8422-00-70

RUS

OF SHEETS

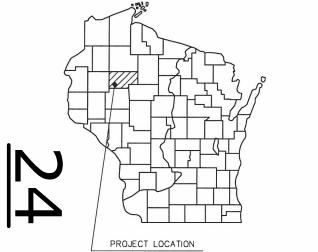
Sheet No. Typical Sections, Details & Erosion Control Plan Sheet No. Sheet No. Estimate of Quantities Sheet No. Miscellaneous Quantities

Sheet No Sheet No. Plan and Profile Sheet No. Standard Detail Drawings Sheet No. Sign Plates

Structure Plans Sheet No. Sheet No. Computer Earthwork Data

9 Cross-Sections

TOTAL SHEETS = 32



DESIGN DESIGNATION

AADT (2016) = 50AADT (2036) = 70DHV (2036) = 9= 50/50T (% OF ADT) = 10%DESIGN SPEED = 55 MPH **ESALS**

CONVENTIONAL SYMBOLS

PLAN		
FENCE		
RIPRAP		
CORPORATE LIMITS		///////.
PROPERTY LINE		
LOT LINE		
LIMITED HIGHWAY EAS	EMENT	
EXISTING RIGHT OF WA	100	
PROPOSED OR NEW R	/W LINE	
SLOPE INTERCEPT		
REFERENCE LINE		
EXISTING CULVERT	32	
PROPOSED CULVERT		
(Box or Pipe)		Mh
COMBUSTIBLE FLUIDS		CAUTION
HIGH VOLTAGE		CAUTION
MARSH AREA		(alle alle alle)

WOODED OR SHRUB AREA

RIGHT-OF-WAY MARKERS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

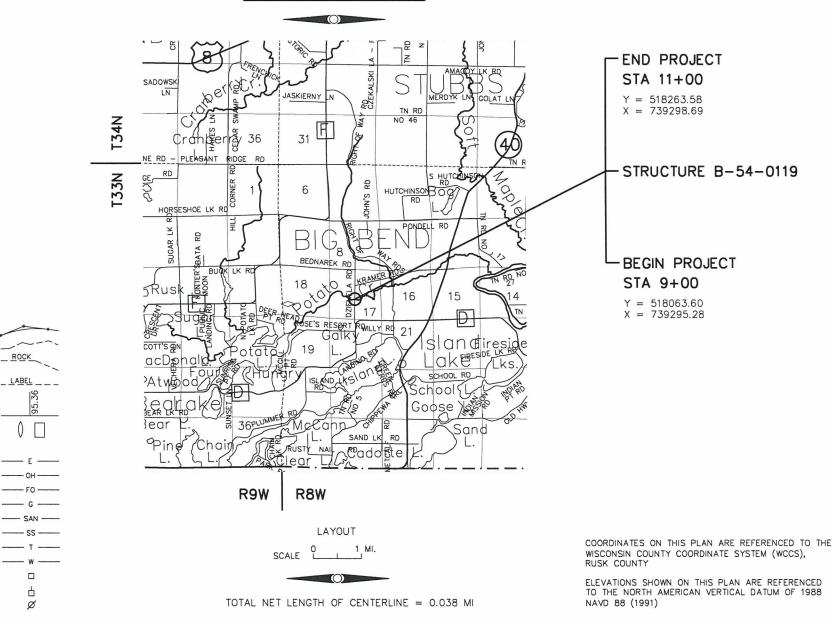
PLAN OF PROPOSED IMPROVEMENT

BIG BEND, DZIEMELA ROAD

(POTATO CREEK BRIDGE B-54-0119)

LOCAL STREET **RUSK COUNTY**

STATE PROJECT NUMBER 8422-00-70



FEDERAL PROJECT STATE PROJECT **PROJECT** CONTRACT 8422-00-70 WISC 2016108

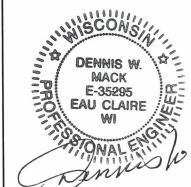
> ACCEPTED FOR TOWN OF BIG BEND Mudn TOWN CHAIRMAN ACCEPTED FOR

RUSK COUNTY 10-28-15 Sprul. COUNTY COMMISSIONER

ORIGINAL PLANS PREPARED BY



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



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor CEDAR CORPORATION Designer CEDAR CORPORATION

Management Consultant KNIGHT E/A, INC

APPROVED FOR THE DEPARTMENT

DATE

(Management Consultant Signature)

PROFILE

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES ELECTRIC

GRADE ELEVATION

OVERHEAD LINES

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER

TELEPHONE

WATER

FIBER OPTIC

GAS

CULVERT (Profile View)

MARSH OR ROCK PROFILE (To be noted as such)

__ ROCK_

0 \square

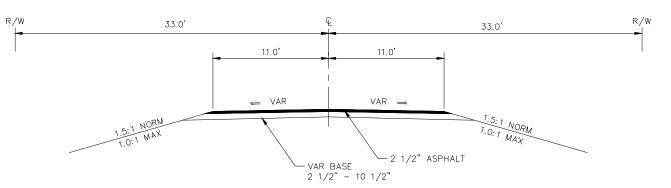
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		HYDROLOGIC SOIL GROUP											
			A		В			С			D		
	S		RANGE CENT)	9	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)				
LAND USE:	0-2	2-6	6 & OVEF	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40	
SIDE SLOPE-TURF			.25			.27			.28			.30	
			.32			.34			.36			.38	
PAVEMENT:													
ASPHALT						.70 -	95						
CONCRETE						.80 -	95						
BRICK	CK .70 – .80												
DRIVES, WALKS	DRIVES, WALKS .75 – .85												
ROOFS .7595													
GRAVEL ROADS, SHOULDERS .4060													

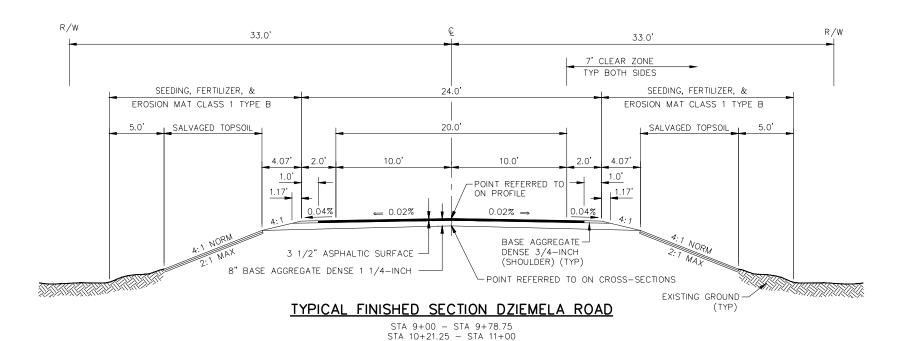
TOTAL PROJECT AREA = 0.30 ACRE

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.19 ACRE



TYPICAL EXISTING SECTION DZIEMELA ROAD

STA 9+00 & STA 11+00



DNR LIAISON

DNR NORTHERN REGION HQ 810 W. MAPLE STREET SPOONER, WI 54801 (715) 635-4229 AMY CRONK amy.cronk@wisconsin.gov

DESIGN CONSULTANT

CEDAR CORPORATION 604 WILSON AVENUE MENOMONIE, W 54751 (715) 235-9081 TROY L. PETERSON, PE troy.peterson@cedarcorp.com



** DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

GENERAL NOTES

THERE ARE NO KNOWN UTILITIES WITHIN THE PROJECT AREA. HOWEVER IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM THIS.

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
PERMOVAL

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.

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR A MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY THE ENGINEER.

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 $3\frac{1}{2}$ " ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A $1\frac{1}{2}$ " LOWER LAYER AND A $1\frac{1}{2}$ " UPPER LAYER. USE 12.5 mm NOMINAL AGGREGATE FOR ASPHALT SURFACE.

BEARINGS REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RUSK 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. USE SEED MIX NO. 10.

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.

