Section No.

TOTAL SHEETS =

Dec 08, 2020 STATE OF WISCONSIN ORDER OF SHEETS Section No. **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details Section No. Estimate of Quantities Section No. Section No. Miscellaneous Quantities Section No. Right of Way Plat

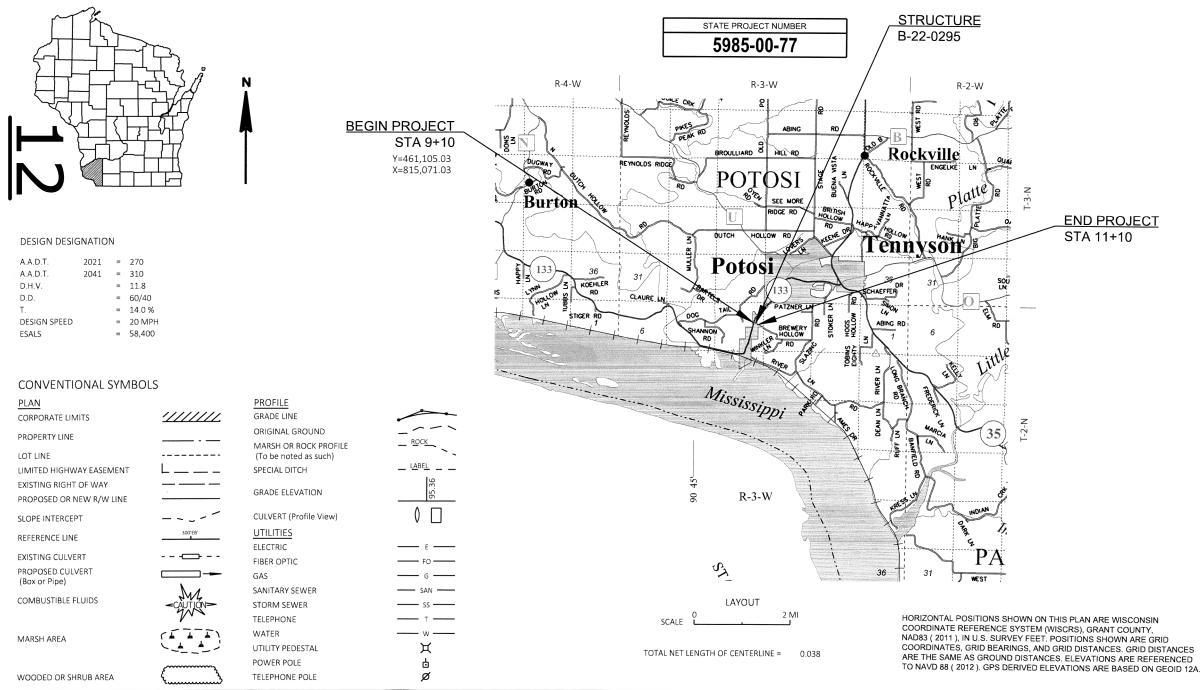
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5985-00-77

PLAN OF PROPOSED IMPROVEMENT

V OF POTOSI, BREWERY HOLLOW RD

POTOSI BRANCH BRIDGE, B-22-0295

LOC STR **GRANT COUNTY**



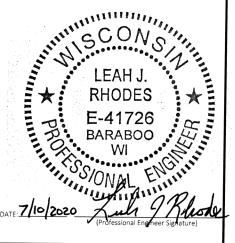
ACCEPTED FOR VILLAGE OF POTOSI

7/10/20 Michael J. Whitaker

ORIGINAL PLANS PREPARED BY



(608) 242-7779 www.msa-ps.com



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Surveyor Designer Project Manage MSA PROFESSIONAL SERVICES, INC MSA PROFESSIONAL SERVICES, INC. MSA PROFESSIONAL SERVICES, INC.

Regional Examine

ALEIGHA BURG, P.E. OSCAR WINGER, P.E.

APPROVED FOR THE DEPARTMENT

Aleigha Burg, P.E. Date: 2020.07.13 06:26:18-05'00' DATE: 7/13/2020

Ε

Standard Detail Drawing

52

WISDOT/CADDS SHEET 42

2

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 B		IN DIA	INCH DIAMETER	SPECS	SPECIFICATIONS
CB	BENCH MARK	INL	INLET	SQ	SQUARE
	CATCH BASIN	ID	INSIDE DIAMETER	SF OR SQ FT	SQUARE FEET
€ OR C/L	CENTER LINE	Ī	INTERSECTION ANGLE	SY	SQUARE YARD
C - C CONC	CENTER TO CENTER	ΙE	INVERT ELEVATION	SSPRC	STORM SEWER
CONC	CONCRETE COUNTY	IP	IRON PIPE OR PIN	331110	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	
CITIC		LS	LUMP SUM	55 T	STORM SEWER TANGENT
0 0 0	REINFORCED CONCRETE	MH	MANHOLE	TEL	TELEPHONE
C & G	CURB AND GUTTER			TEMP	TEMPORARY
D	DEGREE OF CURVE	N	NORTH	TLE	TEMPORARY LIMITED EASEMENT
DHV	DESIGN HOUR VOLUME	Y	NORTH GRID COORDINATE	T	TON
DIA OR Ø	DIAMETER	0E	OUTLET ELEVATION	TC	TOP OF CURB
DIST	DISTRICT	OL	OUT LOT	TN	TOWN
DWY	DRIVEWAY	OD	OUTSIDE DIAMETER	TRANS	TRANSITION
E	EAST	OH	OVERHEAD LINES		
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	PΙ	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	VERTICAL CURVE
	AXLE LOADS	PE	PRIVATE ENTRANCE	VOL	VOLUME
EXC	EXCAVATION	R OR RAD	RADIUS	WM	WATER MAIN
EBS	EXCAVATION BELOW	RR	RAILROAD	WV	WATER VALVE
	SUBGRADE	R	RANGE	W	WEST
EXIST	EXISTING	R OR R/L	REFERENCE LINE	WB	WESTBOUND
EXP	EXPANSION	REQD	REQUIRED	YD	YARD
F - F	FACE TO FACE	RT	RIGHT		
FERT	FERTILIZER	R / W	RIGHT-OF-WAY		
FE	FIELD ENTRANCE	RD	ROAD		

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
		А			В	1		C		D		
	SL0PE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
TURF	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-			.25			.27			.28			.30
TURF			.32			.34			.36			.38
PAVEMENT:			•	•		•			•			
ASPHAL T						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
R00FS						.7595						
GRAVEL ROADS.	SHOULDE	ERS				.4060						

TOTAL PROJECT AREA = 0.29 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.22 ACRES

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: LEAH RHODES, PE 1702 PANKRATZ STREET MADISON, WI 53704 608-355-8945 LRHODES@MSA-PS.COM

VILLAGE CONTACT

VILLAGE OF POTOSI ATTN: MICHAEL WHITAKER, VILLAGE PRESIDENT 105 NORTH MAIN STREET POTOSI, WI 53820 608-778-4272 POTOSIPRESIDENT@GMAIL.COM

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES ATTN: ANDY BARTA 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 608-235-2955 ANDREW.BARTA@WISCONSIN.GOV

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED AT 3 LBS. PER 1000 SOUARE FEET.

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

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMARKS WERE LOCATED IN THE FIELD USING GPS TECHNOLOGY.

THE 4" ASPHALTIC SURFACE SHALL CONSIST OF A $1\frac{3}{4}$ " UPPER LAYER WITH 12.5MM NOMINAL SIZE AGGREGATE AND A $2\frac{1}{4}$ " LOWER LAYER WITH 19.0MM NOMINAL SIZE AGGREGATE.

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND SHALL BE PLACED PRIOR TO CONSTRUCTION OR BRIDGE REMOVAL. TURBIDITY BARRIER SHALL BE PLACED IMMEDIATELY FOLLOWING REMOVAL OF THE EXISTING BRIDGE FLOOR AND SHALL REMAIN IN PLACE UNTIL ABUTHENT FORMWORK IS REMOVED. HEAVY RIPRAP PLACEMENT SHALL OCCUR UNDER DRY CONDITIONS WHEN THE FLOOR SLAB IS REMOVED OR IT SHALL BE SEPARATED FROM THE STREAM BY TURBIDITY BARRIER.

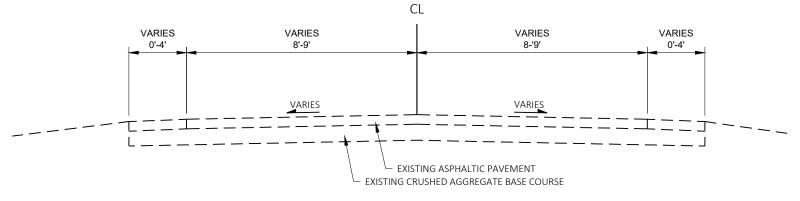
NO WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS.

PROJECT NO: 5985-00-77 HWY: LOC STR COUNTY: GRANT GENERAL NOTES

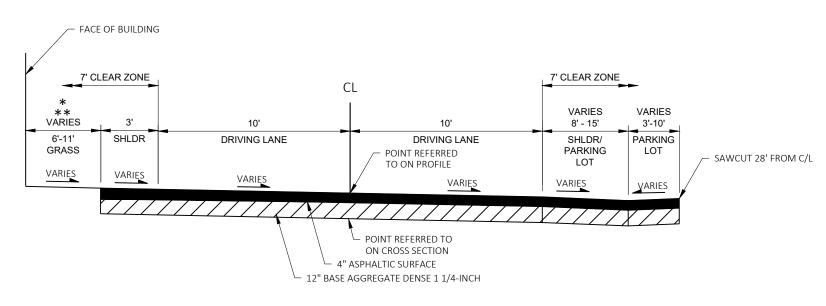
FILE NAME: P:\3400S\3400S\3405\03405\

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EXISTING TYPICAL SECTION



FINISHED TYPICAL SECTION

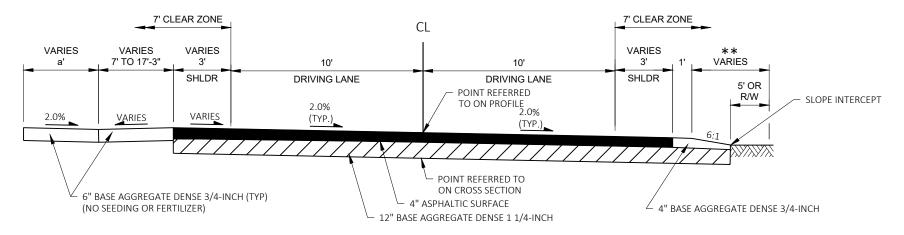
STA. 9+10 - STA. 9+60

LEGEND:

- * TOPSOIL AND EROSION MAT URBAN CLASS I TYPE B LIMITS
- ** SEEDING MIXTURE #20 & FERTILIZER TYPE B LIMITS

Ε SHEET PROJECT NO: 5985-00-77 HWY: LOC STR COUNTY: GRANT TYPICAL SECTIONS P:\3400S\3400S\3405\03405008\CADD\SHEETSPLAN\020301_TS.DWG LAYOUT NAME - 1-TS PLOT BY: JULIA ZEHNER PLOT SCALE : FILE NAME :



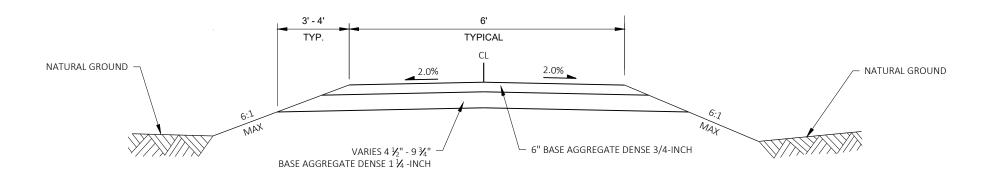


FINISHED TYPICAL SECTION

STA. 9+60 - STA. 9+86.75 a=3' STA. 10+17.25 - STA. 11+10 a=0'

LEGEND:

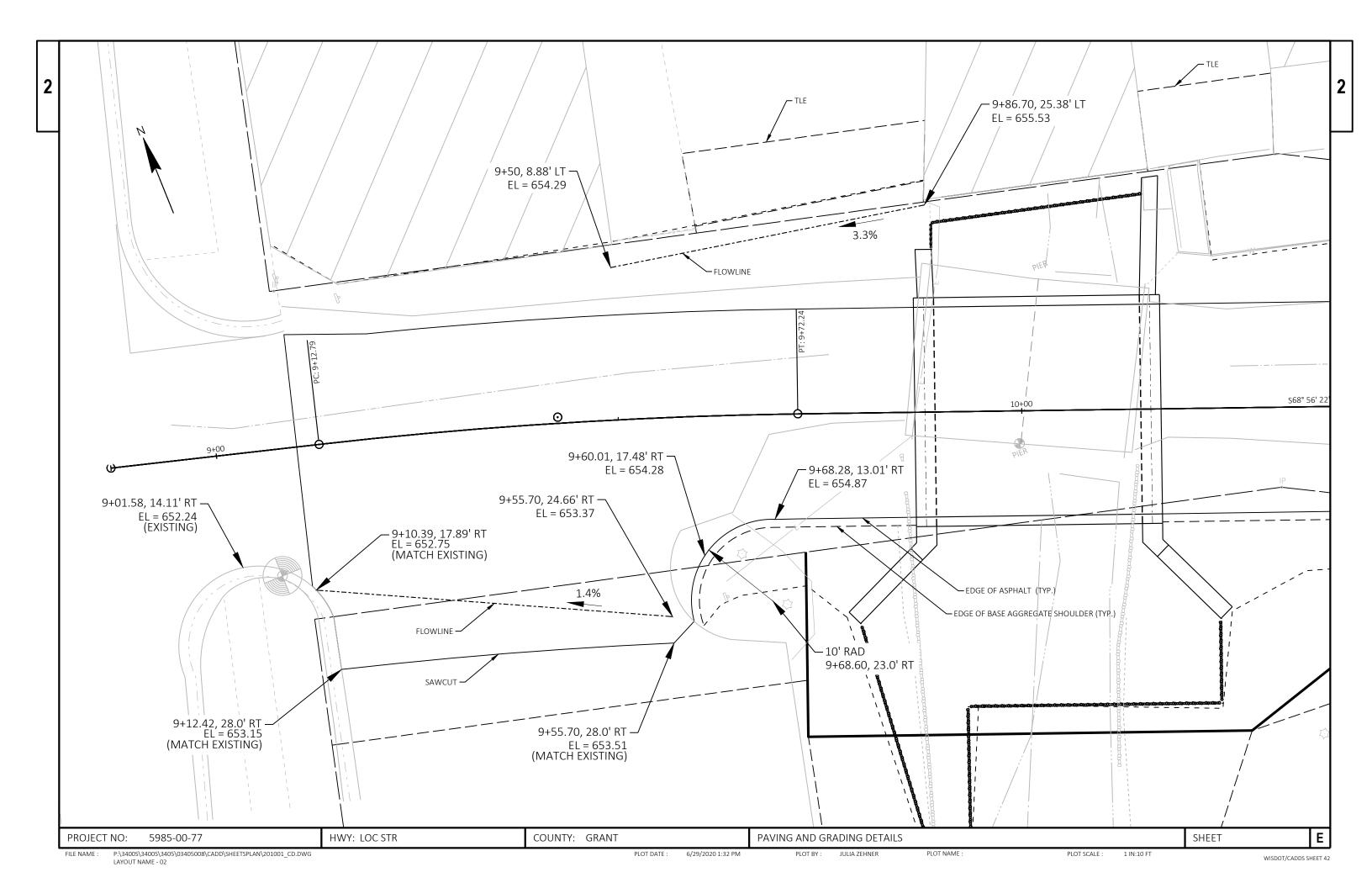
** SEEDING MIXTURE #20 & FERTILIZER TYPE B LIMITS



