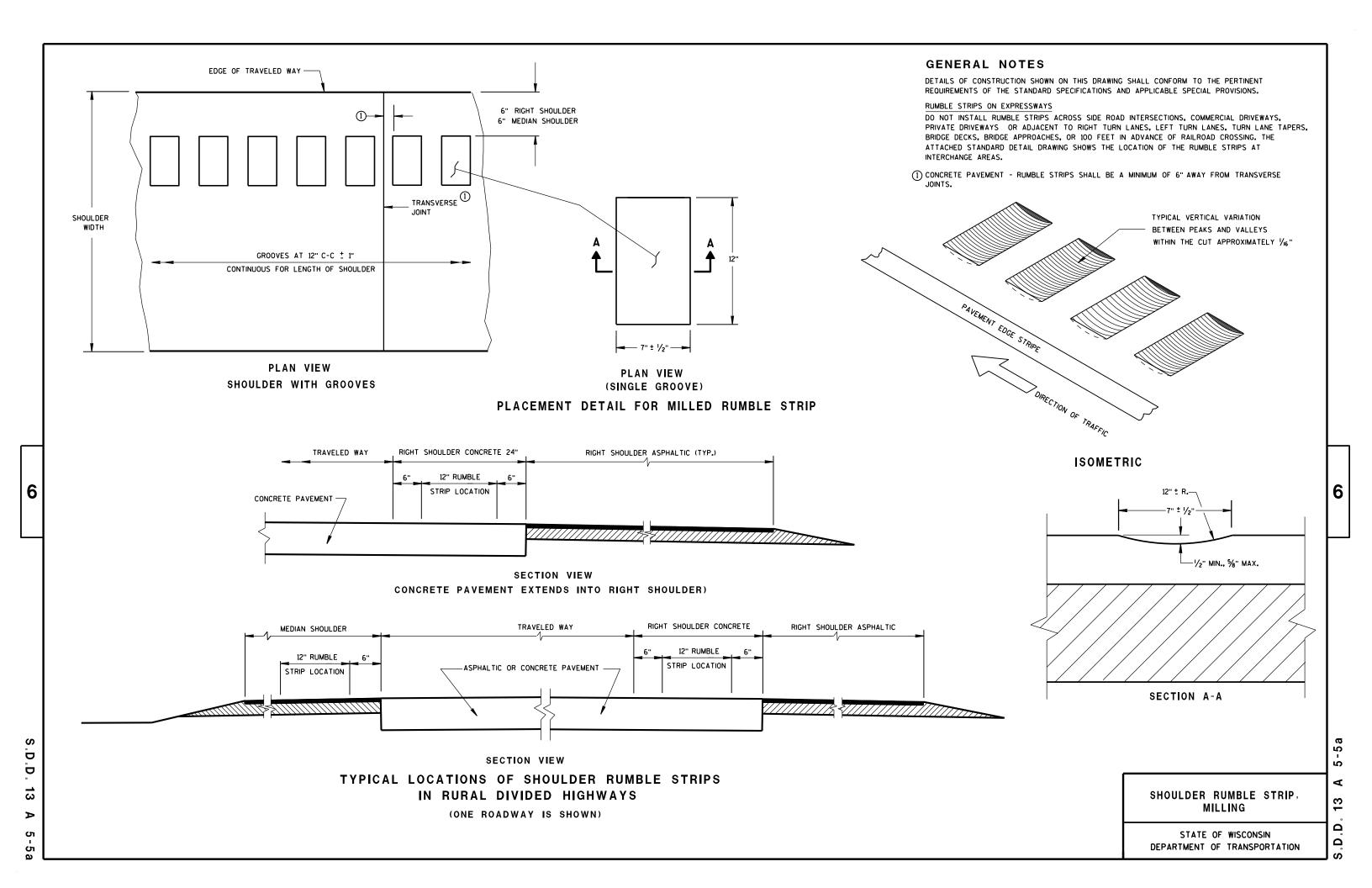
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

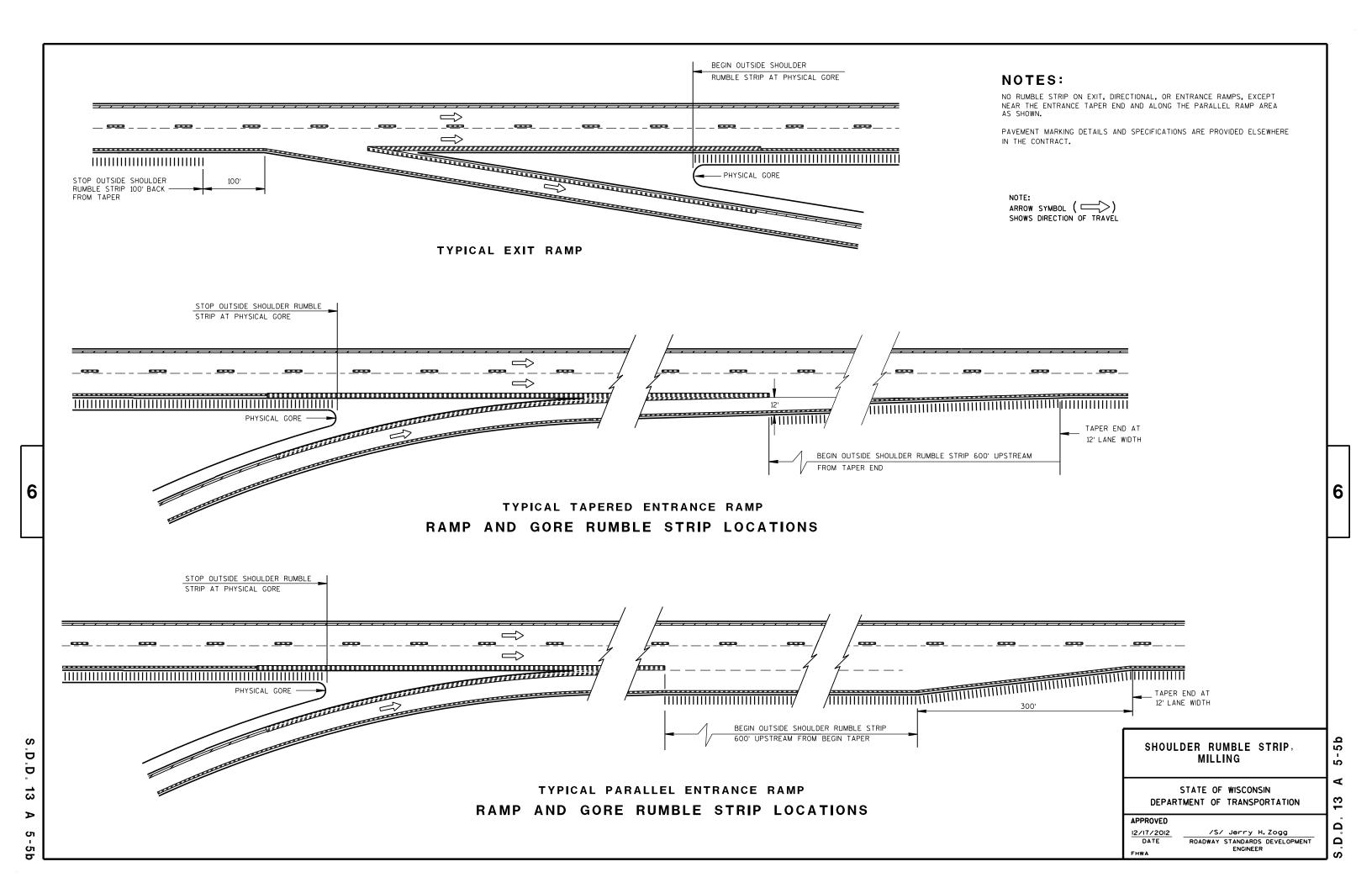
6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

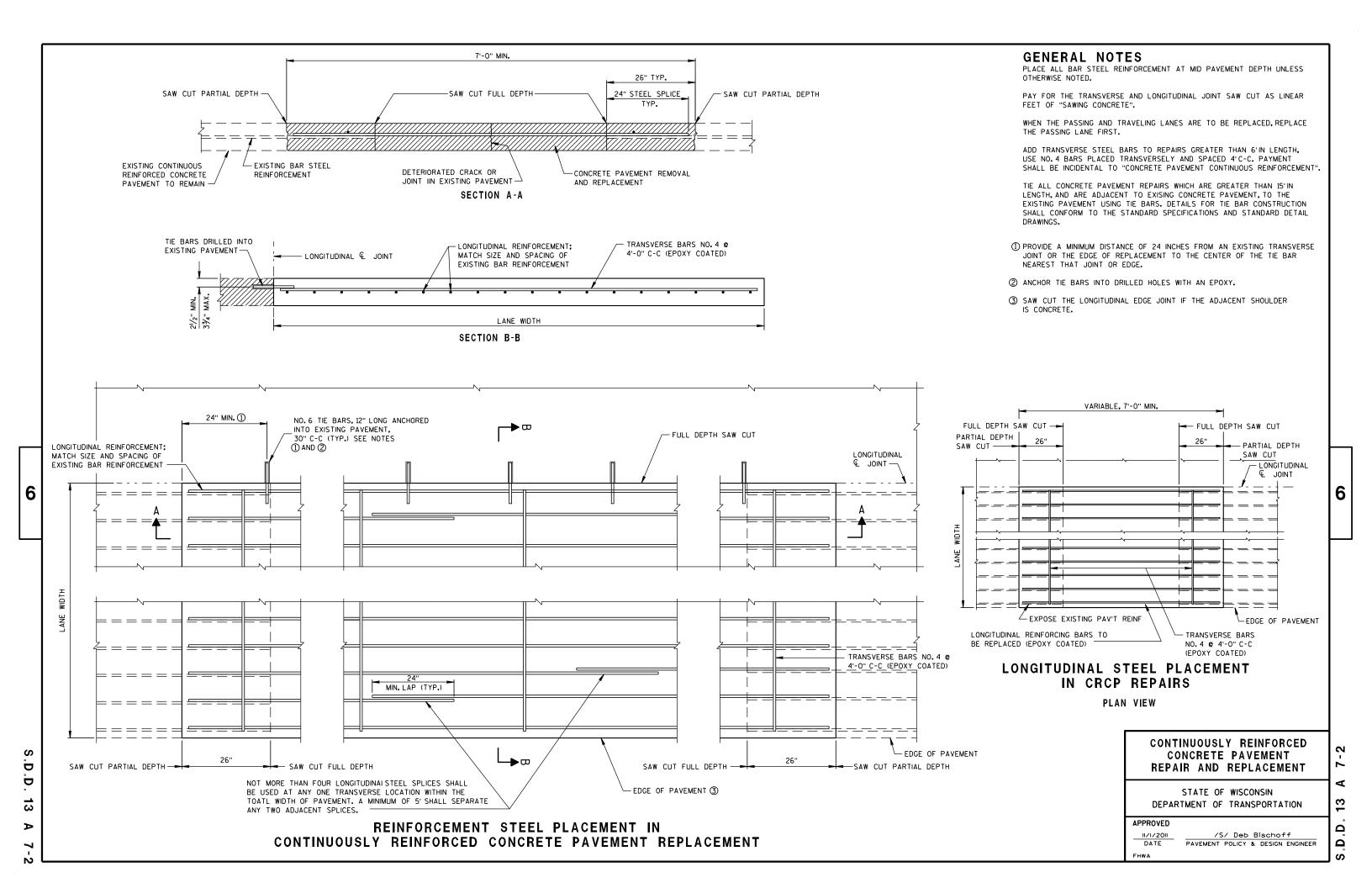
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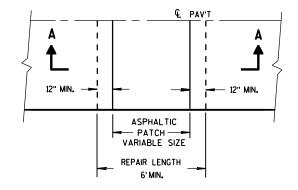




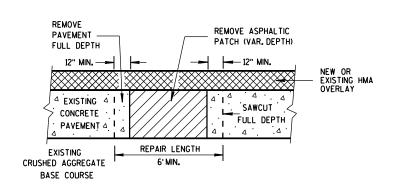
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

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.

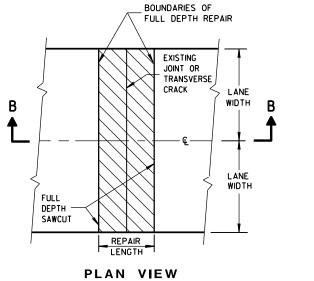


PLAN VIEW

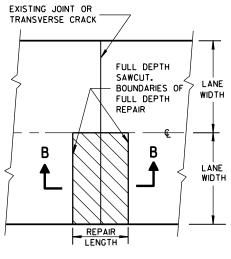


SECTION A-A

HMA PATCH REMOVAL

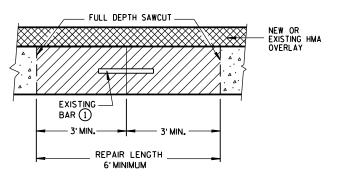


PLAN VIEW (DOUBLE LANE REPAIR)



PLAN VIEW (SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B-B

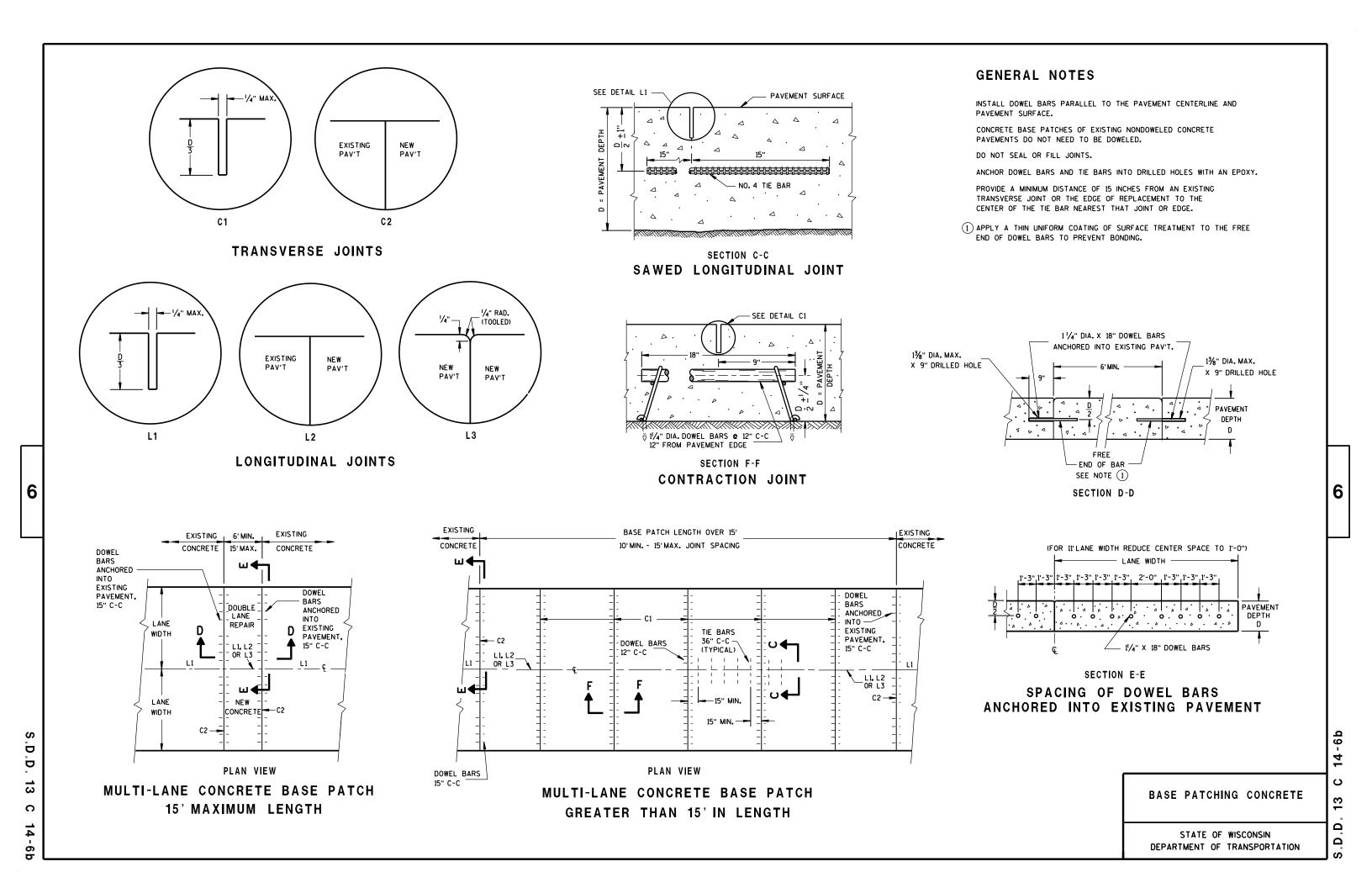
CONCRETE REMOVAL

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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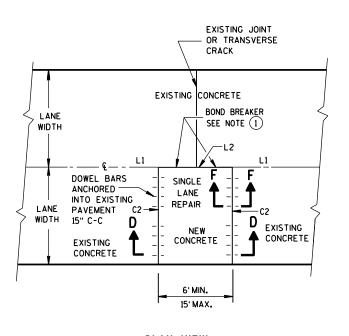
14-6a



INTO EXISTING PAVEMENT

GENERAL NOTES

- (1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.
- (2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED 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.
- 3 ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



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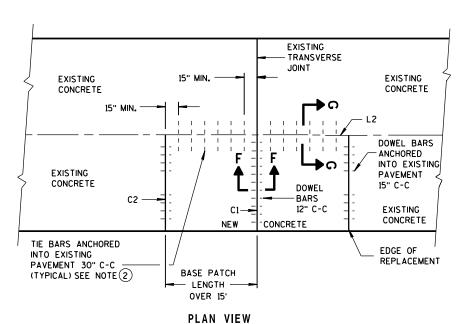
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PLAN VIEW
SINGLE LANE CONCRETE BASE PATCH
15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

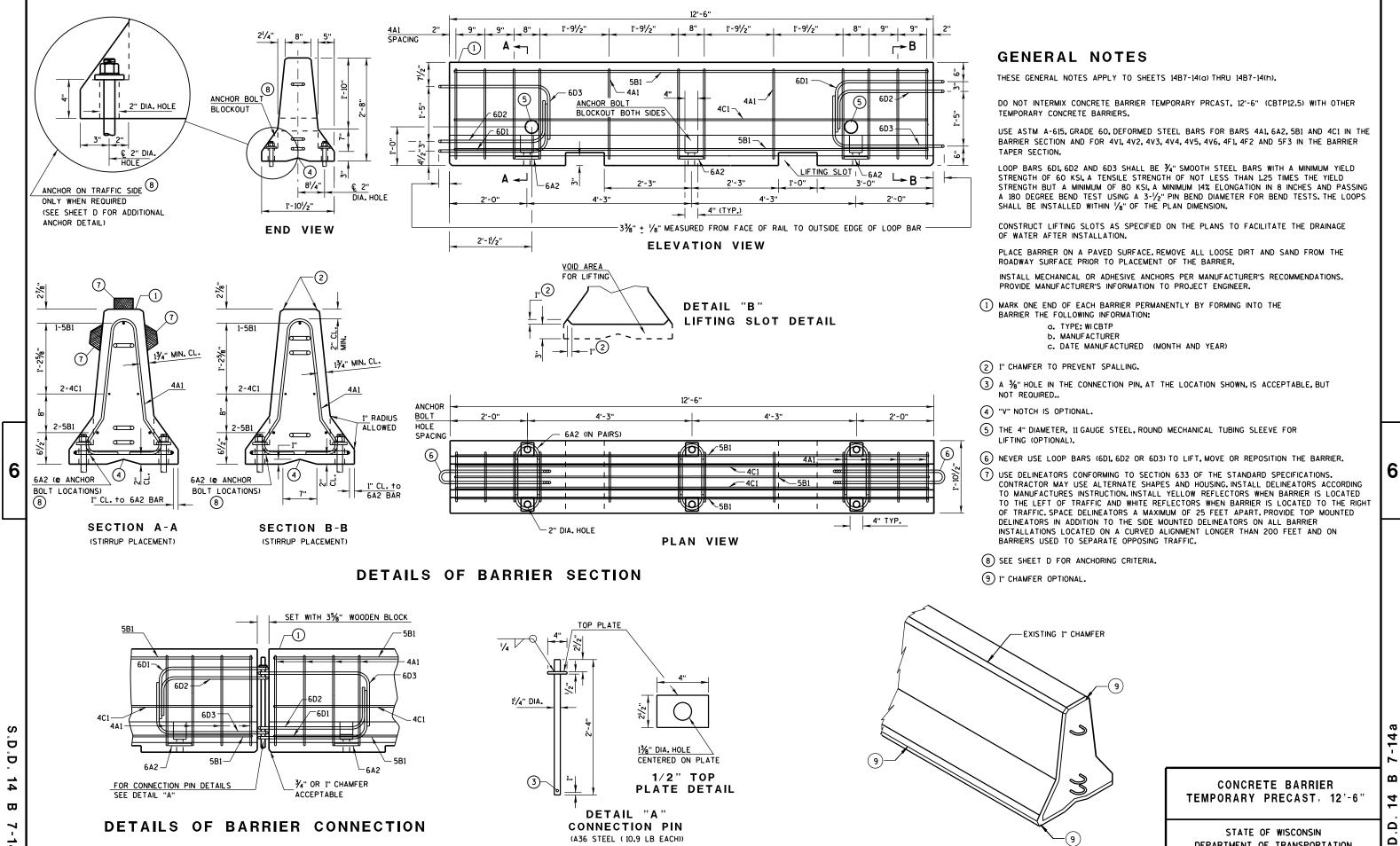
APPROVED

Sept., 2015
DATE

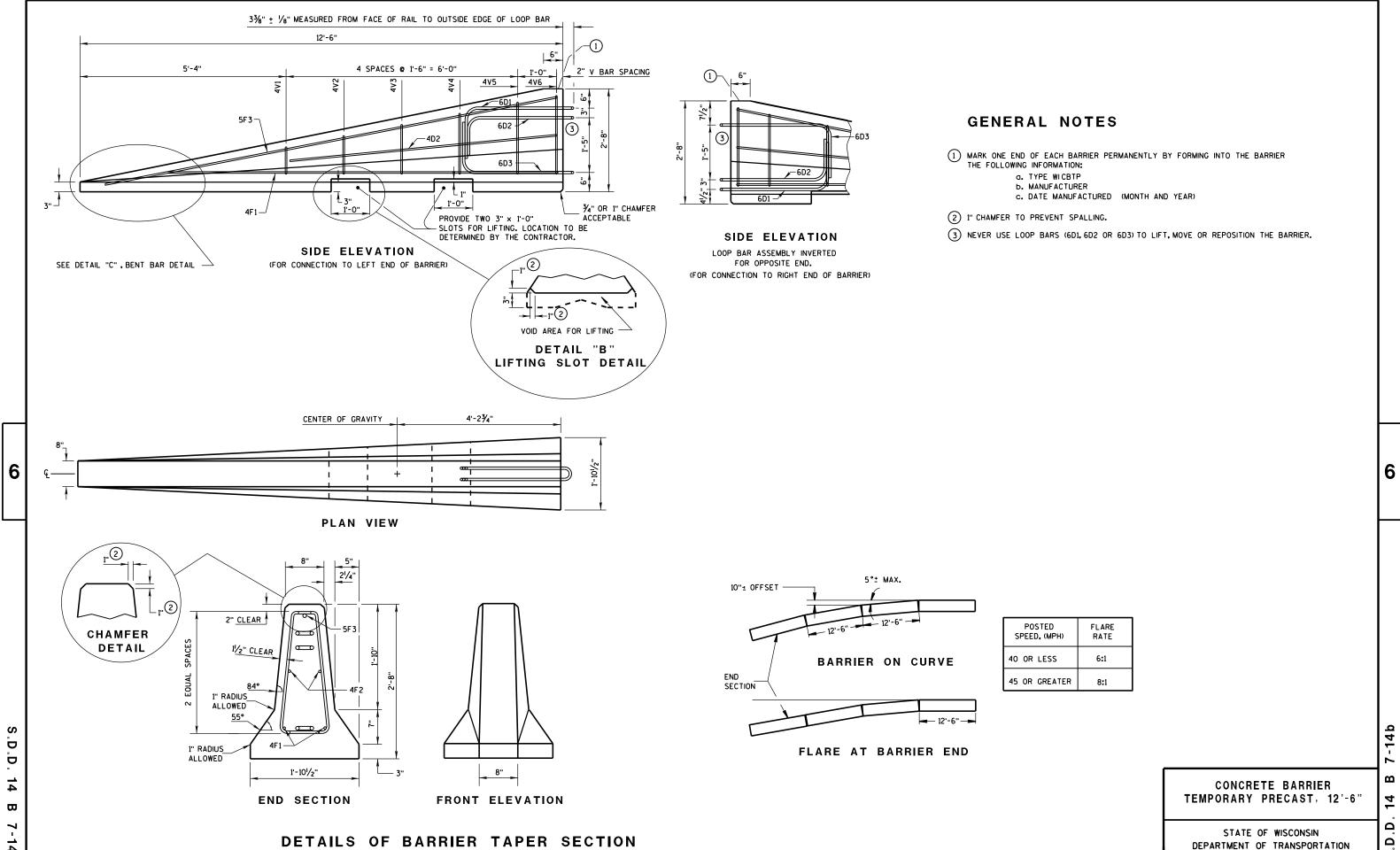
/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISOR
FHWA

3.D.D. 13

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DEPARTMENT OF TRANSPORTATION



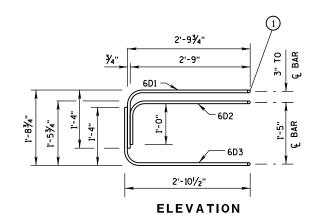
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1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

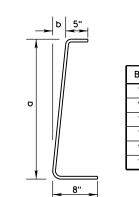
BARRIER TAPER SECTION BILL OF MATERIALS

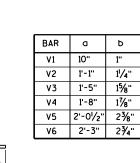
(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANNEN TALEN SECTIONS						
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.			
4V1	4	2	1'-11"			
4V2	4	2	2'-2"			
4٧3	4	2	2'-6"			
4V4	4	2	2'-9"			
4V5	4	2	3'-2"			
4V6	4	2	3'-4"			
4F1	4	2	12'-0"			
4F2	4	2	7'-6"			
5F3	5	1	11'-9"			
LOOP ASSEMBLY						
6D1	6	1	8'-5"			
6D2	6	1	7'-7"			
6D3	6	1	8'-6"			
		•	•			



LOOP BAR ASSEMBLY





DETAIL "C" BENT BAR DETAIL

2" MIN. CLEAR

2" MIN. CLEAR

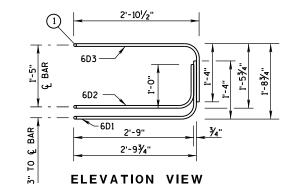
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

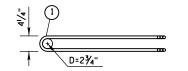
TAPER BARRIER SECTION

BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

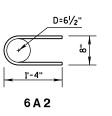
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.				
4A1	4	12	6'-0"				
6A2	6	6	2'-11"				
5B1	5	3	12'-2"				
4C1	4	2	12'-2"				
LOOP ASSEMBLY							
6D1	6	2	8'-5"				
6D2	6	2	7'-7"				
6D3	6	2	8'-6"				

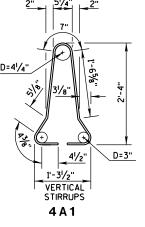




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)



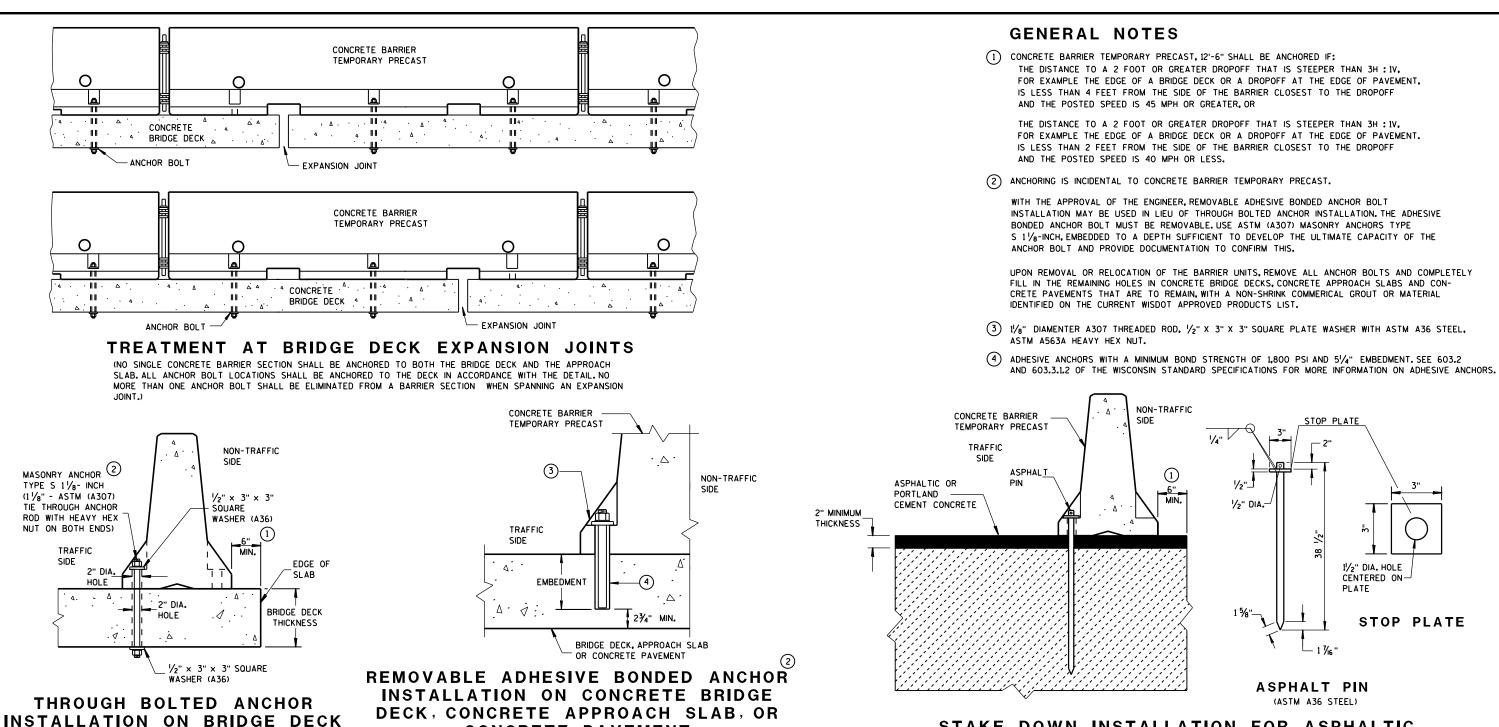


BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

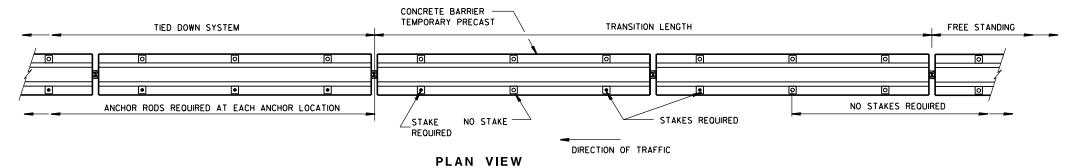
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

.D.D. 14 B 7-14c



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

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(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

11/2" DIA. HOLE

CENTERED ON-

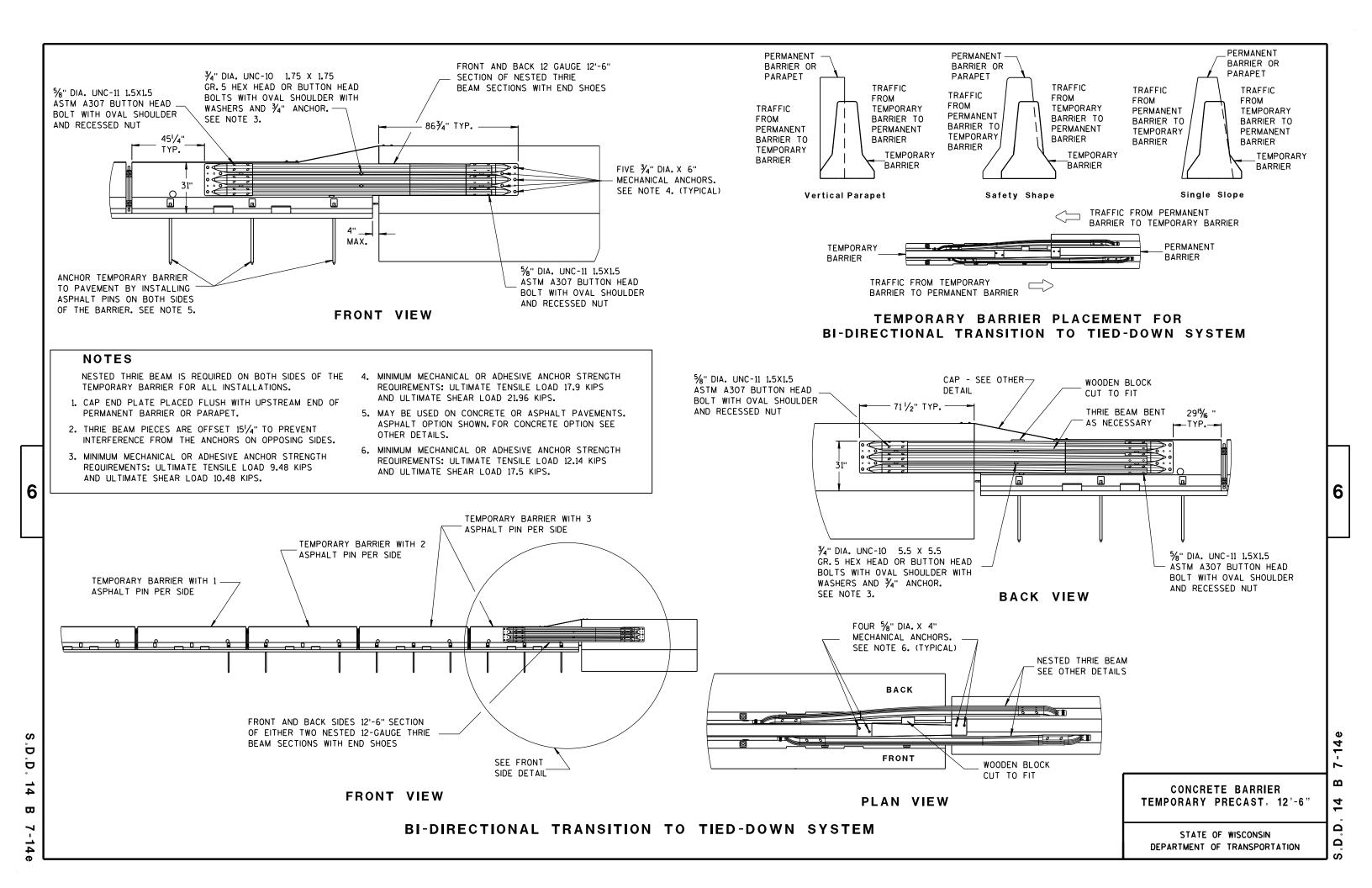
STOP PLATE

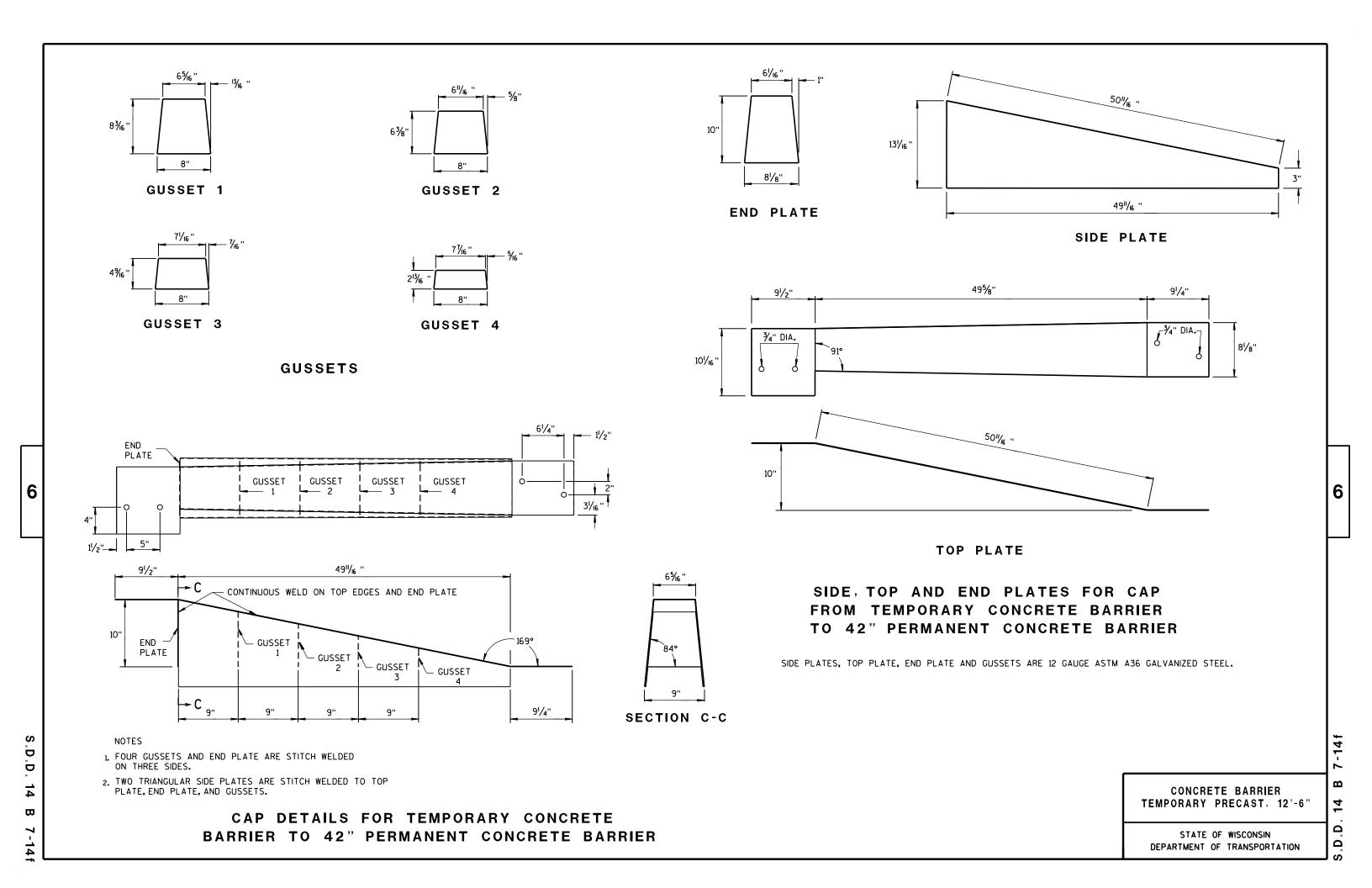
PLATE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

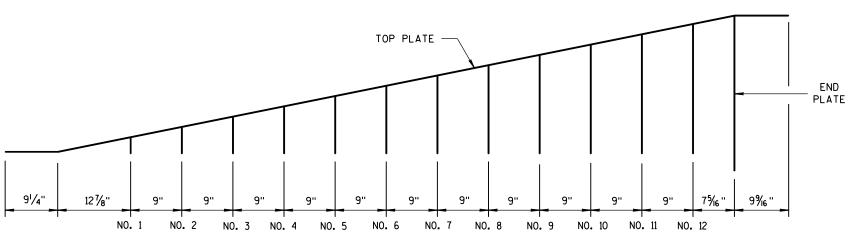
4 Δ Δ





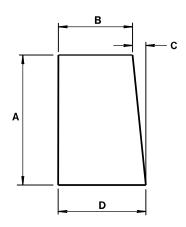
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GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET No.	A	В	С	D
1	21/8"	73/4"	1/4"	8
2	4"/16 "	7% "	1/2"	8
3	61/2"	73/8"	11/16 "	81/16 "
4	85/16"	73/16"	7∕8"	8½ ₆ "
5	101/8"	7"	1 ½ ₆ "	81/16 "
6	11 ¹⁵ / ₁₆ ''	6 ¹³ / ₁₆ "	1 1/4"	81/16"
7	13¾"	65%"	1 ½6"	81/16"
8	15% "	6¾6"	1 % "	81/16"
9	173/8"	61/4"	1 ¹³ / ₁₆ ''	8½6"
10	193/6"	6½ ₆ "	1 15/16 "	81/16 "
11	21"	57/8"	23/6"	8½ ₆ "
12	22 ¹³ / ₁₆ "	5"/16 "	25/6"	8½ ₆ "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

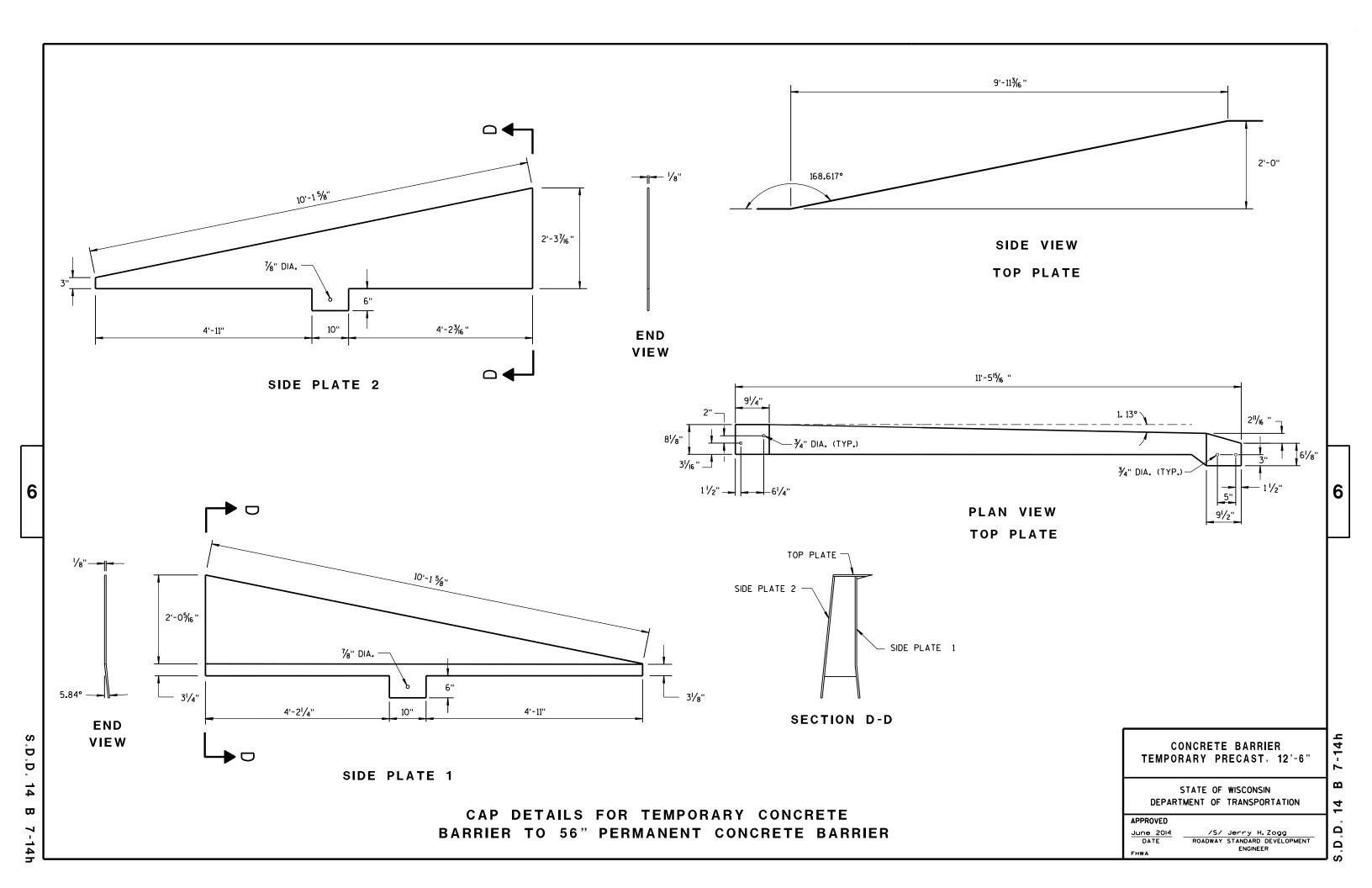
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

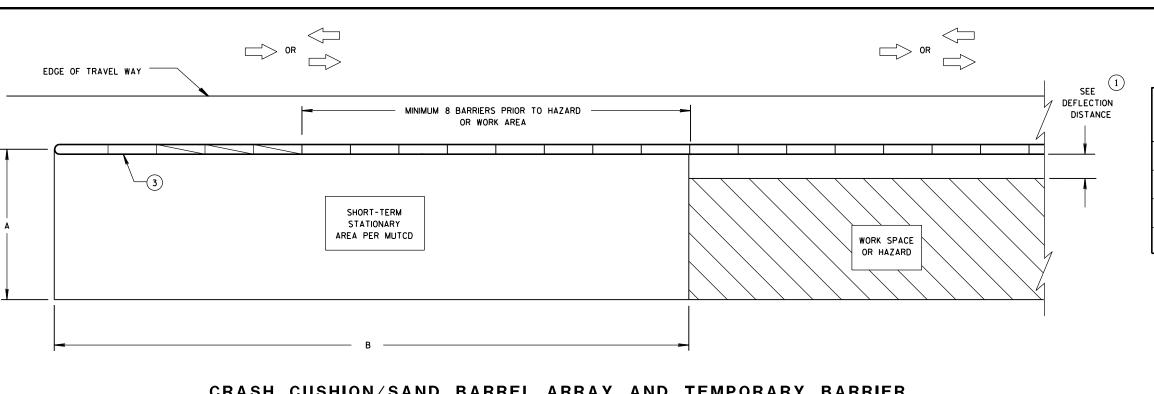
> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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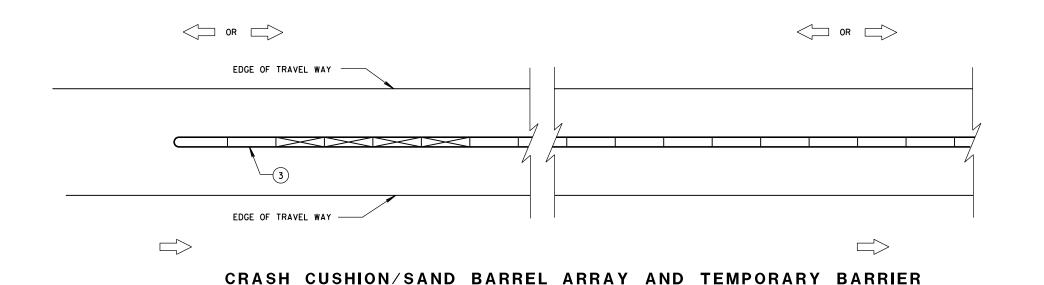
DIMENSION A TABLE (2)

		DIMENSION A	
FACILITY	POSTED SPEED MPH	MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED	DIMENSION
SPEEDS	В
MPH	FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

LEGEND

PERMANENT CONCRETE BARRIER

GENERAL NOTES

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SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS, DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

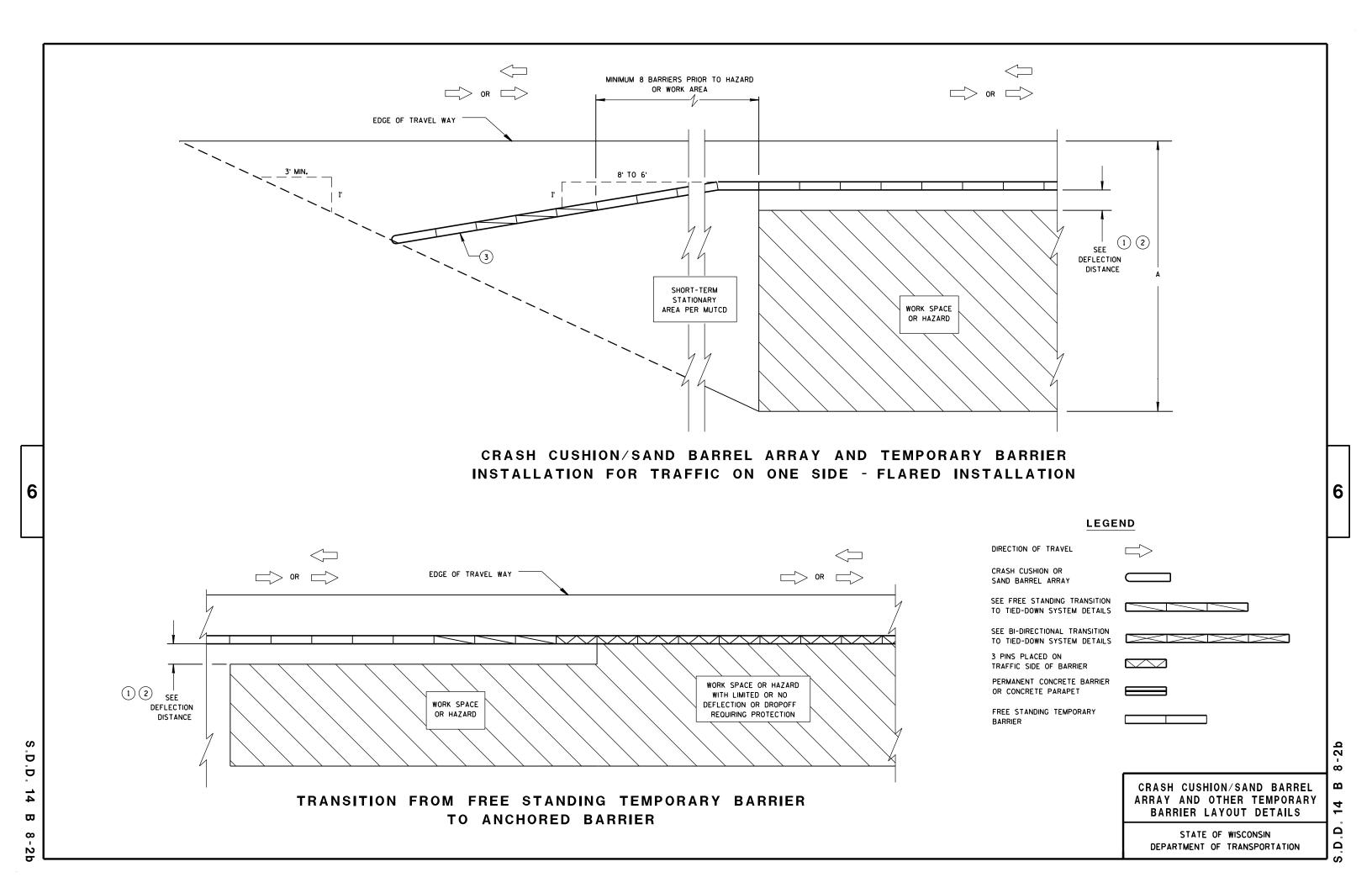
- (1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.
- (2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.
- (3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

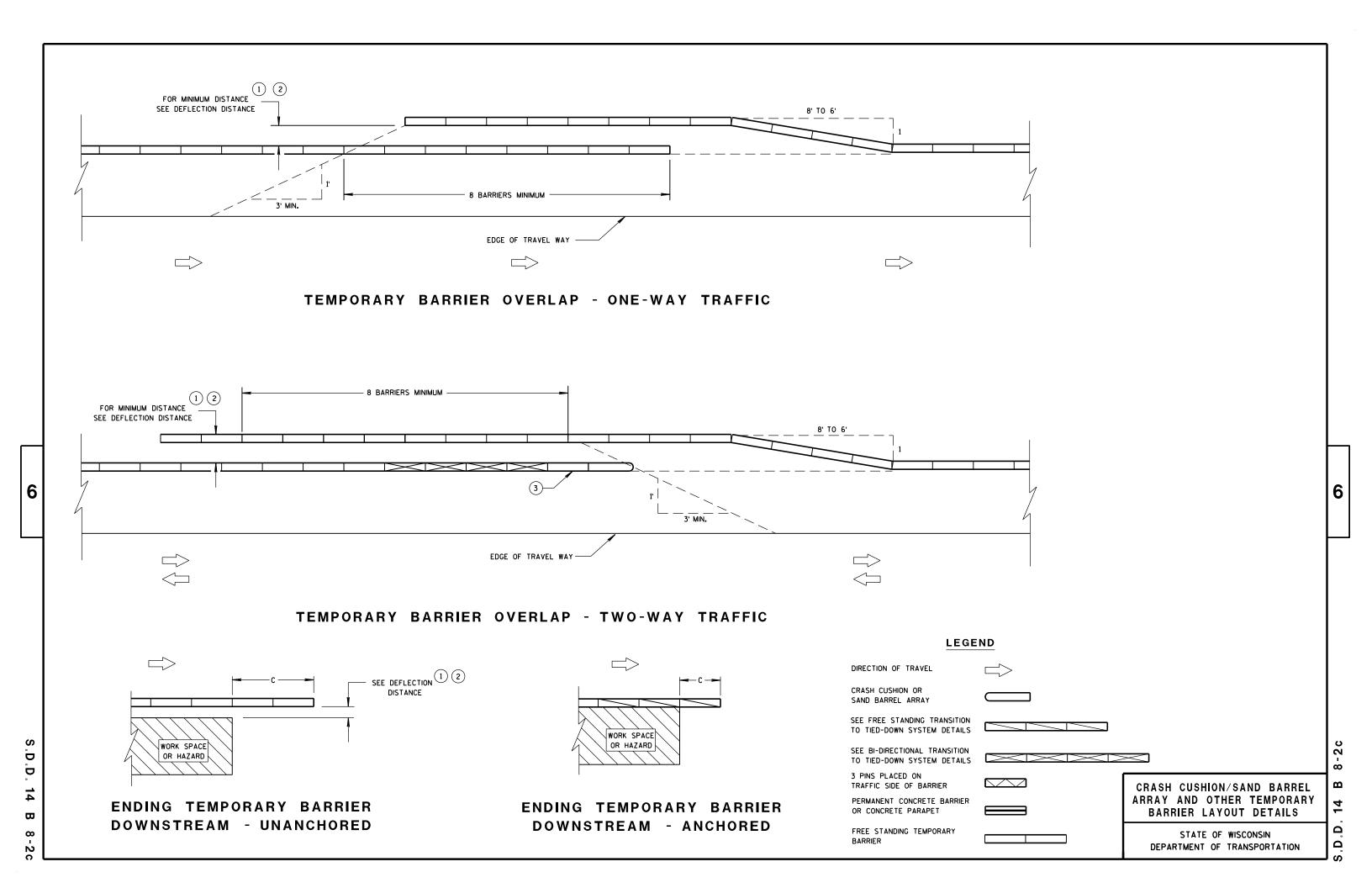
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

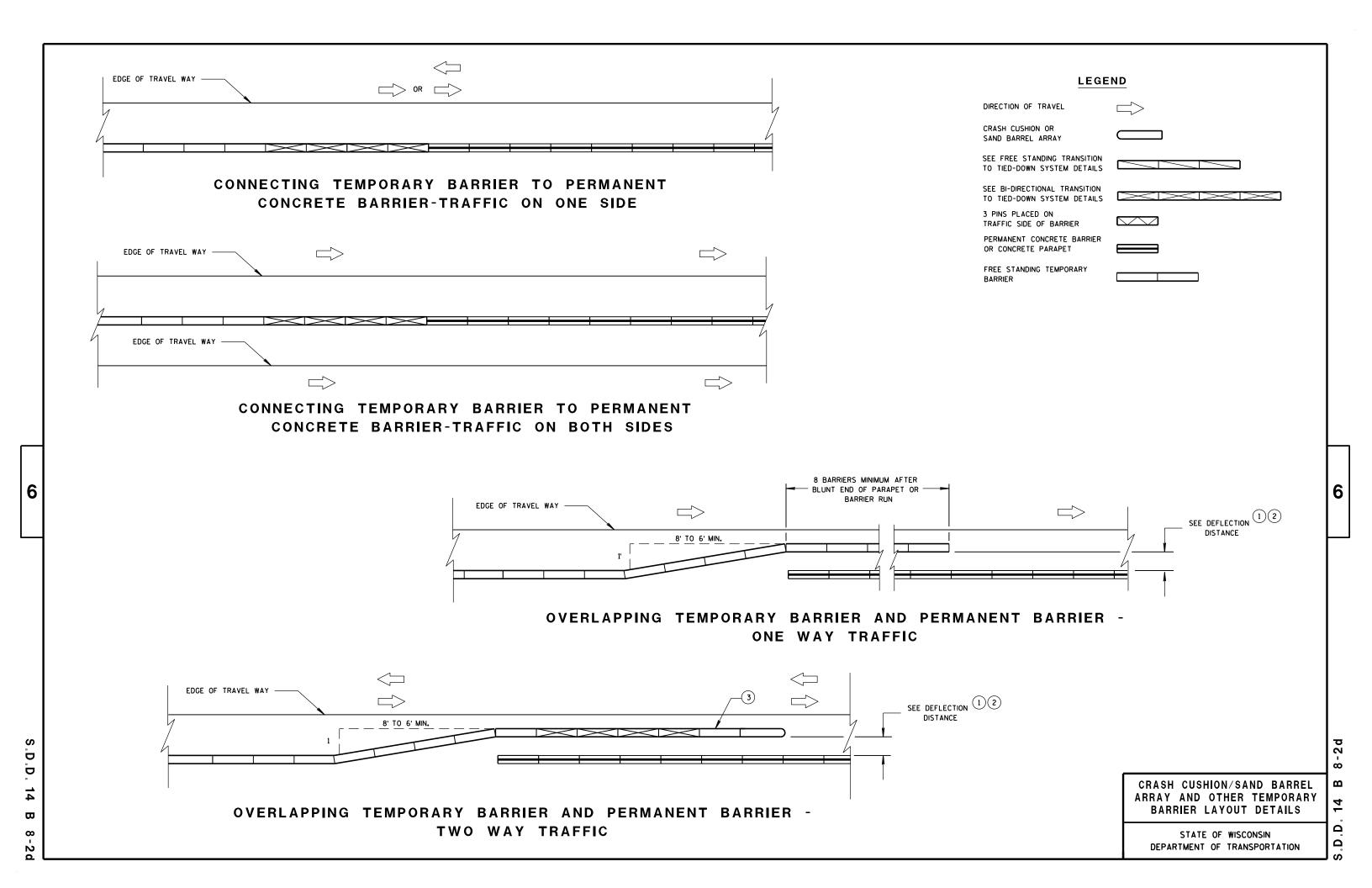
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

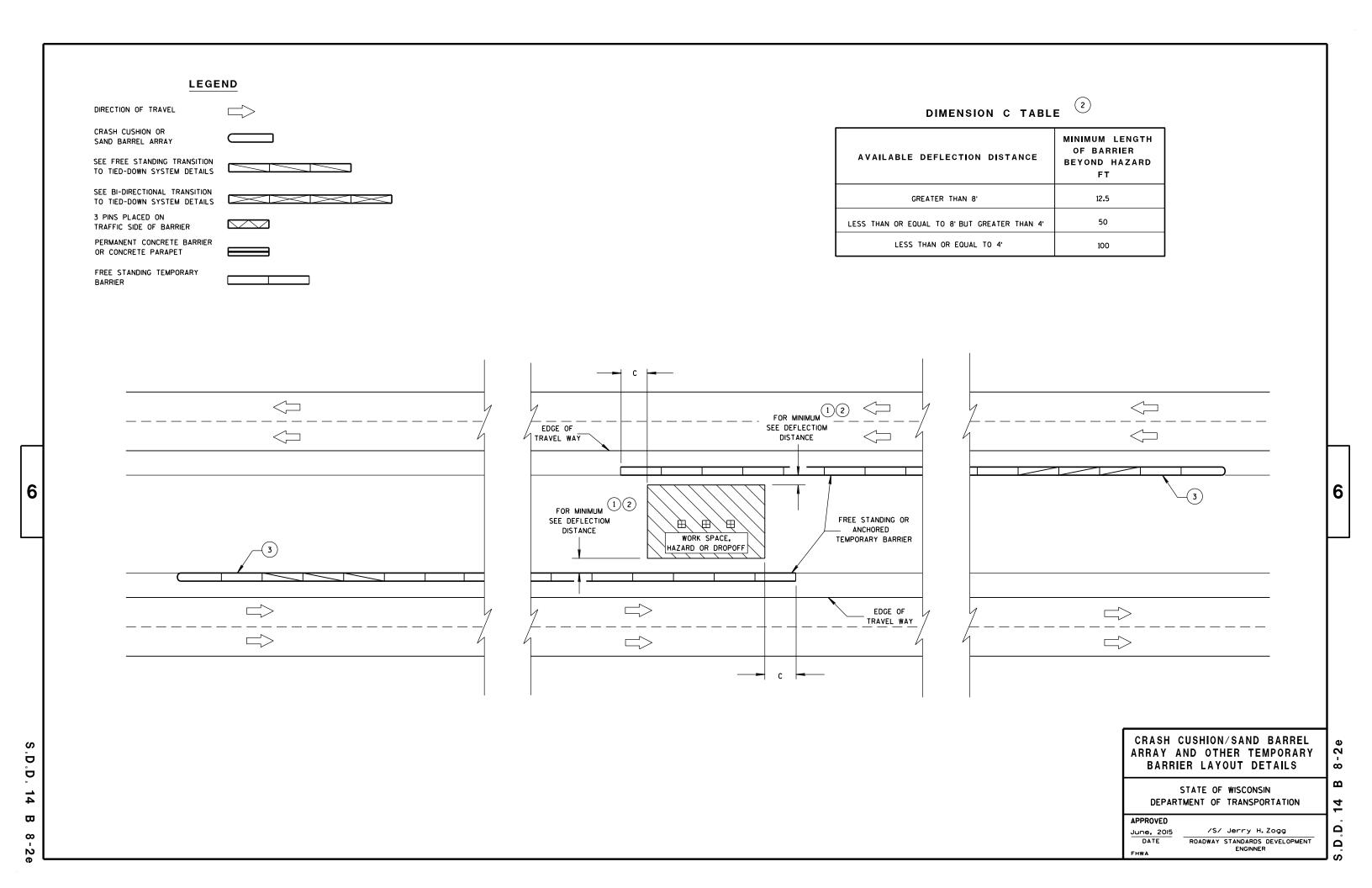
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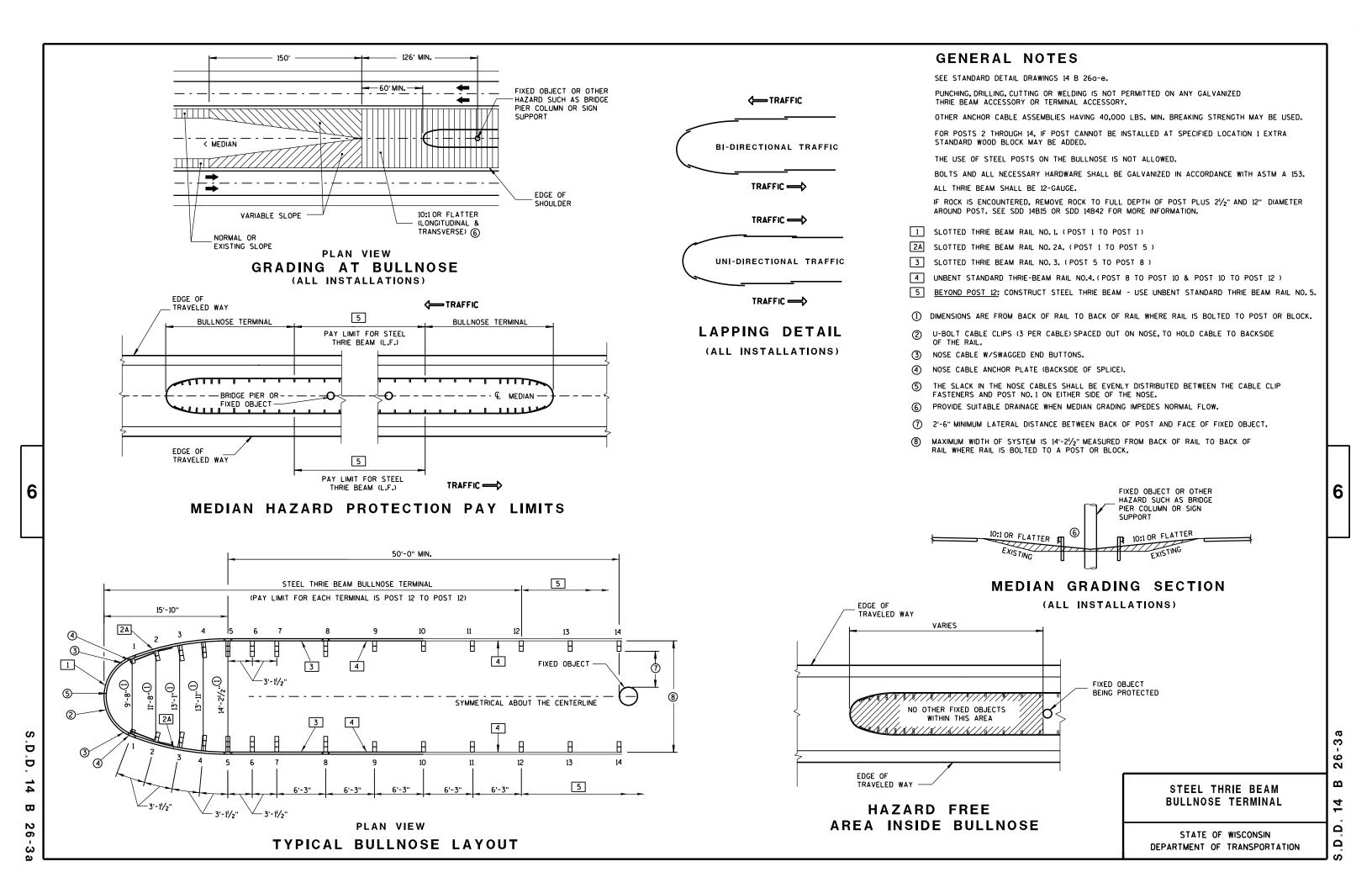
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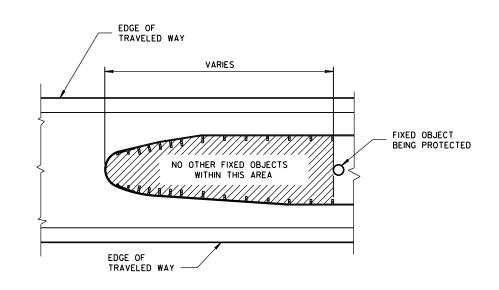










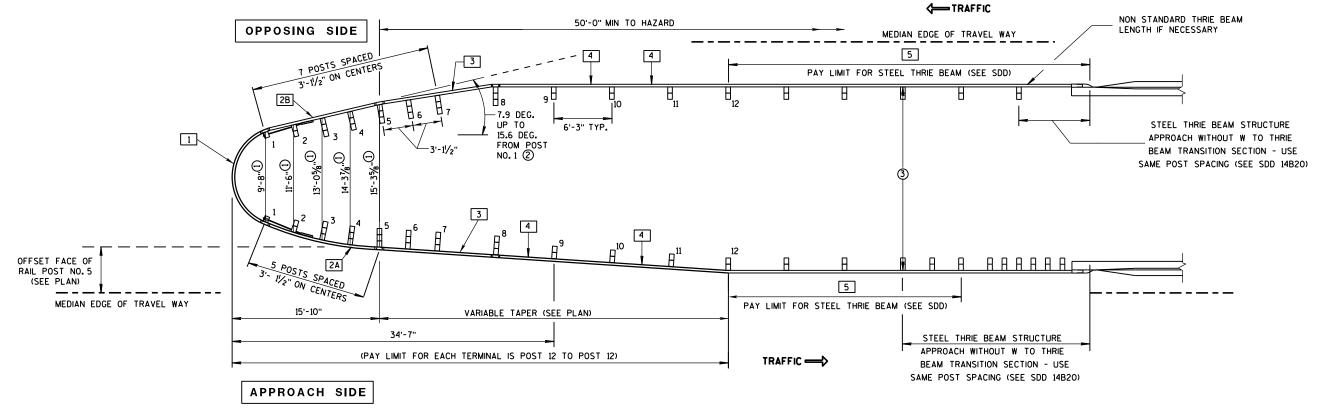


HAZARD FREE AREA INSIDE BULLNOSE

SEE STANDARD DETAIL DRAWINGS 14 B 26d-e.

FOR POSTS 2 THROUGH 14, IF POST CANNOT BE INSTALLED AT SPECIFIED LOCATION 1EXTRA STANDARD WOOD BLOCK MAY BE ADDED.

- 1 SLOTTED THRIE BEAM RAIL NO. 1. (POST 1 TO POST 1)
- 2A SLOTTED THRIE BEAM RAIL NO. 2A, (POST 1 TO POST 5)
- 2B SLOTTED THRIE BEAM RAIL NO. 2B. (POST 1 TO POST 5)
- 3 SLOTTED THRIE BEAM RAIL NO. 3. (POST 5 TO POST 8)
- 4 UNBENT STANDARD THRIE-BEAM RAIL NO. 4, (POST 8 TO POST 10 & POST 10 TO POST 12)
- BEYOND POST 12: CONSTRUCT STEEL THRIE BEAM USE UNBENT STANDARD THRIE BEAM RAIL NO. 5.
- ① DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO POST.
- TAPER BEGINNING AT POST NO.1 MUST CONTINUE TO POST NO.5. PAST POST NO.5 TAPER MAY END OR BE EXTENDED UP TO 15.6 DEGREES TO FIT VARIABLE MEDIAN WIDTHS. (SEE PLAN)
- FOR MEDIANS WIDER THAN 14'-21/2" MEASURED FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO A POST OR BLOCK.



PLAN VIEW

WIDENED BULLNOSE DESIGN

(INSTALLATION AT TWIN BRIDGES WITH BI-DIRECTIONAL TRAFFIC SHOWN)

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 14 B 26-3

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3.D.D. 14

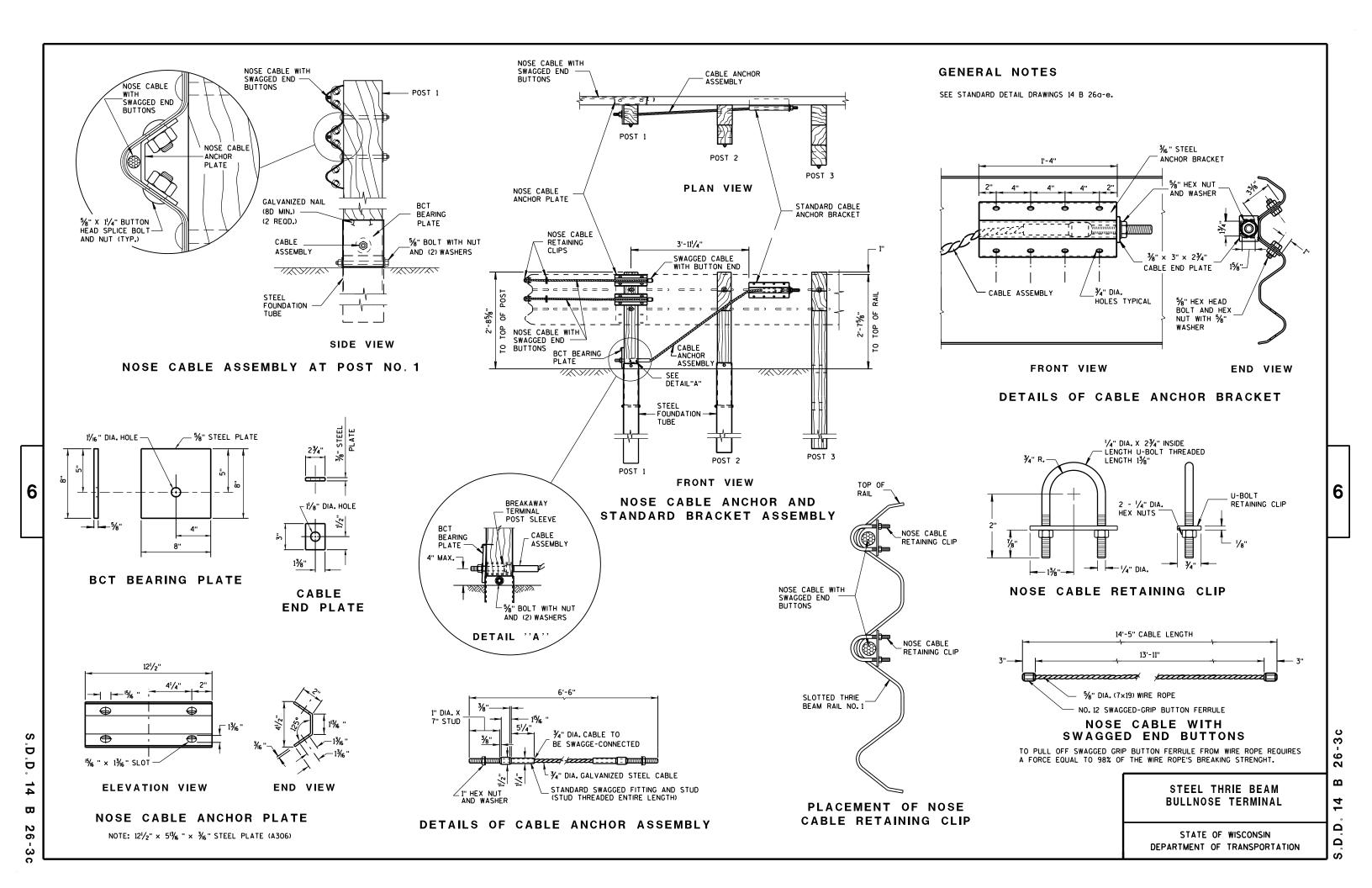
3 b

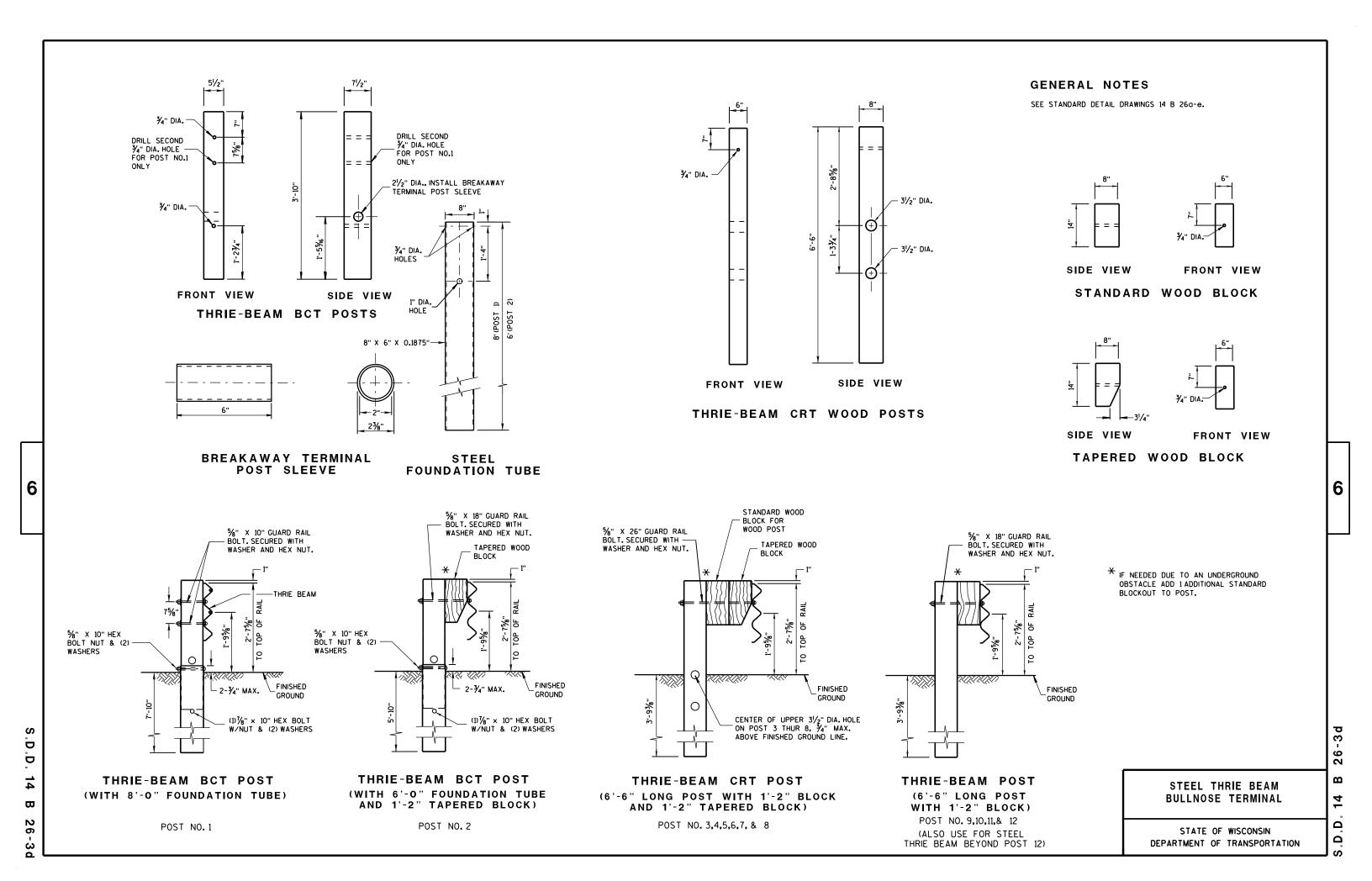
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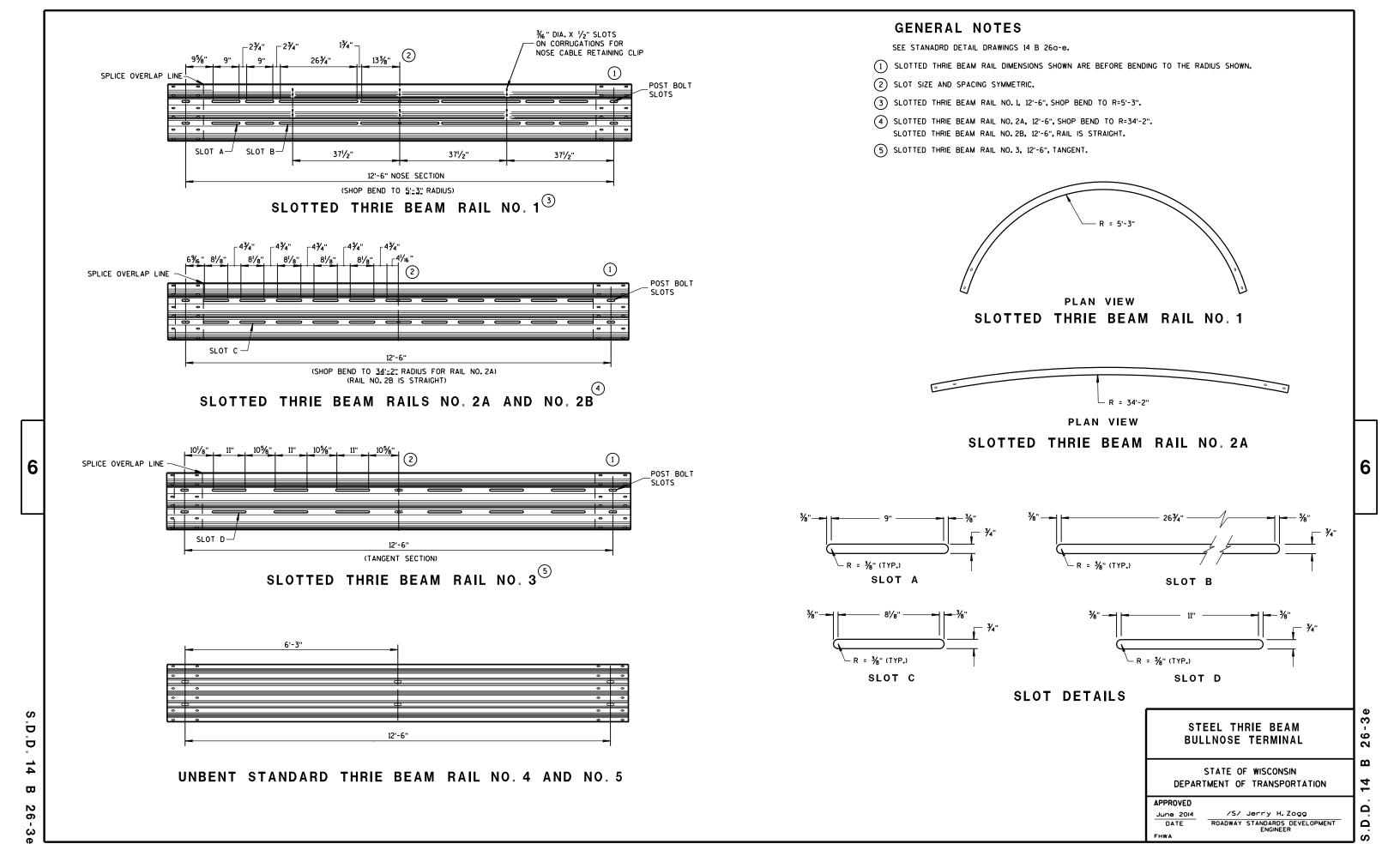
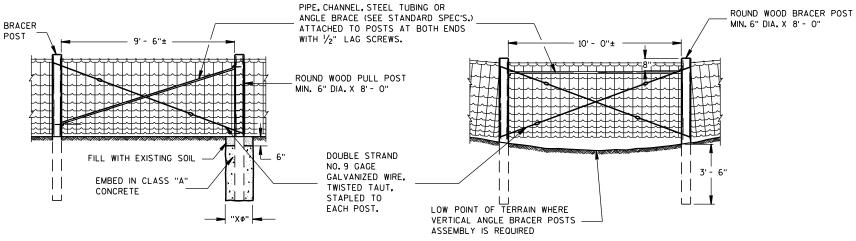




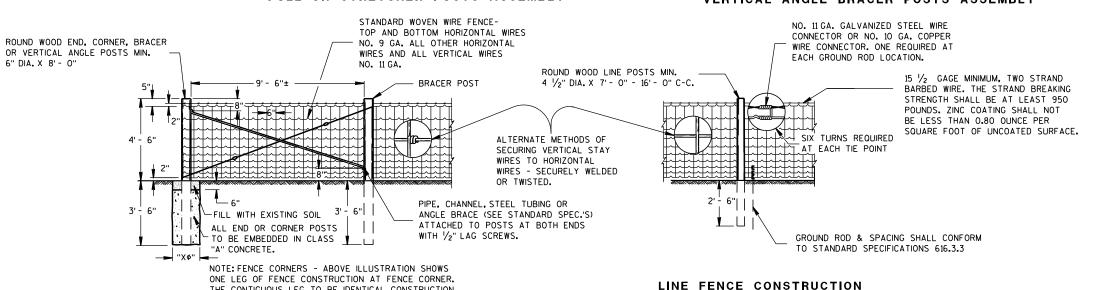


ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



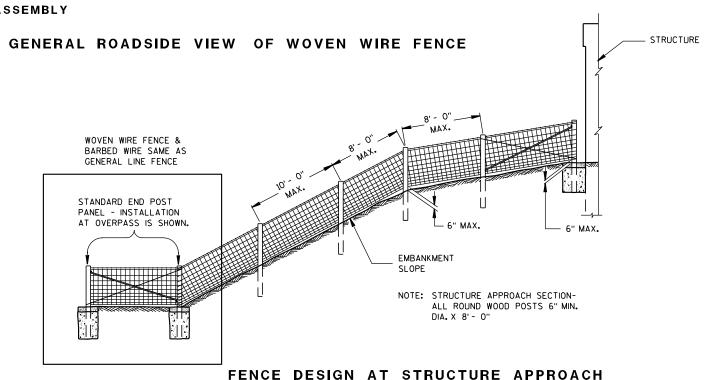
PULL OR STRETCHER POSTS ASSEMBLY

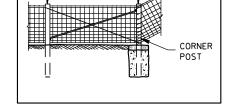
VERTICAL ANGLE BRACER POSTS ASSEMBLY



END OR CORNER POSTS ASSEMBLY

THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.





STANDARD END POST

PANEL - INSTALLATION AT UNDERPASS IS SHOWN.

ALTERNATE FENCE DESIGN AT STRUCTURE

GENERAL NOTES

"X ϕ " = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VER-TICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EX-PANSION AND CONTRACTION. STAPLE AR-RANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MAN-LIFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

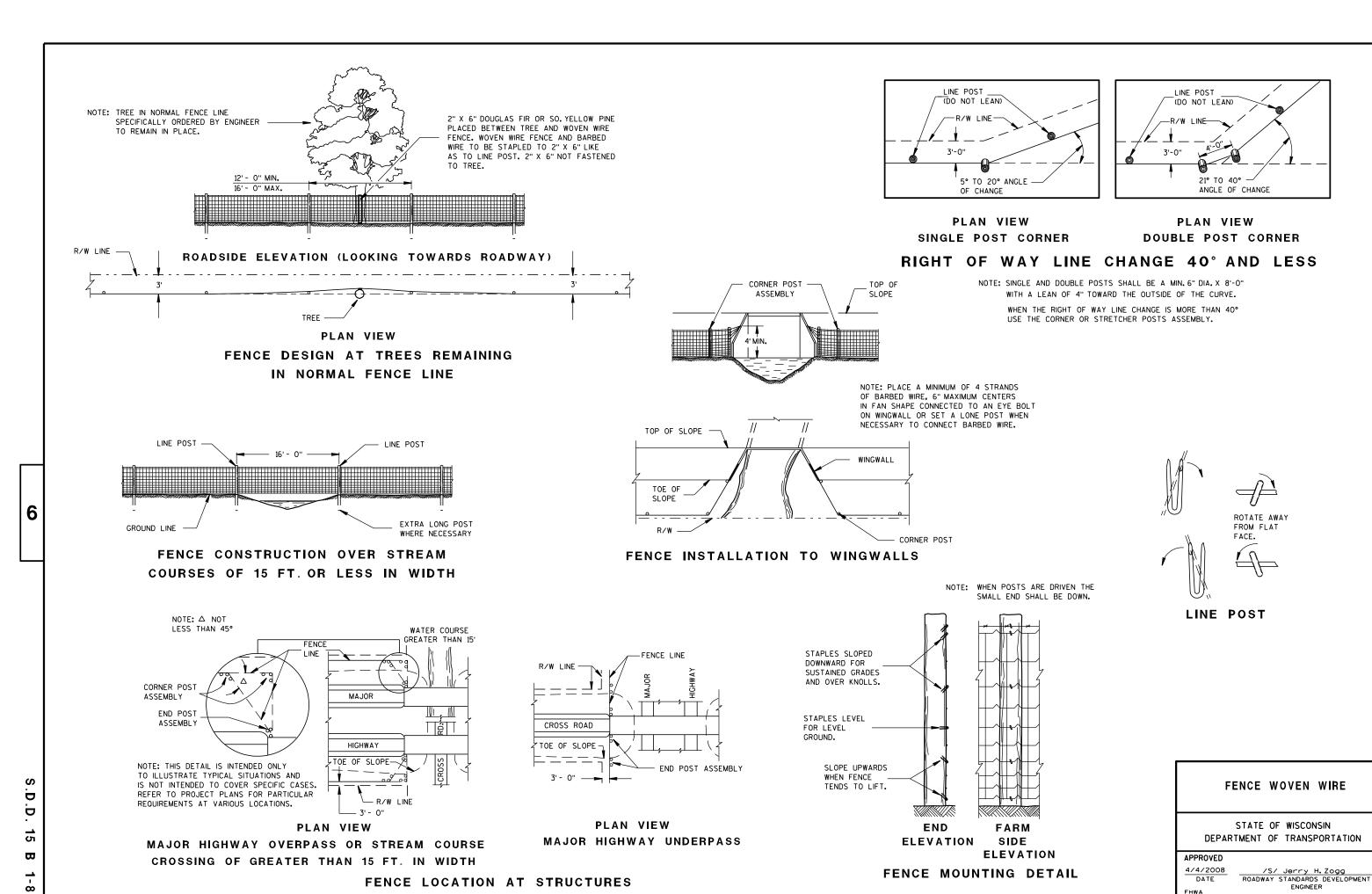
FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.

FENCE WOVEN WIRE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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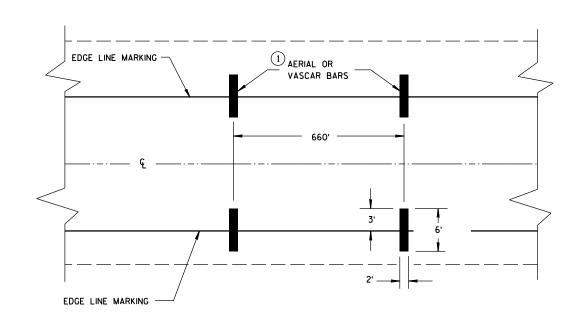


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A CAR CAN BE PROVIDED BY THE WISCONSIN STATE PATROL FOR TRAFFIC CONTROL.



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EDGE LINE MARKING

AERIAL OR
VASCAR BARS

6'

EDGE LINE MARKING

TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC

TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

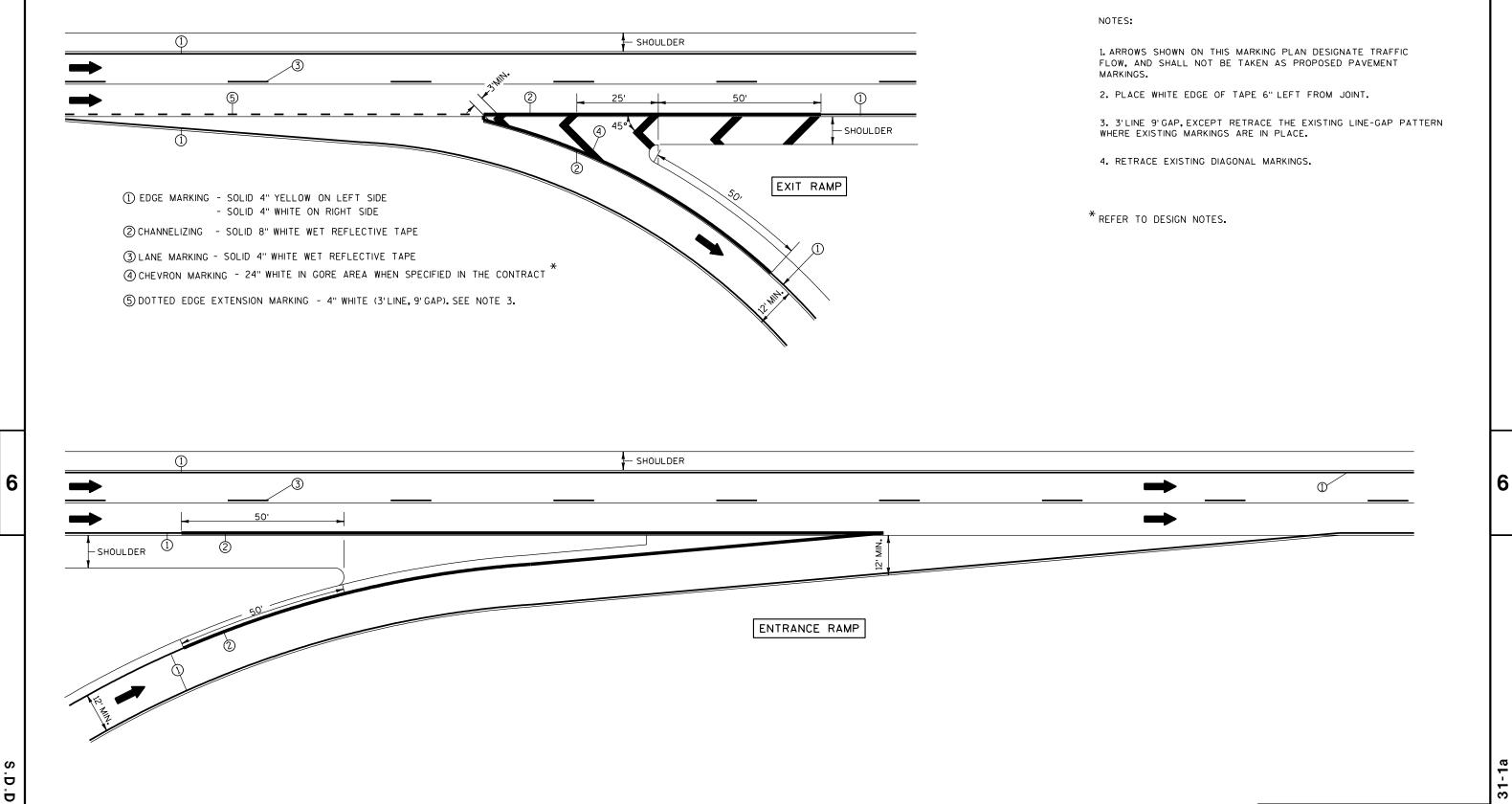
4/18/2016 /S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

S.D

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15

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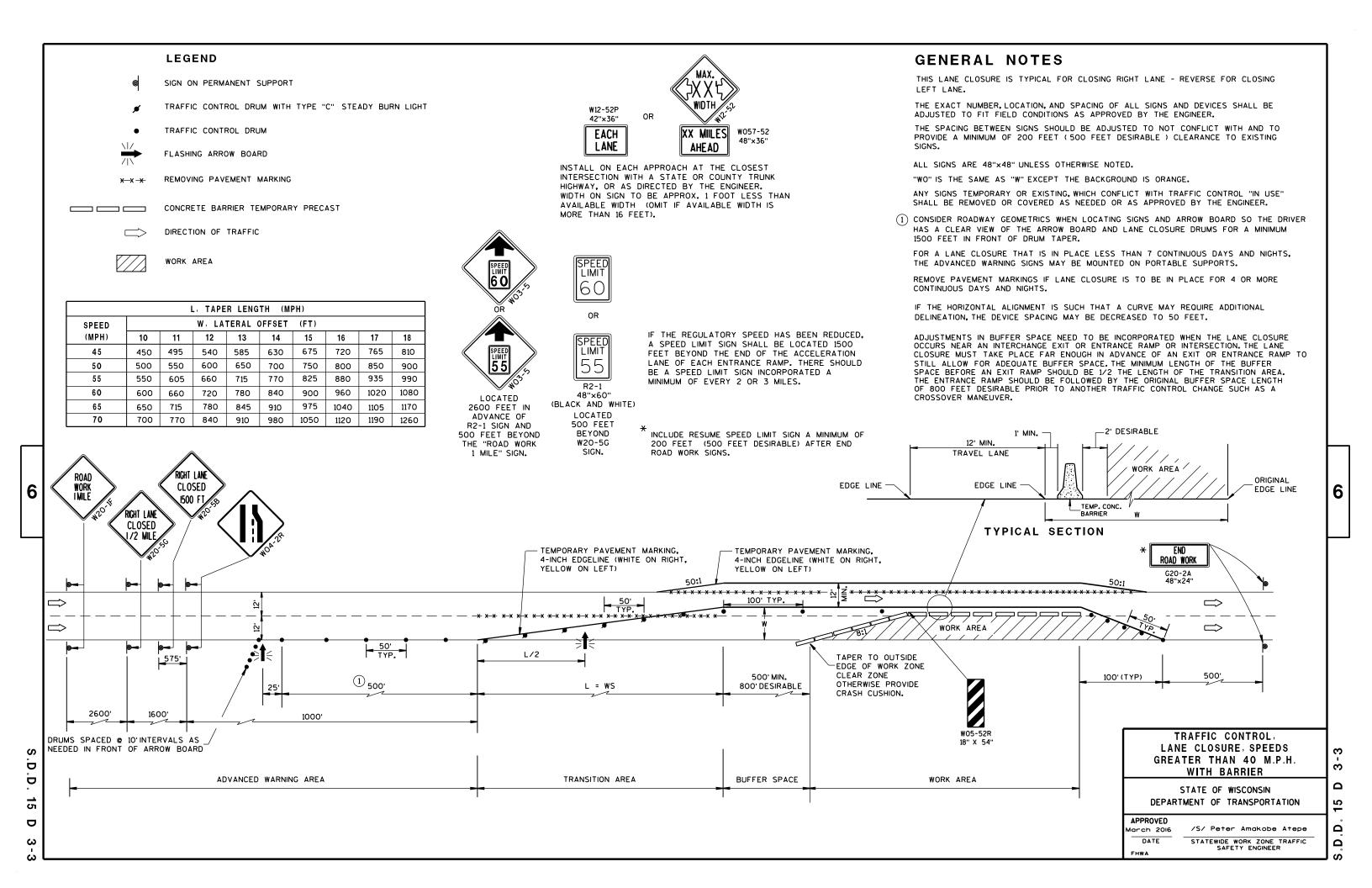


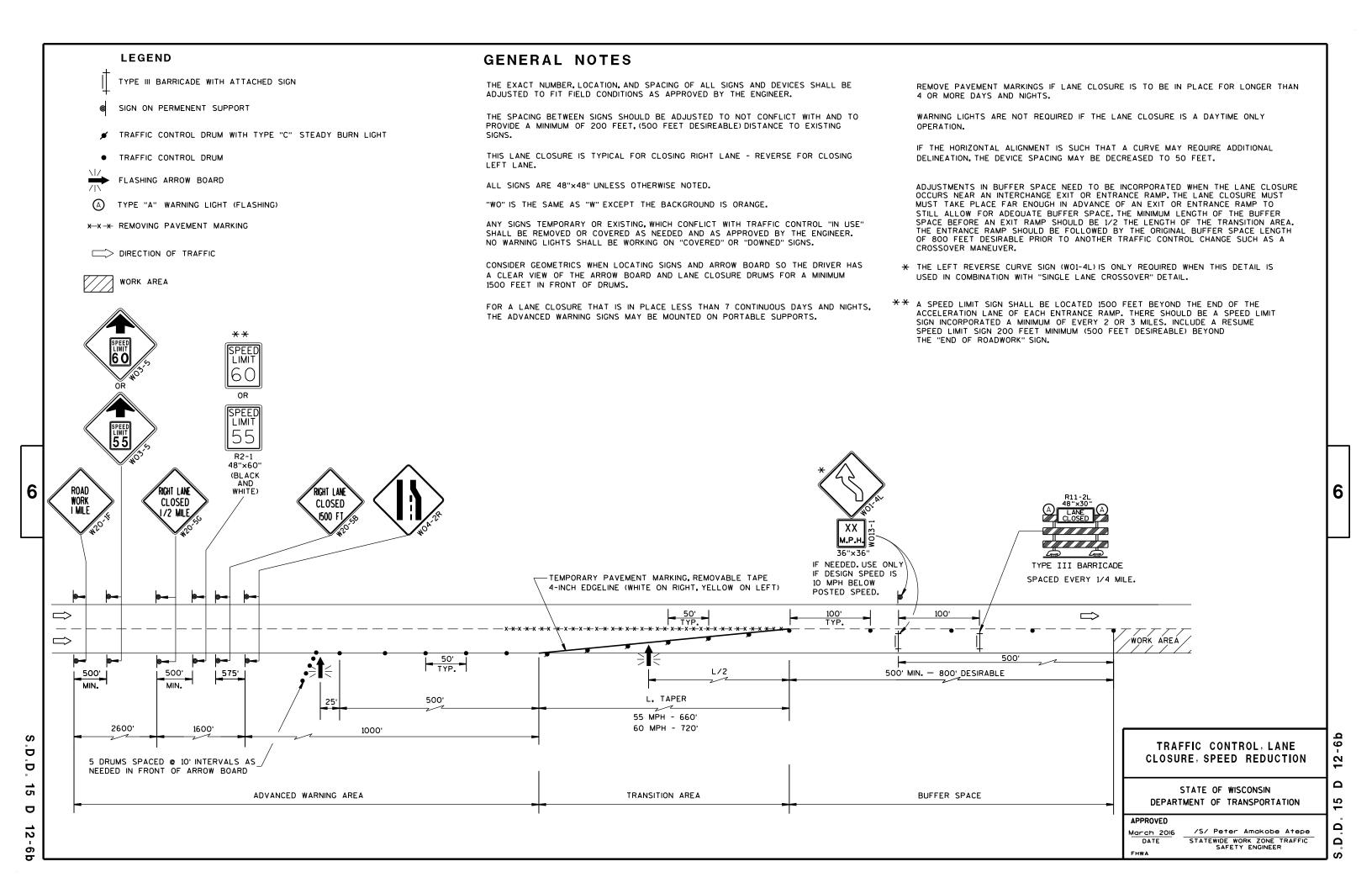
C

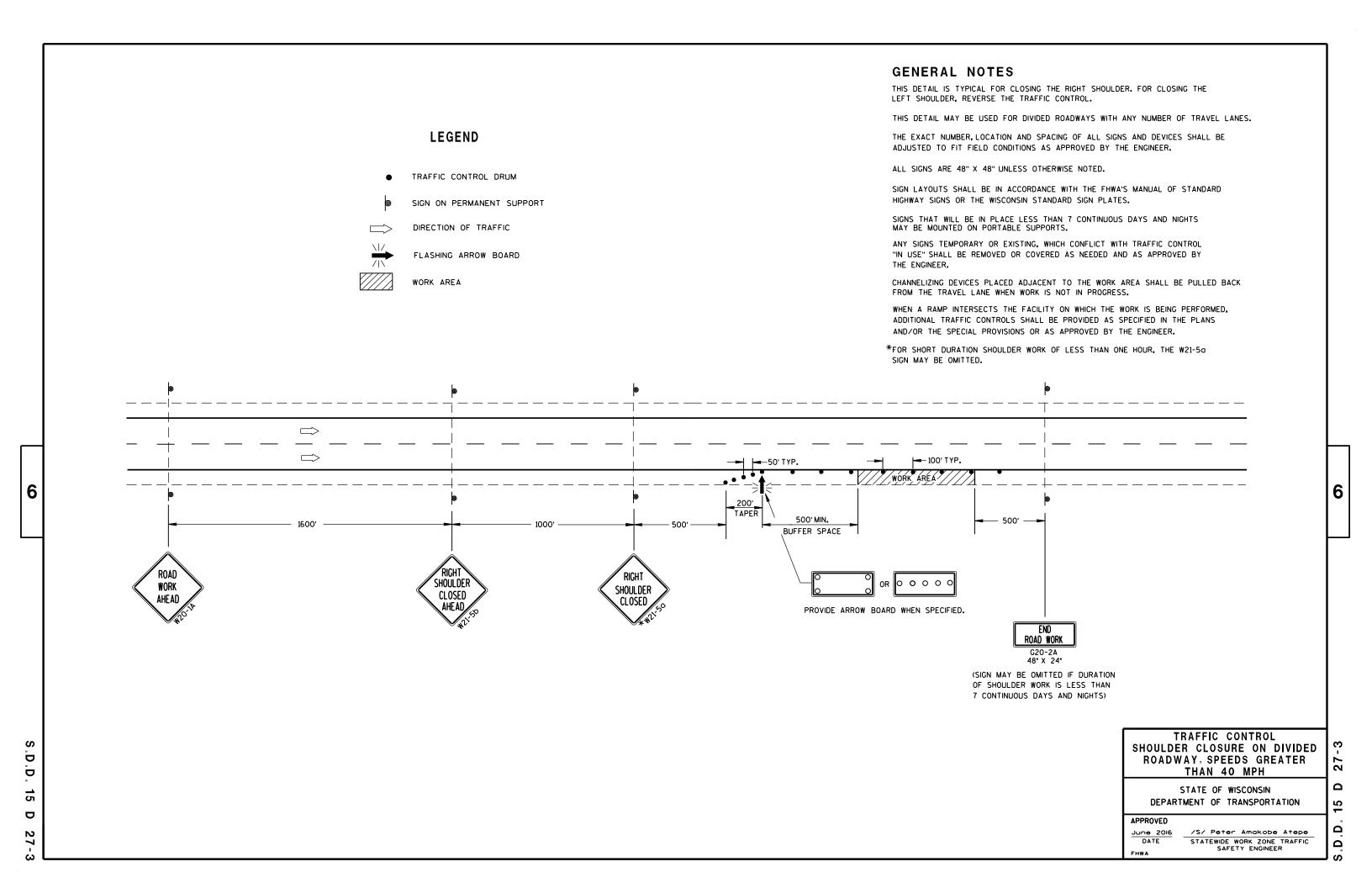
3.D.D. 15 C 31-1a

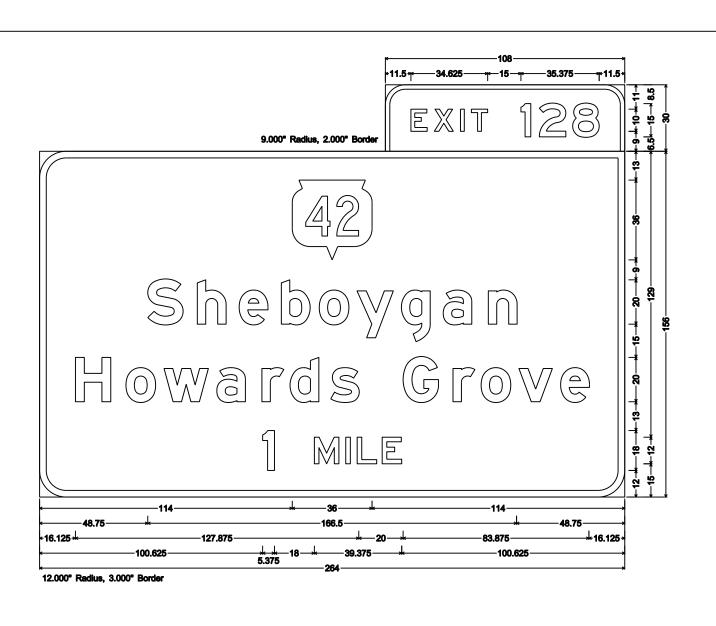
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

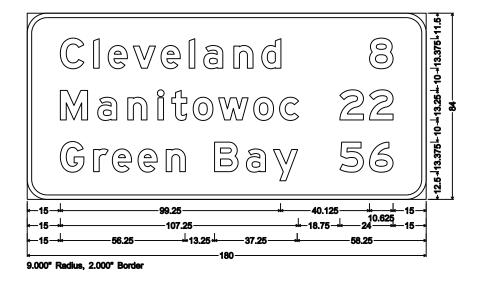
PAVEMENT MARKING (RAMPS AND GORES)











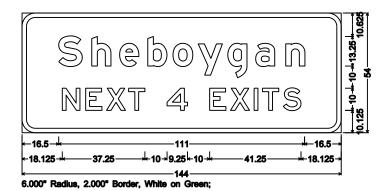
HWY: IH 43

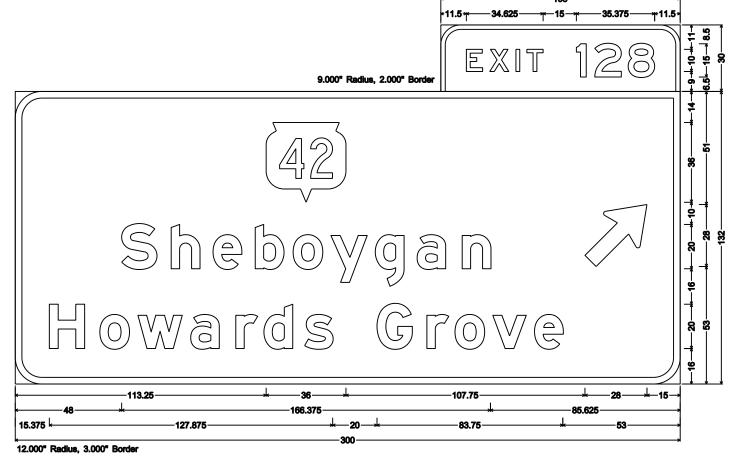
NOTES

- 1. All Signs are Type I Type SH Reflective
- 2. Color:

Background - Green Message - White

3. Message Series - E Modified except all cap Words are Series E





FILE NAME : C:\CAEfiles\Projects\tr_d3\3594AN16.DGN

PROJECT NO: 1225-08-71

PLOT DATE: 07-FEB-2017 10:23

COUNTY: SHEBOYGAN

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

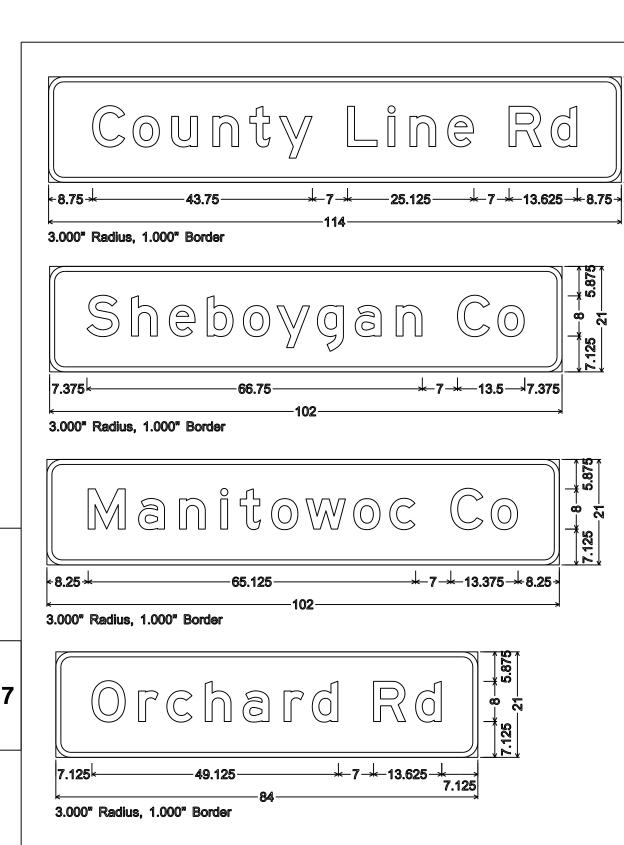
PERMANENT SIGNING

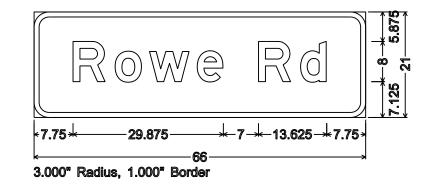
PLOT SCALE: 43.298378:1.000000

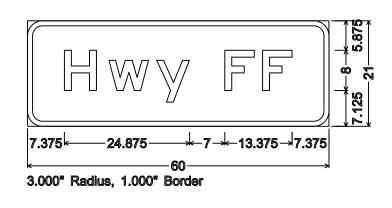
WISDOT/CADDS SHEET 42

SHEET NO:

Ε





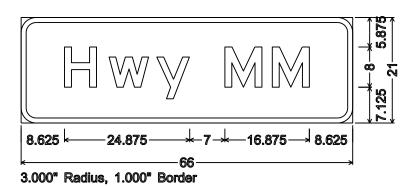


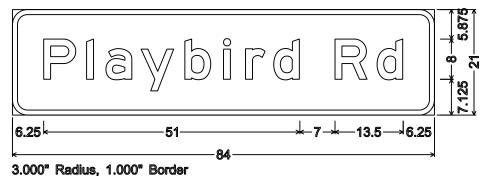


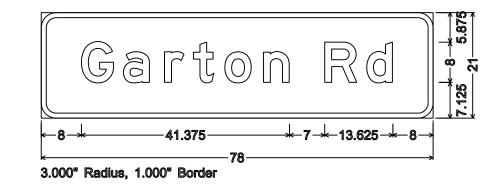
- 1. All Signs Type II Type H Reflective
- 2. Color:

Background - GREEN Message - WHITE

3. Message Series - E



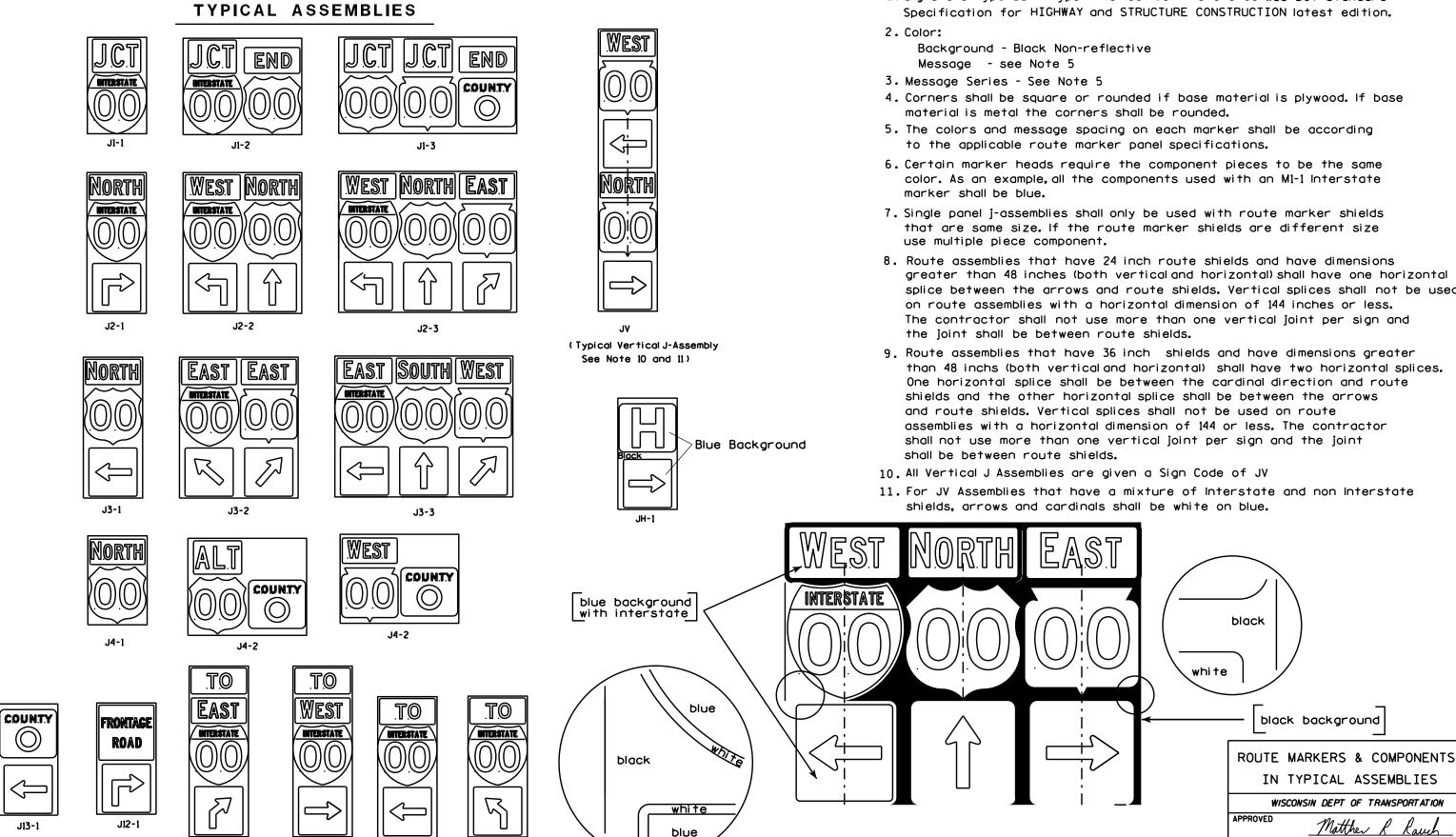




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1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater 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.



PROJECT NO:

J32-1

J22-1

J23-1

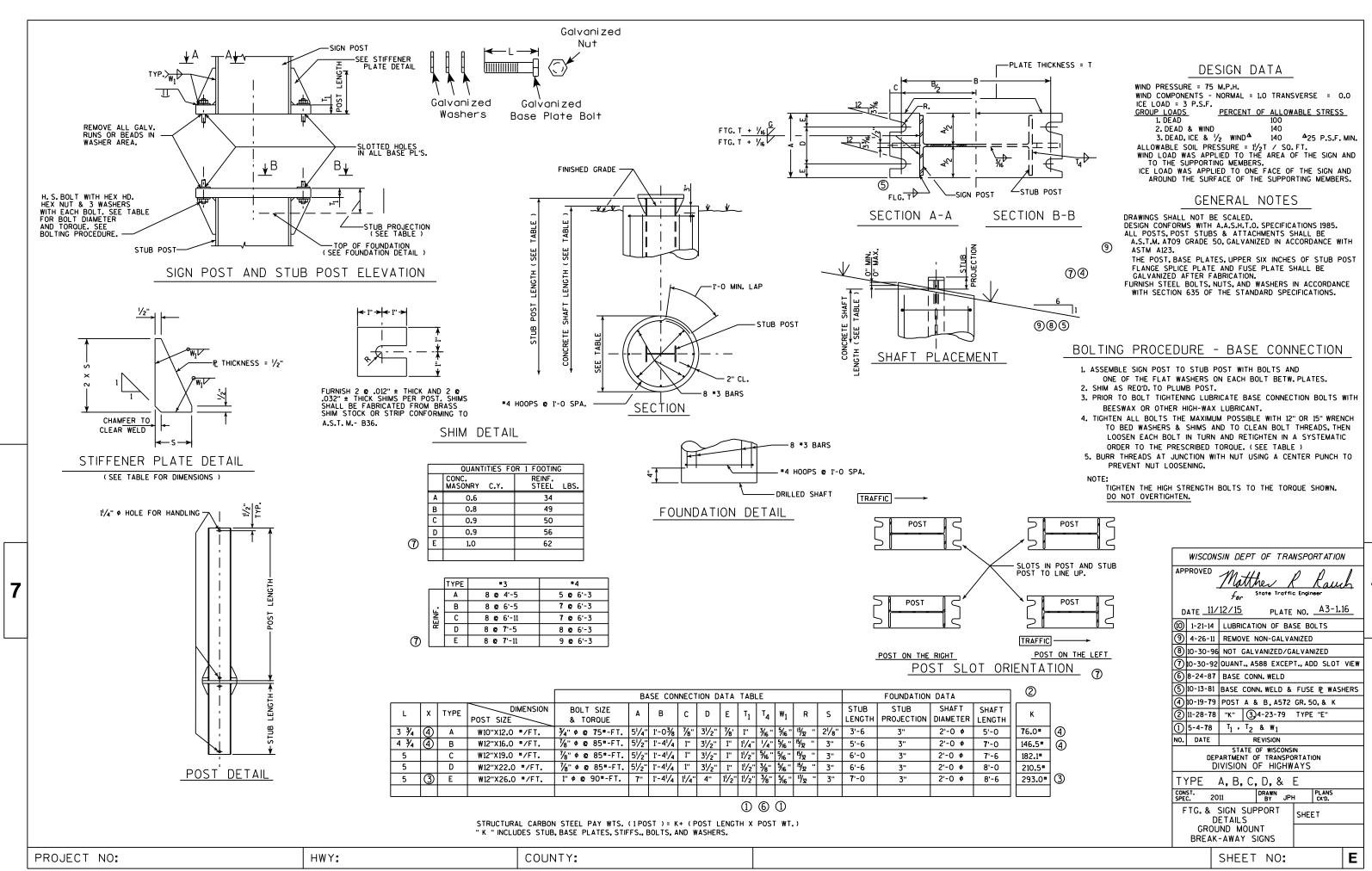
J33-1

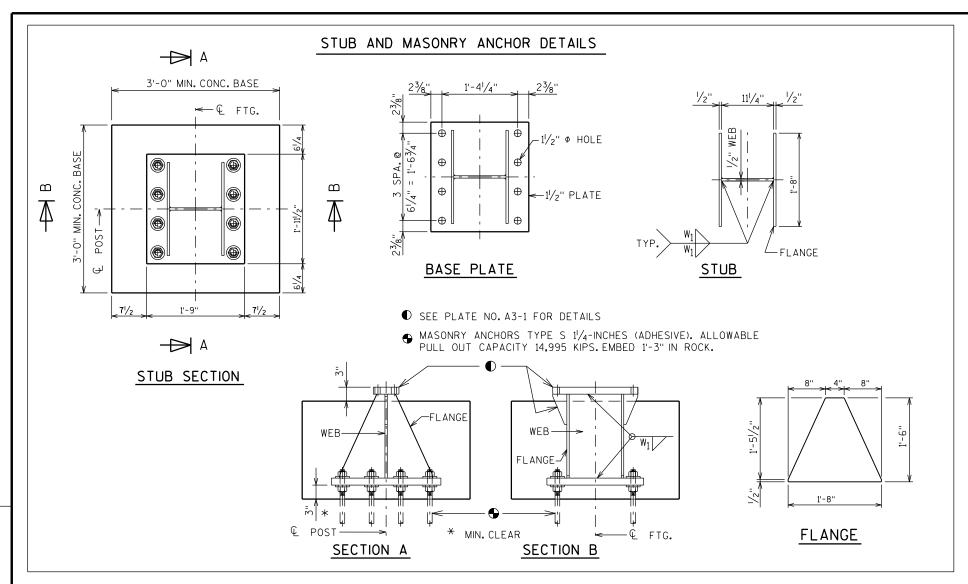
PLOT BY: mscsja

PLATE NO. __A2-15.8

DATE 2/06/14

SHEET NO:

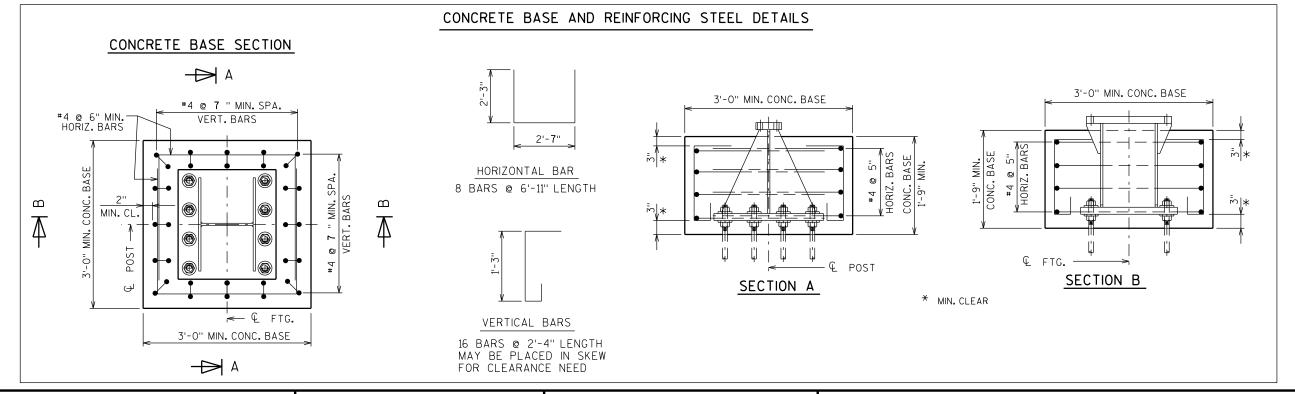




1. Quantities per Base:

PLOT NAME :

- 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.



COUNTY:

ALTERNATE BREAK-AWAY BASE ON ROCK A3-1M

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer DATE 2/06/2014 PLATE NO. A3-1M.1

SHEET NO:

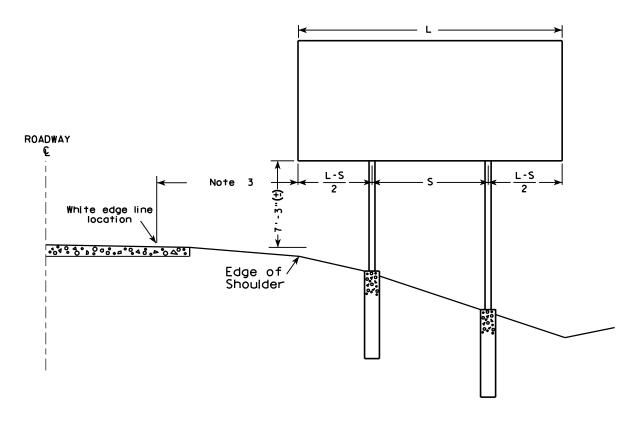
PLOT BY: mscj9h

PLOT DATE: 10-MAR-2014 15:16

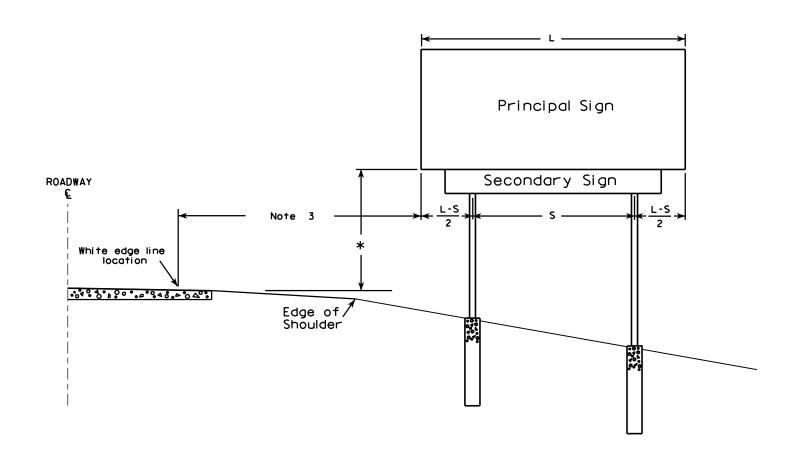
PLOT SCALE: 1.556674:1.000000

HWY:

PROJECT NO:



- 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 (\pm) 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"(\pm) 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"(\pm).

TYPICAL INSTALLATION
OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

For State Traffic Engineer

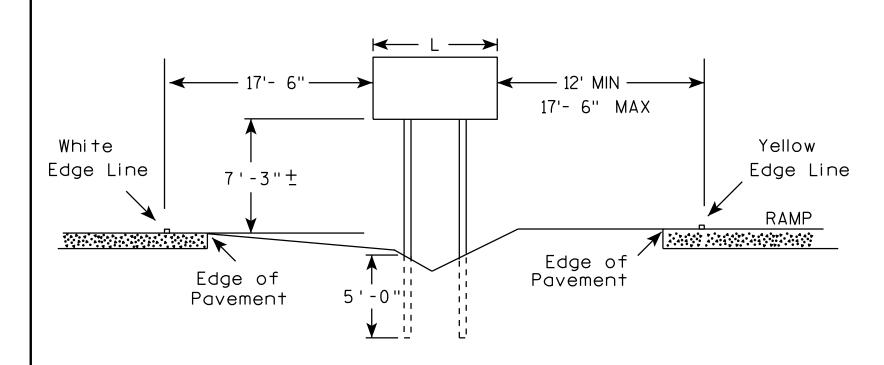
DATE 4/02/08 PLATE NO. A4-1.9

SHEET NO:

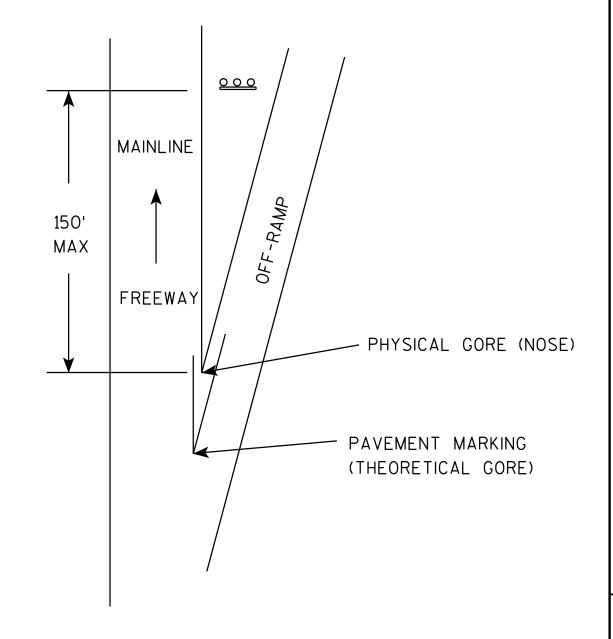
PLOT BY : ditjph

PLOT DATE: 02-APR-2008 15:49

PROJECT NO:



- 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 $(\overline{+})$ tolerance for the mounting height is 3 inches.



TYPICAL INSTALLATION OF TYPE II SIGNS ON WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

DATE 2/06/14

PLATE NO. 44-2.3

SHEET NO:

PROJECT NO:

PLOT DATE: 06-FEB-2014 12:36

PLOT BY: mscsja

URBAN ARFA



RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



5'-3"(生) D^{-1} Outside Edae of Gravel

White Edgeline Location

** 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.

HWY:

* 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.

PLOT BY : mscj9h

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 $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5' - 3'' (\pm)$.
- 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'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . 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'' (\pm).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

- 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. Minimum mounting height for J assemblies (A2-1S) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 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.

URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) ** Curb ********\ Flowline D **7000** White Edgeline D 11 White Edgeline, Location Outside Edae Location

2'Min - 4'Max (See Note 6) 6'-3"(±) Curb Flowline. -11

48" DIAMOND WARNING SIGN

HWY:

_ 26" 5 ' - 3 "(±) White Edgeline Location Outside Edge of Gravel 48" DIAMOND WARNING SIGN

COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E	
* * *	Greater than 48" Less than 60"	12"	
	60" to 120"	L/5	l

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)		
L	E	
Greater than 120" less than 168"	12"	

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)		
L	E	
168" and greater	12"	

POST EMBEDMENT DEPTH

of Gravel

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :

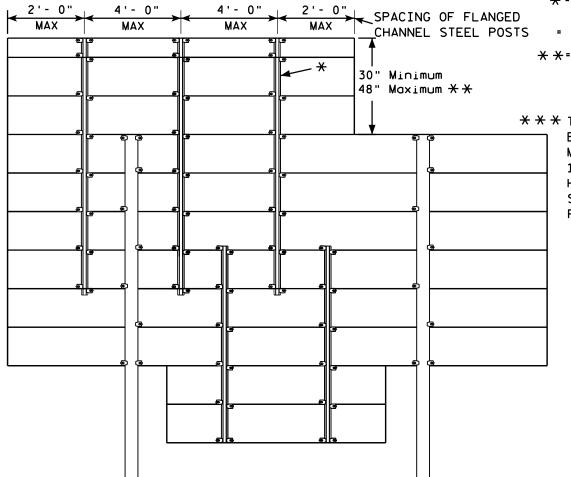
PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

PLATE NO. 44-4.14 DATE 7/23/15





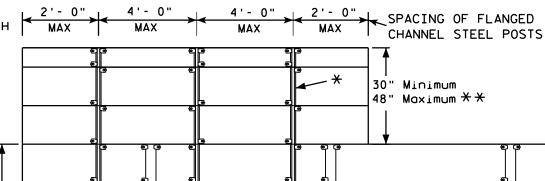
*=2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH

CHANNEL STEEL POSTS = 60,000 PSI (GRADE 60) GALVANIZED

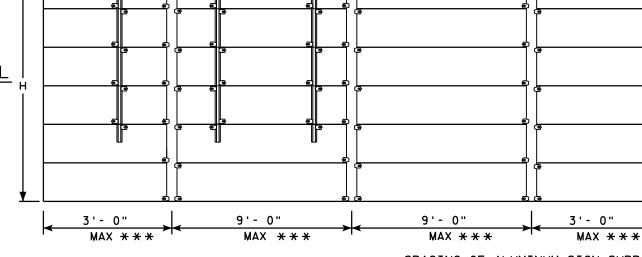
SIGN BRIDGE MOUNTED SIGN

* *= 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 1/₄ → NOT TO SCALE



SPACING OF ALUMINUM SIGN SUPPORTS 5" X 3.5" X 3.7 LBS./ft.

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.

2'- 0"

- 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.

PLOT BY: mscs.ja

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 12/05/13

PLATE NO. A4-6.12

SHEET NO:

PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A46.DGN



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

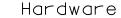
PLOT DATE . 11-416-2016 11:35

PINT RY * \$\$ nintuser \$\$

SHEET NO:

| | |





See Detail A STITCH BOLT, WASHER & NUT

See Detail A

Extruded Shape

←.125

Ы

→ | ← .125

6" Extrusion Minimum Weight 1.4 lb./ft.

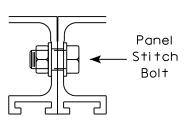
See Detail A

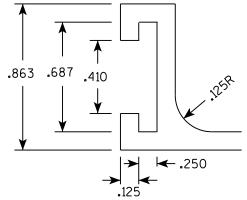
The hardware includes:

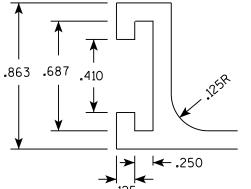
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy

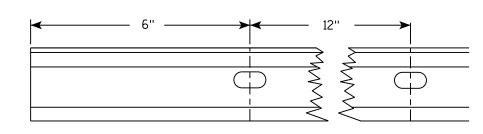
3/8 " - Stainless steel stop nut

3/8" X .064 Flat Washers, Alclad 2024-T4 alloy

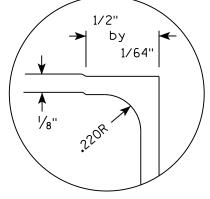








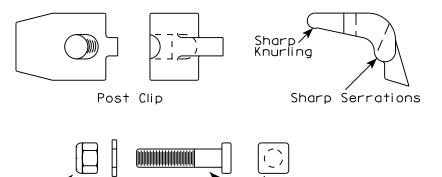
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.



DETAIL A (EDGE WRAP JOINT)

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.



Post Clip Bolt

NOTES

Flat Washer

Stop Nut

- 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 ioints shown in Detail A.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer
DATE 11/30/16 PLATE NO. A5-2.10

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A52.DGN

PROJECT NO:

12" Extrusion

Minimum Weight

2.5 lb./ft.

PLOT DATE: 30-NOV-2016 12:05

PLOT BY: \$\$...plotuser...\$\$

Ε

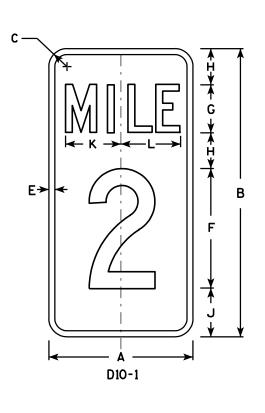
 Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

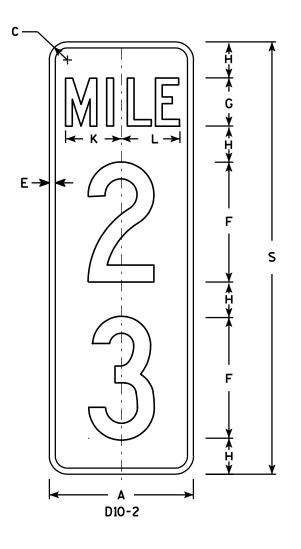
2. Color:

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.
- Optically adjust numerals about the centerline of the sign to achieve proper balance.





D10-3

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	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z
1																										
2																										
3																										
4	12	24	1 1/2		1/2	10	4	3	2 1/2	4	4 %	4 1/8							36	48						
5	12	24	1 1/2		1/2	10	4	3	2 1/2	4	4 %	4 1/8							36	48						
							•											•		_						

D10-1 D10-2 D10-3

Area Area Sq. ft. Sq. ft.

2.0 3.0 4.0

Area Area Area Area Area M2

19 .28 .38

STANDARD SIGN D10-1 , D10-2 & D10-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J Spane
for Director, Office of Traff.

DATE 1/16/02 PLATE NO. D10-3.2

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\D103.DGN

PROJECT NO:

PLOT DATE: 28-SEP-2005 08:20

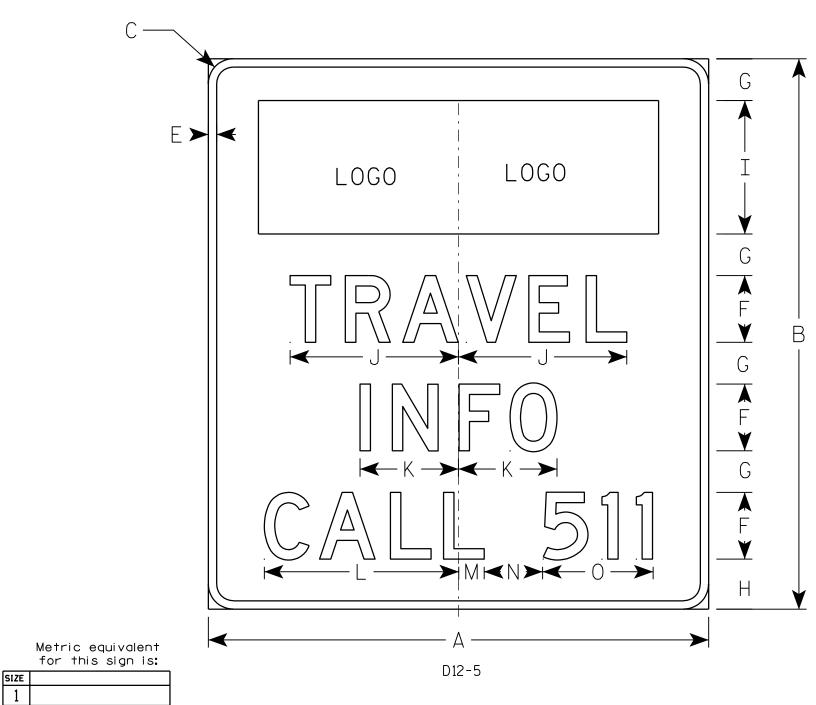
PLOT BY : DOTDZK



- 1. Sign is Type II Type SH 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.



PROJECT NO:

SIZE					
1					
Ω	1500	mm	Χ	1650	mm
3					
4					
5					

SIZE	A	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	60	66	2 1/4		1	8	5	6	16	20 1/4	11 1/8	23 ¾	3 1/8	7	13 1/4												27.5	2.48
3																												
4																												
5																												

STANDARD SIGN D12-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 12/5/08 PLATE NO. D12-5.2

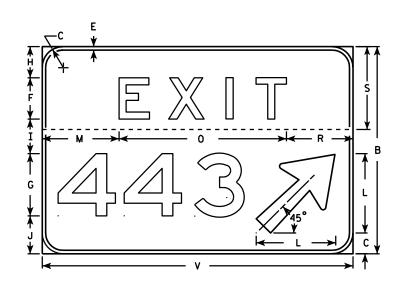
SHEET NO:

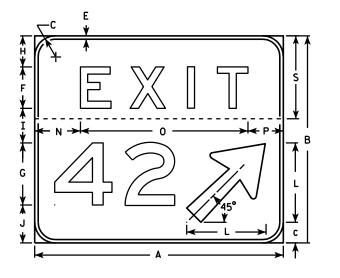
FILE NAME : C:\Users\Projects\tr_stdplate\D125.DGN

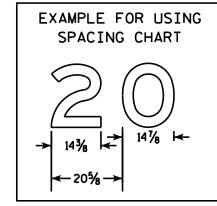
PLOT DATE: 05-DEC-2008 10:57

PLOT BY : ditjph

NOTE: T diminision shall be measured from the back of the number to the front of the arrow







NOTES

- 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	Α	В	С
0	14 1/8	21 %	21 %	21 1/4	20 ¾	21 1/4	21 1/4	21 %	19 %	22 1/8	21 5/8			
1	5 %	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 %	21 1/8	20 %	19 ¾	20 1/4	20 %	20 %	18 1/8	21 1/8	20 %			
3	14 3/8	20 ¾	21 1/8	20 ¾	20 1/4	19 ¾	20 ¾	20 ¾	19 3/8	21 1/8	20 ¾			
4	16 5/8	22 %	22	22 1/2	21 %	21 %	22 1/8	22 1/8	20 %	23 ¾	22 1/8			
5	14 1/4	20 %	20 %	20 1/8	18 3/4	18 ¾	20 %	20 %	18 3/8	20 %	20 %			
6	14 1/2	21 1/4	20 ¾	20 ¾	19 1/8	19 ½	20 3/8	20 ¾	19	20 ¾	20 ¾			
7	14 3/8	19 ¾	19 ¾	20 1/4	19 ¾	17	19 ¾	20 %	18 1/8	20 %	19 ¾			
8	14 1/4	21 1/2	21 1/2	20 %	19 1/4	19 ¾	20 %	21 1/2	19 %	21 1/2	20 %			
9	14 1/2	21 1/4	21 1/4	20 %	20	20 %	20 %	21 1/4	19 1/2	21 3/4	21 1/4			
Α	18	19 ¾	19 ¾	20 1/4	19 ¾	17	19 ¾	20 %	18 1/8	20 %	19 ¾	21 5/8	23 1/8	23
В	14 1/4	21 1/2	21 1/2	20 %	19 1/4	19 ¾	20 %	21 1/2	19 %	21 1/2	20 %	19 1/2	22 3/8	21 1/2
С	14 1/4	21 1/4	21 1/4	20 1/8	20	20 %	20 %	21 1/4	19 1/2	21 ¾	21 1/4	18 3/8	21	19 ¾

SIZE	Α	В	С	D	Ε	F	G	Н	ı	J	K	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	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 Bld Areo Sq. Ft.

30 37.5

STANDARD SIGN E5-1A

WISCONSIN DEPT OF TRANSPORTATION

Matther Rauch

For State Traffic Engineer

DATE 5/11/10 PLATE NO. E5-1A.12

SHEET NO:

HWY:

COUNTY:

PLOT DATE: 11-MAY-2010 15:32

PLOT NAME :

PLOT SCALE: 27.808870:1.000000

PROJECT NO:

E10-61

HWY:

NOTES

- 1. Sign is Type I Type SH Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Blue Message - White

- 3. Message Series E
- 4. Apply proper Exit Numbers and letters, optically adjust spacing to achieve proper balance.

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	L	М	N	0	Ρ	0	R	S	T	U	٧	W	Х	Υ	Z	Area sq. ft.
1																											
2																											
3																											
4	144	54	9		2	13 3/8	15	10	8	8 1/2	9 1/4	55 1/4	34 %	9 %	5	39											54
5	144	54	9		2	13 3/8	15	10	8	8 1/2	9 1/4	55 1/4	34 %	9 %	5 3/8	39											54

COUNTY:

TYPICAL SIGNS E10-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 9/24/15 PLATE NO. E10-61.3

SHEET NO:

FILE NAME + C+\CAFfiles\Projects\tr stdplote\F1061 DGN

PROJECT NO:

PLOT DATE • 01-DEC-2015 17-49

PINT RY . \$\$ plotuser \$\$ PINT NAMF :

PLOT SCALE . 24 284107.1 000000

E → SPONSOR A F Y G Z F Z A F X A

HWY:

Background Colors of Symbol*

₽ 4

* VARIES

White Black Green Orange

 * $\!\!\!/_4$ " Black Border between each color of rainbow and border of rainbow

I 2 36 | 1 1/2 | 1/2 5/8 3 1/2 2 7/8 | 2 1/8 | 11 1/4 | 11 1/8 | 9 3/8 | 1 1/4 3/4 12 % 7 1/2 30 7.5 3 4 5

COUNTY:

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 (See Note 6)
- 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. Border Blue

Line 1 - Red

Line 2 - Black

Line 3-5 - Blue

6. Line 1 - Dutch 8011L

Line 2 - Series E

Line 3-5 - Series C

7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

> STANDARD SIGN I55-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED for State Traffic Engineer

DATE 4/27/11 PLATE NO. 155-56.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\I5556.DGN

PROJECT NO:

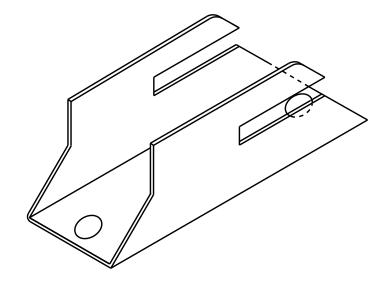
PLOT DATE: 27-APR-2011 10:05

PLOT BY: mscj9h

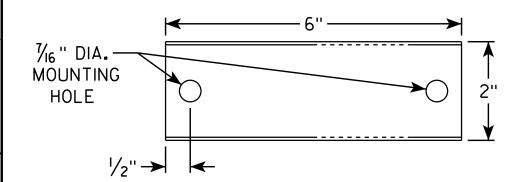
PLOT NAME :

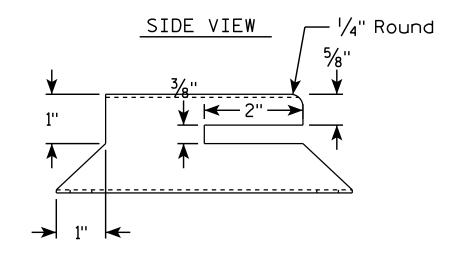
PLOT SCALE: 7.945391:1.000000

ISOMETRIC VIEW



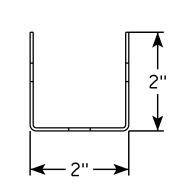
TOP VIEW





HWY:

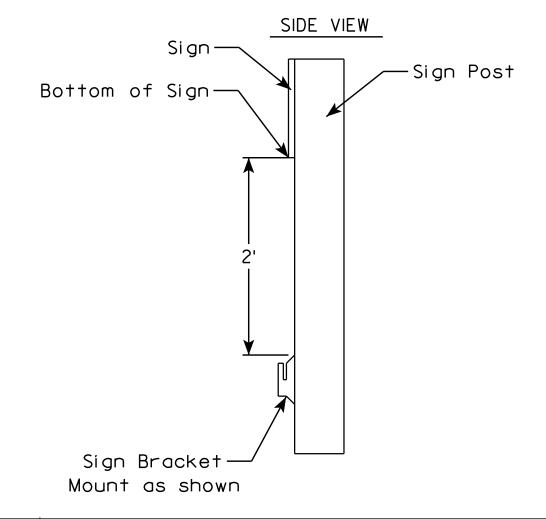
END VIEW



COUNTY:

NOTES

- Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
- 2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
- 3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
- 4. Shall have rounded edges with at least $\frac{1}{8}$ " radii.
- 5. Shall not have unrounded and uncoated metaledges which can contact the back surface of the roll-up sign.
- 6. Top of bracket shall be mounted 2' below the bottom of the 155-56 sign.
- 7. Cost of bracket and fastening hardware shall be incidental to the 155-56 sign.



SHEET NO:

PROJECT NO:

PLOT BY : mscj9h

DATE 4/26/16

PLATE NO.155-56B.2

ROLLUP SIGN BRACKET

155-56B

WISCONSIN DEPT OF TRANSPORTATION

- 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

7

Metric equivalent for these signs are:

M1-1

HWY:

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

	1 300	1111111	X 900	J 111111	1 2 1	300 1	11111 X I	123 11111	<u>'</u>																	M1 - 1	W1-1A	M1 - 1	W1-1A
SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Area sq. ft.	Area sq. ft.	Area m2	Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 ½	15	24	17	7 1/8								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 ½	11 3/4								45			7.03	8.79	. 81	1.05

COUNTY:

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew A

 f_{or} State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\M11.DGN

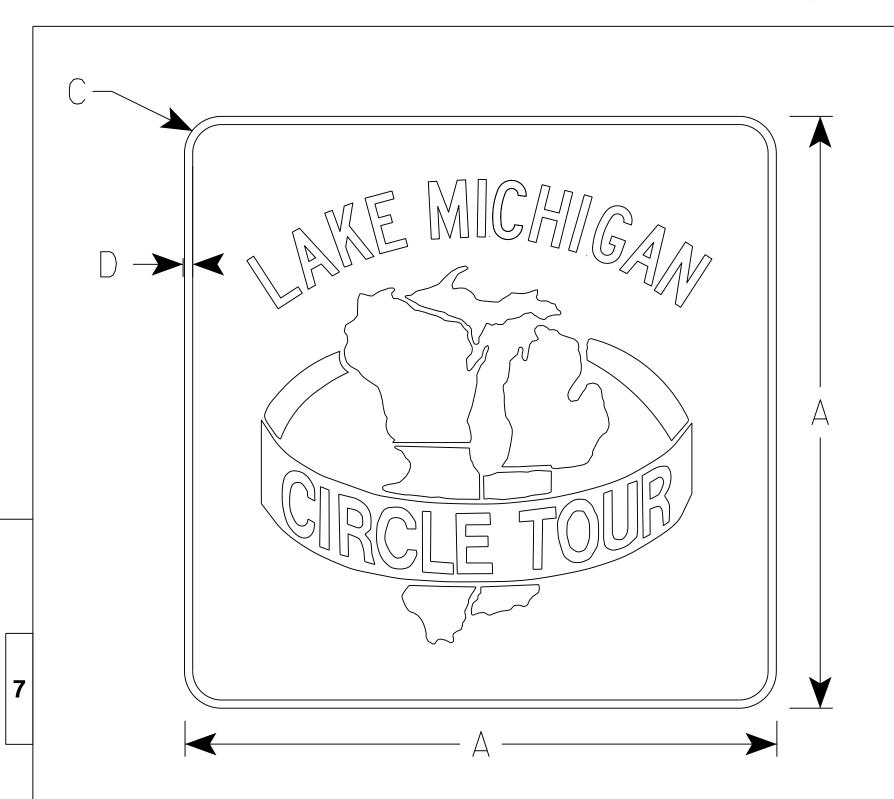
PROJECT NO:

PLOT DATE: 13-0CT-2005 14:49

M1-1A

PLOT BY : DITJPH PLOT NAME :

PLOT SCALE: 7.947778:1.000000



HWY:

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	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1 1																												
2	24			1 1/8	1/2																						4.0	.36
3																												
4	36			1 5/ ₈	3/4																						9.0	.81
5																												

COUNTY:

STANDARD SIGN M1 - 93

WISCONSIN DEPT OF TRANSPORTATION

DATE 11/5/15 PLATE NO. M1-93.2

SHEET NO:

Ε

PROJECT NO:







MP3-1









HWY:



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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	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 1/8	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

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

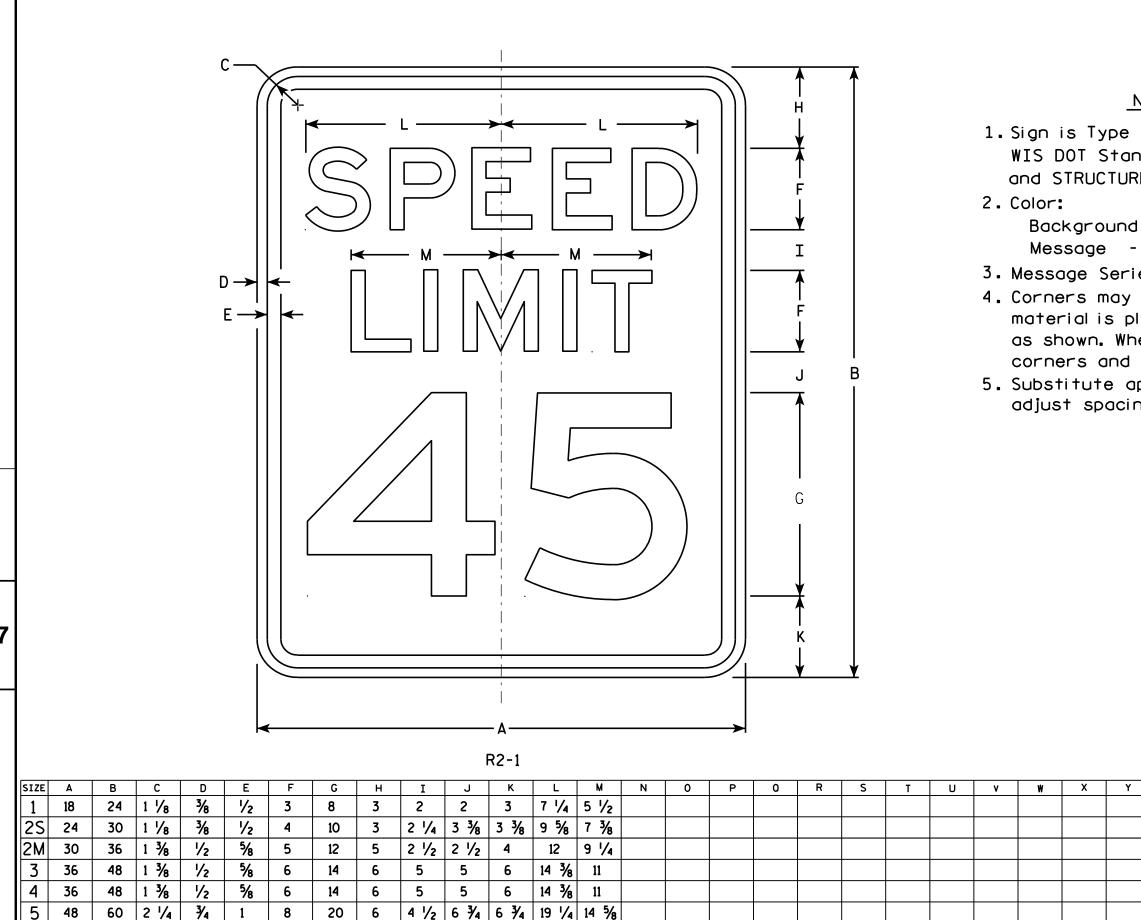
FILE NAME · C·\CAFfiles\Projects\tr stdnlote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000



COUNTY:

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal. the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Raus

For State Traffic Engineer DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN

PROJECT NO:

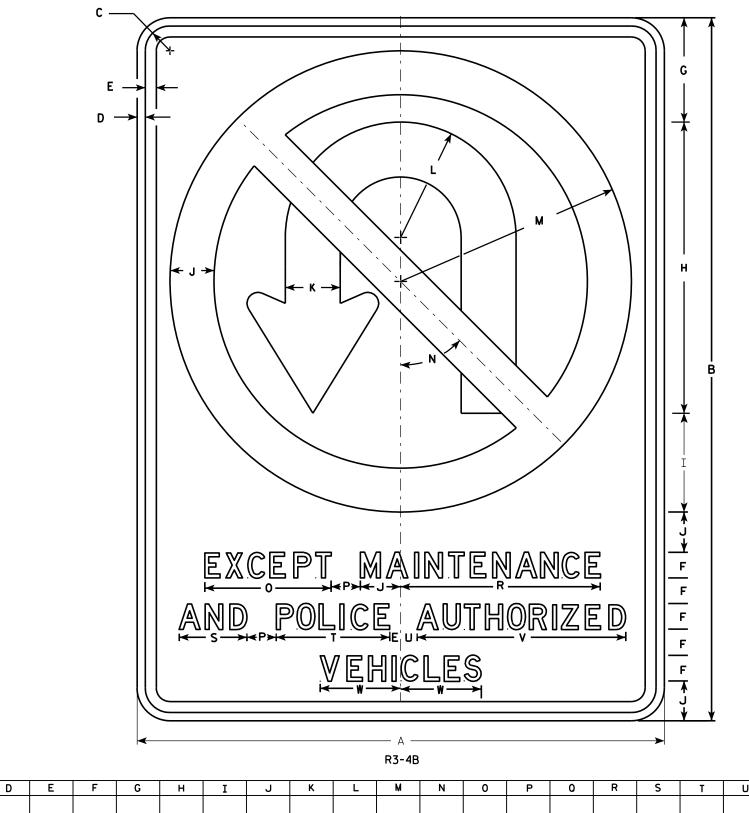
HWY:

PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

PLOT NAME :

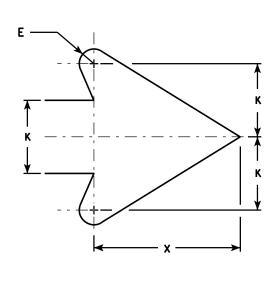
PLOT SCALE: 4.717577:1.000000



- 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 25 2M 3 4 1 1/8 3/4 | 1 3/4 | 7 1/8 | 19 1/8 | 6 3/4 | 2 3/4 | 3 3/4 | 7 1/8 | 15 3/4 | 45° | 8 5/8 | 2 13 \\ 4 \\ 8 \ 7 \\ 4 \ 1 \\ 8 \ 14 \\ 4 \ 5 \\ 2 \ 7 \\ 8 36 12.0 3/4 | 1 3/4 | 7 1/8 | 19 1/8 | 6 3/4 | 2 3/4 | 3 3/4 | 7 1/8 | 15 3/4 | 45° | 8 5/8 | 5 36 13 \\ 4 \\ 8 | 7 \\ 34 | 1 \\ 8 | 14 \\ 4 | 5 \\ 2 | 7 \\ 8 12.0 48

COUNTY:

STANDARD SIGN R3-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/17/2011

PLATE NO. R3-4B.2
SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R34B.DGN

PROJECT NO:

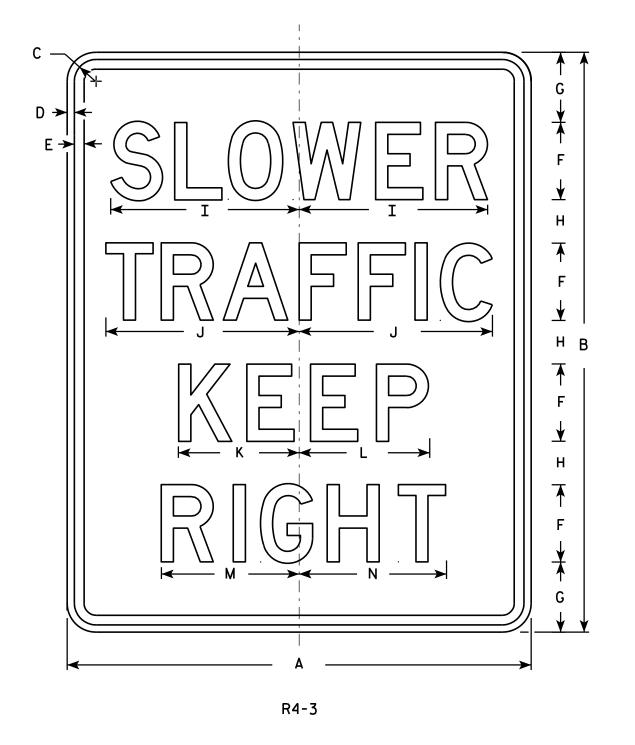
HWY:

PLOT DATE: 17-MAR-2011 14:27

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 6.554949:1.000000



- 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 В С G 2S 24 3/8 10 6 1/4 6 3/4 7 1/8 7 5/8 30 | 1 1/8 1/2 | 3 % | 2 1/4 | 9 ¾ | 5.0 3 % 2 1/4 9 3/4 10 6 1/4 6 3/4 7 1/8 7 5/8 1/2 5.0 24 30 | 1 1/8 48 1 1 1 1 1 1 1 1 1 1 1 1 1 5/8 3/4 15 9 3/8 14 % 10 10 3/4 11 3/8 12.0 36 10 3/4 11 3/8 3/4 15 9 % 10 36 1 % 12.0 48 5 7 1/4 4 1/2 19 1/2 20 12 1/2 13 1/2 14 1/4 15 1/4 48 60 2 1/4 20.0

STANDARD SIGN R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R43.DGN

PROJECT NO:

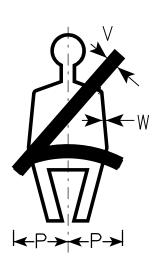
PLOT DATE: 25-MAR-2011 13:40

PLOT BY: mscsja

- 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.



	\
C BUCKE PP	G F H A B B G F J K
	G V
← A →	A
R5-53A	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	l v	w	Х	Y	Z	Area sq. ft.
1																											
2S	18	24	1 1/8	3/8	3/8	2	1 3/4	1 1/2	9	1 1/4	3	6 3/4	2 1/4	1 1/2	2 1/8	2 1/2	3 1/8	1 1/4	3/8	4 %	3 1/8	5/8	1/8				3.00
2M	18	24	1 1/8	3/8	3/8	2	1 3/4	1 1/2	9	1 1/4	3	6 ¾	2 1/4	1 1/2	2 1/8	2 1/2	3 %	1 1/4	3/8	4 %	3 %	5/8	1/8				3.00
3																											
4																											
5	42	54	2 1/4	3/4	1	5	4	3 1/2	20	2 1/2	6	17 %	6	4	7 %	5 ¾	10	3 ½	1	12 1/4	8	11/2	3/8				15.75
PRO	OJECT NO: HWY:											COUNT	Y:														

STANDARD SIGN R5-53A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

PLATE NO. R5-53A.5 DATE 3/29/2011

SHEET NO:

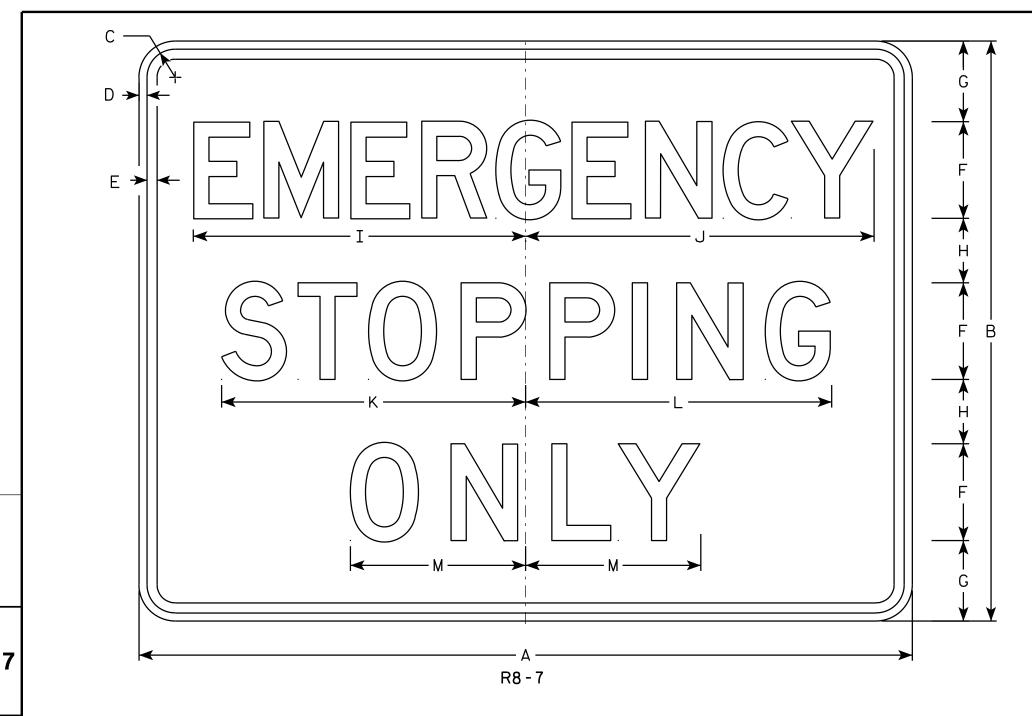
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R553A.DGN

PLOT DATE: 29-MAR-2011 13:56

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 10.130374:1.000000



- 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.

STANDARD SIGN R8-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 3/31/2011

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R87.DGN

PLOT DATE: 31-MAR-2011 14:28

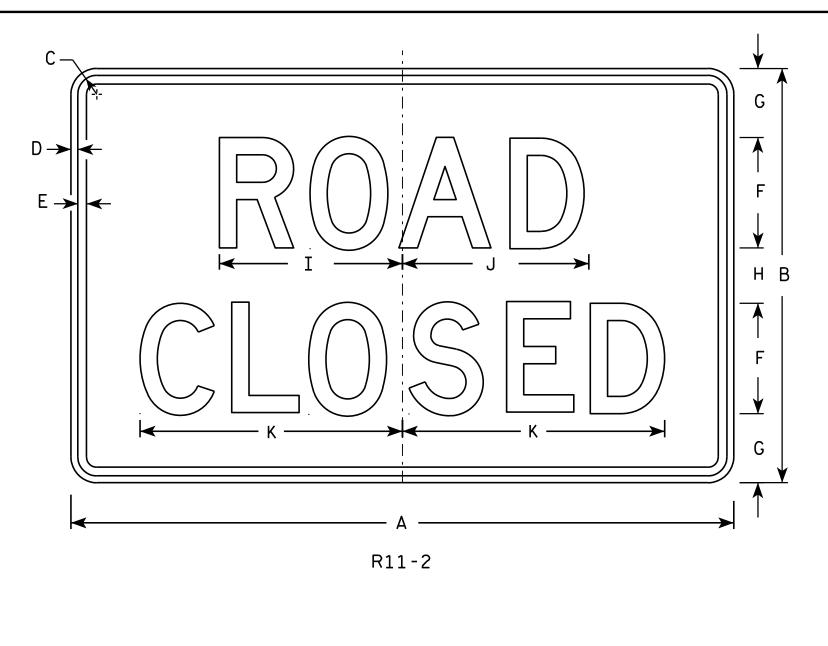
PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. __R8-7.6

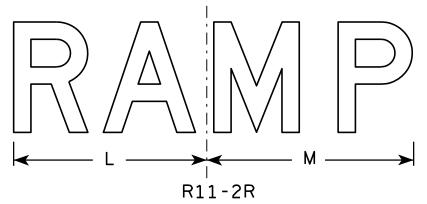


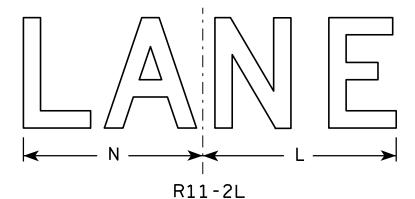
<u>NOTES</u>

- 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. Modify the message as required.





SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Ρ	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
PRO	DJECT	NO:						HWY:					С	OUNTY	':												

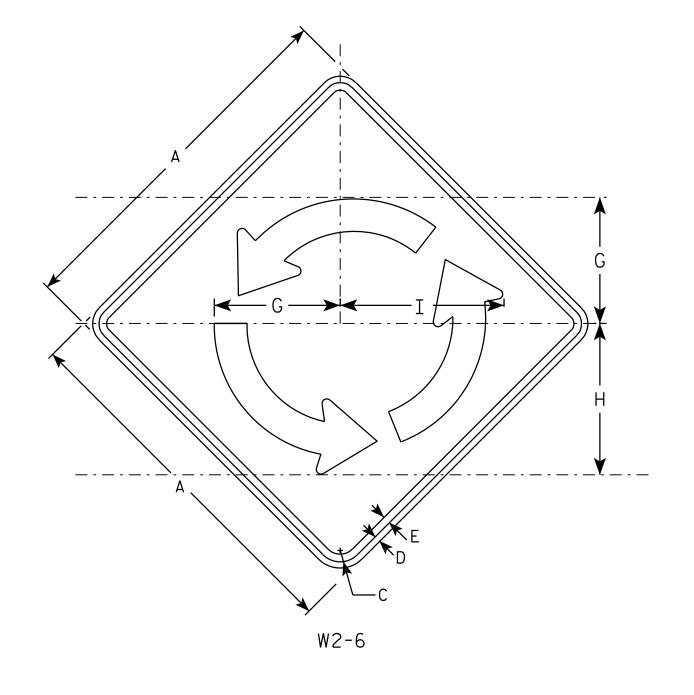
STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

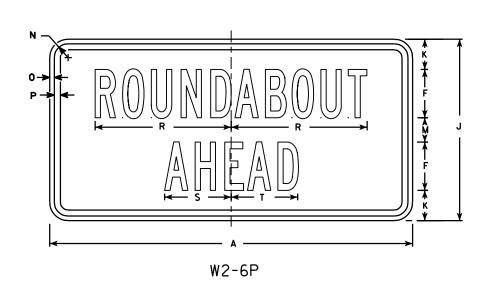
PLOT BY: mscj9h



- 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.



																									W2-6P
Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Area sq. ft.	Area sq. ft.
30		1 3/8	1/2	5/8	4	10 ¾	12 1/2	13 ½	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 ½	5 ½					6.25	3.12
30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 ½	15	2 1/2		2	1 1/8	3∕8	1/2		11 1/4	5 ½	5 ½					6.25	3.12
36		1 %	5/8	3/4	5	12 1/2	15	16 1/4	18	2 %		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
48		2 1/4	₹4	1	6	16 %	20	16 1/4	24	4 3/8		3 %	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
	30 36	30 36	30 1 3/8 36 1 5/8	30 1 3/8 1/2 36 1 5/8 5/8	30 1 3/8 1/2 5/8 36 1 5/8 5/8 3/4	30 1 3/8 1/2 5/8 4 36 1 5/8 5/8 3/4 5	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	A B C D E F G H I J K L M N O P O R S T U V W X 30 1 3/8 1/2 5/8 4 10 3/8 12 1/2 13 1/2 15 2 1/2 2 1 1/8 3/8 1/2 11 1/4 5 1/2 5 1/2 30 1 3/8 1/2 5/8 4 10 3/8 12 1/2 13 1/2 15 2 1/2 2 1 1/8 3/8 1/2 11 1/4 5 1/2 5 1/2 30 1 5/8 5/8 3/4 5 12 1/2 15 16 1/4 18 2 5/8 2 3/4 1 1/8 3/8 1/2 14 7 6 3/4	A B C D E F G H I J K L M N O P O R S T U V W X \$\frac{Areq}{62.47}\$. 30 1 \frac{3}{8} \frac{1}{2} \frac{5}{8} 4 10 \frac{3}{8} 12 \frac{1}{2} 13 \frac{1}{2} 15 2 \frac{1}{2} 2 1 \frac{1}{8} \frac{3}{8} \frac{1}{2} 11 \frac{1}{8} \frac{5}{8} 2 1 1 \frac{1}{4} 5 \frac{1}{2} 5 \frac{1}{2} 5 \frac{1}{2} 1 1 \frac{1}{2} 1 1 1 \frac{1}{2} 1 1 \frac{1}{2} 1 1 \frac{1}{2} 1 1 1 \frac{1}{2} 1 1 \frac{1}{2} 1 1 \frac{1}{2} 1 1 1 \frac{1}{2} 1 1 \frac{1}{2} 1 1 \frac{1}{2} 1 1 1 \frac{1}{2} 1 1 \frac{1}{2} 1 1 \frac{1}{2} 1 1 1 \frac{1}{2} 1 1 \frac

STANDARD SIGN W2 - 6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE <u>6/29/12</u>

PLATE NO. <u>W2-6.5</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W26.DGN

PROJECT NO:

- 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.

W4-1R

HWY:

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	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 %	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 ¾	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 %	10 %	11 3/8	7 ⁄8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 ¾	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 %	10 %	11 3/8	7∕8									9.0
3	36		1 %	5/8	3/4	14	2 3/4	6	15 ¾	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 %	10 %	11 3/8	1 /8									9.0
4	48		2 1/4	₹4	1	18 3/4	3 %	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 ¾	3 %	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
					•										•												

COUNTY:

STANDARD SIGN W4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Raw

For State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-1.14

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W41.DGN

PROJECT NO:

PLOT DATE: 12-MAR-2013 11:06

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE : 6.202372:1.000000



FILE NAME . C.\CAFfiles\Projects\tr stdolote\W201 DCN

PLOT DATE . 01-DEC-2015 18.24

PIOT RY * \$\$ plotuser \$\$

W04-1R

HWY:

NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

15 ¾ 13 ¼ 10 ¼ 5 ¼ 6 ¾ 45° 3 ¾ 10 % 11 ¾ 1 5/8 3/4 14 2 3/4 36 9.0 18 3/4 3 5/8 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 2 1/4 16.0 48 4 3/4 14 1/4 15 1/4 1 1/4 2M 2 1/4 3/4 18 3/4 3 5/8 20 1/2 17 1/2 14 3/8 7 8 3/8 45° 48 16.0 2 1/4 | 3/4 3 18 3/4 3 5/8 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 48 16.0 18 3/4 3 5/8 2 1/4 | 3/4 20 1/2 17 1/2 14 3/8 8 3/8 45° 4 3/4 14 1/4 15 1/4 1 1/4 4 48 7 16.0 18 3/4 3 5/8 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 2 1/4 3/4 48 8 16.0

COUNTY:

STANDARD SIGN WO4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 11/20/13

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W041.DGN

PROJECT NO:

PLOT DATE: 20-NOV-2013 11:38

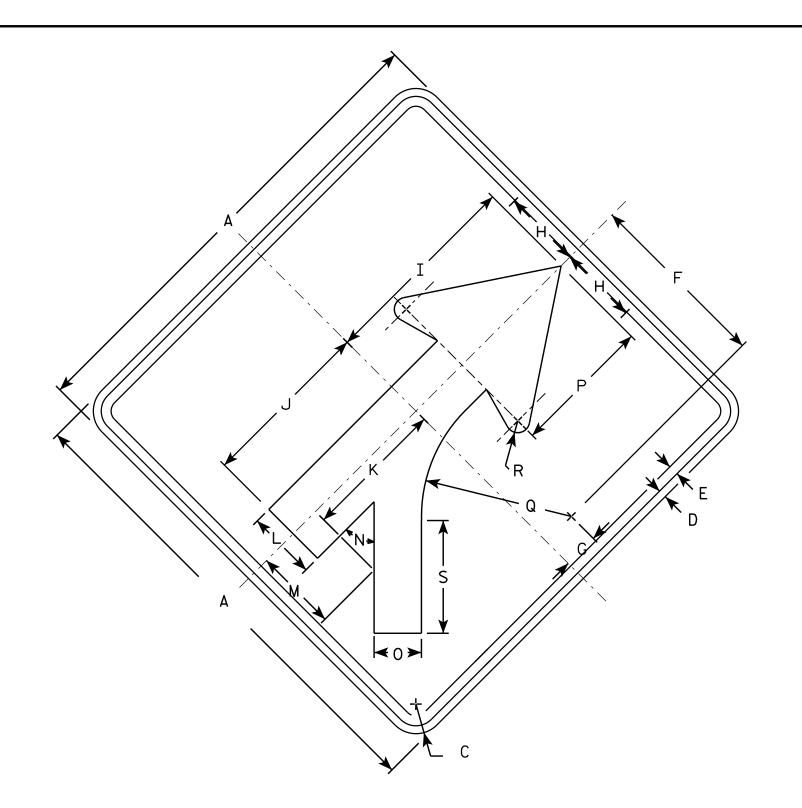
PLOT NAME :

PLOT SCALE: 6.080757:1.000000

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W04-5

HWY:

SIZ	Ε .	Α	В	C	D	E	F	G	Η	I	J	K	L	M	N	0	Р	0	R	S	T	J	٧	₩	X	Y	Z	sq. ft.
1		36		1 5/8	5/8	3/4	14	2 3/4	6	15 ¾	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 %	10 %	11 3/8	<i>7</i> ⁄8	8 1/2								9.0
25	5 4	48		2 1/4	3/4	1	18 3/4	3 %	8	20 1/2	17 1/2	14 3/8	7	8 %	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0
2N	1 4	48		2 1/4	3/4	1	18 3/4	3 %	8	20 1/2	17 1/2	14 3/8	7	8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0
3	4	48		2 1/4	3/4	1	18 3/4	3 %	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	11 3/8								16.0
4	4	48		2 1/4	3/4	1	18 3/4	3 %	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	11 3/8								16.0
5	4	48		2 1/4	3∕4	1	18 ¾	3 %	8	20 ½	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8			·					16.0

COUNTY:

STANDARD SIGN WO4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Lauch

For State Traffic Engineer

DATE 4/28/16 PLATE NO. WO4-5.1

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W045.DGN

PROJECT NO:

PLOT DATE: 28-APR-2016 13:30

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE : 6.080757:1.000000

PLAYBIRD ROAD

				AREA (SF)		Increr	nental Vol (CY) (Unadj	usted)	Cumulative	Vol (CY)	
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.00	Mass Ordinate
607+09.64	60709.64	0.00	0.19	0.00	14.42	0	0	0	0	0	0.00
607+64.01	60764.01	54.37	10.91	0.00	12.25	11	0	27	11	27	-15.68
607+77.93	60777.93	13.92	16.83	0.00	10.99	7	0	6	18	33	-14.52
608+34.75	60834.75	56.82	35.64	0.00	6.39	55	0	18	74	51	22.41
608+58.80	60858.80	24.05	34.56	0.00	5.76	31	0	5	105	57	48.26
609+15.45	60915.45	56.65	17.25	0.00	10.67	54	0	17	159	74	85.38
609+27.95	60927.95	12.50	8.39	0.00	11.95	6	0	5	165	79	86.07
609+64.38	60964.38	36.43	0	0.00	22.82	6	0	23	171	102	68.28

GARTON ROAD

				AREA (SF)		Increr	mental Vol (CY) (Unadji	usted)	Cumulative \	/ol (CY)	
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.00	Mass Ordinate
661+37.57	66137.57	0.00	1.87	0.00	22.92	0	0	0	0	0	0.00
661+71.48	66171.48	33.91	5.97	0.00	20.67	5	0	27	5	27	-22.45
661+83.98	66183.98	12.50	7.39	0.00	20.04	3	0	9	8	37	- 28.78
662+40.75	66240.75	56.77	14.71	0.00	13.52	23	0	35	31	72	- 40.83
662+64.84	66264.84	24.09	10.15	0.00	19.01	11	0	15	42	87	-44.25
663+21.45	66321.45	56.61	1.81	0.00	31.35	13	0	53	55	139	-84.51
663+33.96	66333.96	12.51	0.13	0.00	37.37	0	0	16	55	155	-99.98
663+67.45	66367.45	33.49	0	0.00	56.13	0	0	58	55	213	-157.88

9

9

PROJECT NO: 1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN EARTHWORK DETAIL SHEETS SHEET: **E**

ROWE ROAD

				AREA (SF)		Increr	nental Vol (CY) (Unadju	sted)	Cumulative Vol (CY)		
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material Note 4	Fill	Cut 1.00 Note 2	Expanded Fill 1.00	Mass Ordinate
714+03.61	71403.61	0.00	0	0.00	36.26	0	Note 4	0	Note 2	0	0.00
714+34.58		30.97	1.84	0.00	29.2	1	0	38	1	38	- 36.49
714+34.38		12.50	5.03	0.00	26.67	2	0	13	3	50	-47.83
715+03.96		56.88	27	0.00	13.23	34	0	42	36	93	-56.12
715+27.82		23.86	27.02	0.00	12.49	24	0	11	60	104	-43.61
715+84.58		56.76	17.93	0.00	14.85	47	0	29	108	133	-25.10
715+97.08		12.50	12.15	0.00	17.02	7	0		114	140	-25.52
716+31.99		34.91	1.26	0.00	27.17	9	0	29	123	169	-45.42

CTH FF

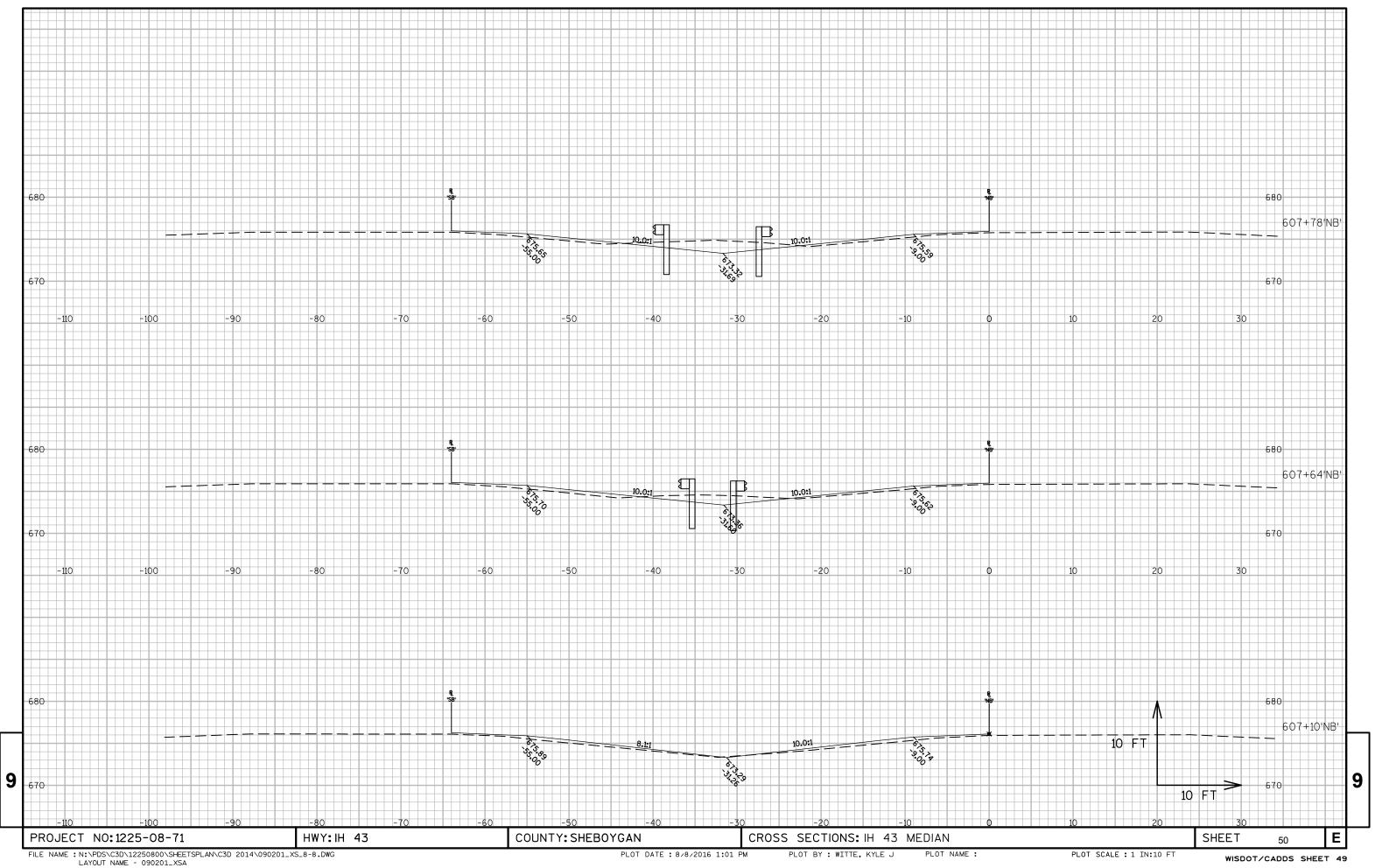
				AREA (SF)		Incre	mental Vol (CY) (Unadju	ısted)	Cumulative Vol (CY)		
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material Note 4	Fill	Cut 1.00 Note 2	Expanded Fill 1.00	Mass Ordinate
76700	76700.00	0.00	7.79	0.00	19.36	0	0	0	0	0	0.00
767+37.29	76737.29	37.29	24.39	0.00	14.84	22	0	24	22	24	-1.39
767+49.80	76749.80	12.51	30.4	0.00	13.39	13	0	7	35	30	4.76
768+03.07	76803.07	53.27	41.87	0.00	9.96	71	0	23	106	53	53.02
768+33.99	76833.99	30.92	39.29	0.00	10.77	46	0	12	153	65	87.62
768+87.43	76887.43	53.44	12.66	0.00	15.17	51	0	26	204	91	113.36
768+99.96	76899.96	12.53	6.21	0.00	20.31	4	0	8	208	99	109.50
769+39.23	76939.23	39.27	0	0.00	50.38	5	0	51	213	150	62.61

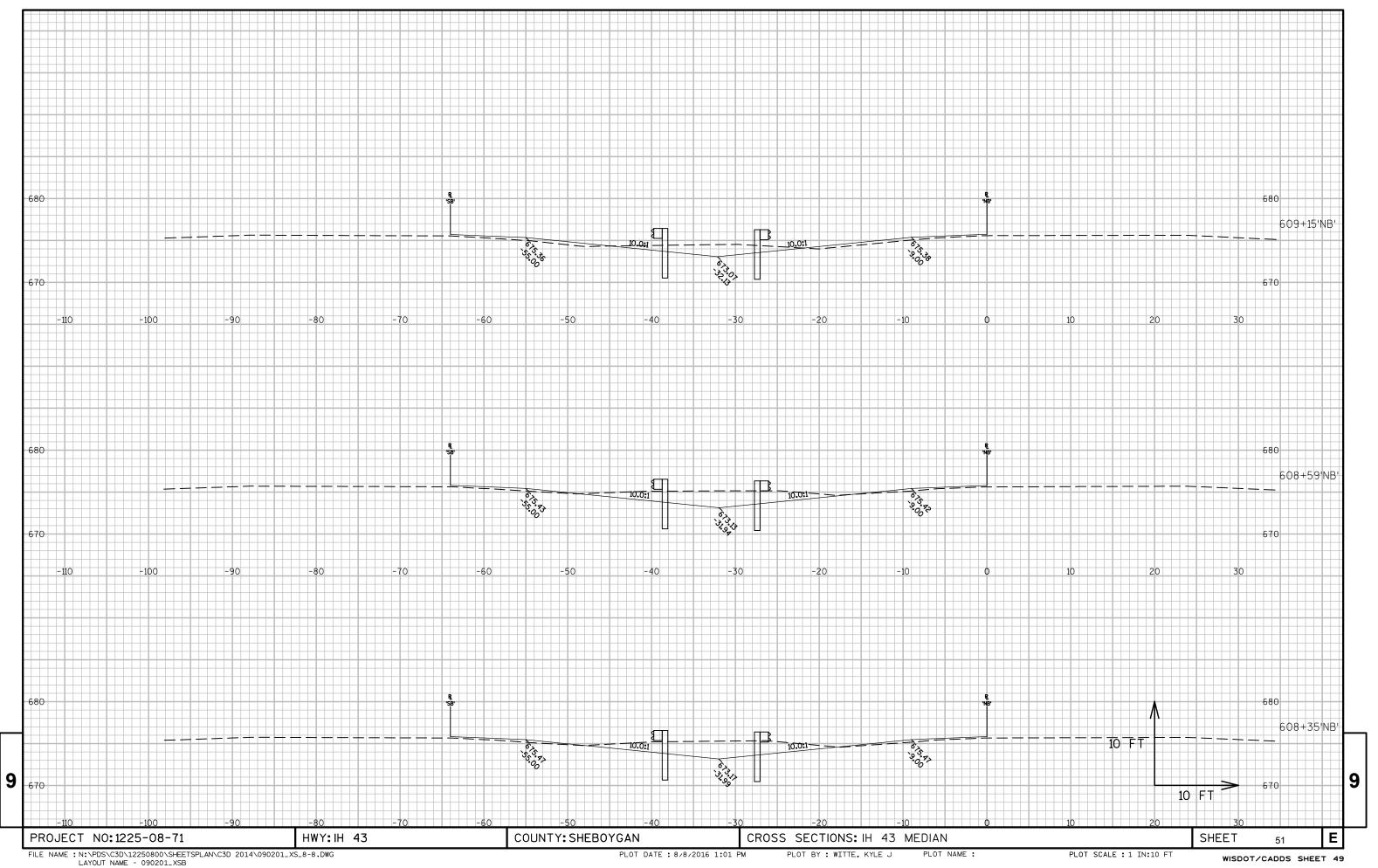
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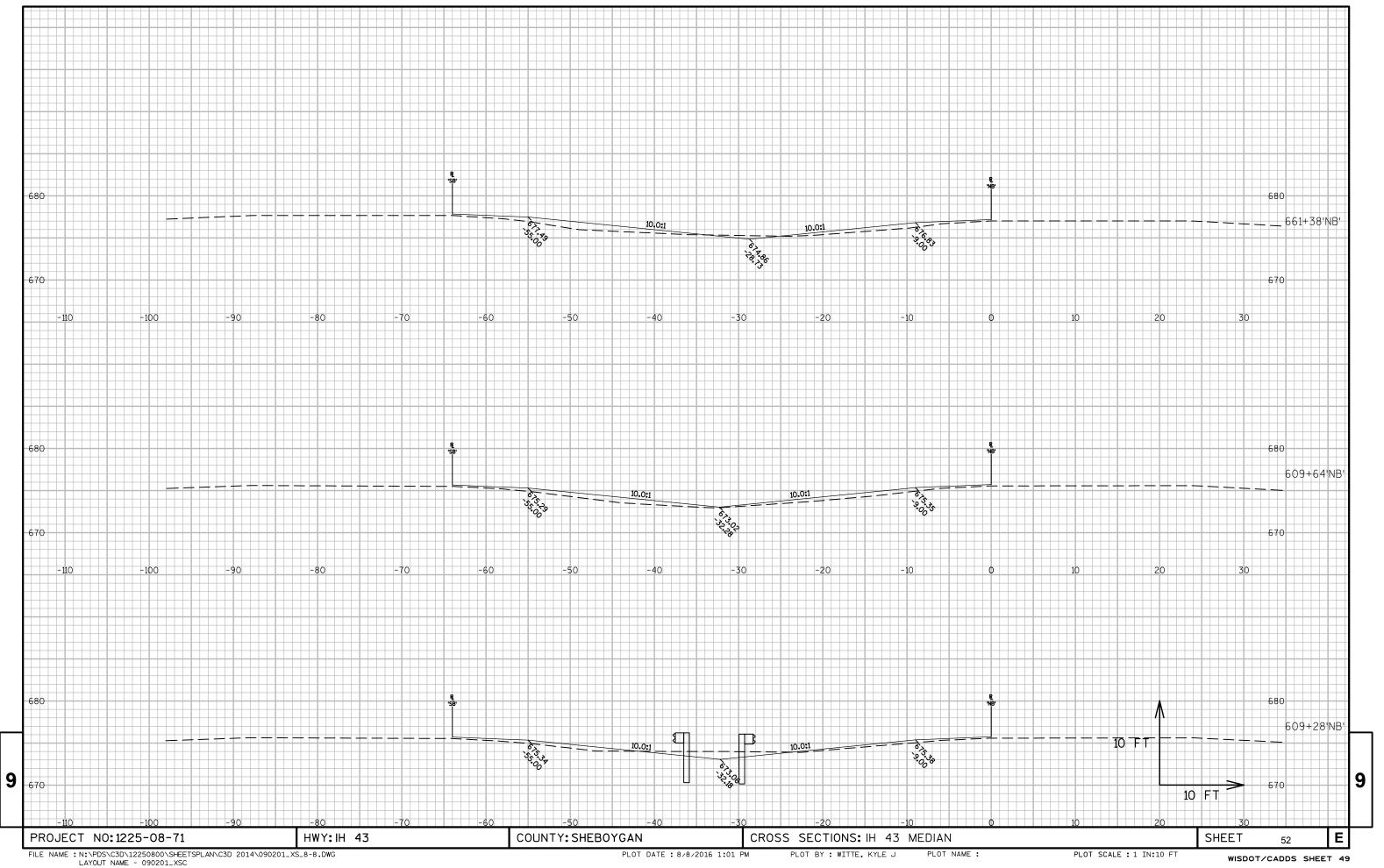
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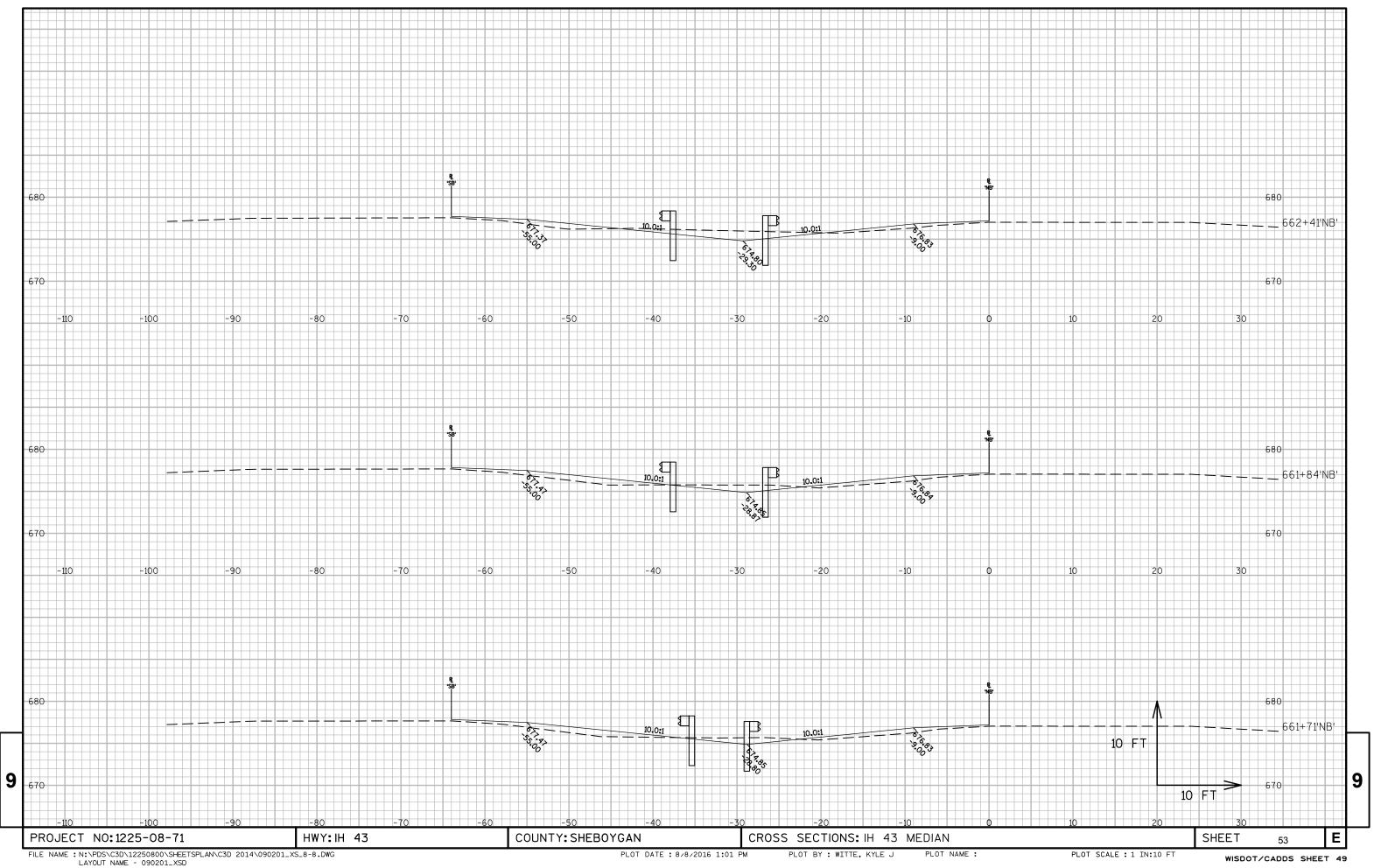
PROJECT NO: 1225-08-71 HWY: IH 43 COUNTY: SHEBOYGAN EARTHWORK DETAIL SHEETS SHEET: **E**

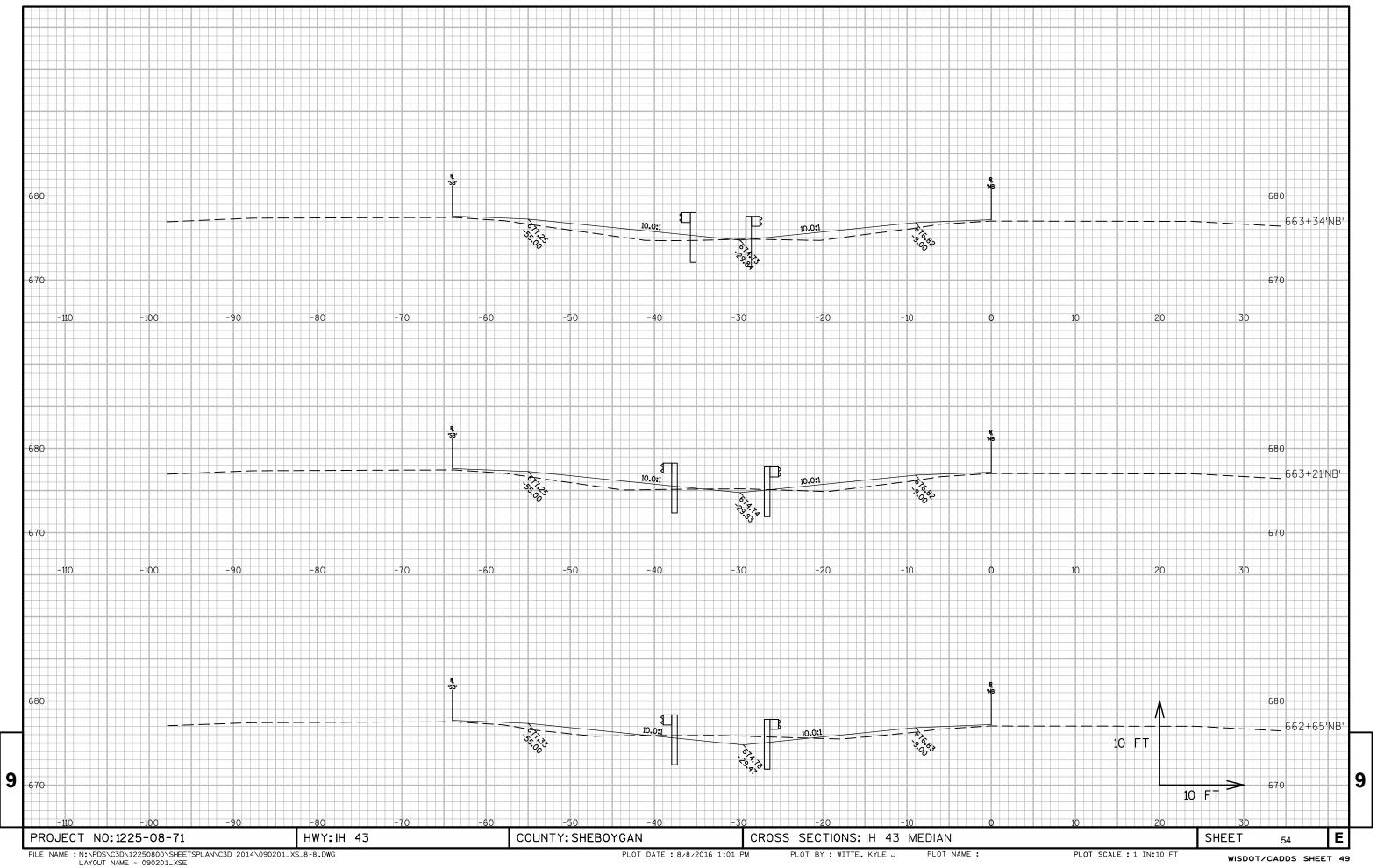
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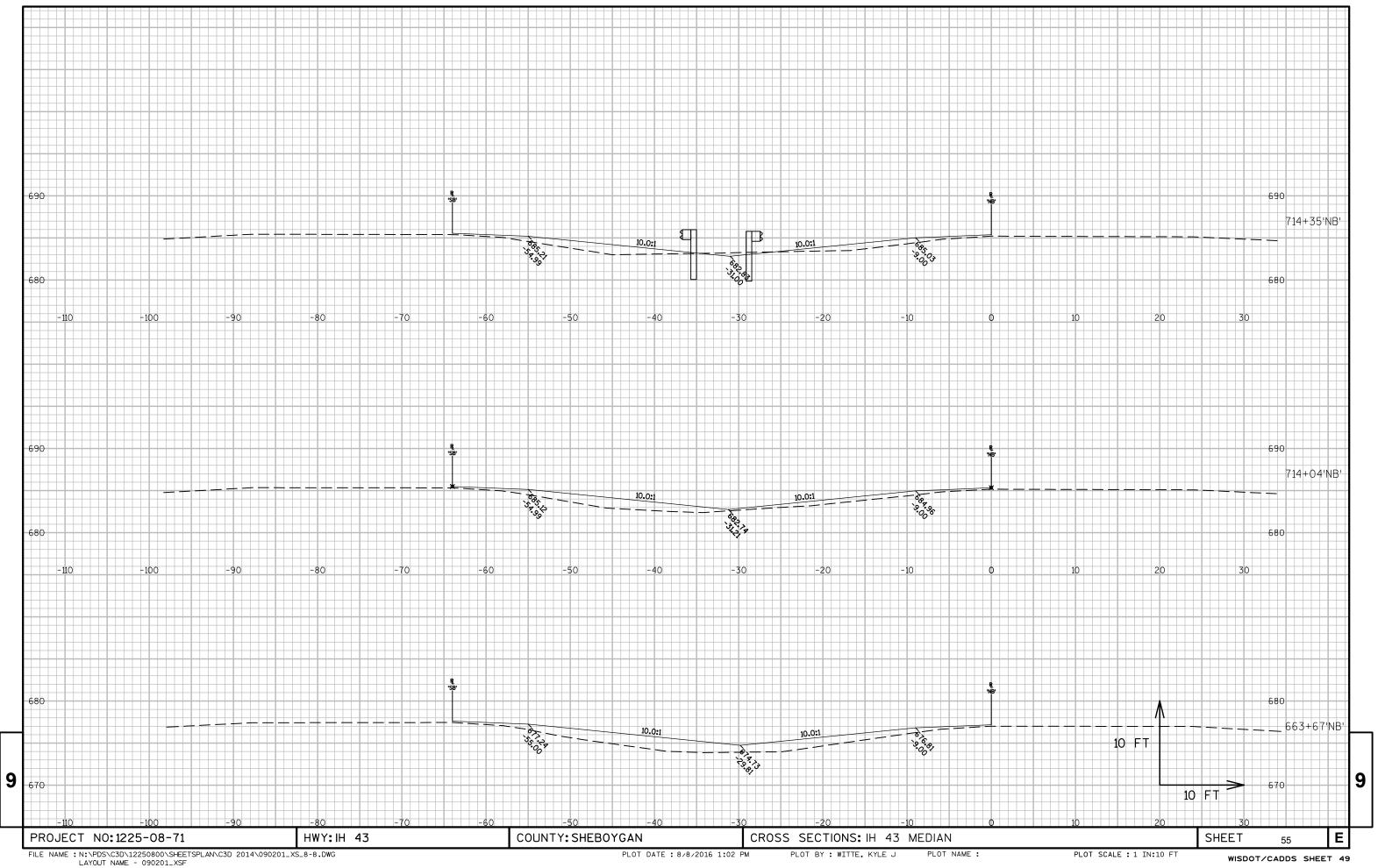


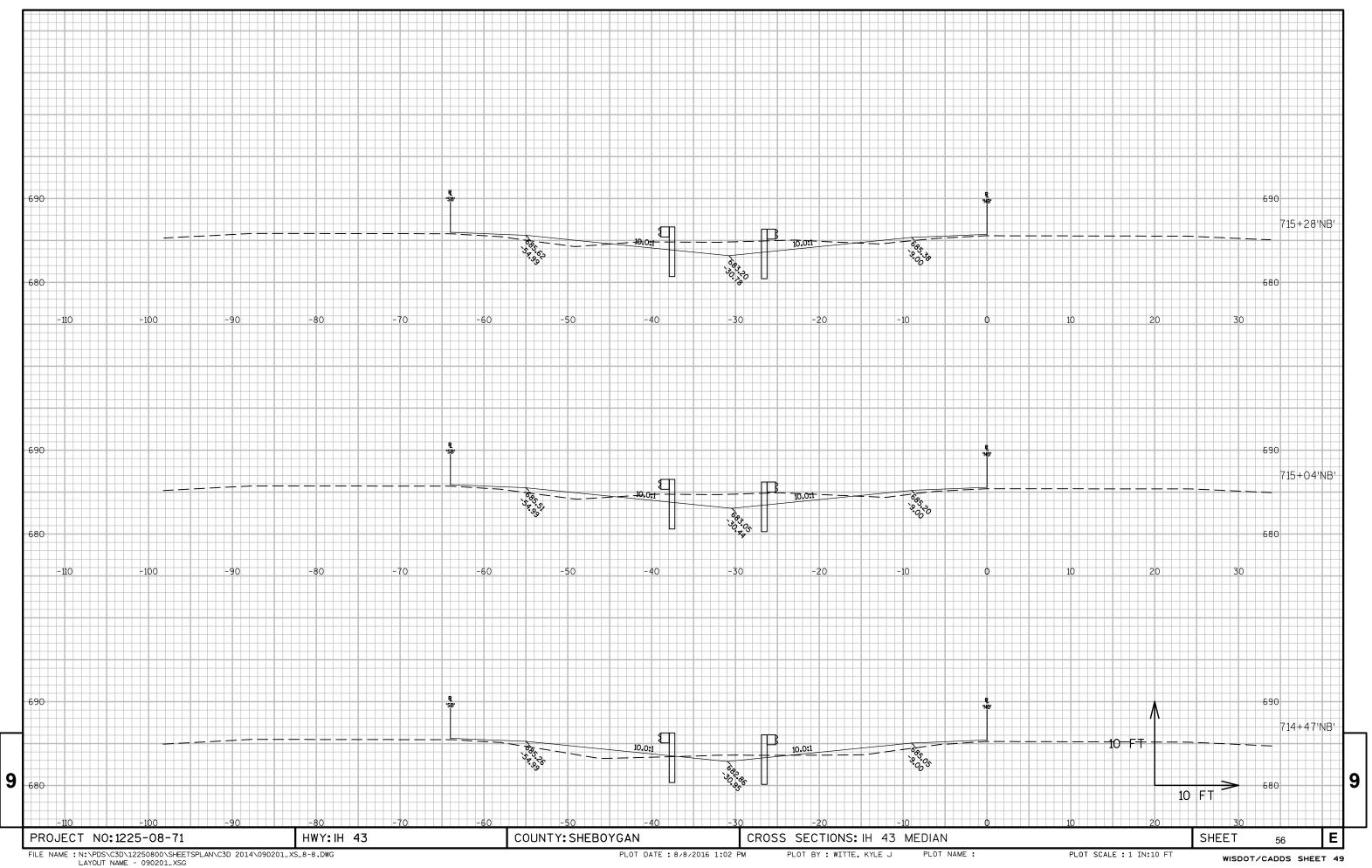


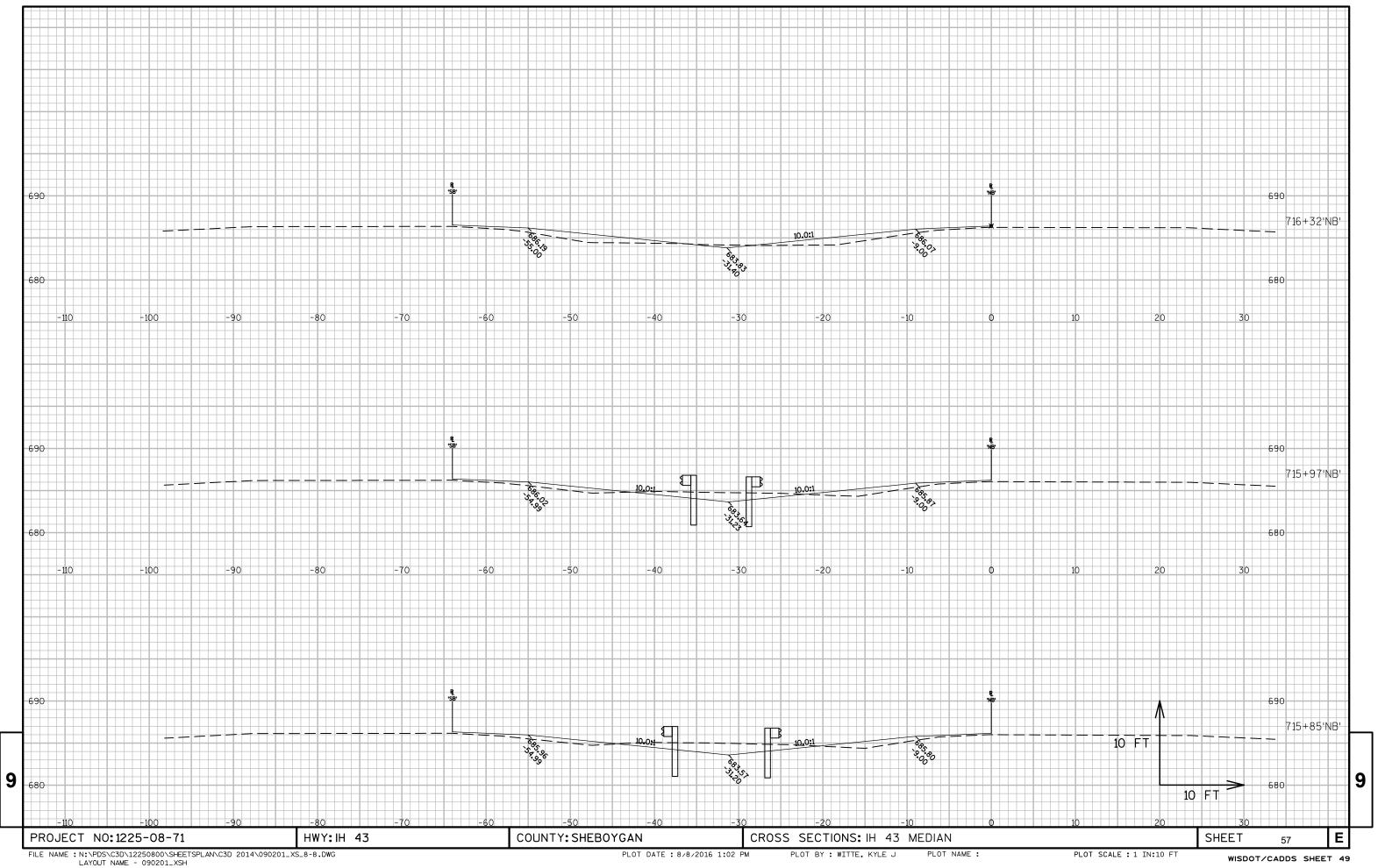


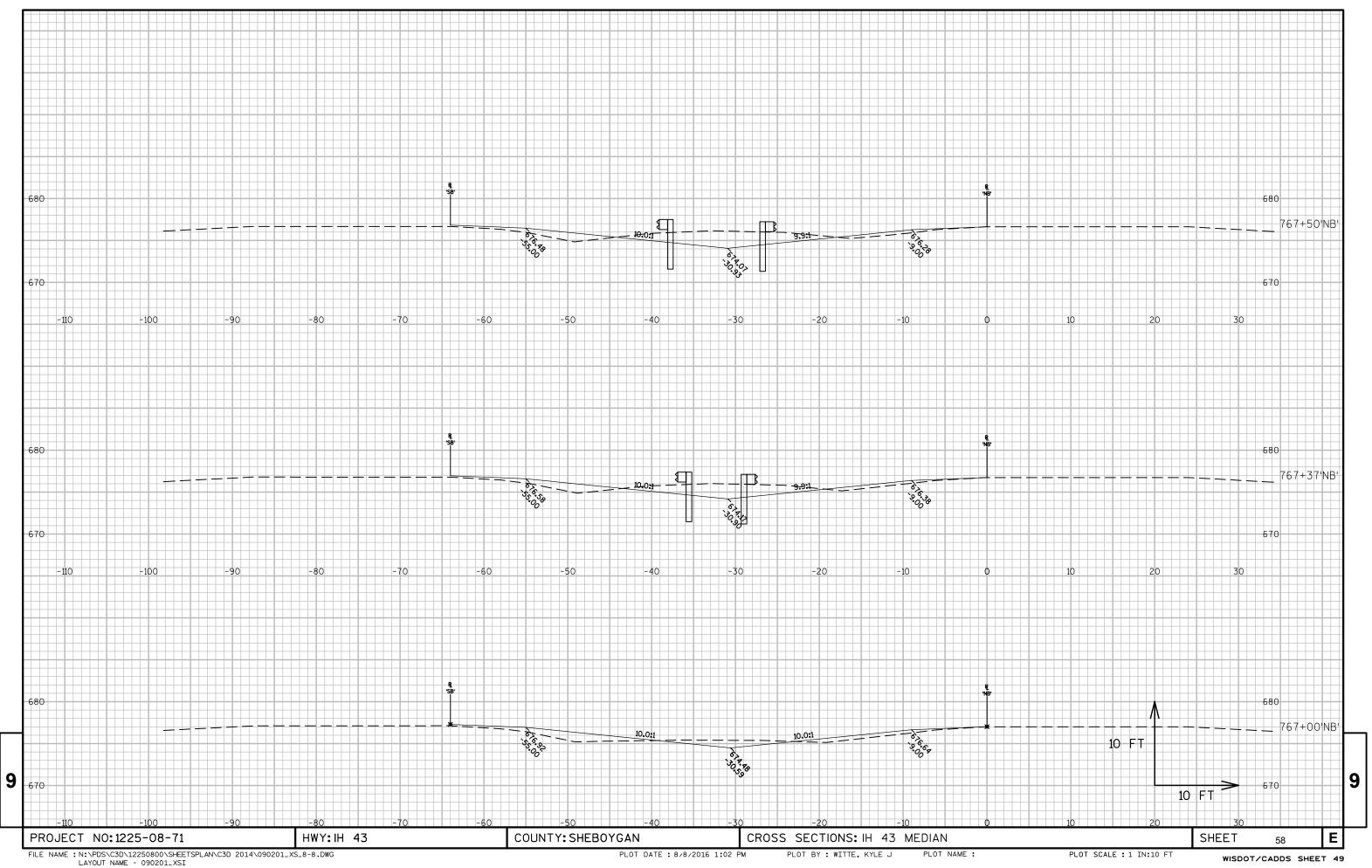


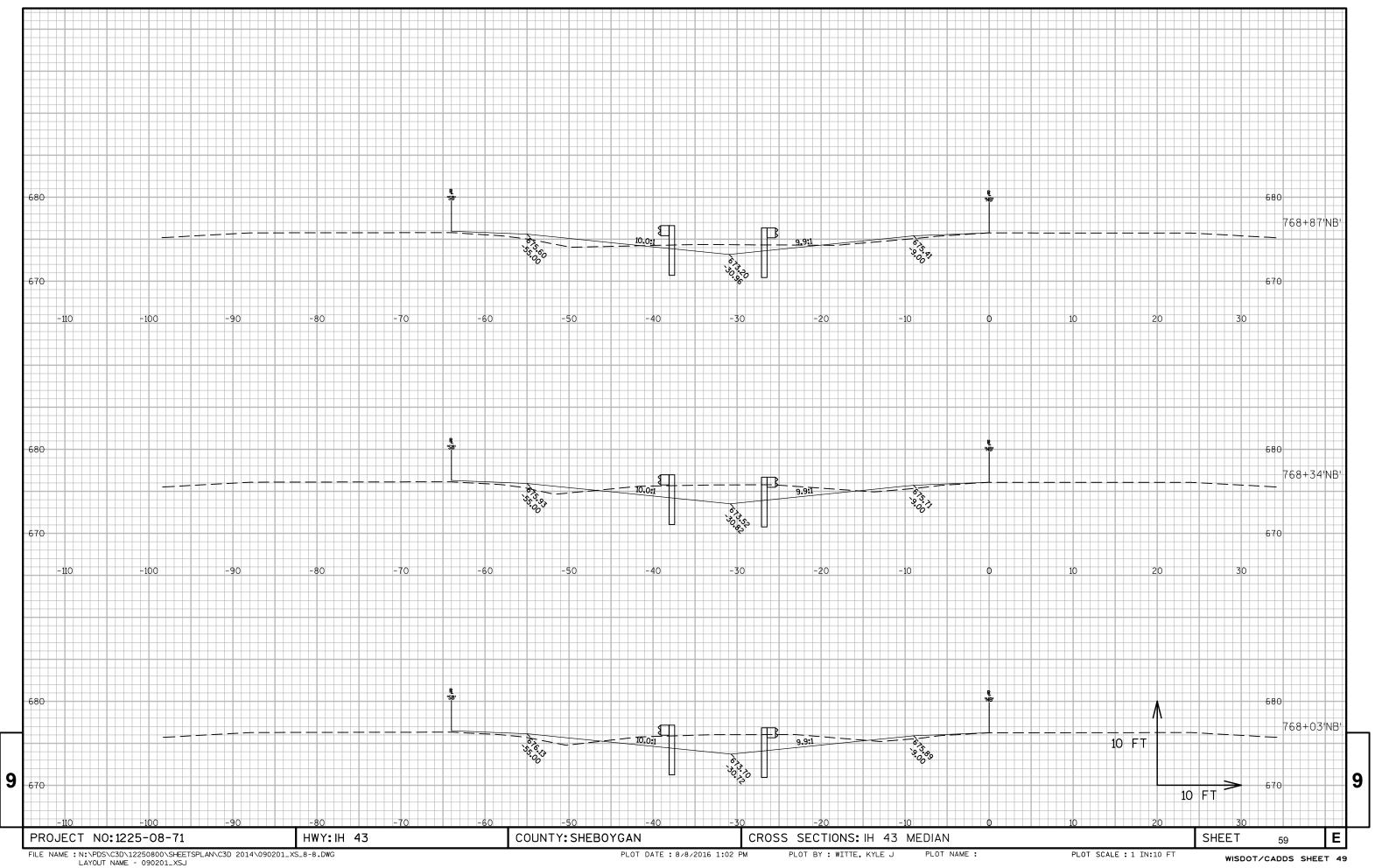


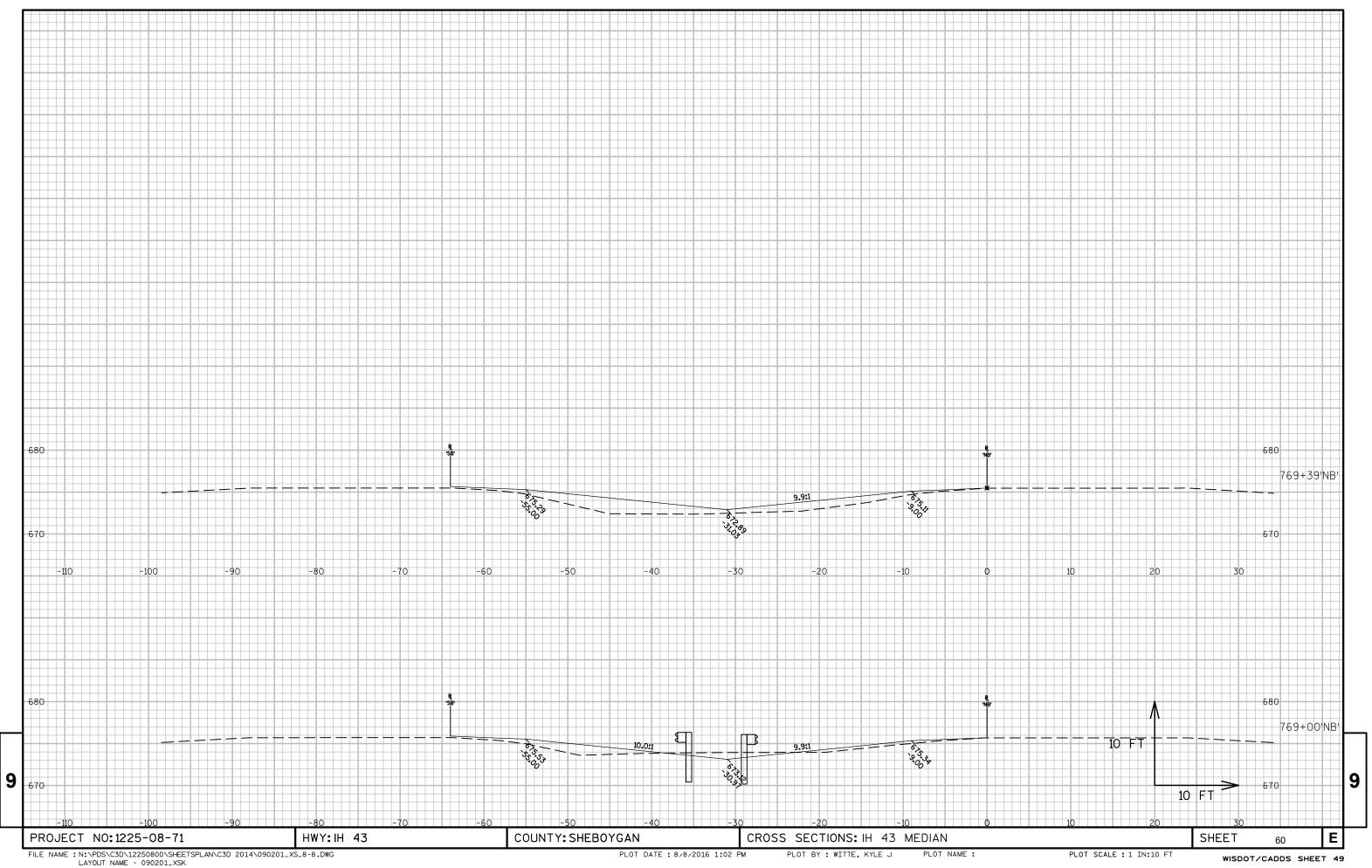














Wisconsin Department of Transportation

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