FEDERAL PROJECT **JUNE 2017** STATE PROJECT STATE OF WISCONSIN ORDER OF SHEETS 7600-00-71 Section No. 1 DEPARTMENT OF TRANSPORTATION Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Ö Section No. 4 Right of Way Plat Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings MENOMONIE, BROADWAY STREET Sign Plates 0 Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data RED CEDAR RIVER BRIDGE B-17-0638 Section No. 9 Cross Sections USH 12 TOTAL SHEETS = 68 **DUNN COUNTY** STATE PROJECT NUMBER R - 12 - WR-13-W 7600-00-71 APPROVED FOR CITY OF MENOMONIE r670TH AVE 17 JAN 17 END PROJECT 7600-00-71 STA 200+74.02 ORIGINAL PLANS PREPARED BY 350TH AVE DESIGN DESIGNATION T-28-N 620TH AVE A.A.D.T. 2018 = 22,200 A.A.D.T. 2038 = 25,600 D.H.V. = 2,810 D.D. = 59/41 = 9.2% DESIGN SPEED = 40 MPH B-17-0638 **ESALS** = N/A CONVENTIONAL SYMBOLS 1 AVE PROFILE PLAN GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE 530TH AVE MARSH OR ROCK PROFILE 01-11-2017 Bradly Can enomonie LOT LINE (To be noted as such) SPECIAL DITCH LIMITED HIGHWAY EASEMENT STATE OF WISCONSIN EXISTING RIGHT OF WAY BEGIN PROJECT 7600-00-71 GRADE ELEVATION DEPARTMENT OF TRANSPORTATION PROPOSED OR NEW R/W LINE STA 192+46.01 CULVERT (Profile View) SLOPE INTERCEPT Y: 173109.7392 PREPARED BY 190TH AVE400TI UTILITIES X: 161026.3544 Surveyor 490TH AVE REFERENCE LINE ELECTRIC EXISTING CHILVERT FIBER OPTIC PROPOSED CULVERT GAS (Box or Pipe) SANITARY SEWER Regional Supervisor. COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE SCALE COORDINATES ON THIS PLAN ARE REFERENCED TO THE WATER WISCONSIN COUNTY COORDIATE SYSTEM (WCCS), DUNN MARSH AREA

LITH ITY PEDESTAL

TELEPHONE POLE

POWER POLE

WOODED OR SHRUB AREA

TOTAL NET LENGTH OF CENTERLINE = 0.157

WISCOR DATUM (NAVD 88 2012)

COUNTY NAD83 (2011)

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE

KL ENGINEERING

KL ENGINEERING

TYLER RONGSTAD

TOU YANG

BRADLEY J.

CUNNINGHAM

37935-006 MT. HOREB, CONTRACT

PROJECT



XCEL ENERGY - GAS/PETROLEUM MIKE JOHNSEN 320 HELLER ROAD MENOMONIE, WI 54751 (715) 232-7415 michael.a.johnsen@xcelenergy.com

24-HOUR EMERGENCY (800) 895-2999

XCEL ENERGY - ELECTRIC TRANSMISSION PAM TAYLOR 1414 WEST HAMILTON AVENUE PO BOX 8 EAU CLAIRE, WI 54702 (715) 737-1306 Pamela.L.Taylor@XcelEnergy.com

CHARTER COMMUNICATIONS - COMMUNICATION SHANE YODER 1201 MCCANN DRIVE ALTOONA, WI 54720 (715) 831-8940 EXT. 51113 Shane.yoder@charter.com

AT&T WISCONSIN - COMMUNICATION RICK PODOLAK AT&T WI DESIGN ENGINEERING 304 S. DEWEY STREET EAU CLAIRE, WI 54701 (715) 839-5565 rp4514@att.com

XCEL ENERGY - ELECTRICITY DAWN SCHULTZ 1414 HAMILTON AVENUE PO BOX 8 EAU CLAIRE, WI 54702 (715) 737-2482 dawn.schultz@xcelenergy.com

CITY OF MENOMONIE RANDY EIDE, P.E. DIRECTOR OF PUBLIC WORKS 800 WILSON AVENUE MENOMONIE, WI 54751 (715) 232-2207

GENERAL NOTES

CONTACT THE UTILITIES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES PRIOR TO THE START OF WORK. 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.

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

PROTECT ALL INLETS WITH PROPER INLET PROTECTION AT LOCATIONS EXHIBITING RISK OF BEING IMPACTED BY CONSTRUCTION OPERATIONS AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT THE CONTRACTORS

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WATERWAY.

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

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

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER. MATCH EXISTING SIDEWALK WIDTH.

DESIGN CONTACTS

CONSULTANT DESIGNER BRAD CUNNINGHAM, PE KL ENGINEERING, INC. 5950 SEMINOLE CENTRE COURT, SUITE 200 MADISON, WI 53711 (608) 663-1218 bcunningham@klengineering.com

DNR AREA LIAISON CHRIS WILLGER DEPARTMENT OF NATURAL RESOURCES 1300 W. CLAIREMONT STREET EAU CLAIRE, WI 54702 (715) 839-1609 christopherj.willger@wisconsin.gov

XCEL ENERGY - HYDRO MATTHEW MILLER HYDRO LICENSE COMPLIANCE CONSULTANT 1414 WEST HAMILTON AVENUE PO BOX 8 EAU CLAIRE, WI 54702 (715) 737-1353 matthew.j.miller@xcelenergy.com

PROJECT NO: 7600-00-71

HWY: USH 12

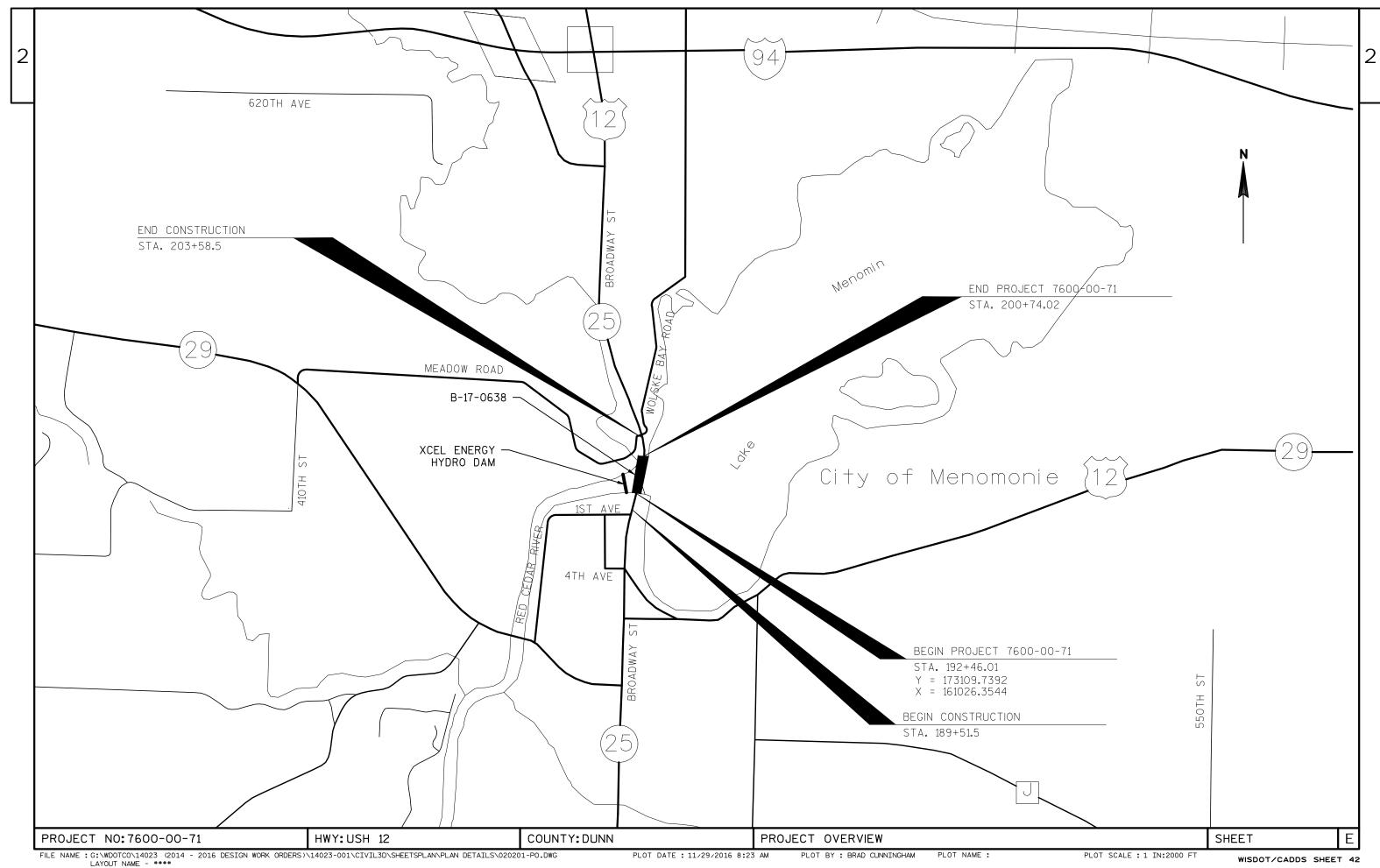
COUNTY: DUNN

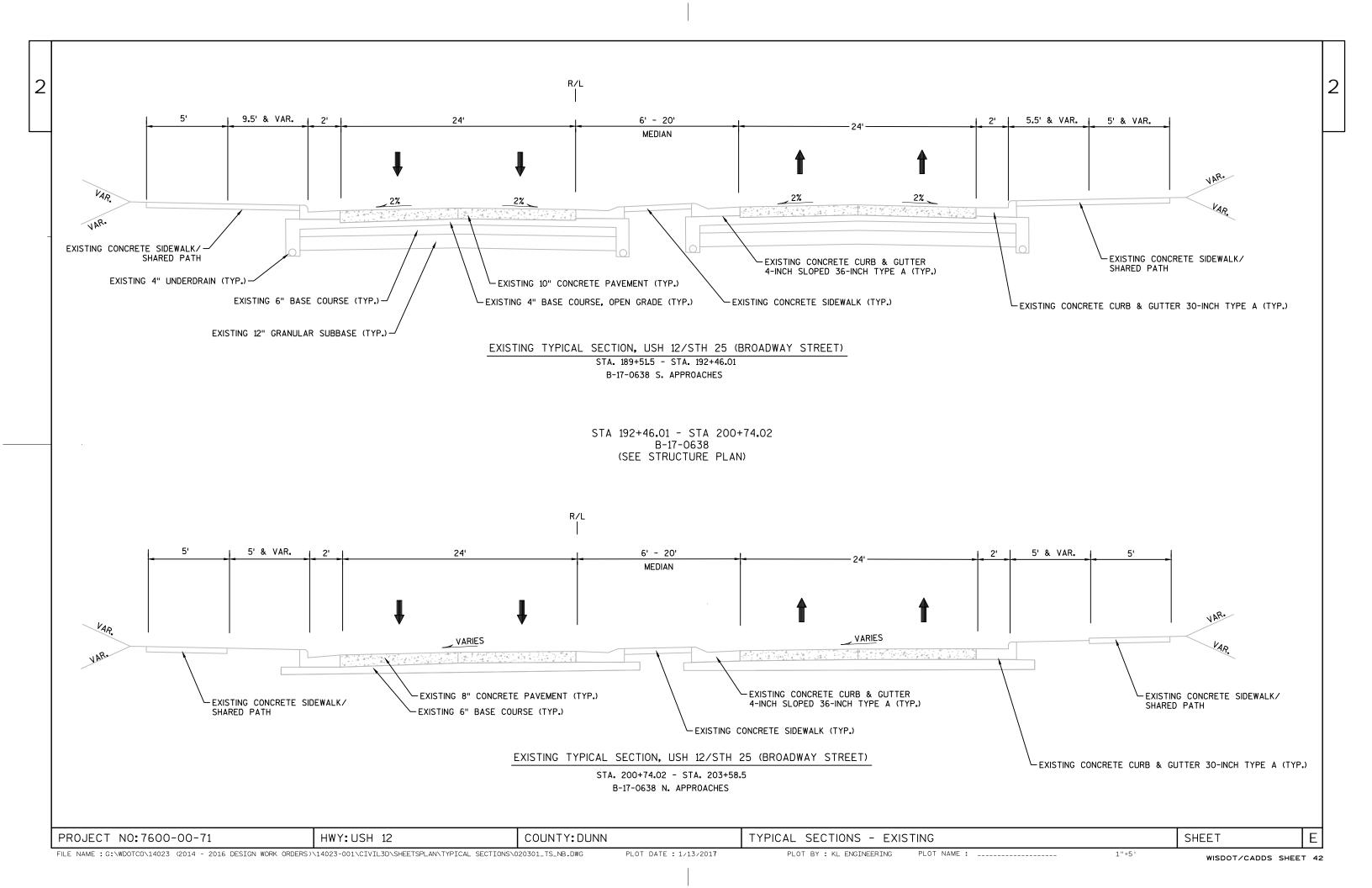
GENERAL NOTES

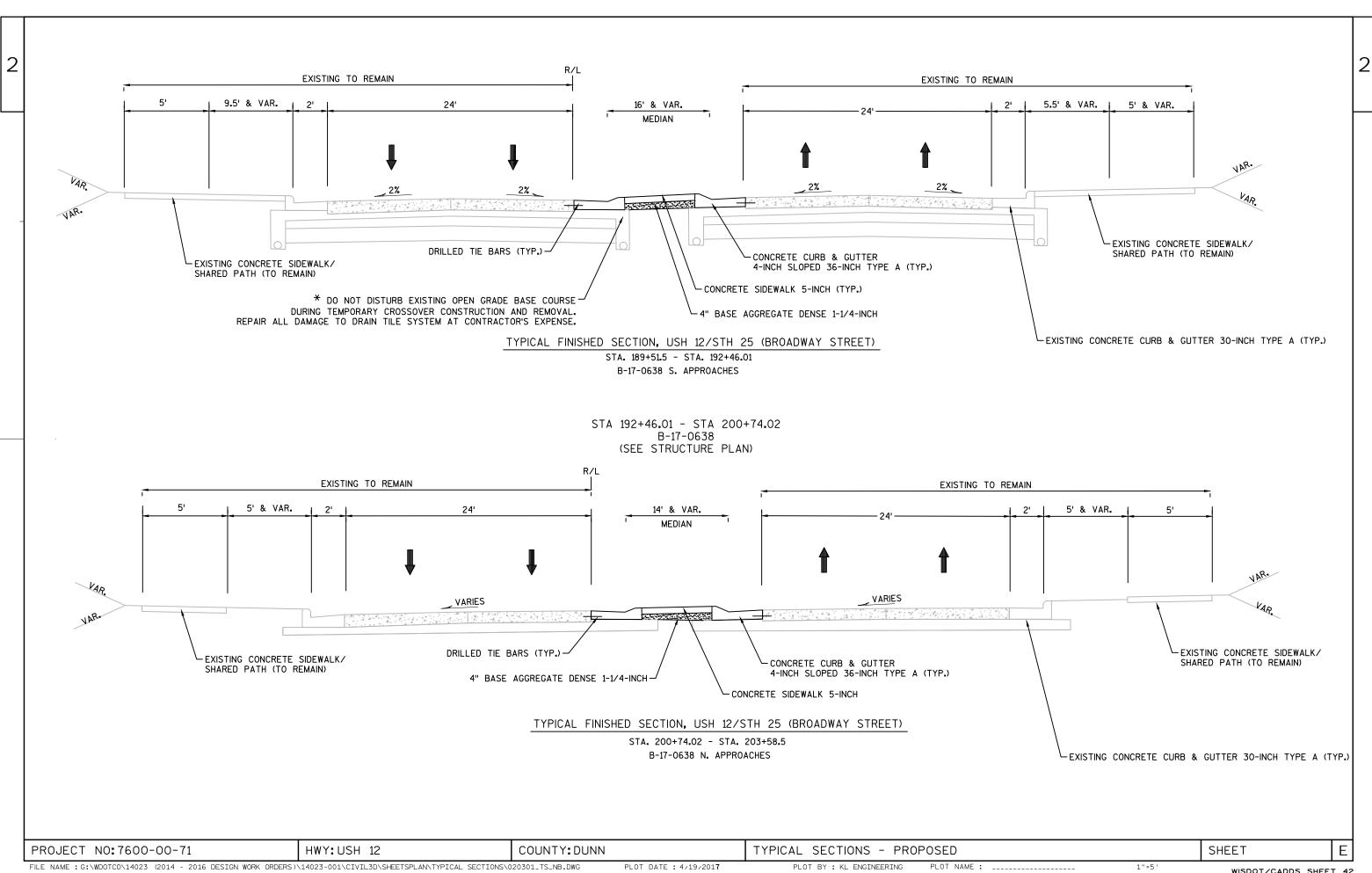
PLOT BY : BRAD CUNNINGHAM

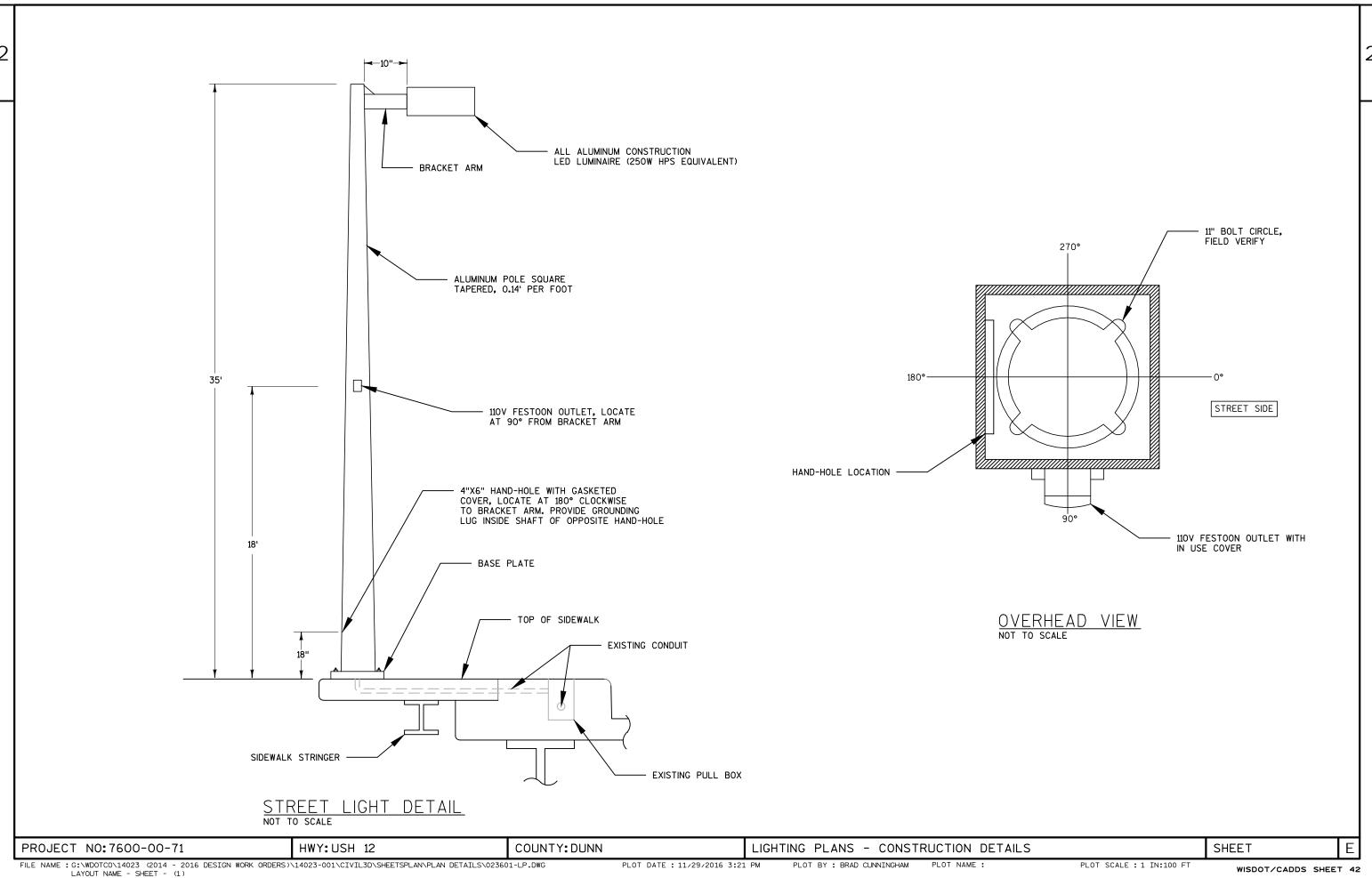
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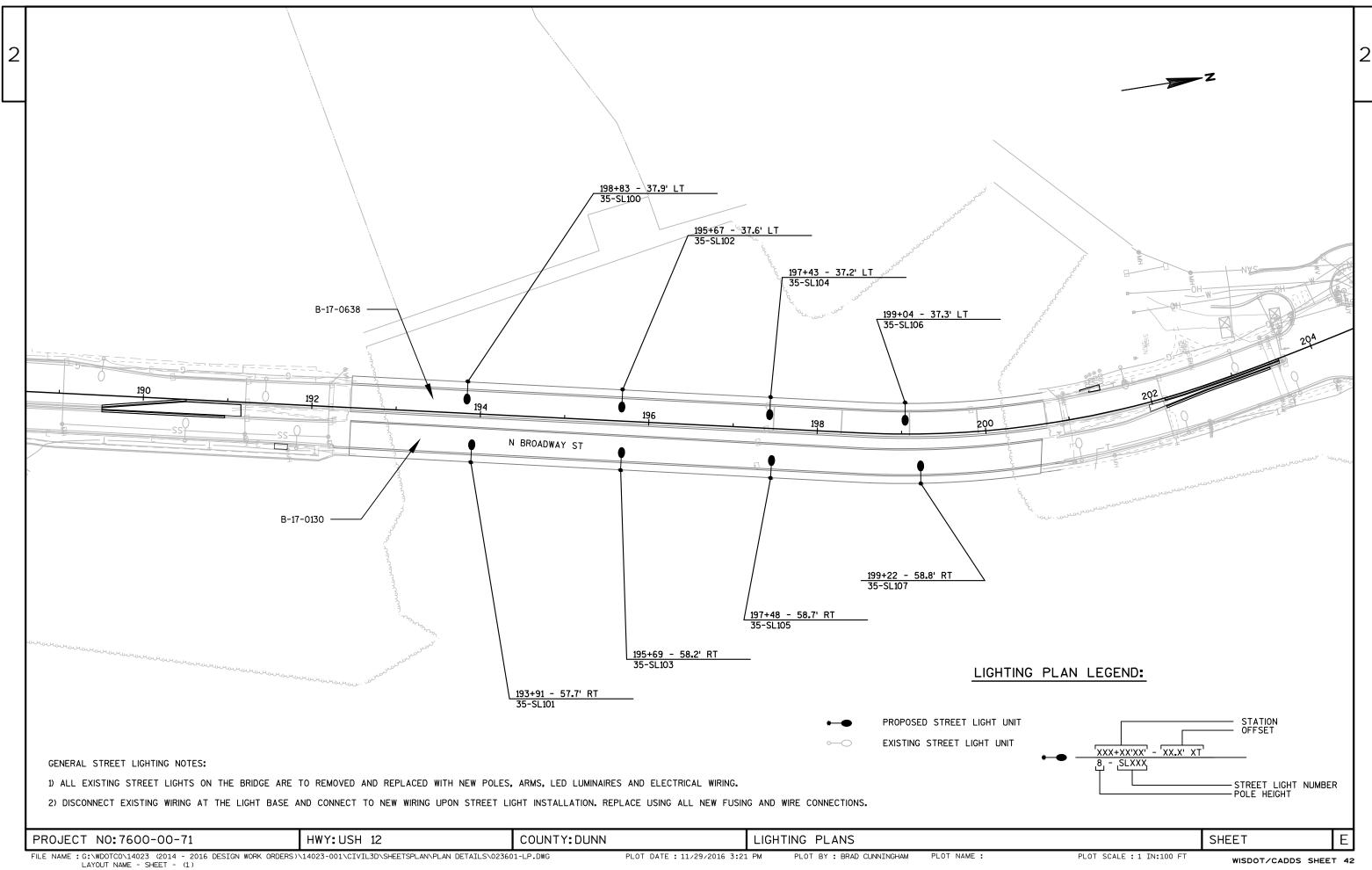
PLOT SCALE : Custom

