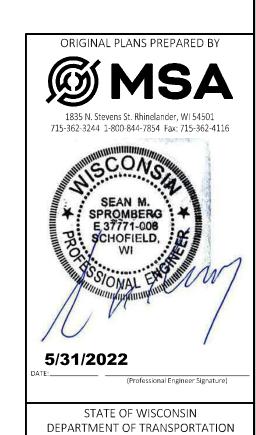
Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Estimate of Quantities Section No. Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Plan and Profile (Includes Erosion Control) Section No. Section No. Standard Detail Drawings Section No. **TOMAHAWK - MINOCQUA** Section No. **LAKE KATHERINE CROSSING B-43-0021 USH 51** TOTAL SHEETS = 70 **ONEIDA COUNTY** PROJECT LOCATION STATE PROJECT NUMBER 1170-16-63 R-7-E R-6-E Lower T-39-N END PROJECT 1170-16-63 STA.1234+75 Y = 220,863.98 X = 187,093.37DESIGN DESIGNATION AADT (2023) = 8.600 A.A.D.T. = 10,100 **BEGIN PROJECT 1170-16-63** = 1,545 D.H.V. STA.1231+90 D.D. = 61/39 Y = 220,648.49 = 11.6% X = 187,279.90DESIGN SPEED = 55 MPH = 2,379,800 T-38-N CONVENTIONAL SYMBOLS PROFILE GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE SLOPE INTERCEPT CULVERT (Profile View) UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, ONIEDA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. MARSH AREA UTILITY PEDESTAL VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. TOTAL NET LENGTH OF CENTERLINE = 0.054 MI GRID DISTANCES MAY BE USED AS GROUND DISTANCES. ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012). POWER POLE ₫ Ø WOODED OR SHRUB AREA TELEPHONE POLE

FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT WISC 2022533 1170-16-63



WISDOT

MSA PROFESSIONAL SERVICES, INC

DAN ERVA, PE

DAN ERVA, PE

PREPARED BY

Surveyor

Designer

Project Manage

APPROVED FOR THE DEPARTMENT

6/1/2022

STATE OF WISCONSIN

SHAWN DOLENS

WISDOT/CADDS SHEET 42

GENERAL NOTES

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

SECTION 2 ORDER

GENERAL NOTES TYPICAL SECTIONS CONSTRUCTION DETAIL
PAVEMENT MARKING PLAN
TRAFFIC CONTROL

AS-BUILT REFERENCE (YEAR)

ID 1177-04-70 (1976) ID 1176-09-60 (1994) ID 1173-13-70 (2008)

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES 107 SUTLIFF AVENUE RHINELANDER, WI 54501 ATTN: WENDY HENNIGES PHONE: (715) 365-8916 wendy.henniges@wisconsin.gov

UTILITIES

ELECTRIC: WISCONSIN PUBLIC SERVICE CORPORATION - ELECTRICITY PO BOX 1166 WAUSAU, WI 54402 ATTN: CLAYTON VIRCKS PHONE: (715) 573-7806 clayton.vircks@wisconsinpublicservice.com

*NOT A MEMBER OF DIGGERS HOTLINE



RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
		ŀ	4		В			С		D		
	SLOF	PE RANG	SE (PERCENT)	SLOPE RANGE (PERCENT)		SLOP	E RANGI	E (PERCENT)	SLOPE RANGE (PERCENT)		E (PERCENT)	
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER		2-6	6 & OVER	0-2	2-6	6 & OVER
MEDIAN STRIP TURF	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25 0.32	0.30 0.40
SIDE SLOPE TURF			0.25			0.27			0.28			0.30 0.38
PAVEMENT:		'				0.40 - 0.60						
ASPHALT:						0.70 - 0.95						
CONCRETE:						0.80 - 0.95						
BRICK: 0.70 - 0.80												
DRIVES, WALKS:	/ALKS: 0.75 - 0.85											
ROOFS: 0.75 - 0.95												
GRAVEL ROADS, SI	HOULDERS 0.40 - 0.60											

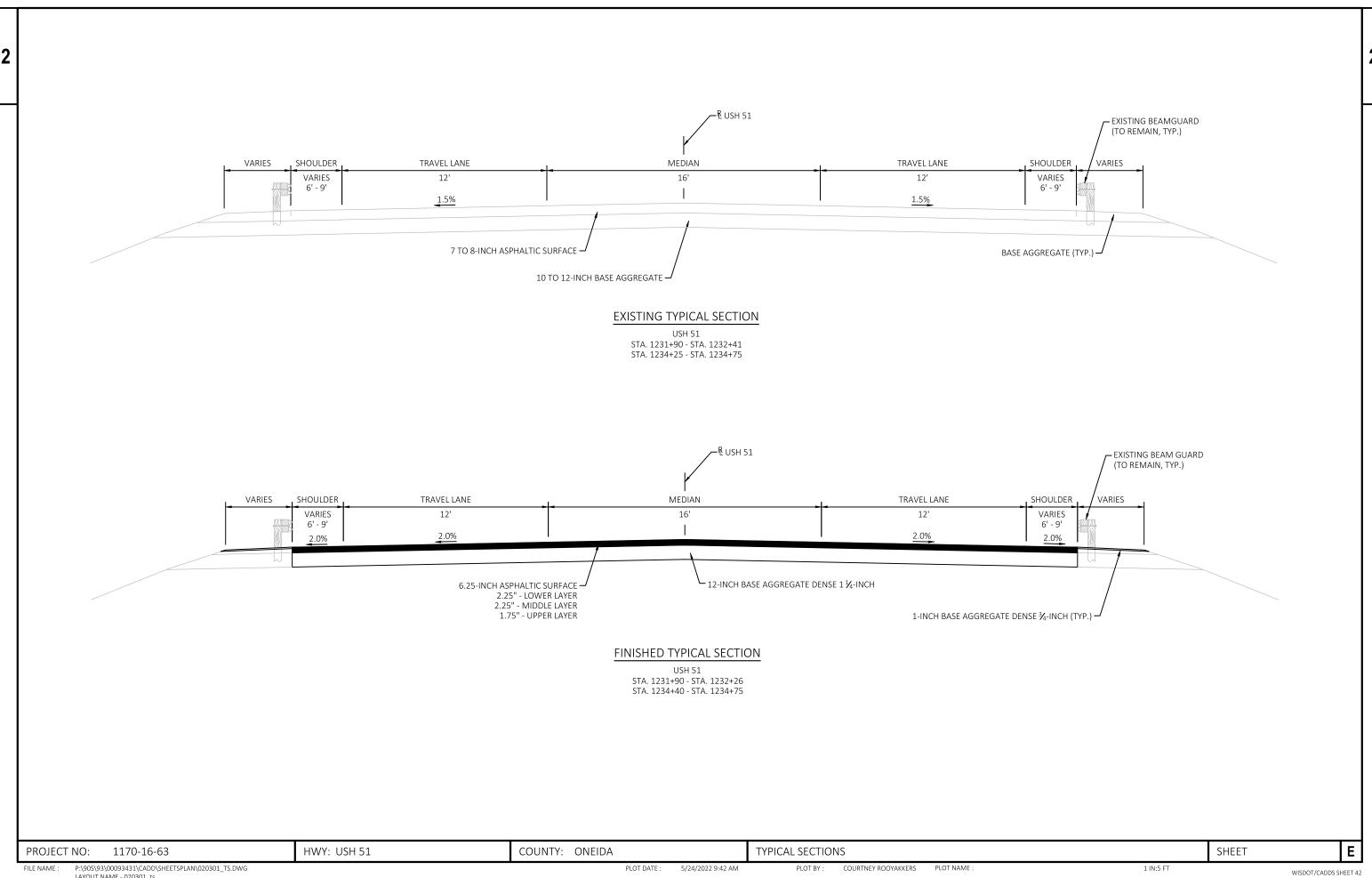
TOTAL PROJECT AREA = 1.08 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.13 ACRES

STANDARD ABBREVIATIONS

AC	ACRE	F/L	FLOW LINE	SALV	SALVAGED
AGG	AGGREGATE	FT	FOOT	SAN	SANITARY SEWER
<	ANGLE	GN	GRID NORTH	SECT	SECTION
ASPH	ASPHALTIC	HR	HANDICAP RAMP	SHLDR	SHOULDER
AC	ASPHALT CEMENT	HT	HEIGHT	SW	SIDEWALK
ADT	AVERAGE DAILY TRAFFIC	CWT	HUNDREDWEIGHT	S	SOUTH
B & B	BALLED AND BURLAPPED	HYD	HYDRANT	SB	SOUTHBOUND
BM	BENCH MARK	IN DIA	INCH DIAMETER	SPECS	SPECIFICATIONS
CB	CATCH BASIN	INL	INLET	SQ	SQUARE
`OR C/L	CENTER LINE	ID	INSIDE DIAMETER	SF OR SQ FT	SQUARE FEET
C-C	CENTER TO CENTER	1	INTERSECTION ANGLE	SY	SQUARE YARD
CONC	CONCRETE	IE	INVERT ELEVATION	SSPRC	STORM SEWER
CO	COUNTY	IP	IRON PIPE OR PIN		PIPE REINFORCED CONCRETE
CTH	COUNTY TRUNK HIGHWAY	JCT	JUNCTION	STD	STANDARD
CY	CUBIC YARD	L	LENGTH OF CURVE	SDD	STANDARD DETAIL DRAWINGS
CULV	CULVERT	LF	LINEAR FOOT	STH	STATE TRUNK HIGHWAYS
CP	CULVERT PIPE	LC	LONG CHORD OF CURVE	STA	STATION
CPRC	CULVERT PIPE	LCB	LONG CHORD BEARING	SS	STORM SEWER
	REINFORCED CONCRETE	LS	LUMP SUM		TANGENT
C & G	CURB AND GUTTER	MH	MANHOLE	TEL	TELEPHONE
D	DEGREE OF CURVE	N	NORTH	TEMP	TEMPORARY
DHV	DESIGN HOUR VOLUME	Y	NORTH GRID COORDINATE	TLE	TEMPORARY LIMITED EASEMENT
DIA OR	DIAMETER	OE	OUTLET ELEVATION	T	TON
DIST	DISTRICT	OL	OUT LOT	TC	TOP OF CURB
DWY	DRIVEWAY	OD	OUTSIDE DIAMETER	TN	TOWN
E	EAST	OH	OVERHEAD LINES	TRANS	TRANSITION
X	EAST GRID COORDINATE	PAVT	PAVEMENT	T	TRUCKS (percent of)
EB	EASTBOUND	PLE	PERMANENT LIMITED EASEMENT	TYP	TYPICAL
ELEC	ELECTRIC	PC	POINT OF CURVATURE	UNCL	UNCLASSIFIED
EL OR ELEV	ELEVATION	PI	POINT OF CORVATORE POINT OF INTERSECTION	USH	UNITED STATES HIGHWAY
EMB	EMBANKMENT	PT	POINT OF TANGENCY	VAR	VARIABLE
EW	ENDWALL	PCC	PORTLAND CEMENT CONCRETE	VERT	VERTICAL
ESALS	EQUIVALENT SINGLE	LB	POUND	VC	
LJALJ	AXLE LOADS	PF PF	PRIVATE ENTRANCE	VOL	VERTICAL CURVE
EXC	EXCAVATION	R OR RAD	RADIUS	WM	VOLUME
EBS	EXCAVATION BELOW	RR	RAILROAD	WV	WATER MAIN
LD3	SUBGRADE	R	RANGE	W	WATER VALVE
EXIST	EXISTING	~ OR R/L	REFERENCE LINE		WEST
EXP	EXPANSION	REQD	REQUIRED	WB	WESTBOUND
F-F	FACE TO FACE	REQD RT	RIGHT	YD	YARD
FERT	FERTILIZER	R/W	RIGHT-OF-WAY		
FEK I	FIELD ENTRANCE	RD RD	ROAD		
ΓĽ	LILLU ENTRANCE	ND	NOAD		

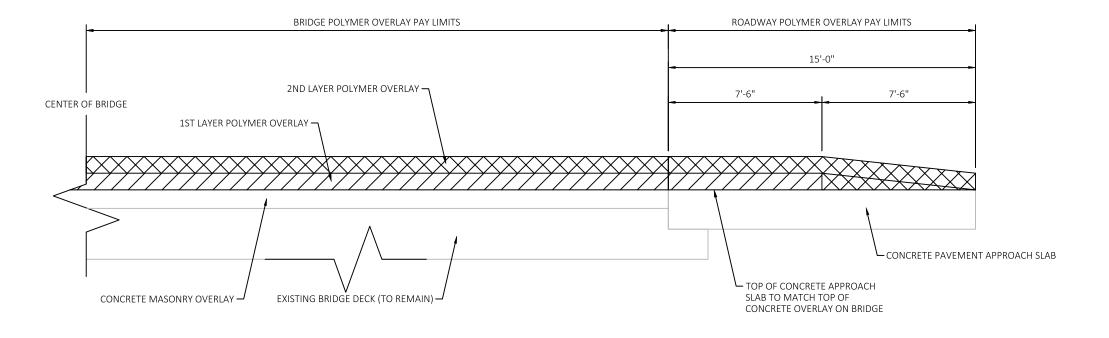
PROJECT NO: Ε 1170-16-63 HWY: USH 51 COUNTY: ONEIDA **GENERAL NOTES** SHEET P:\90S\93\00093431\CADD\SHEETSPLAN\020101_GN.DWG FILE NAME : PLOT DATE : 5/24/2022 9:28 AM PLOT BY: COURTNEY ROOYAKKERS PLOT NAME: PLOT SCALE : 1 IN:100 FT



2

l 2

WISDOT/CADDS SHEET 42



SECTION VIEW AT CENTERLINE POLYMER OVERLAY CONSTRUCTION DETAIL

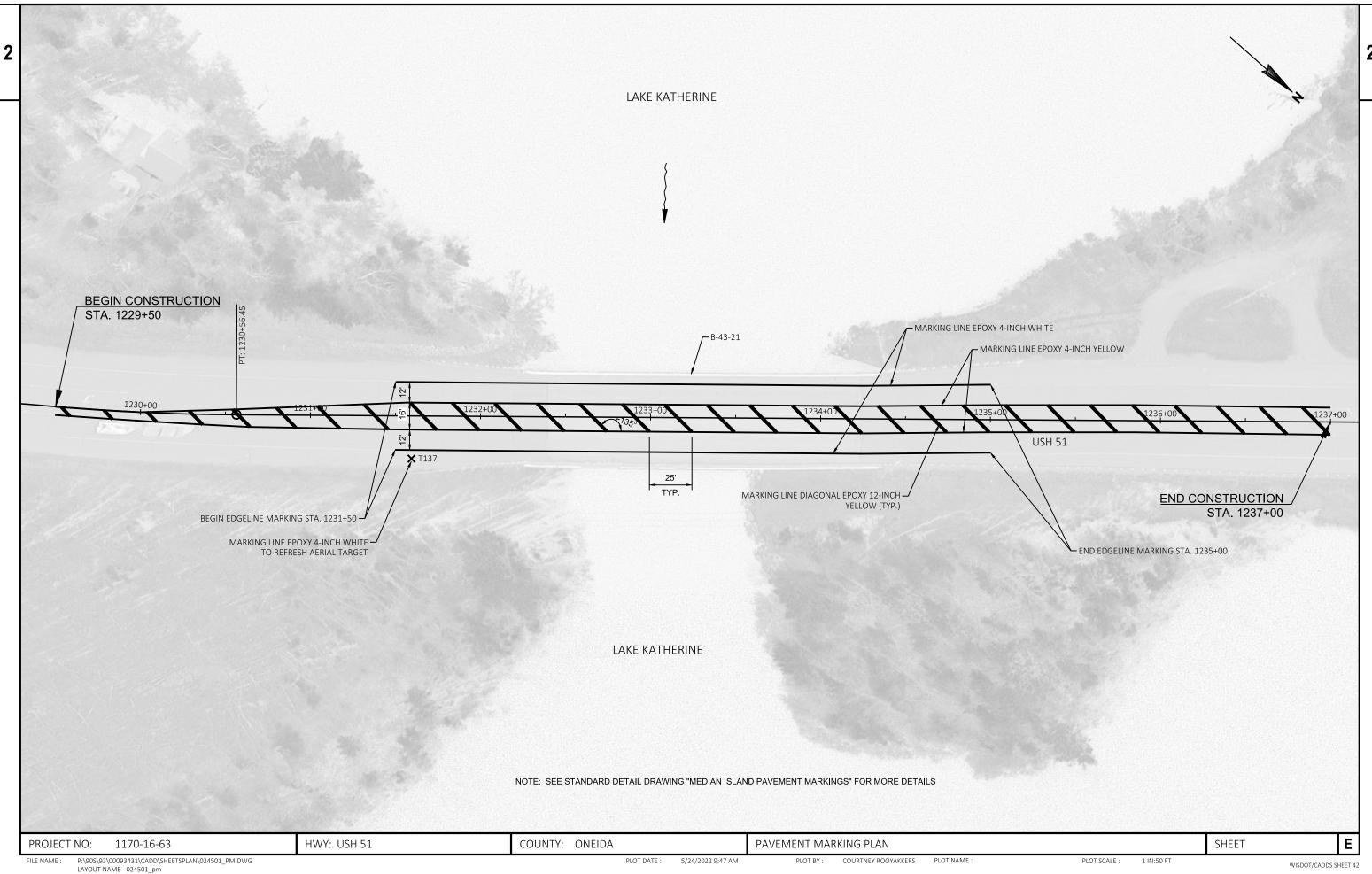
NOTES: SYMMETRICAL ABOUT CENTER OF BRIDGE SEE STRUCTURE PLANS FOR ADDITIONAL DETAILS

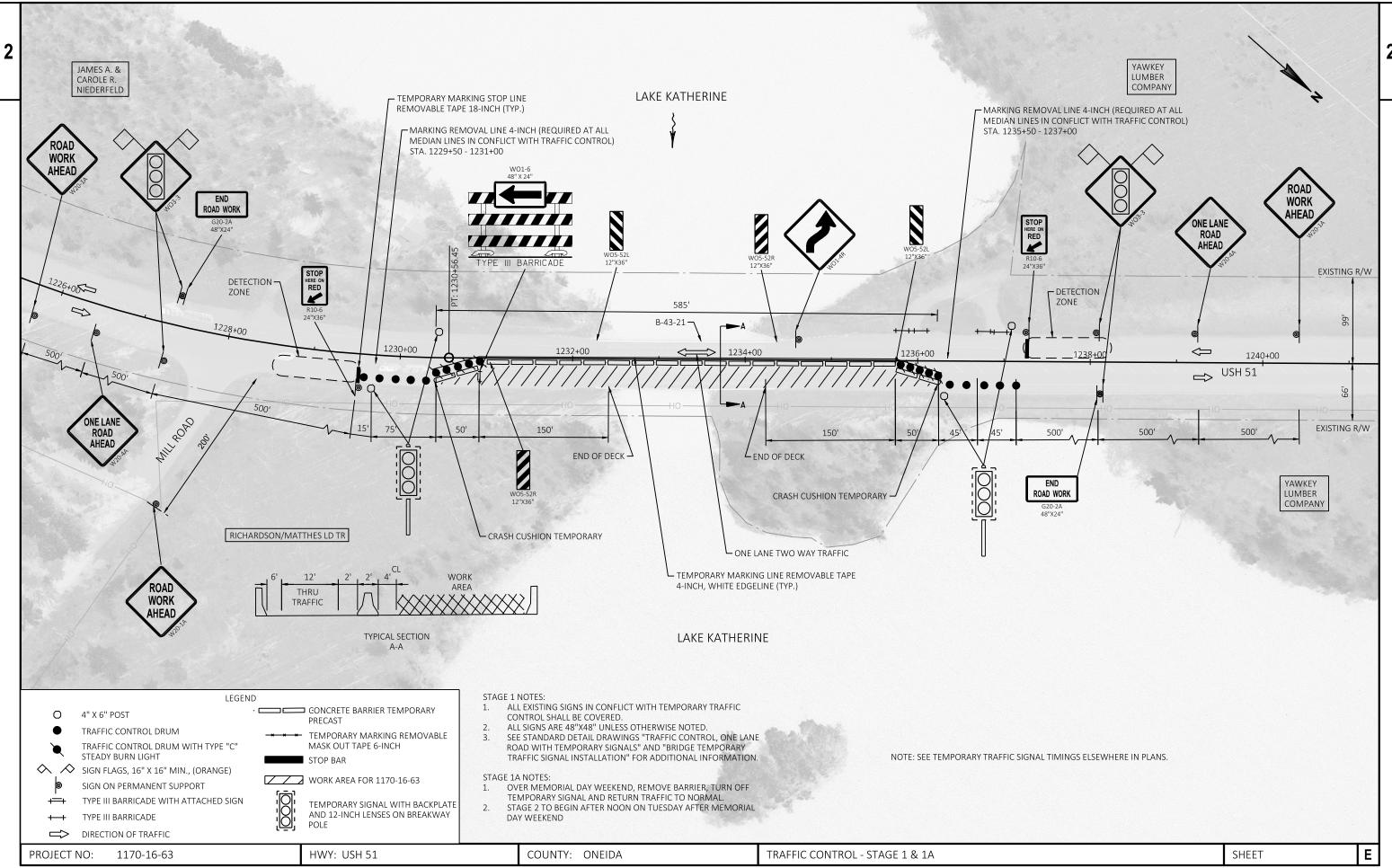
PROJECT NO: 1170-16-63 HWY: USH 51 COUNTY: ONEIDA CONSTRUCTION DETAIL SHEET **E**

LAYOUT NAME - 021001_cd

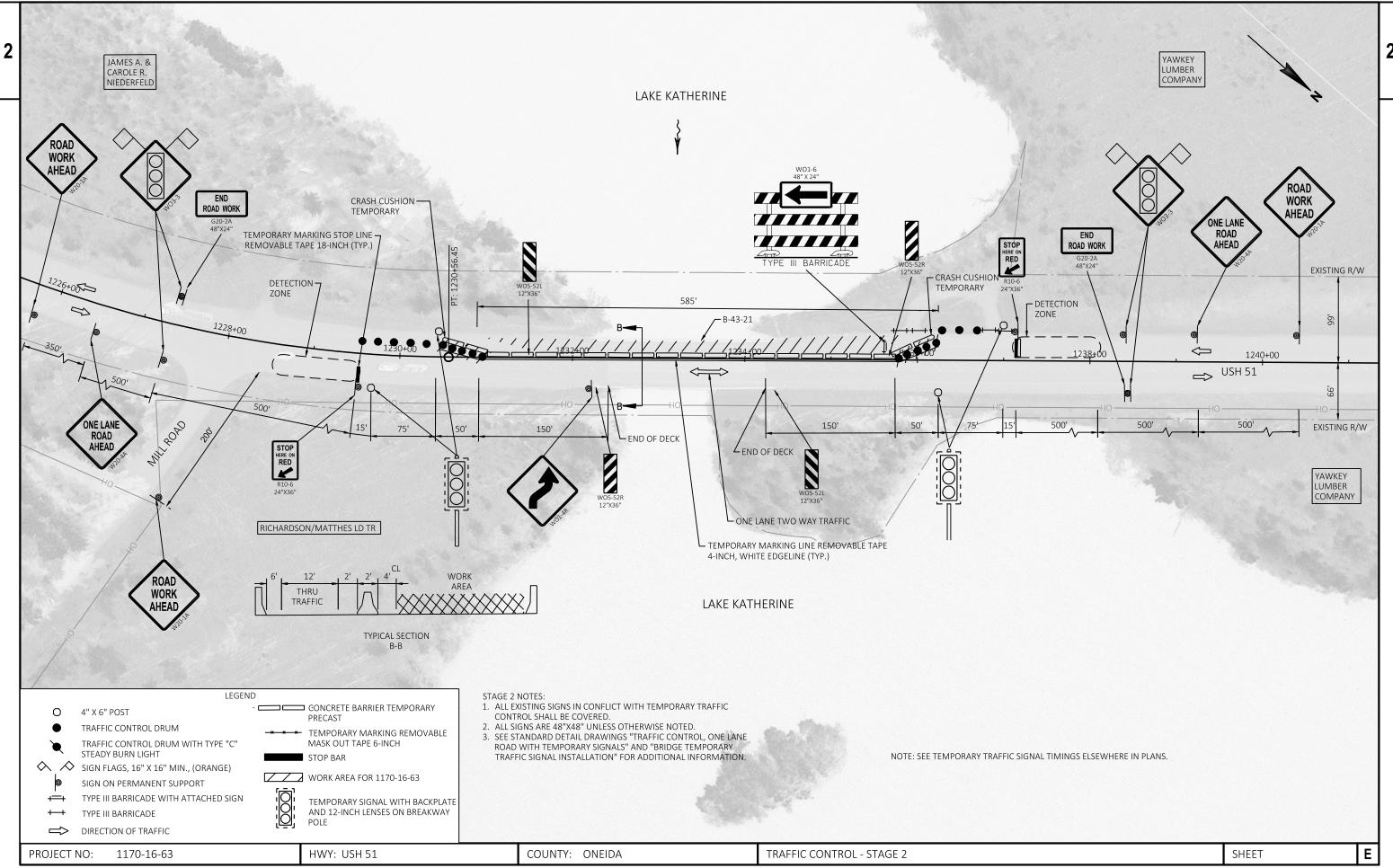
FILE NAME :

