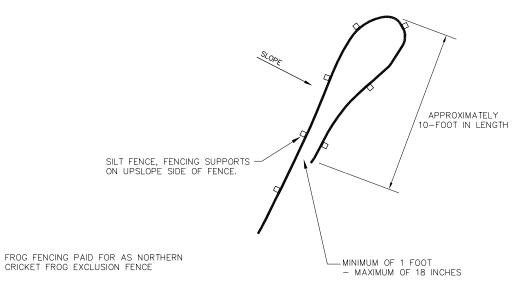
APRIL 2014 ORDER OF SHEETS		
	STATE PROJECT	FEDERAL PROJECT PROJECT CONTRA
Section No. 1 Title Section No. 2 Typical Sections and Details (includes Erosion Control) Section No. 2 Typical Sections and Details (includes Erosion Control)	5108-00-74	WISC 2014097 1
Section No. 3 Estimate of Quantities DEDARTMENT OF TRANSPORTATION		11100 201 1007
Section No. 3 Miscellaneous Quantities DLFANIIVILINI OI INANSFONIA IIVIN Section No. 4 Right of Way Plat		
Section No. 5 Plan and Profile PLAN OF PROPOSED IMPROVEMENT		
Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates		
	A D	
Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections TOWN OF ELLENBORO, AIRPORT RO. Section No. 9 Cross Sections	AU	
Section No. 9 Cross Sections (BRANCH PLATTE RIVER BRIDGE B	(-22-0280)	ACCEPTED FOR
TOTAL SHEETS = 48		TOWN of ELLENBORO
CDANT COUNTY		11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1
GRANT COUNTY		10/24/2013 James northelin
STATE PROJECT NUMBER	IND PROJECT	(Dale) // Town Chairpersón
GRANT COUNTY F109 00 74	STA. 11+50	ACCEPTED FOR
	= 501138.93	
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	= 841078.28	OfGRANT
	97:3	10/23/13 Dail Bank
(126) 83 WOON BD:		(Date) County Highway Commissioner
STRUCTURE STRUCTURE	CHURCH RD	IIW, P.C.
B-22-0280	Br D Z	II(A)
RD COND	WATERPALL	INTEGRITY. EXPERTISE. SOLUTIONS.
T-4-N Solver Trillow	DUTCHES 3	DUBUQUE, IA HAZEL GRBEN, WI 4155 PENNSYLVANIA AVE. 1151 BADGER RD,
DESIGN DESIGNATION	RD 5	DUBUQUE, IA 52002 HAZEL GREEN, WI 53811 800-556-4491 www.iiwenuc.com
A.A.D.T. (2013) = 75	SAM & DAN	223187 3888888.
A.A.D.T. (2034) = 95 D.H.V. = N/A BEGIN PROJECT 35	NAS IN	HINNECON SAM
D.D. = N/A STA 9+00	RIGHTER RAWSON SPLIN	PRADITY
DESIGN SPEED = 25 mph $Y = 500923.45$	31 BUISON! RD	B9ADLEY J. MOOTZ E-38375
ESALS = 14,600 X = 840963.70	-(81) - SORTH WALL DE ST	E-38975 SHULLSBURG
	PINE CROWE NO	WI WI
CONVENTIONAL SYMBOLS		Management College of the College of
PLAN PROFILE CORPORATE LIMITS PROFILE GRADE LINE SHADE LINE	RD Z	Water ONAL WATER
PROPERTY LINE ORIGINAL GROUND		10/28/2013
MARSH OR ROCK PROFILE LOT LINE MARSH OR ROCK PROFILE T-3-N RD RD RD RD RD RD RD RD RD R	FOLINTAIN OLLIFF RD	(Date) (Aggnature)
LIMITED HIGHWAY EASEMENT SPECIAL DITCH LABEL EXISTING RIGHT OF WAY ROCKVILE RIPORELY RIPORELY REPORTED RIPORELY REPORTED RIPORELY RIPOR	TUMPTOWN NO	
PROPOSED OR NEW R/W LINE ———— GRADE ELEVATION [6]		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
	atteville 18 [PREPARED BY
REFERENCE LINE UTILITIES ELECTRIC E TOTALIST TOTALI	COLLEGE	Surveyor IIW, P.C. Designer IIW, P.C.
EXISTING CULVERT FIBER OPTIC FO— PROPOSED CULVERT OAS	AND ATTEMPT	K KANASAK ENGINEEDO IN
(Box or Pipe) A SANITARY SEWER — SAN —		Management Consultant NOUTHNSON ENGINEERS, IN
TRANSMISSION LINE COUNTY COORDINATION OF THE PROPERTY COUNTY COORDINATION OF THE PROPERTY COORDINATION	ONS SHOWN ON THIS PLAN ARE WISCONSIN ES, GRANT COUNTY, NAD83 (2011), IN U.S.	
SCALE L	LES ARE GRID COORDINATES, GRID BEARINGS, ES. GRID DISTANCES MAY BE USED AS GROUND	APPROVED FOR THE DEPARTMENT
UTILITY PEDESTAL DISTANCES. DISTANCES. TOTAL NET LENGTH OF CENTERLINE = 0.047 MI.		DATE: 10 30 2013
POWER POLE WOODED OR SHRUB AREA TELEPHONE POLE WOODED OR SHRUB AREA		Kindy A. July
		(Manageraent Consultant Signature)

RIP RAP BANK STABILIZATION DETAIL



SEE EROSION CONTROL PLAN FOR LOCATIONS

FROG EXCLUSION FENCING FOR NORTHERN CRICKET FROG

STANDARD ABBREVIATIONS

Δ	CENTRAL ANGLE	L	LEFT	ROW	RIGHT-OF-WAY
AD	ALGEBRAIC DIFFERENCE	MAX	MAXIMUM	R	RIGHT
ВМ	BENCH MARK	N	NORTH	S	SOUTH
CL	CENTERLINE	PC	POINT OF CURVE	STA	STATION
ELEV	ELEVATION	PI	POINT OF INTERSECTION	TYP	TYPICAL
EX	EXISTING	PROP	PROPOSED	VC	VERTICAL CURVE
НМА	HOT MIX ASPHALT	PT	POINT OF TANGENCY	W	WEST
K	RATE OF VERTICAL CURVATURE	PVI	POINT OF VERTICAL INTERSECTION	W'ERLY	WESTERLY
LEN	LENGTH OF CURVE	RAD	RADIUS		

GENERAL NOTES

THE NE AND SE QUADRANTS ARE WETLAND AREAS, DO NOT DISTURB AREA BEYOND THE SILT FENCE INSTALLED AS NORTHERN CRICKET FROG EXCLUSION FENCE.

3.5" ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 1 3/4" UPPER LAYER AND A 1 3/4" LOWER LAYER WITH 1/2" NOMINAL SIZE AGGREGATE.

CURVE DATA IS BASED ON THE ARC DEFINITION.

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

NO TREES TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

SEED MIXTURES AS NOTED IN SPECIAL PROVISIONS AND APPROVED BY THE DNR SHALL BE USED IN THE PROJECT AND SHALL BE PLACED AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

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

CUT VOLUMES SHOWN ON THE EARTHWORK SUMMARY SHEET DO NOT INCLUDE THE QUANTITY GENERATED FROM THE ITEM "EXCAVATION FOR STRUCTURES BRIDGES" AND THE EXCAVATION REQUIRED TO PLACE THE ITEM "RIPRAP HEAVY WITH FINES".

FILL VOLUMES SHOWN ON THE EARTHWORK SUMMARY SHEET DO NOT INCLUDE THE QUANTITY REQUIRED FOR THE ITEM "BACKFILL STRUCTURE SPECIAL".

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

HORIZONTAL CONTROL: THE WISCONSIN COUNTY COORDINATE SYSTEM COORDINATES SHOWN ON THIS PLAN ARE GRID/GROUND VALUES AND THE COMBINATION FACTOR USED IS 0.9999585.

VERTICAL CONTROL: THE ELEVATIONS ON THE PROJECT ARE BASED ON NAVD 88.

HORIZONTAL CONTROL: THE POSITIONS SHOWN ON THE PROJECT ARE BASED ON WISCONSIN COORDINATES, GRANT COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONTACT

CATHERINE BLESER
3911 FISH HATCHERY ROAD
MADISON, WI 53711
VOICE: 608-275-3308
CELL: 608-220-3338
FMAII:

catherine.bleser@wisconsin.gov

DESIGN CONSULTANT

IIW, P.C.
4155 PENNSYLVANIA AVE.
DUBUQUE, IA 52002
VOICE: 563-556-2464
FAX: 563-556-7811
ATTN: BRADLEY J. MOOTZ, PE
EMAIL: b.mootz@iiwengr.com

GRANT COUNTY CONTACT

DAVID LAMBERT GRANT COUNTY HIGHWAY COMMISSIONER PO BOX 150 LANCASTER, WISCONSIN 53813 VOICE: 608-723-2595 EMAIL: dlambert@co.grant.wi.gov

LECTRIC

DAIRYLAND POWER COOPERATIVE 3200 EAST AVENUE SOUTH LA CROSSE, WI 54601 ATTN: BOB BROIHAHN VOICE: 608-723-7539 EMAIL: rrb@dairynet.com

TELEPHONE TDS TELECOM P.O. BOX 5158

PLOT NAME

MADISON, W 53705-0158 ATTN: MATTHEW WINGERT VOICE: 608-685-3211 EMAIL: matthew.wingert@tdstelecom.com

PLOT SCALE : 1:2

DIGGERS A HOTLIN

Toll Free (800) 242-8511 Milwaukee Area (414) 259-1181 Hearing Impaired TDD (800) 542-2289 www.DiggersHotline.com

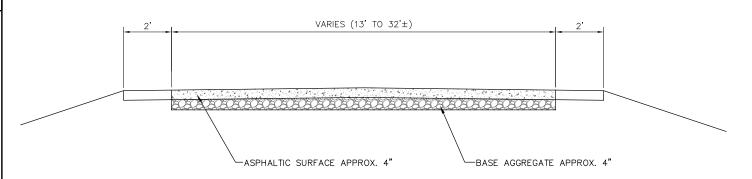
** DENOTES UTILITIES NOT A MEMBER OF DIGGERS HOTLINE

TOWN OF ELLENBORO CONTACT
JIM BROIHAHN

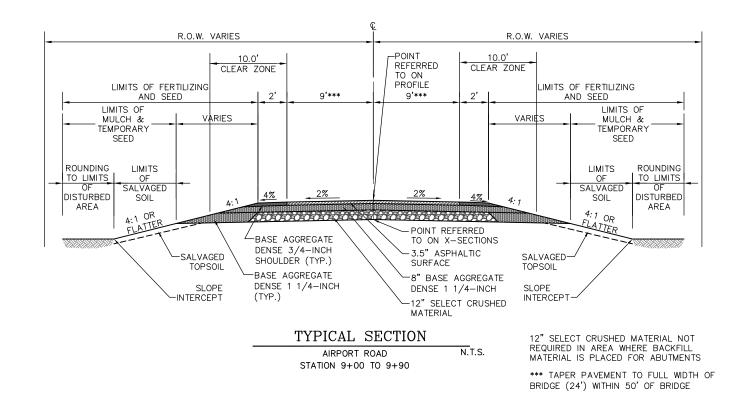
JIM BROIHAHN
TOWN OF ELLENBORO CHAIR
3644 WILLOW BRANCH ROAD
PLATTEVILLE, WI 53818
VOICE: 608-732-4081
EMAIL: farmking60@gmail.com

PROJECT NO: 5108-00-74 HWY: AIRPORT ROAD COUNTY: GRANT GENERAL NOTES SHEET **E**

PLOT DATE

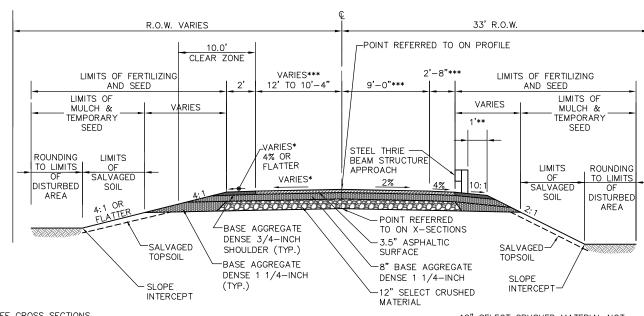


EXISTING TYPICAL SECTION



AIRPORT ROAD

COUNTY:



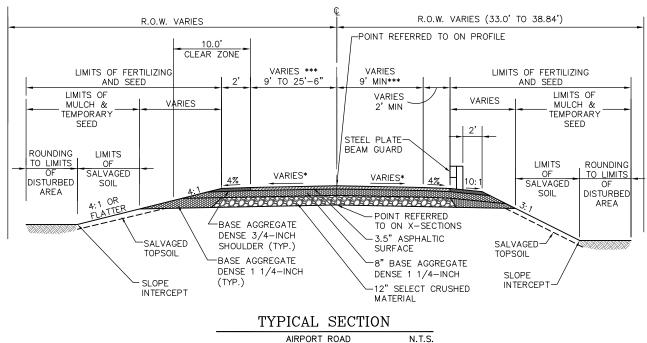
*SEE CROSS SECTIONS

** LONGER BEAM GUARD POSTS WITH AN EMBEDMENT DEPTH OF 4'-6" ARE REQUIRED WHEREVER A 2' DISTANCE FROM THE BACK OF THE POST TO THE HINGE POINT IS NOT AVAILABLE.

*** TAPER PAVEMENT TO FULL WIDTH OF BRIDGE (24') WITHIN 50' OF BRIDGE

TYPICAL SECTION AIRPORT ROAD STATION 10+35 TO 10+61

12" SELECT CRUSHED MATERIAL NOT REQUIRED IN AREA WHERE BACKFILL MATERIAL IS PLACED FOR ABUTMENTS



AIRPORT ROAD STATION 10+61 TO 11+15

*SEE CROSS SECTIONS

SHEET

*** TAPER PAVEMENT TO FULL WIDTH OF BRIDGE (24') WITHIN 50' OF BRIDGE

Е

HWY:

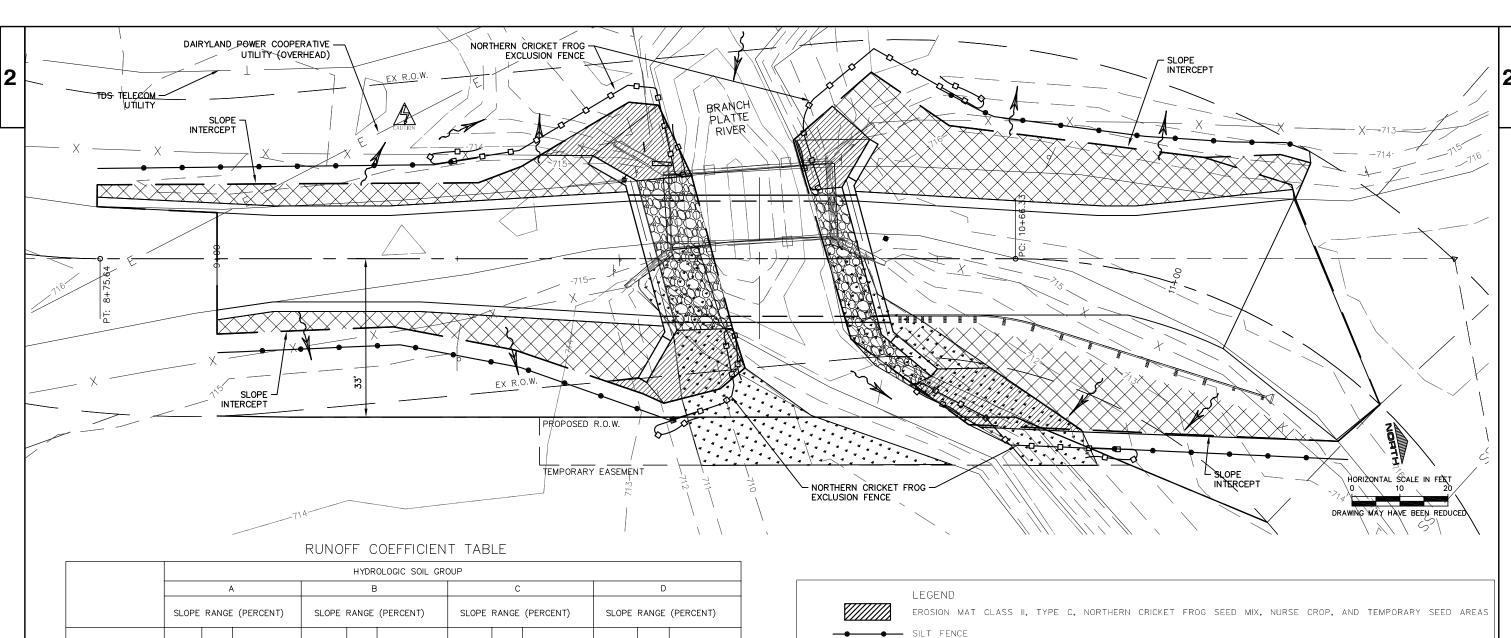
5108-00-74

PROJECT NO:

GRANT

PLOT NAME

TYPICAL SECTIONS



		HYDROLOGIC SOIL GROUP										
		,	4		E	3		С			D	
	SLOPE	RANG	E (PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE— TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:	•	•		•	•	•	•	•	•		•	•
ASPHALT					.70	95						
CONCRETE					.80	95						
BRICK	BRICK .7080											
DRIVES, WALKS					.75	85	·			·		
ROOFS					.75	595						
GRAVEL ROADS, S	SHOULDE	RS			.40	60						

TOTAL PROJECT AREA = 0.464 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.253 ACRES RUNOFF FROM A BRANCH OF THE PLATTE RIVER IS RECEIVED BY THE LITTLE PLATTE RIVER



NORTHERN CRICKET FROG EXCLUSION FENCE

SURFACE WATER FLOW

RIPRAP, NORTHERN CRICKET FROG SEED MIX, NURSE CROP, AND TEMPORARY SEED AREAS

WETLAND

NO. 20 SEED MIX AND TEMPORARY SEED AREAS

BENCH MARKS

	STATION/		
NO.	OFFSET	DESCRIPTION	ELEVATION
1	8+21.26 57.45'R	CHISELED SQUARE ON NE COR HEADWALL, OF CONC. BOX CULVERT	716.75
2	11+42.38 286.78' L	MAG NAIL WITH ORANGE PLASTIC WASHER SET IN POST	720.76

DATE 06 LINE	FEB14	E	S T I M A T	E OF QUAN	T I T I E S 5108-00-74
NUMBER 0010		ITEM DESCRIPTION REMOVING OLD STRUCTURE OVER WATERWAY WITH DEBRIS CAPTURE SYSTEM (STATION) (10+11.20	UNI T LS 01.	TOTAL 1. 000	QUANTI TY 1. 000
0020 0030	205. 0100 206. 1000	EXCAVATION COMMON **P** EXCAVATION FOR STRUCTURES BRIDGES	CY LS	190. 000 1. 000	190. 000 1. 000
0040	213. 0100	(STRUCTURE) 01. B-22-0280 FINISHING ROADWAY (PROJECT) 01. 5108-00-74	EACH	1.000	1. 000
0050	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	30. 000	30.000
0060 0070	305. 0120 312. 0110	BASE AGGREGATE DENSE 1 1/4-INCH SELECT CRUSHED MATERIAL	TON TON	360. 000 300. 000	360. 000 300. 000
0070	455. 0605	TACK COAT	GAL	13. 000	13. 000
0090	465. 0105	ASPHALTI C SURFACE	TON	94. 000	94. 000
0100	502. 0100	CONCRETE MASONRY BRIDGES	CY	173. 000	173. 000
0110	502. 3200 505. 0405	PROTECTIVE SURFACE TREATMENT BAR STEEL REINFORCEMENT HS BRIDGES	SY LB	175. 000 4, 650. 000	175. 000 4, 650. 000
0120 0130	505. 0405	BAR STEEL REINFORCEMENT HS COATED	LB	19, 720. 000	19, 720. 000
0140	513. 4060	BRIDGES RAILING TUBULAR TYPE M (STRUCTURE) 01.	. LS	1. 000	1. 000
0150	516. 0500	B-22-0280 RUBBERIZED MEMBRANE WATERPROOFING	SY	12. 000	12. 000
0160	550. 0500	PILE POINTS	EACH	18. 000	18. 000
0170	550. 1120	PILING STEEL HP 12-INCH X 53 LB	LF	450. 000	450.000
0180	612. 0406	PI PE UNDERDRAIN WRAPPED 6-INCH	LF	140.000	140.000
0190 0200	614. 0200 614. 0305	STEEL THRIE BEAM STRUCTURE APPROACH STEEL PLATE BEAM GUARD CLASS A	LF LF	21. 000 12. 500	21. 000 12. 500
0210	614. 0370	STEEL PLATE BEAM GUARD ENERGY ABSORBIT	NG EACH	1. 000	1. 000
0220	619. 1000	TERMINAL MOBILIZATION	EACH	1. 000	1. 000
0230 0240	625. 0500 627. 0200	SALVAGED TOPSOIL MULCHING	SY SY	350. 000 300. 000	350. 000 300. 000
0250	628. 1504	SILT FENCE	LF	370. 000	370. 000
0260	628. 1520	SILT FENCE MAINTENANCE	LF	370. 000	370.000
0270	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	4.000	4.000
0280 0290	628. 1910 628. 2027	MOBILIZATIONS EMERGENCY EROSION CONTRO EROSION MAT CLASS II TYPE C	OL EACH SY	2. 000 105. 000	2. 000 105. 000
0300	629. 0210	FERTILIZER TYPE B	CWT	1. 000	1. 000
0310	630. 0120	SEEDING MIXTURE NO. 20	LB	7. 000	7.000
0320 0330	630. 0200 630. 0400	SEEDING TEMPORARY SEEDING NURSE CROP	LB LB	17. 000 1. 400	17. 000 1. 400
0340 0350	633. 5100 634. 0612	MARKERS ROW POSTS WOOD 4X6-INCH X 12-FT	EACH EACH	7. 000 4. 000	7. 000 4. 000
0360	634. 0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	2.000	2.000
0370	637. 2230	SIGNS TYPE II REFLECTIVE F	SF	24. 500	24. 500
0380 0390	638. 2602 638. 3000	REMOVING SIGNS TYPE II REMOVING SMALL SIGN SUPPORTS	EACH EACH	9. 000 7. 000	9. 000 7. 000
0400	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1. 000
0410	643. 0100 645. 0120	TRAFFIC CONTROL (PROJECT) 01. 5108-00- GEOTEXTILE FABRIC TYPE HR		1. 000 72. 000	1. 000 72. 000
0420 0430	645. 0120 650. 4500	CONSTRUCTION STAKING SUBGRADE	SY LF	72. 000 203. 000	72. 000 203. 000
0440	650. 5000	CONSTRUCTION STAKING BASE	LF	203. 000	203.000
0450	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-22-0280	LS	1. 000	1. 000
0460	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 5108-00-74	LS	1.000	1.000
		,			

DATE 06	FEB14	E S	TIMATE	E OF QUAN	
LINE					5108-00-74
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0470	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	203.000	203.000
 0480	715.0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	1, 083. 000	1, 083. 000
0490	SPV. 0035	SPECIAL 01. BACKFILL STRUCTURE SPECIAL	CY	177. 000	177. 000
0500	SPV. 0035	SPECIAL 02. RIPRAP HEAVY WITH FINES	CY	65. 000	65. 000
0510	SPV. 0085	SPECIAL O1. NORTHERN CRICKET FROG SEED MIX	LB	0. 500	0. 500
0520	SPV. 0090	SPECIAL 01. NORTHERN CRICKET FROG EXCLUSION FENCE	LF	420. 000	420. 000
0530	SPV. 0090	SPECIAL 02. EXCLUSION FENCE MAINTENANCE	LF	420.000	420.000

	REMOVING SIGNS, TYPE II AND SMALL SIGN SUPPORTS (638.2602) REMOVING SIGNS TYPE II LOCATION 4 CORNERS OF EXISTING BRIDGE OTHER POSTED SIGNS CATEGORY 0010 TOTAL 9 (638.3000) REMOVING SMALL SIGN SUPPORTS EACH 4 4 4 4 5 6 4 7 7	SIGNS TYPE II REFLECTIVE F (637.2230) SIGNS TYPE II REFLECTIVE F LOCATION TYPE SF 4 CORNERS OF BRIDGE W5-52, LT. & RT. 12 STA. 9+50 RT. W1-10 6.25 STA. 10+72 LT. W1-10 6.25 CATEGORY 0010 TOTALS 24.5
3	EROSION CONTROL MOBILIZATIONS (628.1905) MOBILIZATIONS EROSION CONTROL LOCATION (EACH) UNDISTRIBUTED 4 2 CATEGORY 0010 TOTALS 4 2	POSTS WOOD (634.0612) POSTS WOOD POSTS WOOD 4X6X12 EACH 4 CORNERS OF BRIDGE STA. 9+50 RT. 0 1 1 STA. 10+72 LT. 0 1 (634.0614) POSTS WOOD 4X6X14 EACH 0 1 5 STA. 0+72 LT. 0 1 1 STA. 0+72 LT. 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	EARTHWORK SUMMARY SHRINKAGE FACTOR = 30% (205.0100) EXCAVATION COMMON FILL STATION - STATION LOCATION (CY) (CY) STA. 9+00-9+89 MAINLINE 90 15 STA. 10+36-11+50 MAINLINE 100 105 CATEGORY 0010 TOTALS 190 120 NOTE: SEE CROSS SECTIONS FOR MAINLINE EARTHWORK SUMMARY	SELECT CRUSHED MATERIAL (312.0110) SELECT CRUSHED MATERIAL (312.0110) SELECT CRUSHED MATERIAL (TON)
	CATEGORY 0010 BASE AGGREGATE DENSE (305.0120) (305.0110)	ASPHALTIC ITEMS (465.0105) (455.0605) ASPHALTIC TACK SURFACE COAT STATION - STATION LOCATION (TON) (GAL.) STA. 9+00-9+89 MAINLINE 38 5 STA. 10+36-11+50 MAINLINE 56 8 CATEGORY 0010 TOTALS 94 13
	LAYOUT ITEMS	CATEGORY 0010 TOTALS C633.5100 ROW MARKER STATION - STATION LOCATION (EA) STA. 9+00-9+89 LT 2 STA. 10+36-11+50 RT 2 STA. 10+36-11+50 LT 1 CATEGORY 0010 TOTALS 7
	SILT FENCE (628.1520) (SPV.0090.01) (SPV.0090.02)	GUARDRAIL (614.0200) STEEL THRIE BEAM STRUCTURE APPROACH CLASS A EAT CATEGORY 0010 TOTALS (614.0305) (614.0370) STEEL PLATE STEEL PLATE BEAM GUARD BEAM GUARD CLASS A EAT (LF) (EACH) (LF) (EACH) 1 12.5 1
		STATION - STATION LOCATION CSY STATION - STATION LOCATION CSY CSY CWT CW

PROJECT NO: 5108-00-74

HWY:

AIRPORT ROAD

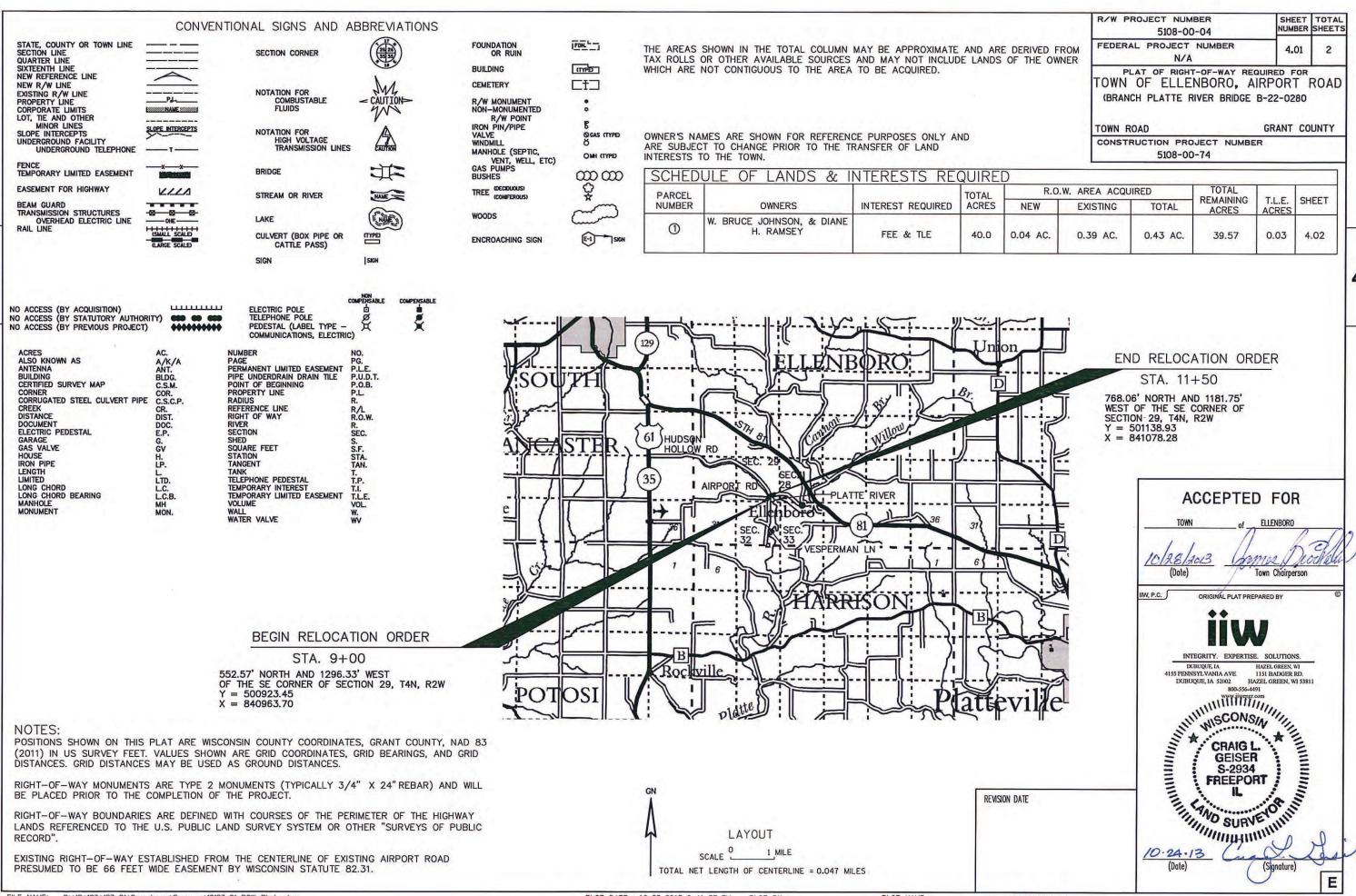
COUNTY:

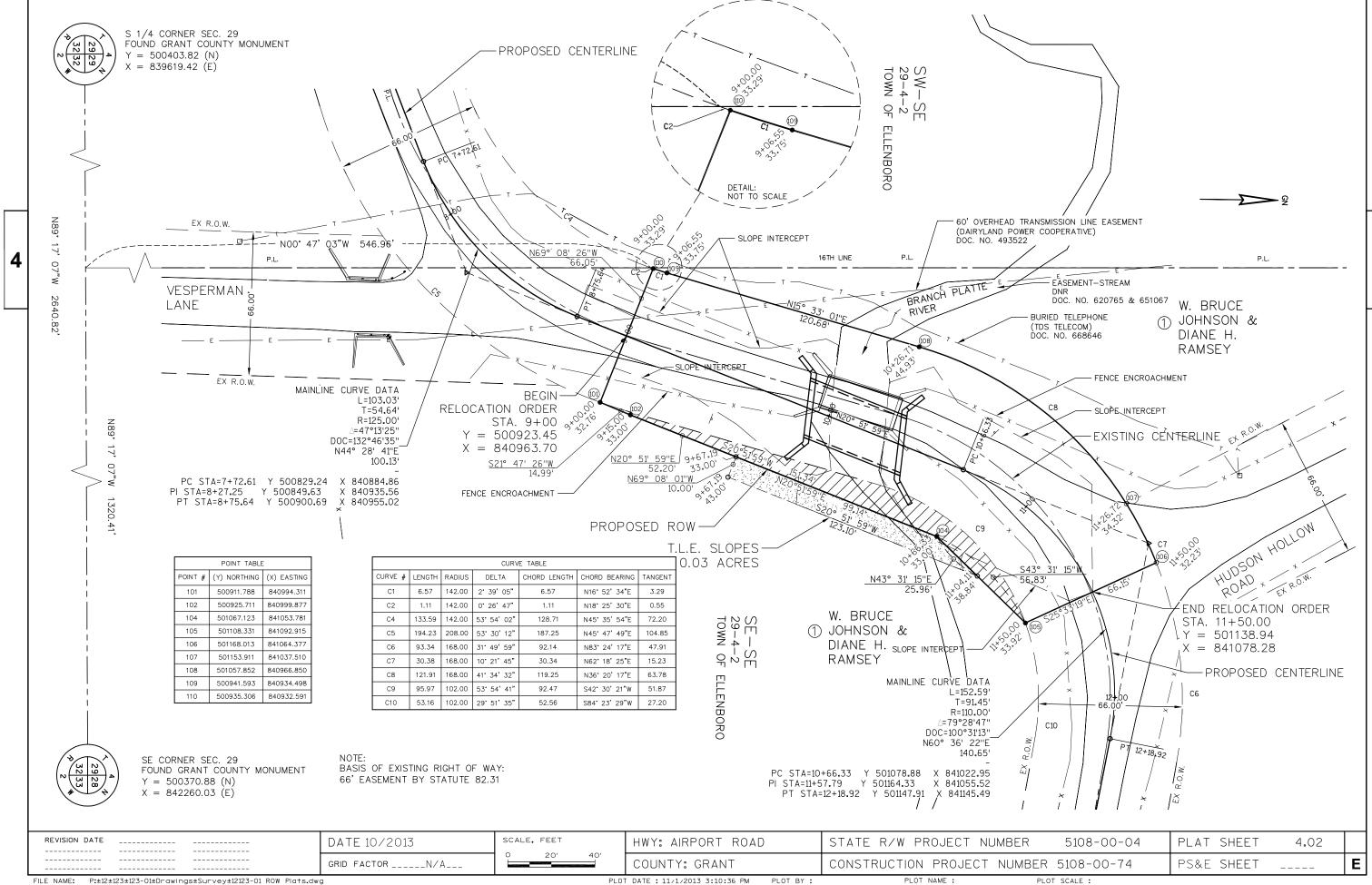
GRANT

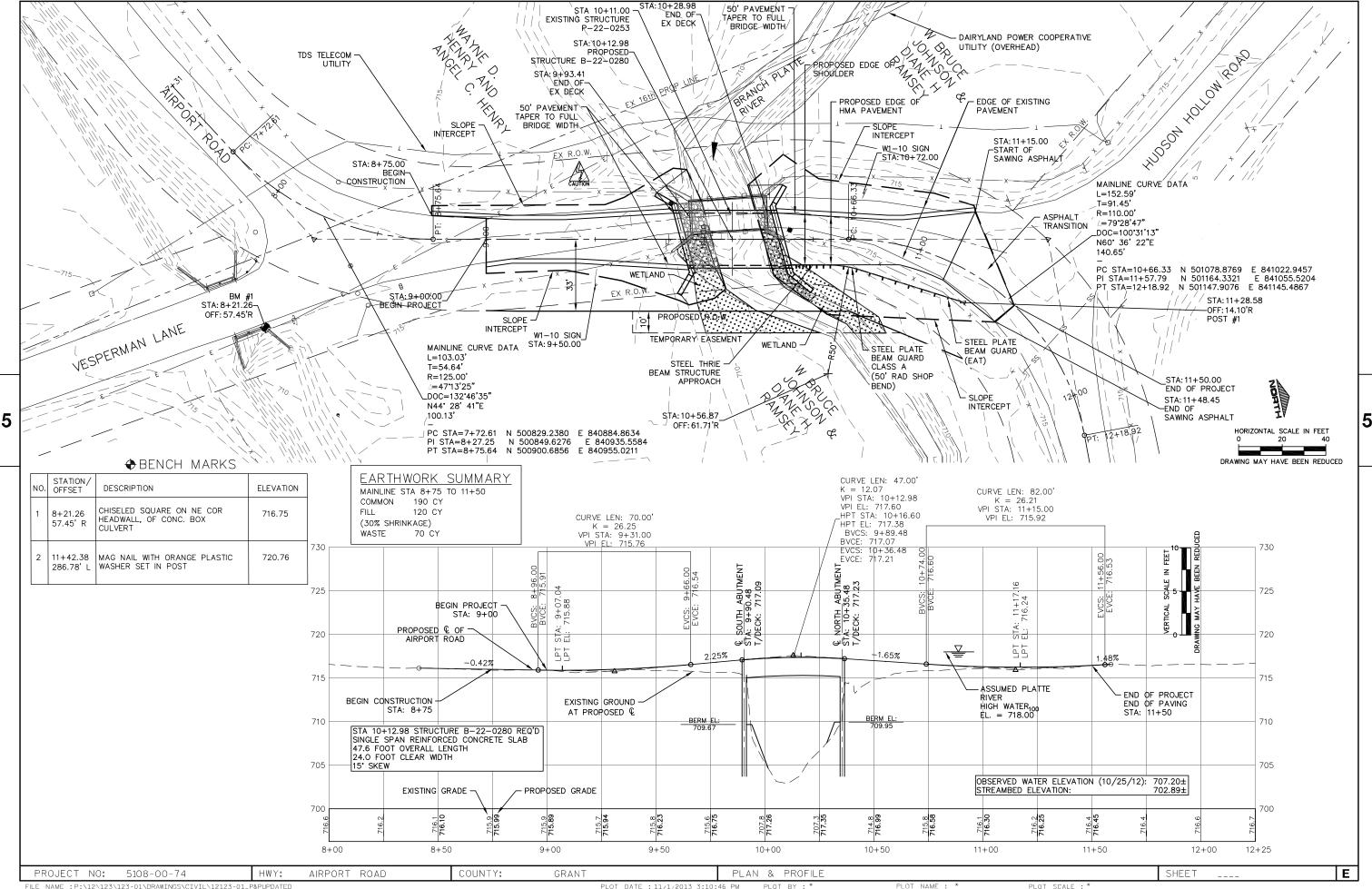
MISCELLANEOUS QUANTITIES

PLOT BY :

SHEET







Standard Detail Drawing List

08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
14B15-07A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11F	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPE "M"
14B20-11G	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL
14B24-07A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-07B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-07C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
15A01-11	MARKER POST FOR RIGHT-OF-WAY
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-06	SIGNING & MARKING FOR TWO LANE BRIDGES
15D28-02	TRAFFIC CONTROL WORK ON SHOULDER OR PARKING LANF LINDLVLDED ROADWAY

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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

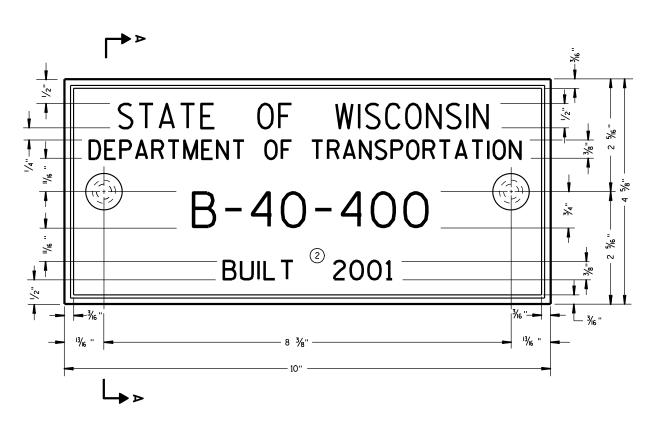
(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

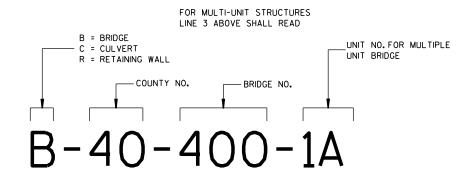
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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



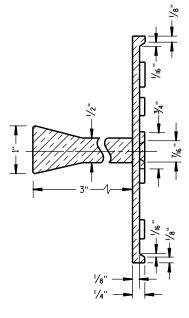
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

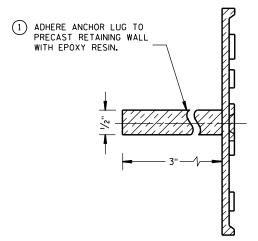
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

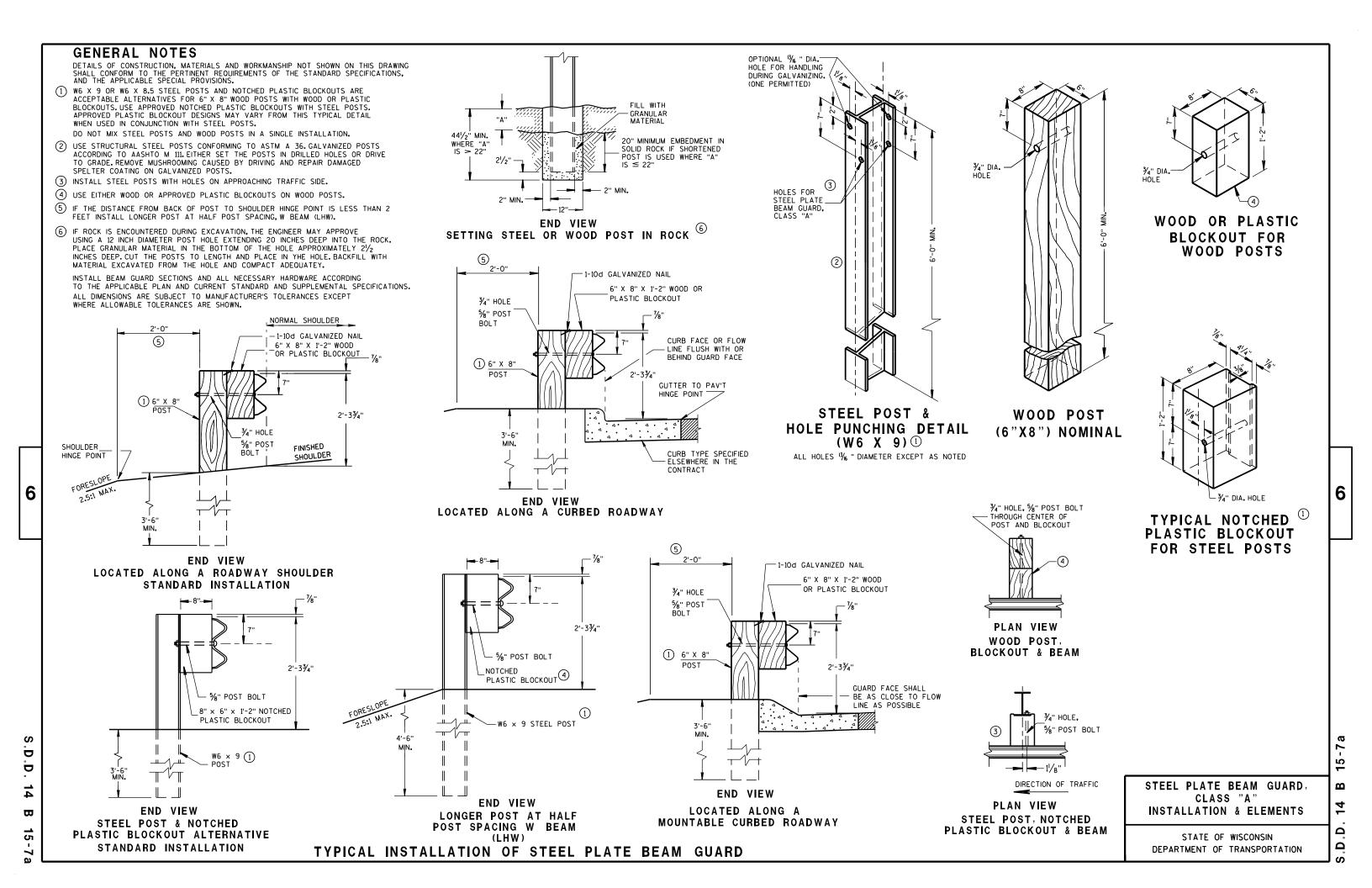
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

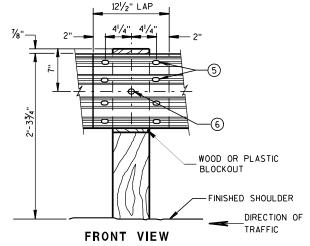
 D. 12 A 3-10



POST SPACING STANDARD INSTALLATION

SYMMETRICAL TABOUT € ∕-12 GAGE

SECTION THRU W BEAM



BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

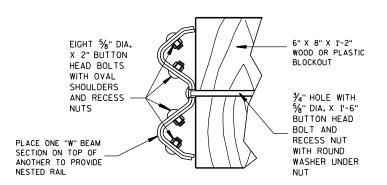
GENERAL NOTES

- 1 PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
- 2 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- 3 REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- 4 PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
- (5) 8 % " ϕ X 2 " BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- 6 $\frac{1}{8}$ " ϕ X 1'-6" BUTTON HEAD BOLT AND AND RECESS NUT WITH ROUND WASHER UNDER NUT.

12½" LAP $\frac{3}{4}$ " × $2\frac{1}{2}$ " POST BOLT SLOT . Ç POST BOLT SLOT " × 1 1/8" NOTCHED SPLICE BOLT SLOT PLASTIC -BLCKOUT DIRECTION OF TRAFFIC

FRONT VIEW BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

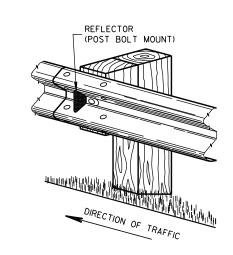
	-	12'-6" OF		-	1
		EFFECTIVE LEN	NGTH OF BEAM		
	3'-1 ¹ / ₂ " C-C	3'-1 ^l / ₂ " C-C	3'-1 ¹ / ₂ " C-C	3'-1 <mark>/</mark> 2" C-C	
İ	POST SPACING	POST SPACING	POST SPACING	POST SPACING	
			•	•	
	-	+ +			2'-3¾''
				NICATION DIDECTION	
	FINIS SHOL	HED/ JLDER		DIRECTION TRAFFIC	N OF
				THAT THE	

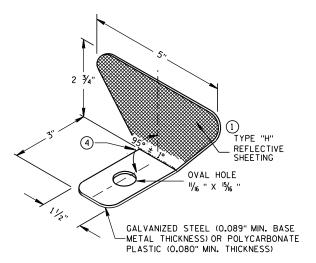
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)

REFLECTOR SPACING

			0	
	BEAM GUARD	REFLECTOR	NO. SURFACES	MIN. NO.
	LENGTH	SPACING	REFLECTORIZED	REFLECTORS
ONE WAY	< 200'	50' C-C	1	3
TRAFFIC	> 200'	100, C-C	1	
TWO WAY	< 200'	25' C-C	1(3)	6
TRAFFIC	> 200'	50' C-C	1 🔍	
TWO WAY	< 200'	50' C-C	2(4)	3
TRAFFIC	> 200'	100' C-C	2 4	





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

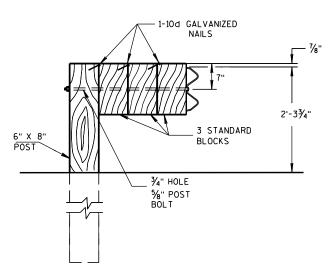
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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- 1-10d GALVANIZED NAILS



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

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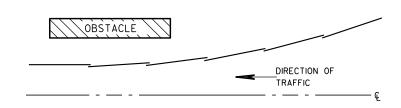
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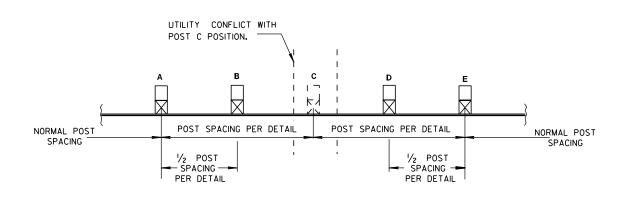
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DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

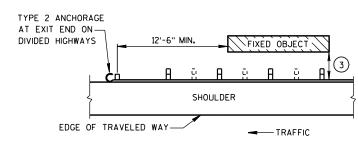
APPROVED

5/23/II
DATE
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

S.D.D. 14

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BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES **EXIT END - ONE WAY TRAFFIC**

GENERAL NOTES

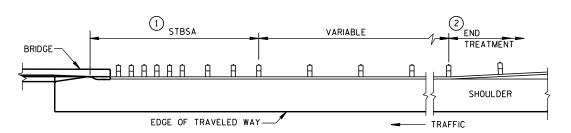
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

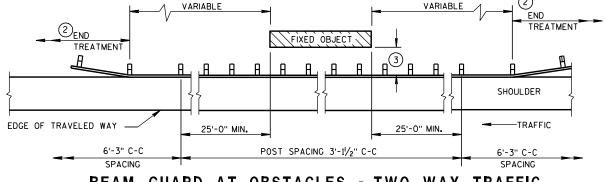
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

- (1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) SEE CURRENT SDD 14B20.
- 2 USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

3	MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
	3'-6"	3' - 11/2"
	4'-6"	6' - 3"



BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")

END TP 1 STBSA VARIABLE TREATMENT BEGIN FLARE END FLARE → EDGE OF FINISHED SHOULDER BRIDGE->SHOULDER **─** TRAFFIC EDGE OF TRAVELED WAY -FLARE RATE PER TABLE 1 AT RIGHT (FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES)

BEAM GUARD AT NARROW BRIDGES (FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1 FLARE RATES FOR BEAM **GUARD AT NARROW BRIDGES**

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A' AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
8-21-07	/S/ Jerry H.Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT
FHWΔ	ENGINEER

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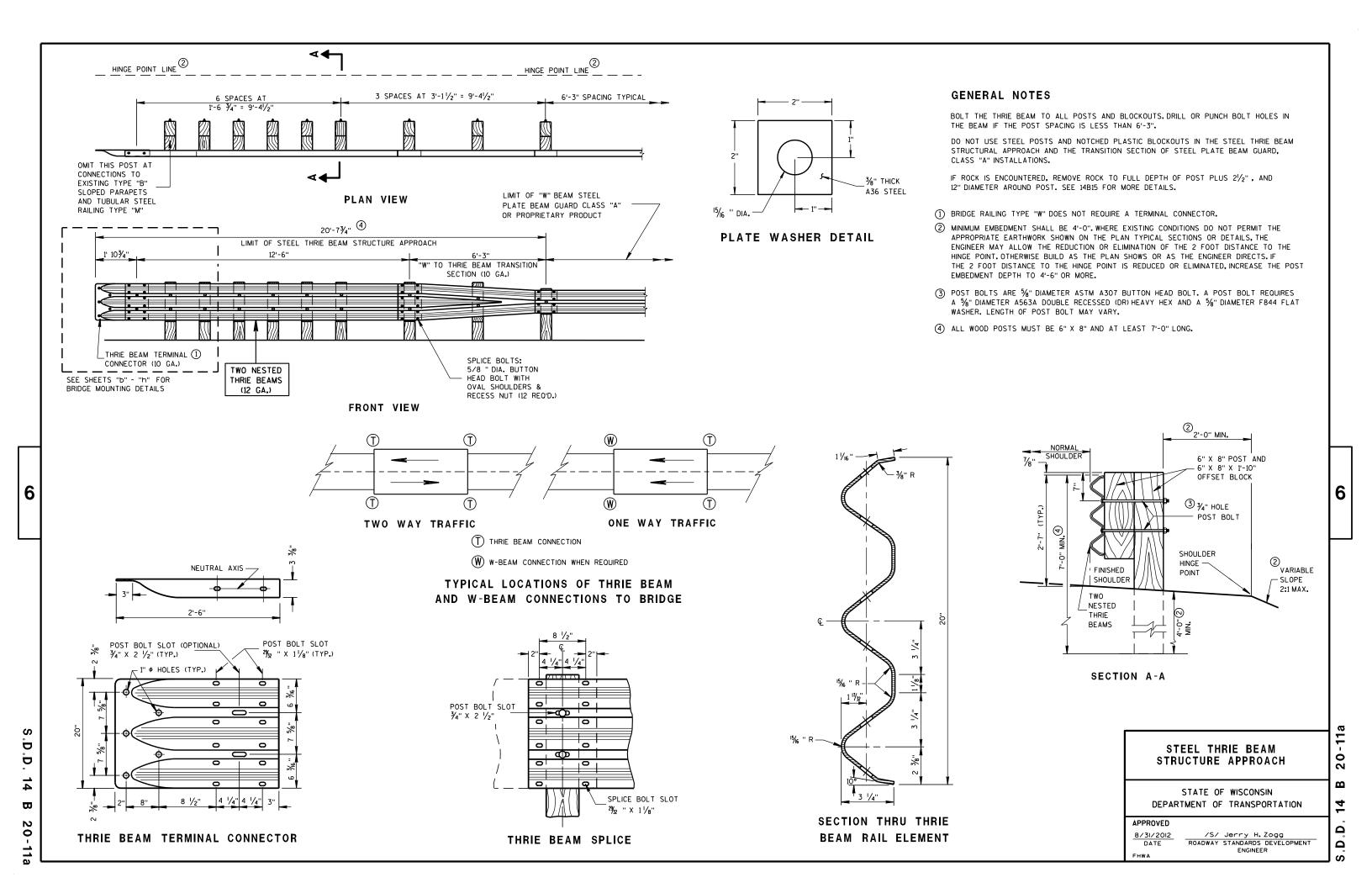
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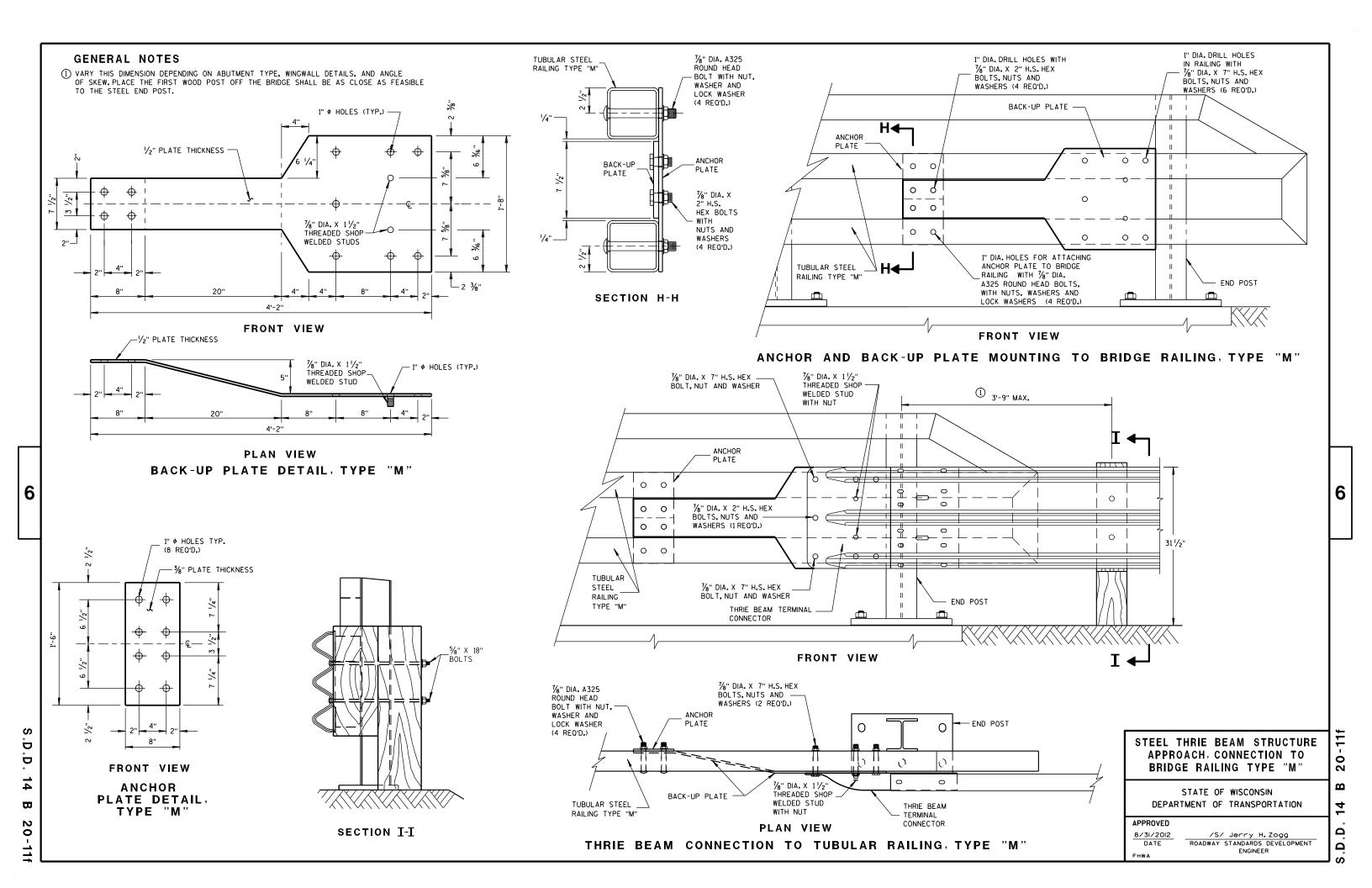
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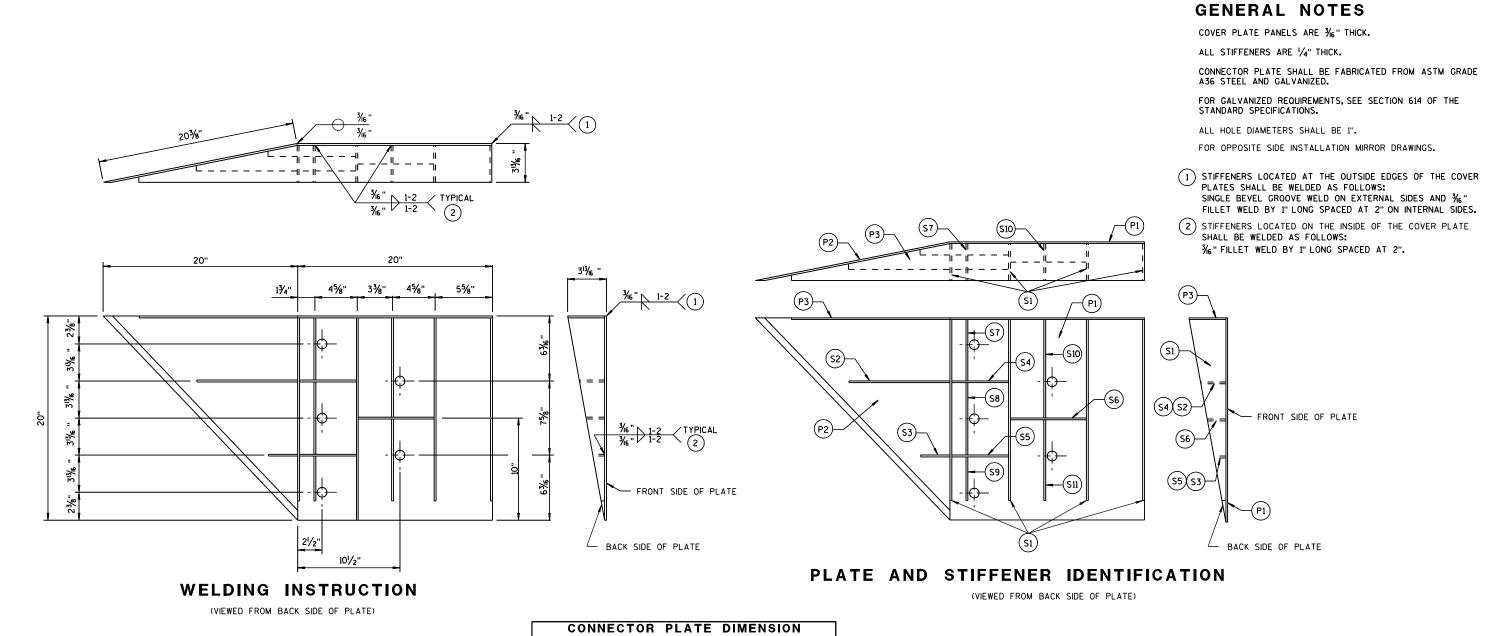
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CONNECTOR PLATE DIMENSION (PER ASSEMBLY)										
PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS						
P1	1	в₫	20" × 20"	3/6 "						
P2	1	B₽Ĉ	20" × 20" × 28 % 6"	3/6 "						
Р3	1	B _ C D	39" × 35/8" × 20" × 195/6"	3∕16 "						
S1	4	BA	18 1/16 " × 3 5/8" × 18 3/4"	1/4"						
S2	1	B C D	10 ¹ / ₄ " × 2 ¹ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"						
S3	1	B₽D	3" × 1½6" × 3½" × ½"	1/4"						
S4	1	вЁ	61/8" × 21/6"	1/4"						
S5	1	вД	61/8" × 11/16"	1/4"						
S6	1	в≜	7¾" × 1¾"	1/4"						
S7	1	₽	2%6" × 6" × 3%" × 5%"	1/4"						
S8	1	A DC	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"						
S9	1	C B	6½6" × 6¾6" × 1¾32"	1/4"						
S10	1	₩	11/8" × 91/8" × 35/8" × 911/16 "	1/4"						
S11	1	C A	8½" × 8¾" × 1⅓6 "	1/4"						

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STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL 6

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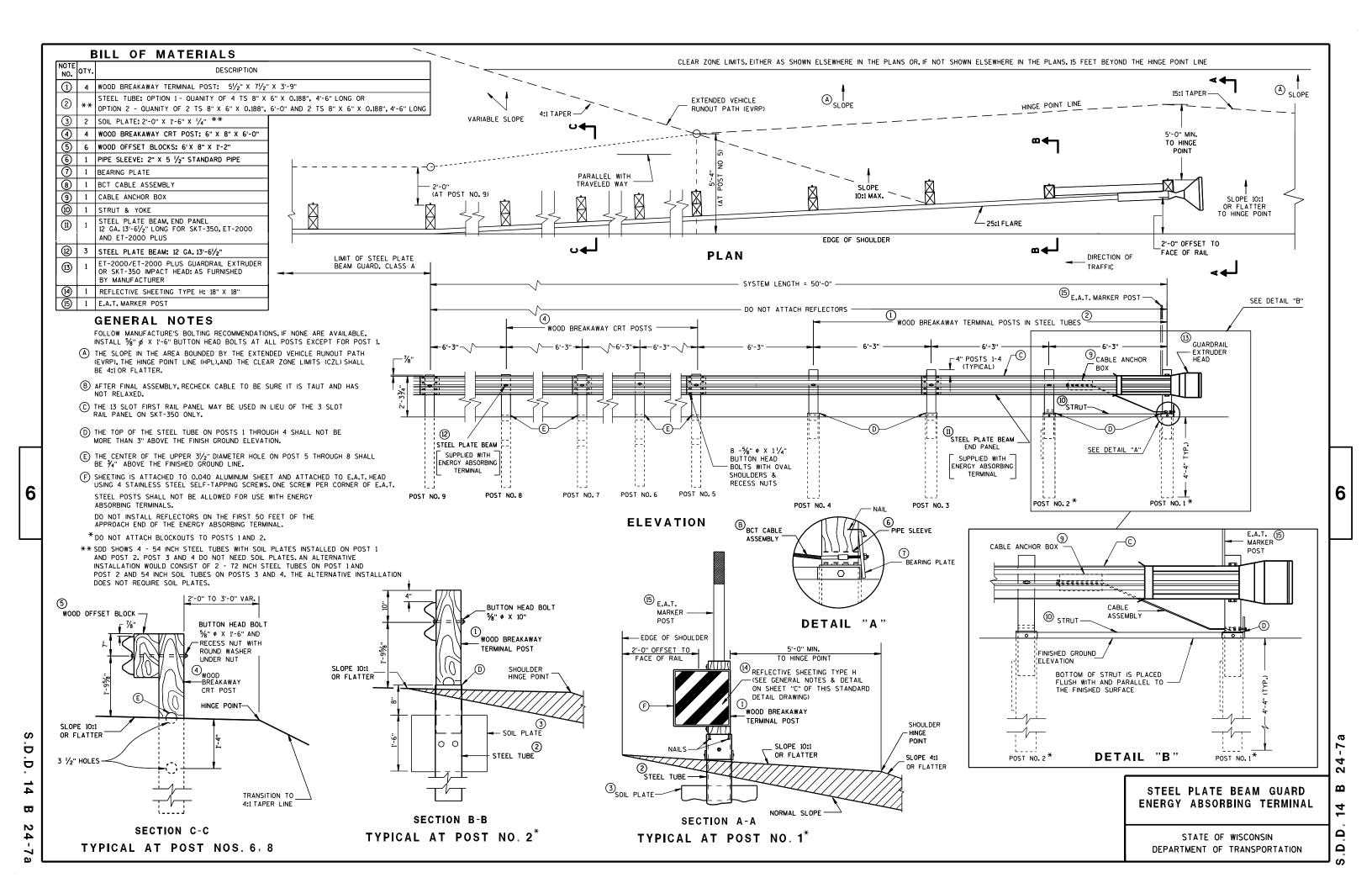
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

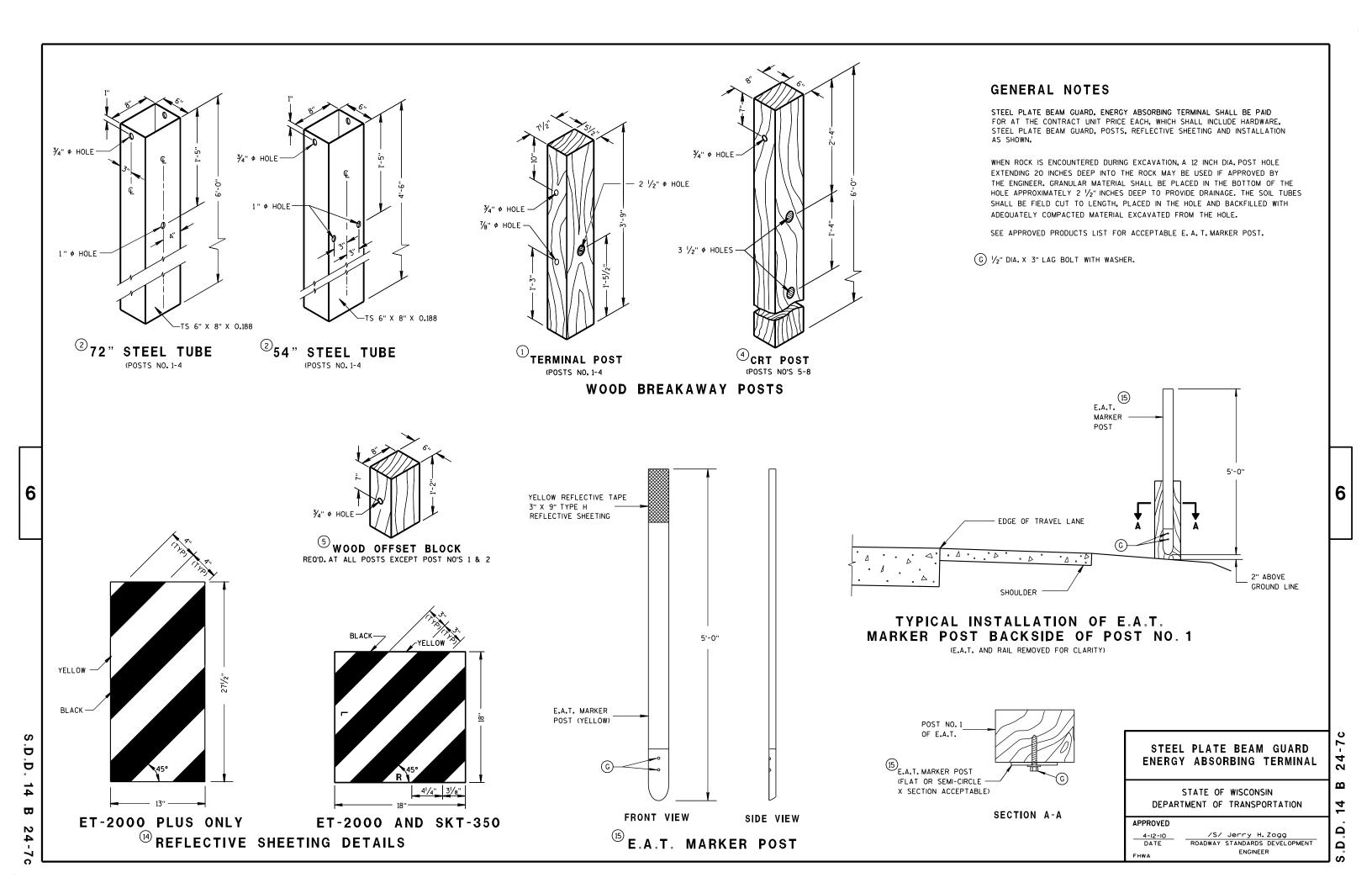
APPROVED 8/31/2012

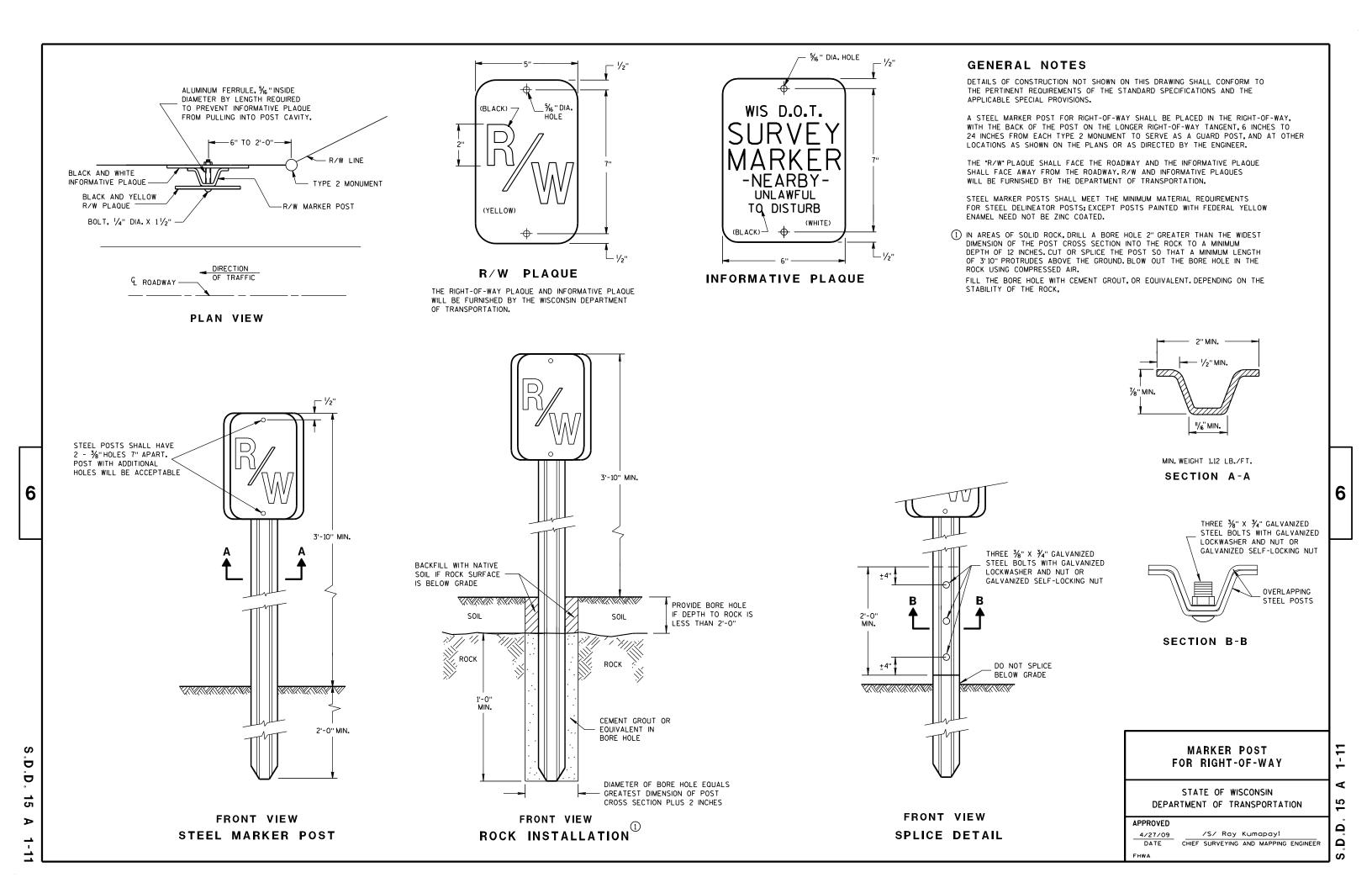
/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER



STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







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.

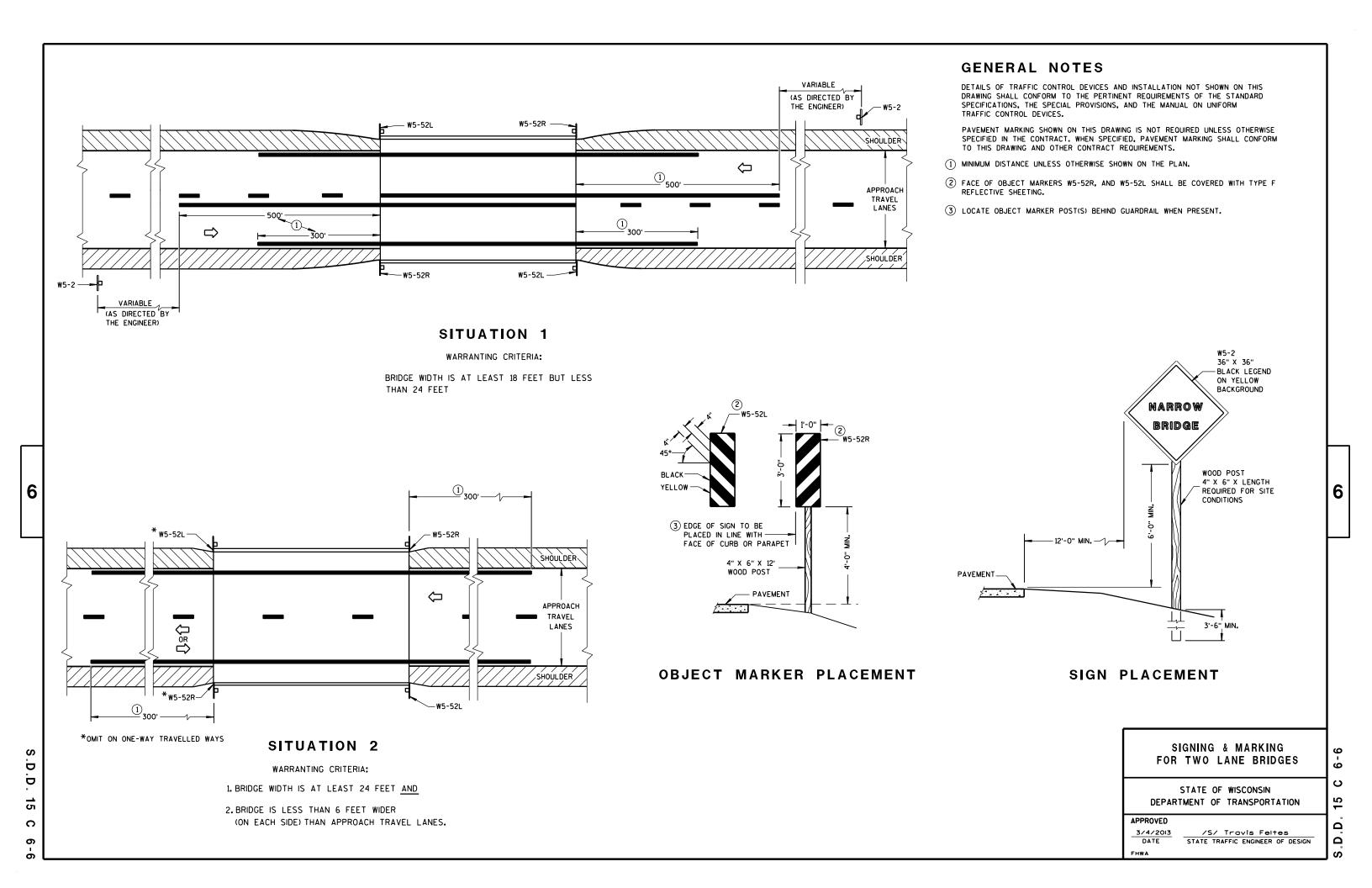
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

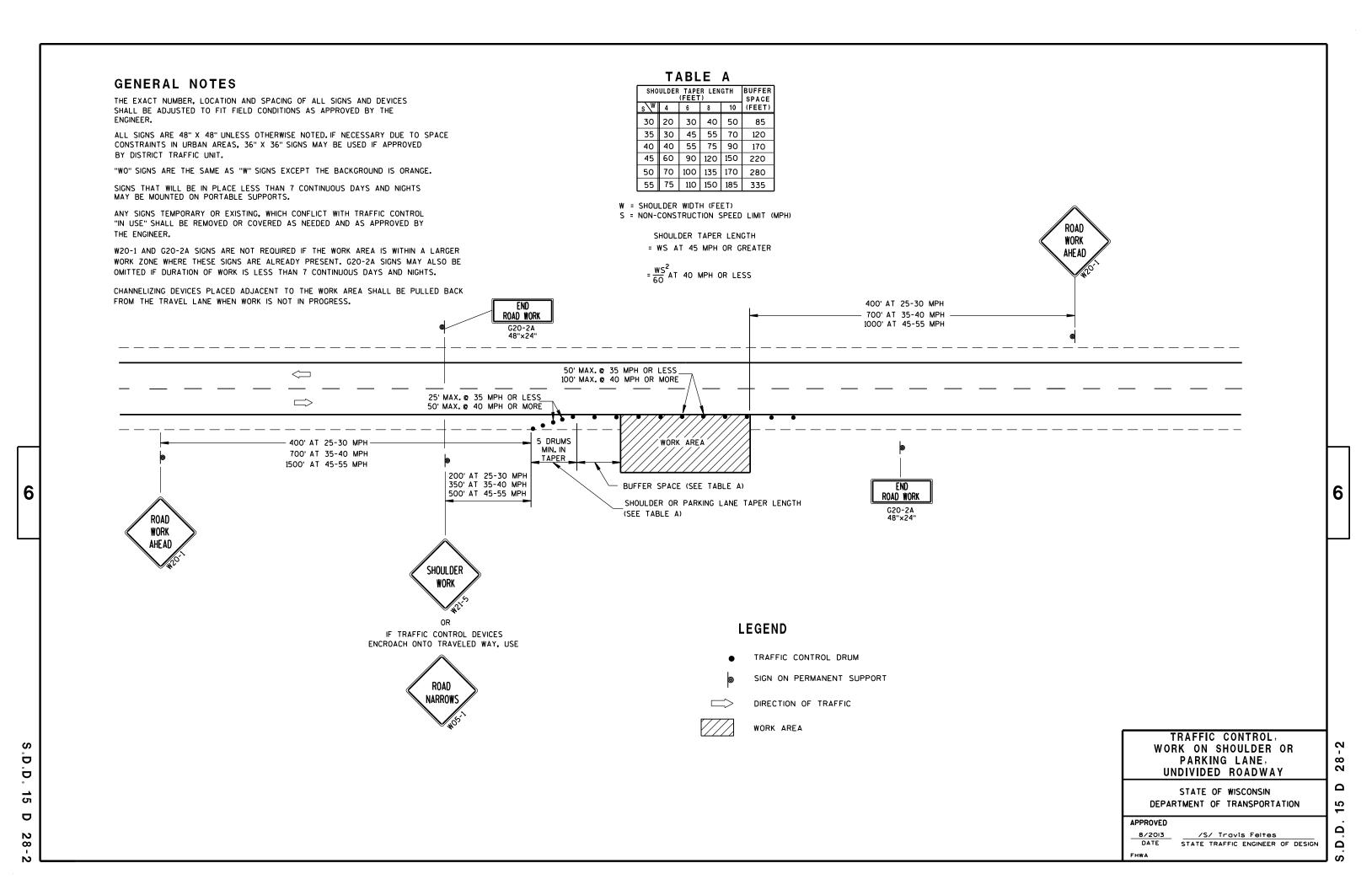
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

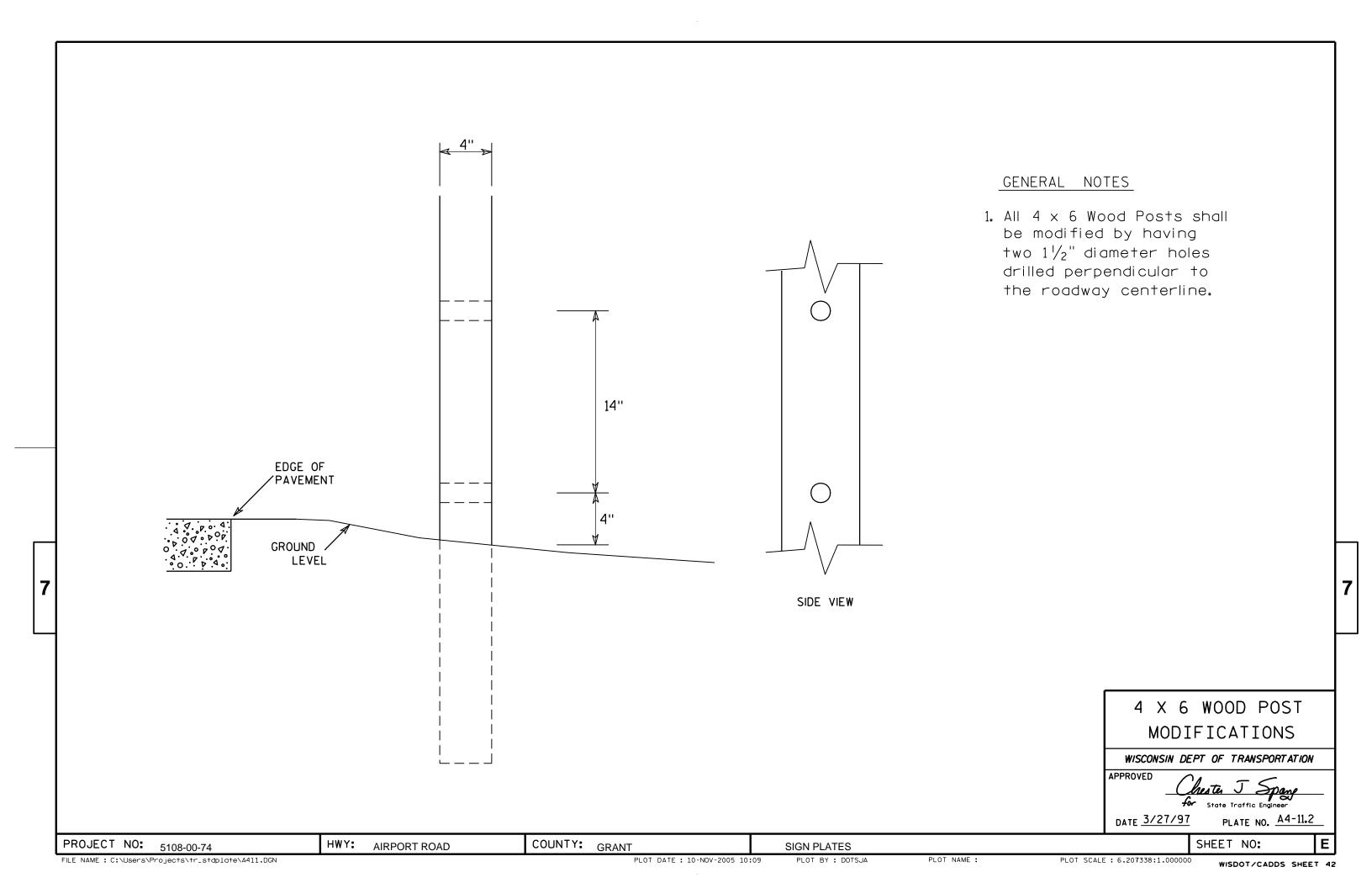
/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

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urban area

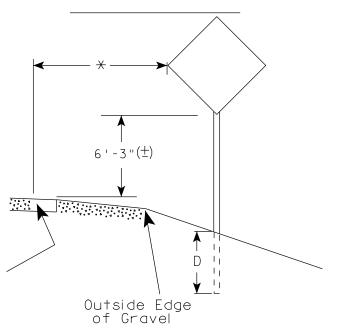
2' Min - 4' Max (See Note 5)

** Curb Flowline

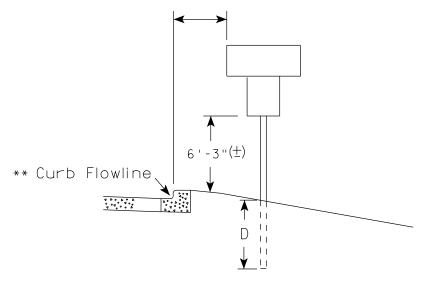
D

White Edgeline Location

RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 5)



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 or larger than 20 sq. ft. 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" (±) or 6'-3" (±) 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), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road 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'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rawl For State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-3.16

PROJECT NO: 5108-00-74 HWY: AIRPORT ROAD COUNTY: GRANT SIGN PLATES SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A43.DGN

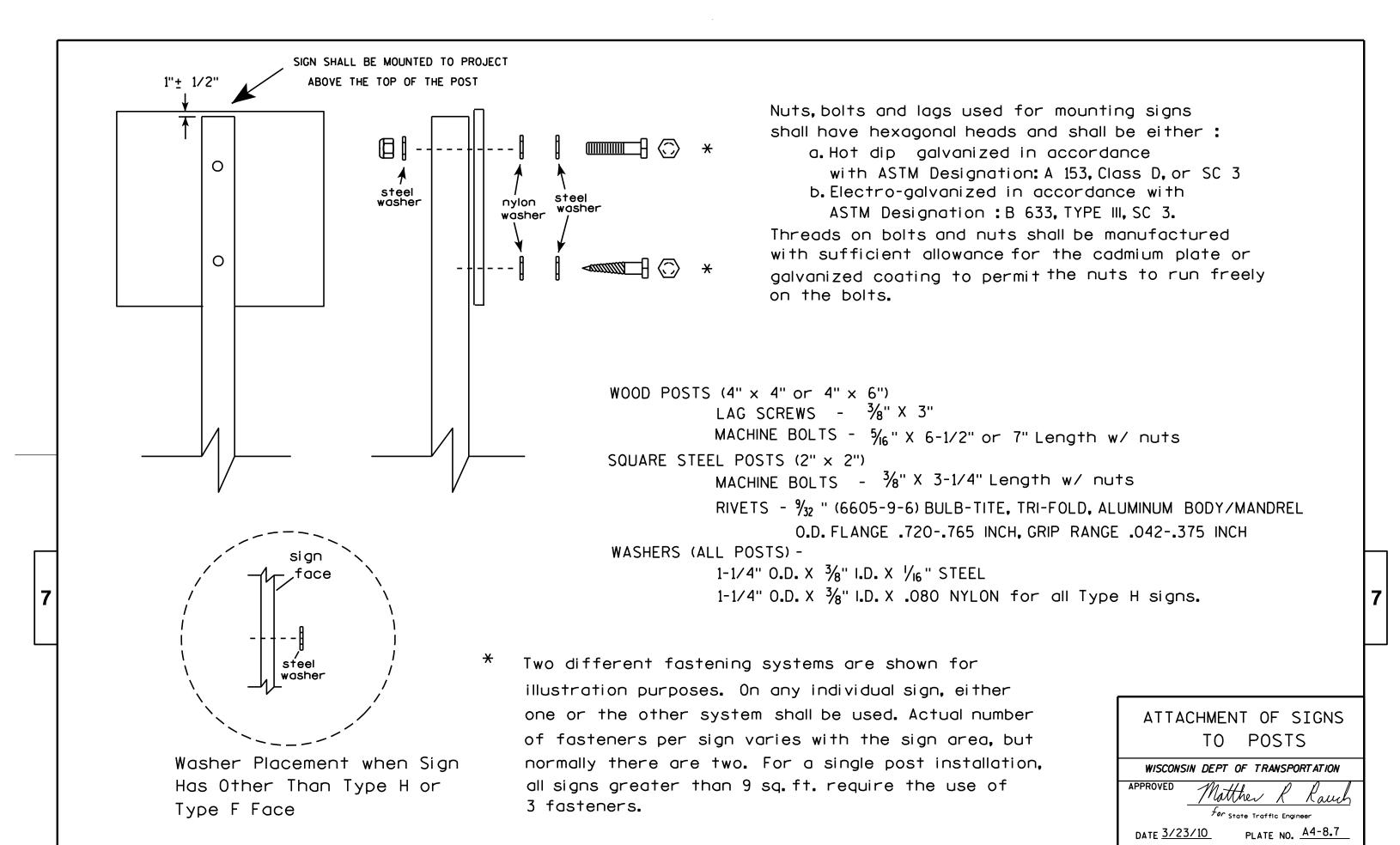
PLOT DATE: 21-SEP-2011 13:33

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 101.303739:1.000000

WISDOT/CADDS SHEET 42



5108-00-74

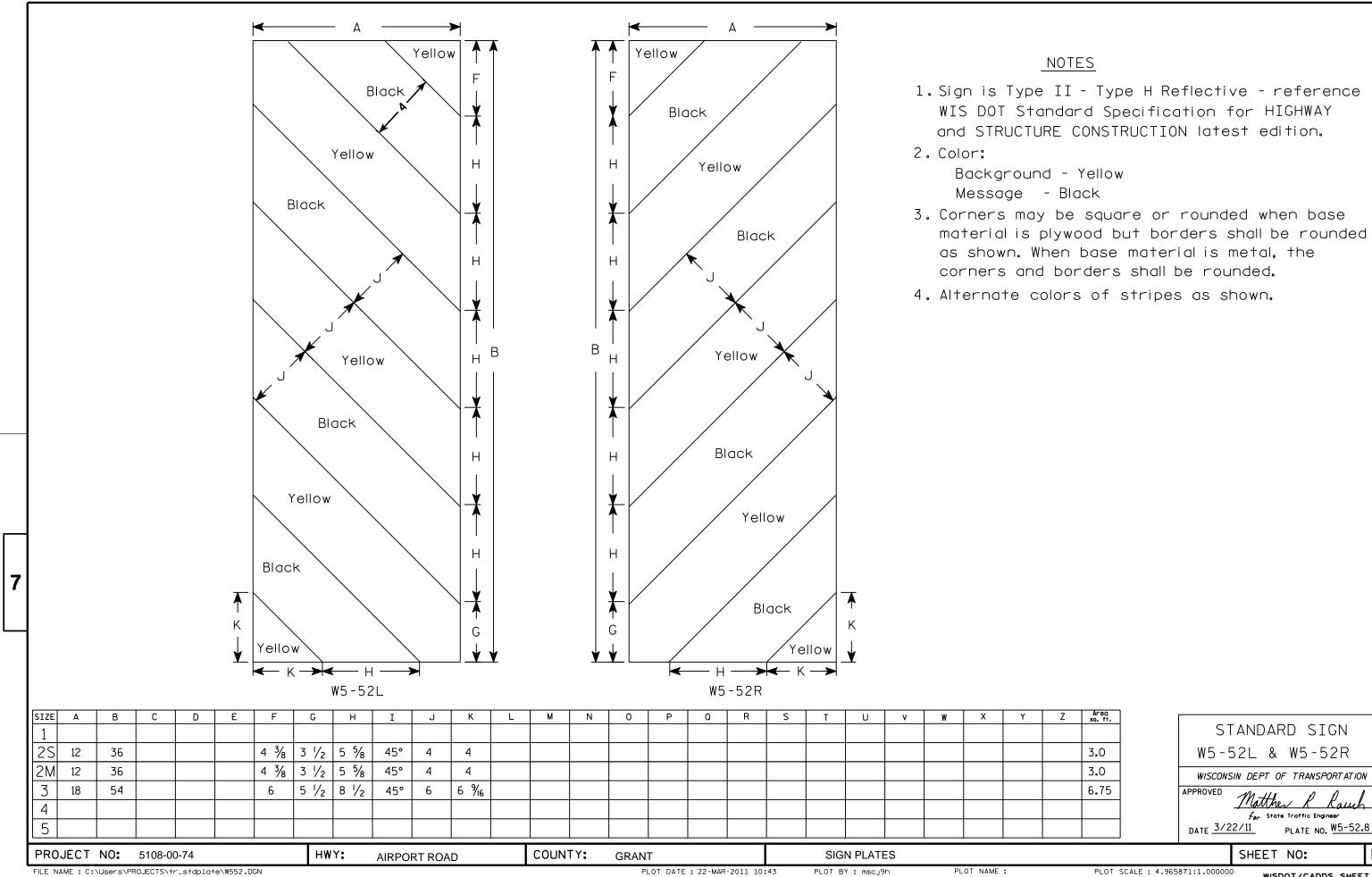
AIRPORT ROAD

PROJECT NO:

SIGN PLATES

GRANT

SHEET NO:



PLOT BY: mscj9h PLOT DATE: 22-MAR-2011 10:43

PLOT NAME :

PLOT SCALE: 4.965871:1.000000

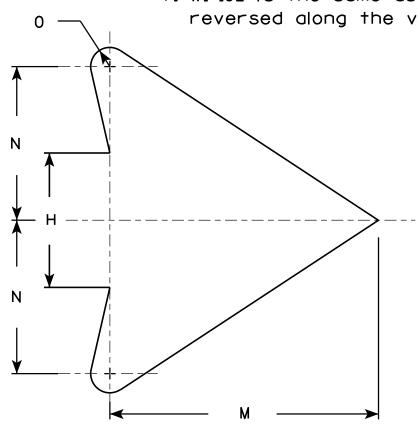
WISDOT/CADDS SHEET 42

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.
- 4. W1-10L is the same as W1-10R except the arrow is reversed along the vertical centerline.



ARROW	DETAIL

SIZE	Δ	В	С	D	E	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	T	U	l v	W	X	Y	Z	Areo sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2	2 %	6 %	2 1/8	4 1/2	45°							4.0
25	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 ¾	5	5/8	3 %	8 %	2 %	5 ¾	45°							6.2
2M	36		1 %	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 %	10 1/2	6	3/4	4	10	3 1/4	6 %	45°							9.0
3	36		1 %	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 %	10 1/2	6	3/4	4	10	3 1/4	6 %	45°							9.0
4	36		1 %	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 %	10 1/2	6	3/4	4	10	3 1/4	6 %	45°							9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1	5 %	13 1/4	4 1/4	9 1/8	45°							16.0

COUNTY:

STANDARD SIGN W1 - 10

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE <u>5/17/12</u>

PLATE NO. W1-10.3

SHEET NO:

5108-00-74

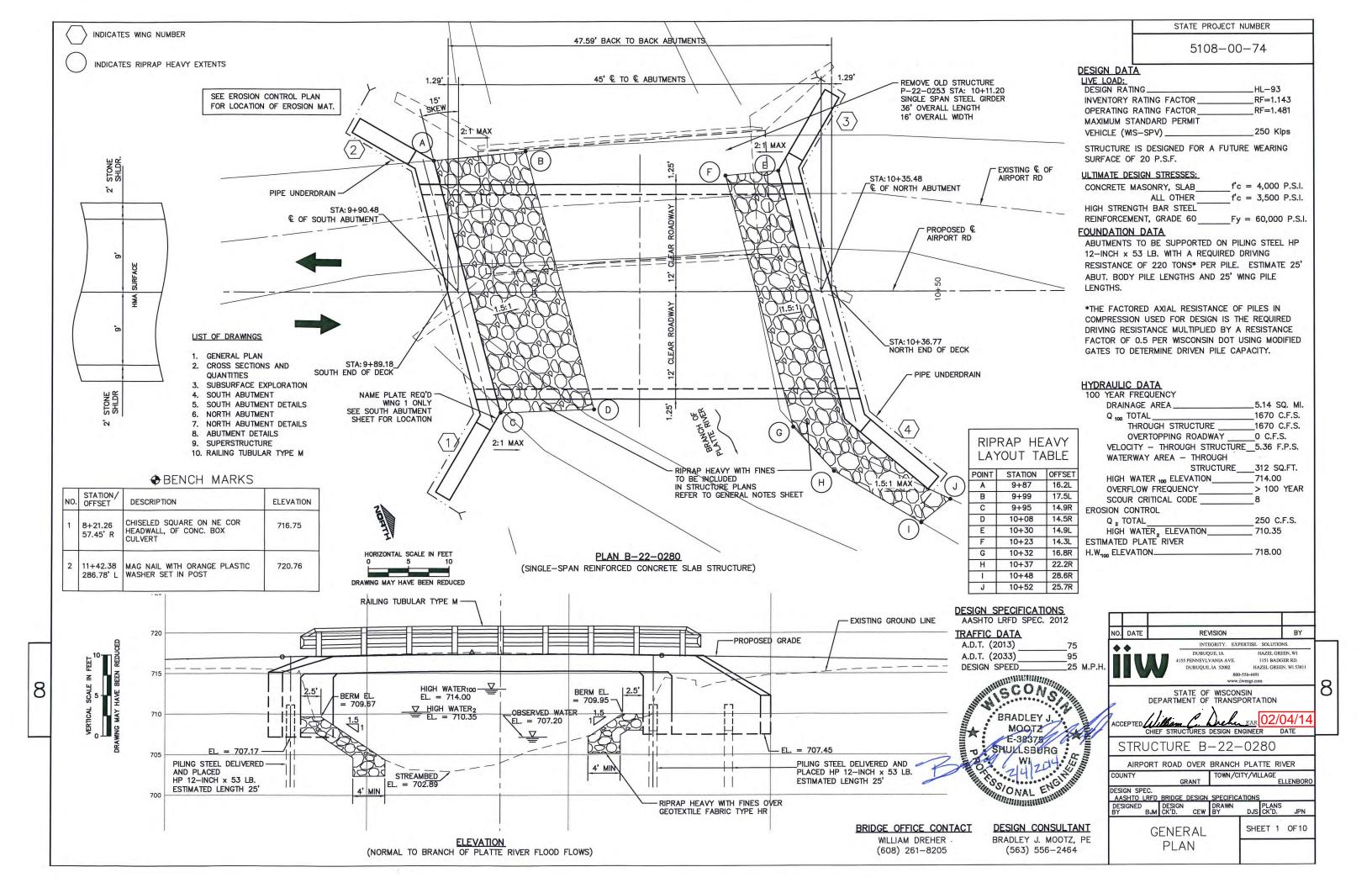
PROJECT NO:

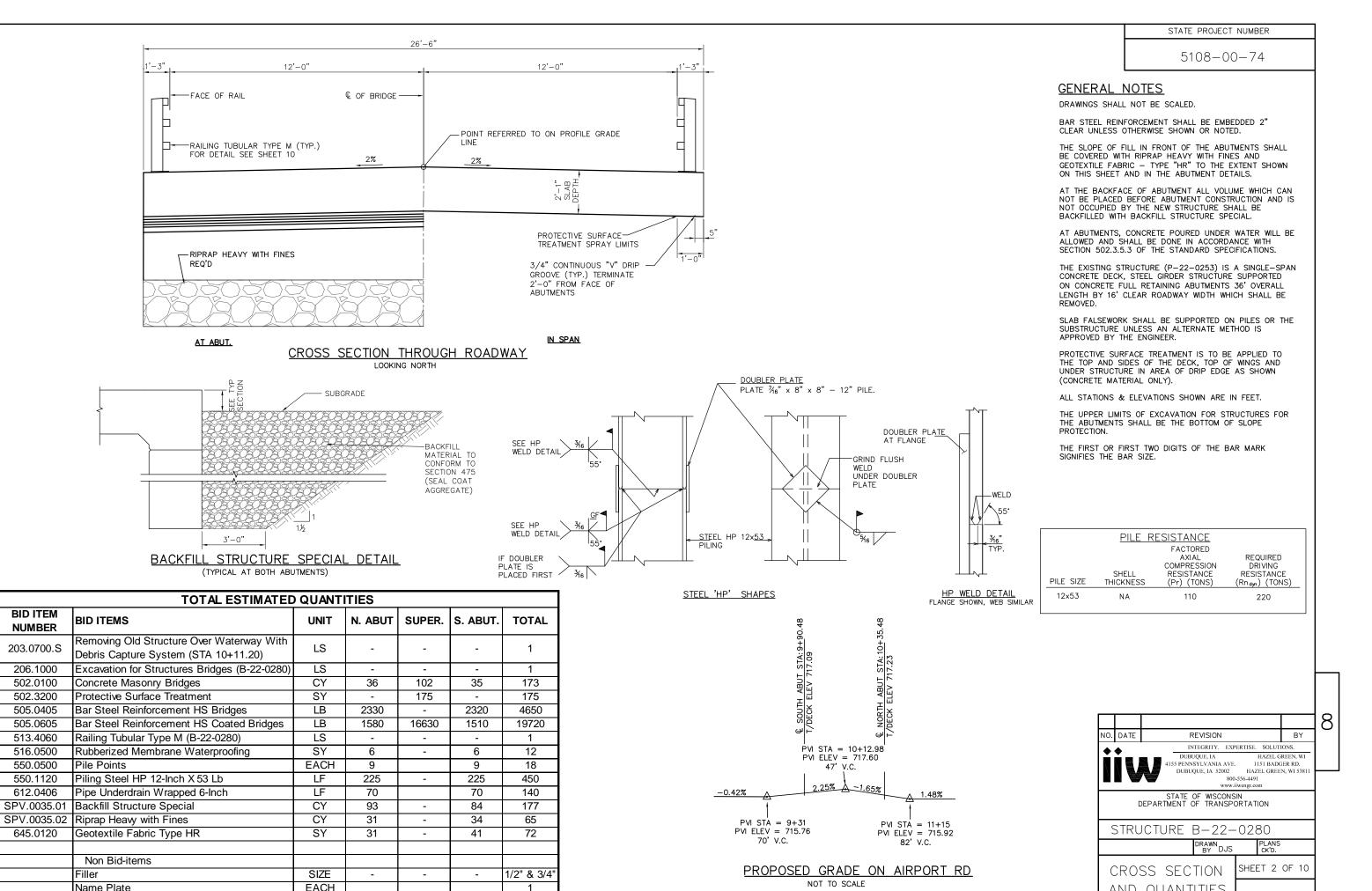
.|← H →|← P→

W1-10R

HWY: AIRPORT ROAD

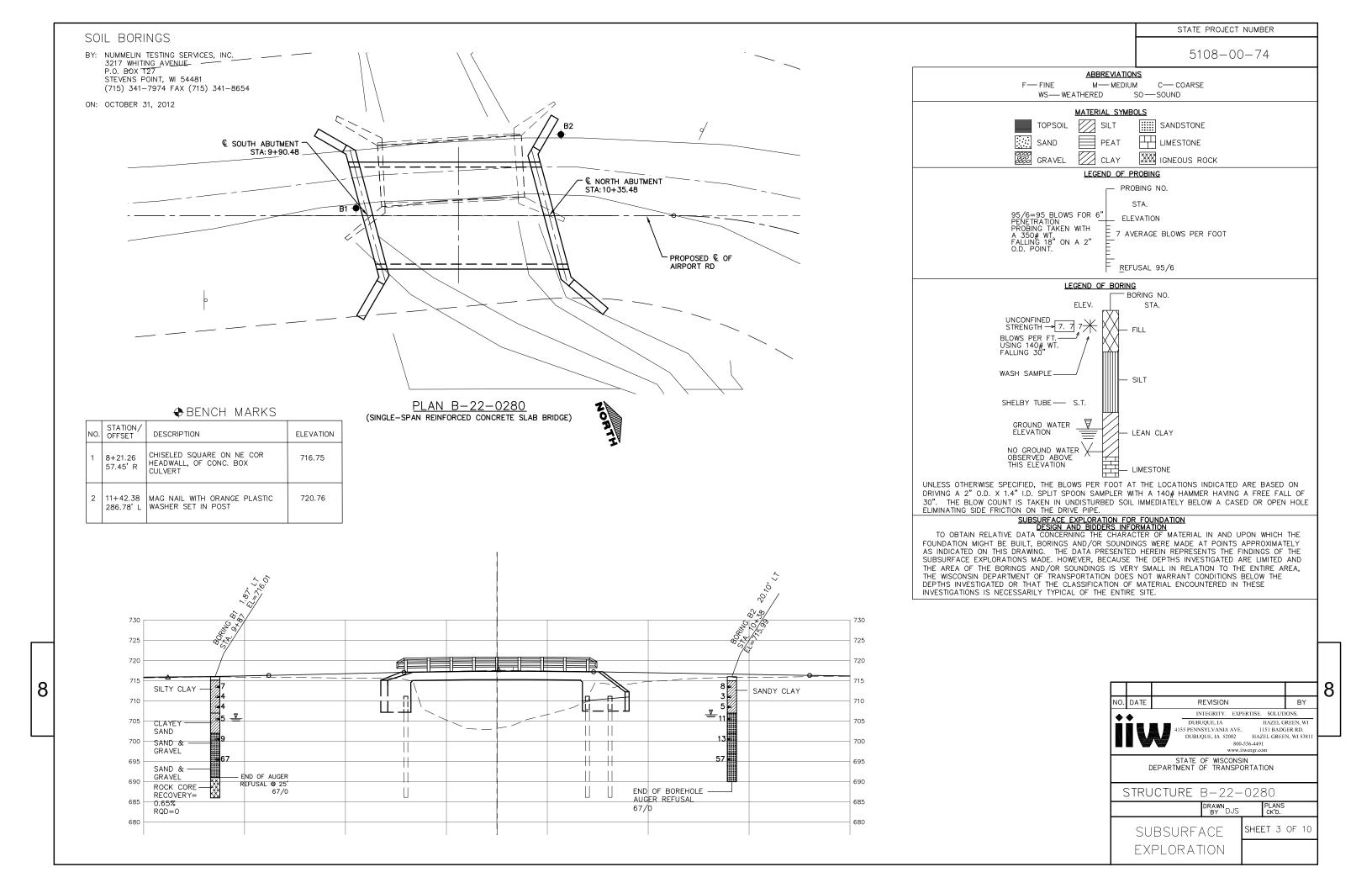
SIGN PLATES

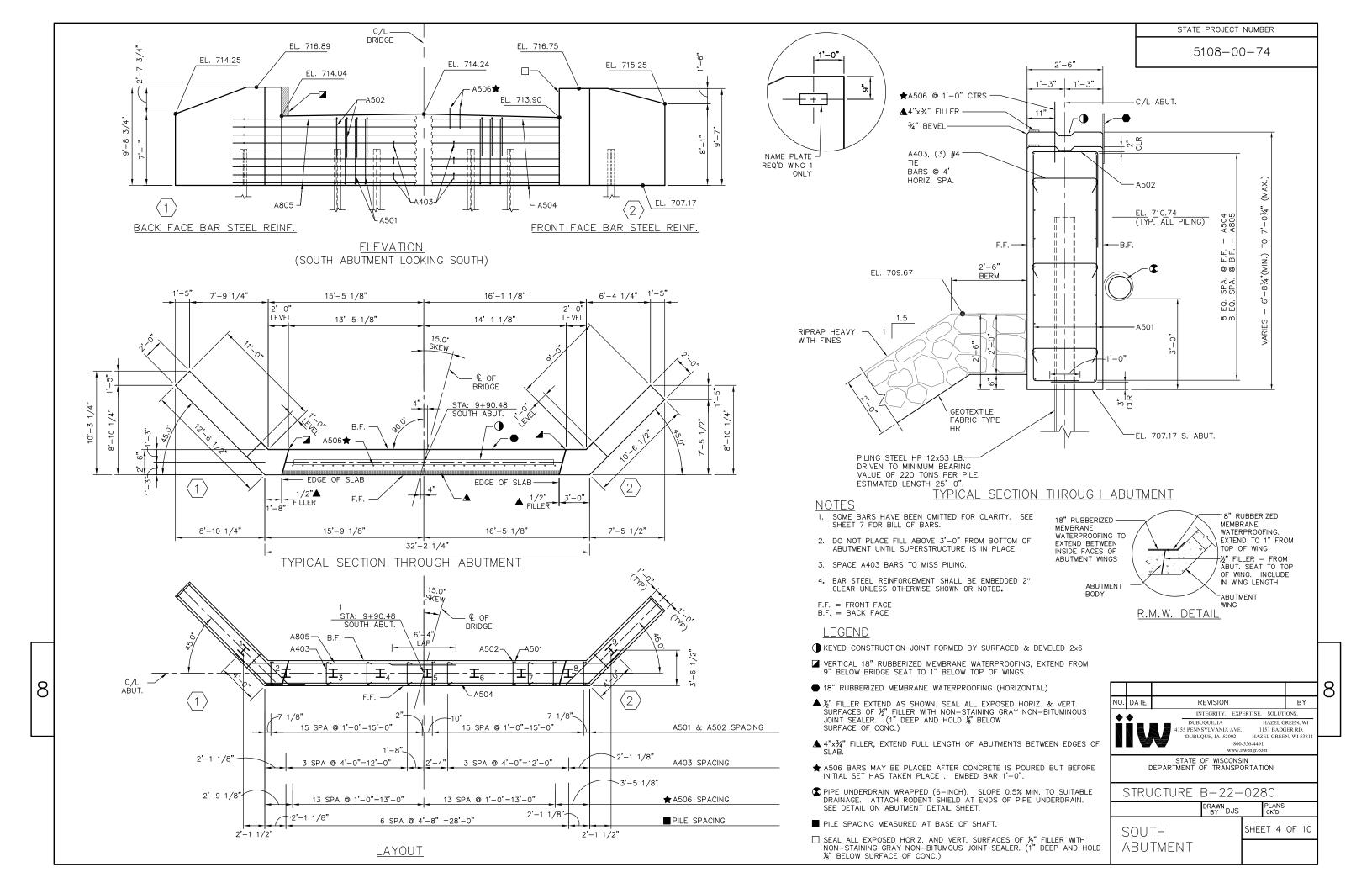


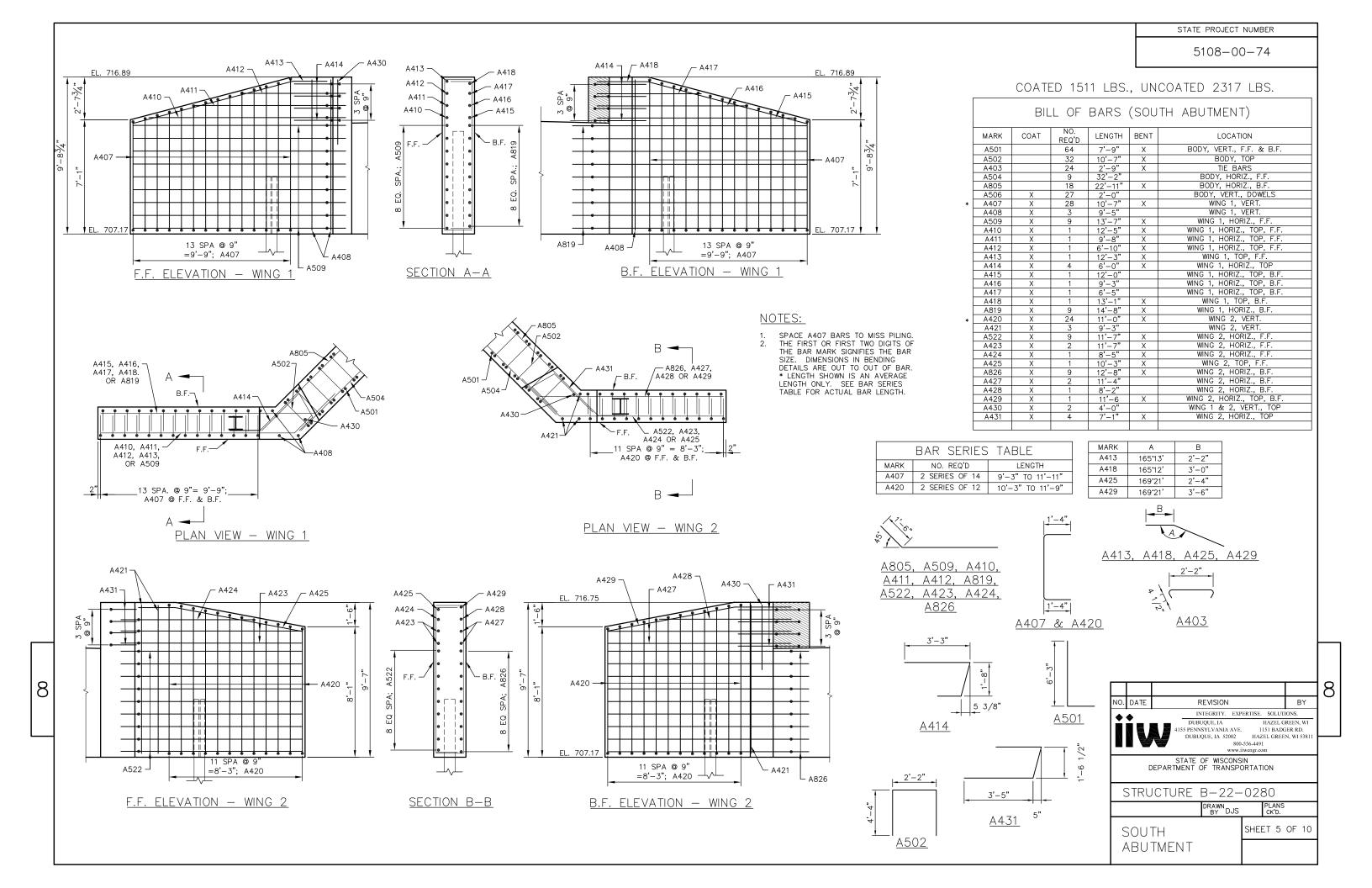


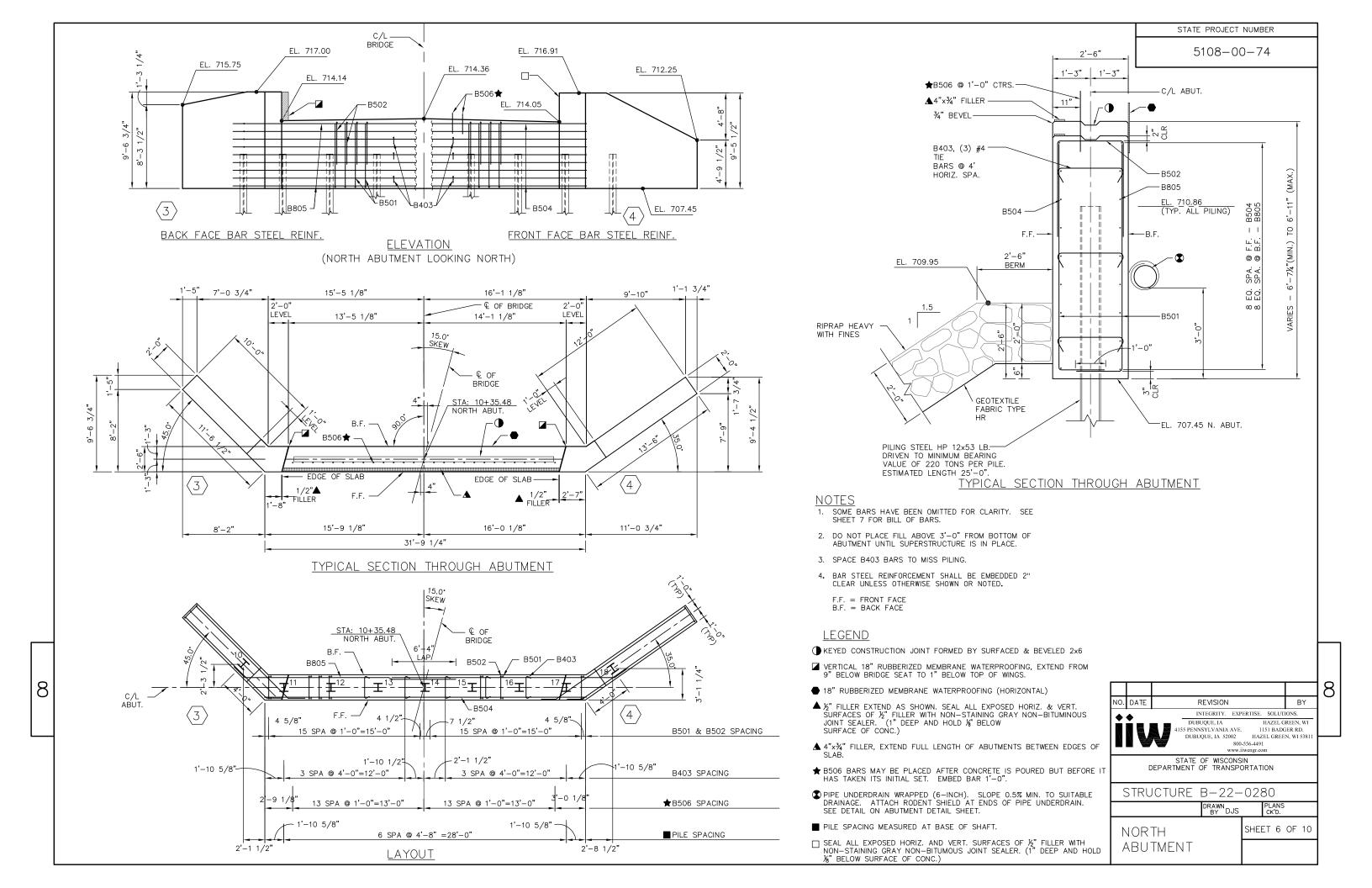
AND QUANTITIES

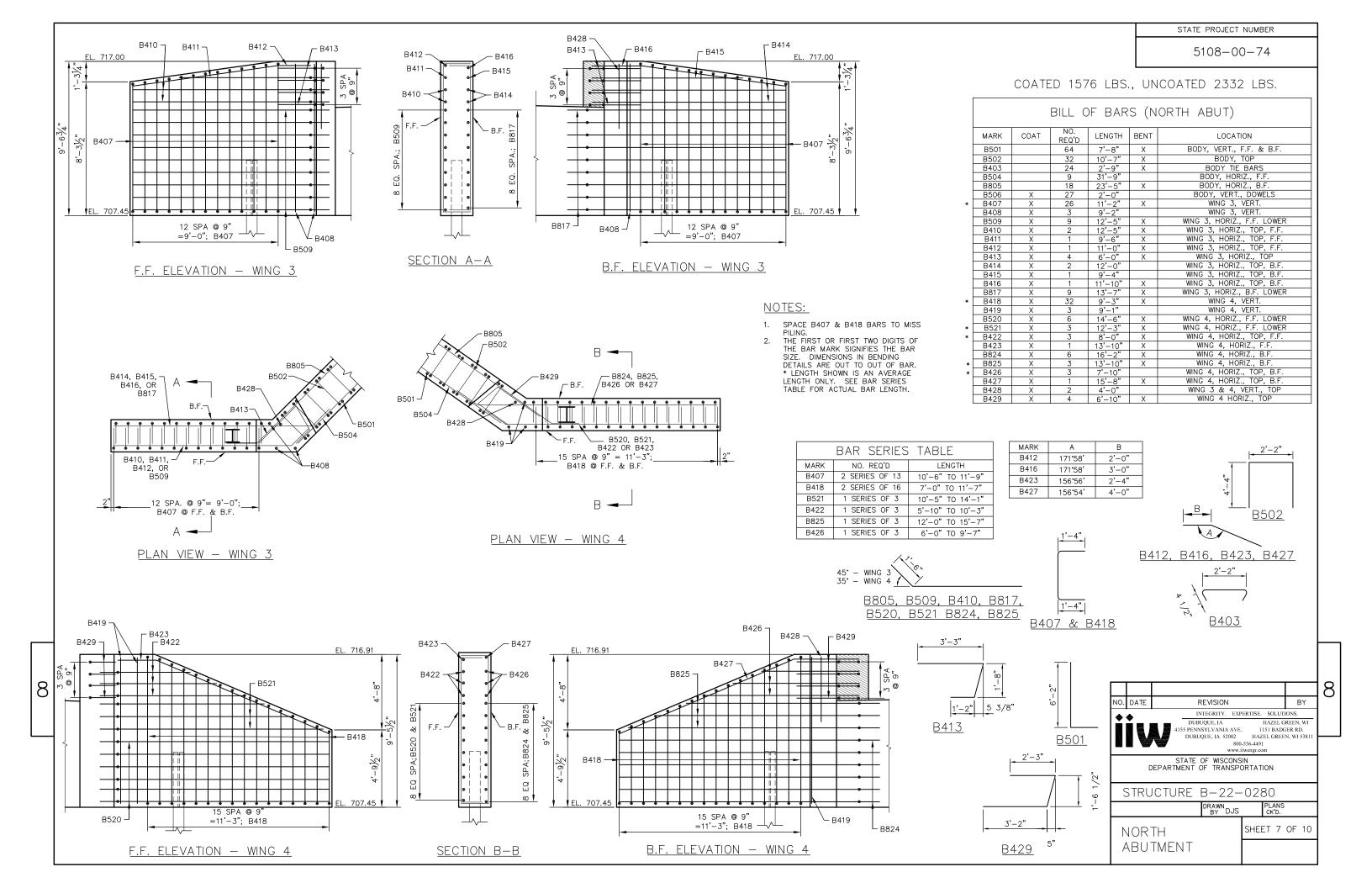
Name Plate



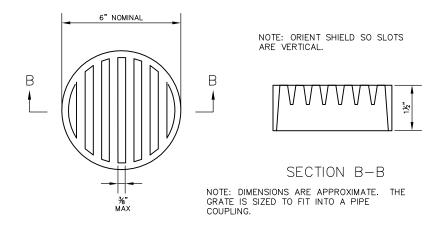








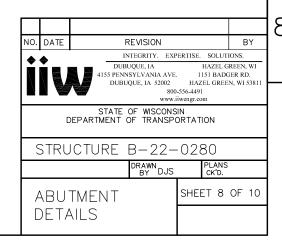
5108-00-74



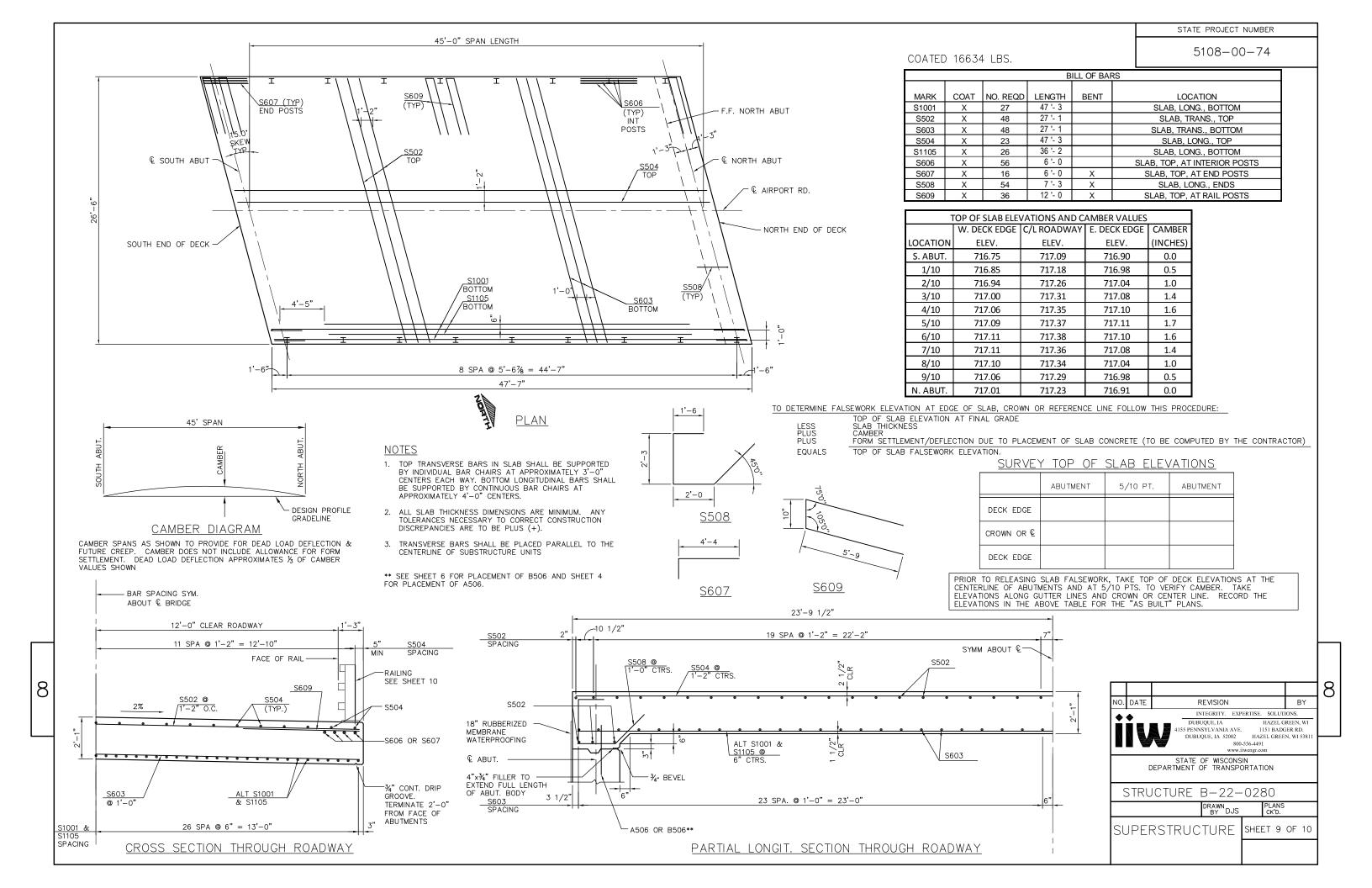
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 \times 1—INCH STAINLESS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

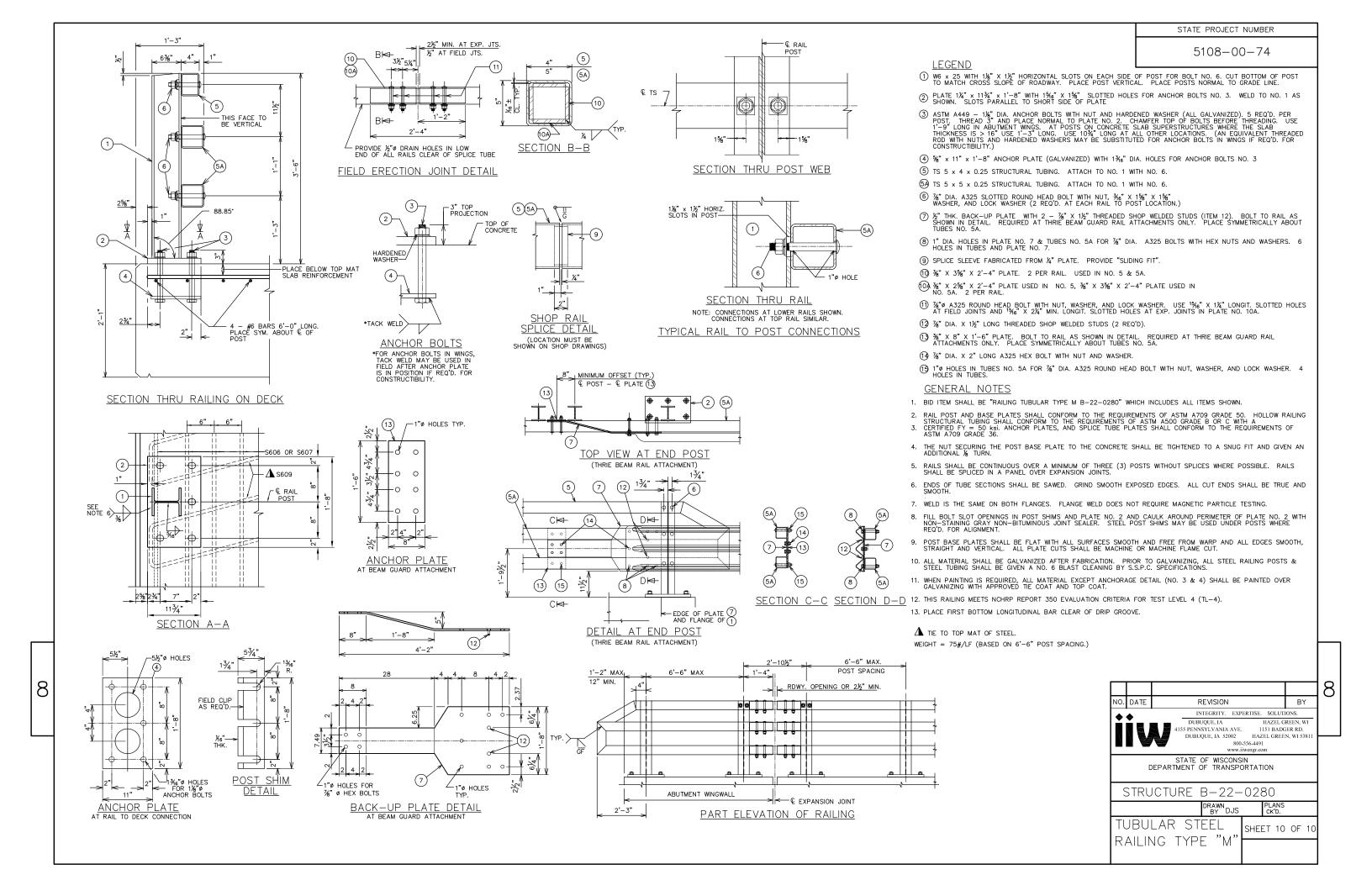
THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

RODENT SHIELD



8





SOUTH OF BRIDGE - AVERAGE END AREAS

Total Volume Table											
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol				
9+00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
9+13.90	40.17	0.04	10.34	0.01	10.34	0.01	10.33				
9+25.00	40.43	1.24	16.57	0.34	26.91	0.36	26.55				
9+50.00	35.45	1.39	35.13	1.58	62.04	1.94	60.10				
9+75.00	15.70	16.37	23.68	10.69	85.72	12.63	73.09				

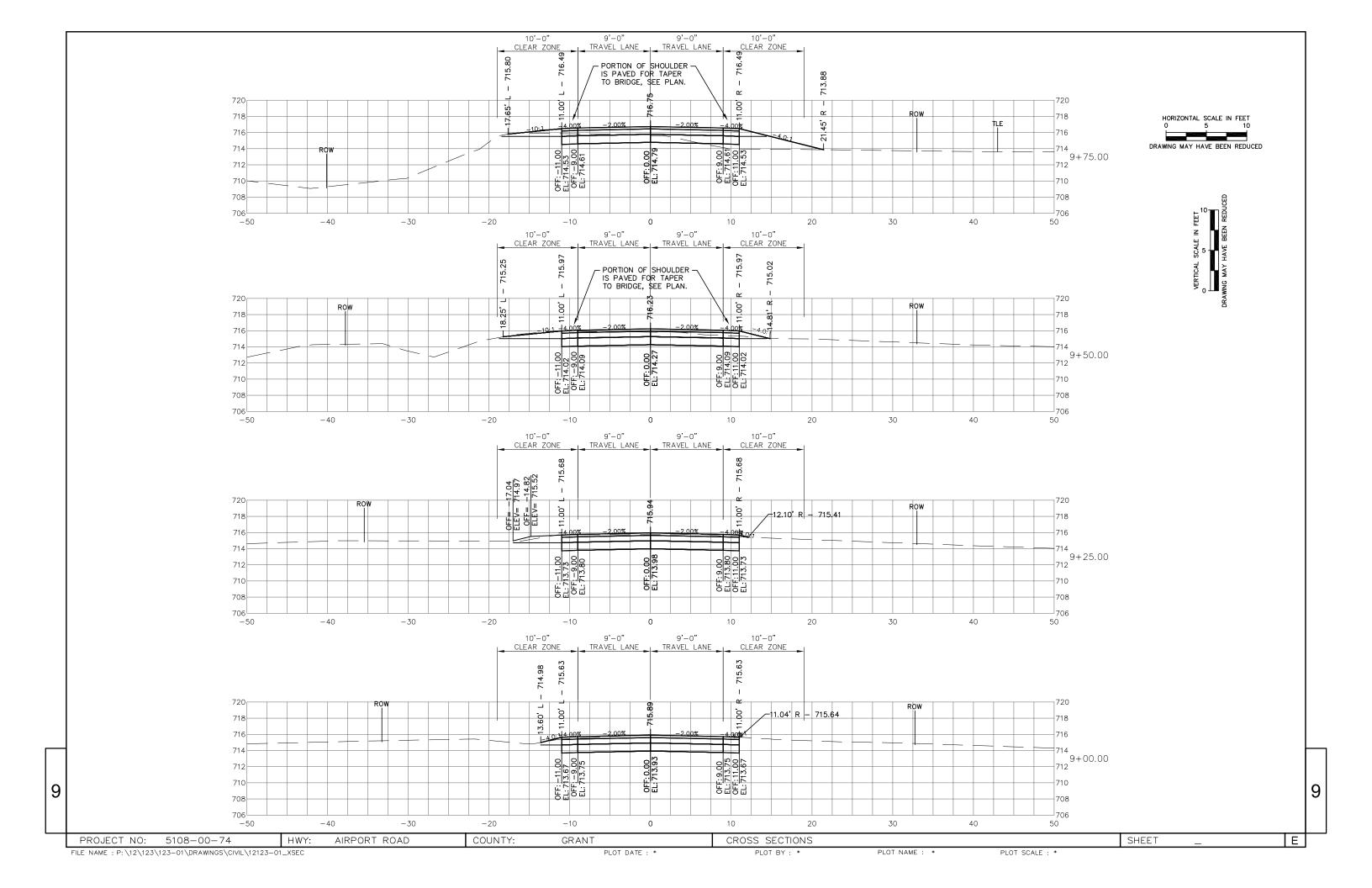
NORTH OF BRIDGE - AVERAGE END AREAS

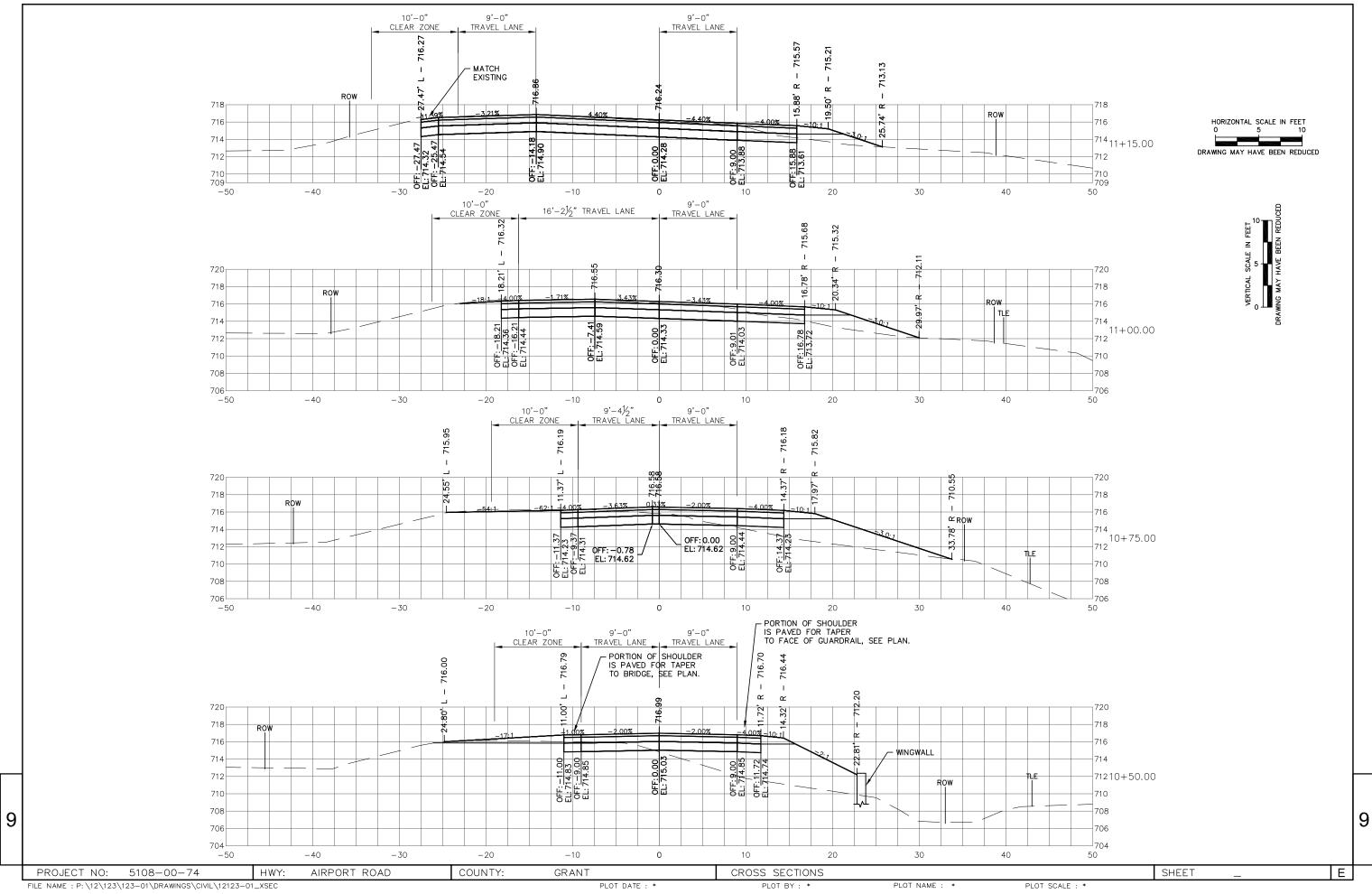
Total Volume Table										
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol			
10+50.00	9.09	72.17	0.00	0.00	0.00	0.00	0.00			
10+75.00	26.21	40.60	16.63	64.67	16.63	64.67	-48.04			
11+00.00	57.27	16.90	40.11	28.09	56.74	92.76	-36.02			
11+15.00	76.45	10.28	39.12	7.94	95.86	100.71	-4.84			

EARTHWORK AT BRIDGE ABUTMENTS, INCLUDED IN BID ITEM EXCAVATION FOR STRUCTURES CUT 177 CY
FILL 0 CY
(INCLUDES 30% SHRINKAGE)
WASTE 177 CY

EARTHWORK SUMMARY CUT 190 CY FILL 120 CY (INCLUDES 30% SHRINKAGE) WASTE 70 CY

SHEET Е AIRPORT ROAD COUNTY: CROSS SECTIONS PROJECT NO: 5108-00-74 HWY: GRANT





Notes



Wisconsin Department of Transportation

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