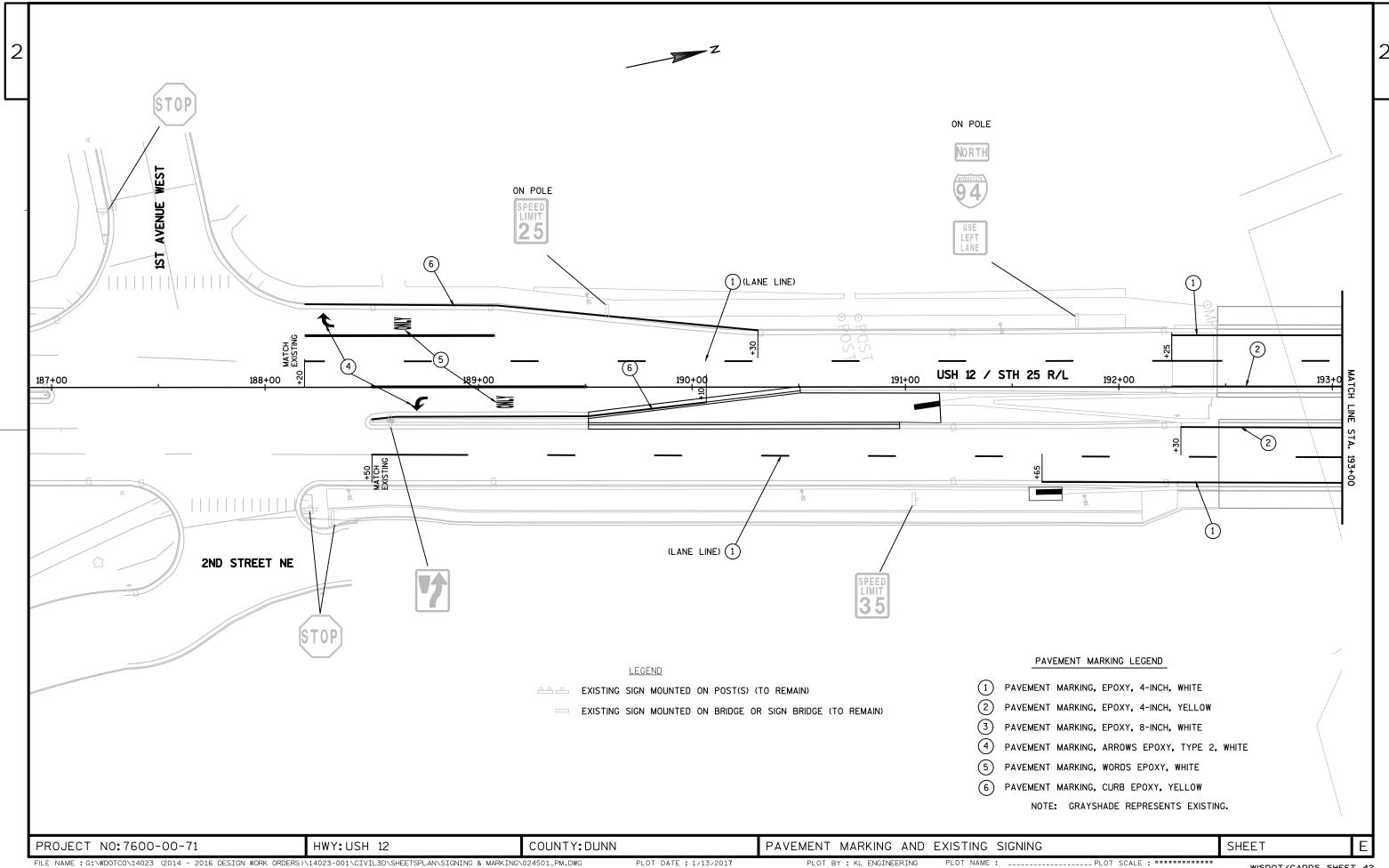


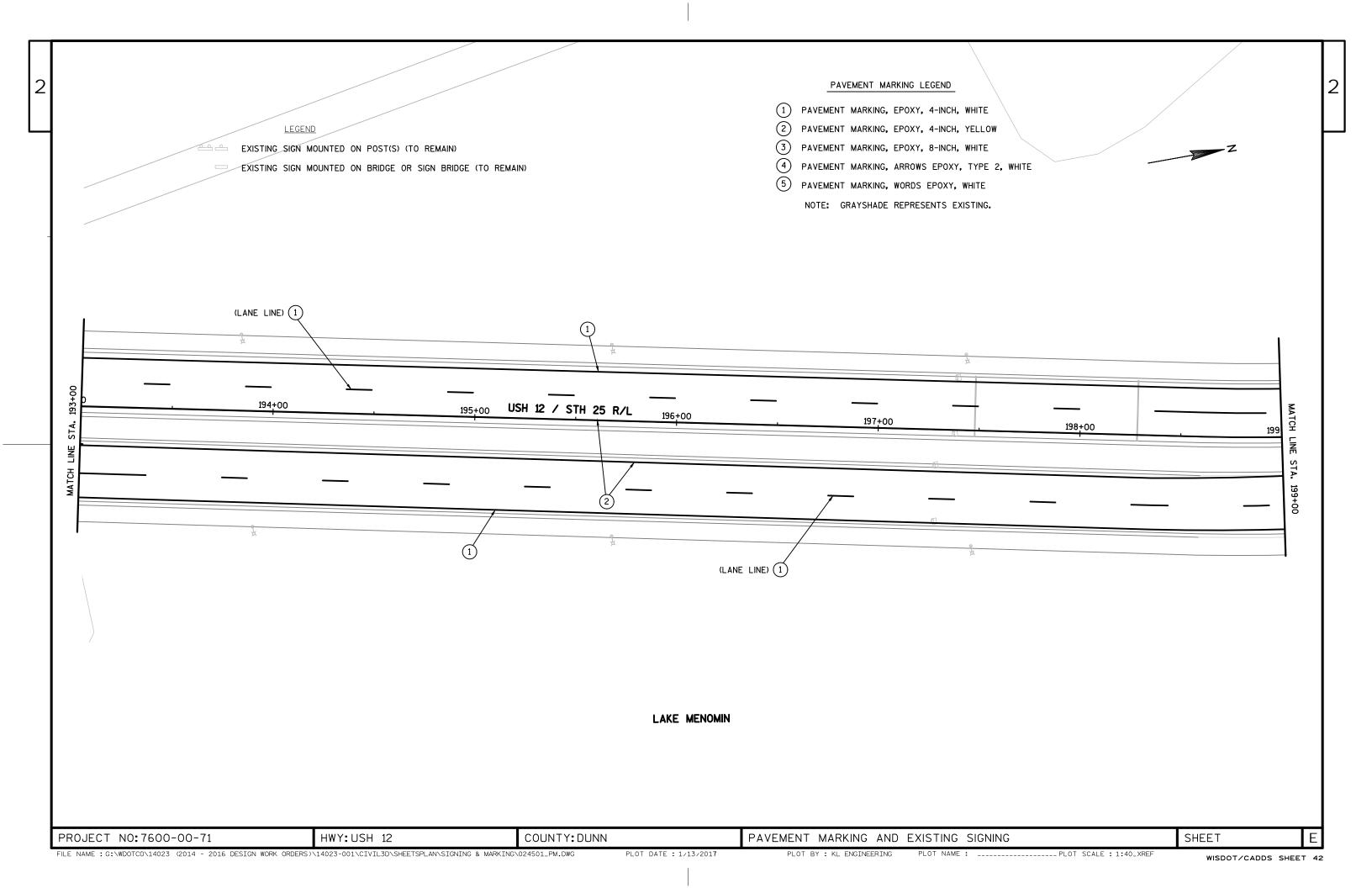


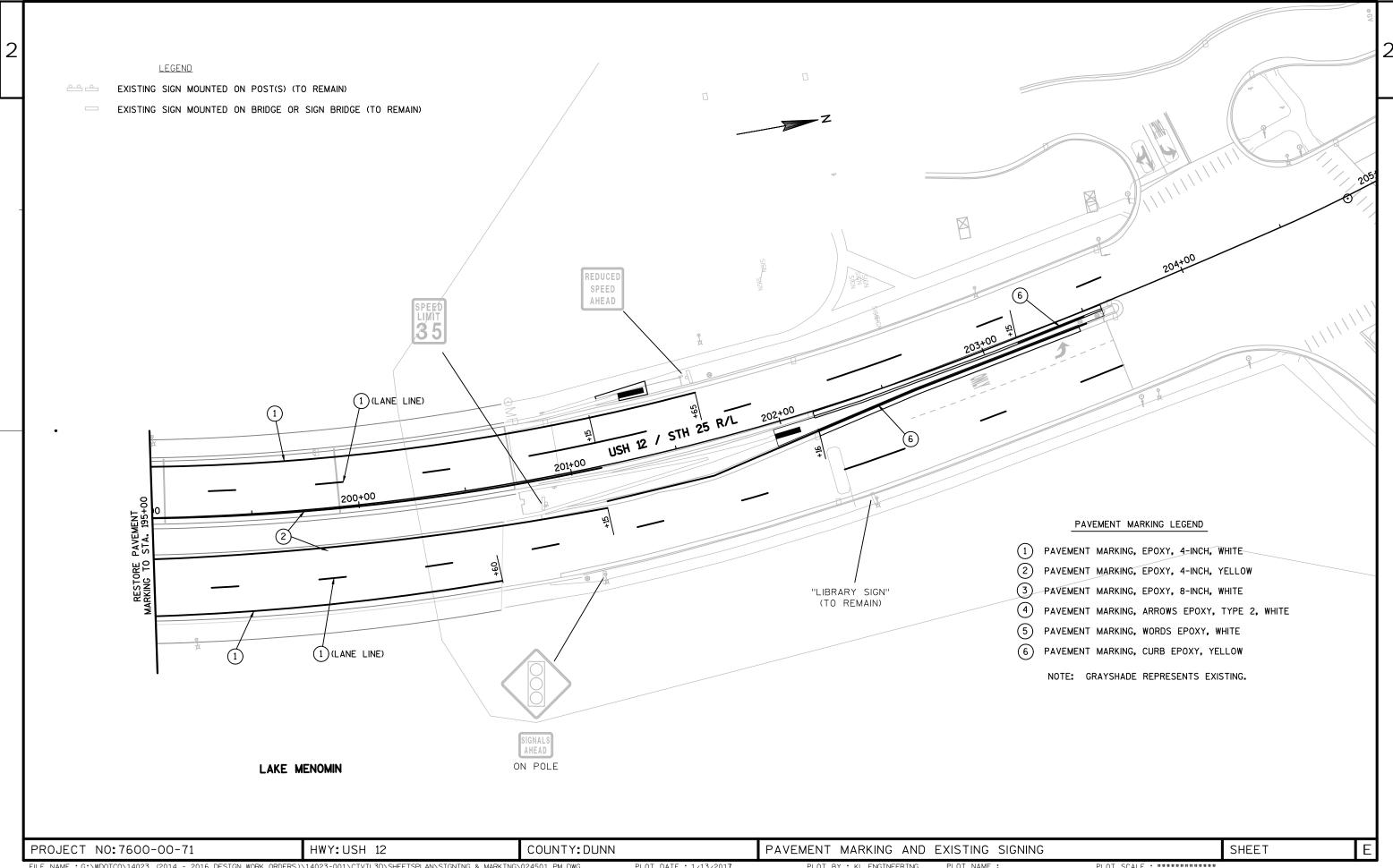


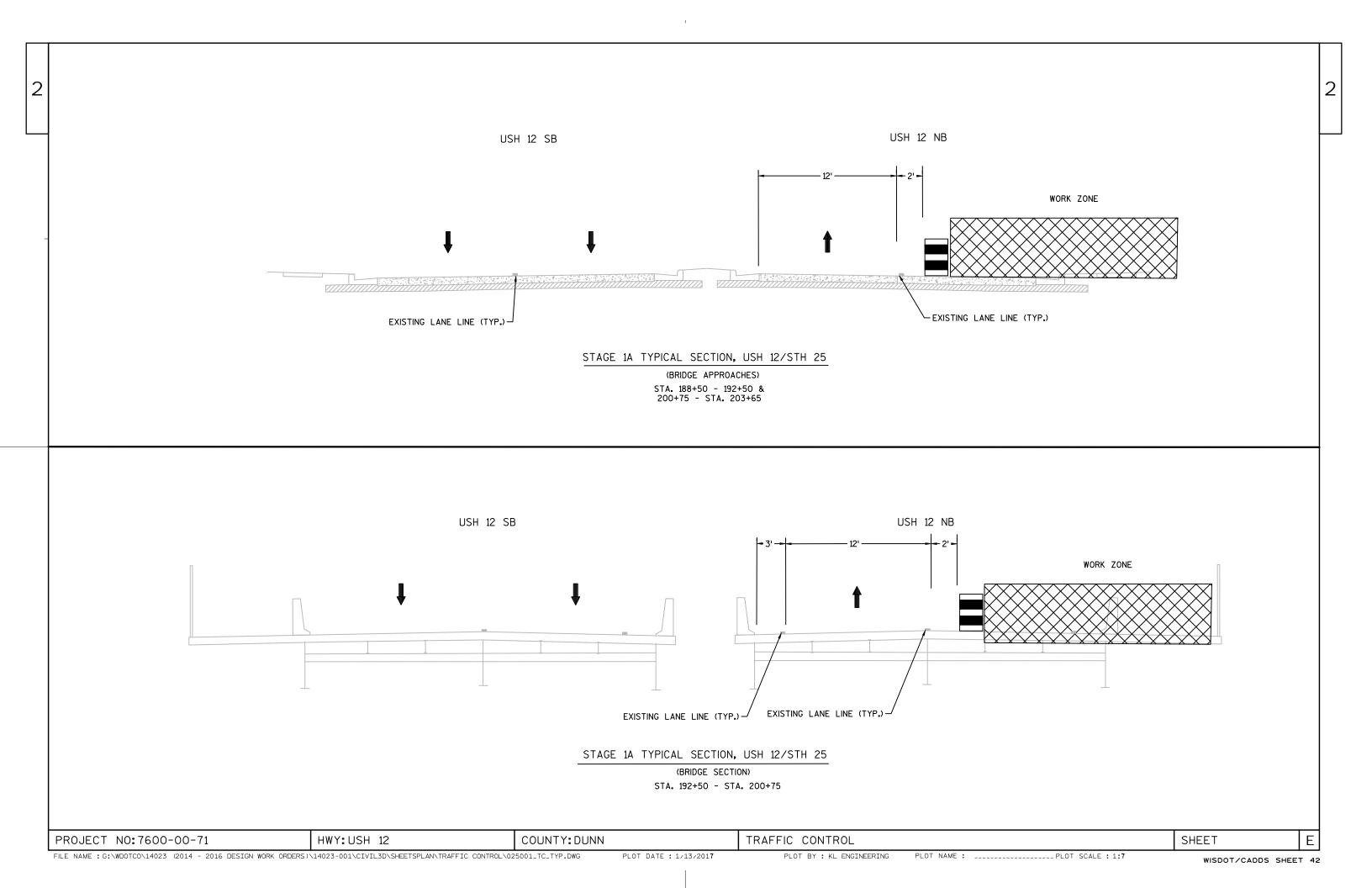


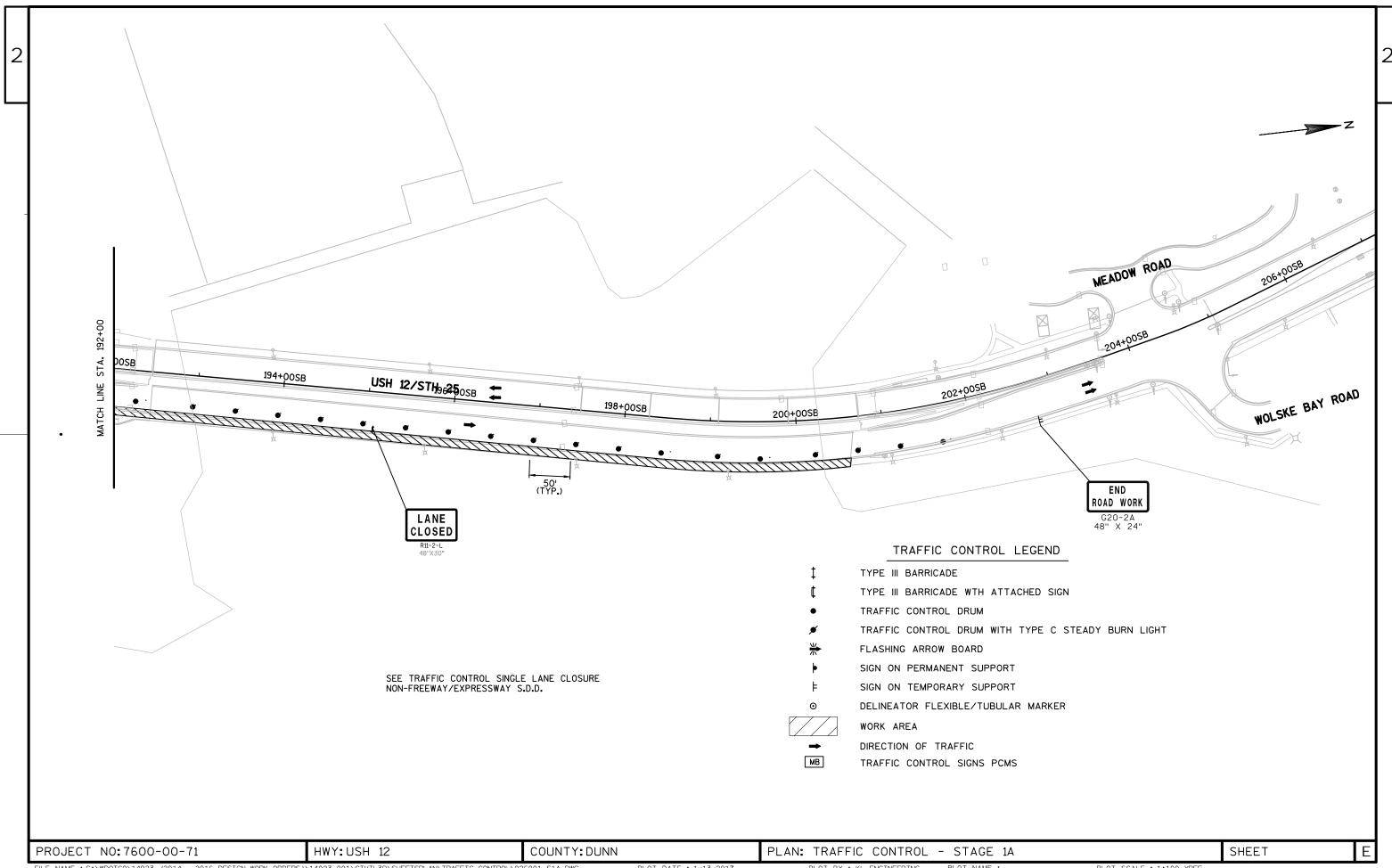


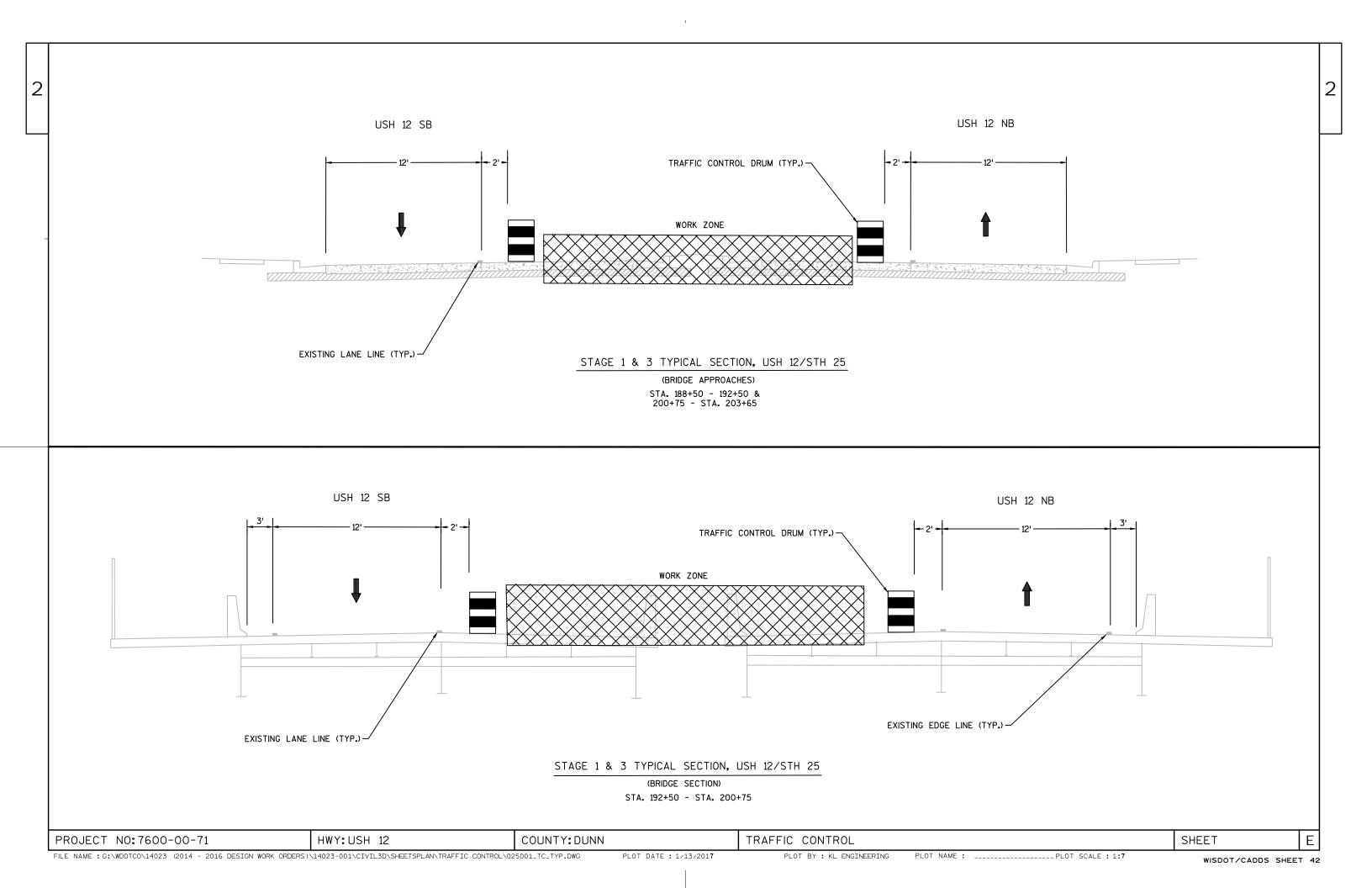


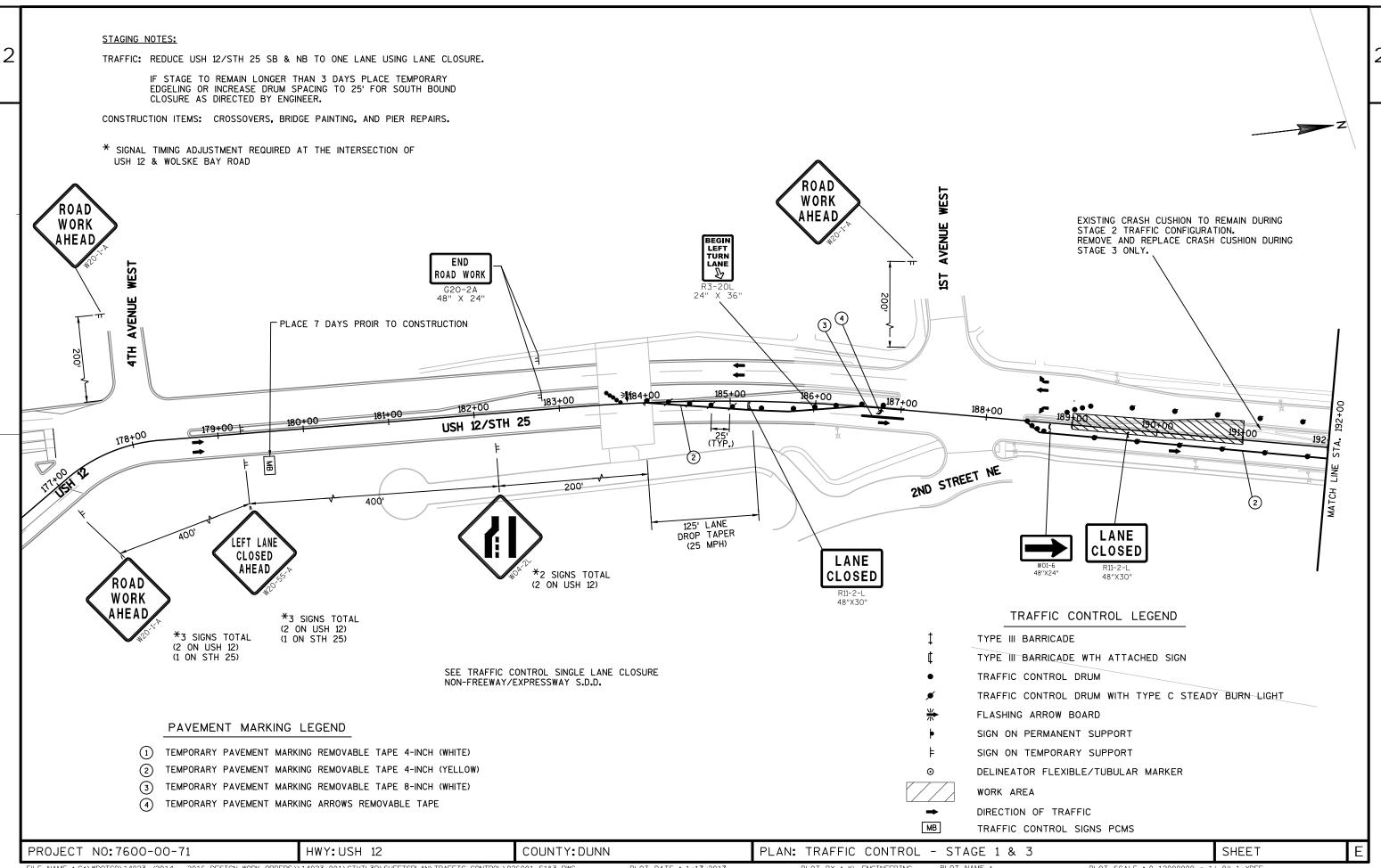


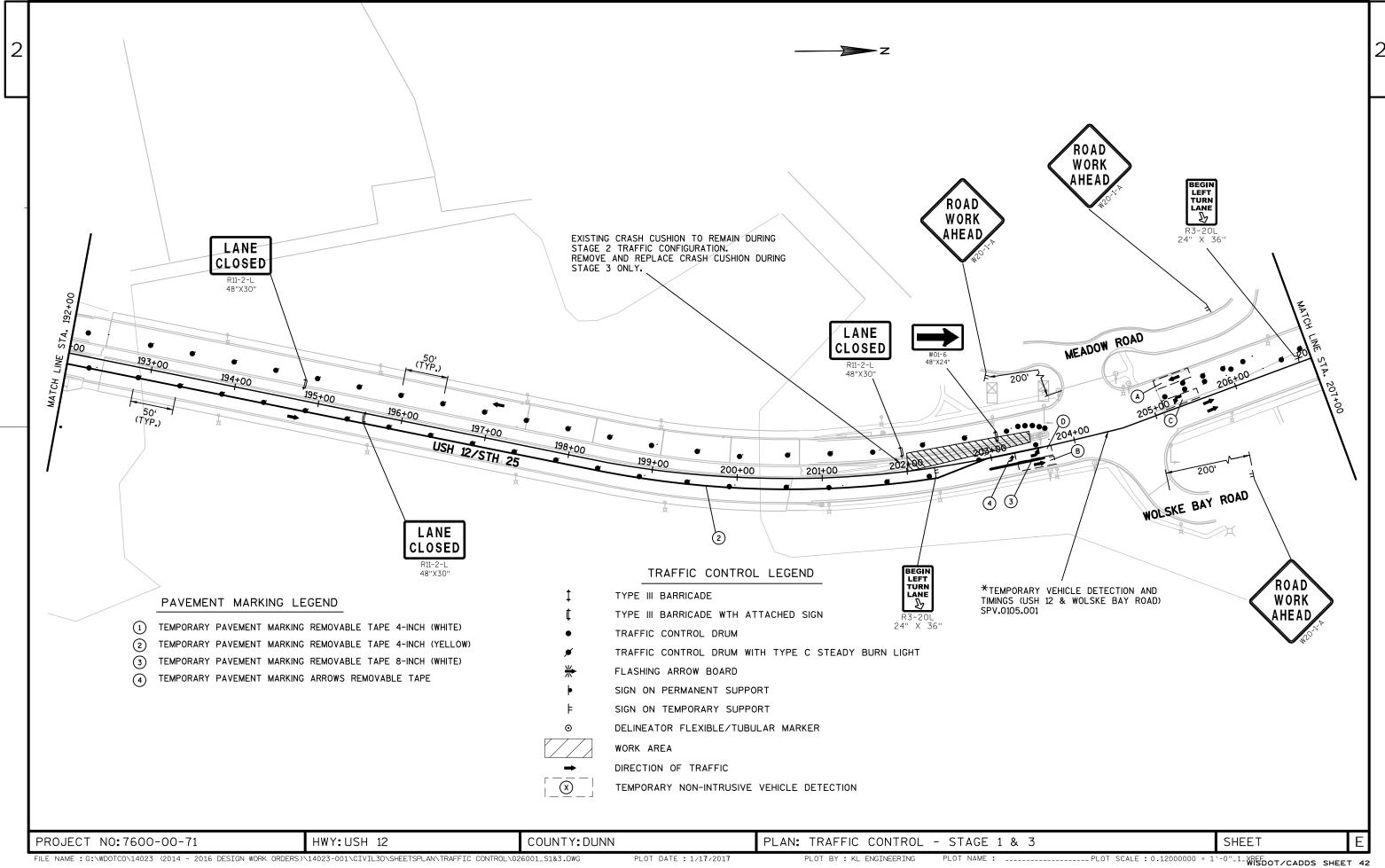


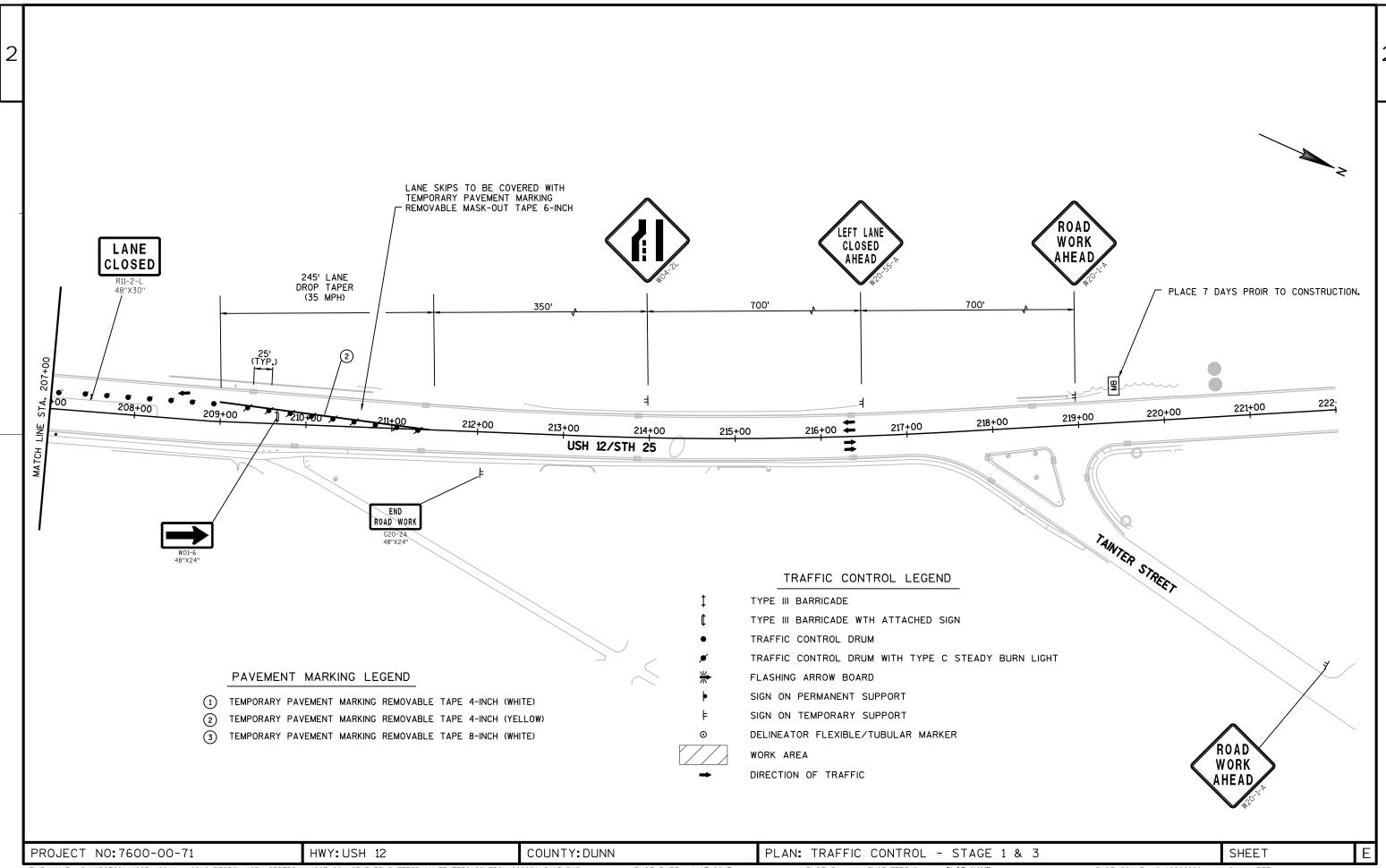


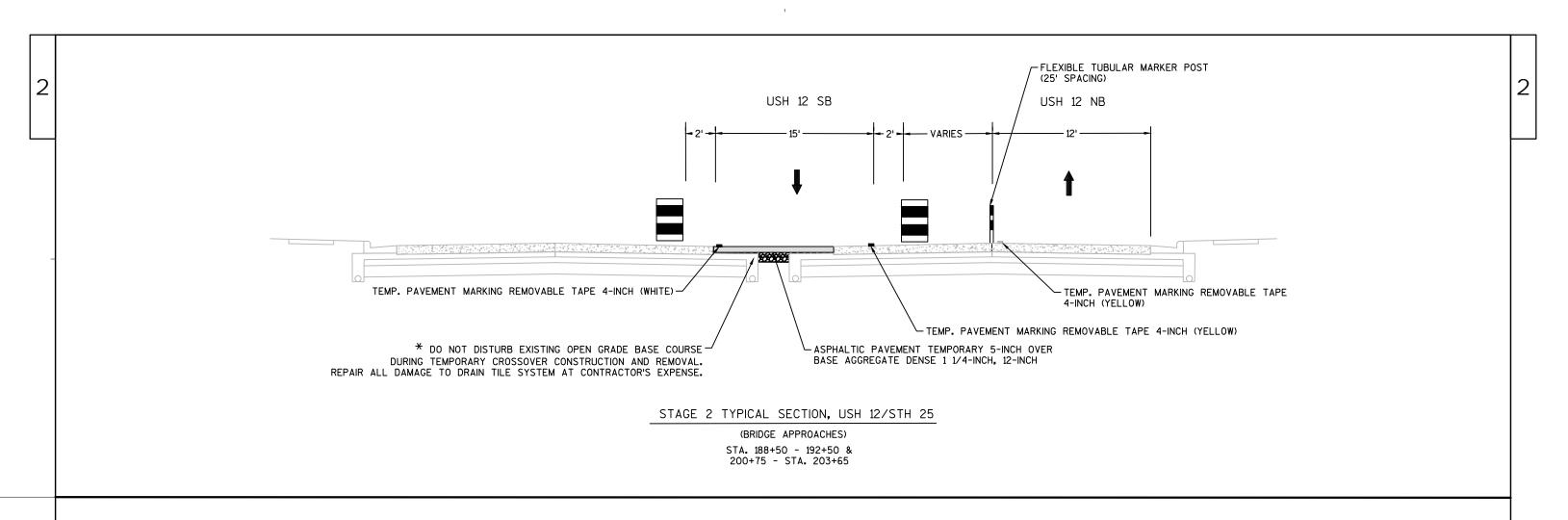


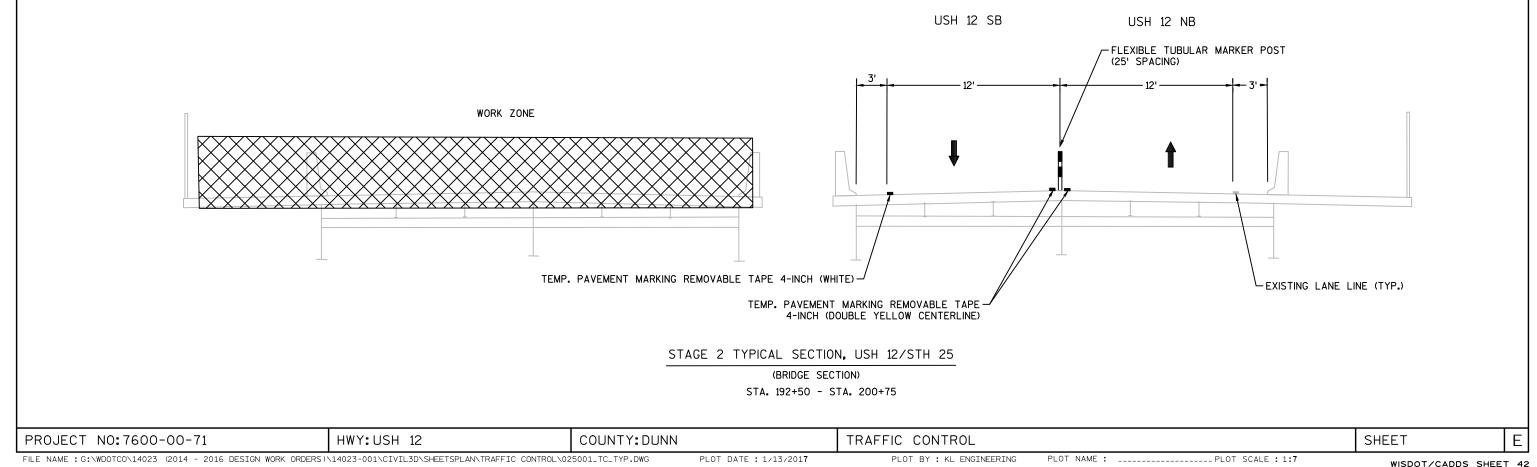


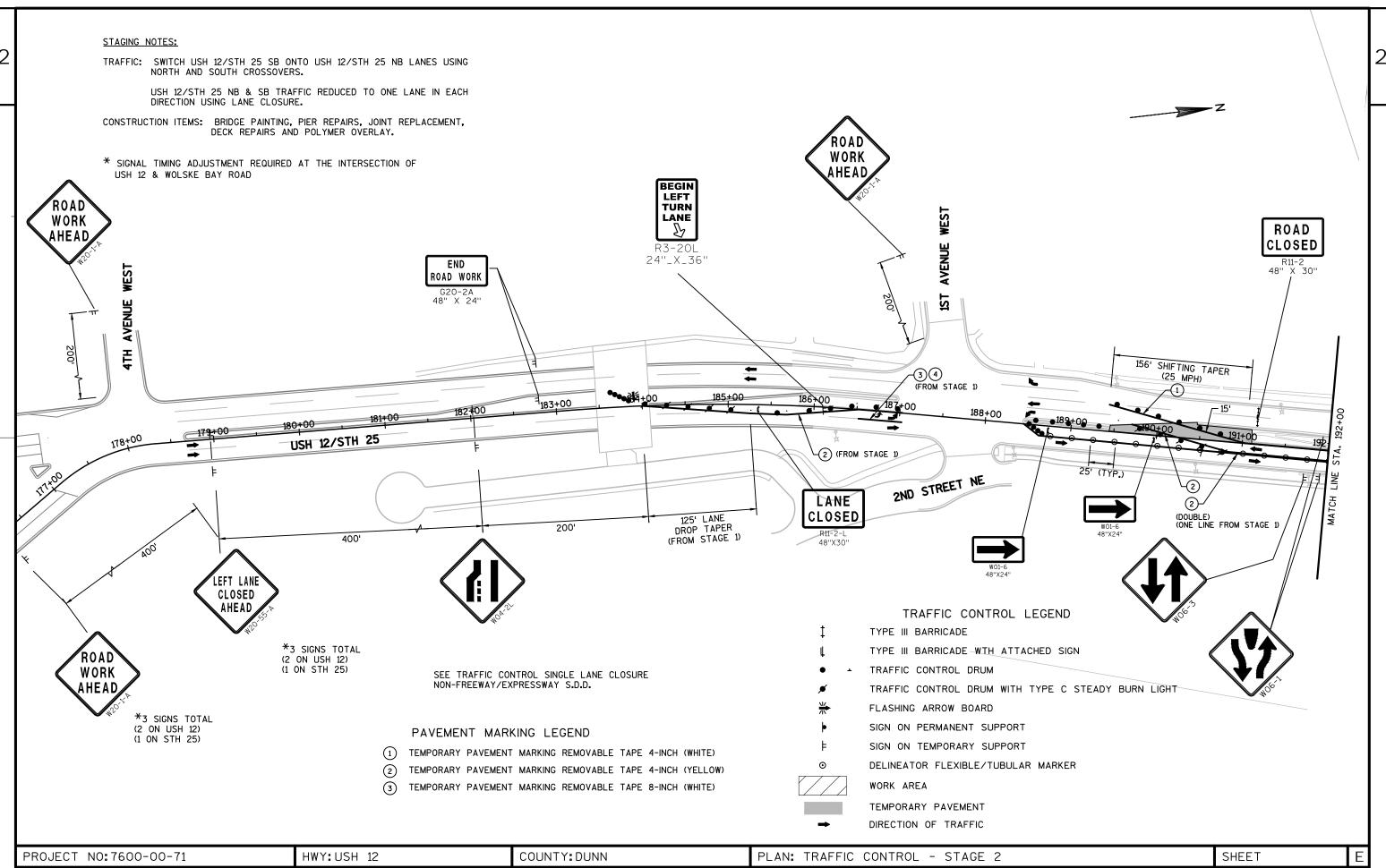


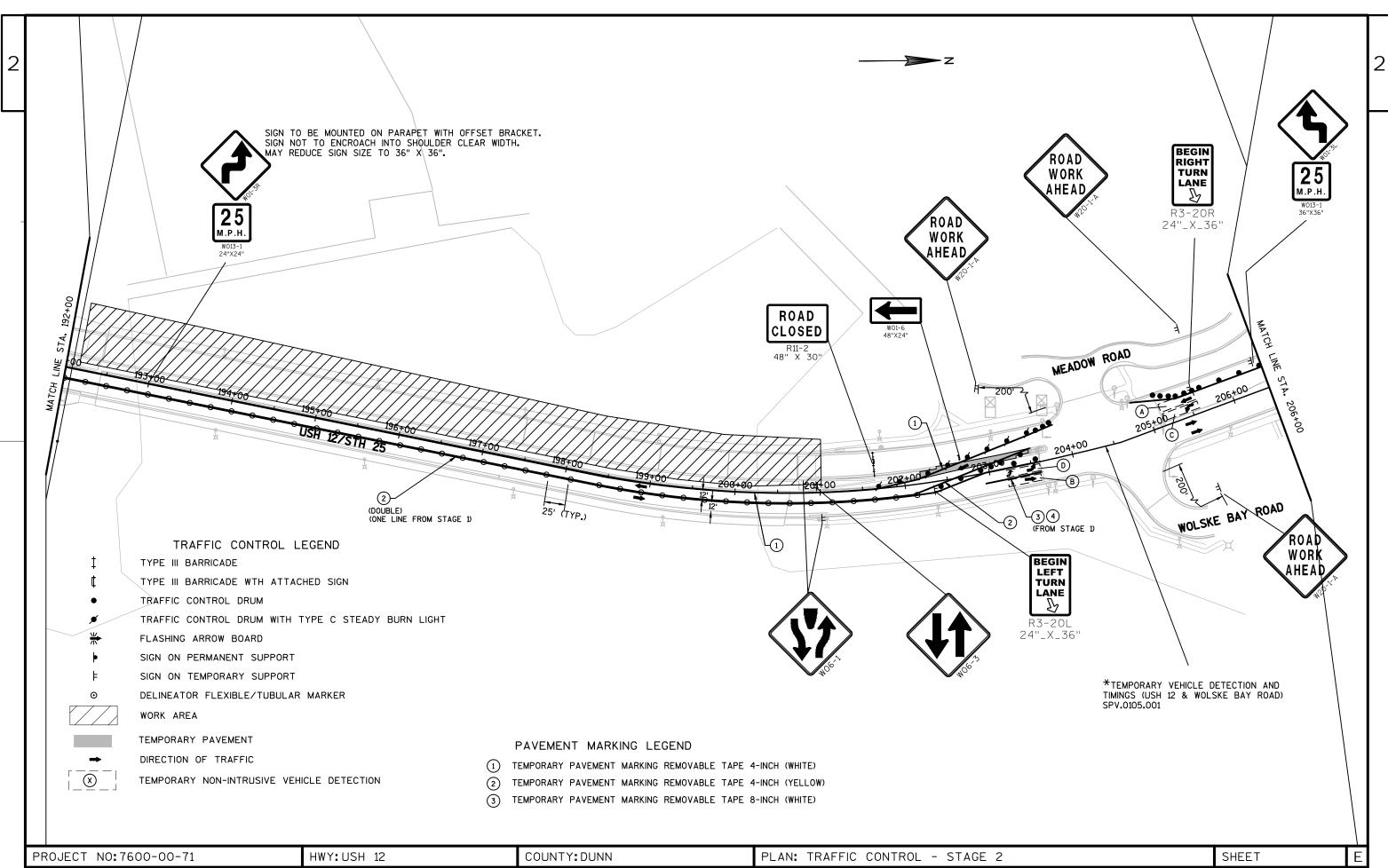


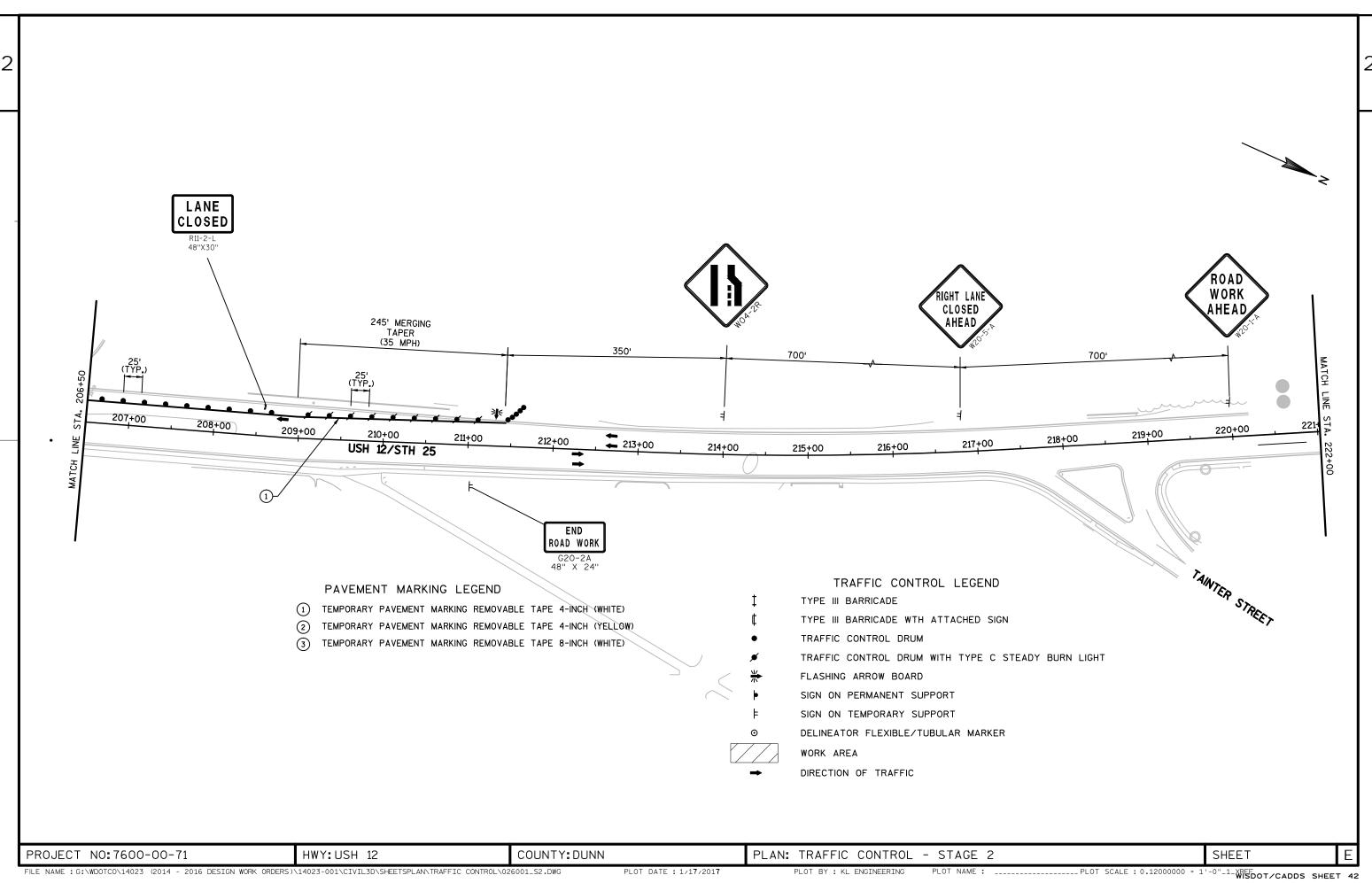


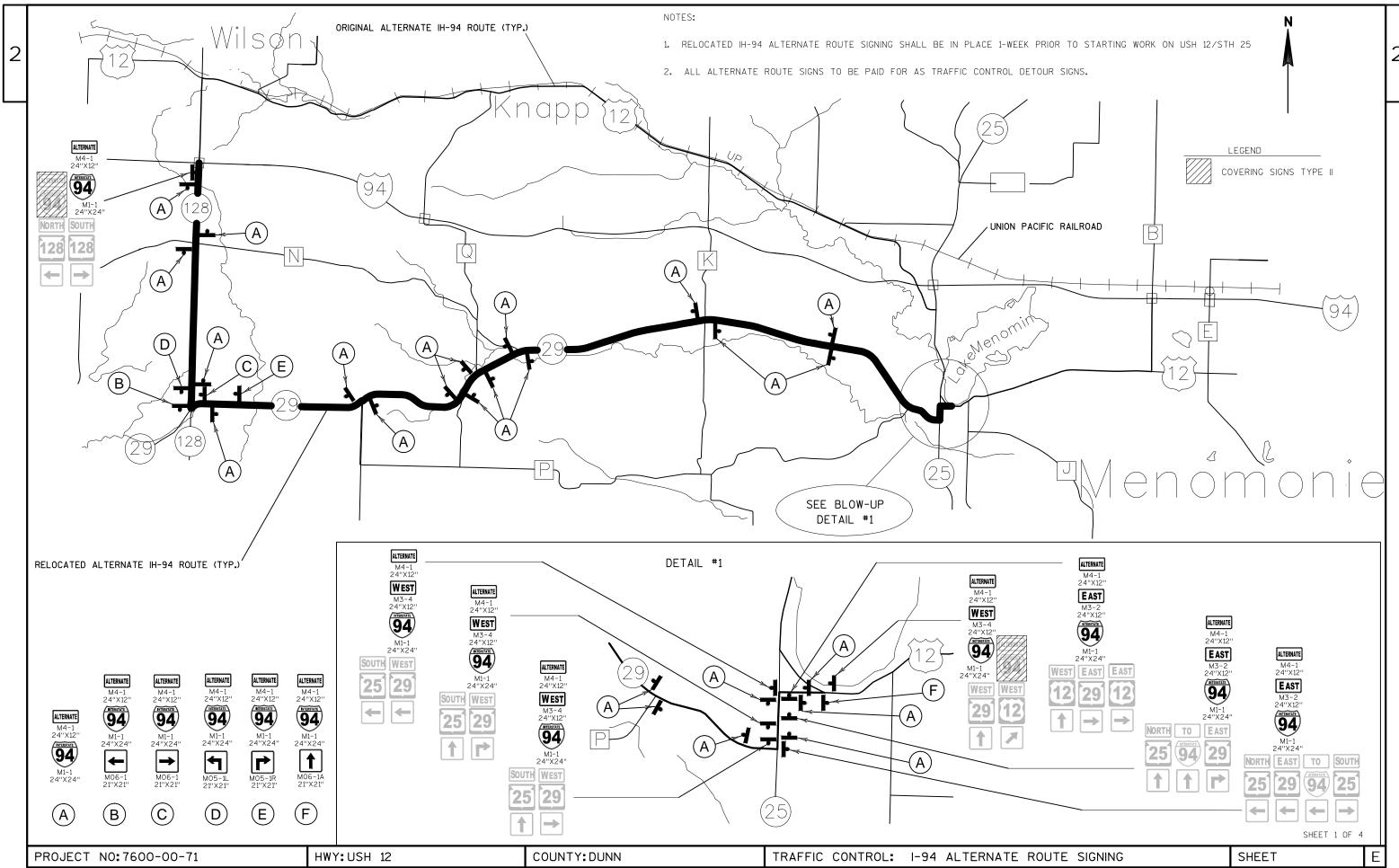


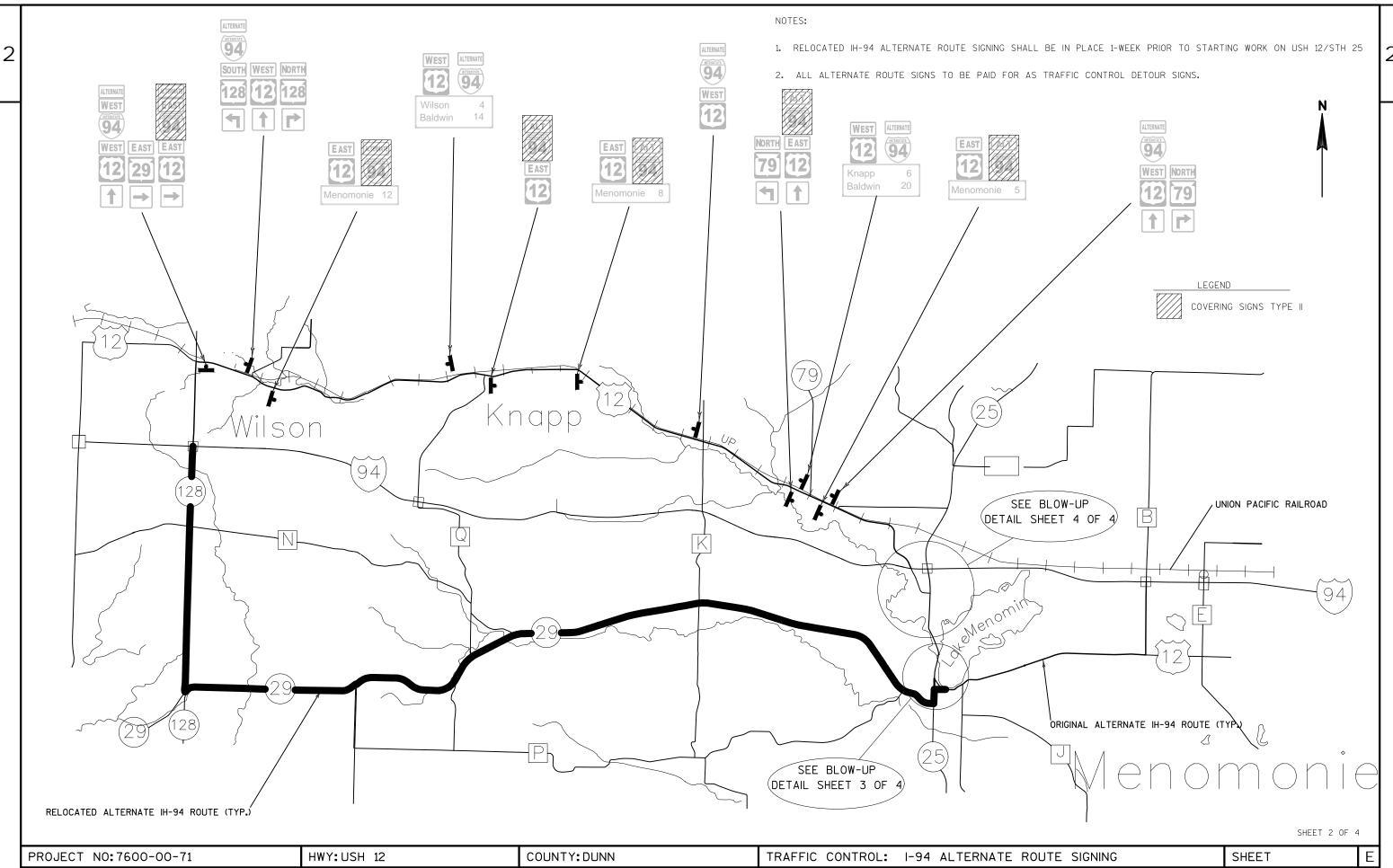


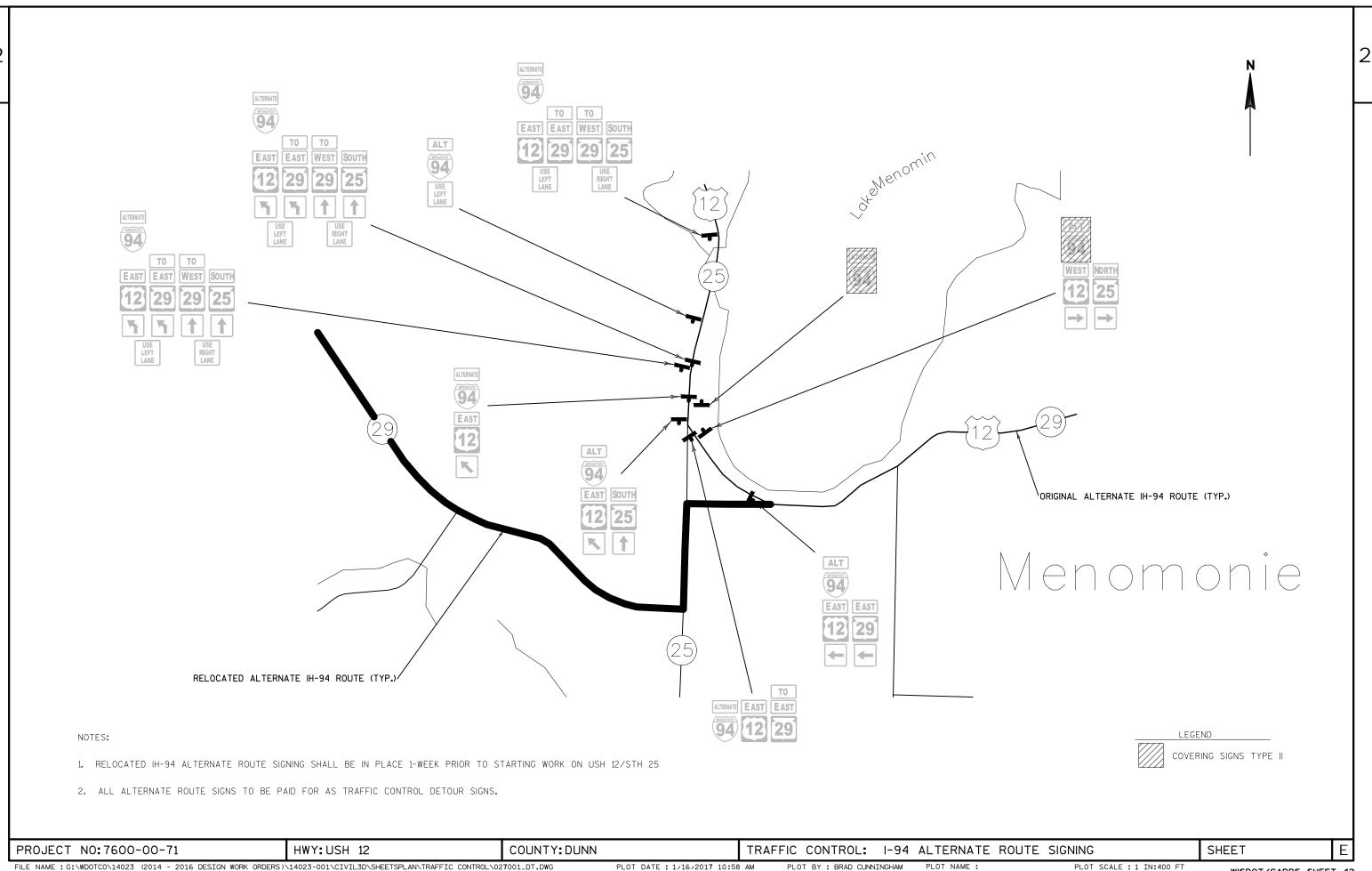


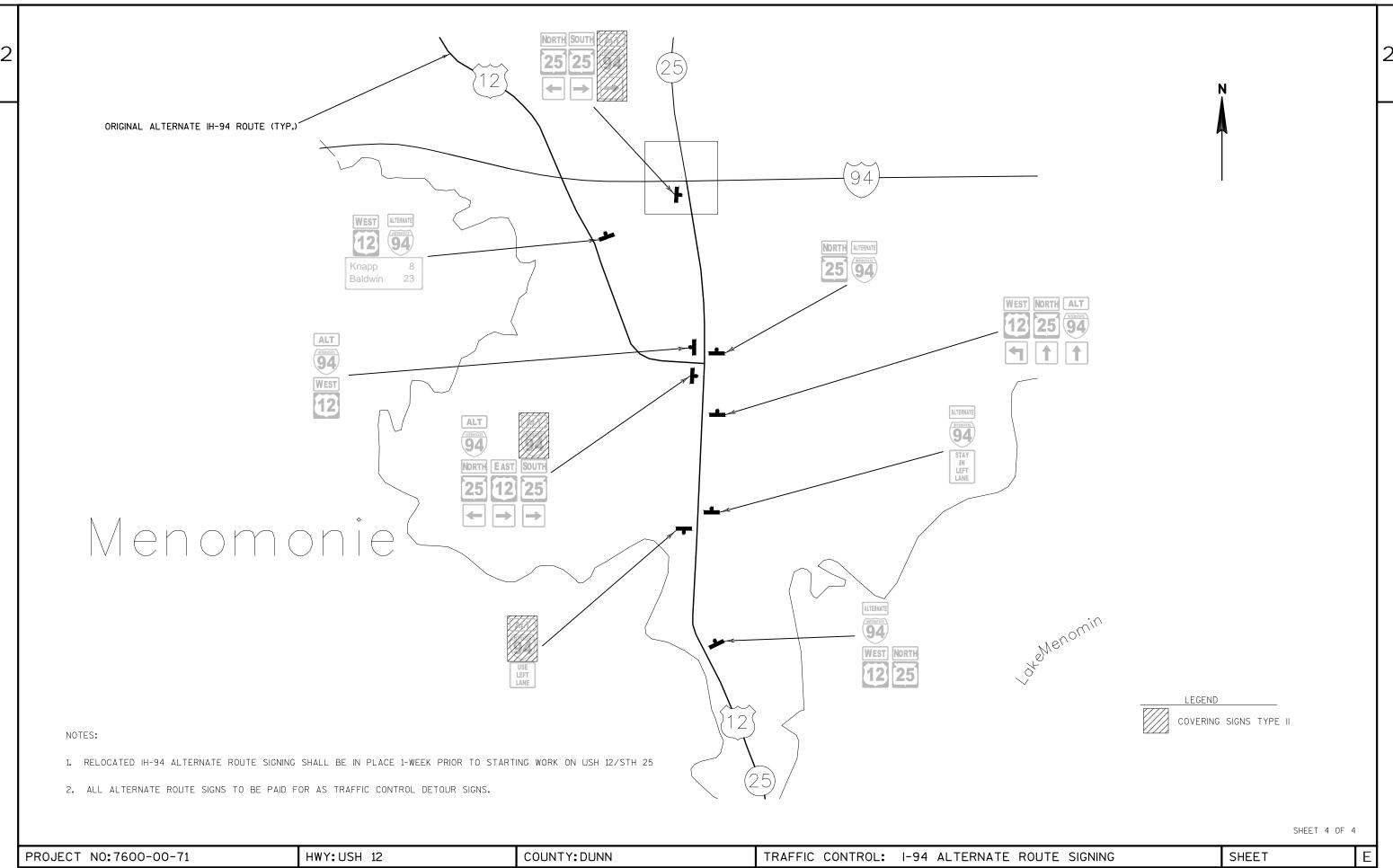


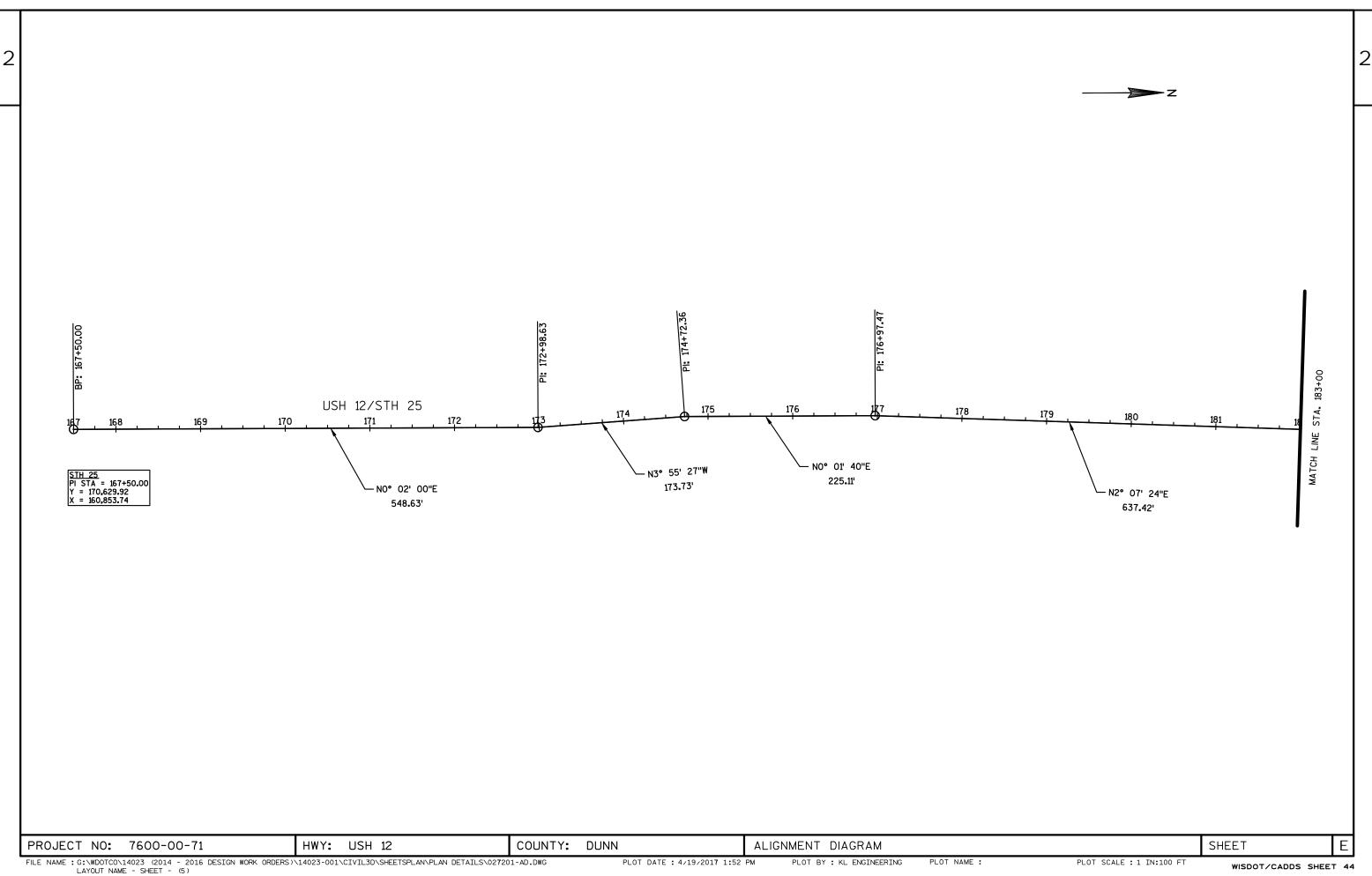


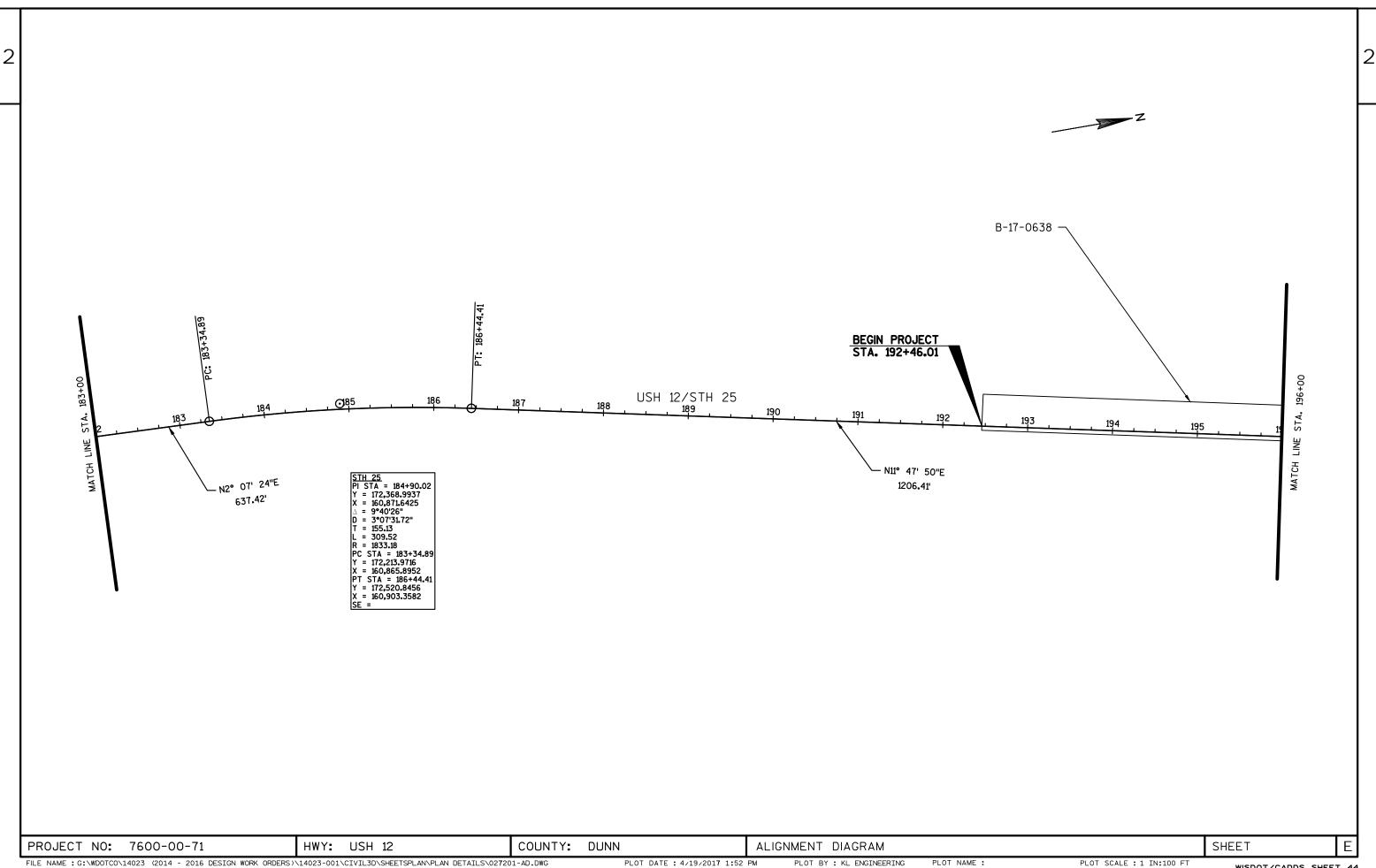


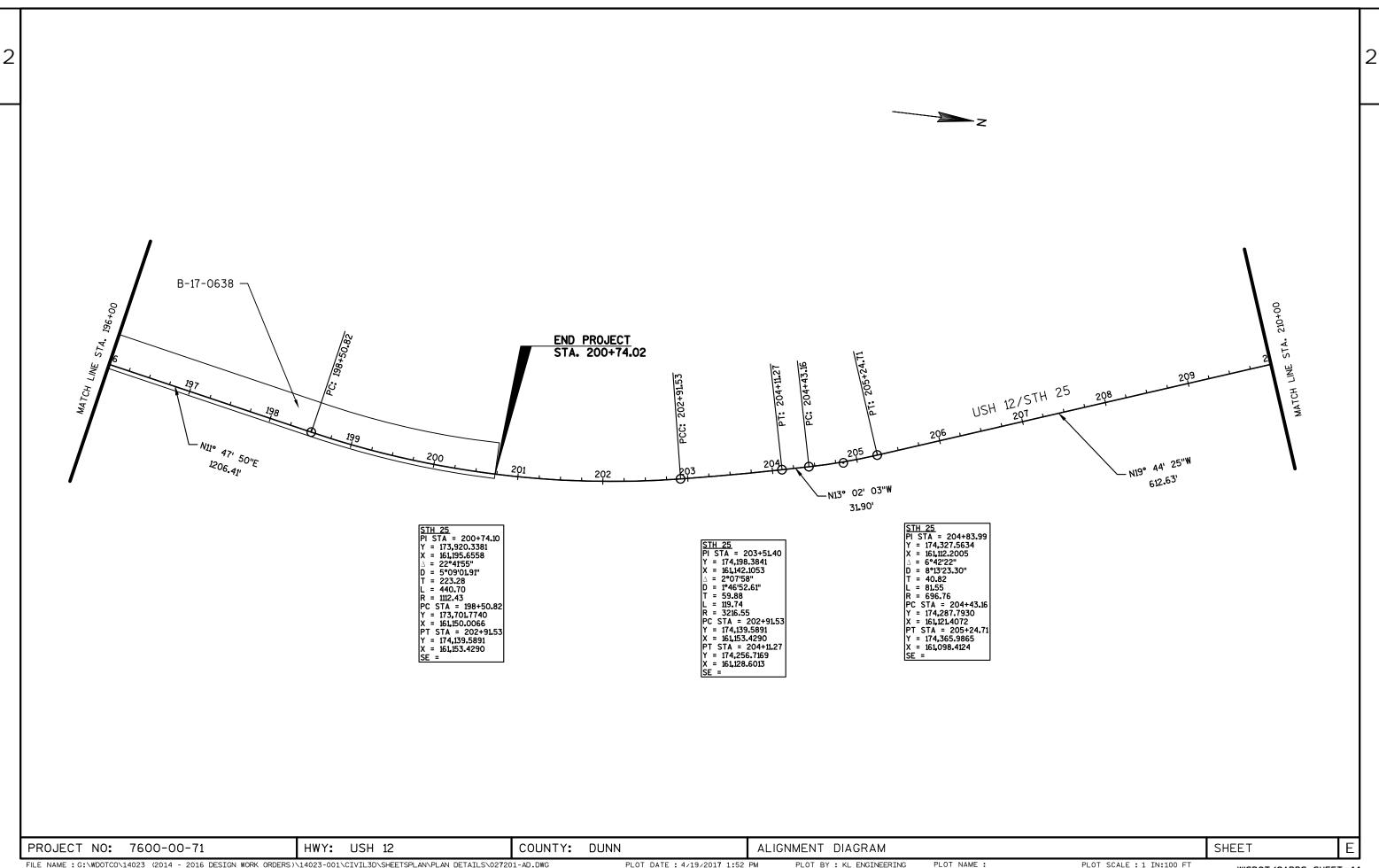


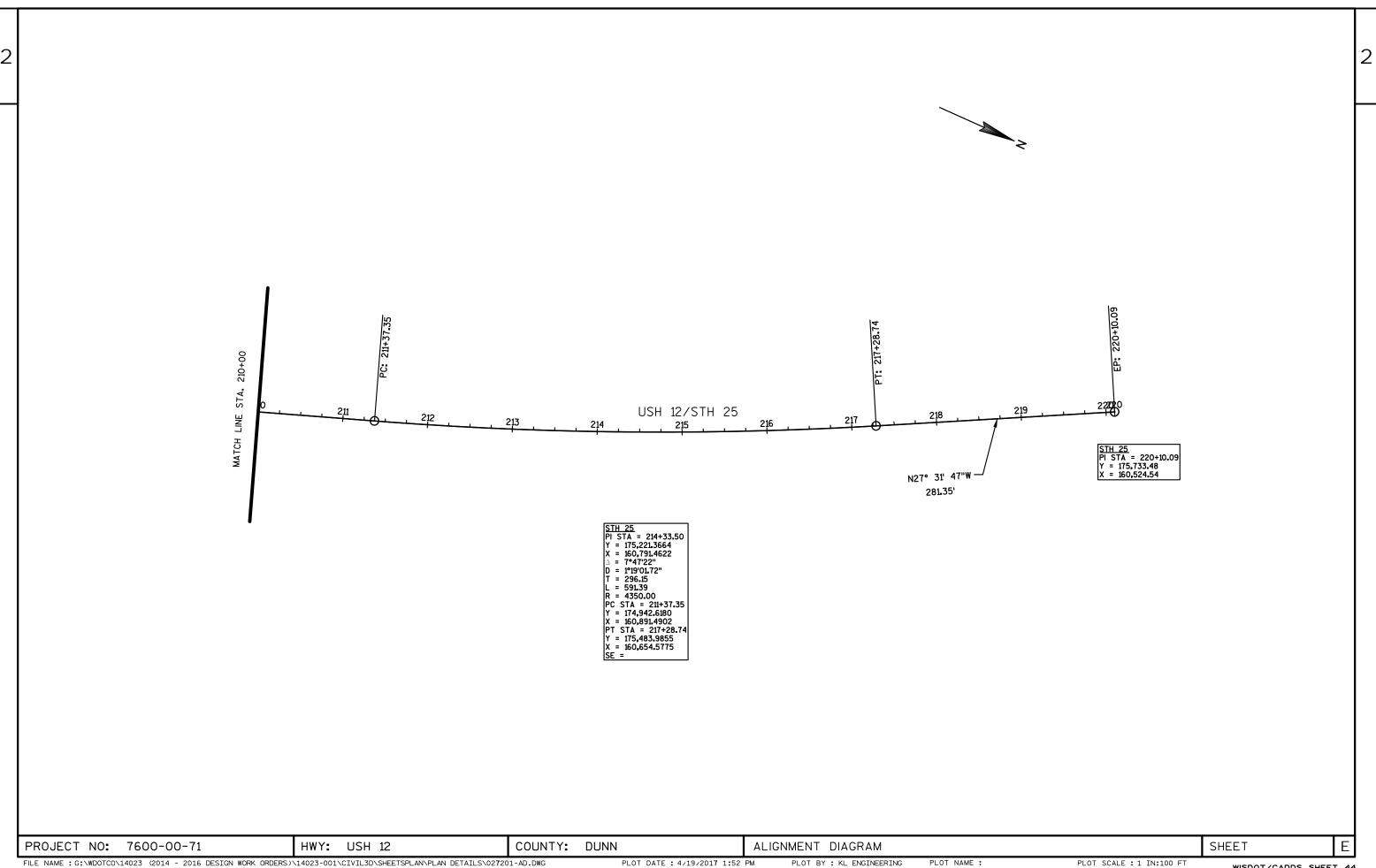


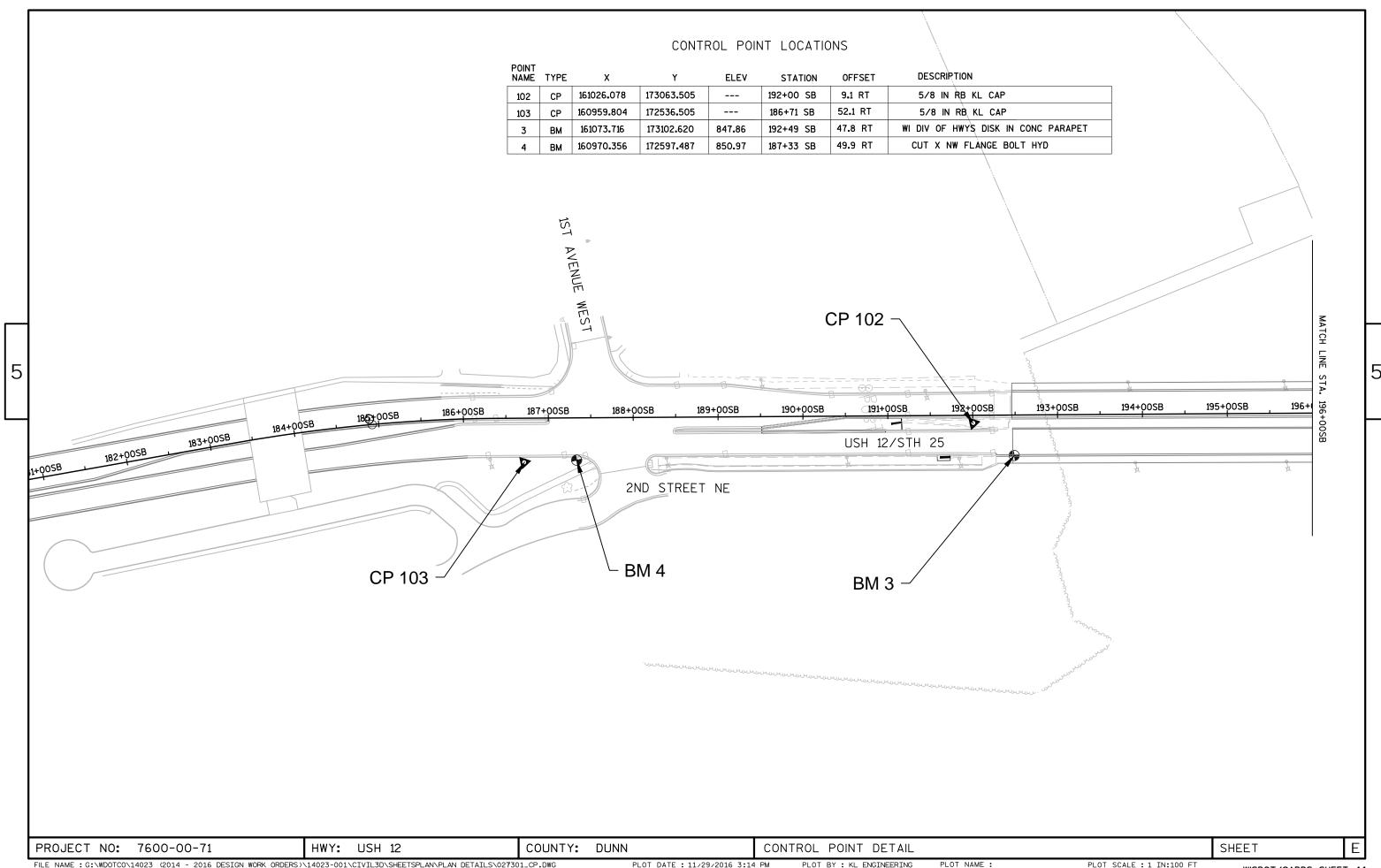


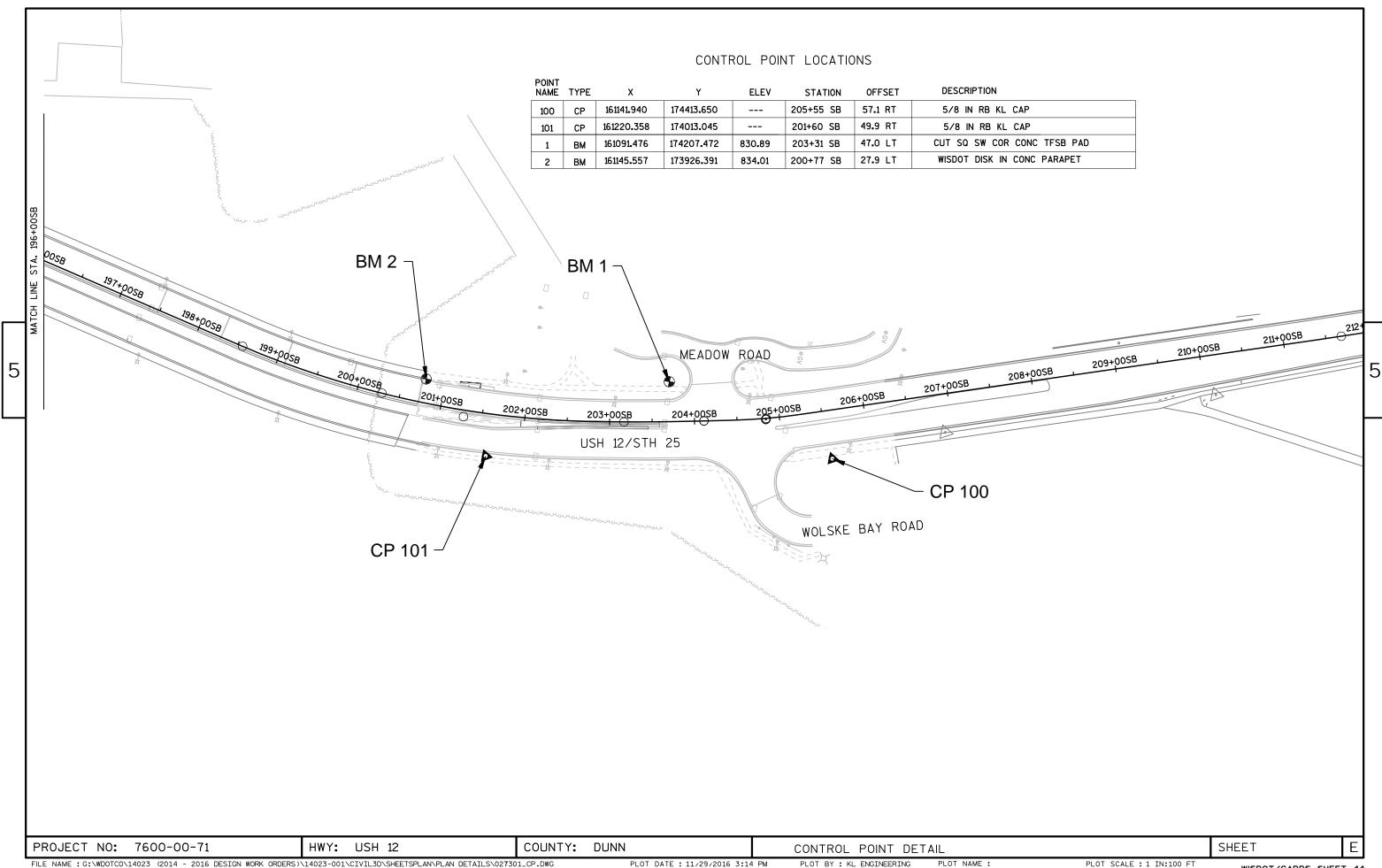












					7600-00-71
Line	Item	Item Description	Unit	Total	Qty
0010	204.0150	Removing Curb & Gutter	LF	520.000	520.000
0020	204.0155	Removing Concrete Sidewalk	SY	285.000	285.000
0030	204.9060.S	Removing (item description) 001. Crash Cushion	EACH	4.000	4.000
0040	205.0100	Excavation Common	CY	70.000	70.000
0050	213.0100	Finishing Roadway (project) 001. 7600-00-71	EACH	1.000	1.000
0060	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	260.000	260.000
0070	416.0610	Drilled Tie Bars	EACH	205.000	205.000
0800	465.0125	Asphaltic Surface Temporary	TON	110.000	110.000
0090	502.3100	Expansion Device (structure) 001. B-17-0638	LS	1.000	1.000
0100	502.3210	Pigmented Surface Sealer	SY	893.000	893.000
0110	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	2,210.000	2,210.000
0120	509.0301	Preparation Decks Type 1	SY	140.000	140.000
0130	509.0302	Preparation Decks Type 2	SY	60.000	60.000
0140	509.1000	Joint Repair	SY	25.000	25.000
0150	509.1500	Concrete Surface Repair	SF	200.000	200.000
0160	509.2000	Full-Depth Deck Repair	SY	2.000	2.000
0170	509.2500	Concrete Masonry Overlay Decks	CY	14.000	14.000
0180		Polymer Overlay	SY	3,590.000	3,590.000
0190		Cleaning Parapets	LF	1,690.000	1,690.000
0200		Preparation and Coating of Top Flanges (structure) 001. B-17-0638		1.000	1.000
0210	517.1800.S	Structure Repainting Recycled Abrasive (structure) 001. B-17-0638	LS	1.000	1.000
0220	517.4500.S		LS	1.000	1.000
0230	517.6001.S	Portable Decontamination Facility	EACH	1.000	1.000
0240	601.0551	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	LF	520.000	520.000
0250	602.0410	Concrete Sidewalk 5-Inch	SF	2,220.000	2,220.000
0260	614.0800	Crash Cushions Permanent	EACH	4.000	4.000
0270	618.0100	Maintenance And Repair of Haul Roads (project) 001. 7600-00-71	EACH	1.000	1.000
0280	619.1000	Mobilization	EACH	1.000	1.000
0290	628.7015	Inlet Protection Type C	EACH	15.000	15.000
0300	642.5001	Field Office Type B	EACH	1.000	1.000
0310	643.0100	Traffic Control (project) 001. 7600-00-71	EACH	1.000	1.000
0320	643.0300	Traffic Control Drums	DAY	10,460.000	10,460.000
0330	643.0410	Traffic Control Barricades Type II	DAY	1,250.000	1,250.000
	643.0410	**	DAY		
0340		Traffic Control Barricades Type III		1,000.000	1,000.000
0350	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	75.000	75.000
0360	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	65.000	65.000
0370	643.0705	Traffic Control Warning Lights Type A	DAY	1,700.000	1,700.000

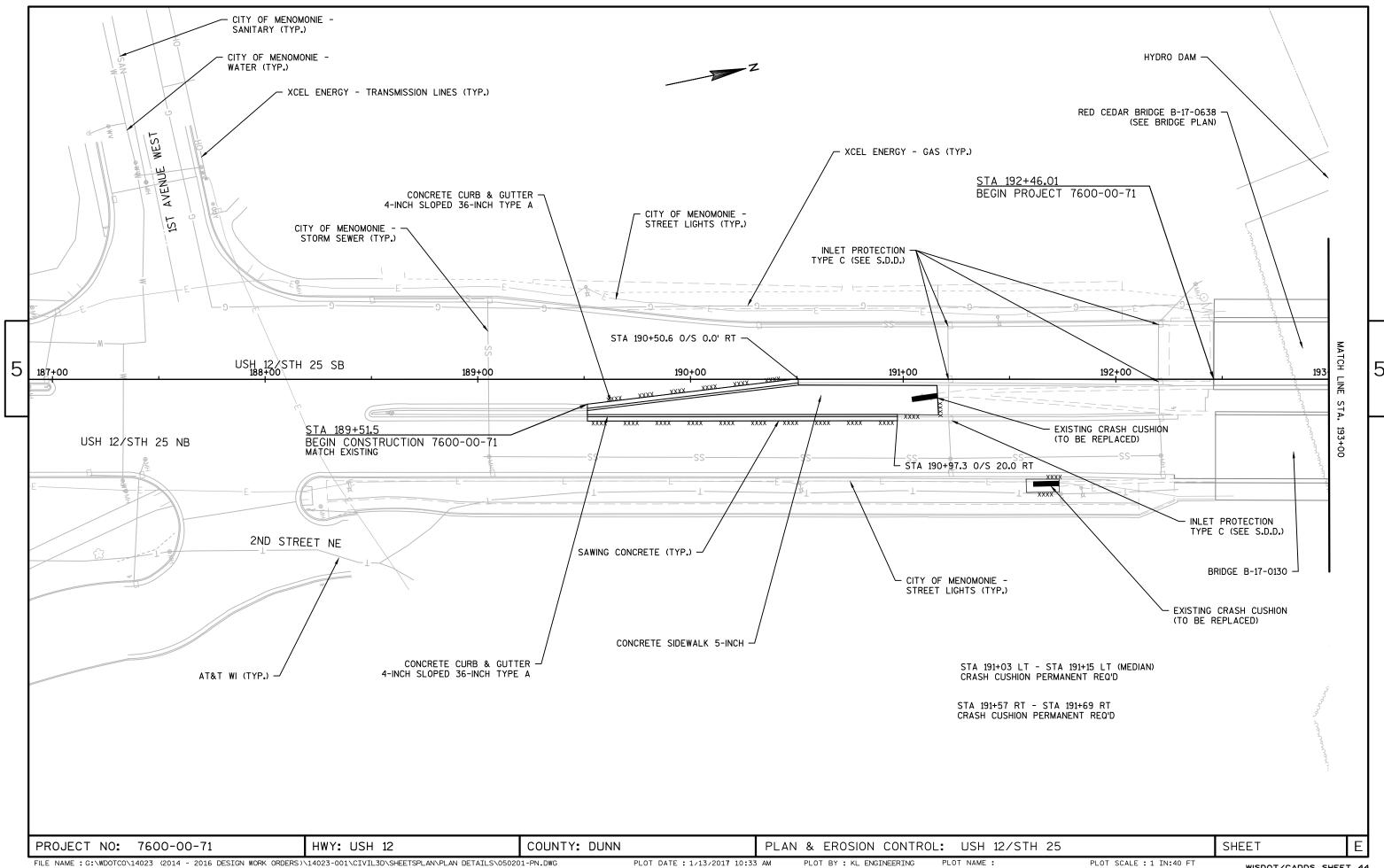
Estimate Of Quantities

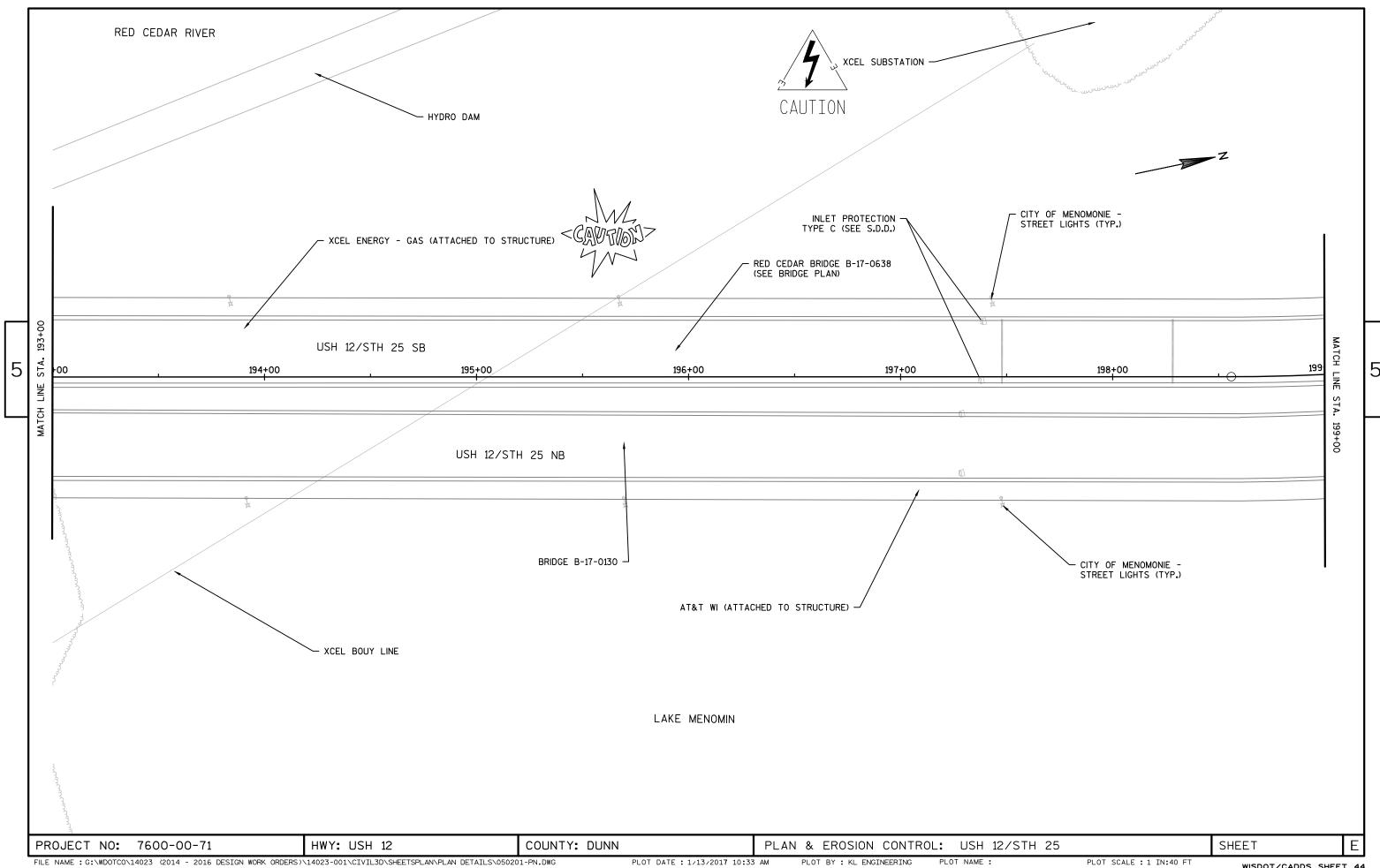
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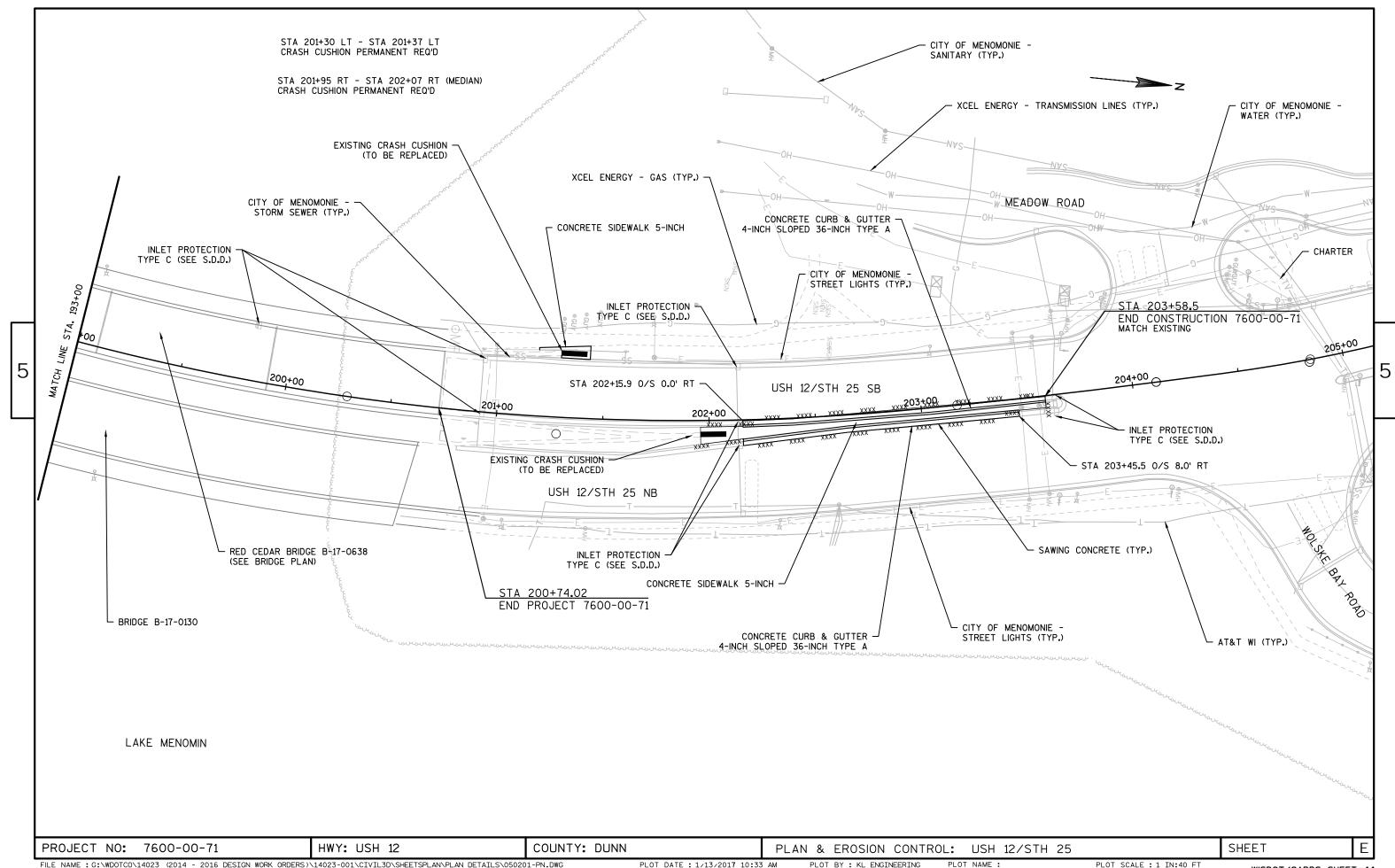
					7600-00-71
Line	Item	Item Description	Unit	Total	Qty
0380	643.0715	Traffic Control Warning Lights Type C	DAY	3,280.000	3,280.000
0390	643.0800	Traffic Control Arrow Boards	DAY	230.000	230.000
0400	643.0900	Traffic Control Signs	DAY	6,000.000	6,000.000
0410	643.0920	Traffic Control Covering Signs Type II	EACH	13.000	13.000
0420	643.1051	Traffic Control Signs PCMS with Cellular Communications	DAY	20.000	20.000
0430	643.2000	Traffic Control Detour (project) 001. 7600-00-71	EACH	1.000	1.000
0440	643.3000	Traffic Control Detour Signs	DAY	10,320.000	10,320.000
0450	646.0106	Pavement Marking Epoxy 4-Inch	LF	4,309.000	4,309.000
0460	646.0126	Pavement Marking Epoxy 8-Inch	LF	200.000	200.000
0470	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	2.000	2.000
0480	647.0356	Pavement Marking Words Epoxy	EACH	2.000	2.000
0490	647.0456	Pavement Marking Curb Epoxy	LF	640.000	640.000
0500	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	5,915.000	5,915.000
0510	649.0506	Temporary Pavement Marking Removable Mask-Out Tape 6-Inch	LF	115.000	115.000
0520	649.0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	110.000	110.000
0530	649.1800	Temporary Pavement Marking Arrows Removable Tape	EACH	2.000	2.000
0540	655.0610	Electrical Wire Lighting 12 AWG	LF	1,520.000	1,520.000
0550	690.0250	Sawing Concrete	LF	580.000	580.000
0560	SPV.0035	Special 001. Concrete Masonry Deck Patching	CY	17.000	17.000
0570	SPV.0060	Special 001. Remove Street Light	EACH	8.000	8.000
0580	SPV.0060	Special 002. Furnish and Install Street Light	EACH	8.000	8.000
0590	SPV.0090	Special 001. Sawing Pavement Deck Preparation Areas		1,600.000	1,600.000
0600	SPV.0105	Special 001. Temporary Vehicle Detection and Timings	LS	1.000	1.000

EXCAVATION COMM					REMOVING CRASH CUSHION		
CATEGORY STATION TO STATIO	205.0100 I (CY)		REMOVING CURB AND GUTT	ER	204.900	60.S	
0010	()				REMOV	/ING	
USH 12 (CROSSOVER	5)			204.0150	CRAS	3H	
189+50 - 191+15	45			REMOVING	CUSH		
201+95 - 203+50	25			CURB AND GUTTER	CATEGORY STATION TO STATION (EAC	H) NOTES	
			CATEGORY STATION TO STATION	(LF)	0010		
TOTAL	70		0010		191+03 - 191+15 MEDIAN 1	*STAGE 3 WORK	
			USH 12 (MEDIAN)		191+57 - 191+69 RT 1	STAGE 3 WORK	
			189+51 - 190+50 SB	100	201+25 - 201+37 LT 1	STAGE 2 WORK	
CONCRETE SIDEWA	<u>LK</u>		189+51 - 190+97 NB	145	201+95 - 202+07 MEDIAN 1	*STAGE 3 WORK	
	000.0440		202+16 - 203+58 SB 202+16 - 203+45 NB	145 130			
	602.0410 CONCRETE		202110 200110110	130			
	SIDEWALK				TOTAL 4		
	5-INCH		то	DTAL 520			
CATEGORY STATION TO STATION	(SF)				* EXISTING CRASH CUSHION TO REMAIN DURING STAGE 2 TRAFF	IC CONFIGURATION.	
0010							
USH 12 189+51 - 191+15 (MEDIAN)	4000						
201+25 - 201+40 (LT)	1680 40						
201+65 - 203+58 (MEDIAN)	500		TEMPORARY ASPHALT AND BASE AGGREC	STE ITEMS	CONCRETE CURB &	GUTTER ITEMS	
				005.0405			
			4	85.0125 305.0120 BASE		601.0551 416.0610 CONCRETE	
	TOTAL 2220		AS	SPHALTIC AGGREGATE		CURB & GUTTER	
				URFACE DENSE		4-INCH SLOPED	
REMOVING CONCRETE S	IDEWALK		TEI	MPORARY 1 1/4-INCH		36-INCH DRILLED	
				(TON) (TON)		TYPE A TIE BAR:	
	204.0155		0010 USH 12 (MEDIAN)		CATEGORY STATION TO STATION	(LF) (EACH)	
	REMOVING		189+51 - 190+97 TEMPORARY	70 130	0010 USH 12 (MEDIAN)		
	CONCRETE SIDEWALK		202+16 - 203+58 TEMPORARY	40 80	189+51 - 190+50 SB	100 40	
CATEGORY STATION TO STATION	SIDEWALK (SY)			.0	189+51 - 190+97 NB	145 60	
0010	(= 1)		USH 12 (MEDIAN)		202+16 - 203+58 SB	145 55	
USH 12 (MEDIAN)			189+51 - 190+97	30	202+16 - 203+45 NB	130 50	
189+50 - 191+15	200		202+16 - 203+58	20			
191+55 - 191+70	10						
201+30 - 201+45	10		TOTAL	110 260	тот	ΓAL 520 205	
201+95 - 203+50	65		ione.	200			
	TOTAL 285						
	614.0800	CRASH CUSHIONS	<u>ERMANENT</u>		EROSION CONTROL		
	CRASH						
		BACK OBJECT	CRASH	CRASH		628.7015	
CATECORY STATION TO STATION		WIDTH MARKING		CUSHION		INLET	
CATEGORY STATION TO STATION I	OCATION (EACH)	FT PATTERN	LEVEL DIRECTION LOCATION	SHEILDS		PROTECTION	
	MEDIAN 1	2 OM-3L (W5-58L)	TL-2 BIDIRECTIONAL LT & RT PERMANENT CON	NCRETE BARRIER IN MEDIAN	CATEGORY STATION TO STATION	TYPE C (EACH)	
191+57 - 191+69	RT 1	2 OM-3R (W5-58R)		RETE BARRIER ON SHOULDER	0010	(2.10.1)	