P:\90S\93\00093431\CADD\SHEETSPLAN\021001_CD.DWG





FILE NAME: PL90S/93/00093431/CADD/SHEETSPLAN/025001_TC B-43-21.DWG PLOT DATE: 5/24/2022 10:08 AM PLOT BY: COURTNEY ROOYAKKERS PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 025001_tc B-43-21 - Stage 1



FILE NAME: P\90\$\93\00093431\CADD\\$HEETSPLAN\025001_TC B-43-21.DWG PLOT DATE: 1/8/2019 2:53 PM PLOT BY: \$HAWN DOLENS PLOT NAME: 1 IN:100 FT WISDOT/CADDS SHEET 42 A COURT NAME - 025001_tc B-43-21 - Stage 2

	PRIMARY TEMPORARY SIGNAL TIMINGS (SEC.)					
PHASE 1	PHASE 2	PROGRAM TYPE				
USH 51 NB	USH 51 SB	PROGRAM TYPE				
15	15	IINIMUM GREEN TIME				
5	5	IAXIMUM PASSAGE TIME DURING GREEN PHASE				
3.5	3.5	MINIMUM PASSAGE TIME DURING GREEN PHASE				
20	20	START OF REDUCTION OF PASSAGE FROM MAX. TO MIN. DURING GREEN PHASE				
10	10	TIME TO REDUCE PASSAGE FROM MAX. TO MIN. DURING GREEN PHASE				
28	28	MAXIMUM GREEN TIME				
5	5	YELLOW				
22	22	ALL-RED				
NONE	NONE	RECALL MODE				

	FRIDAY 10 AM - 7 PM TEMPORARY SIGNAL TIMINGS (SEC.)						
PHASE 1	PHASE 2	PROGRAM TYPE					
USH 51 NB	USH 51 SB						
15	15	MINIMUM GREEN TIME					
5	5	MAXIMUM PASSAGE TIME DURING GREEN PHASE					
3.5	3.5	MINIMUM PASSAGE TIME DURING GREEN PHASE					
20	20	START OF REDUCTION OF PASSAGE FROM MAX. TO MIN. DURING GREEN PHASE					
10	10	TIME TO REDUCE PASSAGE FROM MAX. TO MIN. DURING GREEN PHASE					
41	25	MAXIMUM GREEN TIME					
5	5	YELLOW					
22	22	ALL-RED					
NONE	NONE	RECALL MODE					

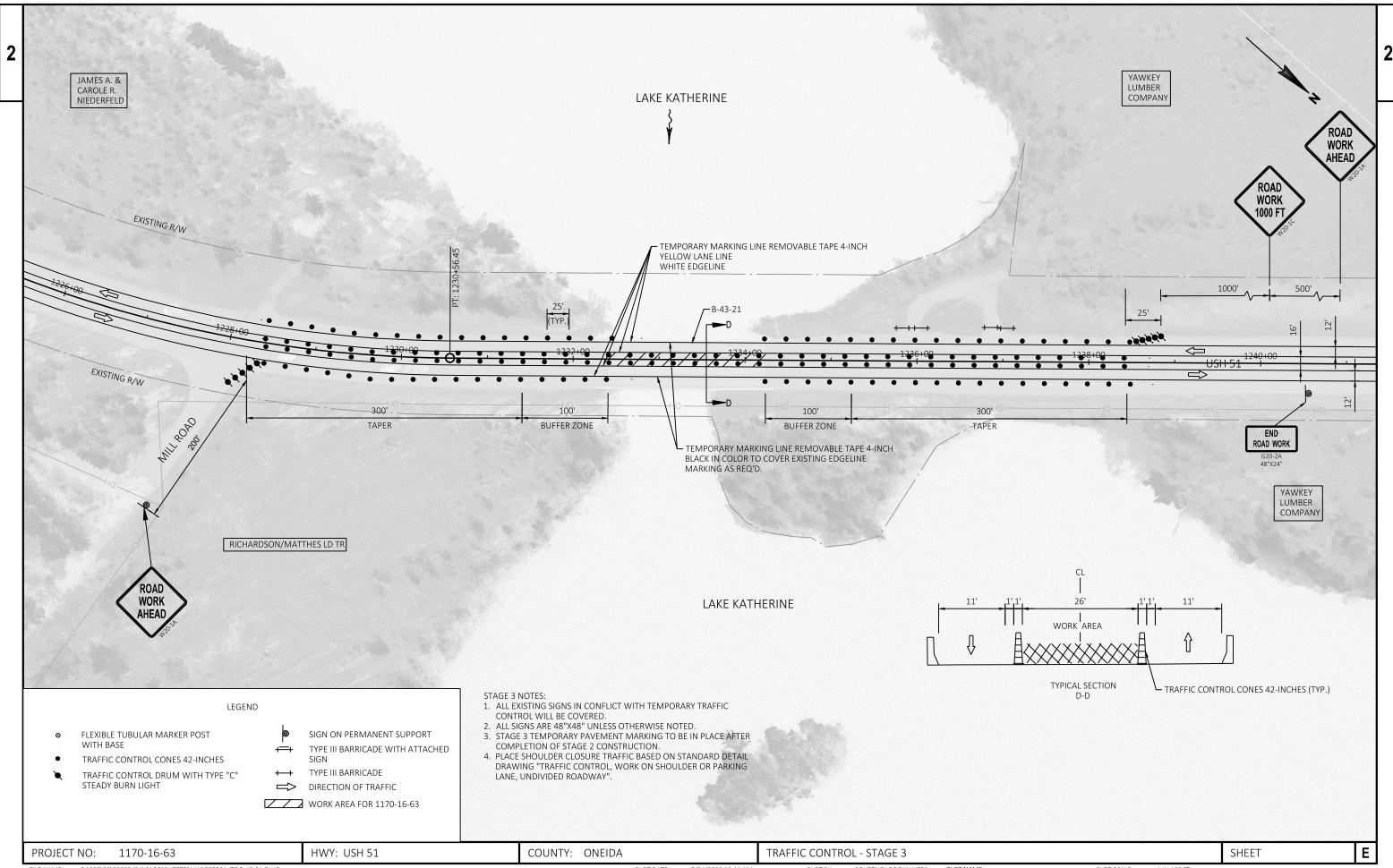
	SUNDAY 8 AM - 5 PM TEMPORARY SIGNAL TIMINGS (SEC.)					
PHASE 1	PHASE 2	PROGRAM TYPE				
USH 51 NB	USH 51 SB					
15	15	MINIMUM GREEN TIME				
5	5	5 MAXIMUM PASSAGE TIME DURING GREEN PHASE				
3.5	3.5	MINIMUM PASSAGE TIME DURING GREEN PHASE				
20	20	START OF REDUCTION OF PASSAGE FROM MAX. TO MIN. DURING GREEN PHASE				
10	10	TIME TO REDUCE PASSAGE FROM MAX. TO MIN. DURING GREEN PHASE				
21	45	MAXIMUM GREEN TIME				
5	5	YELLOW				
22	22	ALL-RED				
NONE	NONE	RECALL MODE				

NOTES

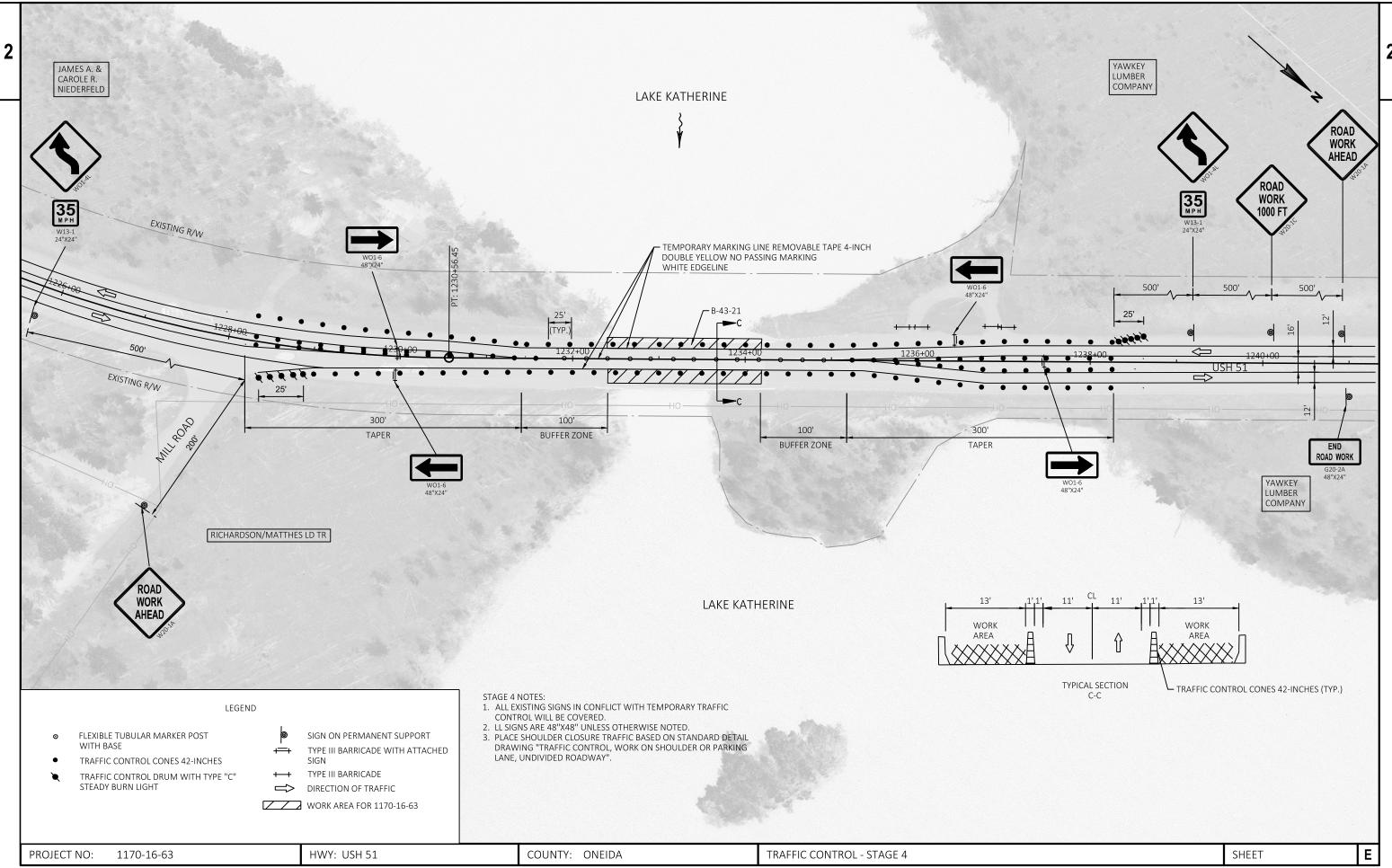
CONTRACTOR SHALL REVIEW SIGNALS AFTER PROGRAMMING TO ASSURE THERE ARE NOT CONFLICTING MOVEMENTS.

TIMINGS BASED ON 25 MPH AVERAGE WORK ZONE SPEED, THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT WITH TIMING ADJUSTMENTS IF SLOWER THAN AVERAGE SPEEDS ARE OBSERVED WITHIN THE SINGLE LANE WORKZONE.

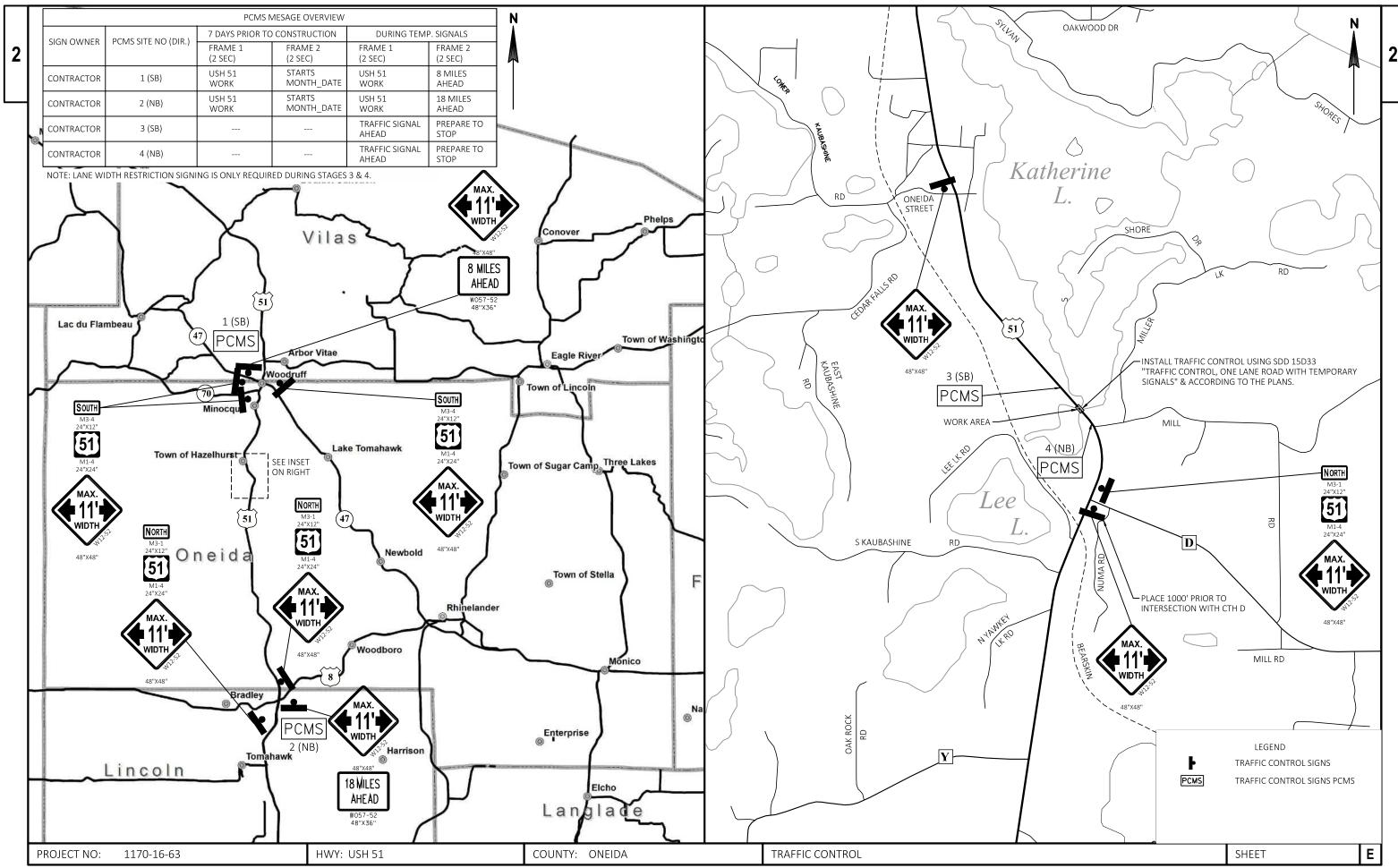
PROJECT NO: 1170-16-63 HWY: USH 51 COUNTY: ONEIDA TRAFFIC CONTROL - TEMPORARY TRAFFIC SIGNAL TIMINGS SHEET **E**



IAME: P:\90S\93\00093431\CADD\SHEETSPLAN\025001_TC B-43-21.DWG PLOT BY: COURTNEY ROOYAKKERS PLOT NAME: PLOT BY: COURTNEY ROOYAKKERS PLOT NAME: 1 IN:100 FT WISDOT/CADDS SHEET 42 A/YOUT NAME - 025001_tc B-43-21 - Stage 3



LE NAME : P:\90S\93\00093431\CADD\SHEETSPLAN\025001_TC B-43-21.DWG PLOT BY: COURTNEY ROOYAKKERS PLOT NAME : PIOT BY: COURTNEY ROOYAKKERS PLOT NAME : 1 IN:100 FT WISDOT/CADDS SHEET 42 AYOUT NAME - 025001_TC B-43-21 - Stage 4



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					1170-16-63	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0335	Debris Containment Over Waterway (structure) 01. B-43-21	EACH	1.000	1.000	
0004	204.0100	Removing Concrete Pavement	SY	174.000	174.000	
0006	205.0100	Excavation Common	CY	338.000	338.000	
8000	213.0100	Finishing Roadway (project) 01. 1170-16-63	EACH	1.000	1.000	
0010	305.0110	Base Aggregate Dense 3/4-Inch	TON	4.000	4.000	
0012	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	350.000	350.000	
0014	415.0410	Concrete Pavement Approach Slab	SY	174.000	174.000	
0016	455.0605	Tack Coat	GAL	46.000	46.000	
0018	465.0105	Asphaltic Surface	TON	170.000	170.000	
0020	502.3205	Pigmented Surface Sealer Reseal	SY	181.000	181.000	
0022	509.0301	Preparation Decks Type 1	SY	53.000	53.000	
0024	509.0302	Preparation Decks Type 2	SY	21.000	21.000	
0026		Cleaning Decks to Reapply Concrete Masonry Overlay	SY	1,061.000	1,061.000	
0028	509.1500	Concrete Surface Repair	SF	500.000	500.000	
0030	509.2000	Full-Depth Deck Repair	SY	1.000	1.000	
0032	509.2500	Concrete Masonry Overlay Decks	CY	81.000	81.000	
0034		Polymer Overlay	SY	1,235.000	1,235.000	
0036		Removing Concrete Masonry Deck Overlay (structure) 01. B-43-21	SY	1,061.000	1,061.000	
0038		Epoxy Crack Sealing	LF	20.000	20.000	
0040	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,200.000	1,200.000	
0040	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,200.000	1,200.000	
0042	614.0905	Crash Cushions Temporary	EACH	2.000	2.000	
0044	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1170-16-63	EACH	1.000	1.000	
	619.1000	Mobilization	EACH	1.000	1.000	
0048 0050	624.0100			10.000	10.000	
0050		Water Silt Fence	MGAL	225.000	225.000	
	628.1504		LF			
0054	628.1520	Silt Fence Maintenance	LF	225.000	225.000	
0056	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0060	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000	
0062	638.2102	Moving Signs Type II	EACH	6.000	6.000	
0064	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0066	642.5001	Field Office Type B	EACH	1.000	1.000	
0068	643.0300	Traffic Control Drums	DAY	2,870.000	2,870.000	
0070	643.0420	Traffic Control Barricades Type III	DAY	410.000	410.000	
0072	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	15.000	15.000	
0074	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	15.000	15.000	
0076	643.0715	Traffic Control Warning Lights Type C	DAY	700.000	700.000	
0078	643.0900	Traffic Control Signs	DAY	1,470.000	1,470.000	
0800	643.0920	Traffic Control Covering Signs Type II	EACH	4.000	4.000	
0082	643.1050	Traffic Control Signs PCMS	DAY	108.000	108.000	
0084	643.1070	Traffic Control Cones 42-Inch	DAY	3,200.000	3,200.000	
0086	643.5000	Traffic Control	EACH	1.000	1.000	
8800	646.1020	Marking Line Epoxy 4-Inch	LF	2,708.000	2,708.000	
0090	646.7120	Marking Diagonal Epoxy 12-Inch	LF	760.000	760.000	
0092	646.9000	Marking Removal Line 4-Inch	LF	2,000.000	2,000.000	
0094	646.9200	Marking Removal Line Wide	LF	760.000	760.000	
0096	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	10,520.000	10,520.000	
0098	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	48.000	48.000	

1170-16-63	
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Line	Item	Item Description	Unit	Total	Qty
0100	649.0960	Temporary Marking Removable Mask Out Tape 6-Inch	LF	1,430.000	1,430.000
0102	649.0970	Temporary Marking Removable Mask Out Tape 10-Inch	LF	150.000	150.000
0104	650.4500	Construction Staking Subgrade	LF	101.000	101.000
0106	650.5000	Construction Staking Base	LF	101.000	101.000
0108	650.6500	Construction Staking Structure Layout (structure) 01. B-43-21	LS	1.000	1.000
0110	650.9910	Construction Staking Supplemental Control (project) 01. 1170-16-63	LS	1.000	1.000
0112	661.0100	Temporary Traffic Signals for Bridges (structure) 01. B-43-21	LS	1.000	1.000
0114	690.0150	Sawing Asphalt	LF	217.000	217.000
0116	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0118	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 1233+33.06	EACH	1.000	1.000
0120	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	150.000	150.000
0122	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0124	SPV.0060	Special 01. Temporary Vehicle Detection Bridge B-43-21	EACH	1.000	1.000
0126	SPV.0165	Special 01. Fiber Wrap Reinforcing Non-Structural	SF	10.000	10.000

	REMOVING PAVEMEN	Т
		204.0100
		REMOVING
		PAVEMENT
CATEGORY	STATION	SY
0010	1232+26 - 1232+41	87
0010	1234+25 - 1234+40	87
TC	174	

	EXCAVATION	
		205.0100
		EXCAVATION
		COMMON
CATEGORY	STATION	CY
0010	1231+90 - 1232+26	120
0010	1232+26 - 1232+41	54
0010	1234+25 - 1234+40	54
0010	1234+40 - 1234+75	110
TO	OTAL 0010	338

BASE AGGREGATE							
			305.0110	305.0120	624.0100		
			BASE	BASE	WATER		
			AGGREGATE	AGGREGATE			
			DENSE 3/4-INCH	DENSE 1 1/4-INCH			
	CATEGORY	STATION	TON	TON	MGAL		
	0010	1231+90 - 1232+41	2	180	5		
	0010	1234+25 - 1234+75	2	170	5		
		TOTAL 0010	4	350	10		

CONCRETE PAVEMENT							
•		415.0410					
		CONCRETE					
		PAVEMENT					
		APPROACH SLAB					
CATEGORY	STATION	SY					
0010	1232+26 - 1232+41	87					
0010	1234+25 - 1234+40	87					
TO	TOTALS 0010 174						

	ASPHAL ⁻	TITEMS	
		455.0605	465.0105
			ASPHALTIC
		TACK COAT	SURFACE
CATEGORY	STATION	GAL	TON
0010	1231+90 - 1232+26	24	90
0010	1234+40 - 1234+75	22	80
-	TOTALS 0010	46	170

		OVERLAY*
CATEGORY	STATION	SY
0010	1232+26 - 1232+41	87
0010	1234+25 - 1234+40	87
	TOTAL 0010	174

POLYMER OVERLAY

509.5100.S POLYMER

	(CONCRETE BARRIER	
		603.8000	603.8125
		CONCRETE BARRIER	CONCRETE BARRIER
		TEMPORARY	TEMPORARY
		PRECAST	PRECAST
		DELIVERED**	INSTALLED
CATEGORY	STAGE	LF	LF
0010	STAGE 1	600	600
0010	STAGE 2	600	600
	TOTALS 0010	1200	1200

₹			

	SILTFENCE		
		628.1504	628.1520
		SILT	SILT FENCE
		FENCE	MAINTENANCE
CATEGORY	LOCATION	LF	LF
0010	1231+90 - 1232+41, LT	50	50
0010	1231+90 - 1232+41, RT	50	50
0010	1234+25 - 1234+75, LT	50	50
0010	1234+25 - 1234+75, RT	50	50
0010	UNDISTRIBUTED	25	25
	TOTALS 0010	225	225

	MOBILIZATION	EROSION CONTROL	-
		628.1905	628.1910
		MOBILIZATION	MOBILIZATION
		EROSION	EMERGENCY
		CONTROL	EROSION CONTROL
CATEGORY	DESCRIPTION	EACH	EACH
0010	PROJECT 1170-16-63	2	2
	TOTALS 0010	2	2

PLOT NAME :

PLOT BY: SHAWN DOLENS

Ε PROJECT NO: 1170-16-63 HWY: USH 51 COUNTY: ONEIDA MISCELLANEOUS QUANTITIES SHEET

10/19/2018 11:24 AM

^{* -} ADDITIONAL QUANTITY IS INCLUDED WITH STRUCTURE PLANS B-43-21

CRASH CUSHIONS 614.0905 CRASH CUSHIONS TEMPORARY* CRASH BACK OBJECT CRASH WIDTH MARKING TEST TRAFFIC TRAFFIC CUSHION EACH CATEGORY STAGE FT PATTERN LEVEL DIRECTION LOCATION SHIELDS 0010 STAGE 1 2 OM-3R TL-3 UNIDIRECTIONAL WORK ZONE STAGE 2 OM-3L TL-3 UNIDIRECTIONAL WORK ZONE TOTAL 0010

^{** -} BARRIER WILL NEED TO BE REMOVED DURING THE MEMORIAL DAY HOLIDAY.

