MARCH 2022 SUP STATE PROJECT STATE OF WISCONSIN ORDER OF SHEETS PROJECT ID: WITH: N/A Section No. DEPARTMENT OF TRANSPORTATION Typical Sections and Details (includes Erosion Control Plans) Estimate of Quantities PLAN OF PROPOSED IMPROVEMENT Miscellaneous Quantities Right of Way Plat Plan and Profile LAKE ROAD UNION, YELLOW 00 Standard Detail Organios YELLOW LAKE BRIDGE B070060 Computer Earthwork Data LOCAL STREET Section No. 9 Cross Sections 0 0 TOTAL SHEETS = 58 **BURNETT COUNTY** STATE PROJECT NUMBER BURNETT COUNTY 8377-00-70 R-17-W R-16-W PROJECT T-41-N T-40-N END PROJECT STA. 21+25 DESIGN DESIGNATION Y • 205699.28 X • 219335.31 A.A.D.T. (2020) STRUCTURE B-07-0060-475 A.A.D.T. (2040) D.H.V. 50/50 D. 11% Chase L DESIGN SPEED 20 MPH 44,000 ESALS CONVENTIONAL SYMBOLS PLAN 1////// CORPORATE LIMITS PROFILE GRADE LINE BEGIN PROJECT PROPERTY LINE Ø ORIGINAL GROUND LOT LINE STA. 18+40 MARSH OR ROCK PROFILE Y • 205421.22 X • 219343.39 刀 LIMITED HIGHWAY EASEMENT (To be noted as such) EXISTING RIGHT OF WAY __LABEL____ Z SPECIAL DITCH T-40-N PROPOSED OR NEW R/W LINE П T-39-N GRADE ELEVATION SLOPE INTERCEPT 0П CULVERT (Profile View) REFERENCE LINE UTILITIES EXISTING CULVERT PROPOSED CULVERT OVERHEAD (Box or Pice) ELECTRIC FIBER OPTIC COMBUSTIBLE FLUIDS LAYOUT SANITARY SEWER STORM SEWER HIGH VOLTAGE TELEPHONE CAUTTON HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), BURNETT COUNTY, NAOB3 (2011), IN U.S. TOTAL NET LENGTH OF CENTERLINE = 0.054 MI. SURVEY FEET, POSITIONS SHOWN ARE CRID COORDINATES, GRID BEARINGS AND MARSH AREA UTILITY PEDESTAL GRID DISTANCES, GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD88 (2012). GPS DERIVED ELEVATIONS POWER POLE Ē ARE BASED ON GEOID 12A. TELEPHONE POLE WOODED OR SHRUB AREA

ACCEPTED FOR ACCEPTED FOR ORIGINAL PLANS PREPARED BY TES 3433 Oakwood HiKs Parkwa Eau Claire, WI 54701 www.AyresAssociates.com SYDOW 10/13/2021 STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY AYRES ASSOCIATES INC Surveyor AYRES ASSOCIATES ONC Cestoner TYLER RONGSTAD, PE TOU YANG, PE TYLER RONGSTAD, PE APPROVED FOR THE DEPARTMENT Tyler Rongstad

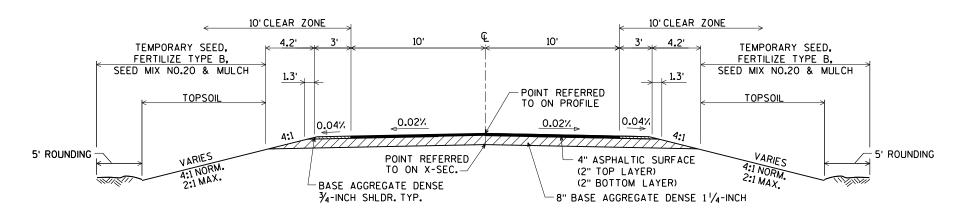
FEDERAL PROJECT

PROJECT

8377-00-70

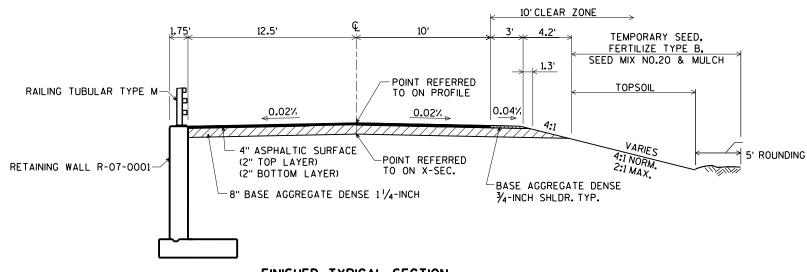
CONTRACT

EXISTING TYPICAL SECTION



FINISHED TYPICAL SECTION

(STATION 18+40 TO STATION 19+73.75) (STATION 20+26.25 TO STATION 21+25, RT) (STATION 20+75 TO STATION 21+25, LT)



FINISHED TYPICAL SECTION

(STATION 20+26.25 TO STATION 20+75, LT)

WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONTACT:

AMY CRONK
810 W MAPLE STREET
SPOONER, WI 54801
715-635-4229
715-320-3976
amy.cronk@wisconsin.gov

DESIGNER

AYRES ASSOCIATES
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: DANIEL N. SYDOW
715-834-3161
sydowd@AyresAssociates.com

COUNTY CONTACT:

BURNETT COUNTY HIGHWAY DEPARTMENT 8150 STATE ROAD 70 SIREN, WI 54872 ATTN: MICHAEL HOEFS 715-349-2285 mhoefs@burnettcounty.org

\$PLOT NA

GENERAL NOTES

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

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

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.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCLUSIVE OF THE ROADBED, SHALL BE FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR 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.

ASPHALTIC REMOVAL IS INCLUDED IN THE ITEM EXCAVATION COMMON.

TOPSOIL SHALL BE PLACED ON THE SLOPES, TO THE POINT OF INTERCEPT WITH THE ORIGINAL GROUND SHOWN ON THE CROSS SECTIONS.

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR WITH A MONUMENT TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD 88).

ASPHALT SURFACE SHALL USE 1/2" NOMINAL AGGREGATE SIZE.

WETLANDS EXIST IN THE PROJECT AREA. NO DISTURBANCE IS ALLOWED OUTSIDE THE SLOPE INTERCEPTS.

UTILITIES

NORTHWESTERN WI ELECTRIC COMPANY 104 SOUTH PINE STREET GRANTSBURG, WI 54840 ATTN: BILL COOPER 715-463-5371 BillCooperNWE@gmail.com LUMEN TECHNOLOGIES - COMMUNICATIONS 2426 75TH AVE OSCELOA, WI 54020 ATTN: MIKE VANDENBOS 715-294-2463 mike.vandenbos@lumen.com



Dial 811 or (800) 242-8511

www.DiggersHotline.com

walderak

PROJECT NO: 8377-00-70 HWY:

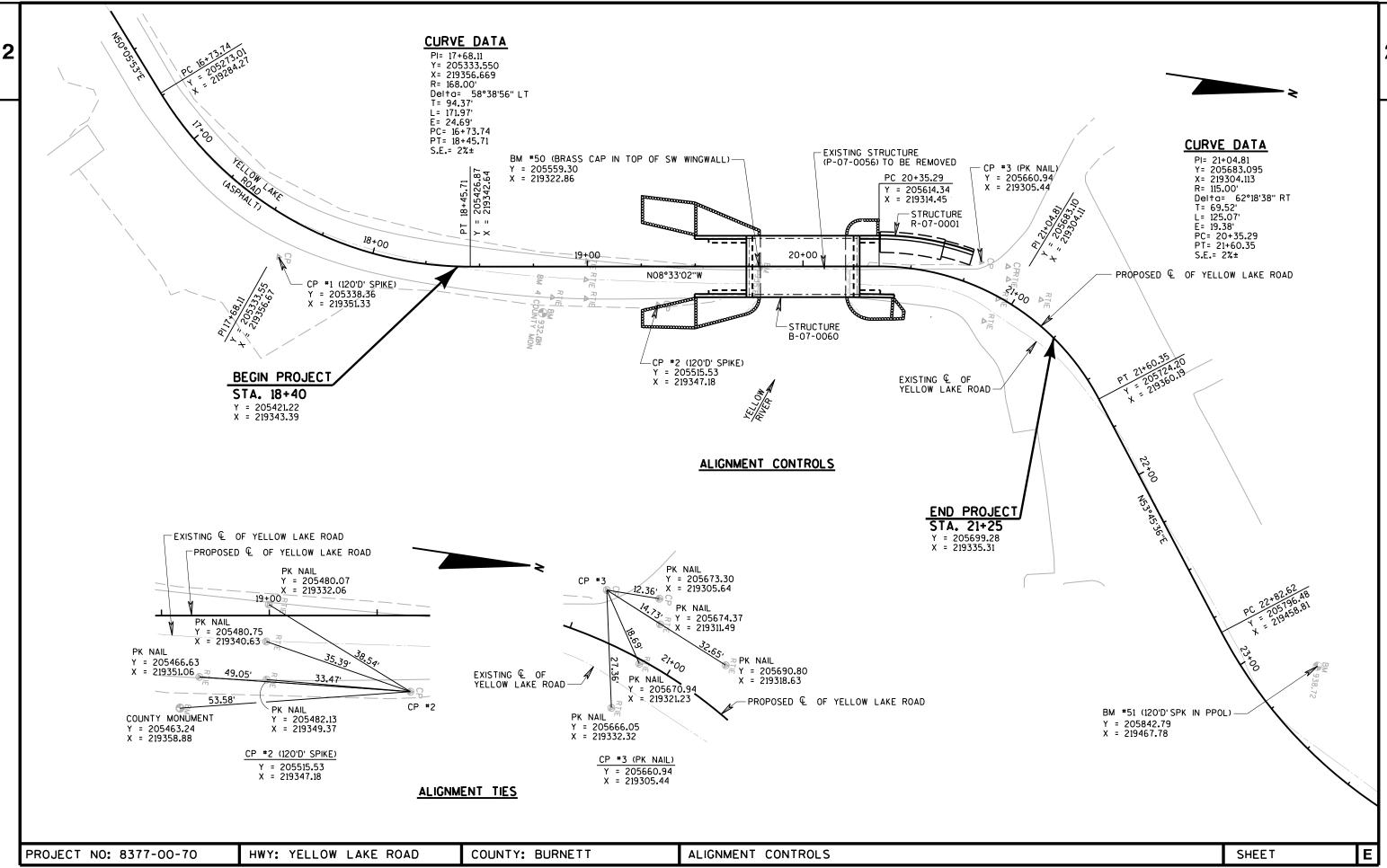
HWY: YELLOW LAKE ROAD

COUNTY: BURNETT

TYPICAL SECTIONS

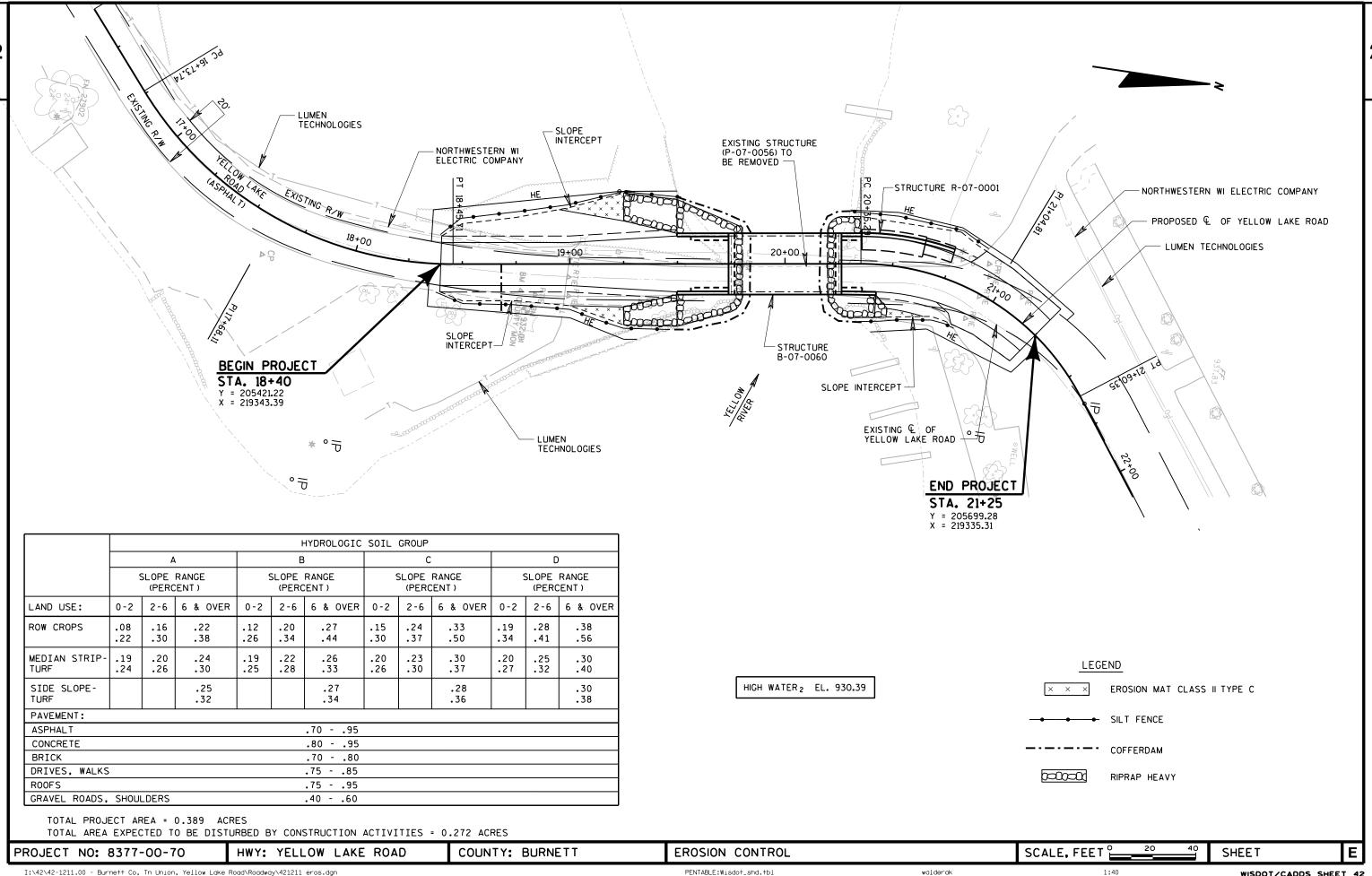
SHEET

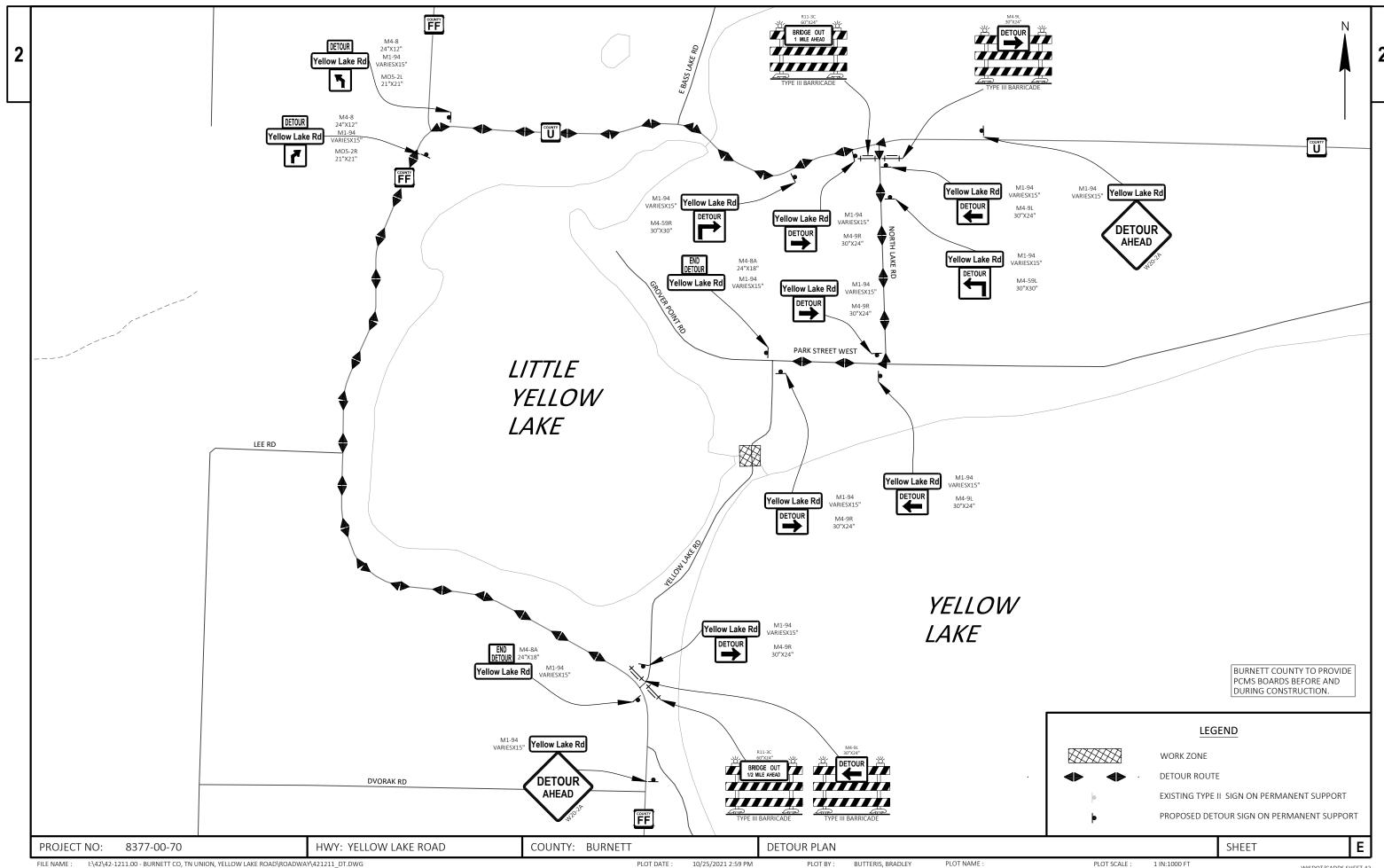
WISDOT/CADDS SHEET 42



walderak

SUPERELEVATION: -2.0% LT & RT -2.0% LT SUPERELEVATION DIAGRAM HWY: YELLOW LAKE ROAD COUNTY: BURNETT CONSTRUCTION DETAILS SHEET Е PROJECT NO: 8377-00-70 I:\42\42-1211.00 - Burnett Co, Tn Union, Yellow Lake Road\Roadway\421211_cd.dgn 10/22/2021 \$PLOT NA PENTABLE:Wisdot_shd.tbl walderak WISDOT/CADDS SHEET 42





LAYOUT NAME - Plan 1 IN 20 FT

PLOT DATE : PLOT BY: BUTTERIS, BRADLEY 10/25/2021 2:59 PM

WISDOT/CADDS SHEET 42

3 |

8377-00-7	0

Line Item Description Unit Total Cty 0002 201.0165 Clearing STA 3.000 3.000 0004 201.0205 Grubbing STA 3.000 3.000 0006 205.0100 Excavation Common CY 94.000 94.000 0101 206.1000 Excavation for Structures Bridges (structure) 01. B-07-60 LS 1.000 1.000 0102 206.3000 Excavation for Structures Relating Walls (structure) 01. R-07-01 LS 1.000 1.000 0104 206.5000 Cofferdams (structure) 01. B-07-60 LS 1.000 1.000 0106 208.0100 Borrow CY 377.000 377.000 0106 208.0101 Borrow CY 377.000 377.000 0108 209.0101 Baschill Structure Type A TON 810.00 1.000 0108 209.0101 Baschill Structure Type A TON 350.00 350.00 0102 213.0101 Baschill Structure Baschill Structure
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1018 210.1500 Backfill Structure Type A TON 810.000 810.000 1000
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0072 628.1520 Silt Fence Maintenance LF 890.000 890.000 0074 628.1905 Mobilizations Erosion Control EACH 4.000 4.000 0076 628.1910 Mobilizations Emergency Erosion Control EACH 4.000 4.000 0078 628.2027 Erosion Mat Class II Type C SY 50.000 50.000 0080 628.7504 Temporary Ditch Checks LF 50.000 50.000 0082 629.0210 Fertilizer Type B CWT 0.300 0.300 0084 630.0120 Seeding Mixture No. 20 LB 11.000 11.000 0086 630.0200 Seeding Temporary LB 11.000 11.000 0088 630.0300 Seeding Borrow Pit LB 3.000 3.000 0090 630.0500 Seed Water MGAL 10.000 7.000 0092 634.0614 Posts Wood 4x6-Inch X 14-FT EACH 7.000 7.000 0096 638.2602 Removing Signs Type II EA
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0094 637.2230 Signs Type II Reflective F SF 39.250 39.250 0096 638.2602 Removing Signs Type II EACH 7.000 7.000
0096 638.2602 Removing Signs Type II EACH 7.000 7.000
0098 638.3000 Removing Small Sign Supports EACH 5.000 5.000

Estimate Of Quantities Page

8377-00-70

Line	Item	Item Description	Unit	Total	Qty
0100	642.5001	Field Office Type B	EACH	1.000	1.000
0102	643.0420	Traffic Control Barricades Type III	DAY	1,760.000	1,760.000
0104	643.0705	Traffic Control Warning Lights Type A	DAY	2,880.000	2,880.000
0106	643.0900	Traffic Control Signs	DAY	3,840.000	3,840.000
0108	643.5000	Traffic Control	EACH	1.000	1.000
0110	645.0111	Geotextile Type DF Schedule A	SY	100.000	100.000
0112	645.0120	Geotextile Type HR	SY	310.000	310.000
0114	650.4500	Construction Staking Subgrade	LF	235.000	235.000
0116	650.5000	Construction Staking Base	LF	235.000	235.000
0118	650.6500	Construction Staking Structure Layout (structure) 01. B-07-60	LS	1.000	1.000
0120	650.6500	Construction Staking Structure Layout (structure) 02. R-07-1	LS	1.000	1.000
0122	650.9910	Construction Staking Supplemental Control (project) 01. 8377-00-70	LS	1.000	1.000
0124	650.9920	Construction Staking Slope Stakes	LF	235.000	235.000
0126	690.0150	Sawing Asphalt	LF	131.000	131.000
0128	715.0502	Incentive Strength Concrete Structures	DOL	1,740.000	1,740.000
0130	999.2005.S	Maintaining Bird Deterrent System (station) 01. 20+00	EACH	1.000	1.000
0132	SPV.0035	Special 01. Riprap Heavy Special	CY	160.000	160.000

3

CLEARING AND GRUBBING

				201.0105	201.0205
				CLEARING	GRUBBING
STATION	TO	STATION	OFFSET	STA	STA
18+40	-	21+25	LT & RT	3	3
TOTALS				3	3
	18+40	18+40 -	18+40 - 21+25	18+40 - 21+25 LT & RT	STATION TO STATION OFFSET STA 18+40 - 21+25 LT & RT 3

YELLOW LAKE ROAD EARTHWORK SUMMARY

From/To Station	Location	Excavation Common (1) (item # 205.0100) Cut	Salvaged / Unuseable Pavement Material (5)	-	Expanded Fill (2) Factor 1.30	Mass Ordinate +/- (3)	Waste	Borrow (item #208.0100)	Comment:
18+40 - 21+25	YELLOW LAKE ROAD	94	0	362	471	-377	0	377	

- 1) Excavation Common is the Cut. Item number 205.0100.
- 2) Expanded Fill. Factor = 1.30; Expanded Fill = Unexpanded Fill * Fill Factor
- 3) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material on the project.
- 4) All quantities shown in CY.
- 5) Existing existing salvaged/unuseable asphalt pavement.

PAVING AND BASE QUANTITIES

305.0120

455.0605

465.0105

305.0110

FINISHING RO	<u>ADWAY</u>				BASE AGGREGATE	BASE AGGREGATE	TACK	ASPHALTIC SURFACE
(ID 8377-00)-70 <u>)</u>				DENSE 3/4-INCH	DENSE 1 1/4-INCH	COAT	
-		STA	TO	STA	TON	TON	GAL	TON
	213.0100.01	18+40		19+73.75	20	190	23	90
LOCATION	EACH	20+26.25		21+25	5	145	23	70
YELLOW LAKE RD	1	UNDIST	rributi	ED	0	15	2	10
TOTAL	1	TOTALS			25	350	48	170

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8377-00-70 HWY:	Y: YELLOW LAKE ROAD	COUNTY: BURNETT	MISCELLANEOUS QUANTITIES	SHEET NO:	E
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J	

FENCE S	SAFETY
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MAINTENANCE AND REPAIR
OF HAUL ROADS
ID 8377-00-70

WATER

	616.0700.5
	FENCE SAFETY
LOCATION	LF
NORTH END OF PROJECT	225
TOTAL	225

	618.0100.01
CATEGORY	EACH
0030	1
TOTAL	1

	624.0100
PURPOSE	WATER
	MGAL
COMPACTION	6
DUST CONTROL	12
TOTAL	18

EROSION CONTROL ITEMS

				625.0100 TOPSOIL	627.0200 MULCHING	628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.2027 EROSION MAT CLASS II TYPE C	629.0210 FERTILIZER TYPE B	630.0120 SEEDING MIXTURE NO. 20	630.0200 SEEDING TEMPORARY	630.0300 SEEDING BORROW PIT	630.0500 SEED WATER
STA	TO	STA	LOCATION	SY	SY	LF	LF	SY	CWT	LB	LB	LB	MGAL
18+40		19+73.75	RT	20	60	115	230	10	0.0	2	2	າ	2
18+40		19+73.75	LT	70	95	120	240	25	0.1	3	3	Z	3
20+26.25		21+25	RT	5	40	50	100	5	0.0	1	1	0	1
20+26.25		21+25	LT	40	85	70	140	0	0.1	2	2	U	2
UNDI	STRIE	BUTED		35	70	90	180	10	0.1	2	2	1	2
TOTALS				170	350	445	890	50	0.3	11	11	3	10

EROSION CONTROL MOBILIZATION ITEMS

	628.1905	628.1910
	MOBILIZATIONS	MOBILIZATIONS
	EROSION	EMERGENCY
	CONTROL	EROSION
		CONTROL
LOCATION	EACH	EACH
ID 8377-00-70	4	4
TOTALS	4	4

TEMPORARY DITCH CHECKS

	628.7504
LOCATION	LF
UNDISTRIBUTED	50
TOTAL	50

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8377-00-70 HWY:	Y: YELLOW LAKE ROAD	COUNTY: BURNETT	MISCELLANEOUS QUANTITIES	SHEET NO:	E
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3

<u>SIGNAGE</u>

638.2602

638.3000

637.2230

634.0614

7

		POSTS WOOD 4X6-INCH X 14-FT	SIGNS TYPE II REFLECTIVE F	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN	
					SUPPORTS	
STATION	LOCATION	EACH	SF	EACH	EACH	SIGNAGE TYPE
18+50	RT	1	9			W1-1R (ROAD TURNS RIGHT)
18+50	RT		2.25			W13-1 (15 MPH)
18+68	RT			1	1	W5-3 (ONE LANE BRIDGE)
19+48	LT	1	3			W5-52L (BRIDGE HASH MARKS)
19+48	RT	1	3			W5-52R (BRIDGE HASH MARKS)
19+78	RT			1		R12-1 (WEIGHT LIMIT 25 TONS)
19+78	LT			1	1	W5-52L (BRIDGE HASH MARKS)
19+78	RT			1	1	W5-52R (BRIDGE HASH MARKS)
20+22	LT			1		R12-1 (WEIGHT LIMIT 25 TONS)
20+22	LT			1	1	W5-52R (BRIDGE HASH MARKS)
20+22	RT			1	1	W5-52L (BRIDGE HASH MARKS)
20+44	RT	1	3			W5-52L (BRIDGE HASH MARKS)
20+73	LT	1	8			W1-6 (ONE-DIRECTION LARGE
20+76	LT	1	3			W5-52R (BRIDGE HASH MARKS)
20+77	LT	1	8			W1-6 (ONE-DIRECTION LARGE

TRAFFIC CONTROL ITEMS

FIELD OFFIC	E TYPE B			DURATION	BARRI	0420 CADES PE III	WARNI	3.0705 NG LIGHTS 'PE A		.0900 GNS
	642.5001	_	LOCATION	DAYS	NO.	DAY	NO.	DAY	NO.	DAY
CATEGORY	EACH		PER SDD 15C2	80	22	1,760	36	2,880	18	1,440
0010	1		PER DETOUR PLAN	80					30	2,400
TOTAL	1		TOTALS			1,760		2,880		3,840

39.25 7 5

TRAFFIC CONTROL PLACEMENT SUBJECT TO ENGINEER APPROVAL

II	ALL QUANTITIES CATEGORY 0010 UN	ILESS OTHERWISE NOTED
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TOTALS

PROJECT NO: 8377-00-70 HWY:	Y: YELLOW LAKE ROAD	COUNTY: BURNETT	MISCELLANEOUS QUANTITIES	SHEET NO:	E
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STAKING ITEMS

		650.4500	650.5000	650.6500.01	650.9910.01	650.9920
		CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION STAKING	CONSTRUCTION
		STAKING	STAKING	STAKING	SUPPLEMENTAL CONTROL	STAKING
		SUBGRADE	BASE	STRUCTURE LAYOUT	(ID 8377-00-70)	SLOPE
				(B-7-60)		STAKES
CATEGORY	LOCATION	LF	LF	LS	LS	LF
0010	18+40 - 21+25	235	235		1	235
0020	B-7-60			1		
TOTALS		235	235	1	1	235

SAWING ASPHALT

690.0150

	STATION	LOCATION	LF
•	18+40	LT & RT	20
	20+87 - 21+25	LT	44
	20+87 - 21+25	RT	33
	21+25	LT & RT	34
	TOTAL		131

MAINTAINING BIRD DETERRENT SYSTEM

999.2005.S

MAINTAINING BIRD DETERRENT

SYSTEM

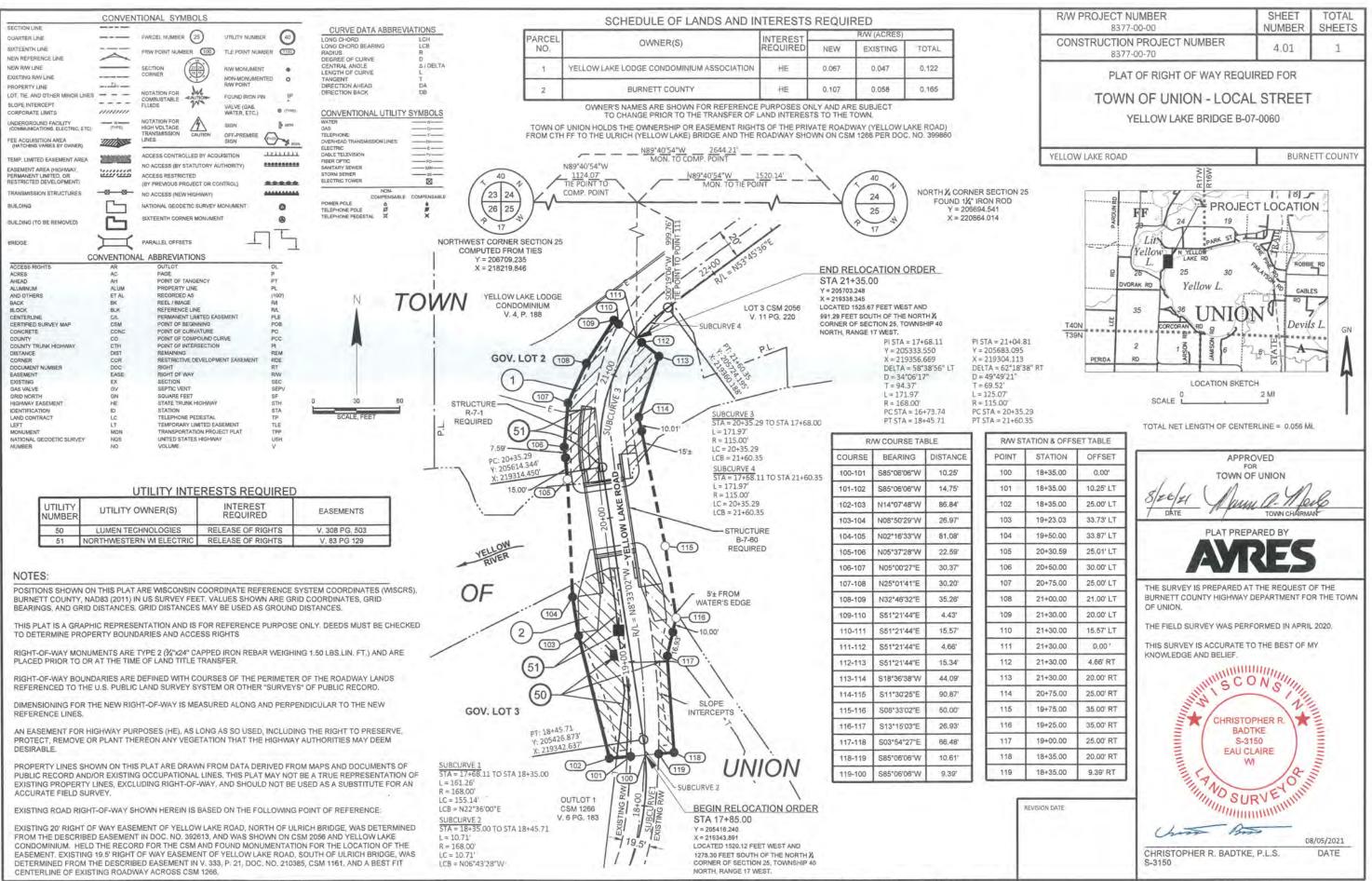
CATEGORY STATION EACH

0010 20+00 1

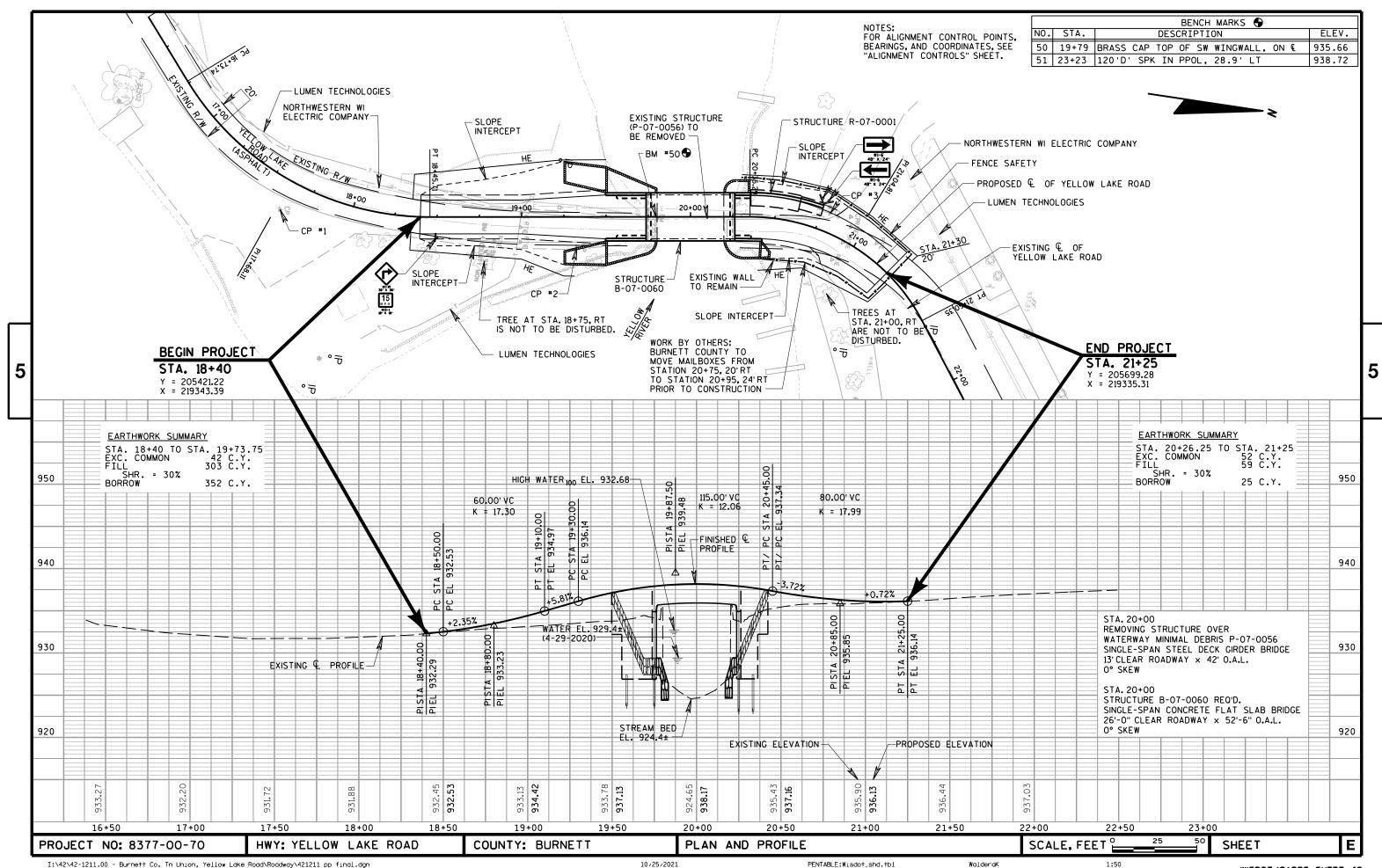
TOTAL 0010 1

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

L	PROJECT NO: 8377-00-70	HWY: YELLOW LAKE ROAD	COUNTY: BURNETT	MISCELLANEOUS QUANTITIES	SHEET NO:	الك	



PLOT BY : BADTKE, CHRISTOPHER



Standard Detail Drawing List

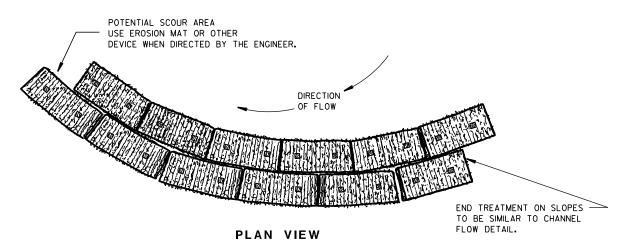
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

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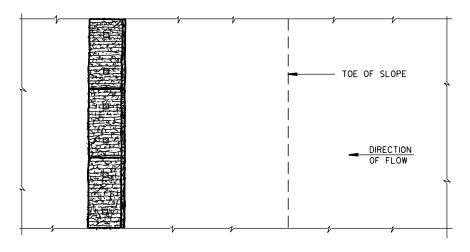
GENERAL NOTES

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.

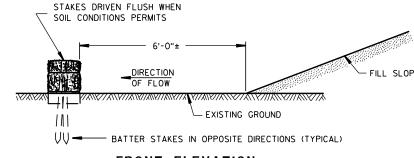
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



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D.D. 8 E 9-6





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.
- 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

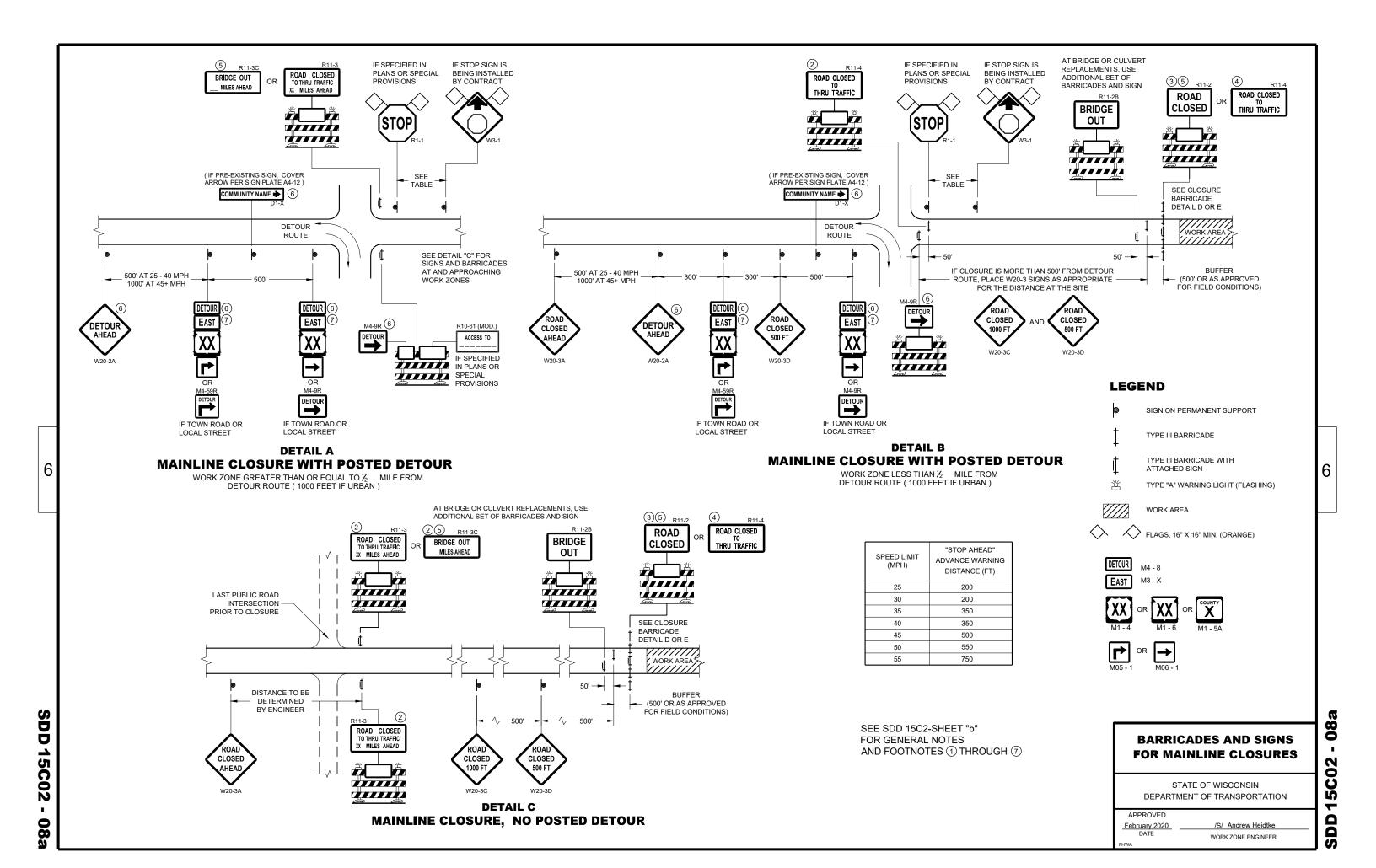
APPROVED

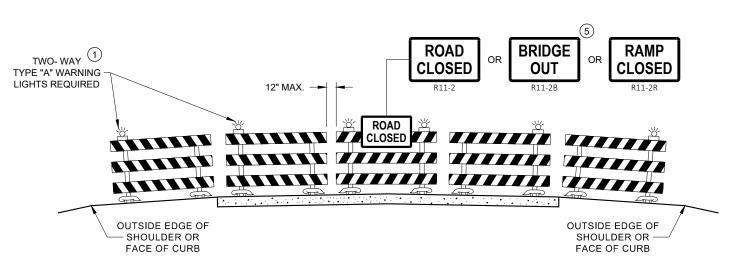
3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

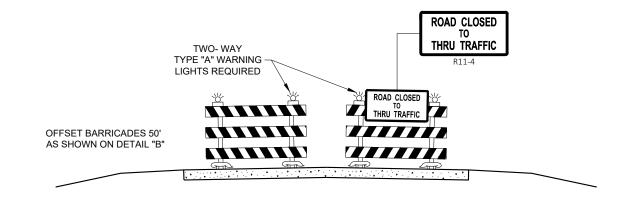
.D.D. 12 A

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 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 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 WITHOUT 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 SIGNS AS SHOWN.
- (7) "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

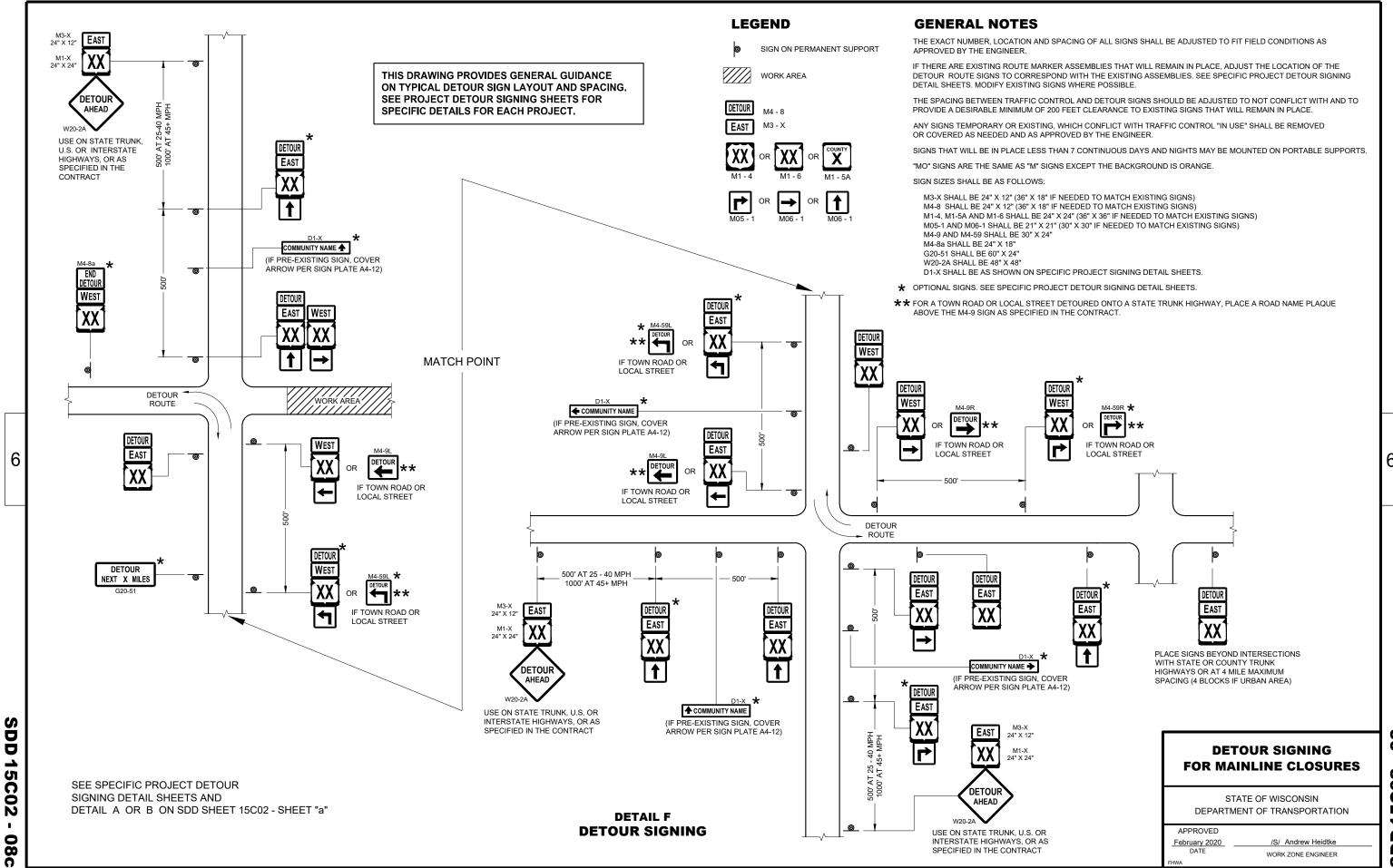
APPROVED

February 2020
DATE

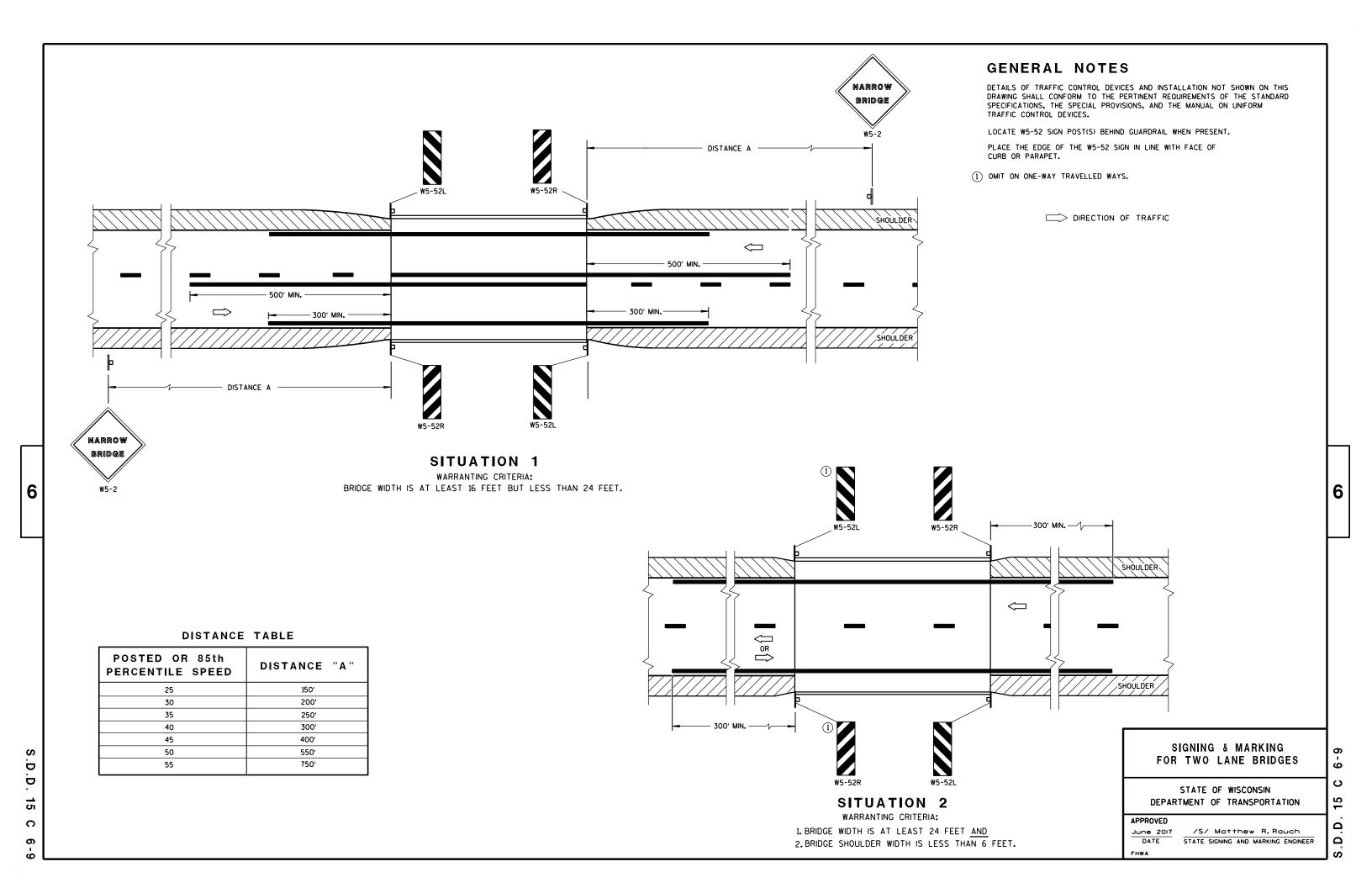
/S/ Andrew Heidtke
WORK ZONE ENGINEER

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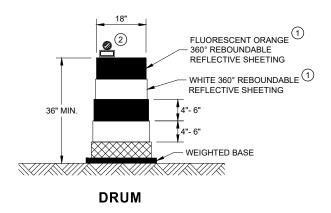


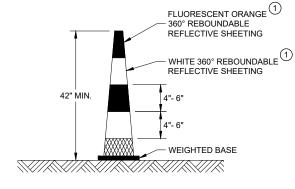
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GENERAL NOTES

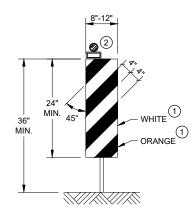
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



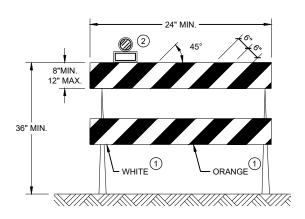


½ SPACING OF DRUMS



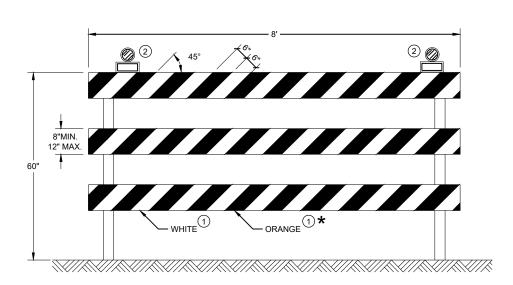


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

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



TYPE III BARRICADE

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

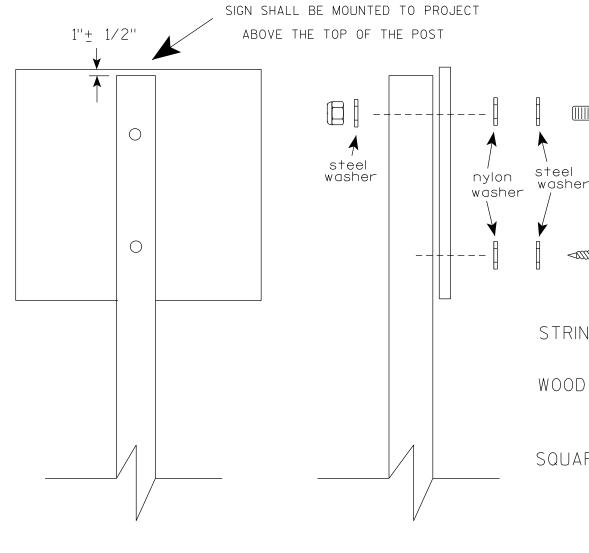
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION <u>60</u>

15C

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



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 - 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

≠or State Traffic Engineer

PLATE NO. __A4-8.9 DATE 4/1/2020

SHEET NO:

PROJECT NO: 8377-00-70

HWY: YELLOW LAKE ROAD

COUNTY: BURNETT

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

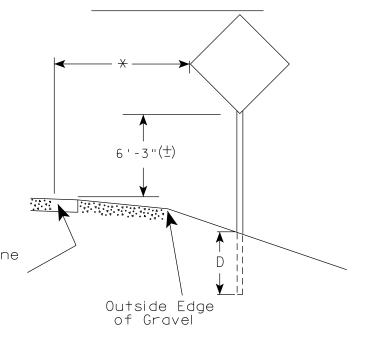
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2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). 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'' ($\frac{+}{-}$).

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3'' (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is $5' - 3'' \stackrel{(\pm)}{.}$
- 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) 7'-3"(士) ** Curb Flowline. White Edgeline Location



2' Min - 4' Max (See Note 6) 6'-3"(±) ** Curb Flowline D

5'-3"(士) White Edgeline $D \parallel$ Location Outside Edge of Gravel

** 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.

* 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.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 5/13/2020

PROJECT NO: 8377-00-70

HWY: YELLOW LAKE ROAD

COUNTY: BURNETT

PLOT DATE: 13-MAY 2020 1:04

PLOT NAME :

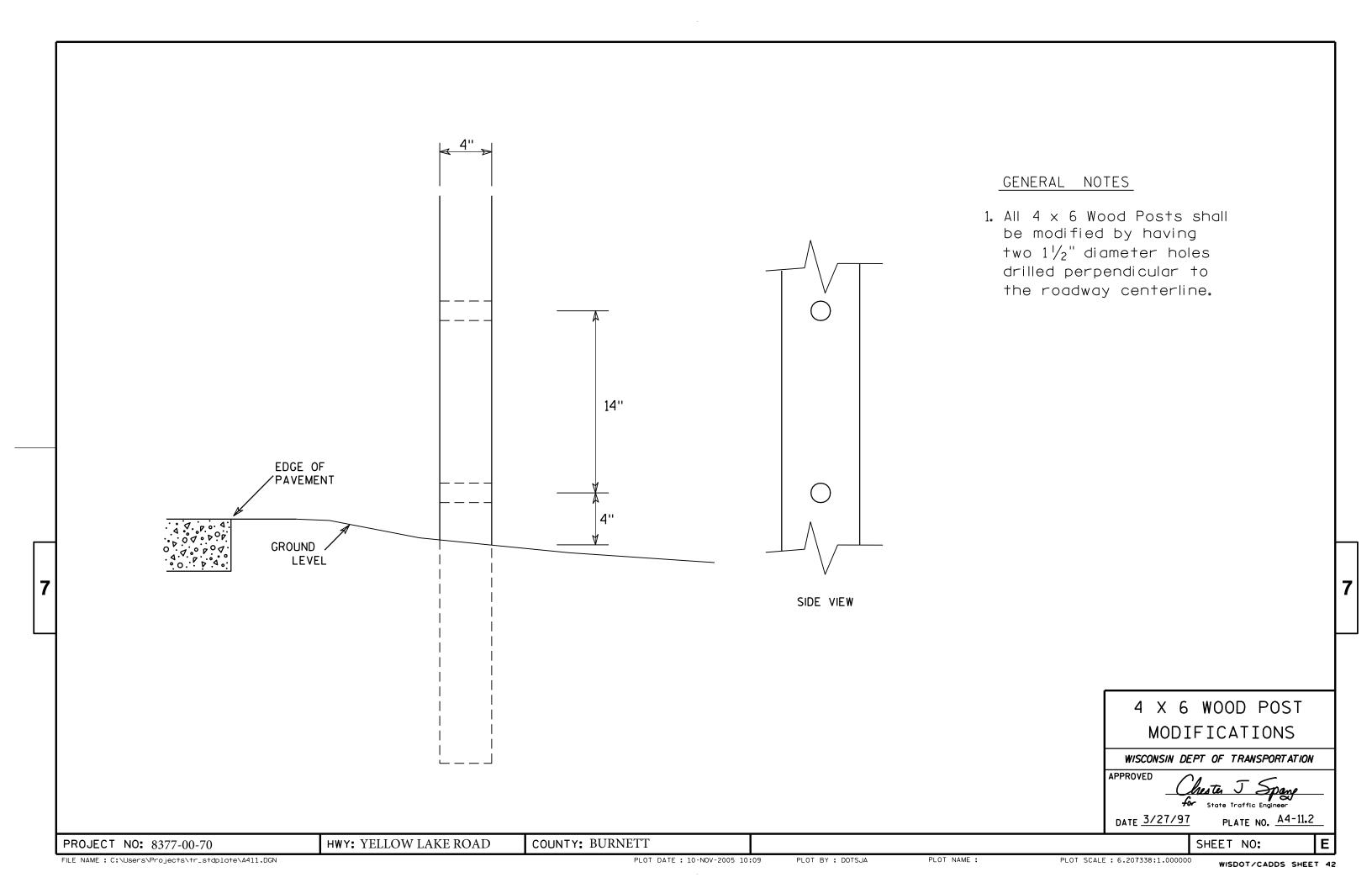
SHEET NO:

Ε

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

PLOT BY: mscj9h

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



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. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

SIZE	Α	В	3	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Area sq. ft.
1	24			1 1/8	3∕8	1/2		3	3 1/2	7 3/4	5	2 1/2	₹ /8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
25	36			1 %	5∕8	3/4		4 1/2	5 1/4	11 %	7 1/2	3 %	1 1/4	6	₹4	10 1/2	14 1/4		1	4 1/8								9.0
2M	36			1 %	5∕8	3/4		4 1/2	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
3	36			1	5∕8	3/4		4 1/2	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
4	48			2 1/4	3/4	1		6	7	15 1/2	10	4 1/8	1 %	8	1	14	19		1 1/4	6 1/2								16.0
5	48			2 1/4	₹4	1		6	7	15 1/2	10	4 %	1 %	8	1	14	19		1 1/4	6 1/2								16.0

COUNTY: BURNETT

HWY: YELLOW LAKE ROAD

STANDARD SIGN W1 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer DATE 5/15/12

PLATE NO. W1-1.11

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W11.DGN

PROJECT NO: 8377-00-70

PLOT DATE: 15-MAY-2012 13:47

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 7.939035:1.000000

WISDOT/CADDS SHEET 42

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. 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.

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	<u></u>
W1-6	

HWY: YELLOW LAKE ROAD

SIZE	Α		В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	36	. 1	18	1 1/8	3∕8	3/8		9	10	¾	5 %	4 3/4	2 3/8	14 %	29 1/4													4.5
25	48	2	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 ½	3 1/4	19 1/2	39													8.0
2M	48	2	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60) 3	30	1 3/8	1/2	5/8		15	16 1/4 1	l 1/4	9 1/4	8	4	24 %	48 ¾													12.5
4	60) 3	30	1 3/8	1/2	5/8		15	16 1/4 1	l 1/4	9 1/4	8	4	24 %	48 ¾													12.5
5	96	. 4	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

COUNTY: BURNETT

STANDARD SIGN W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED M

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

SHEET NO:

FILE NAME: C:\Users\PROJECTS\tr_stdplate\W16.DGN

PROJECT NO: 8377-00-70

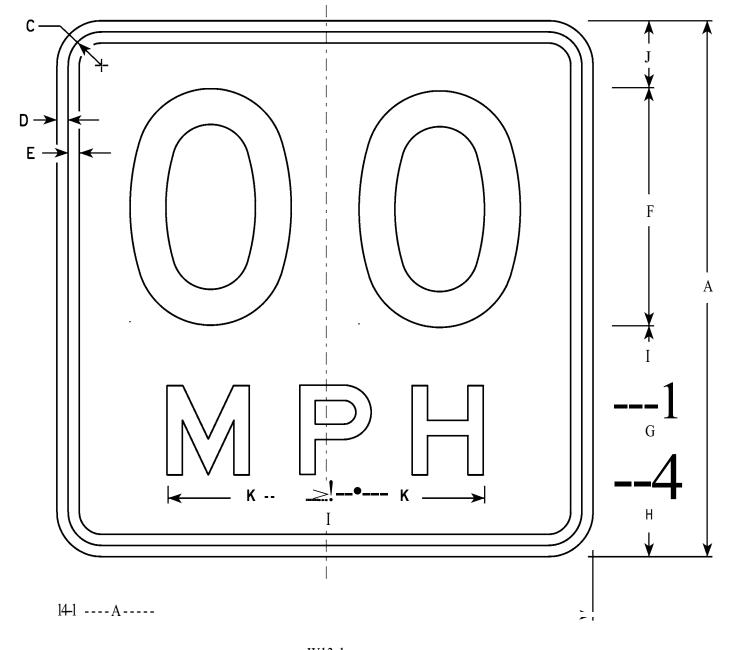
PLOT DATE: 07-JUN-2010 10:37

PLOT NAME :

PLOT BY : ditjph

PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42



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 See Note 6
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

W13-1
For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

HWY: YELLOW LAKE ROAD

	SIZE	A	В	С	D	Е	F	G	Н	I	J	K	L	M	N	0	p	0	R	S	T	u	V	W	X	у	Z	fl.
*	1	18		1 Va	%	%	8	3	2 1	2	2 114	5%																2.25
ا ا	2S I	18		1 Va	%	%	8	3	2 %	2	2 114	5%																2.25
'	2M	18		1 Va	%	%	8	3	2 <i>Y</i>	2	2 114	5%																2.25
	3	24		1 Va	%	!h	10	4	4	2 <i>Y</i>	3 114	6%																4.00
	4	36		1%	%	<i>Y</i>	16	6	s !h	4	4 V2	10 %																9.00
	5	36		1%	%	<i>r.</i> .	16	6	s V2	4	4 V2	10 %																9.00

COUNTY: BURNETT

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTAT/ON

APPROVED

for State Traffic Engl,,..,.

DATE <u>5/31/12</u>

SHEET NO: W13-1.16

FILE NAME : C:\CAEFIIes\Projects\trstdplote\W131.DGN

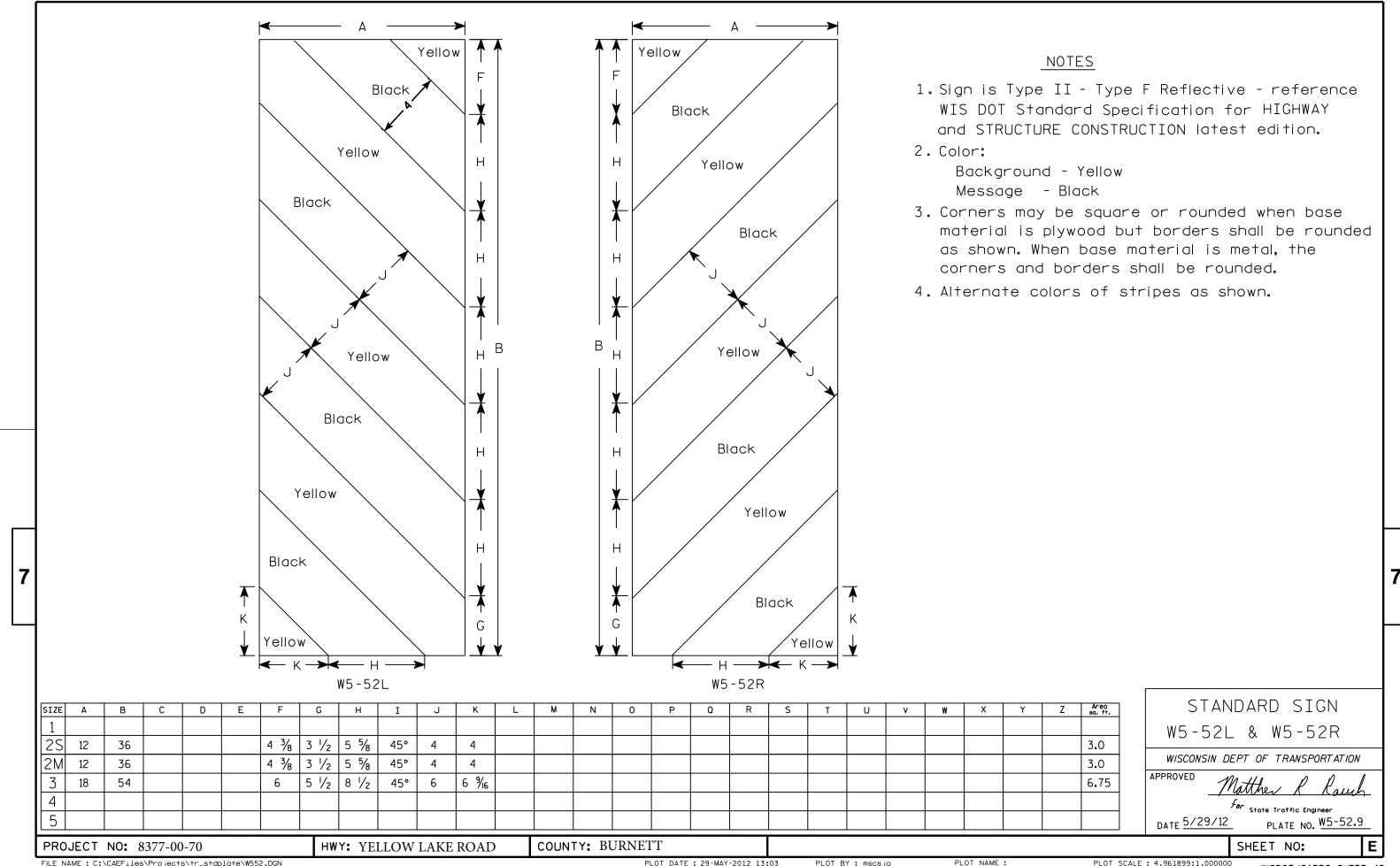
PROJECT NO: 8377-00-70

PLOT DATE: 31-MAY-2012 10:57

PLOT BY: mscsjo

PLOT SCALE : 3.225232:1.000000

WISDOT/CADDS SHEET ,42



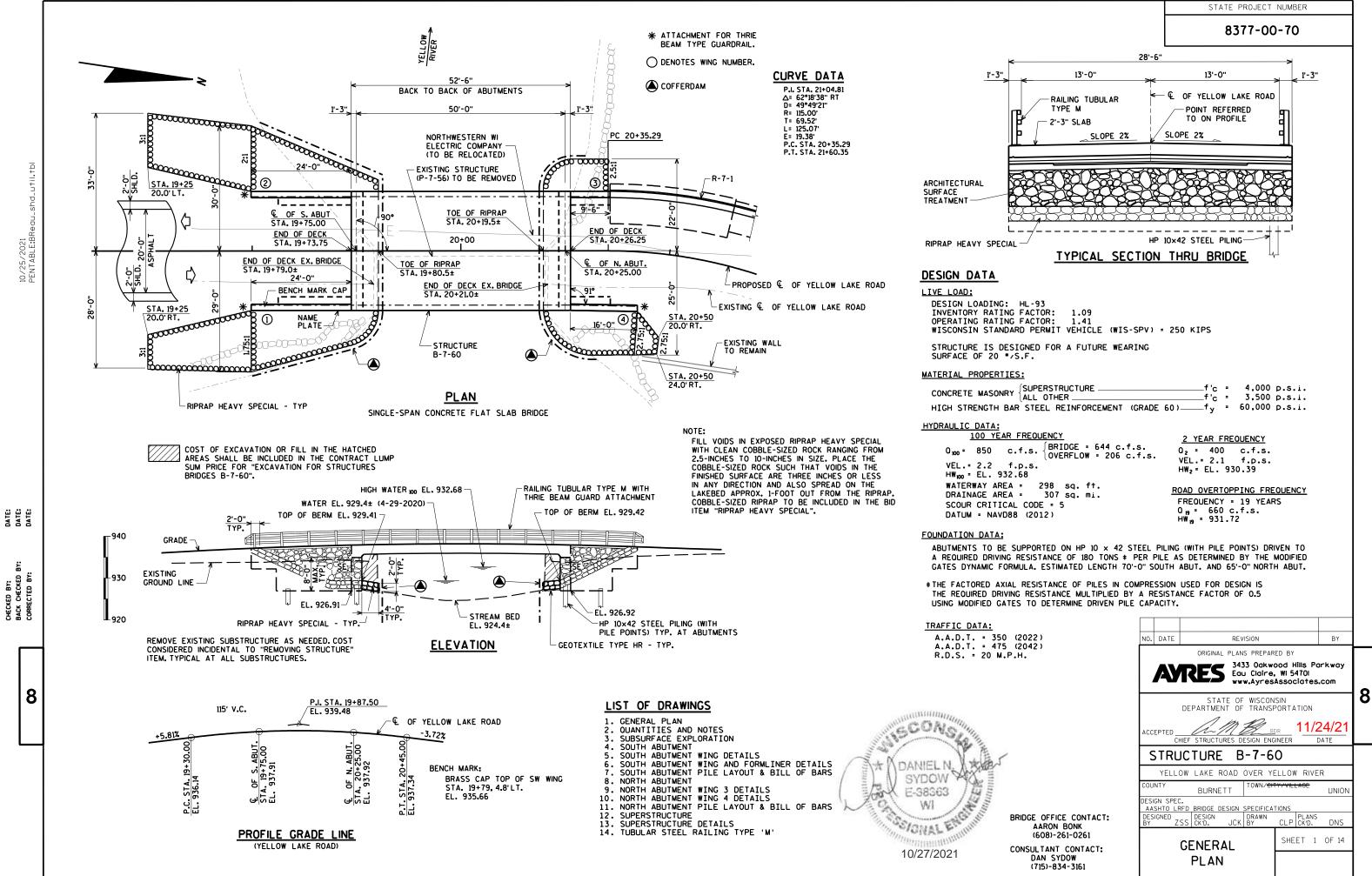
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

PLOT DATE: 29-MAY-2012 13:03

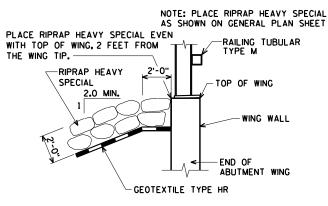
PLOT BY: mscsja

PLOT SCALE: 4.961899:1.000000

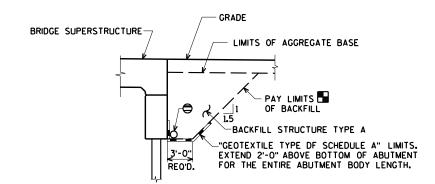
WISDOT/CADDS SHEET 42



BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL	CATEGORY 20	CATEGORY 30
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-07-0056	EACH				1	1	
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-7-60	LS				1	1	
206.5000	COFFERDAMS B-7-60	LS				1	1	
210.1500	BACKFILL STRUCTURE TYPE A	TON	220	220		440	440	
502.0100	CONCRETE MASONRY BRIDGES	CY	69.6	48.9	127.0	245	245	
502.3200	PROTECTIVE SURFACE TREATMENT	SY			200	200	200	
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,410	2,000		4,410	4,410	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	3,740	1,810	21,490	27,040	27,040	
	RAILING TUBULAR TYPE M	LF	50	27	105	182	182	-
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	11	8		19	19	
517.1015.S	CONCRETE STAINING MULTI-COLOR B-7-60	SF	440	330		770		770
517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-7-60	SF	440	330		770		770
	PILE POINTS	EACH	7	7		14	14	
550.1100	PILING STEEL HP 10-INCH × 42 LB	LF	490	455		945	945	
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	90	60		150	150	
	GEOTEXTILE TYPE DF SCHEDULE A	SY	60	40		100	100	
645.0120	GEOTEXTILE TYPE HR	SY	230	80	:	310	310	:
SPV.0035.01	RIPRAP HEAVY SPECIAL	CY	120	40		160	160	
	NON-BID ITEMS							
	FILLER	SIZE				1/2" & 3/4"		

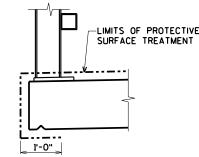


TYPICAL FILL SECTION AT WING TIPS (WINGS 1, 2, AND 4)

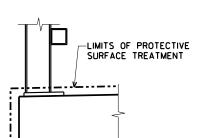


BACKFILL STRUCTURE LIMITS THRU ABUTMENT

- BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED



PROTECTIVE SURFACE TREATMENT DETAIL



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

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 SPECIAL AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-7-60" SHALL BE THE EXISTING GROUNDLINE.

THE EXISTING STRUCTURE, P-07-56, TO BE REMOVED, IS A 42-FT. LONG SINGLE-SPAN STEEL DECK GIRDER BRIDGE ON CONCRETE ABUTMENTS WITH A 13-FT. CLEAR ROADWAY WIDTH.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQURIED DIRECTLY BEHIND ABUTMENTS AND ABUTMENTS WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED AS

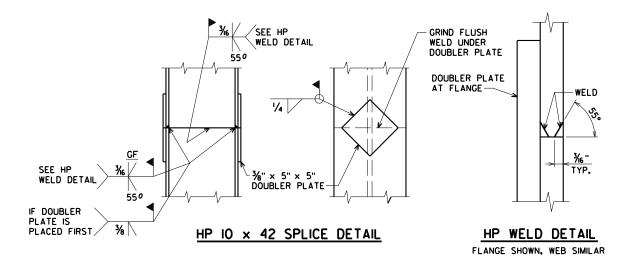
SHOWN IN DETAIL ON THIS SHEET. BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED

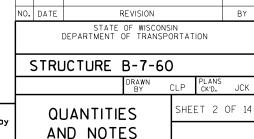
OTHERWISE.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

EXTENT OF BELOW GRADE SUBSTRUCTURES ARE NOT KNOWN. REMOVE EXISTING SUBSTRUCTURES AS NEEDED TO BUILD NEW SUBSTRUCTURES. COST OF SUBSTRUCTURE REMOVAL IS CONSIDERED INCIDENTAL TO "REMOVING STRUCTURE" BID ITEM.

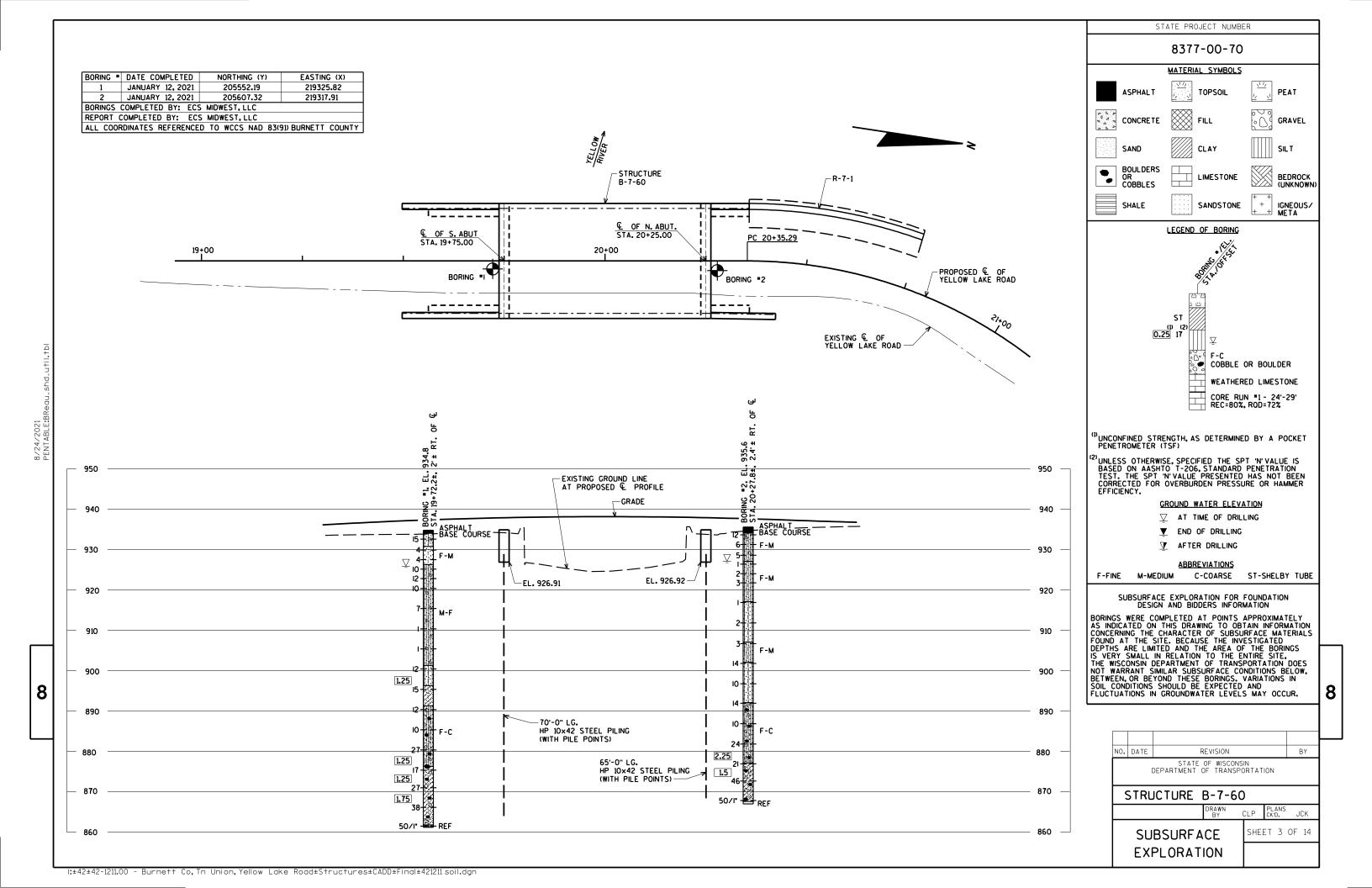
AT ABUTMENTS, CONCRETE POURED UNDERWATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

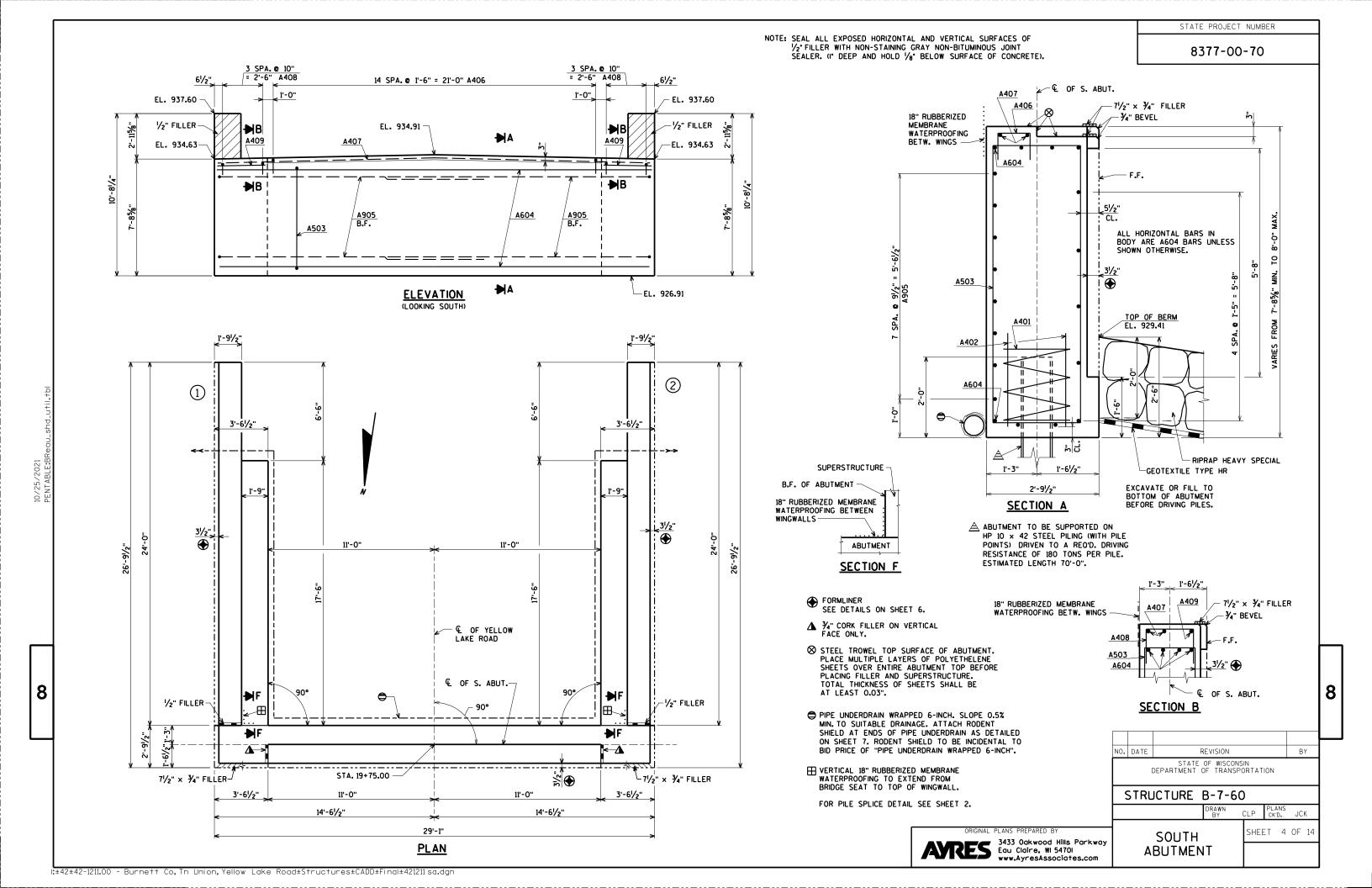




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3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com





STATE PROJECT NUMBER 8377-00-70 24'-0" 1'-2" 4 SPA. 0 5'-41/2" = 21'-6" 1'-4" RAILING TUBULAR TYPE M RAIL POST SPACING 8 SPA. @ 9" = 6'-0" 23 SPA. @ 9" MAX. = 17'-0" A613 _ l'-0" −EL. 937.60 * *EL. 936.84 ¬ NAME PLATE (WING 1 ONLY) _½" FILLER A416 E.F. FINISHED GRADE — A415 E.F. EL. 932.03 TOP OF BERM EL. 929.41 6'-6" 6'-0" **▶**C - EL. 926.91 2 SPA. e 1'-0" = 2'-0" A419 17 SPA. @ 1'-0" = 17'-0" A510 **ELEVATION - WING 1** (WING 1 SHOWN - WING 2 SIMILAR) FOR SECTIONS C & D SEE SHEET 6. FORMLINER
SEE DETAILS ON SHEET 6. 8 OPT. KEYED CONST. JOINT - FORMED BY A SURFACED BEVELED 2" × 6". 8 FOR PILE SPLICE DETAIL SEE SHEET 2. * ELEVATIONS AND DIMENSIONS SHOWN ARE AT THE FRONT FACE OF WINGWALL. STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-7-60 CLP PLANS CK'D. JCK SOUTH SHEET 5 OF 14 AYRES 3433 Oakwood Hills Parkway Eau Claire, WI 5470I www.AyresAssociates.com ABUTMENT WING DETAILS l:±42±42-1211.00 - Burnett Co, Tn Union, Yellow Lake Road±Structures±CADD±Final±421211 sa.dgn

SECTION C

3'-61/2"

1'-61/2"

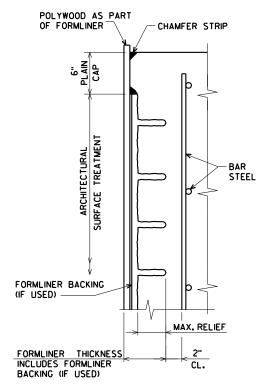
2'-0"

A510

FOR LOCATION OF SECTIONS C & D SEE SHEET 5.

- FORMLINER
- → ¾· 'v' GROOVE ON FRONT FACE OF WINGWALL.
- OPT. KEYED CONST. JOINT FORMED BY A SURFACED BEVELED 2" × 6".
- H 18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE. NOT REQUIRED IF CONST. JT. IS NOT USED.

FOR PILE SPLICE DETAIL SEE SHEET 2.



SECTION THRU FORMLINER

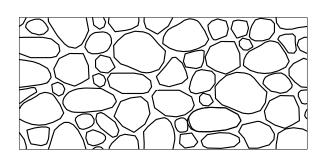
ABUTMENT NOTES

FORMLINER COURSING ON ABUTMENTS AND WINGS SHALL BE LEVEL.

THE FORMLINER COURSING ON THE WINGS SHALL BE VERTICALLY ALIGNED WITH THE FORMLINER COURSING ON THE FRONT OF THE ABUTMENT.

THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.

WRAPAROUND/MATCH FORMLINER PATTERN AT CORNERS.



FIELD STONE - RANDOM

FORMLINER THICKNESS = 3½" SIZES BETWEEN 6" & 24" MAX. RELIEF = 2½"

STRUCTURE B-7-60

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-7-60

DRAWN CLP PLANS CKD. JCK

SOUTH ABUTMENT WING AND FORMLINER DETAILS

ORIGINAL PLANS PREPARED BY

3433 Oakwood Hills Parkway
Equ Claire, WI 5470I
www.AyresAssociates.com

8

8





3'-61/2"

A510

A511

A419

2'-41/2"

A812

A905

12 SPA. @ 9" = 9'-0"

A604

14'-61/2"

2 SPA. @ 6'-1" = 12'-2"

11'-0"

€ OF YELLOW LAKE ROAD

 \P OF S. ABUT. \lnot

6'-5" MIN. LAP

∠STA. 19+75.00

10 SPA. @ 1'-0" MAX. = 9'-10"

29'-1"

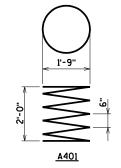
PILE LAYOUT

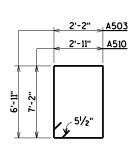
FOR PILE SPLICE DETAIL SEE SHEET 2.

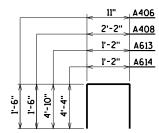
1'-6'/2"

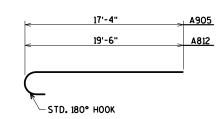
			I DA		_		
NO.	D BAR	REO'D.	LENGTH	BAR	BUNDLED	SERIES	3,740 COATED 2,410 UNCOATED
BAR	COATED	NO. R	ren	BENT	BUN	BAR	LOCATION
A401		5	28-0	Х			BODY @ PILES
A402		10	2-3				BODY @ PILES
A503		35	18-7	Х			BODY VERT.
A604		12	28-2				BODY HORIZ.
A905		16	18-7	Х			BODY HORIZ. B.F.
A406		15	3-9	Х			BODY VERT. TOP
A407		2	28-2				BODY HORIZ. TOP
A408		8	5-0	Х			BODY VERT. TOP @ WINGS
A409		2	2-11				BODY HORIZ. TOP F.F. @ WINGS
A510	X	36	20-9	Х			WINGS 1 & 2 VERT.
A511	X	16	19-8				WINGS 1 & 2 HORIZ. F.F.
A812	X	22	20-5	Х			WINGS 1 & 2 HORIZ. B.F. & TOP
A613	X	48	10-6	Х			WINGS 1 & 2 VERT.
A614	X	18	9-6	Х			WINGS 1 & 2 VERT.
A415	X	12	7-9				WINGS 1 & 2 HORIZ. E.F.
A416	X	10	23-7				WINGS 1 & 2 HORIZ. E.F.
A417	X	4	11-4				WINGS 1 & 2 HORIZ. E.F.
A618	X	4	23-7				WINGS 1 & 2 HORIZ. E.F.
A419		6	7-3				BODY VERT. END @ WINGS 1 & 2
	Ш						

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.









STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-7-60 CLP PLANS CK'D. JCK

SOUTH ABUTMENT SHEET 7 OF 14

PILE LAYOUT & BILL OF BARS

8

ATRES 3433 Oakwood Hills Parkway Eau Claire, WI 5470I www.AyresAssociates.com

RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH". THE RODENT SHIELD SHALL BE 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 EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 imes 1-INCH

l:±42±42-1211.00 - Burnett Co, Tn Union, Yellow Lake Road±Structures±CADD±Final±421211 sa.dgn

COUPLING. ORIENT SO SLOTS ARE VERTICAL.

3'-61/2"

A510

A812

A905

12 SPA. @ 9" = 9'-0"

A402

14'-61/2"

2 SPA. @ 6'-1" = 12'-2"

 $\overline{\mathsf{V}\,\mathsf{V}\,\mathsf{V}\,\mathsf{V}\,\mathsf{V}\,\mathsf{V}\,\mathsf{V}}$

SECTION G-G

11'-0"

A401

1

A511

A419

PILE SPACING

A503 BAR SPACING SPACE TO MISS PILES

2'-41/2"

6" NOMINAL

SHEET METAL SCREWS.

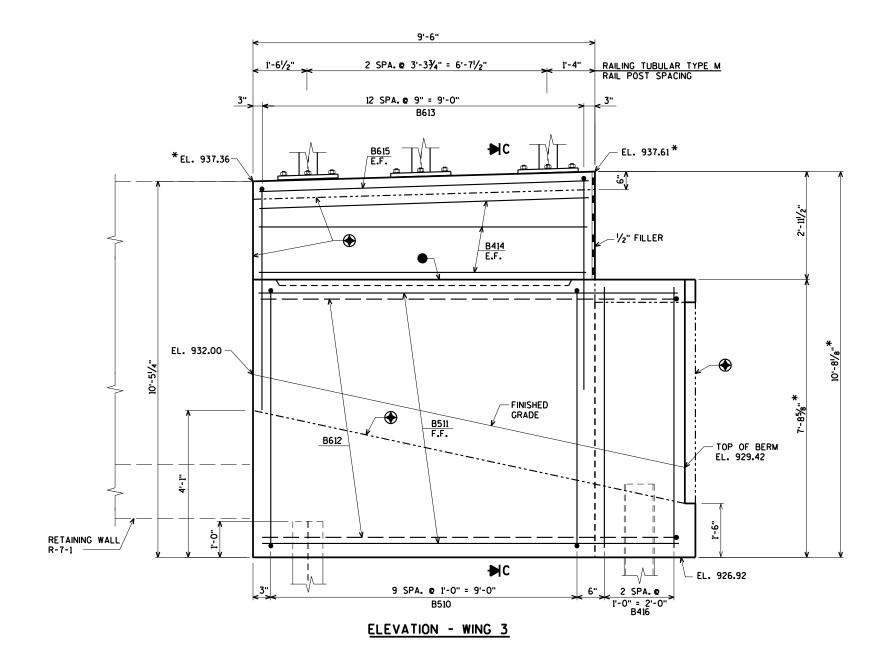
STATE PROJECT NUMBER NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2 FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (I' DEEP AND HOLD 1/8 BELOW SURFACE OF CONCRETE). 8377-00-70 3 SPA. @ 10" = 2'-6" B408 3 SPA. @ 10" = 2'-6" B408 B407 14 SPA. @ 1'-6" = 21'-0" B406 _{_}6½" B406 -71/2" x 3/4" FILLER 1'-0" 18" RUBBERIZED EL. 937.61 EL. 937.61 −¾" BEVEL MEMBRANE WATERPROOFING 1/2" FILLER -½" FILLER BETW. WINGS EL. 934.92 B409 B407 B409 EL. 934.63 -EL. 934.63 B604 - F.F. **∌**B **∌**B ALL HORIZONTAL BARS IN BODY ARE B604 BARS UNLESS SHOWN OTHERWISE. B604 B503 2 B503 • **ELEVATION** EL. 926.92 TOP OF BERM (LOOKING NORTH) EL. 929.42 B402 2" 1'-9" 1'-10 %" B60 1'-91/2" - RIPRAP HEAVY SPECIAL SUPERSTRUCTURE -1'-61/2" 1'-3" GEOTEXTILE TYPE HR B.F. OF ABUTMENT RETAINING WALL 3'-61/2" EXCAVATE OR FILL TO BOTTOM OF ABUTMENT BEFORE DRIVING PILES. 2'-91/2" R-7-XXX 18" RUBBERIZED MEMBRANE WATERPROOFING BETWEEN WINGWALLS SECTION A ABUTMENT TO BE SUPPORTED ON 11'-0" HP 10 x 42 STEEL PILING (WITH PILE POINTS) DRIVEN TO A REO'D. DRIVING ABUTMENT RESISTANCE OF 180 TONS PER PILE. 3'-61/2' ESTIMATED LENGTH 65'-0". · 🖳 OF YELLOW SECTION F LAKE ROAD 1'-3"__1'-61/2" • **♦** FORMLINER B409 18" RUBBERIZED MEMBRANE - 71/2" x ¾" FILLER B407 SEE DETAILS ON SHEET 6. WATERPROOFING BETW. WINGS € OF N. ABUT. ▲ ¾" CORK FILLER ON VERTICAL FACE ONLY. 1/2" FILLER-−½" FILLER B408 90° STEEL TROWEL TOP SURFACE OF ABUTMENT. B503 PLACE MULTIPLE LAYERS OF POLYETHELENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING FILLER AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE **△** 8 AT LEAST 0.03". € OF N. ABUT. **SECTION** B STA. 20+25.00-⇒ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT 71/2" × ¾" FILLER--71/2" x 3/4" FILLER 11'-0" 3'-61/2" 3'-61/2" 11'-0" SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 7. RODENT SHIELD TO BE INCIDENTAL TO 14'-61/2" 14'-61/2" BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH". STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 29'-1" ₩ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM <u>PLAN</u> BRIDGE SEAT TO TOP OF WINGWALL. STRUCTURE B-7-60 FOR PILE SPLICE DETAIL SEE SHEET 2. CLP PLANS CK'D. JCK SHEET 8 OF 14 NORTH 3433 Oakwood Hills Parkway Eau Claire, WI 54701 **ABUTMENT** www.AyresAssociates.com

l±42±42-1211.00 - Burnett Co, Tn Union, Yellow Lake Road±Structures±CADD±Final±421211 na.dgn

STATE PROJECT NUMBER

8377-00-70

-FOR RAILING TUBULAR TYPE M DETAILS SEE SHEET 14

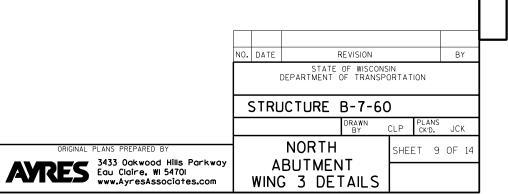


1'-91/2"

- FORMLINER
 SEE DETAILS ON SHEET 6.
- ¾ · · · · · GROOVE ON FRONT FACE OF WINGWALL.
- OPT. KEYED CONST. JOINT FORMED BY A SURFACED BEVELED 2" x 6".
- ⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE. NOT REQUIRED IF CONST. JT. IS NOT USED.

FOR PILE SPLICE DETAIL SEE SHEET 2.

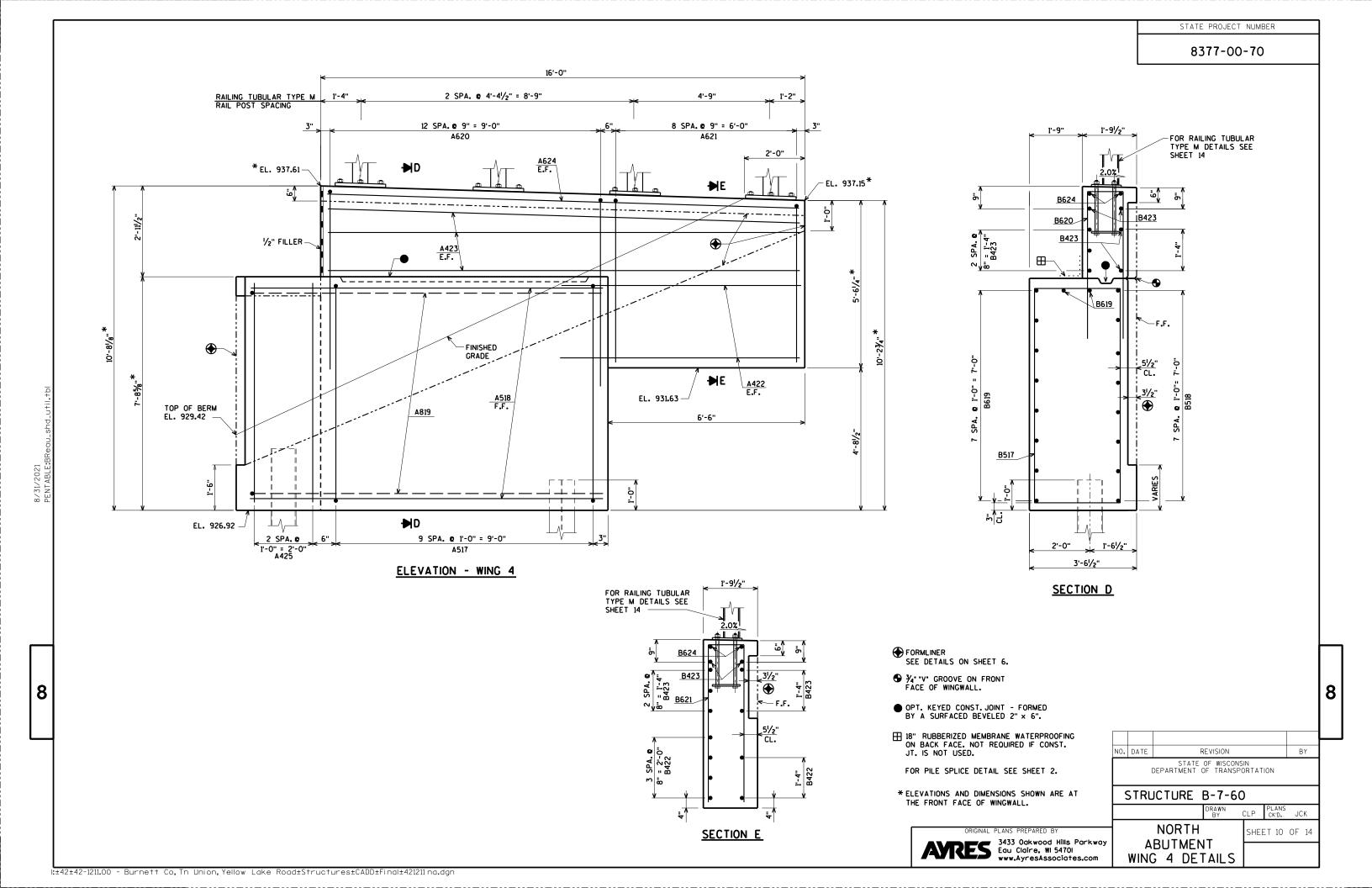
* ELEVATIONS AND DIMENSIONS SHOWN ARE AT THE FRONT FACE OF WINGWALL.



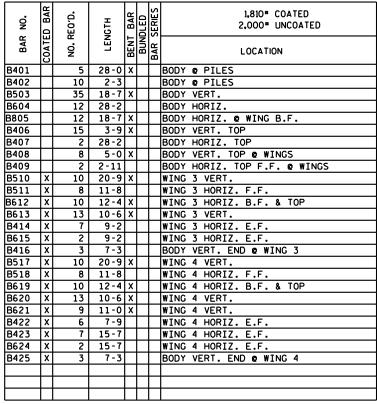
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l:±42±42-1211.00 - Burnett Co, Tn Union, Yellow Lake Road±Structures±CADD±Final±421211 na.dgn

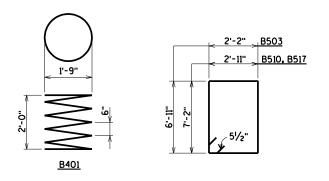
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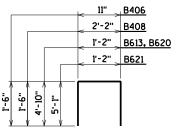


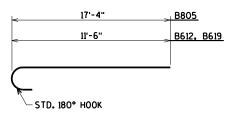




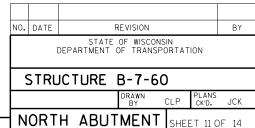
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.







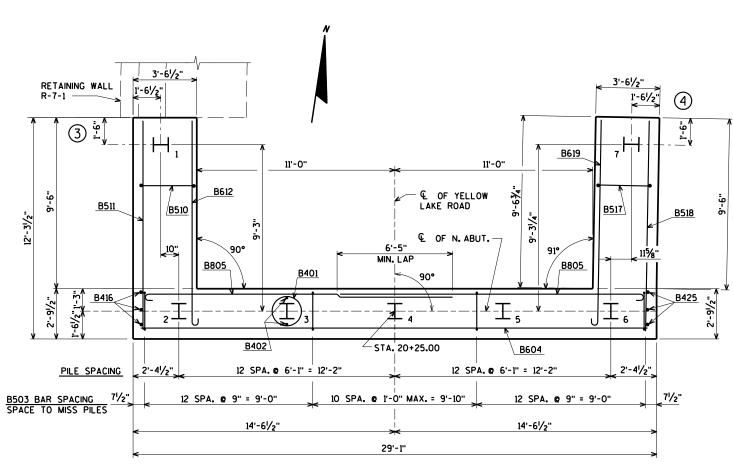
PILE LAYOUT & BILL OF BARS



8

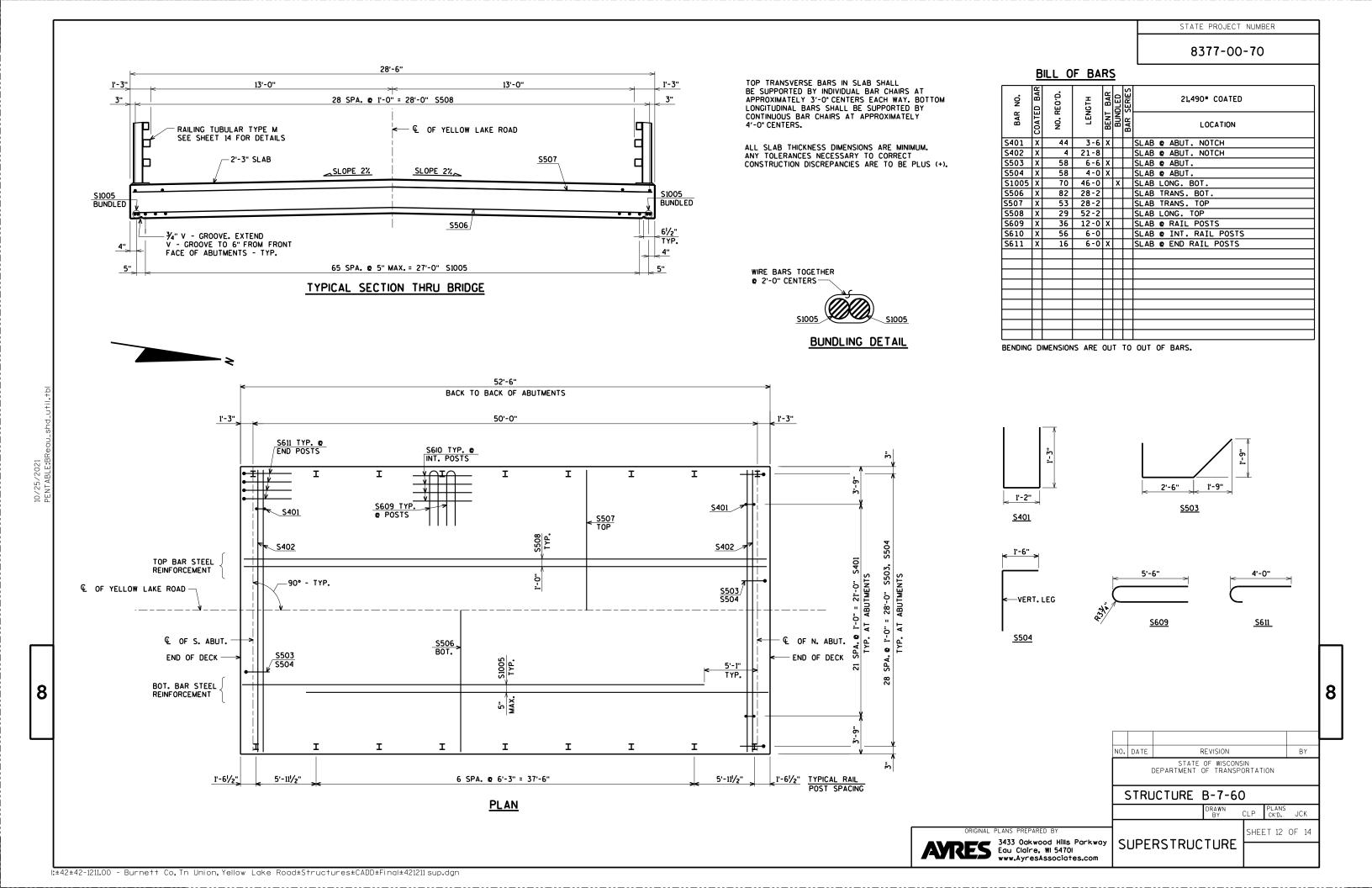
ORIGINAL PLANS PREPARED BY

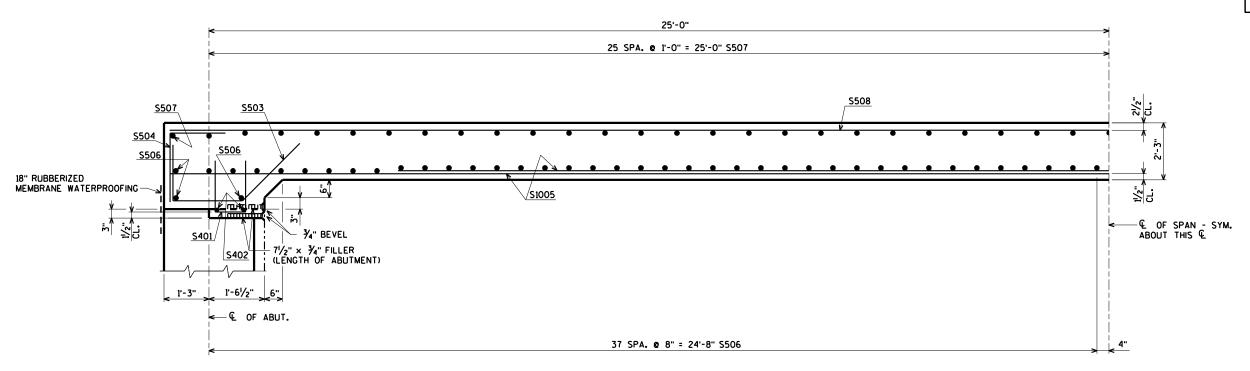
3433 Oakwood Hills Parkway
Eau Claire, WI 5470I
www.AyresAssociates.com



PILE LAYOUT

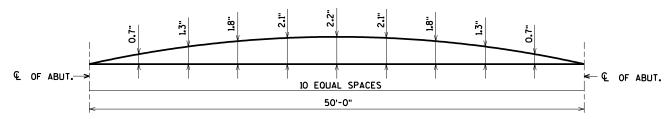
FOR PILE SPLICE DETAIL SEE SHEET 2.





FORMLINER
SEE DETAILS ON SHEET 6.

PART LONGITUDINAL SECTION



CAMBER DIAGRAM

CAMBER SPAN AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION & FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTION.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE, FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

MINUS.... SLAB THICKNESS

PLUS..... CAMBER

PLUS..... FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS = TOP OF SLAB FLASEWORK ELEVATION

TOP OF SLAB ELEVATIONS

LOCATION	€ OF W. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF E. ABUT.
W. EDGE OF SLAB	937.63	937.72	937.80	937.85	937.88	937.89	937.88	937.85	937.80	937.73	937.63
€ OF STRUCTURE	937.91	938.01	938.08	938.13	938.16	938.18	938.17	938.14	938.08	938.01	937.92
E. EDGE OF SLAB	937.63	937.72	937.80	937.85	937.88	937.89	937.88	937.85	937.80	937.73	937.63

ELEVATIONS SHOWN ARE FINISHED SLAB AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	€ OF S. ABUT.	5/10 PTS.	€ OF N. ABUT.
W. EDGE OF SLAB			
€ OF STRUCTURE			
E EDGE OF SLAB			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE $\mathfrak L$ OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR $\mathfrak L$. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

STRUCTURE B-7-60

SUPERSTRUCTURE DETAILS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-7-60

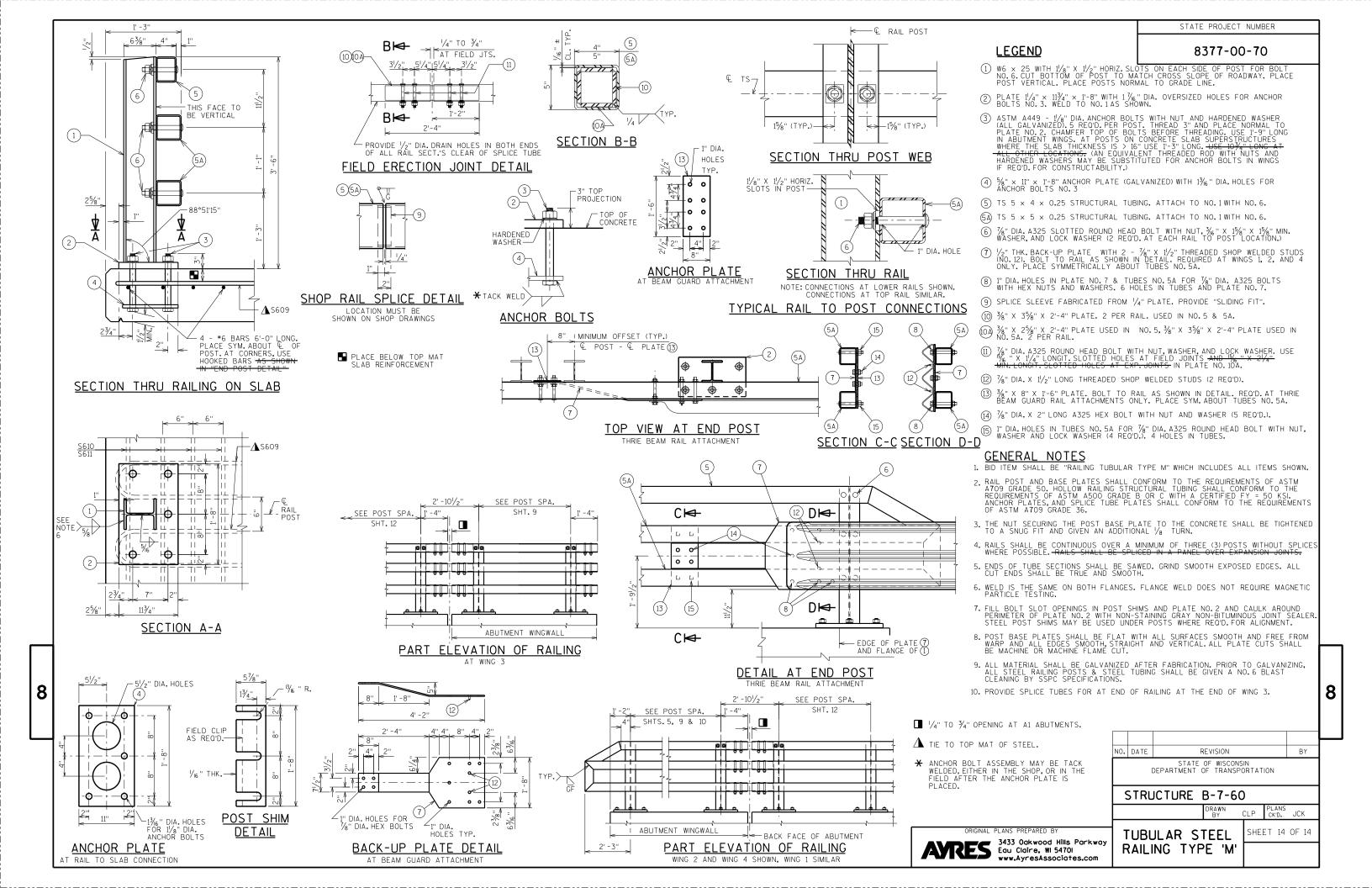
DRAWN CLP PLANS CK'D. JCK

SHEET 13 OF 14

8

ARES

3433 Oakwood Hills Parkway
Equ Claire, WI 5470I
www.AyresAssociates.com



STATE PROJECT NUMBER

8377-00-70

GEOMETRY TABLE

-NORTHWESTERN WI ELECTRIC COMPANY (TO BE RELOCATED)

END WALL STA. 20+75, 14.54' LT. = STA. 0+44.21 WALL

END WALL STA. 0+44.21 WALL

EL. 936.21

WALL STATION	ROADWAY STATION		TOP OF WALL EL. AT F.F.		
0+00.00	20+35.75	14.54'	937.36	937.39	932.00
0+16.05	20+50.00	14.54'	936.87	936.90	932.80
0+30.13	20+62.50	14.54'	936.48	936.51	933.50
0+44.21	20+75.00	14.54'	936.18	936.21	936.21

LIST OF DRAWINGS

- 1. RETAINING WALL LAYOUT
- 2. RETAINING WALL DETAILS
- 3. WALL A DETAILS
- 4. WALL B DETAILS
- 5. WALL DETAILS & BILL OF BARS
- 6. TUBULAR STEEL RAILING TYPE 'M'

7. SUBSURFACE EXPLORATION

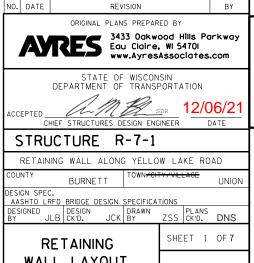
FOR GENERAL NOTES AND DESIGN DATA SEE SHEET 2



11/01/2021

BRIDGE OFFICE CONTACT:
AARON BONK (608)-261-0261

CONSULTANT CONTACT: DAN SYDOW (715)-834-3161



1:±42±42-1211.00 - Burne++ Co, Tn Union, Yellow Lake Road±S+ruc+ures±CADD±Wall±421211 gp wall.dgn

TOTAL ESTIMATED QUANTITIES

EXCAVATION FOR STRUCTURES RETAINING WALLS R-7-1

BAR STEEL REINFORCEMENT HS COATED STRUCTURES _

Q00000000000000

BEGIN WALL STA. 20+35.75, 14.54' LT.

STRUCTURE B-7-60

BEGIN WALL
STA. 0+00.00 WALL

EL. 937.39

940

935

930

925

BACKFILL STRUCTURE TYPE A

RAILING TUBULAR TYPE M.

CONCRETE MASONRY RETAINING WALLS.

RUBBERIZED MEMBRANE WATERPROOFING.

PIPE UNDERDRAIN WRAPPED 6-INCH.

CONCRETE STAINING MULTI-COLOR R-7-1.

ARCHITECTURAL SURFACE TREATMENT R-7-1

BAR STEEL REINFORCEMENT HS STRUCTURES

BID ITEMS

8

ITEM NUMBER

206.3000

210.1500

504.0500

505.0400

505.0600

513.4061

516.0500

612.0406

517.1015.S

517.1050.S

= STA. 0+00.00 WALL

1 20 1 25

44'-25/8"

14'-1" SECTION YY

44'-2%" TOTAL WALL LENGTH

14'-1"

SECTION YY

FINISHED GRADE

CATEGORY 20

1 LS

370 TON

45 CY

45 LF

4 SY

--- SF

60 LF

1,870 LB

3.240 LB

ELEVATION

(LOOKING AT BACK FACE OF WALL) ALL DIMENSIONS MEASURED ALONG FRONT FACE

TOTAL

1 LS

370 TON

45 CY

45 LF

210 SF

210 SF

4 SY

1,870 LB

3.240 LB

FRONT FACE R-7-1

14'-1" WALL B

-RAILING TUBULAR

EL. 929.50

CATEGORY 30

--- LS

--- TON

--- CY

--- LB

--- LB

--- LF

--- SY

210 SF

210 SF

--- LF

TYPE M

€ OF YELLOW LAKE ROAD

30'-15/8" WALL A

CAST-IN-PLACE RETAINING WALL ALL DIMENSIONS MEASURED ALONG FRONT FACE FOR TYPICAL SECTION THROUGH RETAINING WALL, SEE SHEET 2

30'-1%" WALL A

STA. 0+16.05 EL. 932.80

VERTICAL CONTRACTOIN

16'-05%"

FOOTING LIMITS-

16'-05%"

SECTION XX

EL. 928.00

TOP OF

WALL

SECTION XX

I.D.

DATE:

WALL LAYOUT

13'-0'

STATE PROJECT NUMBER

SOIL DESCRIPTION	FRICTION ANGLE Ø	MOIST UNIT WEIGHT	COHESION, Cu	NET FACTORED BEARING RESISTANCE
GRANULAR BACKFILL	30°	120 pcf	0 psf	3,500 psf
FOUNDATION SOILS	30°	120 pcf	0 psf	3,500 psf

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST OR FIRST TWO DIGITS OF THE 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.

AT THE BACK FACE OF THE RETAINING WALL ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES RETAINING WALLS R-7-1" SHALL BE THE EXISTING GROUND.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED FOR THE ENTIRE WALL LENGTH. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

DESIGN DATA

LIVE LOAD:

80 psf SURCHARGE

MATERIAL PROPERTIES:

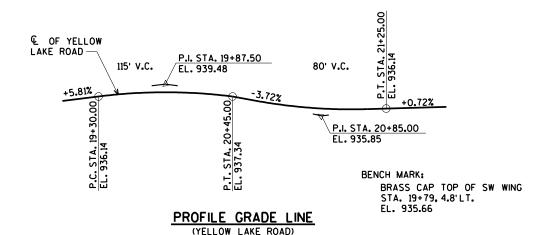
fc = 3,500 p.s.i. CONCRETE MASONRY HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) _____fy = 60,000 p.s.i.

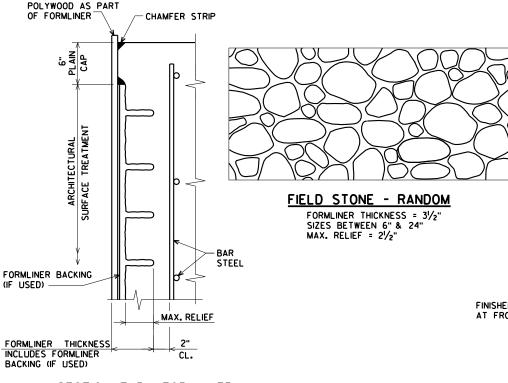
FOUNDATION DATA:

RETAINING WALL TO BE SUPPORTED ON MATERIAL WITH A MINIMUM NET FACTORED BEARING RESISTANCE OF 3,500 psf. A GEOTECHNICAL ENGINEER WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE RETAINING WALL FOOTING.

TRAFFIC DATA:

A.A.D.T. = 350 (2022) A.A.D.T = 475 (2042) R.D.S. = 20 MPH





SECTION THRU FORMLINER

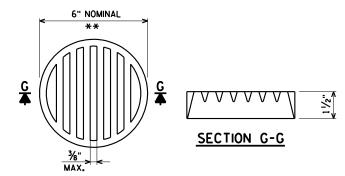
RETAINING WALL NOTES

FORMLINER COURSING ON RETAINING WALLS SHALL BE LEVEL.

THE FORMLINER COURSING ON THE WALLS SHALL BE VERTICALLY ALIGNED WITH THE FORMLINER COURSING ON THE FRONT OF THE ADJACENT WINGWALL.

THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.

WRAPAROUND/MATCH FORMLINER PATTERN AT CORNERS.

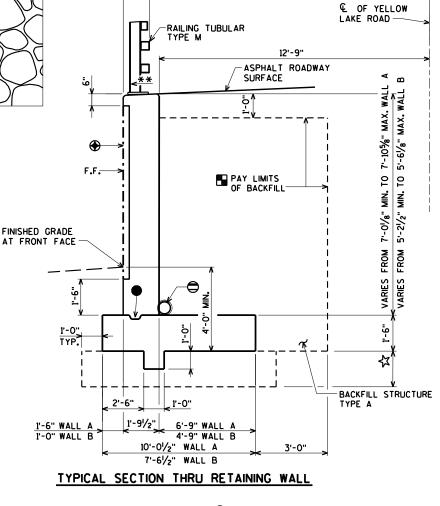


** DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

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 EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL

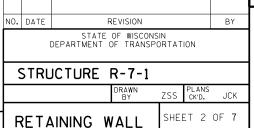


** SLOPE 2%

1'-61/2"

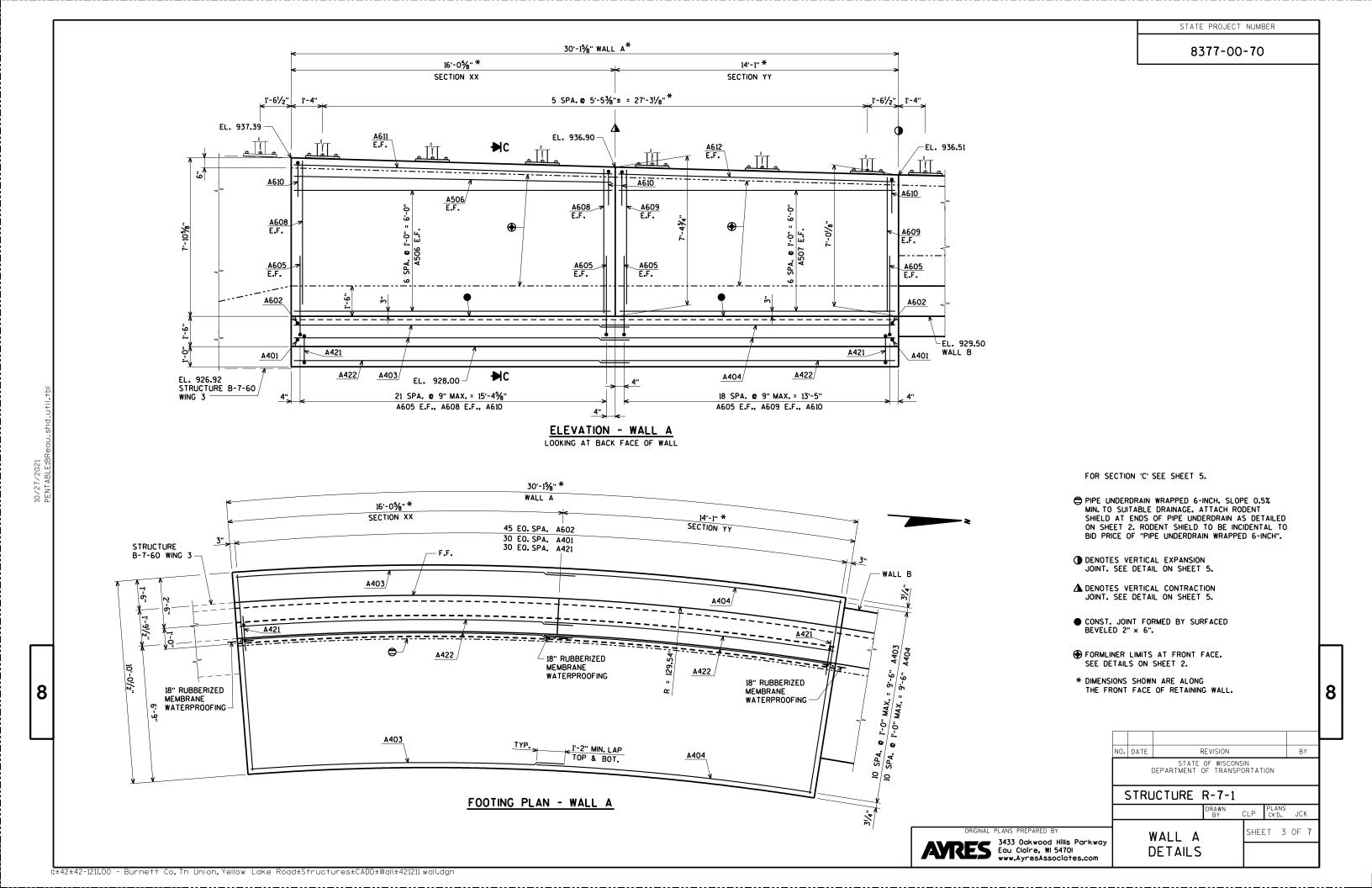
- ARCHITECTURAL SURFACE TREATMENT
- KEYED CONST. JOINT FORMED BY A BEVELED 2" × 6".
- BACKFILL LIMITS. BACKFILL BEYOND BACKFILL LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET.
- ☆ UNDER CUT 5'-1" MIN. AT WALL A. UNDER CUT 3'-10" MIN. AT WALL B. EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. BACKFILL WITH "BACKFILL STRUCTURE TYPE A".

DETAILS

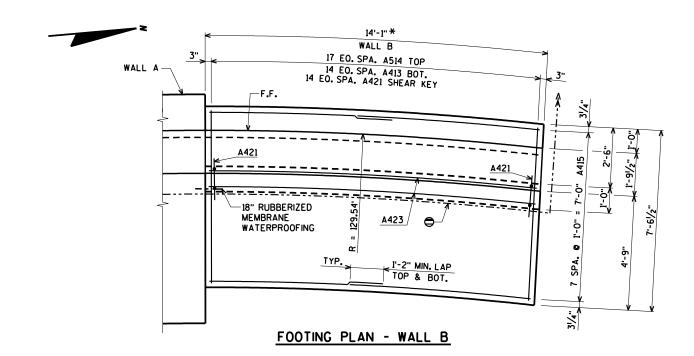


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ELEVATION - WALL B
LOOKING AT BACK FACE OF WALL



FOR SECTION 'D' SEE SHEET 5.

- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2. RODENT SHIELD TO BE INCIDENTAL TO BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".
- DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 5.
- CONST. JOINT FORMED BY SURFACED BEVELED 2" × 6".
- ♦ FORMLINER LIMITS AT FRONT FACE. SEE DETAILS ON SHEET 2.
- * DIMENSIONS SHOWN ARE ALONG THE FRONT FACE OF RETAINING WALL.

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-7-1

DRAWN
BY

CLP PLANS
CKD. JCK

WALL B
DETAILS

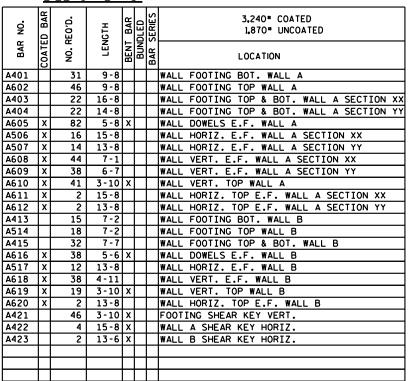
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ARES

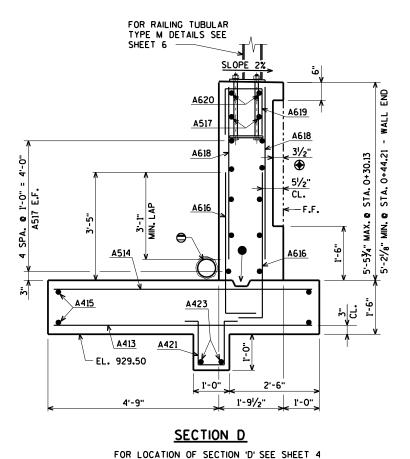
3433 Oakwood Hills Parkway
Eau Claire, WI 5470I
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8

BILL OF BARS



BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



SECTION C

A421

A401

FOR RAILING TUBULAR

TYPE M DETAILS SEE

A611 A612

A506

A605

A422

1'-0"

1'-91/2"

A602

EL. 928.00

6'-9"

A403

A610

A608

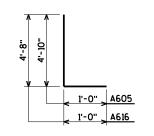
A609

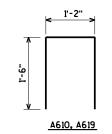
460<u>5</u>

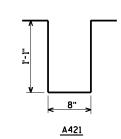
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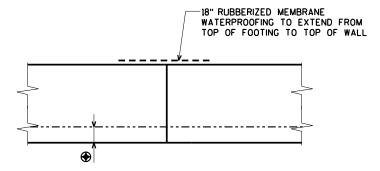
SHEET 6

FOR LOCATION OF SECTION 'C' SEE SHEET 3

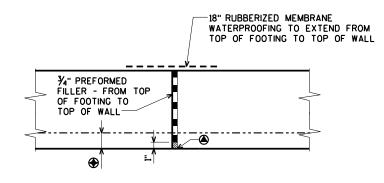






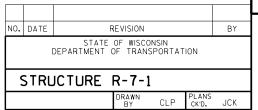


VERTICAL CONTRACTION JOINT DETAIL DO NOT RUN ANY BAR STEEL THRU JOINT



VERTICAL EXPANSION JOINT DETAIL DO NOT RUN ANY BAR STEEL THRU JOINT

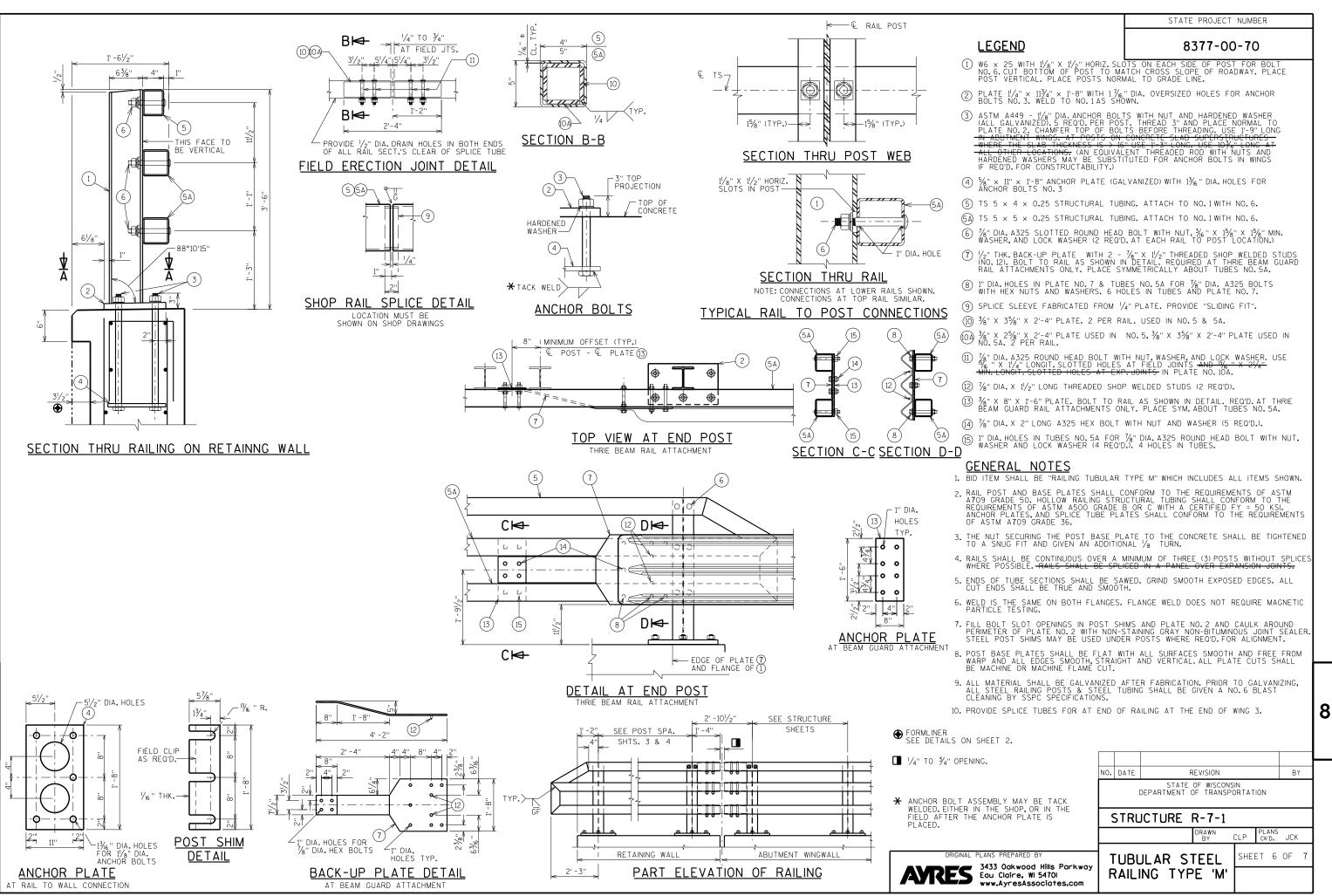
- CONST. JOINT FORMED BY SURFACED BEVELED 2" x 6".
- ♠ FORMLINER SEE DETAILS ON SHEET 2.
- ₱ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2. RODENT SHIELD TO BE INCIDENTAL TO BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".
- A FILL WITH NON-STAINING GRAY SINGLE COMPONENT NON-BITUMINOUS JOINT SEALER. FROM 1'-0" BELOW GROUND LINE TO TOP OF WALL.

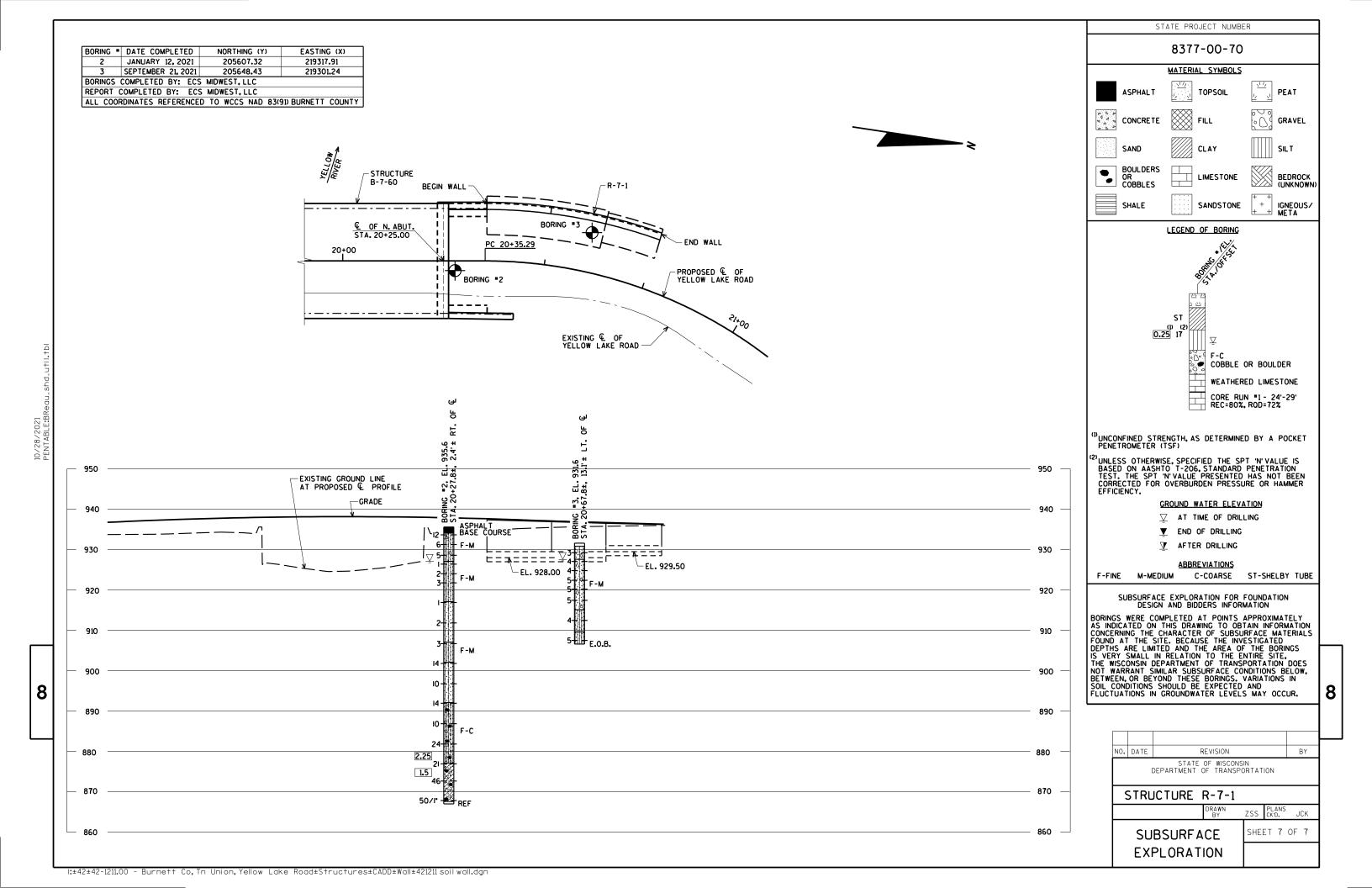


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SHEET 5 OF 7 WALL DETAILS & BILL OF BARS





YELLOW LAKE ROAD COMPUTER EARTHWORK

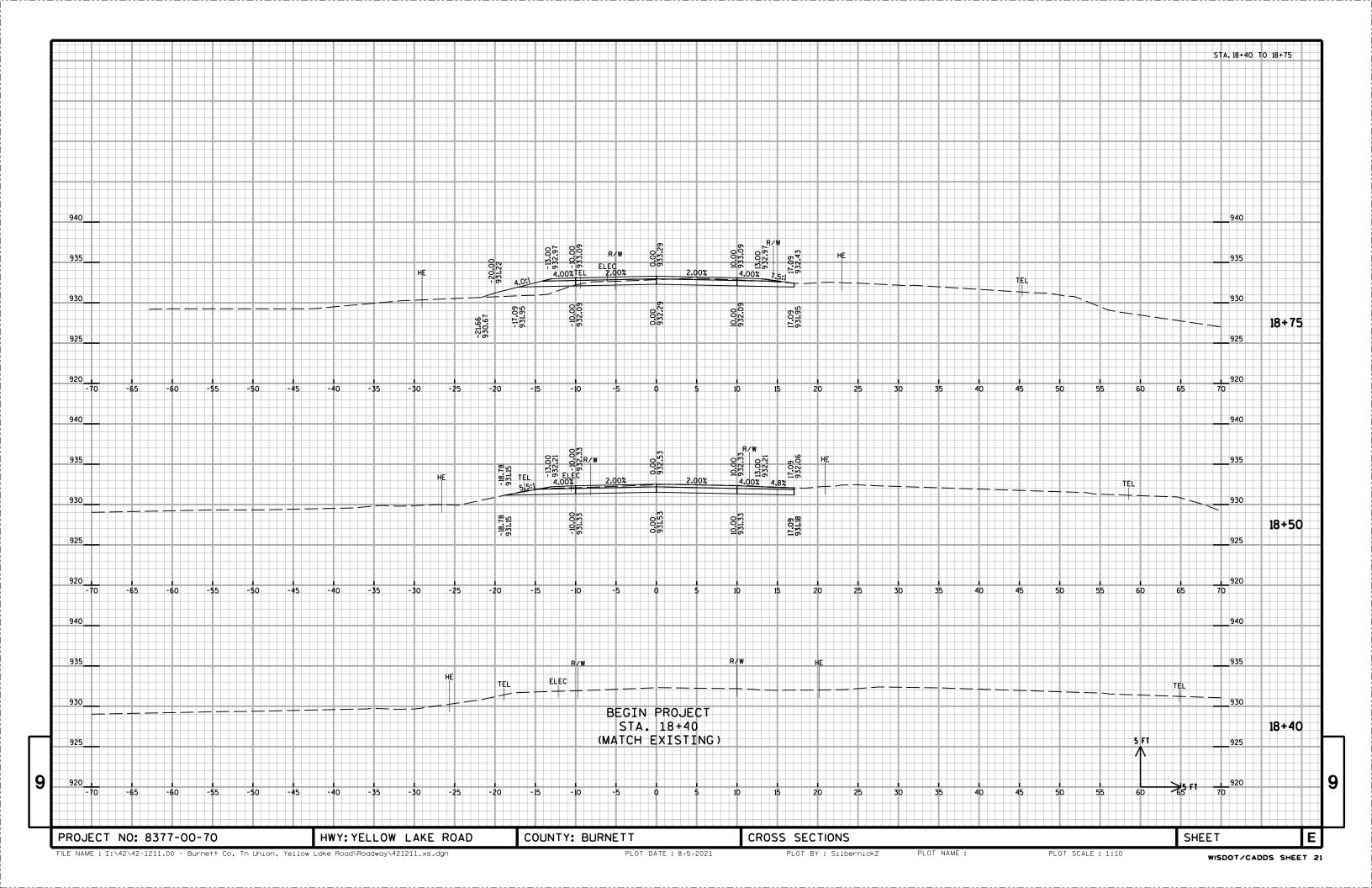
			Area (SF)		Incremental Vol	(CY) (Unadjusted)		Cumulative Vol (CY)	
						Salvaged /			Expanded	
Station	Distance	Cut	Unuseable	Fill	Cut	Unuseable	Fill	Cut	Fill	Mass Ordinate
			Pavement			Pavement		1.00	1.30	
			Material			Material				
					Note 1	Note 4	Note 2	Note 5		Note 3
18+40		34.5	0.0	0.0						
18+50	10.00	30.3	0.0	0.0	12	0	0	12	0	12
18+75	25.00	16.5	0.0	8.0	22	0	4	34	5	29
19+00	25.00	0.0	0.0	39.1	8	0	22	42	34	8
19+25	25.00	0.0	0.0	135.6	0	0	81	42	139	-97
19+50	25.00	0.0	0.0	98.8	0	0	109	42	281	-239
19+73.75	23.75	0.0	0.0	98.8	0	0	87	42	394	-352
B-7-60										
20+26.25		0.0	0.0	35.9						
20+50	23.75	0.0	0.0	35.9	0	0	32	42	436	-394
20+75	25.00	10.5	0.0	11.3	5	0	22	47	465	-418
21+00	25.00	28.4	0.0	0.0	18	0	5	65	471	-406
21+25	25.00	33.4	0.0	0.0	29	0	0	94	471	-377
					94	0	362			

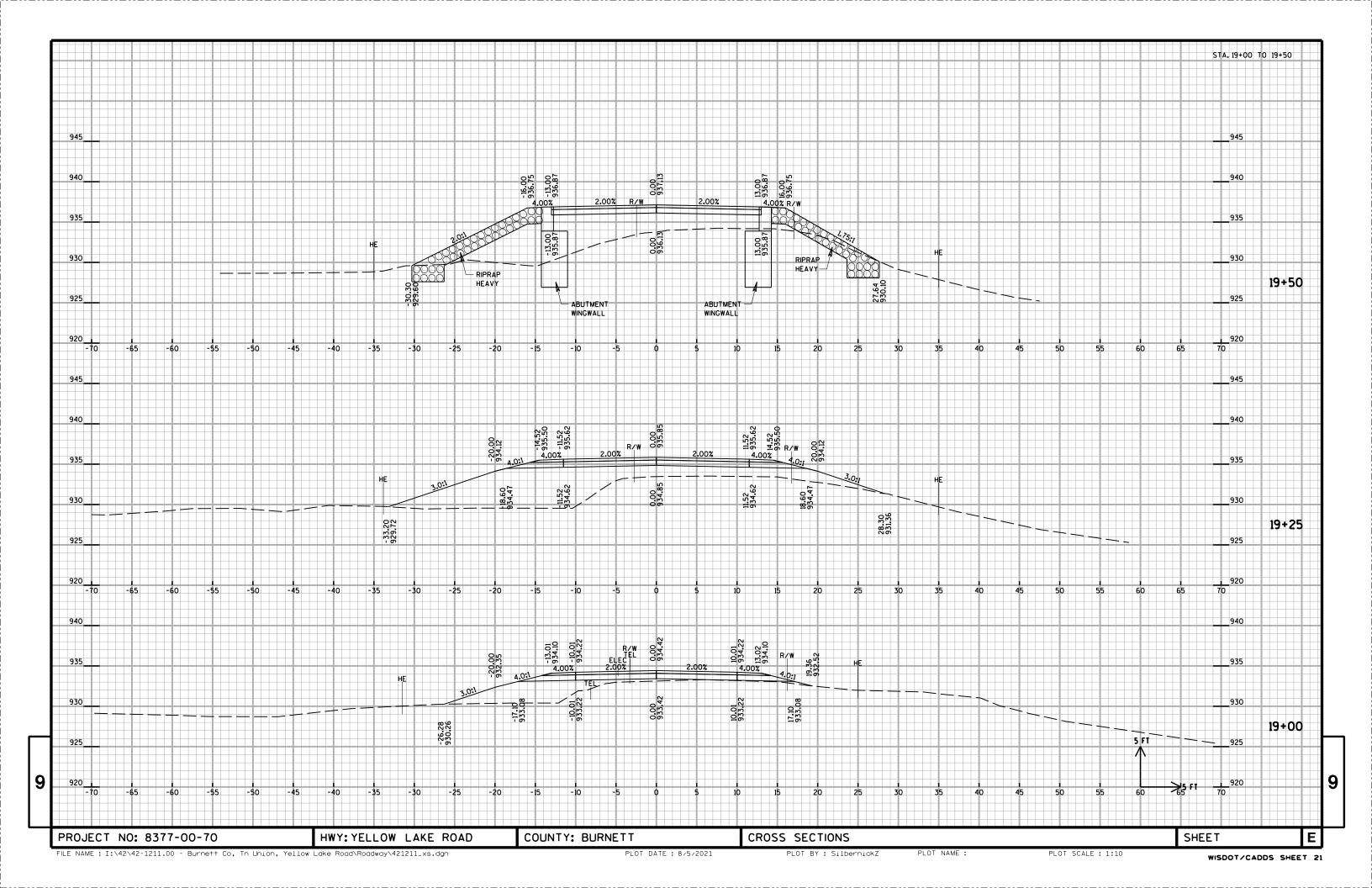
Note 1 - Cut	Cut includes existing asphalt pavement.
Note 2 - Fill	Volume needed to be filled.
Note 3 - Mass Ordinate	(Cut) - (Fill * 1.30)
Note 4 - Salvaged / Unuseable Pavement Material	Existing asphalt pavement to be removed from Cut.
Note 5 - Cut	Cut reduced by salvaged/unuseable asphaltic pavement

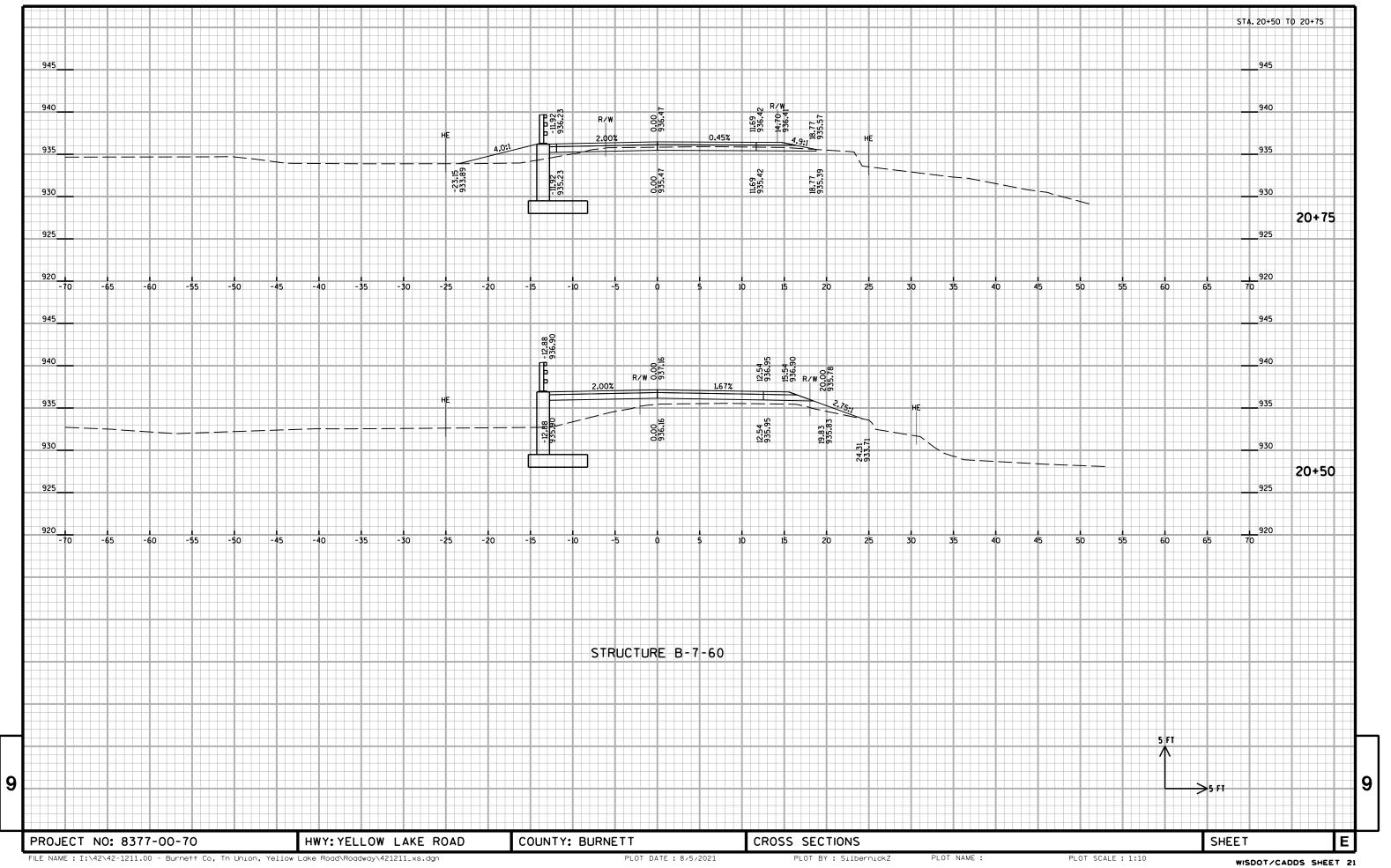
9

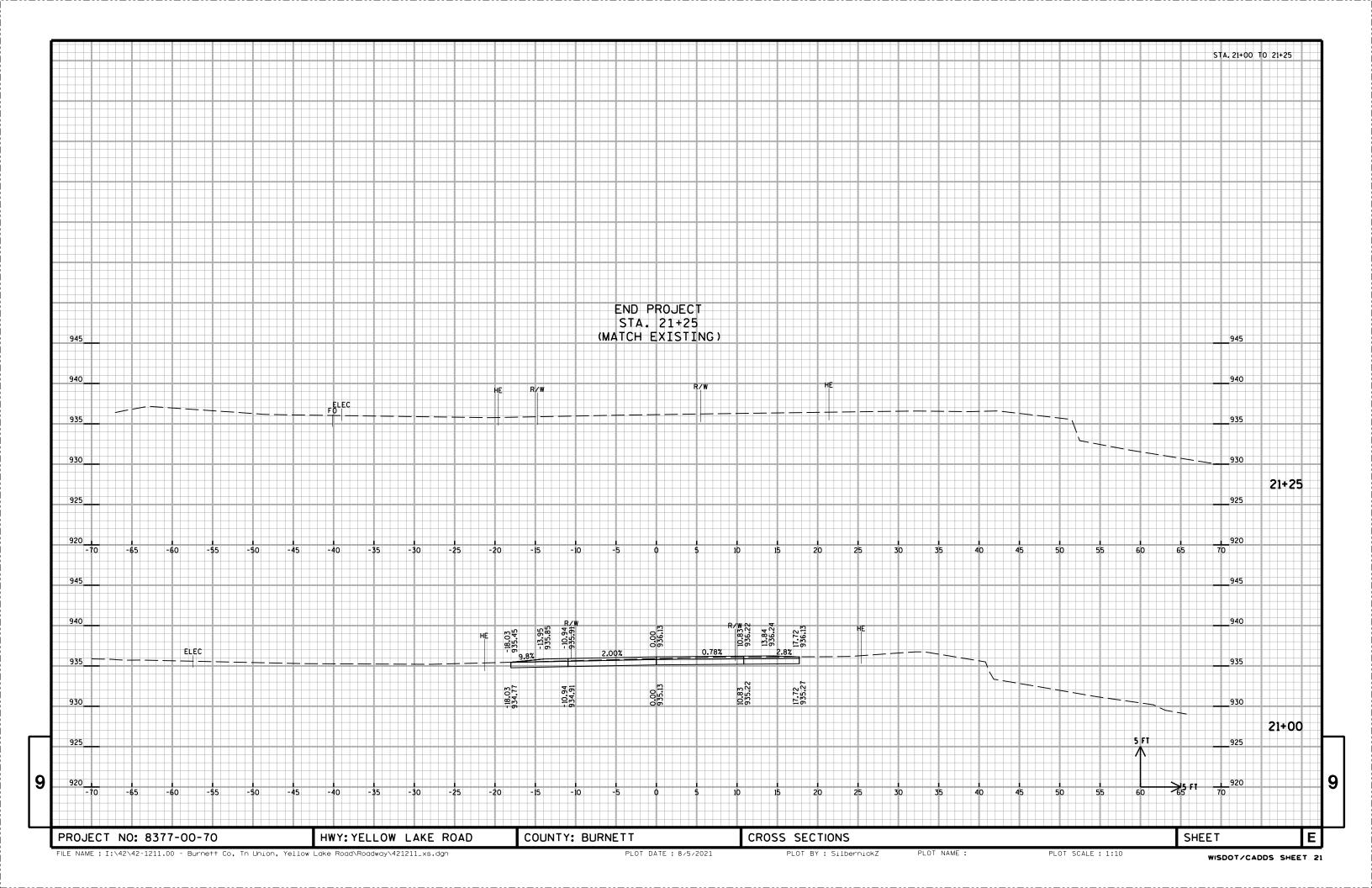
9

PROJECT NO: 8377-00-70 HWY: YELLOW LAKE ROAD COUNTY: BURNETT COMPUTER EARTHWORK DATA SHEET NO: E

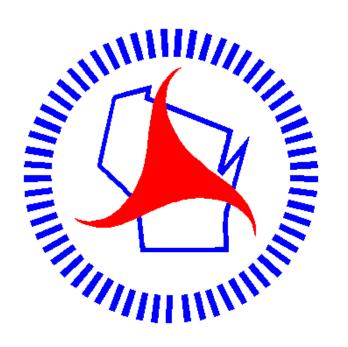








Notes



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