201+30 - 201+37	LT 1	2 OM-3R (W5-58R)		RETE BARRIER ON SHOULDER	USH 12 NB & SB		
201+95 - 202+07	MEDIAN 1	2 OM-3L (W5-58L)	TL-2 BIDIRECTIONAL LT & RT PERMANENT CON	NCRETE BARRIER IN MEDIAN	191+25 - 203+50	15	
TOTAL	4					TOTAL 15	
NO: 7600-00-71	HWY: USH		COUNTY: DUNN	MISCELLANEOUS QUAI		SHEET	

Part				PAVEMENT MARKING	S EPOXY										<u>TR</u>	AFFIC CONTRO	<u>L</u>					
Part		CATEGORY	STATION TO STATION	EPOXY 4-INCH YELLOW WHITE	EPOXY 8-INCH WHITE	ARROWS EPOXY TYPE 2	WORDS EPOXY	CURB EPOXY						BARRICADES	BARRICADES	FLEXIBLE TUBULAR MARKER	FLEXIBLE TUBULAR MARKER	WARNING LIGHTS	WARNING LIGHTS	ARROW		SIGNS PCMS WITH CELLULAR
Section Sect	_	0010					· · · ·	<u></u>					(DAY)	(DAY)	(DAY)	(EACH)	(EACH)	(DAY)	(DAY)	(DAY)	(DAY)	(DAY)
Time						2	2			0010	STAGE 1 STAGE 2	5 100	600 8,100	 1,100	45 800	 55	 55	60 1,400	75 2,800	5 200	160 5,000	7
Table 1	_		USH 12 (NORTHBOUND)	885 1,270				235														
Part			TOTAL	4309	200	2	2	640			TOTAL	115	10,460	1,250	1,000	75	65	1,700	3,280	230	6,000	20
Part				TEMPORARY PAVE	MENT MARKING										TRAFFIC	CONTROL - DET	TOUR SIGNS					
CATISON STATION STAT				REMOVABLE TAPE	REMOV. TAP	ABLE /	ARROWS EMOVABLE	REMOVABLE						TRAFF COVE	IC CONTROL RING SIGNS	COVER/UNCOV	/ER DA)		ETOUR	TRAFFIC CONTR DETOUR	OL TRA	AFFIC ITROL
STAGE 1 2045 - 100 2 100 2 - 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-		STATION TO STATION											((EACH)	# OF CYCLES	S PH.	ASE (EACH)	(DAY)	(E	ACH)
STACE 245			STAGE 1 STAGE 2	2045	110	l	2	60								'		20				
SAWING CONCRETE SAWING CON	-		STAGE 3																	ŕ		
SAWING CONCRETE			TOTAL	5915	110		2	115			UTINO DAGEO											
SAWING CONCRETE SAWING CONCRETE SPV.006.002 SPV.006.002 SPV.006.002 SPV.006.002 SEC.0610 SEC.0			SAWING CONCRE	_						LIG	HIING BASES											
USH 12 (MEDIAN)	_		STATION TO STATION	SAWING CONCRETE							REMOVE STREET	F	FURNISH AND INSTALL	ELEC WIRE L	TRICAL LIGHTING		<u>Te</u>	EMPORARY V	EHICLE DETE		SPV.0105.	
SI		L 1	189+51 - 190+50 SB				A	ALL ITEMS ARE CATEGO	RY 0030						LF					DET	ECTION AND SH 12 & WOL ROAD)	TIMINGS SKE BAY
202+16 - 203+45 NB 130 SL 104 197+43 37.2' LT 1 1 1 190 SL 105 197+48 58.7' RT 1 1 190 SL 106 199+04 37.3' LT 1 1 190 CATEGORY 0010 TOTAL 1 TOTAL 580 SL 107 199+22 58.8' RT 1 1 1 190		1	191+57 - 191+69 NB	30				SL 101 SL 102	193+91 195+67	57.7' R 37.6' L	T 1 T 1		•	1 1	190 190						LS	
TOTAL 580 SL 107 199+22 58.8' RT 1 1 190	_				_			SL 104 SL 105	197+43 197+48	37.2' L 58.7' R	T 1 T 1		· ·	<u> </u>	190							
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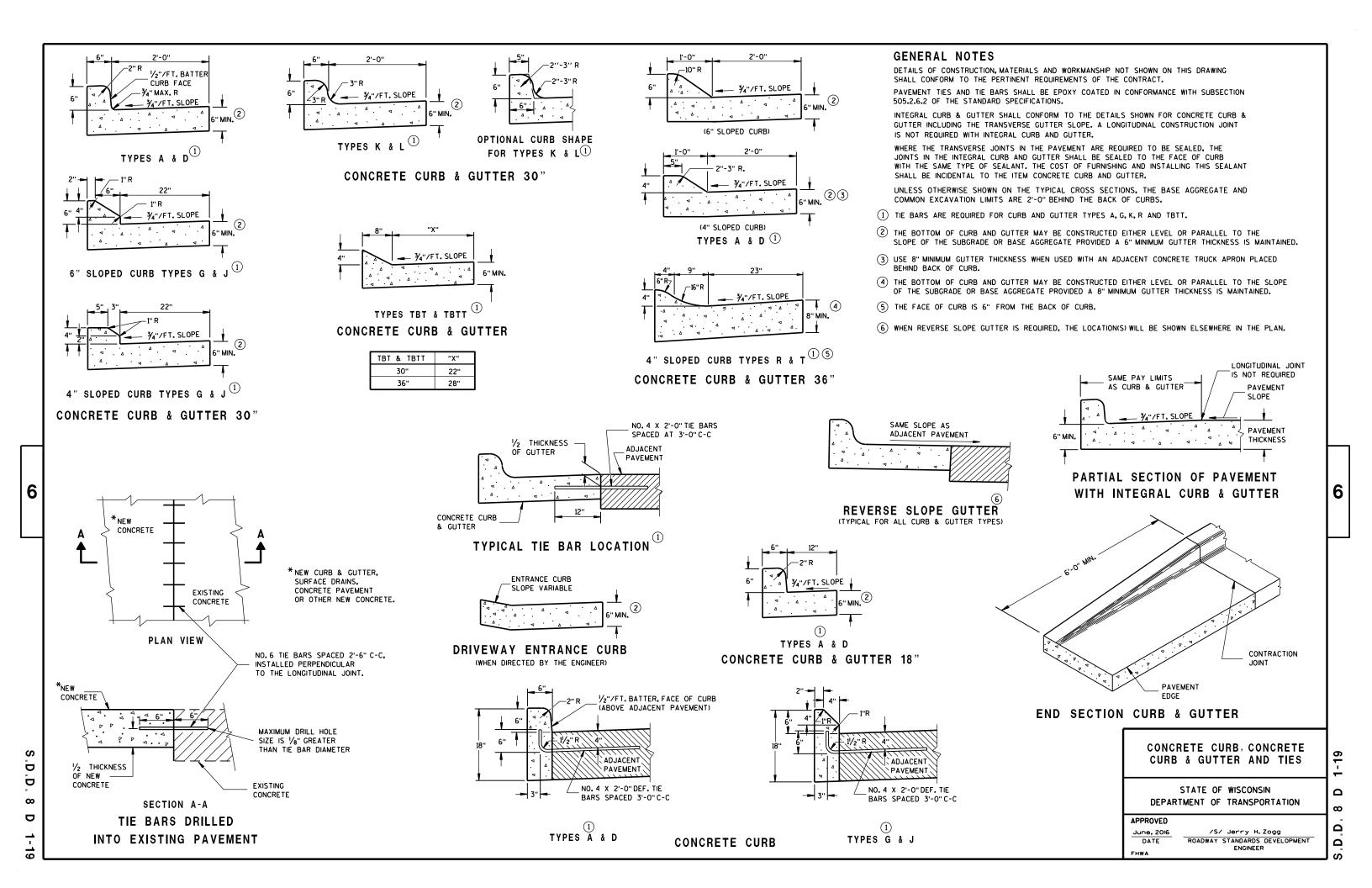






Standard Detail Drawing List

)8D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
)8E10-02	INLET PROTECTION TYPE A, B, C AND D
)9E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
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
I5C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
I5C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
I5C08-17A	LONGITUDINAL MARKING (MAINLINE)
I5C08-17B	PAVEMENT MARKING (TURN LANES)
I5C11-06	FLEXIBLE TUBULAR MARKER POST
I5C19-04C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
I5D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
I5D09-03	TRAFFIC CONTROL, SINGLE LANE CROSSOVER EXIT
I5D11-06	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
I5D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
I5D21-04	TRAFFIC CONTROL. INTERSECTION WITHIN SINGLE LANE CLOSURE







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

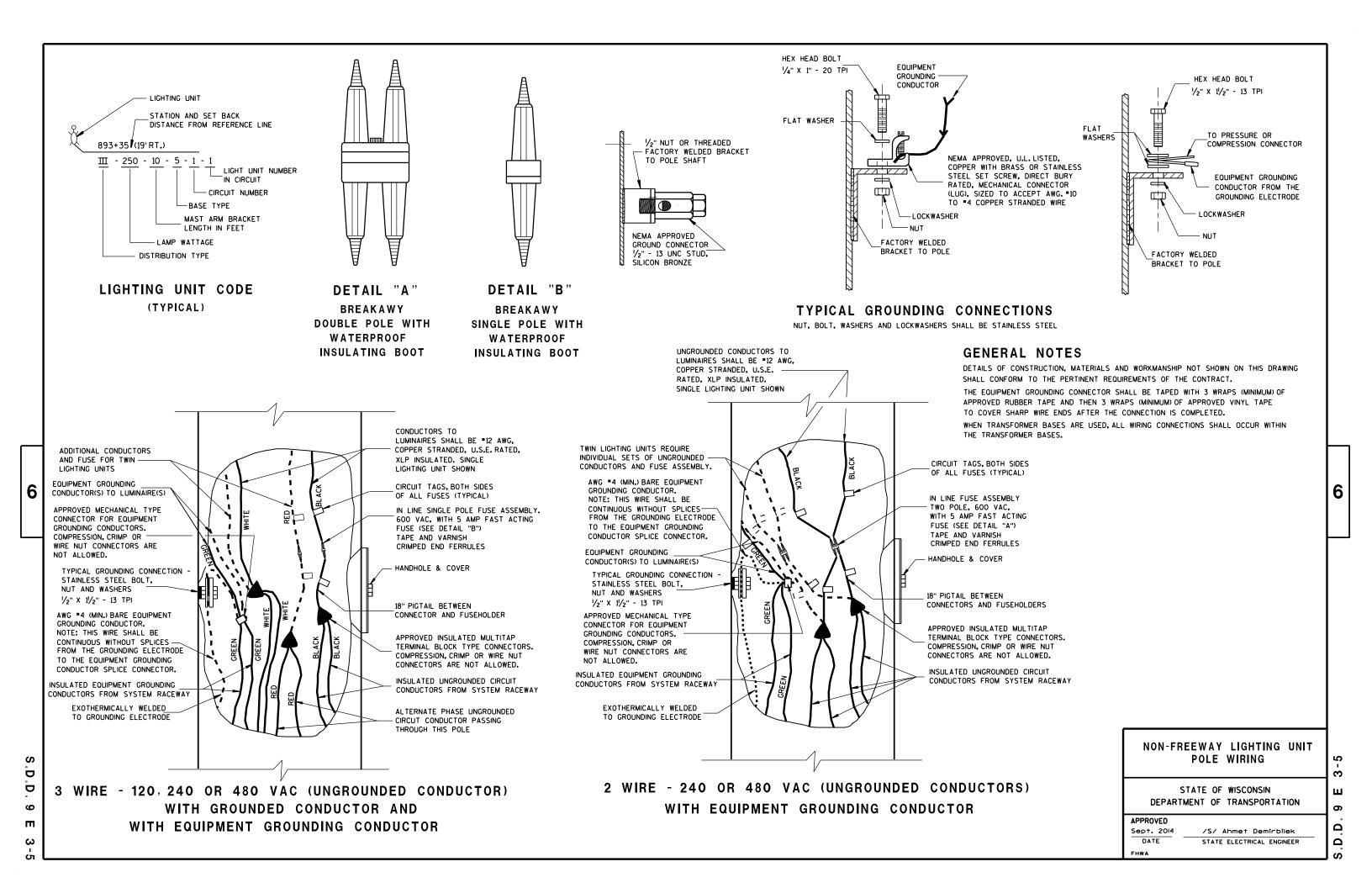
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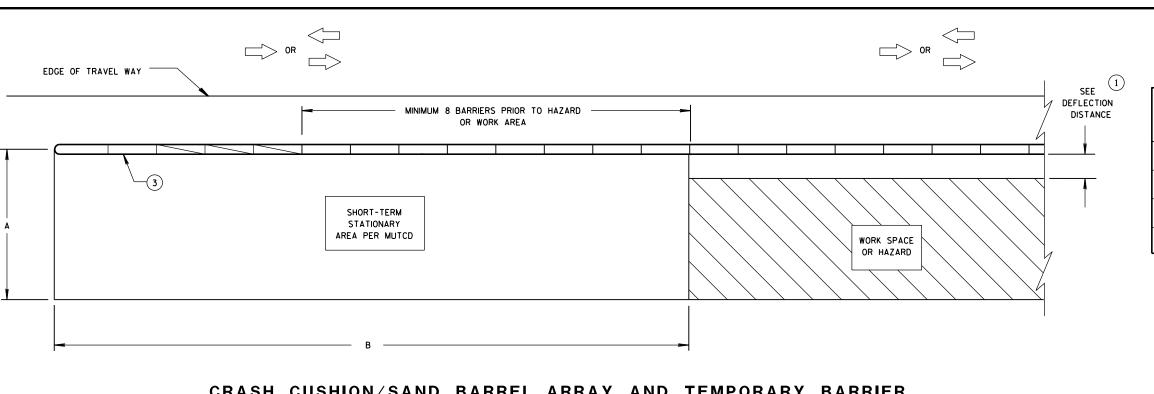
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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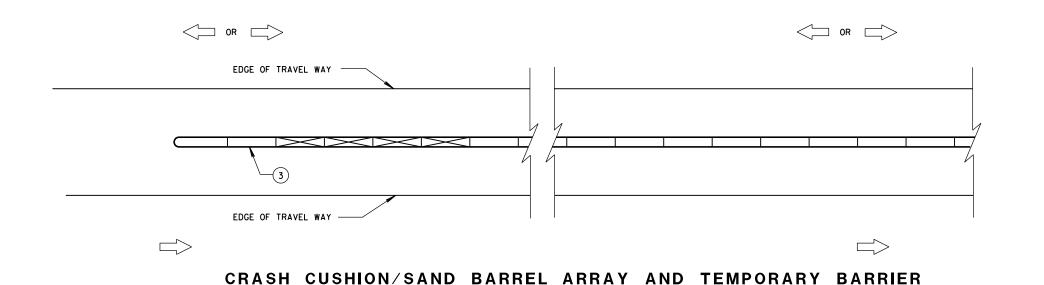
DIMENSION A TABLE (2)

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

DIMENSION B TABLE (2)

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

CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

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

FREE STANDING TEMPORARY BARRIER

LEGEND

PERMANENT CONCRETE 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.

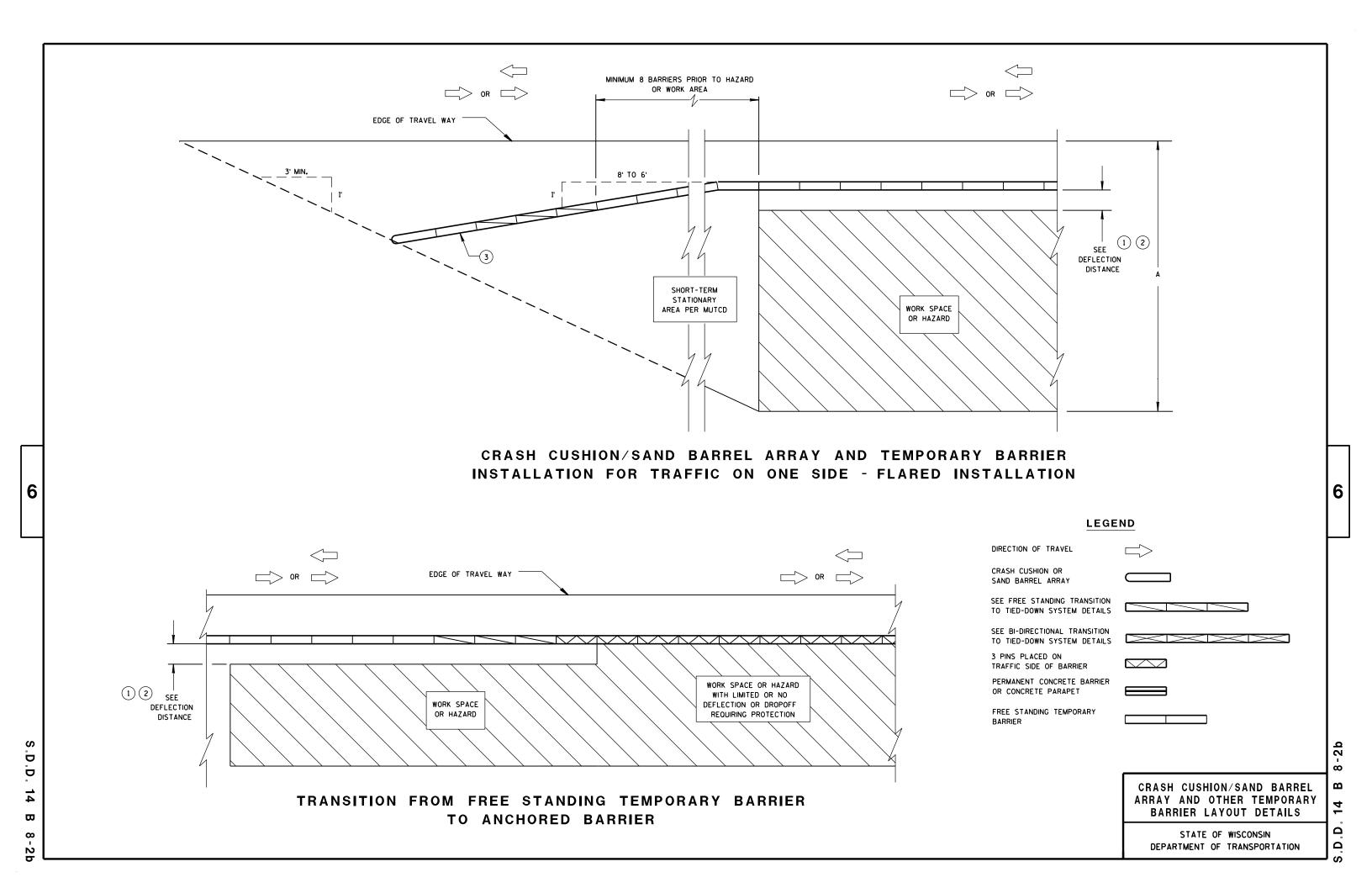
- (1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.
- (2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.
- (3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S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

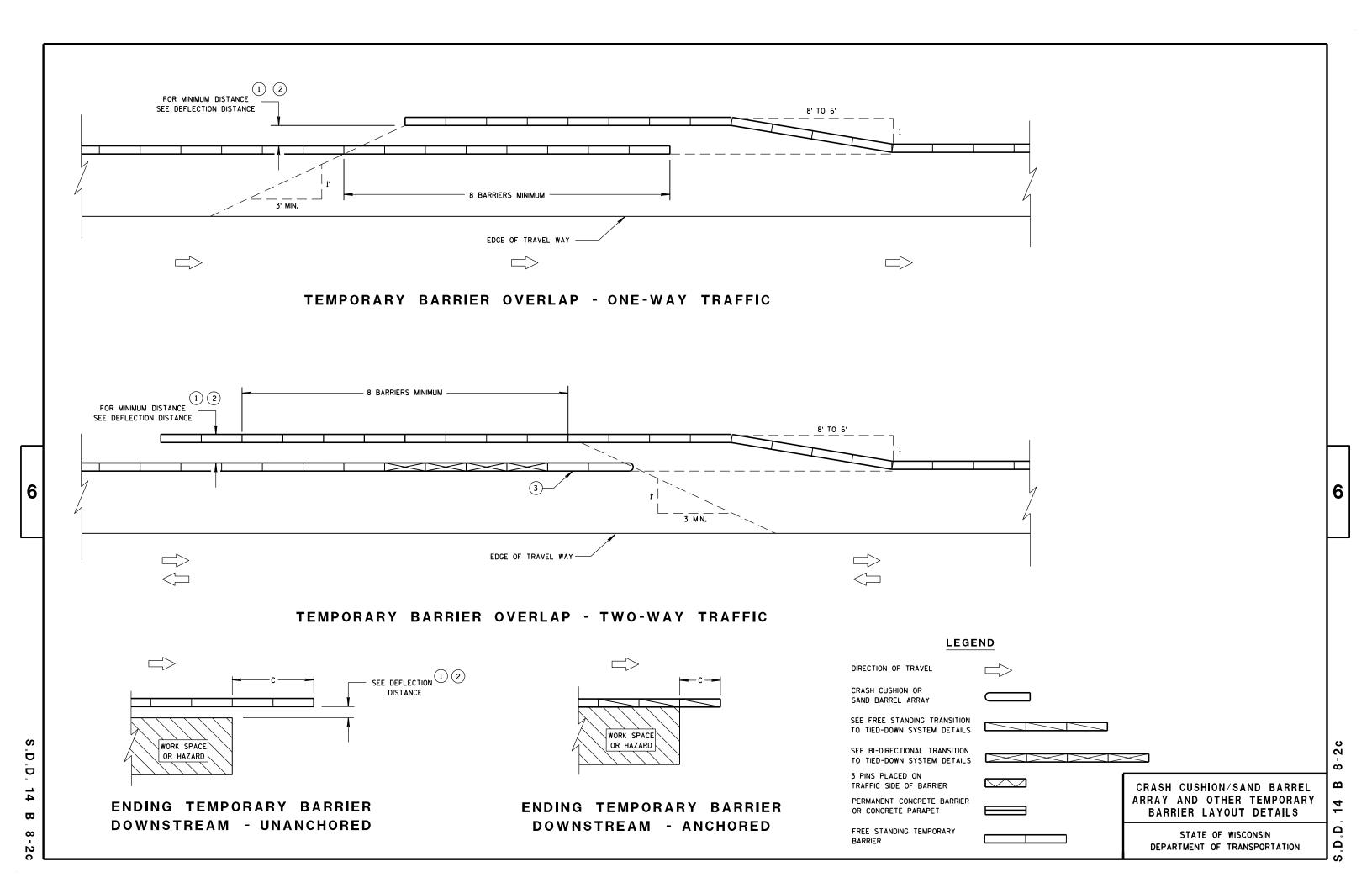
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

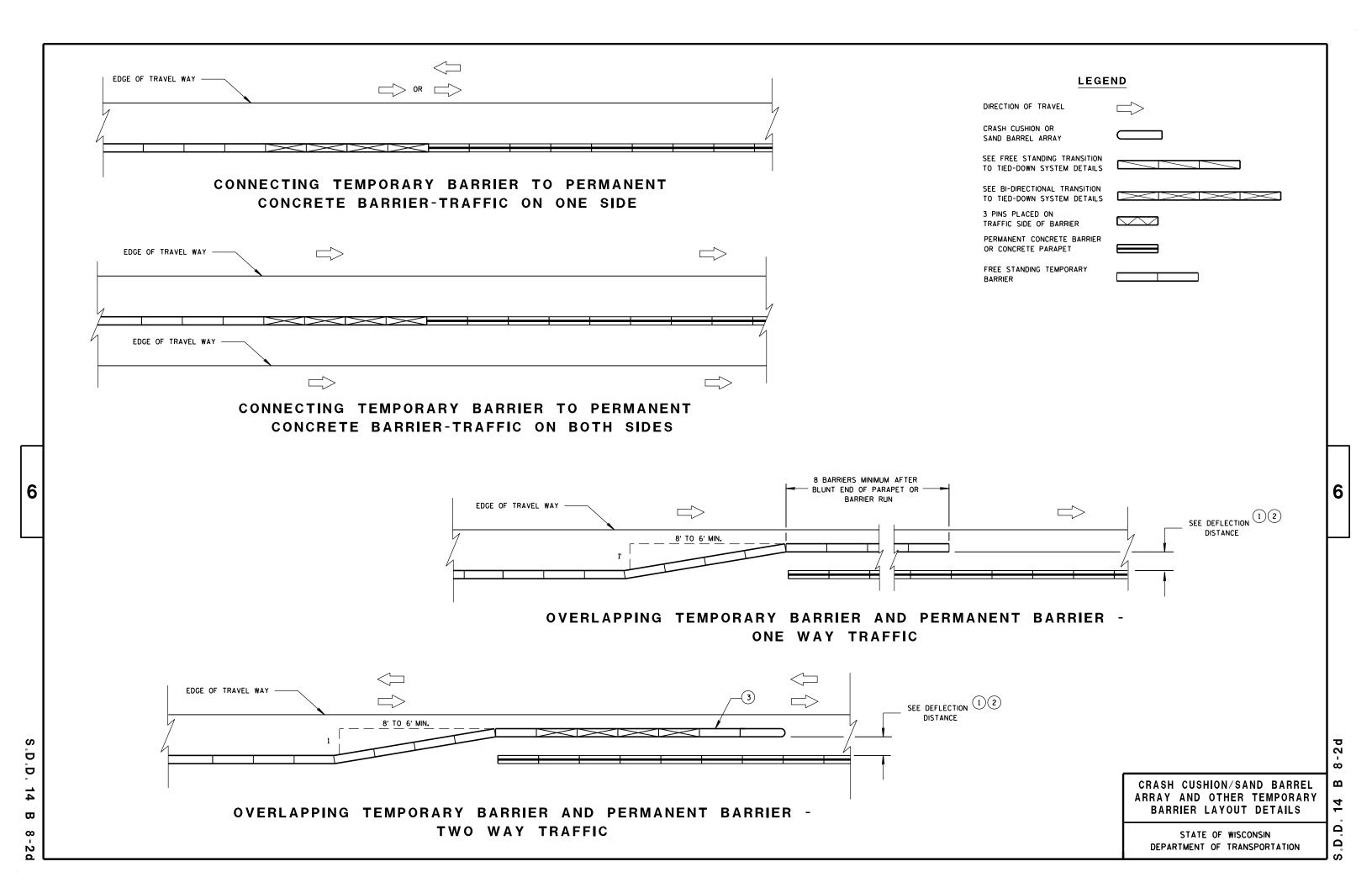
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

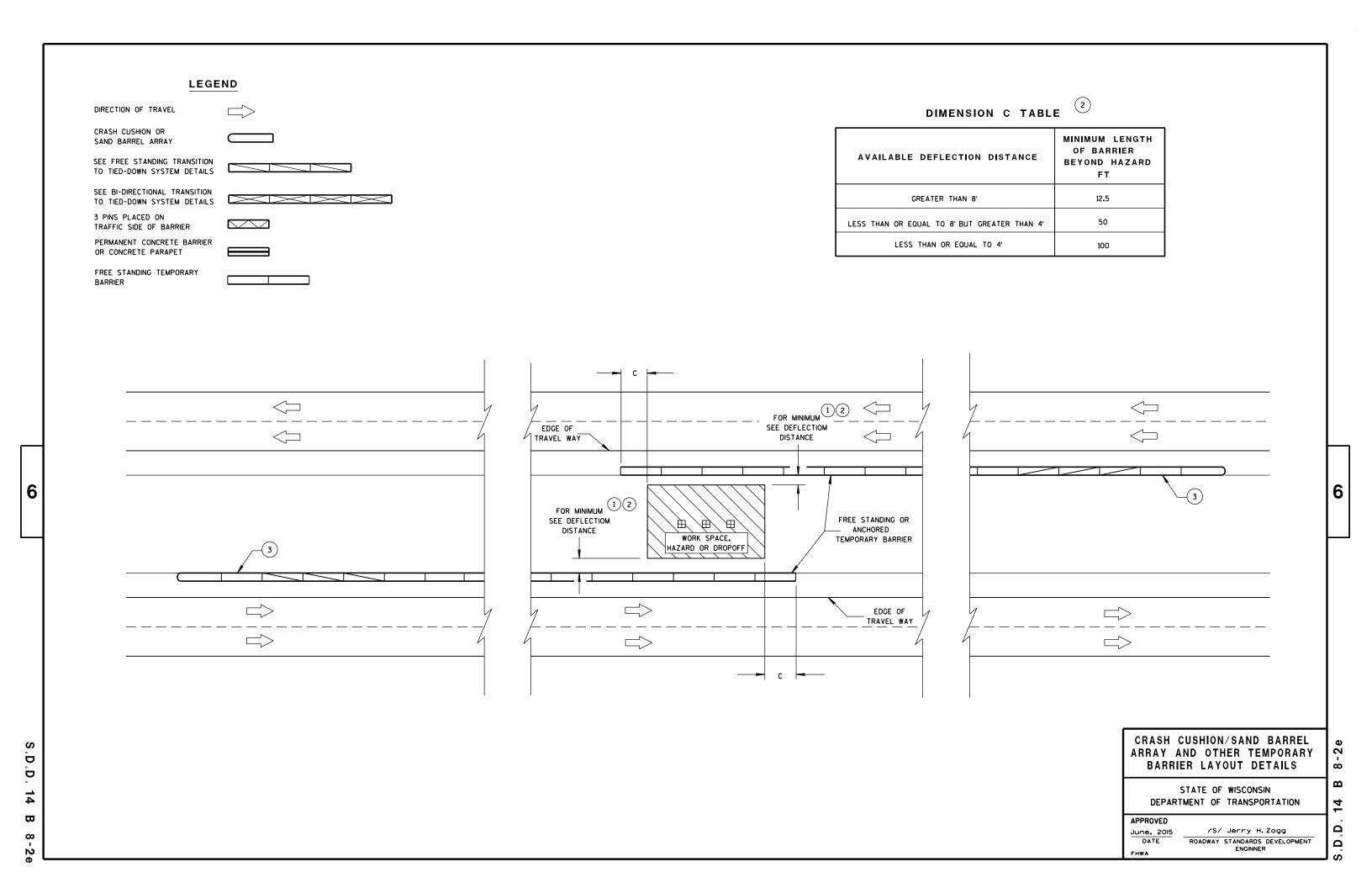
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THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

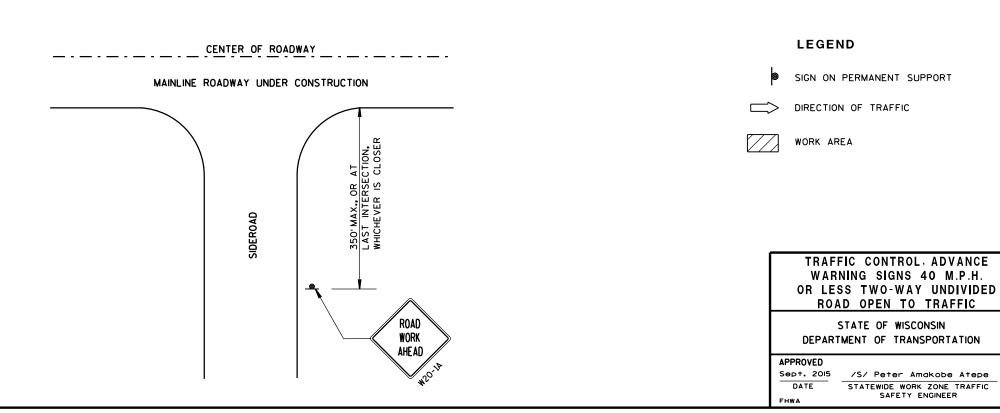
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

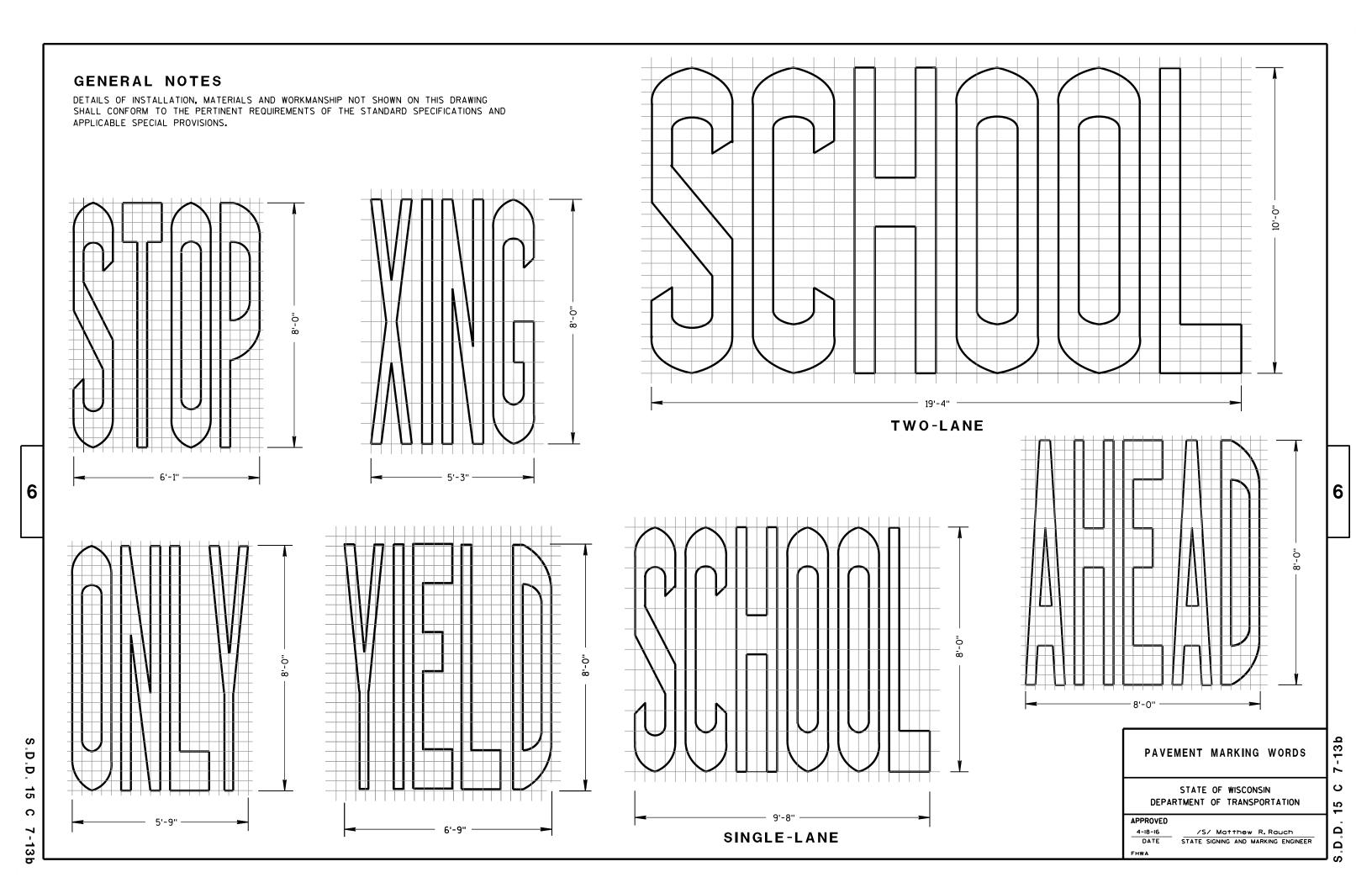
★ THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

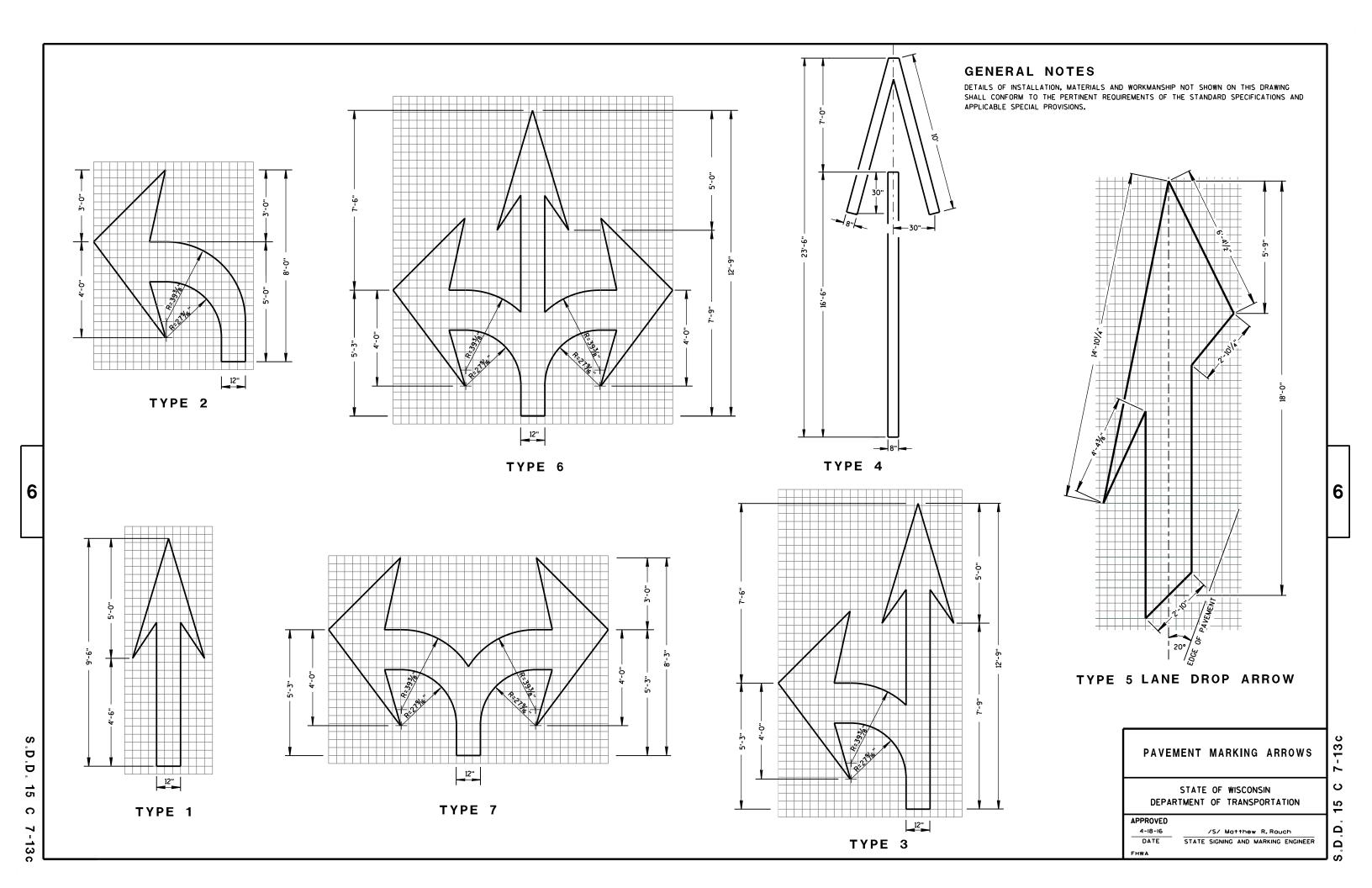


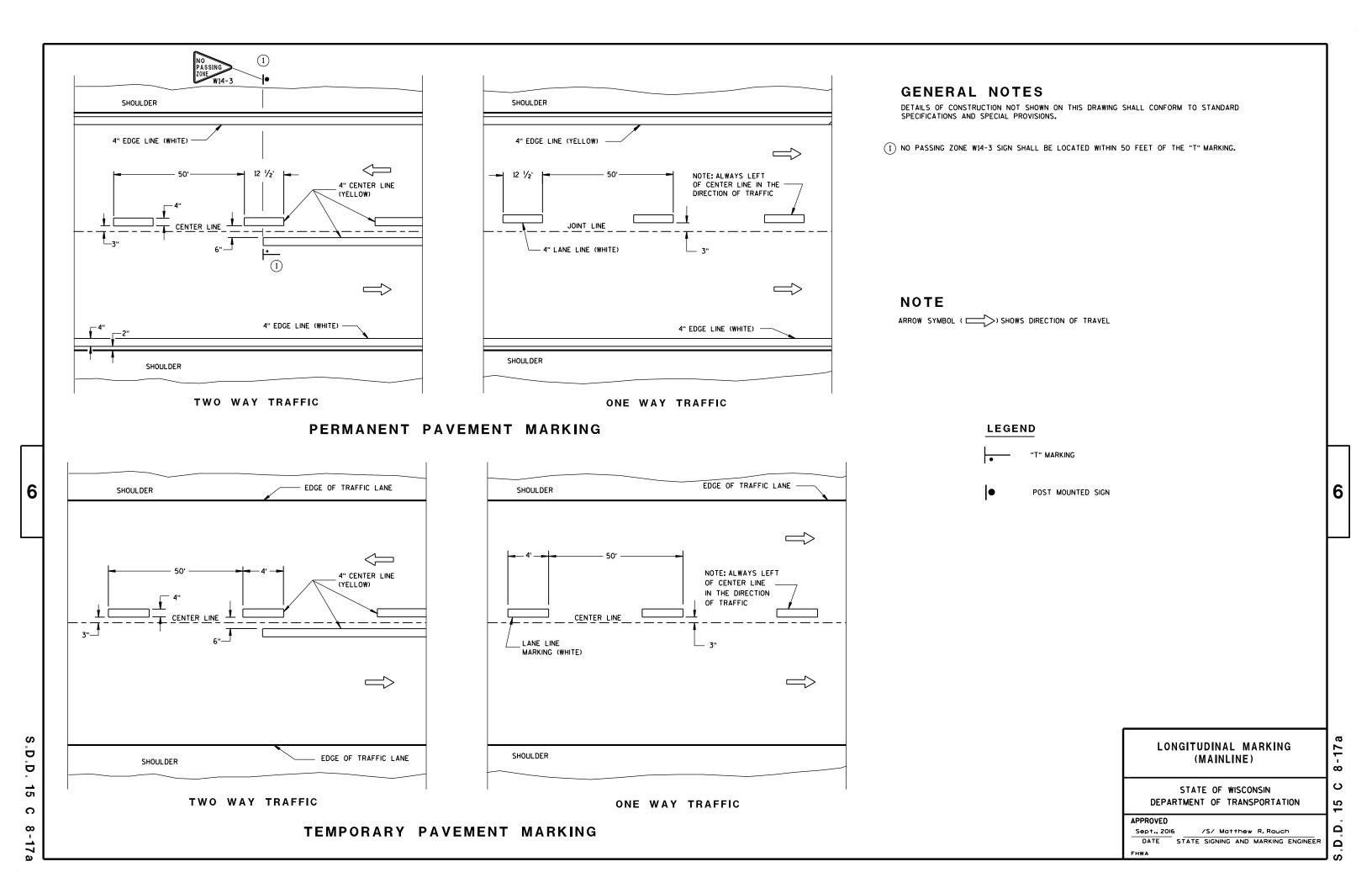
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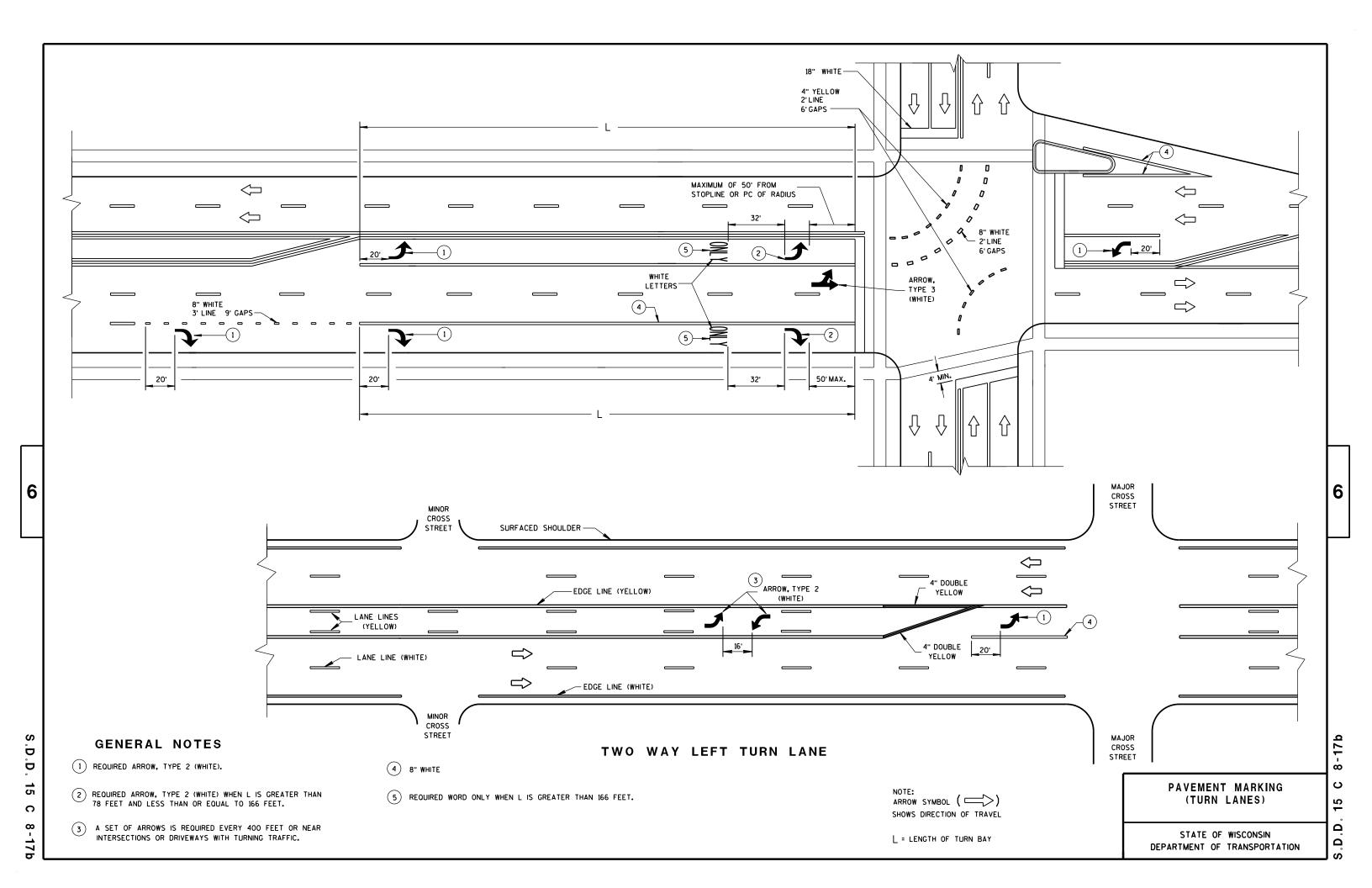
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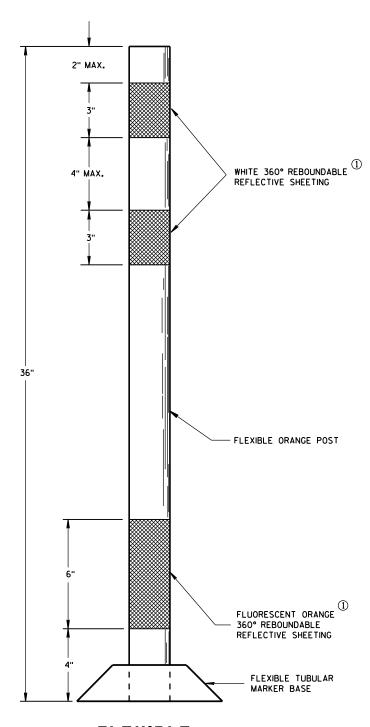
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FLEXIBLE TUBULAR MARKER POST **WORK ZONE**

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.

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

> FLEXIBLE TUBULAR MARKER POST

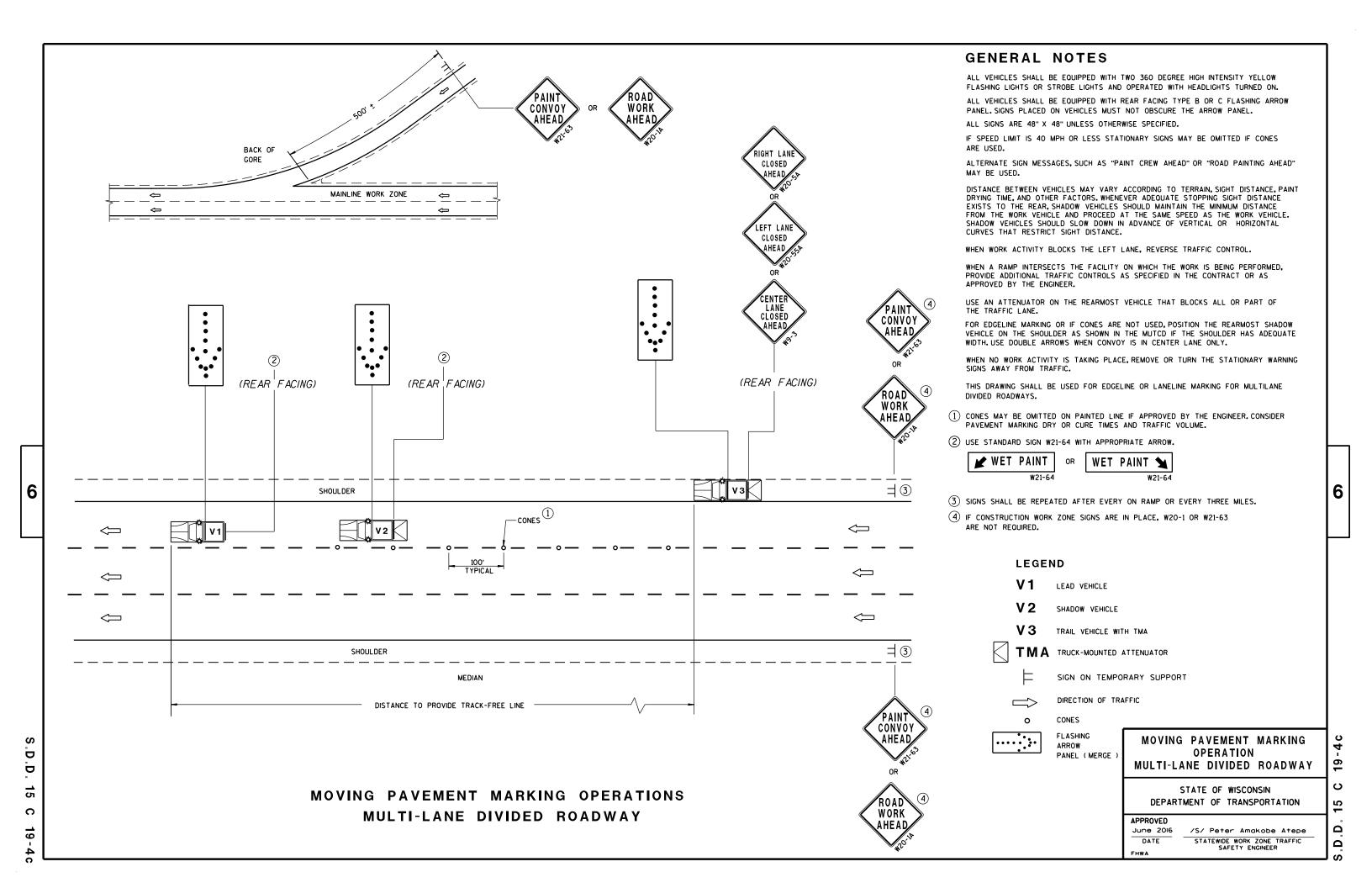
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

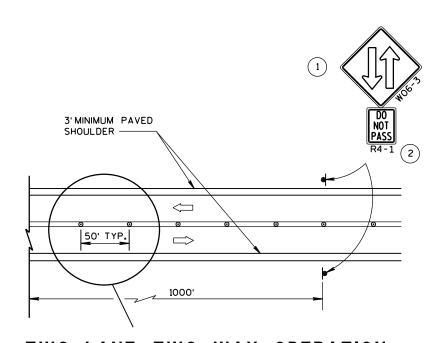
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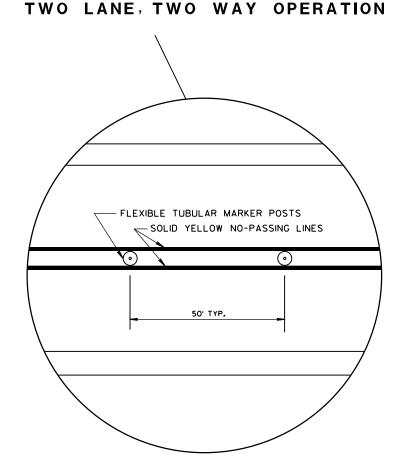
10-16-2015 STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

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

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

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

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

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

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

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





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

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

LEGEND

SIGN ON PERMANENT SUPPORT

DELINEATOR FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

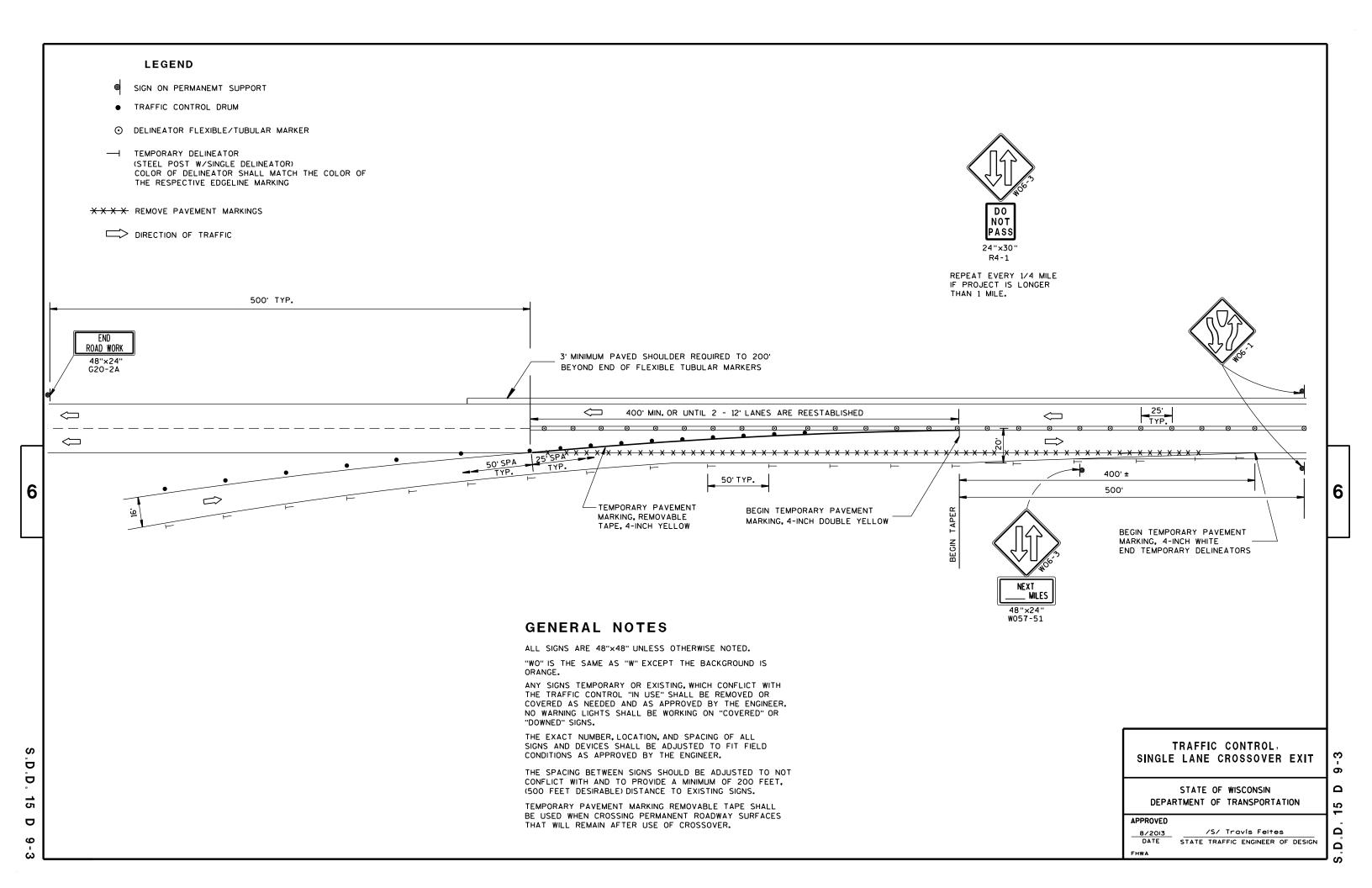
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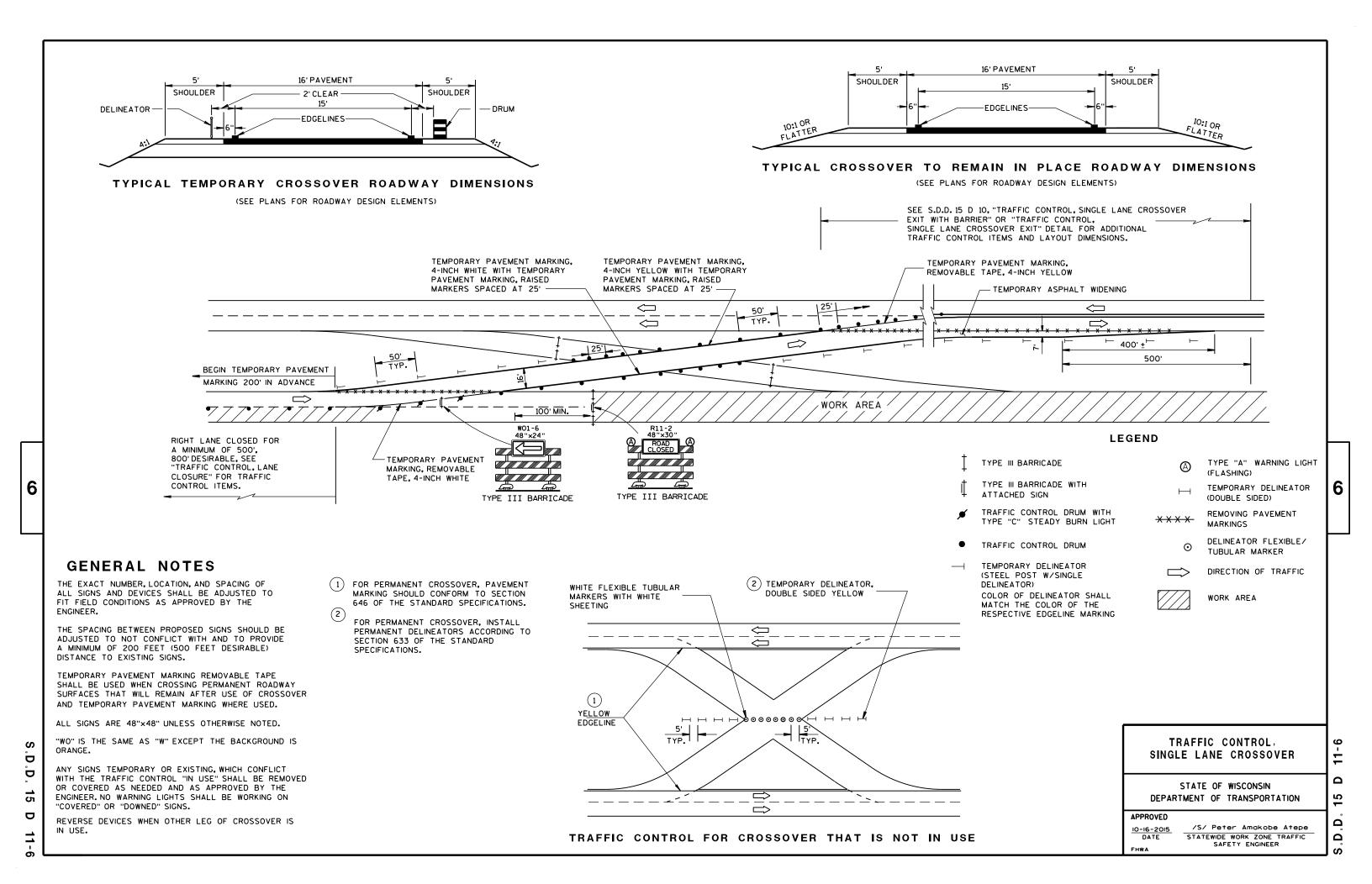
BAZOI3 /S/ Travis Feltes

DATE STATE TRAFFIC ENGINEER OF DESIGN /S/ Travis Feltes

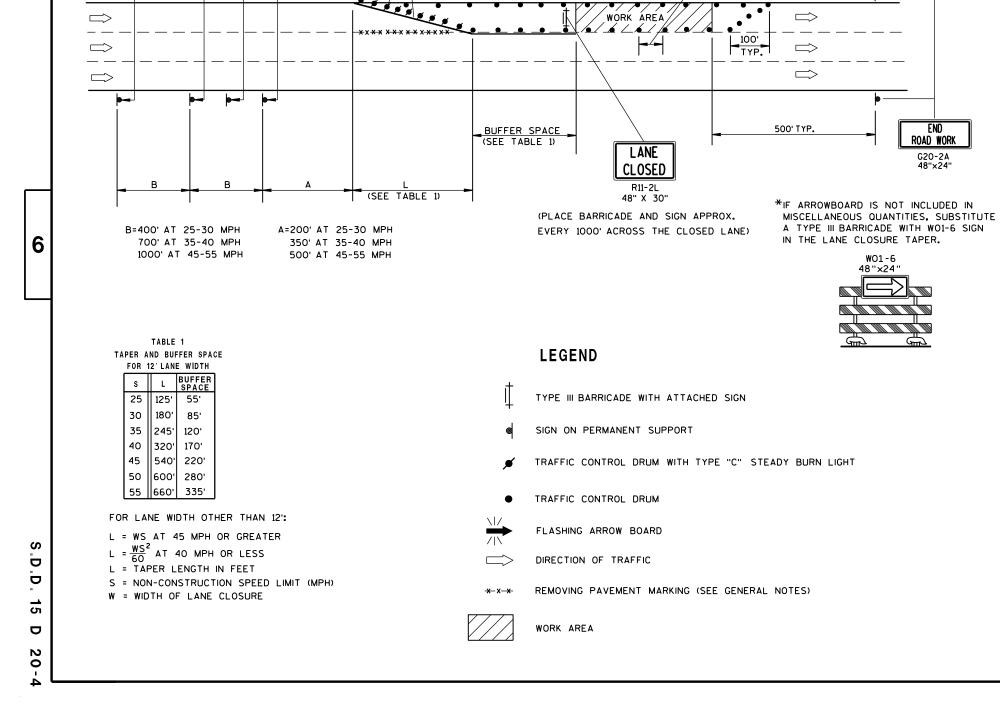
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(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

TEMPORARY PAVEMENT MARKING.

4-INCH REMOVABLE TAPE (WHITE ON RIGHT,

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

YELLOW ON LEFT)

SPACING:

ROAD WORK

NEXT___MILES

G20-1

60" X 24"

CLOSED

AHEAD

AHEAD

GENERAL NOTES

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

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

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

50' MAX. @ 35 MPH OR LESS

100' MAX. @ 40 MPH OR MORE

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC. IN ADVANCE OF THE WORK AREA.

SPACING:

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.

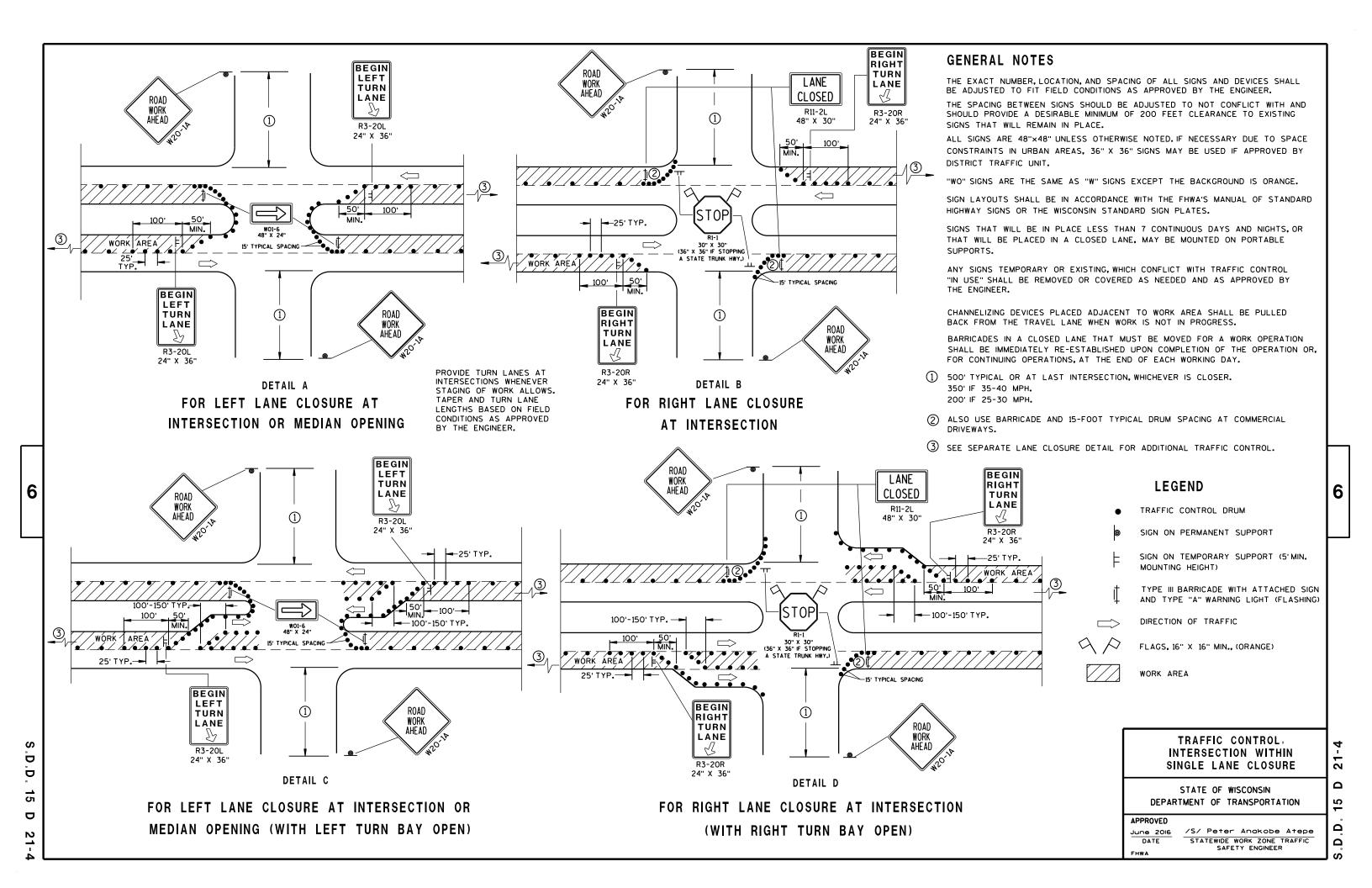
TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

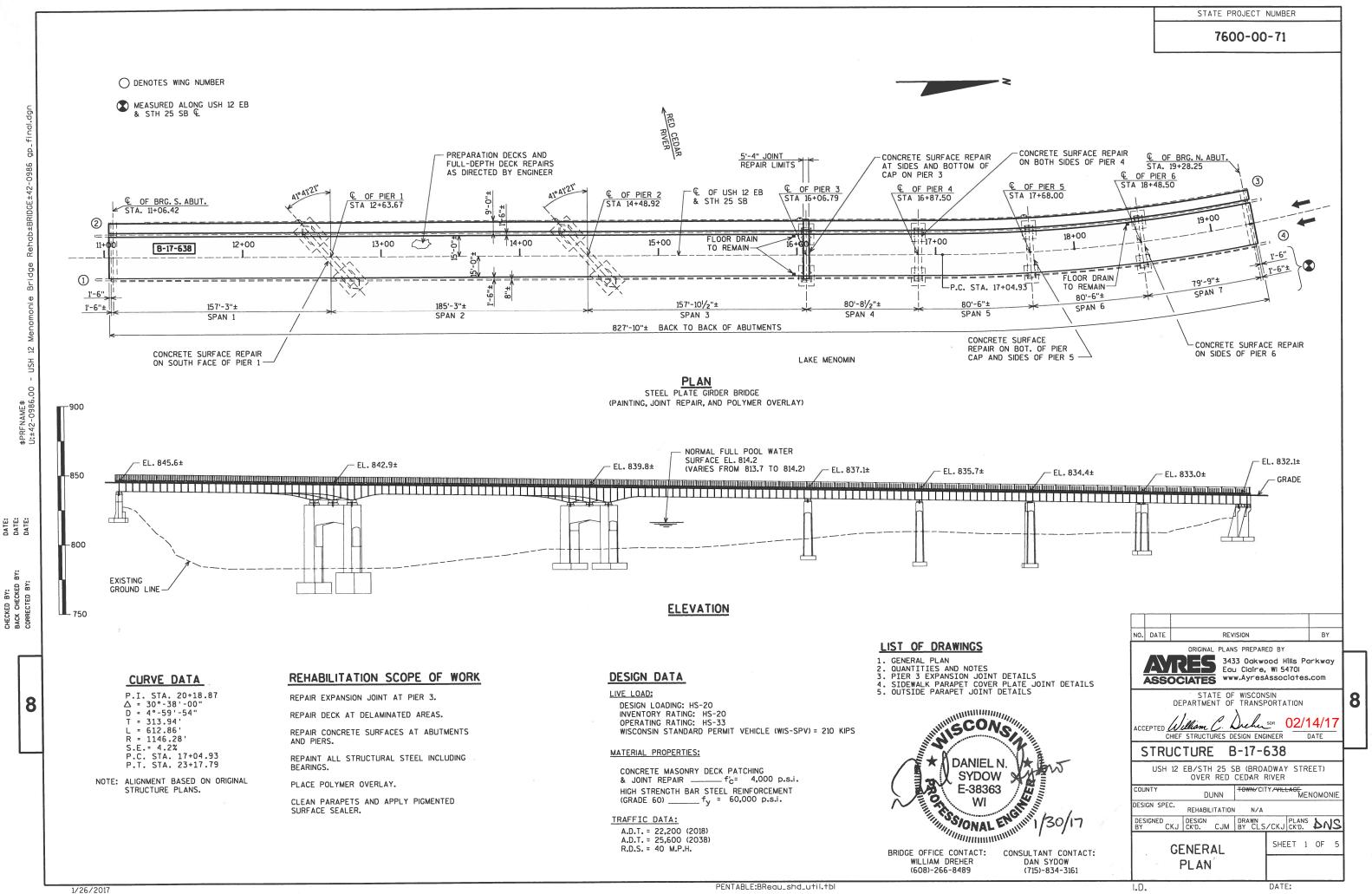
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2016

/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

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TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
	502.3100	EXPANSION DEVICE B-17-638	LS	1
	502.3210	PIGMENTED SURFACE SEALER	SY	893
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,210
	509.0301	PREPARATION DECKS TYPE 1	SY	140
	509.0302	PREPARATION DECKS TYPE 2	SY	60
	509.1000	JOINT REPAIR	SY	25
	509.1500	CONCRETE SURFACE REPAIR	SF	200
	509.2000	FULL DEPTH DECK REPAIR	SY	2
1	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	14
_	509.5100.S	POLYMER OVERLAY	SY	3,590
	509.9050.S	CLEANING PARAPETS	LF	1,690
②	517.0900.S	PREPARATION AND COATING OF TOP FLANGES B-17-638	LS	1
	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-17-638	LS	1
	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-17-638	LS	1
	517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1
	SPV.0035.001	CONCRETE MASONRY DECK PATCHING	CY	17
	SPV.0090.001	SAWING PAVEMENT DECK PREPARATION AREAS	LF	1,600
			•	
			•	

- (1) FOR CONCRETE MATERIAL AT JOINT REPAIR AREA
- (2) ITEM FOR USE AT TOP FLANGES IN JOINT REPAIR AREA

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED. DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

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

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE. PREPARATION DECKS, CONCRETE SURFACE REPAIR, AND FULL-DEPTH DECK REPAIR SHALL BE AS DETERMINED BY THE

ENGINEER IN THE FIELD.

THE COLOR OF THE FINISH EPOXY TOP COAT FOR THE GIRDERS, STRINGERS, FLOOR BEAMS, BEARINGS, AND ALL OTHER MISCELLANEOUS STEEL SHALL BE BROWN (FEDERAL STANDARD COLOR NO. 20059). ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1 INCH

DEEP SAWCUT. UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS

SPECIFIED OTHERWISE. EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-17-638".

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

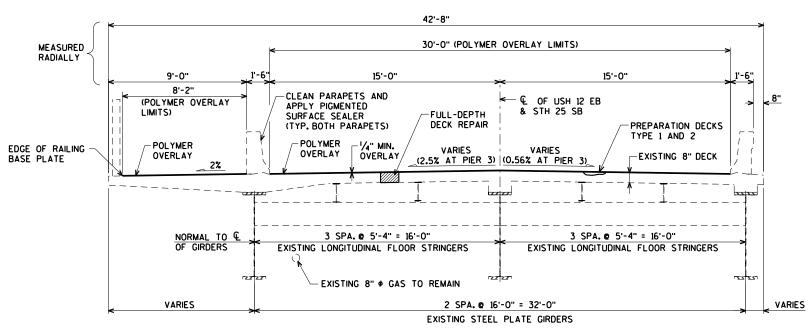
ITEM "POLYMER OVERLAY".

PREPARATION DECKS TYPE 1 AND TYPE 2 AND FULL DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK PATCHING".

DEFINE LIMITS OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", & "FULL DEPTH DECK REPAIR" WITH A 1" DEEP SAWCUT BEFORE REMOVING THE DETERIORATED CONCRETE, THE
SAWCUT SHALL BE PAID AS "SAWING PAVEMENT DECK PREPARATION AREAS".

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT
THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID

CLEAN PARAPETS AND APPLY PIGMENTED SURFACE SEALER TO ALL FACES OF THE WEST PARAPET AND THE TOP AND INSIDE FACES OF THE EAST PARAPET.



CROSS SECTION THRU BRIDGE

(LOOKING NORTH)



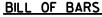
AND NOTES

ASSOCIATES www.AyresAssociates.com

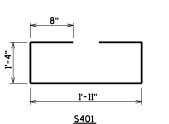
ARES 3433 Ookwood Hills Parkway Eau Claire, WI 54701

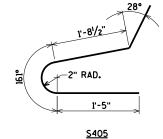
1/30/2017

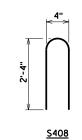
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. NO.	D BAR	REO'D.	LENGTH	BAR	DLED	SERIES	2,210 COATED
BAR.	COATED	NO. F	NEN	BENT	BUNDL	BAR	LOCATION
S401	Х	84	5-7	Х			DIAPH. VERT.
S602	Х	60	5-0				DIAPH. BOT. HORIZ.
S403	Х	48	5-0				DIAPH. TOP HORIZ.
S604	Х	18	42-4				TRANSVERSE TOP AND BOT.
S405	Х	16	4-3	Х			SIDEWALK AND OUTSIDE PARAPET VERT.
S406	Х	8	4-10	X			SIDEWALK PARAPET VERT.
S507	Х	20	2-3				SIDEWALK AND OUTSIDE PARAPET HORIZ.
S408	Х	8	4-7	Х			OUTSIDE PARAPET VERT.







<u> S406</u>

SHADED UNDERSIDE DECK TEMP. (°F)	JOINT OPENING (NORMAL TO JT.)
85°	13/4"
75°	17/8"
65°	2"
55°	21/8"
45°	21/4"
35°	2¾"
25°	21/2"
15°	2%"
5°	23/4"

A SMALL JOINT OPENING DUE TO A HIGH TEMPERATURE AT TIME OF CONSTRUCTION MAY REQUIRE NEOPRENE STRIP SEAL INSTALLATION INTO STEEL EXTRUSIONS PRIOR TO SETTING THE

■ JOINT OPENING DIMENSION PLUS 1/2".



JOINT DETAILS

8

OUTSIDE PARAPET

← € OF INT. GIRDER/STRINGER

S602 BOT. S403 TOP

TYPICAL DIAPHRAGM

REINFORCEMENT

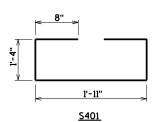
S401

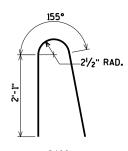
S401

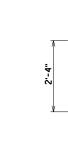
S602 BOT. S403 TOP

BAR. NO.	ATED BAR O. REO'D. LENGTH ENT BAR SUNDLED OR SERIES		SERIES	2,210" COATED			
BAR	COATE	NO. F	ΓEΝ	BENT	BUND	BAR	LOCATION
S401	X	84	5-7	X			DIAPH. VERT.
S602	Х	60	5-0				DIAPH. BOT. HORIZ.
S403	X	48	5-0				DIAPH. TOP HORIZ.
S604	Х	18	42-4				TRANSVERSE TOP AND BOT.
S405	X	16	4-3	х			SIDEWALK AND OUTSIDE PARAPET VERT.
S406	Х	8	4-10	Х			SIDEWALK PARAPET VERT.
S507	Х	20	2-3				SIDEWALK AND OUTSIDE PARAPET HORIZ.
S408	X	8	4-7	Х			OUTSIDE PARAPET VERT.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



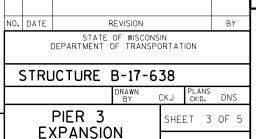




TEMPERATURE TABLE

BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

SEE SHEET 4 FOR SECTION A AND SHEET 5 FOR SECTION C.



EXT. GIRDER IS SHOWN TO THE RIGHT OF SIDEWALK PARAPET FOR CLARITY. 5'-4" JOINT REPAIR LIMITS PRESERVE EXISTING LONGITUDINAL BARS 2'-8" 2'-8" −SET 1/8" BELOW POLY. OVERLAY € EXP. JOINT → 4 SPA. @ 61/2" = 2'-2' Δ S403 TOP OF EXISTING DECK-TOP OF EXISTING DECK-(5) S403 6" MIN. 6" MIN. <u>31/4"</u> SPA. @ 61/2" = 1'-71/2" PRESERVE EXISTING LONGITUDINAL BARS S602 S602 4 EO. SPACES 4 EO. SPACES END OF STRINGERS END OF GIRDERS 2'-3" ∐ 2'-3" € OF FLOOR BEAM € OF FLOOR BEAM

30'-0"

S604

(4)

(3)

PART PLAN AT JOINT

1'-6" MAX. 1'-6"

MAX.

€ OF INT.

TYPICAL TRANSVERSE

DECK REINFORCEMENT

GIRDER/STRINGER

SECTION THRU JOINT DIMENSIONS ARE NORMAL TO & OF JOINT

ASSOCIATES www.AyresAssociates.com PENTABLE:BReau_shd_util.tbl

9'-0"

SIDÉWALK

- (10)

(ii)

REMOVE AND REINSTALL EXISTING PEDESTRIAN RAILING, INCLUDING ANCHOR BOLTS, AS REQUIRED TO CONSTRUCT NEW JOINT. COST FOR REMOVING AND REINSTALLING PORTIONS OF THE RAILING IS

MAX

- PEDESTRIAN RAILING

789/

(7)(8)(9)

-PEDESTRIAN RAILING BASE PLATE

INCIDENTIAL TO THE BID ITEM "JOINT REPAIR".

LIMITS

5'-4" REPAIR

SIDEWALK

PARAPET

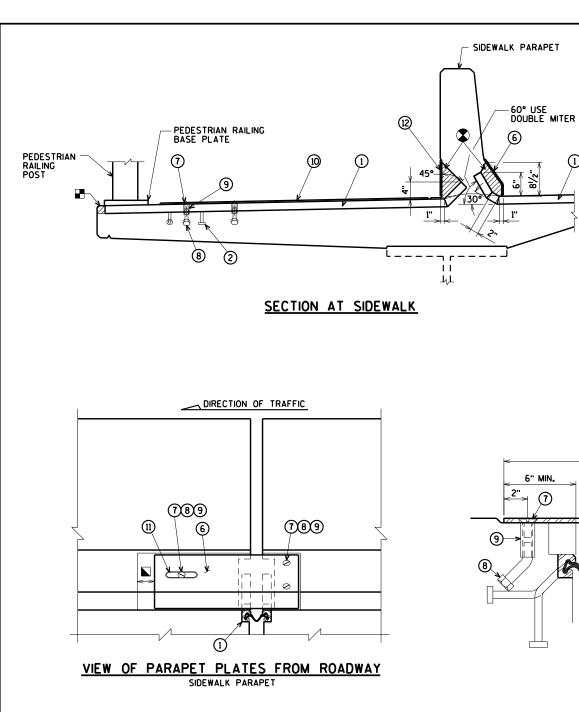
€ OF EXT. GIRDER →

(<u>3</u>)

-<u>08</u>0

€ OF EXT. GIRDER —



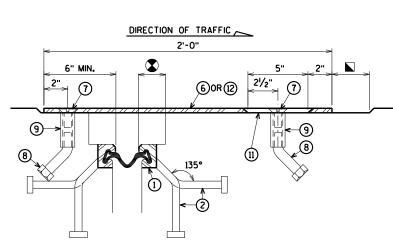


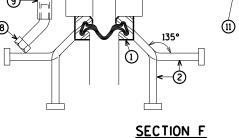
789

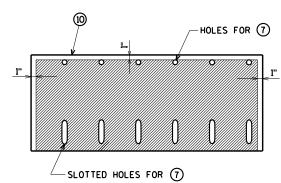
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VIEW OF PARAPET PLATES FROM SIDEWALK

SIDEWALK PARAPET





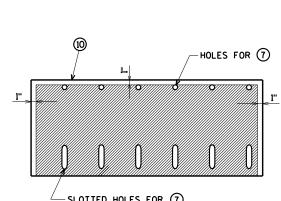


PLAN OF SIDEWALK COVER PLATE WITH SLIP-RESISTANT SURFACE

BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

■ JOINT OPENING DIMENSION PLUS 1/2".

BLOCK OUT CONCRETE ABOVE AND AT END OF EXTRUSIONS.



▼ F (1)

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JOINT DETAILS

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0

60° > 30°

SECTION A SIDEWALK PARAPET SEE SHEET 3 FOR LOCATION OF SECTION A.

> SIDEWALK PARAPET SHEET 4 OF 5 COVER PLATE

TOP OF POLYMER :

S405 © 9"

8

STATE PROJECT NUMBER

TOP OF POLYMER OVERLAY

TOP OF STEEL EXTRUSION

1

1'-6"±

TYPICAL SIDEWALK PARAPET CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH

S507

S507

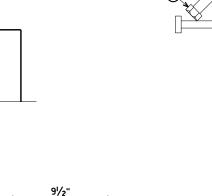
2"± 7"±

7600-00-71

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SEE SHEET 3 FOR LOCATION OF SECTION C.

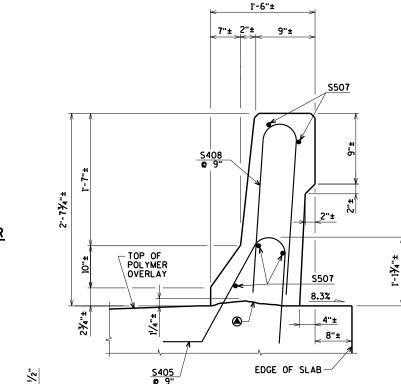
SECTION C OUTSIDE PARAPET



9

30° 1¾" R.

ALTERNATE STRIP SEAL ANCHOR



DIRECTION OF TRAFFIC

2'-0'

135°

SECTION B

1

21/2"

(7)

TYPICAL OUTSIDE PARAPET

CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH

BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

■ JOINT OPENING DIMENSION PLUS 1/2".

▲ SEE SHEET 3 FOR JOINT OPENING TABLE.

LEGEND

- 1 NEOPRENE STRIP SEAL (4 INCH) AND STEEL EXTRUSIONS.
- ② STUDS 5%" * x 63%" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- (A) 1/2" THICK ANCHOR PLATE WITH 5%" OR OUT OF ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
- 4 34" THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
- 5 FABRICATE SUPPORT FROM 3" X 1/2" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 11/2" \$\phi\$ HOLE FOR NO. 3 AND 1" \$\phi\$ HOLE
- 6 GALVANIZED PLATE $\frac{3}{6}$ " X $\frac{10}{2}$ " X 2'-2" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
- (7) 3/4" * X 11/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
- (8) ¾" o X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- (9) 3/4" * X 21/4" GAL VANIZED THREADED COUPLING.
- SIDEWALK COVER PLATE 3/8" X 2'-O" X LIMITS SHOWN WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.
- $\ensuremath{\text{(1)}}$]" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.
- (2) GALVANIZED PLATE 38" X 101/2" X 2'-2" LONG WITH HOLES FOR NO. 7.

<u>NOTES</u>

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING, OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

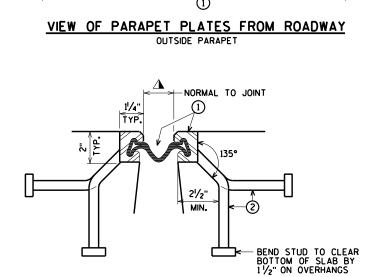
AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. *6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

ANCHOR SYSTEM NO.8 AND NO.9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-17-638".



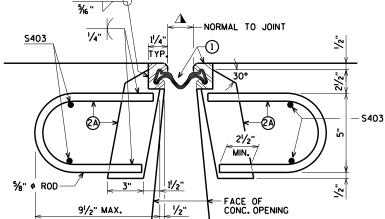
1

DIRECTION OF TRAFFIC

789

789

SECTION THRU JOINT EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS



SECTION THRU JOINT ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS. SYM. ABOUT & JOINT UNLESS OTHERWISE SHOWN OR NOTED

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-17-638 CKJ PLANS CK'D. DNS SHEET 5 OF 5

OUTSIDE PARAPET JOINT DETAILS

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Notes



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