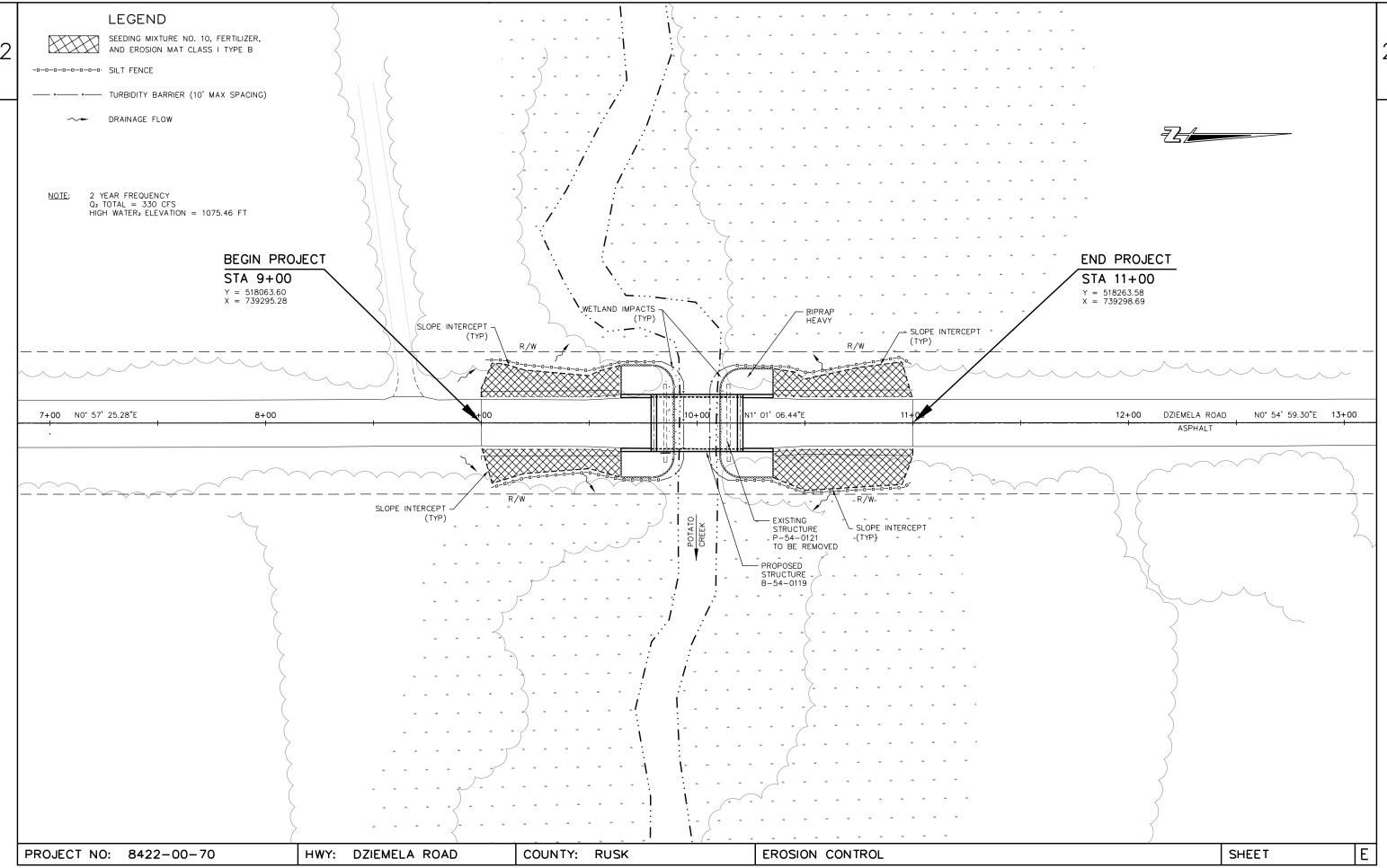
THE BENCHMARK IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88).

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

STANDARD ABBREVIATIONS

SHEET

PROJECT NO: 8422-00-70 HWY: DZIEMELA ROAD COUNTY: RUSK TYPICAL SECTIONS & GENERAL NOTES



DATE 10	6FEB16	EST	IMAT	E OF QUAN	T I T I E S 8422-00-70
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010	201. 0205	Grubbi ng	STA	2.000	2. 000
0020	203. 0600. S	Removing Old Structure Over Waterway	LS	1. 000	1. 000
0000	005 0400	With Minimal Debris (station) 01. 10+00	0)/	447.000	4.7.000
0030	205. 0100	Excavation Common	CY	147. 000	147. 000
0040	206. 1000	Excavation for Structures Bridges	LS	1. 000	1. 000
0050	210. 0100	(structure) 01. B-54-0119 Backfill Structure	CY	100.000	100. 000
0030	210.0100	Dackiiii Structure	CI	100.000	100.000
0060	213. 0100	Finishing Roadway (project) 01.	EACH	1. 000	1. 000
0000	2.0.0.00	8422-00-70			
0070	305. 0110	Base Aggregate Dense 3/4-Inch	TON	10.000	10.000
0800	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	230.000	230.000
0090	465.0105	Asphaltic Surface	TON	72.000	72.000
0100	502.0100	Concrete Masonry Bridges	CY	171. 000	171. 000
0110	502. 3200	Protective Surface Treatment	SY	150. 000	150. 000
0120	505. 0400	Bar Steel Reinforcement HS Structures	LB	3, 460. 000	3, 460. 000
0130	505. 0600	Bar Steel Reinforcement HS Coated	LB	18, 220. 000	18, 220. 000
		Structures	. –	46	
0140	513. 4061	Railing Tubular Type M (structure) 01.	LF	133. 000	133. 000
0450	E4/ 0500	B-54-0119	6)/	40.000	40.000
0150	516. 0500	Rubberized Membrane Waterproofing	SY	10. 000	10. 000
01/0	FEO 212/	Dilling CID Concests 10 2/4 V C 2/5 /		400.000	400 000
0160	550. 2106	Piling CIP Concrete 10 3/4 X 0.365-Inch Riprap Heavy	LF CV	400. 000 150. 000	400. 000 150. 000
0170	606. 0300		CY		160.000
0180 0190	612. 0406 619. 1000	Pipe Underdrain Wrapped 6-Inch Mobilization	LF EACH	160. 000 1. 000	1.000
0190	624. 0100	Water	MGAL	3. 370	3. 370
0200	024. U100		WORL	3. 370	3.370
0210	625. 0500	Sal vaged Topsoi I	SY	385.000	385. 000
0220	628. 1504	Silt Fence	LF	320. 000	320. 000
0230	628. 1520	Silt Fence Maintenance	LF	520. 000	520. 000
0240	628. 1905	Mobilizations Erosion Control	EACH	3. 000	3. 000
0250	628. 1910	Mobilizations Emergency Erosion Control	EACH	3. 000	3. 000
0260	628. 2004	Erosion Mat Class I Type B	SY	380.000	380. 000
0270	628. 6005	Turbi di ty Barri ers	SY	44.000	44.000
0280	629. 0210	Fertilizer Type B	CWT	0. 240	0. 240
0290	630. 0110	Seeding Mixture No. 10	LB	10.000	10.000
0300	634. 0612	Posts Wood 4x6-Inch X 12-FT	EACH	4. 000	4. 000
0310	637. 2230	Signs Type II Reflective F	SF	12. 000	12. 000
0320	638. 2602	Removing Signs Type II	EACH	4. 000	4. 000
0330	638. 3000	Removing Small Sign Supports	EACH	4. 000	4. 000
0340	642. 5001	Field Office Type B	EACH	1. 000	1. 000
0350	643. 0100	Traffic Control (project) 01. 8422-00-70	EACH	1. 000	1. 000
	(10.0:00	T. CC: 0 1 1 P	DAY	/62 225	/62 225
0360	643. 0420	Traffic Control Barricades Type III	DAY	690.000	690. 000
0370	643. 0705	Traffic Control Warning Lights Type A	DAY	1, 104. 000	1, 104. 000
0380	643. 0900	Traffic Control Signs	DAY	690.000	690.000
0390	645. 0120	Geotextile Fabric Type HR	SY	275. 000	275. 000
0400	650. 4500	Construction Staking Subgrade	LF	157. 000	157. 000
0410	4E0 E000	Construction Staking Page	15	1F7_000	157 000
0410	650. 5000	Construction Staking Base	LF LS	157.000	157. 000
0420	650. 6500	Construction Staking Structure Layout	LS	1. 000	1. 000
0430	650. 9910	(structure) 01. B-54-0119 Construction Staking Supplemental	LS	1. 000	1. 000
0430	050. 7710	Control (project) 01. 8422-00-70	LJ	1.000	1.000
0440	650. 9920	Construction Staking Slope Stakes	LF	157. 000	157. 000
0440	690. 9920 690. 0150	Sawing Asphalt	LF LF	44. 000	44. 000
0430	070.0130	Jawi ng Asphal t	LI	44.000	44.000
0460	715. 0502	Incentive Strength Concrete Structures	DOL	1, 026. 000	1, 026. 000
0400	ASP. 1TOA	On-the-Job Training Apprentice at \$5.	HRS	1, 200. 000	1, 200. 000
5.70		00/HR		., 250. 000	., 250. 555
					

DATE 16	FEB16	E S	TIMATE	OF QUANT	T I T I E S
LINE					8422-00-70
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0480	ASP. 1TOG	On-the-Job Training Graduate at \$5.00/H	r HRS	300.000	300.000

GRUBBING

FINISHING ROADWAY
205

WATER

		201.0205
		GRUBBING
STATION - STATION	LOCATION	STA.
9+00 - 11+00	DZIEMELA RD	2
TOTAL		2

		213.0100
STATION - STAT	TION LOCATION	EACH
9+00 - 11+00	DZIEMELA RD	1
TOTAL		1

		624.0100
PROJECT	LOCATION	MGAL
8422-00-70	DZIEMELA RD	3.37
TOTAL		3.37

DIVISION	STATIONING	LOCATION	205.0100 COMMON EXCAVATION (CY) **P**	SALVAGED / UNUSABLE PAVEMENT MATERIAL (1)	AVAILABLE MATERIAL (CY) (2)	UNEXPANDE D FILL	EXPANDED FILL	MASS ORDINATE +/- (3)	208.0100 BORROW (CY)
			CUT				FACTOR 1.25		
1	9+00 - 9+79	SOUTH APPROACH	67	13	54	6	8	46	0
DIVISION 1 SUBTOTAL		•	67	13	54	6	8	46	0
2	10+21 - 11+50	NORTH APPROACH	80	13	67	1	1	66	0
DIVISION 2 SUBTOTAL		•	80	13	67	1	1	66	0
GRAND TOTAL			147	26	121	7	9	112	0
	TOTAL CO	OMMON EXCAVATION =	147			•			0

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

		465.0105
STATION - STATION	LOCATION	TON
9+00 - 9+79	S APPROACH	36
10+22 - 11+00	N APPROACH	36
TOTAL		72

MOBILIZATION

	619.1000
LOCATION	EACH
DZIEMELA ROAD	1
TOTAL	1

BASE AGGREGATE DENSE

		305.0120	305.0110
		1 1/4 - INCH	3/4 - INCH
STATION - STAT	ION LOCATION	TON	TON
9+00 - 9+79	S APPROACH	115	5
10+22 - 11+00	N APPROACH	115	5
TOTAL		230	10

FIELD OFFICE TYPE B

		642.5001
PROJECT	LOCATION	EACH
8422-00-70	DZIEMELA RD	1
TOTAL		1

PROJECT NO: 8422-00-70 HWY: DZIEMELA ROAD COUNTY: RUSK	MISCELLANEOUS QUANTITIES	SHEET	E
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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.

RESTORATION ITEMS

629.0210 625.0500 630.0110 SALVAGED FERTILIZER SEEDING MIXTURE **TOPSOIL** TYPE B NO. 10 LOCATION CWT LB STATION - STATION SY 9+00 - 9+79 RT 80 0.05 2.1 9+00 - 9+79 LT 90 0.05 2.3 RT 10+21 - 11+00 125 3.3 0.08 10+21 - 11+00 LT 90 0.06 2.3 TOTAL 385 0.24 10.0

EROSION CONTROL ITEMS

		628.1504 SILT FENCE	628.6005 TURBIDITY BARRIER	628.1520 SILT FENCE MAINTENANCE	628.2004 EROSION MAT CLASS I TYPE B	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL
STATION - STATION	LOCATION	LF	SY	LF	SY	EACH	EACH
9+00 - 9+79	SO APPROACH	155	22		170		
10+21 - 11+00	NO APPROACH	165	22		210		
9+00 - 11+00	RT/LF			520		3	3
TOTAL		320	44	520	380	3	3

SIGNING QUANTITIES

	637.2230	634.0612	638.2602	638.3000	
	SIGNS TYPE II	POSTS WOOD	REMOVING SIGNS	REMOVING SMALL	
	REFLECTIVE F	4X6-INCH X 12-FT	TYPE II	SIGN SUPPORTS	
LOCATION	SF	EACH	EACH	EACH	DESCRIPTION
NW BRIDGE CORNER	3.00	1	1	1	W5-52 L
SW BRIDGE CORNER	3.00	1	1	1	W5-52 L
NE BRIDGE CORNER	3.00	1	1	1	W5-52 R
SE BRIDGE CORNER	3.00	1	1	1	W5-52 R
TOTAL	12.00	4	4	4	

TRAFFIC CONTROL

			643.0100	643.0420	643.0705	643.0900
		CALENDAR DAYS	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL
		IN SERVICE	PROJECT	BARRICADES	WARNING LIGHTS	SIGNS
			8422-00-70	TYPE III	TYPE A	
_	LOCATION	DAYS	EACH	DAY	DAY	DAY
_	DZIEMELA RD	69	1	690	1104	690
-	TOTAL	69	1	690	1104	690

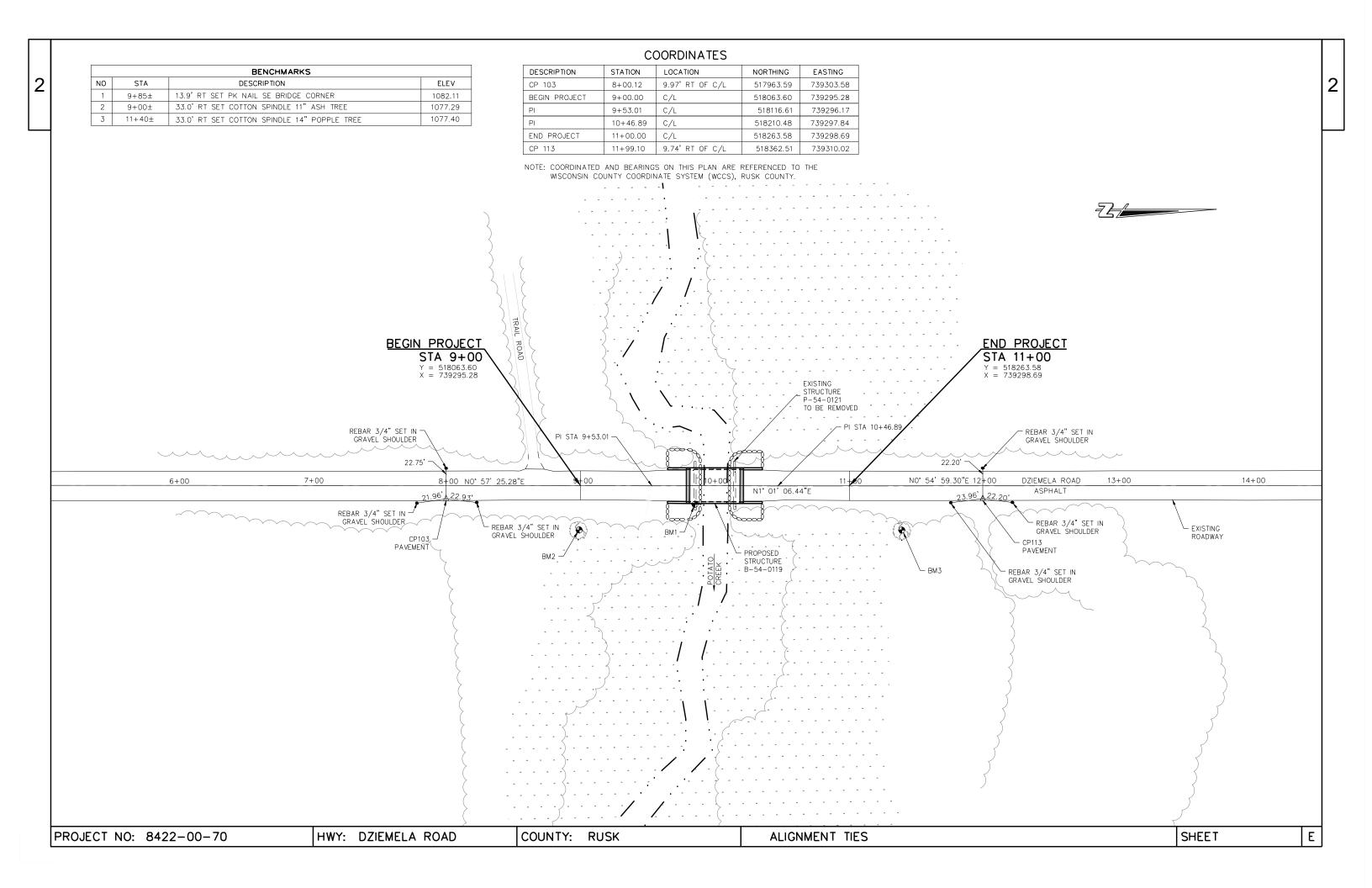
CONSTRUCTION STAKING

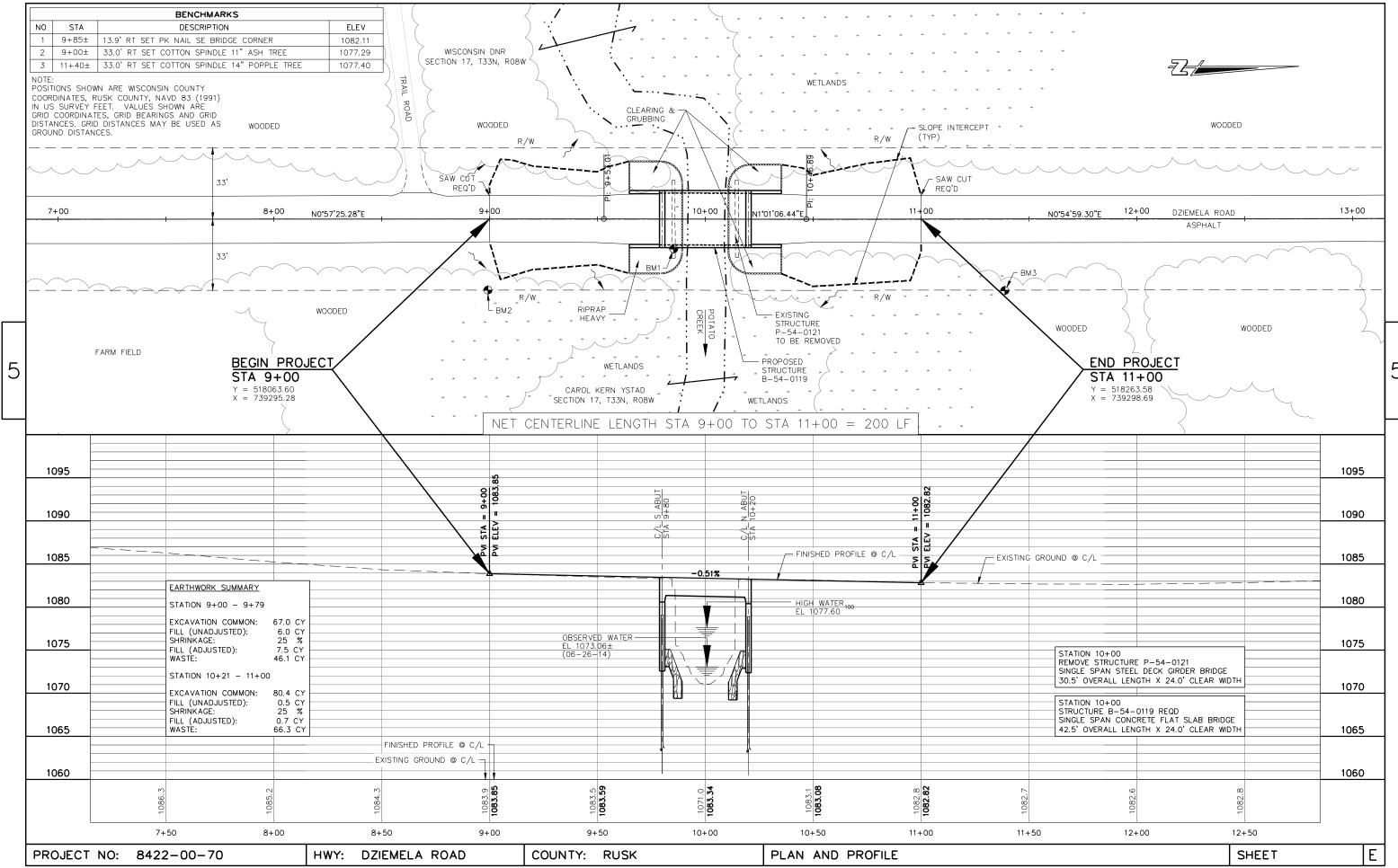
		650.4500	650.5000	650.9920
		SUBGRADE	BASE	SLOPE STAKES
STATION - STATION	LOCATION	LF	LF	LF
9+00 - 11+00	DZIEMELA RD	157	157	157
TOTAL		157	157	157

SAWING ASPHALT

		690.0150
STATION	LOCATION	LF
9+00 11+00	BEGIN PROJECT END PROJECT	22 22
TOTAL		44

PROJECT NO: 8422-00-70	HWY: DZIEMELA ROAD	COUNTY: RUSK	MISCELLANEOUS QUANTITIES	SHEET	E
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Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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



BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



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.

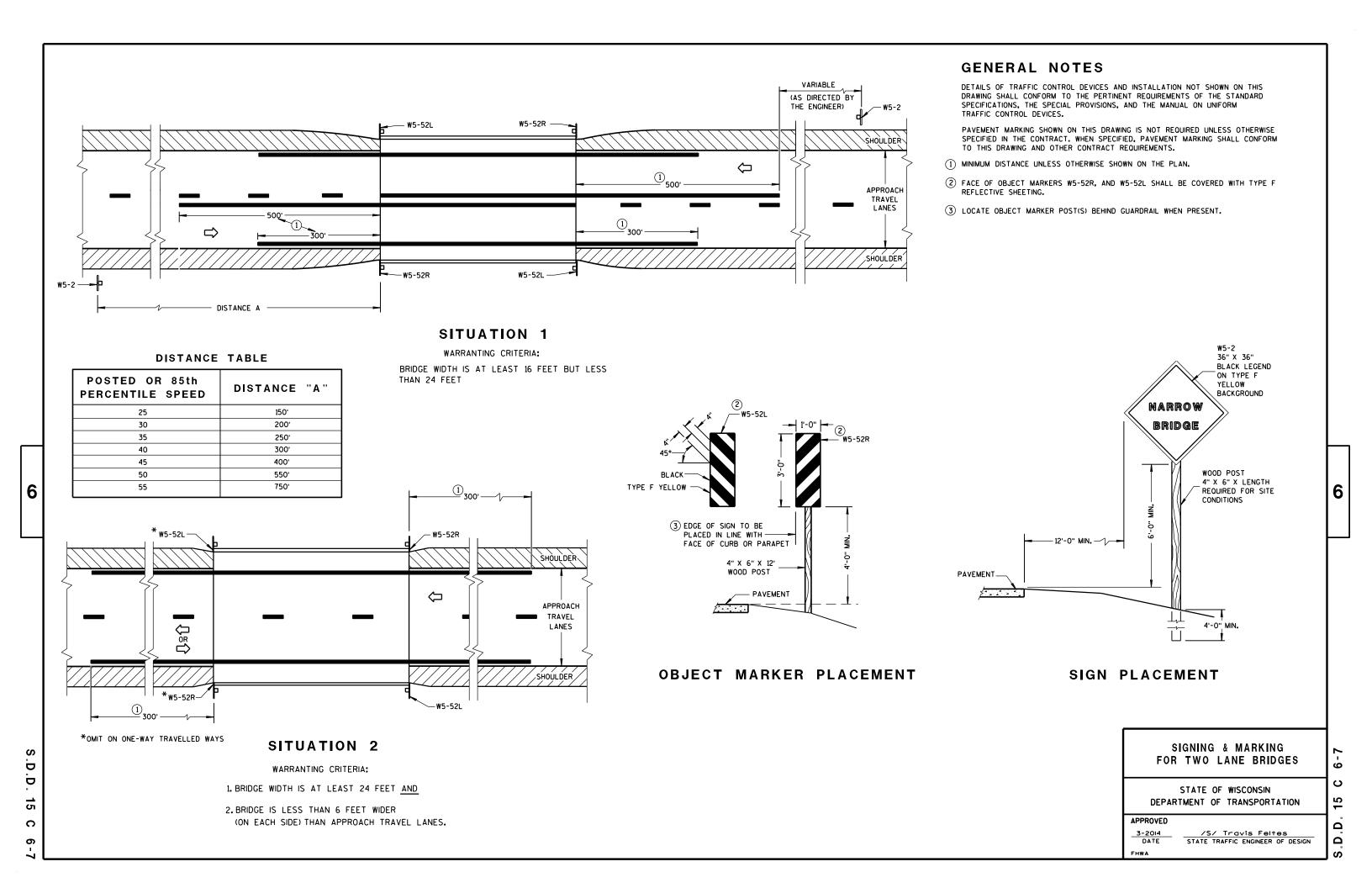
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

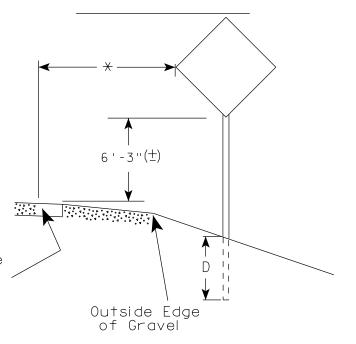
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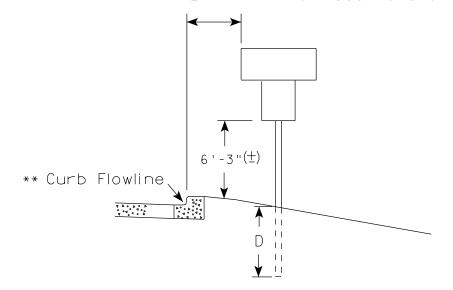
URBAN ARFA

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) A POLICE AND A POL 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

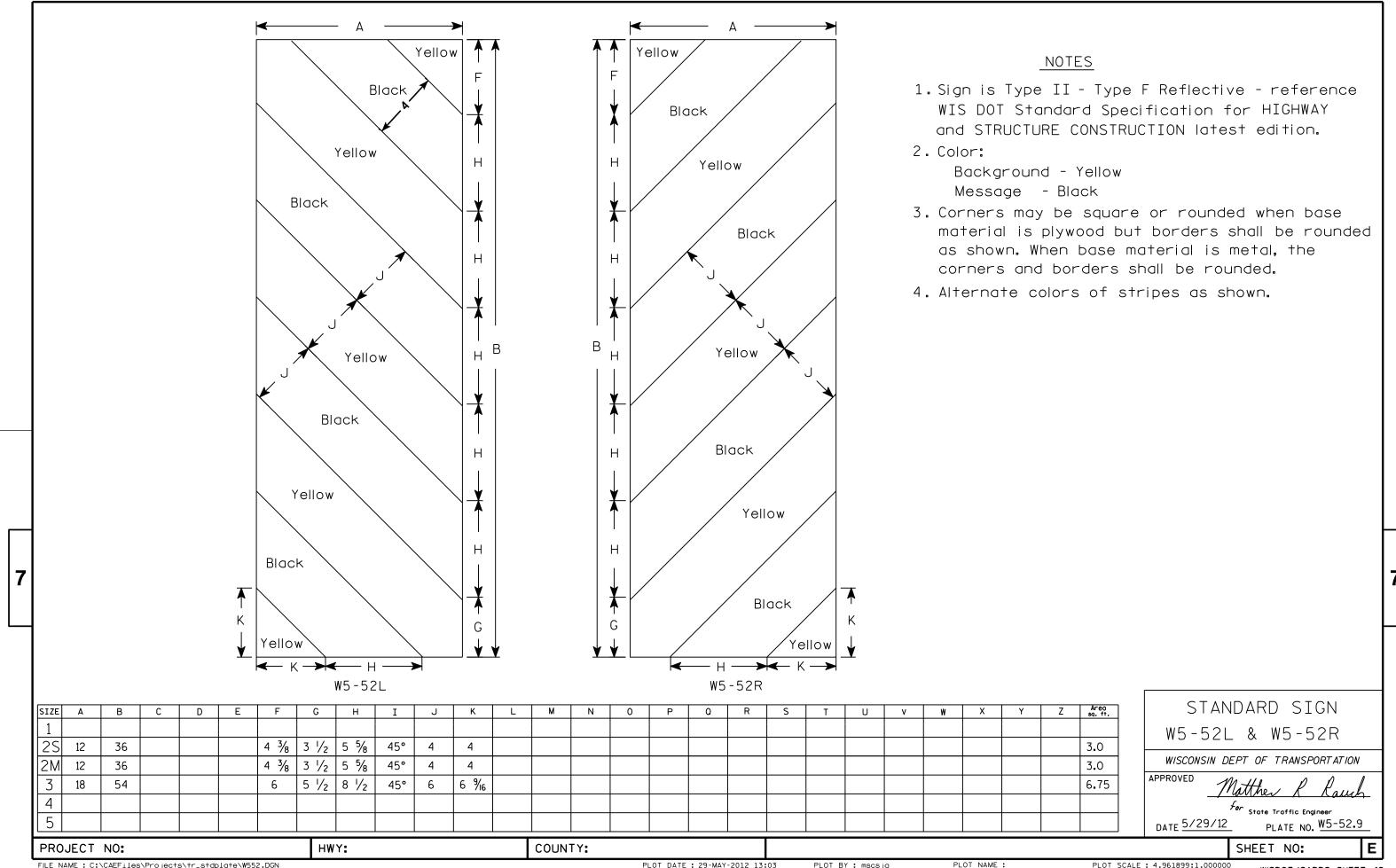
PLOT NAME :

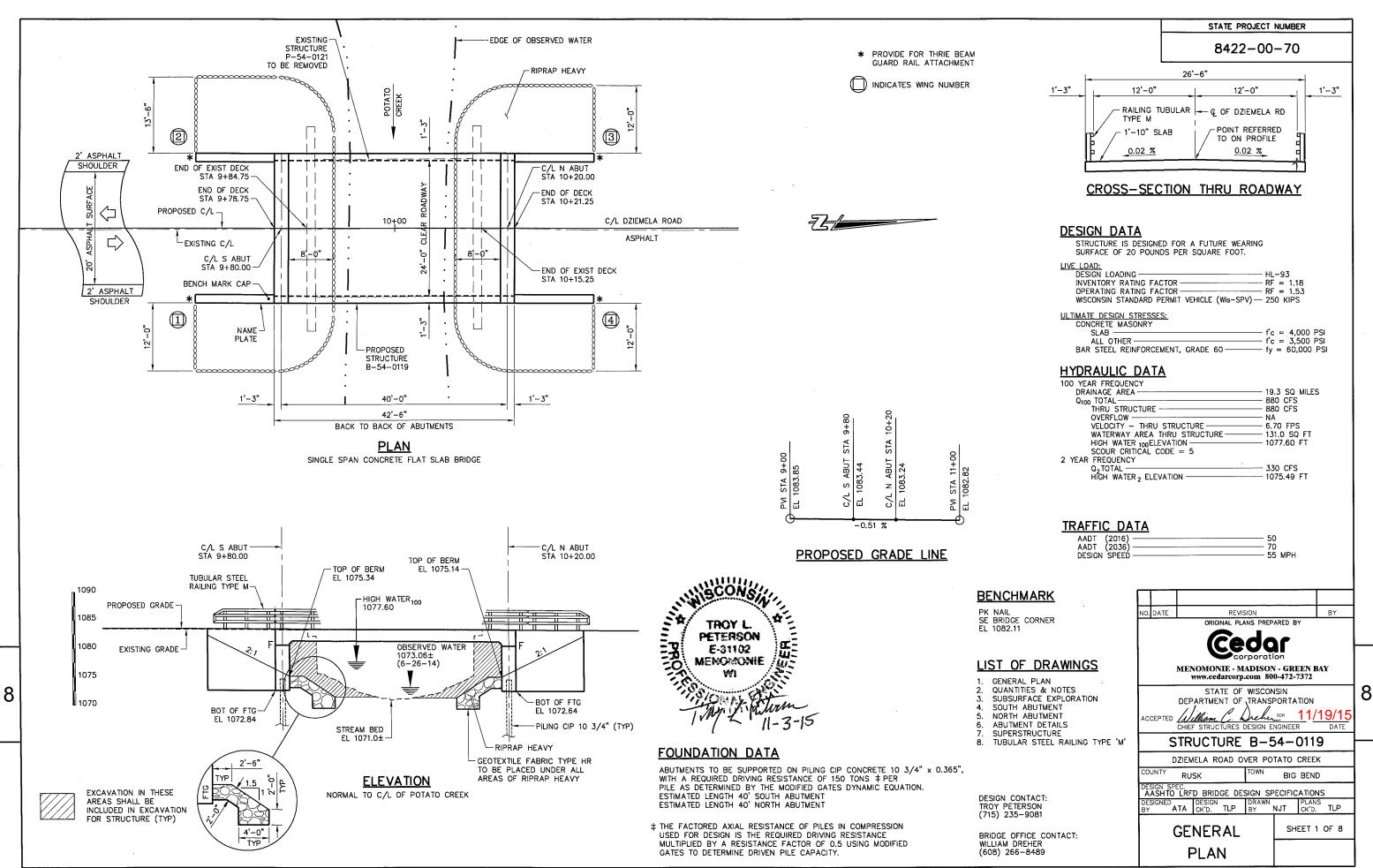
WISDOT/CADDS SHEET 42

PLOT SCALE: 99.237937:1.000000



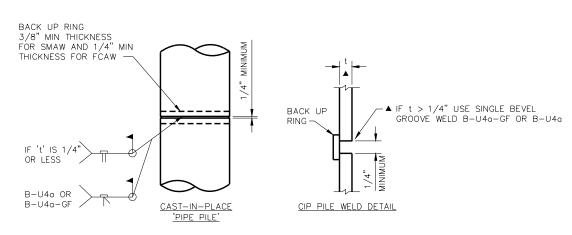






TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	S ABUT	N 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-54-0119	LS				1
210.0100	BACKFILL STRUCTURE	CY	50	50		100
502.0100	CONCRETE MASONRY BRIDGES	CY	45.2	45.2	80.6	171
502.3200	PROTECTIVE SURFACE TREATMENT	SY			150	150
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1730	1730		3460
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1880	1880	14460	18220
550.2106	PILING CIP CONCRETE 10 3/4 x 0.365-INCH	LF	200	200		400
513.4061	RAILING TUBULAR TYPE M STRUCTURE B-54-0119	LF			133	133
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	5	5		10
606.0300	RIPRAP HEAVY	CY	75	75		150
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80	80		160
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	140	135		275
	NON-BID ITEMS					
	FILLER	SIZE				1/2 & 3/4



PILE SPLICE DETAIL

STATE PROJECT NUMBER

8422-00-70

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 IN THE ABUTMENT DETAILS.

CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION.

THE EXISTING STRUCTURE (P-54-0121) IS A 30.5' LONG BY 24.0' CLEAR WIDTH SINGLE SPAN STEEL DECK GIRDER 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 BACKFILL STRUCTURE.

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

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

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

8

DATE REVISION BY

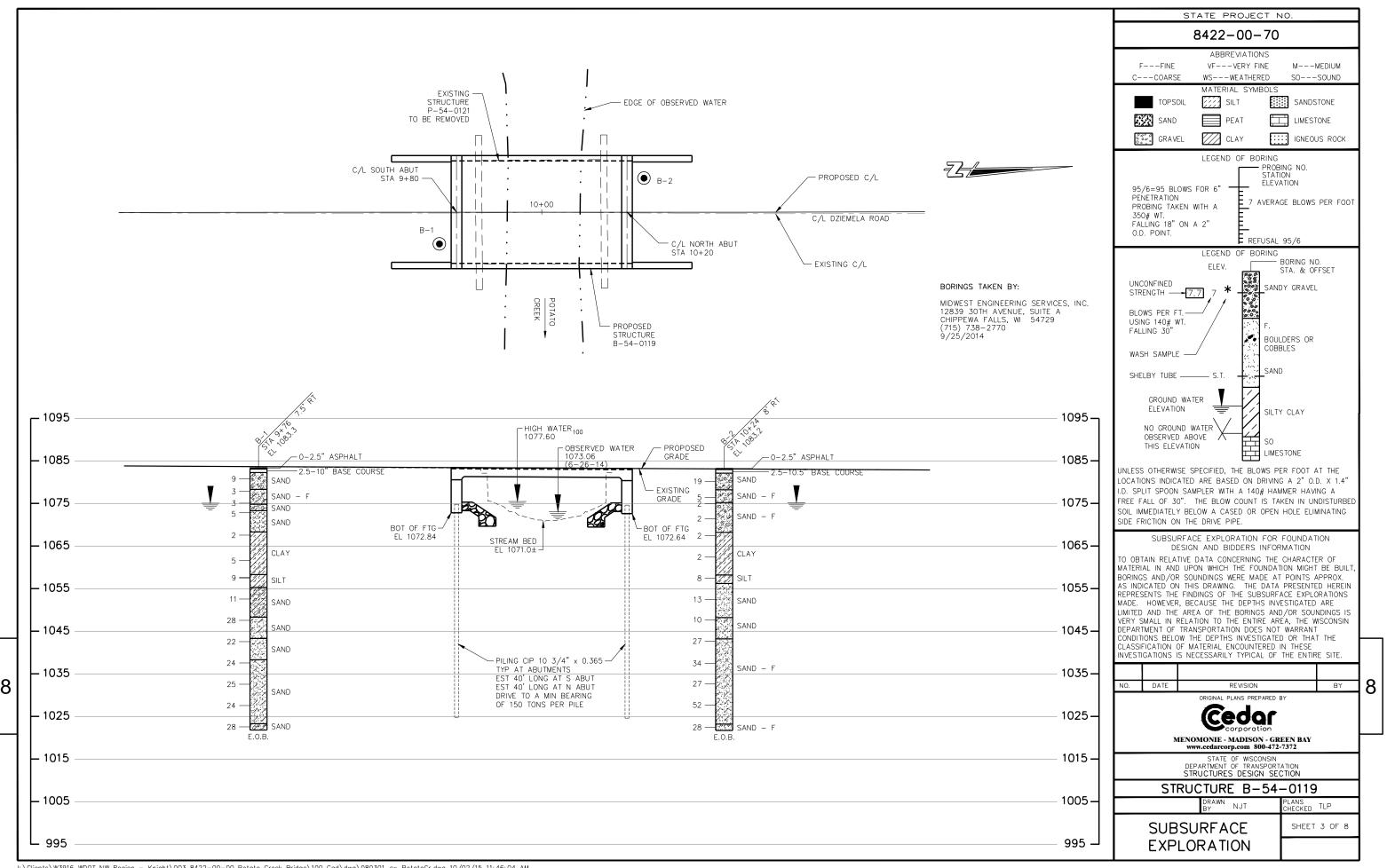
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-54-0119

| DRAWN NJT | PLANS | TLP

QUANTITIES & NOTES

SHEET 2 OF 8





8422-00-70

NOTE: BAR DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

1730 # UNCOATED 1880# COATED

BILL OF BARS

BAR MARK	CO47	NO REQUIRED	LENGTH	TAN STATE OF THE PARTY OF THE P	LOCATION
A401		5	28-0	Х	BODY - ONE PER PILE
A402		10	2-3		BODY - TWO PER PILE
A503		33	19-3	Х	BODY - STIRRUPS
A604		12	26-0		BODY - HORIZ FF
A805		7	26-0		BODY - HORIZ BF
A506	Х	25	2-0		BODY - VERT DOWELS
A607	Х	4	11-8		WING 1 & 2 - HORIZ TOP
A408	Х	12	11-8		WING 1 & 2 - HORIZ TOP
A609	Х	34	9-8	Х	WING 1 & 2 - VERT TOP
A510	Х	26	21-0	Х	WING 1 & 2 - VERT BASE
A511	Х	16	13-7		WING 1 & 2 BASE HORIZ FF
A612	Х	18	13-11		WING 1 & 2 BASE HORIZ BF

INDICATES WING NUMBER

- (A) 18" RUBBERIZED MEMBRANE WATERPROOFING (RMW) SEAL ALL HORIZ & VERT JOINTS ON BACKFACE
- B KEYED CONST JOINT FORMED BY BEVELED 2" x 6"
- © 1/2 " FILLER (INCLUDED IN WING LENGTH): SEAL EXPOSED HORIZ & VERT SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)
- D PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE TO 0.5% MIN TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT BOTH ENDS OF PIPE UNDERDRAIN (SEE DETAIL). RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

1,-3,-1	<u> </u>	3'-3"			© C FACE		1'-6"	2
<u>! -</u>	1'-0"			1'-0" TYP A506			1'-0"	
		-	13'-3"		13'-3"		-	
		BACK FACE 2'-6" BACK FACE 1'-3" 1'-0" TYP A506 1'-0" 1'-0"						
			<u>Pl</u>	<u> AN</u>		-1		

12 SPACES @ 9" = 9'-0" | 8 SPA. @ 1'-0" | 12 SPACES @ 9" = 9'-0"

= 8'-0" A503

ELEVATION

(LOOKING SOUTH)

C/L DZIEMELA ROAD

-EL 1080.86

A604 FF

EL 1083.24-

−EL 1083.17

-EL 1080.59

- EL 1072.84 LEVEL

EL 1083.17

EL 1080.59

8

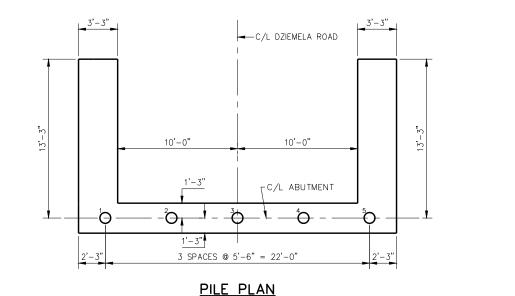
WING TIP -EL 1083.24

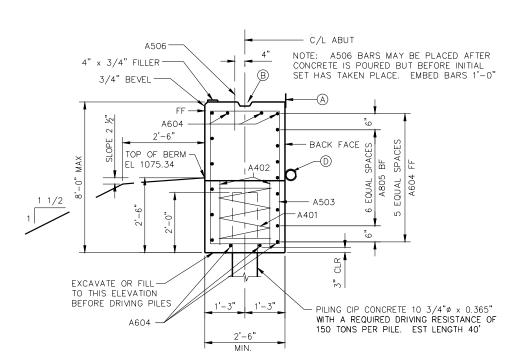
A506 —

NOTE: DISPLACE A503 BARS

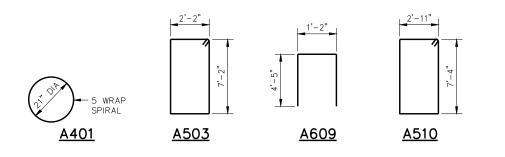
INTERFERING WITH PILING

1'-0"





SECTION THRU BODY



NOMINA NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL. SECTION B-B * DIMENSION IS APPROXIMATE. THE GRATE

IS SIZED TO FIT INTO A PIPE COUPLING.

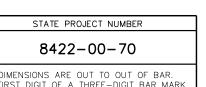
RODENT SHIELD

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION STRUCTURE B-54-0119 TLP SHEET 4 OF 8

8

SOUTH ABUTMENT



indicates wing number

BILL OF BARS

(A) 18" RUBBERIZED MEMBRANE WATERPROOFING (RMW)
SEAL ALL HORIZ & VERT JOINTS ON BACKFACE

B KEYED CONST JOINT FORMED BY BEVELED 2" x 6"

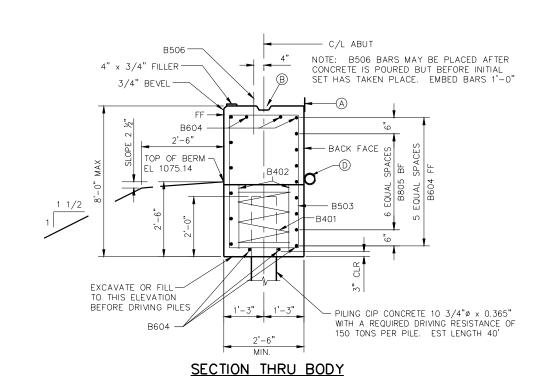
© 1/2 "FILLER (INCLUDED IN WING LENGTH): SEAL EXPOSED HORIZ & VERT SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)

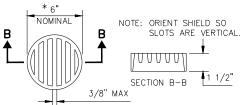
PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE TO 0.5% MIN TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT BOTH ENDS OF PIPE UNDERDRAIN (SEE DETAIL). RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

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1730 # UNCOATED 1880 # COATED

"			"		
BAR MARK	C047	NO REQUIRED	LENGTH	SEN.	LOCATION
B401		5	28-0	X	BODY - ONE PER PILE
B402		10	2-3		BODY - TWO PER PILE
B503		33	19-3	Х	BODY - STIRRUPS
B604		12	26-0		BODY - HORIZ FF
B805		7	26-0		BODY - HORIZ BF
B506	Х	25	2-0		BODY - VERT DOWELS
B607	Х	4	11-8		WING 3 & 4 - HORIZ TOP
B408	Х	12	11-8		WING 3 & 4 - HORIZ TOP
B609	Х	34	9-8	Х	WING 3 & 4 - VERT TOP
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B511	Х	16	13-7		WING 3 & 4 BASE HORIZ FF
B612	Х	18	13-11		WING 3 & 4 BASE HORIZ BF



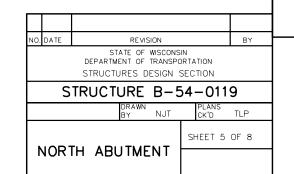


* DIMENSION IS APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

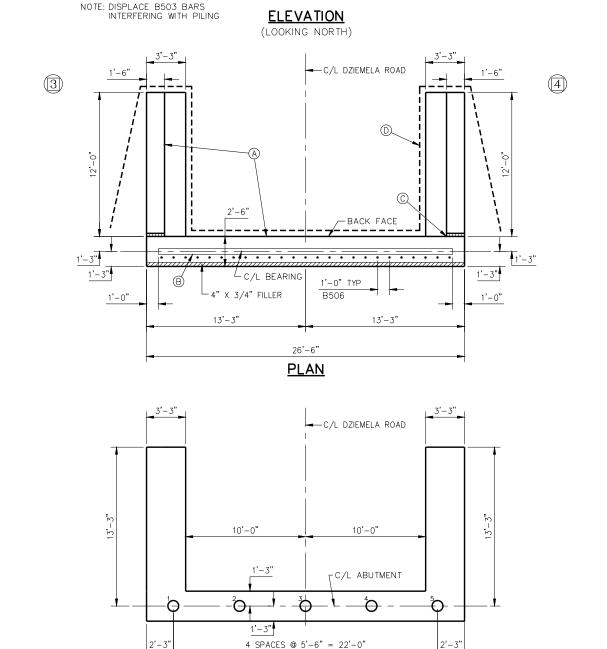
RODENT SHIELD

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1—INCH STAINLESS STEEL SHEET METAL SCREWS.

2'-2" 5 WRAP SPIRAL B503 B609 B510



8



PILE PLAN

C/L DZIEMELA ROAD

-EL 1080.65

B604 FF

12 SPACES @ 9" = 9'-0" | 8 SPA. @ 1'-0" | 12 SPACES @ 9" = 9'-0" |

= 8'-0" B503

EL 1082.90-

−EL 1082.97

-EL 1080.39

- EL 1072.64 LEVEL

4

EL 1082.97

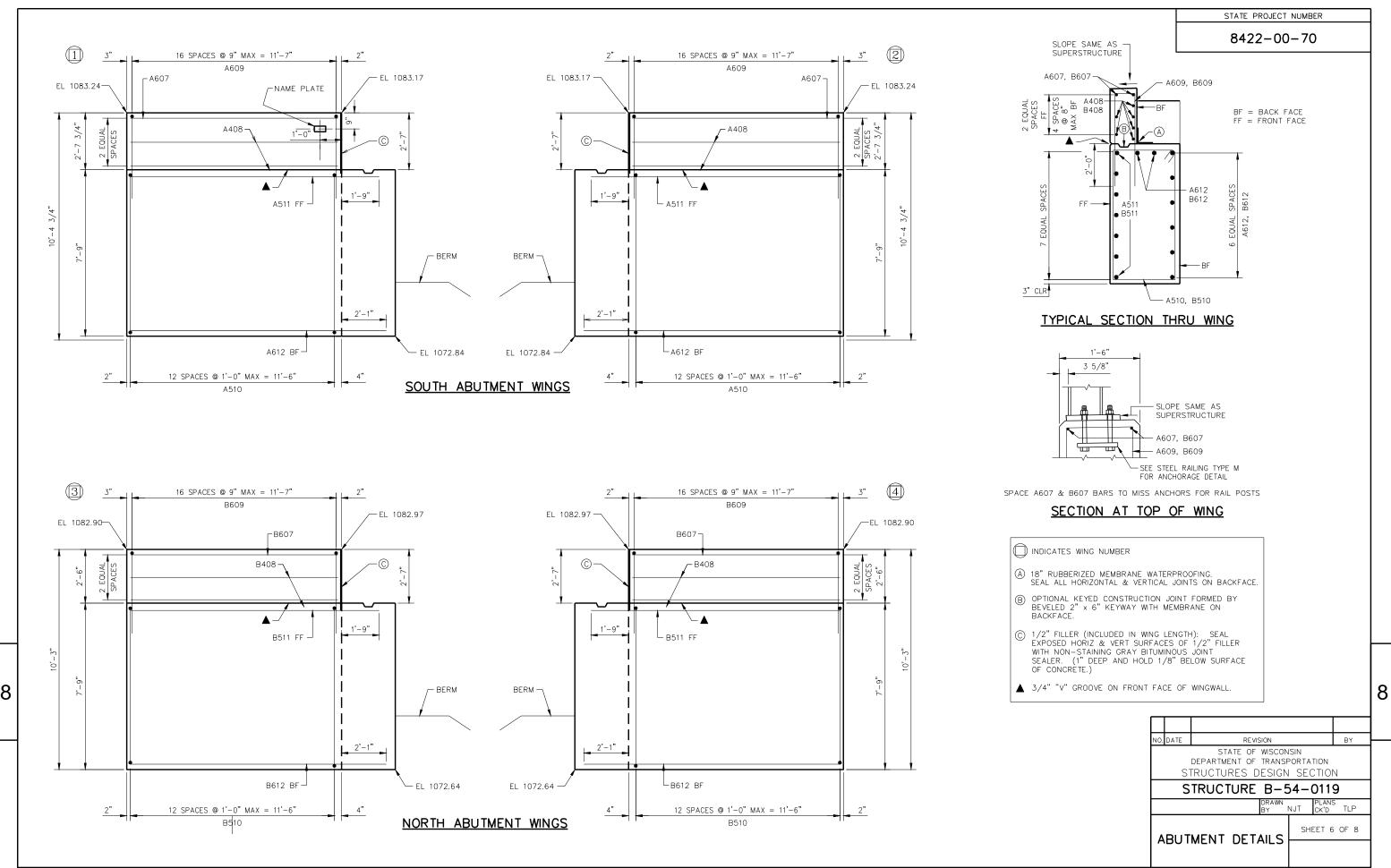
EL 1080.39

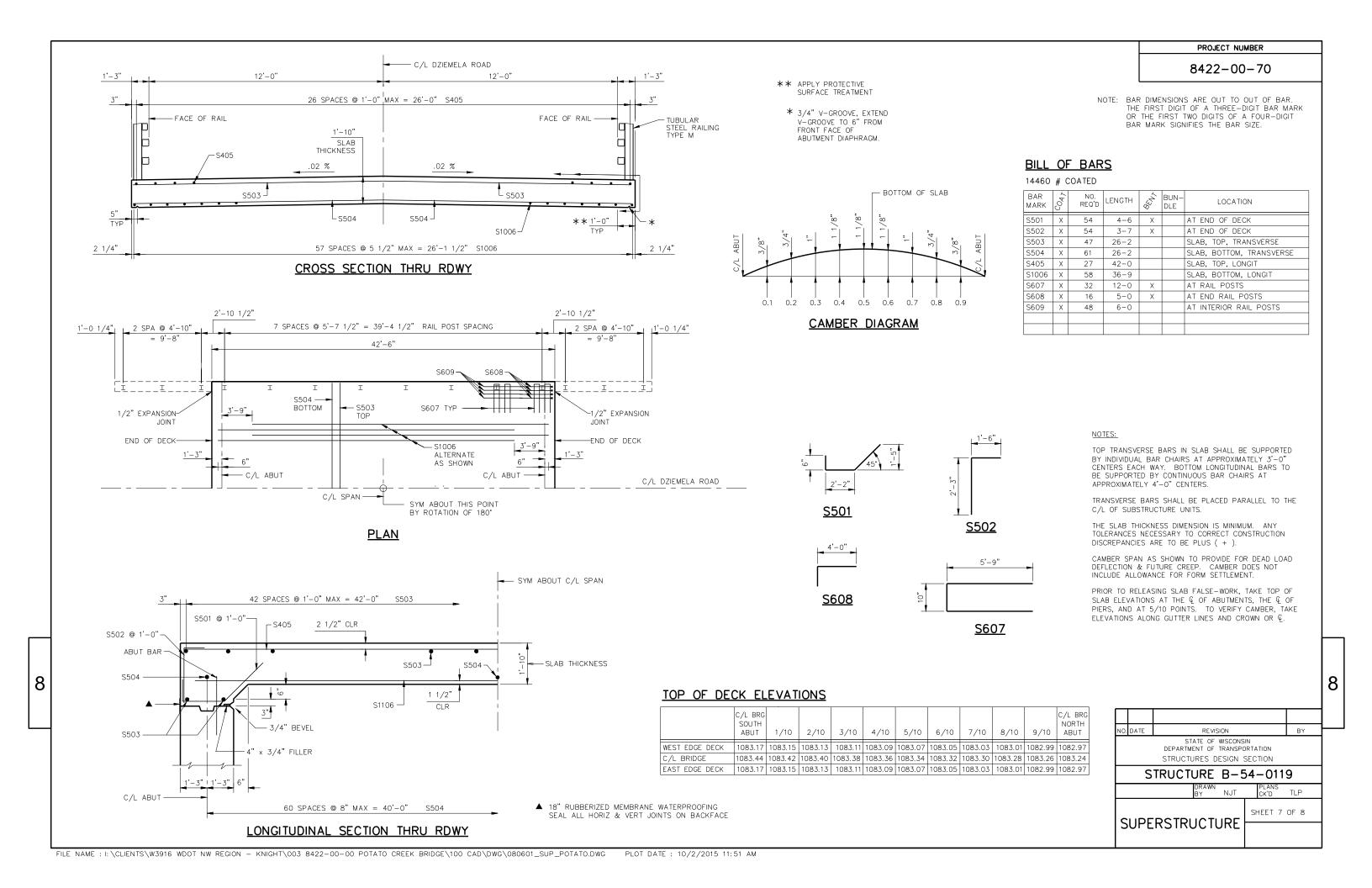
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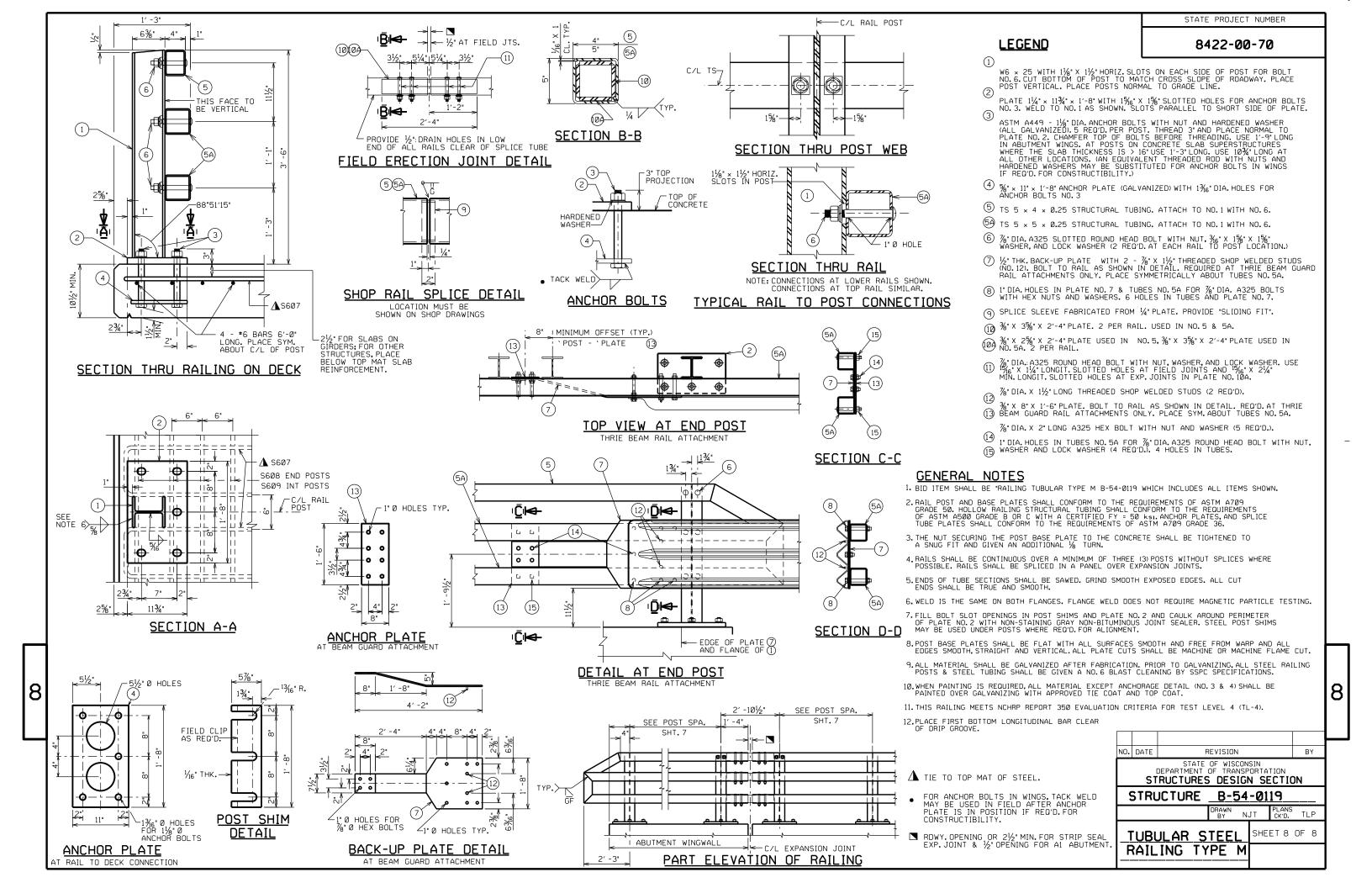
WING TIP

B506 -

-EL 1082.90







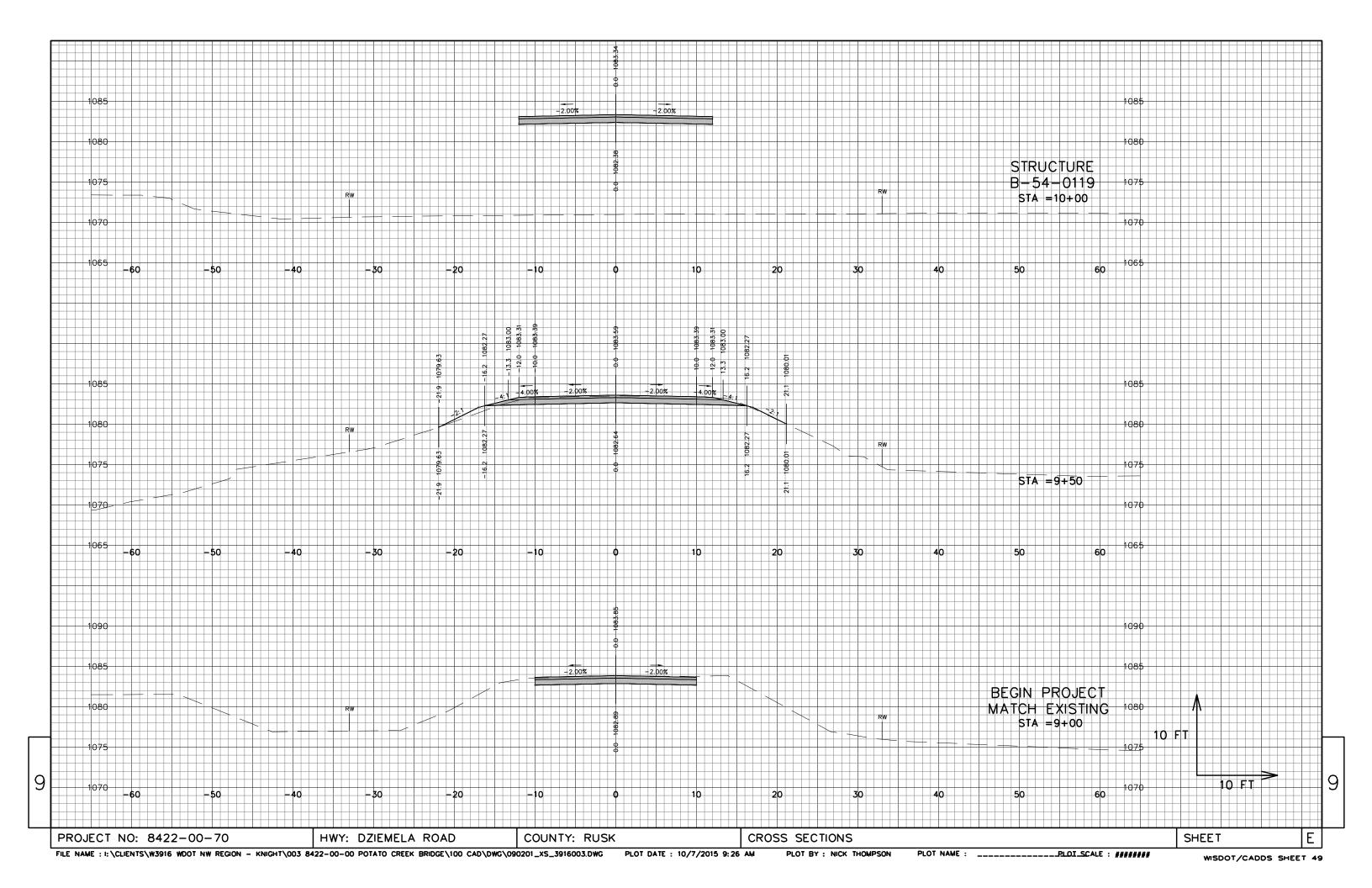
			AREA (SF)			INCREMENTAL V	OL (CY) - (UNADJU	JSTED)	CUMULATIVE VC		
STATION	REAL STATION	DISTANCE (FT)	СПТ	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
9+00	900	0	19.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9+50	950	50	24.6	4.6	3.0	40.6	8.5	2.8	32.1	3.5	28.6
9+79	979	29	24.6	4.6	3.0	26.4	4.9	3.2	53.6	7.5	46.1
						67.0	13.4	6.0			

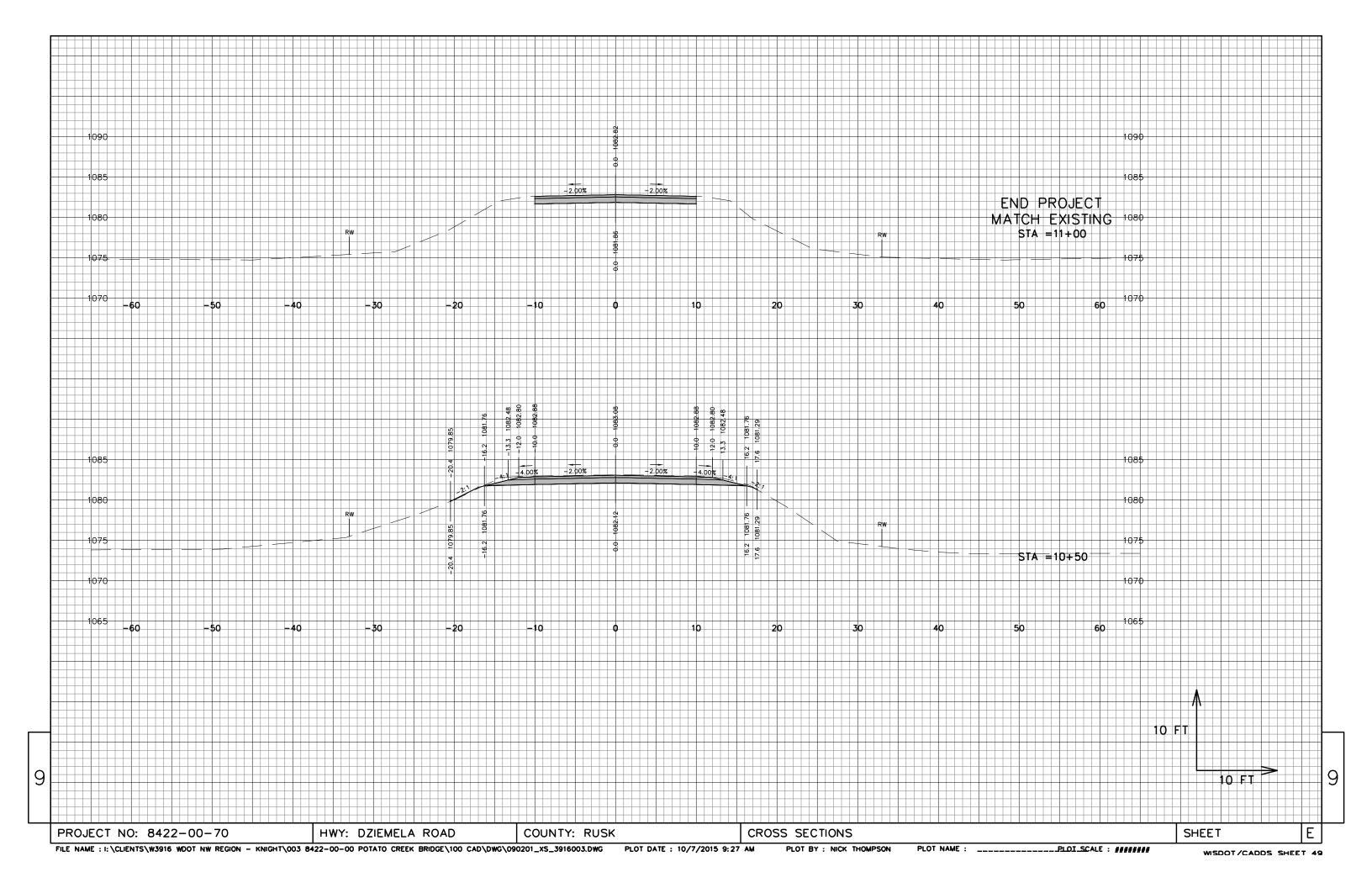
			AREA (SF)			INCREMENTAL V	OL (CY) - (UNADJU	JSTED)	CUMULATIVE VO		
STATION	REAL STATION	DISTANCE (FT)	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
10+21	1021	0	31.3	4.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
10+50	1050	29	31.3	4.6	0.3	33.6	4.9	0.3	28.7	0.4	28.3
11+00	1100	50	19.3	4.6	0.0	46.8	8.5	0.2	67.0	0.7	66.3
						80.4	13.4	0.5			

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

9

PROJECT NO: 8422-00-70 HWY: DZIEMELA ROAD COUNTY: RUSK EARTHWORK SHEET **E**







Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov