MARCH 2021 FEDERAL PROJECT STATE PROJECT STATE OF WISCONSIN ORDER OF SHEETS PROJECT CONTRACT WISC 2021230 4380-04-71 PROJECT ID: Section No. DEPARTMENT OF TRANSPORTATION Typical Sections and Details Estimate of Quantities PLAN OF PROPOSED IMPROVEMENT Section No. Plan and Profile Standard Detail Drawings Section No. 4380-04-T FRANKLIN, OLD SETTLERS ROAD Section No. Section No. Section No. Computer Earthwork Data **BLACK CREEK BRIDGE** Section No. LOC STR TOTAL SHEETS = 44 **KEWAUNEE COUNTY** PROJECT LOCATION STATE PROJECT NUMBER 4380-04-71 R 22 E R 23 E R 24 E Ellisville ACCEPTED FOR TOWN OF FRANKLIN Pilsen Henrysvill 29 T 23 N Ea Kr **END PROJECT** STA 10+50 Krok CUNTY FCH O31 Y=407858.267 ORIGINAL PLANS PREPARED BY X=215281.427 **BEGIN PROJECT** DESIGN DESIGNATION STA 9+50 Y=407858.164 A.A.D.T. (2041) = <100 X=215281.427 D.H.V. D.D. = 3.5% **DESIGN SPEED** = 55 MPH DENMARK = 9900 **ESALS** SHADY Fontenov CONVENTIONAL SYMBOLS T 22 N П Shea WAUNE CORPORATE LIMITS 1////// GRADE LINE STRUCTURE B-31-0109 Curran KB ORIGINAL GROUND PROPERTY LINE ROCK MARSH OR ROCK PROFILE 10-14-2020 dinger L. (To be noted as such) Denmark LIMITED HIGHWAY EASEMENT SPECIAL DITCH KB **EXISTING RIGHT OF WAY** STATE OF WISCONSIN Chada Bolt GRADE ELEVATION AB PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION 31 CULVERT (Profile View) SLOPE INTERCEPT т PREPARED BY UTILITIES REFERENCE LINE Surveyor ELECTRIC GIBSON AYRES ASSOCIATES Designer EXISTING CULVERT Project Manager PROPOSED CULVERT Cooperstown REGIONAL EXAMINER (Box or Pipe) SANITARY SEWER Regional Supervisor COMBUSTIBLE FLUIDS STORM SEWER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN TELEPHONE COORDINATE REFERENCE SYSTEM (WISCRS), KEWAUNEE COUNTY, APPROVED FOR THE DEPARTMENT WATER NAD83 ( 2011 ), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID MARSH AREA COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES DATE: 10/27/20 LITILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 0.019 Miles ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED. POWER POLE 6 TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12B WOODED OR SHRUB AREA Ø E TELEPHONE POLE FILE NAME: V:\TRANS-GB\450475 OLD SETTLERS ROAD\C3D\SHEETSPLAN\010101 TI.DWG PLOT DATE: 8/28/2020 1:21 PM PLOT BY: GARNICA, BRANDON PLOT NAME

#### **GENERAL NOTES**

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

FILL EXPANSION FACTOR IS 30%.

PROPERTY LINES AS SHOWN ARE APPROXIMATE.

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

BEARINGS SHOWN ON THIS PLAN ARE TRUE BEARINGS TO THE NEAREST SECOND.

ALL TIES ON THIS PLAN ARE HORIZONTAL UNLESS DESCRIBED OTHERWISE.

EROSION CONTROL LOCATIONS AS SHOWN ON THE EROSION CONTROL PLAN ARE APPROXIMATE. THE EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE  $\,$  FINISHED SUBGRADE SHOULDER POINTS ARE TO BE SEEDED AND EROSION MAT AS DIRECTED BY THE ENGINEER.

ALL ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF NAVD 88 (2012).

WISDOT WILL FURNISH A BENCHMARK MONUMENT TO BE SET BY THE CONTRACTOR.

SAW CUT LOCATIONS SHOWN ON THE PLAN ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD. THE LINE OF SUCH SAW CUTS WILL BE NEATLY DELINEATED THROUGH THE ASPHALT WITHOUT ANY DAMAGE TO THE REMAINING PORTION OF THE EXISTING PAVEMENT.

#### UTILITIES

\* CENTURYLINK

212 CHURCH AVE CASCO, WI 54205 ATTENTION: MATT GUNDERSON E-MAIL: matt.gunderson@centurylink.com

TELEPHONE 920-617-5151

TELEPHONE 920-837-2344

\* WISCONSIN PUBLIC SERVICE CORP 2850 SOUTH ASHLAND AVE GREEN BAY, WI 54307 ATTENTION: SCOTT GAUGER E-MAIL: scott.gauger@wisconsinpublicservice.com



#### KEWAUNEE COUNTY CONTACT

E4280 COUNTY HIGHWAY F KEWAUNEE, WI 54216 ATTENTION: TODD EVERY E-MAIL: every.todd@kewauneeco.org

#### RUNOFF COEFFICIENT TABLE

		HYDROL	OGIC SOIL GROUP	<b>-</b>								
		P	4				С		D			
	SLO	PE RANG	GE (PERCENT)	SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT) SLOPE					E RANGE	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			.30 .38
PAVEMENT:								•				
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585			· · · · · · · · · · · · · · · · · · ·			
ROOFS						.7595						
GRAVEL ROADS, SI	HOULDERS	3				.4060	_			_		

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.11 ACRES SOIL GROUP A/D.

#### STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	NC	NORMAL CROWN
AC	ASPHALT CEMENT	PT	POINT OF TANGENCY
AGG	AGGREGATE	PC	POINT OF CURVATURE
ASPH	ASPHALT	PI	POINT OF INTERSECTION
BM	BENCH MARK	PE	PRIVATE ENTRANCE
C/L	CENTERLINE	R	RADIUS
CONC	CONCRETE	REM	REMOVE
CMP	CORRUGATED METAL PIPE	R/L OR RL	REFERENCE LINE
CR.	CREEK	RCCP	REINFORCED CONCRETE CULVERT PIPE
D	DEGREE OF CURVE	RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
DHV	DESIGN HOUR VOLUME	R.O.	RUNOUT
<b>ESALS</b>	EQUIVALENT SINGLE AXIS LOADS	R/W	RIGHT-OF-WAY
EXIST	EXISTING	STA	STATION
FE	FIELD ENTRANCE	SE	SUPER ELEVATION
HYD	HYDRANT	SS	STORM SEWER
IP	IRON PIPE OR PIN	T	TANGENT
L	LENGTH OF CURVE	TEL	TELEPHONE
LC	LONG CHORD OF CURVE	TLE	TEMPORARY LIMITED EASEMENT
LR	LENGTH OF RUNOFF	T	TRUCKS
MH	MANHOLE	VC	VERTICAL CURVE
		W	WELL

#### DEPARTMENT OF NATURAL RESOURCES

**WDNR** 

TELEPHONE 920-360-3784

2984 SHAWANO AVE. GREEN BAY, WISCONSIN 54313 ATTENTION: MATT SCHAEVE E-MAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

PROJECT NO: 4380-04-71 HWY: OLD SETTLERS ROAD COUNTY: KEWAUNEE **GENERAL NOTES** SHEET 1 IN:20 FT

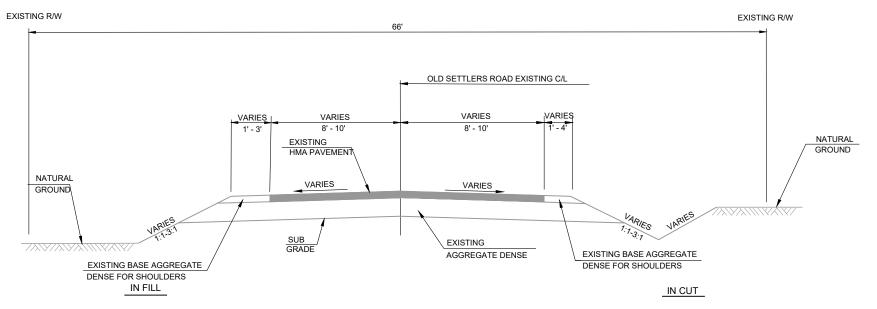
LAYOUT NAME - 020101 gn

10/27/2020 12:01 PM

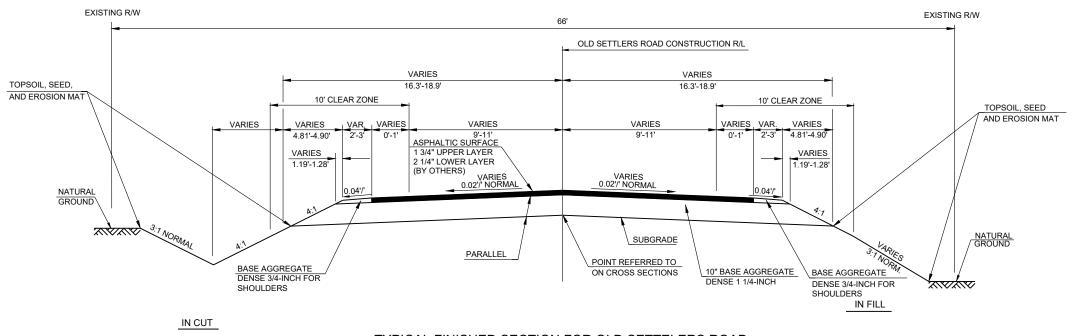
GARNICA, BRANDON

PLOT SCALE :

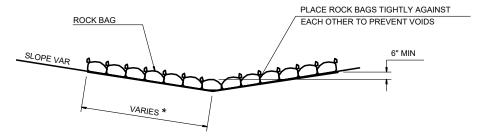




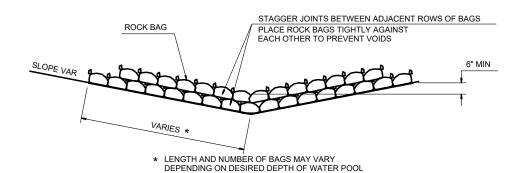
# EXISTING TYPICAL SECTION FOR OLD SETTLERS ROAD STA. 9+50 - STA. 10+50



TYPICAL FINISHED SECTION FOR OLD SETTELERS ROAD
STA. 9+50 - STA. 10+50



SIDE VIEW (SINGLE LAYER)

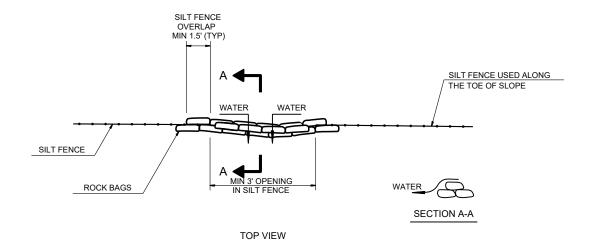


SIDE VIEW (MULTIPLE LAYER)

#### ROCK BAGS DITCH CHECK

PAID AS ROCK BAGS

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

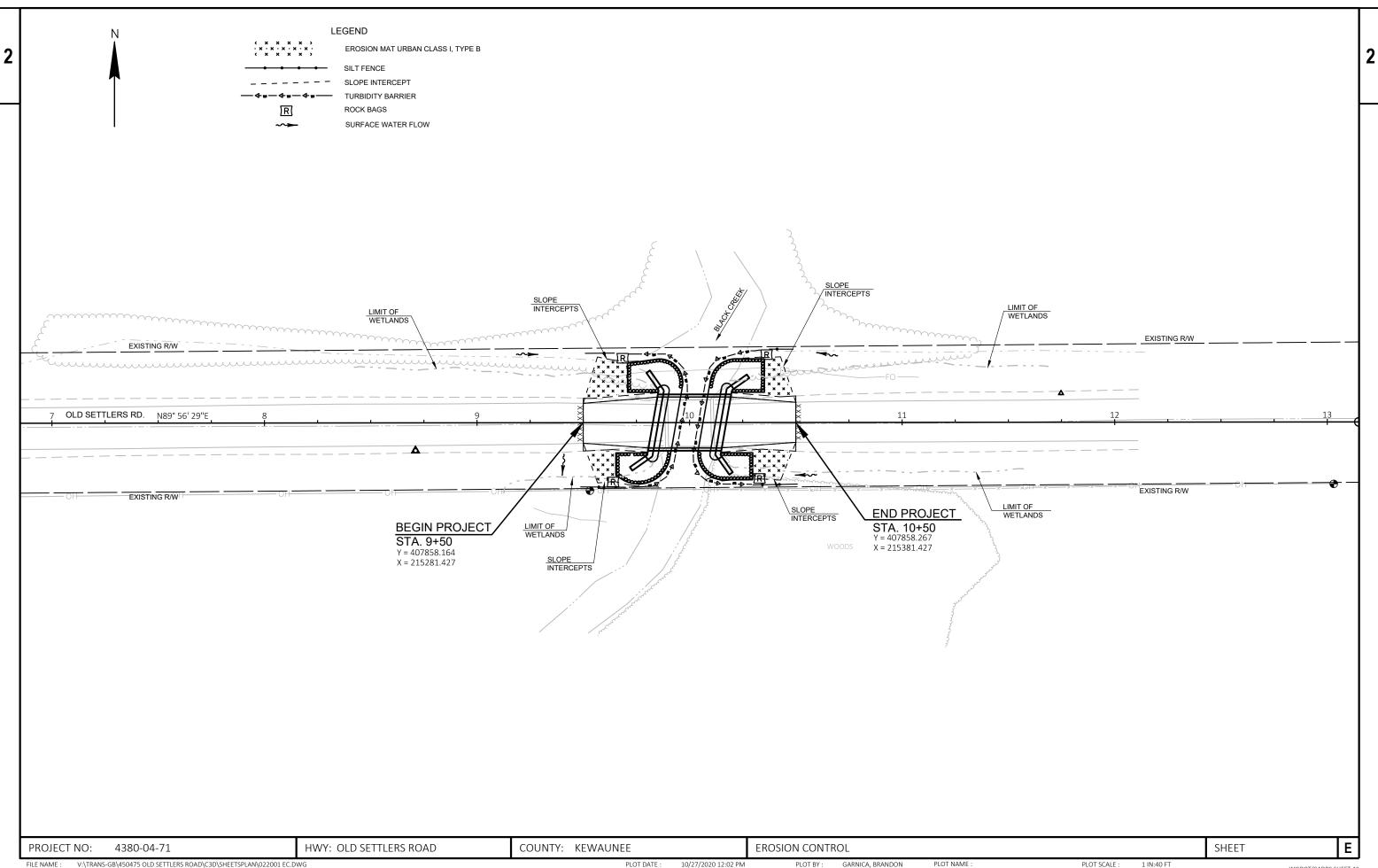


#### ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

Ε PROJECT NO: 4380-04-71 HWY: OLD SETTLERS ROAD COUNTY: KEWAUNEE CONSTRUCTION DETAILS SHEET FILE NAME : V:\TRANS-GB\450475 OLD SETTLERS ROAD\C3D\SHEETSPLAN\021001 CD.DWG 10/27/2020 12:01 PM PLOT BY: GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:200 FT



LAYOUT NAME - 022001 ec

PLOT SCALE :

WISDOT/CADDS SHEET 42

Page 1
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					4380-04-71
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
0004	201.0205	Grubbing	STA	2.000	2.000
0006	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+00	LS	1.000	1.000
8000	204.0165	Removing Guardrail	LF	60.000	60.000
0010	205.0100	Excavation Common	CY	81.000	81.000
0012	206.1000	Excavation for Structures Bridges (structure) 01. B-31-109	LS	1.000	1.000
0014	210.1500	Backfill Structure Type A	TON	270.000	270.000
0016	213.0100	Finishing Roadway (project) 01. 4380-04-71	EACH	1.000	1.000
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	11.000	11.000
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	130.000	130.000
0022	502.0100	Concrete Masonry Bridges	CY	109.000	109.000
0024	502.3200	Protective Surface Treatment	SY	120.000	120.000
0026	505.0400	Bar Steel Reinforcement HS Structures	LB	4,240.000	4,240.000
0028	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	13,000.000	13,000.000
0030	513.4061	Railing Tubular Type M	LF	73.000	73.000
0032	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000
0034	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	455.000	455.000
0036	606.0300	Riprap Heavy	CY	140.000	140.000
0038	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000
0040	619.1000	Mobilization	EACH	1.000	1.000
0042	624.0100	Water	MGAL	1.500	1.500
0044	625.0100	Topsoil	SY	130.000	130.000
0046	628.1504	Silt Fence	LF	100.000	100.000
0048	628.1520	Silt Fence Maintenance	LF	200.000	200.000
0050	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0050	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0052	628.2008	Erosion Mat Urban Class I Type B	SY	95.000	95.000
0054	628.6005	Turbidity Barriers	SY	160.000	160.000
	628.7570	•	EACH		
0058		Rock Bags		75.000	75.000
0060	630.0120	Seeding Mixture No. 20	LB	3.100	3.100
0062	630.0200	Seed Water	LB	3.100	3.100
0064	630.0500	Seed Water	MGAL	4.000	4.000
0066	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
8800	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	1.000	1.000
0070	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0072	638.2102	Moving Signs Type II	EACH	2.000	2.000
0074	638.2602	Removing Signs Type II	EACH	8.000	8.000
0076	638.3000	Removing Small Sign Supports	EACH	9.000	9.000

**Estimate Of Quantities** 

# Estimate Of Quantities Page 2

4380-04-71

Line	Item	Item Description	Unit	Total	Qty
0078	642.5001	Field Office Type B	EACH	1.000	1.000
0800	643.0420	Traffic Control Barricades Type III	DAY	1,242.000	1,242.000
0082	643.0705	Traffic Control Warning Lights Type A	DAY	1,932.000	1,932.000
0084	643.0900	Traffic Control Signs	DAY	966.000	966.000
0086	643.5000	Traffic Control	EACH	1.000	1.000
8800	645.0111	Geotextile Type DF Schedule A	SY	100.000	100.000
0090	645.0120	Geotextile Type HR	SY	285.000	285.000
0092	650.4500	Construction Staking Subgrade	LF	60.000	60.000
0094	650.5000	Construction Staking Base	LF	60.000	60.000
0096	650.6500	Construction Staking Structure Layout (structure) 01. B-31-109	LS	1.000	1.000
0098	650.9910	Construction Staking Supplemental Control (project) 01. 4380-04-71	LS	1.000	1.000
0100	650.9920	Construction Staking Slope Stakes	LF	60.000	60.000
0102	690.0150	Sawing Asphalt	LF	38.000	38.000
0104	715.0502	Incentive Strength Concrete Structures	DOL	654.000	654.000

#### EARTHWORK SUMMARY

Division	From/To Station	Location	Common Excavation (item #205.0100) Cut (2)	Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (13) Factor 1.30	Mass Ordinate +/- (14)	Waste	Comment:
1	9+50 - 10+50	OLD SETTLERS ROAD	81	18	63	26	34	29	-29	
Division 1 Totals			81	18	63	26	34	29	-29	

- 2) Unsuable Pavement Material is included in Cut
- 4) Unusable Pavement Material = Existing Asphaltic Pavement. Backfill any areas below subgrade with borrow.
- 5) Available Material = Cut Unusuable Pavement Material
- 13) Expanded Fill. Factor = 1.3 Expanded Fill = Unexpanded Fill \* Fill Factor
- 14) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

#### CLEARING AND GRUBBING BASE AGGREGATE DENSE

STATION	то	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	STATION	то	STATION	LOCATION	204.0165 LF	STATION	TO	STATION	LOCATION	305.0110 BASE AGG. 3/4-INCH	305.0120 BASE AGG. 1 1/4-INCH	624.0100 WATER
				SIA	SIA	9+70	_	9+84	OLD SETTLERS ROAD, LT	15	STATION	10	STATION	LOCATION	TON	TON	MGAL
9+00	-	11+00	OLD SETTLERS ROAD	2	2	9+71	-	9+85	OLD SETTLERS ROAD, RT	15							
						10+15	-	10+29	OLD SETTLERS ROAD, LT	15	9+50	-	9+83	OLD SETTLERS ROAD	5	65	0.7
٦	OTALS	S		2	2	10+15	-	10+29	OLD SETTLERS ROAD, RT	15	10+17	-	10+50	OLD SETTLERS ROAD	6	65	0.8
							TOTAL	_		60	-	TOTAL	S		11	130	1.5

#### ASPHALT ITEMS (BY OTHERS)

STATION	то	STATION	LOCATION	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON
9+50 10+17	-	9+83 10+50	OLD SETTLERS ROAD OLD SETTLERS ROAD	4.7 4.7	18 18
	TOTAL:	S		9.3	36

#### NOTE: WORK TO BE COMPLETED BY KEWAUNEE COUNTY

#### TOPSOIL AND SEED

STATION	то	STATION	LOCATION	625.0100 TOPSOIL SY	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
9+50	-	9+83	OLD SETTLERS ROAD, LT	33	0.6	0.6	1.0
9+50	-	9+83	OLD SETTLERS ROAD, RT	23	0.6	0.6	0.7
10+17	-	10+50	OLD SETTLERS ROAD, LT	22	0.6	0.6	0.6
10+17	-	10+50	OLD SETTLERS ROAD, RT	26	0.7	0.7	0.7
UNDISTRIBUTED		JTED	ENTIRE PROJECT	26	0.6	0.6	1.0

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

	PROJECT NUMBER: 4378-04-71	HWY:	OLD SETTLERS RD	COUNTY:	KEWAUNEE	MISCELLANEOUS QUANTITIES	L SHEET:	E
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SHEET:

			SILT FENCE					MOBILIZ	ATIONS EROSION CO	<u>ONTROL</u>					EROSION MAT			
	STATION		LOCATION	628.1504 SILT FENC LF	CE MAINT	3.1520 FENANCE LF		LOCATION	628.1905 MOBILIZATIONS EROSION CONROL	EROSION CONTI	,	STATION	ТО	STATION		LOCATION	URE	628.200 BAN CLA TYPE B SY
9+50 - 9+50 - 10+17 - 10+17 -	9+83 9+83 10+50 10+50	OLD SE OLD SE OLD SE	ETTLERS ROAD, LT ETTLERS ROAD, RT ETTLERS ROAD, LT ETTLERS ROAD, RT NDISTRIBUTED	20 20 20 20 20 20		40 40 40 40 40		OLD SETTLERS ROAD	EACH 5	3 3	<u> </u>	9+50 9+50 10+17 10+17	- - -	9+83 9+83 10+50 10+50	OLD S OLD S	SETTLERS ROAL SETTLERS ROAL SETTLERS ROAL SETTLERS ROAL	D, RT D, LT D, RT	26 14 17 18
TOTALS				100	2	200							DISTRIBUT TOTAL	ED	E	ENTIRE PROJECT		20 95
				<u>TUR</u>	BIDITY BAR	RIERS					ROCK BAG							
			STATI	ION	LOCA	TION	628.6005 SY	<del>-</del> -		STATION	LOCATIO	DN 628.	7570					
			WEST ABL EAST ABL	UTMENT (	OLD SETTLE OLD SETTLE		78 82	_		9+76 9+76 10+17	OLD SETTLERS FOR S	ROAD, RT 1	5 5 5					
			TOTA	٩L			160			10+17 UNDISTRIBUTE	OLD SETTLERS F	ROAD, RT 1	5 5					
										TOTAL		7	75					
			<u>REMO\</u>	VING SIGNS	& SUPPORT	<u> </u>				TOTAL		7	75					
STATIC	DN		<u>REMO\</u> LOCATION		638.2602 SIGNS TYPE II EACH	638.300 SMALL S SUPPOR EACH	IGN TS	REMA RKS		TOTAL				/ETYPE II /	AND WO	OOD POSTS		
	ROJECT L	OLI		DAD D, RT LT & RT	638.2602 SIGNS TYPE II	638.300 SMALL S SUPPOR	IGN TS	REMARKS  NE BRIDGE AND LOAD POINTERSECTION OBJECT MARKERS OBJECT MARKERS	STING	TOTAL	STATION		REFLECTI	634. WOOD 4"x6	.0612 POSTS 5"x12'	634.0618 S WOOD POSTS 4"x6"x18'	SI W5-52L	7.2230 IGNS W5
WEST AND EAST PF 9+57 9+76	ROJECT L	OLI	LOCATION  OLD SETTLERS ROAD DLD SETTLERS ROAD DSETTLERS ROAD, I	DAD D, RT LT & RT	638.2602 SIGNS TYPE II EACH 4	638.300 SMALL S SUPPOR EACH 4 1 2	IGN TS	NE BRIDGE AND LOAD PO INTERSECTION OBJECT MARKERS	STING		9+57 NW QUADRANT SW QUADRANT NE QUADRANT	<u>SIGNS</u>	FION  S ROAD, I	634. WOOD 4"x6 EA RT _T RT	.0612 POSTS	634.0618 S WOOD POSTS	SI	IGNS
WEST AND EAST PF 9+57 9+76 10+23	ROJECT L	OLI	LOCATION  OLD SETTLERS ROAD  DLD SETTLERS ROAD, I  D SETTLERS ROAD, I	DAD D, RT LT & RT	638.2602 SIGNS TYPE II EACH  4 - 2 2 8	638.300 SMALL S SUPPOR EACH 4 1 2 2	IGN TS	NE BRIDGE AND LOAD PO INTERSECTION OBJECT MARKERS	STING		9+57 NW QUADRANT SW QUADRANT	LOCA  OLD SETTLER OLD SETTLER OLD SETTLER OLD SETTLER	FION  S ROAD, I	634. WOOD 4"x6 EA RT _T RT _T RT	.0612 POSTS 5"x12'	634.0618 S WOOD POSTS 4"x6"x18'	SH W5-52L SF - - 3 - -	IGNS W5
WEST AND EAST PF 9+57 9+76 10+23 TOTAL	ROJECT L	OLI OLI	LOCATION  OLD SETTLERS ROAD  DLD SETTLERS ROAD, I  D SETTLERS ROAD, I	DAD D, RT LT & RT LT & RT	638.2602 SIGNS TYPE II EACH  4 - 2 2 8	638.300 SMALL S SUPPOR EACH 4 1 2 2	IGN TS	NE BRIDGE AND LOAD PO INTERSECTION OBJECT MARKERS	STING		9+57 NW QUADRANT SW QUADRANT NE QUADRANT SE QUADRANT SUBTOTALS	LOCA  OLD SETTLER OLD SETTLER OLD SETTLER OLD SETTLER	FION  S ROAD, I	634. WOOD 4"x6 EA RT _T RT _T RT	.0612 D POSTS "X12' ACH - 1 1 1	634.0618 S WOOD POSTS 4"x6"x18' EACH 1 - -	SI W5-52L SF - 3 - - 3	IGNS W5
WEST AND EAST PF 9+57 9+76 10+23 TOTAL	ROJECT L	OLT OLT	LOCATION  OLD SETTLERS ROAD DISETTLERS ROAD, I	DAD D, RT LT & RT LT & RT	638.2602 SIGNS TYPE II EACH  4 - 2 2 8	638.300 SMALL S SUPPOR EACH 4 1 2 2 9	IGN TS ONE LA	NE BRIDGE AND LOAD PO INTERSECTION OBJECT MARKERS	STING		9+57 NW QUADRANT SW QUADRANT NE QUADRANT SE QUADRANT SUBTOTALS	LOCA  OLD SETTLER OLD SETTLER OLD SETTLER OLD SETTLER OLD SETTLER	FION  S ROAD, I	634. WOOD 4"x6 EA RT _T RT _T RT	.0612 D POSTS "X12' ACH - 1 1 1 1	634.0618 S WOOD POSTS 4"x6"x18' EACH 1 - - -	SI W5-52L SF - 3 - - 3	IGNS W

COUNTY: KEWAUNEE

MISCELLANEOUS QUANTITIES

HWY: OLD SETTLERS RD

PROJECT NUMBER: 4378-04-71

### 3

#### TRAFFIC CONTROL SUMMARY

LOCATION	APPROXIMATE SERVICE DAYS	NO. IN	CADES E III	643.0 WARNING TYPE NO. IN SERVICE	LIGHTS A	643.09 SIGN NO. IN SERVICE	S	REMARKS
OLD SETTLERS RD / CTH V	69	2	138	4	276	2	138	BRIDGE OUT 0.8 MILES AHEAD - SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL C
WEST OF WORK ZONE LIMITS	69	2	138	4	276	4	276	SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL C
WEST WORK ZONE LIMITS	69	5	345	6	414	1	69	SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL D
EAST WORK ZONE LIMITS	69	5	345	6	414	1	69	SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL D
EAST OF WORK ZONE LIMITS	69	2	138	4	276	4	276	SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL C
OLD SETTLERS RD / SCHWEINER RD	69	2	138	4	276	2	138	BRIDGE OUT 0.2 MILES AHEAD - SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL C
TOTALS			1,242		1,932		966	

#### CONSTRUCTION STAKING

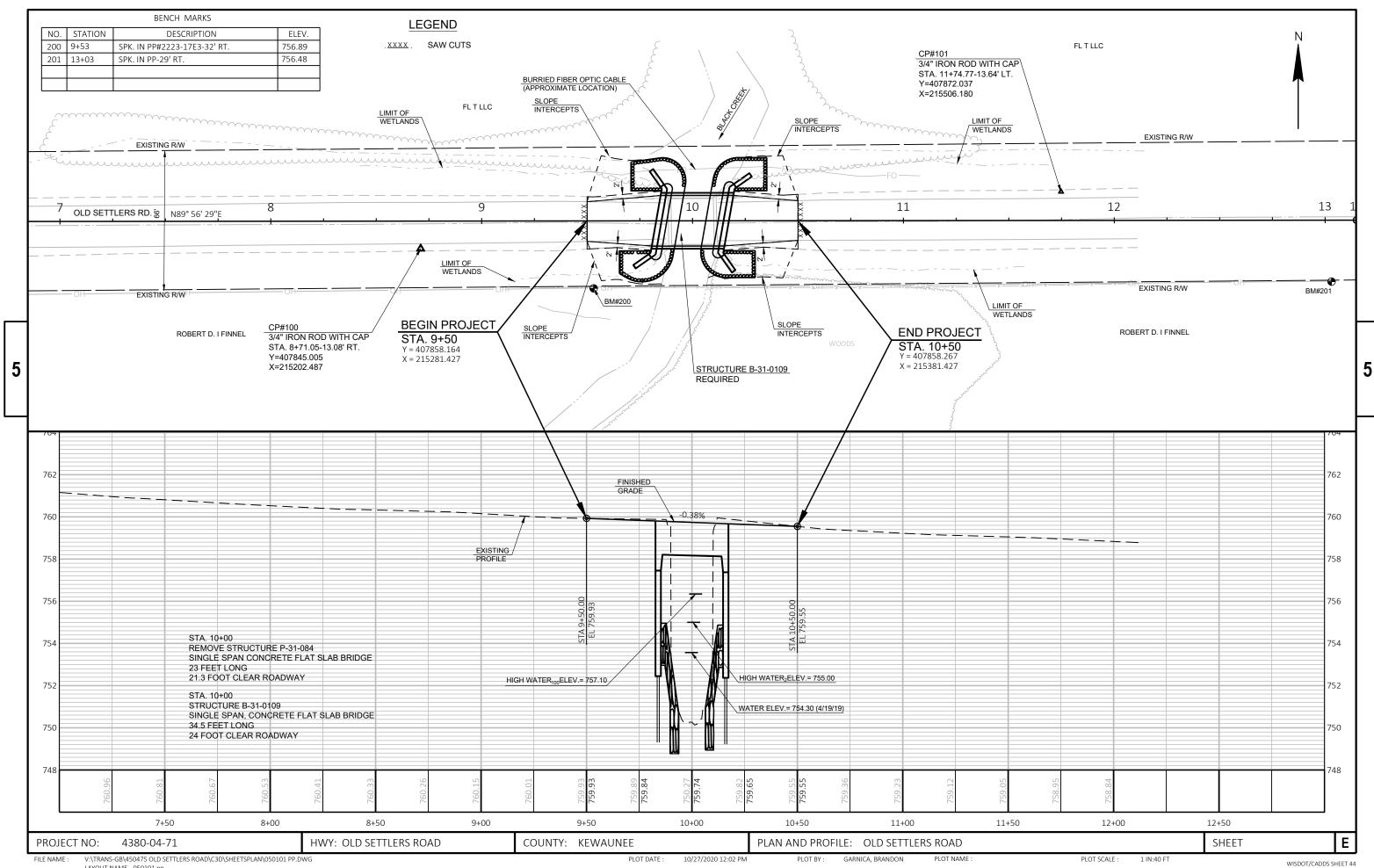
STATION	LOCATION	690.0150 LF
9+50 10+50	OLD SETTLERS ROAD OLD SETTLERS ROAD	19 19
TOTAL		38

SAWING ASPHALT

CATEGORY	STATION	9+50 - 9+83 ( 10+23 - 10+50 (		LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.6500 STRUCTURE LAYOUT B-31-0109 LS	650.9910 SUPPLEMENTAL CONTROL 4380-04-71 LS	650.9920 SLOPE STAKES LF
0010 0010				OLD SETTLERS RD OLD SETTLERS RD		33 27	- -	1 -	33 27
0010	SU	BTOTA	LS		60	60	0	1	60
0020		10+00		B-31-0109	-	-	1	-	-
0020	SU	BTOTA	LS		0	0	1	0	0
	Т	OTAL	S		60	60	1	1	60

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

PROJECT NUMBER: 4378-04-71 HWY: OLD SETTLERS RD COUNTY: KEWAUNEE MISCELLANEOUS QUANTITIES SHEET: E



# Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

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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)

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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#### **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  $\infty$ 

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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

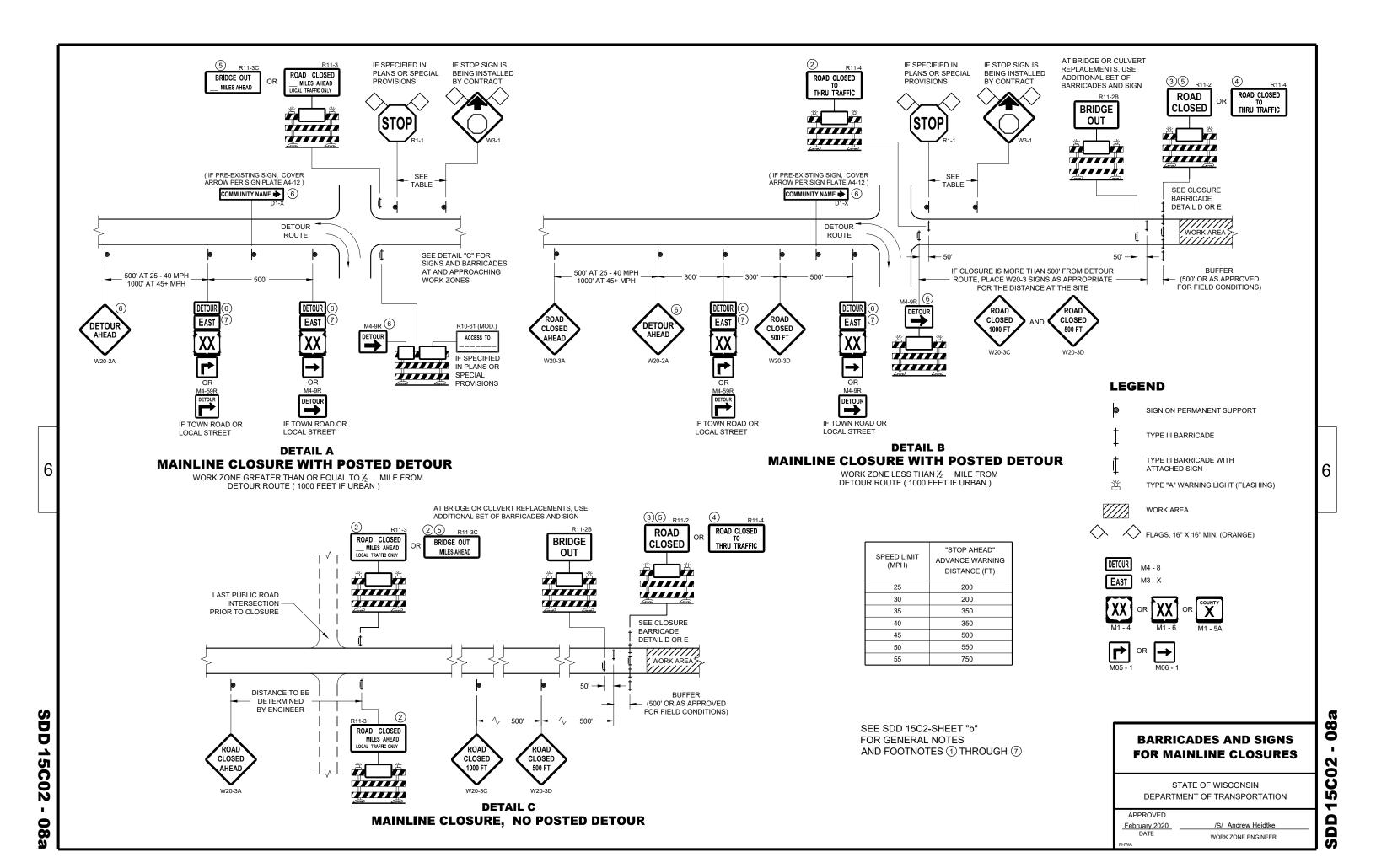
|--|

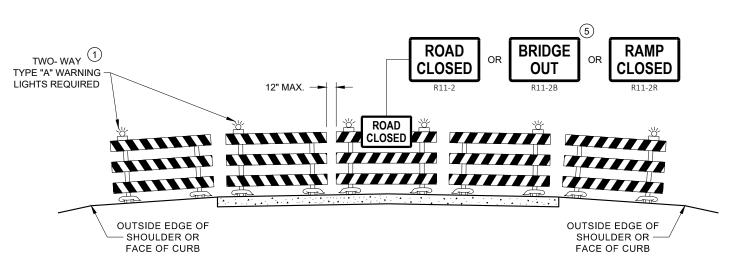
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

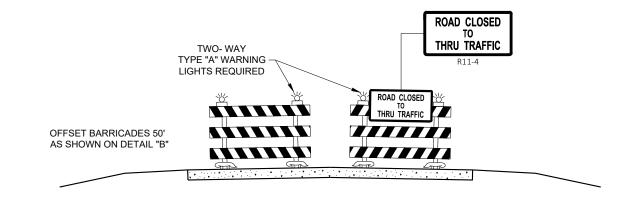
D.D. 12 A

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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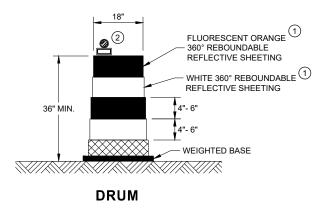
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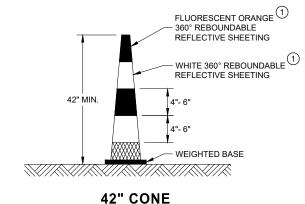


# **SDD 15C11**

#### **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.



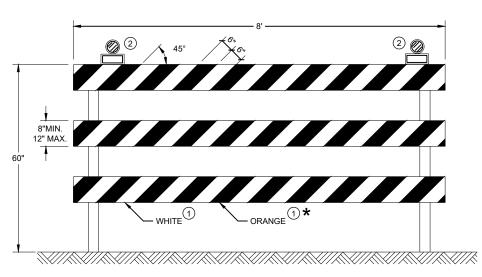


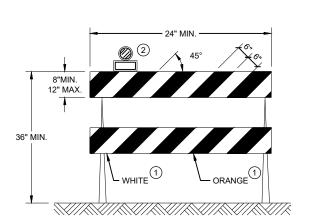


THE STRIPES SHALL SLOPE DOWNWARD TO

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	MENTS	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

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- 11/2" DIAMETER HOLES

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017
DATE

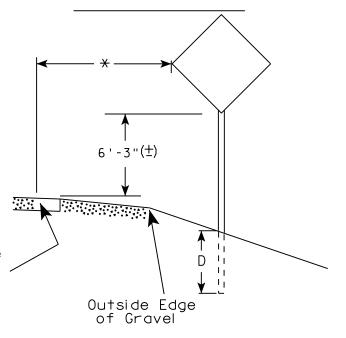
# urban area

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

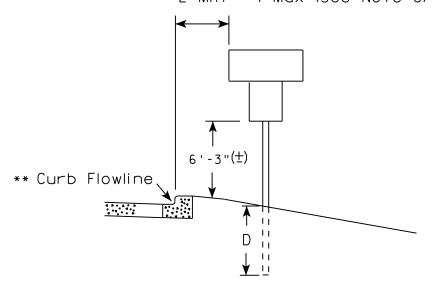
\*\* Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

PLOT DATE: 21-AUG-2017 16:04

\*\* 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.

POST EMBEDMENT DEPTH

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

\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

#### GENERAL NOTES

- 1. Signs wider than 4 feet or 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"  $(\pm)$  or 6'-3"  $(\pm)$  depending upon existence of a sub-sign.
- 4. J-Assemblies are considered to be one sign for mounting height.
- 5. Minimum mounting height for signs mounted on traffic signal poles is  $5'-3''(\pm)$ .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The  $(\pm)$  tolerance for mounting height is 3 inches.
- 8. Folding 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" (±).

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

SHEET NO:

PROJECT NO:

HWY:

COUNTY:

NTY:

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE : 100.601251:1.000000



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:

| | |



#### NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

C —		<b>\</b>
D A E A		$ \begin{array}{c c} G & \hline  & F & \hline  & B & \hline  & G & G & G & \hline  & G & G & G & \hline  & G & G & G & G & \hline  & G & G & G & G & G & G \\  & G & G & G & G & G & G & G $
	R11-2B	

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areg sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
2M	48	30	1 %	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
4	48	30	1 %	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2B.2

SHEET NO:

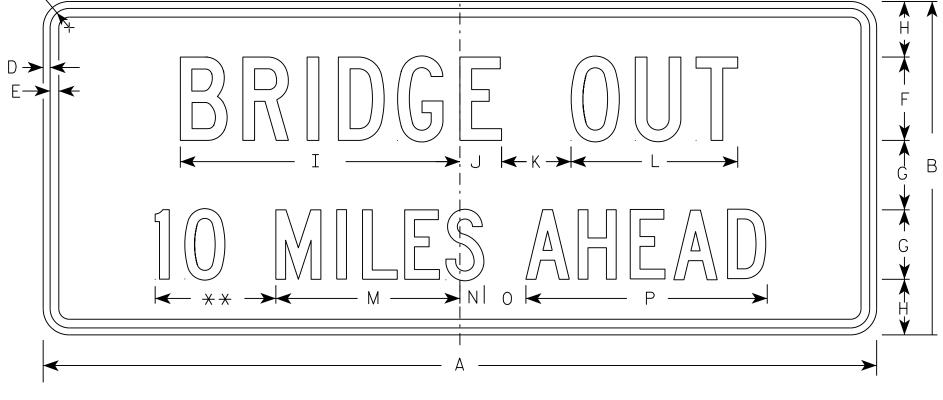
PROJECT NO:



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3C

\*\* See Note 5

1/4 MILF AH

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	L	М	N	0	Р	Q	R	S	Т	C	٧	W	Х	Υ	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 ¾		7 1/8									3.75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
3																											
4																											
5																											

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

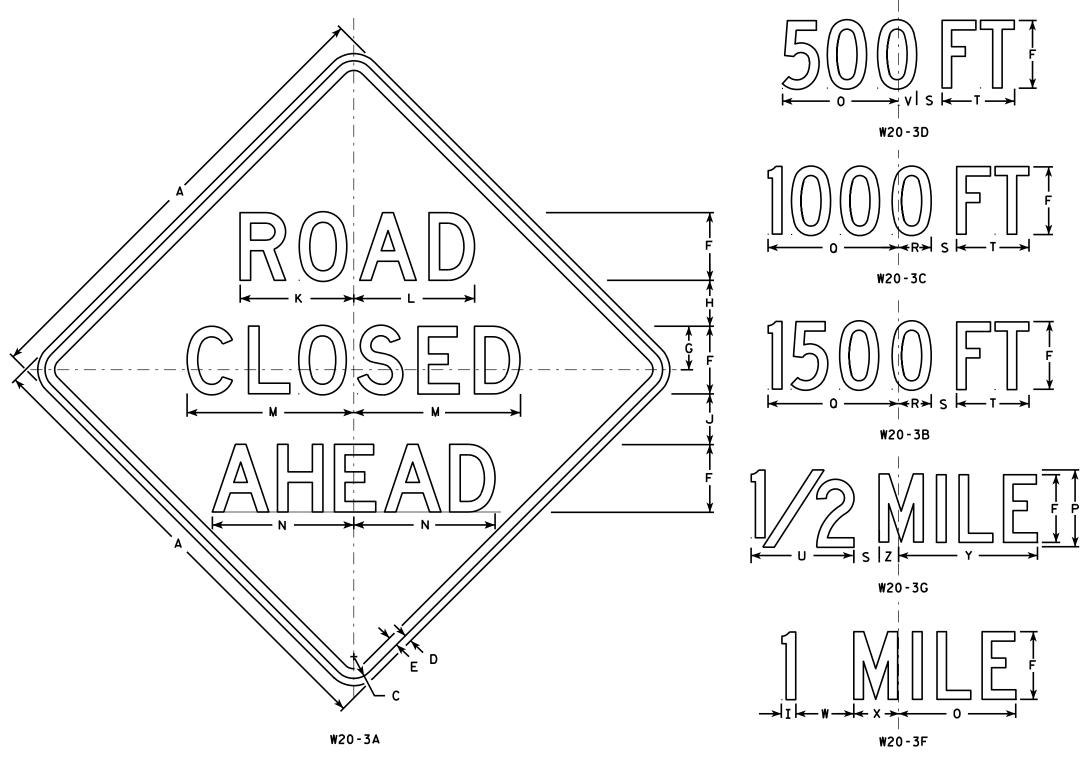
DATE <u>7/28/16</u>

PLATE NO. R11-3C.3

SHEET NO:

PROJECT NO:





#### NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

1 % 5/8 ¾ 8 3/8 8 7/8 12 1/2 5 % 1 3/8 4 1/2 36 3 1/2 10 3/4 1 3/4 8 4 \( \frac{5}{8} \) 14 \( \frac{3}{8} \) 2 \( \frac{3}{8} \) 16.0 3/4 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 7 1/2 10 5/8 1 7/8 2M 3/4 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 48 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 7 1/2 10 % 1 % 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 3/4 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 4 % | 14 % | 2 % | 16.0 48 3/4 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 13 1/2 3 3/8 2 5/8 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 7 1/2 10 5/8 1 7/8 48 5 4 5/8 14 3/8 2 3/8 16.0 3/4 2 1/4 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 48

COUNTY:

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11

PLATE NO. W20-3.7

SHEET NO:

PROJECT NO: FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W203.DGN HWY:

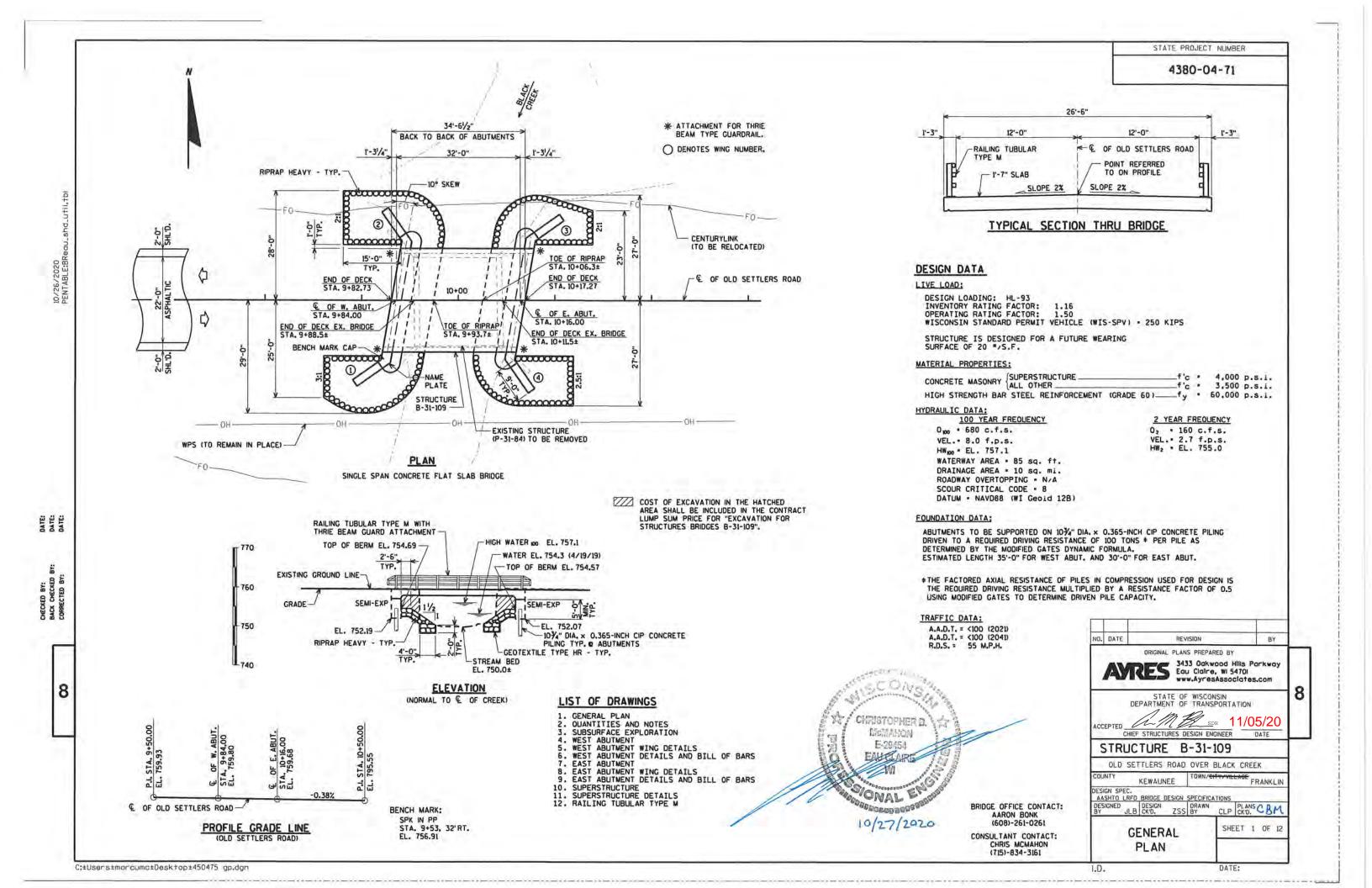
PLOT DATE: 18-MAR-2011 12:08

PLOT BY: mscj9h

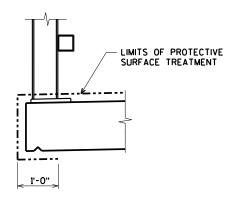
PLOT NAME :

PLOT SCALE: 9.931739:1.000000

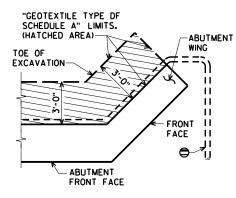
WISDOT/CADDS SHEET 42



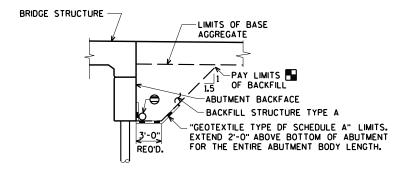
BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-31-109	LS				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	135	135		270
502.0100	CONCRETE MASONRY BRIDGES	CY	25	25	59	109
502.3200	PROTECTIVE SURFACE TREATMENT	SY			120	120
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2.120	2,120		4,240
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1.320	1,320	10.360	13,000
513.4061	RAILING TUBULAR TYPE M	LF			73	73
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6	6	!	12
550.2106	PILING CIP CONCRETE 10¾ × 0.365-INCH	LF	245	210	:	455
606.0300	RIPRAP HEAVY	CY	70	70	!	140
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75	75	!	150
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	50	50	:	100
645.0120	GEOTEXTILE TYPE HR	SY	145	140	:	285
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/4"
						·



#### PROTECTIVE SURFACE TREATMENT DETAIL

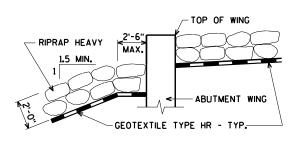


#### BACKFILL STRUCTURE LIMITS ABUTMENT PLAN WITH WING



#### BACKFILL STRUCTURE LIMITS

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



TYPICAL FILL SECTION AT WING TIPS

#### **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE. JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR

A.A.S.H.T.O. DESIGNATION M 213. THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-31-109" SHALL BE THE EXISTING GROUNDLINE.

THE EXISTING STRUCTURE, P-31-84, TO BE REMOVED, IS A SINGLE SPAN CONCRETE FLAT SLAB BRIDGE ON CONCRETE ABUTMENTS, 21.5 FT. LONG WITH A 21.75 FT. CLEAR ROADWAY WIDTH.

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 TYPE A.

PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED AS SHOWN IN DETAIL ON THIS SHEET.

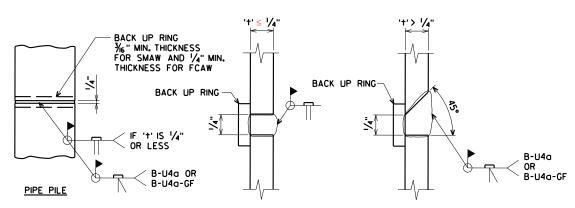
BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED

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.

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 EXCAVATIONS FOR STRUCTURES.

EXISTING SUBSTRUCTURE LOCATIONS ARE BASED ON SURVEY. REMOVE EXISTING SUBSTRUCTURES AS NEEDED TO BUILD NEW SUBSTRUCTURES. COST OF REMOVAL IS CONSIDERED INCIDENTAL TO THE "REMOVING OLD STRUCTURE OVER WATERWAY STATION 10+00" ITEM.

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



#### PILE SPLICE DETAIL

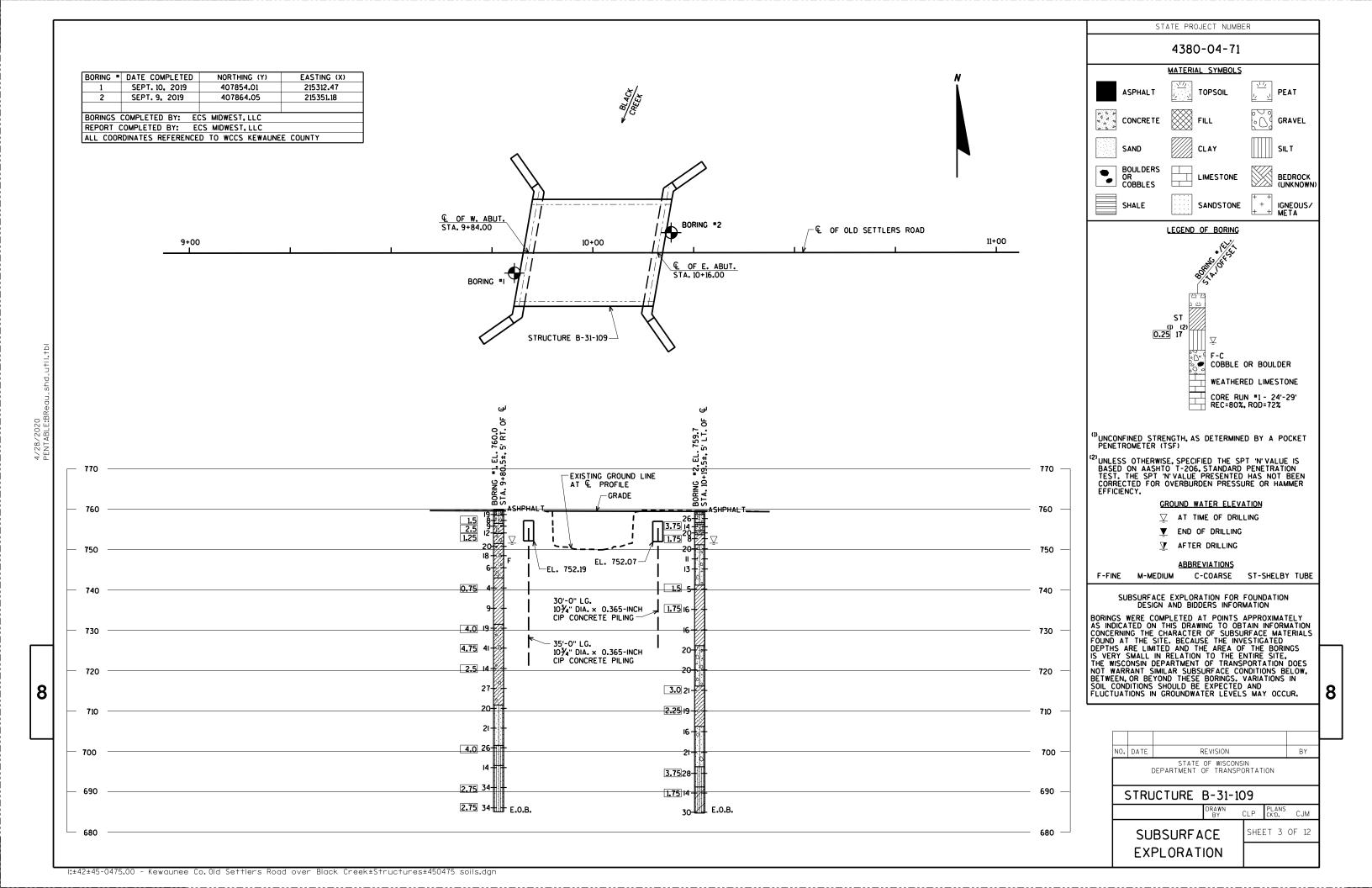
CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. CIP PILE WELD DETAIL

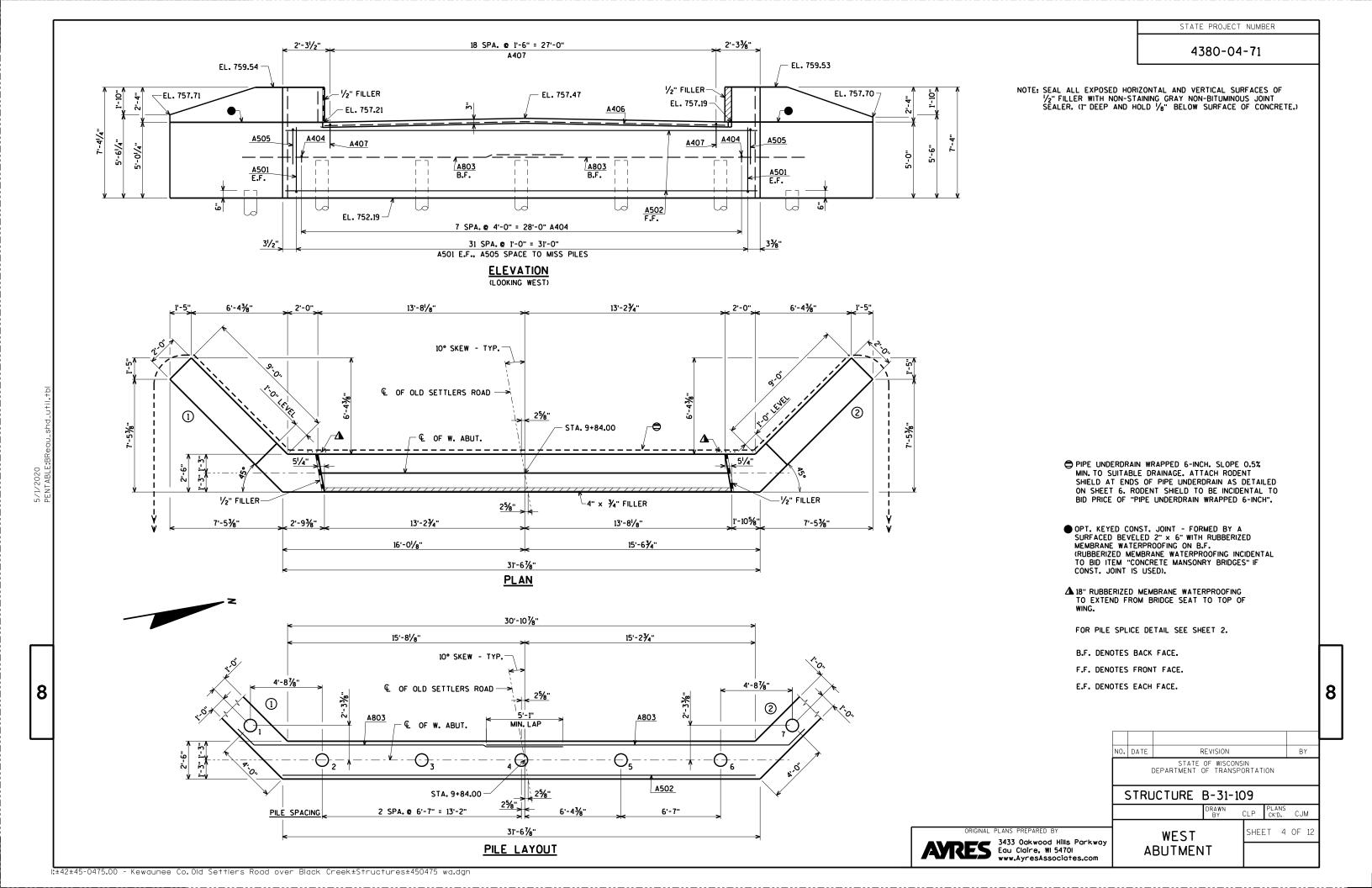
REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-31-109 CLP PLANS CK'D. CJM SHEET 2 OF 12 QUANTITIES

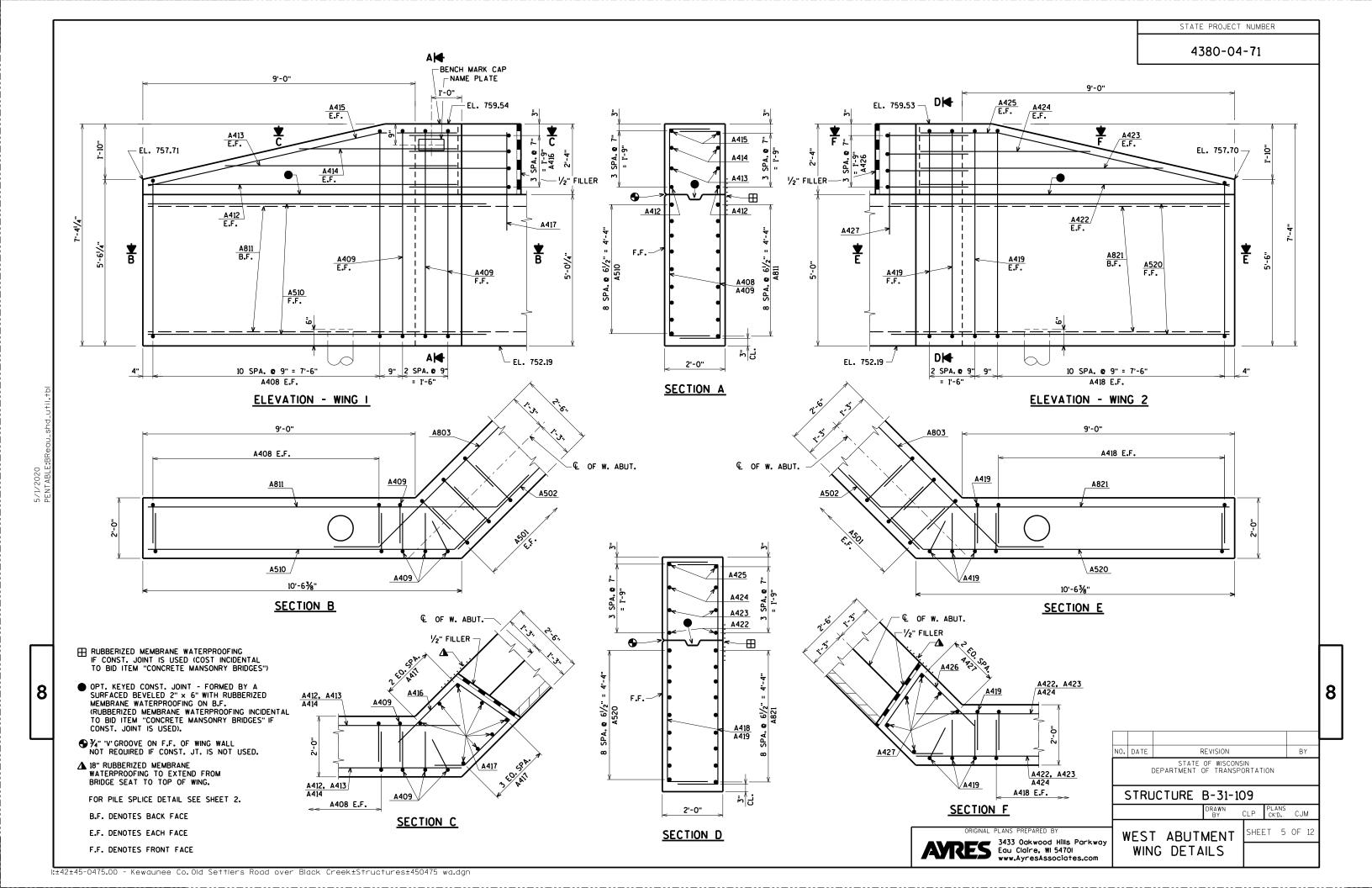
AND NOTES

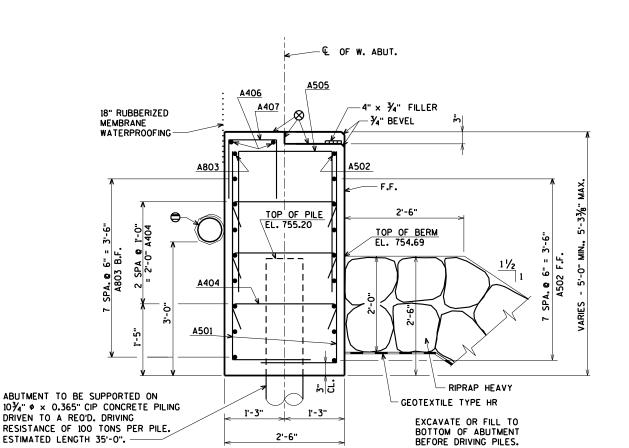
8

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



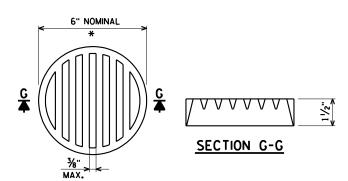






#### TYPICAL SECTION THRU BODY

OTE: DO NOT PLACE FILL ABOVE THREE FEET FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE

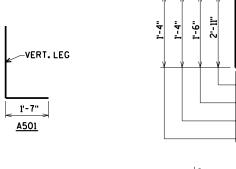


\* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

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

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

#### RODENT SHIELD DETAIL



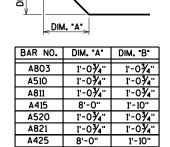


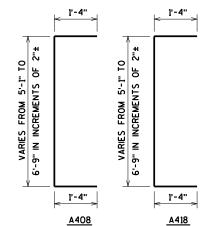
2'-2" A505

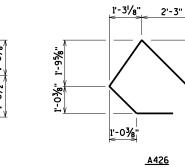
11" A407

6'-11" A409

6'-11" A419







# <u>A416</u>

1'-95%"

2'-3"

- ⊗ STEEL TROWEL TOP SURFACE OF ABUTMENT.
  PLACE MULTIPLE LAYERS OF POLYETHYLENE
  SHEETS OVER ENTIRE ABUTMENT TOP BEFORE
  PLACING SUPERSTRUCTURE. TOTAL THICKNESS
  OF SHEETS SHALL BE AT LEAST 0.03".
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5%
  MIN. TO SUITABLE DRAINAGE. ATTACH RODENT
  SHIELD AT ENDS OF PIPE UNDERDRAIN. FOR
  RODENT SHIELD SEE DETAIL ON THIS SHEET.

FOR PILE SPLICE DETAIL SEE SHEET 2.

- B.F. DENOTES BACK FACE.
- F.F. DENOTES FRONT FACE.
- E.F. DENOTES EACH FACE.

4380-04-71

STATE PROJECT NUMBER

#### BILL OF BARS

0	D BAR	NO. REO'D.	LENGTH	BAR	BUNDLED	SERIES	1,320" COATED 2,120" UNCOATED
BAR	COATED	NO. R	LEN	BENT	BUNC	BAR S	LOCATION
A501		64	5-9				BODY VERT. E.F.
A502		9	31-4				BODY HORIZ. F.F.
A803		18	22-0				BODY HORIZ. B.F.
A404		24	2-9				BODY TIES
A505		32	7-9	Х			BODY VERT. TOP
A406		2	27-6				BODY HORIZ. @ TOP NOTCH
A407		19	3-9	Х			BODY VERT. @ TOP NOTCH
A408	X	22	8-5			⊗	WING 1 VERT. E.F.
A409	X	4	9-5	Х			WING 1 VERT. E.F.
A510	X	9	11-7	X	Г	Г	WING 1 HORIZ. F.F.
A811	X	9	13-2	X	Г	Г	WING 1 HORIZ. B.F.
A412	X	2	10-3	Г	Г	Г	WING 1 HORIZ. E.F.
A413	X	2	7-10	Г	Г	Г	WING 1 HORIZ. E.F.
A414	X	2	4-10	Г	Г	Г	WING 1 HORIZ. E.F.
A415	X	2	10-6	X	Г	Г	WING 1 DIAG. E.F.
A416	X	4	8-10	X	Г	Г	WING 1 HORIZ.
A417	X	8	3-8	Г	Г	Г	WING 1 VERT.
A418	X	22	8-5	X	Г	⊗	WING 2 VERT. E.F.
A419	X	4	9-5	X			WING 2 VERT. E.F.
A520	X	9	11-7	X	Г	Г	WING 2 HORIZ. F.F.
A821	X	9	13-2	х	Г	Г	WING 2 HORIZ. B.F.
A422	X	2	10-3	Г	Г	Г	WING 2 HORIZ. E.F.
A423	X	2	7-10	Г	Г	Г	WING 2 HORIZ. E.F.
A424	X	2	4-10	Г	Г	Г	WING 2 HORIZ. E.F.
A425	X	2	10-6	х	Г	Г	WING 2 DIAG. E.F.
A426	X	4	8-0	Х			WING 2 HORIZ.
A427	X	6	3-8				WING 2 VERT.
	Н			$\vdash$	$\vdash$	$\vdash$	

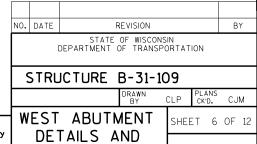
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

#### BAR SERIES TABLE

BAR MARK	NO REO'D.	LENGTH
A408	2 SERIES OF 11	7'-7" TO 9'-3"
A418	2 SERIES OF 11	7'-7" TO 9'-3"

BUNDLE AND TAG EACH SERIES SEPARATELY.

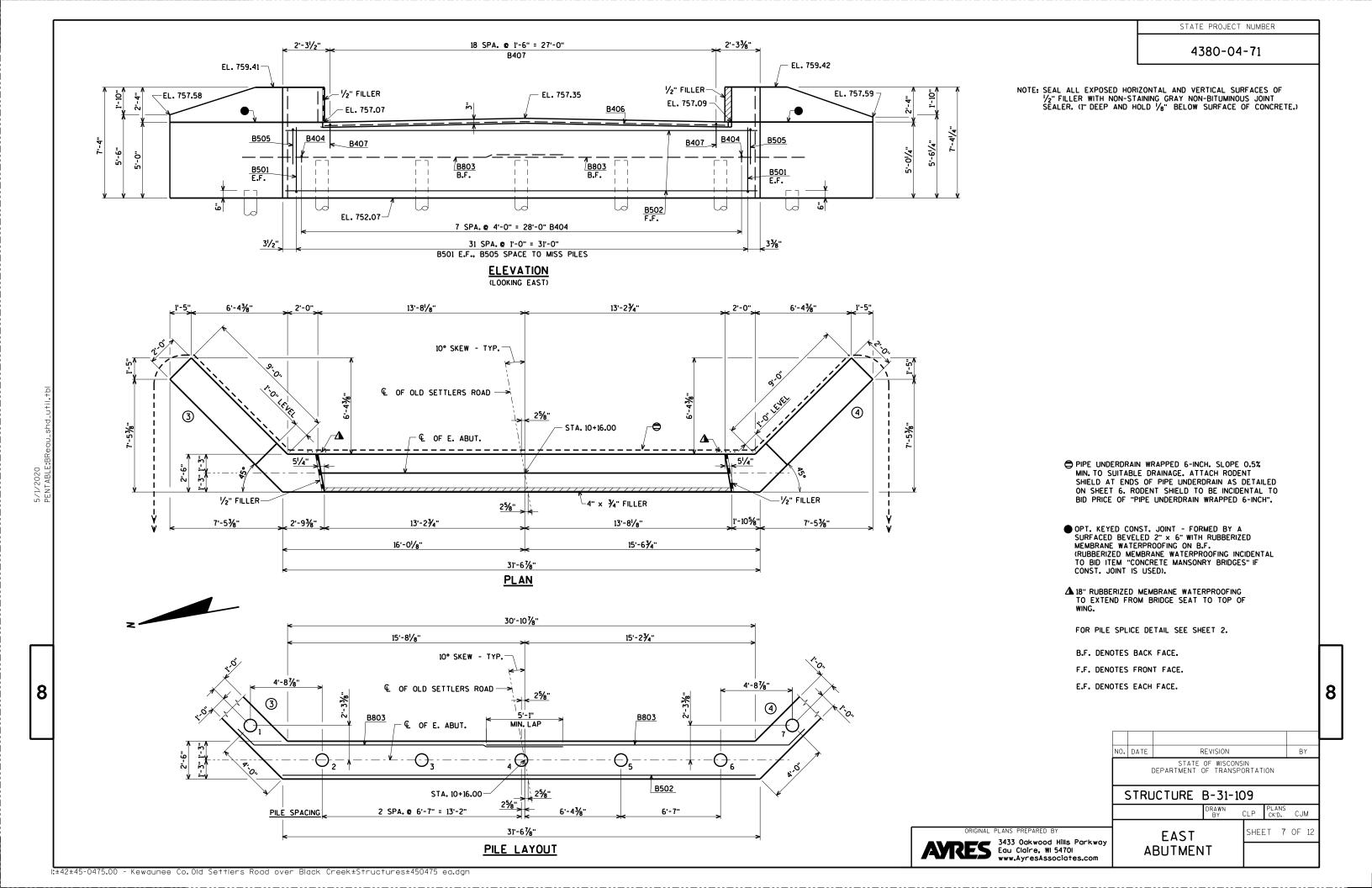


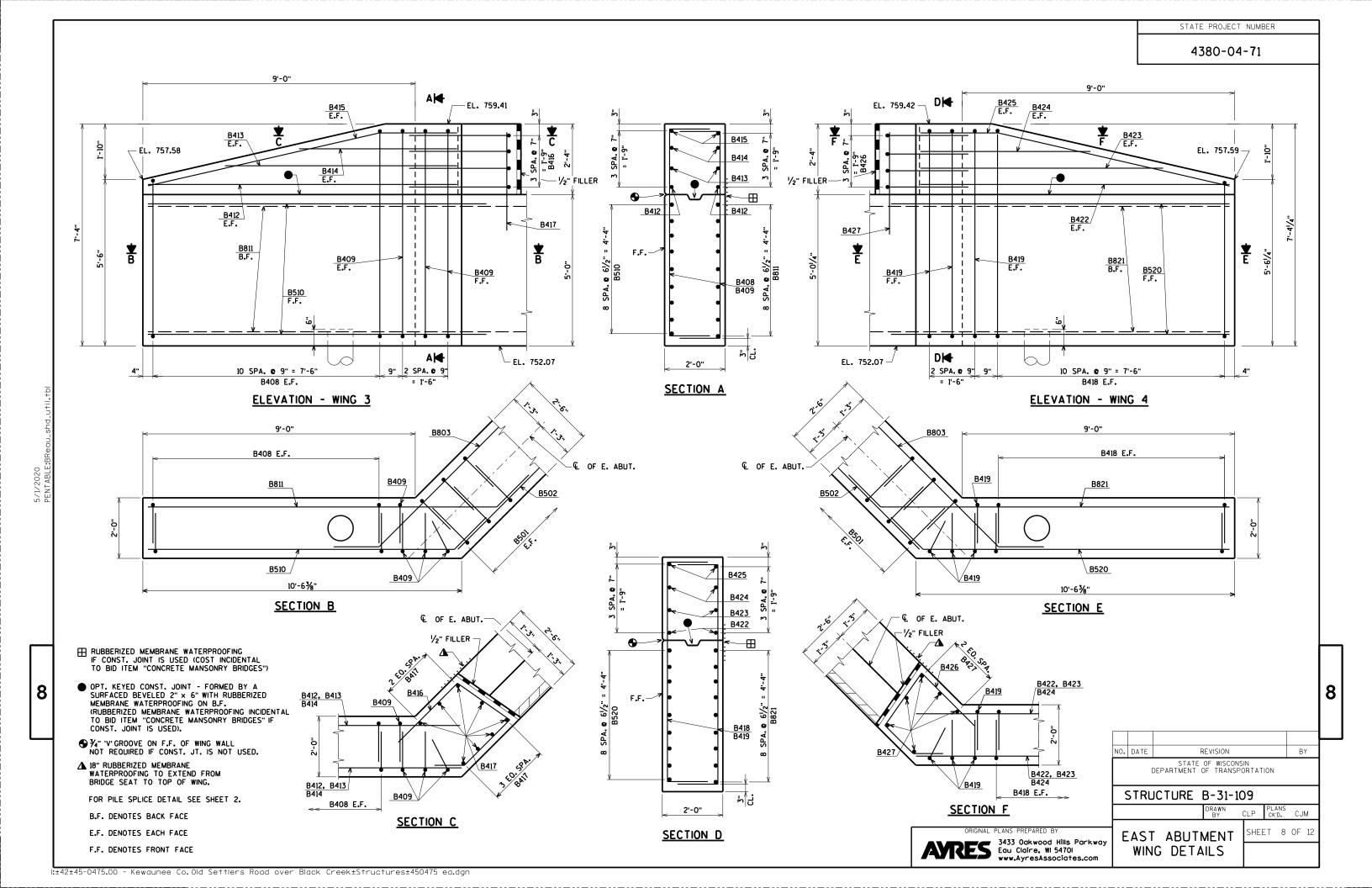
BILL OF BARS

8

ARES

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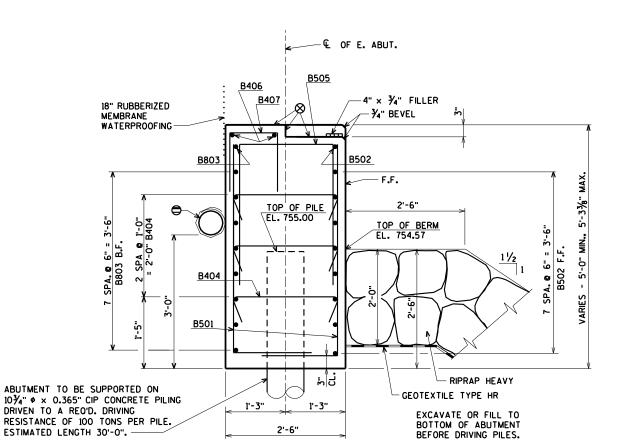


ESTIMATED LENGTH 30'-0".





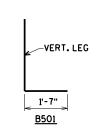


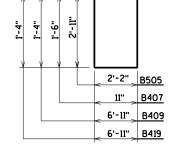


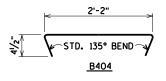
#### TYPICAL SECTION THRU BODY

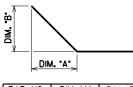
2'-6"

DO NOT PLACE FILL ABOVE THREE FEET FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE

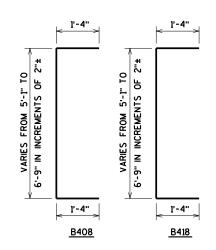


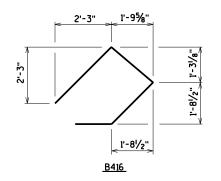


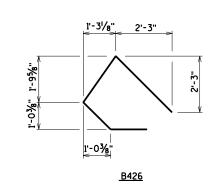




_	7	
BAR NO.	DIM. "A"	DIM. "B"
B803	1'-0¾"	1'-0¾"
B510	1'-0¾"	1'-0¾"
B811	1'-0¾"	I'-0¾"
B415	8'-0"	1'-10"
B520	1'-0¾"	1'-0¾"
B821	1'-0¾"	1'-0¾"
B425	8'-0"	1'-10"







- ⊗ STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. FOR RODENT SHIELD SEE DETAIL ON SHEET 6.
- FOR PILE SPLICE DETAIL SEE SHEET 2.
- B.F. DENOTES BACK FACE.
- F.F. DENOTES FRONT FACE.
- E.F. DENOTES EACH FACE.

STATE PROJECT NUMBER

4380-04-71

#### BILL OF BARS

o N	D BAR	REO'D.	LENGTH	BAR	BUNDLED	SERIES	1,320" COATED 2,120" UNCOATED
BAR	COATED	NO. F	rEN	BENT	BUN	BAR	
B501		64	5-9	Х			BODY VERT. E.F.
B502		9	31-4				BODY HORIZ. F.F.
B803		18	22-0				BODY HORIZ. B.F.
B404		24	2-9				BODY TIES
B505		32	7-9	Х			BODY VERT. TOP
B406		2	27-6				BODY HORIZ. @ TOP NOTCH
B407		19	3-9	Х			BODY VERT. @ TOP NOTCH
B408	Х	22	8-5			⊗	WING 3 VERT. E.F.
B409	X	4	9-5	X	Г		WING 3 VERT. E.F.
B510	X	9	11-7	X	Г		WING 3 HORIZ. F.F.
B811	х	9	13-2	X			WING 3 HORIZ. B.F.
B412	X	2	10-3				WING 3 HORIZ. E.F.
B413	X	2	7-10				WING 3 HORIZ. E.F.
B414	X	2	4-10				WING 3 HORIZ. E.F.
B415	X	2	10-6	X			WING 3 DIAG. E.F.
B416	X	4	8-10	X			WING 3 HORIZ.
B417	X	8	3-8				WING 3 VERT.
B418	X	22	8-5	X		⊗	WING 4 VERT. E.F.
B419	x	4	9-5	x	Г		WING 4 VERT. E.F.
B520	X	9	11-7	X			WING 4 HORIZ. F.F.
B821	x	9	13-2	x			WING 4 HORIZ. B.F.
B422	x	2	10-3				WING 4 HORIZ. E.F.
B423	x	2	7-10				WING 4 HORIZ. E.F.
B424	x	2	4-10				WING 4 HORIZ. E.F.
B425	х	2	10-6	х	Г	Г	WING 4 DIAG. E.F.
B426	x	4	8-0	X	Г	Г	WING 4 HORIZ.
B427	х	6	3-8	Г	Г	Г	WING 4 VERT.
	П			Г	Г	Г	
	П			Г	Г	$\overline{}$	

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊗LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

#### BAR SERIES TABLE

BAR MARK	NO REO'D.	LENGTH
B408	2 SERIES OF 11	7'-7" TO 9'-3"
B418	2 SERIES OF 11	7'-7" TO 9'-3"

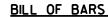
BUNDLE AND TAG EACH SERIES SEPARATELY.



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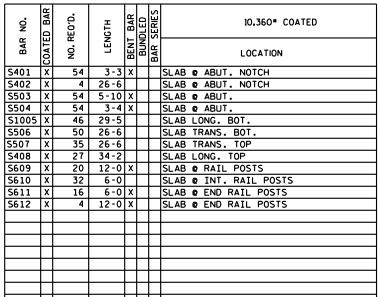
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT

APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM

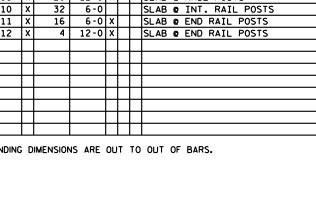
LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0' CENTERS.

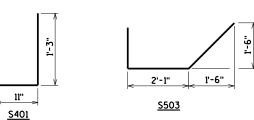
ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT

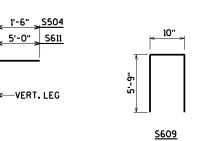
CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

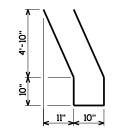


BENDING DIMENSIONS ARE OUT TO OUT OF BARS.









<u>S612</u>

BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

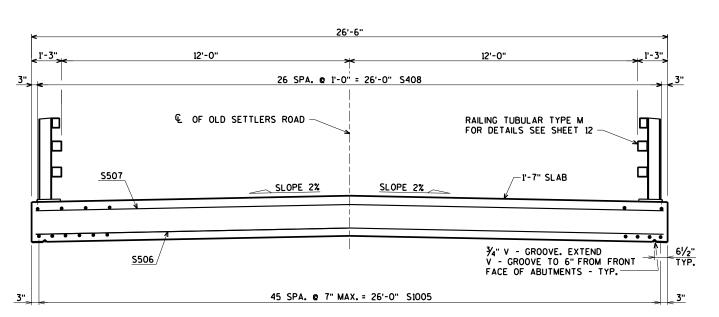
SHEET 10 OF 12

8

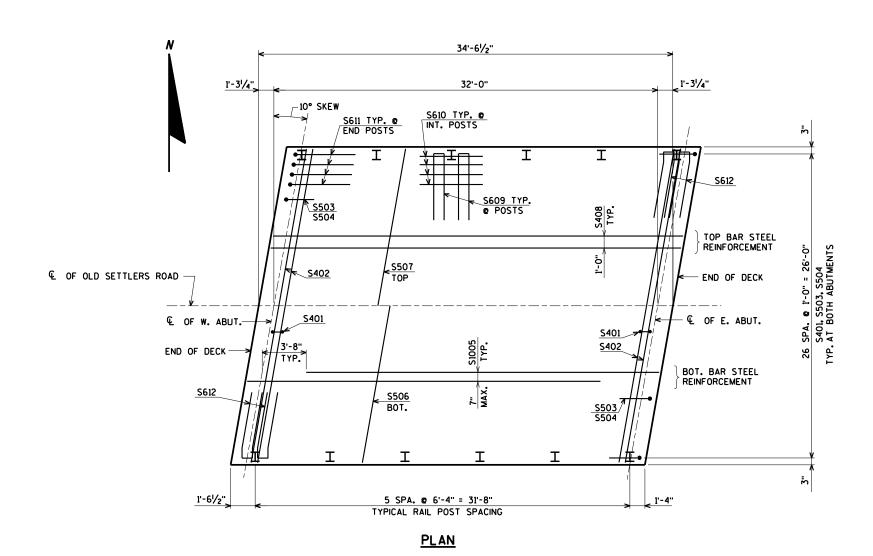
STRUCTURE B-31-109 CLP PLANS CK'D. CJM

SUPERSTRUCTURE

NO. DATE



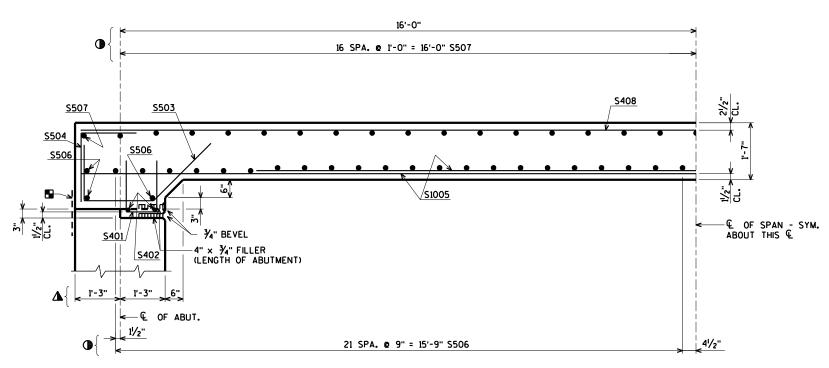
TYPICAL SECTION THRU BRIDGE



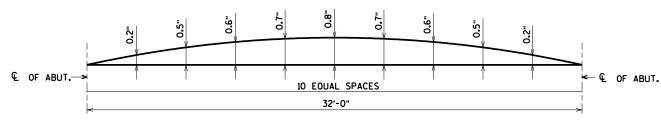
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4380-04-71



#### PART LONGITUDINAL SECTION



### CAMBER DIAGRAM

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

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE Q. OF ABUTMENTS, AND AT 5/10 PTS. TO VERIFY CAMBER, TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR &.

#### TOP OF DECK ELEVATIONS

LOCATION	% OF W. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF E. ABUT
N. EDGE OF SLAB	759.53	759.51	759.50	759.49	759.48	759.47	759.45	759.44	759.43	759.42	759.41
€ OF STRUCTURE	759.80	759.79	759.78	759.76	759.75	759.74	759.73	759.72	759.70	759.69	759.68
S. EDGE OF SLAB	759.54	759.53	759.52	759.51	759.50	759.48	759.47	759.46	759.45	759.44	759.42

ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP. ■ 18" RUBBERIZED MEMBRANE WATERPROOFING

DIMENSIONS MEASURED NORMAL TO © OF SUBSTRUCTURE.

DIMENSIONS MEASURED ALONG & OF OLD SETTLERS ROAD.

BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-31-109 CLP PLANS CK'D. CJM

SUPERSTRUCTURE DETAILS

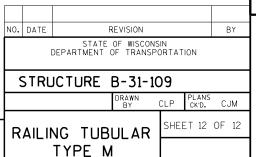
AYRES 3433 Oakwood Hills Parkway Eau Claire, WI 5470I www.AyresAssociates.com

1:±42±45-0475.00 - Kewaunee Co.Old Settlers Road over Black Creek±Structures±450475 sup.dgn

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8

SHEET 11 OF 12



8

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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. WHEN PAINTING IS REQUIRED, ALL MATERIAL EXCEPT ANCHORAGE DETAILKNO. 3 & 4) SHALL BE PAINTED OVER GALVANIZING WITH APPROVED TIE COATAND TOP COAT.

POST SHIM

DETAIL

BACK FACE OF ABUT.

2'-3"

PART ELEVATION OF RAILING

- € OF END POST

1/16" THK.

13/6" Ø HOLES FOR 11/8" Ø ANCHOR BOLTS

**ANCHOR PLATE** 

(AT RAIL TO DECK CONNECTION)

#### EARTHWORK - OLD SETTLERS

	AREA (SF)				ntal Vol (CY) (Unadjusted	Cumulativ			
		Unusable			Unusable			Expanded	
	Cut	<b>Pavement Material</b>	Fill	Cut	<b>Pavement Material</b>	Fill	Cut	Fill	Mass Ordinate
STATION							1.00	1.30	
				Note 1	Note 2	Note 3	Note 1		Note 8
9+50	22.22	7.30	0.00	0	0	0	0	0	0
9+65.27	35.86	7.30	11.27	16	4	3	16	4	8
9+82.76	35.86	7.30	11.27	23	5	7	40	14	17
B-31-0110									17
10+17.24	37.10	7.30	16.63	0	0	0	40	14	17
10+35	37.10	7.30	16.63	24	5	11	64	28	23
10+50	22.33	7.30	0.00	17	4	5	81	34	29

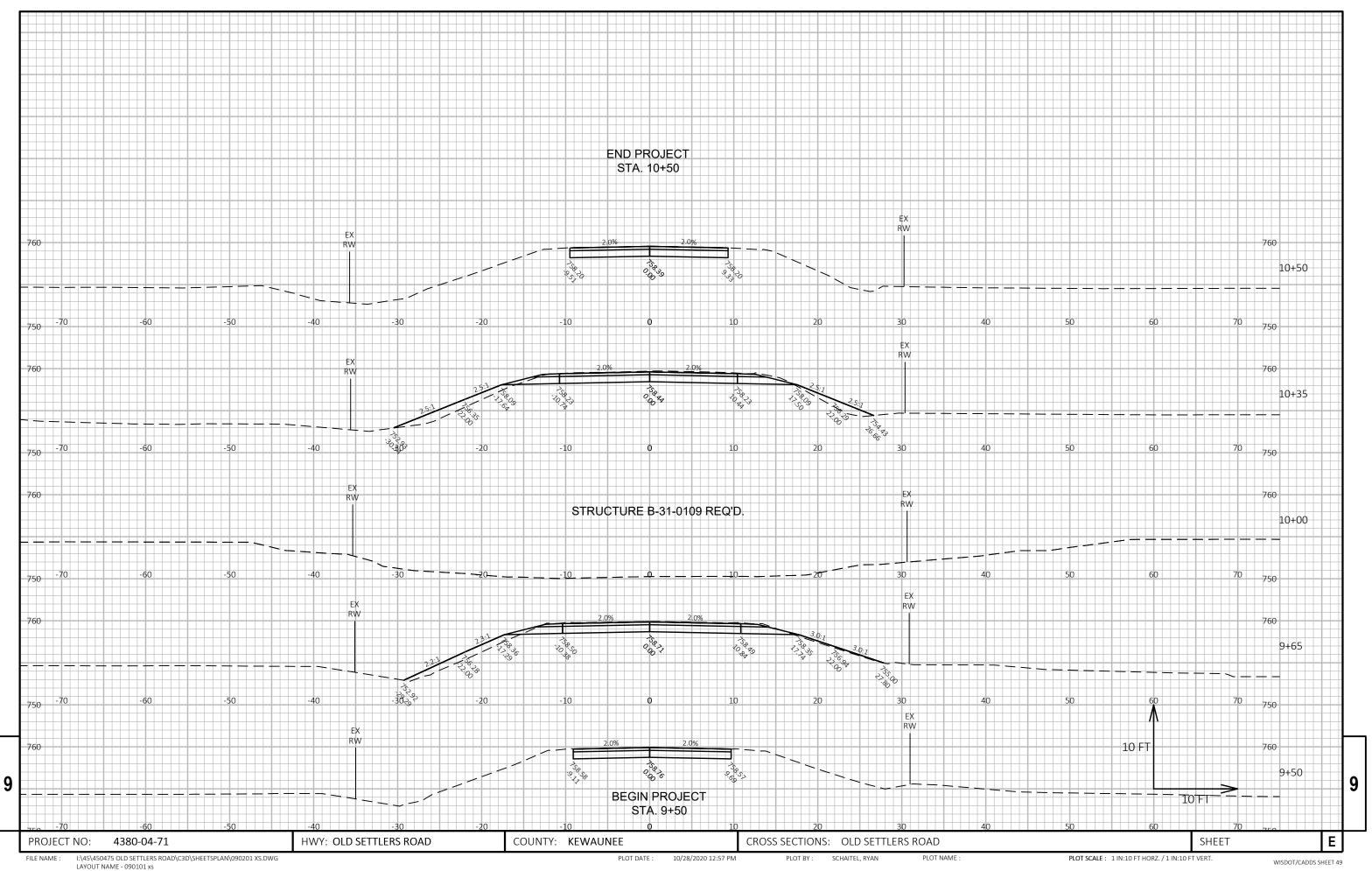
81 18 26

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
8 - Mass Ordinate	Cut - Unusable Pavement Material - (Fill * Fill Factor)

9

9

PROJECT NUMBER: 4380-04-71 HWY: OLD SETTLERS ROAD COUNTY: KEWAUNEE COMPUTER EARTHWORK DATA SHEET:



LAYOUT NAME - 090101 xs

Notes



# Wisconsin Department of Transportation

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