LAU	WAT 2014			
- 1	ORDER	OF	SHEETS	

Section No. 1 Section No. 2 Typical Sections and Details Estimate of Quantities Miscellaneous Quantities Plan and Profile

Sign Plates

Cross Sections

Standard Detail Drawings

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 7255-05-72 WISC 2014208

PLAN OF PROPOSED IMPROVEMENT

CITY OF CHIPPEWA FALLS, BRIDGE STREET

CHIPPEWA RIVER TO RIVER STREET

STH 124 CHIPPEWA COUNTY

STATE PROJECT NUMBER 7255-05-72

PROJECT LOCATION

DESIGN DESIGNATION

Section No. 9

TOTAL SHEETS = 164

A.A.D.T. 2014 = 12,150 A.A.D.T. 2034 = 15,840 D.H.V. = 1,950 D.D. = 64/36 = 5.6% DESIGN SPEED = 25 MPH = 8,993,600

CONVENTIONAL SYMBOLS

CORPORATE LIMITS

MARSH AREA

WOODED OR SHRUB AREA

PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT COMBUSTIBLE FLUIDS

GRADE LINE MARSH OR ROCK PROFILE (To be noted as such) LABEL SPECIAL DITCH CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER WATER UTILITY PEDESTAL

PROFILE

POWER POLE

TELEPHONE POLE

BEGIN PROJECT STA 200+05.59'NB' Y=128013.0279 X=172835,7525

END PROJECT STA 210+50.60'NB'

Y=128873.0675 X=172262.4402

TOTAL NET LENGTH OF CENTERLINE = .174 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, CHIPPEWA COUNTY, NADB3 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES, GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

PLOT NAME :

EXCEPTION TO NET CENTERLINE LENGTH STA 203+85.84'NB' TO STA 205+10.44'NB' ACCEPTED FOR CITY of ___ CHIPPEWA FALLS ORIGINAL PLANS PREPARED BY: SEH

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY SUTVEYOR Desloner STACIE LAMBELLE DANIEL DJIBWAY C.O. Examiner

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\010101 TI.DWG

PLOT DATE : 1/28/2014 10:30 AM

PLOT BY : JUSTIN SHAVLIK

STANDARD ABBREVIATIONS:

ABUT	ABUTMENT	HYD	HYDRANT
AC	ACRE	ID	INSIDE DIAMETER
AGG	AGGREGATE	INV	INVERT
AECPRC	APRON ENDWALL FOR CULVERT PIPE	IP	IRON PIPE OR PIN
	REINFORCED CONCRETE	LHF	LEFT-HAND FORWARD
AECPCS	APRON ENDWALL FOR CULVERT PIPE	Ē.,,	LENGTH OF CURVE
ALC: 00	CORRUGATED STEEL	ĹF	LINEAR FOOT
ASPH	ASPHALTIC	LC	LONG CHORD OF CURVE
AVG	AVERAGE	LS	LUMP SUM
ADT	AVERAGE DAILY TRAFFIC	мн	MANHOLE
BF	BACK FACE	MOR	MID POINT OF RADIUS
ВМ	BENCH MARK	MCE	MARKERS CULVERT END
BR	BRIDGE	NC	NORMAL CROWN
CE	COMMERCIAL ENTRANCE	NO	NUMBER
CL OR C/L OR &	CENTER LINE	OBLIT	OBLITERATE
Δ	CENTRAL ANGLE OR DELTA	PAVT	PAVEMENT
CONC	CONCRETE	PE	PRIVATE ENTRANCE
CPRC	CULVERT PIPE REINFORCED CONCRETE		POINT OF VERTICAL REVERSE CURVE
CPCS	CULVERT PIPE CORRUGATED STEEL	QOR	QUARTER POINT OF RADIUS
CR	CREEK	R	RADIUS
CY	CUBIC YARD	REQ'D	REQUIRED
Č'& G		RES	RESIDENCE OR RESIDENTIAL
D	CURB AND GUTTER DEGREE OF CURVE	RHF	RIGHT-HAND FORWARD
DHV	DESIGN HOUR VOLUME	R/W	RIGHT-OF-WAY
DISCH	DISCHARGE	R	RIVER
DG	DITCH GRADE	RDWY	ROADWAY
DWY	DRIVEWAY	R/L OR R	REFERENCE LINE
Ιx	EAST GRID COORDINATE	SALV	SALVAGED
EAT	STEEL PLATE BEAM GUARD	SALV SAN SF SY SDD STA	SANITARY SEWER
	ENERGY ABSORBING TERMINAL	SF.	SQUARE FEET
EOR	END POINT OF RADIUS	CV	SQUARE YARD
EL	ELEVATION	CDD	STANDARD DETAIL DRAWINGS
	ELEVATION	SDD STA	
ENT			STATION
ESALS	EQUIVALENT SINGLE AXLE LOADS	SS	STORM SEWER
EXC	EXCAVATION	SSPRC	STORM SEWER PIPE REINFORCED
EBS	EXCAVATION BELOW SUBGRADE		CONCRETE
EXIST	EXISTING	SE	SUPERELEVATION RATE
FC	FACE OF CURB	TC	TOP OF CURB
FF	FACE TO FACE	T OR TN	TOWN
FERT	FERTILIZE	T	TRUCKS (PERCENT OF)
FE	FIELD ENTRANCE	TYP	TYPICAL
FL	FLOW LINE	VAR	VARIABLE
F0	FIBER OPTIC	VC	VERTICAL CURVE
CWT	HUNDREDWEIGHT	Υ	NORTH GRID COORDINATE
i		YD	YARD
i			
CONTROL TIES:			

GENERAL NOTES:

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE APPROXIMATE USGS DATUM.

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

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

ALL CURB AND GUTTER RADII, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF

ALL SIDE ROAD EARTHWORK QUANTITIES ARE INCLUDED IN MAINLINE EARTHWORK QUANTITIES.

A VERTICAL SAWCUT SHALL BE MADE THOUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL I IMIT.

TOP OF CASTING ELEVATIONS SHOWN FOR INLETS REFER TO THE CASTING ELEVATIONS AT THE FRONT EDGE CASTING/FLOWLINE OF GRATE/TOP OF CURB BOX.

ALL STORM SEWER INVERTS, ELEVATIONS, PIPE LENGTHS, AND GRADES ARE COMPUTED CENTER-TO-CENTER OF STRUCTURES.

EXCAVATION BELOW SUBGRADE (EBS) IS USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

CURB RAMP TYPE 1. 4B. 5 ARE SHOWN ON PLAN/INTERSECTION DETAIL SHEETS.

BEARINGS SHOWN ON THE PLAN ARE REFERENCED TO THE EXISTING ROADWAY CENTERLINE AND ARE

ITS BID ON ACTUAL FIELD CONDITIONS.

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

PLOT BY : JUSTIN SHAVLIK

UTILITY CONTACTS:

CHARTER COMMUNICATIONS 1201 MCCANN DRIVE ALTOONA, WI 54720 TELEPHONE: 715.831.8940 EXT. 619 ATTENTION: SHANE YODER EMAIL: SHANE.YODER@CHARTERCOM.COM

AT&T WISCONSIN 304 SOUTH DEWEY EAU CLAIRE, WI 54701 TELEPHONE: 715.839.5565 ATTENTION: RICK PODOLAK EMAIL: RP4514@ATT.COM

XCEL ENERGY - GAS PO BOX 8 1400 WESTERN AVENUE EAU CLAIRE, WI 54702 TELEPHONE: 715.737.2584 ATTENTION: SCOTT SEAHOLM

XCEL ENERGY - DISTRIBUTION 1400 WESTERN AVENUE EAU CLAIRE. WI 54702 TELEPHONE: 715.737.4040 ATTENTION: CATHERINE VANGORDEN DEUX

XCEL ENERGY - TRANSMISSION 414 NICOLLET MALL - MP8-C MINNEAPOLIS, MN 55401 TELEPHONE: 612.337.2341 ATTENTION: RONALD ZEMKE EMAIL: RONALD.P.ZEMKE@XCELENERGY.COM

CITY OF CHIPPEWA FALLS 30 W CENTRAL STREET CHIPPEWA FALLS, WI 54729 TELEPHONE: 715.726.2736 ATTENTION: RICK RUBENZER EMAIL:RRUBENZER@CHIPPEWAFALLWI.GOV

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN



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

NOTE: WIS. STATUTE 182,0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

HEARING IMPAIRED TDD (800) 542-2289

** NOT A MEMBER OF DIGGERS HOTLINE

DESIGN CONTACTS SEH INC. 421 FRENETTE DRIVE CHIPPEWA FALLS, WI 54729 TELEPHONE: 715.720.6266 ATTENTION: GREG WEYANDT EMAIL: GWEYANDT@SEHINC.COM

WDNR CONTACT

DNR NORTHERN REGION HQ 810 W. MAPLE STREET SPOONER, WI 54801 TELEPHONE: 715.635.4229 ATTENTION: AMY CRONK EMAIL: AMY.CRONK@WISCONSIN.GOV

SHFFT

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

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH TOPSOILED, SEEDED, FERTILIZED, AND MULCHED.

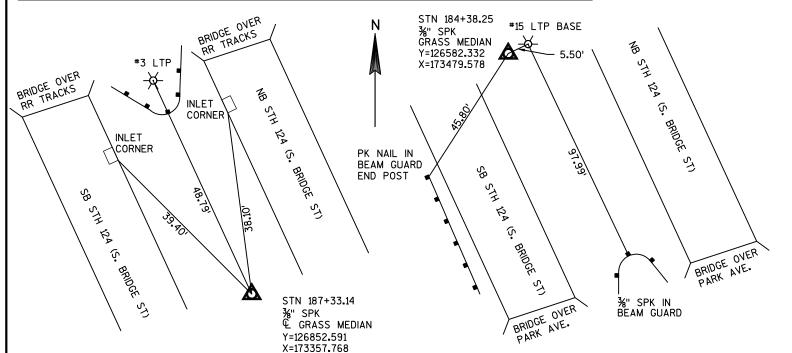
THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

PAVEMENT UNLESS NOTED OTHERWISE.

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

EXISTING PIPE CULVERT AND SIZES SHOWN ARE APPROXIMATE AND THE CONTRACTOR SHALL BASE

CONTROL HES:

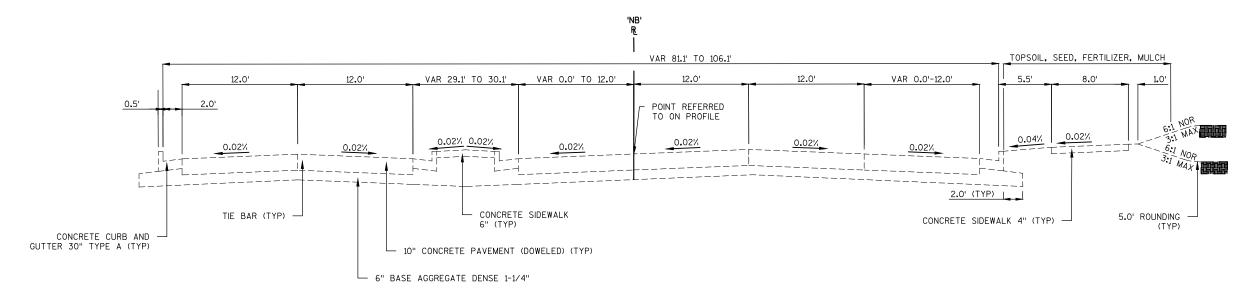


HWY: STH 124 (S. BRIDGE ST)

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\020101_GN.DWG

PROJECT NO: 7255-05-72





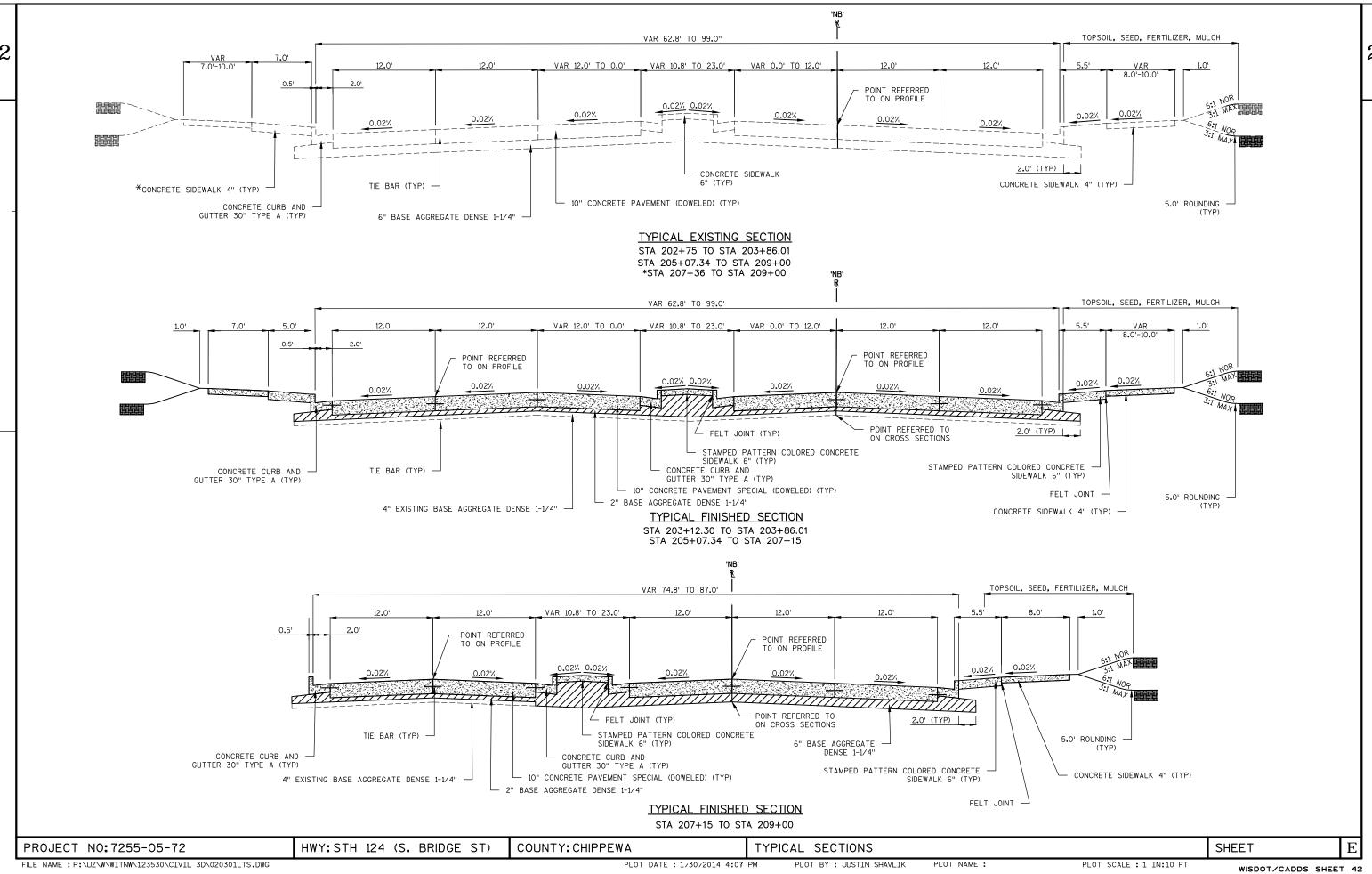
TYPICAL EXISTING SECTION STA 200+05.59 TO STA 202+75

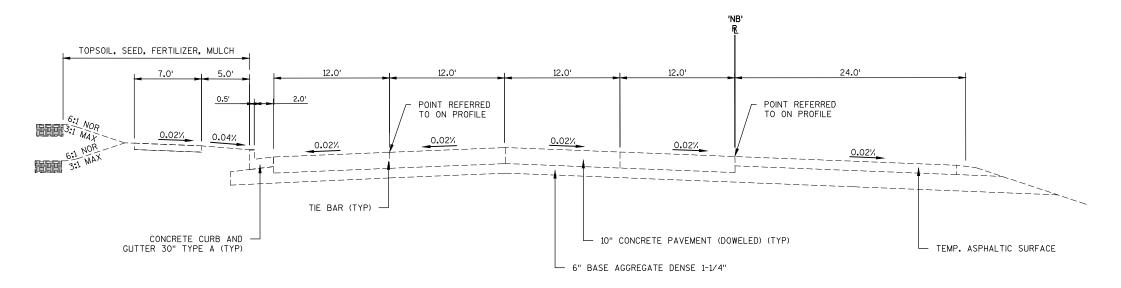
TOPSOIL, SEED, FERTILIZER, MULCH VAR 69.1' TO 94.1' 12.0' 12.0' VAR 29.1' TO 30.1' VAR 0.0' TO 12.0' 12.0' VAR 0.0' TO 12.0' 0.5' POINT REFERRED TO ON PROFILE 0.02% 0.04% 0.02% 3:1 MAX POINT REFERRED TO ON CROSS SECTIONS 2.0' (TYP) STAMPED PATTERN COLORED CONCRETE SIDEWALK 6" (TYP) ∠ FELT JOINT (TYP) TIE BAR (TYP) -STAMPED PATTERN COLORED CONCRETE SIDEWALK 6" (TYP) CONCRETE CURB AND — GUTTER 30" TYPE A (TYP) CONCRETE CURB AND GUTTER 30" TYPE A (TYP) FELT JOINT -5.0' ROUNDING -CONCRETE SIDEWALK 4" (TYP) L 10" CONCRETE PAVEMENT SPECIAL (DOWELED) (TYP) └ 2" BASE AGGREGATE DENSE 1-1/4" 2" BASE AGGREGATE DENSE 1-1/4" └ 4" EXISTING BASE AGGREGATE DENSE 1-1/4" 4" EXISTING BASE AGGREGATE DENSE 1-1/4"

TYPICAL FINISHED SECTION STA 200+05.59 TO STA 203+12.30

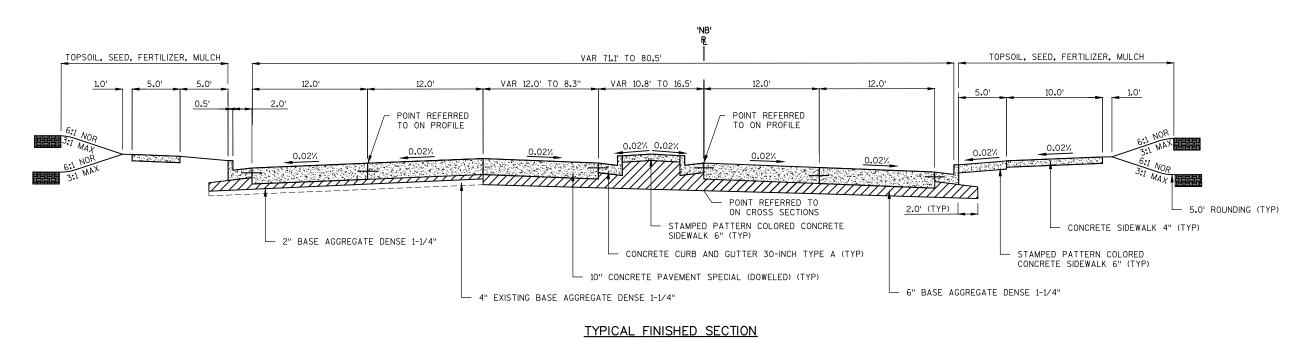
PROJECT NO: 7255-05-72	HWY: STH 124 (S. BRIDGE ST)	COUNTY: CHIPPEWA	TYPICAL SECTIONS	SHEET	Ε

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\020301_TS.DWG PLOT DATE : 1/30/2014 4:07 PM PLOT BY : JUSTIN SHAVLIK PLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42





TYPICAL EXISTING SECTION STA 209+00 TO STA 210+50.60

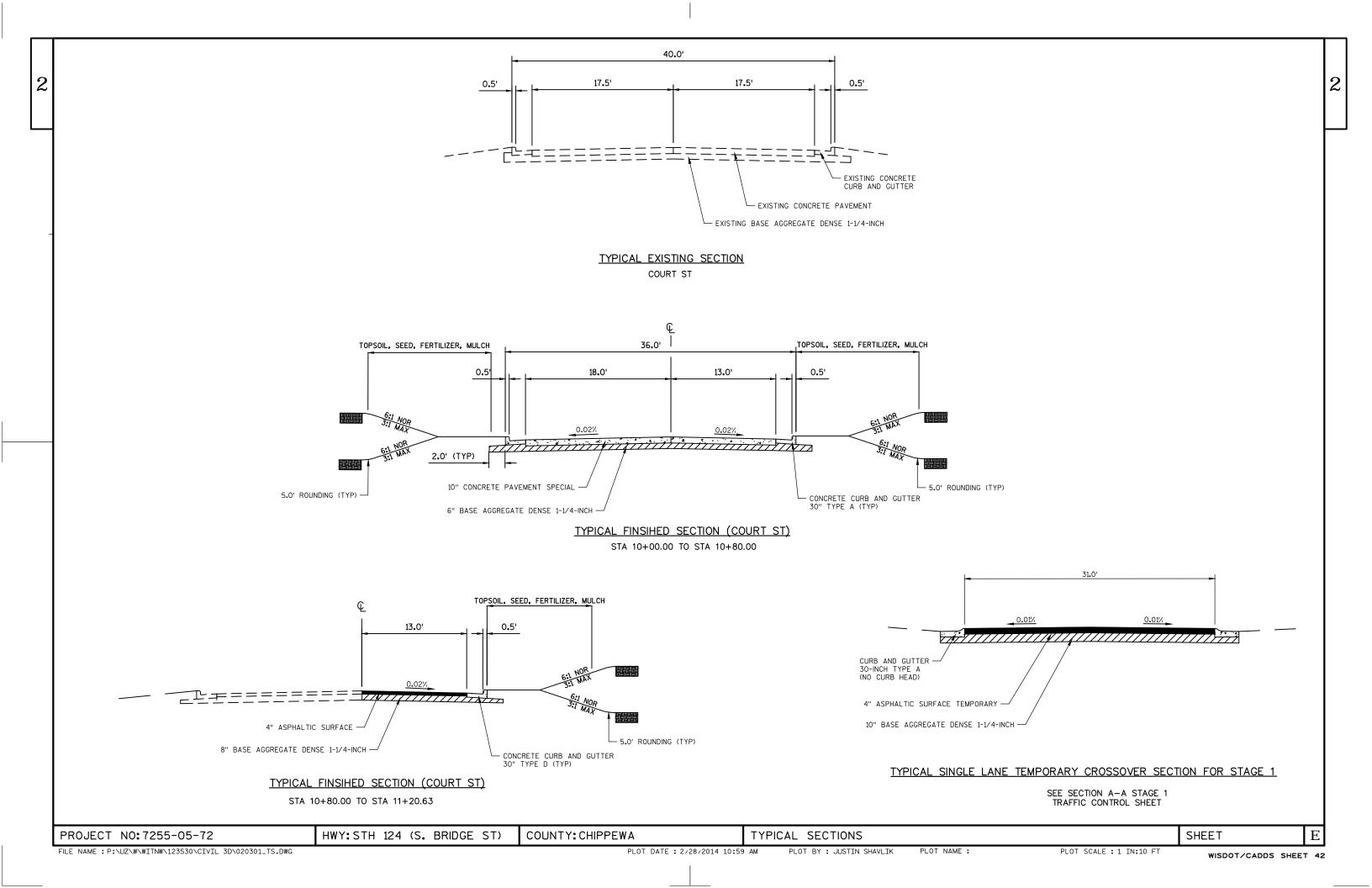


STA 209+00 TO STA 210+50.60

PROJECT NO: 7255-05-72 HWY: STH 124 (S. BRIDGE ST) COUNTY: CHIPPEWA TYPICAL SECTIONS SHEET FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\020301_TS.DWG PLOT NAME : PLOT BY : JUSTIN SHAVLIK

PLOT DATE: 1/30/2014 4:07 PM

PLOT SCALE : 1 IN:10 FT



GENERAL NOTES

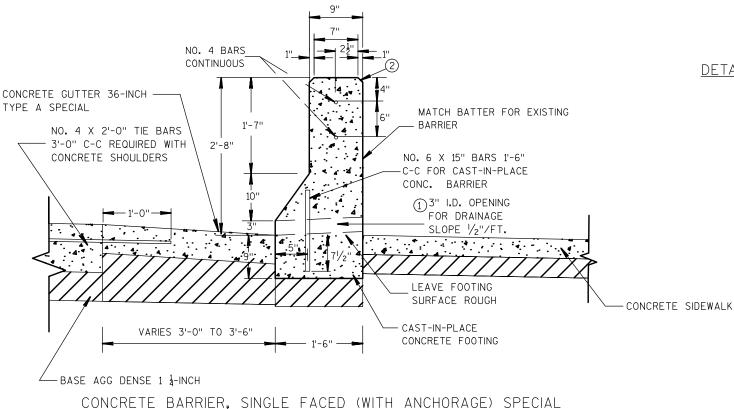
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

PRECAST UNITS SHALL BE FIRMLY BUTTED TOGETHER IN A CONTINUOUS LINE AND BE INTERCONNECTED BY VERTICAL MALE-FEMALE SHEAR CONNECTORS FORMED IN THE BARRIER FNDS.

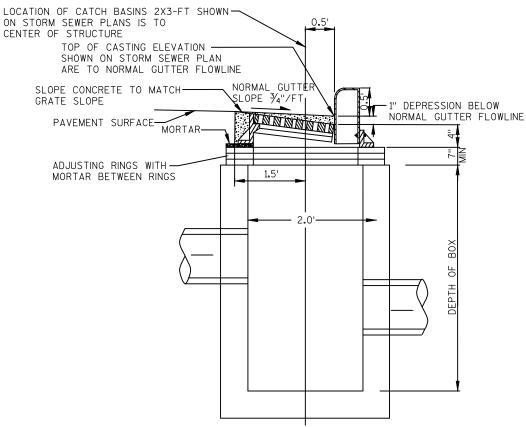
SPLICES OF LONGITUDINAL BARS SHALL BE MADE WITH BARS LAPPED AT LEAST 18-INCHES AND FIRMLY TIED OR FASTENED TOGETHER.

ALL BAR STEEL REINFORCEMENT SHALL CONFORM TO REQUIREMENTS OF AASHTO M31, GRADE 60.

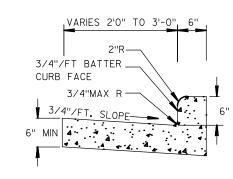
- ① OPENINGS FOR DRAINAGE SHALL BE PLACED AT LOW POINTS OF VERTICAL CURVES OR WHERE DIRECTED BY THE ENGINEER.
- (2) 3/4-INCH BEVEL OR 1-INCH RADIUS (TYPICAL).



STA 203+38 TO STA 203+97 RT



DETAIL OF CURB AND GUTTER AT CATCH BASINS



CONCRETE CURB & GUTTER 30-INCH TYPE A SPECIAL

3/4"/FT. SLOPE 6"

VARIES 3'-0" TO 3'-6"

STA 203+35 TO STA 203+64 RT STA 203+38 TO STA 203+47 LT

CONCRETE GUTTER 36-INCH TYPE A SPECIAL

STA 203+47 TO STA 203+63 LT STA 203+64 TO STA 203+96 RT

PLOT NAME :

PROJECT NO: 7255-05-72

HWY: STH 124 (S. BRIDGE ST)

COUNTY: CHIPPEWA

CONSTRUCTION DETAILS

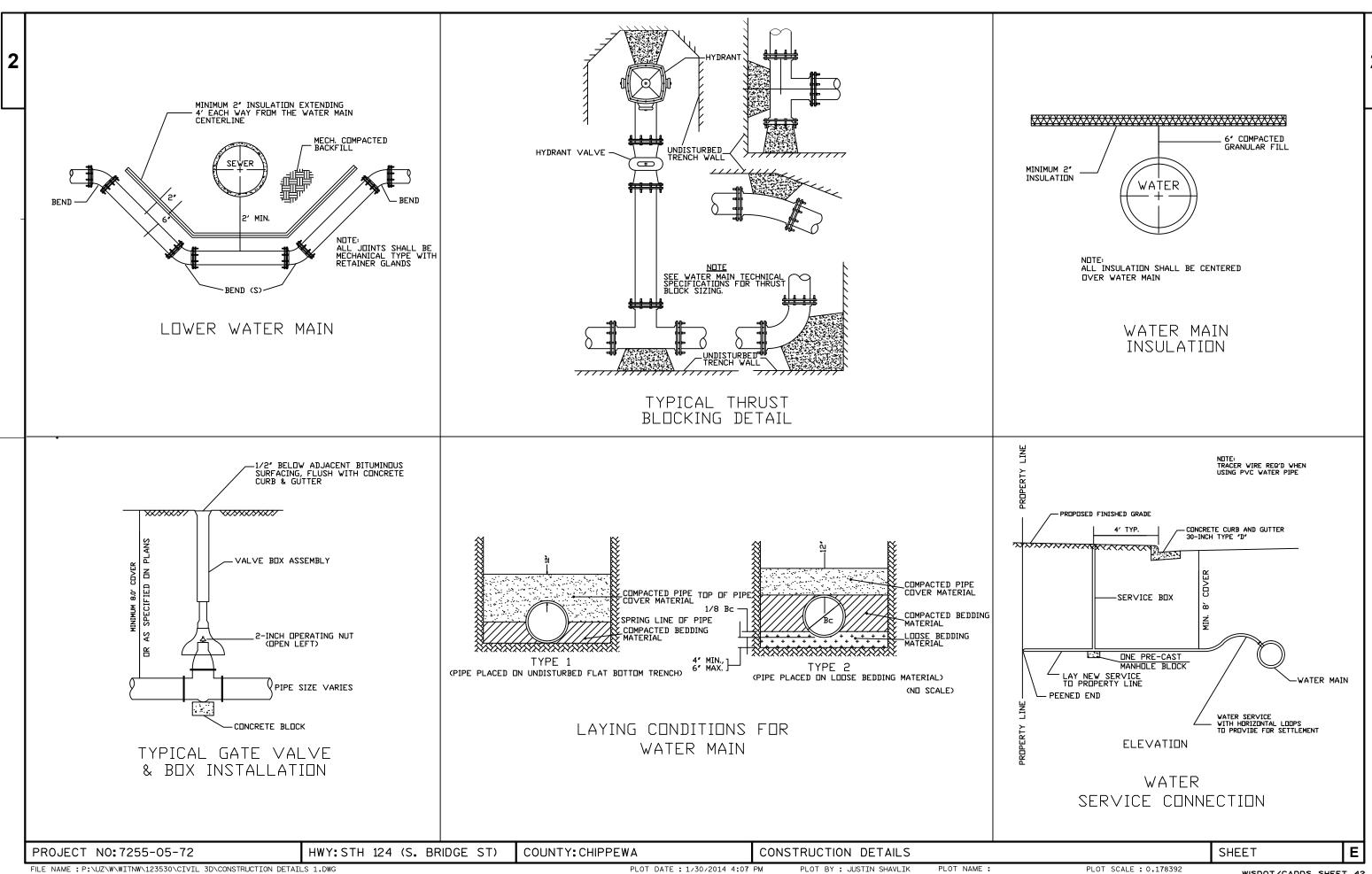
SHEET

E

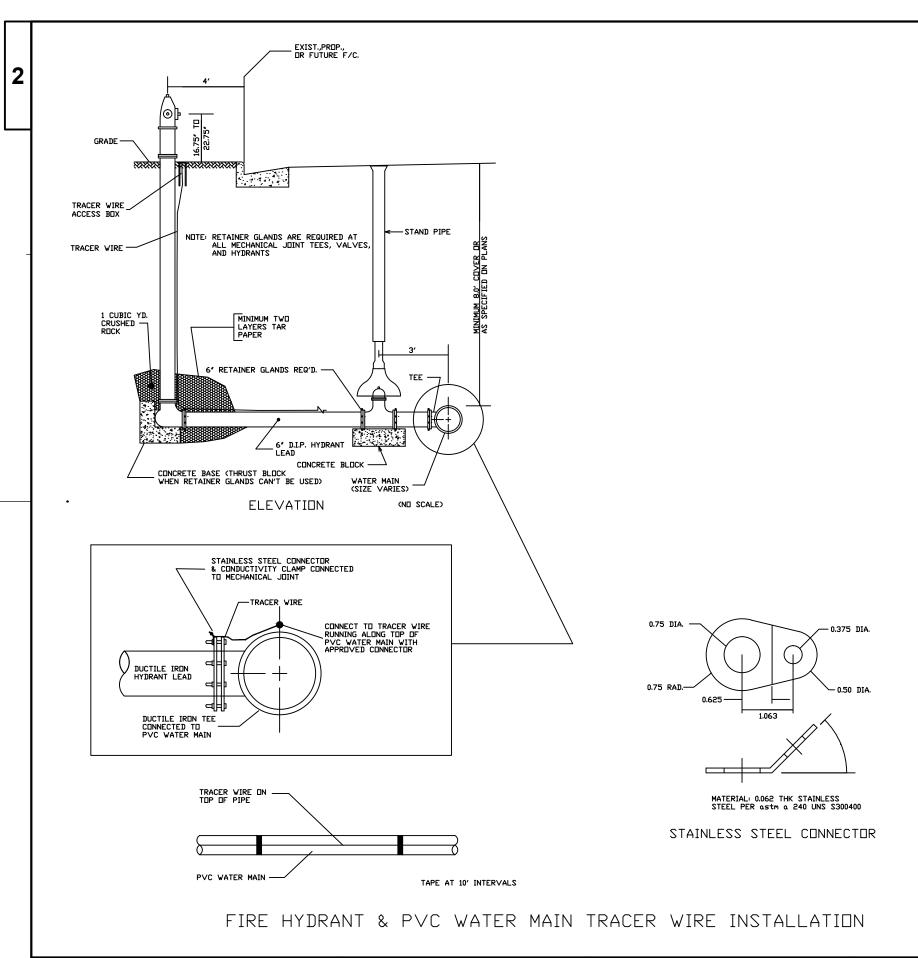
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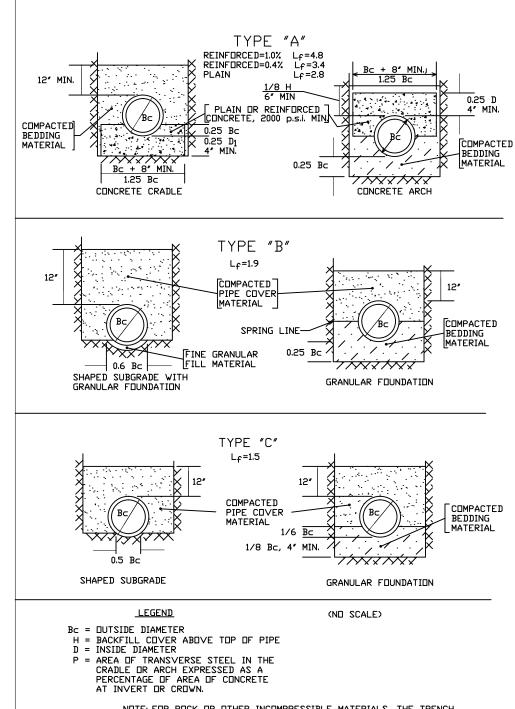
PLOT BY : JUSTIN SHAVLIK







HWY: STH 124 (S. BRIDGE ST)



NOTE: FOR ROCK OR OTHER INCOMPRESSIBLE MATERIALS, THE TRENCH SHOULD BE OVER EXCAVATED A MINIMUM OF 6 INCHES AND REFILLED WITH GRANULAR MATERIAL.

LAYING CONDITIONS FOR SEWER PIPE

CONSTRUCTION DETAILS SHEET

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\CONSTRUCTION DETAILS 1.DWG

PROJECT NO: 7255-05-72

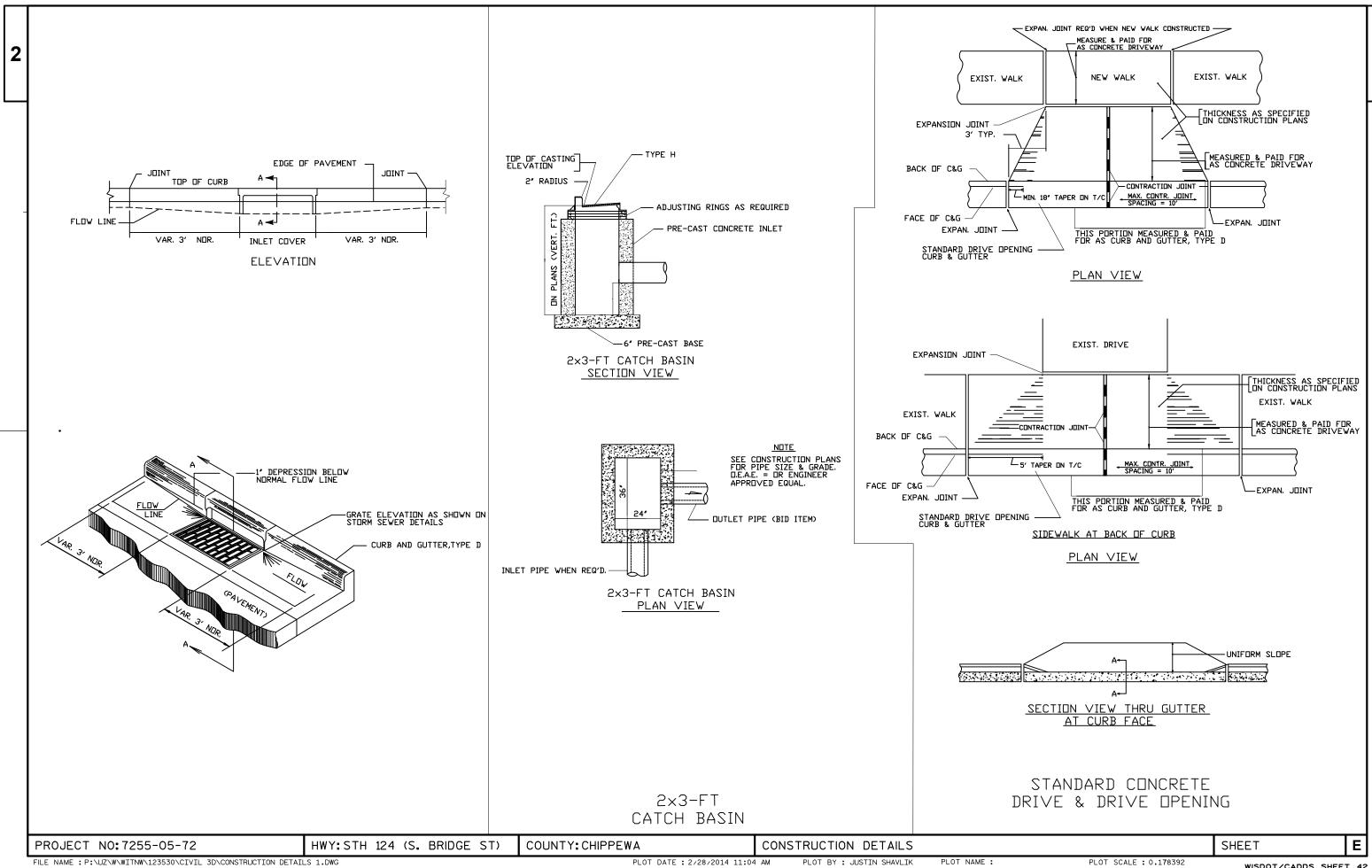
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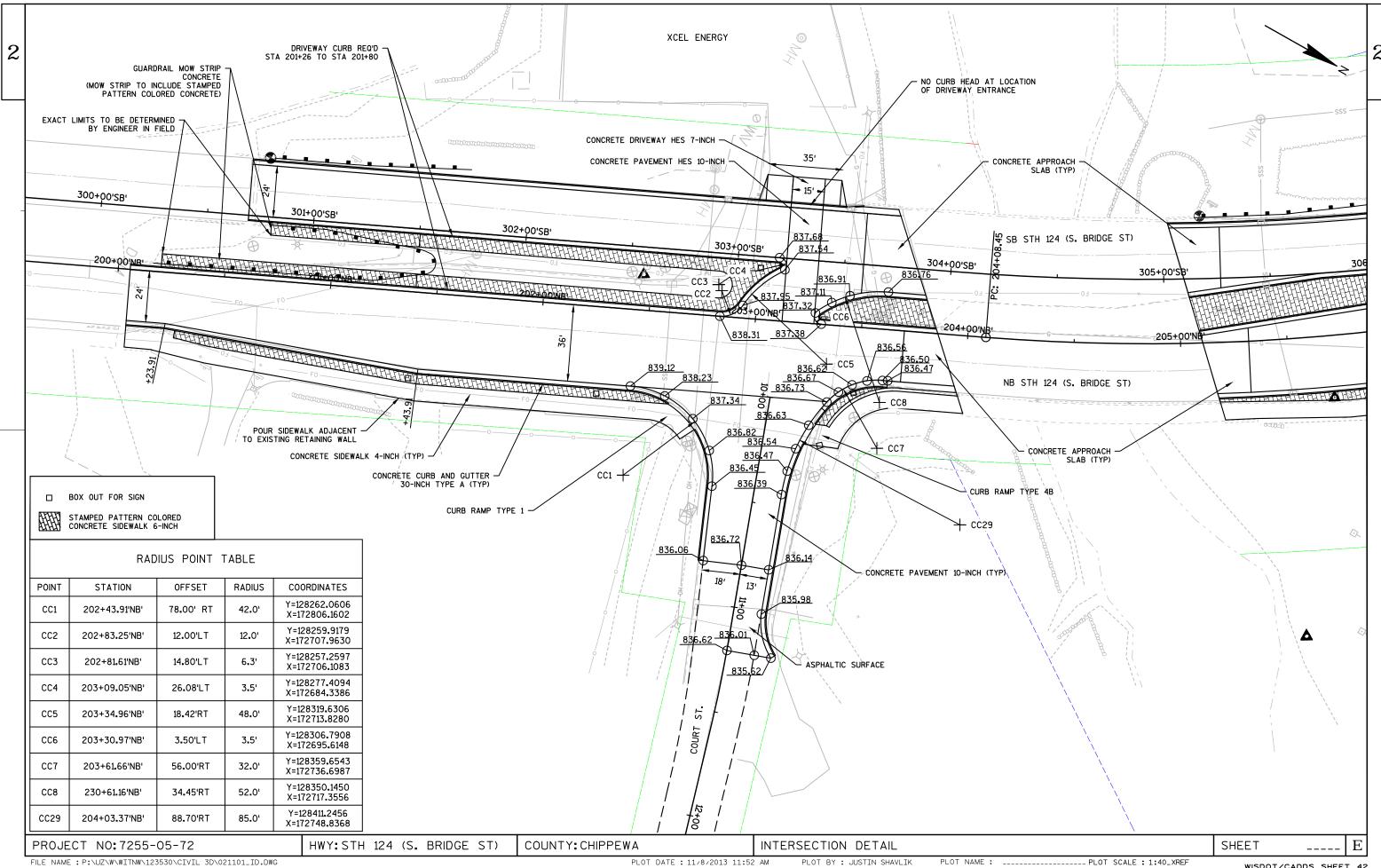
COUNTY: CHIPPEWA

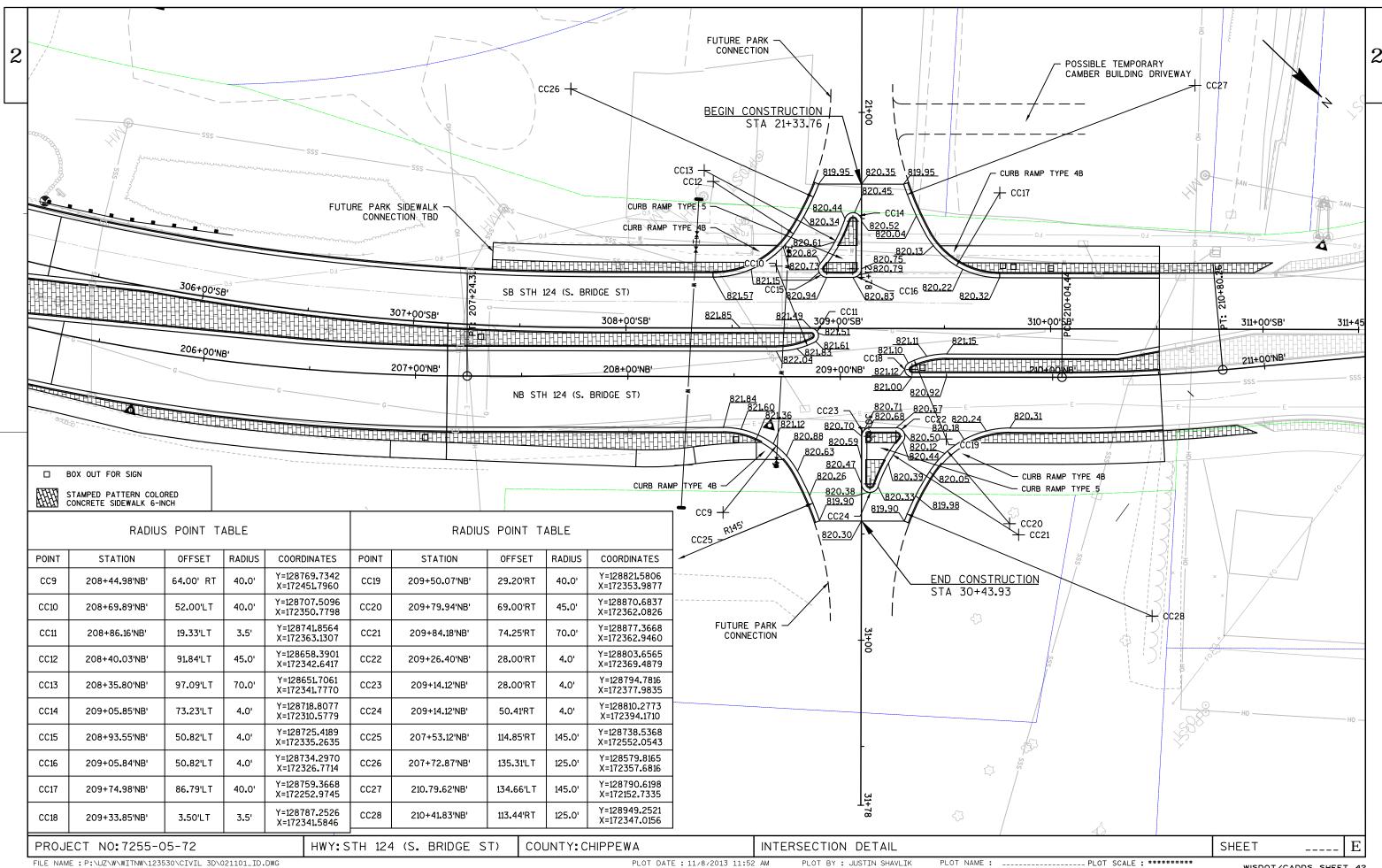
PLOT NAME : PLOT SCALE : 0.178392

WISDOT/CADDS SHEET 42

E

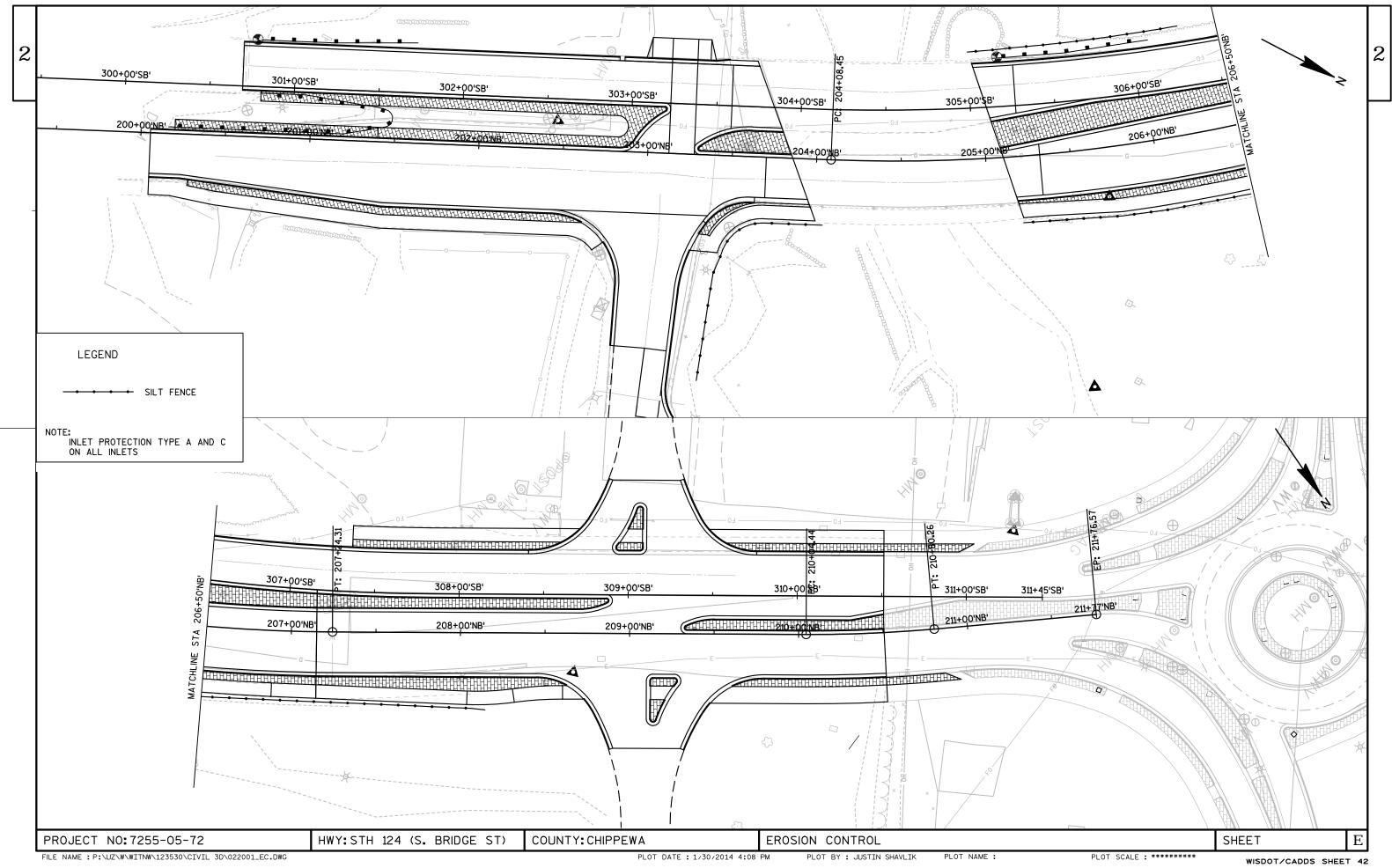


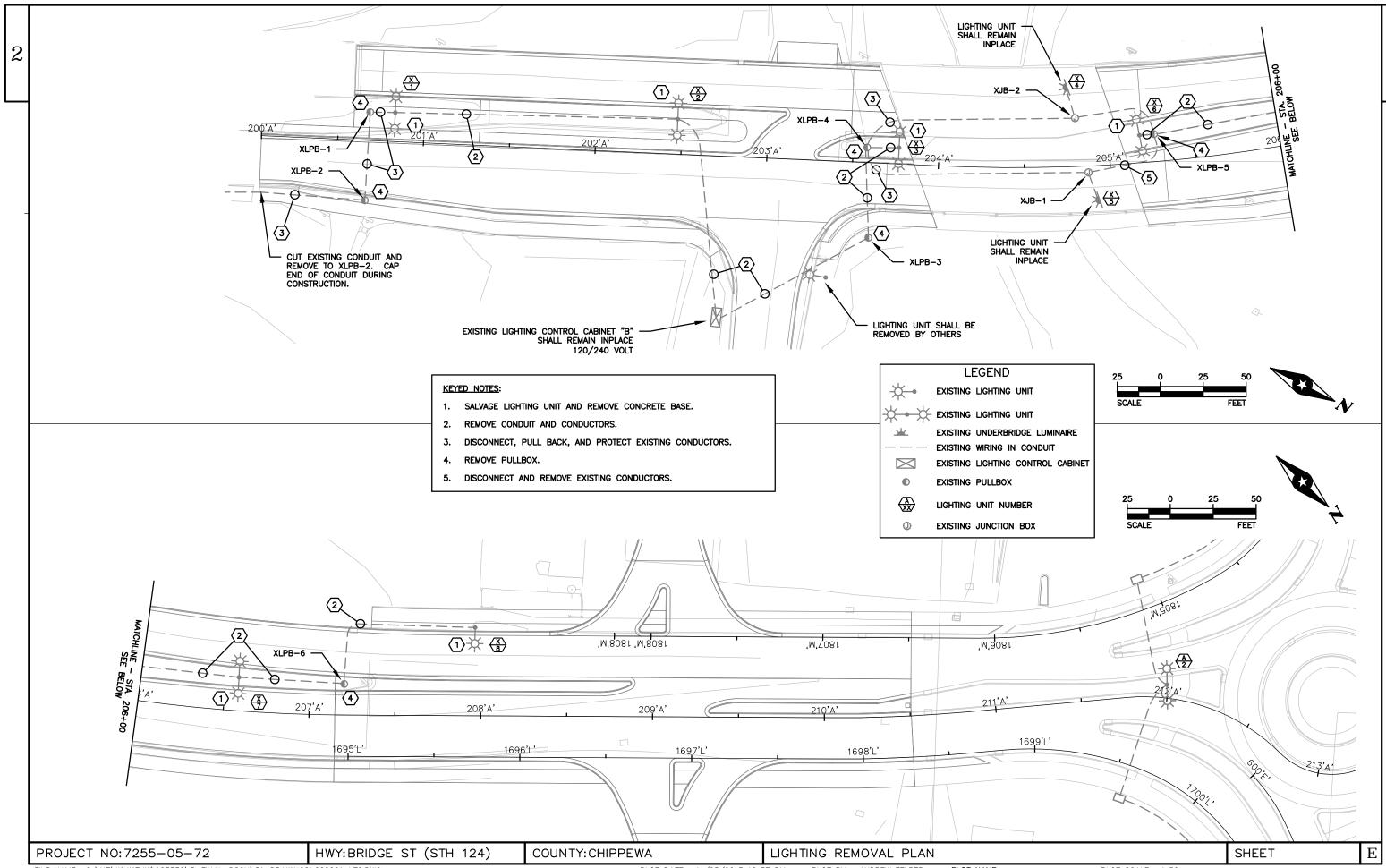


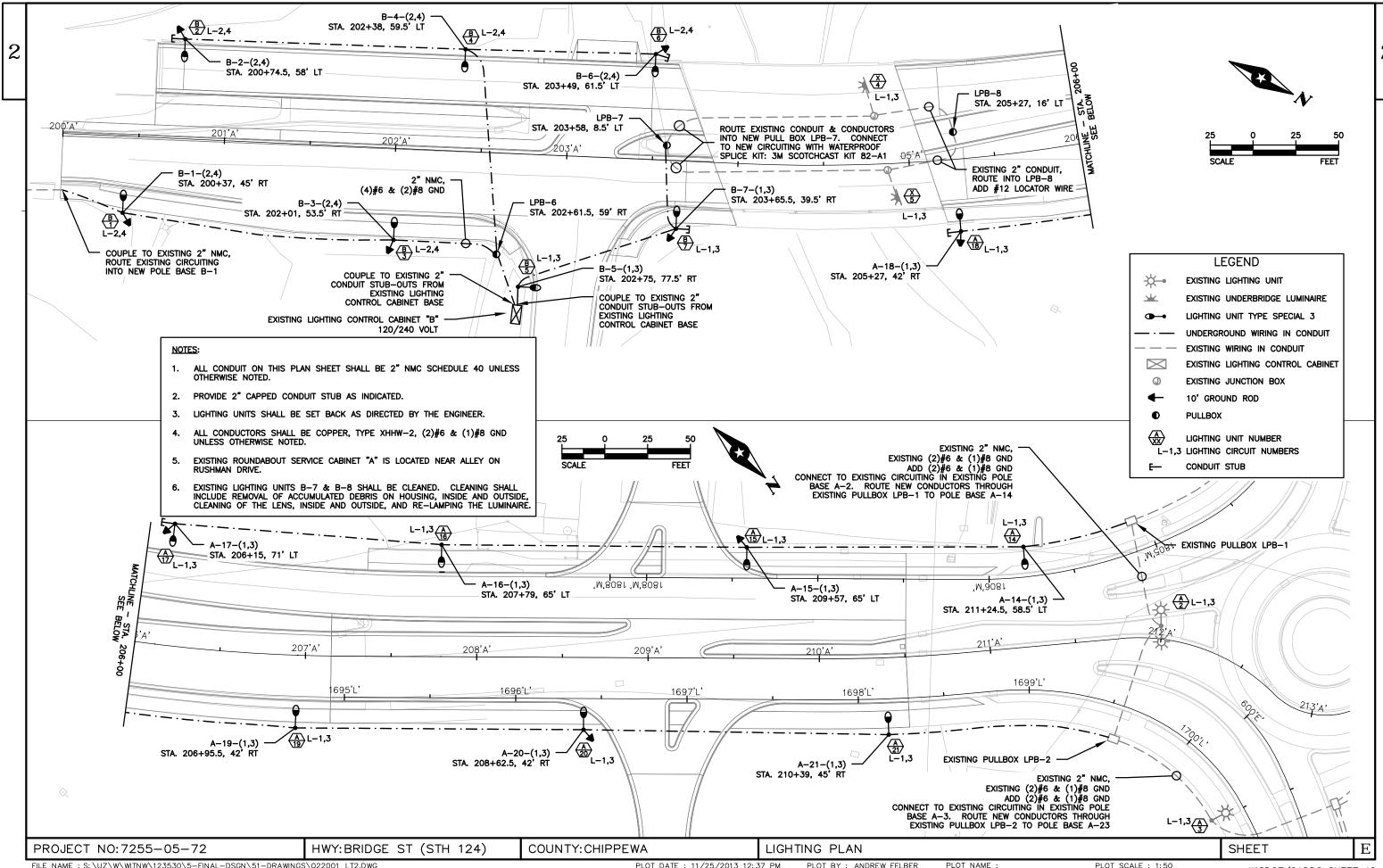


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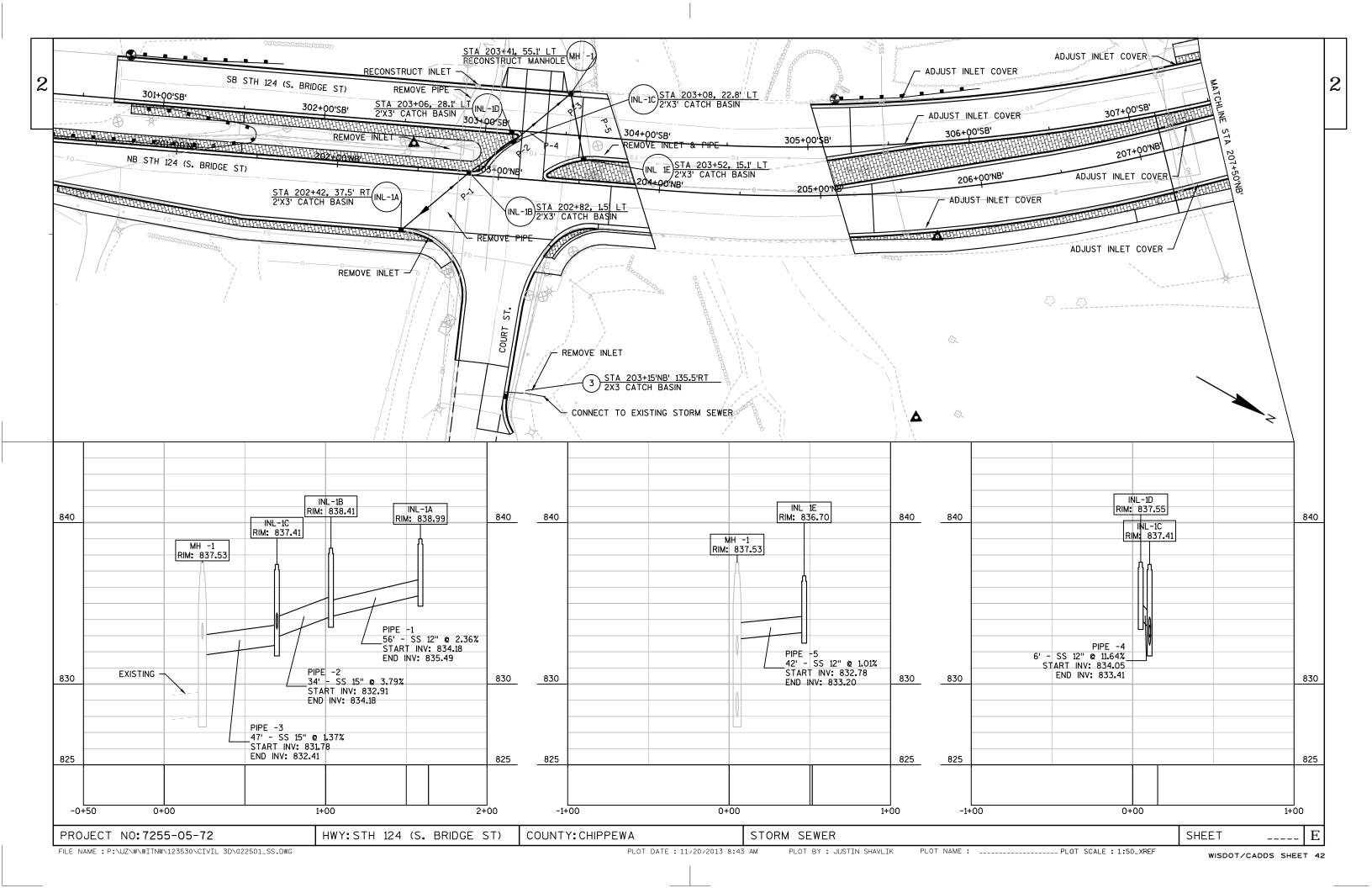
PLOT DATE: 11/8/2013 11:52 AM

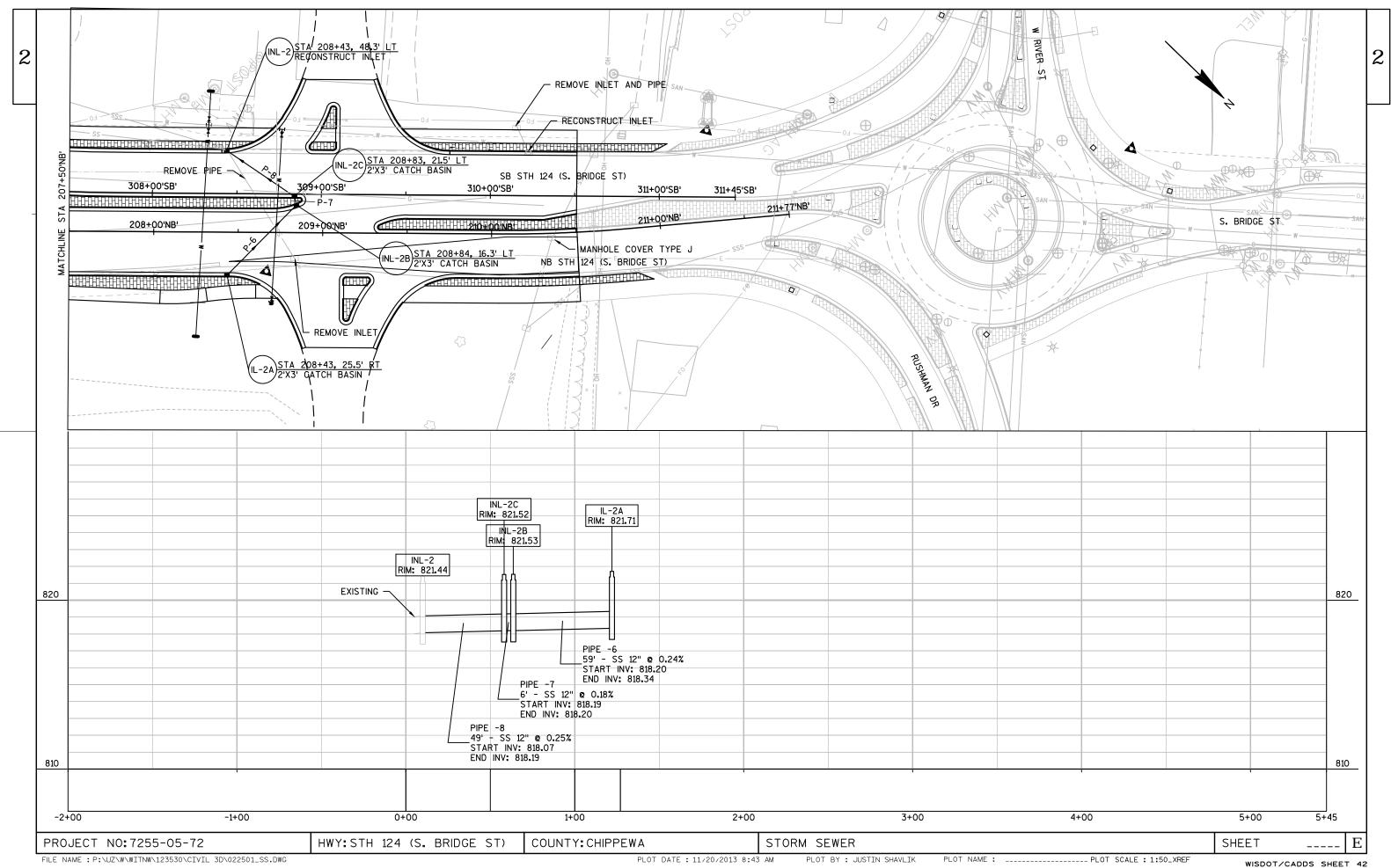


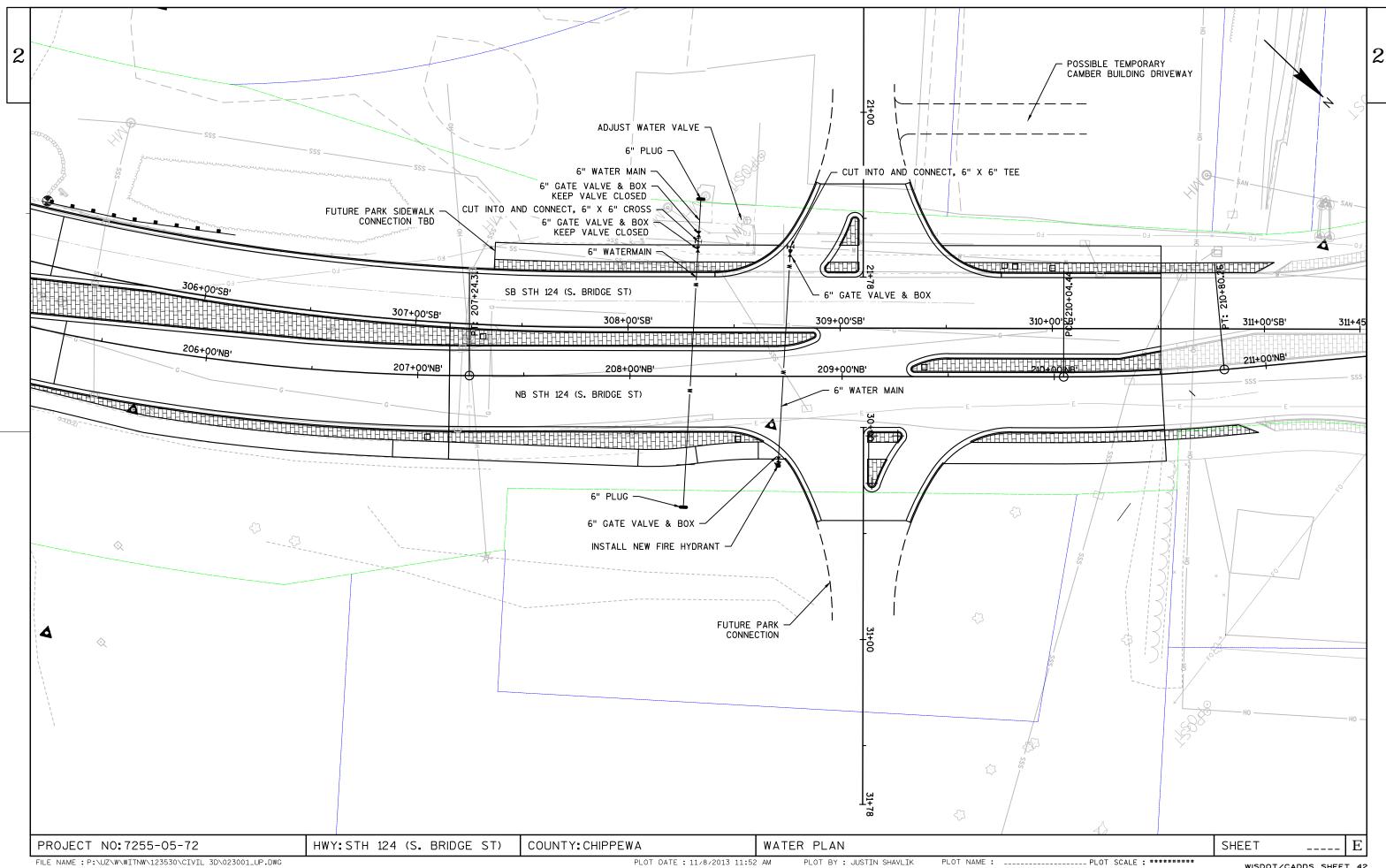


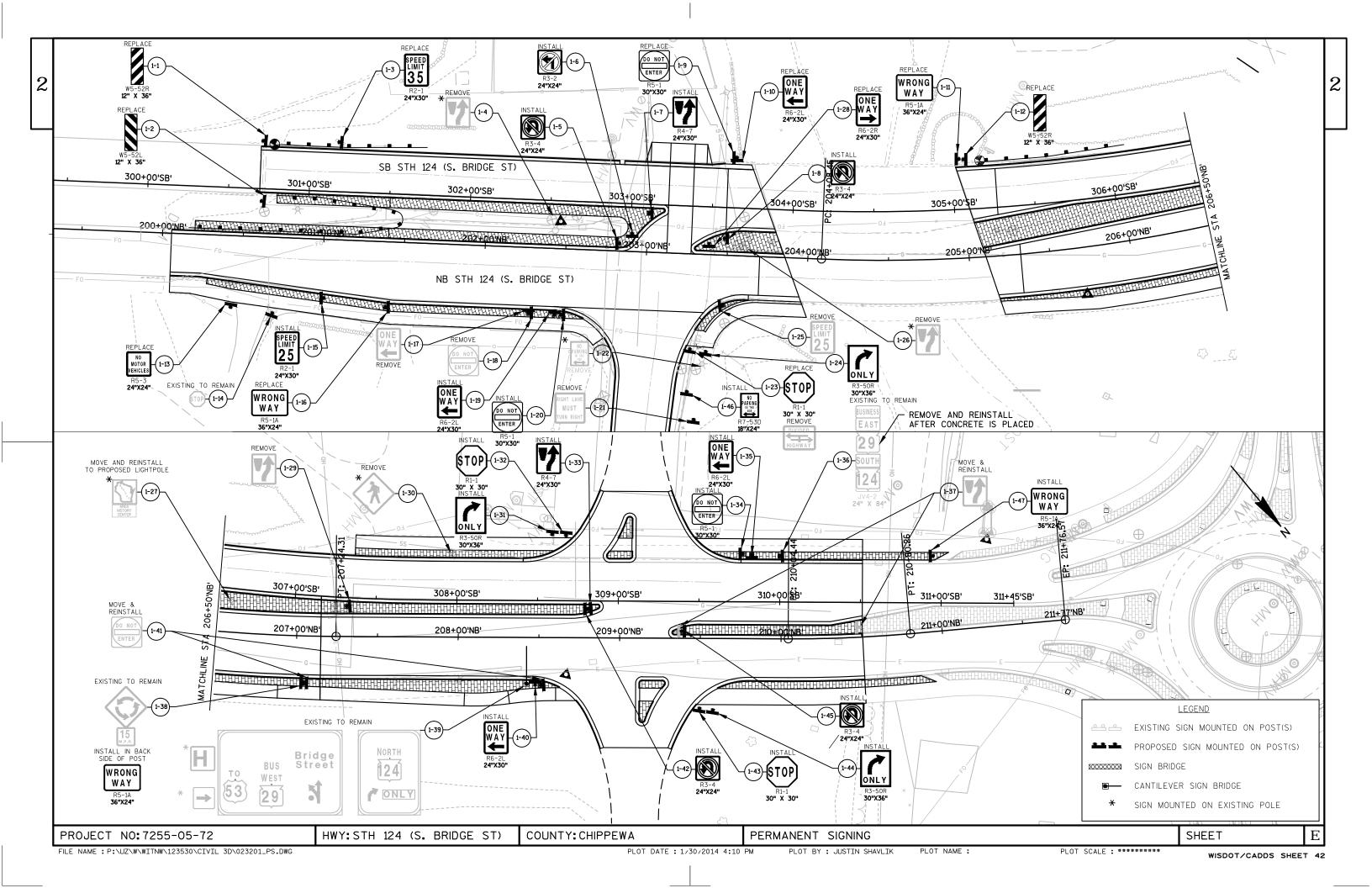


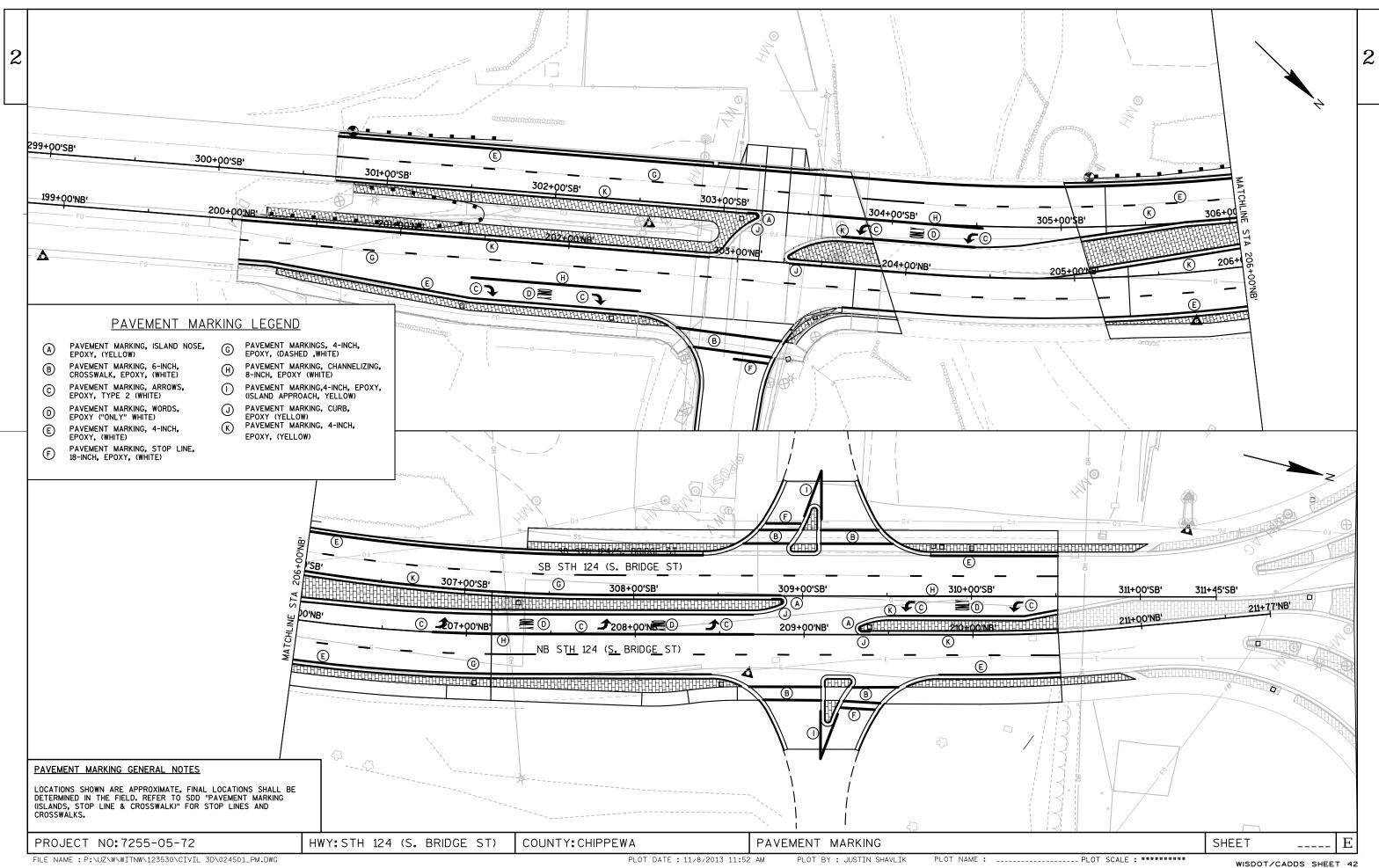
EQUIPMENT SCHEDULE GARDCO PUREFORM P32 LAMP SOURCE MOUNTING SYMBOL DESCRIPTION OPTICS | MANUFACTURER & SERIES # GARDCO – LUMINAIRE: P32-A3-1-160LA-3-NW-UNIV-BRP-CDMGP LIGHTING UNIT TYPE SPECIAL 3 LED LUMINAIRE ON ROUND BOTTLENECK ALUMINUM POLE 160 WATT 96 LED 4000K 30' POLE ON CONCRETE BASE TYPE SPECIAL W/ DECORATIVE ARM AND BLANK COVER PLATE POLE: RTA-30-SKTB052013B BLANK COVER PLATE BOLT CIRCLE PER POLE MANUFACTURER 24" DIA. CONCRETE BASE W/ ANCHOR BOLT BY POLE SUPPLIER TWO GALVANIZED HEX NUTS AND WASHERS PER ANCHOR BOLT. 2" FOUNDATION EXPOSURE AND 3/4" CHAMFERED EDGE. BRUSH FINISH ALL EXPOSED SURFACES.
WISDOT GRADE C CONCRETE. 5/8" Ø COPPER COATED
GROUND ROD WITH CLAMP & #6
BARE COPPER WIRE, SEE PLAN
FOR GROUND ROD LOCATIONS ,0 6,-0, #4 BARS, 6'-0" LONG TOTAL = 4 BARS 6" _| 2'-0" ø CONCRETE BASE TYPE SPECIAL DETAIL LIGHTING UNIT TYPE SPECIAL DETAIL COUNTY: CHIPPEWA SHEET E PROJECT NO:7255-05-72 HWY:BRIDGE ST (STH 124) LIGHTING DETAILS

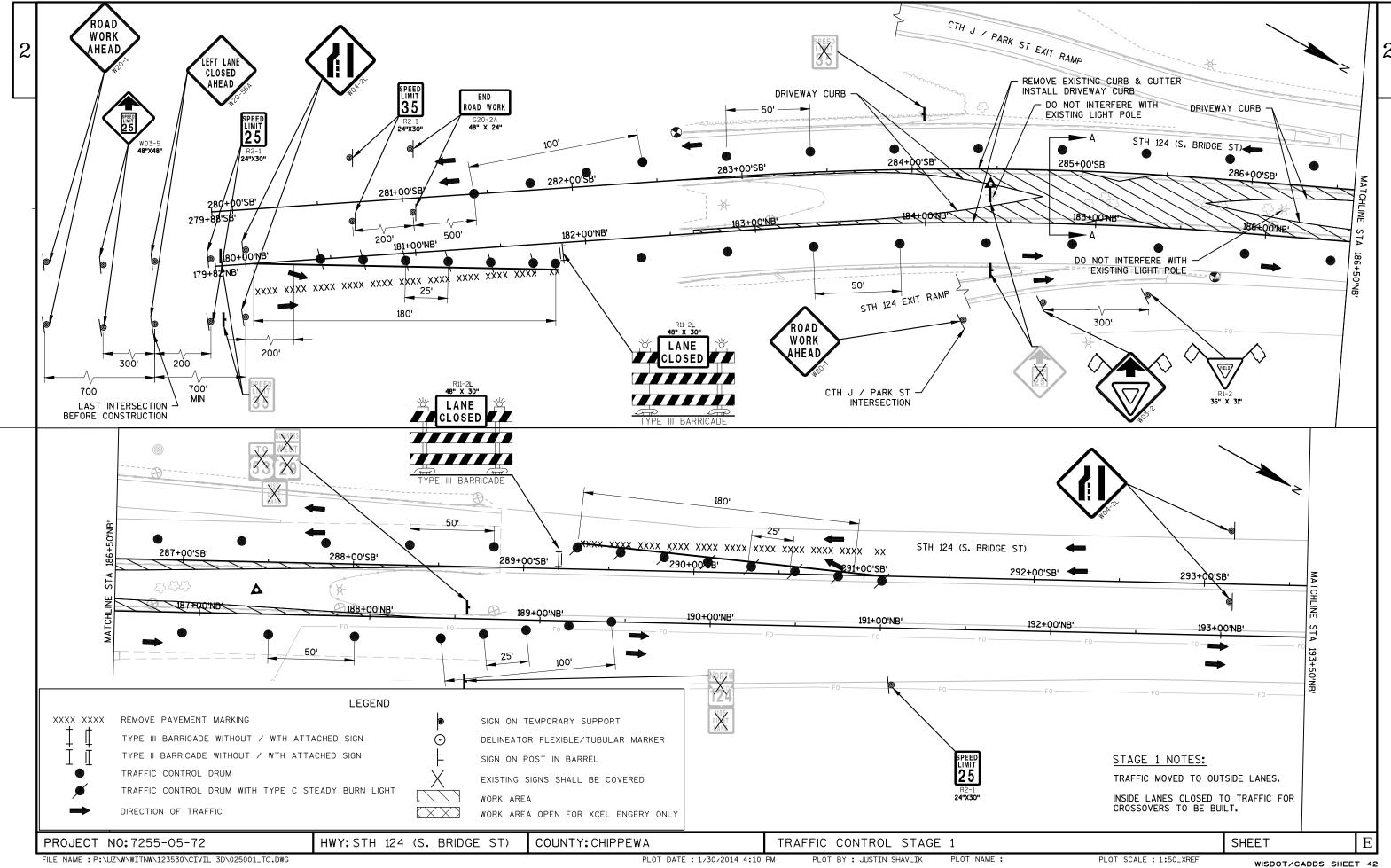


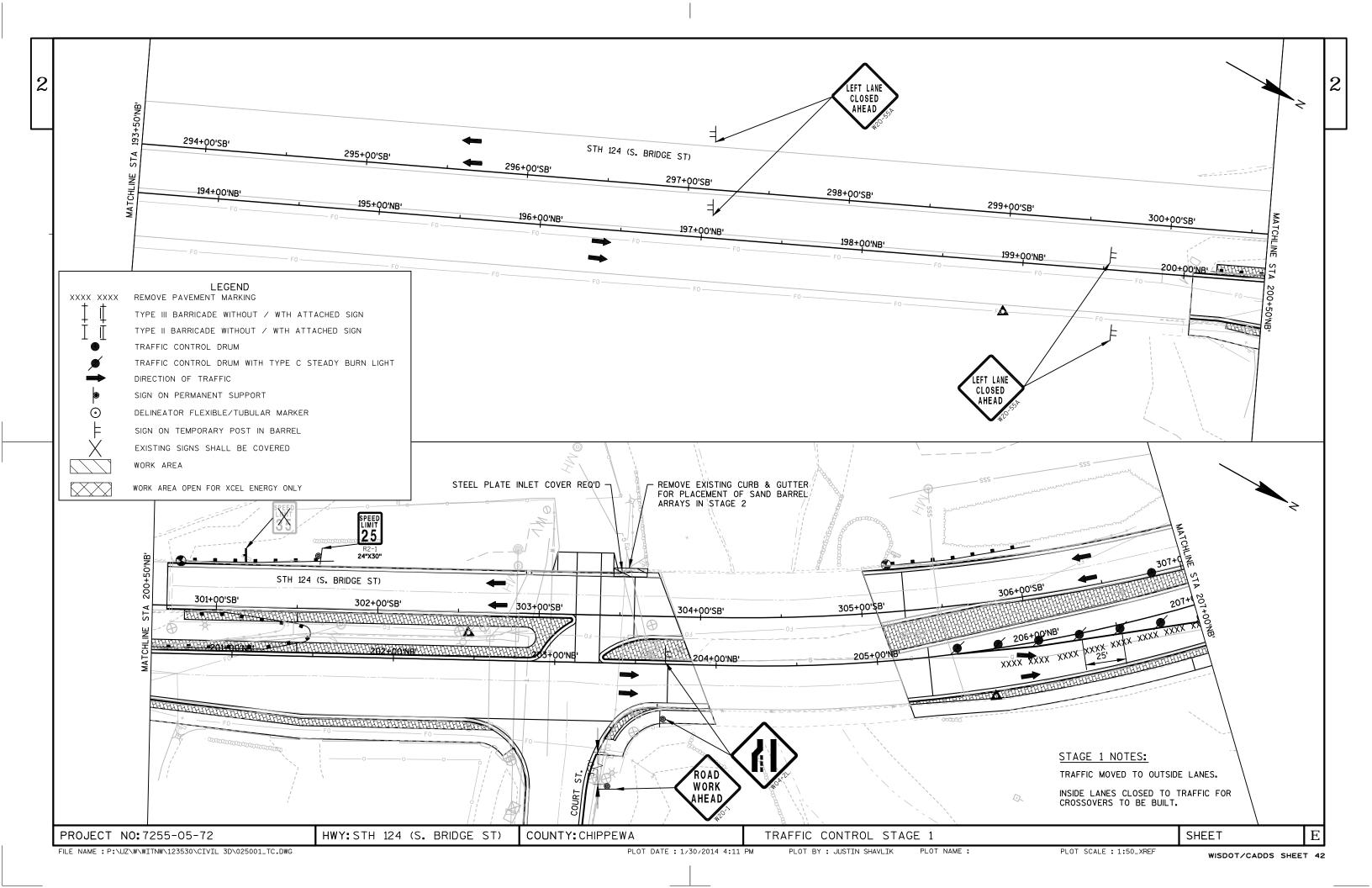


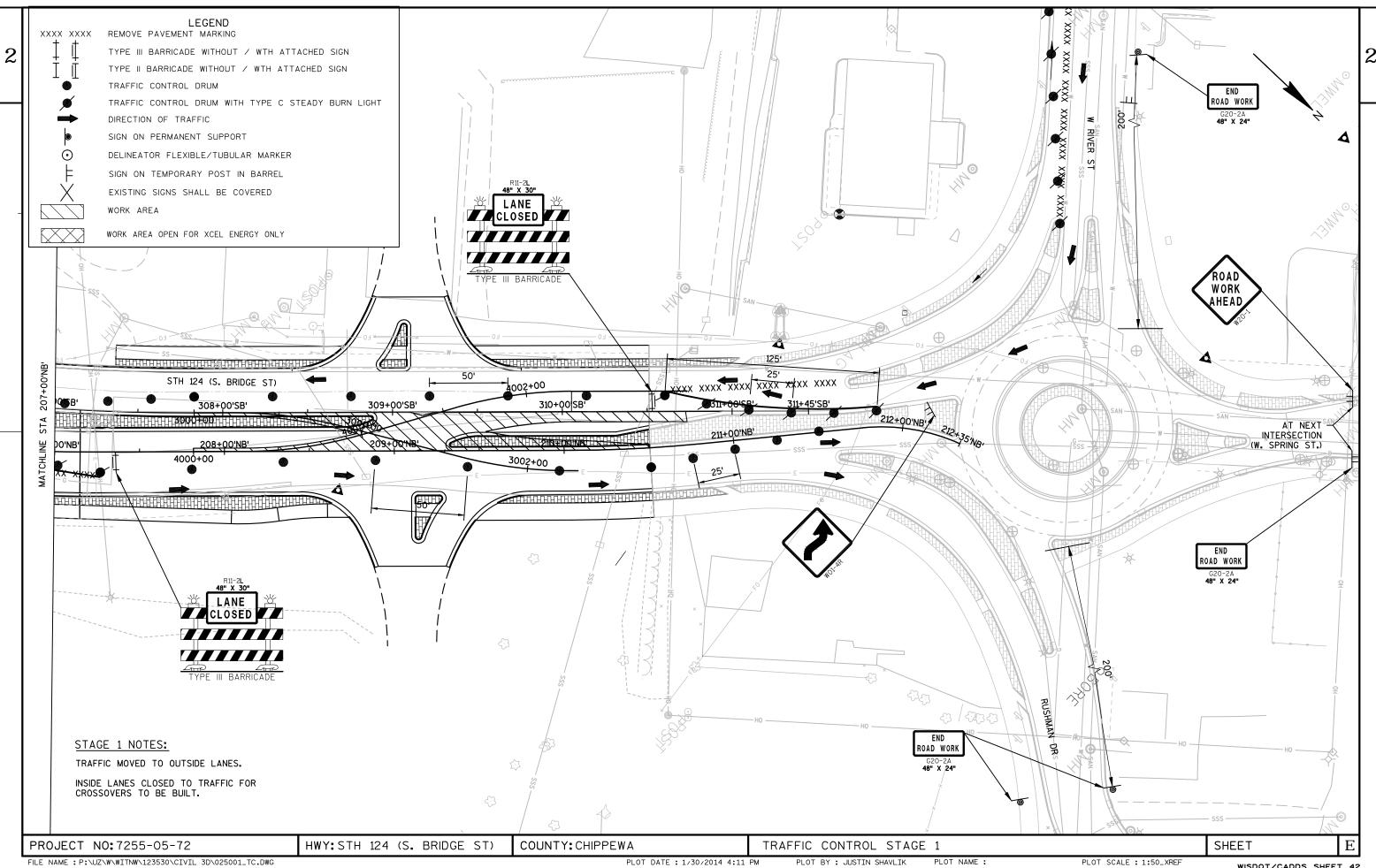


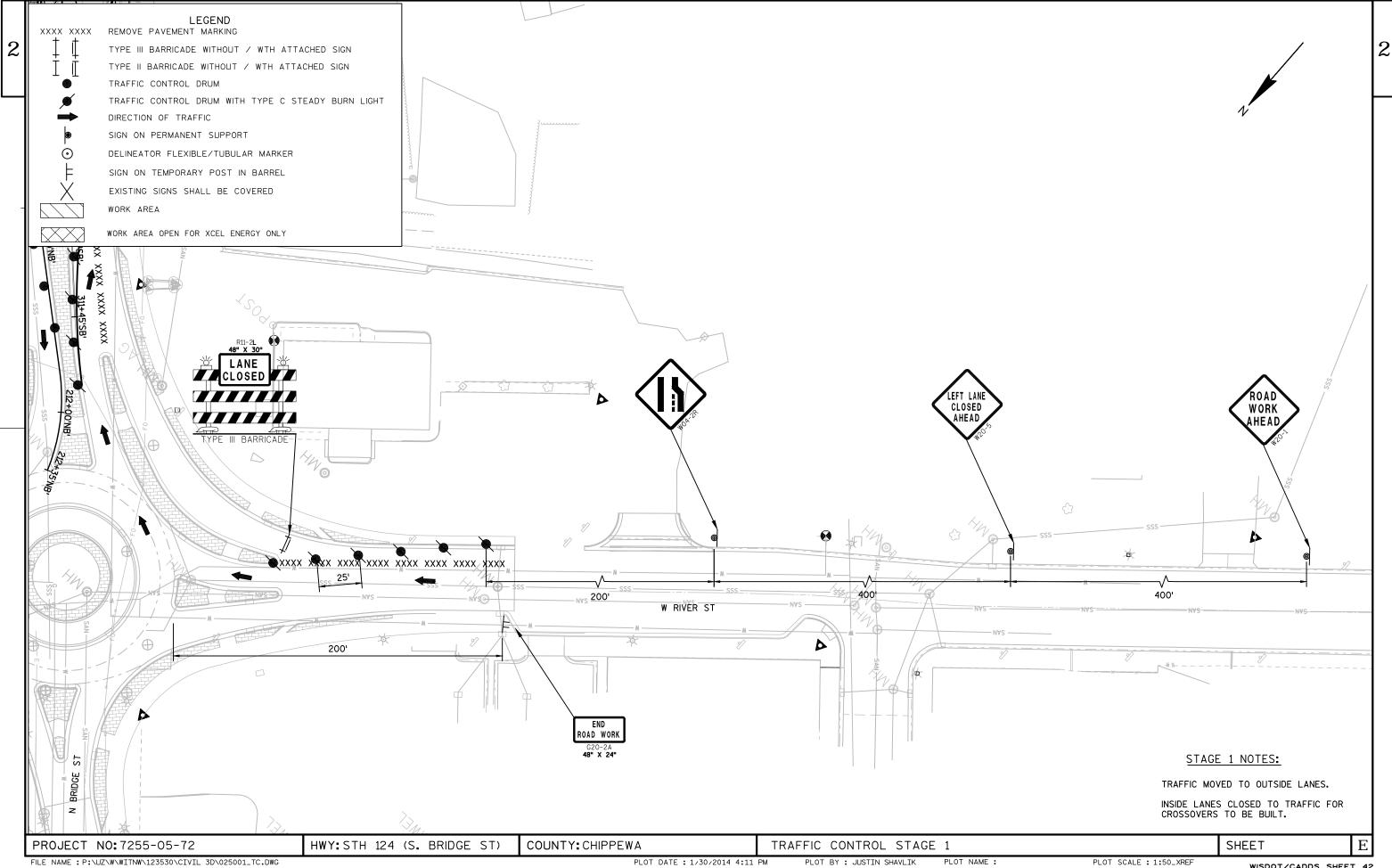


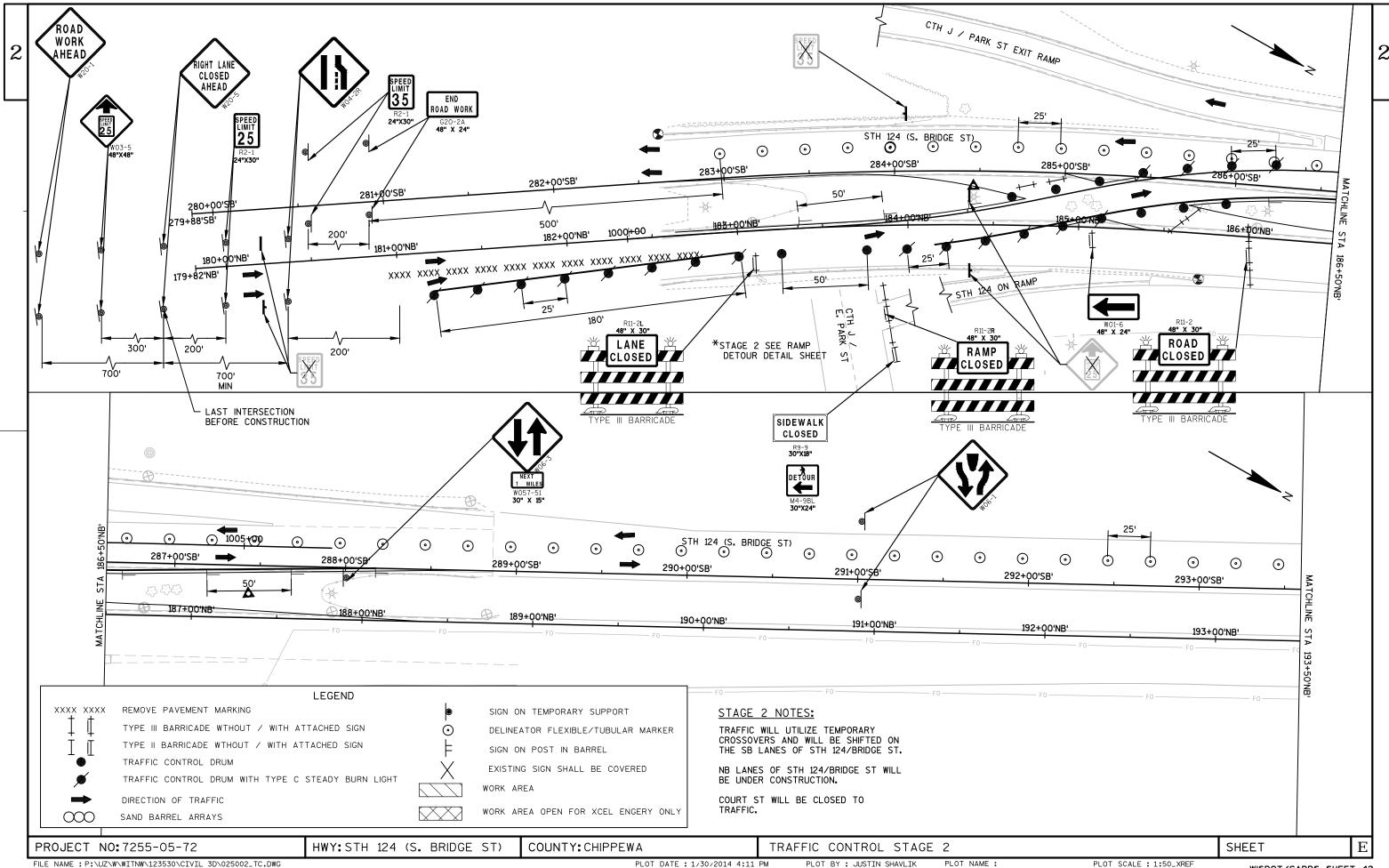










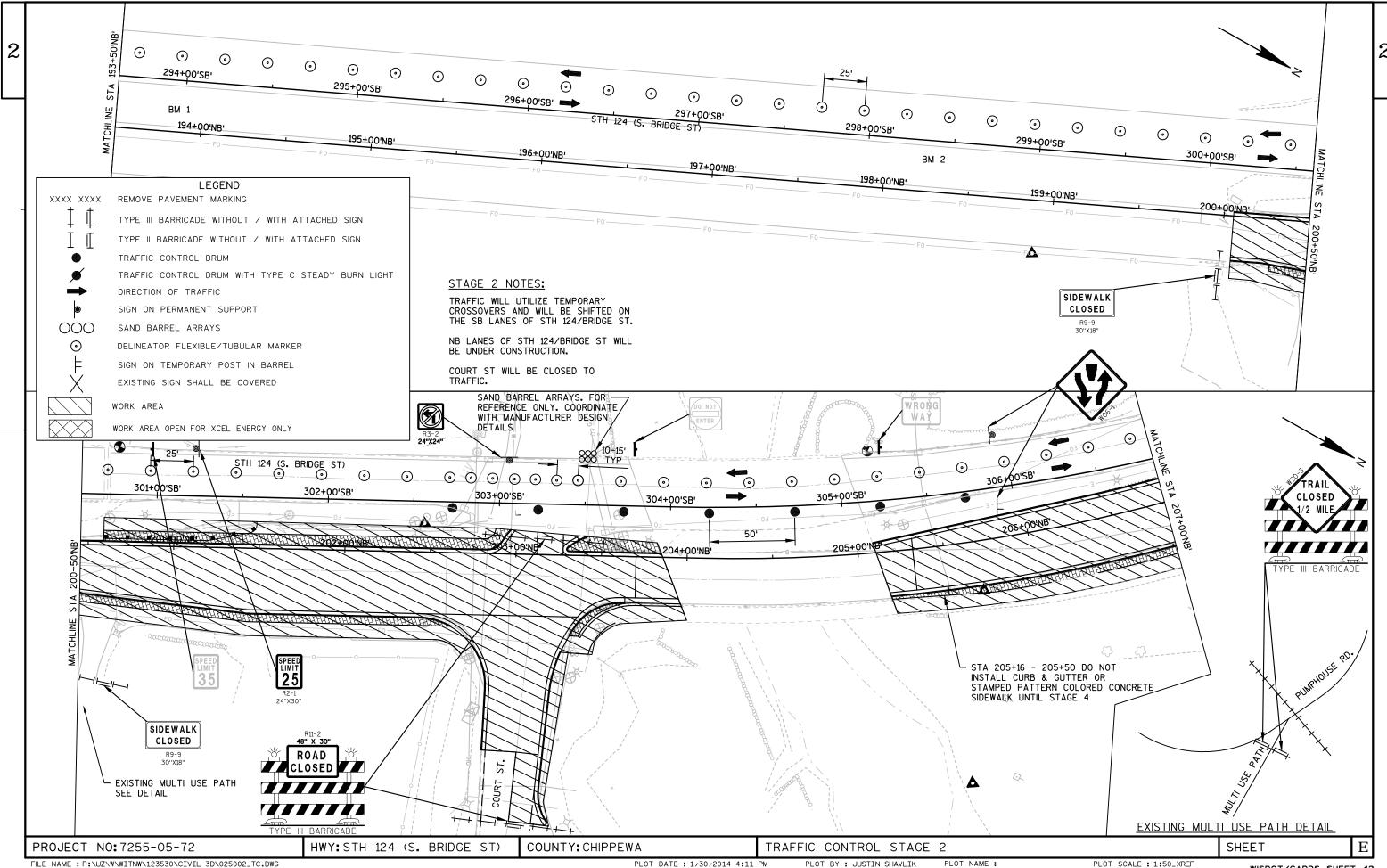


FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\025002_TC.DWG

PLOT DATE: 1/30/2014 4:11 PM

PLOT BY : JUSTIN SHAVLIK

PLOT SCALE : 1:50_XREF

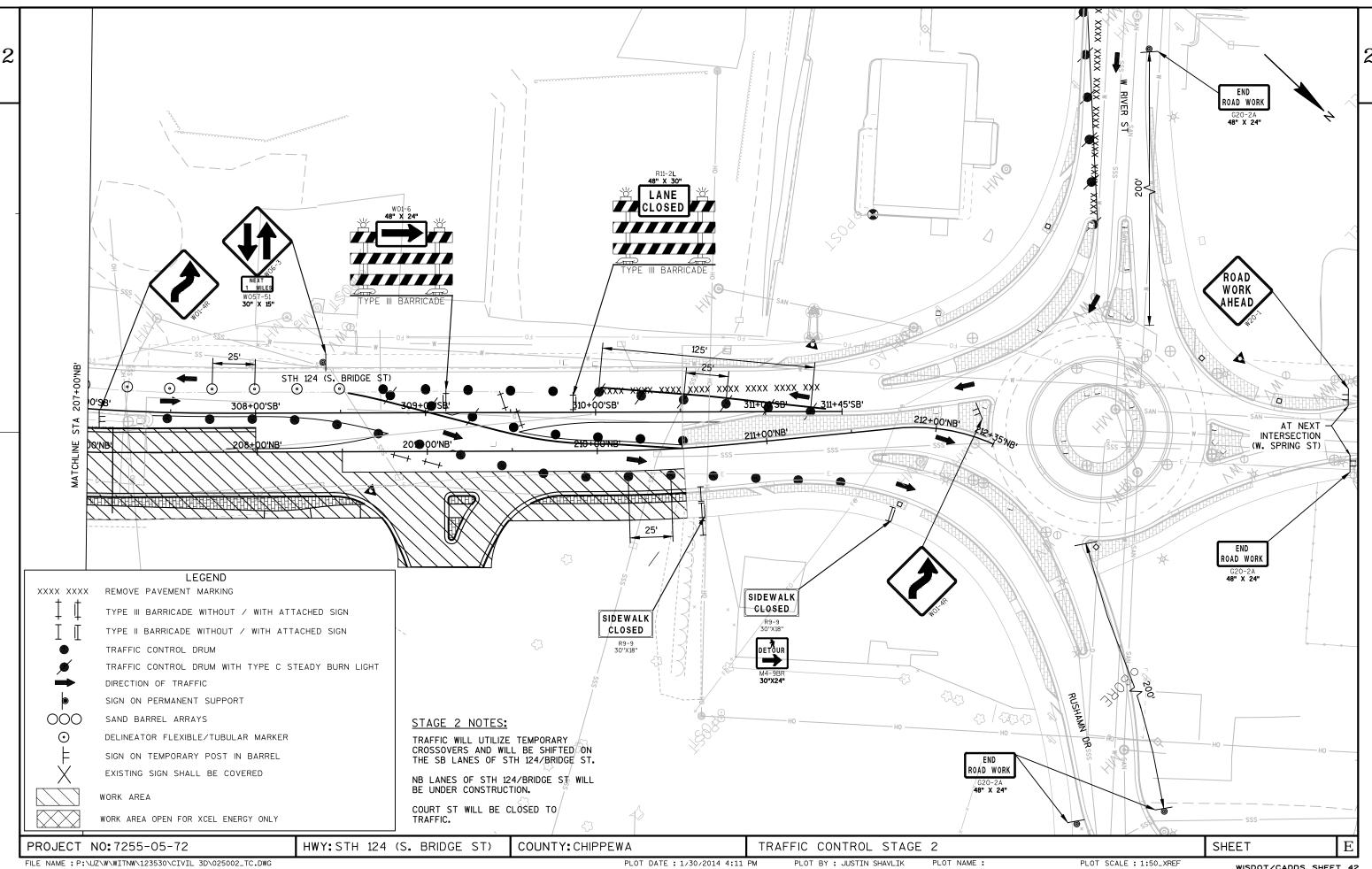


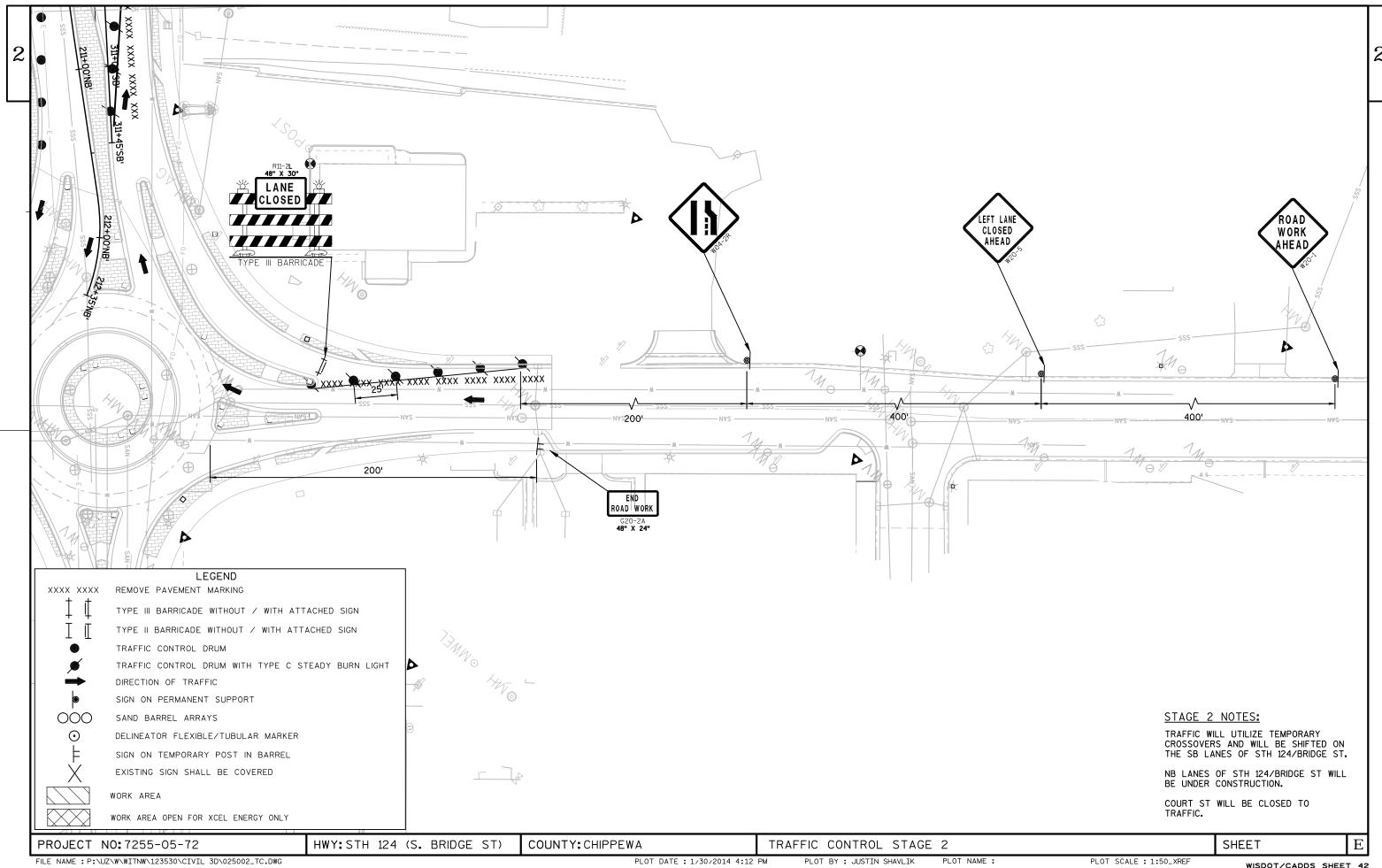
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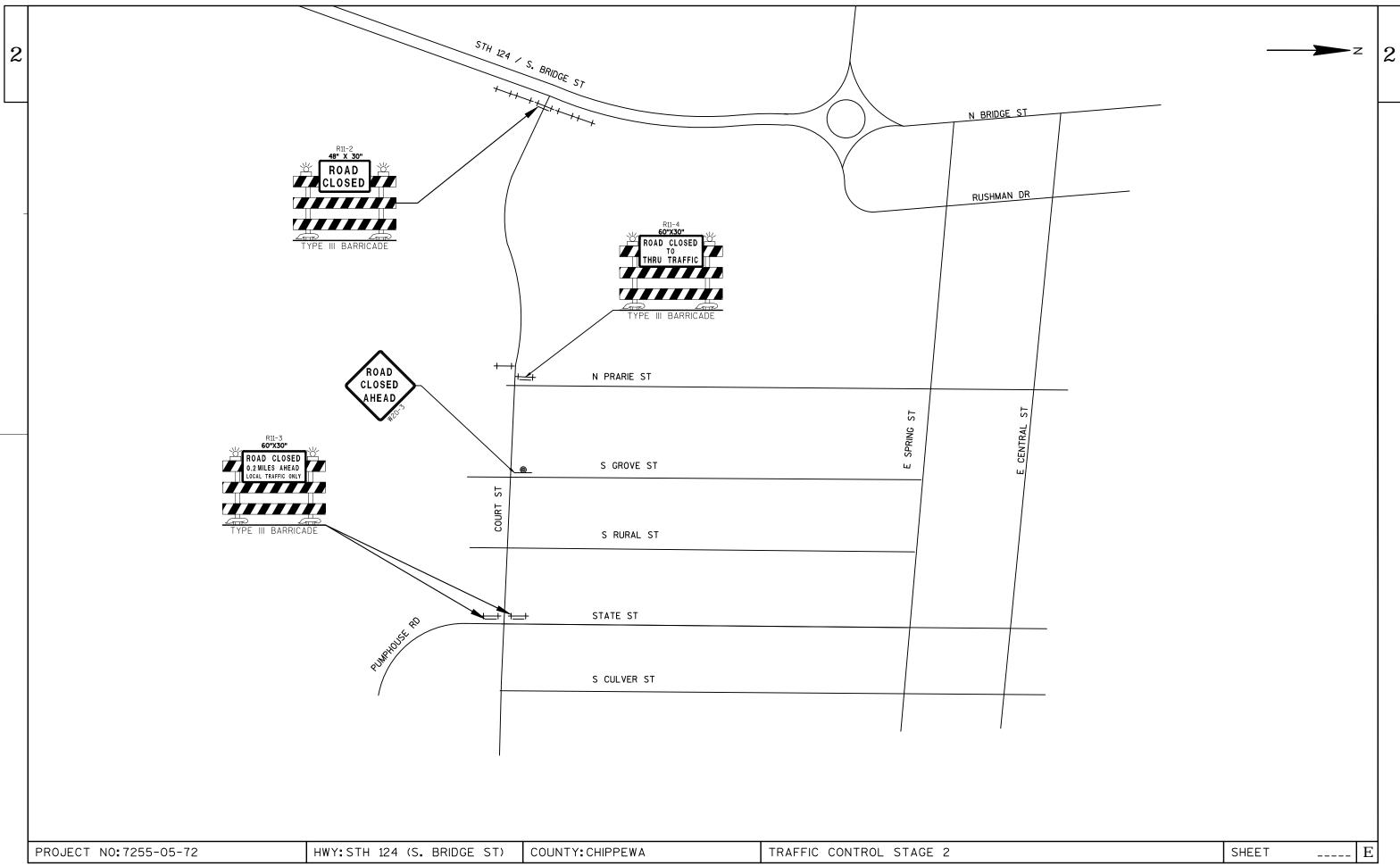
PLOT DATE: 1/30/2014 4:11 PM

PLOT BY : JUSTIN SHAVLIK

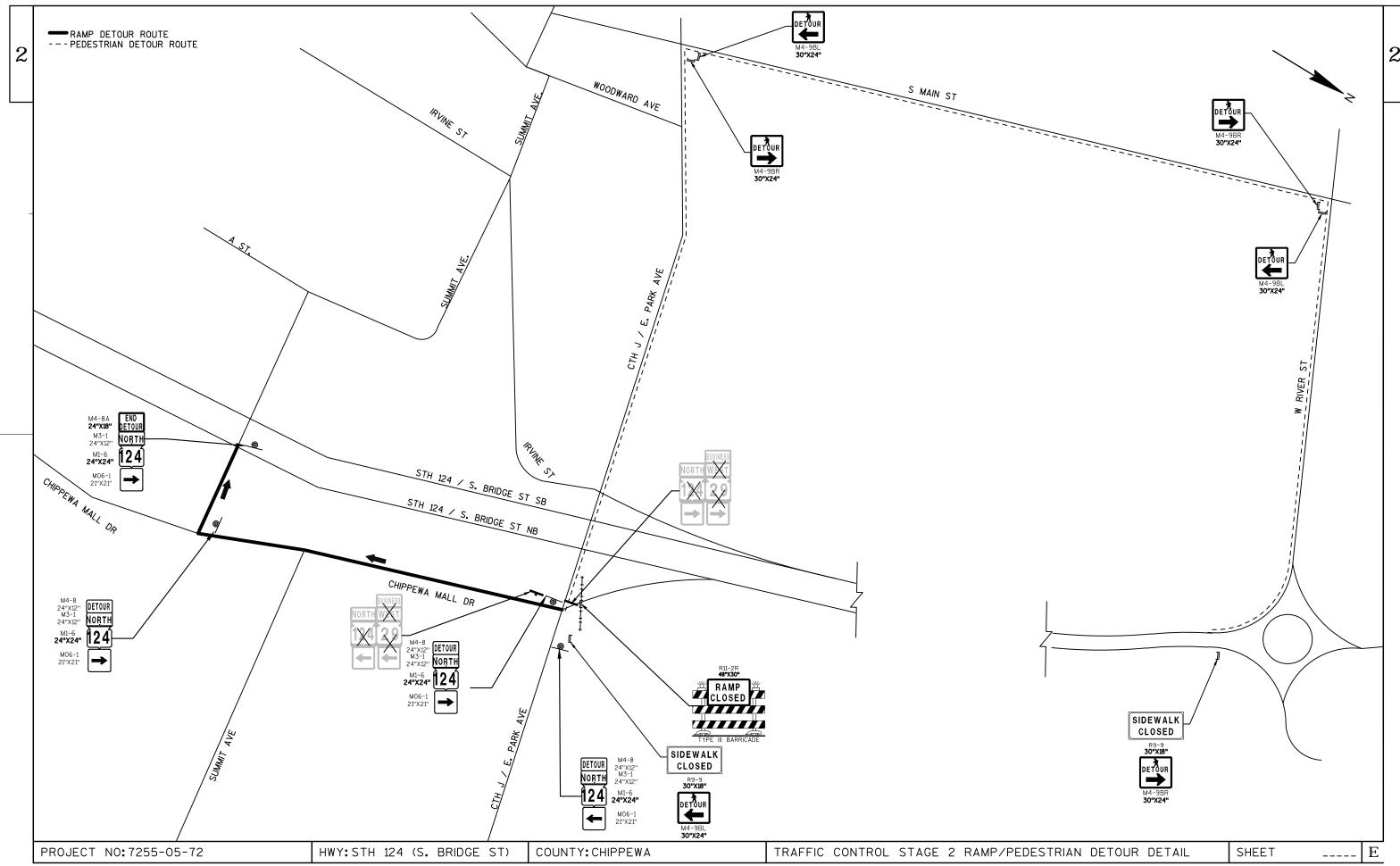
PLOT SCALE : 1:50_XREF





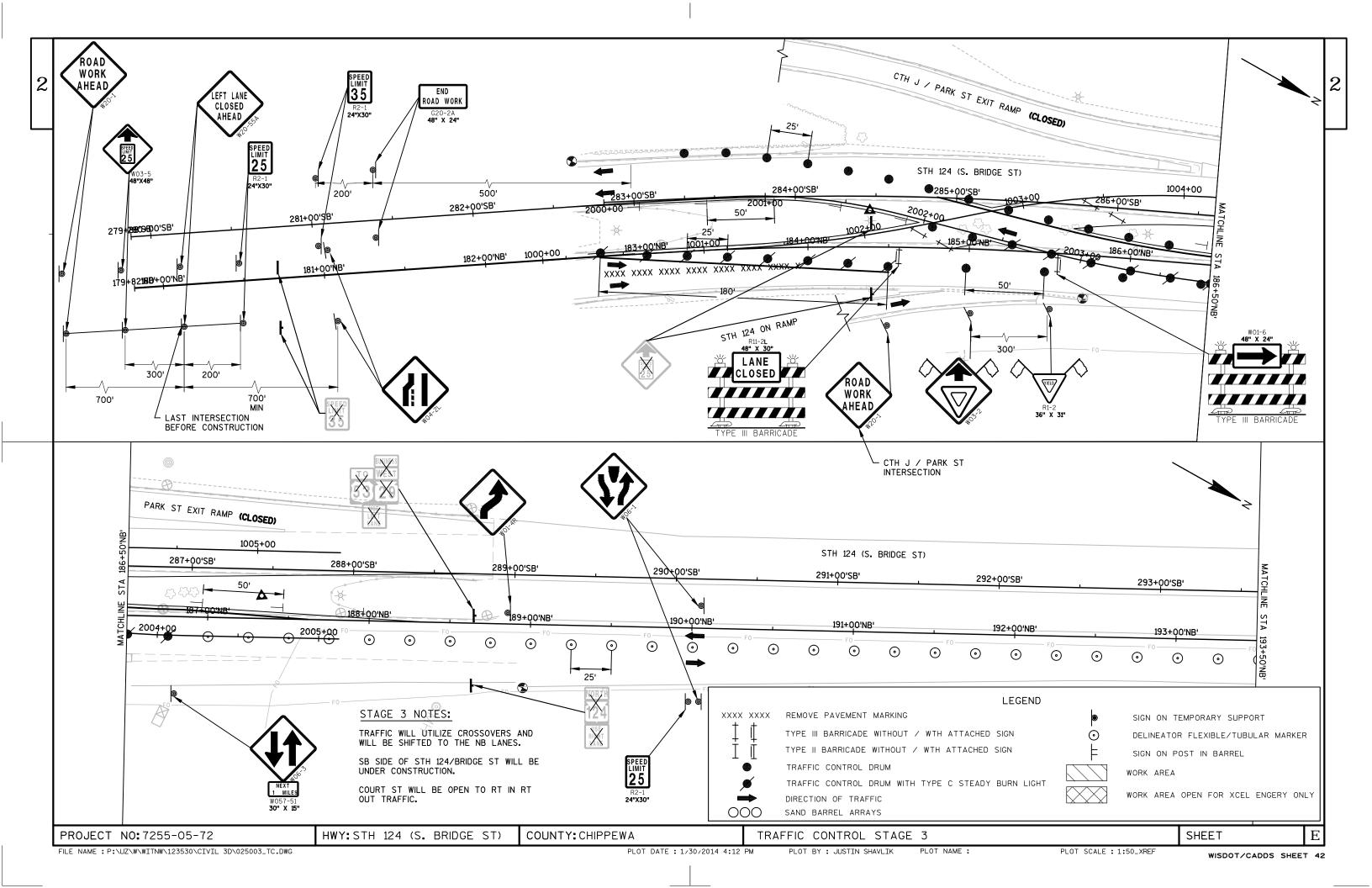


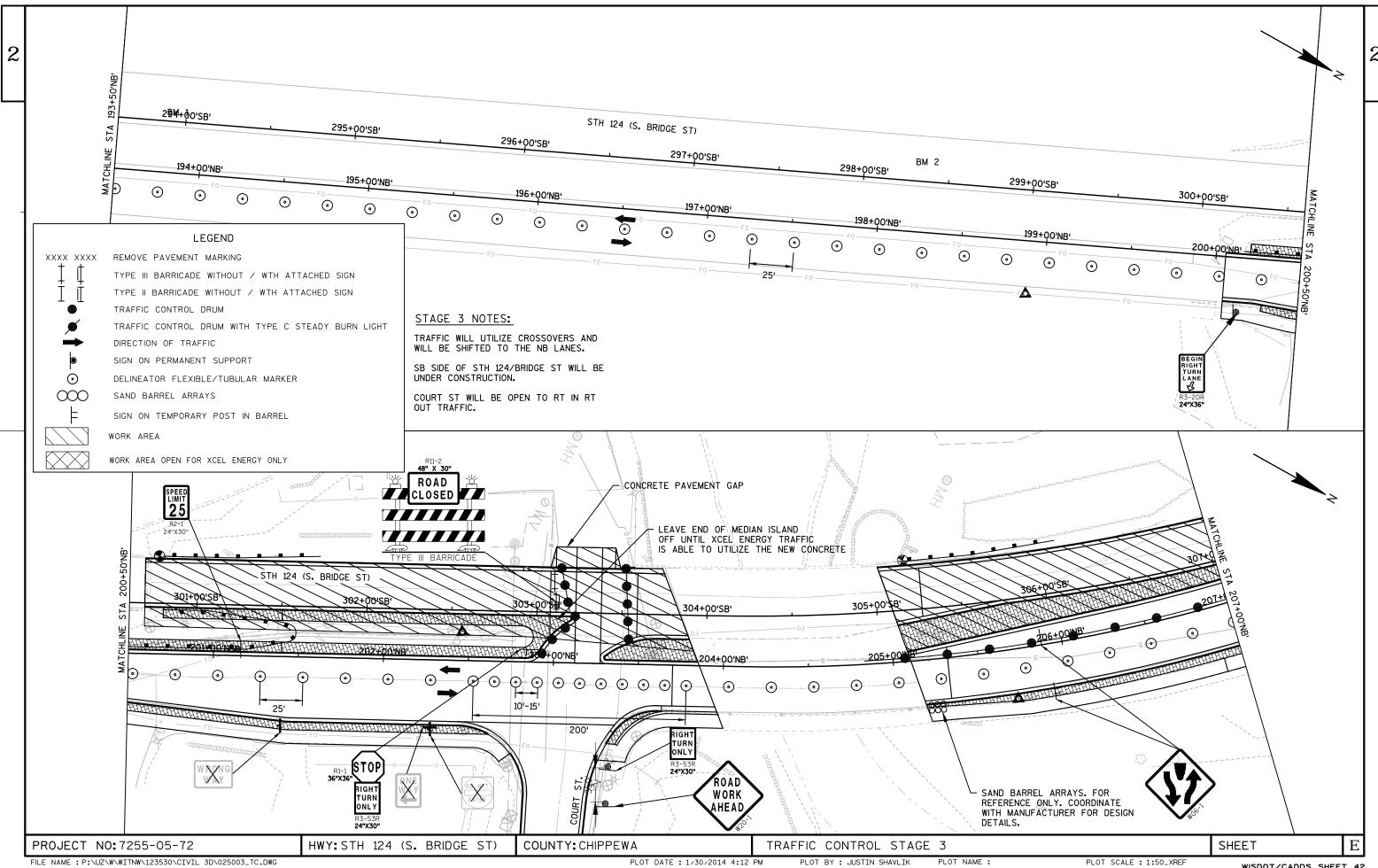
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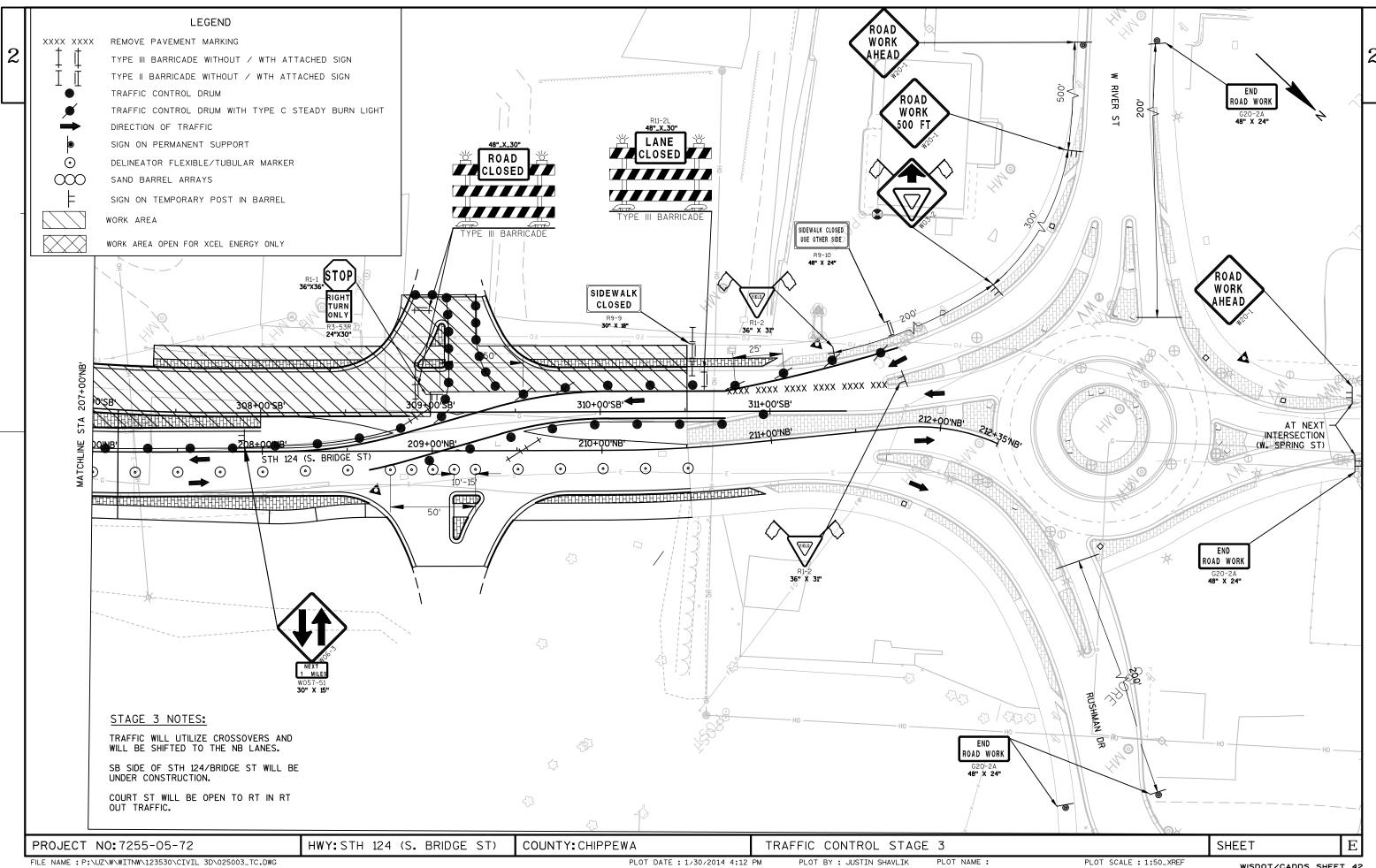


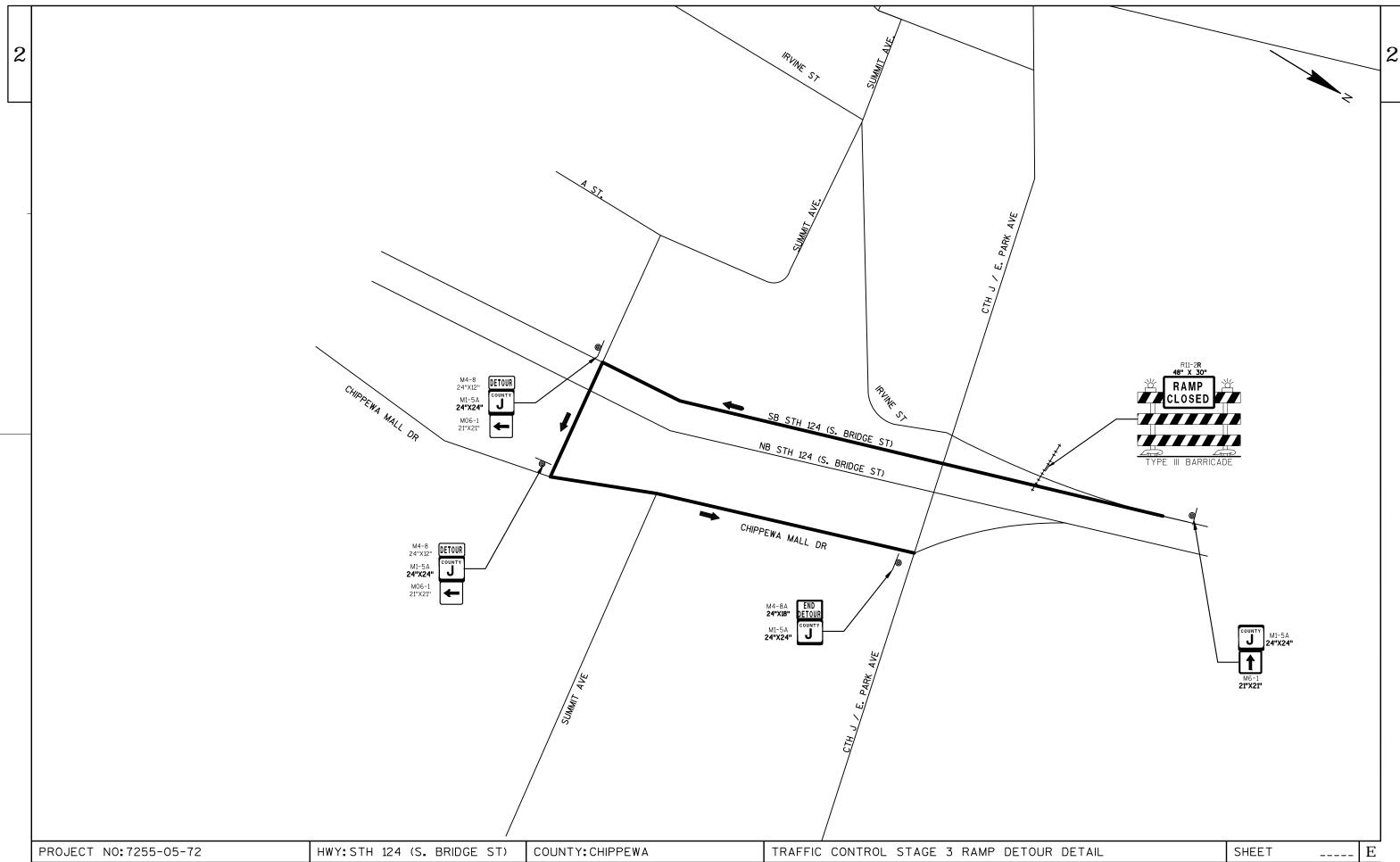
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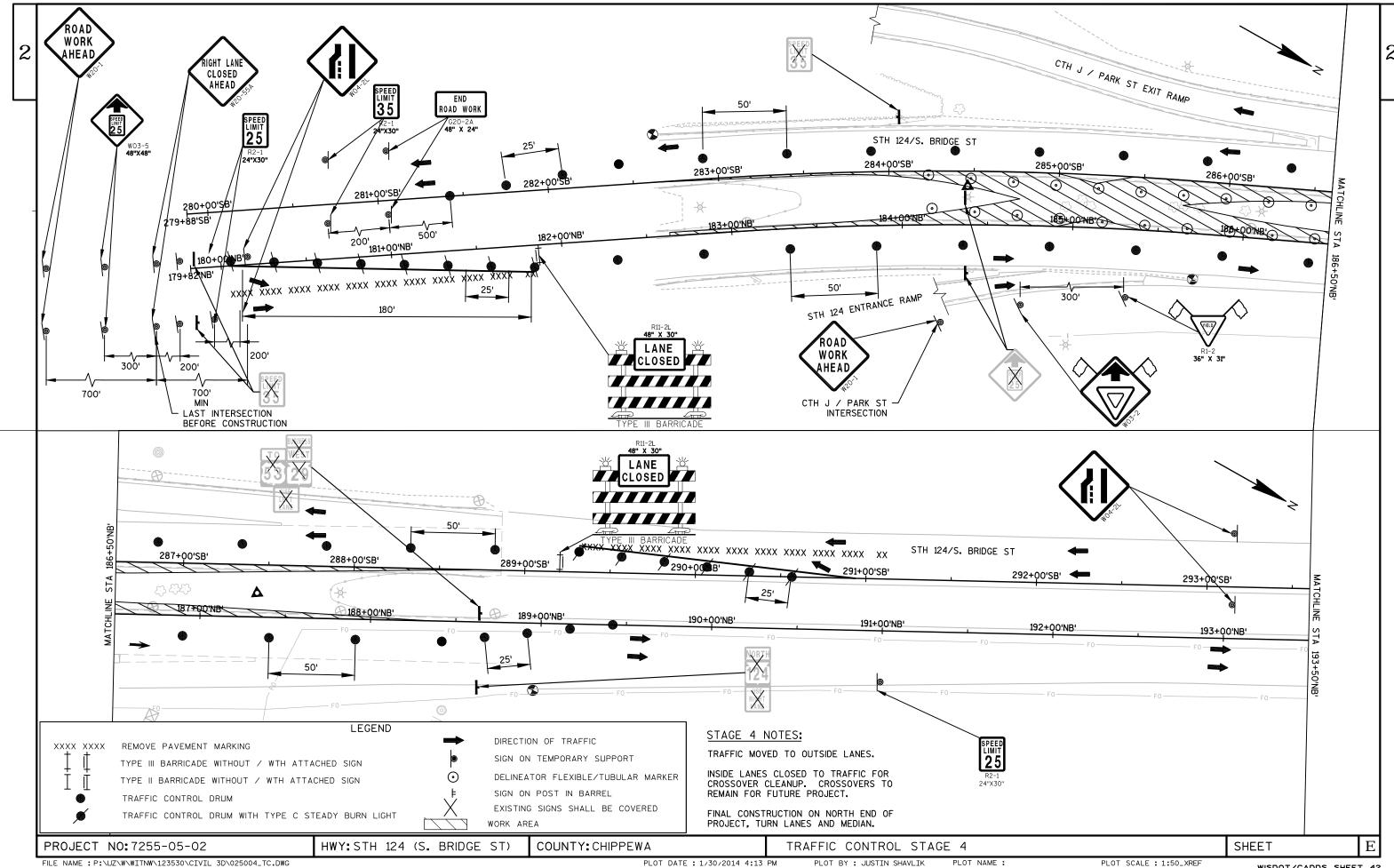
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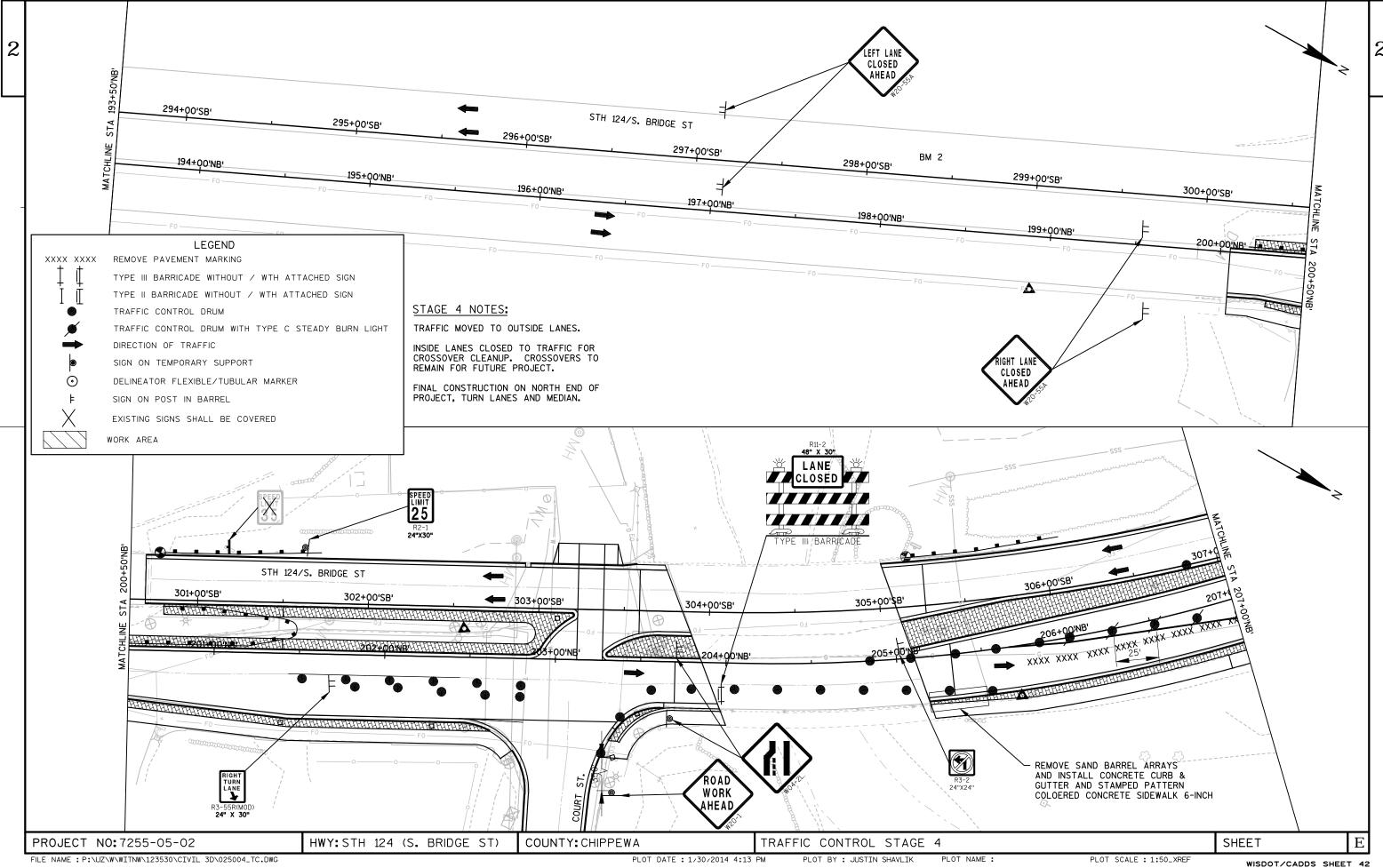


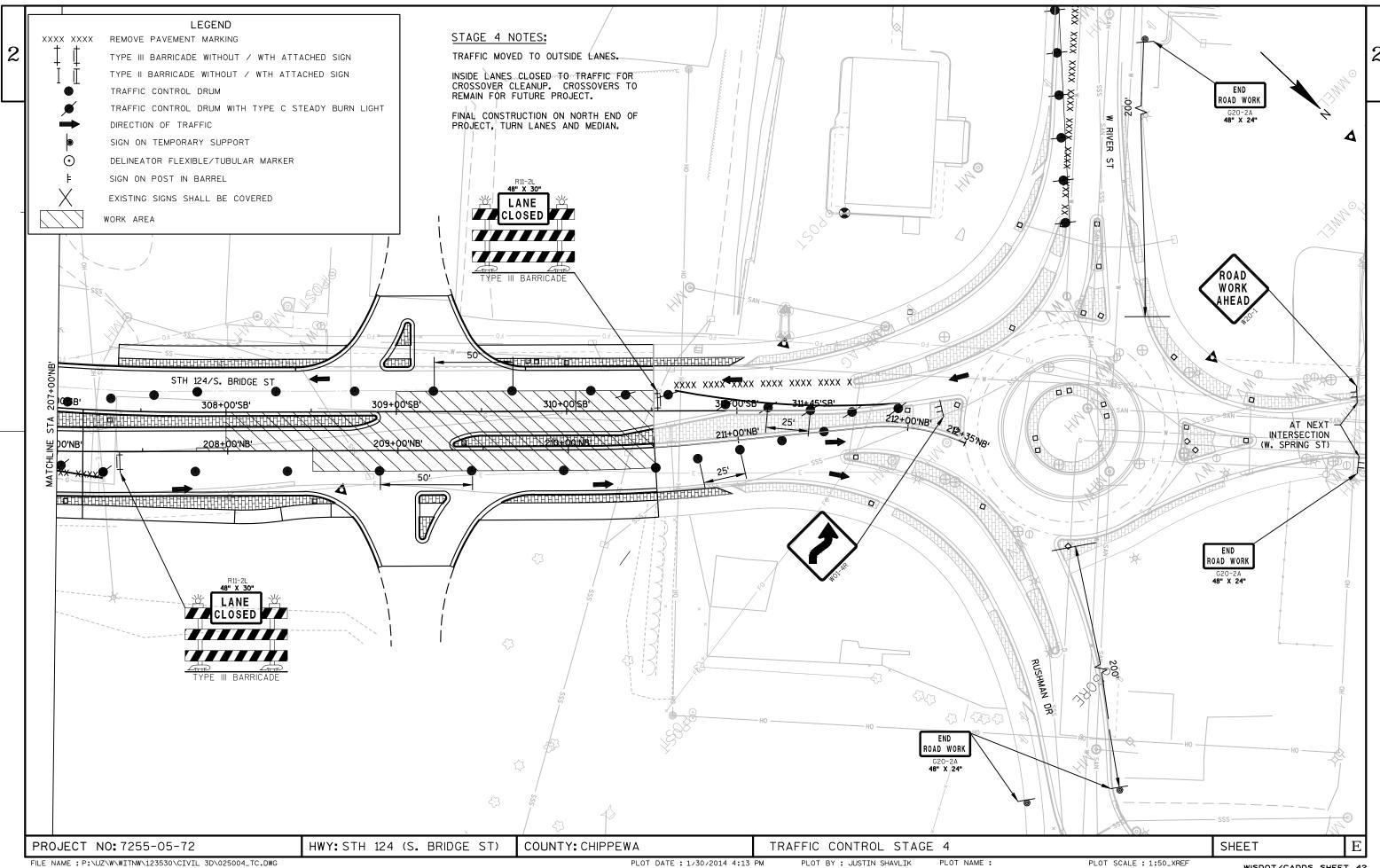


FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\025004_TC.DWG

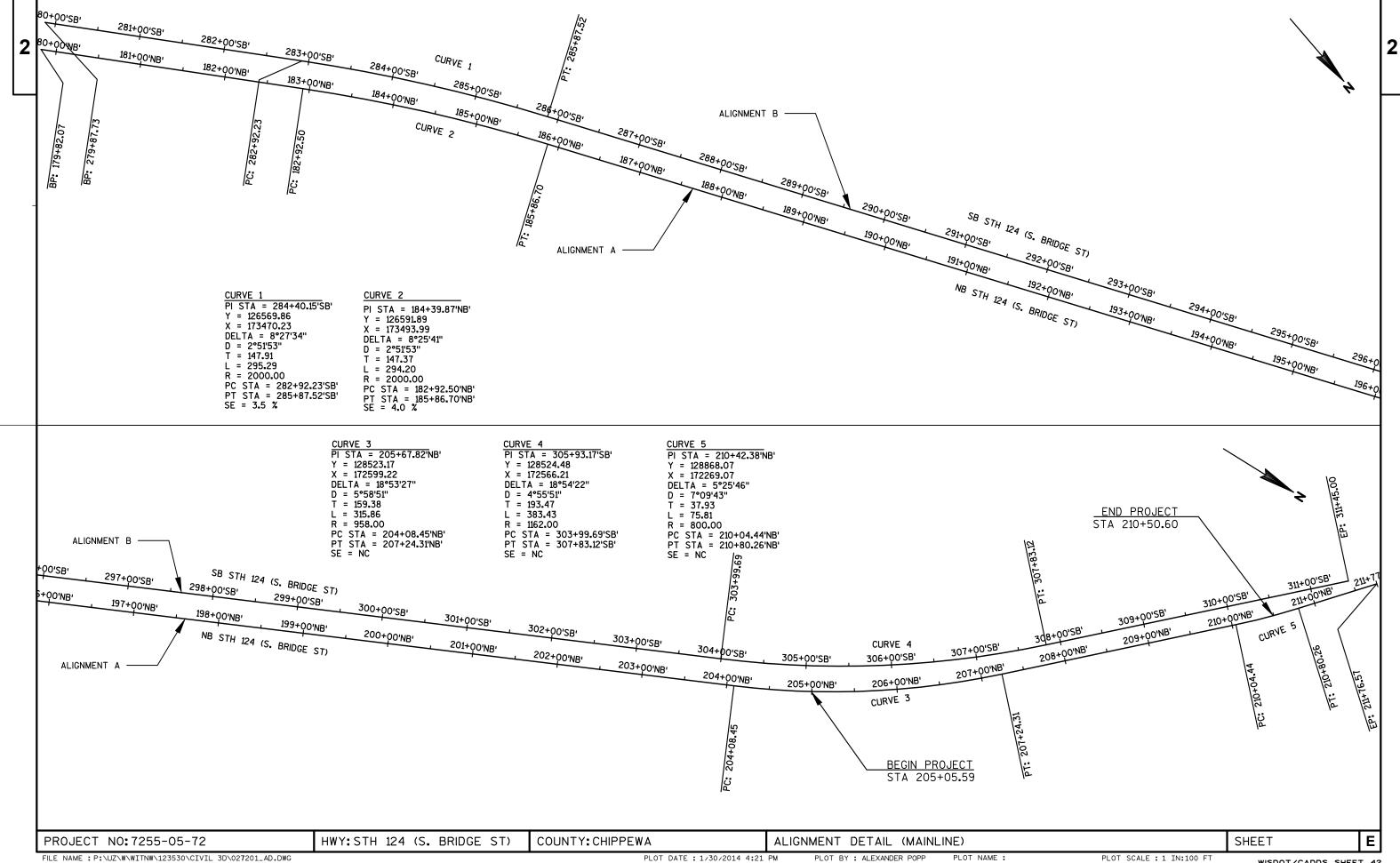
PLOT DATE : 1/30/2014 4:13 PM

PLOT SCALE : 1:50_XREF

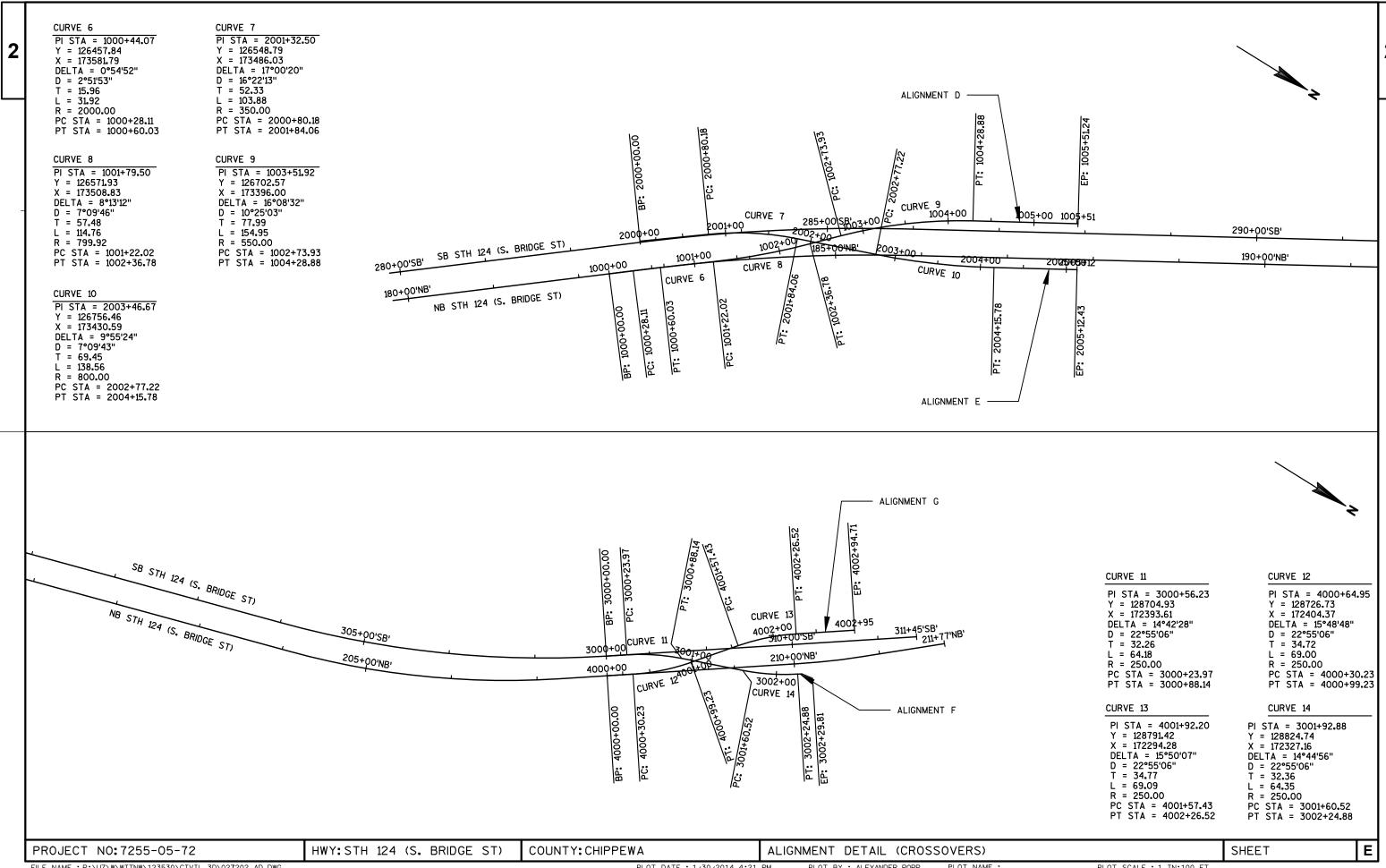




WISDOT/CADDS SHEET 42



WISDOT/CADDS SHEET 42



Alignment A	Tar	ngent Data	
Description		Northing	Easting
Start:	179+82.072	126209.202	173745.235
End:	182+92.501	126468.701	173574.864
	Tar	ngent Data	Act of the second
Parameter	Value	Parameter	Value
Length:	310.42	9 Course:	N 33° 17' 11.2726" W
	Curv	e Point Data	
Description	Station	Northing	Easting
PC:	182+92.501	126468.701	173574.864
PI:	184+39.866	126591.889	173493.986
PT:	185+86.700	126725.601	173432.037
	Circul	ar Curve Data	
Parameter	Value	Parameter	Value
Delta:	08° 25' 41.4546"	Type:	RIGHT
Radius:	200	0	
Length:	294.19	9 Tangent:	147.365
Mid-Ord:		7 External:	5.422
Chord:	293.93	4 Course:	N 29° 04' 20.5453" W
14.15	Tar	ngent Data	And the second
Description		Northing	Easting
Start:	185+86.700	126725.601	
End:	204+08.447	128378.564	172666.220
		ngent Data	7.77.77.77
Parameter	Value	Parameter	Value
Length:	1821.74	7 Course:	N 24° 51' 29.8179" W
	Curv	e Point Data	
Description	Station	Northing	Easting
PC:	204+08.447	128378.564	172666.220
PI:	205+67.822	128523.174	172599.222
PT:	207+24.305	128638.303	172489.014
	Circul	ar Curve Data	
Parameter	Value	Parameter	Value
Delta:	18° 53' 26.7864"	Type:	LEFT
Radius:	95	8	
Length:	315.85	9 Tangent:	159.376
Mid-Ord:	12.98	8 External:	13.167
Chord:	314.4	3 Course:	N 34° 18' 13.2111" W
	Tai	ngent Data	errer director
Description	PT Station	Northing	Easting
Start:	207+24.305	128638.303	172489.014
End:	210+04.444	128840.668	172295.297
	Tar	ngent Data	7,777,777
Parameter	Value	Parameter	Value
Length:	280.13	9 Course:	N 43° 44' 56.6043" W
	Curv	e Point Data	
Description		Northing	Easting
PC:	210+04.444	128840.668	172295.297
PI:	210+42.378	128868.071	172269.066
PT:	210+80.255	128892.868	172240.359
		ar Curve Data	
Parameter	Value	Parameter	Value
Delta:	05° 25' 46.3866"	Type:	LEFT
Radius:	80		
Length:		1 Tangent:	37.934
Mid-Ord:	0.89	8 External:	0.899
Chord:	75.78	2 Course:	N 46° 27' 49.7977" W
2011	Tar	ngent Data	OCA UNITARY
Description	PT Station	Northing	Easting
Start:	210+80.255	128892.868	172240.359
	211+76.570	128955.829	172167.473
End:			
End:	Tar	ngent Data	
End: Parameter	Value Tar	ngent Data Parameter	Value

Description		ngent Data	F	
Description		Northing	Easting 173718 48	
Start End:	279+87.733	126191.64		
End:	282+92.234	126446.202 ngent Data	173551.395	
Param eter	Value	Parameter	Value	
Length:	11.411414		N 33° 16' 48.1557" W	
Lengur.		e Point Data	1433 10 40.1337 14	
Description		Northing	Easting	
PC:	282+92.234	126446.202		
PI:	284+40.146	126569.857	173470.231	
PT:	285+87.521	126704.106	173408.141	
	Circul	ar Curve Data		
Param eter	Value	Parameter	Value	
Delta:	08° 27' 33.6318" Type:		RIGHT	
Radius:	200	00		
Length:	295.28	147.912		
Mid-Ord:	5.44	7 External:	5.462	
Chord:	295.01	9 Course:	N 29° 03' 01.3398" W	
	Ta	ngent Data	A 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Description		Northing	Easting	
Start	285+87.521	126704.106		
End:	303+99.692	128348.879	172647.427	
		ngent Data		
Param eter	Value	Parameter	Value	
Length:		1 Course:	N 24° 49' 14.5238" W	
D		e Point Data	F	
Description		Northing	Easting	
PC:	303+99.692	128348.879	7	
PI:	305+93.167	128524.482	100000	
PT:	307+83.124	128664.295	172432.477	
		ar Curve Data	Value	
Param eter	Value	Parameter	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Delta	18° 54' 22.3937"		LEFT	
Radius:	116	-	0.000	
Length:		2 Tangent:	193.475	
The second second	Mid-Ord: 15.78 External:		15.997	
Chord:		5 Course:	N 34° 16' 25.7207" W	
Description	PT Station	ngent Data Northing	Easting	
Start	307+83.124	128664.295		
End:	311+45.000	128925.802		
EIIU.	Carried Control	ngent Data	172182.34	
Param eter	Value	Parameter	Value	
			1 441 44 44	

	Tan	igent Data			
Description	PT Station	Northing	Easting		
Start	10+00.000	128304.127	172740.382		
End:	11+17.355	128343.753	172850.845		
	Tan	igent Data			
Param eter	Value	Parameter	Value		
Length:	117.35	5 Course:	N 70° 15' 56.9668" E		
	Curve	e Point Data			
Description	Station	Northing	Easting		
PC:	11+17.355	128343.753	172850.845		
PI:	11+36.182	128350.110	172868.56		
PT:	11+54.996	128355.318	172886.65		
	Circula	ar Curve Data			
Param eter	Value	Parameter	Value		
Delta:	03° 40' 26.6659"	Type:	RIGHT		
Radius:	58	7			
Length:	37.64	1 Tangent:	18.827		
Mid-Ord:	0.30	2 External:	0.30		
Chord:	37.63	5 Course:	N 72° 06' 10.2998" E		
	Tan	igent Data			
Description	PT Station	Northing	Easting		
Start	11+54.996	128355.318	172886.659		
End:	12+94.266	128393.846	173020.493		
	Tan	igent Data	1 - 400 Yes		
Param eter	Value	Parameter	Value		
Length:	139.2	7 Course:	N 73° 56' 23.6328" E		

PROJECT NO:7255-05-72 HWY:STH 124 (S. BRIDGE ST) COUNTY:CHIPPEWA ALIGNMENT DESCRIPTION SHEET E

Alignment D

	Tar	ngent Data	
Description	PT Station		Easting
Start	1000+00.000	126421.09	
End:	1000+28.109	126444.527 ngent Data	
Param eter	Value	Parameter	Value
Length:			N 33° 30' 42.7494" W
Lengui.		e Point Data	1133 30 42.1434 11
Description		Northing	Easting
PC:	1000+28.109	126444.527	173590.603
PI:	10000+44.072	126457.836	
PT:	1000+60.033	126471.284	
	Circula	ar Curve Data	
Param eter	Value	Parameter	Value
Delta:	00° 54' 52.4048"	Type:	RIGHT
Radius:	200		
Length:	31.92	4 Tangent:	15.962
Mid-Ord:		4 External:	0.064
Chord:	31.92	4 Course:	N 33° 03' 16.5470" W
		ngent Data	
Description	PT Station	Northing	Easting
Start	1000+60.033	126471.284	173573.19
End:	1001+22.019	126523.505	173539.797
		ngent Data	
Param eter	Value	Parameter	Value
Length:	61.98	5 Course:	N 32° 35' 50.3446" W
		e Point Data	medial filtre
Description		Northing	Easting
PC:	1001+22.019	126523.505	
PI:	1001+79.497	126571.929	
PT:	1002+36.778	126615.428	173471.261
		ar Curve Data	
Param eter	Value	Parameter	Value
Delta	08° 13' 11.5355"		LEFT
Radius:	799.91		U.S.D.
Length:		9 Tangent:	57.478
Mid-Ord:		7 External:	2.062
Chord:		1 Course: ngent Data	N 36° 42' 26.1123" W
Description		Northing	Easting
Start	1002+36.778	126615.428	
End:	1002+73.930	126643.545	
	Tar	ngent Data	
Param eter	Value	Parameter	Value
Length:	37.15	2 Course:	N 40° 49' 01.8800" W
	Curv	e Point Data	
Description	Station	Northing	Easting
PC:	1002+73.930	126643.545	
PI:	1003+51.923	126702.57	173395.997
PT:	1004+28.883	126773.442	173363.437
-	Circula	ar Curve Data	A CANA
Param eter	Value	Parameter	Value
Delta	16° 08' 31.6084"	Type:	RIGHT
Radius:	55		
Length:		3 Tangent:	77.993
Mid-Ord:		8 External:	5.502
Chord:			N 32° 44' 46.0758" W
Description		ngent Data	E444
Description	PT Station	Northing	Easting
Start	1004+28.883	126773.442	
End:	1005+51.244	126884.63	173312.355
	72 12 1	ngent Data	11-1
Param eter	Value	Parameter	Value
Length:	400 00	1 Course:	N 24° 40' 30 2716" W

	10	ngent Data	
Description	PT Station	Northing	Easting
Start	2000+00.000	126436.363	
End:	2000+80.178	126504.392	173513.719
		ngent Data	
Param eter	Value	Parameter	Value
Length:		8 Course:	N 31° 57' 10.5468" W
		e Point Data	For Male
Description	Station	Northing	Easting
PC:	2000+80.178	126504.392	
Pla	2001+32.503	126548.789	
PT:	2001+84.059	126599.344	173472.531
		ar Curve Data	V-t
Param eter	Value	Parameter	Value
Delta:	17° 00' 19.7891"		RIGHT
Radius:	35		12.000
Length:		11 Tangent:	52.325
Mid-Ord:	3.84	3.89	
Chord:	103.	5 Course:	N 23° 27' 00.6523" W
		ngent Data	
Description	PT Station	Northing	Easting
Start	2001+84.059	126599.344	173472.531
End:	2002+77.222	126689.354	173448.501
		ngent Data	
Param eter	Value	Parameter	Value
Length:	17.71.77	3 Course:	N 14° 56' 50.7578" W
		e Point Data	
Description		Northing	Easting
PC:	2002+77.222	126689.354	
PI:	2003+46.673	126756.456	
PT:	2004+15.777		173401.378
		ar Curve Data	
Param eter	Value	Parameter	Value
Delta:	09° 55' 23.9817"		LEFT
Radius:	80		
Length:		6 Tangent:	69.452
Mid-Ord:		8 External:	3.009
Chord:	0.70.00	3 Course:	N 19° 54' 32.7487" W
		ngent Data	
Description	PT Station	Northing	Easting
Start	2004+15.777	126819.466	
End:	2005+12.434	126907.159	173360.727
_		ngent Data	
Param eter	Value	Parameter	Value
Length:	96.65	6 Course:	N 24° 52' 14.7395" W

		gent Data			
Description	PT Station	Northing	Easting		
Start	3000+00.000	128664.295	172432.477		
End:	3000+23.967	172415.911			
	Tan	gent Data			
Param eter	Value	Parameter	Value		
Length:		7 Course: e Point Data	N 43° 43' 17.0336" W		
Description	Station	Northing	Easting		
PC:	3000+23.967	128681.616	172415.911		
PI:	3000+56.232	128704.934	10 2000 010, 000, 100		
PT:	3000+88.143	128733.15	172377.962		
PI.			172377.902		
D		r Curve Data	Value		
Param eter	Value	Parameter			
Delta:		71	RIGHT		
Radius:	250				
Length:		5 Tangent:	32.265		
Mid-Ord:		3 External:	2.073		
Chord:			N 36° 22' 02.9211" W		
	Tan	gent Data			
Description	PT Station	Northing	Easting		
Start	3000+88.143	128733.15	172377.962		
End:	3001+60.524	128796.448	172342.856		
	Tan	gent Data			
Param eter	Value	Parameter	Value		
Length:	72.38	1 Course:	N 29° 00' 48 8085" W		
	Curve	Point Data	1144 45 10444		
Description	Station	Northing	Easting		
PC:	3001+60.524	128796.448			
PI:	3001+92.880	128824.744			
PT:	3002+24.879	128848.112			
FI.	3002+24.879 128848.1 Circular Curve Data		172304.763		
Param eter	Value	Parameter	Value		
Delta	14° 44' 56.4466"		LEFT		
Radius:	250		LEFT		
			20.050		
Length:	04.350	5 Tangent:	32.356		
Mid-Ord:		3 External:	2.085		
Chord:			N 36° 23' 17.0318" W		
		gent Data			
Description	PT Station	Northing	Easting		
Start	3002+24.879	128848.112			
End:	3002+29.807	128851.671	172301.374		
		gent Data			
Param eter	Value	Parameter	Value		
Length:	4.000	Course:	N 43° 45' 45.2551" W		

Alignment G	Ton	acet Date	
Description	PT Station	gent Data Northing	Easting
Start	4000+00.000	128679.809	
20,140,000			
End:	4000+30.233	128701.649	172428.375
		gent Data	17.1
Param eter	Value	Parameter	Value
Length:		3 Course: e Point Data	N 43° 44' 56.6043" W
Description	Station	Northing	Easting
PC:	4000+30.233	128701.649	
		128701.649	
PI:	4000+64.953	The second second	
PT:	4000+99.232	128744.319	172374.431
D		Parameter	Value
Param eter Delta:	Value		6 70177
	15° 48' 47.7492"	21	LEFT
Radius:	250		0.1.70
Length:		3 Tangent:	34.72
Mid-Ord:		7 External:	2.399
Chord:			N 51° 39' 20.4789" W
		gent Data	
Description	PT Station	Northing	Easting
Start	4000+99.232	128744.319	
End:	4001+57.429	128773.801	172324.255
		gent Data	
Param eter	Value	Parameter	Value
Length:			N 59° 33' 44.3535" W
		Point Data	
Description	Station	Northing	Easting
PC:	4001+57.429	128773.801	172324.258
PI:	4001+92.198	128791.415	172294.277
PT:	4002+26.524	128816.541	172270.244
	Circula	r Curve Data	
Param eter	Value	Parameter	Value
Delta:	15° 50' 07.4360"	Type:	RIGHT
Radius:	250)	
Length:	69.098	5 Tangent:	34.769
Mid-Ord:	2.383	3 External:	2.406
Chord:	68.875	5 Course:	N 51° 38' 40.6356" W
	Tan	gent Data	
Description	PT Station	Northing	Easting
Start	4002+26.524	128816.541	
End:	4002+94.707	128865.813	
		gent Data	
Param eter	Value	Parameter	Value

PROJECT NO:7255-05-72 HWY:STH 124 (S. BRIDGE ST) COUNTY:CHIPPEWA ALIGNMENT DESCRIPTION SHEET E

PLOT NAME :

DATE 06	MAR14	E S	TIMATE	OFQUAN		
LI NE NUMBER	LTEM	LTEM DESCRIPTION	LINII T	TOTAL	7255-05-72	
0010	204. 0100	I TEM DESCRIPTION REMOVING PAVEMENT	UNI T SY	TOTAL 6, 850. 000	QUANTI TY 6, 850. 000	
0020	204. 0110	REMOVING ASPHALTIC SURFACE	SY	1, 208. 000	1, 208. 000	
0030	204. 0150	REMOVING CURB & GUTTER	LF	1, 223. 000	1, 223. 000	
0040	204. 0155	REMOVING CONCRETE SIDEWALK	SY	1, 500. 000	1, 500. 000	
0050	204. 0160	REMOVING LIP CURB	LF	215. 000	215. 000	
0060	204. 0165	REMOVI NG GUARDRAI L	LF	455. 000	455. 000	
0070	204. 0195	REMOVING CONCRETE BASES	EACH	6. 000	6.000	
0800	204.0220	REMOVING INLETS	EACH	7. 000	7.000	
0090	204. 0245	REMOVING STORM SEWER (SIZE) 01. 15-INCH	LF	244.000	244.000	
0100	204. 0280	SEALING PIPES	EACH	4. 000	4. 000	
0110		REMOVING (ITEM DESCRIPTION) 01. CABLES	LF	932.000	932.000	
0120	205. 0100	EXCAVATION COMMON **P**	CY	4, 425. 000	4, 425. 000	
0130	208. 0100	BORROW	CY	480. 000	480. 000	
0140	213. 0100	FINISHING ROADWAY (PROJECT) 01. 7255-05-72	EACH	1. 000	1. 000	
0150	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	20. 000	20. 000	
0160	305. 0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	3, 516. 000	3, 516. 000	
0170	415.0210	CONCRETE PAVEMENT GAPS	EACH	1. 000	1.000	
0180	415.0410	CONCRETE PAVEMENT APPROACH SLAB	SY	275. 000	275. 000	
0190	415. 1100	CONCRETE PAVEMENT HES 10-INCH	SY	90.000	90.000	
0200	416. 0170	CONCRETE DRIVEWAY 7-INCH	SY	30. 000	30. 000	
0210	416. 0270	CONCRETE DRIVEWAY HES 7-INCH	SY	20. 000	20. 000	
0220	416.0610	DRILLED TIE BARS	EACH	395.000	395.000	
0230	416.0620	DRILLED DOWEL BARS	EACH	124.000	124.000	
0240		INCENTIVE IRI RIDE	DOL	31, 652. 000	31, 652. 000	
0250	465. 0105	ASPHALTIC SURFACE	TON	14. 000	14. 000	
0260	465. 0125	ASPHALTIC SURFACE TEMPORARY	TON	240. 000	240. 000	
0270	520.8000	CONCRETE COLLARS FOR PIPE	EACH	2.000	2.000	
0280	601. 0409	CONCRETE CURB & GUTTER 30-INCH TYPE A	LF	4, 782. 000	4, 782. 000	
0290	601. 0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	42.000	42.000	
0300	602. 0405	CONCRETE SIDEWALK 4-INCH	SF	7, 211. 000	7, 211. 000	
0310	602. 0415	CONCRETE SIDEWALK 6-INCH	SF	1, 409. 000	1, 409. 000	
0320	602. 0505	CURB RAMP DETECTABLE WARNING FIELD	SF	160. 000	160. 000	
		YELLOW				
0330		S STORM SEWER PIPE (INCH) 01. 12-INCH	LF	238. 000	238.000	
0340		STORM SEWER PIPE (INCH) 02. 15-INCH	LF	81. 000	81. 000	
0350	611. 0420	RECONSTRUCTI NG MANHOLES	EACH	1. 000	1. 000	
0360	611. 0430	RECONSTRUCTING INLETS	EACH	3.000	3.000	
0370	611. 0530	MANHOLE COVERS TYPE J	EACH	1. 000	1.000	
0380	611. 0624	INLET COVERS TYPE H	EACH	9. 000	9. 000	
0390	611. 1230	CATCH BASINS 2X3-FT	EACH	9. 000	9. 000	
0400	611. 8110	ADJUSTING MANHOLE COVERS	EACH	1. 000	1. 000	
0410	611. 8115	ADJUSTING INLET COVERS	EACH	6. 000	6. 000	
0420	614. 0200	STEEL THRIE BEAM STRUCTURE APPROACH	LF	14. 400	14. 400	
0430	614. 0220	STEEL THRIE BEAM BULLNOSE TERMINAL	EACH	1. 000	1.000	
0440	614. 0230	STEEL THRIE BEAM	LF	91.000	91. 000	
0450	614. 0700	SAND BARRELS ARRAYS	EACH	2. 000	2. 000	
0460	614. 2500	MGS THRIE BEAM TRANSITION	LF	78. 800	78. 800	
0470	614. 2610	MGS GUARDRAIL TERMINAL EAT	EACH	2.000	2.000	
0480	619. 1000	MOBILIZATION	EACH	1. 000	1. 000	
0490	620. 0200	CONCRETE MEDIAN BLUNT NOSE	SF	80.000	80.000	
0500	620. 0300	CONCRETE MEDIAN SLOPED NOSE	SF	140. 000	140. 000	
0510	625. 0100	TOPSOI L	SY	1, 150. 000	1, 150. 000	
0520	627. 0200	MULCHI NG	SY	1, 150. 000	1, 150. 000	

DATE 06 LINE	MAR14	EST	IMAT	E O F Q U A N	T I T I E S 7255-05-72	
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY	
0530	628. 1504	SILT FENCE	LF	400.000	400.000	
0540	628. 1520	SILT FENCE MAINTENANCE	LF	400.000	400. 000	
0550	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	1. 000	1. 000	
0560 0570	628. 1910 628. 7005	MOBILIZATIONS EMERGENCY EROSION CONTROL INLET PROTECTION TYPE A	EACH EACH	1. 000	1. 000 20. 000	
0570	628. 7005	INLET PROTECTION TYPE A	EACH	20. 000 20. 000	20. 000	
0590	629. 0210	FERTILIZER TYPE B	CWT	1. 000	1. 000	
0600	630. 0140	SEEDING MIXTURE NO. 40	LB	30. 000	30. 000	
0610	630. 0200	SEEDING TEMPORARY	LB	30. 000	30. 000	
0620	633. 1100	DELINEATORS TEMPORARY	EACH	60.000	60.000	
0630	634. 0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	3.000	3.000	
0640	634. 0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	8. 000	8. 000	
0650	634. 0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	5. 000	5. 000	
0660	634. 0814	POSTS TUBULAR STEEL 2X2-INCH X 14-FT	EACH	9.000	9.000	
0670	634. 0816 637. 2210	POSTS TUBULAR STEEL 2X2-INCH X 16-FT SIGNS TYPE II REFLECTIVE H	EACH	6. 000 150, 040	6.000	
0680 0690	637. 2210 637. 2230	SIGNS TYPE II REFLECTIVE H	SF SF	159. 040 9. 000	159. 040 9. 000	
0700	638. 2102	MOVING SIGNS TYPE II	EACH	4. 000	4. 000	
0710	638. 2602	REMOVING SIGNS TYPE II	EACH	21. 000	21. 000	
0710	638. 3000	REMOVING STANS TIPE TO	EACH	13. 000	13. 000	
0730	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 7255-05-72	EACH	1. 000	1. 000	
0740	643. 0300	TRAFFIC CONTROL DRUMS	DAY	9, 382. 000	9, 382. 000	
0750	643. 0410	TRAFFIC CONTROL BARRICADES TYPE II	DAY	904.000	904.000	
0760	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	2, 338. 000	2, 338. 000	
0770	643. 0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	EACH	244. 000	244. 000	
0780	643. 0600	POSTS TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	244. 000	244. 000	
0790	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	5, 028. 000	5, 028. 000	
0800	643. 0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	2, 768. 000	2, 768. 000	
0810	643. 0900	TRAFFIC CONTROL SIGNS	DAY	5, 568. 000	5, 568. 000	
0820	643. 0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	8.000	8. 000	
0830	643. 2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 7255-05-72	EACH	1. 000	1. 000	
0840	643. 3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	1, 884. 000	1, 884. 000	
0850	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	4, 568. 000	4, 568. 000	
0860	646. 0126	PAVEMENT MARKING EPOXY 8-INCH	LF	614. 000	614. 000	
0870	646. 0600	REMOVING PAVEMENT MARKINGS	LF	368. 000	368. 000	
0880	647. 0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	9. 000	9. 000	
0890	647. 0356	PAVEMENT MARKING WORDS EPOXY	EACH	5.000	5.000	
0900	647. 0456	PAVEMENT MARKING CURB EPOXY	LF	45. 000	45. 000	
0910	647. 0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	60. 000	60.000	
0920	647. 0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	3.000	3. 000	
0930	647. 0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	360.000	360.000	
0940 0950	649. 0100 649. 0400	TEMPORARY PAVEMENT MARKING 4-INCH TEMPORARY PAVEMENT MARKING REMOVABLE	LF LF	3, 786. 000 10, 774. 000	3, 786. 000 10, 774. 000	
0730	U47. U4UU	TAPE 4-INCH	LF	10, 774.000	10, 774.000	
0960	650. 4000	CONSTRUCTION STAKING STORM SEWER	EACH	20. 000	20. 000	
0970	650. 4500	CONSTRUCTION STAKING SUBGRADE	LF	920. 000	920. 000	
0980	650. 7000	CONSTRUCTION STAKING CONCRETE PAVEMENT	LF	920. 000	920.000	
0990	650. 8500	CONSTRUCTION STAKING ELECTRICAL	LS	1. 000	1. 000	
1000	650. 9910	INSTALLATIONS (PROJECT) 01. 7255-05-72 CONSTRUCTION STAKING SUPPLEMENTAL	LS	1. 000	1. 000	
		CONTROL (PROJECT) 01. 7255-05-72				

DATE 06 LINE	MAR14	EST	ГІМАТ	E OF QUAN	T I T I E S 7255-05-72
NUMBER 1010	I TEM 652. 0225	ITEM DESCRIPTION CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	UNI T LF	TOTAL 2, 219. 000	QUANTI TY 2, 219. 000
1020 1030 1040 1050	653. 0145 653. 0905 655. 0610 655. 0620	PULL BOXES STEEL 24X48-INCH REMOVING PULL BOXES ELECTRICAL WIRE LIGHTING 12 AWG ELECTRICAL WIRE LIGHTING 8 AWG	EACH EACH LF LF	3. 000 5. 000 1, 845. 000 2, 485. 000	3. 000 5. 000 1, 845. 000 2, 485. 000
1060 1070 1080 1090 1100	655. 0625 690. 0150 690. 0250 715. 0415 ASP. 1TOA	ELECTRICAL WIRE LIGHTING 6 AWG SAWING ASPHALT SAWING CONCRETE INCENTIVE STRENGTH CONCRETE PAVEMENT ON-THE-JOB TRAINING APPRENTICE AT \$5. 00/HR	LF LF LF DOL HRS	4, 970. 000 100. 000 2, 142. 000 585. 000 1, 200. 000	4, 970. 000 100. 000 2, 142. 000 585. 000 1, 200. 000
1110 1120 1130 1140 1150	ASP. 1T0G SPV. 0060 SPV. 0060 SPV. 0060 SPV. 0060	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR SPECIAL 01. ADJUSTING WATER VALVE SPECIAL 02. ADJUSTING CURB STOP SPECIAL 03. REMOVING CURB STOP SPECIAL 04. SALVAGE LIGHTING UNIT	HRS EACH EACH EACH EACH	300. 000 2. 000 2. 000 2. 000 6. 000	300. 000 2. 000 2. 000 2. 000 6. 000
1160 1170 1180	SPV. 0060 SPV. 0060 SPV. 0060	SPECIAL 05. LIGHTING UNIT TYPE SPECIAL SPECIAL 06. CONCRETE BASE TYPE SPECIAL SPECIAL 07. CUT INTO AND CONNECT TO EXISTING WATER MAIN	EACH EACH EACH	15. 000 15. 000 2. 000	15. 000 15. 000 2. 000
1190 1200	SPV. 0060 SPV. 0060	SPECIAL 08. STEEL PLATE INLET COVER SPECIAL 09. FIRE HYDRANT	EACH EACH	1. 000 1. 000	1. 000 1. 000
1210 1220 1230	SPV. 0060 SPV. 0085 SPV. 0090	SPECIAL 10. GATE VALVE AND BOX 6-INCH SPECIAL 01. WATER MAIN FITTINGS SPECIAL 01. CONCRETE CURB & GUTTER CURE AND SEAL TREATMENT	EACH LB LF	4. 000 176. 000 4, 916. 000	4. 000 176. 000 4, 916. 000
1240 1250	SPV. 0090 SPV. 0090	SPECIAL 02. CONCRETE BARRIER SINGLE-FACED (WITH ANCHORAGE) SPECIAL SPECIAL 03. CONCRETE CURB & GUTTER 30-INCH TYPE A SPECIAL	LF LF	66. 000 42. 000	66. 000 42. 000
1260	SPV. 0090	SPECIAL 04. CONCRETE GUTTER 36-INCH TYPE A SPECIAL	LF	49. 000	49. 000
1270 1280	SPV. 0090 SPV. 0105	SPECIAL 05. WATER MAIN 6-INCH SPECIAL 01. CONSTRUCTION STAKING CONCRETE PAVEMENT JOINT LAYOUT	LF LS	248. 000 1. 000	248. 000 1. 000
1290	SPV. 0165	SPECIAL 01. STAMPED PATTERN COLORED CONCRETE SIDEWALK 6-INCH	SF	11, 326. 000	11, 326. 000
1300	SPV. 0165	SPECIAL 02. CONCRETE SIDEWALK CURE AND SEAL TREATMENT	SF	21, 031. 000	21, 031. 000
1310	SPV. 0180	SPECIAL 01. CONCRETE PAVEMENT 10-INCH SPECIAL	SY	6, 556. 000	6, 556. 000
1320	SPV. 0180	SPECIAL 02. GUARDRAIL MOW STRIP CONCRETE SPECIAL	SY	130. 000	130. 000

2

ST	ORM SEWER	REMOVALS	
STATION - STATION	LOCATION	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (15-INCH) LF
STH 124/BRIDGE ST			
CATEGORY 0010			
202+59	14.7' LT	1	
202+59 - 202+83	LT & RT		85
202+60	40.8' RT	1.	
202+69	24.5' LT	1	
203+20	135.5' RT	1	20
203+41 - 203+52	LT		45
203+52	12.5' LT	1	
208+43 - 208+84	LT		77
208+84	16.6' RT	1	
210+15	64.2' LT	1	
210+15 - 210+23	LT		17
SUBTOTAL CATEGOR	RY 0010	7	244
	TOTALS	7	244

REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SY	REMARKS	STAGE
STH 124/BRIDGE ST				
CATEGORY 0010				
201+37 - 202+73	LT	185	EXISTING CORRUGATED CONCRETE MEDIANS	STAGE 3
203+45 - 203+84	LT	39	EXISTING CORRUGATED CONCRETE MEDIANS	STAGE 3
207+15 - 207+34	LT	13	EXISTING CORRUGATED CONCRETE MEDIANS	STAGE 3
207+15 - 209+37	RT	187	SIDEWALK	STAGE 2
208+44 - 209+71	LT	89	SIDEWALK	STAGE 3
SUBTOTAL CATEGORY	0010	513		
CATEGORY 0020				
200+05 - 202+75	RT	242	SIDEWALK	STAGE 2
203+32 - 204+00	RT	69	SIDEWALK	STAGE 2
205+04 - 207+15	LT	284	EXISTING CORRUGATED CONCRETE MEDIANS	STAGE 3
205+17 - 207+15	RT	176	SIDEWALK	STAGE 2
207+37 - 208+44	LT	136	SIDEWALK	STAGE 3
209+71 - 210+54	LT	80	SIDEWALK	STAGE 3
SUBTOTAL CATEGORY	0020	987		
	TOTAL	1500		

REMOVING PAVEMENT

STATION - STATION	LOCATION	204.0100* SY	REMARKS	STAGE
STH 124/BRIDGE ST				
CATEGORY 0010				
200+05.61 - 203+85	LT	497	EXISTING MAINLINE CONCRETE PAVEMENT	STAGE 2
205+08 - 210+50.68	LT	1328	EXISTING MAINLINE CONCRETE PAVEMENT	STAGE 2 & 4
SUBTOTAL CATEGOR	RY 0010	1825		
CATEGORY 0020				
200+05.61 - 203+85	RT	1326	EXISTING MAINLINE CONCRETE PAVEMENT	STAGE 2
COURT STREET	RT	603	EXISTING MAINLINE CONCRETE PAVEMENT	STAGE 2
200+05.61 - 203+85	LT	828	EXISTING MAINLINE CONCRETE PAVEMENT	STAGE 3
205+08 - 210+50.68	RT	794	EXISTING MAINLINE CONCRETE PAVEMENT	STAGE 2
205+08 - 210+50.69	LT	1474	EXISTING MAINLINE CONCRETE PAVEMENT	STAGE 3
SUBTOTAL CATEGOR	RY 0020	5025		
	TOTAL	6850		

^{*} CONCRETE PAVEMENT ADJACENT TO CURB & GUTTER INCLUDES CURB & GUTTER REMOVAL

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF
STH 124/BRIDGE ST		
CATEGORY 0010	1.7	100
200+18.71 -201+32.32	LT	183
SUBTOTAL CATEGORY	Y 0010	183
CATEGORY 0020		
200+71 - 201+40	LT	69
203+34 - 203+71	RT	45
205+10 - 206+77	LT	158
SUBTOTAL CATEGORY	Y 0020	272
	TOTAL	455

REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	204.0110 SY
STH 124/BRIDGE ST		
CATEGORY 0010 208+45 - 210+50.68	RT	359
SUBTOTAL CATEGOR	359	
CATEGORY 0020 TEMPORARY CROSS	SOVER	849
SUBTOTAL CATEGOR	RY 0020	849
	TOTAL	1208

	RE	MOVING CUR	B & GUTTER		
STATION - STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF	204.0160 REMOVING LIP CURB LF	REMARKS	STAGE
STH 124/BRIDGE ST					
CATEGORY 0010					
203+31 - 203+44	LT	13		MAINLINE	STAGE 1
208+40 - 210+50	RT		215	MAINLINE	STAGE 2
SUBTOTAL CATEGOR	RY 0010	13	215		
CATEGORY 0020					
182+56 - 188+59	LT	603		TEMP CROSSOVER	STAGE 1
182+61 - 188+35	LT	574		TEMP CROSSOVER	STAGE 1
203+23	RT	33		COURT STREET	STAGE 2
SUBTOTAL CATEGOR	RY 0020	1210	0		
	TOTALS	1223	215		

			EXCAVATI	ON COMMON	Ī	
STATION - STATION	* 205.0100 EXCAVATION COMMON CY	AIR FILL CY	1.3% EXPAND. FILL CY	WASTE CY	208.0100 BORROW CY	REMARKS
STH 124/BRIDGE ST CATGORY 0010	1050			1050	7.0	
200+05 - 210+50	1350	30	40	1350	40	
SUBTOTAL CATEGORY 0010 CATEGORY 0020	1350	30	40	1350	40	
200+05 - 210+50	2650	85	110	2650	110	
TEMPORARY CROSSOVER	425	250	330	425	330	TEMPORARY CROSSOVER
SUBTOTAL CATEGORY 0020	3075	335	440	3075	440	
TOTALS	4425	365	480	4425	480	

^{*}PAY PLAN QUANTITY, QUANTITY INCLUDES CONCRETE PAVEMENT AREA NOTE: EXPANSION FACTOR = 1.3

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY OOIO, UNLESS OTHERWISE NOTED

PROJECT NO: 7255-05-72

HWY: STH 124 (S. BRIDGE ST)

COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

PLOT SCALE : ########

SHEET

WISDOT/CADDS SHEET 42

PLOT DATE: 1/30/2014 4:14 PM

PLOT BY : JUSTIN SHAVLIK PLOT NAME :

		FINISHIN	G ROADWAY (C. Carlotte					į	ASPHALTIC S	SURFACE			
	S	STH 124/BRID		213.0100 TION EACH			1	STATION - STATION	LOCATION		465.0125 TEMPORARY TON	REMARKS		
			+50.68 LT &					STH 124/BRIDGE ST CATEGORY 0020 TEMPORARY CROSS 203+03 - 203+20	SOVER RT	14	240 TE	EMPORARY CROSSOVER COURT STREET		
			0020 +50.68 LT & ATEGORY 0020 TOT.	0 0.5				SUBTOTAL CATEGO		14	240			
		BASE A	GGREGATE D	DENSE										
STATION - STATION	LOCATION		305.0120 1 1/4-INCH TON	REMARKS	STAGE									
STH 124/BRIDGE ST CATEGORY 0010 200+05 - 203+10 200+05 - 203+12 203+28 - 203+85 203+29 - 203+85 202+83 - 203+78 202+84 - 203+63 202+96 - 203+38 207+15 - 208+87 207+15 - 208+90 207+15 - 210+50 207+15 - 208+90	LT RT RT		329 88 17 54 19 13 17 101 54 299	MEDIAN ISLAND CURB & GUTTER CURB & GUTTER MEDIAN ISLAND MAINLINE CURB & GUTTER DRIVEWAY MEDIAN ISLAND CURB & GUTTER MAINLINE MAINLINE CURB & GUTTER	STAGE 2 & 3 STAGE 2 & 3 STAGE 2 STAGE 2 STAGE 3 STAGE 3 STAGE 3 STAGE 3 & 4 STAGE 2 & 4 STAGE 2 & 4	STATION-STATION LOCATIO	416.0610 DRILLED TIE BARS N EACH	416.0620 DRILLED DOWEL BARS EACH	CONCRE 601.0409 30-INCH TYPE A LF	601.041 30-INC TYPE I LF	11 SPV.0090.0 H 30-INCH TYF	PE GUTTER 36-INCH	REMARKS	STAGE
207+15 - 208+90 208+40 - 209+75 208+40 - 208+90 208+50 - 209+79 208+90 - 209+10 208+93 - 209+07 209+10 - 209+31 209+13 - 209+30 209+30 - 209+75 209+30 - 210+50 209+33 - 210+50 UNDISTRIBUTED SUBTOTAL CATEGORY 0010	LT LT RT LT LT RT RT RT LT	10 10	92 19 92 12 21 12 21 18 39 37 66 206	DRIVEWAY CURB & GUTTER DRIVEWAY CURB & GUTTER SPLITTER ISLAND CURB & GUTTER SPLITTER ISLAND CURB & GUTTER CURB & GUTTER CURB & GUTTER CURB & GUTTER MEDIAN ISLAND UNDISTRIBUTED	STAGE 2 STAGE 3 STAGE 2 STAGE 3 STAGE 3 STAGE 2 STAGE 2 STAGE 2 STAGE 4 STAGE 4	STH 124/BRIDGE ST CATEGORY 0010 200+05 - 203+12 202+84 - 203+38 LT 203+38 - 203+47 LT 203+47 - 203+63 LT 203+28 - 203+85 LT 207+15 - 208+90 LT 207+15 - 208+90 LT 208+93 - 209+07 LT 209+31 - 209+30 RT 209+30 - 209+75 LT 209+31 - 210+50 RT		31 24 21	570 54 110 350 196 69 70 70 66 240		9	16	MEDIAN ISLAND DRIVEWAY* MAINLINE MEDIAN ISLAND MEDIAN ISLAND MAINLINE & DRIVEWAY SPLITTER ISLAND SPLITTER ISLAND DRIVEWAY MEDIAN ISLAND MAINLINE & DRIVEWAY MEDIAN ISLAND	STAGE 2 & 3 STAGE 3 STAGE 3 STAGE 2 STAGE 2 STAGE 2 STAGE 3 STAGE 3 STAGE 3 STAGE 3 STAGE 3
CATEGORY 0020 200+05 - 200+21	RT		5	CONCRETE APPROACH SLAB	STAGE 2	209+30 - 210+50 RT SUBTOTAL CATEGORY 0010	0	76	141 1936	0	9	16	MAINLINE & DRIVEWAY	STAGE 2
200+05 - 202+84 200+21 - 203+70 200+59 - 200+74 200+59 - 202+81 200+74 - 203+48 202+47 - 203+37 203+03 - 203+20 203+23 - 203+97 203+48 - 203+74 203+70 - 203+96 204+94 - 208+40 204+95 - 205+20 205+04 - 207+15 205+09 - 207+15 205+09 - 205+32	RT RT LT LT LT RT RT LT LT LT LT LT LT		57 142 5 37 81 121 43 33 6 6 55 7 32 246 31	CURB & GUTTER MAINLINE CONCRETE APPROACH SLAB CURB & GUTTER MAINLINE COURT STREET MAINLINE COURT STREET ASPHALT CURB & GUTTER CONCRETE APPROACH SLAB CONCRETE APPROACH SLAB CURB & GUTTER CONCRETE APPROACH SLAB CURB & GUTTER CONCRETE APPROACH SLAB CURB & GUTTER MEDIAN ISLAND CURB & GUTTER CONCRETE APPROACH SLAB	STAGE 2 STAGE 2 STAGE 3 STAGE 3 STAGE 2 STAGE 2 STAGE 2 STAGE 3 STAGE 3 STAGE 3 STAGE 3 STAGE 3 STAGE 2 STAGE 2	CATEGORY 0020 182+56 - 188+59	200 195	25 23	603 574 339 225 80 335 205 205 34 171 75	42	33	33	TEMP CROSSOVER* TEMP CROSSOVER* MAINLINE MAINLINE COURT STREET MAINLINE MAINLINE MAINLINE MEDIAN ISLAND MEDIAN ISLAND MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE	STAGE 1 STAGE 2 STAGE 2 STAGE 2 STAGE 2 STAGE 2 STAGE 3 STAGE 3 STAGE 2 STAGE 4 STAGE 2 STAGE 2
205+16 - 207+15 205+20 - 210+50	RT		34 156	CURB & GUTTER MAINLINE	STAGE 2 STAGE 3	SUBTOTAL CATEGORY 0020	395	48	2846	42	33	33		
205+32 - 207+15 209+75 - 210+53 UNDISTRIBUTED	LT & RT LT LT & RT	10	79 13	MAINLINE CURB & GUTTER UNDISTRIBUTED	STAGE 2 STAGE 3	*NO CURB HEAD AT XCEL ENERGY D		124 TION AND TEMPORA	4782 ARY CROSSO	42 VER	42	49		
TEMPORARY CROSSOVER SUBTOTAL CATEGORY 0020		10	472 1668	TEMPORARY CROSSOVER	STAGE 1									
	TOTALS	20	3516										QUANTITIES ON THIS SHEET 1010, UNLESS OTHERWISE NO	

				2	ONCRETE PA	VEMENT													
	STATION - STATION	LOCATION	415.0210 CONCRETE PAVEMENT GAPS EACH	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	415.1100 CONCRETE PAVEMENT HES 10-INCH SY	416.0170 CONCRETE DRIVEWAY 7-INCH SY	416.0270 CONCRETE DRIVEWAY HES 7-INCH SY	SPV.0180.01 CONCRETE PAVEMENT 10-INCH SPECIAL SY	REMARKS	STAGE	CON	CRETE SIDE	WALK 602.0405 44NCH	602.0415 6-INCH		CURB RAMP DETE	ECTABLE WAR	RNING FIELD	YELLOW
	STH 124/BRIDGE ST										STATION - STATION	LOCATION	SF	SF	STAGE	OTATION OTATION	LOCATION	602.0505	051110110
3	CATEGORY 0010 202+83 - 203+48 203+00 - 203+41 203+48 - 203+78 203+70 - 203+96 204+95 - 205+20 205+09 - 205+32 207+15 - 210+50 207+15 - 210+50 208+40 - 209+75 208+50 - 209+79	LT LT LT RT LT LT & RT LT LT RT		93 55 65 62	50	30	20	78 898 500 275 275	MAINLINE DRIVEWAY MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE DRIVEWAY DRIVEWAY	STAGE 2 & 3 STAGE 3 STAGE 2 STAGE 2 STAGE 2 STAGE 2 & 4 STAGE 2 & 4 STAGE 2 & 4 STAGE 3 STAGE 2	STH 124/BRIDGE ST CATEGORY 0010 207+15 - 208+73 208+93 - 209+08 209+12 - 209+26 209+48 - 210+50 UNDISTRIBUTED SUBTOTAL CATEGORY 0010 CATEGORY 0020	RT LT RT RT	1153 0 0 877 200	77 85 85 113	STAGE 2 STAGE 3 STAGE 2 STAGE 2	STATION - STATION STH 124/BRIDGE ST CATEGORY 0010 208+66 209+02 209+18 209+56 SUBTOTAL CATEGORY 0010 CATEGORY 0020	RT LT RT RT	16 32 32 16 96	SIDEWALK SPLITTER ISLAI SPLITTER ISLAI SIDEWALK
	SUBTOTAL CATEGORY	7 0010	0	275	50	30	20	2026			200+05 - 202+76 203+27 - 204+00	RT RT	2080 571	154 737	STAGE 2 STAGE 2	202+70 203+40	RT RT	16 16	SIDEWALK
	CATEGORY 0020 200+21 - 203+70 200+74 - 203+48	RT LT	1		40			1361 690	MAINLINE MAINLINE	STAGE 2 STAGE 3	205+17 - 207+15 207+36 - 208+70 209+46 - 210+54	RT LT LT	1031 950 349	81 77	STAGE 2 STAGE 3 STAGE 3	208+50 209+35 SUBTOTAL CATEGORY 0020	LT	16 16 16	SIDEWALK SIDEWALK
	202+47 - 203+37 205+20 - 210+50 205+32 - 207+15	RT LT LT & RT						362 1402 715	COURT STREET MAINLINE MAINLINE	STAGE 2 STAGE 3 & 4 STAGE 2	SUBTOTAL CATEGORY 0020	TOTALS	7211	1049		Section of the sectio	TOTAL	160	
	SUBTOTAL CATEGORY	Y 0020	1	0	40	0	0	4530			*FOR SIDEWALK WITH DETEC	TABLE WARNI	NG FIELD						
		TOTALS	1	275	90	30	20	6556											

STORM	SEWER	STRUCTURE	ITEMS

STRUCTURE NUMBER	STATION	LOCATION	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.1230 CATCH BASINS 2X3-FT EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH		628.7015 OTECTION TYPE C EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
STH 124/BRID CATEGORY 0												
1A	202+42	37.5' RT				1	1			1	1	1
1B	202+82	1.5' LT				1	1			1	1	1
	202+83	56.3' LT		1						1	1	1
1D	203+06	28.1'LT				1	1			1	1	1
1C	203+08	22.8' LT				1	1			1	1	1
3	203+15	135.5' RT				1	1			1	1	1
1	203+41	55.1'LT	1							1	1	1
1E	203+52	15.1'LT				1	1			1	1	1
	205+41	56.2' LT							1	1	1	1
	205+42	25.5' LT							1	1	1	1
	205+51	26.5' RT							1	1	1	1
	207+19	21.0' RT							1	1	1	1
	207+21	14.1'LT							1	1	1	1
	207+26	50.4' RT							1	1	1	1
2	208+43	48.3' LT		1						1	1	1
2A 2C	208+43	25.5' RT				1	1			1	1.	1
2C	208+83	21.5' LT				1	1			1	1	1
2B	208+84	16.3' LT				1	1			1	1	1
	210+23	48.4' LT		1						1	1	1
	210+35	4.1' RT			1			1		1	1	1
SUBTOTAL CA	ATEGORY 0	010	1	3	1	9	9	1	6	20	20	20
	TOTALS		1	3	1	9	9	1	6	20	20	20

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED

HWY: STH 124 (S. BRIDGE ST)

MISCELLANEOUS QUANTITIES

SHEET

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\030201_MQ.DWG

PROJECT NO: 7255-05-72

PLOT DATE: 1/30/2014 4:14 PM

COUNTY: CHIPPEWA

PLOT SCALE : ########

WISDOT/CADDS SHEET 42

Q

STOPM	SEWER	DIDE	ITEMS
3 I U KIVI	SEVVER		III EIVI 3

STRUCTURE NUMBER	STATION	LOCATION	PIPE	204.0280 SEALING PIPES EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH	607.0600.S.01 STORM SE 12-INCH LF	607.0600.S.02 WER PIPE 15-INCH LF	STAGE
STH 124/BRIDGE								
CATEGORY 0010		12012	2.1			4.2		200 22 2
1A	202+42	37.5' RT	P-1			56		STAGE 2
3	203+15	135.5' RT			2	20		STAGE 2
1B	202+82	1.5' LT	P-2				34	STAGE 3
1B 1D	203+06	28.1' LT	P-4			6		STAGE 3
1C	203+08	22.8' LT	P-3				47	STAGE 3
1E	203+52	15.1'LT	P-5			42		STAGE 3
1E 2A 2B	208+43	25.5' RT	P-6			42 59		STAGE 2 & 4
2B	208+84	16.3' LT	P-7			6		STAGE 4
2C	208+83	21.3' LT	P-8			49		STAGE 3
UNDISTRIBUTED	717.77		4.47	4		2.5		0.000
SUBTOTAL CATE	GORY 0010			4	2	238	81	
			TOTALS	4	2	238	81	

BEAM GUARD

STATION - STATION	LOCATION	614.0200 STEEL THRIE BEAM STRUCTURE APPROACH LF	614.0220 STEEL THRIE BEAM BULLNOSE TERMINAL EACH	614.0230 STEEL THRIE BEAM LF	SPV.0180.02 GUARDRAIL MOW STRIP CONCRETE SPECIAL SY	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS TERMINAI EAT EACH	
STH 124/BRIDGE ST								
CATEGORY 0010								
200+15 - 201+40	LT			20.00	80			NB
200+16 - 200+94				78.50				NB
200+70 - 201+40	LT	1116			50			SB
200+69 - 200+84	LT	14.40		40.50				SB
200+84 - 200+96	LT		2	12.50				SB
200+94 - 200+48	LT		1					NB
SUBTOTAL CATEGORY 0010		14.40	1	91	130	0.00	0	
CATEGORY 0020								
200+69 - 201+09	LT					39.40		SB
201+09 - 201+62	LT						1	SB
205+08 - 205+50	LT					39.40		SB
205+50 - 206+06	LT						1	SB
SUBTOTAL CATEGORY 0020		0.00	0	0.00	0	78.80	2	
	TOTALS	14.40	1	91.00	130	78.80	2	=,:

MOBILIZATION	A TION
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WOBIL	ZATION	
STATION - STATION	LOCATION	619.1000 EACH
STH 124/BRIDGE ST CATEGORY 0010 205+05 - 210+50.68	LT & RT	0.5
SUBTOTAL CATEGO	RY 0010	0.5
CATEGORY 0020 205+05 - 210+50.68	LT & RT	0.5
SUBTOTAL CATEGO	RY 0020	0.5
	TOTAL	1

CONCRETE MEDIAN NO SE

STATION - STATION	LOCATION	620,0200 BLUNT SF	620.0300 SLOPED SF
STH 124/BRIDGE ST			
CATEGORY 0010			
202+90	LT	20	
203+09	LT		20
203+30	LT	20	
208+87	LT		20
208+92	LT	20	
209+07	LT		40
209+13	RT		40
209+27	RT	20	
209+30	LT		20
SUBTOTAL CATEGORY 0010		80	140
	TOTALS	80	140

TOPSOIL, MULCHING, FERTILIZER, AND SEEDING

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB
STH 124/BRIDGE ST						
CATEGORY 0010 200+05 - 210+50	LT & RT	325	325	0.25	8	8
SUBTOTAL CATEGOR	RY 0010					
CATEGORY 0020						
207+36 -210+50	RT	825	825	0.75	22	22
SUBTOTAL CATEGOR	RY 0020					
	TOTALS	1150	1150	1.0	30	30

EROSION CONTROL ITEMS

STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATION EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
STH 124/BRIDGE ST CATEGORY 0020 200+05 - 210+50 UNDISTRIBUTED	LT & RT	280 120	280 120	1	1
SUBTOTAL CATEGOR	RY 0020	400	400	1	1
	TOTALS	400	400 NOT	T: ALL ITEMS AND	1 QUANTITIES ON THIS SHEE

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED

PROJECT NO: 7255-05-72

HWY: STH 124 (S. BRIDGE ST)

COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

PLOT SCALE : ########

SHEET WISDOT/CADDS SHEET 42

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\030201_MQ.DWG

PLOT DATE : 2/28/2014 11:09 AM

PLOT BY : JUSTIN SHAVLIK PLOT NAME :

TRAFFIC CONTROL

STATION - STATION	LOCATION	643.0100 TRAFFIC CONTROL (7255-05-72) EACH	643.2000 TRAFFIC CONTROL DETOUR (7255-05-72) EACH
STH 124/BRIDGE ST			
CATEOGRY 0010 200+05 - 210+50		0.5	0.5
SUBTOTALS CATEGO	RY 0010	0.5	0.5
CATEGORY 0020 200+05 - 210+50		0.5	0.5
SUBTOTALS CATEGO	PRY 0020	0.5	0.5
	TOTALS		1

TRAFFIC CONTROL

STATION - STATION	LOCATION	614.0700 SAND BARREL ARRAYS EACH	633.1100 DELINEATORS TEMPORARY EACH	643.0300 DRUMS DAY	643.0410 BARRICADES TYPE II DAY	643.0420 BARRICADES TYPE III DAY	643.0500 FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 FLEXIBLE TUBULAR S MARKER BASES EACH	643.0705 WARNING LIGHTS TYPE A DAY	643.0715 WARNING LIGHTS TYPE C DAY	643.0900 SIGNS DAY	643.0920 COVERING SIGNS TYPE II EACH	643.3000 DETOUR SIGNS DAY	REMARKS
STH 124/BRIDGE ST														
CATEGORY 0010 200+05 - 210+50	LT & RT			332		16			32	112	168			STAGE 1
200+05 - 210+50	LT & RT	0.5	5	1587	368	782	54	54	1656	621	1265	3	690	STAGE 2
200+05 - 210+50	LT & RT	0.5	5	2016	84	336	52	52	756	462	1092	1	252	STAGE 3
200+05 - 210+50	LT & RT	0.0	10	756	٠,	35		-	70	189	259		202	STAGE 4
UNDISTRIBUTED							16	16						
SUBTOTAL CATEGORY	0010	1	20	4691	452	1169	122	122	2514	1384	2784	4	942	
CATEGORY 0020														
200+05 - 210+50	LT & RT			332		16			32	112	168			STAGE 1
200+05 - 210+50	LT & RT	0.5	5	1587	368	782	54	54	1656	621	1265	3	690	STAGE 2
200+05 - 210+50	LT & RT	0.5	5	2016	84	336	52	52	756	462	1092	1	252	STAGE 3
200+05 - 210+50	LT & RT		20	756		35	1.5	122	70	189	259			STAGE 4
UNDISTRIBUTED			10				16	16						
SUBTOTAL CATEGORY	0020	1	40	4691	452	1169	122	122	2514	1384	2784	4	942	
	TOTALS	2	60	9382	904	2338	244	244	5028	2768	5568	8	1884	-

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED

HWY: STH 124 (S. BRIDGE ST) COUNTY: CHIPPEWA PROJECT NO: 7255-05-72 MISCELLANEOUS QUANTITIES SHEET PLOT BY : JUSTIN SHAVLIK PLOT NAME :

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\030201_MQ.DWG

PLOT DATE: 1/30/2014 4:14 PM

PLOT SCALE : ########

WISDOT/CADDS SHEET 42

SIGNING ITEMS

STH 124 BRIDGE ST CATEGORY 0010 1-2 W5-52L BRIDGE HASH MARKS 12 X 36 3 1 1 1 1 1-4 R4-7 KEEP RIGHT 24 X 30 1 1 1 1-5 R3-4 NO U-TURN 24 X 24 4.00 1 1 1-7 R4-7 KEEP RIGHT 24 X 30 5.00 1 1 1-8 R3-2 NO LEFT TURN 24 X 24 4.00 1 1 1-17 R4-7 KEEP RIGHT 24 X 30 5.00 1 1 1-18 R3-4 NO U-TURN 24 X 24 4.00 1 1 1-19 R5-1 DO NOT ENTER 30 X 30 6.25 1 1 1-19 R5-1 DO NOT ENTER 30 X 30 6.25 1 1 1-14 R5-1 W5-52R BRIDGE HASH MARKS 12 X 38 5.00 1 1 SUBTOTAL CATEGORY 0010 AT 1 STEP RIGHT 24 X 30 5.00 1 1 AT 1 STEP RIGHT 24 X 30 5.00 1 1 AT 1 STEP RIGHT 24 X 30 5.00 1 1 AT 1-14 R5-1	REPLACE REMOVE INSTALL INSTALL
CATEGORY 0010 1-2	REMOVE
1-4 R4-7 KEEP RICHT	REMOVE
1-5 R3-4 NO U-TURN 24 X 24 400 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INSTALL
1-7 R4-7 KEEP RIGHT 24 X 30 5 00 1 1 1 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	INSTALL
1-8	
1-26	INSTALL INSTALL
1-29	REMOVE
1-31	INSTALL REMOVE
1-33 R4-7 KEEP RIGHT 24 X 30 5.00 1 1 1 1-34 R5-1 DONOTENTER 30 X 30 6.25 1 1 1 1-35 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INSTALL
1.34 R5-1 DONOTENTER 30 X 30 6.25 1	REPLACE
1 35 R6-2L ONE WAY 24 X 30 5 00 1 1 1 1 MOV 14-10 R6-2L ONE WAY 24 X 30 5 00 1 1 1 1 MOV 14-10 R6-2L ONE WAY 24 X 30 5 00 1 1 1 1 MOV 14-11 R5-1 DO NOT ENTER 30 X 30 6 25 1 1 1 MOV 14-14 R3-1 STOP 30 X 30 8 7.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INSTALL INSTALL
1-40 R6-2L ONE WAY 24 X 30 5.00 1-41 R6-1 DONOT ENTER 30 X 30 6.25 1-42 R3-4 NO U TURN 24 X 24 4.00 1-43 R1-1 STOP 30 X 30 5.18 1-44 R3-50R LANE CONT. SYMBOL RT 30 X 36 7.50 1-45 R3-4 NO U TURN 24 X 24 4.00 1-46 R3-4 NO U TURN 24 X 24 4.00 1-47 R3-50R LANE CONT. SYMBOL RT 30 X 36 7.50 1-46 R3-4 NO U TURN 24 X 24 4.00 1-48 R3-4 NO U TURN 24 X 24 4.00 1-49 R3-4 SPEED LIMIT 35 24 X 30 5.00 1-49 R5-1 SPEED LIMIT 35 24 X 30 5.00 1-40 R6-2L ONE WAY 24 X 30 5.00 1-40 R6-1L ONE WAY	INSTALL
141 R5-1 DONOTENTER 30 X 30 6.25 142 R3-4 NOU TURN 24 X 24 4 400 143 R1-1 STOP 30 X 30 5.18 1-44 R3-50R LANE CONT. SYMBOL RT 30 X 36 7.50 1-45 R3-4 NOU TURN 24 X 24 4.00 1 1 SUBTOTAL CATEGORY 0010	/E & REINSTALL INSTALL
142 R3-4 NO UTURN 24 X 24 4 400 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/E & REINSTALL
1.44 R3-50R LANE CONT. SYMBOL RT 30 X 36 7.50 1 1.45 R3-4 NO U TURN 24 X 24 4.00 1 SUBTOTAL CATEGORY 0010 82.86 3 1 2 2 7 4 2 5 3 CATEGORY 0020 1.1 W5-52R BRIDGE HASH MARKS 12 X 36 3 1 1 1 1 1 1.3 R2-1 SPEED LIMIT 35 24 X 30 5.00 1 1 1 1 1 1.10 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1 1.11 R5-1A WRONG WAY 36 X 24 6.00 1 1 1 1 1 1.12 W5-52R BRIDGE HASH MARKS 12 X 36 3 1 1 1 1 1 1.14 R1-1 STOP 1.15 R2-1 SPEED LIMIT 25 24 X 30 5.00 1 1 1 1 1 1.16 R5-1A WRONG WAY 36 X 24 6.00 1 1 1 1 1 1.17 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1 1.18 R5-1 SPEED LIMIT 25 24 X 30 5.00 1 1 1 1 1.19 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1 1.11 R5-1A WRONG WAY 36 X 24 6.00 1 1 1 1 1 1.12 W5-52R BRIDGE HASH MARKS 12 X 36 3 1 1 1 1 1 1.14 R1-1 STOP 1.15 R2-1 SPEED LIMIT 25 24 X 30 5.00 1 1 1 1 1 1.16 R5-1A WRONG WAY 36 X 24 6.00 1 1 1 1 1 1.17 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1 1.18 R5-1 DO NOT ENTER 30 X 30 6.25 1 1 1 1.19 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1.19 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1.19 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1.19 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1.19 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1.20 R5-1 DO NOT ENTER 30 X 30 6.25 1 1 1.21 R3-7R RIGHT LANE MUST TURN RIGHT 30 X 30 6.25 1 1	INSTALL
145 R3-4 NO U TURN 24 X 24 4.00 1 SUBTOTAL CATEGORY 0010 82.86 3 1 2 2 7 4 2 5 3 CATEGORY 0020 1-1 W5-52R BRIDGE HASH MARKS 12 X 36 3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INSTALL
CATEGORY 0020 1-1 W5-52R BRIDGE HASH MARKS 12 X 36 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INSTALL
1-1	
1-3 R2-1 SPEED LIMIT 35 24 X 30 5.00 1 1-9 R5-1 DO NOT ENTER 30 X 30 6.25 1 1 1 1 1-10 R6-2L ONE WAY 24 X 30 5.00 1 1-11 R5-1A WRONG WAY 36 X 24 6.00 1 1 1 1-12 W5-52R BRIDGE HASH MARKS 12 X 36 3 1 1 1 1-13 R5-3 NO MOTOR VEHICLES 24 X 24 4.00 1 1 1 1 1-14 R1-1 STOP 1-15 R2-1 SPEED LIMIT 25 24 X 30 5.00 1 1-16 R5-1A WRONG WAY 36 X 24 6.00 1 1 1 1 1-17 R6-2L ONE WAY 24 X 30 1 1 1 1 1-18 R5-1 DO NOT ENTER 30 X 30 1 1 1 1 1-19 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1-19 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1-20 R5-1 DO NOT ENTER 30 X 30 6.25 1 1 1-21 R3-7R RIGHT LANE MUST TURN RIGHT 30 X 30 1 1 1	
1-9	REPLACE
1-10 R6-2L ONE WAY 24 X 30 5.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	REPLACE REPLACE
1-12	REPLACE
1-13 R5-3 NO MOTOR VEHICLES 24 X 24 4.00 1 1 1 1-14 R1-1 STOP EXIST 1-15 R2-1 SPEED LIMIT 25 24 X 30 5.00 1 1-16 R5-1A WRONG WAY 36 X 24 6.00 1 1 1 1-17 R6-2L ONE WAY 24 X 30 1 1 1 1-18 R5-1 DO NOT ENTER 30 X 30 1 1 1-19 R6-2L ONE WAY 24 X 30 5.00 1 1-20 R5-1 DO NOT ENTER 30 X 30 6.25 1 1-21 R3-7R RIGHT LANE MUST TURN RIGHT 30 X 30 1 1	REPLACE
1-14	REPLACE REPLACE
1-16 R5-1A WRONG WAY 36 X 24 6.00 1 1 1 1 1-17 R6-2L ONE WAY 24 X 30 1 1 1 1-18 R5-1 DO NOT ENTER 30 X 30 1 1-19 R6-2L ONE WAY 24 X 30 5.00 1 1-20 R5-1 DO NOT ENTER 30 X 30 6.25 1 1-21 R3-7R RIGHT LANE MUST TURN RIGHT 30 X 30 1 1	TING TO REMAIN
1-17 R6-2L ONE WAY 24 X 30 1 1 1 1-18 R5-1 DO NOT ENTER 30 X 30 1 1-19 R6-2L ONE WAY 24 X 30 5.00 1 1-20 R5-1 DO NOT ENTER 30 X 30 6.25 1 1-21 R3-7R RIGHT LANE MUST TURN RIGHT 30 X 30 1 1	INSTALL REPLACE
1-18 R5-1 DO NOT ENTER 30 X 30 1 1 1-19 R6-2L ONE WAY 24 X 30 5.00 1 1-20 R5-1 DO NOT ENTER 30 X 30 6.25 1 1-21 R3-7R RIGHT LANE MUST TURN RIGHT 30 X 30 1 1 1	REMOVE
1-20 R5-1 DO NOT ENTER 30 X 30 6.25 1 1-21 R3-7R RIGHT LANE MUST TURN RIGHT 30 X 30 1 1 1	REMOVE
1-21 R3-7R RIGHT LANE MUST TURN RIGHT 30 X 30 1 1 1	INSTALL INSTALL
	REMOVE
	REMOVE
1-23 R1-1 STOP 30 X 30 5.18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	REPLACE REMOVE
1-24 R3-50R LANE CONT. SYMBOL RT 30 X 36 7.50	INSTALL
1-25 R2-1 SPEED LIMIT 25 24 X 30 1 1 1	REMOVE REINSTALL ON PO
1-30 W11-2 PEDESTRIAN CROSSING 30 X 30	REMOVE
EAST STH 29 SOUTH STH 124	OVE & REINSTALL
ARROW 1-38 W2-6 CHASING ARROWS 30 X 30 W13-1 15 MPH 18 X 18 EXIST	TING TO REMAIN
R5-1A WRONG WAY 36 X 24 6.00	INSTALL
E6-54R ROUNDABOUT NAVIGATION SIGN 96 X 78 D9-2 HOSPITAL 24 X 24 EXIST	TING TO REMAIN S-09-0033 TING TO REMAIN
MB6-1 ARROW 21 X 21 1-46 R7-53D NO PARKING ON THIS SIDE 18 X 24 3.00 1 1-47 R5-1A WRONG WAY 36 X 24 6.00 1	TING TO REMAIN INSTALL INSTALL
SUBTOTAL CATEGORY 0020 76.18 6 2 6 3 2 2 2 16 10	
TOTALS 159.04 9 3 8 5 9 6 4 21 13	

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED

SHEET

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\030201_MQ.DWG

PROJECT NO: 7255-05-72

HWY: STH 124 (S. BRIDGE ST)

PLOT DATE: 1/30/2014 4:14 PM

COUNTY: CHIPPEWA

PLOT BY : JUSTIN SHAVLIK PLOT NAME :

MISCELLANEOUS QUANTITIES

PLOT SCALE : ########

WISDOT/CADDS SHEET 42

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STATION - STATION LOCATION	646.0106 EPOXY 4-INCH LF	646.0126 EPOXY 84NCH LF	646.0600 REMOVING PAVEMENT MARKINGS LF	647.0166 ARROWS EPOXY TYPE 2 EACH	647.0356 WORDS EPOXY EACH	647.0456 CURB EPOXY LF	647.0566 STOP LINE EPOXY 184NCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0766 CROSSWALK EPOXY 6-INCH LF	REMARKS
STH 124/BRIDGE ST CATEGORY 0010										
180+00 - 183+00	75 47		75 47							WHITE DASHED
189+20 - 191+05 200+05 - 202+83	280		47							WHITE DASHED YELLOW
200+59 - 203+09	250					10				YELLOW
203+04 - 203+10 203+10						10		1		YELLOW
203+30 - 203+36	50					13				YELLOW
203+31 - 203+88 205+75 - 207+23	57 37		37							YELLOW WHITE DASHED
207+15 - 208+40	130		31							WHITE
207+15 - 208+70 207+15 - 208+70	155	155								YELLOW WHITE
207+15 - 208+70	175	100								YELLOW
207+15 - 210+50	85									WHITE DASHED
207+36 207+83				1	1					WHITE (ONLY) WHITE (LEFT)
208+14					1					WHITE (ONLY)
208+46 208+64 - 209+52				1					125	WHITE (LEFT) WHITE
208+68 - 209+56									125	WHITE
208+78 - 208+98						40	20			WHITE
208+81 - 208+87 208+87						10		1		YELLOW
209+00 - 209+10	60									YELLOW
209+10 - 209+20 209+22 - 209+42	60						20			YELLOW WHITE
209+33							20	1		YELLOW
209+33 - 209+39	120					10				YELLOW
209+34 - 210+50 209+50 - 210+31	120	80								YELLOW
209+50 - 210+51	150									YELLOW
209+61 209+80 - 210+50	72			1						WHITE (LEFT) WHITE
209+94					1					WHITE (ONLY)
210+00 - 210+98 210+27	15		25	1						WHITE DASHED WHITE (LEFT)
210+98 - 211+72		184	184							WHITE
SUBTOTALS CATEGORY 0010	1768	419	368	4	3	43	40	3	250	
CATEGORY 0020										
200+05 - 202+44	240									WHITE
200+05 - 207+15	180									WHITE DASHED
200+59 - 208+40 200+59 - 210+50	765 245									WHITE WHITE DASHED
201+60	215			1						WHITE (RIGHT)
201+87 201+44 - 202+44		100			1					WHITE (ONLY) WHITE
202+20		100		1						WHITE (RIGHT)
202+68 - 203+29							20		110	WHITE
203+03 - 203+23 203+48 - 204+44		95					20			WHITE
203+61 - 207+15	350									YELLOW
203+64 - 207+15 203+72	400			1						WHITE WHITE (LEFT)
203+88 - 207+15	510									YELLOW
204+05					1					WHITE (ONLY)
204+38 206+80 - 207+15	35			1						WHITE (LEFT) YELLOW
206+86				1						WHITE (LEFT)
209+75 - 210+50	75									WHITE
SUBTOTALS CATEGORY 0020	2800	195	0	5	2	2	20	0	110	
TOTALS	4568	614	368	9	5	45	60	3	360	

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\030201_MQ.DWG

PROJECT NO: 7255-05-72

HWY: STH 124 (S. BRIDGE ST)

PLOT DATE : 2/28/2014 11:09 AM

COUNTY: CHIPPEWA

PLOT BY : JUSTIN SHAVLIK PLOT NAME :

MISCELLANEOUS QUANTITIES

PLOT SCALE : ########

WISDOT/CADDS SHEET 42

E: ********

SHEET

	TEMPO	RARY	PAVEMEN'	MARKI	NG		
STATION	LOCATION	4	19.0100 HNCH E YELLOW LF	REMO	9.0400 OVABLE E 4-INCH E YELLOW LF	REMARKS	
TH 124/BRIDGE ST							
CATEGORY 0010 200+05 - 210+50	LT & RT				333	STAGE 1	
200+05 - 210+50	LT & RT	415	975	130	1988	STAGE 2	
200+05 - 210+50	LT & RT	255	248	53	2548	STAGE 3	
200+05 - 210+50	LT & RT				335	STAGE 4	
SUBTOTALS CATEGO	ORY 0010		1893	5	387		
CATEGORY 0020							
200+05 - 210+50	LT & RT				333	STAGE 1	
200+05 - 210+50	LT & RT	415	975	130	1988	STAGE 2	
200+05 - 210+50	LT & RT	255	248	53	2548	STAGE 3	
200+05 - 210+50	LT & RT				335	STAGE 4	
UBTOTALS CATEGO	RY 0020		1893	5	387		
	TOTALS		3786	11	0774		
	TOTALO		0100		94.13		

STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.7000 CONCRETE PAVEMENT LF	650.8500 ELECTRICAL INSTALLATIONS (7255-05-72) LS	650.9910 SUPPLEMENTAL CONTROL (7255-05-72) LS
STH 124/BRIDGE ST					
CATEGORY 0010 200+05.46 - 210+50.68	~	414	414	0.5	0.5
SUBTOTAL CATEGORY 0010		414	414	0.5	0.5
CATEGORY 0020 200+05.46 - 210+50.68		506	506	0.5	0.5
SUBTOTAL CATEGORY 0020		506	506	0.5	0.5
	TOTALS	920	920	1	1

		SAWING		
STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF	REMARKS
STH 124/BRIDGE ST CATEGORY 0010				
201+38 - 203+83 203+03 - 303+45 205+00 - 217+15	LT LT LT & RT	35	245 25 215	STAGING DRIVEWAY STAGING
210+50	LT & RT	25	40	MAINLINE
SUBTOTAL CATEGOR	Y 0010	60	525	
CATEGORY 0020				
182+56 - 188+59	LT		603	TEMP CROSSOVER*
182+61 - 188+35	LT		574	TEMP CROSSOVER*
200+05 202+76	RT RT		10	MAINLINE SIDEWALK
203+06	RT	40	10	COURT STREET
217+15 - 210+50	LT	40	360	STAGING
210+50	ĹŤ		40	MAINLINE
SUBTOTAL CATEGOR	Y 0020	40	1617	
	TOTALS	100	2142	

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\030201_MQ.DWG

HWY: STH 124 (S. BRIDGE ST)

PROJECT NO: 7255-05-72

COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

PM PLOT BY: JUSTIN SHAVLIK PLOT NAME:

PLOT SCALE : ********

WISDOT/CADDS SHEET 42

SHEET

WATER UTILITY ITEMS

TING ADJUSTING ER CURB VE STOP	ADJUSTING ADJ WATER C VALVE	SPV.0060.03 REMOVING CURB STOP EACH	SPV.0060.07 CUT INTO AND CONNECT TO EXISTING WATER MAIN EACH	SPV.0060.08 STEEL PLATE INLET COVER EACH	SPV 0060.09 FIRE HYDRANT EACH	SPV.0060.10 GATE VALVE AND BOX 6-INCH EACH	SPV.0085.01 WATER MAIN FITTINGS LB	SPV.0090.05 WATER MAIN 6-INCH LF	REMARKS
				1					STAGE 1 & 2
							18	•	6" PLUG
								125	
						1			KEEP VALVE CLOSED
			1				80		6" X 6" CROSS
								20	202 2377
						1		33	KEEP VALVE CLOSED
							18		6" PLUG
	1								11.1.22.2
					1				
								103	
						1		,,,,,	
						1			
			1				60		6" X 6" TEE
2	1	2					-5.0		
2	2	2	2	1	1	4	176	248	
2		2	2		- 1	4	47C	249	
	2	2							

STAMPED PATTERN COLORED CONCRETE SIDEWALK 6-INCH

STATION	LOCATION	SPV.0165.01 SF	STAGE
STH 124/BRIDGE ST			
CATEGORY 0010			
200+05 - 203+10	LT	2046	STAGE 2 & 3
203+29 - 203+85	LT	547	STAGE 2
207+15 - 208+87	LT	1027	STAGE 3 & 4
207+15 - 208+63	RT	641	STAGE 2
208+93 - 209+07	LT	131	STAGE 3
209+13 - 209+30	RT	131	STAGE 2
209+33 - 210+50	LT	672	STAGE 4
209+48 - 210+50	RT	383	STAGE 2
SUBTOTAL CATEGORY 0010		5578	
CATEGORY 0020			
200+28 - 202+62	RT	1019	STAGE 2
203+32 - 203+64	RT	107	STAGE 2
205+04 - 207+15	LT	2495	STAGE 2 & 3
205+17 - 207+15	RT	804	STAGE 2
207+36 - 208+59	LT	526	STAGE 3
209+57 - 210+53	LT	393	STAGE 3
210+50 - 210+94	RT	178	STAGE 2
210+53 - 211+09	LT	226	STAGE 3
SUBTOTAL CATEGORY 0020		5748	
	TOTAL -	11326	_

CONCRETE CURB & GUTTER CURE AND SEAL TREATMENT

STATION - STATION	LOCATION	SPV.0090.01 LF	REMARKS
STH 124/BRIDGE ST			
CATEGORY 0010			
200+05 - 203+12	I.T.	570	MEDIAN ISLAND
202+84 - 203+63	LT	80	DRIVEWAY
203+28 - 203+85	LT	110	MEDIAN ISLAND
207+15 - 208+90	LT	350	MEDIAN ISLAND
207+15 - 208+90	RT	196	MAINLINE & DRIVEWAY
208+40 - 208+90	LT	69	DRIVEWAY
208+93 - 209+07	LT	70	SPLITTERISLAND
209+13 - 209+30	RT	70	SPLITTERISLAND
209+30 - 209+75	LT	66	DRIVEWAY
209+31 - 210+50	LT	240	MEDIAN ISLAND
209+30 - 210+50	RT	141	MAINLINE & DRIVEWAY
SUBTOTAL CATEGORY 0010		1962	
CATEGORY 0020			
182+56 - 188+59	LT	603	TEMP CROSSOVER
182+61 - 188+35	LT	574	TEMP CROSSOVER
200+05 - 202+84	RT	339	MAINLINE
200+59 - 202+81	LT	225	MAINLINE
203+22 - 203+96	RT	188	MAINLINE & COURT STREET
204+94 - 208+40	LT	335	MAINLINE
205+04 - 207+15	LT	205	MEDIAN ISLAND
205+09 - 207+15	LT	205	MEDIAN ISLAND
205+16 - 207+15	RT	205	MAINLINE
209+75 - 210+53	LT	75	MAINLINE
SUBTOTAL CATEGORY 0020		2954	
	TOTAL	4916	

CONCRETE BARRIER SINGLE-FACED (WITH ANCHORAGE) SPECIAL

STATION - STATION	LOCATION	SPV.0090.02 LF
STH 124/BRIDGE ST CATEGORY 0020 203+38 - 203+97	RT	66
SUBTOTAL CATEGORY 002		66
	TOTAL -	66

CONSTRUCTION STAKING CONCRETE PAVEMENT JOINT LAYOUT

STATION - STATION	LOCATION	SPV.0105.01 LS	REMARKS
STH 124/BRIDGE ST			
CATEGORY 0010 200+05.61 - 210+50.68	4	0.5	MAINLINE CONCRETE
SUBTOTAL CATEGORY 0010		0.5	
CATEGORY 0020 200+05.61 - 210+50.68	~	0.5	MAINLINE CONCRETE
SUBTOTAL CATEGORY 0020		0.5	
	TOTALS		

CONCRETE SIDEWALK CURE AND SEAL TREATMENT

STATION	LOCATION	SPV.0165.02 SF
STH 124/BRIDGE ST		
CATEGORY 0010		
200+05 - 203+10	LT	3329
203+29 - 203+85	ĹŤ	547
207+15 - 208+87	ĹŤ	1027
207+15 - 208+63	RT	641
207+15 - 208+73	RT	1231
208+93 - 209+08	RT	85
209+12 - 209+26	RT	85
209+33 - 210+50	LT	672
209+48 - 210+50	RT	1374
SUBTOTAL CATEGORY	010	8991
CATEGORY 0020		
200+05 - 202+76	RT	2234
200+28 - 202+62	RT	1019
203+27 - 204+00	RT	1307
203+32 - 203+64	RT	107
205+04 - 207+15	LT	2495
205+17 - 207+15	RT	1835
207+36 - 208+59	LT	526
207+36 - 208+70	LT	1031
208+93 - 209+07	LT	131
209+13 - 209+30	RT	131
209+46 - 210+54	LT	427
209+57 - 210+53	LT	393
210+50 - 210+94	RT	178
210+53 - 211+09	LT	226
SUBTOTAL CATEGORY	0020	12040
	TOTAL -	21031

NUIE: ALL HEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED

FILE NAME : P:\UZ\W\WITNW\123530\CIVIL 3D\030201_MQ.DWG

PROJECT NO: 7255-05-72

COUNTY: CHIPPEWA HWY: STH 124 (S. BRIDGE ST)

MISCELLANEOUS QUANTITIES

SHEET

PLOT DATE: 1/30/2014 4:14 PM

PLOT BY : JUSTIN SHAVLIK PLOT NAME :

LIGHTING UNIT NO.	204.0195 REMOVING CONCRETE BASES EACH	SPV.0060.04 SALVAGE LIGHTING UNIT EACH	SPV.0060.05 LIGHTING UNIT TYPE SPECIAL EACH	SPV.0060.06 CONCRETE BASE TYPE SPECIAL EACH
STH 124/BRIDGE ST				
X-1	1	1		
X-2	1	1		
X-3	1	1		
X-4				
X-5				
X-6	1	1		
X-7	1	1		
X-8	1	1		
A-14			1	1
A-15			1	1
A-16			1	1
A-17			1	1
A-18			1	1
A-19			1	1
A-20			1	1
A-21			1	1
B-1			1	1
B-2			1	1
B-3			1	1
B-4			1	1
B-5			1	1
B-6			1	1
B-7			1	1
SUBTOTAL CATEGORY 0010	5	5	4	4
SUBTOTAL CATEGORY 0020	1	1	11	11

LIGHTING ELECTRICAL WIRE AND CONDUIT ITEMS

STA. FROM	STA. TO	204,9090.S.01 REMOVING CABLES LF	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF		655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
STH 124/BRIDGE ST						
X-1	X-2	175				
X-2	LCC-B	132				
X-8	XLPB-6	120				
XLPB-6	X-7	75				
X-7	XLPB-5	140				
X-6	XLPB-5	20				
XLPB-5	XJB-1	65				
X-3	XLPB-4	30				
XLPB-4	XLPB-3	65				
XLPB-3	LCC-B	110				
B-1	B-3	110	161	115	171	342
B-3	LPB-6		66	115	152	304
B-2	B-4		166	115	176	352
B-6	B-4		113	115	123	246
B-6	LPB-6		125	115	135	270
LPB-6	LCC-B		39	113	49	98
LPB-7	B-7		53		63	126
B-7	B-5		101	115	111	222
B-5	LCC-B		18	115	28	56
A-17	A-16		158	115	168	336
A-16	A-15		180	115	190	380
A-15	A-14		164	115	174	348
A-14	LPB-1		67	115	77	154
LPB-1	A-2		68	110	78	156
X-4	LPB-8			60	4.5	
X-5	LPB-8			60		
A-18	A-19		178	115	188	376
A-19	A-20		170	115	180	360
A-20	A-21		180	115	190	380
A-21	LPB-2		134	115	144	288
LPB-2	A-3		78		88	176
SUBTOTAL CATEGORY 0010 SUBTOTAL CATEGORY 0020		542 390	380 1839	230 1615	410 2075	820 4150
and the second section of the section of the second section of the secti	TOTALS	932	2219	1845	2485	4970

PULL BOX ITEMS

TOTALS

NO.	LOCATION	653.0145 PULL BOXES STEEL 24" X 48" EACH	653.0905 REMOVING PULL BOXES EACH
STH 124/BRIDGE ST			
XLPB-1			1
XLPB-2			1
XLPB-3			
XLPB-4			1
XLPB-5			1
XLPB-6			1
LPB-6	202+61.5, 59' RT	1	
LPB-7	203+58, 8.5' LT	1	
LPB-8	205+27, 16' LT	1	
SUBTOTAL CATEGORY 0010		2	4
SUBTOTAL CATEGORY 0020		1	1
	TOTALS	3	5

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED

HWY: STH 124 (S. BRIDGE ST) COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

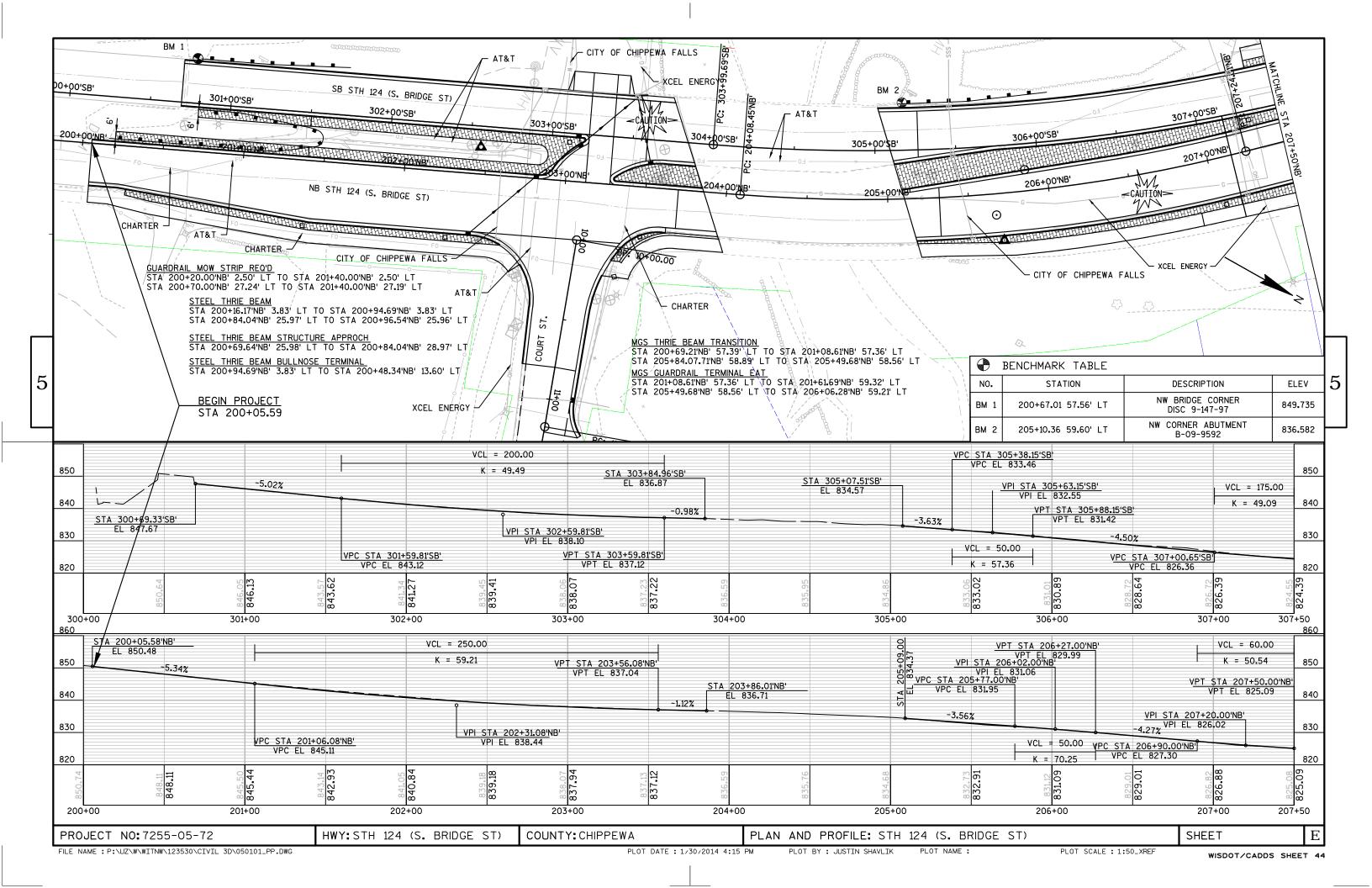
SHEET

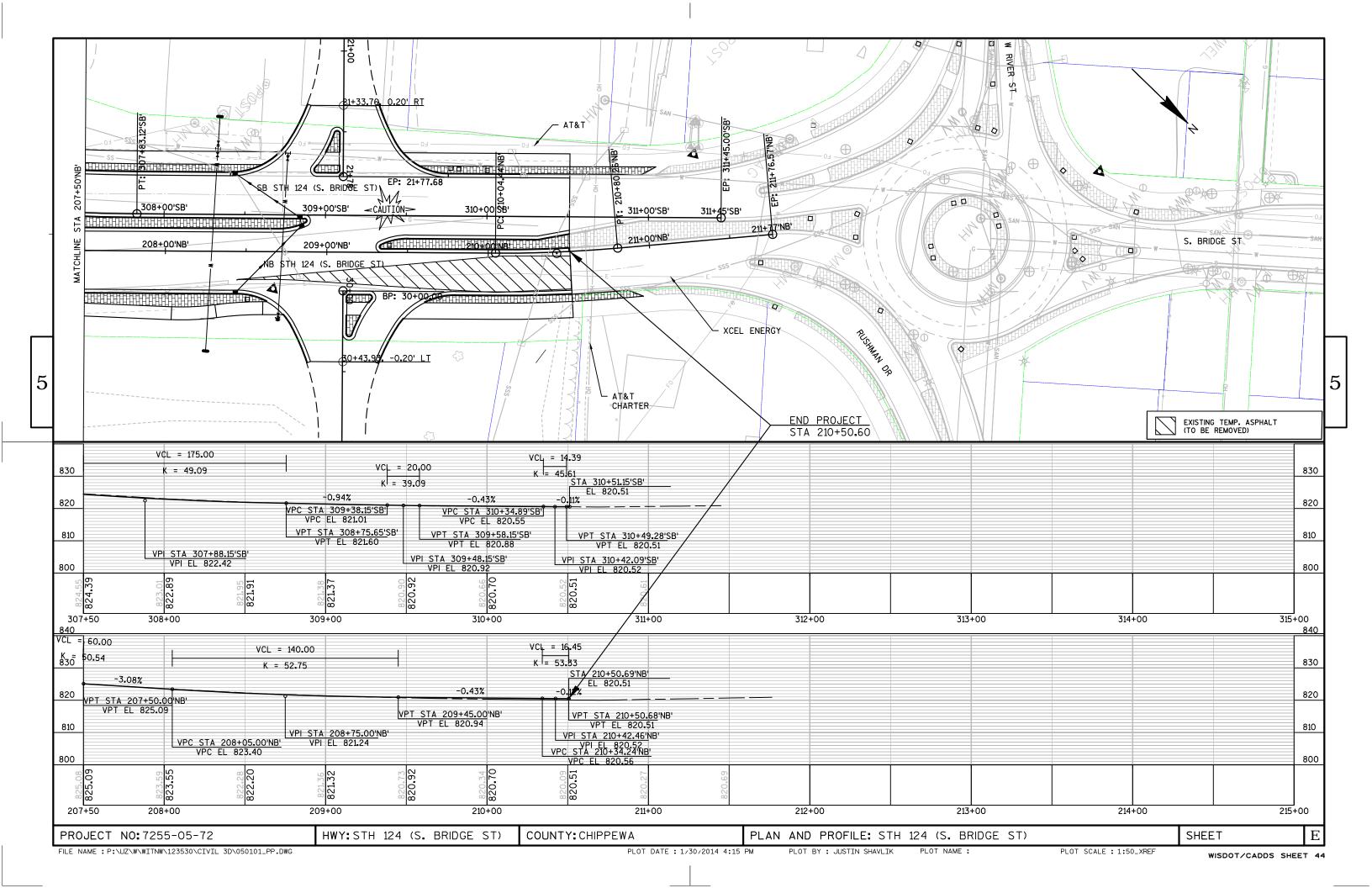
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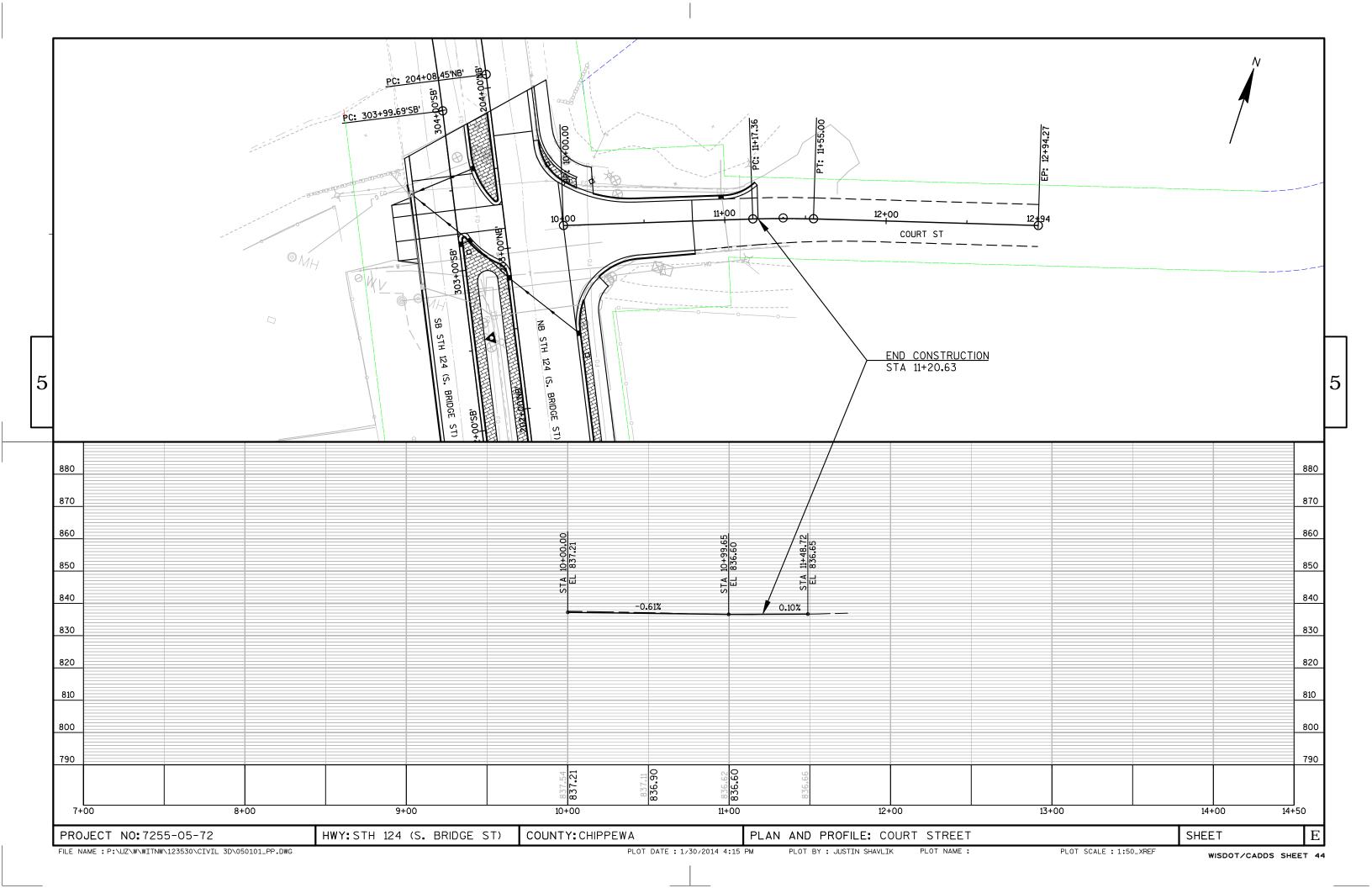
PROJECT NO: 7255-05-72

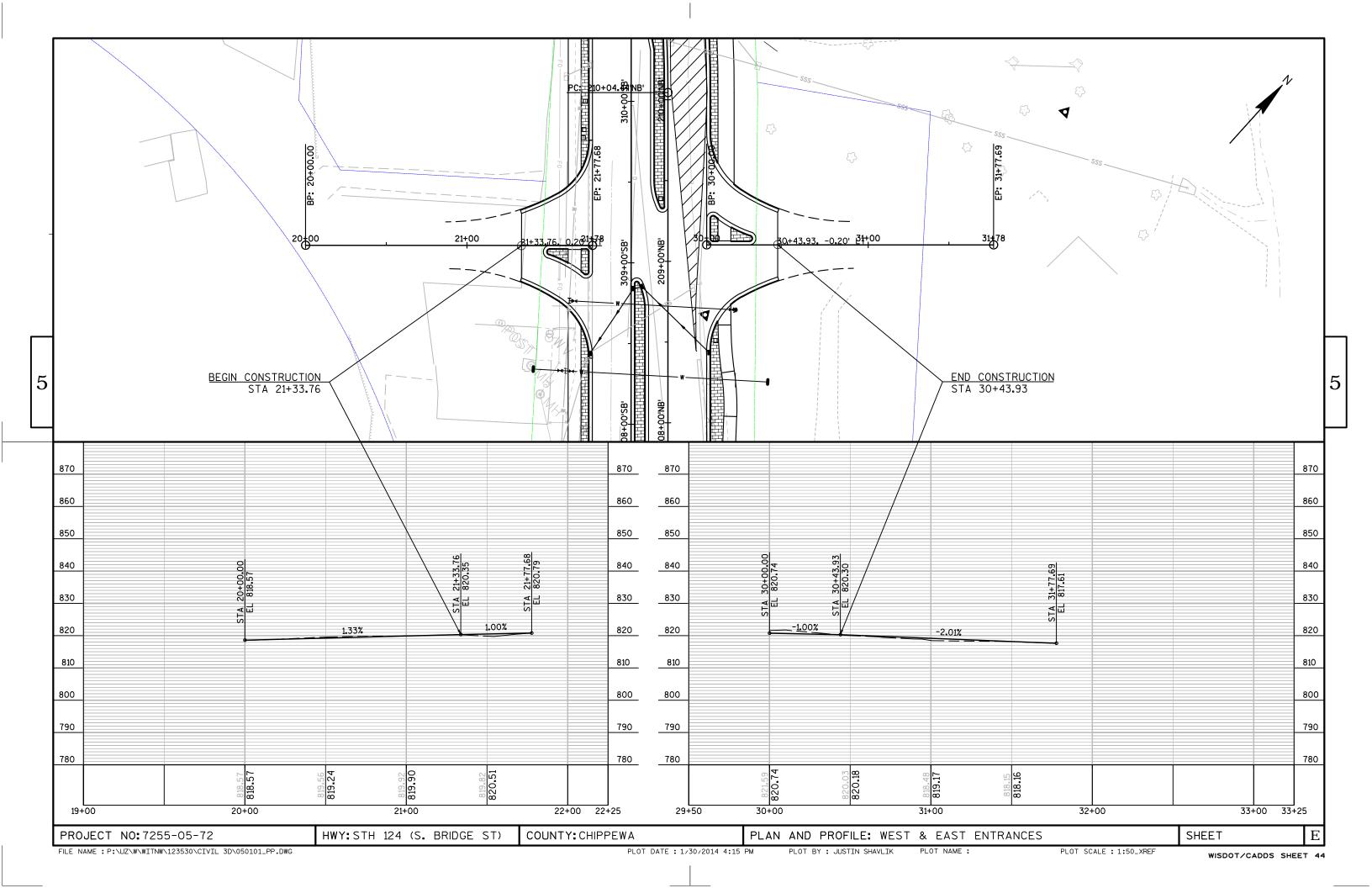
PLOT DATE: 2/28/2014 11:09 AM PLOT BY: JUSTIN SHAVLIK

PLOT NAME :





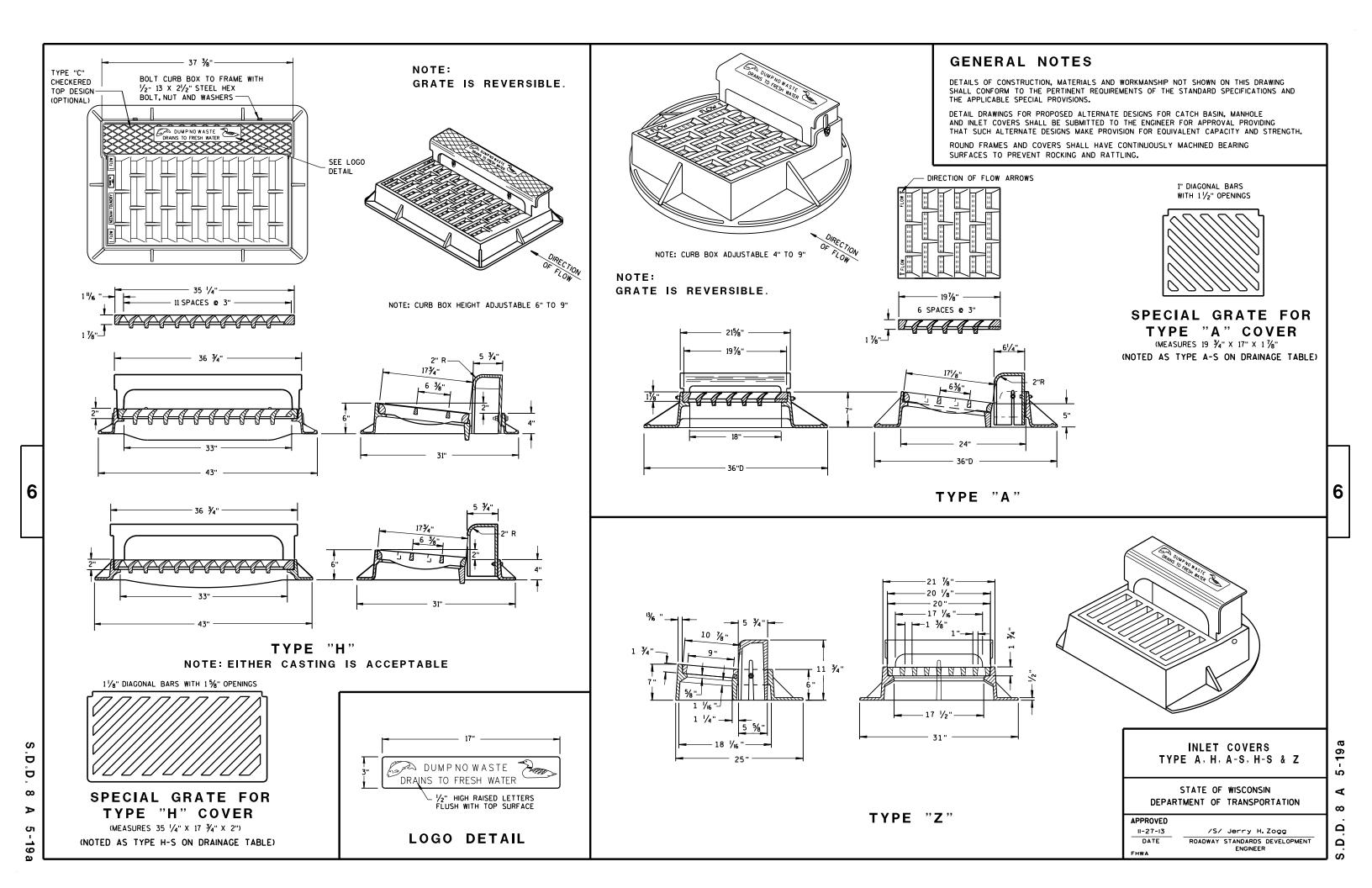


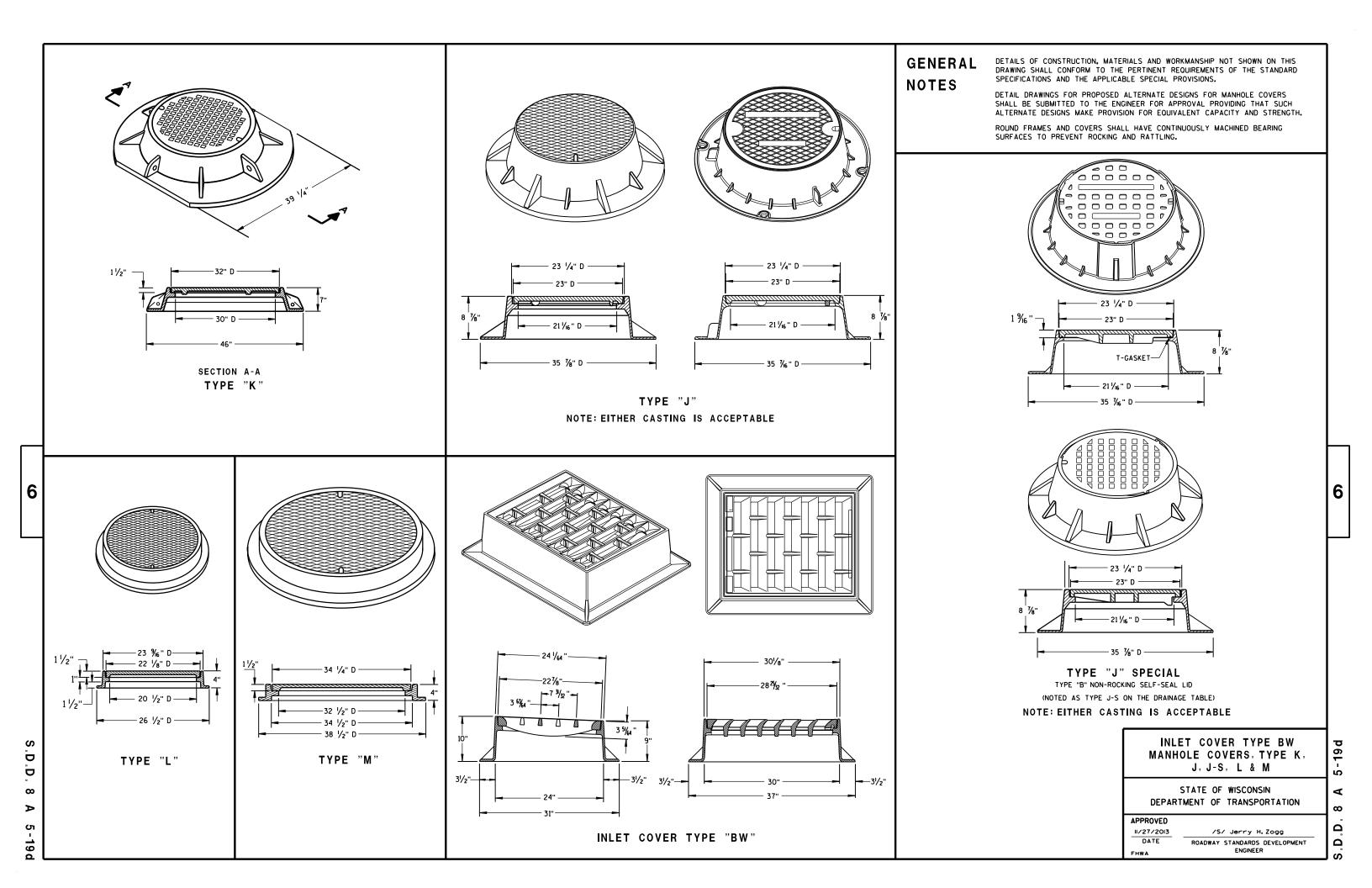


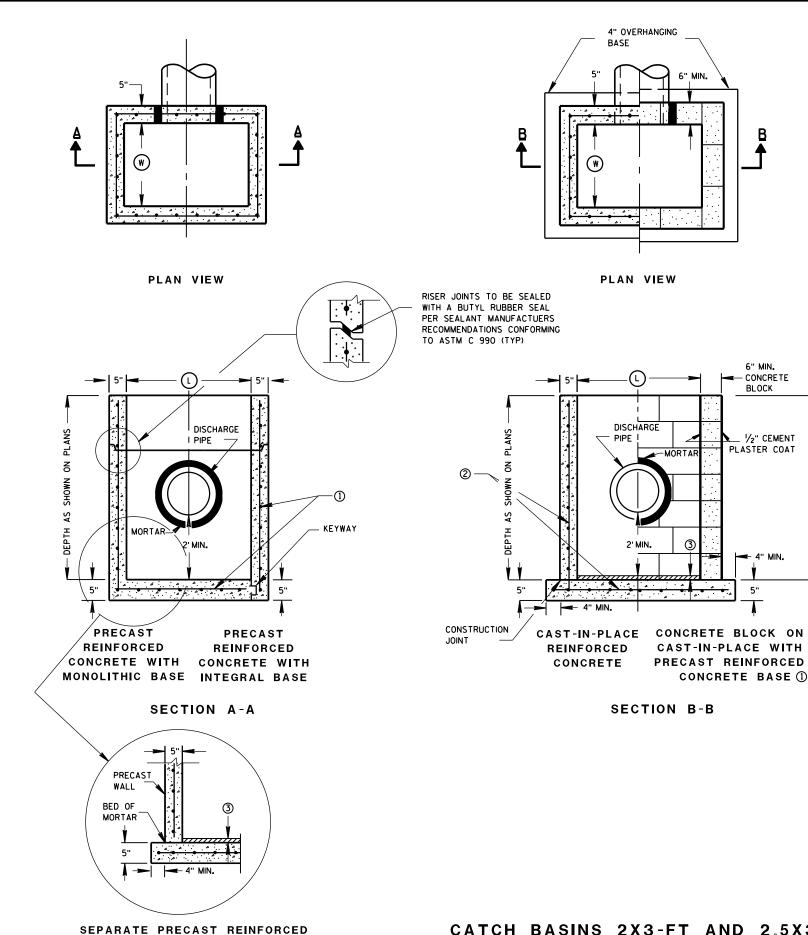
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Standard Detail Drawing List

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08A05-19A
               INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19D
               INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A09-01
               CATCH BASINS 2X3-FT AND 2.5X3-FT
08D01-17
               CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-15A
               CURB RAMPS TYPES 1 AND 1-A
08D05-15B
               CURB RAMPS TYPES 2 AND 3
              CURB RAMPS TYPES 4A AND 4A1
08D05-15C
08D05-15D
              CURB RAMPS TYPE 4B AND 4B1
08D05-15E
              CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E09-06
               SILT FENCE
08E10-02
               INLET PROTECTION TYPE A, B, C AND D
08F04-07
               JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-07
               CONDUI T
09B04-10
               PULL BOX
11B02-02
               CONCRETE MEDIAN NOSE
               CONCRETE PAVEMENT APPROACH SLAB
13B02-06
13C01-16
               CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08
              URBAN DOWELED CONCRETE PAVEMENT
13C18-02A
               CONCRETE PAVEMENT JOINTING
13C18-02B
               CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-02C
               CONCRETE PAVEMENT JOINT TIES
13C18-02D
               CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14B08-01A
               CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01B
               CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01C
               CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01D
               CRASH CUSHI ON/SAND BARREL ARRAY AND OTHER TEMPORARY BARRI ER LAYOUT DETAILS
14B08-01E
               CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B20-11A
               STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11B
               STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS
               STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-02A
14B26-02B
               STEEL THRIE BEAM BULLNOSE TERMINAL
               STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-02C
14B26-02D
               STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-02E
               STEEL THRIE BEAM BULLNOSE TERMINAL
               GUARDRAIL MOW STRIP
14B28-02
14B42-02A
              MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B
               MI DWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C
               MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A
               MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B
              MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C
              MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A
               MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B
              MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C
              MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03D
              MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A02-08
              DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15C02-05A
               BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B
               BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-02
               BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-02
               TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B
               PAVEMENT MARKING WORDS
15C07-12C
               PAVEMENT MARKING ARROWS
               PAVEMENT MARKING (MAINLINE)
15C08-16A
               PAVEMENT MARKING (INTERSECTIONS)
15C08-16B
15C08-16E
               PAVEMENT MARKING (LEFT TURN LANÉ)
15C08-16F
               PAVEMENT MARKING (ISLANDS)
15C11-05
               FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C33-01
               STOP LINE AND CROSSWALK PAVEMENT MARKING
               TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D06-03
               TRAFFIC CONTROL, SINGLE LANE CROSSOVER EXIT
15D09-03
15D11-04
               TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D16-02
               TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-02
               TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D30-01
               TRAFFIC CONTROL, SIDEWALK CLOSURE
```







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 CATCH BASIN 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 PRECAST CATCH BASIN UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES 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 GRANULAR 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.

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

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND 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.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

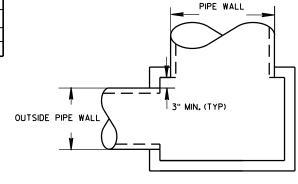
- (1) FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- (2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.
- (3) 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER	F	ALL H'S
	WIDTH (V) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		Х
2.5X3-FT	2.5	3	Х	

PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES			
CATCH BASIN SIZE	WIDTH (IN)	LENGTH (IN)		
2X3-FT	12	24		
2.5X3-FT	18	24		



DETAIL "A"

OUTSIDE

CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ⋖

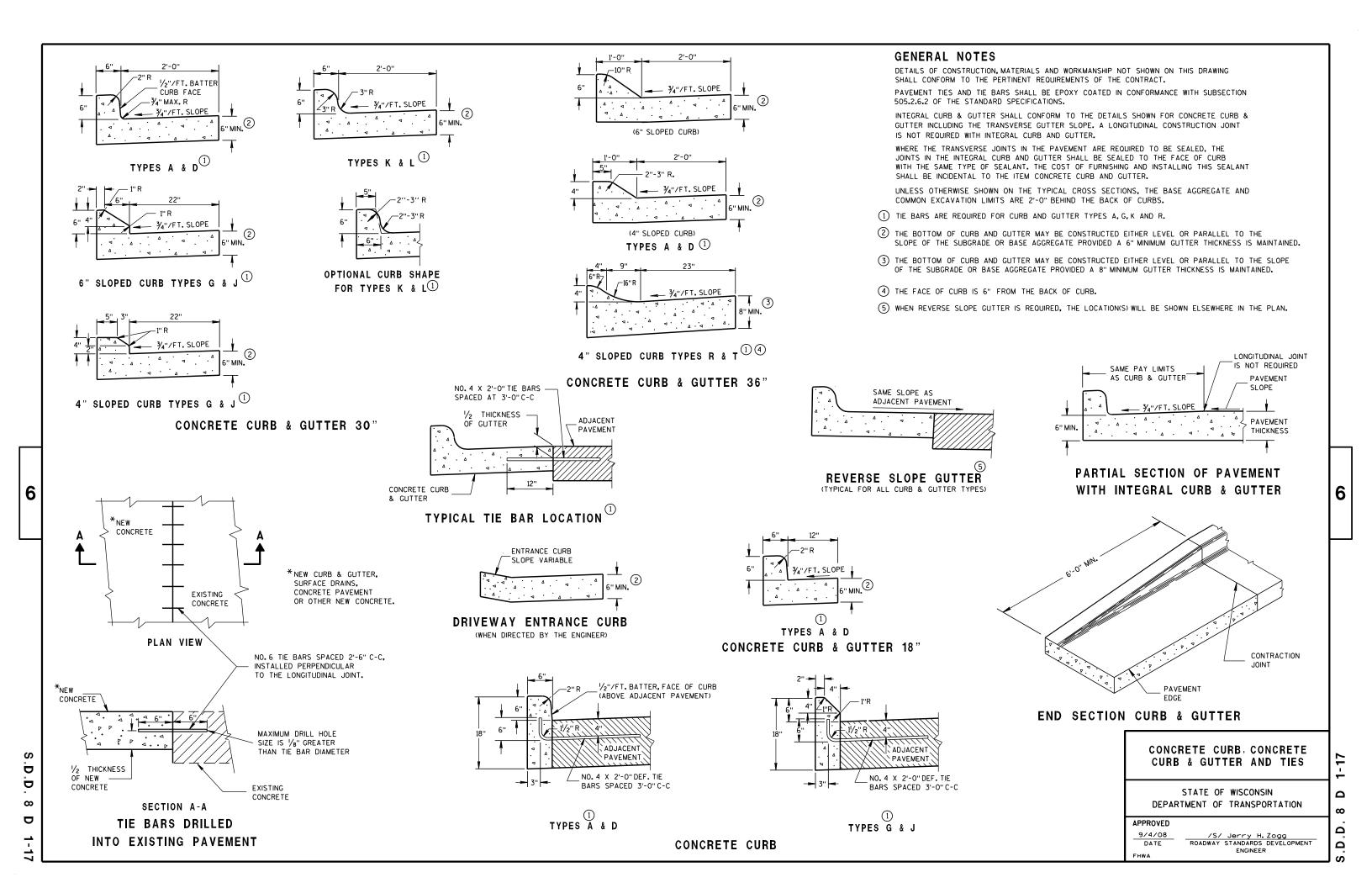
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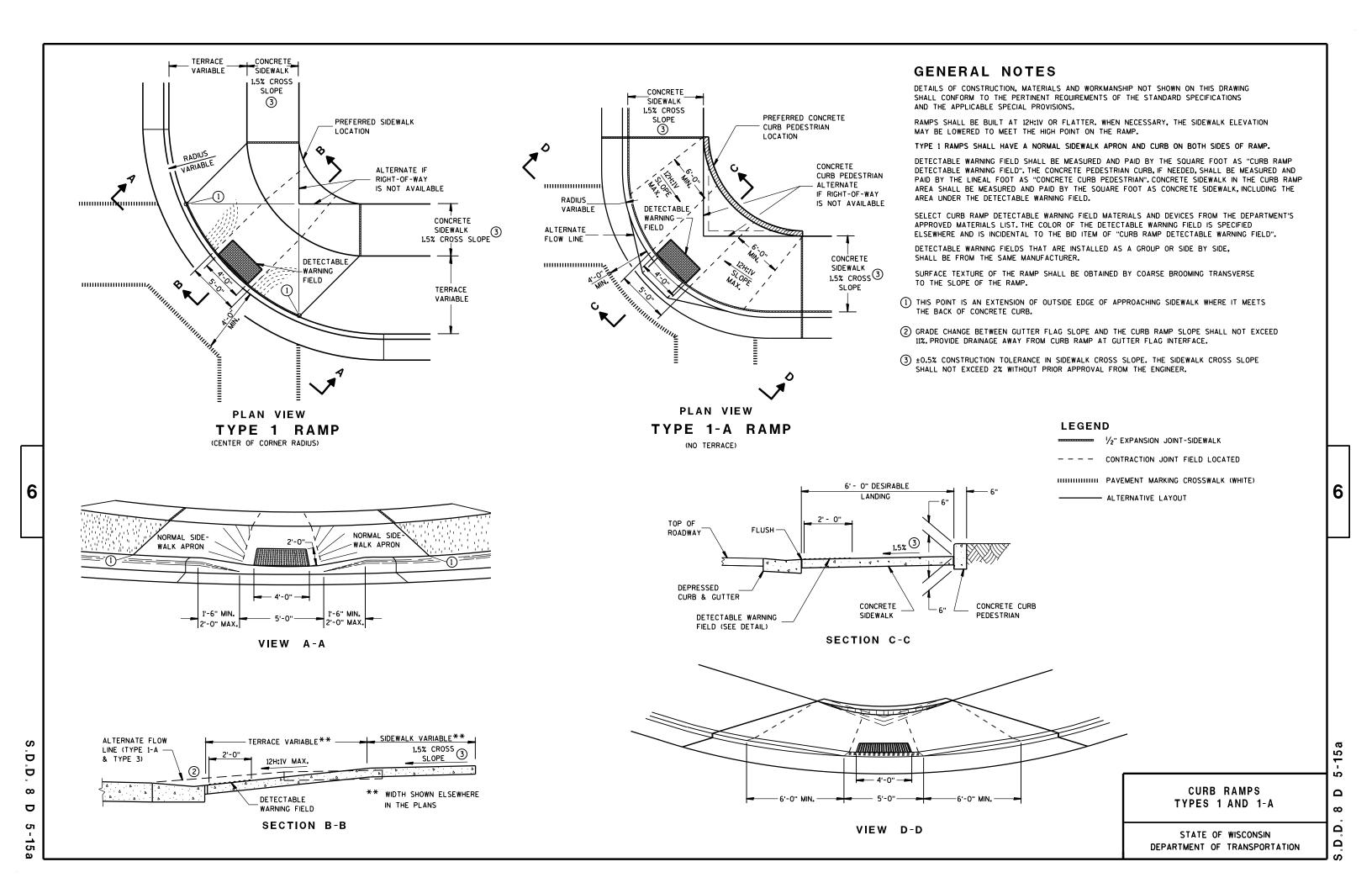
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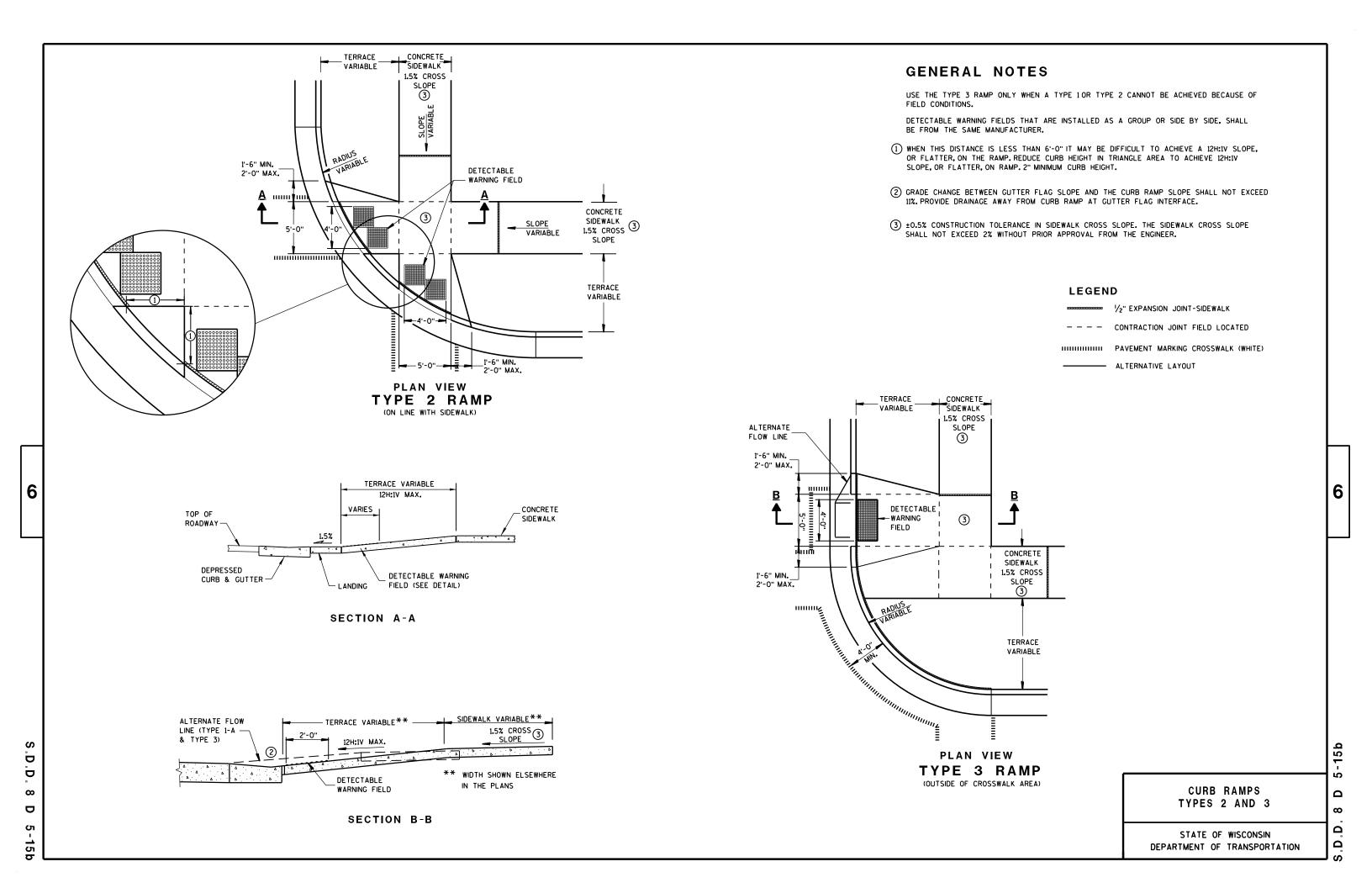
APPROVED 6/5/2012 /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT DATE ENGINEER FHWA

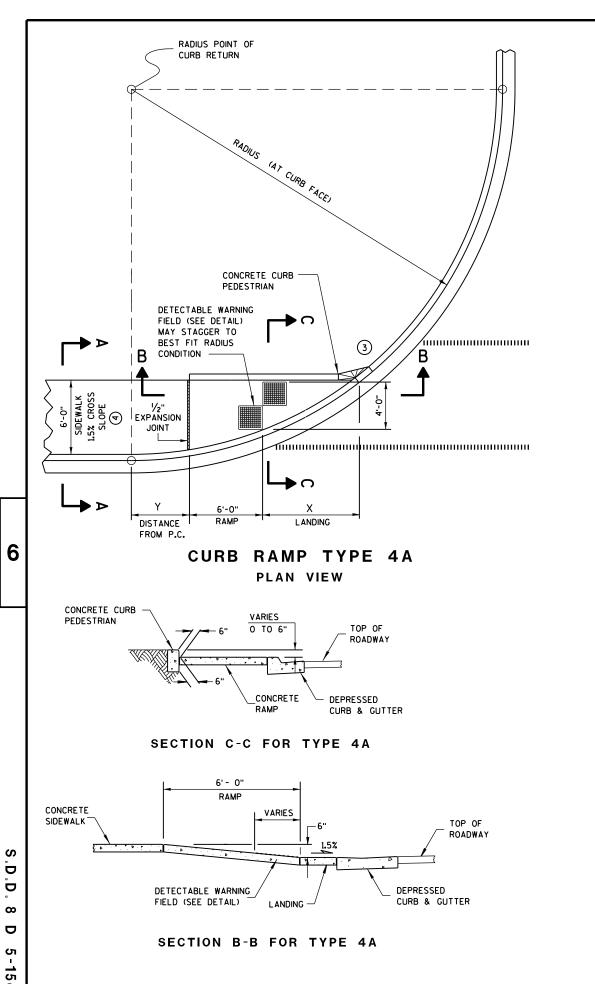
CATCH BASINS 2X3-FT AND 2.5X3-FT

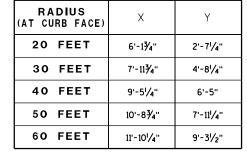
CONCRETE BASE OPTION











GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE.

4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS

SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

ISOMETRIC VIEW FOR TYPE 4A

ISOMETRIC VIEW FOR TYPE 4A1

₩ 1/2" EXPANSION JOINT-SIDEWALK

HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

CONTRACTION JOINT FIELD LOCATED

CURB RAMPS

TYPES 4A AND 4A1

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

LEGEND

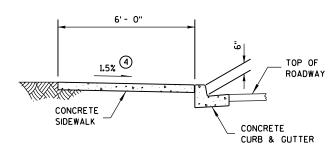
OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

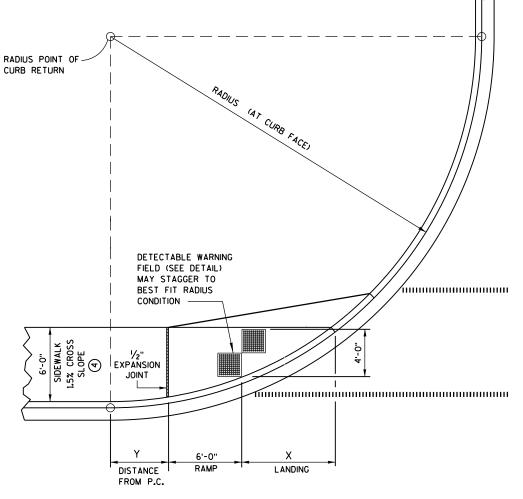
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

SHALL BE FROM THE SAME MANUFACTURER.

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

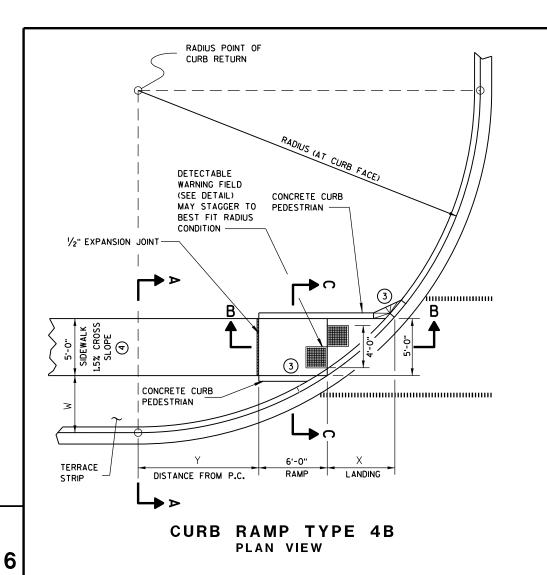


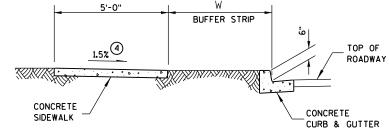
CURB RAMP TYPE 4A1
PLAN VIEW

15c

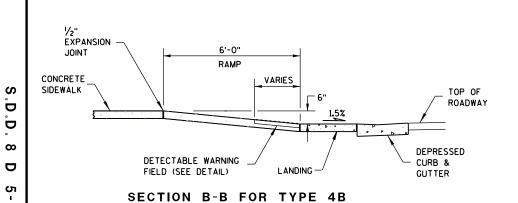
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SECTION A-A FOR TYPE 4B



LEGEND

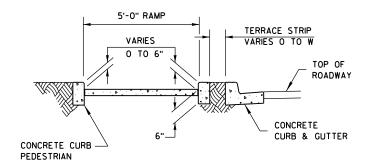
/2" EXPANSION JOINT-SIDEWALK

---- CONTRACTION JOINT FIELD LOCATED

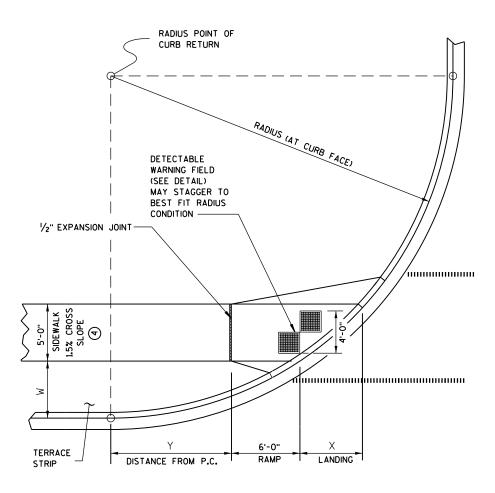
HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - ∅"		W = 5' - Ø"		W = 6' - Ø"		W = 7' - 0"	
	X	Y	X	Υ	X	Y	X	Y	X	Y
20 FEET	5'-51/2"	4'-61/2"	4'-81/2"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-31/2"	3'-11/2"	9'-21/2"
30 FEET	7'-3¾"	7'-1"	6'-51/2"	8'-11'/2"	5'-91/4"	10'-7"	5'-21/2"	12'-0"	4'-8¾"	13'-3'/4"
40 FEET	8'-91/2"	9'-21/2"	7'-10"	11'-5'/4"	7'-1"	13'-41/2"	6'-5¾"	15'-¾"	5'-111/2"	16'-7'/4"
50 FEET	10'-¾"	11'-3⁄4''	9'-1/4"	13'-7'/4"	8'-21/2"	15'-91/2"	7'-61/2"	17'-9"	6'-11¾"	19'-6'/4"
60 FEET	11'-21/2"	12'-8¾"	10'-¾"	15'-61/2"	9'-21/4"	17'-11¾"	8'-5¾"	20'-1¾"	7'-101/2"	22'-11/2"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION C-C FOR TYPE 4B



CURB RAMP TYPE 4B1
PLAN VIEW

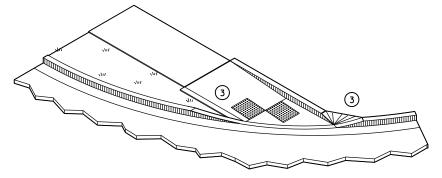
GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

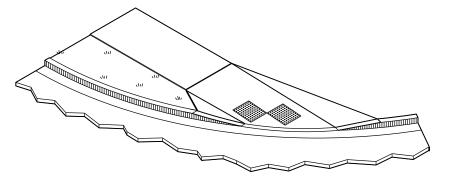
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- (3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.
- (4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4B

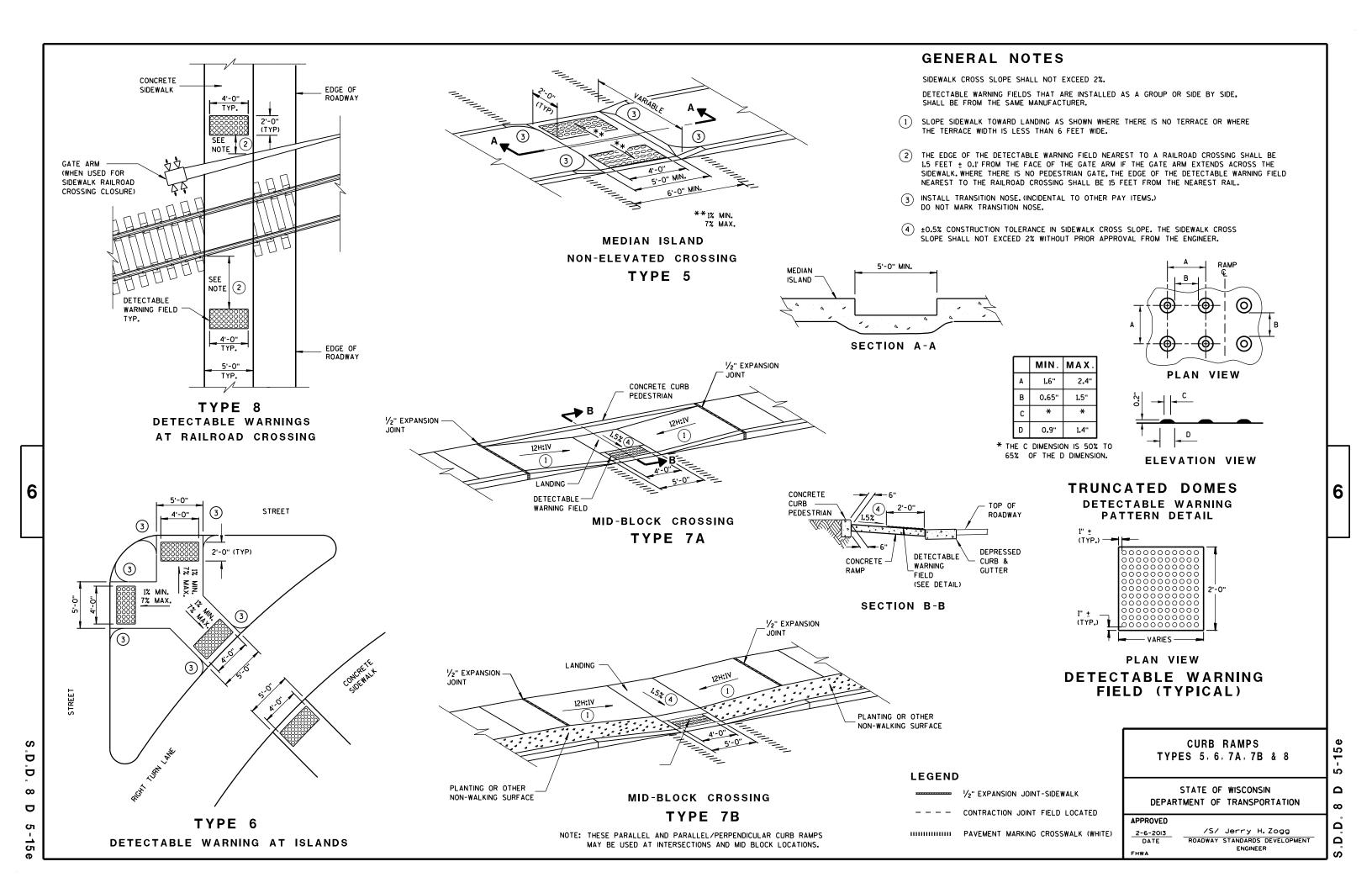


ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS Type 4B and 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

D.D. 8 D 5-15d



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.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 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)



SILT FENCE

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INLET PROTECTION, TYPE A

GENERAL NOTES

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

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

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

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

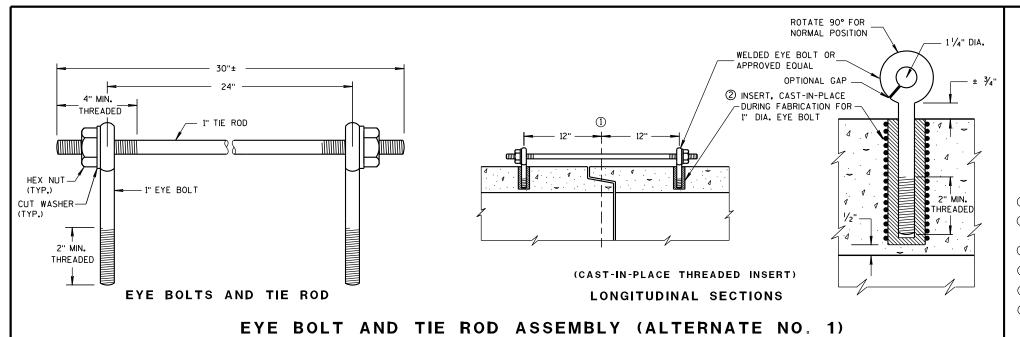
10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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GENERAL NOTES

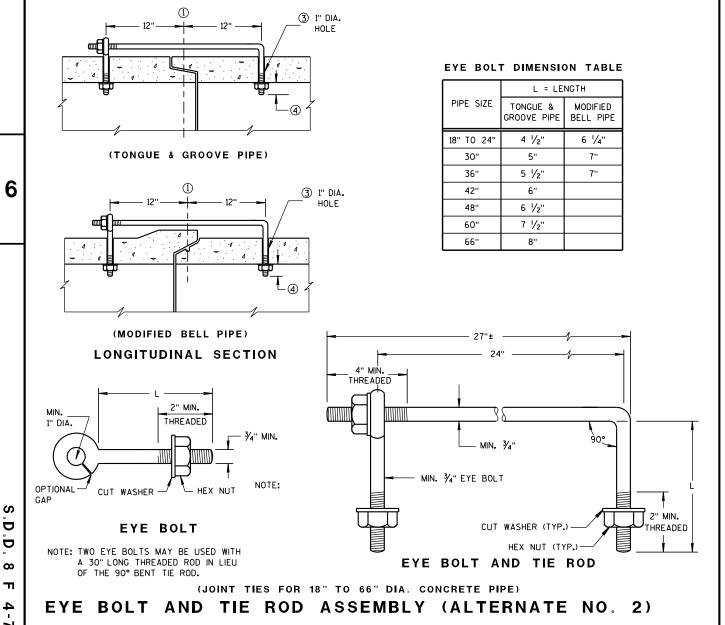
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

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

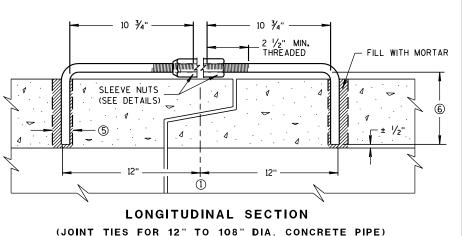
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

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

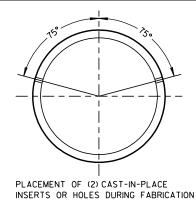


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ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

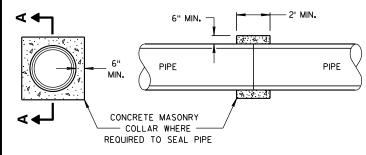


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

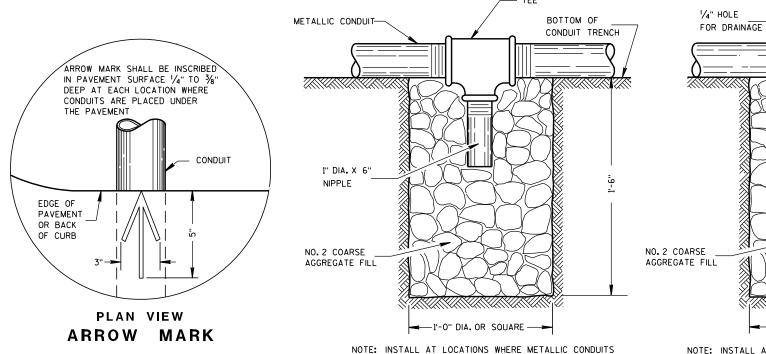
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DRAIN SUMP FOR METALLIC CONDUIT

CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

—1'-0" DIA. OR SQUARE —→

PVC CONDUIT-

BOTTOM OF

CONDUIT TRENCH

NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

ARROW MARK INSCRIBED IN PAVEMENT SURFACE OVER ← OF CONDUIT (BOTH ENDS) NORMAL EDGE ÒF PAVEMENT PAVEMENT **PAVEMENT** OR BACK OF CURB BASE COURSE BACKFILL SLOPE 1/8"/FT. EITHER DIRECTION *DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES CONDUIT, PITCH TO DRAIN WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652,2,2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

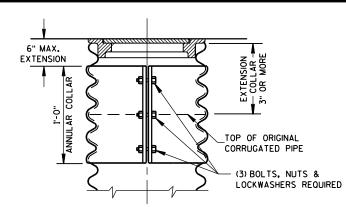
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Balu Ananthanarayanan 10/23/03 STATE ELECTRICAL ENGINEER FOR HWYS

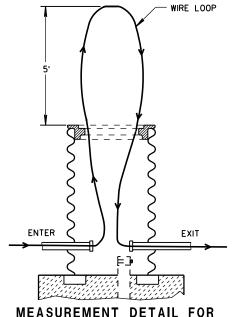
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- * THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.
- NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL



CORRUGATED PIPE EXTENDER

HEAVY DUTY FRAME -

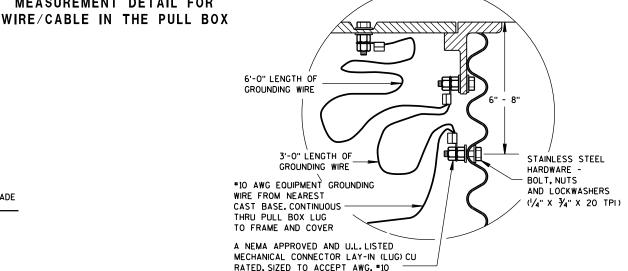


ALTERNATE COVER (LOCKING)

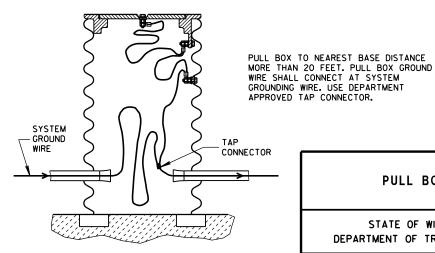
SECTION

воттом

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



EQUIPMENT GROUNDING LUG AND

LOCATION IN STEEL PULL BOXES

TO #4 COPPER STRANDED WIRE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

FHWA

2-7-2013 /S/ Ahmet Demirbilek DATE STATE ELECTRICAL ENGINEER

PULL BOX

TO THE PULL BOX BID PRICE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED. SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

S.D.D. 9B2. "CONDUIT". APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

AND COVER ELECTRIC WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE FINAL GRADE ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED CUT OPENINGS AS REQUIRED IN THE FIELD 6" MIN. ALL CONDUIT PITCHED (TYP.) TO DRAIN TO PULL BOXES 4 TO 8 BRICKS **EQUALLY SPACED** 2" DRAIN DUCT TO DITCH OR SEWER NO. 2 COARSE WHEN SPECIFIED AGGREGATE 2" PVC PIPE CAP ON BOTH ENDS (SEE SECTION 501 WITH 7,8 1/4" HOLES DRILLED OF THE STANDARD IN EACH END. SPECIFICATIONS) INSTALL END BELLS (U.L. LISTED FOR ELECTRICAL USE) ON ALL NONMETALLIC CONDUIT BEFORE INSTALLATION OF WIRE AND/OR CABLE.

PULL BOX

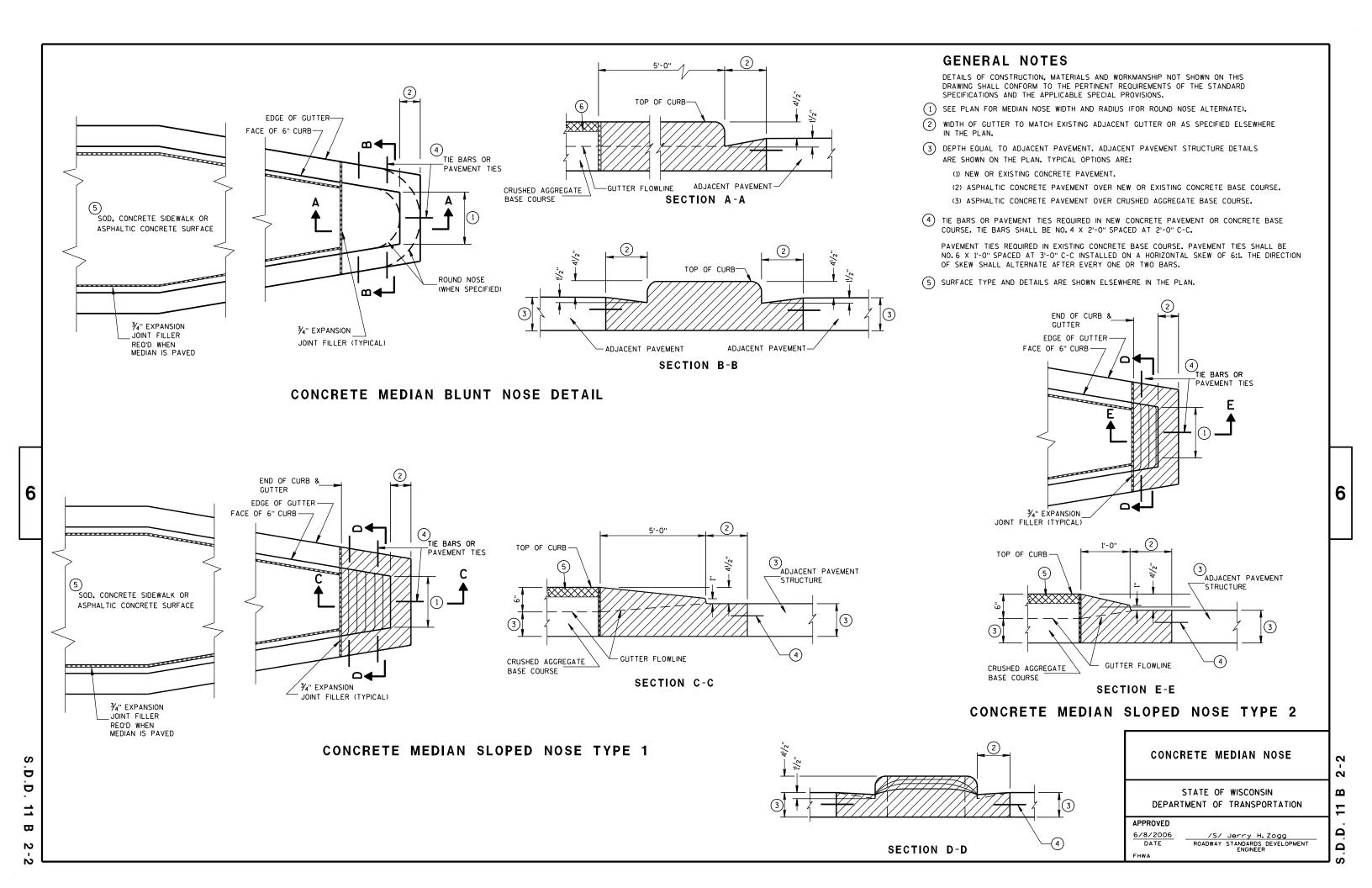
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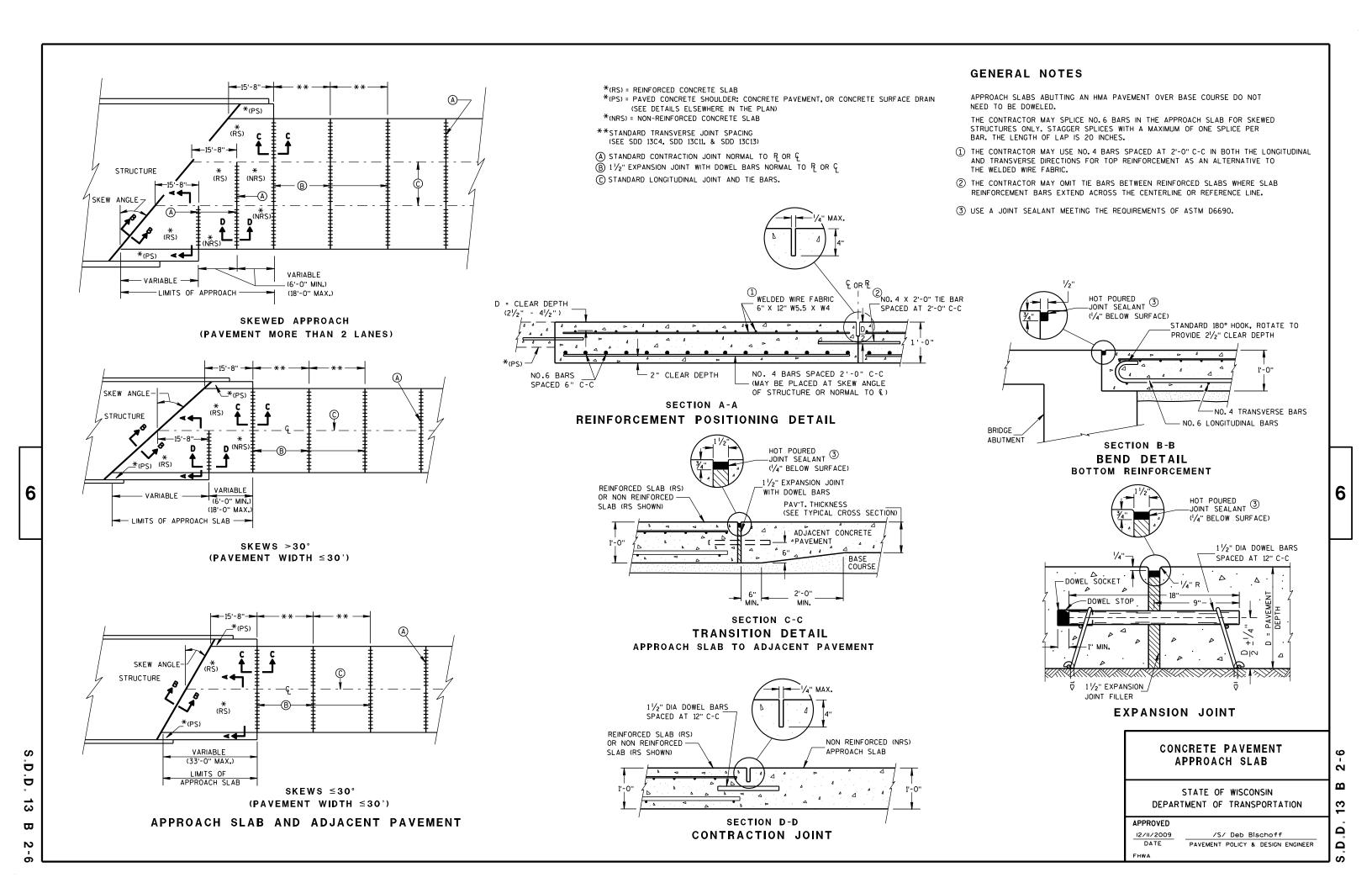
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SEE DETAIL "A" PAVEMENT SURFACE

SAWED JOINT

GENERAL NOTES

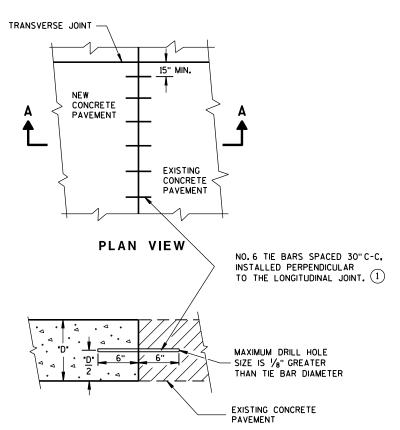
DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

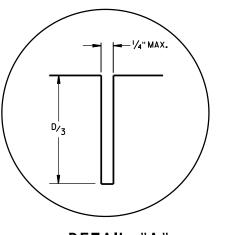
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

1 ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

CONSTRUCTION JOINT



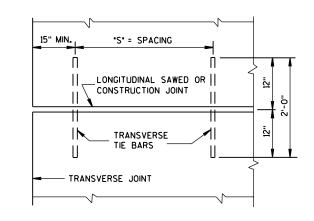
SECTION A-A LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"

TIE BAR TABLE

PAVEMENT DEPTH "D"	CLEAR COVER	MAXIMUM TI SPACING PAVEMENT 24' OR 26'	
6, 6 1/2"	3"± ¹ / ₂ "	48"	42"
7, 7 1/2"	3 ¼"±1"	45"	36"
8, 8 1/2"	3 ¾"±1"	39"	30"
9, 9 ½"	4 1/4"±1"	33"	27"
10, 10 1/2"	4 ¾"±1"	30"	24"
11, 11 ½"	5 ¼"±1"	27"	21"
12"	5 ¾"±1"	24"	21"



PLAN VIEW SHOWING LOCATION OF TIE BARS

CONCRET	E PAVEI	MENT	
LONGITUDINAL	JOINTS	AND	TIES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

5-3-2013 DATE /S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER FHWA

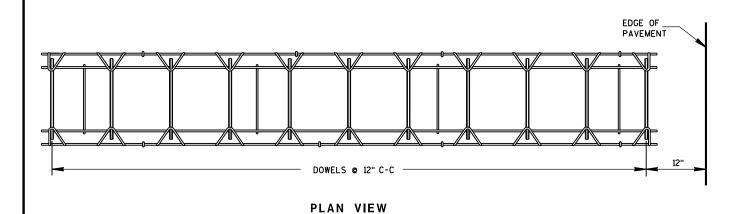
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PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7",7 1/2"	1"	14'
8"•8 1/2"	1 1/4"	15'
9",9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

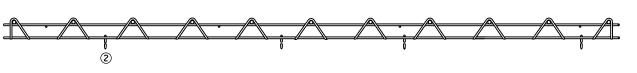
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE

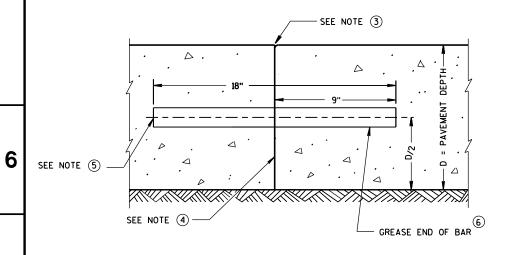
CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

- (1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.
- 2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.
- (3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.
- 4 PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.
- 5 INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO DRILLED DOWEL BAR CONSTRUCTION JOINT DETAIL.
- 6 APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
- (7) ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER. 9 INCHES IN LENGTH.



SIDE VIEW CONTRACTION JOINT DOWEL ASSEMBLY



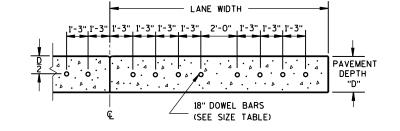
TRANSVERSE CONSTRUCTION JOINT

△ DOWEL BARS © 12" C-C 12" FROM PAVEMENT EDGE-

DOWELED CONTRACTION JOINT

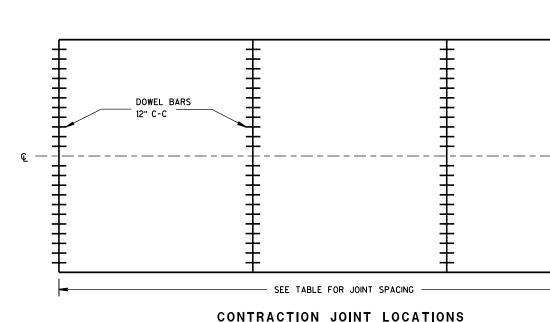
(SEE SIZE TABLE)

SEE JOINT DETAIL



(FOR 11' LANE WIDTH REDUCE CENTER SPACE TO 1'-O")

DRILLED DOWEL BAR CONSTRUCTION JOINT $^{\scriptsize \bigcirc}$



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

- ¼" MAX.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 5/3/2013

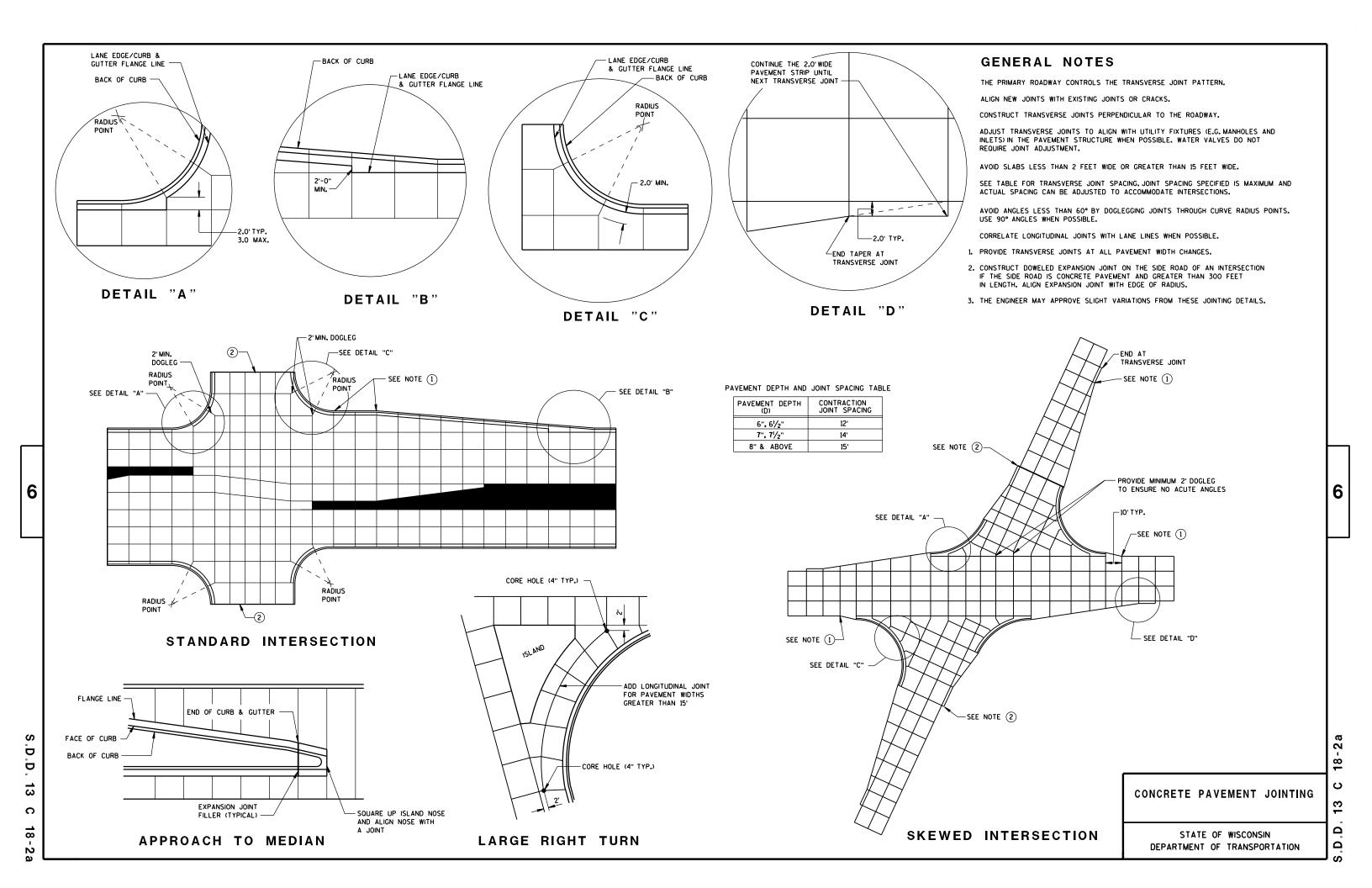
FHWA

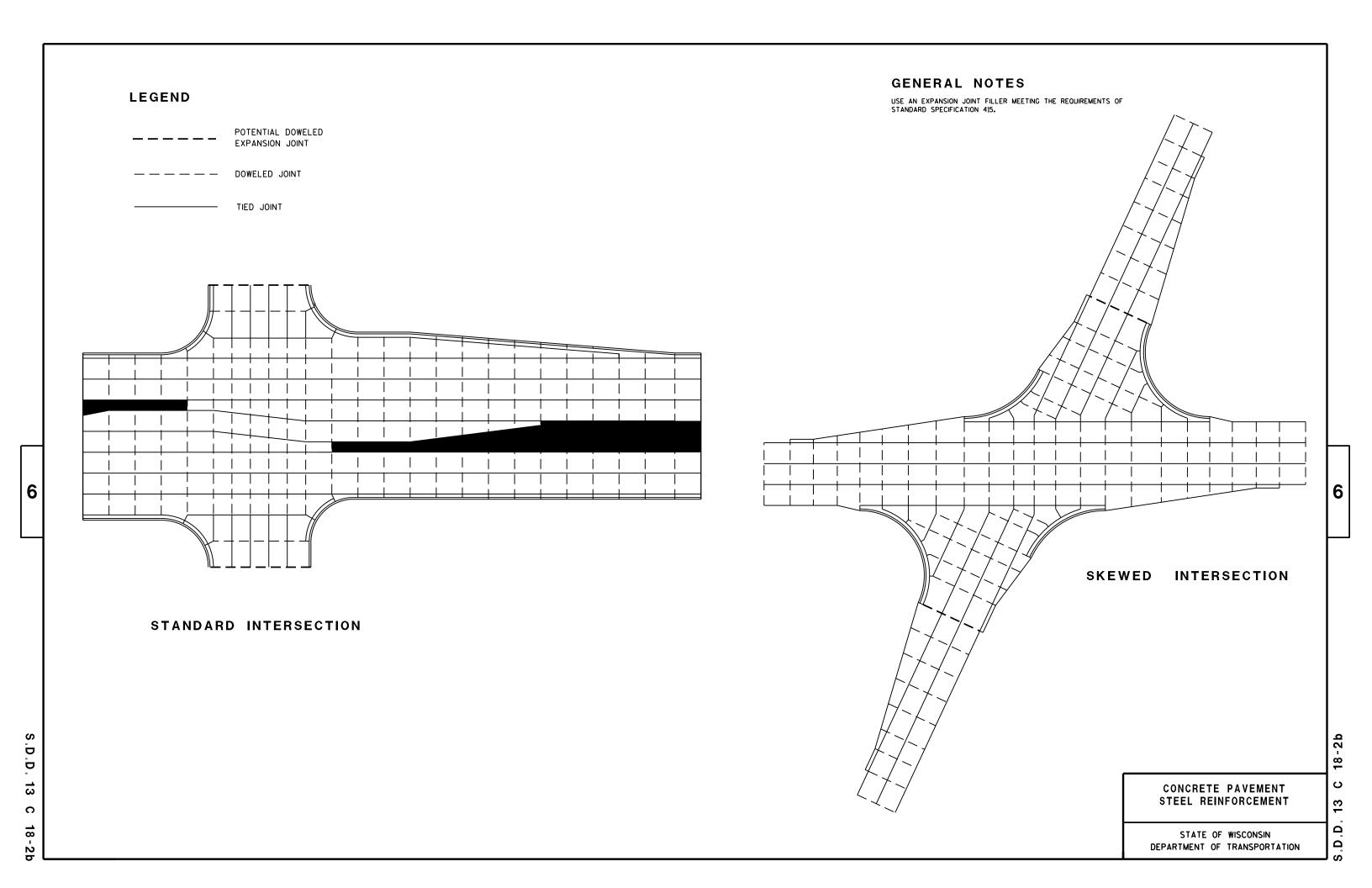
/S/ Deb Bischoff PAVEMENT POLICY & DESIGN ENGINEER

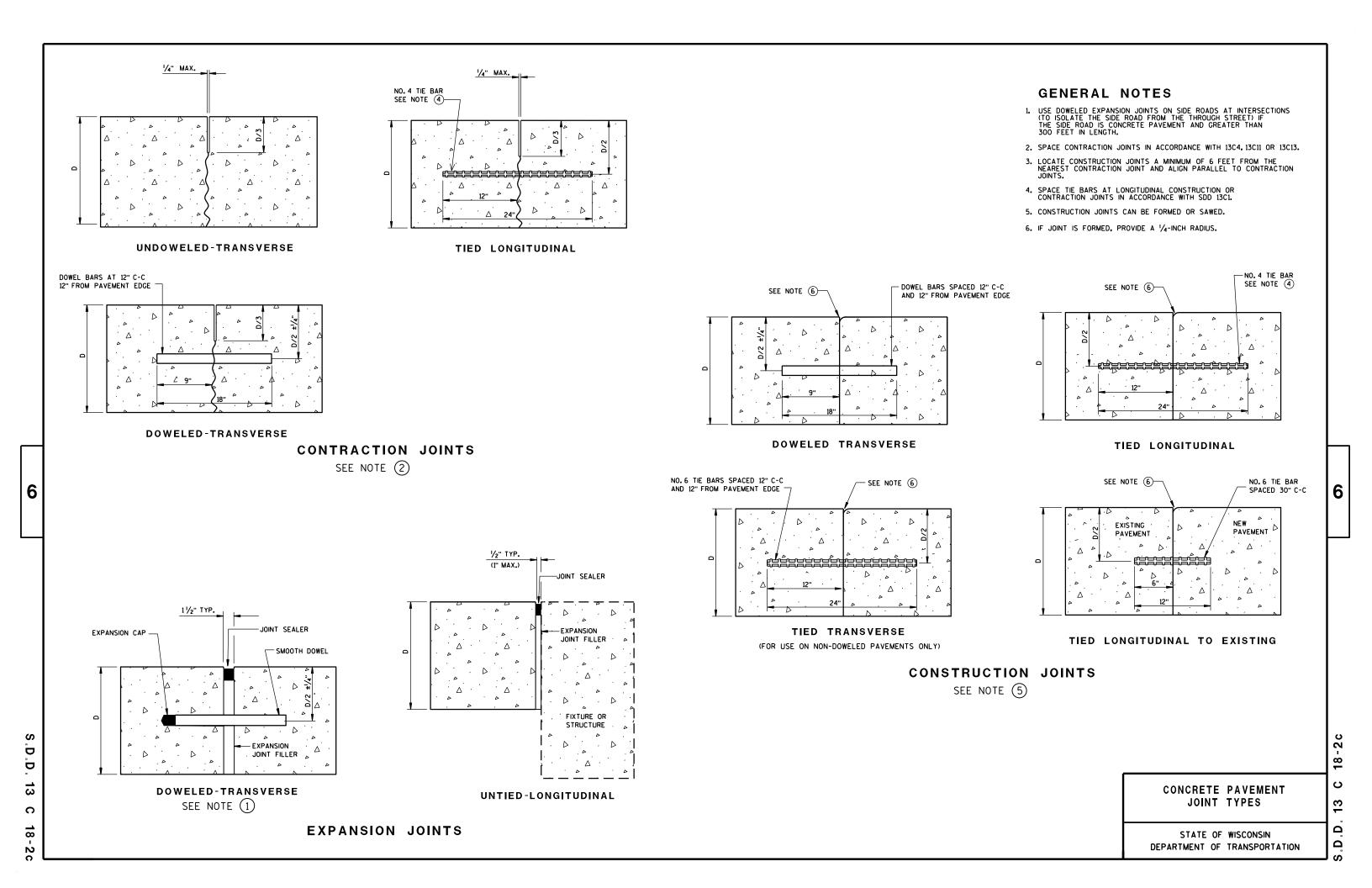
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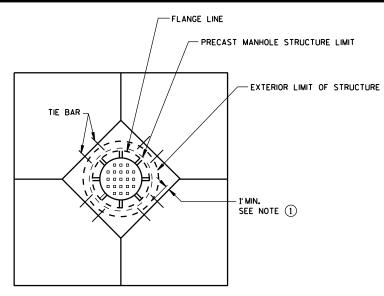
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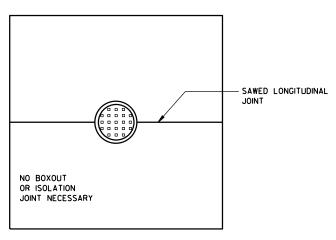




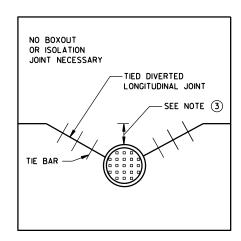




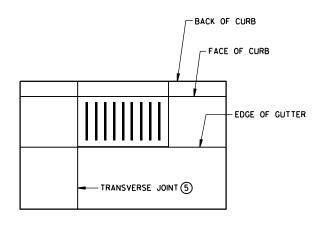
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



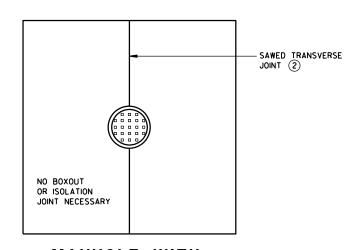
MANHOLE WITH LONGITUDINAL JOINT



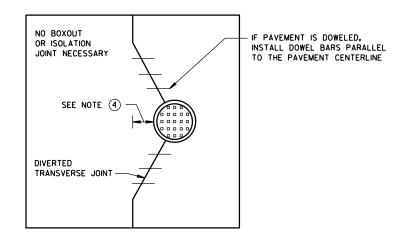
MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



INLET WITH TRANSVERSE JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

- ① USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2 ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- (3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT
JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

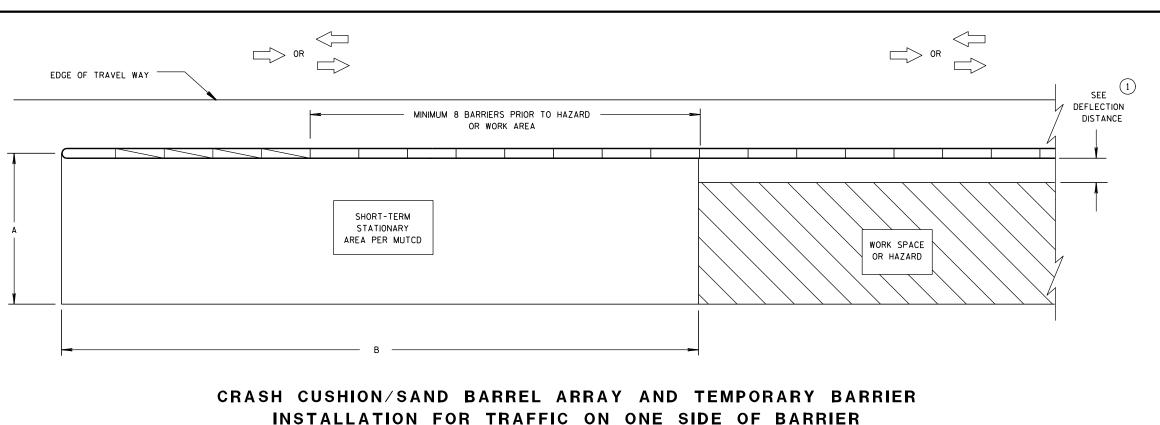
5-3-2013
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER

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DIMENSION A TABLE (2)

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

DIMENSION B TABLE 2

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

DIRECTION OF TRAVEL

SAND BARREL ARRAY

CRASH CUSHION OR

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY

BARRIER

LEGEND

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ω

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CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

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

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

OR 🖒

EDGE OF TRAVEL WAY -

EDGE OF TRAVEL WAY -

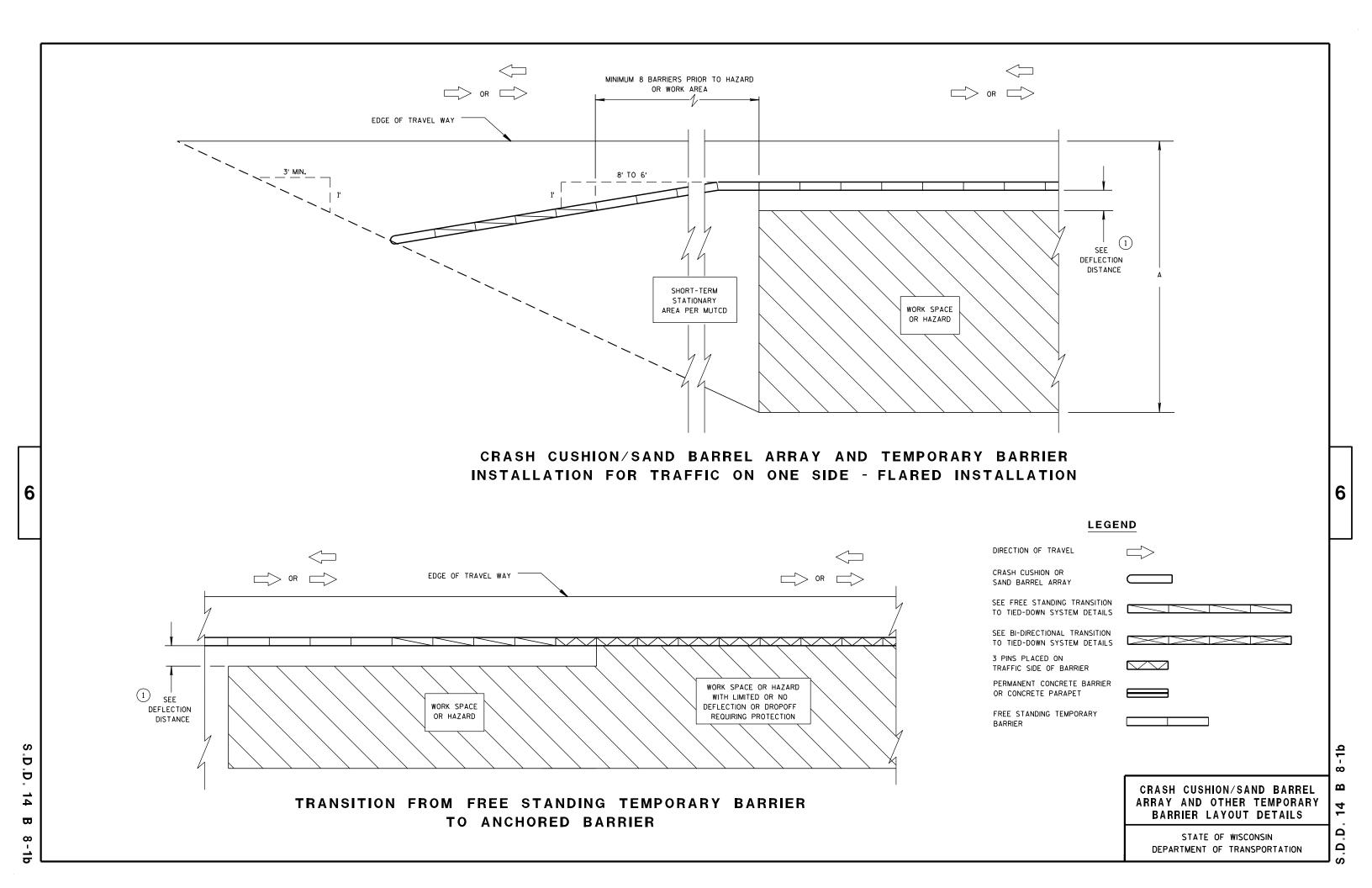
TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

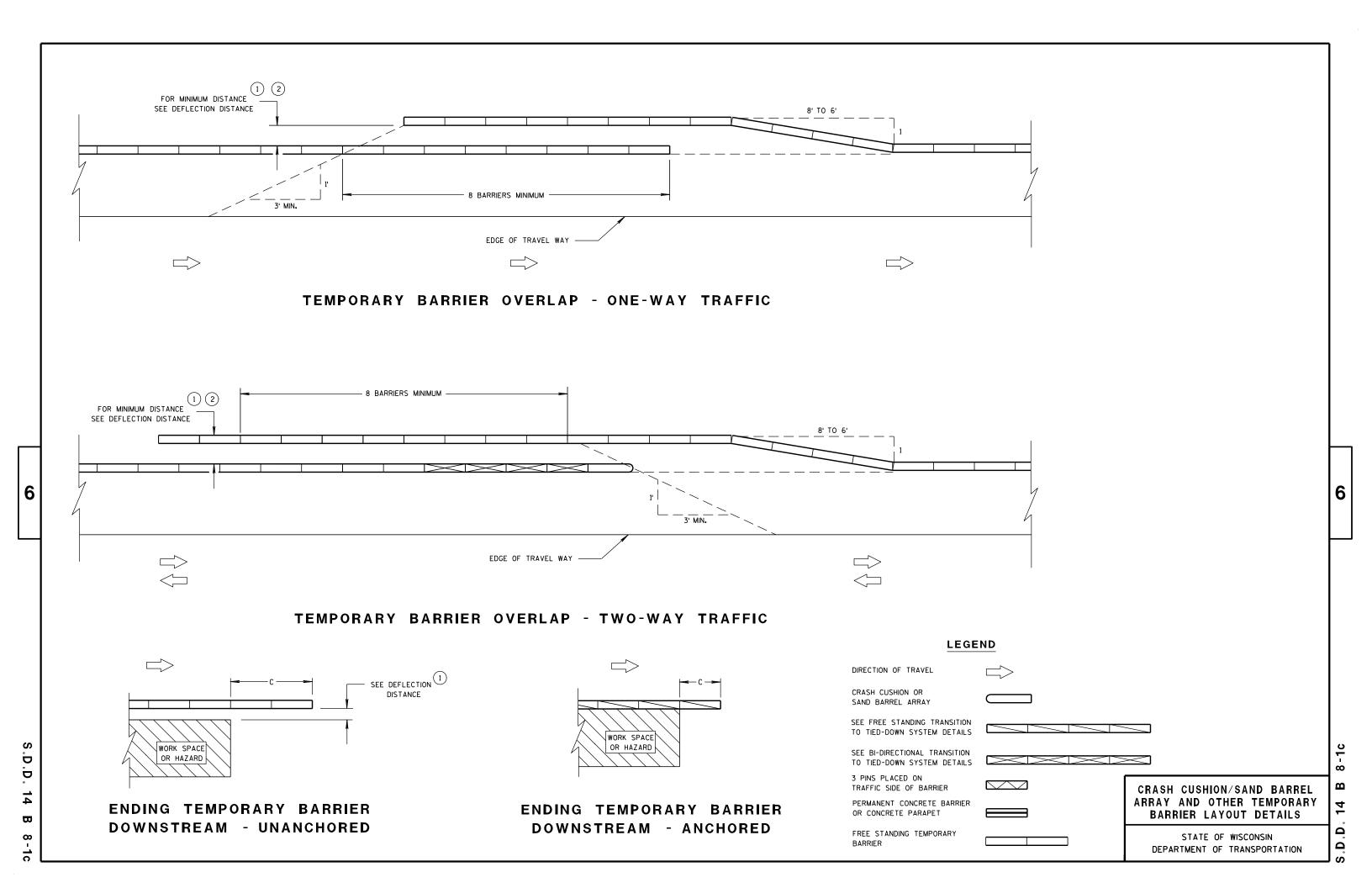
FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

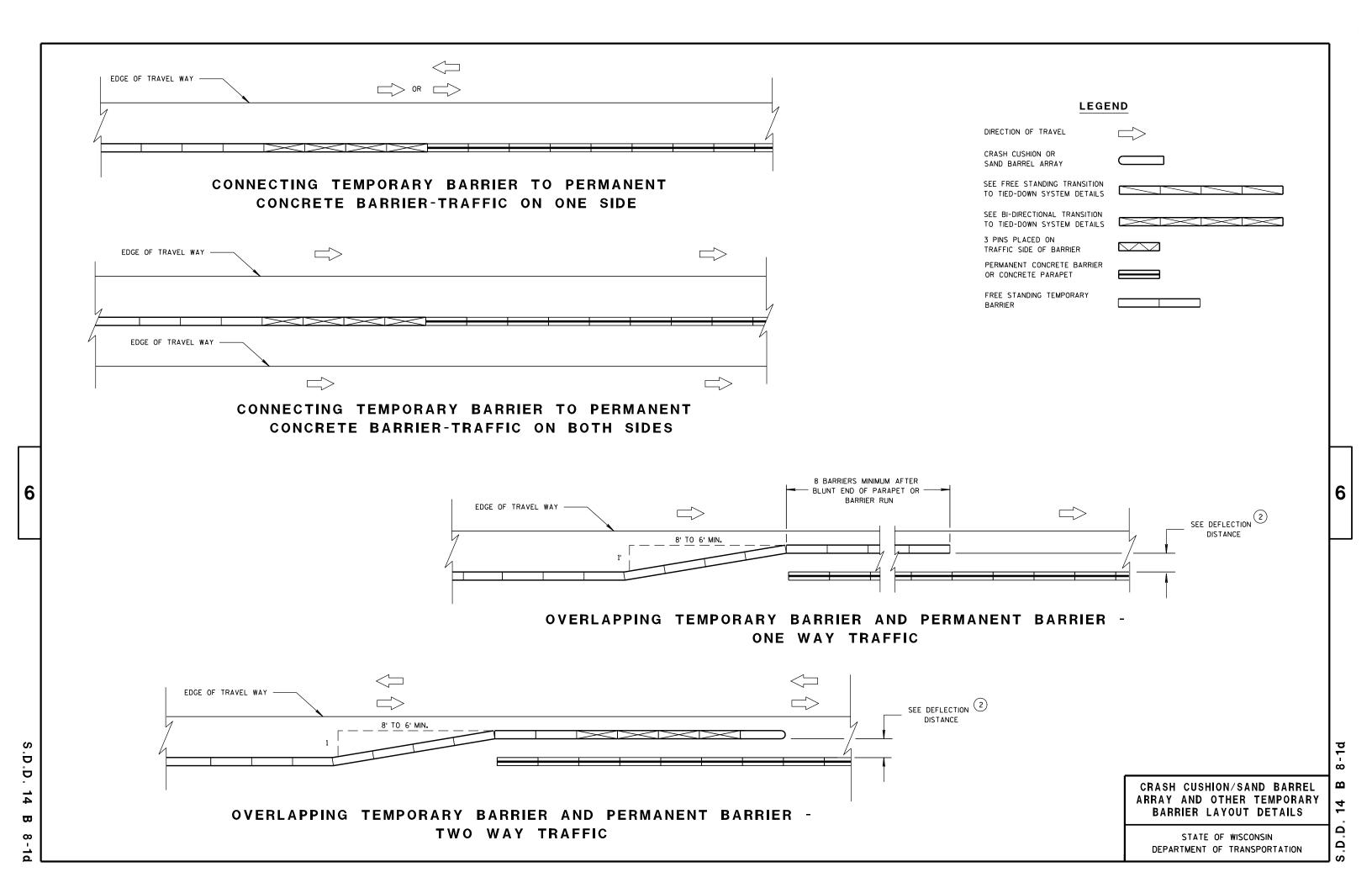
SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

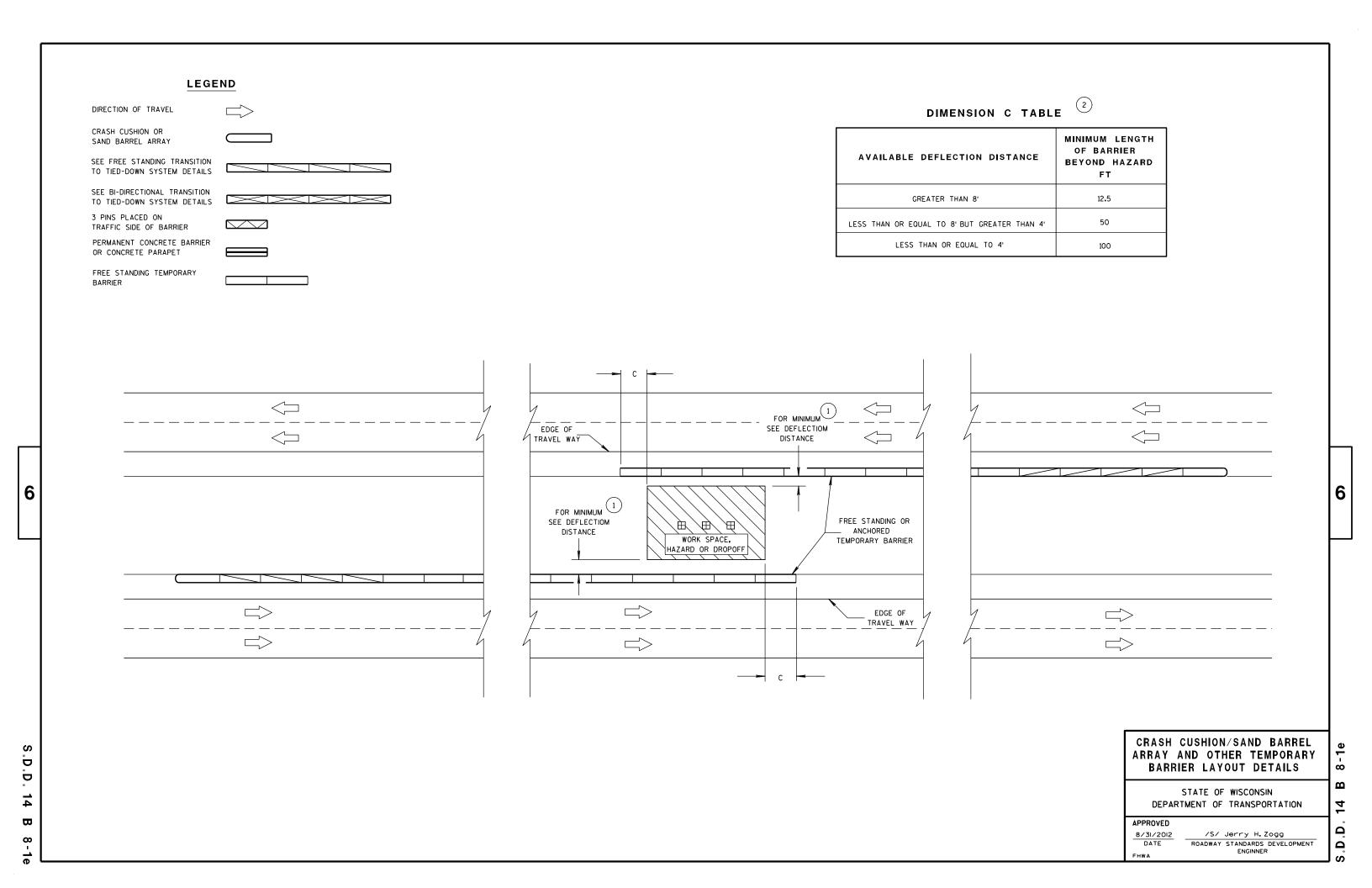
(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

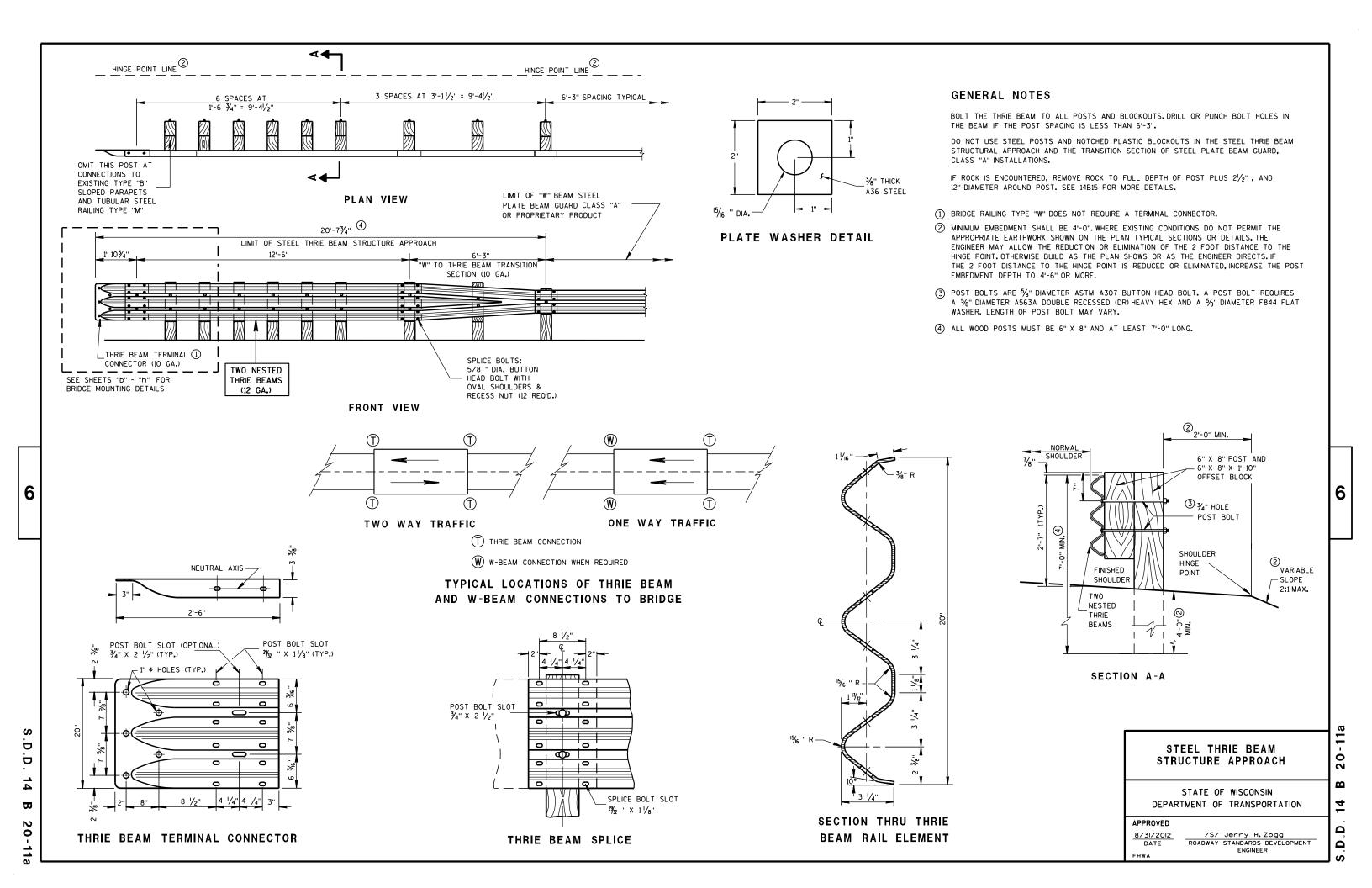
(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

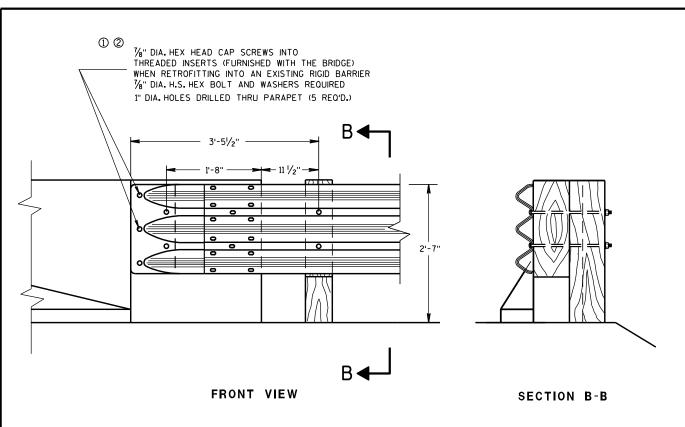




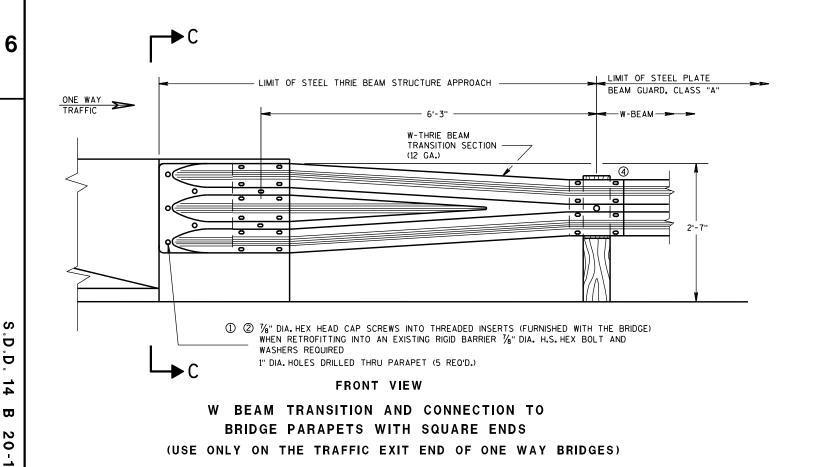








THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



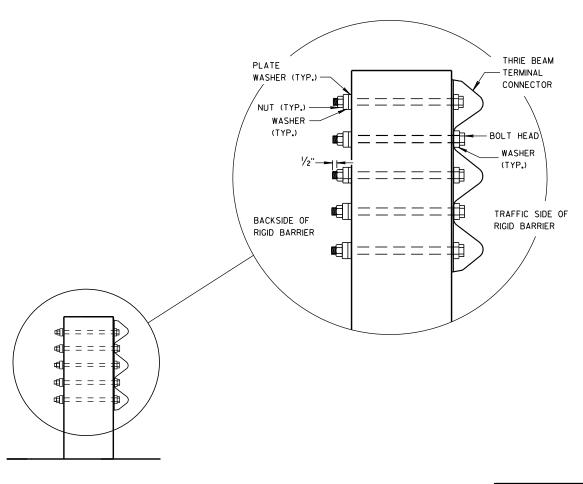
GENERAL NOTES

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

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

- ① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- ② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE, CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X $\frac{5}{8}$ " THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- 3 THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 $\frac{1}{2}$ ".
- 4 W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

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



SECTION C-C

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS

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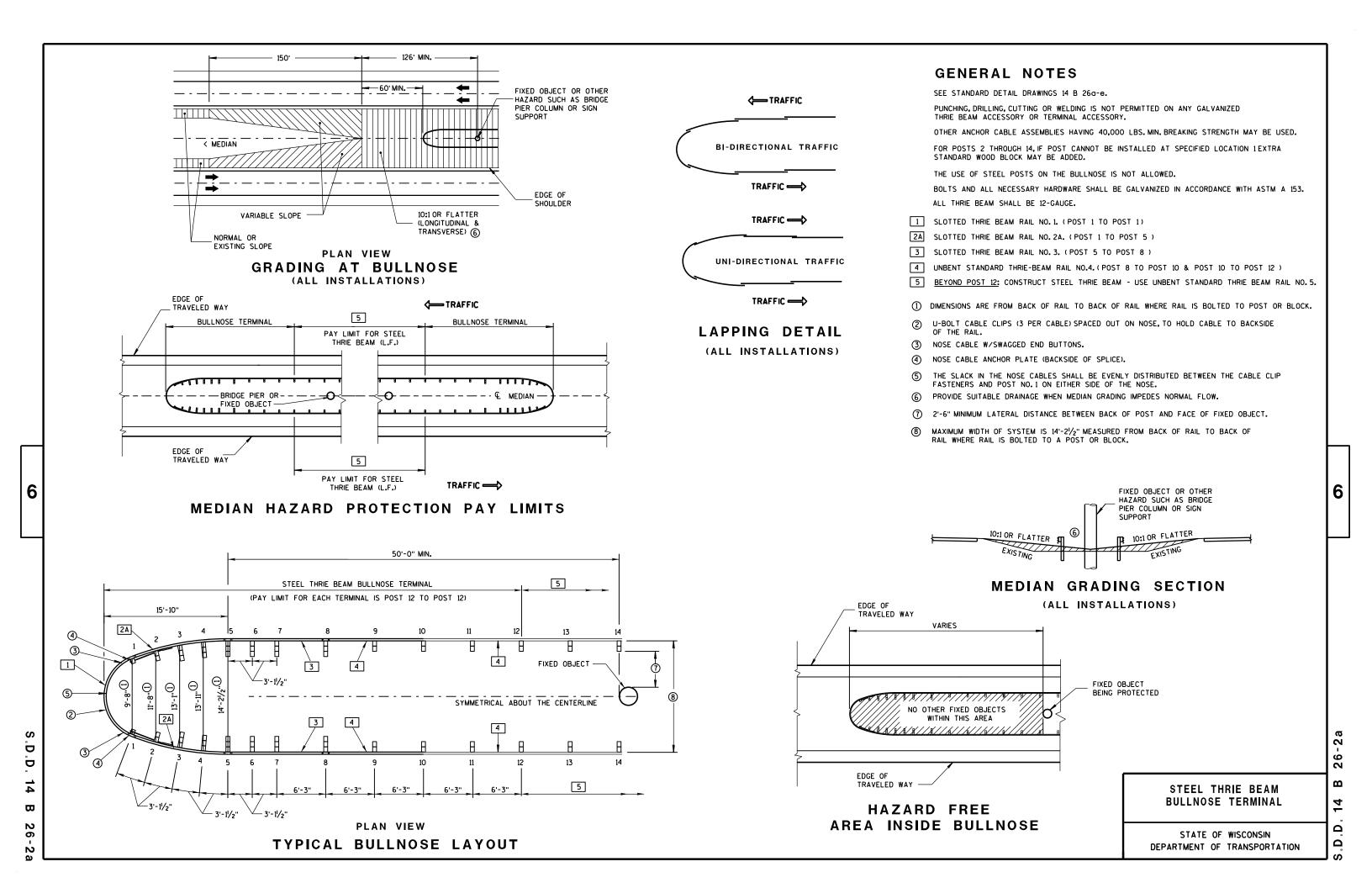
8/31/2012 ROADWAY STANDARDS DEVELOPMENT ENGINEER

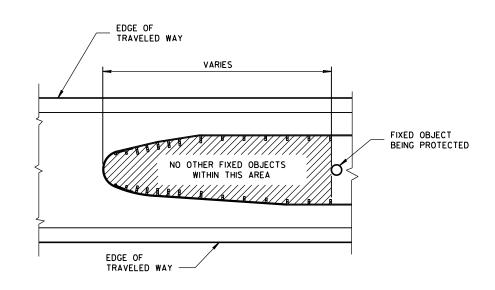
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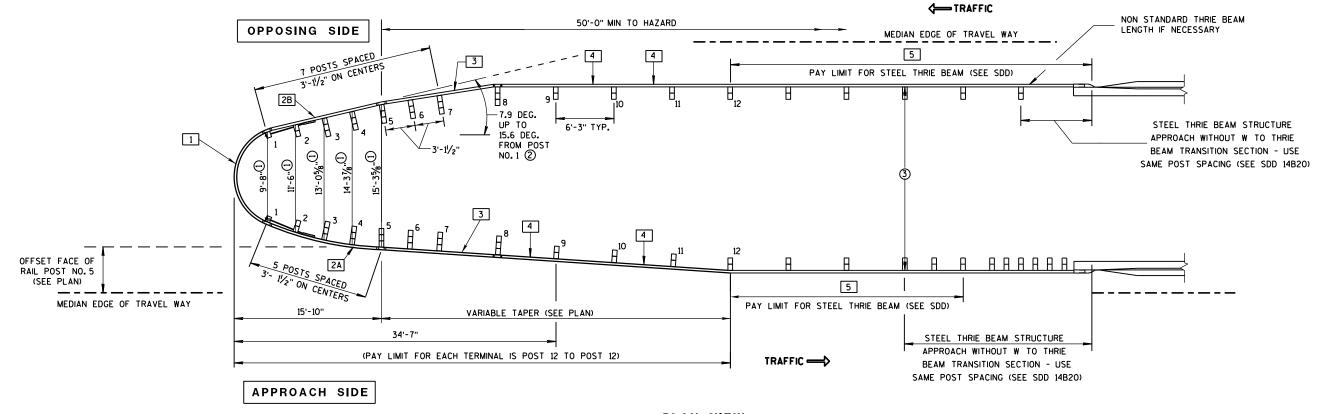
HAZARD FREE AREA INSIDE BULLNOSE

GENERAL NOTES

SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.

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

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



PLAN VIEW

WIDENED BULLNOSE DESIGN

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

STEEL THRIE BEAM **BULLNOSE TERMINAL**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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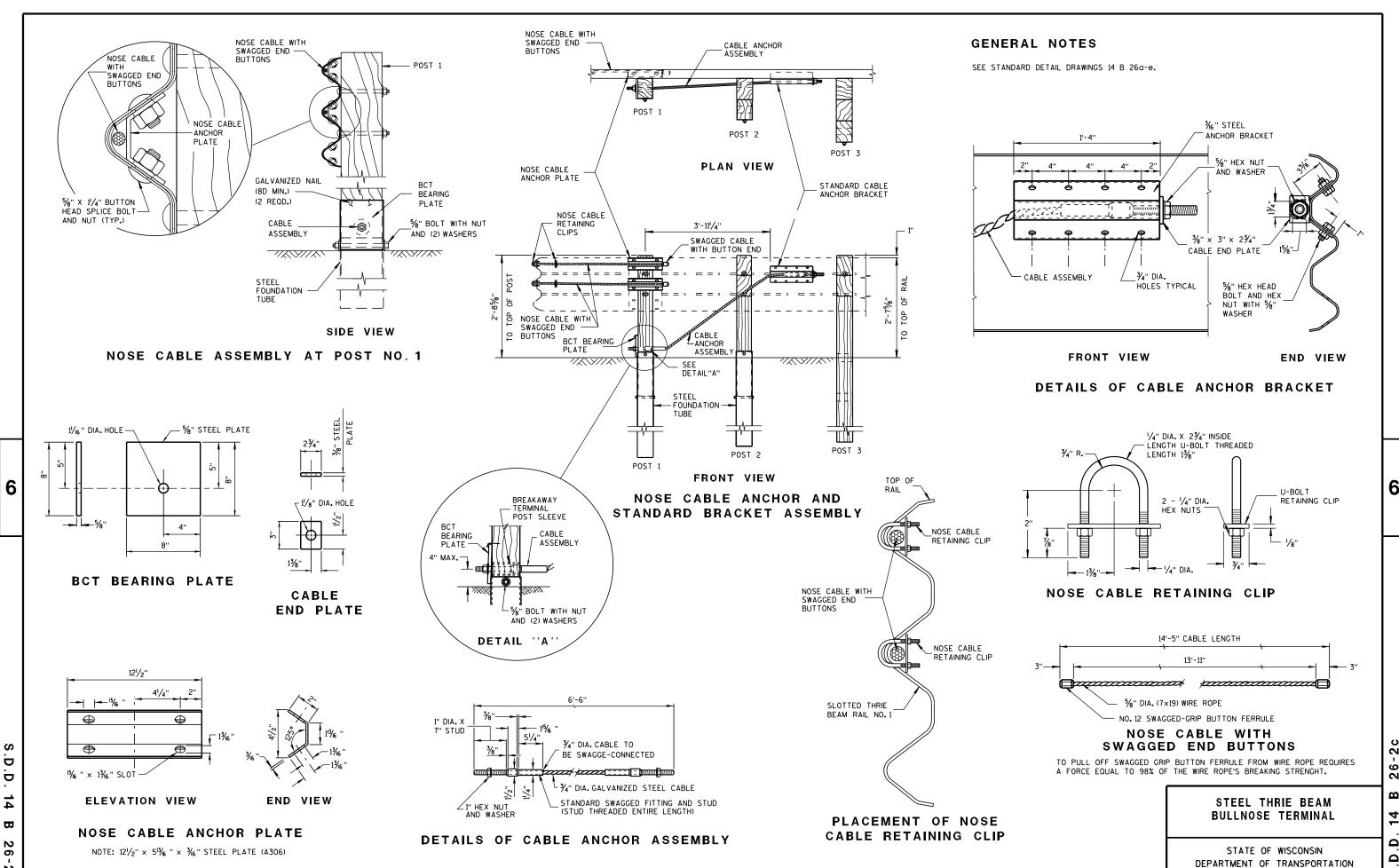
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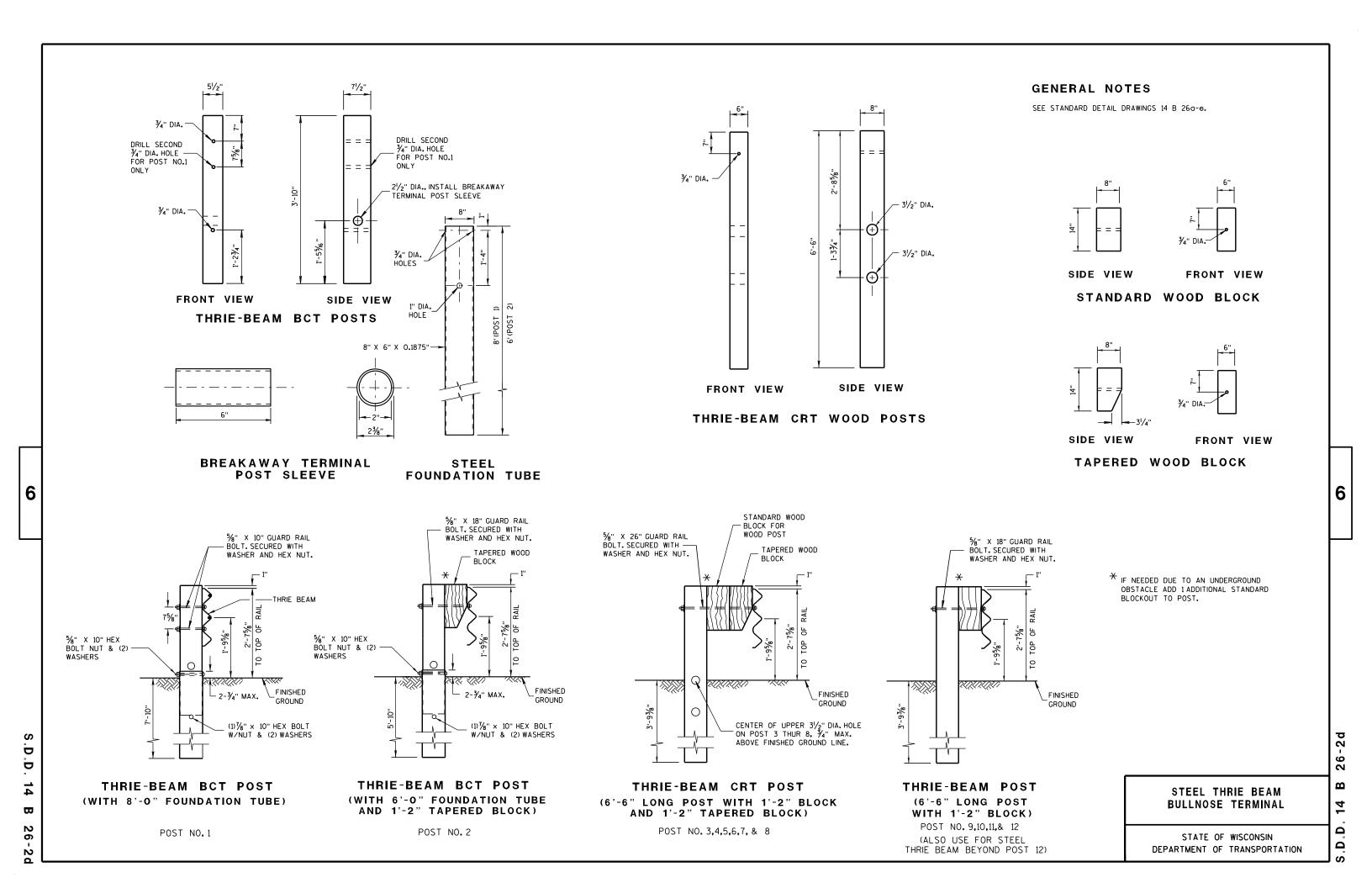
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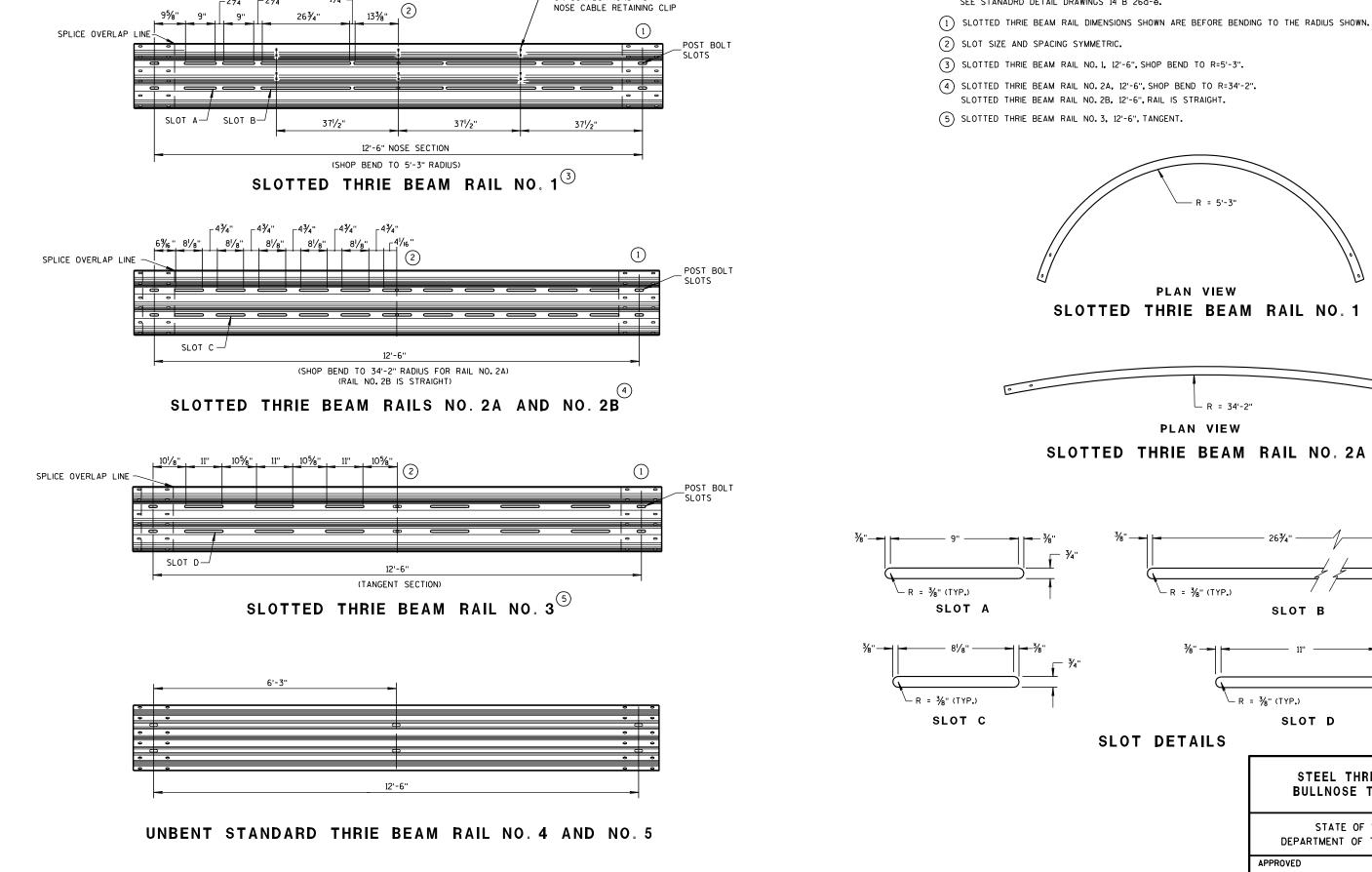
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3/6" DIA. X 1/2" SLOTS ON CORRUGATIONS FOR

NOSE CABLE RETAINING CLIP

SLOT B

GENERAL NOTES

SEE STANADRD DETAIL DRAWINGS 14 B 26a-e.



SLOT D

STEEL THRIE BEAM **BULLNOSE TERMINAL**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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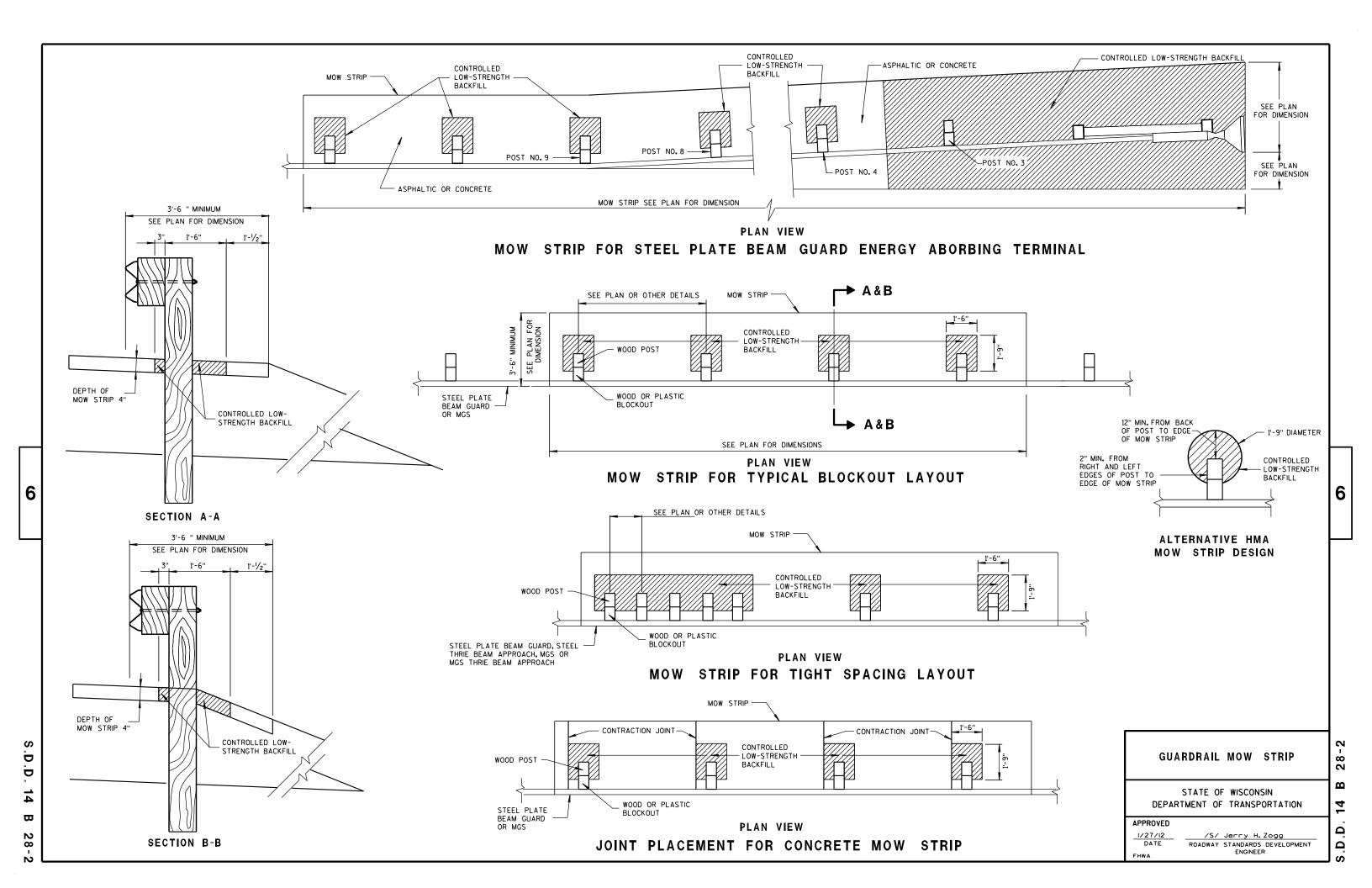
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER 9-16-2010

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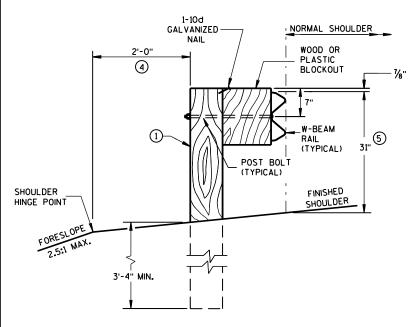
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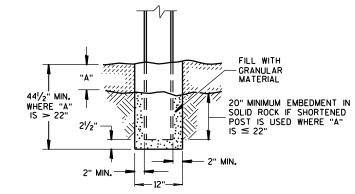
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

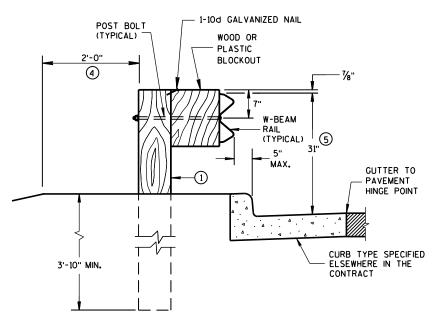


END VIEW

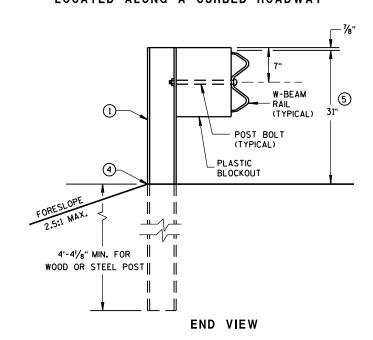
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



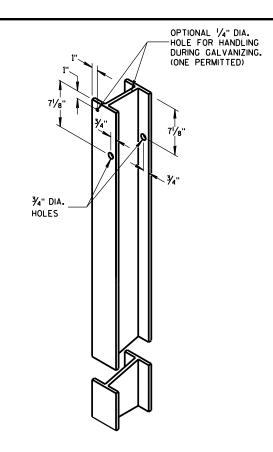
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



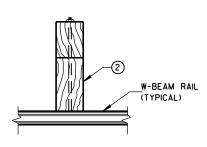
END VIEW
LOCATED ALONG A CURBED ROADWAY



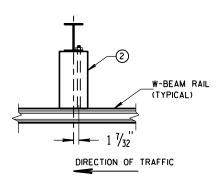
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



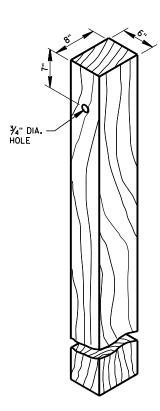
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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DEPARTMENT OF TRANSPORTATION

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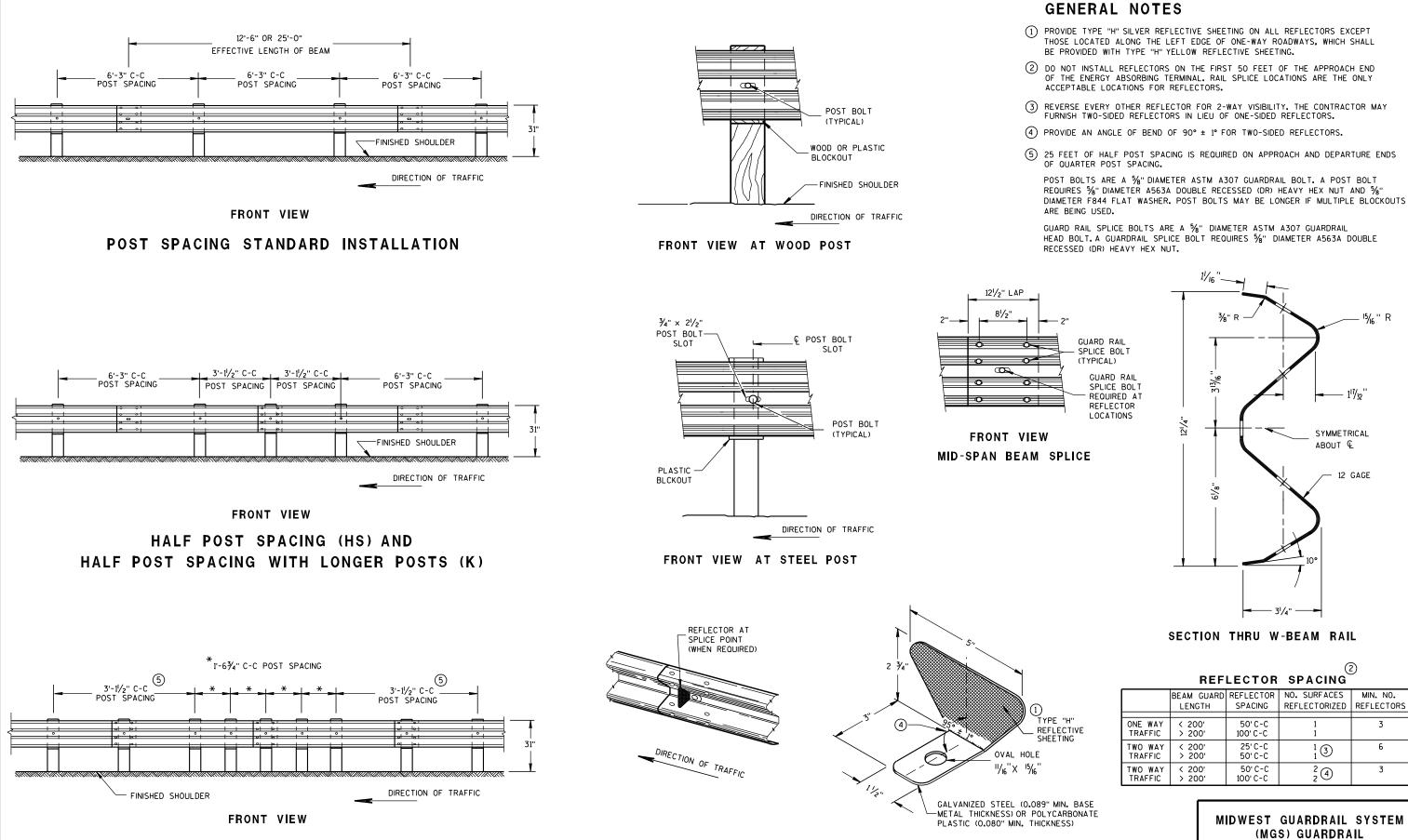
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ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

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QUARTER POST SPACING (QS)

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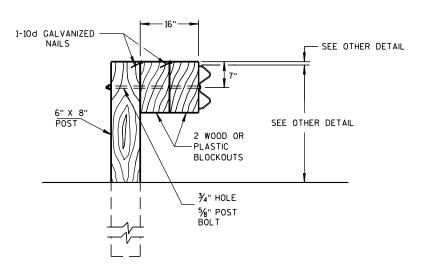
BEAM GUARD REFLECTOR NO. SURFACES MIN. NO.

SPACING | REFLECTORIZED | REFLECTORS 3 6 1 3 2 4 3

> MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

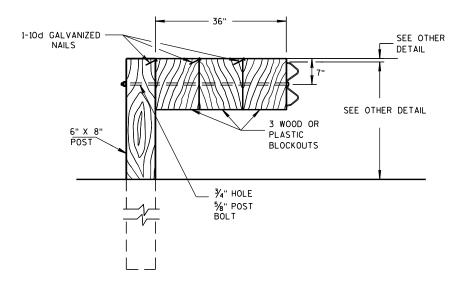
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DETAIL FOR 16" BLOCKOUT DEPTH

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.



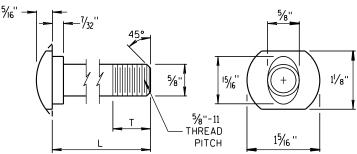
DETAIL FOR 36" BLOCKOUT DEPTH

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.

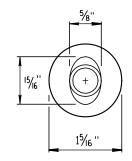
NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".

2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

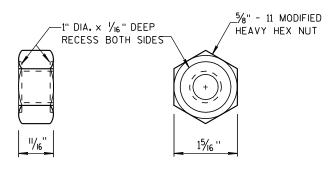


POST BOLT TABLE

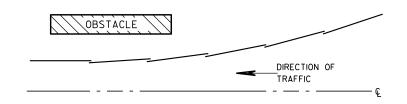
L	T (MIN.)
11/4"	1 1/8"
2"	13/4"
10"	4"
14"	4½ ₆ "
18"	4"
21"	4½ "
25"	4"



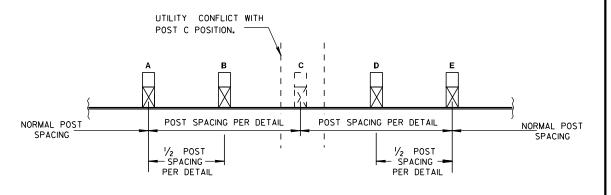
ALTERNATE BOLT HEAD



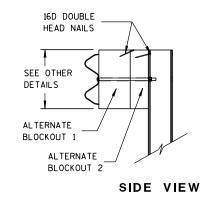
POST BOLT AND RECESS NUT

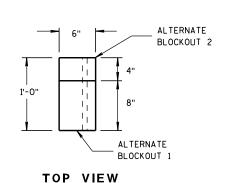


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

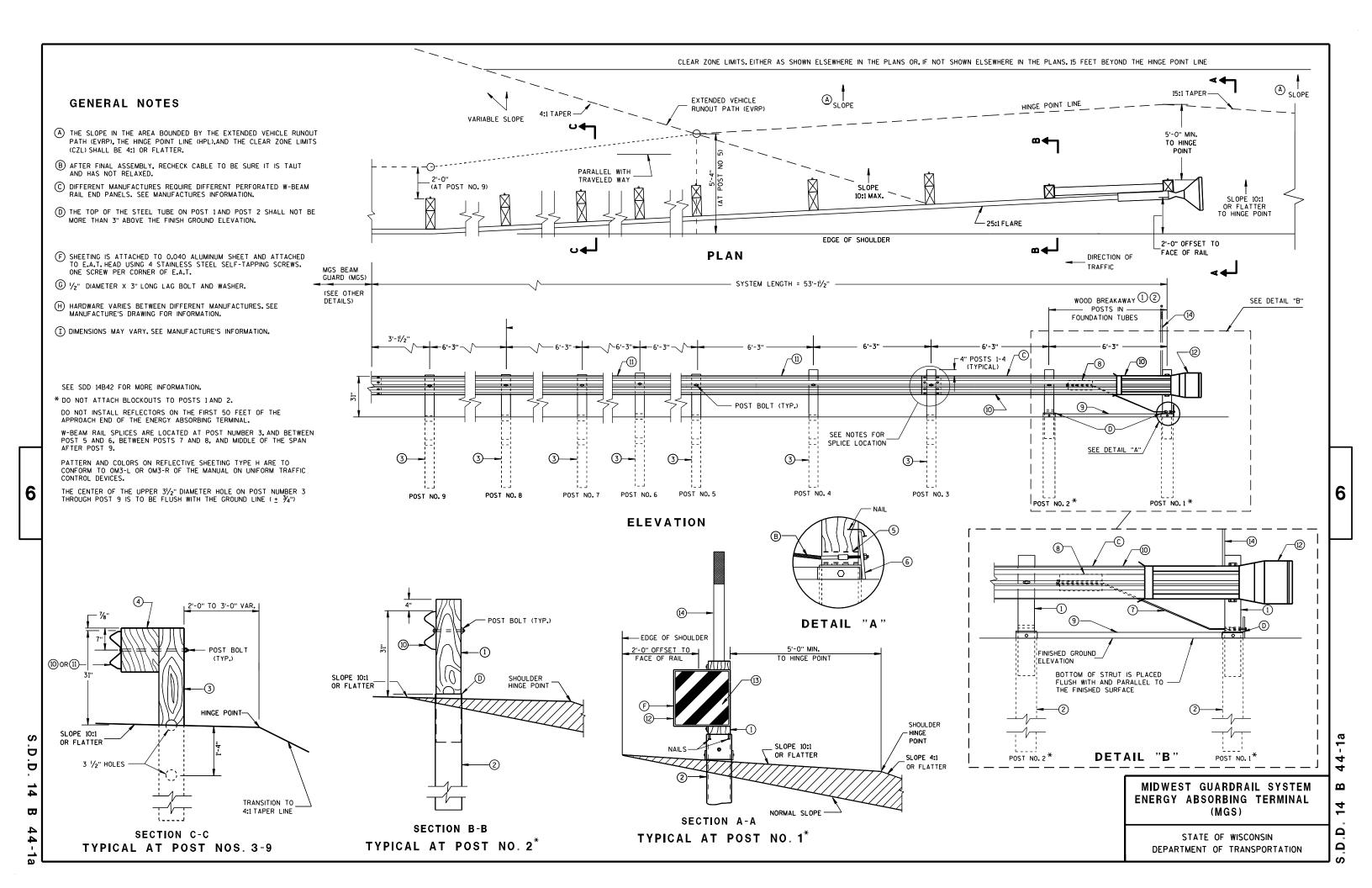
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

II/15/20II /S/ Jerry H. Zogg

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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GENERIC ANCHOR CABLE BOX

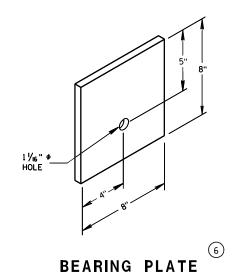
GENERIC GROUND STRUT

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PLAN VIEW

BILL OF MATERIALS

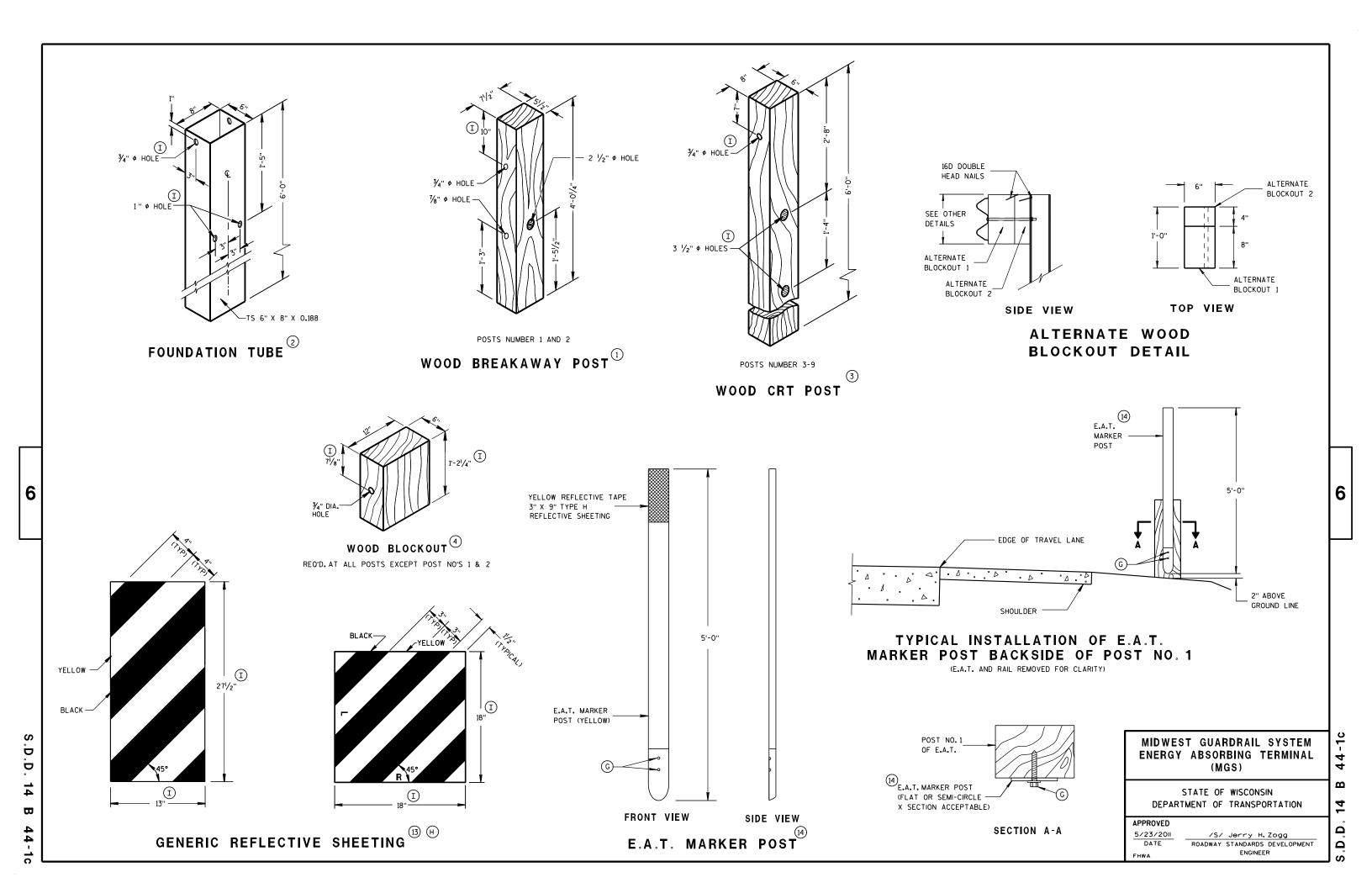
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
@	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(1)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(2)	END SECTION EAT
13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)

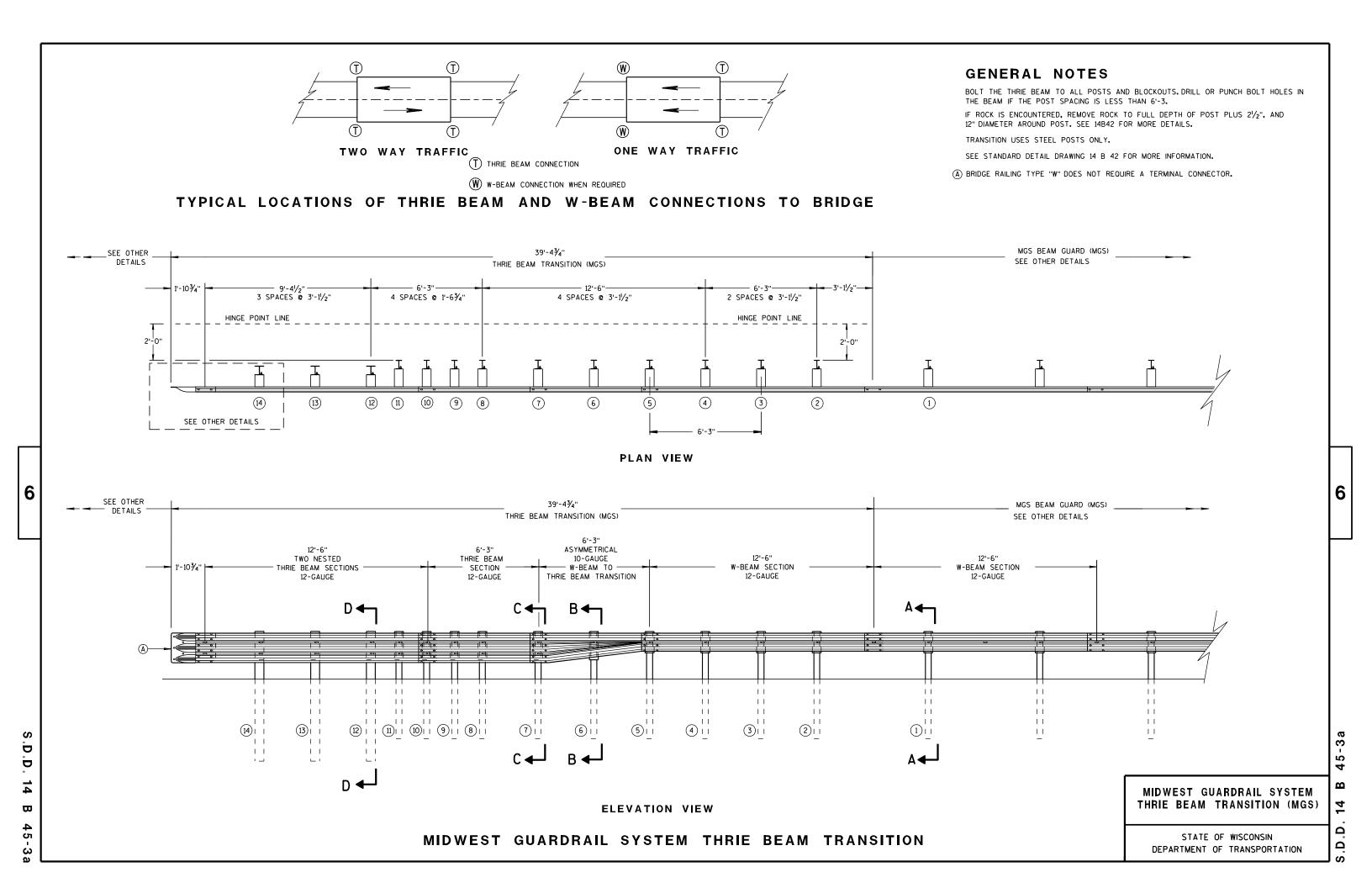


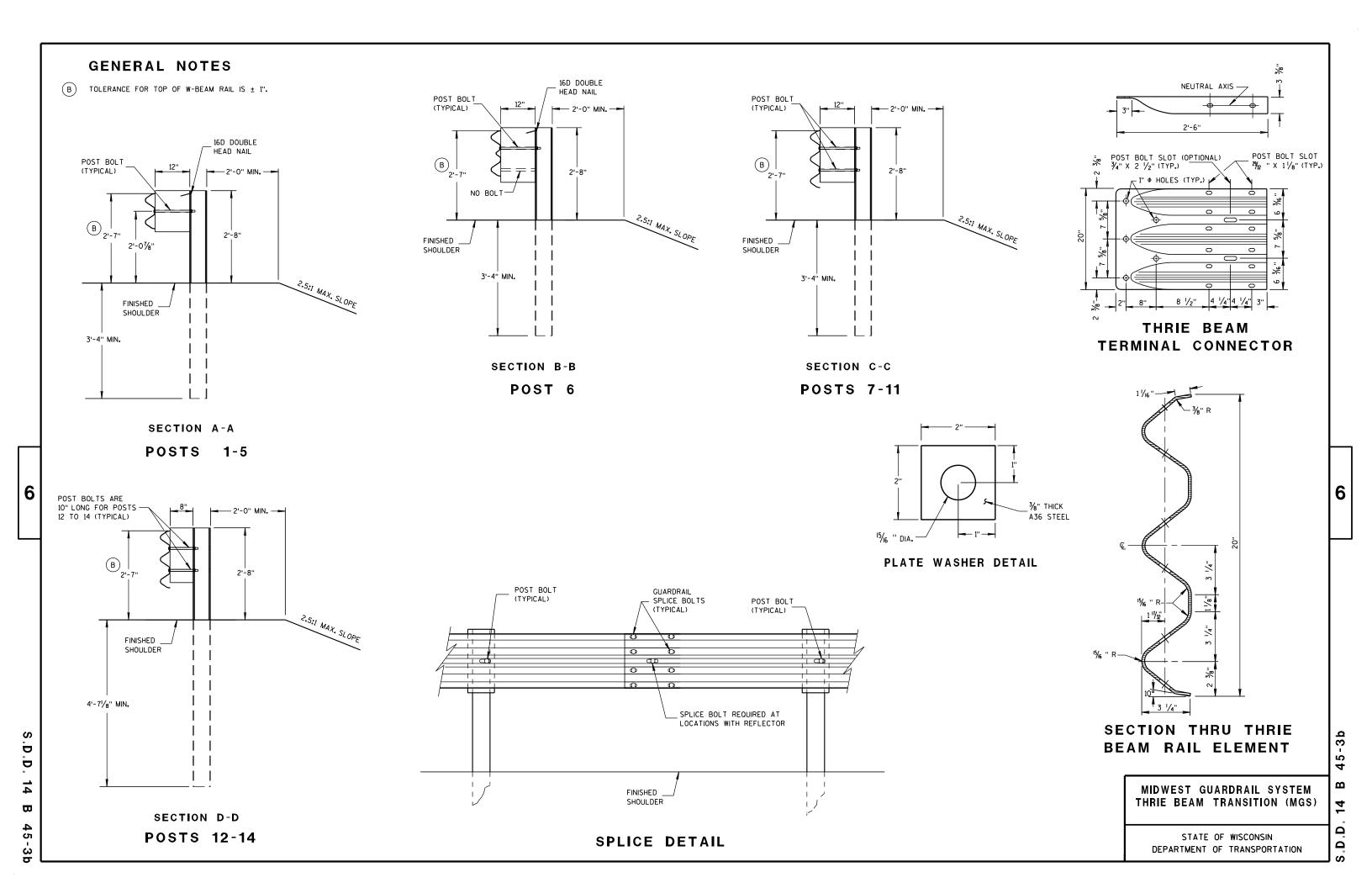
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

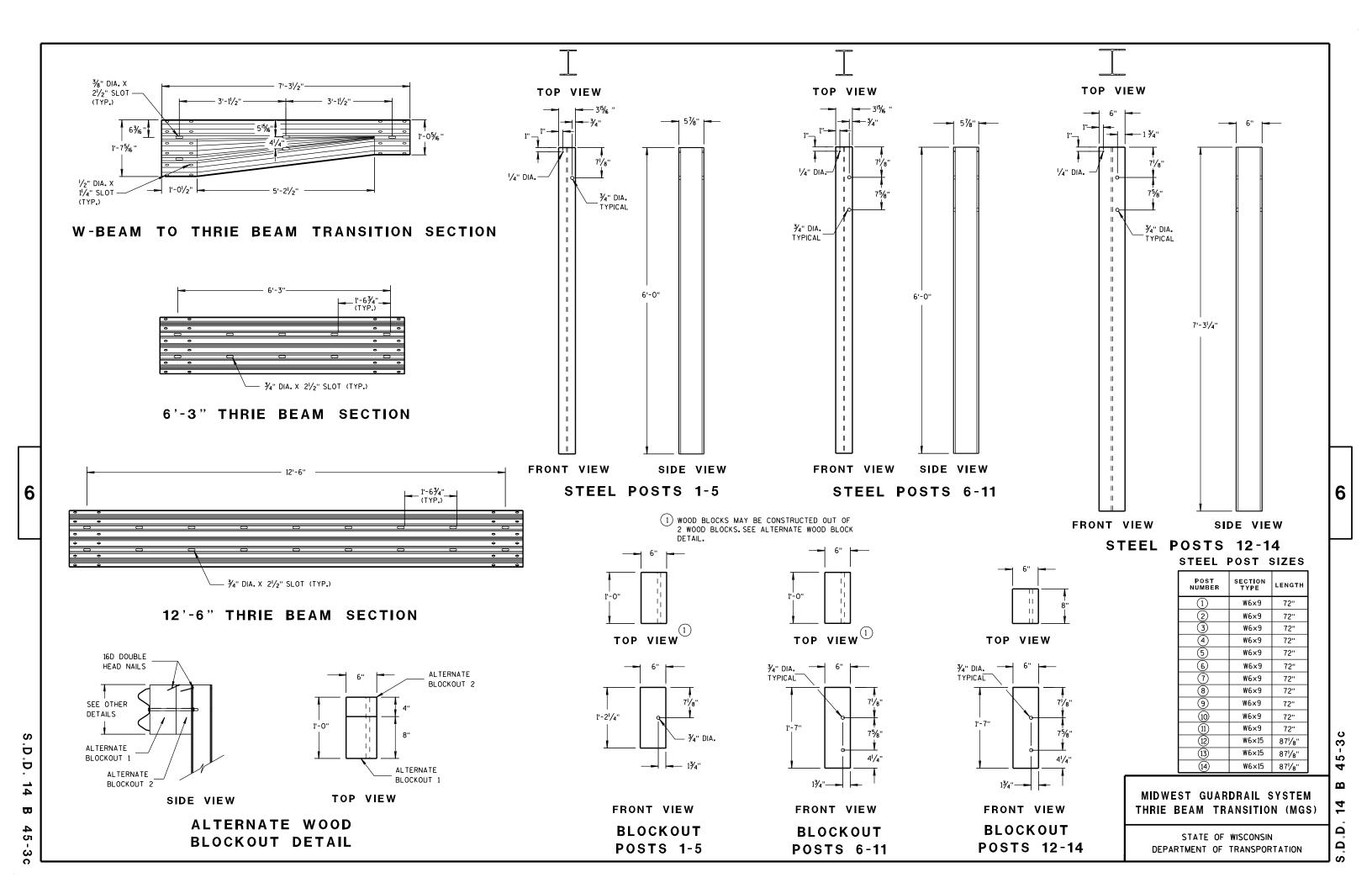
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

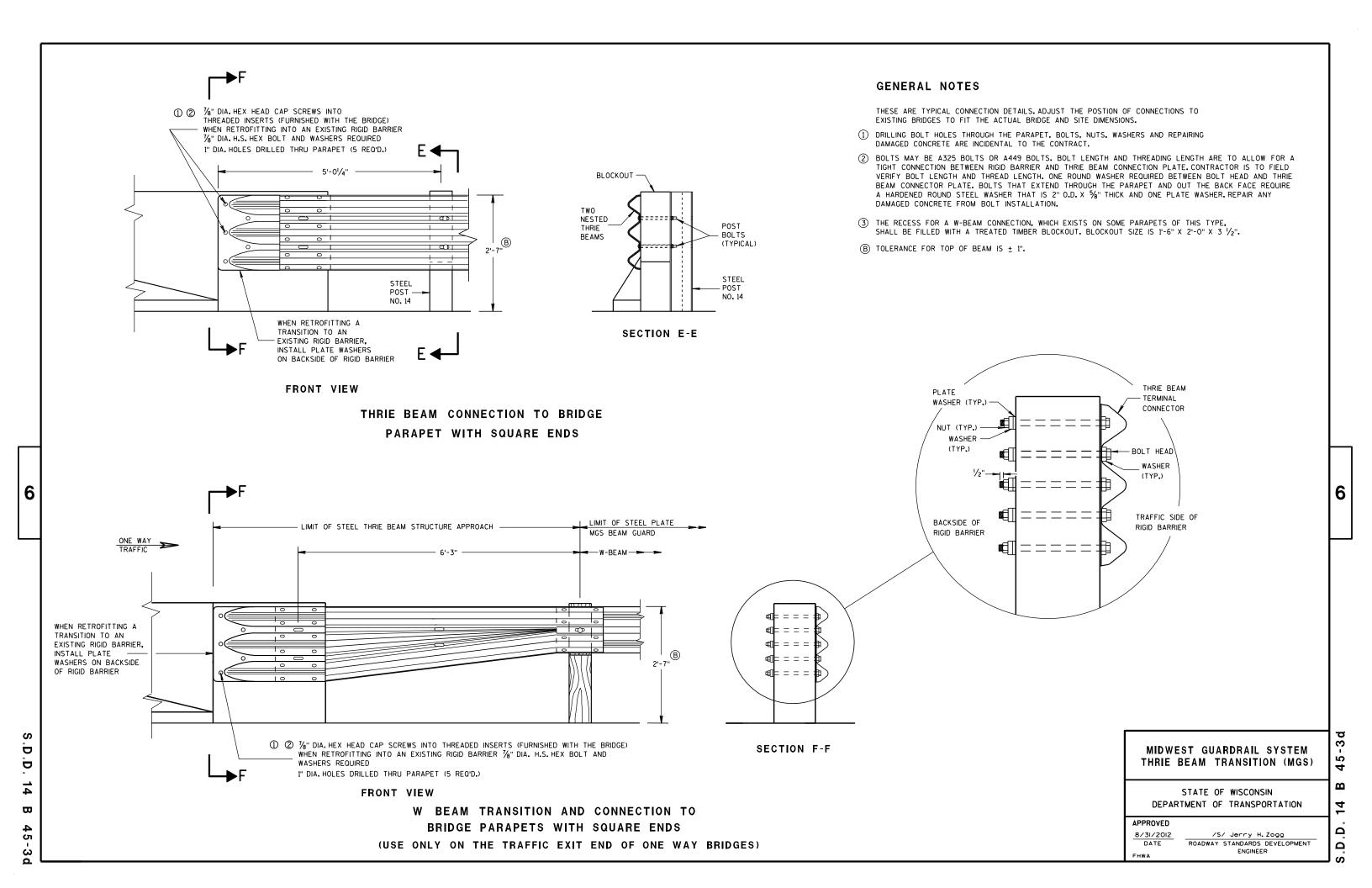
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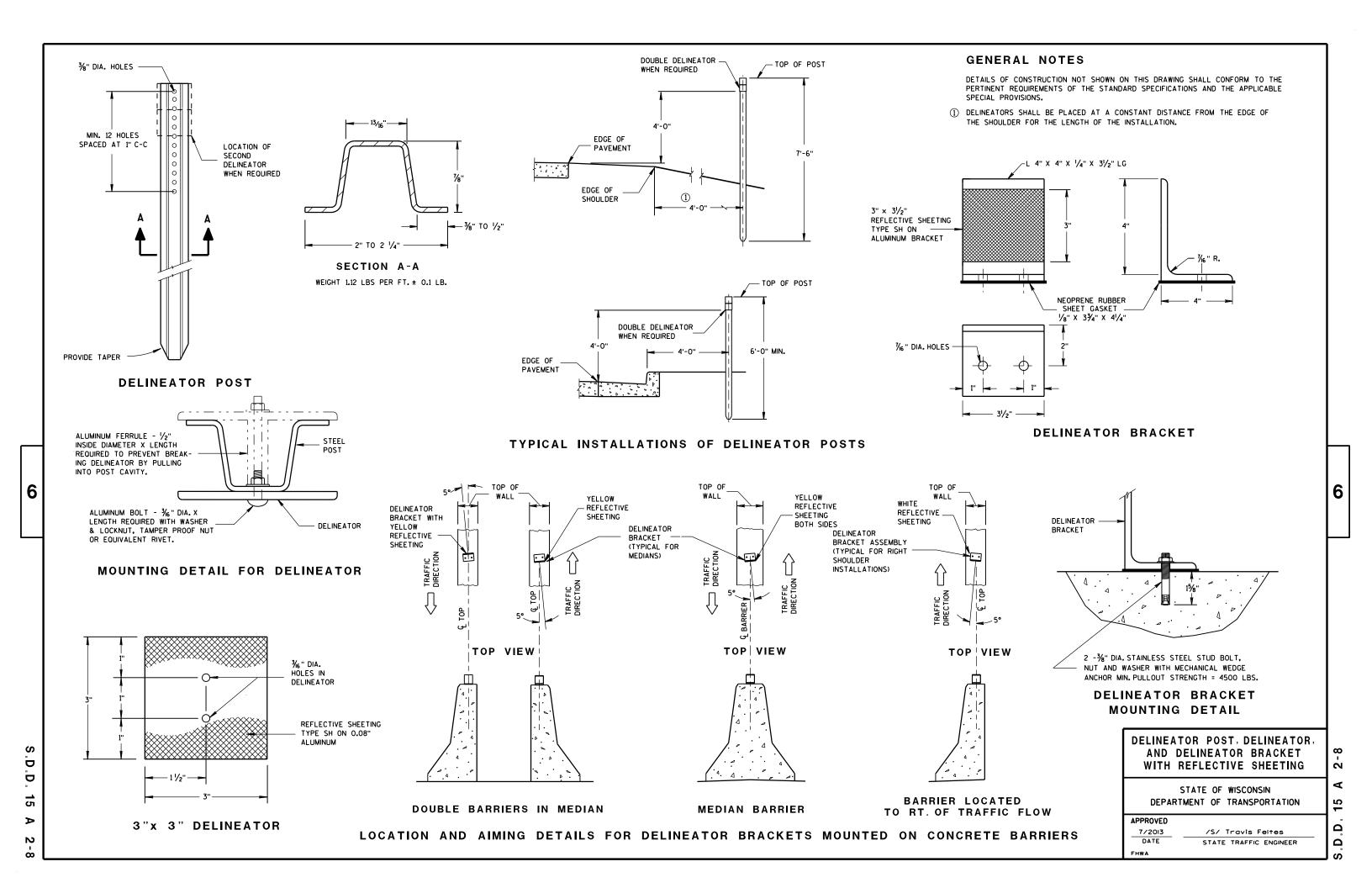














BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

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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.

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.

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

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

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

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

THE R11-2, R11-3 AND R11-4 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.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
RI1-2 SHALL BE 48" X 30".
RI1-4 AND RI1-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH
ATTACHED SIGN

(A) TYPE "A" WARNING LIGHT (FLASHING)

//// w

WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 /S/ Travis Feltes

DATE STATE TRAFFIC ENGINEER OF DESIGN

S.D.D. 15 C 3-2

GENERAL NOTES

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

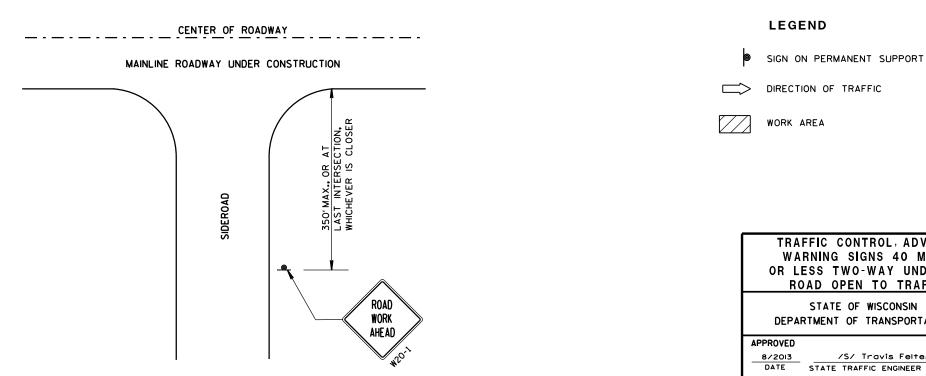
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48"

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.



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

6

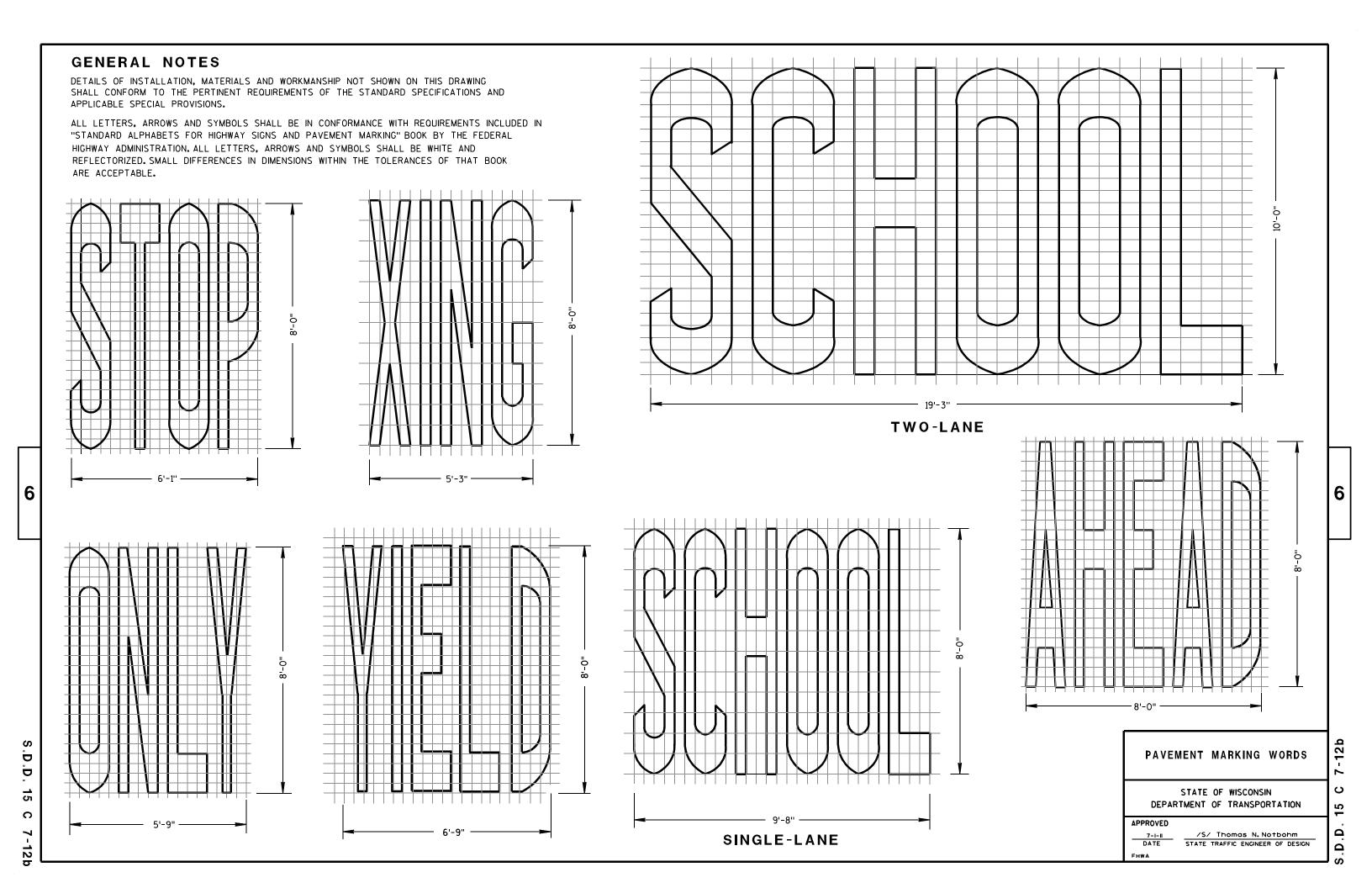
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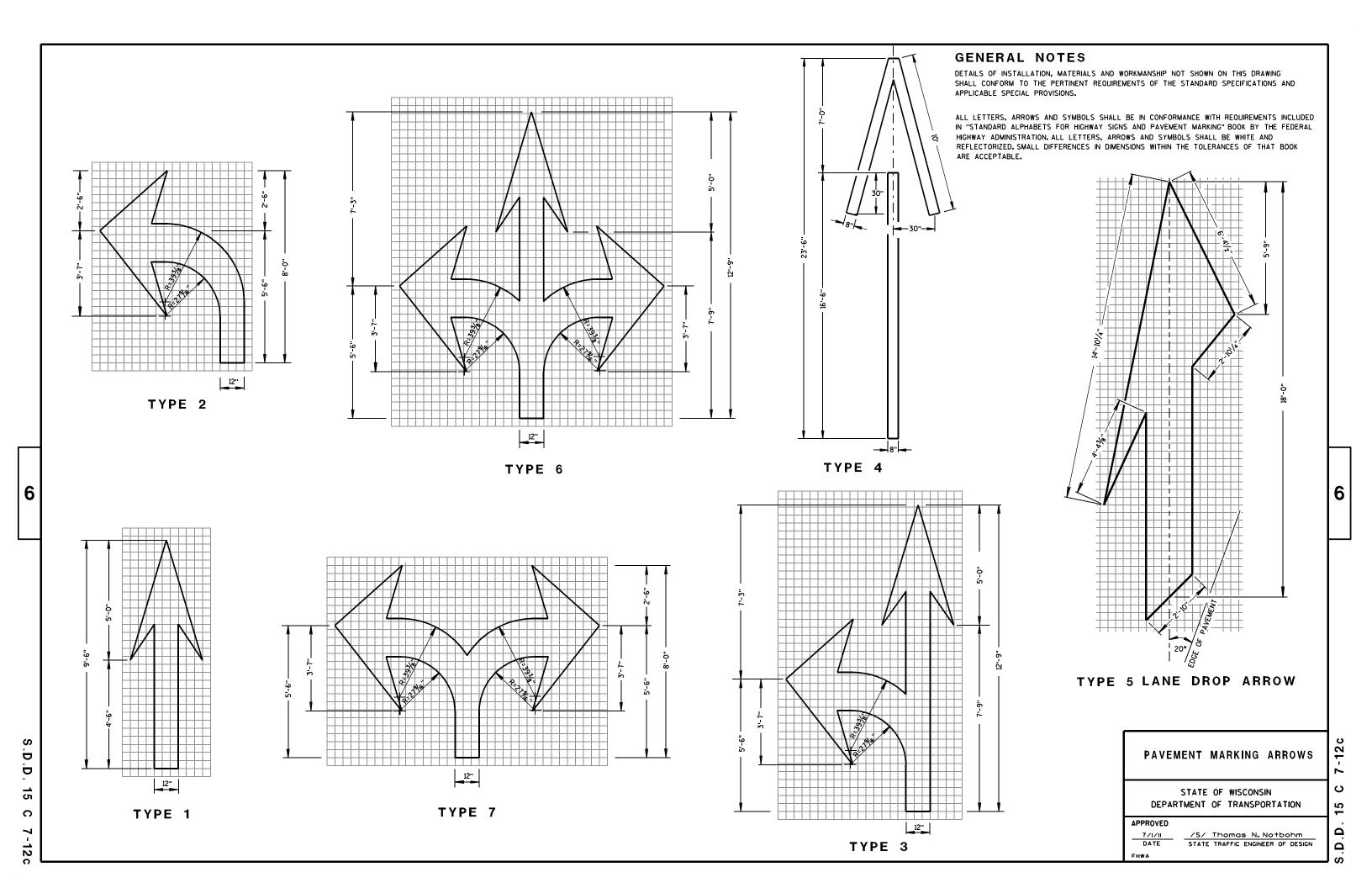
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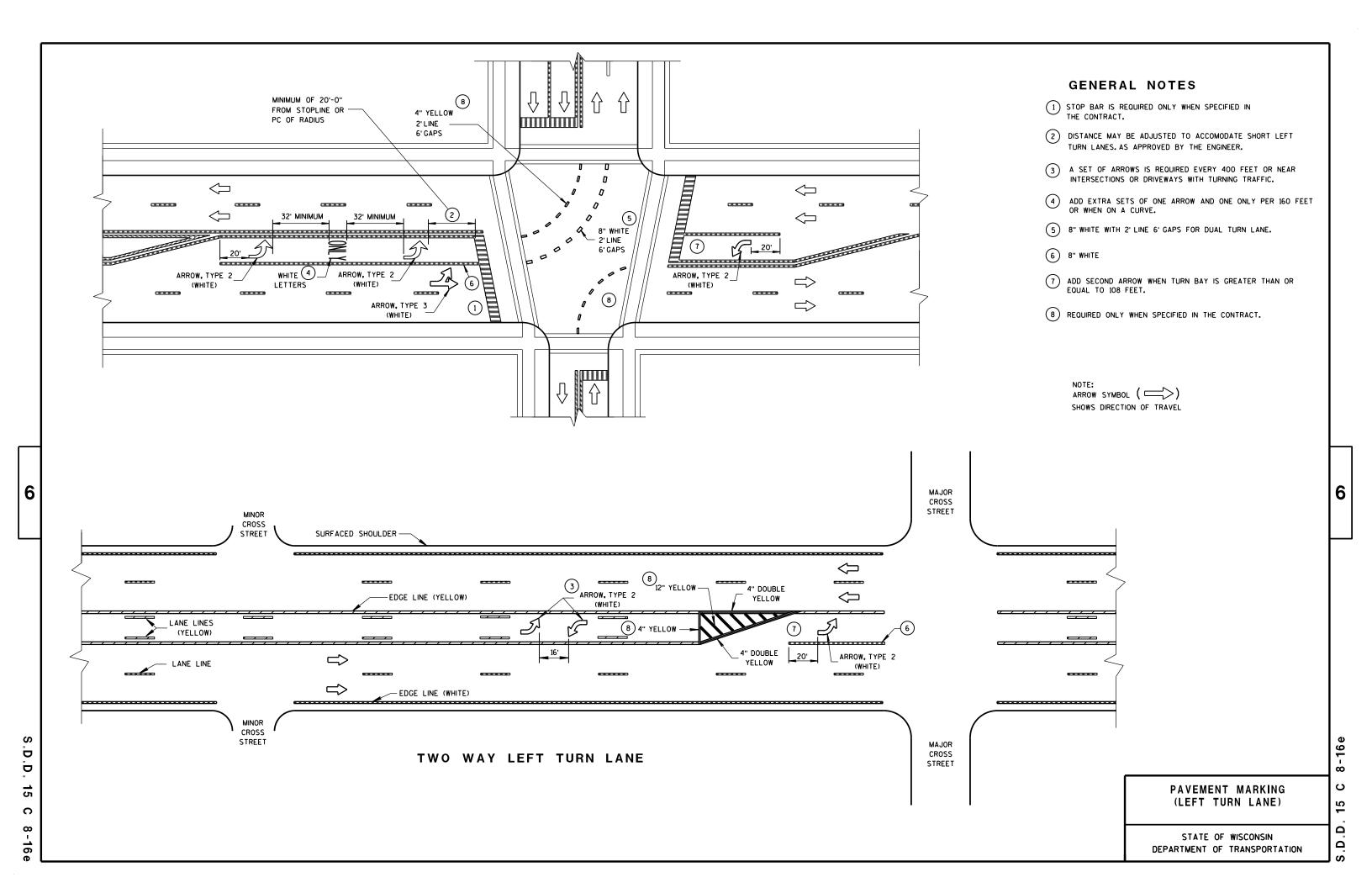
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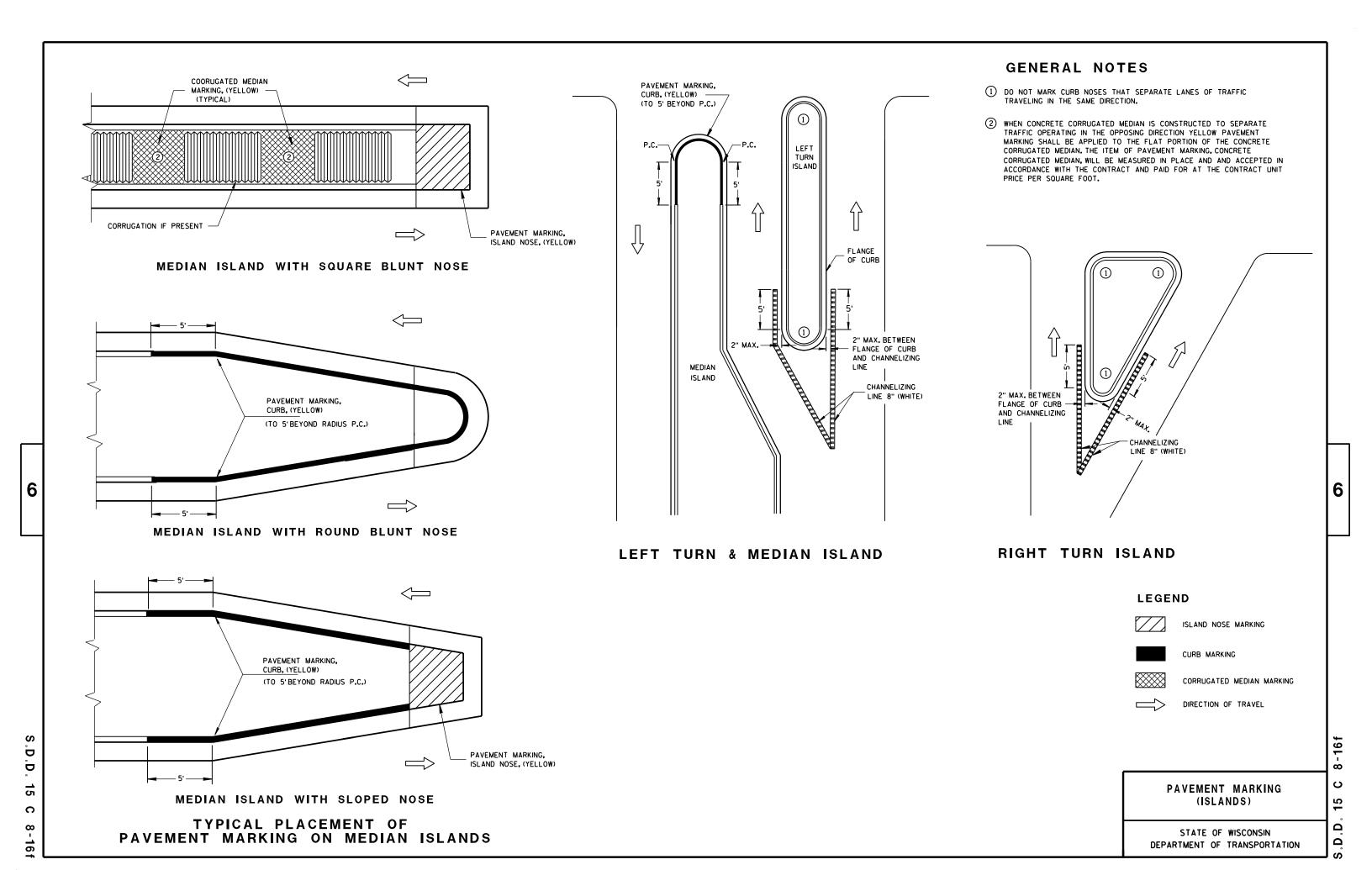


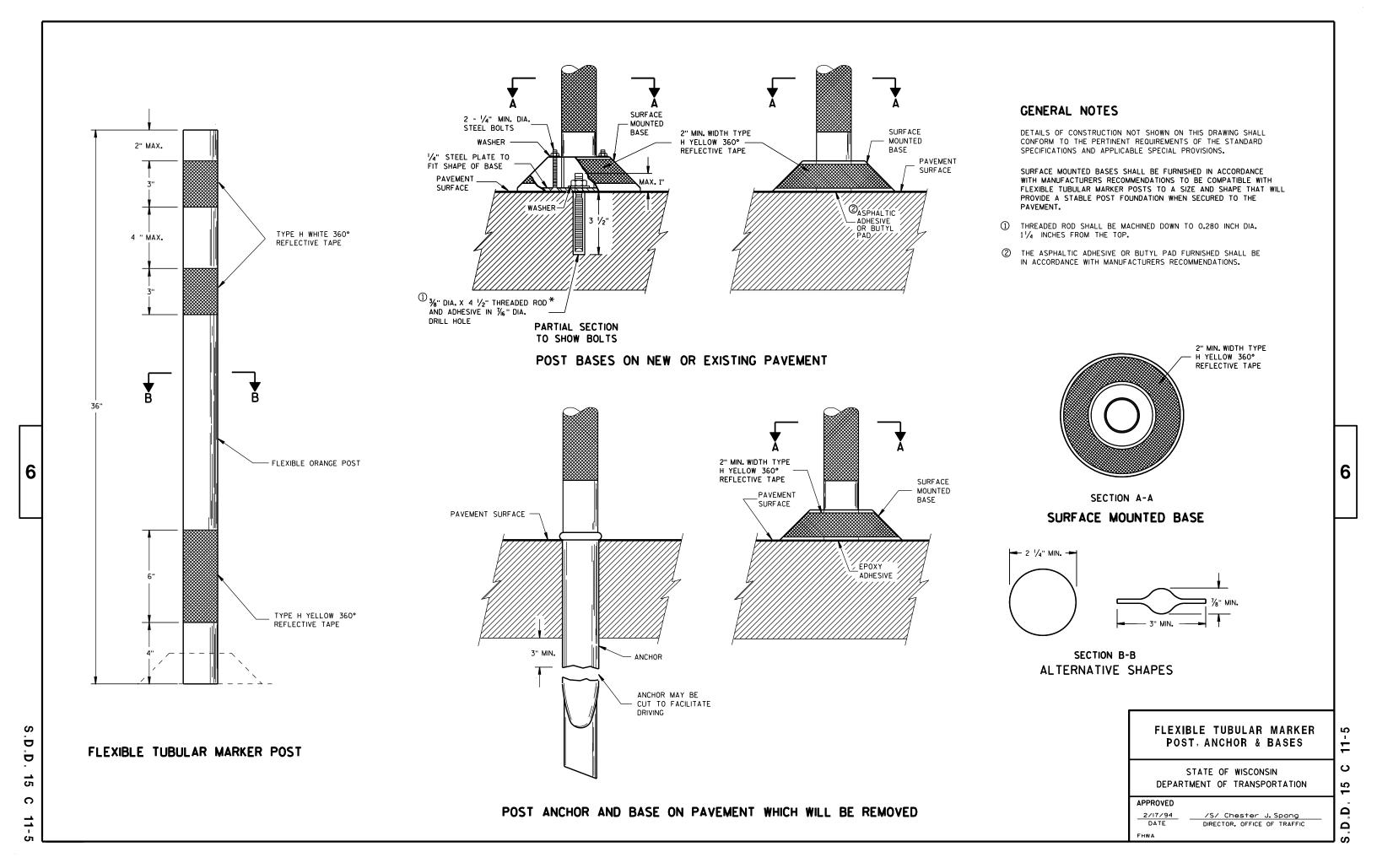


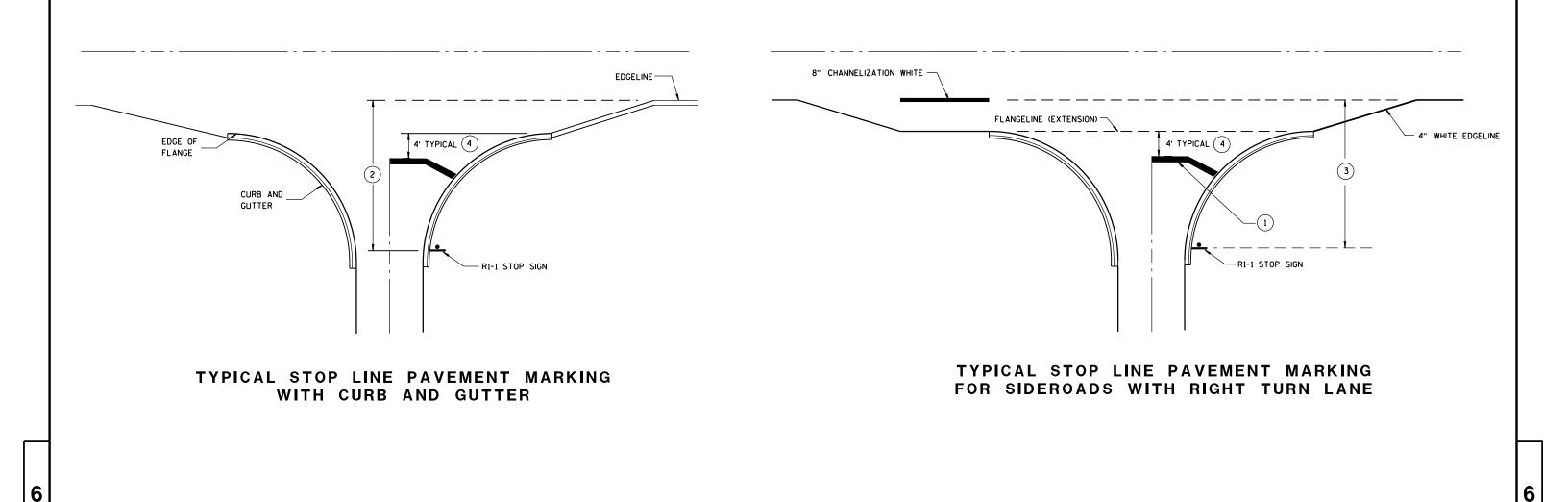


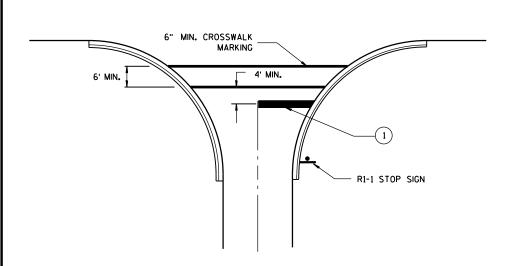




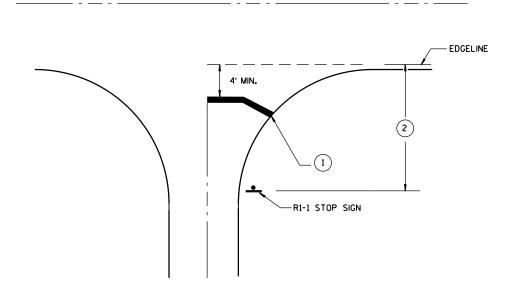








TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



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.

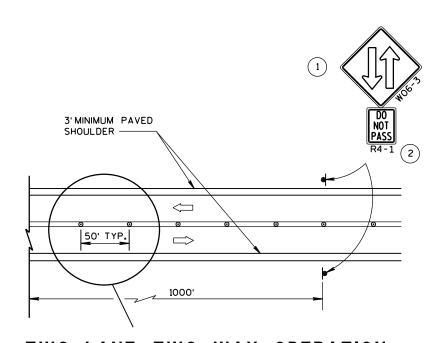
STOP LINE AND CROSSWALK PAVEMENT MARKING

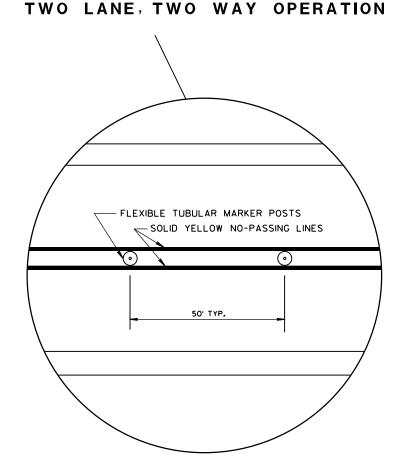
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
4/30/2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER
FHWA	

.D.D. 15 C 33-1

S.D.D.





GENERAL NOTES

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

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

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

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

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

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.





THE WO6-3 WITH THE WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE WO6-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN WO6-3 SIGNS.

CONVENTIONAL: 24"×30" FREEWAY AND EXPRESSWAY: 36"×48"

LEGEND

SIGN ON PERMANENT SUPPORT

DELINEATOR FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

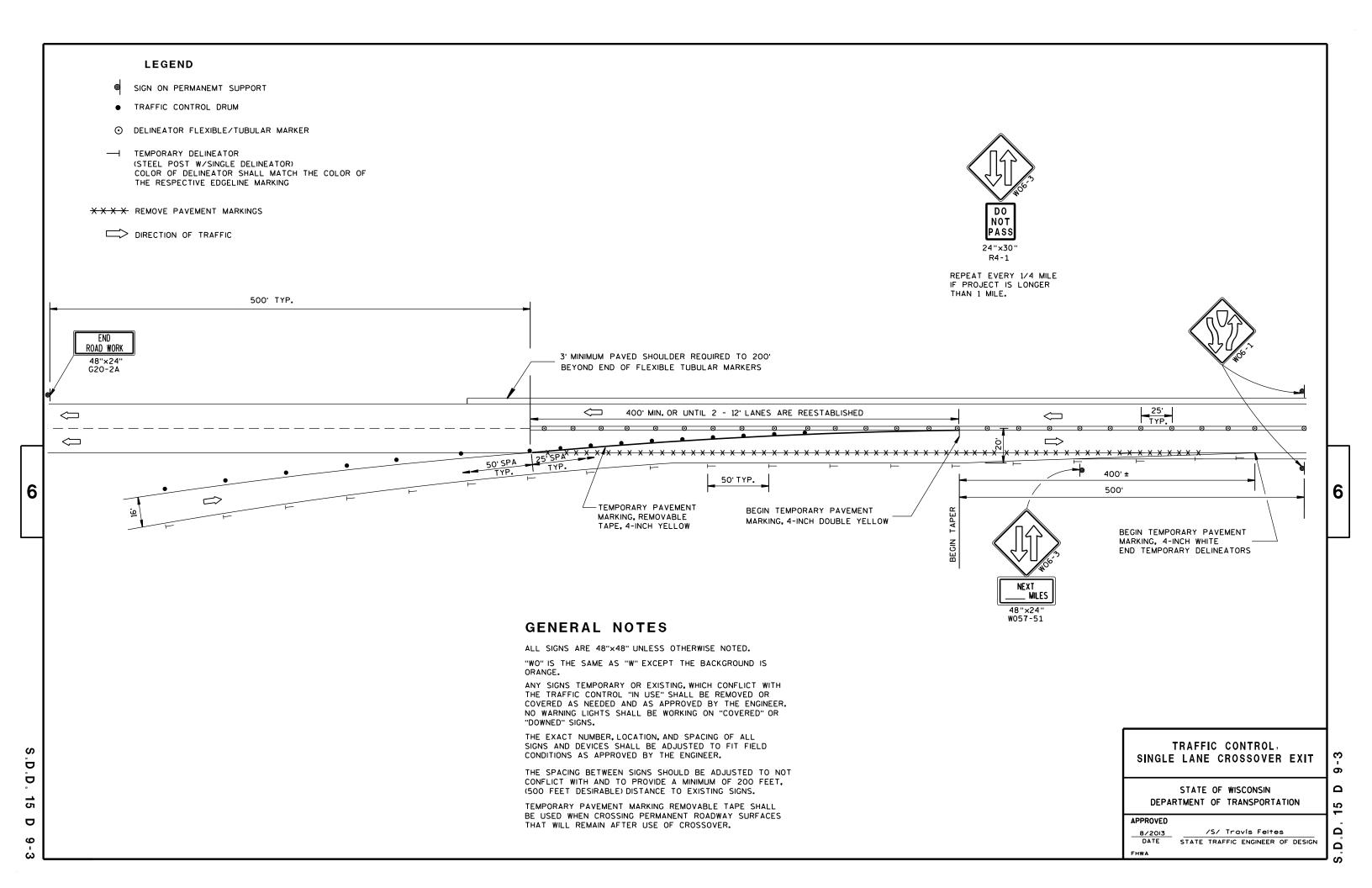
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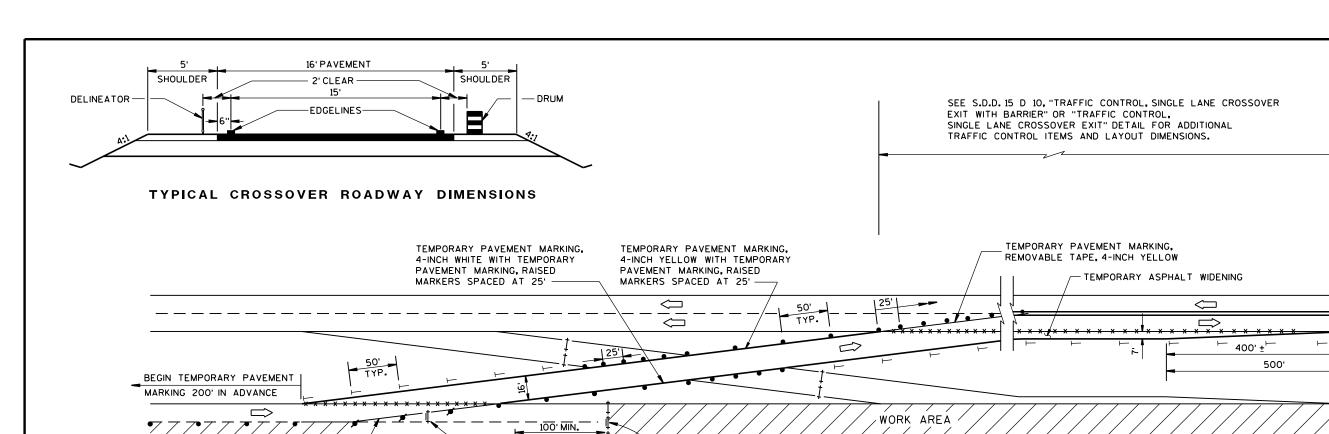
BAZOI3 /S/ Travis Feltes

DATE STATE TRAFFIC ENGINEER OF DESIGN /S/ Travis Feltes

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TYPE III BARRICADE

W01-6 48"×24"

TYPE III BARRICADE

TEMPORARY PAVEMENT

MARKING, REMOVABLE

TAPE. 4-INCH WHITE

GENERAL NOTES

RIGHT LANE CLOSED FOR

"TRAFFIC CONTROL, LANE CLOSURE" FOR TRAFFIC

A MINIMUM OF 500'.

800' DESIRABLE, SEE

CONTROL ITEMS.

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

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

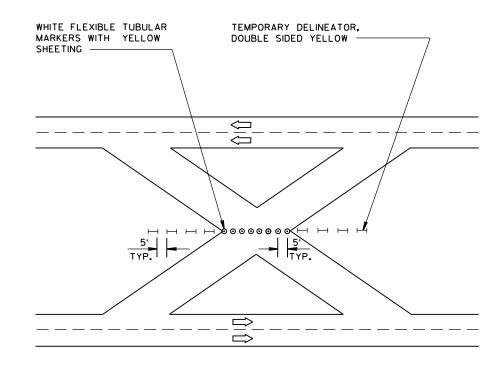
TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER AND TEMPORARY PAVEMENT MARKING WHERE USED.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.



PROTECTION OF CROSSOVER NOT IN USE WHEN CONSTRUCTION IS NOT TAKING PLACE

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TRAFFIC CONTROL DRUM WITH TYPE
"C" STEADY BURN LIGHT

TRAFFIC CONTROL DRUM

TEMPORARY DELINEATOR
(STEEL POST W/SINGLE DELINEATOR)
COLOR OF DELINEATOR SHALL MATCH THE COLOR
OF THE RESPECTIVE EDGELINE MARKING

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A TYPE "A" WARNING LIGHT (FLASHING)

TEMPORARY DELINEATOR (DOUBLE SIDED)

XXXX REMOVING PAVEMENT MARKINGS

DELINEATOR FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

WORK AREA

TRAFFIC CONTROL, SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 /S/ Travis Feltes

DATE STATE TRAFFIC ENGINEER OF DESIGN

S.D.D. 15 D 11-4

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TRAFFIC CONTROL DRUM

SIGN ON PERMANENT SUPPORT

(△) TYPE "A" WARNING LIGHT (FLASHING)

DIRECTION OF TRAFFIC

16

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

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

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

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

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

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.

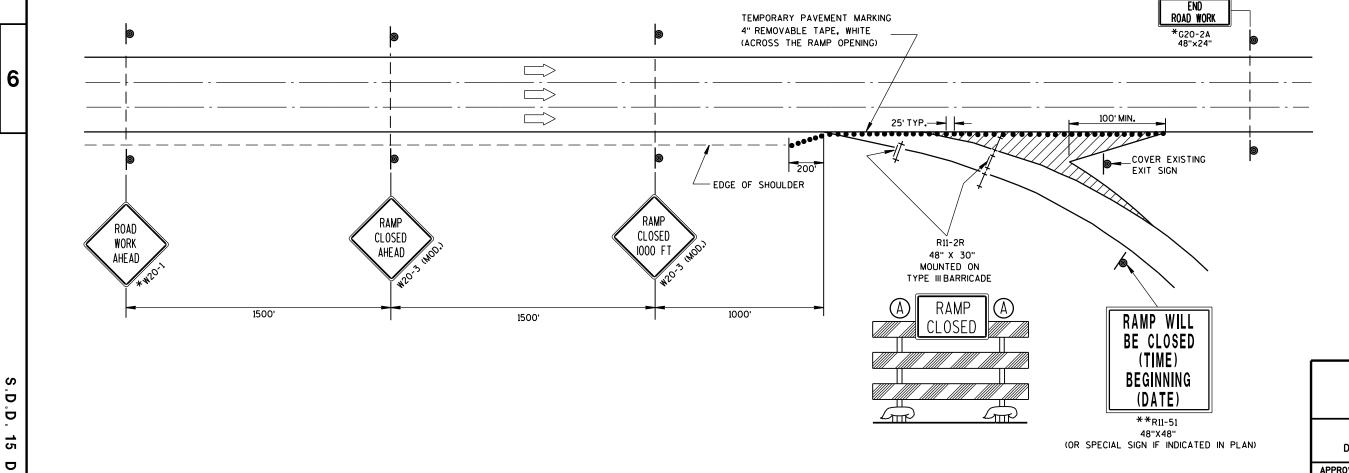
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROPOFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN THE WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

*W20-1AND G20-2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP WILL BE CLOSED" SIGN 10 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 8/2013

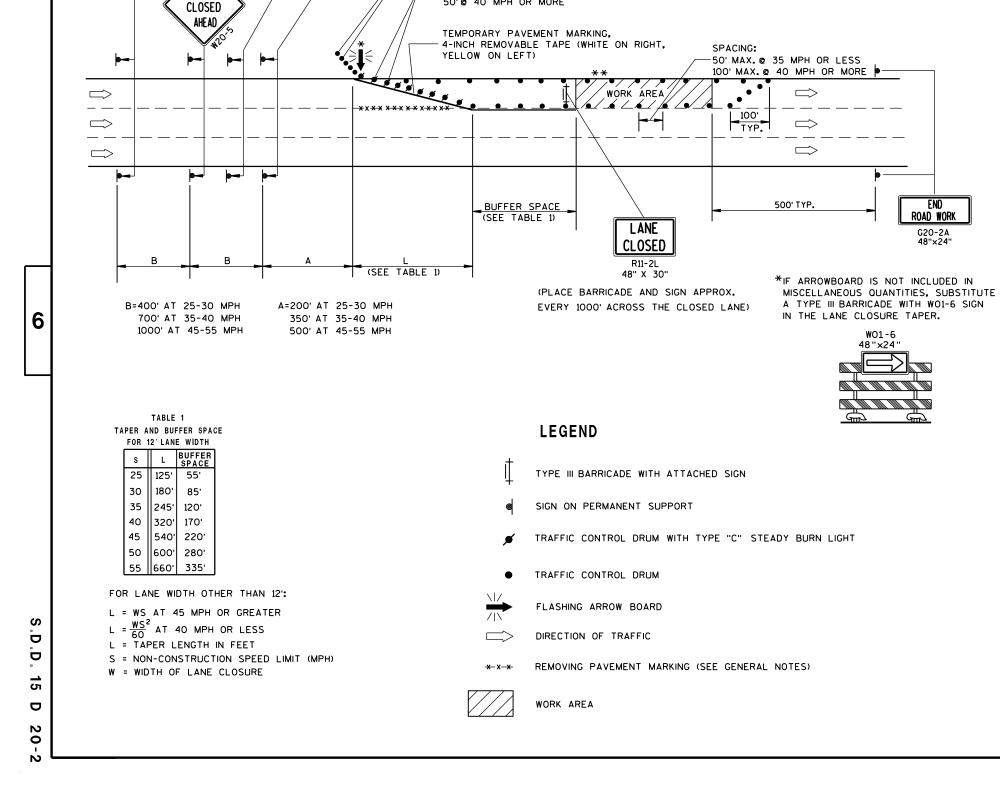
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DATE

STATE TRAFFIC ENGINEER OF DESIGN
FHWA

D.D. 15 D 16





(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

25' @ 35 MPH OR LESS 50' @ 40 MPH OR MORE

SPACING:

ROAD WORK

NEXT___MILES

G20-1

60" X 24"

AHEAD

GENERAL NOTES

**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC. IN ADVANCE OF THE WORK AREA.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE, FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A 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 IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W2O-1, G2O-1 AND G2O-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE 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.

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

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

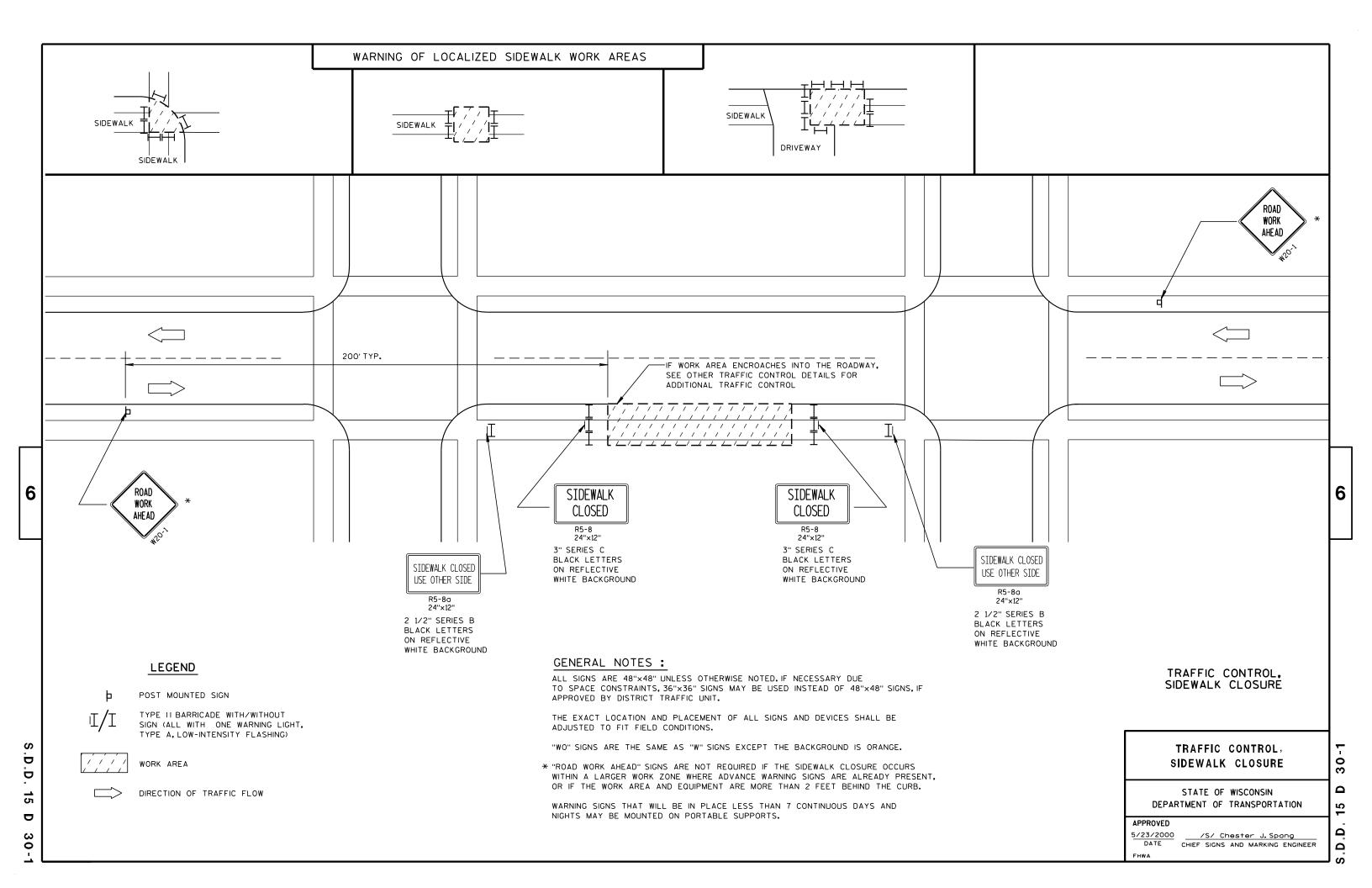
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

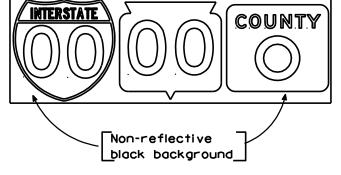
8/2013 /S/ Travis Feites

DATE TRAFFIC ENGINEER OF DESIGN

S.D.D. 15 D 2



TYPICAL ASSEMBLIES INDIVIDUAL COMPONENTS OF ASSEMBLIES JCT GENERAL NOTES COUNTY FRONTAGE ROAD COUNTY 1. All components within any individual assembly shall be the same "size". The following table illustrates that situation: M1-6 M1-5A M1-95 J1-3 M3'S & M4'S SIZE WEST EAST 2 21 X 15 24 X 12 36 X 36 30 X 21 30 X 15 M3-1 M3-2 M3-3 M3-4 2. For any assembly containing two or more route markers, the route markers SHALL be TRUCK TO BY-PASS **BUSINESS** DETOUR placed on a single high density overlay PLYWOOD panel. All other materials within the assembly M4-2 M4-3 M4 - 4 M4-6 M4-5 M4-8 can be either plywood or aluminum. 3. Certain marker heads require the component J2-2 J2-3 pieces to be the same color. As an example, all the components used with an M1-1 marker shall be blue. M5-51L M5-1 R M5-2L M5-51R M5-2R 4. All vertical J assemblies are given a sign code of JV. J3-3 WEST COUNTY FRONTAGE ROAD ablaJ13-1 J12-1 TO TO COUNTY EAST WEST



PLOT BY : DOTSJA

ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 3/06/00

SHEET NO:

M5'S & M6'S

21 X 21

30 X 30

PROJECT NO:

HWY:

J23-1

J33-1

J22-1

COUNTY:

J۷

(Typical Vertical

J- Assembly See Note 4)

PLOT DATE: 18-OCT-2005 10:56

PLOT NAME :

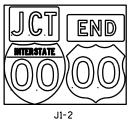
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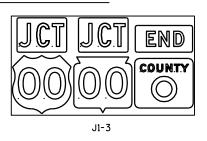
TYPICAL ASSEMBLIES



North

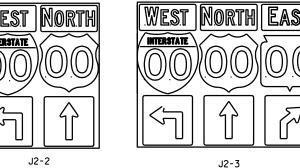
INTERSTATE

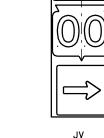




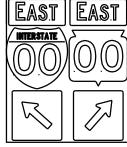


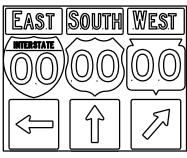






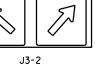
J2-1

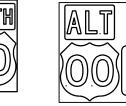


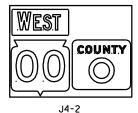


J3-3













EAST

J32-1

IMTERSTATE





J33-1





J23-1

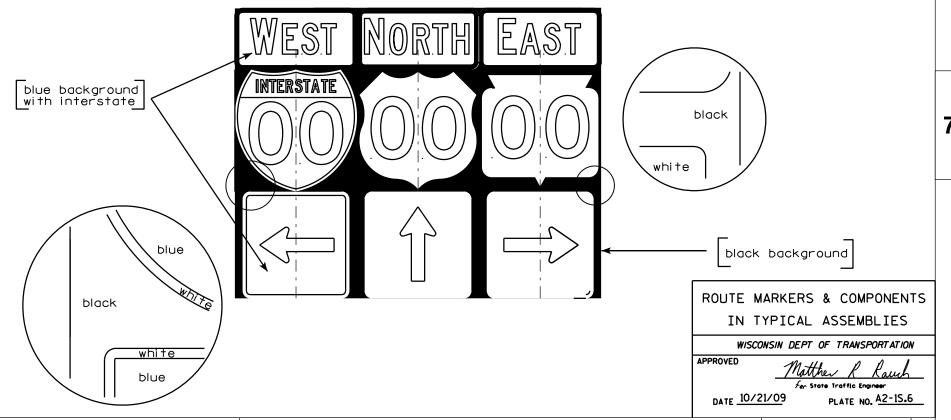


NOTES

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

Background - Black Non-reflective Message - see Note 5

- 3. Message Series See Note 5
- 4. Corners shall be square since base material is plywood.
- 5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- 6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
- 7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
- 8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- 9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



PROJECT NO:

J13-1

COUNTY

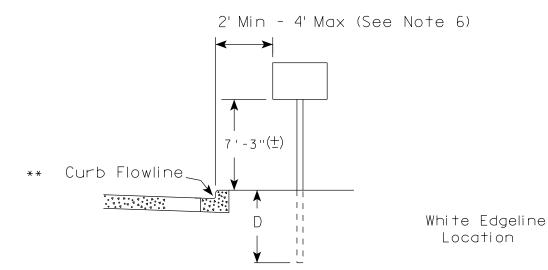
FRONTAGE

ROAD

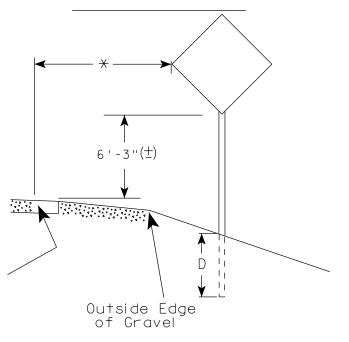
SHEET NO:

Ε

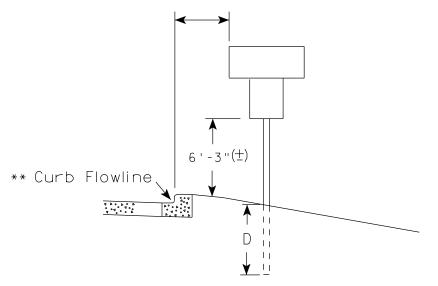
URBAN ARFA



RURAL AREA (See Note 2)



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



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

** 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, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (+) or 6'-3" (+) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) 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" (+).
- 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 stop signs (R1-1F) shall be mounted at a height of 5'-3" (+) or as directed 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) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

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

APPROVED

for State Traffic Engineer

DATE 9/30/13

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN COUNTY:

PLOT DATE: 30-SEP-2013 13:25

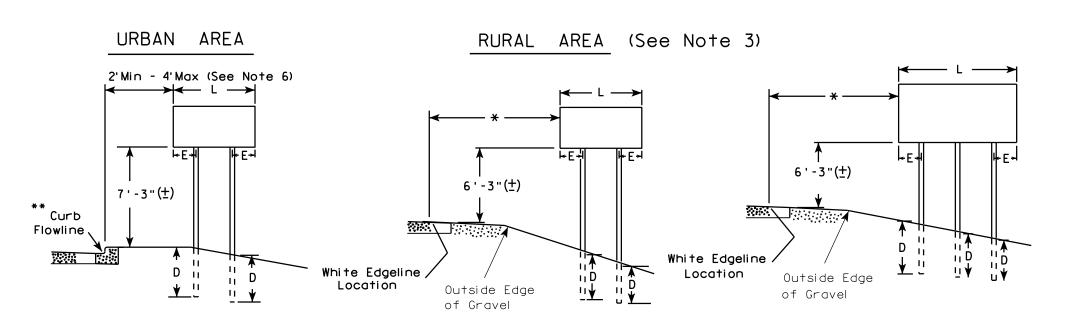
PLOT NAME :

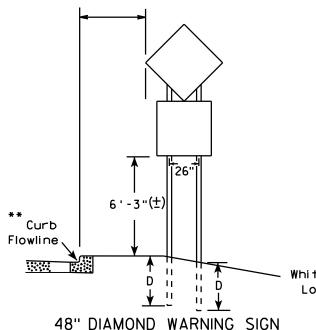
PLOT SCALE: 99.237937:1.000000

SHEET NO: WISDOT/CADDS SHEET 42

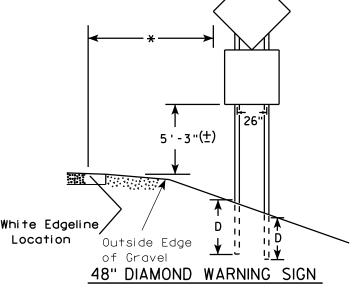
GENERAL NOTES

- 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 (A4-5) is 7'-3" (\pm) or 6'-3" (\pm) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding stop signs (R1-1F) 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) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (\pm).
- * 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 or 20 S.F. or less in area.





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



COUNTY:

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

HWY:

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

POST EMBEDMENT DEPTH

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

APPROVED Matther

PLATE NO. A4-4.12 DATE 9/30/13

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

PROJECT NO:

PLOT DATE: 30-SEP-2013 13:27

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

PLOT NAME :

(TWO POSTS REQUIRED) Ε Greater than 48" * * * 12" Less than 60" L/5 60" to 120"

SIGN SHAPE OTHER THAN DIAMOND

WISCONSIN DEPT OF TRANSPORTATION

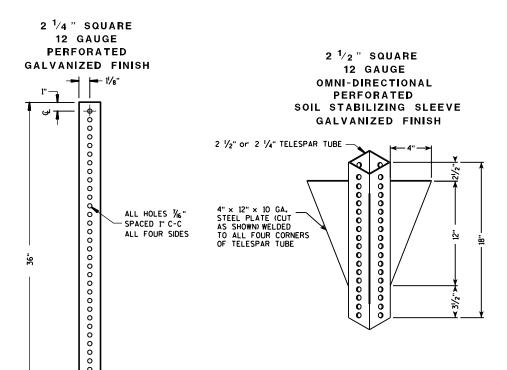
For State Traffic Engineer

SHEET NO:

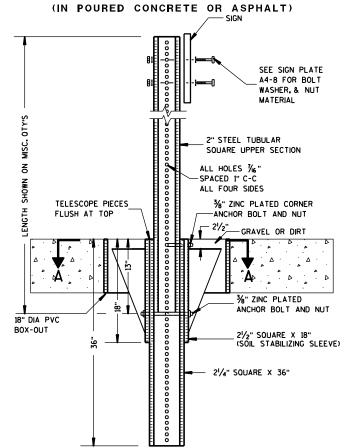
PLOT SCALE: 107.021305:1.000000



TELESCOPIC TUBING ANCHORS TWO PIECE SYSTEM



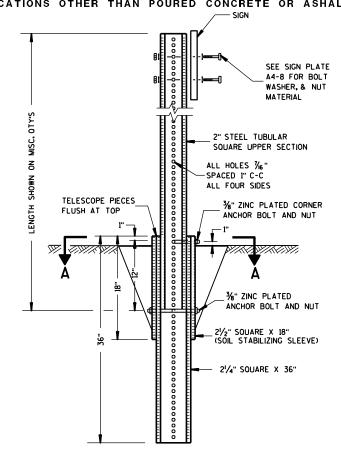
HWY:

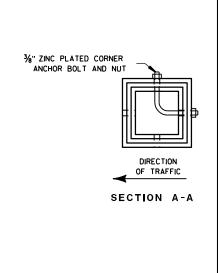


DETAIL OF TUBULAR STEEL SIGN POST

DETAIL OF TUBULAR STEEL SIGN POST

(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASHALT)





Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

For State Traffic Engineer DATE <u>5/30/1</u>2 PLATE NO. <u>A4-9.7</u>

SHEET NO:

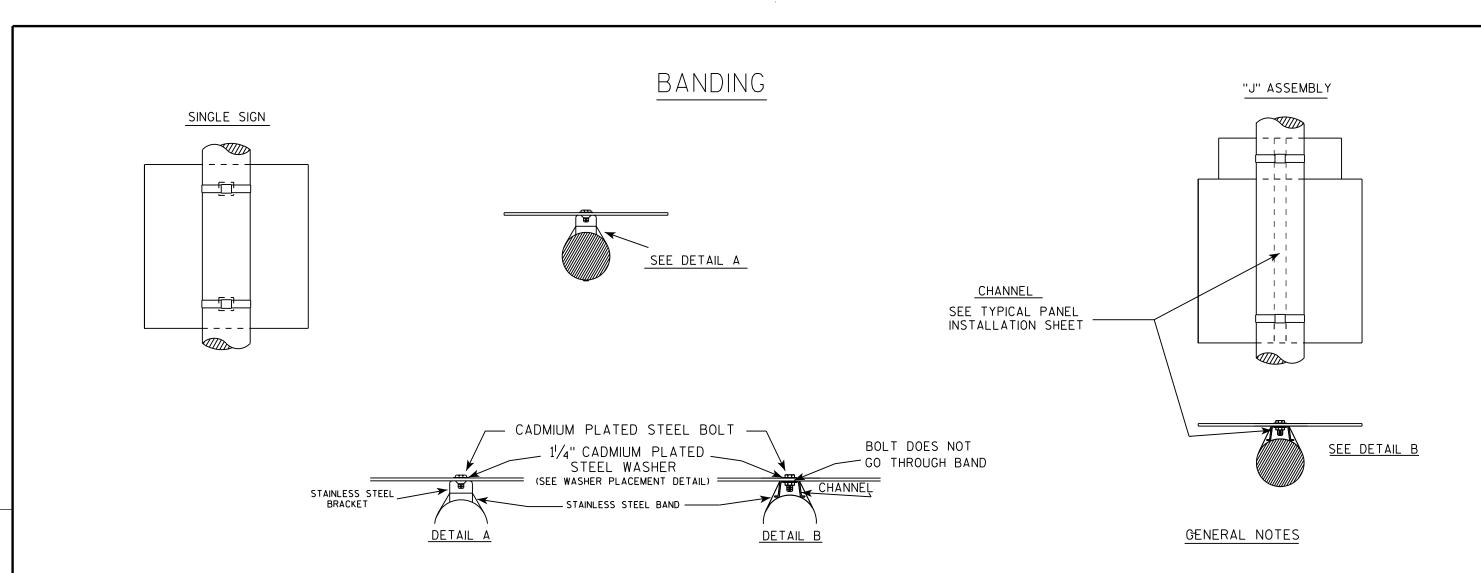
PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN COUNTY:

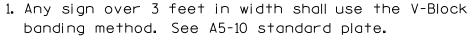
PLOT DATE: 30-MAY-2012 14:04

PLOT BY: mscj9h

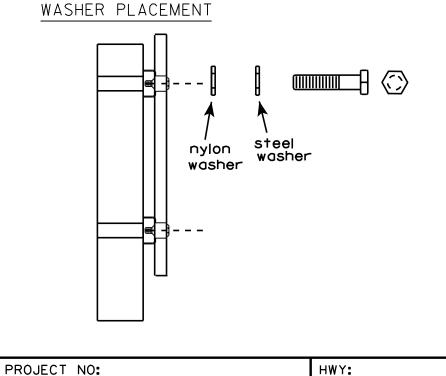
PLOT NAME :

PLOT SCALE : 13.933009:1.000000





- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.



WASHERS (ALL POSTS) -

COUNTY:

1-1/4" O.D. X3/8" I.D. X1/16" STEEL 1-1/4" O.D. X3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer DATE 8/16/13

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A59.DGN

PLOT DATE: 16-AUG-2013 13:27

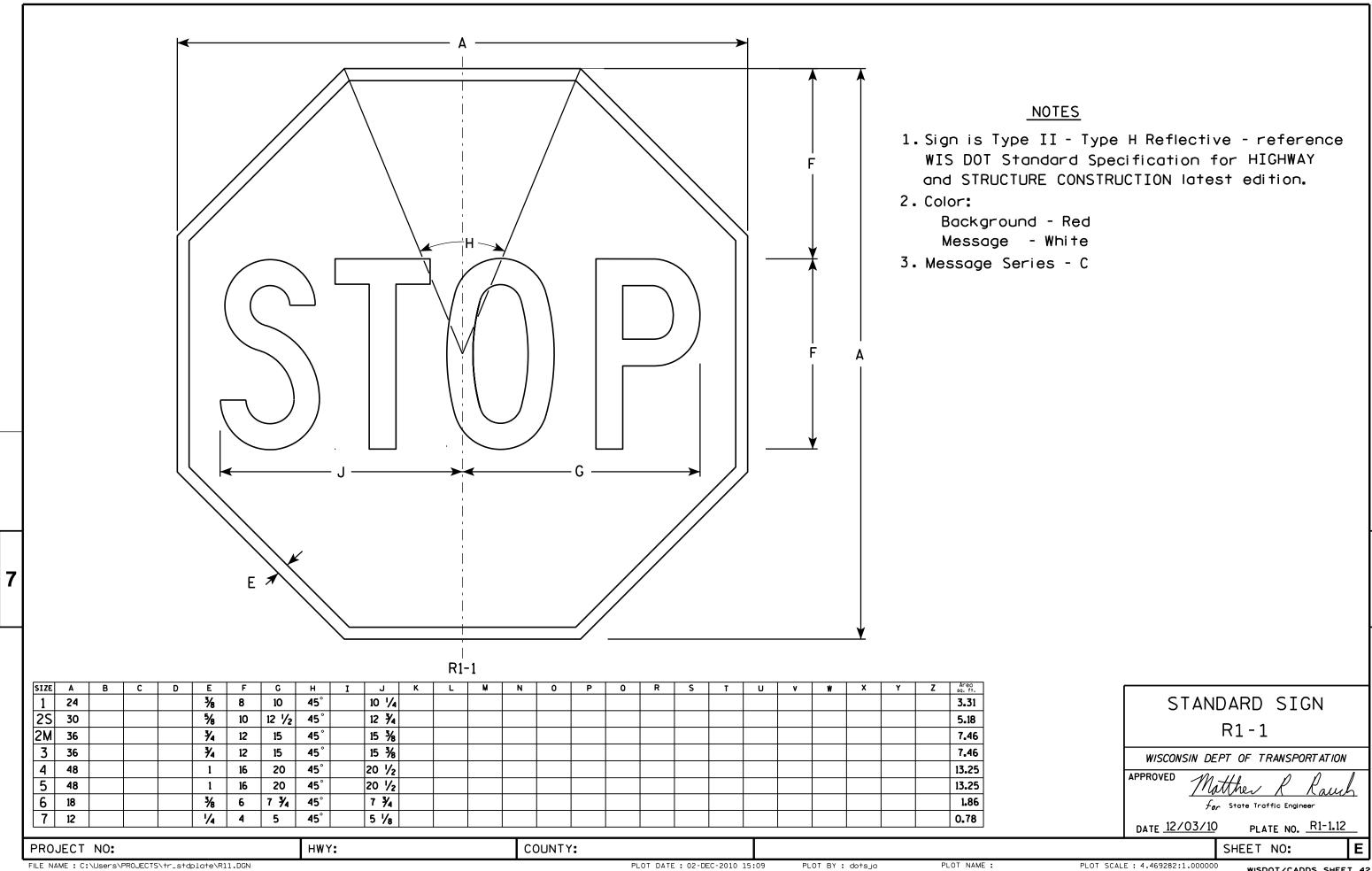
PLOT BY: mscsja

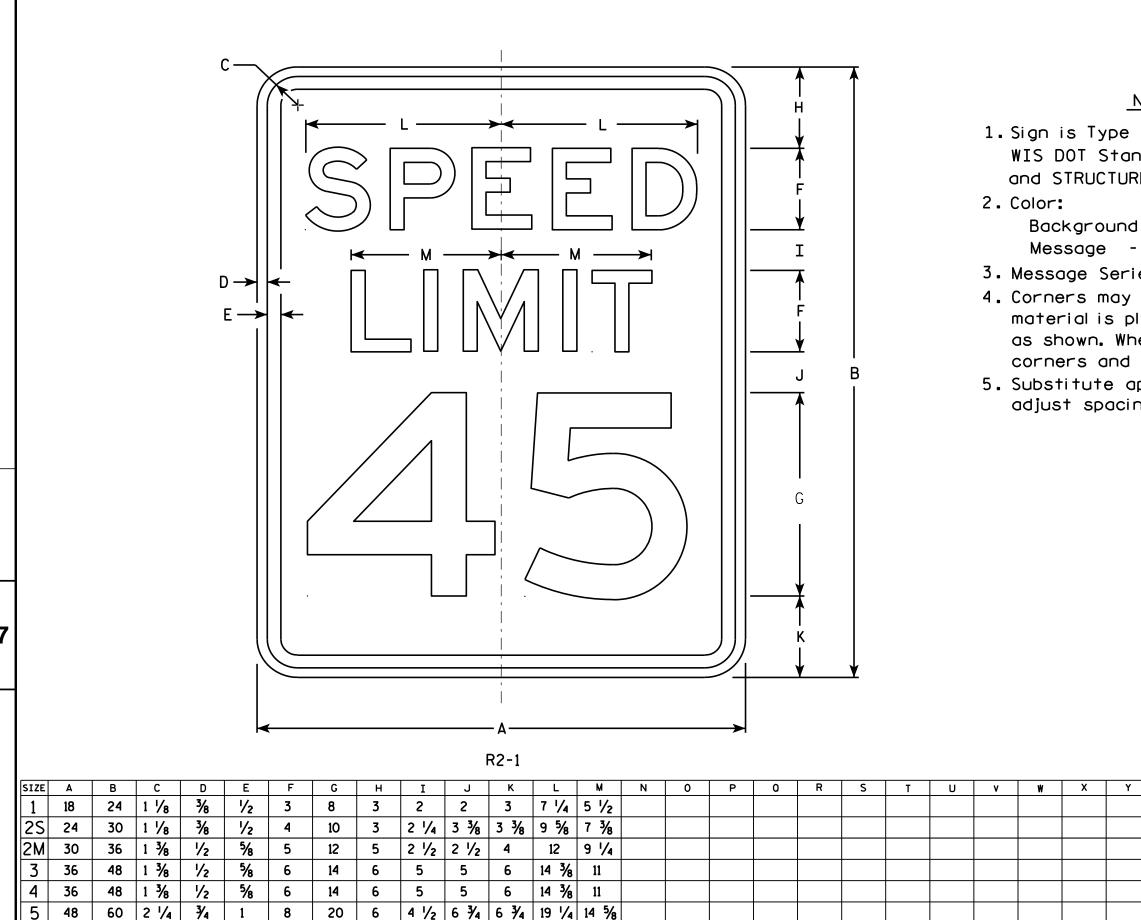
PLOT NAME :

PLOT SCALE: 33.740899:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. A5-9.3





COUNTY:

NOTES

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

Background - White Message - Black

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

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Raus

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

SHEET NO:

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

PROJECT NO:

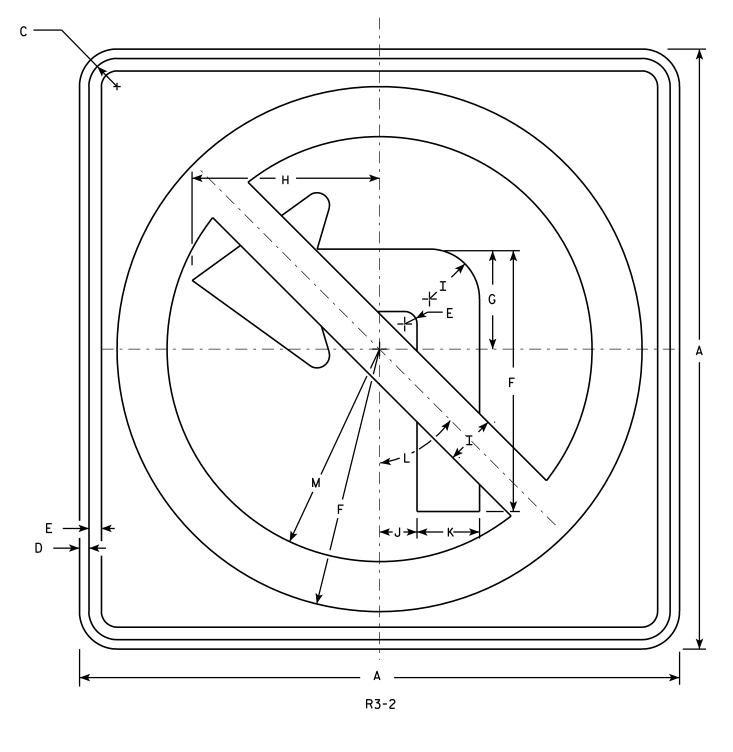
HWY:

PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 4.717577:1.000000

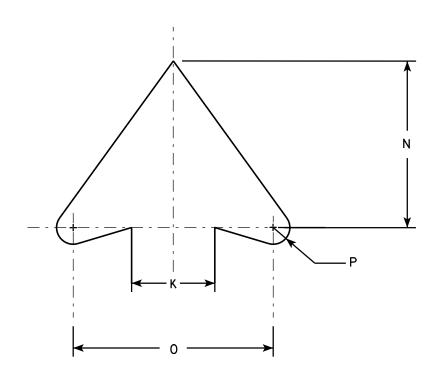


<u>NOTES</u>

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

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	C	D	E	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	×	Y	Z	Area sq. ft
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
25	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Mat

For State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

SHEET NO:

HWY:

PROJECT NO:

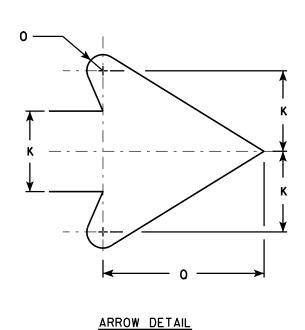
PLOT NAME :

<u>NOTES</u>

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

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



G H A	

SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	l v	w	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 %	5/8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0
3	36		1 %	5/8	3/4		7 1/8	19 %	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 5/8										9.0
4	36		1 %	5/8	3/4		7 1/8	19 %	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 5/8										9.0
5	36		1 %	5∕8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0

COUNTY:

R3-4

STANDARD SIGN R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

8/10 PLATE NO. R3-4.11

DATE12/08/10

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R34.DGN

PROJECT NO:

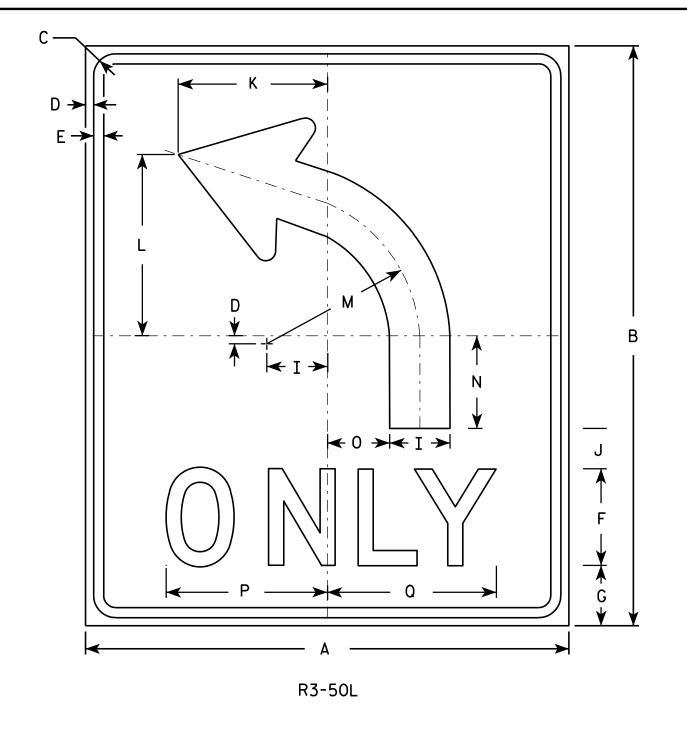
HWY:

PLOT DATE: 08-DEC-2010 15:34

PLOT NAME :

PLOT BY: dotsja

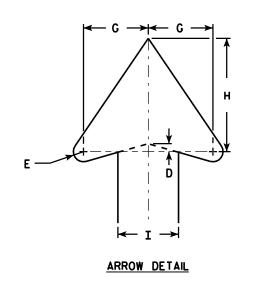
PLOT SCALE: 5.959043:1.000000



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

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. R3-50R is the same as R3-50L except curved portion of arrow points right.



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																											
2S	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 1/8	10	10 1/2										7.5
2M	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 1/8	10	10 1/2										7.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R3-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 3/24/2011

PLATE NO. R3-50.2

SHEET NO:

HWY:

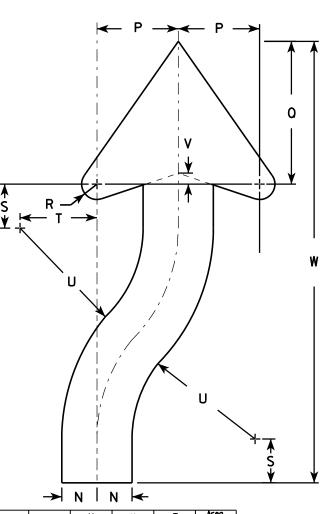
PROJECT NO:

PLOT BY: mscsja

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
- 2. Color:

Background - White Message - Black

- 3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
- 4. R4-8 is the same as R4-7 except Legend is reversed.



PLOT NAME :

ARROW DETAIL

																							\rightarrow	N I	N 		
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areo sq. ft
1	18	24	1 1/8	3∕8	1/2	3 %	4 3/4	5 ½	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 %	3 1/4	6 3/4	1/2	20 ¾				3.0
2S	24	30	1 1/8	3∕8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2	30	4 %	8 1/8	1 /8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 1/8	3	8	4	12 1/2	2	30	4 %	8 1/8	7∕8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 ¾	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 ¾				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 ¾	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 ½	1	40 ¾				12.0
5	48	60	2 1/4	₹4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 %	5	8 3/4	18	1 1/4	50 1/4				20.0

COUNTY:

R4-7

STANDARD SIGN R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

SHEET NO:

PROJECT NO:

D→

HWY:

<u>NOTES</u>

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

Background - See detail Message - White - Type H Reflective

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

Whi te Red White R5-1

SIZE	Α	В	С	D	Е	F	G	H	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2S	30		1 1/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 %	14 1/2	12 1/2	8 1/2	8 %											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 ¾											9.0
3	36		2 1/4		6	5	7 1/2	2 ½	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 %	14 1/2	23 1/2	20	12 3/4	12 1/8											16.0

COUNTY:

STANDARD SIGN R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

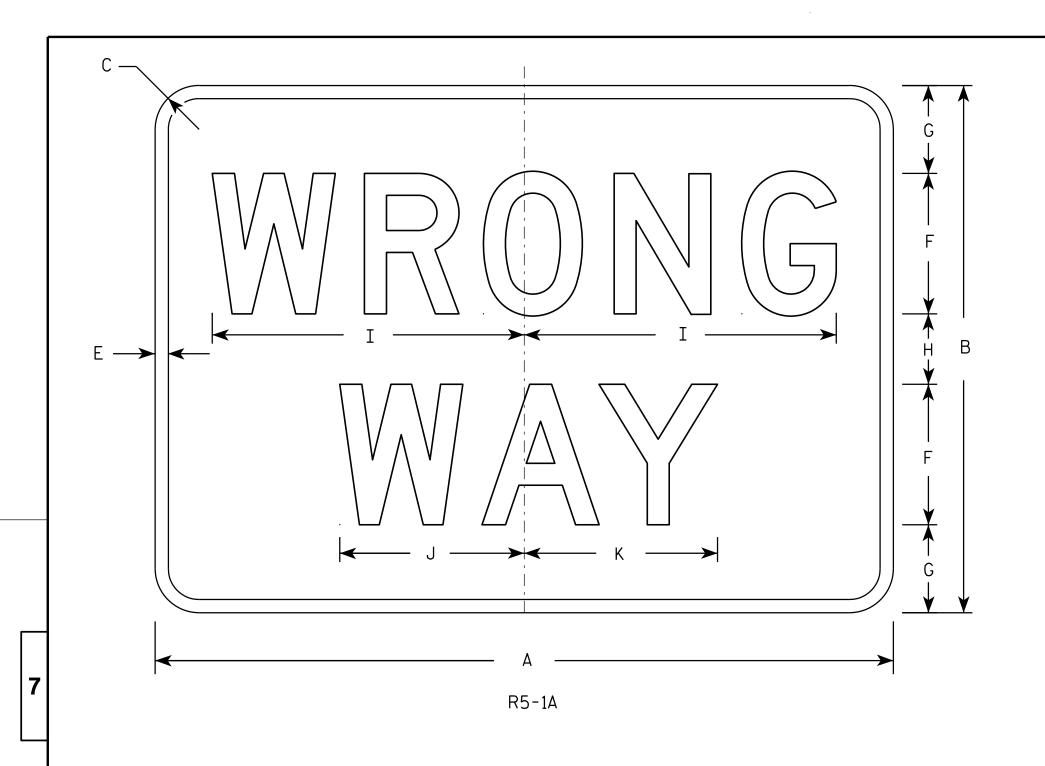
DATE 12/17/10 PLATE NO. R5-1.15

SHEET NO:

PROJECT NO:

HWY:

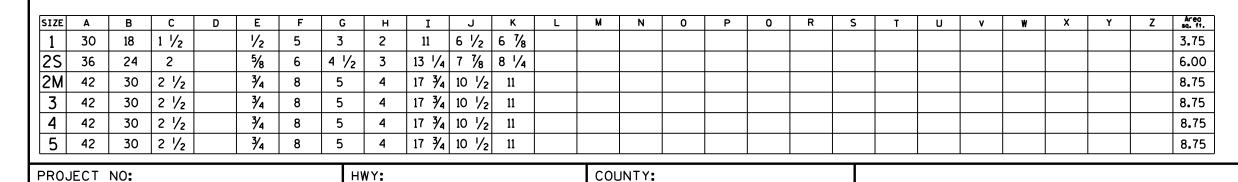
PLOT NAME :



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

Background - Red Message - White

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



STANDARD SIGN R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Raud

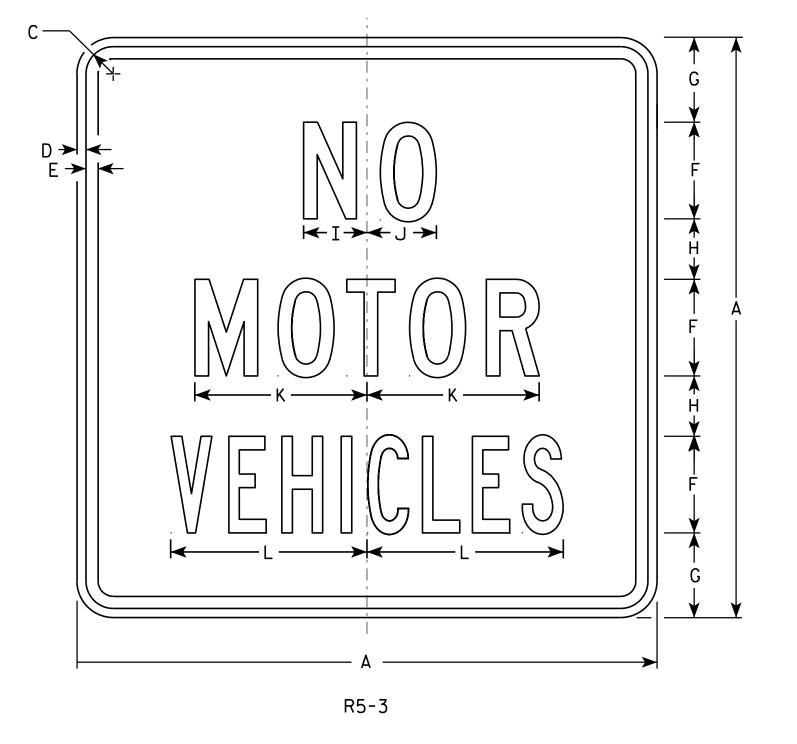
For State Traffic Engineer PLATE NO. R5-1A.2

DATE 12/17/10

SHEET NO:

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 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 & 2 are Series C. Line 3 is Series B.

С 0 0 S U 2S 1/2 4 3 1/2 2 1/2 2 5/8 2 7/8 7 1/8 8 1/8 24 1 1/8 4.0 2M 4 3 1/2 2 1/2 2 5/8 2 7/8 7 1/8 8 1/8 24 1 1/8 1/2 4.0 3 4 5

COUNTY:

STANDARD SIGN R5-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED NA 1/1

Matthew & Rams

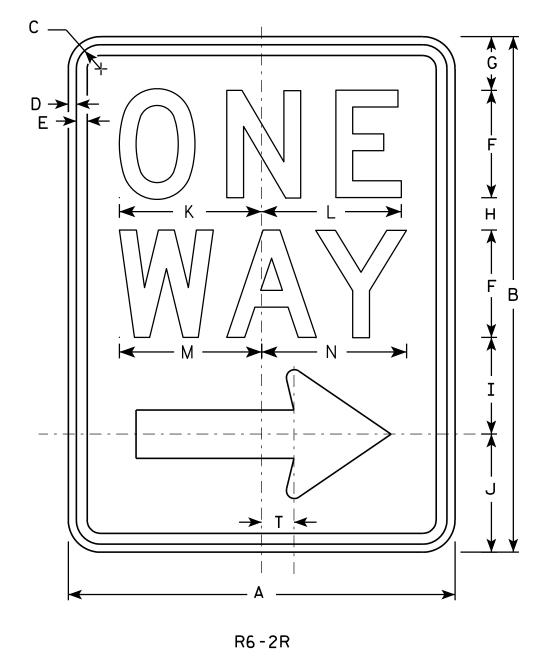
DATE 3/29/2011 PLATE NO. R5-3.2

SHEET NO:

PLOT NAME :

PROJECT NO:

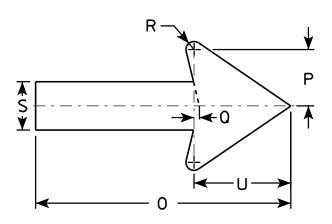
HWY:



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

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. R6-2L same as R6-2R except arrow points to the left.



SIZE	Α	В	С	D	Е	F	G	Η	I	J	K	L	М	N	0	Р	0	R	S	Т	J	٧	W	Х	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 ½	6 %	6 1/2	6 %	6 ¾	11 %	2 %	1/4	3∕8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 ½	7	8 1/8	8 1/8	8 1/2	8 %	16	3 ½	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 %	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 %	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 %	1/2	3/4	4 3/4	3	9					
4	36	48	1 %	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 ½	24	5 %	1/2	3/4	4 3/4	3	9					
5	·										·									·		·		·		
1																										

COUNTY:

STANDARD SIGN R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Rauch

For State Traffic Engineer

DATE 11/2/10

PLATE NO. R6-2.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R62.DGN

HWY:

PROJECT NO:

PLOT DATE: 02-NOV-2010 15:25

PLOT NAME :

PLOT BY: ditjph

PLOT SCALE: 4.469282:1.000000



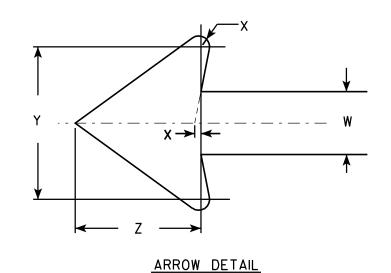
COUNTY:

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 - Red

- 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 and 4 are series C, line 2 is series B.
- 6. R7-53D (double arrow) R7-53L (left arrow) R7-53R (right arrow)



J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
5/8	1 1/2	2 1/2	2	2	4 %	4 1/8	2 %	1 3/4	1/4	4 1/2	2 3/8	3 %	3/4	1/8	1 3/4	1 1/2	1.5
1	2	3 1/4	2 3/4	2 %	7 1/8	7	3 3/8	1 1/2	5/8	5 3/8	3	5 %	1 1/8	1/4	2 %	2 1/4	3.0
1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	4	2	5/8	6 %	3 %	7 3/4	1 1/2	1/4	3 ½	3	5.0
1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	4	2	5/8	6	3 %	7 3/4	1 1/2	1/4	3 1/2	3	5.0

APPROVED

for State Traffic Engineer

DATE 3/31/2011

PLATE NO. R7-53.6 SHEET NO:

STANDARD SIGN

WISCONSIN DEPT OF TRANSPORTATION

R7-53

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R753.DGN

1 1/8

1 1/8

1 1/8

30 1 1/8

24

30

3⁄8

3/8

3/8

3/8

3/8

1/2

1/2

1/2

3

4

5

5

1 1/8

3

3

2

2 1/2 2 1/2 1 1/4

3

3

HWY:

1∕8

2

2

SIZE

2S

2M

3

4

5

12

18

24

24

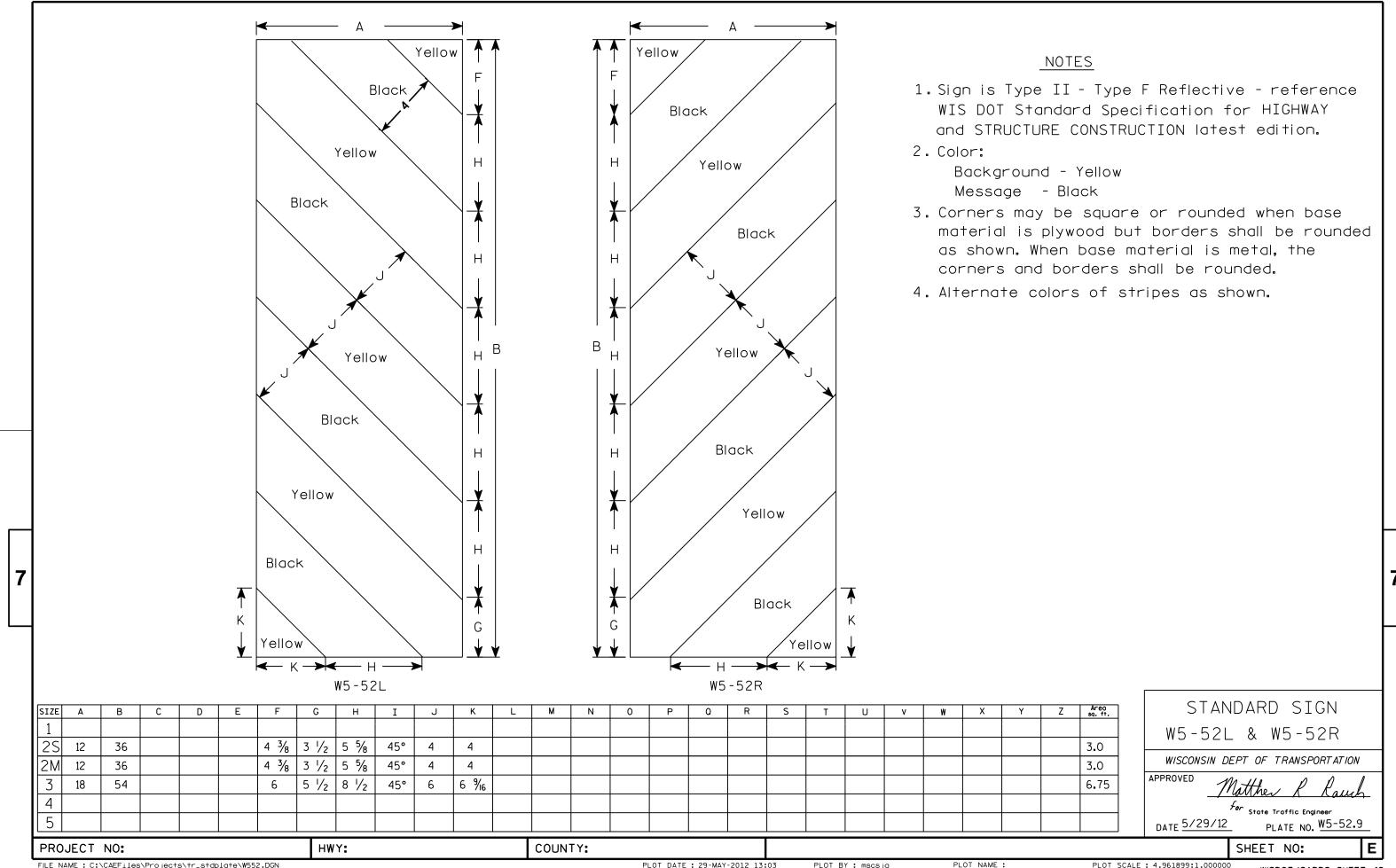
PROJECT NO:

PLOT DATE: 31-MAR-2011 13:28

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.476110:1.000000







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

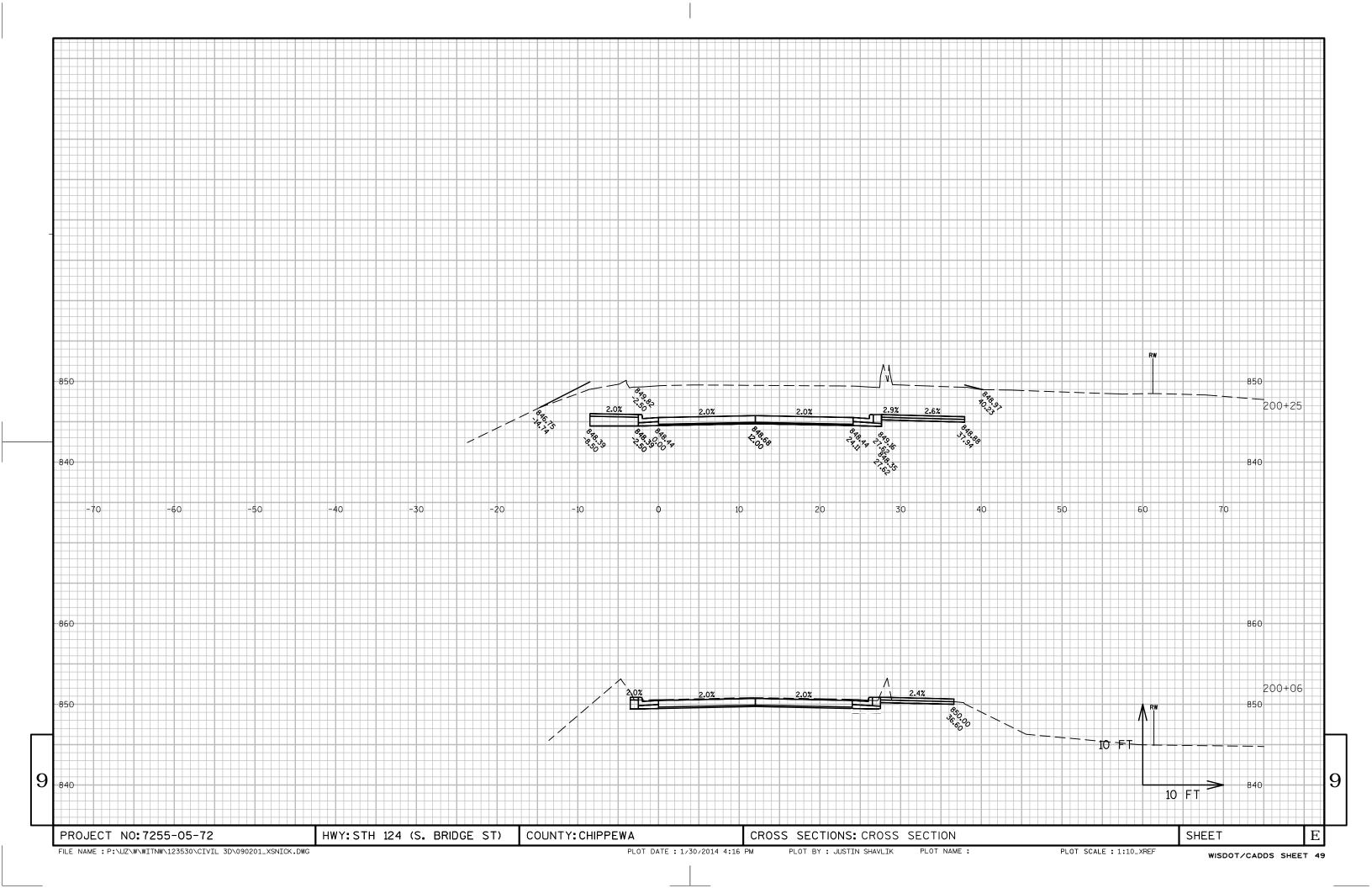
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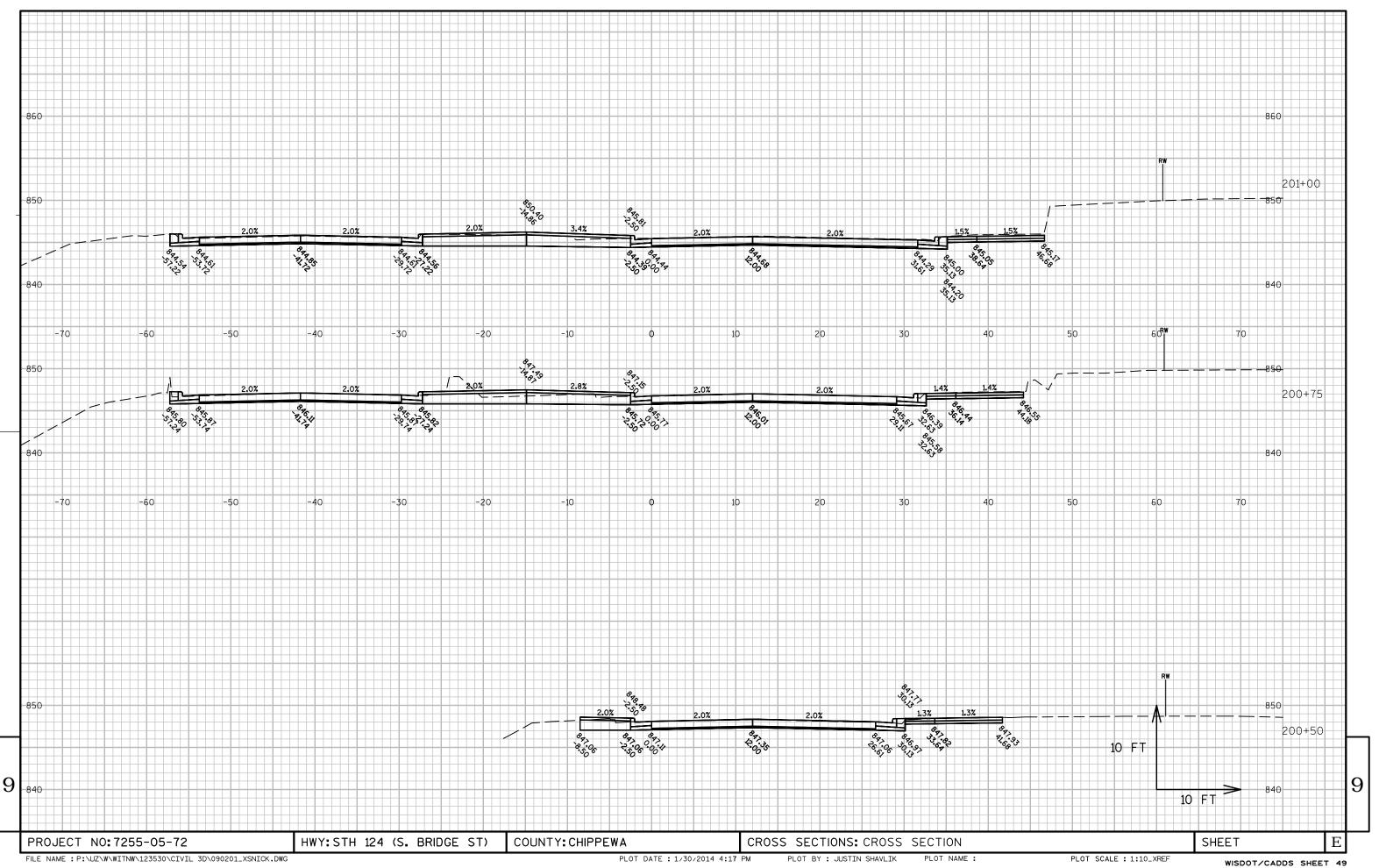
PLOT BY: mscsja

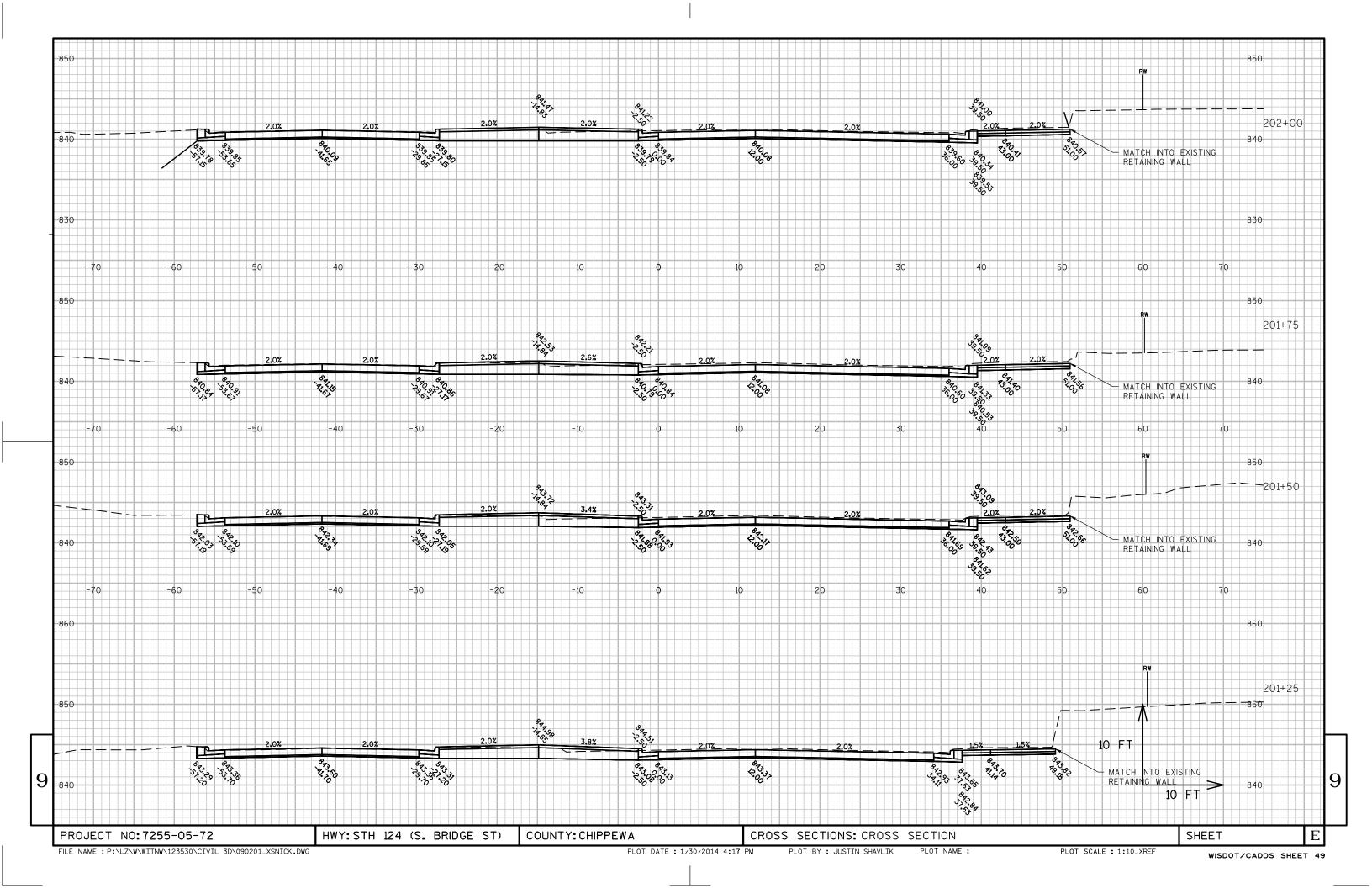
PLOT SCALE: 13.659812:1.000000

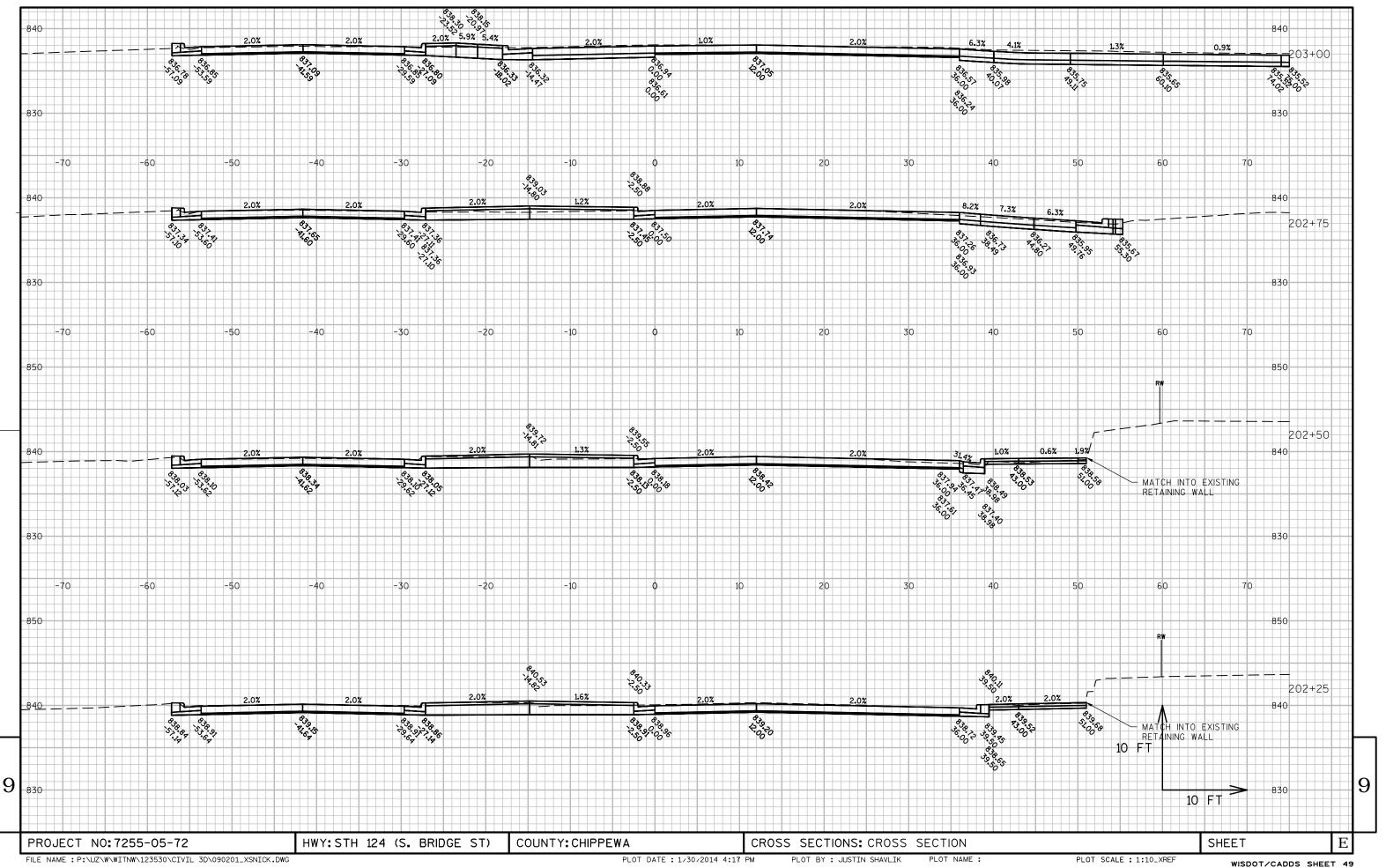
APPROVED

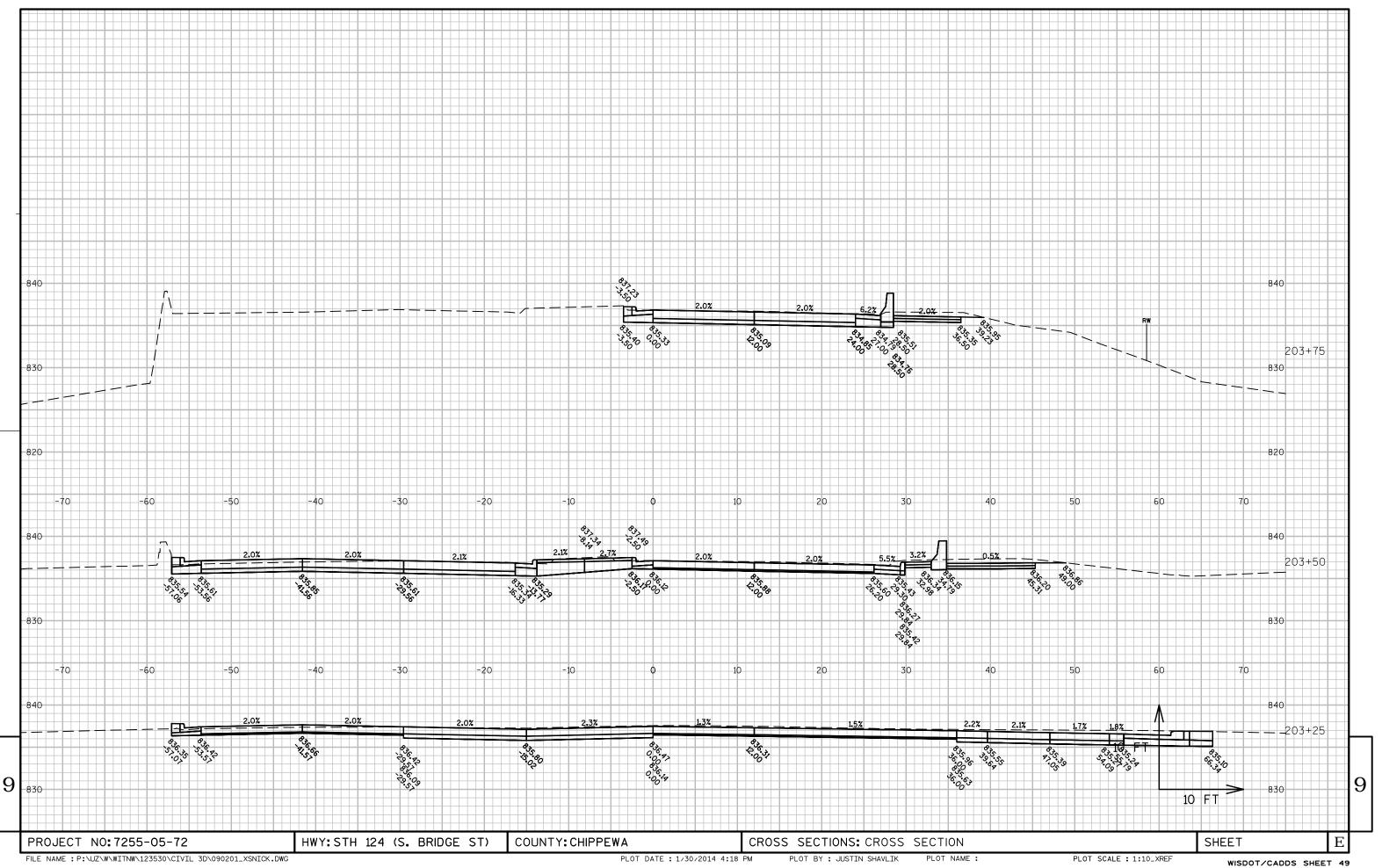
WISDOT/CADDS SHEET 42

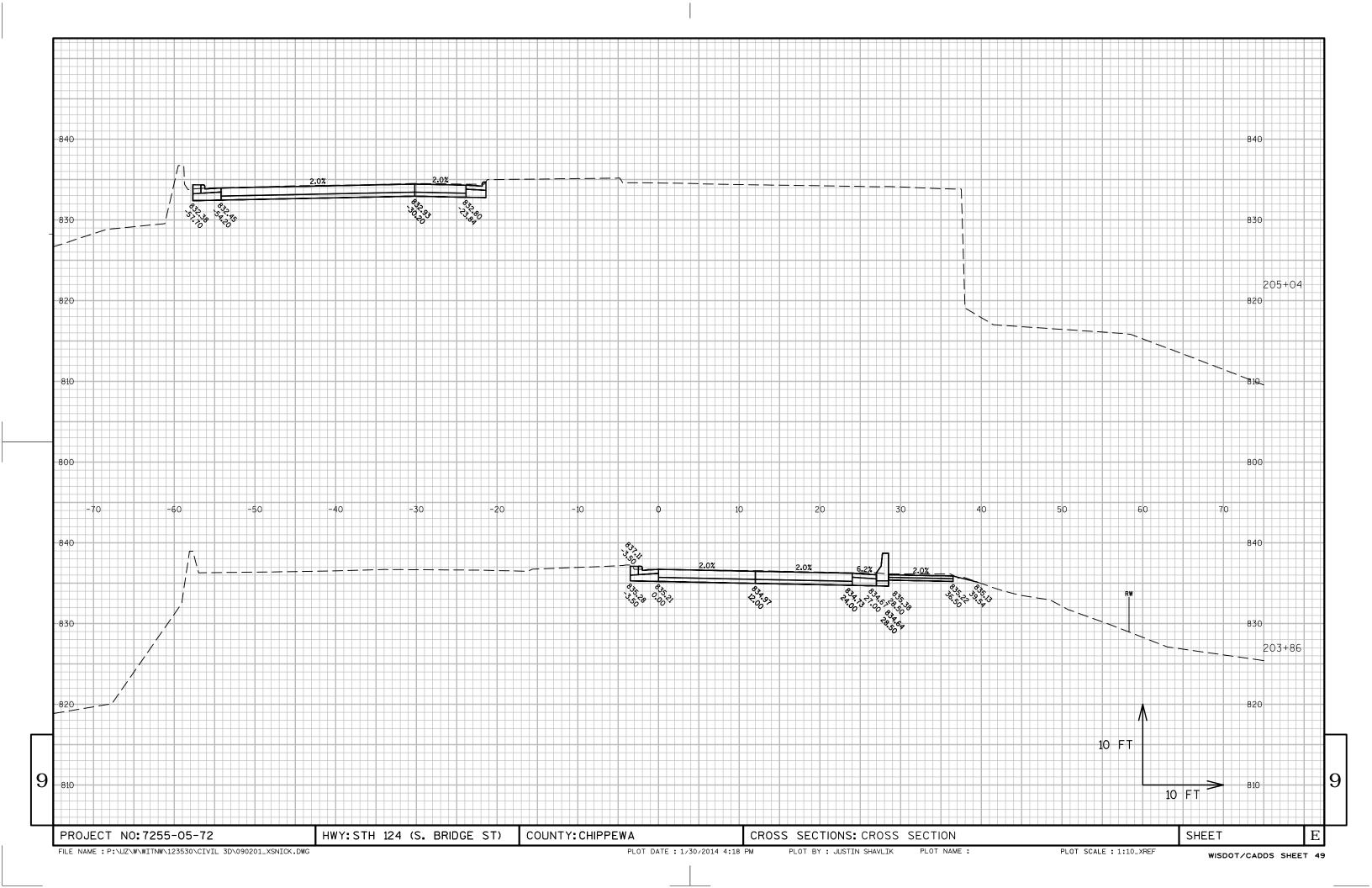


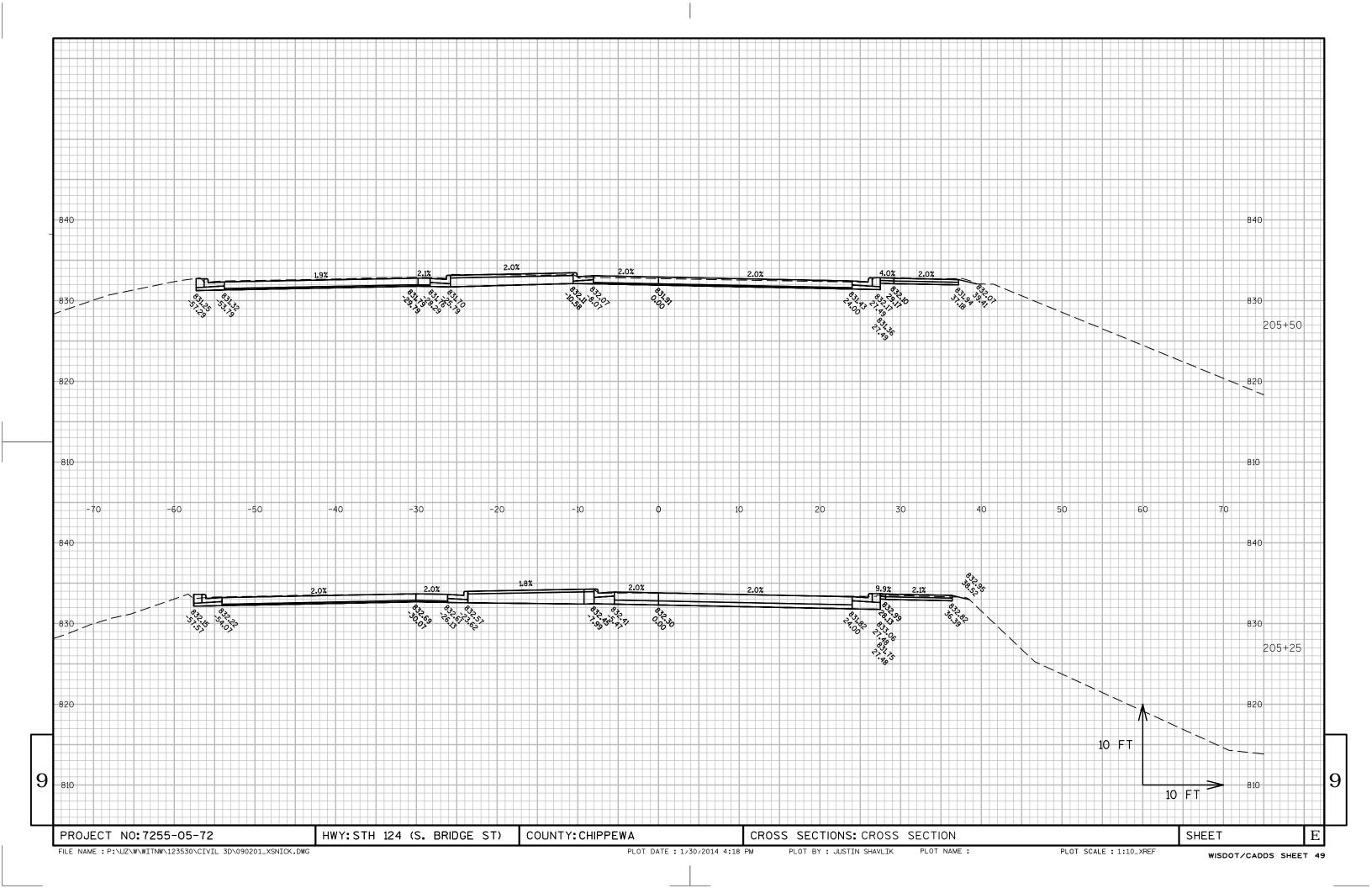


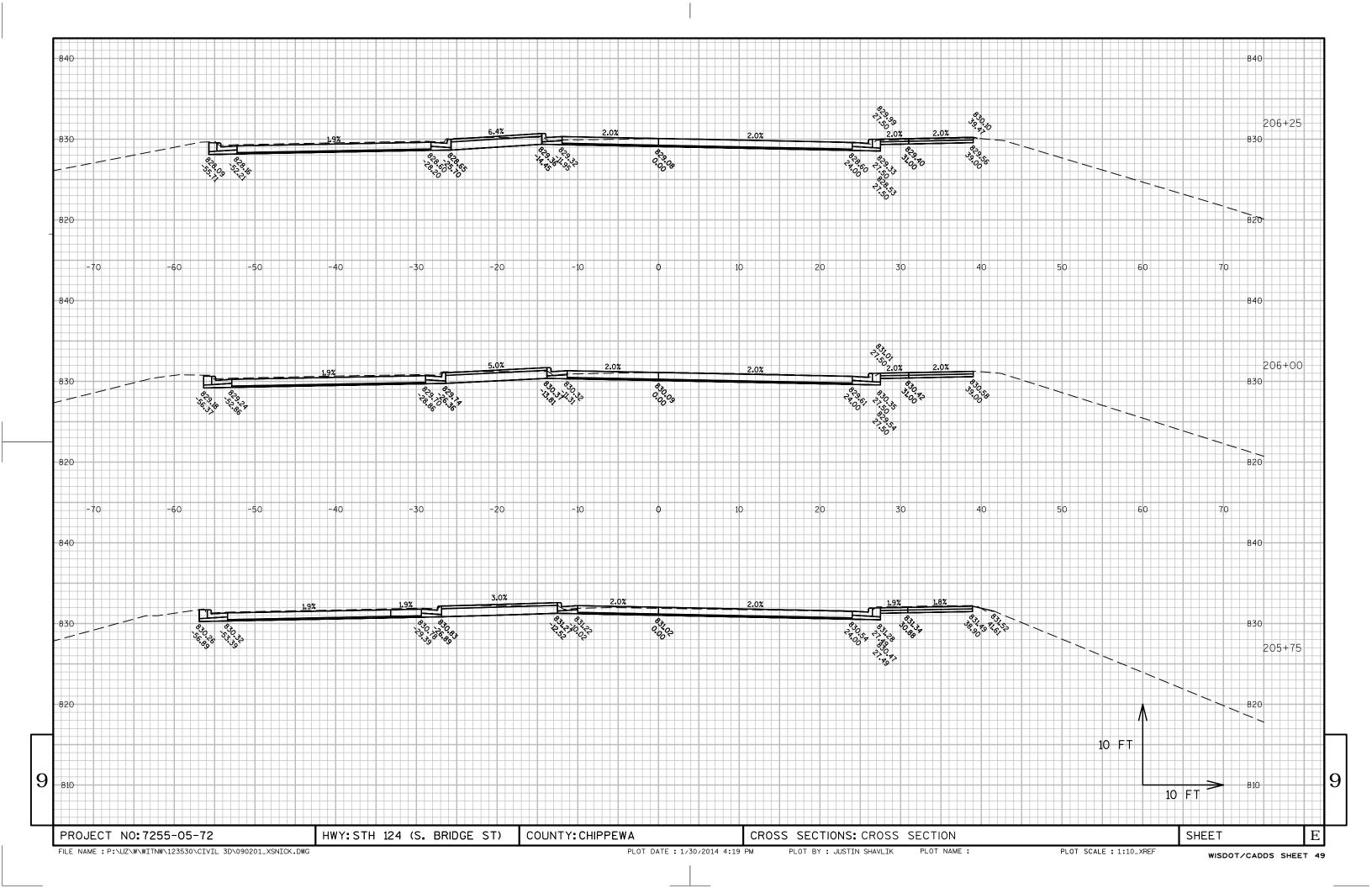


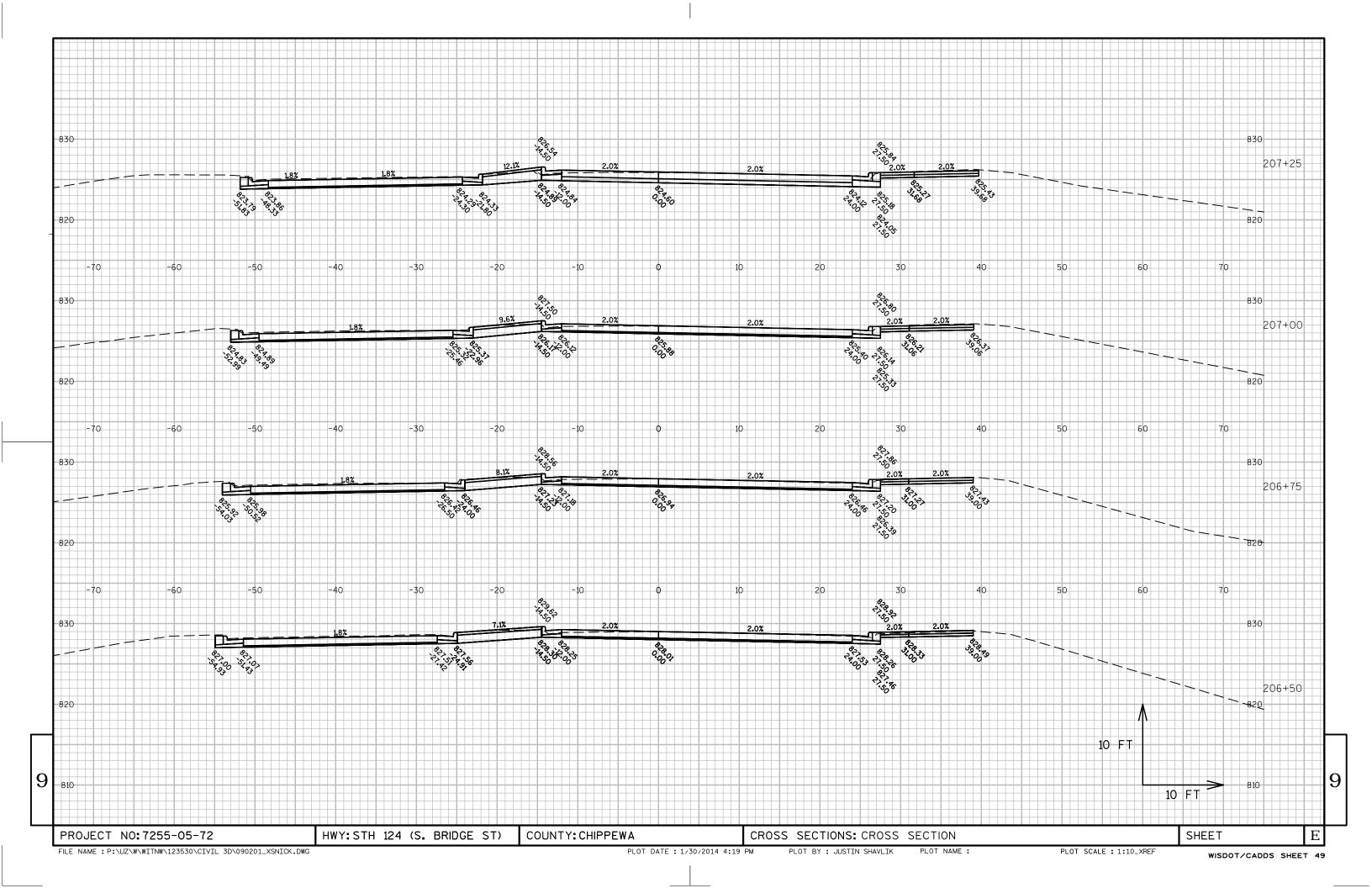


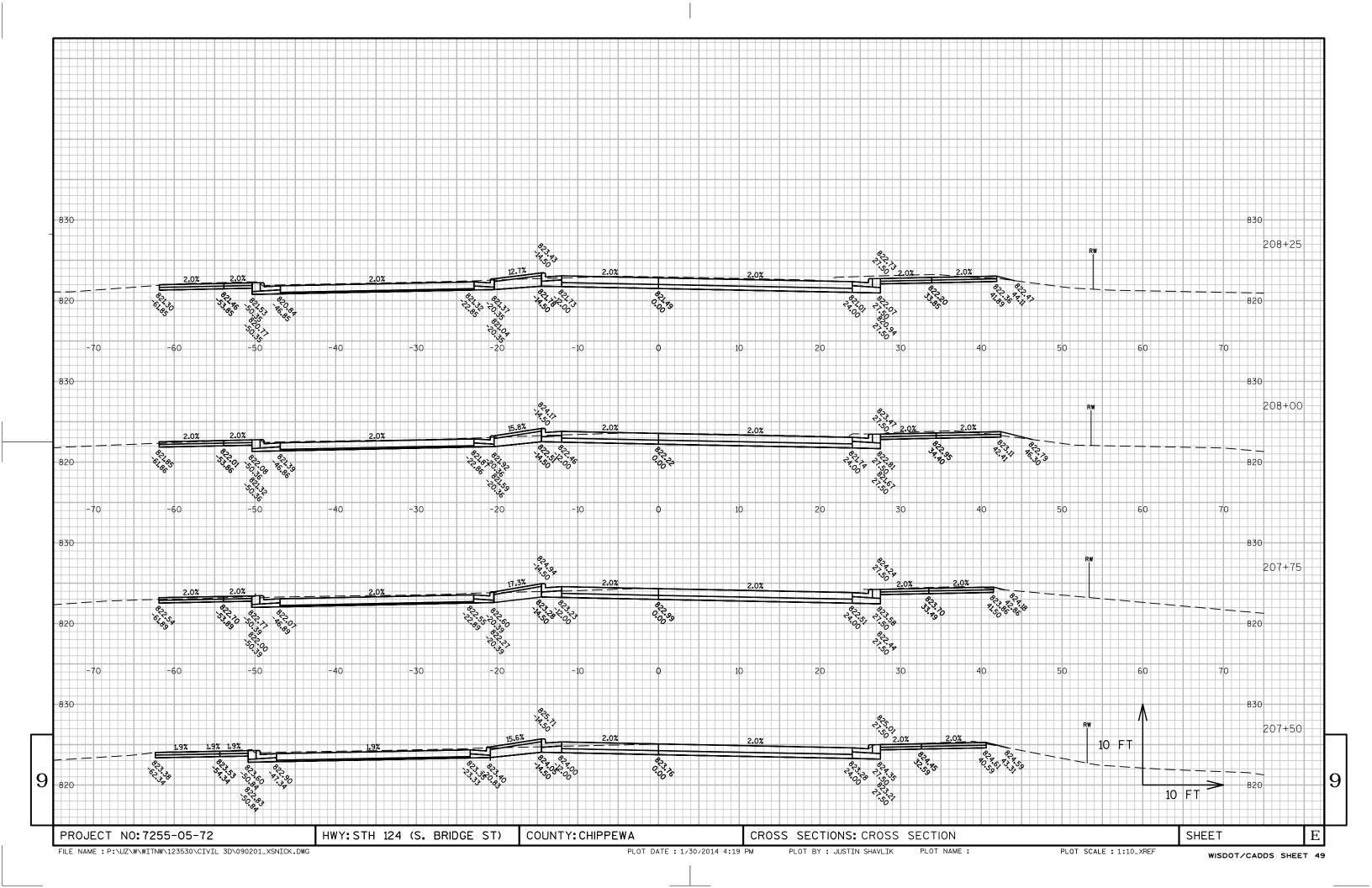


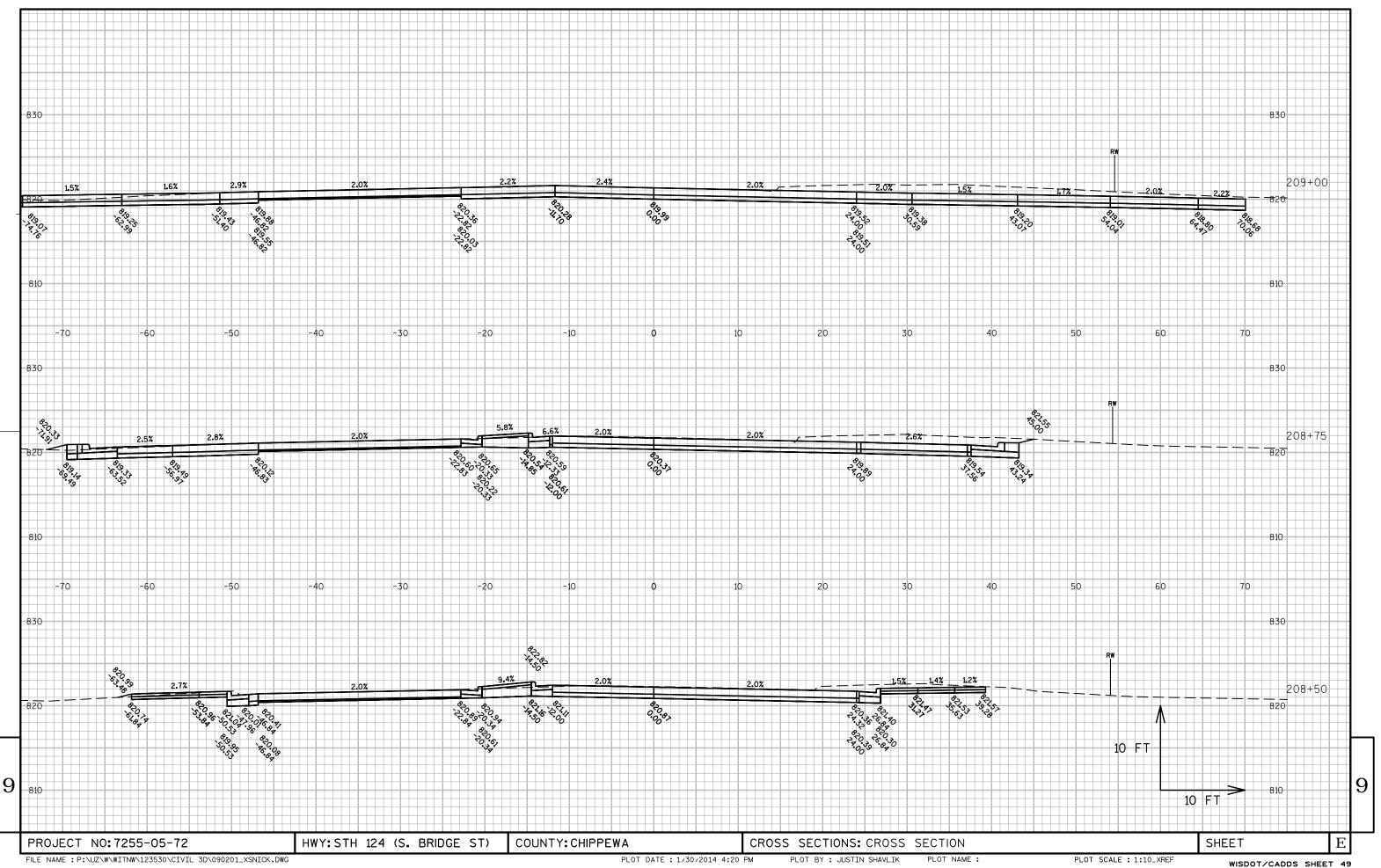


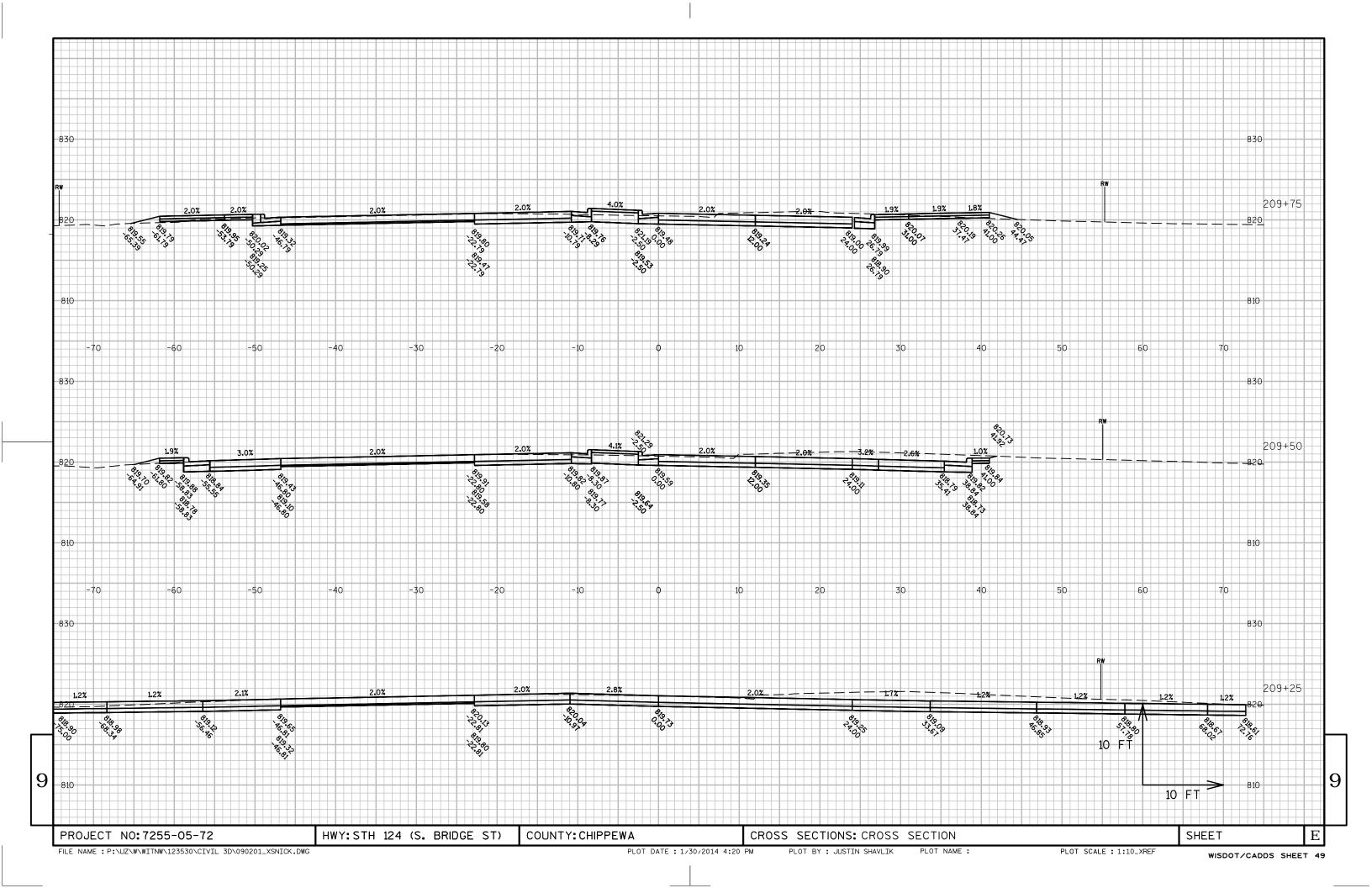


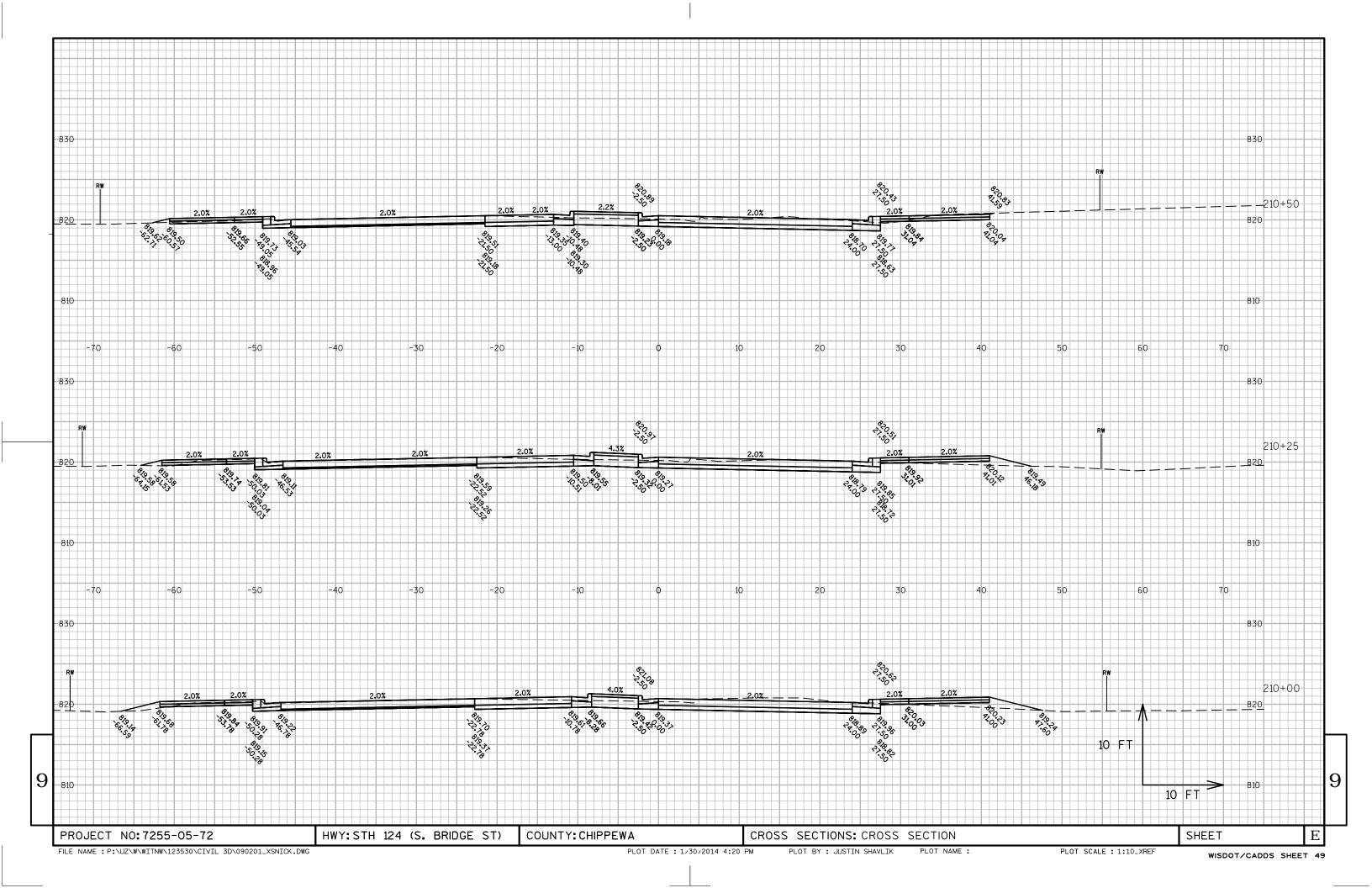


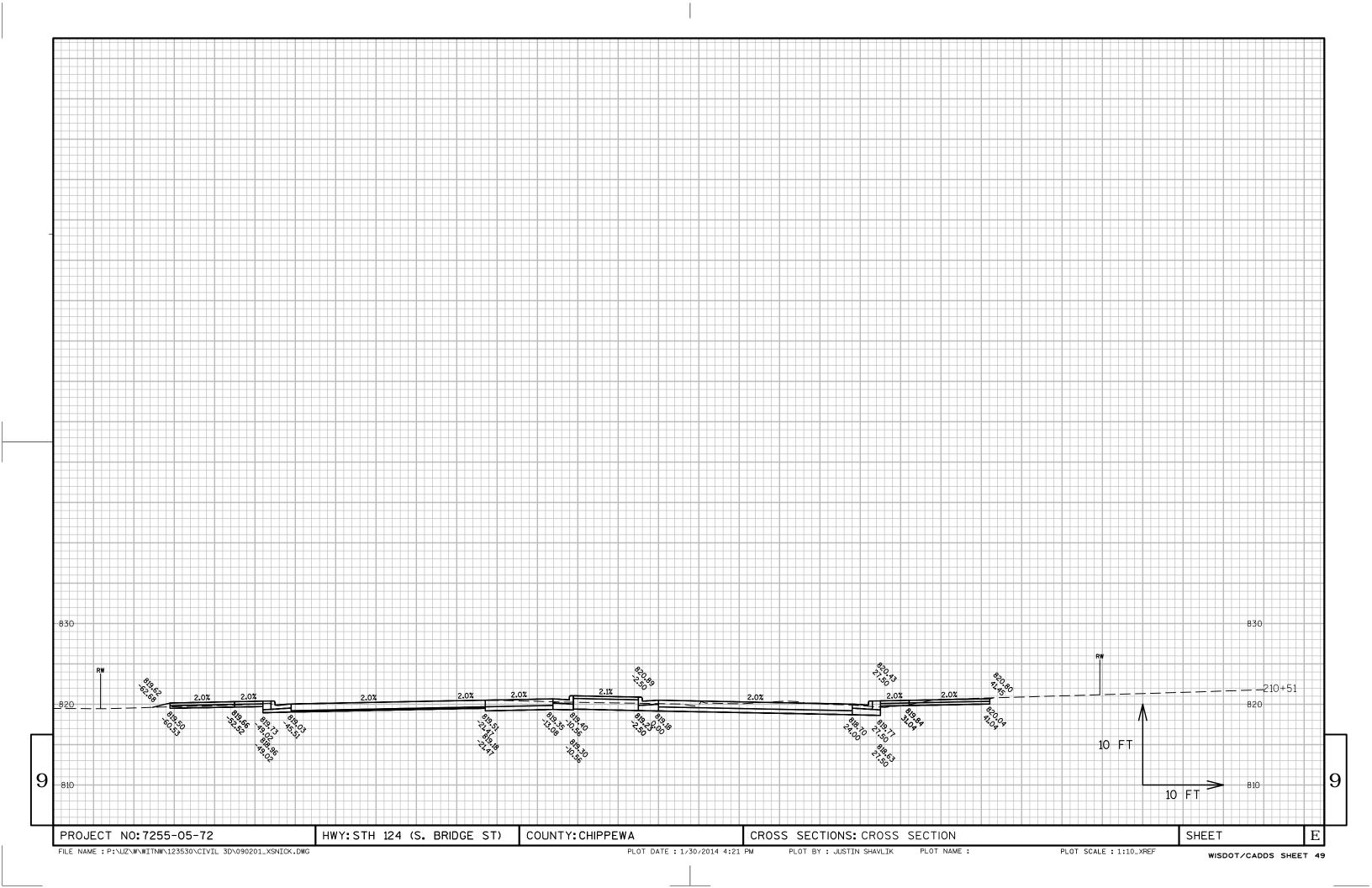


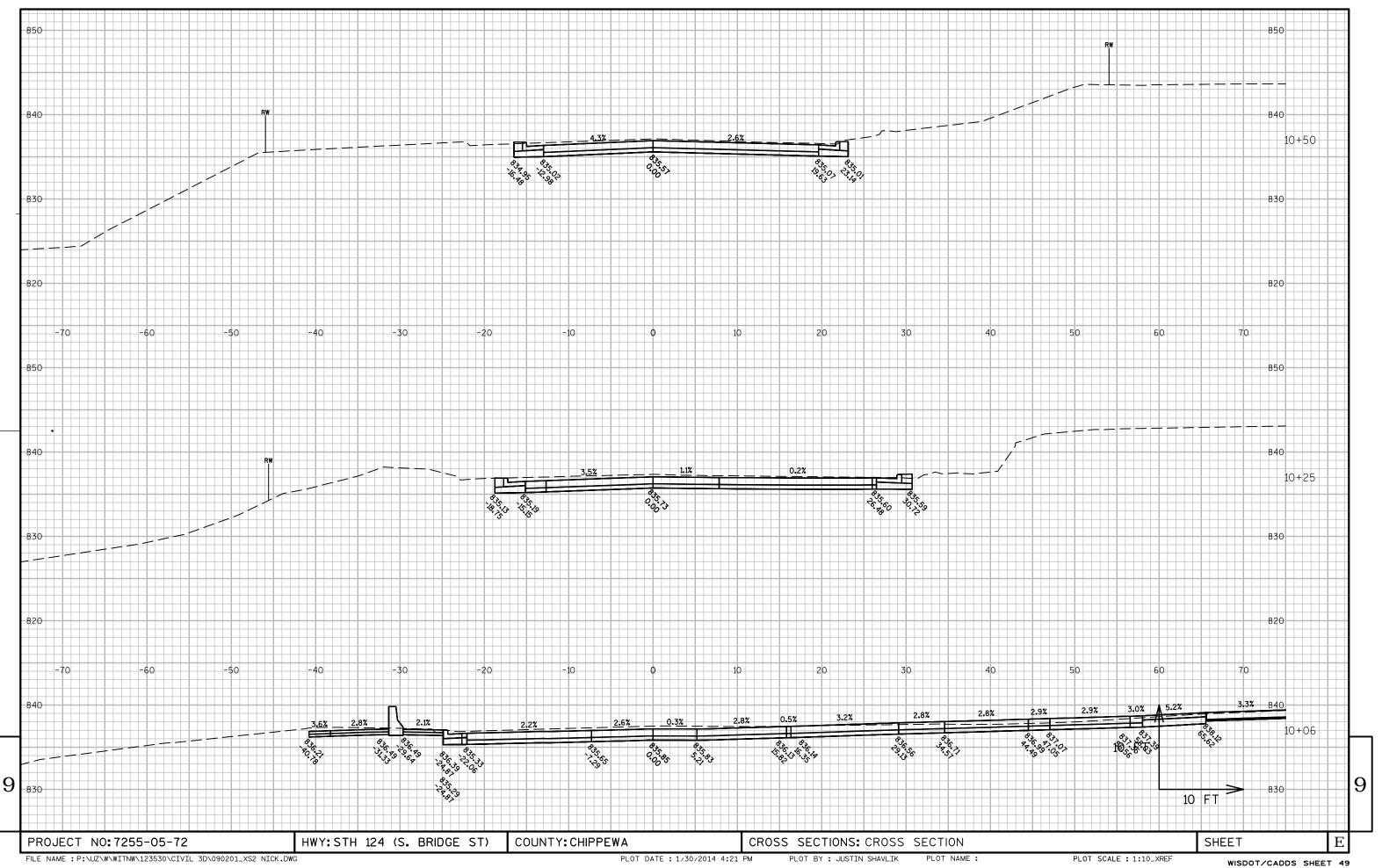


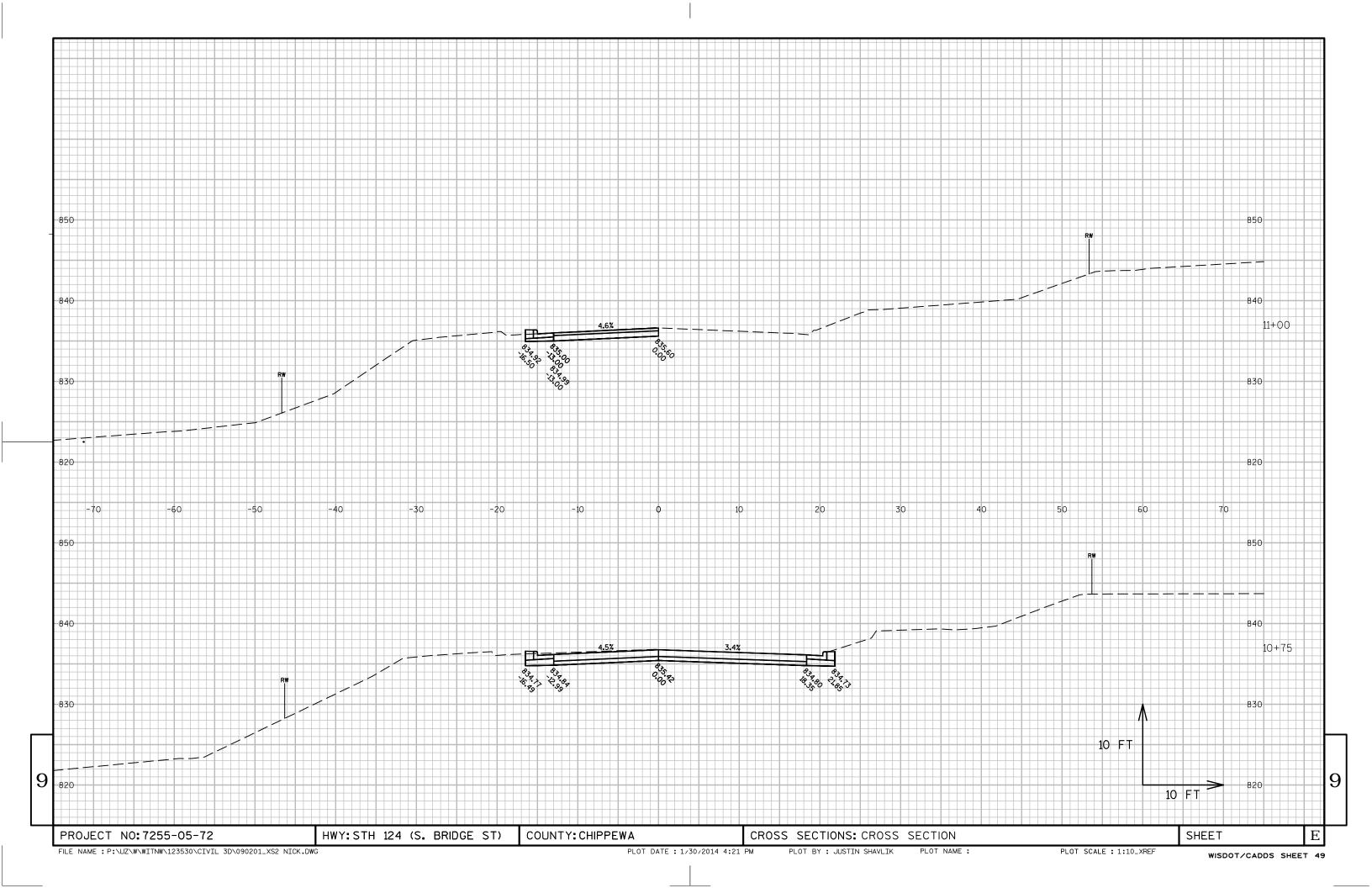


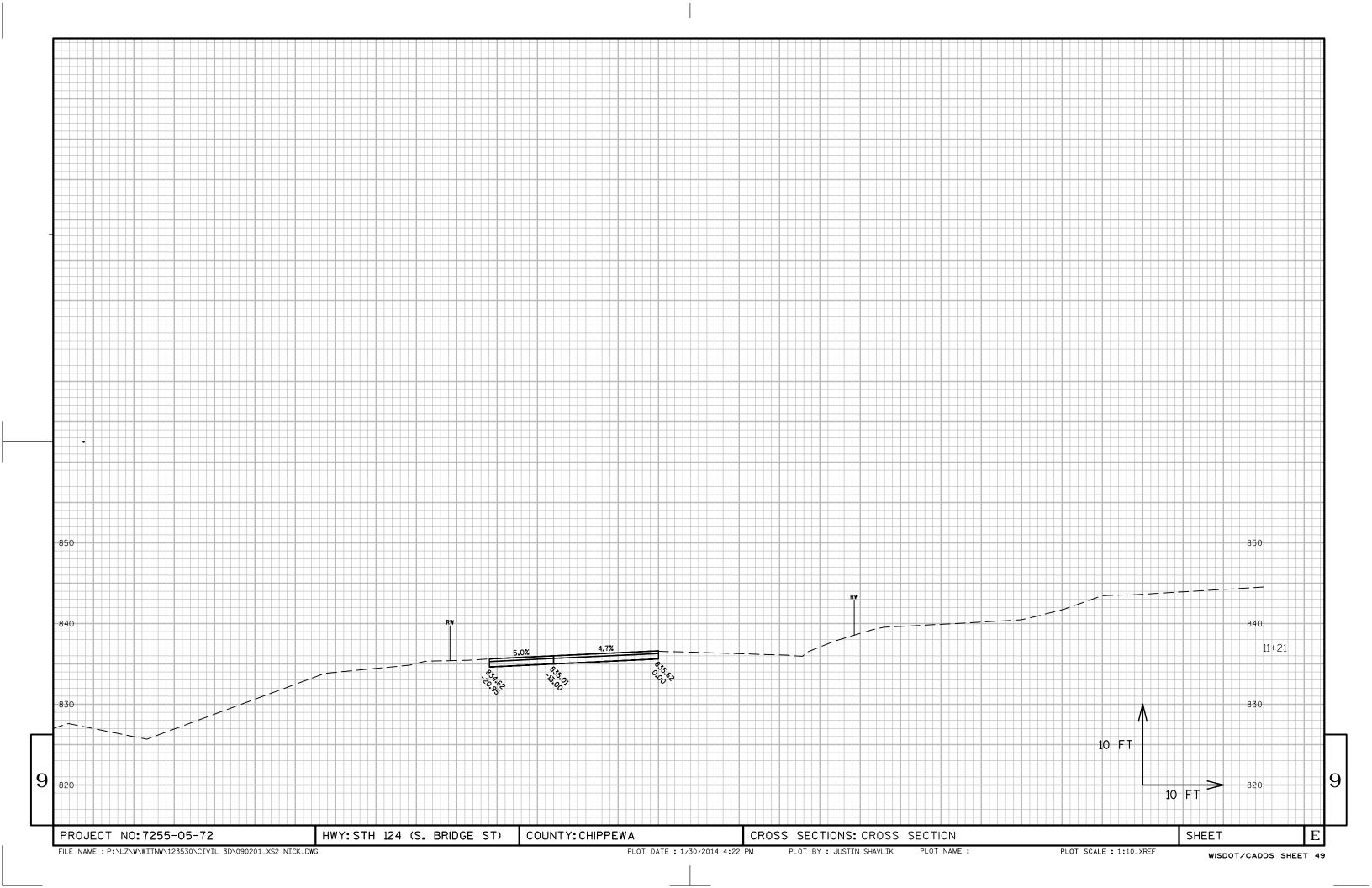




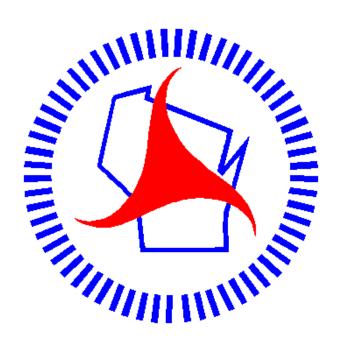








Notes



Wisconsin Department of Transportation

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http://www.dot.wisconsin.gov