PROJECT WITH: N/

FEB 2014 ORDER OF SHEETS

Typical Sections and Details Section No. Estimate of Quantities Section No. Miscellaneous Quantities

Plan and Profile (Includes Erosion Control Plan) Section No.

Section No. Standard Detail Drawings

Computer Earthwork Data

Cross Sections

TOTAL SHEETS = 32

WOODED OR SHRUB AREA

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

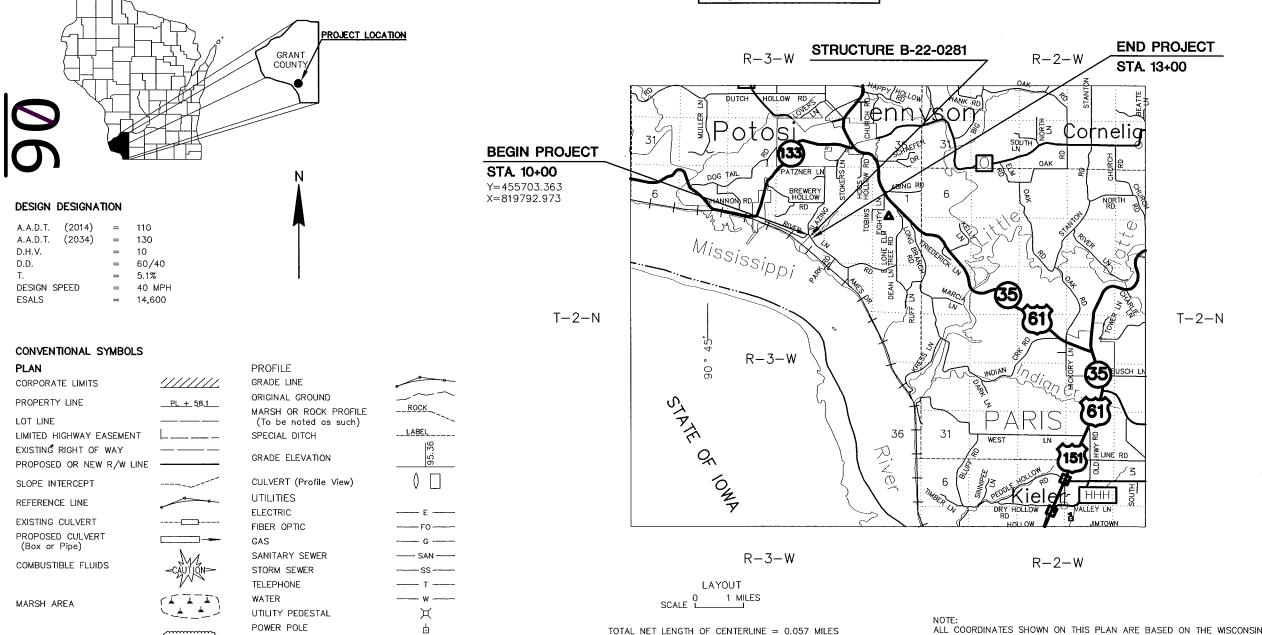
PLAN OF PROPOSED IMPROVEMENT

TOWN OF POTOSI, RIVER LANE ROAD

(REGAN BRANCH BRIDGE B-22-0281)

TOWN ROAD GRANT COUNTY

STATE PROJECT NUMBER 5985-00-76



ACCEPTED FOR POTOSI ORIGINAL PLANS PREPARED BY Associated Engineers, Inc. 619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WISCONSIN 53588 PHONE (608) 588-7866 FAX (608) 588-7954 SCONSIA AARON B. PALMER E-35695 RICHLAND CENTER, (Signature) STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY Surveyor WESTBROOK KJOHNSON ENGINEERS, INC. APPROVED FOR THE DEPARTMENT ATT. 10/29/2013 Kinky A. Jehn

FEDERAL PROJECT

CONTRACT

1

PROJECT

WISC2014053

STATE PROJECT

5985-00-76

TELEPHONE POLE

COUNTY COORDINATE SYSTEM, GRANT COUNTY.



** DENOTES UTILITY IS NOT MEMBER OF DIGGERS HOTLINE

TOWN LIAISON

TOWN OF POTOSI 5230 COUNTY ROAD O POTOSI, WI 53820

ATTN: CURTIS FETZEK, CHAIRMAN (608) 763-2841

COUNTY LIAISON

GRANT COUNTY HIGHWAY DEPARTMENT 1011 N. ADAMS STREET LANCASTER, WI 53813

ATTN: DAVID LAMBERT, P.E., HIGHWAY COMMISSIONER (608) 723-2595 dlambert@co.grant.wi.gov

UTILITIES

SCENIC RIVERS ENERGY COOPERATIVE 231 N. SHERIDAN STREET LANCASTER, WI 53813

ATTN: JEFF FARREY (608) 723-2121 srec@stec.net

TDS TELECOM 140 N. MONROE STREET LANCASTER, WI 53581

ATTN: KEN KLASS (608) 723-3633 kenneth.klass@tdstelecom.com

WisDNR LIAISON

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES
3911 FISH HATCHERY ROAD FITCHBURG, WI 53711

ATTN: CATHY BLESER (608) 275-3308 Catherine.Bleser@Wisconsin.gov

CONSULTANT LIAISON

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 E. HOXIE STREET SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E. (608) 588-7866 apalmer@westbrookeng.com

GENERAL NOTES

NAVD88 DATUM.

SILT FENCE TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SILT FENCE SHALL BE IN PLACE PRIOR TO CONSTRUCTION.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE DRIVING LANES AND THE SHOULDERS, ARE TO BE FERTILIZED, SEEDED, TEMPORARY SEEDED AND MULCHED, OR AS DIRECTED BY THE ENGINEER.

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

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

D.O.T. MONUMENT IS TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR IN THE SAME WING THAT THE PROPOSED NAME PLATE WILL BE PLACED, AS DIRECTED BY THE ENGINEER.

EROSION MAT SHALL BE PLACED ON SLOPES STEEPER THAN 3:1 AND SHALL EXTEND 5.0' BEYOND THE SLOPE INTERCEPT WITH THE ORIGINAL GROUND AND AS DIRECTED BY THE ENGINEER.

WETLANDS EXIST IN THE PROJECT AREA. DO NOT DISTURB WETLAND AREAS SHOWN OUTSIDE THE CONSTRUCTION LIMITS. NOTHING IS TO BE STORED WITHIN WETLAND BOUNDARY.

THE ASPHALTIC SURFACE SHALL BE PLACED IN TWO LIFTS CONSISTING OF A 2¼" LOWER LAYER AND A 1¾" UPPER LAYER.

TIED TO HMP SURVEY STATIONS "POTOSI GPS", "HARRISON S GPS". DICKEYVILLE GPS" AND "JAMESTOWN GPS" VIA GPS/VRS SURVEY FOR HORIZONTAL AND VERTICAL POSITIONS. HORIZONTAL LATITUDES AND LONGITUDES ARE CONVERTED TO GRANT COUNTY COORDINATES NAD 83 (2001). ELEVATIONS ARE REFERENCED TO

STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	L.F.	LINEAR FEET	REQ'D.	REQUIRED
AGG.	AGGREGATE	L.H.F.	LEFT HAND FORWARD	RT.	RIGHT
B.M.	BENCH MARK	L.S.	LUMP SUM	R/W	RIGHT-OF-WAY
Ç OR CL	CENTERLINE	LT.	LEFT	RD.	ROAD
ČR.	CRUSHED	MAX.	MAXIMUM	RDWY.	ROADWAY
C.T.H.	COUNTY TRUNK HIGHWAY	MIN.	MINIMUM	S.	SOUTH
CWT.	HUNDREDWEIGHT	N.	NORTH	SE	SOUTHEAST
C.Y.	CUBIC YARD	NOR.	NORMAL	SHRK.	SHRINKAGE
D.H.	DOUBLE HEADED	PAV'T.	PAVEMENT	S.R.	SIDE ROAD
D.H.V.	DESIGN HOURLY VOLUME	P.C.	POINT OF CURVE	STD.	STANDARD
DIR.	DIRECTED	P.I.	POINT OF INTERSECTION	S.T.H.	STATE TRUNK HIGHWAY
E.	EAST	P.E.	PRIVATE ENTRANCE	STA.	STATION
COR.	CORNER	P.K.	PARKER-KALON NAIL	S.Y.	SQUARE YARD
EL. OR ELEV.	ELEVATION	P OR PL	PROPERTY LINE	T	TANGENT LENGTH OF CURVE
F.E.	FIELD ENTRANCE	P.P.	POWER POLE	ΤĹ	TRANSIT LINE
FT.	FOOT (FEET)	PROJ.	PROJECT	UNCL.	UNCLASSIFIED EXCAVATION
GAL.	GALLON	P.T.	POINT OF TANGENCY	V	DESIGN SPEED
H.W.	HIGH WATER	PVMT.	PAVEMENT	V.C.	VERTICAL CURVE
IN.	INCHES	R.	RADIUS	VAR.	VARIABLE
K	SIGHT DISTANCE	R.R.	RAILROAD	W.	WEST
L.	LENGTH OF CURVE	REINF.	REINFORCED		

RUNOFF COEFFICIENT TABLE

							• • •		-			
_					HYDRO	LOGIC SOIL	GROUF)				
			A			В			С			D
			RANGE CENT)			RANGE CENT)			RANGE CENT)			RANGE RCENT)
LAND USE	0-2	2-6	6 & OVER									
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:									•			
ASPHALT	.70 – .95											
CONCRETE												
BRICK	.70 – .80											
DRIVES, WALKS		.75 – .85										
ROOFS						.75 – .						
GRAVEL ROADS, S	HOULDE	RS				.40	60					

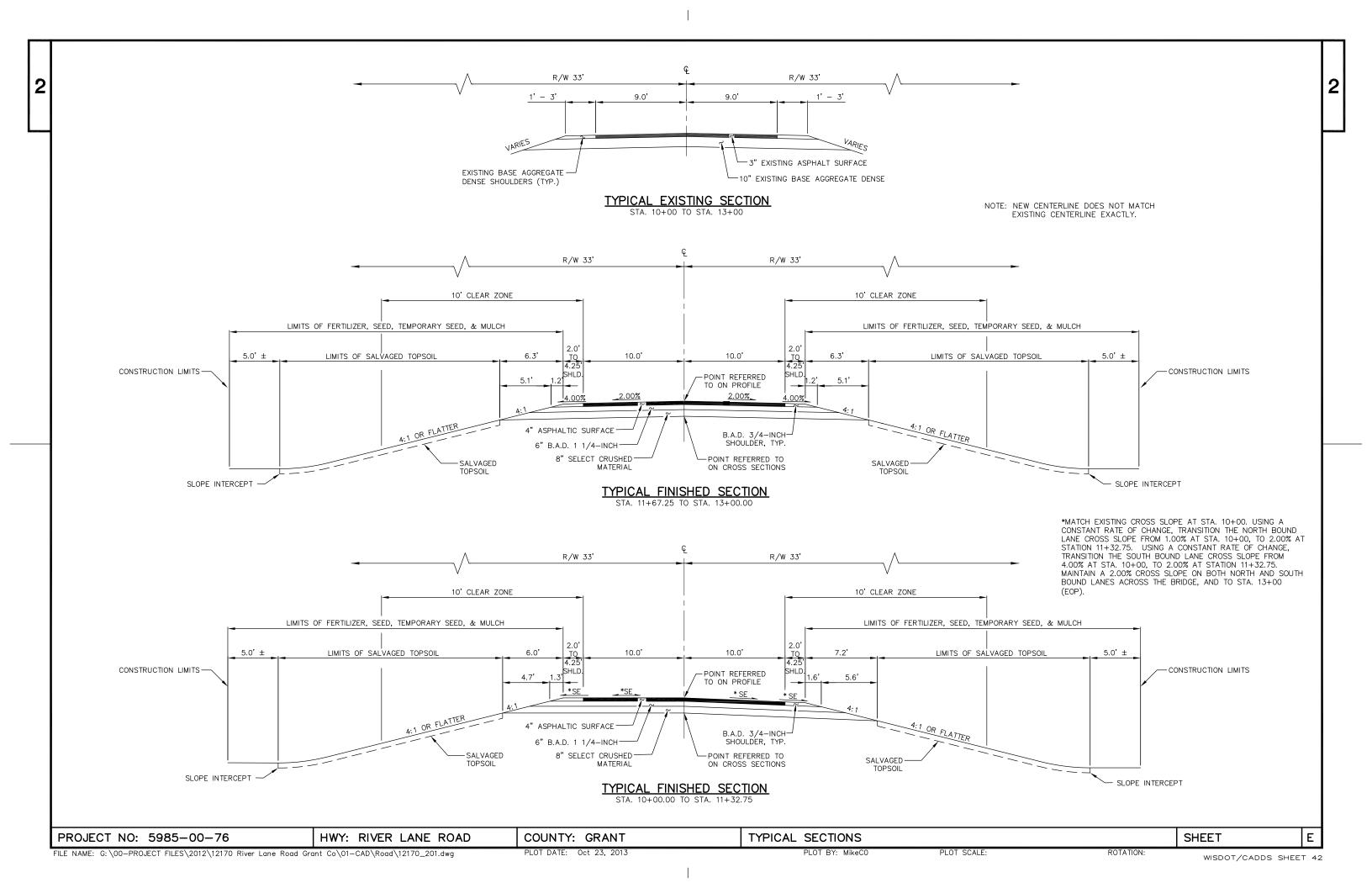
TOTAL PROJECT AREA = 0.45 ACRES

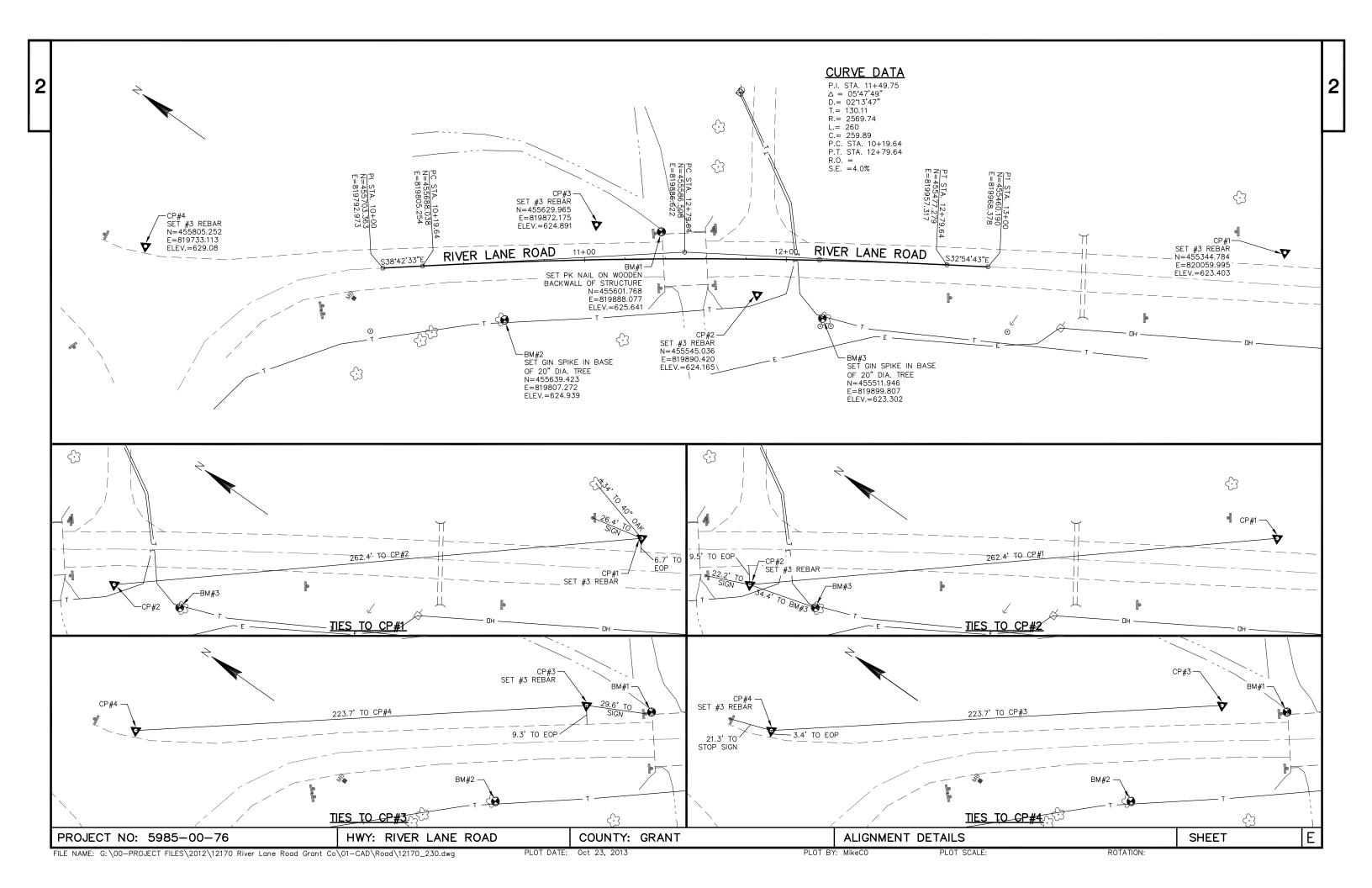
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.34 ACRES

UTILITIES, CONTACTS, AND GENERAL NOTES PROJECT NO: 5985-00-76 HWY: RIVER LANE ROAD COUNTY: GRANT

PLOT DATE: Oct 24, 2013

PLOT BY: MikeCO





NUMBER TIEM
O010 201.0105 CLEARING
0020 201.0205 GRUBBING CRUSTING
033.0600. S REMOVING OLD STRUCTURE OVER WATERWAY LS 1.000 1.000 WITH MINIMAL DEBRIS (STATION) 01. 11+50 CY 483.000 483.000 483.000 0050 206.1000 EXCAVATION COMMON **P*** CY 440.000 1.
WITH MINIMAL DEBRIS (STATION) 01. 11+50
O40 205.0100
(STRUCTURE) 01. B-22-0281 0060
0060 210.0100 BACKFILL STRUCTURE CY 440.000 440.000 0070 213.0100 FINISHING ROADWAY (PROJECT) 01. EACH 1.000 1.000 1.000 5985-00-76 0.000 0.
0070 213.0100
0070
S985-00-76 S98
0080 305.0110 BASE AGGREGATE DENSE 3/4-INCH
0090 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON 301.000 301.000 0100 312.0110 SELECT CRUSHED MATERIAL TON 463.000 463.000 0110 455.0605 TACK COAT GAL 20.000 20.000 0120 465.0105 ASPHALTIC SURFACE TON 155.000 155.000 0130 502.0100 CONCRETE MASONRY BRIDGES CY 152.000 152.000 0140 502.3200 PROTECTIVE SURFACE TREATMENT SY 130.000 130.000 0150 505.0405 BAR STEEL REINFORCEMENT HS BRIDGES LB 4,750.000 4,750.000 0160 505.0605 BAR STEEL REINFORCEMENT HS COATED LB 14,450.000 14,450.000 0170 513.4060 RAILING TUBULAR TYPE M (STRUCTURE) 01. LS 1.000 1.000 0170 513.4060 RAILING TUBULAR TYPE M (STRUCTURE) 01. LS 1.000 1.000 0170 513.4060 RAILING TUBULAR TYPE M (STRUCTURE) 01. LS 1.000 1.000 0170<
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110
0120
0120
0.130 502.0100 CONCRETE MASONRY BRIDGES CY 152.000 152.000 130.0000 130.0000 130.000 130.000 130.0000 130.0000 130.0000 130.000 130.000
0.140 0.15
0150 505.0405 BAR STEEL REINFORCEMENT HS BRIDGES LB 4,750.000 4,750.000
0160 505.0605 BAR STEEL REINFORCEMENT HS COATED LB 14,450.000 14,450.000 14,450.000 170 1513.4060 RAILING TUBULAR TYPE M (STRUCTURE) 01. LS 1.000 1.
BRIDGES RAILING TUBULAR TYPE M (STRUCTURE) 01. LS 1.000 1.000 1.000 1.2000 1.000
BRIDGES RAILING TUBULAR TYPE M (STRUCTURE) 01. LS 1.000 1.000 1.000 1.2000 1.000
0170
B-22-0281
0180 516.0500 RUBBERIZED MEMBRANE WATERPROOFING SY 22.000 22.000 0190 550.1100 PILING STEEL HP 10-INCH X 42 LB LF 805.000 805.000 0200 606.0700 GROUTED RIPRAP HEAVY CY 40.000 40.000 0210 612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH LF 120.000 120.000 0220 619.1000 MOBILIZATION EACH 1.000 1.000 0230 625.0500 SALVAGED TOPSOIL SY 256.000 256.000 0240 627.0200 MULCHING SY 1,150.000 1,150.000 0250 628.1504 SILT FENCE LF 600.000 600.000 0260 628.1520 SILT FENCE MAINTENANCE LF 1,200.000 1,200.000 0270 628.2039 EROSION MAT CLASS III TYPE D SY 100.000 100.000 0280 628.7504 TEMPORARY DITCH CHECKS LF 75.000 75.000 0290 629.0210 FERTILIZER TYPE B CWT
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0340 638.2602 REMOVING SIGNS TYPE II EACH 5.000 5.000 0350 638.3000 REMOVING SMALL SIGN SUPPORTS EACH 4.000 4.000 0370 643.0100 TRAFFIC CONTROL (PROJECT) 01. 5985-00-76 EACH 1.000 1.000 1.000
0350 638.3000 REMOVING SMALL SIGN SUPPORTS EACH 4.000 4.000 0360 642.5001 FIELD OFFICE TYPE B EACH 1.000 1.000 0370 643.0100 TRAFFIC CONTROL (PROJECT) 01. 5985-00-76 EACH 1.000 1.000
0360 642.5001 FIELD OFFICE TYPE B EACH 1.000 1.000 0370 643.0100 TRAFFIC CONTROL (PROJECT) 01. 5985-00-76 EACH 1.000 1.000
0370 643.0100 TRAFFIC CONTROL (PROJECT) 01. 5985-00-76 EACH 1.000 1.000
0370 643.0100 TRAFFIC CONTROL (PROJECT) 01. 5985-00-76 EACH 1.000 1.000
0390 650.4500 CONSTRUCTION STAKING SUBGRADE LF 265.000 265.000
0400 650.5000 CONSTRUCTION STAKING BASE LF 265.000 265.000
0410 650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT LS 1.000 1.000
(STRUCTURE) 01. B-22-0281
0420 650.9910 CONSTRUCTION STAKING SUPPLEMENTAL LS 1.000 1.000
CONTROL (PROJECT) 01. 5985-00-76
0430 650.9920 CONSTRUCTION STAKING SLOPE STAKES LF 265.000 265.000
0440 690.0150 SAWING ASPHALT LF 36.000 36.000
0450 715.0502 INCENTIVE STRENGTH CONCRETE STRUCTURES DOL 912.000 912.000

CLEARING AND GRUBBING

STATION - STATION	LOCATION	201.0105 CLEARING (STA)	201.0205 GRUBBING (STA)
10+50 - 11+50	MAINLINE	1	1
11+50 - 13+00	MAINLINE	1	1
	TOTALS	2	2

BASE AGGREGATE DENSF

ASE AGGREGATE	DENSE	305.0110 ¾−INCH BASE	305.0120 1¼-INCH BASE
STATION _ STATION	LOCATION	(TON)	(TON)
10+00.00 _ 11+32.75	MAINLINE	20	148
11+67.25 _ 13+00.00	MAINLINE	16	153
	TOTAL	36	301

SELECT CRUSHED MATERIAL

312.0110 SELECT CRUSHED (TON) STATION - STATION LOCATION 10+00.00 - 11+32.75 MAINLINE 228 11+67.25 - 13+00.00 MAINLINE 235 TOTAL 463

3

ASPHALTIC ITEMS

STATION - STATION	LOCATION	455.0605 TACK COAT (GAL)	465.0105 ASPHALTIC SURFACE (TON)
10+00.00 - 11+32.75	MAINLINE	9	71
11+67.25 - 13+00.00	MAINLINE	11	84
	TOTALS	20	155

FINISHING ITEMS

	-				630.0120		
		625.0500		629.0210	SEEDING	630.0200	
		SALVAGED TOPSOIL	627.0200 MULCHING	FERTILIZER TYPF B	MIXTURE NO. 20	SEEDING TEMPORARY	
STATION - STATION	LOCATION	(SY)	(SY)	(CWT)	(LB)	(LB)	
10+00.00 - 11+32.75	MAINLINE	133	475	0.30	12.8	12.8	
11+67.25 - 13+00.00	MAINLINE	123	457	0.29	12.3	12.3	
	UNDISTRIBUTED		218	0.16	6.4	6.4	
_	TOTALS	256	1150	0.75	31.5	31.5	
	TOTALS	256	1150	0.75	31.5		31.5

EROSION CONTROL ITEMS

STATION - STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.2039 EROSION MAT CLASS III TYPE D (SY)	628.7504 TEMPORARY DITCH CHECKS (LF)
10+00.00 - 11+32.75	MAINLINE, LT & RT	250	500		
11+67.25 - 13+00.00	MAINLINE, LT & RT	250	500		
	UNDISTRIBUTED	100	200	100	75
	TOTALS	600	1200	100	75

SIGNS REFLECTIVE TYPE II F & POSTS WOOD 4x6-INCH 12-FT

STATION	LOCATION	CODE	DESCRIPTION	634.0612 (EACH)	637.2230 (SF)
11+32	MAINLINE, RT	W5-52R	CLEARENCE STRIPER	1	3
11+32	MAINLINE, LT	W5-52L	CLEARENCE STRIPER	1	3
11+67	MAINLINE, RT	W5-52R	CLEARANCE STRIPER	1	3
11+67	MAINLINE, LT	W5-52L	CLEARANCE STRIPER	1	3
			TOTALS		12

REMOVING SIGNS TYPE II & REMOVING SMALL SIGNS SUPPORTS

STATION	LOCATION	CODE	DESCRIPTION	638.2602 (EACH)	638.3000 (EACH)
11+32	MAINLINE, RT	W5-52R	CLEARENCE STRIPER	1	1
11+32	MAINLINE, LT	W5-52L	CLEARENCE STRIPER	1	1
11+67	MAINLINE, RT	W5-52R	CLEARANCE STRIPER	1	1
11+67	MAINLINE, LT	W5-52L	CLEARANCE STRIPER	1	1
11+67	MAINLINE, LT	R12-1	WEIGHT LIMIT	1	
			TOTALS	5	4

LAYOUT ITEMS

		CONSTRUCTION STAKING	CONSTRUCTION STAKING	CONSTRUCTION STAKING
STATION - STATION	LOCATION	SUBGRADE (LF)	BASE (LF)	SLOPE STAKES (LF)
10+00 - 13+00	MAINLINE	265	265	265
	TOTALS	265	265	265

SAWING ASPHALT

STATION	LOCATION	690.01 (LF)
10+00.00	MAINLINE	18
13+00.00	MAINLINE	18
	TOTAL	.36

NOTE: UNLESS NOTED, ALL ITEMS ARE IN CATEGORY 0010.

MISCELLANEOUS QUANTITIES (1 OF 2) COUNTY: GRANT PROJECT NO: 5985-00-76 HWY: RIVER LANE ROAD

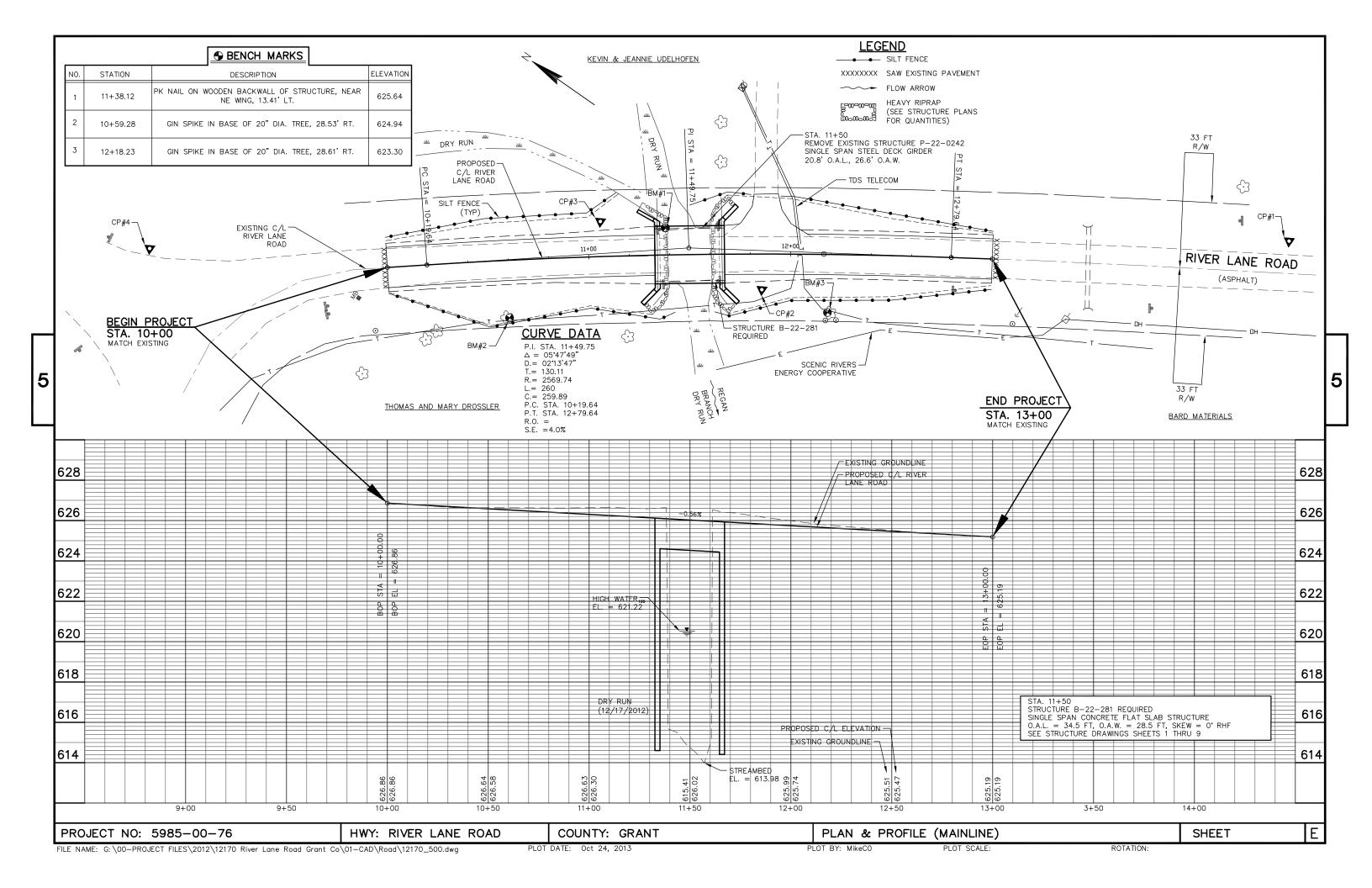
WISDOT/CADDS SHEET 43

SHEET

NOTE: UNLESS NOTED, ALL ITEMS ARE IN CATEGORY 0010.

PROJECT NO: 5985-00-76 HWY: RIVER LANE ROAD COUNTY: GRANT MISCELLANEOUS QUANTITIES (2 OF 2) SHEET

E



Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
	•
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-06	SIGNING & MARKING FOR TWO LANE BRIDGES

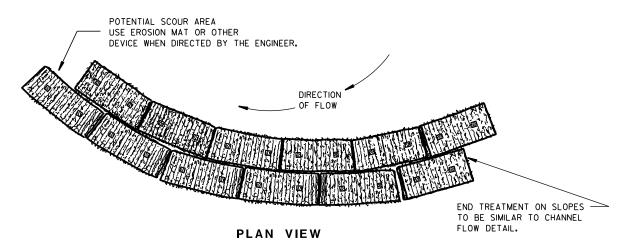
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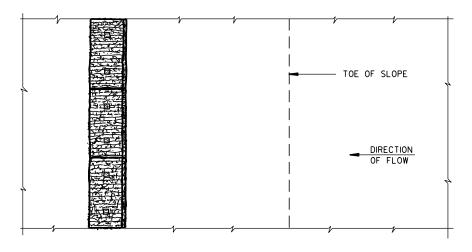
GENERAL NOTES

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.

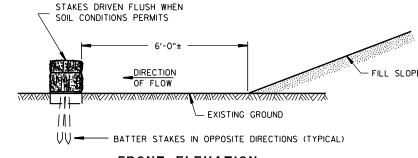
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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

6

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

6

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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.

- ① 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)

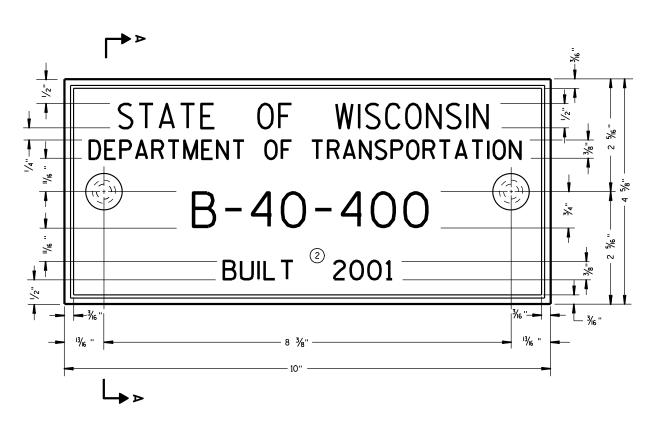


SILT FENCE

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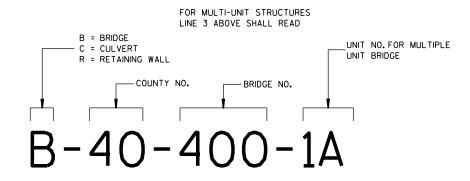
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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



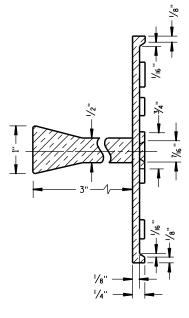
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

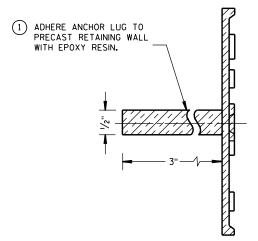
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

APPROVED

 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

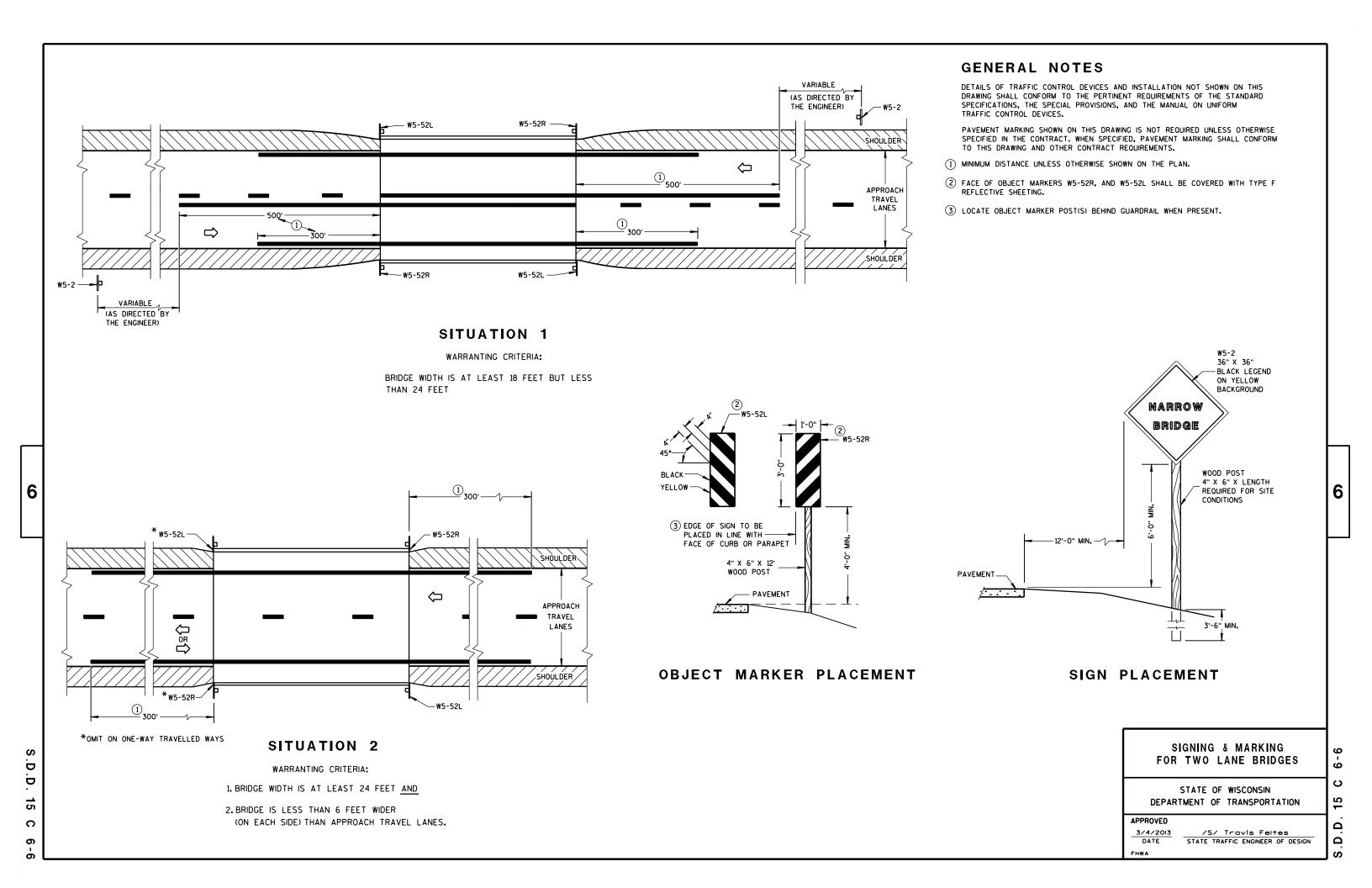
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

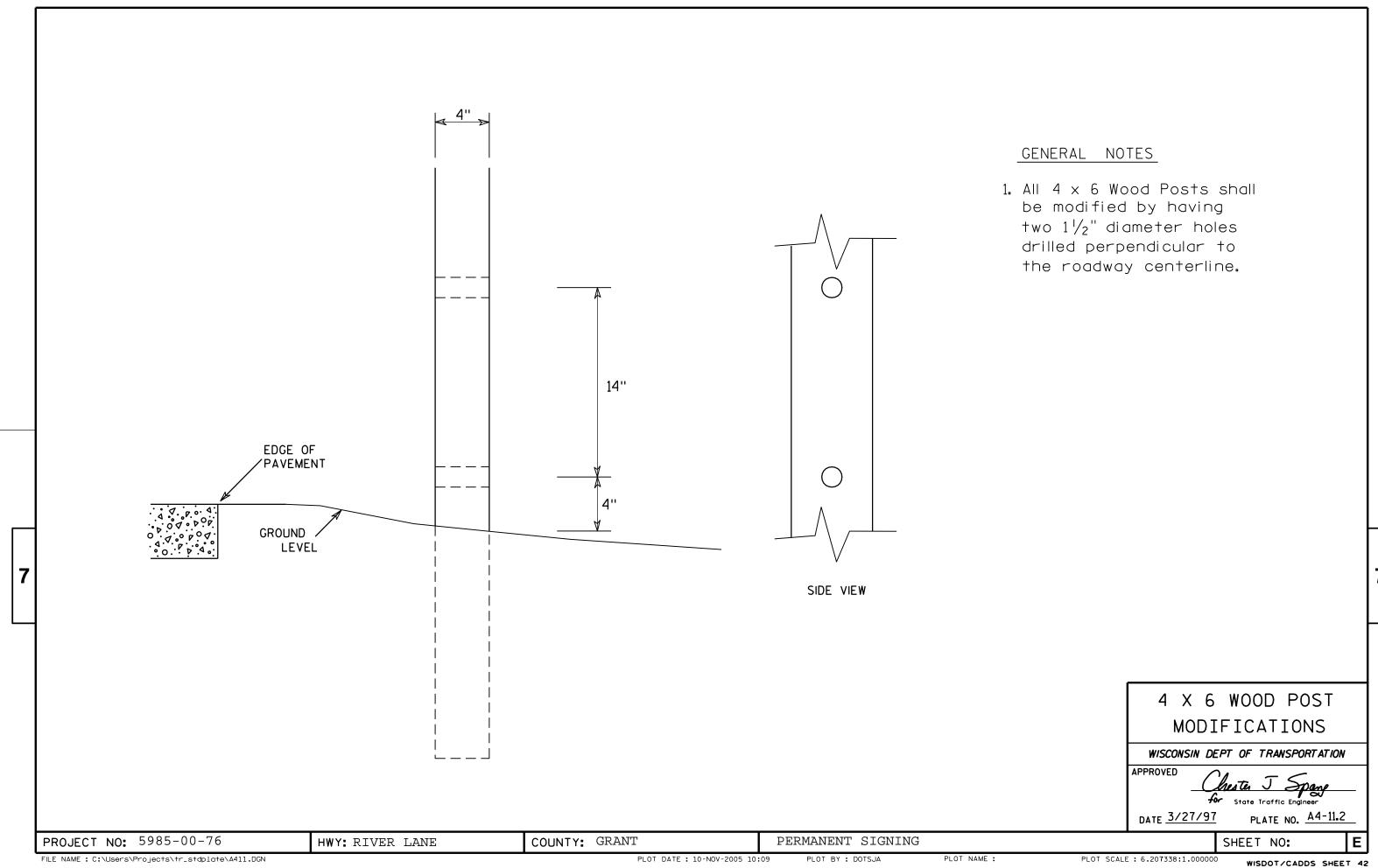
/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

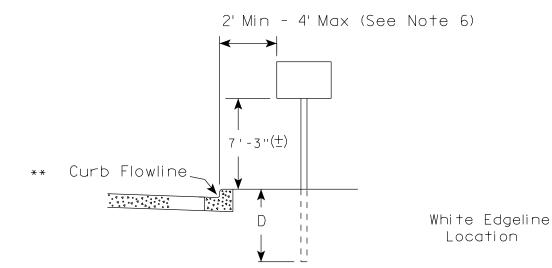
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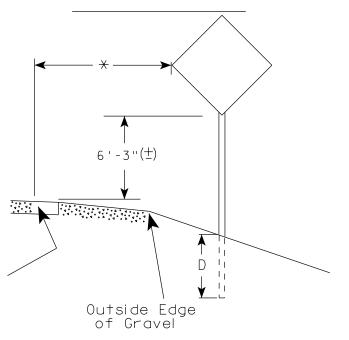




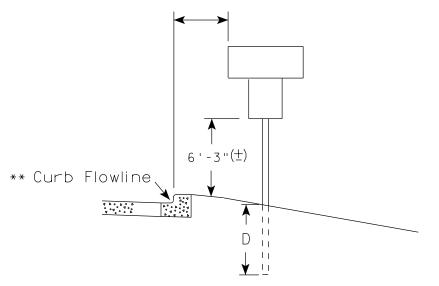
urban area



RURAL AREA (See Note 2)



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



White Edgeline
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.

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" $(\underline{+})$ or 6'-3" $(\underline{+})$ depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) 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 (\pm) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (\pm) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

PLOT NAME :

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauch
For State Traffic Engineer

DATE <u>9/30/13</u>

PLATE NO. <u>A4-3.18</u>

HWY: RIVER LANE

COUNTY: GRANT

PERMANAENT SIGNING

SHEET NO:

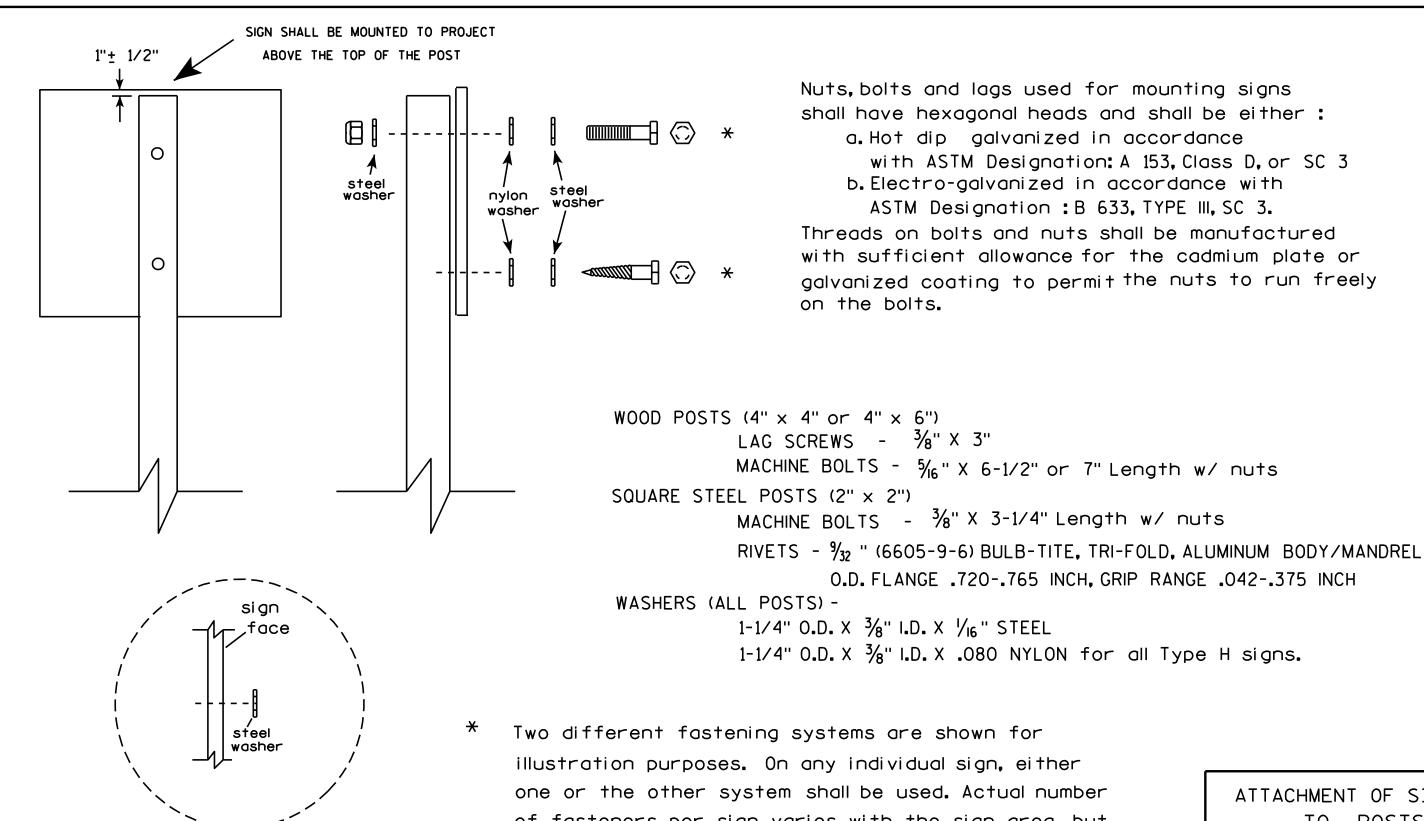
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN

PROJECT NO: 5985-00-76

PLOT DATE: 30-SEP-2013 13:25 PLOT BY: mscj9h

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



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

Matther For State Traffic Engineer

SHEET NO:

DATE 3/23/10

PLATE NO. 44-8.7

PROJECT NO: 5985-00-76

HWY: RIVER LANE

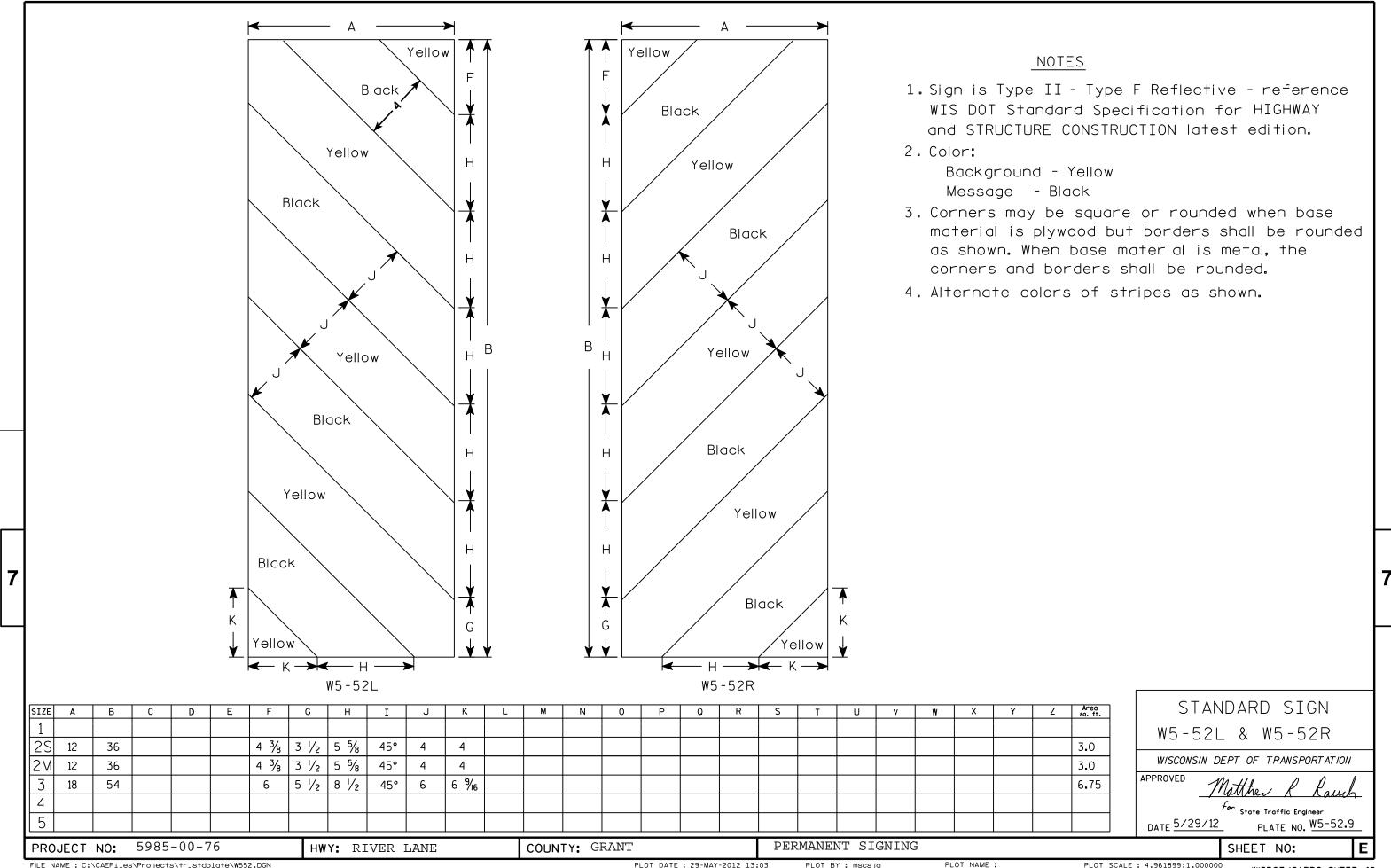
Washer Placement when Sign

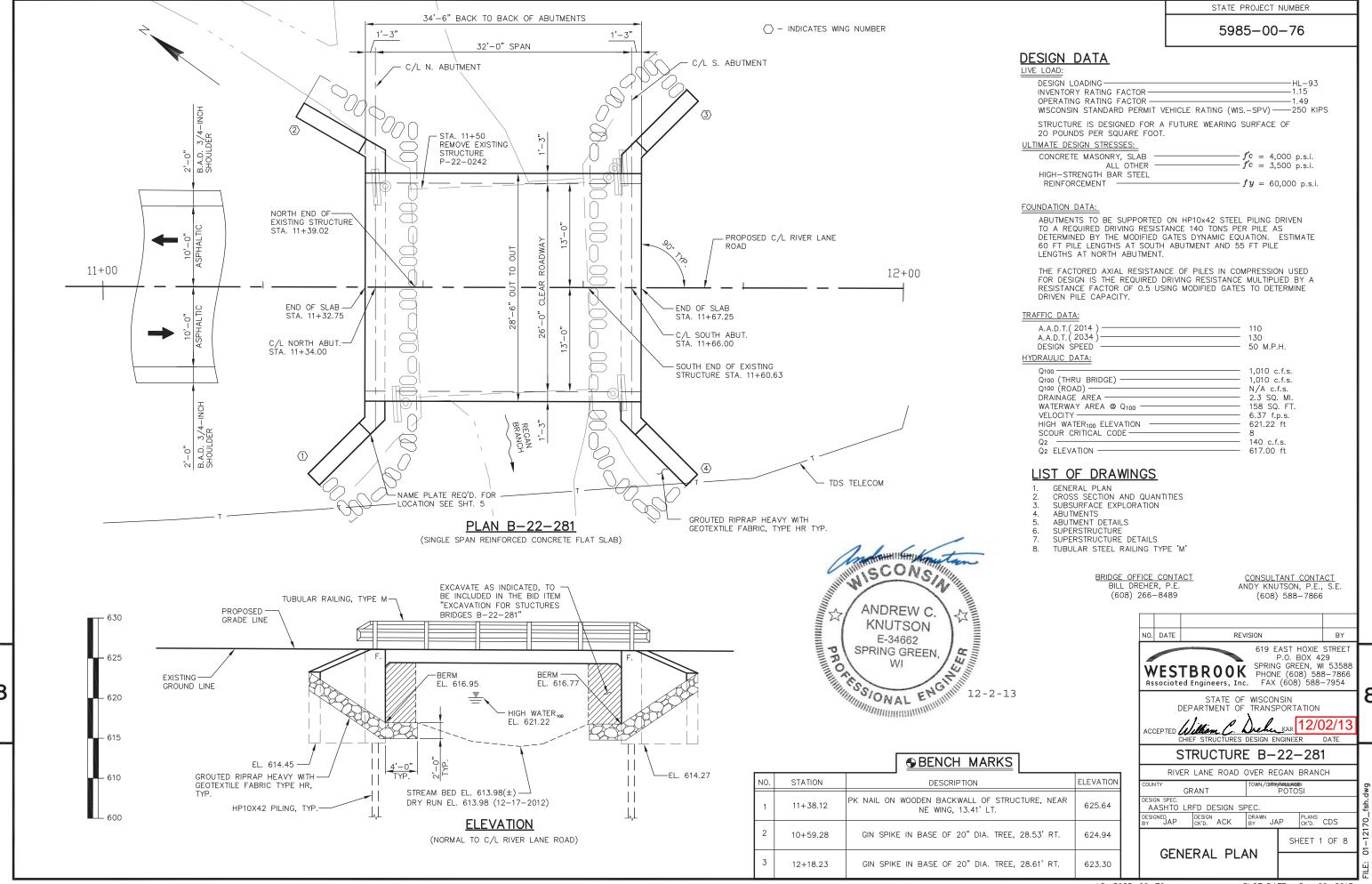
Has Other Than Type H or

COUNTY: GRANT

PERMANENT SIGNING PLOT BY : dit iph

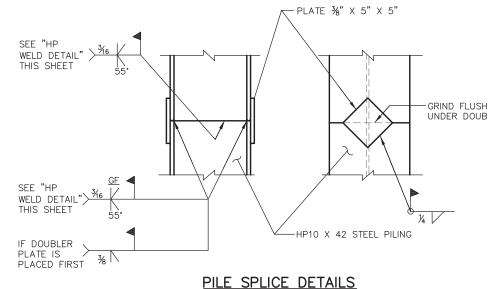
Type F Face





	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SLAB	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 11+50	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-22-281	LS				1
210.0100	BACKFILL STRUCTURE	CY	220	220		440
502.0100	CONCRETE MASONRY BRIDGES	CY	45	45	62	152
502.3200	PROTECTIVE SURFACE TREATMENT	SY			130	130
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2375	2375		4750
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1475	1475	11500	14450
513.4060	RAILING TUBULAR TYPE M STRUCTURE B-22-281	LS				1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	11	11		22
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	420	385		805
606.0700	GROUTED RIPRAP HEAVY	CY	20	20		40
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	60	60		120
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	60	60		120
NON-BID ITEM) FILLER	SIZE				1/2" & 3/4'

8



NO. DATE REVISION BY

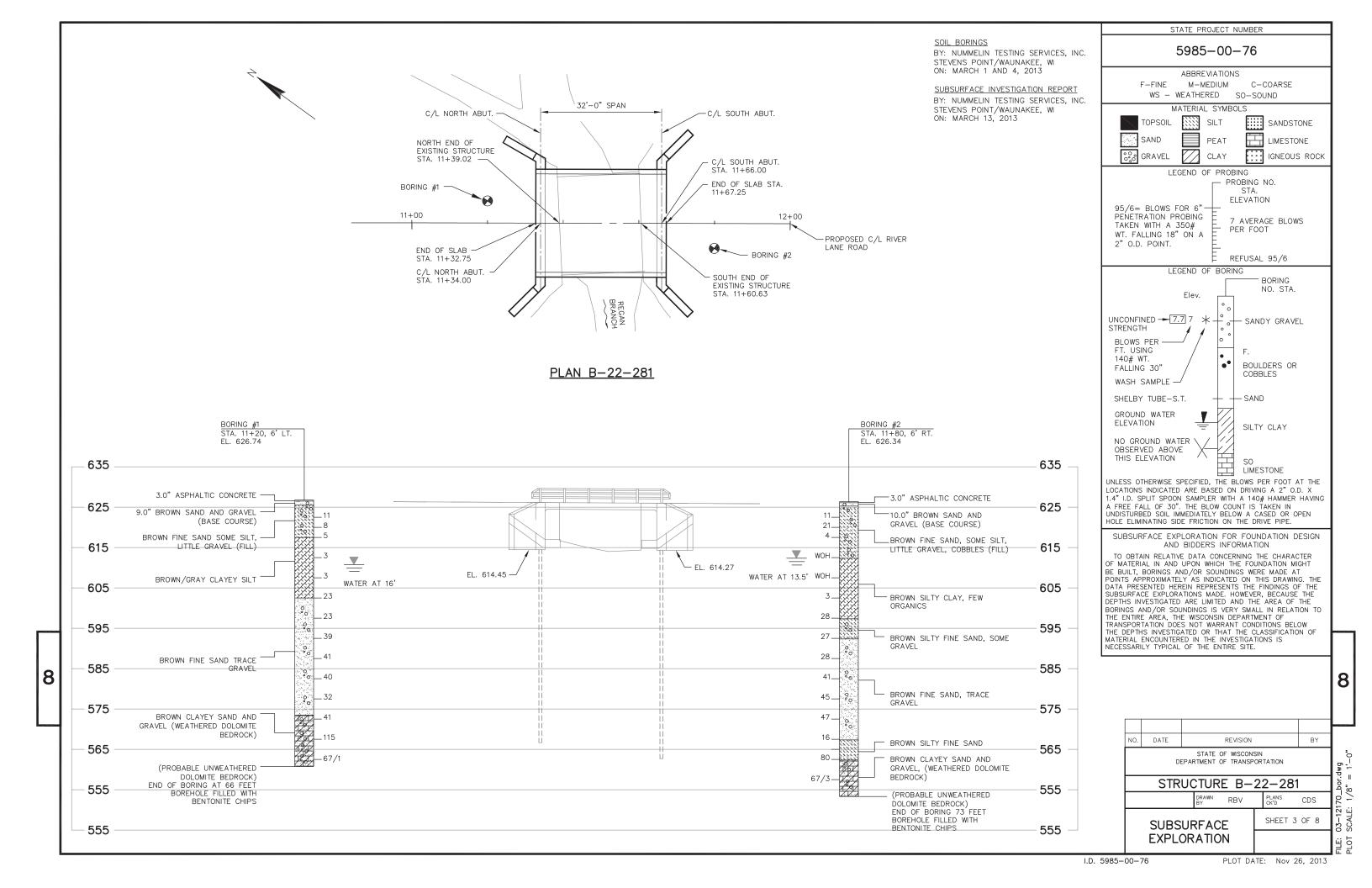
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

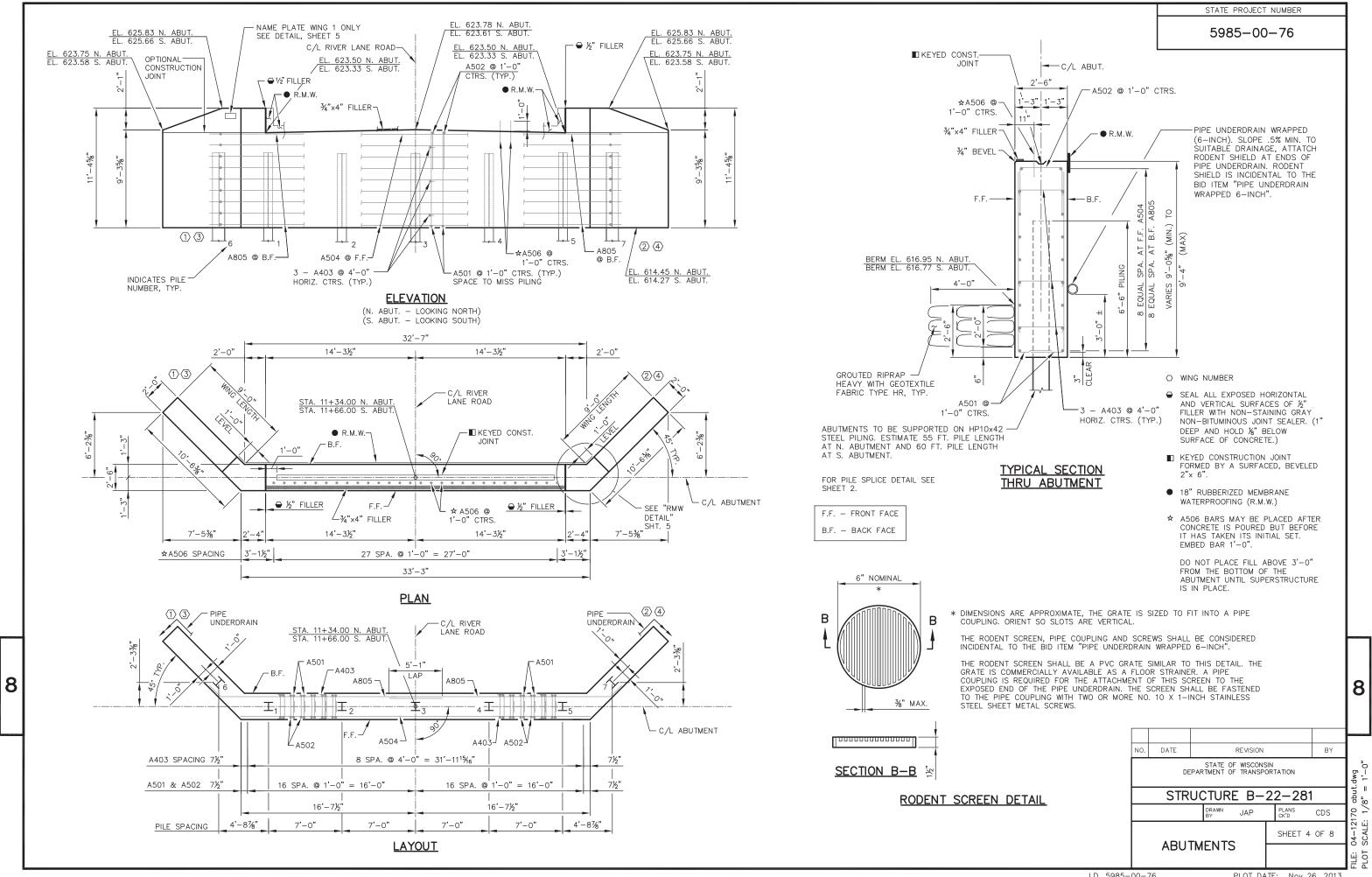
STRUCTURE B-22-281

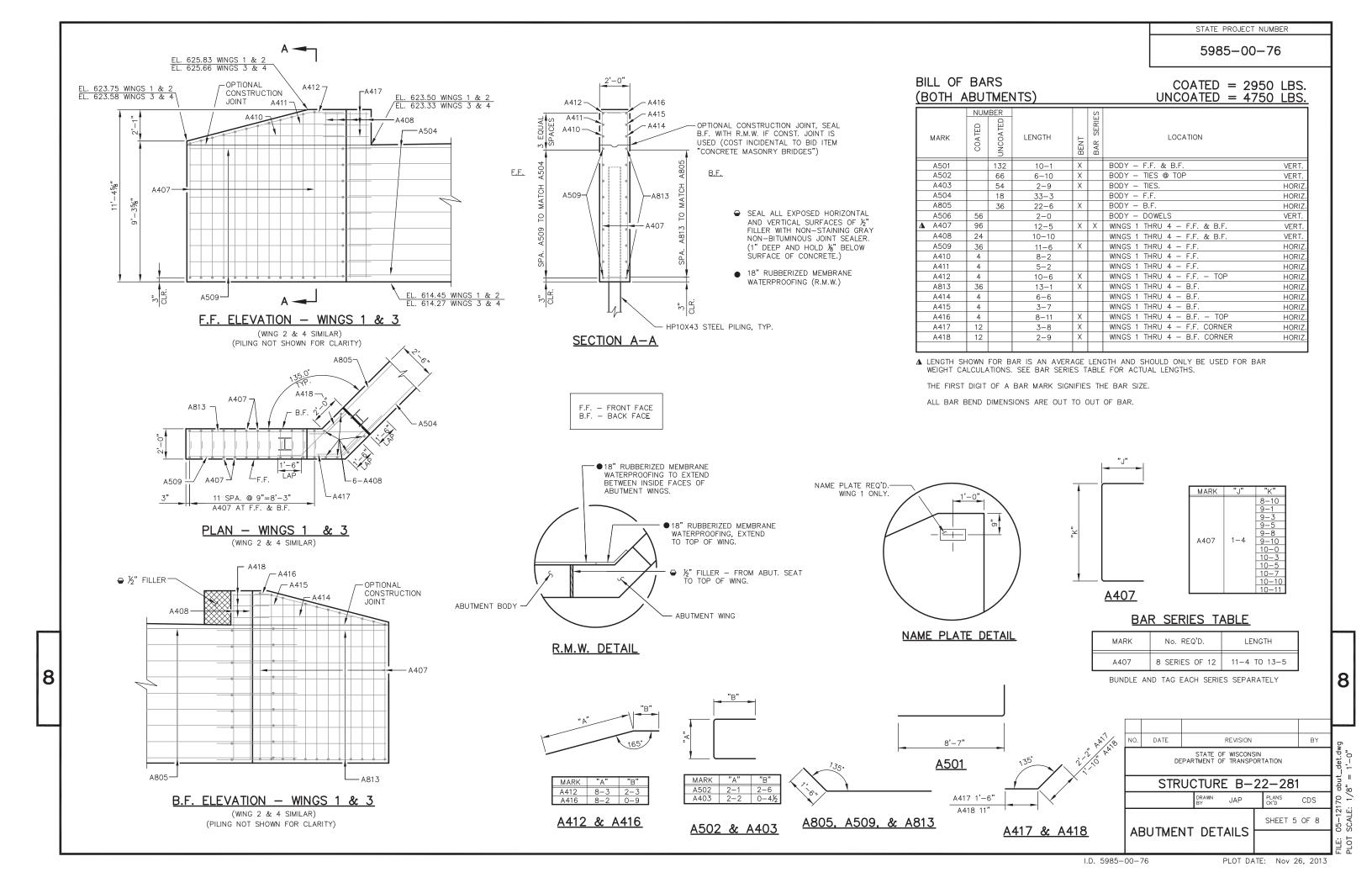
BRAWN JAP PLANS CDS

CROSS SECTION
AND

ROSS SECTION
AND
QUANTITIES

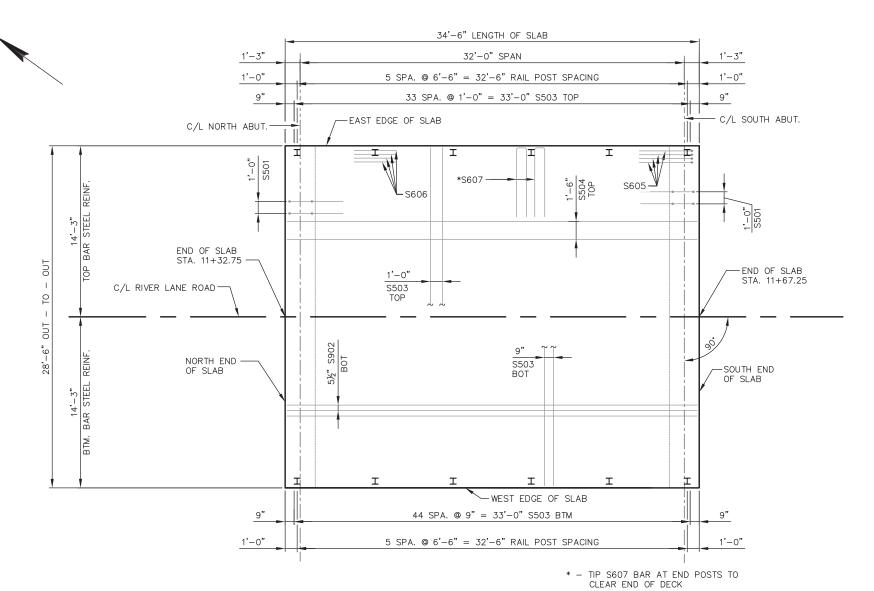






STATE PROJECT NUMBER

5985-00-76



NOTES:

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY.

BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0'' CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

	TOP OF	DECK ELE	EVATIONS	
STA.	SPAN PT.	& RIVER LANE RD.	W. DECK EDGE	E. DECK EDGE
11+34.00	0.0	626.11	625.83	625.83
11+37.20	0.1	626.10	625.82	625.82
11+40.40	0.2	626.08	625.80	625.80
11+43.60	0.3	626.06	625.78	625.78
11+46.80	0.4	626.04	625.76	625.76
11+50.00	0.5	626.03	625.75	625.75
11+53.20	0.6	626.01	625.73	625.73
11+56.40	0.7	625.99	625.71	625.71
11+59.60	0.8	625.97	625.69	625.69
11+62.80	0.9	625.95	625.67	625.67
11+66.00	1.0	625.94	625.66	625.66

<u>PLAN</u>

8

-MID-SPAN OF STRUCTURE SYMMETRICAL ABOUT THIS LINE UNLESS OTHERWISE NOTED. 16 SPA. @ 1'-0" = 16'-0" S503 TOP -C/L ABUTMENT S503-END OF SLAB-S503-18" RUBBERIZED-MEMBRANE S902 -S503 WATERPROOFING ☆ A506 4"x¾" FILLER ¾" BEVEL (TYP.)-22 SPA. @ 9" = 16'-6" S503 BTM 16'-0" PARTIAL LONGITUDINAL SECTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-22-281

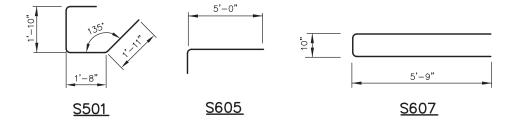
☆ SEE SHEET 4 FOR PLACEMENT OF A506 BARS.

BILL OF BARS **SUPERSTRUCTURE**

COATED = 11500 LB

LBS.	5985-00-76

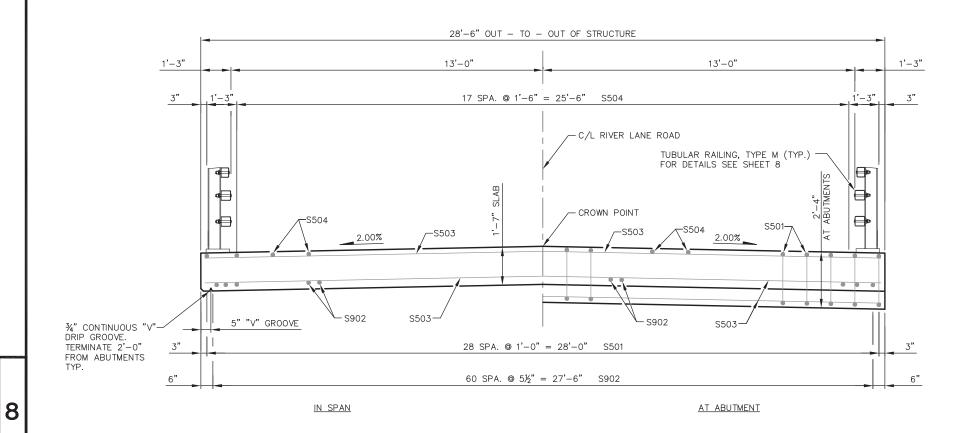
	NUM RC				S				
MARK	COATED	UNCOATED	LENGTH	BENT	BAR SERIE	LOCATION			
S501	58		6-5	Х		SLAB AT ABUTMENT - TIES	LONGIT.		
S902	61		34-2			SLAB - BOTTOM	LONGIT.		
S503	83		28-2			SLAB - TOP & BOTTOM	TRANS.		
S504	20		34-2			SLAB - TOP	LONGIT.		
● S605	16		6-0	Х		SLAB AT EXTERIOR RAIL POSTS	LONGIT.		
● S606	32		6-0			SLAB AT INTERIOR RAIL POSTS	LONGIT.		
● S607	24		12-0	Х		SLAB AT ALL RAIL POSTS	TRANS.		

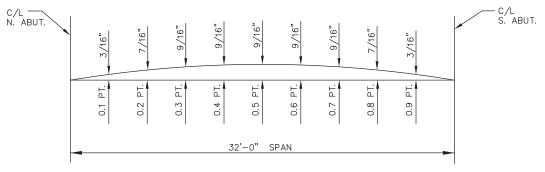


SEE SHEETS 6 & 8 FOR PLACEMENT.

THE FIRST DIGIT OF A 3 DIGIT MARK OR THE FIRST TWO DIGITS OF A 4 DIGIT MARK SIGNIFIES THE BAR SIZE.

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.





SLAB CAMBER DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

SURVEY TOP OF SLAB ELEVATIONS

	NORTH ABUTMENT	5/10 PT.	SOUTH ABUTMENT
WEST EDGE OF SLAB			
© RIVER LANE RD			
EAST EDGE OF SLAB			

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

SECTION THROUGH DECK

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

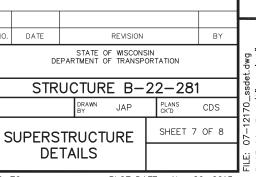
TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS

LESS

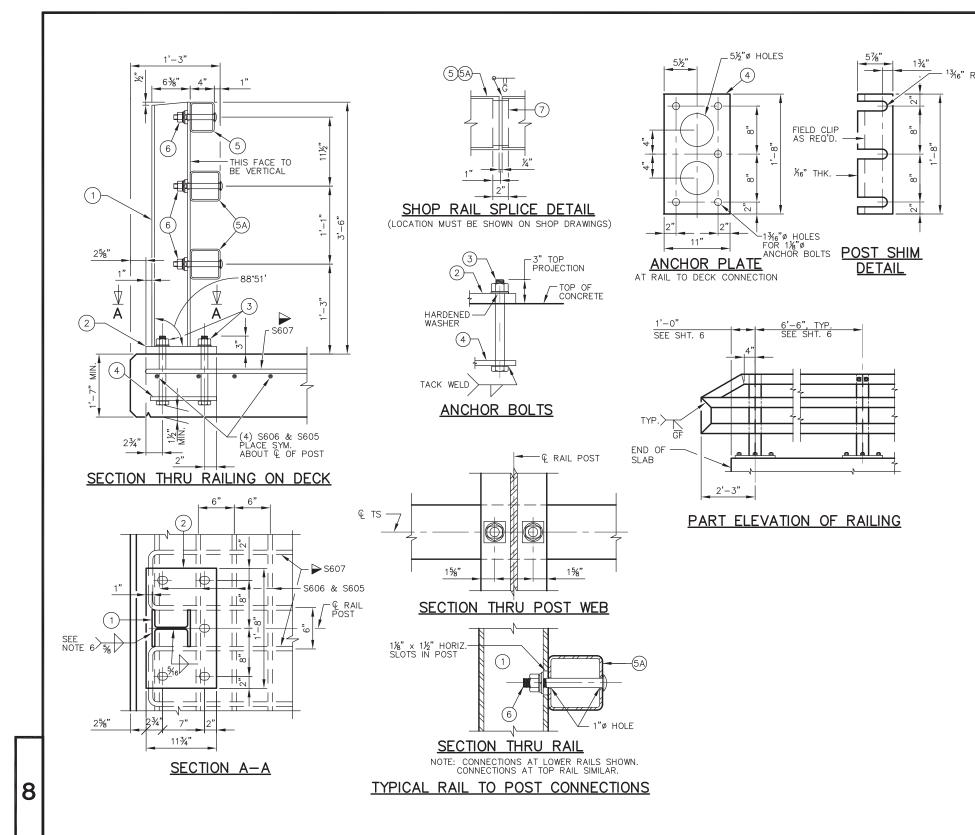
PLUS CAMBER

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

EQUALS TOP OF SLAB FALSEWORK ELEVATION.



STATE PROJECT NUMBER



TIE TO TOP MAT OF STEEL.

LEGEND

- (1) W6 x 25 WITH 11/8" X 11/2" HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- 2 PLATE 1½" x 11½" x 1'-8" WITH 1%6" X 1%6" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- ASTM A449 1½" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10¾" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS
- 4 % " x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1% DIA. HOLES FOR ANCHOR BOLTS NO. 3
- (5) TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- (5A) TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- 7 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".

GENERAL NOTES

- 1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-22-281" WHICH INCLUDES ALL ITEMS SHOWN.
- 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 ksi. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- 7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS
- 8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.
- 10. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).
- 11. PLACE FIRST BOTTOM LONGITUDINAL BAR CLEAR OF DRIP GROOVE.

BY DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-22-281

TUBULAR STEEL

SHEET 8 OF 8 RAILING, TYPE M

CDS

DIVISION 1 MAINLINE APPROACH 1

			AREA (SF)		Incremental V	ol (CY) (Unadju	Cumulative V	ol (CY)	
	Real Station		Cut	Fill	Cut	Fill	Cut	Expanded Fill	Mass Ordinate
STATION		Distance				1000000	1.00	1.3	
					Note 1	Note 3	Note 1		
10+00.00	1000		42	0	0	0	0	0	0
10+50.00	1050	50	53	1	88	1	88	1	87
11+00.00	1100	50	57	0	101	1	189	3	186
11+32.75	1133	33	40	0	59	0	248	3	245
			Column totals		248	2			

DIVISION 1 MAINLINE APPROACH 2

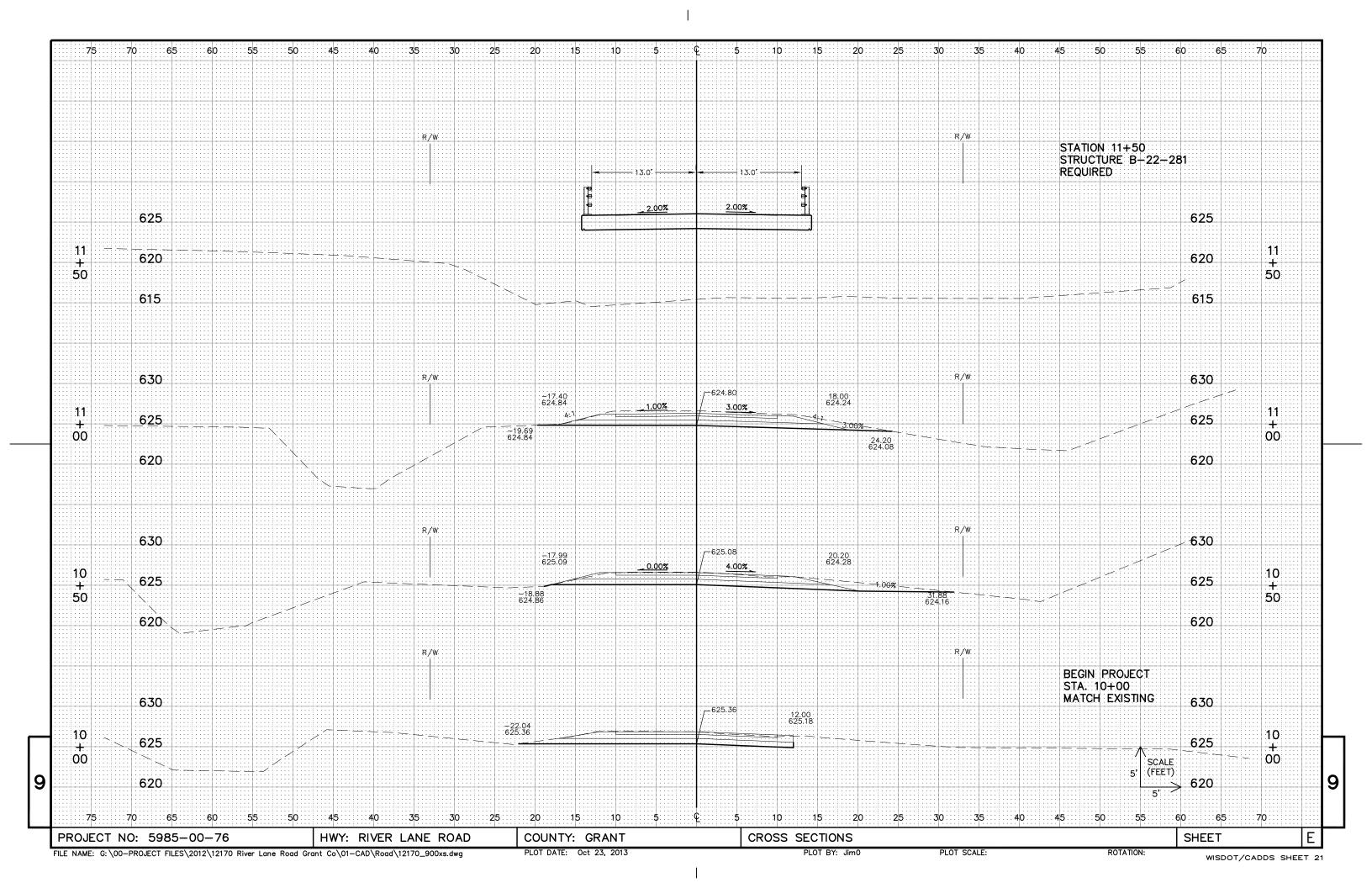
					AREA (SF)		Incremental V	ol (CY) (Unadju	Cumulative V	ol (CY)	
	Real Station		Cut	Fill	Cut	Fill	Cut	Expanded Fill	Mass Ordinate		
STATION		Distance				1.00	1.3				
					Note 1	Note 3	Note 1				
11+67.25	1167		39.5	0.0	0	0	0	0	0		
12+00.00	1200	33	56.7	0.0	58	0	58	0	58		
12+50.00	1250	50	45.5	0.0	95	0	153	0	153		
13+00.00	1300	50	44.2	0.0	83	0	236	0	236		
								_			
			Column totals		236	0					

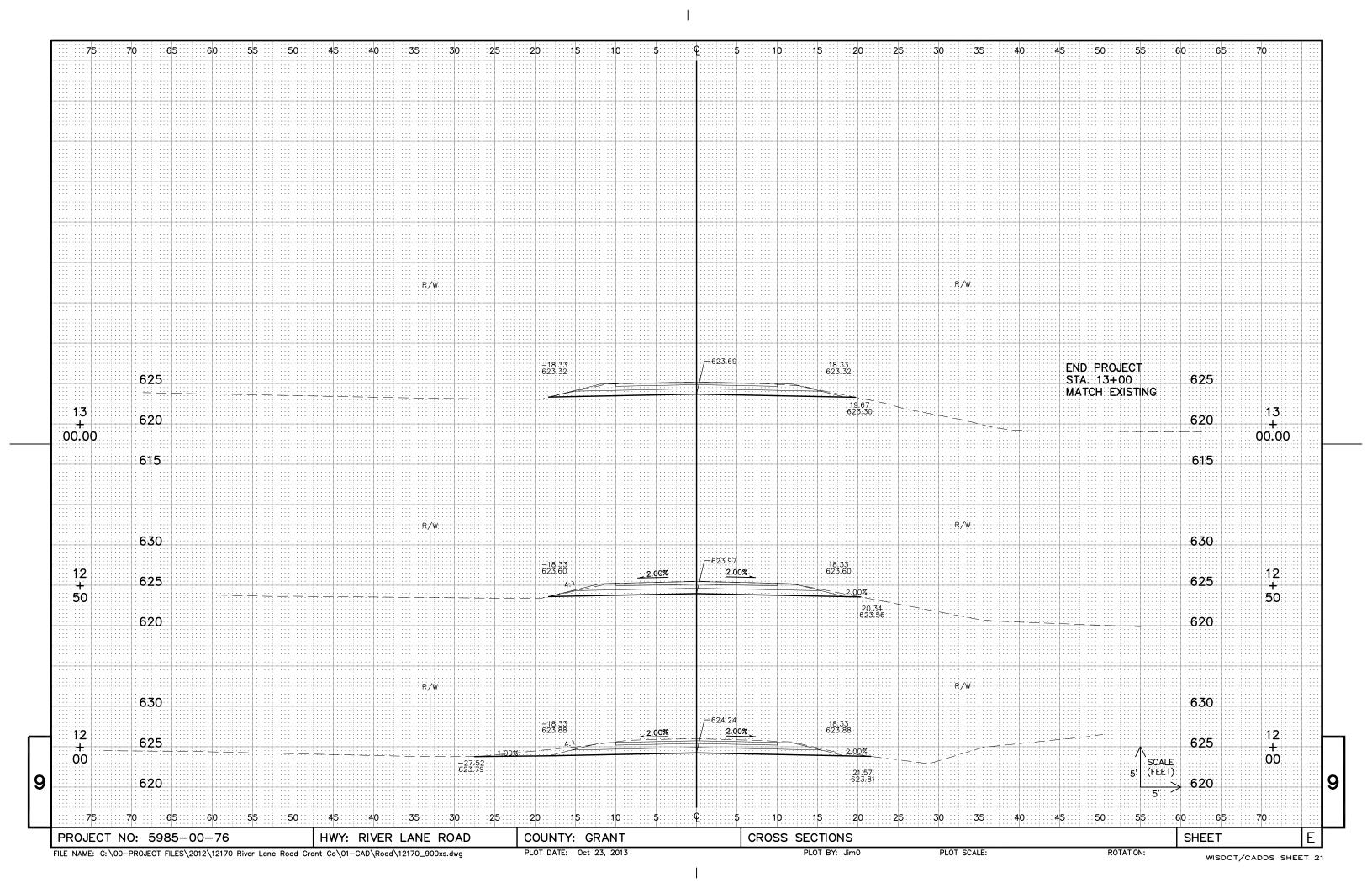
Notes:		
1 - Cut	Cut includes Salvaged/Unusable Pavement material	
3 - Fill	Does not include Unusable Pavement Exc volume	

9

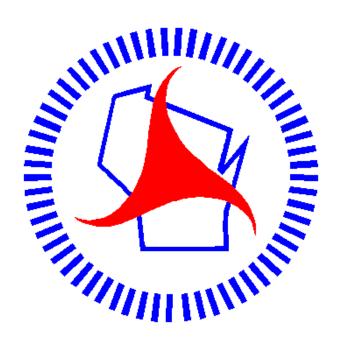
9

PROJECT NO: 5985-00-76 HWY: RIVER LANE ROAD COUNTY: GRANT EARTHWORK SHEET E





Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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