^{* -} STAGE 1 CRASH CUSHIONS TEMPORARY WILL BE REUSED DURING STAGE 2.

		SIC	GNING ITEMS	3		
		634.0614	638.2102	638.3000	643.0920	
		POSTS	MOVING	REMOVING	TRAFFIC CONTROL	
		WOOD	SIGNS	SMALL SIGN	COVERING SIGNS	
		4X6-INCH X 14-FT	TYPE II	SUPPORTS	TYPE II	
CATEGORY	LOCATION	EACH	EACH	EACH	EACH	REMARKS
0010	1232+27 RT	1	2	1		W5-52R & R9-56
0010	1232+27 LT	1	1	1		W5-52L
0010	1234+35 RT	1	1	1		W5-52L
0010	1234+35 LT	1	2	1		W5-52R & R9-56
0010	UNDISTRIBUTED				4	
	TOTALS 0010	4	6	4	4	

	CONSTRUCTION STAKING										
		650.4500	650.5000	650.9910.01							
		CONSTRUCTION	CONSTRUCTION	CONSTRUCTION							
		STAKING	STAKING	STAKING							
		SUBGRADE	BASE	SUPPLEMENTAL							
				CONTROL							
CATEGORY	STATION	LF	LF	LS							
0010	1231+90 - 1232+26	36	36								
0010	1232+26 - 1232+41	15	15								
0010	1234+25 - 1234+40	15	15								
0010	1234+40 - 1234+75	35	35								
0010	PROJECT 1170-16-63			1							
T	OTALS 0010	101	101	1							

								TRA	FFIC CONTROL								
				643.0300	643.0500	643.0600		643.1070		643.0420		643.0715		643.0900		643.1050	643.5000
			TRAFFIC	TRAFFIC	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC	TRAFFIC	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC
			CONTROL	CONTROL	FLEXIBLE TUBULAR	FLEXIBLE TUBULAR	CONTROL	CONTROL	BARRICADES	BARRICADES	WARNING LIGHTS	WARNING LIGHTS	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
			DRUMS	DRUMS	MARKER POSTS	MARKER BASES	CONES 42-INCH	I CONES 42-INCH	TYPE III	TYPE III	TYPE C	TYPE C	SIGNS	SIGNS	SIGNS PCMS	SIGNS PCMS	
CATEGORY	STAGE	DAYS	EACH	DAYS	EACH	EACH	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH
0010	7 DAYS PRIOR	7	10	70											2	28	
0010	STAGE 1	25	25	625					5	125	10	250	17	425			
0010	STAGE 2	25	25	625					5	125	10	250	17	425			
0010	STAGE 3	10	125	1,250			160	1,600	8	80	10	100	27	270	4	40	
0010	STAGE 4	10	30	300	15	15	160	1,600	8	80	10	100	35	350	4	40	
PROJEC [*]	T 1170-16-63																1
T	TOTALS 0010			2,870	15	15		3,200		410		700		1,470		108	1

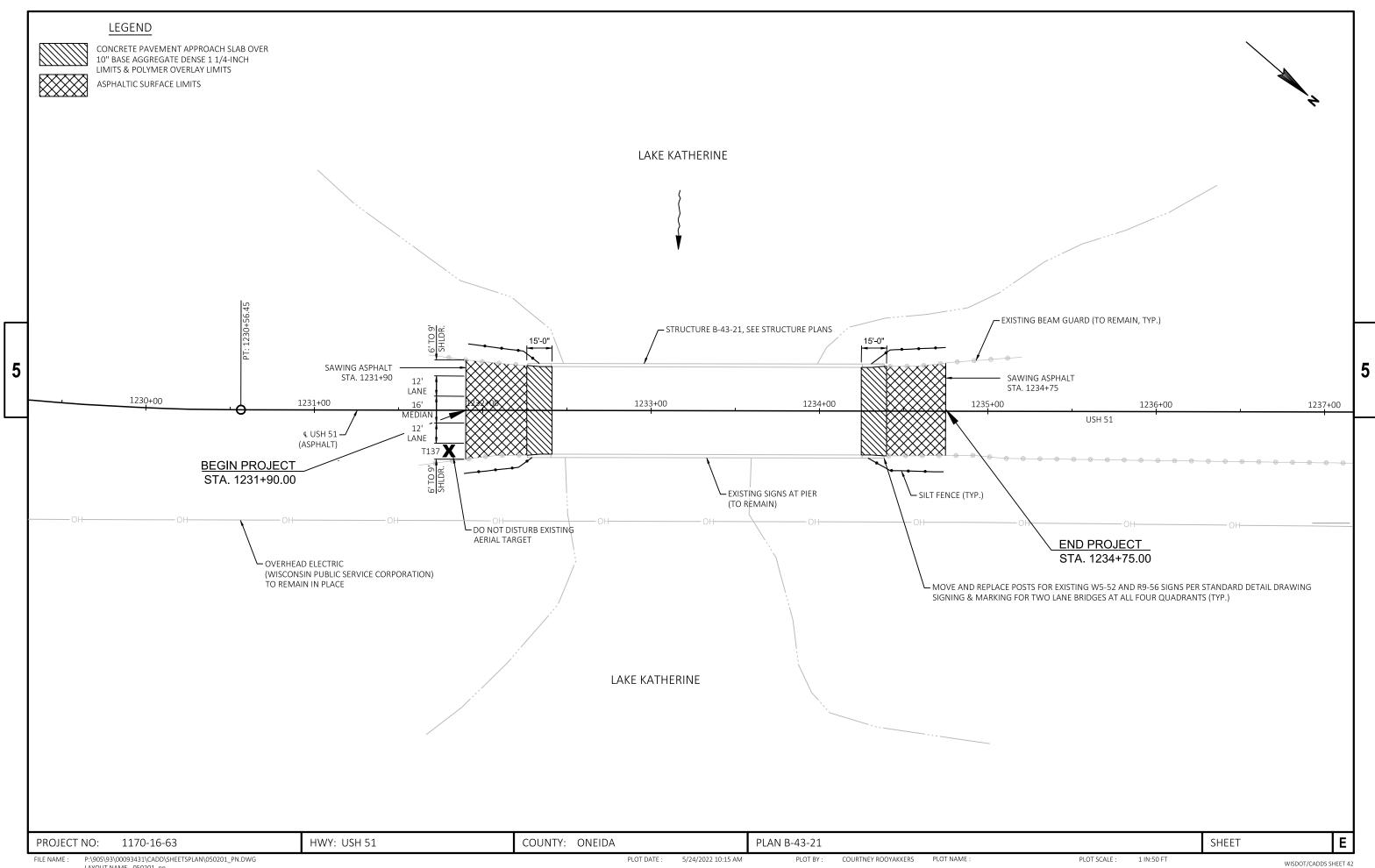
		PAVEMENT MARKING	38		
			5.1020	646.7120	
			MAI	RKING	MARKING
			LINE	EPOXY	DIAGONAL
			4-1	NCH	EPOXY 12-INCH
			WHITE	YELLOW	YELLOW
CATEGORY	STATION	LOCATION	LF	LF	LF
0010	1231+50 - 1235+00	EDGE LINES	700		
0010	1231+60	AERIAL TARGET	8		
0010	1228+50 - 1238+50	MEDIAN EDGE LINES		2,000	
0010	1228+50 - 1238+50	MEDIAN			760
	TOTALS 001	0	2,	708	760

		0.10.0000	-		VEMENT MARKI		040.0000	0.10.0070
		646.9000	646.9200		.0150	649.0850	649.0960	649.0970
		MARKING	MARKING	TEMP	ORARY	TEMPORARY	TEMPORARY	TEMPORARY
		REMOVAL	REMOVAL	MARKI	NG LINE	MARKING STOP	MARKING	MARKING
		LINE	LINE	REMOVA	BLE TAPE	LINE REMOVABLE	REMOVABLE MASK	REMOVABLE MAS
		4-INCH	WIDE	4-1	NCH	TAPE 18-INCH	OUT TAPE 6-INCH	OUT TAPE 10-INC
				WHITE	YELLOW			
CATEGORY	STAGE	LF	LF	LF	LF	LF	LF	LF
0010	STAGE 1	2,000	760	540	450	24		
0010	STAGE 2			540		24		
0010	STAGE 3			2,120	2,120		1,430	
0010	STAGE 4			2,120	2,120			
0010	UNDISTRIBUTED			270	240			150
	TOTALS 0010	2,000	760	10	,520	48	1,430	150

TEMPORARY TRAFFIC SIGNALS		
		661.0100.01
		FOR BRIDGES
		B-43-21
CATEGORY	PROJECT	LS
0010	1170-16-63	1
	TOTAL 0010	1

	SAWING	
		690.0150
		SAWING
		ASPHALT
CATEGORY	STATION	LF
0010	1231+90	58
0010	1234+75	58
0010	1231+90 - 1232+41	51
0010	1234+25 - 1234+75	50
	TOTAL 0010	217

HWY: USH 51 COUNTY: ONEIDA SHEET Ε MISCELLANEOUS QUANTITIES PROJECT NO: 1170-16-63 FILE NAME: P:\90\$\93\00093431\CADD\SHEETSOTHER\030201_MQ.DWG LAYOUT NAME - 030201_mg PLOT DATE: 10/19/2018 11:24 AM PLOT BY: SHAWN DOLENS PLOT NAME:



LAYOUT NAME - 050201_pn

Standard Detail Drawing List

08E09-06	SILT FENCE
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-08	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-05A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D33-07	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

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

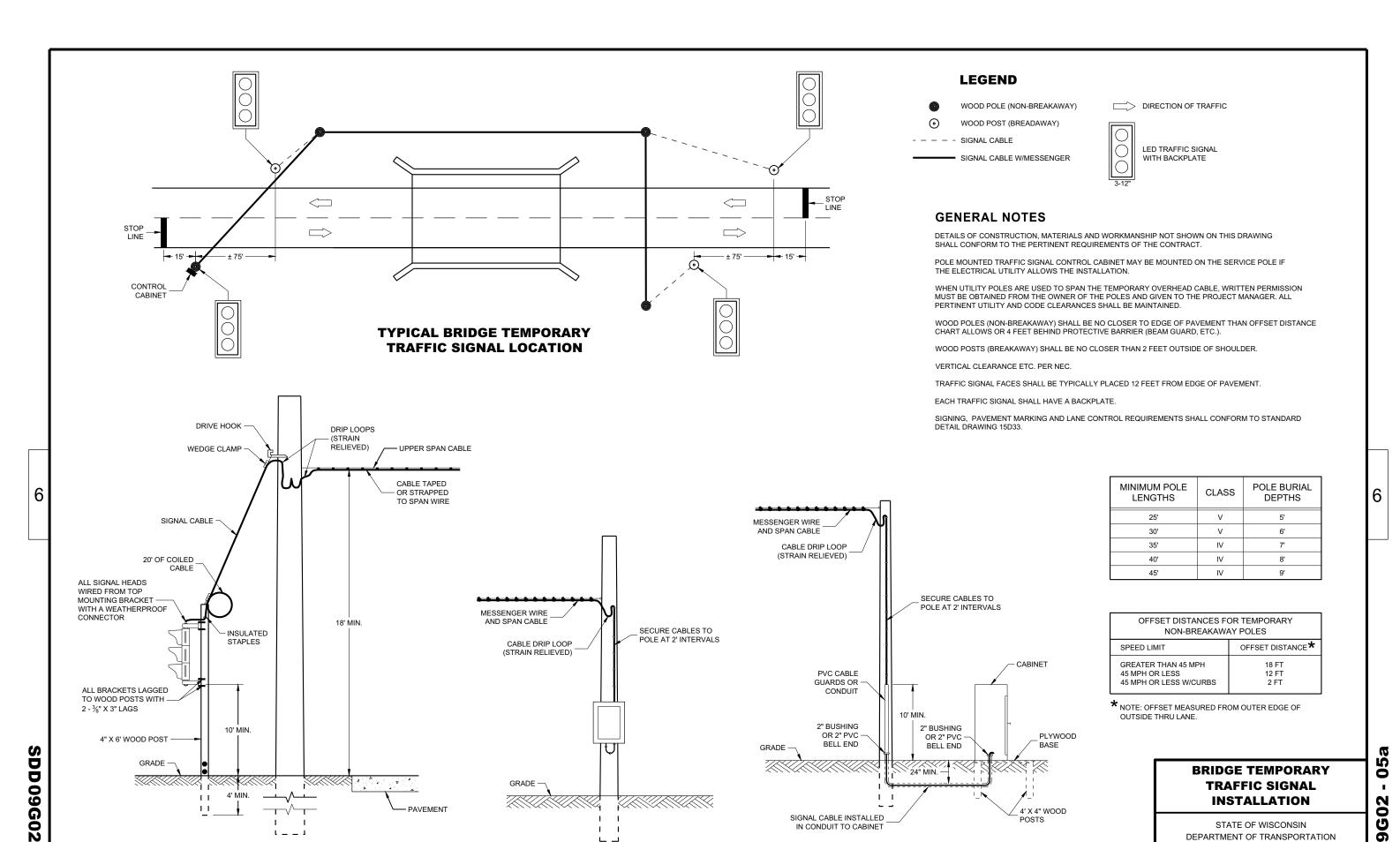
(WHEN REQUIRED BY THE ENGINEER)



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POLE MOUNT

CABINET INSTALLATION

GRADE

- PAVEMENT

4' MIN.

TYPICAL DROP TO

TRAFFIC SIGNAL FACE

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March 2018

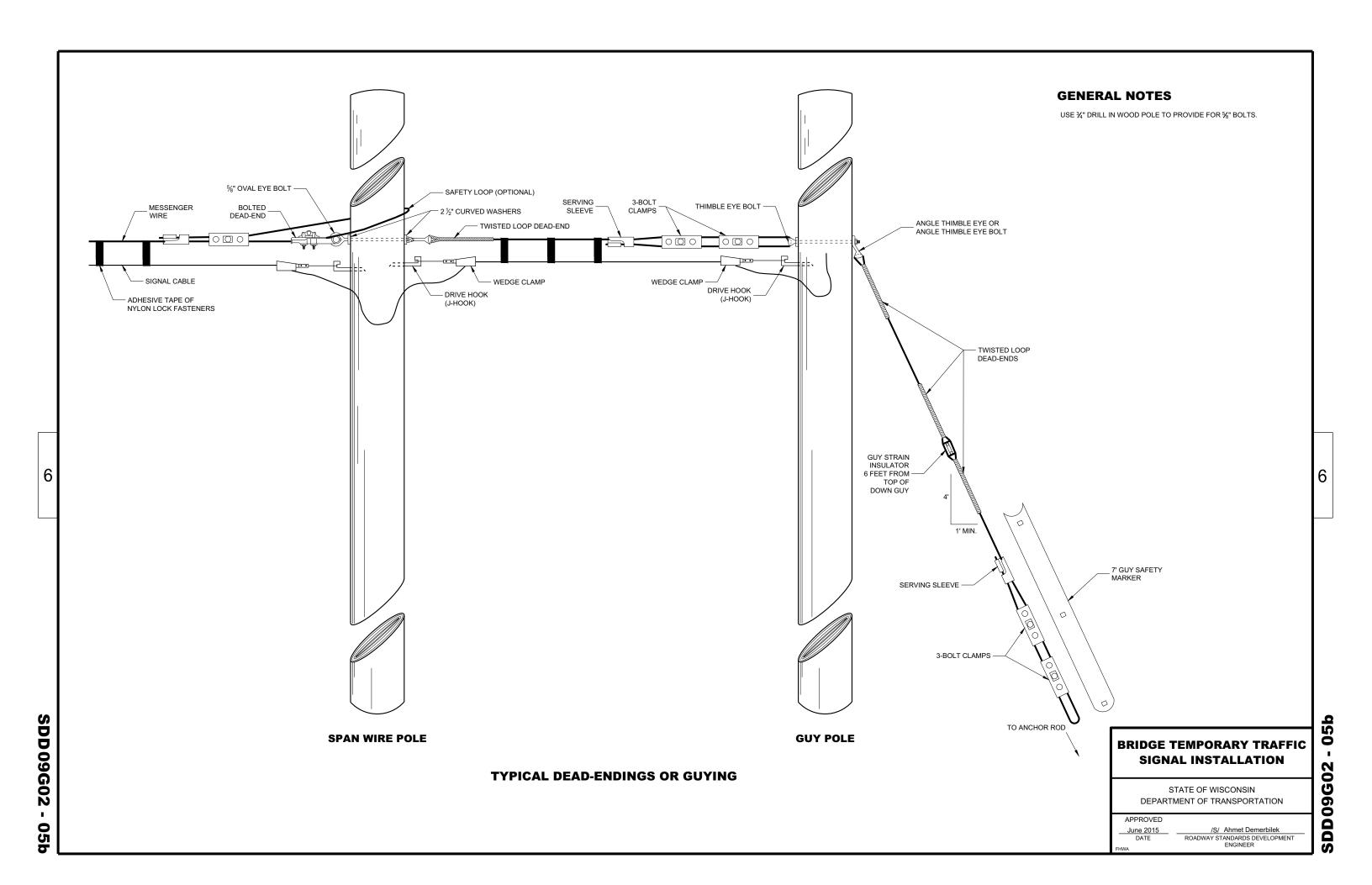
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

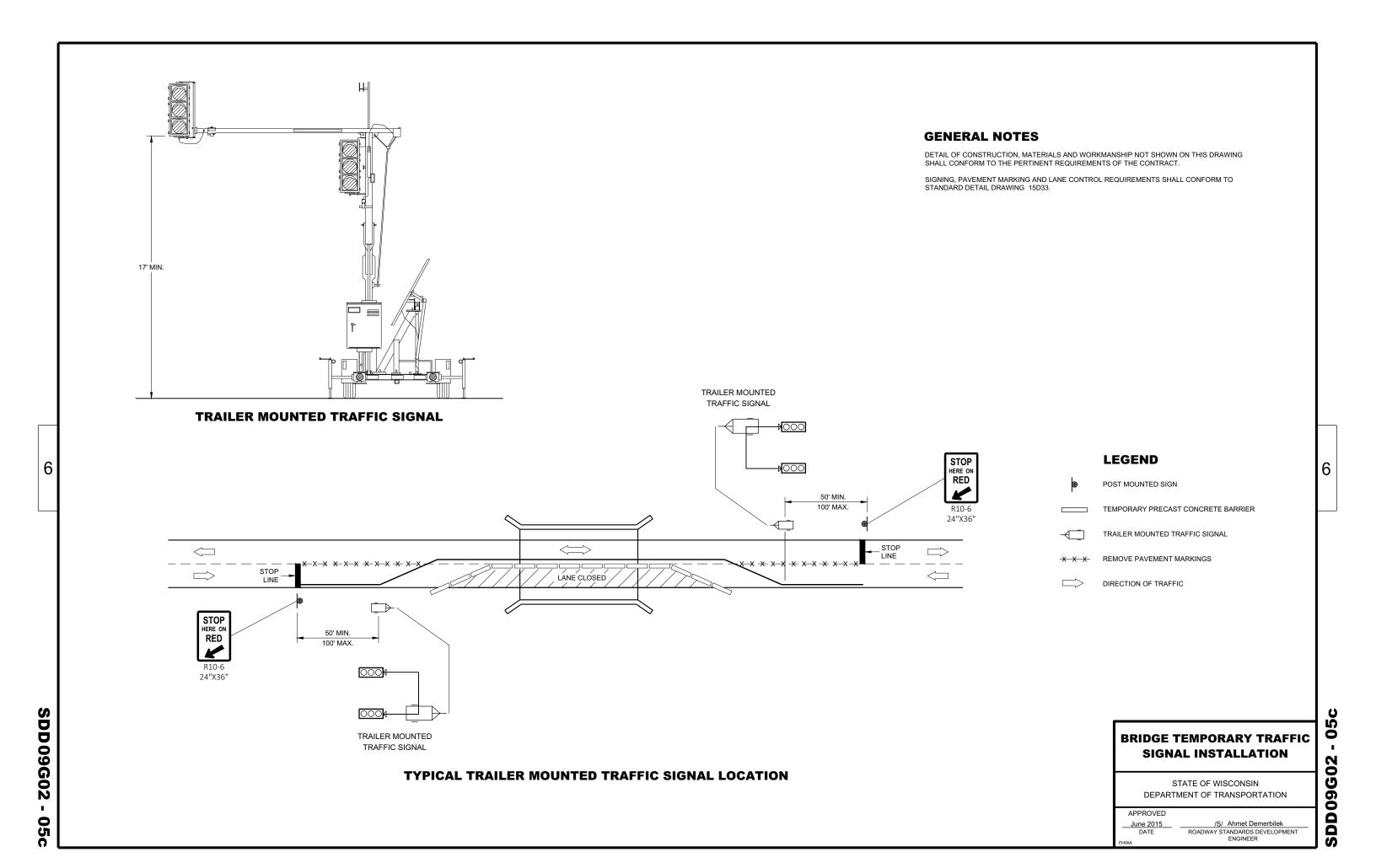
GROUND MOUNT CABINET INSTALLATION

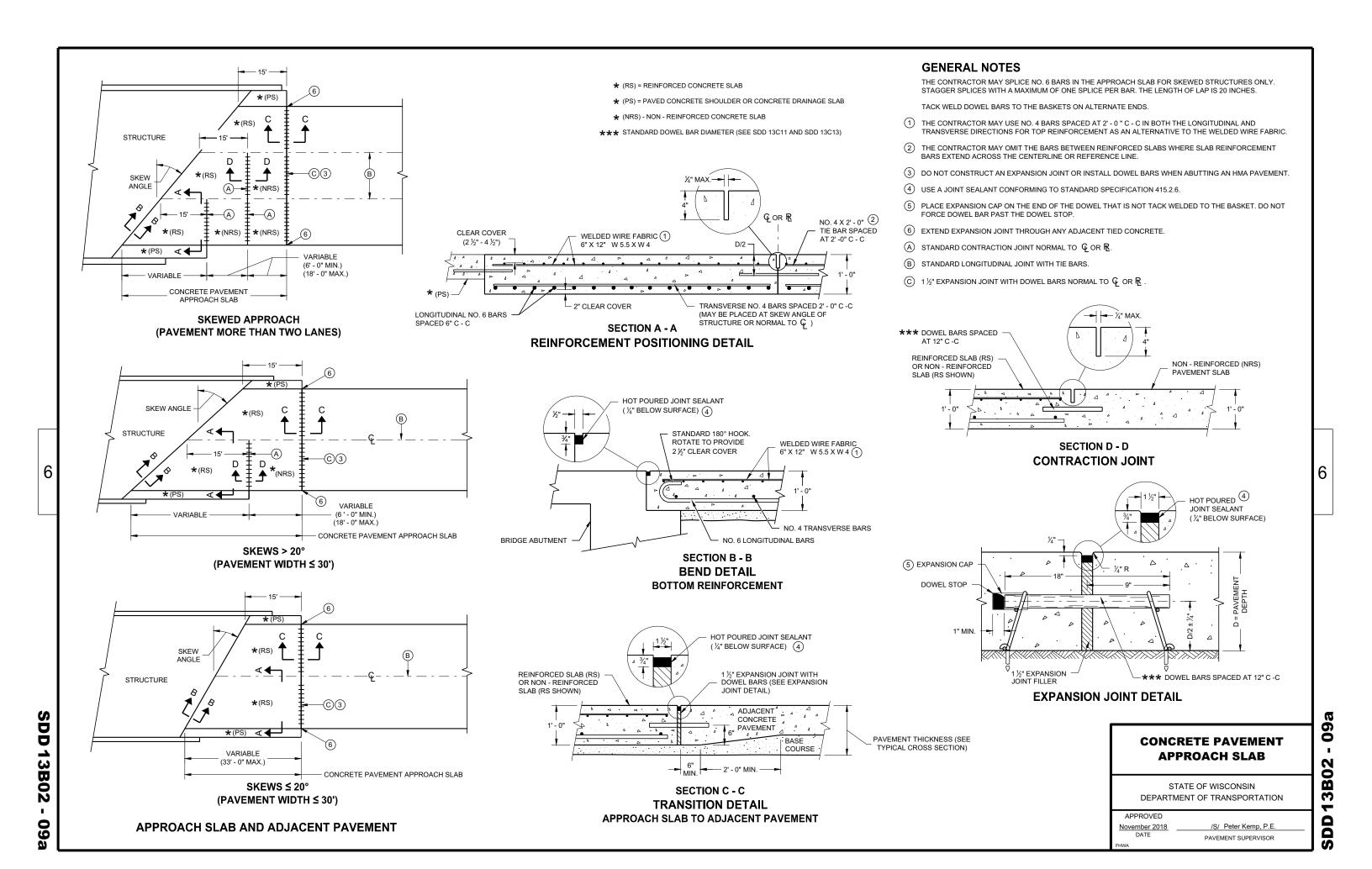
SIGNAL CABLE INSTALLED IN CONDUIT TO CABINET

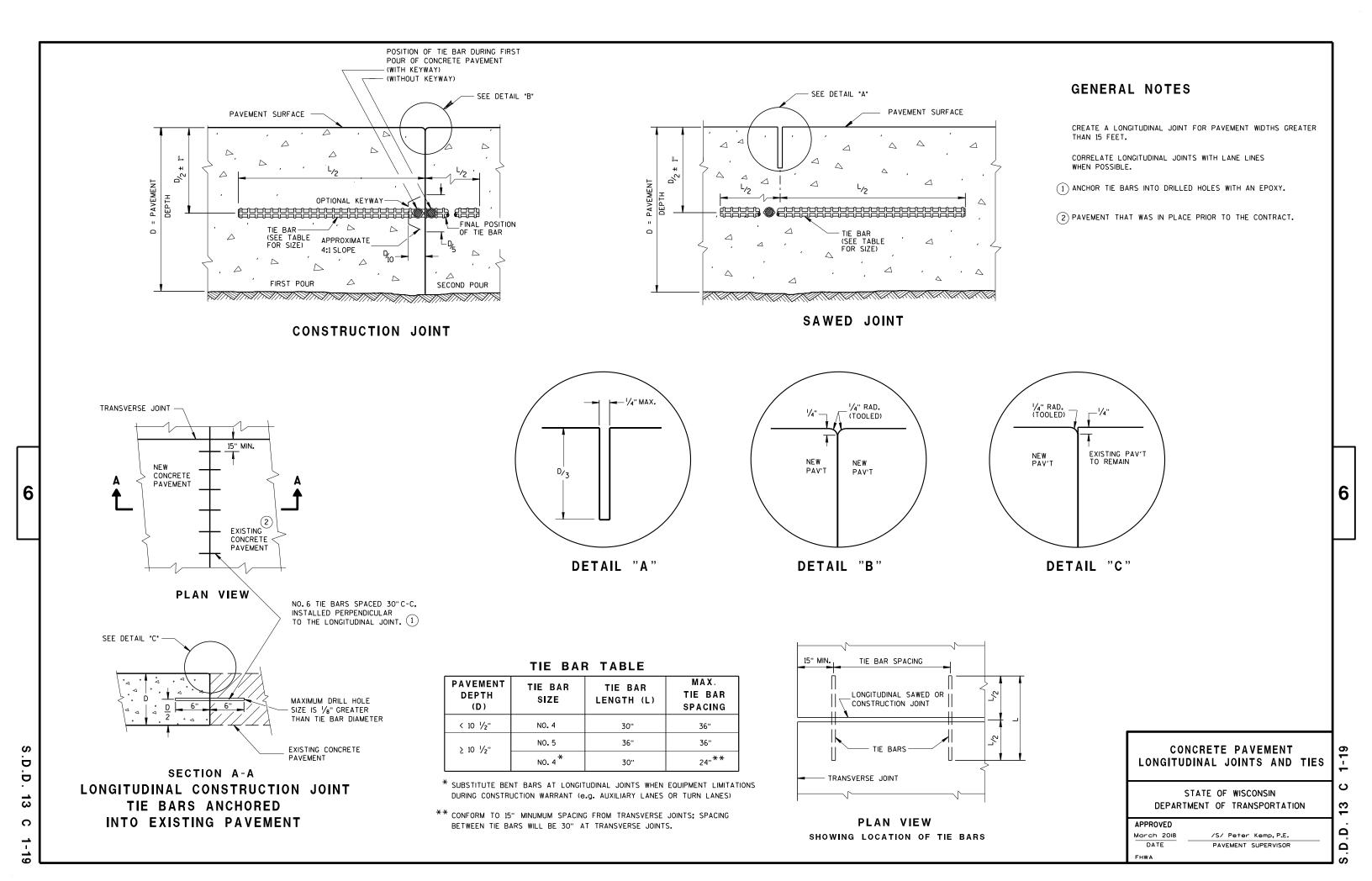
24" MIN.

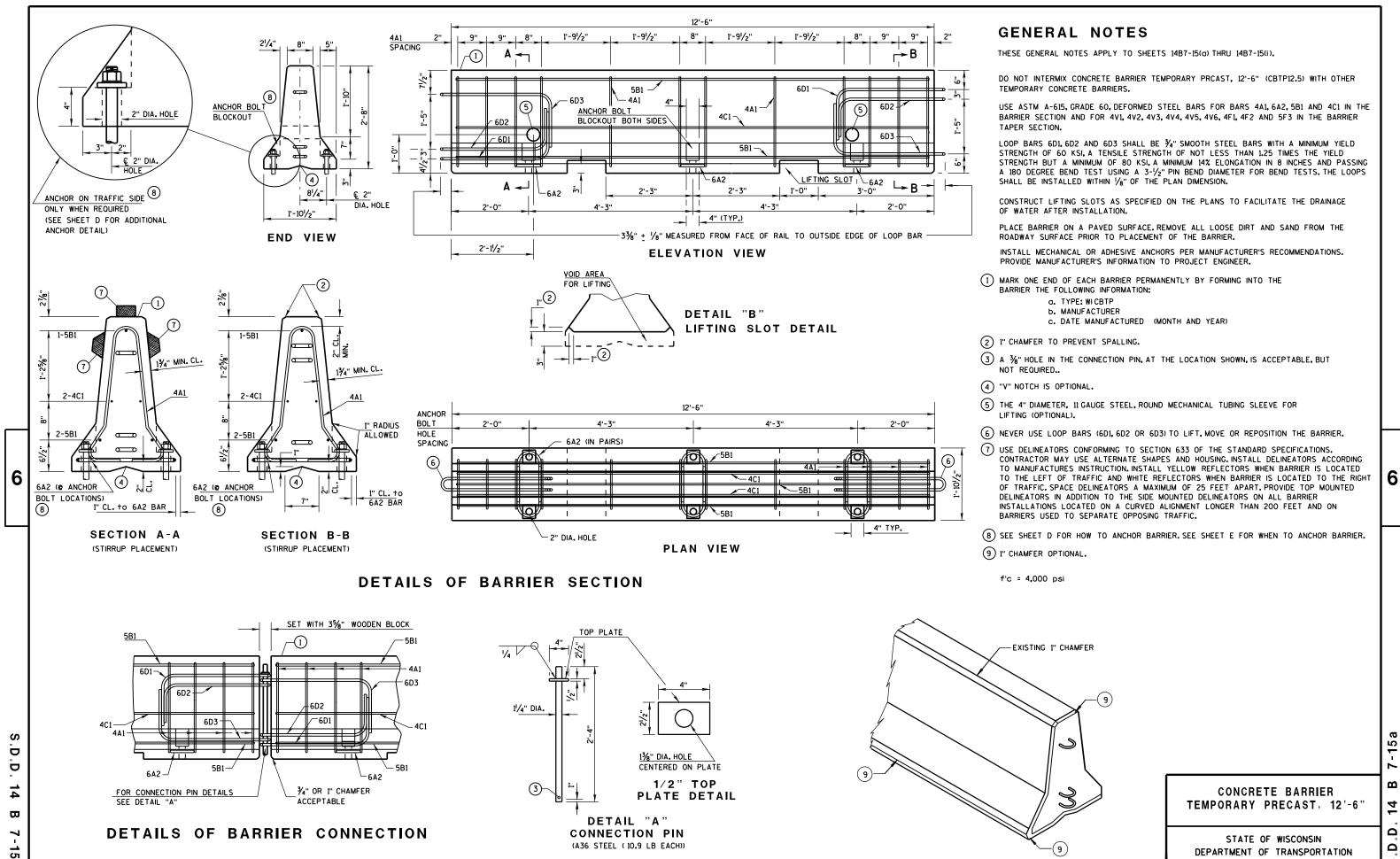
4' X 4" WOOD





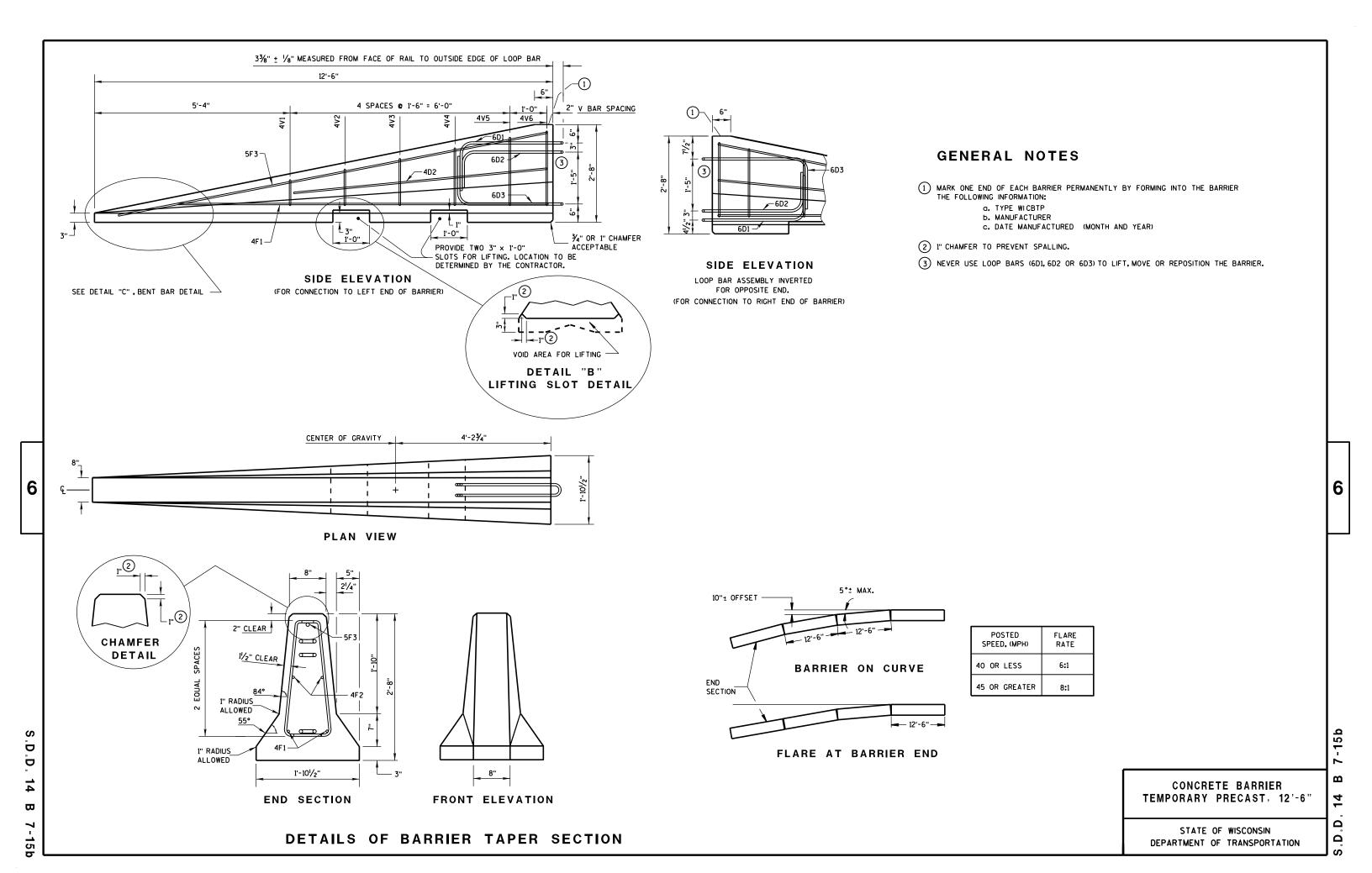






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DEPARTMENT OF TRANSPORTATION

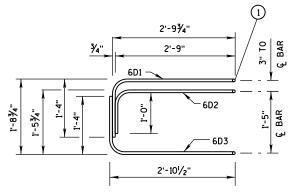


1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

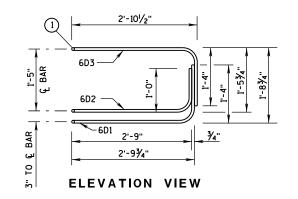
BARRIER TAPER SECTION BILL OF MATERIALS

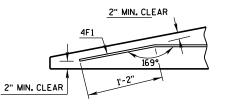
(PER 12'-6" BARRIER TAPER SECTION)

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

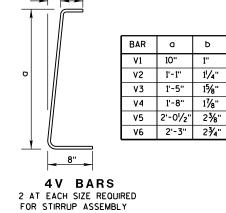








DETAIL "C" BENT BAR DETAIL



PLAN VIEW
LOOP BAR ASSEMBLY

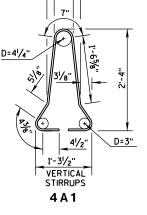
(MARKED END SHOWN, INVERT FOR OTHER END)

BARRIER SECTION

BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

LENGTH



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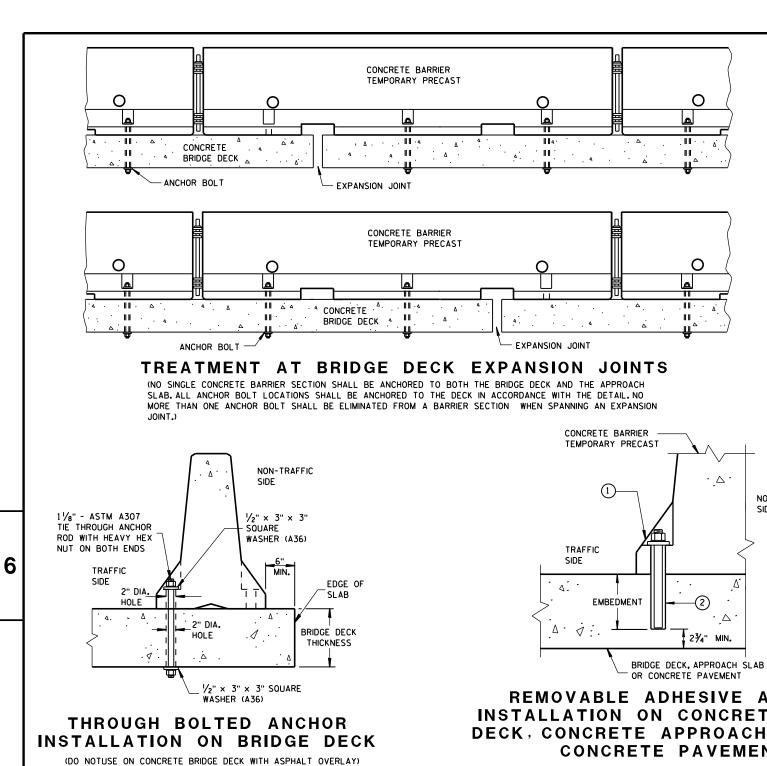
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TAPER BARRIER SECTION

BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



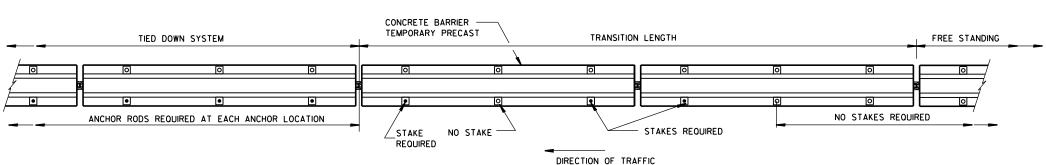
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REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

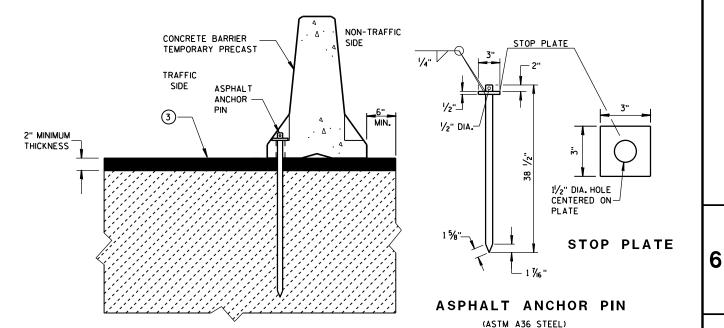
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

GENERAL NOTES

SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

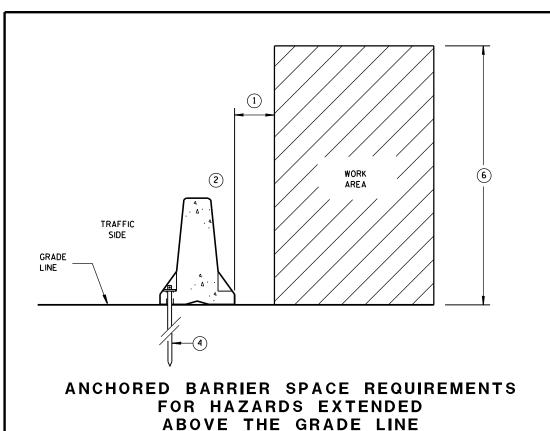
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.
- (3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.

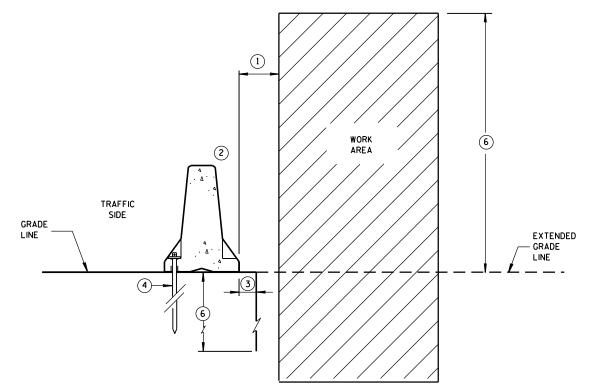


STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE**

> **CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15d $\mathbf{\omega}$ Ω

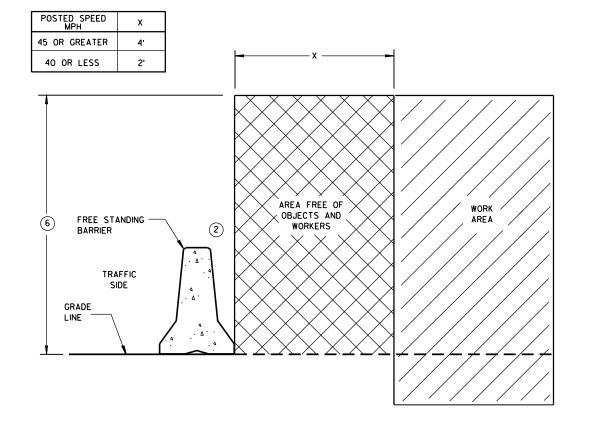


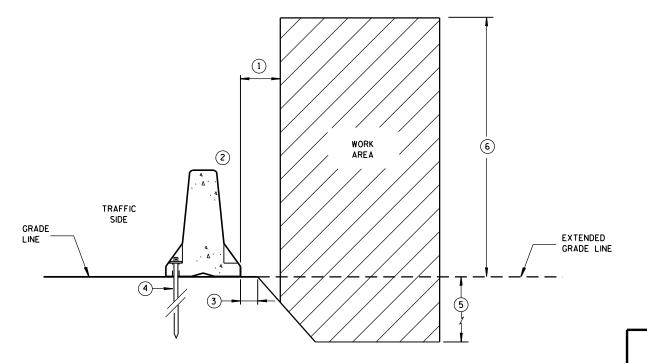


GENERAL NOTES

- 1) WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR
- 2 OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
- (3) SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
- 4 SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
- (5) DEPTH OF 3 FEET OR MORE.
- (6) Y = 6'-6".

ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS





FREE STANDING BARRIER SPACE REQUIREMENTS

ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

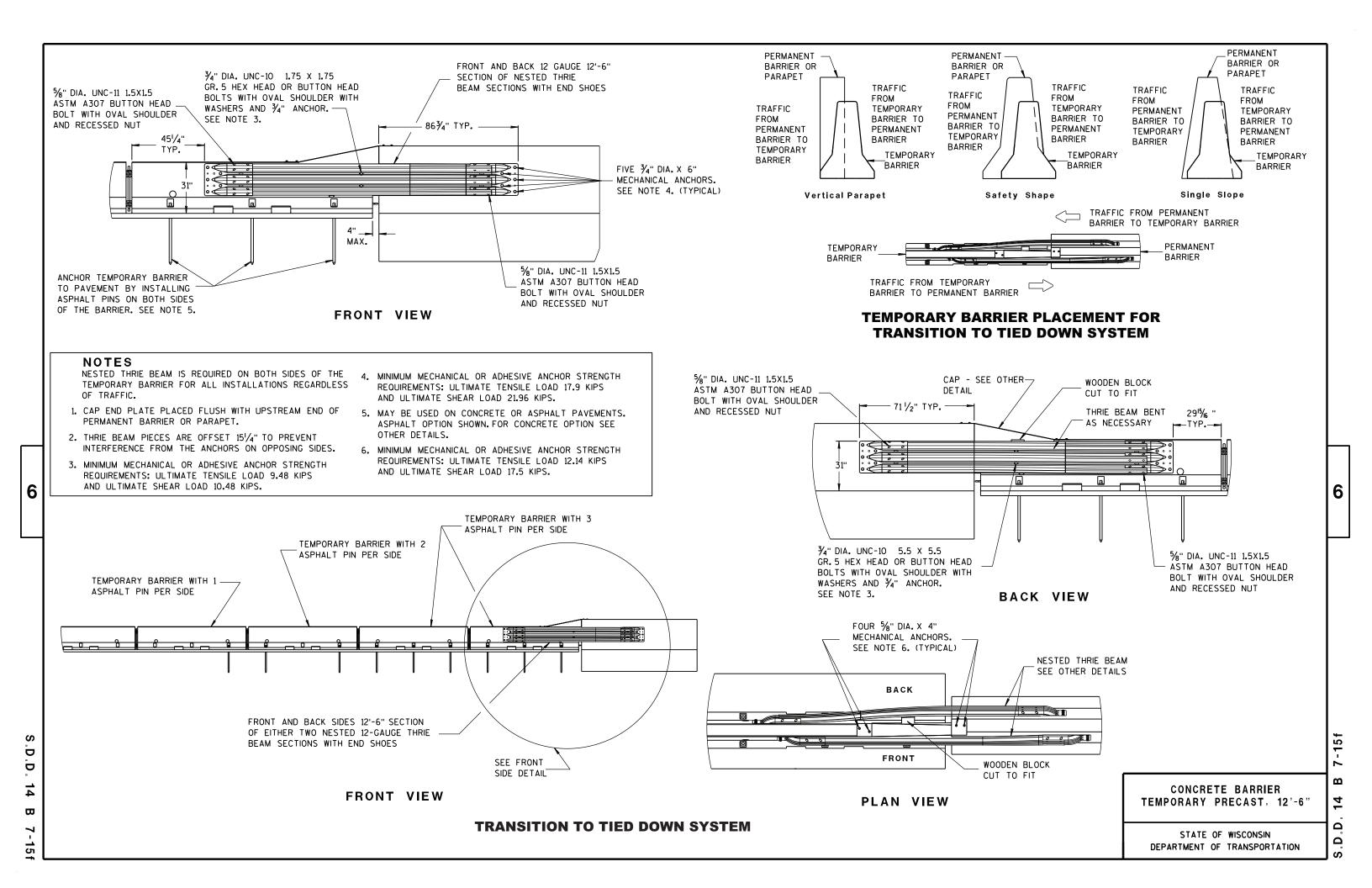
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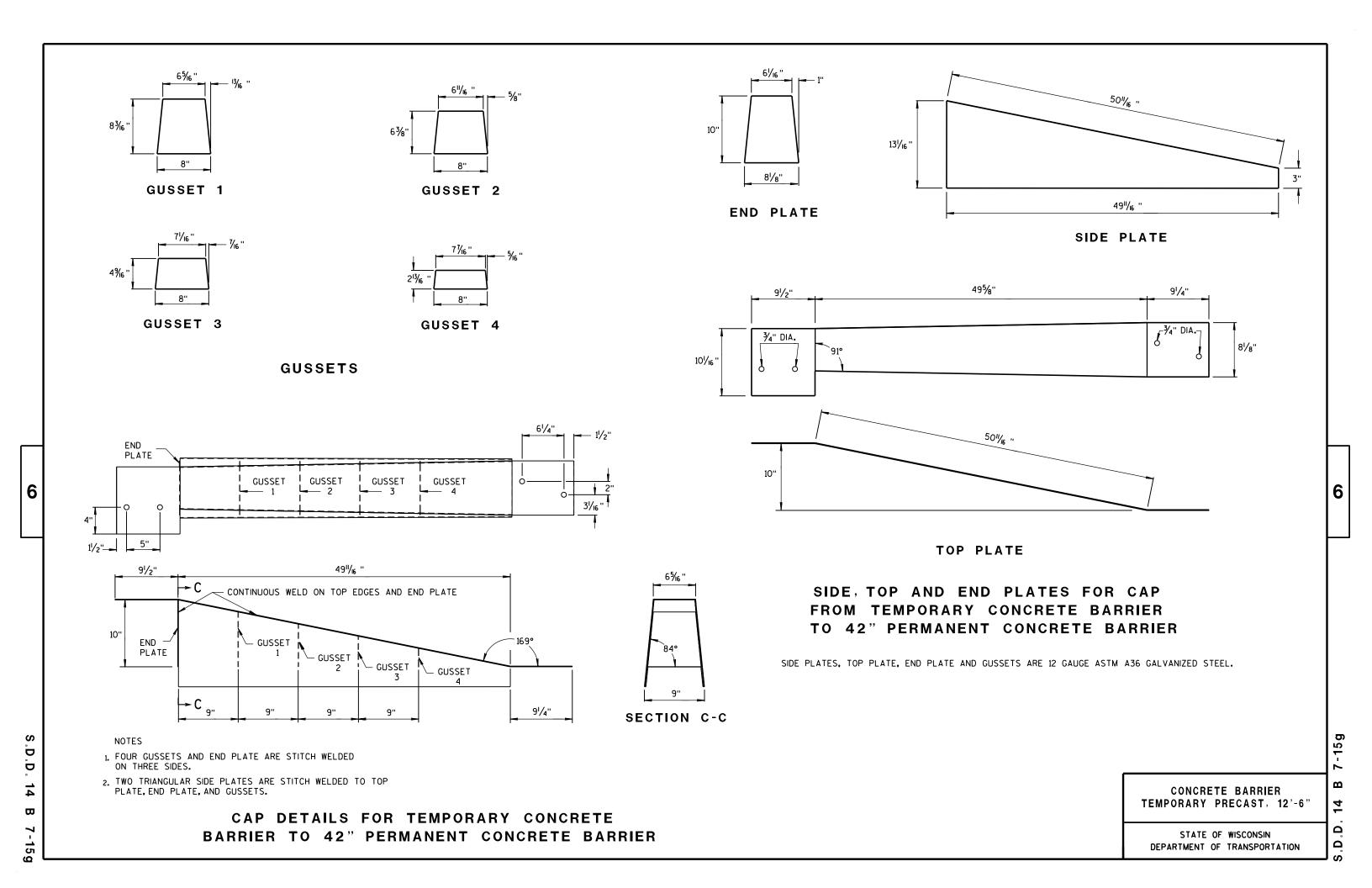
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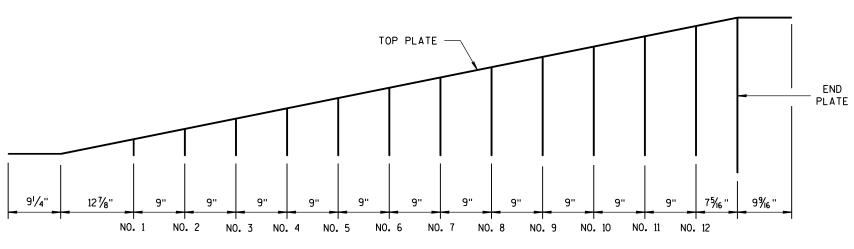
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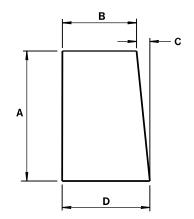




GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE

BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	В	С	D
1	21/8"	73/4"	1/4"	8
2	4"/16 "	7% "	1/2"	8
3	61/2"	73/8"	11/16 ''	8½ ₆ "
4	85//6"	73/16"	7∕8"	8½ ₆ "
5	101/8"	7"	1 ½ ₆ "	81/16"
6	11 ¹⁵ / ₁₆ ''	6 ¹³ / ₁₆ "	1 1/4"	81/16"
7	13¾"	65%"	1 1/6"	81/16"
8	15% "	6 ½ "	1 % "	8½ ₆ "
9	173/8"	61/4"	1 ¹³ / ₁₆ ''	8½6"
10	19¾ "	6½ ₆ "	1 15/16 "	81/16 "
11	21"	5 1/8"	23/6"	81/16"
12	22 ¹³ / ₁₆ "	5"/ ₁₆ "	25/6"	81/16"

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

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

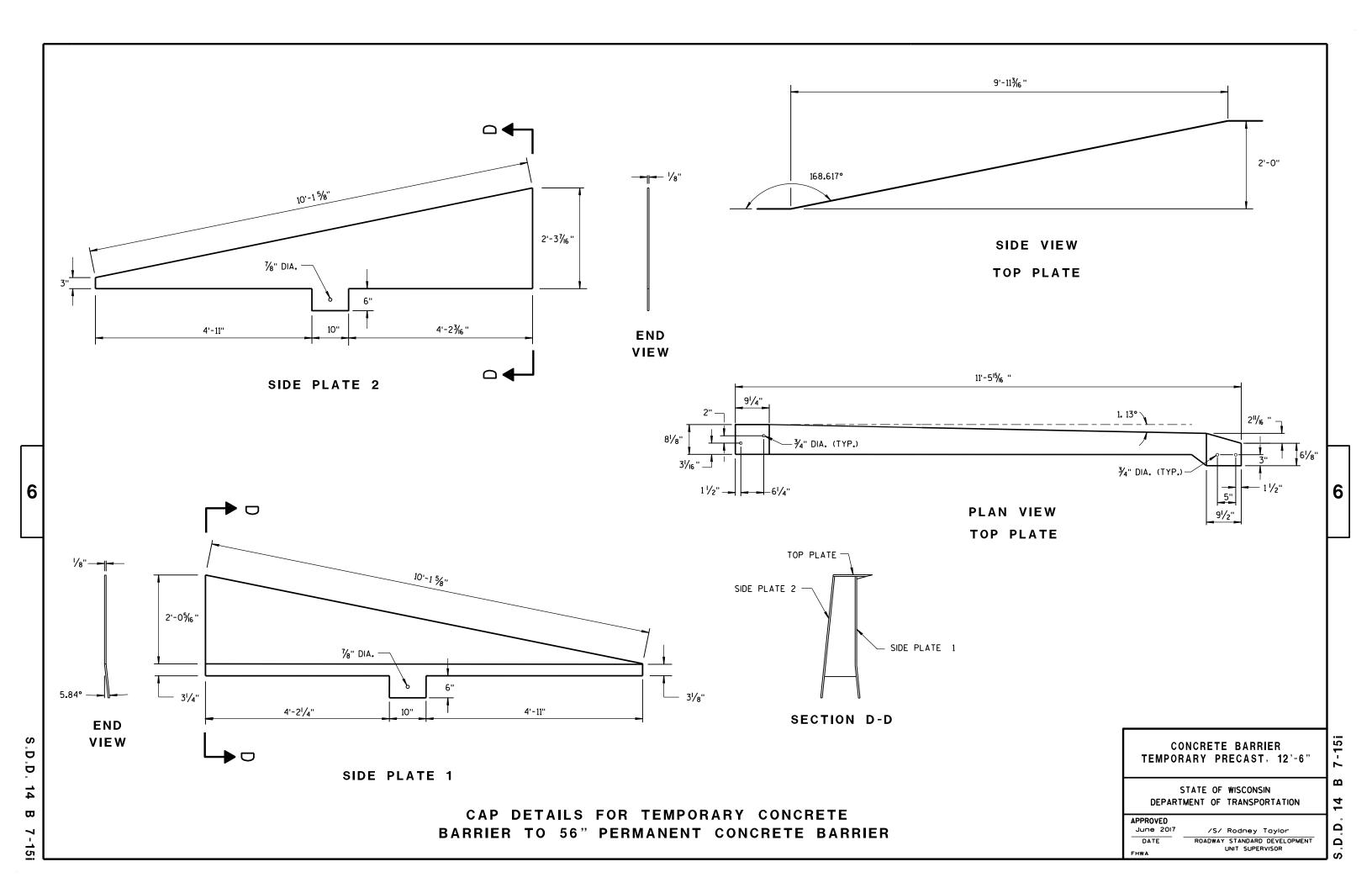
> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

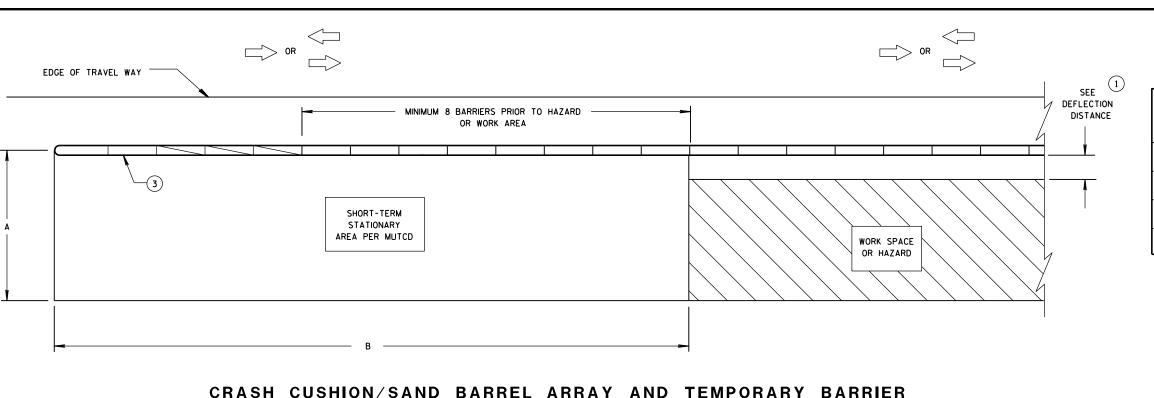
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DEPARTMENT OF TRANSPORTATION





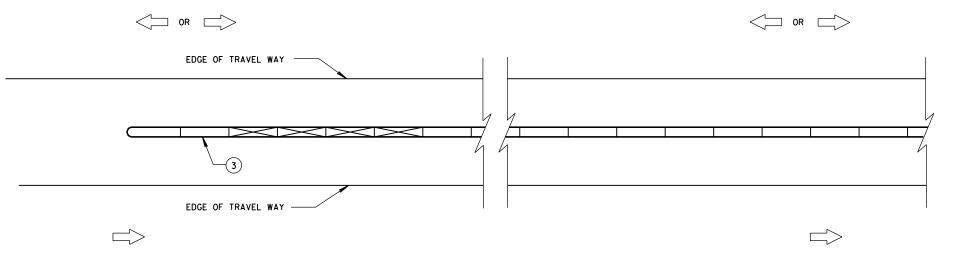
DIMENSION A TABLE (2)

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

DIMENSION B TABLE (2)

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

INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



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

GENERAL NOTES

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SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

