ORDER OF SHEETS

Section No. 1 Title

Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities

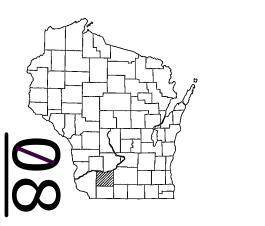
Section No. 3 Miscellaneous Quantitles

Plan and Profile (Includes Erosion Control Plan)

Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 38



DESIGN DESIGNATION

ESALS

MARSH AREA

WOODED OR SHRUB AREA

A.A.D.T. 2016 A.A.D.T. 2036 = 160 D.H.V.

= 60/40 = 10% ASSUMED DESIGN SPEED = 30 MPH

= 42,000

CONVENTIONAL SYMBOLS

FLAN		LUCLIFE	
CORPORATE LIMITS	1//////	GRADE LINE	•
PROPERTY LINE		ORIGINAL GROUND MARSH OR ROCK PROFILE	ROCK
LOT LINE		(To be noted as such)	
LIMITED HIGHWAY EASEMENT	L	SPECIAL DITCH	<u>LABEL</u>
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE			
SLOPE INTERCEPT		CULVERT (Profile View)	∨ ⊔
REFERENCE LINE	0	UTILITIES	_
EXISTING CULVERT		ELECTRIC	— Е —
PROPOSED CULVERT		FIBER OPTIC	F0
(Box or Pipe)	\	GAS	G
COMPRETIDI E EL LING	M	SANITARY SEWER	SAN
COMBUSTIBLE FLUIDS	-CAUTION-	STORM SEWER	ss
	VV	TELEPHONE	<u> — т —</u>
MADSH ADEA	(# # T)	WATER	W

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

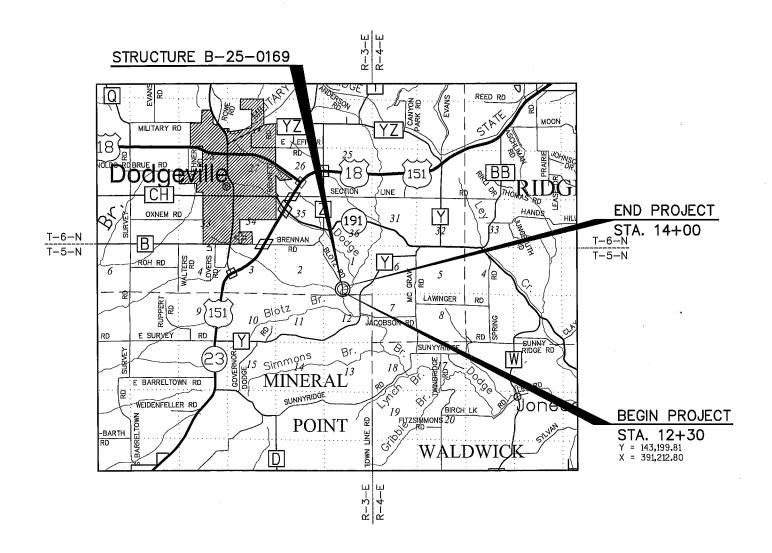
PLAN OF PROPOSED IMPROVEMENT

TOWN OF DODGEVILLE, BLOTZ ROAD

(DODGE BRANCH BRIDGE B-25-0169)

TOWN ROAD IOWA COUNTY

STATE PROJECT NUMBER 5699-00-75



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

ACCEPTED FOR

ACCEPTED FOR

CONTRACT

PROJECT

WISC 2016251

STATE PROJECT

5699-00-75

APPROVED FOR THE DEPARTMENT

Management Consultant KL ENGINEERING INC.

S:\PROJECTS\K19210 BLOTZ ROAD STRUCTURE T. OF DODGEVILLE\SHEETSPLAN\TITLE SHEET.DWG

TOTAL NET LENGTH OF CENTERLINE = 0.032 MI.

PLOT BY : GABBEY, MICHAELIS

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN

COUNTY COORDINATE SYSTEM (WCCS), IOWA COUNTY,

PLOT SCALE : 1" = 1'

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION

SILT FENCE AND CULVERT PIPE CHECKS SHALL BE PLACED AS SHOWN ON THE PLAN OR AS

SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 20), AND MULCHED AS DIRECTED BY THE ENGINEER. ALL POST CONSTRUCTION WET AREAS SHALL BE

ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA

COORDINATES AND BEARINGS ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY

THAT ARE NOT SHOWN.

COORDINATE SYSTEM (WCCS), IOWA COUNTY.

SEEDED WITH SEEDING MIXTURE NO. 60.

INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER.

OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD

CONSTRUCTION AND IN PLACE PRIOR TO STRUCTURE REMOVAL.

DNR LIAISON

EMAIL: twnclerk@mhtc.net

IOWA COUNTY HIGHWAY DEPARTMENT

CRAIG HARDY, COMMISSIONER 1215 NORTH BEQUETTE STREET DODGEVILLE, WI 53533 PH: (608) 935-3381

DESIGN CONSULTANT

SPRING GREEN, WI 53588

PHONE: (608) 588-7484

FAX: (608) 588-9322

ATTN: ELLERY SCHAFFER, P.E.

560 SLINRISE DRIVE

JEWELL ASSOCIATES ENGINEERS, INC.

EMAIL: ellery.schaffer@jewellassoc.com

CELL: (608) 574-2935 EMAIL: craig.hardy@iowacounty.org

UTILITIES

ELECTRIC

ALLIANT ENERGY ATTN: GREG EWERS 490 SHAKERAG ST MINERAL POINT, WI 53565 OFFICE: (608) 458-4209 CELL: (608) 558-7726 EMAIL: gregewers@alliantenergy.com

TELEPHONE

FRONTIER COMMUNICATIONS ATTN:DANA GILLETT 100 COMMUNICATIONS DRIVE SUN PRAIRIE, WI 53590 PH: (608) 837-1605 EMAIL: Dána.Gillett@ftr.com

or (800) 242-8511 www.DiggersHotline.com

* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE

	LIST OF STANDARD ABBREVIATIONS									
ABUT	Abutment	INV	Invert	SALV	Salvaged					
AC	Acre	ΪΡ	Iron Pipe or Pin	SAN S	Sanitary Sewer					
AGG	Aggregate	IRS	Iron Rod Set	SEC	Section					
AH	Ahead	JT	Joint	SHLDR	Shoulder					
<	Angle	JCT	Junction	SHR	Shrinkage					
ASPH	Asphaltic	LHF	Left-Hand Forward	SW	Sidewalk					
AVG	Average	Ī	Length of Curve	S	South					
ADT	Average Daily Traffic	LIN FT or LF		SQ	Square					
BAD	Base Aggregate Dense	LC	Long Chord of Curve	SF or SQ FT	Square Feet					
BK	Back	MH	Manhole	SY or SQ YD	Square Yard					
BF	Back Face	МВ	Mailbox	STD	Standard					
ВМ	Bench Mark	ML or M/L	Match Line	SDD	Standard Detail Drawings					
BR	Bridge	N ′	North	STH	State Trunk Highways					
C or C/L	Center Line	Υ	North Grid Coordinate	STA	Station					
CC '	Center to Center	OD	Outside Diameter	SS	Storm Sewer					
CTH	County Trunk Highway	PLE	Permanent Limited	SG	Subgrade					
CR	Creek		Easement	SE	Superelevation					
CR	Crushed	PT	Point	SL or S/L	Survey Line					
CY or CU YD	Cubic Yard	PC	Point of Curvature	SV	Septic Vent					
CP	Culvert Pipe	PI	Point of Intersection	T	Tangent					
C & G	Curb and Gutter	PRC	Point of Reverse Curvature	TEL	Telephone					
D	Degree of Curve	PT	Point of Tangency	TEMP	Temporary					
DHV	Design Hour Volume	POC	Point On Curve	TI	Temporary Interest					
DIA	Diameter	POT	Point on Tangent	TLE	Temporary Limited					
E	East	PVC	Polyvinyl Chloride		Easement					
Χ	East Grid Coordinate	PCC	Portland Cement Concrete	t	Ton					
ELEC	Electric (al)	LB	Pound	T or TN	Town					
EL or ELEV	Elevation	PSI	Pounds Per Square Inch	TRANS .	Transition					
ESALS	Equivalent Single Axle	PE	Private Entrance	TL or T/L	Transit Line					
	Loads	R	Radius	T	Trucks (percent of)					
EBS	Excavation Below Subgrade	RR	Railroad	TYP	Typical					
FF	Face to Face	R	Range	UNCL	Unclassified					
FE	Field Entrance	RL or R/L	Reference Line	UG	Underground Cable					
F	Fill	RP .	Reference Point	USH	United States Highway					
FG E	Finished Grade	RCCP	Reinforced Concrete	VAR	Variable					
FL or F/L	Flow Line	55015	Culvert Pipe	V	Velocity or Design Speed					
FT	Foot	REQ'D	Required	VERT	Vertical					
FTG	Footing	RES	Residence or Residential	VC	Vertical Curve					
GN	Grid North	RW	Retaining Wall	VOL	Volume					
HT	Height	RT	Right	WM	Water Main					
CWT	Hundredweight	RHF	Right-Hand Forward	WV	Water Valve					
HYD	Hydrant	R/W	Right-of-Way	W	West					
INL	Inlet	R	River	WB	Westbound					
ID	Inside Diameter	RD	Road	YD	Yard					

MULCH ALL MAINLINE SLOPES AS DIRECTED BY THE ENGINEER IN THE FIELD. FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%.

DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED PRIOR TO

ADJUST DITCH GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

3%-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 134-INCH UPPER LAYER AND A 13/4-INCH LOWER LAYER. THE NOMINAL SIZE OF AGGREGATE USED FOR THE LOWER LAYER

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

INLET & OUTLET ELEVATIONS FOR CULVERT PIPES AS SHOWN ON THE PLAN MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS.

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT.

WETLANDS ARE PRESENT IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT BEYOND THE SLOPE INTERCEPTS FROM STA. 13+06-STA. 14+00, LT.

	HYDROLOGIC SOIL GROUP												
		,	A			В		-	0		ı	D	
	S		RANGE CENT)	S	SLOPE RANGE (PERCENT)				RANGE CENT)	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 .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						.80 -	.95						
BRICK						.70 -	.80						
DRIVES, WALKS	.7585												
ROOFS						. 75 -	.95						
GRAVEL ROADS	, SHO	ULDEF	RS			.40 -	.60						

RDWY

TOTAL PROJECT AREA= 0.33 ACRES

PROJECT NO: 5699-00-75

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.24 ACRES

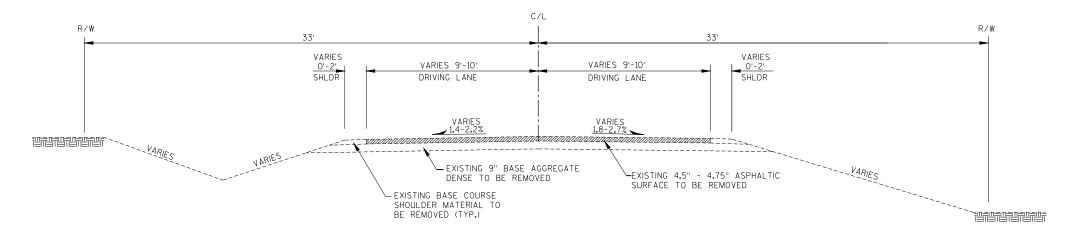
HWY: BLOTZ ROAD

COUNTY: IOWA

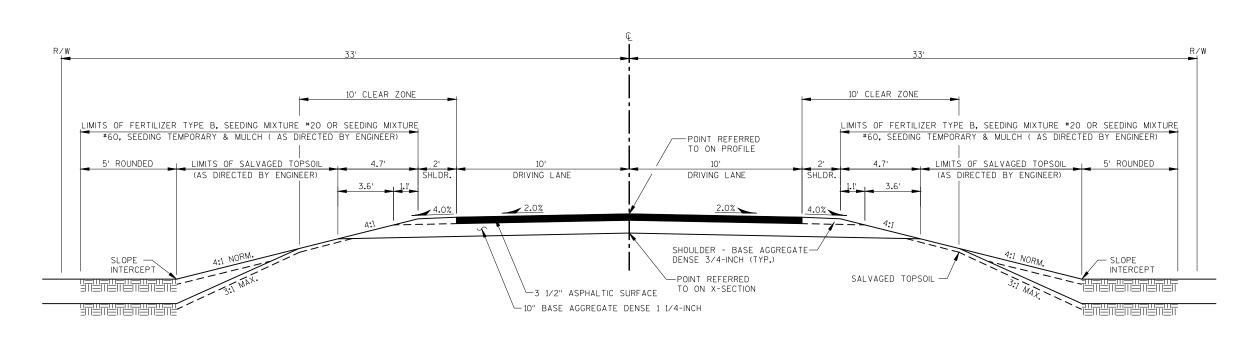
GENERAL NOTES, HSG CHART, CONTACTS & UTILITIES

SHEET

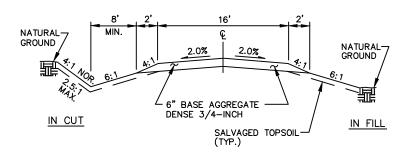
Ε



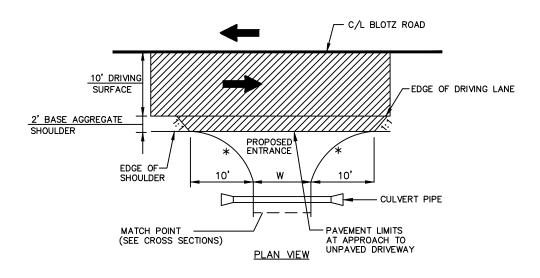
TYPICAL EXISTING SECTION



TYPICAL FINISHED SECTION



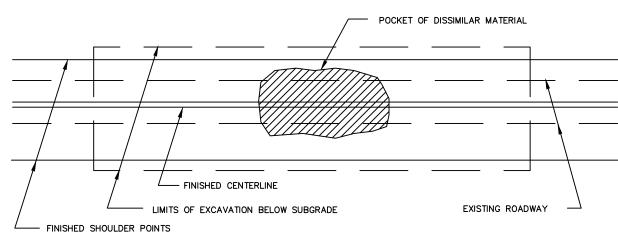
TYPICAL CROSS-SECTION FOR F.E. F.E. - STA. 13+64, LT.



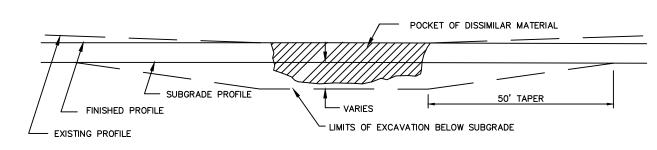
APPROACH AT F.E.

TYPICAL FIELD ENTERANCE (F.E.) DETAILS

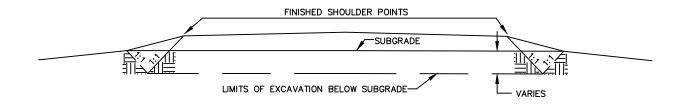
LIMITS OF ASPHALTIC SURFACE * RADIUS = 10'



PLAN VIEW



PROFILE VIEW



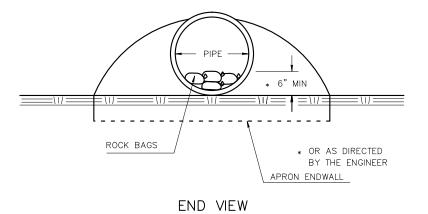
CROSS SECTION VIEW

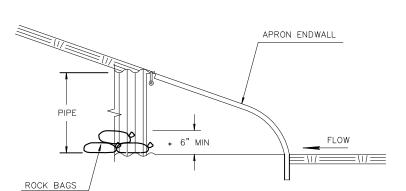
- 1. EXACT LOCATION OF E.B.S. (EXCAVATION BELOW SUBGRADE) SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 2. E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
- 3. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED. LATERAL LIMITS OF EXCAVATION

SHALL BE THE SUBGRADE SHOULDER POINTS.

EXCAVATION BELOW SUBGRADE (E.B.S.)

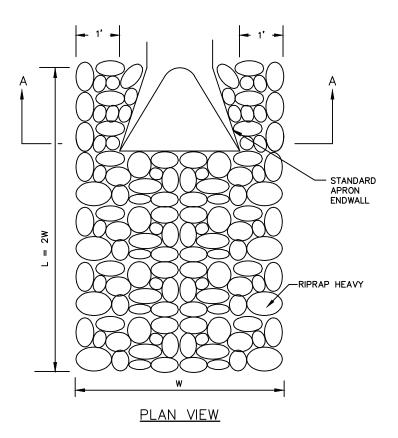
Ε PROJECT NO:5699-00-75 CONSTRUCTION DETAILS SHEET HWY: BLOTZ ROAD COUNTY: IOWA PLOT SCALE: 0.830110 PLOT BY: GABBEY, MICHAELIS

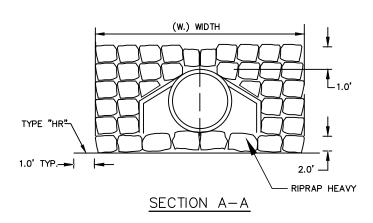




CULVERT PIPE CHECKS

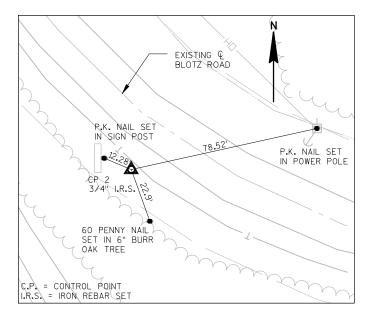
SIDE VIEW

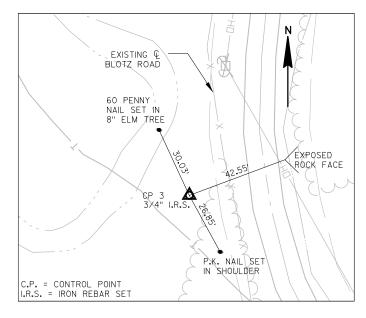


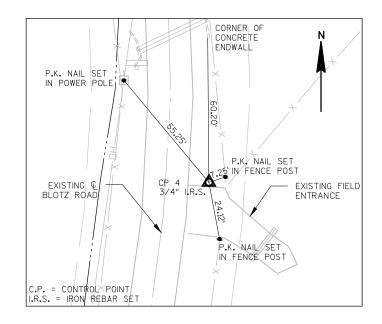


RIPRAP HEAVY DISCHARGE APRON (UNLESS NOTED OTHERWISE ON PLAN)

PROJECT NO:5699-00-75 HWY:BLOTZ ROAD COUNTY:IOWA CONSTRUCTION DETAILS







TIES TO C.P.#3

STA. 10+38; 17.3' LT. Y = 143,004.63 X = 391,195.95

TIES TO C.P.#4

STA. 14+65; 18.1' RT. Y = 143,431.93 X = 391,266.33

▲ CONTROL POINTS

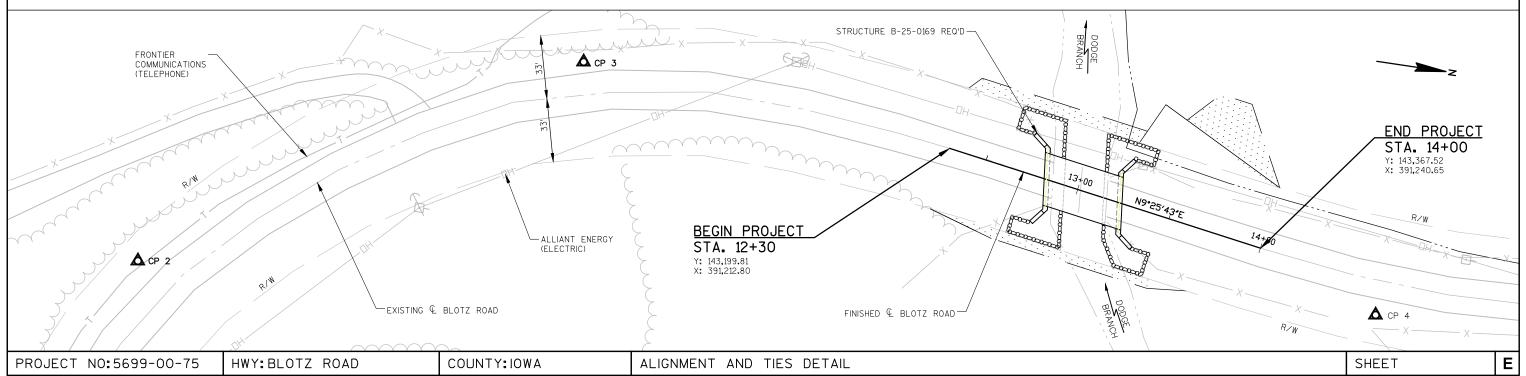
TIES TO C.P.#2

STA. 7+93; 22.3' LT. Y = 142,790.01 X = 391,332.30

No.	STATION	DESCRIPTION	Y	Х
2	7+93	3/4" REBAR SET 11.6'± SOUTHWEST OF THE EDGE OF ASPHALT, 22.3' LT.	142,790.01	391,332.30
3	10+38	3/4" REBAR SET 5.9'± WEST OF EDGE ASPHALT, 17.3' LT.	143,004.63	391,195.95
4	14+65	3/4" REBAR SET 8.6'± EAST OF THE EDGE OF ASPHALT, 18.1' RT.	143,431.93	391,266.33

BLOTZ ROAD STATION LAYOUT

STATION	Y	X	COMMENTS
12+30	143,199.81	391,212.80	BEGIN PROJECT
12+50	143,219.54	391,216.07	-
12+81.71	143,250.82	391,221.27	END OF DECK
13+00	143,268.87	391,224.26	-
13+24.29	143,292.83	391,228.24	END OF DECK
13+50	143,318.19	391,232.45	_
14+00	143,367.52	391,240.65	END OF PROJECT



DATE 05 LINE	MAY16	E S	TIMATE	OF QUAN	T I T I E S 5699-00-75
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0490	650. 6500	Construction Staking Structure Layout (structure) 01. B-25-0169	LS	1. 000	1. 000
0500	650. 9910	Construction Staking Supplemental Control (project) 01. 5699-00-75	LS	1. 000	1. 000
0510	650. 9920	Construction Staking Slope Stakes	LF	130.000	130.000
0520	690. 0150	Sawing Asphal t	LF	40.000	40.000
0530	715. 0502	Incentive Strength Concrete Structures	DOL	852. 000	852. 000

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

REMOVING SMALL PIPE CULVERTS

STATION 13+64	LOCATION MAINLINE, LT.	TYPE 30-INCH CMP	LENGTH (FT.) 17	203.0100 (EA.) 1
		TOTALS =		1

BASE AGGREGATE DENSE

		305.0110 BASE AGGREGATE	305.0120 BASE AGGREGATE
		DENSE 3/4-INCH	DENSE 1 1/4-INCH
STATION - STATION	LOCATION	(TON)	(TON)
12+30 - 14+00	MAINLINE	15	247
13+64	FE MAINLINE, LT.	35	-
-	UNDISTRIBUTED	5	23
	TOTALS =	55	270

EARTHWORK SUMMARY

			**	P**				•	REDUCED	REDUCED	EXPANDED	EXPANDED	EXPANDED	•					
			(1)	SALVAGED/				MARSH	EBS	MARSH	EBS	ROCK	UNEXPANDED	EXPANDED				
			205	0100	UNUSABLE		205.0400	205 0200	INFILL	IN FILL	BACKFILL	BACKFILL		FILL	FILL	MASS			
			COMMONE	XCAVATION	PAVEMENT	AVAILABLE	MARSH	ROCK	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	ORDINATE		208.0100	
			CUT (2)	EBS (3)	MATERIAL	MATERIAL	EXCAVATION	EXCAVATION	FACTOR	FACTOR	FACTOR	FACTOR	FACTOR		FACTOR	+/-	WASTE	BORROW	
CATEGORY	FROM/TO STA	LOCATION	(CY)	(CY)	(CY) (4)	(CY) (5)	(CY) (6)	(CY) (7)	0.6 (8)	0.8 (9)	1.5 (10)	1.5 (11)	1.1 (12)		1.25 (13)	(CY) (14)	(CY)	(CY)	COMMENT:
010	12+30 - 14+00	MAINLINE	150	-	-	150	-	-	-	-	-	-	-	60	75	75	-	-75	
	13+64	MAINLINE, LT.	-	-	-	-	-	· -	-	-	-	-	-	80	100	-100	-	100	
	,			,		,					,						•		
	TO [*]	TALS =	150			150								140	175	-25		25	

NOTES:

- 1.) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS, ITEM NUMBER 205,0100
- 2.) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN OUT
- 3.) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.
- 4.) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 5.) AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 6.) MARSH EXCAVATION TO 8E BACKFILLED WITH SELECT CRUSHED MATERIAL. ITEM 205.0400
- 7.) ROCK EXCAVATION, ITEM NUMBER 205,0200
- 8.) REDUCED MARSH IN FILL EXCAVATED MARSH MATERIAL IS USABLE IN FILLS OUTISDE THE 1:1 SLOPE. MARSH IN FILL REDUCTION FACTOR = 0.6
- 9.) REDUCED EBS IN FILL EXCAVATED EBS MATERIAL IS USEABLE IN FILLS OUTISDE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.8
- 10) EXPANDED MARSH BACKFILL THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. MARSH BACKFILL FACTOR = 1.5. ITEM NUMBER 312.0115

COUNTY: IOWA

- 11 EXPANDED EBS BACKFILL THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL FACTOR = 1.3 ITEM NUMBER 312.0115
- 12.) EXPANDED ROCK FACTOR = 1.1
- 13.) EXPANDED FILL FACTOR 1.25: EXPANDED FILL = (UNEXPANDED FILL REDUCED MARSH IN FILL)*1.25
- 14.) THE MASS ORDINATE+ OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE CATEGORY. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE CATEGORY.

P PAY PLAN QUANTITY

ASPHALTIC SURFACE

		455.0605	450.4000 HMA COLD	465.0105
		TACK COAT	WEATHER PAVING	ASPHALTIC SURFACE
STATION - STATION	LOCATION	(GAL)	(TON)	(TON)
12+30 - 14+00	MAINLINE	15	15	57
-	UNDISTRIBUTED	5	5	8
	TOTAL S =	20	20	65

HWY: BLOTZ ROAD

CULVERT PIPE

520.1036 520.3536 APRON ENDWALLS FOR **CULVERT PIPE** CLASS III-B CULVERT PIPE 36-INCH 36-INCH LOCATION STATION (EACH) (LF) 13+64 MAINLINE, LT. 36 TOTALS = 36

MISCELLANEOUS QUANTITIES

MINIMUM STEEL THICKNESS = 0.079 INCHES MINIMUM ALUMINUM THICKNESS = 0.105 INCHES

RIPRAP HEAVY

645.0120 606.0300 GEOTEXTILE FABRIC RIPRAP HEAVY TYPE HR STATION - STATION LOCATION (CY) (SY) 13+30 - 13+42 MAINLINE, LT. UNDISTRIBUTED 2 .3 TOTALS = 20 10

*MORE LISTED ELSEWHERE

PROJECT NO: 5699-00-75

Ε

	FINISHING ITEMS		ALL BID ITEMS ARE CA	ATEGORY 010 UNLESS OTHERWISE NO
P 625.0500 SALVAGEI TOPSOIL STATION - STATION LOCATION (SY)	**P**	#630.0160 630.0200 630.0300 DING MIXTURE SEEDING SEEDING NO. 60 TEMPORARY BORROW PIT (LB) (LB) (LB) (LB)	SILT FENCE 628.1520 628.1504 SILT FENCE SILT FENCE MAINTENANCE	
# STATION 13+07 - STATION 14+0	610 0.7 16 20 0.3 -	1.0 8 - - 1.0 8 1.0	STATION - STATION LOCATION (LF) (LF) 12+30 - 12+93 MAINLINE, RT. 109 218 12+30 - 12+93 MAINLINE, LT. 93 186 13+14 - 14+00 MAINLINE, RT. 107 214 13+14 - 14+00 MAINLINE, LT. 201 402 - UNDISTRIBUTED 130 260 TOTALS = 640 1280	
CULVERT PIPE CHECKS 628.7555	PERMANENT	SIGNING 634.0612 637.2230 POSTS WOOD SIGNS 4X6 - INCH TYPE II	REMOVING SIGNS TYPE II AND REMOVING SMALL SIGN SUPPORTS	638.2602 638.3000 REMOVING REMOVING SIGNS SMALL SIGN
STATION LOCATION FIPE CHECKS 13+64 MAINLINE, LT. 5 TOTALS = 5	STATION SW QUADRANT STRUCTURE B-25-0169 SE QUADRANT STRUCTURE B-25-0169 NW QUADRANT STRUCTURE B-25-0169 NE QUADRANT STRUCTURE B-25-0169 W5-52R W5-52R W5-52L	SIZE X 12-FT REFLECTIVE F (INCH X INCH) (EACH) (SF) 12X36 1 3.00 12X36 1 3.00 12X36 1 3.00 12X36 1 3.00 4 12.00	LOCATION DESCRIPTION BLOTZ RD/CTH Y INT. (SOUTH OF BRIDGE) R12-1 MAINLINE (325 FT SOUTH OF P-25-0118) R12-1 SW QUADRANT STRUCTURE P-25-0118 W5-52L SE QUADRANT STRUCTURE P-25-0118 W5-52R NW QUADRANT STRUCTURE P-25-0118 W5-52R NE QUADRANT STRUCTURE P-25-0118 W5-52L MAINLINE (200 FT NORTH OF P-25-0118) R12-1 BLOTZ RD/BRENNAN RD. INT. (NORTH OF BRIDGE) R12-1	TYPE II (EACH) (EACH) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3 5699	MOBILIZATION EROSION CONTROL 628.1905 MOBILIZATIONS EROSION CONTROL OJECT 9-00-75 4 TOTALS = 4 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH) 2 TOTALS = 2	MARKERS ROW STATION LOCATION (EACH) 12+30.00 MAINLINE, 33.00° RT. 1 12+30.00 MAINLINE, 33.00° LT. 1 13+23.19 MAINLINE, 33.00° LT. 1 13+30.33 MAINLINE, 56.21° LT. 1 14+00.00 MAINLINE, 33.00° RT. 1 14+00.00 MAINLINE, 33.00° RT. 1 TOTALS = 6	SAWING ASPHALT	9 9
	CONSTRUCTION STAKING CONSTRUCTION STAKING *650.6500 *650.6500 *650.6500 *578UCTURE *1840	650.9910 SUPPLEMENTAL 650.9920 CONTROL SLOPES (01.5699-00-75) STAKES (LS) (LF) - 130 1 1 130	STATION LOCATION (LF)	
				SHEET

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	PROPERTY LINE	PL (4.8.21)
ACCESS RIGHTS ACRES AND OTHERS BARN CENTERLINE CERTIFIED SURVEY MAP CORNER CONVEYANCE OF RIGHTS	AR AC. ET.AL. B. C/L CSM COR.	RECORDED AS REFERENCE LINE RELEASE OF RIGHTS REMAINING RIGHT—OF—WAY SECTION SHED STATION	(100') R/L ROR REM. R/W SEC. S. STA.
DOCUMENT EASEMENT	CR DOC. EASE.	TEMPORARY LIMITED EASEMENT VOLUME	TLE V.
GARAGE HIGHWAY EASEMENT HOUSE	G. H.E. H.	CURVE DATA LONG CHORD LONG CHORD BEARING	LCH LCB
HOUSE TRAILER LAND CONTRACT MONUMENT PAGE	H.T. LC MON. P.	RADIUS DEGREE OF CURVE CENTRAL ANGLE OR DELTA LENGTH OF CURVE	R D DELTA
PERMANENT LIMITED EASEMENT	PLE	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND SURVEY MONUMENT (WITH POINT NUMBER)	o 1040	PROPOSED R/W LINE EXISTING H.E. LINE	
R/W MONUMENT	O ● (SET)	PROPERTY LINE	
R/W STANDARD	△ ▲ (SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS CORPORATE LIMITS	
SECTION CORNER MONUMENT	(NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	******
SECTION CORNER SYMBOL		NO ACCESS (BY ACQUISTION)	
2000 St. S		NO ACCESS (BY STATUTORY AUTHORITY)	0000000000000
FEE (HATCH VARIES)	1///	SECTION LINE	
TEMPORARY LIMITED	Estational	QUARTER LINE	
EASEMENT		SIXTEENTH LINE	
PERMANENT LIMITED EASEMENT		EXISTING CENTERLINE	
R/W BOUNDARY POINT	(RWB20)	PROPOSED REFERENCE LINE	
PARCEL NUMBER	8	PARALLEL OFFSET	<u> </u>
UTILITY PARCEL NUMBER	②	ENCROACHMENT	ŒÐ/TYPE
SIGN NUMBER (OFF PREMISE)	21-1)	LUCHWAY FACTURET	V//////
BUILDING		HIGHWAY EASEMENT	

CONVENTIONAL UTILITY SYMBOLS

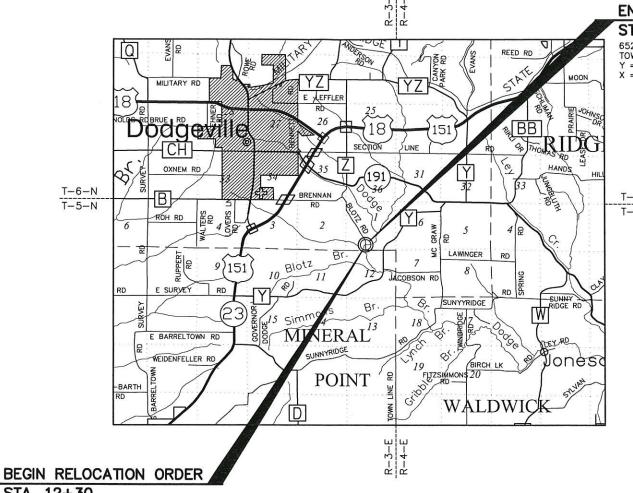
WATER	w	SANITARY SEWER	17	-SAN
GAS	—— G ——	STORM SEWER	-	- ss
TELEPHONE	—— T——		NON	
OVERHEAD	—— он ——		COMPENSABLE	COMPENSABLE
TRANSMISSION LINES		POWER POLE	4	4
ELECTRIC	——E——	TELEPHONE POLE	Ø	ø
CABLE TELEVISION	<u> </u>	TELEPHONE PEDESTA	L Ή	\times
FIBER OPTIC	F0	ELECTRIC TOWER		3

NOTES

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, IOWA 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.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD."



R/W PROJECT NUMBER SHEET TOTAL NUMBER SHEET 5699-00-05 FEDERAL PROJECT NUMBER 4.01

> PLAT OF RIGHT-OF-WAY REQUIRED FOR TOWN OF DODGEVILLE, BLOTZ RD (DODGE BRANCH BRIDGE B-25-0169)

TOWN ROAD

IOWA COUNTY

CONSTRUCTION PROJECT NUMBER 5699-00-75

END RELOCATION ORDER

STA. 14+00

 652.75^{\prime} NORTH AND 549.05 WEST OF THE S¼ CORNER OF SECTION 1, T.5N., R.3E., TOWN OF DODGEVILLE, IOWA COUNTY, WI



Engineers - Surveyors - Architects

560 SUNRISE DRIVE SPRING GREEN, WI 53588 PHONE : 608.588.7484 FAX: 608.588.9322

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FOR THE TOWN OF DODGEVILLE, IOWA COUNTY, WSCONSIN AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Chairman

STA. 12+30

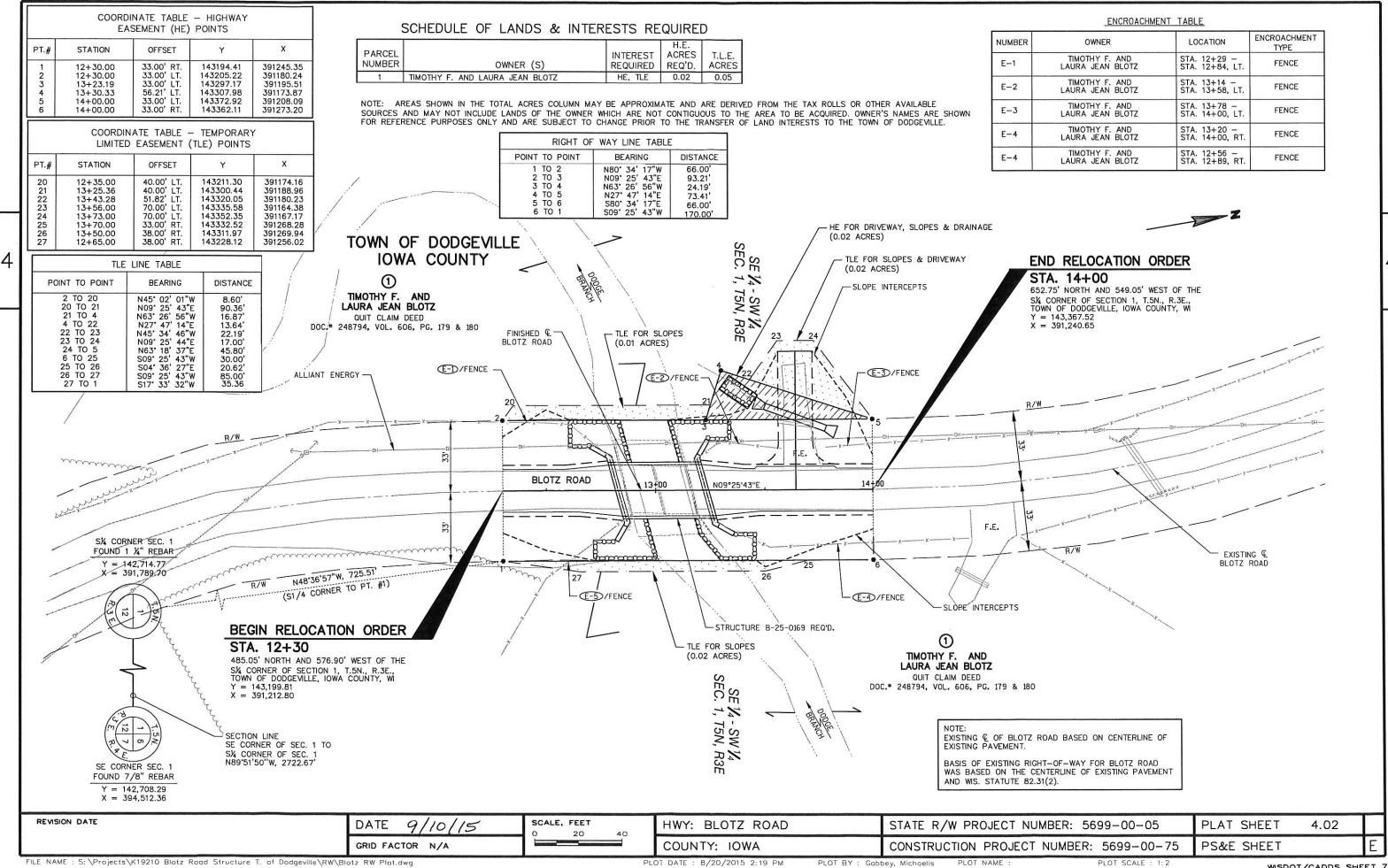
485.05' NORTH AND 576.90' WEST OF THE S1/4 CORNER OF SECTION 1, T.5N., R.3E., TOWN OF DODGEVILLE, IOWA COUNTY, WI Y = 143,199.81

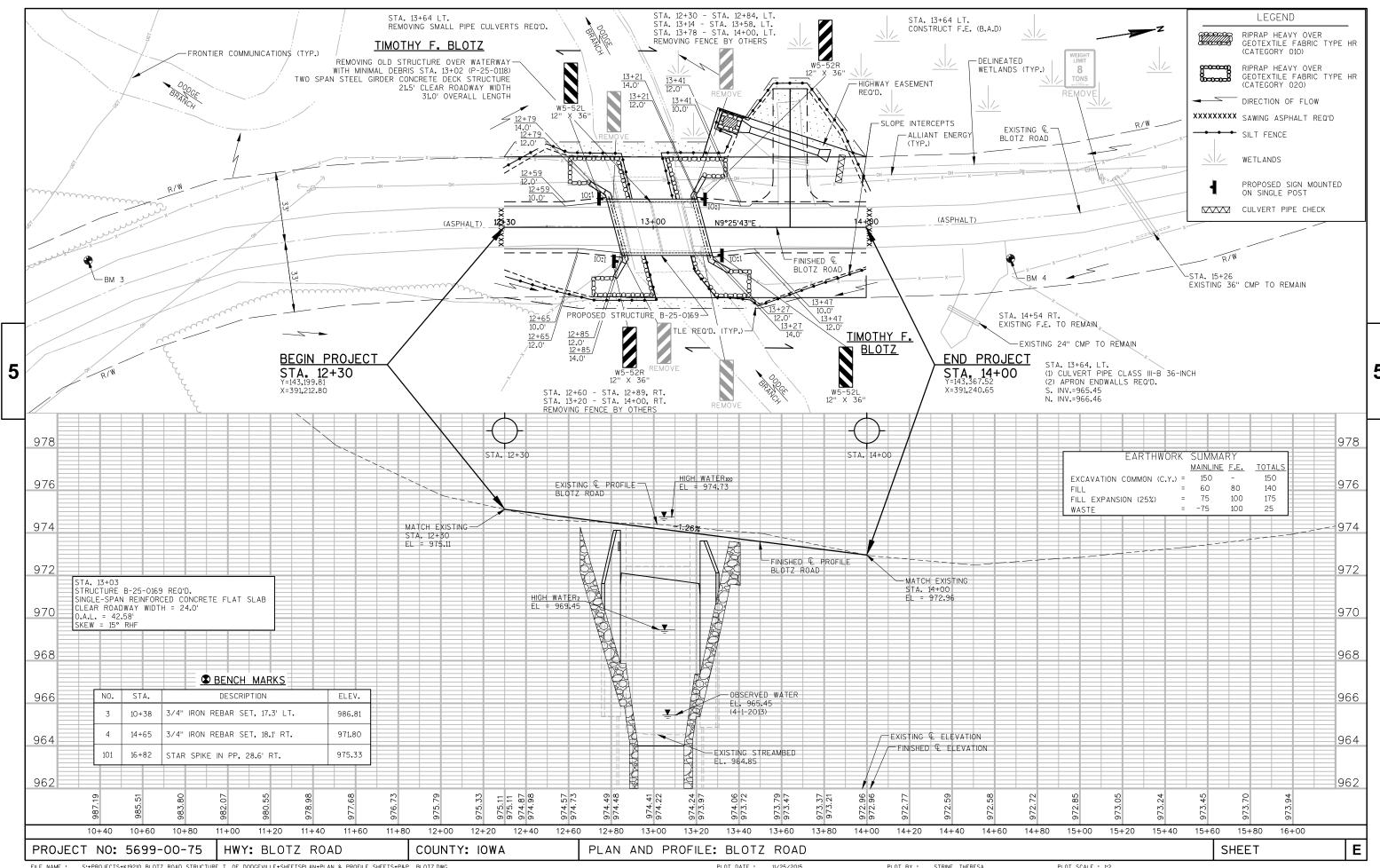
X = 391,212.80



LAYOUT TOTAL NET LENGTH OF CENTERLINE = 0.032 MI.

REVISION DATE





Standard Detail Drawing List

08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
12A03-10	NAME PLATE (STRUCTURES)
15A01-12A	MARKER POST FOR RIGHT-OF-WAY
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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D.D. 8 E 9

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METAL APRON ENDWALLS														
PIPE	MIN. 1	THICK.			APPROX.									
DIA.	(Incl		A	В	Н	L	Γį	L ₂	W	SLOPE	BODY			
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2				
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.			
15	.064	.060	7	8	6	26	14	213/4	30	2½to 1	1Pc.			
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.			
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.			
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.			
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.			
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.			
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.			
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.			
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.			
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.			
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.			
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.			
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.			
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.			
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.			
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.			

	RE	NFORC	ED C	ONCRET	E APRO	N E	NDWAL	.LS						
PIPE		DIMENSIONS (Inches)												
DIA.	T	A	В	С	D	Ε	G	APPROX. SLOPE						
12	2	4	24	48 1/8	721/8	24	2	3 to 1						
15	21/4	6	27	46	73	30	21/4	3 to 1						
18	21/2	9	27	46	73	36	21/2	3 to 1						
21	23/4	9	36	37½ 30	731/2	42	23/4	3 to 1						
24	3	91/2	91/2 431/2		731/2	48	3	3 to 1						
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1						
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1						
36	4	15	63	34¾	97¾	72	4	3 to 1						
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1						
48	5	24	72	26	98	84	5	3 to 1						
54	51/2		65	**************************************	8 ¹ / ₄ - 100	90	51/2	2% to 1						
60	6	* ** 30-35	60	39	99	96	5	2 to 1						
66	61/2	* ** 24-30	* * * 72-78	* * * 21-27	99	102	51/2	2 to 1						
72	7	* ** 24-36	78	21	99	108	6	2 to 1						
78	71/2			21	99	114	61/2	2 to 1						
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1						
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1						

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER





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

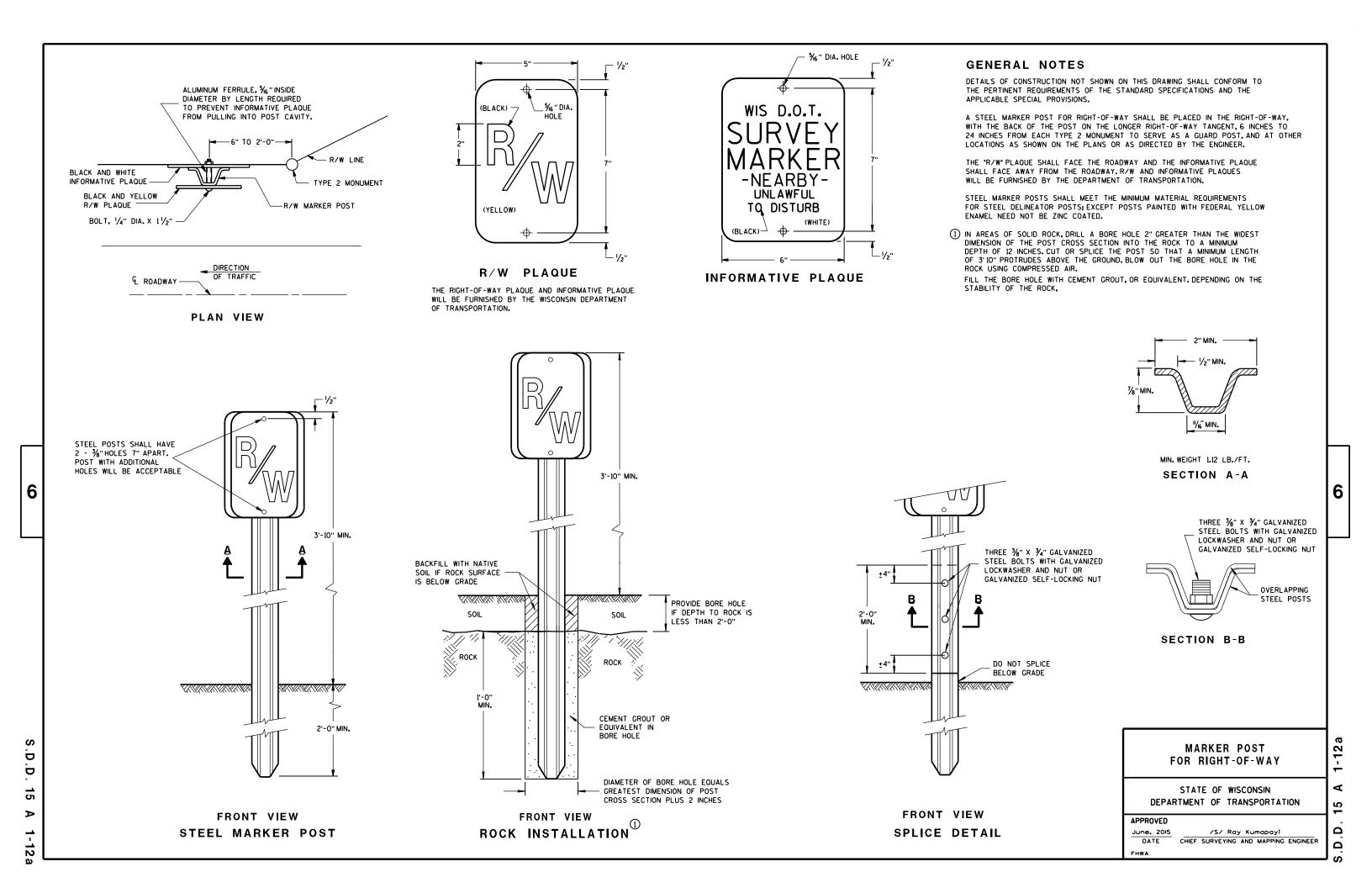
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3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10





ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

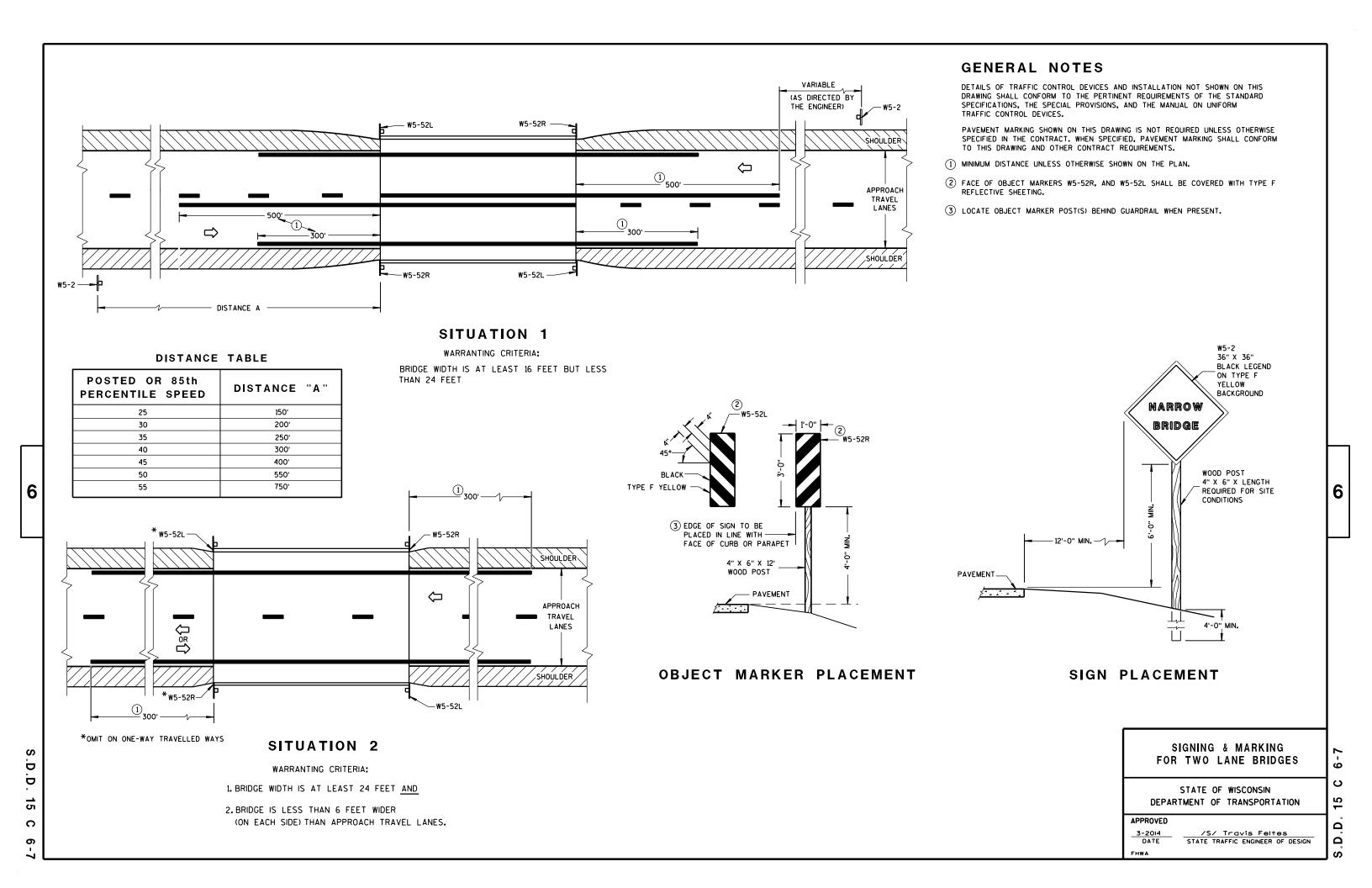
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

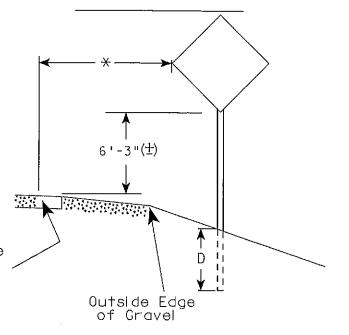
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER



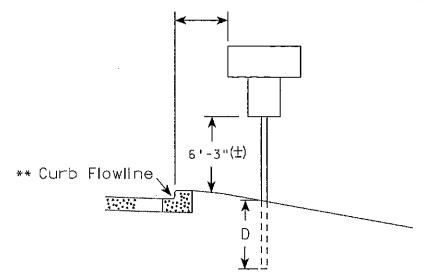
URBAN AREA

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

RURAL AREA (See Note 2)



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



5 ' - 3 "(士) THE WASHINGTON White Edgeline D^{-1} Location Outside Edge of Gravel

 \downarrow_{XX} 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" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting helaht for J assemblies (A2-1S) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
- 6. Offset distance shall be consistent with existing slans or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), MIle Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm).

POST EMBEDMENT DEPTH

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

For State Traffic Engineer

DATE 11/12/14

PLATE NO. __A4-3.19

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplote\A43.DGN

HWY:

COUNTY:

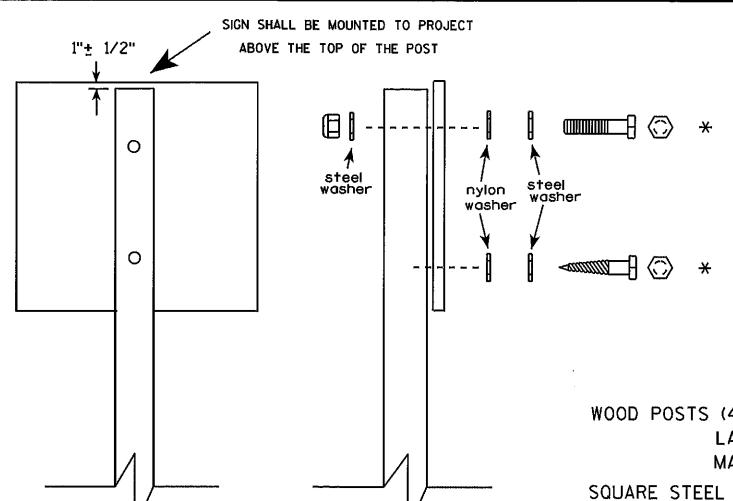
PLOT BY : mscs.ja

PLOT NAME : PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:

PLOT DATE: 12-NOV-2014 14:03



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.

WOOD POSTS (4" \times 4" or 4" \times 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/6" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts

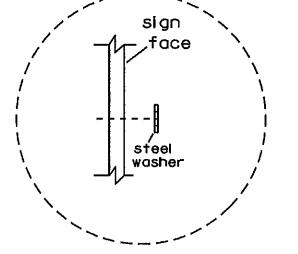
RIVETS - %32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL

O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face 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

For State Traffic Engineer

DATE 3/23/10

O PLATE NO. A4-8.7

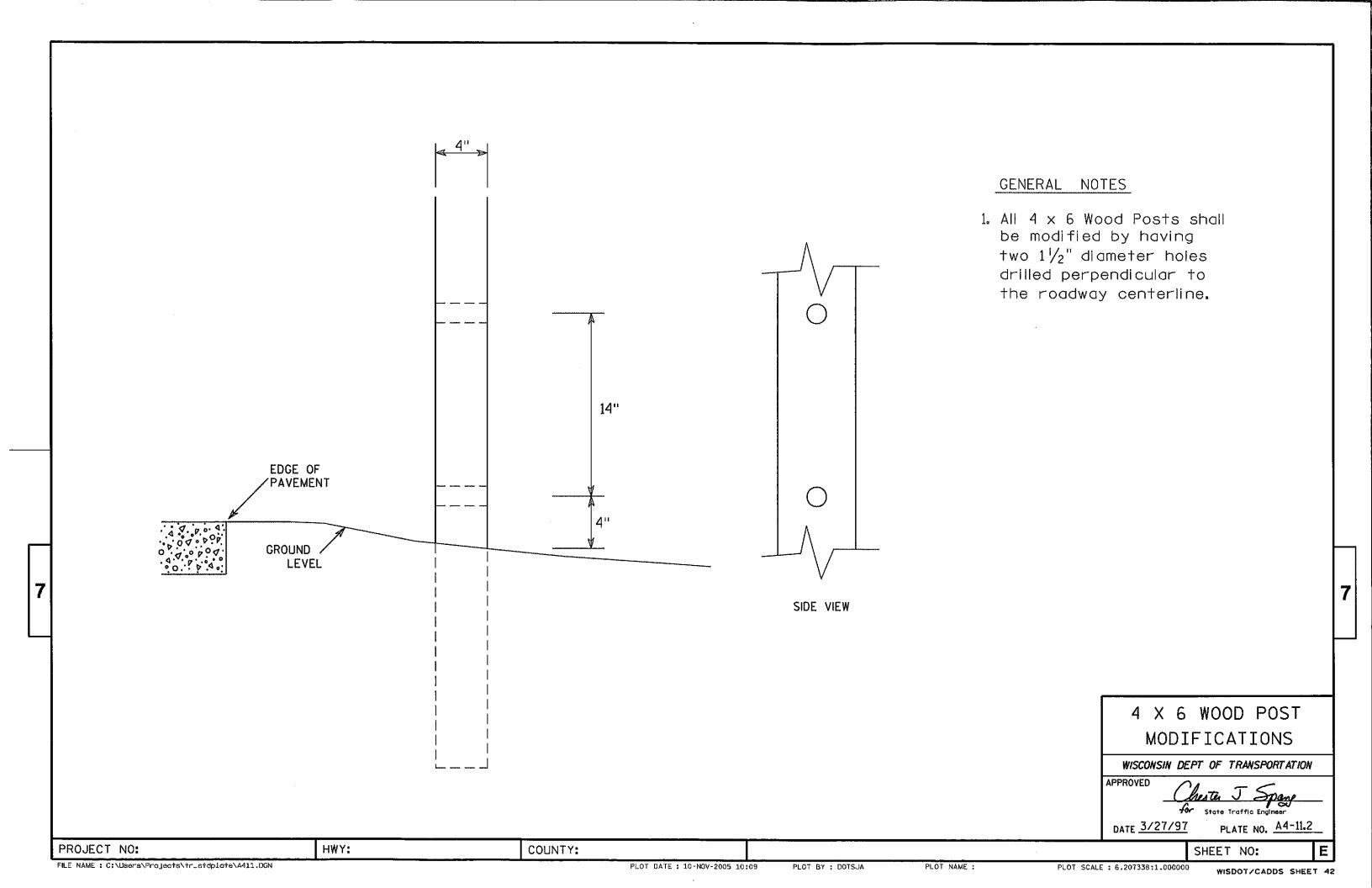
SHEET NO:

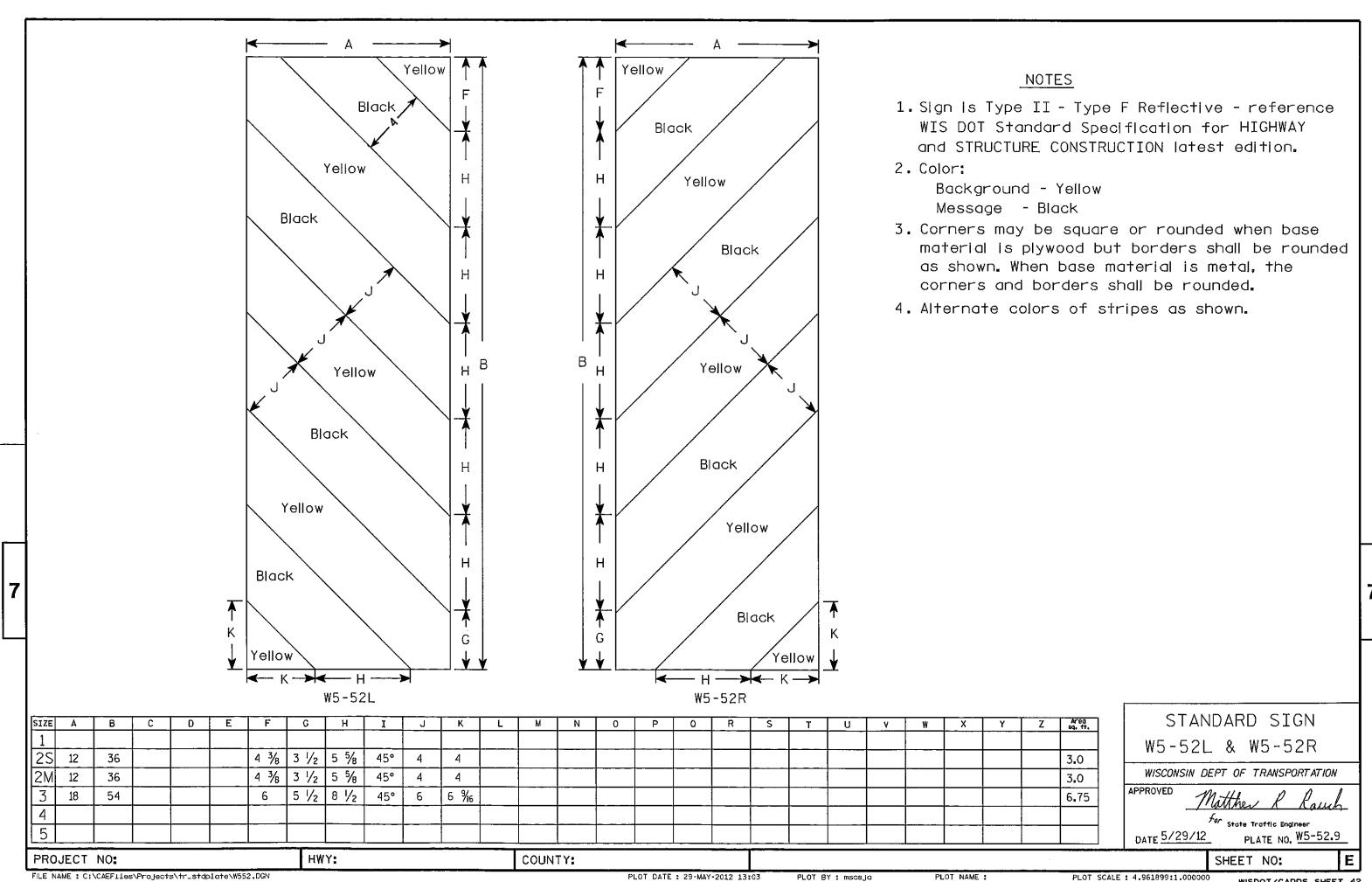
PROJECT NO:

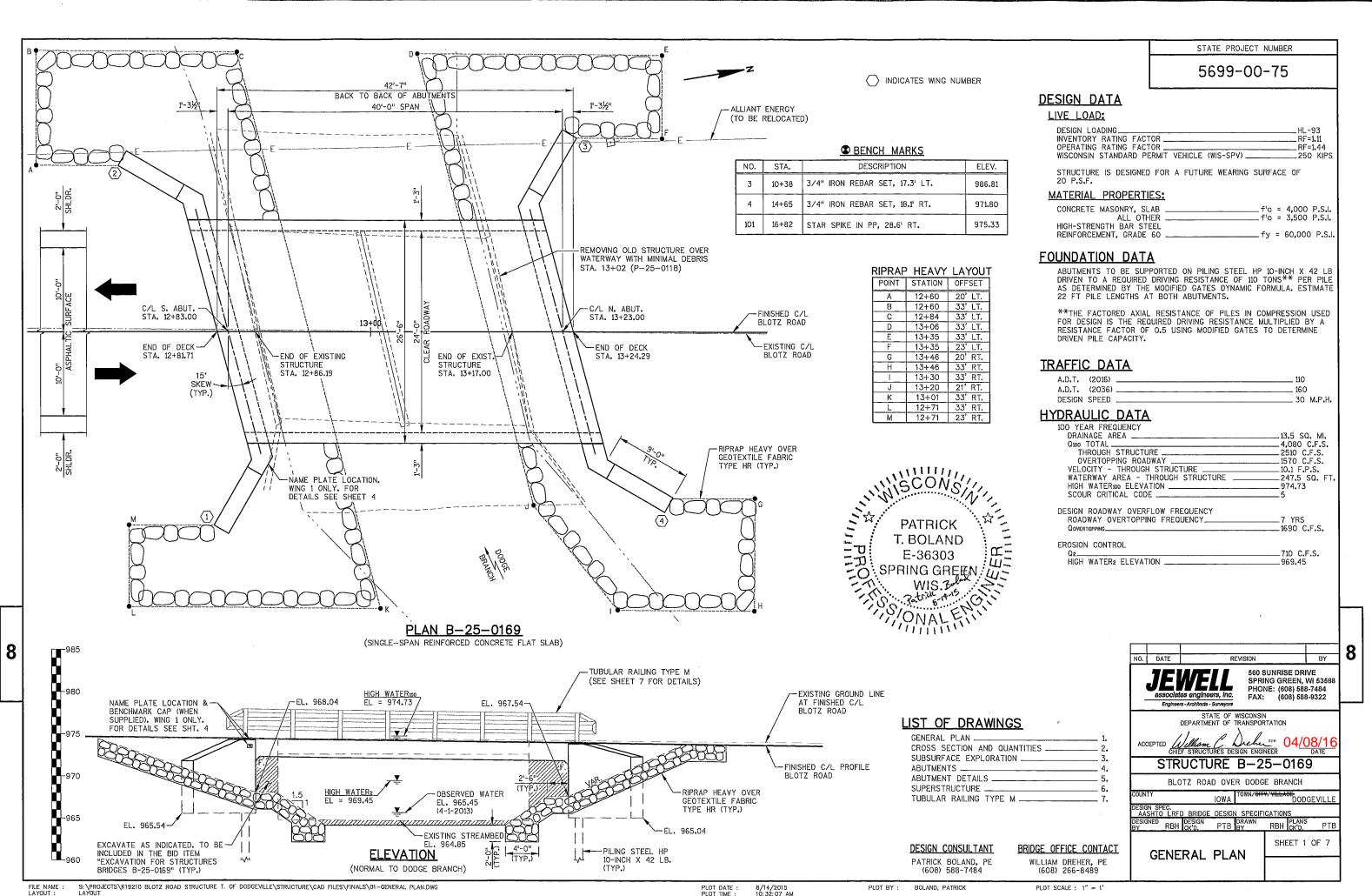
FILE NAME : C:\Users\PROJECTS\tr_stdplote\A48.DGN

PLOT DATE : 23-MAR-2010 10:15

PLOT BY : ditjph







5699-00-75

GENERAL NOTES

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

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD 88).

JOINT FILLER SHALL CONFORM TO A.A.S.H.T.O. DESIGNATION MI53, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M213.

THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS, OR AS DIRECTED BY THE ENGINEER IN

AT THE BACK FACE OF ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

THE QUANTITY FOR BACKFILL STRUCTURE, BID ITEM 210.0100, IS CALCULATED BASED ON THE APPLICABLE FIGURES 12.6-1 AND 12.6-2 IN THE WISCONSIN DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL

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

APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF THE DECK, THE SIDES OF THE DECK AND EXTERIOR 12" OF THE UNDERSIDE OF THE DECK (CONCRETE MATERIAL ONLY).

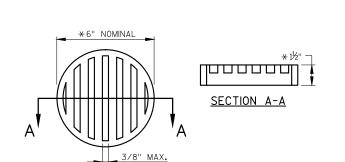
THE EXISTING STRUCTURE (P-25-0118) IS A TWO SPAN STEEL GIRDER, CONCRETE DECK STRUCTURE SUPPORTED ON CONCRETE ABUTMENTS WITH A CONCRETE FLOOR. THE STRUCTURE HAS A 21.5' CLEAR ROADWAY WIDTH AND A 31.0' OVERALL LENGTH AND SHALL BE REMOVED.

ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

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

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



RODENT SCREEN

NOTES:

RAILING TUBULAR

FOR DETAIL SEE

34" V-GROOVE (TYP.) TERMINATE 2'-0" FROM

FACE OF ABUTMENTS

SHEET 7.

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

ORIENT SCREEN SO SLOTS ARE VERTICAL.

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

THE RODENT SCREEN 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 SCREEN TO THE EXPOSED ENDS OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1—INCH STAINLESS STEEL SHEET METAL SCREWS.

PIPE LINDERDRAIN WRAPPED 6-INCH ABUTMENT TO SUITABLE DRAINAGE ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL THIS SHEET.

OUT TO OUT OF DECK

PROPOSED CROSS-SECTION THROUGH ROADWAY

(LOOKING NORTH)

C/L BLOTZ ROAD -

FACE OF RAIL

AT ABUTMENT

RIPRAP HEAVY OVER-GEOTEXTILE FABRIC

TYPE HR REQ'D.

12'-0"

POINT REFERRED TO ON PROFILE GRADE LINE

FACE OF RAIL

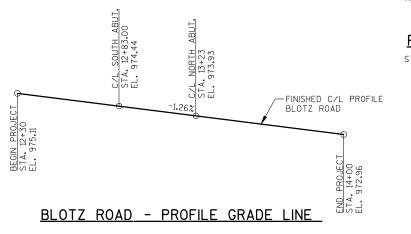
IN SPAN

5" (TYP.)

PIPE UNDERDRAIN DETAIL

TOTAL ESTIMATED QUANTITIES

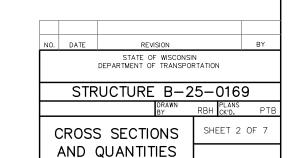
	<u> </u>					
ITEM NUMBER	ITEM DESCRIPTION	UNIT	S. ABUT.	SUPER	N. ABUT.	TOTALS
203 . 0600 . S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 13+02	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-25-0169	LS				1
210.0100	BACKFILL STRUCTURE	CY	110		110	220
502,0100	CONCRETE MASONRY BRIDGES	CY	30.6	80.8	30.6	142
502.3200	PROTECTIVE SURFACE TREATMENT	SY		150		150
505,0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,125		2,125	4,250
505,0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,380	13,940	1380	16,700
513.4061	RAILING TUBULAR TYPE M B-25-0169	LF		88		88
516,0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6		6	12
550,1100	PILING STEEL HP 10-INCH X 42 LB	LF	155		155	310
606.0300	RIPRAP HEAVY	CY	100		90	190
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75		75	150
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	190		170	360
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/4"



-PLATE %"×5"×5" DOUBLER-PLATE AT FLANGE GRIND ELLISH WELD UNDER DOUBLER PLATE -WELD ∕√55° TYP. HP WELD DETAIL HP10×42 FLANGE SHOWN, WEB SIMILAR

PILE SPLICE DETAIL

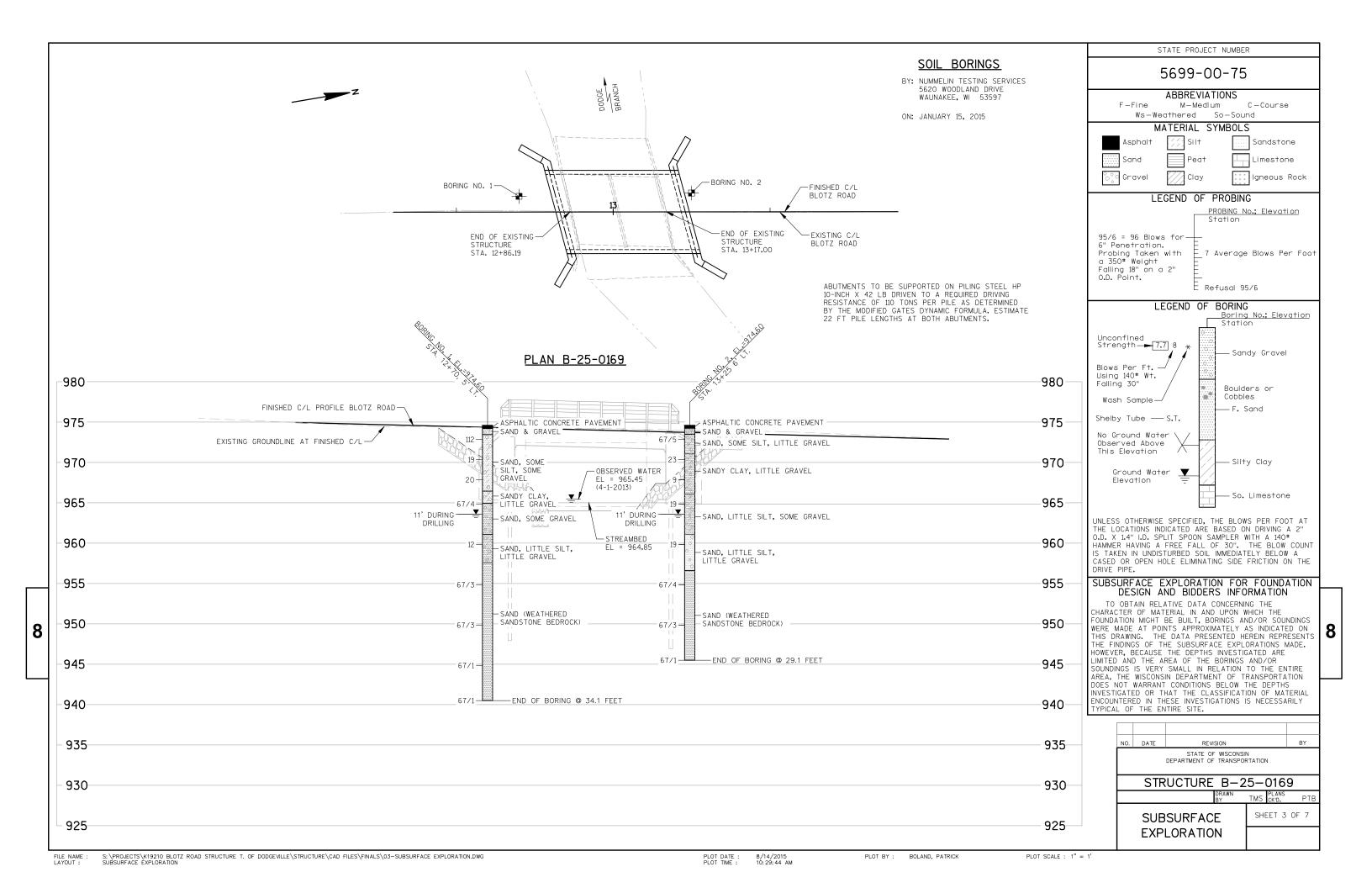
STEEL "HP" PILE MATERIAL SHALL BE ASTM A 572 GRADE 50.

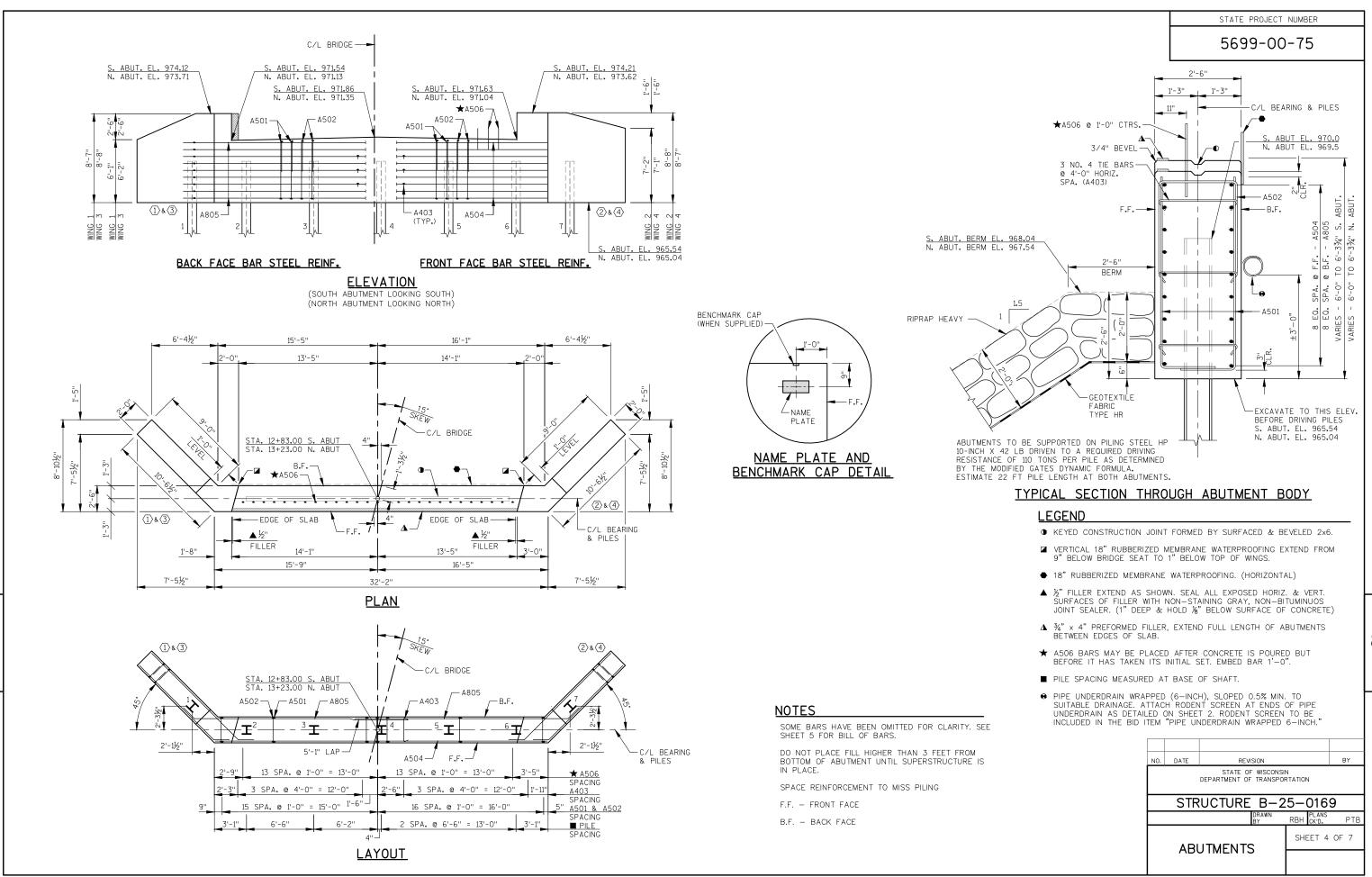


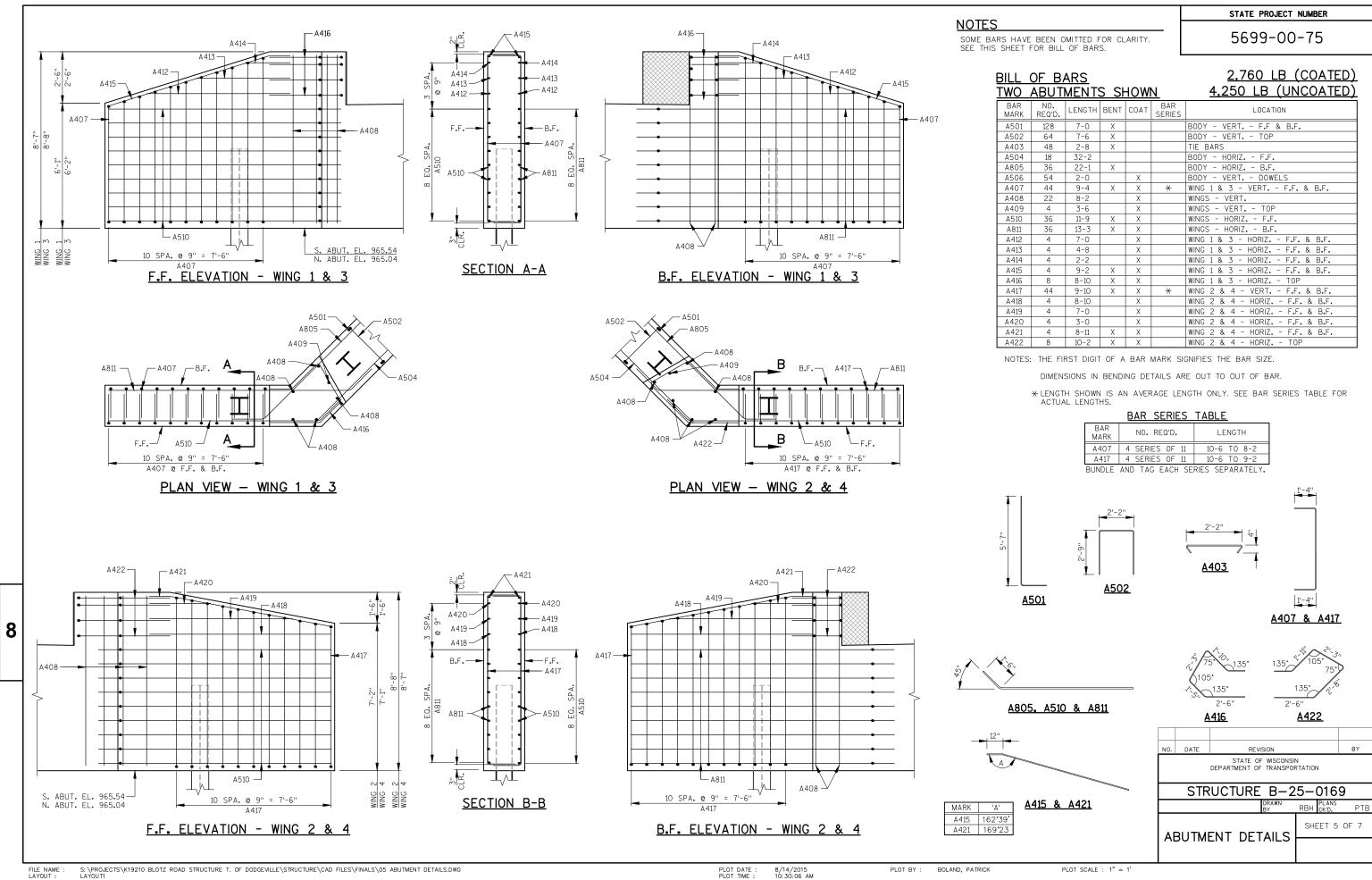
S:\PROJECTS\K19210 BLOTZ ROAD STRUCTURE T. OF DODGEVILLE\STRUCTURE\CAD FILES\FINALS\02-CROSS SECTIONS AND QUANTITIES.DWG

PLOT BY: BOLAND, PATRICK

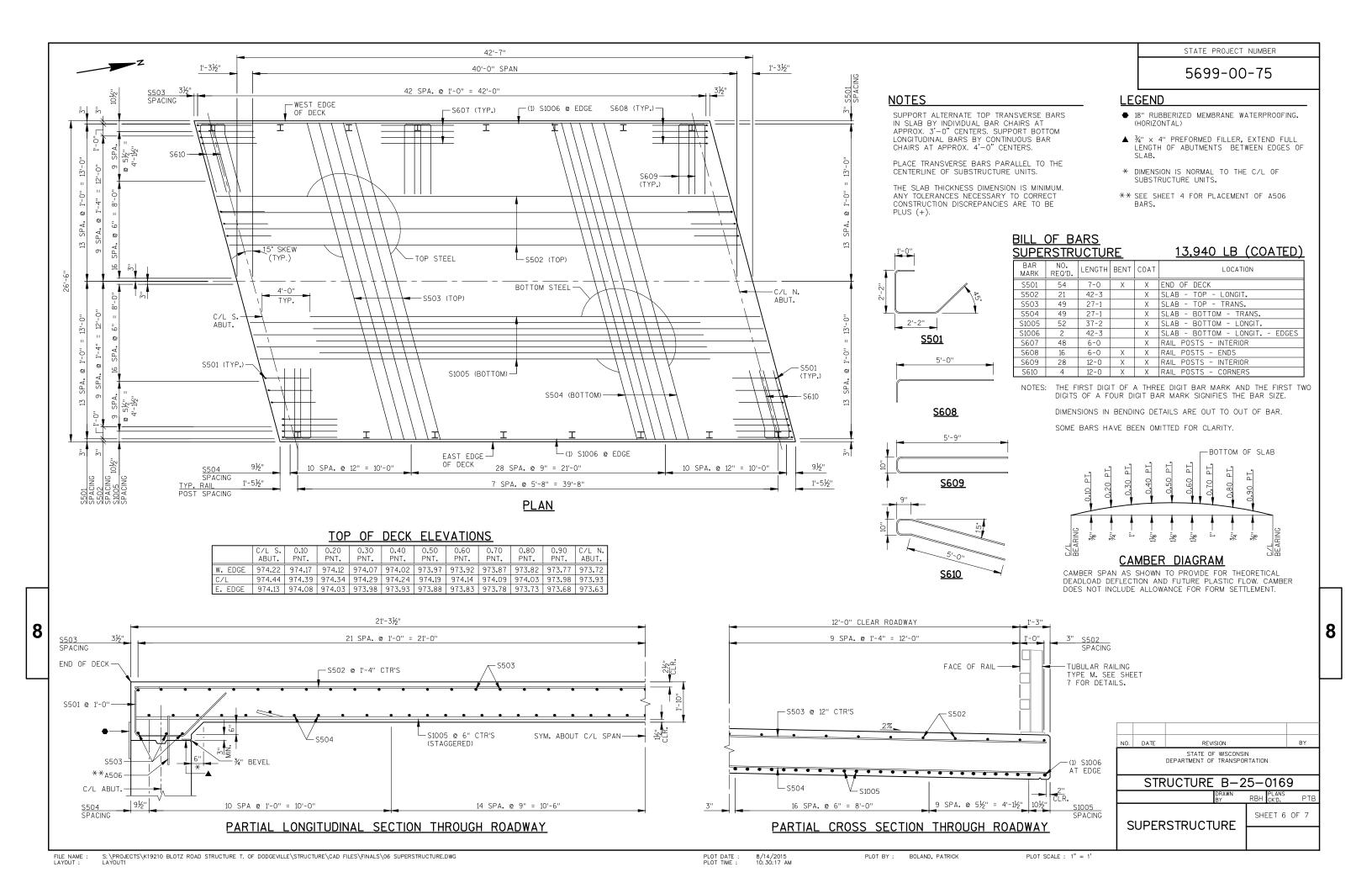
PLOT SCALE : 1" = 1'







8



STATE PROJECT NUMBER

5699-00-75

① W6x25 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

② PLATE 1¼"×11-8" WITH 15%"×15%" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.

5 TSS 5x4x1/4 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.

VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.

1034" LONG AT ALL OTHER LOCATIONS.

LEGEND

(5A) TSS 5x5x1/4 STRUCTURAL TUBING, ATTACH TO NO. 1 WITH NO. 6.

(6) %" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, %" $\times1\%$ " $\times1\%$ " WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION).

⑦ ½" THK. BACK-UP PLATE WITH 2 -%"x½" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.

(8) 1" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR %" DIA. A325 BOLTS WITH HEX NUTS AND WASHERS, 6 HOLES IN TUBES AND PLATE NO. 7.

9 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".

(10) %"×3%"×2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.

(0A) %"x2%"x2'-4" PLATE USED IN NO. 5, %"x3%"x2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.

(12) %" DIA. BY 11/2" LONG THREADED SHOP WELDED STUDS (2 REQ'D).

 $\ensuremath{\mathfrak{AS}}$ %"x8"x1"-6" plate, bolt to rail as shown in detail, reo'd, at thrie beam guard rail attachments only. Place sym. about tubes no. 5a.

78" DIA, \times 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D,).

(5) 1" DIA. HOLES IN TUBES NO. 5A FOR 1/8" A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4 REO'D.). 4 HOLES IN TUBES.

GENERAL NOTES

1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-25-0169" 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. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.

5. ENDS OF TUBE SECTIONS SHALL BE SAWED, GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.

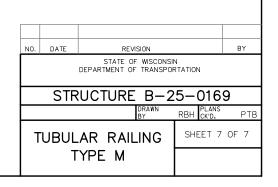
6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.

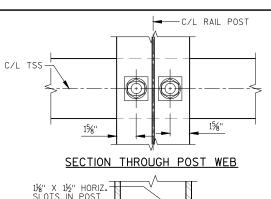
7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

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).

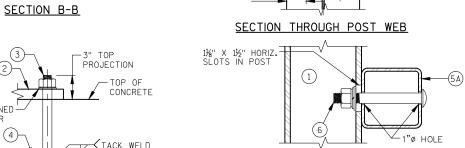




SECTION THROUGH RAIL

SECTION C-C

SECTION D-D



NOTE: CONNECTIONS AT LOWER RAILS SHOWN. CONNECTIONS AT TOP RAIL SIMILAR.

ANCHOR BOLTS TYPICAL RAIL TO POST CONNECTIONS

٦D

SHOP RAIL SPLICE DETAIL

10 (10 A)-

PLACE BELOW TOP

MAT OF DECK

S609 OR S610 - TIE TO TOP MAT OF DECK REINFORCEMENT

-S607 AT INTERIOR POSTS S608 AT END POSTS

LC/L RAIL

S607 AT INTERIOR POSTS S608 AT END POSTS

SECTION THROUGH RAILING ON DECK

₩

₩-

113/4"

2¾"

ANCHOR PLATE

AT RAIL TO DECK CONNECTION

SEE 6>5/8"

₩-

#

5½"ø HOLES

SECTION A-A

FIELD CLIP AS REQ'D.

13/6"ø HOLES

FOR 11/8" Ø ANCHOR

REINFORCEMENT

(LOCATION MUST BE

3½" 5¼" | 5¼" 3½"

PROVIDE 1/8" O DRAIN HOLES IN LOW

END OF ALL RAILS CLEAR OF SPLICE TUBE FIELD ERECTION JOINT DETAIL

SHOWN ON SHOP DRAWINGS)

2½" MIN. AT EXP. JTS. ½" AT FIELD JOINTS

> MINIMUM OFFSET (TYP.) C/L POST-C/L PLATE 0 ⊚**|**-**-(2)** (7)

(10 A)-

HARDENED -WASHER

0 0

0 0

(4)-

TOP VIEW AT END POST (THRIE BEAM RAIL ATTACHMENT) (5A)

─1"ø HOLES TYP.

ANCHOR PLATE

AT BEAM GUARD ATTACHMEN

DETAIL AT END POST

4'-2" 0 0 ∠1"Ø HOLES FOR %"Ø HEX BOLTS \angle 1"ø HOLES TYP.

BACK-UP PLATE DETAIL

'-5½" 5'-8" POST SPA. SEE SHEET END OF DECK

PART ELEVATION OF RAILING

EDGE OF PLATE (7)

AND FLANGE OF (1)

<u>POST SHIM</u>

DETAIL

1'-3"

2%"

THIS FACE TO

BE VERTICAL

EARTHWORK-MAINLINE

	AREA (SF)						NTAL VOL (CY)		CUMMULATIVE VOLUME (CY)												
		SALVAGED/					SALVAGED/ UNUSABLE			REDUCED MARSH IN FILL	FILL	SELECT CRUSHED		CUT		·	REDUCED MARSH IN FIL		SELECT CRUSHED		MASS
		UNUSABLE				CUT	PAV'T MATERIAL	FILL		(0.6)		MATERIAL		1.00		MARSH	(0.6)	(25%)	MATERIAL		ORDINATE
STATION	CUT	PAV'T MATERIAL	FILL	MAR\$HEX	EB\$	NOTE 1	NOTE 2	NOTE 3	MAR\$HEX	NOTE 4	(25%)	(1.5)	EB\$	NOTE 1	FILL	EX	NOTE 4	NOTE 5	(1.5)	EB\$	NOTE 6
12+30	32	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0
12+50	21	0	29	0	0	21	0	11	0	Ü	15	0	0	21	11	0	0	15	0	0	6
12+82	21	0	43	0	0	27	0	44	0	0	54	0	0	48	55	0	O	69	0	0	-21
12+82	0	0	0	0	0	0	0	0	0	٥	0	٥	0	48	55	0	0	69	0	0	-21
13+24	0	0	0	0	0	0	0	0	0	0	0	0	0	48	55	0	0	69	0	0	-21
13+24	37	0	3	0	0	0	0	0	0	٥	0	٥	0	48	55	0	0	69	0	0	-21
13+50	37	0	3	0	0	37	0	3	0	Ü	3	0	0	85	58	0	0	72	0	0	13
14+00	32	0	0	0	0	65	0	2	0	0	3	0	0	150	60	0	Ō	75	0	0	75
					COLUMN SUBTOTALS	150	0	60	0	0	75	0	0								
					MAINLINE	150	o	60	О	0	75	0	0	150	60	0	0	75	o	0	75
					FE	-	0	80	0	0	100	0	0	150	140	0	0	175	0	0	-25

NOTES:

1 - CUT

2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL

3 - FILL

4 - REDUCED MARSH IN FILL

5 - FILL (25%)

6 - MASS ORDINATE

CUT INCLUDES SALVAGED/UNUSABLE MATERIAL

THIS DOES NOT SHOW UP IN CROSS SECTIONS

DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

REDUCED MARSH THAT CAN BE USED IN FILL

FILL 25%: (FILL -REDUCED MARSH IN FILL)*1.25

(CUT - FILL (25%))

9

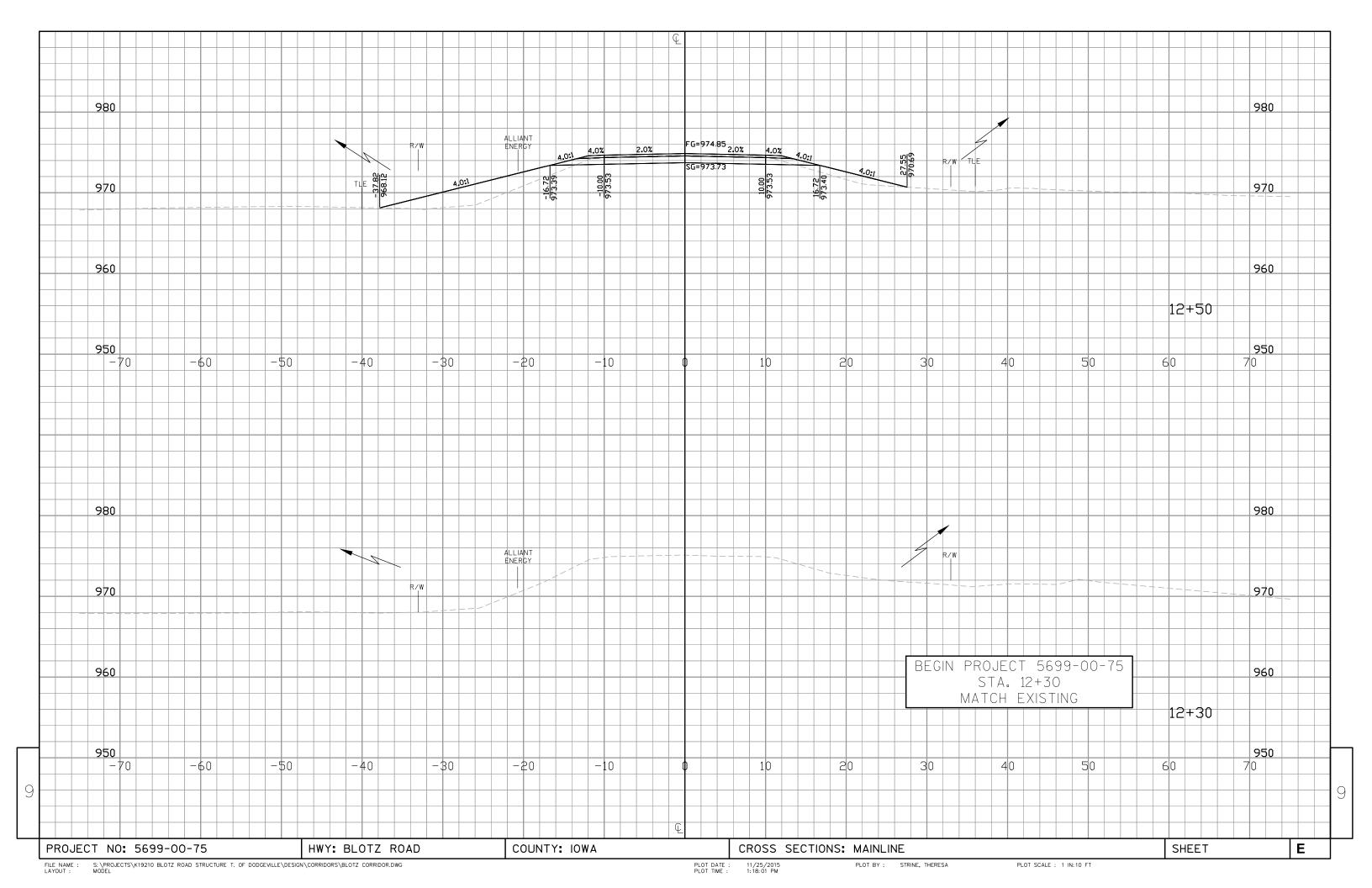
PROJECT NO: 5699-00-75 HWY: BLOTZ ROAD COUNTY: IOWA EARTHWORK

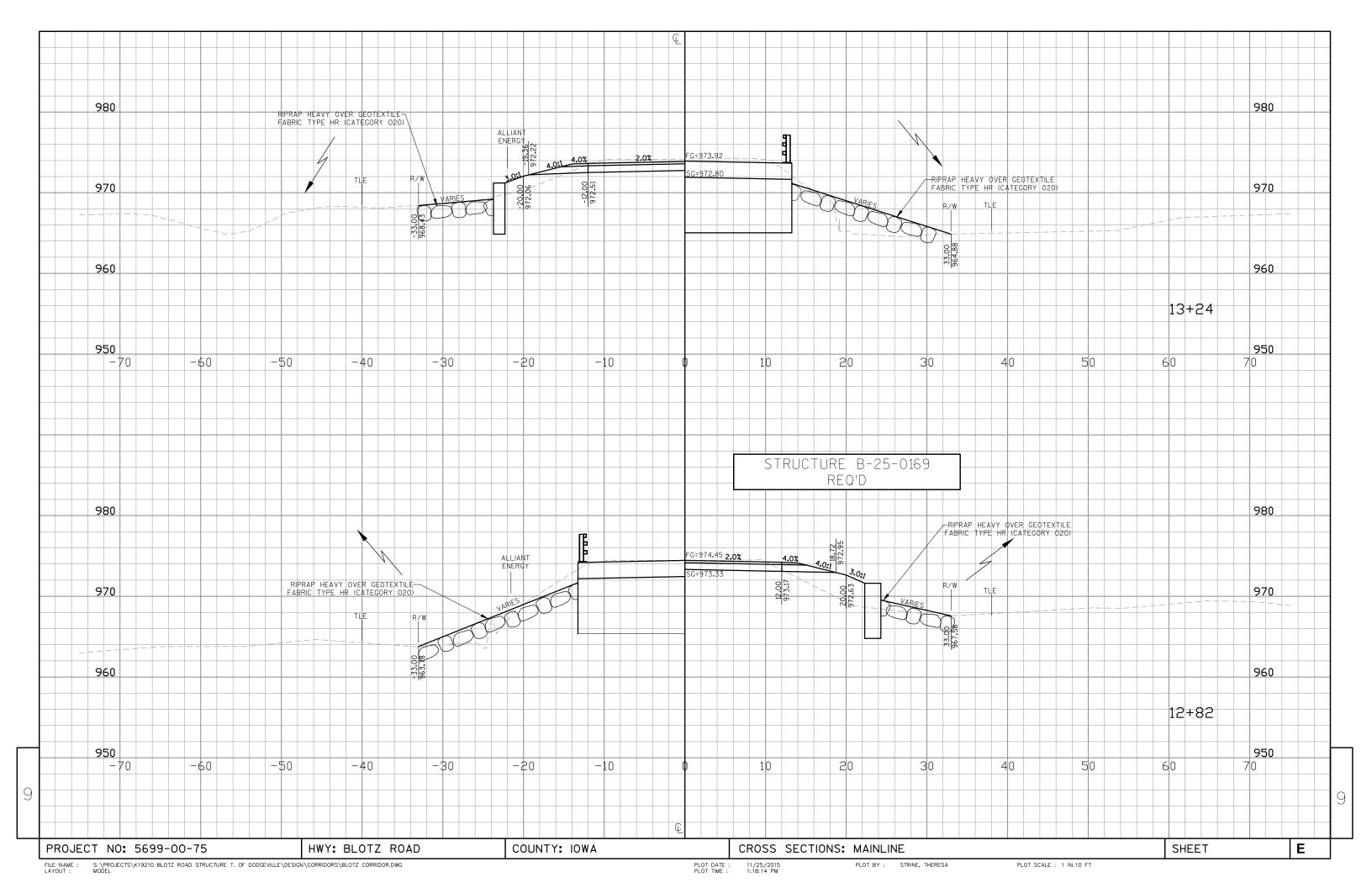
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LAYOUT: ITABOOLDWG

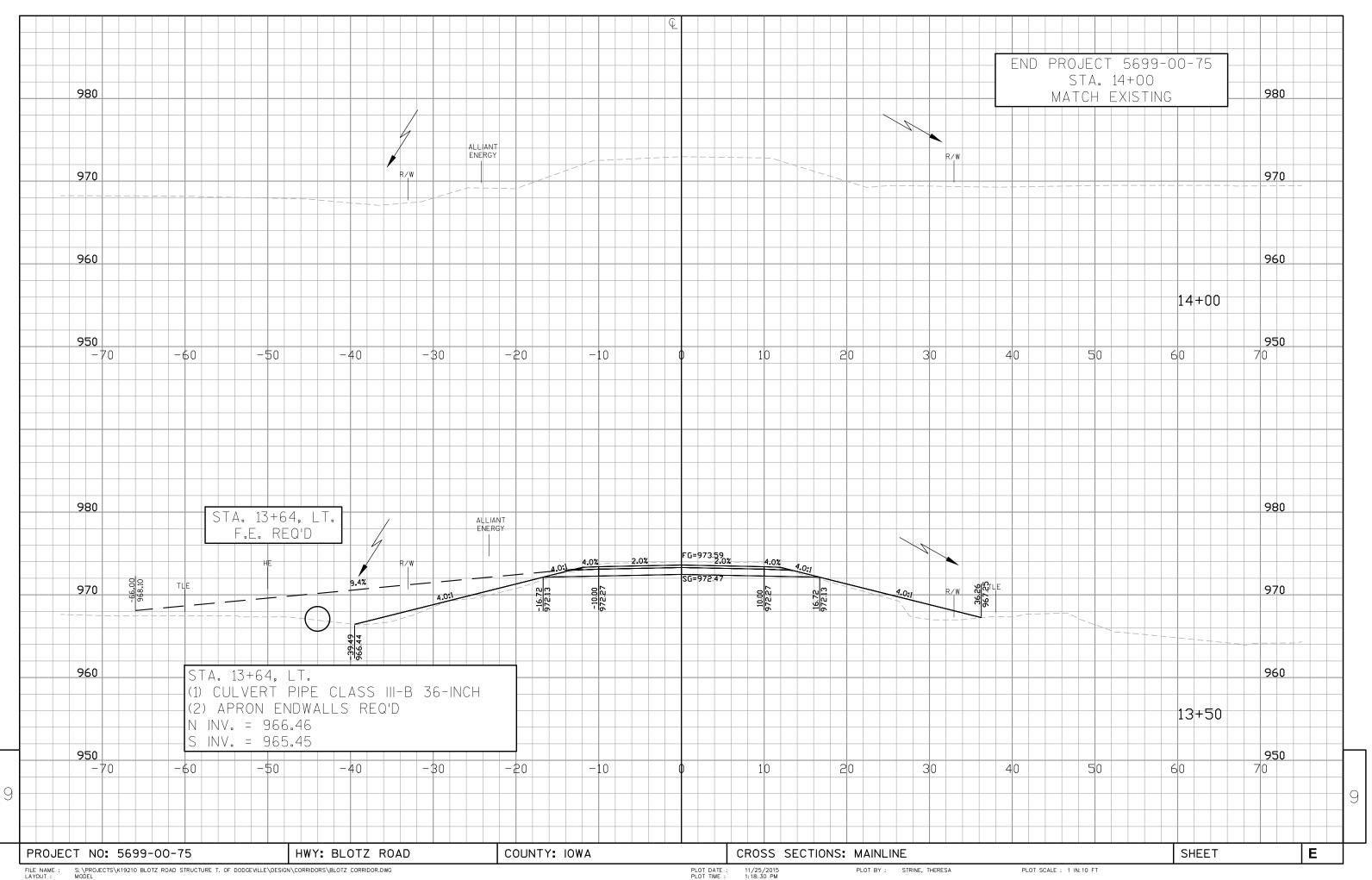
PLOT TIME: 2:08:04 PM

9

PLOT SCALE : 1" = 1'







Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov