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GRE	JULY 20	18
	ORDER	OF

ORDER OF SHEETS

Section No. 1 Title Section No. 2 Typical Sections and Details (Includes Erosion Estimate of Quantities

Miscellaneous Quantities Right of Way Plat

Plan and Profile Standard Detail Drawings

Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 156

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

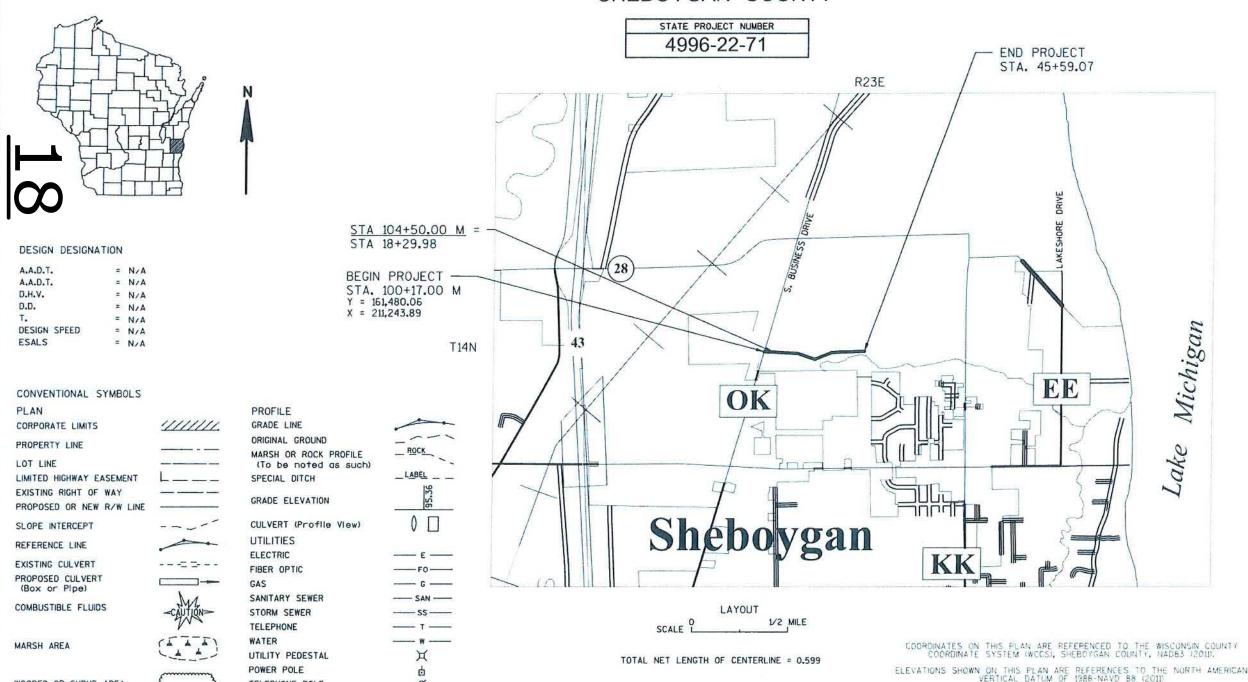
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2018345 4996-22-71

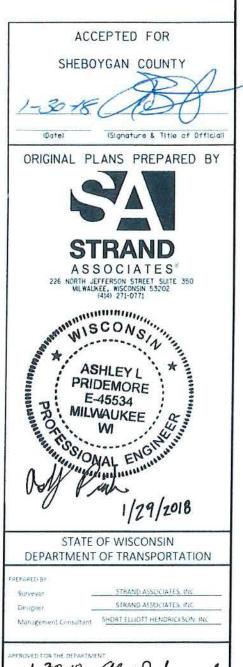
UTILITY CORRIDOR MULTI-USE PATH

S. BUSINESS DR - S. 18TH ST

NON-HIGHWAY

SHEBOYGAN COUNTY





WOODED OR SHRUB AREA

<u>GENERAL NOTES</u>

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER IN CONSULTATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FLANGE LINE UNLESS OTHERWISE NOTED.

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

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

PIPE ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

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

THE LOCATION OF PROPOSED SIGNS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT NUMBER OF SIGNS AND SIGN LOCATIONS ARE TO BE APPROVED BY THE ENGINEER IN THE FIELD.

MISCELLANEOUS REMOVAL ITEMS SHALL BE REMOVED TO AN EXISTING JOINT, SAWCUT WHERE SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

A SAWED JOINT SHALL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION.

ANY CONFLICTING SIGN SHALL BE COVERED OR REMOVED.

EXISTING PIPE CULVERT SIZES ARE APPROXIMATE AND THE CONTRACTOR SHALL BASE IT'S BID ON THE ACTUAL FIELD SIZES.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. SEED WITH TEMPORARY SEED AND MULCH ANY AND ALL DISTURBED AREAS THAT WILL NOT BE PERMANENTLY RESTORED IN 14 DAYS OR LESS.

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

EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NOT LONGER REQUIRED.

REMOVAL OF TEMPORARY EROSION CONTROL DEVICES IS INCLUDED IN THE COST THEIR RESPECTIVE BID ITEMS.

UTILITIES

* ALLIANT ENERGY - ELECTRIC

JOE KOCHAN 4421 TOWER DRIVE SHEBOYGAN, WI 53081 PH: (920) 459-6331 Joekochan@alliantenergy.com

* CHARTER COMMUNICATIONS

TOM HARYCKI 2312 CONTINENTAL DRIVE WEST BEND, WI 53095 PH: (262) 306-8756 EXT. 20702 tom.haryckl@charter.com

* CITY OF SHEBOYGAN SANITARY/STORM

RYAN SAZAMA 2026 NEW JERSEY AVENUE SHEBOYGAN, WI 53081 PH: (920) 459-3485 ryan.sazama@sheboyganwi.gove

*DENOTES DIGGERS HOTLINE MEMBER

* ATC - TRANSMISSION

KIM HACKELBERG 801 O'KEEFE ROAD P.O. BOX 6113 DEPERE, WI 54115 PH: (920) 338-6556 CELL: (920) 680-6322 khackelberg@a†cllc.com

* WISCONSIN PUBLIC SERVICE -

MICHAEL LOWTHER 933 S WILDWOOD DRIVE SHEBOYGAN, WI 53081 PH: (920) 849-7903 CELL: (920) 946-3198

* SHEBOYGAN WATER UTILITY

DAMIAN NEVERS 72 PARK STREET SHEYBOYGAN, WI 53081 PH: (920) 459-3806

* AT&T - COMMUNICATIONS

CHUCK BARTELT 70 E. DIVISION STREET FOND DU LAC, WI 54935 PH: (920) 929-1013 CELL: (902) 410-5104 cb1461@a++.com

* WINDSTREAM KDL, INC. -COMMUNICATION

DENNIS RUESS 1858 WRIGHT STREET MADISON, WI 53704 PH: (608) 512-5587 dennis.ruess@windstream.com

* CITY OF SHEBOYGAN ELECTRIC

MIKE WILLMAS 2026 NEW JERSEY AVENUE SHEBOYGAN, WI 53081 PH: (920) 459-3444 CELL: (920) 207-9742 michael.willmas@sheboyganwi.gov

OTHER CONTACTS

WISDNR CONTACT

JEREMIAH SCHIEFELBEIN DNR NE REGIONAL HQ 2984 SHAWANO AVENUE GREEN BAY, WI 54313 PH: (920) 360-3784 Jeremiah.schiefelbein@wisconsin.gov

SHEBOYGAN COUNTY

AARON BRAULT
DIRECTOR
PLANNING AND CONSERVATION
508 NEW YORK AVENUE
SHEBOYGAN, WI 53081
PH: (920) 459-3060
aaron.brault@SheboyganCounty.com

DESIGN CONSULTANT

ASHLEY PRIDEMORE, P.E. STRAND ASSOCIATES, INC. 126 N JEFFERSON STREET MILWAUKEE, WI 53202 PH: (414) 271-0771 ashleypridemore@strand.com

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL
PERMANENT SIGNING AND PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR
ALIGNMENT DETAILS
CONTROL POINT DATA

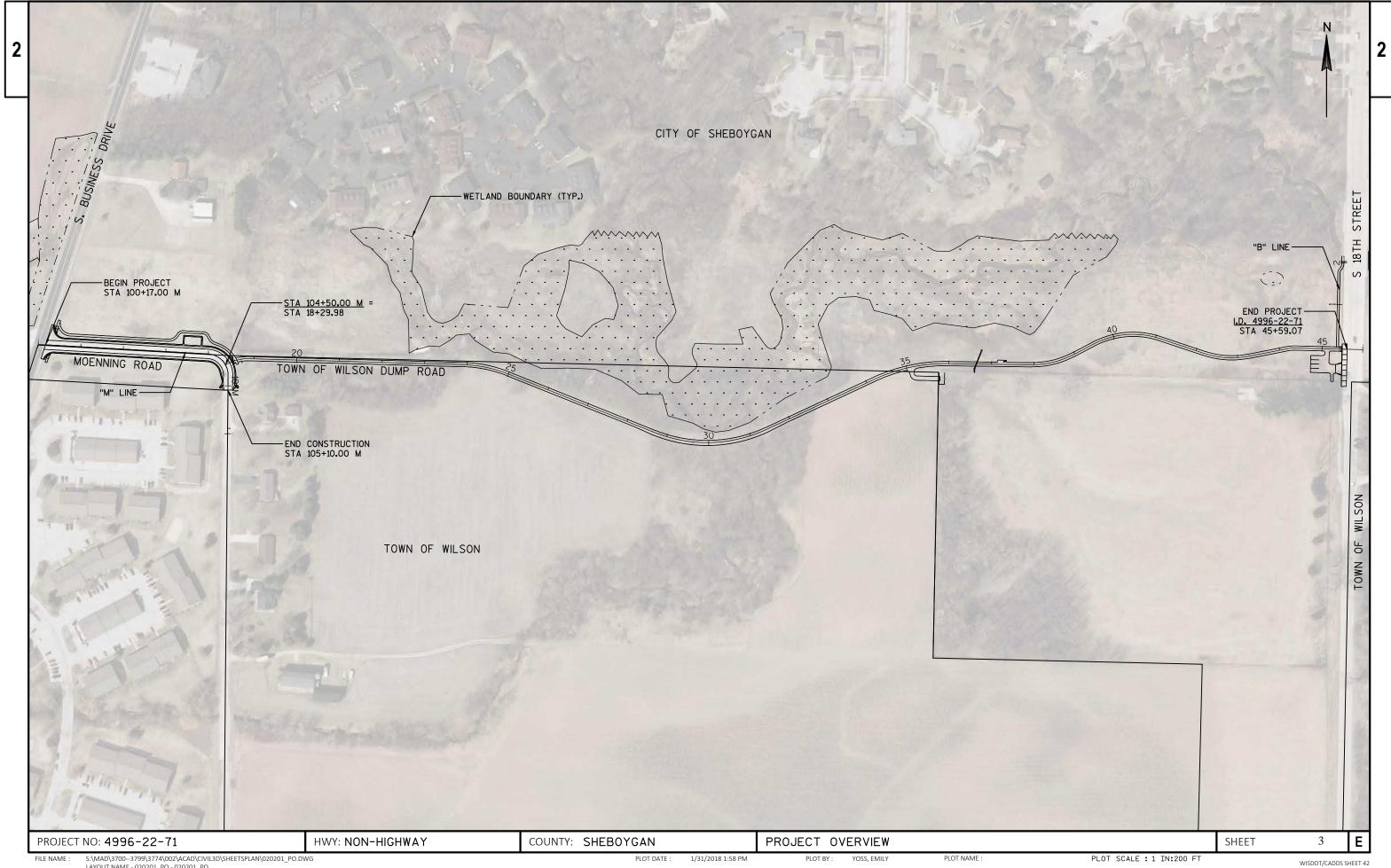
ASPHALTIC PAVING TABLE

	MOENNING RC)AD
UPPER LAYER	1.75"	4 LT 58-28 S
LOWER LAYER	2.25"	3 LT 58-28 S

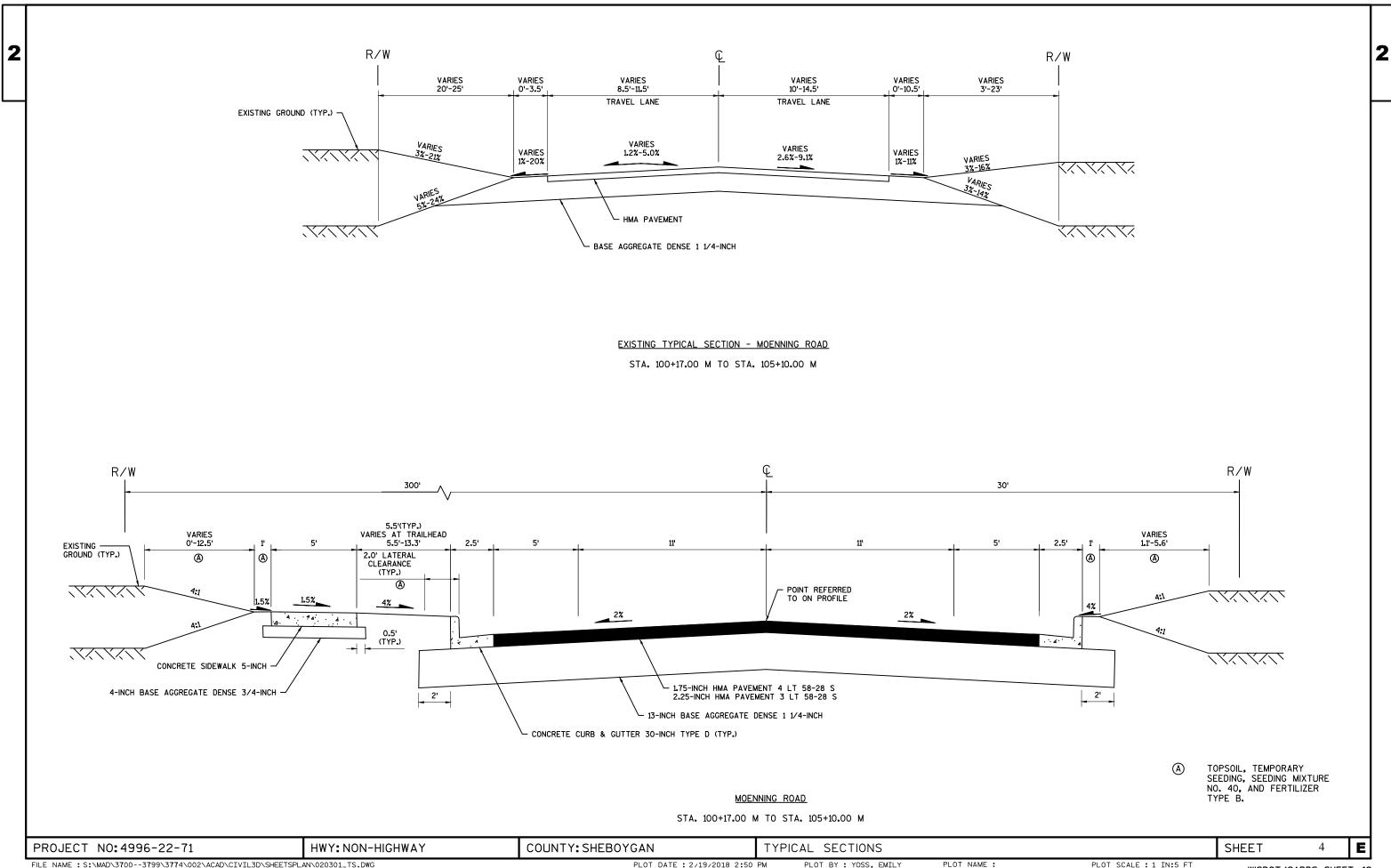
Dial Sil or (800)242-8511
www.DiggersHotline.com

PROJECT NO:4996-22-71 HWY:NON-HIGHWAY COUNTY:SHEBOYGAN GENERAL NOTES SHEET

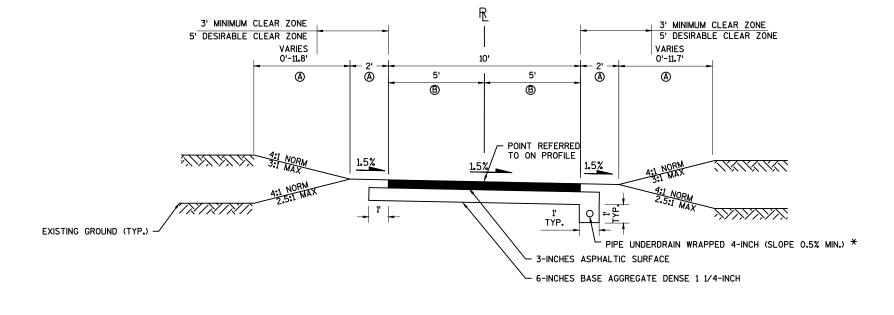
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- (A) TOPSOIL, TEMPORARY SEEDING, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B.
- (SEE PLAN AND PROFILE FOR DIMENSIONS) STA 28+20.47 - STA 31+89.95

* INSTALL AND DAYLIGHT PIPE UNDERDRAIN AT PROPOSED LOW POINTS, SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS

(A) TOPSOIL, TEMPORARY SEEDING, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B.

* INSTALL AND DAYLIGHT PIPE UNDERDRAIN AT PROPOSED LOW POINTS, SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS

SHEET

TYPICAL FINISHED SECTION

STA. 18+59.15 TO STA. 34+65.00

101

3' MINIMUM CLEAR ZONE

VARIES 0'-35.5'

(A)

Ā

5' DESIRABLE CLEAR ZONE

4:1 NORM 3:1 MAX

[7][][][]

EXISTING GROUND (TYP.) -

TYPICAL FINISHED SECTION
STA. 34+65.00 TO STA. 45+59.07

COUNTY: SHEBOYGAN T

TYPICAL SECTIONS

M PLOT BY: YOSS, EMILY

3' MINIMUM CLEAR ZONE

VARIES 0'-39'

(A)

⑻

POINT REFERRED

TO ON PROFILE

TŶP.

3-INCHES ASPHALTIC SURFACE

– 24-INCHES BREAKER RUN – GEOGRID TYPE SR

6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH

5' DESIRABLE CLEAR ZONE

TXTXTXT

PIPE UNDERDRAIN WRAPPED 4-INCH (SLOPE 0.5% MIN.) *

PLOT NAME :

PLOT SCALE : 1 IN:5 FT

WISDOT/CADDS SHEET 42

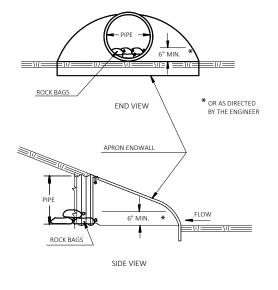
5

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RUNOFF COEFFICIENT TABLE

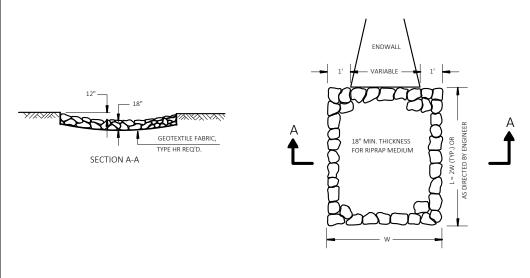
		HYDROLOGIC SOIL GROUP											
		Α			В			С			D		
	SL0PE	RANGE	(PERCENT)	SLOPE	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)				
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIP-	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
TURF	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40	
SIDE SLOPE-			.25			.27			.28			.30	
TURF			.32			.34			.36			.38	
PAVEMENT:													
ASPHALT						.7095							
CONCRETE						.8095							
BRICK						.7080							
DRIVES, WALKS	.7585								·				
ROOFS	.7595												
GRAVEL ROADS,	SHOULDE	ERS				.4060							

TOTAL PROJECT AREA = 41.48 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2.30 ACRES



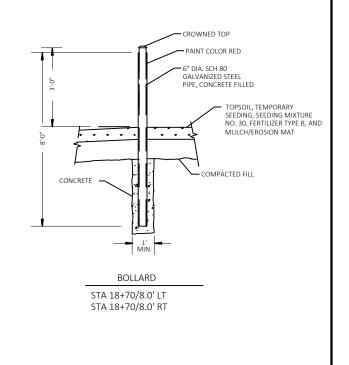
ESTIMATED BAG SIZE = 18" X 12" X 6"					
PIPE SIZE	ESTIMATED NO. OF BAGS				
12"	1				
18"	2				
24"	3				
30"	5				
48"	10				
54"	10				
60"	13				
72**	16				

CULVERT PIPE CHECKS STA 105+34 M/19.1' RT



RIPRAP MEDIUM TREATMENT AT STORM SEWER OUTFALLS AND ASPHALTIC FLUMES

STA 104+97 M/20.7' RT STA 104+96 M/26.0' LT STA 36+77/33.2' LT



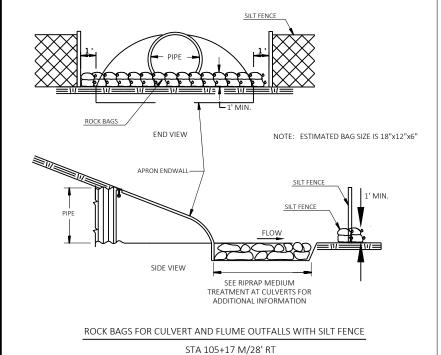
PROJECT NO: 4996-22-71 HWY: NON-HIGHWAY COUNTY: SHEBOYGAN CONSTRUCTION DETAIL PLOT DATE :

SHEET

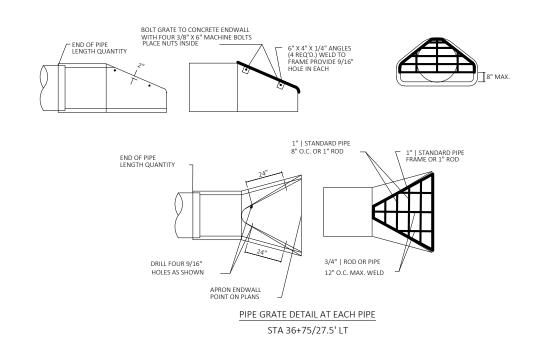
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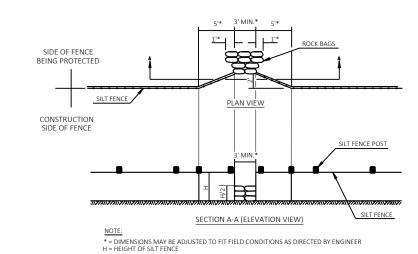
6





STA 105+17 M/32' LT

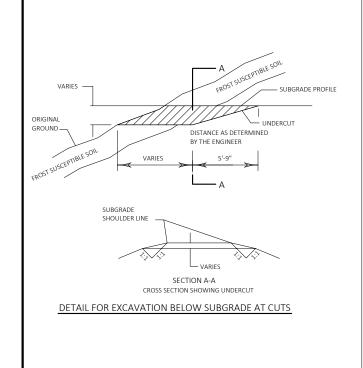




SILT FENCE DRAINAGE RELIEF DETAIL
SEE EROSION CONTROL SHEETS FOR LOCATIONS

Ε

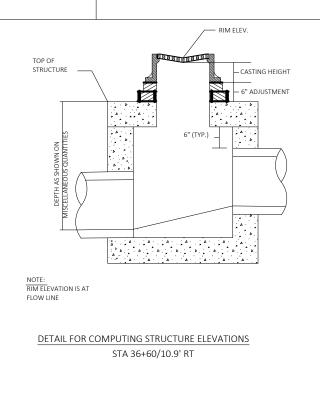
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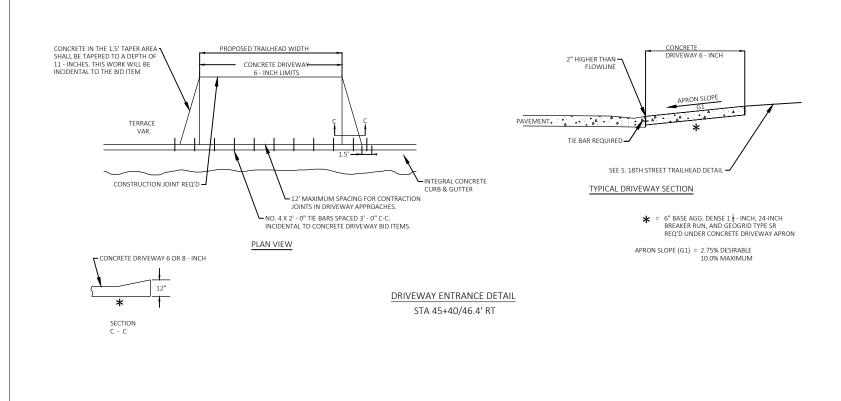
4996-22-71

PROJECT NO:

FILE NAME :



HWY: NON-HIGHWAY



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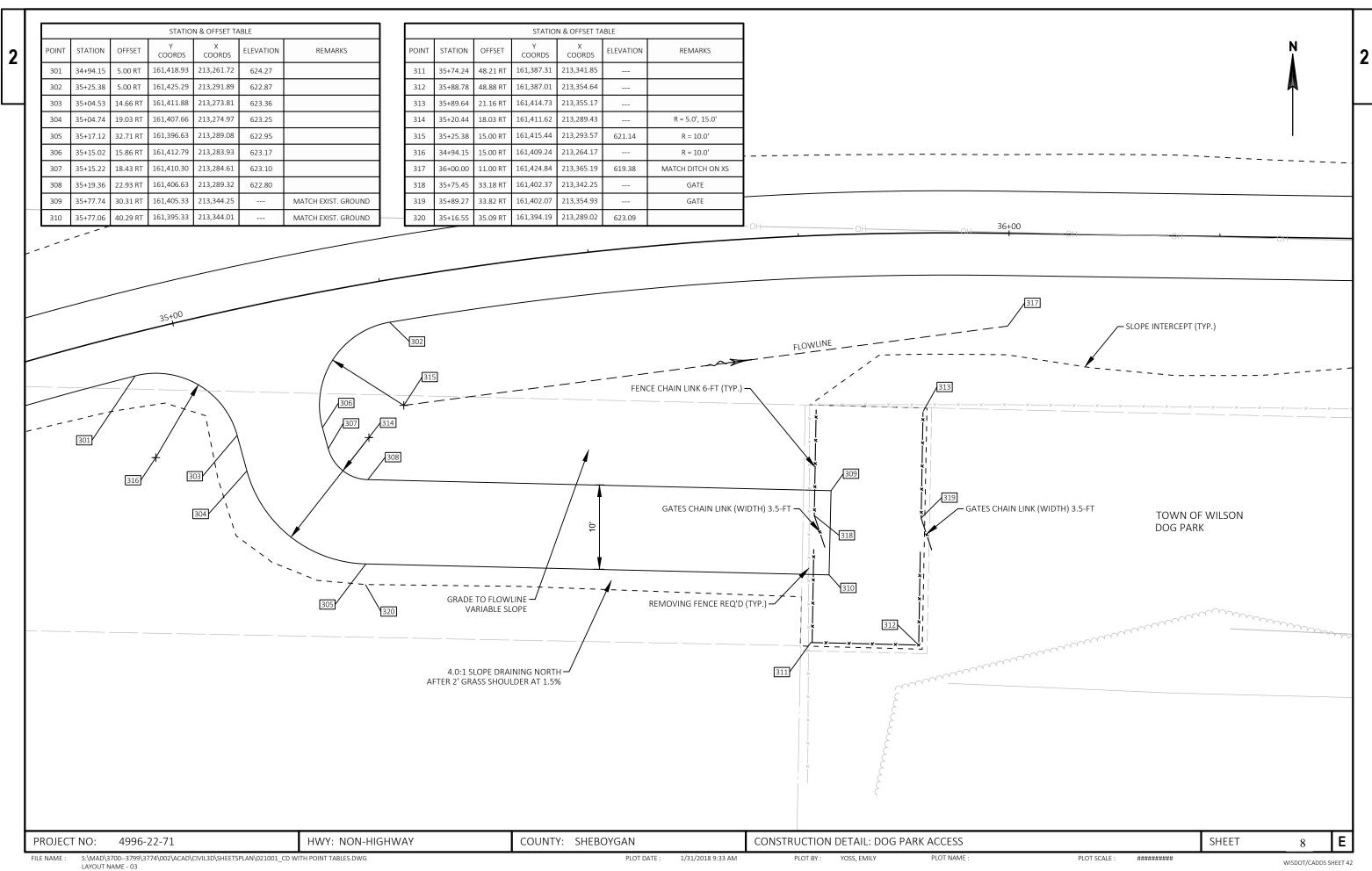
PLOT DATE: 3/16/2018 11:23 AM
PLOT BY: YOSS, EMILY
PLOT NAME: PLOT SCALE: #########

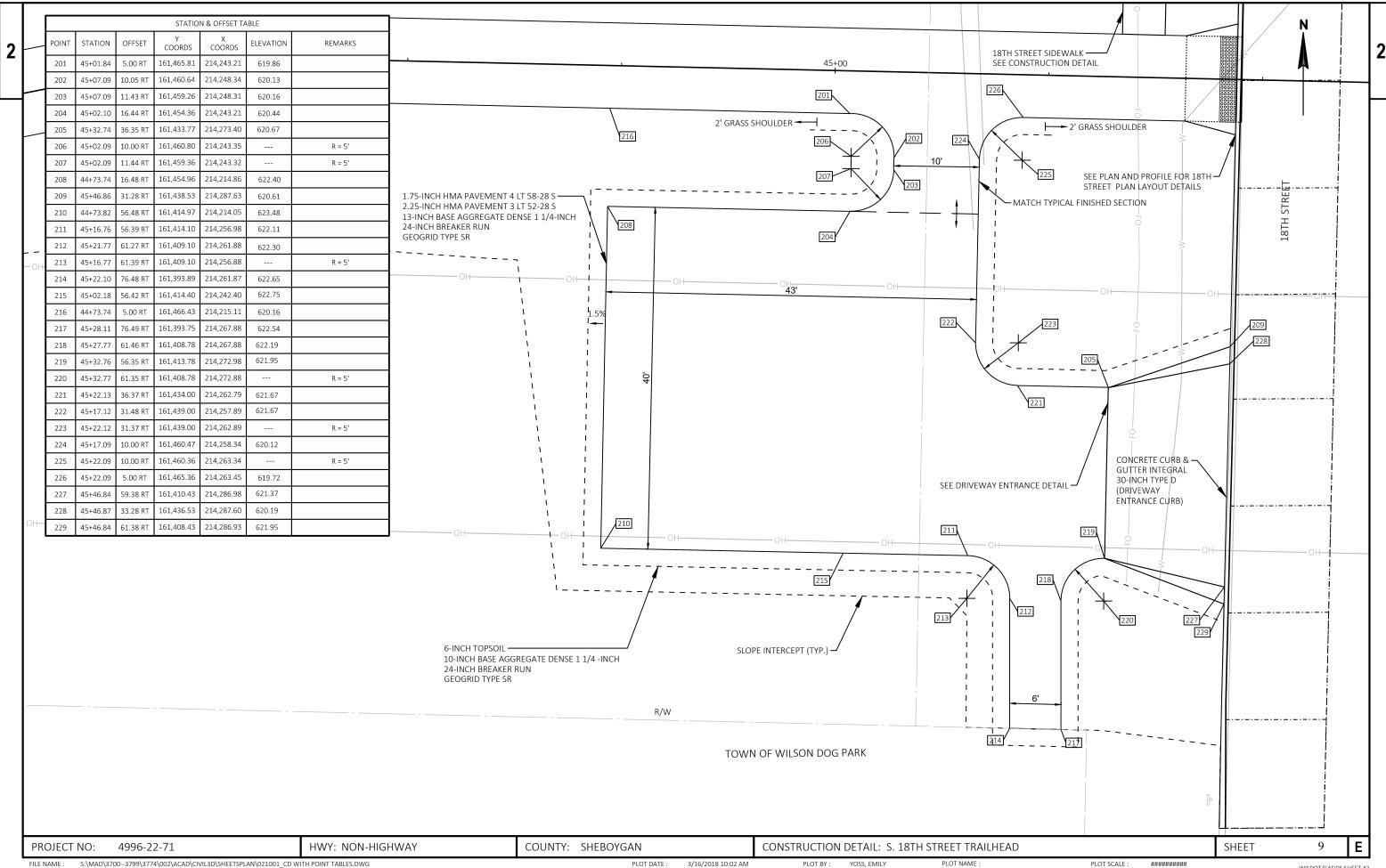
WISDOT/CADDS SHEET 42

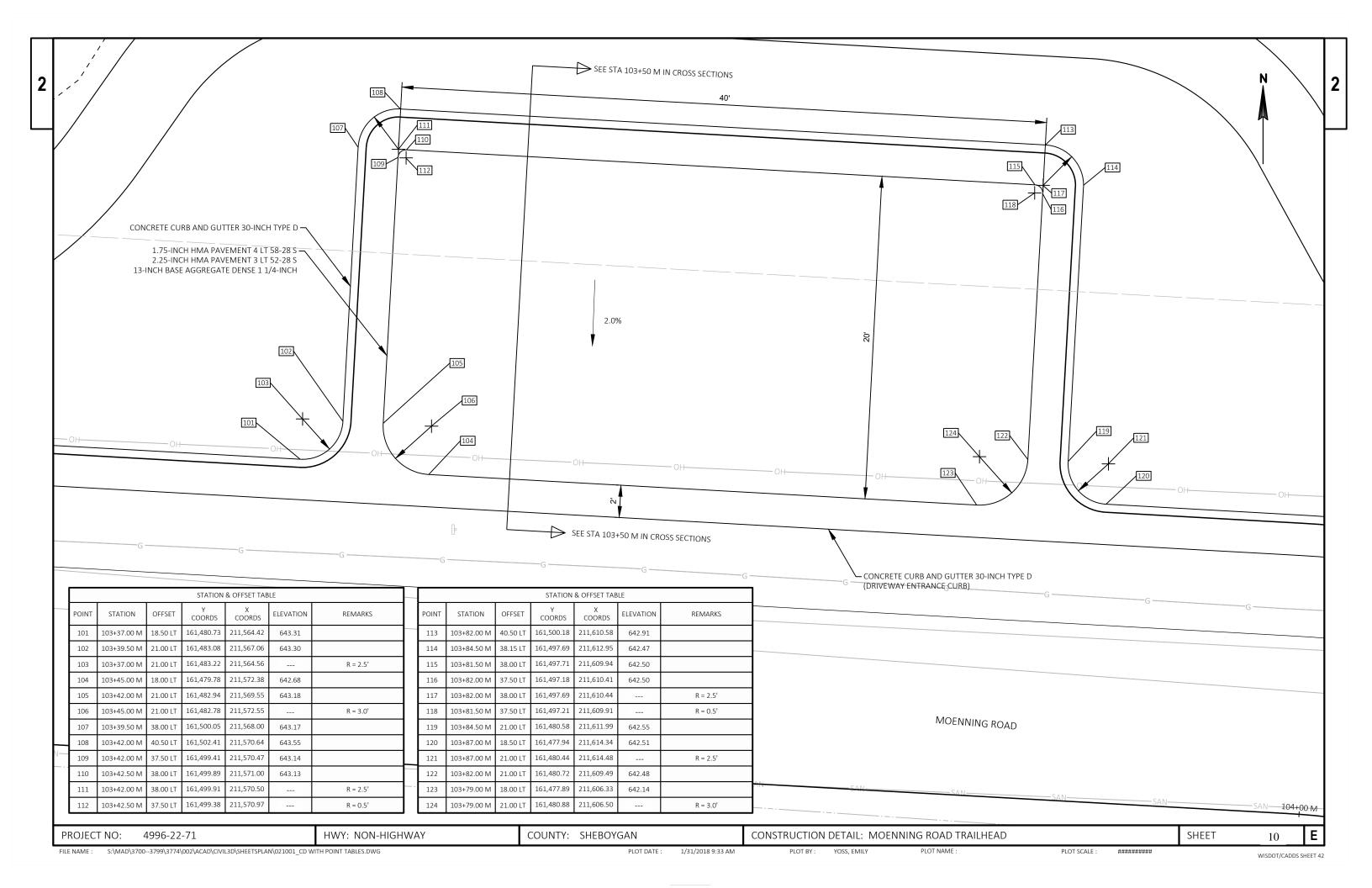
LAYOUT NAME - 02

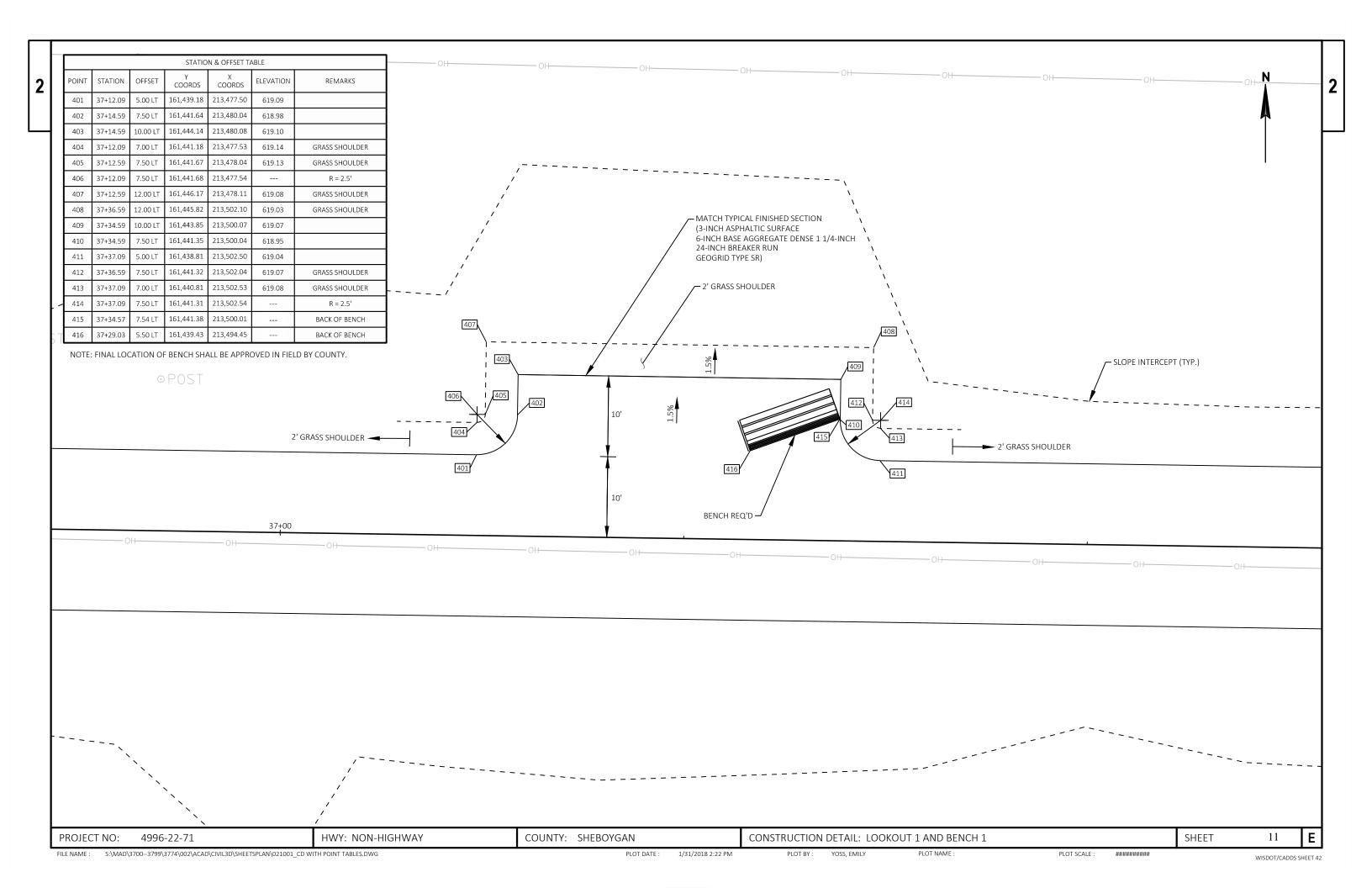
CONSTRUCTION DETAIL

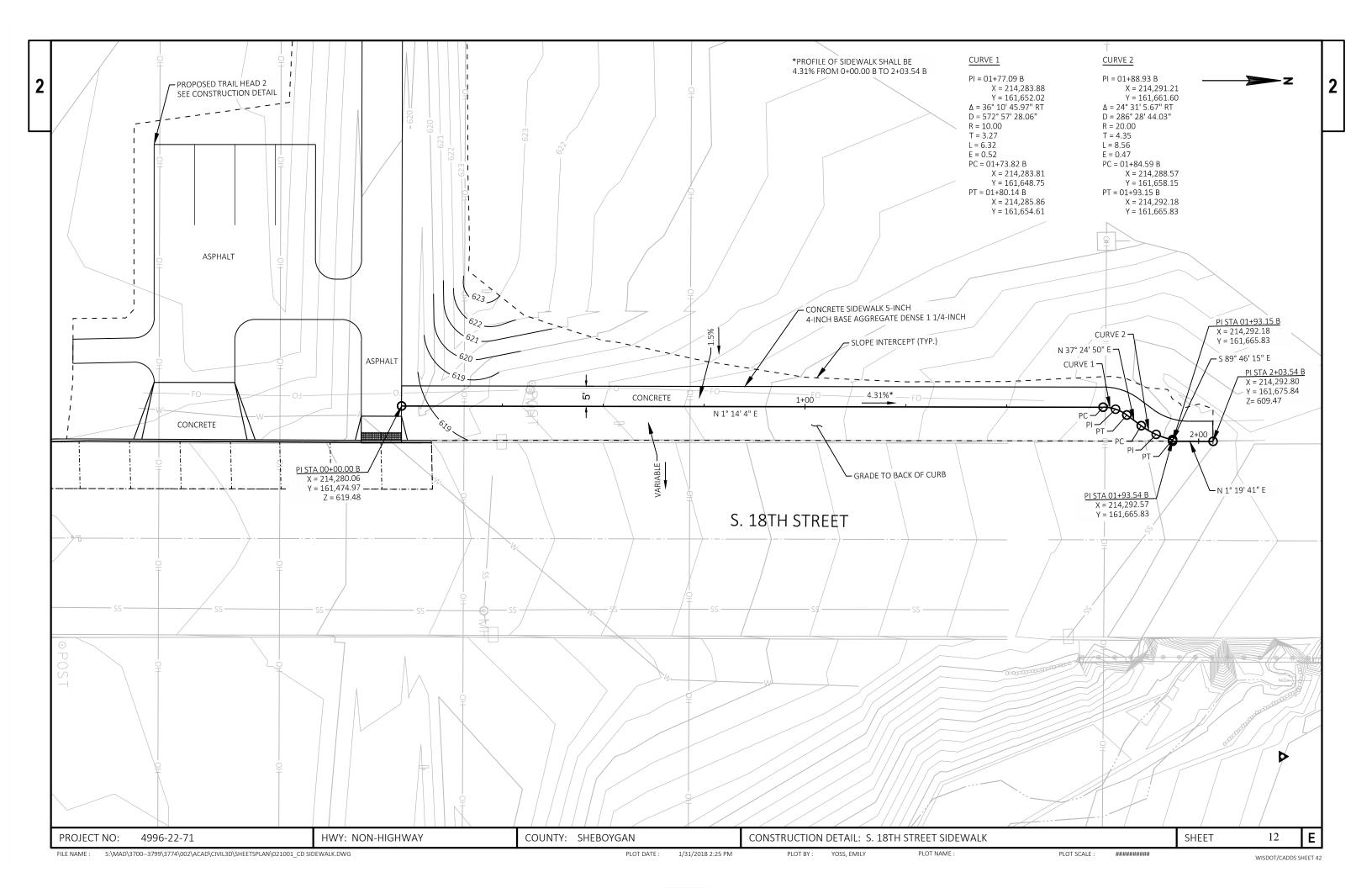
COUNTY: SHEBOYGAN

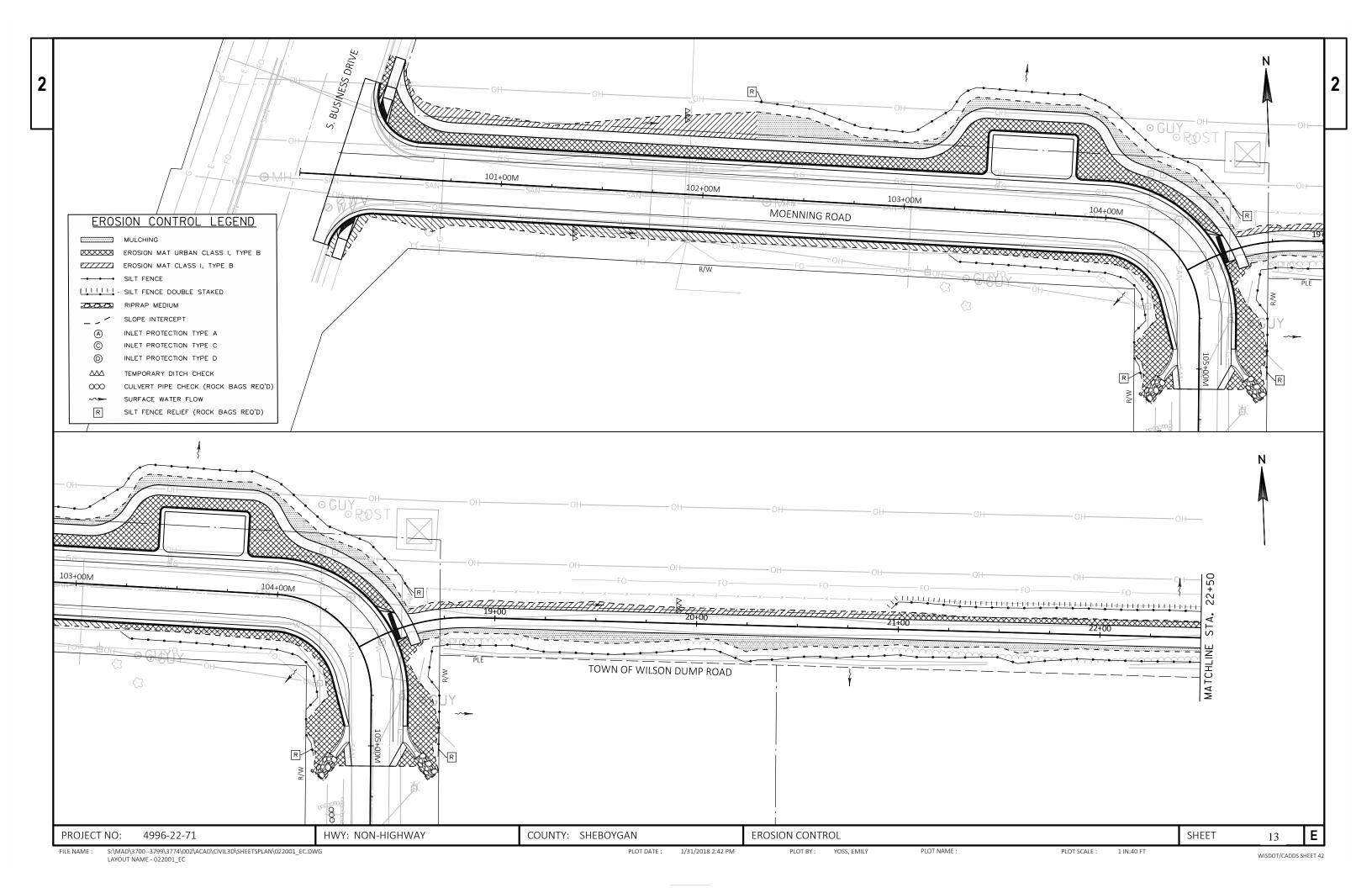


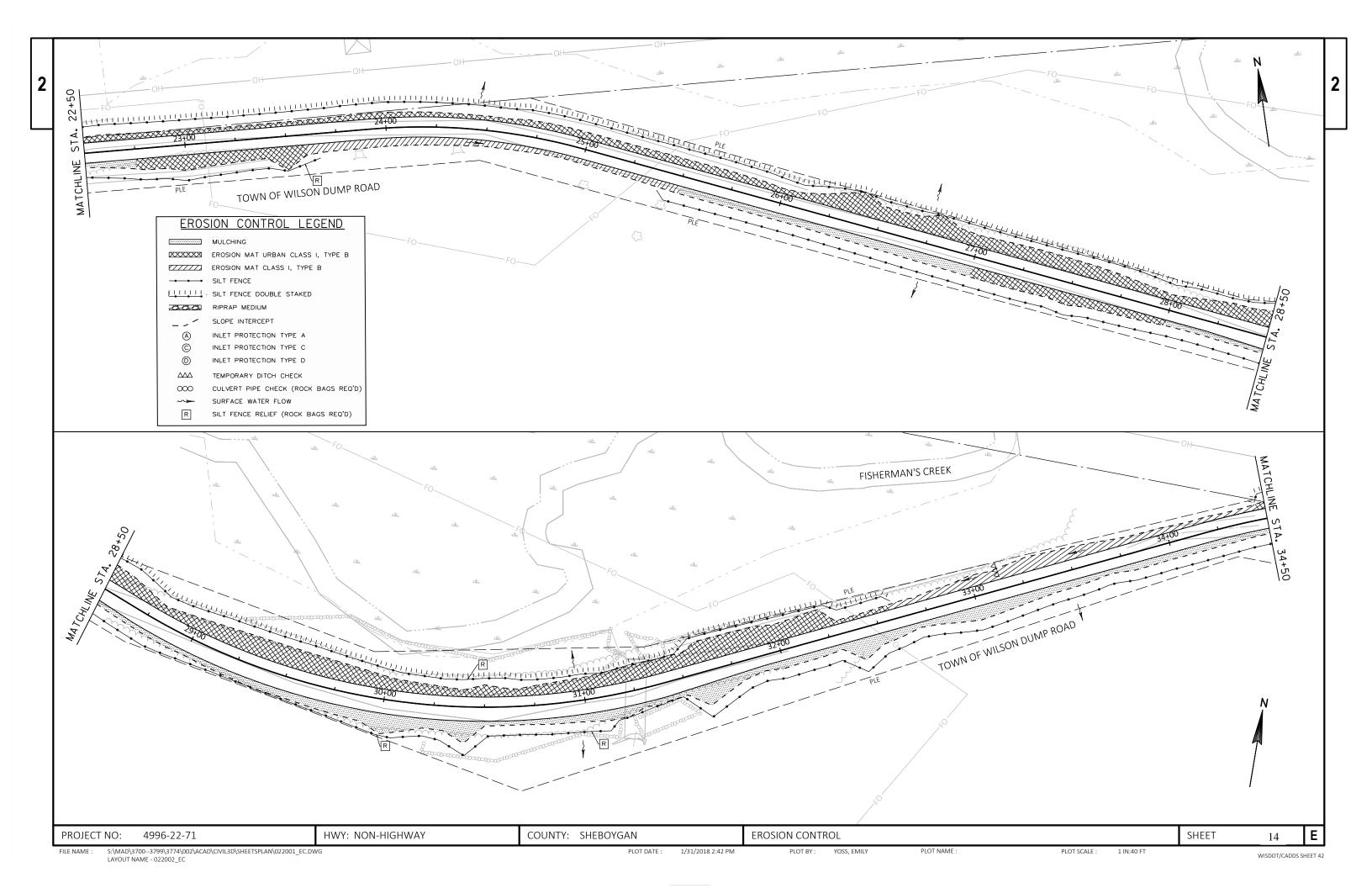


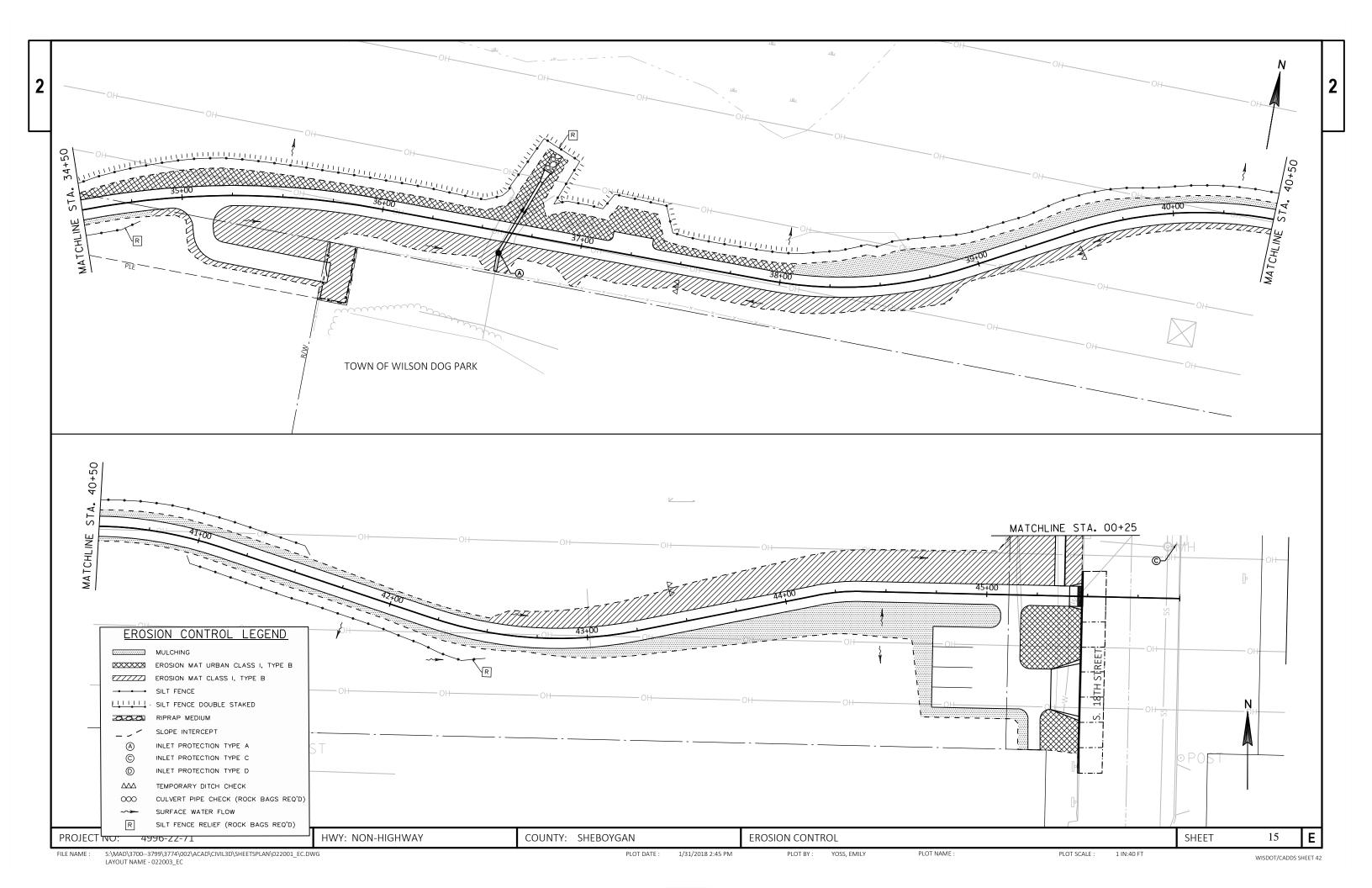


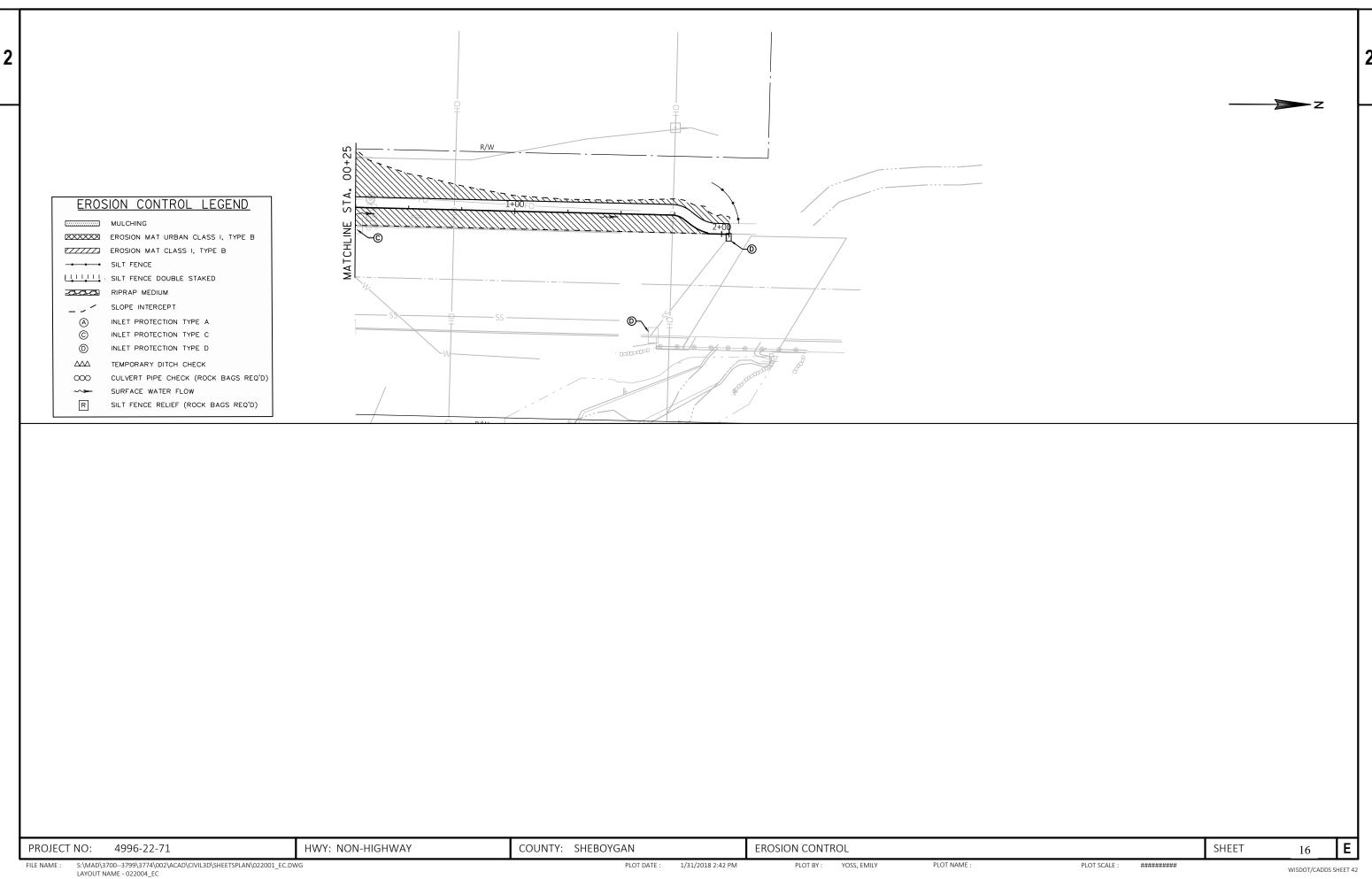




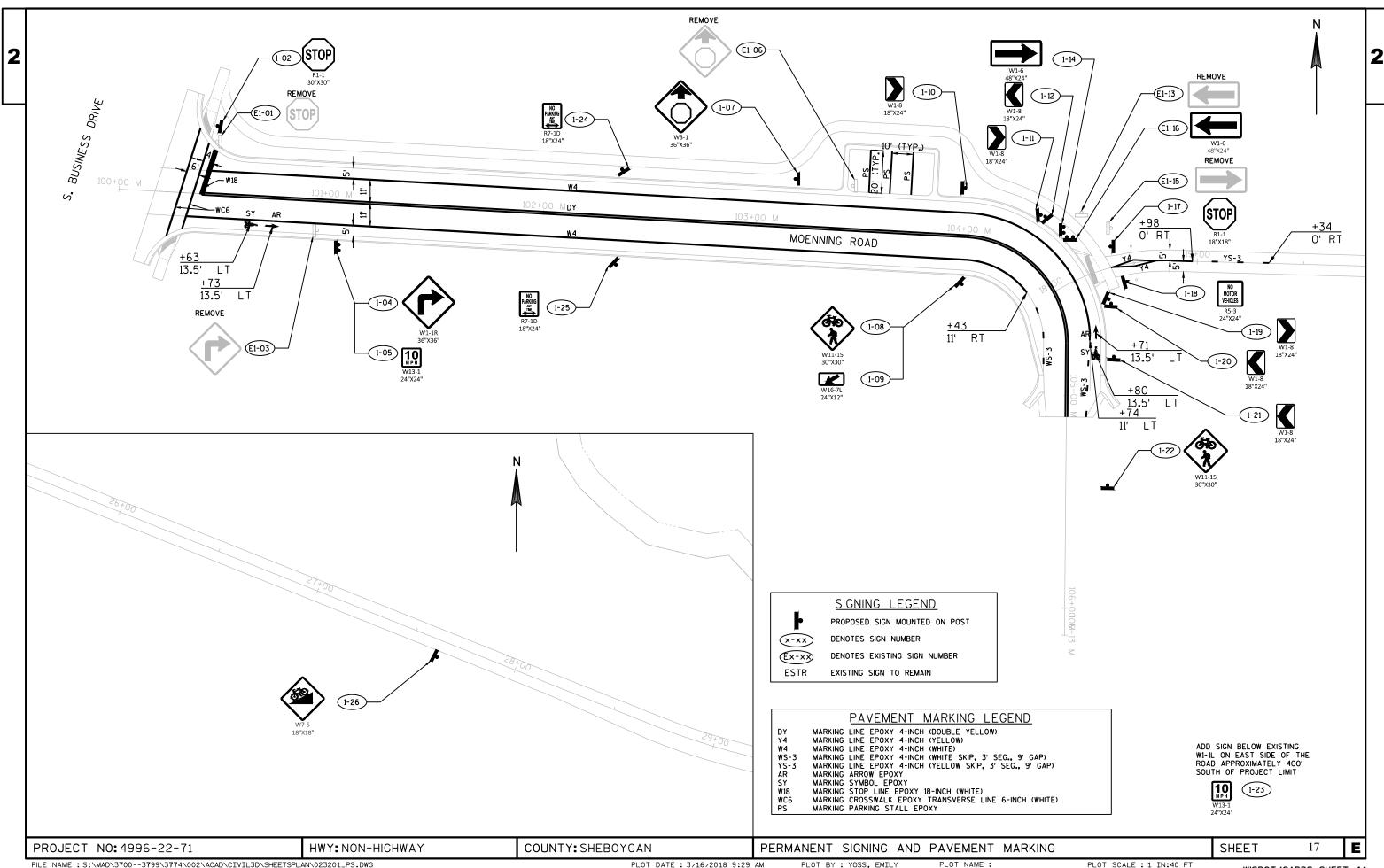


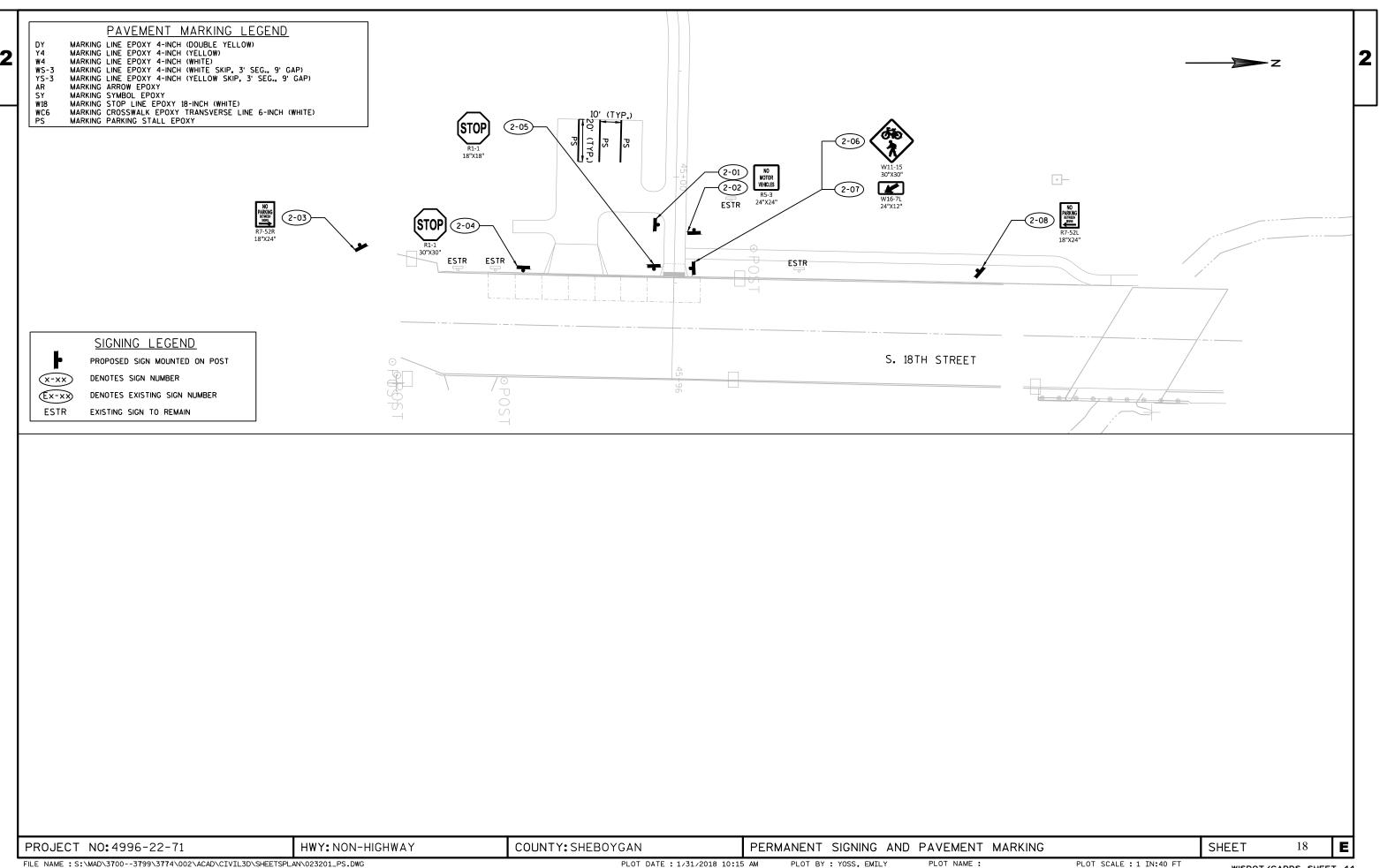


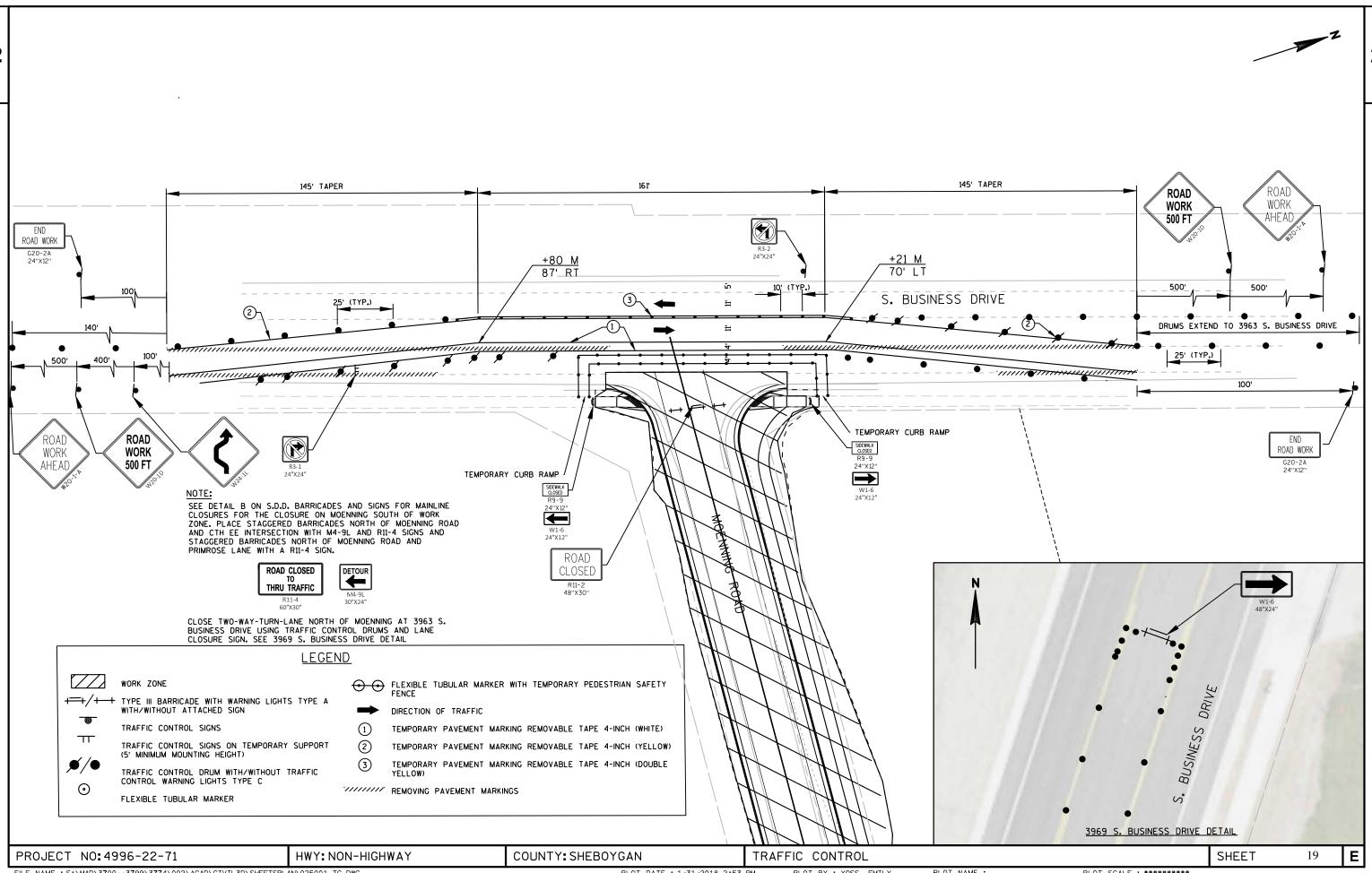


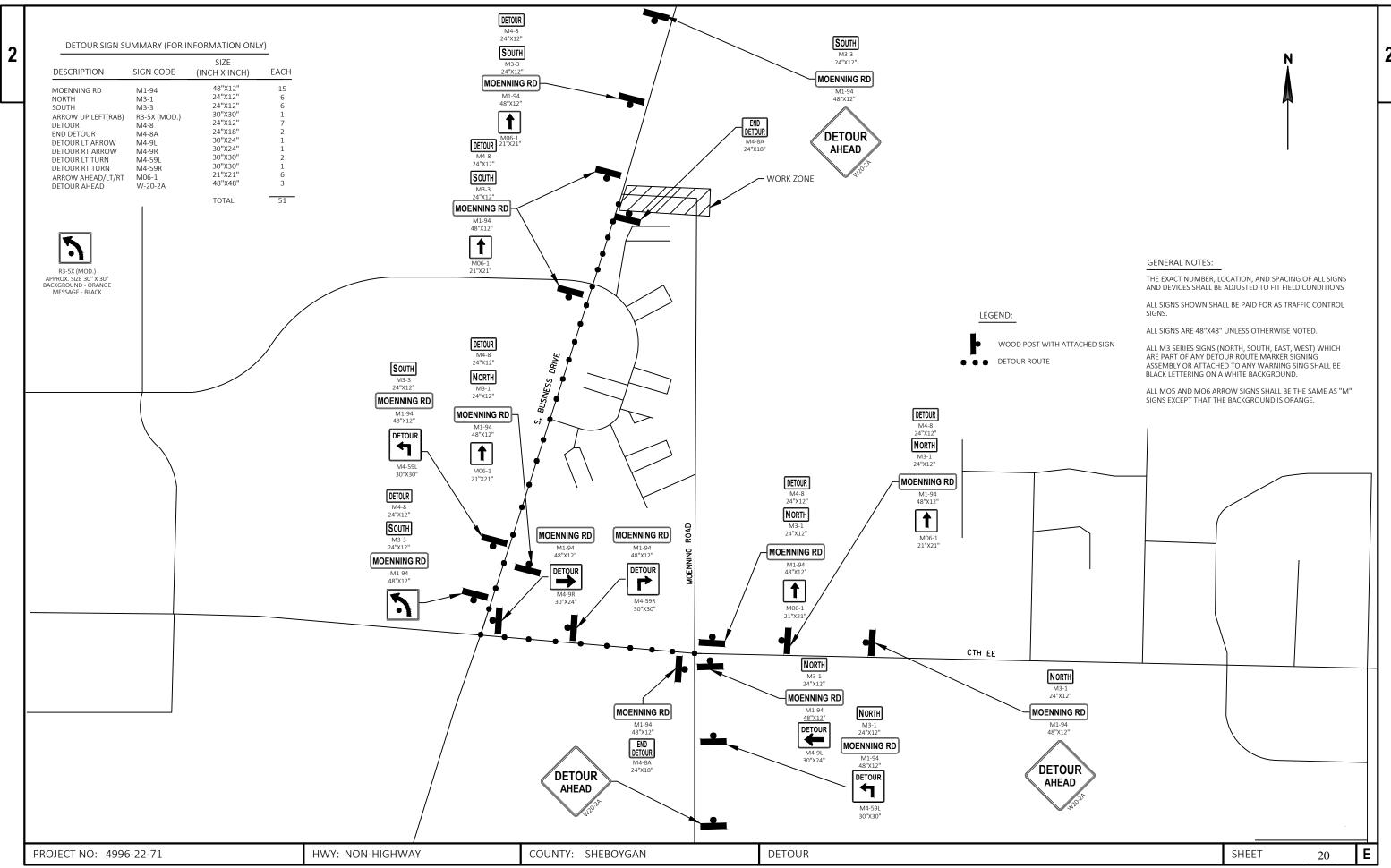


PLOT NAME :



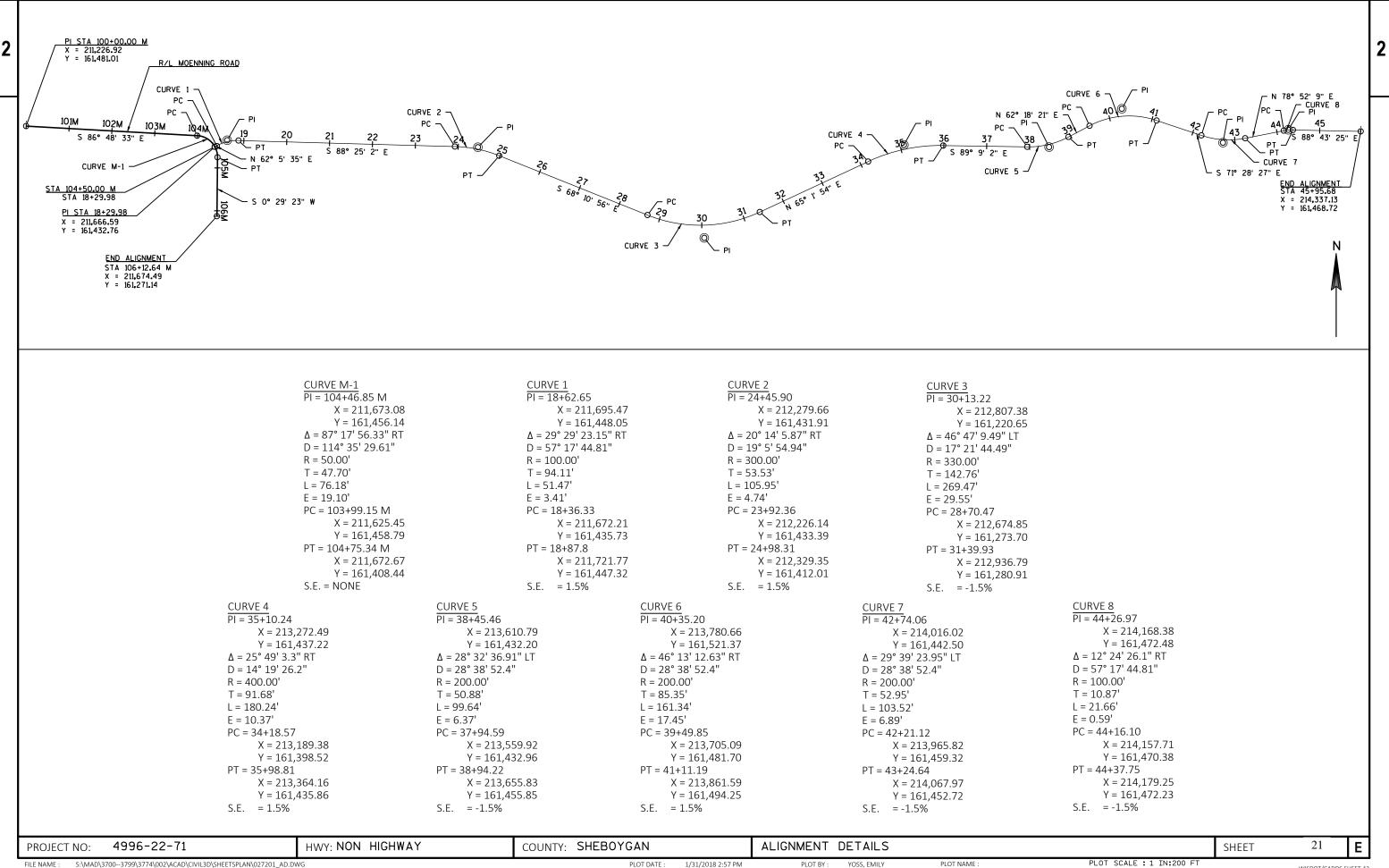


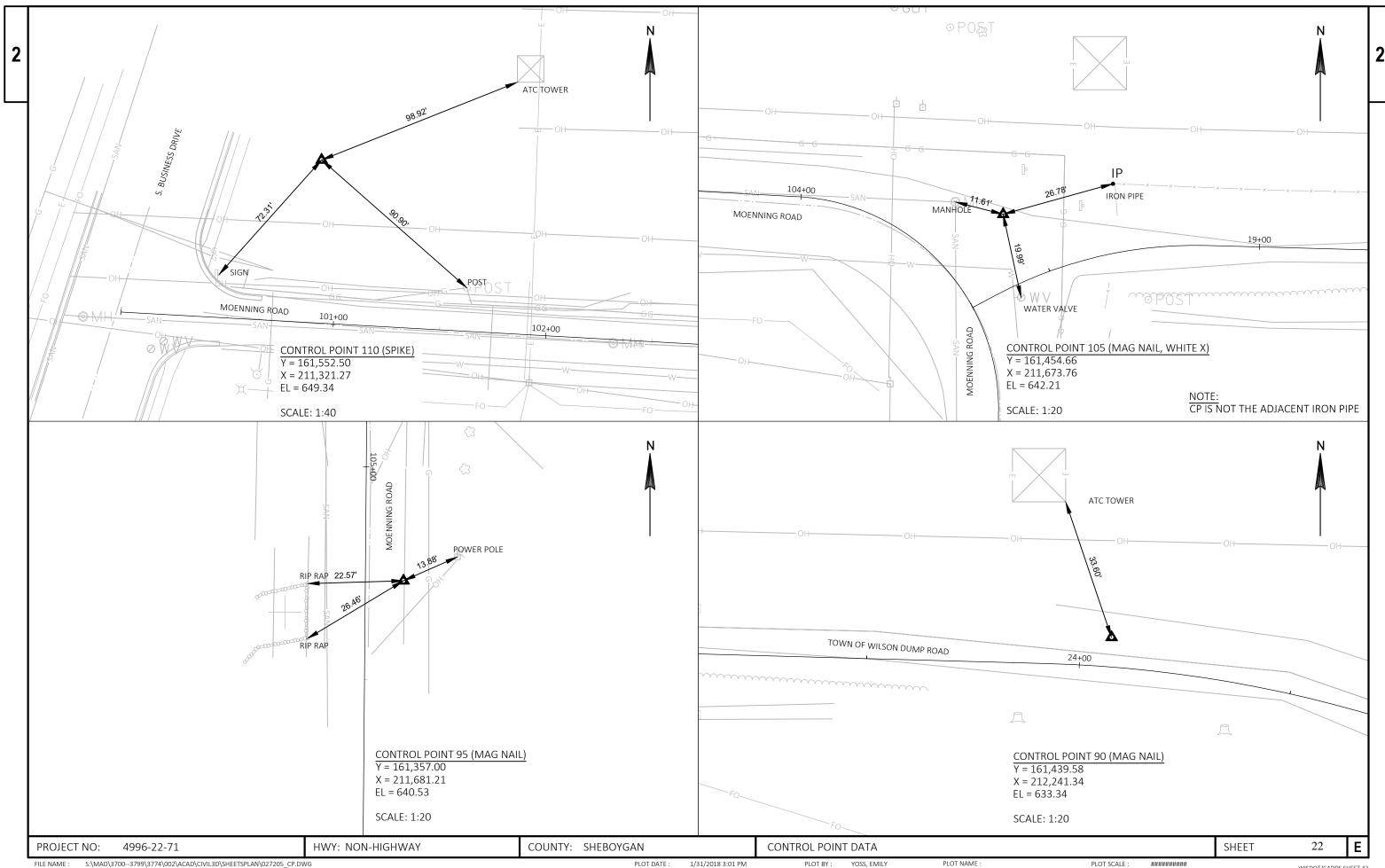


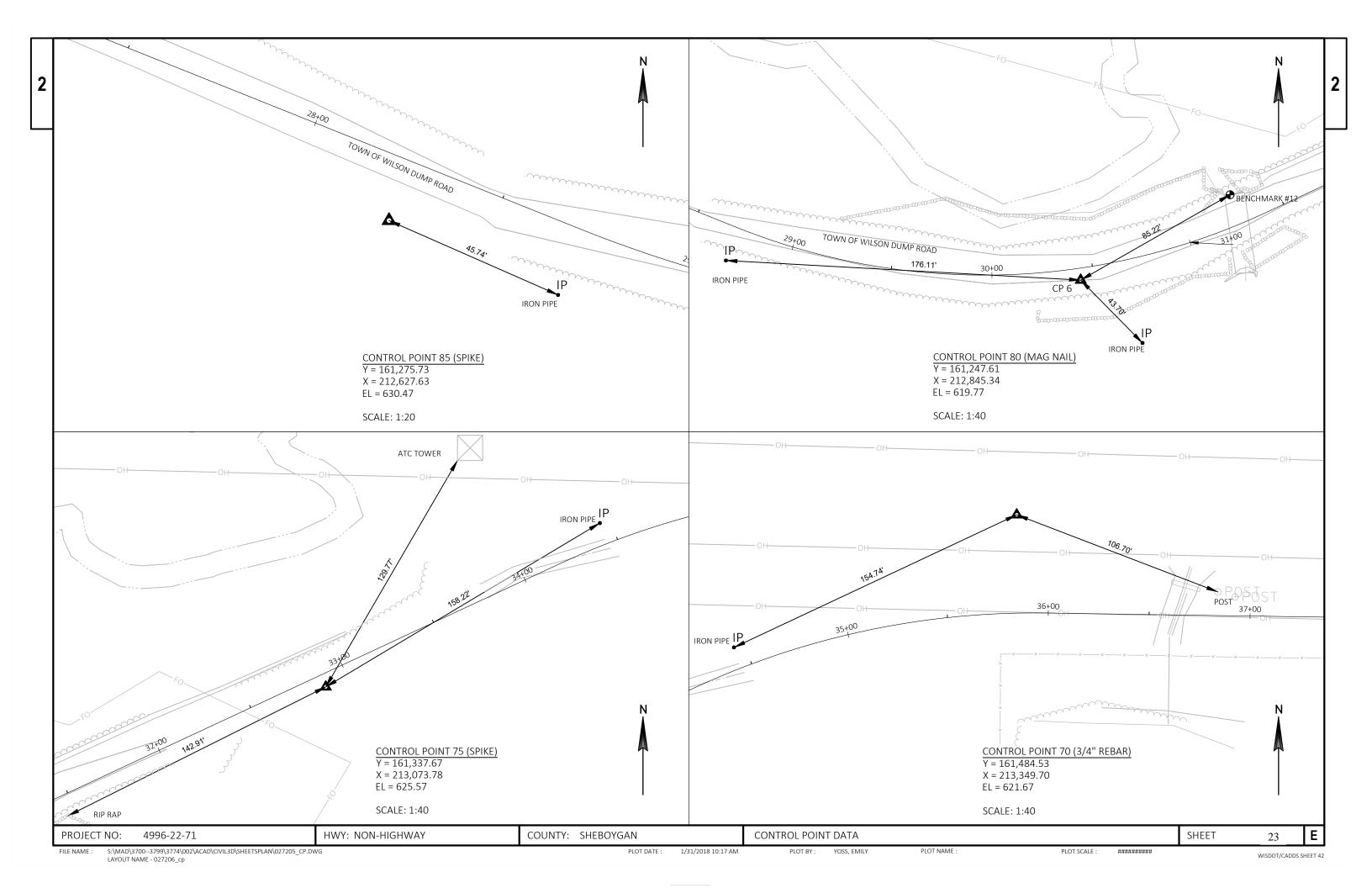


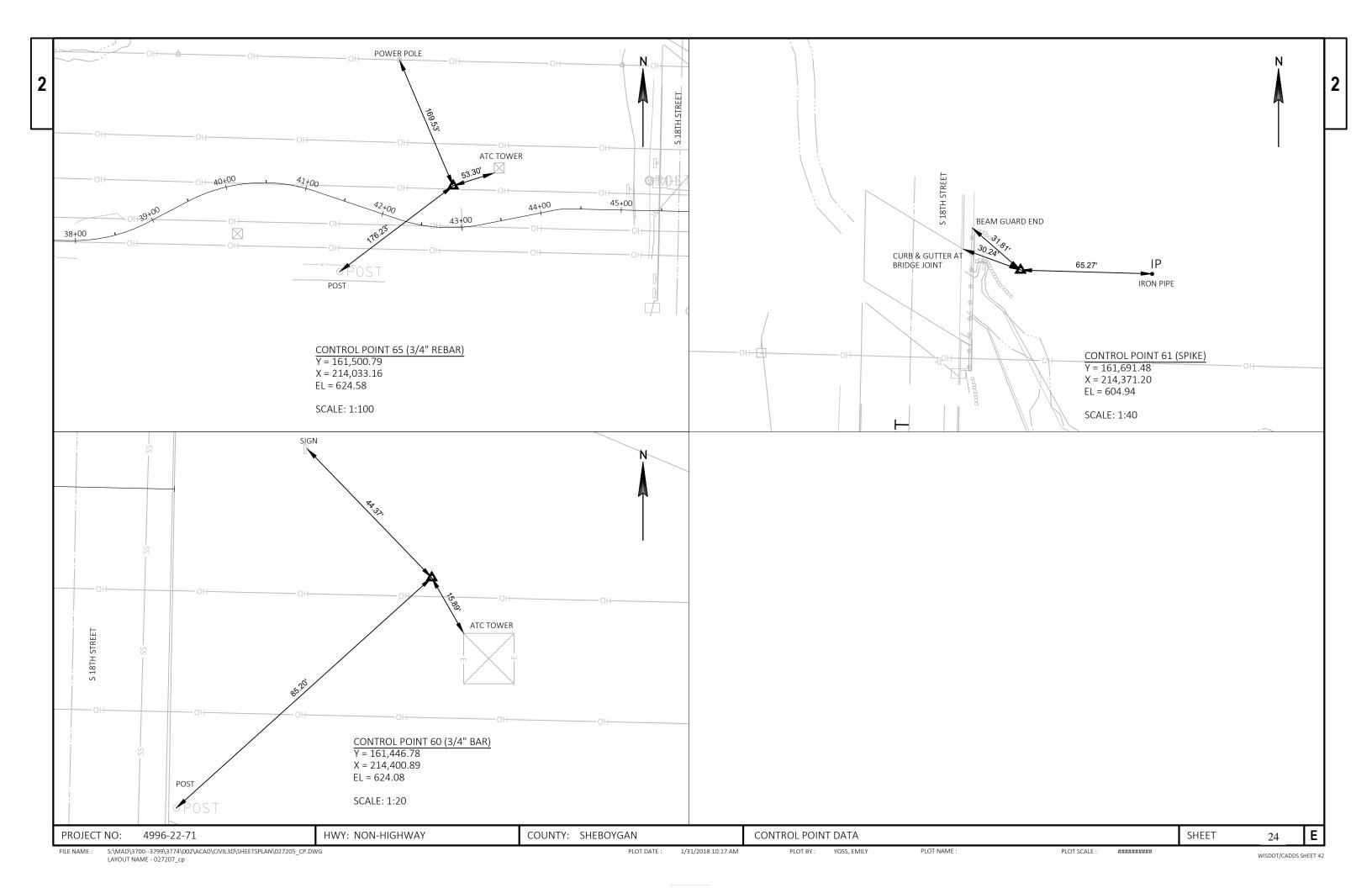
WISDOT/CADDS SHEET 42

LAYOUT NAME - 027001_dt









					4996-22-71
Line	Item	Item Description	Unit	Total	Qty
0002	201.0110	Clearing	SY	199.000	199.000
0004	201.0210	Grubbing	SY	199.000	199.000
0006	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
8000	204.0100	Removing Pavement	SY	135.000	135.000
0010	204.0150	Removing Curb & Gutter	LF	97.000	97.000
0012	204.0155	Removing Concrete Sidewalk	SY	32.000	32.000
0014	204.0170	Removing Fence	LF	28.000	28.000
0016	205.0100	Excavation Common	CY	4,412.000	4,412.000
0018	208.0100	Borrow	CY	206.000	206.000
0020	213.0100	Finishing Roadway (project) 01. 4996-22-71	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	126.000	126.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	3,465.000	3,465.000
0026	311.0110	Breaker Run	TON	2,754.000	2,754.000
0028	415.0070	Concrete Pavement 7-Inch	SY	107.000	107.000
0030	416.0160	Concrete Driveway 6-Inch	SY	39.000	39.000
0032	416.0610	Drilled Tie Bars	EACH	39.000	39.000
0034	416.0620	Drilled Dowel Bars	EACH	18.000	18.000
0036	455.0605	Tack Coat	GAL	213.000	213.000
0038	460.5223	HMA Pavement 3 LT 58-28 S	TON	261.000	261.000
0040	460.5224	HMA Pavement 4 LT 58-28 S	TON	207.000	207.000
0040	465.0105	Asphaltic Surface	TON	525.000	525.000
0044	465.0315	Asphaltic Flumes	SY	14.000	14.000
0044	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000
0048	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete	EACH	1.000	1.000
30-10	022.1010	18-Inch	L/ (OI I	1.000	1.000
0050	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	1,035.000	1,035.000
0052	601.0452	Concrete Curb & Gutter Integral 30-Inch Type D	LF	100.000	100.000
0054	602.0410	Concrete Sidewalk 5-Inch	SF	3,560.000	3,560.000
0056	602.0415	Concrete Sidewalk 6-Inch	SF	240.000	240.000
0058	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	48.000	48.000
0060	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	34.000	34.000
0062	606.0200	Riprap Medium	CY	13.000	13.000
0064	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-	LF	49.000	49.000
500 1	000.0410	Inch	Li	+5.000	75.000
0066	611.0609		EACH	1.000	1.000
		• •			
		•			
0066 0068 0070 0072 0074 0076	611.0609 611.2004 611.9800.S 612.0404 616.0206 616.0329	Inch Inlet Covers Type B-A Manholes 4-FT Diameter	EACH EACH EACH LF LF EACH	1.000 1.000 1.000 225.000 66.000 2.000	1.000 1.000 1.000 225.000 66.000 2.000

Page	2
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					4996-22-71
Line	Item	Item Description	Unit	Total	Qty
0078	619.1000	Mobilization	EACH	1.000	1.000
080	623.0200	Dust Control Surface Treatment	SY	7,300.000	7,300.000
0082	624.0100	Water	MGAL	165.000	165.000
0084	625.0100	Topsoil	SY	6,030.000	6,030.000
0086	627.0200	Mulching	SY	1,688.000	1,688.000
0088	628.1504	Silt Fence	LF	3,383.000	3,383.000
0090	628.1520	Silt Fence Maintenance	LF	11,165.000	11,165.000
0092	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0094	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0094	628.2004	Erosion Mat Class I Type B	SY	2,275.000	2,275.000
0090	628.2004	Erosion Mat Urban Class I Type B	SY	2,063.000	2,063.000
0100	628.7005	Inlet Protection Type A	EACH	2.000	2.000
0100	628.7015	• •	EACH		3.000
0102	628.7013	Inlet Protection Type C Inlet Protection Type D	EACH	3.000	3.000
0104		• • • • • • • • • • • • • • • • • • • •		3.000	
	628.7504	Temporary Ditch Checks	LF	120.000	120.000
0108	628.7555	Culvert Pipe Checks	EACH	2.000	2.000
0110	628.7560	Tracking Pads	EACH	3.000	3.000
0112	628.7570	Rock Bags	EACH	166.000	166.000
0114	629.0210	Fertilizer Type B	CWT	3.900	3.900
0116	630.0130	Seeding Mixture No. 30	LB	90.000	90.000
0118	630.0140	Seeding Mixture No. 40	LB	19.000	19.000
0120	630.0200	Seeding Temporary	LB	170.000	170.000
0122	634.0808	Posts Tubular Steel 2x2-Inch X 8-FT	EACH	6.000	6.000
0124	634.0810	Posts Tubular Steel 2x2-Inch X 10-FT	EACH	5.000	5.000
0126	634.0812	Posts Tubular Steel 2x2-Inch X 12-FT	EACH	13.000	13.000
0128	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	4.000	4.000
0130	637.2210	Signs Type II Reflective H	SF	38.080	38.080
0132	637.2230	Signs Type II Reflective F	SF	85.000	85.000
0134	638.2602	Removing Signs Type II	EACH	5.000	5.000
0136	638.3000	Removing Small Sign Supports	EACH	5.000	5.000
0138	642.5201	Field Office Type C	EACH	1.000	1.000
0140	643.0300	Traffic Control Drums	DAY	4,500.000	4,500.000
0142	643.0420	Traffic Control Barricades Type III	DAY	600.000	600.000
0144	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	51.000	51.000
0146	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	51.000	51.000
0148	643.0705	Traffic Control Warning Lights Type A	DAY	1,320.000	1,320.000
0150	643.0715	Traffic Control Warning Lights Type C	DAY	840.000	840.000
0152	643.0900	Traffic Control Signs	DAY	1,140.000	1,140.000
0154	643.1050	Traffic Control Signs PCMS	DAY	240.000	240.000
0156	643.5000	Traffic Control	EACH	1.000	1.000

					4996-22-71
Line	Item	Item Description	Unit	Total	Qty
0158	644.1410.S	Temporary Pedestrian Surface Asphalt	SF	40.000	40.000
0160	644.1601.S	Temporary Curb Ramp	EACH	2.000	2.000
0162	644.1616.S	Temporary Pedestrian Safety Fence	LF	290.000	290.000
0164	645.0120	Geotextile Type HR	SY	48.000	48.000
0166	645.0220	Geogrid Type SR	SY	1,938.000	1,938.000
0168	646.1020	Marking Line Epoxy 4-Inch	LF	1,871.000	1,871.000
0170	646.5020	Marking Arrow Epoxy	EACH	2.000	2.000
0172	646.5220	Marking Symbol Epoxy	EACH	2.000	2.000
0174	646.6120	Marking Stop Line Epoxy 18-Inch	LF	22.000	22.000
0176	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	95.000	95.000
0178	646.8320	Marking Parking Stall Epoxy	LF	120.000	120.000
0180	646.9000	Marking Removal Line 4-Inch	LF	560.000	560.000
0182	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,525.000	1,525.000
0184	650.4000	Construction Staking Storm Sewer	EACH	1.000	1.000
0186	650.4500	Construction Staking Subgrade	LF	3,470.000	3,470.000
0188	650.5000	Construction Staking Base	LF	3,470.000	3,470.000
0190	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,135.000	1,135.000
0192	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0194	650.9000	Construction Staking Curb Ramps	EACH	4.000	4.000
0196	650.9910	Construction Staking Supplemental Control (project) 01. 4996-22-71	LS	1.000	1.000
0198	650.9920	Construction Staking Slope Stakes	LF	3,400.000	3,400.000
0200	690.0150	Sawing Asphalt	LF	115.000	115.000
0202	690.0250	Sawing Concrete	LF	140.000	140.000
0204	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0206	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	150.000	150.000
0208	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0210	SPV.0060	Special 01. Bollard	EACH	2.000	2.000
0212	SPV.0060	Special 02. Foldable Bollard	EACH	1.000	1.000
0214	SPV.0060	Special 03. Bench	EACH	1.000	1.000
0216	SPV.0090	Special 01. Construction Staking Concrete Sidewalk	LF	709.000	709.000
0218	SPV.0090	Special 02. Silt Fence Double Staked	LF	2,200.000	2,200.000
0220	SPV.0170	Special 01. Test Rolling	STA	16.000	16.000

REMOVING SMALL PIPE CULVERTS

			203.0100	
CATEGORY	STATION	LOCATION	EACH	REMARKS
0010	36+60	RT	1	8'18" RCCP

CLEARING & GRUBBING

			201.0110	201.0210
			CLEARING	GRUBBING
CATEGORY	STATION - STATION	LOCATION	SY	SY
0010	19+17 - 20+83	RT	39	39
	22+62 - 23+76	R⊤	76	76
	26+30 - 28+70	LT	28	28
	28+85 - 32+04	RT	55	55
	•	TOTALS	199	199

REMOVING PAVEMENT

			204.0100	
CATEGORY	STATION - STATION	LOCATION	SY	
0010	45+47 - 45+59	LT/RT	135	

REMOVING CURB & GUTTER

						204.0150
	CATEGORY	STATION	_	STATION	LOCATION	LF
•						
	0010	100+16M	-	100+47M	RT	42
		100+38M	-	100+66M	LT	55
					TOTAL	97

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION - STATION	LOCATION	204.0155 SY
0010	100+18M - 100+31M	RT	13
	100+36M - 100+48M	LT TOTAL	19

REMOVING FENCE

			204.0170
CATEGORY	STATION	LOCATION	LF
0010	35+74	RT	28

Ε COUNTY: SHEBOYGAN SHEET PROJECT NO: 4996-22-71 HWY: NON-HIGHWAY MISCELLANEOUS QUANTITIES 28

FILE NAME : S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030201

PLOT DATE : 1/31/2018 10:17 AM

PLOT BY: YOSS, EMILY

PLOT NAME :

EARTHWORK SUMMARY

								(4)		(5)	(6)	(7)	
				(1)(E)	(2)	SALVAGED/		110.0%		100.0%	**	MASS	
				UNDISTRIBUTED	205.0100	USABLE	(3)	EXPANDED		***	120.00%	ORDINATE	(8)
			(C)	EBS	EXCAVATION	PAVEMENT	AVAILABLE	EBS	UNEXPANDED	311.0110	EXPANDED	EXCESS	208.0100
			CUT	EXCAVATION	COMMON	MATERIAL	MATERIAL	BACKFILL	FILL	BREAKER RUN	FILL	(SHORTAGE)	BORROW
CATEGORY	LOCATION	STA TO STA	CY	CY	CY	CY	CY	CY	CY	TON*	CY	CY	CY
0010	SHEBOYGAN BIKE PATH	19+00 - 45+59	2,403	120	2,523			132	143	231	172	(172)	172
	MOENNING ROAD	100+36M - 105+10M	1,474	74	1,548	140	140	81	145	142	174	(34)	34
	18TH STREET PARKING LOT	44+74 - 45+33	297	15	312			17		29			
	18TH STREET SIDEWALK	45+33 - 45+47	28	1	29			1		2			
_	TOTALS	·	4,202	210	4,412	140	140	231	288	404	346	(206)	206

<u>NOTES</u>

8) BORROW SHALL BE BROUGHT IN FROM OFF SITE

FINISHING ROADWAY (PROJECT) 4996-22-71

CATEGORY	PROJECT	213.0100 EACH
0010	4996-22-71	1

* CY TO TON CONVERSION FACTOR = 1.75 TON/CY

TEST ROLLING

		SPV.0170.01
CATEGORY	STATION - STATION	STA
0010	18+48 - 34+65	16

HWY: NON-HIGHWAY 29 PROJECT NO: 4996-22-71 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET PLOT NAME :

¹⁾ UNDISTRIBUTED EBS EXCAVATION (E) = 5% OF CUT (C). SOILS REMOVED AS EBS SHALL BE HAULED OFFSITE AND NOT REUSED AS FILL.

²⁾ EXCAVATION COMMON IS THE SUM OF THE CUT (C) AND EBS EXCAVATION (E).

³⁾ CUT MATERIAL SHALL NOT BE USED AS FILL MATERIAL. ONLY EXISTING MOENNING PAVEMENT IS USABLE (4" DEPTH ASSUMED)

⁴⁾ EXPANDED EBS BACKFILL. THIS IS TO BE FILLED WITH BREAKER RUN. EBS EXPANSION FACTOR 1.10.

⁵⁾ UNDISTRIBUTED QUANTITY OF BREAKER RUN USED TO FILL EBS.

⁶⁾ EXPANDED FILL = {UNEXPANDED FILL * 120% FILL FACTOR}.

⁷⁾ MASS ORDINATE = AVAILABLE MATERIAL - EXPANDED FILL

^{**} FILL EXPANSION FACTOR = 1.20

^{***}ADDITIONAL QUANTITIY LISTED ELSEWHERE

CATEGORY	STATION - STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON
0010	100+08M - 105+10M 18+48 - 45+50 UNDISTRIBUTED	LT/RT LT/RT	80 40 6	1,750 1,550 165
		TOTALS	126	3.465

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				*	
				311.0110	
CATEGORY	STATION	- STATION	LOCATION	TON	
0010	34+65	- 45+59	LT/RT	2,350	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONCRETE PAVEMENT 7-INCH

			415.0070
CATEGORY	STATION - STATION	LOCATION	SY
0010	45+49 - 45+59	LT/RT	107

CONCRETE DRIVEWAY 6-INCH

			416.0160
CATEGORY	STATION - STATION	LOCATION	SY
0010	45+33 - 45+47	LT/RT	39

DRILLED

			416.0610	416.0620
			TIE BARS	DOWEL BARS
CATEGORY	STATION	LOCATION	EACH	EACH
0010	45+47 - 45+59	LT/RT	39	18

SHEET Ε COUNTY: SHEBOYGAN PROJECT NO: 4996-22-71 HWY: NON-HIGHWAY MISCELLANEOUS QUANTITIES 30

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		ASPH	HALTIC ITEMS			
			455.0605	460.5223 HMA	460.5224 HMA	465.01
			TACK	PAVEMENT	PAVEMENT	ASPHAL ⁻
			COAT	3 LT 58-28 S	4 LT 58-28 S	SURFAC
CATEGORY	STATION - STATION	LOCATION	GAL	TON	TON	TON
0010	100+08M - 105+10M	LT/RT	180	220	175	
	103+42M - 103+82M	LT	9	11	9	
	18+58 - 45+41	LT/RT				525
	44+74 - 45+47	RT	24	30	23	
		TOTALS	213	261	207	525

CURB AND GUTTER

			601.0452	601.0411	650.5500
			CONCRETE	CONCRETE	CONSTRUCTION
			CURB & GUTTER	CURB & GUTTER	STAKING CURB,
			INTEGRAL 30-INCH	30-INCH	GUTTER AND
			TYPE D	TYPE D	CURB & GUTTER
CATEGORY	STATION - STATION	LOCATION	LF	LF	LF
0010	100+38M - 104+90M	LT		580	580
	100+16M - 104+90M	RT		455	455
	45+32 - 45+49	LT/RT	100		100
		TOTALS	100	1,035	1,135

CONCRETE SIDEWALK

CATEGORY	STATION - STATION	LOCATION	602.0410 5-INCH SF	602.0415 6-INCH SF
0010	100+18M - 100+30M	RT	110	
	100+37M - 104+58M	LT	2,450	170
	45+29 - 45+47	LT	1,000	
	45+41 - 45+47	LT/RT		70
		TOTALS	3,560	240

ASPHALTIC FLUME	2
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CATEGORY	STATION	LOCATION	465.0315 SY
0010	104+90 M 104+90 M	LT RT	7 7
	-	TOTAL	14

CONSTRUCTION STAKING CURB RAMPS

CATEGORY	STATION	LOCATION	650.9000 EACH
0010	100+23M	RT	1
	100+42M	LT	1
	104+50M	LT	1
	45+41	LT/RT	1
		TOTAL	4

CONSTRUCTION STAKING CONCRETE SIDEWALK

CATEGORY	STATION - STATION	LOCATION	SPV.0090.01 LF
0010	100+18M - 100+25M	R⊤	10
	100+39M - 104+58M 45+29 - 45+47	LT LT	496 203
	43729 - 43747		203
		TOTAL	709

CURB RAMP DETECTABLE WARNING FIELD YELLOW

CATEGORY	STATION	LOCATION	602.0505 YELLOW SF	602.0605 RADIAL YELLOW SF
0010	100+23M	RT		17
	100+42M	LT		17
	104+50M	LT	28	
	45+45	LT/RT	20	
		TOTALS	48	34

PROJECT NO: 4996-22-71 HWY: NON-HIGHWAY COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES

FILE NAME : S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030204

PLOT DATE : 1/31/2018 10:17 AM

PLOT BY: YOSS, EMILY

PLOT NAME :

WISDOT/CADDS SHEET 42

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				CULVERT PIPE ITEMS	•		
			520.8000	608.0418 STORM SEWER	522.1018 APRON ENDWALLS	650.6000 CONSTRUCTION	611.9800.S
			CONCRETE	PIPE REINFORCED	FOR CULVERT PIPE	STAKING	
			COLLARS	CONCRETE CLASS IV	REINFORCED CONCRETE	PIPE	PIPE
			FOR PIPE	18-INCH	18-INCH	CULVERTS	GRATES
CATEGORY	STATION	LOCATION	EACH	LF	<u>EACH</u>	EACH	EACH
0010	36+60	LT/RT		41	1	1	1
	36+60	RT	1	8			

MANHOLES AND INLET COVERS					
			611.2004	611.0609	650.4000
				INLET	CONSTRUCTION
			MANHOLES	COVERS	STAKING STORM
			4-FT DIAMETER	TYPE B-A	SEWER
CATEGORY	STATION	OFFSET	EACH	EACH	EACH
0010	36+60	10.8' RT	1	1	1

PIPE UNDERDRAIN WRAPPED 4-INCH					
			612.0404		
			612.0404		
CATEGORY	STATION - STATION	LOCATION	LF		
0010	25+96 - 26+71	LT	75		
	30+78 - 31+53	LT	75		
	36+93 - 37+68	LT	75		
		TOTAL	225		

		FENCE		
			616.0206	616.0329
			FENCE CHAIN	GATES CHAIN
			LINK 6-FT	LINK (WIDTH) 4-FT
CATEGORY	STATION - STATION	LOCATION	LF	EACH
0010	35+74 - 35+90	RT	66	2

TEMPOARY PEDESTRIAN ACCOMODATIONS					
		64444406	64446046	CAA 1616 6	
		644.1410.S	644.1601.S	644.1616.S	
		TEMPORARY	TEMPORARY	TEMPORARY	
		PEDESTRAN	CURB	PEDESTRIAN	
		SURFACE ASPHALT	RAMP	SAFETY FENCE	
CATEGORY	LOCATION	SF	EACH	LF	
0010	S. BUSINESS DRIVE	40	2	290	

	MOBILIZATION	
		619.1000
CATEGORY	PROJECT	EACH
0010	4996-22-71	1

E COUNTY: SHEBOYGAN SHEET 32 HWY: NON-HIGHWAY PROJECT NO: 4996-22-71 MISCELLANEOUS QUANTITIES FILE NAME : PLOT DATE : 3/16/2018 9:20 AM PLOT NAME :

S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030205

TOTALS

PLOT BY: YOSS, EMILY

3

DUST CONTROL SURFACE TREATMENT

CATEGORY	STATION - STATION	LOCATION	623.0200 SY
0010	100+08M - 105+10M 18+48 - 45+50	LT/RT LT/RT	2,800 4,500
		TOTAL	7 300

WATER

CATEGORY	STATION - STATION	LOCATION	624.0100 MGAL
0010	100+08M - 105+10M 18+48 - 45+50	LT/RT LT/RT	50 115
		TOTAL	165

RIPRAP ITEMS

			606.0200	645.0120
			RIPRAP	GEOTEXTILE
			MEDIUM	TYPE HR
CATEGORY	STATION	LOCATION	CY	SY
0010	105+10 M	22' RT	4	14
	105+10 M	28' LT	4	14
	36+78	38'LT	3	11
	UNDIS	TRIBUTED	3	10
	_			
		TOTALS	13	48

HWY: NON-HIGHWAY

SILT FENCE SUMMARY

			628.1504	SPV.0090.02	628.1520
				SILT FENCE	
			SILT	DOUBLE	SILT FENCE
			FENCE	STAKED	MAINTENANCE
CATEGORY	STATION - STATION	LOCATION	LF	LF	LF
0010	100+08M - 105+10M	LT/RT	460		920
	18+48 - 45+50	LT/RT	2,000	1,600	7,200
	BORROW SITE		246	160	812
	UNDISTRIBUTED		677	440	2,233
	•	TOTALS	3,383	2,200	11,165

MOBILIZATIONS EROSION CONTROL

	628.1905	628.1910	
	MOBILIZATIONS	MOBILIZATIONS	
	EROSION	EMERGENCY	
	CONTROL	EROSION CONTROL	
CATEGORY	EACH	EACH	
0010	2	2	

PROJECT NO: 4996-22-71

FILE NAME : S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030206

PLOT DATE : 1/31/2018 10:17 AM

COUNTY: SHEBOYGAN

MISCELLANEOUS QUANTITIES

PLOT BY: YOSS, EMILY

PLOT NAME :

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SHEET

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	MULCHI	NG AND	EROSION	MAT ITEMS
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			627.0200	628.2004 EROSION MAT	628.2008 EROSION MAT URBAN
			MULCHING	CLASS I TYPE B	CLASS I TYPE B
CATEGORY	STATION - STATION	LOCATION	SY	SY	SY
0010	100+08M - 105+10M	LT/RT	150	270	500
	18+48 - 45+50	LT/RT	1,200	1,550	1,150
	UNDISTRIBUTED		338	455	413
		TOTALS	1,688	2,275	2,063

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CATEGORY	STATION	OFFSET	628.7005 TYPE A EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
0100	36+60	11.0 'RT	1		
	45+48	206.0 'LT			1
	45+50	30.0 'LT		1	
	45+93	28.0 'LT		1	
	45+95	170.0 'LT			1
-	UNDISTRIB	UTED	1	1	1
		TOTALS	2	3	3

TEMPORARY DITCH CHECKS

			628.7504
CATEGORY	STATION	LOCATION	LF
0010	101+37 M	RT	12
	101+89 M	LT	12
	19+90	LT	12
	33+14	LT	12
	37+51	RT	12
	39+51	RT	12
	43+44	LT	12
	UNDISTRIE	BUTED	36
		TOTAL	120

HWY: NON-HIGHWAY

CULVERT PIPE CHECKS

			628.7555
CATEGORY	STATION	LOCATION	EACH
0010	105+24 M	19' LT	1
	UNDIS	TRIBUTED	1
	_	TOTAL	2

FINISHING ITEMS

			625.0100	629.0210	630.0140	630.0130	630.0200
				FERTILIZER	SEEDING MIXTURE	SEEDING MIXTURE	SEEDING
			TOPSOIL	TYPEB	NO. 40	NO. 30	TEMPORARY
CATEGORY	STATION - STATION	LOCATION	SY	CWT	LB	LB	LB
	400 0014 405 4014	. = /p=	0.00	0.5	4.5		0.5
0010	100+08M - 105+10M	LT/RT	930	0.6	15		25
	18+48 - 45+50	LT/RT	3,900	2.5		70	110
	UNDISTRIBUTED		1,200	0.8	4	20	35
		TOTALS	6,030	3.9	19	90	170

COUNTY: SHEBOYGAN

ROCK BAGS

CATEGORY	LOCATION	628.7570 EACH
0010	SILT FENCE DRAINAGE RELIEF LOCATIONS CULVERT OR FLUME OUTFALLS WITH SILT FENCE UNDISTRIBUTED	110 16 40
•	TOTAL	166

PROJECT NO: 4996-22-71

CATEGORY

0010

FILE NAME : S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030207

628.7560

EACH

TRACKING PADS

STATION

100+50 M 45+50 UNDISTRIBUTED

TOTAL

PLOT DATE : 1/31/2018 10:17 AM

MISCELLANEOUS QUANTITIES PLOT BY: YOSS, EMILY

Ε 34

SHEET

'ERMANEN I SIGNING SUMMARY

CATEGORY	SIGN NO.	APPROX. STA. LC		SIGN CODE	SIGN MESSAGE	SIGN SIZE (W x H) IN	SIGNS TYPE II REFLECTIVE H SF	SIGNS TYPE II REFLECTIVE F SF	PO: x 8-FT EACH	STS TUBULAF x 10-FT EACH	R STEEL 2×2- × 12-FT EACH	INCH x 14-FT EACH	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
10	E1-01	100+45M	LT	R1-1	STOP	30 x 30							1	1	
	1-02	100+45M	LT	R1-1	STOP	30 x 30	5.18				1				
	E1-03	100+94M	RT	W1-1R	RIGHTTURN	36 x 36							1	1	
	1-04	101+04M	RT	W1-1R	RIGHTTURN	36 x 36		9.00				2			
	1-05	101+04M	RT	W13-1	ADVISORY SPEED PLATE (YELLOW BACK)	24 x 24		4.00							SIGN MOUNTED ON SAME POST AS E1-02
	E1-06	103+45M	LT	W3-1	STOP AHEAD	36 x 36							1	1	
	1-07	103+18M	LT	W3-1	STOP AHEAD	36 x 36		9.00				1			
	1-08	103+97M	RT	W11-15	TRAIL CROSSING (BIKE AND PED SYMBOL)	30 x 30		6.25				1			
	1-09	103+97M	RT	W16-7L	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)	24 x 12		2.00							SIGN MOUNTED ON SAME POST AS 1-05
	1-10	103+97M	LT	W1-8	CHEVRON	18 x 24		3.00	1						
	1-11	104+24M	LT	W1-8	CHEVRON	18 x 24		3.00	1						
	1-12	104+26M	LT	W1-8	CHEVRON	18 x 24		3.00	1						
	E1-13	104+34M	LT	W1-6	NIGHT ARROW (SINGLE)	48 x 24							1	1	
	1-14	104+33M	LT	W1-6	NIGHT ARROW (SINGLE)	48 x 24		8.00			2				
	E1-15	104+42M	LT	W1-6	NIGHT ARROW (SINGLE)	48 x 24							1	1	
	1-16	104+37M	LT	W1-6	NIGHT ARROW (SINGLE)	48 x 24		8.00			2				
	1-17	18+62	LT	R1-1	STOP	18 x 18	1.86		1						
	1-18	104+57M	LT	R5-3	NO MOTOR VEHICLES	24 x 24	4.00			1					
	1-19	104+60M	LT	W1-8	CHEVRON	18 x 24		3.00		1					
	1-20	104+63M	LT	W1-8	CHEVRON	18 x 24		3.00		1					
	1-21	104+82M	LT	W1-8	CHEVRON	18 x 24		3.00		1					
	1-22	105+43M	LT	W11-15	TRAIL CROSSING (BIKE AND PED SYMBOL)	30 x 30		6.25		1					
	1-23	109+10M	LT	W13-1	ADVISORY SPEED PLATE (YELLOW BACK)	24 x 24		4.00							SIGN MOUNTED ON EXISTING WOOD POST
	1-24	102+36M	LT	R7-1D	NO PARKING ANY TIME - DOUBLE ARROW	18 x 24	3.00				1				
	1-25	102+36M	RΤ	R7-1D	NO PARKING ANY TIME - DOUBLE ARROW	18 x 24	3.00				1				
	1-26	27+63	RT	W7-5	HILL (BICYCLE)	18 x 18		2.25	1						
	2-01	45+23	RΤ	R5-3	NO MOTOR VEHICLES	24 x 24	4.00				1				
	2-02	45+26	LT	R5-3	NO MOTOR VEHICLES	24 x 24	4.00				1				
	2-03	45+36	RT	R7-52R	NO PARKING BETWEEN SIGNS - RIGHT ARROW	18 x 24	3.00				1				
	2-04	45+45	RΤ	R1-1	STOP	30 x 30	5.18				1				
	2-05	45+43	RT	R1-1	STOP	18 x 18	1.86		1						
	2-06	45+43	LT	W11-15	TRAIL CROSSING (BIKE AND PED SYMBOL)	30 x 30		6.25			1				
	2-07	45+43		W16-7L	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)	24 x 12		2.00							SIGN MOUNTED ON SAME POST AS 2-06
	2-08	45+41		R7-52L	NO PARKING BETWEEN SIGNS - LEFT ARROW	18 x 24	3.00				1				

E SHEET 35 HWY: NON-HIGHWAY COUNTY: SHEBOYGAN PROJECT NO: 4996-22-71 MISCELLANEOUS QUANTITIES FILE NAME : S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030208 PLOT DATE : 3/16/2018 9:28 AM PLOT BY: YOSS, EMILY PLOT NAME :

3

TRAFFIC CONTROL FIELD OFFICE TYPE C 642.5201 643.5000 CATEGORY PROJECT EACH CATEGORY PROJECT EACH 0010 4996-22-71 1 4996-22-71 0010 1

TRAFFIC CONTROL

		DURATION		.0300 UMS	BAR	3.0420 RICADES YPE III	643.0500 FLEXIBLE TUBULAR MARKER POSTS	643.0600 FLEXIBLE TUBULAR MARKER BASES	643.0 WARNING TYPE	LIGHTS	WARNIN	.0715 IG LIGHTS PE C		3.0900 IGNS	SIG	.1050 GNS CMS
CATEGORY	LOCATION	(DAYS)	EACH	DAYS	EACH	DAYS	EACH	EACH	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
0010	S. BUSINESS DRIVE AND MOENNING ROAD S 18TH STREET	60 60	61 14	3,660 840	10 0	600 0	51 0	51 0	22 0	1,320 0	14 0	840 0	16 3	960 180	4 0	240 0
_	TOTALS			4,500		600	51	51		1,320		840		1,140		240

					PA	VEMENT MARK	ing items				
			64	6.1020		646.5020	646.5220 M/	646.6120 ARKING	646.7420	646.8320	646.9000
			LINE EPO	DXY 4-INCH		ARROW	SYMBOL	STOP LINE	CROSSWALK EPOXY	PARKING	REMOVAL
				SKIPS 3' SE	G., 9' GAP	EPOXY	EPOXY	EPOXY 18-INCH	TRANSVERSE LINE 6-INCH	STALL EPOXY	LINE 4-INCH
		(WHITE)	(YELLOW)	(WHITE)	(YELLOW)	(WHITE)	(WHITE)	(WHITE)	(WHITE)	(YELLOW)	
CATEGORY	STATION - STATION	LF	LF	LF	LF	EACH	EACH	LF	LF	LF	LF
0010	100+00M - 105+10M 18+59 - 19+34M 44+74 - 46+58	845 	940 59 	18 	 9 	2 	2	22	95 	60 60	560
	TOTALS		1	.,871		2	2	22	95	120	560

	GEOGRID	
		645.0220
		TYPE SR
CATEGORY	STATION - STATION	SY
0010	34+65 - 45+74	1,938

TI	EMPORARY MARKING LINE REMOVABLE TAPE 4-INCH									
		6	49.0150							
		(WHITE)	(YELLOW)							
CATEGORY	LOCATION	LF	LF							
0010	S. BUSINESS DRIVE	890	635							
-	TOTAL		1,525							

PROJECT NO: 4996-22-71	HWY: NON-HIGHWAY	COUNTY: SHEBOYGAN		MISCELLANEOU	S QUANTITIES		SHEET	36	E
FILE NAME : S:\MAD\37003799\3774\002\ACAD\CIVIL3D\SHEETSPLAN\030201_MQ.DWG		PLOT DATE :	2/19/2018 2:52 PM	PLOT BY :	YOSS, EMILY	PLOT NAME :		WIEDOT/CADDS SH	EET 42

CONSTRUCTION STAKING

		650.4500	650.5000	650.9920	
		SUBGRADE	BASE	SLOPE STAKES	
CATEGORY	STATION - STATION	LF	LF	LF	
0010	100+08M - 105+17M	500	500	510	
	18+59 - 45+41	2,970	2,970	2,890	
	TOTALS	3,470	3,470	3,400	

SAWING CONCRETE

			690.0250
CATEGORY	STATION - STATION	LOCATION	LF
0010	100+14M - 100+48M	LT/RT	15
	45+47 - 45+59	LT/RT	125
		TOTAL	140

SAWING ASPHALT

	CATEGORY	STATION	LOCATION	690.0150 LF
-				
	0010	100+08M - 100+35M	LT/RT	96
		105+10M - 105+10M	LT/RT	19
			TOTAL	115

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

	650.9910
PROJECT	LS
4996-22-71	1

BOLLARD ITEMS

CATEGORY	STATION	LOCATION	SPV.0060.01 BOLLARD EACH	SPV.0060.02 FOLDABLE BOLLARD EACH
0010	18+70	8'LT	1	
	18+70 18+70	0' RT 8'RT	 1	1
		TOTALS	2	1

BENCH

			SPV.0060.03
CATEGORY	STATION	LOCATION	EACH
0010	37+32	LT	1

PROJECT NO: 4996-22-71 HWY: NON-HIGHWAY COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET 37 **E**

FILE NAME : S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 0302010

PLOT DATE : 1/31/2018 10:17 AM

PLOT BY: YOSS, EMILY

PLOT NAME :

WISDOT/CADDS SHEET 42



CONVENTIONAL SYMBOLS

SECTION SECTION LINE CORNER QUARTER LINE SYMBOL NON-MONUMENTED O R/W POINT SIXTEENTH LINE SECTION NEW REFERENCE LINE CORNER FOUND IRON PIN IF (3/4" REBAR UNLESS NOTED) • MONUMENT NEW R/W LINE GEODETIC SURVEY MONUMENT EXISTING R/W OR HE LINE SIXTEENTH CORNER MONUMENT PROPERTY LINE OFF-PREMISE (1-25) SIGN SIGN LOT, TIE & OTHER MINOR LINES SLOPE INTERCEPT COMPENSABLE NON-COMPENSABLE ELECTRIC POLE CORPORATE LIMITS 11/1///// TELEPHONE POLE PEDESTAL (LABEL TYPE) (TV. TEL. ELEC. ETC.) NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER) ACCESS RESTRICTED BY ACQUISITION THILLIA TEMPORARY LIMITED NO ACCESS (BY STATUTORY AUTHORITY) EASEMENT AREA ACCESS RESTRICTED (BY PREVIOUS FASEMENT AREA *** (PERMANENT LIMITED OR PROJECT OR CONTROL) RESTRICTED DEVELOPMENT) NO ACCESS (NEW HIGHWAY) TRANSMISSION STRUCTURES - - -BUILDING TO BE REMOVED PARALLEL OFFSETS TLE100 R/W BOUNDARY PONT (PRW100

CONVENTIONAL ADDDEVIATIONS

		ABBREVIATIONS	
ACCESS RIGHTS ACRES AHEAD ALUMINUM AND OTHERS BACK BLOCK CENTERLINE	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT RIGHT OF WAY SECTION	R/W
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CIH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET STATE TRUNK HIGHWAY	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EASEMENT EXISTING GAS VALVE GRID NORTH HIGHWAY EASEMENT	EX	TEMPORARY LIMITED	TLE
GAS VALVE	GV	EASEMENT	
GRID NORTH	GN	TRANSPORTATION PROJECT	TPP
HIGHWAY EASEMENT	HE	PLAT	
IDENTIFICATION	10	UNITED STATES HIGHWAY	USH
LAND CONTRACT	LC	VOLUME	V
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS	CURVE DATA	
NUMBER	NO	LONG CHORD LCH	
OUTLOT		LONG CHORD BEARING LCB	_
	P	RADIUS R	
POINT OF TANGENCY	PT	DEGREE OF CURVE D	_
PERMANENT LIMITED	PLE	CENTRAL ANGLE △/DELT	

LENGTH OF CURVE

DIRECTION AHEAD

TANGENT

CONVENTIONAL **UTILITY SYMBOLS** WATER

GAS TELEPHONE

OVERHEAD TRANSMISSION LINES ELECTRIC

FIBER OPTIC

CABLE TELEVISION

SANITARY SEWER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION TRANSPORTATION PROJECT PLAT TITLE SHEET 4996-22-71

UTILITY CORRIDOR MULTI-USE PATH

LAKESHORE DR - TAYLOR

LOCAL PLAT SHEBOYGAN COUNTY

R-23-E 28 Sheboygan **PROJECT** 35 LOCATION 32 33 T-15-N T-14-N 3 5 9 20 22

LAYOUT

0.5 M

THE NOTES CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES. SHEBOYGAN COUNTY, NAD83(2011), IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

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

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

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

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES. AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES

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

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE CITY OF SHEBOYGAN AND THE SHEBOYGAN COUNTY

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION. AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

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

EXISTING R/W FOR COUNTY RD CK BASED ON PREVIOUS PROJECT: 4996-01-21

EXISTING R/W FOR MOENING ROAD BASED ON PREVIOUS PROJECT: 4996-01-21, TOWN OF WILSON ROAD RECORDS V.1,

EXISTING R/W FOR 18TH STREET BASED ON: CAMELOT ESTATES, PLAINWOOD, CREEKSIDE AND EASEMENT DOCUMENT NO.

EXISTING R/W FOR FOX HILL ROAD BASED ON: CAMELOT ESTATES

EXISTING R/W FOR KNOLL CREST DRIVE BASED ON: CAMELOT ESTATES

EXISTING R/W FOR 12TH STREET BASED ON: CAMELOT ESTATES, CSM RECORDED IN VOL. 1, P. 57, CSM RECORDED IN VOL. 1 P. 59, CSM RECORDED IN VOL. 8, P. 364 AND THE EAST LINE OF SECTION 3

EXISTING R/W FOR CAMELOT BOULEVARD BASED ON: CAMELOT ESTATES.

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 4996-22-71 -4.01 SHEET 2 OF 2 38

AMENDMENT NO

S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\RW\040101_RT.DWG FILE NAME:

EASEMENT

POINT OF BEGINNING

POINT OF CURVATURE

POINT OF COMPOUND CURVE PCC

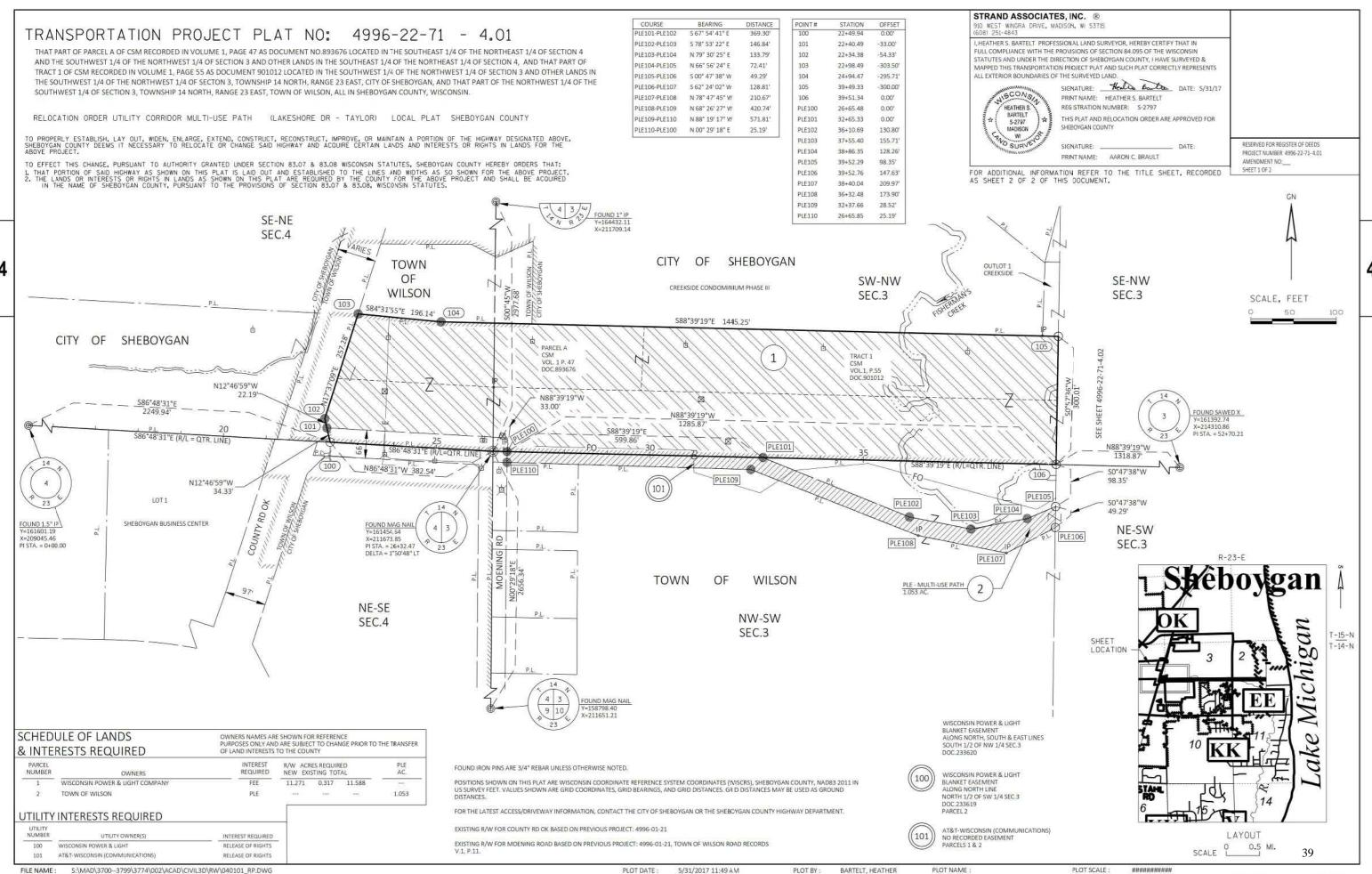
LAYOUT NAME: 040101_rt

9/16/2015 3:04 PM

PLOT BY:

BARTELT, HEATHER PLOT NAME :

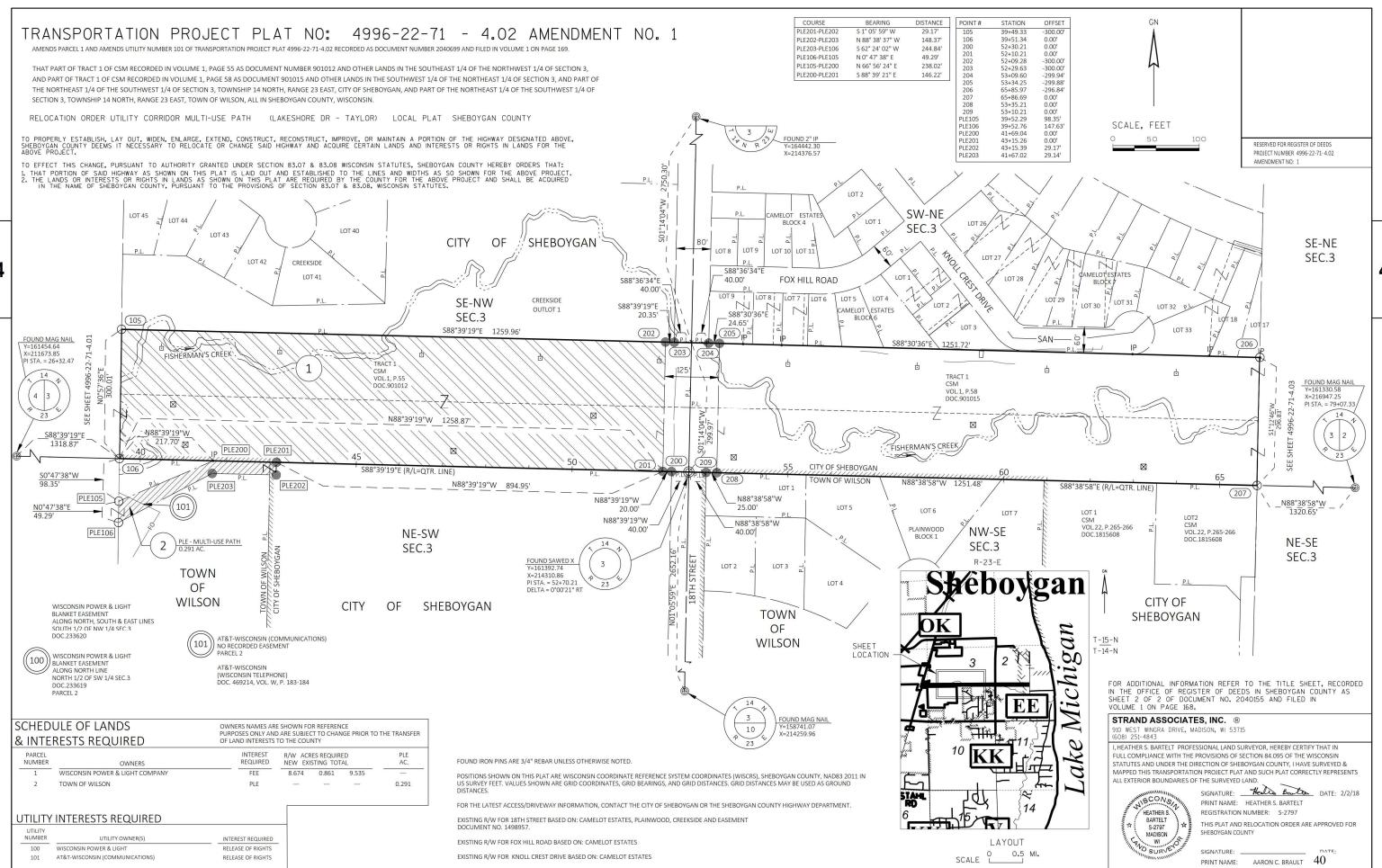
APPRAISAL PLAT DATE: 5/31/17



APPRAISAL PLAT DATE: 5/31/17

BARTELT, HEATHER

4996-22-71-4.01



FILE NAME : S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\RW\040101_RP.DWG APPRAISAL PLAT DATE: 2/2/18

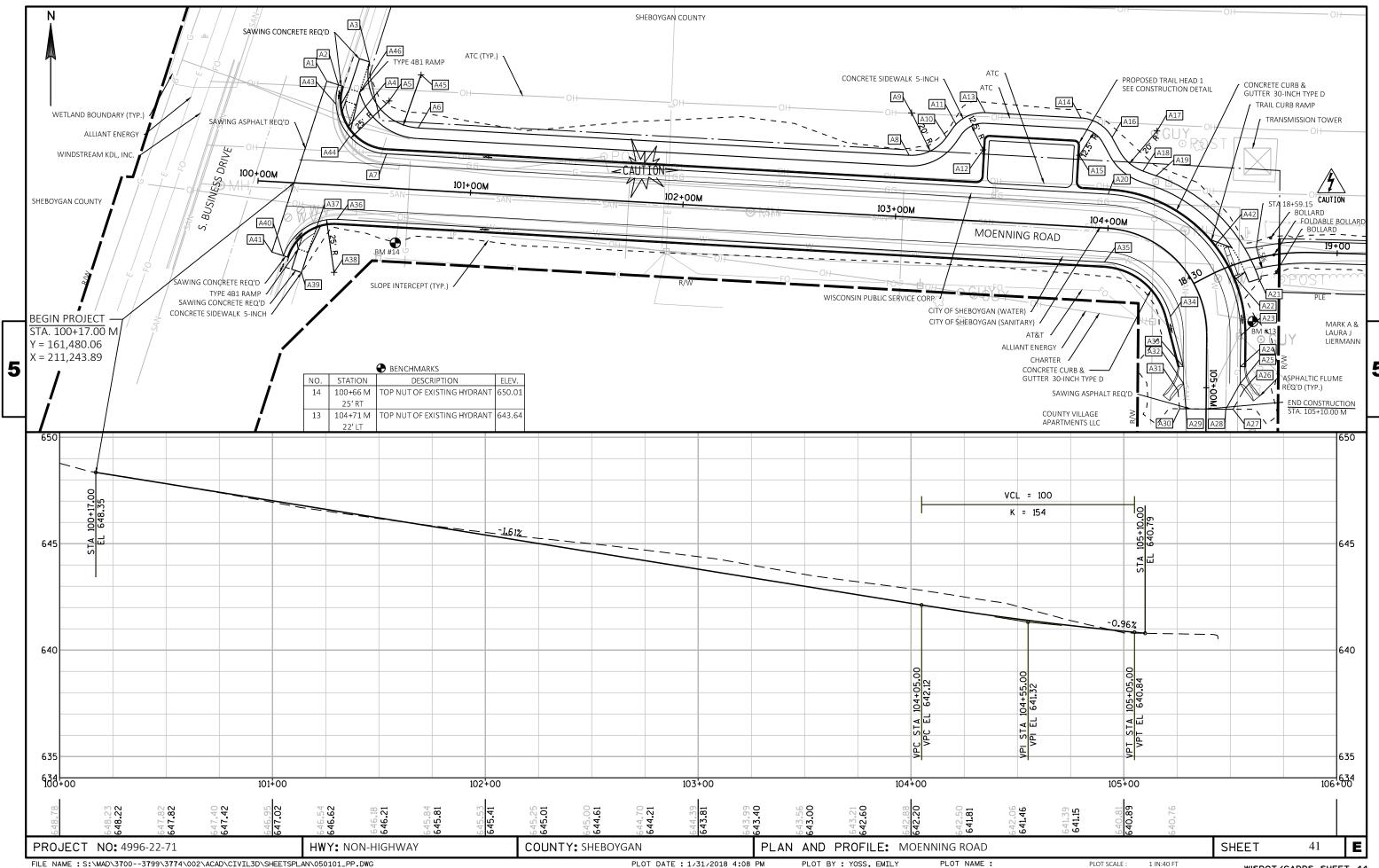
PLOT DATE:

2/2/2018 9:12 AM

BARTELT, HEATHER

PLOT NAME

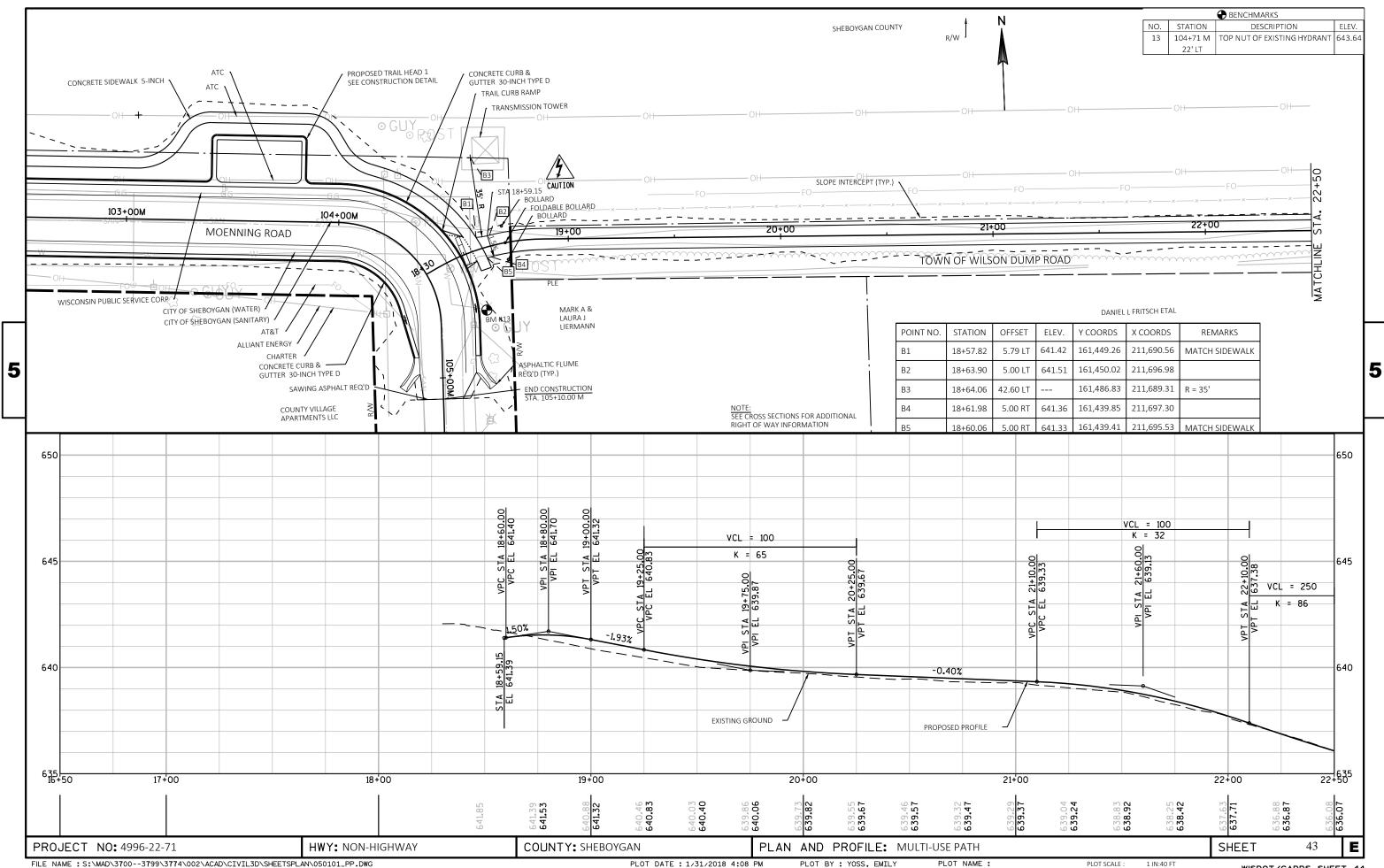
PLOT SCALE

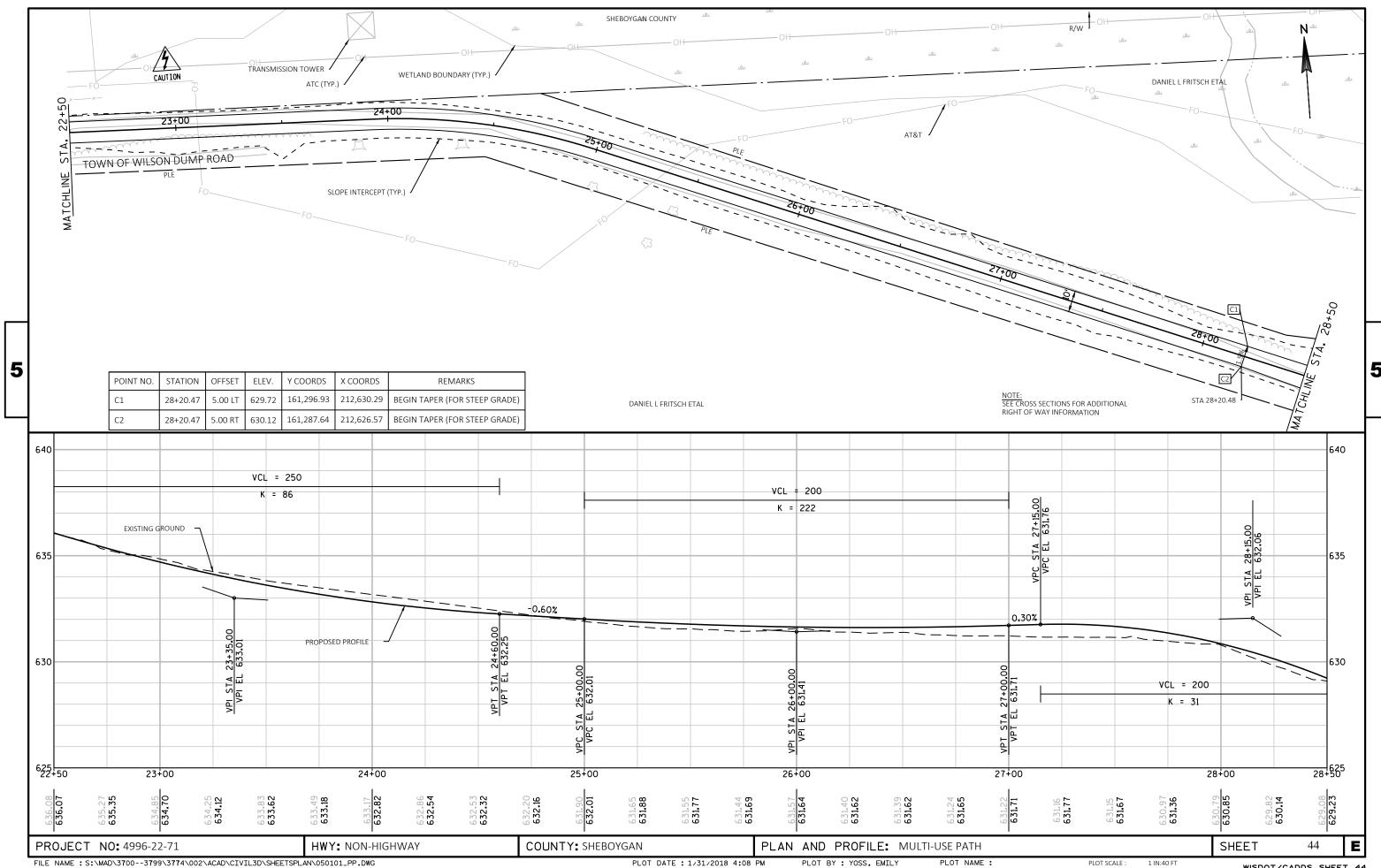


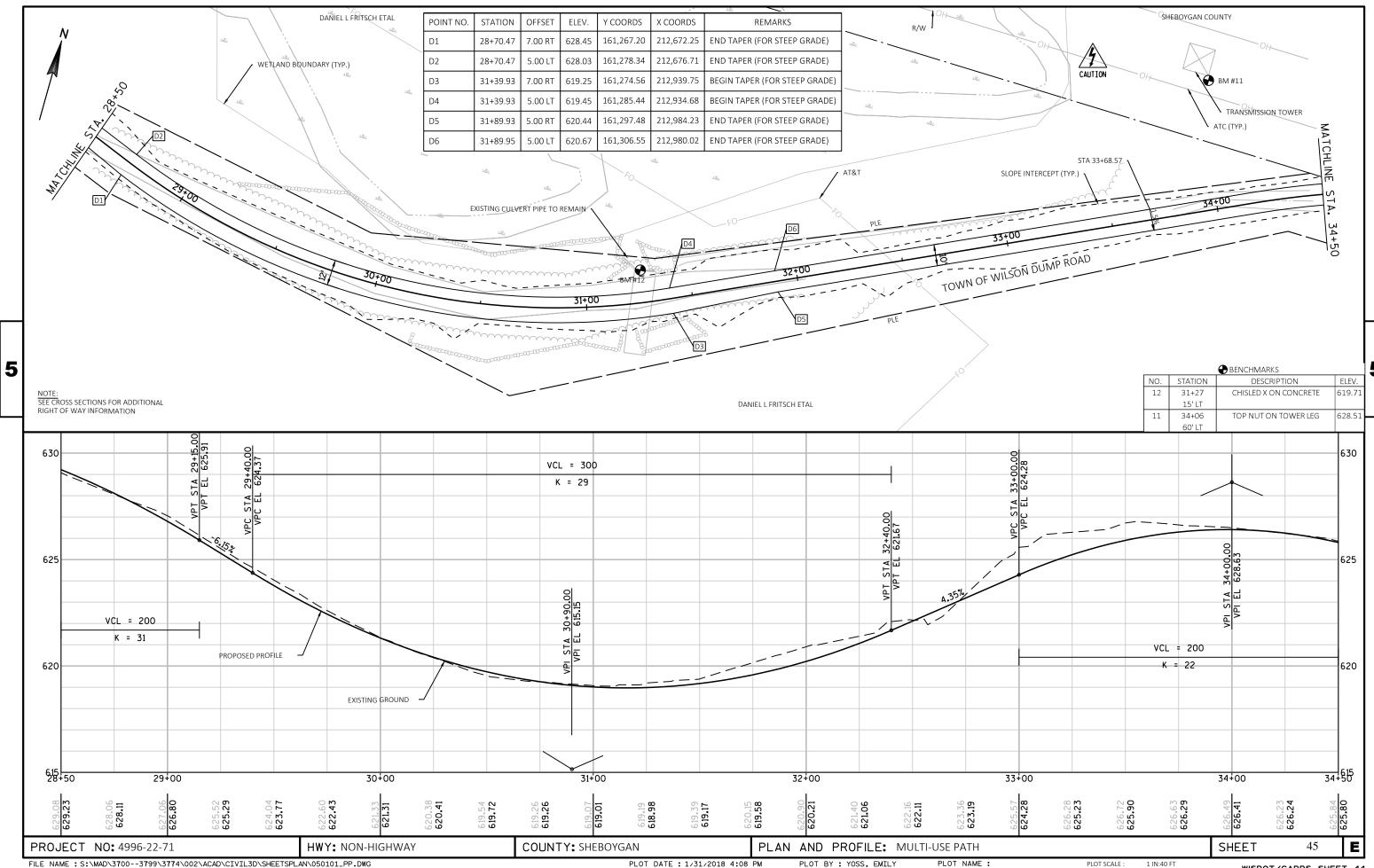
POINT NO.	STATION		OFFSET	ELEV.	Y COORDS	X COORDS	REMARKS
A43	100+34.64	М	37.96 LT	648.33	161,516.98	211,263.62	
A44	100+41.77	М	23.33 LT	648.08	161,501.98	211,269.92	
A45	100+73.73	М	54.00 LT		161,530.82	211,303.54	R = 25'
A46	100+45.38	М	44.22 LT	648.62	161,522.63	211,274.69	

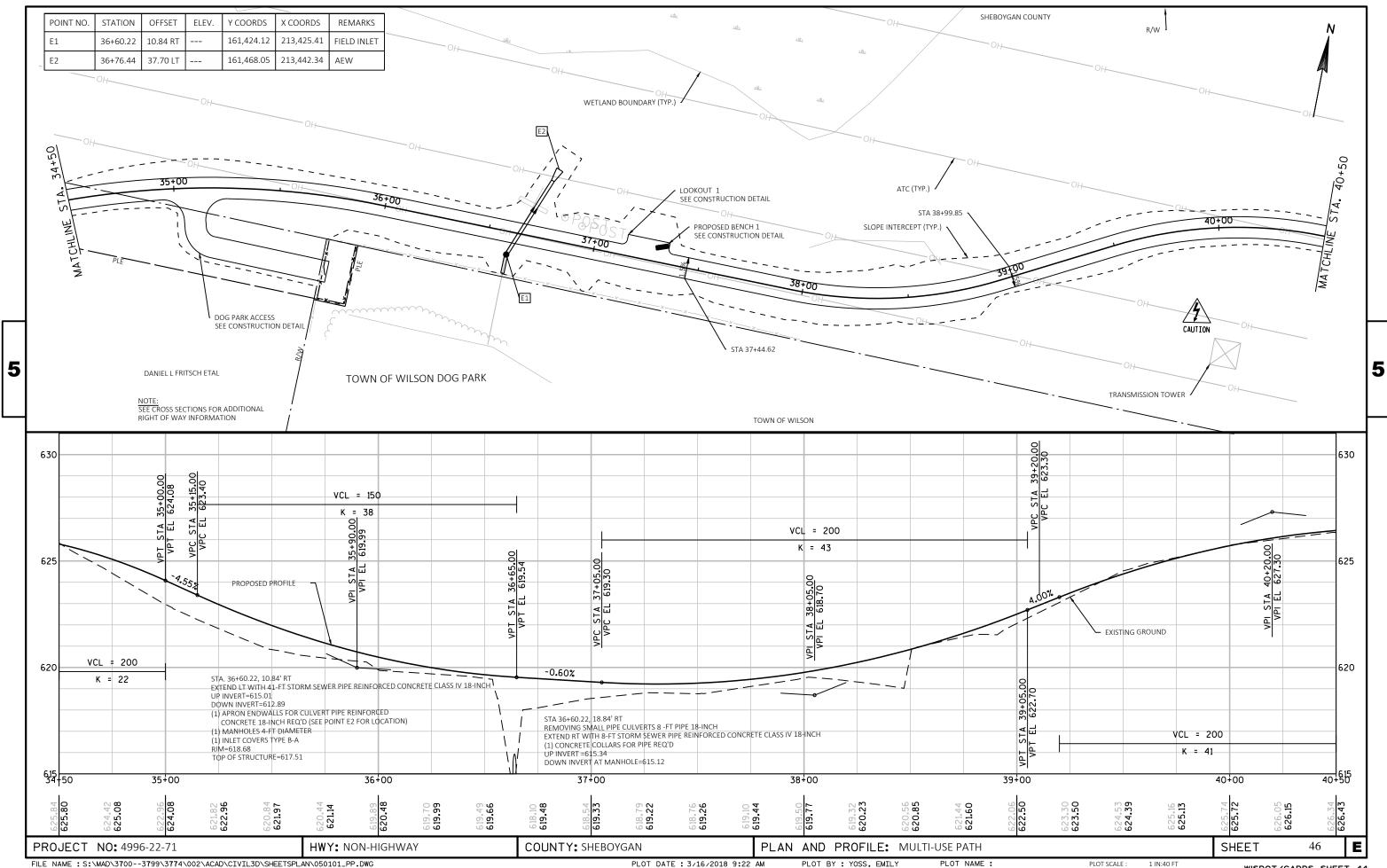
POINT NO.	STATION		OFFSET	ELEV.	Y COORDS	X COORDS	REMARKS
A1	100+29.69	М	48.56 LT		161,527.84	211,259.27	MATCH EXIST. PAVEMENT
A2	100+35.22	М	47.12 LT		161,526.09	211,264.70	MATCH EXIST. 30-INCH C&G
A3	100+49.07	М	58.76 LT		161,536.94	211,279.18	MATCH EXIST. SIDEWALK
A4	100+41.14	М	27.93 LT	648.06	161,506.61	211,269.54	BOC; CURB RAMP OPENING
A5	100+59.43	М	40.92 LT		161,518.56	211,288.53	R = 25'
A6	100+73.73	М	29.00 LT	647.83	161,505.86	211,302.15	BOS
A7	100+59.58	М	16.00 LT	647.35	161,493.67	211,287.30	
A8	103+04.84	М	29.00 LT	644.15	161,493.00	211,532.90	BOS
A9	103+04.84	М	48.99 LT		161,512.95	211,534.01	R = 20'
A10	103+21.80	М	38.41 LT	644.15	161,501.45	211,550.36	BOS
A11	103+26.01	М	44.81 LT	644.31	161,507.61	211,554.92	BOS
A12	103+39.37	М	33.50 LT		161,495.57	211,567.62	R = 12.5'
A13	103+39.37	М	51.00 LT	643.89	161,513.04	211,568.60	BOS
A14	103+84.51	М	51.00 LT	643.22	161,510.53	211,613.67	BOS
A15	103+84.65	М	33.45 LT		161,493.00	211,612.83	R = 12.5'
A16	103+99.34	М	42.73 LT	643.03	161,501.43	211,628.17	BOS
A17	104+09.97	М	49.23 LT		161,504.45	211,649.33	R = 20'
A18	104+09.13	М	29.28 LT	642.45	161,485.58	211,642.68	BOS
A19	104+13.33	М	29.00 LT	642.39	161,483.37	211,648.95	BOS
A20	103+99.15	М	16.00 LT	641.89	161,474.77	211,626.34	
A21	104+58.13	М	29.00 LT	641.71	161,434.88	211,697.27	BOS
A22	104+54.40	М	18.50 LT	641.02	161,436.19	211,685.49	BOC; TRAIL CURB RAMP OPENING
A23	104+75.34	М	16.00 LT	640.83	161,408.30	211,688.67	
A24	104+90.00	М	15.87 LT	640.67	161,393.64	211,688.41	ASPHALTIC FLUME
A25	104+98.00	М	15.86 LT	640.59	161,385.65	211,688.33	
A26	105+00.57	М	17.87 LT	640.43	161,383.06	211,690.32	
A27	105+10.00	М	12.68 LT		161,373.67	211,685.05	MATCH EXIST. SHOULDER
A28	105+10.00	М	9.25 LT		161,373.70	211,681.63	MATCH EXIST. PAVEMENT
A29	105+10.00	М	9.44 RT		161,373.86	211,662.93	MATCH EXIST. PAVEMENT
A30	105+10.00	М	12.44 RT		161,373.88	211,659.93	MATCH EXIST. SHOULDER
A31	105+01.48	М	13.30 RT	640.44	161,382.41	211,659.14	
A32	104+98.20	М	10.62 RT	640.68	161,385.67	211,661.86	
A33	104+90.20	М	10.86 RT	640.77	161,393.67	211,661.68	ASPHALTIC FLUME
A34	104+62.44	М	16.00 RT	640.98	161,417.26	211,655.62	
A35	103+99.15	М	16.00 RT	641.89	161,442.82	211,624.56	
A36	100+38.07	М	16.00 RT	647.69	161,462.91	211,264.04	
A37	100+28.66	М	20.56 RT	647.80	161,458.88	211,254.39	BOC; CURB RAMP OPENING
A38	100+38.07	М	40.98 RT		161,437.98	211,262.65	R = 25'
A39	100+22.80	М	41.90 RT		161,437.91	211,247.35	MATCH EXIST. SIDEWALK
A40	100+13.94	М	34.48 RT		161,445.80	211,238.91	MATCH EXIST. 30-INCH C&G
A41	100+08.35	М	33.02 RT		161,447.57	211,233.42	MATCH EXIST. PAVEMENT
A42	104+41.90	М	18.50 LT	641.17	161,450.88	211,676.77	BOC; TRAIL CURB RAMP OPENING
22-71	l .		<u> </u>	1111/1//	L NON-HIGH\	Λ/Λ\/	COUNTY: S

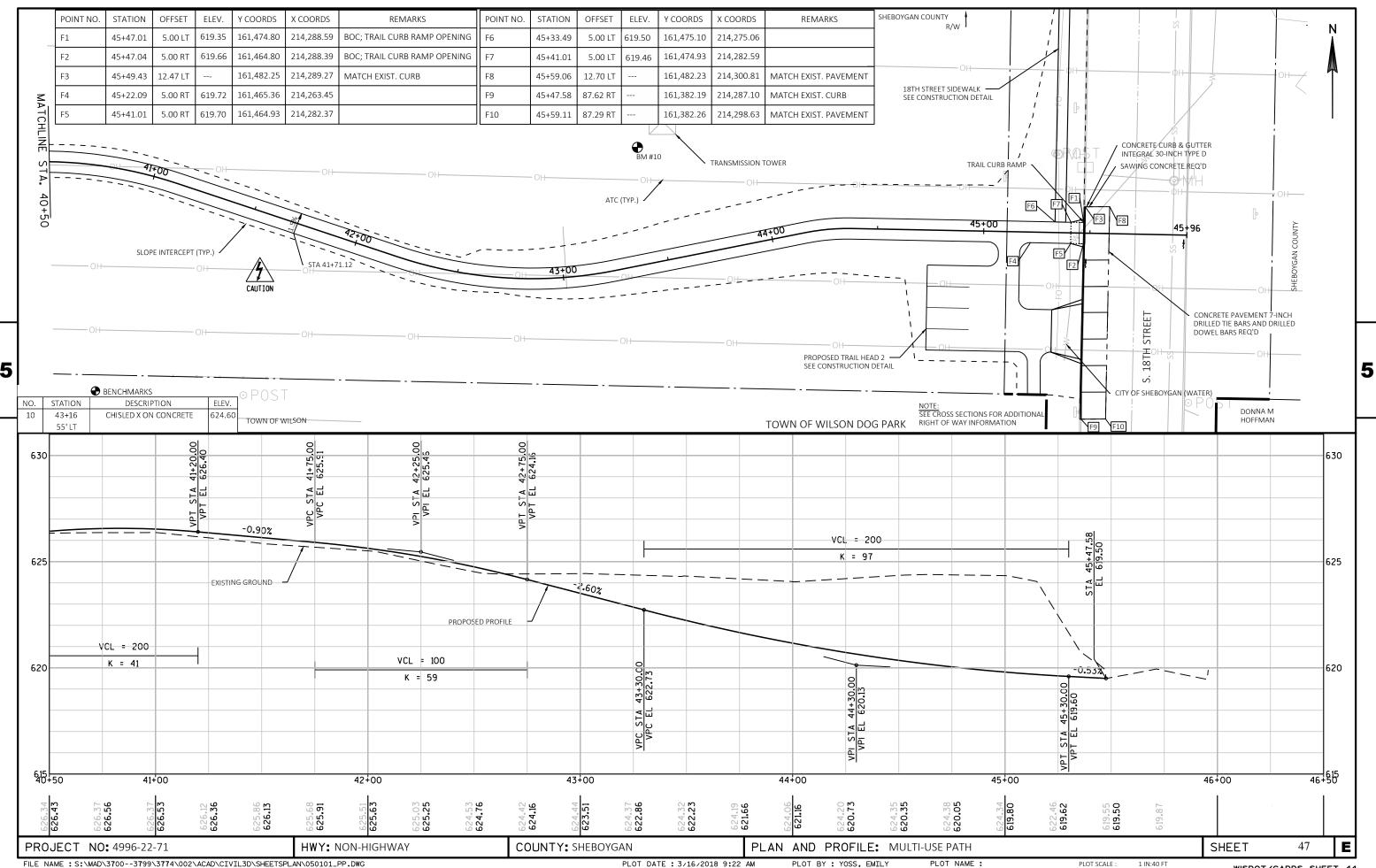
PROJECT NO: 4996-22-71 HWY: NON-HIGHWAY COUNTY: SHEBOYGAN PLAN AND PROFILE: MOENNING ROAD SHEET 42 **E**





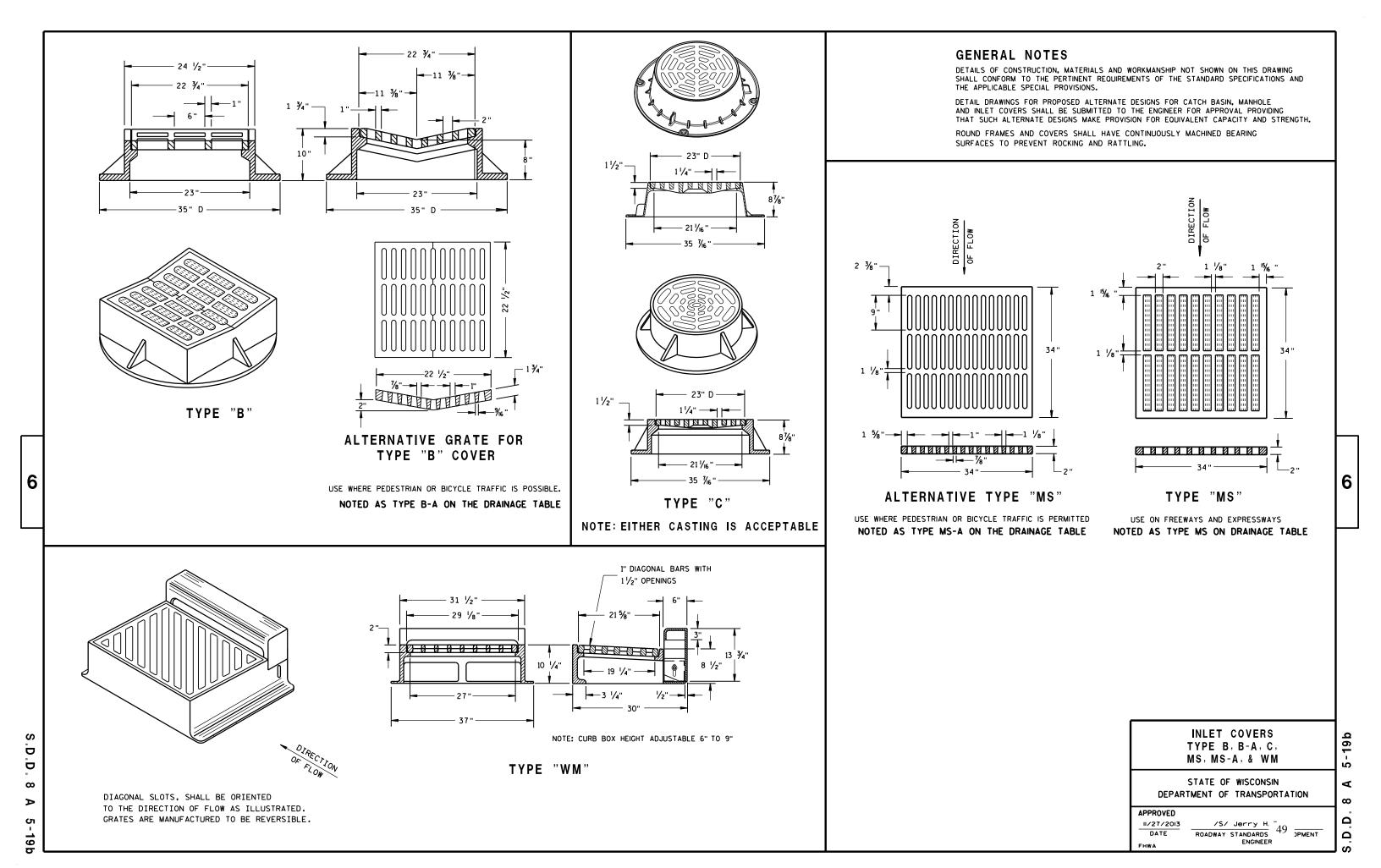






Standard Detail Drawing List

08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C05-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14E	PAVEMENT MARKING FOR BIKE LANES
15C08-18A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C29-05A	BICYCLE LANE MARKING
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-03B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-03C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



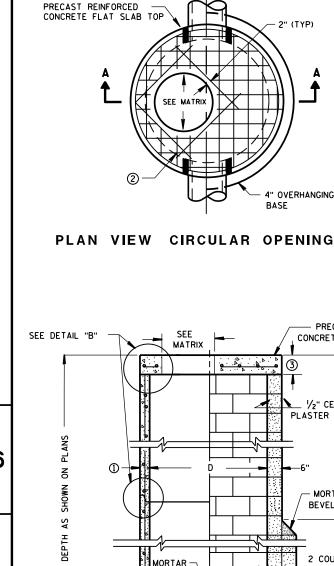


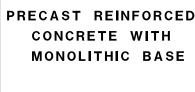




 ∞

 \Box





CONCRETE

(MIN. SLOPE 1 IN./FT.

SEE DETAIL "A"

2-

CONTRACTOR TO PROVIDE DRAWING(S)

STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES



4" OVERHANGING

PRECAST REINFORCED

CONCRETE FLAT SLAB TOP

__ 1/2" CEMENT

PLASTER COAT

- MORTAR

BEVEL 45°

2 COURSES

3

SPLIT PIPE OR FORM CONCRETE TO FIT

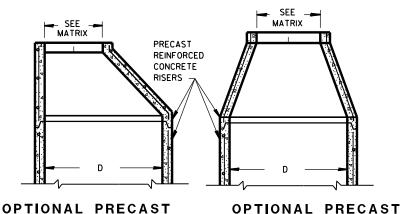
6" BLOCK

BASE

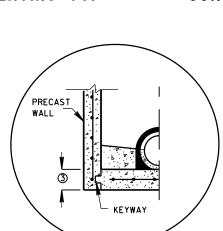
SEE

MORTAR

MATRIX

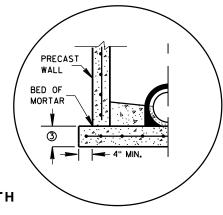


REINFORCED CONCRETE REINFORCED CONCRETE **ECCENTRIC TOP** CONCENTRIC TOP



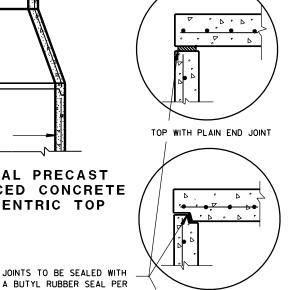
(TYP)

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

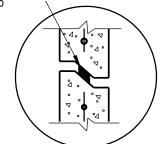


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

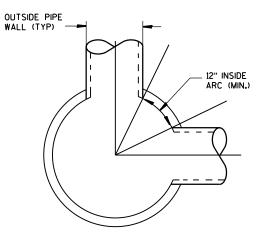


SEALANT MANUFACTURERS TOP WITH TONGUE AND GROOVE JOINT RECOMMENDATIONS CONFORMING TO ASTM C990



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B'



DETAIL "C"

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

GENERAL NOTES

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

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

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

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

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

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES, FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

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

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

- MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT. 6 INCHES FOR 5-FT, 7 INCHES O MINIMUM WALL IHICKNESS SHALL DE 4 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.
- (2) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.
- (3) PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	С	ALL J'S	K	L	М
OPENING SIZE (FT)					
2 DIA.	х	х		Х	
3 DIA.			Х		Х

PIPE MATRIX

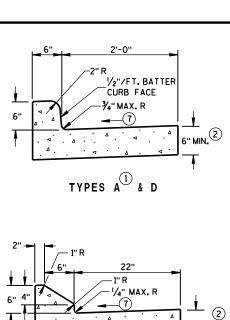
MANHOLE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES				
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)			
3-FT	15	12			
4-FT	24	18			
5-FT	36	24			
6-FT	42	36			
7-FT	48	36			
8-FT	60	42			

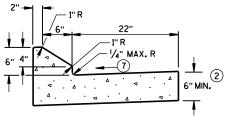
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT 7-FT AND 8-FT DIAMETER

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

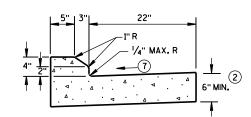
APPROVED			
Sept., 2016	/S/ Rodney	Taylor	
DATE	ROADWAY STANDARDS	50 LOPM	ENT
	UNIT SUPEF	50	

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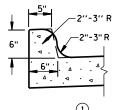




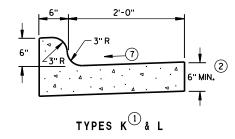
6" SLOPED CURB TYPES G 4 J



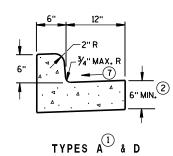
4" SLOPED CURB TYPES G 4 J



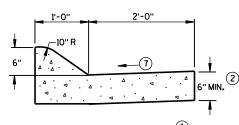
TYPES K (1) & L (OPTIONAL CURB SHAPE)



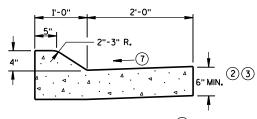
CONCRETE CURB & GUTTER 30"



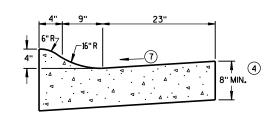
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A & D

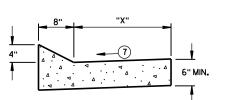


4" SLOPED CURB TYPES A D



4" SLOPED CURB TYPES R T & T

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURBS.

- (1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- 2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED
- (4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- (6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- (7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- (8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH	
LESS THAN 10"	12'	
10" & ABOVE	15'	

6

20a

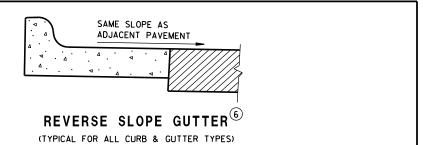
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CONCRETE PANEL WIDTH SAME PAY LIMITS TRAFFIC TRAFFIC LANE -AS CURB & GUTTER LANE PAVEMENT SLOPE PAVEMENT THICKNESS

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



CONCRETE CURB & GUTTER

STATE OF WISCON 51 DEPARTMENT OF TRANSPORTATION

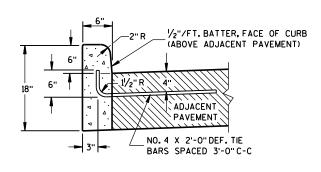
^{*} BIKE LANE IS NOT SHOWN.

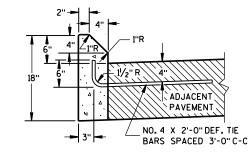
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURBS.

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

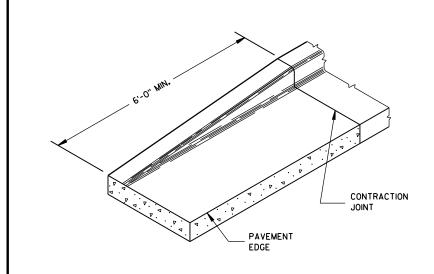




TYPES A D

TYPES G 4 J

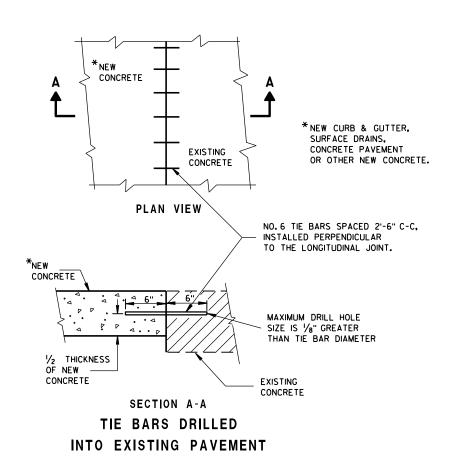
CONCRETE CURB

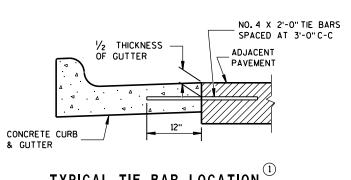


END SECTION CURB & GUTTER

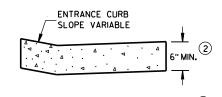
DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)









DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

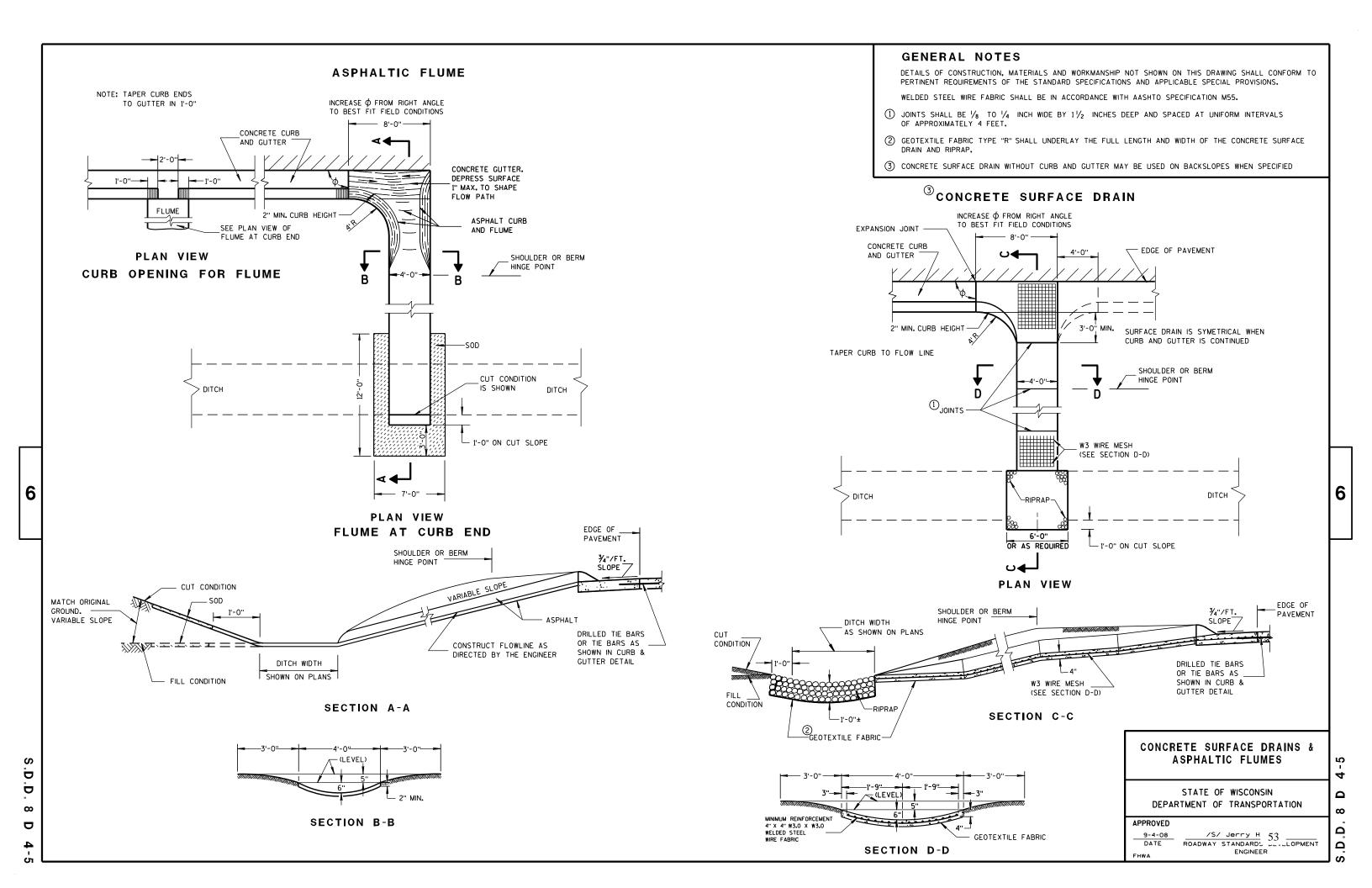
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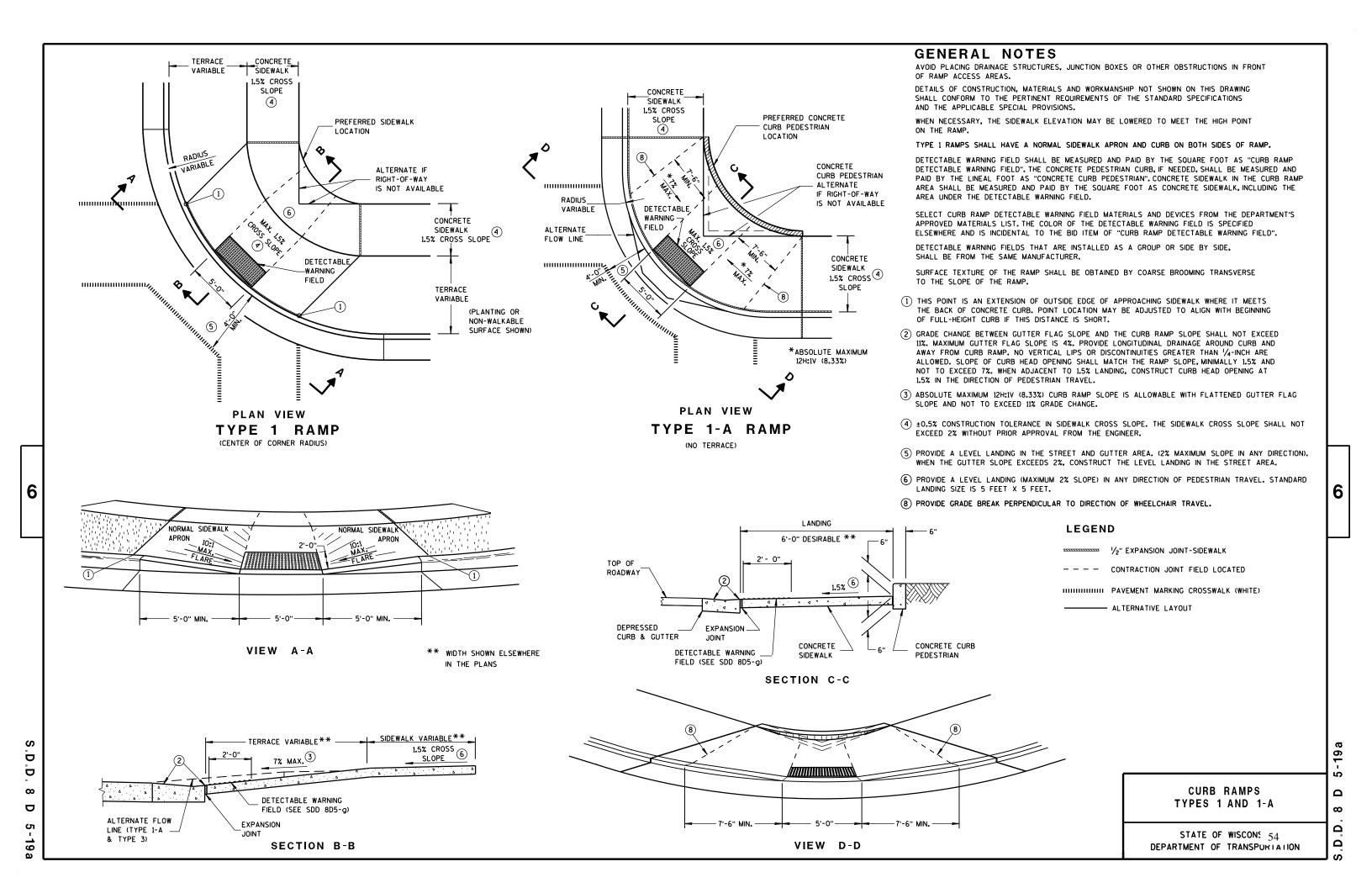
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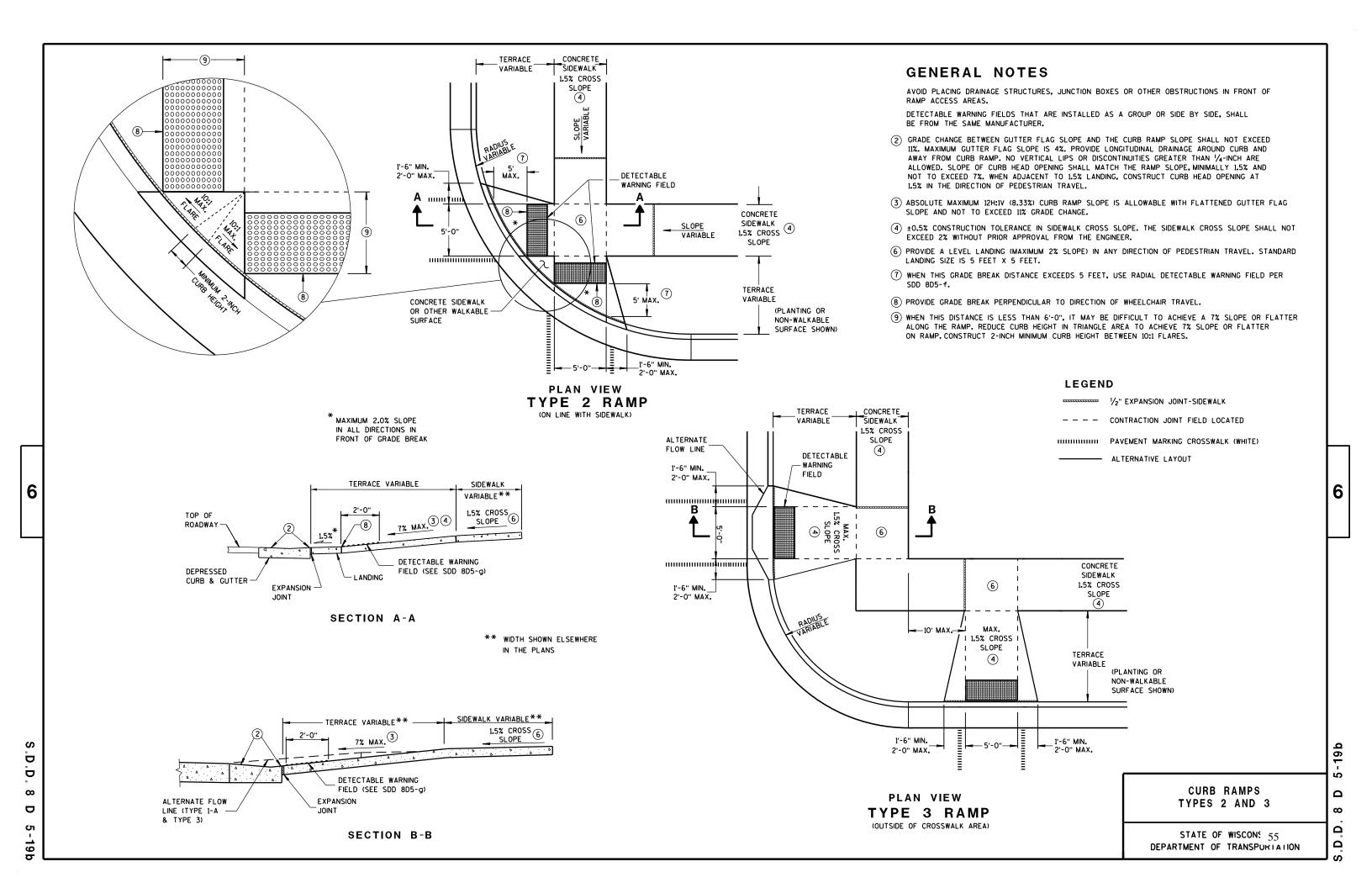
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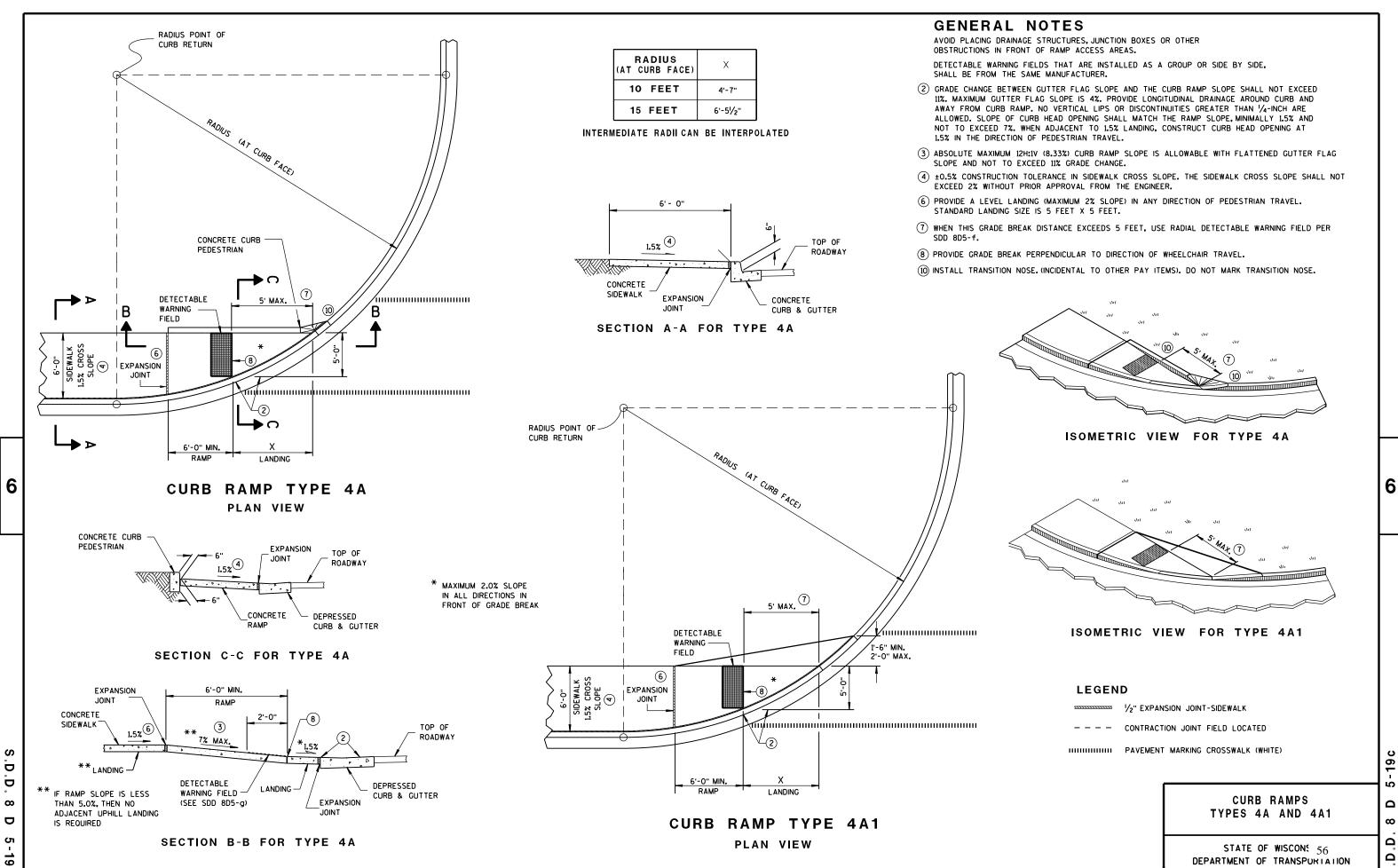
ROADWAY STANDARDS 52 OPMENT UNIT SUPERVISOR June, 2017 DATE

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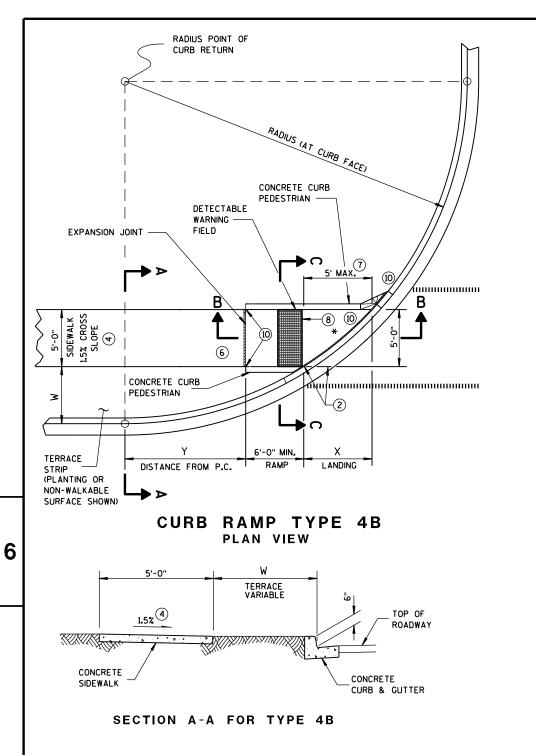


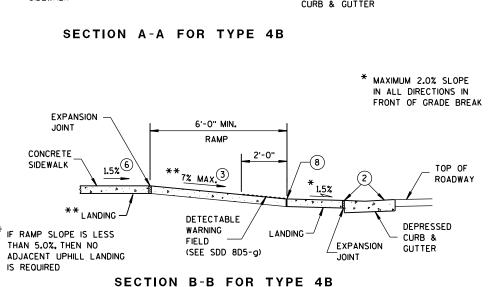






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W = 7' - Ø" W = 9' - 0" W = 10' - 0" W = 3' - 0" W = 4' - 0"W = 5' - 0"W = 6' - 0" W = 8' - 0" RADIUS AT CURB FACE 10 FEET 2'-1" 0'-10" 2'-71/2" 0'-31/4" 3'-01/4" 2'-101/4" 1'-41/2" 2'-1" 15 FEET 4'-6¾" 2'-1¾" 3'-9" 3'-51/4" 3'-1'/4" 4'-6" 2'-6¾" 5'-41/2" 2'-1" 6'-1" 1'-8" 6'-8'/2" 1'-3'/4" 7'-21/2" 0'-10¾" 7'-71/4" 20 FEET 5'-9¾" 3'-61/2" 4'-111/2" 4'-31/4" 6'-51/2' 3'-8¾" 3'-3" 8'-61/2" 2'-10" 9'-41/2" 2'-51/2" 30 FEET 6'-91/4" 7'-11'/4" 6'-01/4" 9'-8" 4'-103/4" 12'-53/4" 4'-51/2" 13'-73/4" 4'-03/4" 14'-81/2" 3'-81/2" 15'-81/4" 40 FEET 6'-1¾" 5'-8" 5'-3" 18'-5¾" 4'-10¾" 19'-8'/4" 15'-81/2" 17'-2" 50 FEET 5'-101/4" 23'-2"

GENERAL NOTES

5'-0" RAMP

VARIES

0 TO 6"

<u>1.5%</u>

SECTION C-C FOR TYPE 4B

CONCRETE CURB

PEDESTRIAN

TERRACE STRIP

VARIES O TO W

CONCRETE

PLAN VIEW

CURB & GUTTER

TOP OF

ROADWAY

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

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STATE OF WISCON: 57

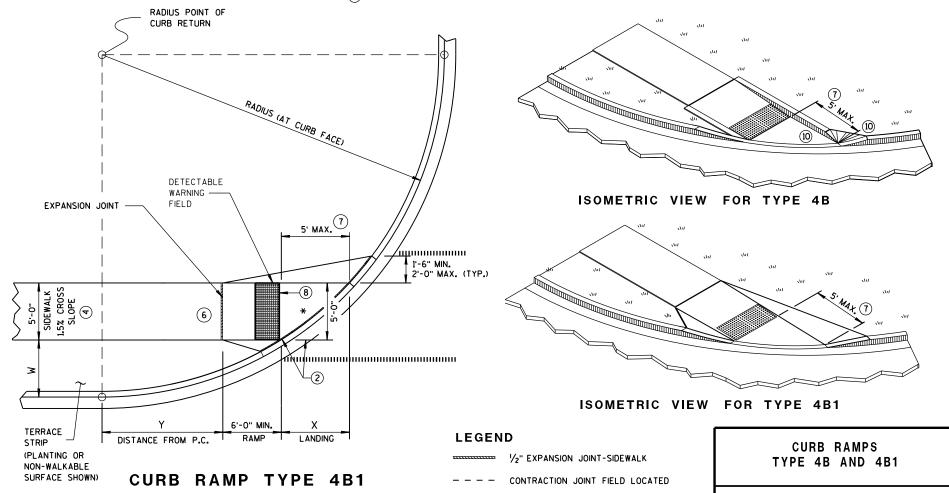
DEPARTMENT OF TRANSPURIATION

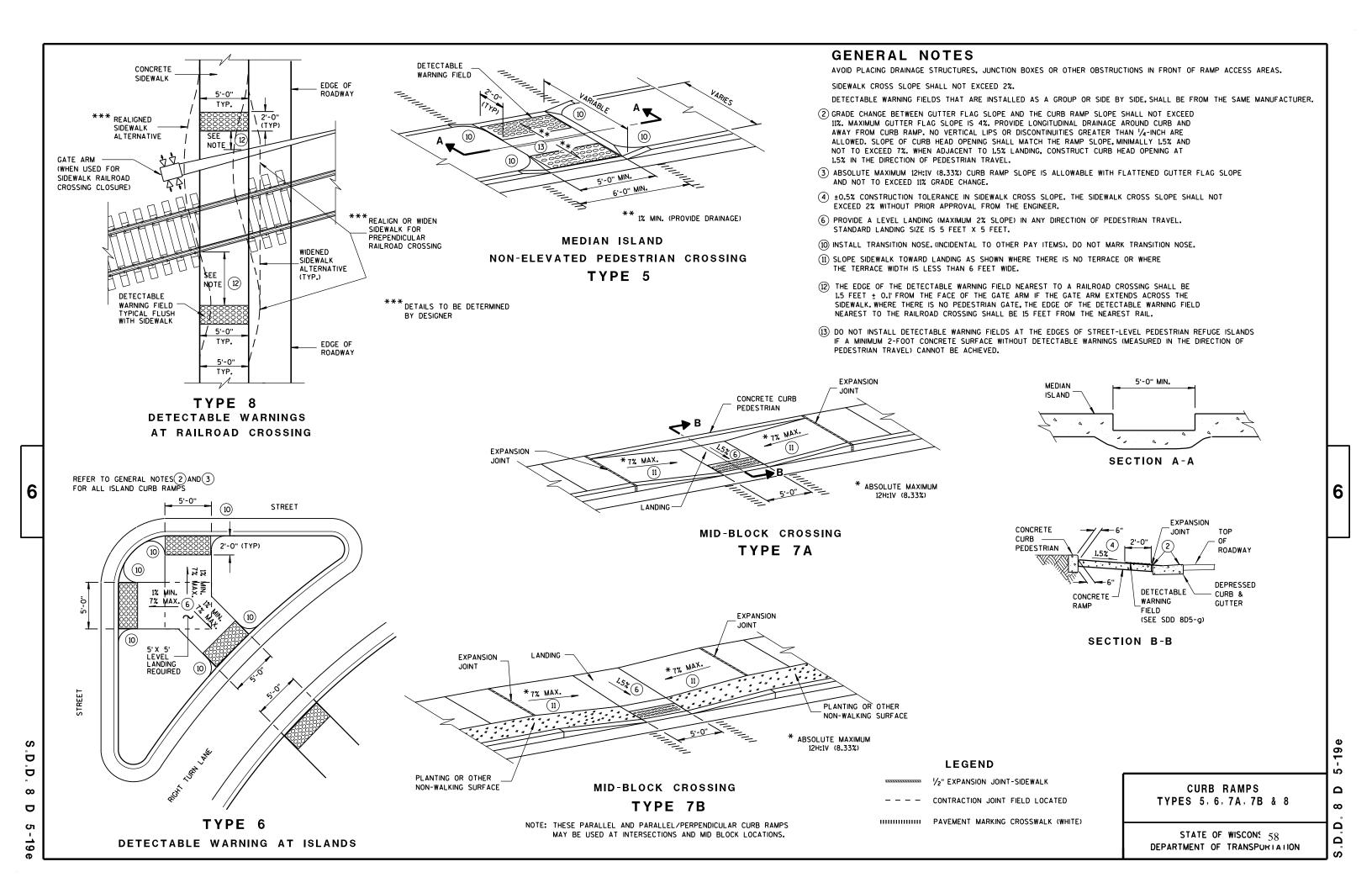
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

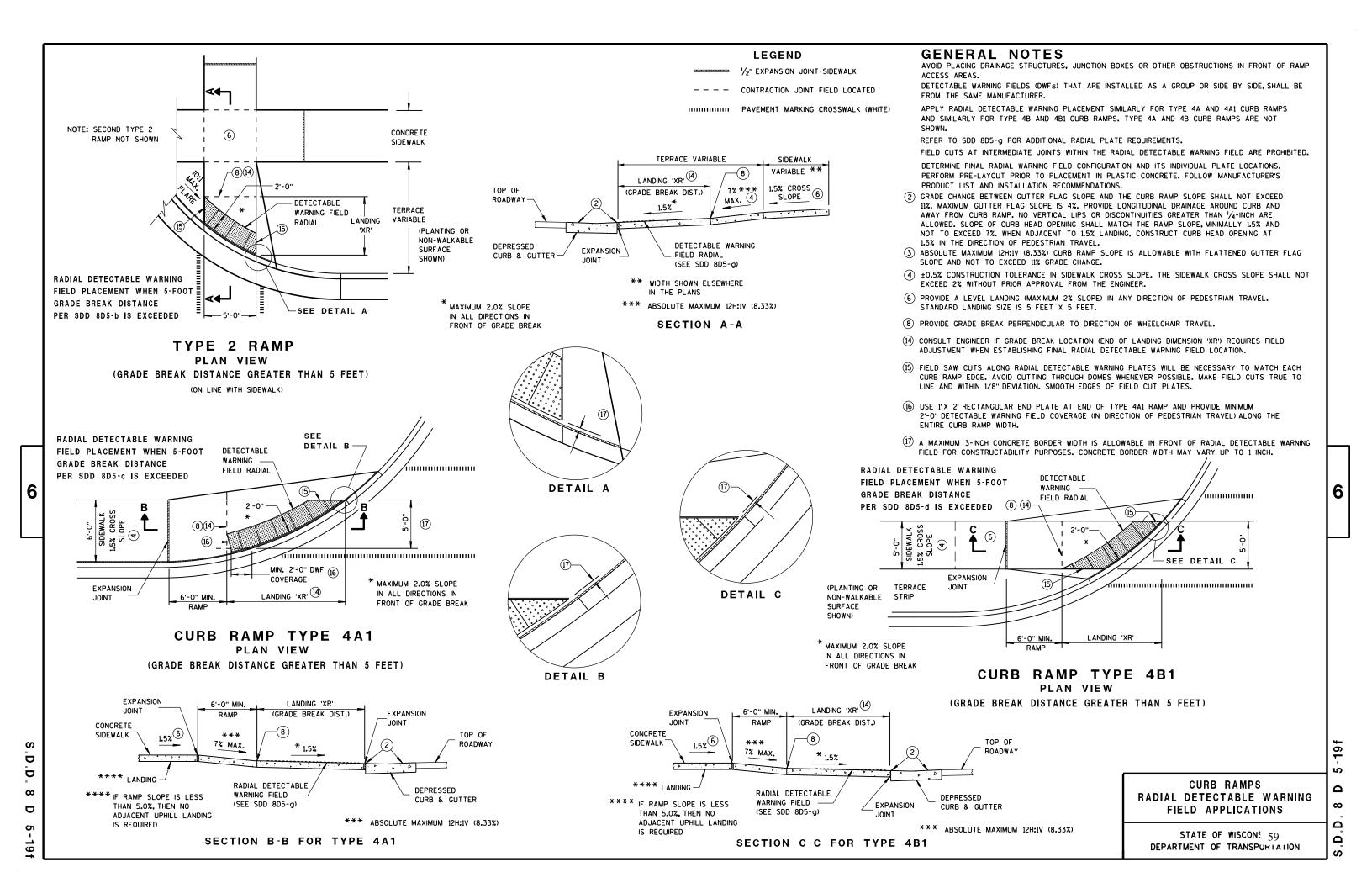
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- (2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- 3 ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- 4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- (6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.
- WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- 8 PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- (10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

HIHHHHH HI PAVEMENT MARKING CROSSWALK (WHITE)







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A F	RAMP ©
A	O B

PL	ΑN	VIEW	!

0.0 C	
ELEVA	TION VIEW

1.4" THE C DIMENSION IS 50% TO

65% OF THE D DIMENSION.

MIN.

1.6"

0.65"

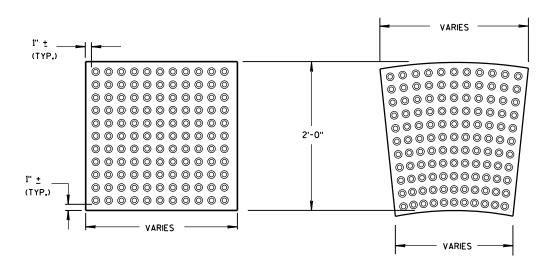
В

MAX

2.4"

1.5"

TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL **PLATES**

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW

GENERAL NOTES

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

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

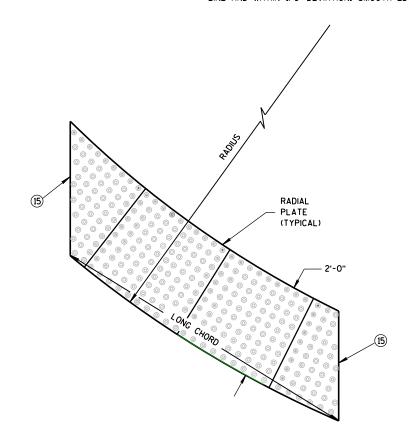
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



RADIAL DETECTABLE **WARNING FIELD ATTRIBUTES**

CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

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DEPARTMENT OF TRANSPORTATION

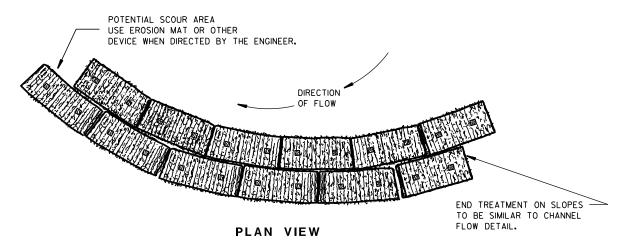
APPROVED

June, 2017 /S/ Rodney T ROADWAY STANDARDS 60 OPMENT UNIT SUPERVISOR

STATE OF WISCONSIN

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

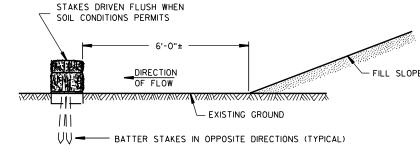
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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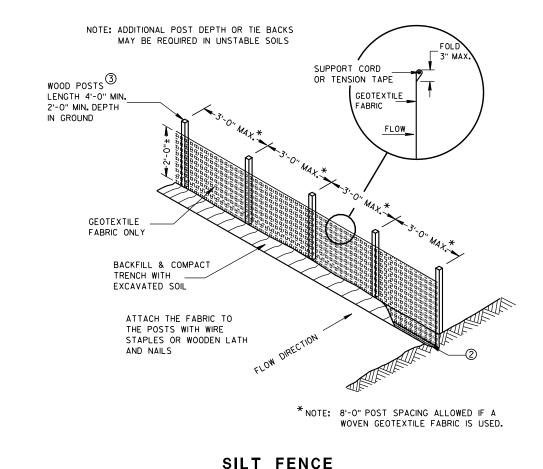
TYPICAL APPLICATION OF SILT FENCE

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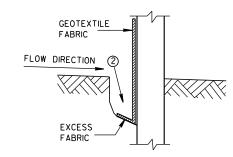
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



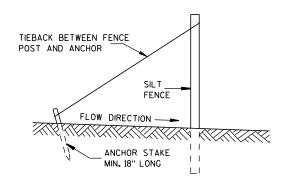
GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

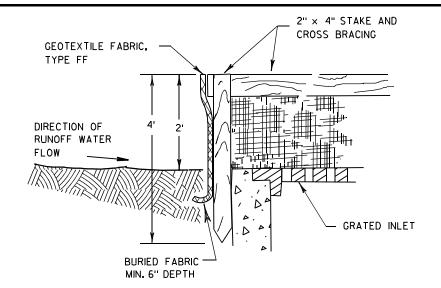
APPROVED

4-29-05
DATE
CHIEF ROADWAY DEVELO: WILLIAM ENGINEER

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INLET PROTECTION, TYPE A

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

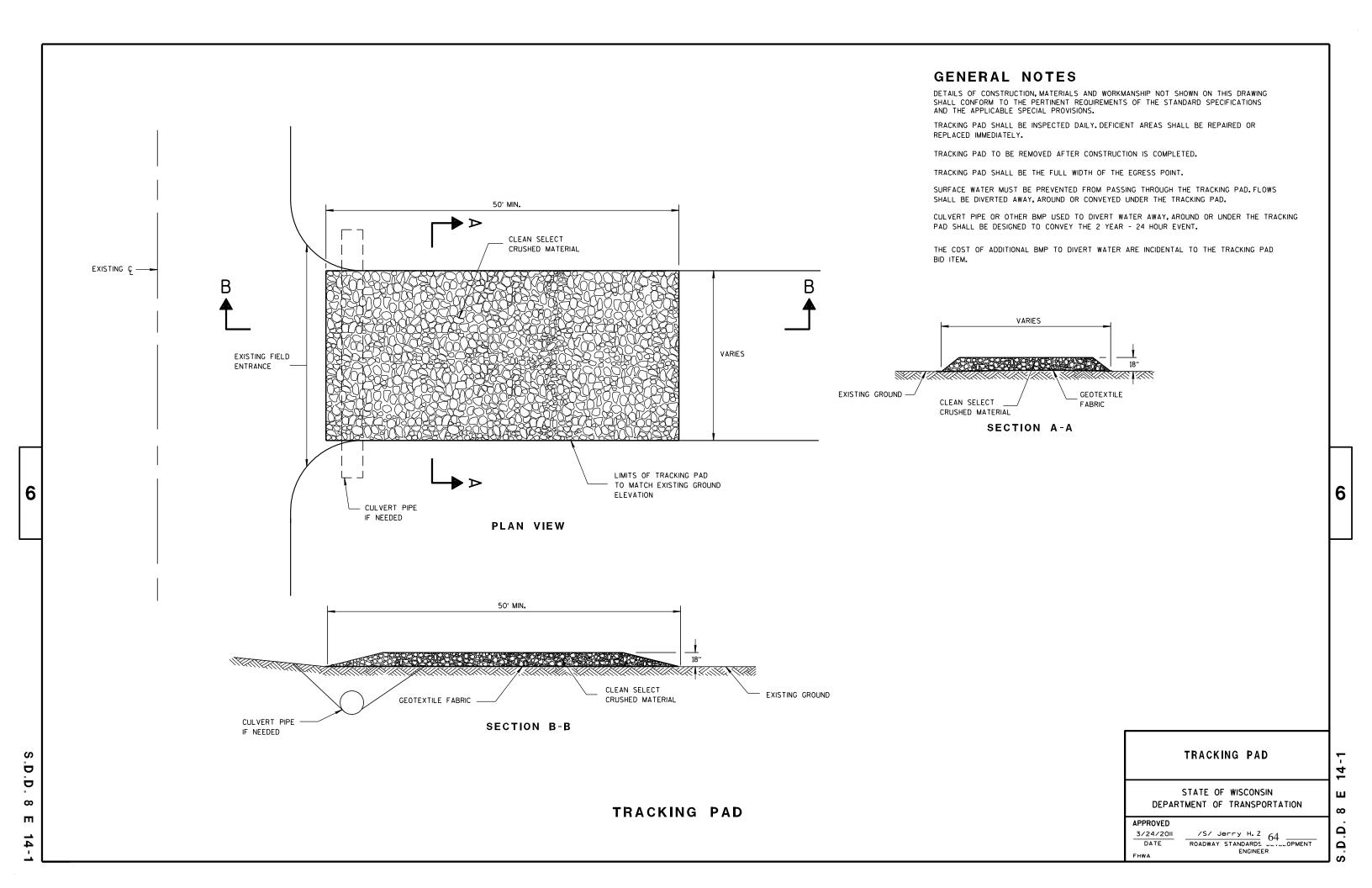
APPROVED

10/16/02 /S/ Beth Can 63 a CHIEF ROADWAY DEVELOPMENT ENGINEER

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1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

12" C-C MAX. SPACING

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METAL APRON ENDWALLS											
PIPE	MIN. 1	тніск.				SIONS (II				APPROX.	
DIA. (IN.)	(Inches) STEEL ALUM.		A (±]")	B (MAX.)	H (±]")	L (±1 ½")	L ₁	L ₂	W (±2")	SLOPE	BODY
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1 Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½+o 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	2½+o 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	21/2+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+0 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+0 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75%	84	21/2+o 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	. 105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	1½+o 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	1½+o 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	I —	150	11/2+0 1	3 Pc.

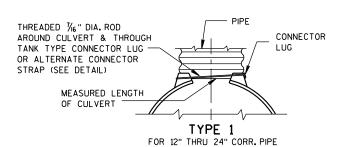
	REINFORCED CONCRETE APRON ENDWALLS							.LS
PIPE	DIMENSIONS (Inches)						APPROX.	
DIA.	T	A	В	С	D	E	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	21/2	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	$43\frac{1}{2}$	30	731/2	48	3	3 to 1
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	19¾	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2	27	65	* ** 33 ¹ / ₄ -35	* 98¹⁄₄- 100	90	51/2	2% to 1
60	6	* ** 30-35	60	39	99	96	5	2 to 1
66	61/2	* ** 24-30	* ** 72-78	* ** 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

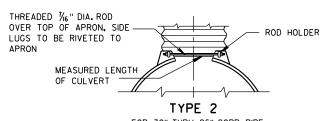
*MINIMUM

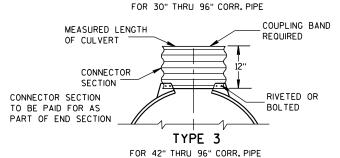
**MAXIMUM

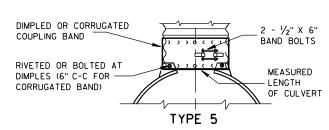
1" WIDE. 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP









ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS

0.109" THICK GALV. STEEL OR 0.109" THICK ALUMINUM APRON 3/8" DIA. RIVETS SPACED SIDEWALL @ 6" C-C SHEET 1" O.D. X O.079" THICK GALV. STEEL OR 0.075" THICK ALUM. TUBING SLIPPED OVER SHEET AND RIVETS PRIOR TO FABRI-CATION OF THE END SECTION 3/8" DIA. X 1/2" GALV. STEEL OR ALUM. BUTTONHEAD RIVETS SPACED AT 6" C-C. OVER-LENGTH OF RIVET = 0.78" OUTSIDE OF APRON SIDEWALL SHEET EDGE OF SIDEWALL SHEET MINIMUM $\%_6$ " DIA. GALV. STEEL ROD OR NO. 4 GALV. REINFORCING BAR ROLLED SNUGLY AGAINST 1/8" (APPROX.)

SECTION A-A

GENERAL NOTES

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

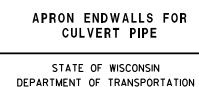
CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

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

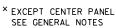
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES.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

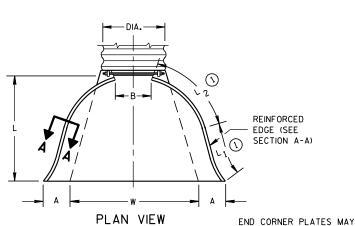
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

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



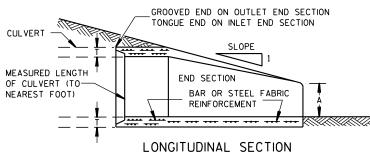
/S/ Rory L. Rh 65 ith 11/30/94 CHIEF ROADWAY DEVELO MILITI ENGINEER





BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER END CORNER

TOE PLATE (SAME THICKNESS AND METAL AS APRON) SHALL BE FURNISHED WHEN CALLED FOR ON THE PLANS

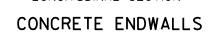


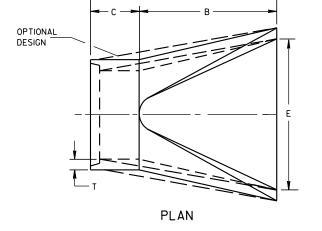
SIDE ELEVATION METAL ENDWALLS

END VIEW

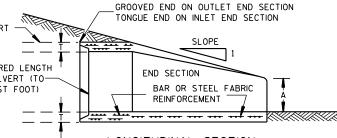
SHOULDER

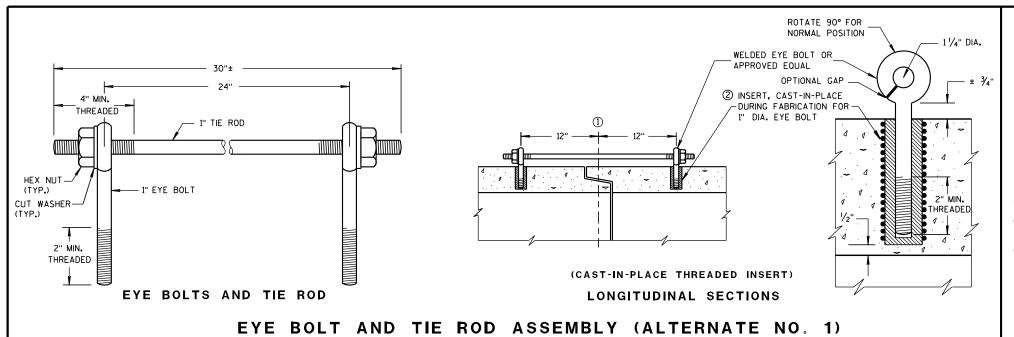
SLOPE





1 1/2" R END VIEW





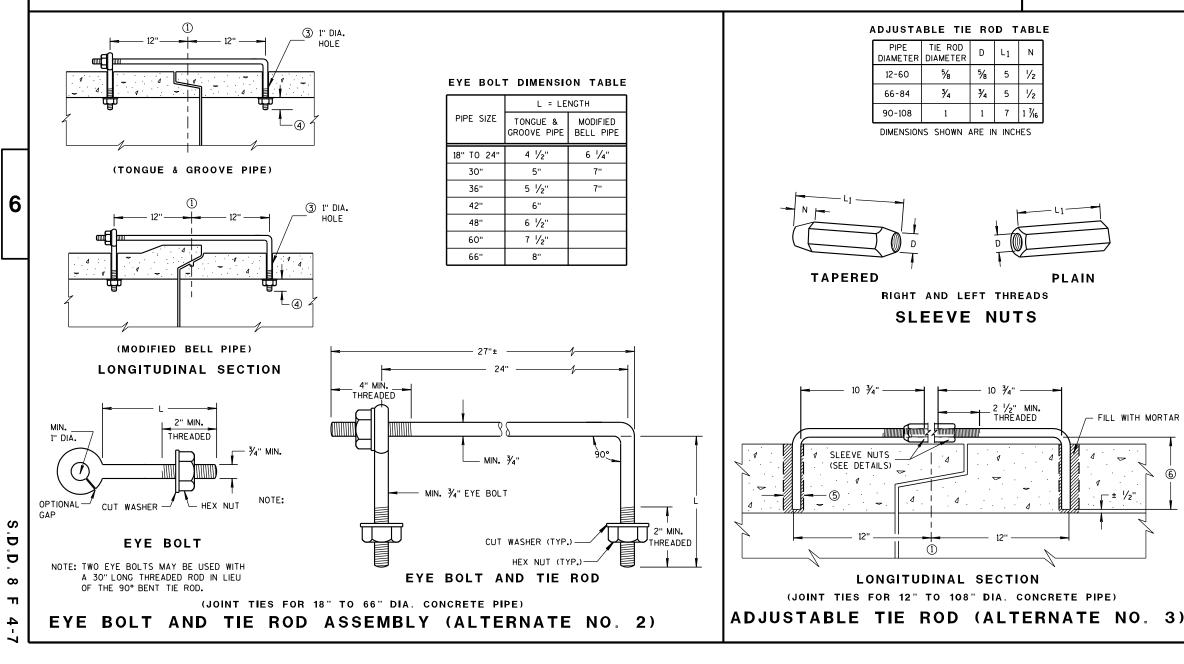
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

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

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

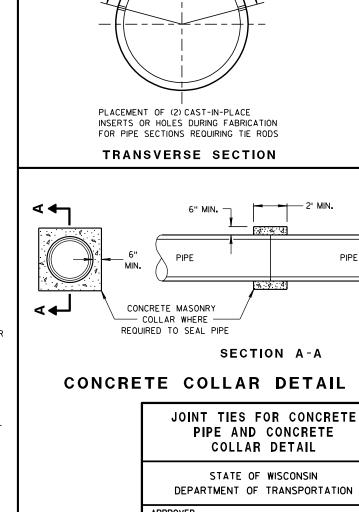
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT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



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

LONGITUDINAL SECTION

(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)



6/5/2012

DATE

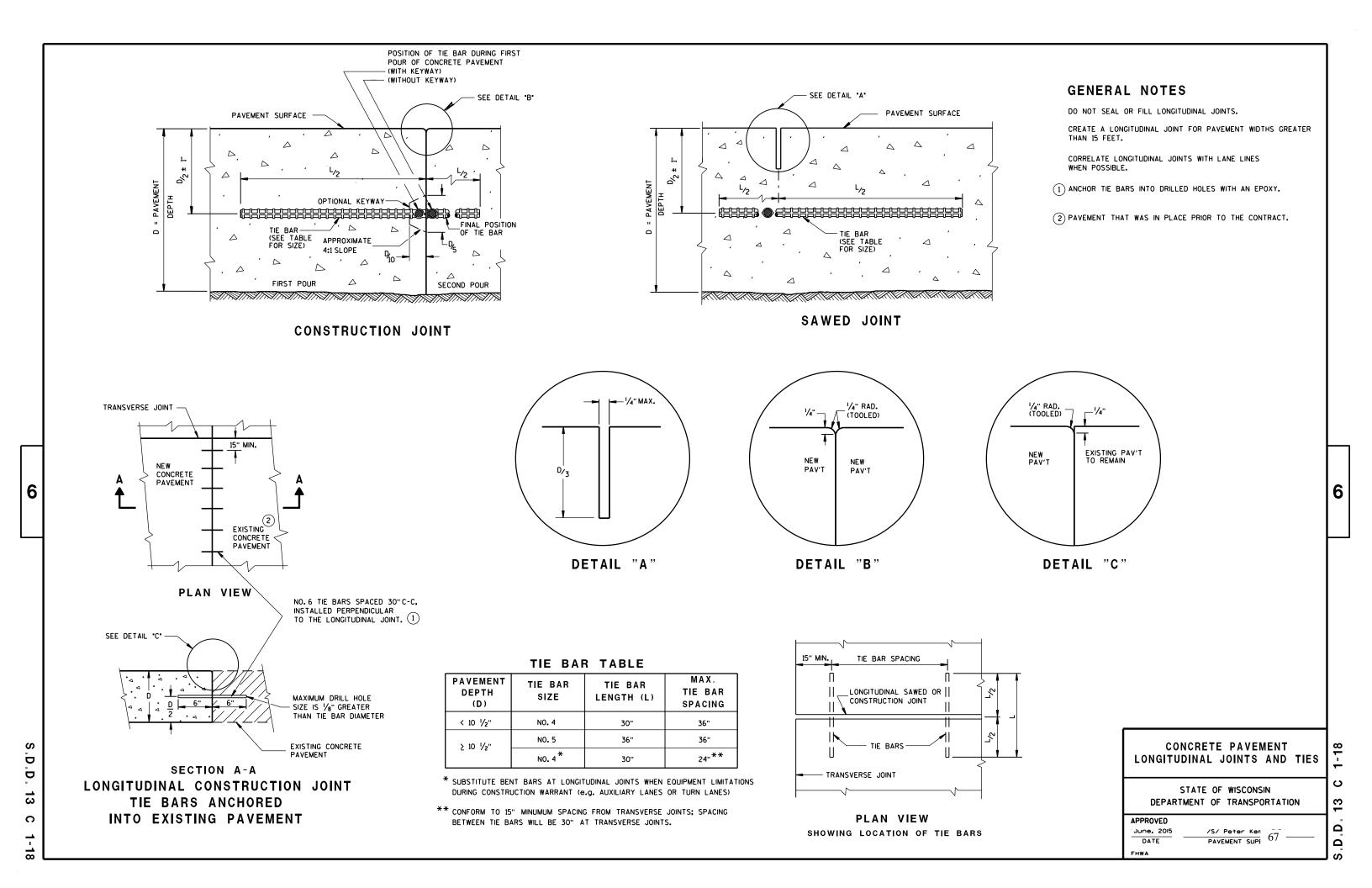
PIPF

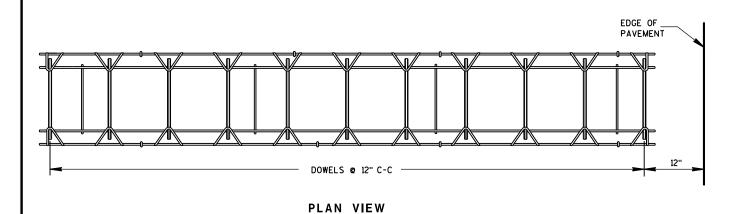
/S/ Jerry + 66 3
ROADWAY STANDARD. - LOPMENT

ENGINEER

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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.

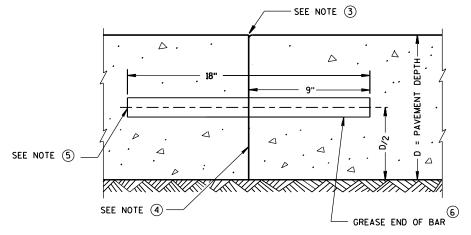
FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE

CONSTRUCTION JOINTS

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

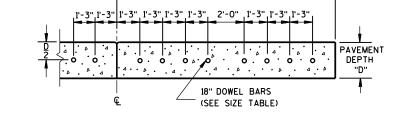
- (1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.
- 2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER 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



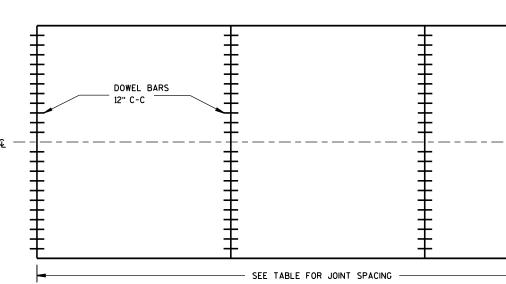
TRANSVERSE CONSTRUCTION JOINT

SEE JOINT DETAIL

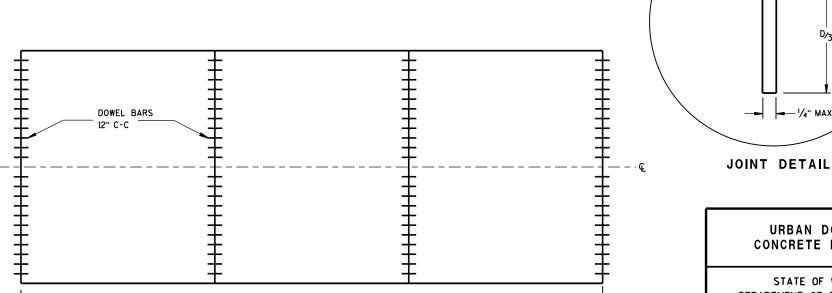


(FOR 11' LANE WIDTH REDUCE CENTER SPACE TO 1'-O")

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



CONTRACTION JOINT LOCATIONS



URBAN DOWELED CONCRETE PAVEMENT

- ¼" MAX.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 5/3/2013 DATE

FHWA

/S/ Deb Bisc PAVEMENT POLICY & [68 INGINEER

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

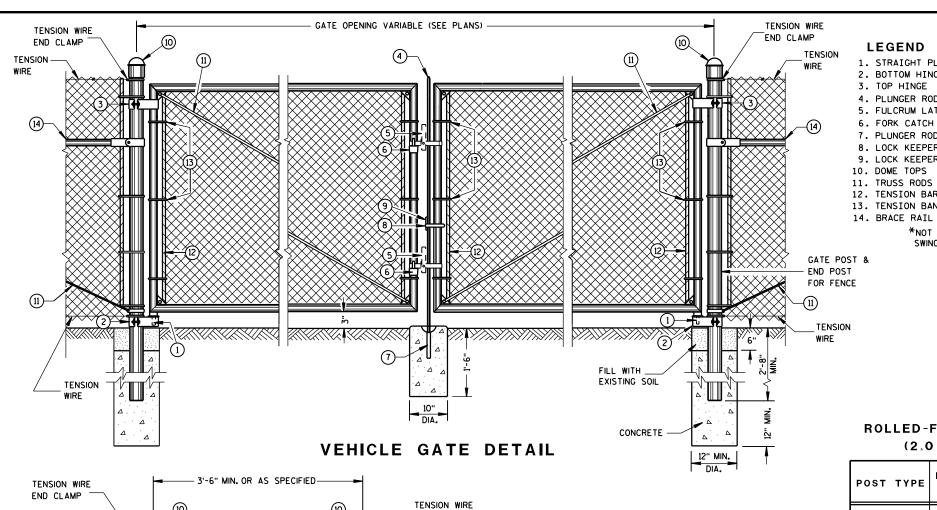
(SEE SIZE TABLE)

DOWELED CONTRACTION JOINT

D D $\overline{\omega}$ C

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END CLAMP

EXISTING SOIL

PEDESTRIAN GATE DETAIL

CONCRETE

12" MIN.

CONCRETE

12" MIN.

TENSION

GATE POST &

END POST

FOR FENCE

TENSION -

GATE POST &

TENSION

END POST

FOR FENCE

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REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL	LESS THAN OR EQUAL TO 6 FT.	SP3
POSTS **	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EOUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE	TYPE
BRACE RAIL	SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

- 1. STRAIGHT PLUG
- 2. BOTTOM HINGE
- TOP HINGE
- 4. PLUNGER ROD
- 5. FULCRUM LATCH
- 6. FORK CATCH *
- 7. PLUNGER ROD CATCH
- 8. LOCK KEEPER GUIDE
- 9. LOCK KEEPER
- 10. DOME TOPS
- 11. TRUSS RODS
- 12. TENSION BAR
- 13. TENSION BANDS

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

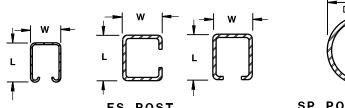
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

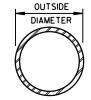
FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.





SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) Inch	WIDTH (W)	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

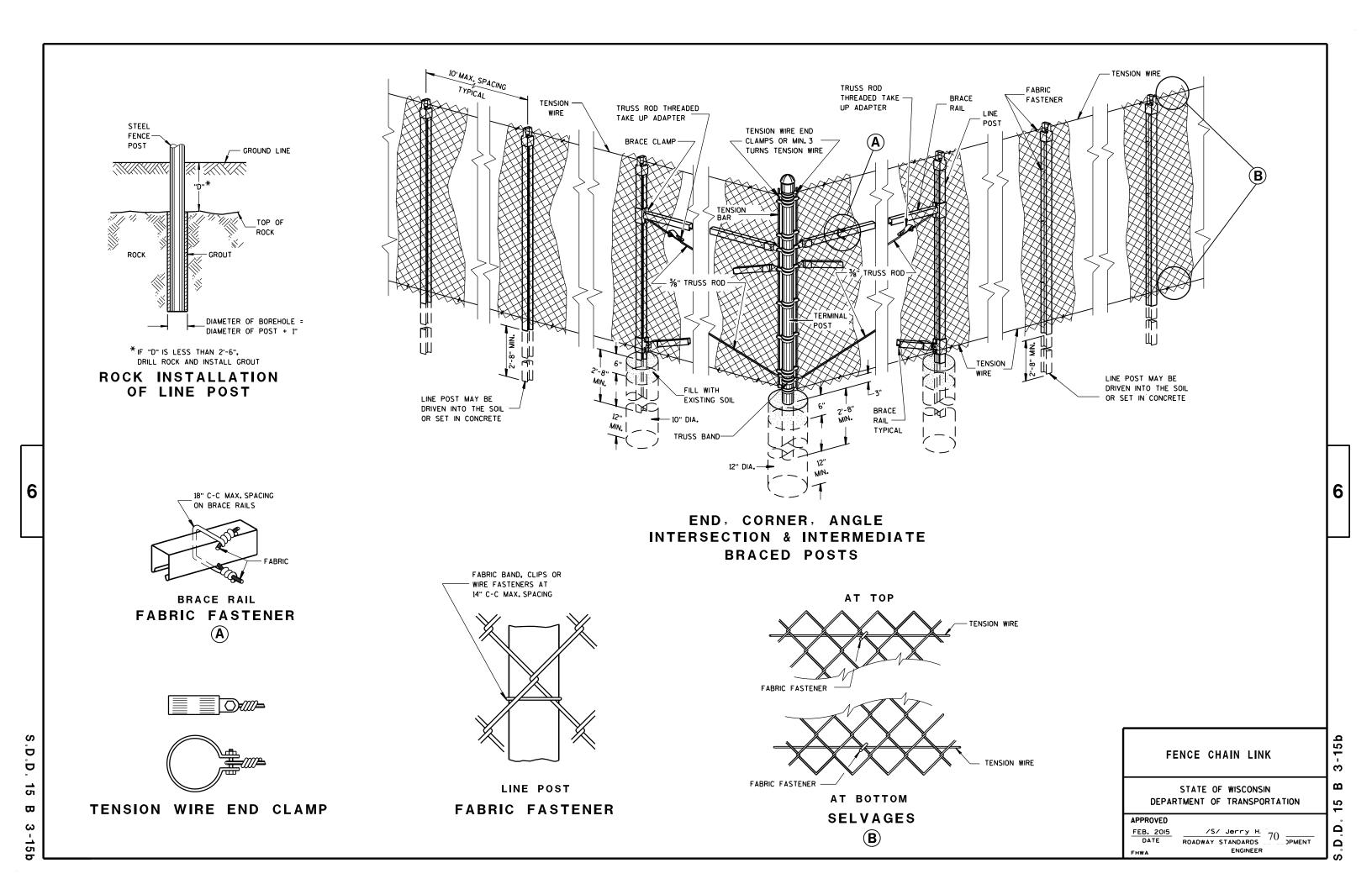
POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

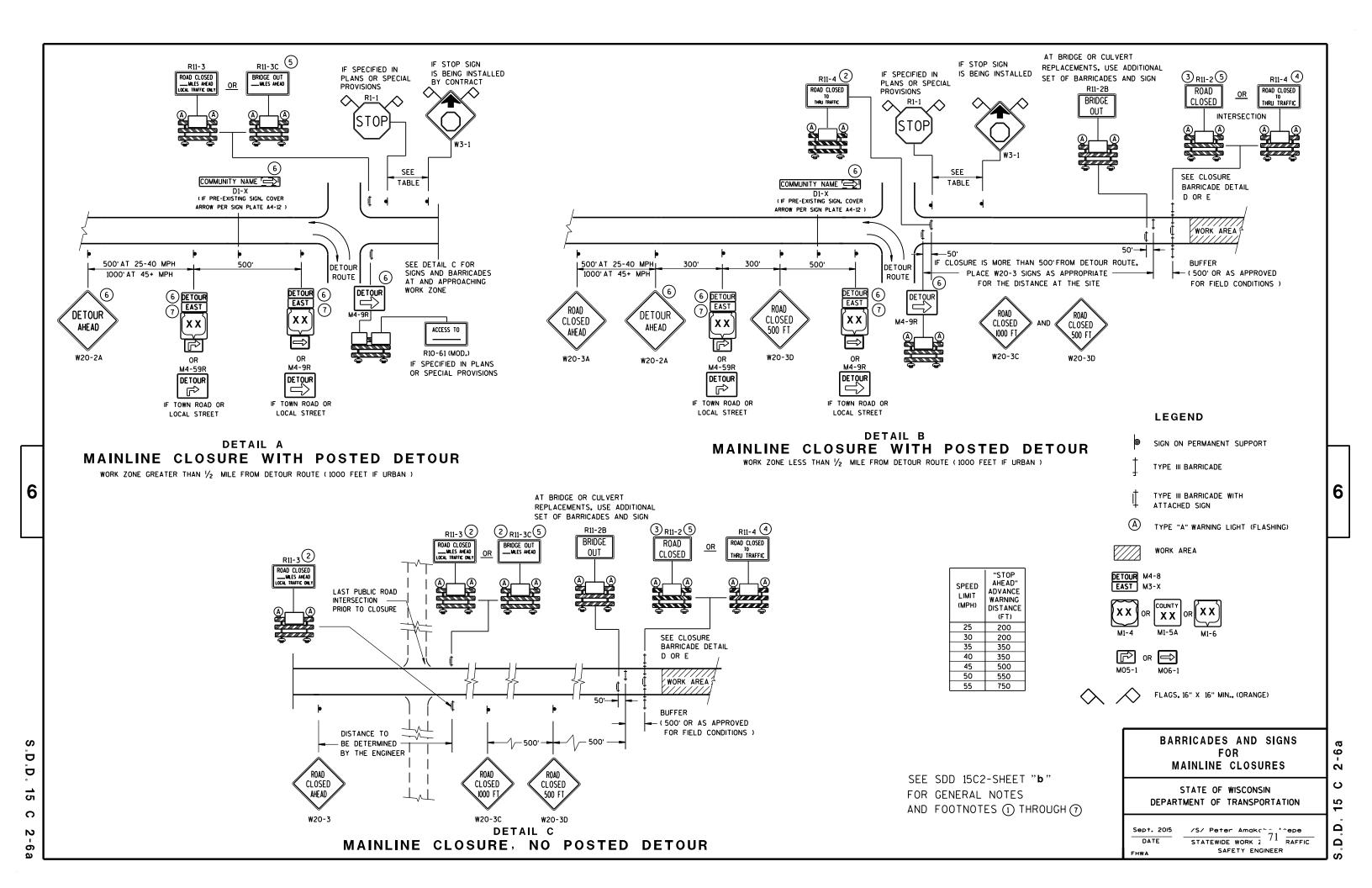
REQUIRED POST SIZE FOR GATES

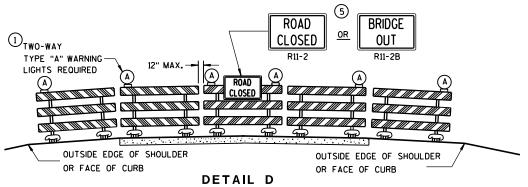
USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EOUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EOUAL TO 23 FT.	SP7
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STATE OF WISCONS 69 DEPARTMENT OF TRANSPURIATION က \mathbf{B}

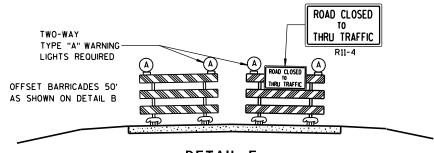






ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

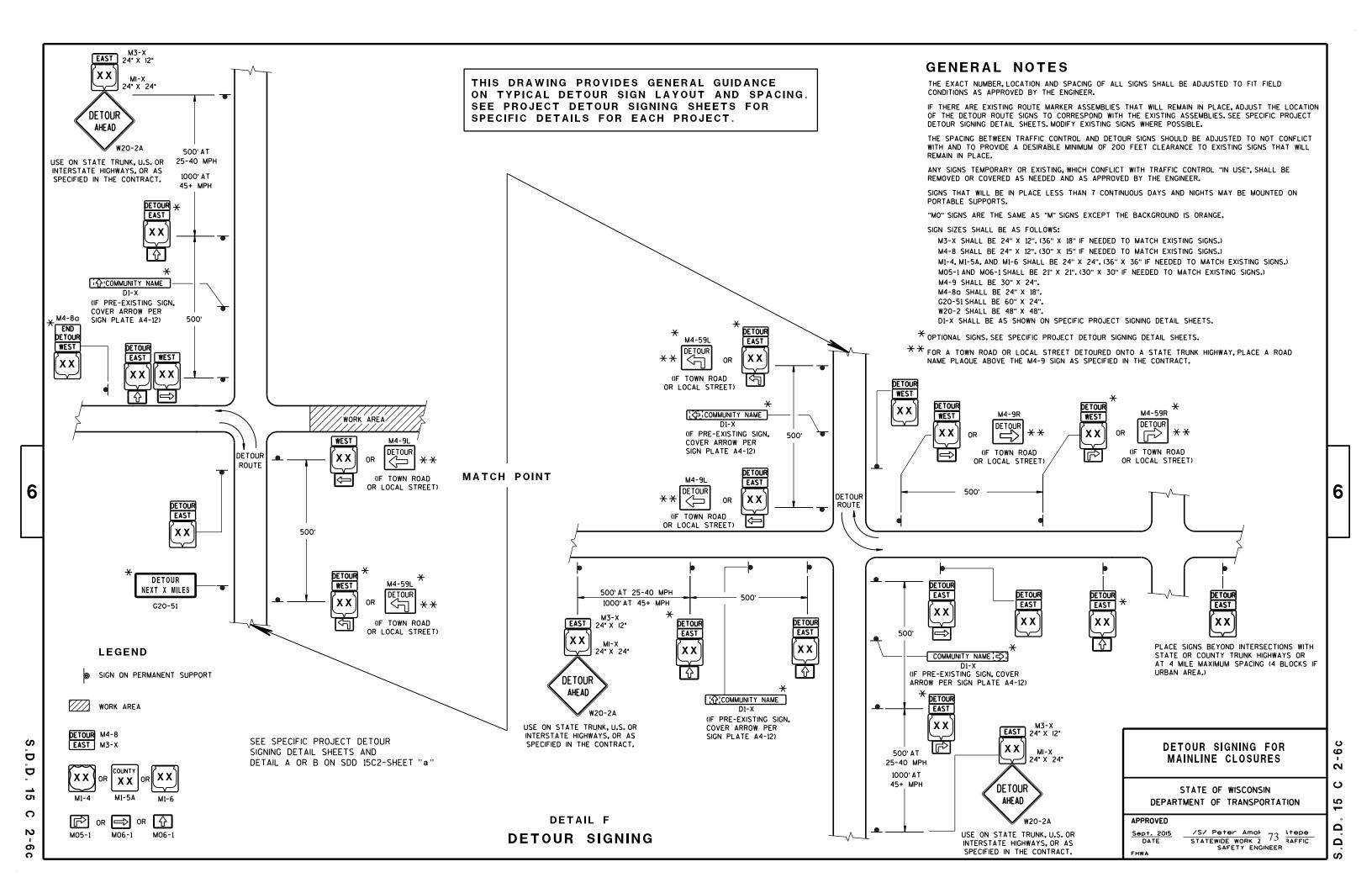
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakc 72 Tepe SAFETY ENGINEER



GENERAL NOTES

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

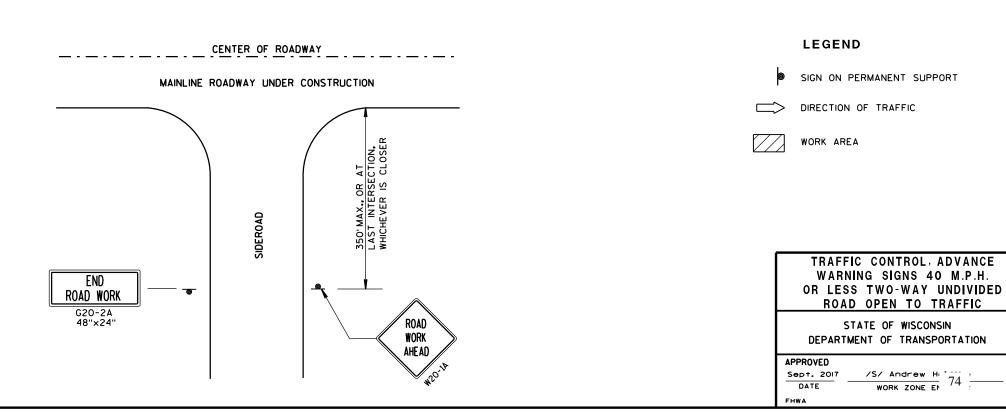
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

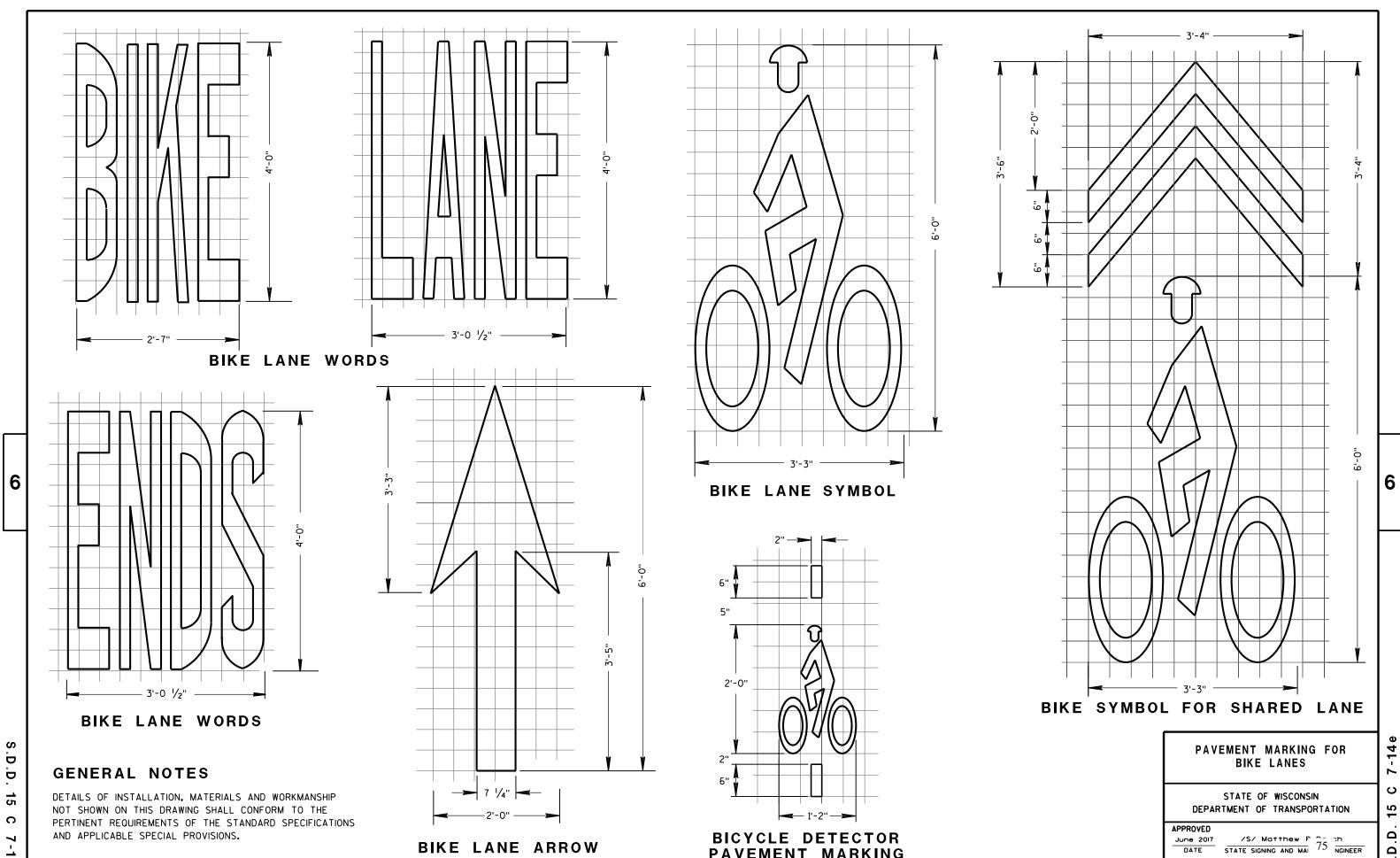
IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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

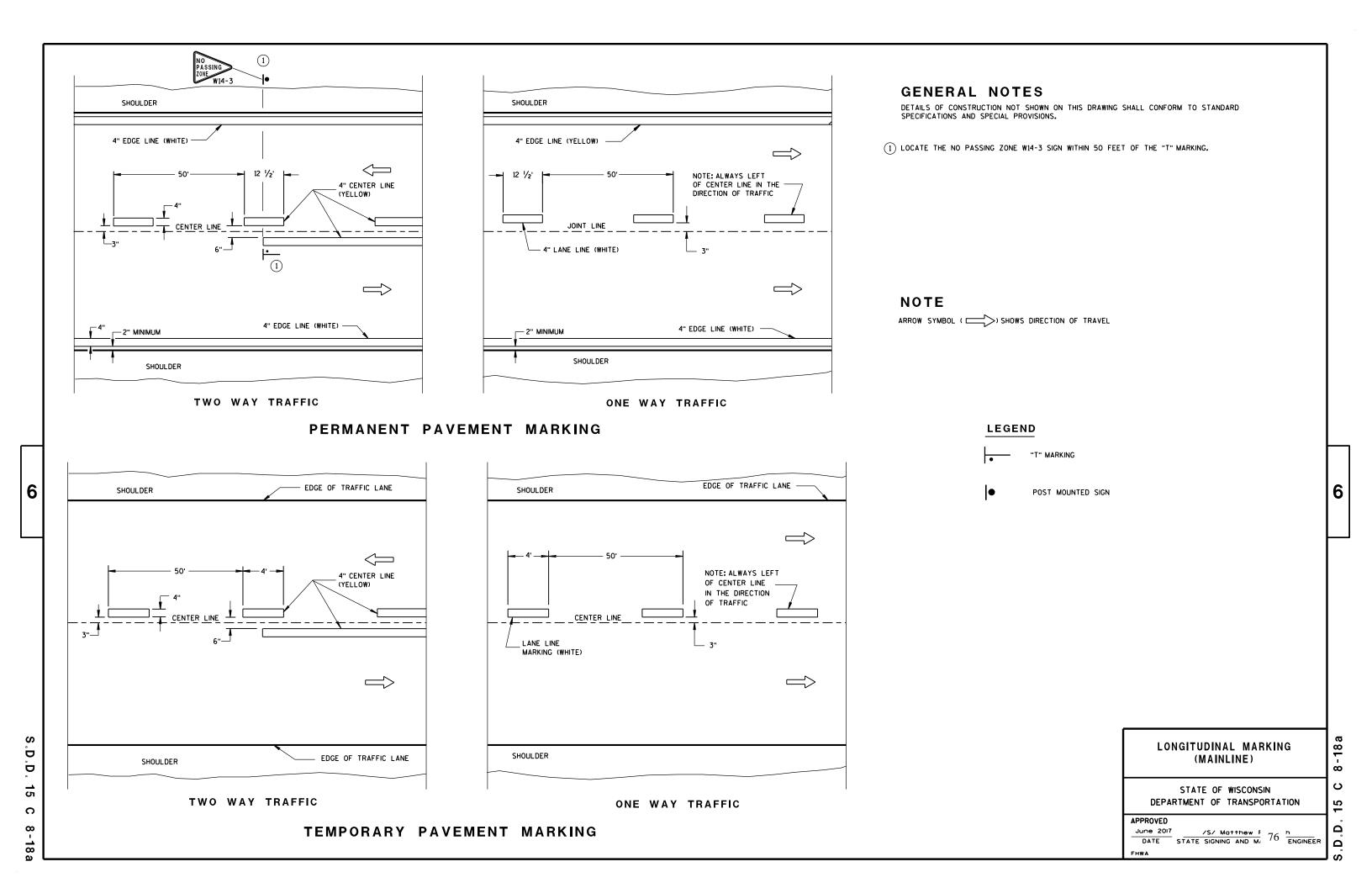


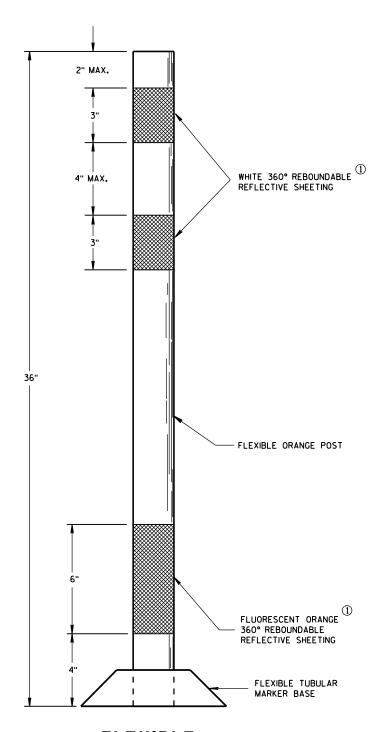
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PAVEMENT MARKING





FLEXIBLE
TUBULAR MARKER POST
WORK ZONE

GENERAL NOTES

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

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

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

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

> CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

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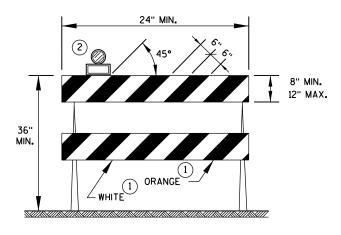
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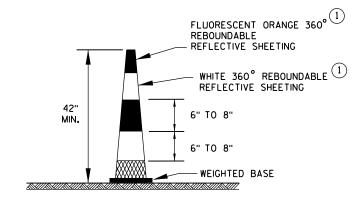
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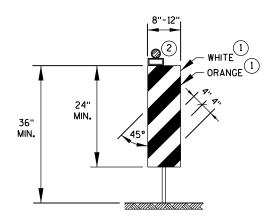
TYPE 2 BARRICADE

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



42" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

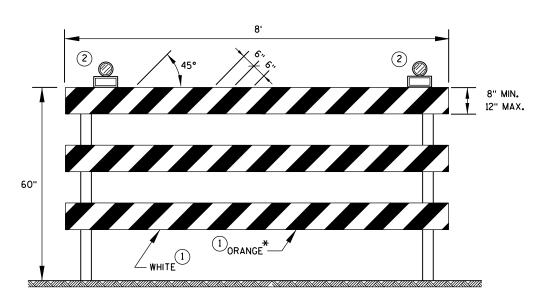


VERTICAL PANEL

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

GENERAL NOTES

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



TYPE 3 BARRICADE

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

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

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

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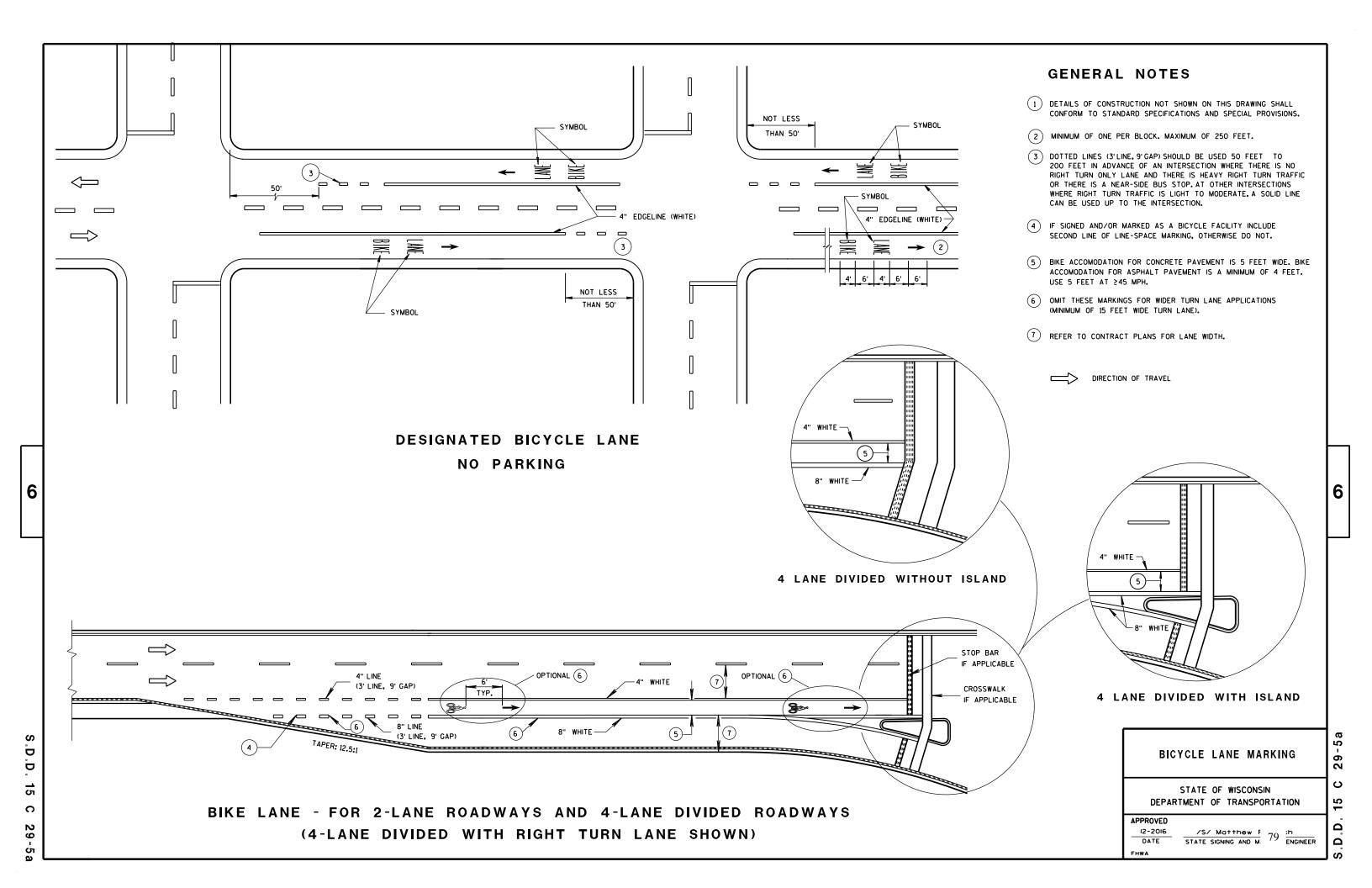
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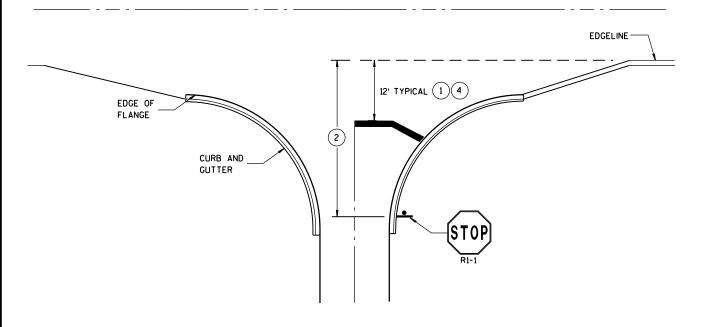
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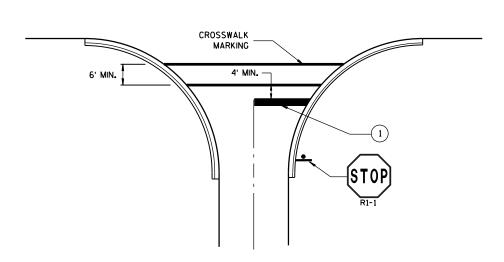




8" CHANNELIZATION WHITE FLANGELINE (EXTENSION) WHITE EDGELINE 4' TYPICAL (4)

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



- EDGELINE 12' TYPICAL (1)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

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

STOP LINE AND CROSSWALK **PAVEMENT MARKING**

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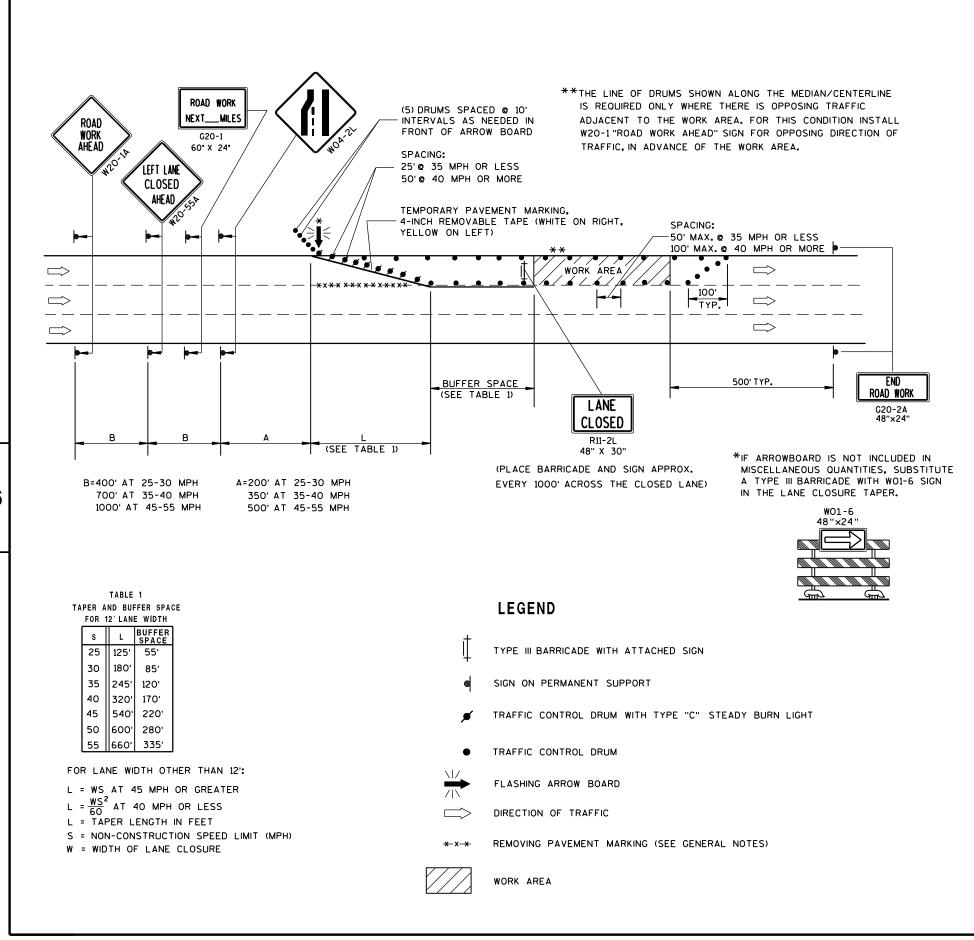
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GENERAL NOTES

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.

W20-1A, G20-1 AND G20-2A 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.

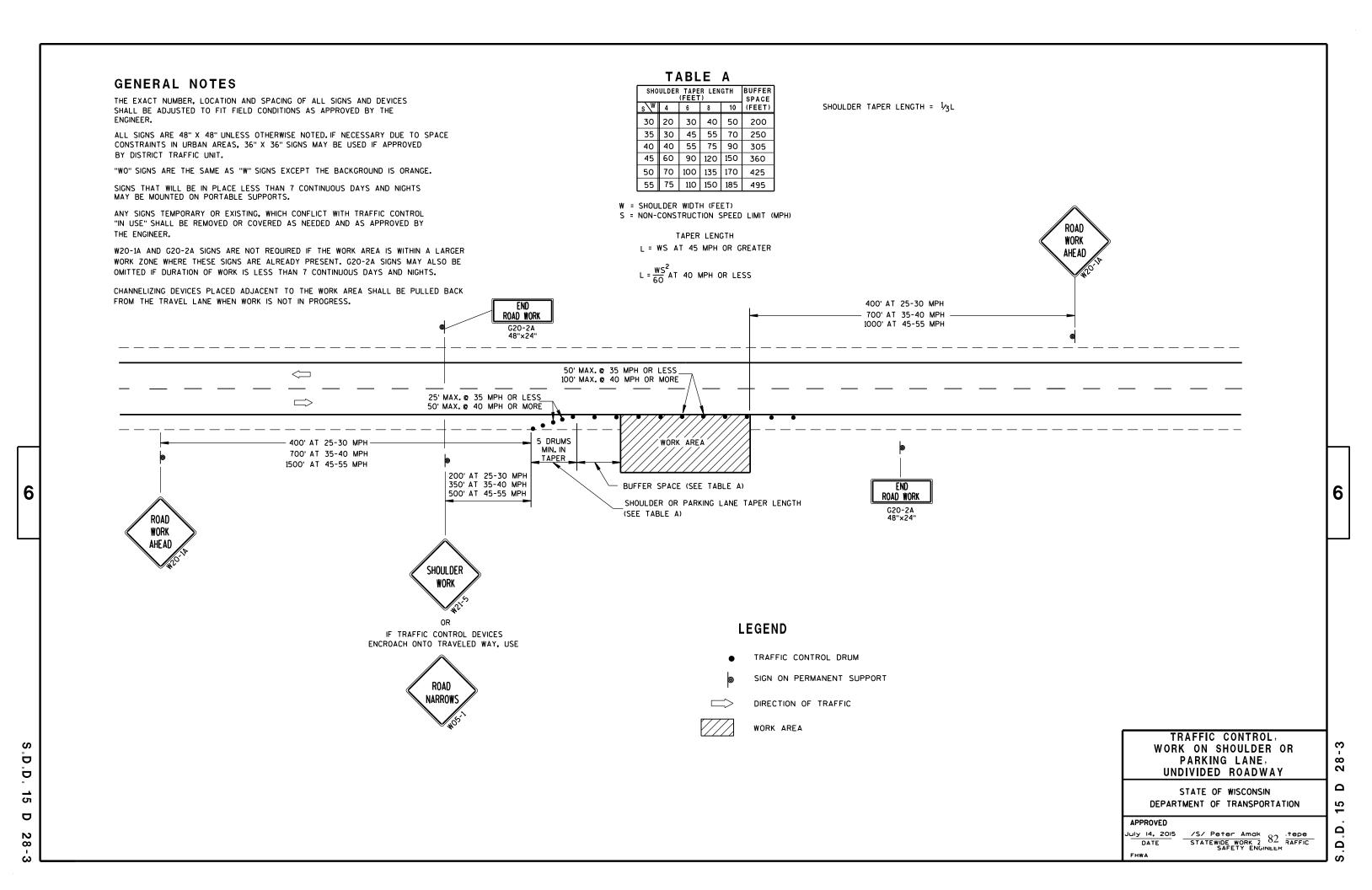
TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

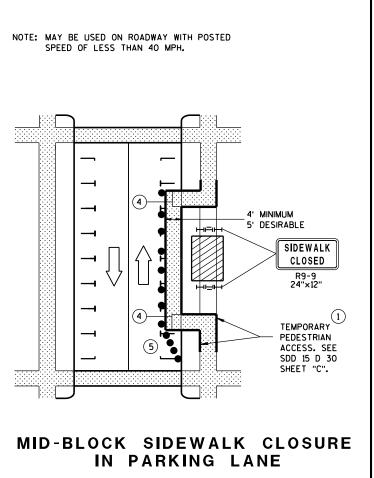
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NOTE: LAYOUT SAME AS ABOVE. 4' MINIMUM 5' DESIRABLE SIDEWALK CLOSED R9-9 TEMPORARY PEDESTRIAN ACCESS. SEE SDD 15 D 30 SHEET "C". SIDEWALK DIVERSION

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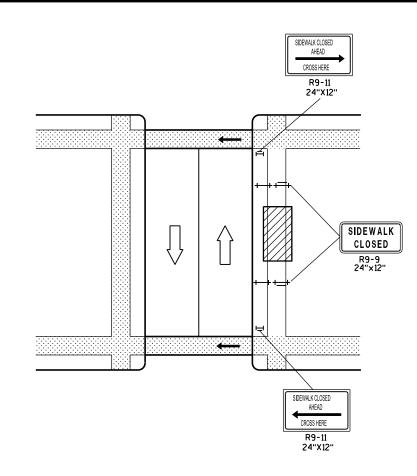
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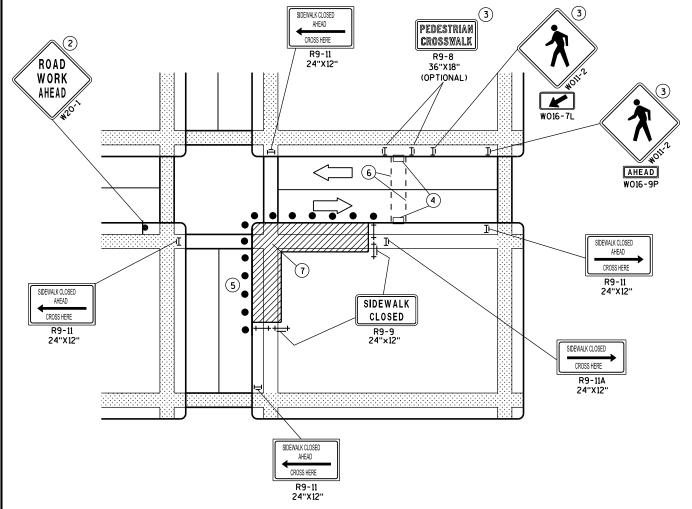
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MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- 1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.
- (2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
- (3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WOI1-2 SIGN ASSEMBLIES, IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
- (4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".
- (5) DRUMS OR BARRICADES AT 25 FOOT SPACING, STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- (6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- (7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN

LEGEND

SIGN ON PERMANENT

SUPPORT UNDER PEDESTRIAN TRAFFIC

DIRECTION OF

TRAFFIC CONTOL DRUM

PEDESTRIAN CHANNELIZATION DEVICE

TRAFFIC

WORK AREA

TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A. LOW-INTENSITY FLASHING)

TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONS 83 DEPARTMENT OF TRANSPURIATION က 0 က Ω Ω Ω PARALLEL TO CURB

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GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION. ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

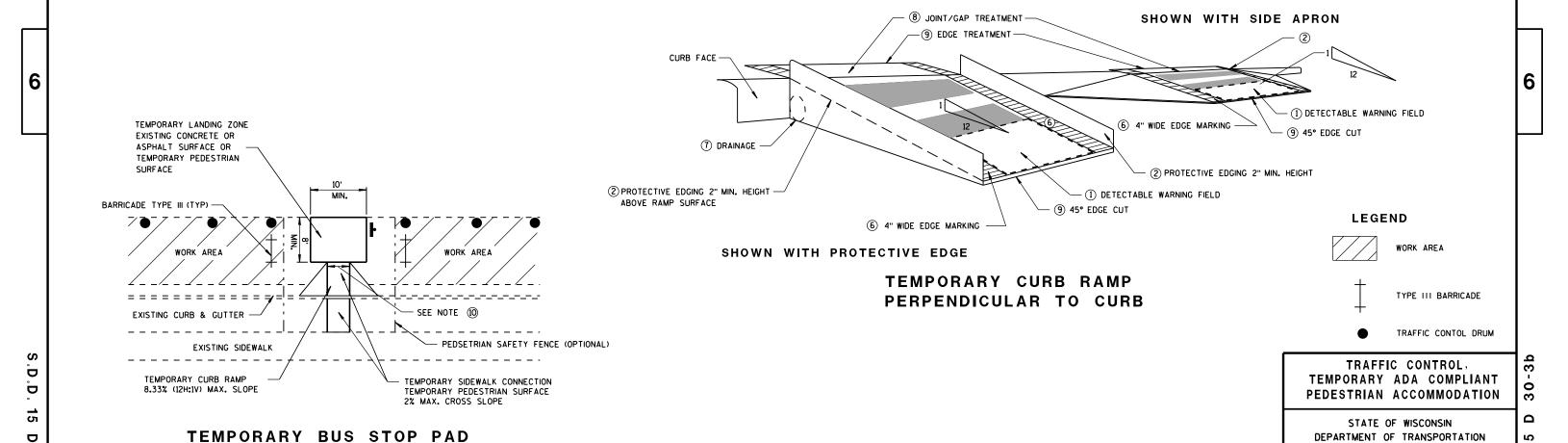
- ① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".
- (2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- 3 DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- (4) CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
- 5 CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- (6) THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
- 7 DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (8) LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- (9) CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".
- 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.

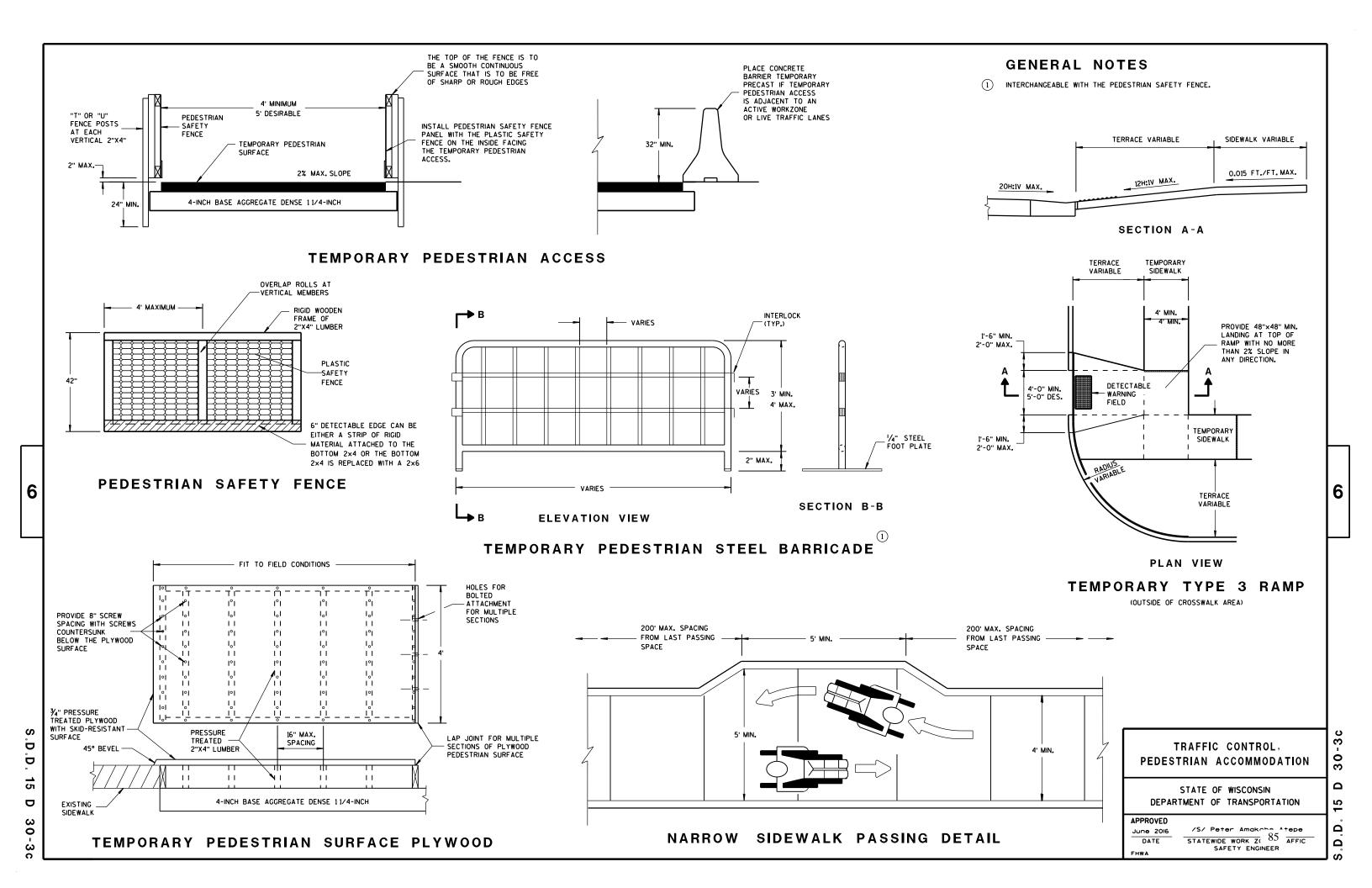
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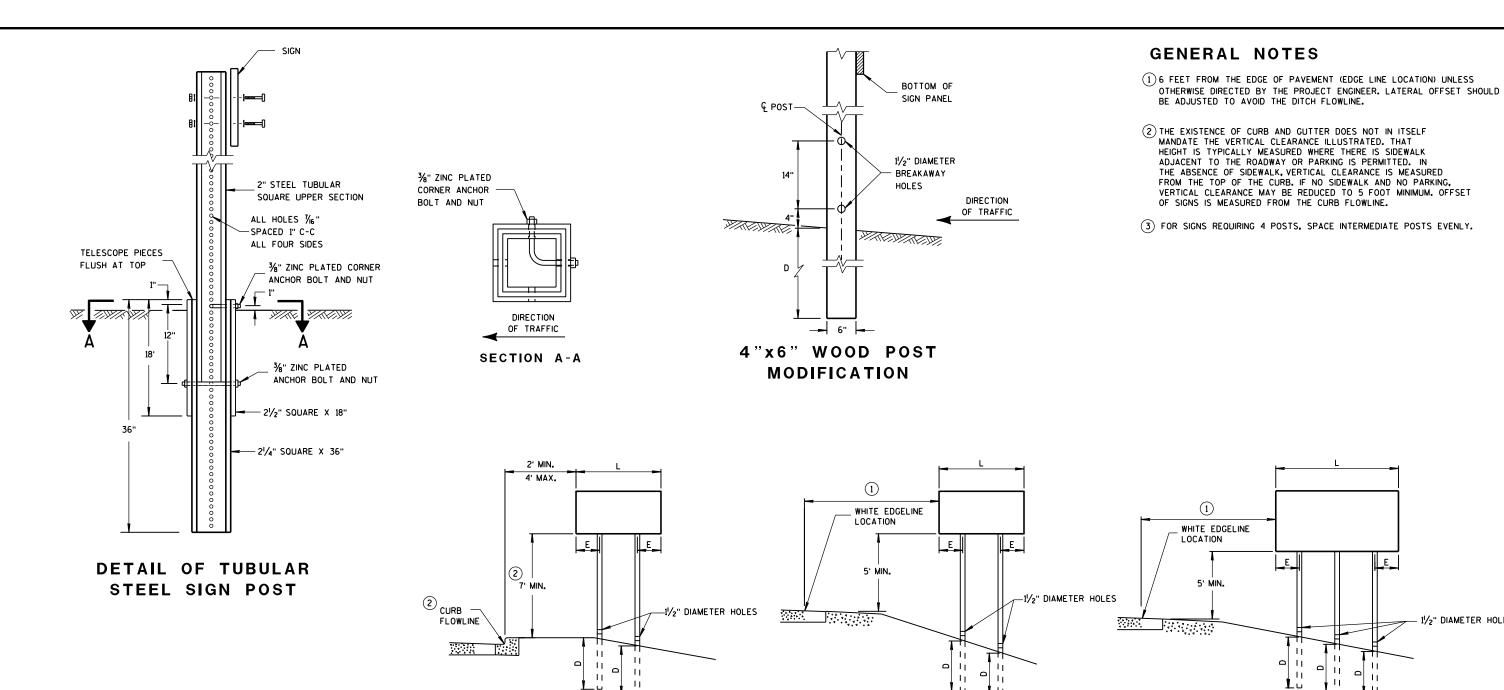
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TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EOUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	MENTS	NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	؛ [
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

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- 11/2" DIAMETER HOLES

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D. OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SO. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS 6

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DATE
WORK ZONE E

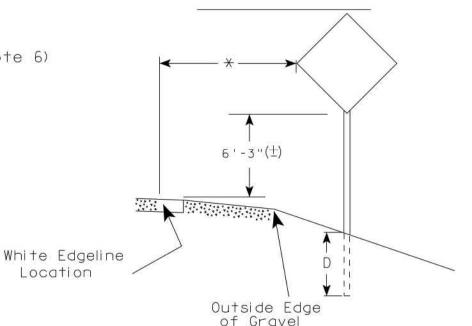
87

S.D.D. 15 D 38-2b

SHEBOYGAN

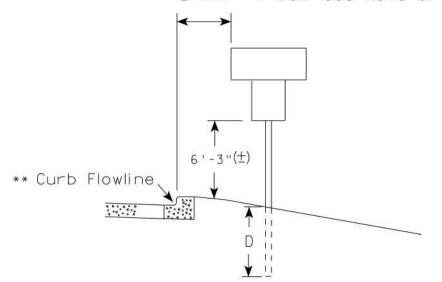
SIGN PLATES

RURAL AREA (See Note 2)



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

Location



5'-3"(±) Section - Assessment -White Edgeline D !! Location Outside Edge 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

* 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.

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 7/23/15

SHEET NO:

PROJECT NO: 4996-22-71

measured from the flow line.

HWY: NON-HIGHWAY

COUNTY: SHEBOYGAN

SIGN PLATES

PLOT BY: mscj9h

PLOT DATE: 23-JUL-2015 15:21

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

PLATE 44-3.20

GENERAL NOTES 1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on SHEBOYGAN multiple posts. Refer to plate A4-4. 2. Offset distance shall be consistent with existing signs or consistent throughout length of project. OVERHEAD SIGN OR SIGN PLATES OTHER CONTROL DEVICE POST EMBEDMENT DEPTH Area of Sign D Installation (Min) (Sq. Ft.) ←2'→ POST 20 or Less 4' MIN 8' MIN MIN | MOUNTED Greater than 20 5' SIGN 4 ' Edge of Shared-Use Path MIN TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON MULTI USE PATHS WISCONSIN DEPT OF TRANSPORTATION APPROVED Matthew & Raugh for State Traffic Engineer DATE 3/5/2012 PLATE NO. A4-35.1

PROJECT NO:4996-22-71

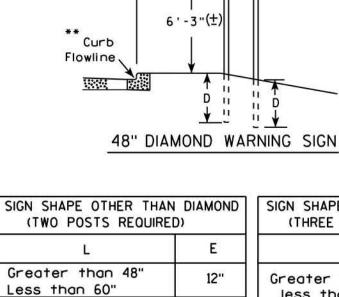
HWY: NON-HIGHWAY

COUNTY: SHEBOYGAN

PLOT NAME :

SIGN PLATES

* * *



L/5

URBAN AREA

HE+

D 11

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

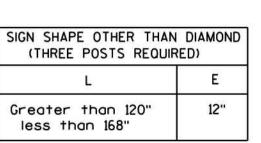
7'-3"(±)

** Curb

Flowline

7870A

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



White Edgeline

Location

SIGN SHAPE OTHER THA (FOUR POSTS REQUIF	
Ĺ	E
168" and greater	12"

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPI	CAL INS	TALLATION
OF	TYPE I	SIGNS
ON	MULTIPL	E POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 7/23/15 PLATE NO. 90 4.14

SHEET NO:

HWY: NON-HIGHWAY

COUNTY: SHEBOYGAN PLOT DATE: 23-JUL-2015 15:23

RURAL

6'-3"(±)

Outside Edge

5'-3"(±)

48" DIAMOND WARNING SIGN

Outside Edge

of Gravel

of Gravel

White Edgeline,

Location

+F+

26"

AREA (See Note 3)

SIGN PLATES

PLOT BY : mscj9h

6'-3"(±)

Outside Edge

of Gravel

D

1000

White Edgeline

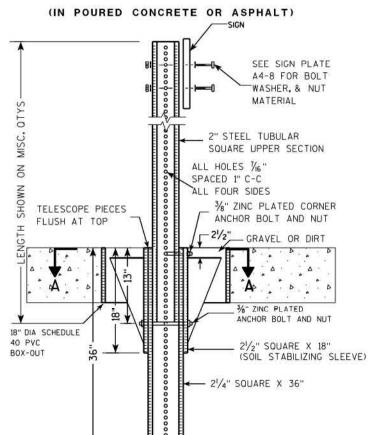
Location

PLOT SCALE: 107.021305:1.000000

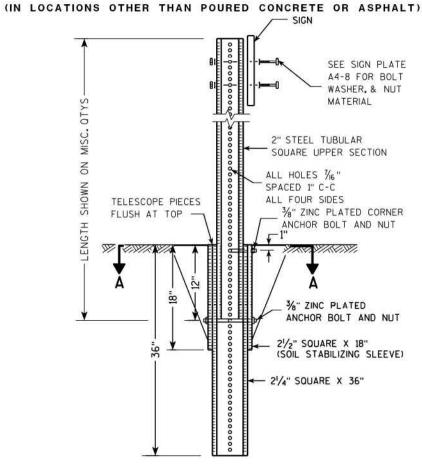
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

60" to 120"

PROJECT NO: 4996-22-71



DETAIL OF TUBULAR STEEL SIGN POST



3/8" ZINC PLATED CORNER ANCHOR BOLT AND NUT SECTION A-A

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

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

TUBULAR STEEL SIGN POST A4 - 9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 2/05/15

PLA 91 . A4-9.9

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

PROJECT NO: 4996-22-71

TELESCOPIC TUBING ANCHORS

TWO PIECE SYSTEM

2 1/2" TELESPAR TUBE

4" × 10" × 10 GA.

STEEL PLATE (CUT AS SHOWN) WELDED TO ALL FOUR CORNERS OF TELESPAR TUBE

ALL HOLES 1/16"

_SPACED 1" C-C

ALL FOUR SIDES

2 1/2" SQUARE

12 GAUGE

OMNI-DIRECTIONAL

PERFORATED

SOIL STABILIZING SLEEVE

GALVANIZED FINISH

HWY: NON-HIGHWAY

PLOT DATE: 05-FEB-2015 17:09

COUNTY: SHEBOYGAN

PLOT NAME :

SIGN PLATES

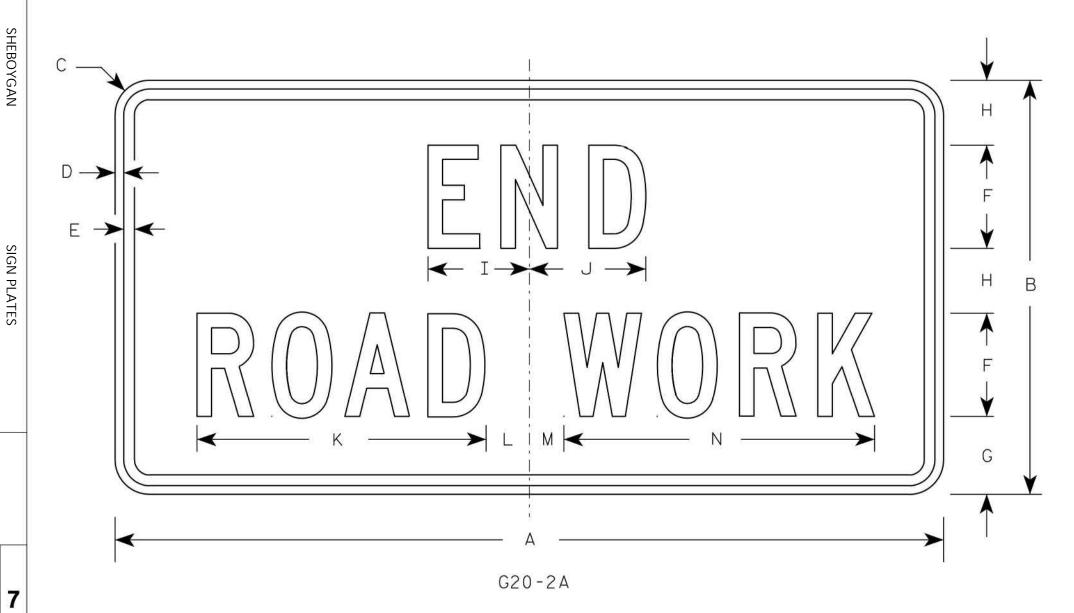
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

2. Color:

Background - Orange Message - Black

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



Metric equivalent for this sign is:

SIZE					
1	900	mm	Χ	450	mm
2	1200	mm	Х	600	mm
3	1200	mm	Х	600	mm
4	1200	mm	Х	600	mm
5	1200	mm	X	600	mm

SIZE	Α	В	С	D	E	Ē	G	Н	I	J	К	L	М	N	0	Р	٥	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED for State Traffic Engineer

DATE 9/30/09

PLATE NO. G20-24.8 SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

PROJECT NO: 4996-22-71

COUNTY: SHEBOYGAN

SIGN PLATES

PLOT BY : ditjph

PLOT DATE: 30-SEP-2009 09:31

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

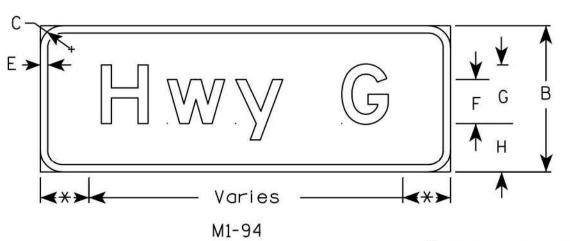
WISDOT/CADDS SHEET 42

HWY: NON-HIGHWAY

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

Background - Green Message - White - Type H Reflective

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



* Minimum dimension is normally height of upper case letter.

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	×	Y	Z	Area sq. ft.
1																											
2	Varies	15	2 1/4		3/4	4 1/2	6	5	4 1/8	8 %	5 1/4	14 %	7 3/4	6	8 1/2			30									Varies
3																											
4	Varies	21	3		1	6	8	7 1/8	4 3/4	9 1/2	5 3/4	17 1/2	9 1/4	7	12			36									Varies
5	Varies	21	3		1	6	8	7 1/8	4 3/4	9 1/2	5 3/4	17 1/2	9 1/4	7	12			36									Varies

COUNTY: SHEBOYGAN

HWY: NON-HIGHWAY

STANDARD SIGN M1-94

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 12/16/10

SHEET NO: 93

FILE NAME : C:\Users\PROJECTS\tr_stdplote\M194.DGN

PROJECT NO: 4996-22-71

PLOT DATE : 16-DEC-2010 09:40

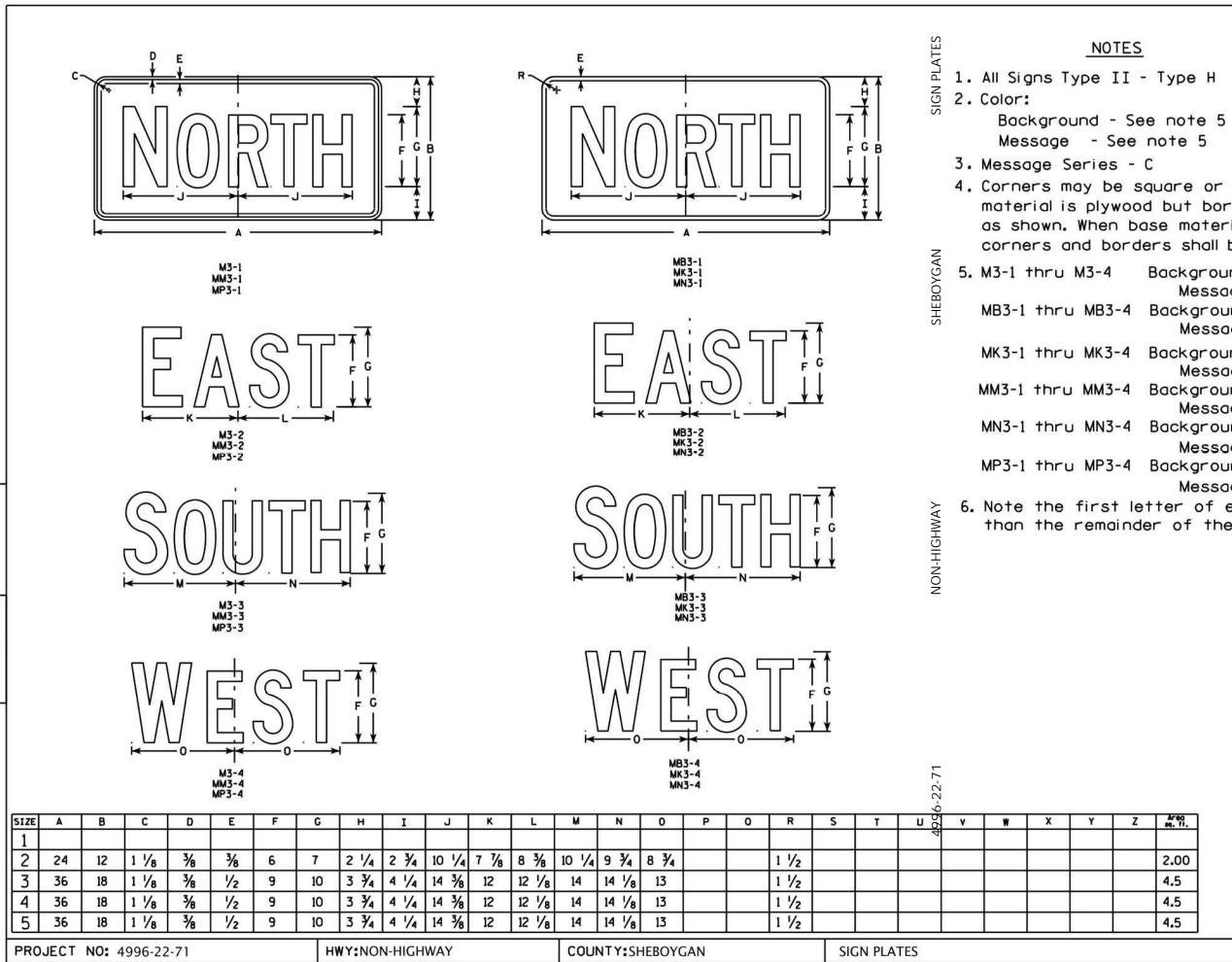
PLOT BY : dotsja

PLOT NAME :

SIGN PLATES

PLOT SCALE : 9.832423:1.000000

9.832423:1.000000 WISDOT/CADDS SHEET 42



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.

Background - White

Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

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

> STANDARD SIGNS M3-1 thur M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplote\M31.DGN

PLOT DATE : 15-0CT-2015 12:16

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

PLOT SCALE : 18.607113:1.000000



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

Background - Orange Message - Black

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

	♠ G	
	F - *	;
M4-8	G ▼	<u> </u>

HWY: NON-HIGHWAY

Ε F G S D I 0 1 1/8 3/8 3/8 10 10 1/4 24 2.0 3 36 3/8 4 1/2 14 5/8 14 1/2 4.5 1 1/8 1/2 4

COUNTY: SHEBOYGAN

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 11/10/10

HEET NO: 95

PROJECT NO: 4996-22-71

PLOT NAME :

SIGN PLATES

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

Background - Orange Message - Black

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

 $D \rightarrow$ Н M4-8A

HWY: NON-HIGHWAY

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	×	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																								2			
5																											

COUNTY: SHEBOYGAN

WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

M4-8A

APPROVED Matther

For State Traffic Engineer PLATE NO. M4-8A.2 DATE 3/9/11

SHEET NO:

PROJECT NO: 4996-22-71 FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN

PLOT DATE: 09-MAR-2011 10:29

PLOT BY : mscj9h

SIGN PLATES

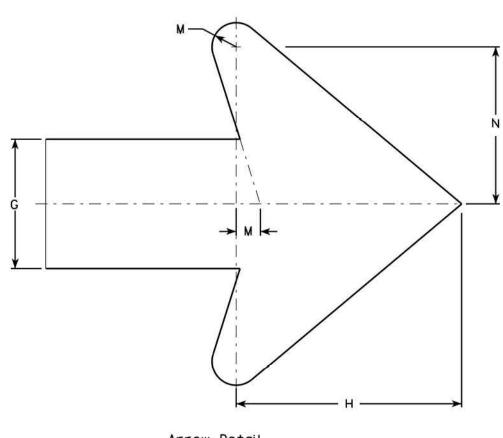
PLOT NAME :

PLOT SCALE: 3.972696:1.000000

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

Background - Orange Message - Black

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



Arrow Detail

PLOT NAME :

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

COUNTY: SHEBOYGAN

M4-9R

HWY: NON-HIGHWAY

M4-9 R & L

STANDARD SIGN

WISCONSIN DEPT OF TRANSPORTATION

APPROVED /// /// // //

For State Traffic Engineer

DATE 3/9/11

SHEET NO: 97

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M49R.DGN

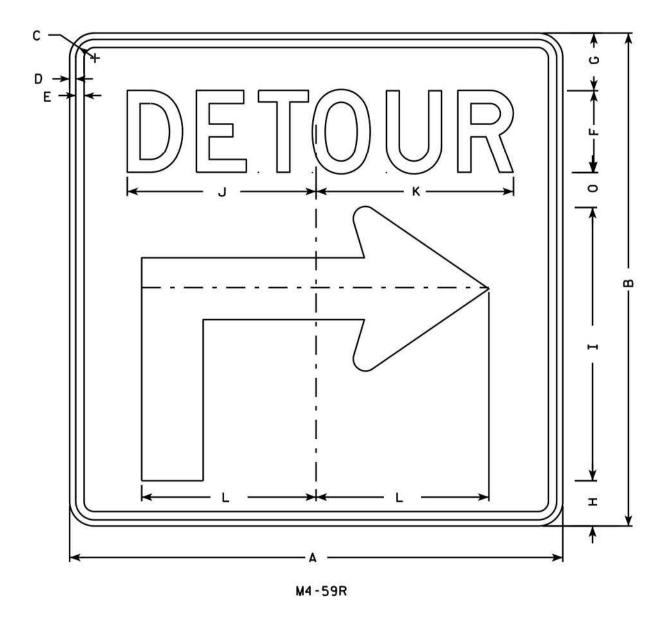
PROJECT NO: 4996-22-71

PLOT DATE: 09-MAR-2011 11:17

PLOT BY: mscj9h

SIGN PLATES

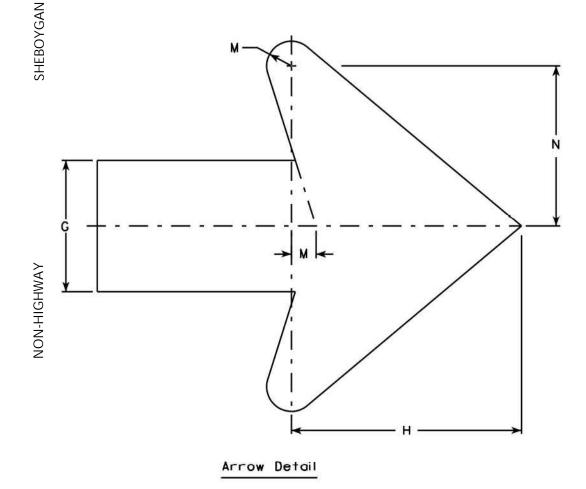
PLOT SCALE: 5.959043:1.000000



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

Background - Orange Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown when base material is metal.
- 5. M4-59L is the same as M4-59R except the arrow is reversed.



S T 6.25 6.25 6.25

STANDARD SIGN M4-59 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

SHEET NO:

DATE 11/10/15

PLATE NO. M4-59.1

PROJECT NO: 4996-22-71

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\M459.DCN

1 3/8

1 3/8

С

D

3/8

3/8

E

1/2

5/8

3 1/2 2 3/4 16 5/8 11 1/2

3 1/2 2 3/4 16 5/8 11 1/2

HWY: NON-HIGHWAY

5 % 4 % 26 % 20 % 20 1/2

5 % 4 % 26 % 20 % 20 1/2

SIZE

30

30

48

30

30

48

48

COUNTY: SHEBOYGAN S
PLOT DATE: 10-NOV-2015 17:46

4 1/8 2 1/8

4 1/8 2 1/8

1 1/8 6 1/8 3 3/8

1 1/8 6 7/8 3 3/8

3/4

3/4

10 1/2

10 1/2

17

17

12

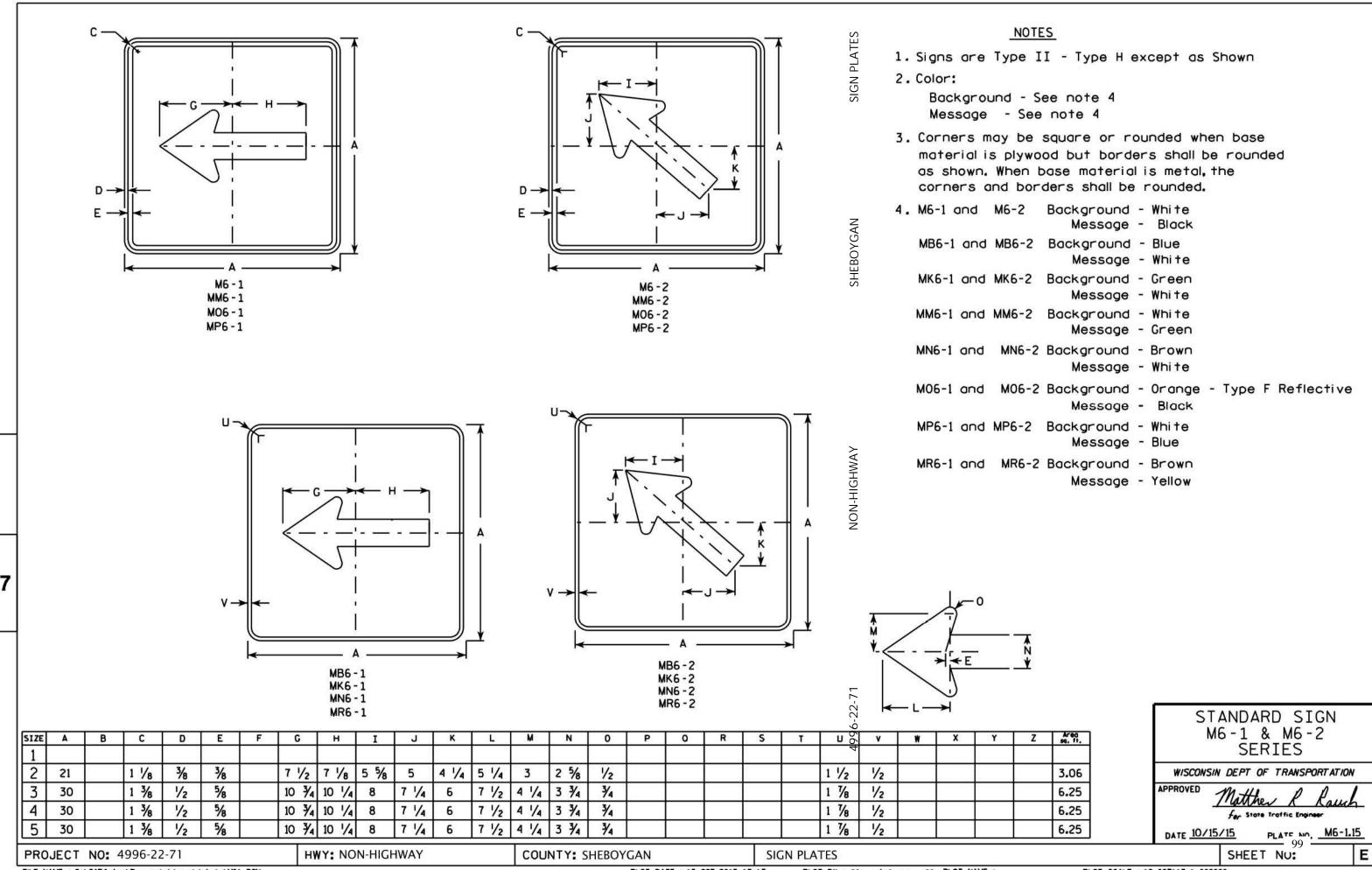
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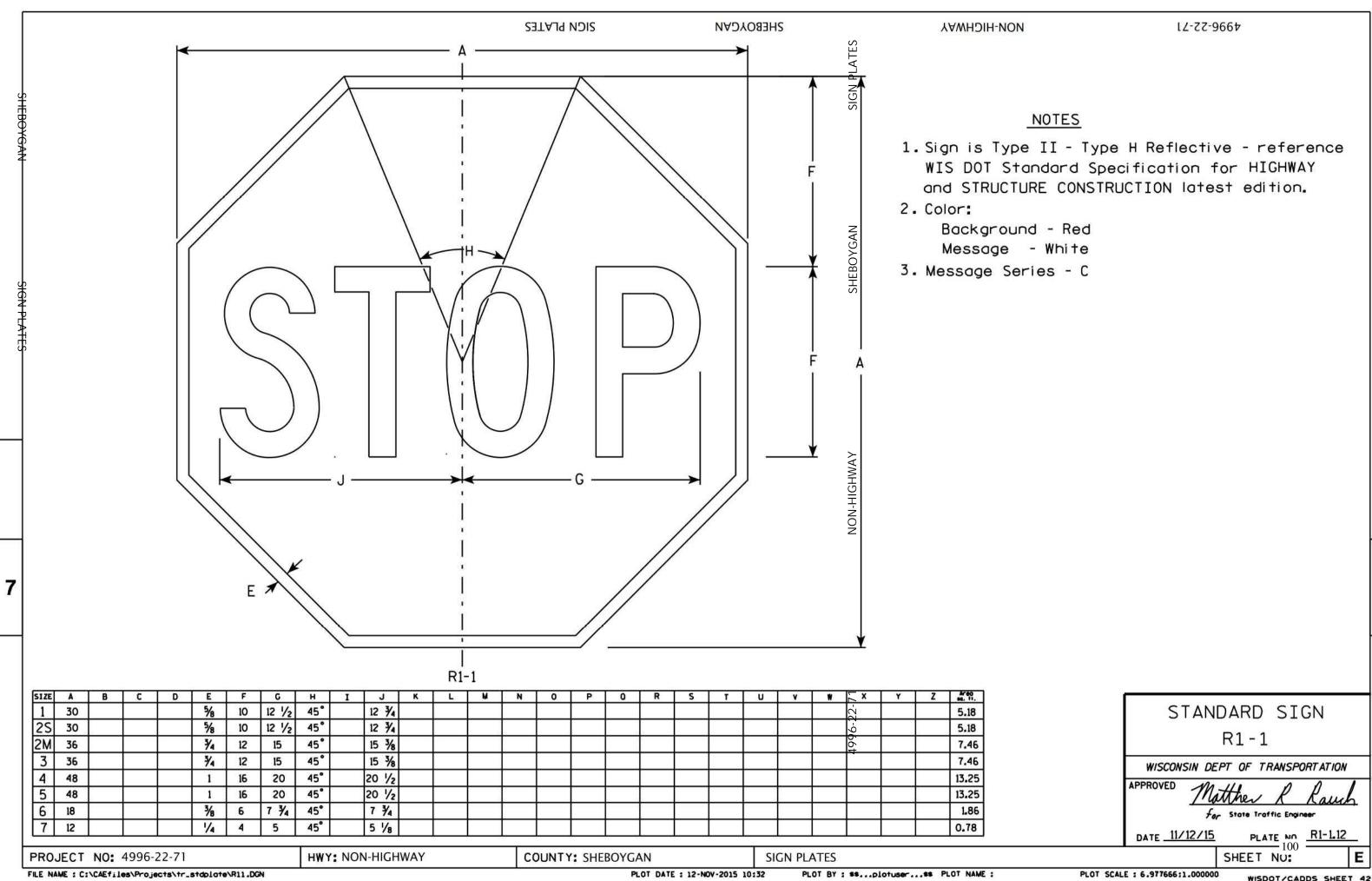
PLOT BY : \$\$...plotuser...\$\$ PLOT NAME :

SIGN PLATES

PLOT SCALE : 9.303557:1.000000

16.0

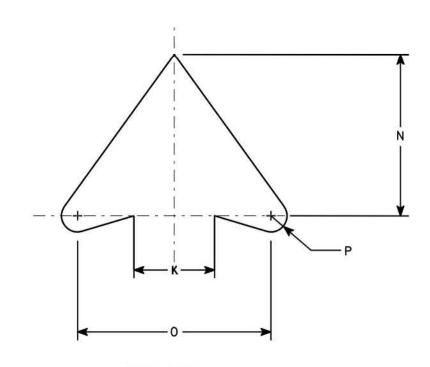




- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

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

24	1 1/-	7/	7277277									2		S 50		R	 30		- "	 	-	Area sq. ft
C 24	1 1/8	%	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12							4.0
S 24	1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12							4.0
M 36	1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18							9.0
3 36	1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18							9.0
4 36	1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18							9.0
5 48	2 1/4	₹4	1	21	8	15	4	3	5	45°	17	10	12	1	24							16.0

R3-1

STANDARD SIGN R3-1

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

For State Traffic Engineer

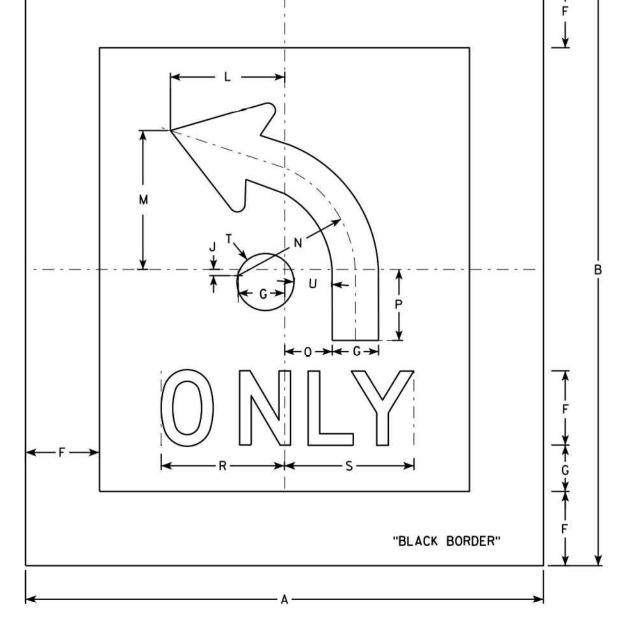
DATE 12/08/10

SIGN PLATES PLOT NAME :

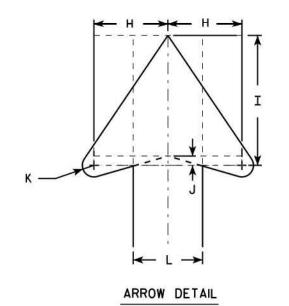
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
- 5. The 6" border is non-reflective black.



R3-5X



SIZE 1	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	v	W	X	Y	Z	Area sq. ft.
25	42	48				6	3 3/4	4	7	1/2	5/8	9 1/4	11 1/4	9 1/2	3 1/8	5 3/4		10	10 1/2	4 1/2	3						14.0
2S 2M	42	48				6	3 3/4	4	7	1/2	5/8	9 1/4	11 1/4	9 1/2	3 1/8	5 3/4		10	10 1/2	4 1/2	3						14.0
3																				4 3							
5						Ē i .							:		3					9 9				12.			

COUNTY: SHEBOYGAN

STANDARD SIGN R3-5X

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 2/05/15 PLA1102 R3-5X.3

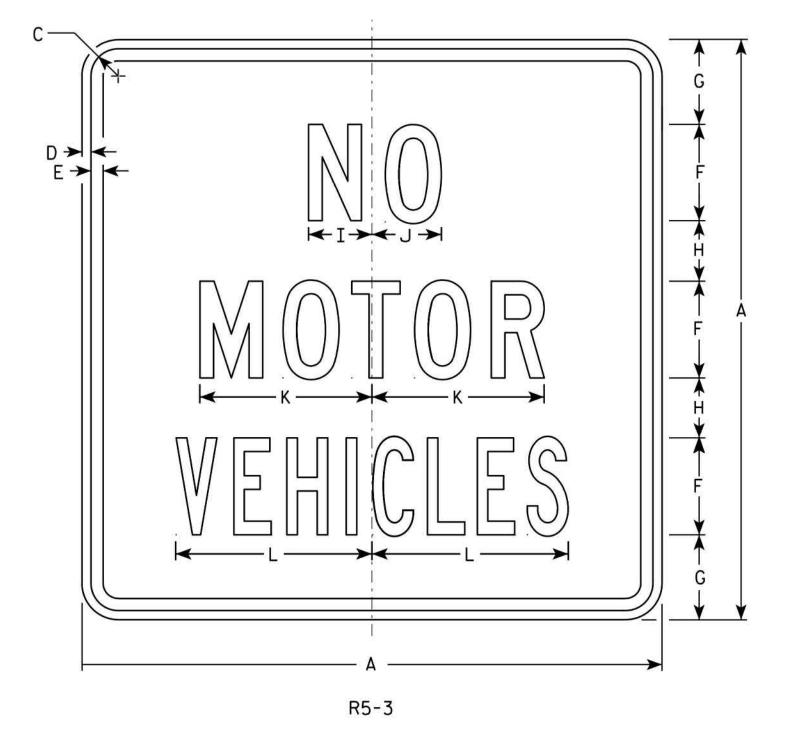
SHEET NO:

PROJECT NO: 4996-22-71

HWY: NON-HIGHWAY

PLOT NAME :

SIGN PLATES



- 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.

SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 %	2 1/8	7 1/8	8 1/8															4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 1/8	2 1/8	7 1/8	8 1/8															4.0
3																											
4																											
5																											
			1		-				V						10		ALC:	1	1								

STANDARD SIGN R5-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 3/29/2011

PLATE NO. R5-3.2

PROJECT NO: 4996-22-71

FILE NAME: C:\Users\PROJECTS\+r_s+dpla+e\R53.DGN

COUNTY: SHEBOYGAN

PLOT DATE: 29-MAR-2011 13:25

HWY: NON-HIGHWAY

PLOT BY: mscsja

SIGN PLATES

PLOT NAME :

PLOT SCALE: 3.972696:1.000000

D >

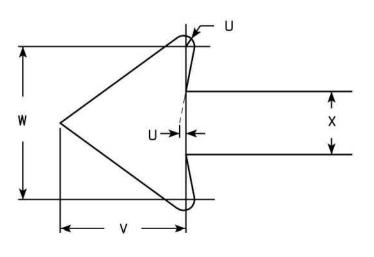
R7-52

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. R7-52D (double arrow) R7-52L (left arrow) R7-52R (right arrow)



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 1/8	1 1/2	1 /8	7/8	2	2 1/2	2	2	4 1/8	4 1/8	5 1/8	5	3 1/8	3 %	1/8	1 1/2	1 3/4	3/4			1.5
25	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 %	7 1/8	7	6 3/8	6 1/4	3 1/8	5 %	1/4	2 1/4	2 %	1 1/8			3.0
2M	24	30	1 1/8	3∕8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 %	7 %	4 3/4	7 3/4	1/4	3	3 1/2	11/2			5.0
3	24	30	1 1/8	3∕8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 %	7 %	4 3/4	7 3/4	1/4	3	3 1/2	11/2			5.0
4																											
5																											

STANDARD SIGN R7-52

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED Matthe R Racel

For State Traffic Engineer

DATE 3/31/2011 F

2011 PLATE NO. R7-52.6

PROJECT NO: 4996-22-71

HWY: NON-HIGHWAY

COUNTY: SHEBOYGAN

PLOT DATE: 31-MAR-2011 13:07

SIGN PLATES

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 3.476110:1.000000

2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

C		T
	G F ↓ H F ↓ G	↑
R9-9		

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8														,			2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4								4									3.75
4																											
5																											

COUNTY: SHEBOYGAN

HWY: NON-HIGHWAY

STANDARD SIGN R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVE

Matthew & Kaul

for State Traffic Engineer

DATE 8/11/16 PLA: 105 R9-9.6

SHEET NO:

Ε

FILE NAME . C.\CAFFiles\Projects\tr stdnlote\R99 DCN

PROJECT NO: 4996-22-71

PLOT DATE + 11-410-2016 11-33

PINT RY . \$\$ DIOTISE \$\$ PINT NAMF :

SIGN PLATES

PLOT SCALE . 2 918761-1 000000

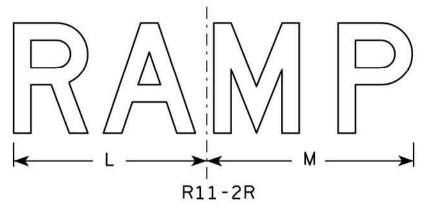
HWY: NON-HIGHWAY

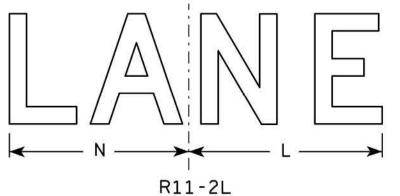
NOTES

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

Background - White Message - Black

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





PLOT NAME :

																									5 5 10 10 10 10 10 10 10 10 10 10 10 10 10		
SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	M	N	0	Р	0	R	S	T	U	٧	w	X	Y	Z	Arec sq. f
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5%	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

COUNTY: SHEBOYGAN

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

Matthew & Rame For State Traffic Engineer
PLATE NO. R11-2.10 DATE 4/1/11

SHEET NO:

PROJECT NO: 4996-22-71

SIGN PLATES

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

2. Color:

Background - White Message - Black

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

R11-4

SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areo sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7∕8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 For Stote

SHEET NO:

HWY: NON-HIGHWAY

COUNTY: SHEBOYGAN PLOT DATE: 01-APR-2011 14:11

SIGN PLATES

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

PROJECT NO: 4996-22-71

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3∕8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 1/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
2M	36		1 1/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
3	36		1 1/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
4	48		2 1/4	₹4	1		6	7	15 1/2	10	4 1/8	1 1/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	₹4	1		6	7	15 1/2	10	4 1/8	1 1/8	8	1	14	19		1 1/4	6 1/2								16.0

COUNTY: SHEBOYGAN

HWY: NON-HIGHWAY

STANDARD SIGN W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer DATE 5/15/12 PLATE NO. W1-1.11

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W11.DGN

PROJECT NO: 4996-22-71

PLOT DATE: 15-MAY-2012 13:47

PLOT BY: mscsja

PLOT NAME :

SIGN PLATES

PLOT SCALE: 7.939035:1.000000

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

Background - Yellow Message - Black

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

c —		_
D → ← E →		Ē- Ē-
	M ————————————————————————————————————	
	W1-6	

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

STANDARD SIGN W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer DATE 6/7/10 PLATE NO. W1-6.8

SHEET NO:

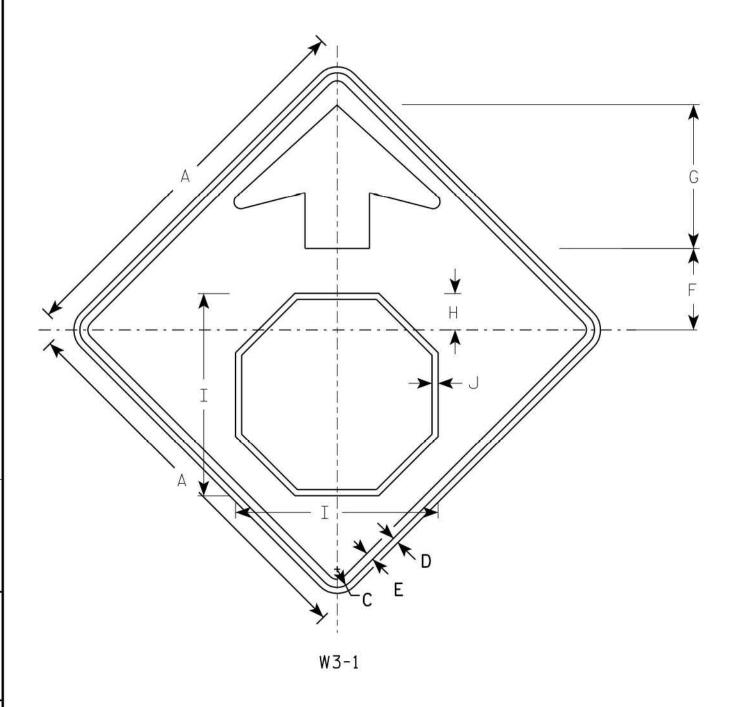
HWY: NON-HIGHWAY

PLOT DATE: 07-JUN-2010 10:37

SIGN PLATES

PROJECT NO: 4996-22-71

COUNTY: SHEBOYGAN **NOTES** 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY D> and STRUCTURE CONSTRUCTION latest edition. 2. Color: Background - Yellow Message - Black 3. Corners may be square or rounded when base material is plywood but borders shall be rounded SIGN PLATES as shown. When base material is metal, the corners and borders shall be rounded. W1-8 С L 0 X STANDARD SIGN 1 1/2 1/2 12 1.5 18 9 6 W1 - 825 1 1/2 3/4 18 12 3.0 24 9 3/4 24 1 1/2 18 12 9 3.0 WISCONSIN DEPT OF TRANSPORTATION 3 APPROVED 24 30 1 1/2 15 12 5.0 1 1/8 11/4 4 30 36 18 15 7.5 for State Traffic Engineer 5 2 1/4 1 1/2 36 24 18 12.0 DATE 6/7/10 PLATE NO. W1-8.6 SHEET NO: HIGHWAY: NON-HIGHWAY **COUNTY: SHEBOYGAN** PROJECT NO: 4996-22-71 SIGN PLATES



HIGHWAY: NON-HIGHWAY

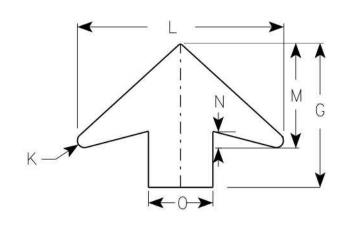
NOTES

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

Background - YELLOW

Arrow & Border - BLACK

Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

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

COUNTY: SHEBOYGAN

STANDARD SIGN W3-1

WISCONSIN DEPT OF TRANSPORTATION

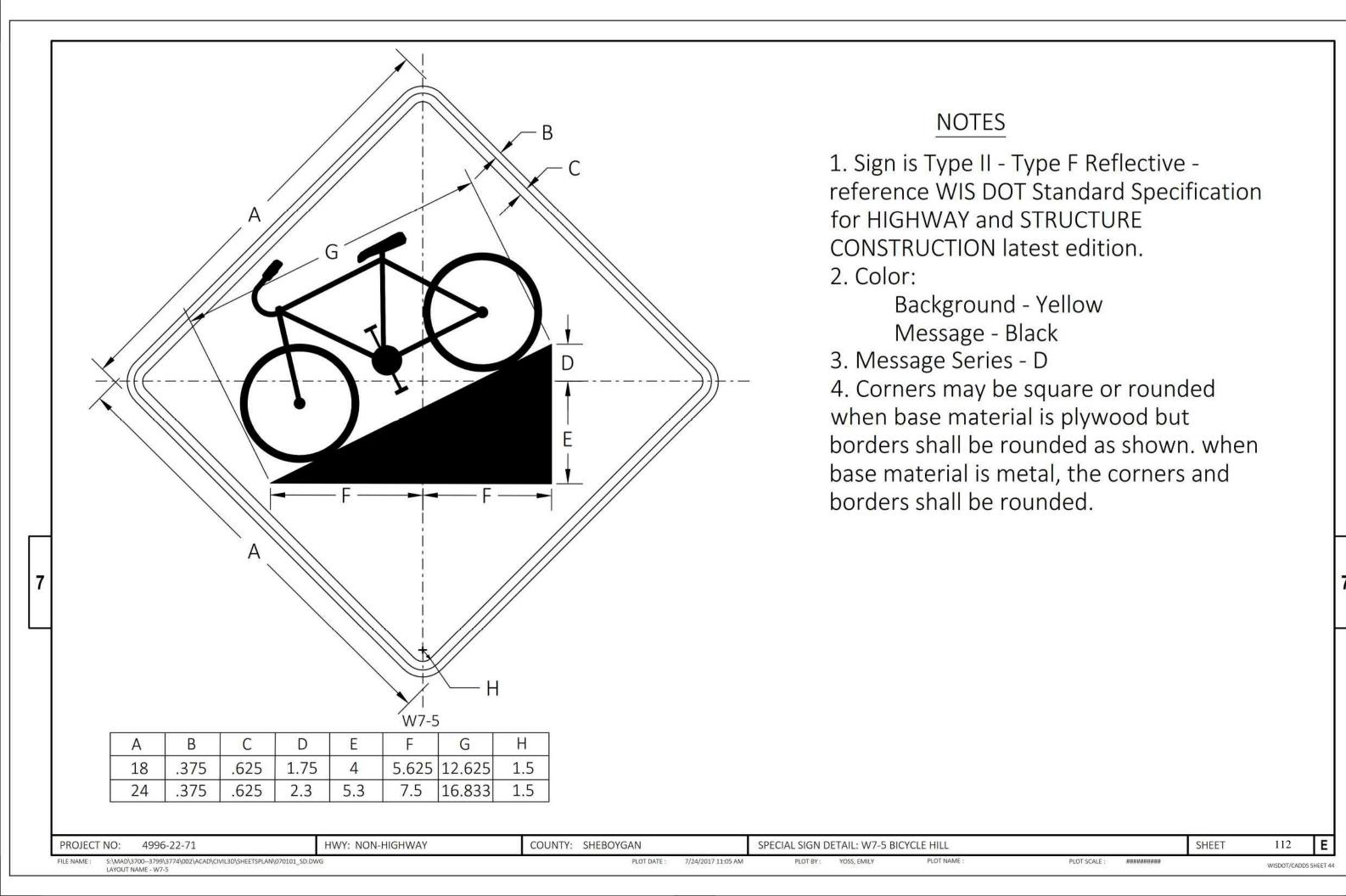
PPROVED Matthe

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.

SHEET NO:

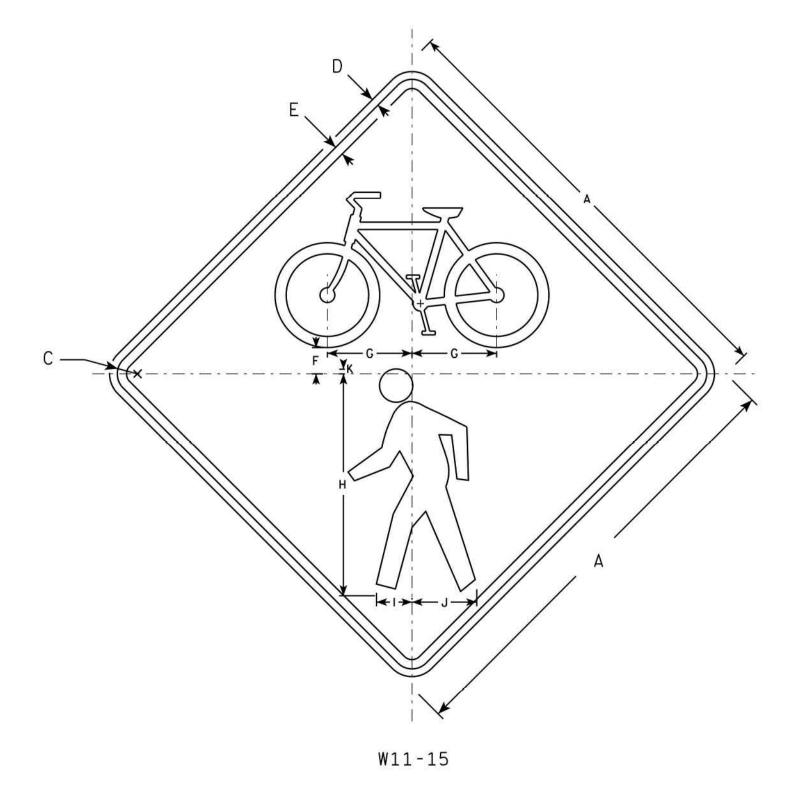
PROJECT NO: 4996-22-71



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

Background - Yellow Message - Black

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



HWY:NON-HIGHWAY

SIZE A Z 1/2 13/8 4 5/8 12 1 1/8 3 1/2 11/8 1/4 24 4.0 25 1 3/8 1/2 5/8 13/4 5 3/4 15 2 3/8 4 3/8 30 6.25 2M 3/4 2 1/8 6 1/8 18 2 1/8 5 1/4 1 1/8 9.0 36 3/₄ 2 1/₈ 6 7/₈ 2 1/8 5 1/4 3 1 5/8 18 16.0 36 2 1/4 3/4 2 1/8 9 1/8 24 3 1/8 7 4 48 16.0

COUNTY: SHEBOYGAN

STANDARD SIGN W11-15

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Ray

3/14 PLATE 113 W11-15.4

SHEET NO:

DATE 2/13/14

PROJECT NO: 4996-22-71

PLOT NAME :

SIGN PLATES

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

Background - Yellow Message - Black

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

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	w	X	Y	Z	Area sq. ft
1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3∕8	1/2	10	4	4	2 3/4	3 1/4	6 %																4.00
4	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %													13			9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

SHEET NO: 114

PLOT NAME :

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W16-7R is the same as W16-L except the arrow is reversed along the vertical centerline.

E—	
	↑ B
	\forall
→ H → A	
W16-7L	

HWY: NON-HIGHWAY

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

COUNTY: SHEBOYGAN

STANDARD SIGN W16-7

WISCONSIN DEPT OF TRANSPORTATION

PPROVED Matther & Ra

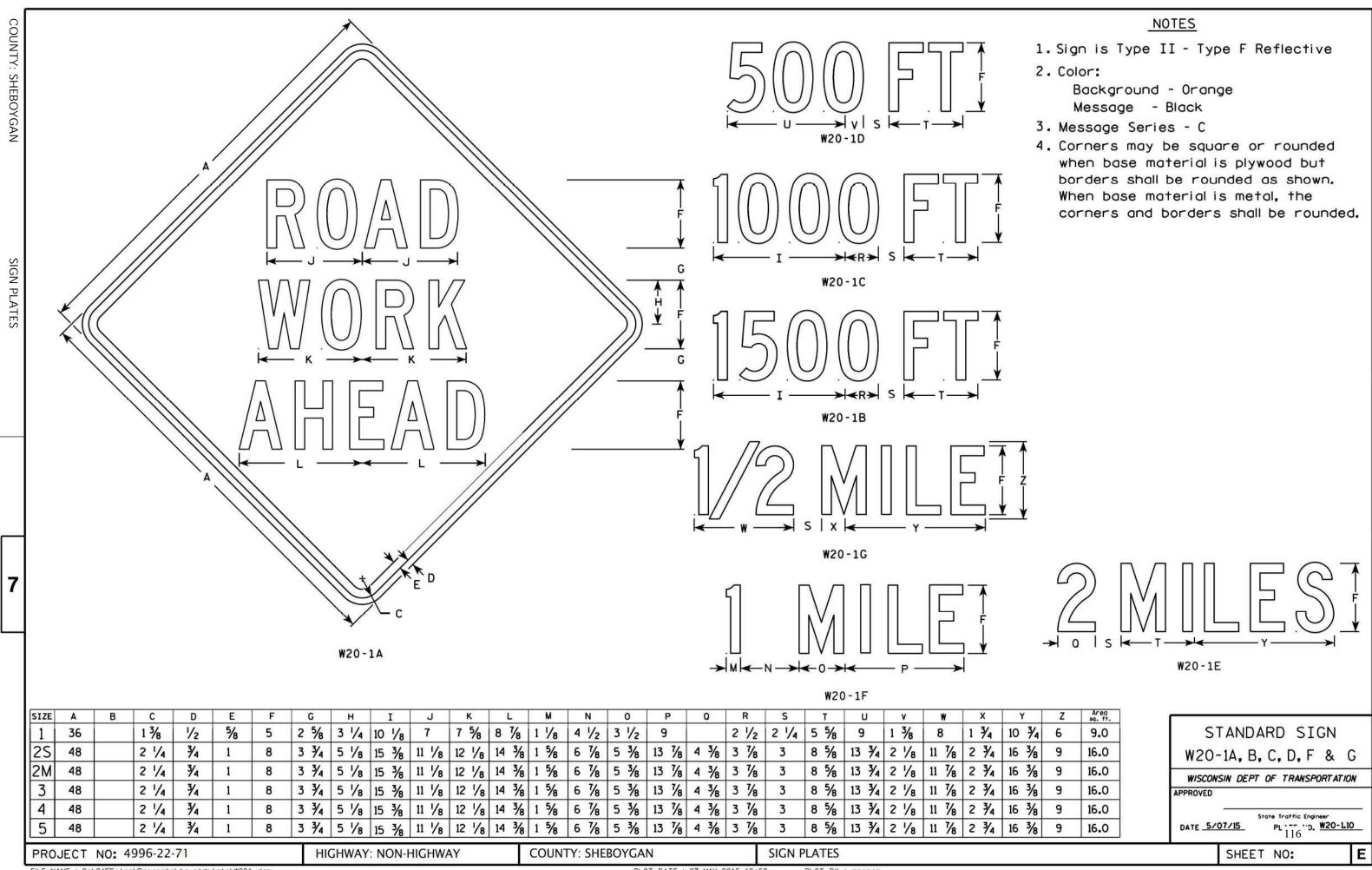
DATE 11/02/10 PLA

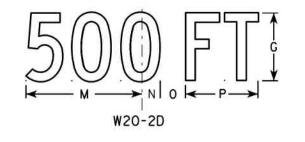
SHEET NO: 115

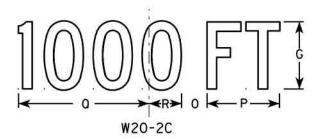
PROJECT NO: 4996-22-71

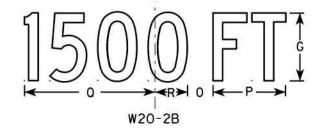
PLOT NAME :

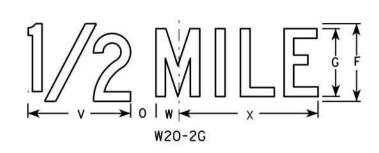
SIGN PLATES

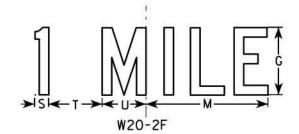












- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

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

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	×	Y	Z	Area sq. ft.
1	36		1 1/8	5/8	₹4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
25	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
2M	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
3	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
4	48		2 1/4	₹4	1.	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
5	48		2 1/4	₹4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 %	2 3/8	14 3/8			16.0

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

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11

PROJECT NO: 4996-22-71

HWY: NON-HIGHWAY

W20-2A

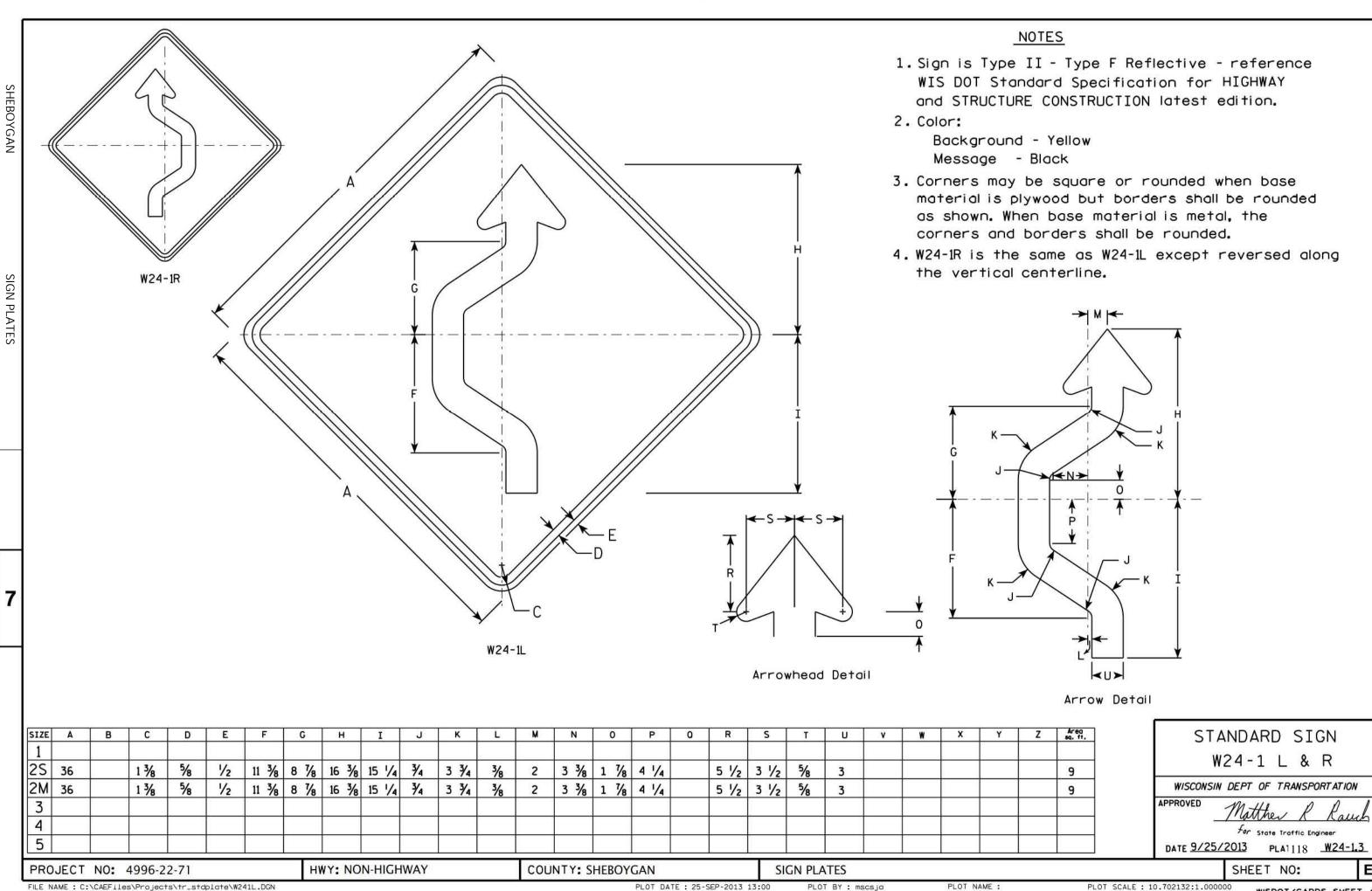
COUNTY: SHEBOYGAN

SIGN PLATES

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

SHEET NO:



					SILLDOIC	JAN DIKE P	<u> </u>				
			EX	CAVATION		1		EMBAN	KMENT		
CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	END AREA CUT (SF)	VOLUME CUT (CY)	CUMM VOLUME CUT (CY)	END AREA FILL (SF)	VOLUME FILL (CY)	FILL FACTOR	EXPANDED VOLUME FILL (CY)	CUMM VOLUME FILL (CY)	EXCESS/ (SHORTAGE) CUMM VOLUME (CY)
0010	19+00		1			3					
	19+50	50	3	4	4	4	7	1.2	8	8	(4)
	20+00	50	8	10	14	0	4	1.2	5	13	1
		50		14	27		1	1.2	2	15	13
	20+50	50	7	14	41	1	2	1.2	2	16	24
-	21+00	50	8	14	55	1	1	1.2	1	17	38
	21+50	50	8	15	70	0	0	1.2	1	18	52
	22+00	50	8	15	85	0	1	1.2	1	19	67
	22+50	50	9	17	103	0	3	1.2	3	22	81
	23+00	50	10	18	120	2	7	1.2	8	30	90
-	23+50	50	9	22	142	5	5	1.2	6	36	107
	24+00	50	14	24	167	0	0	1.2	0	36	131
	24+50	50	12	18	184	0	1	1.2	1	36	148
	25+00		7	12	196	1	2	1.2	2		
	25+50	50	6			1				39	158
-	26+00	50	7	12	209	1	2	1.2	2	41	167
	26+50	50	5	12	220	4	4	1.2	5	46	174
	27+00	50	3	7	228	3	7	1.2	8	55	173
	27+50	50	5	7	235	0	3	1.2	4	58	176
	28+00	50	8	12	246	1	0	1.2	1	59	187
	28+50	50	7	14	260	3	4	1.2	4	63	197
-	29+00	50	13	19	279	0	3	1.2	4	67	212
	29+50	50	14	25	304	0	0	1.2	0	67	236
	30+00	50	9	21	325		4	1.2	5	72	253
		50		16	341	4	5	1.2	6	78	263
	30+50	50	8	16	357	1	2	1.2	3	81	276
-	31+00	50	10	23	381	1	1	1.2	1	82	299
	31+50	50	16	33	414	0	0	1.2	0	82	332
	32+00	50	20	30	444	0	1	1.2	1	83	361
	32+50	50	12	41	485	1	1	1.2	1	84	402
	33+00	50	33	51	536	0	0	1.2	0	84	453
-	33+50	50	22	30	566	0	0	1.2	0	84	482
	34+00	50	10	17	584	0	1	1.2	1	85	498
	34+50	50	8	19	603	1	8	1.2	10	95	508
	35+00		13	25	627	8	13				517
	35+50	50	14			6		1.2	15	110	
	36+00	50	30	41	668	2	7	1.2	8	118	550

SHEBOYGAN BIKE PATH

FILE NAME : S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\SHEETSPLAN\090101_EW.DWG LAYOUT NAME - 090101

4996-22-71

PROJECT NO:

PLOT DATE : 1/31/2018 10:17 AM

PLOT BY: YOSS, EMILY

EARTHWORK

PLOT NAME :

PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

119

Ε

HWY: NON-HIGHWAY

COUNTY: SHEBOYGAN

SHEBOYGAN BIKE PATH

			EX	CAVATION				<u>EMBAN</u>	<u>IKMENT</u>		
											EXCESS/
	REFERENCE		END AREA	VOLUME	CUMM VOLUME	END AREA	VOLUME		EXPANDED	CUMM VOLUME	(SHORTAGE)
	LINE	DISTANCE	CUT	CUT	CUT	FILL	FILL	FILL	VOLUME FILL	FILL	CUMM VOLUME
CATEGORY	STATION	(FT)	(SF)	(CY)	(CY)	(SF)	(CY)	FACTOR	(CY)	(CY)	(CY)
0010		50		62	730		2	1.2	3	121	609
	36+50		36			1					
		50		57	787	_	8	1.2	9	130	657
	37+00		25		020	7		4.2	4.0	420	500
	27.50	50	20	52	839	_	8	1.2	10	139	699
	37+50	50	30	60	898	1	2	1.2	3	142	756
	38+00	50	35	60	898	1	2	1.2	3	142	/56
	36+00	50	33	60	958	1	5	1.2	6	148	810
	38+50] 30	30	00	556	4	,	1.2	O	140	810
_	38130	50	30	54	1,013	7	6	1.2	7	155	858
	39+00		28	•	_,	2	•		·		
		50		60	1,072		4	1.2	5	160	912
	39+50		36		,	2					
		50		65	1,137		3	1.2	3	163	974
	40+00		34			0					
		50		61	1,199		1	1.2	1	164	1,034
	40+50		32			0					
		50		58	1,257		1	1.2	1	165	1,092
_	41+00		31			1					
		50		56	1,313		2	1.2	2	168	1,145
	41+50		29			1					
		50		56	1,369		1	1.2	2	170	1,200
	42+00		32			0					
		50		57	1,426		1	1.2	1	171	1,256
	42+50		30	0.0	4.507	1		4.2		470	4 225
	42.00	50	F.C.	80	1,507		1	1.2	1	172	1,335
	43+00	F0	56	135	1 (41	0	0	1.2	0	172	1 470
	43+50	50	89	135	1,641	0	U	1.2	0	172	1,470
-	45+50	50	09	191	1,832	U	0	1.2	0	172	1,661
	44+00] 30	117	131	1,832	0	U	1.2	U	1/2	1,001
	44.00	50	11,	255	2,087		0	1.2	0	172	1,916
	44+50		158	255	2,007	0	Ü		ŭ	2,2	1,510
		50		315	2,403	_	0	1.2	0	172	2,231
	45+00		182		_,	0	-		-		_,
-	TOTAL				2,403		143			172	2,231

9

PROJECT NO: 4996-22-71 HWY: NON-HIGHWAY COUNTY: SHEBOYGAN EARTHWORK SHEET 120 **E**

FILE NAME: S:\MAD\\3700--3799\\3774\\002\\ACAD\CIVIL3D\\SHEETSPLAN\\090101_EW.DWG PLOT NAME: 9LOT NAME: 9LOT NAME: 9LOT NAME: 9LOT NAME: 49

LAYOUT NAME - 090102

PLOT NAME: 1/31/2018 10:17 AM PLOT BY: YOSS, EMILY PLOT NAME: 9LOT NAME: 1 IN:10 FT HORZ. / 1 IN:

MOENNING ROAD

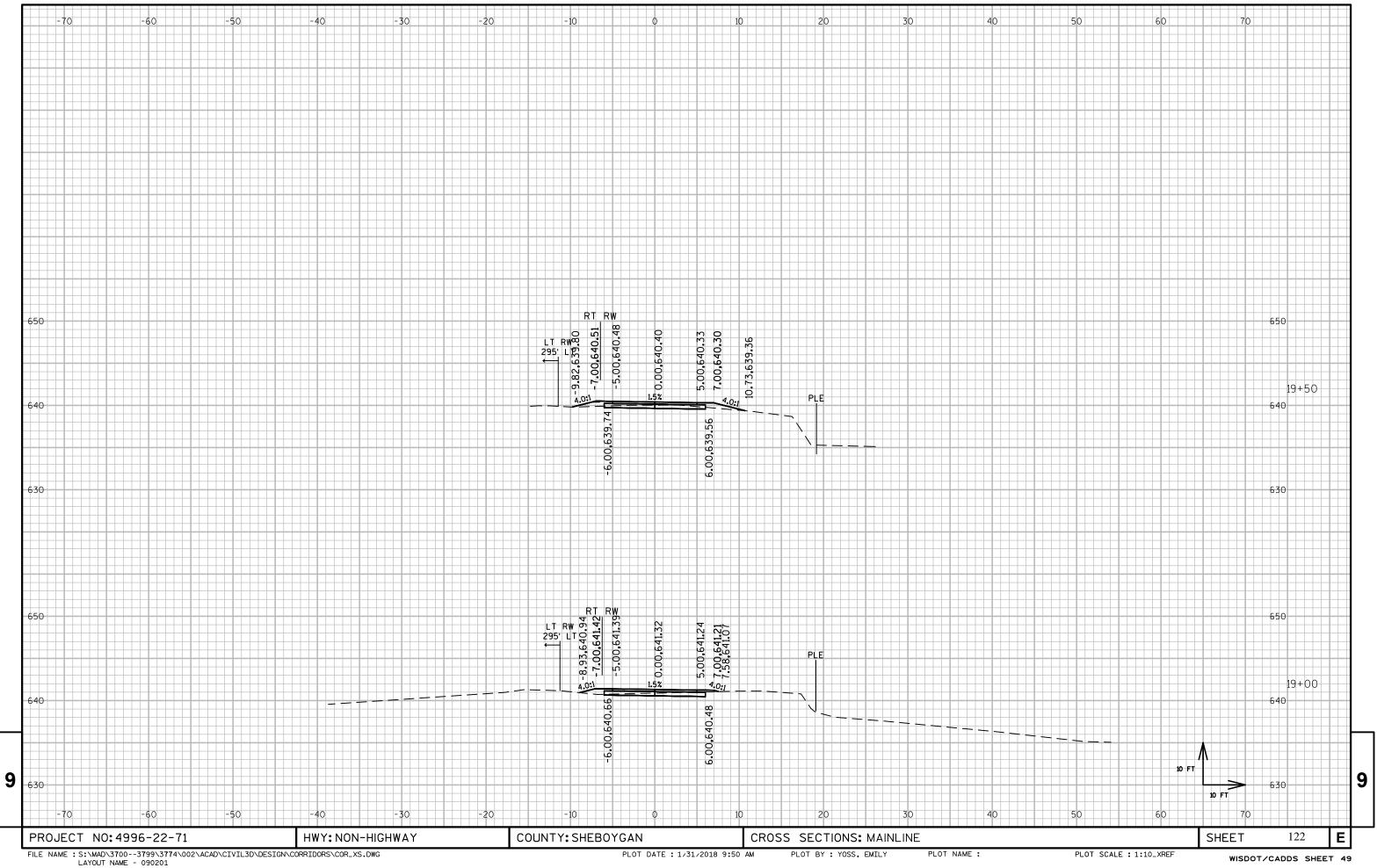
			EXC	CAVATION				<u>EMBAN</u>	IKMENT		EXCESS/
	REFERENCE LINE	DISTANCE	END AREA	VOLUME CUT	CUMM VOLUME CUT	END AREA	VOLUME FILL	FILL	EXPANDED VOLUME FILL	CUMM VOLUME FILL	(SHORTAGE) CUMM VOLUME
CATEGORY	STATION	(FT)	(SF)	(CY)	(CY)	(SF)	(CY)	FACTOR	(CY)	(CY)	(CY)
0010	100+36 M BA, AH		68			1					
		14		41	41		0	1.2	0	0	41
	100+50 M		88			0	_		_	_	
	100.75 14	25	07	81	122		0	1.2	0	0	121
	100+75 M	25	87	74	196	0	0	1.2	0	0	195
	101+00 M	23	73	74	190	0	U	1.2	Ü	U	193
	101.00.11	25	, 3	60	255		1	1.2	1	1	254
	101+25 M		55			1					
		25		47	302		5	1.2	6	7	295
	101+50 M		45			10					
		25		42	344		16	1.2	19	27	317
	101+75 M		45			25					
	102+00 M	25	46	42	386		32	1.2	38	65	321
	102+00 IVI	25	46	46	432	44	40	1.2	48	113	319
	102+25 M	23	53	40	452	42	40	1.2	40	113	319
	102 125 111	25	33	58	490	'-	27	1.2	33	145	345
	102+50 M		72			16					
		25		69	559		9	1.2	10	156	403
	102+75 M		77			2					
		25		81	640		1	1.2	1	157	483
	103+00 M		98		===	0					
	103+25 M	25	110	96	736	1	0	1.2	0	157	579
	103+25 IVI	25	110	134	870	1	0	1.2	0	158	713
	103+50 M	23	180	134	870	0	U	1.2	Ü	156	,13
	200 100 111	25		165	1,035		0	1.2	0	158	877
	103+75 M		176		, , , , , , , , , , , , , , , , , , ,	0					
		25		136	1,171		0	1.2	0	158	1,013
	104+00 M		118			0					
		25		100	1,271		0	1.2	0	158	1,113
	104+25 M		98			0	ā			450	4.40=
	104.50.14	25	0.4	84	1,355	0	0	1.2	0	158	1,197
	104+50 M	25	84	66	1,421	"	3	1.2	4	162	1,260
	104+75 M	23	57	00	1,721	6	J	1.2	7	102	1,200
	201.751.11	25	٥,	42	1,463		8	1.2	10	172	1,291
	105+00 M		33		_,	12					
		10		11	1,474		2	1.2	3	174	1,299
	105+10 M		28			0					
	TOTAL				1,474		145			174	1,299

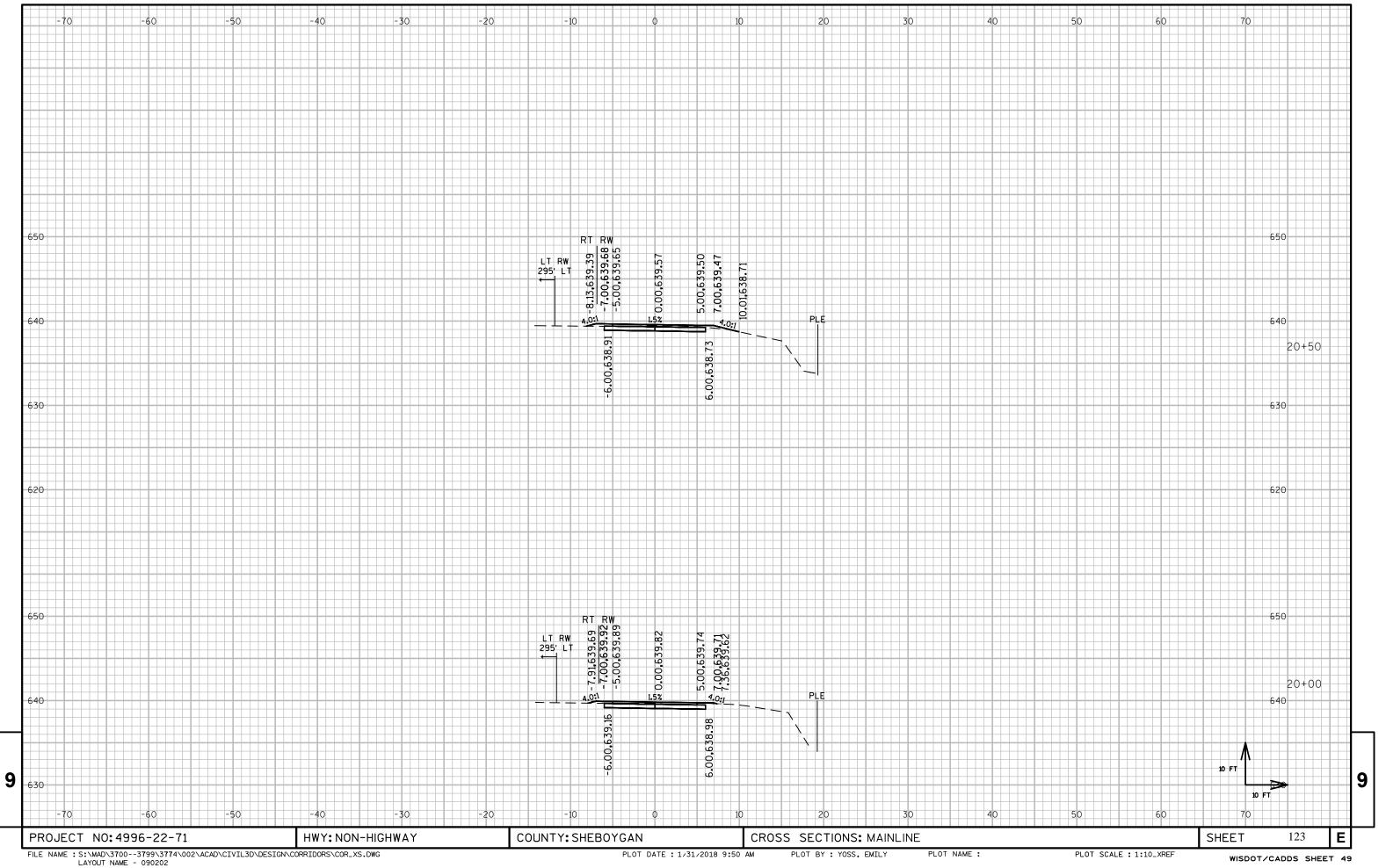
9

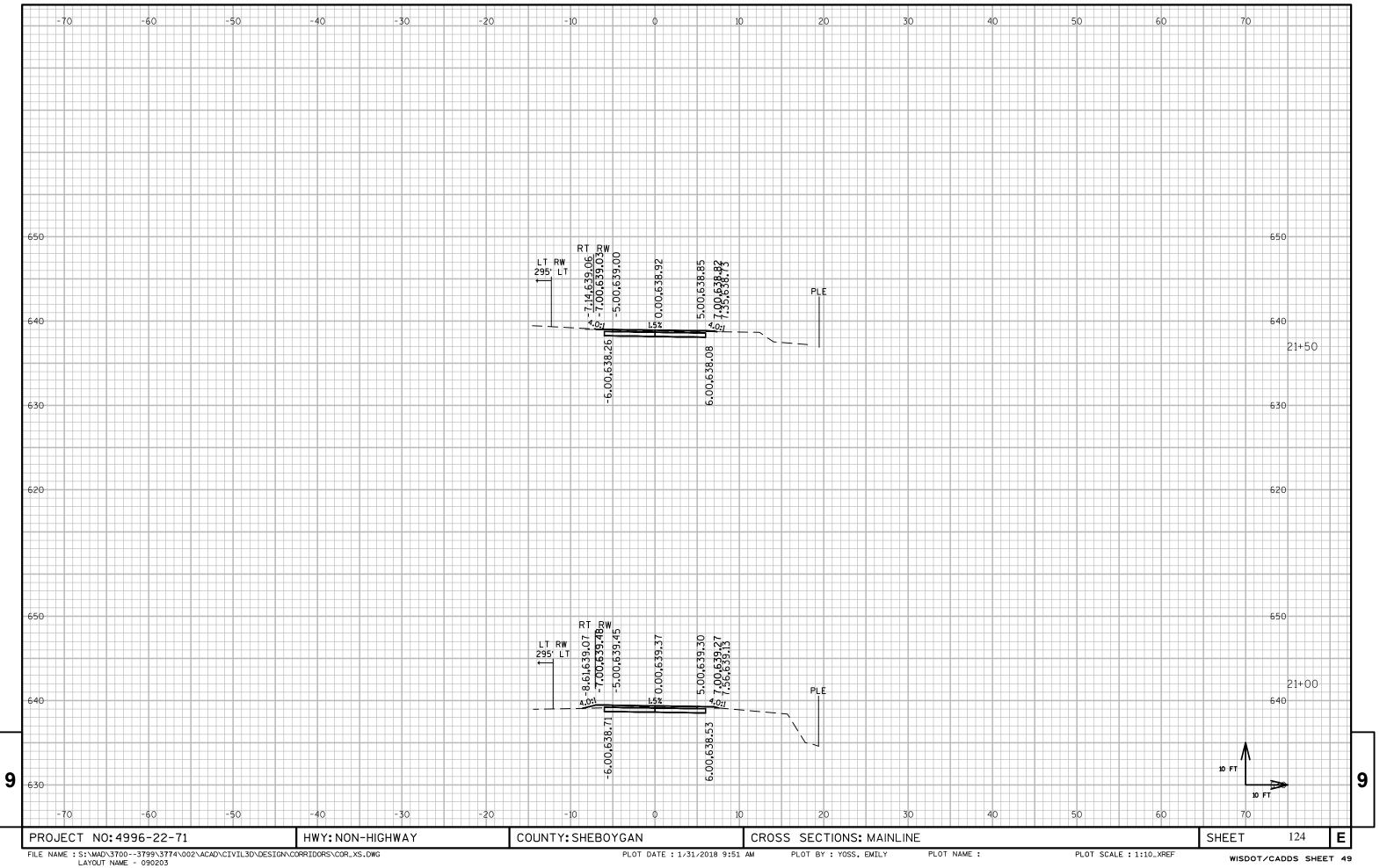
PROJECT NO: 4996-22-71 HWY: NON-HIGHWAY COUNTY: SHEBOYGAN EARTHWORK SHEET 121 **E**

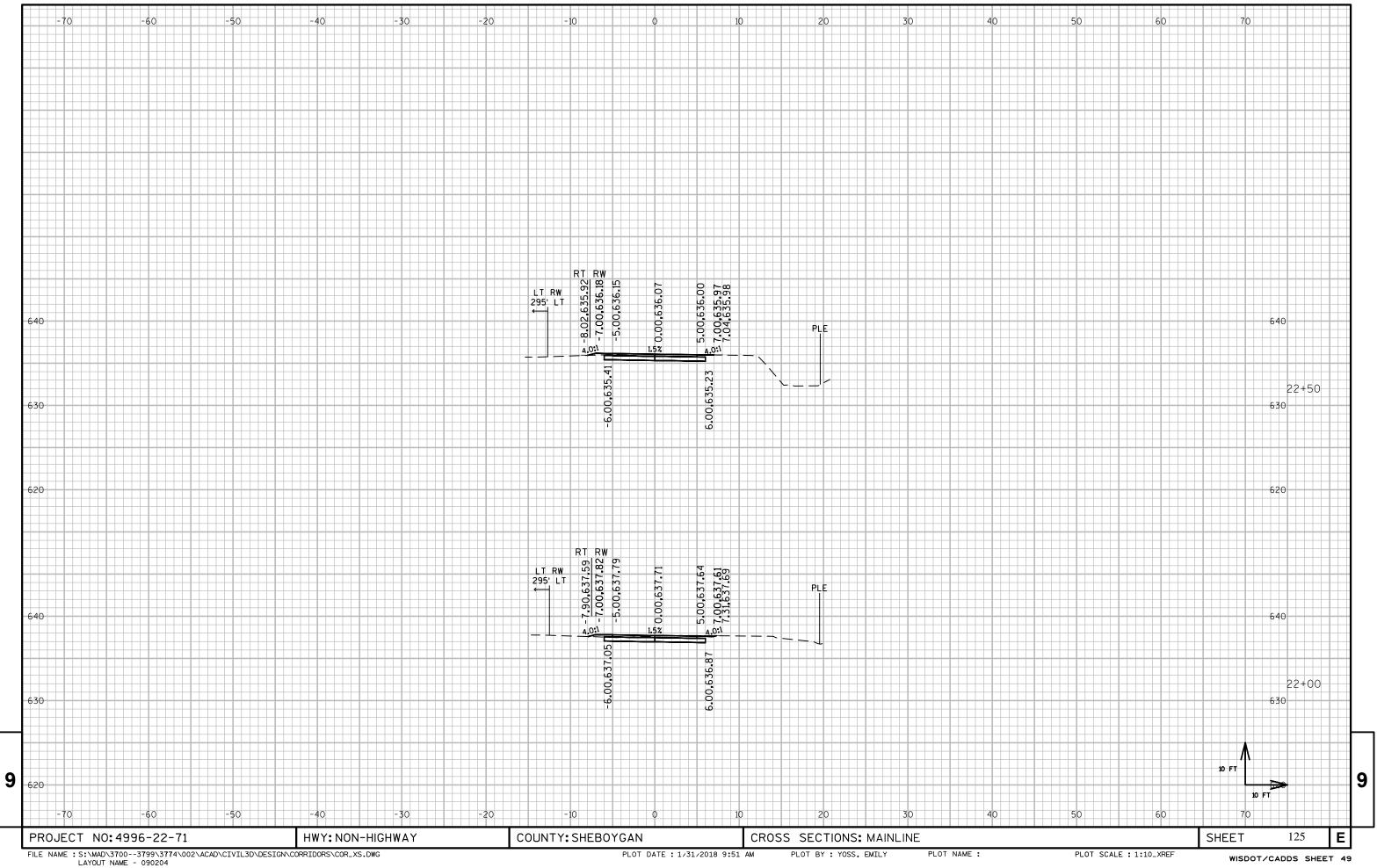
FILE NAME: S:\MAD\3700--3799\3774\002\ACAD\CIVIL3D\SHEETSPLAN\090101_EW.DWG PLOT BY: YOSS, EMILY PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ./1 IN:10 FT VERT.
LAYOUT NAME - 090103

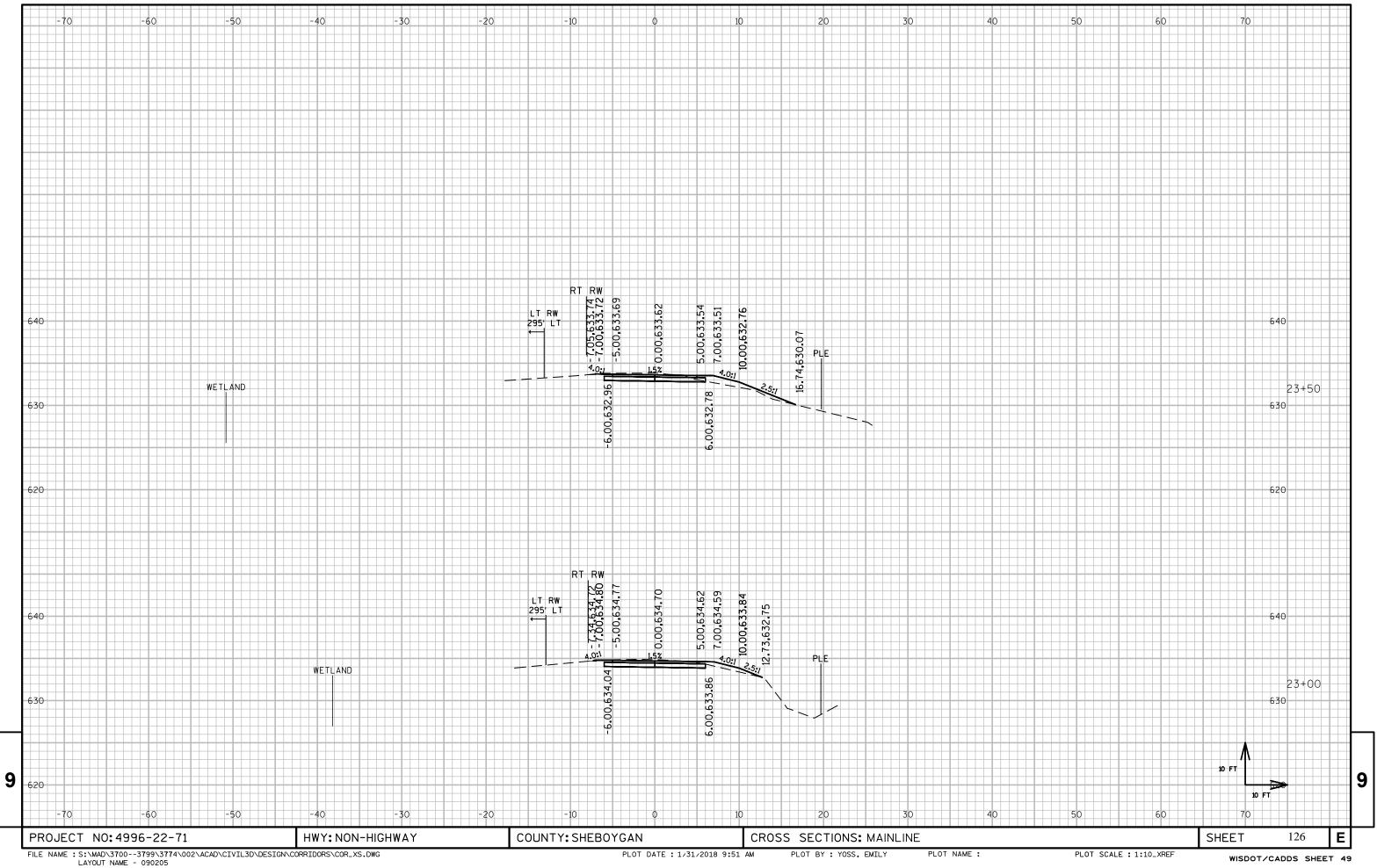
PLOT DATE: 1/31/2018 10:17 AM PLOT BY: YOSS, EMILY PLOT NAME: PLOT NAME: 1 IN:10 FT HORZ./1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

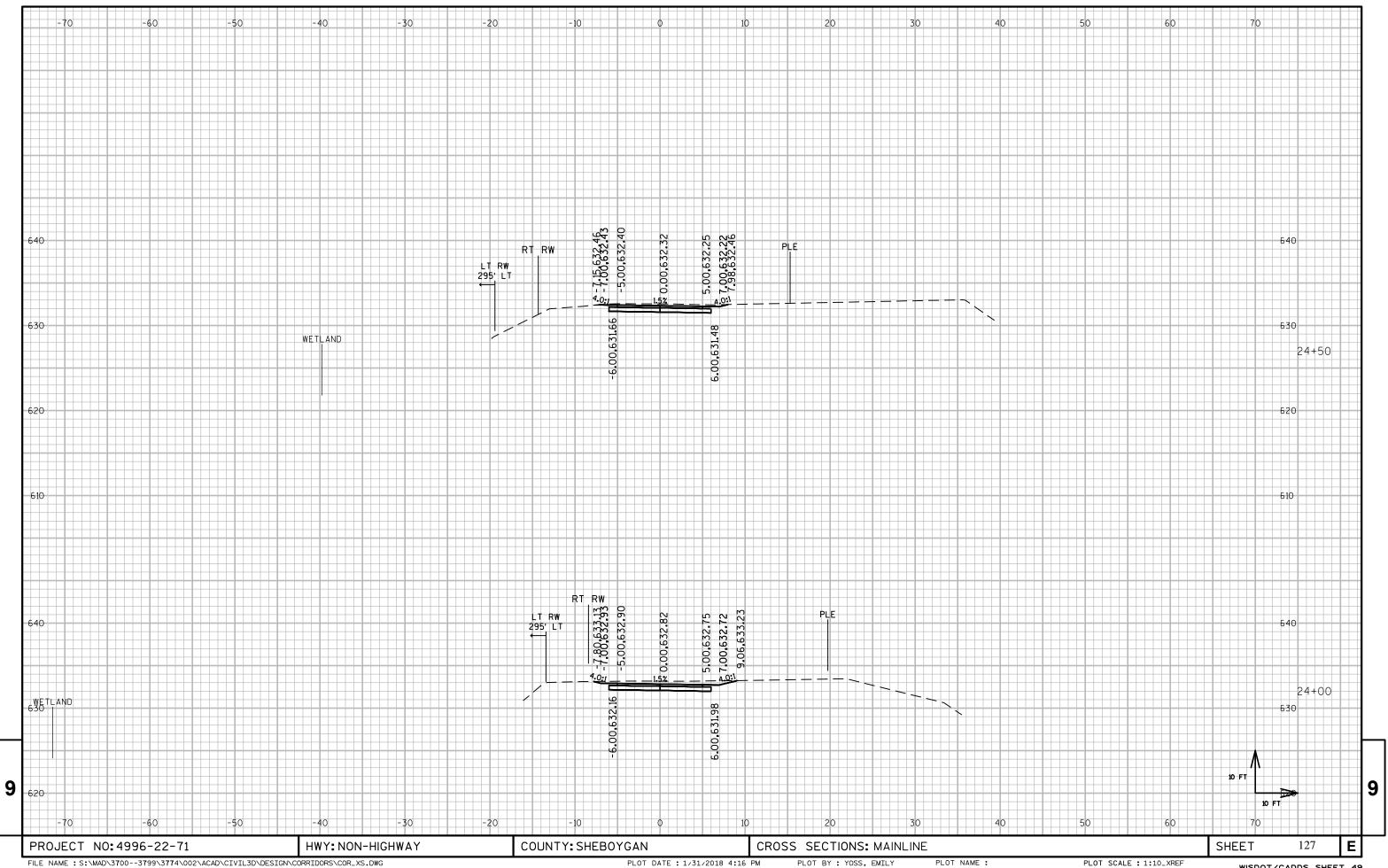


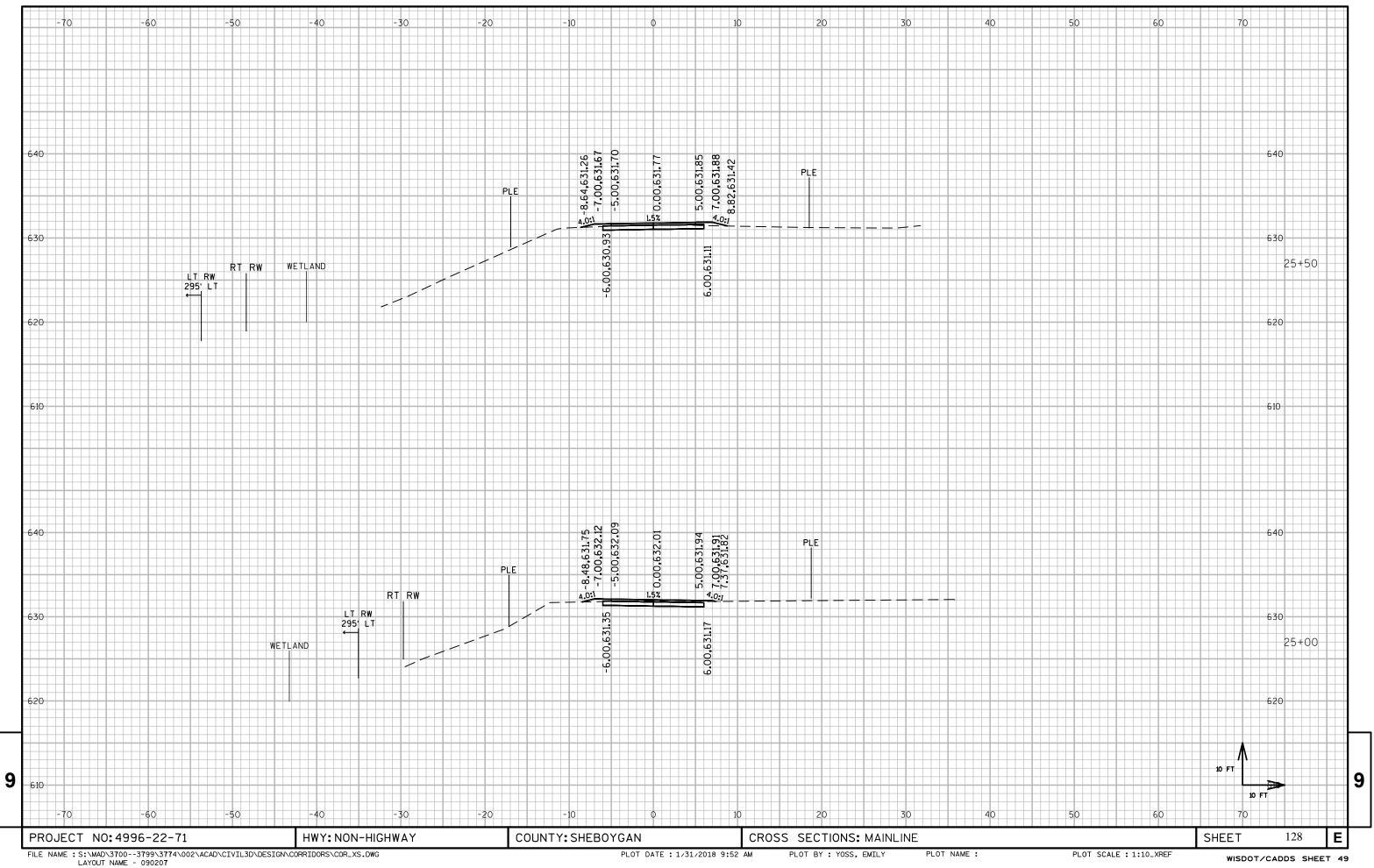


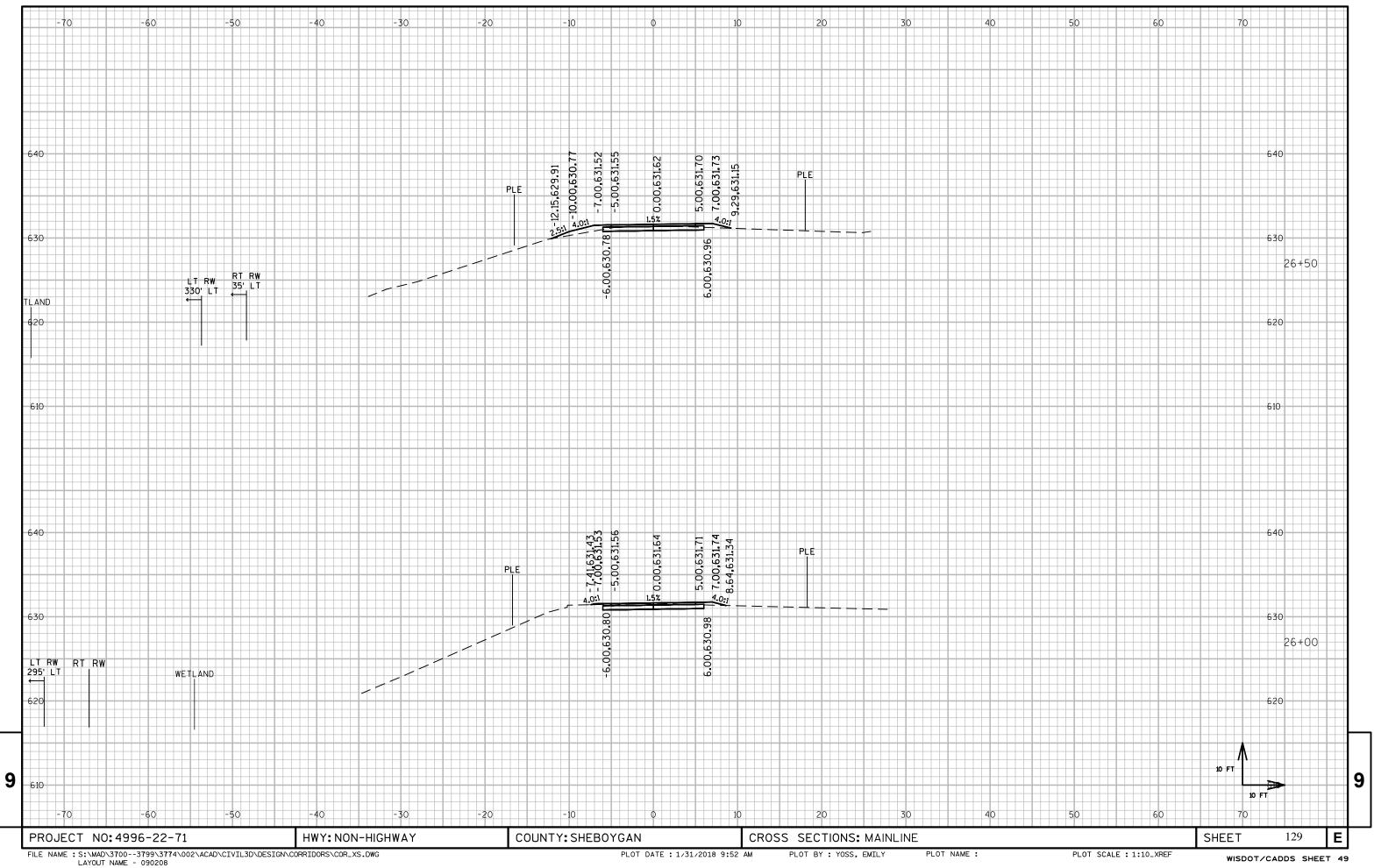


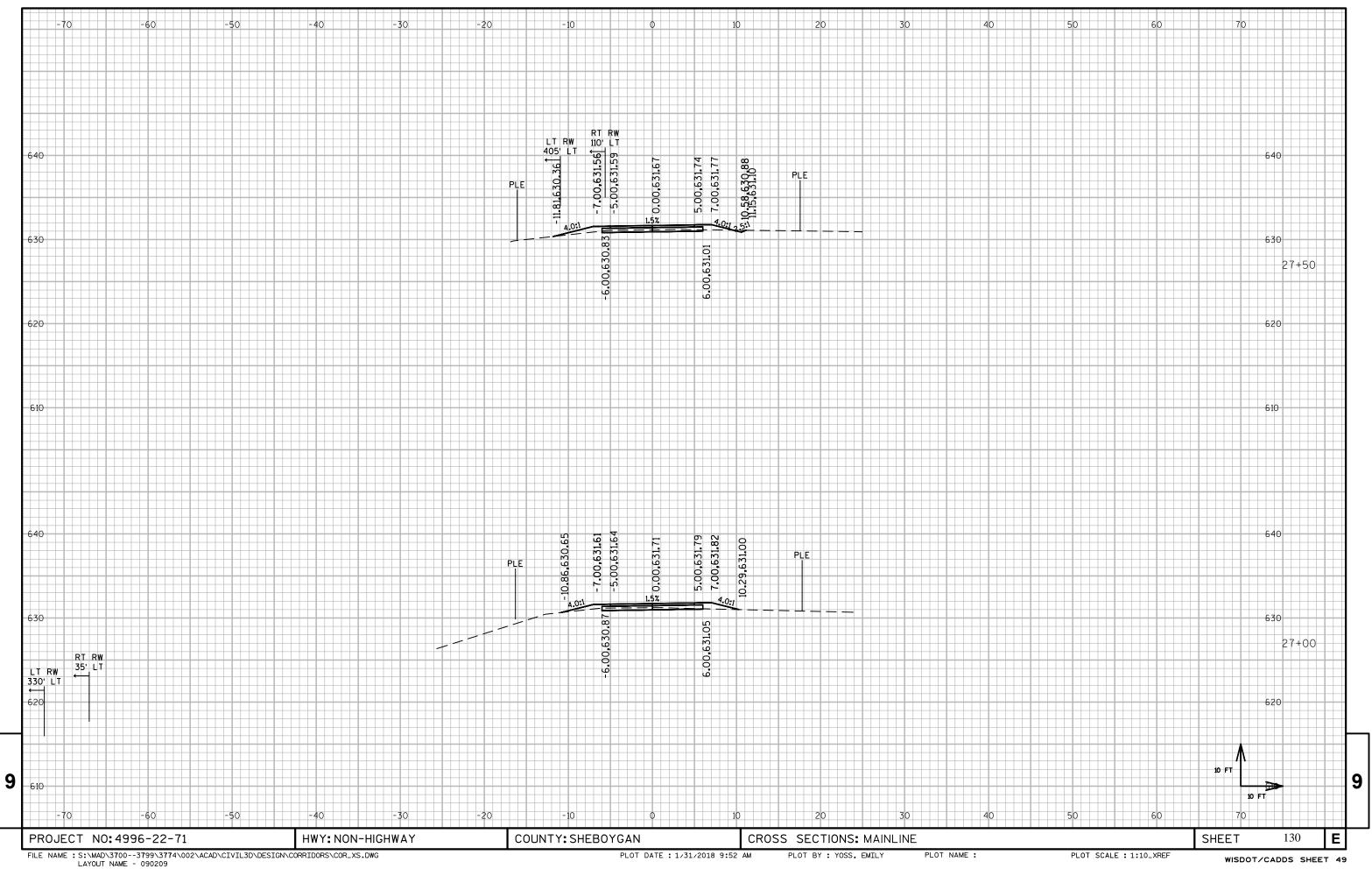


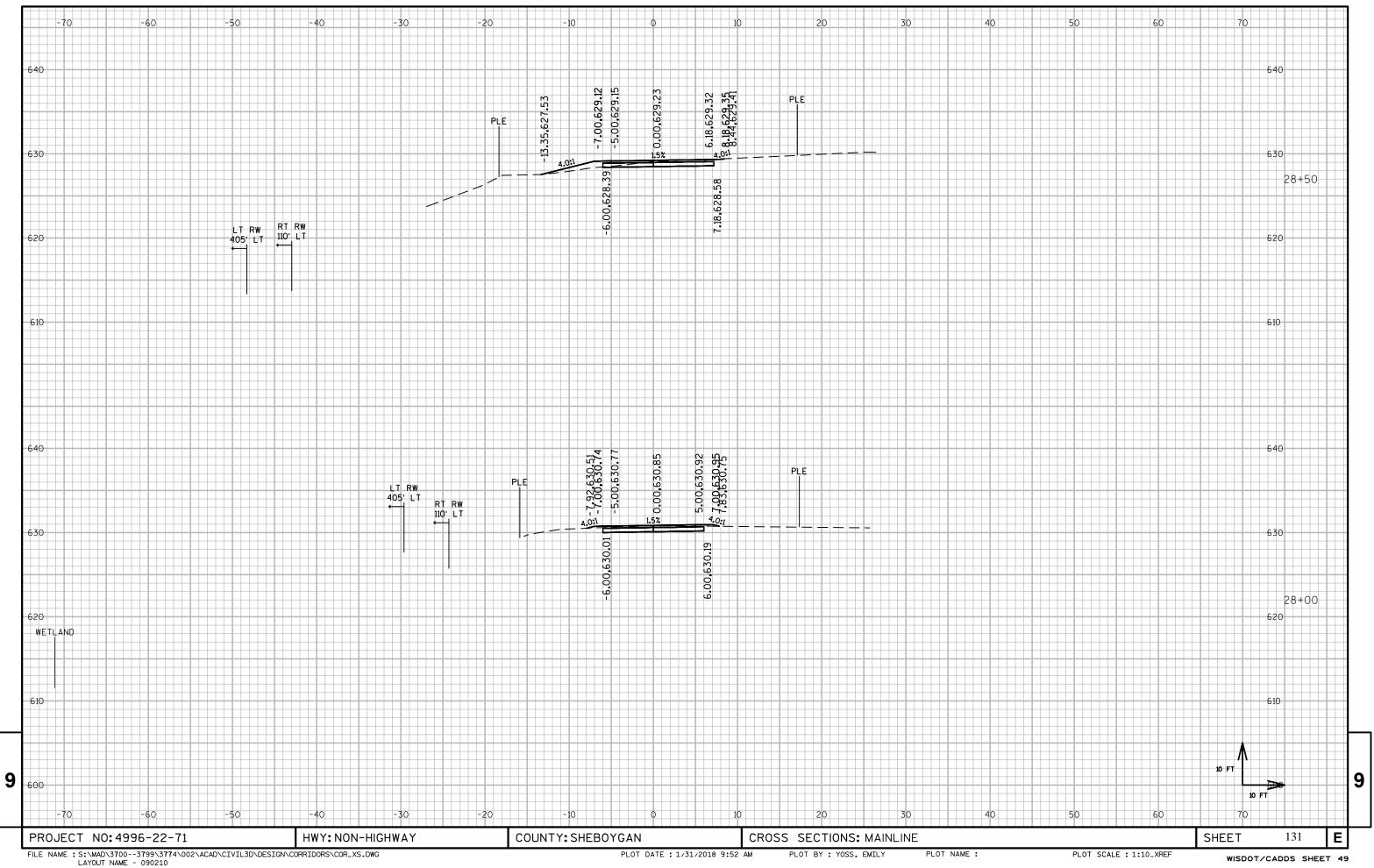


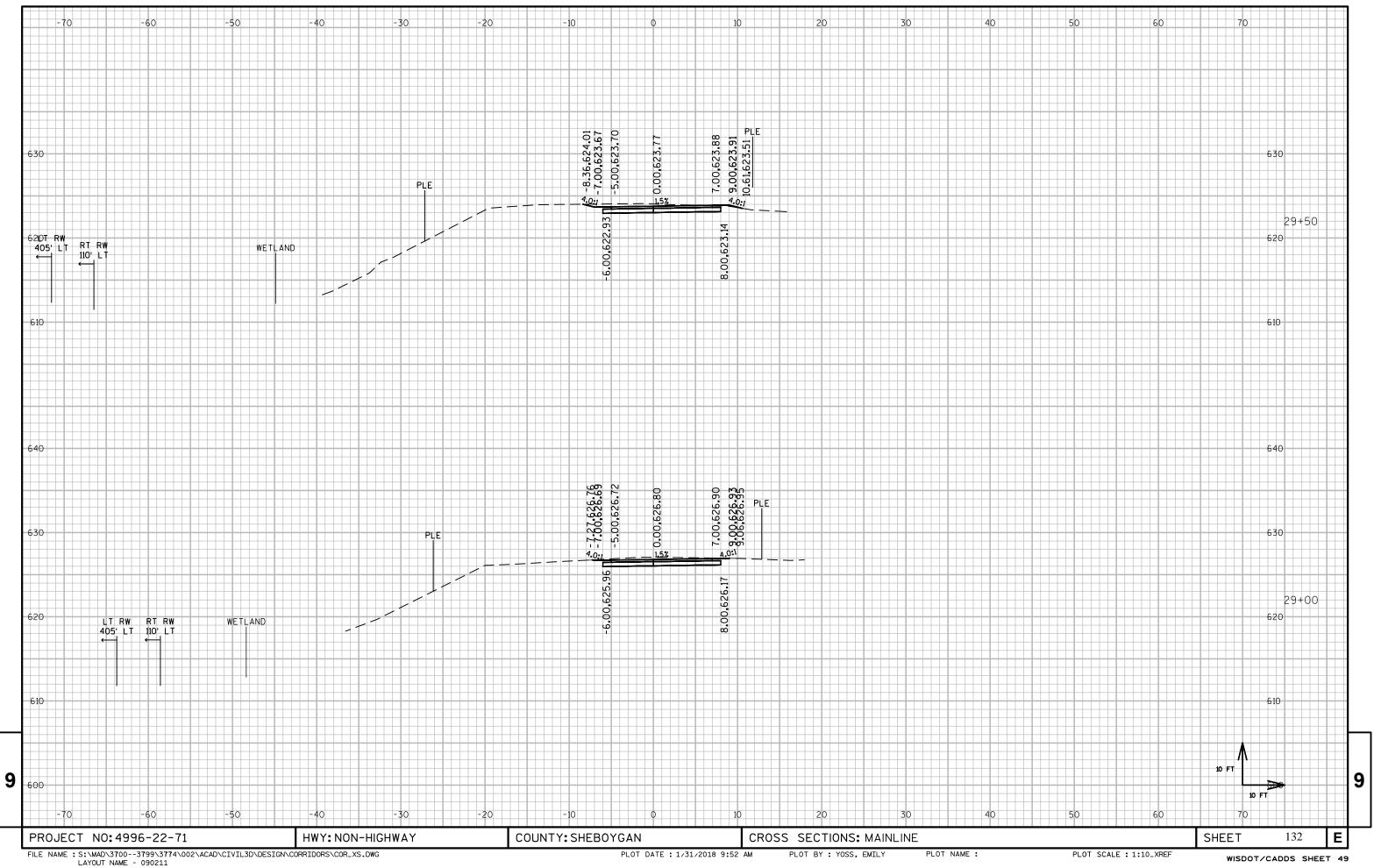


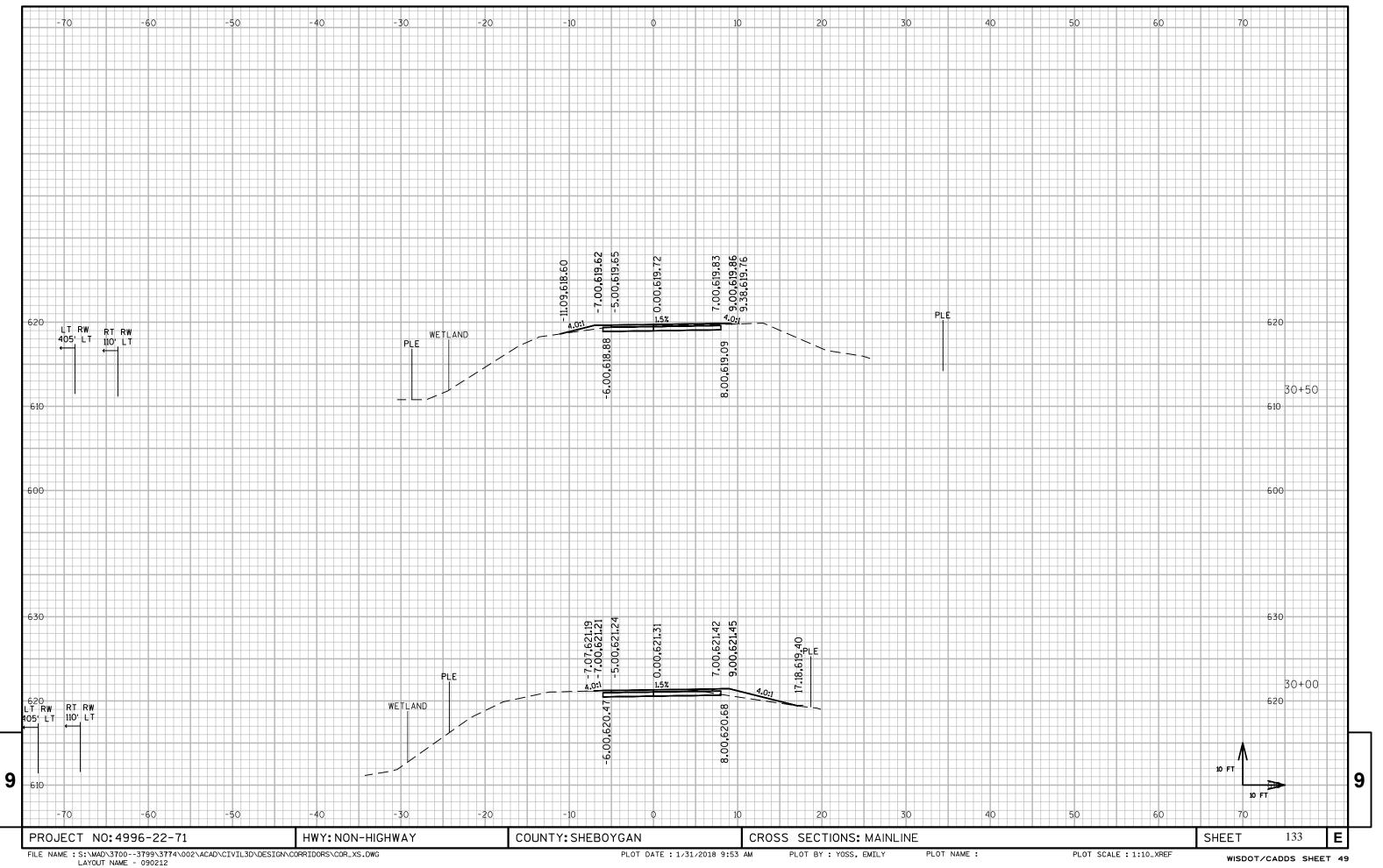


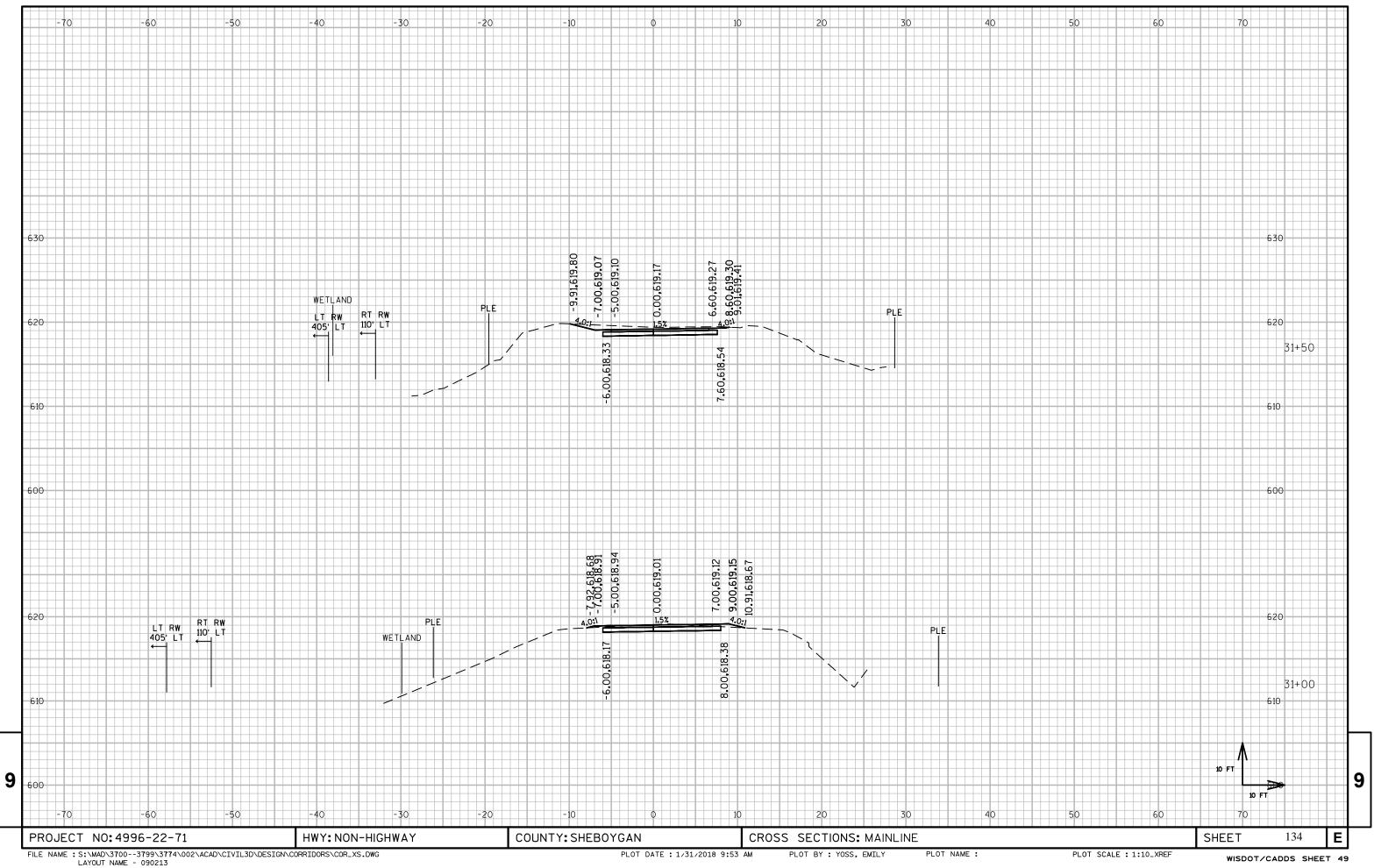


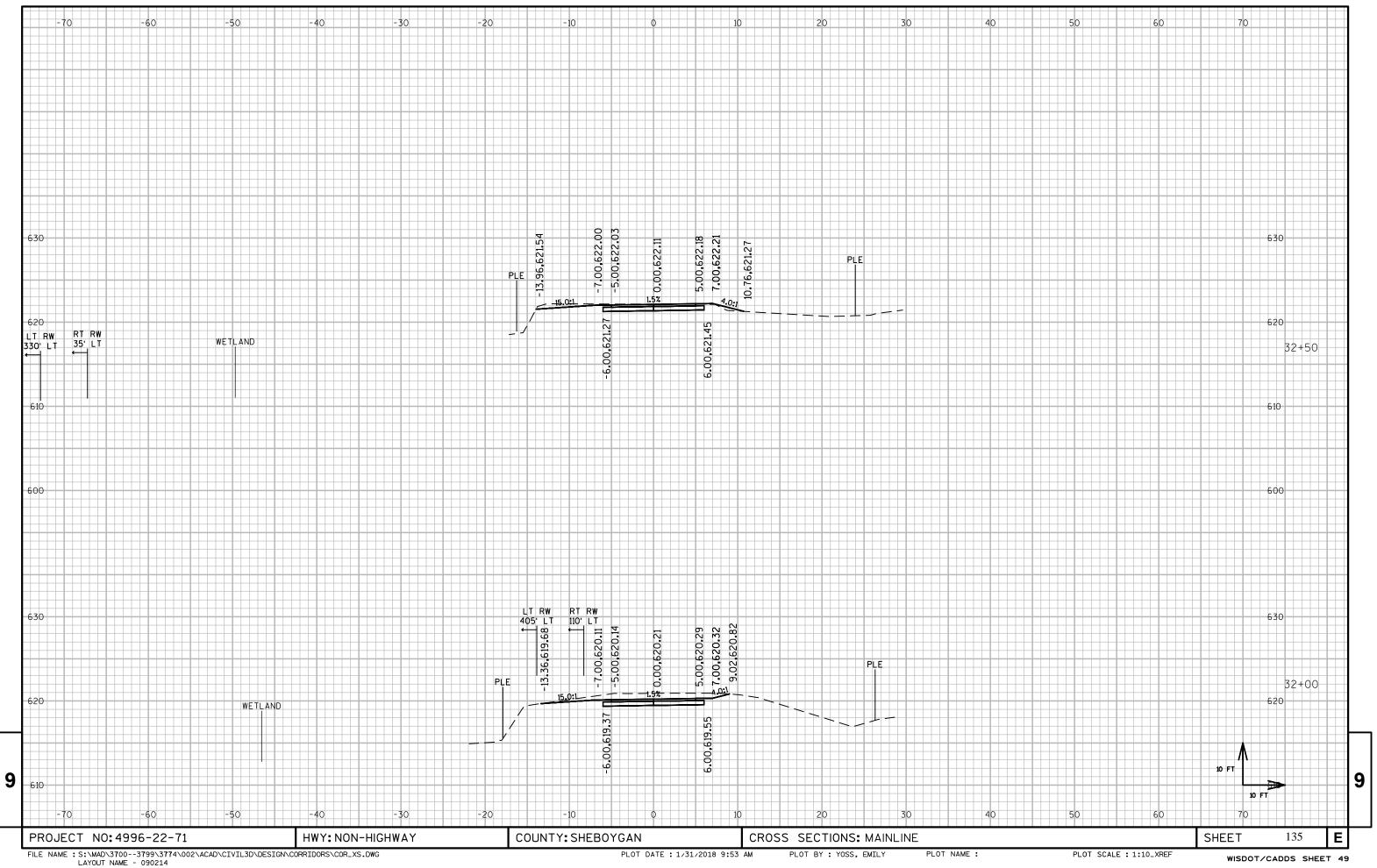


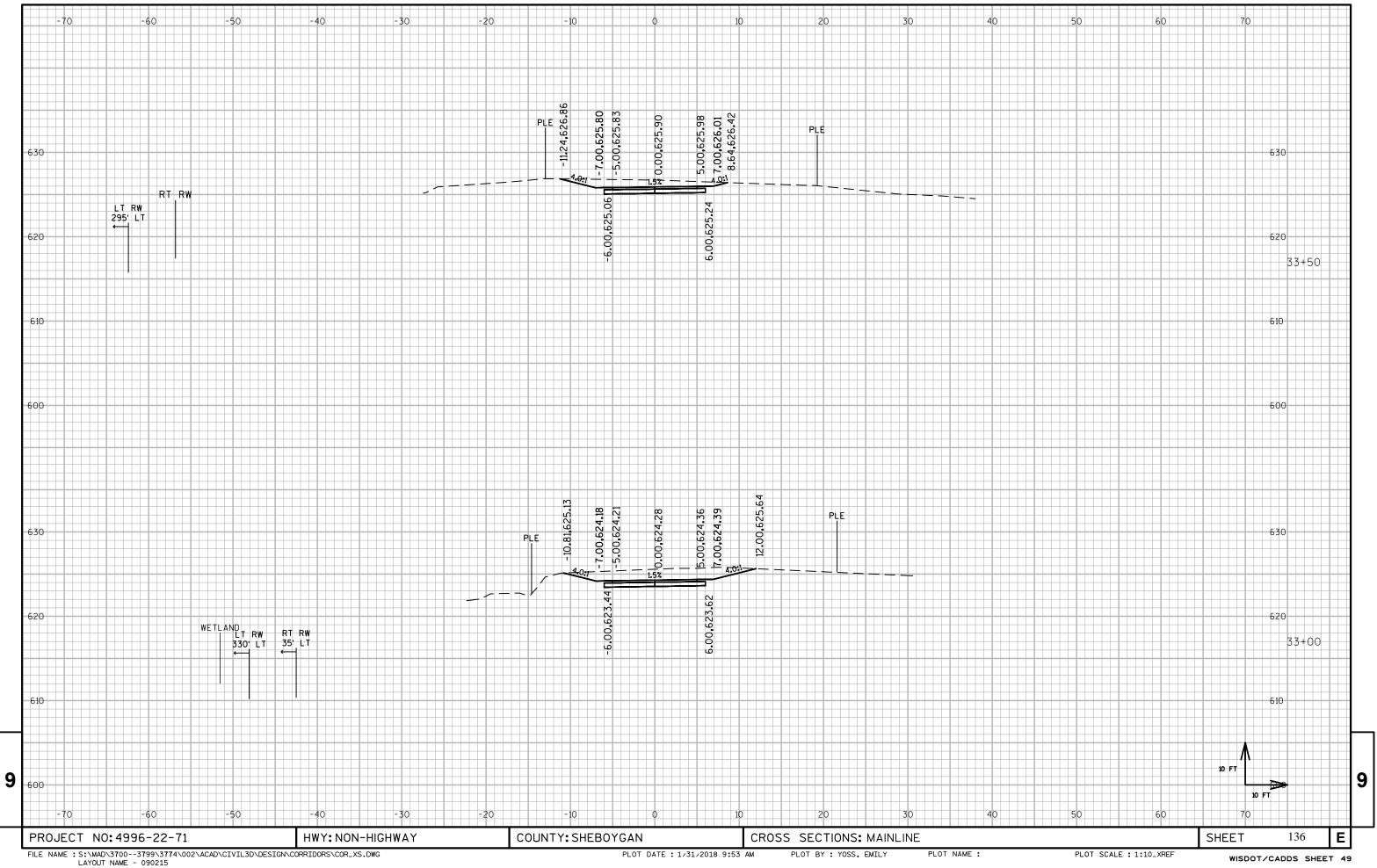


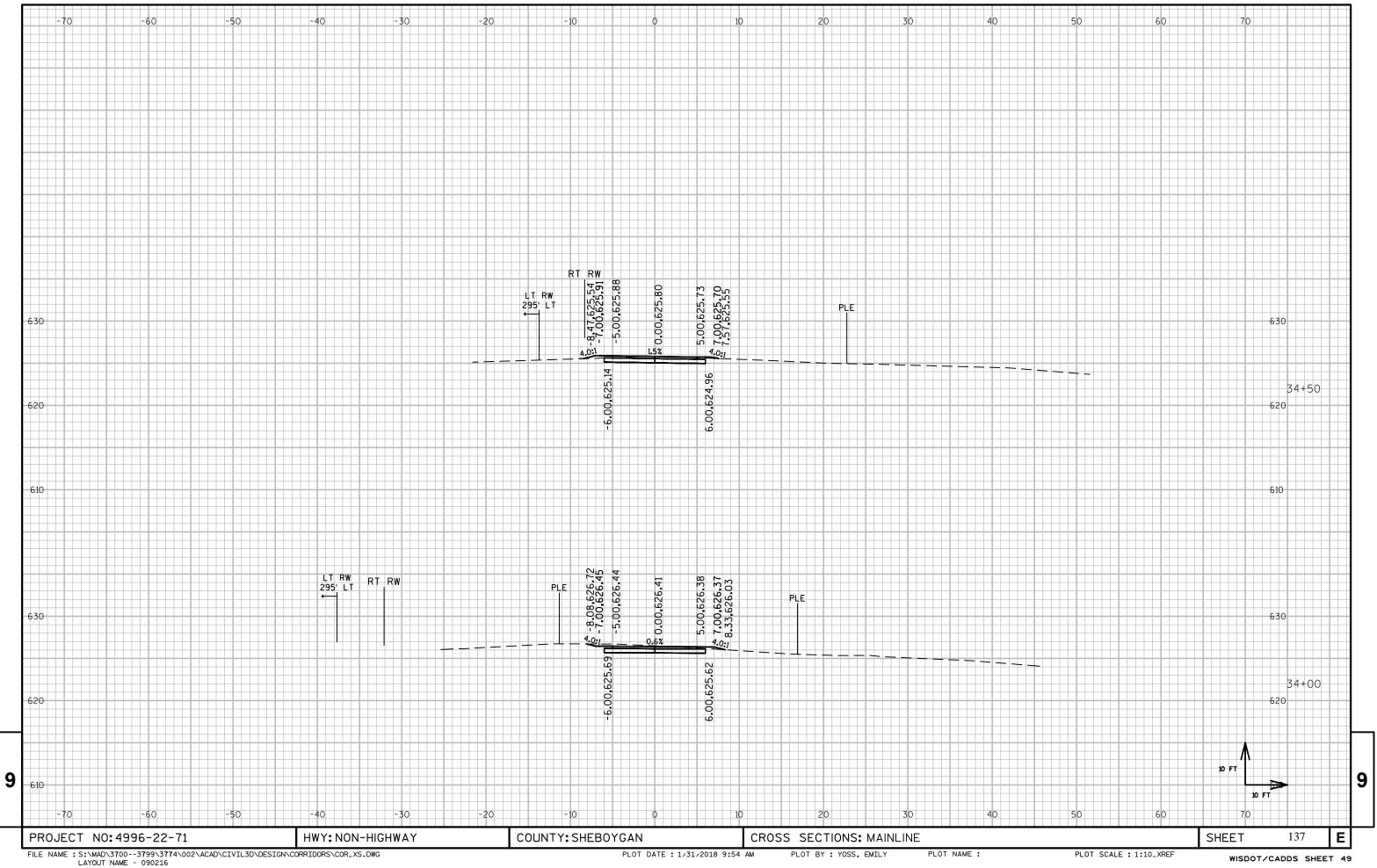


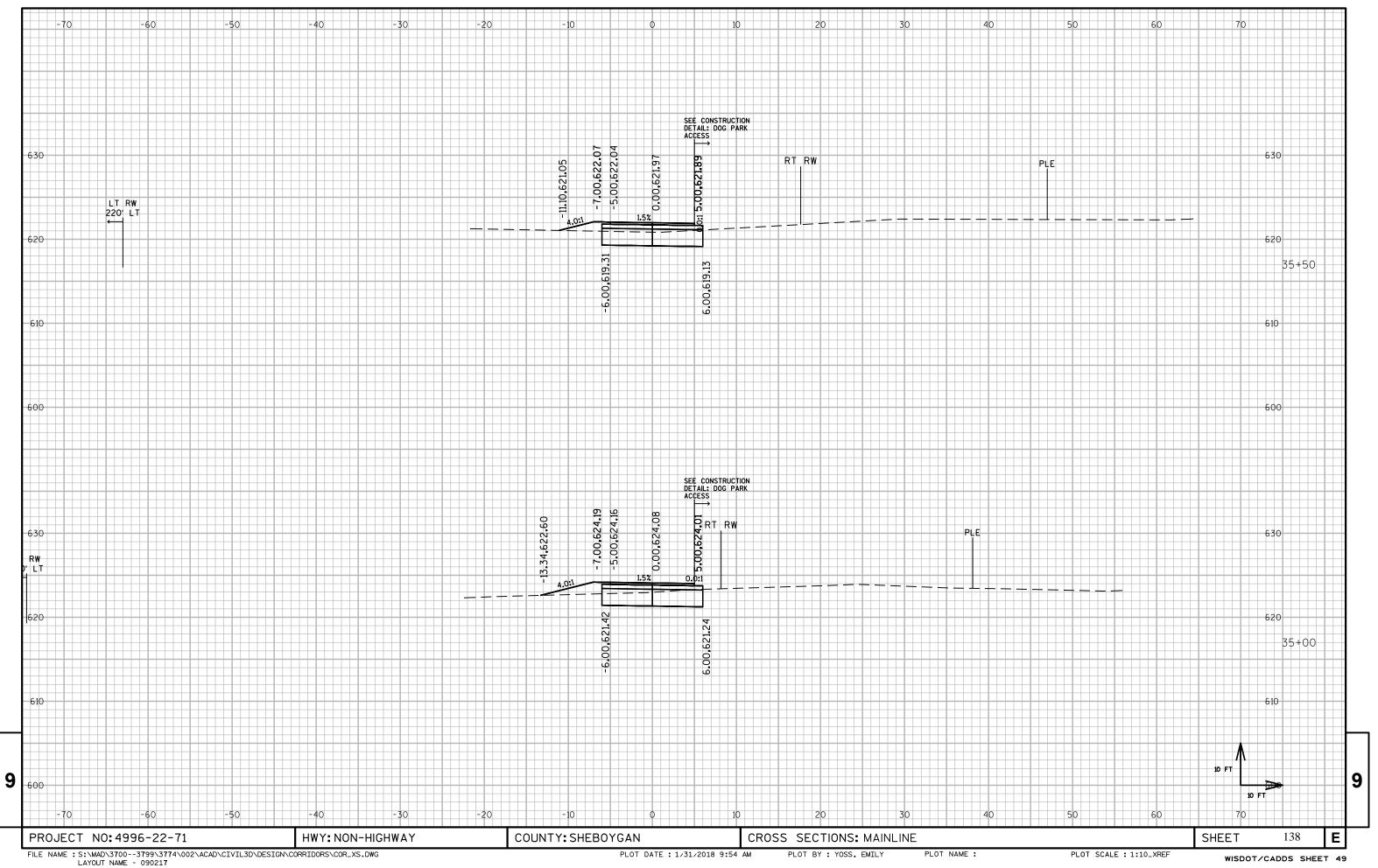


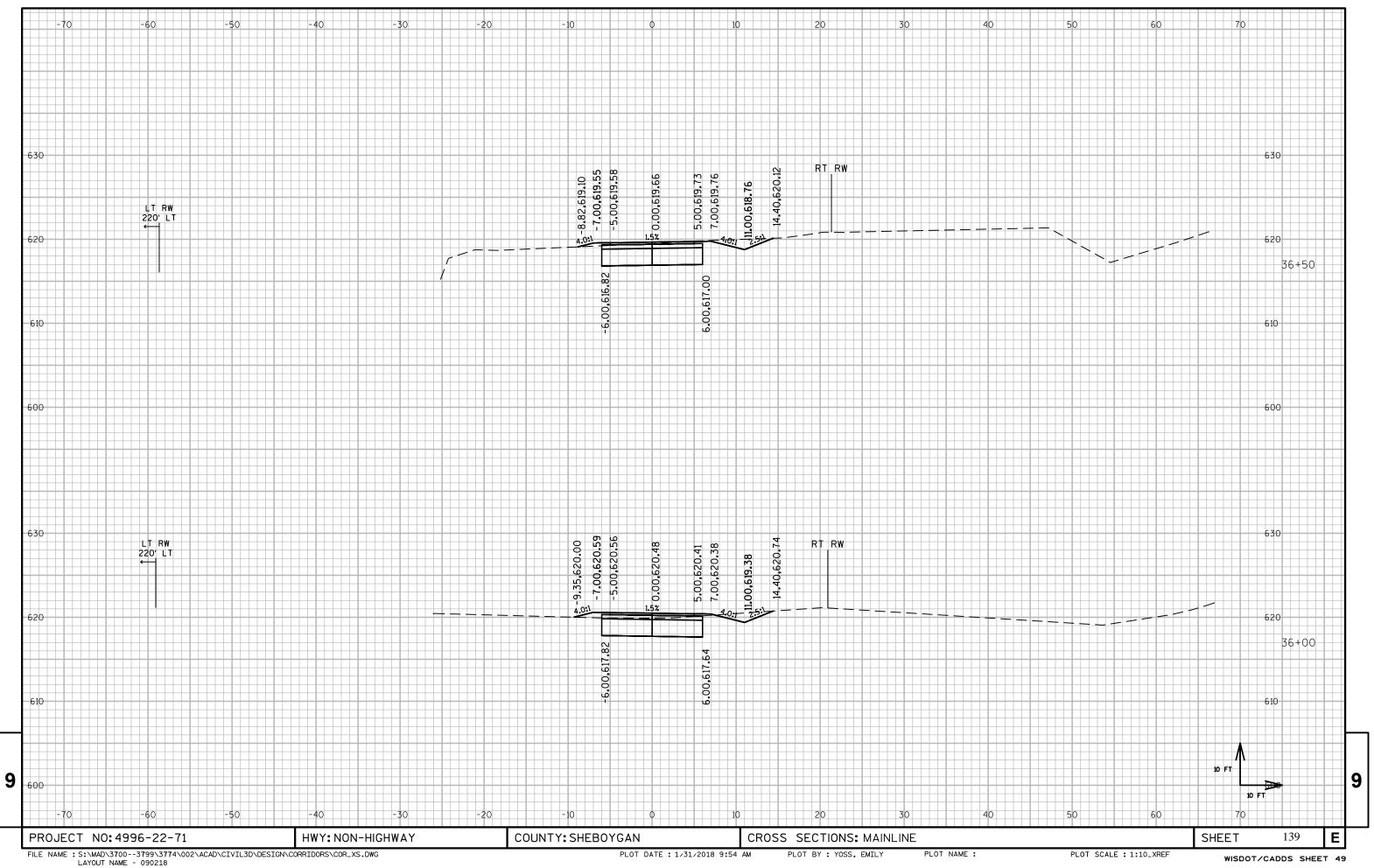


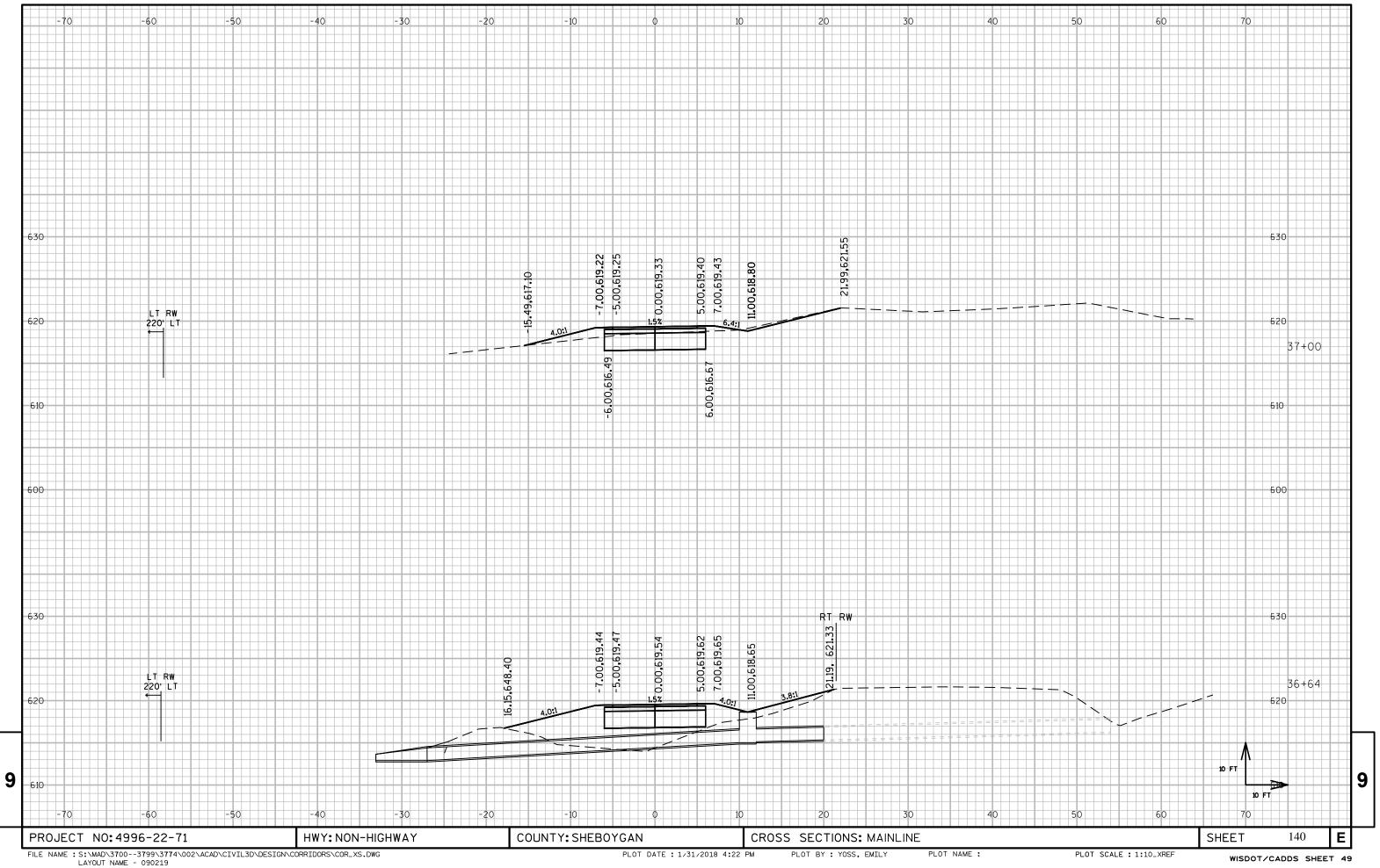


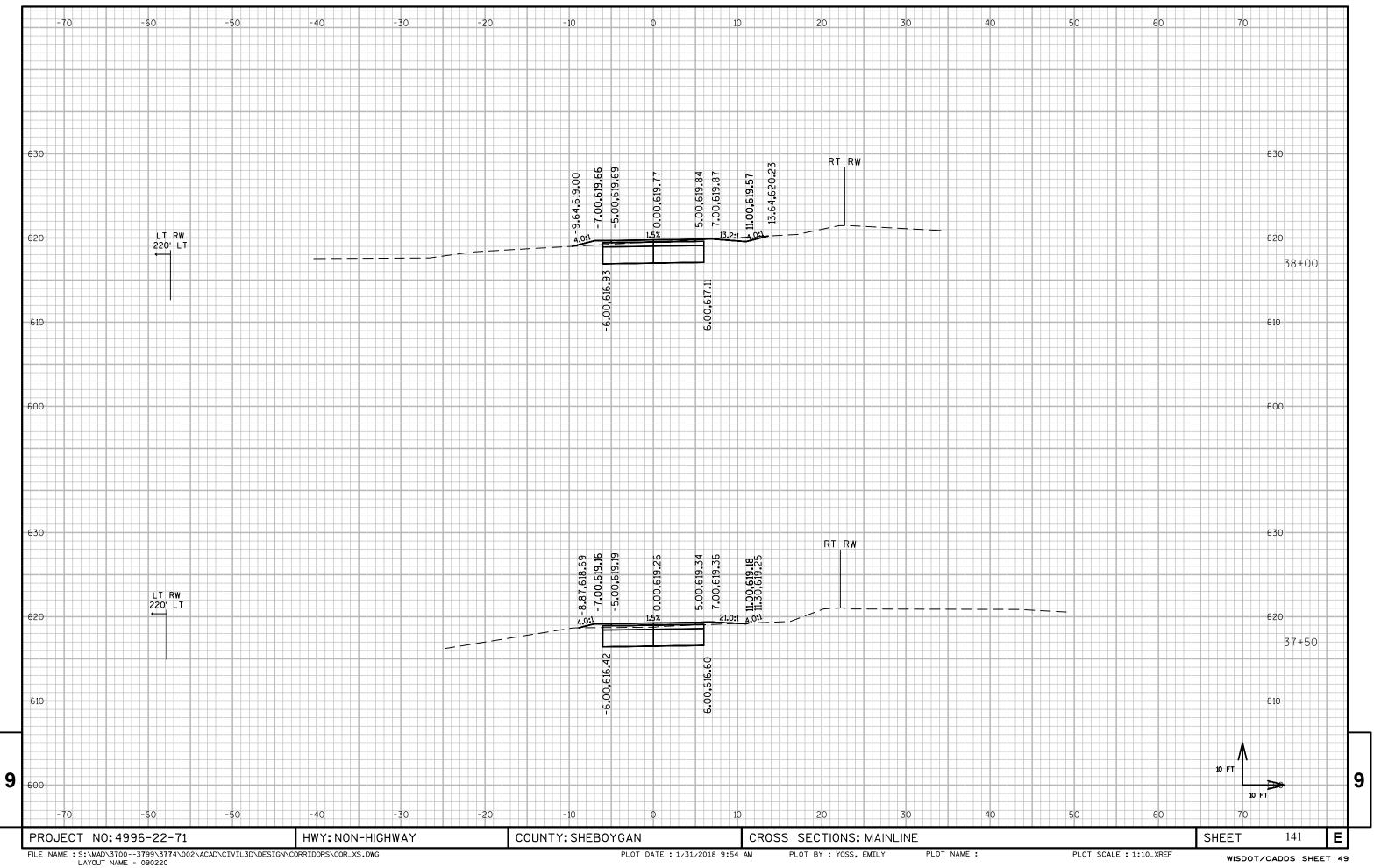


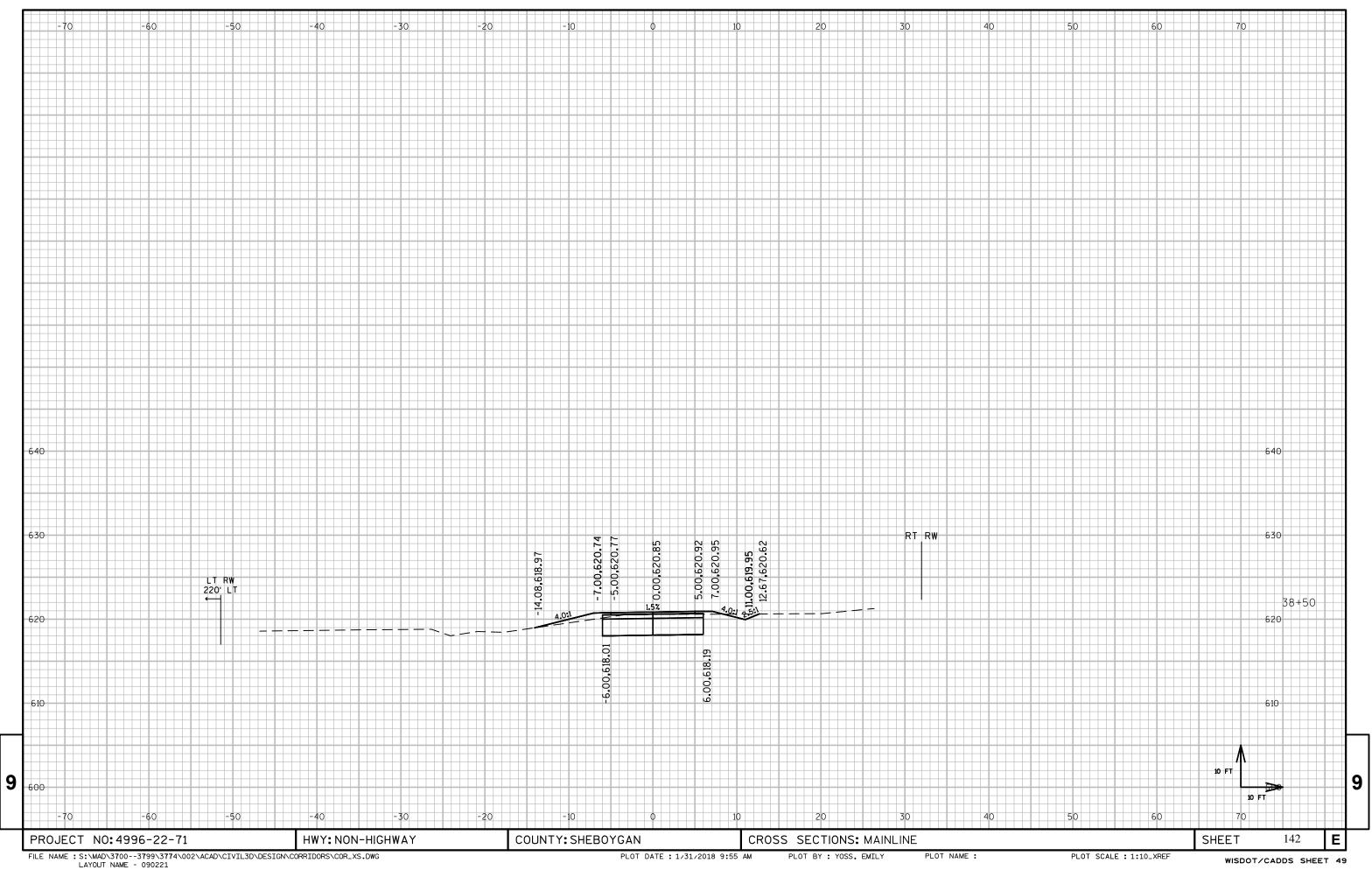


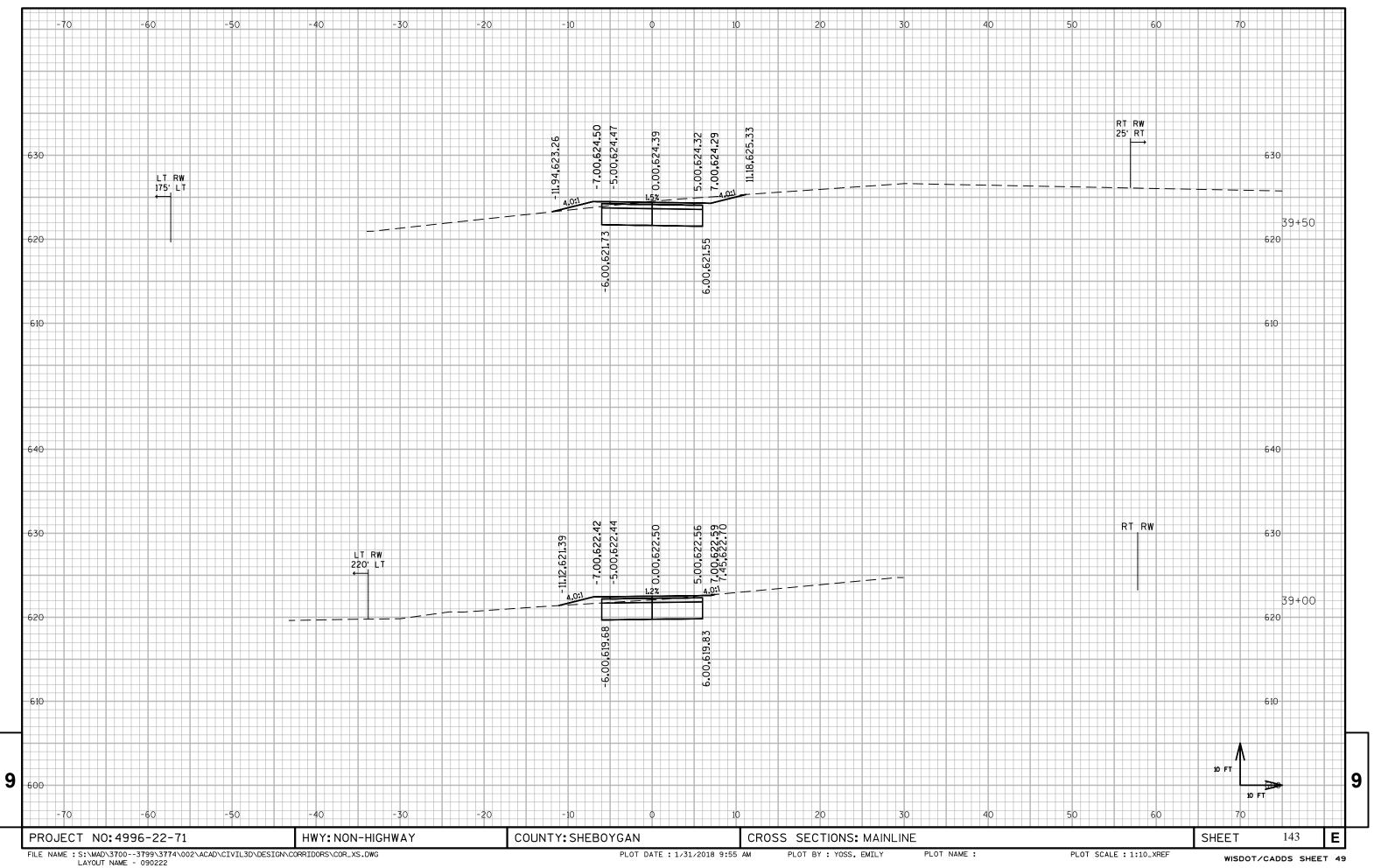


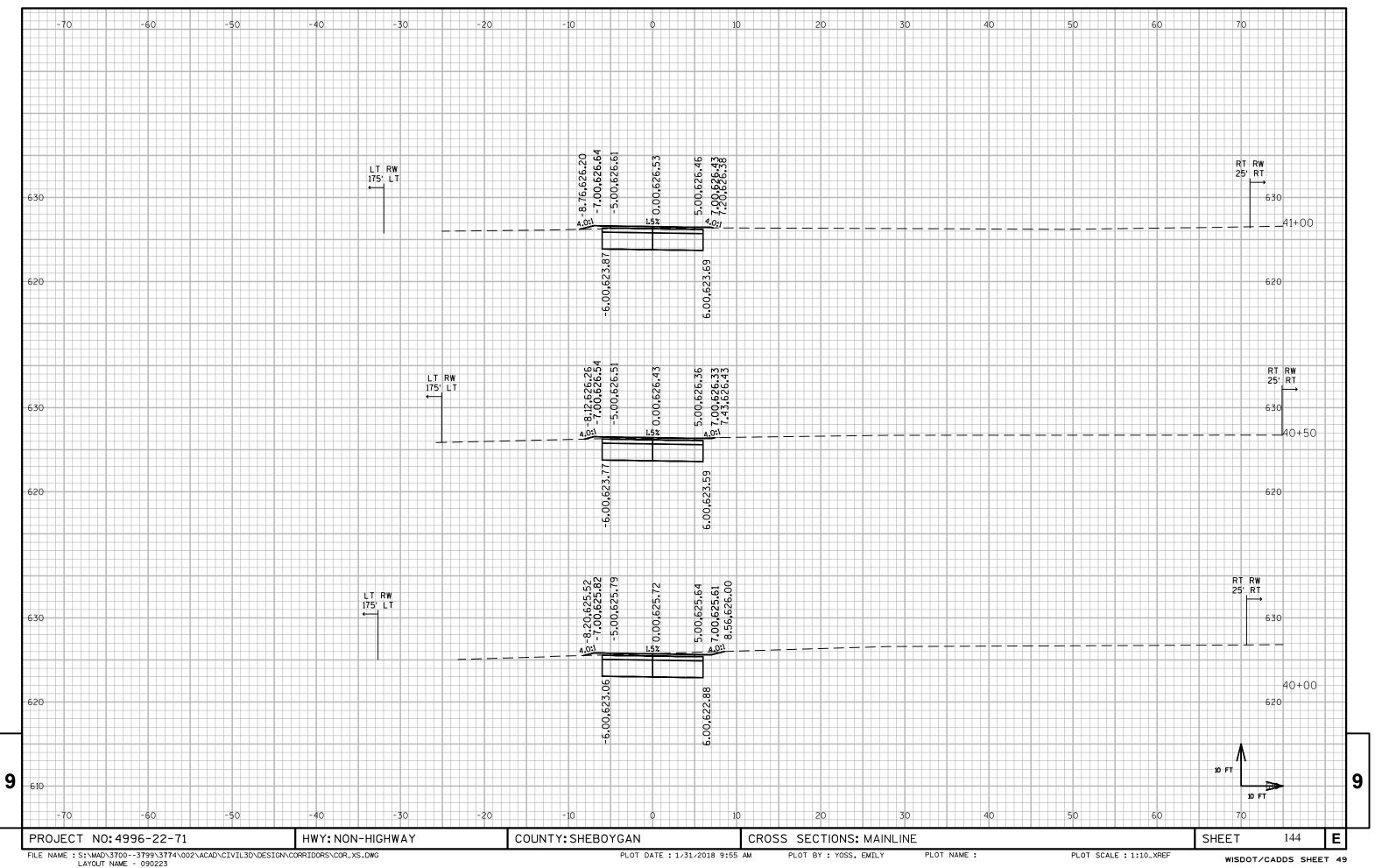


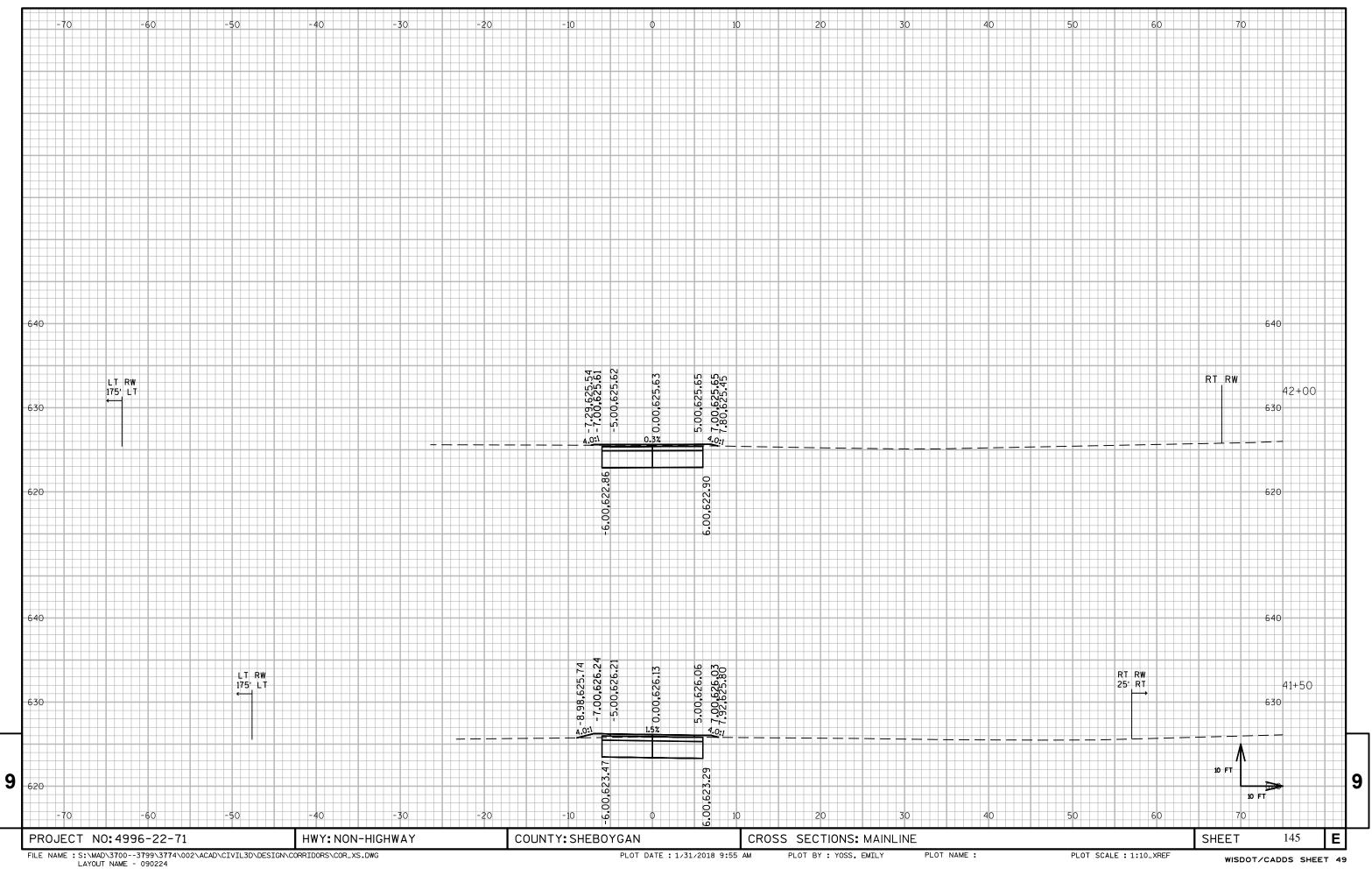


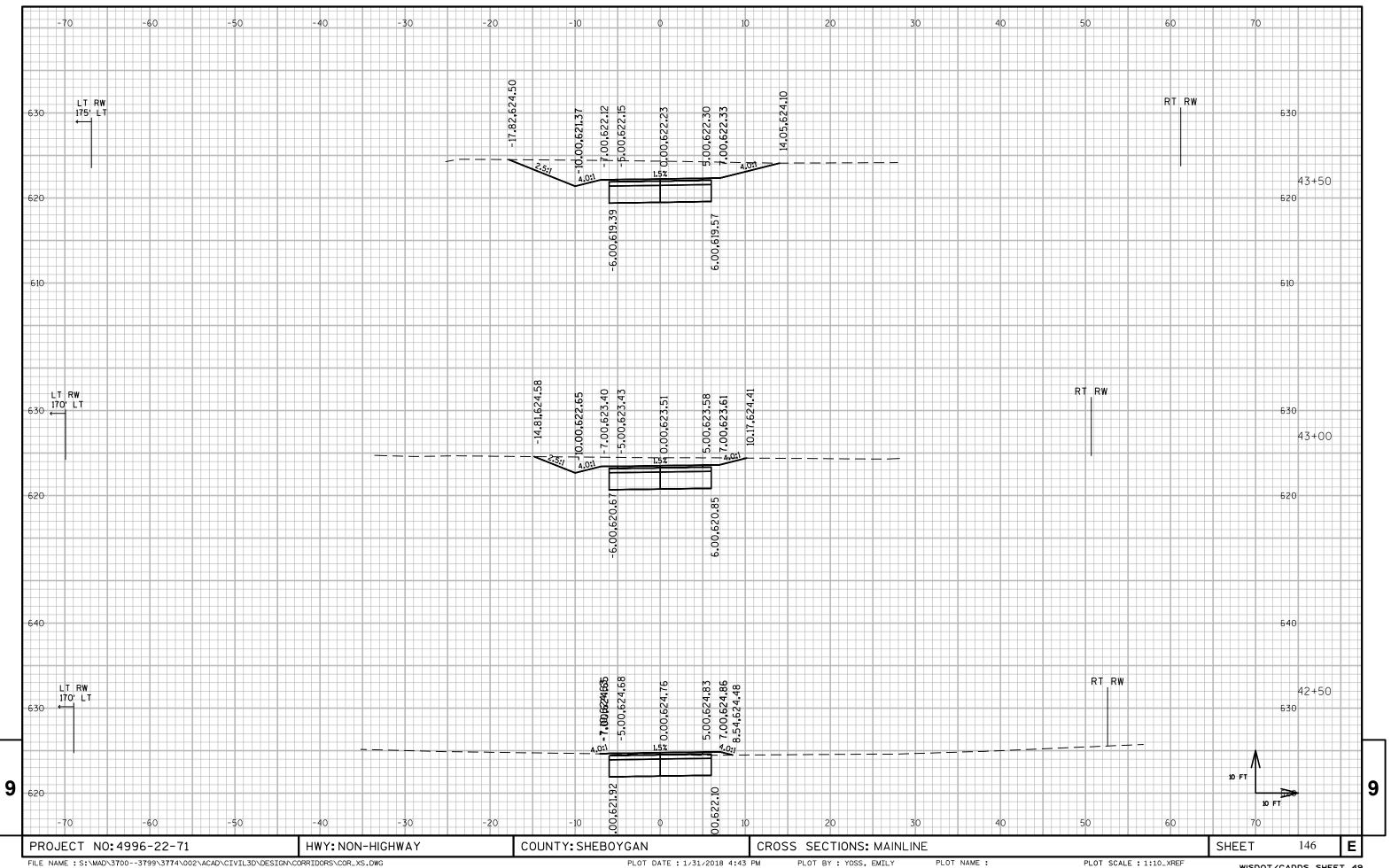


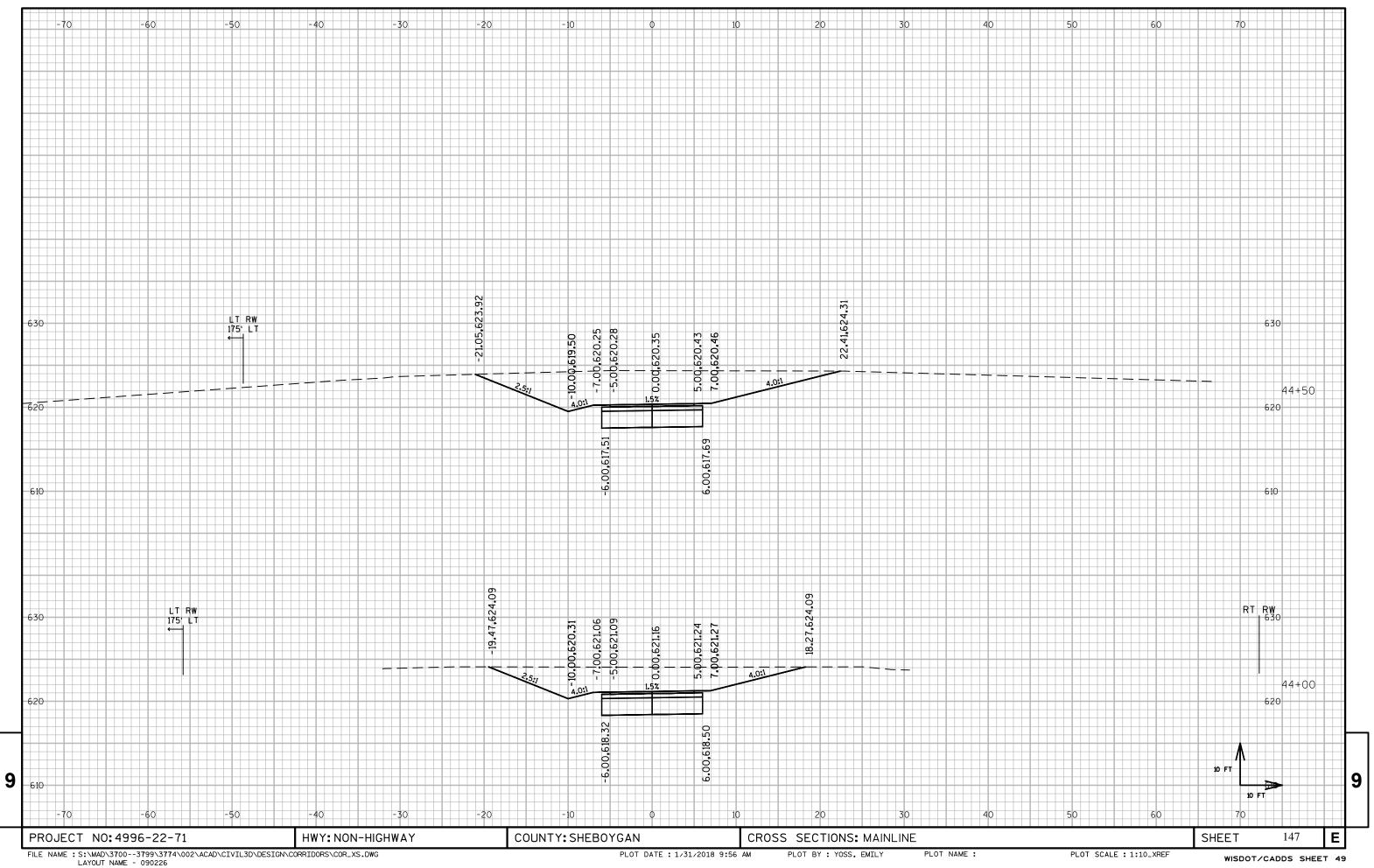


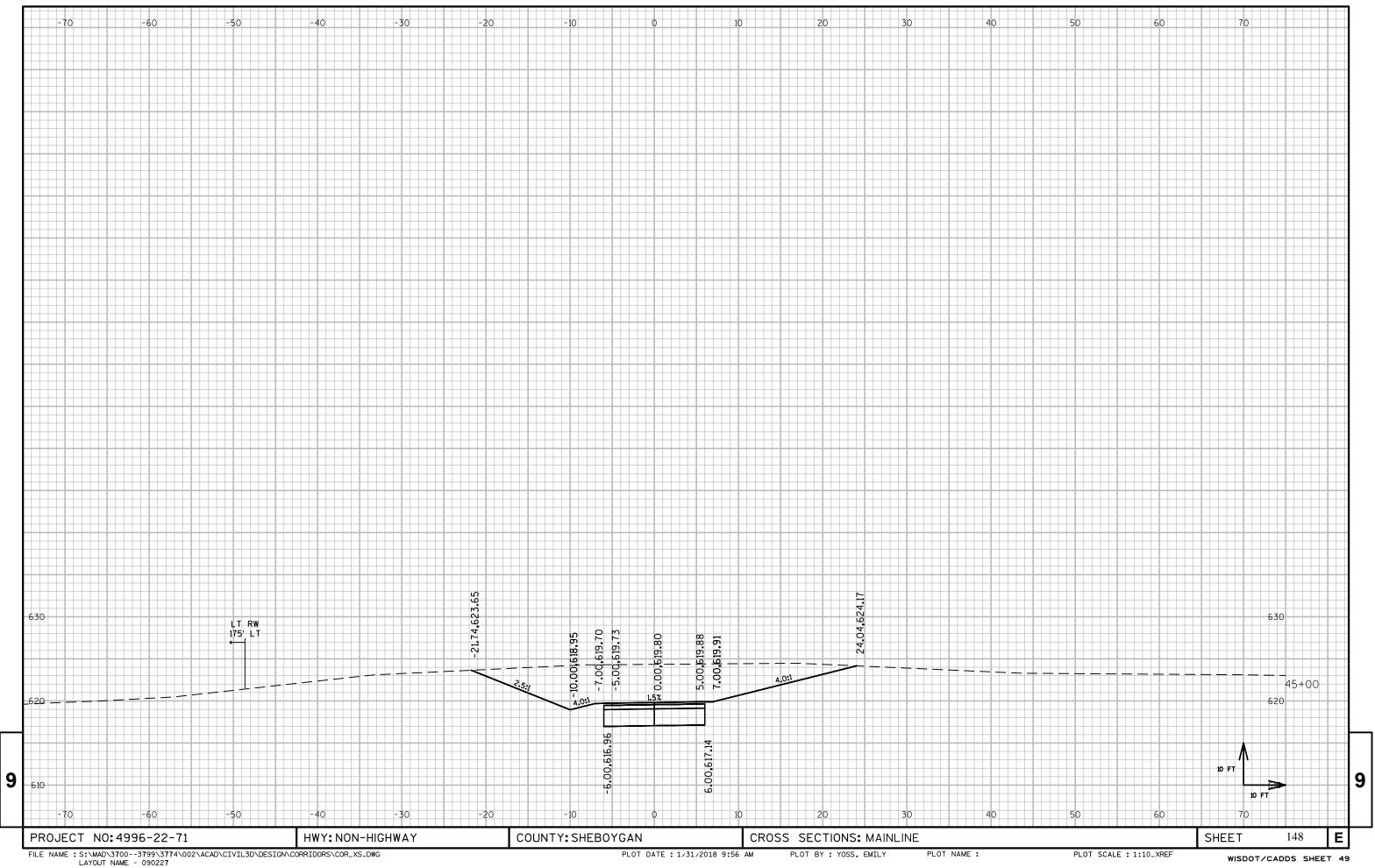


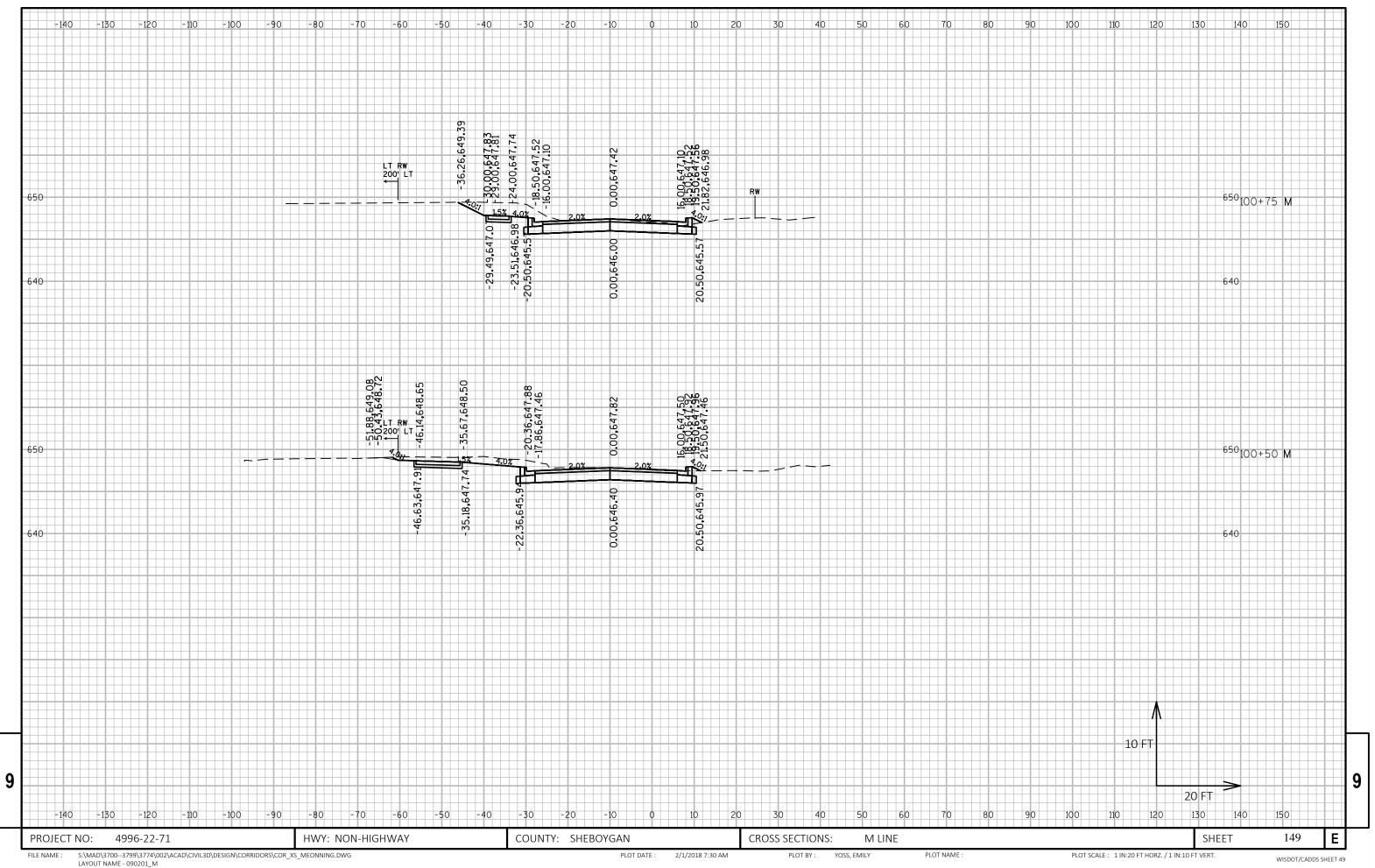


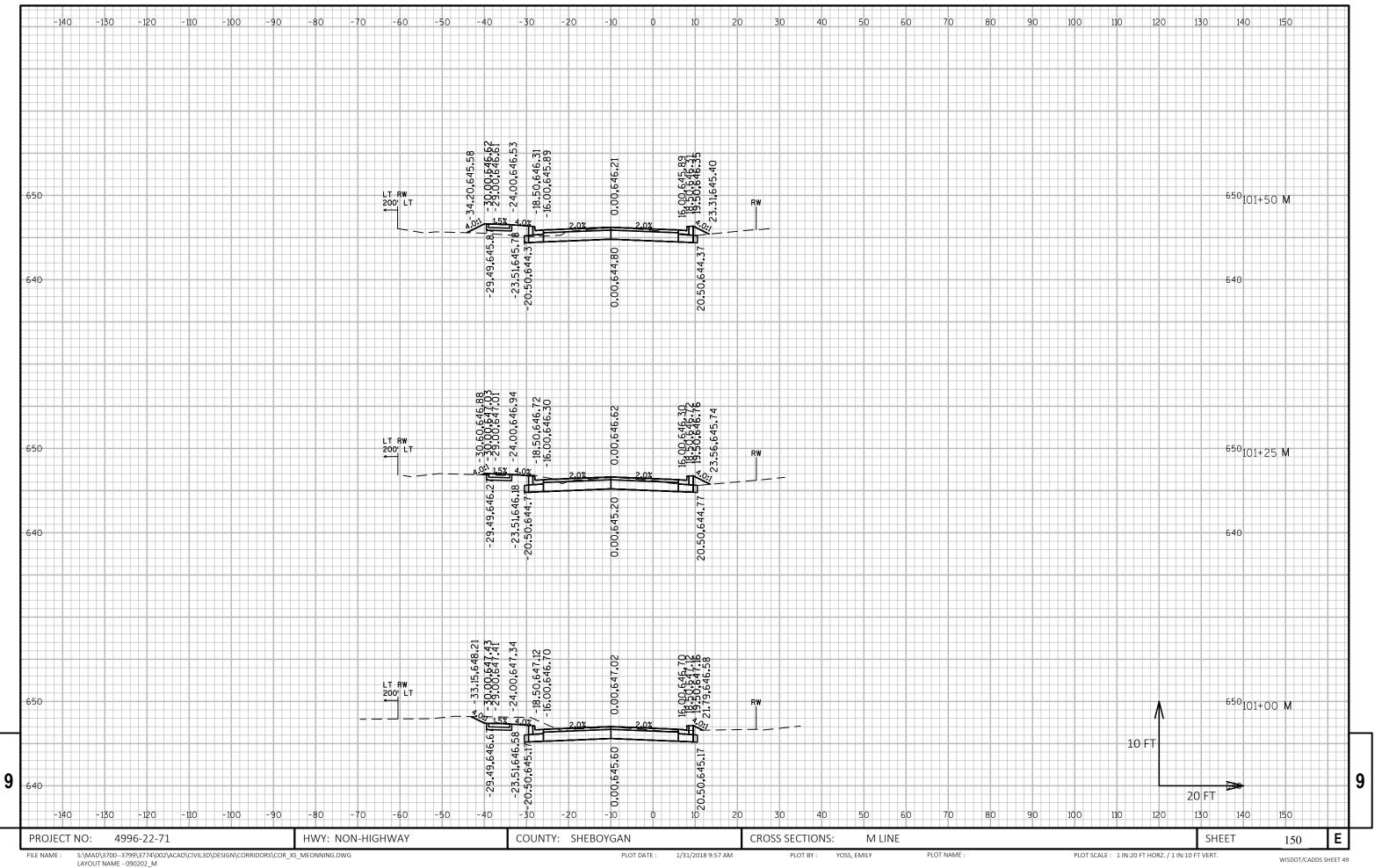


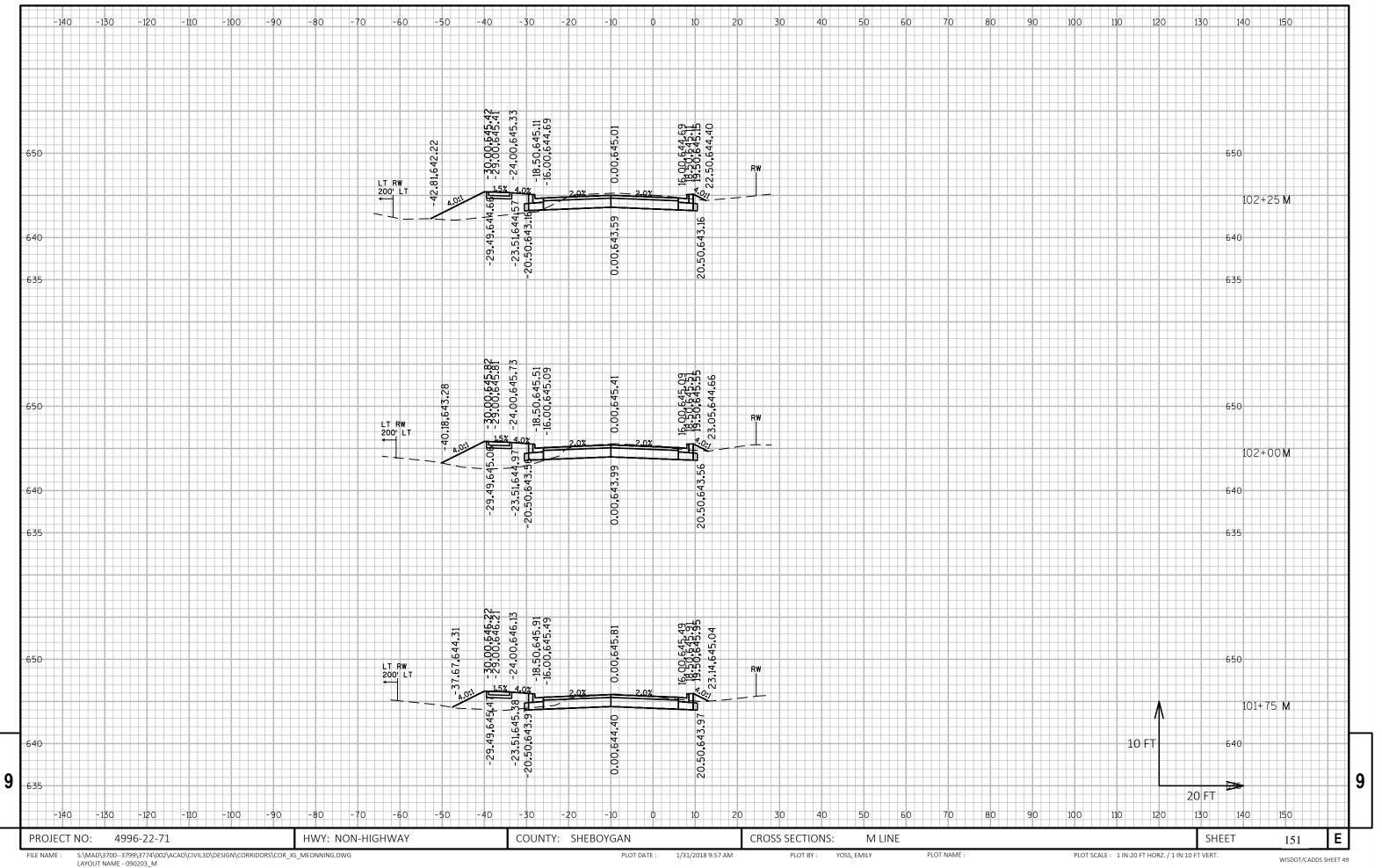


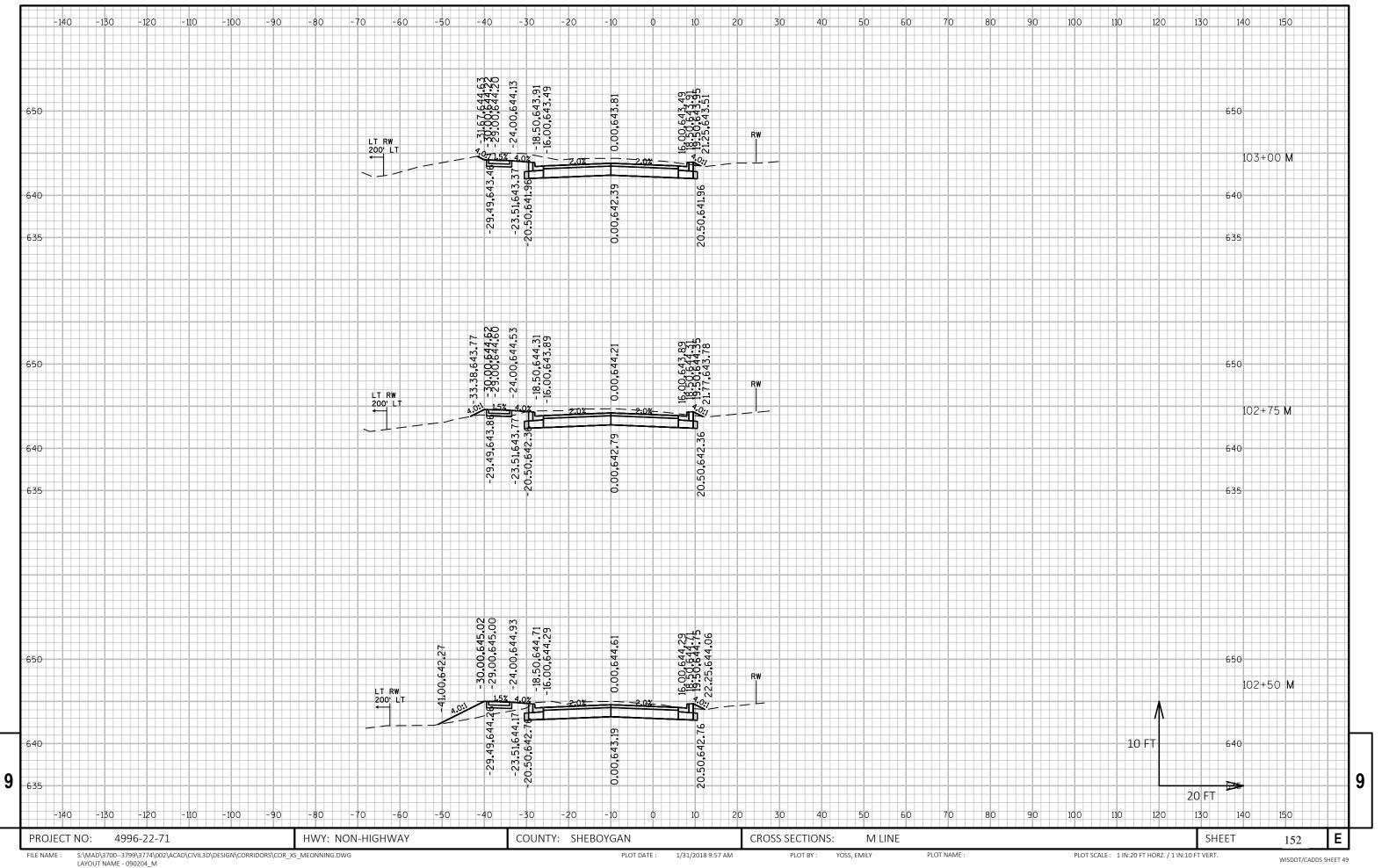


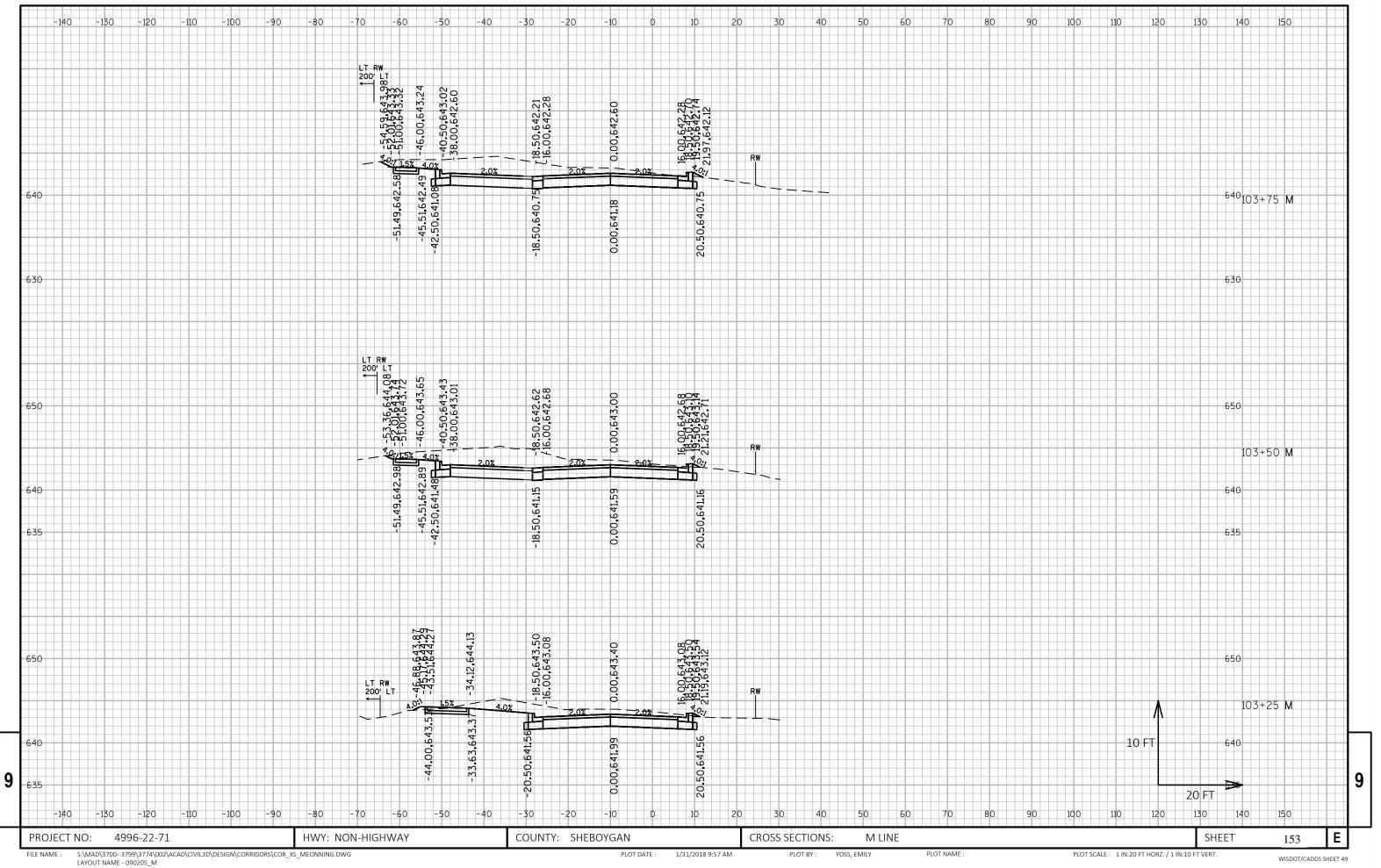


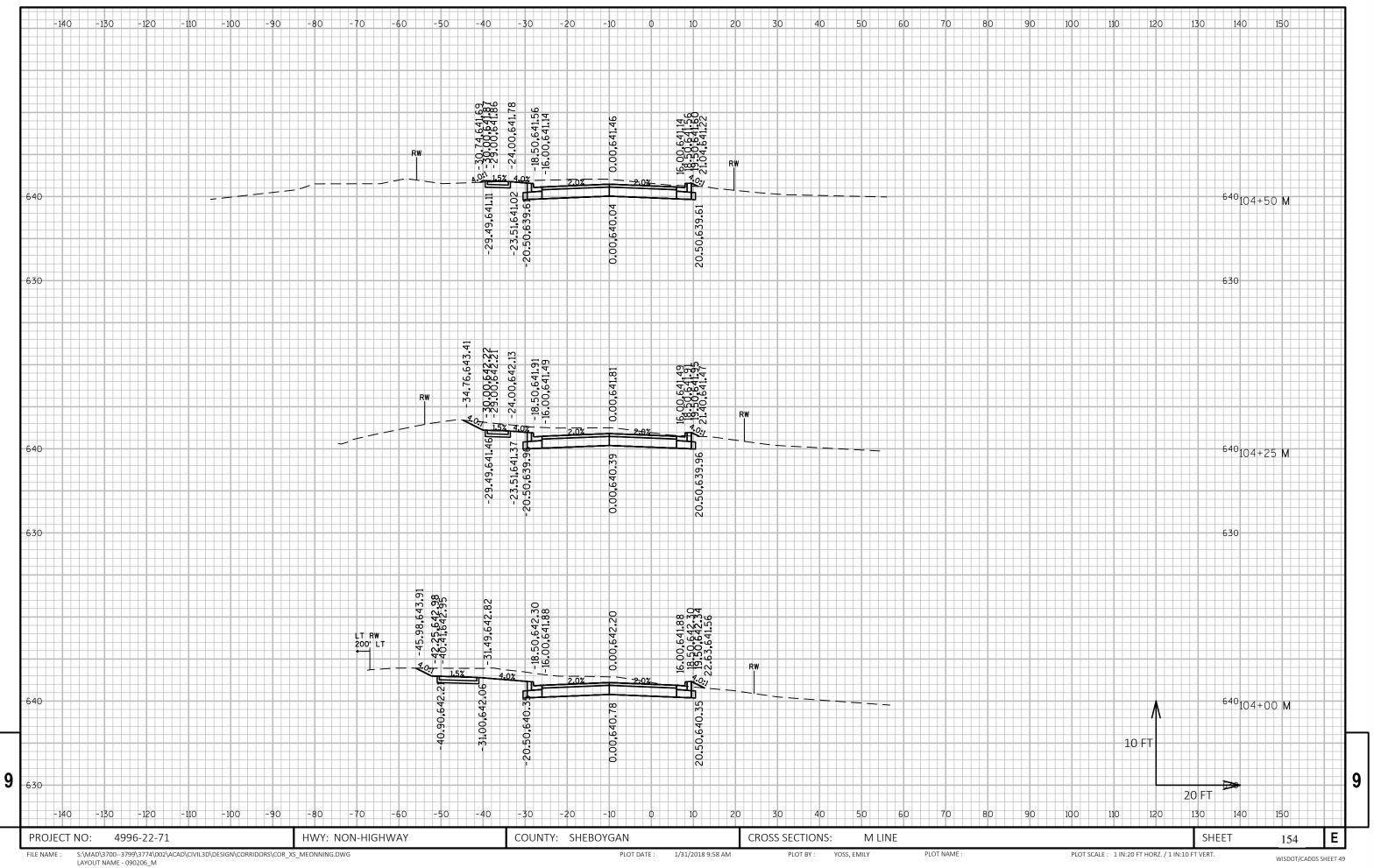


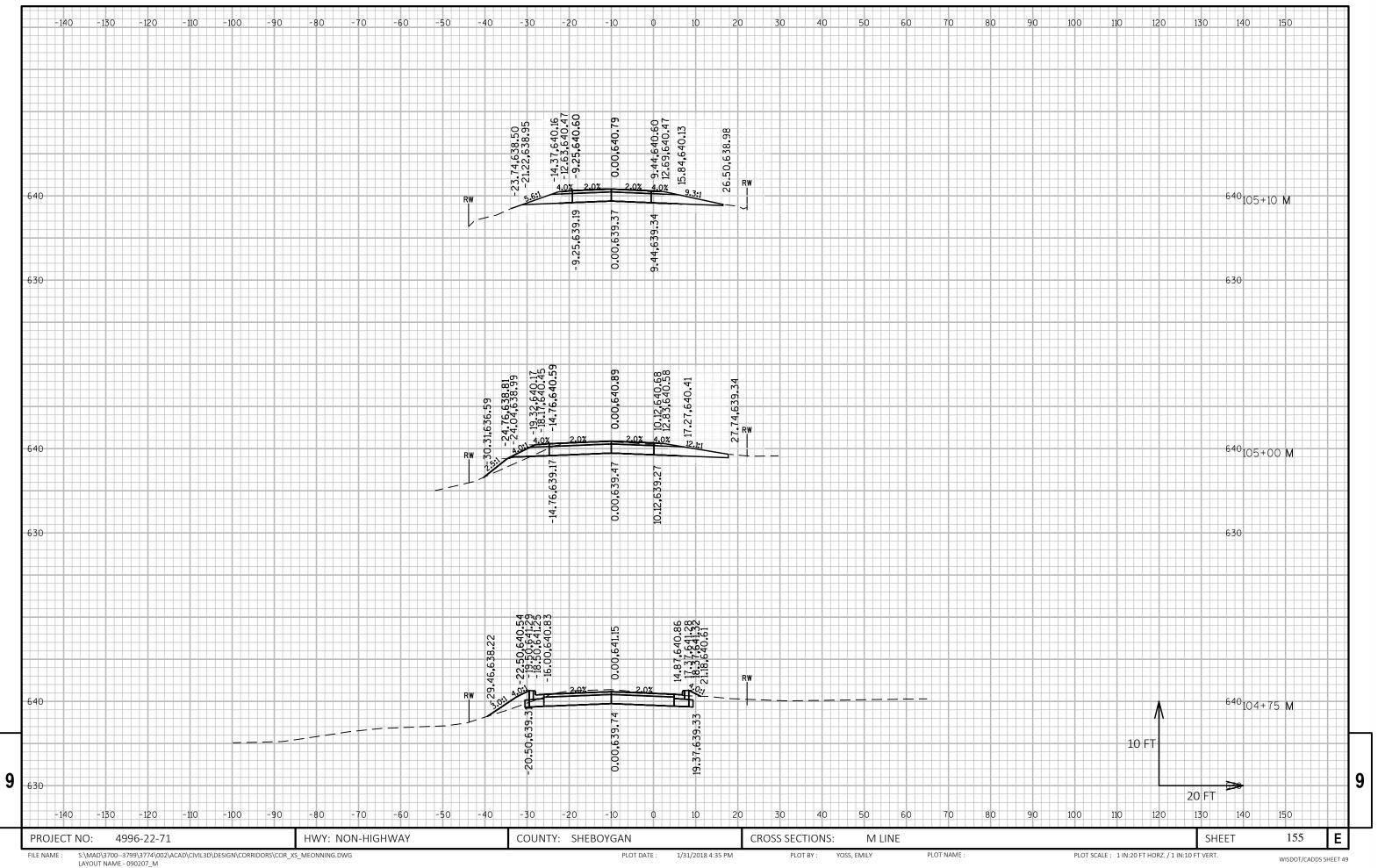


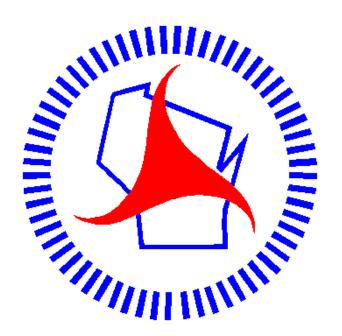












Wisconsin Department of Transportation

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