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

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

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

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

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

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

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

DEPARTMENT OF TRANSPORTATION

6

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

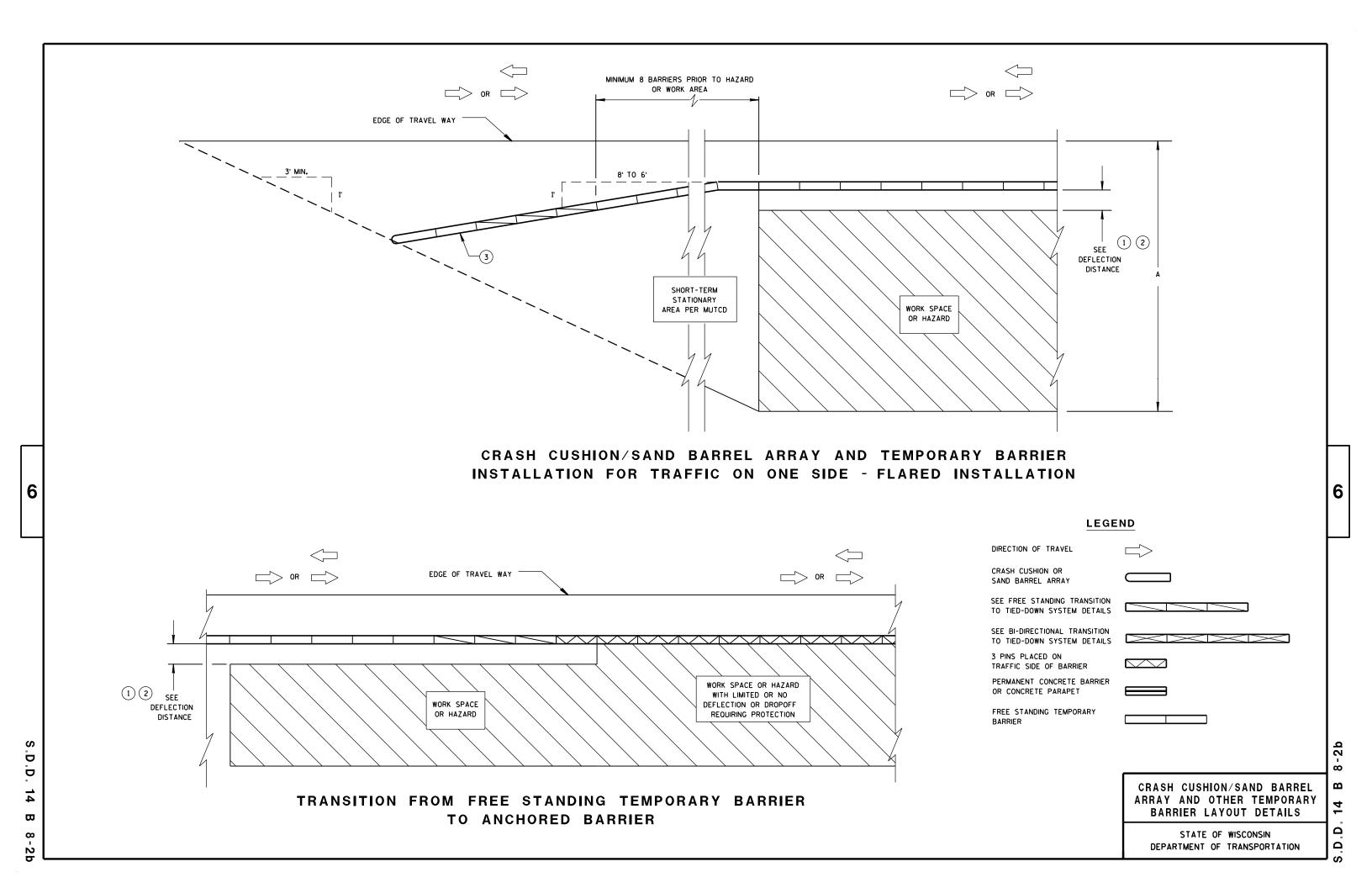
OR CONCRETE PARAPET

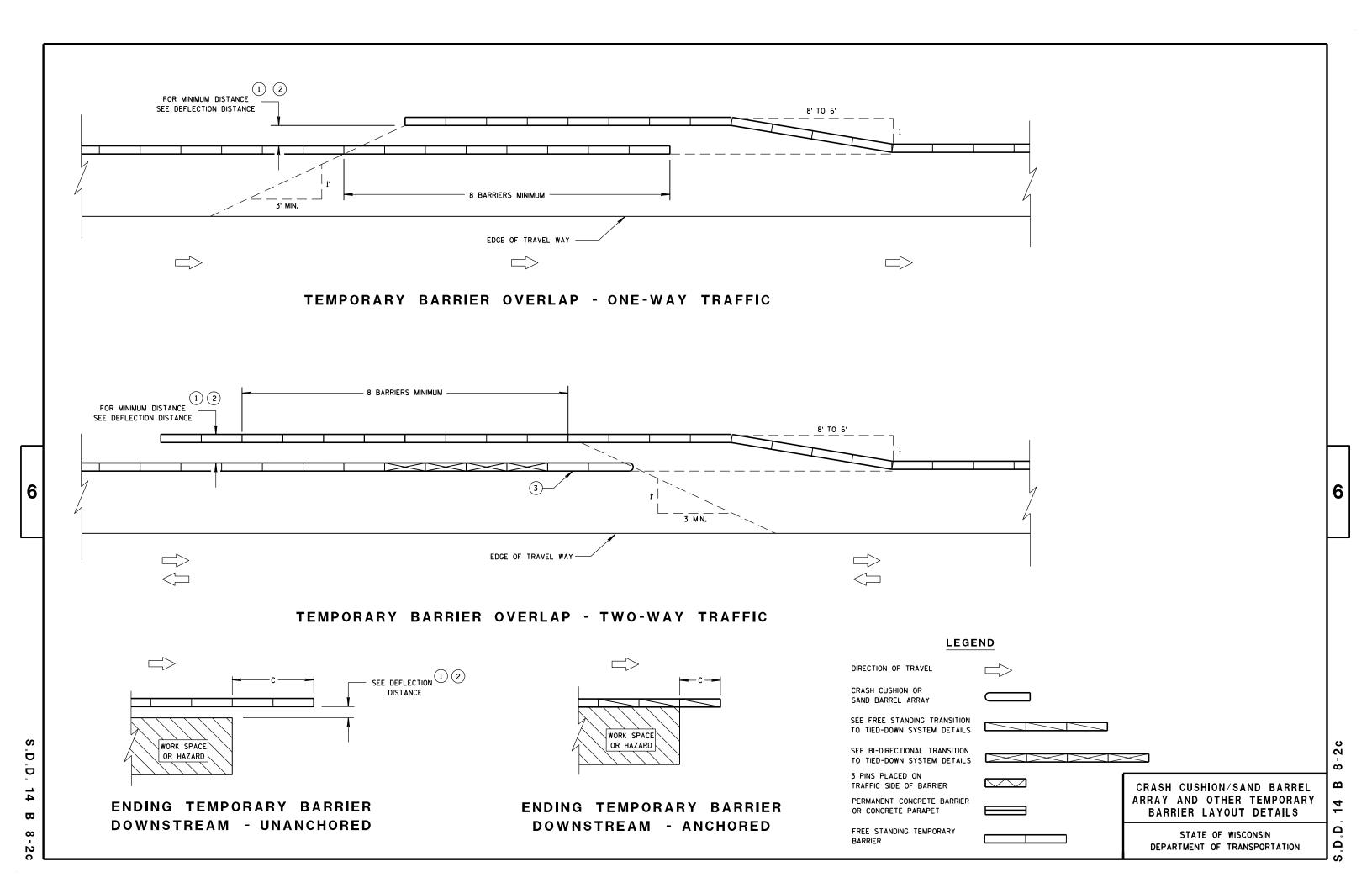
PERMANENT CONCRETE BARRIER

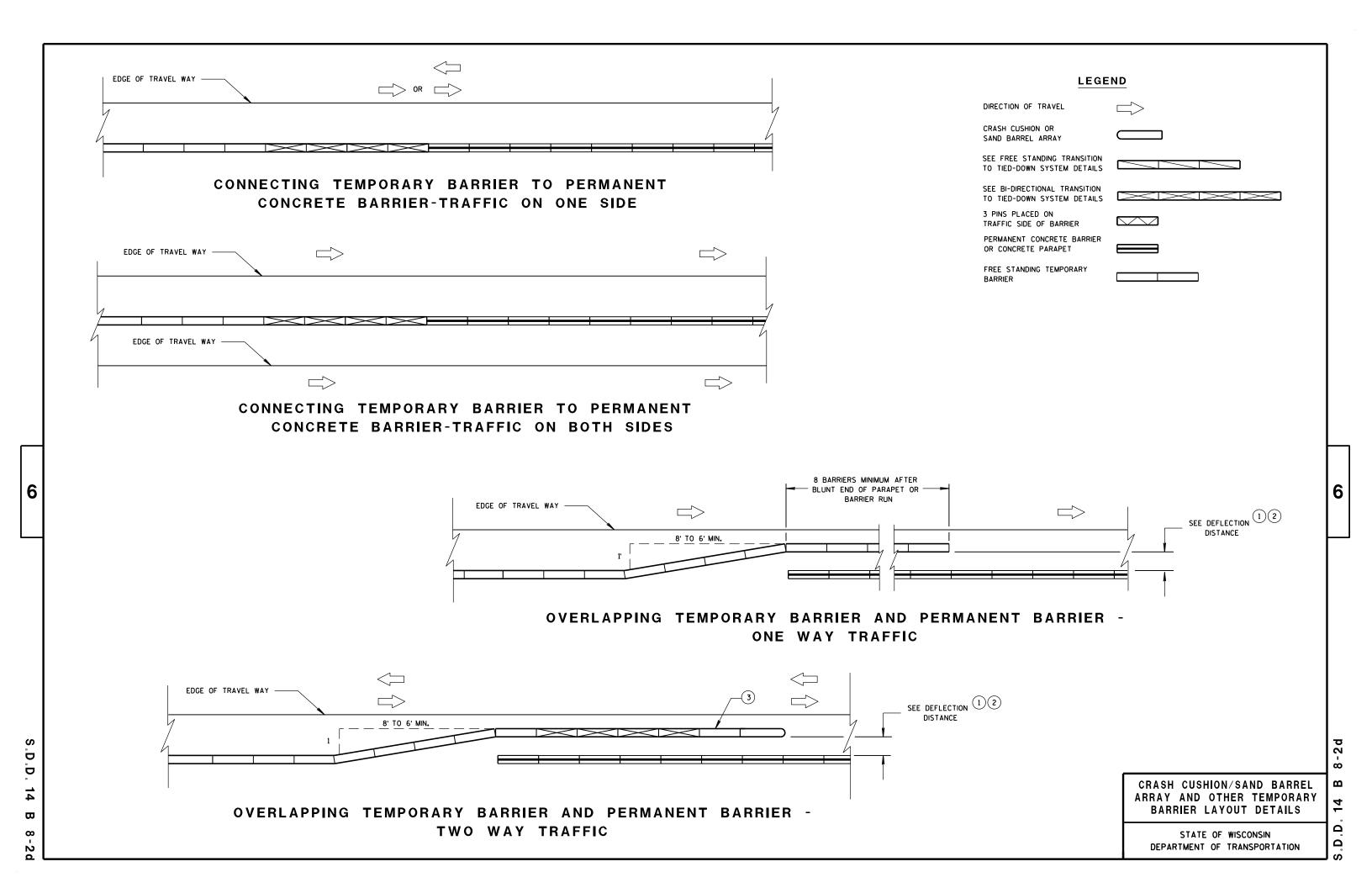
FREE STANDING TEMPORARY BARRIER

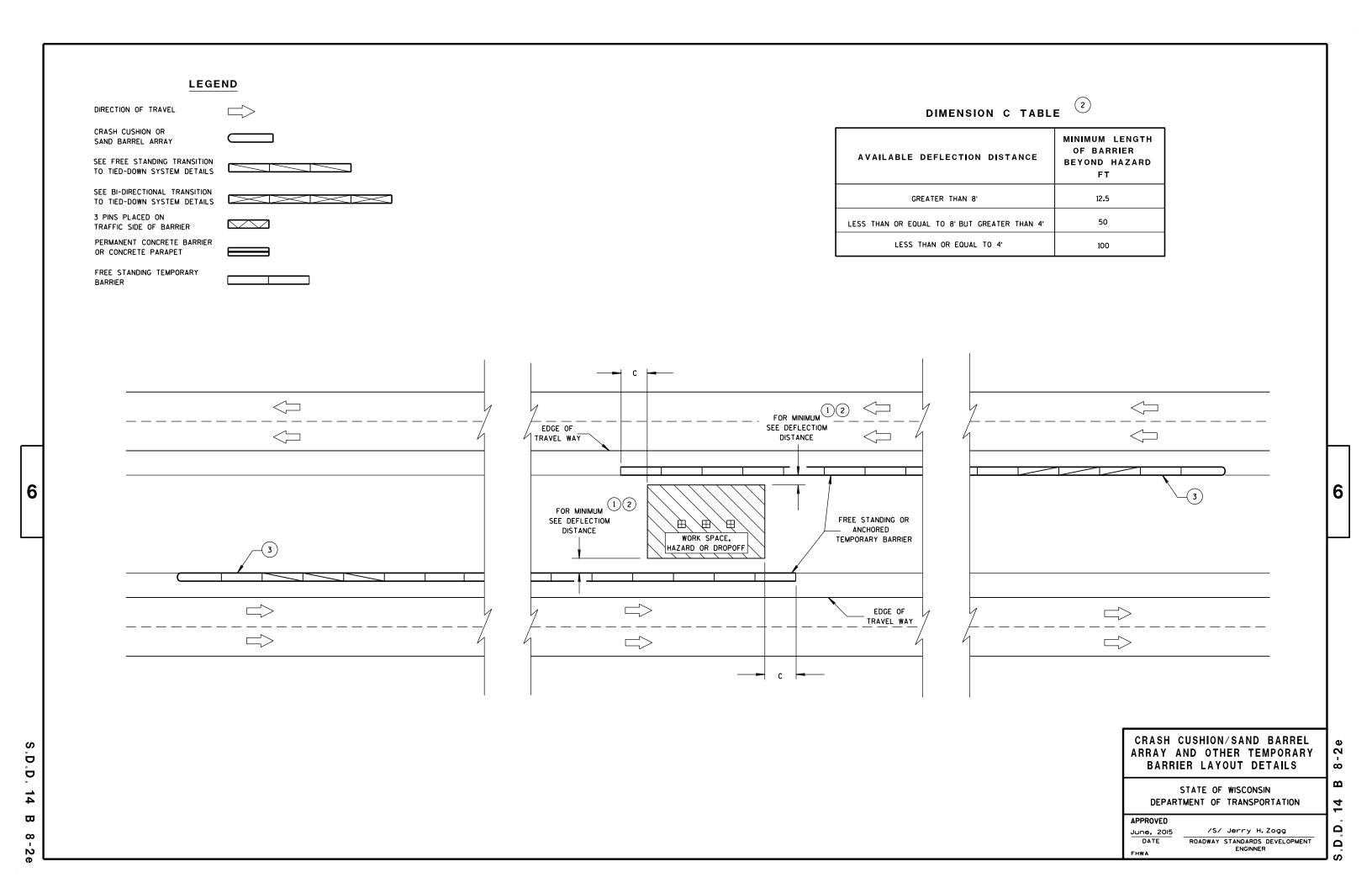
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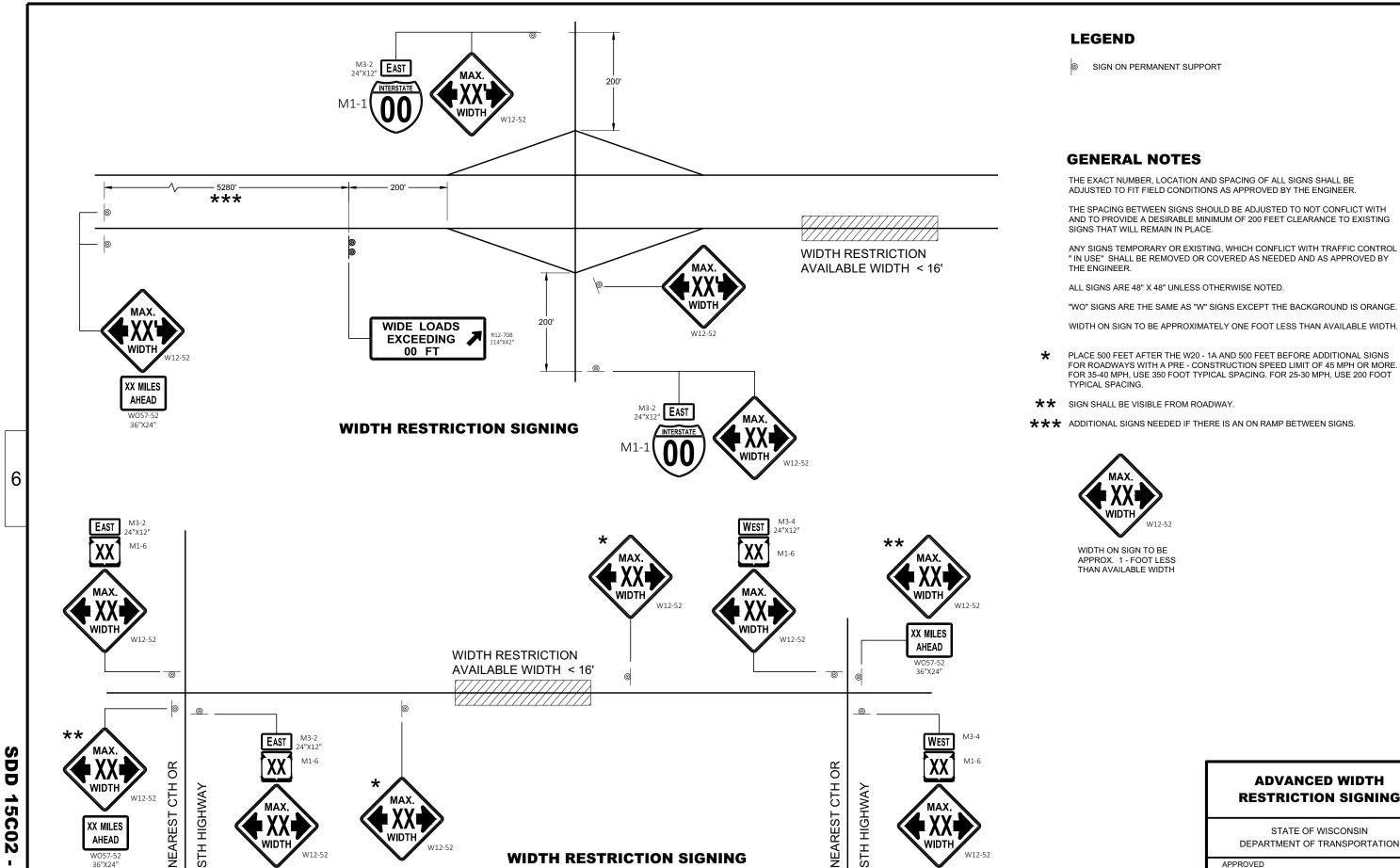
STATE OF WISCONSIN Ω











2 LANE HIGHWAY

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THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING

"IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT

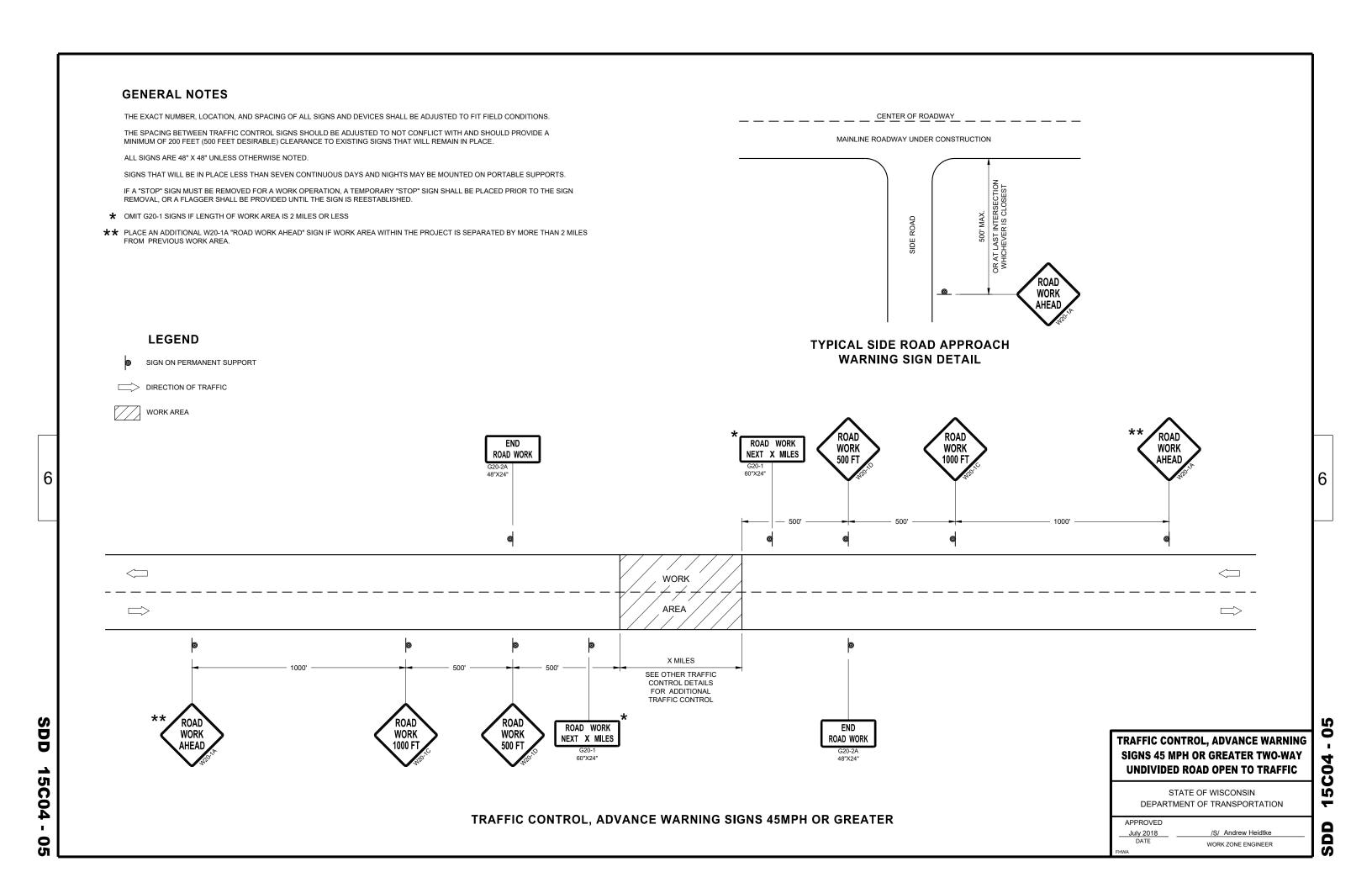
*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

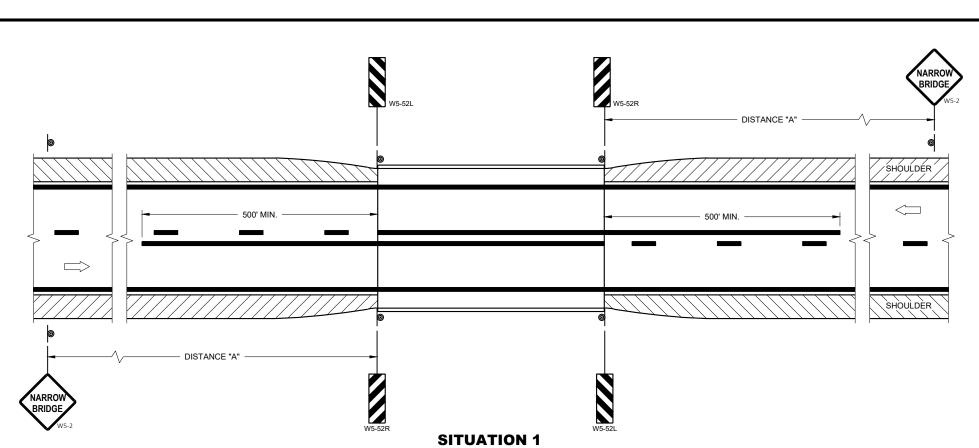
APPROVED

February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER 08 2 Ŋ

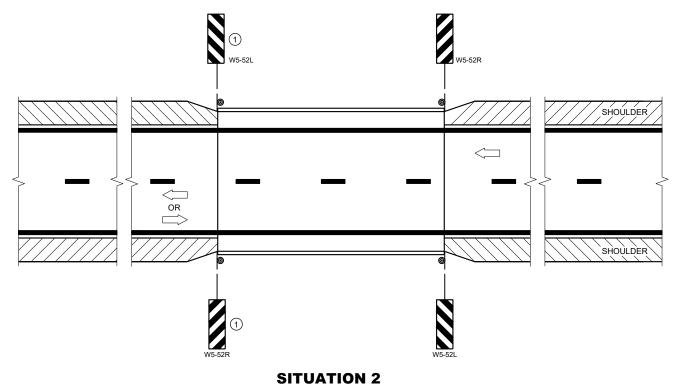




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WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



SDD

15C06

WARRANTING CRITERIA:

- 1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
- 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

(1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2022	/S/ Jeannie Silver
DATE	STATE SIGNING AND MARKING
	ENGINEER

GENERAL NOTES

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

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

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

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

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

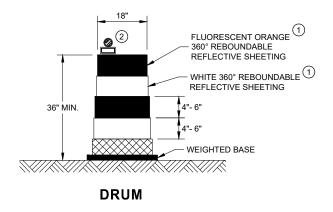
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

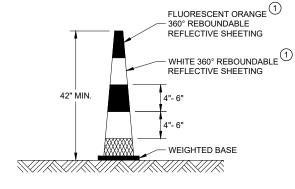
 APPROVED
 May 2021
 /S/ Andrew Heidtke

 DATE
 WORK ZONE ENGINEER

GENERAL NOTES

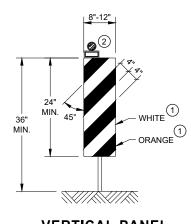
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



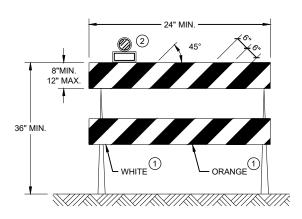


42" CONE DO NOT USE IN TAPERS

½ SPACING OF DRUMS

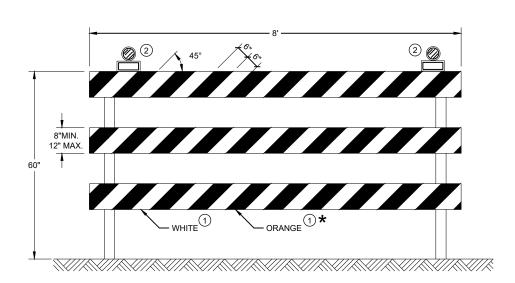


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

<u>60</u>

15C

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FLUMA	

RUMBLE

STRIPS

ROAD

WORK

GENERAL NOTES FLAGGING LEGEND FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON SIGN ON PORTABLE OR PERMANENT SUPPORT UNIFORM TRAFFIC CONTROL DEVICES. PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. (2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED FLAGGER, EQUIPPED WITH STOP/SLOW ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT PADDLE FASTENED ON SUPPORT STAFF THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE 5' MIN BE SPACING "A" SPEED LIMIT USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A". 35-40 MPH 350' STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

