	ORDER OF SHEETS
PROJECT ID: 4150-	ORDER OF SHEETS  Section No. 1 Section No. 2 Section No. 3 Section No. 3 Section No. 4 Section No. 4 Section No. 5 Section No. 6 Section No. 6 Section No. 7 Section No. 8 Section No. 9 Co
17-71	TOTAL SHEETS = 200
COUNTY: DOOR	DESIGN DESIGNATION  A.A.D.T. (2015)
	CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LIN SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (BOX OF PIPE) COMBUSTIBLE FLUIDS

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

# BAILEYS HARBOR - SISTER BAY

CTH Q - STH 42 STH 57 DOOR COUNTY

STATE PROJECT NUMBER 4150-17-7

R-27-E



Title

Typical Sections and Details

Estimate of Ouantities Miscellaneous Quantities

Computer Earthwork Data

Right of Way Plat Plan and Profile Standard Detail Drawings

Structure Plans

Cross Sections

#### DESIGNATION

- 2,800 2035) . 3.300 - 480 . 63/37 . 8.02 PEED • 35 - 55 MPH - 591,300

#### IONAL SYMBOLS

WOODED OR SHRUB AREA

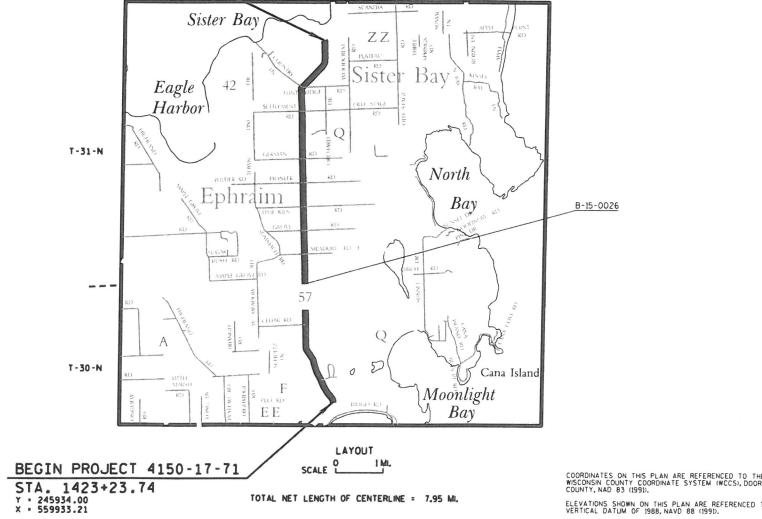
PROFILE GRADE LINE 1////// E LIMITS ORIGINAL GROUND LINE MARSH OR ROCK PROFILE (To be noted as such) GHWAY EASEMENT SPECIAL DITCH RIGHT OF WAY GRADE ELEVATION OR NEW R/W LINE CULVERT (Profile View) ERCEPT UTILITIES LINE ELECTRIC ULVERT FIBER OPTIC CULVERT GAS Pipel SANITARY SEWER BLE FLUIDS STORM SEWER TELEPHONE WATER

UTILITY PEDESTAL

TELEPHONE POLE

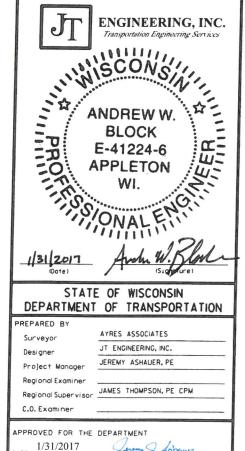
POWER POLE

FILE NAME: X:±Projects±Door±4150-17-00 STH 57±Design±c3d±SheetsPlan±General Sheets±010101.†i.dgn



R-28-E

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 4150-17-71 WISC 2017274



END PROJECT 4150-17-71

STA, 1843+00,91

X

Ь

E

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH SPECIFIED THICKNESS AS OUTLINED IN THE STANDARD SPECIFICATIONS OR AS SHOWN IN THE PLAN.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

EROSION CONTROL FEATURES ARE SHOWN AT APPROXIMATE LOCATIONS, WITH EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

DO NOT USE FERTILIZER NEAR NAVIGABLE WATERWAYS OR WETLANDS.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.

STATIONING, DISTANCES, AND OFFSETS FOR SIGNS AND TRAFFIC CONTROL DEVICES SHOWN IN THE PLANS ARE APPROXIMATE. EXACT LOCATIONS ARE DETERMINED BY THE ENGINEER

ALL DRIVEWAYS ARE TO REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER, OR AS SHOWN ON THE PLAN.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE ALSO MEASURED TO THE FLANGE.

#### UTILITY CONTACTS

#### ATC MANAGEMENT. INC.- ELECTRICITY

GERALD RHODE 801 O'KEEFE ROAD P.O. BOX 6113 DE PERE. WI 54115-6113 PHONE: (920) 338-6523 GRHODE@ATCLLC.COM

#### CHARTER COMMUNICATIONS - COMMUNICATION LINE

NICK FRASE 3315 LINCOLN AVENUE TWO RIVERS, WI54241 PHONE: (920) 763-2216 EXT. 30 MOBILE: (920) 304-6797 NICK.FRASF@CHARTER.COM

#### FRONTIER COMMUNICATIONS OF WILLC-COMM. LINE

RICHARD ENDSLEY 118 DIVISION STREET PLYMOUTH, WI53073 PHONE: (920) 893-7242 MOBILE: (920) 574-6859 RICHARD.J.ENDSLEY@FTR.COM

#### NET LEC LLC- COMMUNICATION LINE

DENNIS LAFAVE 1700 INDUSTRIAL DRIVE GREEN BAY, WI54302 PHONE: (920) 619-9774 DLAFAVE@MI-TECH.US

#### VILLAGE OF SISTER BAY- SEWER

MICHAEL C. SCHELL 2124 AUTUMN COURT P.O. BOX 91 SISTER BAY, WI 54234 PHONE: (920) 854-2246 MOBILE: (920) 421-0257 MIKE.SCHELL@SISTERBAYWI.GOV

#### VILLAGE OF SISTER BAY- WATER

MICHAEL C. SCHELL 2124 AUTUMN COURT P.O. BOX 91 SISTER BAY, WI 54234 PHONE: (920) 854-2246 MOBILE: (920) 421-0257 MIKE.SCHELL@SISTERBAYWI.GOV

# WISCONSIN PUBLIC SERVICE CORPORATION- ELECTRICITY

JEEF PELISCHECK 800 COLUMBUS STREET TWO RIVERS, WI 54241 PHONE: (920) 657-1816 MOBILE: (920) 323-4836 JSPELISCHEK@WISCONSINPUBLICSERVICE.COM

# **CONTACTS** DESIGNER

ANDREW BLOCK JT ENGINEERING, INC. 1077 CENTENNIAL CENTRE BLVD. HOBART, WI 54155 PHONE: (920) 468-4771

#### NORTHEAST REGIONAL SURVEY COORDINATOR

CORMAC MCINNIS 944 VANDERPERREN WAY GREEN BAY, WI54304-5344 PHONE: (920) 492-5638

#### WISCONSIN DNR LIASION

MATTHEW SCHAEVE 2984 SHAWANO AVENUE GREEN BAY, WI 54313 PHONE: (920) 366-1544

## TOWN OF BAILEYS HARBOR TOWN CLERK

DOUGLAS SMITH 2392 COUNTY RD F P.O. BOX 308 BAILEYS HARBOR, WI 54202 PHONE: (920) 839-9509

#### STANDARD ABBREVIATIONS

AEW APRON END WALL BASE AGGREGATE DENSE BAD

ВМ BENCHMARK CENTERLINE C/L CLASS CL CONC CONCRETE

CMCP CORRUGATED METAL CULVERT PIPE CPRC CULVERT PIPE REINFORCED CONCRETE CULVERT PIPE REINFORCED CONCRETE CPRCHE

HORIZONTAL ELLIPTICAL

CY CUBIC YARD DEGREE OF CURVE D DISCH DISCHARGE FΕ FIELD ENTRANCE НМА HOT MIX ASPHALT INVERT INV

LENGTH OF CURVE LEFT MINIMUM MIN

PAVT PAVEMENT РC POINT OF CURVE

PCC POINT OF COMPOUND CURVE PRIVATE ENTRANCE PΕ POINT OF INTERSECTION РΙ PLPROPERTY LINE РΤ POINT OF TANGENCY R RADIUS OF CURVE R/L REFERNCE LINE

R/W RIGHT OF WAY

APRON END WALL FOR CULVERT PIPE RCAEW REINFORCED CONCRETE

REQUIRED

REQD RT RIGHT SALV SALVAGED

STANDARD DETAIL DRAWING SDD

SF SQUARE FOOT STA STATION SQUARE YARD SY TANGENT LENGTH

# ORDER OF DETAIL SHEETS

PROJECT OVERVIEW TYPICAL SECTIONS CONSTRUCTION DETAILS PLAN DETAILS EROSION CONTROL PLAN STORM SEWER PERMANENT SIGNING PLAN DETOUR PLAN

Dial (800) 242-8511 www.DiggersHotline.com

PROJECT NO: 4150-17-71

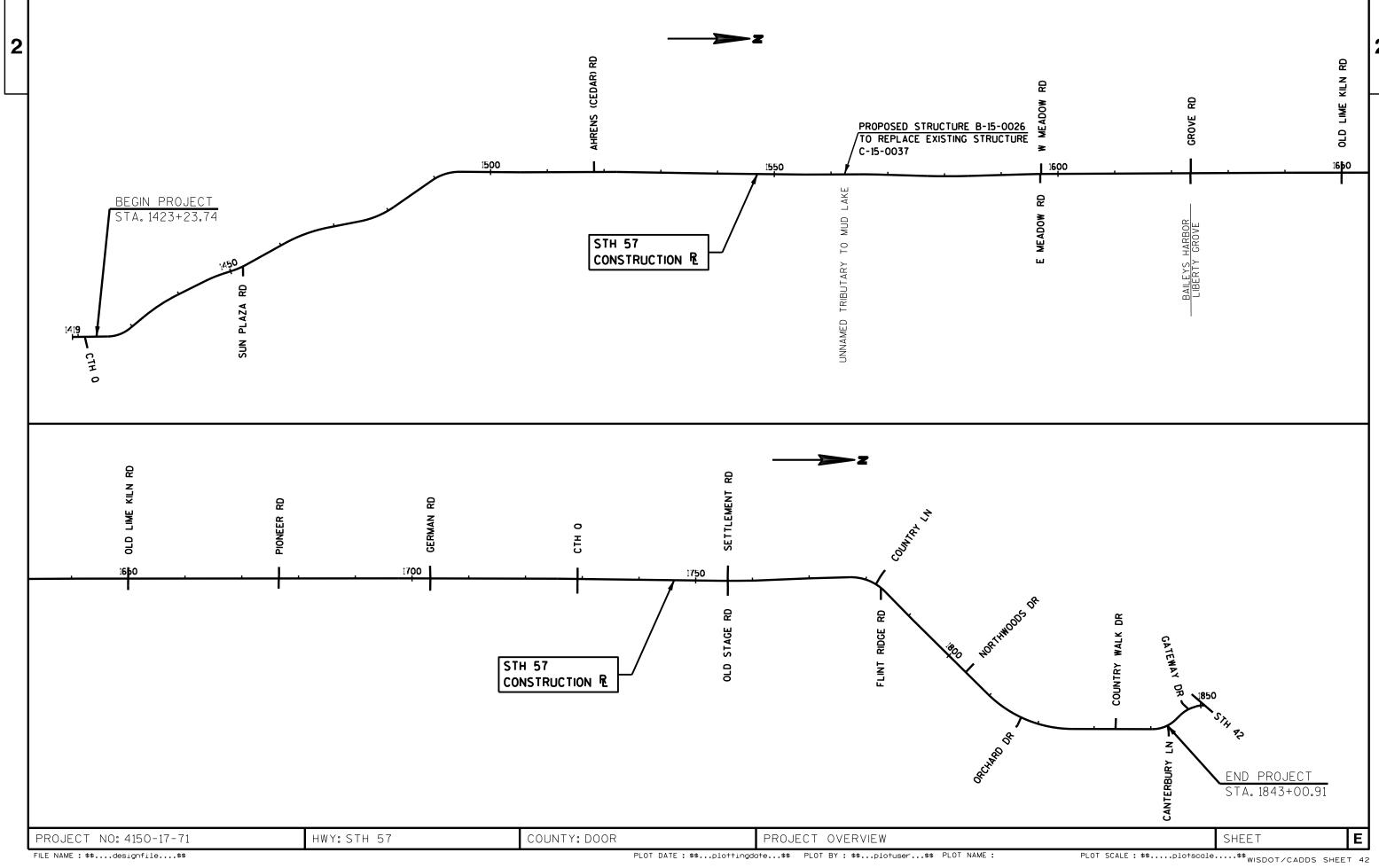
HWY: STH 57

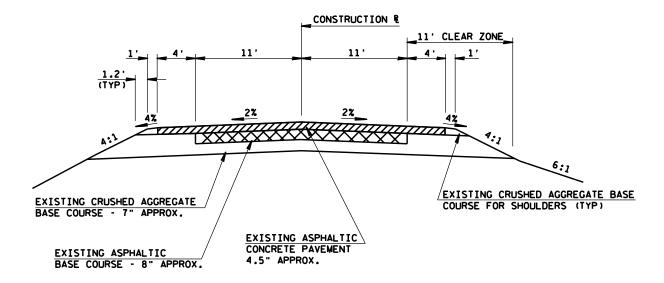
COUNTY: DOOR

GENERAL NOTES

PLOT BY: JT ENGINEERING

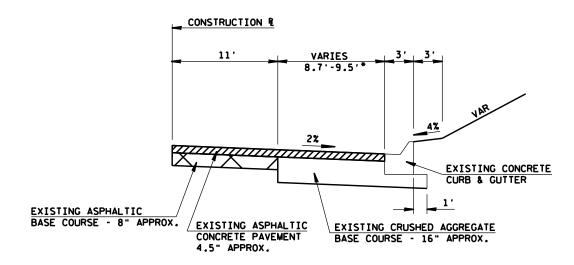
SHEET





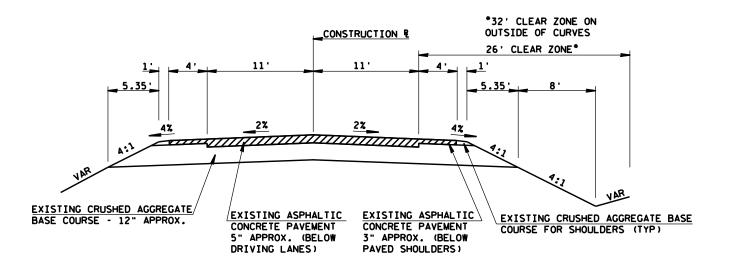
# EXISTING TYPICAL SECTION FOR STH 57

STA 1423+23 - 1617+45 STA 1632+21 - 1803+64 STA 1841+20 - 1849+64



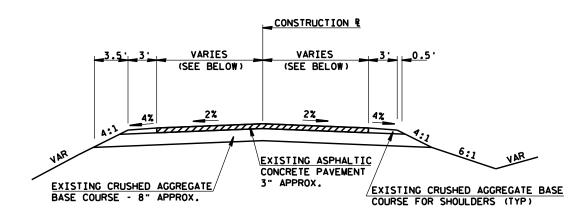
#### EXISTING TYPICAL SECTION FOR STH 57

\*STA 1449+42 - 1453+74 LT (9') \*STA 1608+70 - 1609+80 RT (8.7')
\*STA 1723+93 - 1728+51 RT (9.5')



#### EXISTING TYPICAL SECTION FOR STH 57

STA 1617+45 - 1632+21 STA 1803+64 - 1841+20

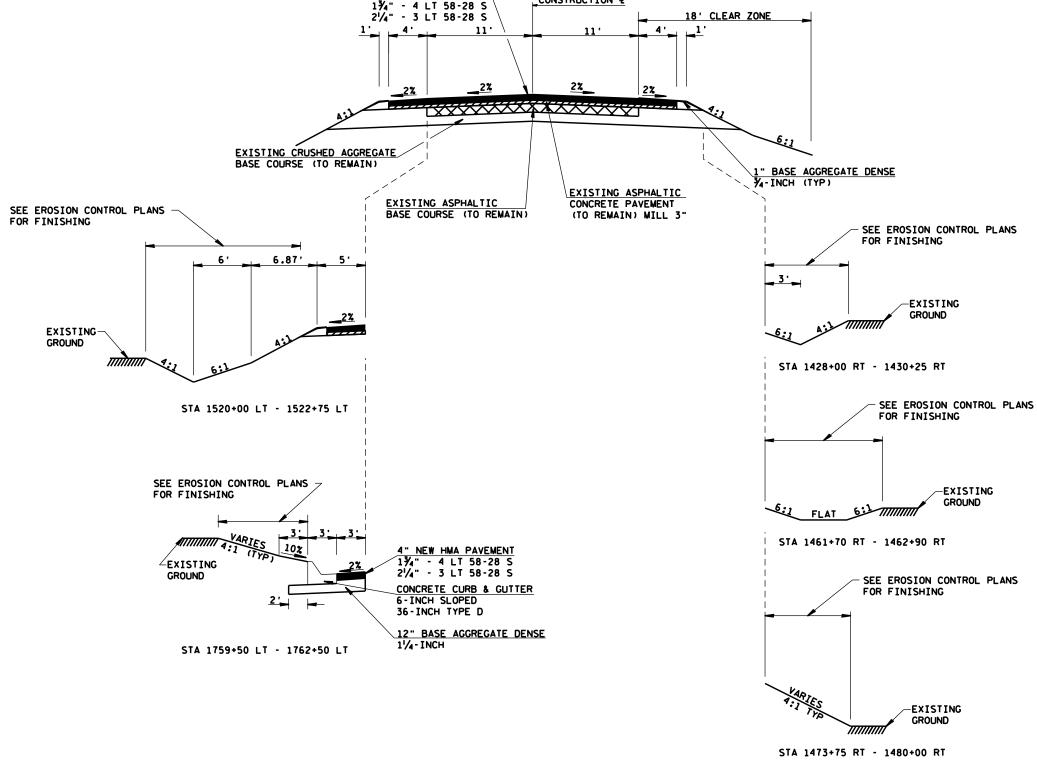


## EXISTING TYPICAL SECTION FOR ASPHALTIC SIDE ROADS

SUN PLAZA ROAD (11') AHRENS (CEDAR) ROAD (10') MEADOW ROAD (10') GROVE ROAD (10') OLD LIME KILN ROAD (10') PIONEER ROAD (11') GERMAN ROAD (10') CTH 0 (11')

SETTLEMENT ROAD (10') OLD STAGE ROAD (11') COUNTRY LANE (11') FLINT RIDGE ROAD (11')
NORTHWOODS DRIVE (11') ORCHARD DRIVE (11') COUNTRY WALK DRIVE (14') CANTERBURY LANE (11') GATEWAY DRIVE (10')





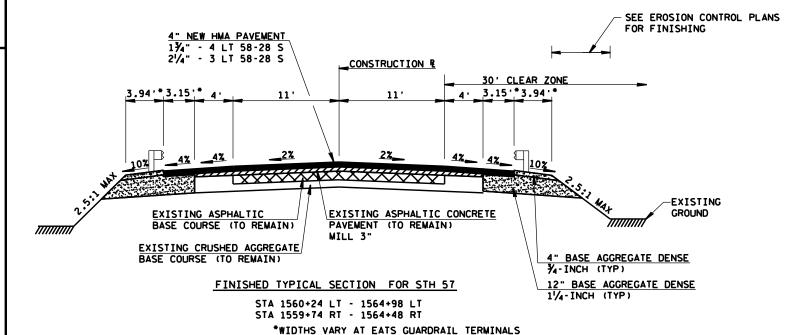
# FINISHED TYPICAL SECTION FOR STH 57

STA. 1423+23 - 1559+74 RT STA. 1423+23 - 1560+24 LT STA. 1564+48 - 1617+45 RT STA. 1564+98 - 1617+42 LT STA 1632+21 - 1803+64 STA 1841+20 - 1843+00.91

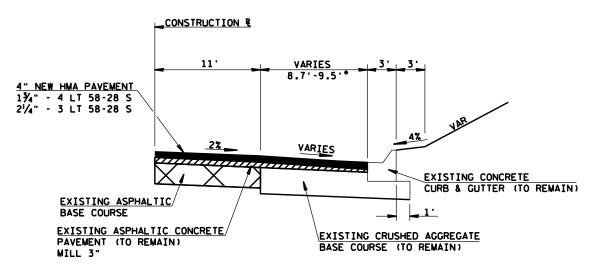
HWY:STH 57 COUNTY:DOOR

TYPICAL CROSS SECTIONS

SHEET



GUARDRAIL MOW STRIP EMULSIFIED ASPHALT REOD BETWEEN EDGE OF PAVED SHOULDER TO HINGE POINT FROM EAT TERMINAL HEAD TO STRUCTURE B-15-26



\*STA 1449+42 - 1453+74 LT (9')

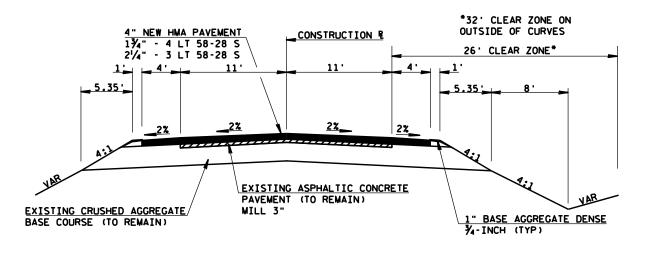
HWY: STH 57

\*STA 1449+42 - 1453+74 LT (9')

\*STA 1608+70 - 1609+80 RT (8.7')

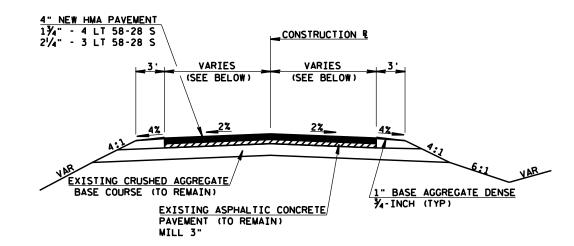
\*STA 1723+93 - 1728+51 RT (9.5')

NOTE: VARY MILLING DEPTH FROM 3" AT THE EDGE OF LANE TO 4" AT THE EDGE OF CURB & GUTTER.



# FINISHED TYPICAL SECTION FOR STH 57

STA 1617+45 - 1632+21 STA 1803+64 - 1841+20



# FINISHED TYPICAL SECTION FOR ASPHALTIC SIDE ROADS

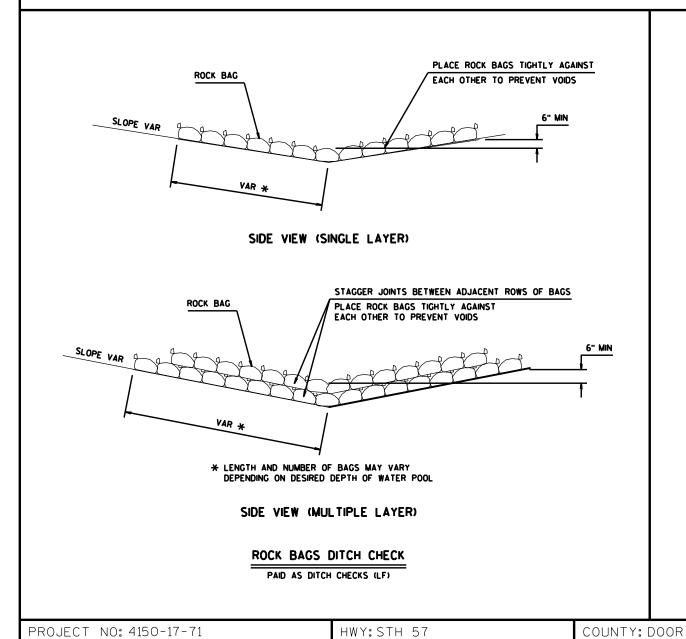
SUN PLAZA ROAD (11')
AHRENS (CEDAR) ROAD (10')
MEADOW ROAD (10')
GROVE ROAD (10')
OLD LIME KILN ROAD (10')
PIONEER ROAD (11')
GERMAN ROAD (10')
CTH 0

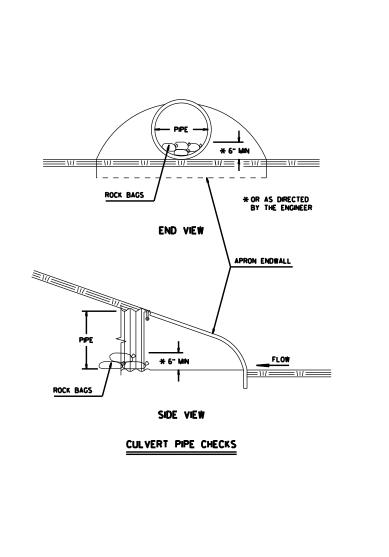
SETTLEMENT ROAD (10')
OLD STAGE ROAD (11')
COUNTRY LANE (11')
FLINT RIDGE ROAD (11')
NORTHWOODS DRIVE (11')
ORCHARD DRIVE (11')
COUNTRY WALK DRIVE (14')
CANTERBURY LANE (11')
GATEWAY DRIVE (10')

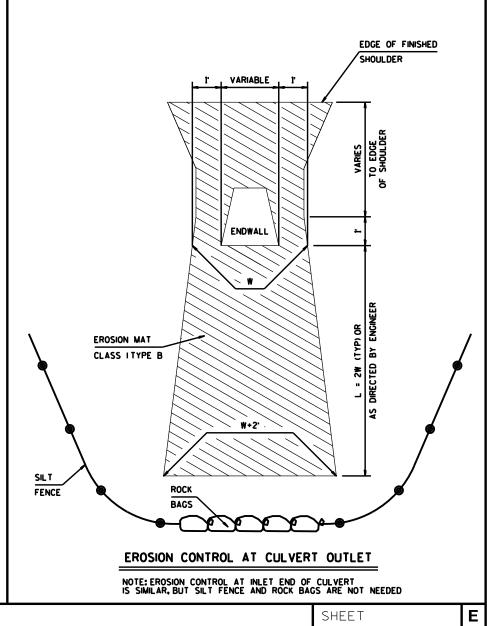
COUNTY: DOOR

TYPICAL CROSS SECTIONS

SHEET







EXISTING ASPHALTIC DRIVEWAY EXISTING AGGREGATE DRIVEWAY BUTT JOINT REOD. MATCH EXISTING DRIVEWAY 5' TYP EDGE OF GRAVEL SHOULDER 5' TYP EDGE OF PAVED SHOULDER EDGE OF LANE

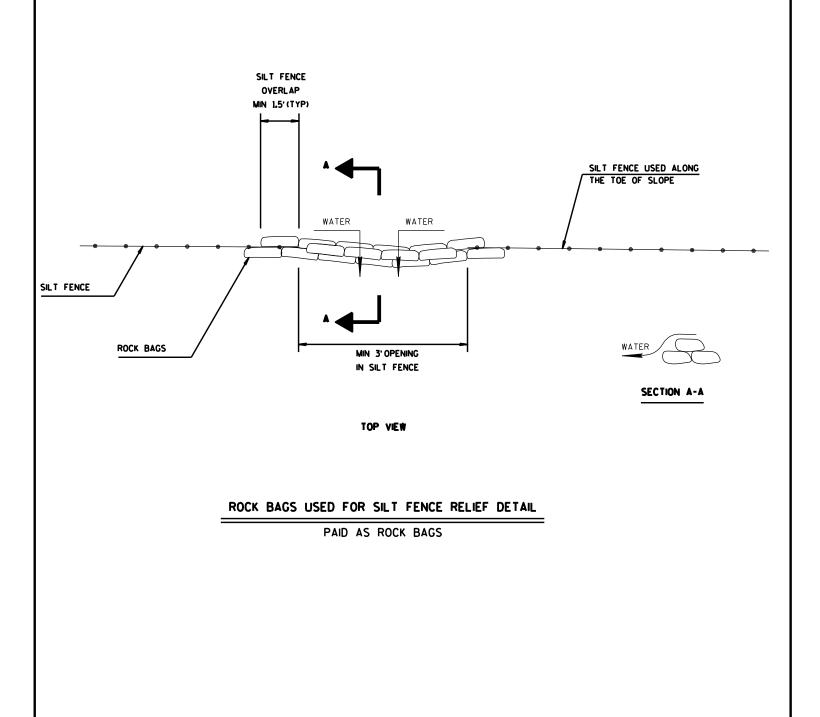
# RURAL DRIVEWAY

HWY:STH 57

NOTE: LIMITS OF DRIVEWAY MAY BE ADJUSTED BY THE ENGINEER IN THE FIELD.

PAVED DRIVEWAYS SHALL BE PAID AS HMA PAVEMENT

AGGREGATE DRIVEWAYS SHALL BE PAID AS BASE AGGREGATE DENSE 1/4-INCH



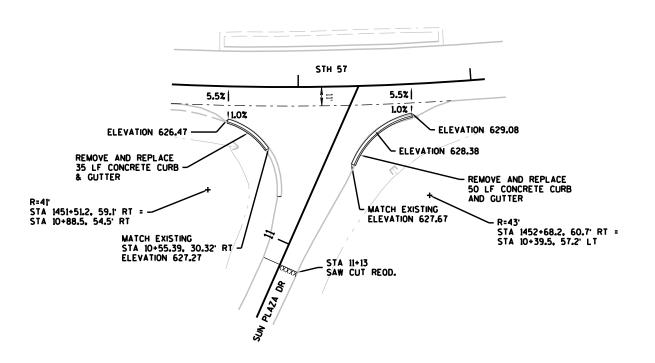
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COUNTY: DOOR

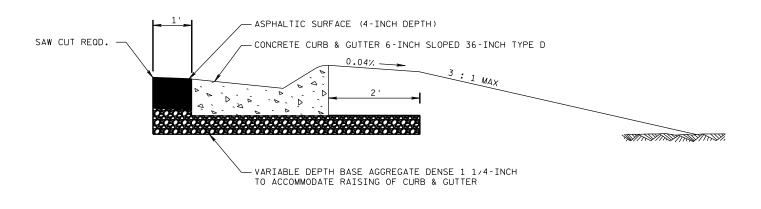
CONSTRUCTION DETAILS

E

2

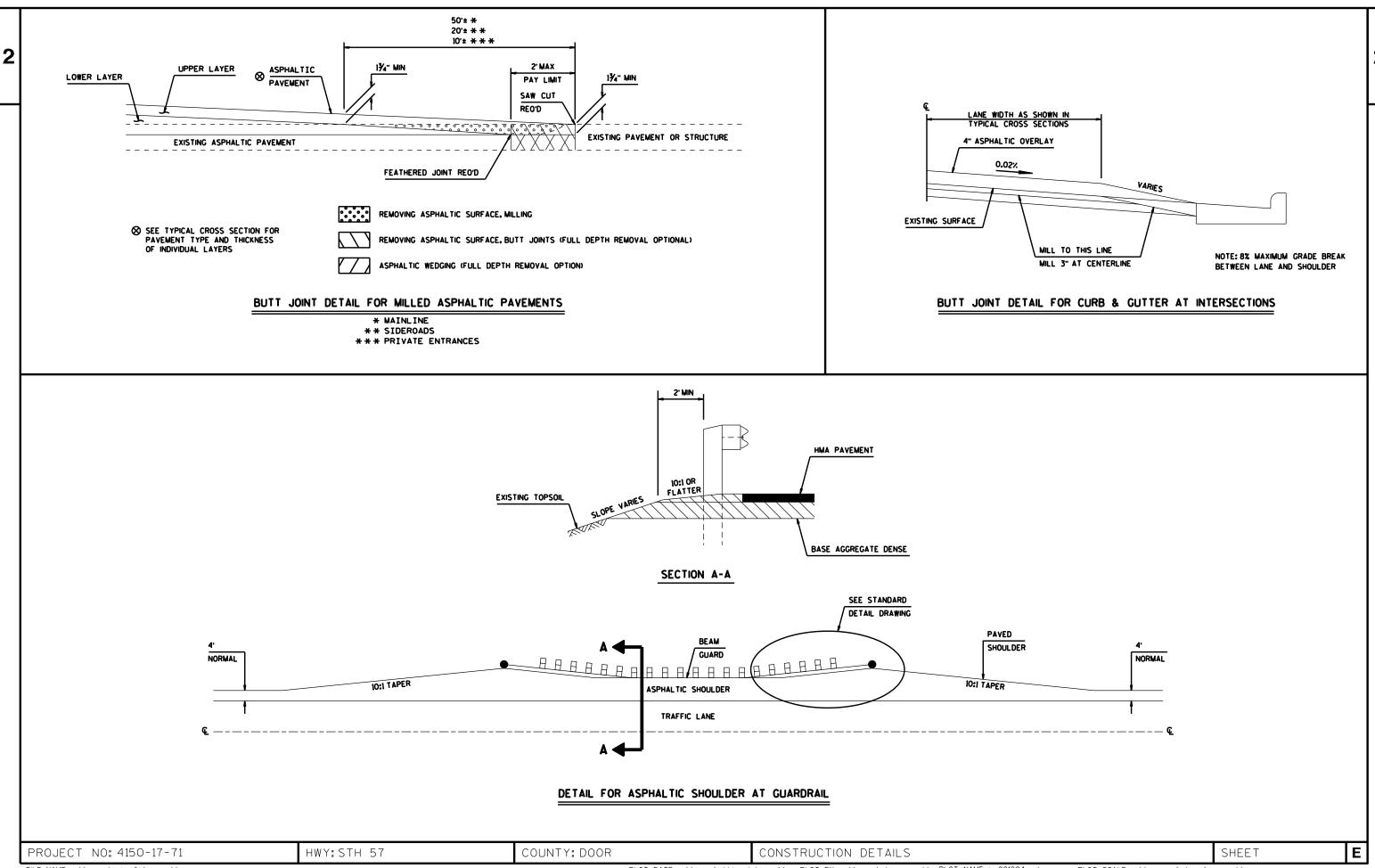


### CONCRETE CURB & GUTTER REPLACEMENT AT STH 57/SUN PLAZA DRIVE



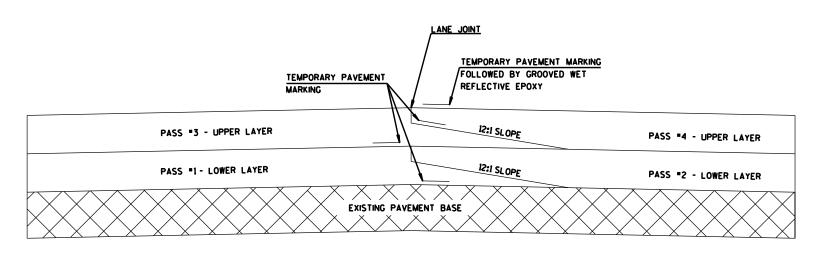
CONCRETE CURB & GUTTER REPLACEMENT TYPICAL SECTION

PROJECT NO: 4150-17-71 HWY: STH 57 COUNTY: DOOR CONSTRUCTION DETAILS



2

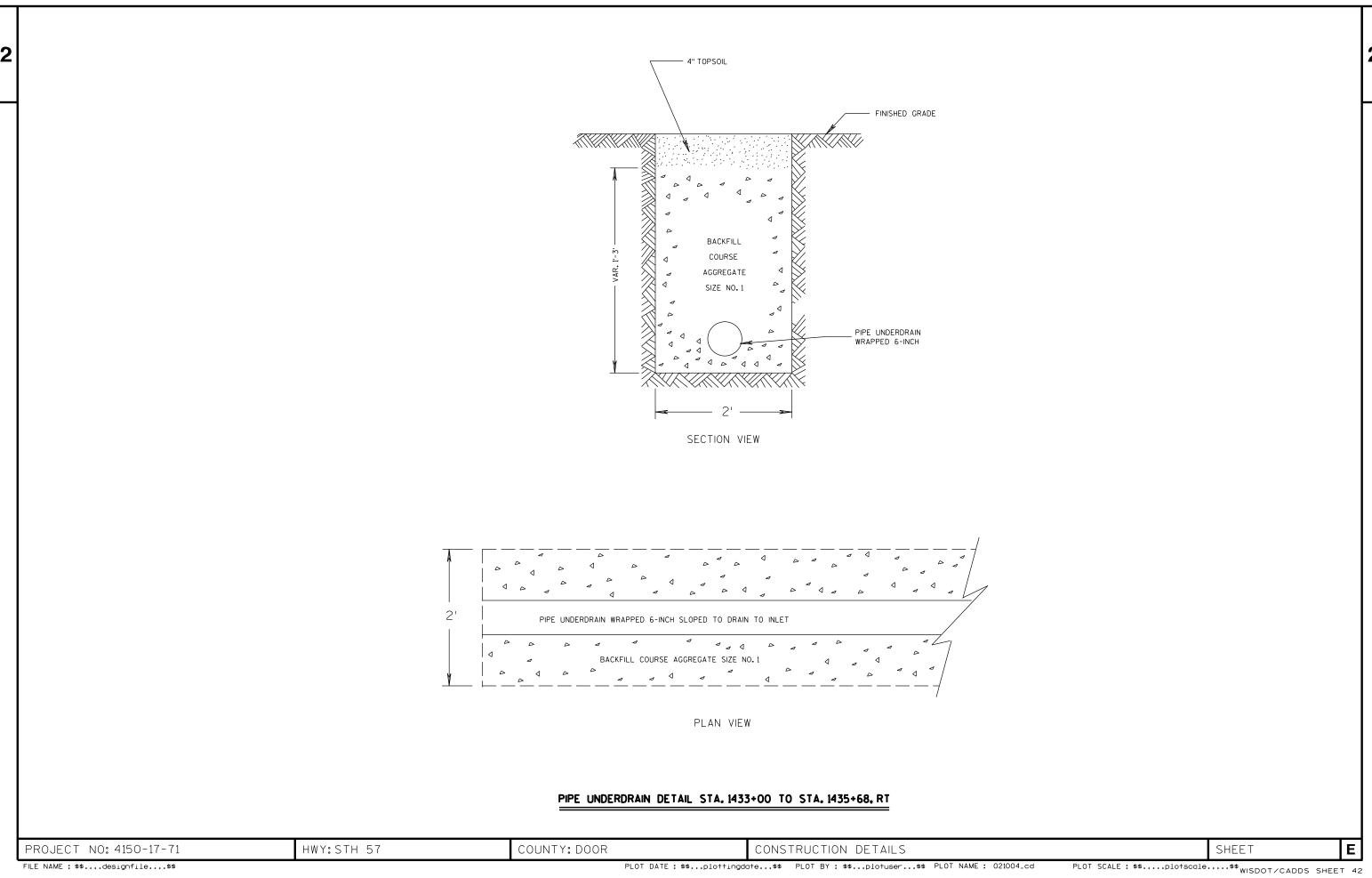
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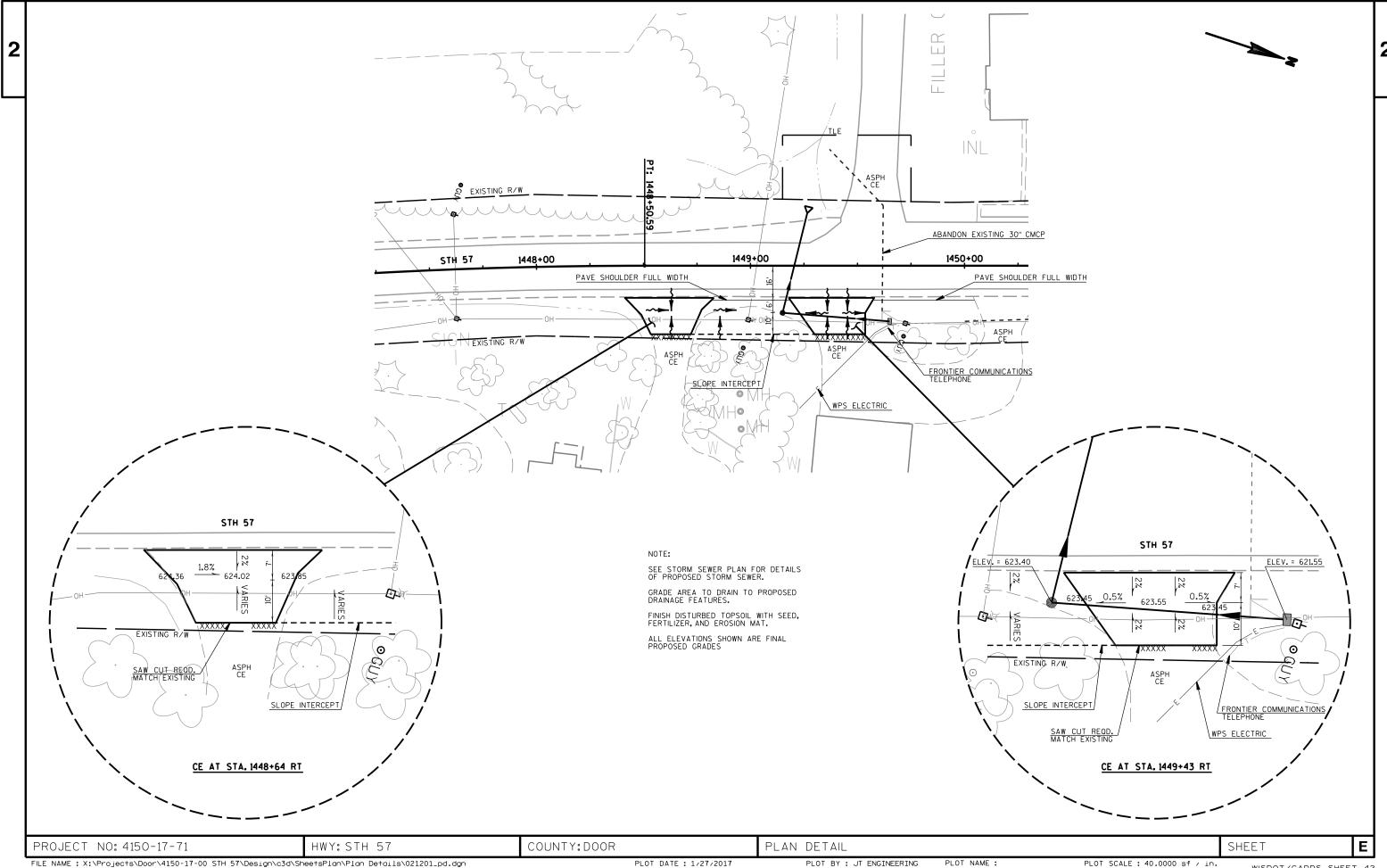


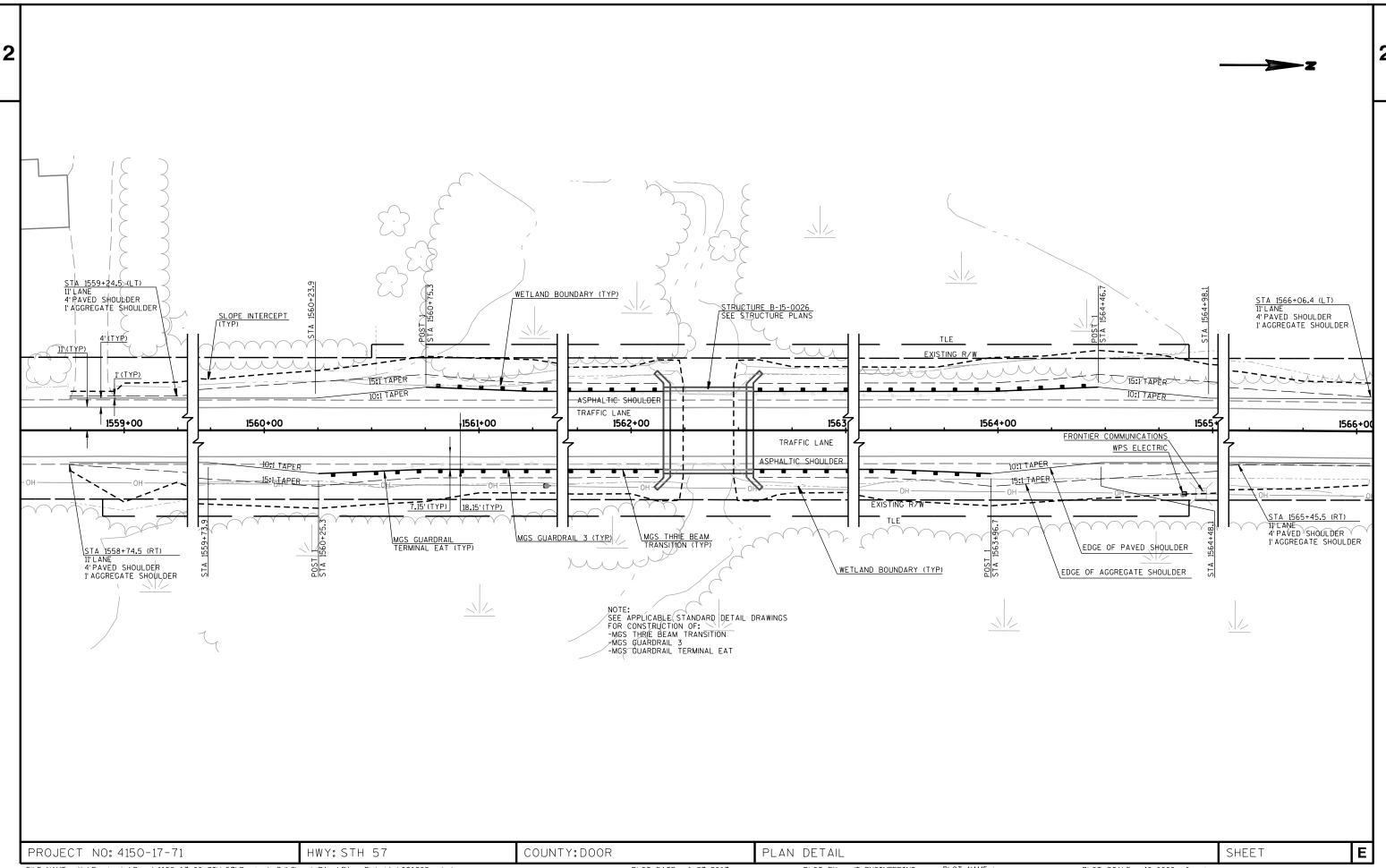
# LOWER AND UPPER LAYERS

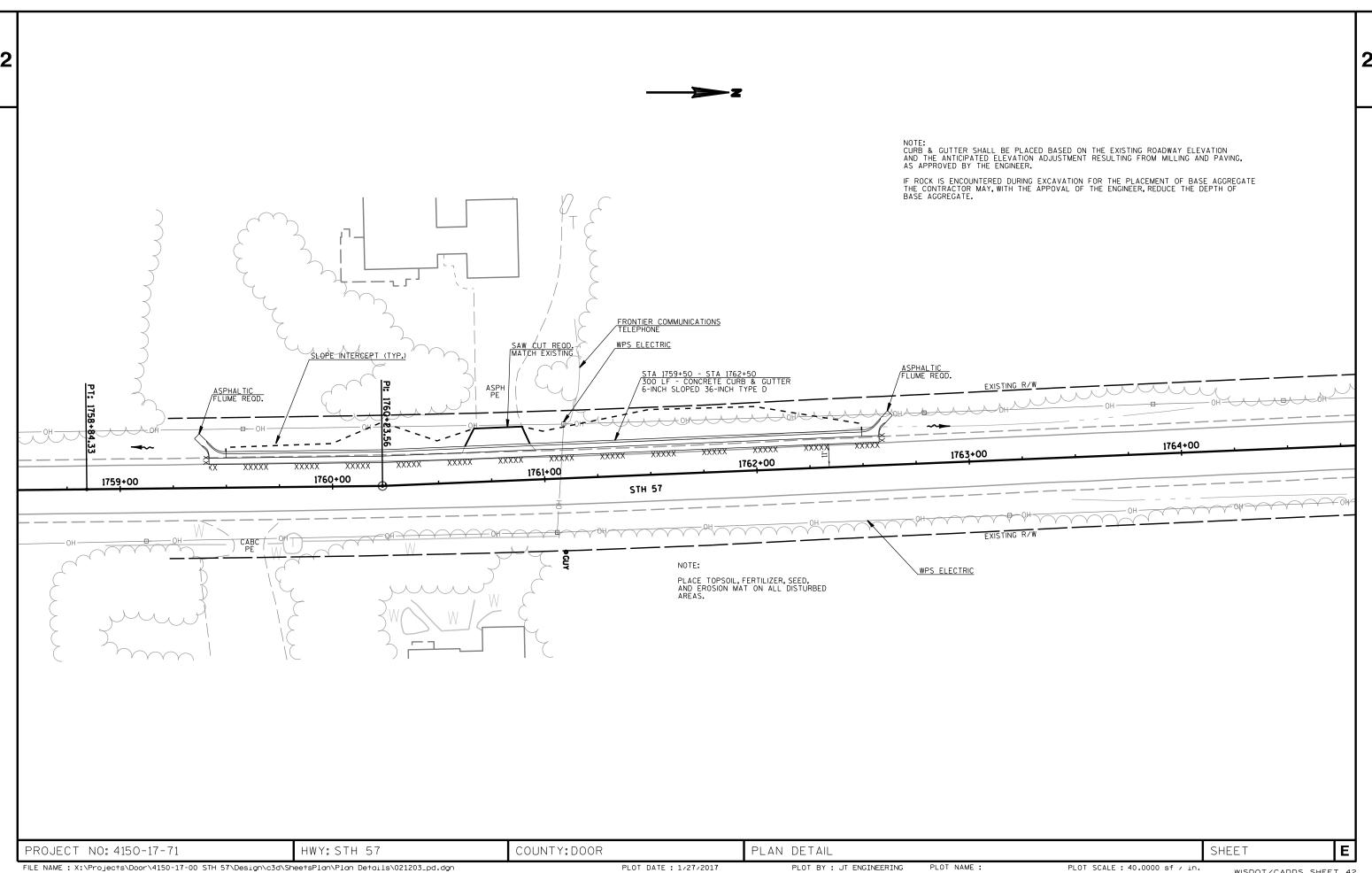
PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN ASPHALTIC PAVEMENTS

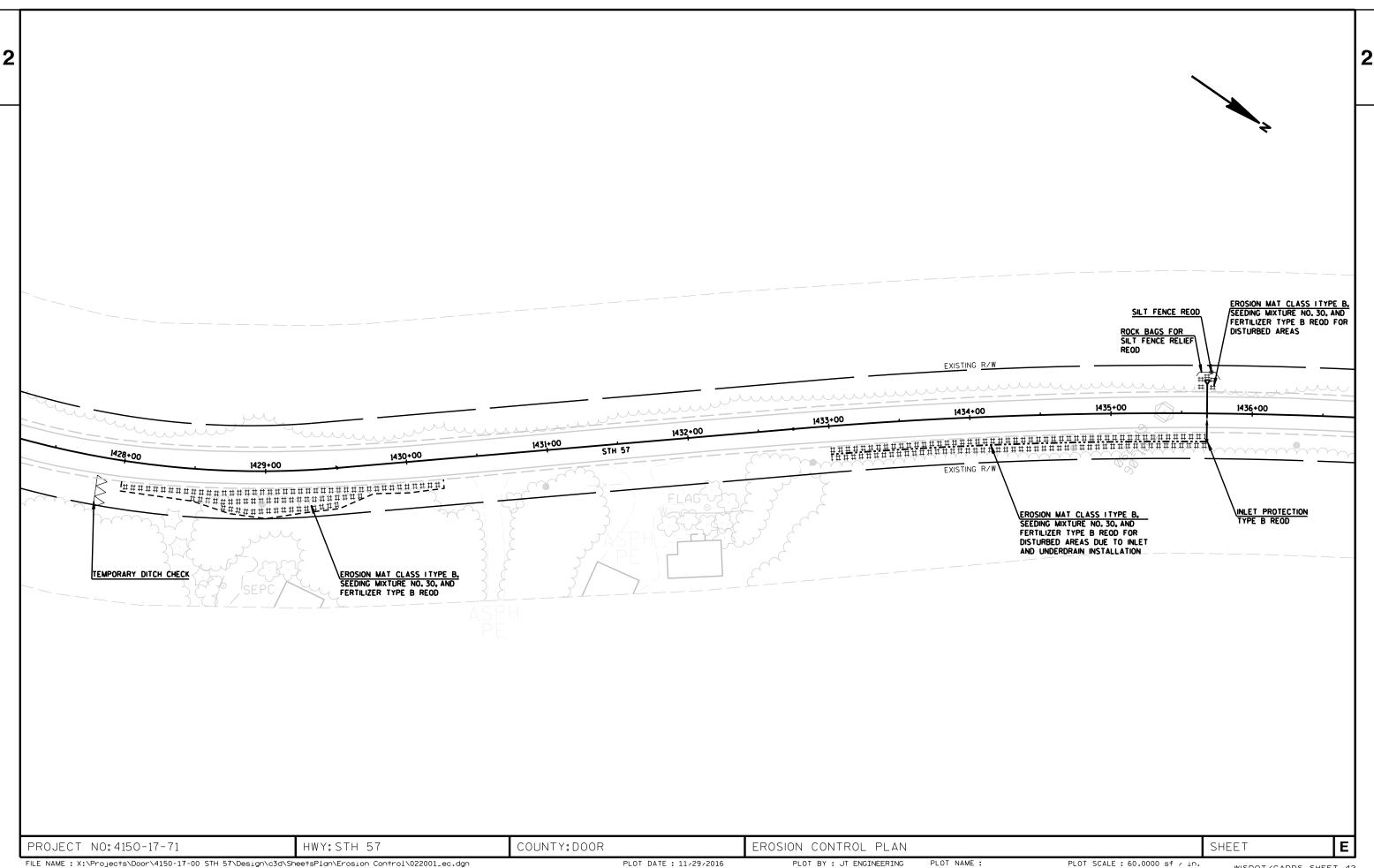
PROJECT NO: 4150-17-71 HWY:STH 57 COUNTY: DOOR CONSTRUCTION DETAILS

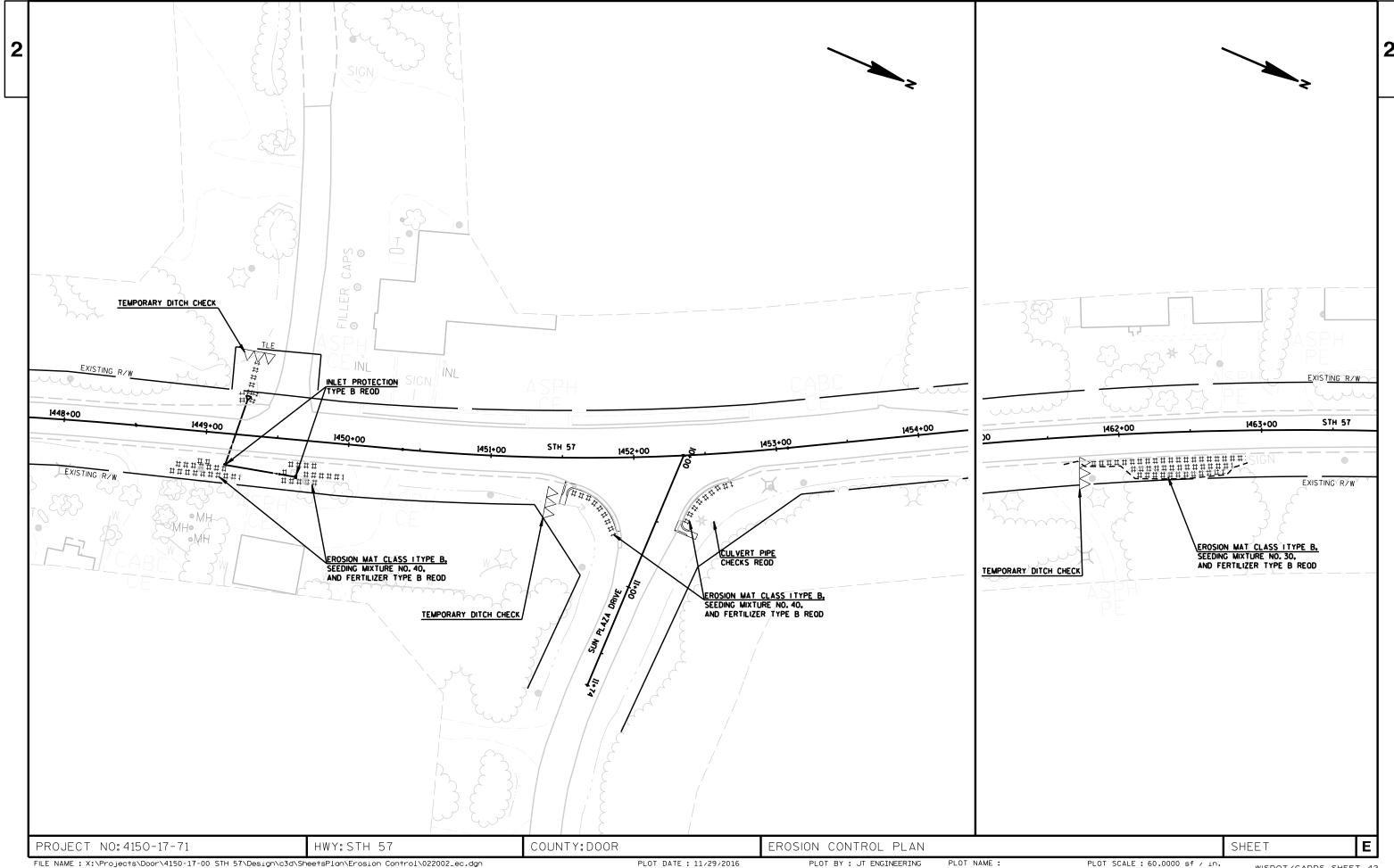


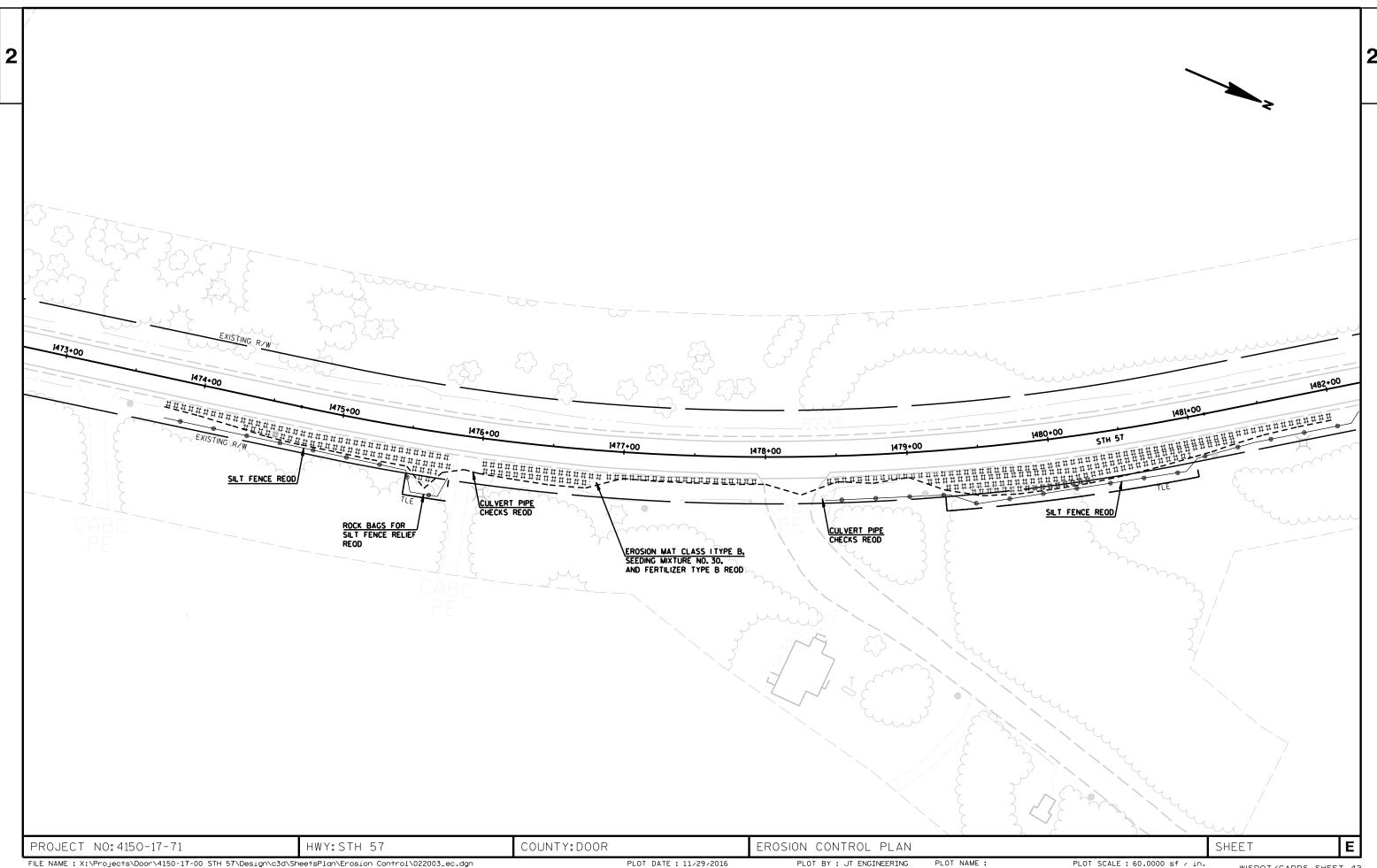


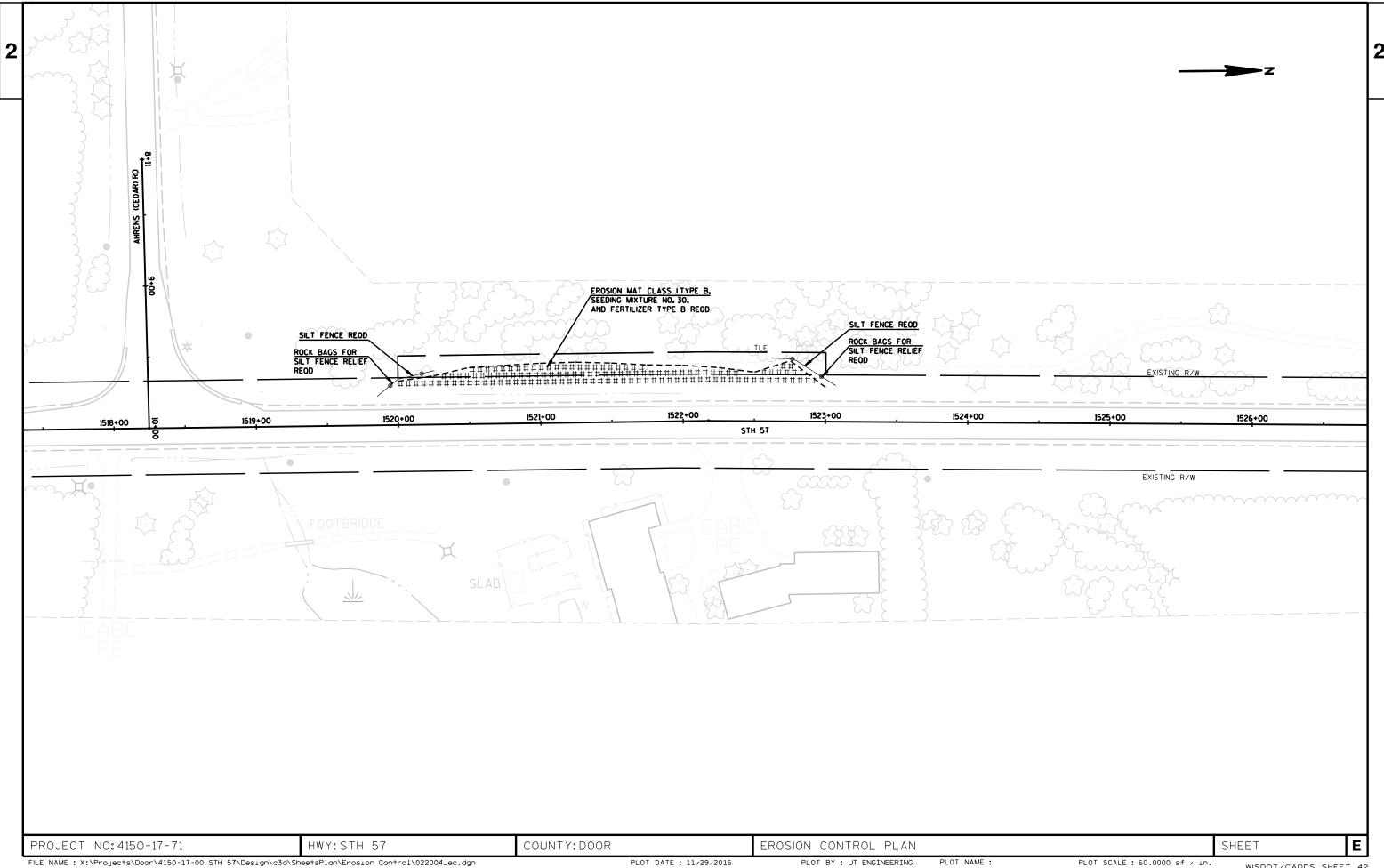


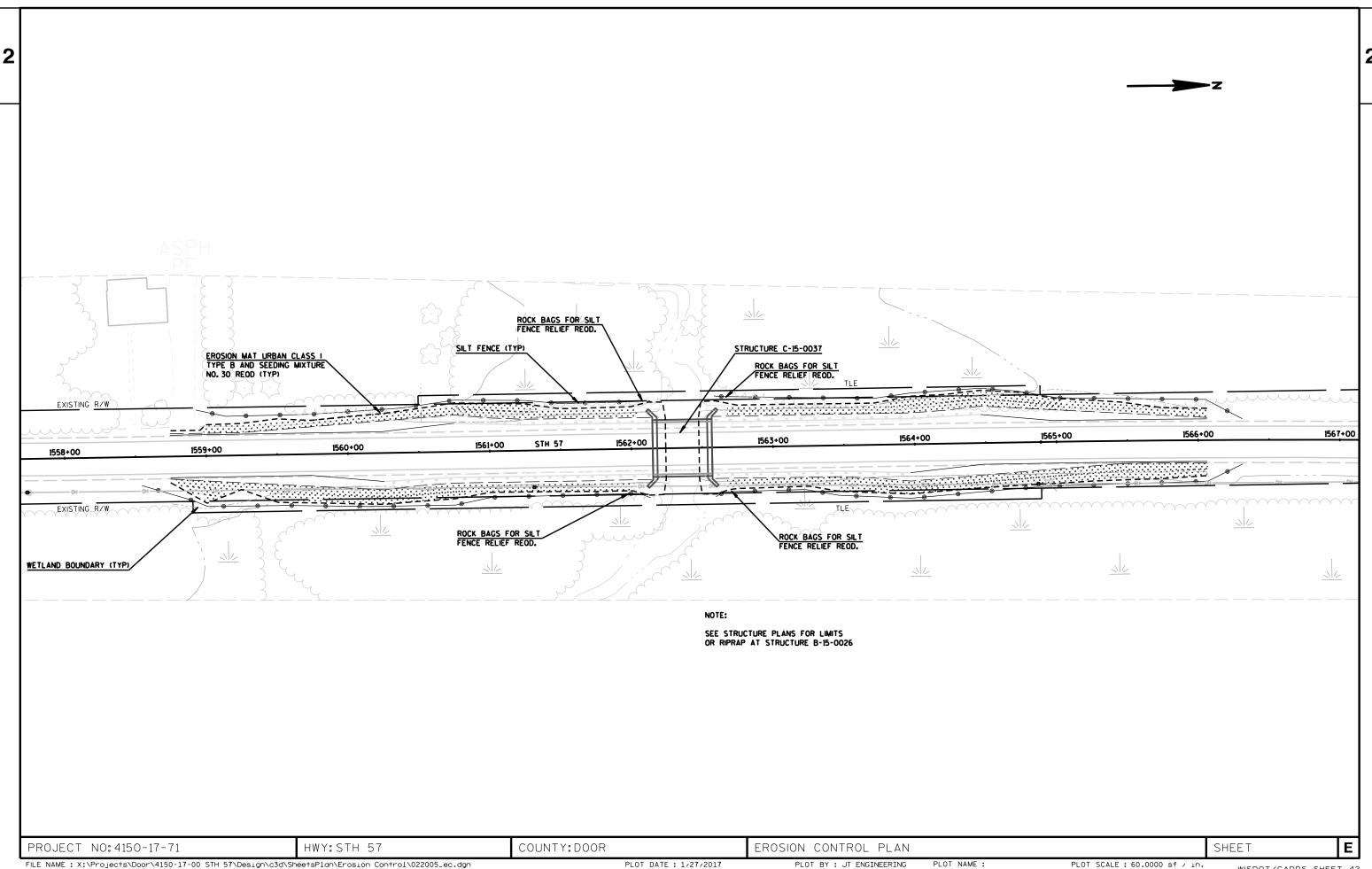


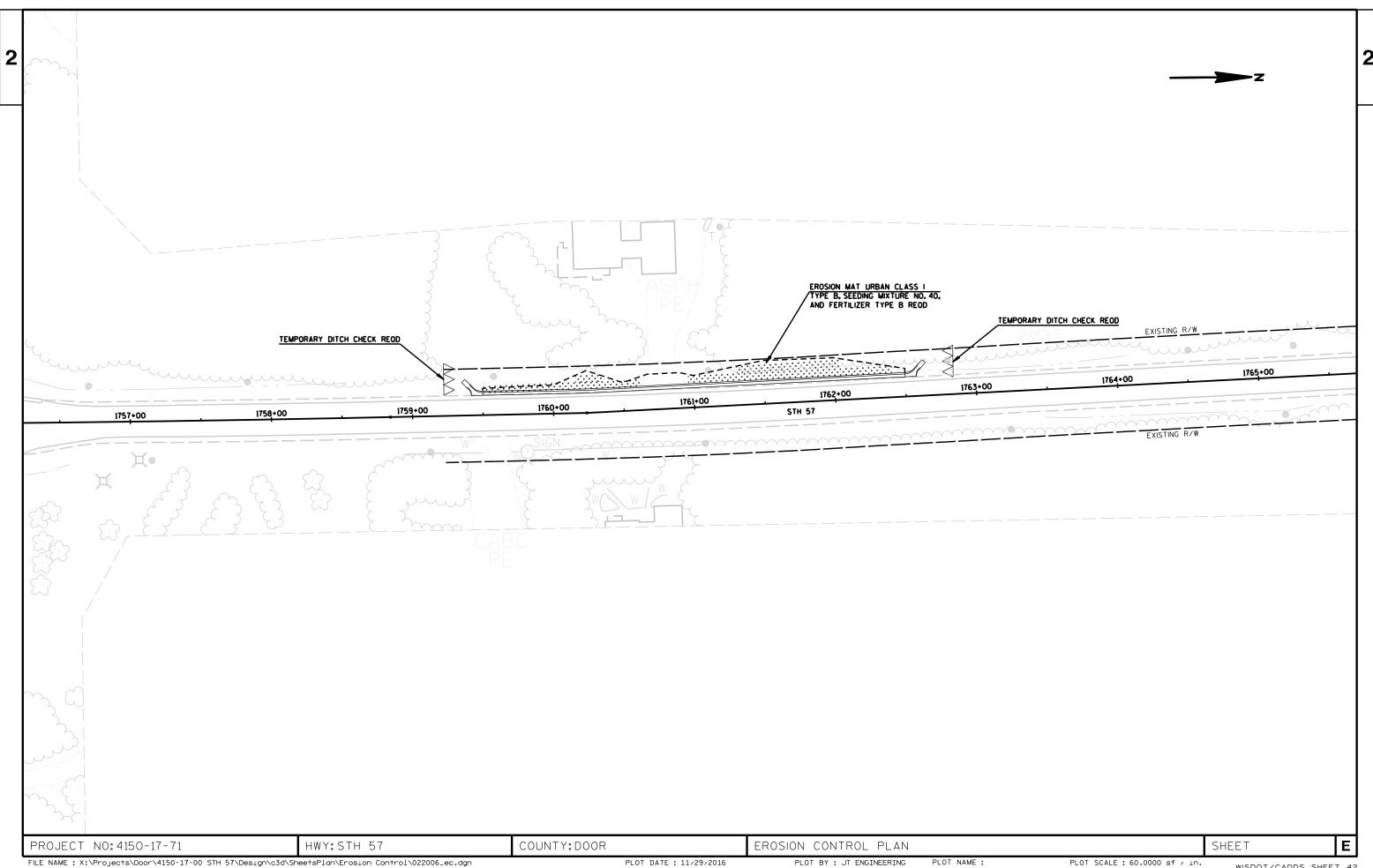


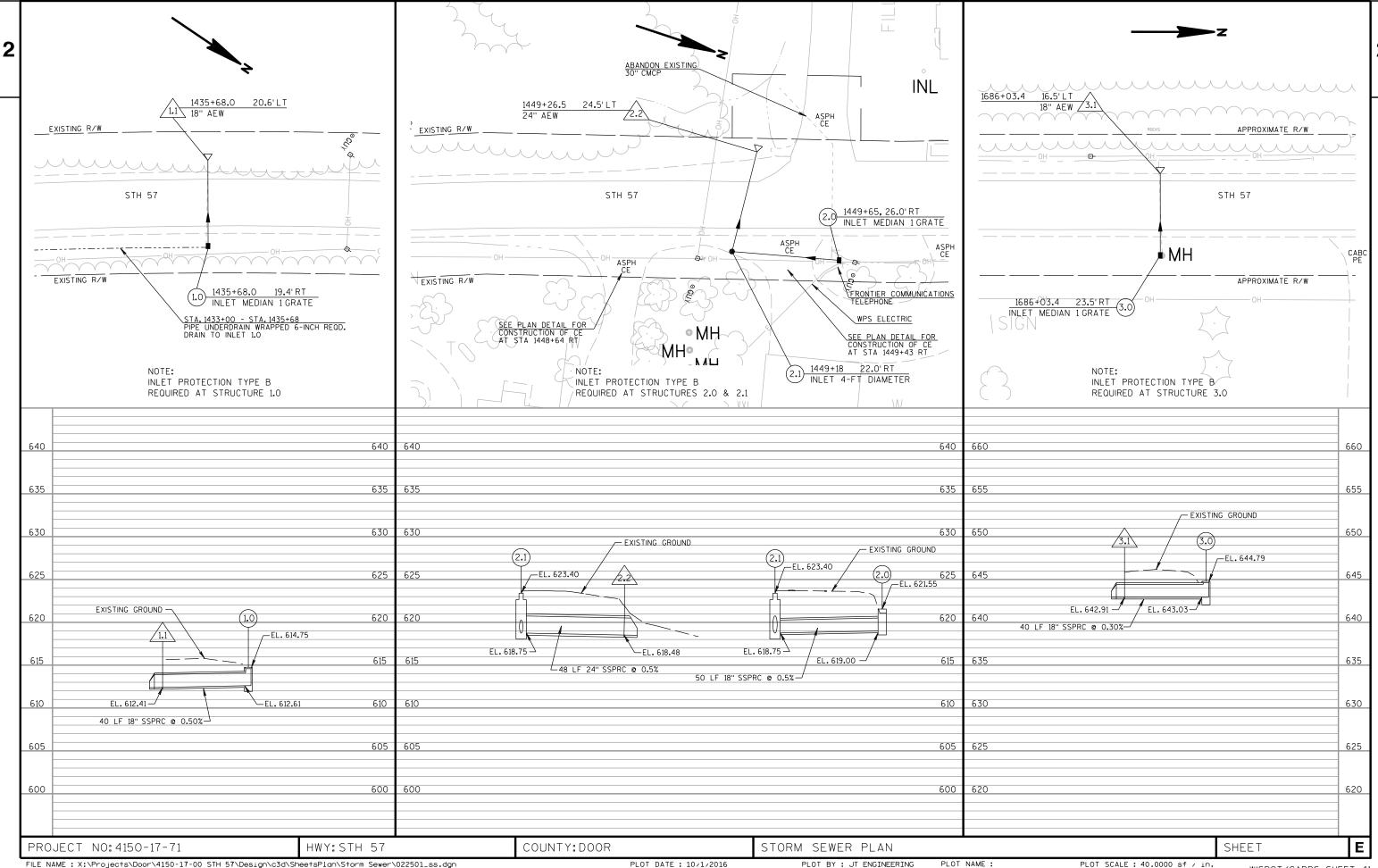




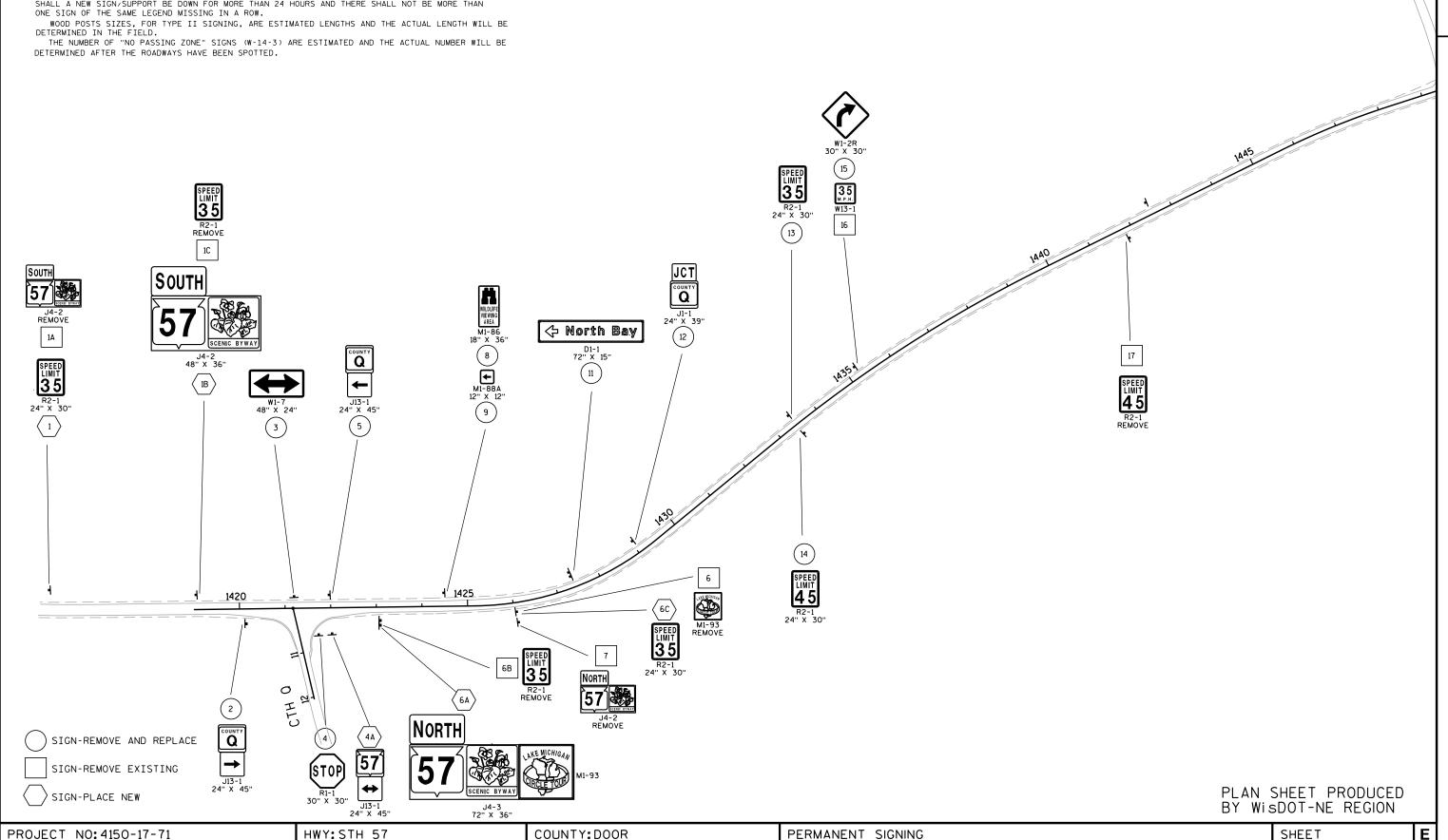




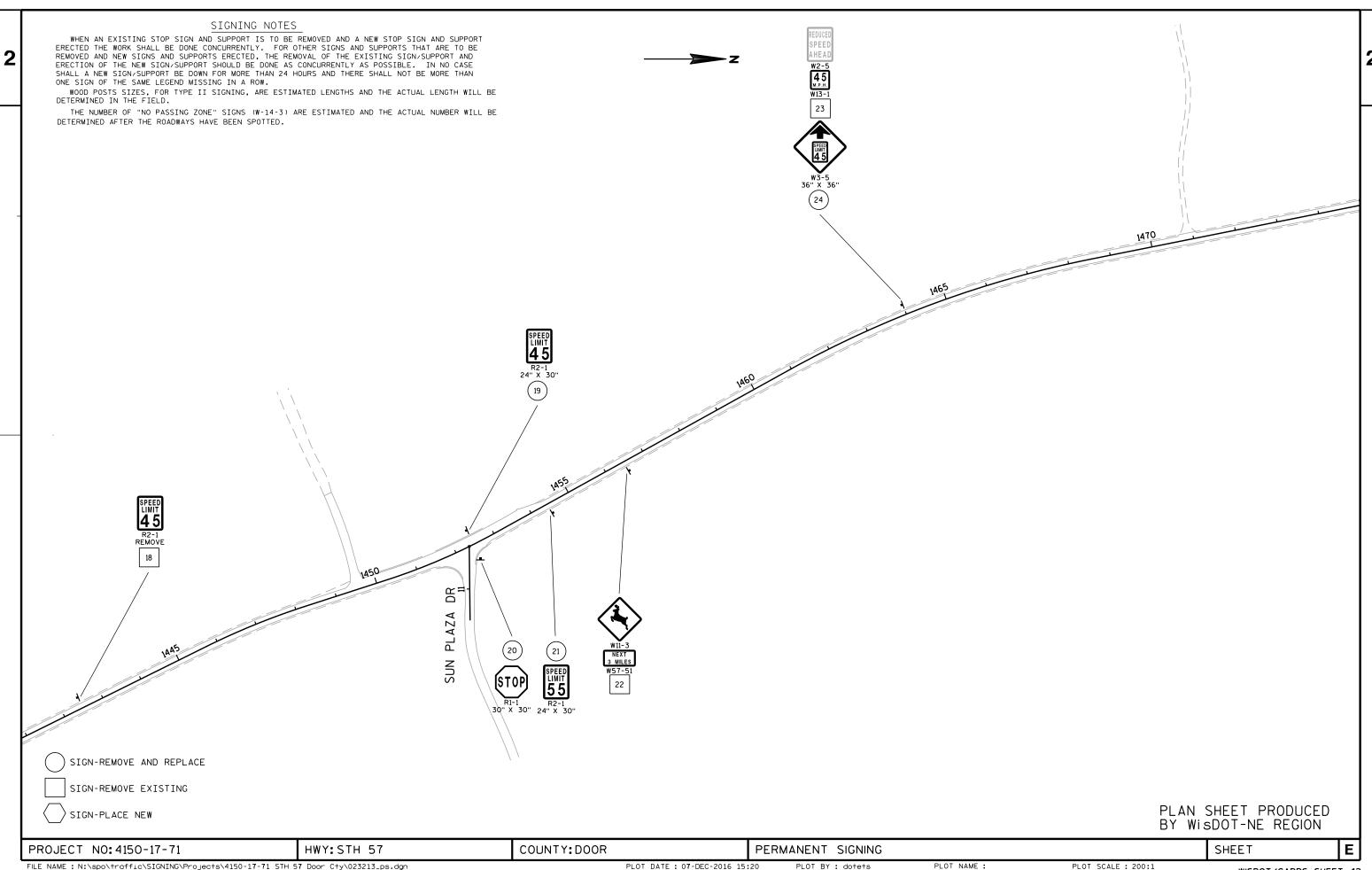




WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD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



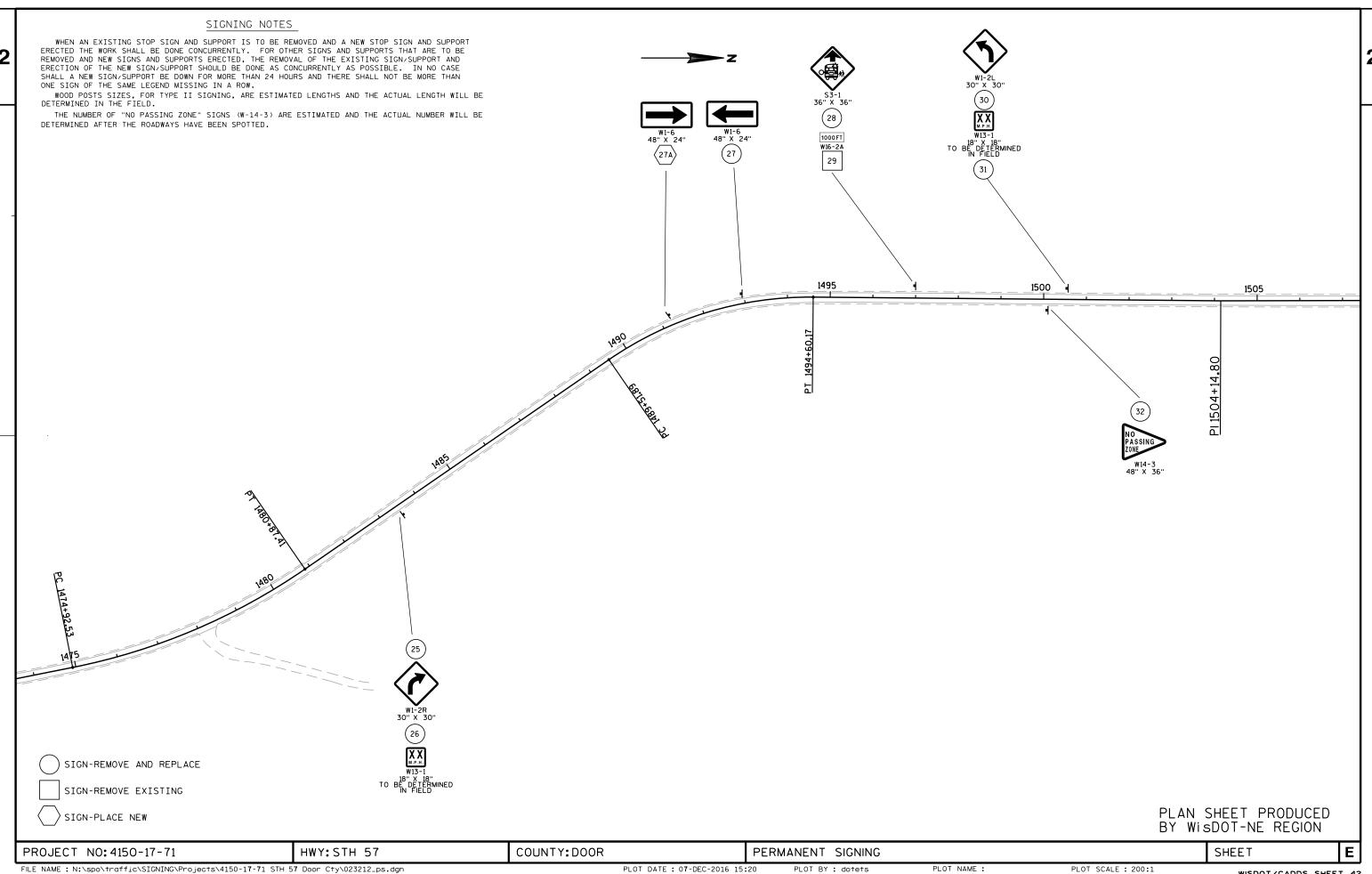
PLOT BY : dotets



FILE NAME: N:\spo\traffic\SIGNING\Projects\4150-17-71 STH 57 Door Cty\023213\_ps.dgn

PLOT DATE: 07-DEC-2016 15:20

PLOT SCALE : 200:1



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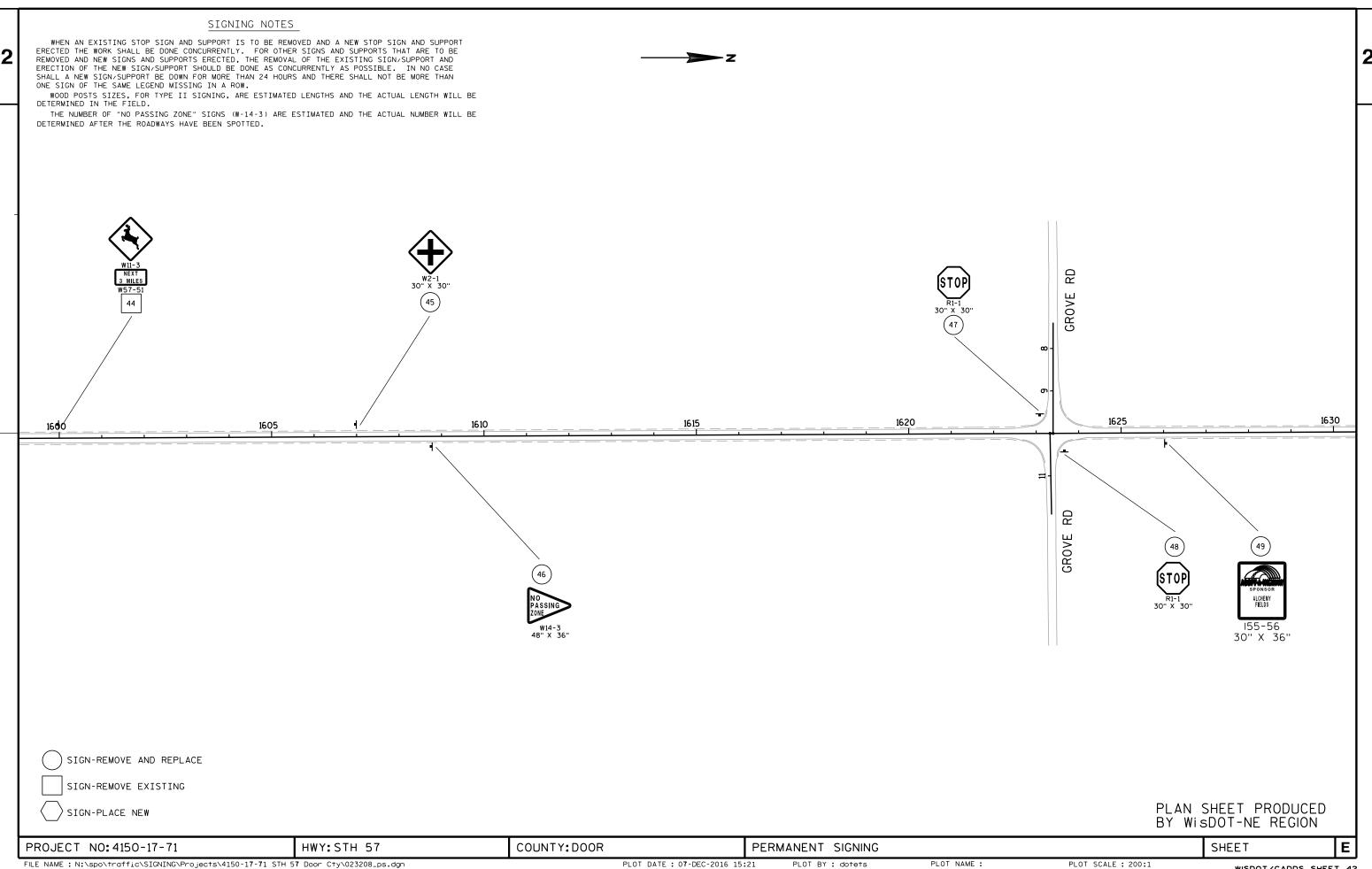
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PLOT NAME :

PLOT SCALE: 200:1

PLOT DATE: 07-DEC-2016 15:21

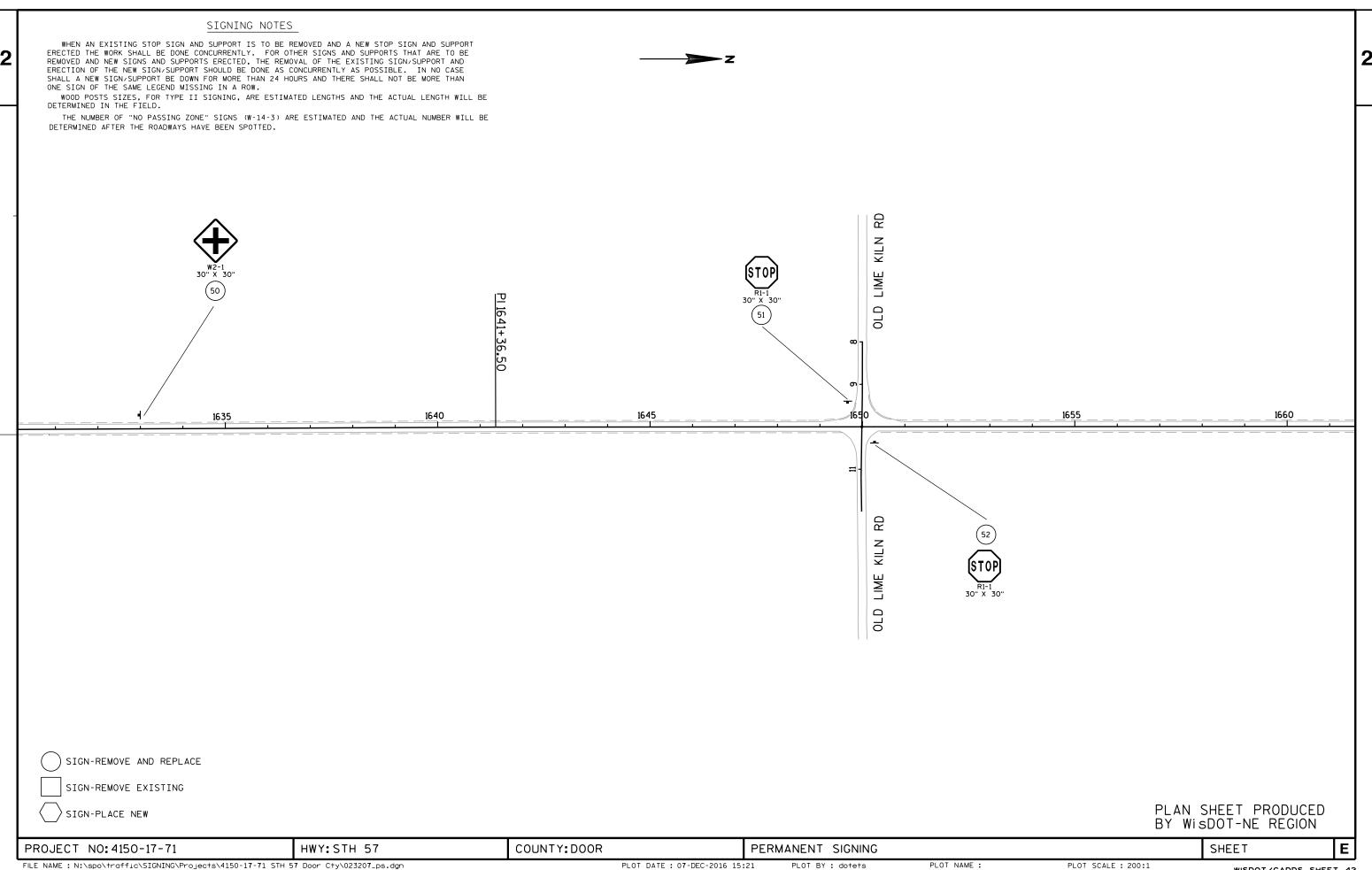
						1
	NING NOTES					
ERECTED THE WORK SHALL BE DONE CONCURRE REMOVED AND NEW SIGNS AND SUPPORTS EREC	RT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPO NTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO E TED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND	BE D				
SHALL A NEW SIGN/SUPPORT BE DOWN FOR MO ONE SIGN OF THE SAME LEGEND MISSING IN		N				
DETERMINED IN THE FIELD.	G, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WI					-
DETERMINED AFTER THE ROADWAYS HAVE BEEN	S (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WI SPOTTED.		Z			
					SOUTH STORY	TOP)
					ZONE IA-2	21-1
					4011 24 3611	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
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	1575	1500	1585	1590	)	1595
		1580 			<del></del>	
						=-
						WE ADOW (\$10b)
						ME POTON
						RI-1 30" X 30" 43
						30" × 30" (43)
						57
						J4-2 REMOVE
SIGN-REMOVE AND REPLACE						
SIGN-REMOVE EXISTING						PLAN SHEET PRODUCED
SIGN-PLACE NEW						I LAIN SHEET TINODUCED
						PLAN SHEET PRODUCED BY WisDOT-NE REGION

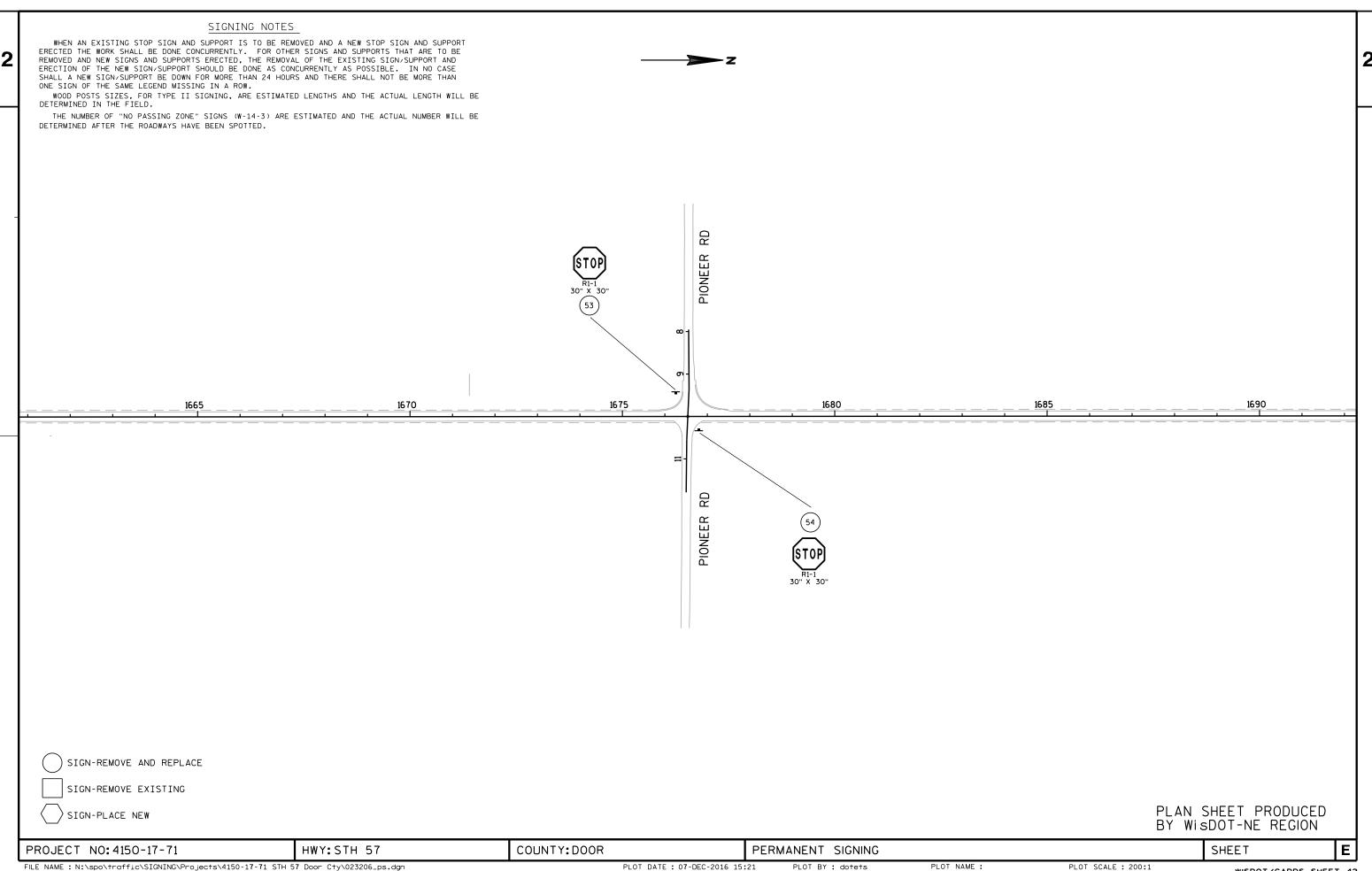


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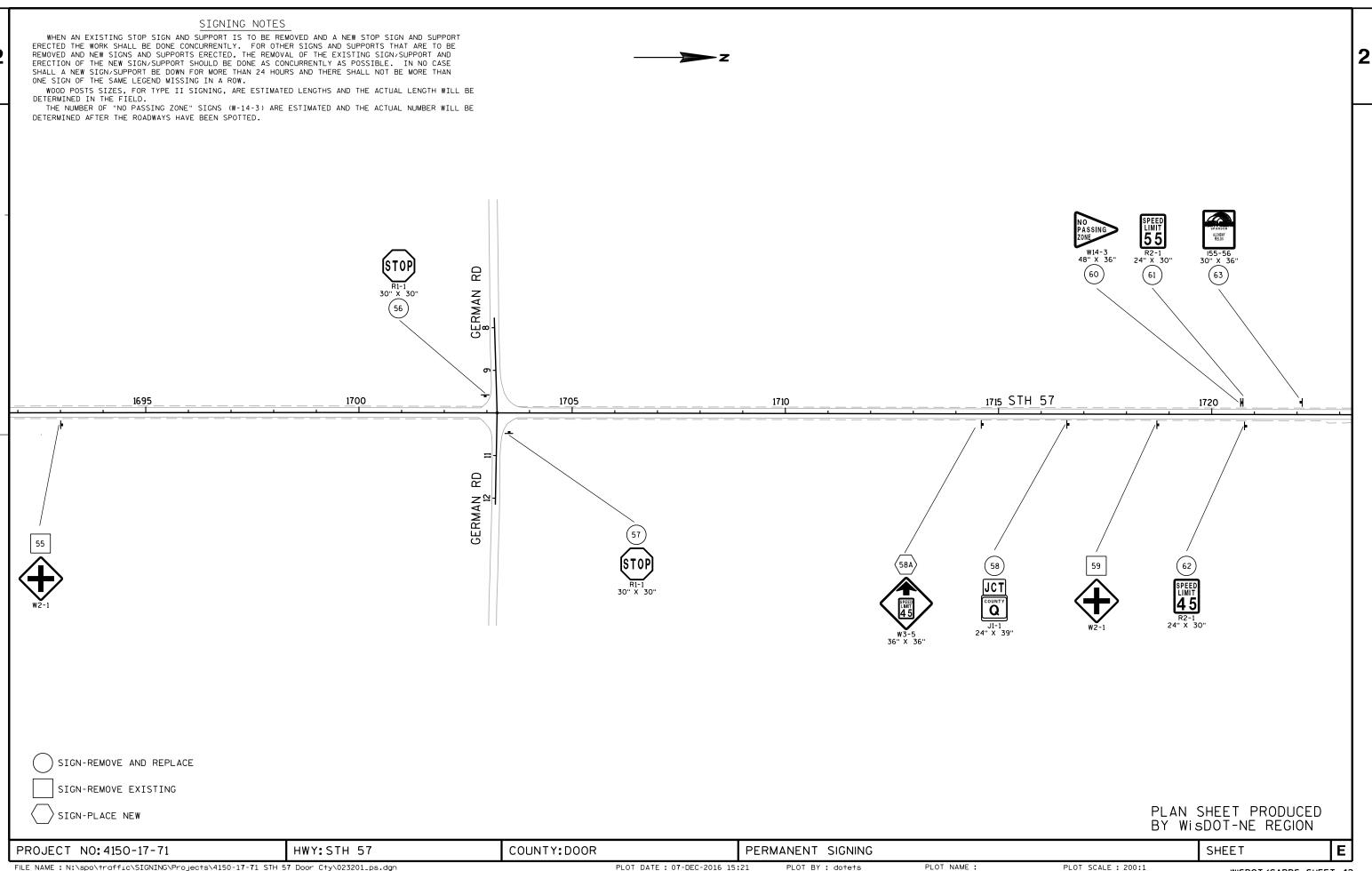
PLOT SCALE : 200:1





PLOT DATE: 07-DEC-2016 15:21

PLOT NAME :



FILE NAME: N:\spo\traffic\SIGNING\Projects\4150-17-71 STH 57 Door Cty\023201\_ps.dgn

PLOT DATE: 07-DEC-2016 15:21

PLOT BY : dotets

SIGNING NOTES WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED. THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW. WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD. THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE SOUTH DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED. 65 JCT Q Q 24" X 39" (STOP **\*** Ephraim 🖒 Rl-1 30" X 30" J13-1 REMOVE D1-1 66" X 15" J13-1 24" X 45" 76 (72) (77) 79 0 СТН 1730 STH 57 1740 1745 1750 O СТН 74 SPEED LIMIT 45 R2-1 24" X 30" 66 COUNTY Q (71)⟨→ Ephraim (STOP) STOP D1-1 66" X 15" R1-1 30" X 30" R1-1 30" X 30" W14-3 48" X 36' J13-1 24" X 45" North ) SIGN-REMOVE AND REPLACE J4-3 72" X 36" SIGN-REMOVE EXISTING PLAN SHEET PRODUCED BY WisDOT-NE REGION SIGN-PLACE NEW PROJECT NO: 4150-17-71 HWY:STH 57 COUNTY: DOOR SHEET Ε PERMANENT SIGNING

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2

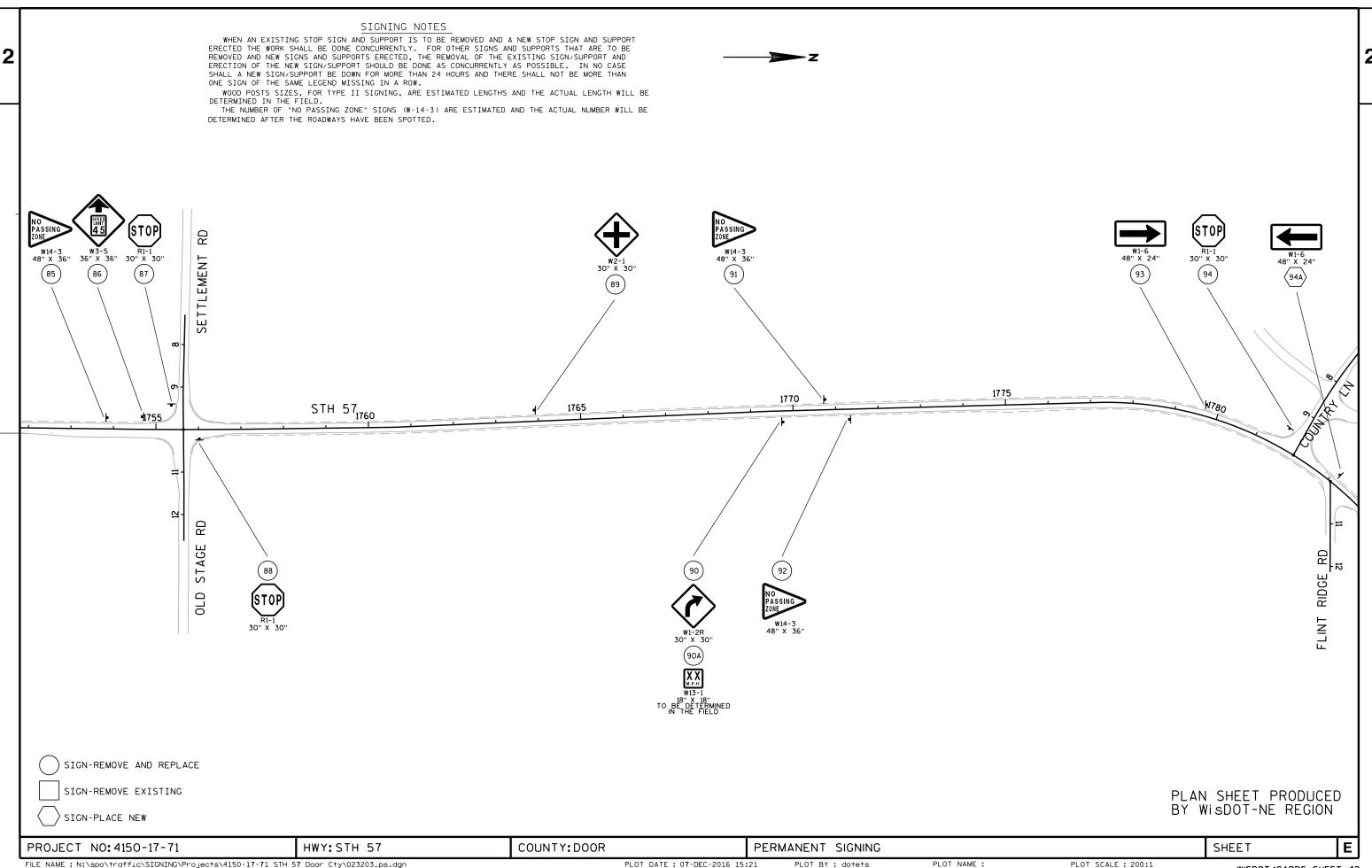
PLOT DATE: 07-DEC-2016 15:21

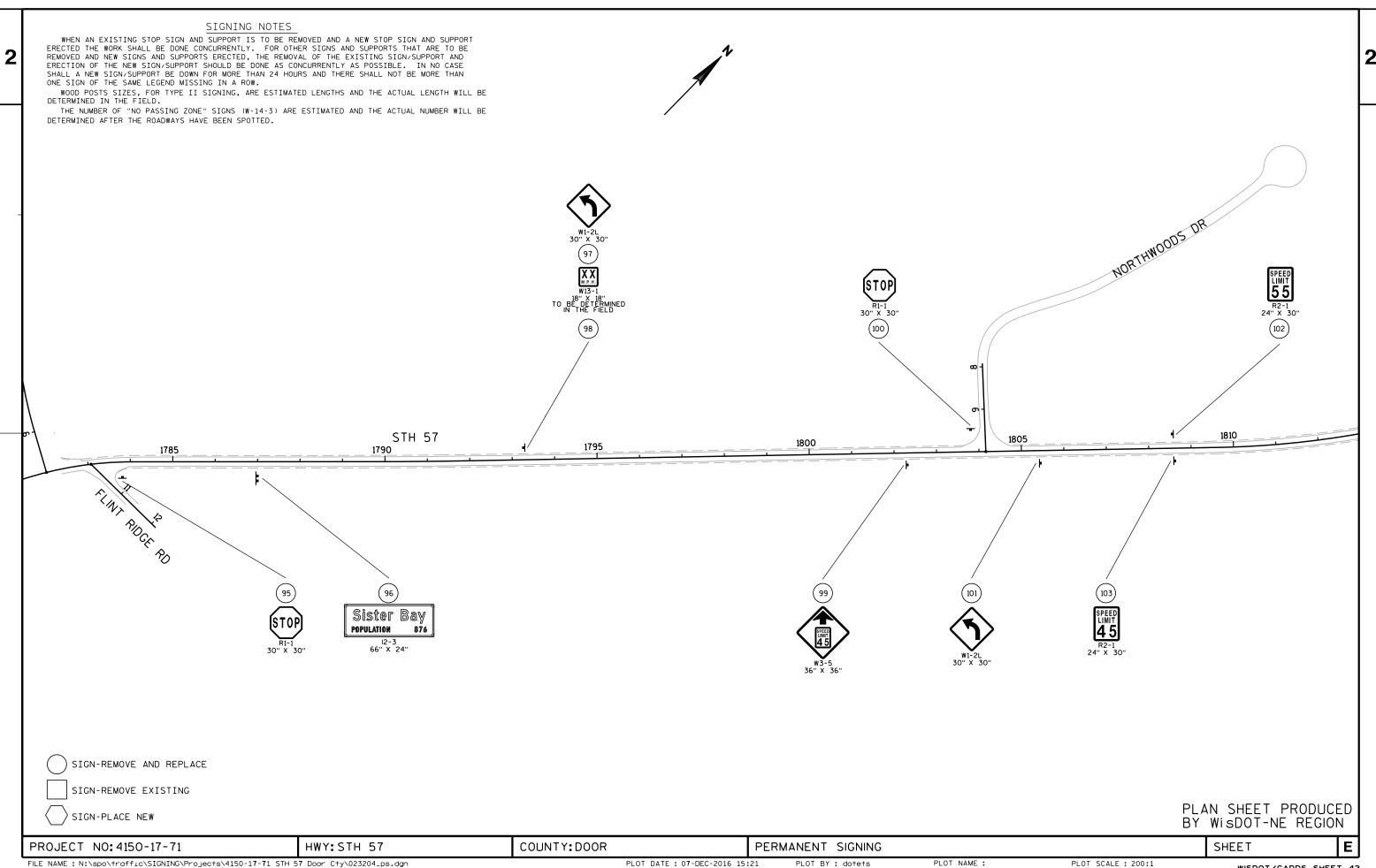
PLOT BY: dotets

PLOT NAME: PLOT SCALE: 200:1

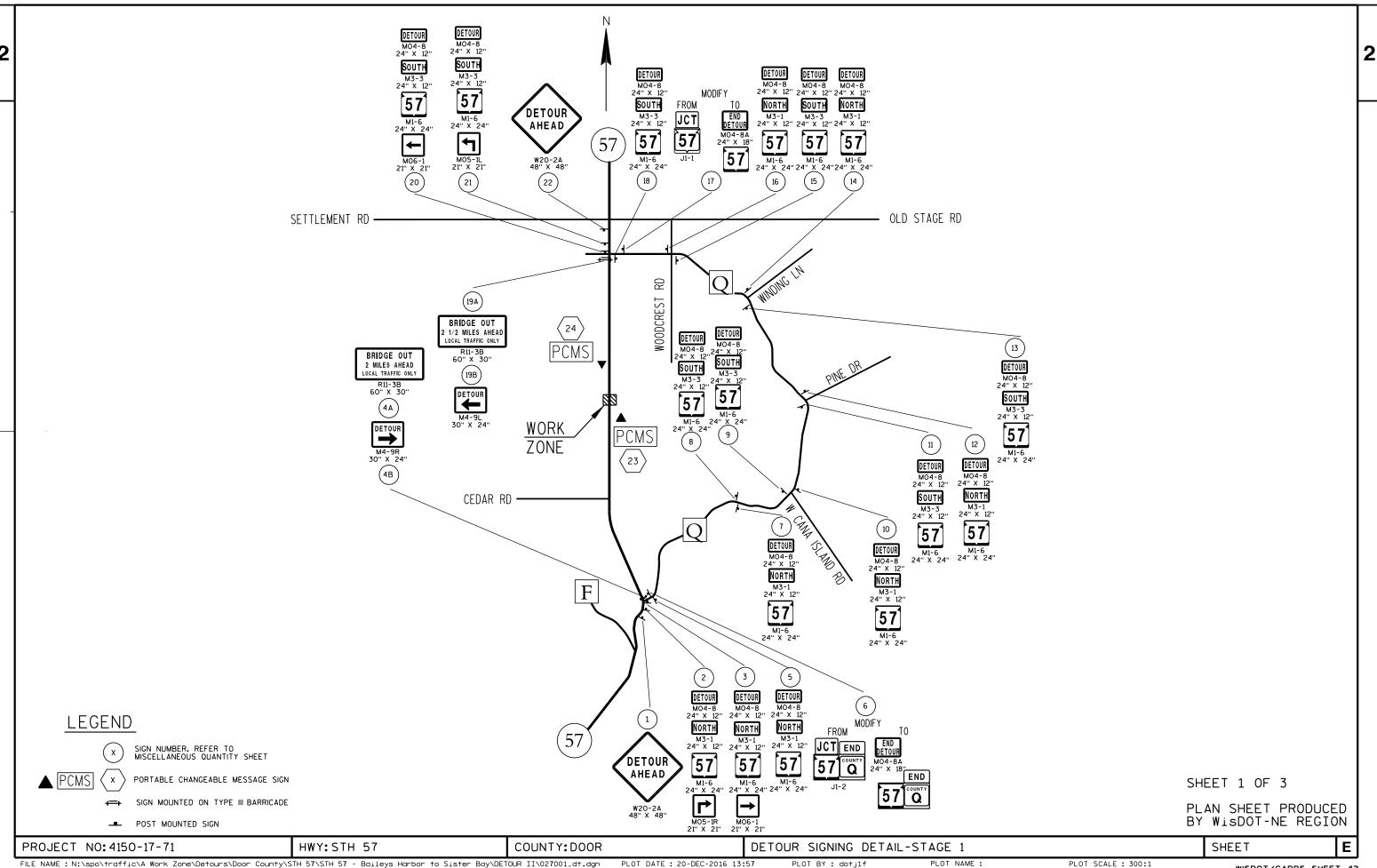
WISDOT/CADDS SHEET 42

2





PLOT DATE: 07-DEC-2016 15:21

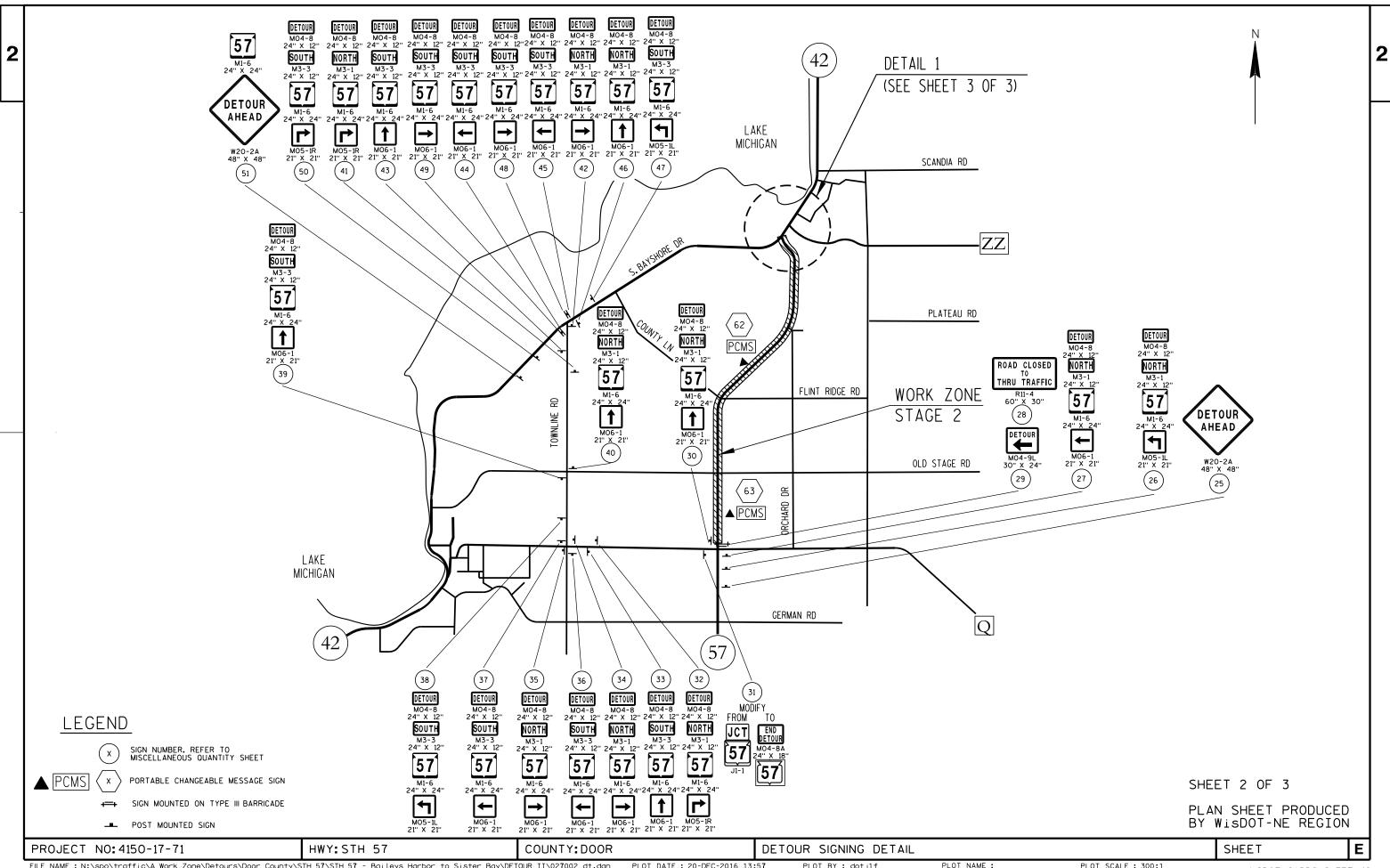


 $FILE NAME: N:\spo\traffic\A Work Zone\Detours\Door County\STH 57\STH 57 - Baileys Harbor to Sister Bay\DETOUR II\scalebox{11}\color=2001_dt.dgn$ 

PLOT BY : dotj1f

PLOT NAME :

WISDOT/CADDS SHEET 42



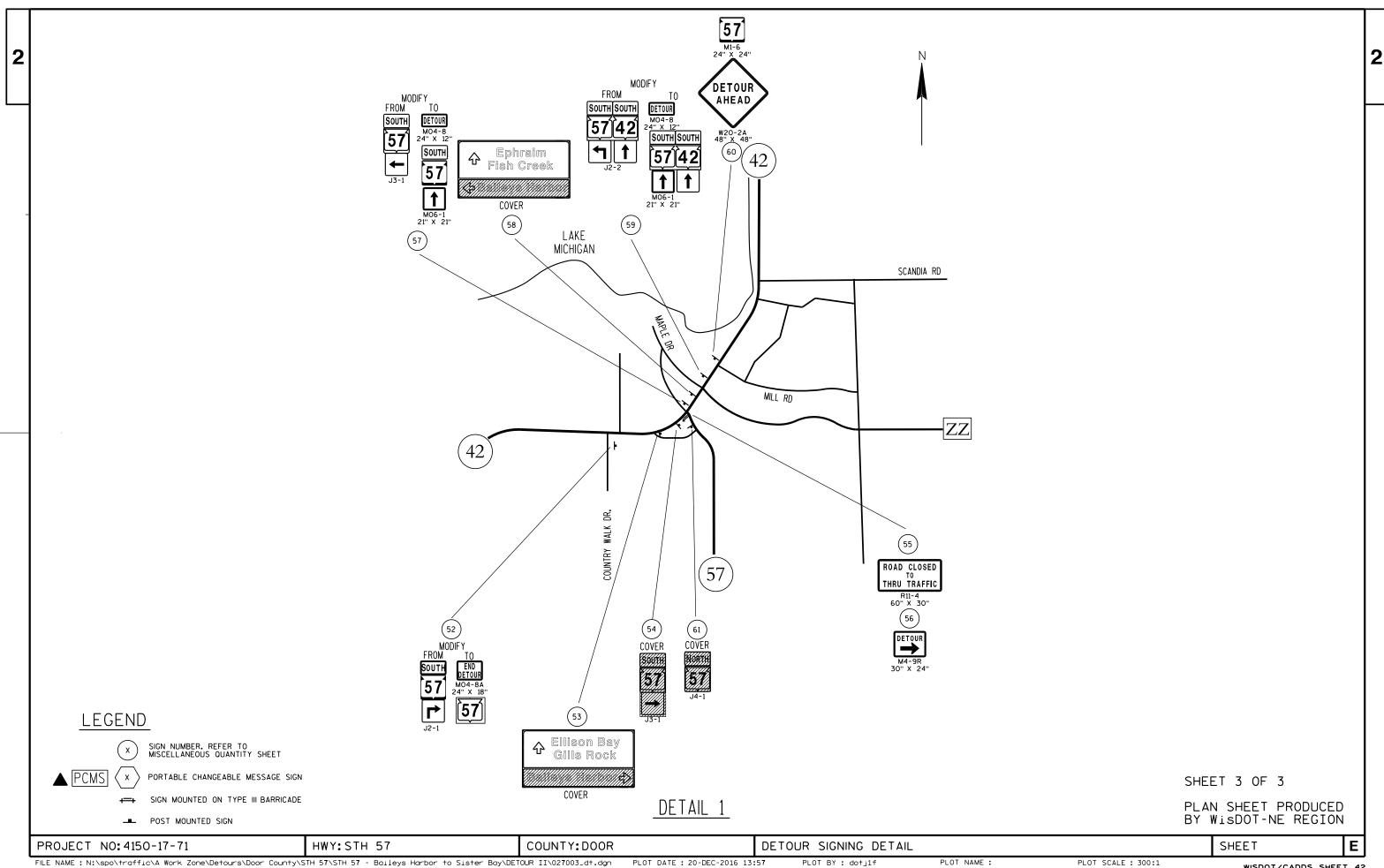
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PLOT DATE: 20-DEC-2016 13:57

PLOT BY: dotj1f

PLOT SCALE: 300:1

WISDOT/CADDS SHEET 42



WISDOT/CADDS SHEET 42

0370

502.0100

Concrete Masonry Bridges

CY

122.000

122.000

Page 1

					4150-17-71
Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	7.000	7.000
0010	201.0105	Clearing	ID	18.000	18.000
0020	201.0120	Grubbing	STA	7.000	7.000
0030	201.0203	Grubbing	ID	18.000	18.000
0050	201.0220	Removing Small Pipe Culverts	EACH	16.000	16.000
0060	203.0100 203.0600.S	Removing Old Structure Over Waterway With Minimal	LS	1.000	1.000
		Debris (station) 01. STA 1562+36			
0070	204.0110	Removing Asphaltic Surface	SY	40.000	40.000
0800	204.0115	Removing Asphaltic Surface Butt Joints	SY	440.000	440.000
0090	204.0120	Removing Asphaltic Surface Milling	SY	149,630.000	149,630.000
0100	204.0150	Removing Curb & Gutter	LF	110.000	110.000
0110	204.0165	Removing Guardrail	LF	480.000	480.000
0120	204.0205	Removing Utility Poles	EACH	1.000	1.000
0130	204.0220	Removing Inlets	EACH	1.000	1.000
0140	204.0245	Removing Storm Sewer (size) 01. 18-Inch	LF	45.000	45.000
0150	204.0270	Abandoning Culvert Pipes	EACH	1.000	1.000
0160	205.0100	Excavation Common	CY	760.000	760.000
0170	206.1000	Excavation for Structures Bridges (structure) 01. Structure B-15-26	LS	1.000	1.000
0180	206.5000	Cofferdams (structure) 01. Structure B-15-26	LS	1.000	1.000
0190	208.0100	Borrow	CY	67.000	67.000
0200	209.0300.S		CY	40.000	40.000
0210	210.1500	Backfill Structure Type A	TON	330.000	330.000
0220	211.0100	Prepare Foundation for Asphaltic Paving (project) 01.	LS	1.000	1.000
5225	211.0100	4150-17-71		1.000	1.000
0230	213.0100	Finishing Roadway (project) 01. 4150-17-71	EACH	1.000	1.000
0240	305.0110	Base Aggregate Dense 3/4-Inch	TON	965.000	965.000
0250	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,315.000	1,315.000
0260	440.4410	Incentive IRI Ride	DOL	63,600.000	63,600.000
0270	450.4000	HMA Cold Weather Paving	TON	5,750.000	5,750.000
0280	455.0605	Tack Coat	GAL	18,025.000	18,025.000
0290	460.2005	Incentive Density PWL HMA Pavement	DOL	22,590.000	22,590.000
0300	460.2010	Incentive Density F WE Find F avenuent  Incentive Air Voids HMA Pavement	DOL	33,020.000	33,020.000
0300	460.4110.S		LF	83,870.000	83,870.000
0310	460.4110.3	HMA Pavement 3 LT 58-28 S	TON		18,560.000
				18,560.000	
0330	460.5224	HMA Pavement 4 LT 58-28 S	TON	14,455.000	14,455.000
0340	465.0105	Asphaltic Surface	TON	110.000	110.000
0350	465.0110	Asphaltic Surface Patching	TON	20.000	20.000
0360	465.0315	Asphaltic Flumes	SY	30.000	30.000
70	E00 0400	Canarata Masanni Dridusa	$\sim$	400 000	400 000

## **Estimate Of Quantities**

41	50	1	7-71

					4150-17-71	
Line	Item	Item Description	Unit	Total	Qty	
0380	502.3200	Protective Surface Treatment	SY	193.000	193.000	
0390	505.0400	Bar Steel Reinforcement HS Structures	LB	5,900.000	5,900.000	
0400	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	10,500.000	10,500.000	
0410	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	18.000	18.000	
0420	513.7083	Railing Steel Type NY3 (structure) 01. Structure B-15-26	LF	89.000	89.000	
0430	516.0500	Rubberized Membrane Waterproofing	SY	20.000	20.000	
0440	521.0115	Culvert Pipe Corrugated Steel 15-Inch	LF	34.000	34.000	
0450	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	152.000	152.000	
0460	521.0124	Culvert Pipe Corrugated Steel 24-Inch	LF	430.000	430.000	
0470	521.1015	Apron Endwalls for Culvert Pipe Steel 15-Inch	EACH	2.000	2.000	
0480	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	7.000	7.000	
0490	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	20.000	20.000	
0500	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000	
0510	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000	
0520	550.0020	Pre-Boring Rock or Consolidated Materials	LF	210.000	210.000	
0530	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	238.000	238.000	
0540	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	410.000	410.000	
0550	606.0300	Riprap Heavy	CY	90.000	90.000	
0560	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	130.000	130.000	
0570	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	48.000	48.000	
0580	611.0612	Inlet Covers Type C	EACH	1.000	1.000	
0590	611.0642	Inlet Covers Type MS	EACH	3.000	3.000	
0600	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000	
0610	611.3901	Inlets Median 1 Grate	EACH	3.000	3.000	
0620	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	430.000	430.000	
0630	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	300.000	300.000	
0640	614.2300	MGS Guardrail 3	LF	300.000	300.000	
0650	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000	
0660	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0670	618.0100	Maintenance And Repair of Haul Roads (project) 01. Project 4150-17-71	EACH	1.000	1.000	
0680	619.1000	Mobilization	EACH	1.000	1.000	
0690	624.0100	Water	MGAL	10.000	10.000	
0700	625.0100	Topsoil	SY	3,650.000	3,650.000	
0710	628.1504	Silt Fence	LF	2,750.000	2,750.000	
0720	628.1520	Silt Fence Maintenance	LF	2,750.000	2,750.000	

				4150-17-71
Item	Item Description	Unit	Total	Qty
	·			
				5.000
				2.000
				2,315.000
	* *			1,330.000
	• •			4.000
			100.000	100.000
628.7555	Culvert Pipe Checks	EACH	45.000	45.000
628.7570	Rock Bags	EACH	250.000	250.000
629.0210	Fertilizer Type B	CWT	1.850	1.850
630.0130	Seeding Mixture No. 30	LB	63.000	63.000
630.0140	Seeding Mixture No. 40	LB	11.000	11.000
630.0200	Seeding Temporary	LB	42.000	42.000
633.5200	Markers Culvert End	EACH	32.000	32.000
634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	5.000	5.000
634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	90.000	90.000
634.0616	Posts Wood 4x6-Inch X 16-FT		15.000	15.000
				443.390
				252.500
				102.000
				107.000
				1.000
				1.000
				350.000
				1.000
				1,124.000
				1,868.000
	•			2,482.000
	• • • • • • • • • • • • • • • • • • • •			4.000
	•			28.000
				1.000
	•			2,838.000
	* *			190.000
646.2304.S	Inch		123,155.000	123,155.000
646.2308.S	Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	540.000	540.000
647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	20.000	20.000
648.0100	Locating No-Passing Zones	MI	7.950	7.950
	•			54,450.000
				7.000
	628.7570 629.0210 630.0130 630.0140 630.0200 633.5200 634.0612 634.0614 634.0616 637.2210 637.2230 638.2602 638.3000 642.5401 643.0100 643.0310.S 643.0420 643.0705 643.0900 643.0920 643.1050 643.2000 645.0120 646.2304.S	628.1910 Mobilizations Emergency Erosion Control 628.2004 Erosion Mat Class I Type B 628.2008 Erosion Mat Urban Class I Type B 628.7010 Inlet Protection Type B 628.7504 Temporary Ditch Checks 628.7555 Culvert Pipe Checks 628.7557 Rock Bags 629.0210 Fertilizer Type B 630.0130 Seeding Mixture No. 30 630.0140 Seeding Mixture No. 40 630.0200 Seeding Temporary 633.5200 Markers Culvert End 634.0612 Posts Wood 4x6-Inch X 12-FT 634.0614 Posts Wood 4x6-Inch X 14-FT 634.0616 Posts Wood 4x6-Inch X 16-FT 637.2210 Signs Type II Reflective H 637.2230 Signs Type II Reflective F 638.2602 Removing Signs Type II 638.3000 Removing Small Sign Supports 642.5401 Field Office Type D 643.0100 Traffic Control (project) 01. Project 4150-17-71 643.0300 Traffic Control Barricades Type III 643.0705 Traffic Control Warning Lights Type A 7 Traffic Control Signs PCMS 643.0900 Traffic Control Signs PCMS 643.2000 Traffic Control Signs PCMS 643.2000 Traffic Control Detour (project) 01. Project 4150-17-71 643.3000 Traffic Control Signs PCMS 643.0900 Traffic Control Signs PCMS 643.0900 Traffic Control Signs PCMS 643.2000 Traffic Control Detour (project) 01. Project 4150-17-71 643.3000 Traffic Control Detour (project) 01. Project 4150-17-71 643.3000 Traffic Control Signs PCMS 643.2000 Traffic Control Signs PCMS 643.2000 Traffic Control Detour (project) 01. Project 4150-17-71 643.3000 Traffic Control Detour Signs 645.0120 Geotextile Type HR 646.2304.S Pavement Marking Grooved Wet Reflective Epoxy 4-Inch 646.2308.S Pavement Marking Grooved Wet Reflective Epoxy 8-Inch 647.0566 Pavement Marking Stop Line Epoxy 18-Inch 648.0100 Locating No-Passing Zones 649.0402 Temporary Pavement Marking Paint 4-Inch	628.1910Mobilizations Emergency Erosion ControlEACH628.2004Erosion Mat Class I Type BSY628.2008Erosion Mat Urban Class I Type BSY628.7501Inlet Protection Type BEACH628.7504Temporary Ditch ChecksEACH628.7555Culvert Pipe ChecksEACH628.7570Rock BagsEACH629.0210Fertilizer Type BCWT630.0130Seeding Mixture No. 30LB630.0200Seeding Mixture No. 40LB630.0200Seeding Mixture No. 40LB633.5200Markers Culvert EndEACH634.0612Posts Wood 4x6-Inch X 12-FTEACH634.0614Posts Wood 4x6-Inch X 16-FTEACH637.2210Signs Type II Reflective HSF637.2230Signs Type II Reflective FSF638.2602Removing Signs Type IIEACH643.0300Removing Small Sign SupportsEACH643.0300Traffic Control (project) 01. Project 4150-17-71EACH643.0300Traffic Control Barricades Type IIIDAY643.0400Traffic Control Barricades Type IIIDAY643.0900Traffic Control Barricades Type IIIDAY643.0900Traffic Control Barricades Type IIIDAY643.0900Traffic Control Barricades Type IIIDAY643.0900Traffic Control Barricades Type IIIEACH643.0900Traffic Control Barricades Type IIIDAY643.0900Traffic Control Barricades Type IIIEACH <td< td=""><td>628.1910         Mobilizations Emergency Erosion Control         EACH         2.000           628.2004         Erosion Mat Class I Type B         SY         2,315.000           628.2008         Erosion Mat Urban Class I Type B         SY         1,330.000           628.7010         Inlet Protection Type B         EACH         4.000           628.7504         Temporary Ditch Checks         LF         100.000           628.7570         Rock Bags         EACH         250.000           629.0210         Fertilizer Type B         CWT         1.850           630.0130         Seeding Mixture No. 30         LB         63.000           630.0200         Seeding Temporary         LB         42.000           633.5200         Markers Culvert End         EACH         32.000           634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         32.000           634.0614         Posts Wood 4x6-Inch X 14-FT         EACH         15.000           637.2210         Signs Type II Reflective H         SF         443.390           637.2230         Signs Type II Reflective F         SF         252.500           638.2602         Removing Small Sign Supports         EACH         100.00           643.0100         Traffic Co</td></td<>	628.1910         Mobilizations Emergency Erosion Control         EACH         2.000           628.2004         Erosion Mat Class I Type B         SY         2,315.000           628.2008         Erosion Mat Urban Class I Type B         SY         1,330.000           628.7010         Inlet Protection Type B         EACH         4.000           628.7504         Temporary Ditch Checks         LF         100.000           628.7570         Rock Bags         EACH         250.000           629.0210         Fertilizer Type B         CWT         1.850           630.0130         Seeding Mixture No. 30         LB         63.000           630.0200         Seeding Temporary         LB         42.000           633.5200         Markers Culvert End         EACH         32.000           634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         32.000           634.0614         Posts Wood 4x6-Inch X 14-FT         EACH         15.000           637.2210         Signs Type II Reflective H         SF         443.390           637.2230         Signs Type II Reflective F         SF         252.500           638.2602         Removing Small Sign Supports         EACH         100.00           643.0100         Traffic Co

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## **Estimate Of Quantities**

4150-1	7-71
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Line	Item	Item Description	Unit	Total	Qty
1110	650.6000	Construction Staking Pipe Culverts	EACH	14.000	14.000
1120	650.6500	Construction Staking Structure Layout (structure) 01. Structure B-15-26	LS	1.000	1.000
1130	650.8000	Construction Staking Resurfacing Reference	LF	41,977.000	41,977.000
1140	650.9910	Construction Staking Supplemental Control (project) 01. Project 4150-17-71	LS	1.000	1.000
1150	650.9920	Construction Staking Slope Stakes	LF	3,234.000	3,234.000
1160	690.0150	Sawing Asphalt	LF	3,340.000	3,340.000
1170	690.0250	Sawing Concrete	LF	12.000	12.000
1180	715.0502	Incentive Strength Concrete Structures	DOL	732.000	732.000
1190	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,400.000	2,400.000
1200	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	2,100.000	2,100.000
1210	SPV.0060	Special 01. Grading, Shaping, and Finishing Cross Culverts	EACH	15.000	15.000
1220	SPV.0060	Special 02. HMA Percent Within Limits (PWL) Test Strip	EACH	2.000	2.000
1230	SPV.0090	Special 01. 16 Gauge Galvanized Metal Flashing	LF	71.000	71.000
1240	SPV.0090	Special 02. Prestressed Girders Box Type 17-Inch	LF	347.000	347.000
1250	SPV.0120	Special 01. Water for Seeded Areas	MGAL	15.000	15.000

			CLEA	RING AND	GRUBBIN	<u>IG</u>		
					201.0105	201.0120	201.0205	201.0220
CATEGORY	STATION	TO	STATION	LOCATION	STA	ID	STA	ID
0010	1520+66			LT		8		8
0010	1521+01			LT		10		10
0010	1560+00	_	1562+00	LT	2		2	
0010	1563+00	_	1566+00	LT	3		3	
0010	1761+00	_	1763+00	LT	2		2	
				TOTALS	7	18	7	18

CATEGORY   STATION   LOCATION   EACH   REMARKS					
CATEGORY         STATION         LOCATION         EACH         REMARKS           0010         1435+68         STH 57         1         18" CMCP - 37 LF           0010         1475+66         STH 57         1         18" CMCP - 46 LF           0010         1510+37         STH 57         1         24" CMCP - 46 LF           0010         1519+04         STH 57         1         24" CMCP - 47 LF           0010         1536+62         STH 57         1         24" CMCP - 51 LF           0010         1543+13         STH 57         1         24" CMCP - 53 LF           0010         1603+91         STH 57         1         15" CMCP - 37 LF           0010         1675+98         STH 57         1         18" CMCP (WITH 15" LINER) - 67           0010         1675+98         STH 57         1         24" CMCP - 39 LF           0010         1712+46         STH 57         1         24" CMCP - 40 LF           0010         1712+50         STH 57         1         24" CMCP - 42 LF           0010         1733+85         STH 57         1         24" CMCP - 49 LF           0010         1750+00         STH 57         1         24" CMCP - 59 LF           0010 <td></td> <td></td> <td>REMOVING S</td> <td>SMALL PIPE (</td> <td>CULVERT</td>			REMOVING S	SMALL PIPE (	CULVERT
CATEGORY         STATION         LOCATION         EACH         REMARKS           0010         1435+68         STH 57         1         18" CMCP - 37 LF           0010         1475+66         STH 57         1         18" CMCP - 46 LF           0010         1510+37         STH 57         1         24" CMCP - 46 LF           0010         1519+04         STH 57         1         24" CMCP - 47 LF           0010         1536+62         STH 57         1         24" CMCP - 51 LF           0010         1543+13         STH 57         1         24" CMCP - 53 LF           0010         1603+91         STH 57         1         15" CMCP - 37 LF           0010         1675+98         STH 57         1         18" CMCP (WITH 15" LINER) - 67           0010         1675+98         STH 57         1         24" CMCP - 39 LF           0010         1712+46         STH 57         1         24" CMCP - 39 LF           0010         1712+50         STH 57         1         24" CMCP - 40 LF           0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 59 LF           0010 <td></td> <td></td> <td></td> <td>203.0100</td> <td></td>				203.0100	
0010         1475+66         STH 57         1         18" CMCP - 46 LF           0010         1510+37         STH 57         1         18" CMCP - 46 LF           0010         1519+04         STH 57         1         24" CMCP - 47 LF           0010         1536+62         STH 57         1         24" CMCP - 51 LF           0010         1543+13         STH 57         1         24" CMCP - 53 LF           0010         1603+91         STH 57         1         15" CMCP - 37 LF           0010         1675+98         STH 57         1         18" CMCP (WITH 15" LINER) - 67           0010         1712+46         STH 57         1         24" CMCP - 39 LF           0010         1712+50         STH 57         1         24" CMCP - 40 LF           0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 49 LF           0010         1756+21         STH 57         1         24" CMCP - 59 LF           0010         1770+74         STH 57         1         24" CMCP - 62 LF	CATEGORY	STATION	LOCATION		REMARKS
0010         1510+37         STH 57         1         18" CMCP - 46 LF           0010         1519+04         STH 57         1         24" CMCP - 47 LF           0010         1536+62         STH 57         1         24" CMCP - 51 LF           0010         1543+13         STH 57         1         24" CMCP - 53 LF           0010         1603+91         STH 57         1         15" CMCP - 37 LF           0010         1675+98         STH 57         1         18" CMCP (WITH 15" LINER) - 67           0010         1712+46         STH 57         1         24" CMCP - 39 LF           0010         1712+50         STH 57         1         24" CMCP - 40 LF           0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 49 LF           0010         1756+21         STH 57         1         24" CMCP - 59 LF           0010         1770+74         STH 57         1         24" CMCP - 46 LF           0010         1811+02         STH 57         1         24" CMCP - 62 LF	0010	1435+68	STH 57	1	18" CMCP - 37 LF
0010         1519+04         STH 57         1         24" CMCP - 47 LF           0010         1536+62         STH 57         1         24" CMCP - 51 LF           0010         1543+13         STH 57         1         24" CMCP - 53 LF           0010         1603+91         STH 57         1         15" CMCP - 37 LF           0010         1675+98         STH 57         1         18" CMCP (WITH 15" LINER) - 67           0010         1712+46         STH 57         1         24" CMCP - 39 LF           0010         1712+50         STH 57         1         24" CMCP - 40 LF           0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 49 LF           0010         1756+21         STH 57         1         24" CMCP - 59 LF           0010         1770+74         STH 57         1         24" CMCP - 46 LF           0010         1811+02         STH 57         1         24" CMCP - 62 LF	0010	1475+66	STH 57	1	18" CMCP - 46 LF
0010         1536+62         STH 57         1         24" CMCP - 51 LF           0010         1543+13         STH 57         1         24" CMCP - 53 LF           0010         1603+91         STH 57         1         15" CMCP - 37 LF           0010         1675+98         STH 57         1         18" CMCP (WITH 15" LINER) - 67           0010         1712+46         STH 57         1         24" CMCP - 39 LF           0010         1712+50         STH 57         1         24" CMCP - 40 LF           0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 49 LF           0010         1756+21         STH 57         1         24" CMCP - 59 LF           0010         1770+74         STH 57         1         24" CMCP - 46 LF           0010         1811+02         STH 57         1         24" CMCP - 62 LF	0010	1510+37	STH 57	1	18" CMCP - 46 LF
0010         1543+13         STH 57         1         24" CMCP - 53 LF           0010         1603+91         STH 57         1         15" CMCP - 37 LF           0010         1675+98         STH 57         1         18" CMCP (WITH 15" LINER) - 67           0010         1712+46         STH 57         1         24" CMCP - 39 LF           0010         1712+50         STH 57         1         24" CMCP - 40 LF           0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 49 LF           0010         1756+21         STH 57         1         24" CMCP - 59 LF           0010         1770+74         STH 57         1         24" CMCP - 46 LF           0010         1811+02         STH 57         1         24" CMCP - 62 LF	0010	1519+04	STH 57	1	24" CMCP - 47 LF
0010         1603+91         STH 57         1         15" CMCP - 37 LF           0010         1675+98         STH 57         1         18" CMCP (WITH 15" LINER) - 67           0010         1712+46         STH 57         1         24" CMCP - 39 LF           0010         1712+50         STH 57         1         24" CMCP - 40 LF           0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 49 LF           0010         1756+21         STH 57         1         24" CMCP - 59 LF           0010         1770+74         STH 57         1         24" CMCP - 46 LF           0010         1811+02         STH 57         1         24" CMCP - 62 LF	0010	1536+62	STH 57	1	24" CMCP - 51 LF
0010         1675+98         STH 57         1         18" CMCP (WITH 15" LINER) - 67           0010         1712+46         STH 57         1         24" CMCP - 39 LF           0010         1712+50         STH 57         1         24" CMCP - 40 LF           0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 49 LF           0010         1756+21         STH 57         1         24" CMCP - 59 LF           0010         1770+74         STH 57         1         24" CMCP - 46 LF           0010         1811+02         STH 57         1         24" CMCP - 62 LF	0010	1543+13	STH 57	1	24" CMCP - 53 LF
0010         1712+46         STH 57         1         24" CMCP - 39 LF           0010         1712+50         STH 57         1         24" CMCP - 40 LF           0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 49 LF           0010         1756+21         STH 57         1         24" CMCP - 59 LF           0010         1770+74         STH 57         1         24" CMCP - 46 LF           0010         1811+02         STH 57         1         24" CMCP - 62 LF	0010	1603+91	STH 57	1	15" CMCP - 37 LF
0010         1712+50         STH 57         1         24" CMCP - 40 LF           0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 49 LF           0010         1756+21         STH 57         1         24" CMCP - 59 LF           0010         1770+74         STH 57         1         24" CMCP - 46 LF           0010         1811+02         STH 57         1         24" CMCP - 62 LF	0010	1675+98	STH 57	1	18" CMCP (WITH 15" LINER) - 67 LF
0010         1733+85         STH 57         1         24" CMCP - 42 LF           0010         1750+00         STH 57         1         24" CMCP - 49 LF           0010         1756+21         STH 57         1         24" CMCP - 59 LF           0010         1770+74         STH 57         1         24" CMCP - 46 LF           0010         1811+02         STH 57         1         24" CMCP - 62 LF	0010	1712+46	STH 57	1	24" CMCP - 39 LF
0010     1750+00     STH 57     1     24" CMCP - 49 LF       0010     1756+21     STH 57     1     24" CMCP - 59 LF       0010     1770+74     STH 57     1     24" CMCP - 46 LF       0010     1811+02     STH 57     1     24" CMCP - 62 LF	0010	1712+50	STH 57	1	24" CMCP - 40 LF
0010     1756+21     STH 57     1     24" CMCP - 59 LF       0010     1770+74     STH 57     1     24" CMCP - 46 LF       0010     1811+02     STH 57     1     24" CMCP - 62 LF	0010	1733+85	STH 57	1	24" CMCP - 42 LF
0010         1770+74         STH 57         1         24" CMCP - 46 LF           0010         1811+02         STH 57         1         24" CMCP - 62 LF	0010	1750+00	STH 57	1	24" CMCP - 49 LF
0010 1811+02 STH 57 1 24" CMCP - 62 LF	0010	1756+21	STH 57	1	24" CMCP - 59 LF
	0010	1770+74	STH 57	1	24" CMCP - 46 LF
0010 10+59 SUN PLAZA 1 18" CMCP SOUTH AEW ONLY	0010	1811+02	STH 57	1	24" CMCP - 62 LF
	0010	10+59	SUN PLAZA	1	18" CMCP SOUTH AEW ONLY
TOTAL 16		TOTAL		16	-
				-	

			REMOVIN	G ASHPHA	LTIC SUR	FACE.				
	204.0110									
CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS				
0010	1451+60	_	1452+65	RT	10	CURB & GUTTER REPLACEMENT				
0010	1837+49	_	1838+00	RT	28	PARKING LOT REMOVAL				
0010	1756+16	-	1756+37	LT & RT	2	CURB & GUTTER REPLACEMENT				
				TOTALS	40					

	REMOVING	ASPHALTIC SURFACE BUTT J	<u>OINTS</u>	
			204.0115	
CATEGORY	STATION	LOCATION	SY	REMARKS
0010	1423+24	STH 57	7	
0010	11+13	SUN PLAZA ROAD	5	
0010	8+86	AHRENS ROAD	5	
0010	10+39	E. MEADOW ROAD	5	
0010	9+00	W. MEADOW ROAD	5	
0010	11+04	GROVE ROAD (EAST)	5	
0010	8+75	GROVE ROAD (WEST)	5	
0010	10+84	OLD LIME KILN ROAD (EAST)	5	
0010	8+57	OLD LIME KILN ROAD (WEST)	5	
0010	10+53	PIONEER ROAD (EAST)	5	
0010	9+15	PIONEER ROAD (WEST)	6	
0010	11+00	GERMAN ROAD (EAST)	4	
0010	9+17	GERMAN ROAD (WEST)	5	
0010	11+02	CTH Q (EAST)	5	
0010	8+77	CTH Q (WEST)	5	
0010	9+32	SETTLEMENT ROAD	9	
0010	10+68	OLD STAGE ROAD	6	
0010	9+30	COUNTRY LANE	7	
0010	10+75	FLINT RIDGE ROAD	5	
0010	9+36	NORTHWOODS ROAD	5	
0010	11+19	ORCHARD ROAD	5	
0010	9+03	COUNTRY WALK DRIVE	6	
0010	1843+01	STH 57	20	
0010	DRIVEWAYS		300	
	TOTAL		440	<b>-</b>

		R	EMOVING	ASPHALTIC SURFACE MILLING		
					204.0120	
CATEGORY	STATION	то	STATION	LOCATION	SY	REMARKS
0010	1423+24	-	1452+35	STH 57	9875	
0010	1452+35	-	1518+25	STH 57	22090	
0010	1518+25	-	1562+56	STH 57	14620	
0010	1562+56	-	1596+87	STH 57	11420	
0010	1596+87	-	1623+33	STH 57	8880	
0010	1623+33	-	1649+99	STH 57	8890	
0010	1649+99	-	1676+54	STH 57	8850	
0010	1676+54	-	1703+24	STH 57	8900	
0010	1703+24	-	1729+17	STH 57	9050	
0010	1729+17	-	1755+65	STH 57	9110	
0010	1755+65	-	1782+01	STH 57	8790	
0010	1782+01	-	1804+16	STH 57	7385	
0010	1804+16	-	1816+84	STH 57	4295	
0010	1816+84	-	1833+77	STH 57	5645	
0010	1833+77	-	1843+01	STH 57	3520	
0010	11+13	-	STH 57	SUN PLAZA ROAD	435	
0010	8+86	-	STH 57	AHRENS ROAD	450	
0010	10+39	-	STH 57	E. MEADOW ROAD	80	
0010	9+00	-	STH 57	W. MEADOW ROAD	405	
0010	11+04	-	STH 57	GROVE ROAD (EAST)	390	
0010	8+75	-	STH 57	GROVE ROAD (WEST)	490	
0010	10+84	_	STH 57	OLD LIME KILN ROAD (EAST)	245	
0010	8+57	-	STH 57	OLD LIME KILN ROAD (WEST)	500	
0010	10+53	-	STH 57	PIONEER ROAD (EAST)	140	
0010	9+15	-	STH 57	PIONEER ROAD (WEST)	360	
0010	11+00	-	STH 57	GERMAN ROAD (EAST)	290	
0010	9+17	-	STH 57	GERMAN ROAD (WEST)	280	
0010	11+02	-	STH 57	CTH Q (EAST)	520	
0010	8+77	-	STH 57	CTH Q (WEST)	560	
0010	9+32	-	STH 57	SETTLEMENT ROAD	380	
0010	10+68	_	STH 57	OLD STAGE ROAD	290	
0010	9+30	-	STH 57	COUNTRY LANE	370	
0010	10+75	-	STH 57	FLINT RIDGE ROAD	230	
0010	9+36	-	STH 57	NORTHWOODS ROAD	260	
0010	11+19	_	STH 57	ORCHARD ROAD	510	
0010	9+03	_	STH 57	COUNTRY WALK DRIVE	380	
0010	DRI	VEW	AYS		745	
				TOTALS	149630	

REMARKS
R

REMOVING GUARDRAIL											
					204.0165						
CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS					
0010	1560+54	_	1563+18	RT	240	RAIL ATTACHED TO STRUCTURE C-15-37					
0010	1561+54	_	1564+48	LT	240	INCLUDED IN STRUCTURE REMOVAL					
				TOTALS	480	•					

	REMOVING UTILITY POLES											
			204.0205									
CATEGORY	STATION	LOCATION	EACH	REMARKS								
0010	1454+30	STH 57 LT	1	ABANDONED UTILITY POLE								
	TOTAL		1									

	REMOVING INLETS											
			204.0220									
CATEGORY	STATION	LOCATION	EACH	REMARKS								
0010	1686+03	STH 57 RT	1									
	TOTAL		1	•								

REMOVING STORM SEWER 18-INCH									
		204.0245.01							
STATION	LOCATION	LF	REMARKS						
1686+03	STH 57	45							
TOTAL		45	=						
	STATION 1686+03	STATION LOCATION 1686+03 STH 57	204.0245.01 STATION LOCATION LF 1686+03 STH 57 45						

	ABANDONING CULVERT PIPES											
			204.0270									
CATEGORY	STATION	LOCATION	EA	REMARKS								
0010	1449+58	STH 57	1	30" CMCP								
	TOTAL		1	•								

					211.0100
CATEGORY	STATION	то	STATION	LOCATION	LS
0010	1423+23.74	-	1562+15.75	STH 57	1
0010	1562+56.25	-	1843+00.91	STH 57	<b>_</b>

### **EARTHWORK SUMMARY**

				Salvaged/ Unusable			Evenended	Mass		Borrow	
DIVISION	Location		~~		Material (4)	Unexpanded Fill	Expanded Fill (5)	Ordinate +/- (6)	Waste	Item # 208.0100	Comment:
DIVISION	Location	item#	<b>EBS</b>	Material	(4)		1 111 (3)	17 (0)	waste	200.0100	Comment
			Excava								
		Cut (2)	tion (3)				Factor			Factor	
							1.33			1.15	
	STA. 1428+00 - STA. 1430+25, STH 57	42	0	0	42	0	0	42			
	STA. 1461+70 - STA. 1462+90, STH 57	1	0	0	1	16	21	-20			
1	STA. 1473+75 - STA. 1482+00, STH 57	14	0	0	14	233	310	-296			
1	STA. 1520+00 - STA. 1522+75, STH 57	311	0	0	311	7	9	302			
	STA. 1558+77 - STA. 1566+06, STH 57	200	0	0	200	372	495	-295			
	STA. 1759+50 - STA. 1762+50, STH 57	192	0	0	192	2	3	189			
Total		760	0	0	760		838	-78		67	
	Total	Common Ex	760								

- 1) Excavation Common is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Material is included in Cut. Volume of concrete pavement to be removed is included in salvaged/unusable material.
- 4) Available Material = Cut Salvaged/Unusuable Material
- 5) Expanded Fill Factor = 1.33. Expanded Fill = Unexpanded Fill \* Fill Factor. No Rock, Marsh, or EBS will be used in fill on this project.
- 6) 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.

					J	BASE AGGRE	GATE DENSE
					305.0110 3/4-INCH	305.0120 1-1/4-INCH	
CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	REMARKS
0010	1423+24	-	1452+35	STH 57	50	20	1-1/4-INCH FOR CURB & GUTTER REPLACEMENT AT SUN PLAZA ROAD
0010	1452+35	_	1518+25	STH 57	125		
0010	1518+25	-	1562+15	STH 57	85	410	1-1/4-INCH FOR ROADWAY WIDENING AT STR. B- $15-26$
0010	1562+58	_	1596+87	STH 57	60	410	1-1/4-INCH FOR ROADWAY WIDENING AT STR. B-15-26
0010	1596+87	_	1623+33	STH 57	50		
0010	1623+33	_	1649+99	STH 57	50		
0010	1649+99	-	1676+54	STH 57	50		
0010	1676+54	_	1703+24	STH 57	55		
0010	1703+24	_	1729+17	STH 57	45		
0010	1729+17	_	1755+65	STH 57	50		
0010	1755+65	_	1782+01	STH 57	50	150	1-1/4 INCH FOR CURB & GUTTER PLACEMENT AT SETTLEMENT ROAD
0010	1782+01	_	1804+16	STH 57	40		
0010	1804+16	-	1816+84	STH 57	25		
0010	1816+84	-	1833+77	STH 57	35		
0010	1833+77	-	1843+01	STH 57	20		
0010		S	IDEROADS		115		
0010		DI	RIVEWAYS		60		
0010	CULVER	T P	IPE REPLAC	CEMENTS		325	
		***************************************					
				TOTALS	965	1315	

					НМ	A PAVEMEN	IT SUMMARY						
					455.0605	ΗΜΔ ΡΔΥ	EMENT 3 LT	58-28 S	Ι μμα ραν	EMENT 4 LT	58-28 S	460.4110.S	
					455.0005	TIMA TAV	PWL	PWL	TIMA TAV	PWL	PWL	REHEATING HMA	
							DENSITY	AIR		DENSITY	AIR	PAVEMENT LONG.	
					TACK COAT	460.5223		VOIDS	460.5224		VOIDS	JOINTS	
CATEGORY	STATION	то	STATTON	LOCATION	GAL	TON	TON*	TON**	TON	TON*	TON**	LF	REMARKS
0010	1423+24	_	1452+35		1185	1225	885	1225	950	685	950	5822	
0010	1452+35	_	1518+25	STH 57	2650	2735	1995	2735	2125	1550	2125	13180	
0010	1518+25	_	1562+15	STH 57	1775	1830	1330	1830	1425	1035	1425	8780	
0010	1562+57		1596+87	STH 57	1390	1435	1040	1435	1115	805	1115	6860	
0010	1596+87	_	1623+33	STH 57	1065	1100	800	1100	860	625	860	5292	
0010	1623+33	_	1649+99	STH 57	1065	1100	805	1100	860	630	860	5332	
0010	1649+99	_	1676+54	STH 57	1065	1095	805	1095	850	625	850	5310	
0010	1676+54	_	1703+24	STH 57	1070	1105	810	1105	860	630	860	5340	
0010	1703+24	_	1729+17	STH 57	1085	1120	785	1120	870	610	870	5186	
0010	1729+17	_	1755+65	STH 57	1095	1130	805	1130	880	625	880	5296	
0010	1755+65	_	1782+01	STH 57	1055	1090	800	1090	845	620	845	5272	
0010	1782+01	_	1804+16	STH 57	890	915	670	915	710	520	710	4430	
0010	1804+16	_	1816+84	STH 57	515	535	385	535	415	300	415	2536	
0010	1816+84	_	1833+77	STH 57	680	700	515	700	545	400	545	3386	
0010	1833+77	_	1843+01	STH 57	425	435	280	435	340	220	340	1848	
0010	11+13	_	STH 57	SUN PLAZA ROAD	55	55		55	40		40		
0010	8+86	_	STH 57	AHRENS ROAD	55	55		55	45		45		
0010	10+39	_	STH 57	E. MEADOW ROAD	10	10		10	10		10		
0010	9+00	_	STH 57	W. MEADOW ROAD	45	50		50	40		40		
0010	11+04	-	STH 57	GROVE ROAD (EAST)	50	50		50	40		40		
0010	8+75	-	STH 57	GROVE ROAD (WEST)	60	60		60	45		45		
0010	10+84	_	STH 57	OLD LIME KILN ROAD (EAST)	30	30		30	25		25		
0010	8+57	_	STH 57	OLD LIME KILN ROAD (WEST)	60	60		60	50		50		
0010	10+53	_	STH 57	PIONEER ROAD (EAST)	20	20		20	15		15		
0010	9+15	-	STH 57	PIONEER ROAD (WEST)	45	45		45	35		35		
0010	11+00	-	STH 57	GERMAN ROAD (EAST)	35	35		35	30		30		
0010	9+17	-	STH 57	GERMAN ROAD (WEST)	35	35		35	25		25		
0010	11+02	-	STH 57	CTH Q (EAST)	65	65		65	50		50		
0010	8+77	-	STH 57	CTH Q (WEST)	70	70		70	55		55		
0010	9+32	-	STH 57	SETTLEMENT ROAD	45	45		45	35		35		
0010	10+68	-	STH 57	OLD STAGE ROAD	35	35		35	30		30		
0010	9+30	_	STH 57	COUNTRY LANE	45	45		45	35		35		
0010	10+75	-	STH 57	FLINT RIDGE ROAD	30	30		30	20		20		
0010	9+36	-	STH 57	NORTHWOODS ROAD	30	35		35	25		25		
0010	11+19	-	STH 57	ORCHARD ROAD	60	35		35	50		50		
0010	9+03		STH 57	COUNTRY WALK DRIVE	45	50	_	50	35	_	35		
	DRI	VEW	AYS		90	95		95	70		70		
				TOTALS	18025	18560	12710	18560	14455	9880	14455	83870	

<sup>\*</sup>TONNAGE IS ELIGIBLE FOR INCENTIVE DENSITY PWL 460.2005 AND INCENTIVE AIR VOIDS 460.2010.

<sup>\*\*</sup>TONNAGE IS ELIGIBLE FOR INCENTIVE AIR VOIDS 460.2010 AND DENSITY IS TESTED FOR ACCEPTANCE IN THOSE AREA.

	ASPHAL	T SURFACE	SUMMARY	
		465.0105	465.0110	
			ASPHALTIC	
		ASPHALTIC	SURFACE	
		SURFACE	PATCHING	
CATEGORY	LOCATION	TON	TON	REMARKS
0010	STH 57	105		CULVERT/STORM REPLACEMENTS
0010	SUN PLAZA ROAD	4		CURB & GUTTER REPLACEMENT
0010	SETTLEMENT ROAD/OLD STAGE ROAD	1		CURB & GUTTER REPLACEMENT
0010	STH 57		20	UNDISTRIBUTED
				_
	TOTALS	110	20	=

	ASPHALTIC FLUMES		
		465.0315	
CATEGORY	LOCATION	SY	REMARKS
0010	SE QUADRANT STH 57/SUN PLAZA ROAD	4	
0010	NE QUADRANT STH 57/SUN PLAZA ROAD	3	
0010	NW QUADRANT STH 57/GROVE ROAD	3	
0010	SW QUADRANT STH 57/OLD LIME KILN ROAD	3	
0010	NW QUADRANT STH 57/OLD LIME KILN ROAD	3	
0010	SW QUADRANT STH 57/CTH Q	3	
0010	STA. 1759+50, STH 57 LT	4	
0010	STA. 1762+50, STH 57 LT	4	
0010	NE QUADRANT STH 57/ORCHARD ROAD	3	
			_
	TOTALS	30	_

						CULVERT PIPE	SUMMARY							
		521.0115 CULVERT PIPE	521.0118 CULVERT PIPE	521.0124 CULVERT PIPE	521.1015 APRON ENDWALLS	521.1018 APRON ENDWALLS	521.1024 APRON ENDWALLS	*633.5200	650.6000 CONSTRUCTION	SPV.0060.01				
		CORRUGATED	CORRUGATED	CORRUGATED	FOR CULVERT	FOR CULVERT	FOR CULVERT	MARKERS	STAKING	GRADING, SHAPING,			MINIMUM	
		STEEL	STEEL	STEEL	PIPE STEEL	PIPE STEEL	PIPE STEEL	CULVERT	PIPE	AND FINISHING			THICKNESS	5
		15-INCH	18-INCH	24-INCH	15-INCH	18-INCH	24-INCH	END	CULVERTS	CROSS CULVERTS	ELEV.	ELEV.	INCHES	
CATEGORY STATION		LF	LF	LF	EACH	EACH	EACH	EACH	EACH	EACH	LEFT	RIGHT	STEEL	REMARKS
	STH 57		50			2		2	1	1	626.40	525.59	0.064	
0010 1510+37	STH 57		40			2		2	1	1	621.61	621.22	0.064	
0010 1519+04	STH 57			40			2	2	1	1	614.39	616.51	0.064	
0010 1536+62	STH 57			44			2	2	1	1	603.87	603.74	0.064	
0010 1543+13	STH 57			46	_		2	2	1	1	603.10	603.01	0.064	
0010 1603+91	STH 57	34			2			2	1	1	617.74	617.46	0.064	
0010 1675+98	STH 57		62			2		2	1	1	651.18	648.82	0.064	
0010 1712+46	STH 57			34			2	2	1	1	651.00	650.40	0.064	
0010 1712+50	STH 57			34			2	2	1	1	651.00	650.40	0.064	
0010 1733+85	STH 57			36			2	2	1	1	652.42	651.19	0.064	-
0010 1750+00	STH 57			42			2	2	1	1	649.04	648.52	0.064	
0010 1756+21	STH 57			52			2	2	1	1	650.97	649.69	0.064	
0010 1770+74	STH 57			40			2	2	1	1	647.55	647.08	0.064	
0010   1811+02	STH 57	<b>_</b>		62			2	2	1	1	677.53	676.77	0.064	-
0010 10+59	SUN PLAZA					1		1 1		1				
	TOTAL	34	152	430	2	7	20	29	14	15				

\*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTE: PROPOSED CULVERTS ARE TO REPLACE EXISTING CULVERTS IN THE SAME LOCATION/ELEVATION TYPICALLY

2	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-1	NCH TYPE	D
		601.0557	
CATEGORY	LOCATION	LF	REMARKS
0010	SUN PLAZA ROAD	85	
0010	SETTLEMENT ROAD/OLD STAGE ROAD	25	
0010	STA. 1759+50 TO STA. 1762+50, STH 57, LT	300	
	TOTALS	410	=

|--|

608.0418 608.0424
STORM SEWER STORM SEWER
PIPE REINFORCED PIPE REINFORCED

CONCRETE CLASS IV CONCRETE CLASS IV JOINT

			CONCRETE CLASS IV	CONCRETE CLASS IN	A DOTINI				
			18-INCH	24-INCH	TIES	INLET	DISCHARGE	SLOPE	
CATEGORY	FROM STRUCTURE	TO STRUCTURE	LF	LF	(INCIDENTAL)	ELEVATION	ELEVATION	%	REMARKS
0010	1.0	1.1	40		4	612.61	612.41	0.50	
0010	2.0	2.1	50			619.00	618.75	0.50	
0010	2.1	2.2		48	4	618.75	618.48	0.50	
0010	3.0	3.1	40		4	643.03	642.92	0.30	
1									

TOTAL 130 48

### STORM SEWER PIPE SUMMARY

					611.0612	611.0642	611.3004	611.3901	522.1018 APRON ENDWALLS	522.1024 APRON ENDWALLS	628.7010	*633.5200	650.4000				
					INLET	INLET	INLETS	INLETS	FOR CULVERT PIPE	FOR CULVERT PIPE	INLET	MARKERS	CONSTRUCTION				
					COVERS	COVERS	4-FT	MEDIAN	REINFORCED CONCRETE	REINFORCED CONCRETE	PROTECTION	CULVERT	STAKING		TOP OF		
	STRUCTURE	Ξ			TYPE C	TYPE MS	DIAMETER	1 GRATE	18-INCH	24-INCH	TYPE B	END	STORM SEWER	RIM	STRUCTURE	FLOWLINE	
CATEGORY	NO.	STATION	OFFSET	LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	ELEVATION	ELEVATION	ELEVATION	DEPTH REMARKS
0010	1.0	1435+68	19.4	STH 57, RT		1		1			1		1	614.75	614.75	612.61	2.14
0010	1.1	1435+68	20.6	STH 57, LT					1			1	1			612.41	
0010	2.0	1449+65	26	STH 57, RT		1		1			1		1	621.55	621.55	619.00	2.55
0010	2.1	1449+18	22	STH 57, RT	1		1				1		1	623.40	622.65	618.75	3.90
0010	2.2	1449+26	24.5	STH 57, LT						1		1	1			618.48	
0010	3.0	1686+03.4	23.5	STH 57, RT		1		1			1		1	644.79	644.79	643.03	1.76
0010	3.1	1686+03.4	16.5	STH 57, LT					1			1				642.91	

\*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

1

1

TOTAL

### PIPE UNDERDRAIN

209.0300.s \*612.0406 BACKFILL COURSE PIPE AGGREGATE UNDERDRAIN SIZE WRAPPED NO 1 6-INCH CATEGORY STATION TO STATION LOCATION REMARKS 0010 | 1433+00 | - | 1435+68 | STH 57, RT 270 40 270 TOTALS 40

1

3

\*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

					GUARDRAIL SUMMA	RY			
					614.0397	614.2300	614.2500	614.2610	
					GUARDRAIL			MGS	
					MOW STRIP		MGS	GUARDRAIL	
					EMULSIFIED	MGS	THRIE BEAM	TERMINAL	
					ASPHALT	GUARDRAIL 3	TRANSITION	EAT	
CATEGORY	STATION	ТО	STATION	LOCATION	SY	LF	LF	EACH	REMARKS
0010	1560+25	-	1562+15	STH 57, RT	86	100	39.5	1	
0010	1560+75	-	1562+15	STH 57, LT	64	50	39.5	1	
0010	1562+57	-	1564+47	STH 57, LT	86	100	39.5	1	
0010	1562+57	-	1563+97	STH 57, RT	64	50	39.5	1	
									_
				TOTALS	300	300	158	4	

			WATER	
		624.0100	SPV.0120.01 WATER FOR SEEDED	
		WATER	AREAS	
CATEGORY	LOCATION	MGAL	MGAL	REMARKS
0010	STH 57	10		UNDISTRIBUTED - FOR AGGREGATE COMPACTION
0010	STH 57		15	FOR SEEDED AREAS AT STRUCTURE B-15-26
	TOTALS	10	15	<b>=</b>

						FINIS	HING					
					625.0100	628.2004 EROSION MAT	628.2008 EROSION MAT	629.0210	630.0130 SEEDING	630.0140 SEEDING	630.0200	
						CLASS I	URBAN CLASS I	FERTILIZER	MIXTURE	MIXTURE	SEEDING	
					TOPSOIL	TYPE B	TYPE B	TYPE B	NO. 30	NO. 40	TEMPORARY	
CATEGORY	STATION	TO	STATION	LOCATION	SY	SY	SY	CWT	LB	LB	LB	REMARKS
0010	1428+00	-	1430+25	STH 57, RT	250	250		0.16	4.5		3.4	
0010	1433+00	-	1435+68	STH 57, RT	60	60		0.04	1.1		0.8	
0010	1448+75	-	1450+00	STH 57, LT & RT	185		185	0.12		3.3		
0010	1451+52	-	1452+70	STH 57, RT	60		60	0.04		1.1		
0010	1461+70	-	1462+90	STH 57, RT	160	160		0.10	2.9		2.2	
0010	1473+75	-	1482+00	STH 57, RT	850	850		0.54	15.3		11.5	
0010	1520+00	-	1523+00	STH 57, LT	750	750		0.47	13.5		10.2	
0010	1558+75	-	1566+05	STH 57, LT & RT	715		715		19.9		9.7	
0010	1686+00	-	1686+10	STH 57, LT & RT	5	5		0.01	0.1		0.1	
0010	1759+50	-	1762+50	STH 57, LT	250		250	0.16		4.5		
0010	1837+49	-	1838+00	STH 57, RT	30	30		0.02		0.5		
0010	UNDIST	RIE	BUTED		335	210	120	0.19	5.7	1.6	4.1	
				-								_
				TOTALS	3650	2315	1330	1.85	63	11	42	-

NOTE: TEMPORARY SEEDING RATE IS 1.5 LBS/1000 SF

	628.1905	628.1910	628.7504	628.7555	628.7570	
		MOBILIZATIONS	5			
	MOBILIZATIONS	<b>EMERGENCY</b>	TEMPORARY	CULVERT		
	EROSION	EROSION	DITCH	PIPE	ROCK	
	CONTROL	CONTROL	CHECKS	CHECKS	BAGS	
	EACH	EACH	LF	EACH	EACH	REMARKS
_			10			
					10	
			15			•
•			15			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	15			
					20	
					20	
•	2				40	
-			30			
				3.8	140	

45

20

250

15

100

2

	REMOVING SMALL SIGN SUPPORTS											
*638.3000												
CATEGORY	STATION	LOCATION	EACH	REMARKS								
0010	1519+55	STH 57, RT	1	ABANDONED SIGN POSTS NOT								
0010	1697+75	STH 57, LT	1	SHOWN IN THE PERMANENT								
0010	1739+10	STH 57, LT	1	SIGNING PLANS								
	TOTAL		3									
	*AD	DDITIONAL QU	JANTITIES	SHOWN ELSEWHERE								

**EROSION CONTROL** 

628.1520

SILT

FENCE

MAINTENANCE

20

625

100

1450

280

275

2750

3

5

628.1504

SILT

FENCE

20

625

100

1450

280

275

2750

LOCATION

STH 57, RT

STH 57, RT

STH 57, RT

STH 57, RT

STH 57, LT

STH 57, LT

STH 57

**TOTALS** 

1435+68 STH 57, LT & RT

1450+00 STH 57, LT & RT

- 1566+05 STH 57, LT & RT

- 1686+10 STH 57, LT & RT

CATEGORY STATION TO STATION

1433+00

1448+75

1451+52

1461+70

1473+75

1520+00

1558+75

1686+00

1428+00 - 1430+25

1759+50 - 1762+50

CULVERT REPLACEMENTS

UNDISTRIBUTED

1452+70

1462+90

1482+00

1523+00

0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

				637.2210	637.2230	634 0612	634 0614	634 0616	638.2602	638.3000	
				SIGNS	SIGNS	POSTS	POSTS	POSTS	REMOVING	REMOVING	
				TYPE II	TYPE II	WOOD	WOOD	WOOD	SIGNS	SMALL SIGN	
SIGN		SIGN		REFLECTIVE H			4x6x14	4x6x16	TYPE II	SUPPORTS	
NO.	LOCATION	CODE	WXH	S.F.	S.F.	EACH	EACH	EACH	EACH	EACH	REMARKS
1	S. OF CTH Q	R2-1	24" X 30"	5.00			1			EACH	35 MPH
1A	3. OF CIT Q	J4-2		J.00					1	1	33 MPN
1B	11	J4-2 J4-2	48" x 36"	12.00		-		1			COUTH CTH E7 COUTH CCENTC DVAIAN CEE DI AN CHEET
1C	11	R2-1	40 X 30						1	1	SOUTH STH 57, SOUTH SCENIC BYWAY, SEE PLAN SHEET
2	11	J13-1		7.50				1	1	1	CTH Q, SEE PLAN SHEET
3	СТН Q	W1-7	48" X 24"	7.50	8.00		1		1	1	CTH Q, SEE FLAN SHEET
4	"	R1-1	30" X 30"	5.18			1		1	1	
4A	11	J13-1	24" X 45"	7.50				1			STH 57, SEE PLAN SHEET
5	N. OF CTH Q	J13-1		7.50				1	1	1	CTH Q, SEE PLAN SHEET
6	N. OF CIT Q	M1-93	24" X 24"	4.00				1	1	1	CITI Q, SEE FEAR SHEET
6A	11	J4-3		18.00				2			NORTH STH 57, NORTH SCENIC BYWAY, LAKE MICHIGAN CIRCLE TOUR (M1-93)
6B	11	77 7	72 7 30	10.00							NORTH STIT ST, NORTH SCENIC BINAL, LAKE PITCHIOAN CIRCLE TOOK (MI-33)
6C	11										
7	п	J4-1	24" x 36"	6.00							NORTH STH 57, SEE PLAN SHEET, PART OF REMOVAL FOR SIGN #6
8	п	M1-86		4.50			1		1	1	NORTH STIT ST, SEE FEAR SHEET, FART OF REPOVAL FOR SEGRETAR
9	II .	M1-88A		1.00							PART OF REMOVAL FOR SIGN #8
10	II.	R2-1	24" x 30"	5.00			1		1	1	35 MPH
11	II .	D1-1	72" X 15"	7.50		1	1		1	1	SEE SIGN DETAIL SHEET
12	II .	J1-1	24" x 39"	6.50			1		1	1	JCT CTH Q, SEE PLAN SHEET
13	II .	R2-1	24" X 30"				1		1	1	35 MPH
14	11	R2-1	24" X 30"	5.00			1		1	1	45 MPH
15	11	W1-2R	30" x 30"		6.25		1		1	1	
16	11	W13-1									PART OF REMOVAL FOR SIGN #15
17	11	R2-1							1	1	
18	S. OF SUN PLAZA DR	R2-1							1	1	
19	SUN PLAZA DR	R2-1	24" x 30"	5.00			1		1	1	45 MPH
20	11	R1-1	30" x 30"	5.18			1		1	1	
21	N. OF SUN PLAZA DR	R2-1	24" x 30"	5.00			1		1	1	55 MPH
22	п	W11-3							1	1	ALSO REMOVE W57-51
23	11	w2-5							1	1	ALSO REMOVE W13-1
24	11		36" X 36"		9.00		1				45 MPH
25	11	W1-2R	30" X 30"		6.25			1	1	1	
26	11	W13-1	18" X 18"		2.25						MOUNT BELOW SIGN #25, PART OF REMOVAL FOR SIGN #25
27	11		48" X 24"		8.00		1		1	1	
27A			48" X 24"		8.00		1				
28	11	s3-1	36" X 36"		9.00		1		1	1	
29	11	W16-2A									PART OF REMOVAL FOR SIGN #28
30	11	W1-2L	30" X 30"		6.25			1	1	1	
31	11	W13-1	18" X 18"		2.25						MOUNT BELOW SIGN #30, PART OF REMOVAL FOR SIGN #30
	PAGE SUBTOTALS			122.36	65.25	1	17	9	25	25	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

Г				C27 2210	(27 2220	C24 0C12	C24 OC14	C24 0C1C	630, 3603	638 3000	
				637.2210	637.2230				638.2602		
				SIGNS	SIGNS	POSTS	POSTS	POSTS	REMOVING	REMOVING	
				TYPE II	TYPE II	WOOD	WOOD	WOOD	SIGNS	SMALL SIGN	
SIGN		SIGN			REFLECTIVE F		4x6x14	4x6x16	TYPE II	SUPPORTS	
NO.	LOCATION	CODE		S.F.	S.F.	EACH	EACH	EACH	EACH	EACH	REMARKS
32	S. OF AHRENS RD	_	48" X 36"		6.00		1		1	1	
33			30" X 36"	7.50			1		1	1	SEE PLAN SHEET
34	AHRENS RD	R1-1		5.18			1				
35	N. OF AHRENS RD	_	12" X 36"		3.00	1			1	1	
36	п		12" X 36"		3.00	1			1	1	
37	n .		12" X 36"		3.00	1			1	1	
38	п		12" x 36"		3.00	1			1	1	
39	S. OF MEADOW RD	W14-3	48" x 36"		6.00		1		1	1	
40	II .	J4-2							1	1	
41	MEADOW RD	R1-1	30" x 30"	5.18			1		1	1	
42	п	R1-1	30" x 30"	5.18			1		1	1	
43	N. OF MEADOW RD	J4-2							1	1	
44	п	w11-3							1	1	ALSO REMOVE W57-51
45	п	W2-1	30" X 30"		6.25		1	1	1	1	
46	II .	w14-3	48" X 36"		6.00		1		1	1	
47	GROVE RD	R1-1	30" X 30"	5.18			1	-	1	1	
48	п	R1-1	30" X 30"	5.18			1		1	1	
49	N. OF GROVE RD	I55-56	30" X 36"	7.50			1		1	1	
50	п	W2-1	30" x 30"		6.25		1		1	1	
51	OLD LIME KILN RD	R1-1	30" x 30"	5.18			1		1	1	
52	п	R1-1		5.18			1		1	1	
53	PIONEER RD	R1-1	30" x 30"	5.18			1		1	1	
54	п	R1-1	30" x 30"	5.18			1		1	1	
55	S. OF GERMAN RD	W2-1							1	1	
56	GERMAN RD	R1-1	30" x 30"	5.18			1		1	1	
57	п	R1-1	30" x 30"	5.18			1		1	1	
58A	п	w3-5			9.00		1				45 MPH
58	S. OF CTH Q	J1-1	24" x 39"	6.50			1		1	1	CTH Q, SEE PLAN SHEET
59	II .	W2-1							1	1	Y
60	п		48" x 36"		6.00		1		1	1	
61	п	R2-1		5.00			1				55 MPH, PART OF REMOVAL FOR SIGN #60
	PAGE SUBTOTALS	•		83.48	57.50	4	22	0	28	28	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

		1		C27 2210	627 2220	C24 0C12	C24 0C14	C24 0C1C	(20, 2002	638 3000	
				637.2210	637.2230	634.0612				638.3000	
				SIGNS	SIGNS	POSTS	POSTS	POSTS	REMOVING	REMOVING	
				TYPE II	TYPE II	WOOD	WOOD	WOOD	SIGNS	SMALL SIGN	
SIGN		SIGN			REFLECTIVE F	4x6x12	4x6x14	4x6x16	TYPE II	SUPPORTS	
NO.	LOCATION	CODE	WXH	S.F.	S.F.	EACH	EACH	EACH	EACH	EACH	REMARKS
62	<u>"</u>		24" X 30"	5.00			1		1	1	45 MPH
63	S. OF CTH Q	155-56		7.50			1		1	1	SEE PLAN SHEET
64	" "	D1-1	66" X 15"	6.88			2		1	2	SEE SIGN DETAIL
65		J4-2	48" X 36"	12.00			1		1	1	SEE PLAN SHEET
66	II .		24" x 45"	7.50				1	1	1	CTH Q, SEE PLAN SHEET
67	CTH Q		24" x 45"	7.50				1			PART OF REMOVAL FOR SIGN 68
68	II .	J13-1							1	1	
69	II .		30" X 30"	5.18			1		1	1	
70	II .	R1-1	30" X 30"	5.18			1		1	1	
71	п	R1-1	30" X 30"	5.18			1		1	1	
71A	II .	J13-2	48" X 45"	15.00				1			SEE PLAN SHEET
72	N. OF CTH Q	J13-1	24" X 45"	7.50				1	1	1	CTH Q, SEE PLAN SHEET
73	II .	J4-3	72" x 36"	6.00			2				SEE PLAN SHEET
74	II .	R2-1	24" X 30"	5.00			1		1	1	45 MPH
75	II .	W14-3	48" x 36"		6.00						MOUNT ON BACK OF SIGN #14, PART OF REMOVAL FOR SIGN #74
76	"	D1-1	66" x 15"	6.88			2		1	2	SEE SIGN DETAIL
77	II .	W14-3	48" x 36"		6.00		1		1	1	
78	п	R2-1									PART OF REMOVAL FOR SIGN #77
79	II .	J1-1	24" x 39"	6.50			1		1	1	CTH Q, SEE PLAN SHEET
80	п		30" x 36"	7.50			1		1	1	SEE PLAN SHEET
81	S. OF OLD STAGE RD/SETTLEMENT RD		24" x 30"	5.00			1		1	1	45 MPH
82	п	R2-1	24" x 30"	5.00			1		1	1	55 MPH
83	П	w2-1							1	1	
84	II	W14-3	48" x 36"		6.00			1			PART OF REMOVAL FOR SIGN #83
85	II	W14-3	48" x 36"		6.00		1		1	1	
86	п	w3-5	36" x 36"		9.00		1		1	1	45 MPH
87	SETTLEMENT RD	R1-1	30" x 30"	5.18			1		1	1	
88	OLD STAGE RD	R1-1	30" X 30"	5.18			1		1	1	
89	N. OF OLD STAGE RD/SETTLEMENT RD	w2-1	30" x 30"		6.25		1		1	1	
90	S. OF COUNTRY LN	W1-2R	30" x 30"		6.25			1			PART OF REMOVAL FOR SIGN #90A
90A	п	W13-1	18" x 18"		2.25				1	1	MOUNT BELOW SIGN #90
91	п	W14-3	48" x 36"		6.00		1		1	1	
92	п		48" x 36"		6.00		1		1	1	
	PAGE SUBTOTALS	•		136.65	59.75	0	25	6	26	28	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

				627 2210	627 2220	624 0612	624 0614	624 0616	638.2602	628 2000	
				637.2210 SIGNS	637.2230	POSTS	POSTS		REMOVING		
					SIGNS			POSTS			
CTCN		67611		TYPE II	TYPE II	WOOD	WOOD	WOOD	SIGNS	SMALL SIGN	
SIGN		SIGN			REFLECTIVE F		4x6x14	4x6x16	TYPE II		
NO.	LOCATION	CODE	WXH	S.F.	S.F.	EACH	EACH	EACH	EACH	EACH	REMARKS
93	S. OF COUNTRY LN	W1-6	48" X 24"		8.00		1		1	1	
94	COUNTRY LN	R1-1	30" X 30"				1		1	1	
94A	N. OF COUNTRY LN	W1-6	48" X 24"		8.00		1				
95	FLINT RIDGE RD	R1-1	30" X 30"	5.18			1		1	1	
96	N. OF FLINT RIDGE RD	12-3	66" X 24"				2		1	1	SEE SIGN DETAIL
97	N. OF FLINT RIDGE RD	W1-2L	30" X 30"		6.25		1				PART OF REMOVAL FOR SIGN #98
98	п	W13-1	18" X 18"		2.25				1	1	MOUNT BELOW SIGN #97
99	S. OF NORTHWOODS DR	w3-5	36" X 36"		9.00		1		1	1	45 MPH
100	NORTHWOODS DR		30" X 30"	5.18			1		1	1	
101	N. OF NORTHWOODS DR	W1-2L	30" x 30"		6.25		1		1	1	
102	11	R2-1	24" X 30"	5.00			1		1	1	55 MPH
103	II .	R2-1	24" X 30"	5.00			1		1	1	45 MPH
104	ORCHARD DR	W1-7	48" X 24"		8.00		1		1	1	
105	II	M1-6									PART OF REMOVAL FOR SIGN #104
106	п	R1-1	30" x 30"	5.18			1		1	1	
107	п	D7-57	54" x 36"	13.50			2		1	1	1/2 MILE
107A	п	R2-1							1	1	
108	N. OF ORCHARD DR	R2-1	24" x 30"	5.00			1				35 MPH
109	S. OF COUNTRY WALK DR	w1-6	48" X 24"		8.00		1		1	1	MOUNT ON BACK OF SIGN #108
110	11	R2-1	24" x 30"	5.00			1	-	1	1	45 MPH
111	п	R2-1							1	1	
112	п	R2-1	24" x 30"	5.00			1		1	1	35 MPH
113	п	W1-4L	30" x 30"		6.25		1		1	1	
114	COUNTRY WALK DR	R1-1	30" x 30"	5.18			1		1	1	
115	II .	W1-7	48" X 24"		8.00		1		1	1	
115A	II .	R2-1	24" x 30"	5.00			1				
116	N. OF COUNTRY WALK DR		30" x 36"	7.50			1		1	1	SEE PLAN SHEET
117	П		48" x 39"				1		1	1	STH 42, STH 57, SEE PLAN SHEET
	PAGE SUBTOTALS			100.90	70.00	0	26	0	23	23	

443.39 252.50 5 90 15 102

104

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PROJECT TOTALS

	IRA	AFFIC COM	NTROL SUM	IMARY						
			643.	0300	*643. TRAFFIC		*643. TRAFFIC		643.	0900
			TRAFFIC	CONTROL	BARRI	CADES	WARNING	LIGHTS	TRAFFIC	CONTROL
		APPROX.	DRU	IMS	TYPE	III	TYP	ΕA	SIG	SNS
		SERVICE	NO IN		NO IN		NO IN		NO IN	
CAT	LOCATION	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS
0010	SUN PLAZA FOR CURB & GUTTER REPLACEMENT	10	10	100						
0010	NEAR SETTLEMENT ROAD FOR CURB & GUTTER REPLACEMENT	10	15	150						
0010	STH 57 DETOUR #1	38			26	988	42	1596	16	608
0010	STH 57 DETOUR #2	5			10	50	20	100	10	50
0010	STH 57 ADVANCE WARNING	57							10	570
0010	SIDEROAD ADVANCED WARNING	57							22	1254
0010	UNDISTRIBUTED	10	10	100						
	TOTALS			350		1,038		1,696	·	2,482

### TRAFFIC CONTROL DETOUR SIGN SUMMARY

				NUMBER	APPROX.	643.3000 DETOUR	643.0420 BARRICADES	643.0705 WARNING	643.1050 SIGNS	NO. OF	643.0920 COVERING	
SIGN		SIGN	SIZE	NUMBER IN	SERVICE PERIOD 38	SIGNS	TYPE III	LIGHTS TYPE A	PORTABLE CHANGEABLE MESSAGE	CYCLES	TYPE II SIGNS	
NO.	LOCATION	CODE	WXH	SERVICE	DAYS	DAYS	DAYS	DAYS	DAYS		EACH	REMARKS
	STAGE 1											
1	1000' S OF J1-1 (JCT Q)	WO 20-2A	48"x48"	1	38	38						
2	LT OF J1-1 (JCT Q)	MO 4-8	24"x12"	1	38	38						
	II.	M 3-1	24"x12"	1	38	38						
	п	м 1-6	24"x24"	1	38	38						57
	п	MO 5-1R	21"x21"	1	38	38						
3	LT OF J13-1 (Q-RT)	MO 4-8	24"x12"	1	38	38						
	п	M 3-1	24"x12"	1	38	38						
	п	м 1-6	24"x24"	1	38	38						57
	II	MO 6-1	21"x21"	1	38	38						RIGHT
4A	NE QUAD OF STH 57 & CTH Q INTERSECTION	R 11-3B	60"x30"	1	38	38	38	76				2 MILES AHEAD
4B	BELOW SIGN # 4A	M 4-9R	30"x24"	1	38	38						
5	200' E OF STH 57 INTERSECTION ON CTH Q	MO 4-8	24"x12"	1	38	38						
	п	M 3-1	24"x12"	1	38	38						
	п	м 1-6	24"x24"	1	38	38						57
6	MODIFY J1-2 (JCT 57; END Q)	MO 4-8A	24"x18"	1	38	38						
	ıı	м 1-6	24"x24"	1	38	38						57
7	10,000' N OF SIGN # 5	MO 4-8	24"x12"	1	38	38						
	п	M 3-1	24"x12"	1	38	38						
	п	M 1-6	24"x24"	1	38	38						57
8	ACROSS FROM SIGN # 7 FOR SB	MO 4-8	24"x12"	1	38	38						
	"	M 3-3	24"x12"	1	38	38						
		M 1-6	24"x24"	1	38	38						57
9	200' S OF W CANA ISLAND RD INTERSECTION ON CTH Q	MO 4-8	24"x12"	1 1	38	38						
	"	M 3-3	24"x12"	1	38	38						
		M 1-6	24"x24"	1	38	38						57
10	200' N OF W CANA ISLAND RD INTERSECTION ON CTH Q	MO 4-8	24"x12"	1	38	38						
		M 3-1	24"x12"	1	38	38						
11		M 1-6	24"x24"	1	38	38						57
11	200' S OF PINE DR INTERSECTION ON CTH Q	MO 4-8 M 3-3	24"x12" 24"x12"	1	38 38	38 38						
	п	M 3-3 M 1-6	24 X12 24"x24"	1	38							57
12	200' N OF PINE DR INTERSECTION ON CTH Q	MO 4-8	24 x24 24"x12"	1	38	38 38						31
12	200 N OF PINE DR INTERSECTION ON CIT Q	MU 4-8 M 3-1	24"x12"	1	38	38						
	п	M 1-6	24 X12 24"x24"	1	38	38						57
13	200' S OF WINDING RD INTERSECTION ON CTH Q	MO 4-8	24"x12"	1	38	38						
1	II NO 2 OI MINDING UD INTENSECTION ON CLU C	M 3-3	24"x12"	1	38	38						-
	п	M 1-6	24"x24"	1	38	38						57
14	200' N OF WINDING RD INTERSECTION ON CTH Q	MO 4-8	24"x12"	1	38	38						
	II	M 3-1	24"x12"	1	38	38						
	II.	M 1-6	24"x24"	1	38	38						57
15	200' S OF WOODCREST RD INTERSECTION ON CTH Q	MO 4-8	24"x12"	1	38	38						
-	II	M 3-3	24"x12"	1	38	38						
	п	M 1-6	24"x24"	1	38	38						57
HEET PRO	PAGE SUBTOTALS		= · <b>/\=</b> ·	43		1,634	38	76	0		0	<del></del>

PLAN SHEET PRODUCED BY WisDOT - NE REGION

HWY: STH 57 COUNTY: DOOR MISCELLANEOUS QUANTITIES SHEET PROJECT NUMBER: 4150-17-71

### TRAFFIC CONTROL DETOUR SIGN SUMMARY

						643.3000	643.0420	643.0705	643.1050		643.0920	
					APPROX.	DETOUR	BARRICADES	WARNING	SIGNS	NO. OF	COVERING	
				NUMBER	SERVICE	SIGNS	TYPE III	LIGHTS	PORTABLE	CYCLES	TYPE II	
SIGN		SIGN	SIZE	IN	PERIOD			TYPE A	CHANGEABLE		SIGNS	
					38				MESSAGE			
NO.	LOCATION	CODE	WXH	SERVICE	DAYS	DAYS	DAYS	DAYS	DAYS		EACH	REMARKS
16	200' N OF WOODCREST RD INTERSECTION ON CTH Q	MO 4-8	24"x12"	1	38	38						
	II .	M 3-1	24"x12"	1	38	38						
	II .	м 1-6	24"x24"	1	38	38						57
17	MODIFY J1-1 (JCT 57)	MO 4-8A	24"x18"	1	38	38						
	II	м 1-6	EXISTING									
18	200' E OF STH 57 INTERSECTION ON CTH Q	MO 4-8	24"x12"	1	38	38						
	п	м 3-3	24"x12"	1	38	38						
	II	м 1-6	24"x24"	1	38	38						57
19A	SW QUAD OF STH 57 & CTH Q INTERSECTION	R 11-3B	60"x30"	1	38	38	38	76				2 1/2 MILES AHEAD
19в	BELOW SIGN # 19A	M 4-9L	30"x24"	1	38	38						
20	LT OF J13-1 (Q -DOUBLE ARROW)	MO 4-8	24"x12"	1	38	38						
	II	м 3-3	24"x12"	1	38	38						
	II	м 1-6	24"x24"	1	38	38						57
	II	MO 6-1	21"x21"	1	38	38						LEFT
21	LT OF J1-1 (JCT Q)	MO 4-8	24"x12"	1	38	38						
	II	м 3-3	24"x12"	1	38	38						
	II	м 1-6	24"x24"	1	38	38						57
	II	MO 5-1L	21"x21"	1	38	38						
22	200' N OF R2-1 (SPEED LIMIT 45) SIGN	WO 20-2A	48"x48"	1	38	38						
23	NB TRAFFIC DIRECTION	PCMS		1					7			
24	SB TRAFFIC DIRECTION	PCMS		1		<u> </u>			7			
	PAGE SUBTOTALS			20		684	38	76	14		0	

63 2,318 76 152 14 STAGE 1 SUBTOTALS

PLAN SHEET PRODUCED BY WisDOT - NE REGION

MISCELLANEOUS QUANTITIES SHEET PROJECT NUMBER: 4150-17-71 HWY: STH 57 COUNTY: DOOR

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						643.3000	643.0420	643.0705	643.1050		643.0920	
				NUMBER	APPROX.	DETOUR	BARRICADES	WARNING LIGHTS	SIGNS PORTABLE	NO. OF	COVERING	
SIGN		SIGN	SIZE	NUMBER IN	SERVICE PERIOD	SIGNS	TYPE III	TYPE A	CHANGEABLE	CYCLES	TYPE II SIGNS	
SIGN		SIGN	3126	TIN	5			TIPE A	MESSAGE		SIGNS	
NO.	LOCATION	CODE	WXH	SERVICE	DAYS	DAYS	DAYS	DAYS	DAYS		EACH	REMARKS
	STAGE 2				5							
25	750' S OF J1-1 (JCT Q-NORTH INTERSECTION)	WO 20-2A	48"x48"	1	5	5						
26	LT OF J1-1 (JCT Q-NORTH INTERSECTION)	MO 4-8	24"x12"	1	5	5						
	11	м 3-1	24"x12"	1	5	5						
	11	м 1-6	24"x24"	1	5	5						57
	п	MO 5-1L	21"x21"	1	5	5						
27	LT OF J13-1 (Q-LT & RT ARROW)	MO 4-8	24"x12"	1	5	5						
	II .	м 3-1	24"x12"	1	5	5						
	II .	м 1-6	24"x24"	1	5	5						57
	II.	MO 6-1	21"x21"	1	5	5						LEFT
28	NE QUAD OF STH 57 & CTH Q INTERSECTION	R 11-4	60"x30"	1	5	5	5	10				
29	BELOW SIGN # 28	M 4-9L	30"x24"	1	5	5					<b></b>	
30	200' W OF STH 57 INTERSECTION ON CTH Q	MO 4-8	24"x12"	1	5	5					<b></b>	
	"	M 3-1	24"x12"	1	5	5					<del>                                     </del>	
	" "	M 1-6	24"x24"	1	5	5						57
24		MO 6-1	21"x21"	1	5	5						AHEAD
31	MODIFY J1-1 (JCT 57)	MO 4-8A	24"x18"	1	5	5						
22	7001 - 07 - 07 - 07 - 07 - 07 - 07 - 07	M 1-6	24"x24"	1	5	5						57
32	700' E OF TOWNLINE RD INTERSECTION ON CTH Q (WB)	MO 4-8	24"x12"	1	5	5						
		M 3-1	24"x12"	1	5	5						
	"	M 1-6	24"x24" 21"x21"	1	5 5	5 						57
33		MO 5-1R MO 4-8	21 X21 24"x12"	1 1	5	5						
33	200' E OF TOWNLINE RD INTERSECTION ON CTH Q (EB)	M 3-3	24 X12 24"x12"	1	5	<u>5</u>						
	II.	м 3-3 м 1-6	24"x24"	1	5	5						57
	п	MO 6-1	21"x21"	1	5	5						AHEAD
34	NE QUAD OF TOWNLINE RD & CTY Q INTERSECTION (NEAR RT)	MO 4-8	24"x12"	1	5	5						AIILAD
J-T	II QUAD OF TOWNETHE RD & CIT Q INTERSECTION (NEAR RT)	M 3-1	24"x12"	1	5	5						
	11	M 1-6	24"x24"	1	5	5						57
	11	MO 6-1	21"x21"	1	5	5						RIGHT
35	SW QUAD OF TOWNLINE RD & CTY Q INTERSECTION (FAR LT)	MO 4-8	24"x12"	1	5	5						KZGIII
	"	M 3-1	24"x12"	1	5	5						
	n	м 1-6	24"x24"	1	5	5						57
	п	MO 6-1	21"x21"	1	5	5						RIGHT
36	SE QUAD OF TOWNLINE RD & CTY Q INTERSECTION (FAR LT)	MO 4-8	24"x12"	1	5	5						
	11	м 3-3	24"x12"	1	5	5						
	11	м 1-6	24"x24"	1	5	5						57
	11	MO 6-1	21"x21"	1	5	5						LEFT
37	LT OF STOP SIGN @ TOWNLINE RD & CTY Q INTERSECTION (NEAR RT)	мо 4-8	24"x12"	1	5	5						
	п	м 3-3	24"x12"	1	5	5						
	п	м 1-6	24"x24"	1	5	5						57
	п	MO 6-1	21"x21"	1	5	5						LEFT
38	500' N OF SIGN # 37 ON TOWNLINE RD (WB)	MO 4-8	24"x12"	1	5	5						
	11	м 3-3	24"x12"	1	5	5						
	п	м 1-6	24"x24"	1	5	5						57
	п	MO 5-1L	21"x21"	1	5	5						

PLAN SHEET PRODUCED

SHEET

BY WisDOT - NE REGION

HWY: STH 57

COUNTY: DOOR

MISCELLANEOUS QUANTITIES

### TRAFFIC CONTROL DETOUR SIGN SUMMARY

						643.3000	643.0420	643.0705	643.1050		643.0920	
					APPROX.	DETOUR	BARRICADES	WARNING	SIGNS	NO. OF	COVERING	
				NUMBER	SERVICE	SIGNS	TYPE III	LIGHTS	PORTABLE	CYCLES	TYPE II	
SIGN		SIGN	SIZE	IN	PERIOD			TYPE A	CHANGEABLE		SIGNS	
					5				MESSAGE			
NO.	LOCATION	CODE	WXH	SERVICE	DAYS	DAYS	DAYS	DAYS	DAYS		EACH	REMARKS
39	200' S OF SETTLEMENT RD INTERSECTION ON TOWNLINE RD (SB)	MO 4-8	24"x12"	1	5	5						
	"	м 3-3	24"x12"	1	5	5						
	"	м 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						AHEAD
40	200' N OF SETTLEMENT RD INTERSECTION ON TOWNLINE RD (NB)	MO 4-8	24"x12"	1	5	5						
	"	м 3-1	24"x12"	1	5	5						
	"	м 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						AHEAD
41	500' S OF HWY 42 INTERSECTION ON TOWNLINE RD (NB)	MO 4-8	24"x12"	1	5	5						
	"	м 3-1	24"x12"	1	5	5						
	"	м 1-6	24"x24"	1	5	5						57
	"	MO 5-1R	21"x21"	1	5	5						
42	RT OF STOP SIGN @ HWY 42 INTERSECTION ON TOWNLINE RD (NB)	MO 4-8	24"x12"	1	5	5						
	"	м 3-1	24"x12"	1	5	5						
	"	м 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						RIGHT
43	200' S OF HWY 42 INTERSECTION ON TOWNLINE RD (SB)	MO 4-8	24"x12"	1	5	5						
	"	м 3-3	24"x12"	1	5	5						
	"	м 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						AHEAD
44	SE QUAD OF TOWNLINE RD & HWY 42 INTERSECTION (FAR LT)	MO 4-8	24"x12"	1	5	5						
	"	м 3-3	24"x12"	1	5	5						
	"	м 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						LEFT
45	NE QUAD OF TOWNLINE RD & HWY 42 INTERSECTION (NEAR RT)	MO 4-8	24"x12"	1	5	5						
	"	м 3-3	24"x12"	1	5	5						
	"	м 1-6	24"x24"	1	5	5						57
	п	MO 6-1	21"x21"	1	5	5						LEFT
46	200' E OF TOWNLINE RD INTERSECTION ON STH 42 (NB)	MO 4-8	24"x12"	1	5	5						
	"	м 3-1	24"x12"	1	5	5						
	"	м 1-6	24"x24"	1	5	5						57
		MO 6-1	21"x21"	1	5	5						AHEAD
47	500' N OF SIGN # 44 ON HWY 42 (SB)	MO 4-8	24"x12"	1	5	5						
	"	M 3-3	24"x12"	1	5	5					<del>                                     </del>	
	"	M 1-6	24"x24"	1	5	5						57
	II .	MO 5-1L	21"x21"	1	5	5						
48	BACKSIDE OF SIGN # 45 (NB-NEAR RT)	MO 4-8	24"x12"	1	5	5						
	"	м 3-3	24"x12"	1	5	5						
	"	м 1-6	24"x24"	1	5	5						57
	II .	MO 6-1	21"x21"	1	5	5						RIGHT

PLAN SHEET PRODUCED BY WisDOT - NE REGION

### TRAFFIC CONTROL DETOUR SIGN SUMMARY

						643.3000	643.0420	643.0705	643.1050		643.0920	
					APPROX.	DETOUR	BARRICADES	WARNING	SIGNS	NO. OF	COVERING	
				NUMBER	SERVICE	SIGNS	TYPE III	LIGHTS	PORTABLE	CYCLES	TYPE II	
SIGN		SIGN	SIZE	IN	PERIOD			TYPE A	CHANGEABLE		SIGNS	
					5				MESSAGE			
NO.	LOCATION	CODE	WXH	SERVICE	DAYS	DAYS	DAYS	DAYS	DAYS		EACH	REMARKS
49	BACKSIDE OF SIGN # 44 (NB-FAR LT)	MO 4-8	24"x12"	1	5	5						
	п	м 3-3	24"x12"	1	5	5						
	п	м 1-6	24"x24"	1	5	5						57
	п	MO 6-1	21"x21"	1	5	5						RIGHT
50	500' S OF SIGN # 46 ON HWY 42 (NB)	MO 4-8	24"x12"	1	5	5						
	п	м 3-3	24"x12"	1	5	5						
	II	м 1-6	24"x24"	1	5	5						57
	II	MO 5-1R	21"x21"	1	5	5						
51	500' S OF SIGN # 49 ON HWY 42 (NB)	м 1-6	24"x24"	1	5	5						57
	II .	WO 20-2A	48"x48"	1	5	5						
52	MODIFY J1-1 (JCT 57) ON HWTY 42 (NB)	MO 4-8A	24"x18"	1	5	5						
	II .	м 1-6	EXISTING									
53	D1-3 (AH-ELLISON BAY/GILLS ROCK; BAILEYS HARBOR-RT)									1	1	BAILEYS HARBOR - RT
54	J3-1 (S-57-RT)									1	1	SOUTH 57 RT ARROW
55	SE QUAD OF STH 42 & STH 57 INTERSECTION	R 11-4	60"x30"	1	5	5	5	10				
56	BELOW SIGN # 55	м 4-9R	30"x24"	1	5	5						
57	MODIFY J3-1 (S-57-LT)	MO 4-8	24"x12"	1	5	5						
	II	м 3-3	EXISTING									
	II	м 1-6	EXISTING									57
	п	MO 6-1	21"x21"	1	5	5						AHEAD
58	D1-3 (AH-EPHRAIM/FISH CREEK; LT-BAILEYS HARBOR)									1	1	LT-BAILEYS HARBOR
59	MODIFY J2-2 (S-57-AH LT; S-42-AH)	MO 4-8	24"x12"	1	5	5						
	п	м 3-3	EXISTING									
	п	м 1-6	EXISTING									57
	п	MO 6-1	21"x21"	1	5	5						AHEAD
60	300' E OF SIGN # 59 ON STH 42 (SB)	м 1-6	24"x24"	1	5	5						57
	11	W 20-2A	48"x48"	1	5	5						
61	J4-1 (S-57)									1	1	SOUTH 57
62	LOCATION FIELD DETERMINED -SB TRAFFIC DIRECTION								7			
63	LOCATION FIELD DETERMINED -NB TRAFFIC DIRECTION		·						7			
	PAGE SUBTOTALS			19		95	5	10	14		4	
	STAGE 2 SUBTOTALS			104		520	10	20	14		4	
	PROJECT TOTALS			167		2,838	86	172	28		4	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PAVEMENT MARKING SUMMARY												
					PAVEMENT GROOVI REFLE EPOXY	304.S MARKING ED WET CCTIVE 4-INCH	646.2308.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH	647.0566  PAVEMENT  MARKING  STOP LINE  EPOXY 18-INCH	649.0402 TEMPORARY PAVEMENT MARKING PAINT			
CATECORY	CTATTON		CTATTON	LOCATION	(YELLOW)	(WHITE)	(WHITE)	. =	4-INCH	DEMARKS.		
CATEGORY	STATION	TO		LOCATION	LF	LF	LF	LF	LF	REMARKS		
0010	1423+24	$\vdash$	1497+30	STH 57	14,815	14,710			44,445			
0010 0010	1497+30 1505+00		1505+00 1594+30	STH 57 STH 57	960 2,230	1,540 17,740			2,490 2,145			
0010	1594+30	$\vdash$	1594+30	STH 57	555	730			1,440			
0010	1598+74		1602+30	STH 57	90	715			90			
0010	1602+30		1608+38	STH 57	760	1,215			1,965			
0010	1608+38	_	1718+75	STH 57	2,760	21,285			2,640			
0010	1718+75		1723+62	STH 57	610	975			1,575			
0010	1723+62		1726+77	STH 57	80	630	150		75			
0010	1726+77		1732+73	STH 57	745	945	190		1,935			
0010	1732+73	_	1736+11	STH 57	85	675			90			
0010	1736+11	_	1742+01	STH 57	740	1,180			1,920			
0010	1742+01	_	1744+80	STH 57	70	560		***************************************	75			
0010	1744+80	-	1750+43	STH 57	705	1,125			1,830			
0010	1750+43	-	1753+80	STH 57	85	675			90			
0010	1753+80	_	1761+80	STH 57	1,000	1,300	200		2,595			
0010	1761+80	-	1762+68	STH 57	25	230			30			
0010	1762+68	_	1779+83	STH 57	2,145	3,310			5,550			
0010	1779+83	-	1843+01	STH 57	12,640	12,245			37,920			
	(	TH	Q		270			20				
			TOTALS	,	123	,155	540	20	54,450	=		

			CONSTRUC	TION STAKING S	JMMARY						
					650.8000	650.9920					
				R	ESURFACIN	SLOPE					
					REFERENCE	STAKES					
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	REMARKS				
0010	1428+00	_	1430+25	STH 57, RT		225					
0010	1461+70	_	1462+90	STH 57, RT		120					
0010	1473+75	-	1482+00	STH 57, RT		825					
0010	1520+00	-	1523+00	STH 57, LT		300					
0010	1558+75	_	1566+05	STH 57, LT & RT		1,464					
0010	1759+50	_	1762+50	STH 57, LT		300					
0010	PR	OJE	CT .		41,977						
			<b>TOTALS</b>		41,977	3,234	_				
*NOT	*NOTE - ADDITIONAL STAKING ITEMS ARE SHOWN ELSEWHERE IN THE PLAN										

3

SAWING SUMMARY												
			690.0150 ASPHALT	690.0250 CONCRETE								
CATEGORY	STATION	LOCATION	LF	LF	REMARKS							
0010	1423+24	STH 57	30									
0010	1451+60 - 1452+65	STH 57, RT	90	6								
0010	1759+42 - 1762+58	STH 57, LT	310									
0010	1837+49 - 1838+00	STH 57, RT	50									
0010	1843+01	STH 57	80									
0010	SIDEROADS		500	***************************************								
0010	STORM/CULVERT REPLACEMENTS	STH 57	935	6								
0010	DRIVEWAYS		1345									
***************************************					_							
		TOTAL	3340	12	_							

# Document Number VACATION ORDER TRANSPORTATION PROJECT PLAT PARCEL Wisconsin Department of Transportation DT2222 11/2013 s.84.095(3)(b) Wis. Stats.

This Vacation Order applies to Transportation Project Plat 4150-17-21-4.01, recorded on Feb 17, 2016 as Document Number 793802 in the Office of the Register of Deeds for Door County.

Whereas, parcel 2 of the above-described Transportation Project Plat has been determined to be unnecessary for transportation improvement project purposes, said parcel is vacated and rescinded.

DOC#:
796141

Recorded JUNE 3, 2016 AT 02:41PM

CAREY PETERSILKA REGISTER OF DEEDS DOOR COUNTY, WI

Fee Amount Paid: \$30.00

Tract Indexed

This space is reserved for recording data

Return to

Wisconsin Department of Transportation
944 Vanderperren Way

Green Bay, WI 54304

Attn: Real Estate

Parcel Identification Number/Tax Key Number 002 0308302834B

This Vacation Order has been approved by the Wisconsin Department of Transportation.

	Post Rose	(See)		(Title)	Right of Way Plat Coordinator	(Print Name)	Carolyn Sampson	X Carolin Dandson	η
(Date Commission Expires)	Ruth A Tahnson (Print or Type Name, Notary Public, State of Wisconsin)	X (Signature, Notary Public, State of Wisconsin)	On the above date, this instrument was acknowledged before me by the named person(s).	Brever County )	) ss.	State of Wisconsin		S - 37 - 1 し (Date — m/d/yyyy)	

SCHEDULE OF LANDS & INTERESTS REQUIRED PARCE! NUMBER 1 PREMIER CONCRETE, INC. 2 MCCURDY-MILLER REVOCABLE TRUST DATED 2-28-2005 TLE OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT. T 31 N R 27 E R 28 E T 30 N BLUFF R LOCATION Bailey's Harbor LOCATION SKETCH SCALE, MILES

### NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOOR COUNTY, NAD 83 (1991) IN U.S. SURVEY FEET, VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 57 ESTABLISHED FROM PREVIOUS PROJECT 4150-05-22 AND

EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM CENTERLINE OF EXISTING PAVEMENTS AND PREVIOUS PROJECT 4150-05-22. EXISTING HIGHWAY ACCESS CONTROL SHOWN HEREIN IS BASED ON THE FOLLOWING POINT OF REFERENCE;

EXISTING HIGHWAY ACCESS CONTROL FOR STH 57 ESTABLISHED FROM PREVIOUS PROJECT 4150-05-22. A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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

ENSTRUCE

ENSTRUMENT IN THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

### R/W COORDINATES PT NO 100 249426.743 558164.139 101 249427.050 558200.460 102 249427.355 558236.704 103 249312.756 558295.036 104 248601.704 558687.341 105 248555.418 558762.945 106 248482.203 558800.955 107 248433.080 558768.186 108 248301.739 558818.043 109 248123.145 558873.084 110 248122.571 558838 - 930 111 248121.990 558804.377 112 248281.372 558755.256 113 248544.500 558643.523 114 249281.045 558237.153

THAT PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 AND THAT PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4, SECTION 17, TOWNSHIP 30 NORTH, RANGE 28 EAST, TOWN OF BAILEYS HARBOR, DOOR COUNTY, WISCONSIN.

TRANSPORTATION PROJECT PLAT NO: 4150-17-21 - 4.01

RELOCATION ORDER STH 57- BAILEYS HARBOR - SISTER BAY (CTH Q - STH 42) DOOR COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DIPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PLRSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN

STH 57 CURVE DATA

PI STA. 1464+82.36

Y 249607.068

THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

17-3 **V-NW** 

SIXTEENTH LINE

EXISTING R/W MONUMENTS
STATION OFFSET MO MON. TYPE PT NO 1000 1453+13.81 32.93' 1" IRON PIPE 1452+40.52 78.39 IRON PIPE 1002 1451+62.75 82.37' 5/8" REBAR 5/8" REBAR 1003 1451+32.36 34.93'

DOC#: 793802 Recorded Feb 17, 2016 AT 10:29 AM

Fee Amount Paid: \$ 25.00

eRecorded By: WISDOT - NE REGION - GREEN BAY

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 4150-17-21-4.01 AMENDMENT NO:

### X 558091.673 △ 17°51'20" L 818.05 100 1462+87.03 412.37' R 2625.00' PC STA. 1460+69.99 BLDG □- N89°30'59"E PT STA. 1468+88.04 N89°30'59"E 1462+57,37 102 1462+52.30 44.00' ─ T.L.E. FOR $\leftarrow$

Y=249417.095 X=557020.866

STH 57 CURVE DATA PI STA. 1446+83.38 Y 247995.720 X 558880.399 △ 08°17'17" L 335.02' T 167.80 R 2316.00' 1000 PC STA. 1445+15.57 PT STA. 1448+50.59 C.S.M. 613 V. 3 / PG. 228 DOC. 564795 1451+62.73 BAILEYS | HARBOR C.S.M. 613 108 1449+92.97 V.3 / PG.228 STH 57 CURVE DATA DOC. 564795 EXISTING RIN

-ACCESS EASEMENT AGREEMENT PER V. 751 PG. 223 DOC. 611875 WIDTH VARIES

**AYRES ASSOCIATES** 

JAMES R CAPPEART PROFESSIONAL LAND SURVEYOR HERERY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84,095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT THAVE SURVEYED AND MAPPES TRANSPORTATION PROJECT PLAT 4150-17-21 - 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE LAND SURVEYED.

SIGNATURE

DATE 11-05-2015

James R Cappeart S-3044 Green Bay Wis.

REGISTRATION NUMBER \_\_\_\_\_

4" COUNTY MON. =249438 764

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SIGNATURE Cut Van Eum DATE 2-09-2016 PRINTED NAME CURT VAN EREM

### CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ AP RELEASE OF RIGHTS	R0R
DRIVEWAY CONNECTION REMAINING	REM.
ACCESS RIGHTS AR RIGHT-OF-WAY	R/W
ACRES AC. SECTION	SEC.
AND OTHERS ET.AL. STATION	STA.
CENTERLINE C/L TEMPORARY LIMITED B	
CERTIFIED SURVEY MAP CSM VOLUME	V.
CORNER COR.	**
DOCUMENT DOC. CURVE D	ATA
EASEMENT EASE. LONG CHORD	1.0
HIGHWAY EASEMENT H.E. LONG CHORD BEARING	LCB
LAND CONTRACT LC RADIUS	R
MONUMENT MON. DECREE OF CURVE	1/

FOUND IRON PIPE/PIN R/W MONIMENT R/W STANDARD SIGN SECTION CORNER MONUMENT SECTION CORNER SYMBOL FEE (HATCH VARIES)

TEMPORARY LIMITED EASEMENT PERMANENT LIMITED EASEMENT R/W BOUNDARY POINT PARCEL NUMBER SIGN NUMBER (OFF PREMISE)

### (FUNLESS NOTED) EXISTING R/W DEFINED ON PLAT — EXISTING H.E. LINE

CONVENTIONAL SYMBOLS

0.042

• •(SET) PROPERTY LINE △ ▲(SET) LOT & TIE LINES ISIGN SLOPE INTERCEPTS CORPORATE LIMITS ⊞ ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL) ACCESS RESTRICTED (BY ACQUISITION) 1222 NO ACCESS
(BY STATUTORY AUTHORITY) ••••• ヒムコ SECTION LINE 109 QUARTER LINE SIXTEENTH LINE EXISTING CENTERLINE

PROPOSED REFERENCE LINE

PARALLEL OFFSET

**五**节

**SW-NW** 17-30-28

TOWN

CABLE TELEVISION FIBER OPTIC \_\_\_\_F0\_\_\_ SANITARY SEWER -----SAN-----STORM SEWER -ss---POWER POLE TELEPHONE POLE TELEPHONE PEDESTAL X  $\boxtimes$ FLECTRIC TOWER

TRANSMISSION LINES ELECTRIC

WATER

TELEPHONE

OVERHEAD

109 1448+05.48

CONVENTIONAL UTILITY SYMBOLS

COMPENSABLE COMPENSABLE

— OH ——

SCALE, FEET

PLOT BY : iensen i

L = 286.12' R = 1961.63' LCH = 285.87'

SUBCURVE PRW1

R = 2353.53'

LCH = 128.59

PLOT NAME :

L = 163.00LCH = 162.97' LCB = N23°00'28"W LCB = N26°37'00"W

SUBCURVE PRW3 SUBCURVE PRW4

PI STA. 1451+73.41

Y 248461.762

X 558727.059

PC STA. 1450+37.91

PT STA. 1453+08.11

SUBCURVE PRW2

R = 2027.631

LCH = 140.491

△ 10°48'28"

L 270.20' T 135.50'

R 1432.40

PLOT SCALE: 1:100

DEGREE OF CURVE

LENGTH OF CURVE

TANGENT

CENTRAL ANGLE OR DELTA

PERMANENT I TMTTED FASEMENT PLE

PROPERTY LINE

REFERENCE LINE

# Document Number VACATION ORDER TRANSPORTATION PROJECT PLAT PARCEL Wisconsin Department of Transportation DT2222 11/2013 s.84.095(3)(b) Wis. Stats.

This Vacation Order applies to Transportation Project Plat 4150-17-21-4.02, recorded on Feb 17, 2016 as Document Number 793803 in the Office of the Register of Deeds for Door County.

Whereas, parcel 3 of the above-described Transportation Project Plat has been determined to be unnecessary for transportation improvement project purposes, said parcel is vacated and rescinded.

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	61
	4 01
	10

JUNE 3, 2016 AT 02:41PM

CAREY PETERSILKA REGISTER OF DEEDS DOOR COUNTY, WI

Fee Amount Paid: \$30.00

Tract Indexed

his space is reserved for recording data Return to

Wisconsin Department of Transportation 944 Vanderperren Way
Green Bay, WI 54304

Attn: Real Estate

Parcel Identification Number/Tax Key Number 002 0308302833C

This Vacation Order has been approved by the Wisconsin Department of Transportation.

A Goal	(Seal)	Right of Way Plat Coordinator (Tite)	X Canally Colombus: (Signature) Carolyn Sampson (Print Name)
(Date Commission Expires)	(Signature, Notary Public, State of Wisconsin)  Ruth A Tohnson (Print or Type Name, Notary Public, State of Wisconsin)	State of Wisconsin ) ss.    County   County	5-57-16 (Date – m/d/yyyy)

SCHEDULE OF LANDS & INTERESTS REQUIRED TRANSPORTATION PROJECT PLAT NO: 4150-17-21 - 4.02 PARCEL NUMBER THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE 3 CHARLENE ZAHN 4 LEONARD L. & OLGA LEYENDECKER & JAMES C. LEYENDECKER TLE SOUTHWEST 1/4 OF SECTION 8, TOWNSHIP 30 NORTH, RANGE 28 EAST, TOWN OF BAILEYS HARBOR, 5 CONNIE GREENAWALD & ELIZABETH J. VAN DE VEN LIFE ESTATE TLE DOOR COUNTY, WISCONSIN. R/W COORDINATES OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES RELOCATION ORDER STH 57- BAILEYS HARBOR - SISTER BAY (CTH Q - STH 42) DOOR COUNTY ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT. TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, MPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT. 200 249426.743 558164.139 201 249945.139 557993.585 TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HERBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.

2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES. 202 250610.198 557858.661 203 251140.677 557629.449 204 251159.687 557657.312 T 31 N R 27 F R 28 E 205 251177.831 557683.904 206 251166.274 557691.912 208 250623.654 557923.276 SUBCURVE PRW1 SUBCURVE PRW2 207 250623.653 557923.276 L = 546.90' R = 2419.53' L = 581.65' R = 1473.93' 249958.414 558058.236 SCALE, FEET 210 249427.355 558236.704 LCH = 545.73' LCB = N18°12'41"W LCB = N23°22'07"W 211 249427.050 558200.460 SUBCURVE PRW3 SUBCURVE PRW4 L = 593.56' = 561.58 N55°41'43"E R = 1539.93' R = 2353.53' LCH = 589.891 LCH = 560.24 203 1481+00.0 T 30 N LOCATION 4" COUNTY MON Y=249417.095 X=557020.866 N55°41'43"E TOWN Bailey's Harbor S34°43'01"E 1480+86.23 LOCATION SKETCH - T.L.E. FOR GRADING SCALE, MILES 2 MI. GRADING AND CULVERT PIPE 201 1468+27.06 **NW-NW** 17-30-28 45 14,70 STH 57 CURVE DATA 208) 1475+04.91 32.03' PI STA. 1477+95.47 1475+50.00 32.33',47.50' Y 250280.480 X 556368.671 △ 23°34'19" 1468+26.02 209 L 641.80' T 325.50' R 1560.00 **□** 1462+72.3 PC STA. 1474+69.96 T.L.E. FOR 211 PT STA. 1481+11.76 PC: 1460+69.99 S89°30'59"W 36,25'  $\sqrt{3}$ STH 57 CURVE DATA 210 1462+57.37 33.04 460 PI STA. 1464+82.36 P.L. Y 249607.068 SIXTEENTH LINE P.L. 1462+52.30 8 -3 E X 558091.673 E Δ 17°51'20" **SE-**L 818.05' S T 412.37' NOTES: **SW** R 2625.00' PC STA. 1460+69.99 POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOOR COUNTY, NAD 83 (1991) BAILEYS HARBOR 4" COUNTY MON. IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. Y=249438.764 X=559670.635 PT STA. 1468+88.04 RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE CONVENTIONAL ABBREVIATIONS CONVENTIONAL SYMBOLS CONVENTIONAL UTILITY SYMBOLS PLACED PRIOR TO THE COMPLETION OF THE PROJECT. CT" UNLESS NOTED) EXISTING R/W DEFINED ON PLAT FOUND TRON PIPE PIN ROR ACCESS POINT/ DRIVEWAY CONNECTION RELEASE OF RIGHTS WATER 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". REMAINING REM. EXISTING H.E. LINE GAS ASSOCIATES ACCESS RIGHTS • •(SET) PROPERTY LINE RIGHT-OF-WAY R/W MONUMENT TELEPHONE PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS ACRES SECTION SEC. R/W STANDARD △ △(SET) LOT & TIE LINES -----...IAMES R. CAPPEART, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE AND OTHERS ET.AL. STA. STATION STGN ISIGN SLOPE INTERCEPTS \_\_\_\_\_ CENTERLINE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE TEMPORARY LIMITED EASEMENT TLE

OVERHEAD TRANSMISSION LINES ELECTRIC SECTION CORNER MONUMENT CORPORATE LIMITS Ħ CABLE TELEVISION —— TV—— SECTION CORNER SYMBOL

FIBER OPTIC

STORM SEWER

POWER POLE

SANITARY SEWER

TELEPHONE POLE

ELECTRIC TOWER

TELEPHONE PEDESTAL X

\_\_\_\_SAN\_\_\_

NON SS-

COMPENSABLE COMPENSABLE

ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)

PLOT BY: franzenc

.....

ACCESS RESTRICTED (BY ACQUISITION)

K Z Z L SECTION LINE

109

L \_\_ J NO ACCESS
(BY STATUTORY AUTHORITY)

QUARTER LINE

SIXTEENTH LINE

PARALLEL OFFSET

EXISTING CENTERLINE

PROPOSED REFERENCE LINE

FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT IHAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4150-17-21 - 4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE LAND SURVEYED.

SIGNATURE

PRINTED NAME

JAMES R. CAPPEART

James R Cappeart S-3044 Green Bay

REGISTRATION NUMBER \_\_\_\_\_\_\_ S-3044

DOC#: 793803

Recorded Feb 17, 2016 AT 10:53 AM

Fee Amount Paid: \$ 25.00

eRecorded By: WISDOT - NE REGION - GREEN BAY

RESERVED FOR REGISTER OF DEEDS

PROJECT NUMBER 4150-17-21-4.02

P.L.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SIGNATURE Cutt In Euro DATE 2-09-2016 PRINTED NAME CURT VAN EREM

FILE NAME: V:\Survey\GB\41-0626.00 STH 57 JT\DGN\41501721\_402.dgr

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN,

DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 57 ESTABLISHED FROM PREVIOUS PROJECT 4150-05-22

INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND LAND CON-EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, MONUMENT

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE RECORDED AS

REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR PAGE

CERTIFIED SURVEY MAP

HIGHWAY EASEMENT

PERMANENT LIMITED EASEMENT PLE

LAND CONTRACT

PROPERTY LINE

CORNER

DOCUMENT

EASEMENT

VOLUME

RADTUS

TANGENT

LONG CHORD

LONG CHORD BEARING

CENTRAL ANGLE OR DELTA

DEGREE OF CURVE

LENGTH OF CURVE

CURVE DATA

DOC.

EASE.

H.E.

(100')

PLOT DATE: 12/8/2015

PLOT NAME :

PLOT SCALE: 1:100

USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FEE (HATCH VARIES)

TEMPORARY LIMITED EASEMENT

PERMANENT LIMITED EASEMENT

R/W BOUNDARY POINT

PARCEL NUMBER

SIGN NUMBER (OFF PREMISE)

BUILDING

PARCEI NUMBER	OWNER (S.)	INTEREST REQUIRED	OR	R/W ACRES	ED	PLE, TL
NUMBER	011-112-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	KEGGIKED	NEW	EXISTING	TOTAL	OR SF
	WILLIAM R. OLDENBURG AND JOAN J. OLDENBURG REVOCABLE					
8	TRUST DATED 2-17-09, WILLIAM R. OLDENBURG, TRUSTEE OF	TLE				0.10
	THE IRENE OLDENBURG TESTAMENTARY TRUST. & KASEY A. OLDENBURG					

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

	EXISTING	R/W MONUME	NTS
PT NO	STATION	OFFSET	MON. TYPE
3000	1519+22.73	32.58'	1" IRON PIP

TOWN

R/W COORDINATES					
PT NO	Y	X			
300	254665.476	557031.604			
301	254665.392	556998.535			
302	254669.750	556998.521			
303	254800.608	556998.088			
304	255071.911	556997.191			
305	255980.043	557010.831			
306	255980.057	557044.719			
307	255980.058	557047.668			
308	255979.780	557076.835			
309	255071.525	557063.193			
310	254664.951	557064.537			
311	254665.473	557031.799			

# TRANSPORTATION PROJECT PLAT NO: 4150-17-21 - 4.03

THAT PART OF THE SOUTHEAST  $\frac{1}{4}$  OF THE SOUTHEAST  $\frac{1}{4}$ , SECTION 6, TOWNSHIP 30 NORTH. RANGE 28 EAST, TOWN OF BAILEYS HARBOR, DOOR COUNTY, WISCONSIN.

RELOCATION ORDER STH 57- BAILEYS HARBOR - SISTER BAY (CTH Q - STH 42) DOOR COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HICHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS N LANDS FOR THE ABOVE PROJECT.

305 1531+00.73 33.88

DETAIL NOT TO SCALE

308 1531+01.5

2629.39' MON.-MON.

N00°51'38"F 908-23'

908-36

₽ .NO0°56'09"E

S00°51'38"W

N89°58'36"E

S89°27'09"E / 29.17

15,30

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORIT/ GRANTED UNDER SECTION 84.02 (3) AND 84.09, 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HERBY ORDERS THAT:

1. THAT PORTION OF 5/ID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.

2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACOJIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 4150-17-21-4.03 AMENDMENT NO:

SCALE, FEET

DOC#: 793804

Recorded Feb 17, 2016 AT 10:53 AM

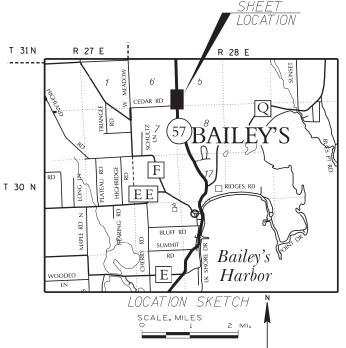
Fee Amount Paid: \$ 25.00

eRecorded By: WISDOT - NE REGION - GREEN BAY

 $\rightarrow$  Z

200

4" COUNTY MON. Y=257294.641 X=557063.732





POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOOR COUNTY, NAD 83 (1991) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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".

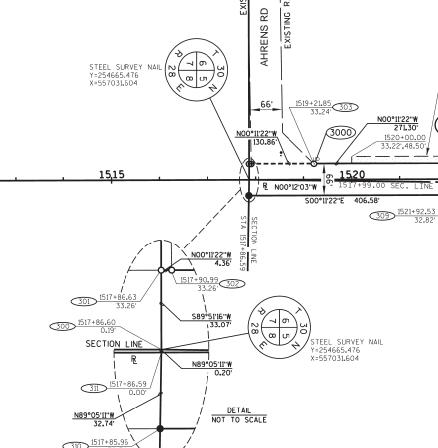
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 57 FSTABLISHED FROM PREVIOUS PROJECT 4150-05-22 AND

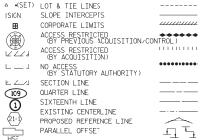
EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM CENTERLINE OF EXISTING PAVEMENTS AND PREVIOUS PROJECT 4150-05-22. EXISTING HIGHWAY ACCESS CONTROL SHOWN HEREIN IS BASED ON THE FOLLOWING POINT OF REFERENCE:

EXISTING HIGHWAY ACCESS CONTROL FOR STH 57 ESTABLISHED FROM PREVIOUS PROJECT 4150-05-22. A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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



### CONVENTIONAL SYMBOLS U" UNLESS NOTED) EXISTING R/W DEFINED ON PLAT FOUND IRON PIPE/PIN EXISTING H.E. LINE • (SET) PROPERTY LINE R/W STANDARD △ \*(SET) LOT & TIE LINES ISIGN SLOPE INTERCEPTS SECTION CORNER MONUMENT CORPORATE LIMITS ⊞ SECTION CORNER SYMBOL



**SE-**

EXISTING R/W

EXISTING R/W

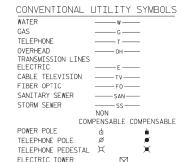
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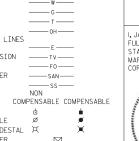
SECTION LINE NOO°42'00"E

**SW-SW** 5-30-28

**STH 57** 

- T.L.E. FOR GRADING





**ASSOCIATES** 

BAILEYS HARBOR

JAMES R CAPPEART PROFESSIONAL LAND SURVEYOR HERERY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT IHAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4150-17-21 - 4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE LAND SURVEYED.



SIGNATURE DATE 11-05-2015 PRINTED NAME \_\_\_\_\_\_\_ JAMES R. CAPPEART REGISTRATION NUMBER \_\_\_\_

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SIGNATURE CUTT PRINTED NAME CURT VAN EREM

CONVENTIONAL ABBREVIATIONS RELEASE OF RIGHTS

ACCESS POINT/ DRIVEWAY CONNECTION REMAINING ACCESS RIGHTS RIGHT-OF-WAY SECTION AND OTHERS FT.AI STATION CENTERL THE C/L TEMPORARY LIMITED EASEMENT TLE CERTIFIED SURVEY MAP VOLUME ^ORNER COR. DOC. DOCUMENT CURVE DATA EASEMENT EASE. LONG CHORD HIGHWAY EASEMENT H.E. LONG CHORD BEARING LC MON. AND CONTRACT RADTUS MONUMENT DEGREE OF CURVE PAGE CENTRAL ANGLE OR DELTA PERMANENT LIMITED EASEMENT PLE LENGTH OF CURVE PROPERTY I INF TANGENT RECORDED AS (100')

REFERENCE LINE

FEE (HATCH VARIES) TEMPORARY LIMITED EASEMENT PERMANENT LIMITED EASEMENT R/W BOUNDARY POINT PARCEL NUMBER SIGN NUMBER (OFF PREMISE) BUILDING

R/W MONUMENT

STGN

PLOT DATE: 12/8/2015

ROR

REM.

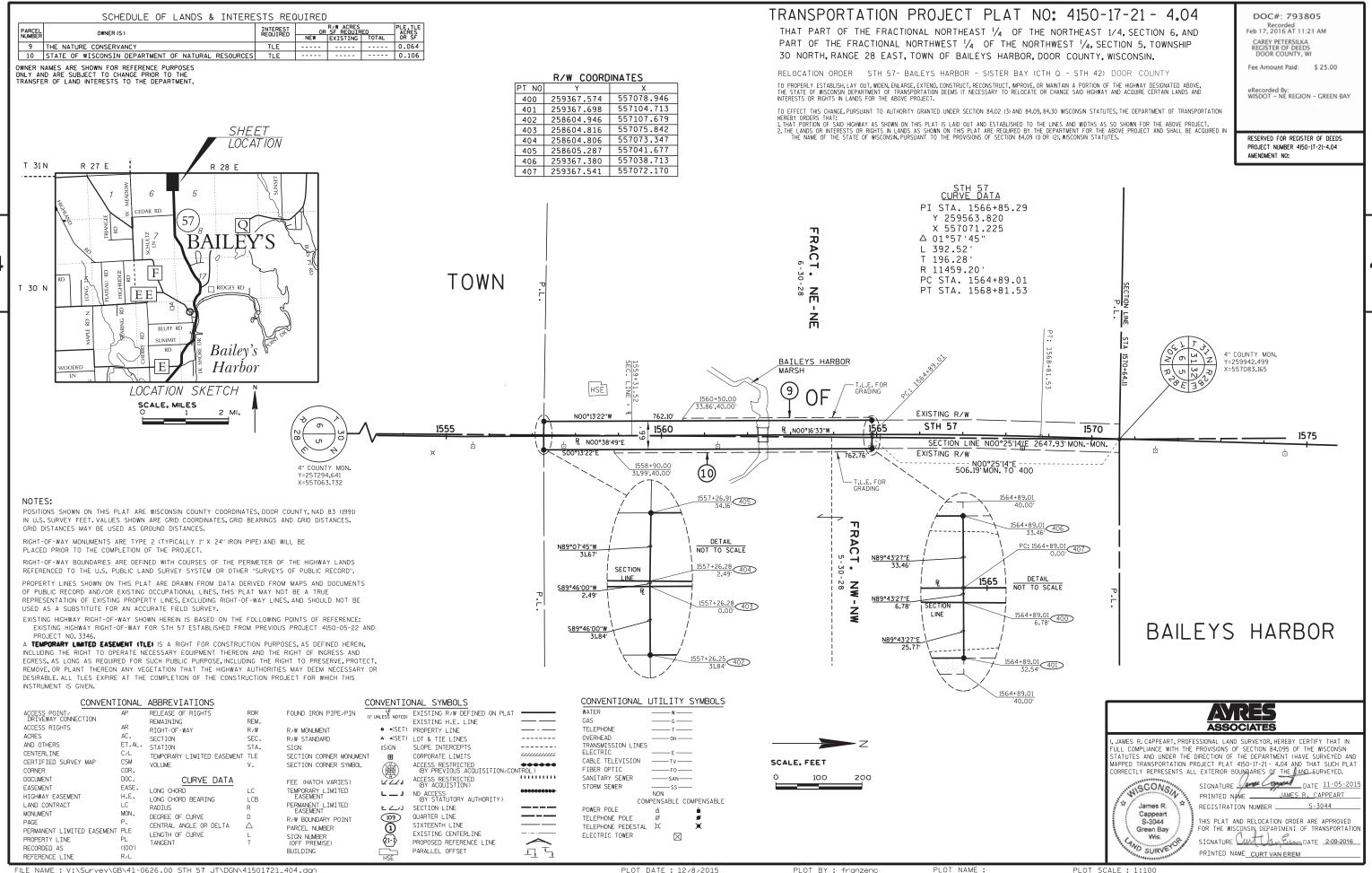
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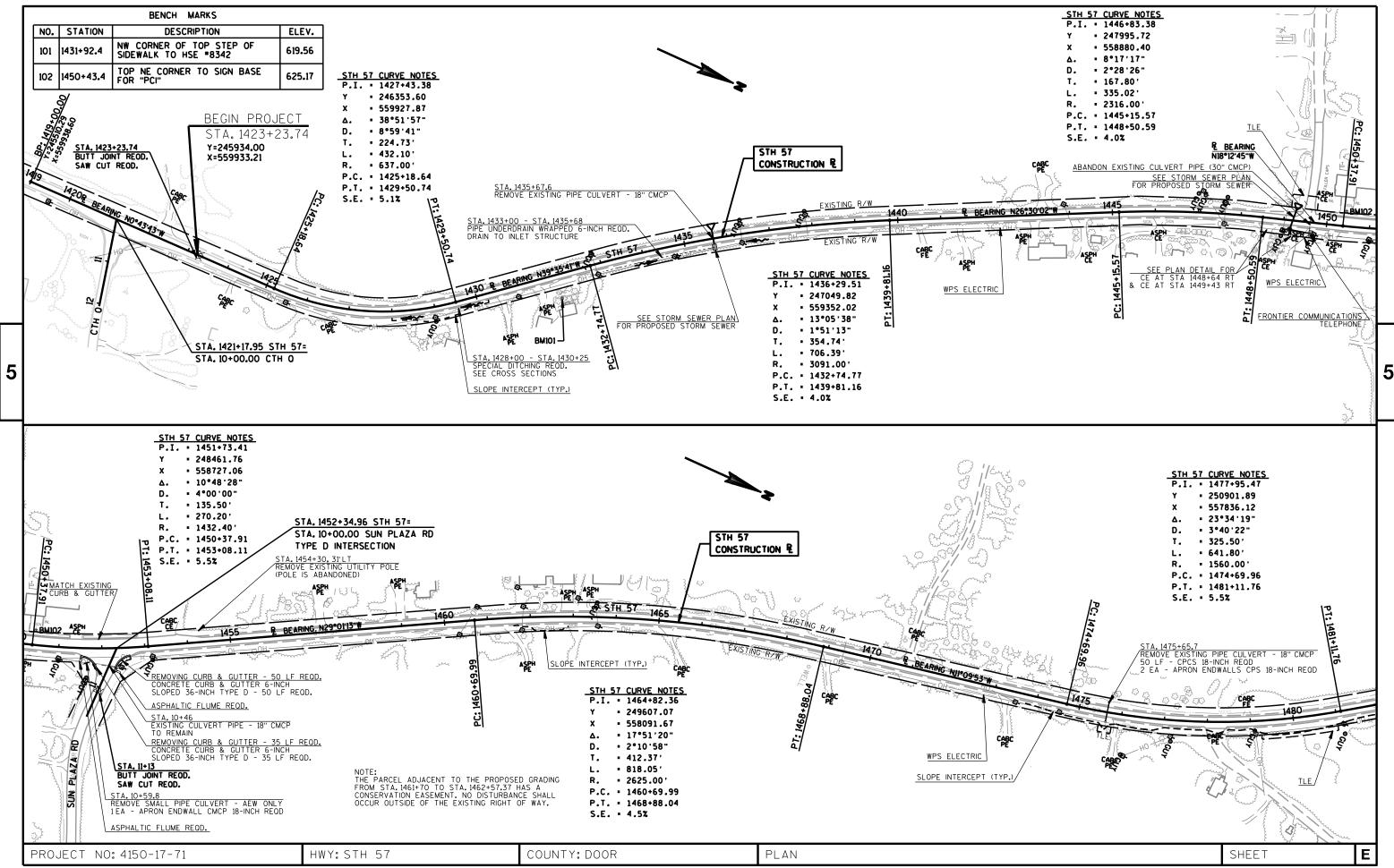
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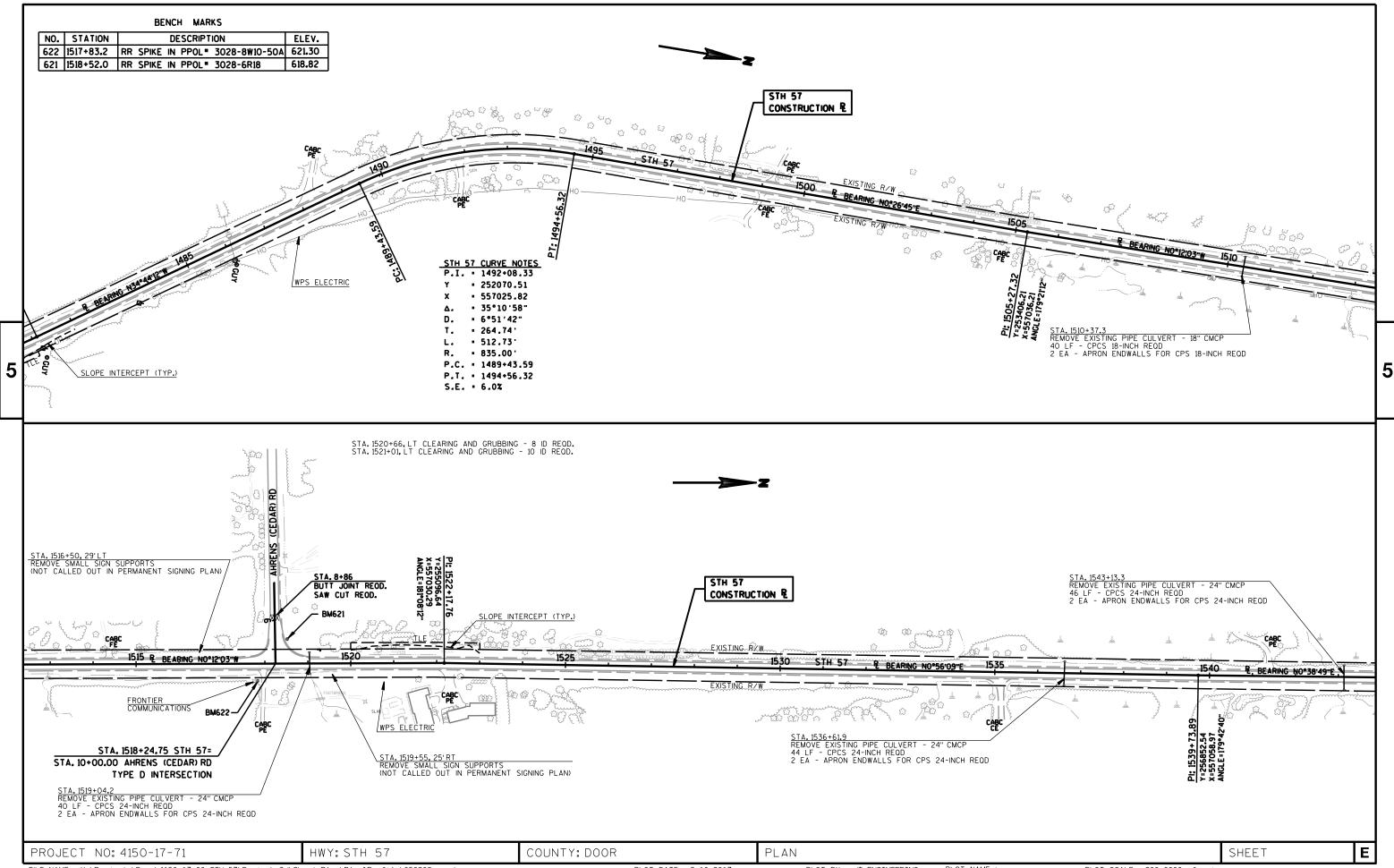
PLOT BY: jensenj

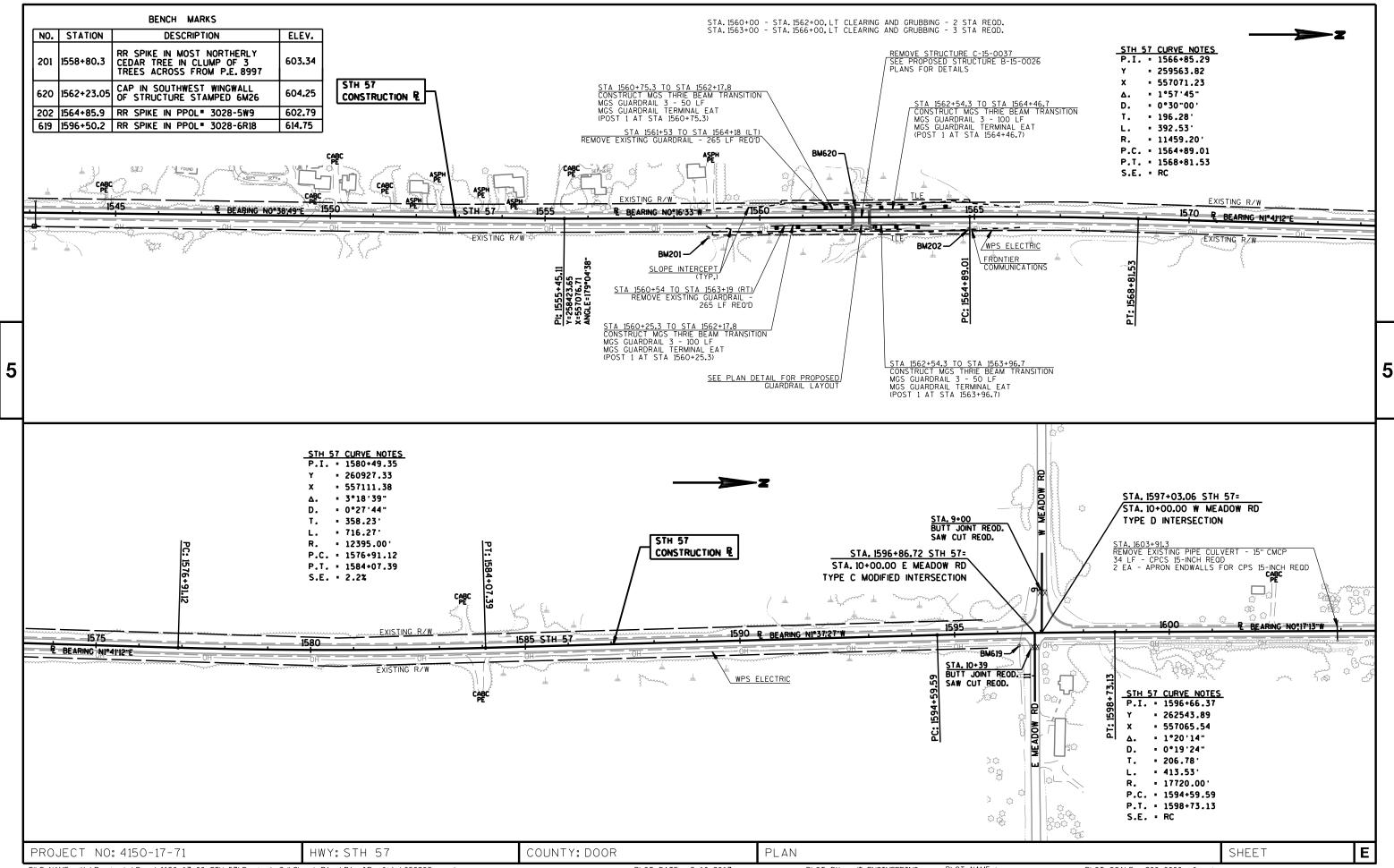
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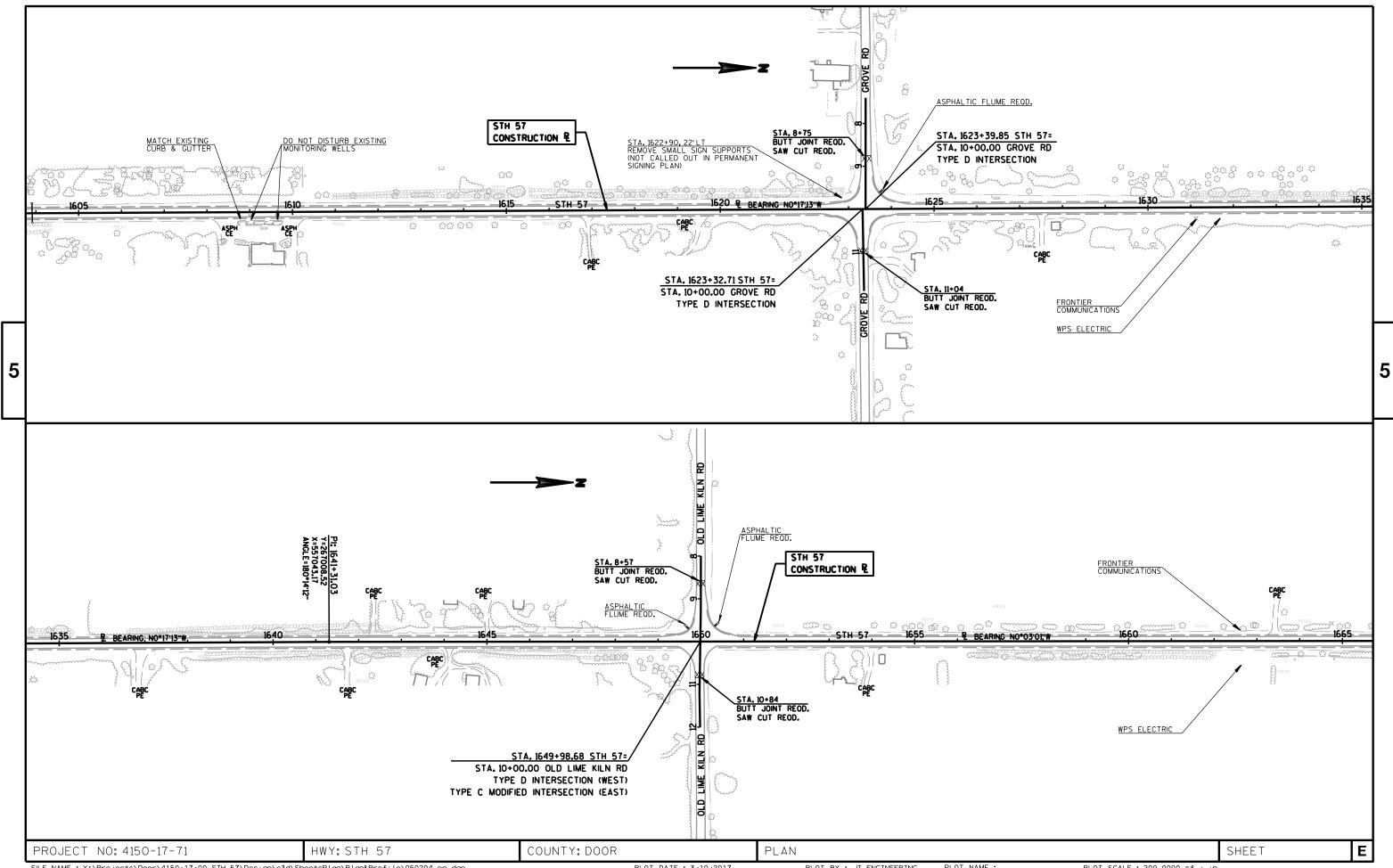
PLOT SCALE: 1:100

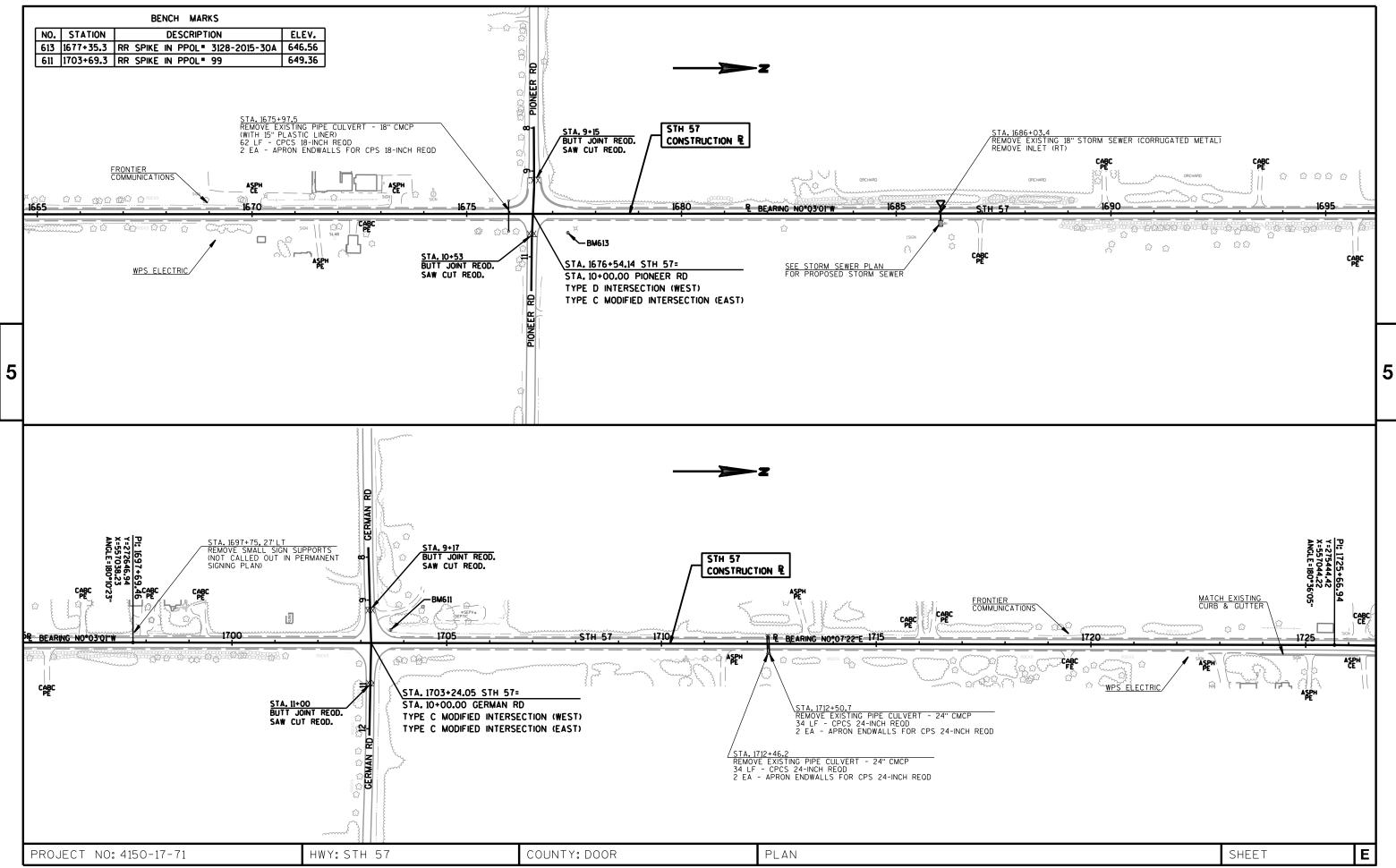


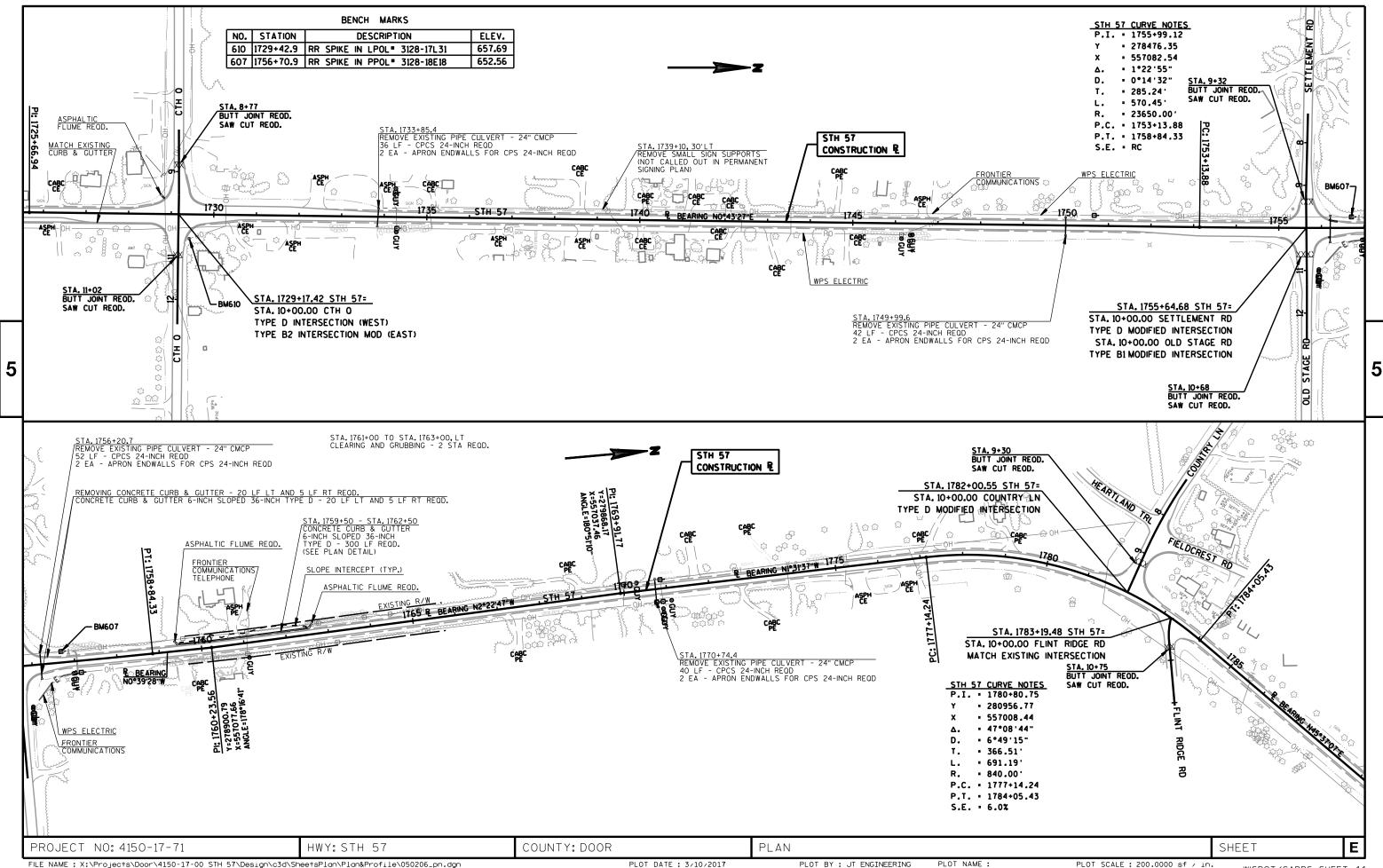


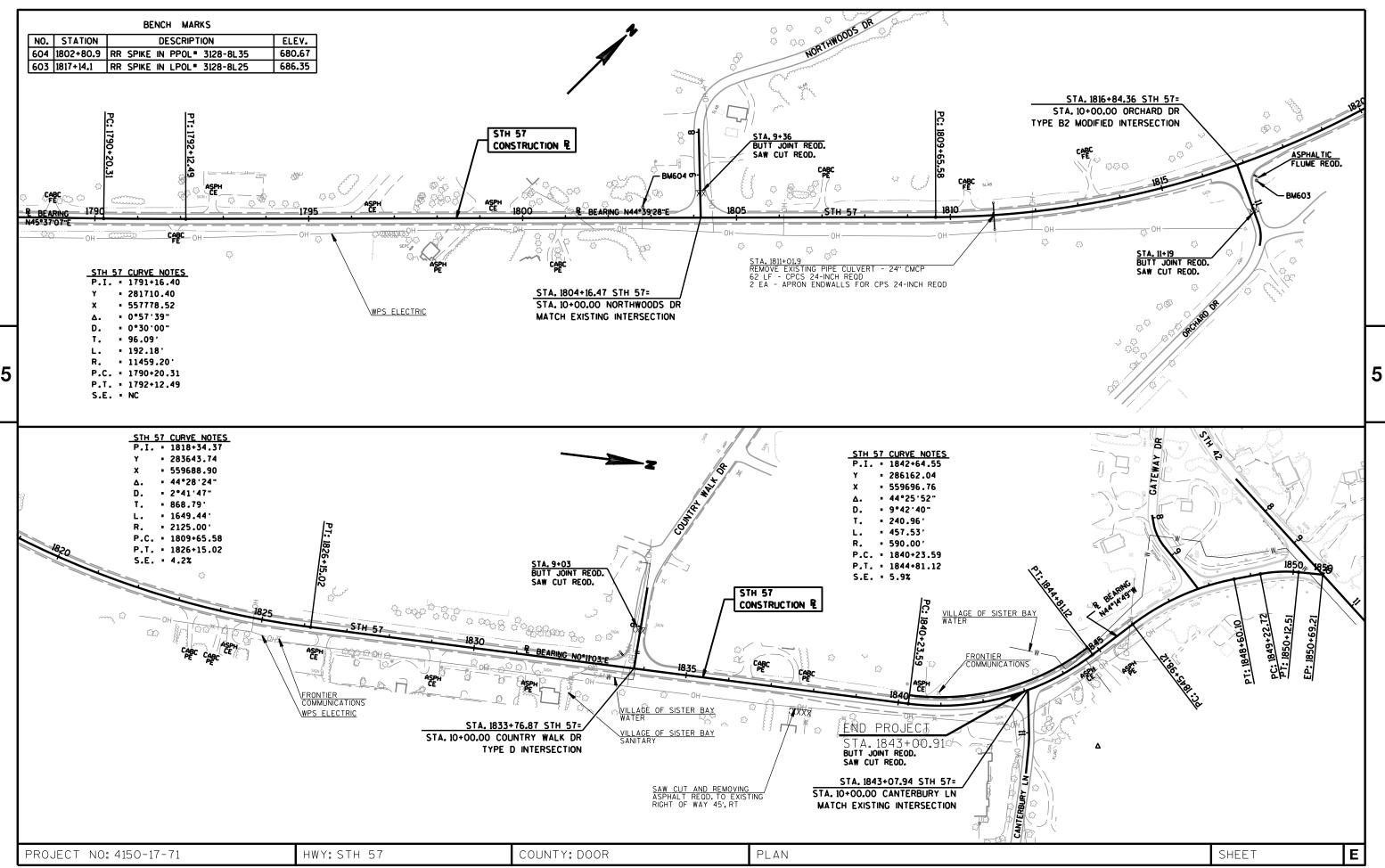






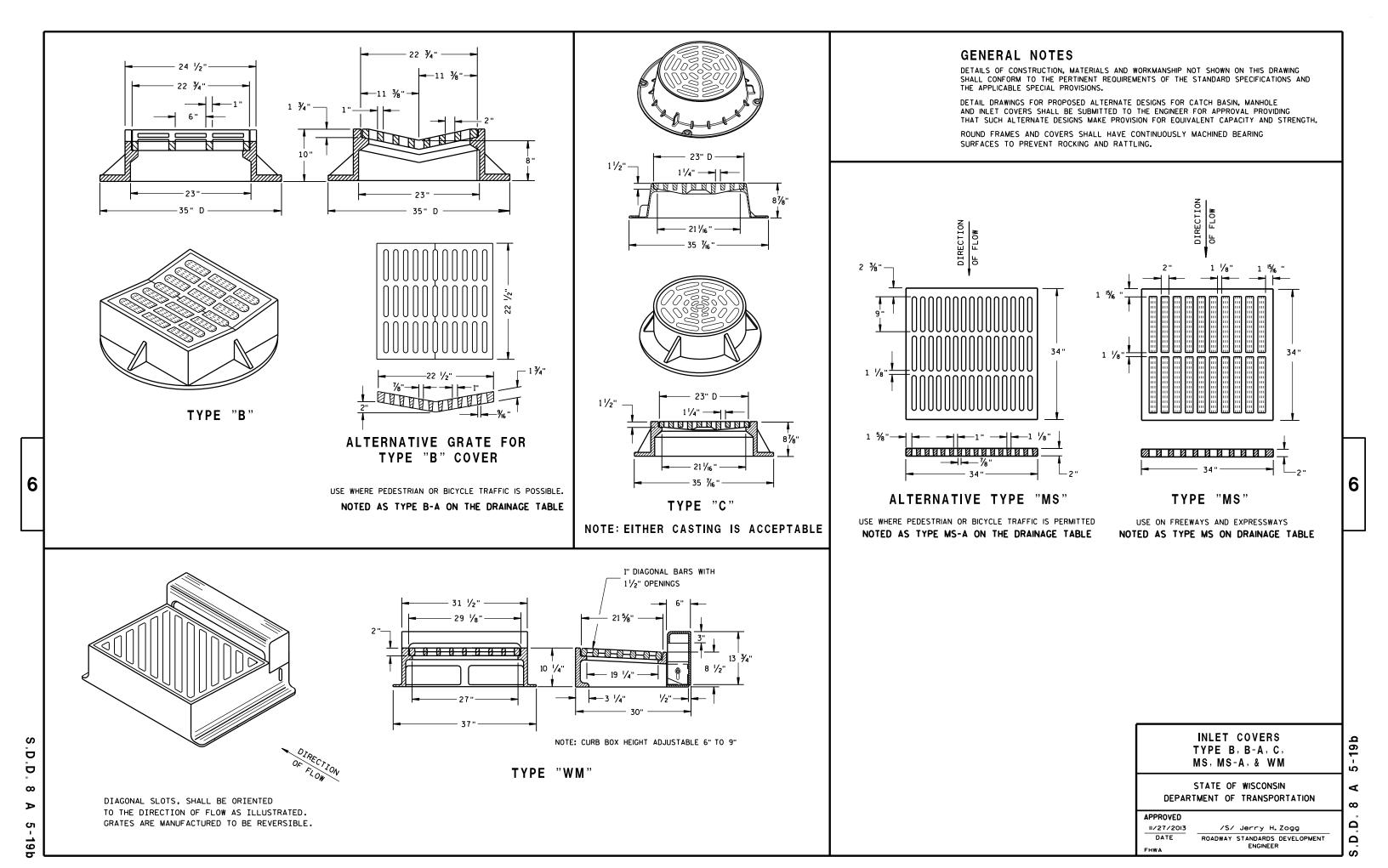






# Standard Detail Drawing List

08A05-19B 08C06-02 08C08-02 08D01-19 08D04-05 08E08-03 08E09-06 08E10-02 08F01-11 08F04-07 09A01-13A 09A01-13B 12A03-10 14B28-03 14B42-04A 14B42-04B 14B42-04C 14B44-02B 14B44-02B 14B45-04C 14B45-04A 14B45-04B 14B45-04C 14B45-04B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM INLETS 3-FT AND 4-FT DIAMETER INLETS MEDIAN 1 AND 2 GRATE CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS SILT FENCE INLET PROTECTION TYPE A, B, C AND D APRON ENDWALLS FOR CULVERT PIPE JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2" NAME PLATE (STRUCTURES) GUARDRAIL MOW STRIP MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL 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) MIDWE
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B 15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-17A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15033-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-01A 15D28-03	PAVEMENT MARKING (INTERSECTIONS) TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY



CIRCULAR INLETS W/ FLAT TOP

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SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" DETAIL "A"

# INLETS 3-FT AND 4-FT DIAMETER

#### **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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

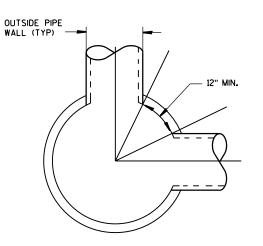
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- (1) MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.
- 2 FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

#### INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	С	F	ALL H'S	S	Т	٧	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				×							х
	2X2	Х	х					х		Х		
4-FT	2 DIA.				х							х
	2X2	х	х					х		Х		
	2X2.5			х				х	х	Х	х	
	2X3						х					
	2.5X3					х						



DETAIL "C"

#### PIPE MATRIX

INLET		MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES						
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)						
3-FT	15	12						
4-FT	24	18						

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

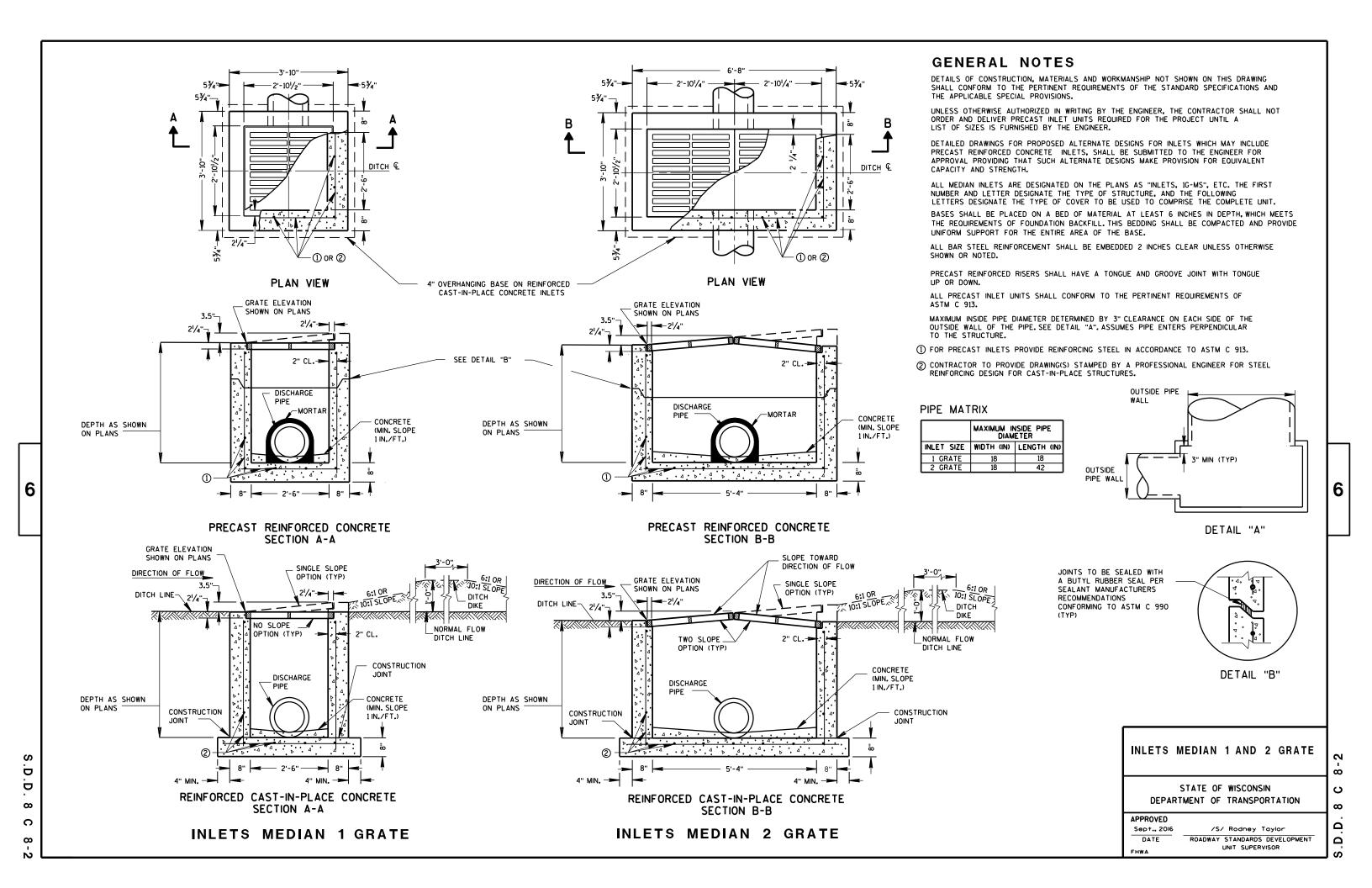
APPROVED

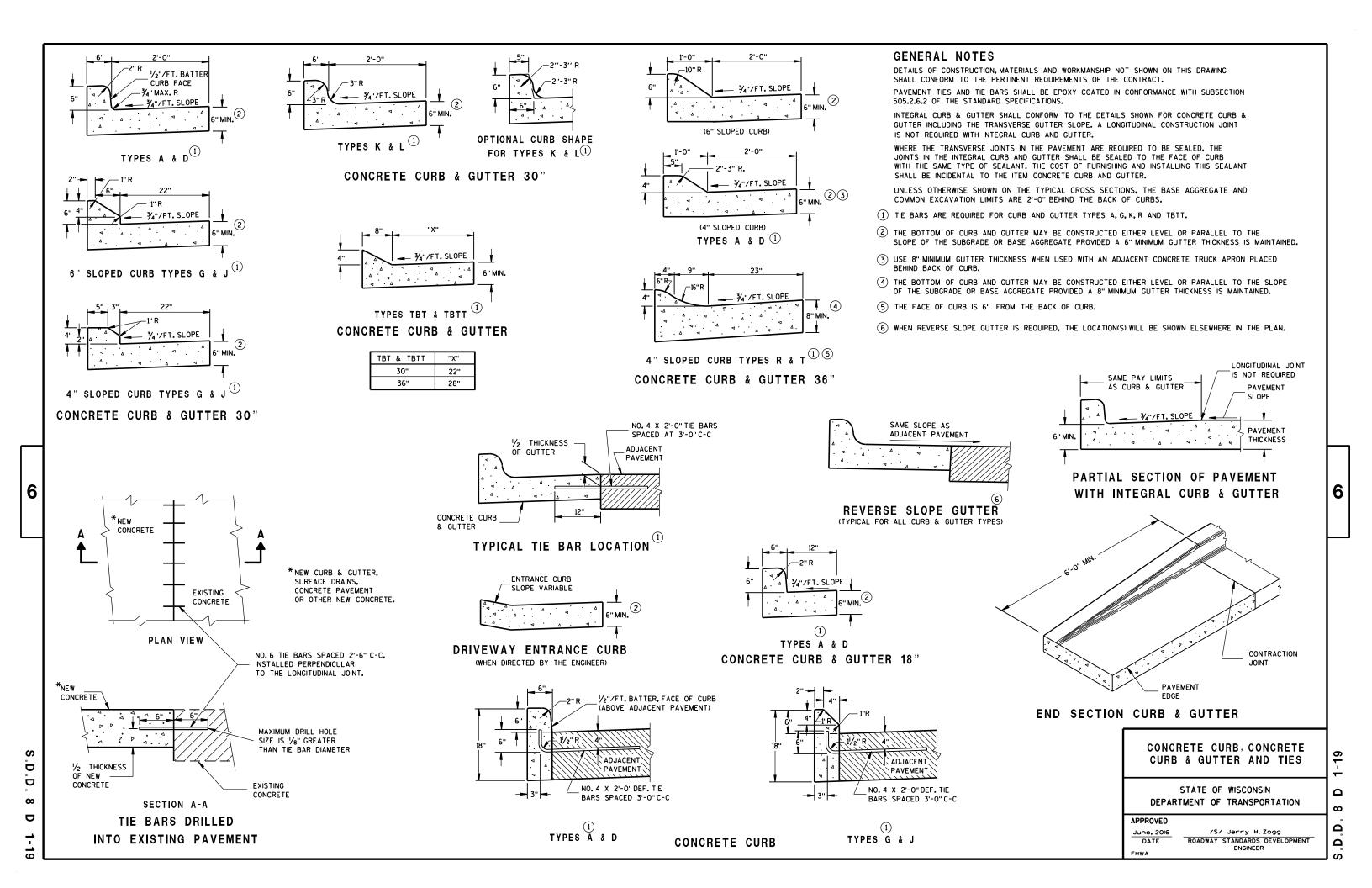
Sept., 2016 /S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

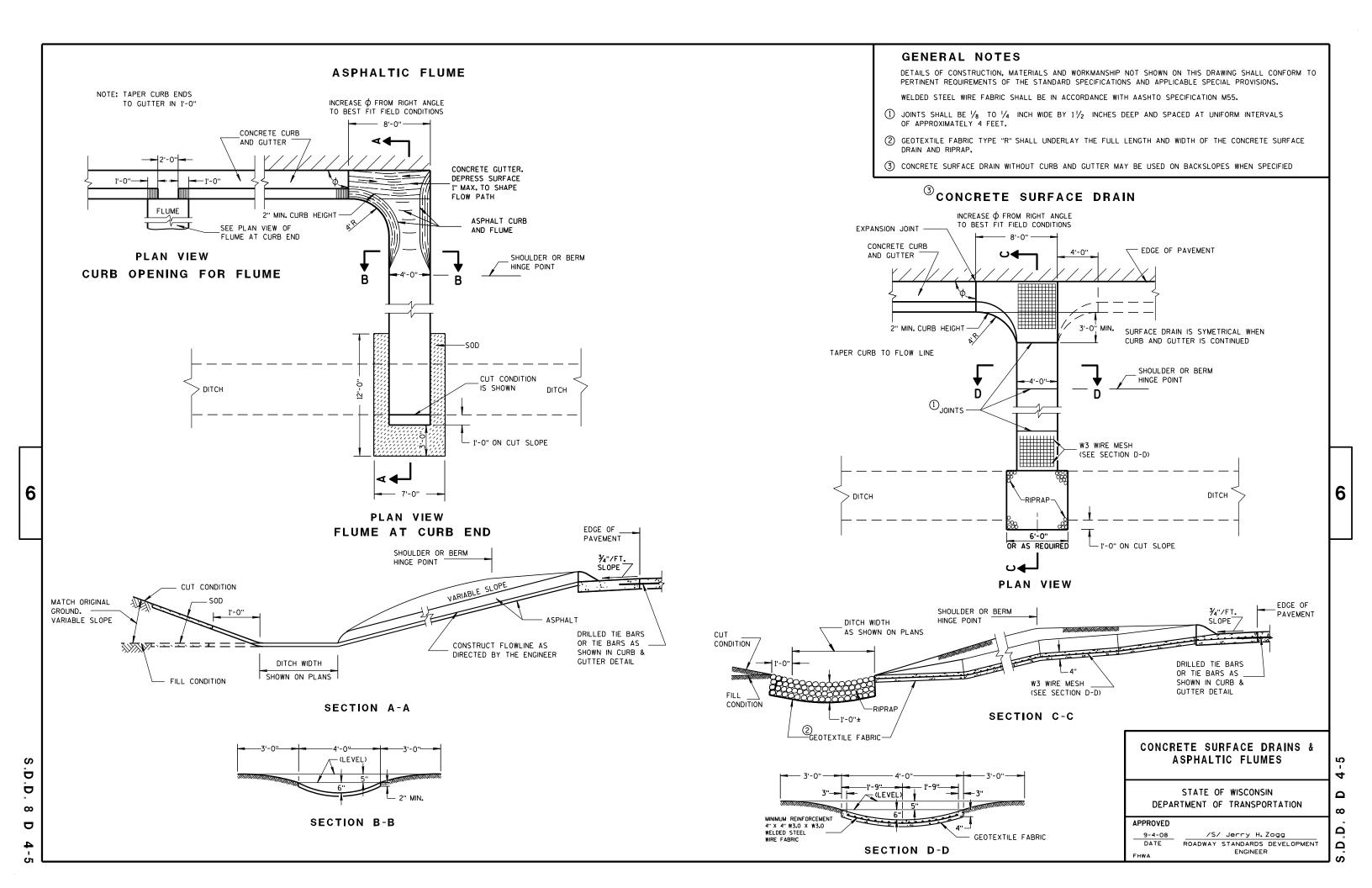
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#### **GENERAL NOTES**

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

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



WHEN ALTERING THE DIRECTION OF FLOW



#### **PLAN VIEW**



#### FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

**EROSION BALES FOR SHEET FLOW** 

#### TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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# TYPICAL APPLICATION OF SILT FENCE

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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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

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

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D.D. 8 E 9





INLET PROTECTION, TYPE A

#### **GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



#### INLET PROTECTION, TYPE C (WITH CURB BOX)

#### **INSTALLATION NOTES**

#### TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE. USING A SEWN FLAP. HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

#### TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

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

#### INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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	METAL APRON ENDWALLS										
PIPE	MIN. 1	THICK.		APPROX.							
DIA.	(Incl		A	В	Н	L	Γį	L <sub>2</sub>	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2	
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½to 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	<b>.</b> 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 <sup>1</sup> / <sub>4</sub> +o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 <sup>1</sup> / <sub>4</sub> †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.

	REINFORCED CONCRETE APRON ENDWALLS								
PIPE		APPROX.							
DIA.	T	A	В	С	D	Ε	G	SLOPE	
12	2	4	24	48 1/8	721/8	24	2	3 to 1	
15	21/4	6	27	46	73	30	21/4	3 to 1	
18	21/2	9	27	46	73	36	21/2	3 to 1	
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1	
24	3	91/2	431/2	30	731/2	48	3	3 to 1	
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1	
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1	
36	4	15	63	34¾	97¾	72	4	3 to 1	
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1	
48	5	24	72	26	98	84	5	3 to 1	
54	51/2		65	**************************************	8 <sup>1</sup> / <sub>4</sub> - 100	90	51/2	2% to 1	
60	6	* ** 30-35	60	39	99	96	5	2 to 1	
66	61/2	<del>* **</del>  24-30	<del>*</del> <del>* *</del>   72-78	* * * 21-27	99	102	51/2	2 to 1	
72	7	* ** 24-36	78	21	99	108	6	2 to 1	
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1	
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1	
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1	

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







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

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

## \* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



\*\*MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



# SECTION A-A

#### GENERAL NOTES

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

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

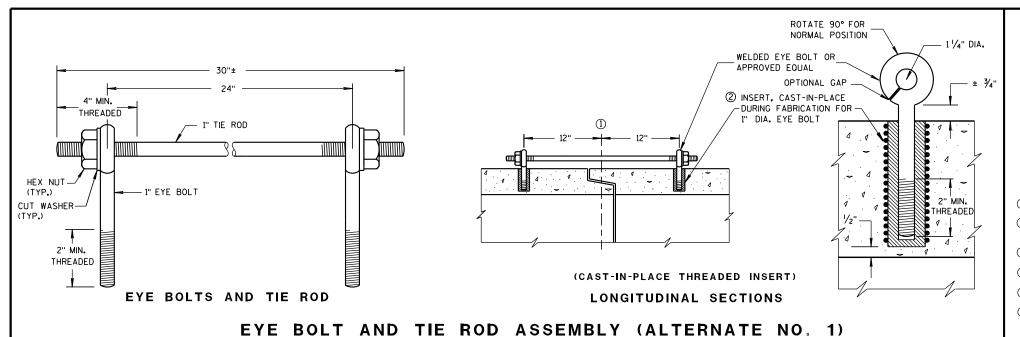
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



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



#### **GENERAL NOTES**

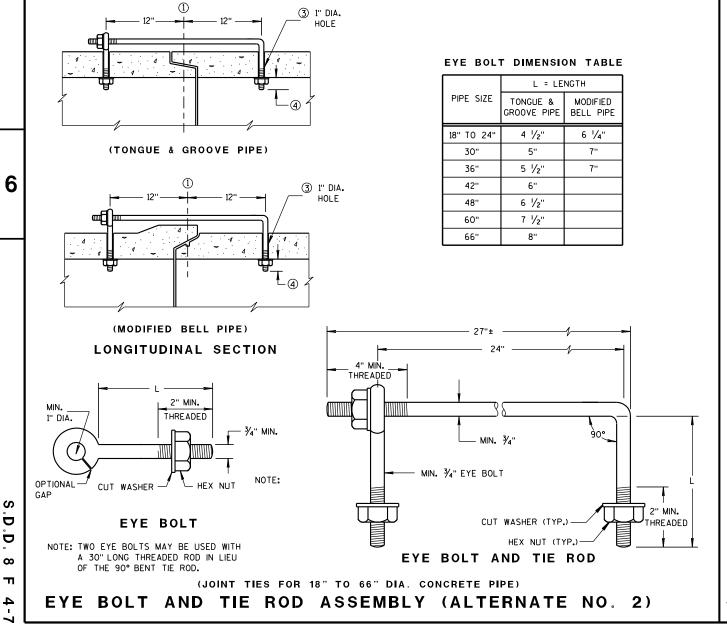
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

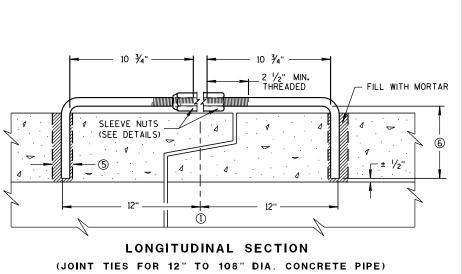
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

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

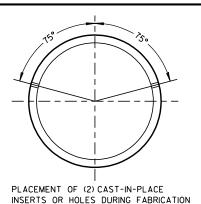
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$  HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM  ${\mathfrak L}$  OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL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



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

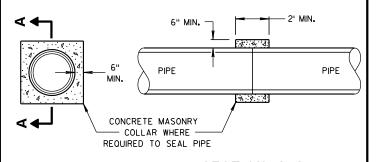


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

#### TRANSVERSE SECTION



SECTION A-A

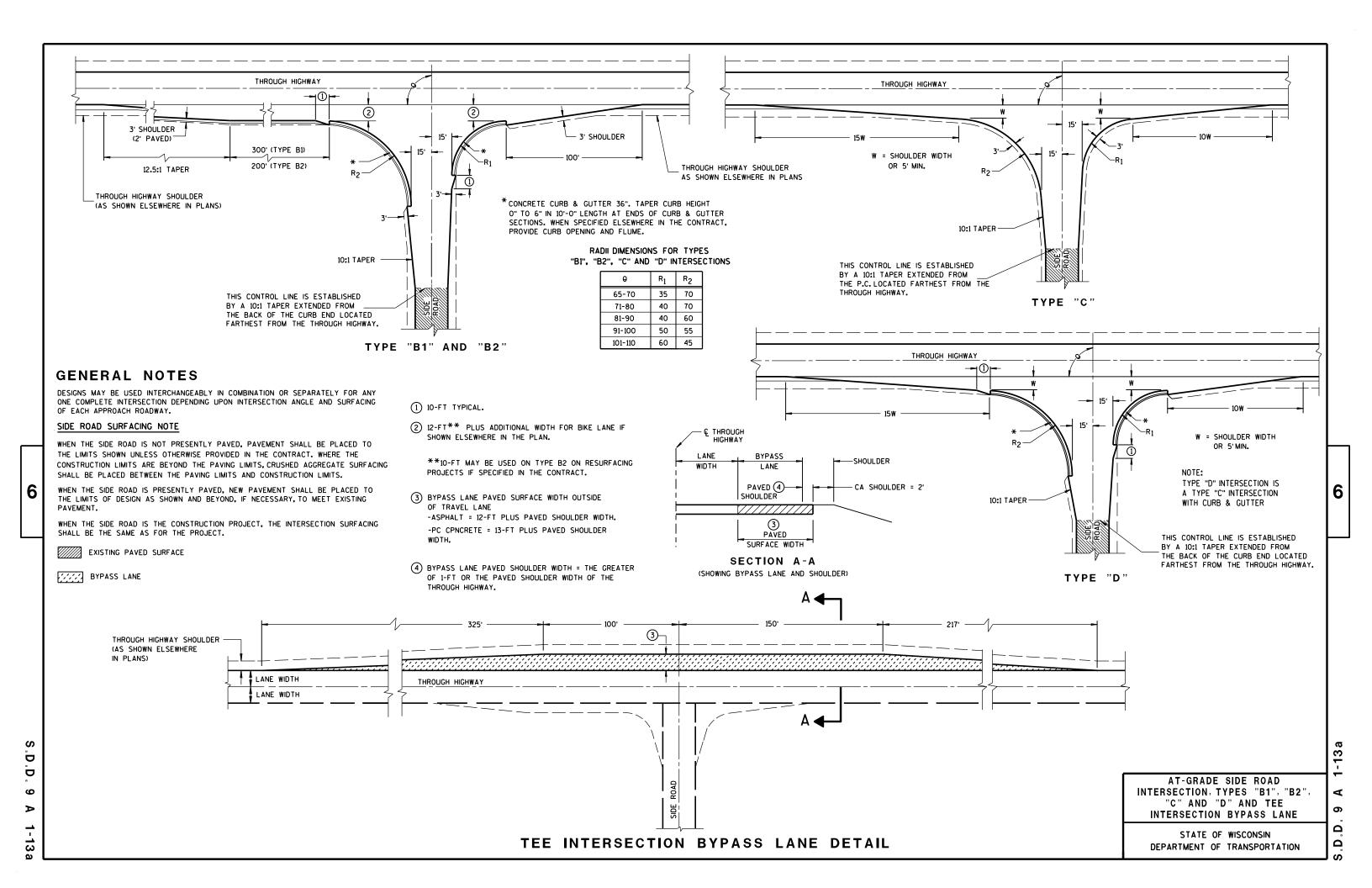
#### CONCRETE COLLAR DETAIL

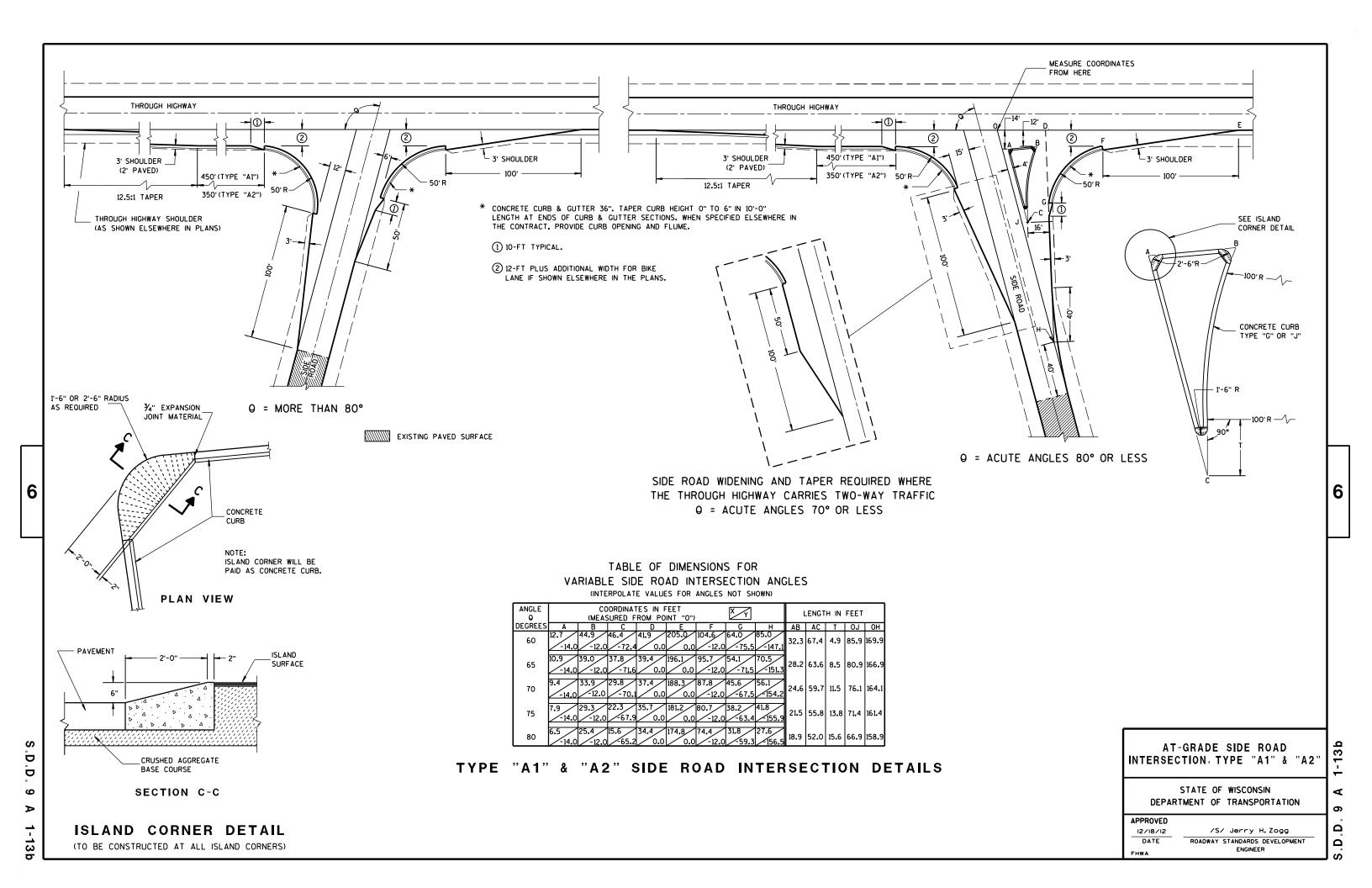
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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#### 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.
- (2) 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

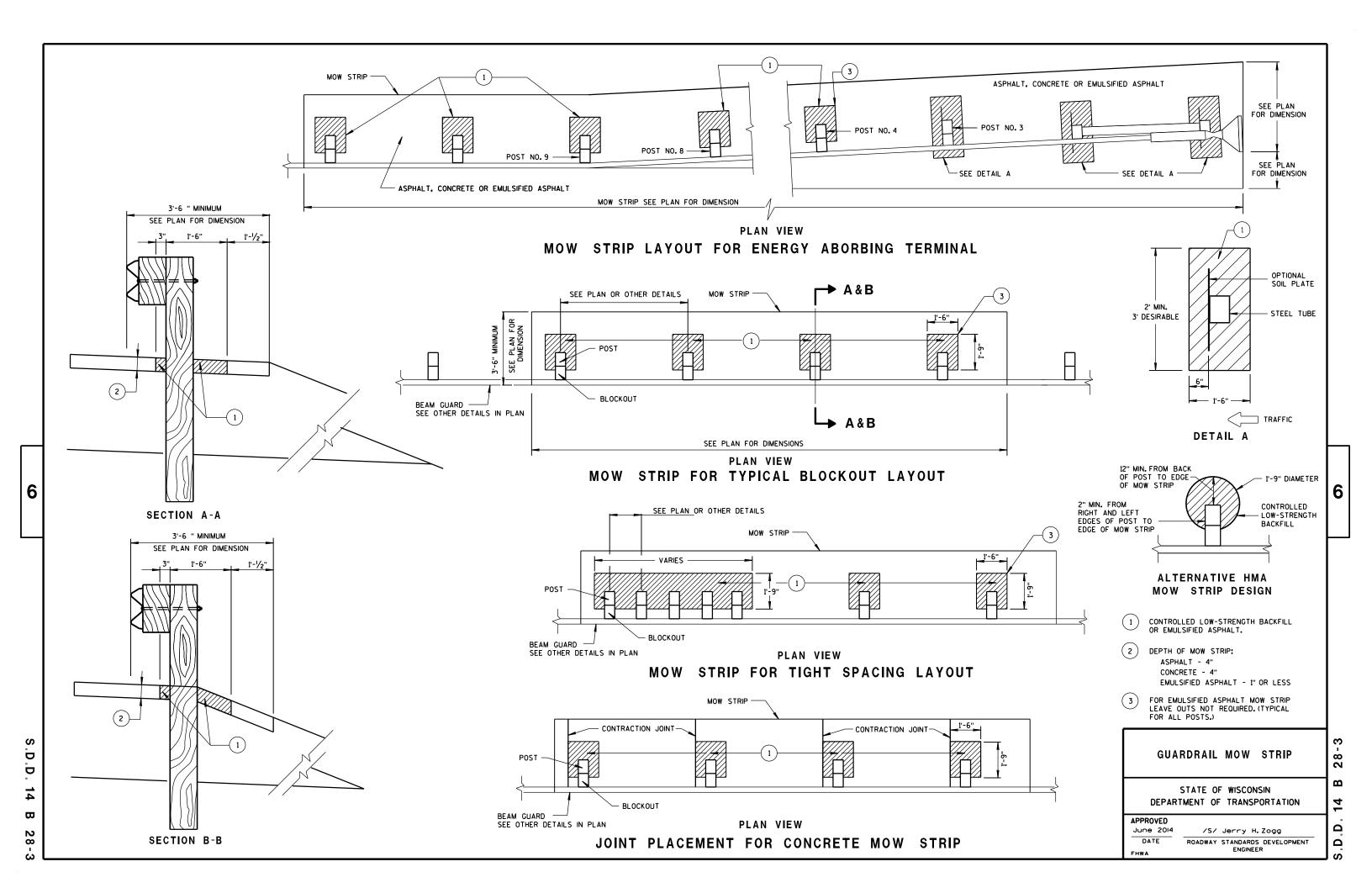
|--|

3/26/IO /S/ SCOT BECKET

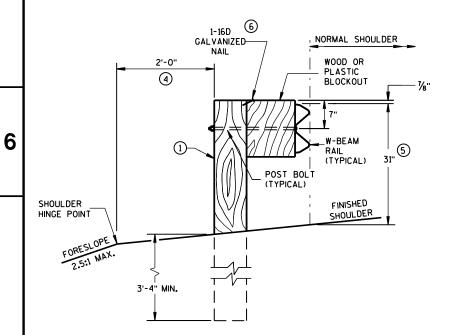
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

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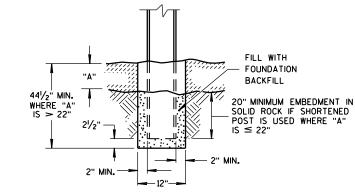


- 2 USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



**END VIEW** 

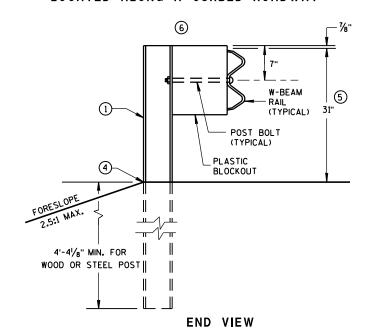
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



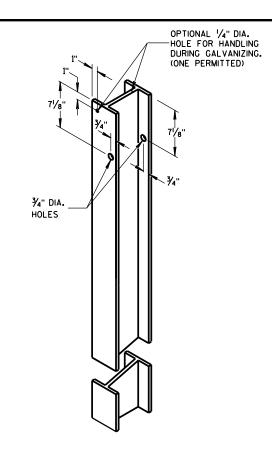
SETTING STEEL OR WOOD POST IN ROCK  $^{\cite{3}}$ 



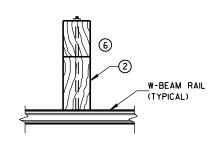
END VIEW
LOCATED ALONG A CURBED ROADWAY



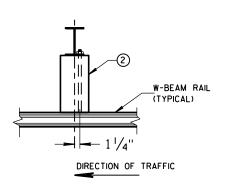
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



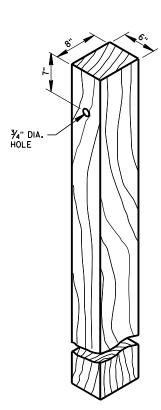
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



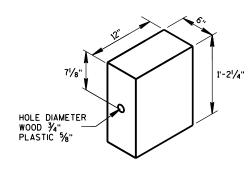
PLAN VIEW WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL  $^{\scriptsize \textcircled{1}}$ 



WOOD OR PLASTIC BLOCKOUT

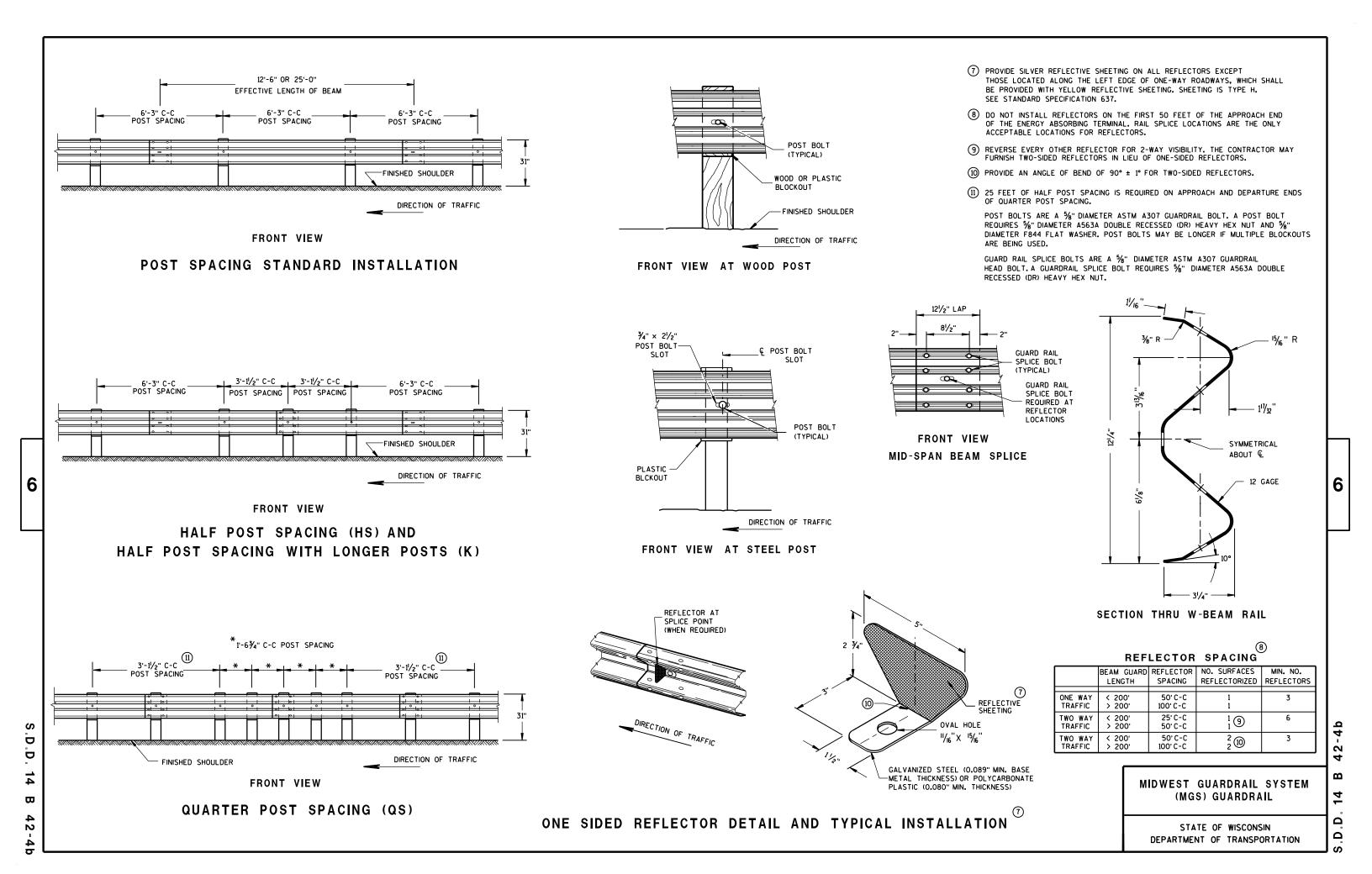
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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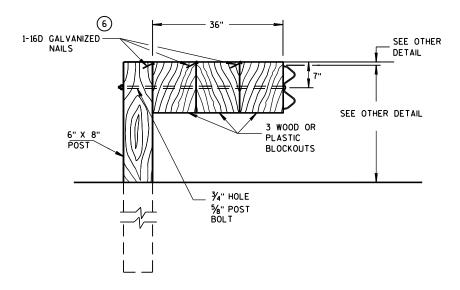
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#### DETAIL FOR 16" BLOCKOUT DEPTH

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

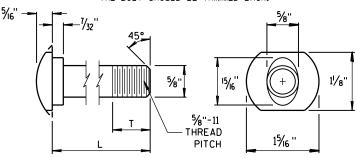


#### DETAIL FOR 36" BLOCKOUT DEPTH

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

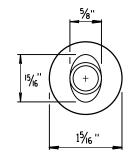
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

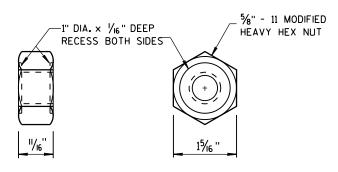


POST BOLT TABLE

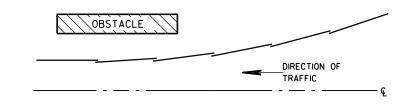
11/8"
-70
13/4"
4"
4½ <sub>6</sub> "
4"
41/16"
4"



ALTERNATE BOLT HEAD

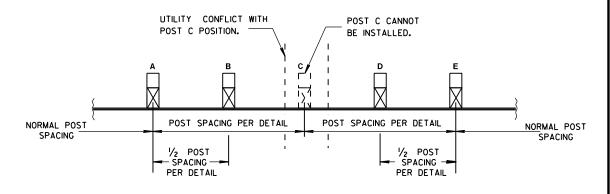


POST BOLT, SPLICE BOLT AND RECESS NUT



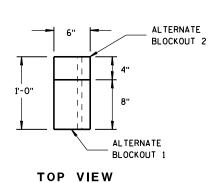
#### **PLAN VIEW**

## **BEAM LAPPING DETAIL**



# POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

## ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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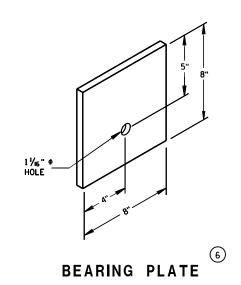
# SECTION A-A SECTION B-B

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PLAN VIEW

### BILL OF MATERIALS

PART NO.	DESCRIPTION  MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
(3)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



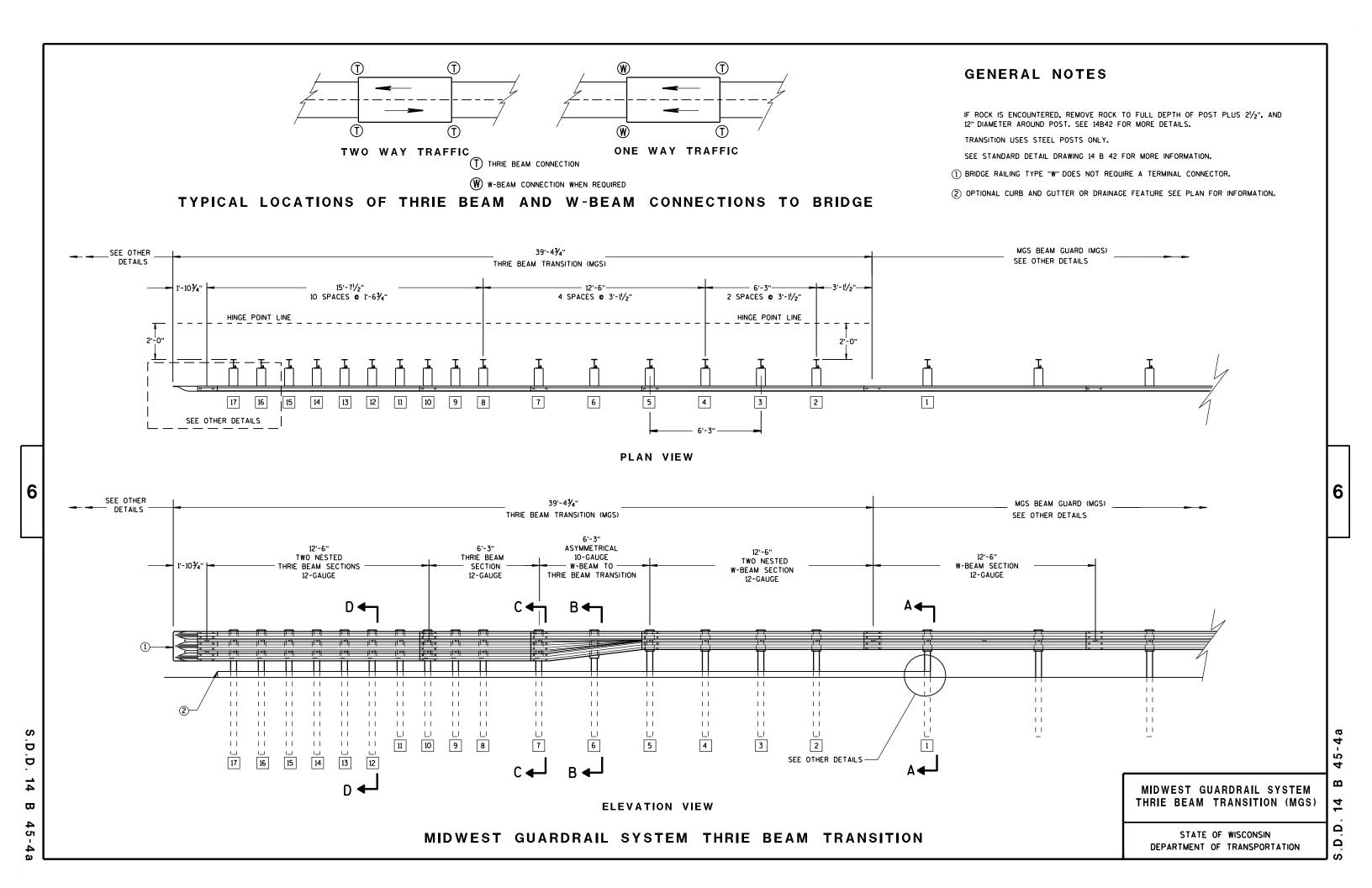
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

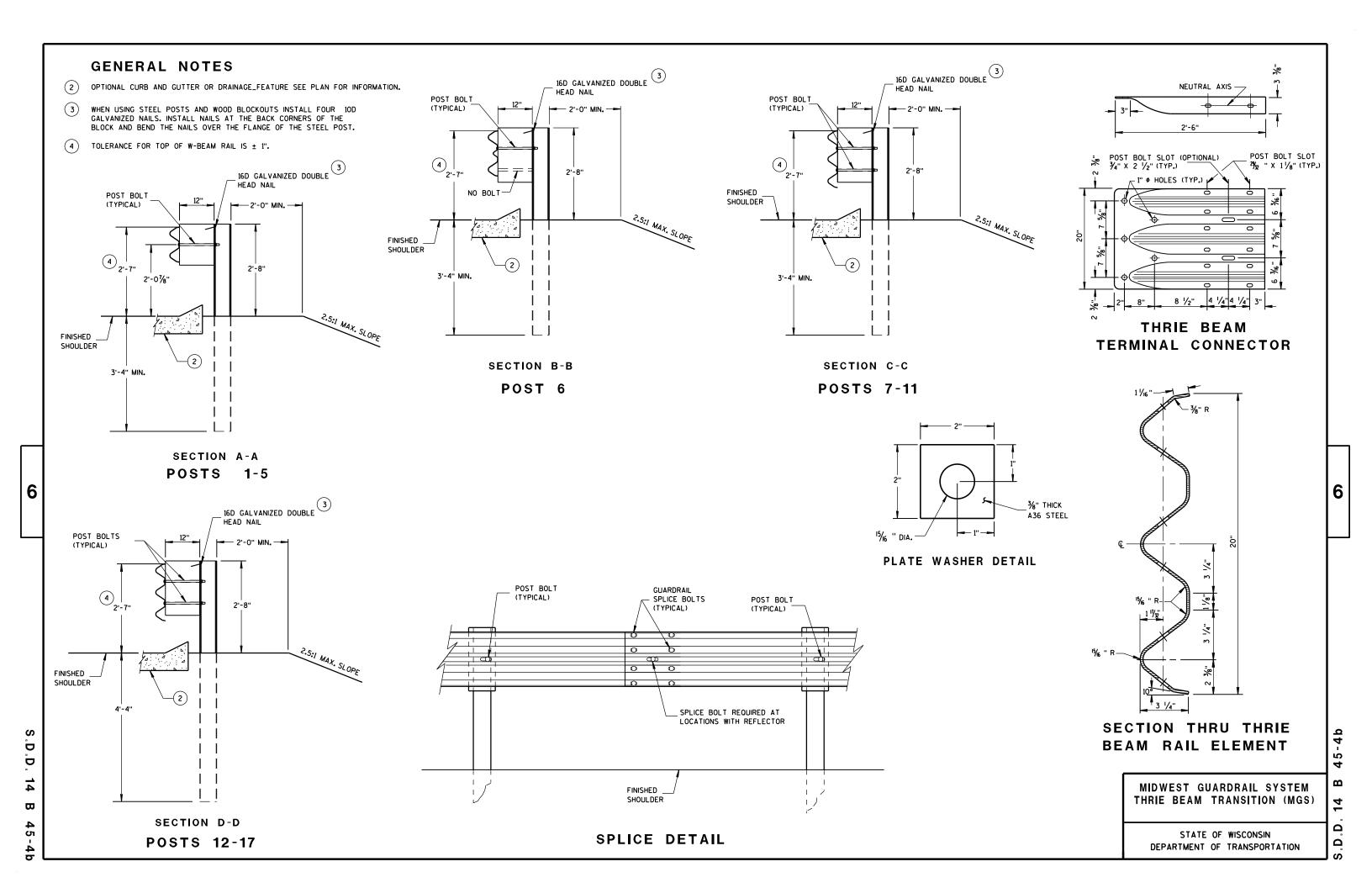
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

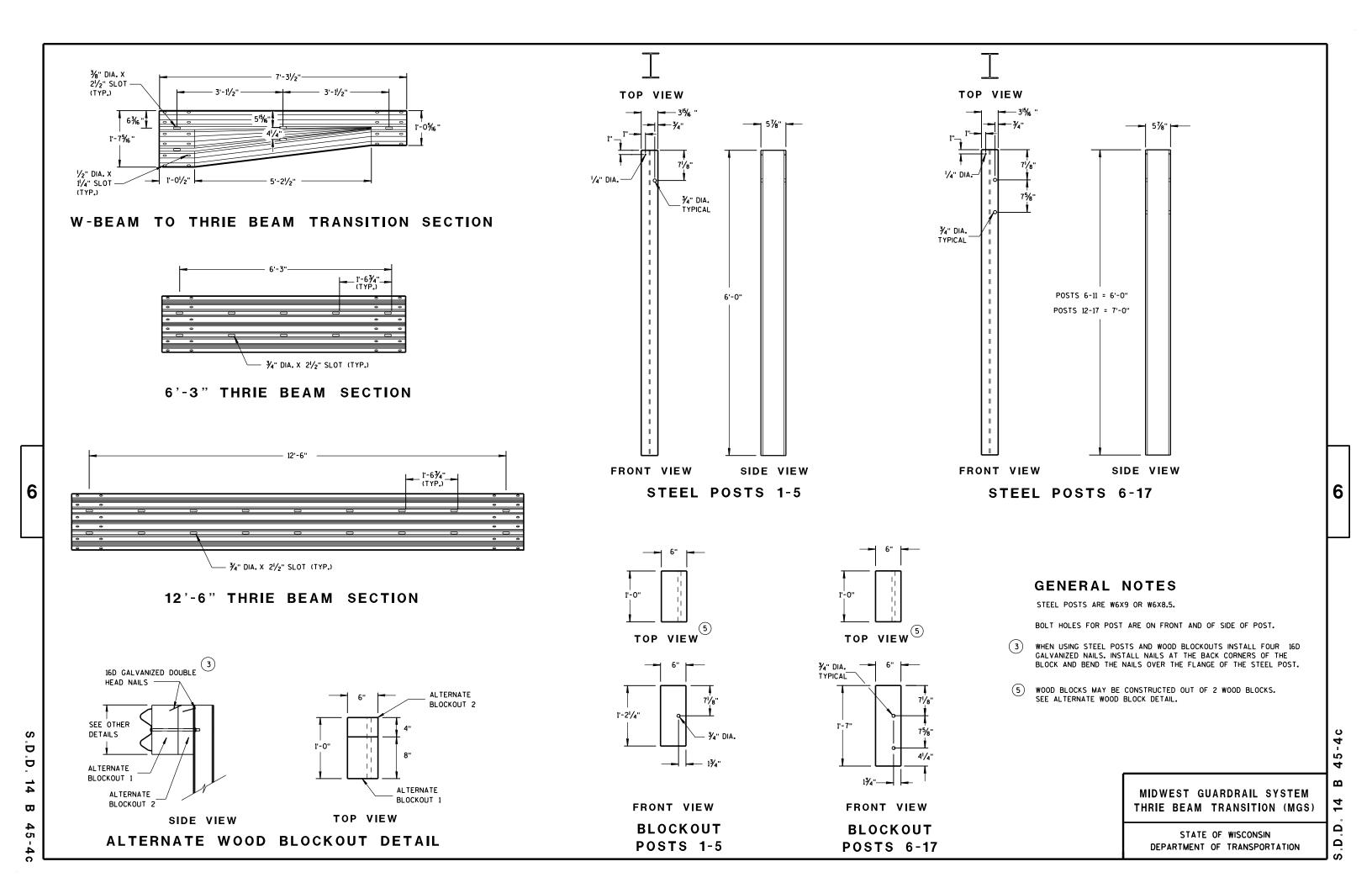
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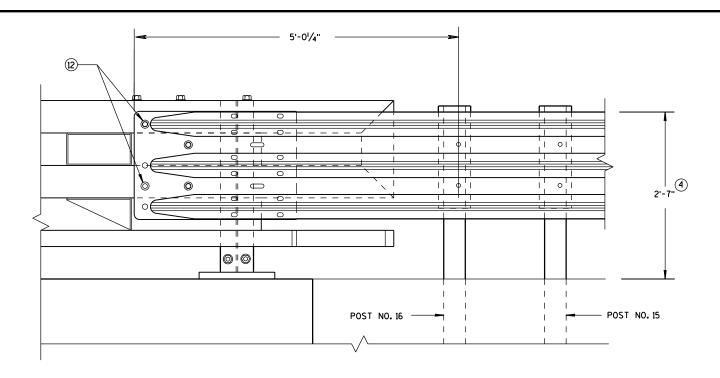
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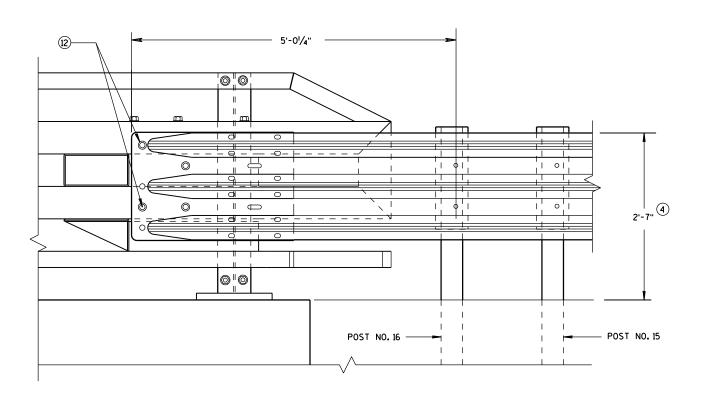






#### **ELEVATION OF DETAIL AT NY3 END POST**

THRIE BEAM RAIL ATTACHMENT



#### **ELEVATION OF DETAIL AT NY4 END POST**

THRIE BEAM RAIL ATTACHMENT

#### GENERAL NOTES

- 4 TOLERANCE FOR TOP OF BEAM IS ± 1".
- (12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) 6

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg June, 2015 DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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# ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



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

SEE SDD 15C2-SHEET "a" FOR LEGEND

#### **GENERAL NOTES**

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

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

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

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

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

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

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

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

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

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

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

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

#### BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

## **GENERAL NOTES**

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

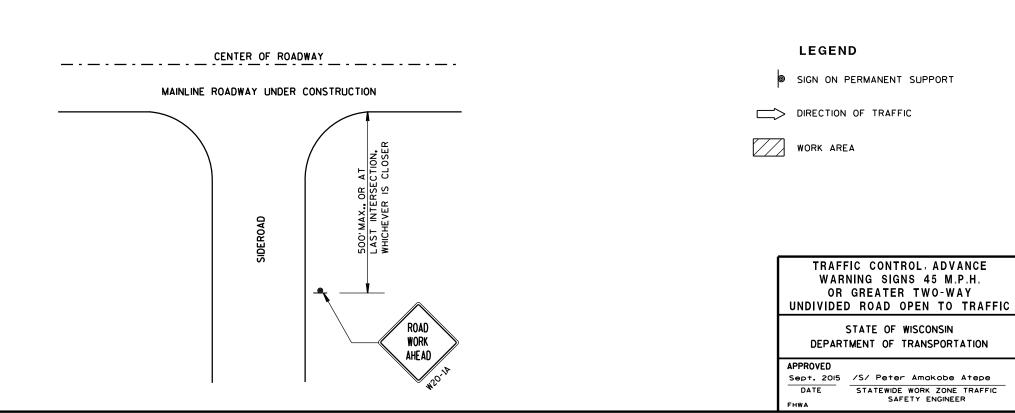
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

- \* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- \* PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



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SAFETY ENGINEER

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## **GENERAL NOTES**

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

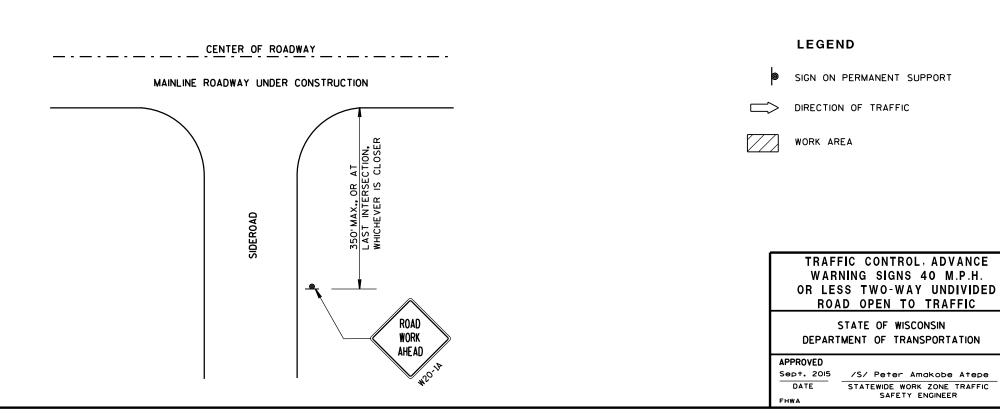
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

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

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

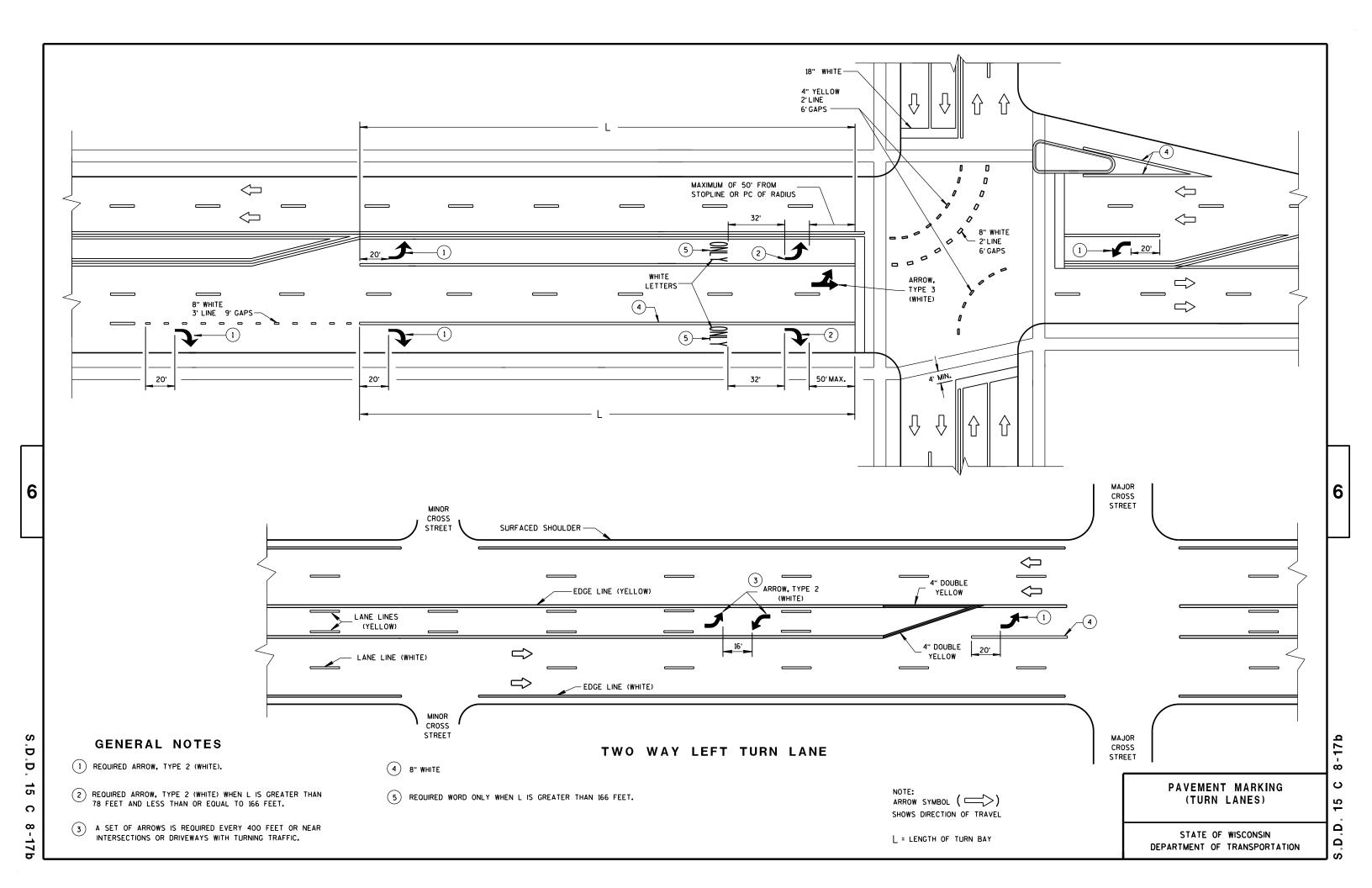


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## TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

### **GENERAL NOTES**

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- \* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.
- FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- 2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- 3 EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

December, 2016 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

FHWA

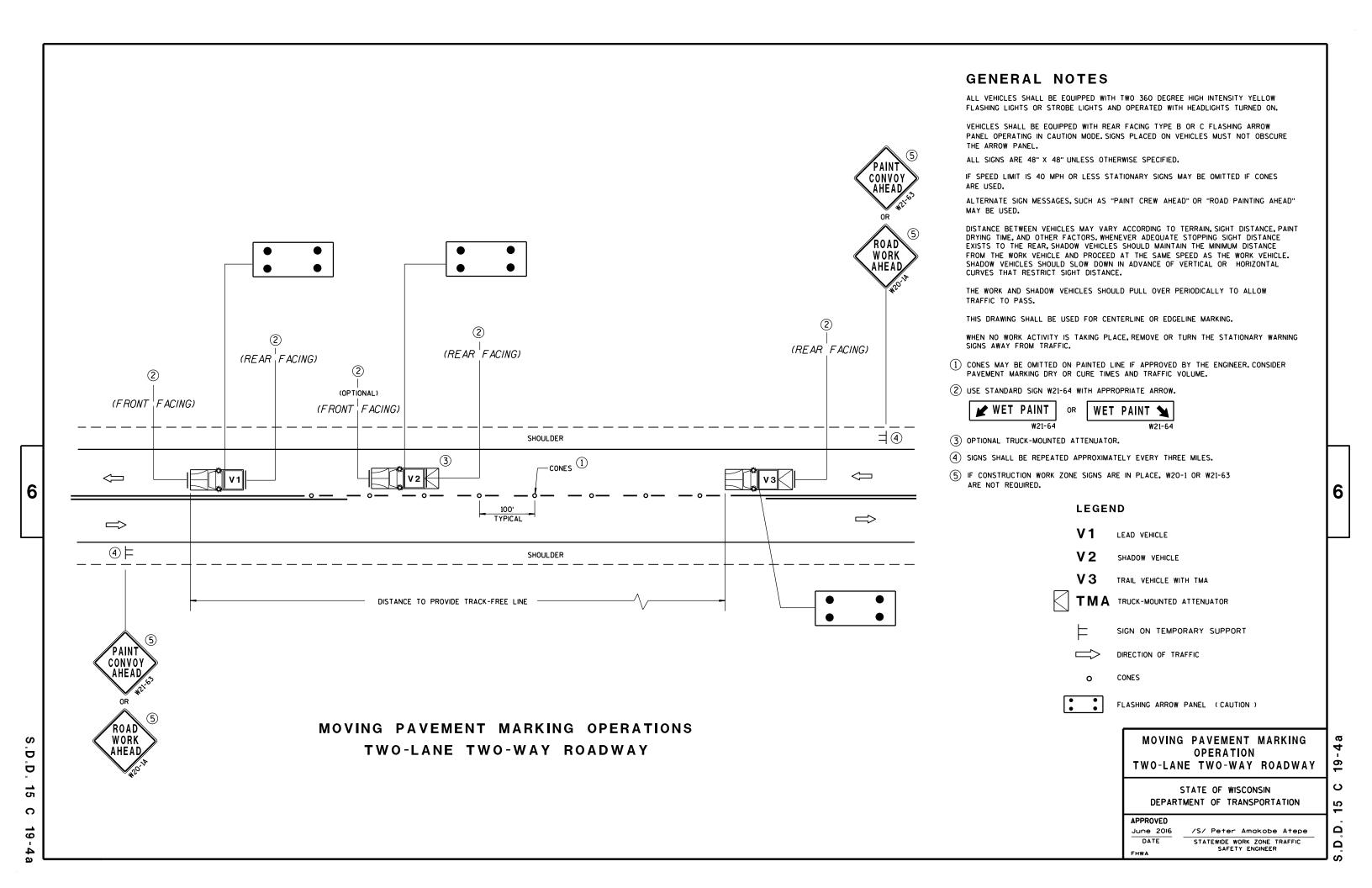
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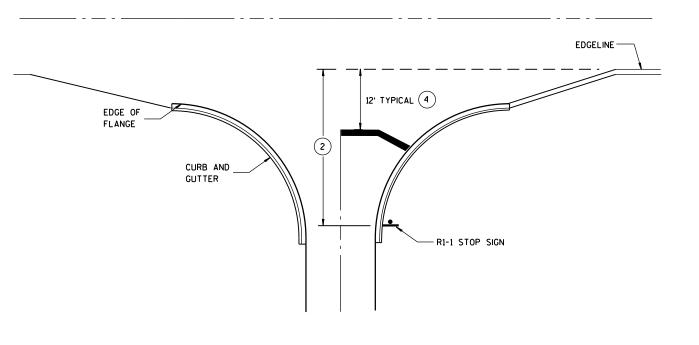
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8" CHANNELIZATION WHITE

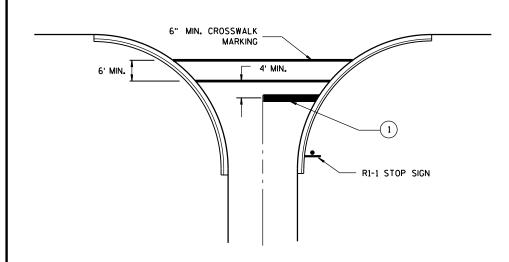
FLANGELINE (EXTENSION)

4" WHITE EDGELINE

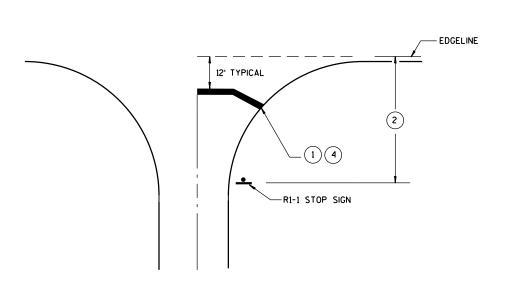
RI-1 STOP SIGN

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

## GENERAL NOTES

- 1 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- (2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
- (3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

## STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

.D.D. 15 C 33-2

6

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15

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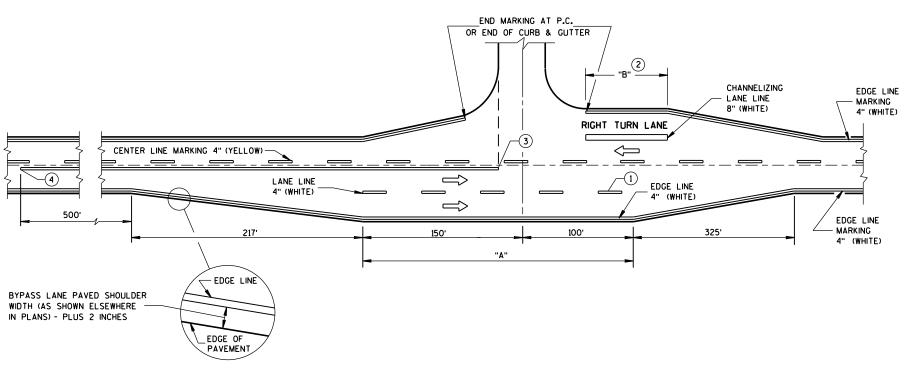
## MINOR INTERSECTION WITHOUT CURBS

## **GENERAL NOTES**

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

- 1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- 2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- (3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
- (4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL ( >> ) SHOWS DIRECTION OF TRAVEL



## MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

**PAVEMENT MARKING** (INTERSECTIONS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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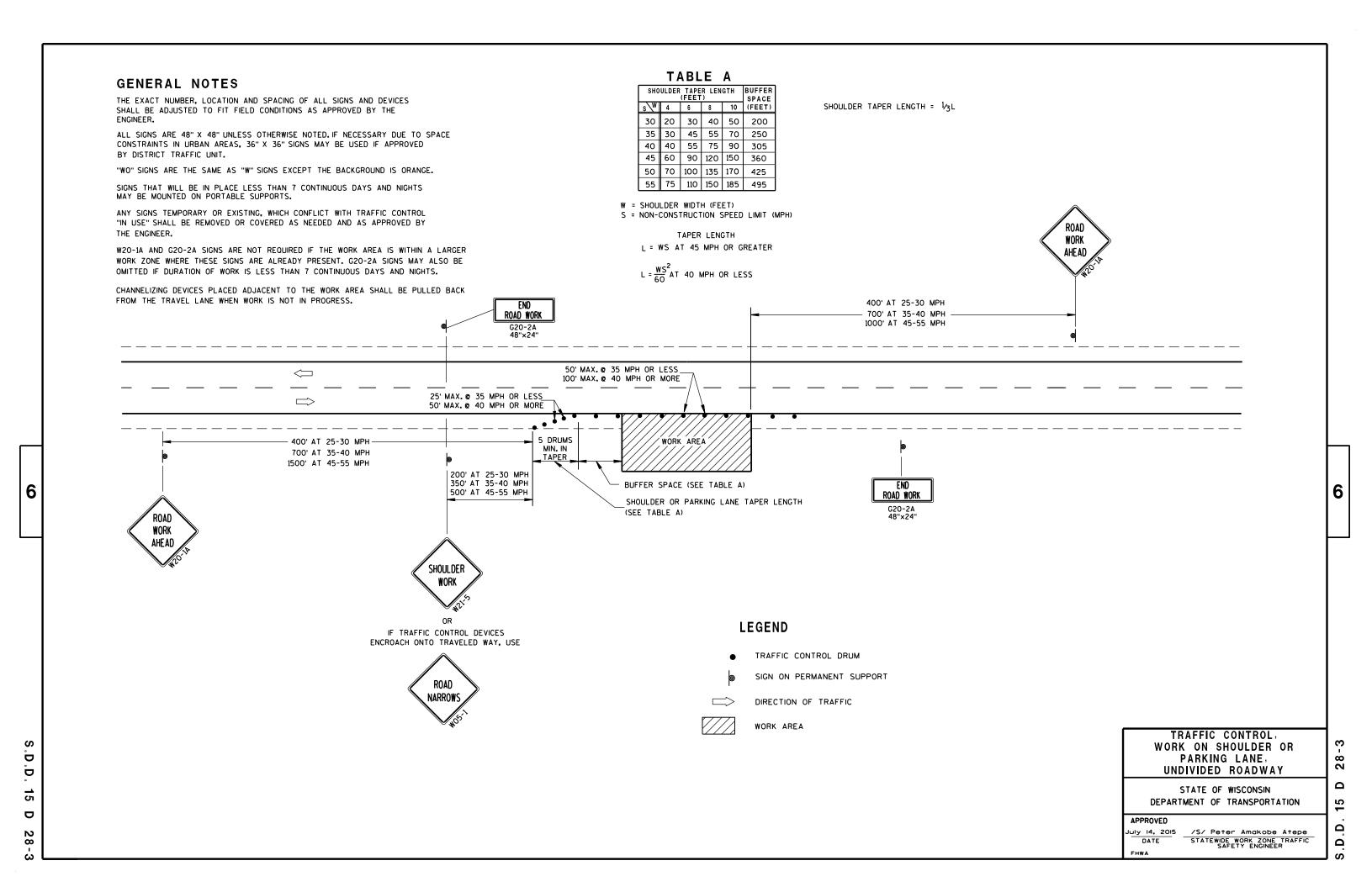
35-1a

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5-1a

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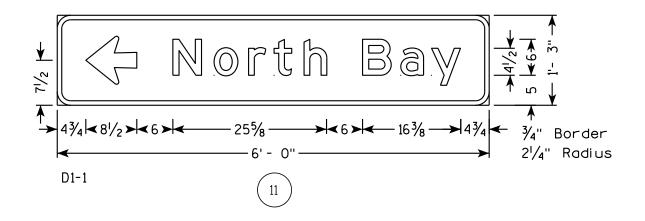
Ω

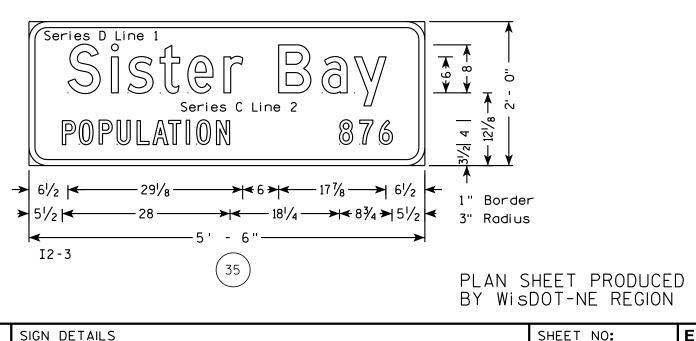


- 1. All Signs Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - GREEN Message - WHITE

3. Message Series - E except as Shown





PROJECT NO:4150-17-71

HWY:STH 57

COUNTY: DOOR

PLOT SCALE : 16:1

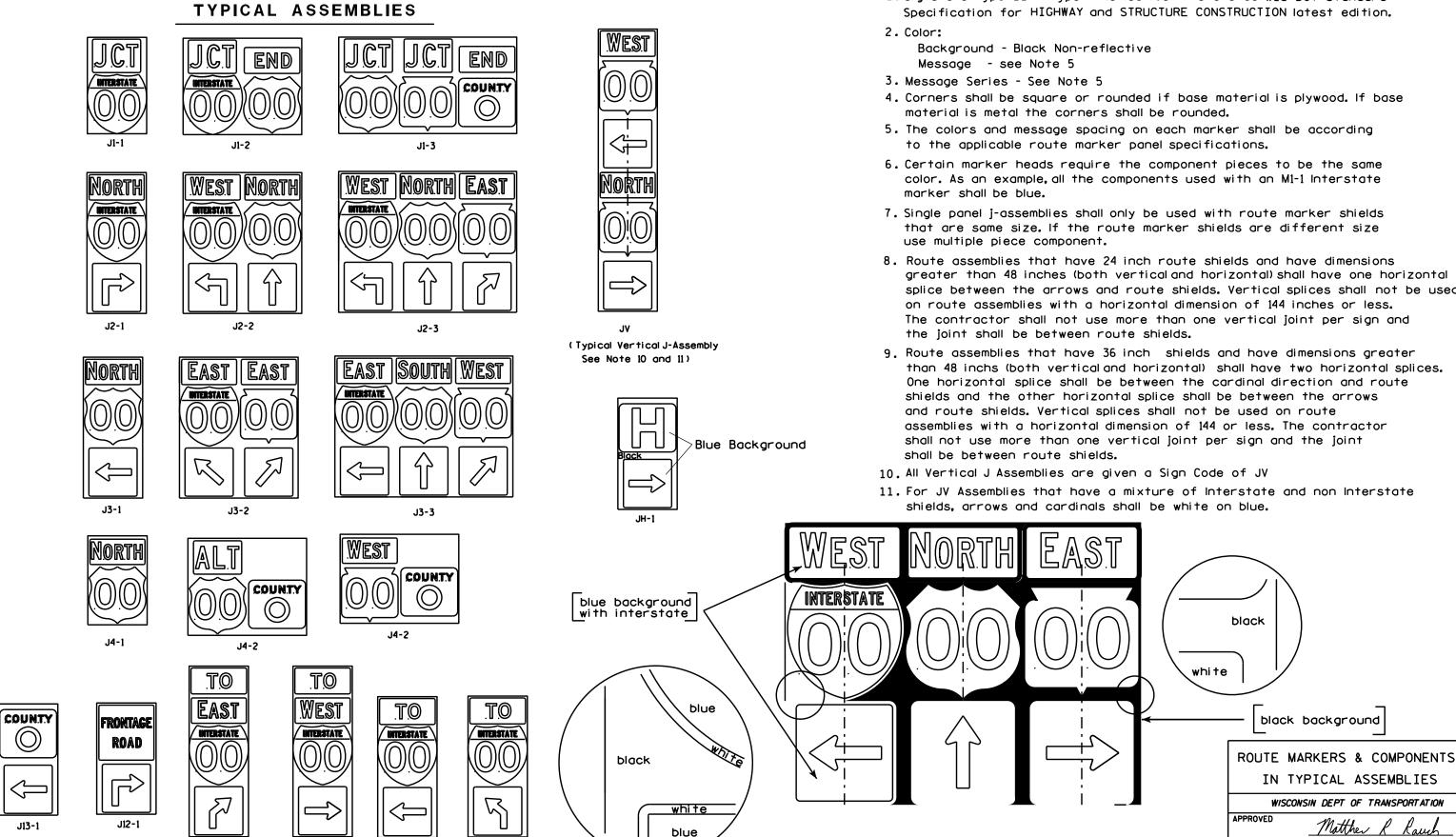
WISDOT/CADDS SHEET 42

FILE NAME: N:\pds\projects\Door\4150-17-00\TRAFFIC\Completed Signing Files\070101\_sd.dgn

PLOT DATE: 23-NOV-2016 11:21 PLOT BY : dotets PLOT NAME :

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

areater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. \_\_A2-15.8

DATE 2/06/14

SHEET NO:

## URBAN ARFA



RURAL AREA (See Note 2)



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



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

White Edgeline Location

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where

there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

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

PLOT BY : mscj9h

## GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is  $7'-3''(\pm)$  or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is  $5' - 3'' (\pm)$ .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3"  $(\pm)$ . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ( $\pm$ ).

## POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

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

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000



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

## GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- \*\*\* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

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

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

48" DIAMOND WARNING SIGN

HWY:

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

COUNTY:

Outside Edge

of Gravel

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

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

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

## POST EMBEDMENT DEPTH

of Gravel

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

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



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

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

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

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

PROJECT NO:

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

PLOT DATE . 11-416-2016 11:35

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

SHEET NO:

| | |



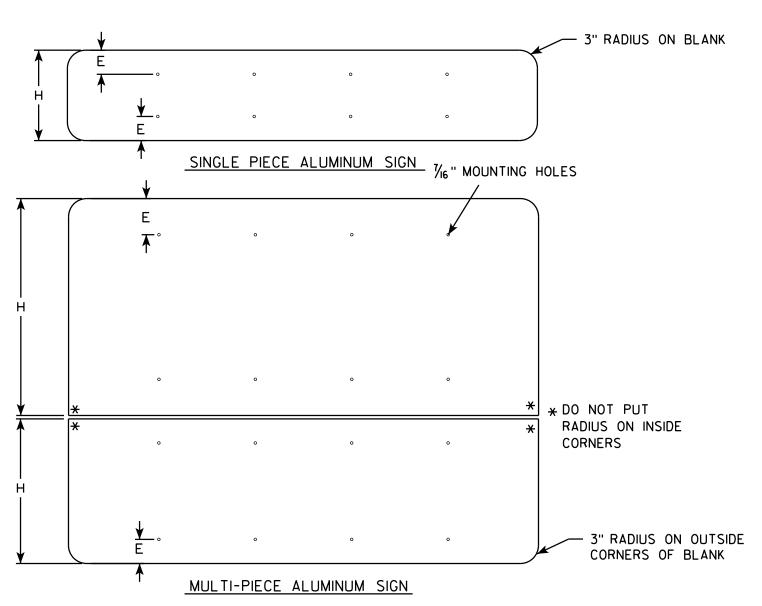
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

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

For State Traffic Engineer

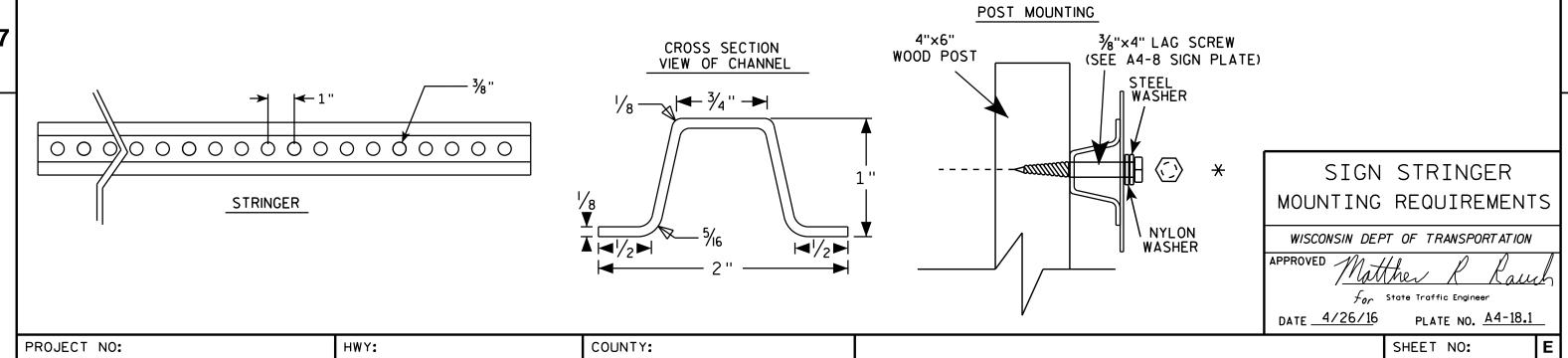




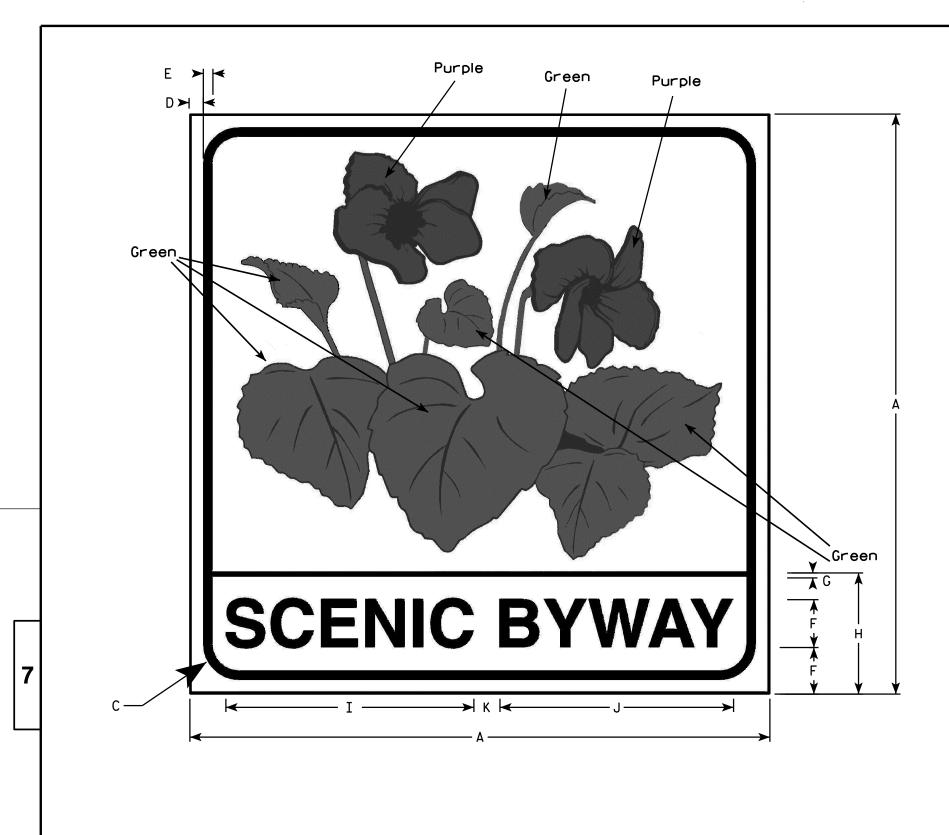
## GENERAL NOTES

- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE  $\frac{7}{16}$ " DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING				NTING OLES			
78"	72"	2	16''	15''	31''	47''	63"			
84''	72"	2	17''	161/2"	331/2"	501/2"	6 <b>7</b> 1/21			
90"	72"	2	18''	18''	36''	54''	72''			
96"	90"	2	19"	191/2"	381/2''	571/2"	761/21			
102"	90"	2	20"	21''	41''	61''	81''			
108''	90"	2	21''	221/21	' 43 <sup>l</sup> / <sub>2</sub> ''	641/2"	851/21	1		
114''	108''	3	15''	12''	2 <b>7</b> ''	42"	5 <b>7</b> "	<b>7</b> 2"	87"	102"
120''	108''	3	16''	12''	28''	44''	60"	76"	92"	108''
126''	108''	3	17''	12''	29"	46''	63"	80"	97"	114''
132"	126''	3	18''	12''	30"	48"	66"	84"	102"	120''
138''	126''	3	19''	12''	31''	50"	69"	88"	107''	126"
144''	126''	3	20"	12''	32"	52"	72"	92"	112''	132"



PLOT BY: mscj9h



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

Background - White

Message - Black Except as noted
Border of Leaves and Flowers is Black

- 3. Message Series Special
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Contact WisDOT with any questions.

2 3/8 10 1/4 9 5/8 1 1/8 5/8 2 1/4 4.0 24 1 1/2 .36 3 1/4 4 7 1/2 | 15 3/8 | 14 1/2 | 1 5/8 36 **7**⁄8 5/8 3 9.0 .81 5

COUNTY:

STANDARD SIGN D6-4S

WISCONSIN DEPT OF TRANSPORTATION

State Traffic Engineer
5/09 PLATE NO. D6-4S

SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :



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

2. Color:

Background - Blue Message - White - Type H Reflective

- 3. Message Series 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 & 3 are series D Line 2 is series C.

E→ D7-57 Metric equivalent for this sign is:

SIZE					
1					
Ω	1350	mm	Χ	900	mm
3					
4					
5					

STATE PROJECT NUMBER:

	•																												
	SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
ø.	1																												
	2	54	36	2 1/4		3/4	6	4	5 ½	4 1/4	3 1/2	4 3/4	17 %	21 1/2	8	5	1	12										13.5	1.22
5,6,	3																												
<b>2</b> 3.	4																												
- NO	5																												
57			•	•	•	•	•				•	•			•	•	•	•	•		•	•	•		•	•	•		

STANDARD SIGN D7-57

WISCONSIN DEPT OF TRANSPORTATION

DATE 1/10/02 PLATE NO. <u>D7-57.5</u>

SHEET NO:

FILE NAME : C:\Users\Projects\tr\_stdplate\D757.DGN

PLOT DATE: 22-JAN-2002 08:10

ORG DATE : 5/22/97

Originator : Don Kluever

WISDOT/CADDS SHEET 42

Ε

# 

HWY:

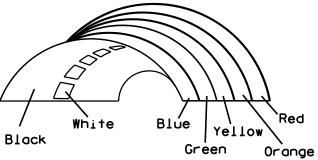
Background Colors of Symbol\*

Z F Z

A F X A

**₽** 4

\* VARIES



\*1/4" Black Border between each color of rainbow and border of rainbow

#### 

COUNTY:

NOTES

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

Background - White Message - (See Note 5)

- 3. Message Series (See Note 6)
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Border Blue

Line 1 - Red

Line 2 - Black

Line 3-5 - Blue

6. Line 1 - Dutch 8011L

Line 2 - Series E

Line 3-5 - Series C

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

STANDARD SIGN I55-56

For State Traffic Engineer

DATE 4/27/11 PLATE NO. 15!

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\I5556.DGN

PROJECT NO:

PLOT DATE: 27-APR-2011 10:05

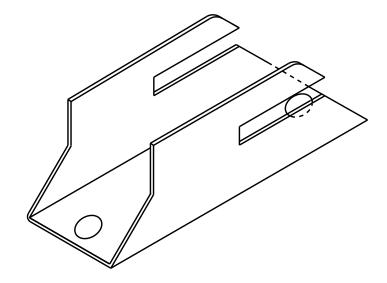
PLOT BY: mscj9h

PLOT NAME :

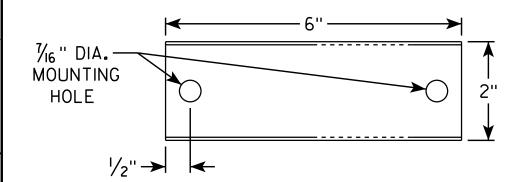
PLOT SCALE: 7.945391:1.000000

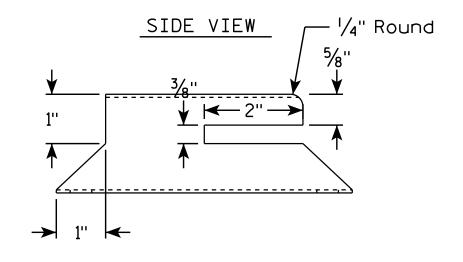
945391:1.000000 WISDOT/CADDS SHEET 42

## ISOMETRIC VIEW



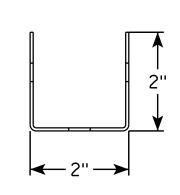
## TOP VIEW





HWY:

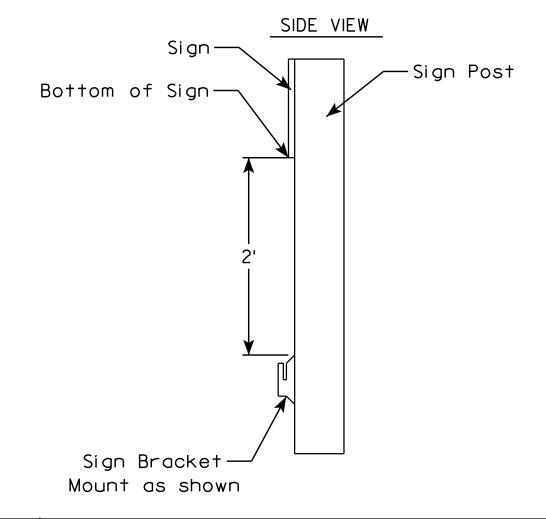
## END VIEW



COUNTY:

## NOTES

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



SHEET NO:

PROJECT NO:

PLOT BY : mscj9h

DATE 4/26/16

PLATE NO.155-56B.2

ROLLUP SIGN BRACKET

155-56B

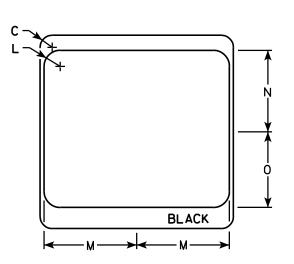
WISCONSIN DEPT OF TRANSPORTATION

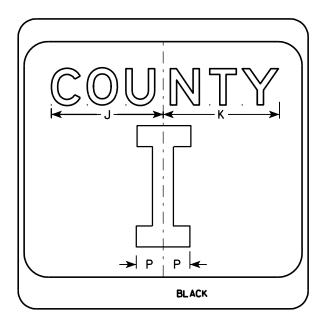
- 1. Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

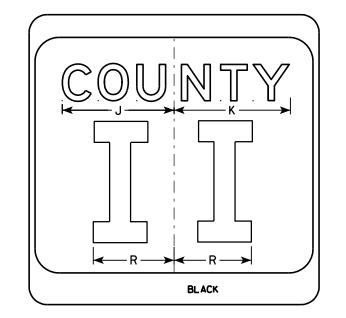
Background - White & Black - See Note 7 Message - Black

- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter. Message Series D for 2 letters unless message is too big then Series C. Message Series C for 3 letters unless message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

Background - Type H Reflective Detour or temporary Signs Background - Reflective







SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 %	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 5/8	5 %	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 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 %	5 %	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

APPROVED

FerState Traffic Engineer PLATE NO. M1-5A.8 DATE 9/27/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\M15A.DGN

PROJECT NO:

**BLACK** 

HWY:

M1-5A

PLOT DATE: 29-SEP-2011 11:25

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 5.959043:1.000000

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White & Black - See Note 6 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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- 6. Permanent Signs Background - Type H Reflective Detour or temporary Signs Background - Reflective

	BLACK  BLACK
Metric equivalent for this sign is:	<b>&gt;</b>

HWY:

SIZE 600 mm X 600 mm 900 mm X 900 mm 900 mm X 900 mm 900 mm X 900 mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1																												ļ
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 %	11 ½	1	1 %	11 1/4	21 1/8											4.0	<b>.</b> 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	<b>.</b> 81

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 3/20/02 PLATE NO. M1-6.9

SHEET NO:

FILE NAME : C:\Users\Projects\tr\_stdplate\M16.DGN

PLOT DATE: 13-OCT-2005 14:55

PLOT BY : DITJPH

PLOT NAME :

PLOT SCALE : 6.715871:1.000000

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

2. Color:

Background - Brown Message - White - Type H Reflective

- 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.

G → N ←0→P||P|←0→ N ← Ι  $\overline{\uparrow}$ J J M1 - 86

SIZE

2

3

4

Α

18

PROJECT NO:

Metric equivalent for this sign is:

SIZE					
1					
2	450	mm	Χ	900	mm
3					
4					
5					

В

36

4 3/8 | 1 3/4 | 2 5/8

COUNTY:

APPROVED

M1-86 WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

SHEET NO:

DATE 1/30/02

PLATE NO. M1-86.3

FILE NAME: C:\Users\Projects\tr\_stdplate\M186.DGN

С

1 1/8

D

3/8

Ε

G

2

HWY:

4

13 3/4 2 1/2 1 5/8

7 1/4

PLOT DATE: 13-OCT-2005 15:31

1/4

3/4

5 1/8 2 1/8

PLOT BY : DITJPH

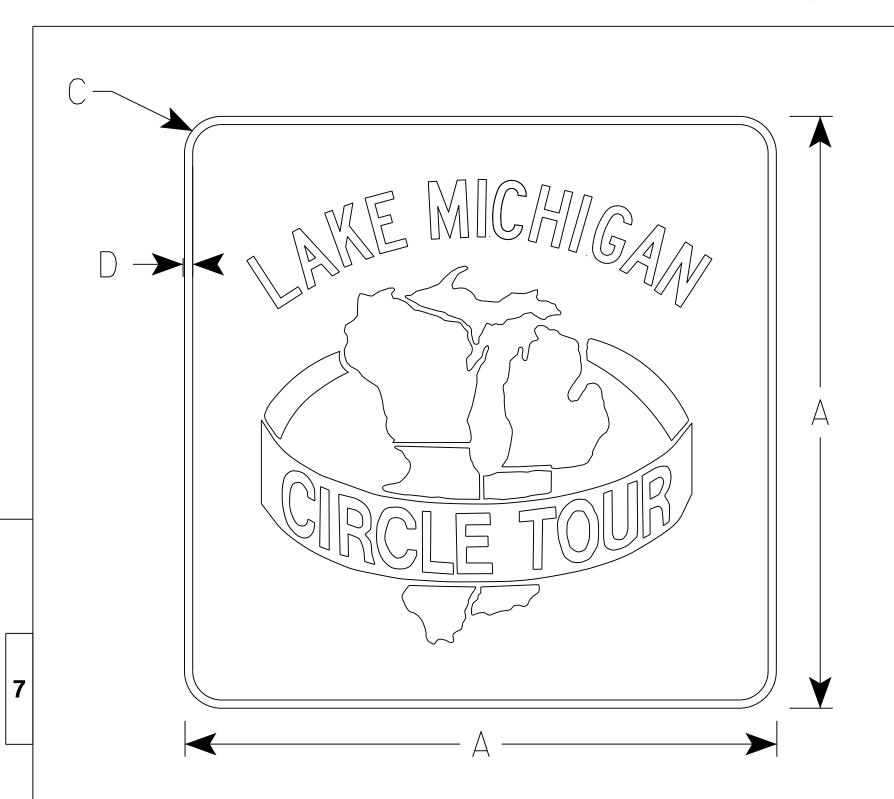
PLOT NAME :

PLOT SCALE : 5.960833:1.000000

Area sq. ft.

4.5

.41



HWY:

## NOTES

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

Background - Green Message - White - Graphics - White Circle Tour Message is Green

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

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

COUNTY:

STANDARD SIGN M1 - 93

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

Ε

PROJECT NO:

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

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background White

Message - Black

MB2-1 Background - Blue

Message - White

MK2-1 Background - Green

Message - White

MM2-1 Background - White

Message - Green

MN2-1 Background - Brown

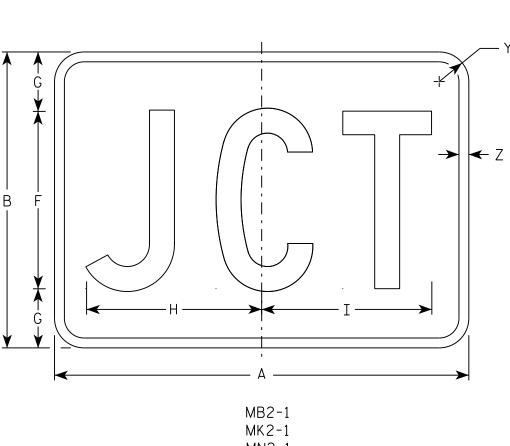
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Υ	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8	8 %																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch  $f_{or}$  State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M21 DGN

PROJECT NO:

M2-1

HWY:

MM2-1

MP2-1

PLOT DATE . 01-DEC-2015 17:54

PLOT BY . \$\$ Diotuser \$\$ PLOT NAME :

PLOT SCALE • 4 864603•1 000000







MP3-1









HWY:



## NOTES

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

Background - See note 5 Message - See note 5

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

5. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

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

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

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

Ε

SHEET NO:

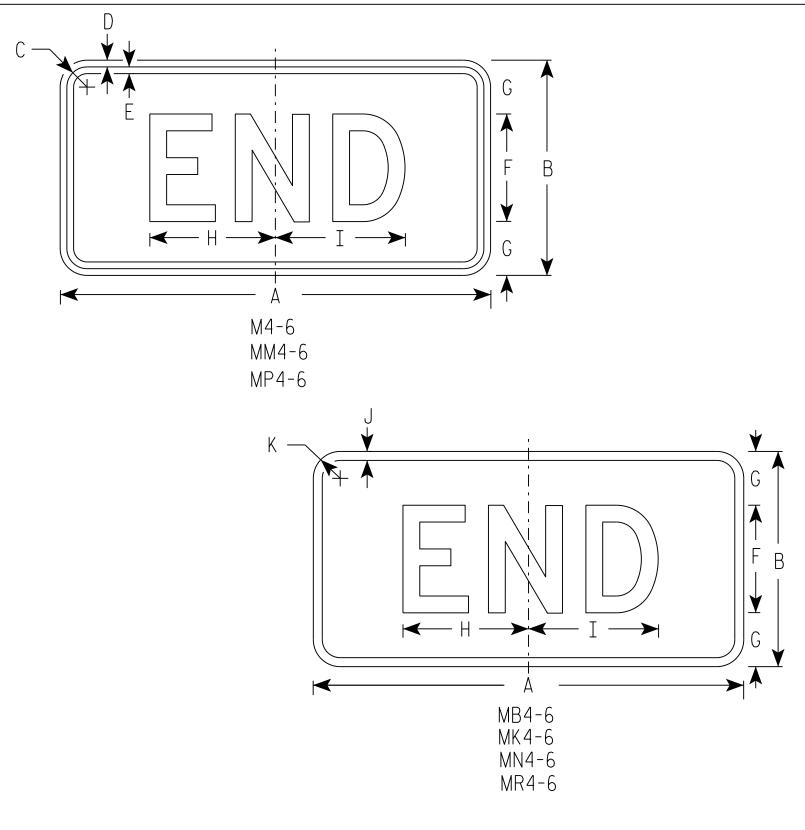
FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

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

PLOT SCALE . 11 675051.1 000000



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

Background - See note 5 Message - See note 5

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M4-6 Background White

Message - Black

MB4-6 Background - Blue

Message - White

MK4-6 Background - Green

Message - White

MM4-6 Background - White

Message - Green

MN4-6 Background - Brown

Message - White

MP4-6 Background - White

Message - Blue

MR4-6 Background - Brown

Message - Yellow

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
1																											
2 2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3 3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
4 3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
5 3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5

STANDARD SIGN M4 - 6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Kaus For State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-7.9

SHEET NO:

FILE NAME . C.\CAFfiles\Projects\tr stdblote\M46 DGN

PLOT DATE . 01-DEC-2015 17.55

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

PLOT SCALE . 5 351066.1 000000

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

Background - Orange Message - Black

- 3. 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.

) A G	
<del>                                    </del>	;     B 
<b>→</b> G <b>→</b>	

Α С E F G H I J S Х Z D 0 10 10 1/4 1 1/8 3/8 3/8 24 2.0 3 36 1 1/8 3/8 1/2 4 1/2 14 5/8 14 1/2 4.5 4 5

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/10/10 PLATE NO. M4-8.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\M48.DGN

PROJECT NO:

HWY:

PLOT DATE: 10-NOV-2010 13:18

PLOT BY : ditjph

PLOT SCALE : 4.767

PLOT NAME :

PLOT SCALE: 4.767233:1.000000

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

2. Color:

Background - Orange Message - Black

- 3. 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.

 $D \longrightarrow$ Н M4-8A

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	w	Х	Y	Z	Area sq. ft.
$\parallel 1 \parallel$																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5				·	·						·																

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther

For State Traffic Engineer DATE 3/9/11

PLATE NO. M4-8A.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\M48A.DGN

HWY:

PROJECT NO:

PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

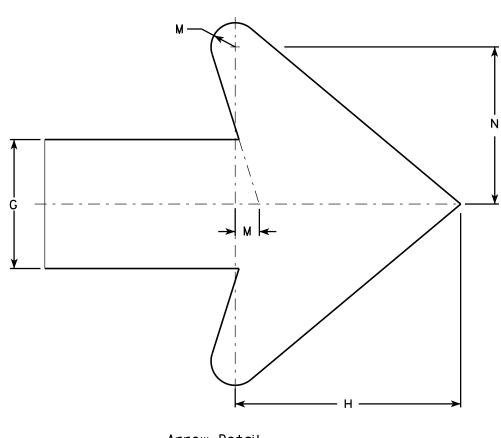
PLOT NAME :

PLOT SCALE: 3.972696:1.000000

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

Background - Orange Message - Black

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



Arrow Detail

PLOT NAME :

W X	Y Z Arec
	5.0
	5.0
	12.0
	12.0

COUNTY:

M4-9R

STANDARD SIGN M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\M49R.DGN

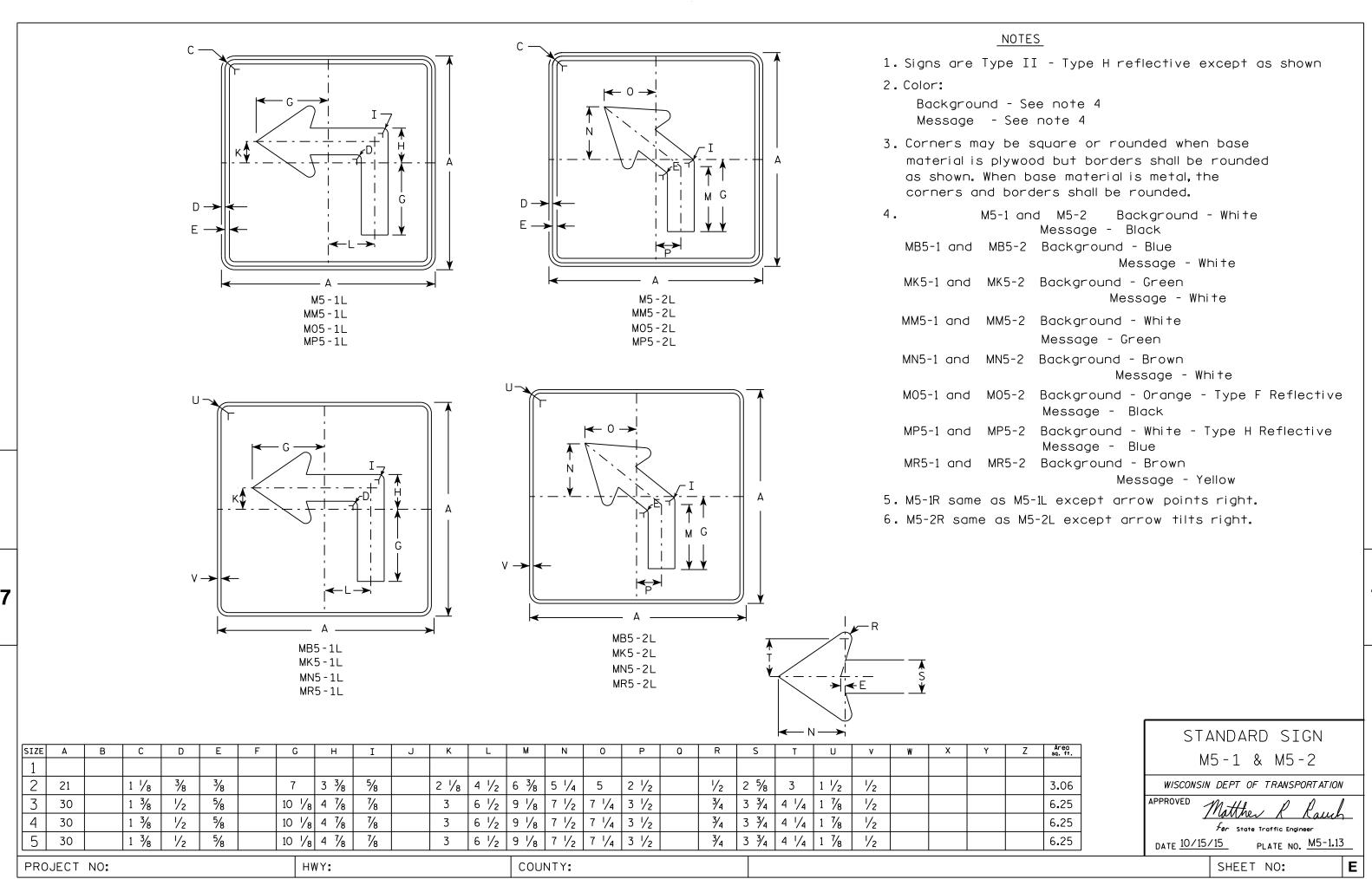
HWY:

PROJECT NO:

PLOT DATE: 09-MAR-2011 11:17

PLOT BY: mscj9h

PLOT SCALE: 5.959043:1.000000

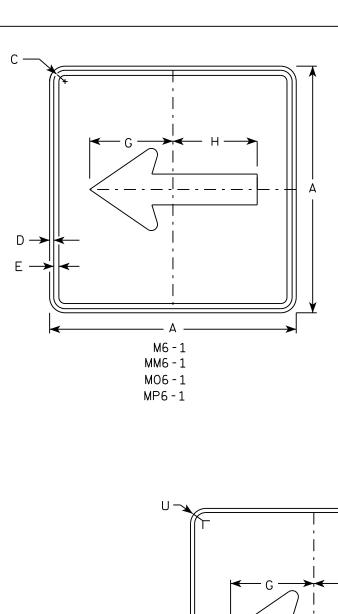


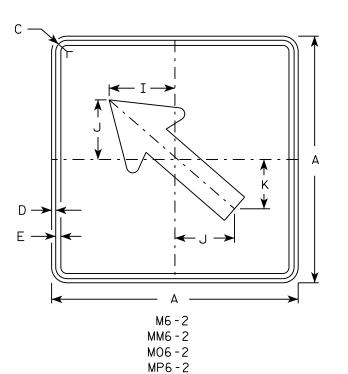
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

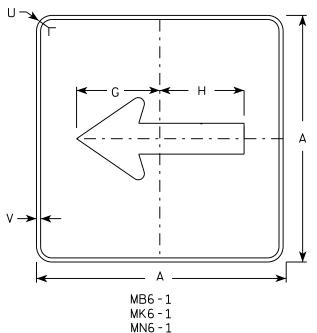
PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

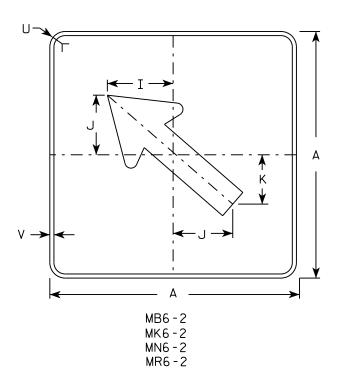






MR6-1

HWY:



## NOTES

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

Background - See note 4 Message - See note 4

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

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

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

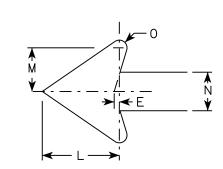
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	: Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3%		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5%		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

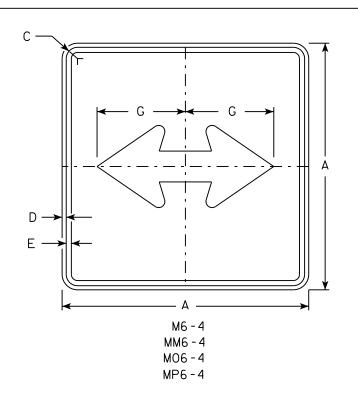
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

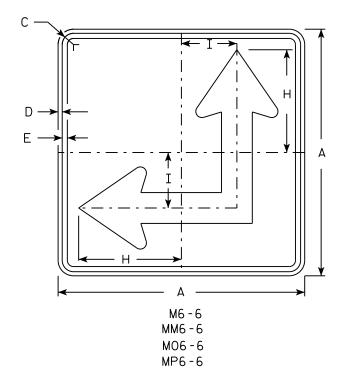
PROJECT NO:

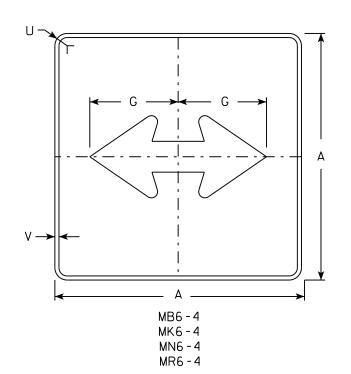
PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

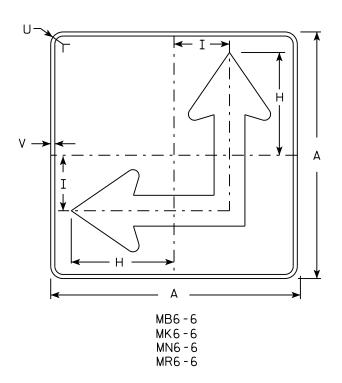
PLOT SCALE . 11 675051.1 000000







HWY:



## NOTES

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

Background - See Note 4 Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-4 and M6-6 Background White Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

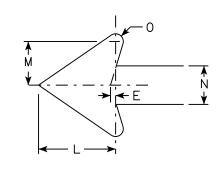
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

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

PLOT SCALE . 11 675051.1 000000

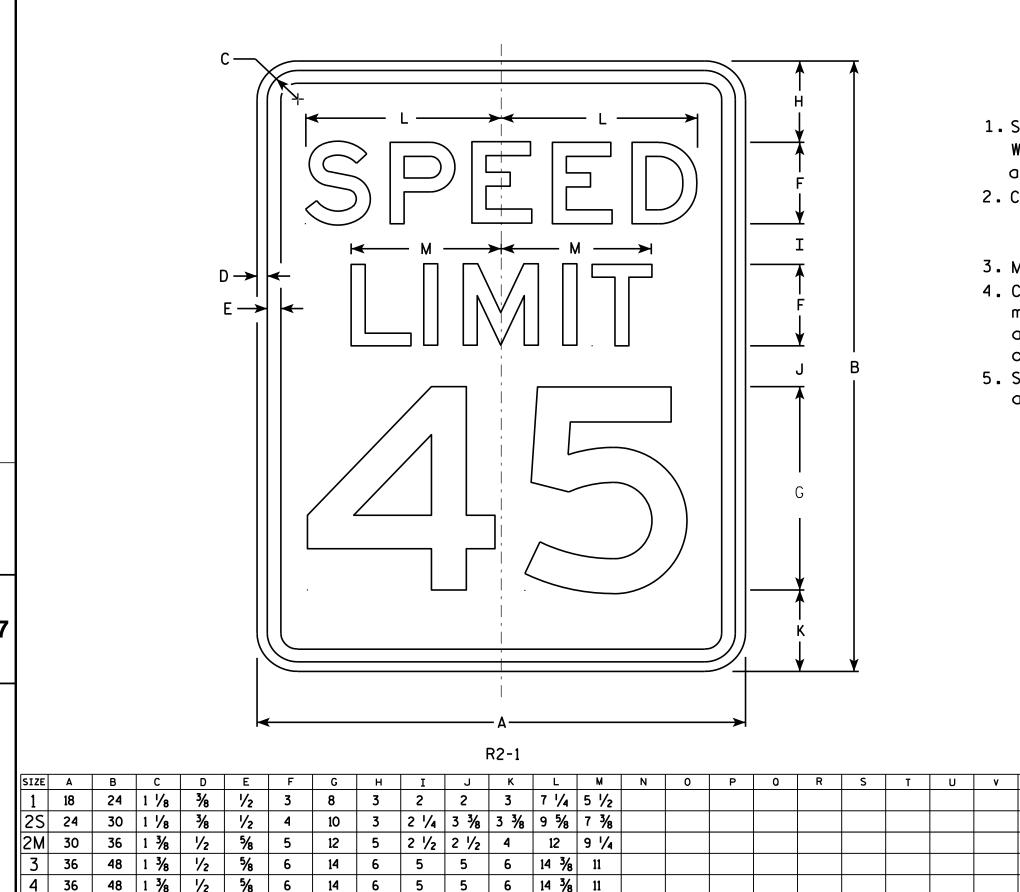
PROJECT NO:

NOTES 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 2. Color: Background - Red Message - White 3. Message Series - C R1-1 SIZE A STANDARD SIGN 30 5/8 10 12 1/2 45° 12 3/4 5.18 2S 30 5/8 12 1/2 45° 12 3/4 10 5.18 R1-1 2M 36 3/4 12 15 45° 15 % 7.46 3/4 15 3/8 12 45° 36 15 7.46 WISCONSIN DEPT OF TRANSPORTATION 45° 20 1/2 48 16 20 13.25 APPROVED Matthew & Kauch 5 48 16 20 45° 20 1/2 13.25 3/8 7 3/4 45° 7 3/4 1.86 18 6 For State Traffic Engineer 12 1/4 4 45° 5 1/8 0.78 DATE <u>11/12/15</u> PLATE NO. \_\_\_\_\_R1-1.13 COUNTY: SHEET NO: PROJECT NO: HWY: PLOT SCALE • 4 378143•1 000000

FILE NAME · C·\CAFfiles\Projects\tr stdplote\R11 DGN

PLOT DATE . 01-DEC-2015 18:07

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



4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

# NOTES

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

Background - White Message - Black

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

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

Matther R Raus For State Traffic Engineer PLATE NO. R2-1.13

DATE <u>5/26/1</u>0

SHEET NO:

2 1/4

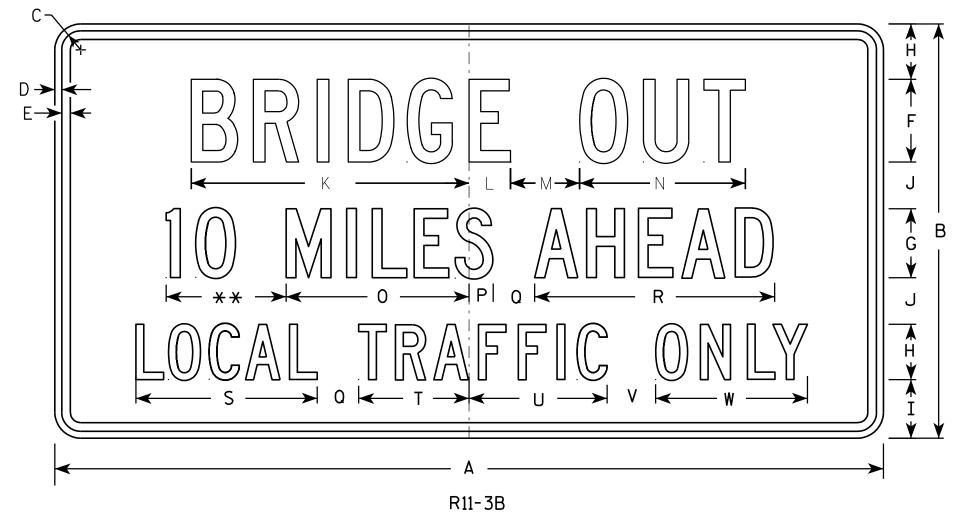
60

5

48

PROJECT NO:

PLOT NAME :



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

Background - White Message - Black

- 3. Message Series 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 and optically adjust spacing to achieve proper balance.

\*\* See Note 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	J	٧	₩	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 ¾	8	4 3/4	6 1/2	2	6 ¾				4.5
25	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 ½	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 %	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Lauch

for State Traffic Engineer

TE 4/1/11 PLATE NO. R11-3B.2

DATE 4/1/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R113B.DGN

PROJECT NO:

HWY:

PLOT DATE: 01-APR-2011 14:17

PLOT NAME :

PLOT BY: mscj9h

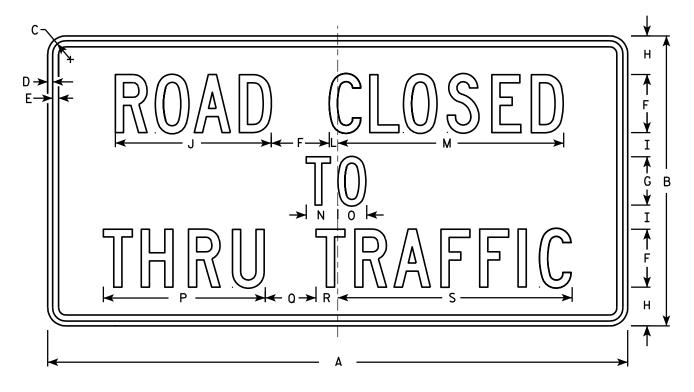
PLOT SCALE: 6.952219:1.000000

WISDOT/CADDS SHEET 42

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

Background - White Message - Black

- 3. Message Series 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.



R11-4

SIZE	Α	В	С	D	E	F	G	Η	I	J	K	L	М	Z	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		<b>7</b> /8	23 ¾	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	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

DATE 4/1/11 PLATE NO. R11-4.3

SHEET NO:

PROJECT NO: FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R114.DGN HWY:

PLOT DATE: 01-APR-2011 14:11

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

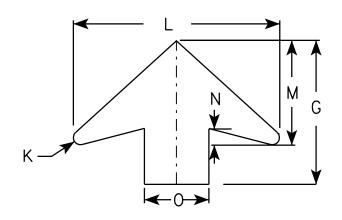
# 00 S3-1

# NOTES

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

Background - YELLOW-GREEN Message - BLACK except as noted Circles except PEDS- RED BACKGROUND

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.



RROW	DFTAII

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 ½	1/2	16	8	1 1/4	5	1 1/2		6 %	5 %	10 %							6.25
2	36		1 %	5/8	₹4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 %	6	1 1/8		7 1/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 1/8	20 1/8	8 %	8 3/4	<b>7</b> ⁄8	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	₹4	1	10	17 1/8	20 1/8	8 %	8 ¾	<b>1</b> / <sub>8</sub>	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer DATE <u>6/8/10</u>

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\S31.DGN

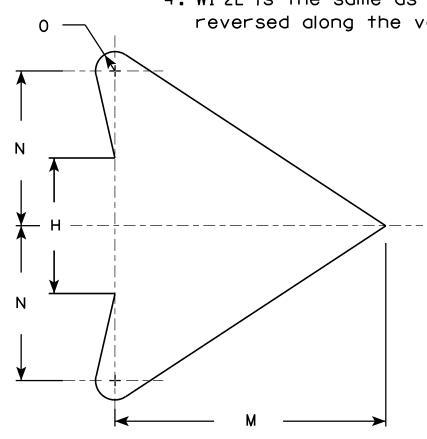
PROJECT NO:

PLATE NO. <u>\$3-1.6</u>

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



								W	1-2R													<u> </u>	11011	DLIA	<u></u>		
SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	v	W	×	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
25	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 %	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0
					•	·		•	•									•					•				•

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch For State Traffic Engineer

DATE <u>5/15/12</u>

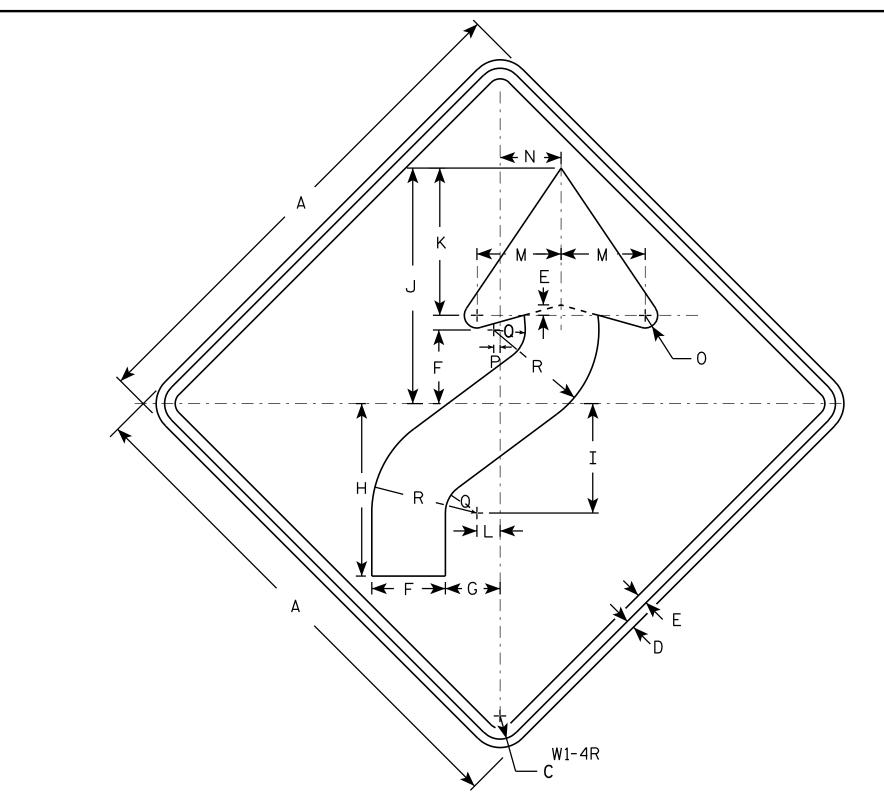
PLATE NO. W1-2.10

SHEET NO:

PROJECT NO:

**←** H →

HWY:



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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

3 1/2 2 5/8 8 1/4 5 1/4 11 1/4 5/8 1/4 1 1/2 5 24 1 1/8 4.0 25 3 5/8 3/4 3/8 1 1/8 6 1/4 30 4 3/8 3 1/4 10 1/4 6 1/2 14 8 3/4 1 3/8 6.25 36 12 3/8 7 1/8 16 1/8 10 1/2 1 5/8 4 1/2 1 1/2 2 1/4 7 1/2 9.0 3 12 3/8 7 1/8 16 1/8 10 1/2 1 5/8 36 5 1/4 4 1/2 | 1 1/2 2 1/4 7 1/2 9.0 4 36 1 % 5 1/4 | 12 3/8 | 7 3/8 | 16 3/8 | 10 1/2 | 1 5/8 4 1/2 1 2 1/4 7 1/2 1/2 9.0 5 48 5 1/4 16 1/2 10 1/2 22 1/2 14 2 1/4 6 1 1/4 16.0

STANDARD SIGN W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Raw
For State Traffic Engineer

SHEET NO:

DATE 5/17/12

PLATE NO. W1-4.11

HWY:

COUNTY:

PLOT DATE: 17-MAY-2012 13:20 PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 5.706180:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:

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

Background - Yellow Message - Black

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

c	
	G
K I	_ ¥ B
$\left[ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
W1-6	

SIZE		Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1		36	18	1 1/8	3⁄8	3/8		9	10	¾	5 %	4 3/4	2 3/8	14 %	29 1/4													4.5
2S	, 4	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	4	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	(	60	30	1 %	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	-	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	9	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

COUNTY:

STANDARD SIGN W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Ma

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

SHEET NO:

PROJECT NO:

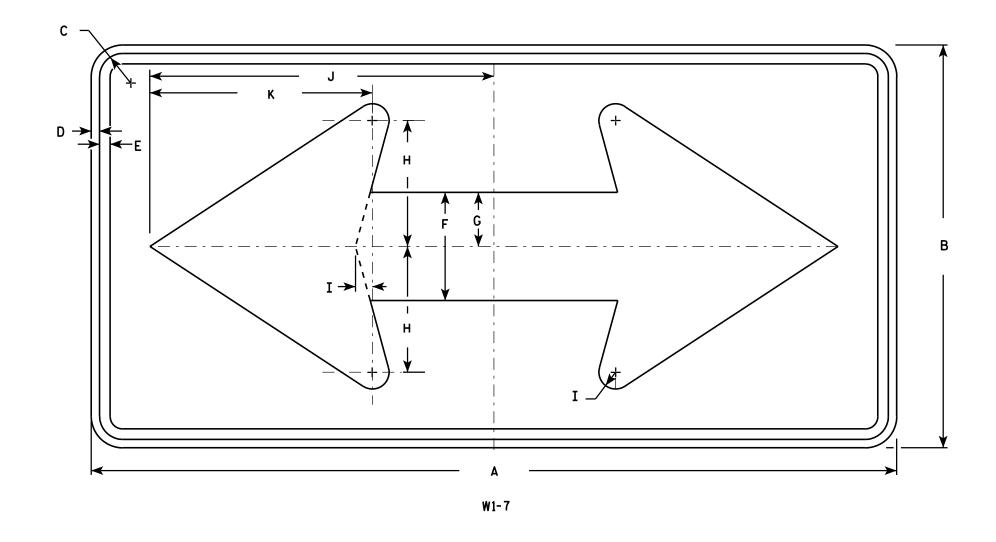
HWY:

PLOT NAME :

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

Background - Yellow Message - Black

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



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Area sq. ft.
1	36	18	1 1/8	3⁄8	1/2	5	2 1/2	5 ¾	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/3	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

COUNTY:

STANDARD SIGN W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W17.DGN

PROJECT NO:

HWY:

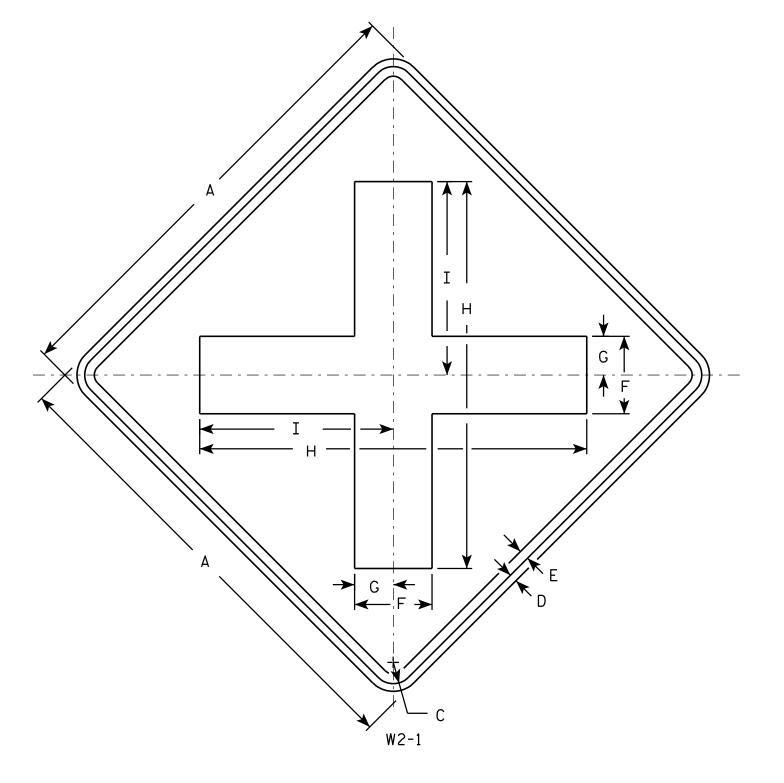
PLOT DATE: 07-JUN-2010 12:35

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 5.720679:1.000000

WISDOT/CADDS SHEET 42



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

Background - Yellow Message - Black

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

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Areo sq. ft.
1	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
25	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

COUNTY:

STANDARD SIGN W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch
For State Traffic Engineer

DATE 5/29/12

PLATE NO. W2-1.9

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W21.DGN

PROJECT NO:

HWY:

PLOT DATE: 29-MAY-2012 10:10

PLOT NAM

PLOT BY: mscsja

PLOT SCALE: 6.202372:1.000000

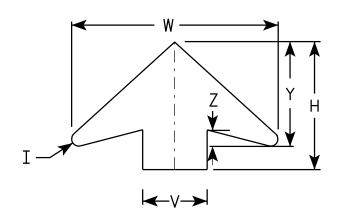
WISDOT/CADDS SHEET 42

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

  Background YELLOW\*

  Message BLACK
- 3. Message Series C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

\*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft
1																											
25	36		1 1/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
2M	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
3	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3∕8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	<b>1</b> /8	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3/8	12	8	25 %	3∕8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	<b>7</b> ⁄8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

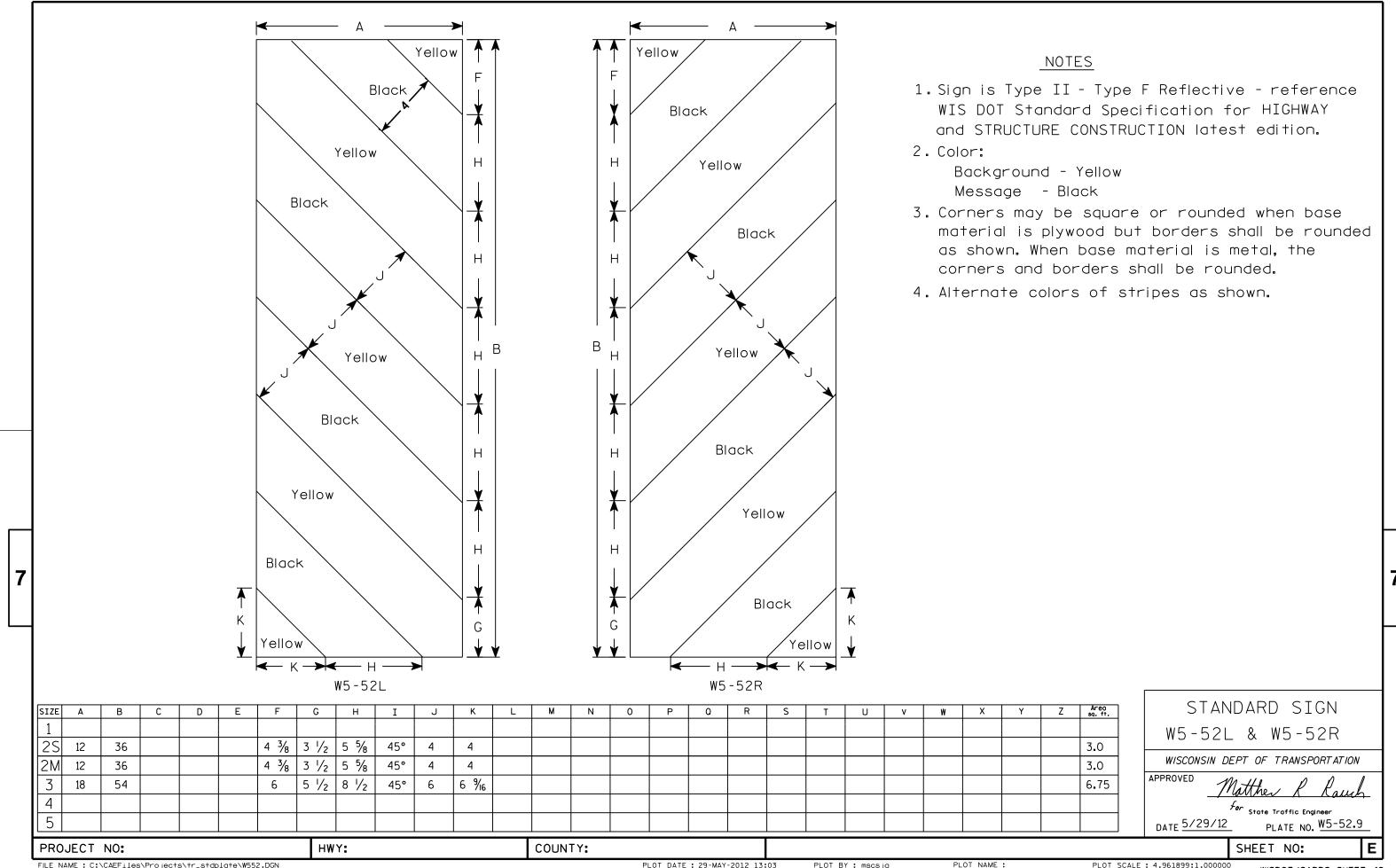
APPROVED

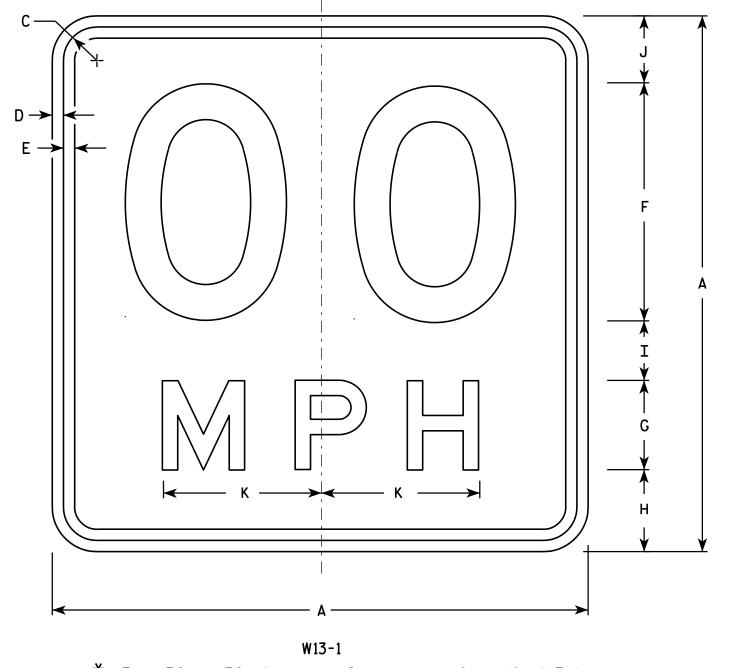
Matther R Rauch.

DATE 5/29/12 PLATE NO. W3-5.5

SHEET NO:

PROJECT NO:





 $\star$  For 30"  $\times$  30" Warning Signs, use 18"  $\times$  18" W13-1 signs. For 36"  $\times$  36" Warning Signs, use 24"  $\times$  24" W13-1 signs.

## NOTES

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

Background - Yellow Message - Black

PLOT NAME :

- 3. Message Series See Note 6
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 %																2.25
<b>*</b> 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 %																2.25
<b></b> ★ 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 %																4.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
			1									1				l .			<del></del>		ı		I.	I			
PROJE(	CT NO	) <b>:</b>					HW	Y:					COU	NTY:													

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Ram

 $f_{or}$  State Traffic Engineer S1/12 PLATE NO. W13-1.16

DATE 5/31/12

SHEET NO:



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

Background - Yellow Message - Black

- 3. Message Series See note 5
- 4. Corners and borders shall be rounded on all base materials for this sign.
- 5. Lines 1 and 2 are Series D. Line 3 is series C.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 ¾	12 3/4															5.56
2M																											
3																											
4																											
5																											
PRO	JECT	NO:					Н	WY:					COL	JNTY:													

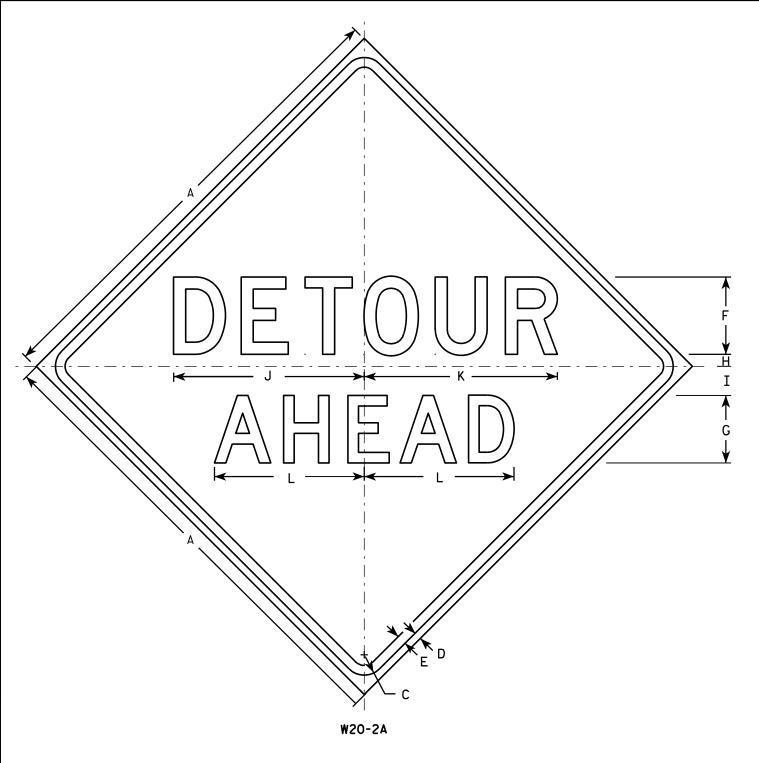
STANDARD SIGN W14-3

WISCONSIN DEPT OF TRANSPORTATION

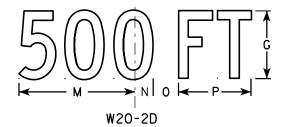
//U

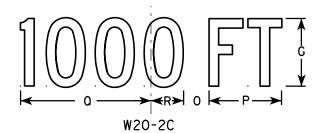
2/23/17 PLATE NO. W14-3.1

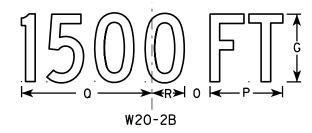
SHEET NO:

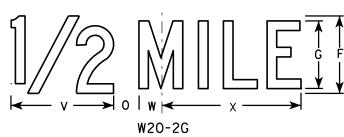


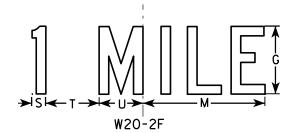
HWY:











PLOT BY: mscj9h

# **NOTES**

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

Background - Orange Message - Black

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

SIZE	. Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 1/8	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 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
3	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
4	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	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

COUNTY:

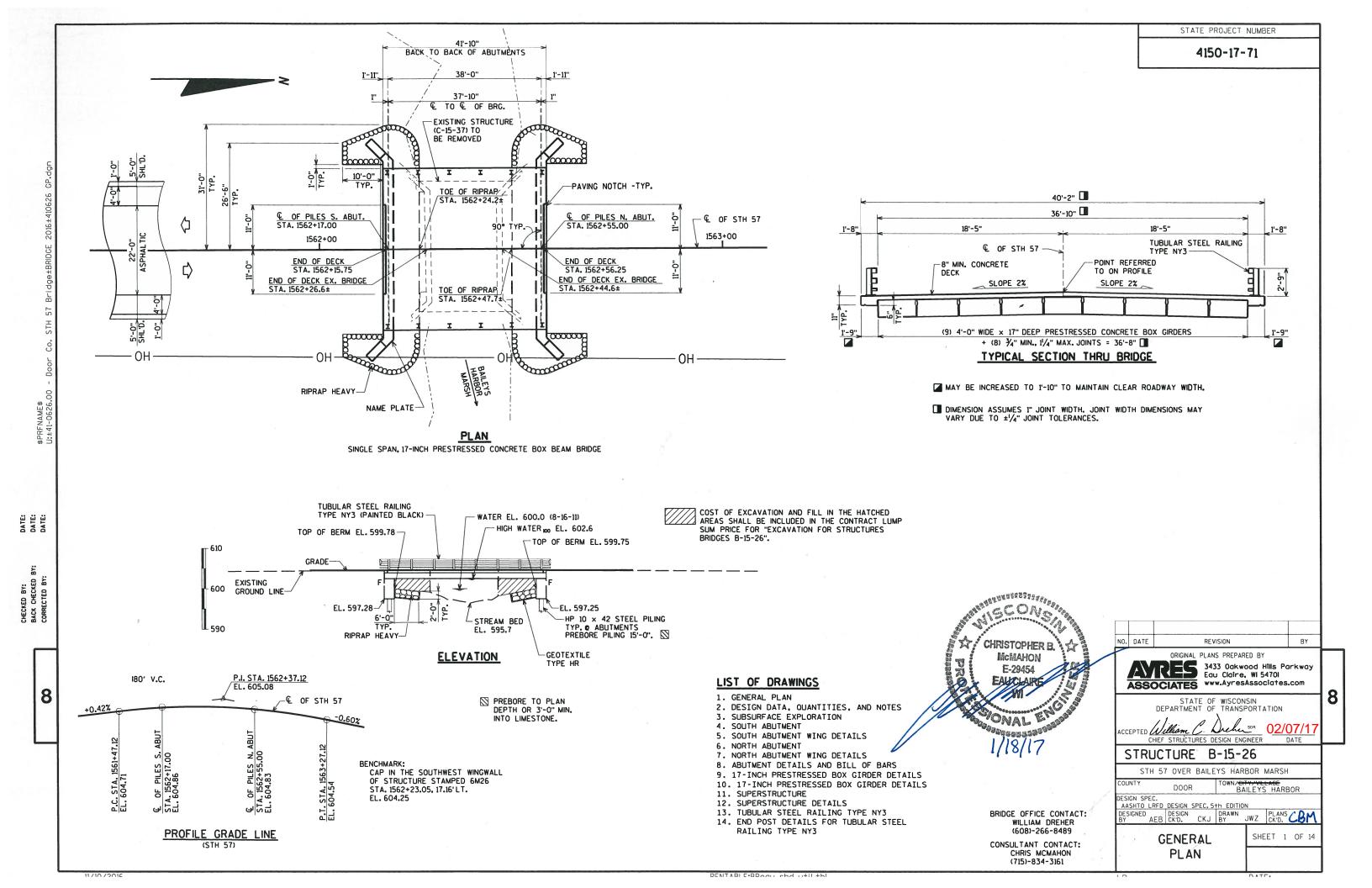
STANDARD SIGN W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11 PLATE NO. W20-2.6

SHEET NO:

PROJECT NO:

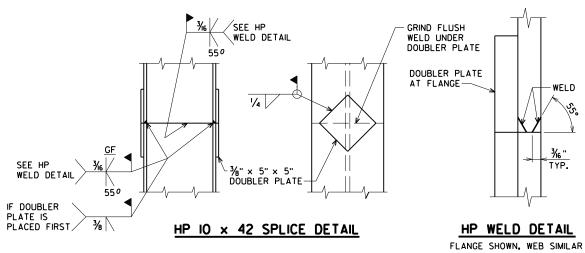


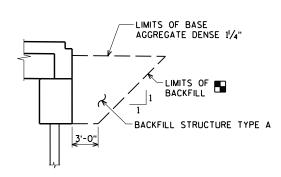
#### TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
	203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 1562+36	LS				1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-15-26	LS				1
	206.5000	COFFERDAMS B-15-26	LS				1
	210.1500	BACKFILL STRUCTURE TYPE A	TON	165	165		330
	502.0100	CONCRETE MASONRY BRIDGES	CY	35	35	52	122
	502.3200	PROTECTIVE SURFACE TREATMENT	SY			193	193
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,950	2,950		5,900
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	700	700	9,100	10,500
	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	9	9		18
$\triangle$	513.7083	RAILING STEEL TYPE NY3 B-15-26	LF			89	89
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10		20
$\boxtimes$	550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	105	105		210
	550.1100	PILING STEEL HP 10-INCH × 42 LB	LF	119	119		238
	606.0300	RIPRAP HEAVY	CY	45	45		90
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80	80		160
	645.0120	GEOTEXTILE TYPE HR	SY	95	95		190
_	SPV.0090.01	16 GAUGE GALVANIZED METAL FLASHING	LF			71	71
$\otimes$	SPV.0090.02	PRESTRESSED GIRDERS BOX TYPE 17-INCH	LF			347	347
		NON-BID ITEMS					
		FILLER	SIZE				1/2" & 3/4"

A RAILING STEEL TYPE NY3 WILL BE PAINTED BLACK (FEDERAL COLOR NO. 27038)

PREBORE TO PLAN DEPTH OR 3'-0" MIN. INTO LIMESTONE.

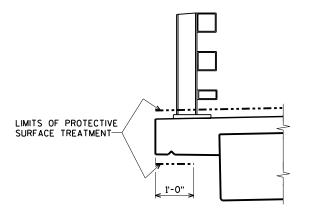




#### BACKFILL STRUCTURE LIMITS

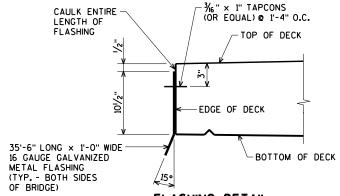
AT ABUTMENTS

BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.



# PROTECTIVE SURFACE TREATMENT DETAIL

AT FLASHING LOCATIONS (PRIOR TO INSTALLATION OF THE FLASHING)



#### FLASHING DETAIL

THE BID ITEM "16 GAUGE GALVANIZED METAL FLASHING" SHALL INCLUDE THE METAL FLASHING, CAULK, TAPCONS (OR EQUAL), CLEANING THE EDGE OF DECK PRIOR TO ATTACHMENT OF THE FLASHING, AS WELL AS THE ATTACHMENT OF THE FLASHING TO THE SIDE OF DECK. THE BID ITEM ALSO INCLUDES FURNISHING ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

#### DESIGN DATA

4150-17-71

LIVE LOAD:

DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: 1.31
OPERATING RATING FACTOR: 2.07 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING

SURFACE OF 20 \*/S.F.

MATERIAL PROPERTIES:

CONCRETE MASONRY SUPERSTRUCTURE -4,000 p.s.i. f'c= 3.500 p.s.i. HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)-60.000 p.s.i. 17" PRESTRESSED BOX GIRDERS CONCRETE MASONRY

f'c= 5,000 p.s.i. STRANDS - 0.5" DIA. WITH ULTIMATE TENSILE STRENGTH = 270,000 p.s.i.

HYDRAULIC DATA:

100 YEAR FREQUENCY 2 YEAR FREQUENCY O<sub>2</sub> = 84 c.f.s. VEL.= 0.7 f.p.s. Q<sub>100</sub> = 340 c.f.s. VEL.= 3.2 f.p.s.  $HW_{100} = EL. 602.6$ HW<sub>2</sub> = EL. 601.4 WATERWAY AREA = 107 sq. ft. DRAINAGE AREA = 3.91 sq. mi. ROADWAY OVERTOPPING = N/A SCOUR CRITICAL CODE = 8 DATUM = NAVD88 (2012)

**FOUNDATION DATA:** 

ABUTMENTS TO BE SUPPORTED ON HP 10 x 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 145 TONS # PER PILE. ESTIMATED LENGTH 17'-O" AT NORTH AND SOUTH ABUTMENTS. (PREBORE PILING 15'-0".) ⊠

**‡THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS** THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC DATA:

A.D.T. = 2,800 (2015) A.D.T. = 3,300 (2035) R.D.S. = 60 M.P.H.

#### **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR

STRUCTURE.

THE EXISTING STRUCTURE, C-15-37, TO BE REMOVED, IS A SINGLE SPAN CONCRETE FLAT SLAB BRIDGE THAT HAS BEEN WIDENED ON EACH SIDE WITH PRESTRESSED CONCRETE BOX BEAMS, 16.0 FT. LONG WITH A 31.8 FT. CLEAR ROADWAY WIDTH.

AT THE BACKFACE OF ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

THE EXISTING ROW OF PILING UNDER THE BRIDGE WILL NEED TO BE REMOVED, THIS WORK WILL BE INCIDENTAL TO "REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 1562+36".

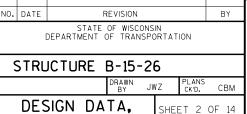
BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.
VARIATIONS TO THE GRADE LINE OVER 1/4" MUST BE SUBMITTED BY THE FIELD ENGINEER
TO THE STRUCTURES DESIGN SECTION FOR REVIEW.

AN AVERAGE DECK THICKNESS OF  $8\frac{3}{8}$ " WAS USED IN THE QUANTITY "CONCRETE

PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED AS SHOWN IN THE DETAILS ON THIS SHEET.

COAT EDGE AND UNDERSIDE OF DECK (SEE PROTECTIVE SURFACE TREATMENT DETAIL)
PRIOR TO INSTALLATION OF THE FLASHING AS DIRECTED BY THE ENGINEER.

ELASTOMERTIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

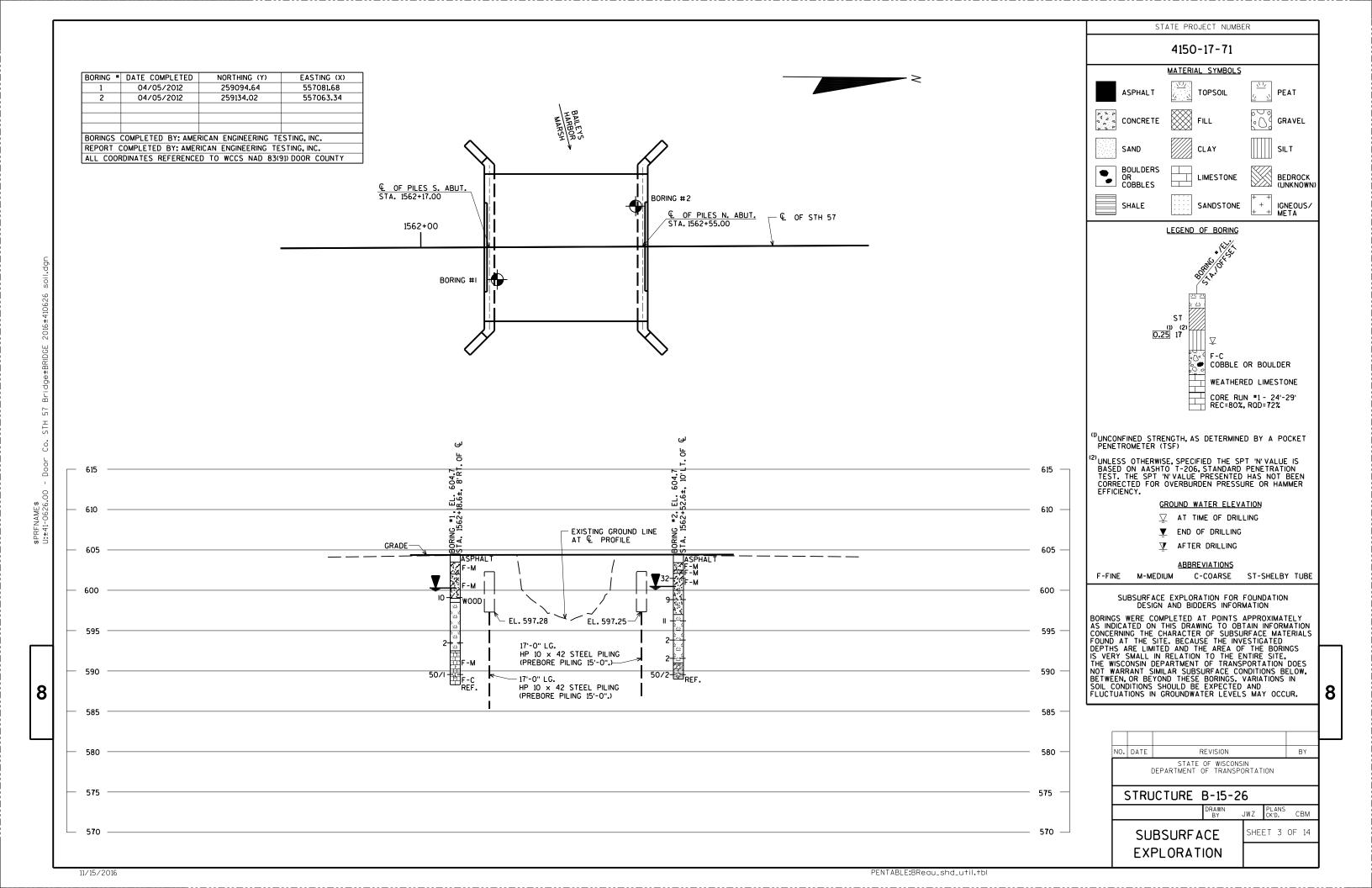


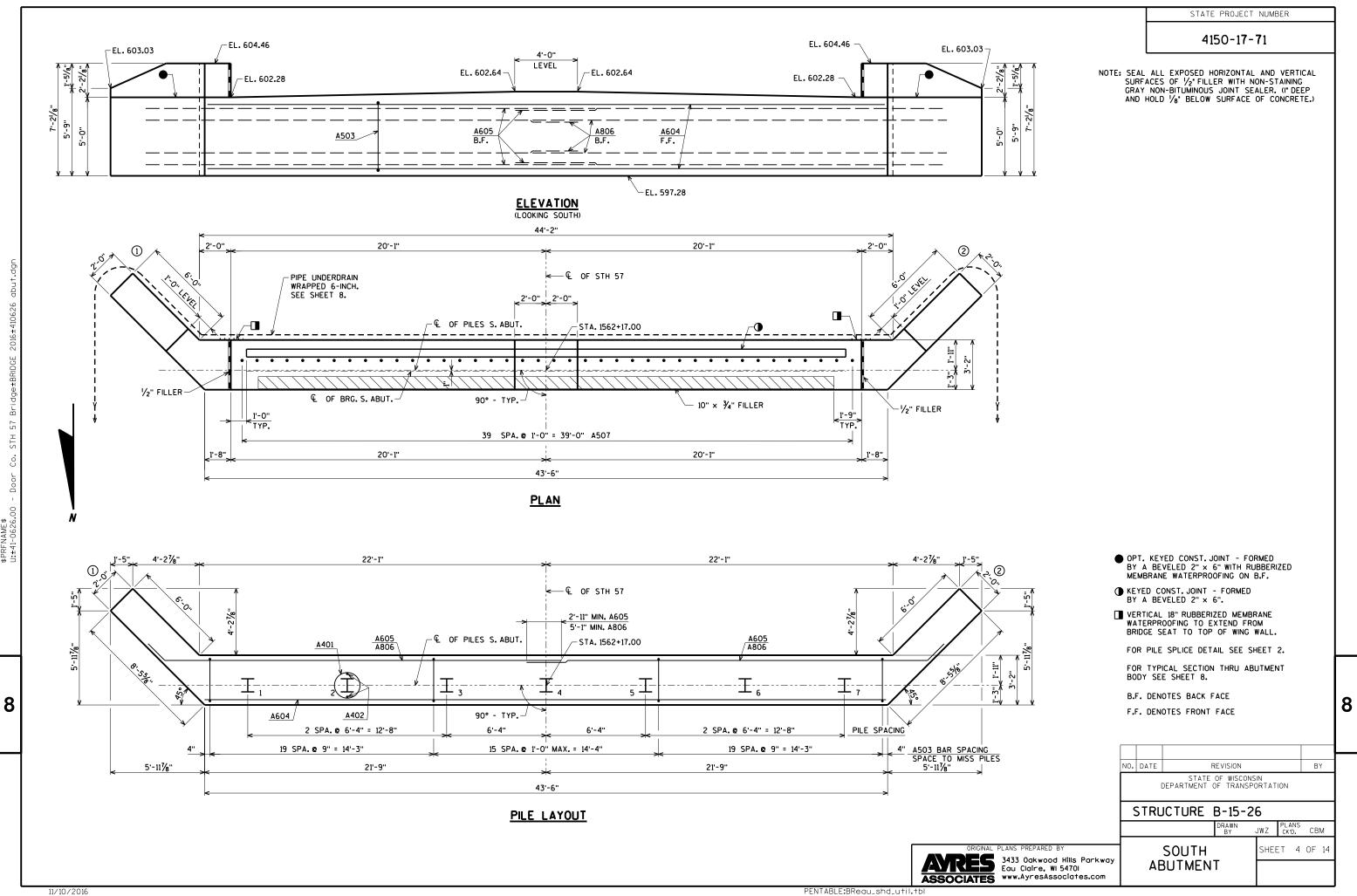
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Eau Claire, WI 54701

QUANTITIES. AND NOTES

1/18/2017





4150-17-71

18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE. NOT REQUIRED IF CONST. JT. IS NOT USED.

● OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" × 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.

→ ¾" 'V' GROOVE ON F.F. OF WING WALL NOT REQUIRED IF CONST. JT. IS NOT USED.

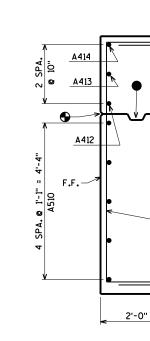
VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.

FOR PILE SPLICE DETAIL SEE SHEET 2.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE



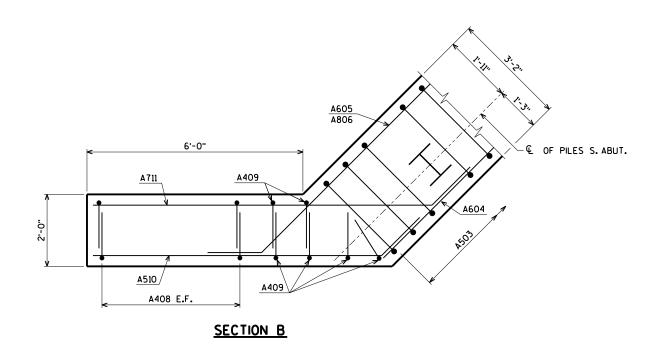
SECTION A

A414

A413

A412

A409



6'-0"

A412 E.F.

4 SPA. 0 1'-0" = 4'-0"

A408 E.F.

A409 E.F.

-EL. 603.03 C A414

A711 B.F.

B

A

AH

ELEVATION - WING I (WING 2 SIMILAR)

1'-0"

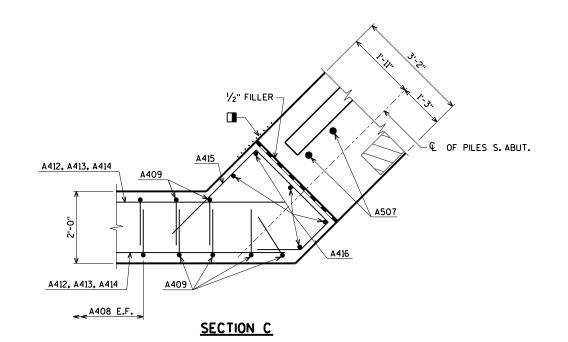
NAME PLATE - WING 1 ONLY

A416

EL. 597.28

B

EL. 604.46



NO. DATE BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-15-26 JWZ PLANS CK'D. CBM SHEET 5 OF 14 SOUTH ABUTMENT WING DETAILS

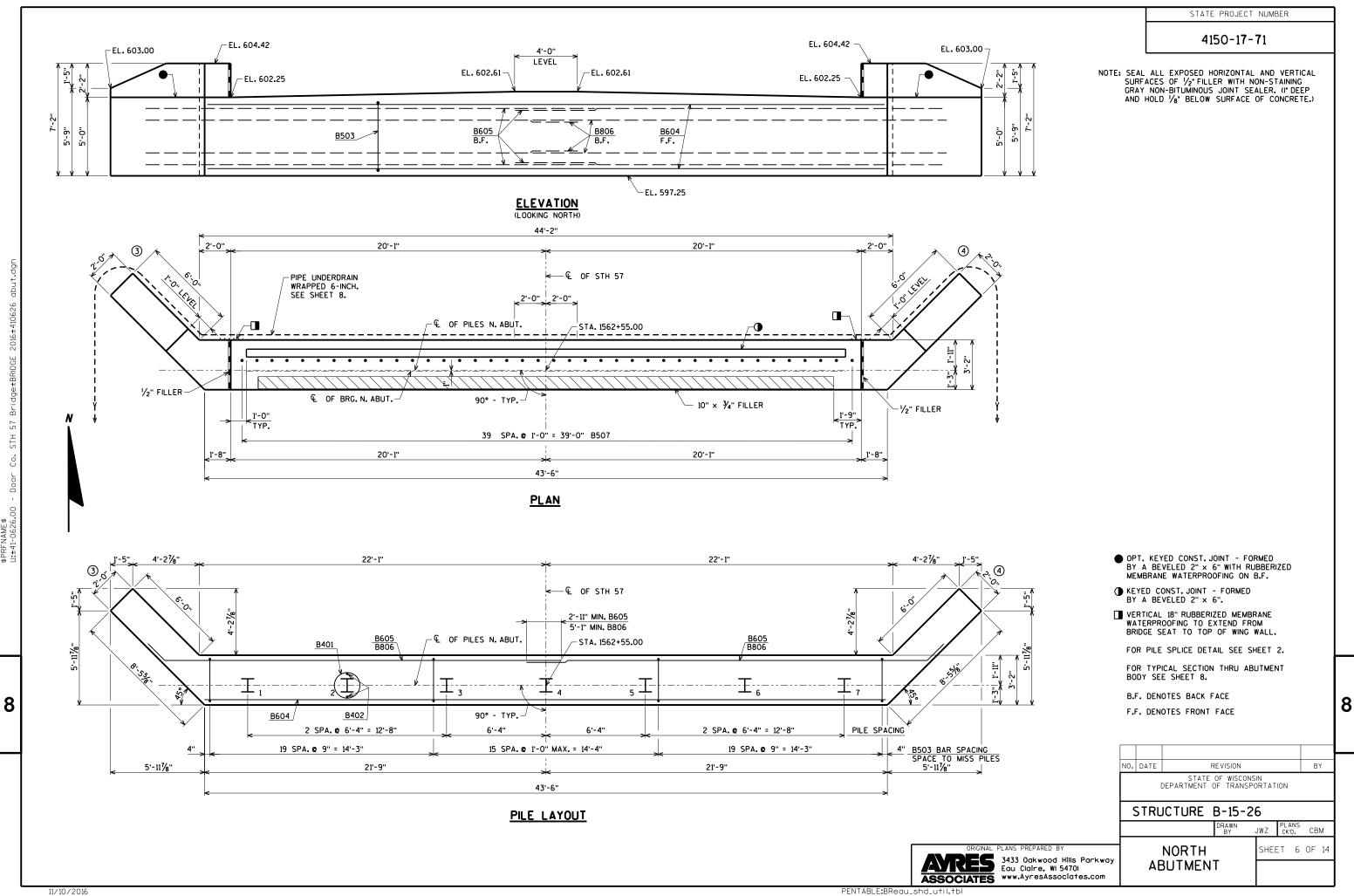
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11/10/2016

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PENTABLE:BReau\_shd\_util.tbl



4150-17-71

● OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" × 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.

18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE. NOT REQUIRED IF CONST.

→ ¾" 'V' GROOVE ON F.F. OF WING WALL NOT REQUIRED IF CONST. JT. IS NOT USED.

VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.

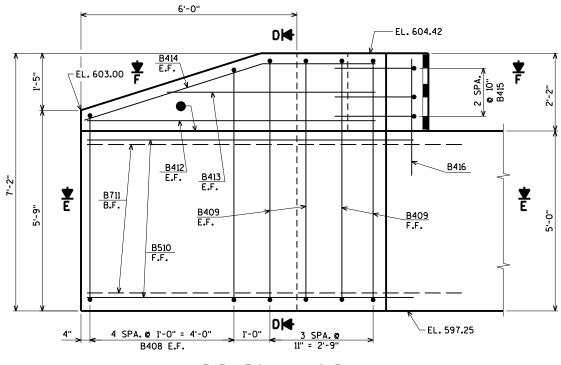
FOR PILE SPLICE DETAIL SEE SHEET 2.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

JT. IS NOT USED.

F.F. DENOTES FRONT FACE





6'-0"

B409

SECTION E

B409\

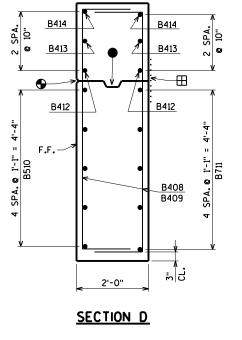
B711

<u>B510</u>/

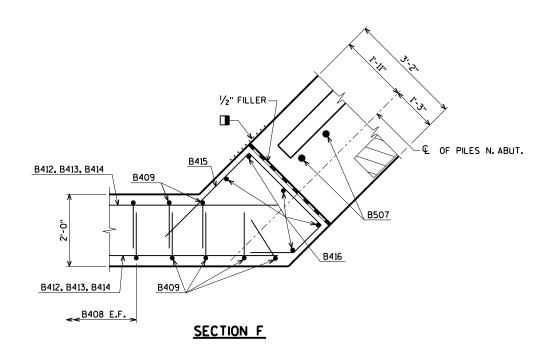
B408 E.F.

B605 B806

B604



- & OF PILES N. ABUT.



BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-15-26

JWZ PLANS CK'D. CBM SHEET 7 OF 14

NORTH ABUTMENT WING DETAILS

NO. DATE

ASSOCIATES

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Edu Claire, WI 5470I
www.AyresAssociates.com

11/10/2016

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PENTABLE:BReau\_shd\_util.tbl

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#### BILL OF BARS - SOUTH ABUTMENT

	_	ill U			_		SOUTH ADDITION
BAR. NO.	D BAR	REO'D.	-ENGTH	BAR	DLED	AR SERIES	2,950" UNCOATED 700" COATED
BAR	COATED	NO.	LEN	BENT	BUN	BAR	LOCATION
A401		7	28-0	Х			BODY @ PILES
A402		14	2-3				BODY @ PILES
A503		54	15-2	Х			BODY VERT.
A604		11	43-2				BODY HORIZ.
A605		4	27-4				BODY HORIZ. B.F.
A806		14	28-5				BODY HORIZ. B.F.
A507	Х	40	2-0				BODY DOWELS
A408	Х	20	8-5			8	WINGS 1 & 2 VERT. E.F.
A409	Х	12	9-2				WINGS 1 & 2 VERT. E.F.
A510	Х	10	9-6	Х			WINGS 1 & 2 HORIZ. F.F.
A711	Х	10	11-0	Х			WINGS 1 & 2 HORIZ. B.F.
A412	Х	4	8-0				WINGS 1 & 2 HORIZ. E.F.
A413	Х	4	5-0				WINGS 1 & 2 HORIZ. E.F.
A414	Х	4	8-0				WINGS 1 & 2 DIAG. E.F.
A415	Х	6	7-0	Х			WINGS 1 & 2 HORIZ.
A416	Х	10	3-8				WINGS 1 & 2 VERT.

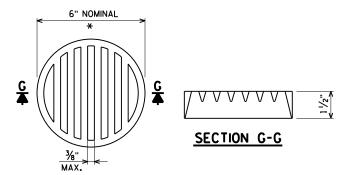
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

&LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

#### BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
A408	4 SERIES OF 5	7'-10" TO 9'-0"
B408	4 SERIES OF 5	7'-10" TO 9'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY.



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

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

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

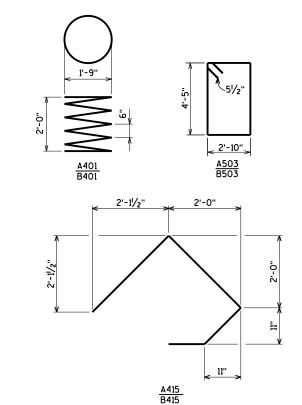
#### RODENT SHIELD DETAIL

#### BILL OF BARS - NORTH ABUTMENT

	_	<u> </u>					NONTH ADDITION
BAR. NO.	D BAR	REO'D.	LENGTH	BAR	BUNDLED	SERIES	2,950* UNCOATED 700* COATED
BAR	COATED	NO.	rEN	BENT	NN8	BAR	LOCATION
B401		7	28-0	Х			BODY @ PILES
B402		14	2-3				BODY @ PILES
B503		54	15-2	Х			BODY VERT.
B604		11	43-2				BODY HORIZ.
B605		4	27-4	Х			BODY HORIZ. B.F.
B806		14	28-5	Х			BODY HORIZ. B.F.
B507	Х	40	2-0				BODY DOWELS
B408	Х	20	8-5	Х		8	WINGS 3 & 4 VERT. E.F.
B409	Х	12	9-2	Х			WINGS 3 & 4 VERT. E.F.
B510	Х	10	9-6	Х			WINGS 3 & 4 HORIZ. F.F.
B711	Х	10	11-0	Х			WINGS 3 & 4 HORIZ. B.F.
B412	Х	4	8-0				WINGS 3 & 4 HORIZ. E.F.
B413	Х	4	5-0				WINGS 3 & 4 HORIZ. E.F.
B414	Х	4	8-0	Х			WINGS 3 & 4 DIAG. E.F.
B415	Х	6	7-0	Х			WINGS 3 & 4 HORIZ.
B416	Х	10	3-8				WINGS 3 & 4 VERT.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

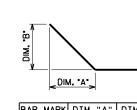
⊗LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



\_ 1'-4" \_ 1'-4"

STATE PROJECT NUMBER

4150-17-71



BAR MARK	DIM."A"	DIM."B"
A605	1'-0¾"	1'-0¾"
A806	1'-0¾"	1'-0¾"
A510	1'-0¾"	1'-0¾"
A711	1'-0¾"	1'-0¾"
A414	4'-9"	1'-5"
B605	1'-0¾"	1'-0¾"
B806	1'-0¾"	1'-0¾"
B510	1'-0¾"	1'-0¾"
B711	1'-0¾"	1'-0¾"
B414	4'-9"	1'-5"

A507/B507 BARS MAY BE PLACED AFTER ABUT. IS POURED BUT BEFORE CONC. HAS SET. IMBED BARS I'-O".

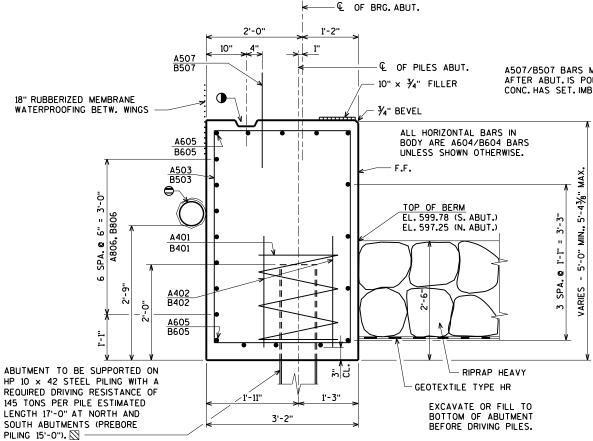
> ⇒ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. ■ KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".

FOR PILE SPLICE DETAIL SEE SHEET 2.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE



PREBORE TO PLAN DEPTH OR 3'-0" MIN. INTO LIMESTONE.

TYPICAL SECTION THRU BODY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-15-26 JWZ PLANS CK'D. CBM **ABUTMENT** SHEET 8 OF 14

DETAILS AND

BILL OF BARS

3433 Oakwood Hills Parkway ASSOCIATES www.AyresAssociates.com

4150-17-71

#### <u>NOTES</u>

2" MAX. 11/2" MAX.

11/4" MAX.

SHEAR KEY DETAIL

NON-SHRINK GROUT

SELF-ADHESIVE COMPRESSIBLE SEALER (CUT LATER

TO DRAIN MOISTURE)

THE CONCRETE MIX FOR THE PRESTRESSED BOX GIRDERS SHALL CONFORM TO SECTION 503.2.2 OF THE STANDARD SPECIFICATIONS.

AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO THE BOTTOM OF THE GIRDERS AND THE EXTERIOR FACE OF EXTERIOR GIRDERS. DO NOT APPLY CONCRETE SEALER OR EPOXY TO THE SHEAR KEY OR THE TOP OF GIRDERS.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR CONCRETE ABUTMENTS, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SFALER.

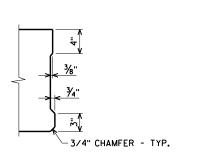
FOUR WAY SLING MUST BE USED TO ENGAGE ALL FOUR LIFTING DEVICES ON BOTH ENDS OF UNITS.

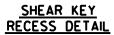
POST-TENSIONING OF THE TRANSVERSE TENDONS SHALL NOT BEGIN UNTIL THE GROUT BETWEEN THE PRECAST BOX GIRDERS HAS BEEN ALLOWED TO CURE FOR 48 HOURS AND GROUT HAS REACHED A COMPRESSIVE STRENGTH OF 3,000 PSI.

SEAL WASHER SHALL BE SPONGE NEOPRENE GASKET  $3^1\!/_4$ " MIN. THICK. STRESS POCKETS SHALL BE FILLED WITH CHLORIDE-FREE NON-SHRINK GROUT AFTER POST-TENSIONING.

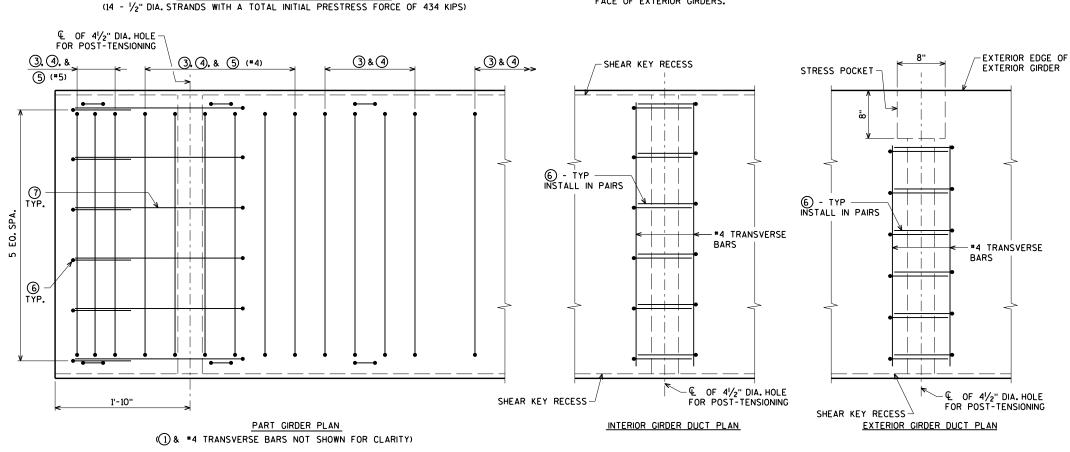
TRANSITION BETWEEN CHANGING SLOPES OF POST-TENSIONING DUCTS SHALL BE PROVIDED BY EITHER A CIRCULAR OR PARABOLIC CURVE WITH A MINIMUM LENGTH OF 3'-O".

- ↑ OR EQUIVALENT. WELDED PLATE DETAIL OR LOOP INSERT DETAIL MAY BE SUBSTITUDED PROVIDED THEIR PULLOUT CAPACITY IS APPROXIMATELY EQUAL TO THE YIELD STRENGTH OF THE #4 BARS.
- SUBSTITUE 1 BAR ON EXTERIOR EDGE OF EXTERIOR GIRDERS.





OMIT SHEAR KEY ON EXTERIOR FACE OF EXTERIOR GIRDERS.



11/2" CL.

\*4 TRANSVERSE
BAR - TYP. 6

9 - TYP. 8
2'-4" MIN. LAP

\*5 SPA. 6 5"

5 SPA. 6 5"

5 SPA. 6 5"

6" MAX. SPACING

N

AT END-SPAN

8 2'-4" MIN. LAP

© OF STRANDS

41/2" DIA. HOLE FOR POST-TENSIONING - TYP.

AT AID SDAN

PART GIRDER ELEVATION

ASSOCIATES
ORIGINAL PLANS PREPARED BY

3433 Oakwood Hills Parkway
Eau Claire, WI 5470I
www.AyresAssociates.com

WORK THIS SHEET WITH SHEETS 10 AND 12.

8

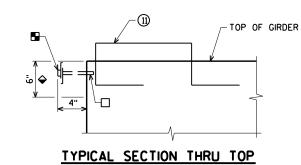
◆ 9 - TYP.-

STRAND TYP.

4'-0"

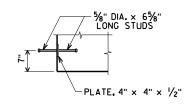
TYPICAL SECTION THRU GIRDER

#### 4150-17-71



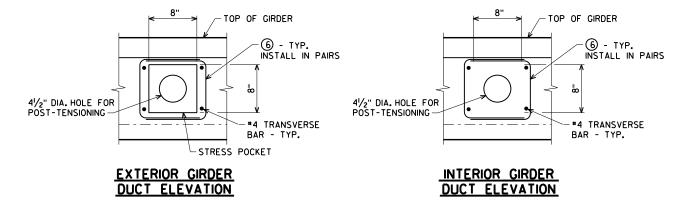
CORNER OF EXTERIOR GIRDER

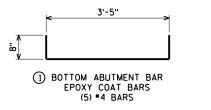
 $-\frac{1}{2}$ " DIA. "L"-SHAPED THREADED BAR #4 BAR └ 1/2" DIA. FERRULE LOOP INSERT

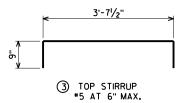


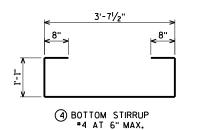
LOOP INSERT DETAIL

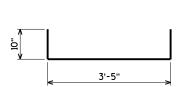
WELDED PLATE DETAIL (EQUIVALENT TO ONE #4 BAR)











(5) END BLOCK BOTTOM STIRRUP #4 AND #5 BARS SEE PART GIRDER ELEVATION FOR SPACING

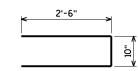


6 DUCT STIRRUP

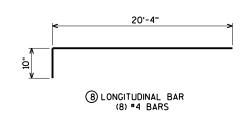
\*4 AT 9" MAX

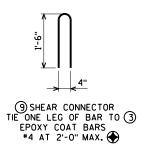
(6) EACH GIRDER END

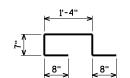
(12) EACH GIRDER DUCT



7 DUCT STIRRUP \*4 AT 9" MAX (6) EACH GIRDER END







(1) EXTERIOR EDGE SHEAR CONNECTOR #4 AT 2'-0" MAX. EPOXY COAT BARS (SEE SHEET 11 FOR LOCATION)

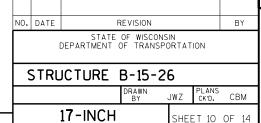
ROUGHEN EDGE OF BOX GIRDER AT INTERFACE WITH DECK OVERHANG CONCRETE TO AN AMPLITUDE OF 1/4".

 $^{1}/_{2}$ " DIA. HIGH STRENGTH BOLT WITH NUT AND  $^{31}/_{2}$ " $^{31}/_{2}$ " $^{5}/_{6}$ " PLATE WASHER.

☐ 1/2" DIA. ELECTROPLATED FERRULE LOOP INSERT (MEDIUM HIGH CARBON WIRE) OR APPROVED EQUAL. SPACE AT 4'-0" MAX.

SUBSTITUE 1 BAR ON EXTERIOR EDGE OF EXTERIOR

WORK THIS SHEET WITH SHEETS 9 AND 12.

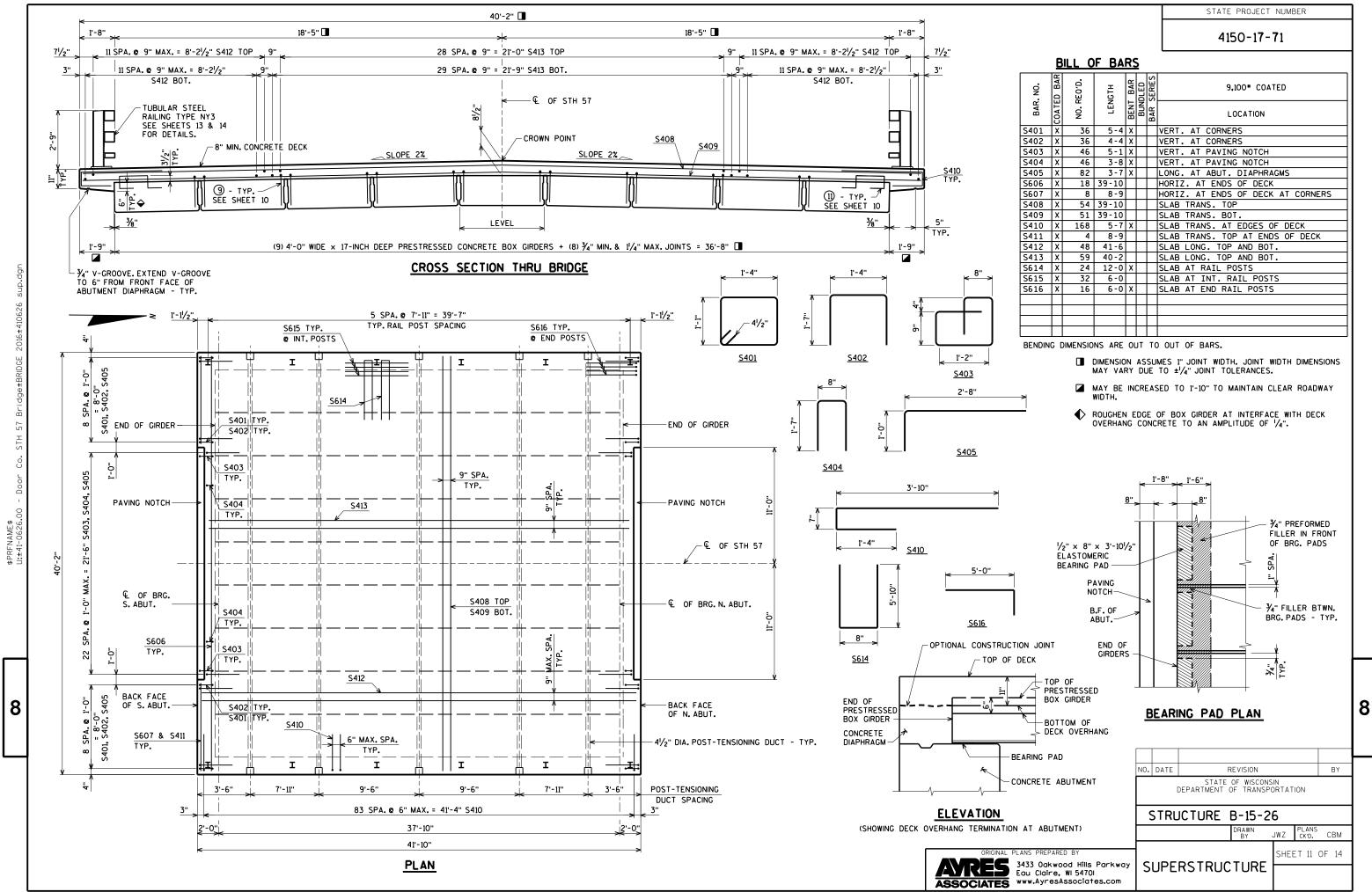


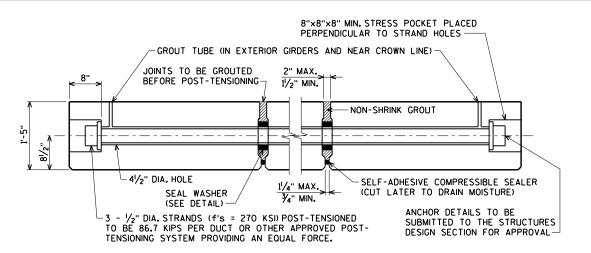
3433 Oakwood Hills Parkway
Eau Claire, WI 5470I ASSOCIATES www.AyresAssociates.com

17-INCH PRESTRESSED BOX GIRDER DETAILS

1/18/2017

8





# SPONGE NEOPRENE 31/4" MIN. THICK.

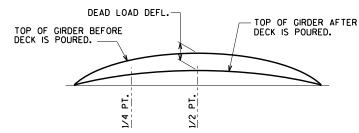
SEAL WASHER DETAIL

(MAY ALSO BE ROUND)

#### POST-TENSIONING DETAILS

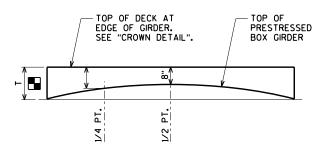
			GI	RDER	DAT	Α		
		CIDDED		LOAD	CONC.	DIA 05	UNDRAPED F	PATTERN
SPAN	GIRDER	GIRDER LENGTH	DEFL	. (IN.)	STRGTH. f'c	DIA. OF STRAND	TOTAL	f'ci
5. 7	002	"L"	¼ PT.	½ PT.		(IN.)	NO.OF STRANDS	(p.s.i.)
1	ALL	38'-6"	0.14	0.20	5,000	0.5	14	4,000
<del></del>								

\* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.



DEAD LOAD DEFLECTION DIAGRAM

				TOP OF	DECK E	LEVATION	NS.				
	€ OF PILES S. ABUT.	0.1 PT.	0.2 PT.	0.3 PT.	0.4 PT.	0.5 PT.	0.6 PT.	0.7 PT.	0.8 PT.	0.9 PT.	€ OF PILES N. ABUT.
W. EDGE OF DECK	604.46	604.46	604.46	604.46	604.45	604.45	604.45	604.44	604.44	604.43	604.42
€ ROAD	604.86	604.86	604.86	604.86	604.85	604.85	604.85	604.84	604.84	604.83	604.83
E. EDGE OF DECK	604.46	604.46	604.46	604.46	604.45	604.45	604.45	604.44	604.44	604.43	604.42



#### **DECK THICKNESS DIAGRAM**

TO DETERMINE DECK THICKNESS AT GIRDER ENDS, FOLLOW THIS PROCESS:

8" MIN. DECK SLAB THICKNESS + FIELD MEASURED GIRDER CAMBER (AT MID SPAN) - DEAD LOAD DEFLECTION (AT MIDSPAN)

= DECK THICKNESS, 'T'

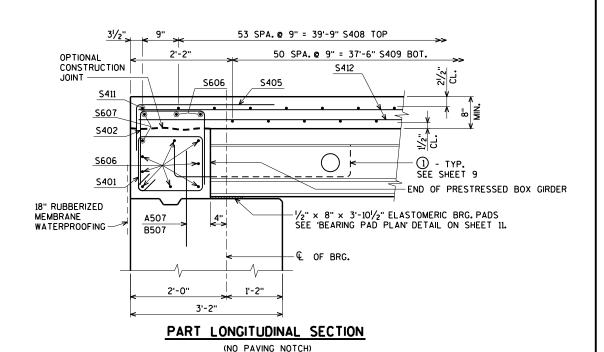
NOTE: PLAN DECK THICKNESS BASED ON THEORETICAL INITIAL CAMBER VALUE. 1/4 PT. MAY BE INTERPOLATED. USE FIELD MEASURED GIRDER CAMBER FOR ACTUAL DECK THICKNESS. THE 1/4 PT. IS INTERPOLATED BETWEEN DECK THICKNESS AT THE END OF DECK AND AT MIDSPAN.

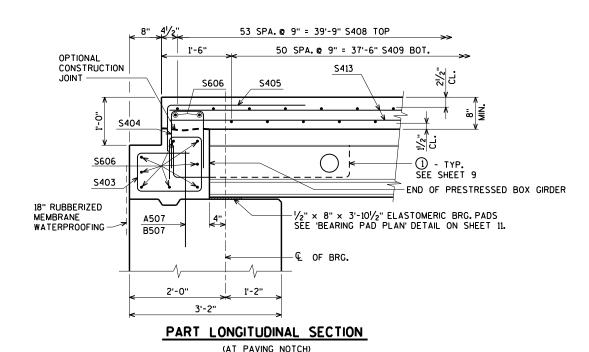
SPAN	CAMBER (IN.) **
1	0.79

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T'. USE FIELD MEASURED GIRDER CAMBER.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

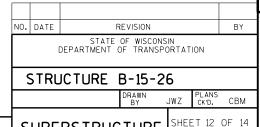
\*\* THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.





WORK THIS SHEET WITH SHEETS 9 AND 10.

8



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**SUPERSTRUCTURE DETAILS** 

#### LEGEND

- (1) W6 X 25 WITH 11/8" X 13/8" HORIZONTAL SLOTTED HOLES ON EACH SIDE OF POST FOR BOLT NO. 6 AT NO. 5. USE 1" DIA. HOLES FOR BOLT NO. 6 AT NO. 5A AND FOR BOLT NO. 6A AT NO. 7. CUIT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- (3) ASTM A449 1" DIA. ANCHOR BOLTS WITH HEAVY HEX NUT AND 2" O.D. HARDENED WASHER (ALL GALVANIZED). 4 REQUIRED PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USIN/2" LONG BOLT FOR CONCRETE DECKS. ON CONCRETE SLAD SUPERSTRUCTURES, USE 1'3" LONG
- 4 % " X 10" X 1'-2" ANCHOR PLATE (GALVANIZED) WITH  $1/\!\!/_{16}$  " DIA. HOLES FOR ANCHOR BOLTS NO. 3.
- (5A) TS 5 X 3 X 1/4" STRUCTURAL TUBING. USE 1/9" X 13/9" HORIZONTAL SLOTTED HOLES FOR BOLT NO.6 (FRONT & BACK) AND A 2" O.D. WASHER UNDER BOLT HEAD.
- 6A  $\cancel{3}\!\!/_4$ " dia. A325 bolt with HeX nut & spring lock washer (1 required at rail to angle & 2 required at angle to post locations shown with  $\cancel{3}\!\!/_6$ " X  $\cancel{1}\!\!/_4$ " X  $\cancel{1}\!\!/_4$ " washer).
- 7 L 5 X 5 X %" STRUCTURAL ANGLE. ATTACH TO NO. 1 AND NO. 5 AS SHOWN.
- (8) TS 5 X 5 X 1/6" X 2'-4" LONG SPLICE TUBE. 1 PER RAIL. USED IN NO. 5.
- (8A) 41/4" X 21/8" X 2'-4" LONG SPLICE BAR. 1 PER RAIL. USED IN NO. 5A.
- (9) 3/4" DIA. A325 FULLY THREADED BOLTS, 71/2" LONG, WITH 2 WASHERS AND HEAVY HEX NUT ON EACH BOLT. NUT TO BE FINGER TIGHT. (4 REQUIRED PER SPLICE) USE 1" X 4" SLOTTED HOLES IN TOP AND BOTTOM OF NO.5.
- (9A) 3/4" DIA. A325 FULLY THREADED BOLTS, 41/2" LONG, WITH 2 WASHERS AND HEAVY HEX NUT ON EACH BOLT. NUT TO BE FINGER TIGHT. (4 REQUIRED PER SPLICE) USE 1" X 4" SLOTTED HOLES IN TOP AND BOTTOM OF NO.5A.
- (10) SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- A PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE RAILS, SPLICE TUBES AND FILL PLATES.
- TIE TO TOP MAT OF STEEL.

BID ITEM SHALL BE "RAILING STEEL TYPE NY3 B-15-26", WHICH INCLUDES ALL ITEMS

RAILING SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS, ANGLES, SPLICE TUBES, SPLICE BARS AND STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

RAIL POST, BASE PLATES, SPLICE BAR, ANGLES AND SPLICE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED  $f_{\nu}$  =50 KSI, ANCHOR PLATES & SHIMS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.

THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.

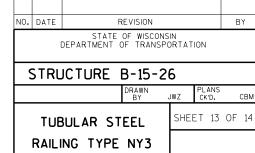
FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. CAULK AROUND PERIMETER OF NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

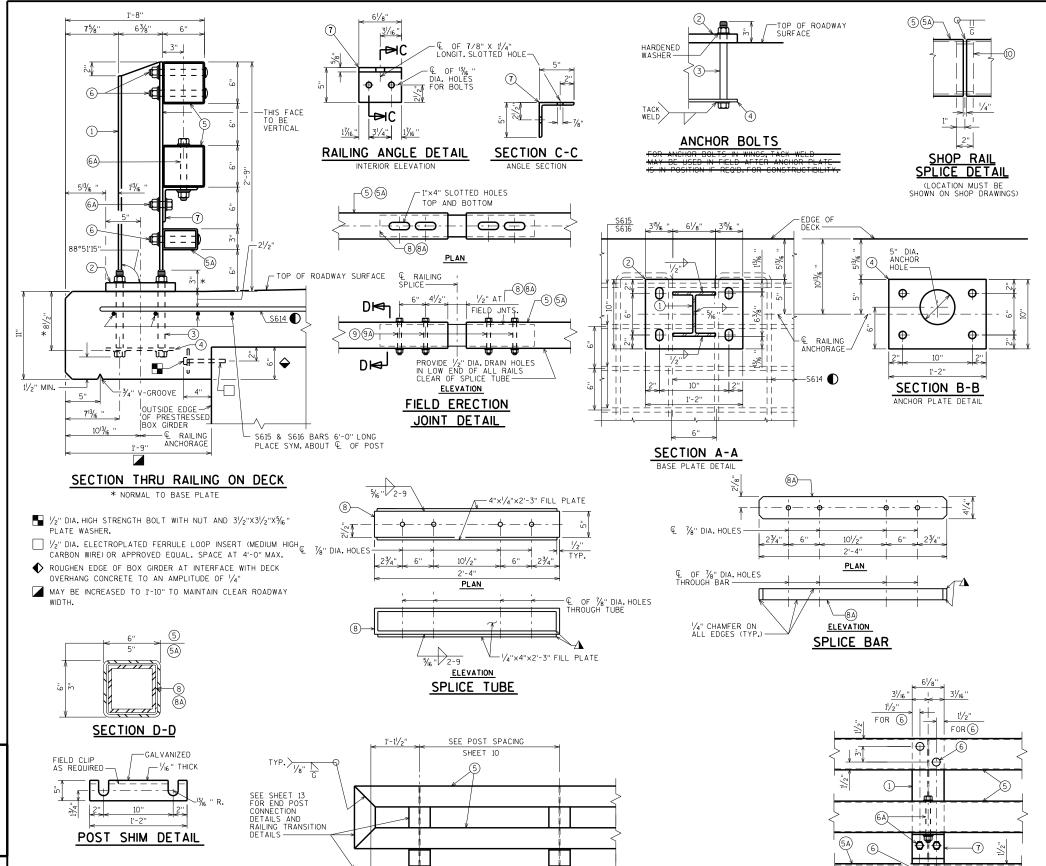
STEEL SHIMS SHALL BE PROVIDED & USED UNDER PLATE NO.2 WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).

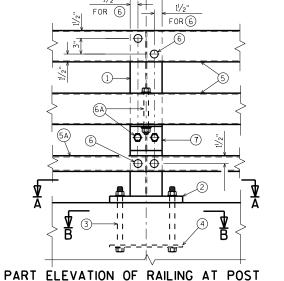
PAINT OVER GALVANIZING, ALL MATERIAL EXCEPT ANCHORAGE DETAIL (NO. 3 & NO. 4), WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED BLACK FEDERAL COLOR NO. 27038.

WORK THIS SHEET WITH "END POST DETAILS FOR TUBULAR STEEL RAILING TYPE NY3" SHEET.





INTERIOR ELEVATION



# RAILNY3

#### LEGEND

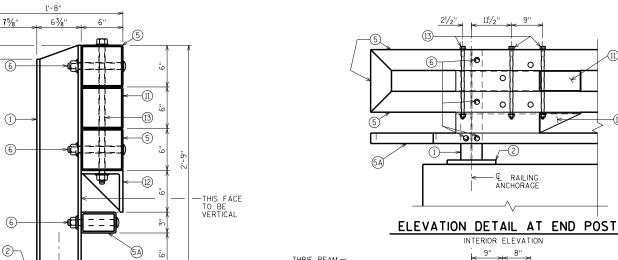
(11)

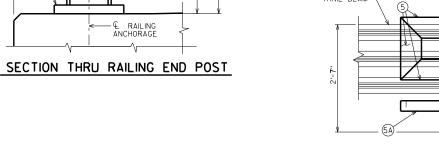
- (1) W6 X 25 WITH 11/8" X 13/8" HORIZONTAL SLOTTED HOLES ON SIDE OF POST FOR BOLT NO. 6 AT NO.5. USE 1" DIA.HOLE FOR BOLT NO.6 AT NO.5A BOTTOM RAIL. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- 2) PLATE 11/4" X 10" X 1'-2". SEE SHEET "TUBULAR STEEL RAILING NY3" FOR MORE INFORMATION.
- (5) TS 6 X 6 X 3/6" STRUCTURAL TUBING. USE 1/8" DIA. HOLES IN TOP AND BOTTOM OF RAILS FOR BOLT NO.13 AS SHOWN IN PLAN DETAILS. USE 1" DIA. HOLES IN FRONT AND BACK OF RAILS FOR BOLTS NO.6 & NO.14 AS SHOWN IN ELEVATION DETAILS.
- $\stackrel{(5a)}{}$  TS 5 X 3 X  $^1\!/\!\!4$  " STRUCTURAL TUBING. USE  $1\!/\!\!8$  "X  $1\!/\!\!8$  " HORIZONTAL SLOTTED HOLES FOR BOLT NO.6 IN BOTTOM RAIL (FRONT & BACK) AND A 2" O.D. WASHER UNDER BOLT HEAD.
- (6) 1/8" DIA. A325 SLOTTED ROUND HEAD BOLT WITH HEX NUT, 1/96" X 1/94" X 1/94" WASHER, AND SPRING LOCK WASHER (I REQUIRED AT RAIL NO. 5 TO POST NO. 1 CONNECTION LOCATIONS SHOWN). 2 REQUIRED AT RAIL NO. 5A TO POST NO. 1 CONNECTION LOCATIONS SHOWN).
- (1) TS 6 X 6 X  $\%_6$ " STRUCTURAL TUBING. USE 1" DIA. HOLES IN FRONT AND BACK FOR BOLT NO. 14 &  $\%_8$ " DIA. HOLES IN TOP & BOTTOM FOR BOLT NO. 13.
- 12 L 6 X 6 X % " STRUCTURAL ANGLE, USE % " DIA, HOLES IN TOP FLANGE FOR BOLT NO.13.
- (3) 3/" DIA. A325 FULLY THREADED BOLTS, 2 WASHERS AND A HEAVY HEX NUT, ON EACH BOLT. NUT TO BE FINGER TIGHT. 3 BOLTS AT EACH END POST.
- (4)  $\frac{7}{6}$ " DIA, A325 SLOTTED ROUND HEAD BOLT WITH HEX NUT AND  $\frac{7}{6}$ " X 2" X 2" WASHER FOR CONNECTION OF THRIE BEAM (4 REOUIRED)

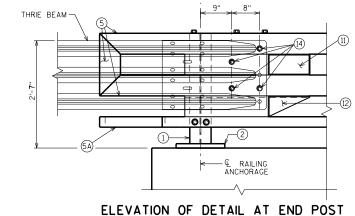
#### NOTES

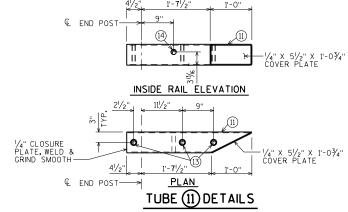
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED fy=50 KSI. STRUCTURAL ANGLE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50.

WORK THIS SHEET WITH "TUBULAR STEEL RAILING TYPE NY3" SHEET.









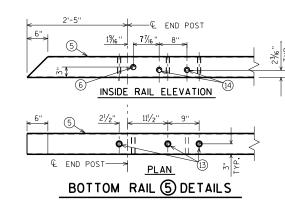
1%6

**o**∉∐I

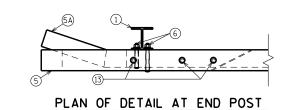
1'-3½6''

INSIDE RAIL ELEVATION

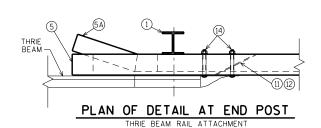
TOP RAIL (5) DETAILS

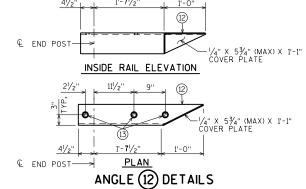


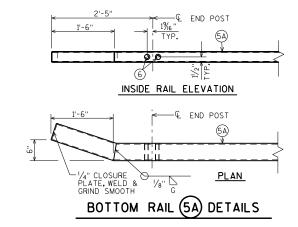
2

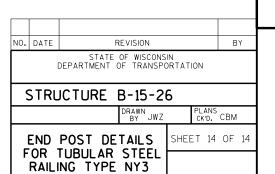


THRIE BEAM RAIL ATTACHMEN









RAILNY3DET

8

8

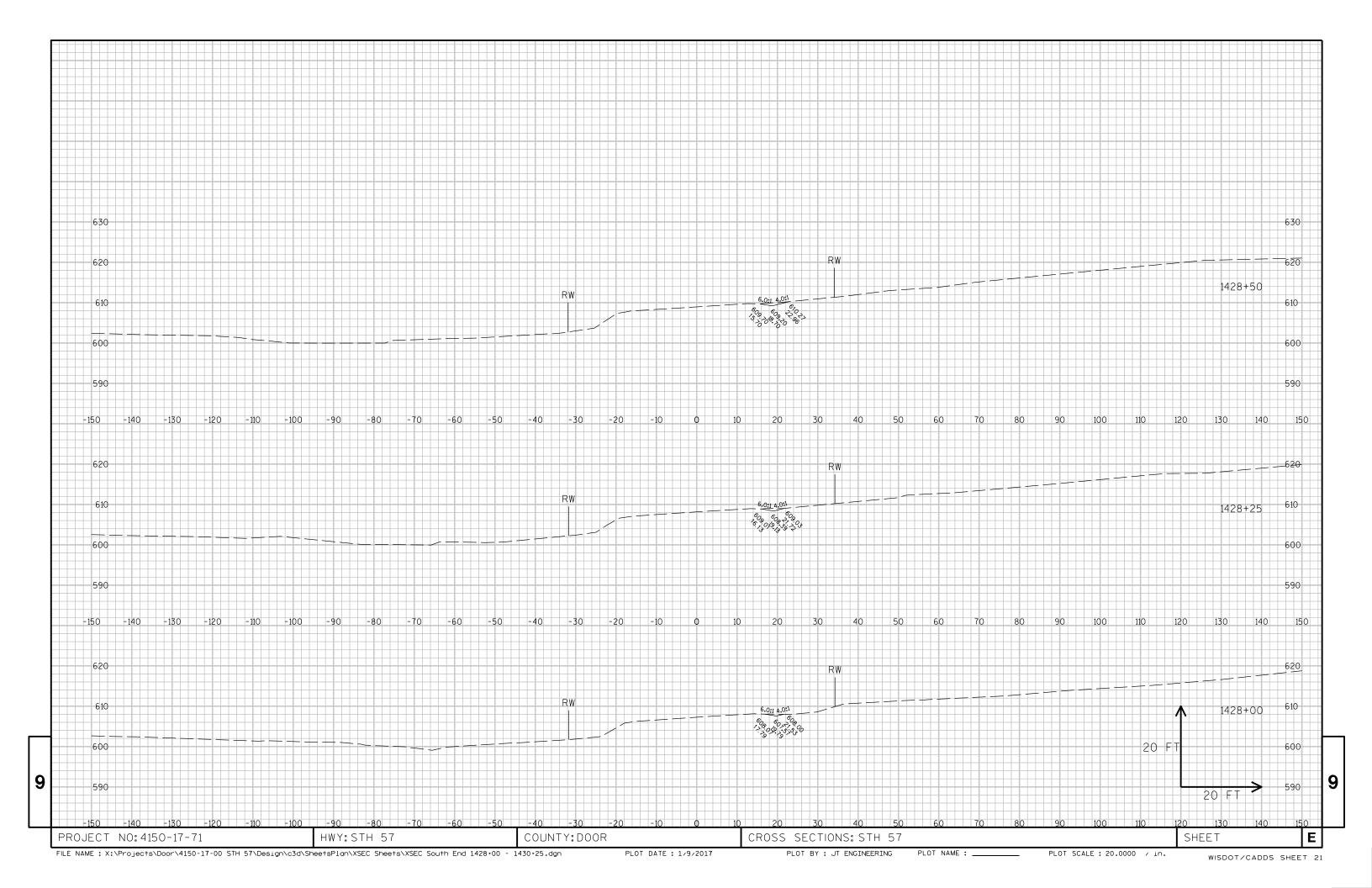
				STH 57 EARTH	IWORK DETAIL				
		AREA (SF)		I NCREMENTAI	L VOLUME (CY)	(UNADJUSTED	CUMULATI VE	VOLUME (CY)	
		SALVAGED / UNUSABLE PAVEMENT			SALVAGED / UNUSABLE PAVEMENT		CUT	EXPANDED FI LL	MASS
STATI ON	CUT	MATERI AL	FI LL	CUT	MATERI AL	FILL	1. 00	1. 33	ORDI NATE
1428+00	1. 14	0	0. 00	0.00	0	0.00	0	0	0
1428+25	1. 84	0	0. 00	1. 38	0	0. 00	1	0	1
1428+50	2. 64	0	0. 00	2. 07	0	0.00	3	0	3
1428+75	9. 94	0	0. 00	5. 82	0	0.00	9	0	9
1429+00	15. 84	0	0. 00	11. 94	0	0.00	21	0	21
1429+25	7. 14	0	0. 00	10. 64	0	0. 00	32	0	32
1429+50	6. 34	0	0. 00	6. 24	0	0. 00	38	0	38
1429+75	0. 59	0	0. 00	3. 21	0	0. 00	41	0	41
1430+00	0. 54	0	0. 14	0. 52	0	0. 06	42	0	42
1430+25	0. 59	0	0. 00	0. 52	0	0. 06	42	0	42
1430+25. 01	0. 00	0	0. 00	0. 00	0	0. 00	42	0	42
1461+69. 9	0. 00	0	0. 00	0. 00	0	0.00	42	0	42
1461+70	0. 03	0	0. 00	0. 00	0	0. 00	42	0	42
1461+75	0. 13	0	0. 00	0. 01	0	0. 00	42	0	42
1462+00	0. 16	0	0. 08	0. 13	0	0. 04	42	0	42
1462+25	0. 12	0	9. 39	0. 13	0	4. 38	43	6	37
1462+50	0. 07	0	6. 67	0. 09	0	7. 44	43	16	27
1462+75	0. 24	0	1. 45	0. 14	0	3. 76	43	21	22
1462+90	0. 40	0	0. 02	0. 18	0	0. 41	43	21	22
1462+90. 01	0. 00	0	0. 00	0. 00	0	0. 00	43	21	22
1473+74. 99	0. 00	0	0. 00	0. 00	0	0. 00	43	21	22
1473+75	0. 01	0	0. 45	0. 00	0	0. 00	43	21	22
1474+00	0. 00	0	1. 32	0. 00	0	0. 82	43	23	20
1474+50	0. 00	0	7. 00	0. 00	0	7. 70	43	33	10
1475+00	0. 00	0	10. 23	0. 00	0	15. 95	43	54	- 11
1475+50	0. 00	0	10. 72	0. 00	0	19. 40	43	80	- 37
1475+66	19. 84	0	18. 75	5. 88	0	8. 73	49	91	- 43
1475+82	0. 00	0	0. 48	5. 88	0	5. 70	55	99	- 44
1476+25	0. 01	0	5. 20	0. 01	0	4. 52	55	105	- 50
1476+50	0. 03	0	6. 29	0. 02	0	5. 32	55	112	- 57
1477+00	0. 34	0	0. 00	0. 34	0	5. 82	55	120	- 65
1477+50	0. 44	0	0. 00	0. 72	0	0. 00	56	120	- 64
1478+00	0. 21	0	0. 00	0. 60	0	0. 00	56	120	- 63
1478+25	0. 02	0	0. 24	0. 11	0	0. 11	57	120	- 63
1478+50	0. 02	0	0. 08	0. 02	0	0. 15	57	120	- 64
1479+00	0. 09	0	0. 00	0. 10	0	0. 07	57	120	- 64
1479+50	0. 00	0	21. 87	0. 08	0	20. 25	57	147	- 90
1480+00	0. 00	0	28. 65	0. 00	0	46. 78	57	209	- 153
1480+50	0. 00	0	22. 41	0. 00	0	47. 28	57	272	- 216
1481+00	0. 00	0	10. 27	0. 00	0	30. 26	57	313	- 256
1481+50	0. 00	0	1. 94	0. 00	0	11. 31	57	328	- 271
1482+00	0. 00	0	0. 81	0. 00	0	2. 55	57	331	- 274
1482+00. 01	0. 00	0	0. 00	0. 00	0	0. 00	57	331	- 274

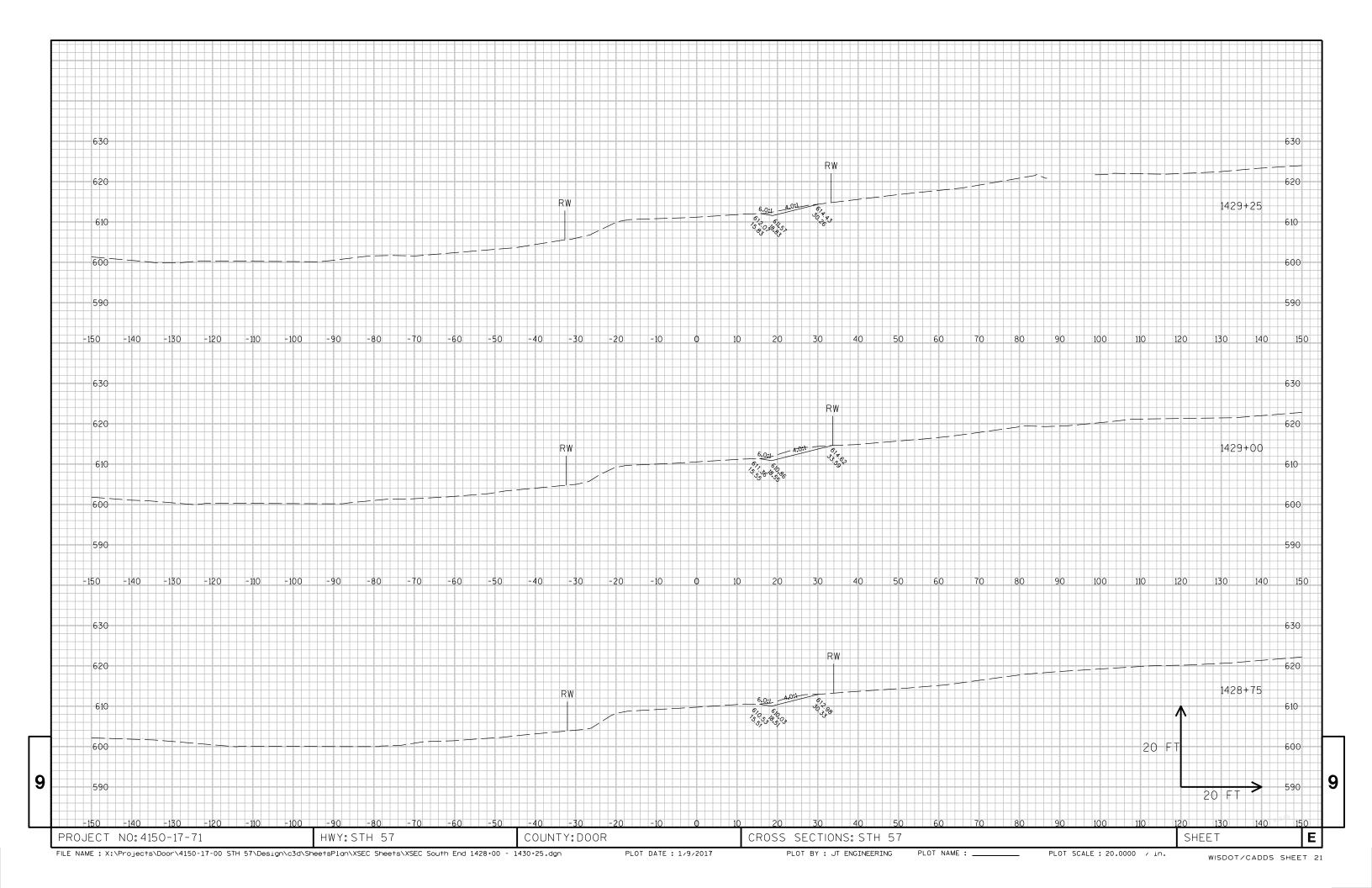
PROJECT NUMBER: 4150-17-71 HWY: STH 57 COUNTY: DOOR EARTHWORK QUANTITIES SHEET

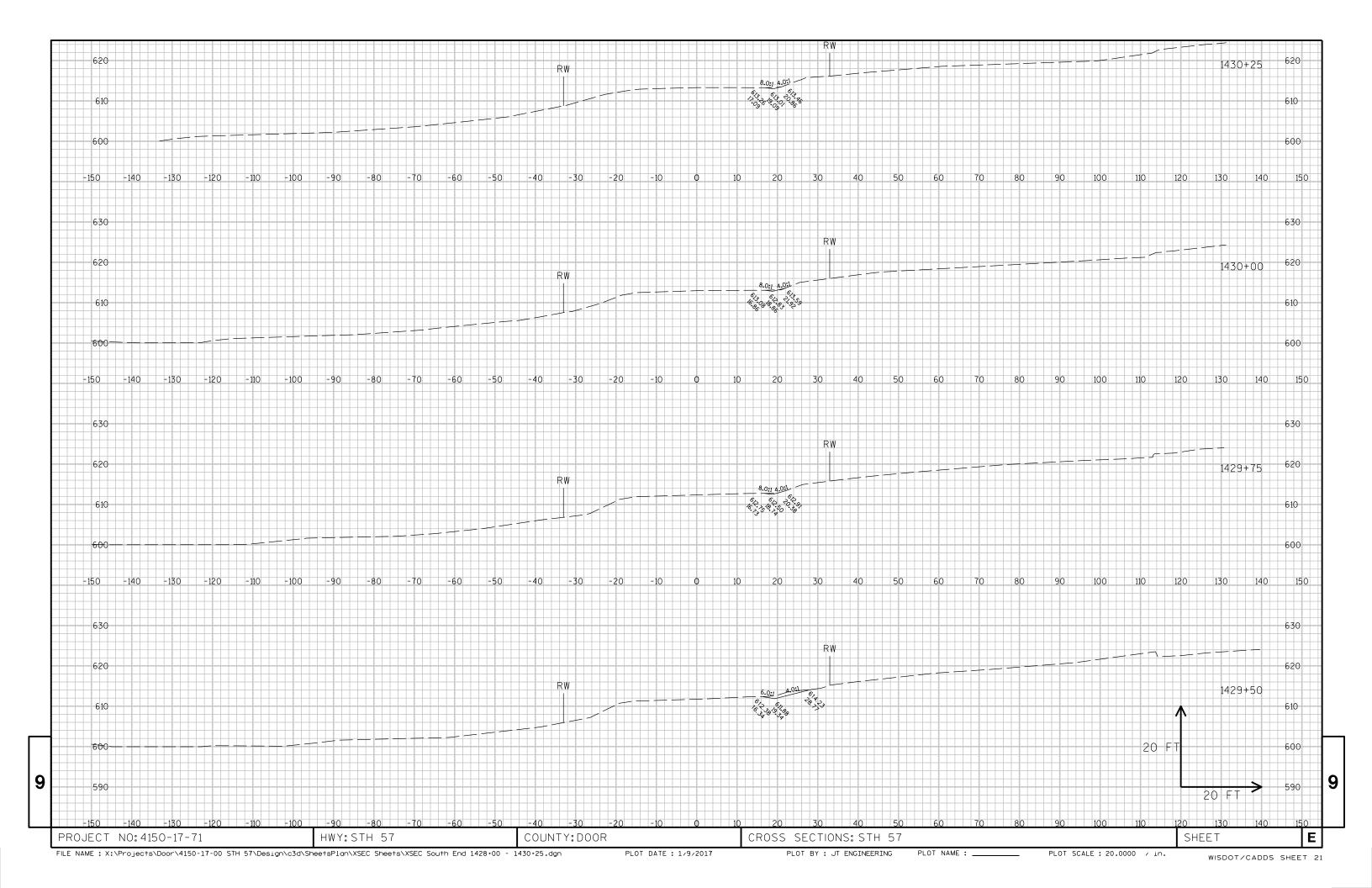
			STH	57 EARTHWOR	K DETAIL CON	IT.			
		AREA (SF)	<u>~</u>		L VOLUME (CY)		CUMULATI VE	VOLUME (CY)	
STATI ON	CUT	SALVAGED / UNUSABLE PAVEMENT MATERI AL	FILL	CUT	SALVAGED / UNUSABLE PAVEMENT MATERI AL	FILL	CUT 1. 00	EXPANDED FILL 1. 33	MASS ORDI NATE
1519+99. 99	0.00	0	0.00	0.00	0	0.00	56. 80	331. 00	- 274. 20
1520+00	1. 34	0	2. 83	0.00	0	0. 00	57	331	- 274
1520+50	32. 84	0	1. 21	31. 65	0	3. 74	88	336	- 248
1521+00	49. 09	0	0. 60	75. 86	0	1. 68	164	338	- 174
1521+50	42. 74	0	0. 39	85. 03	0	0. 92	249	339	- 90
1522+00	31. 14	0	0. 10	68. 41	0	0. 45	318	340	- 22
1522+50	11. 44	0	0. 02	39. 43	0	0. 11	357	340	17
1522+75	11. 84	0	1. 04	10. 78	0	0. 49	368	341	27
1522+75. 01	0. 00	0	0. 00	0. 00	0	0. 00	368	341	27
1558+73. 99	0. 00	0	0. 00	0.00	0	0. 00	368	341	27
1558+74	0. 00	0	0. 00	0.00	0	0. 00	368	341	27
1559+00	14. 24	0	0. 26	6. 86	0	0. 13	375	341	34
1559+24	12. 54	0	0. 00	11. 90	0	0. 12	387	341	46
1559+50	10. 80	0	11. 24	11. 24	0	5. 41	398	348	50
1559+74	8. 90	0	17. 37	8. 76	0	12. 72	407	365	41
1560+00	9. 44	0	19. 83	8. 83	0	17. 91	416	389	26
1560+25	8. 90	0	22. 70	8. 49	0	19. 69	424	415	9
1560+50	9. 44	0	25. 33	8. 49	0	22. 24	433	445	- 12
1560+75	7. 94	0	26. 89	8. 05	0	24. 18	441	477	- 36
1561+00	7. 14	0	22. 21	6. 98	0	22. 73	448	507	- 60
1561+25	6. 90	0	21. 70	6. 50	0	20. 33	454	534	- 80
1561+50	8. 30	0	12. 88	7. 04	0	16. 01	461	556	- 94
1561+75	6. 34	0	18. 19	6. 78	0	14. 38	468	575	- 107
1562+00	5. 90	0	18. 75	5. 67	0	17. 10	474	597	- 124
1562+15	5. 10	0	18. 78	3. 07	0	10. 48	477	611	- 135
1562+15. 09	0. 00	0	0. 00	0. 00	0	0. 00	477	611	- 135
1562+56. 91	0. 00	0	0. 00	0. 00	0	0. 00	477	611	- 135
1562+57	4. 70	0	21. 96	0. 00	0	0. 00	477	611	- 135
1562+75	4. 90	0	17. 73	3. 21	0	13. 29	480	629	- 149
1563+00	6. 60	0	12. 32	5. 32	0	13. 91	485	648	- 162
1563+25	8. 20	0	8. 87	6. 85	0	9. 81	492	661	- 169
1563+47	7. 20	0	14. 85	6. 27	0	9. 66	498	673	- 175
1563+72	6. 60	0	16. 96	6. 39	0	14. 73	505	693	- 188
1563+97	7. 30	0	22. 18	6. 44	0	18. 12	511	717	- 206
1564+22	8. 64	0	20. 22	7. 38	0	19. 63	518	743	- 225
1564+47	6. 74	0	23. 95	7. 12	0	20. 45	526	770	- 245
1564+75	6. 24	0	14. 02	6. 73	0	19. 69	532	797	- 264
1564+98	6. 90	0	10. 38	5. 60	0	10. 39	538	810	- 273
1565+25	6. 70	0	7. 80	6. 80	0	9. 09	545	823	- 278
1565+45	6. 84	0	4. 32	5. 01	0	4. 49	550	829	- 279
1565+75	8. 24	0	1. 80	8. 38	0	3. 40	558	833	- 275
1566+06 1566+06. 01	7. 78	0	1. 18 0. 00	9. 20	0	1. 71 0. 00	567 567	835 835	- 268 268
	0.00	0		0.00	0		567 567	835 835	- 268 - 268
1759+49. 99	0.00	0	0. 00	0.00	{	0. 00	567	835 835	- 268 - 268
1759+50 1760+00	11. 64 11. 30	0	0. 00 0. 10	0. 00 21. 24	0	0. 00 0. 09	567 589	835 835	- 268 - 247
1760+50	11. 30	0	0. 10	20. 78	0	0. 09	609	836	- 247 - 226
1760+30	12. 44	0	0. 10	12. 66	0	0. 19	622	836	- 226 - 214
1761+00	12. 44	0	1. 10	9. 29	0	0. 03	631	836	- 214 - 205
1761+50	29. 74	0	0. 00	38. 13	0	1. 02	669	838	- 205 - 168
1762+00	28. 84	0	0.00	54. 24	0	0. 00	724	838	- 108 - 114
1762+50	9. 94	0	0. 00	35. 91	0	0.00	724 760	838	- 114 - 78
	9. 94	U	O. 12	*	•			000	- 70

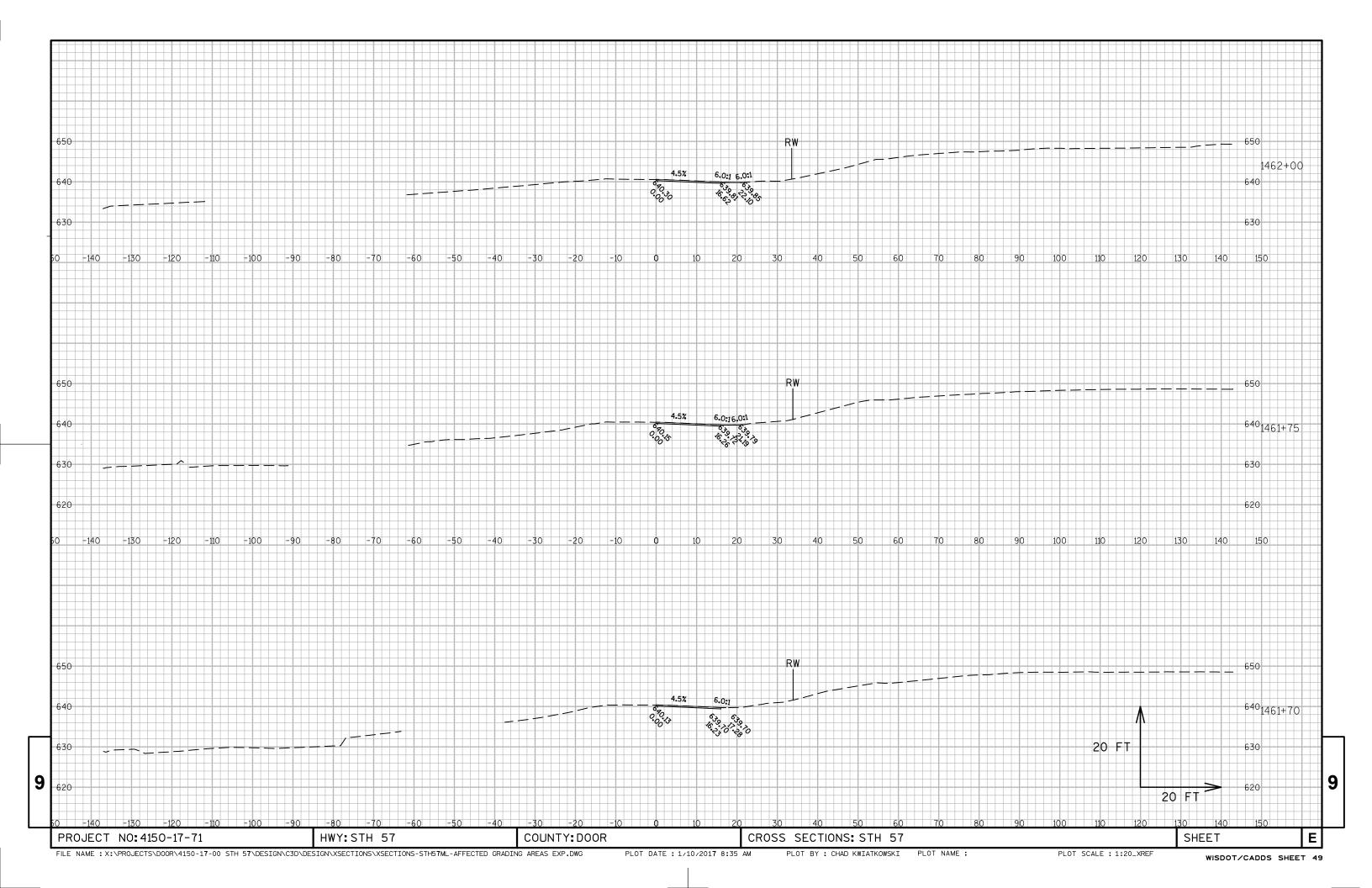
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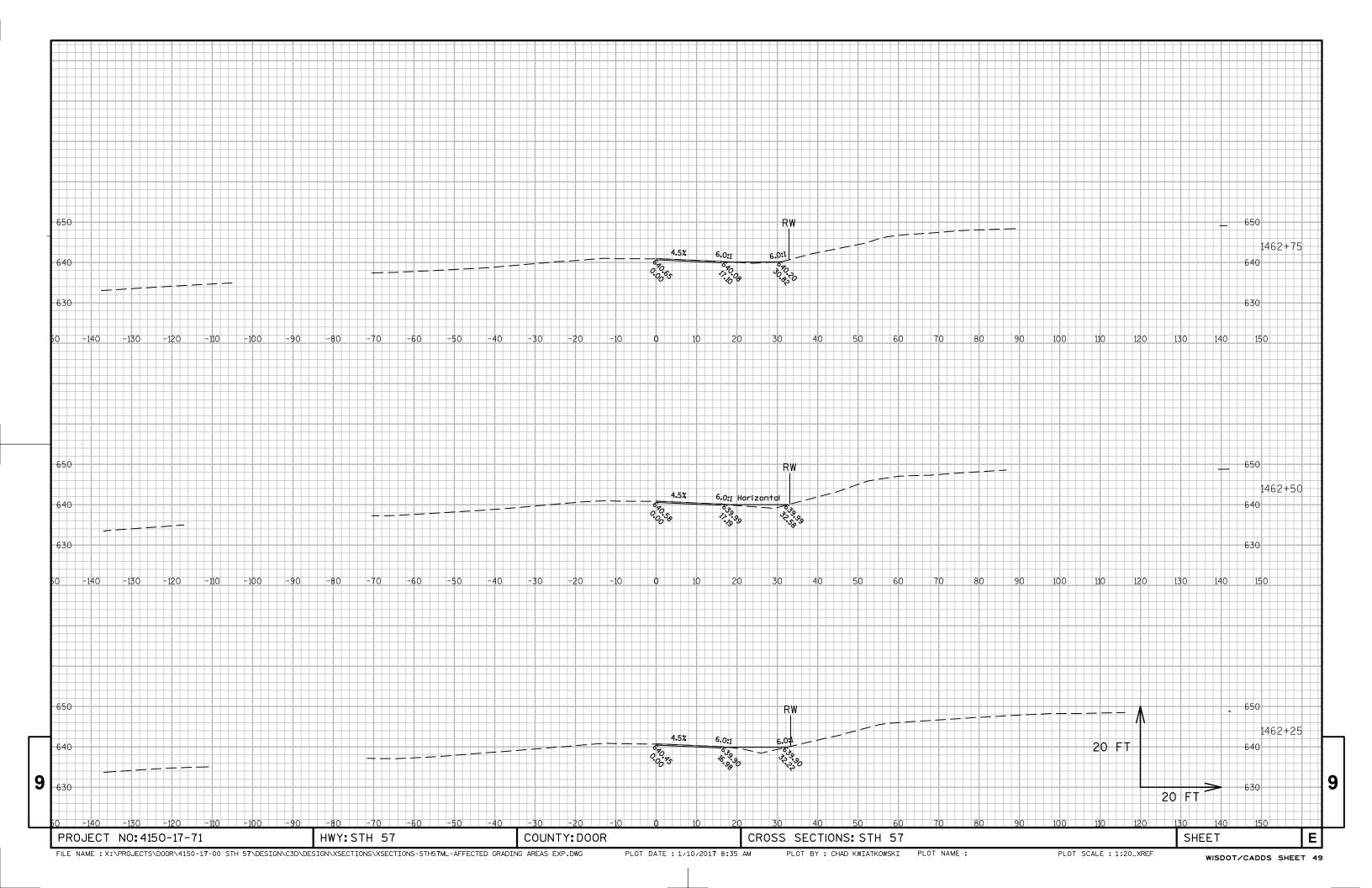
PROJECT NUMBER: 4150-17-71 HWY: STH 57 COUNTY: DOOR EARTHWORK QUANTITIES SHEET

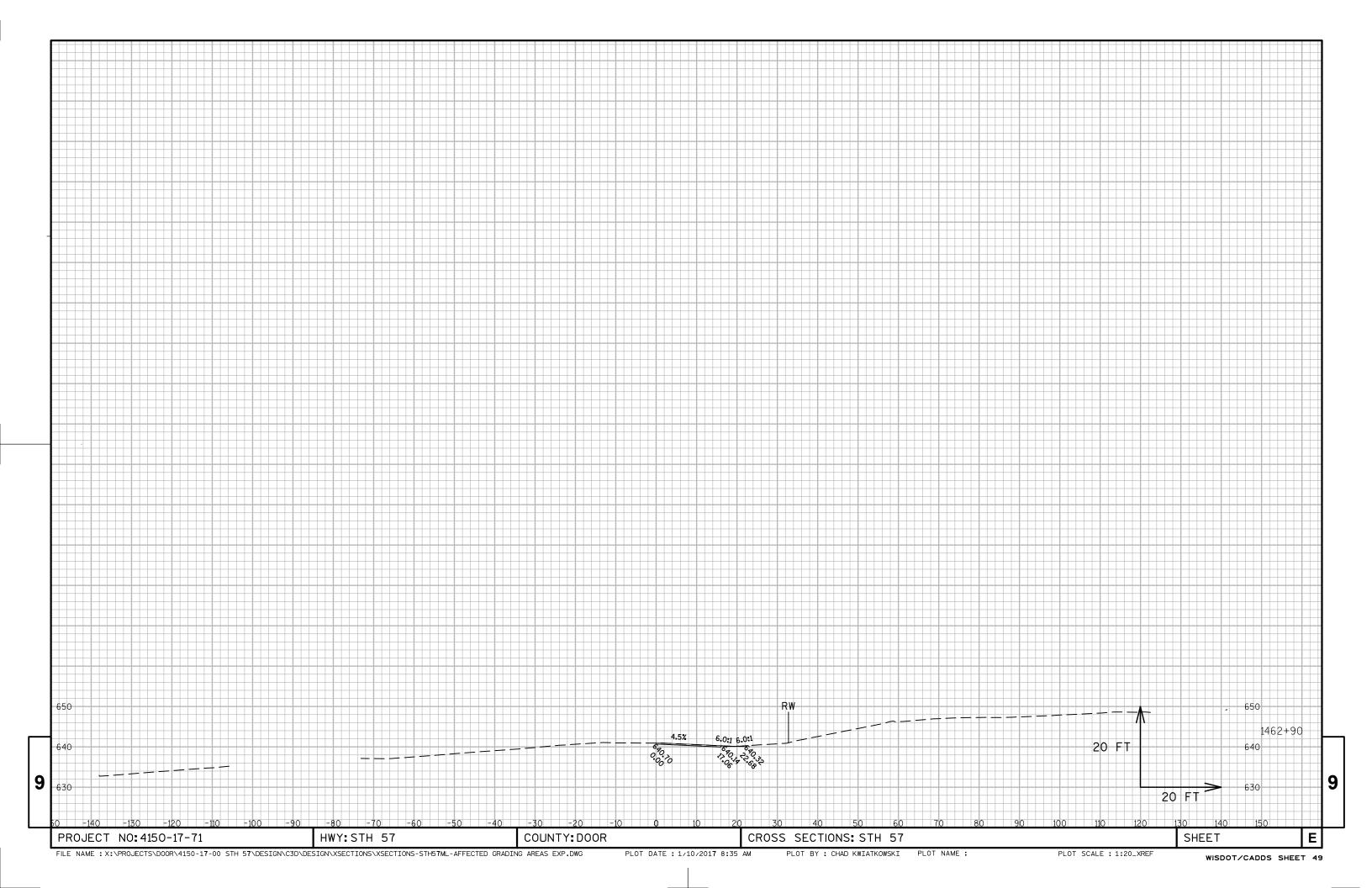


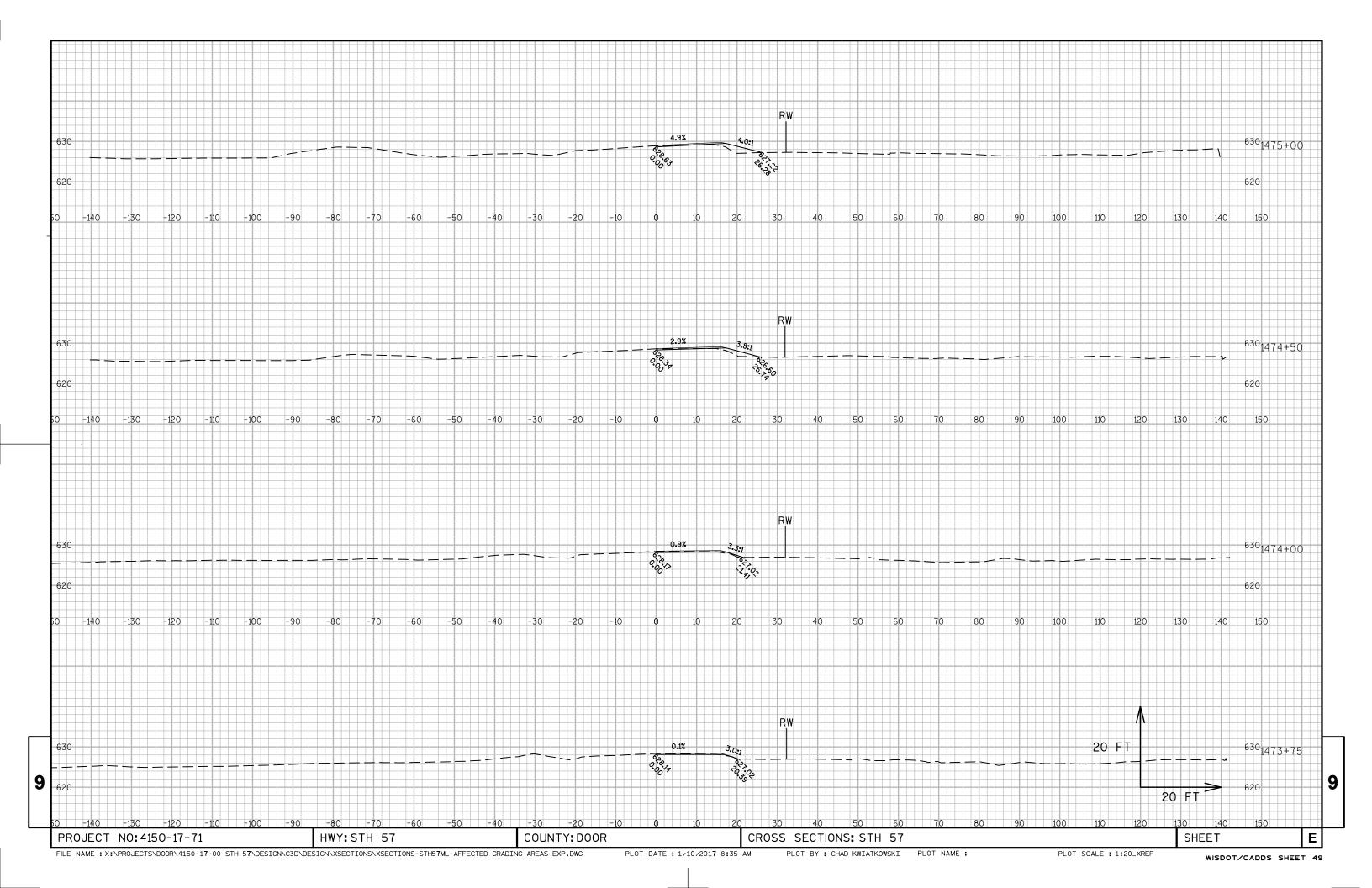


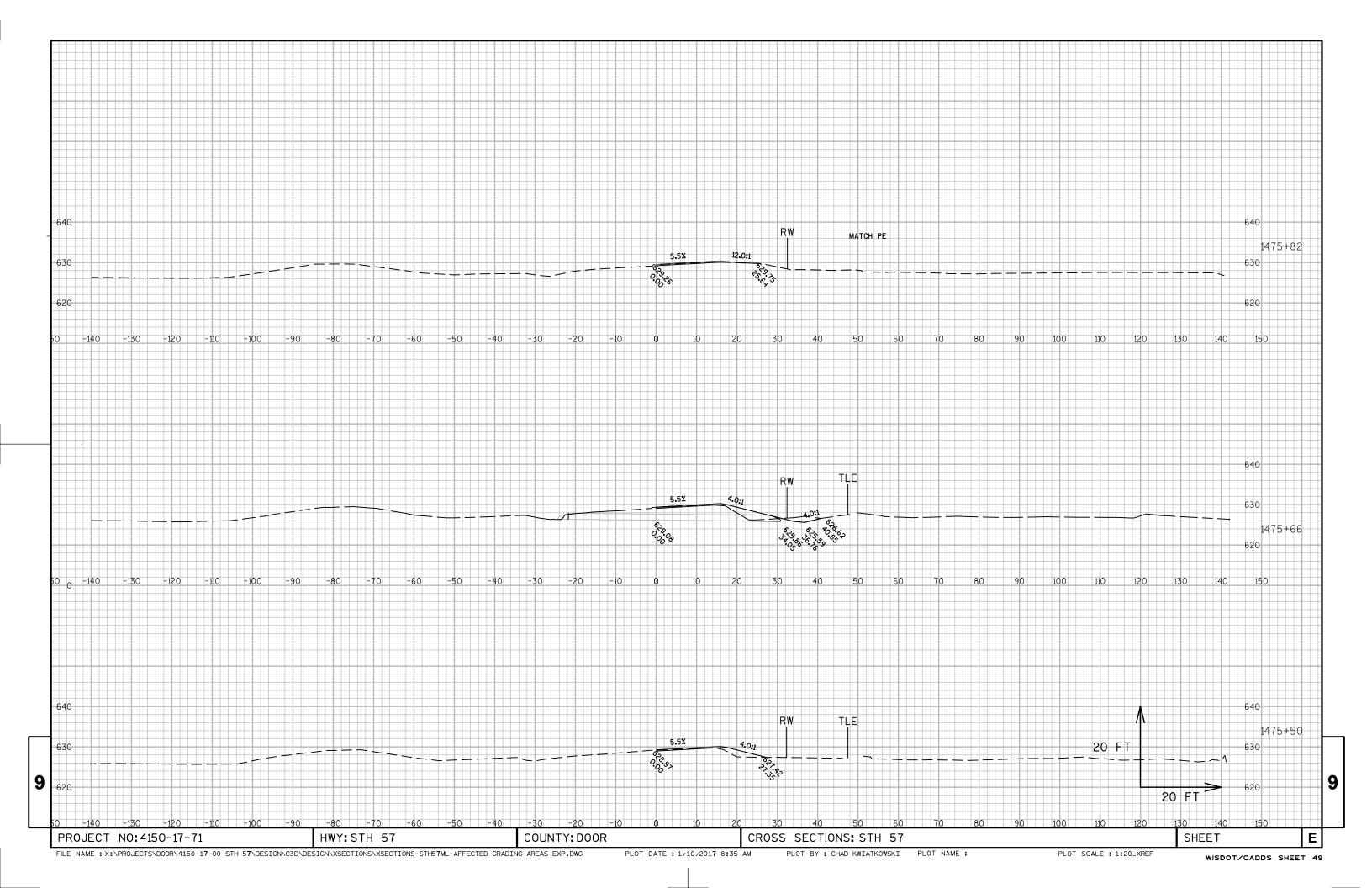


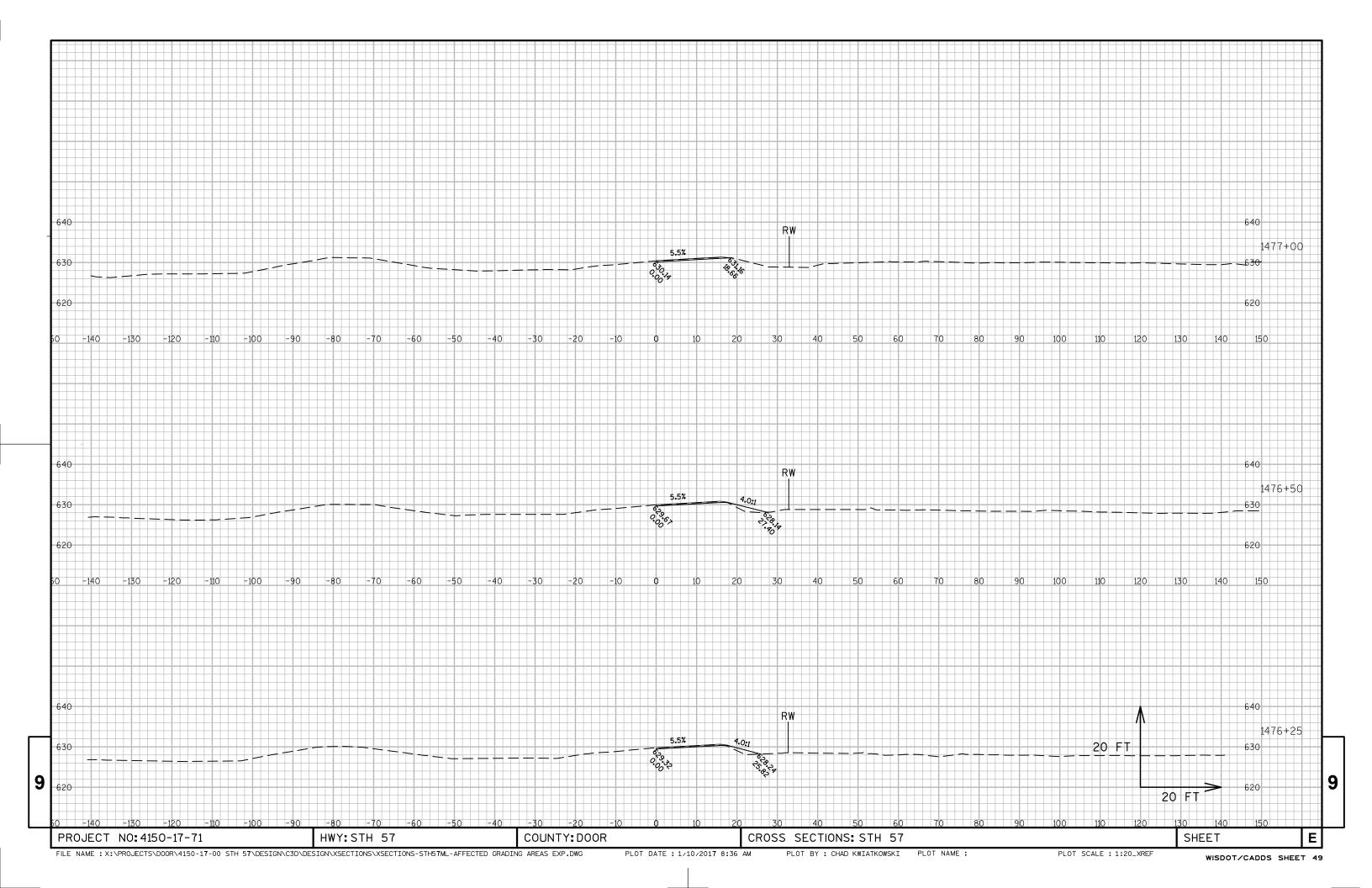


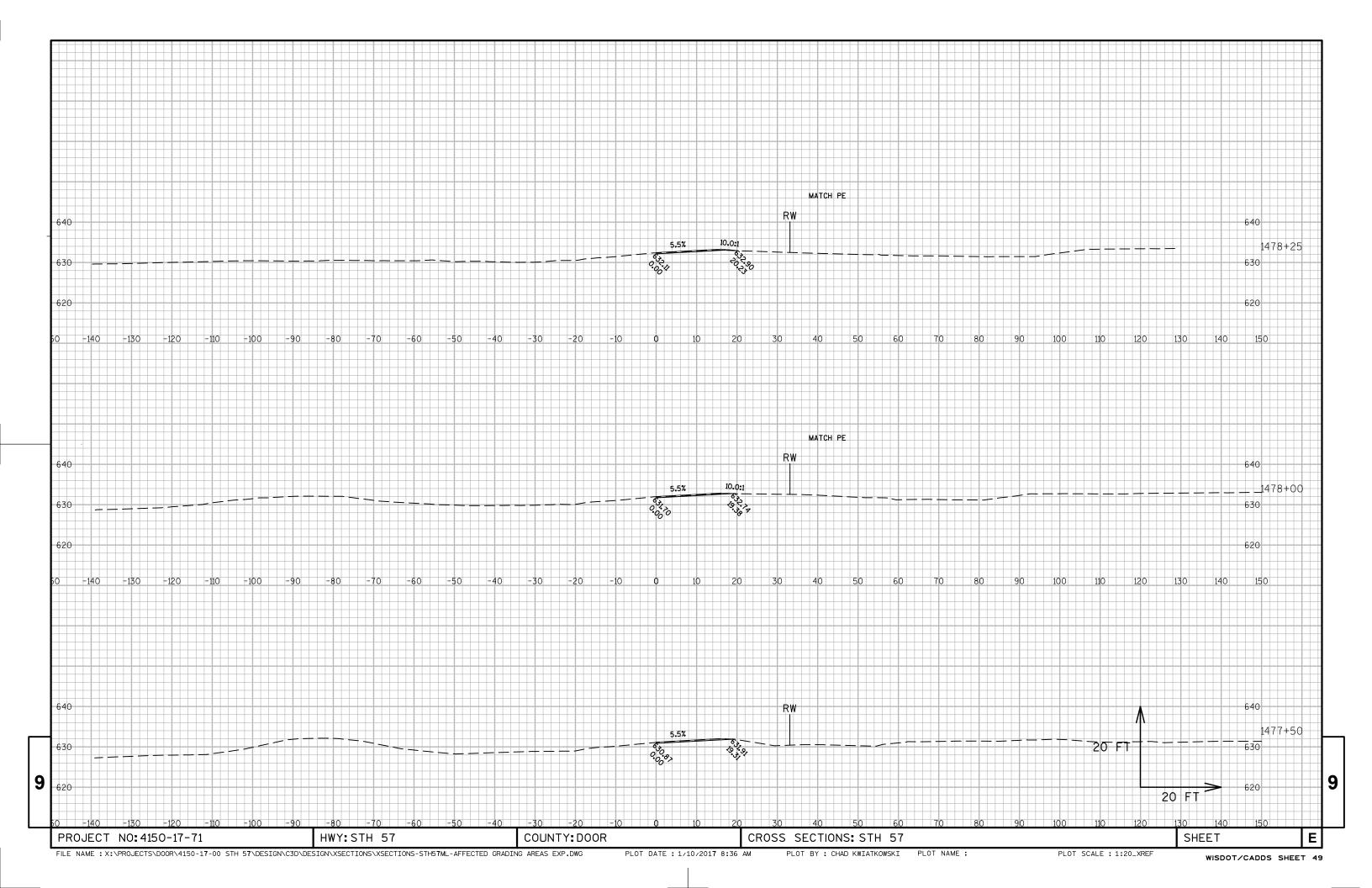


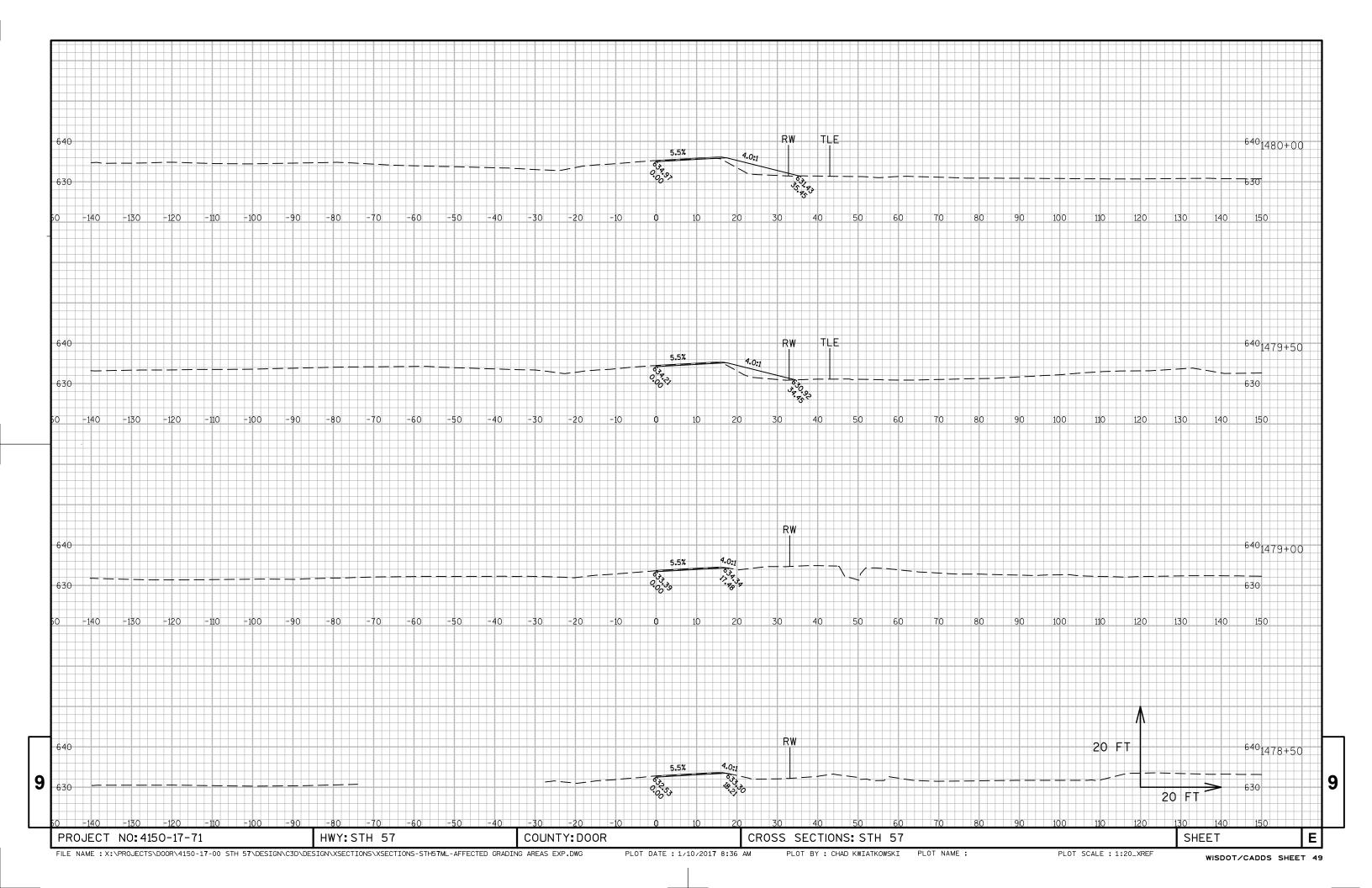


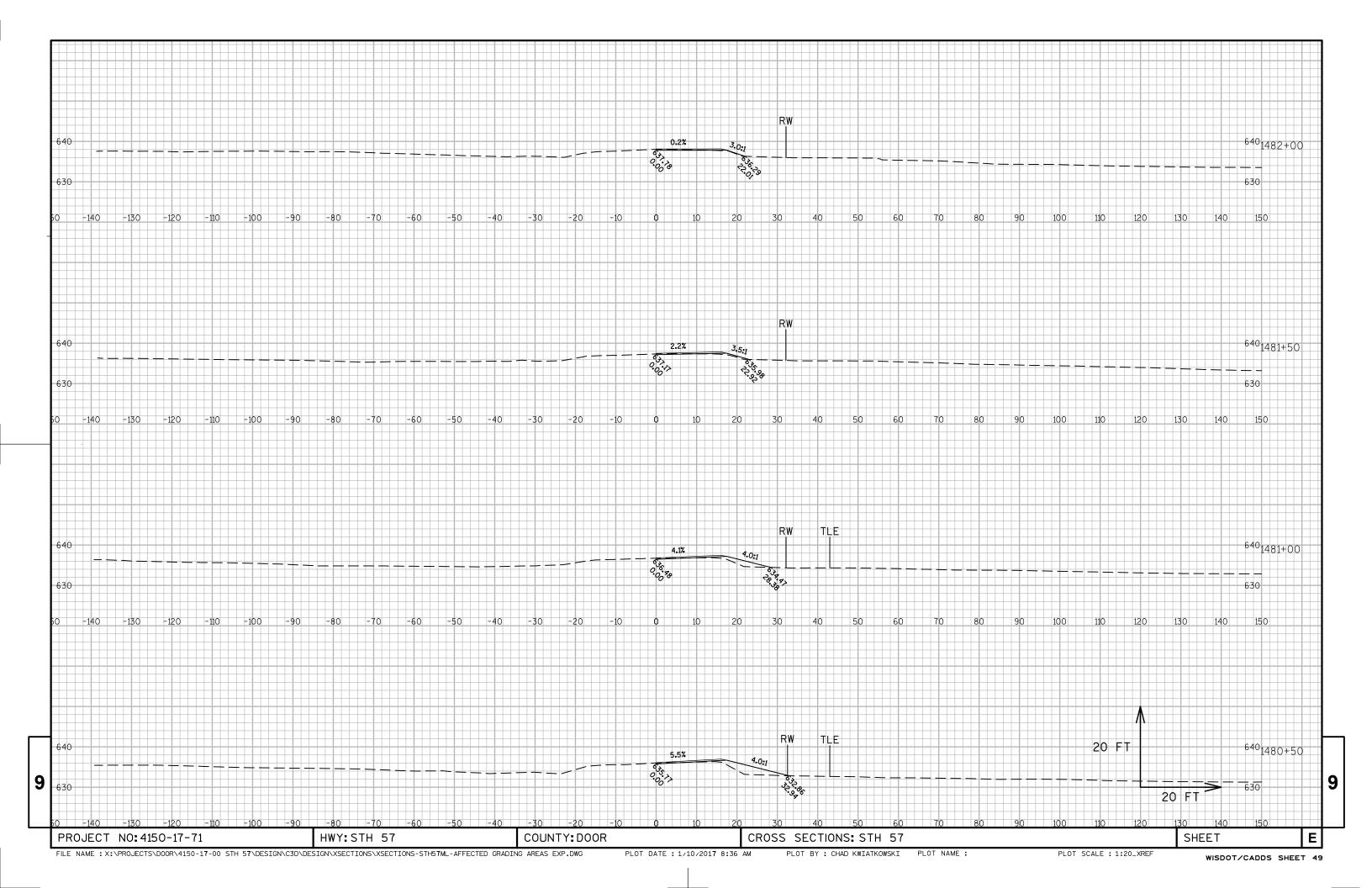


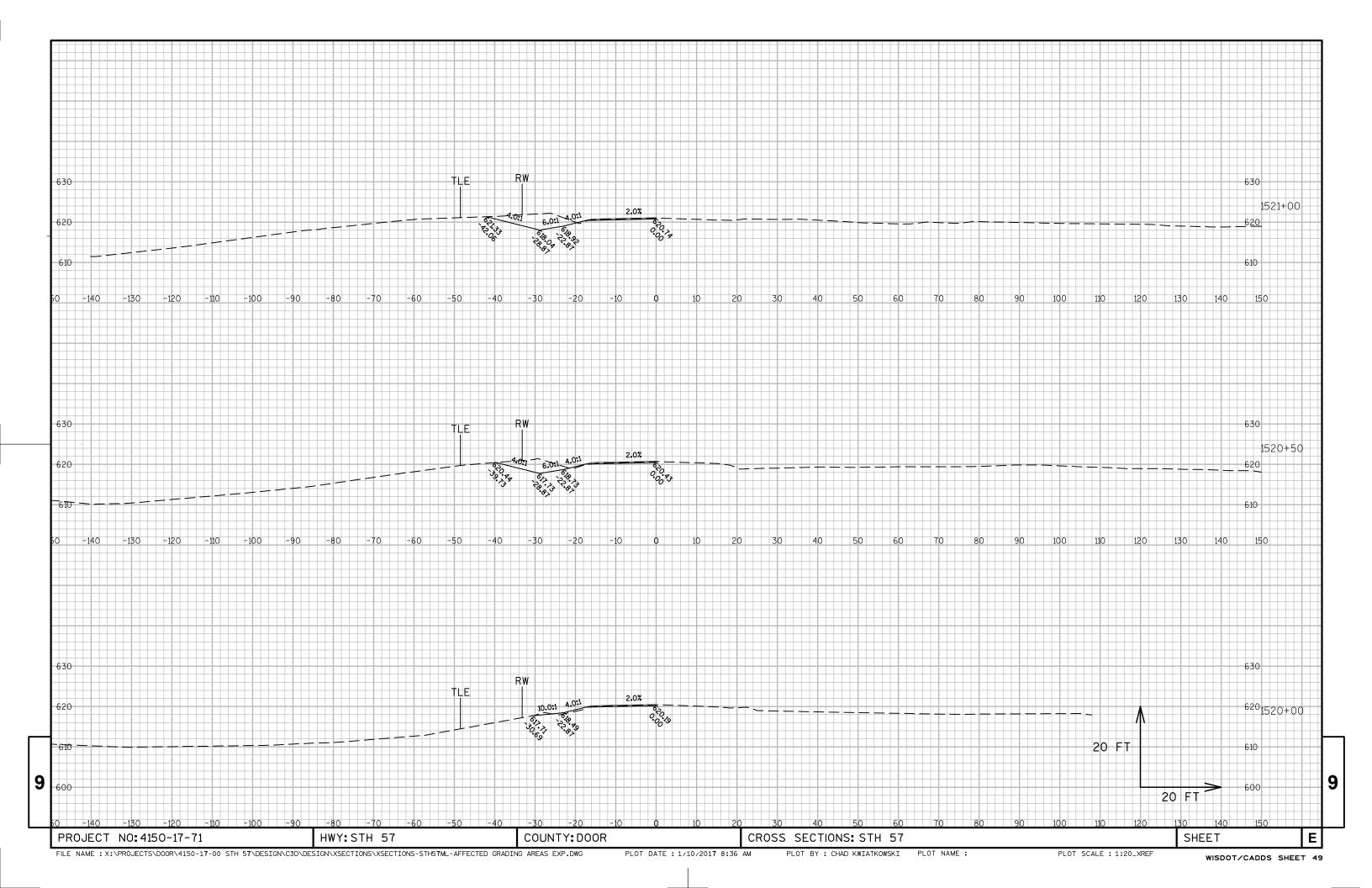


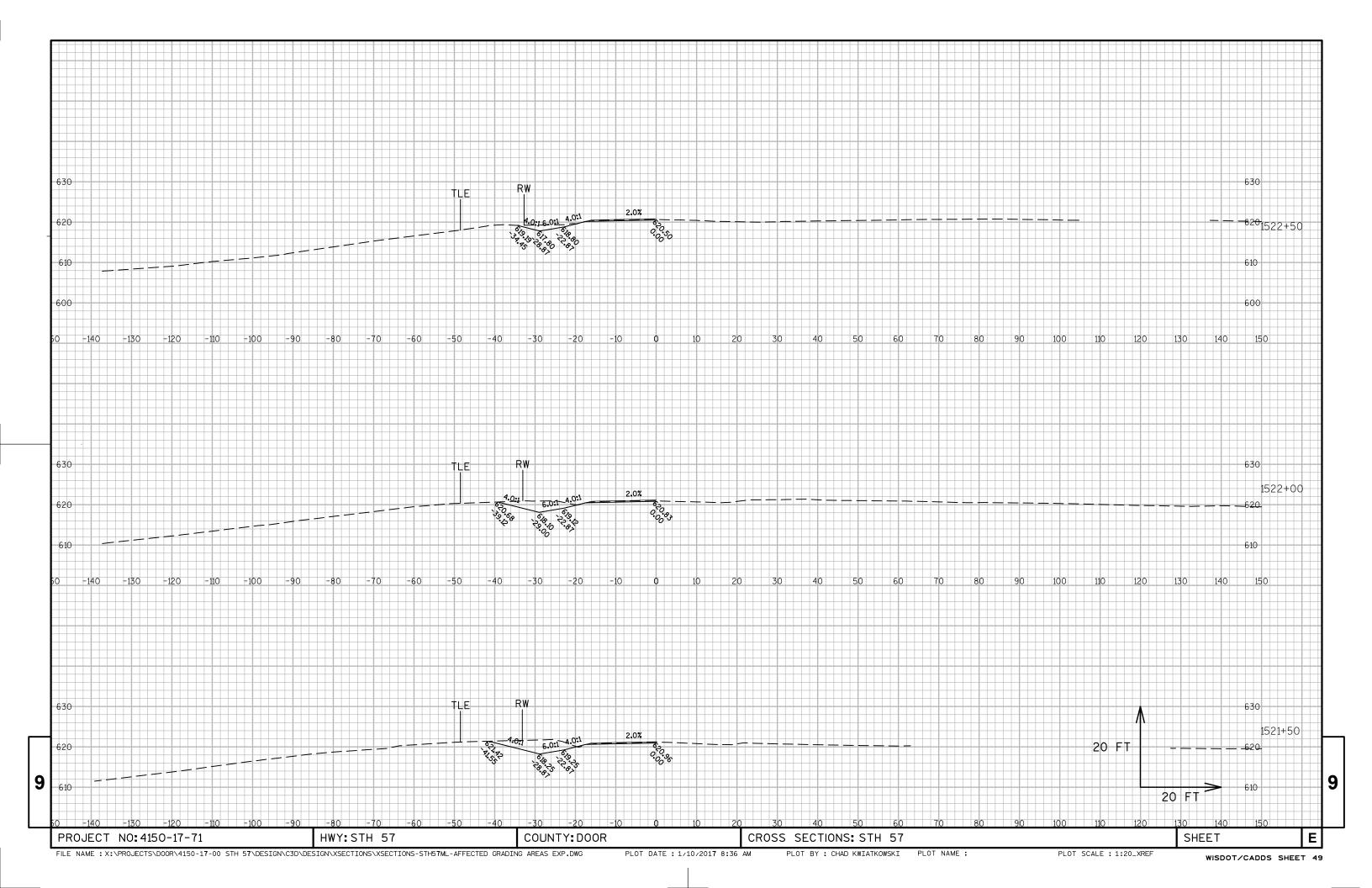


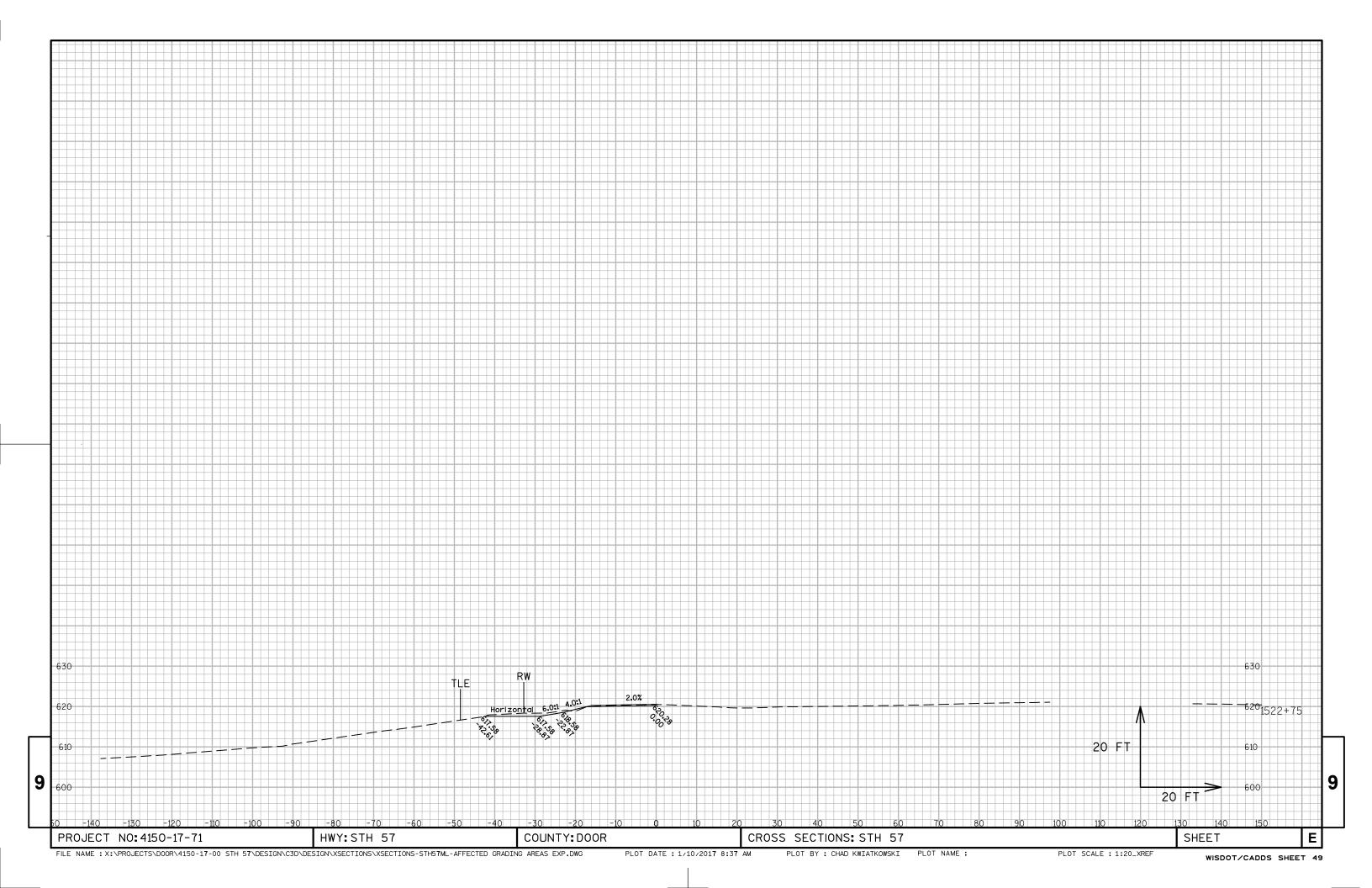


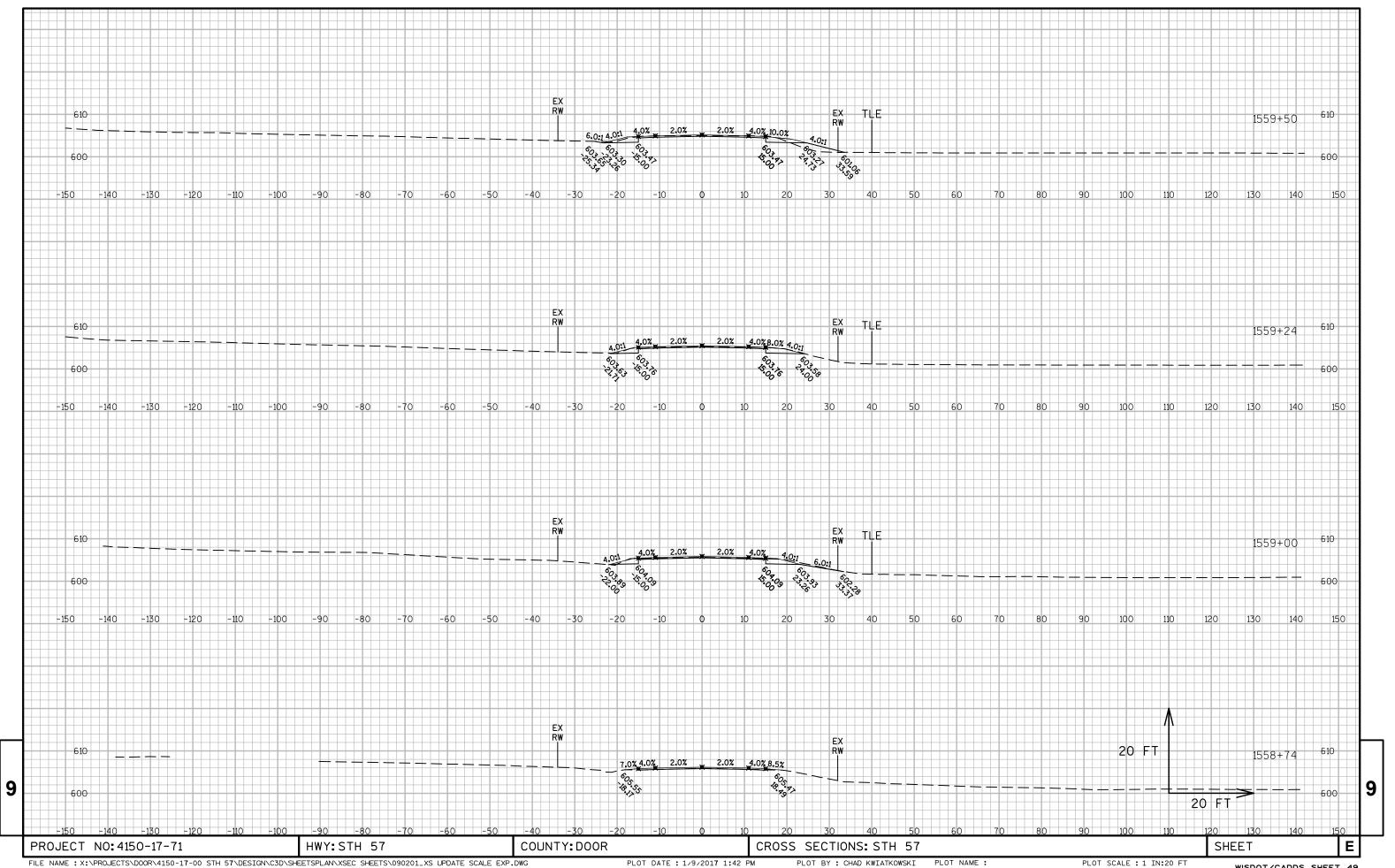


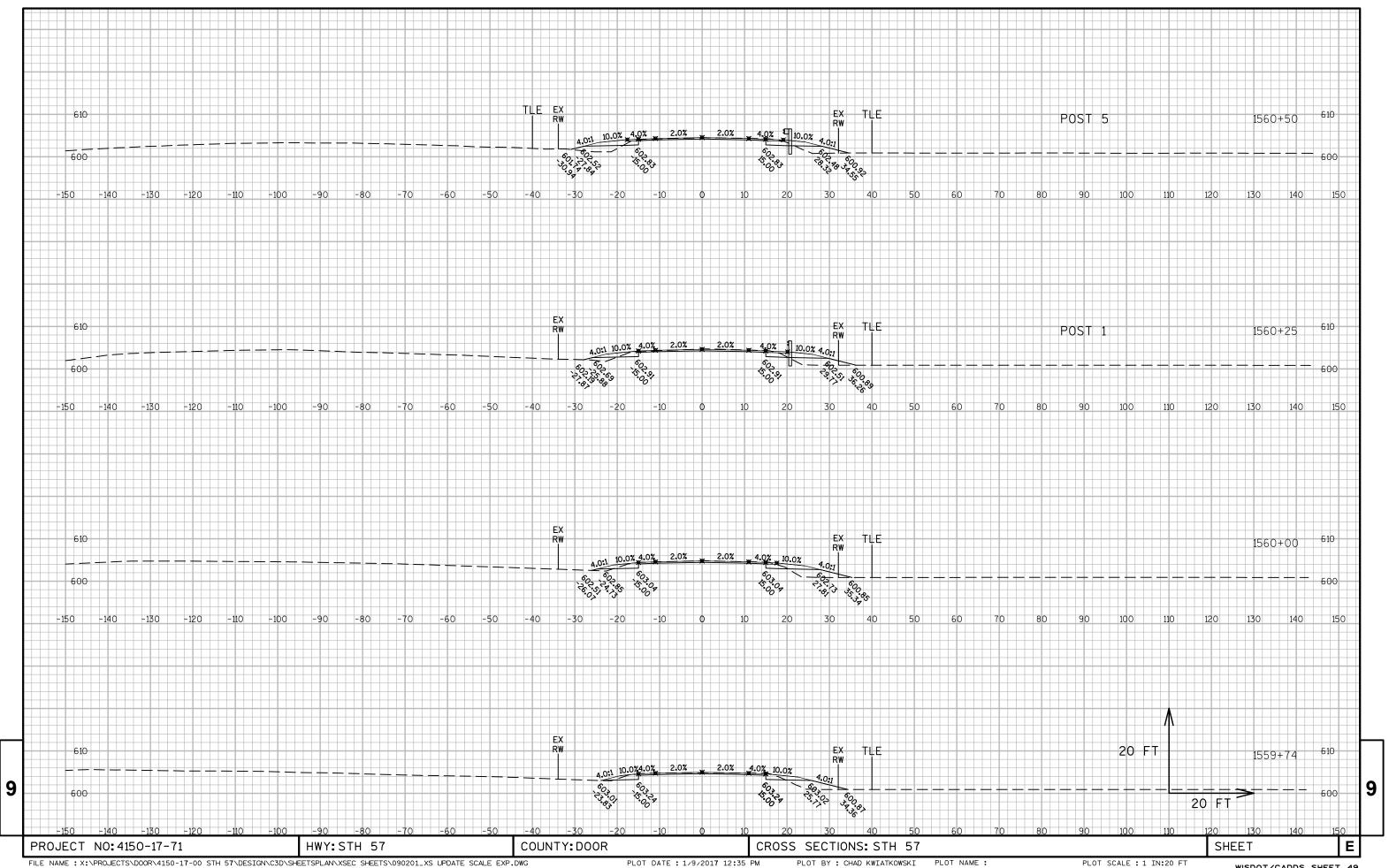


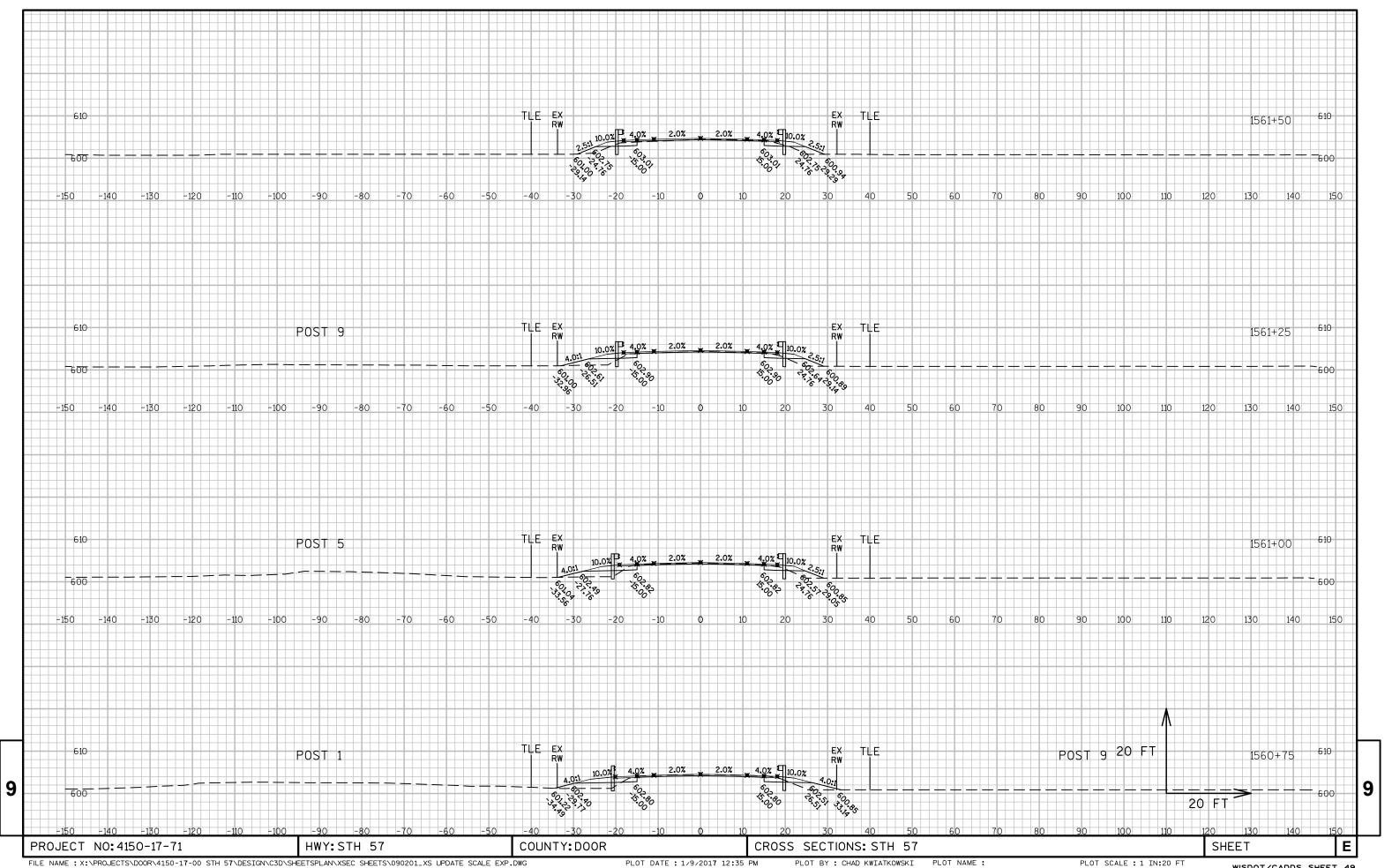


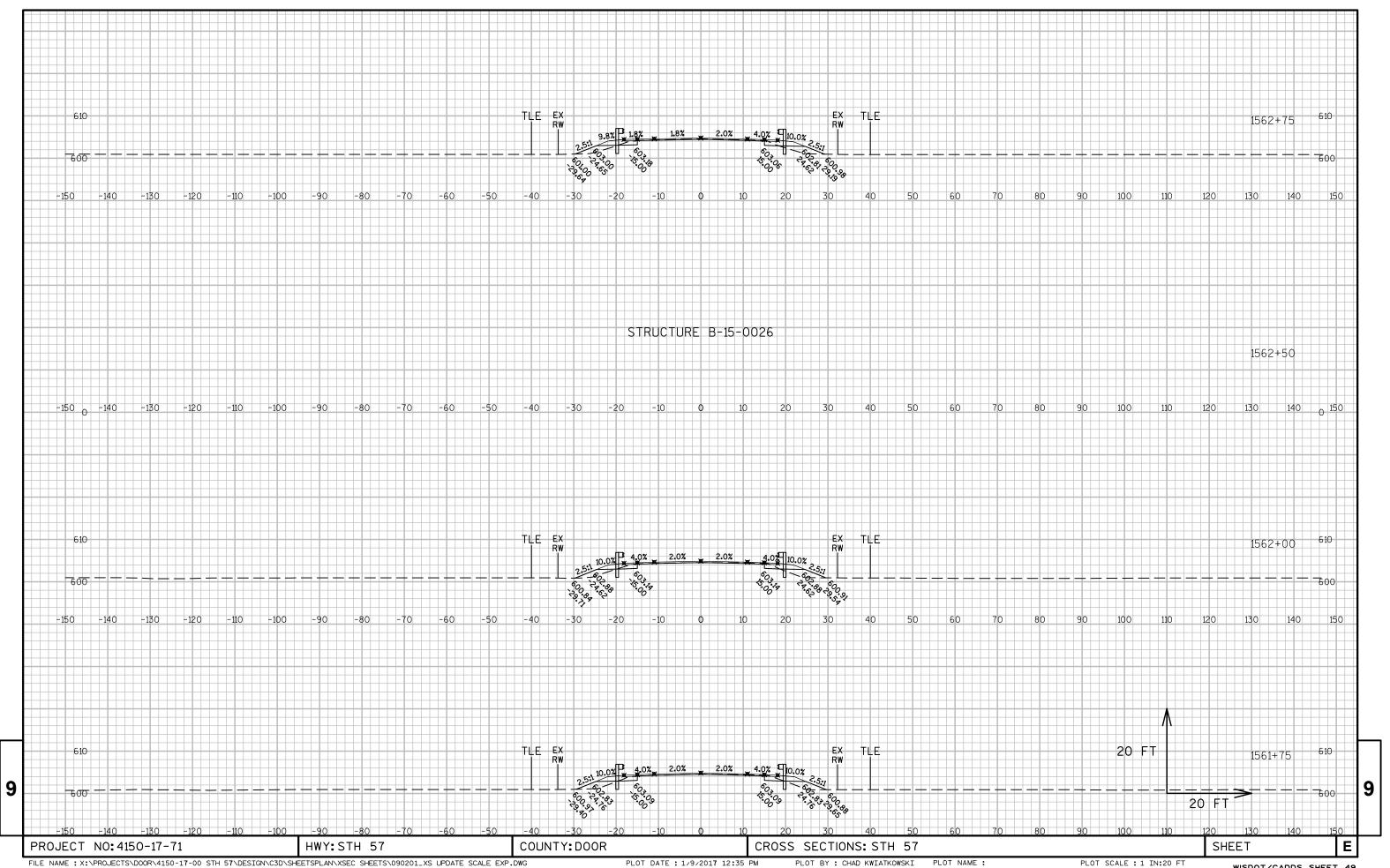


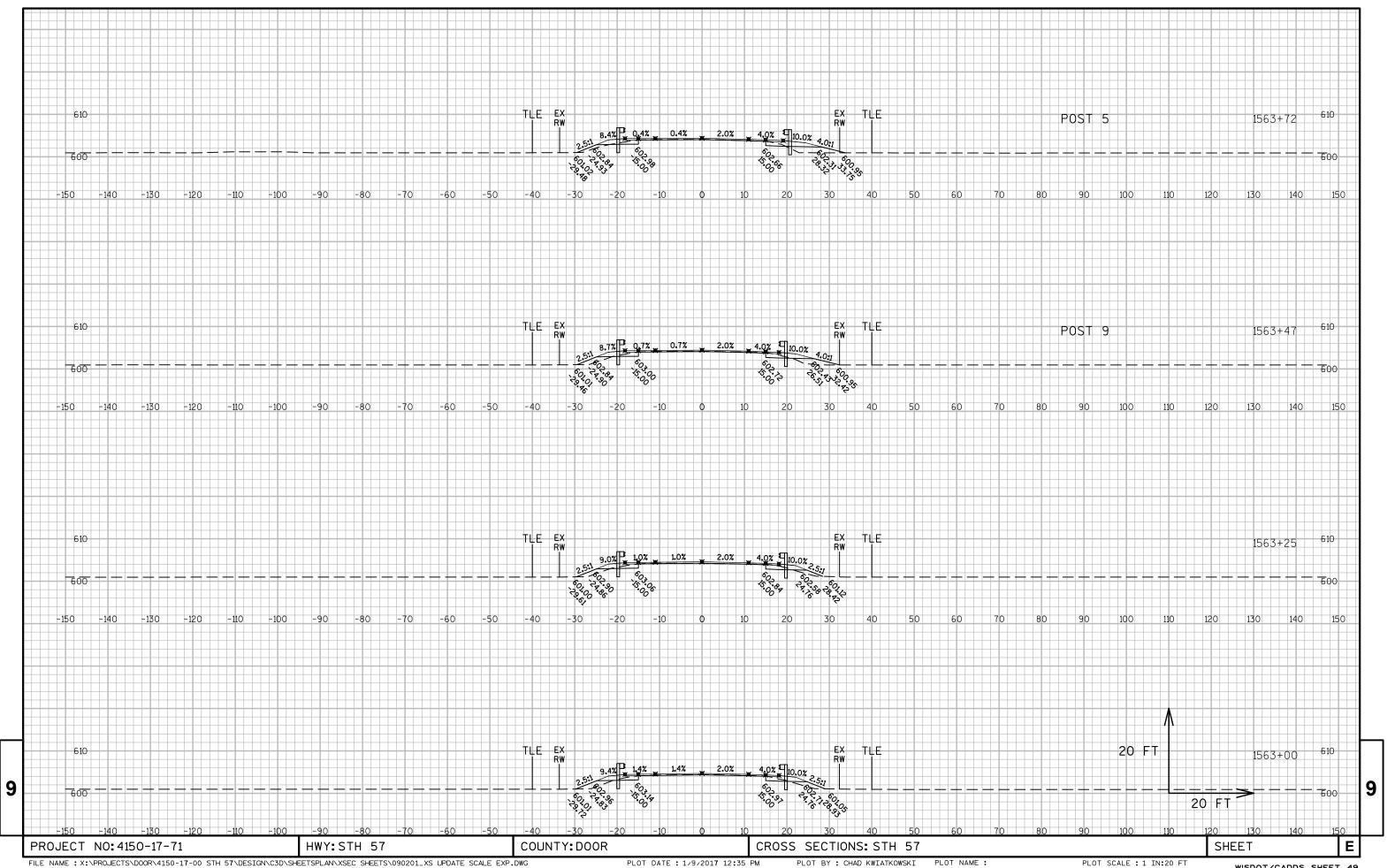


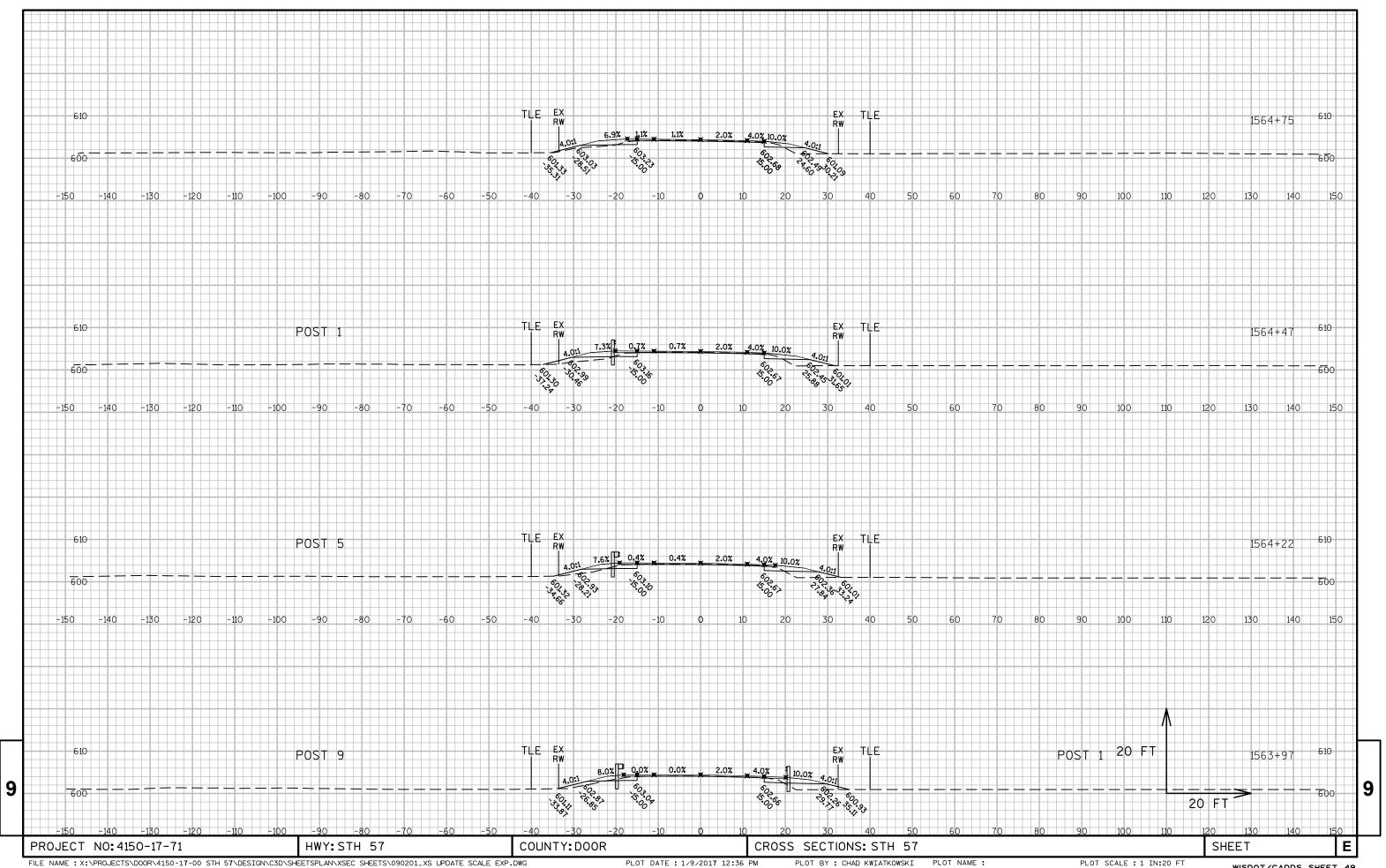


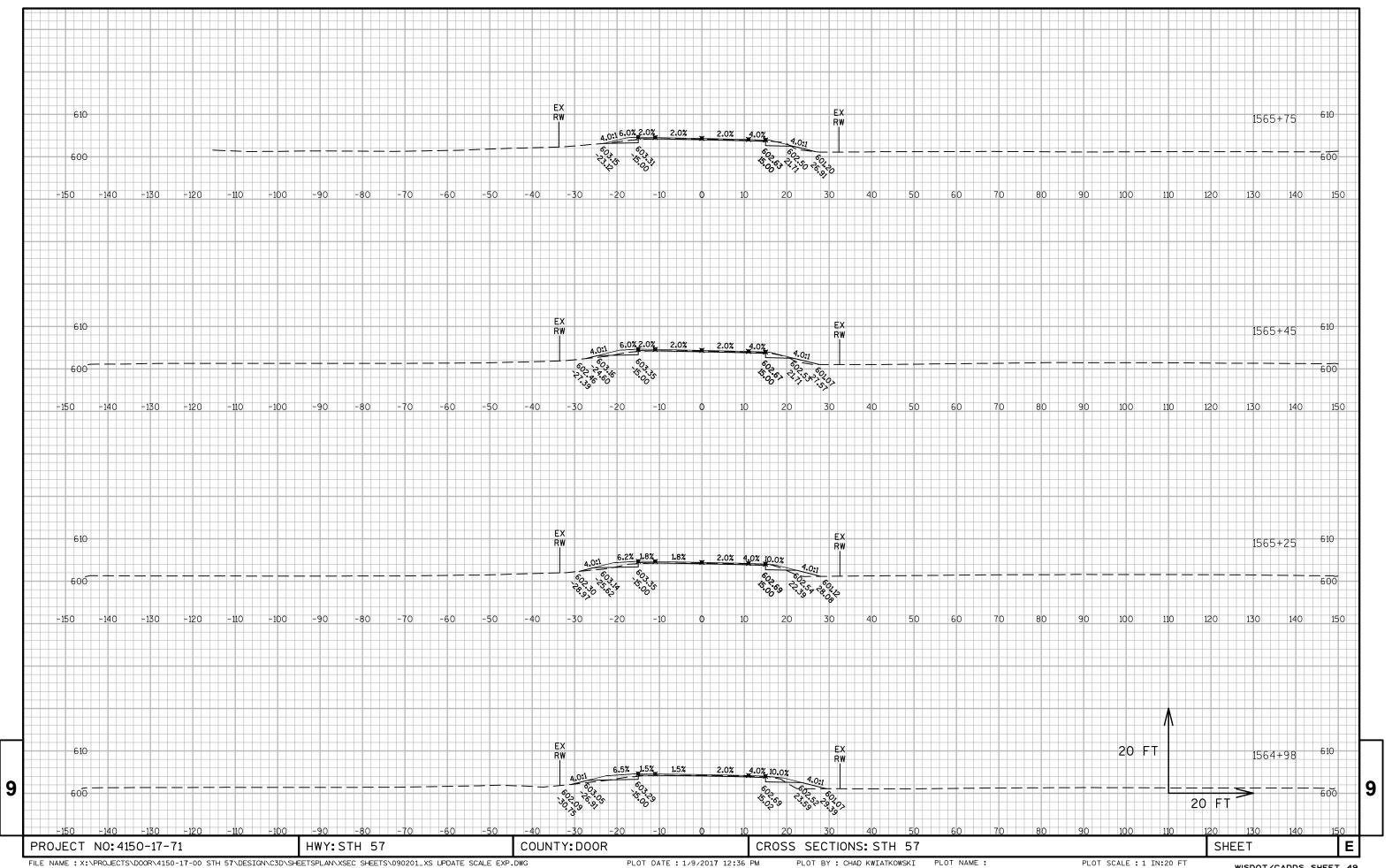


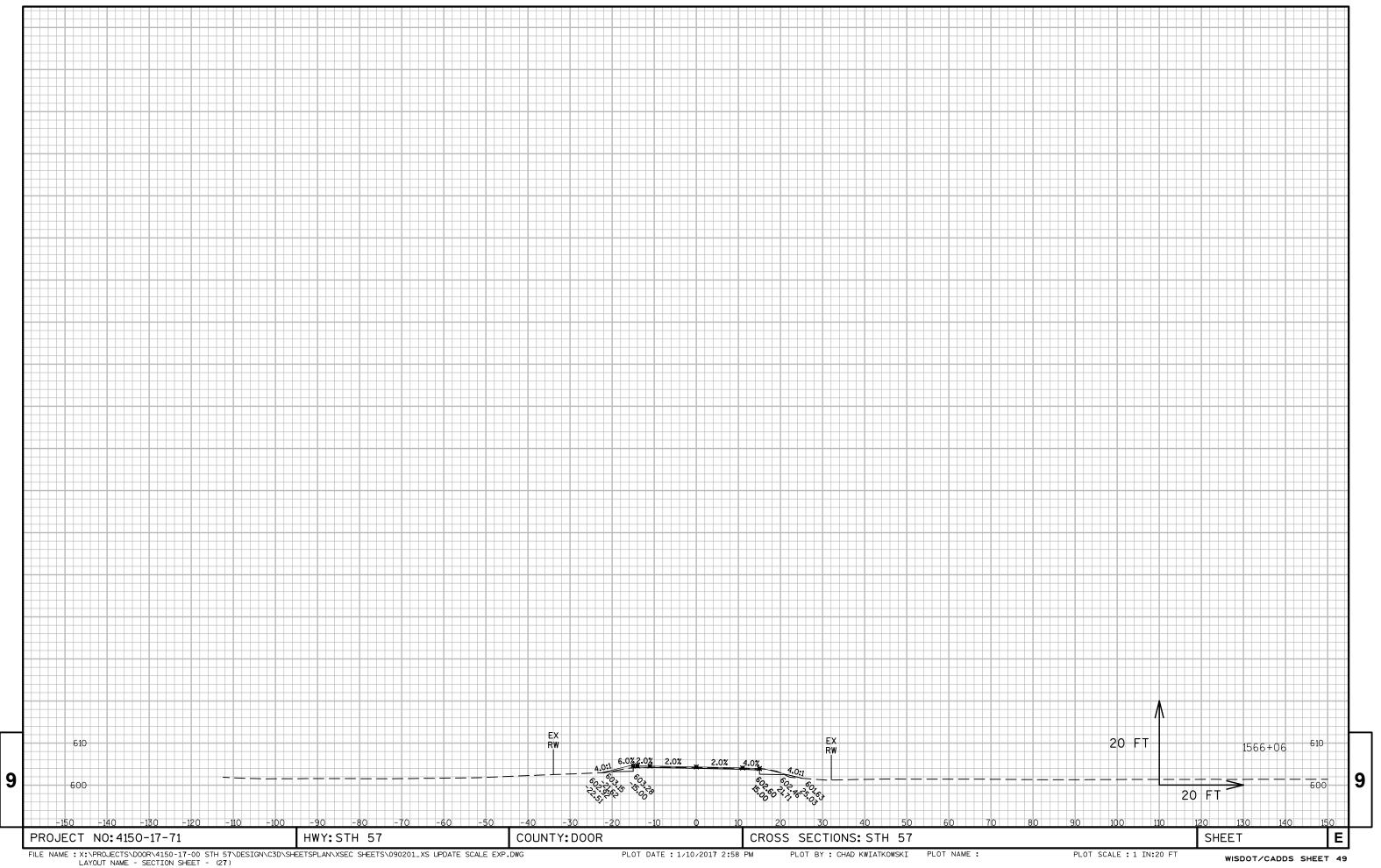


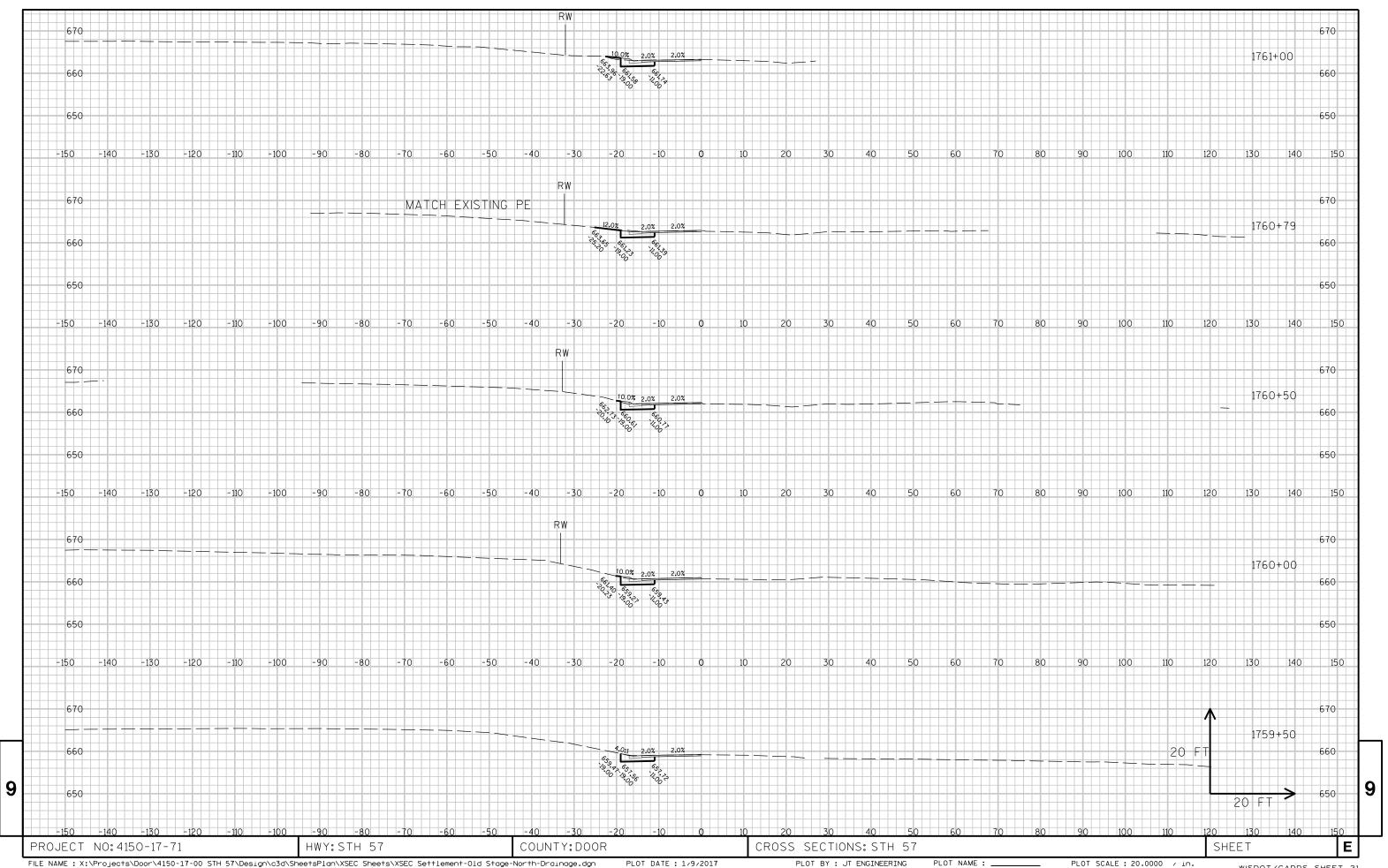


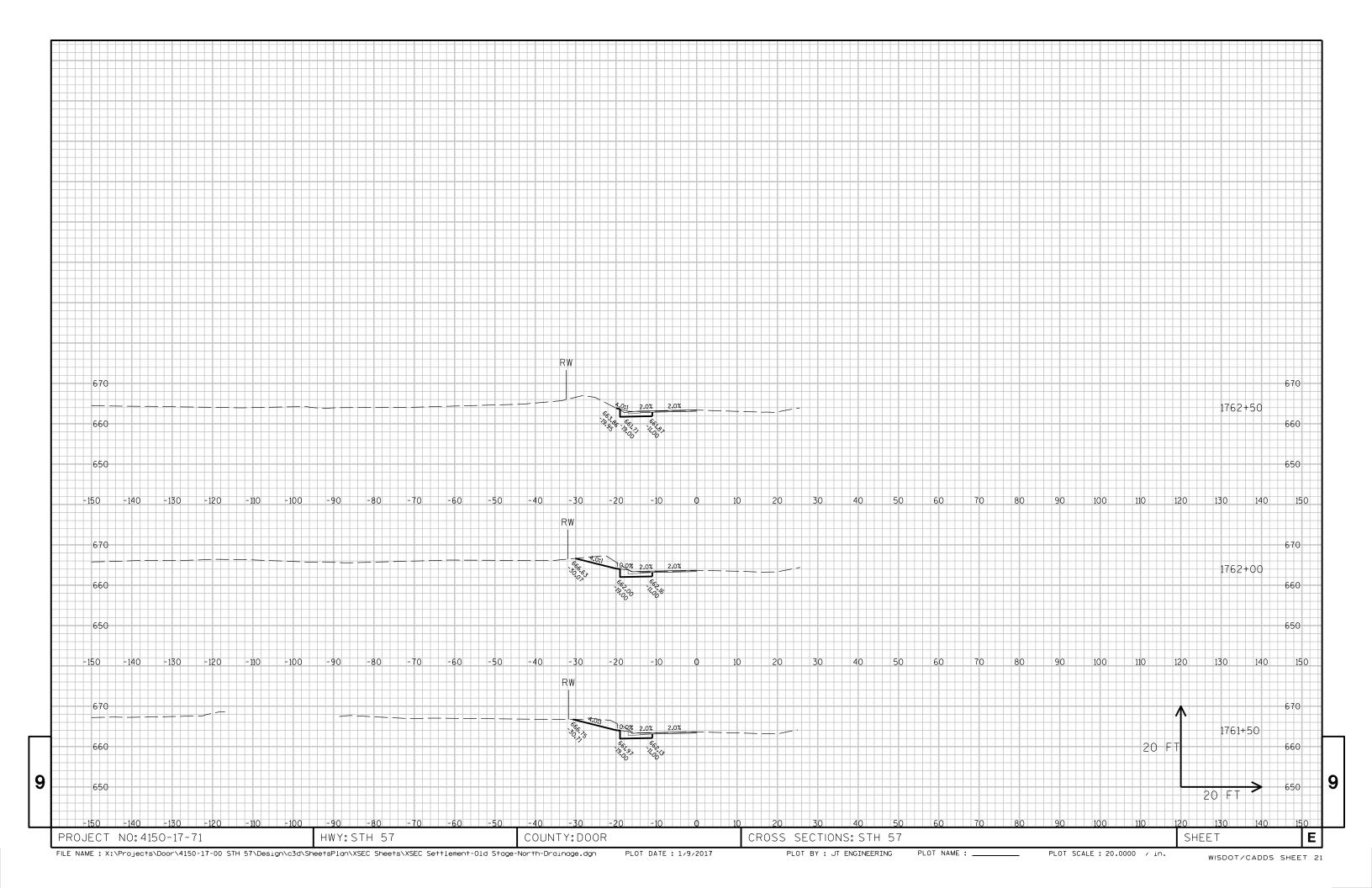














## Wisconsin Department of Transportation

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