SWL MAR 2017 ORDER OF SHEETS

Section No. 1 Section No. 2 Typical Sections and Details (includes erosion control plans)

Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities

Section No. 5 Plan and Profile

Section No. 6 Standard Detail Drawings

Section No. 8 Structure Plans

Section No. 9 Cross Sections

TOTAL SHEETS = 32

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

TOWN OF TOMAH, HIAWATHA AVENUE

(COUNCIL CREEK BRIDGE, B-41-0302)

TOWN ROAD

MONROE COUNTY

STATE PROJECT NUMBER 5025-00-71

PROJECT LOCATION

DESIGN DESIGNATION

A.A.D.T. (2011) = < 100 A.A.D.T. $(2038) = \langle 100 \rangle$ D.H.V. (2038) = 10= 50/50 D.D. (%) T. (% OF ADT) = 5% = 55 MPH DESIGN SPEED ESALS = N/A

CONVENTIONAL SYMBOLS

CORPORATE LIMITS

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

(Box or Pipe)

MARSH AREA

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

ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES OVERHEAD UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER

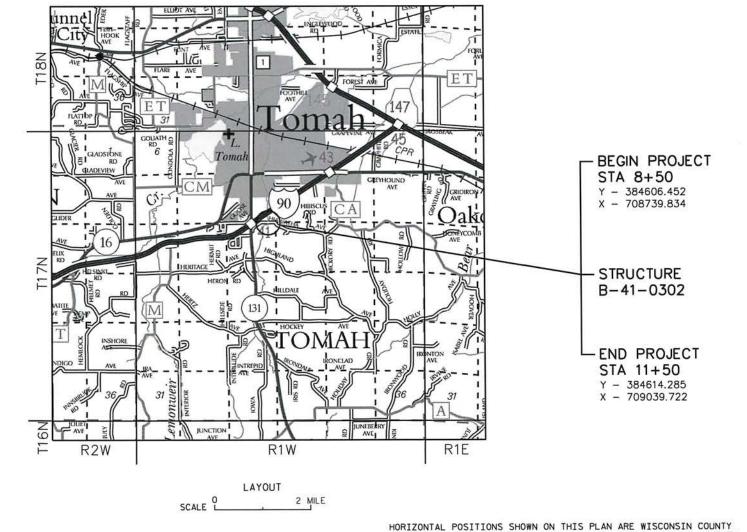
UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

GRADE LINE

ROCK LABEL



COORDINATES, MONROE COUNTY, NAD88 (1991), IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID TOTAL NET LENGTH OF CENTERLINE = 0.057 MILES DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2017097 5025-00-71

MENOMONIE - MADISON - GREEN BAY www.cedarcorp.com 800-472-7372



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

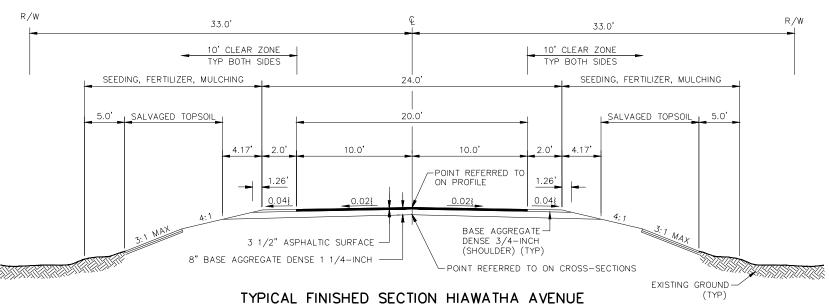
PREPARED BY

CEDAR CORPORATION CEDAR CORPORATION

R/W R/W 33.0' 33.0' 1' - 3.0'9.0'-10.0' 9.0'-10.0' VARIES VARIES VARIES VARIES VAR VAR VARIES 3:1 MAX - 5 ASPHALT - 6" AGGREGATE BASE - 4"-11" ASPHALT - 0"-6" AGGREGATE BASE

EXISTING TYPICAL SECTION HIAWATHA AVENUE

STA 8+50 - STA 11+50



STA 8+50 - STA 9+80.75 STA 10+19.25- STA 11+50

DNR LIAISON

DNR SERVICE CENTER 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 (608) 785-9115 KARÉN KALVELAGE karen.kalvelage@wisconsin.gov

DESIGN CONSULTANT

CEDAR CORPORATION 2820 WALTON COMMONS WEST #142 MADISON, WI 53718 (608) 249-5046 JOSH A WEISS, P.E. josh.weiss@cedarcorp.com

MONROE COUNTY

MONROE CO. HIGHWAY DEPART. 803 WASHINGTON STREET SPARTA, WI 54656 (608) 269-8739 JACK DITTMAR, P.E. jack.dittmar@co.monroe.wi.us

TOWN OF TOMAH

TOMAH TOWN HALL 24381 HERITAGE AVENUE TOMAH. WI 54660 (608) 372-5483 HOWARD L HANSON - CHAIRMAN townoftomah@certurylink.net

UTILITIES

ALLIANT ENERGY 338 EAST STATE STREET MAUSTON, WI 53948 (608) 844-9605 PATRICK MCINTYRE patrickmcintyre@alliantenergy.com

GENERAL NOTES

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

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS, BUT IS MEASURED AND PAID FOR AS EXCAVATION COMMON. THE LOCATION OF EBS WILL BE DETERMINED BY THE ENGINEER.

SHRINKAGE IS ESTIMATED AT 25%.

THE 3 1/2" ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 1 3/4" LOWER LAYER AND A 1 3/4" UPPER LAYER. USE 1/2" NOMINAL AGGREGATE FOR ASPHALT SURFACE

BEARINGS REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MONROE COUNTY.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE FERTILIZED AND SEEDED AS DIRECTED BY THE ENGINEER.

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

THE BENCHMARK IS REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MONROE COUNTY.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. DO NOT OPERATE EQUIPMENT OUTSIDE THE SLOPE INTERCEPTS.

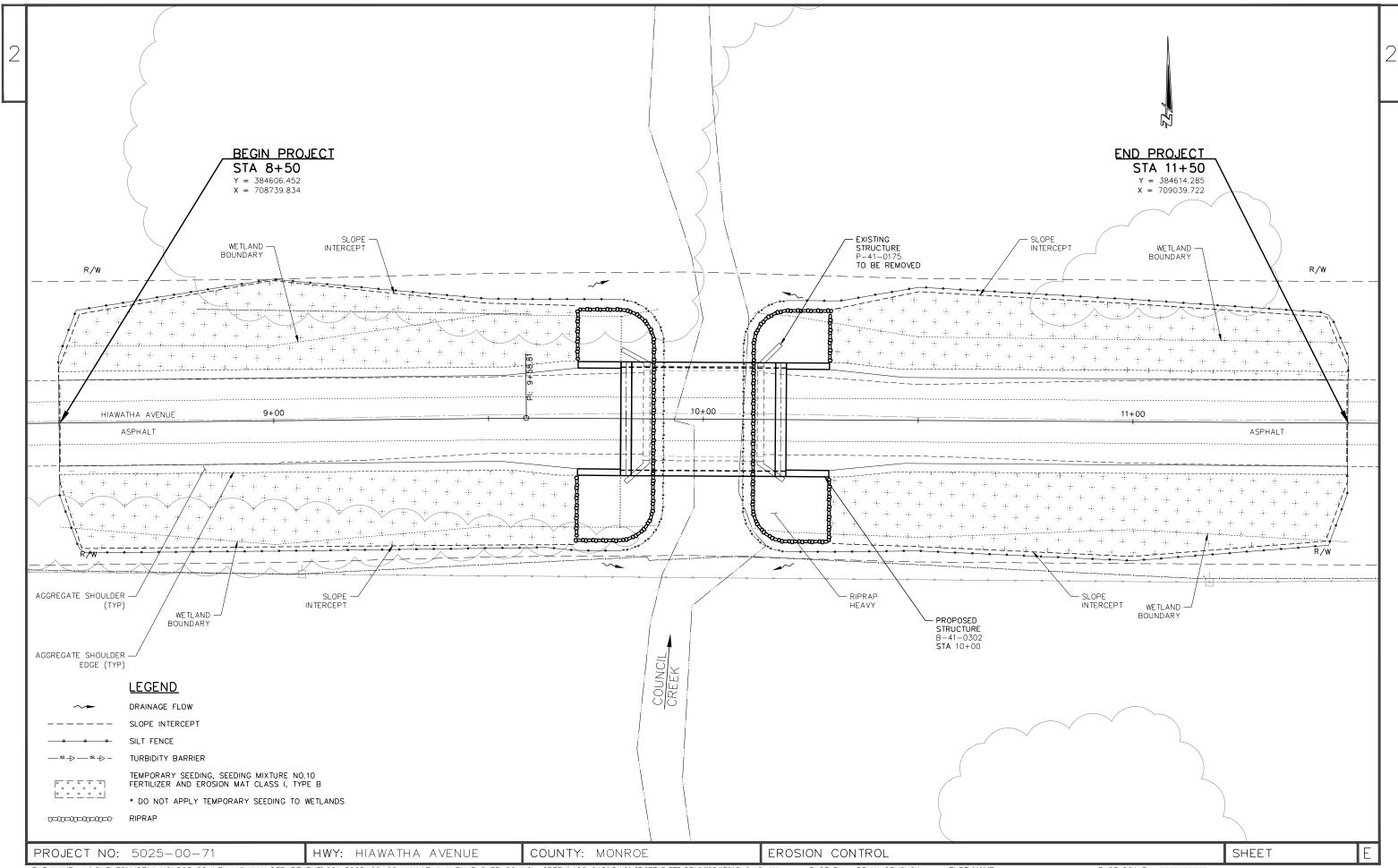
STANDARD ABBREVIATIONS

ABUT	ABUTMENT	OFF	OFFSET
AGG	AGGREGATE	PC	POINT OF CURVATURE
ET AL	AND OTHERS	PI	POINT OF INTERSECTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC	PT	POINT OF TANGENCY
3F	BACK FACE	POL	POINT ON LINE
3M	BENCHMARK	PE	PRIVATE ENTRANCE
C/L OR Q	CENTERLINE	PL	PROPERTY LINE
Δ΄ –	CENTRAL ANGLE OR DELTA	PSI	POUNDS/SQUARE INCH
CLR	CLEAR	PROP	PROPOSED
CONC	CONCRETE	R	RADIUS
CONST	CONSTRUCTION	RR	RAILROAD
COR	CORNER	REBAR	REINFORCEMENT BAR
CMP	CORRUGATED METAL PIPE	REQ'D	REQUIRED
CTH	COUNTY TRUNK HIGHWAY	RT	RIGHT
CR	CREEK	RHF	RIGHT-HAND FORWARD
CFS	CUBIC FEET/SECOND	R/W	RIGHT-OF-WAY
CULV	CULVERT	RĎ	ROAD
)	DEGREE OF CURVE	SEC	SECTION
DHV	DESIGN HOUR VOLUME	S	SOUTH
DIA	DIAMETER	SE	SOUTHEAST
Ξ	EAST	SW	SOUTHWEST
E EL	ELEVATION	STH	STATE TRUNK HIGHWAY
EST	ESTIMATED	STA	STATION
FPS	FEET PER SECOND	SE	SUPER ELEVATION
FΕ	FIELD ENTRANCE	T	TANGENT
-T	FOOT (FEET)	TEL	TELEPHONE
FTG	FOOTING	TEMP	TEMPORARY
-DN	FOUNDATION	TI	TEMPORARY INTEREST
F	FRONT FACE	TLE	TEMPORARY LIMITED EASEMENT
P	IRON PIN		TRANSIT LINE
_T	LEFT	T	TRUCKS
_HF	LEFT-HAND FORWARD	TYP	TYPICAL
_	LENGTH OF CURVE	U/G	UNDERGROUND
- _F	LINEAR FOOT	USH	UNITED STATES HIGHWAY
VAX	MAXUMUM	VAR	VARIABLE
ΜI	MILE	V	VELOCITY
MIN	MINIMUM	VPC	VERTICAL POINT OF CURVATURE
ИC	NORMAL CROWN	VPI	VERTICAL POINT OF INTERSECTION
N	NORTH	VPT	VERTICAL POINT OF TANGENCY
ΝE	NORTHEAST	W	WEST
٧W	NORTHWEST	YD	YARD
VO	NUMBER		



** DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

PROJECT NO: 5025-00-71 HWY: HIAWATHA AVENUE COUNTY: MONROE TYPICAL SECTIONS SHEET



					5025-00-71
Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	1.500	1.500
0020	201.0205	Grubbing	STA	1.500	1.500
0030		Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+00	LS	1.000	1.000
0040	205.0100	Excavation Common	CY	306.000	306.000
0050	206.1000	Excavation for Structures Bridges (structure) 01. B-41-0302	LS	1.000	1.000
0060	208.0100	Borrow	CY	1,072.000	1,072.000
0070	210.1500	Backfill Structure Type A	TON	330.000	330.000
0800	213.0100	Finishing Roadway (project) 01. 5025-00-71	EACH	1.000	1.000
0090	305.0110	Base Aggregate Dense 3/4-Inch	TON	30.000	30.000
0100	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	379.000	379.000
0110	465.0105	Asphaltic Surface	TON	112.000	112.000
0120	502.0100	Concrete Masonry Bridges	CY	135.000	135.000
0130	502.3200	Protective Surface Treatment	SY	135.000	135.000
0140	505.0400	Bar Steel Reinforcement HS Structures	LB	3,100.000	3,100.000
0150	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15,260.000	15,260.000
0160	513.4061	Railing Tubular Type M (structure) 01. B-41-0302	LF	117.000	117.000
0170	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000
0180	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	200.000	200.000
0190	606.0300	Riprap Heavy	CY	110.000	110.000
0200	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000
0210	619.1000	Mobilization	EACH	1.000	1.000
0220	624.0100	Water	MGAL	6.800	6.800
0230	625.0500	Salvaged Topsoil **P**	SY	889.000	889.000
0230	628.1504	Silt Fence	LF	590.000	590.000
0250	628.1520	Silt Fence Maintenance	LF	790.000	790.000
0260	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0200	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
			SY		
0280	628.2004	Erosion Mat Class I Type B		889.000	889.000
0290	628.6005	Turbidity Barriers	SY	142.000	142.000
0300	629.0210	Fertilizer Type B **P**	CWT	0.570	0.570
0310	630.0110	Seeding Mixture No. 10 **P**	LB	12.000	12.000
0320	630.0200	Seeding Temporary **P**	LB	19.000	19.000
0330	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0340	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0350	638.2602	Removing Signs Type II	EACH	4.000	4.000
0360	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0370	642.5001	Field Office Type B	EACH	1.000	1.000
0380	643.0100	Traffic Control (project) 01. 5025-00-71	EACH	1.000	1.000

Page 2

Estimate Of Quantities

					5025-00-71
Line	Item	Item Description	Unit	Total	Qty
0390	643.0420	Traffic Control Barricades Type III	DAY	1,530.000	1,530.000
0400	643.0705	Traffic Control Warning Lights Type A	DAY	2,040.000	2,040.000
0410	643.0900	Traffic Control Signs	DAY	1,190.000	1,190.000
0420	645.0120	Geotextile Type HR	SY	220.000	220.000
0430	650.4500	Construction Staking Subgrade	LF	261.000	261.000
0440	650.5000	Construction Staking Base	LF	261.000	261.000
0450	650.6500	Construction Staking Structure Layout (structure) 01. B-41-0302	LS	1.000	1.000
0460	650.9910	Construction Staking Supplemental Control (project) 01. 5025-00-71	LS	1.000	1.000
0470	650.9920	Construction Staking Slope Stakes	LF	261.000	261.000
0480	690.0150	Sawing Asphalt	LF	40.000	40.000
0490	715.0502	Incentive Strength Concrete Structures	DOL	810.000	810.000
0500	SPV.0085	Special 01. Fiber Reinforcement for Concrete Masonry Bridges	LB	105.000	105.000

CLEARING & GRUBBING

STATION - STATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
8+50 - 10+00	1.5	1.5
ITEM TOTALS	1.5	1.5

BASE AGGREGATE DENSE

	STATION - STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON
	8+50 - 9+80 10+19 - 11+50		15 15	189 190
=	ITEM TOTAL		30	379

FINISHING ROADWAY

 PROJECT	LOCATION	213.0100 EACH
5025-00-71	HIAWATHA AVE	1
ITEM TOTAL		1

DIVISION	STATIONING	LOCATION	205.0100 COMMON EXCAVATION (CY)	SALVAGED / UNUSABLE PAVEMENT MATERIAL (1)	AVAILABLE MATERIAL (CY) (2)	UNEXPANDED FILL	EXPANDED FILL	MASS ORDINATE +/- (3)	208.0100 BORROW (CY)
			сит				FACTOR 1.30		
1	8+50 - 9+80	WEST APPROACH	152	152	0	347	451	-451	451
	UNDISTRIBUTED (4)		0	0	0	65	85	-85	85
DIVISION 1 SUBTOTAL	-		152	152	0	412	536	-536	536
2	10+19 - 11+50	EAST APPROACH	154	154	0	347	451	-451	451
	UNDISTRIBUTED (4)		0	0	0	65	85	-85	85
DIVISION 2 SUBTOTAL	-		154	154	0	412	536	-536	536
GRAND TOTAL			306	306	0	825	1072	-1072	1072
		TOTAL COMMON EXCAVATION =	306						1072

¹⁾ SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

NOTE: TABLE QUANTITIES ARE CATEGORY OO10 UNLESS OTHERWISE NOTED

PROJECT NO:5025-00-71 HWY:HIAWATHA AVENUE COUNTY:MONROE MISCELLANEOUS QUANTITIES SHEET **E**

²⁾ AVAILABLE MATERIAL = CUT MINUS THE SALVAGED/UNUSABLE PAVEMENT MATERIAL

³⁾ THE MASS ORDINATE = A + OR - QUANTITY CALCULATED FOR THE DIVISON. A POSITIVE QUANTITY INDICATES AN EXCESS OF MATERIAL.

⁴⁾ UNDISTIRBUTED BORROW TO BE USED FOR ROAD SUBGRADE IF SECOND EXISTING ASPHALT LAYER IS PRESENT

2	
J	

ASPHALTIC SURFACE

STATION	LOCATION	465.0105 TON
8-50 - 9+80 10-19 - 11+50		56 56
ITEM TOTAL		112

EROSION CONTROL ITEMS

		628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.6005 TURBIDITY BARRIER	628.2004 EROSION MAT CLASS I TYPE B
STATION	LOCATION	LF	LF	SY	SY
8+50 - 9+80 10+19 - 11+50	RT/LT RT/LT	295 295			449 440
UNDISTIBUTED			790	142	_
ITEM TOTAL		590	790	142	889

<u>WATER</u>

STATION - STATION	LOCATION	624.0100 MGAL
8+50 - 11+50	HIAWATHA AVE	6.8
ITEM TOTAL		6.8

MOBILIZATIONS EROSION CONTROL

STATION - STATION	628.1905 EROSION CONTROL EACH	628.1910 EMERGENCY EROSION CONTROL EACH
PROJECT 5025-00-71	1	3
ITEM TOTAL	1	3

SALVAGED TOPSOIL, FERTILIZER, AND SEEDING

			630.0110				
		625.0500	629.0210	SEEDING	603.0200		
		SALVAGED	FERTILIZER	MIXTURE	SEEDING		
		TOPSOIL	TYPE B	NO. 10	TEMPORARY		
		SY	CWT	LB	LB		
STATION - STATION	LOCATION	**P**	**P**	**P**	**P**		
8+50 - 9+80	RT/LT	449	0.28	6	8		
10+19 - 11+50	RT/LT	440	0.28	6	11		
UNDISTRIBUTED		_	_				
ITEM TOTAL		889	0.57	12	19		

P Pay Plan Quantity

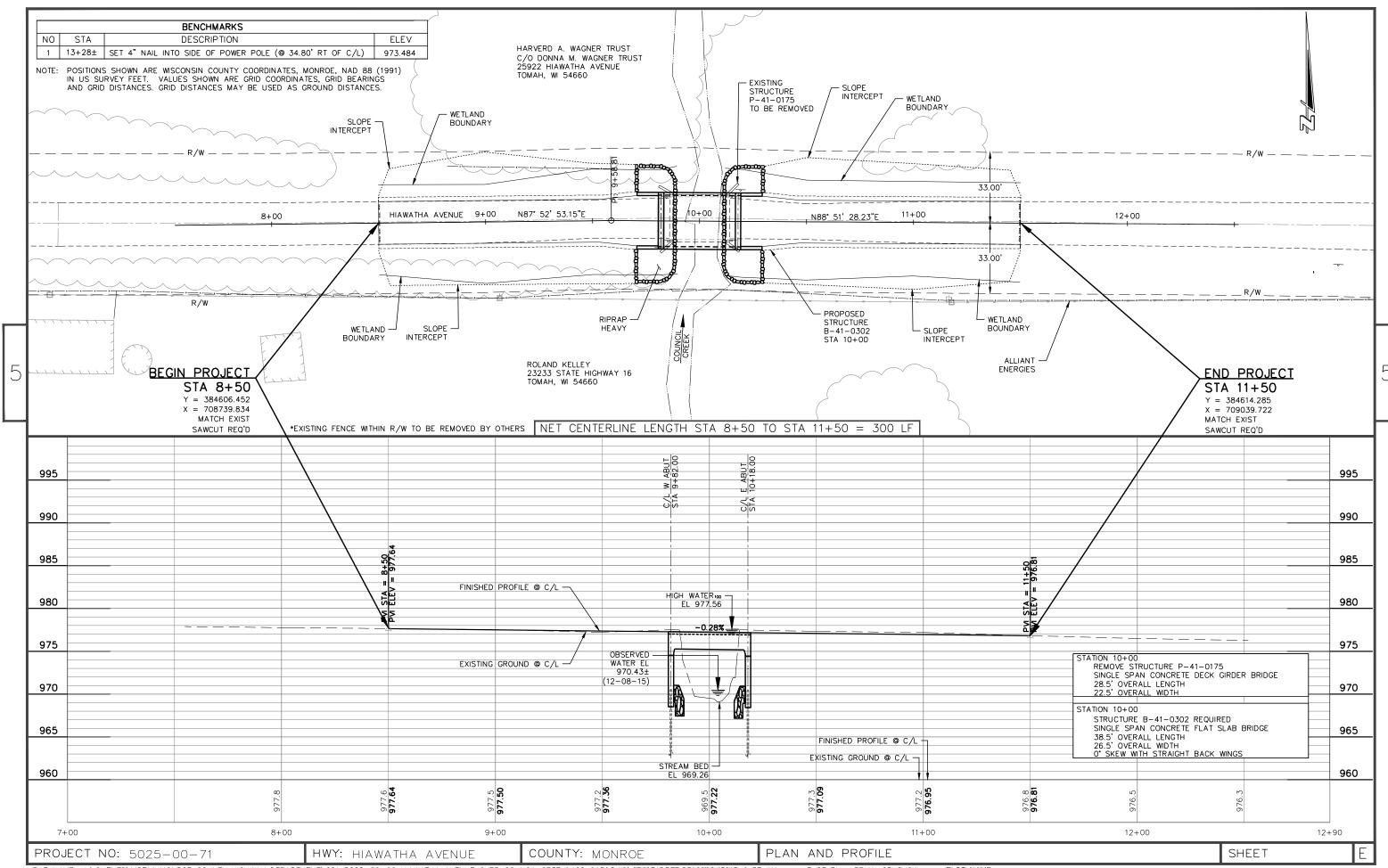
SIGNING QUANTITIES

LOCATION	SIGN CODE	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
NIM PRIDGE CORNER	\A/E_EQ.	2	4	4	4	_
NW BRIDGE CORNER	W5-52 L	3	1	1	1	
SW BRIDGE CORNER	W5-52 R	3	1	1	1	
NE BRIDGE CORNER	W5-52 R	3	1	1	1	
SE BRIDGE CORNER	W5-52 L	3	1	1	1	
ITEM TOTAL		12	4	4	4	

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO:5025-00-71 HWY:HIAWATHA AVENUE COUNTY:MONROE MISCELLANEOUS QUANTITIES SHEET **E**

TRAFFIC CONTROL 643.0705 WARNING 643.0100 643.0420 TRAFFIC CONTROL BARRICADES LIGHTS 643.0900 5025-00-71 TYPE III TYPE A SIGNS STATION - STATION LOCATION EACH DAYS DAYS DAYS HIAWATHA AVE 1530 2040 1190 ITEM TOTAL 1530 2040 1190 **CONSTRUCTION STAKING SAWING** 650.6500* 650.4500 650.5000 STRUCTURE LAYOUT 650.9920 690.0150 SUBGRADE BASE (B-41-0302) SLOPE STAKES ASPHALT STATION - STATION LF LF EACH LF STATION LOCATION LF 8+50 - 11+50 261 261 261 8+50 **BEGIN PROJECT** 20 11+50 **END PROJECT** 20 ITEM TOTAL 261 261 261 ITEM TOTAL 40 *CATEGORY 0020 NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED HWY: HIAWATHA AVENUE MISCELLANEOUS QUANTITIES Ε PROJECT NO:5025-00-71 COUNTY: MONROE SHEET PLOT NAME : PLOT BY: BRIAN GENSKOW



Standard Detail Drawing List

08E09-06 SILT FENCE
08E11-02 TURBIDITY BARRIER
12A03-10 NAME PLATE (STRUCTURES)
15C02-06A BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B BARRICADES AND SIGNS FOR MAINLINE CLOSURES

6

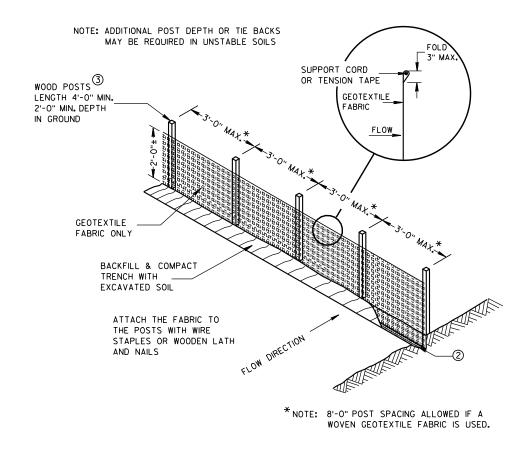
TYPICAL APPLICATION OF SILT FENCE

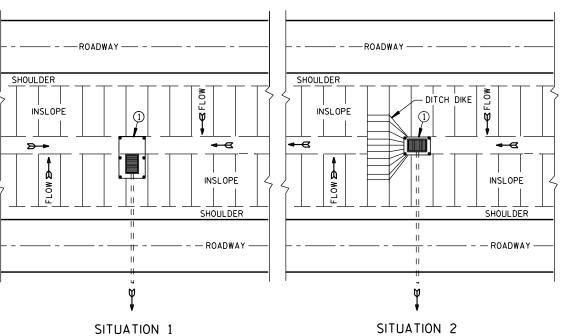
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b

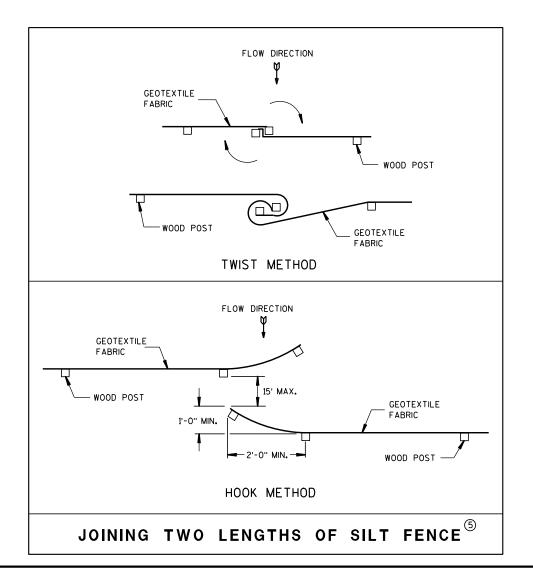
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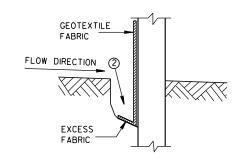
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



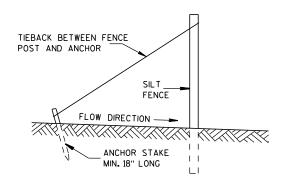
GENERAL NOTES

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

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

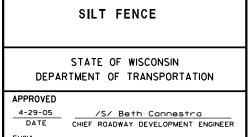


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

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GENERAL NOTES

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



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 SUPPORTS.

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

2

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

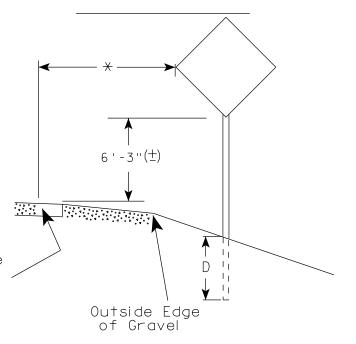
/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

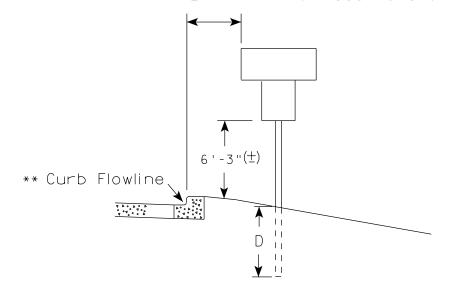
URBAN ARFA

2' Min - 4' Max (See Note 6) 7'-3"(士) ** Curb Flowline. White Edgeline Location

RURAL AREA (See Note 2)



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



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

White Edgeline Location

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

HWY:

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.

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

PLOT DATE: 12-NOV-2014 14:03

GENERAL NOTES

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

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 11/12/14

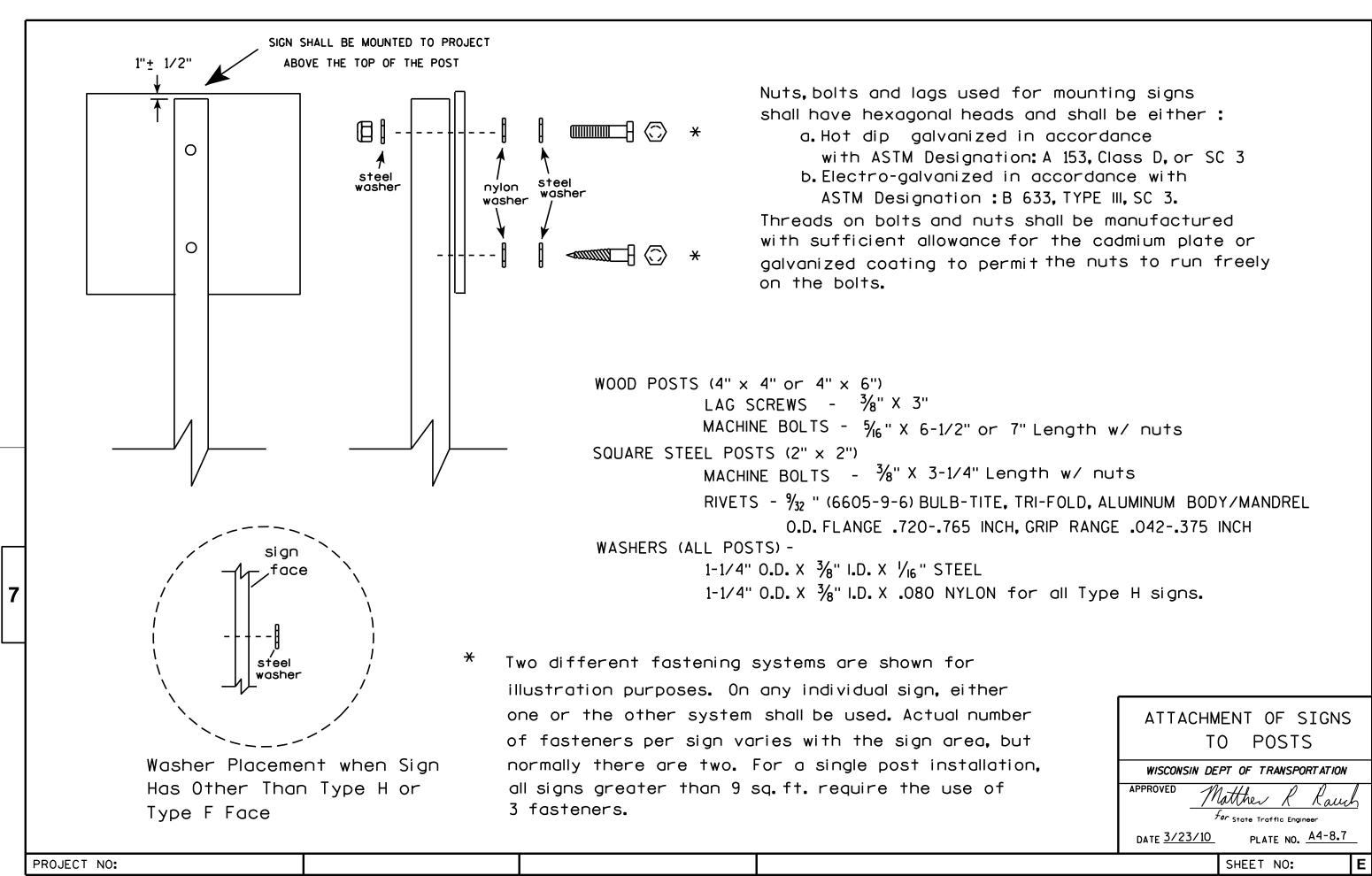
PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43.DGN COUNTY:

PLOT BY: mscsja

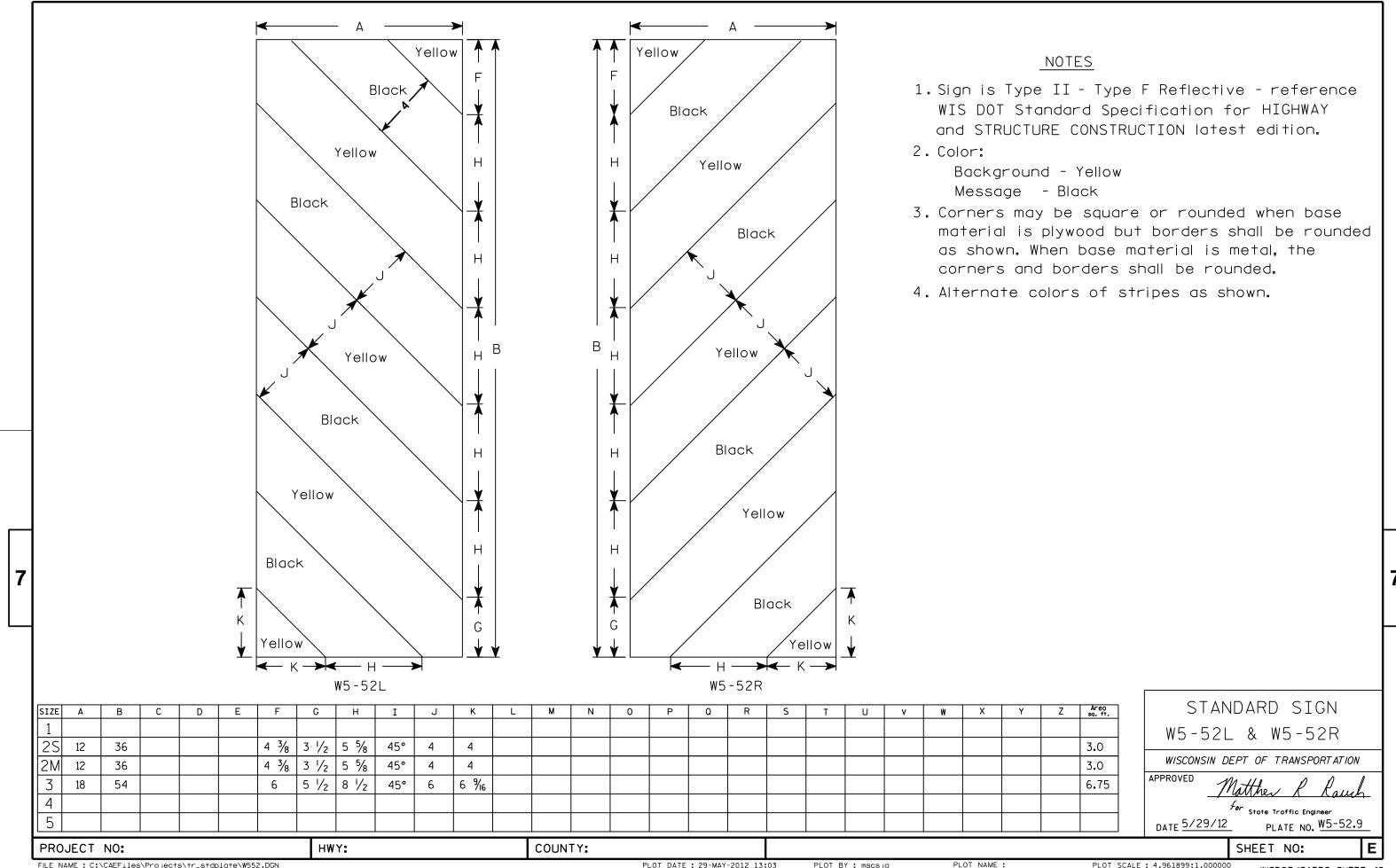
PLOT NAME :

WISDOT/CADDS SHEET 42

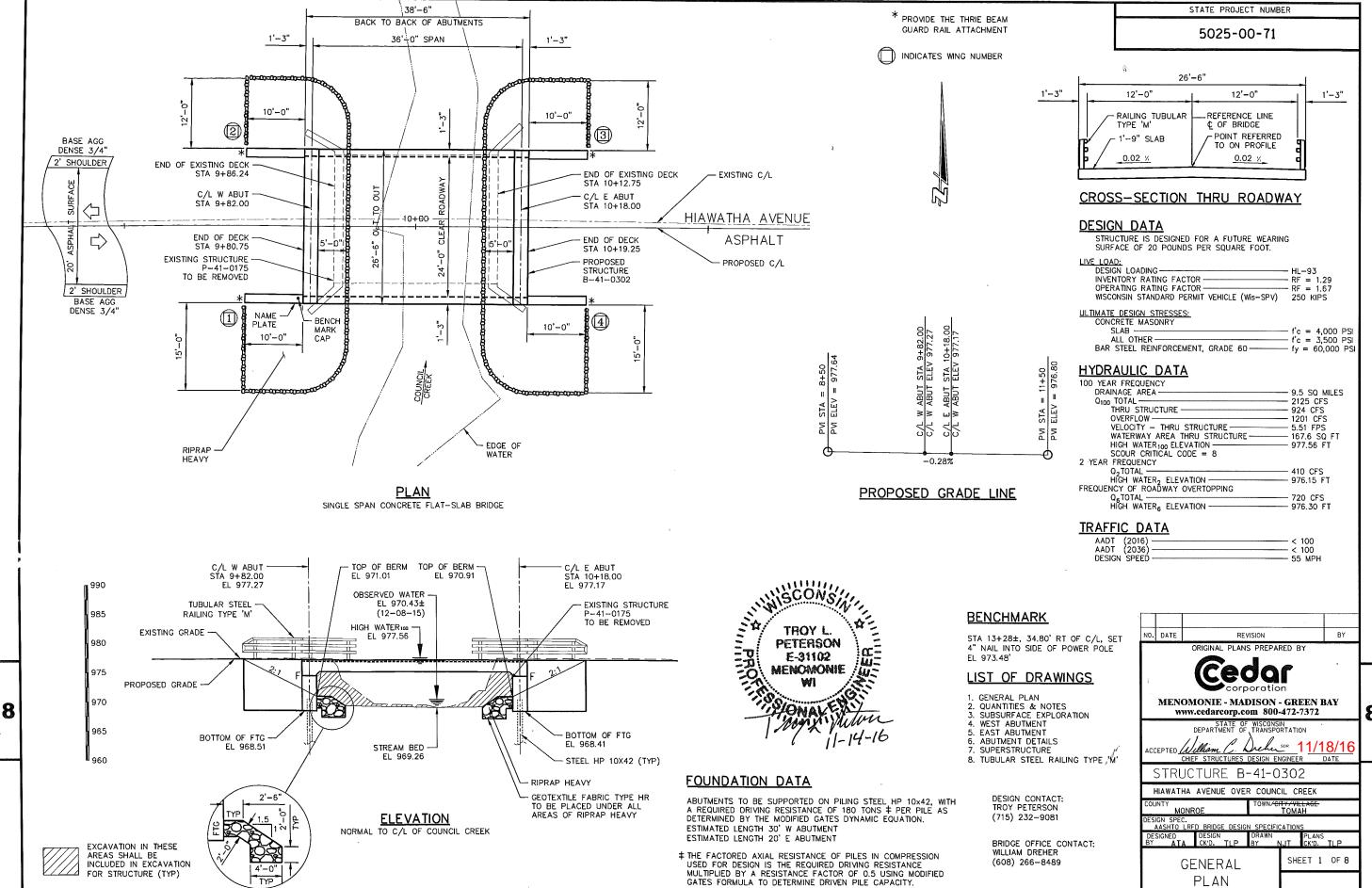
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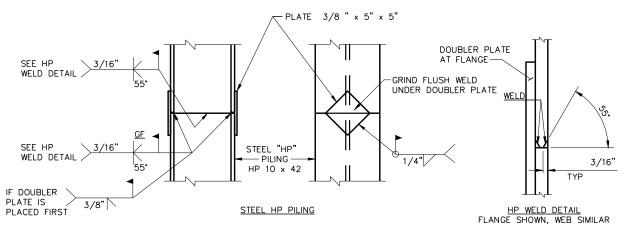
FOR STRUCTURE (TYP)



PLAN

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	W ABUT	E ABUT	SUPER	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA 10+00	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-41-0302	LS				1
210.1500	BACKFILL STRUCTURE TYPE 'A'	TON	165	165		330
502.0100	CONCRETE MASONRY BRIDGES	CY	32.3	32.3	70.4	135.0
502.3200	PROTECTIVE SURFACE TREATMENT	SY			135	135
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1550	1550		3100
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1430	1430	12400	15260
550.1100	PILING STEEL HP 10-INCH x 42 LB	LF	120	80		200
513.4061	RAILING TUBULAR TYPE 'M' (B-41-0302)	LF				117
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8	8		16
606.0300	RIPRAP HEAVY	CY	55	55		110
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80	80		160
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	110	110		220
SPV.0085.01	FIBER REINFORCEMENT FOR CONCRETE MASONRY BRIDGES	LB			105	105
	NON-BID ITEMS					
	FILLER	SIZE				1/2 & 3/4



PILE SPLICE DETAILS

STATE PROJECT NUMBER

5025-00-71

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ALL ELEVATIONS ARE IN FEET.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC TYPE 'HR' TO THE EXTENT SHOWN ON SHEET 1 AND AND IN THE ABUTMENT DETAILS.

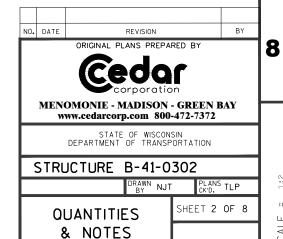
STEEL 'HP' PILE MATERIAL SHALL BE A.S.T.M. DESIGNATION

THE EXISTING STRUCTURE (P-41-0175) IS A 28.5' LONG BY 22.5' WIDTH SINGLE-SPAN CONCRETE DECK BRIDGE.

THE PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF THE SLAB AND TO THE OUTSIDE 1'-0" OF THE UNDERSIDE OF THE SLAB.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE IN PLACE BEFORE ABUTMENT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE GRADATION OF THE BACKFILL STRUCTURE SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

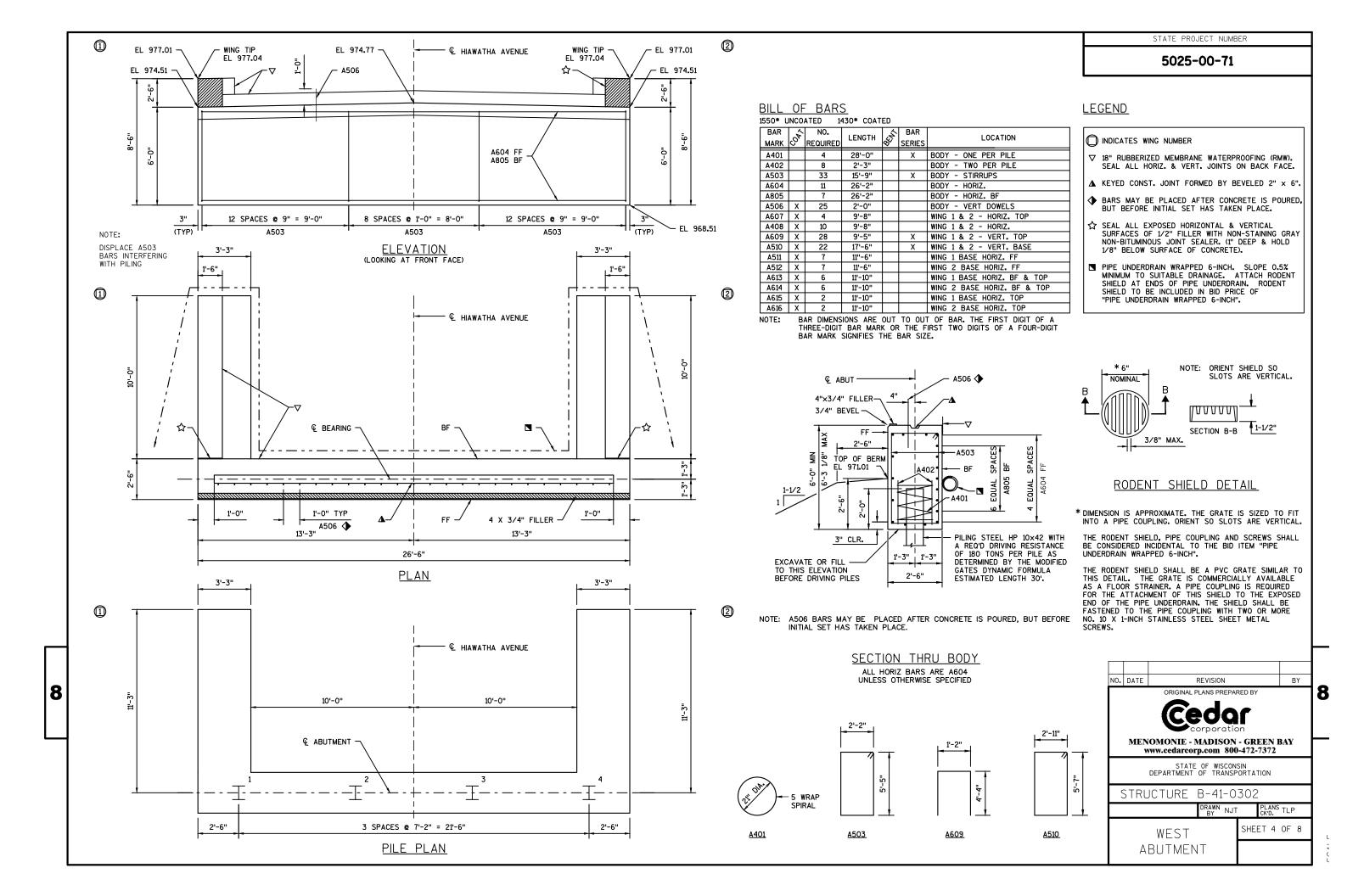


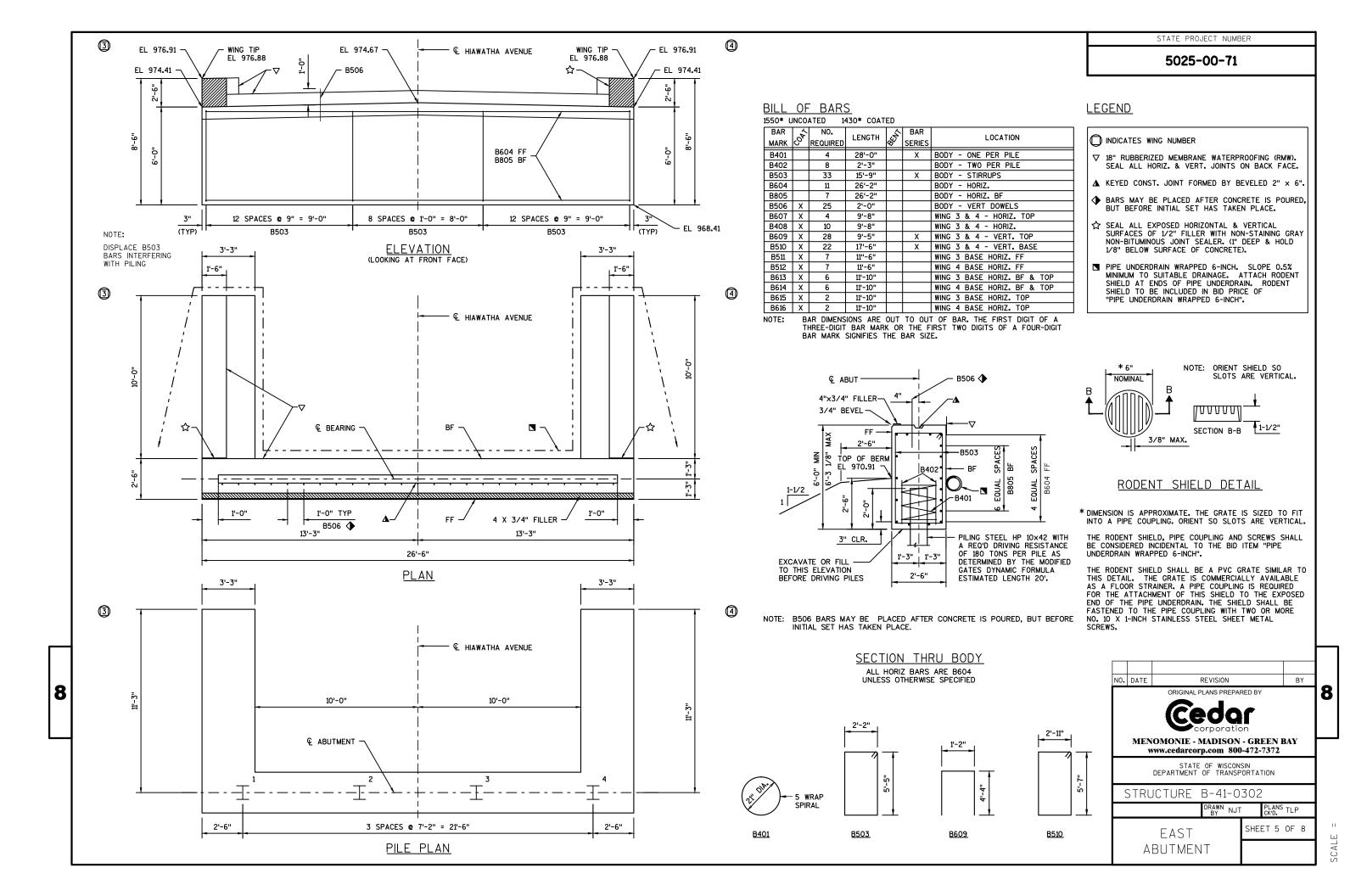
STATE PROJECT NUMBER

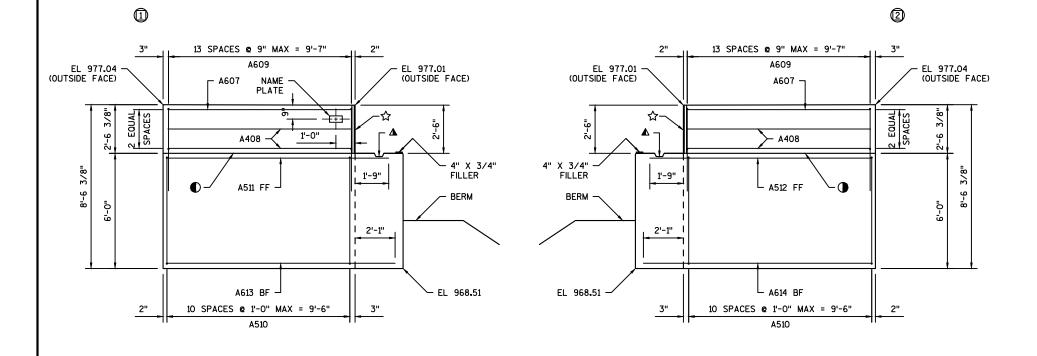
8

BY

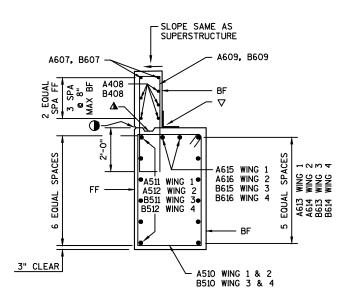
PLANS TLP





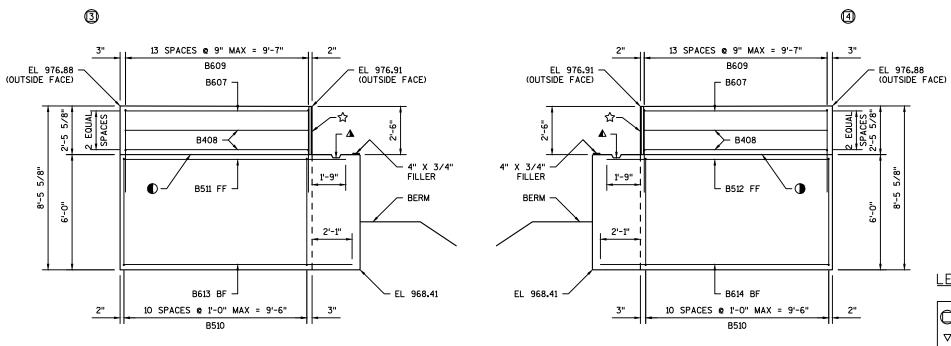


WEST ABUTMENT WINGS



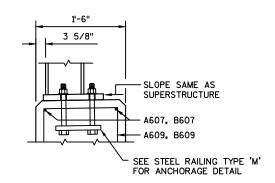
BF = BACK FACE FF = FRONT FACE

TYPICAL SECTION THRU WING



EAST ABUTMENT WINGS

8

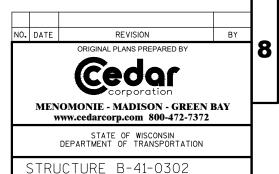


SPACE A609 & B609 BARS TO MISS ANCHORS FOR RAIL POSTS

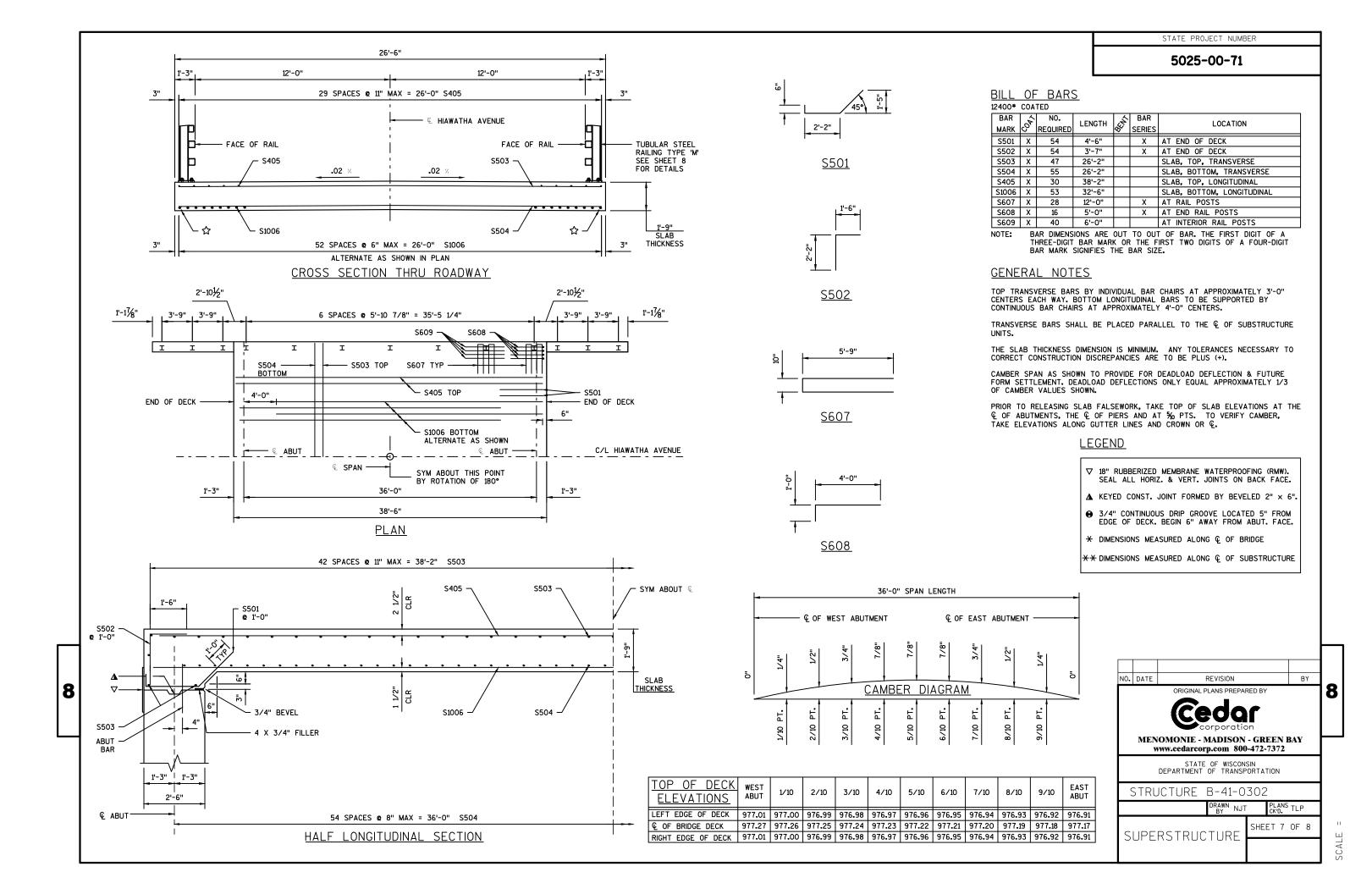
SECTION AT TOP OF WING

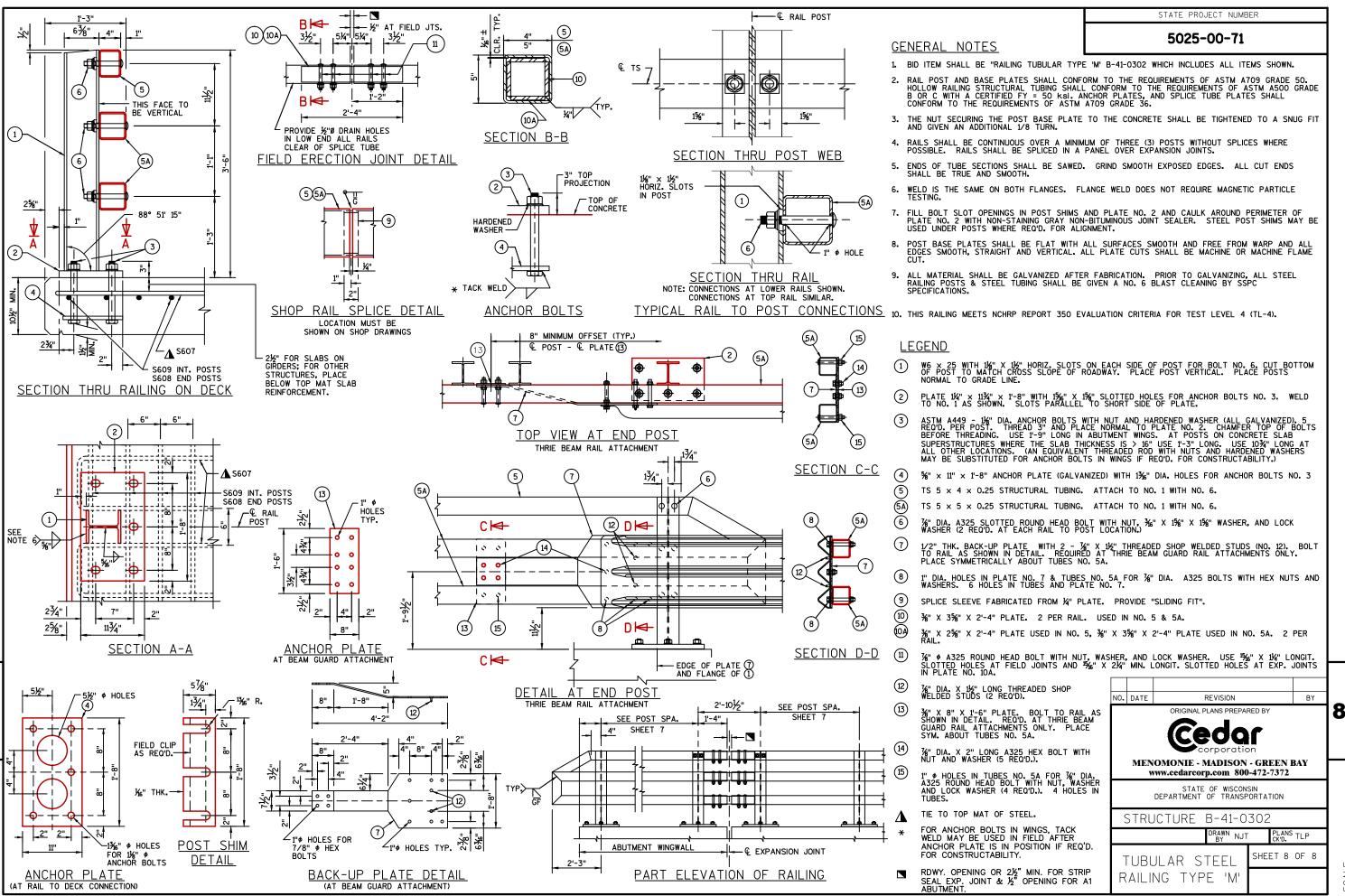


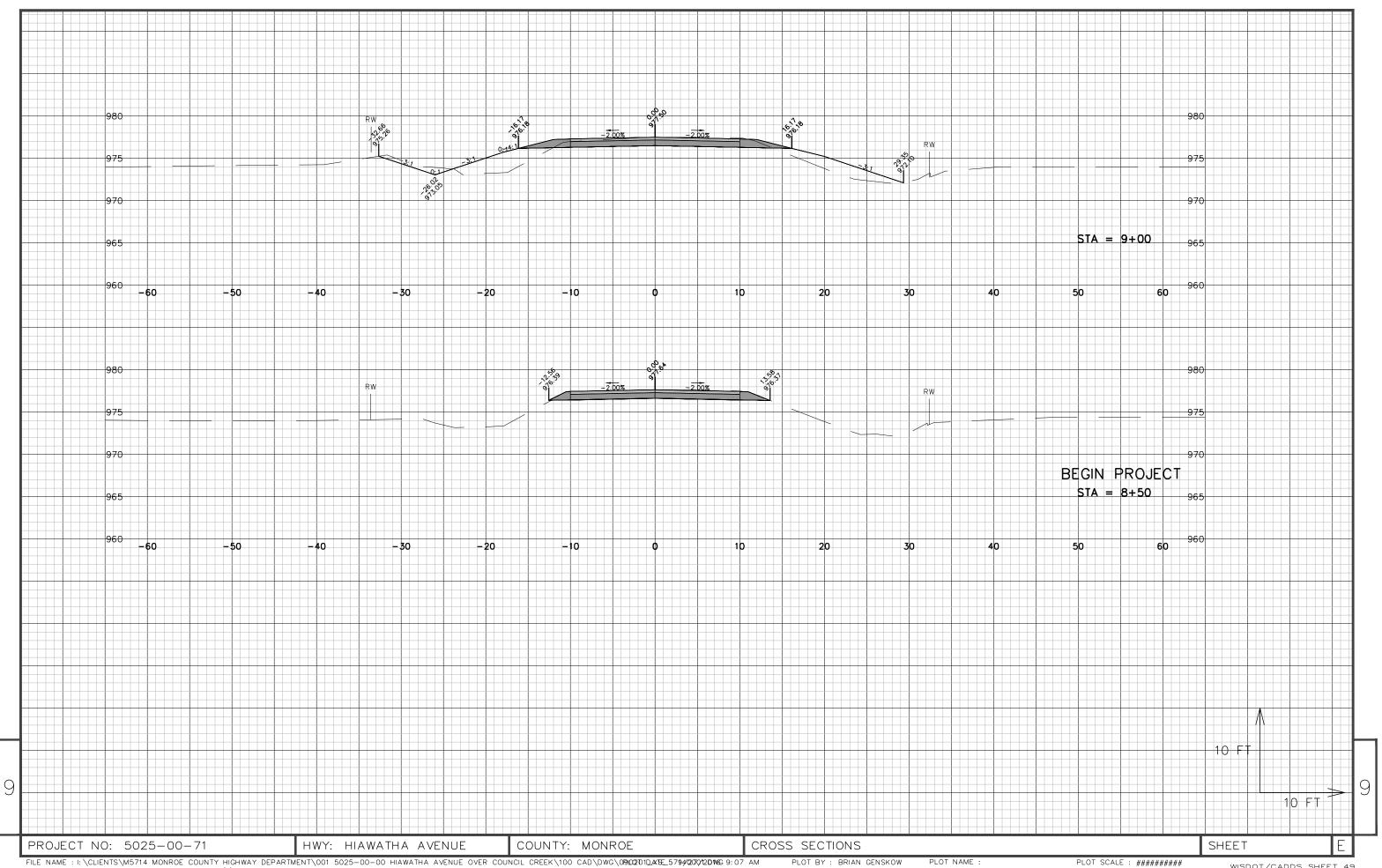
- INDICATES WING NUMBER
- ☐ 18" RUBBERIZED MEMBRANE WATERPROOFING (RMW). SEAL ALL HORIZ. & VERT. JOINTS ON BACK FACE.
- ▲ KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".
- ☆ SEAL ALL EXPOSED HORIZONTAL & VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE).
- OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" × 6". (18" RMW @ BF & 3/4" 'V' GROOVE @ F.F. OF WING WALL IF JOINT IS USED).

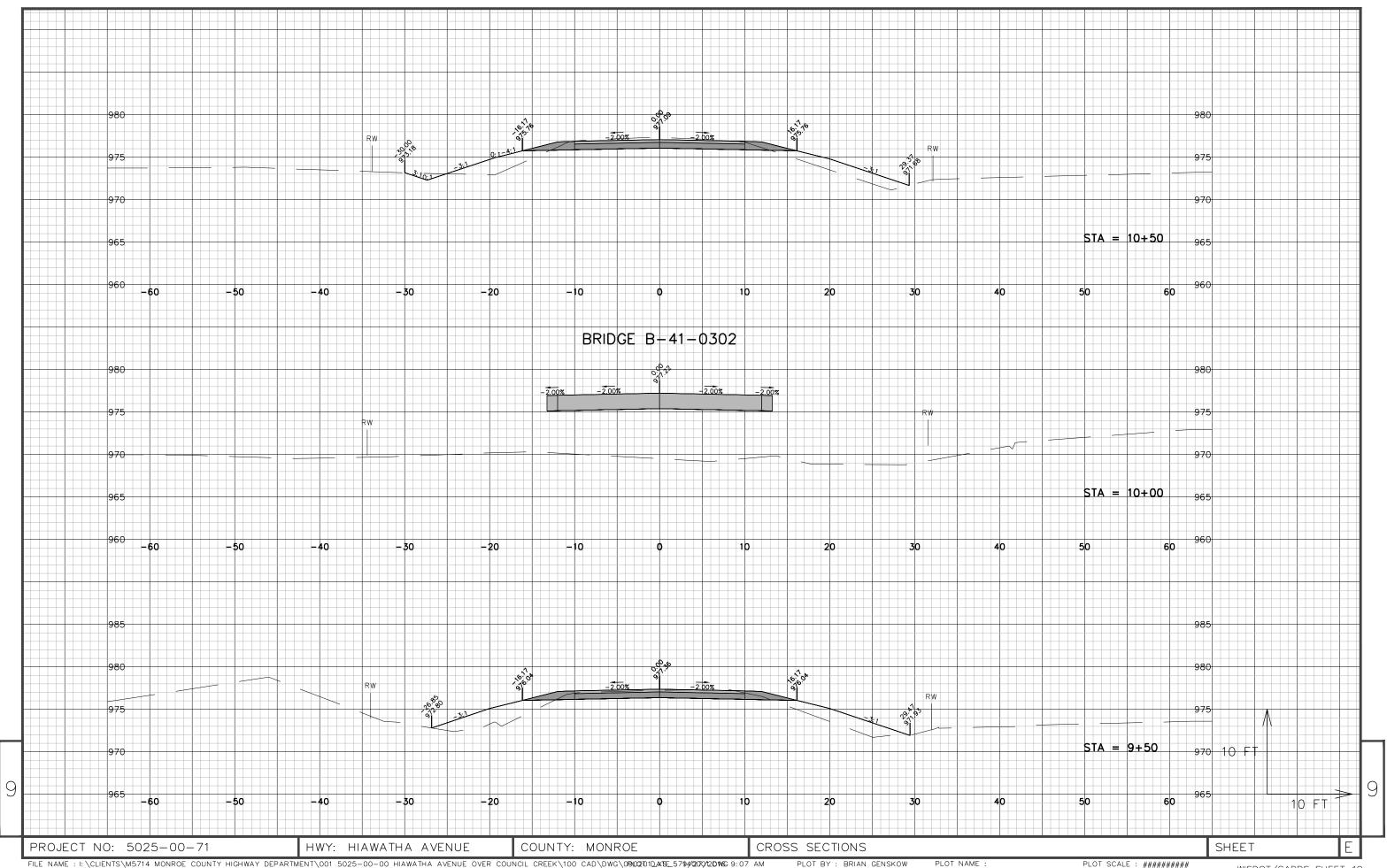


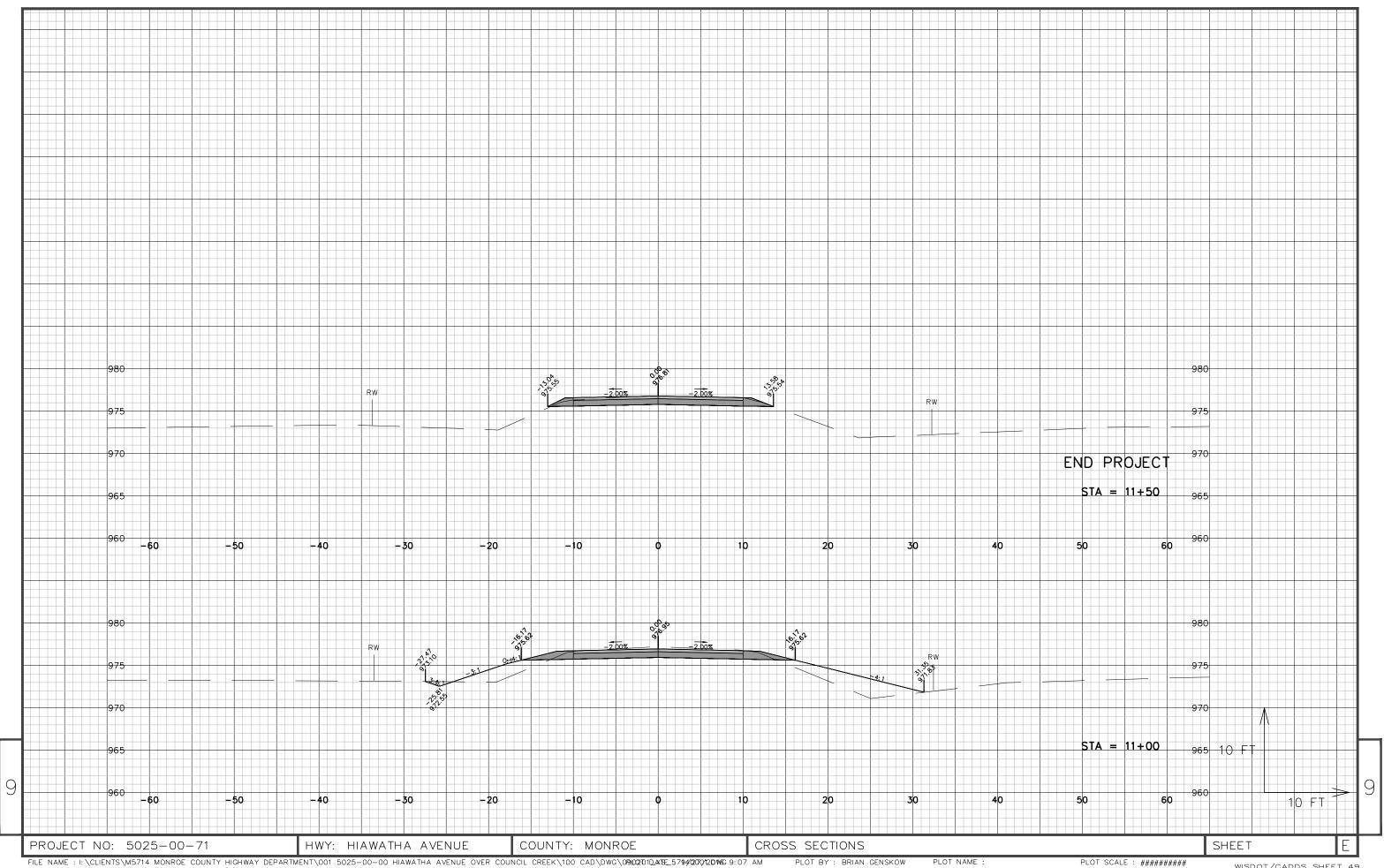
ABUTMENT SHEET 6 OF 8
DETAILS











Notes



Wisconsin Department of Transportation

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