Section No.

Section No.

TOTAL SHEETS = 40

DESIGN DESIGNATION

2021 = 520

= 520

= 4.6%

= 55 MPH

= 81,000

11111111

PROFILE GRADE LINE

ORIGINAL GROUND

GRADE ELEVATION

SPECIAL DITCH

UTILITIES

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

Д

Ġ

Ø

STORM SEWER

TELEPHONE

WATER

ELECTRIC

2041

CONVENTIONAL SYMBOLS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

AADT

A.A.D.T.

DESIGN SPEED

CORPORATE LIMITS

PROPERTY LINE

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

(Box or Pipe)

MARSH AREA

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

D.H.V. D.D.

ESALS

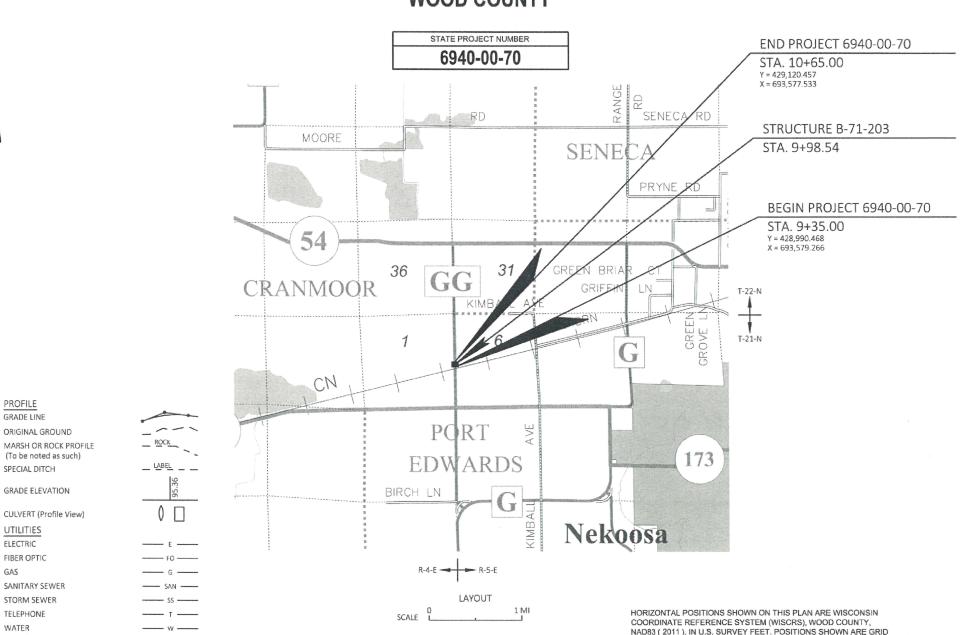
FEBRUARY 2021 ORDER OF SHEETS STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Estimate of Quantities Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Plan and Profile Standard Detail Drawings Section No. Sign Plates Section No. Structure Plans

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 6940-00-70

STH 173 - STH 54

CRANBERRY CREEK BRIDGE B-71-203

CTH GG **WOOD COUNTY**



ACCEPTED FOR COUNTY OF WOOD ORIGINAL PLANS PRÉPARED BY ANGELA B. KERRIGAN STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION MEAD & HUNT MEAD & HUNT Designer JASON SCHAEFFER JASON SCHAEFFER

TOTAL NET LENGTH OF CENTERLINE = 0.025 MI

PLOT BY :

COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES

ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (1991). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

GENERAL NOTES

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

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

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD. SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO BRIDGE REMOVAL.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOIL, FERTILIZED, SEEDED AND EROSION MAT CLASS II, TYPE C.

BEARINGS SHOWN ON THE PLANS ARE GROUND BEARINGS TO THE NEAREST SECOND.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING PAVEMENTS AT REMOVAL LIMITS.

ASPHALTIC SURFACE SHALL BE PLACED BY OTHERS.

FILL EXPANSION OF EARTHWORK AT 25%.

KEEP ALL EQUIPMENT AND MATERIALS OUT OF ADJACENT WETLANDS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIALS WILL NOT BE PERMITTED IN THE WETLANDS.

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

VPT VERTICAL POINT OF TANGENCY

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
			A		В			С			D	
	SLOPE	ERANGE	(PERCENT)	SL	OPE RANG	GE (PERCENT)	SLO	OPE RANG	GE (PERCENT)	SLOF	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	.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						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595				•		
GRAVEL ROADS, SHO	ULDERS		·			.4060						

TOTAL PROJECT AREA = 0.20 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.15 ACRES

ORDER OF SECTION 2 SHEETS

TYPICAL SECTIONS TRAFFIC CONTROL

STANDARD ABBREVIATIONS

ADT AVERAGE DAILY TRAFFIC M/L MAINLINE AGG AGGREGATE NO NUMBER ASPH ASPHALTIC PF PRIVATE ENTRANCE BM BENCH MARK PΙ POINT OF INTERSECTION BOC BACK OF CURB PL PROPERTY LINE C&G CURB AND GUTTER PP POWER POLE COMMERCIAL ENTRANCE QTY QUANTITY CF CL CENTERLINE RHF RIGHT-HAND FORWARD COR CORNER RT RIGHT CWT HUNDREDWEIGHT R/L REFERENCE LINE CY **CUBIC YARD** R/W RIGHT-OF-WAY DHV DESIGN HOURLY VOLUME SF SOUARE FOOT DWY DRIVEWAY SHLDR SHOULDER **ELEVATION** STORM SEWER EL FXISTING STATION FX STA EXC EXCAVATION SY SQUARE YARD FT FOOT TRUCKS (PERCENT OF) FTG FOOTING TEL TELEPHONE HYD HYDRANT TLE TEMPORARY LIMITED EASEMENT INV INVERT TYP TYPICAL UNDERGROUND CABLE LB POUND UG LF LINEAR FOOT VAR VARIABLE LHF LEFT-HAND FORWARD VC VERTICAL CURVE VPC VERTICAL POINT OF CURVE LS LUMP SUM LT LEFT VPI VERTICAL POINT OF INTERSECTION

CONTACTS

WOOD COUNTY HIGHWAY DEPT.

MR. ROLAND HAWK **COUNTY COMMISSIONER** 555 17TH AVENUE NORTH WISCONSIN RAPIDS, WI 54495-1966

PHONE: (715) 421-8875 EMAIL: RHAWK@CO.WOOD.WI.US WOOD COUNTY HIGHWAY DEPT.

MR. JOEL ORTMAN **COUNTY ENGINEER** 555 17TH AVENUE NORTH WISCONSIN RAPIDS, WI 54495-1966

PHONE: (715) 424-7401 EMAIL: JORTMAN@CO.WOOD.WI.US DNR CONTACT

MR. BRAD BETTHAUSER DNR WISCONSIN RAPIDS SERVICE CENTER 473 GRIFFITH AVENUE WISCONSIN RAPIDS, WI 54494 PHONE: (715) 231-9064

EMAIL: BRADLEY.BETTHAUSER@WISCONSIN.GOV

CONSULTANT CONTACT

MEAD & HUNT, INC. 1702 LAWRENCE DRIVE DE PERE, WI 54115 ATTN: MS. ANGELA KERRIGAN, P.E. PHONE: (920) 496-0500

EMAIL: ANGIE.KERRIGAN@MEADHUNT.COM

UTILITIES

ALLIANT ENERGY

MR. MICHAEL PEETERS 2710 JEFFERSON STREET WISCONSIN RAPIDS, WI 54495 PHONE: (715) 459-1581 EMAIL: MICHAELPEETERS@ALLIANTENERGY.COM

TDS TELECOM MR. JEREMIAH LUBEN 229 E. GREEN BAY STREET BONDUEL. WI 54107 PHONE: (715) 758-6583

EMAIL: JEREMIAH.LUBEN@TDSTELECOM.COM

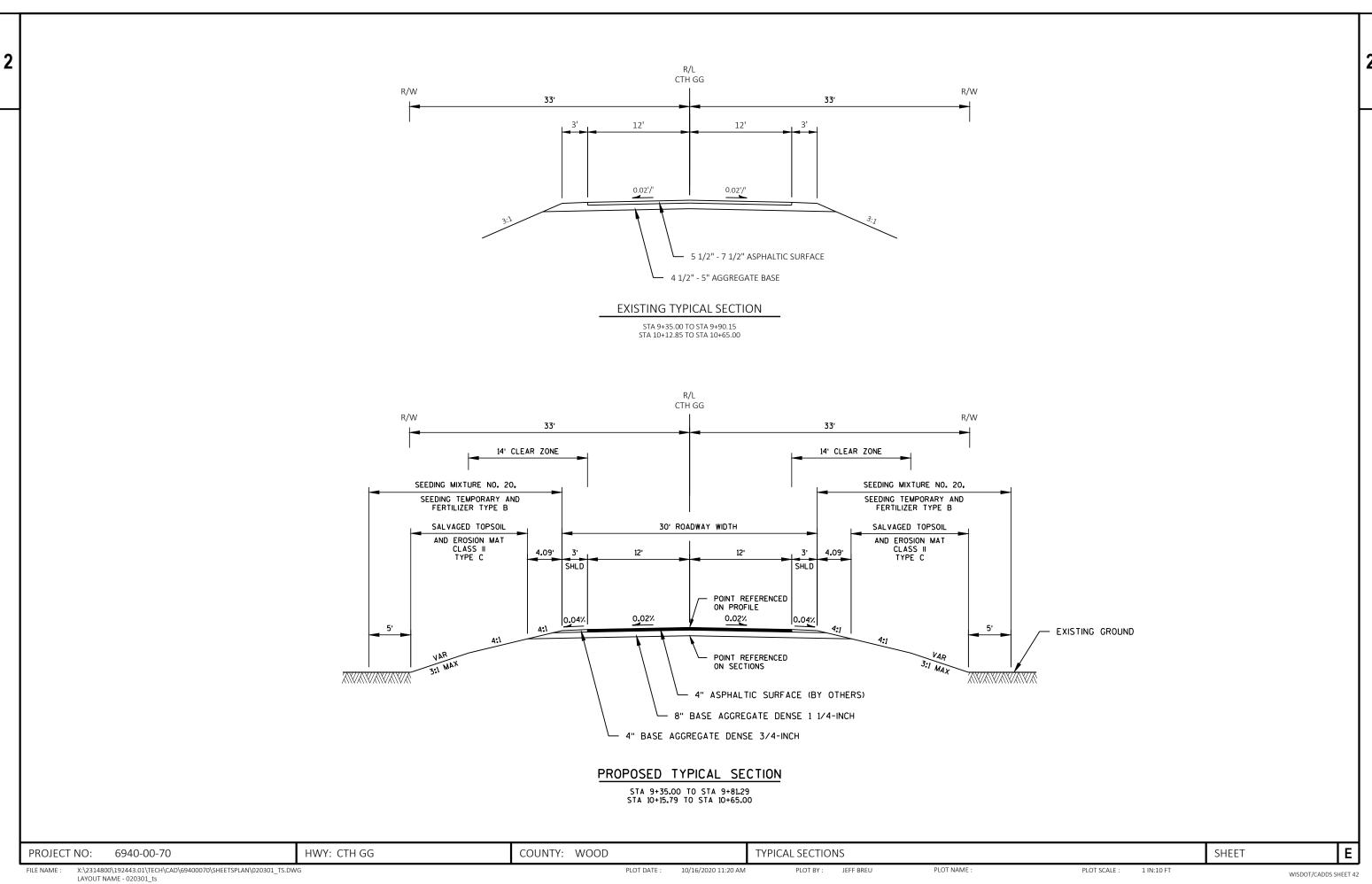
Dial or (800)242-8511 www.DiggersHotline.com

PROJECT NO: 6940-00-70 HWY: CTH GG COUNTY: WOOD **GENERAL NOTES** SHEET Ε

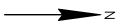
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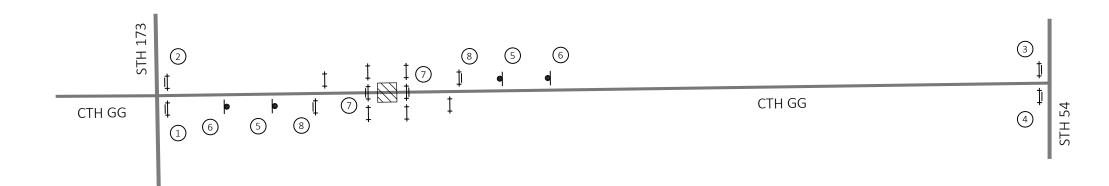
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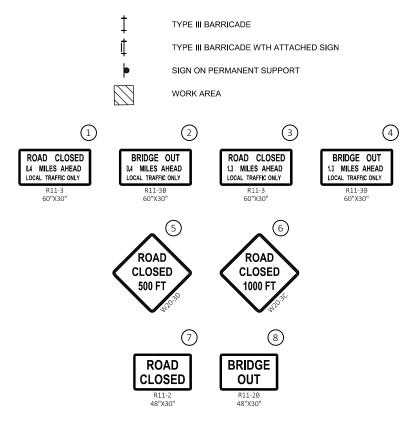








LEGEND



NOTES

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

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

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

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

ALL SIGNS 48"x48" UNLESS NOTED OTHERWISE.

TRAFFIC CONTROL FOR RAILROAD CROSSING ARE SHOWN ON THE PLAN AND PROFILE SHEET.

Ε PROJECT NO: 6940-00-70 HWY: CTH GG COUNTY: WOOD TRAFFIC CONTROL SHEET 9/4/2020 7:43 AM

					6940-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+01.50	LS	1.000	1.000
0004	205.0100	Excavation Common	CY	100.000	100.000
0006	206.1000	Excavation for Structures Bridges (structure) 01. B-71-0203	LS	1.000	1.000
8000	210.1500	Backfill Structure Type A	TON	308.000	308.000
0010	213.0100	Finishing Roadway (project) 01. 6940-00-70	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	19.000	19.000
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	175.000	175.000
0016	502.0100	Concrete Masonry Bridges	CY	137.000	137.000
0018	502.3200	Protective Surface Treatment	SY	174.000	174.000
0020	505.0400	Bar Steel Reinforcement HS Structures	LB	3,980.000	3,980.000
0022	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	18,370.000	18,370.000
0024	513.4061	Railing Tubular Type M	LF	114.000	114.000
0026	516.0500	Rubberized Membrane Waterproofing	SY	20.000	20.000
0028	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	650.000	650.000
0030	606.0300	Riprap Heavy	CY	166.000	166.000
0032	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	156.000	156.000
0034	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6940-00-70	EACH	1.000	1.000
0036	619.1000	Mobilization	EACH	1.000	1.000
0038	624.0100	Water	MGAL	4.000	4.000
0040	625.0500	Salvaged Topsoil	SY	60.000	60.000
0042	628.1504	Silt Fence	LF	50.000	50.000
0042	628.1520	Silt Fence Maintenance	LF	100.000	100.000
0044	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0048	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0048	628.2027	Erosion Mat Class II Type C	SY	60.000	60.000
0050	628.6005	Turbidity Barriers	SY	170.000	170.000
		•	LF		
0054	628.7504	Temporary Ditch Checks		40.000	40.000
0056	629.0210	Fertilizer Type B	CWT	0.200	0.200
0058	630.0120	Seeding Mixture No. 20	LB	4.000	4.000
0060	630.0200	Seeding Temporary	LB	2.000	2.000
0062	630.0500	Seed Water	MGAL	3.000	3.000
0064	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0066	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0068	638.2602	Removing Signs Type II	EACH	4.000	4.000
0070	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0072	642.5001	Field Office Type B	EACH	1.000	1.000
0074	643.0420	Traffic Control Barricades Type III	DAY	1,098.000	1,098.000

Page 2

0104

SPV.0090 Special 01. Flashing Stainless Steel

Estimate Of Quantities

					6940-00-70
Line	Item	Item Description	Unit	Total	Qty
0076	643.0705	Traffic Control Warning Lights Type A	DAY	1,952.000	1,952.000
0078	643.0900	Traffic Control Signs	DAY	1,098.000	1,098.000
0800	643.5000	Traffic Control	EACH	1.000	1.000
0082	645.0111	Geotextile Type DF Schedule A	SY	92.000	92.000
0084	645.0120	Geotextile Type HR	SY	340.000	340.000
0086	646.1005	Marking Line Paint 4-Inch	LF	428.000	428.000
8800	650.4500	Construction Staking Subgrade	LF	97.000	97.000
0090	650.5000	Construction Staking Base	LF	97.000	97.000
0092	650.6500	Construction Staking Structure Layout (structure) 01. B-71-0203	LS	1.000	1.000
0094	650.9910	Construction Staking Supplemental Control (project) 01. 6940-00-70	LS	1.000	1.000
0096	650.9920	Construction Staking Slope Stakes	LF	97.000	97.000
0098	690.0150	Sawing Asphalt	LF	48.000	48.000
0100	715.0502	Incentive Strength Concrete Structures	DOL	786.000	786.000
0102	801.0117	Railroad Flagging Reimbursement	DOL	6,500.000	6,500.000

69.000

69.000

	EARTHWORK SUMMARY											
FROM/TO STATION	LOCATION	205.0100 EXCAVATION COMMON CUT (1)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (2)	UNEXPANDED FILL	EXPANDED FILL (FACTOR 1.25)	MASS ORDINATE +/- (3)	208.0100 BORROW				
9+35 - 9+81.29	CTH GG	51	15	36	1	1	35	0				
10+15.79 - 10+65	CTH GG	49	16	33	3	4	29	0				
	100 TOTAL 0											

(1) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED TOTAL WASTE = 64 CY

- AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL
- THE MASS ORDINATE + OR QUANTITY CALCULATED. PLUS QUANTITY INDICATES AS EXCESS OF MATERIAL. MINUS INDICATES A SHORTAGE OF MATERIAL.

BASE AGGREGATE DENSE

			TOTAL	19	175	4
10+15.79	-	10+65	CTH GG, LT & RT	9	85	2
9+35	-	9+81.29	CTH GG, LT & RT	10	90	2
STATION	TO	STATION	LOCATION	TON	TON	MGAL
				3/4-INCH	1-1/4 INCH	WATER
				BASE AGGREGATE DENSE	AGGREGATE DENSE	624.0100
				305.0110	BASE	
					305.0120	

v	n	DII	174	TI	ON	

SILT FENCE

TURBIDITY BARRIERS

TOTAL

LOCATION

CTH GG

CTH GG

628.6005 TURBIDITY BARRIERS

SY

80

90

170

		TOTAL	1.000
0020	PROJECT	M/L	0.800
0010	PROJECT	M/L	0.200
CATEGORY	STATION TO STATION	LOCATION	EACH
			619.1000 MOBILIZATION

OTATION T			628.1504 SILT FENCE	SILT FENCE MAINTENANCE
OTATION T			SILT FENCE	MAINTENANCE
OTATION T				
STATION T	O STATION	LOCATION	LF	LF
9+35	9+81.29	CTH GG, LT/RT	20	40
10+15.79	10+65	CTH GG, LT/RT	20	40
UNDISTRIBUTED		VARIOUS	10	20
		TOTAL	50	100

EDUSION	CONTROL	MORII	PATIONS

STATION

9+95

10+03

				625.0500 SALVAGED TOPSOIL	628.2027 EROSION MAT CLASS I I TYPE C	629.0210 FERTILIZER TYPE B	630.0120 SEEDING MIXTURE NO. 20	630.0200 **SEEDING TEMPORARY	630.0500 SEED WATER
STATION	TO	STATION	LOCATION	SY	SY	CWT	LB	LB	MGAL
9+35	-	9+81.29	CTH GG	24	24	0.1	2	1	1
10+15.79	-	10+65	CTH GG	36	36	0.1	2	1	2
			TOTAL	60	60	0.2	4	2	3

LANDSCAPING ITEMS

ALL ITEMPS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

HWY: CTH GG COUNTY: WOOD Ε PROJECT NO: 6940-00-70 MISCELLANEOUS QUANTITIES SHEET X:\2314800\192443.01\TECH\CAD\69400070\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030201_mq PLOT DATE : 12/14/2020 10:21 AM PLOT BY: JEFF BREU PLOT NAME : PLOT SCALE : 1 IN:1 FT FILE NAME :

WISDOT/CADDS SHEET 42

^{**} SEEDING TEMPORARY AT HALF RATE

SIGNING

TRAFFIC CONTROL ITEMS

STATION	LOCATION	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS		TRAFFIC CONTROL BARRICADES	643.0420 TRAFFIC CONTROL BARRICADES	TRAFFIC CONTROL WARNING LIGHTS	643.0705 TRAFFIC CONTROL WARNING LIGHTS	TRAFFIC* CONTROL	643.0900 TRAFFIC CONTROL	
9+70	CTH GG, LT & RT	-	-	2	2			TYPE III	TYPE III	TYPE A	TYPE A	SIGNS	SIGNS	
10+27	CTH GG, LT & RT	-	-	2	2		PROJECT	EACH	DAY	EACH	DAY	EACH	DAY	REMARKS
9+70	CTH GG, LT & RT	2	6	-	-	W5-52L & W5-52R	6940-00-70	18	1,098	32	1,952	18	1,098	61 CALENDAR DAYS
10+27	CTH GG, LT & RT	2	6	-	-	W5-52L & W5-52R	TOTAL	10	1,098	UL.	1,952	10	1,098	OT ONLE INDICATE DATE
	TOTAL	4	12	4	4		101712		,		,		,	

*INCLUDES THE 4 SIGNS ALONG CRANBERRY CREEK

PAVEMENT MARKING

646.1005 PAINT 4-INCH

				WHITE	YELLOW	
STATION	TO	STATION	LOCATION	LF	LF	REMARKS
9+00	-	10+65	CTH GG, LT/RT	260	-	EDGE LINES
9+00	-	10+65	CTH GG	-	168	CENTER LINE (SOLID AND DASH)
			TOTAL	260	168	

CONSTRUCTION STAKING

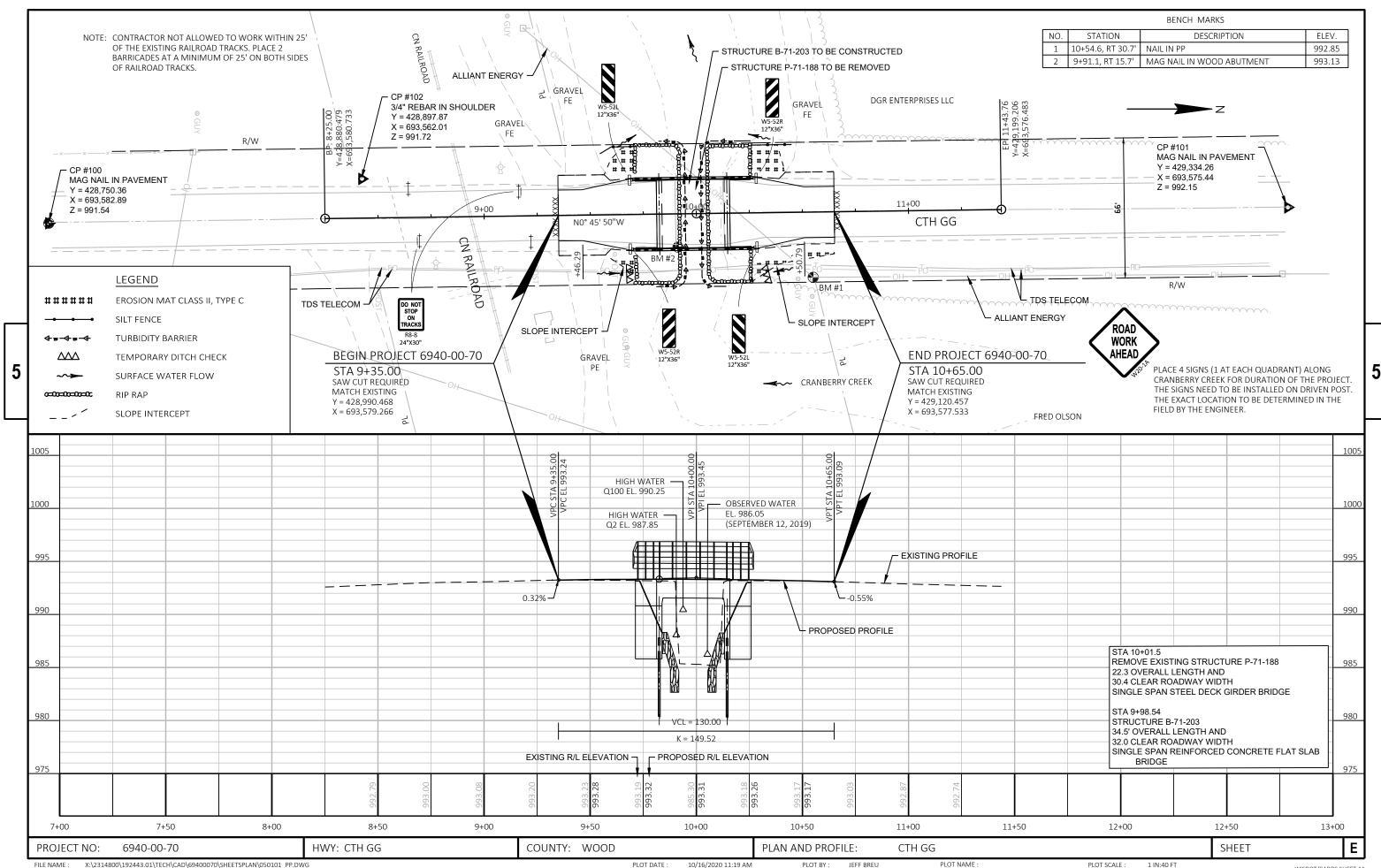
STAKING STAKING CONTROL STAKING SUBGRADE BASE (PROJECT) SLOPE STAKES STATION TO STATION LOCATION LF LF LS LF	9+35 10+15.79	-	9+81.29 10+65	CTH GG CTH GG	47 50	47 50	-	47 50
STAKING STAKING CONTROL STAKING SUBGRADE BASE (PROJECT) SLOPE STAKES STATION TO STATION LOCATION LF LF LS LF		-			**		-	
STAKING STAKING CONTROL STAKING SUBGRADE BASE (PROJECT) SLOPE STAKES					**			
	STATION	то	STATION	LOCATION	SUBGRADE	BASE	(PROJECT)	SLOPE STAKES

SAWING ASPHALT

			690.0150 SA\	WING
	STATION	LOCATION	ASPHALT	LF
_	9+35	CTH G	24	
	10+65	CTH G	24	
_		TOTAL	48	

ALL ITEMPS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

Ε HWY: CTH GG COUNTY: WOOD PROJECT NO: 6940-00-70 MISCELLANEOUS QUANTITIES SHEET X:\2314800\192443.01\TECH\CAD\69400070\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030202_mq FILE NAME : PLOT DATE : 12/15/2020 2:07 PM PLOT BY: JEFF BREU PLOT NAME : PLOT SCALE : 1 IN:1 FT WISDOT/CADDS SHEET 42



Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
L2A03-10	NAME PLATE (STRUCTURES)
L5C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
L5C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
L5C08-20A	LONGITUDINAL MARKING (MAINLINE)
L5C11-07в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
L5D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
L5D38-02B	ATTACHMENT OF SIGNS TO POSTS

6

GENERAL NOTES

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

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



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

6

6

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GENERAL NOTES

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

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H. EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER ∞

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

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



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

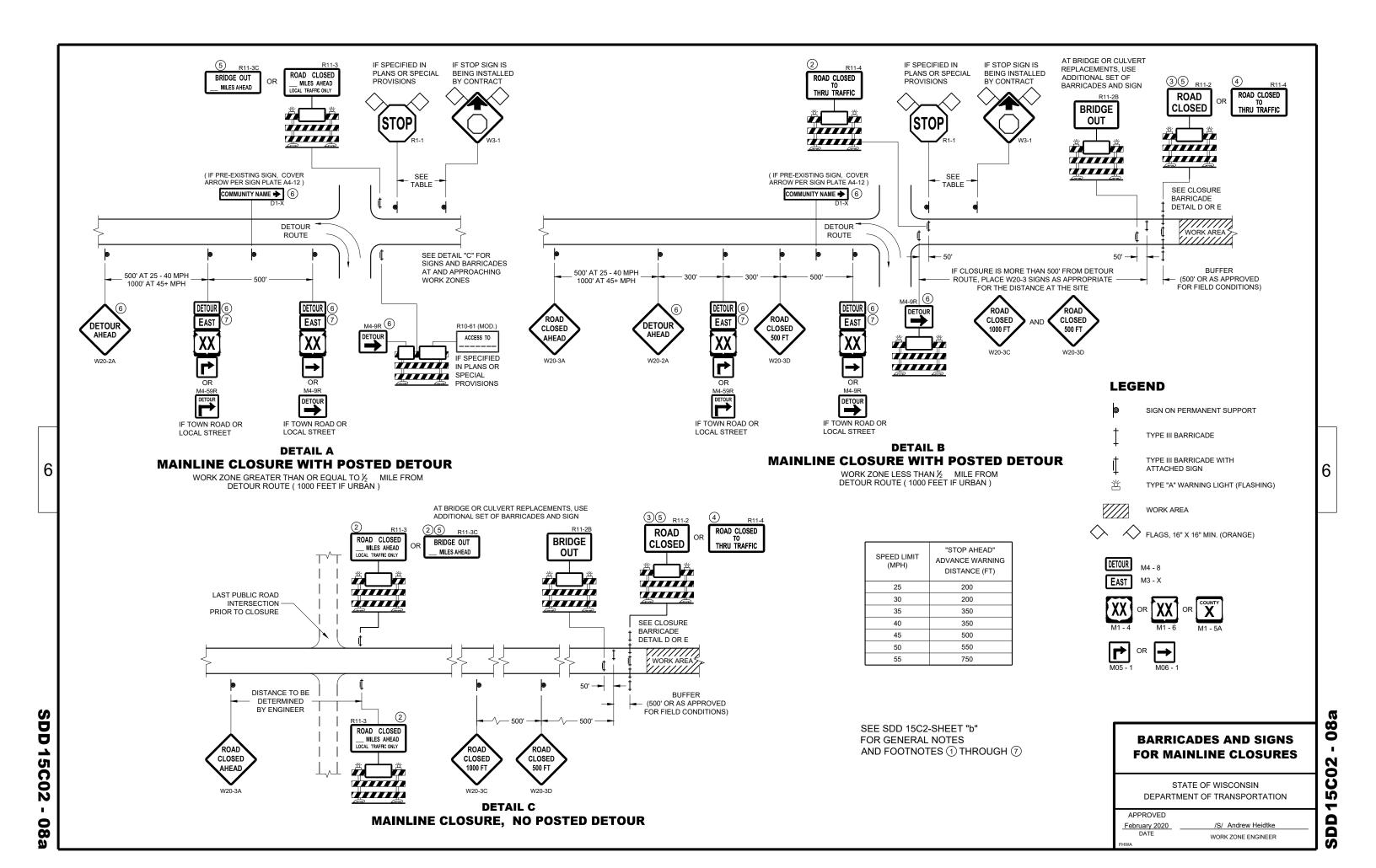
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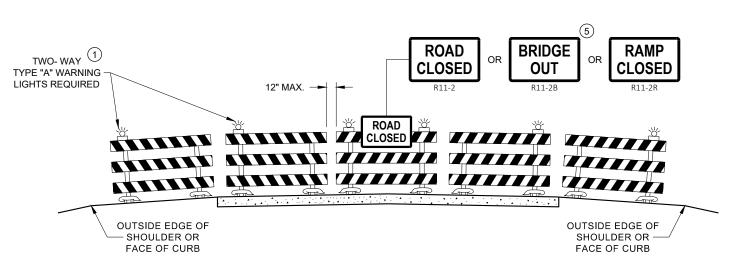
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

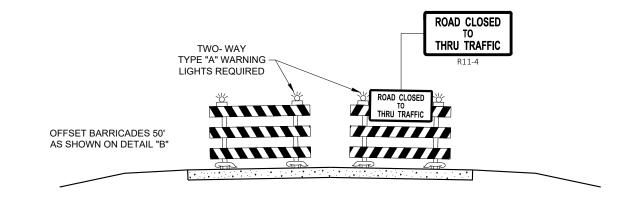
D.D. 12 A

3-10





DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

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

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

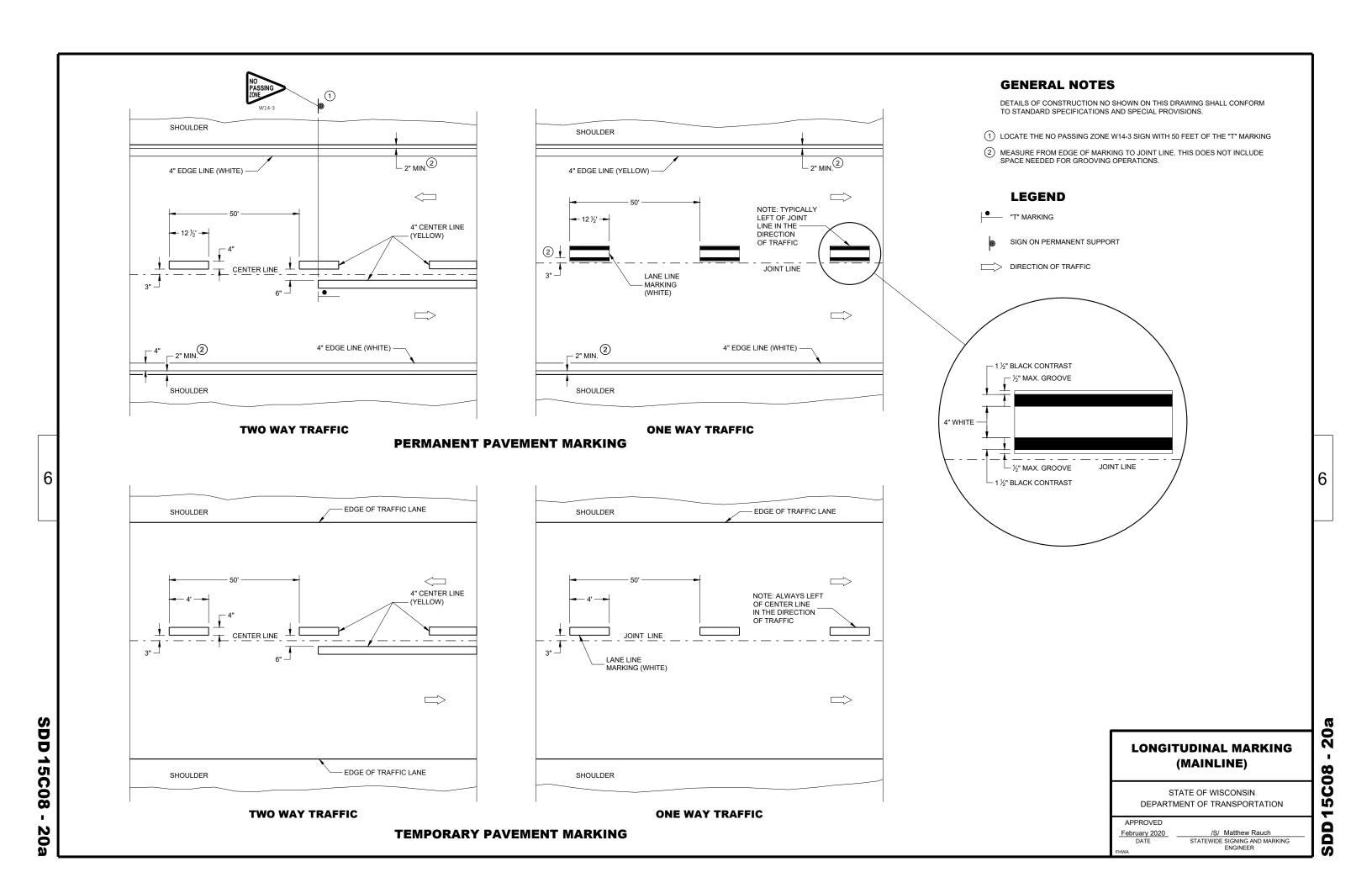
February 2020 DATE

WORK ZONE ENGINEER

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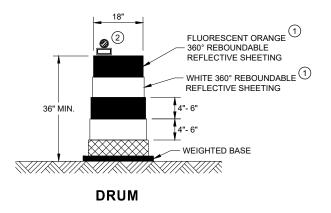
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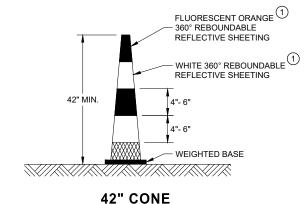


SDD 15C11

GENERAL NOTES

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



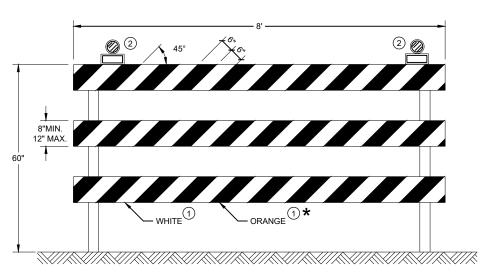


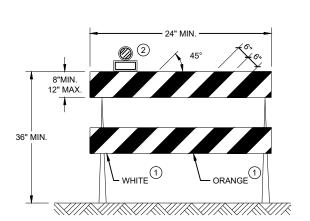


THE STRIPES SHALL SLOPE DOWNWARD TO

THE TRAFFIC SIDE FOR CHANNELIZATION.

DO NOT USE IN TAPERS ½ SPACING OF DRUMS





TYPE II BARRICADE

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

TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

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SDD



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF			
L	E WOOD POSTS REQUIRED			
48" OR LESS AND LESS THAN 20 SO.FT.	-	1		
LESS THAN 60"	12"	2	٤	
60" TO 120"	L/5	2		
GREATER THAN 120" LESS THAN 168"	12"	3		
168" AND GREATER	12"	4		

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D D 15 D ∞

6

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6

- 11/2" DIAMETER HOLES

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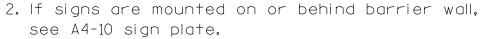
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm).

- 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 signs mounted on traffic signal poles is $5'-3''(\frac{+}{2})$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

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

** Curb Flowline

D
White Edgeline Location

*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

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

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.

HWY:

* 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.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. _A4-3.22

SHEET NO:

Ε

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

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

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

APPROVED



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

Matther R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

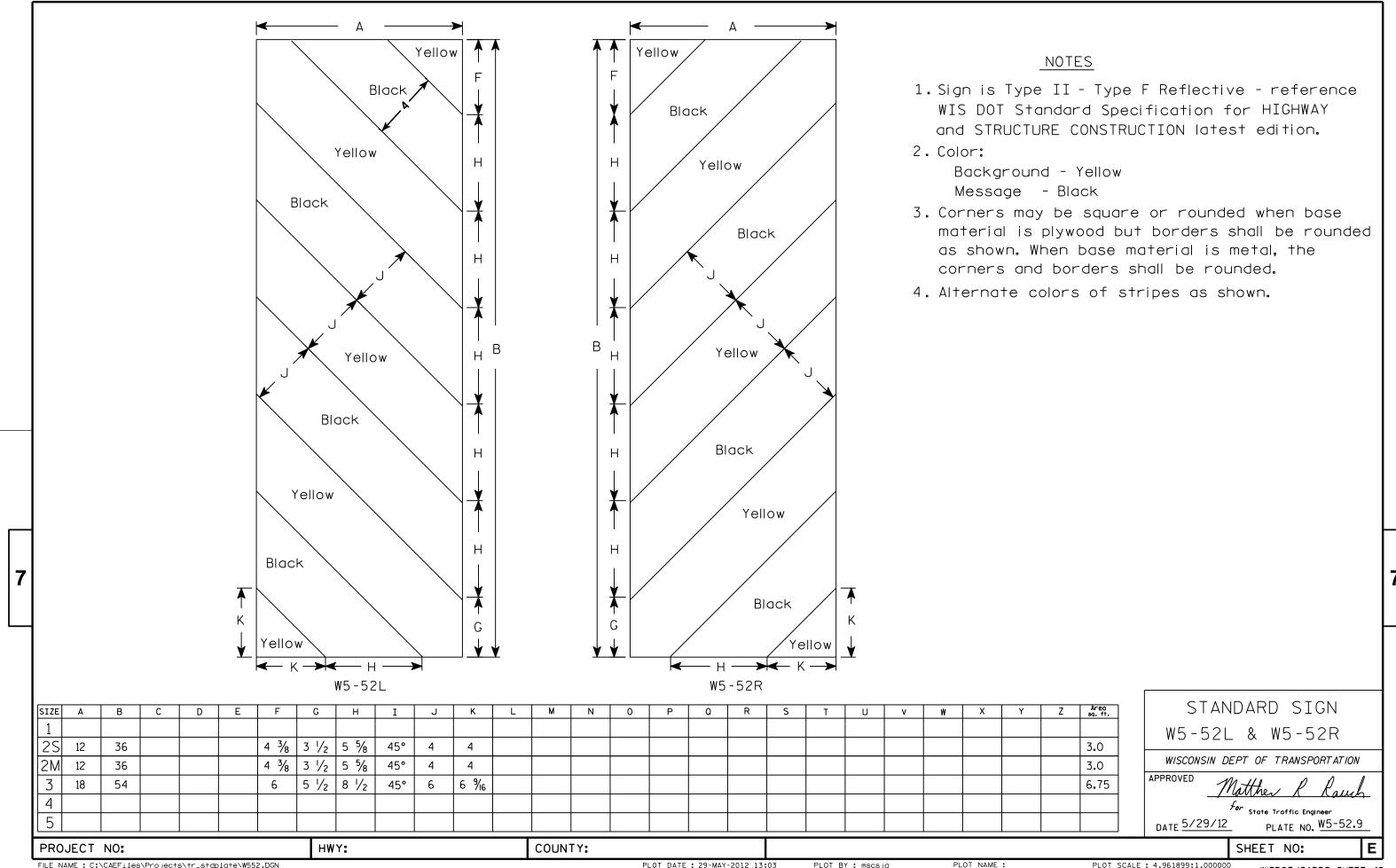
PLOT DATE . 11-416-2016 11:35

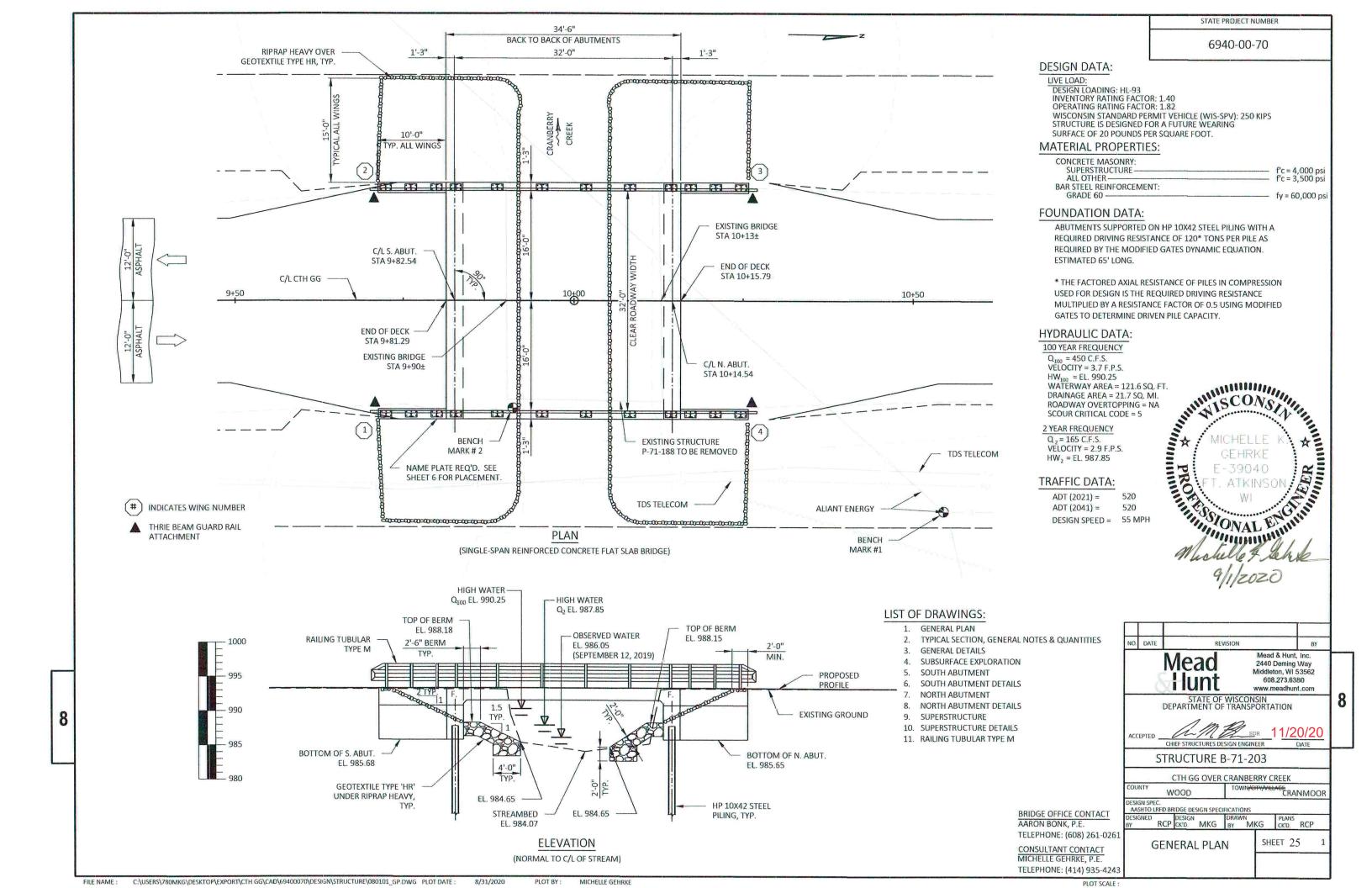
PINT RY * \$\$ nintuser \$\$

SHEET NO:

| | |







CROSS SECTION THRU BRIDGE (LOOKING NORTH)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

6940-00-70

STATE PROJECT NUMBER

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE FABRIC TYPE 'HR' TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

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

THE QUANTITY FOR BACKFILL STRUCTURE TYPE A IS CALCULATED BASED ON THE DETAIL SHOWN ON SHEET 3.

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

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO NAVD88 (1991) DATUM.

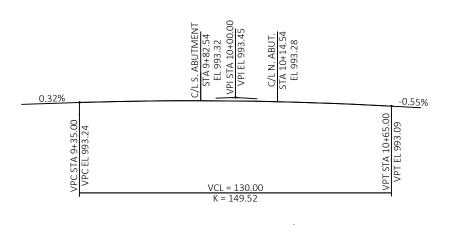
THE EXISTING STRUCTURE TO BE REMOVED IS A 22.3' LONG BY 30.4' CLEAR ROADWAY WIDTH, SINGLE-SPAN STEEL DECK GIRDER BRIDGE (P-71-188).

⚠ ¾" CONTINUOUS V-GROOVE REQ'D. EXTEND TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM.

☐ COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-0" OF THE FRONT FACE OF ABUTMENT. SEE DETAIL ON SHEET 10.

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	S ABUT	N ABUT	SUPER	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+01.5	LS				
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-71-203	LS				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	154	154		308
502.0100	CONCRETE MASONRY BRIDGES	CY	32	32	73	137
502.3200	PROTECTIVE SURFACE TREATMENT	SY	11	11	152	174
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1990	1990		3980
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1380	1380	15610	18370
513.4061	RAILING TUBULAR TYPE M	LF			114	114
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10		20
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	325	325		650
606.0300	RIPRAP HEAVY	CY	83	83		166
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	78	78		156
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	46	46		92
645.0120	GEOTEXTILE TYPE HR	SY	170	170		340
SPV.0090.01	FLASHING STAINLESS STEEL	LF			69	69
	NON BID ITEMS	•	•			·
	FILLER	SIZE				1/2" & 3/4"



PROFILE GRADE LINE, C/L CTH GG

BENCHMARKS						
NO.	STATION	ELEV.	DESCRIPTION			
BM1	10+54.6, 30.7' RT	992.85	NAIL IN PP			
ВМ2	9+91.1, 15.7' RT	993.13	MAG NAIL IN WOOD ABUTMENT			

NO.	DATE	REVISION	BY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
STRUCTURE B-71-203						

STRUCTURE	B-/1-	203			
	DRAWN BY	MKG	PLAN CK'D.	IS	RCP
TYPICAL SECT	ION,	SHE	ET	2	OF 11
CENTED AT MOT	FC 0				

GENERAL NOTES & **QUANTITIES**

STRUCTURE BACKFILL NOTES

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-71-203" SHALL BE THE EXISTING GROUNDLINE.

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

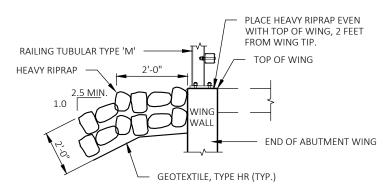
EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL, GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

LEGEND

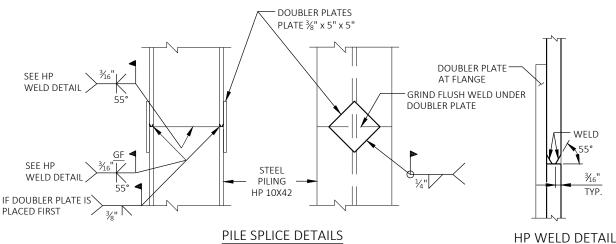
- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO THE EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

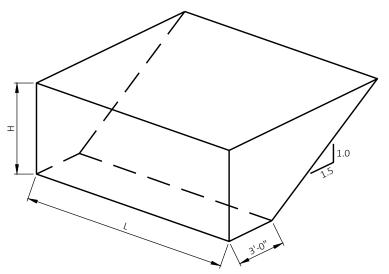
STRUCTURE BACKFILL & PIPE UNDERDRAIN DETAIL

(TYPICAL AT BOTH ABUTMENTS)



TYPICAL FILL SECTION AT WING TIPS





ABUTMENT BACKFILL DIAGRAM

L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)

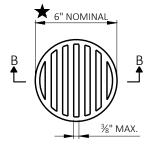
H = AVERAGE ABUTMENT FILL HEIGHT (FT)

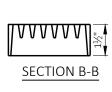
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

 $V_{CF} = (L)(3.0)(H) + (L)(0.5)(1.5H)(H)$

 $V_{CY} = V_{CF} (EF)/27$

 $V_{TON} = V_{CY}(2.0)$





RODENT SHIELD

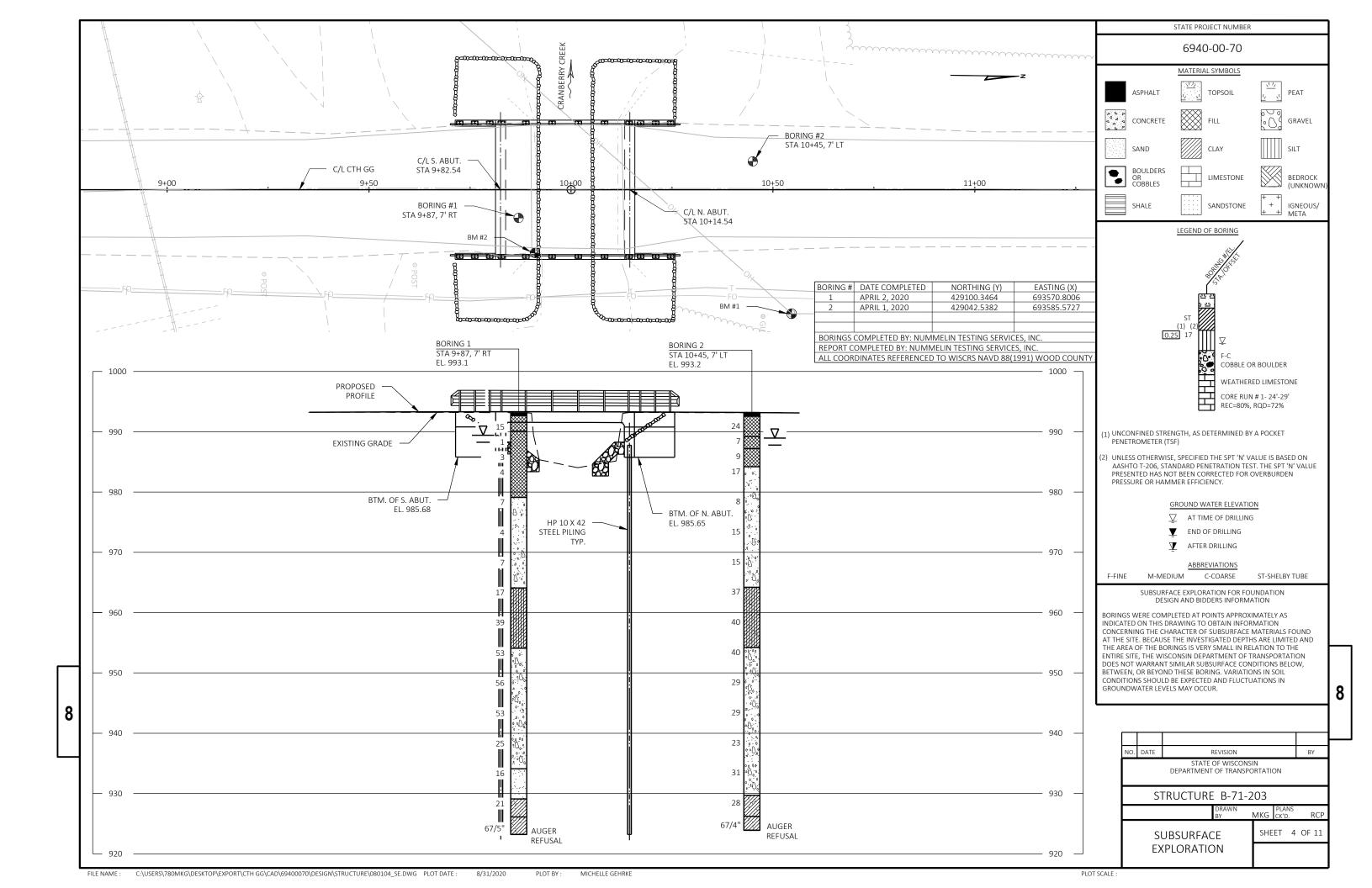
DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

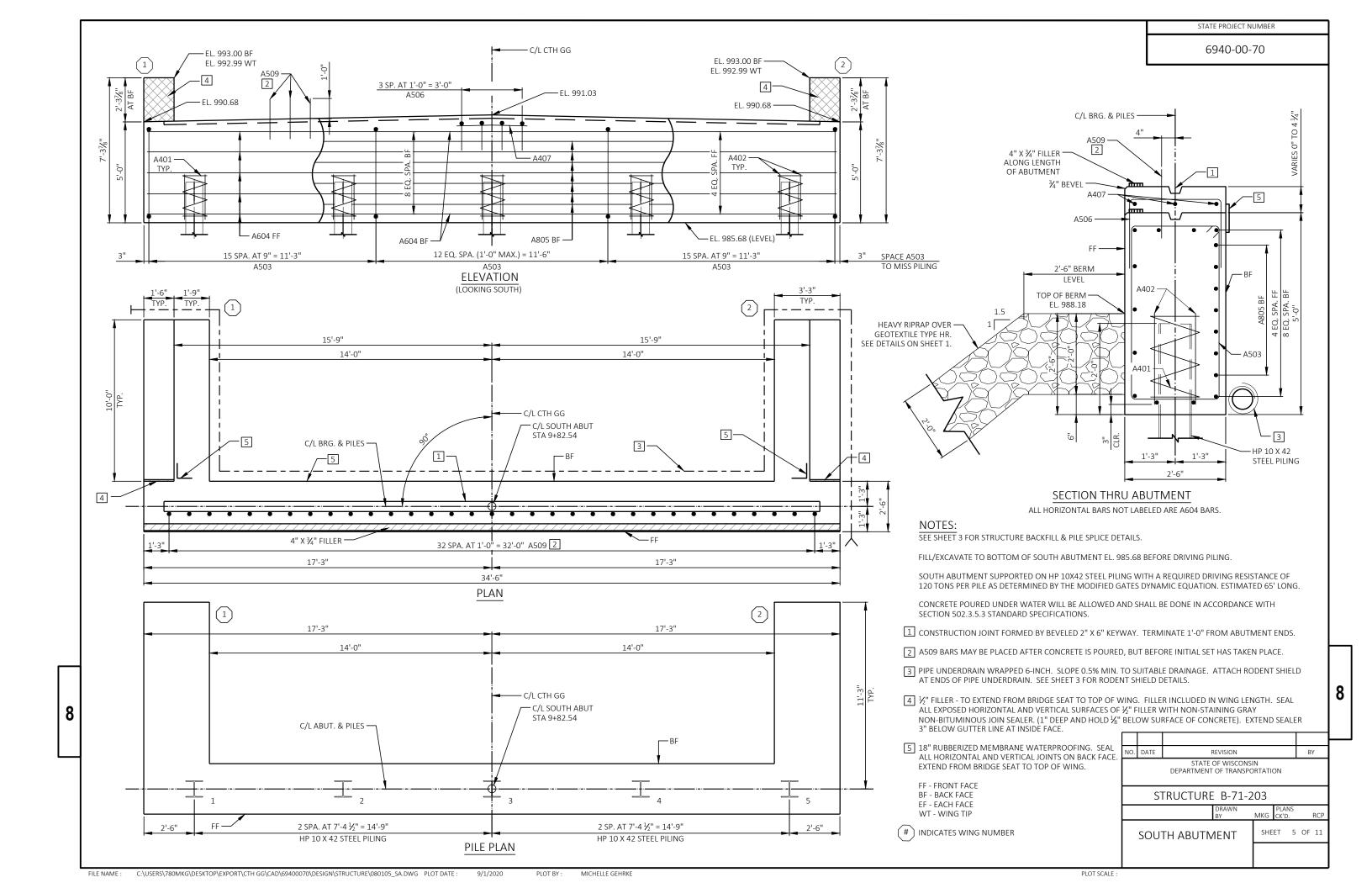
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

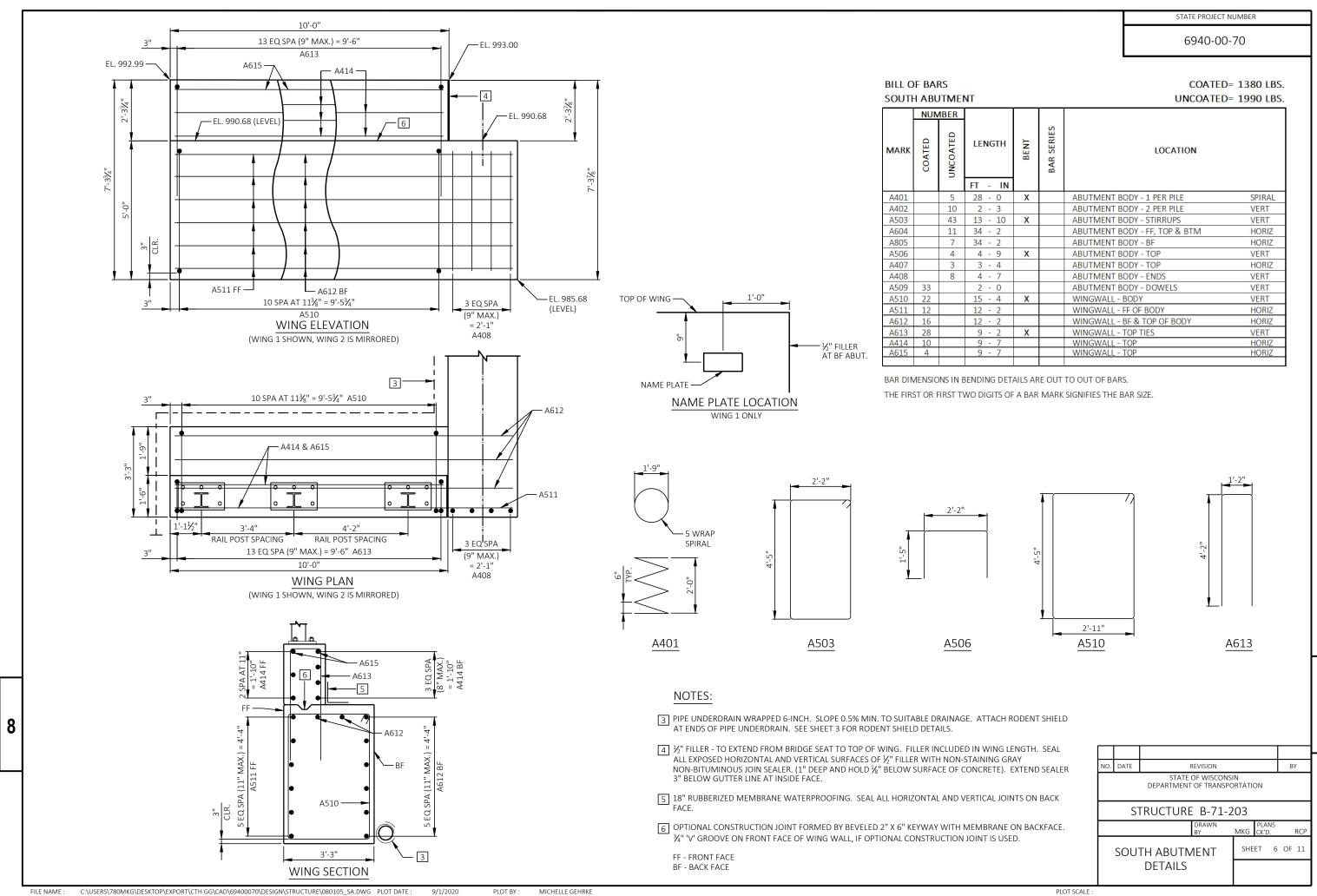
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X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

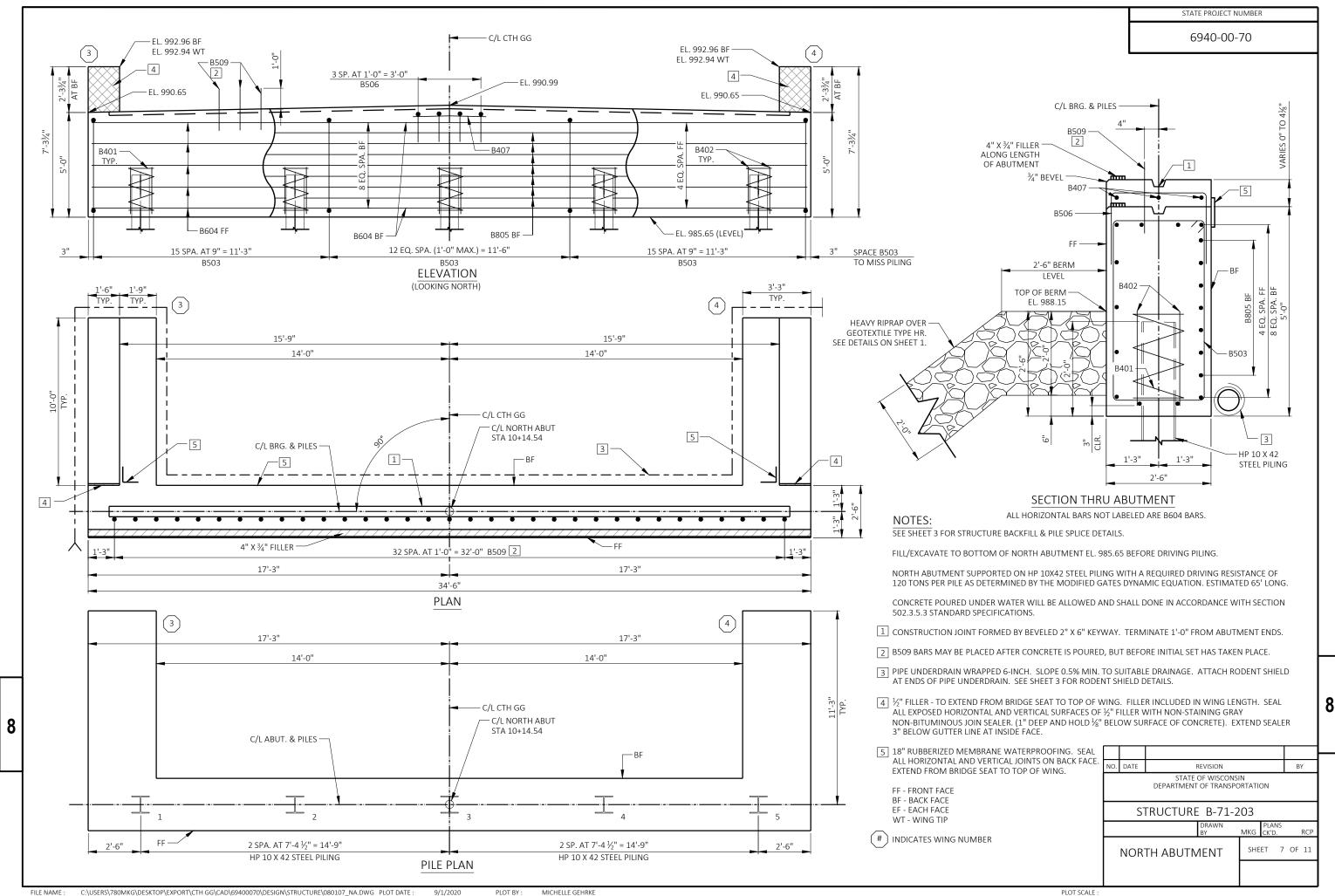
NO.	DATE		BY					
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
	STRUCTURE B-71-203							
		DRAWN PLANS BY MKG CK'D.						
GENERAL DETAILS					ET 3	OF 11		
l				I				

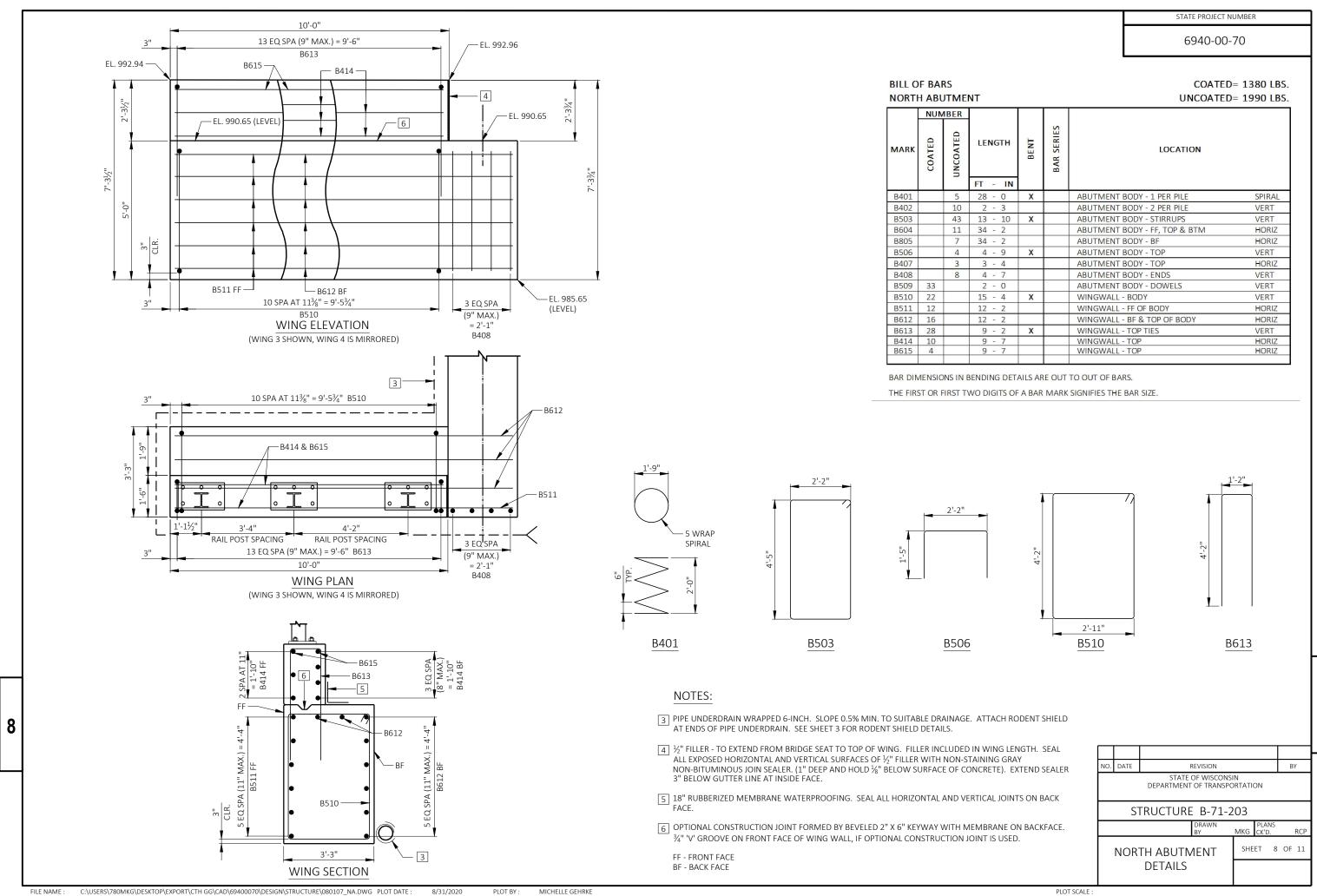
FLANGE SHOWN, WEB SIMILAR

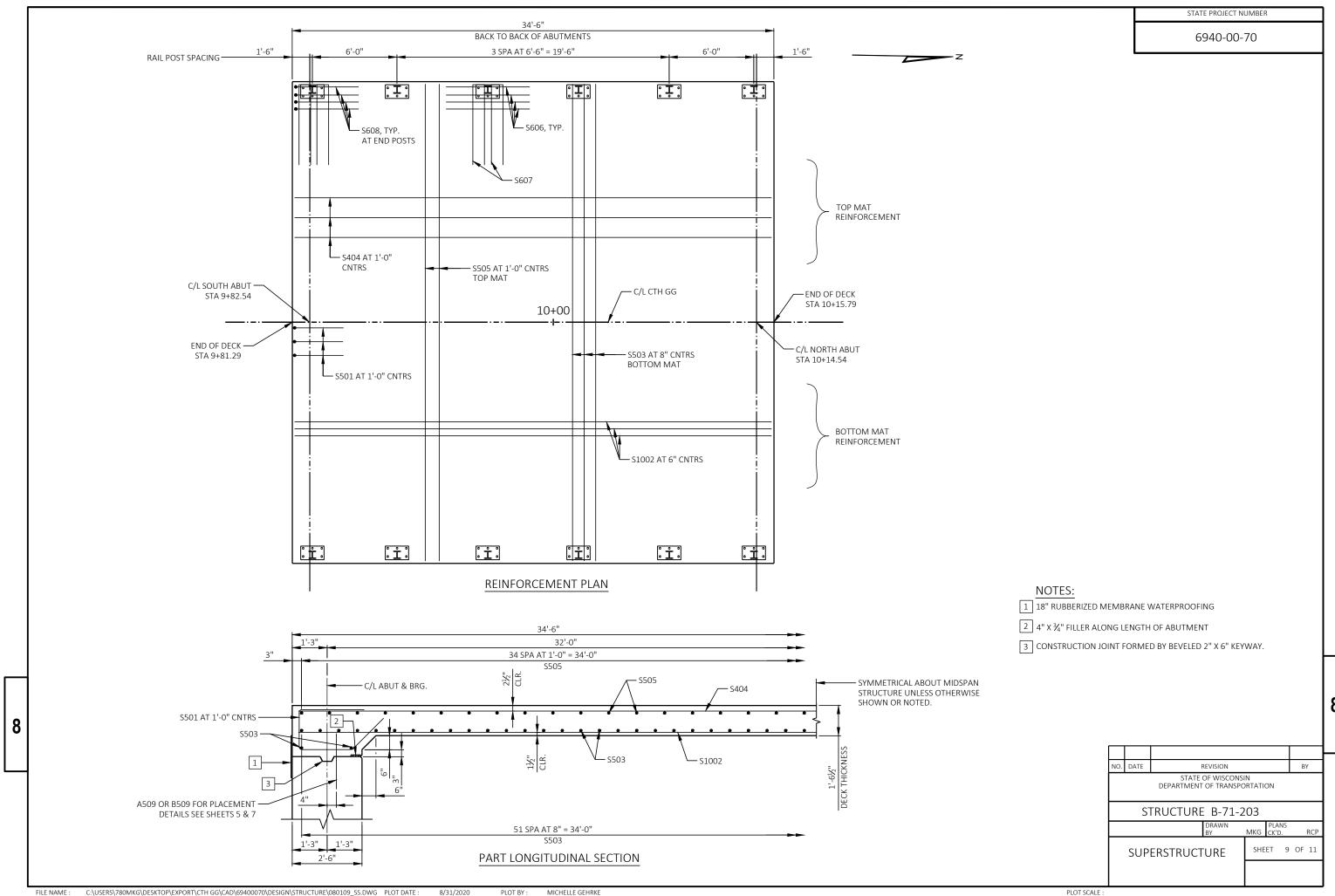






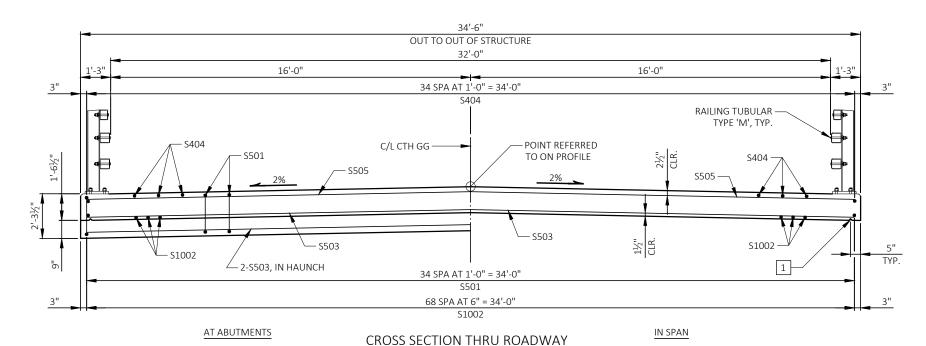






STATE PROJECT NUMBER

6940-00-70



(LOOKING NORTH)

BILL OF BARS SUPERSTRUCTURE

COATED= 15610 LBS. UNCOATED= 0 LBS.

	NUN	1BER								
MARK	COATED	UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION				
			FT - IN							
S501	70		7 - 11	X		SLAB - ABUTMENT TIES	VERT			
S1002	69		34 - 2			SLAB - BOTTOM	LONGIT			
S503	56		34 - 2			SLAB - BOTTOM	TRANS			
S404	35		34 - 2			SLAB - TOP	LONGIT			
S505	35		34 - 2			SLAB - TOP	TRANS			
S606	32		6 - 0			RAILING ANCHOR	LONGIT			
S607	24		12 - 0	X		RAILING ANCHOR	TRANS			
S608	16		5 - 0	X		RAILING ANCHOR - AT CORNERS	LONGIT			

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

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

TOP OF DECK ELEVATIONS

CDAN DOINT	WEST EDG	E OF DECK	REFERE	NCE LINE	EAST EDGE OF DE		
SPAN POINT	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	
C/L S. ABUT.	9+82.54	992.97	9+82.54	993.32	9+82.54	992.97	
0.1	9+85.74	992.97	9+85.74	993.32	9+85.74	992.97	
0.2	9+88.94	992.97	9+88.94	993.32	9+88.94	992.97	
0.3	9+92.14	992.97	9+92.14	993.31	9+92.14	992.97	
0.4	9+95.34	992.97	9+95.34	993.31	9+95.34	992.97	
0.5	9+98.54	992.96	9+98.54	993.31	9+98.54	992.96	
0.6	10+01.74	992.96	10+01.74	993.31	10+01.74	992.96	
0.7	10+04.94	992.96	10+04.94	993.30	10+04.94	992.96	
0.8	10+08.14	992.95	10+08.14	993.30	10+08.14	992.95	
0.9	10+11.34	992.95	10+11.34	993.29	10+11.34	992.95	
C/L N. ABUT.	10+14.54	992.94	10+14.54	993.28	10+14.54	992.94	

RAILING NOT SHOWN FOR CLARITY -COAT WITH "PROTECTIVE -SURFACE TREATMENT" PER CAULK ENTIRE LENGTH WITH SILICONE CAULK THE STANDARD SPECIFICATIONS, BEFORE ATTACHING FLASHING. – DETAIL A - FLAHSING STAINLESS STEEL 3/16" X 13/4" (MIN.) CONCRETE SCREWS 1'-0" SPACED AT 1'-0" EACH ROW. STAGGER ROWS. 2" PROTRUSION BENT AT 30°

SURFACE TREATMENT AND FLASHING DETAIL

STAINLESS STEEL FLASHING NOTES

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, SILICONE CAULK, $N_{\rm E}$ " CONCRETE SCREWS AND CLEANING THE EDGE OF THE DECK PRIOR TO ATTACHMENT OF THE FLASHING.

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT APPLICATION.

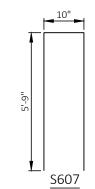
CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO B.F. OF ABUTMENT DIAPHRAGM.

TOP OF FLASHING TO BEGIN APPROX. 1-INCH BELOW TOP OF SLAB SURFACE.

THE FLASHING IS TO BE A CONSTANT HEIGHT BASED ON THE THINEST SLAB DEPTH OVER THE BRIDGE LENGTH.

2'-2" S501



4'-1" S608

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0"

CORRECT CONSTRUCTION DISCREPENCIES ARE TO BE PLUS(+).

CAMBER

(IN)

0

1/4

5/8

3/4

7/8

3/1

5/8

1/2

1/4

0

SPAN (PT)

C/L S ABUT

0.1

0.2

0.3

0.4

0.5

0.6

0.7

0.8

0.9

C/L N ABUT

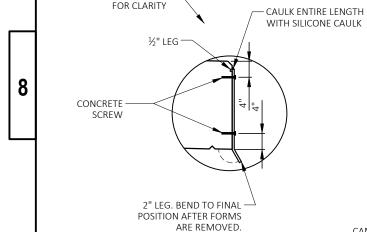
MICHELLE GEHRKE

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO

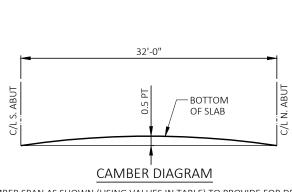
PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS AND AT ₹10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR C/L.

 $\boxed{1}$ $\cancel{4}\text{"}$ Continuous V-groove Req'd. Extend to 6" from front face of abutment diaphragm.

NO.	DATE	I	REVISION BY						
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
STRUCTURE B-71-203									
		RCP							
	SUP	ERSTRUCT	SHE	ET 10	OF	11			
		DETAILS							

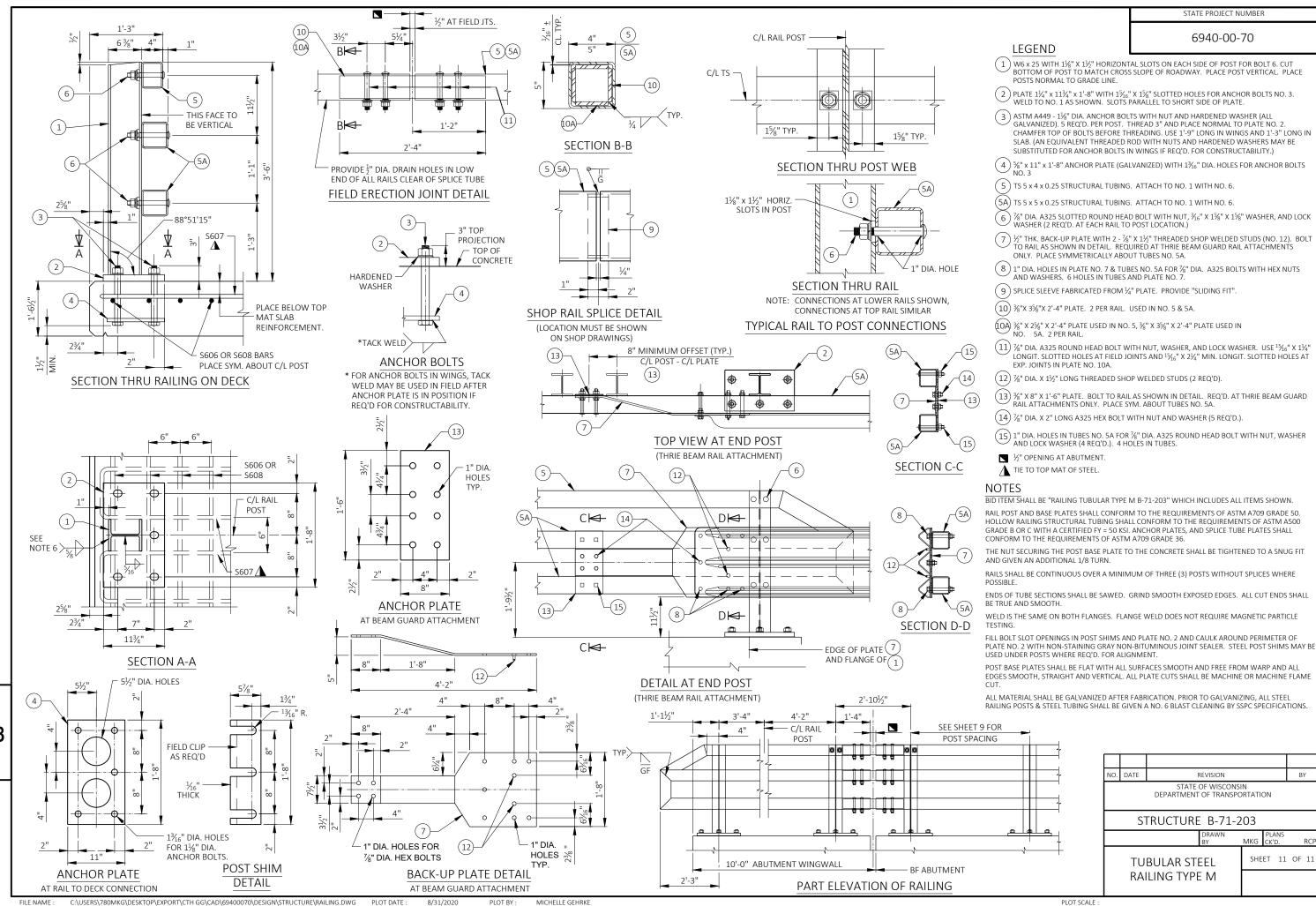


RAILING NOT SHOWN -



9/1/2020

DETAIL A



	AREA (SF)			Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
					Salvaged/Unusable		Cut		
	Cut	Salvaged/Unusable	Fill	Cut	Pavement Material	Fill	1.00	Expanded Fill	Mass Ordinate
STATION		Pavement Material		Note 1	Note 2	Note 3	Note 1	1.25	Note 4
9+35	40	11	0	0	0	0	0	0	0
9+50	38	11	0	22	6	0	22	0	15
9+71	33	11	3	28	9	1	49	1	33
9+72	0	0	0	1	0	0	50	2	33
10+25	0	0	0	0	0	0	50	2	33
10+26	34	11	7	1	0	0	50	2	34
10+50	34	11	0	30	10	3	81	6	50
10+65	32	11	0	18	6	0	99	6	63
			Column Total	99	31	4			

Notes:

- 1 Cut (Salvaged/Unusable Pavement Material is Included)
- 2 Salvaged/Unusable Pavement Material (This does not show up in cross sections.)
- 3 Fill (Does not include Unuseable Pavement volume.)
- 4 The Mass Ordinate + or quantity calculated. Plus quantity indicates as excess of material. Minus indicates a shortage of material.

No Marsh or EBS is anticipated.

9

9

PROJECT NO: 6940-00-70 HWY: CTH GG COUNTY: WOOD EARTHWORK SUMMARY SHEET **E**

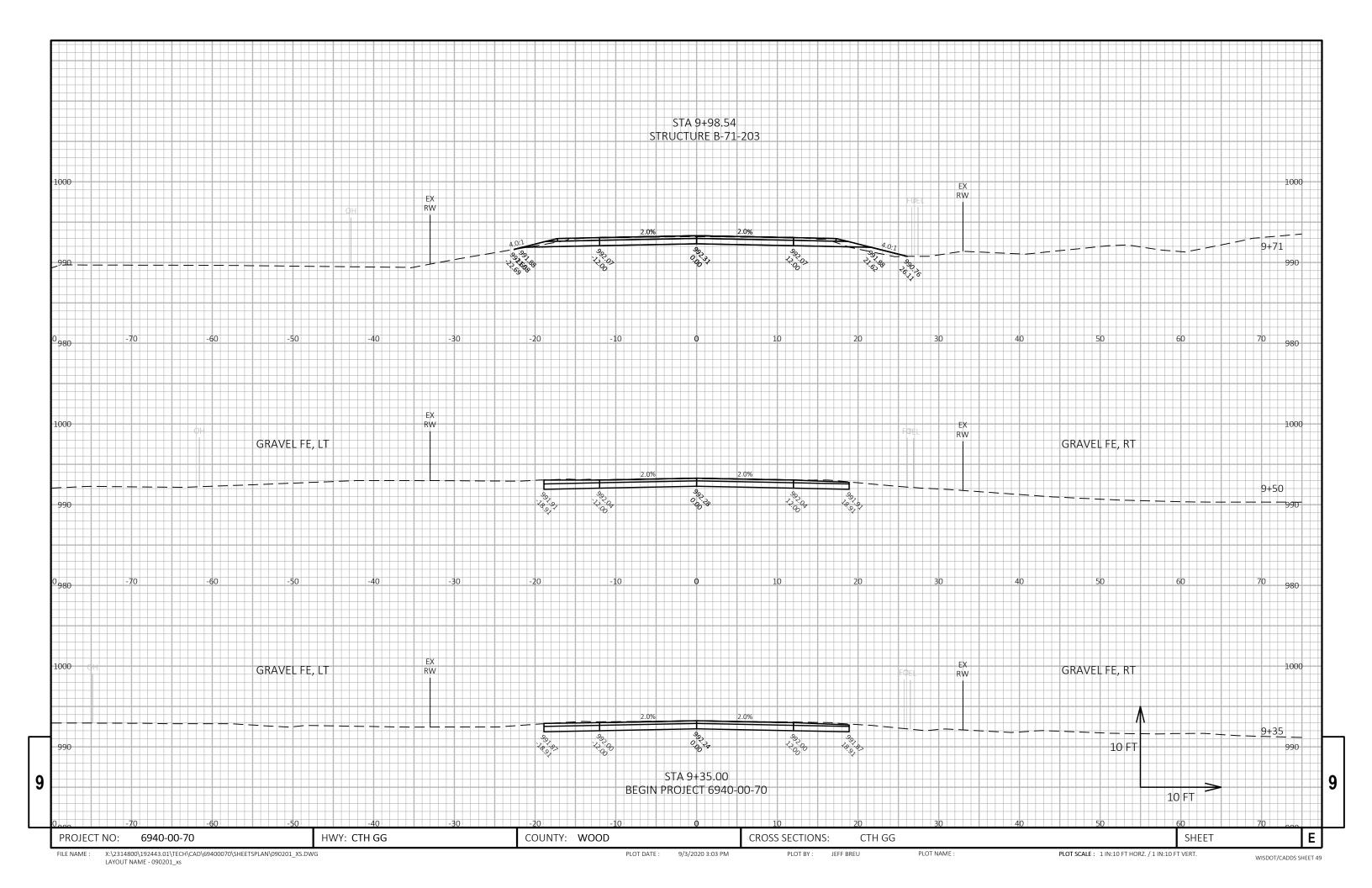
FILE NAME : X:\2314800\192443.01\TECH\CAD\69400070\SHEETSPLAN\090101_EW.DWG LAYOUT NAME - 090101_ew

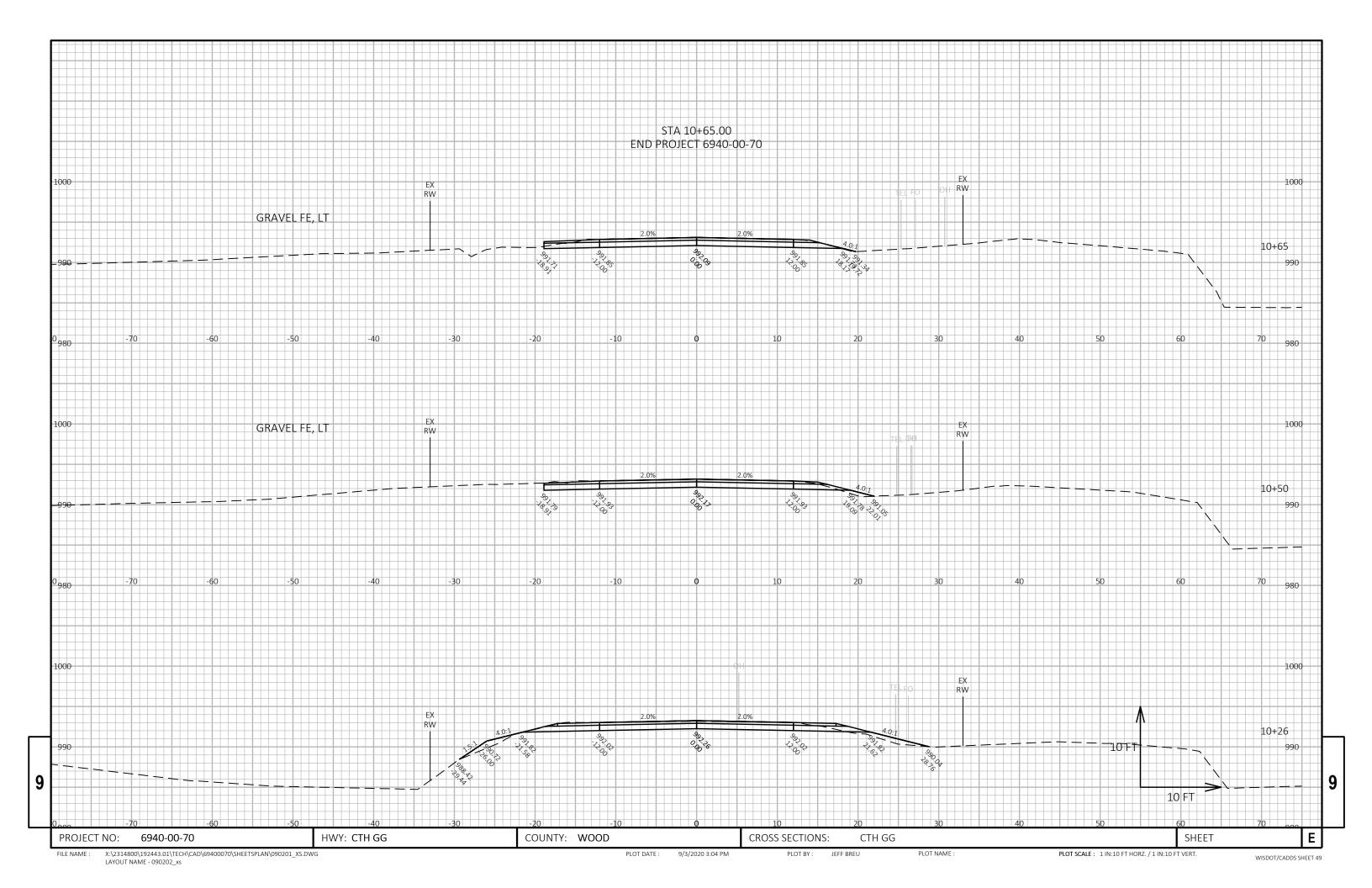
PLOT DATE: 9/3/2020 3:03 PM PLOT BY: JEFF BREU

PLOT NAME :

WISDOT/CADDS SHEET 49

PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.





Notes



Wisconsin Department of Transportation

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