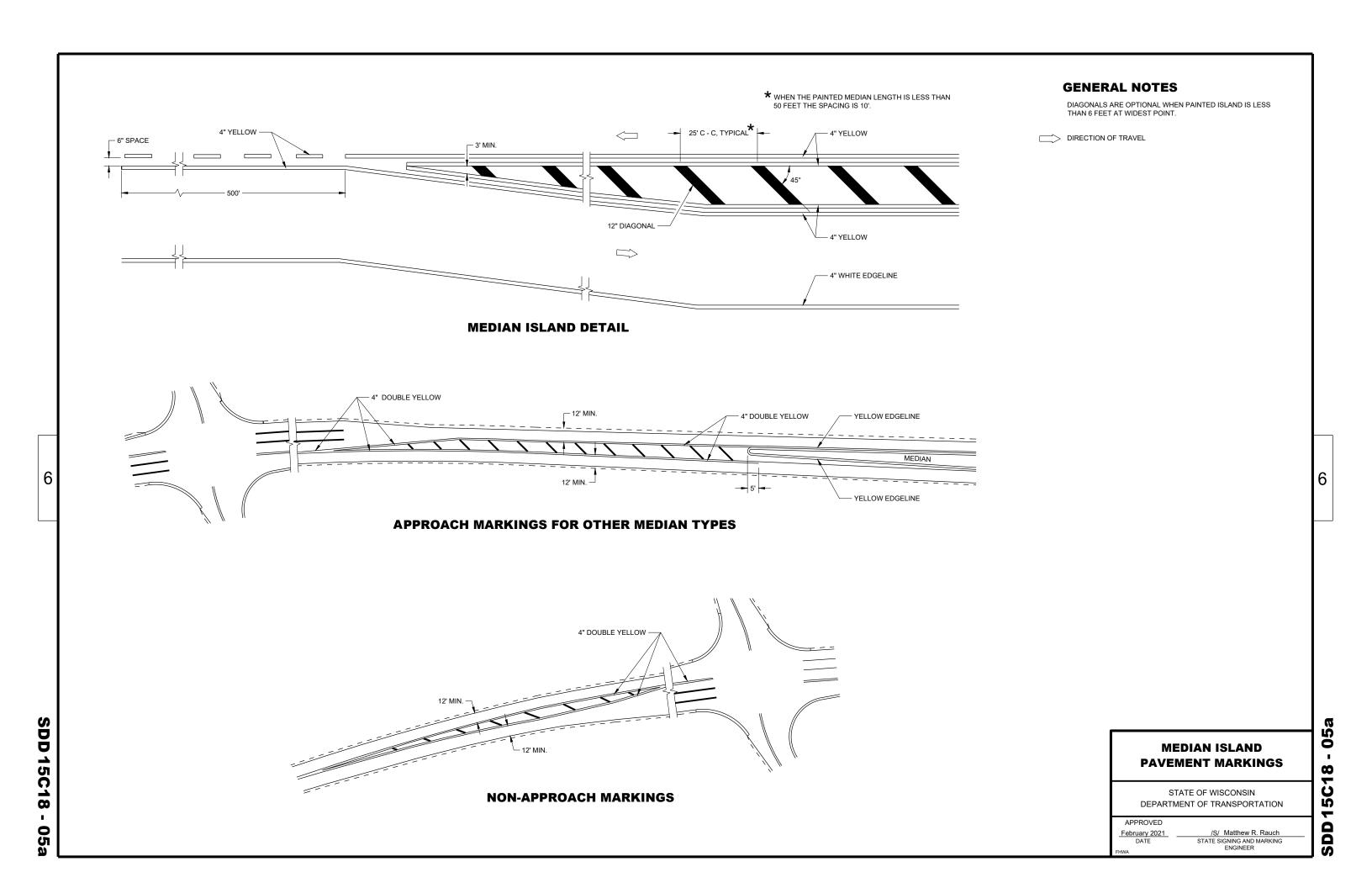
TRAFFIC CONTROL FOR LANE CLOSURE WITH **FLAGGING OPERATION**

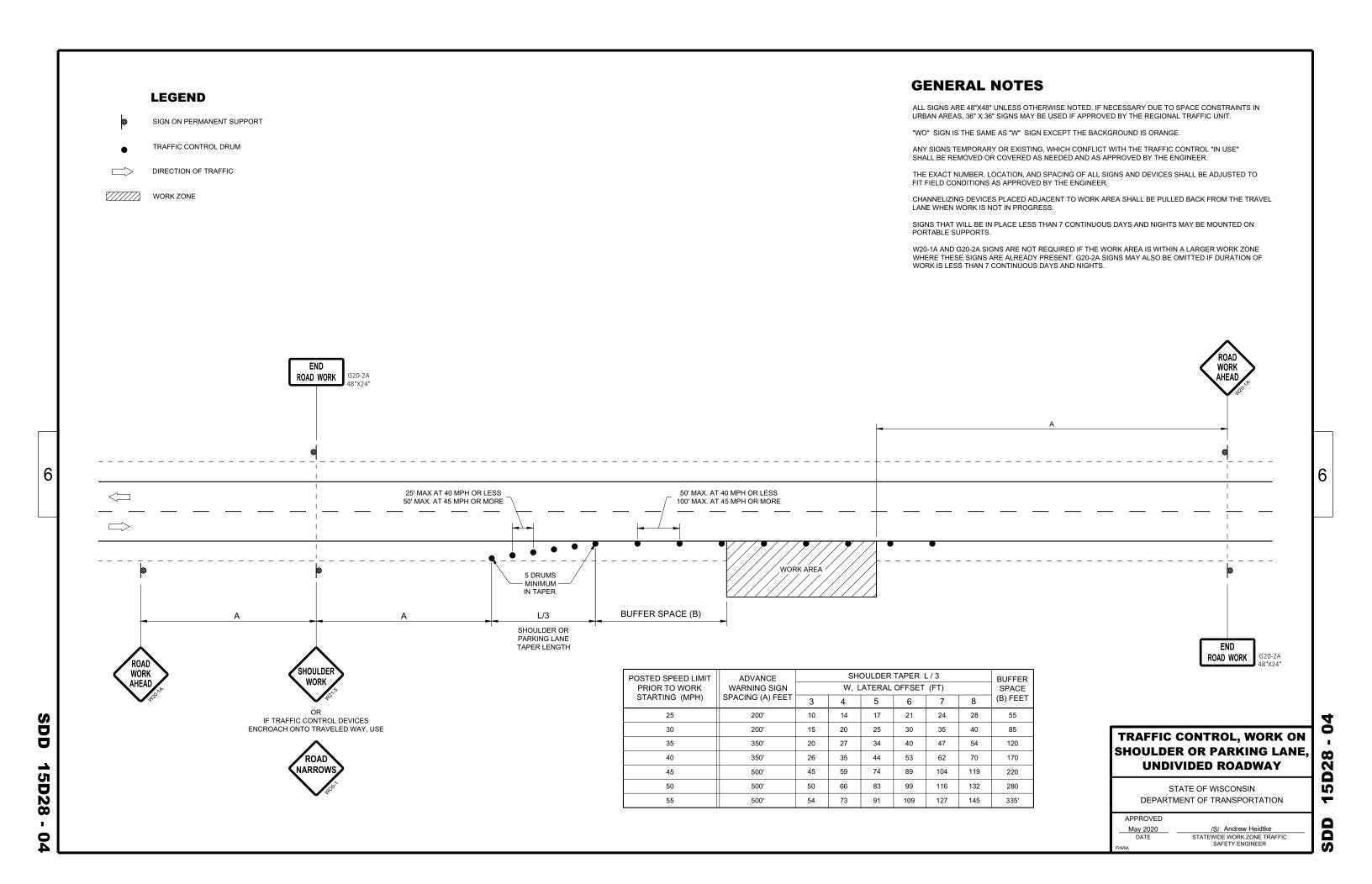
2

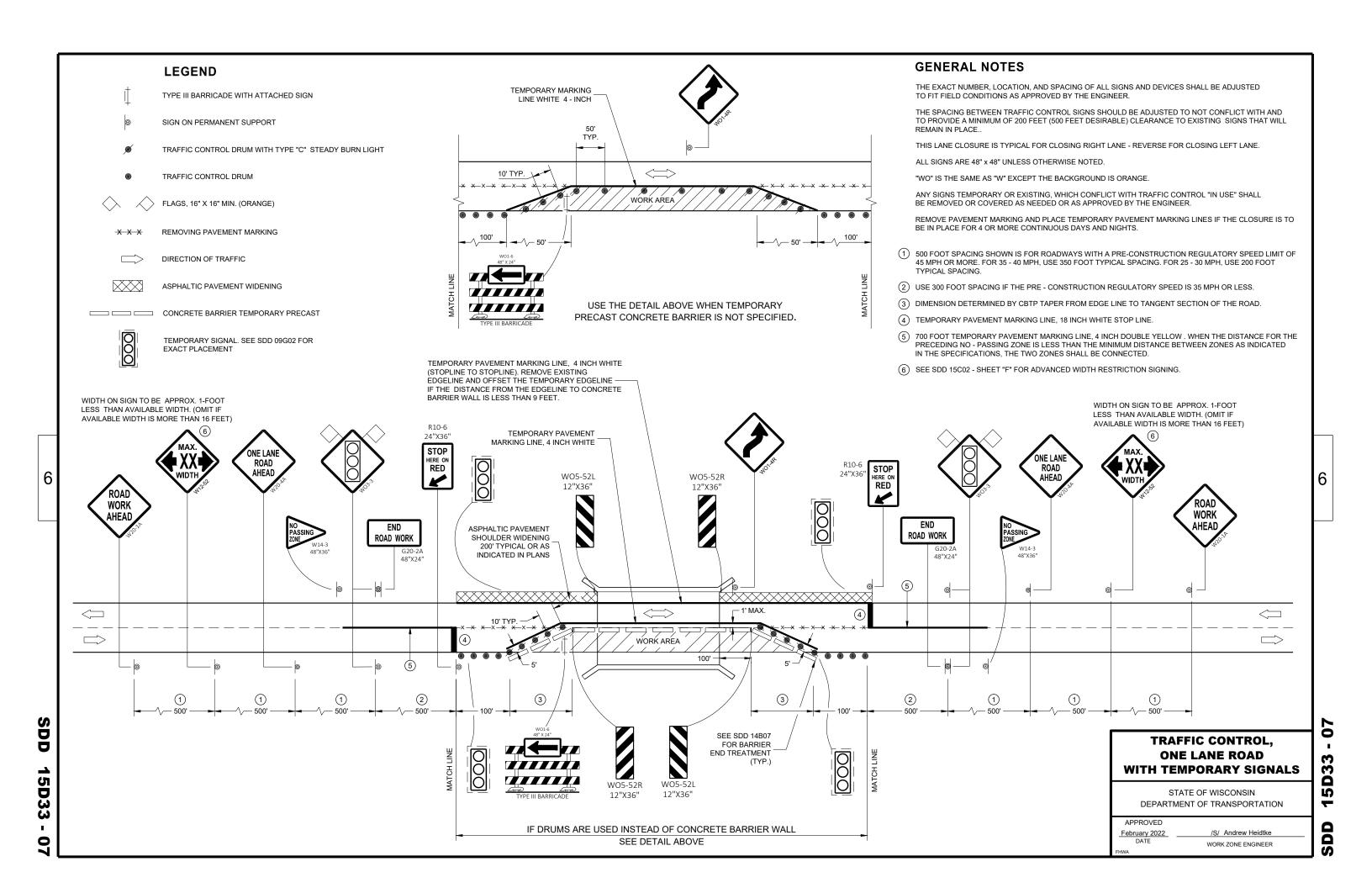
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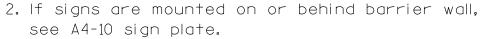
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2021 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER









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

- 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 signs mounted on traffic signal poles is $5'-3''(\frac{+}{2})$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

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

** Curb Flowline

D
White Edgeline Location

*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

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

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

HWY:

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. _A4-3.22

SHEET NO:

Ε

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

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

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

APPROVED



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

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. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) 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

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





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

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

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

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

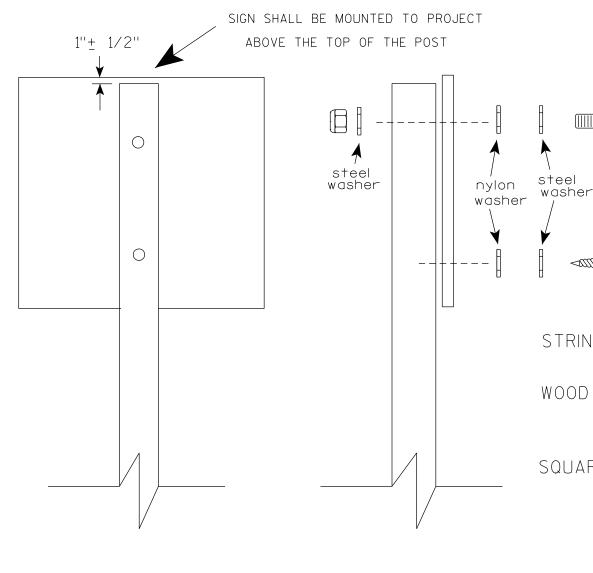
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

PLATE NO. <u>44-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN



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

DATE 2/05/15

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

For State Traffic Engineer

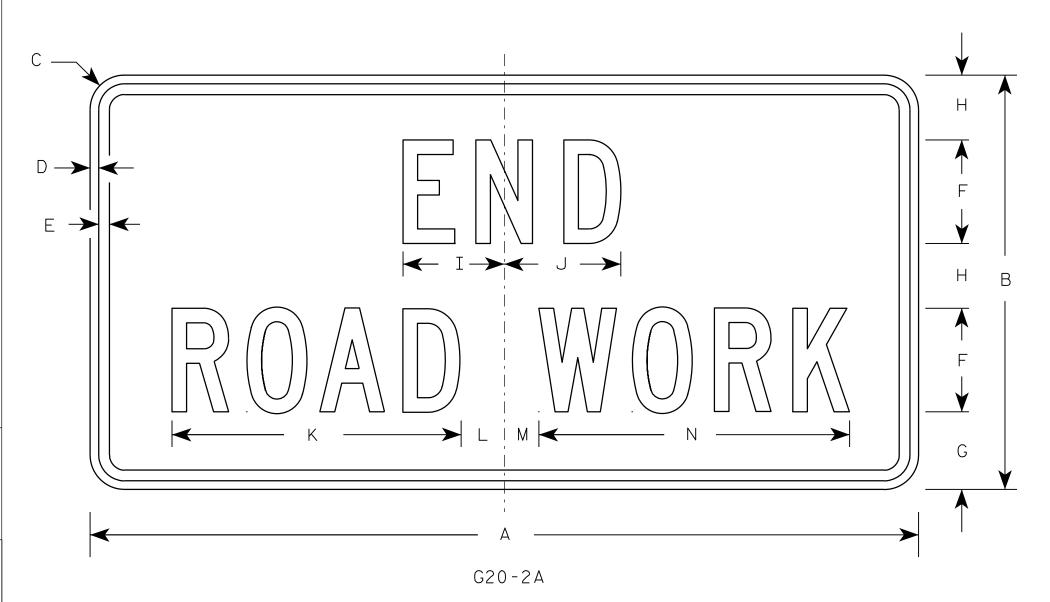


1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

2. Color:

Background - Orange Message - Black

- 3. Message Series 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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	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 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													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 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

AP

For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

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

HWY:

PROJECT NO:

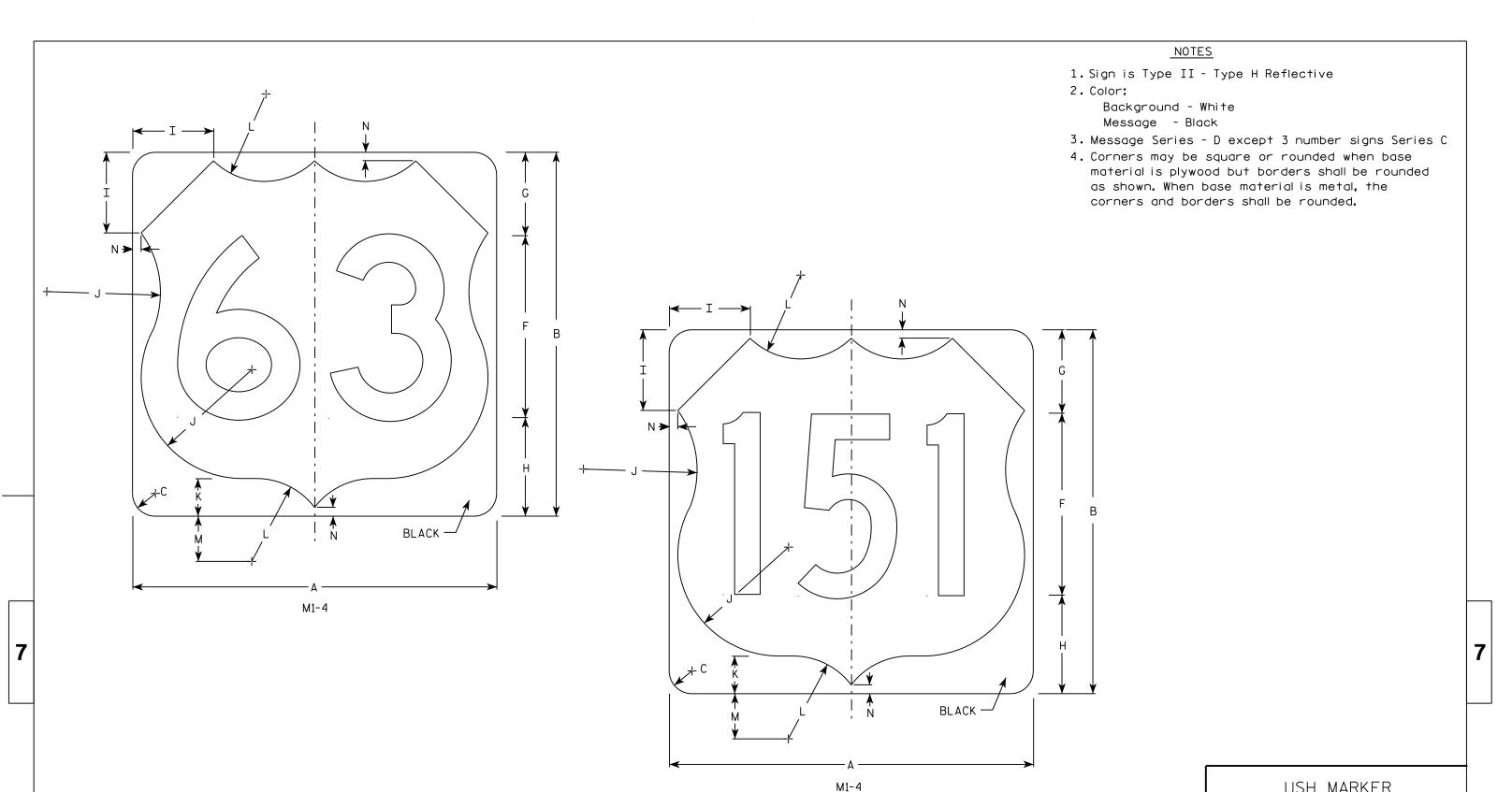
PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42



D Ε G Ν Z 2 24 24 | 1 1/2 7 1/2 2 1/2 5 1/2 5 1/2 6 1/2 1/2 4.0 36 2 1/4 7 1/4 11 1/4 3 3/4 8 1/4 4 1/2 36 8 1/4 9 1/4 3/4 9.0 18 36 2 1/4 7 1/4 11 1/4 3 3/4 8 1/4 4 1/2 3/4 36 9 1/4 9.0 18 8 1/4 8 1/4 9 1/4 7 1/4 11 1/4 3 3/4 8 1/4 4 1/2 3/4 36 36 | 2 1/4 18 9.0

COUNTY:

USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

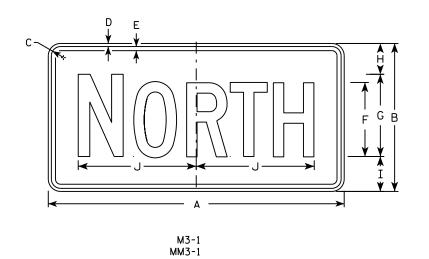
DATE <u>3/16/18</u>

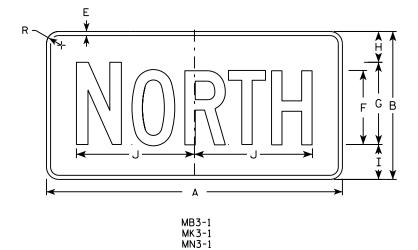
PLATE NO. M1-4.10

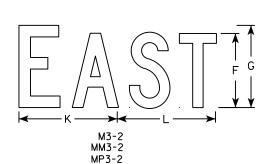
SHEET NO:

HWY:

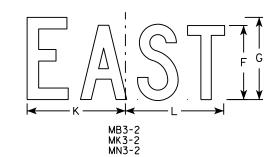
PROJECT NO:

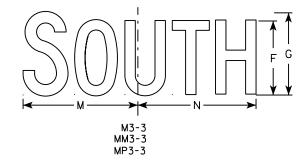


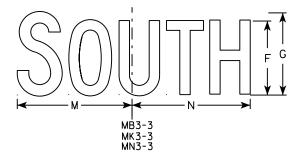


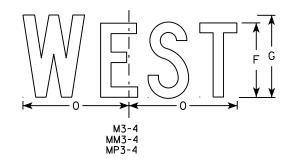


MP3-1

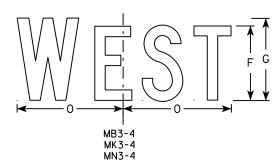








HWY:



NOTES

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

Background - See note 5 Message - See note 5

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

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

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

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

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

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

Ε

SHEET NO:

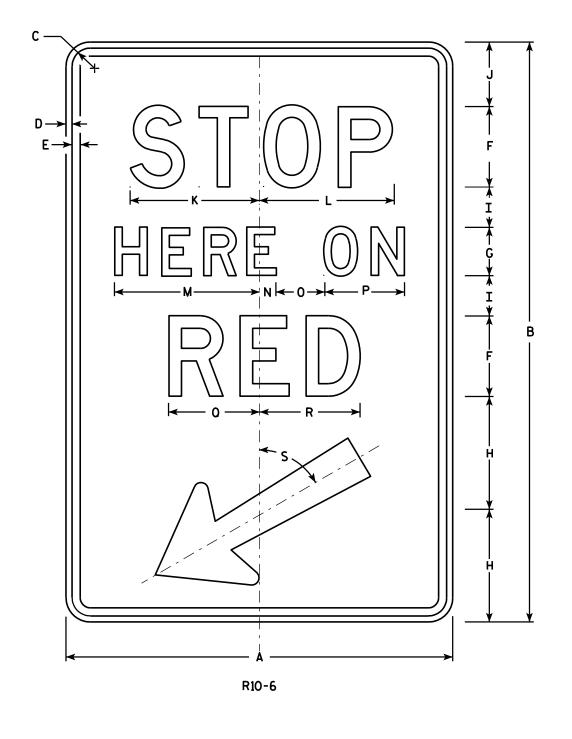
FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

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

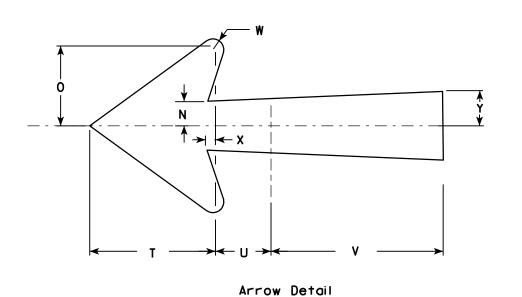
PLOT SCALE . 11 675051.1 000000



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

Background - White Message - Black

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



SIZE	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	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

STANDARD SIGN R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 4/5/11

PLATE NO. R10-6.6

COUNTY:

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

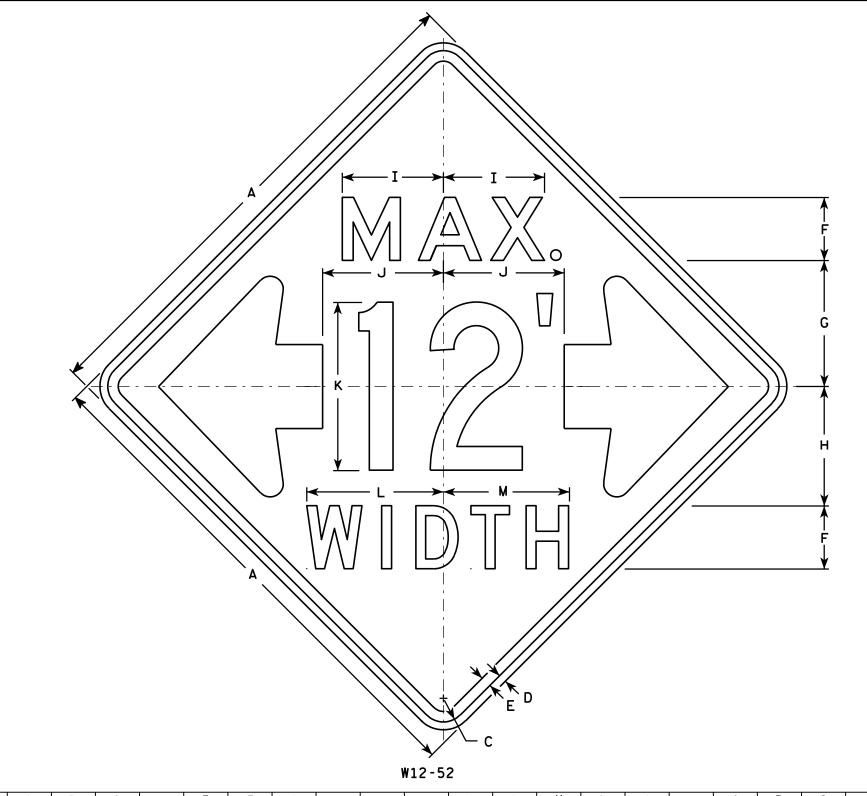
WISDOT/CADDS SHEET 42

FILE NAME: C:\Users\PROJECTS\tr_stdplate\R106.DGN

PROJECT NO:

HWY:

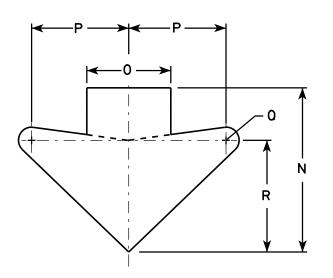
PLOT DATE: 05-APR-2011 09:50



- 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. The top line is series E, the numerals are series C, and the bottom line is series D.
- 6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

CT TE			T					ш					1.4		_		_		_					· ·	·	7	Area
SIZE	Α	В	L	ט	-	F	G	Н	l I	J	K	L	M	N	U	P	U	R	>	1	U	V	W	X	T		Area sq. ft.
1																											
25	48		2 1/4	₹4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 %									16.0
2M	48		2 1/4	₹4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 %									16.0
3																											
4																											
5																											

COUNTY:

STANDARD SIGN W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

SHEET NO:

HWY:

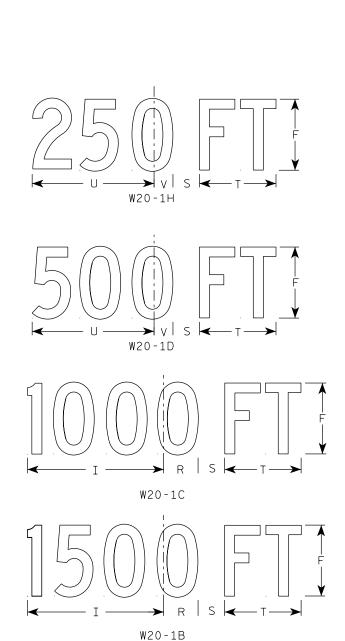
PROJECT NO:

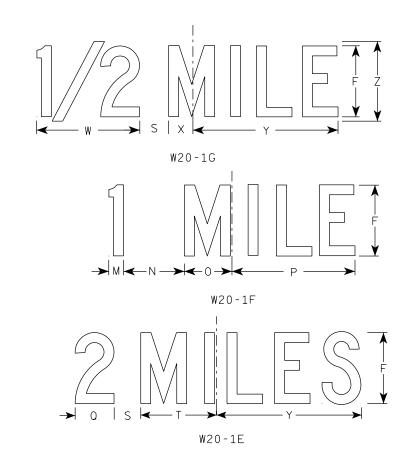
PLOT NAME :

- 1. Sign is Type II Type F Reflective
- 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.





SIZE	А	В	С	D	E	F	G	H I	J	K	_ M	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4 10 1/8	7	7 % 8	7/8 1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	$1 \frac{3}{8}$	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

 f_{or} State Traffic Engineer
DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN

PROJECT NO:

W20-1A

PLOT DATE: 25-MARCH-2020

PLOT BY : dotc4c

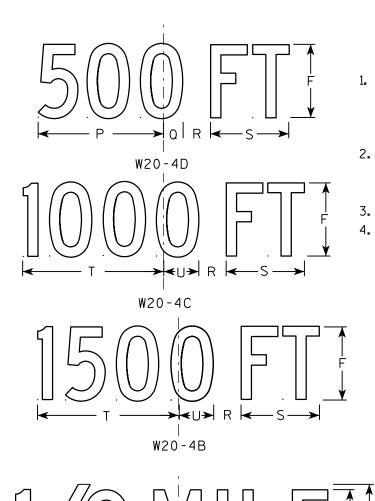
WISDOT/CADDS SHEET 42



- 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 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.



W20-4B

W20-4G

W20-4G

SIZE	Α	В	С	D	E	F	G	Н	I	J K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	36		1 %	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8 2 3/8	8	13 1/2	7	8 1/8	9	1 3/8	1 1/8	5 %	10 1/8	2 ½	1 1/8	4 ½	3 ½	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 % 3 1/4	10 %	17 3/4	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 ½	3	1 1/2	6	4 %	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0

STANDARD SIGN W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-4.9

SHEET NO:

W20-4A

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W204.DGN

PROJECT NO:

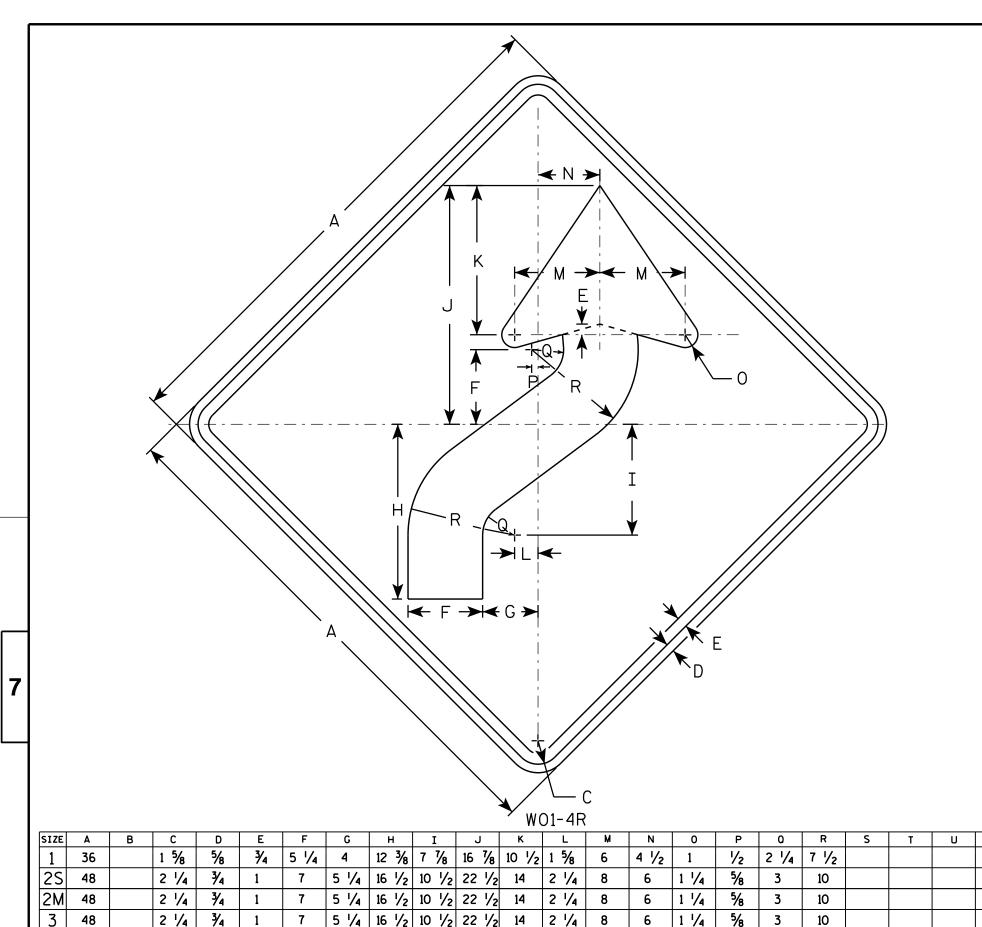
PLOT DATE: 18-MAR-2011 12:11

PLOT BY: mscj9h

W20-4F

WISDOT/CADDS SHEET 42

Ε



5 1/4 16 1/2 10 1/2 22 1/2 14

5 1/4 16 1/2 10 1/2 22 1/2 14

HWY:

2 1/4

2 1/4

NOTES

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

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

9.0 16.0 16.0 16.0 16.0 STANDARD SIGN W01-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE <u>11/18/1</u>3

PLATE NO. WO1-4.1
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN

48

48

PROJECT NO:

2 1/4 3/4

2 1/4 | 3/4

PLOT DATE : 28-FEB-2014 11:35

10

1 1/4

1 1/4

COUNTY:

5/8

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 6.755110:1.000000

WISDOT/CADDS SHEET 42

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

Background - Orange Message - Black

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

	G
	_ ¥ B
W01-6	₩

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areg sq. ft.
1																											
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 ¾													12.5
5	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 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

For State Traffic Engineer

13 PLATE NO. <u>W01-6.1</u>

DATE <u>11/18/13</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN

HWY:

PROJECT NO:

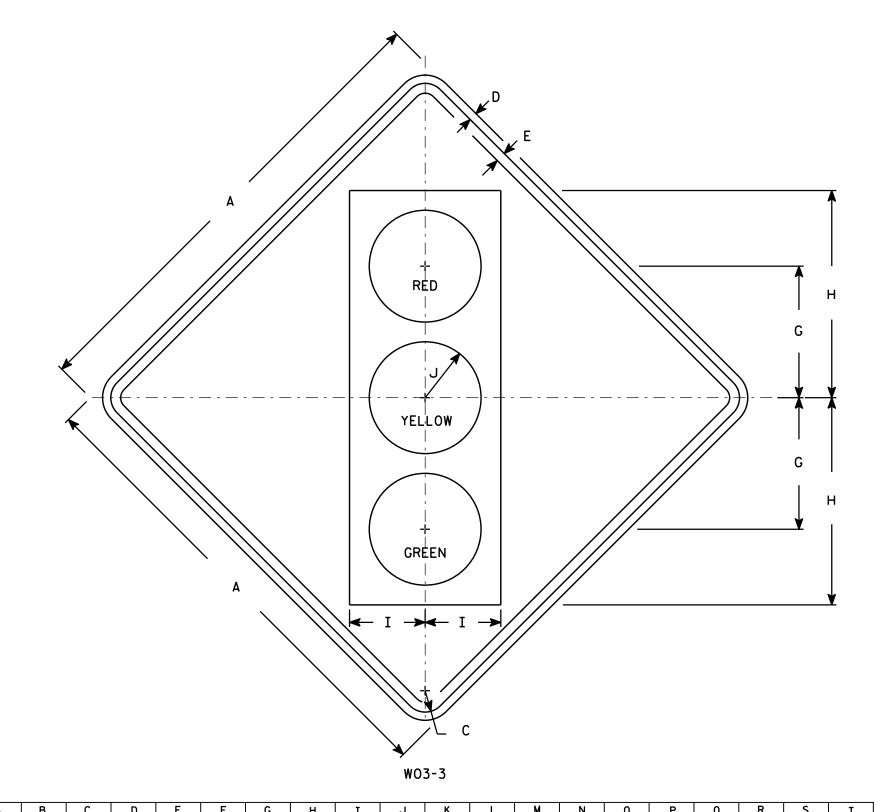
PLOT DATE : 28-FEB-2014 11:37

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.837526:1.000000

WISDOT/CADDS SHEET 42



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

Background - Orange 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. Symbol and border are non-reflective black. Top circle - Type H Reflectorized Red Center circle - Same as background Bottom circle - Type H Reflectorized Green

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

COUNTY:

STANDARD SIGN WO3 - 3

WISCONSIN DEPT OF TRANSPORTATION

DATE 11/20/13 PLATE NO. WO3-3.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W033.DGN

HWY:

PROJECT NO:

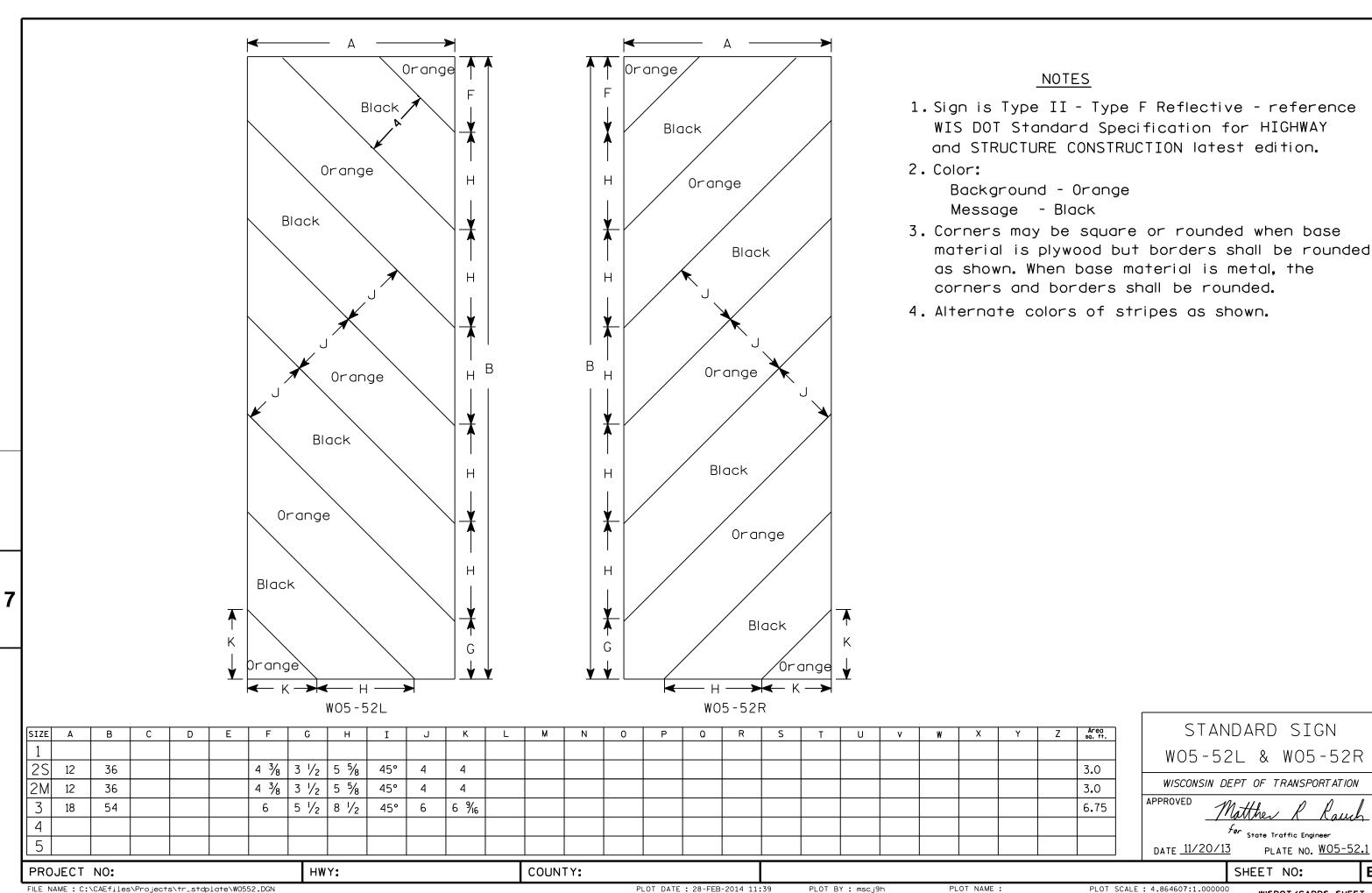
PLOT DATE: 20-NOV-2013 11:26

PLOT NAME :

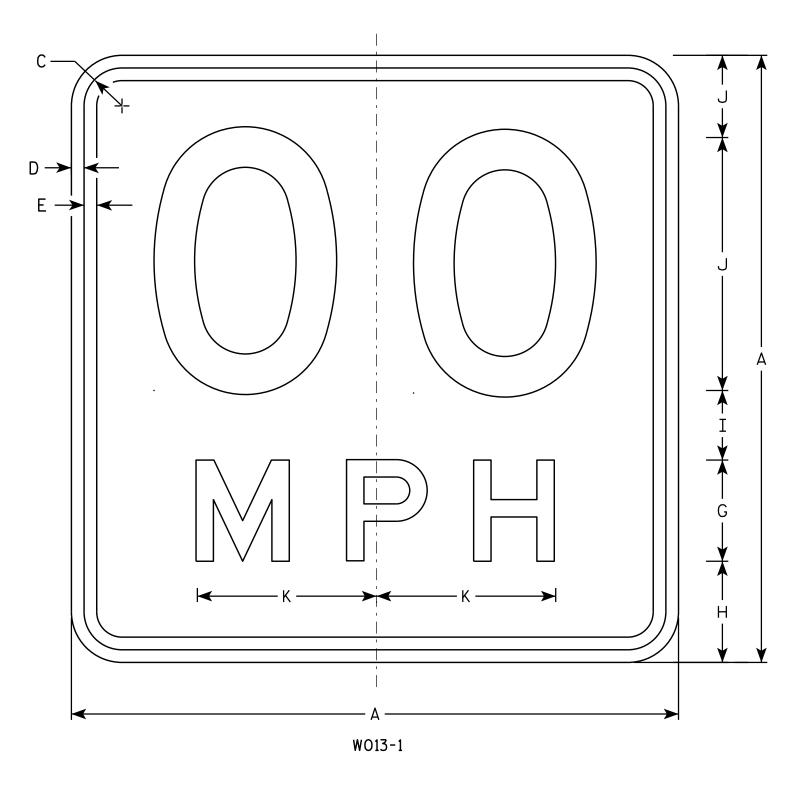
PLOT BY: mscsja

WISDOT/CADDS SHEET 42

PLOT SCALE: 7.296908:1.000000



PLOT NAME : PLOT SCALE: 4.864607:1.000000



<u>NOTES</u>

- 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 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	К	L	М	N	0	Ρ	0	R	S	T	U	٧	₩	X	Y	Z	Areg sq. ft.
1	24		1 1/8	3∕8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 %	5/8	₹4	16	6	5 1/2	4	4 1/2	10 %																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
3	36		1 %	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
5	36		1 %	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00

COUNTY:

STANDARD SIGN W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 11/21/13 PLATE NO. WO13-1.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W0131.DGN

HWY:

PROJECT NO:

PLOT DATE: 02-DEC-2013 13:55

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.794391:1.000000

WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type F Reflective
- 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.
- 5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

W057-52

HWY:

* See note 5

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 %	10 %	11 3/8	2	12													6.0
25	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0

COUNTY:

STANDARD SIGN W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 3/21/17

PLATE NO. W057-52.2

....

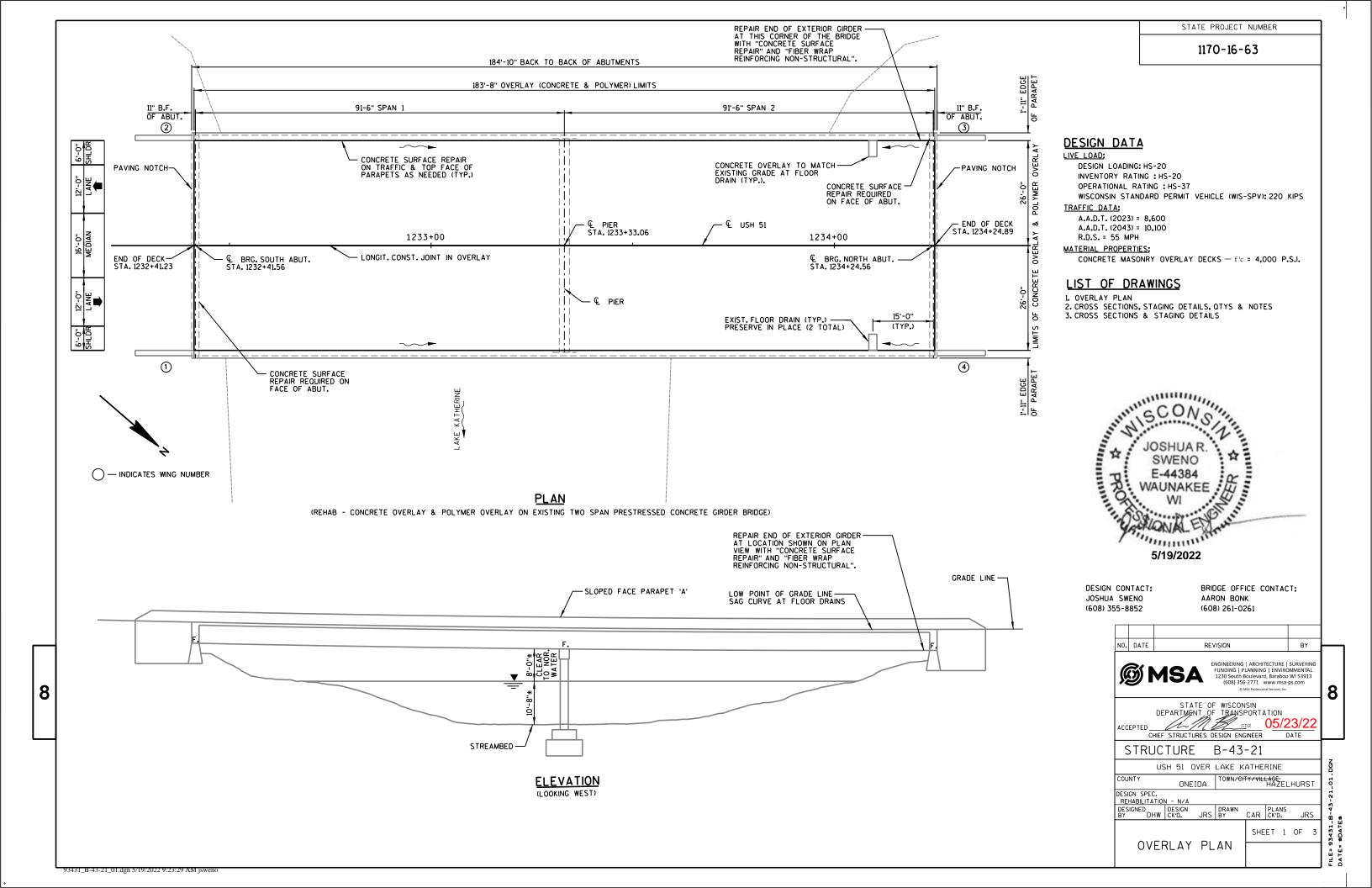
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W05752.DGN

PROJECT NO:

PLOT DATE: 21-MAR-2017 08:53

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

PLOT SCALE: 8.139174:1.000000



STATE PROJECT NUMBER

GENERAL NOTES

1170-16-63

DRAWINGS SHALL NOT BE SCALED.

SEE ROAD PLANS FOR TRAFFIC CONTROL.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE

IMPROVEMENTS INCLUDE A POLYMER OVERLAY AND A CONCRETE OVERLAY OF THE BRIDGE DECK, DECK REPAIRS, AND ABUTMENT & PARAPET SURFACE

PIGMENTED SURFACE SEALER RESEAL SHALL BE APPLIED TO THE FRONT & TOP FACES OF THE EXISTING CONCRETE PARAPETS INCLUDING PARAPETS ON ABUTMENT WINGS.

THE EXISTING CONCRETE OVERLAY & ANTI-ICING OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER THE BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY B-43-21".

THIS PROJECT WILL REHABILITATE THE EXISTING STRUCTURE, B-43-21, A TWO-SPAN, 184.8' LONG PRESTRESSED CONCRETE GIRDER BRIDGE ON CONCRETE SILL ABUTMENTS AND ON A CONCRETE SOLID SHAFT PIER.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1/2" PLACED ABOVE THE DECK SURFACE AFTER "REMOVING CONCRETE MASONRY DECK OVERLAY". EXPECTED AVERAGE OVERLAY THICKNESS IS 23/4". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY REPAIRS AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION REPAIR AREAS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

"CONCRETE SURFACE REPAIR" REQUIRED ON THE PARAPETS, ABUTMENTS, AND GIRDER, AND AS DIRECTED BY THE ENGINEER.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

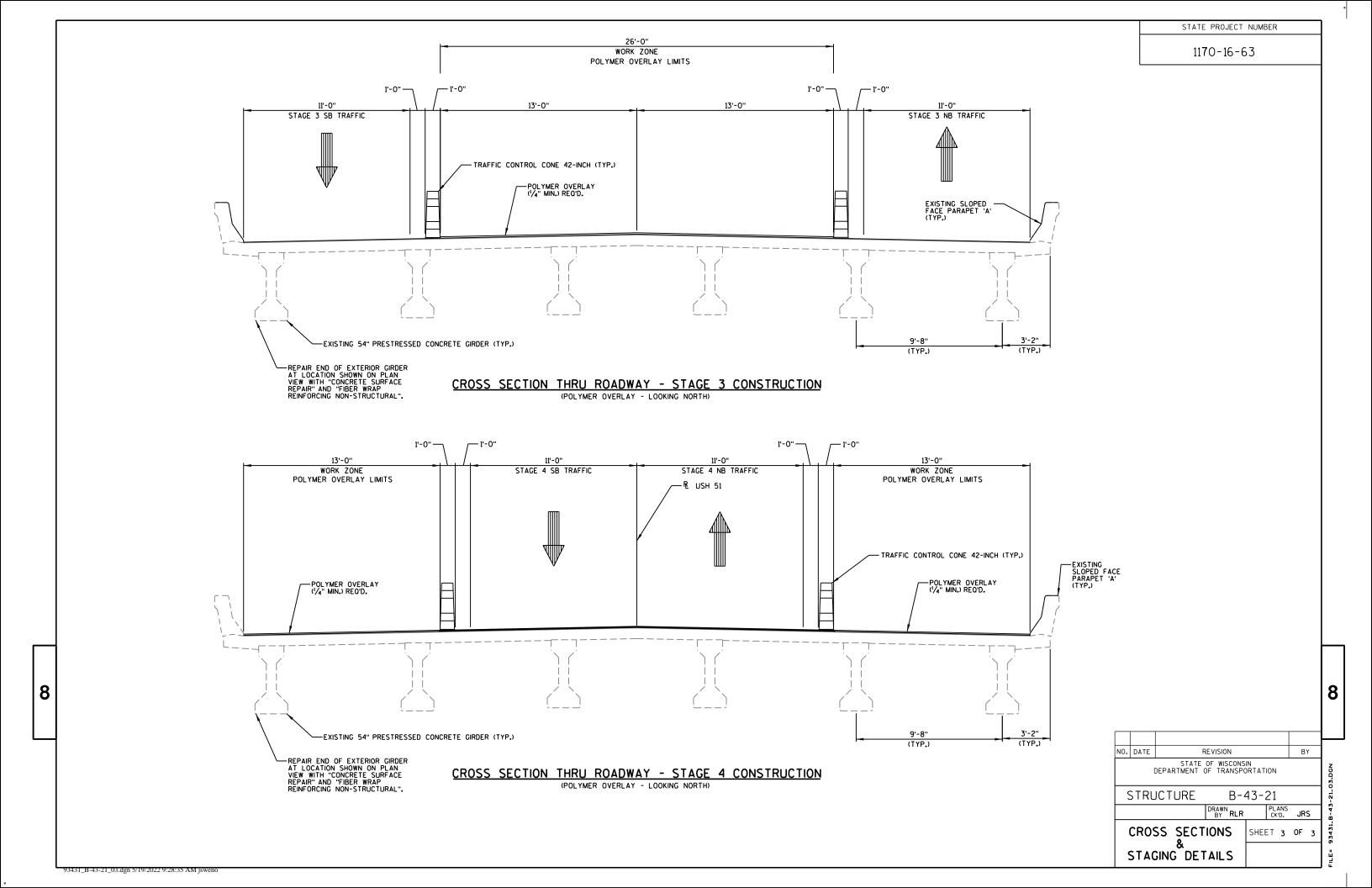
REPAIR CRACKS IN ABUTMENTS USING EPOXY INJECTION CRACK REPAIR AT LOCATIONS APPROVED BY THE ENGINEER.

TOTAL ESTIMATED QUANTITIES

	ITEM NUMBER	BID ITEM	UNIT	TOTAL
	203.0335.01	DEBRIS CONTAINMENT OVER WATERWAY B-43-21	EACH	1
	502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	181
X	509.0301	PREPARATION DECKS TYPE 1	SY	53
×	509.0302	PREPARATION DECKS TYPE 2	SY	21
	509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	1061
X	509.1500	CONCRETE SURFACE REPAIR	SF	500
X	509.2000	FULL-DEPTH DECK REPAIR	SY	1
	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	81
	509.5100.S	POLYMER OVERLAY	SY	1061
	509.9005.S.01	REMOVING CONCRETE MASONRY DECK OVERLAY B-43-21	SY	1061
	509.9020.S	EPOXY CRACK SEALING	LF	20
	SPV.0165.01	FIBER WRAP REINFORCING NON-STRUCTURAL	SF	10

X-THE CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION OF ALL DECK REPAIR AND SURFACE REPAIR LOCATIONS WITH THE ENGINEER.

NO.	DATE		R	EVISION			B.	Υ	
	[OF WISCONS OF TRANSPO		ION			
_ <	STRL	JCTUR	E	B-4	43-	21			
				DRAWN BY CAR		PLANS CK'D.	JR	s	
		SS SEC			SHE	ET 2	OF	3	
3		ING D							



Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov