JANUARY 2025

Section No.

Section No. Section No.

Section No.

Section No. Section No.

Section No.

TOTAL SHEETS = 94

ORDER OF SHEETS

# STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

# V BRISTOL, 128TH ST

**DUTCH GAP CANAL BRIDGE P30-910** 

**CTH WG KENOSHA COUNTY** 

> STATE PROJECT NUMBER 3745-05-70

Typical Sections and Details Estimate of Quantities

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Right of Way Plat

Plan and Profile

DESIGN DESIGNATION 3745-05-00

AADT 2025 = 5.200 A.A.D.T. 2045 = 5,780 = 725 D.H.V. D.D. = 62/38 = 6% DESIGN SPEED = 50 MPH

= 430,000

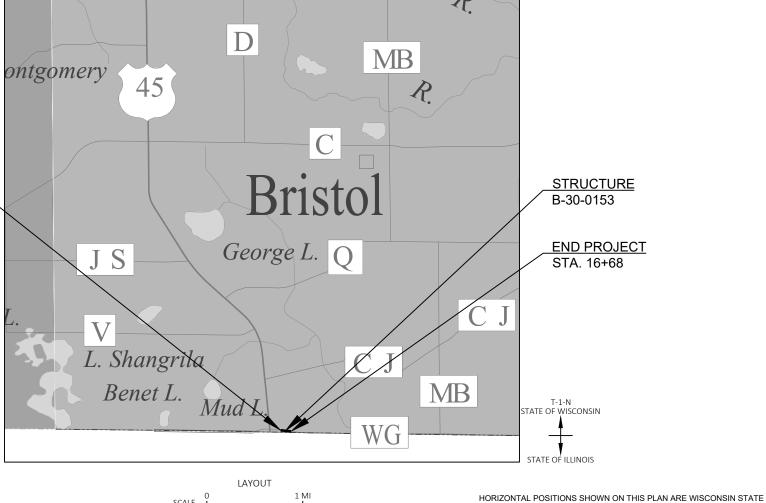
# **BEGIN PROJECT**

PROJECT LOCATION

STA. 12+32 Y = 186,922.061 X = 2,502,147.394

### CONVENTIONAL SYMBOLS

	PROFILE	
<u> </u>	GRADE LINE	
	ORIGINAL GROUND	_ ^ _ \
	MARSH OR ROCK PROFILE (To be noted as such)	ROCK
L	SPECIAL DITCH	LABEL
	GRADE ELEVATION	95.36
	CULVERT (Profile View)	0 🗆
300'EB'	UTILITIES	
	ELECTRIC	— Е —
	FIBER OPTIC	—— FO ——
<del>_</del>	GAS	—— G ——
$M_{\star}$	SANITARY SEWER	SAN
-CAUTION-	STORM SEWER	—— ss ——
7/1	TELEPHONE	— т —
(I I I )	WATER	—— w ——
	UTILITY PEDESTAL	Ħ
	POWER POLE	₫
£	TELEPHONE POLE	ø
	300/EB'	GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION  CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL POWER POLE



SCALE I

TOTAL NET LENGTH OF CENTERLINE = 0.083 MI

5/3/2024 11:26 AM

PLANE COORDINATE SYSTEM GRID, SOUTH-ZONE NAD83 (2011), IN U.S. SURVEY FEET, POSITIONS SHOWN ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS

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

ACCEPTED FOR

FEDERAL PROJECT

PROJECT

WISC 2025036

CONTRACT

STATE PROJECT

3745-05-70

KENOSHA COUNTY

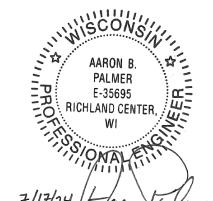
7/23/2024 Gregory J. Boldt, PE

**Highway Commissioner** 

ORIGINAL PLANS PREPARED BY

# **WESTBROOK**

619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WISCONSIN 53588 PHONE (608) 588-7866 FAX (608) 588-7954



#### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

WESTBROOK ASSOCIATED ENGINEERS, INC Surveyor Designer

ATE: 07/23/2024

	ABUT	ABUTMENT
	AC	ACRE
)	AGG	AGGREGATE
-	AH	AHEAD
	_	ANGLE
	AADT	ANNUAL AVERAGE
	AEW	APRON ENDWALL
	ASPH	ASPHALTIC
	BK	BACK
	BC	BACK OF CURB
	BAD	BASE AGGREGATE [
	BL OR B/L	BASE LINE
	BM	BENCH MARK
	CB	CATCH BASIN
	CL OR C/L	CENTER LINE
	Δ	CENTRAL ANGLE OF
	CE	COMMERCIAL ENTE
	CONC	CONCRETE
	CSW	CONCRETE SIDEWA
	CONST	CONSTRUCTION
	CP	CONTROL POINT
	CO	COUNTY
	CTH	COUNTY TRUCK HIG
	CY	CUBIC YARD
	CP	CULVERT PIPE
	C & G	CURB AND GUTTER
	D	DEGREE OF CURVE
	DHV	DESIGN HOUR VOLU
	DIA	DIAMETER
	DD	DIRECTIONAL DISTR
	DF	DRAINAGE FASEME

	STANDARD ABBREVIATIONS						
ABUT	ABUTMENT	CWT	HUNDRED WEIGHT	STH	STATE TRUNK HIGHWAY		
AC	ACRE	IN DIA	INCH DIAMETER	STA	STATION		
AGG	AGGREGATE	INL	INLET	SE	SUPERELEVATION		
AH	AHEAD	ID	INSIDE DIAMETER	SL OR S/L	SURVEY LINE		
_	ANGLE	INTERS	INTERSECTION	TEMP	TEMPORARY		
AADT	ANNUAL AVERAGE DAILY TRAFFIC	IH	INTERSTATE HIGHWAY	TI	TEMPORARY INTEREST		
AEW	APRON ENDWALL	INV	INVERT	TLE	TEMPORARY LIMITED EASEMENT		
ASPH	ASPHALTIC	JT	JOINT	TC	TOP OF CURB		
BK	BACK	LT	LEFT	TL OR T/L	TRANSIT LINE		
BC	BACK OF CURB	LHF	LEFT HAND FORWARD	Т	TRUCKS (PERCENT OF)		
BAD	BASE AGGREGATE DENSE	L	LENGTH OF CURVE	TYP	TYPICAL		
BL OR B/L	BASE LINE	LF	LINEAR FOOT	USH	UNITED STATES HIGHWAY		
BM	BENCH MARK	LC	LONG CHORD OF CURVE	VAR	VARIABLE		
СВ	CATCH BASIN	LS	LUMP SUM	VC	VERTICAL CURVE		
CL OR C/L	CENTER LINE	MGAL	ONE THOUSAND GALLONS	VPC	VERTICAL POINT OF CURVATURE		
Δ	CENTRAL ANGLE OR DELTA	MH	MANHOLE	VPI	VERTICAL POINT OF INTERSECTION		
CE	COMMERCIAL ENTRANCE	ML OR M/L	MATCH LINE	VPT	VERTICAL POINT OF TANGENCY		
CONC	CONCRETE	NOM	NOMINAL	W	WEST		
CSW	CONCRETE SIDEWALK	NC	NORMAL CROWN	WB	WESTBOUND		
CONST	CONSTRUCTION	NB	NORTHBOUND				
CP	CONTROL POINT	NO	NUMBER				
CO	COUNTY	OD	OUTSIDE DIAMETER				
CTH	COUNTY TRUCK HIGHWAY	PAVT	PAVEMENT				
CY	CUBIC YARD	PLE	PERMANENT LIMITED EASEMENT				
CP	CULVERT PIPE	PC	POINT OF CURVATURE				
C & G	CURB AND GUTTER	PI	POINT OF INTERSECTION				
D	DEGREE OF CURVE	PT	POINT OF TANGENCY				
DHV	DESIGN HOUR VOLUME	PCC	PORTLAND CEMENT CONCRETE				
DIA	DIAMETER	LB	POUND				
DD	DIRECTIONAL DISTRIBUTION	PSI	POUNDS PER SQUARE INCH				
DE	DRAINAGE EASEMENT	PE	PRIVATE ENTRANCE				
DWY	DRIVEWAY	PROJ	PROJECT				
EA	EACH	PL	PROPERTY LINE				
EB	EASTBOUND	PRW	PROPOSED RIGHT OF WAY				
EL OR ELEV	ELEVATION	R	RADIUS				
EMB	EMBANKMENT	RL OR R/L	REFERENCE LINE				
EW	ENDWALL	REQD	REQUIRED				
EAT	ENERGY ABSORBING TERMINAL	RT	RIGHT				
ESALS	EQUIVALENT SINGLE AXLE LOADS	RHF	RIGHT HAND FORWARD				
EXC	EXCAVATION	R/W	RIGHT OF WAY				
EBS	EXCAVATION BELOW SUBGRADE	RD	ROAD				
EXIST	EXISTING	RDWY	ROADWAY				
FERT	FERTILIZER	SHLDR	SHOULDER				
FE FLORE/L	FIELD ENTRANCE	SW	SIDEWALK				
FL OR F/L	FLOW LINE	SB	SOUTHBOUND				
FT	FOOT	SPECS	SPECIFICATIONS				
FTMS	FREE TRAFFIC MANAGEMENT SYSTEM	SF	SQUARE FEET				
HES	HIGH EARLY STRENGTH	SY	SQUARE YARD				
HE	HIGHWAY EASEMENT	SDD	STANDARD DETAIL DRAWINGS				

#### **RUNOFF COEFFICIENT TABLE**

		HYDROLOGIC SOIL GROUP										
		А			В		С			D		
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
NOW CHOP3.	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
SIDE SLOPETORF.			.32			.34			.36			.38
PAVEMENT:												
ASPHALT:						.70	95					
CONCRETE:						.80	95					
BRICK:						.70 -	80					
DRIVES, WALKS:						.75 -	85					
ROOFS:	.7595											
GRAVEL ROADS, SHOULDERS:	HOULDERS: .4060											

#### WISCONSIN DNR LIAISON

BENTON STELZEL SOUTH EAST REGION 1027 WEST ST. PAUL AVE MILWAUKEE, WI 53233 PHONE: (262) 623-0194

EMAIL: benton.stelzel@wisconsin.gov

#### **DESIGN CONSULTANT**

AARON PALMER, P.E. **DESIGN CONSULTANT** 619 EAST HOXIE ST. SPRING GREEN, WI 53588 PHONE: (608) 588-7866 EMAIL: apalmer@westbrookeng.com

#### **KENOSHA COUNTY**

DOUGLAS COEUR, P.E. CIVII ENGINEER 19600 75TH STREET BRISTOL, WI 53104 PHONE: (262) 857-1870

EMAIL: Douglas.Coeur@kenoshacountywi.gov

#### VILLAGE OF BRISTOL

RANDY KERKMAN VILLAGE ADMINISTRATOR 19801 83RD STREET BRISTOL, WI 53104 PHONE: (262) 857-2368 EMAIL: admin@villageofbristol.org

#### **UTILITIES CONTACTS**

FRONTIFR COMMUNICATIONS COMMUNICATIONS CHRISTOPHER POLLACK 1851 N. 144TH AVE WAUSAU, WI 54401 PHONE: (715) 847-1240 EMAIL: christopher.pollack@ftr.com

WE ENERGIES ELECTRIC JASON CHAPIN 7815 NORTHWESTERN AVE RACINE, WI 53406 PHONE: (414) 587-0655 EMAIL: jason.chapin@we-energies.com



#### **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

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

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

APPLY TACK COAT BETWEEN LAYERS OF HMA PAVEMENT AT A RATE OF 0.07 GAL/SY.

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

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

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

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

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

APPLY SEED, EROSION MAT, AND FERTILIZER TO ALL DISTURBED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLÉTED.

SLOPES STEEPER THAN 3:1 REQUIRE EROSION MAT.

PRIOR TO PLACING THE NEW BASE AGGREGATE DENSE COURSE OR PAVED SHOULDERS EXISTING UNCOMPACTED SHOULDER MATERIAL SHALL BE REMOVED OR DEPOSITED ON THE OUTER PORTION OF THE EXISTING SHOULDER OR AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATION AND WIDTH OF FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

CURB AND GUTTER PLAN GRADES ARE AT THE FLANGE LINE UNLESS OTHERWISE NOTED.

THE PROPOSED SHOULDER WIDTH SHOWN IN THE TYPICAL SECTIONS ARE MINIMUM WIDTH. PERPETUATE EXISTING SHOULDERS THAT ARE WIDER THAN WHAT IS SHOWN IN THE TYPICAL SECTIONS.

THE CONTRACTOR'S PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.

THE 5-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING TWO (2) 2.5-INCH LAYERS. PROVIDE A 2.5-INCH LOWER LAYER OF 3 MT 58-28 S. PROVIDE A 2.5-INCH UPPER LAYER OF 4 MT 58-28 H.

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

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

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN PAVING OR PIPE LAYING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAYS SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER OPERATIONS ARE COMPLETED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.

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

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

#### ORDER OF SECTION 2 DETAIL SHEETS

**GENERAL NOTES** TYPICAL SECTIONS BEAM GUARD DETAILS CONSTRUCTION DETAILS PERMANENT SIGNING AND PAVEMENT MARKING DETOUR ROUTE ALIGNMENT DETAILS

PROJECT NO: 3745-05-70

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.74 ACRES

HWY: CTH WG

COUNTY: KENOSHA

**GENERAL NOTES** 

PLOT SCALE:

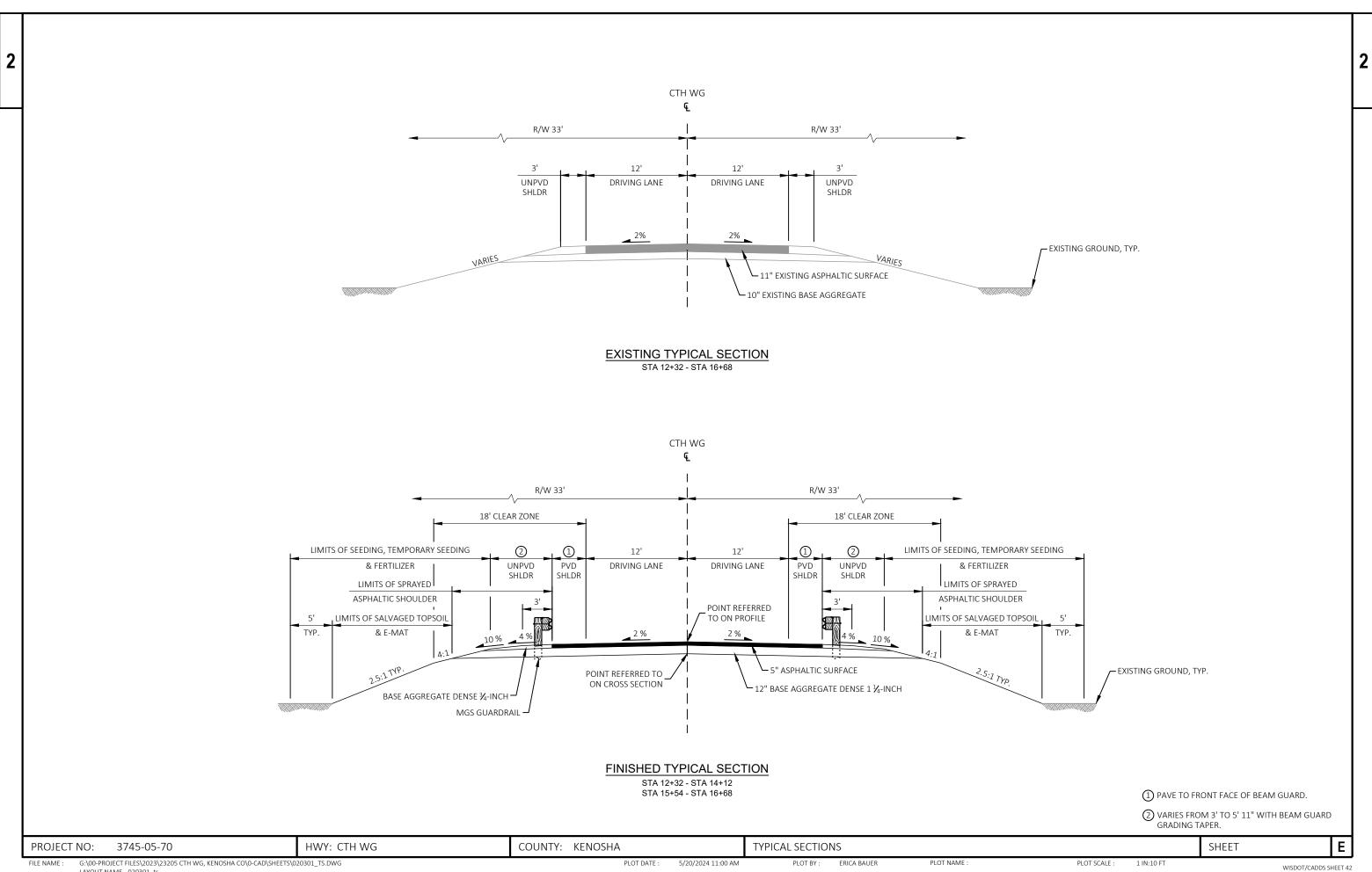
**SHEET** 

WISDOT/CADDS SHEET 42

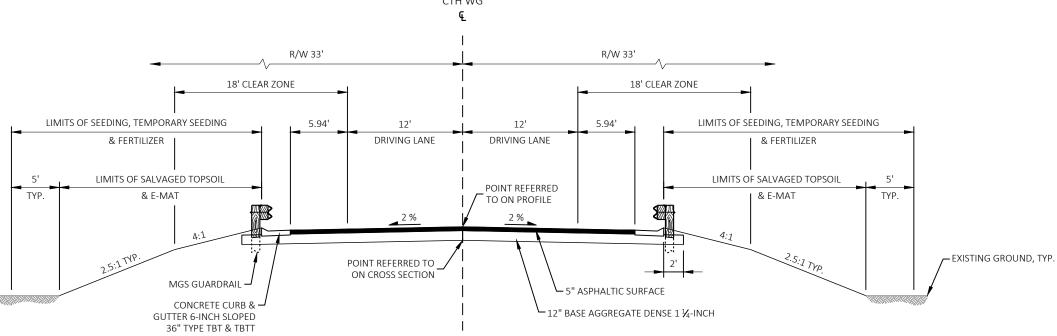
G:\00-PROJECT FILES\2023\23205 CTH WG, KENOSHA CO\0-CAD\SHEETS\020101 GN,DWG FILE NAME : LAYOUT NAME - 020101\_gn

11/8/2024 11:15 AM

PLOT BY: ERIK MEYER PLOT NAME



2 CTH WG



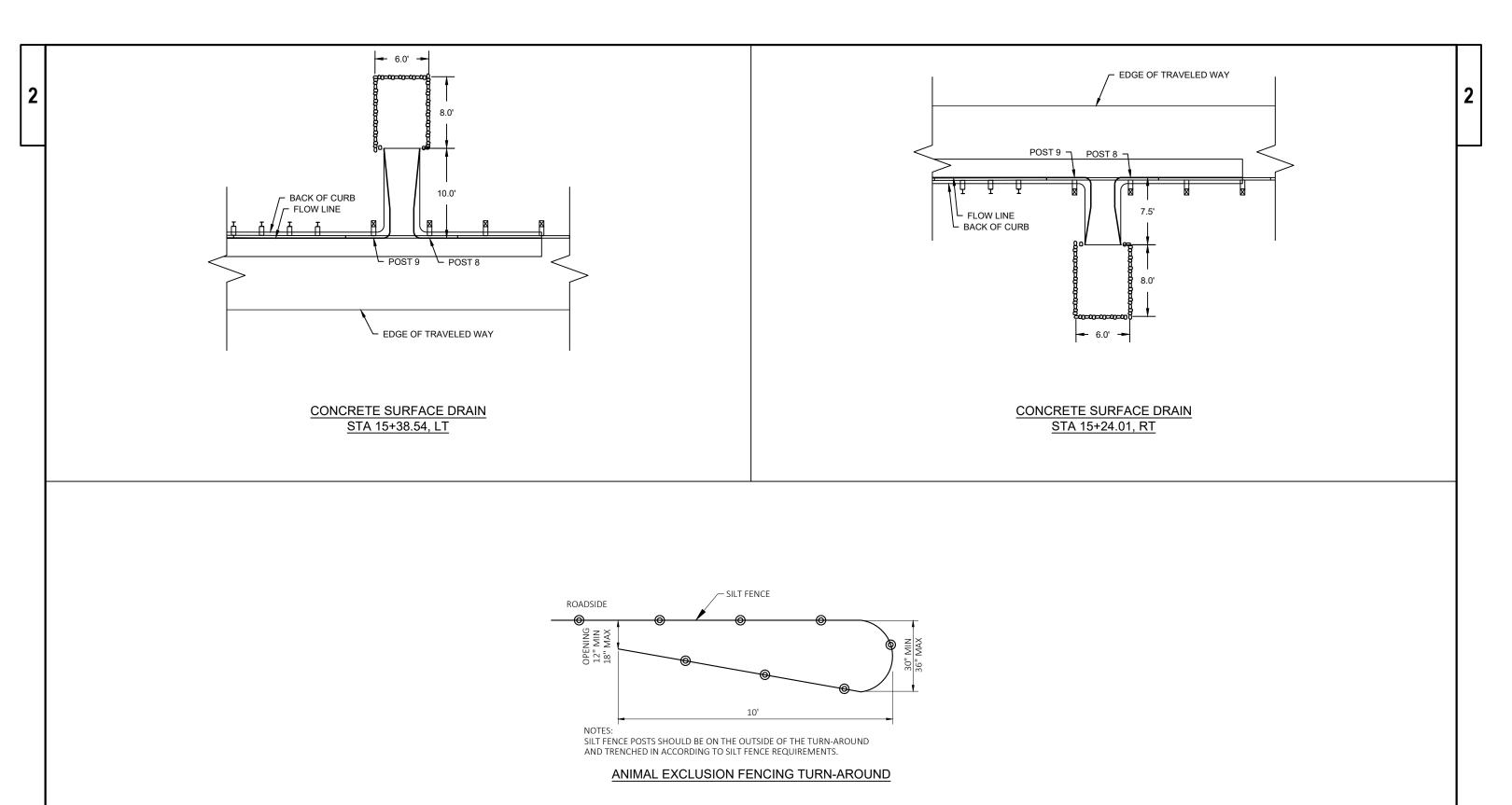
# FINISHED TYPICAL SECTION

STA 14+88 - STA 15+54

PROJECT NO: 3745-05-70 HWY: CTH WG COUNTY: KENOSHA

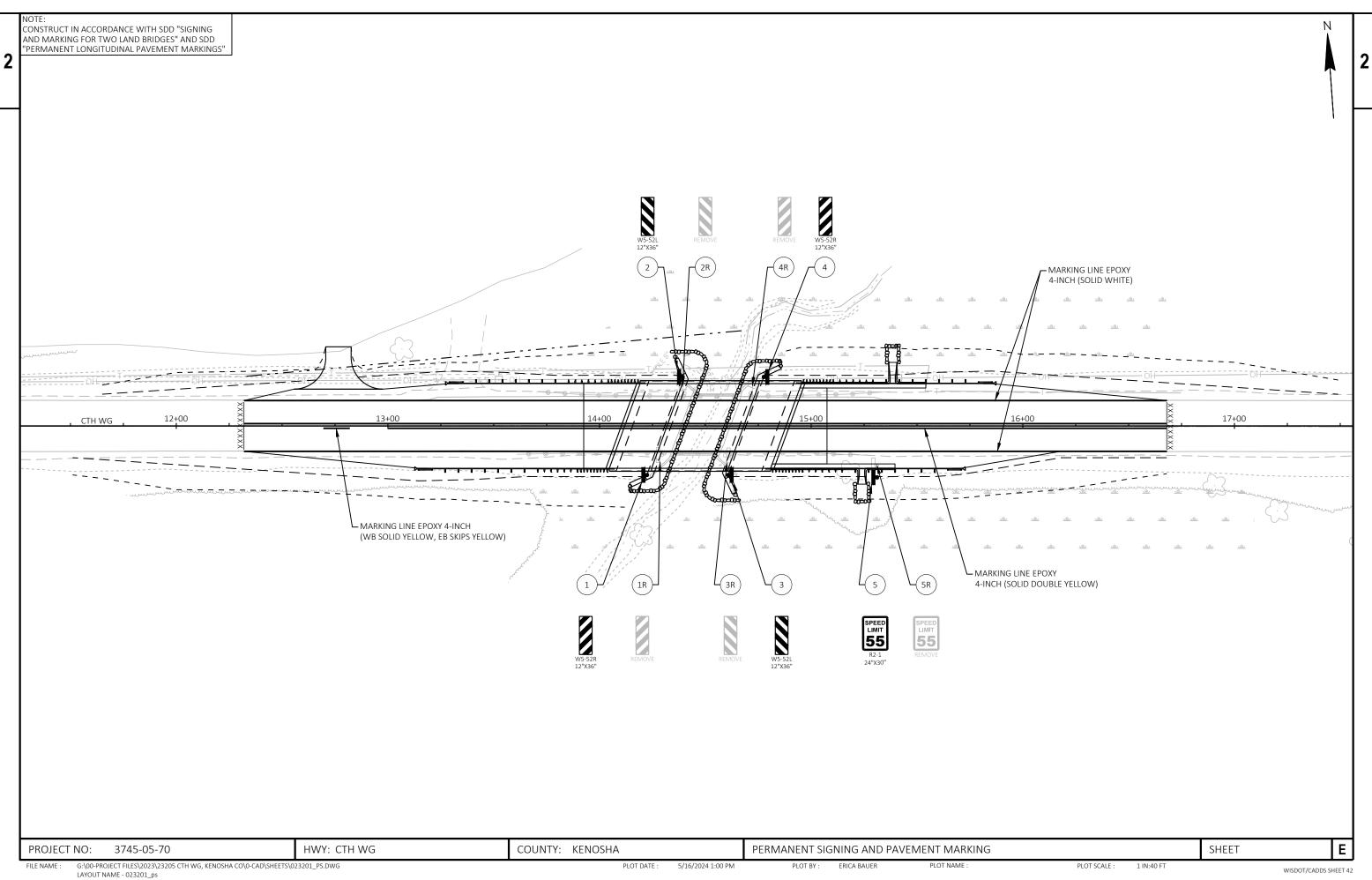
FILE NAME: S(300-PROJECT FILES\2023\232505 CTH WG, KENOSHA CO\0-CAD\SHEETS\\0223\0325 CTH WG, KENOSHA CO\0-CAD\SHEET\\0223\0325 CTH WG, KENOSHA CO\0-CAD\SHE

LAYOUT NAME - 020302\_ts



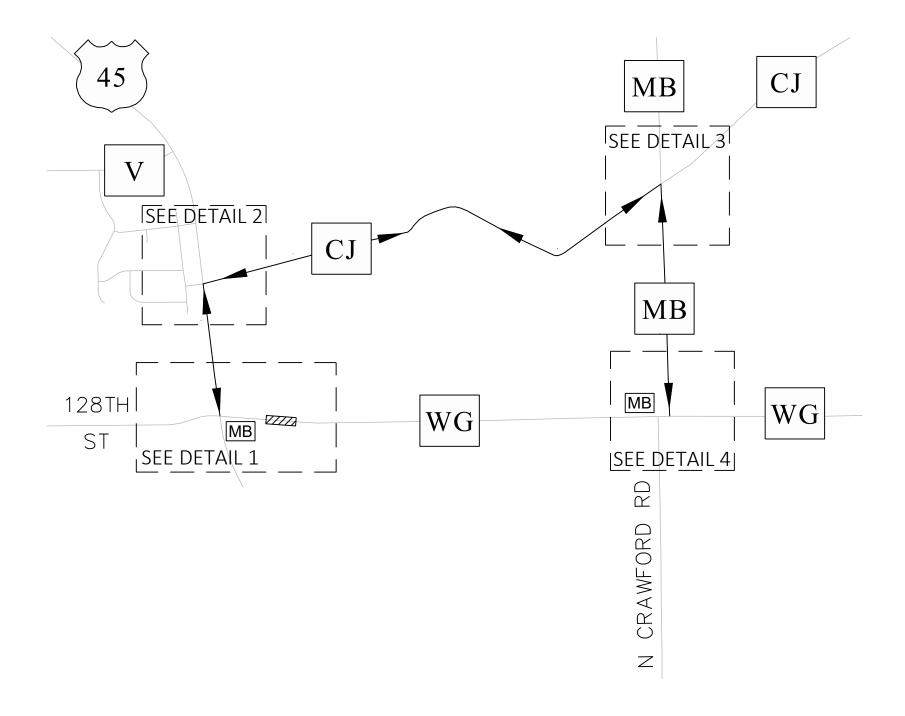
Ε PROJECT NO: 3745-05-70 HWY: CTH WG COUNTY: KENOSHA CONSTRUCTION DETAILS SHEET G:\00-PROJECT FILES\2023\23205 CTH WG, KENOSHA CO\0-CAD\SHEETS\021002\_CD.DWG PLOT DATE : 5/10/2024 7:44 AM PLOT BY: ERICA BAUER PLOT SCALE :

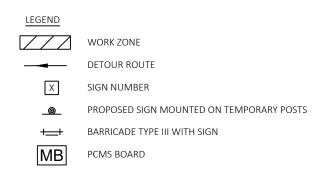
LAYOUT NAME - 021002\_cd



WISDOT/CADDS SHEET 42







#### NOTES

- ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WISDOT SDD 15C2 "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION".
- EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS, UNLESS OTHERWISE PROVIDED IN THE PLAN.
- SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM 'TRAFFIC CONTROL COVERING SIGNS'.
- USE SIGN SIZE 3 ON FREEWAY, USE SIGN SIZE 2 ON LOCAL HIGHWAYS AND RAMPS.
- IF THERE ARE EXISTING ROUTE MARKERS THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR SIGNS TO CORRESPOND WITH EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE.

PROJECT NO: 3745-05-70 HWY: CTH WG COUNTY: KENOSHA

COUNTY: KENOSHA

DETOUR ROUTE

FILE NAME: G3700-PROJECT FILES\2023\232505 CTH WG, KENOSHA CO\0-CAD\SHEETS\027001\_DT.DWG

PLOT DATE: 7/9/2024 9:25 AM PLOT BY: ERICA BAUER PLOT NAME: 0.37001 dt WISDOT/CADDS SHEET 42

WISDOT/CADDS SHEET 42

LAYOUT NAME - 027001\_dt

NOTES

**DETOUR ROUTE** 

SIGN NUMBER PROPOSED SIGN MOUNTED ON TEMPORARY POSTS

BARRICADE TYPE III WITH SIGN

COVER EXISTING SIGNS

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WISDOT SDD 15C2 "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION".

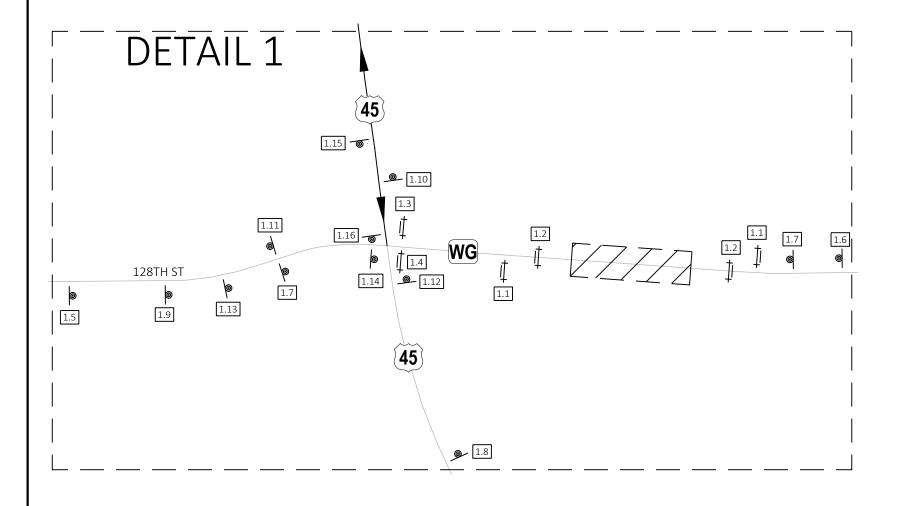
EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

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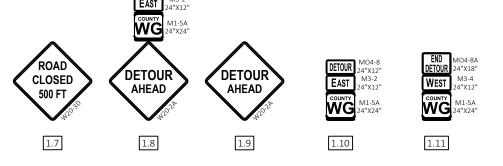
SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM 'TRAFFIC CONTROL COVERING SIGNS'.

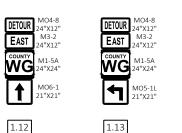
USE SIGN SIZE 3 ON FREEWAY, USE SIGN SIZE 2 ON LOCAL HIGHWAYS AND RAMPS.

IF THERE ARE EXISTING ROUTE MARKERS THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR SIGNS TO CORRESPOND WITH EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE.

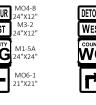














1.13 1.14

1.15

1.16

Ε SHEET

FILE NAME : G:\00-PROJECT FILES\2023\23205 CTH WG, KENOSHA CO\0-CAD\SHEETS\027001\_DT.DWG

3745-05-70

PROJECT NO:

COUNTY: KENOSHA

**DETOUR ROUTE** 

PLOT NAME :

PLOT SCALE :

WISDOT/CADDS SHEET 42

HWY: CTH WG

7/9/2024 9:25 AM

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WISDOT SDD 15C2 "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION".

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2.2



2.3



2.4



2.5



2.6















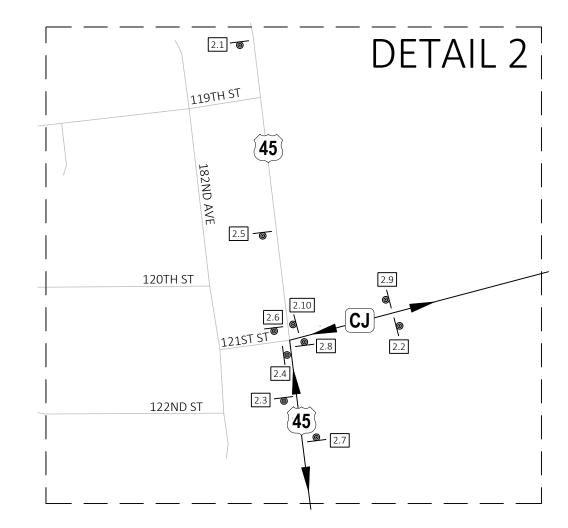
PLOT SCALE :

2.8

2.9

2.10

SHEET



FILE NAME :

3745-05-70

PROJECT NO:

HWY: CTH WG

COUNTY: KENOSHA

PLOT BY: ERICA BAUER

**DETOUR ROUTE** 

PLOT NAME :

1 IN:500 FT

WISDOT/CADDS SHEET 42

Ε

LEGEND

WORK ZONE

DETOUR ROUTE

SIGN NUMBER

BARRICADE TYPE III WITH SIGN

PROPOSED SIGN MOUNTED ON TEMPORARY POSTS

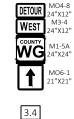


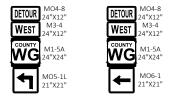
- ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WISDOT SDD 15C2 "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION".
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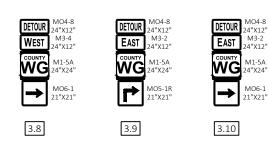












3.6

Ε PROJECT NO: 3745-05-70 HWY: CTH WG COUNTY: KENOSHA **DETOUR ROUTE** SHEET FILE NAME : 1 IN:500 FT

LEGEND

WORK ZONE

DETOUR ROUTE

SIGN NUMBER

BARRICADE TYPE III WITH SIGN

PROPOSED SIGN MOUNTED ON TEMPORARY POSTS

G:\00-PROJECT FILES\2023\23205 CTH WG, KENOSHA CO\0-CAD\SHEETS\027001\_DT.DWG

PLOT DATE : 7/9/2024 9:26 AM PLOT BY: ERICA BAUER

PLOT NAME :

3.5

PLOT SCALE :

3.7

DETAIL 4

WG

MB

4.9

N CRAWFORD RD

**\_@**\_ [4.7

**6** 4.3

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WISDOT SDD 15C2 "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION".

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS, UNLESS OTHERWISE PROVIDED IN THE PLAN.

SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM 'TRAFFIC CONTROL COVERING SIGNS'.

USE SIGN SIZE 3 ON FREEWAY, USE SIGN SIZE 2 ON LOCAL HIGHWAYS AND RAMPS.

IF THERE ARE EXISTING ROUTE MARKERS THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR SIGNS TO CORRESPOND WITH EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE.







4.2

4.3

4.4





4.6



4.5

BRIDGE OUT 11/2 MILES AHEAD

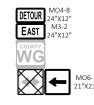
4.1

4.7









4.8

WG M1-5A

4.9

4.10

PROJECT NO: 3745-05-70 HWY: CTH WG COUNTY: KENOSHA **DETOUR ROUTE** FILE NAME :

WG

G:\00-PROJECT FILES\2023\23205 CTH WG, KENOSHA CO\0-CAD\SHEETS\027001\_DT.DWG PLOT DATE : PLOT BY: ERICA BAUER PLOT NAME : PLOT SCALE : 1 IN:500 FT 7/9/2024 9:26 AM WISDOT/CADDS SHEET 42

LEGEND

WORK ZONE

DETOUR ROUTE

SIGN NUMBER

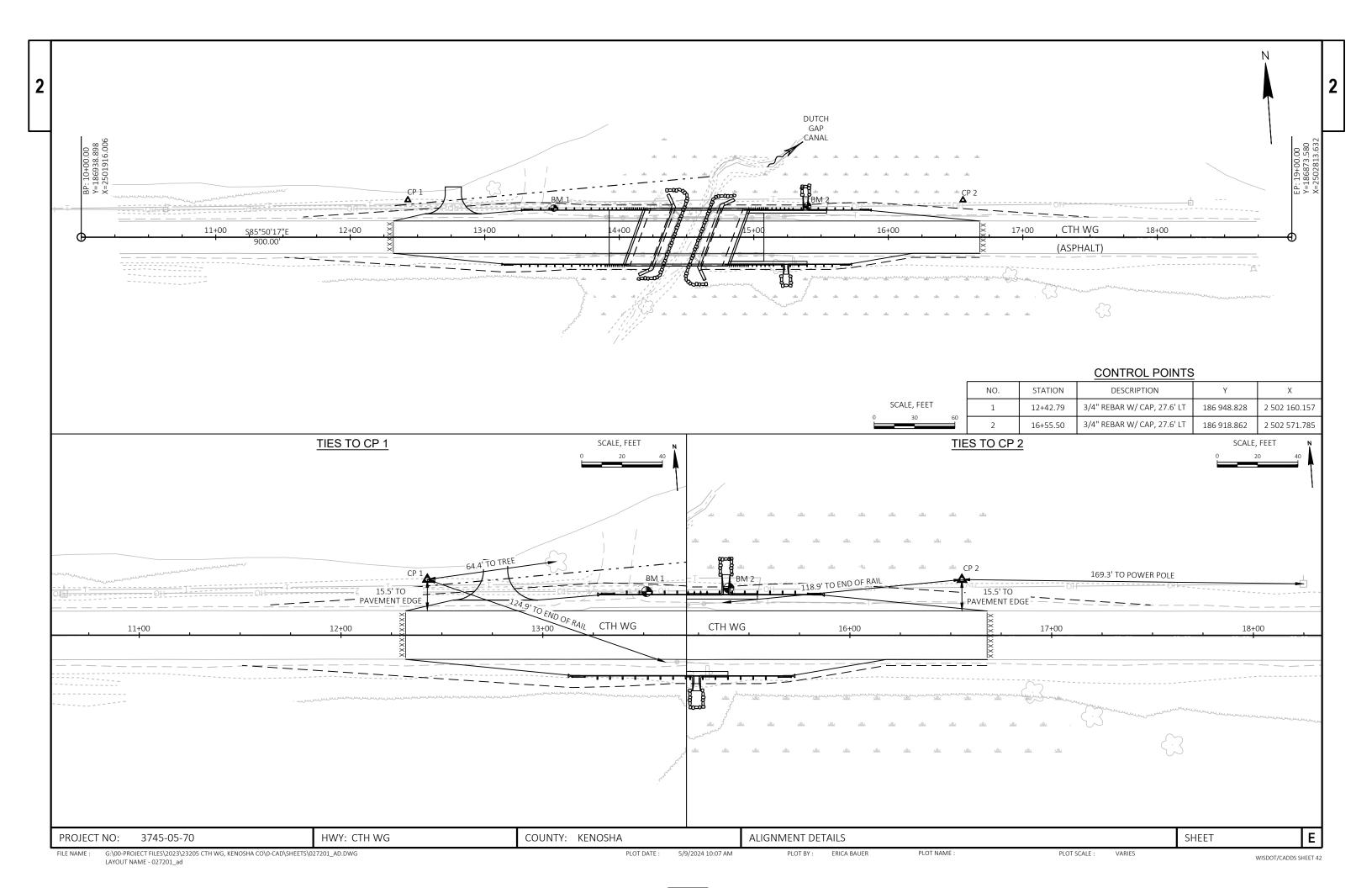
BARRICADE TYPE III WITH SIGN

COVER EXISTING SIGNS

PROPOSED SIGN MOUNTED ON TEMPORARY POSTS

Ε

SHEET



| 3 |

3745-05-70
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Line         Item         Item Description         Unit         Total         Qly           0002         201.0105         Clearing         STA         5.000         5.000           0004         201.0205         Chubbing         STA         5.000         5.000           0006         203.0250         Removing Structure Over Waterway Remove Debris (structure) 01. P-30-0910         EACH         1.000         1.000           0010         205.0100         Excavation Common         CY         62.000         220.000           0012         206.0101         Excavation Common         CY         45.000         22.000           0014         208.0100         Borrow         CY         31.000         11.000           0016         21.0150         Backfill Structure Type A         TON         20.000         20.000           0016         21.0150         Base Aggregate Dense 34.41-61-6         TON         1.000         1.000           0012         305.0120         Base Aggregate Dense 34.41-41-6         TON         1.750,000         1.750,000           0024         415.5014         Concrise Language Dense 41.41-1-6         TON         1.750,000         1.750,000           0024         415.2014         Concrise Language Den
00024         201.01055         Clearing         STA         5.000         5.000           0006         203.0250         Grubbing         STA         5.000         5.000           0006         203.0250         Removing Structure Over Waterway Remove Debris (structure) 01. P-30-0910         EACH         1.000         1.000           010         205.0105         Exacavation Common         CY         626.000         260.000           012         205.1001         Exacavation Common         CY         311.000         1.000           014         208.1001         Bornow         CY         311.000         1.000           014         208.1001         Bornow         CY         311.000         1.000           0101         210.1500         Baschill Structure Type A         TON         200.000         200.000           018         213.1500         Frishing Roadway (project) 01. 3745-05-70         EACH         1.000         1.000           0102         305.0110         Base Aggregate Dense 344-inch         TON         1.750.000         1.750.000         1.750.000         1.750.000         1.750.000         1.750.000         1.750.000         1.750.000         1.750.000         1.750.000         1.750.000         1.750.000         1.75
0004         201,0205         Gnubbing Ornowing Structure Over Waterway Remove Debris (structure) 01. P-30-0910         STA         5,000         5,000           0008         204,0165         Removing Guardral         LF         290,000         290,000         290,000           0010         205,0100         Excavation Common         CY         311,000         301,000           0012         206,1001         Excavation For Structures Bridges (structure) 01. B-30-0153         EACH         1,000         1,000           0016         20,1509         Backfill Structure Type A         TON         CY         311,000         311,000           0018         213,0100         Flinishing Roadway (project) 01. 3745-05-70         EACH         1,000         1,000           0020         305,0120         Base Aggregate Dense 31/4-Inch         TON         1,750,000         1,750,000           0022         455,0605         Tack Coat         GAL         88,000         88,000           0032         455,0605         Tack Coat         GAL         88,000         88,000           0034         502,210         Concrete Masonry Bridges         CY         310,000         348,000           0035         565,060         Sax Steel Reinforcement Hs Structures         LB         <
0006         203 0.250         Removing Structure Over Waterway Remove Debris (structure) 01. P-30-0910         EACH         1,000         1,000           0010         205 0100         Excavation Common         CY         628 000         628 000           0012         206 1001         Excavation Common         CY         628 000         262 600           0014         208 0100         Borrow         CY         311 000         311 000           0016         210,1500         Baschill Structure Type A         TON         200,000         200,000           0018         213,010         Finishing Roadway (project) 01. 3745-05-70         EACH         1,000         1,000           0020         305,0110         Base Aggregate Dense 31-Hach         TON         1,750,000         190,000           0022         305,0110         Base Aggregate Dense 11-Hach         TON         1,750,000         1760,000           0024         415,0410         Concrete Pavement Approach Slab         SY         184,000         164,000           0028         455,0515         Asphaltic Surface         TON         348,000         388,000           0036         50,010         Correte Masonry Bridges         CY         1,000         310,000           0037
0006         204 0166 Nemoving Guardral         LF         290 000         200 00           0101         205 1001         Excavation frommon         CY         625 000         625 000           0112         205 1001         Excavation for Structures Bridges (structure) 01.8-30-0153         EACH         1.000         1.000           0104         208.0101         Backfill Structure Type A         TON         20.000         311.000         10.00           0108         213.0100         Finishing Roadway (project) 01.3745-05-70         EACH         1.000         1.000           0022         305.0120         Base Aggregate Dense 11/4-Inch         TON         1.750,000         1750,000           0024         415.041         Concrete Pavement Approach Slab         SY         164,000         164,000           0026         465.0605         Tack Coat         GAL         88,000         88,000         88,000           0036         465.015         Asphalic Surface         TON         348,000         348,000           0036         456.0605         Tack Coat         GAL         88,800         88,000           0037         50.2300         Protective Surface Treatment         SY         76,000         76,000           0038
0101         205.0100         Excavation Common         CY         6.6.00         6.20.00           012         206.101         Excavation for Structures Bridges (structure) 01. B-30-0153         EACH         1.000         311.000           014         208.0100         Borrow         CY         311.000         311.000           016         210.1500         Basckfill Structure Type A         TON         200.000         100.000           018         213.010         Finishing Roadway (ropict) 01.3745-05-70         EACH         1.000         100.000           022         305.0110         Base Aggregate Dense 3/4-Inch         TON         1,750.000         190.000           024         415.0410         Concrete Pavement Approach Slab         SY         184.000         164.000           026         455.005         Tax Cott         GAL         88.000         388.000           028         455.0105         Asc Cott         GAL         88.000         388.000           020         502.2100         Protective Surface Treatment         SY         362.000         360.000           033         505.0600         Bax Cott         SY         180.00         360.000           034         502.3200         Protective Surface Ste
0012         206.1001         Excavation for Structures Bridges (structure) 01. B-30-0153         EACH         1.000         1.000           014         208.010         Berrow         CY         311.000         311.000           016         210.1500         Baskfill Structure Type A         TON         200.000         200.000           020         305.012         Base Aggregate Dense 3/4-Inch         TON         190.000         190.000           022         305.0120         Base Aggregate Dense 1/4-Inch         TON         1750.000         1750.000           024         415.041         Concrete Pavement Approach Slab         SY         164.000         184.000           028         455.0605         Tack Coat         GAL         88.000         38.000           038         506.000         Tack Coat         GAL         88.000         348.000           038         505.0005         Asphaltic Surface a Treatment         SY         360.00         348.000           0303         502.0100         Concrete Masonry Bridges         CY         310.000         348.000           034         502.3200         Protective Surface Treatment         SY         360.00         360.000           035         505.0400         Bar St
0014         208.0100         Borrow         CY         311.000         311.000           016         213.0100         Finishing Roadway (project) 01.3745-05-70         EACH         1.00         1.00           0020         305.0110         Base Aggregate Dense 3V4-Inch         TON         1.700         1.750.000           0022         305.0120         Base Aggregate Dense 3V4-Inch         TON         1.750.000         1.750.000           0024         415.0410         Concrete Pavement Approach Slab         SY         164.000         184.000           0026         455.0105         Asphaltic Surface         TON         348.000         88.000           0030         502.100         Concrete Masonry Bridges         CY         310.000         348.000           0031         502.210         Pigmented Surface Sealer         SY         362.000         362.000           0034         502.3210         Pigmented Surface Sealer         SY         76.000         362.000           0035         505.0000         Bar Steel Reinforcement HS Studuters         LB         45.790.000         362.000           0045         505.0000         Bar Steel Reinforcement HS Studuters         LB         45.790.000         362.000           0045
0016         210.1500         Backfill Structure Type A         TON         200.000         200.000           018         213.0100         Finishing Roadway (project) 01.3745-05-70         EACH         1.00         1.000           0020         305.0110         Base Aggregate Dense 344-Inch         TON         1.750.000         1.750.000           0024         415.0410         Concrete Peavement Approach Slab         SY         164.000         186.000           0026         455.0605         Tack Coat         GAL         88.000         388.000           0032         502.0100         Concrete Masonry Bridges         CY         310.000         310.000           0032         502.2000         Protective Surface Treatment         SY         76.000         76.000           0033         505.0400         Bar Steel Reinforcement HS Structures         LB         6.260.000         6.260.000           0040         505.0600         Bar Steel Reinforcement HS Studietures         LB         4.579.000         459.000           0040         505.0600         Bar Steel Reinforcement HS Studietures         LB         4.579.000         459.000           0040         505.0600         Bar Steel Reinforcement HS Studiets Structures         LB         4.579.000         459.0
0018         213.0100         Finishing Roadway (project) 01. 3745-05-70         EACH         1.000         100.00           0020         305.0110         Base Aggregate Dense 31/4-Inch         TON         1.750.000         1.750.000           0024         415.0410         Concrete Pavement Approach Slab         SY         164.000         185.000           0026         455.0450         Concrete Pavement Approach Slab         SY         164.000         348.000           0028         456.0105         Asphaltic Surface         TON         348.000         348.000           0030         502.0100         Concrete Masonry Bridges         CY         310.000         362.000           0034         502.3210         Protective Surface Treatment         SY         76.000         76.000           0036         505.000         Bar Steel Reinforcement HS Structures         LB         48.790.00         76.000           0038         505.0000         Bar Steel Reinforcement HS Stuctures 01.B-30-0153         LB         48.790.00         390.000           0040         505.0000         Bar Steel Reinforcement HS Stuctures 01.B-30-0153         LB         48.790.00         390.000           0041         505.0000         Burberized Membrane Waterproofing         SY         18.00
0020         305.0110         Base Aggregate Dense 34-Inch         TON         1,90.000         1,90.000           0024         415.0410         Concrete Pavement Approach Slab         SY         164.000         1,60.000           0026         455.0605         Tack Coat         GAL         88.000         88.000           0026         455.0605         Tack Coat         GAL         88.000         88.000           0030         502.0100         Concrete Masonny Bridges         CY         310.000         310.000           0032         502.3200         Potective Surface Treatment         SY         76.000         76.000           0036         503.000         Bar Steel Reinforcement HS Structures         LB         6,260.000         6,260.000           0038         505.0400         Bar Steel Reinforcement HS Coated Structures         LB         9,890.00         390.000           0040         505.0800         Bar Steel Reinforcement HS Stainless Structures 01.B-30-0153         LB         390.000         390.000           0042         516.050         Rubberized Membrane Waterprofing         SY         18.00         18.00           0044         520.8000         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         1,90.00         39.00
00224         305.0120         Base Aggregate Dense 1 1/4-Inch         TON         1,750.000         1,750.000         1,750.000         1,750.000         1,750.000         1,750.000         1,750.000         1,750.000         1,750.000         1,750.000         1,750.000         1,750.000         1,750.000         1,800.000
0026         415.0410         Concrete Pavement Approach Slab         SY         1164.000         184.000         184.000         38.000           0026         455.0655         Tack Coat         GAL         88.00         38.000           0028         465.015         Asphaltic Surface         CY         310.000         348.000           0032         502.010         Concrete Masonny Bridges         CY         310.000         336.200           0034         502.3210         Pigmented Surface Treatment         SY         76.000         76.000           0036         505.0400         Bar Steel Reinforcement HS Structures         LB         6.260.000         6.260.000           0040         505.0600         Bar Steel Reinforcement HS Stainters Structures         LB         390.000         390.000           0042         516.050         Rubberized Membrane Waterproffing         SY         18.00         390.000           0042         516.050         Concrete Collars for Pipe         EACH         2.00         2.00           0046         550.1100         Piling Steel HP 10-Inch X 42 Lb         LF         1.80         39.00           0050         60.11050         Concrete Cub & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         3.90         <
0268         455.0605         Tack Coat         GAL         88.00         348.000           027         465.0105         Asphaltic Surface         TON         348.000         348.000           0303         502.2100         Concrete Masonry Bridges         CY         310.000         3310.000           0324         502.3201         Protective Surface Treatment         SY         362.000         362.000           034         502.3201         Pigmented Surface Sealer         LB         6,260.000         76.000           036         505.0400         Bar Steel Reinforcement HS Structures         LB         4,5790.00         45,790.00           038         505.0600         Bar Steel Reinforcement HS Structures         LB         45,790.00         45,790.00           040         505.0800         Bar Steel Reinforcement HS Coated Structures         LB         390.000         390.000           040         505.0800         Rar Steel Reinforcement HS Coated Structures         LB         45,790.00         390.000           040         505.0800         Rar Steel Reinforcement HS Coated Structures         LB         45,790.00         390.000           040         505.0100         Pilling Steel HP I O-Inch X42 Lb         LF         18.00         18.000 </td
0028         455.0105         Asphaltic Surface         TON         348.000         348.000           0030         502.100         Concrete Masonry Bridges         CY         310.000         362.000           0034         502.3210         Protective Surface Treatment         SY         362.000         362.000           0036         505.000         Bar Steel Reinforcement HS Structures         LB         6,260.000         45,790.000           0040         505.0800         Bar Steel Reinforcement HS Structures         LB         45,790.000         380.000           0040         505.0800         Bar Steel Reinforcement HS Structures         LB         45,790.000         380.000           0041         516.0500         Ruberized Membrane Waterproofing         SY         18.000         18.000           0044         550.100         Piling Steel HP 10-Inch X 42 Lb         LF         1,800.00         18.000           0046         550.110         Piling Steel HP 10-Inch X 42 Lb         LF         1,800.00         39.000           0050         601.0590         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         39.00         39.000           052         602.010         Concrete Surface Drains         CY         1.00         1.40
0303         552,0100         Concrete Masonry Bridges         CY         310,000         310,000           032         502,3200         Protective Surface Treatment         SY         362,000         362,000           034         502,3210         Pigmented Surface Sealer         SY         76,000         76,000           036         505,0400         Bar Steel Reinforcement HS Structures         LB         6,260,000         45,790,000           0040         505,0800.         Bar Steel Reinforcement HS Stainless Structures 01.B-30-0153         LB         390,000         390,000           0042         516,0500         Rubberizzed Membrane Waterproofing         SY         18,000         18,000           0044         520,8000         Concrete Curb & Gutter Hinch Sloped 36-Inch Type TBT         LF         1,800,000         18,000           0055         601,0590         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         1,900         39,000           0050         601,0590         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         1,900         39,000           0054         606,0200         Riprap Medium         CY         1,000         1,000           0054         606,0200         Riprap Heavy         CY         1,000 </td
0032         502,3200         Protective Surface Treatment         SY         362,000         362,000           0034         502,210         Pigmented Surface Sealer         SY         76,000         76,000           0036         505,0400         Bar Steel Reinforcement HS Cructures         LB         6,260,000         45,790,000           0040         505,0600         Bar Steel Reinforcement HS Coated Structures         LB         45,790,000         45,790,000           0040         505,0600         Bar Steel Reinforcement HS Stainless Structures 01. B-30-0153         LB         39,000         390,000           0042         516,0500         Ruberized Membrane Waterproofing         SY         18,000         18,000           0044         520,8000         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         1,800,000         18,000           0048         601,0580         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         79,000         39,000           0052         601,0590         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         79,000         39,000           0054         606,0200         Riprap Heavy         CY         6,000         6,000           0055         612,050         Pipe Underdrain Wrapped 8-Inch </td
0036         502.3210         Pigmented Surface Sealer         SY         76.000         76.000           0036         505.0400         Bar Steel Reinforcement HS Structures         LB         45.790.000         6,260.000           0040         505.0800.5         Bar Steel Reinforcement HS Stainless Structures 01. B-30-0153         LB         390.000         390.000           0042         516.0500         Rubberized Membrane Waterproofing         SY         18.00         2.000           0044         520.8000         Concrete Cullars for Pipe         EACH         2.000         2.000           0046         550.1100         Piling Steel HP 10-Inch X 42 Lb         LF         1,800.000         7.000           0048         601.0580         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT         LF         7.900         7.900           0052         602.3010         Concrete Surface Drains         CY         1.400         1.400           0054         606.0200         Riprap Medium         CY         1.600         1.900           0054         606.2010         Riprap Heavy         CY         1.000         1.800           0056         612.0400         Pipe Underdrain Wrapped 6-Inch         LF         180.000         180.000
0036         505.0400         Bar Steel Reinforcement HS Structures         LB         6,260.000         6,260.000           0038         505.0600         Bar Steel Reinforcement HS Coated Structures         LB         45,790.000         45,790.000           0040         505.0600         Bar Steel Reinforcement HS Stainless Structures 01. B-30-0153         LB         39,000         300,000           0042         516.0500         Rubberized Membrane Waterproofing         SY         18.000         18.000           0044         520.8000         Concrete Collars for Pipe         EACH         2.000         2.000           0046         550.1100         Piling Steel HPI Ol-Inch X42 Lb         LF         1,800.00         1800.000           0050         601.0580         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         39.000         39.000           0052         602.3010         Concrete Surface Drains         CY         1.00         39.000           0052         606.2030         Riprap Medium         CY         1.00         1.00           0056         606.0300         Riprap Heavy         CY         100.00         100.000           0058         612.040e         Pipe Underdrain Wrapped 8-Inch         LF         180.00         180.000
0038         505.0600         Bar Steel Reinforcement HS Coated Structures 01. B-30-0153         LB         390.000         390.000           0040         505.0800.5         Bar Steel Reinforcement HS Stainless Structures 01. B-30-0153         LB         390.000         390.000           0042         516.0500         Rubberized Membrane Waterproofing         EACH         2.000         18.000           0044         520.8000         Concrete Collars for Pipe         EACH         2.000         2.000           0048         601.0588         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         79.000         79.000           0050         601.0590         Concrete Surface Drains         CY         1.00         1.000           0054         606.0200         Riprap Medium         CY         6.00         6.000           0056         606.0300         Riprap Medium         CY         1.00         100.000           0056         606.0300         Riprap Medium         CY         1.00         100.000           0056         612.0406         Pipe Underdrain Wrapped 8-Inch         LF         180.000         180.000           0062         612.0406         Pipe Underdrain Wrapped 8-Inch         LF         180.000         180.000 <t< td=""></t<>
0040         505,0800.S         Bar Steel Reinforcement HS Stainless Structures 01. B-30-0153         LB         390,000         390,000           0042         516,0500         Rubber/zed Membrane Waterproofing         SY         18,000         18,000           0044         520,8000         Concrete Collars for Pipe         EACH         2,000         2,000           0048         650,1100         Piling Steel HP 10-Inch X 42 Lb         LF         1,800,000         1,800,000           0050         601,0588         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         39,000         39,000           0052         602,3010         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         CY         1,400         1,400           0054         606,0200         Riprap Medium         CY         6,000         600           0056         606,0300         Riprap Heavy         CY         100,000         100,000           0058         612,0406         Pipe Underdrain Wrapped 8-Inch         LF         180,000         180,000           0062         612,0700         Drain Tile Exploration         LF         180,000         180,000           0064         614,050         Anchor Assemblies for Steel Plate Beam Guard         EACH         4,000
0042         \$16.050         Rubberized Membrane Waterprofing         SY         18.000         18.000           0044         \$20.8000         Concrete Collars for Pipe         EACH         2.000         2.000           0046         \$50.1100         Piling Steel HP 10-Inch X 42 Lb         LF         1.800,000         79.000           0050         601.0580         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         79.000         79.000           0052         602.3010         Concrete Surface Drains         CY         1.000         6.000           0054         606.0200         Riprap Medium         CY         6.000         6.000           0056         606.0300         Riprap Heavy         CY         100.000         100.000           0060         612.0406         Pipe Underdrain Wrapped 6-Inch         LF         180.000         180.000           0061         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         180.000         180.000           0062         612.0700         Drain Tile Exploration         LF         180.000         180.000           0064         614.0150         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0068         <
0044         520,8000         Concrete Collars for Pipe         EACH         2.000         2.000           0046         550,1100         Piling Steel HP 10-Inch X 42 Lb         LF         1,800,000         1,800,000           0048         601,0588         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT         LF         79,000         39,000           0050         601,0590         Concrete Surface Drains         CY         1,400         1,400           0054         606,0200         Riprap Medium         CY         16,000         60,000           0056         606,0300         Riprap Medium         CY         100,000         100,000           0056         606,0300         Riprap Medium         CY         100,000         100,000           0056         606,0300         Riprap Medium         CY         100,000         100,000           0056         60,0300         Riprap Medium         CY         100,000         100,000           0056         612,0406         Pipe Underdrain Wrapped 6-Inch         LF         180,000         300,000           0062         612,0700         Drain Tile Exploration         LF         180,000         400,000           0064         612,0500         MGS Startail Terminal EAT </td
0046         550.1100         Piling Steel HP 10-Inch X 42 Lb         LF         1,800.000         1,800.000           0048         601.0588         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT         LF         79.000         79.000           0050         601.0590         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT         LF         39.000         39.000           0052         602.3010         Concrete Surface Drains         CY         1.400         1.400           0054         606.0200         Riprap Medium         CY         6.000         6.000           0056         606.0300         Riprap Heavy         CY         10.000         100.000           0058         612.0408         Pipe Underdrain Wrapped 6-Inch         LF         180.000         180.000           0060         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         180.000         180.000           0061         612.0700         Drain Tile Exploration         LF         18.000         18.000           0064         612.0100         McS Thrie Beam Transition         LF         18.000         18.000           0066         614.2500         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0072
0048         601.0588         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF         79.000         79.000           0050         601.0590         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT         LF         39.000         39.000           0052         602.3010         Concrete Surface Drains         CY         1.400         1.400           0054         606.0200         Riprap Medium         CY         10.000         6.000           0056         606.0300         Riprap Heavy         CY         100.000         100.000           0058         612.0406         Pipe Underdrain Wrapped 6-Inch         LF         180.000         180.000           0060         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         180.000         180.000           0062         612.0700         Drain Tile Exploration         LF         180.000         180.000           0064         614.0150         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0066         614.2500         MGS Thrie Beam Transition         LF         157.600         157.600           0068         614.2501         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0
0050         601.0590         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT         LF         39.000         39.000           0052         602.3010         Concrete Surface Drains         CY         1.400         1.400           0054         606.0200         Riprap Medium         CY         6.000         6.000           0056         606.0300         Riprap Heavy         CY         100.000         100.000           0058         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         180.000         180.000           0060         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         18.000         18.000           0062         612.0700         Drain Tile Exploration         LF         18.000         18.000           0064         614.0150         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0066         614.2500         MGS Thrie Beam Transition         LF         157.600         157.600           0068         614.2610         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0070         618.0100         Mobilization         MGAL         16.700         15.000           0072         619.1000         <
0052         602.3010         Concrete Surface Drains         CY         1.400         1.400           0054         606.0200         Riprap Medium         CY         6.000         6.000           0056         606.0300         Riprap Heavy         CY         100.000         100.000           0058         612.0406         Pipe Underdrain Wrapped 6-Inch         LF         180.000         300.000           0060         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         18.000         180.000           0062         612.0700         Drain Tile Exploration         LF         18.000         18.000           0064         614.0510         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0066         614.2501         MGS Thrie Beam Transition         LF         157.600         157.600           0068         614.2501         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0070         618.0100         Mobilization         EACH         1.000         1.000           0072         619.1000         Mobilization         SY         810.000         16.700           0074         629.000         Salvaged Topsoil         SY
0054         606.0200         Riprap Medium         CY         6.000         6.000           0056         606.0300         Riprap Heavy         CY         100.000         100.000           0058         612.0406         Pipe Underdrain Wrapped 6-Inch         LF         180.000         180.000           0060         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         300.000         300.000           0062         612.0700         Drain Tile Exploration         LF         18.000         18.000           0064         614.0150         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0066         614.2500         MGS Thrie Beam Transition         LF         157.600         157.600           0068         614.2610         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0070         618.1000         Mobilization         EACH         1.000         1.000           0072         619.1000         Mobilization         MGAL         16.70         1.670           0074         624.010         Water         MGAL         16.70         1.510.00           0075         625.050         Salvaged Topsoil         SY
0056         606.0300         Riprap Heavy         CY         100.000         100.000           0058         612.0406         Pipe Underdrain Wrapped 6-Inch         LF         180.000         380.000           0060         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         300.000         300.000           0062         612.0700         Drain Tile Exploration         LF         18.000         18.000           0064         614.0150         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0066         614.2500         MGS Thrie Beam Transition         LF         157.600         157.600           0068         614.2610         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0070         618.0100         Mobilization         EACH         1.000         1.000           0072         619.1000         Mobilization         SY         810.000         16.700           0074         624.0100         Water         MGA         16.700         16.700           0078         628.1504         Silt Fence         LF         1,510.000         1,510.000           0080         628.1505         Silt Fence Maintenance         EACH
0056         606.0300         Riprap Heavy         CY         100.000         100.000           0058         612.0406         Pipe Underdrain Wrapped 6-Inch         LF         180.000         180.000           0060         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         300.000         300.000           0062         612.0700         Drain Tile Exploration         LF         18.000         18.000           0064         614.0150         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0066         614.2500         MGS Thrie Beam Transition         LF         157.600         157.600           0068         614.2610         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0070         618.0100         Mobilization         EACH         1.000         1.000           0072         619.1000         Mobilization         EACH         1.000         1.6700           0074         624.0100         Water         MGA         16.700         16.700           0076         625.0500         Salvaged Topsoil         SY         810.000         1510.000           0078         628.1504         Silt Fence         LF         <
0058         612.0406         Pipe Underdrain Wrapped 6-Inch         LF         180.000         180.000           0060         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         300.000         300.000           0062         612.0700         Drain Tile Exploration         LF         18.000         18.000           0064         614.0150         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0066         614.2500         MGS Thrie Beam Transition         LF         157.600         157.600           0068         614.2510         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0070         618.0100         Maintenance and Repair of Haul Roads (project) 01.3745-05-70         EACH         1.000         1.000           0072         619.1000         Mobilization         EACH         1.000         1.000           0074         624.0100         Water         MGAL         16.700         16.700           0076         625.0500         Salvaged Topsoil         SY         810.000         810.000           0078         628.1520         Silt Fence         LF         1,510.000         1,510.000           0080         628.1520
0060         612.0408         Pipe Underdrain Wrapped 8-Inch         LF         300.000         300.000           0062         612.0700         Drain Tile Exploration         LF         18.000         18.000           0064         614.0150         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0066         614.2500         MGS Thrie Beam Transition         LF         157.600         157.600           0070         618.0100         Maintenance and Repair of Haul Roads (project) 01. 3745-05-70         EACH         1.000         1.000           0072         619.1000         Mobilization         EACH         1.000         1.000           0074         624.0100         Water         MGAL         16.700         16.700           0076         625.0500         Salvaged Topsoil         SY         810.000         810.000           0078         628.1504         Silf Fence         LF         2,420.000         2,420.000           0080         628.1505         Silf Fence Maintenance         LF         2,420.000         2,420.000           0081         628.1905         Mobilizations Errosion Control         EACH         3.000         3.000           0084         628.2008
0062         612.0700         Drain Tile Exploration         LF         18.000         18.000           0064         614.0150         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0066         614.2500         MGS Thrie Beam Transition         LF         157.600         157.600           0068         614.2610         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0070         618.1000         Mointenance and Repair of Haul Roads (project) 01.3745-05-70         EACH         1.000         1.000           0072         619.1000         Mobilization         EACH         1.000         1.000           0074         624.0100         Water         MGAL         16.700         16.700           0076         625.0500         Salvaged Topsoil         SY         810.000         810.000           0078         628.1504         Silf Fence         LF         1,510.000         1,510.000           0080         628.1505         Silf Fence Maintenance         LF         2,420.000         2,420.000           0081         628.1905         Mobilizations Erosion Control         EACH         3.00         3.00           0084         628.2008         Erosi
0064         614.0150         Anchor Assemblies for Steel Plate Beam Guard         EACH         4.000         4.000           0066         614.2500         MGS Thrie Beam Transition         LF         157.600         157.600           0068         614.2610         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0070         618.0100         Maintenance and Repair of Haul Roads (project) 01. 3745-05-70         EACH         1.000         1.000           0072         619.1000         Mobilization         EACH         1.000         1.000           0074         624.0100         Water         MGAL         16.700         16.700           0076         625.0500         Salvaged Topsoil         SY         810.000         810.000           0078         628.1504         Silt Fence         LF         1,510.000         1,510.000           0080         628.1520         Silt Fence Maintenance         LF         2,420.000         2,420.000           0081         628.1905         Mobilizations Ernergency Erosion Control         EACH         3.00         3.000           0084         628.1910         Mobilizations Emergency Erosion Control         EACH         2.00         2.000           0084         62
0066         614.2500         MGS Thrie Beam Transition         LF         157.600         157.600           0068         614.2610         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0070         618.0100         Maintenance and Repair of Haul Roads (project) 01. 3745-05-70         EACH         1.000         1.000           0072         619.1000         Mobilization         EACH         1.000         1.000           0074         624.0100         Water         MGAL         16.700         16.700           0076         625.0500         Salvaged Topsoil         SY         810.000         810.000           0078         628.1504         Silt Fence         LF         1,510.000         1,510.000           0080         628.1520         Silt Fence Maintenance         LF         2,420.000         2,420.000           0081         628.1905         Mobilizations Erosion Control         EACH         3.000         3.000           0084         628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           0088         628.2008         Erosion Mat Urban Class I Type B         SY         810.000         810.000           0089         629.0210
0068         614.2610         MGS Guardrail Terminal EAT         EACH         4.000         4.000           0070         618.0100         Maintenance and Repair of Haul Roads (project) 01.3745-05-70         EACH         1.000         1.000           0072         619.1000         Mobilization         EACH         1.000         1.000           0074         624.0100         Water         MGAL         16.700         16.700           0076         625.0500         Salvaged Topsoil         SY         810.000         810.000           0078         628.1504         Silt Fence         LF         1,510.000         1,510.000           0080         628.1520         Silt Fence Maintenance         LF         2,420.000         2,420.000           0081         628.1905         Mobilizations Erosion Control         EACH         3.000         3.000           0084         628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           0086         628.2008         Erosion Mat Urban Class I Type B         SY         810.000         810.000           0087         629.0210         Fertilizer Type B         CWT         1.300         1.300           0092         630.0130         Seeding
0070       618.0100       Maintenance and Repair of Haul Roads (project) 01. 3745-05-70       EACH       1.000       1.000         0072       619.1000       Mobilization       EACH       1.000       1.000         0074       624.0100       Water       MGAL       16.700       16.700         0076       625.0500       Salvaged Topsoil       SY       810.000       810.000         0078       628.1504       Silt Fence       LF       1,510.000       1,510.000         0080       628.1520       Silt Fence Maintenance       LF       2,420.000       2,420.000         0082       628.1905       Mobilizations Erosion Control       EACH       3.000       3.000         0084       628.1910       Mobilizations Emergency Erosion Control       EACH       2.000       2.000         0086       628.2008       Erosion Mat Urban Class I Type B       SY       810.000       810.000         0088       628.6005       Turbidity Barriers       SY       180.000       180.000         0090       629.0210       Fertilizer Type B       CWT       1.300       1.300         0092       630.0130       Seeding Mixture No. 30       LB       35.000       50.000         0096       6
0072         619.1000         Mobilization         EACH         1.000         1.000           0074         624.0100         Water         MGAL         16.700         16.700           0076         625.0500         Salvaged Topsoil         SY         810.000         810.000           0078         628.1504         Silt Fence         LF         1,510.000         1,510.000           0080         628.1520         Silt Fence Maintenance         LF         2,420.000         2,420.000           0082         628.1905         Mobilizations Errosion Control         EACH         3.000         3.000           0084         628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           0086         628.2008         Erosion Mat Urban Class I Type B         SY         810.000         810.000           0088         628.6005         Turbidity Barriers         SY         180.000         180.000           0090         629.0210         Fertilizer Type B         CWT         1.300         1.300           0092         630.0130         Seeding Mixture No. 30         LB         35.000         35.000           0094         630.0200         Seeding Temporary         LB
0074       624.0100       Water       MGAL       16.700       16.700         0076       625.0500       Salvaged Topsoil       SY       810.000       810.000         0078       628.1504       Silt Fence       LF       1,510.000       1,510.000         0080       628.1520       Silt Fence Maintenance       LF       2,420.000       2,420.000         0082       628.1905       Mobilizations Erosion Control       EACH       3.000       3.000         0084       628.1910       Mobilizations Emergency Erosion Control       EACH       2.000       2.000         0086       628.2008       Erosion Mat Urban Class I Type B       SY       810.000       810.000         0088       628.6005       Turbidity Barriers       SY       180.000       180.000         0090       629.0210       Fertilizer Type B       CWT       1.300       1.300         0092       630.0130       Seeding Mixture No. 30       LB       35.000       35.000         0094       630.0200       Seeding Temporary       LB       50.000       50.000         0096       630.0500       Seed Water       MGAL       32.000       32.000
0076         625.0500         Salvaged Topsoil         SY         810.000         810.000           0078         628.1504         Silt Fence         LF         1,510.000         1,510.000           0080         628.1520         Silt Fence Maintenance         LF         2,420.000         2,420.000           0082         628.1905         Mobilizations Erosion Control         EACH         3.000         3.000           0084         628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           0086         628.2008         Erosion Mat Urban Class I Type B         SY         810.000         810.000           0088         628.6005         Turbidity Barriers         SY         180.000         180.000           0090         629.0210         Fertilizer Type B         CWT         1.300         1.300           0092         630.0130         Seeding Mixture No. 30         LB         35.000         35.000           0094         630.0200         Seeding Temporary         LB         50.000         50.000           0096         630.0500         Seed Water         MGAL         32.000         32.000
0078         628.1504         Silt Fence         LF         1,510.000         1,510.000           0080         628.1520         Silt Fence Maintenance         LF         2,420.000         2,420.000           0082         628.1905         Mobilizations Erosion Control         EACH         3.000         3.000           0084         628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           0086         628.2008         Erosion Mat Urban Class I Type B         SY         810.000         810.000           0088         628.6005         Turbidity Barriers         SY         180.000         180.000           0090         629.0210         Fertilizer Type B         CWT         1.300         1.300           0092         630.0130         Seeding Mixture No. 30         LB         35.000         35.000           0094         630.0200         Seeding Temporary         LB         50.000         50.000           0096         630.0500         Seed Water         MGAL         32.000         32.000
0080         628.1520         Silt Fence Maintenance         LF         2,420.000         2,420.000           0082         628.1905         Mobilizations Erosion Control         EACH         3.000         3.000           0084         628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           0086         628.2008         Erosion Mat Urban Class I Type B         SY         810.000         810.000           0088         628.6005         Turbidity Barriers         SY         180.000         180.000           0090         629.0210         Fertilizer Type B         CWT         1.300         1.300           0092         630.0130         Seeding Mixture No. 30         LB         35.000         35.000           0094         630.0200         Seeding Temporary         LB         50.000         50.000           0096         630.0500         Seed Water         MGAL         32.000         32.000
0082         628.1905         Mobilizations Erosion Control         EACH         3.000         3.000           0084         628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           0086         628.2008         Erosion Mat Urban Class I Type B         SY         810.000         810.000           0088         628.6005         Turbidity Barriers         SY         180.000         180.000           0090         629.0210         Fertilizer Type B         CWT         1.300         1.300           0092         630.0130         Seeding Mixture No. 30         LB         35.000         35.000           0094         630.0200         Seeding Temporary         LB         50.000         50.000           0096         630.0500         Seed Water         MGAL         32.000         32.000
0084         628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           0086         628.2008         Erosion Mat Urban Class I Type B         SY         810.000         810.000           0088         628.6005         Turbidity Barriers         SY         180.000         180.000           0090         629.0210         Fertilizer Type B         CWT         1.300         1.300           0092         630.0130         Seeding Mixture No. 30         LB         35.000         35.000           0094         630.0200         Seeding Temporary         LB         50.000         50.000           0096         630.0500         Seed Water         MGAL         32.000         32.000
0086         628.2008         Erosion Mat Urban Class I Type B         SY         810.000         810.000           0088         628.6005         Turbidity Barriers         SY         180.000         180.000           0090         629.0210         Fertilizer Type B         CWT         1.300         1.300           0092         630.0130         Seeding Mixture No. 30         LB         35.000         35.000           0094         630.0200         Seeding Temporary         LB         50.000         50.000           0096         630.0500         Seed Water         MGAL         32.000         32.000
0088       628.6005       Turbidity Barriers       SY       180.000       180.000         0090       629.0210       Fertilizer Type B       CWT       1.300       1.300         0092       630.0130       Seeding Mixture No. 30       LB       35.000       35.000         0094       630.0200       Seeding Temporary       LB       50.000       50.000         0096       630.0500       Seed Water       MGAL       32.000       32.000
0090       629.0210       Fertilizer Type B       CWT       1.300       1.300         0092       630.0130       Seeding Mixture No. 30       LB       35.000       35.000         0094       630.0200       Seeding Temporary       LB       50.000       50.000         0096       630.0500       Seed Water       MGAL       32.000       32.000
0092         630.0130         Seeding Mixture No. 30         LB         35.000         35.000           0094         630.0200         Seeding Temporary         LB         50.000         50.000           0096         630.0500         Seed Water         MGAL         32.000         32.000
0094         630.0200         Seeding Temporary         LB         50.000         50.000           0096         630.0500         Seed Water         MGAL         32.000         32.000
0096 630.0500 Seed Water MGAL 32.000 32.000
0098 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000

3745-05-70

					00 00 .0
Line	Item	Item Description	Unit	Total	Qty
100	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	1.000	1.000
102	637.2210	Signs Type II Reflective H	SF	5.000	5.000
104	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0106	638.2602	Removing Signs Type II	EACH	5.000	5.000
0108	638.3000	Removing Small Sign Supports	EACH	5.000	5.000
0110	642.5001	Field Office Type B	EACH	1.000	1.000
0112	643.0420	Traffic Control Barricades Type III	DAY	1,738.000	1,738.000
0114	643.0705	Traffic Control Warning Lights Type A	DAY	3,476.000	3,476.000
0116	643.0900	Traffic Control Signs	DAY	15,010.000	15,010.000
0118	643.0920	Traffic Control Covering Signs Type II	EACH	4.000	4.000
0120	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0122	643.5000	Traffic Control	EACH	1.000	1.000
0124	645.0111	Geotextile Type DF Schedule A	SY	96.000	96.000
0126	645.0120	Geotextile Type HR	SY	216.000	216.000
0128	646.1020	Marking Line Epoxy 4-Inch	LF	1,689.000	1,689.000
0130	650.4500	Construction Staking Subgrade	LF	562.000	562.000
0132	650.5000	Construction Staking Base	LF	562.000	562.000
0134	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	118.000	118.000
0136	650.6501	Construction Staking Structure Layout (structure) 01. B-30-0153	EACH	1.000	1.000
0138	650.7000	Construction Staking Concrete Pavement	LF	40.000	40.000
0140	650.9911	Construction Staking Supplemental Control (project) 01. 3745-05-70	EACH	1.000	1.000
0142	650.9920	Construction Staking Slope Stakes	LF	562.000	562.000
0144	690.0150	Sawing Asphalt	LF	48.000	48.000
0146	715.0502	Incentive Strength Concrete Structures	DOL	1,860.000	1,860.000
0148	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0150	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 14+50	EACH	1.000	1.000
0152	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	350.000	350.000
0154	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	900.000	900.000
0156	SPV.0060	Special 01. Verify Landmark Reference Monuments	EACH	1.000	1.000
0158	SPV.0060	Special 02. Landmark Reference Monuments Special	EACH	1.000	1.000
0160	SPV.0070	Special 01. Sprayed Asphaltic Shoulder Treatment	GAL	190.000	190.000
0162	SPV.0195	Special 01. Select Crushed Material For Travel Corridor	TON	20.000	20.000

ALL ITEMS CATEGORY 0010 UNLESS NOTED OTHERWISE

	CLEARING AND GRU	BBING				205.0100				EXPANDED FIL	L		
		201.0105	201.0205		FROM/TO	EXCAVATION COMMON CUT	SALVAGED/UNUSABLE	AVAILABLE MATERIAL	UNEXPANDED	(3) FACTOR	MASS ORDINATE +/-	WASTE	208.0100
		CLEARING	GRUBBING	DIVIS	ION STATION	(1)	PAVEMENT MATERIAL	/ <del>-</del> \	FILL	1.25	(4)	(5)	BORROW
STATION TO STATION	LOCATION	STA	STA	DIVISION 1		•					•		
	WEST 4 DDD 0 4 GU DT			WEST APPROA	CH 11+51 - 14+3	2 324	164	160	231	289	-129	0	129
12+00 - 14+00	WEST APPROACH, RT	2	2	DIVISION 1 S	SUBTOTAL	324	164	160	231	289	-129	0	129
14+00 - 17+00	EAST APPROACH, RT	3	3										
	TOTAL	5	5	DIVISION 2									
				EAST APPROAC	H 14+90 - 17+4	9 302	138	164	277	346	-182	0	182
				DIVISION 2.5	SUBTOTAL	302	138	164	277	346	-182	0	182
	REMOVING GUARE	DRAIL		GRAND	TOTAL	626	302	324	508	635	-311	0	311

#### NOTES:

- (1) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (2) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (3) EXPANDED FILL = UNEXPANDED FILL \* FILL FACTOR
- (4) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS
- INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- (5) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

4			
BASE AGGREGATE			
305.0110 305.0120 624.0100 BASE AGGREGATE BASE AGGREGATE	SPV.0070.01 CONCRETE PAVEMENT SPRAYED ASPHALTIC	NT APPROACH SLAB	ASPHALTIC SURFACE
DENSE DENSE 3/4-INCH 1 1/4-INCH WATER	SHOULDER TREATMENT	415.0410	455.0605 465.0105 ASPHALTIC
STATION TO STATION LOCATION TON TON MGAL	GAL STATION TO STATION	LOCATION SY STATION TO STATION	TACK COAT SURFACE LOCATION GAL TON
11+51 - 14+32 WEST APPROACH 105 770 8.8 14+90 - 17+49 EAST APPROACH 85 690 7.8 DRIVEWAY 10 0.1 TOTAL 190 1,470* 16.7		VEST APPROACH     86       FAST APPROACH     78       TOTAL     164       12+32     - 13+93       15+07     - 16+68	WEST APPROACH 46 181 EAST APPROACH 42 167 TOTAL 88 348
* ADDITIONAL QUANTITY ELSEWHERE IN PLAN.	190.0		
CURB AND GUTTER			
601.0588 601.0590	650 5500		RIPRAP AND GEOTEXTILE

				001.0300	001.0330	030.3300
				CONCRETE CURB &	CONCRETE CURB &	CONSTRUCTION
				GUTTER 4-INCH	GUTTER 4-INCH	STAKING CURB
				SLOPED 36-INCH	SLOPED 36-INCH	GUTTER AND CURB &
				TYPE TBT	TYPE TBTT	GUTTER
STATION	TO	STATION	LOCATION	LF	LF	LF
14+81	-	15+08	EAST APPROACH, RT		27	27
14+95	-	15+07	EAST APPROACH, LT		12	12
15+08	-	15+40	EAST APPROACH, RT	32		32
15+07	-	15+54	EAST APPROACH, LT	47		47
			TOTAL	79	39	118

#### CONCRETE SURFACE DRAINS

STATION	LOCATION	602.3010 CY
15+24 15+39	EAST APPROACH, RT EAST APPROACH, LT TOTAL	0.6 0.8 1.4

#### RIPRAP AND GEOTEXTILE

STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
0.7.11011	200/11/01/		<u> </u>
15+24	EAST APPROACH, RT	3	6
15+39	EAST APPROACH, LT	3	6
	TOTAL	6 <b>*</b>	12 <b>*</b>

#### \* ADDITIONAL QUANTITY ELSEWHERE IN PLAN.

#### DRAIN TILES

204.0165

73

74

72

290

LOCATION

WEST APPROACH, RT

WEST APPROACH, LT

EAST APPROACH, RT

EAST APPROACH, LT

TOTAL

520.8000	612.0408	612.0700
CONCRETE COLLARS	WRAPPED	DRAIN TILE
FOR PIPE	8-INCH	EXPLORATION
EACH	LF	<u>L</u> F
2	240	18
	60	
2	300	18
	CONCRETE COLLARS FOR PIPE EACH	CONCRETE COLLARS FOR PIPE EACH  2 2 40 60

#### GUARDRAIL

				614.2500	614.2610
				MGS THRIE BEAM	MGS GUARDRAIL
				TRANSITION	TERMINAL EAT
STATION	TO	STATION	LOCATION	LF	EACH
13+14.58	-	14+07.10	WEST APPROACH, RT	39.40	1
13+29.14	-	14+21.66	WEST APPROACH, LT	39.40	1
14+78.34	-	15+70.86	EAST APPROACH, RT	39.40	1
14+92.90	-	15+85.42	EAST APPROACH, LT	39.40	1
			TOTAL	157.60	4

PROJECT NO: 3745-05-70 HWY: CTH WG COUNTY: KENOSHA MISCELLANEOUS QUANTITIES SHEET

STATION TO STATION

13+60 - 14+34

13+70 - 14+44

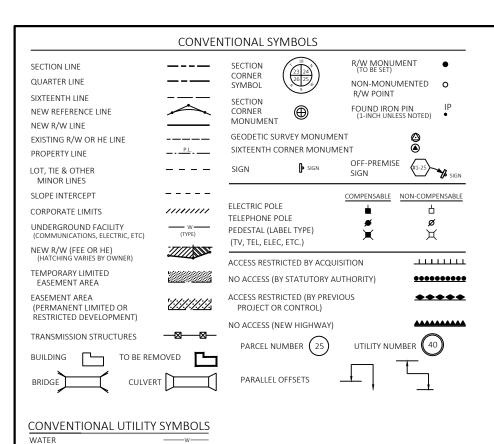
14+56 - 15+28

14+66 - 15+37

Ε

11+65 - 14 14+68 - 16 14+68 - 17  MOBILIZATION EROSION COM 628.1905	14+32 WEST APPROACH, RT 14+32 WEST APPROACH, LT 16+68 EAST APPROACH, RT 17+49 EAST APPROACH, LT UNDISTRIBUTED TOTAL	LOCATION  WEST APPROACH EAST APPROACH UNDISTRIBUTED	629.0210 BAN FERTILIZER TYPE B CWT  0.3 0.2 0.2 0.2 0.3 1.3	630.0130 SEEDING MIXTURE NO. 30 LB   8 6 6 8 7 35   STATION LOCATION  14+22 RT 14+29 RT 14+39 LT	SEEDING TEMPORARY V LB N  12 9 9 12 8 50  SIGN NUMBER	PC 4X6-	634.0612 DSTS WOOD I-INCH X 12-FT EACH		TATION TO STATION  11+48 - 14+26  11+61 - 14+6  14+38 - 16+7  14+74 - 17+5  ENT SIGNING  637.2210  SIGNS TYPE II  REFLECTIVE H  SF	ON LOCA 6 WEST APPR 4 WEST APPR 3 EAST APPR	ROACH, RT 300 ROACH, LT 350 ROACH, RT 260 ROACH, LT 300 RIBUTED 300 TAL 1,510	SILT FEN	ICE ANCE
628.1905  MOBILIZATIONS EME EROSION CONTROL LOCATION EACH  PROJECT 3	628.1910 MOBILIZATIONS MERGENCY EROSION CONTROL	LOCATION  WEST APPROACH EAST APPROACH UNDISTRIBUTED	28.6005 SY 76	14+22 RT 14+29 RT	1	PC 4X6- SIGN CODE	OSTS WOOD i-INCH X 12-FT	634.0616 POSTS WOOD 4X6-INCH X 16-FT	637.2210 SIGNS TYPE II REFLECTIVE H	SIGNS TYPE II REFLECTIVE F	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN SUPPORTS	REMARKS
MOBILIZATIONS EME EROSION CONTROL LOCATION EACH  PROJECT 3	MOBILIZATIONS MERGENCY EROSION CONTROL	LOCATION  WEST APPROACH EAST APPROACH UNDISTRIBUTED	28.6005 SY 76	14+22 RT 14+29 RT	1		EACH	EACH	SF	SF	EACH	EACH	REMARKS
			180	14+41 LT 14+59 RT 14+61 RT 14+71 LT 14+78 LT 15+31 RT	1R 2 2R 3R 3 4R 4 5R 5	W5-52L W5-52L W5-52R R2-1 TOTAL	1  1  1  1  4	     1	     5 5	3  3  3  3  12	1 1 1 1 1  1  1	1  1 1 1  1  1	BRIDGE HASH M BRIDGE HASH M SPEED LIMIT SPEED LIMIT
DURATION DAY TRAFFIC CO BARRICADE (NO.)  CLOSURE 79 16 DETOUR 79 2 UNDISTRIBUTED 4 PROJECT 7 TOTAL 22	.0420 643.0705  TRAFFIC CONTROL CONTROL WARNING LIGHTS DES TYPE III TYPE A		643.0920  AFFIC CONTROL DVERING SIGNS TYPE II EACH  2 2 2 4	643.1050  TRAFFIC CONTROL SIGNS PCMS (NO.) (DAY)  2 14 2 14	643.5000  TRAFFIC CONTROL EACH  1		12 12 12	ATION TO STATION 2+32 - 16+68 2+32 - 16+68 2+32 - 13+00 3+00 - 16+68		046.1020 LF 436 436 81 736 1,689		LINE LINE SKIPS	
	CONSTRUSTAKING SULOCATION LF  WEST APPROACH 28 EAST APPROACH 28 PROJECT TOTAL 56	JCTION CONSTRUCTION JBGRADE STAKING BASE LF  1 281 1 281	650.6501.01  CONSTRUCTION STAKING STRUCTURI LAYOUT (STRUCTURI 01. B-30-0153 EACH  1 1**	re staking	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT 01. 3745-05-70 EACH 1 1	CONSTRUCTION STAKING SLOPE STAKES LF  281 281 562			1		OCATION         I           T APPROACH         2           T APPROACH         2	0150 _F _24 _24 	

G:\00-PROJECT FILES\2023\232 LAYOUT NAME - 030202\_mq



#### CONVENTIONAL ABBREVIATIONS

TELEPHONE

FIBER OPTIC SANITARY SEWER

STORM SEWER

ELECTRIC TOWER

ELECTRIC CABLE TELEVISION

OVERHEAD TRANSMISSION LINES

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT	RDE
CERTIFIED SURVEY MAP	CSM	EASEMENT	
CONCRETE	CONC	RIGHT	RT
COUNTY	CO	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
DISTANCE	DIST	SEPTIC VENT	SEPV
CORNER	COR	SQUARE FEET	SF
DOCUMENT NUMBER	DOC	STATE TRUNK HIGHWAY	STH
EASEMENT	EASE	STATION	STA
EXISTING	EX	TELEPHONE PEDESTAL	TP
GAS VALVE	GV	TEMPORARY LIMITED	TLE
GRID NORTH	GN	EASEMENT	
HIGHWAY EASEMENT	HE	TRANSPORTATION PROJECT PLAT	TPP
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH
LAND CONTRACT	LC	VOLUME	V
LEFT	LT		
MONUMENT	MON	CURVE DATA ABBREVIA	ZIONS
NATIONAL GEODETIC SURVEY	NGS	LONG CHORD	1 CH
NUMBER	NO	LONG CHORD BEARING	LCH
OUTLOT	OL	RADIUS	R
PAGE	Р	DEGREE OF CURVE	D
POINT OF TANGENCY	PT	CENTRAL ANGLE	∆/DEL7
PERMANENT LIMITED	PLE	LENGTH OF CURVE	L
EASEMENT		TANGENT DIRECTION AHEAD	T DA
POINT OF BEGINNING	POB	DIRECTION AREAD DIRECTION BACK	DB
POINT OF CURVATURE	PC	5.11.25.1.31.1.31.	

#### NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN STATE PLANE COORDINATE SYSTEM GRID, SOUTH-ZONE NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

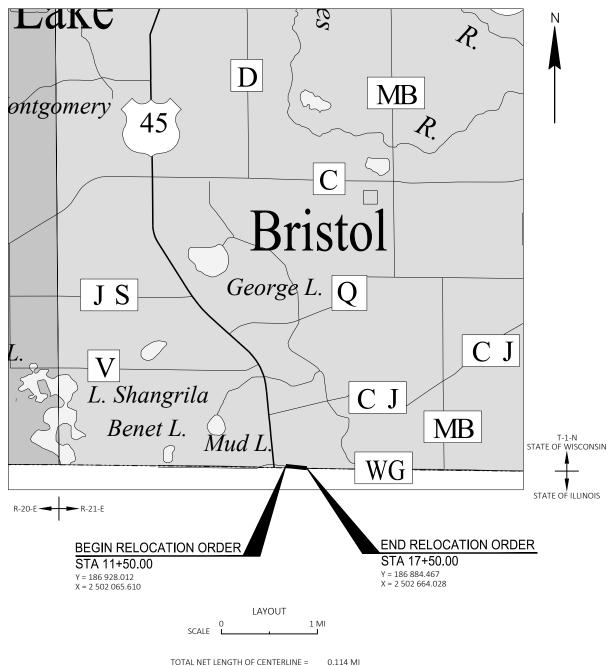
DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE KENOSHA COUNTY HIGHWAY DEPARTMENT.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE DETAIL PAGES.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE DETAIL PAGES.



R/W PROJECT NUMBER
3745-05-00
SHEET TOTAL
NUMBER SHEETS
FEDERAL PROJECT NUMBER
4.01
2

PLAT OF RIGHT OF WAY REQUIRED FOR

V BRISTOL, 128TH ST DUTCH GAP CANAL BRIDGE P30-910

CTH WG KENOSHA COUNTY

CONSTRUCTION PROJECT NUMBER 3745-05-70

#### CAUTION:

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

### ACCEPTED FOR KENOSHA COUNTY

7/17/2024Highway Commissione Director of Highways

(SIGNATURE AND TITLE OF OFFICIAL)

ORIGINAL PLANS PREPARED BY

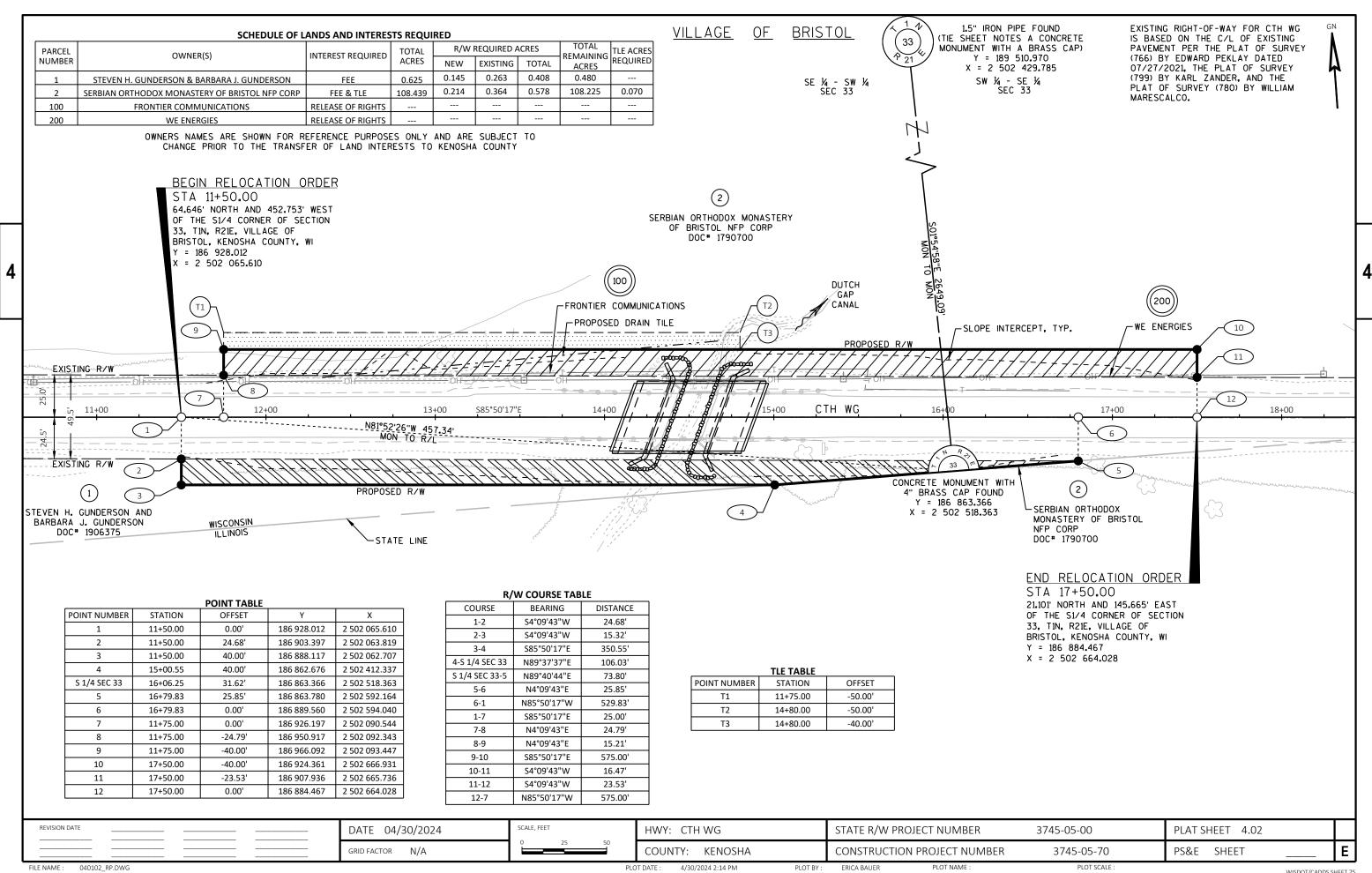


619 East Hoxie St. | P.O. Box 429 | Spring Green, WI 53588 : (608) 588-7866 | F: (608) 588-7954 | www.westbrookeng.com

NICHOLAS J.
BREY
S-3145
LAVALLE
WISCONSIN
SURV

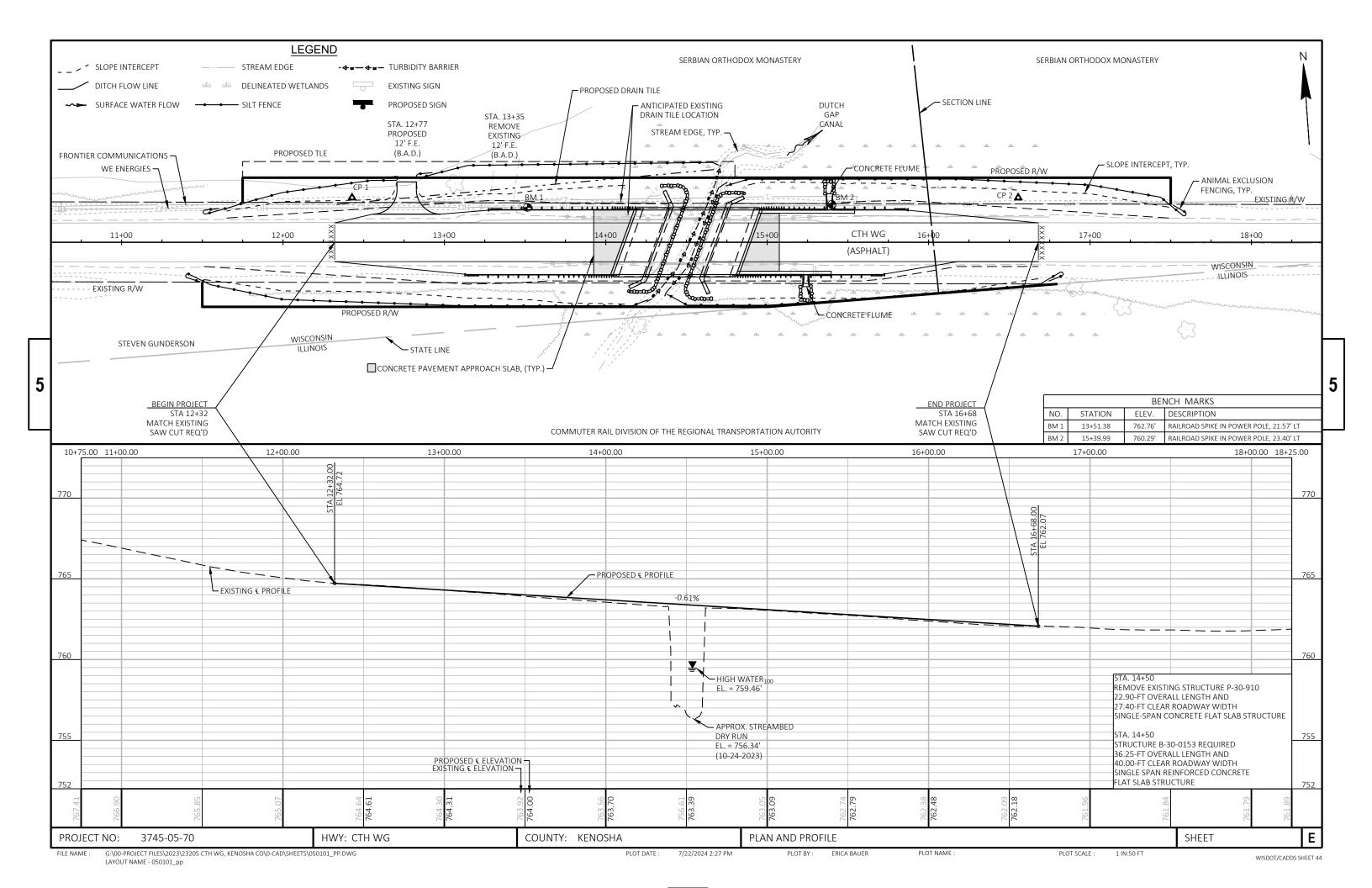
REVISION DATE

DATE 04-30-224 Ulula A Bay
(Professional Land Styfeyor Signature)



LAYOUT NAME - 040102 rp

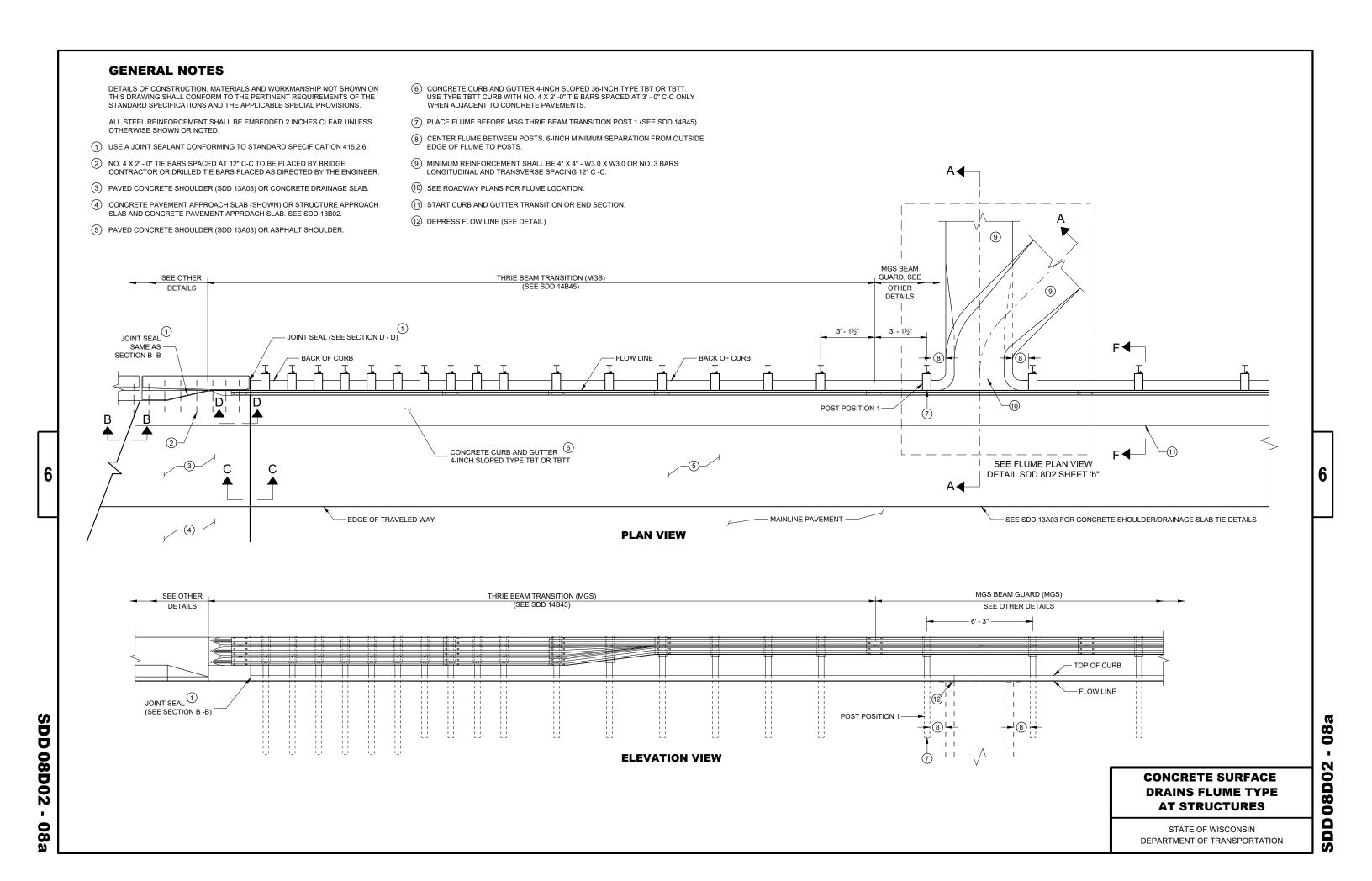
WISDOT/CADDS SHEET 75

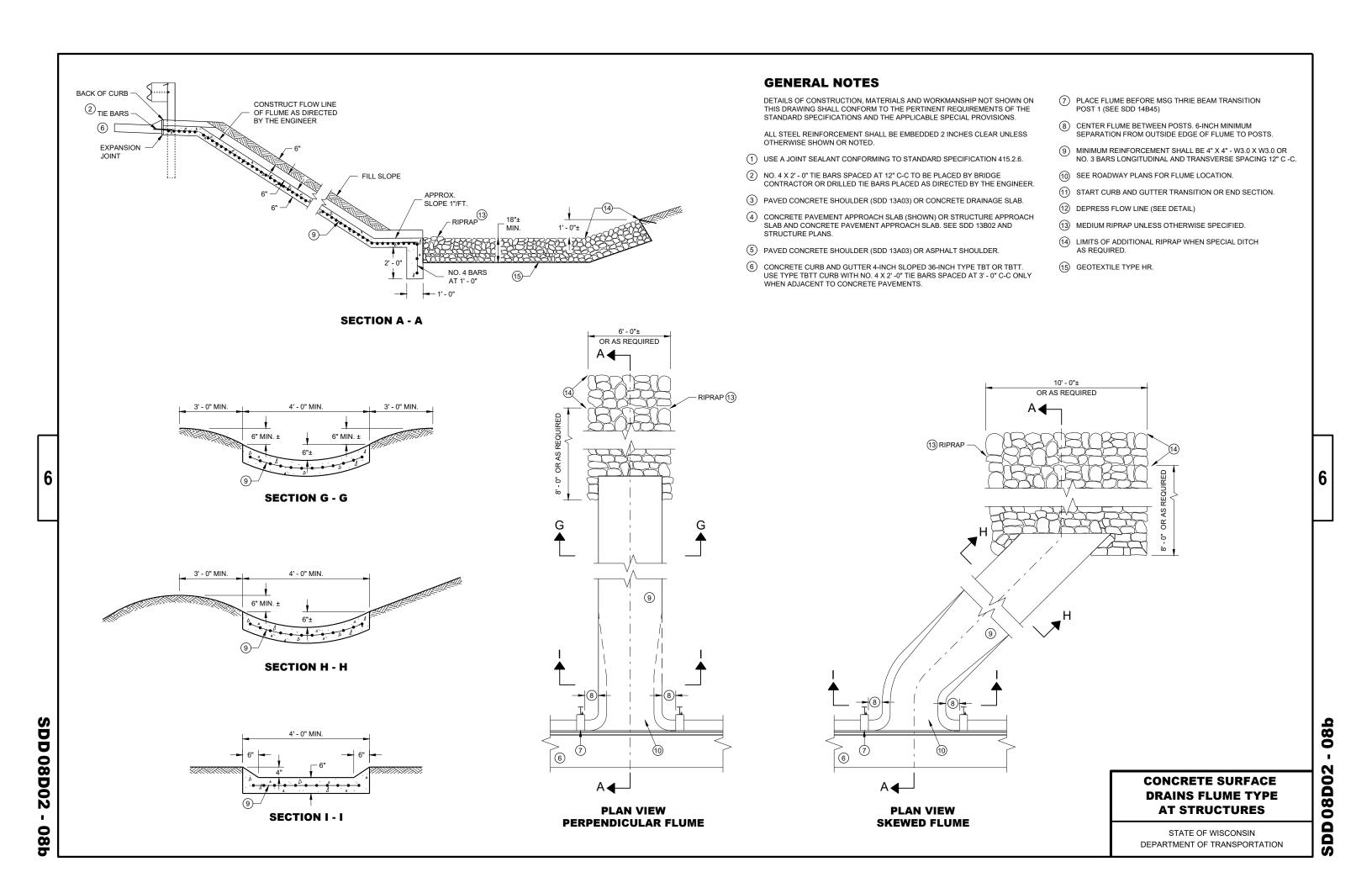


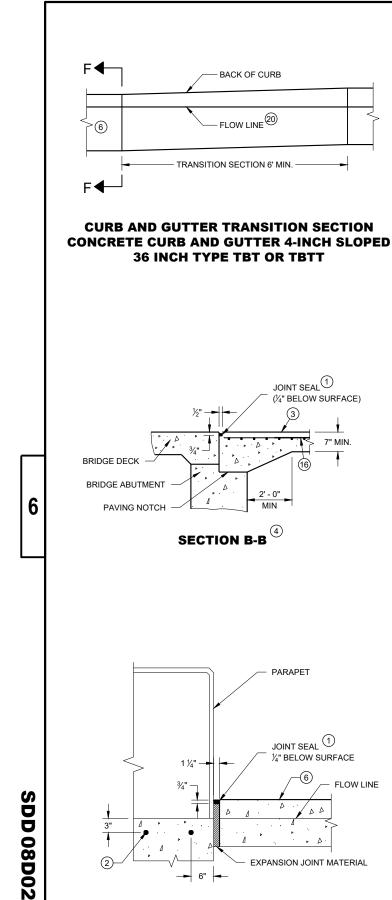
# Standard Detail Drawing List

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
DRIVEWAYS WITHOUT CURB & GUTTER
SILT FENCE
TURBIDITY BARRIER
NAME PLATE (STRUCTURES)
CONCRETE PAVEMENT APPROACH SLAB
STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
HMA LONGITUDINAL JOINTS
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
BARRICADES AND SIGNS FOR MAINLINE CLOSURES
BARRICADES AND SIGNS FOR VARIOUS CLOSURES
DETOUR SIGNING FOR MAINLINE CLOSURES
SIGNING & MARKING FOR TWO LANE BRIDGES
PERMANENT LONGITUDINAL PAVEMENT MARKINGS
CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
LANDMARK REFERENCE MONUMENTS AND COVERS

6

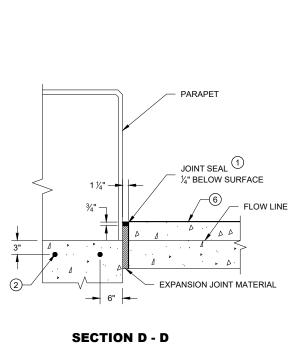






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SECTION B-B

BACK OF CURB

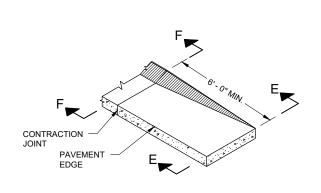
FLOW LINE 20

JOINT SEAL 1

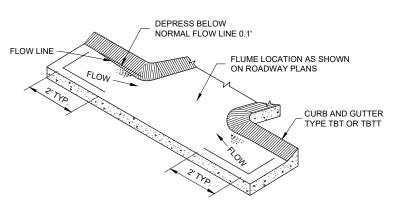
(1/4" BELOW SURFACE)

7" MIN.

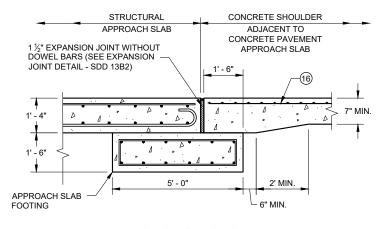
TRANSITION SECTION 6' MIN.



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



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

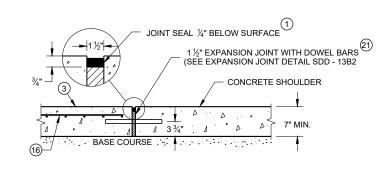


**SECTION C - C** JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB

**FINISHED** 

SHOULDER

6" MIN



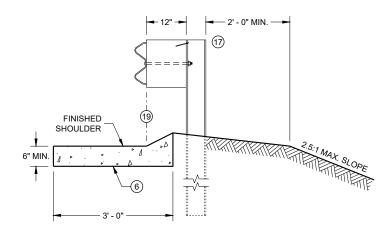
**SECTION C - C** JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS

#### **GENERAL NOTES**

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

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS

- (1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
- (2) NO. 4 X 2' 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
- (3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
- (4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
- (5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
- (6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
- 7 PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- 8 CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
- 9 MINIMUM REINFORCEMENT SHALL BE 4" X 4" W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
- (10) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (11) START CURB AND GUTTER TRANSITION OR END SECTION.
- (12) DEPRESS FLOW LINE (SEE DETAIL)
- (13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
- (14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
- (15) GEOTEXTILE TYPE HR.
- (16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.
- (7) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.
- (18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.
- (19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.
- 20 MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.
- (21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



**SECTION F - F** 

### **CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES**

0

2

0

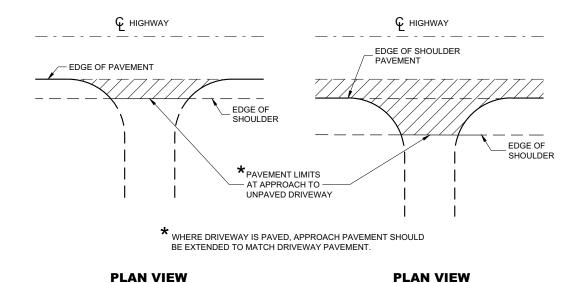
80

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER

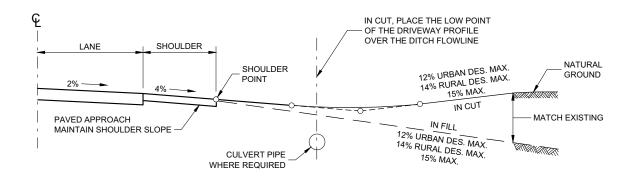
**SECTION E - E** 

2' - 0" MIN. —

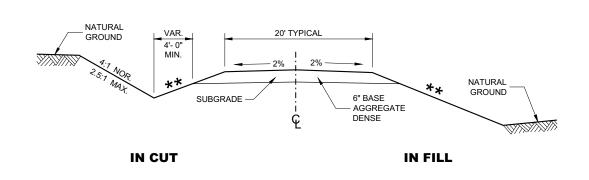


**RURAL DRIVEWAY INTERSECTION DETAIL** (NO CURB AND GUTTER OR SIDEWALK)

(PAVED SHOULDER ON HIGHWAY)



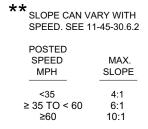
#### **TYPICAL DRIVEWAY PROFILES**

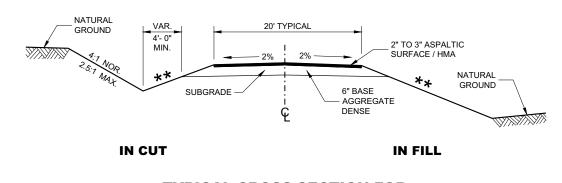


**TYPICAL CROSS SECTION FOR** 

PRIVATE DRIVE OR FIELD ENTRANCE **AGGREGATE SURFACE** 

(UNPAVED SHOULDER ON HIGHWAY)





### **TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE**

# **DRIVEWAYS WITHOUT CURB AND GUTTER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

Ò

08D21

SD

SDD 08D21

6

December 2017 DATE

# TYPICAL APPLICATION OF SILT FENCE

6

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# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



#### GENERAL NOTES

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

- $\bigcirc$  HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

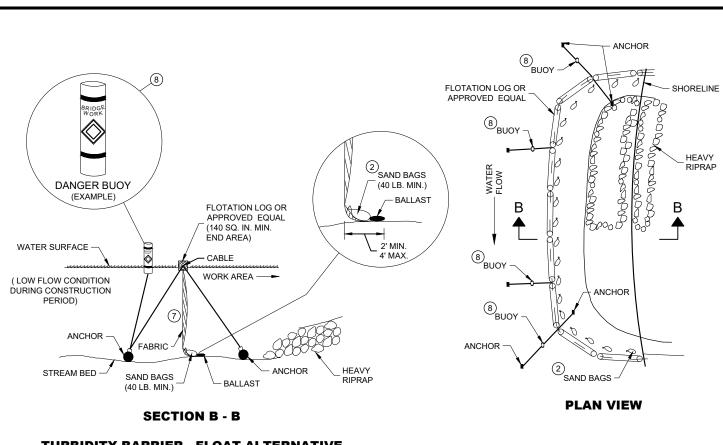
(WHEN REQUIRED BY THE ENGINEER)



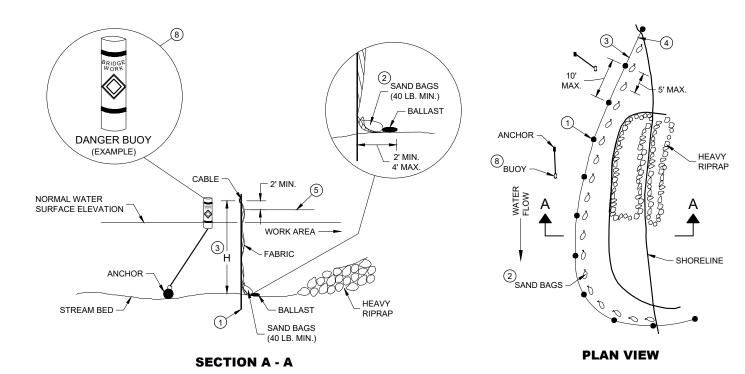
6

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D.D. 8 E 9-6



### **TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6**



**TURBIDITY BARRIER - STANDARD POST INSTALLATION** 

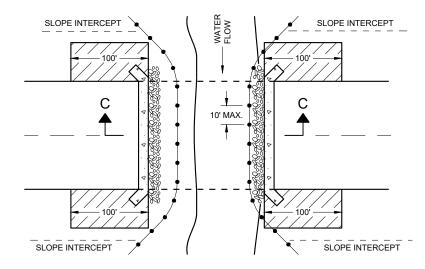
#### **TURBIDITY BARRIER PLACEMENT DETAILS**

#### **GENERAL NOTES**

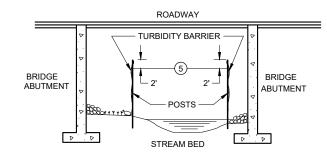
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH
- (2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



**PLAN VIEW** 



**SECTION C - C** 

## **TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES**

# **TURBIDITY BARRIER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  $\infty$ 

APPROVED /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT
ENGINEER 6/4/02 DATE





### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **GENERAL NOTES**

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

# NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

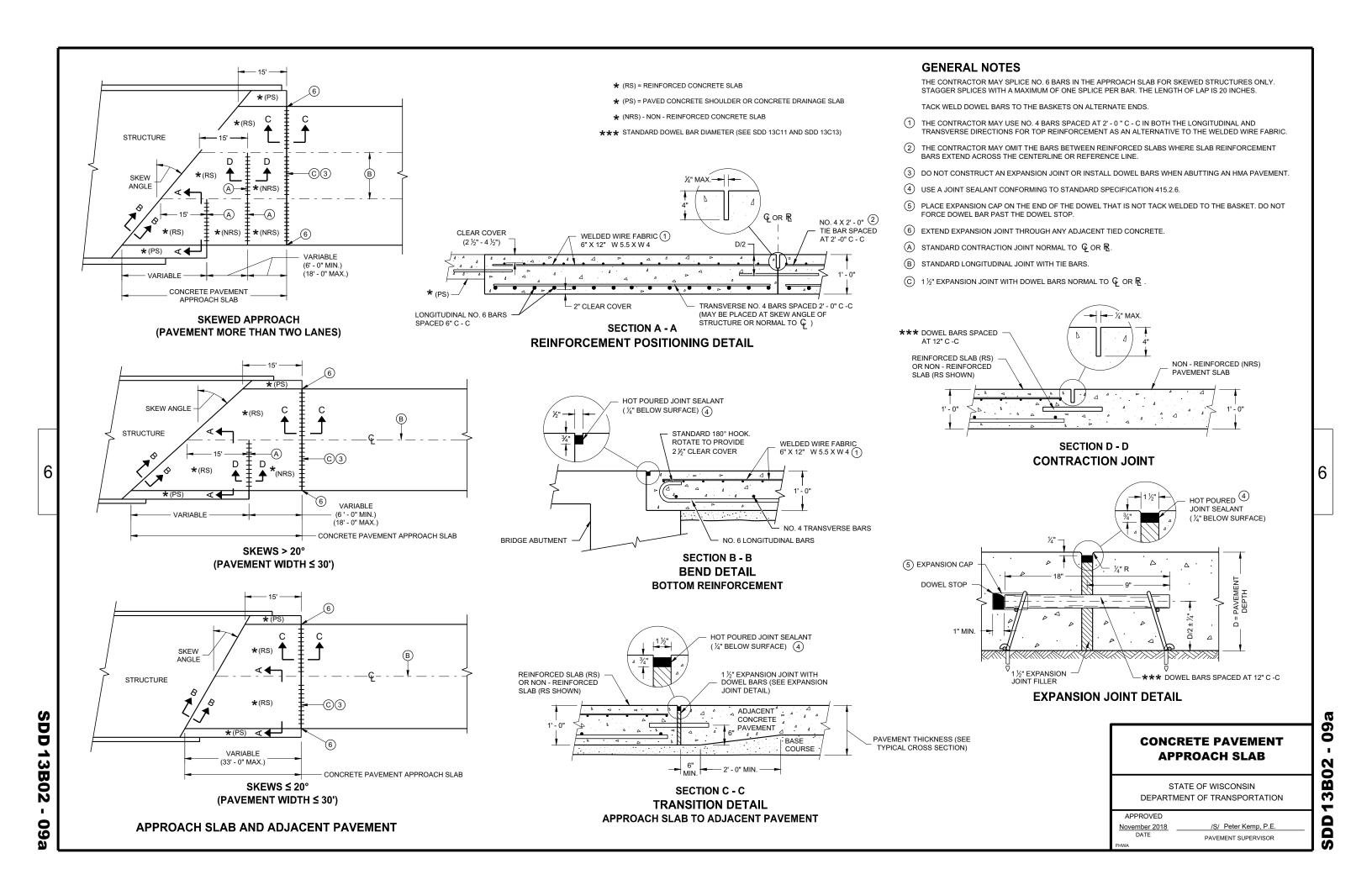
APPROVED

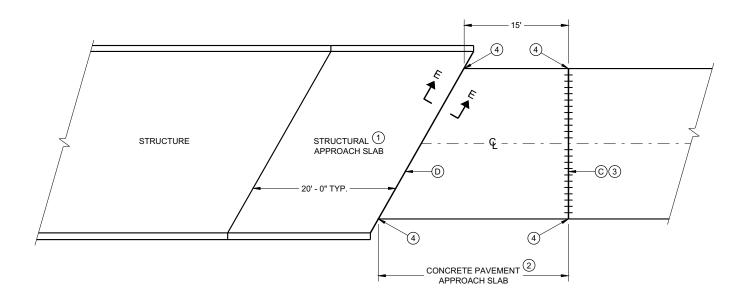
3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

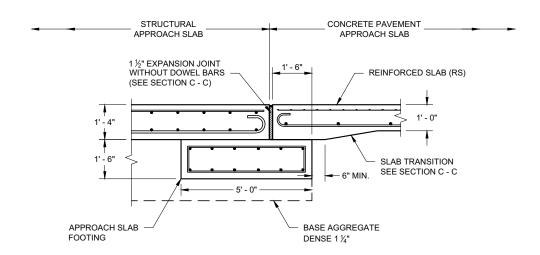
.D.D. 12 A

3-10





#### **BRIDGE APPROACHES**



**SECTION E - E FOOTING DETAIL** STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

#### **GENERAL NOTES**

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

- (1) SEE BRIDGE PLAN.
- (2) CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS
- $\bigcirc$  DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- 4 EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.
- © 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO GOR R.
- D 1 ½" EXPANSION JOINT (NO DOWELS)

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT **APPROACH SLAB** 

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

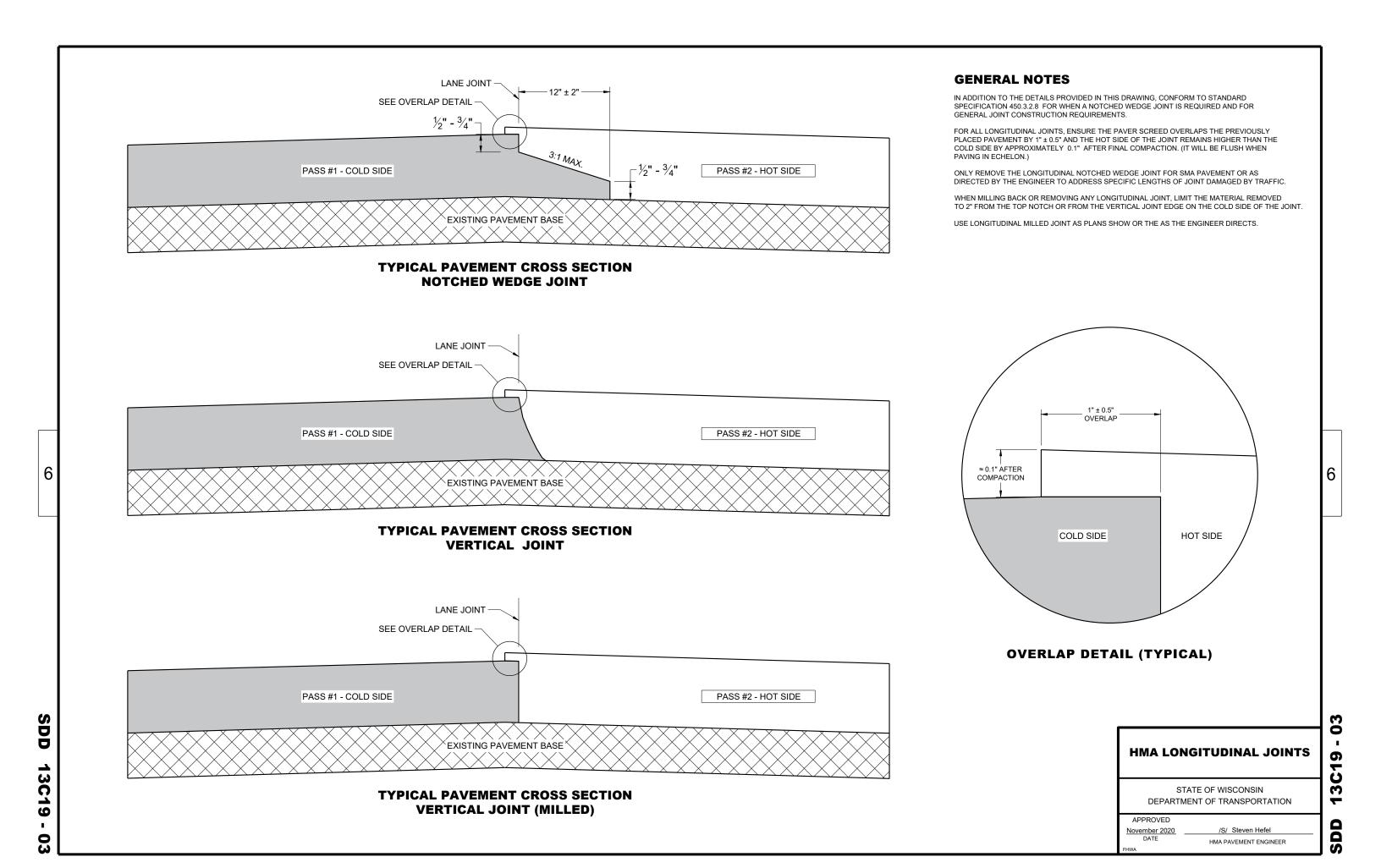
APPROVED

November 2018 DATE

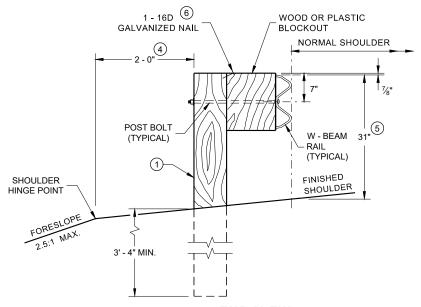
/S/ Peter Kemp P.E. PAVEMENT SUPERVISOR

**3B02** SDD

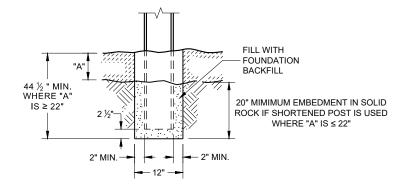
**60** 



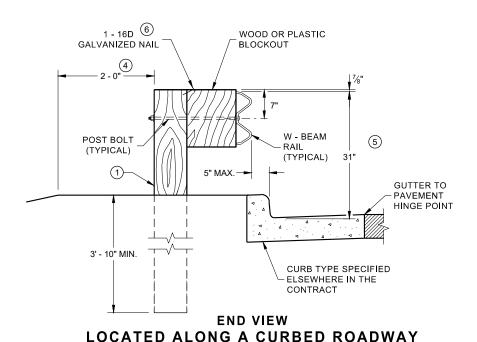
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \ensuremath{\texttt{5}}$  FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- $\bigcirc$  TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

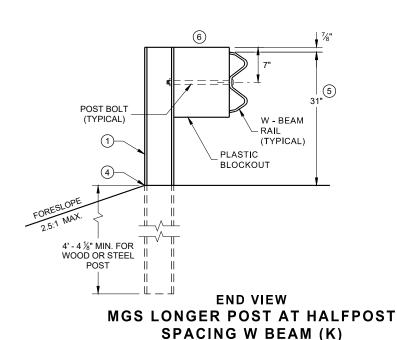


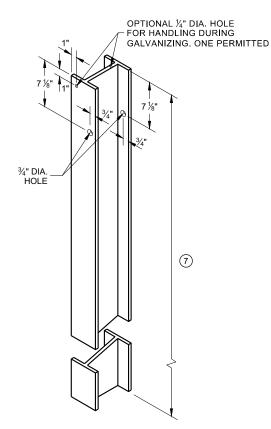
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



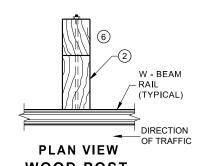
SETTING STEEL OR WOOD POST IN ROCK



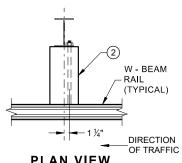




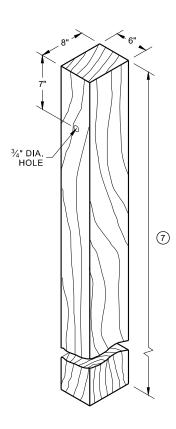
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



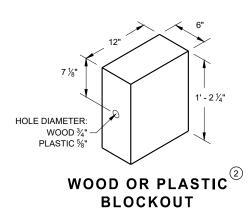
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

# FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

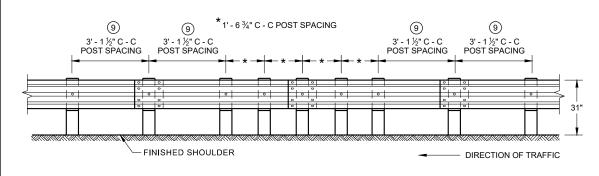
POST SPACING

DIRECTION OF TRAFFIC

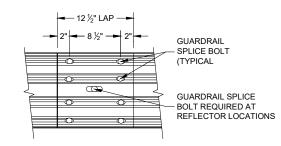
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



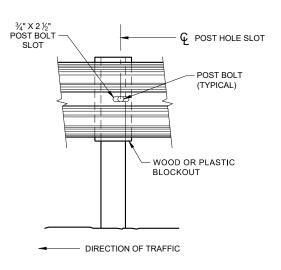
FRONT VIEW
MID-SPAN BEAM SPLICE

# **GENERAL NOTES**

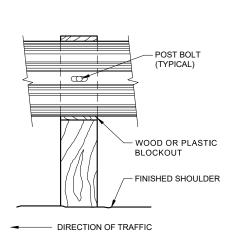
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

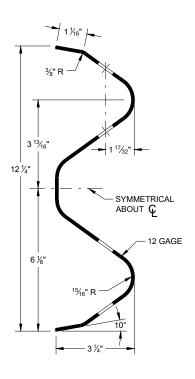
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



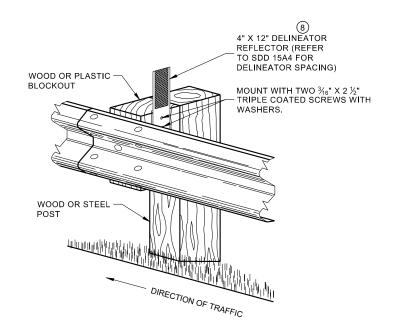
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



**SECTION THRU W-BEAM RAIL** 



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

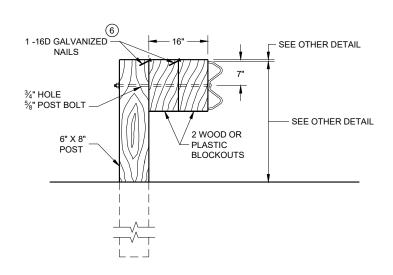
**07**b

SDD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

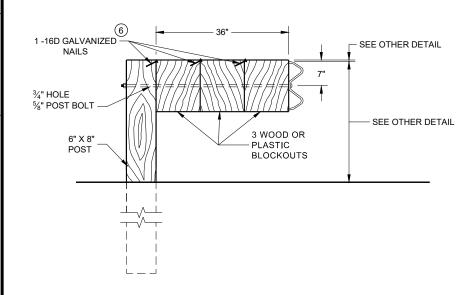
6

6



#### **DETAIL FOR 16" BLOCKOUT DEPTH**

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



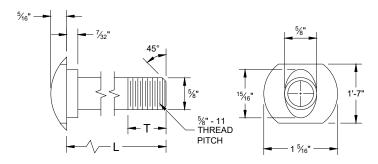
#### **DETAIL FOR 36" BLOCKOUT DEPTH**

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

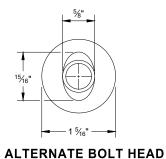
#### NOTE:

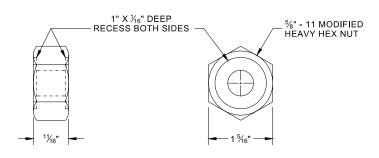
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF  $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN  $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



#### **POST BOLT TABLE**

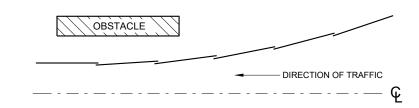
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



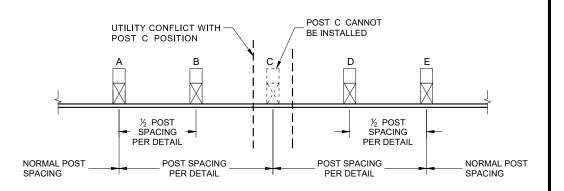


### POST BOLT, SPLICE BOLT **AND RECESS NUT**

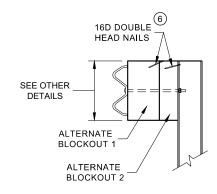
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

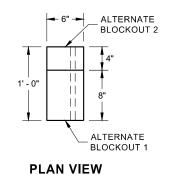


#### **PLAN VIEW BEAM LAPPING DETAIL**



## POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

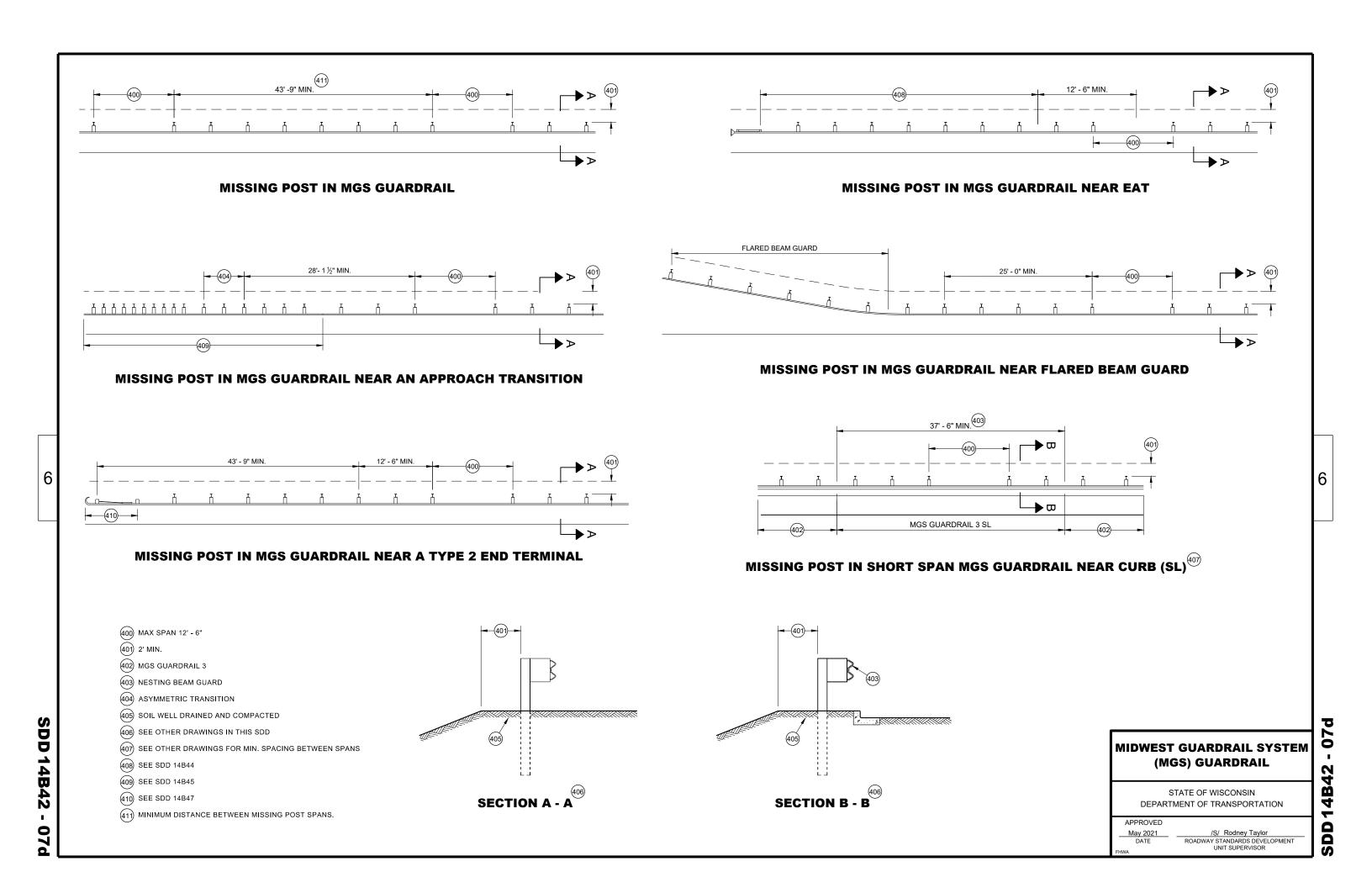
**ALTERNATE WOOD BLOCKOUT DETAIL** 

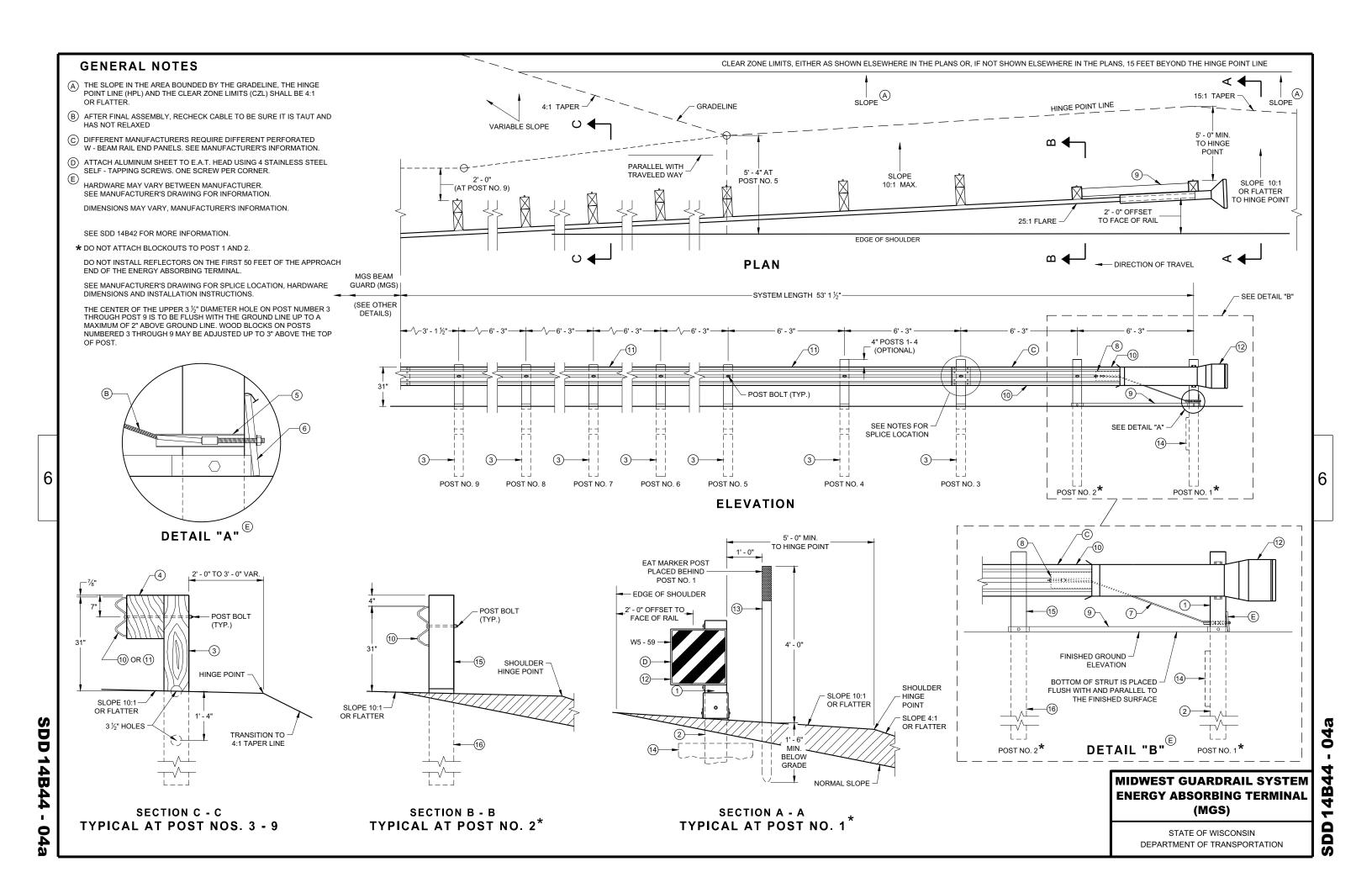
# **MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

07

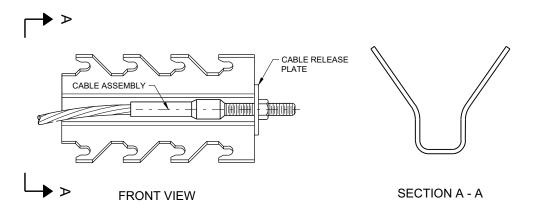
SD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

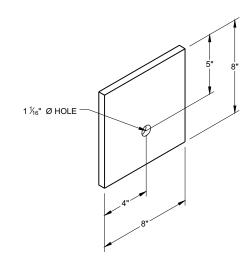




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX <sup>(9) (E)</sup>



BEARING PLATE

### MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

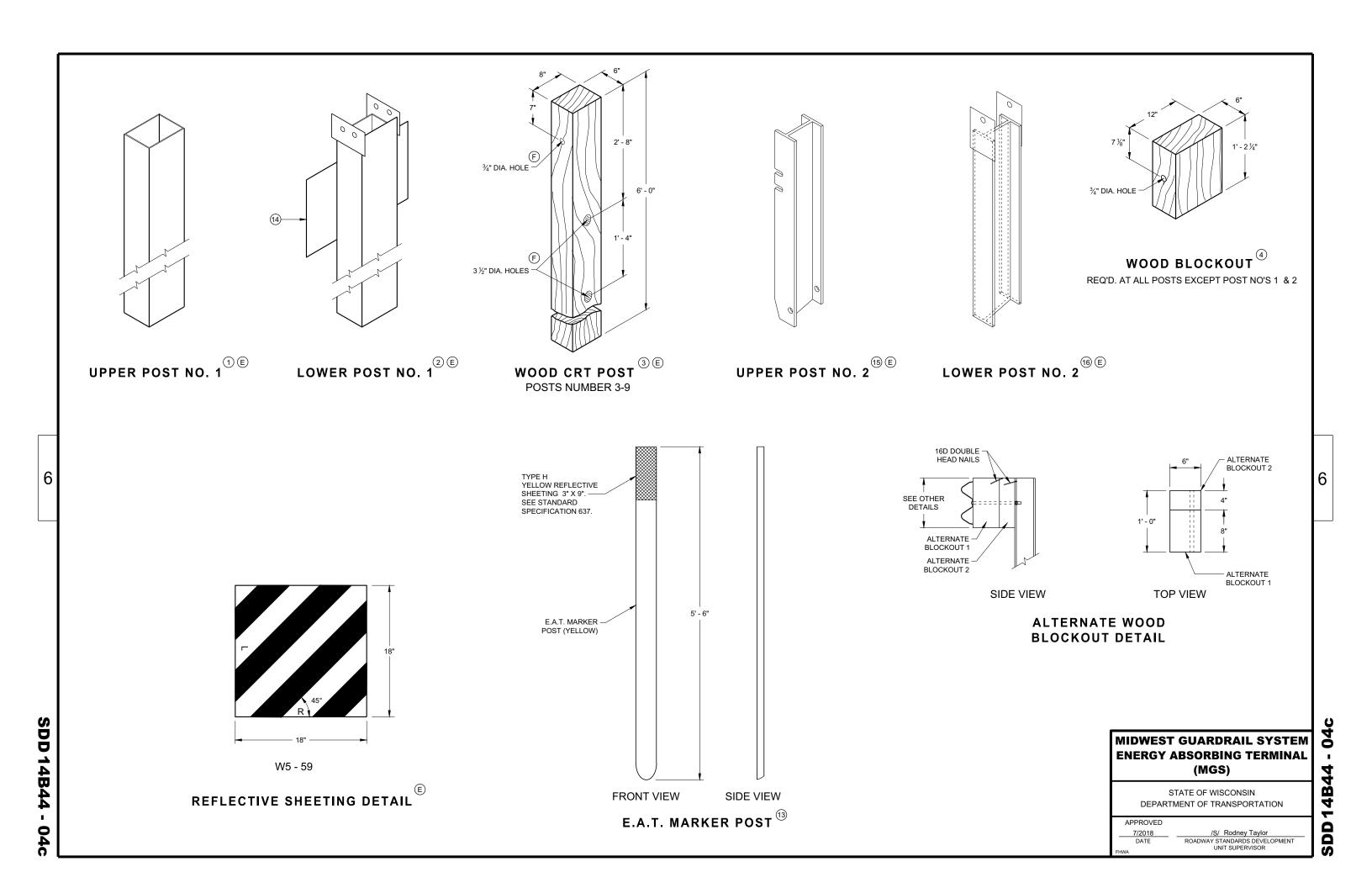
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

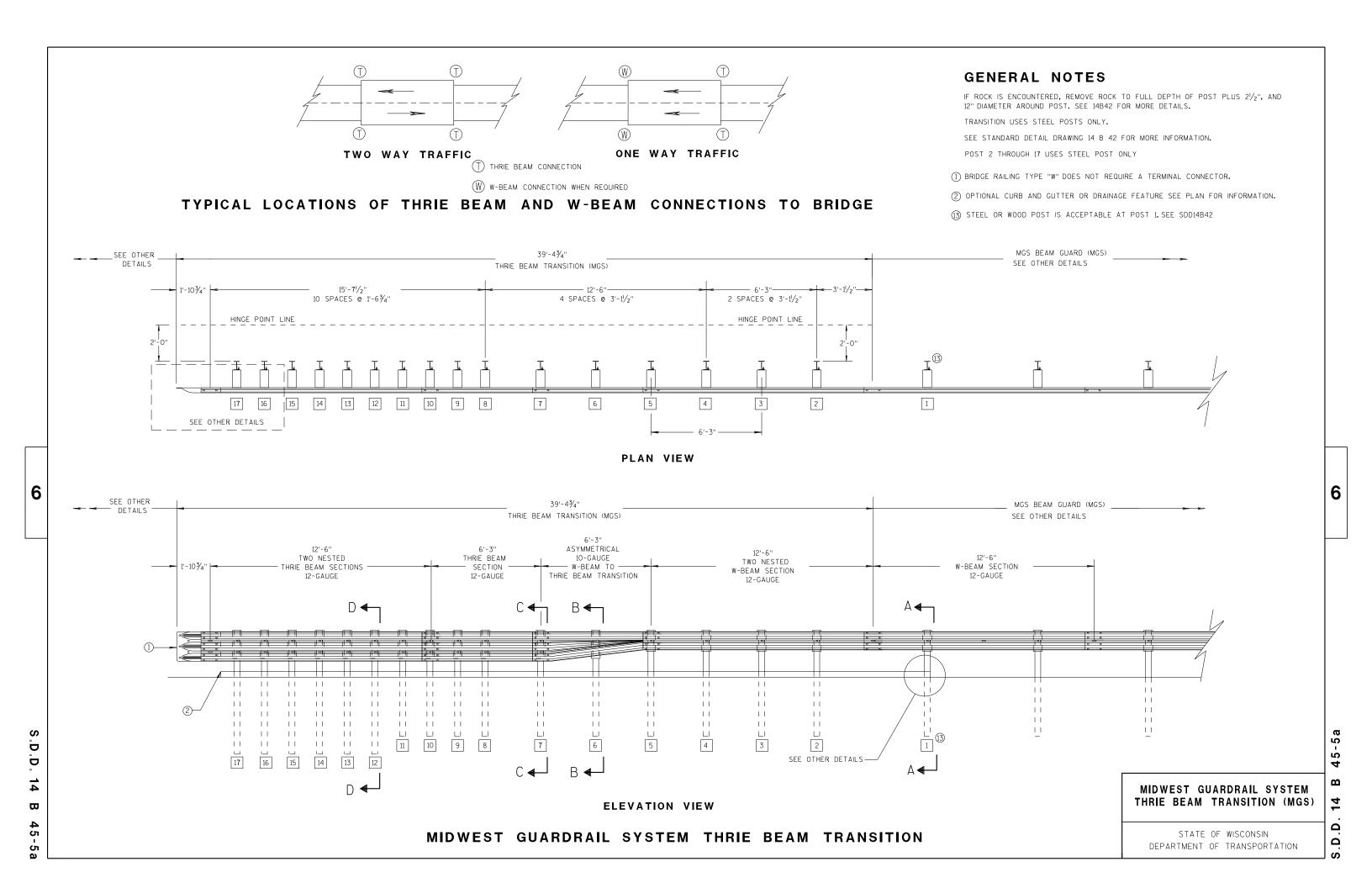
6

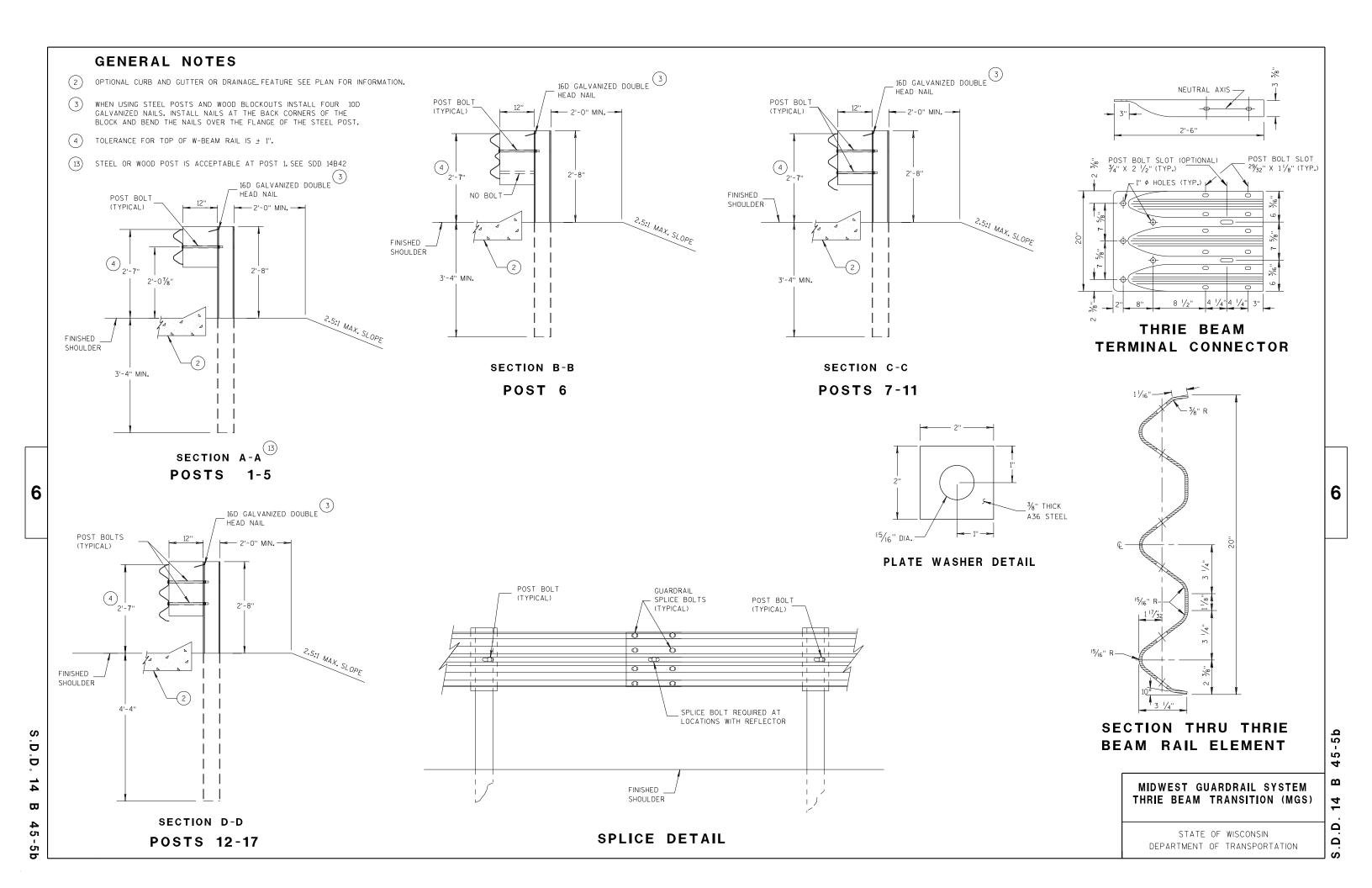
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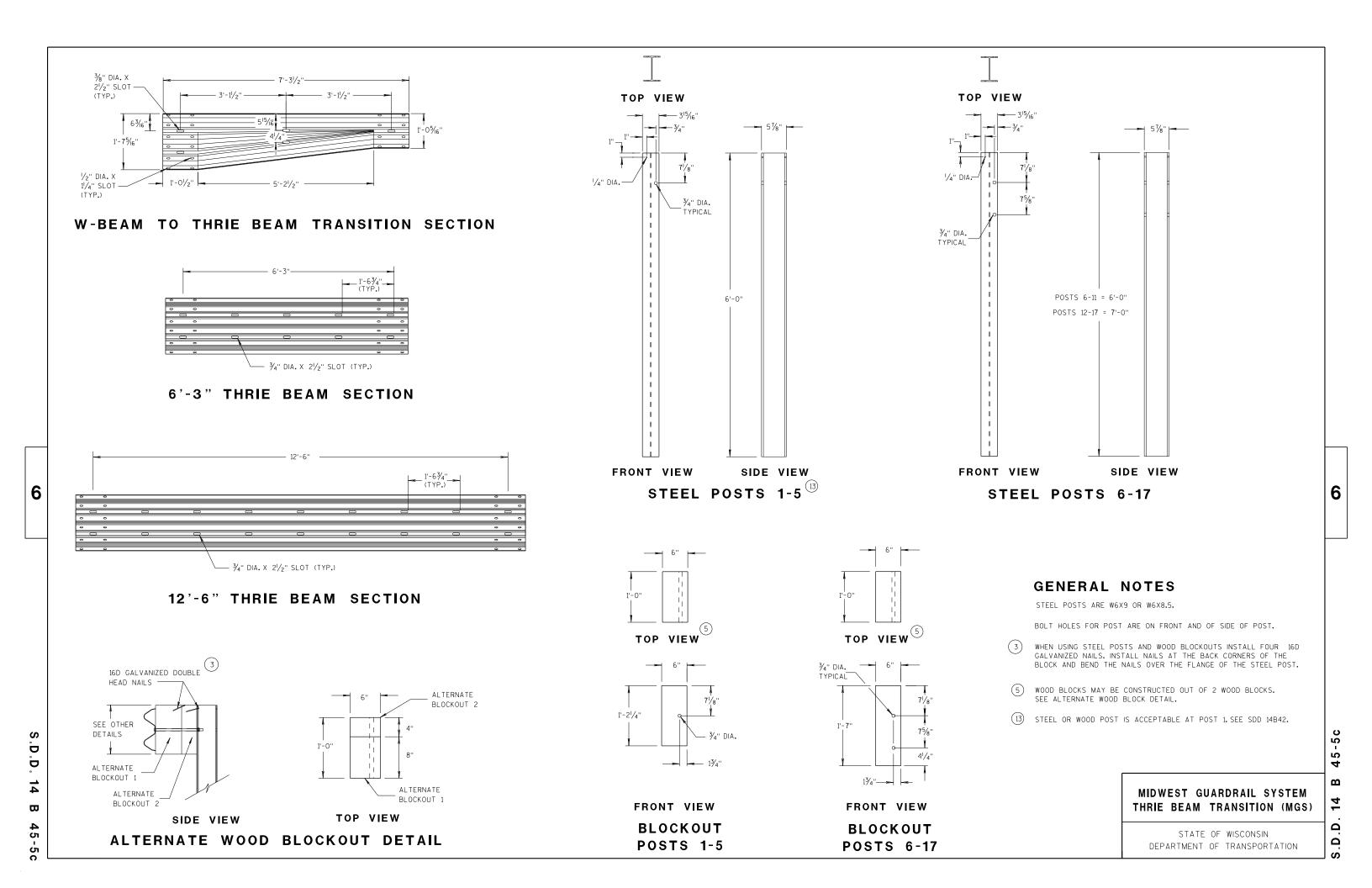
SDD

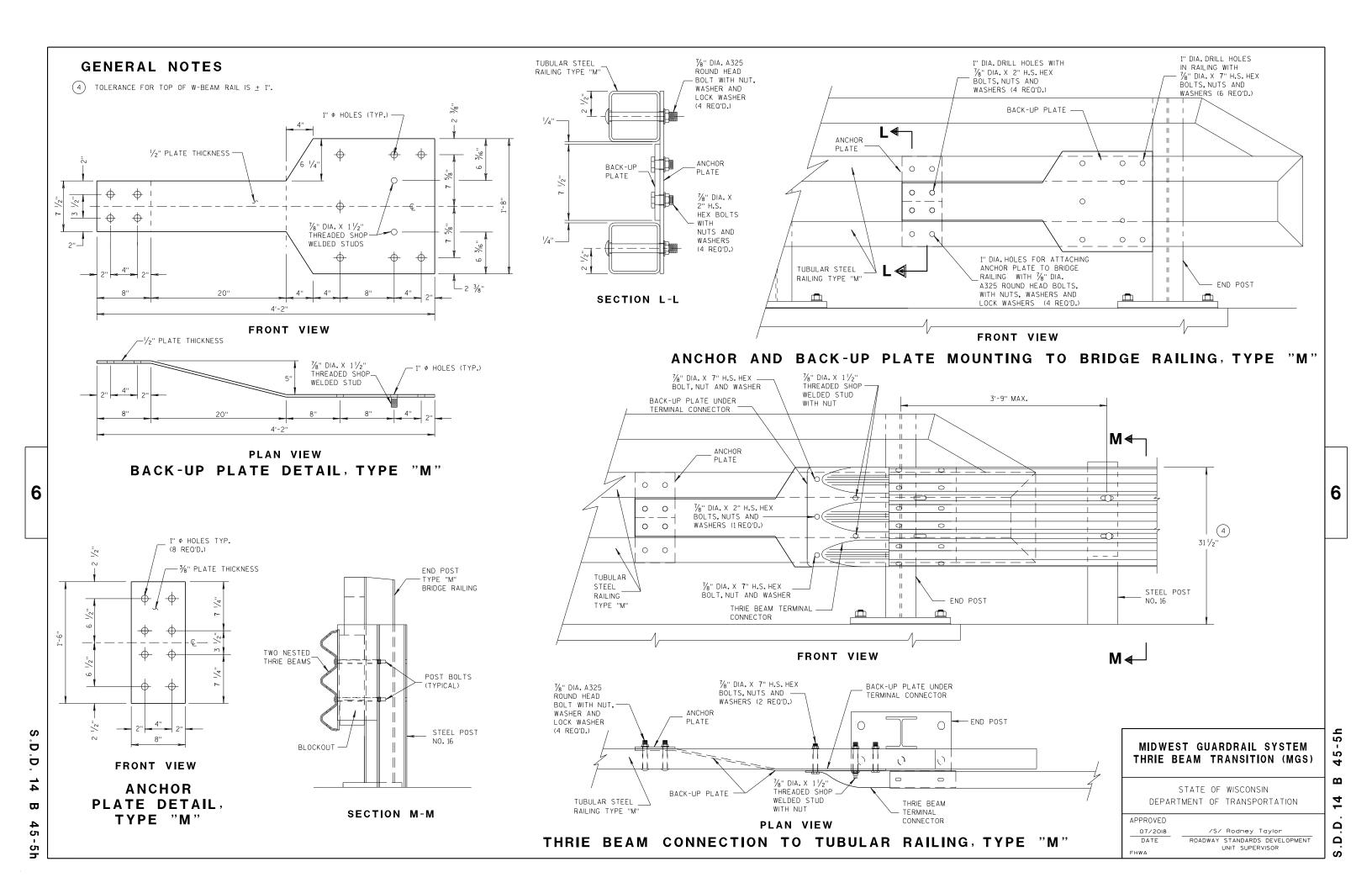
SDD 14B44 - 04

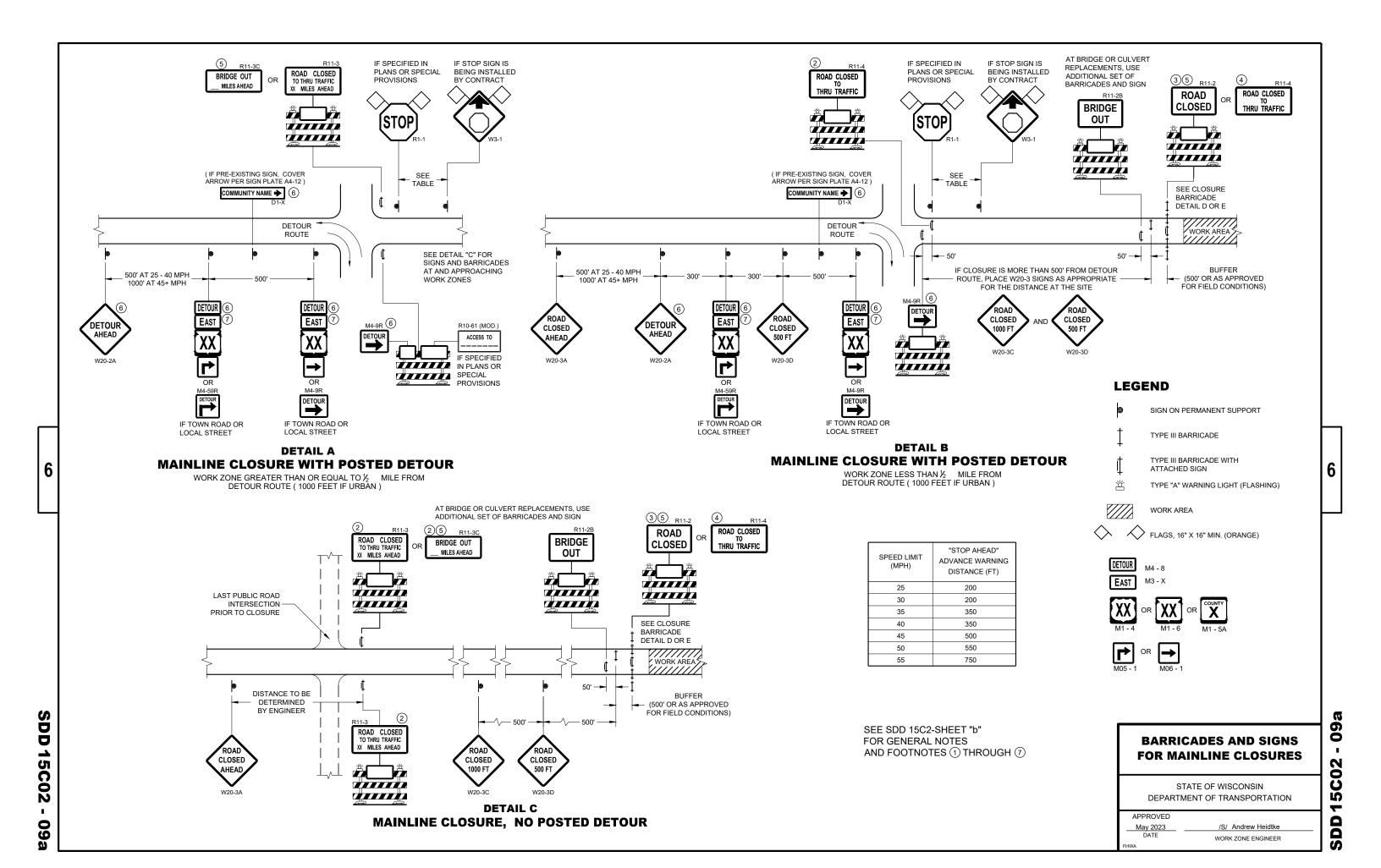


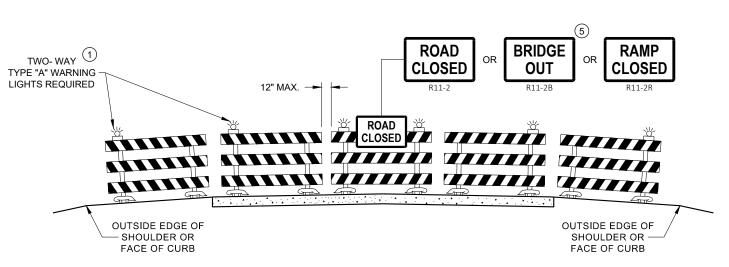




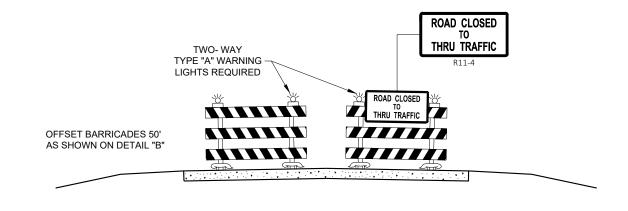








### **DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW**



### **DETAIL E** LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

### **GENERAL NOTES**

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

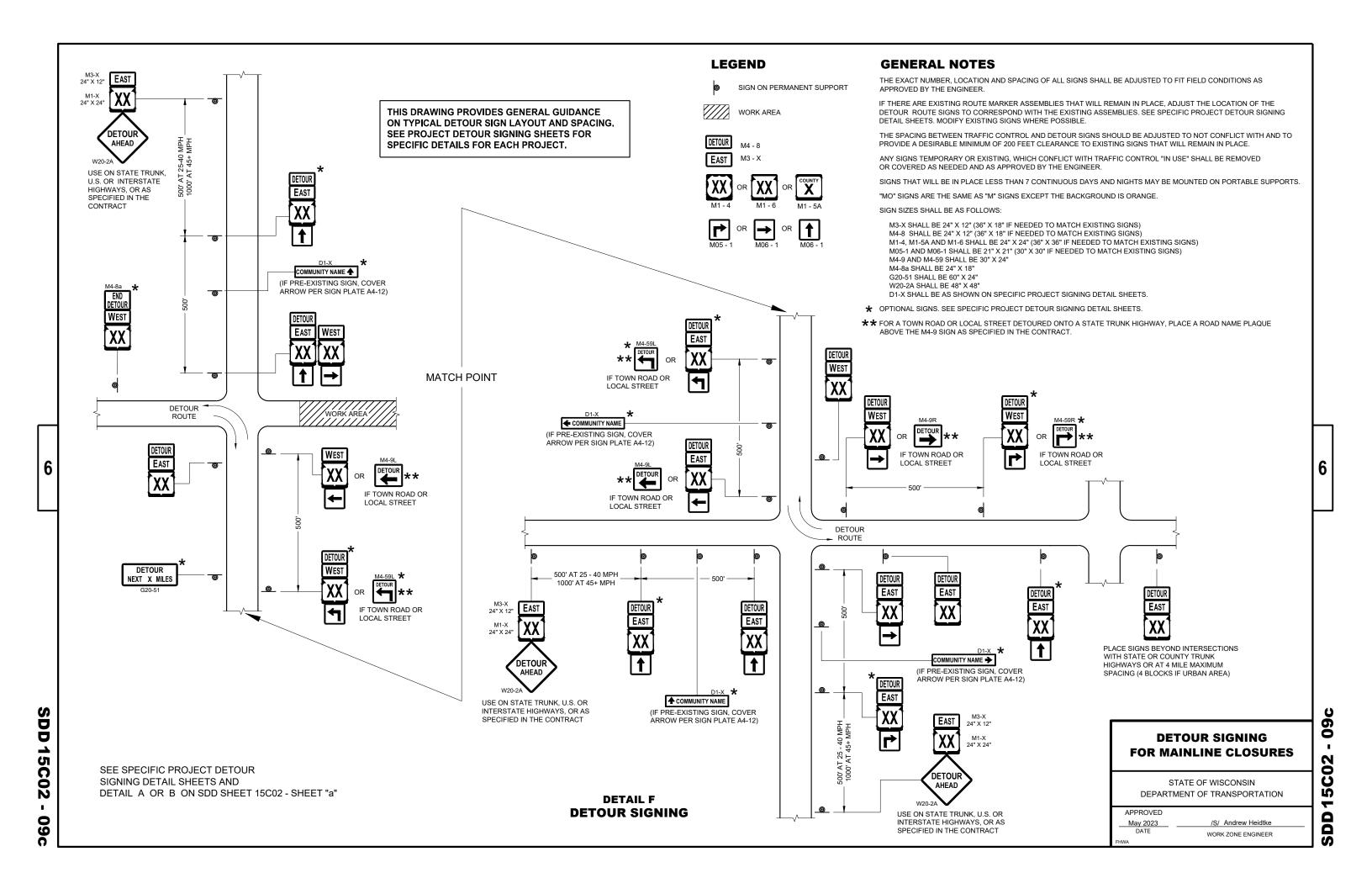
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

### **BARRICADES AND SIGNS** FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

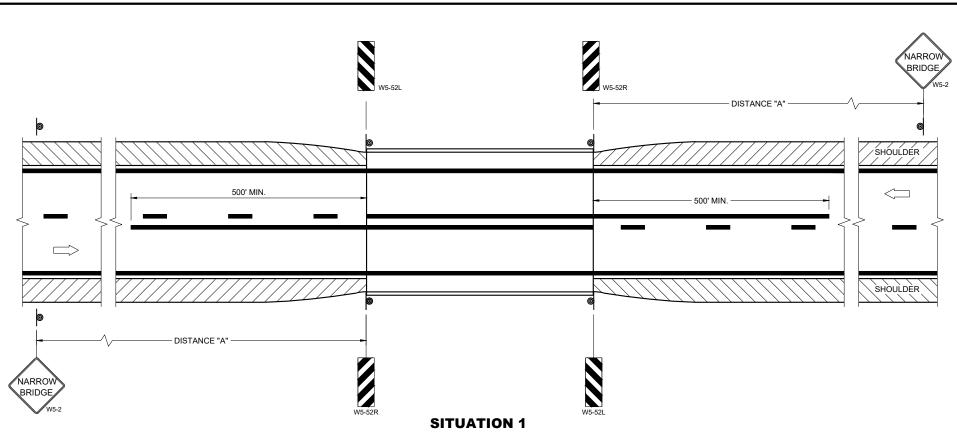
**APPROVED** May 2023 DATE WORK ZONE ENGINEER

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# SDD 15C06-12



WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

# OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

WARRANTING CRITERIA: 1. BRIDGE WIDTH IS AT LEAST 24 FEET <u>AND</u> 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

SDD

15C06-12

**GENERAL NOTES** 

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

### LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

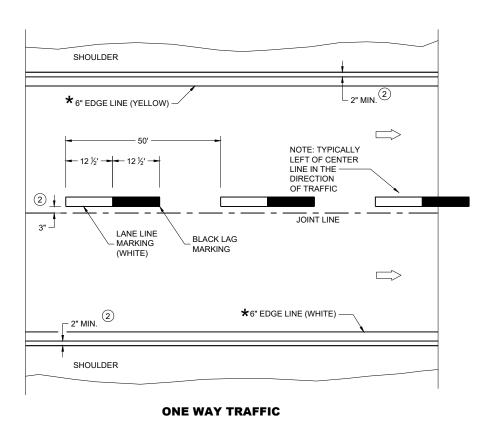
### DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

### SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Jeannie Silver
DATE	Statewide Pavement Marking Engineer
FHWA	



**PERMANENT PAVEMENT MARKING** 

### **GENERAL NOTES**

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

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

### **LEGEND**

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

/S/ Jeannie Silver Statewide Pavement Marking Engineer

6

SDD

C08-23 Ŋ SD

15C08-23a

**GENERAL NOTES** 

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

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

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

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

### **CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER Ŋ

SDD

**SDD 15C11** 

2" MAX.

4" MAX.

- WHITE 360° REBOUNDABLE
REFLECTIVE SHEETING

- FLEXIBLE ORANGE POST

FLUORESCENT ORANGE

The state of the state o

FLEXIBLE TUBULAR

**FLEXIBLE TUBULAR** 

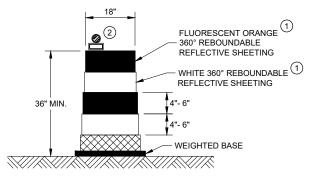
**MARKER POST** 

**WORK ZONE** 

## **SDD 15C11**

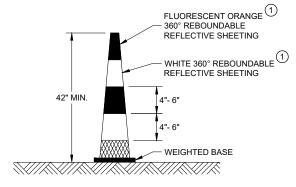
### **GENERAL NOTES**

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



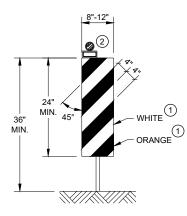
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



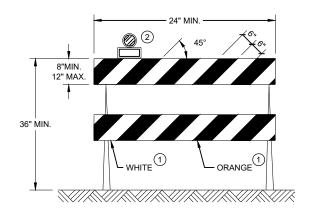
### **42" CONE**

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



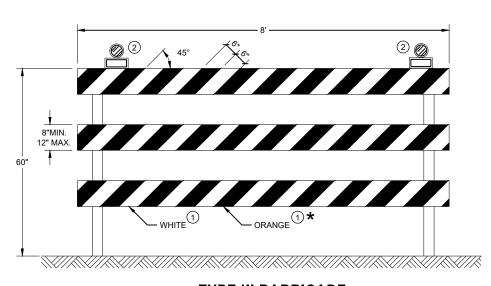
### **VERTICAL PANEL**

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



### **TYPE II BARRICADE**

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



### **TYPE III BARRICADE**

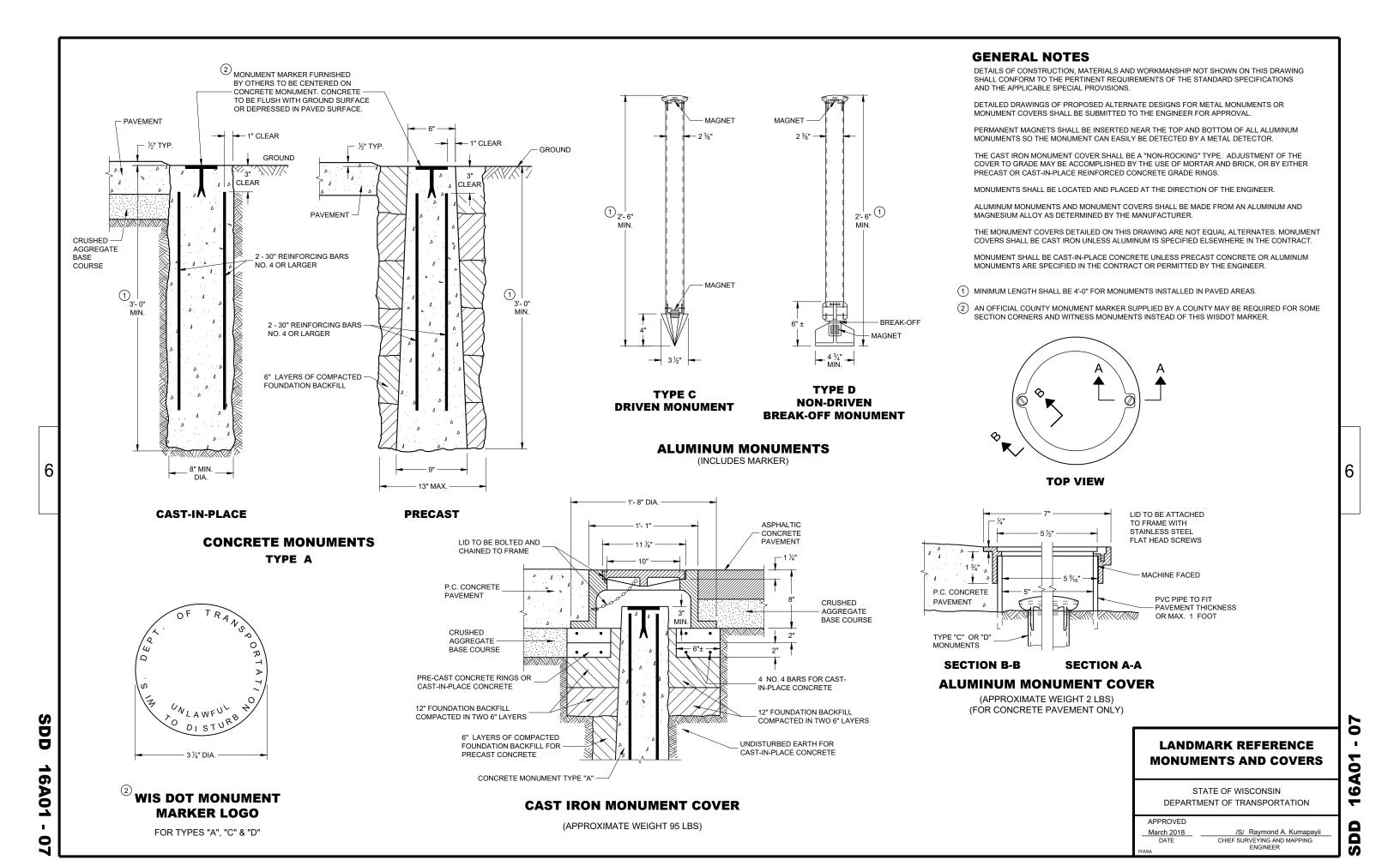
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

### **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER







RURAL AREA (See Note 2)



### GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" ( $\pm$ ) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" ( $\pm$ ) 3".

- 3. For expressways and freeways, mounting height is 7'- 3"  $(\pm)$  3" or 6'-3"  $(\pm)$  3" depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ( $\frac{+}{-}$ ) 3''.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) 3'' or as directd by the Engineer.

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

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

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

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. \_\_A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



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





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



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

HWY:

SIGN SHAPE OTHER THAN	DIAMOND
(THREE POSTS REQUIR	RED)
L	Е
Greater than 108" to 144"	12''

### GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\times \times \times$  See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

### POST EMBEDMENT DEPTH

	ı
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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr\_stdplate\A44.dgn

PROJECT NO:

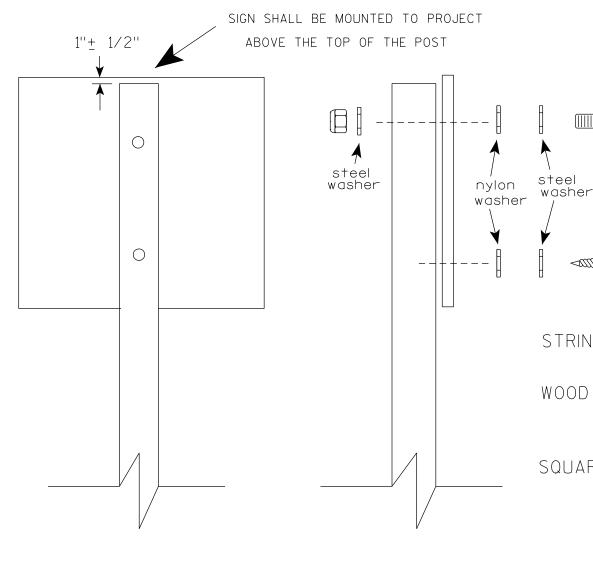
COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS  $(4'' \times 6'')$ 

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 1/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN

PROJECT NO:



FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

COUNTY:

PLOT NAME :

PLOT BY: mscsja

WISDOT/CADDS SHEET 42

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer

SHEET NO:

PLOT SCALE: 13.659812:1.000000

DATE 2/05/15



### BANDING



SINGLE SIGN





### WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X<sup>3</sup>/<sub>8</sub>" I.D. X<sup>1</sup>/<sub>16</sub>" STEEL 1-1/4" O.D.  $\times \frac{3}{8}$ " I.D.  $\times$  .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

### GENERAL NOTES

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

### "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:

VIEW FROM TOP

### GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

  SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $3/_{8}$ " I.D. X  $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 $\rightarrow$  LAG BOLTS SHALL BE  $\frac{3}{8}$ " X  $\frac{2}{2}$ "

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

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

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A510.dgn

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

SIGN

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

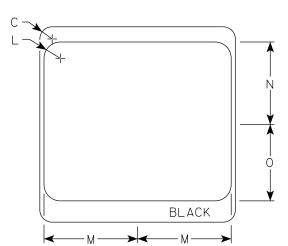
Ε

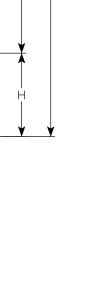
### NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White & Black Message – Black

- 3. Message Series see Note 4
- 4. Message Series E for 1 letter. Message Series D for 2 letters unless message is too big then Series C. Message Series C for 3 letters unless message is too big then Series B.
- 5. Substitute appropriate letters & optically center to achieve proper balance.

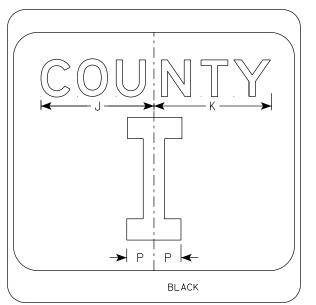


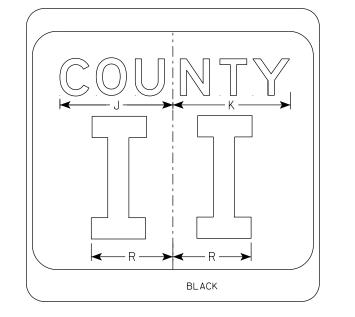


BLACK

HWY:

M1-5A





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Χ	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

COUNTY:

CTH MARKER M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 11/8/2022

PLATE NO. M1-5A.9

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\M15A.dgn

PROJECT NO:

PLOT DATE: 8-NOV 2022 8:26

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

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

Background - See note 5 Message - See note 5

NOTES

- 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

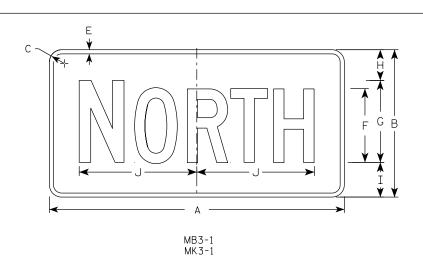
MN3-1 thru MN3-4 Background - Brown

Message - White

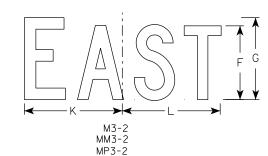
MP3-1 thru MP3-4 Background - White

Message - Blue

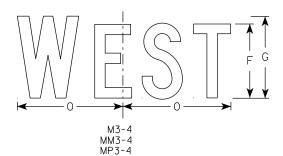
6. Note the first letter of each direction is larger than the remainder of the message.



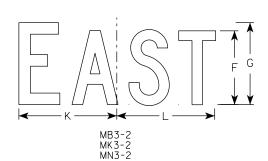
M3-1 MM3-1 MP3-1

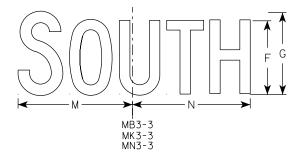


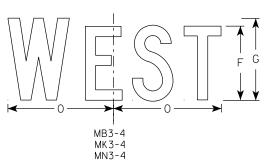
MM3-3



HWY:







SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4 7	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4 7	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

COUNTY:

STANDARD SIGNS M3-1 THRU M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 2/8/2023 PLATE NO. <u>M3-1.1</u>5

PROJECT NO:

PLOT DATE: 8-FEB 2023 11:00

PLOT BY : dotc4c

PLOT NAME :

SHEET NO: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_M31.dgn

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

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

$\begin{array}{c c} & & & \\ \downarrow & & \downarrow \\ \hline & & & \\ \hline & & & \\ \end{array}$	G	
		3
M4-8	<b>&gt;</b>	<u>,                                     </u>

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	┙	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Υ	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

COUNTY:

STANDARD SIGN M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

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

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\M48.dgn

HWY:

PROJECT NO:

PLOT DATE: 9-FEB 2023 7:38

PLOT BY : dotc4c

PLOT NAME :

SHEET NO: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

2. Color:

Background - Orange Message - Black

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

C	<u> </u>
	G
	F G
M4-8A	<b>→</b>

SIZE	А	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.
1																											
2	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
2M	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
5	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

for State Traffic Engineer

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

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\M48A.dgn

PROJECT NO:

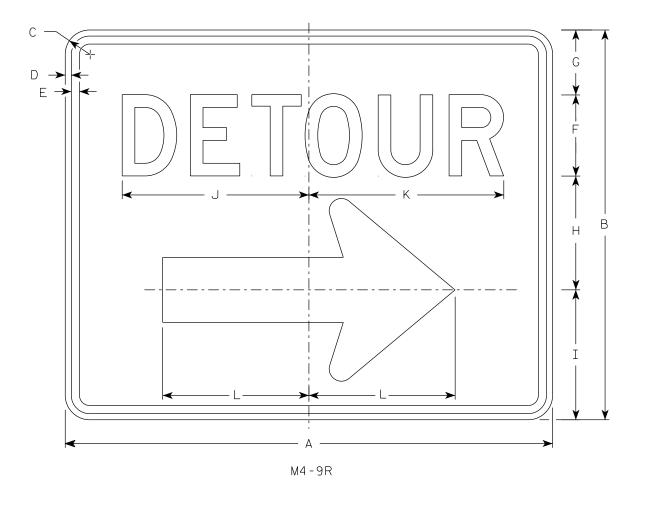
PLOT DATE: 9-FEB 2023 8:03

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

HWY:

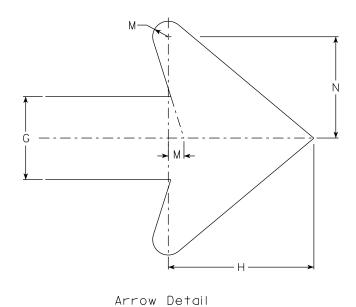


### NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message – Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M4-9L is the same as M4-9R except the arrow is reversed.



SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
4	48	36	1 1/8	1/2	5/8	8	6	10 1/2 1	11	20 5/8	20 1/2	13 1/4	1 1/8	6 1/8													12.0
5	48	36	1 1/8	1/2	5/8	8	6	10 1/2 1	11 %	20 5/8	20 1/2	13 1/4	1 1/8	6 1/8													12.0

COUNTY:

STANDARD SIGN M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R

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

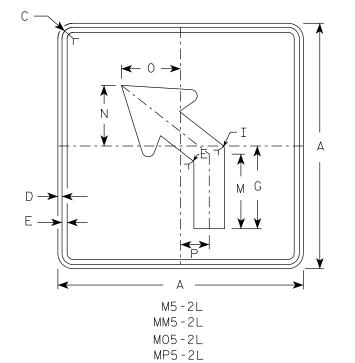
Ε

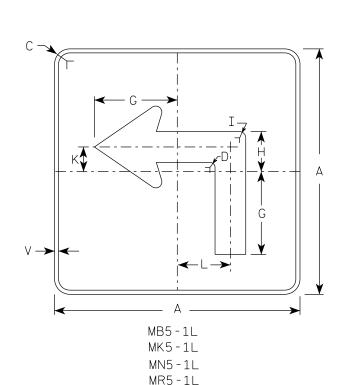
HWY:

PROJECT NO:

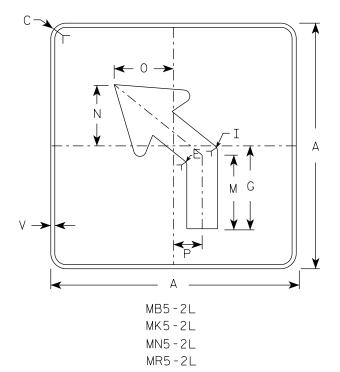
PLOT NAME :

## M5-1L MM5-1L M05-1L MP5-1L





HWY:



### NOTES

- 1. Signs are Type II Type H reflective except as shown

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M5-1 and M5-2 Background White Message – Black

MB5-1 and MB5-2 Background - Blue

Message - White

MK5-1 and MK5-2 Background - Green

Message - White

MM5-1 and MM5-2 Background - White

Message - Green

MN5-1 and MN5-2 Background - Brown

Message - White

M05-1 and M05-2 Background - Orange - Type F Reflective

Message - Black

MP5-1 and MP5-2 Background - White

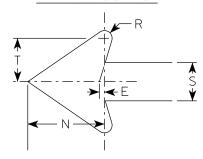
Message - Blue

MR5-1 and MR5-2 Background - Brown

Message - Yellow

- 5. M5-1R same as M5-1L except arrow points right.
- 6. M5-2R same as M5-2L except arrow tilts right.

### ARROW DETAIL



PLOT NAME :

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	21		1 1/2	3/8	3/8		7	3 3/8	5/8	2	1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8	2	1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

COUNTY:

STANDARD SIGN M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Forstate Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_M51.dgn

PROJECT NO:

PLOT DATE: 13-FEB 2023 10:05

PLOT BY : dotc4c

- 1. Signs are Type II Type H Reflective except as Shown
- 2. Color:

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

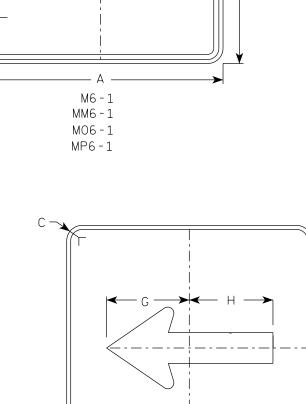
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



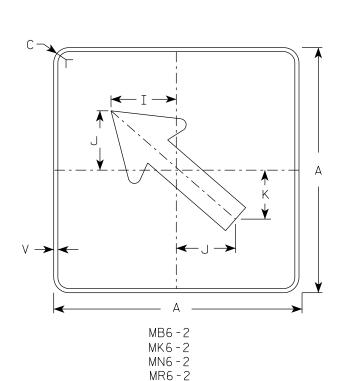
MB6-1

MK6-1

MN6-1

MR6-1

HWY:



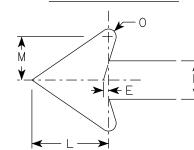
M6-2

MM6 - 2

MO6-2

MP6-2

ARROW DETAIL



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
25	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

For State Traffic Engineer

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_M61.dgn

PROJECT NO:

 $\vee \longrightarrow$ 

PLOT DATE: 13-FEB 2023 1:30

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

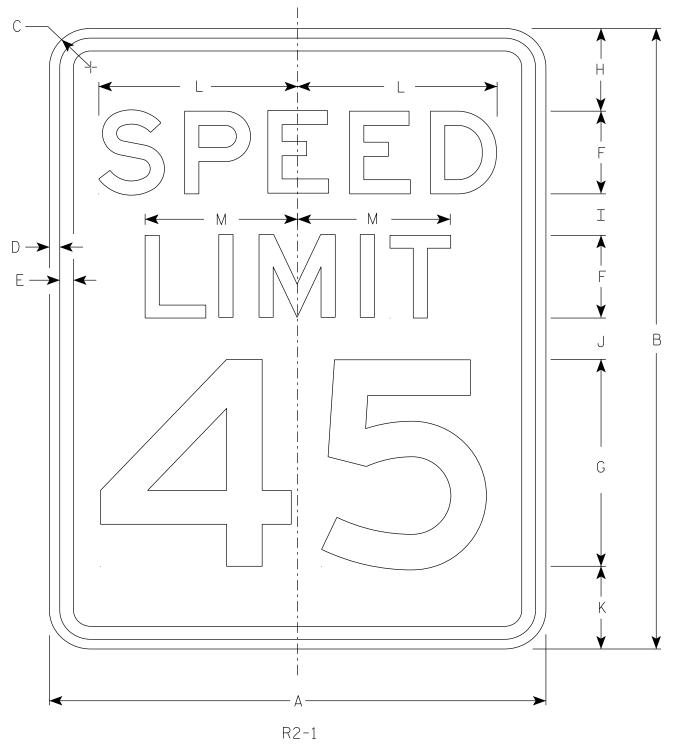
Ε

### NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message – Black

- 3. Message Series E
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.



SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
25	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 1/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 1/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 1/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

COUNTY:

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 2/1/23

For State Traffic Engineer PLATE NO. R2-1.14

HWY:

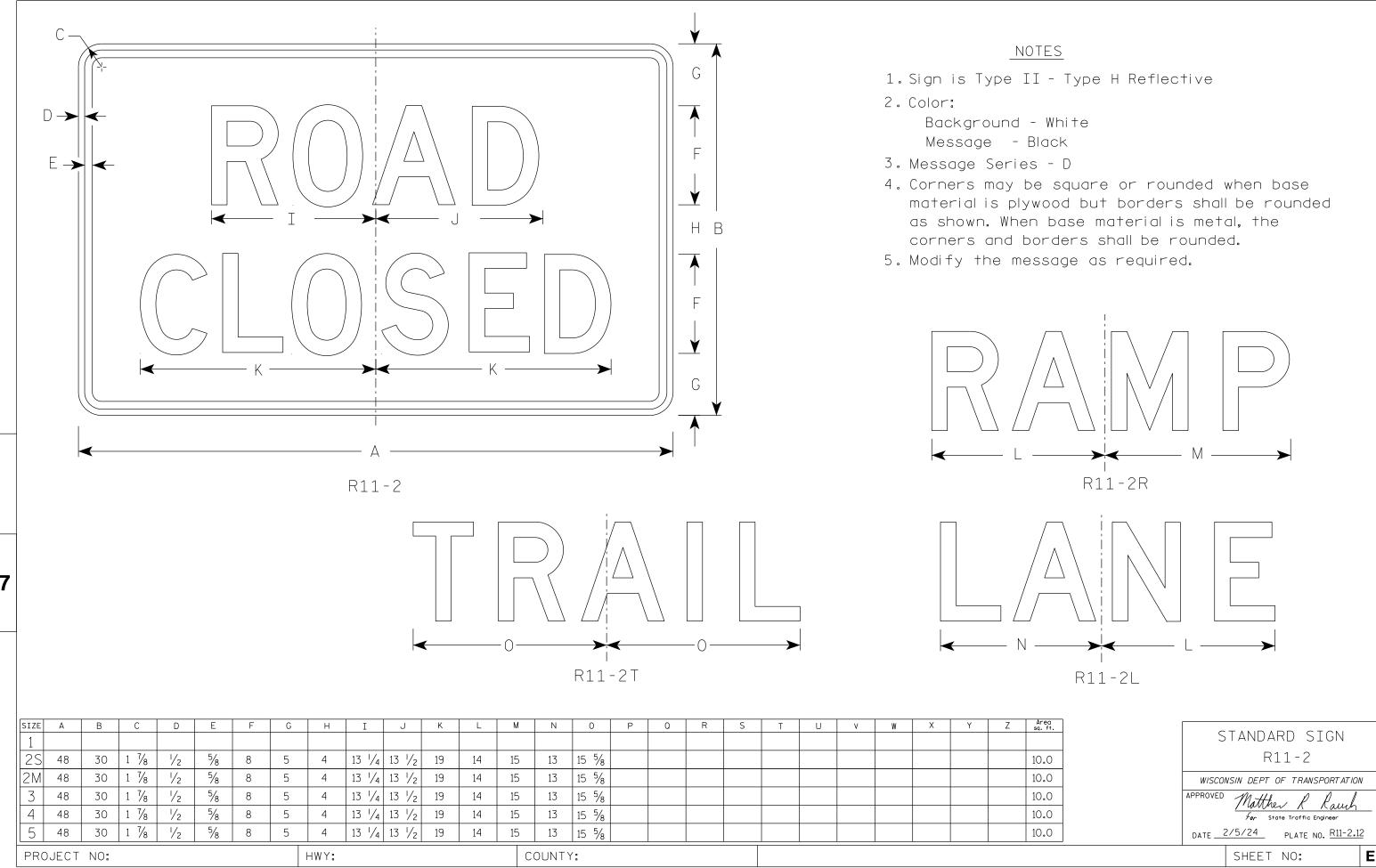
PROJECT NO:

PLOT DATE: 9-JULY 2024 1:47

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R112.dgn

PLOT DATE: 5-FEB 2024 2:10

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

### NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message – Black

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

C —		<u> </u>
		G F H B F W G T
	R11-2B	

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
2M	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
3	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
4	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
5	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 2/5/24 PLATE NO. R11-2B.3

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R112B.dgn

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:20

PLOT BY : mscj9h

WISDOT/CADDS SHEET 42



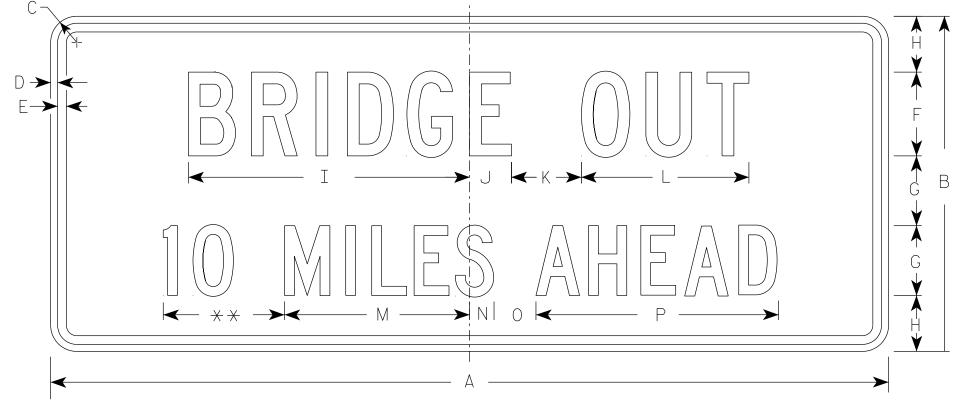
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White

Message – Black

3. Message Series - C

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



R11-3C

\*\* See Note 5

SIZE Α В D Q R U 36 15 1 1/2 1/25/8 2 1/2 13 1/4 2 1/4 3 1 1/2 2 10 3/4 7 1/8 3.75 1 1/8 5/8 13 1/4 1 3/4  $17 \frac{3}{8}$ 11 1/8 10.0 60 24 1/2 5 20 1/8 3 5 12 2M 1 1/8 5/8 60 24 13 1/4 1 3/4  $17 \frac{3}{8}$ 1/2 20 1/8 3 5 12  $11 \frac{7}{8}$ 10.0 3 4

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Lauch
For State Traffic Engineer

DATE <u>2/5/24</u>

PLATE NO. R11-3C.4

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R113C.dgn

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:52

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

Ε

### NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

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



K11-2

SIZE	Α	В	С	D	E	F	G	Ι	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	60	30	1 1/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 1/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew K Kaush For State Traffic Engineer

SHEET NO:

DATE 2/5/24

PLATE NO. R11-4.4

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R114.dgn

HWY:

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:54

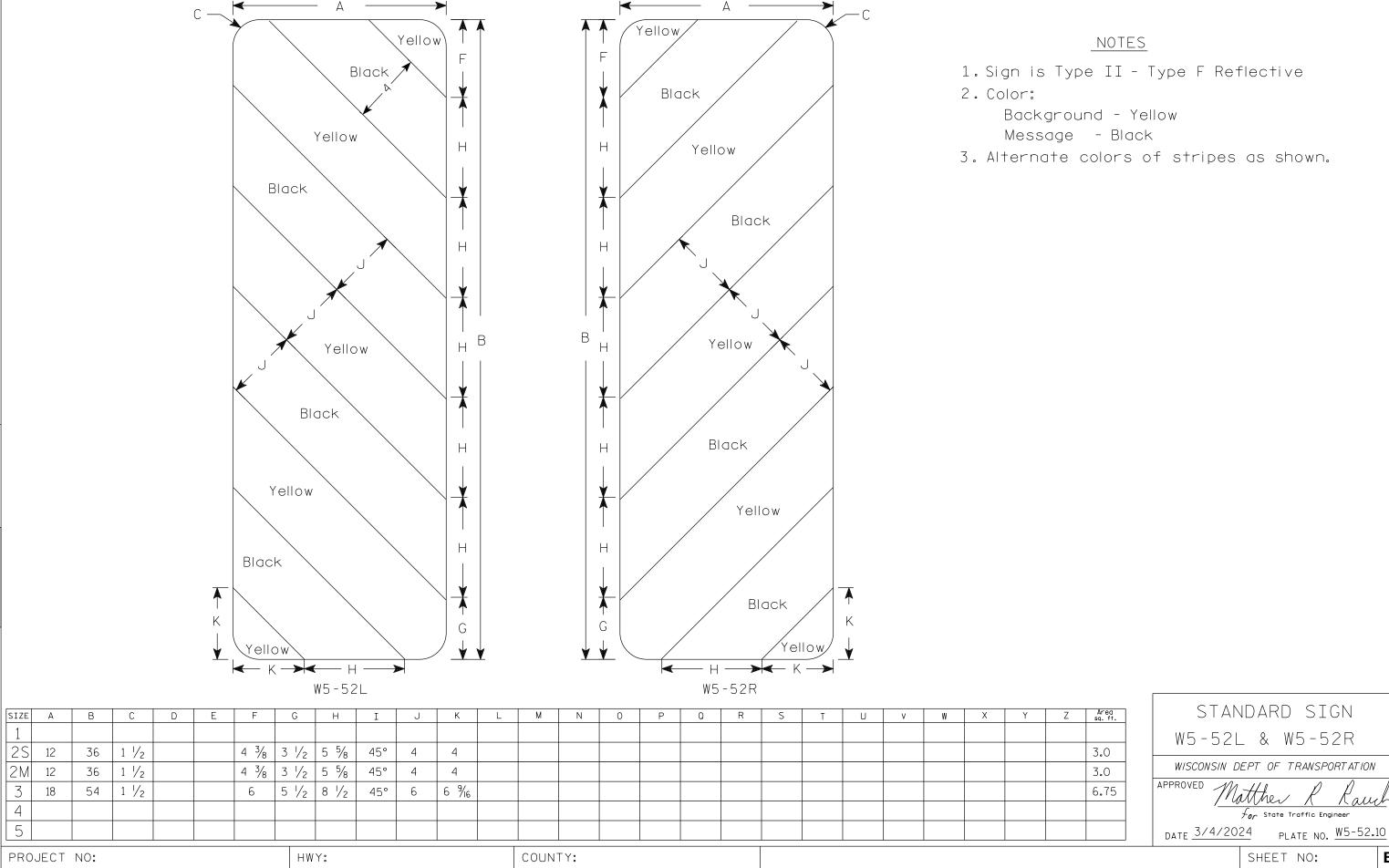
PLOT BY: mscj9h

PLOT NAME: PLOT SCALE: \$\$.

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

\_\_\_\_\_\_

7



PLOT DATE: 4-MARCH 2024 11:57 PLOT NAME : PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 PLOT BY : dotc4c

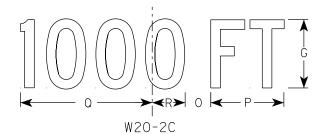


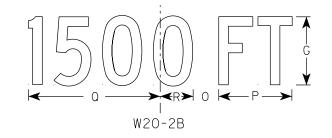
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

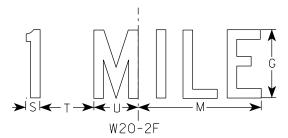
- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D.
  Line 2 is Series D for AHEAD and
  Series C for all other distances.

S N O P
W20-2D









SIZE	А	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.
	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
25	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R

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

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W202.DGN

PROJECT NO:

PLOT DATE: 10-JAN 2024 11:36

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$WISDOT/CADDS SHEET 42

W20-2A

HWY:



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

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

1
W20-3D
$\begin{array}{c c} \hline  & & & \\ \hline $
W20-3B
W20-3G

W20-3A

HWY:

SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 1/8	12 1/2	11	9	6	10 1/8	2 1/2	1 1/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4 1 3/4	9.0
25	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

HEET NO:

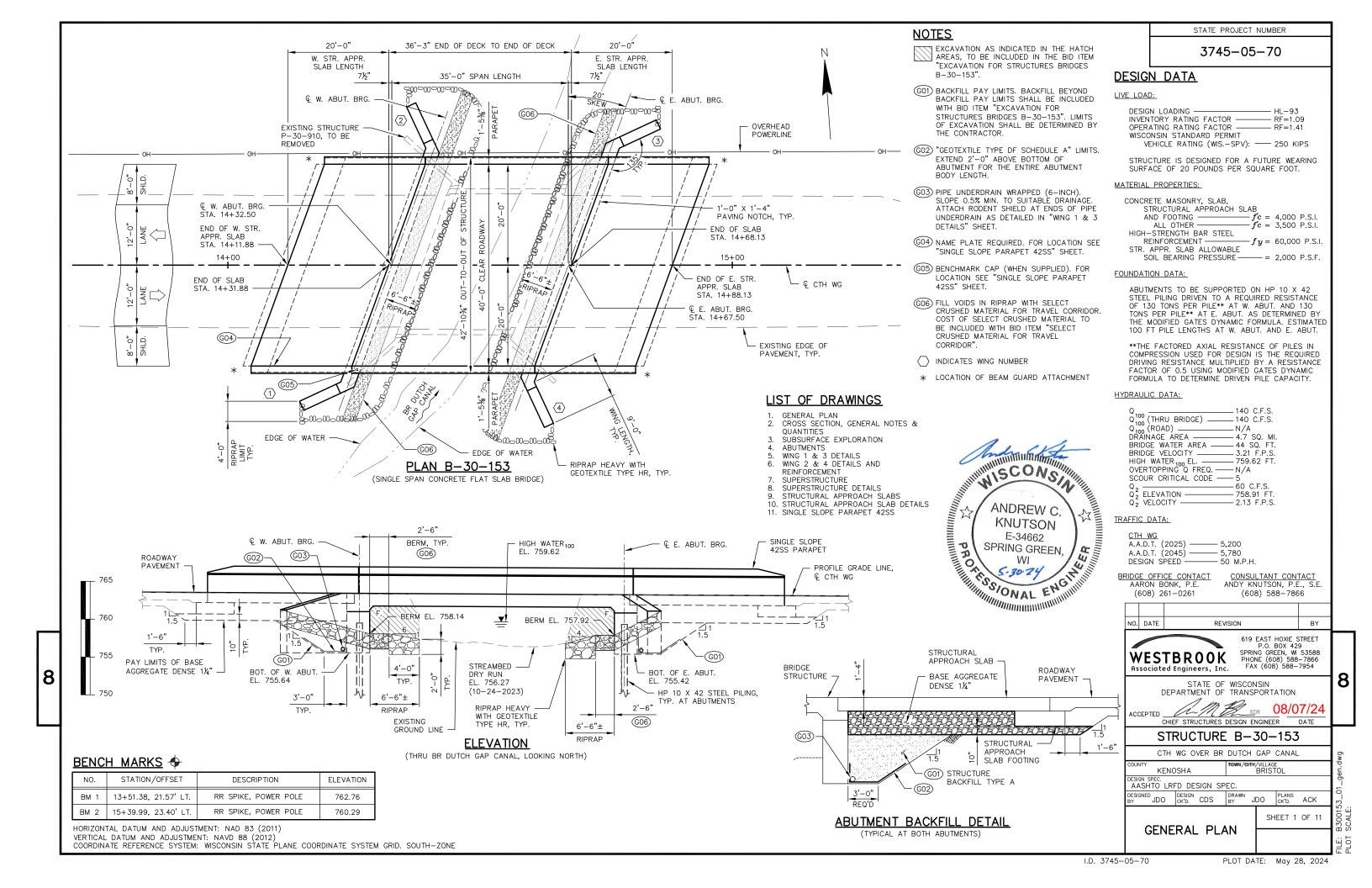
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W203.DGN

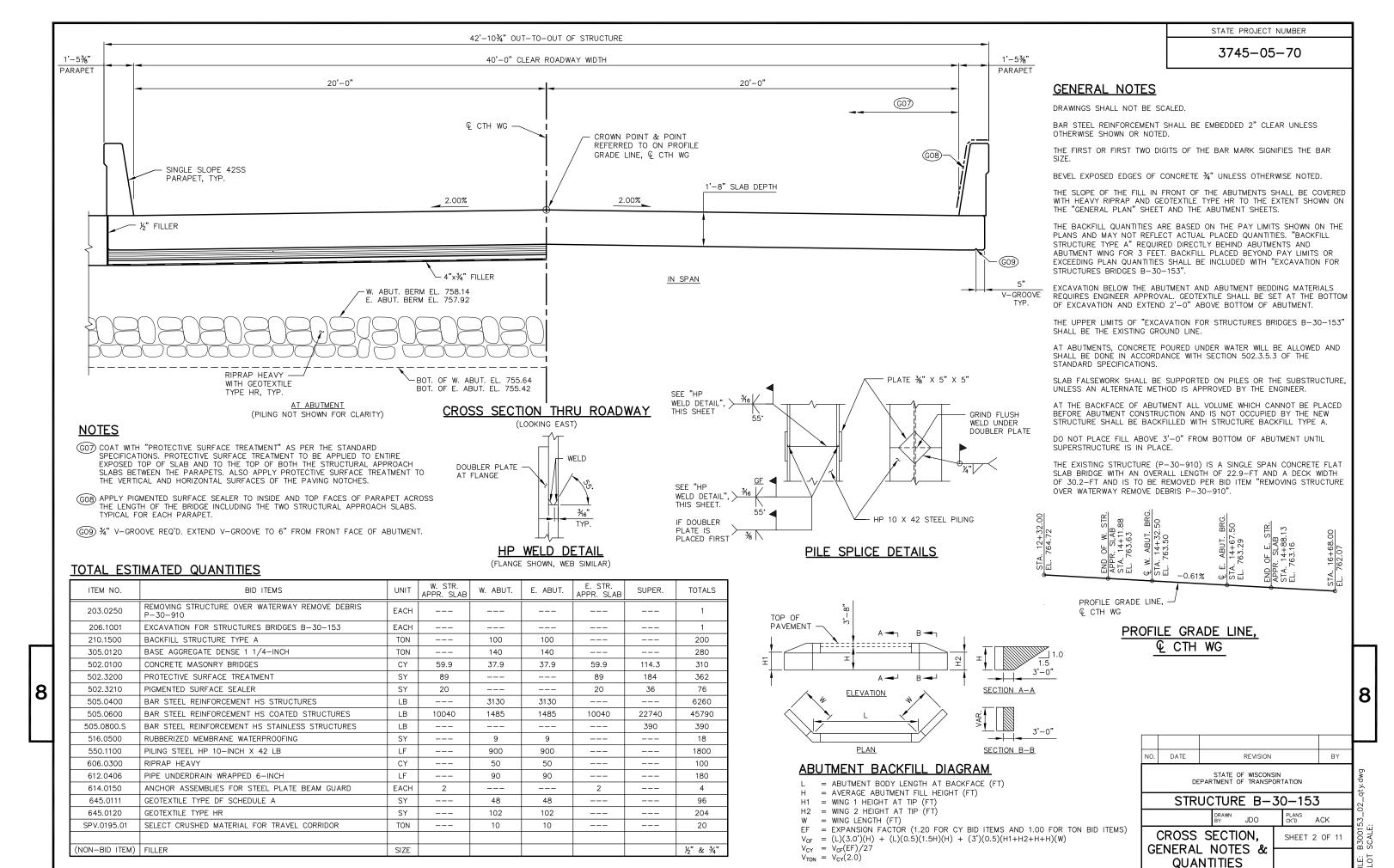
PROJECT NO:

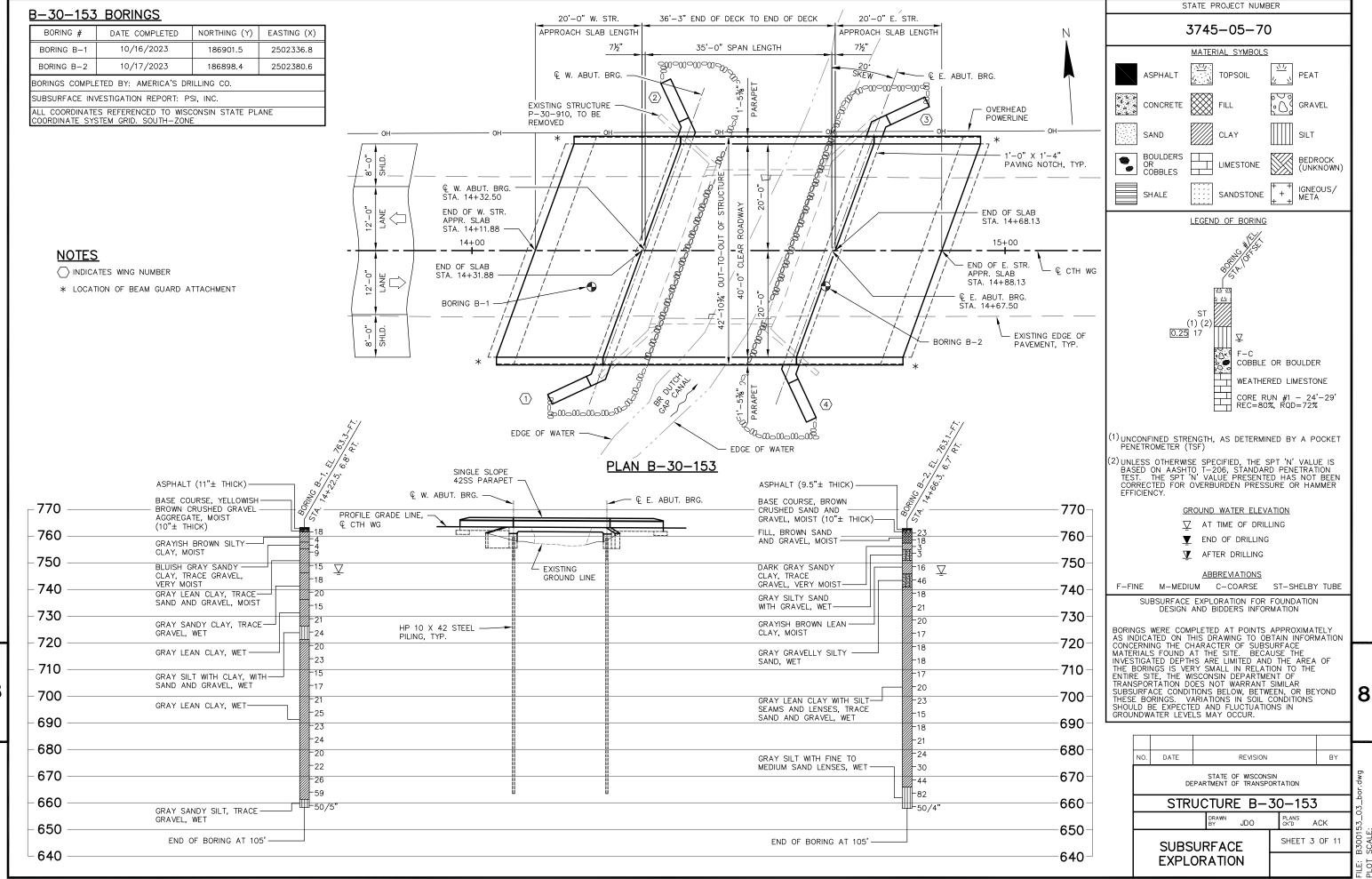
COUNTY: PLOT DATE: 10-JAN 2024 12:02

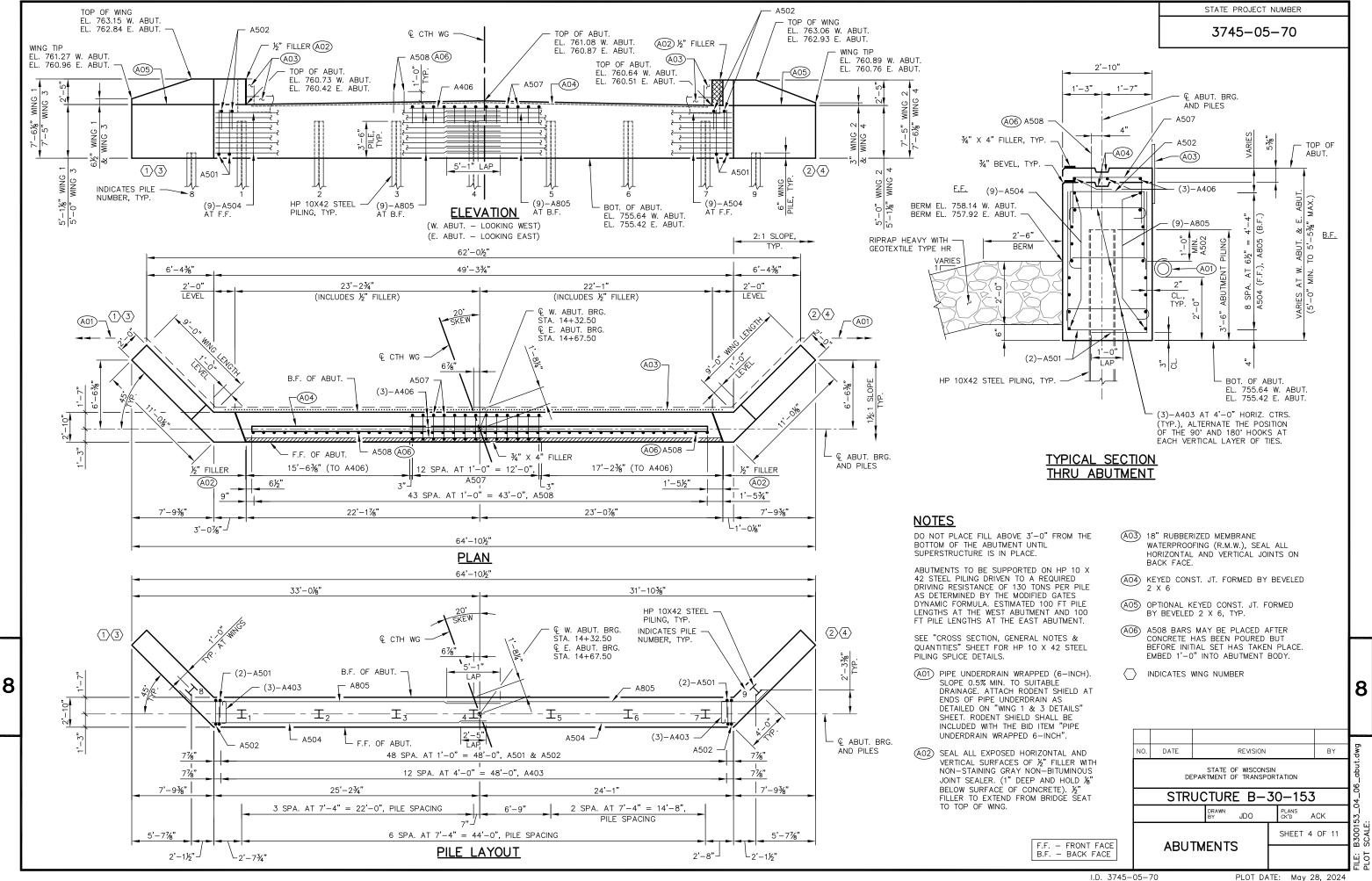
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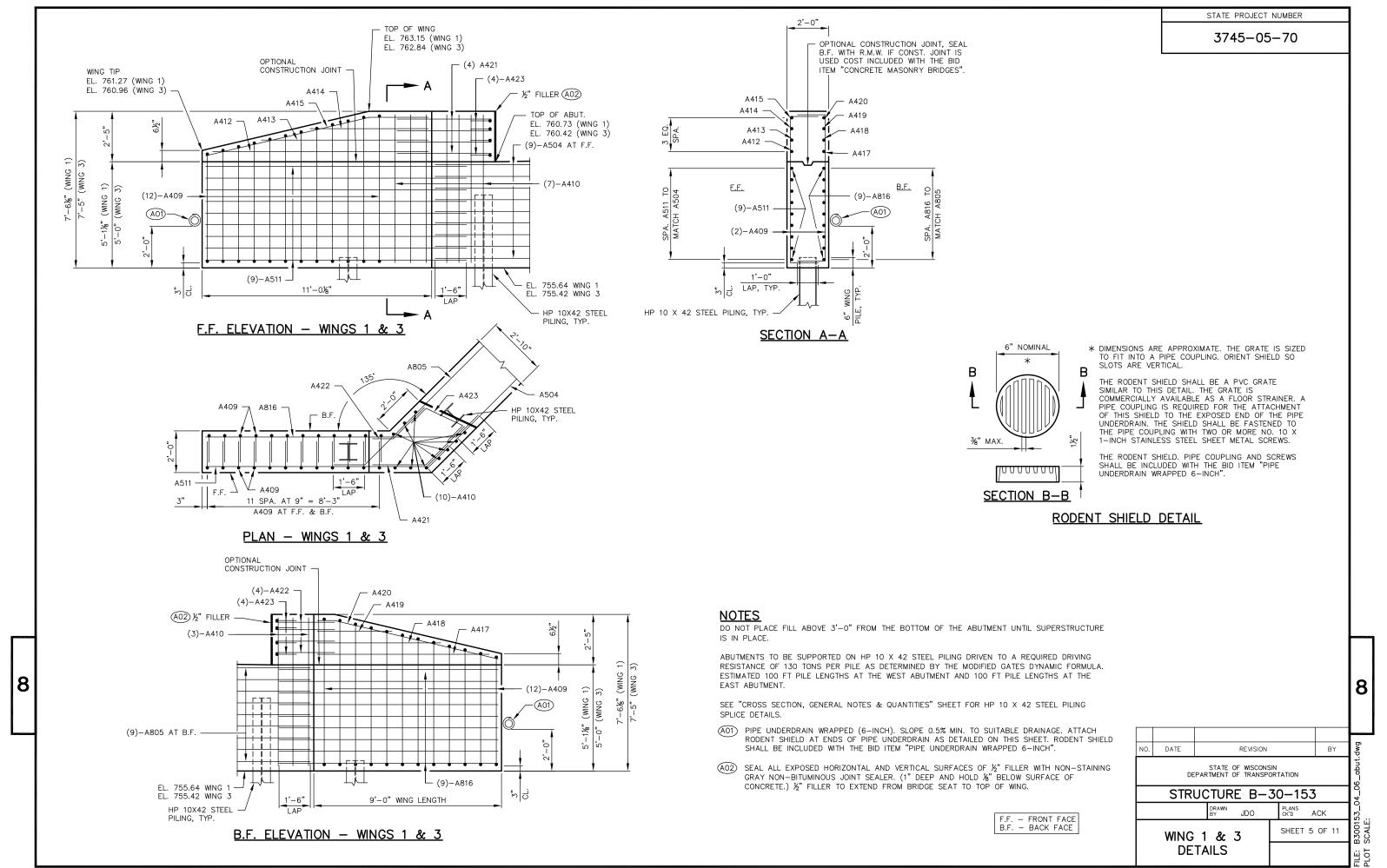
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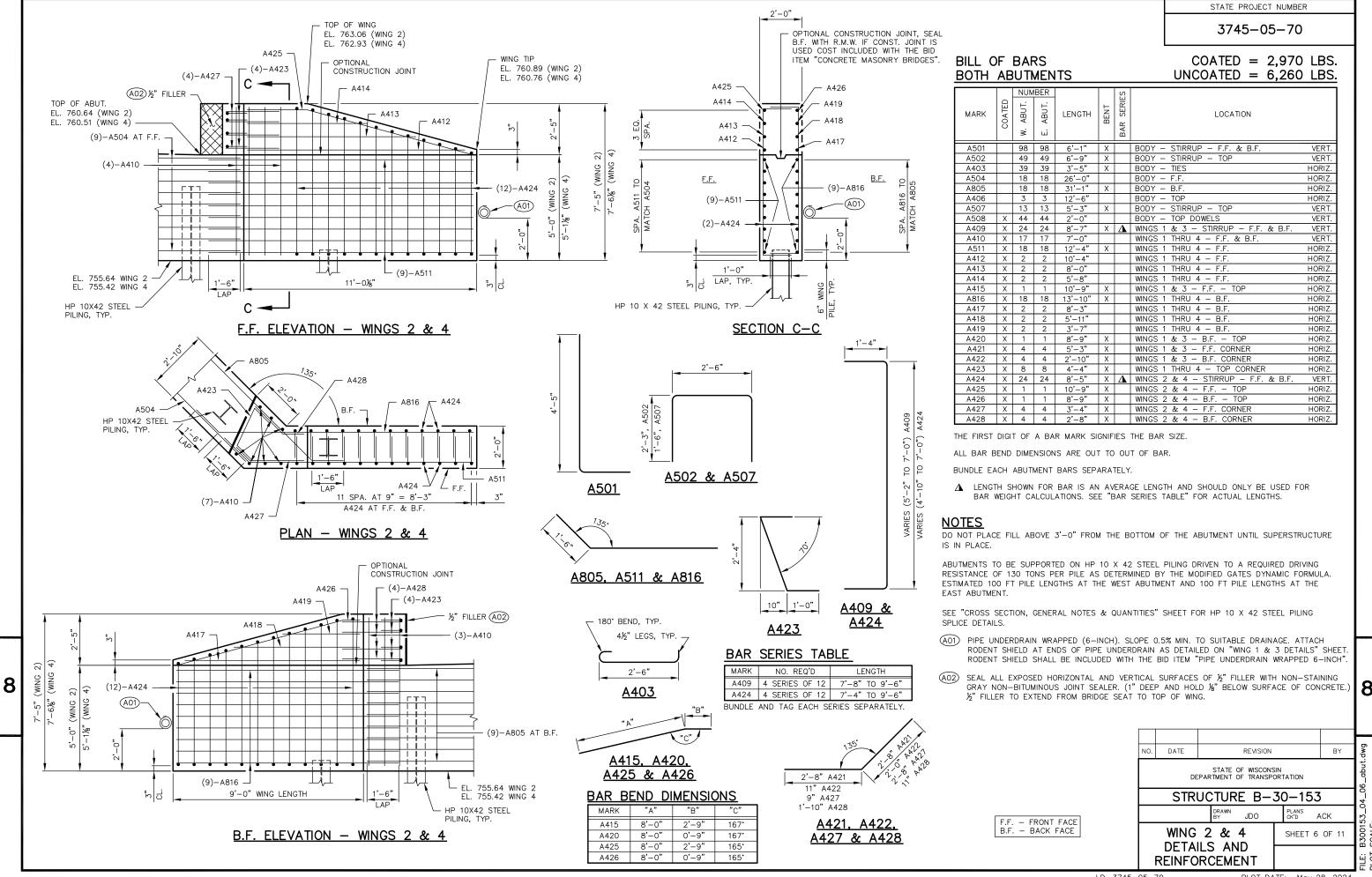


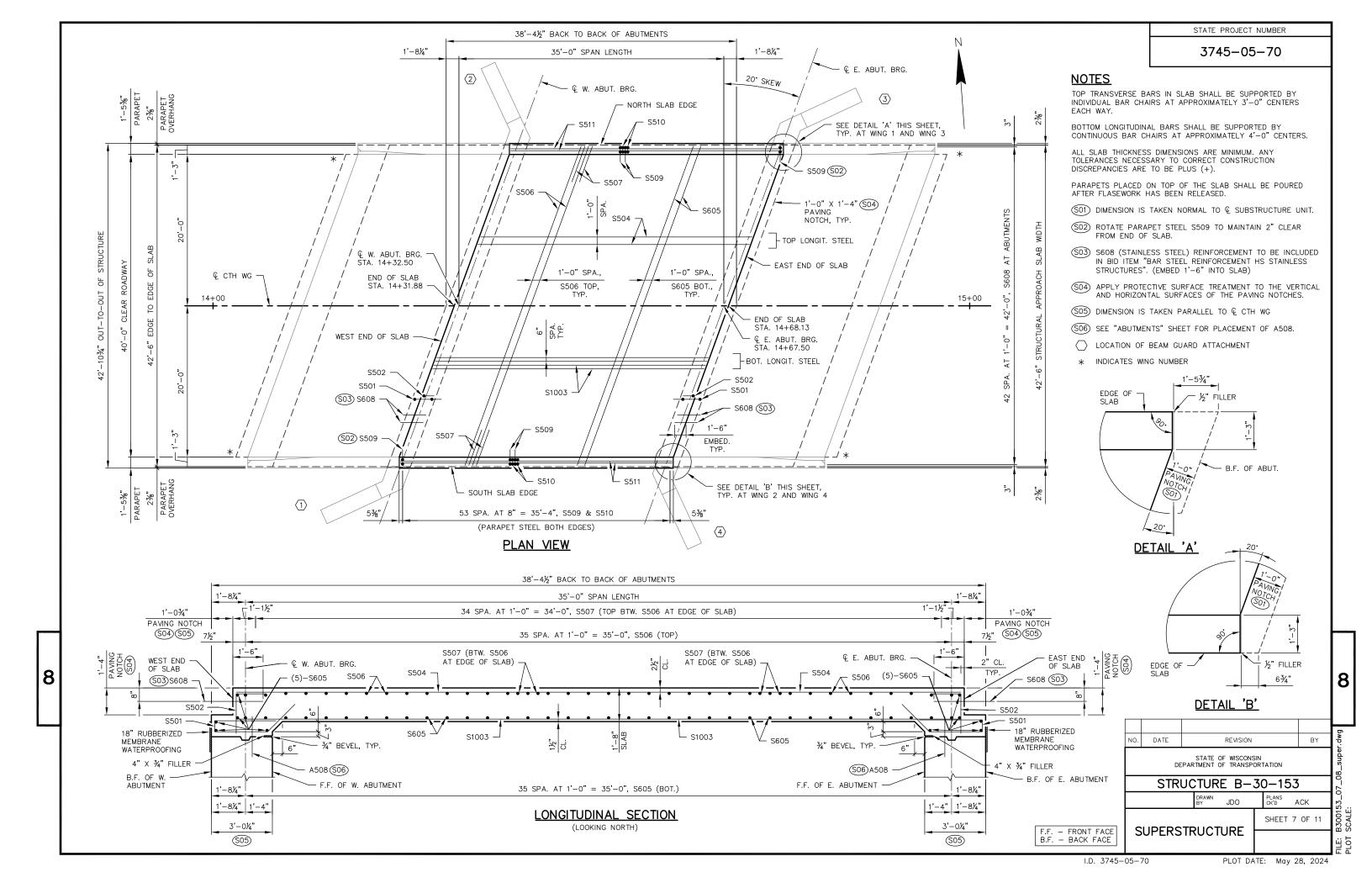


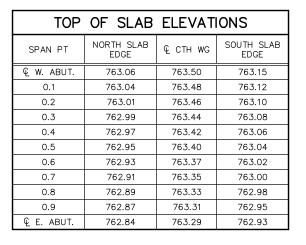












#### **NOTES**

CAMBER SPAN AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

- \$603 S608 (STAINLESS STEEL) REINFORCEMENT TO BE INCLUDED IN BID ITEM "BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES". (EMBED 1'-6" INTO SLAB)
- \$07) 34" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.

#### 42'-1034" OUT-TO-OUT OF STRUCTURE 1'-5%" 20'-0" 20'-0" 1'-5%" PARAPET PARAPET 2%" 42 SPA. AT 1'-0" = 42'-0", TOP STEEL S504 2%" PARAPET PARAPET OVERHANG OVERHANG F CTH WG SEE "SINGLE SLOPE -PARAPET 42SS" SHEET FOR DETAILS, TYP. CROWN PT. AND POINT S507 (BTW. S506 REFERRED TO ON PROFILE (8)-S511(8)-S511AT EDGE OF SLAB) S506 (\$03) S608 S507 (BTW. S506 GRADE LINE, & CTH WG AT EDGE OF SLAB) S506 S504 S504 2.0% 2.0% \_ S502 S509 NORTH - SOUTH EDGE EDGE OF SLAB OF SLAB (\$07 S1003 └ S1003 \$605 CL. TYP. V-GROOVE, 84 SPA. AT 6" = 42'-0", BOTTOM STEEL S1003 42 SPA. AT 1'-0" = 42'-0", S501 & S502 (ABUTMENTS) 42'-6" EDGE TO EDGE OF SLAB AT ABUTMENTS IN SPAN

CROSS SECTION THRU ROADWAY

#### (LOOKING EAST)

#### SURVEY TOP OF SLAB ELEVATIONS

	Ç W. ABUT. BRG.	5/10 PT.	€ E. ABUT. BRG.
NORTH SLAB EDGE			
€ CTH WG			
SOUTH SLAB EDGE			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE  ${\mathbb Q}$  OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

## 

#### SLAB CAMBER DIAGRAM

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

LESS SLAB THICKNESS

PLUS CAMBER

LUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS TOP OF SLAB FALSEWORK ELEVATION.

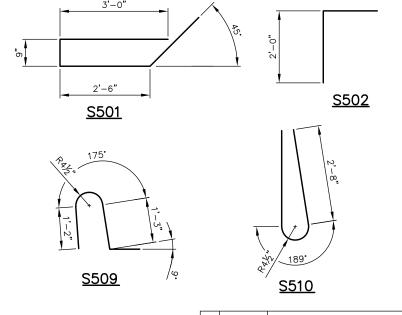
#### BILL OF BARS SUPERSTRUCTURE

COATED = 22,740 LBS.STAINLESS = 390 LBS.

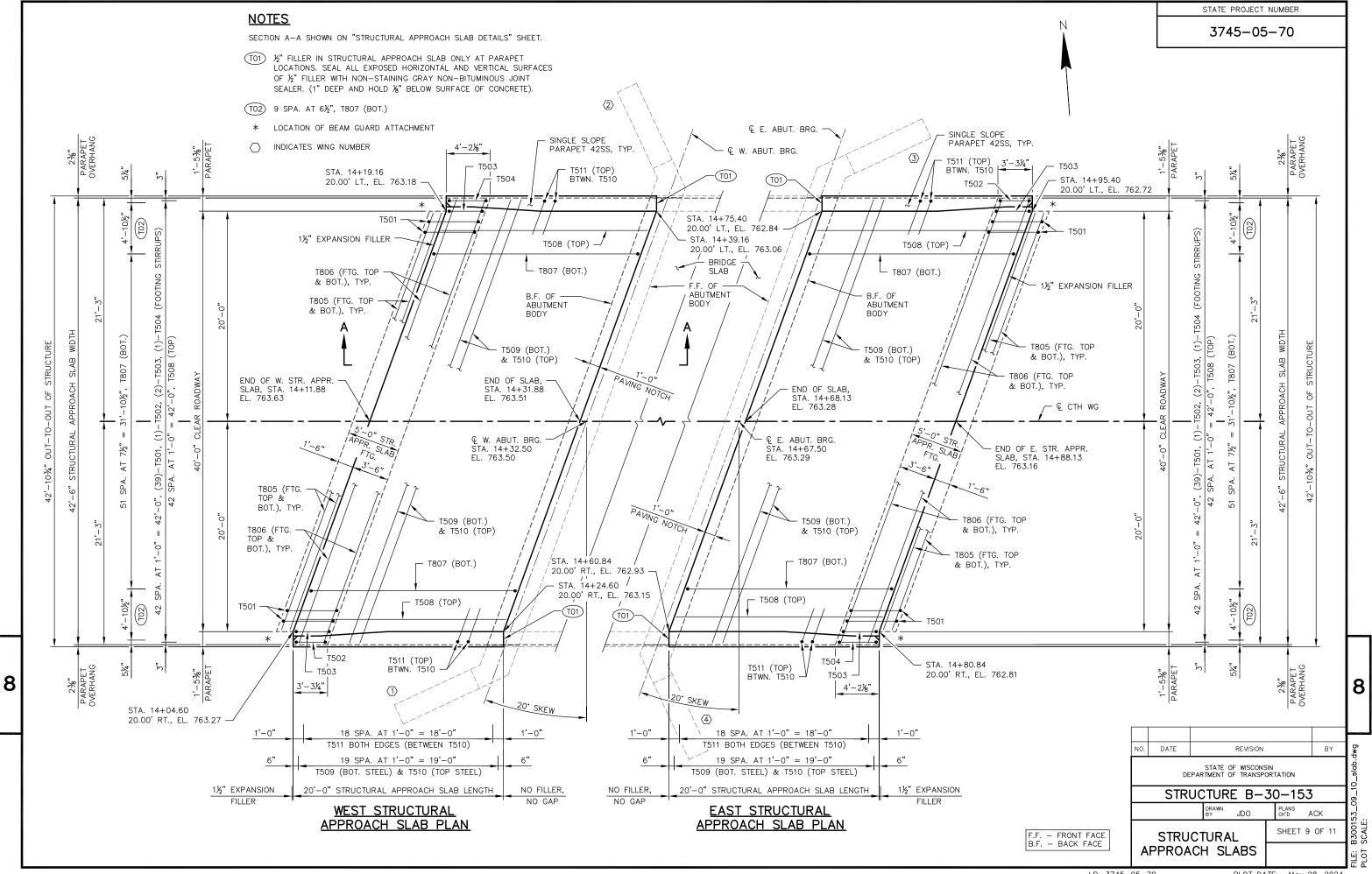
	NUM	BER SS			ES		
MARK	LENGTH	BENT	BAR SERIES	LOCATION			
S501	86		8'-1"	Х		SLAB AT ABUTMENT — TIES	LONGIT.
S502	86		3'-5"	Х		SLAB AT ABUTMENT - TIES	LONGIT.
S1003	85		35'-10"			SLAB - BOT.	LONGIT.
S504	43		35'-10"			SLAB - TOP	LONGIT.
S605	46		44'-10"			SLAB - BOT. & OVER ABUTMENTS	TRANS.
S506	36		44'-10"			SLAB - TOP	TRANS.
S507	70		5'-0"			SLAB - TOP AT EDGE OF SLAB	TRANS.
S608		86	3'-0"			SLAB TO STRUCTURAL APPROACH SLAB	LONGIT.
S509	108		4'-5"	Х		PARAPET - STIRRUP	VERT.
S510	108		6'-8"	Х		PARAPET - STIRRUP	VERT.
S511	16		35'-10"			PARAPET	LONGIT.

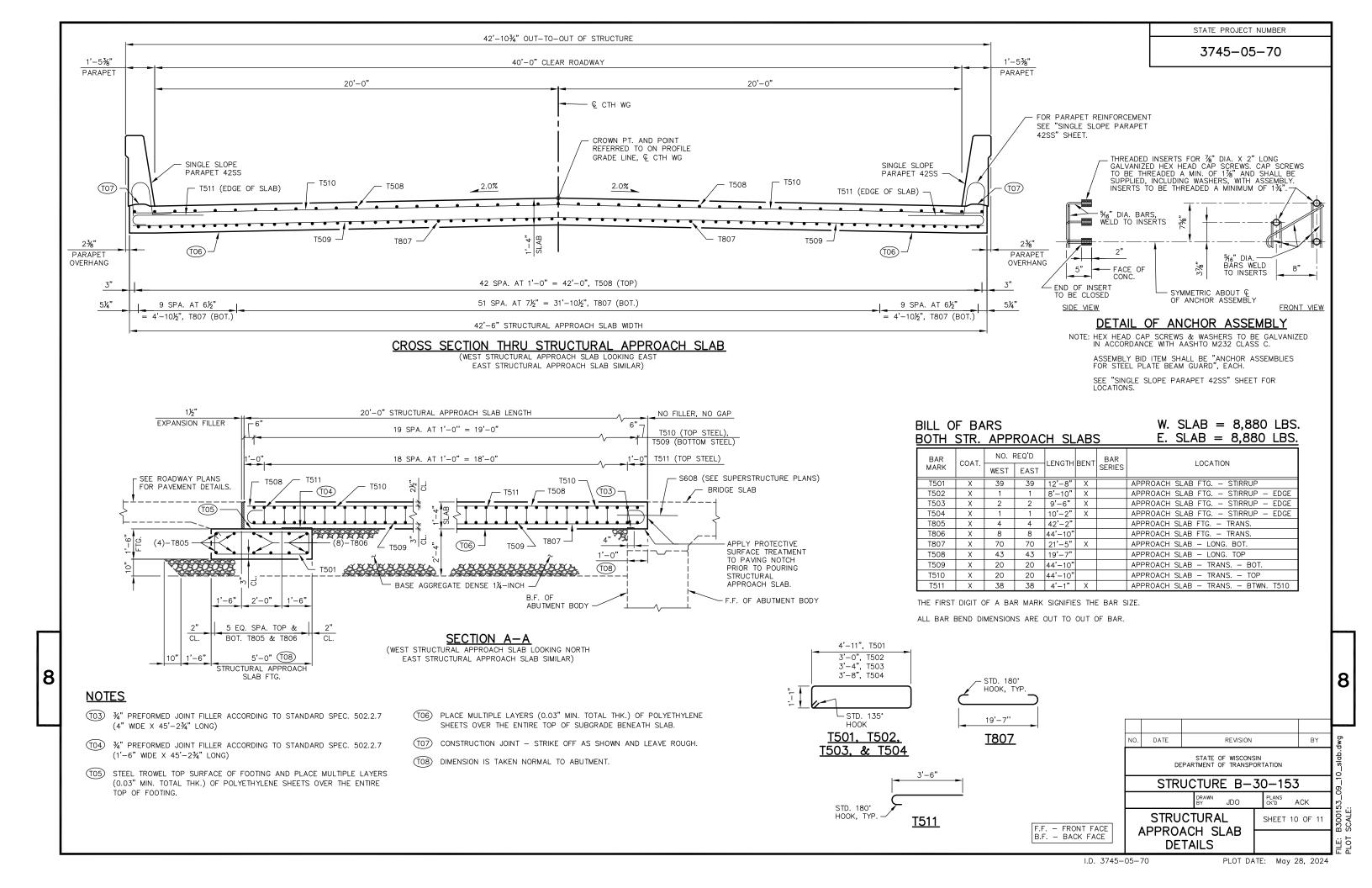
THE FIRST OR FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

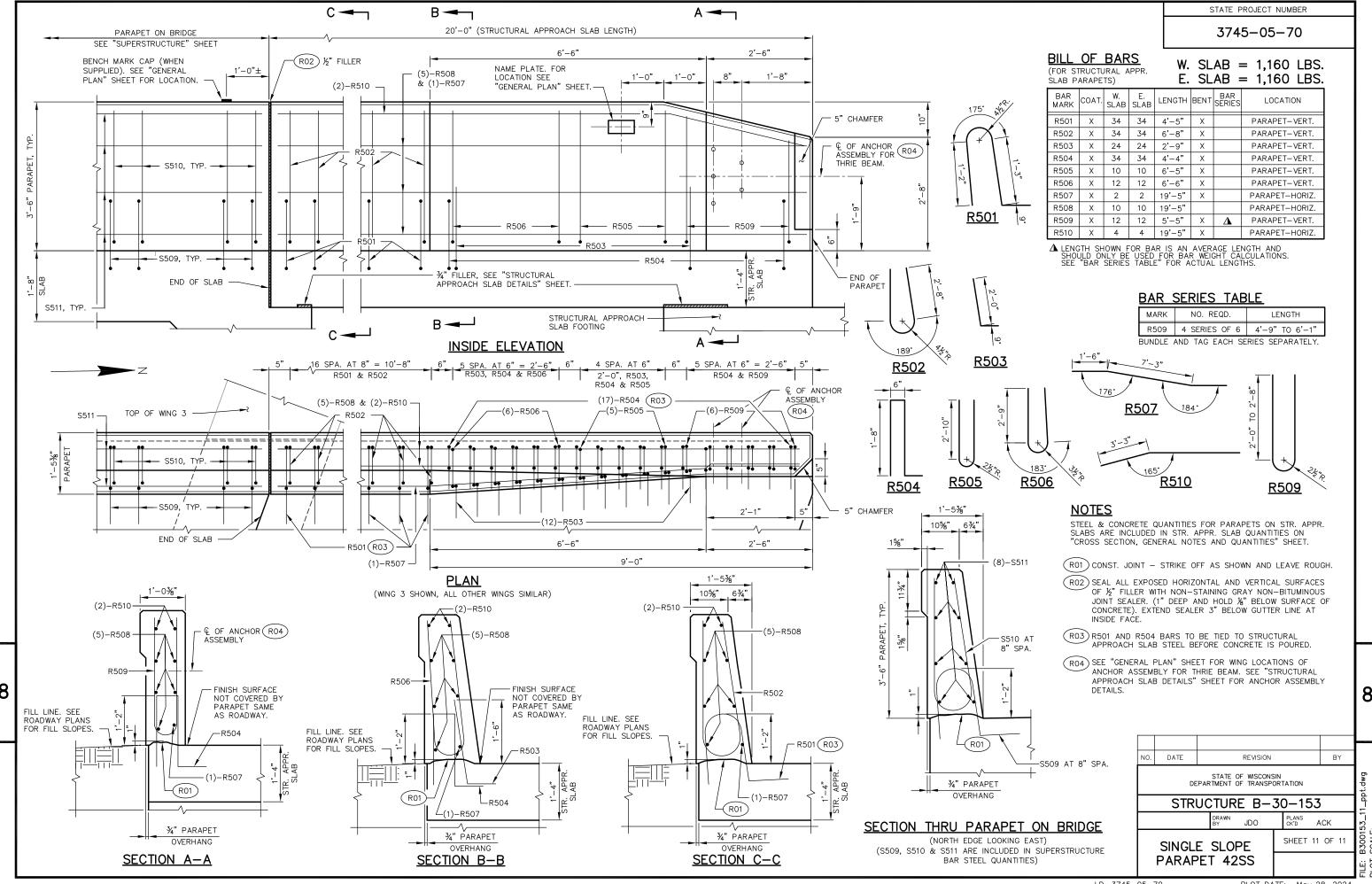
ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.



							6					
Ο.	DATE		REVISION			BY	super.dwg					
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION												
STRUCTURE B-30-153												
		DRAWN BY	JDO		PLANS CK'D A	CK	53_07_ :					
S	UPERS	TRUCT		SHEET 8	OF 11	B300153_ SCALE:						
	DE	TAILS				FILE: B						







#### **DIVISION 1 - WEST APPROACH**

			AREA (SF)		INCRE	MENTAL VOL (CY) (UNAD.	IUSTED)	CUMULATIVE VOL (CY)		
STATION	DISTANCE	CUT	SALVAGED/UNUSABLE	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
			PAVEMENT MATERIAL		NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
11+51.00	0.00	5.68	0.00	1.92	0	0	0	0	0	0
11+65.00	14.00	5.68	0.00	4.17	3	0	2	3	3	1
12+00.00	35.00	11.70	0.00	13.01	11	0	11	14	16	-2
12+32.00	32.00	45.68	22.03	12.26	34	13	15	48	35	0
12+50.00	18.00	43.49	22.08	13.52	30	15	9	78	46	4
12+76.62	26.62	43.59	22.09	16.29	43	22	15	121	65	6
13+00.00	23.38	42.79	22.05	17.13	37	19	14	158	83	7
13+14.58	14.58	42.81	22.09	21.55	23	12	10	181	95	5
13+29.14	14.56	46.73	23.27	22.67	24	12	12	205	110	2
13+39.58	10.44	46.91	23.34	24.24	18	9	9	223	121	0
13+50.00	10.42	42.47	23.48	31.26	17	9	11	240	135	-6
13+54.14	4.14	41.70	23.50	35.46	6	4	5	246	141	-10
13+64.58	10.44	39.52	23.68	48.33	16	9	16	262	161	-23
13+79.14	14.56	38.08	24.04	59.05	21	13	29	283	198	-52
14+00.00	20.86	36.29	24.10	67.80	29	19	49	312	259	-103
14+04.60	4.60	36.13	24.06	63.43	6	4	11	318	273	-115
14+10.28	5.68	18.82	12.69	61.89	6	4	13	324	289	-129
				ST	RUCTURE	B-30-0153				
DIVISION 1 TOTALS					324	164	231			

### **DIVISION 2 - EAST APPROACH**

			AREA (SF)		INCREI	MENTAL VOL (CY) (UNAD.	JUSTED)		CUMULATIVE V	OL (CY)
STATION	DISTANCE	CUT	SALVAGED/UNUSABLE	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
			PAVEMENT MATERIAL		NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
		•		ST	RUCTURI	B-30-0153				
14+89.72	0.00	19.60	9.78	48.75	0	0	0	0	0	0
14+95.40	5.68	40.97	20.58	50.39	6	3	10	6	13	-10
15+00.00	4.60	43.98	20.59	48.97	7	4	8	13	23	-17
15+20.86	20.86	44.64	20.47	47.95	34	16	37	47	69	-45
15+35.42	14.56	44.28	19.34	52.70	24	11	27	71	103	-66
15+45.86	10.44	43.02	19.09	55.25	17	7	21	88	129	-82
15+50.00	4.14	42.56	19.07	54.59	7	3	8	95	139	-88
15+60.42	10.42	41.74	19.05	55.12	16	7	21	111	165	-105
15+70.86	10.44	41.06	19.04	54.26	16	7	21	127	191	-122
15+85.42	14.56	39.83	19.03	47.64	22	10	27	149	225	-144
16+00.00	14.58	40.17	18.99	32.16	22	10	22	171	253	-160
16+18.00	18.00	39.98	18.99	30.76	27	13	21	198	279	-172
16+50.00	32.00	41.80	19.15	19.38	48	23	30	246	316	-184
16+68.00	18.00	25.69	19.16	9.43	22	13	10	268	329	-188
17+00.00	32.00	8.32	0.00	5.19	20	11	9	288	340	-190
17+49.00	49.00	7.55	0.00	0.04	14	0	5	302	346	-182
			DIVISION 2 TOTAL	.S	302	138	277			

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - MASS ORDINATE	[(CUT)-(FILL*FILL FACTOR) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)]	
	PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.	

508

626

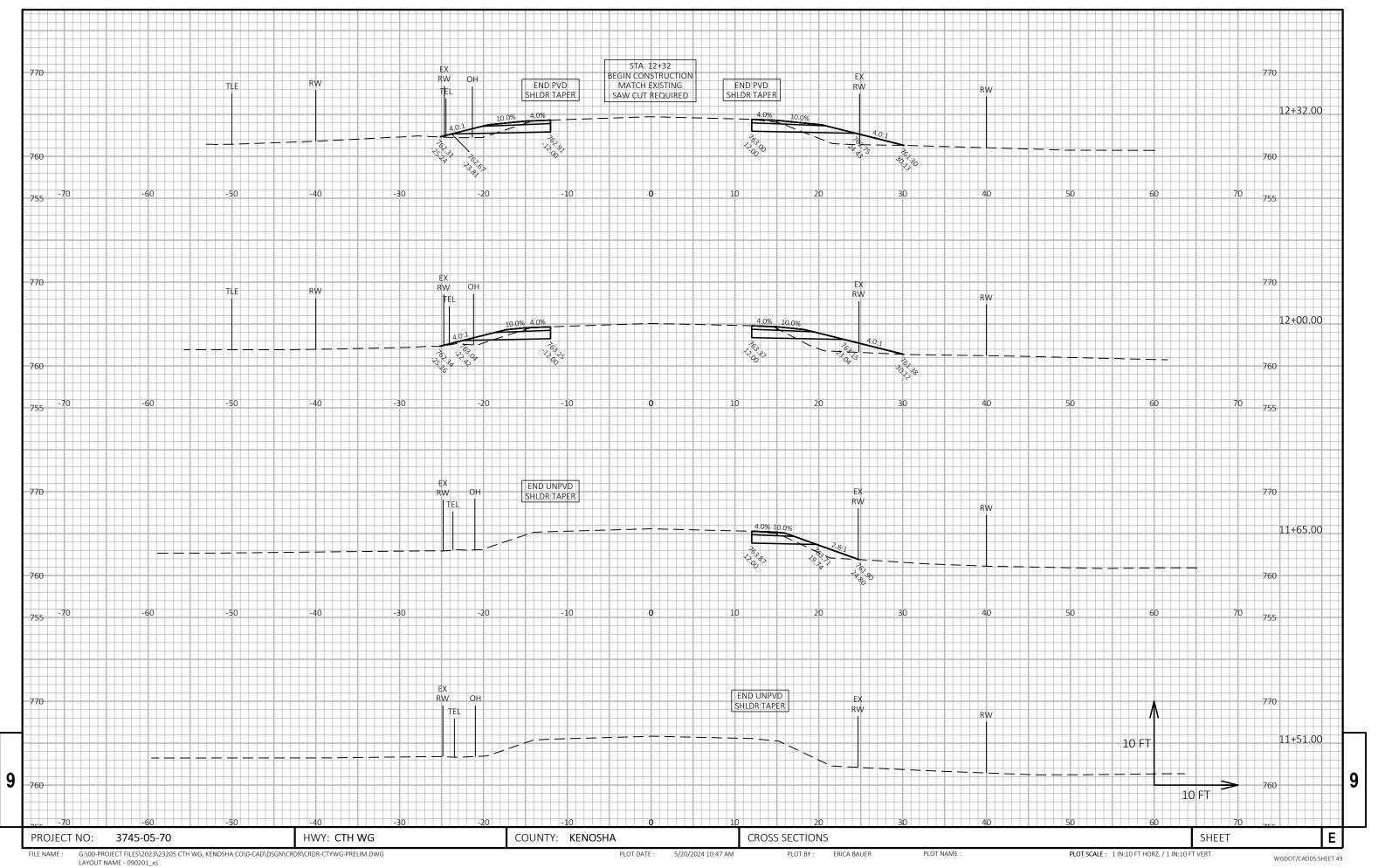
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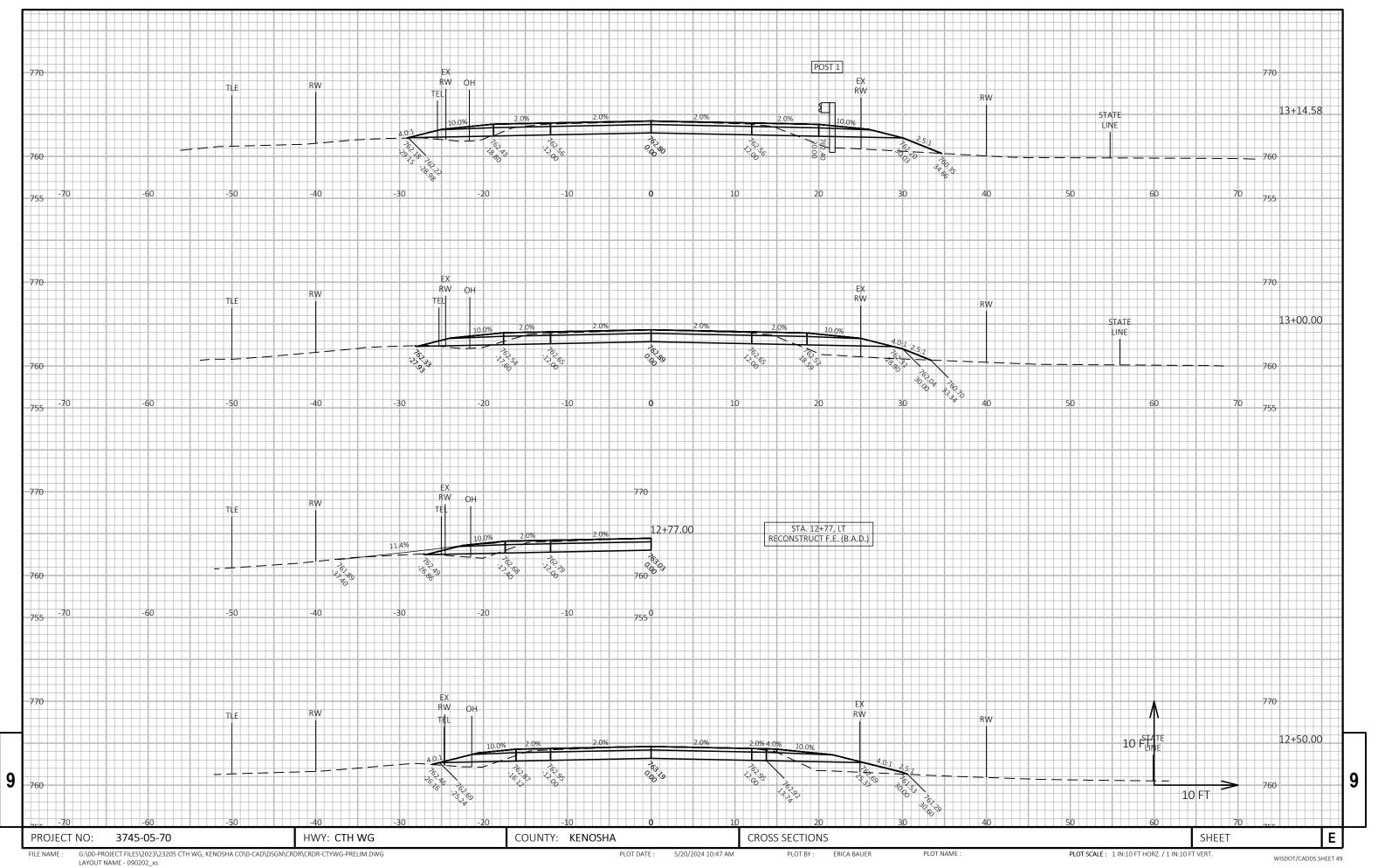
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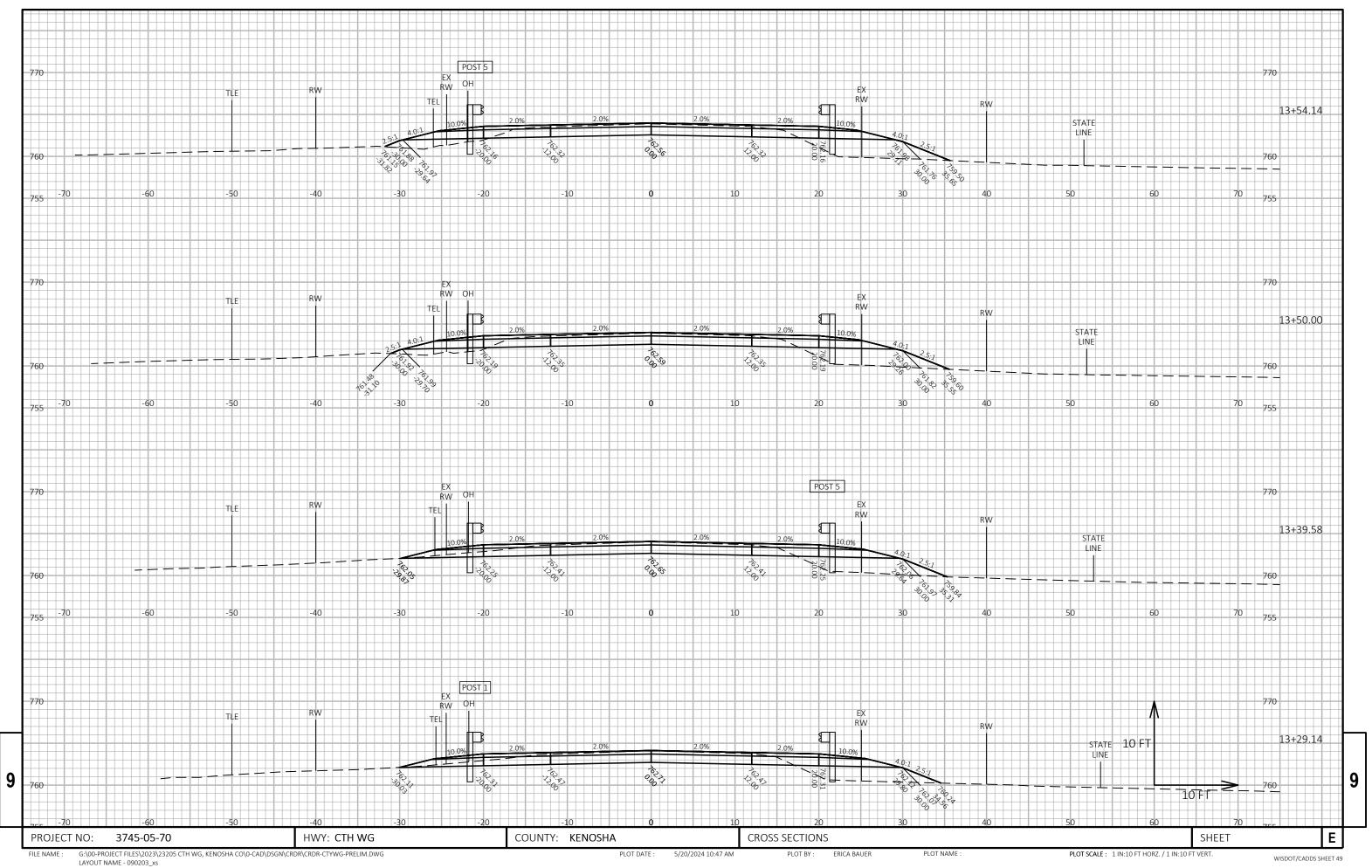
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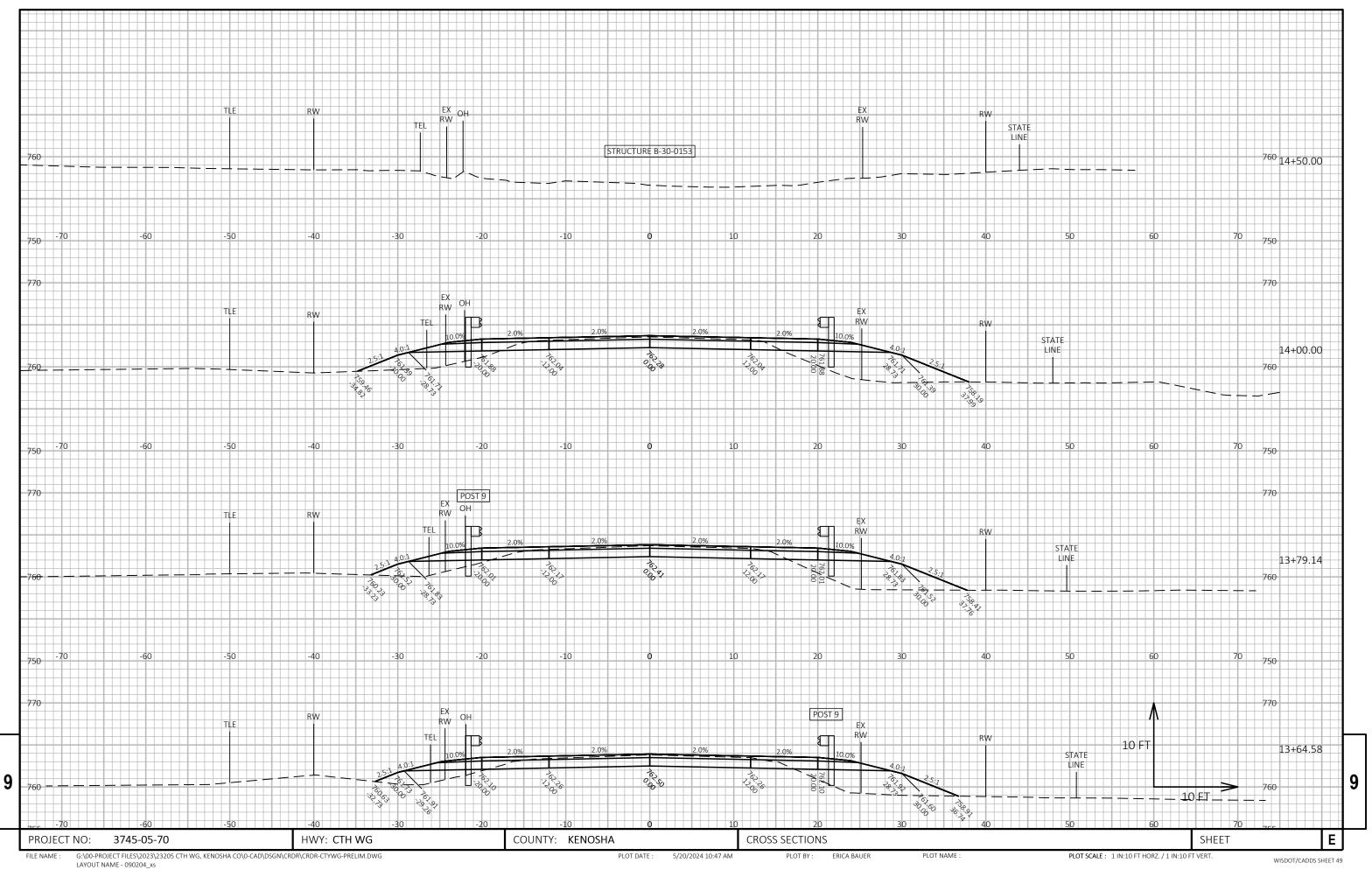
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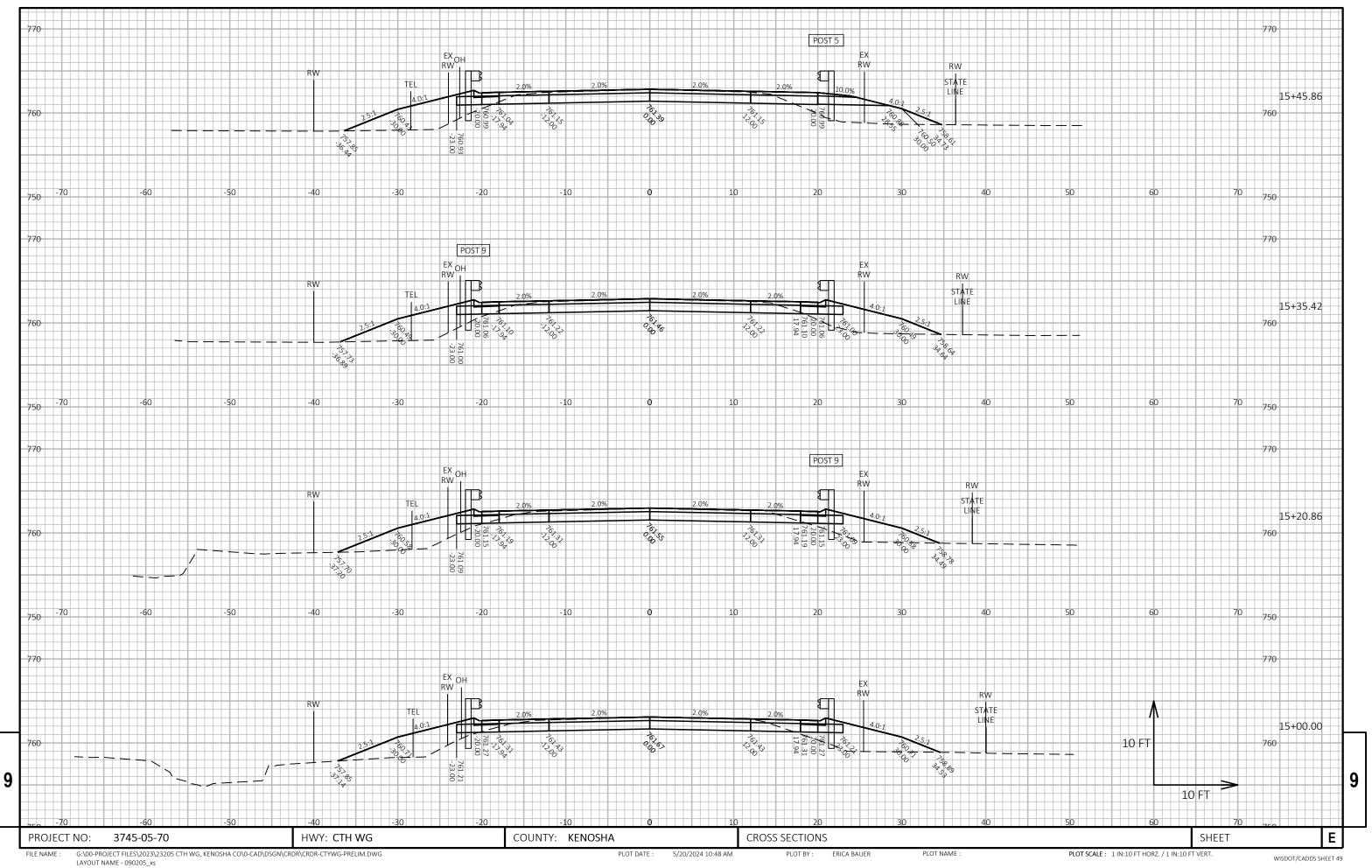
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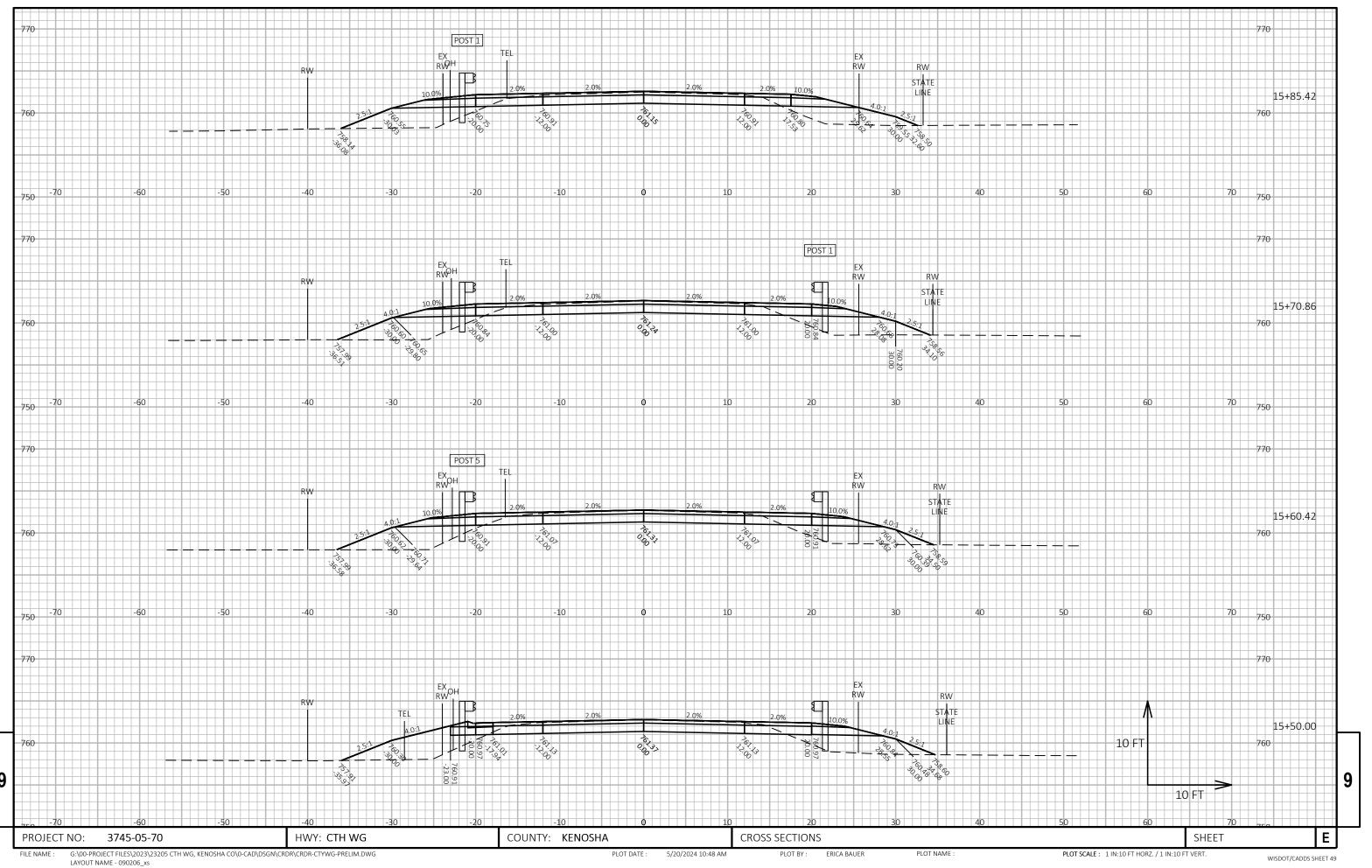


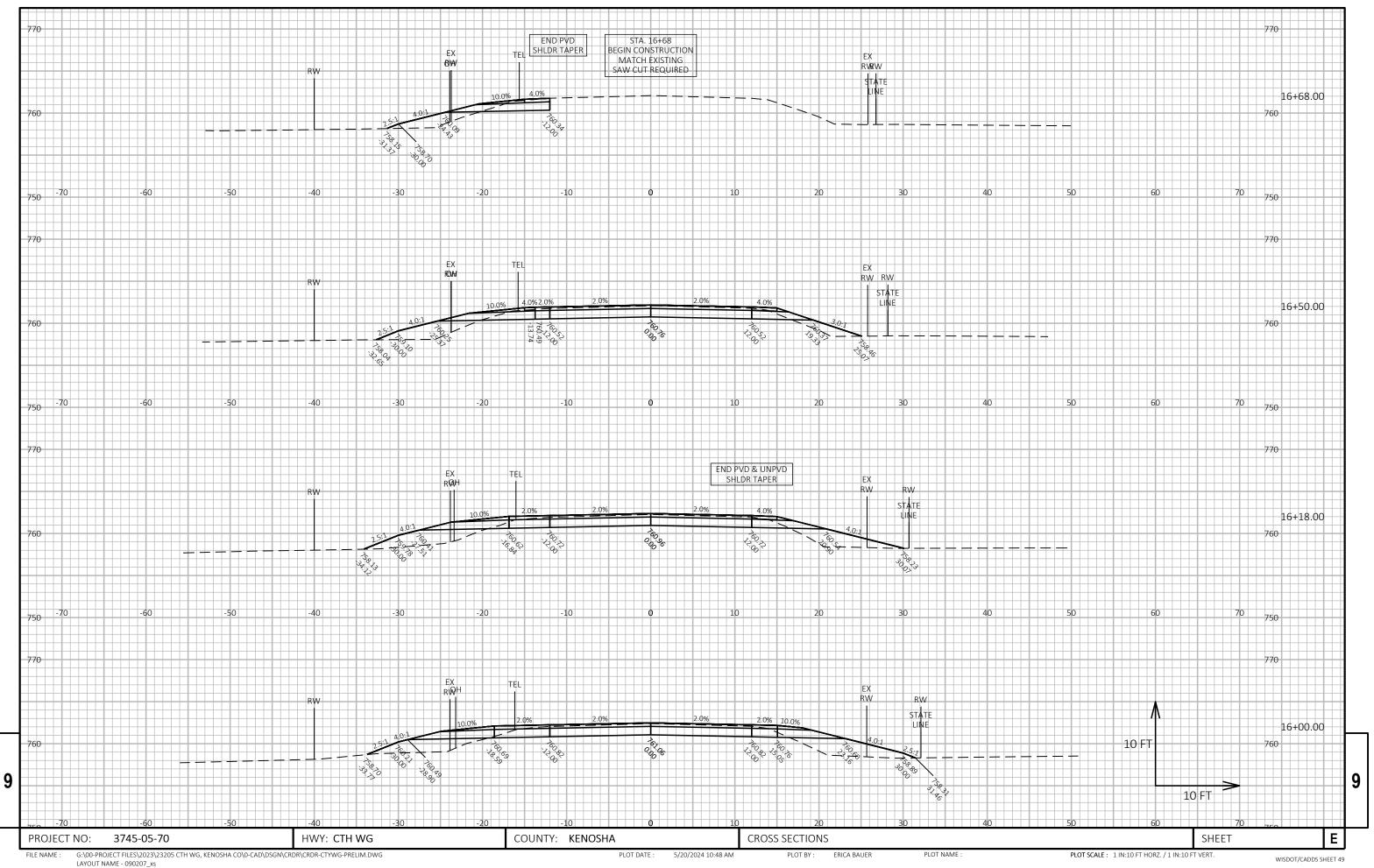


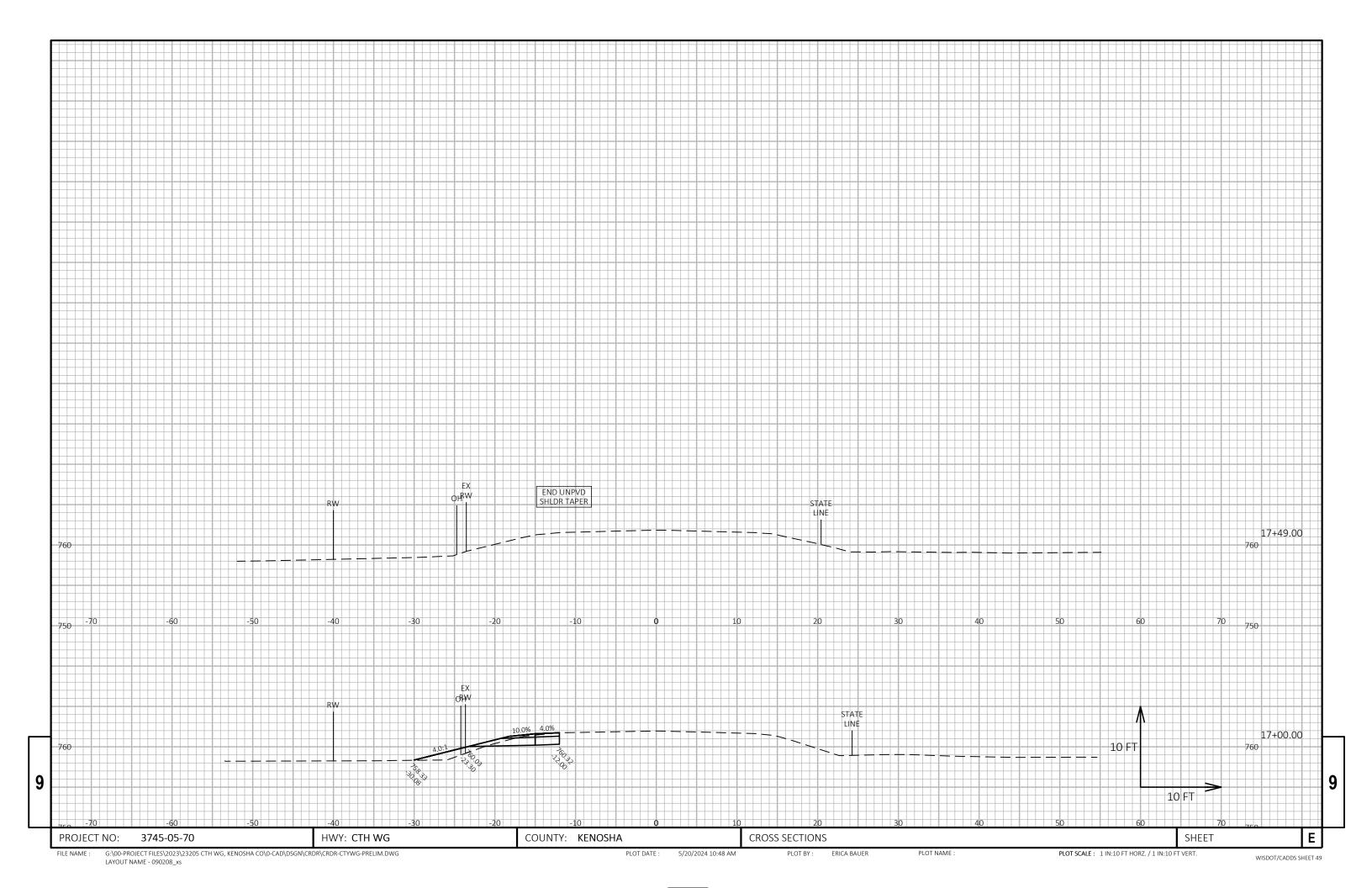




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# Wisconsin Department of Transportation

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