TYPICAL SECTION THROUGH PRIVATE PEDESTRIAN PATH

STA. 10+60 RT

PROJECT NO: 5985-00-77	HWY: LOC STR	COUNTY: GRANT		TYPICAL SECTIO	NS				SHEET	E	
FILE NAME : P:\3400S\3400S\3405\03405008\CADD\SHEETSPLAN\020301_TS.DWG		PLOT DATE : 6/29	29/2020 1:30 PM	PLOT BY :	JULIA ZEHNER	PLOT NAME :	PLOT SCALE :	1 IN:5 FT	\\	ISDOT/CADDS SHEE	12



0074

0076

637.2210 Signs Type II Reflective H 637.2230 Signs Type II Reflective F

					5985-00-77
Line	Item	Item Description	Unit	Total	Qty
0002	205.0100	Excavation Common	CY	211.000	211.000
0004	206.1000	Excavation for Structures Bridges (structure) 01. B-22-	LS	1.000	1.000
		295			
0006	210.1500	Backfill Structure Type A	TON	495.000	495.000
8000	213.0100	Finishing Roadway (project) 01. 5985-00-77	EACH	1.000	1.000
0010	305.0110	Base Aggregate Dense 3/4-Inch	TON	57.000	57.000
0012	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	398.000	398.000
0014	455.0605	Tack Coat	GAL	28.000	28.000
0016	465.0105	Asphaltic Surface	TON	125.000	125.000
0018	502.0100	Concrete Masonry Bridges	CY	131.000	131.000
0020	502.3200	Protective Surface Treatment	SY	90.000	90.000
0022	502.3210	Pigmented Surface Sealer	SY	45.000	45.000
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	4,300.000	4,300.000
0026	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	13,290.000	13,290.000
0028	511.1200	Temporary Shoring (structure) 01. B-22-295	SF	470.000	470.000
0030	513.7021	Railing Steel Type C4	LF	61.000	61.000
0032	513.8021	Railing Steel Pedestrian Type C4	LF	57.000	57.000
0034	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000
0036	550.0020	Pre-Boring Rock or Consolidated Materials	LF	498.000	498.000
0038	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	540.000	540.000
0040	606.0300	Riprap Heavy	CY	155.000	155.000
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	140.000	140.000
0042	618.0100	Maintenance And Repair of Haul Roads (project) 01.	EACH	1.000	1.000
3011	310.0100	5985-00-77		1.000	1.000
0046	619.1000	Mobilization	EACH	1.000	1.000
0048	624.0100	Water	MGAL	9.000	9.000
0050	625.0100	Topsoil	SY	163.000	163.000
0052	628.1504	Silt Fence	LF	180.000	180.000
0054	628.1520	Silt Fence Maintenance	LF	180.000	180.000
0056	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0060	628.2008	Erosion Mat Urban Class I Type B	SY	163.000	163.000
0062	628.6005	Turbidity Barriers	SY	140.000	140.000
0064	629.0210	Fertilizer Type B	CWT	0.130	0.130
0066	630.0120	Seeding Mixture No. 20	LB	5.000	5.000
0068	630.0200	Seeding Temporary	LB	5.000	5.000
0008	630.0200	Seed Water			
			MGAL	5.000	5.000
0072	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	5.000	5.000

6.250 12.000

SF SF

6.250

12.000

Estimate Of Quantities

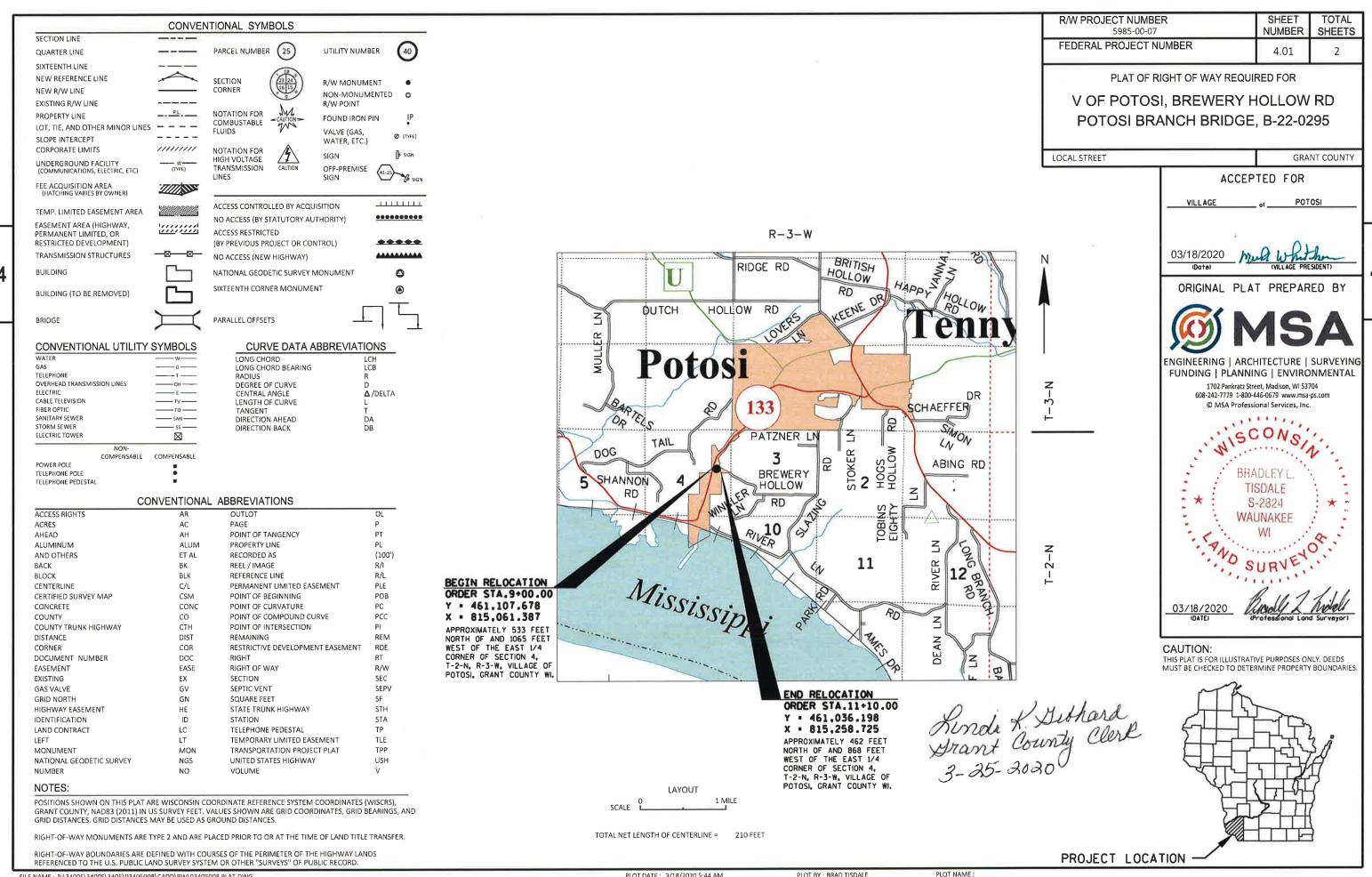
5985-00-77

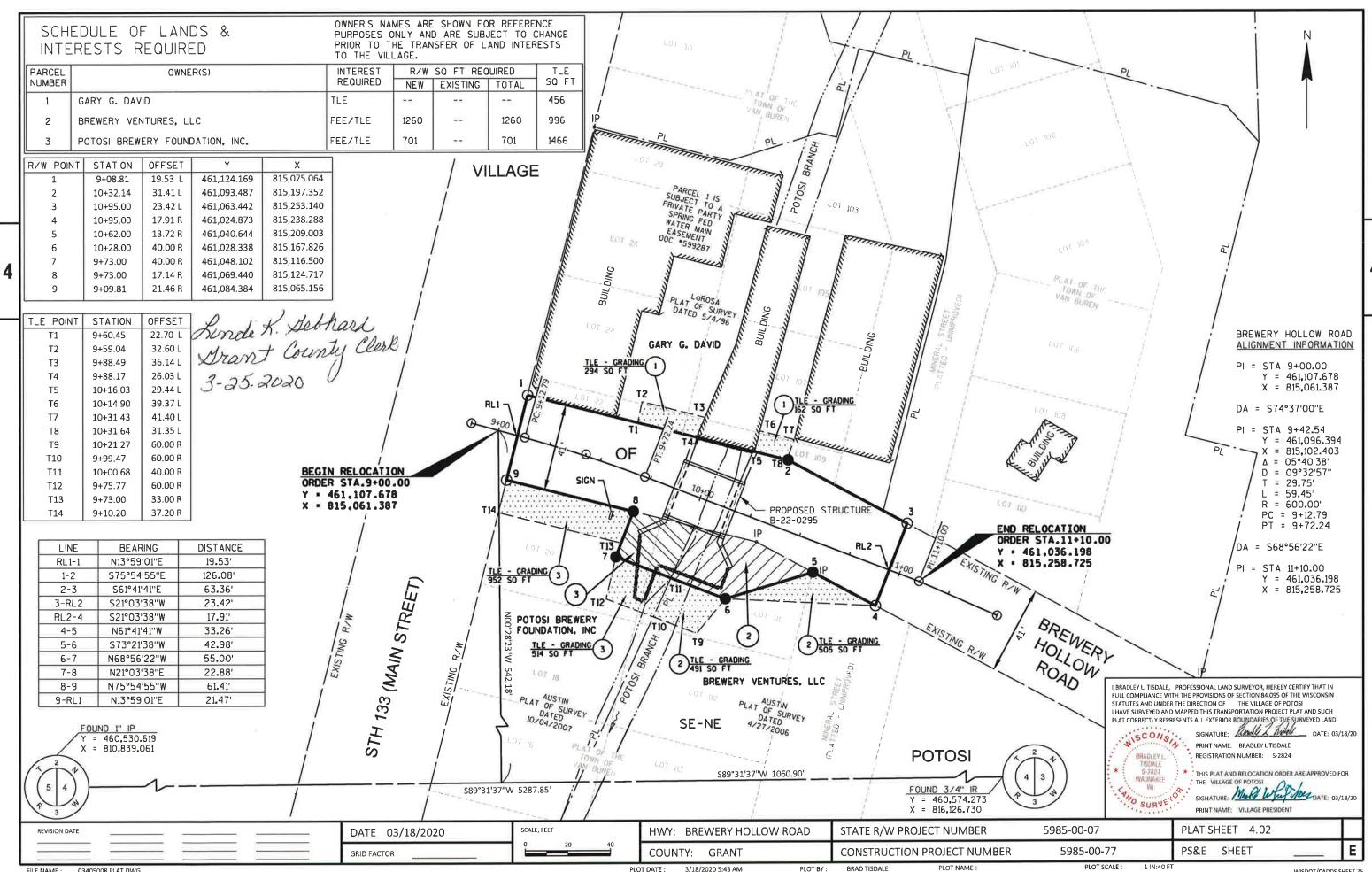
Page 2

Line	Item	Item Description	Unit	Total	Qty
0078	638.2602	Removing Signs Type II	EACH	1.000	1.000
0800	638.3000	Removing Small Sign Supports	EACH	1.000	1.000
0082	642.5001	Field Office Type B	EACH	1.000	1.000
0084	643.0420	Traffic Control Barricades Type III	DAY	1,600.000	1,600.000
0086	643.0705	Traffic Control Warning Lights Type A	DAY	2,400.000	2,400.000
8800	643.0900	Traffic Control Signs	DAY	800.000	800.000
0090	643.5000	Traffic Control	EACH	1.000	1.000
0092	645.0111	Geotextile Type DF Schedule A	SY	98.000	98.000
0094	645.0120	Geotextile Type HR	SY	260.000	260.000
0096	650.4500	Construction Staking Subgrade	LF	170.000	170.000
0098	650.5000	Construction Staking Base	LF	170.000	170.000
0100	650.6500	Construction Staking Structure Layout (structure) 01. B-22-295	LS	1.000	1.000
0102	650.9910	Construction Staking Supplemental Control (project) 01. 5985-00-77	LS	1.000	1.000
0104	650.9920	Construction Staking Slope Stakes	LF	170.000	170.000
0106	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	63.000	63.000
0108	690.0150	Sawing Asphalt	LF	96.000	96.000
0110	715.0502	Incentive Strength Concrete Structures	DOL	786.000	786.000
0112	999.1000.S	Seismograph	LS	1.000	1.000
0114	999.1500.S	Crack and Damage Survey	LS	1.000	1.000
0116	SPV.0105	Special 01. Removing Old Structure Over Waterway Special Station 10+00	LS	1.000	1.000

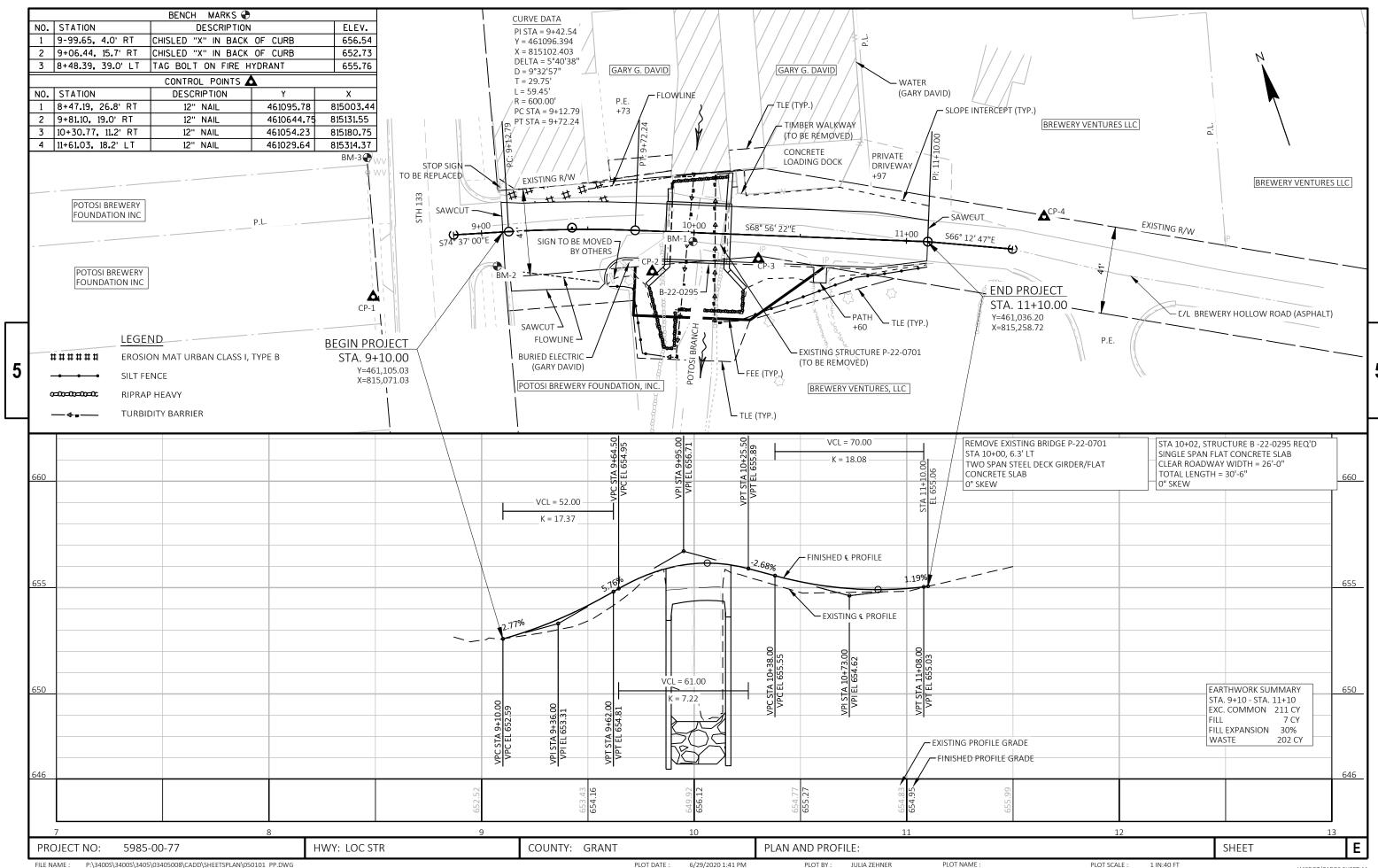
EVOAVATION OOM AN CON				<u>FINISHING</u>	G ROADWAY						BASI	E AGGREGATE DENSI	<u> </u>	
### EXCA CON	0100 /ATION IMON SY 05 06 11		STATION TO S	11+10 PRO	F F	13.0100.01 FINISHING ROADWAY 985-00-77) EACH		_	STATION TO 9+10 - 10+17.25 -	9+86.75	LOCATION MAINLINE MAINLINE TOTAL	20	305.0120 BASE AGGREGATE DENSE 1 1/4- INCH TON 203 195 398	
	ASPHALTIC SURFAC	E							SILTFEN	ICE				
		455.0605	465.0105 ASPHALTIC								628.1504	628.1520	628.6005	
		TACK COAT	SURFACE				CTATION	TO STATION	I LOCATI		SILT FENCE LF	SILT FENCE MAINTENANCE LF	TURBIDITY BARRIERS SY	
STATION TO STATIC	N LOCATION	GAL	TON						MAINLINI					_
9+10 - 9+86.7 10+17.25 - 11+10		15 13 28	67 58 125					- 9+60.73 - 11+10 -		e, RT. Euted	52 93 35 180	52 93 35 180	61 52 27 140	_
		EROSION CONTROL									<u>M</u>	OBILIZATIONS EROSI	ON CONTROL	
STATION TO STATION LOCATION	625.0100 TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL						MOI	M Bilizations E	628.1910 OBILIZATIONS EMERGENCY EROSION
					LD	WOAL	_				PROJECT	C		CONTROL EACH
9+10 - 9+86.75 MAINLINE, LT.	45 0	45 0	0.03 0.02	1 1	-	1 1					5985-00-7		2	2
				2		· 2					TOTAL	·	2	2
	85	85	0.05	2	-	2							-	

		STATION	LOCATION SIGI	n code size	634.0612 POSTS WOOD 4X6-INCH X 12- FT EACH	SIGNING 637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.260 REMOVIN SIGNS TYP EACH	REMOVING G SMALL SIGN	REMARKS	
		9+17 9+17 9+86 9+86 10+18 10+18	LT. F LT. W RT. W! LT. W!	R1-1 30"X30" R1-1 - 5-52L 12"X36" 5-52R 12"X36" 5-52R 12"X36" 5-52L 12"X36" TOTAL	1 - 1 1 1 - 1 5	6.25 - - - - - - 6.25	3 3 3 3 3	- 1 - - - - 1	- 1 - - - - 1	STOP SIGN EXISTING STOP SIGN BRIDGE OBJECT MARKERS BRIDGE OBJECT MARKERS BRIDGE OBJECT MARKERS BRIDGE OBJECT MARKERS	
			;	TRAFFIC CONTROL							
LOCATION	CALENDAR DAYS	TRAFFIC CONTROL BARRICADES TYPE I EACH		TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	TRAFFIC CONTROL TI SIGNS CONT	RAFFIC ROL SIGNS C	43.5000 TRAFFIC ONTROL EACH		SAWING ASPHALT SA STATION TO STATION LOCATION	690.0150 WING ASPHALT LF
BEGIN OF PROJECT/ STH 133 END OF PROJECT WINKLER LANE UNDISTRIBUTED	100 100 100 100 TOTAL	7 7 1 1	700 700 100 100 1,600	10 10 2 2	1,000 1,000 200 200 2,400	2 2 2	200 200 200 200 200 800	- - - 1 1		9+10 - 9+10 MAINLINE 9+12 - 9+59 MAINLINE, RT. 11+10 - 11+10 MAINLINE TOTAL	32 45 19 96
			CO	NSTRUCTION STAKI	NG						
	STATION TO STATIC		650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.6500.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (B-22-0295) LS	650.9910.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (5985-00-77) LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF			SEISMOGRAPH AND CRACK AND DAM 999.1000. SEISMOGRAI LOCATION LS	S 999.1500.S CRACK AND
•	9+10 - 9+86.7 10+17.25 - 11+10 -	5 MAINLINE	77 93 - 170	77 93 - 170	- - 1 1	- - 1 1	77 93 - 170			BREWERY HOLLOW RD 1 TOTAL 1	
DJECT NO: 5985-00-77		HWY: LO	C STR		COUNTY: G	RANT		MISCELL	_ANEOUS QUAN	rities	SHEET:





LAYOUT NAME - RW 1 IN 40 FT



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

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

6

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D.D. 8 E 9

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GENERAL NOTES

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

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H. EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER ∞

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

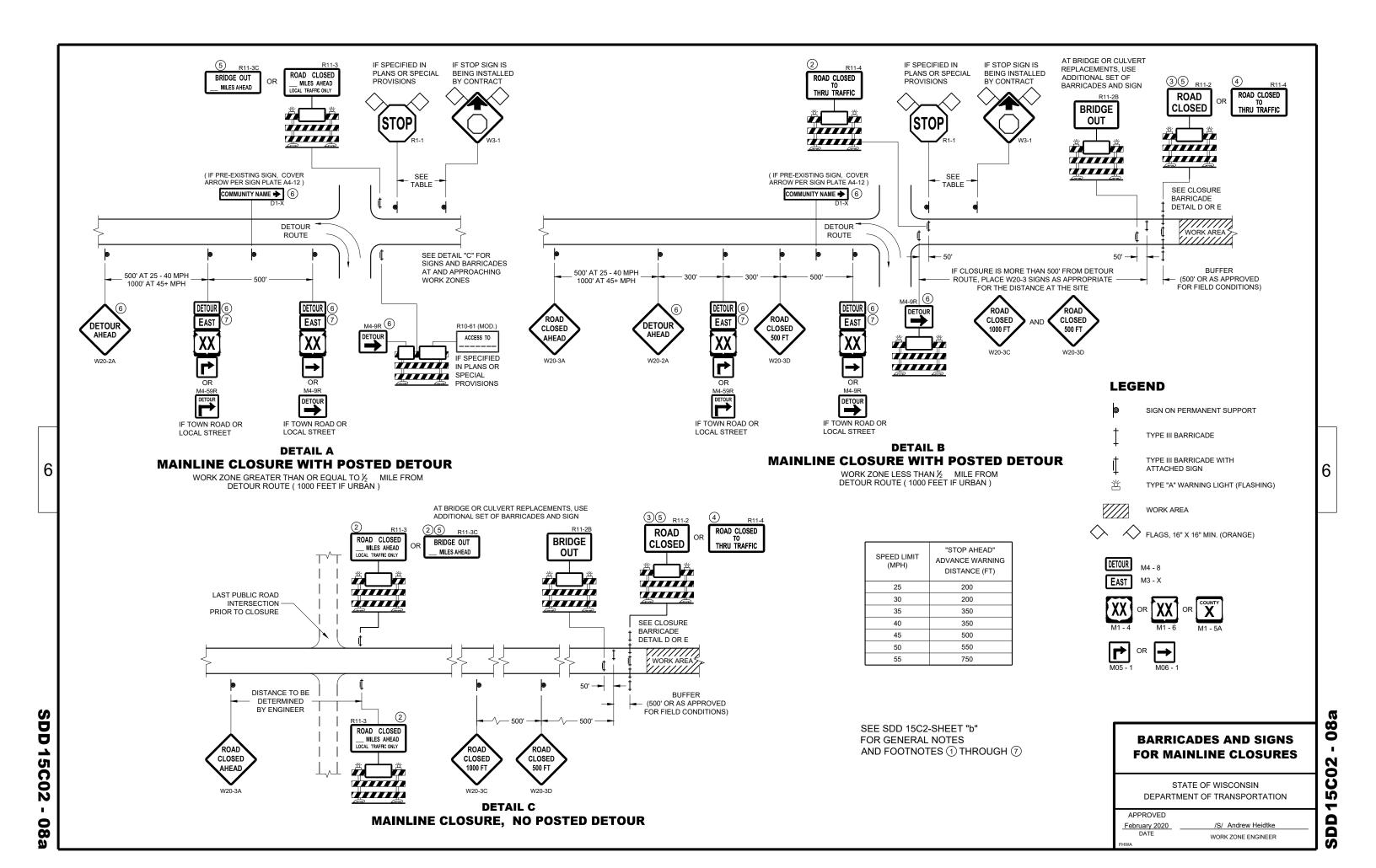
|--|

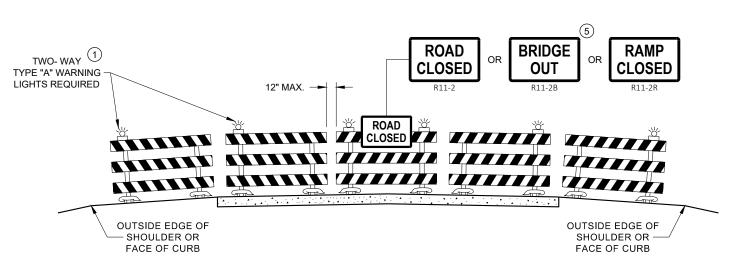
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

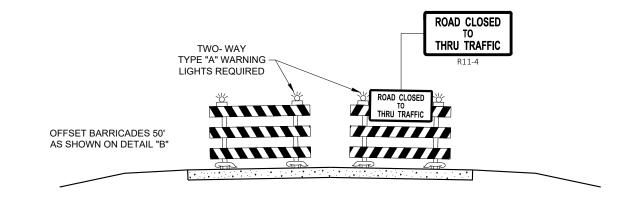
D.D. 12 A

3-10





DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

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

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

February 2020 DATE

WORK ZONE ENGINEER

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TUBULAR STEEL POSTS

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

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

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

POST SPACING REQUIREM	POST SPACING REQUIREMENTS				
L	E	WOOD POSTS REQUIRED			
48" OR LESS AND LESS THAN 20 SO.FT.	-	1			
LESS THAN 60"	12"	2	٤		
60" TO 120"	L/5	2			
GREATER THAN 120" LESS THAN 168"	12"	3			
168" AND GREATER	12"	4			

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D D 15 D ∞

6

Δ

 ∞

6

- 11/2" DIAMETER HOLES

Ω

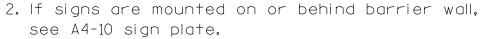
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017
DATE



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

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

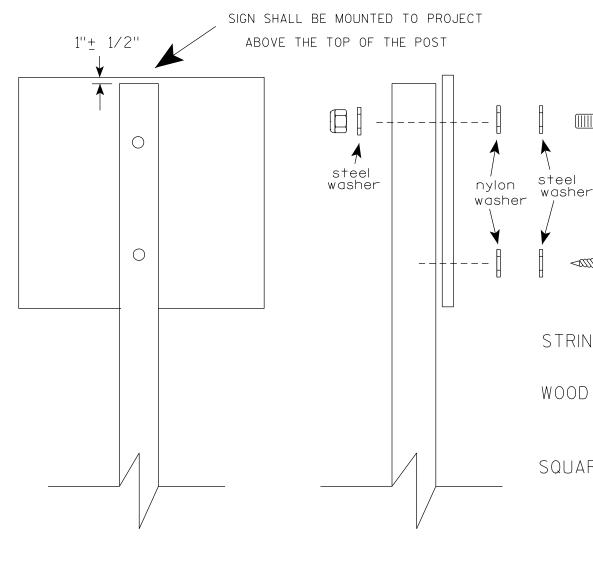
WISDOT/CADDS SHEET 42

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

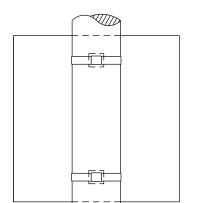
DATE 2/05/15

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

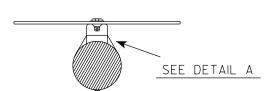
For State Traffic Engineer

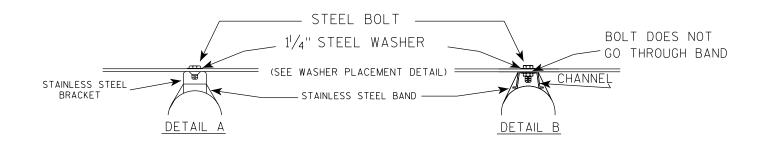


BANDING

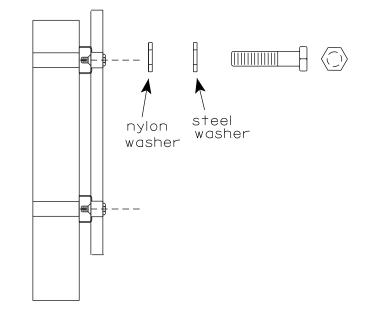


SINGLE SIGN





WASHER PLACEMENT



HWY:

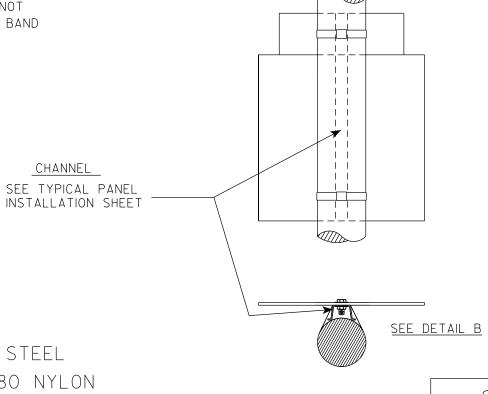
WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

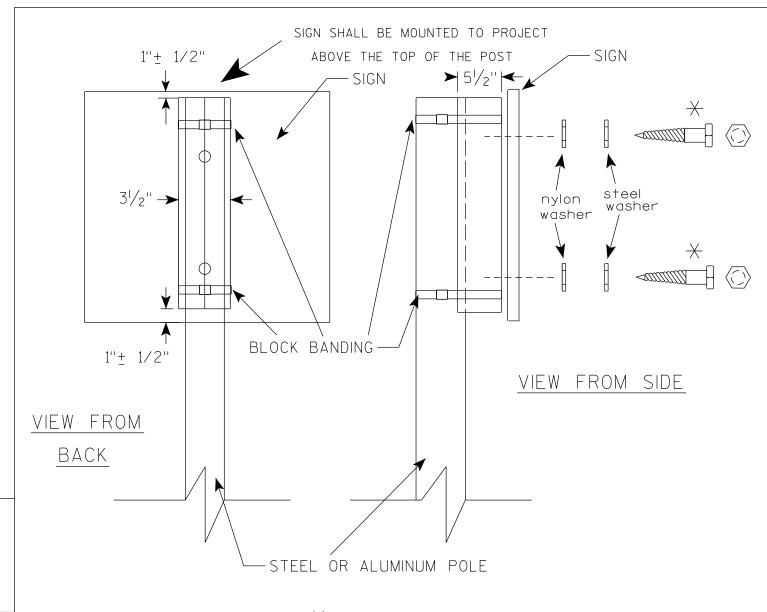
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

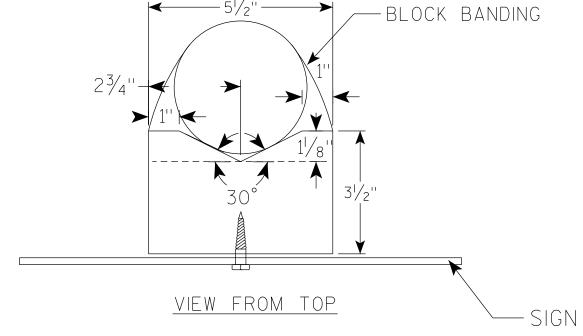
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL





GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

| APPROVED

For State Traffic Engineer

SHEET NO:

Matthew R

DATE 6/10/19

PLATE NO. _A5-10.2

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

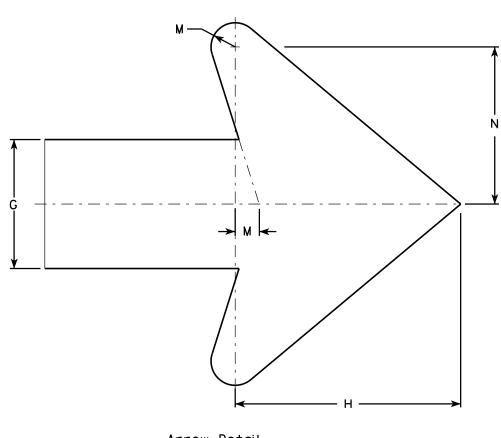
PLOT BY: mscj9h

NOTES

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

Background - Orange Message - Black

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



Arrow Detail

PLOT NAME :

W X	Y Z Arec
	5.0
	5.0
	12.0
	12.0

COUNTY:

M4-9R

STANDARD SIGN M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

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

SHEET NO:

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

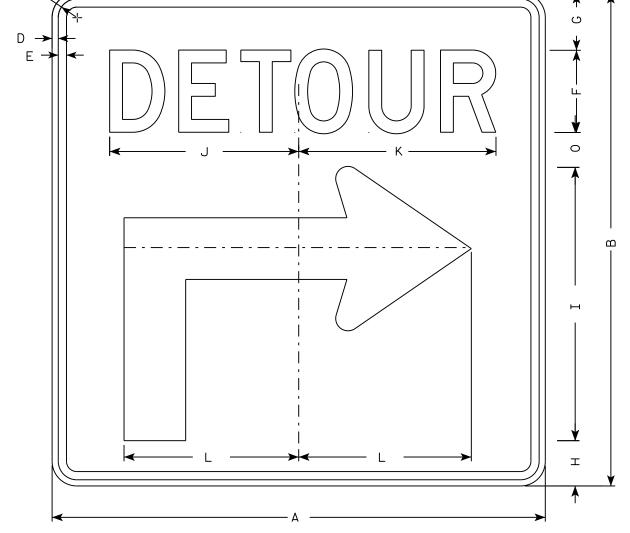
HWY:

PROJECT NO:

PLOT DATE: 09-MAR-2011 11:17

PLOT BY: mscj9h

PLOT SCALE: 5.959043:1.000000



M4-59R

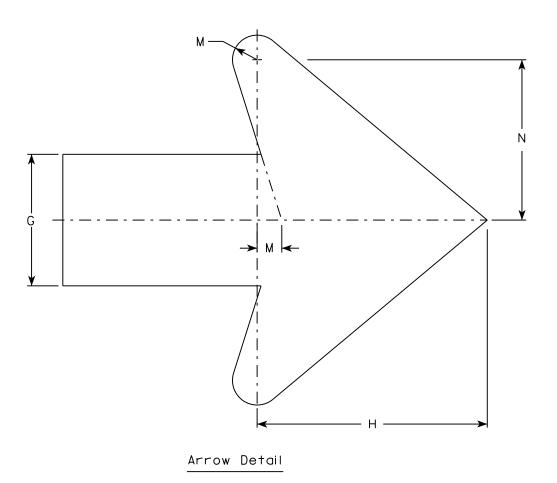
HWY:

NOTES

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

Background - Orange Message - Black

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



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	30	30	1 1/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 1/8	2 1/8												6.25
3	30	30	1 1/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 1/8	2 1/8												6.25
4	48	48	1 3/8	1/2	5/8	8	5 %	4 3/8	26 %	20 % 2	20 1/2	17	1 1/8	6 %	3 %												16.0
5	48	48	1 3/8	1/2	5/8	8	5 %	4 3/8	26 %	20 3/8 2	20 1/2	17	1 1/8	6 1/8	3 3/8												16.0

COUNTY:

STANDARD SIGN M4-59 L&R

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

Far State Traffic Engineer

DATE 11/10/15

PLATE NO. M4-59.1

FILE NAME · C·\CAFfiles\Projects\tr stdolote\M459 NGN

PROJECT NO:

PLOT DATE . 01-DEC-2015 18:05

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

PLOT SCALE . 5 837526.1 000000



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

Background - Red Message - White

3. Message Series - C

*								— А — ;											A	
									H			G —							F	A
		E						 	- 1			_//								Y
D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х

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	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>11/12/15</u>

PLATE NO. _____R1-1.13

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN

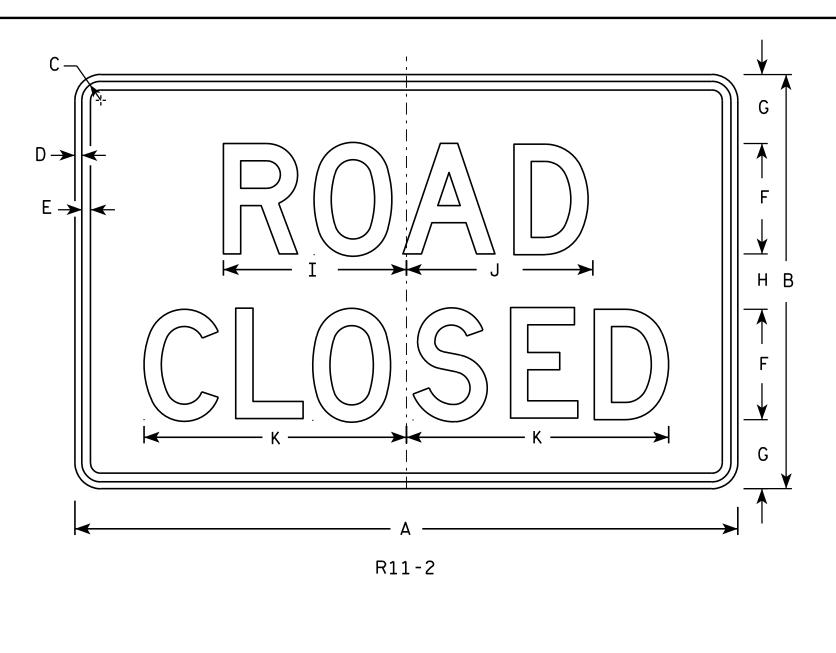
HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

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

PLOT SCALE: 4.427909:1.000000

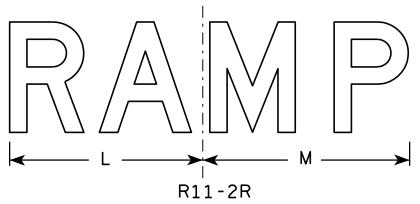


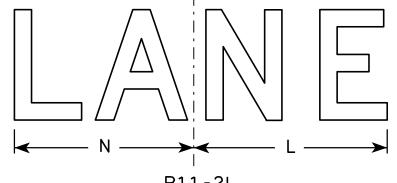
<u>NOTES</u>

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

Background - White Message - Black

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





R	1	1	-	2	L

PLOT NAME :

SIZ	Έ	A	В	С	D	E	F	G	Н	I	C	K	L	M	N	0	Р	0	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1																												
2	S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
21	I	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

COUNTY:

STANDARD SIGN R11-2

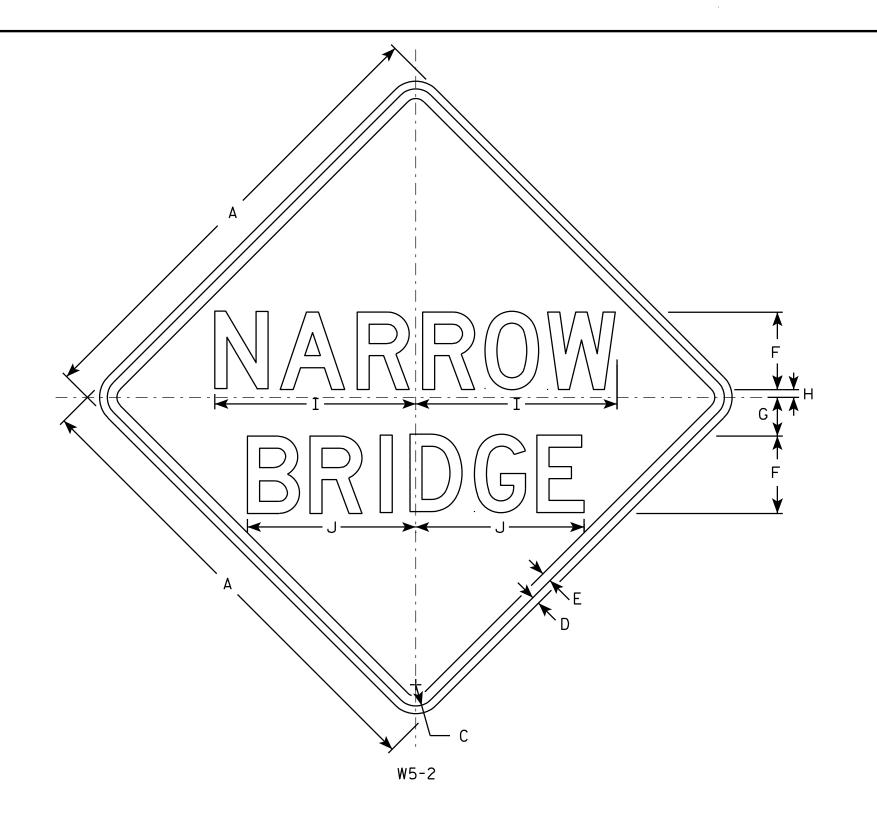
WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

HWY:

PROJECT NO:



NOTES

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

Background - Yellow Message - Black

- 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 A 1/2 5/8 5 2 1/2 30 1 3/8 1/2 13 10 1/8 6.25 2S 36 1 5/8 5/8 3/4 3/₄ | 15 5/₈ | 13 1/₈ 6 9.0 2M 36 1 5/8 5/8 ₹4 15 % 13 1/8 6 9.0 3 5/8 3/₄ | 15 5/₈ | 13 1/₈ 36 1 1/8 ₹4 9.0 2 1/4 3/4 3/₄ | 20 3/₄ 17 3/₈ 4 16.0 5 HWY: COUNTY: PROJECT NO:

STANDARD SIGN W5 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer DATE 03/12/13 PLATE NO. W5-2.8

SHEET NO:

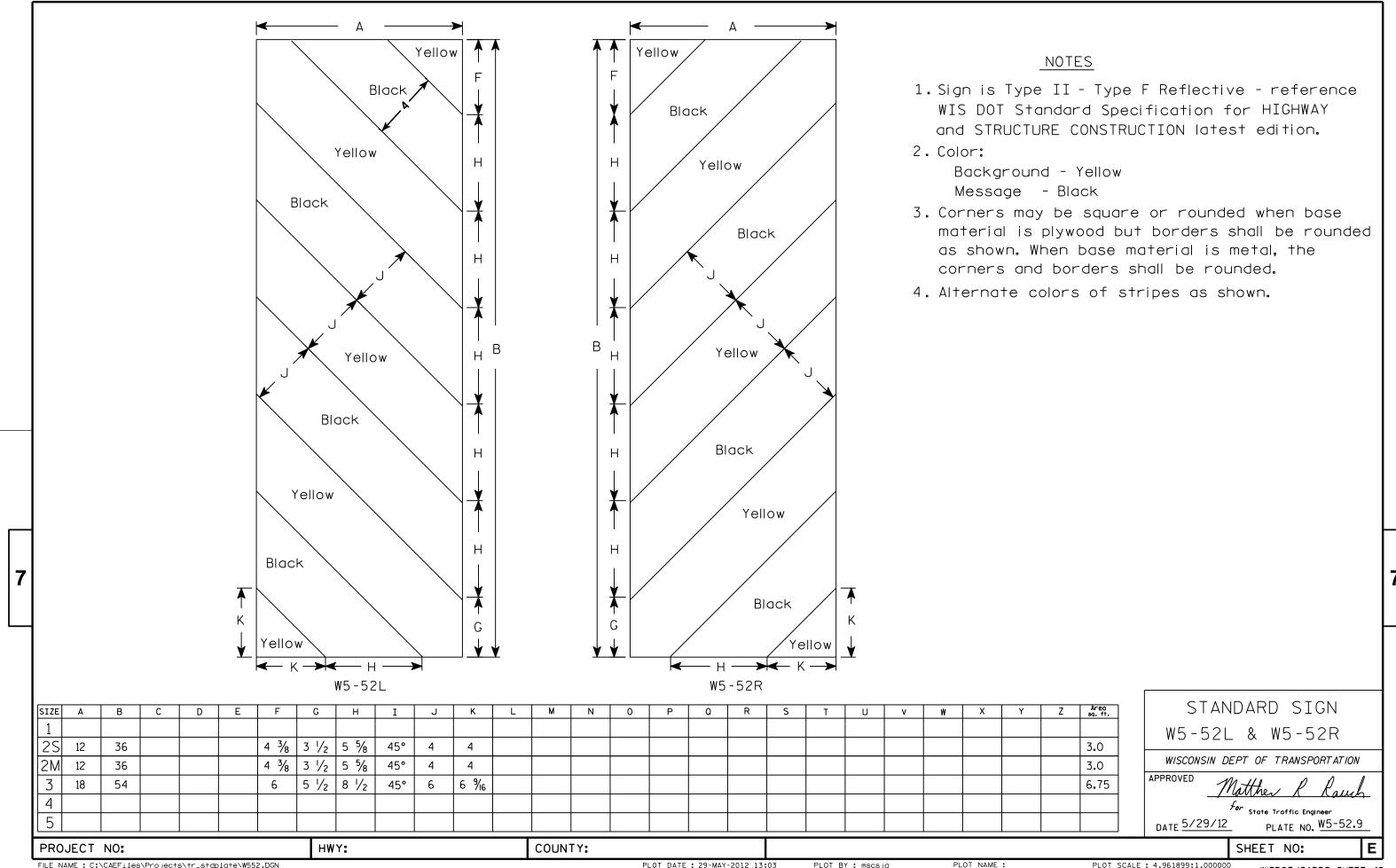
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W52.DGN

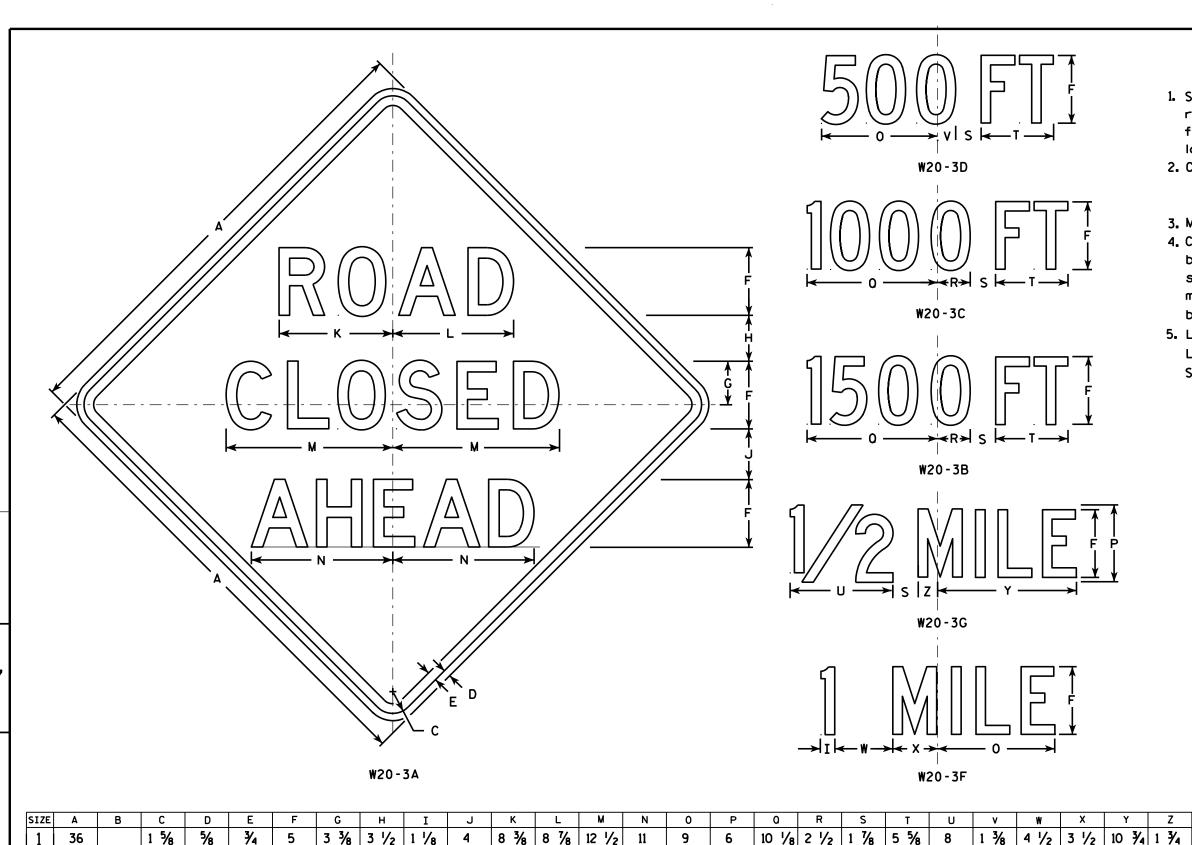
PLOT DATE: 12-MAR-2013 13:50

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 6.202372:1.000000





NOTES

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

Background - Orange Message - Black

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

STANDARD SIGN
W20-3A, B, C, D, F & G
WISCONSIN DEPT OF TRANSPORTATION
APPROVED

Mathewall Rough
For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

SHEET NO:

PROJECT NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN

2 1/4

2M

5

48

48

48

48

3/4

3/4

3/4

3/4

3/4

HWY:

COUNTY:

PLOT BY: mscj9h

7 1/2

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

7 1/2 10 5/8 1 7/8

7 1/2 10 5/8 1 7/8

10 % 1 %

PLOT NAME :

4 \(\frac{5}{8} \) 14 \(\frac{3}{8} \) 2 \(\frac{3}{8} \) 16.0

4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0

4 % | 14 % | 2 % | 16.0

4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0

4 5/8 14 3/8 2 3/8 16.0

PLOT SCALE: 9.931739:1.000000

WISDOT/CADDS SHEET 42

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

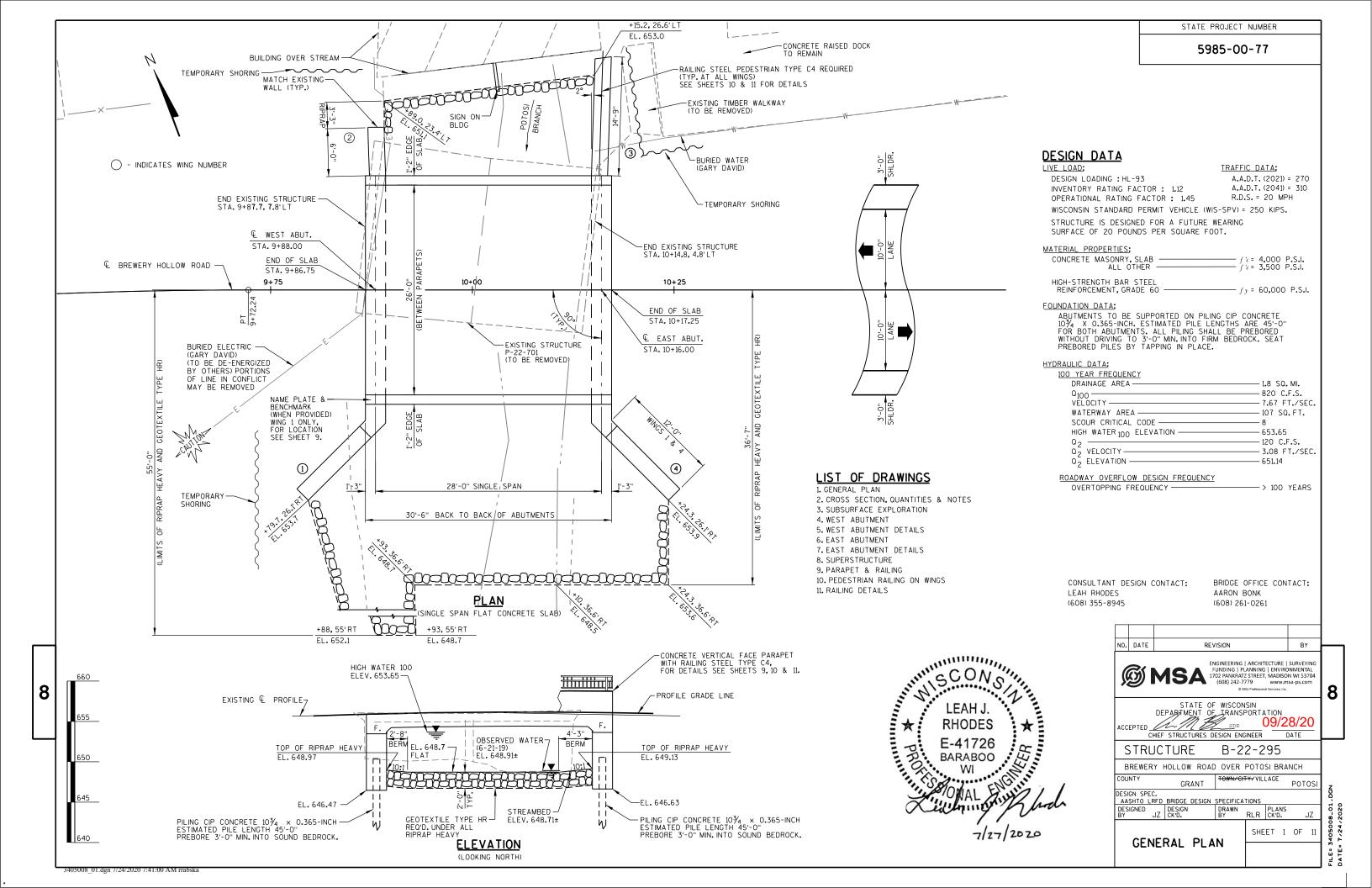
4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

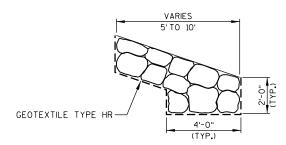
1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

| 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

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



AT ABUTMENTS IN SPAN CROSS SECTION THRU BRIDGE (LOOKING EAST)



RIPRAP TOE IN DETAIL

TOTAL ESTIMATED QUANTITIES

RIPRAP HEAVY-

ITEM NUMBER	BID ITEM	UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTAL
206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-22-295	LS	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	215	280	-	495
502.0100	CONCRETE MASONRY BRIDGES	CY	34	41	56	131
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	90	90
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	45	45
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2150	2150	-	4300
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1290	1830	10170	13290
511.1200.01	TEMPORARY SHORING B-22-295	SF	220	250	-	470
513.7021	RAILING STEEL TYPE C4	LF	-	-	61	61
513.8021	RAILING STEEL PEDESTRIAN TYPE C4	LF	27	30	-	57
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8	8	-	16
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	249	249	-	498
550.2106	PILING CIP CONCRETE 10 3/4 x 0.365-INCH	LF	270	270	-	540
606.0300	RIPRAP HEAVY	CY	82	73	-	155
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	65	75	-	140
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	46	52	-	98
645.0120	GEOTEXTILE TYPE HR	SY	138	122	-	260
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	-	-	63	63
SPV.0105.01	REMOVING OLD STRUCTURE OVER WATERWAY SPECIAL STATION 10+00	LS	-	-	1	1
	NON-BID ITEMS					
	PREFÖRMED FILLER	SIZE				1/2" & 3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

5985-00-77

STATE PROJECT NUMBER

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

THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

PLACE RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-22-295" FOR THE ABUTMENTS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

THIS STRUCTURE WILL REPLACE EXISTING STRUCTURE P-22-701, A PREVIOUSLY WIDENED 21FT. WIDE BY 28.5 FT. LONG, 2 SPAN BRIDGE. THE ORIGINAL NORTHERN PORTION IS A STEEL DECK GIRDER SYSTEM EMBEDDED WITH A CONCRETE DECK. THE SOUTHERN PORTION IS A FLAT CONCRETE SLAB. THE BRIDGE IS SUPPORTED ON FULL RETAINING CONCRETE ABUTMENTS AND A CONCRETE PIER. THE WATERWAY HAS A CONCRETE FLOOR LOCATED BELOW THE EAST SPAN. REMOVAL OF THIS CONCRETE FLOOR IS REQUIRED.

(B)-BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

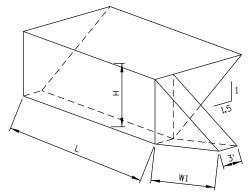
LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR. THE ESTIMATED QUANTITY IS BASED ON THE ABUTMENT BACKFILL DIAGRAM BELOW AND DOES NOT CONSIDER ANY REDUCTION IN BACKFILL VOLUME DUE TO TEMPORARY SHORING.

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

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF SLAB.

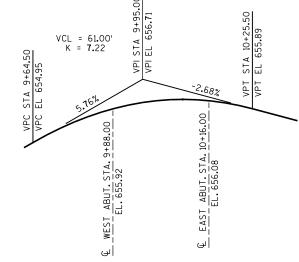
PIGMENTED SURFACE SEALER SHALL BE APPLIED TO ALL FACES OF THE PARAPETS.



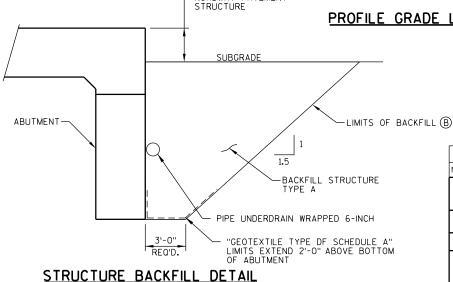
ABUTMENT BACKFILL DIAGRAM

L = OUT-TO-OUT OF ABUTMENT PLUS WING 2 OR 3 LENGTH (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
W1 = WING 1 OR 4 LENGTH (FT) $V_{CF} = (L)(3.0')(H)+(L)(0.5)(1.5H)(H)+(0.5)(H)(W1)(3.0')$

 $V_{TON} = V_{CF}(2.0)/27$



PROFILE GRADE LINE - BREWERY HOLLOW ROAD



-ROADWAY PAVEMENT

NO. DATE REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

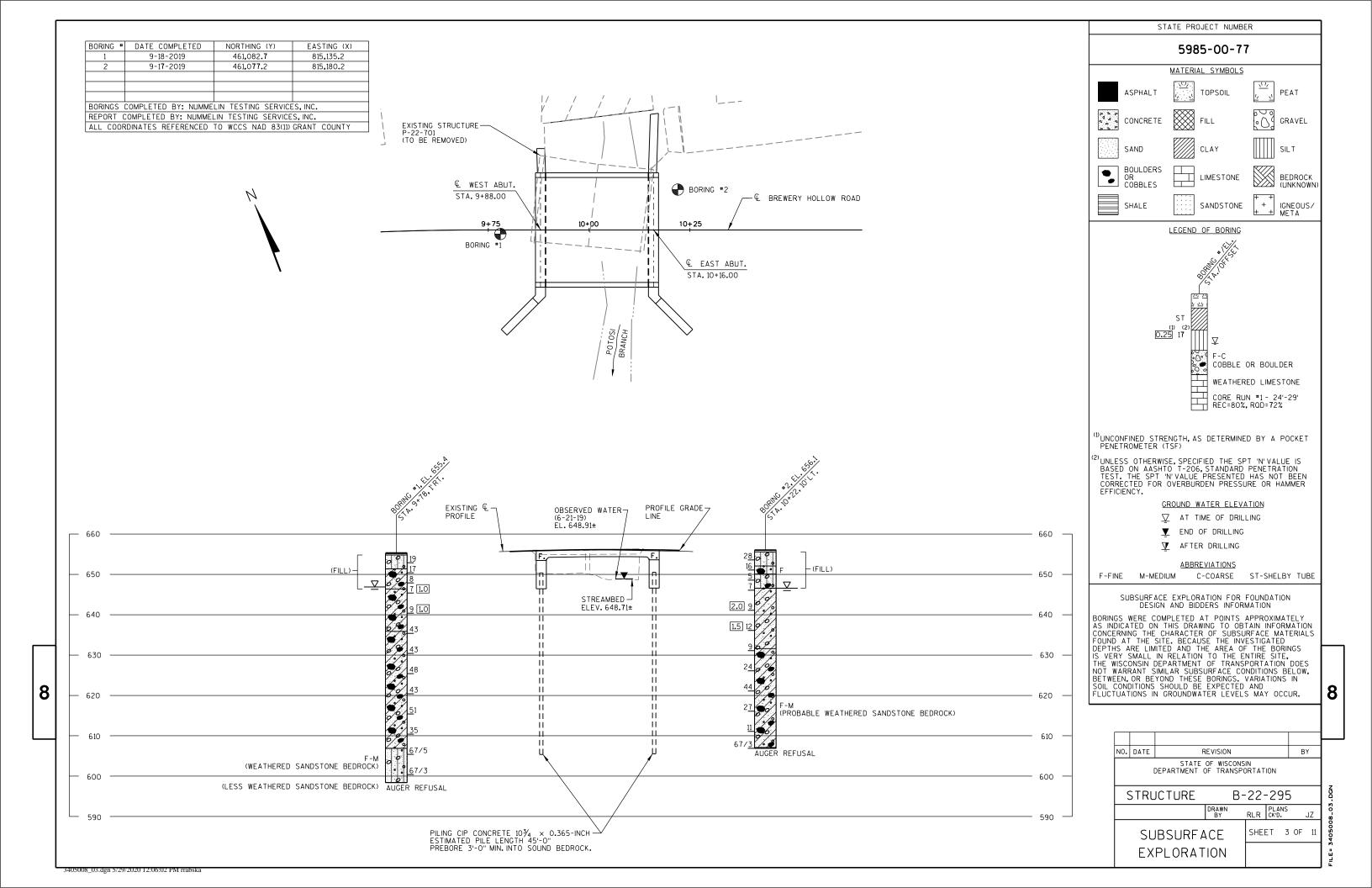
STRUCTURE B-22-295 DRAWN BY RLR SHEET 2 OF

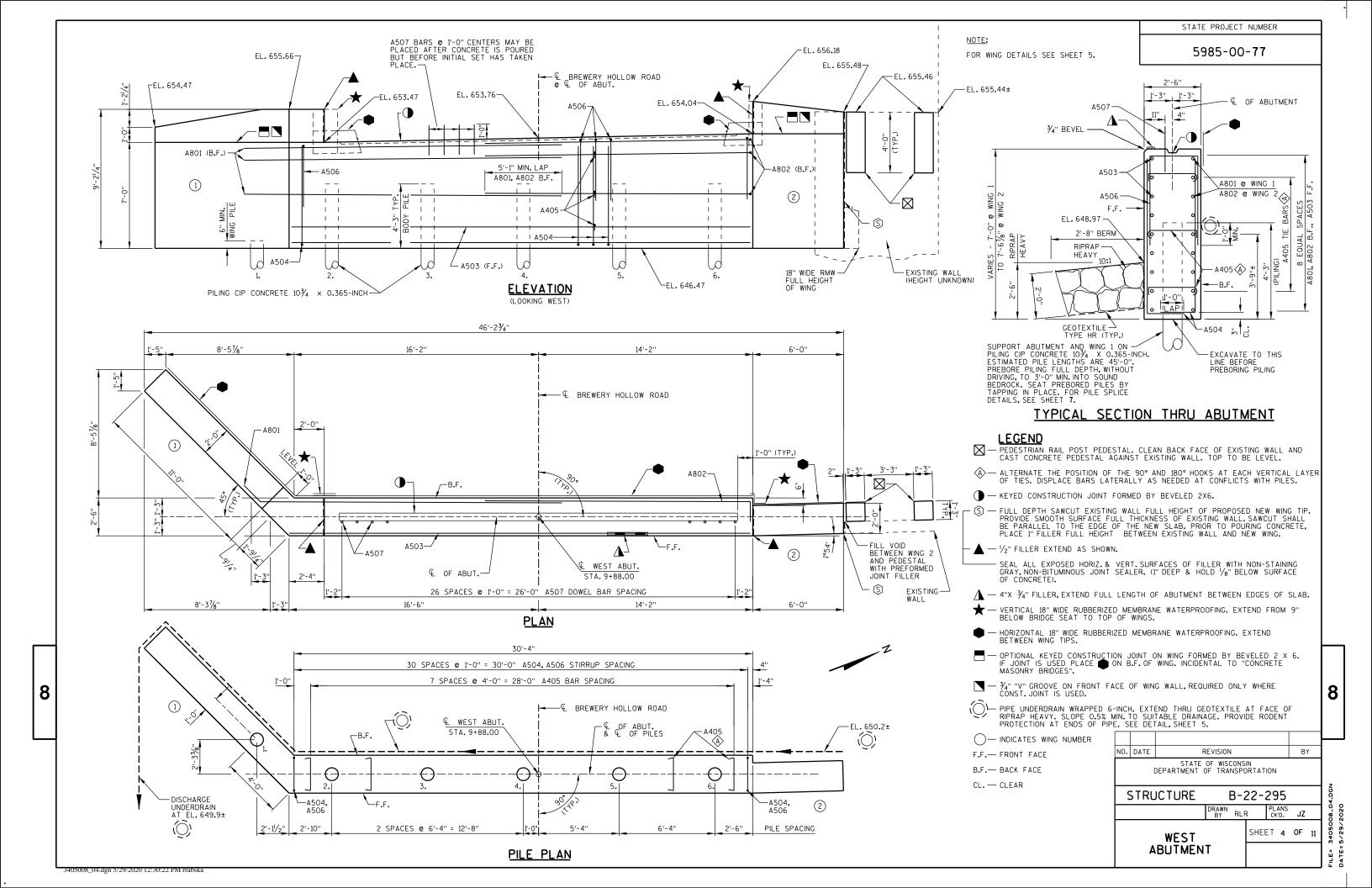
CROSS SECTION, QUANTITIES & NOTES

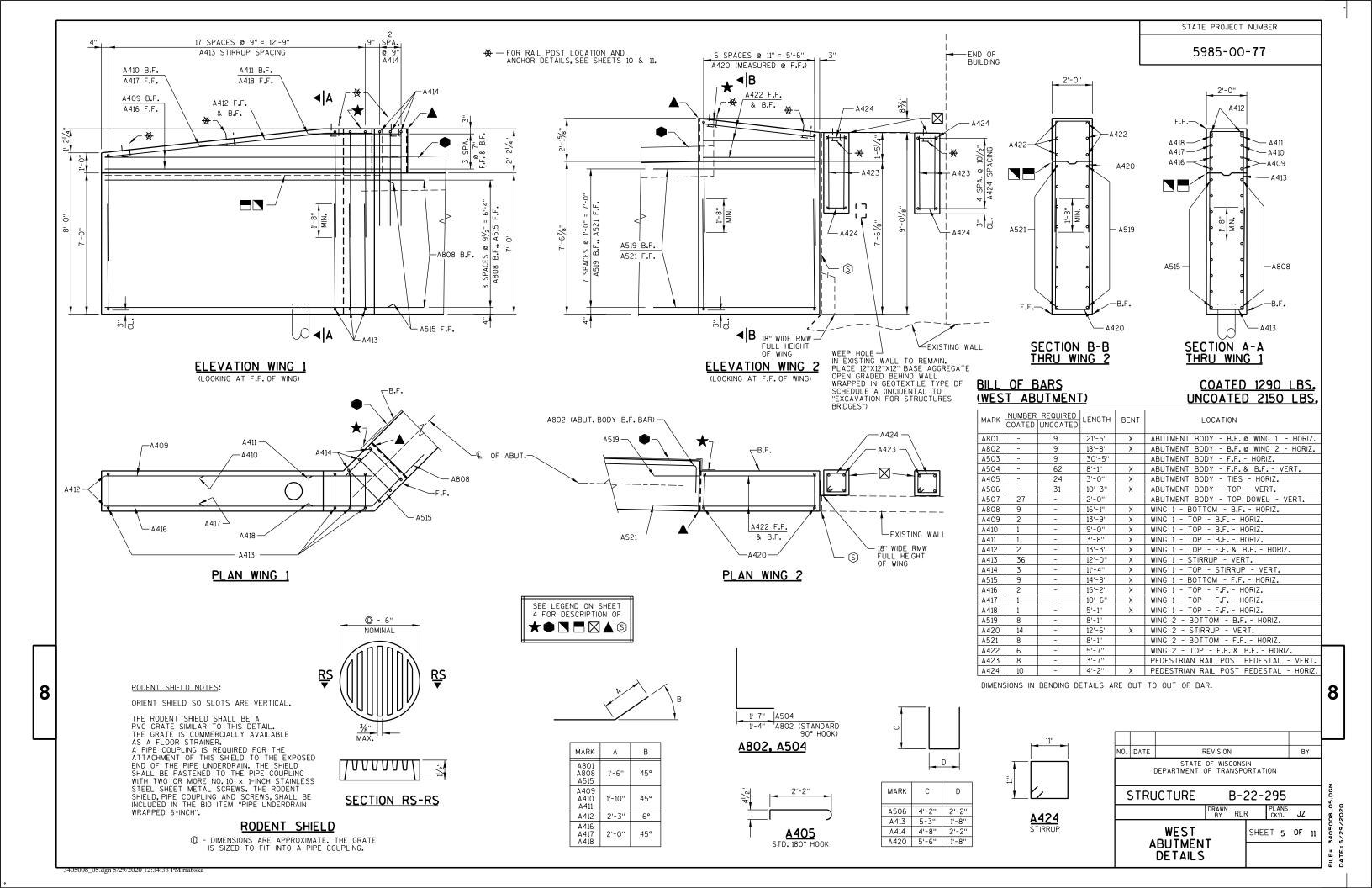
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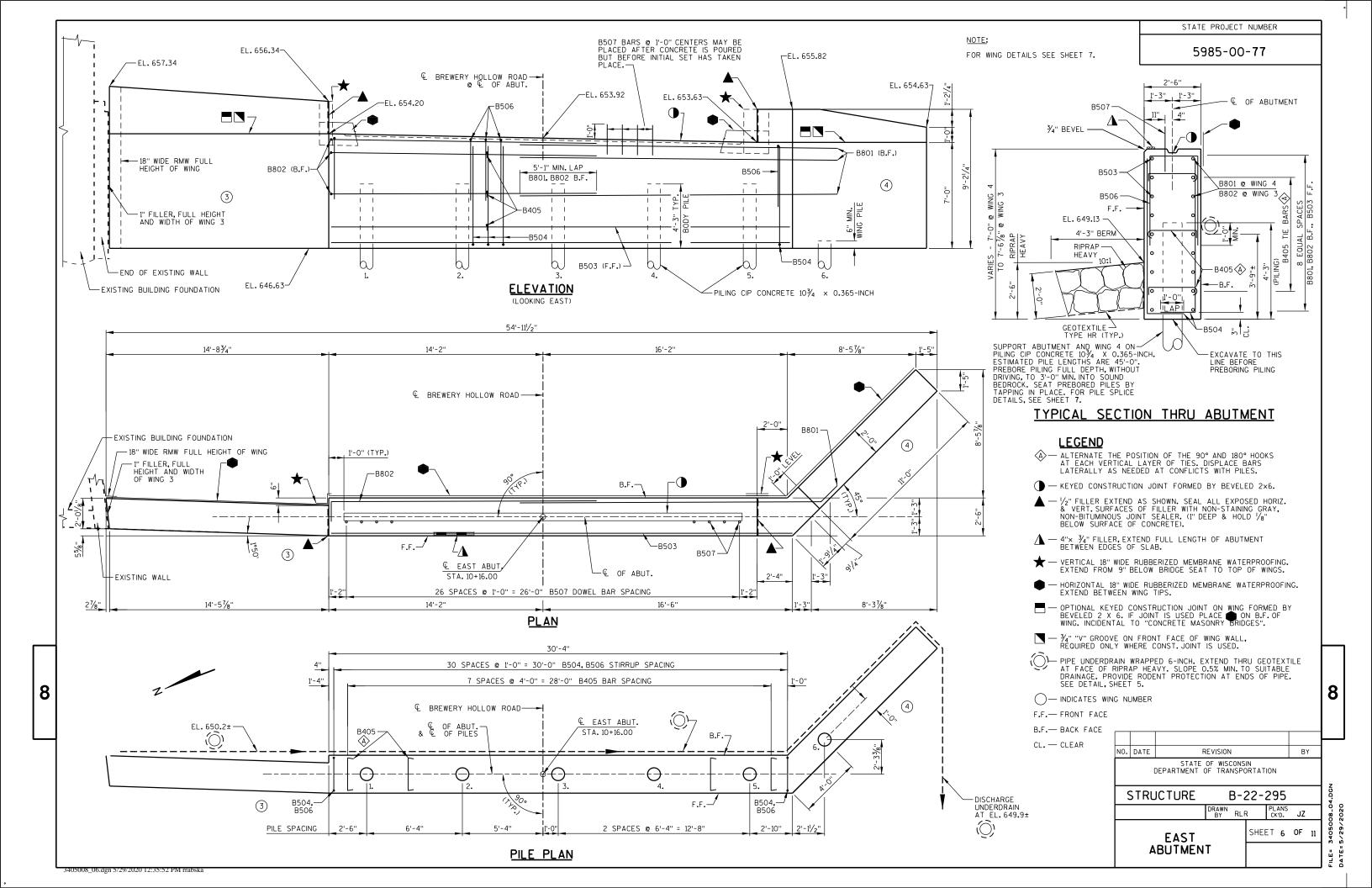
BY

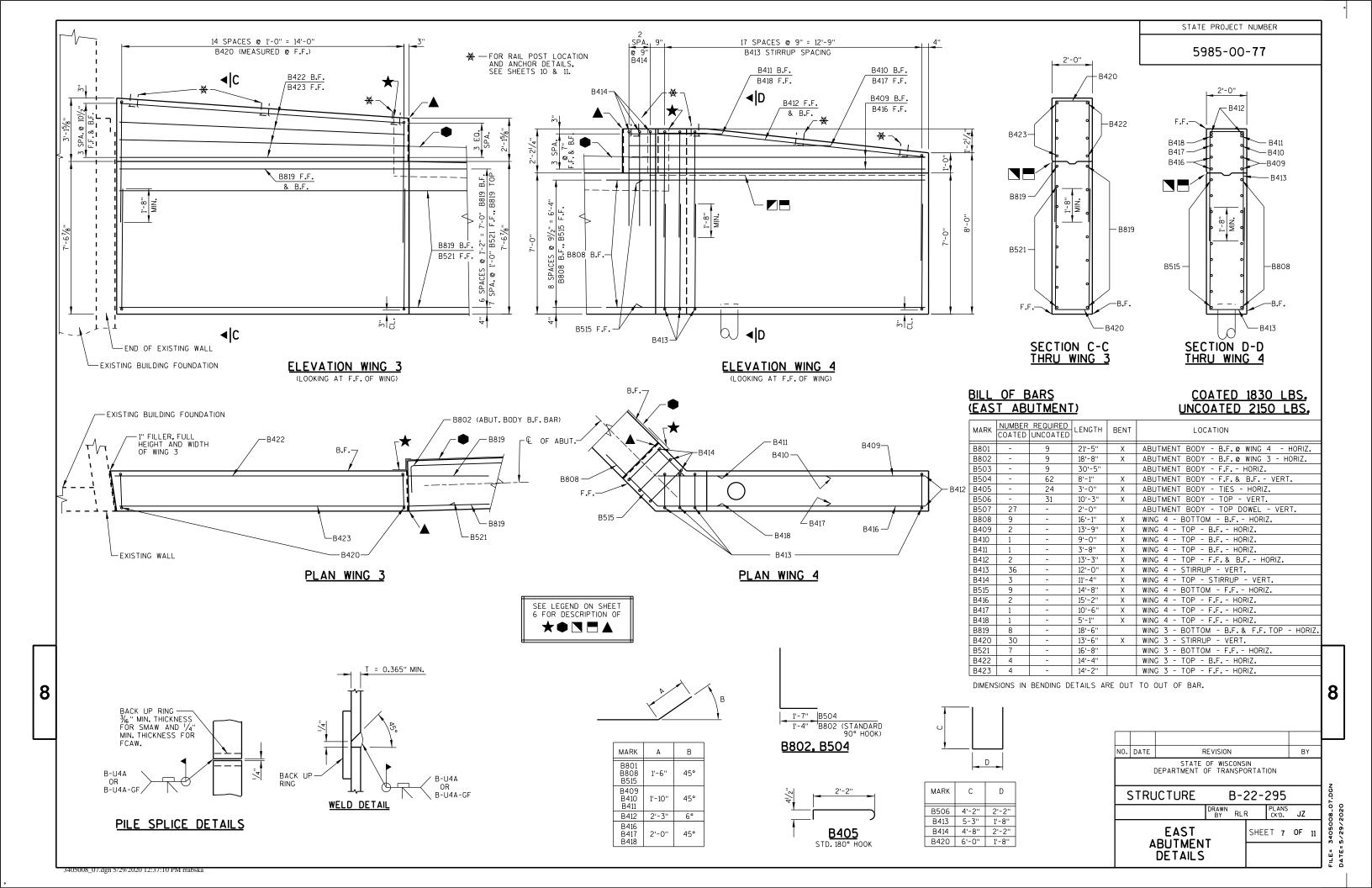
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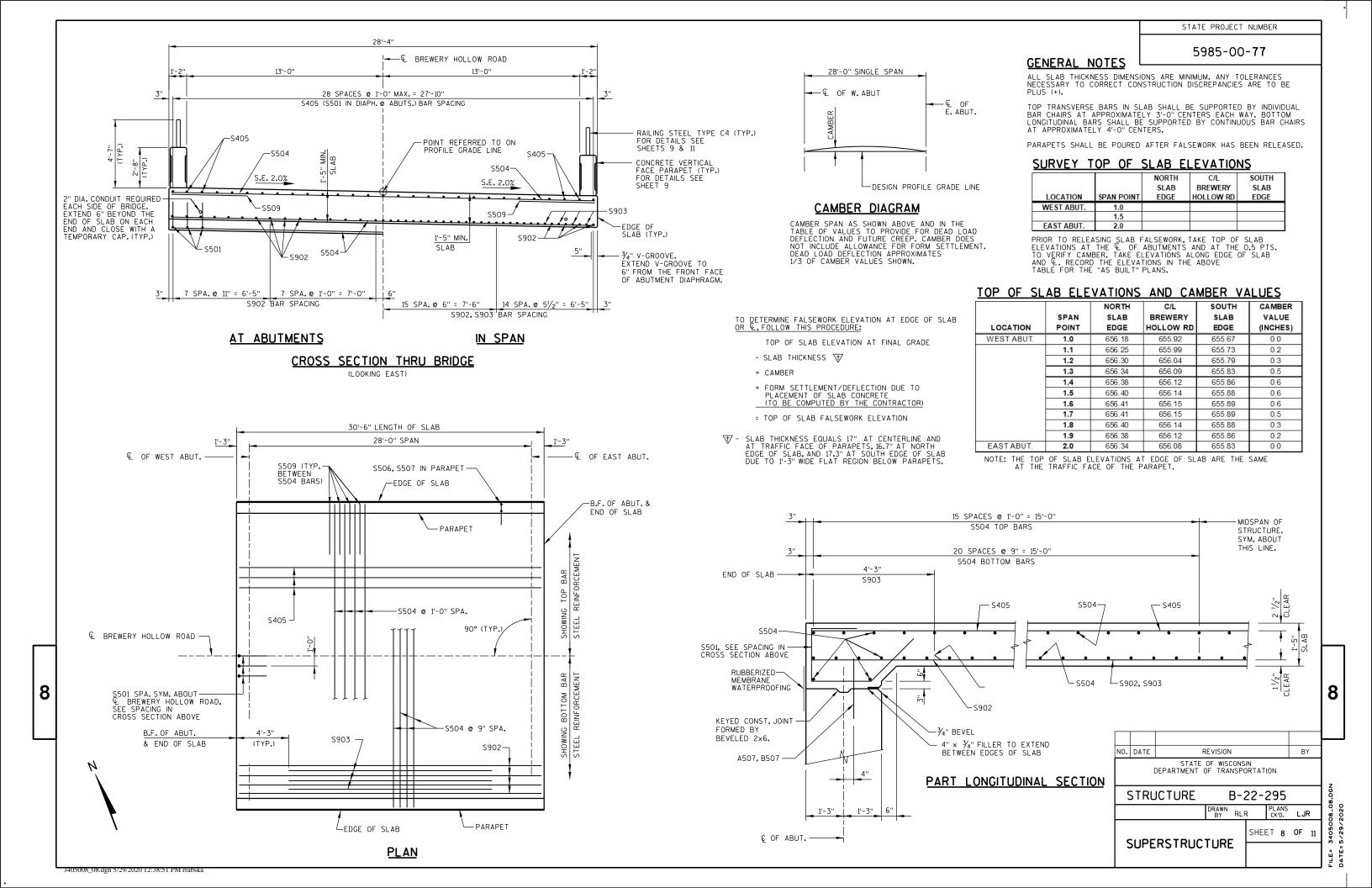


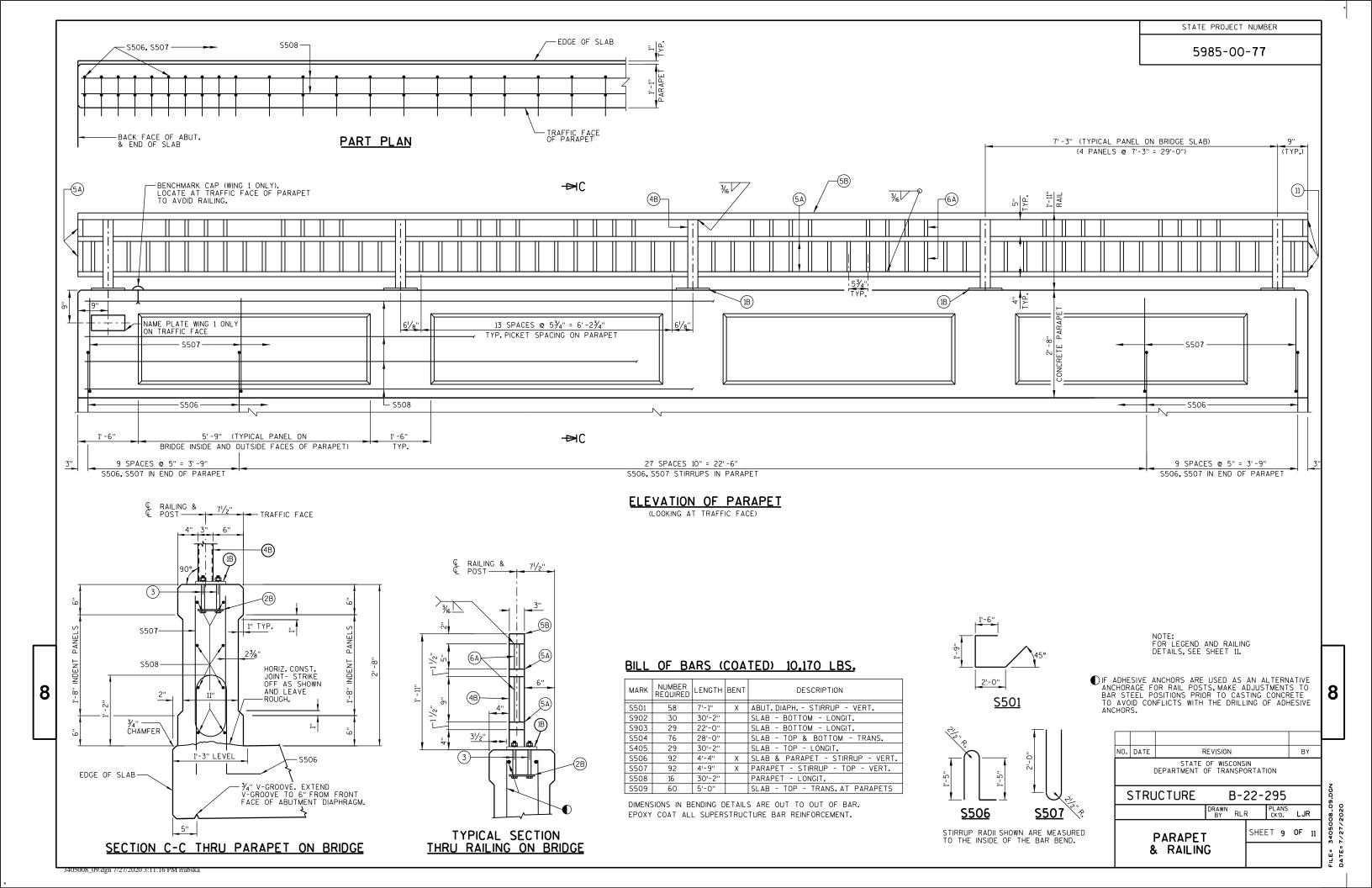


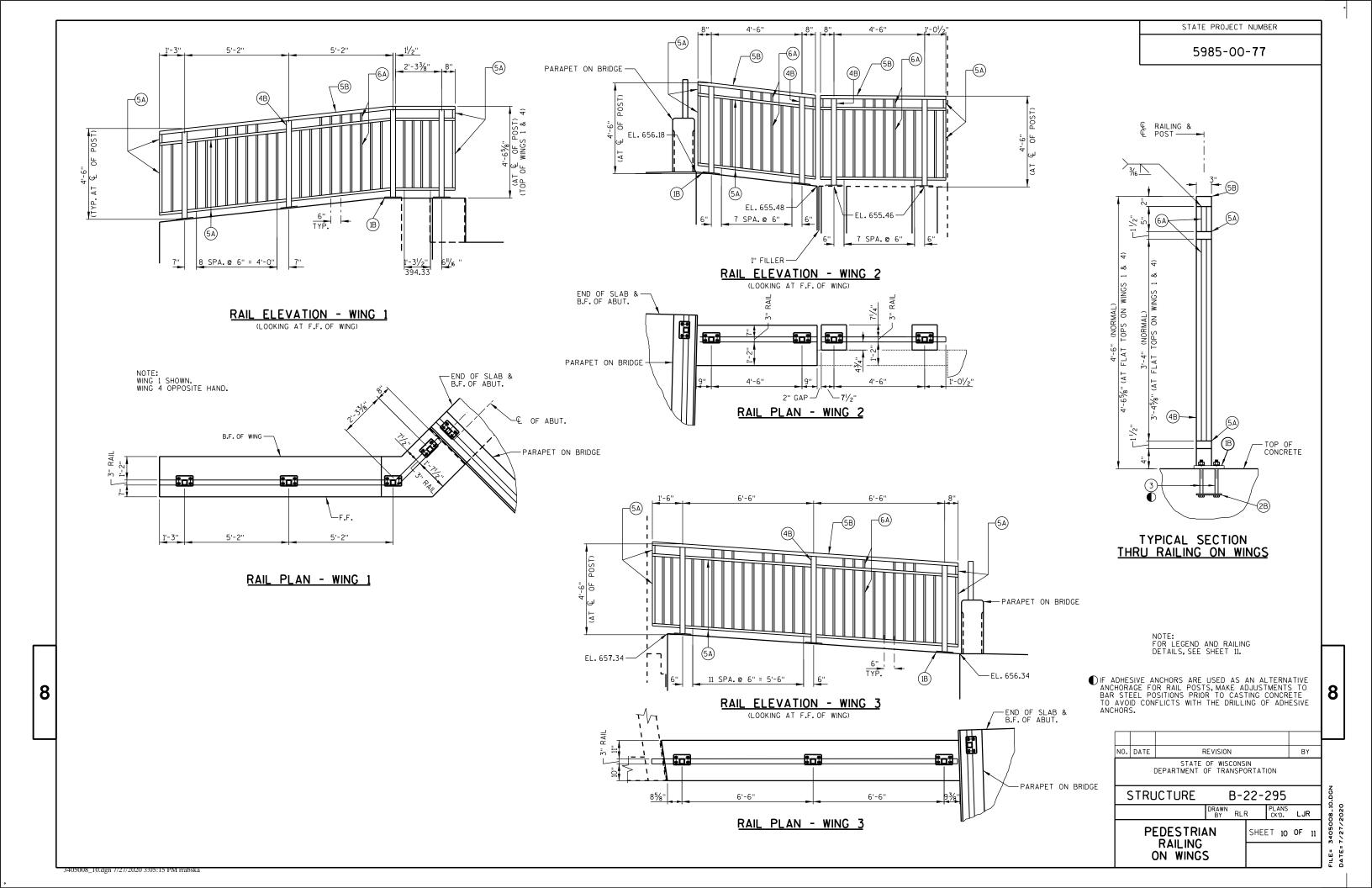


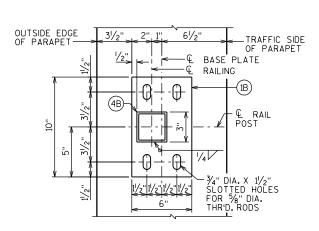












TYPICAL RAIL POST

BASE PLATE ON PARAPET

RAILING &

POST

F.F. OF -WING - B.F. OF WING BASE PLATE RAILING –(1B) (4B) -Œ R POST RAIL -**Q** $-\frac{3}{4}$ " DIA. X $\frac{1}{2}$ " SLOTTED HOLES FOR $\frac{5}{8}$ " DIA. THR'D. RODS 6"

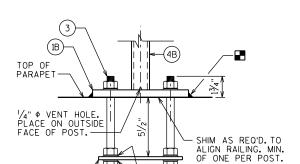
VARIES, SEE

SHEET 10

VARIES, SEE

SHEET 10

TYPICAL RAIL POST BASE PLATE ON WING



ANCHORAGE FOR RAIL POSTS

WHEN ADHESIVE ANCHORS ARE USED

3/8" DIA. X 1/2"
WELDING STUDS

(10A)7

(5A)(5B)-

A₩

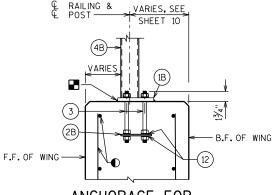
NOTE: ANCHOR PLATE NOT REQUIRED

(4B) (2B) TRAFFIC SIDE OF PARAPET

ANCHORAGE FOR POST ON PARAPET

NOTE: ANCHOR PLATES NOT REQ'D. WHEN

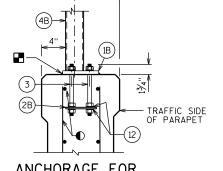
DIF ADHESIVE ANCHORS ARE USED AS AN ALTERNATIVE ANCHORAGE FOR RAIL POSTS, MAKE ADJUSTMENTS TO BAR STEEL POSITIONS PRIOR TO CASTING CONCRETE TO AVOID CONFLICTS WITH THE DRILLING OF ADHESIVE



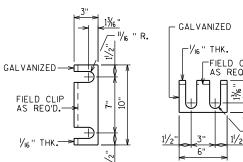
ANCHORAGE FOR RAIL POST ON WING

NOTE: ANCHOR PLATES NOT REQ'D. WHEN ADHESIVE ANCHORS ARE USED.

● IF ADHESIVE ANCHORS ARE USED AS AN ALTERNATIVE ANCHORAGE FOR RAIL POSTS, MAKE ADJUSTMENTS TO BAR STEEL POSITIONS PRIOR TO CASTING CONCRETE TO AVOID CONFLICTS WITH THE DRILLING OF ADHESIVE



ADHESIVE ANCHORS ARE USED.



POST SHIM DETAIL (2 SETS PER POST)



FIELD ERECTION JOINT DETAIL

► SYM. ABOUT €

1/2" AT FIELD

ERECTION JTS.

DIA. SURFACE WELDS

1/6 POST PANEL LENGTH ± 4" (AT FIELD JOINTS)

SECTION A-A

☆ MIN. 5%" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

FIELD CLIP AS REQ'D.

LEGEND

- (1B) PLATE 5%" X 6" X 10" WITH 34" X 11/2" SLOTTED HOLES.
- $(2B)^{1}/_{4}$ " X 5" X 9" ANCHOR PLATE WITH $1/_{16}$ " DIA. HOLES FOR THR'D. RODS NO. 3.
- (3) %" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS %-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.
- (4B) STRUCTURAL TUBING 3" X 3" X $\frac{3}{6}$ ". PLACE VERTICAL. WELD TO NO.1 & 5.
- $\stackrel{\hbox{\scriptsize (5A)}}{\text{\tiny TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.}}$
- $\stackrel{\textstyle \leftarrow}{\mbox{\footnotesize 5B}}$ STRUCTURAL TUBING 3" X 2" X $\stackrel{\textstyle \sim}{\mbox{\footnotesize 4}}$ RAILS. WELD TO NO.1& NO.4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- (9a)RECTANGULAR SLEEVE FABRICATED FROM %6" PLATES. PROVIDE "SLIDING FIT".
- (OA) RECTANGULAR SLEEVE FABRICATED FROM 3/6" PLATES. (1'-4" @ FIELD ERECTION JTS.).
- (11) 36" CLOSURE PLATE, WELD & GRIND SMOOTH.
- (12) PLASTIC WASHERS USED TO SEPARATE STAINLESS STEEL WASHER & GALVANIZED STEEL ANCHOR PLATE.

RAILING NOTES

BID ITEM FOR RAILING ON PARAPETS SHALL BE "RAILING STEEL TYPE C4", WHICH SHALL INCLUDE GALVANIZING, PAINTING, AND ALL STEEL RAILING ITEMS SHOWN ON THIS SHEET AND ON SHEET 9.

BID ITEM FOR RAILING ON WINGWALLS SHALL BE "RAILING STEEL PEDESTRIAN TYPE C4", WHICH SHALL INCLUDE GALVANIZING, PAINTING, AND ALL STEEL RAILING ITEMS SHOWN ON THIS SHEET AND ON SHEET 10.

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

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL

ALL MATERIAL (EXCEPT NO. 3 & 12) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS, PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED BLACK FEDERAL STANDARD COLOR NO. 27038.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 2 OR MORE POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION B-22-295 STRUCTURE DRAWN BY RLR SHEET 11 OF RAILING DETAILS

8

<u>SHOP RAIL</u> SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)

PROJECT I D	5985-00-77	E V B T H W \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	STINANARY

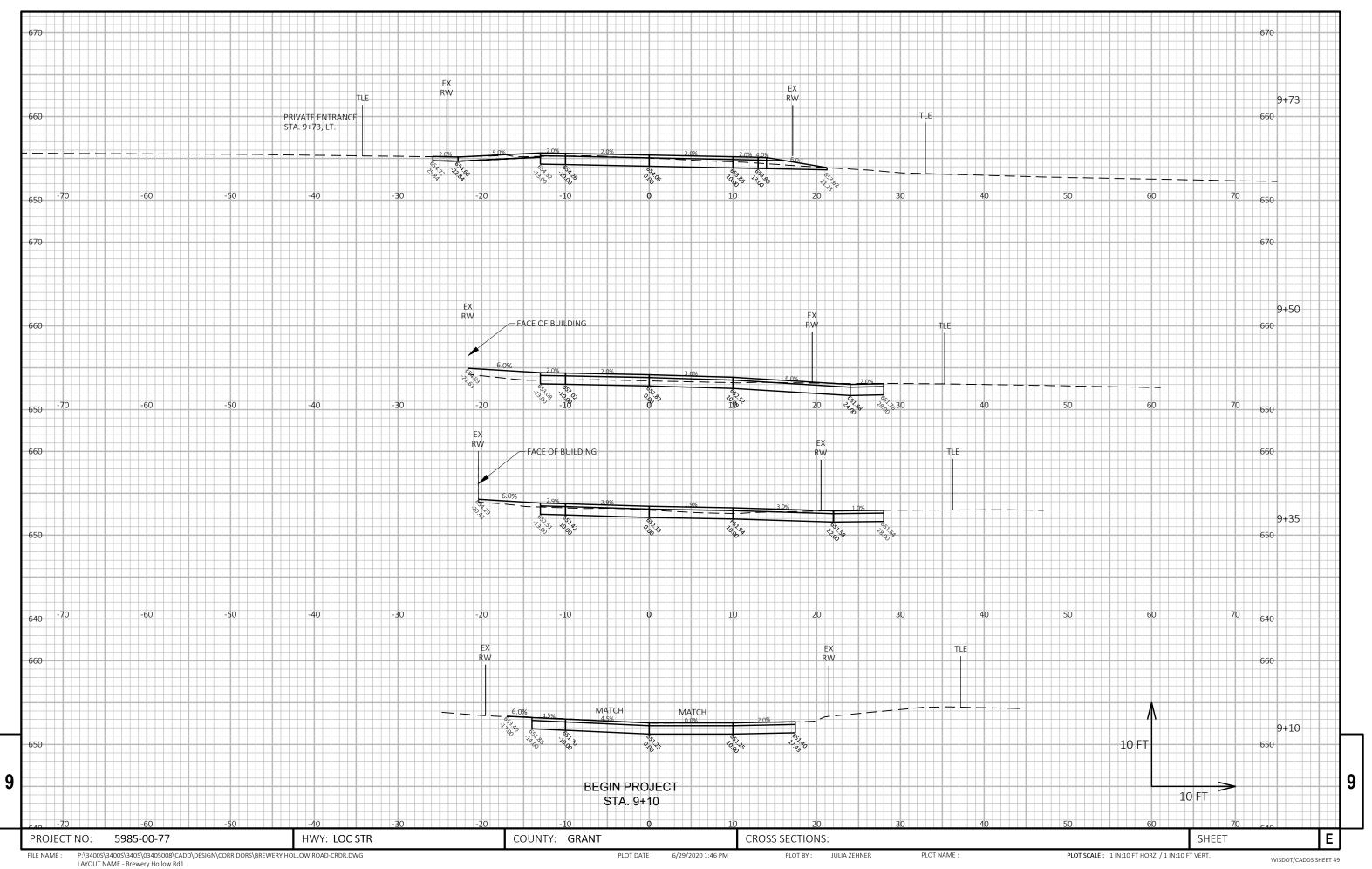
	54.044.4.		5115 1115 55	
	EXCAVATION	FILL (4)	EXPANDED	NA/ACTE
STA	COMMON CY	FILL (1) CY	FILL (2) CY	WASTE CY
9+10.00	Cf	Cf	CY	Cf
9+10.00	38.00	1.00	1.00	37.00
9+35.00	38.00	1.00	1.00	37.00
3133.00	21.00	3.00	4.00	17.00
9+50.00	21.00	3.00	1.00	17.00
	28.00	3.00	4.00	24.00
9+73.00				
	9.00	0.00	0.00	9.00
9+80.00				
	9.00	0.00	0.00	9.00
9+86.75				
STRUCTURE B-22-C	295			
10+17.25				
	17.00	0.00	0.00	17.00
10+35.00				
	27.00	0.00	0.00	27.00
10+60.00				
	32.00	0.00	0.00	32.00
10+85.00	45.00			45.00
40.07.00	15.00	0.00	0.00	15.00
10+97.00	15.00	0.00	0.00	15.00
11+10.00	13.00	0.00	0.00	15.00
SUBTOTALS				
E. APPROACH	105.00	7.00	9.00	96.00
W. APPROACH	106.00	0.00	0.00	106.00
,	100.00	0.00	0.00	100.00
TOTALS	211.00	7.00	9.00	202.00

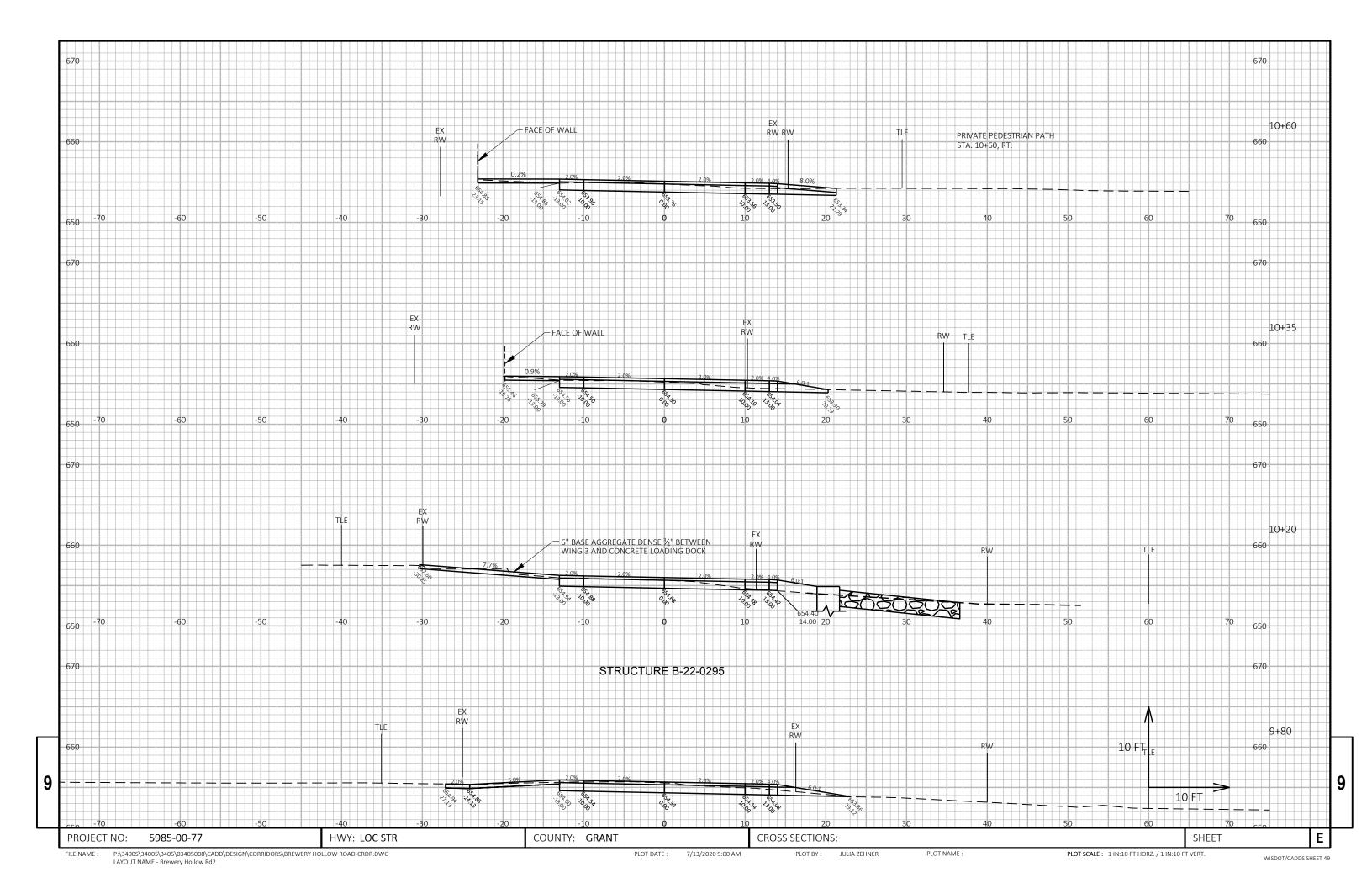
^{(1) -} NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY.

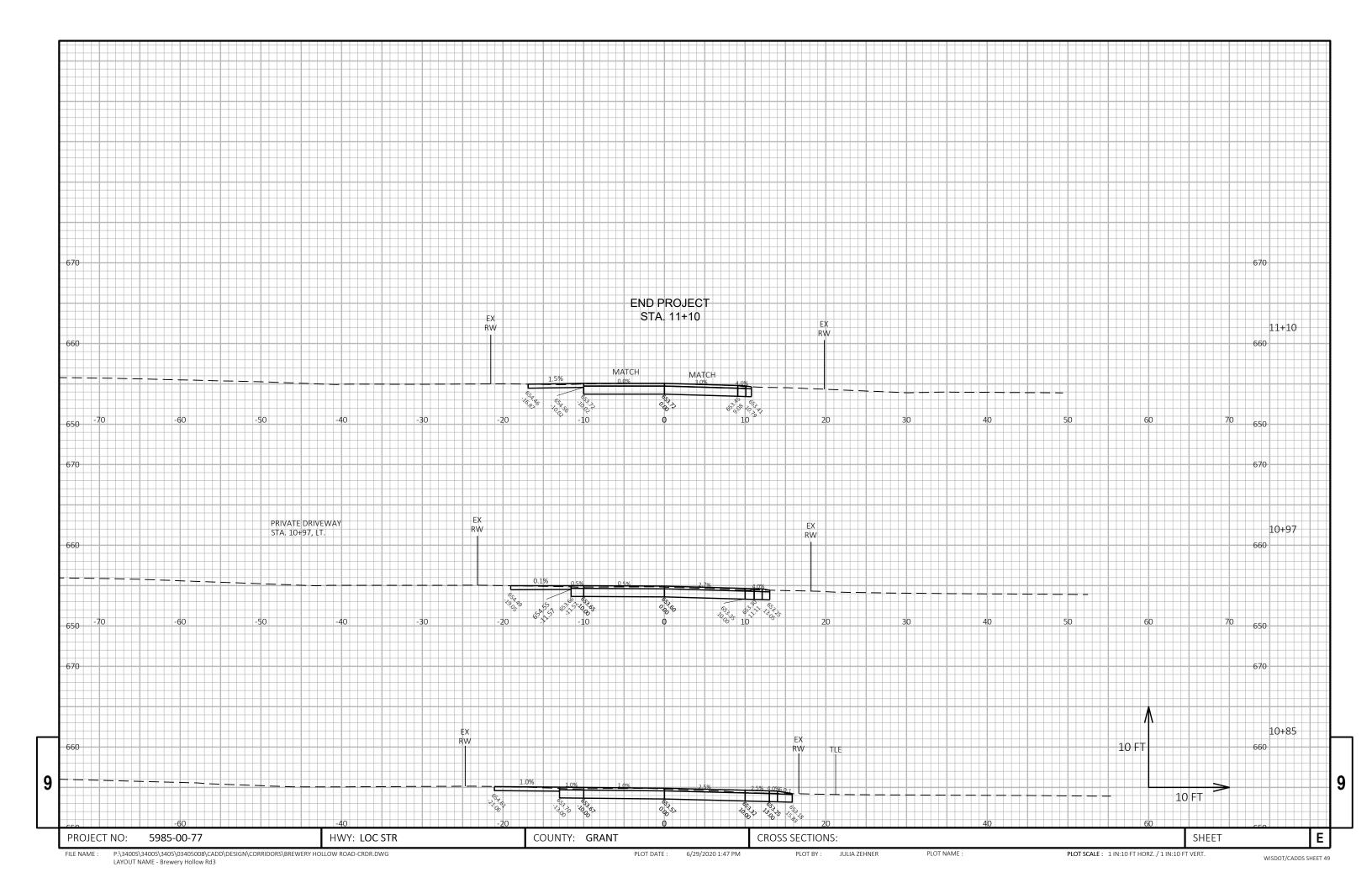
9

Ε HWY: LOC STR COUNTY: GRANT SHEET PROJECT NO: 5985-00-77 EARTHWORK PLOT NAME :

^{(2) -} FILL EXPANSION 30%









Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov