Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS =

JANUARY 2021 STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details Section No.

PLAN OF PROPOSED IMPROVEMENT

CTH EE - STH 80

BR S BRANCH CREEK BRIDGE, B62-0259

CTH Q **VERNON COUNTY**

STATE PROJECT NUMBER 5479-00-70

R-1-E

HORA

Estimate of Quantities

Right of Way Plat

Structure Plans

Cross Sections

Miscellaneous Quantities

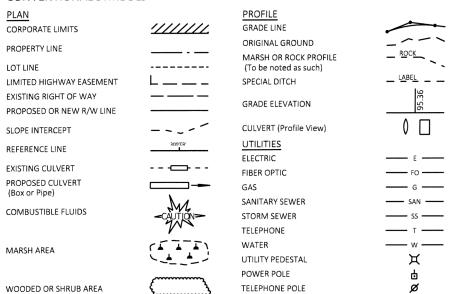
Standard Detail Drawings

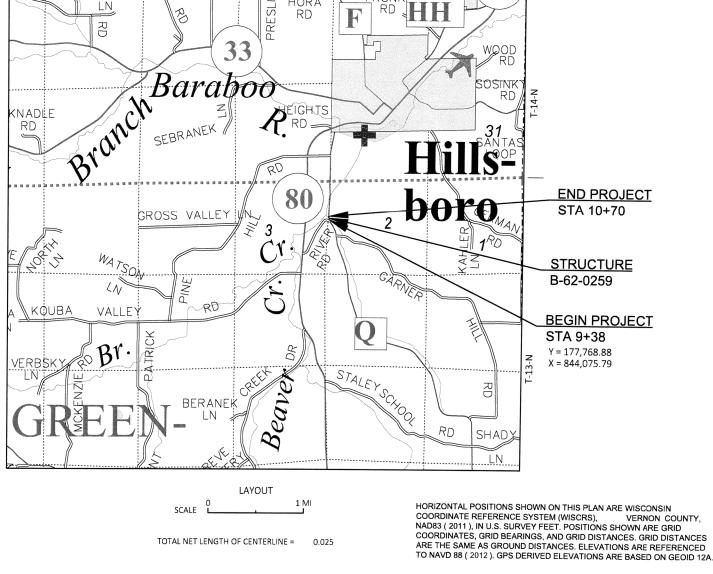
Plan and Profile (Includes Frosion Control)

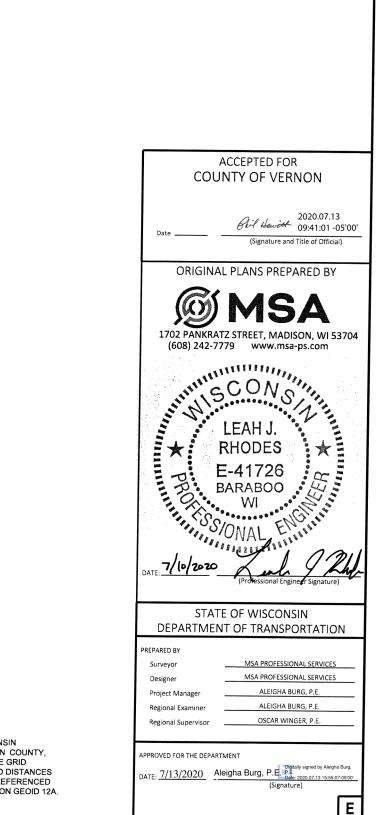
DESIGN DESIGNATION

A.A.D.T.	2021	=	520
A.A.D.T.	2041	=	600
D.H.V.		=	11.8
D.D.		=	60/40
T.		=	14.0%
DESIGN S	PEED	=	45 MPH
ESALS		=	138,700

CONVENTIONAL SYMBOLS







FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2021080

STATE PROJECT

5479-00-70

FILE NAME :

STANDARD ABBREVIATIONS

AC	ACRE	F/L	FLOW LINE	SALV	SALVAGED
AGG	AGGREGATE	FT	FOOT	SAN	SANITARY SEWER
<	ANGLE	GN	GRID NORTH	SECT	SECTION
ASPH	ASPHALTIC	HR	HANDICAP RAMP	SHLDR	SHOULDER
AC	ASPHALT CEMENT	HT	HEIGHT	SW	SIDEWALK
ADT	AVERAGE DAILY TRAFFIC	CWT	HUNDREDWEIGHT	S	SOUTH
В & В	BALLED AND BURLAPPED	HYD	HYDRANT	SB	SOUTHBOUND
BM	BENCH MARK	IN DIA	INCH DIAMETER	SPECS	SPECIFICATIONS
CB	CATCH BASIN	INL	INLET	SQ	SQUARE
€ OR C/L	CENTER LINE	ID	INSIDE DIAMETER	SF OR SQ FT	SQUARE FEET
C-C	CENTER TO CENTER	I	INTERSECTION ANGLE	SY	SQUARE YARD
CONC	CONCRETE	ΙE	INVERT ELEVATION	SSPRC	STORM SEWER
CO	COUNTY	IP	IRON PIPE OR PIN		PIPE REINFORCED CONCRETE
СТН	COUNTY TRUNK HIGHWAY	JCT	JUNCTION	STD	STANDARD
CY	CUBIC YARD	L	LENGTH OF CURVE	SDD	STANDARD DETAIL DRAWINGS
CULV	CULVERT	_ LF	LINEAR FOOT	STH	STATE TRUNK HIGHWAYS
CP	CULVERT PIPE	LC	LONG CHORD OF CURVE	STA	STATION
CPRC	CULVERT PIPE	LCB	LONG CHORD BEARING	SS	STORM SEWER
0	REINFORCED CONCRETE	LS	LUMP SUM	J T	TANGENT
C & G	CURB AND GUTTER	MH	MANHOLE	TEL	TELEPHONE
D	DEGREE OF CURVE	N	NORTH	TEMP	TEMPORARY
=	DESIGN HOUR VOLUME	Ϋ́	NORTH GRID COORDINATE	TLE	TEMPORARY LIMITED EASEMENT
DHV DIA OR ø	DIAMETER	0E	OUTLET ELEVATION	T	TON
DIST	DISTRICT	OL OL	OUT LOT	TC	TOP OF CURB
DWY	DRIVEWAY	OD	OUTSIDE DIAMETER	TN	TOWN
E E	EAST	OH	OVERHEAD LINES	TRANS	TRANSITION
X	EAST GRID COORDINATE	PAVT	PAVEMENT	T	
EB	EASTBOUND	PLE	PERMANENT LIMITED EASEMENT	TYP	TRUCKS (percent of)
ELEC	ELECTRIC	PC		UNCL	TYPICAL
EL OR ELEV	ELEVATION	PI PI	POINT OF CURVATURE POINT OF INTERSECTION	USH	UNCLASSIFIED UNITED STATES HIGHWAY
EMB	EMBANKMENT	PT	POINT OF INTERSECTION POINT OF TANGENCY	VAR	
EW	ENDWALL	PCC	PORTLAND CEMENT CONCRETE	VERT	VARIABLE
ESALS	EQUIVALENT SINGLE	LB	POUND CEMENT CONCRETE	VENT	VERTICAL
LJALJ	AXLE LOADS	PE PE	PRIVATE ENTRANCE	VOL	VERTICAL CURVE
EXC	EXCAVATION	R OR RAD	RADIUS	WM	VOLUME
EBS	EXCAVATION BELOW	RR	RAILROAD	W M	WATER MAIN
LD3	SUBGRADE	R	RANGE		WATER VALVE
EXIST	EXISTING	R OR R/L	REFERENCE LINE	W	WEST
EXP	EXPANSION	REQD	REQUIRED	WB	WESTBOUND
F-F	FACE TO FACE	REQU	RIGHT	YD	YARD
FFRT	FERTILIZER	R / W	RIGHT-OF-WAY		
FERI	FIELD ENTRANCE	RD	ROAD		
r E	I ILLU ENTRANCE	NU	NORD		

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: LEAH RHODES, PE 1702 PANKRATZ STREET MADISON, WI 53704 608-355-8945 LRHODES@MSA-PS.COM

COUNTY CONTACT

VERNON COUNTY ATTN: PHIL HEWITT, COMMISSIONER 1335 RAILROAD AVENUE VIROULA, WI 54665 608-637-5452 PHIL.HEWITT@VERNONCOUNTY.ORG

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES ATTN: KAREN KALVELAGE 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 608-785-9115 KAREN.KALVELAGE@WISCONSIN.GOV

UTILITIES

BURIED FIBER OPTIC: HILLSBORO TELEPHONE COMPANY ATTN: CHAD SCHMIDT P.O. BOX 427 HILLSBORO, WI 54634 PHONE: 608-489-4415 CSCHMIDT@HILLSBOROTEL.COM

OVERHEAD ELECTRIC: VERNON ELECTRIC COOPERATIVE ATTN: MARK SEE 110 SAUGSTAD ROAD WESTBY, WI 54667 PHONE: 608-634-3121 MSEE@VERNONELECTRIC.ORG

* NOT A MEMBER OF DIGGERS HOTLINE



RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
		Α			В			С			D		
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08	.16 .30	.22 .38	.12	.20 .34	.27 .44	.15	.24 .37	.33 .50	.19	.28	.38 .56	
MEDIAN STRIP- TURF	.19	.20 .26	.24	.19 .25	.22	.26 .33	.20 .26	.23	.30 .37	.20 .27	.25	.30 .40	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT:		•		•			•		•			•	
ASPHAL T						.7095							
CONCRETE						.8095							
BRICK						.7080							
DRIVES, WALKS						.7585							
ROOFS						.7595							
GRAVEL ROADS.	SHOULDE	RS				.4060							

TOTAL PROJECT AREA = 0.41 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.22 ACRES

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED AT 3 LBS. PER 1000 SQUARE FEET. SLOPES STEEPER THAN 3:1 WILL REQUIRE EROSION MAT URBAN CLASS I TYPE B.

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

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMARKS WERE LOCATED IN THE FIELD USING GPS TECHNOLOGY.

THE 4½" ASPHALTIC SURFACE SHALL CONSIST OF A 2" UPPER LAYER WITH 12.5MM NOMINAL SIZE AGGREGATE AND A 2½" LOWER LAYER WITH 19.0MM NOMINAL SIZE AGGREGATE.

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

SILT FENCE TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION OR BRIDGE REMOVAL. EROSION CONTROL FEATURES FOR THE TEMPORARY WATER DIVERSION SHALL BE DETAILED IN THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN AND SHALL BE APPROVED BY THE DEPARTMENT OF NATURAL RESOURCES.

WETLANDS ARE PRESENT OUTSIDE THE EXISTING TOE OF SLOPE ON THE WEST SIDE OF THE STRUCTURE, AREAS OUTSIDE THE SLOPE INTERCEPTS ON THE WEST SIDE OF CTH O SHALL NOT BE DISTURBED EXCEPT AS REQUIRED TO CONSTRUCT STRUCTURE B-62-0259 OR THE TEMPORARY WATER DIVERSION. RESTORE AREAS THAT ARE DISTURBED BY THE TEMPORARY WATER DIVERSION.

PROJECT NO: 5479-00-70 HWY: CTH Q COUNTY: VERNON GENERAL NOTES SHEET **E**

P:\7300\$\7330\$\7339\07339028\CADD\\$HEET\$PLAN\020101-GN.DWG LAYOUT NAME - 020101_gn PLOT DATE: 7/16/2020

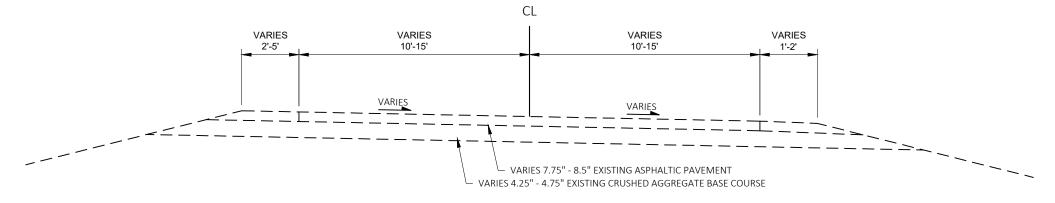
7/16/2020 10:33 AM PL

PLOT BY: JULIA ZEHNER

PLOT NAME

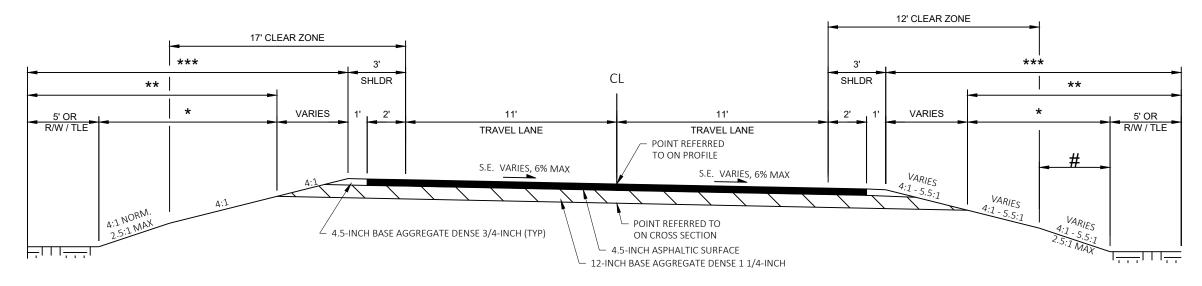
PLOT SCALE: 1 IN:10 FT





EXISTING TYPICAL SECTION

STA 9+38 - STA 10+70



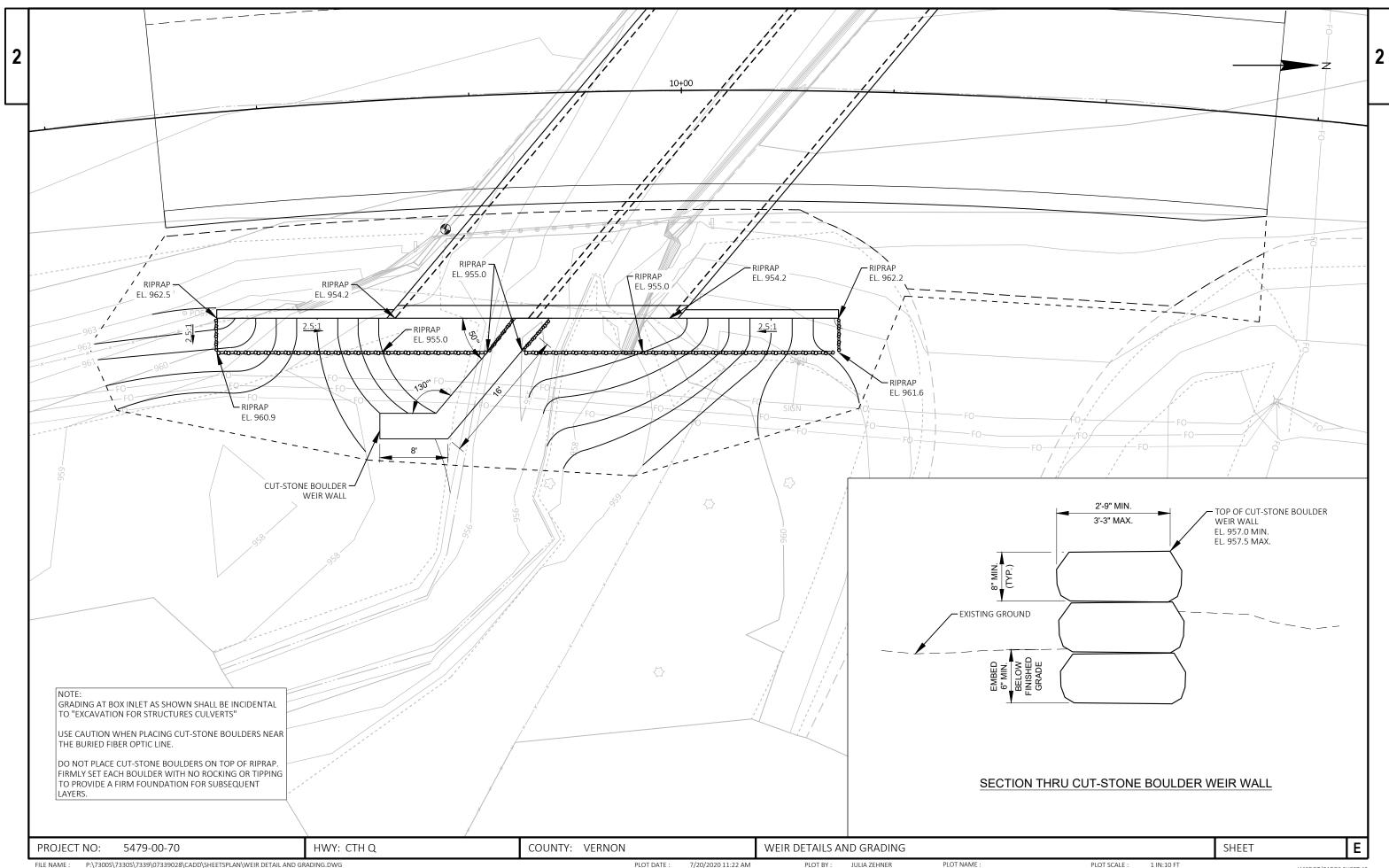
FINISHED TYPICAL SECTION

STA 9+38 - STA 10+70

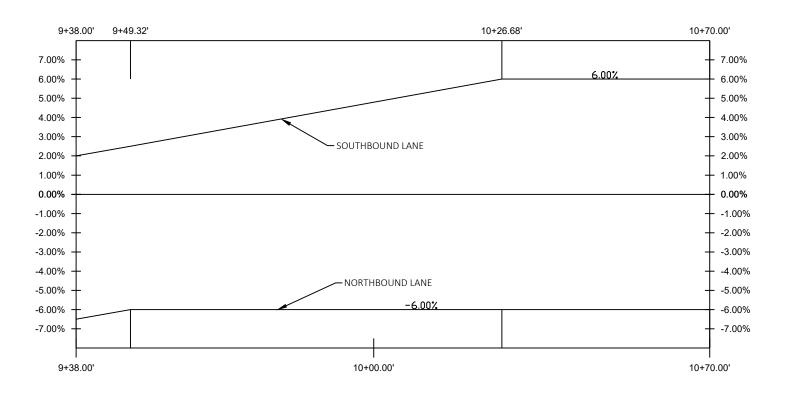
NOTES:

- * SALVAGED TOPSOIL
- ** MULCHING LIMITS
- *** SEEDING MIXTURE #20 & FERTILIZER TYPE B LIMITS
- # PLACE EROSION MAT URBAN CLASS I TYPE B BEYOND RIPRAP LIMITS ON EAST SIDE OF CTH Q.

PROJECT NO: 5479-00-70 HWY: CTH Q COUNTY: VERNON PLAN: TYPICAL SECTIONS SHEET JULIA ZEHNER PLOT BY: PLOT SCALE :



2



SUPERELEVATION

PROJECT NO: 5479-00-70 HWY: CTH Q

COUNTY: VERNON

PLAN: SUPERELEVATION DIAGRAM

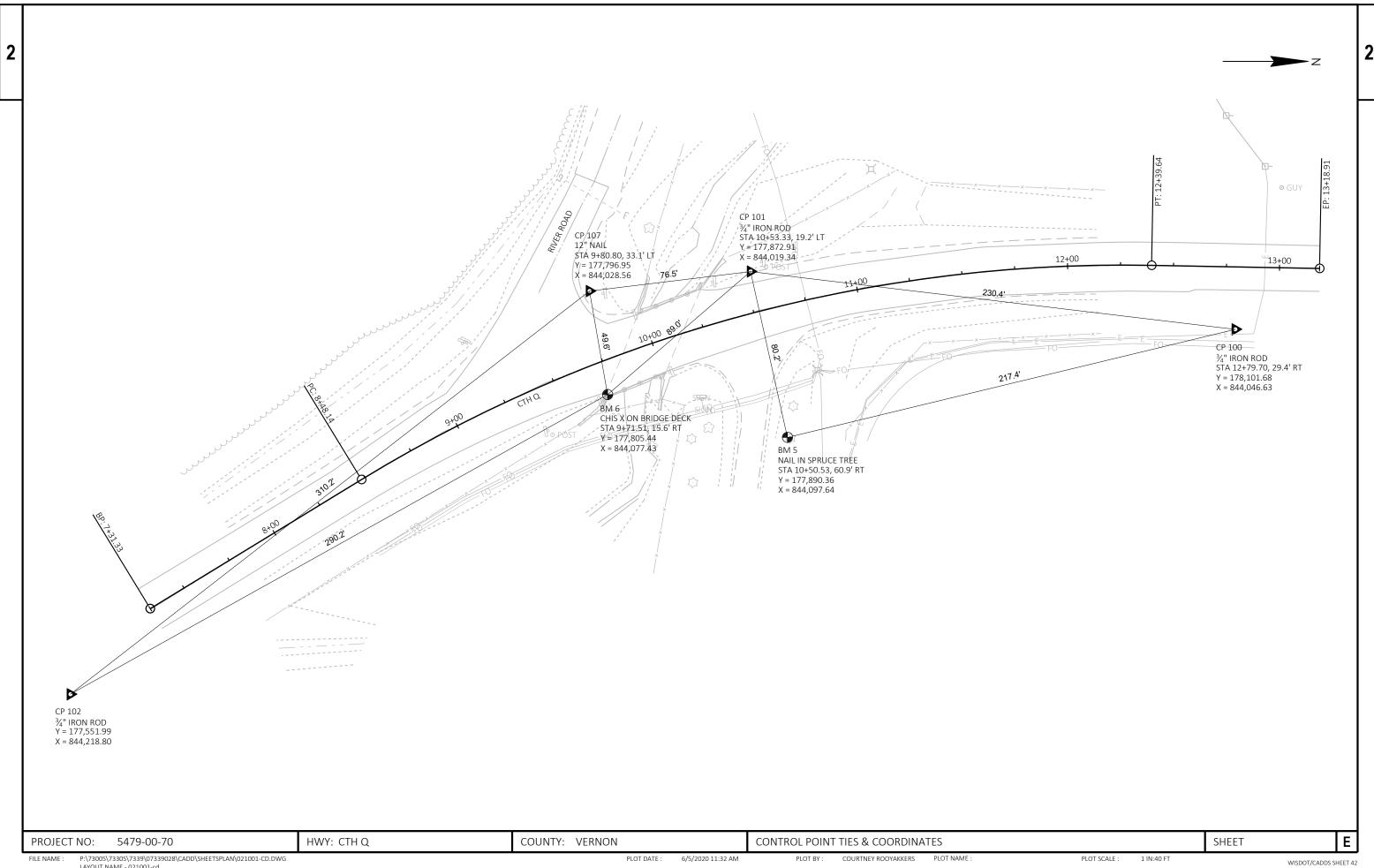
FILE NAME: PA/7300S/73390/7339028/CADD\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 01

FILE NAME: PA/7300S/73390/7339028/CADD\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 01

SHEET

E

WISDOT/CADDS SHEET 42



P:\7300\$\7330\$\7339\07339028\CADD\\$HEET\$PLAN\021001-CD.DWG LAYOUT NAME - 021001-cd

Page 1

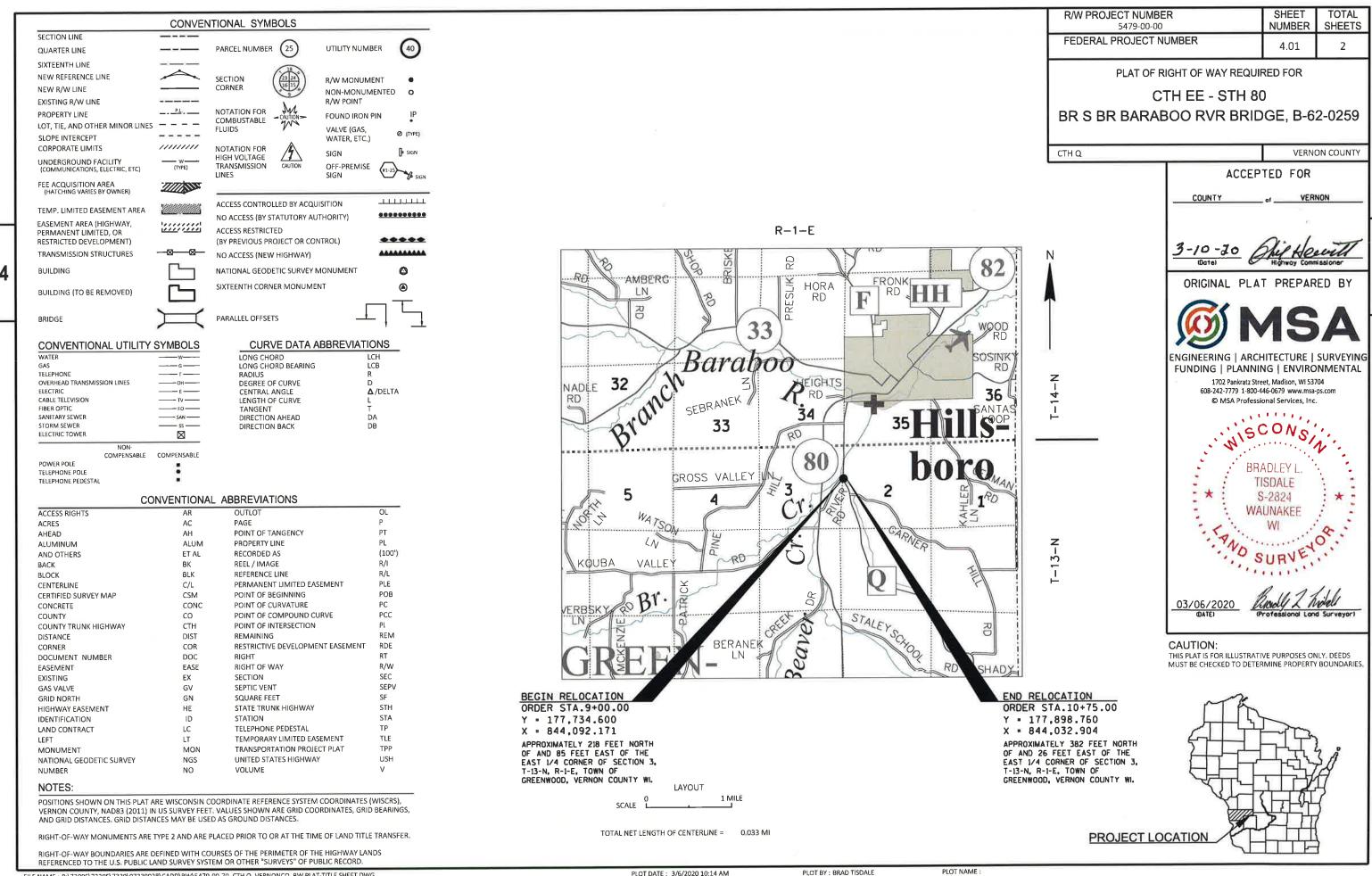
					F.470.00.70
					5479-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	1.000	1.000
0002	201.0105	Grubbing	STA	1.000	1.000
0004	201.0205	Removing Old Structure (station) 01. 10+00	LS	1.000	1.000
0008	206.2000	Excavation for Structures Culverts (structure) 01. B-62-		1.000	1.000
0000	200.2000	259	LO	1.000	1.000
0010	210.2500	Backfill Structure Type B	TON	2,175.000	2,175.000
0012	213.0100	Finishing Roadway (project) 01. 5479-00-70	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	26.000	26.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	350.000	350.000
0018	311.0110	Breaker Run	TON	250.000	250.000
0020	455.0605	Tack Coat	GAL	21.000	21.000
0022	465.0105	Asphaltic Surface	TON	103.000	103.000
0024	504.0100	Concrete Masonry Culverts	CY	263.000	263.000
0026	505.0400	Bar Steel Reinforcement HS Structures	LB	40,120.000	40,120.000
0028	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	2,530.000	2,530.000
0030	516.0500	Rubberized Membrane Waterproofing	SY	27.000	27.000
0032	606.0200	Riprap Medium	CY	60.000	60.000
0034	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	70.000	70.000
0036	618.0100	Maintenance And Repair of Haul Roads (project) 01.	EACH	1.000	1.000
	0.0.0.00	5479-00-70			
0038	619.1000	Mobilization	EACH	1.000	1.000
0040	624.0100	Water	MGAL	8.000	8.000
0042	625.0500	Salvaged Topsoil	SY	313.000	313.000
0044	627.0200	Mulching	SY	350.000	350.000
0046	628.1504	Silt Fence	LF	325.000	325.000
0048	628.1520	Silt Fence Maintenance	LF	325.000	325.000
0050	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0052	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0054	628.2008	Erosion Mat Urban Class I Type B	SY	90.000	90.000
0056	629.0210	Fertilizer Type B	CWT	0.330	0.330
0058	630.0120	Seeding Mixture No. 20	LB	14.000	14.000
0060	630.0200	Seeding Temporary	LB	14.000	14.000
0062	630.0500	Seed Water	MGAL	11.000	11.000
0064	633.5100	Markers Row	EACH	7.000	7.000
0066	633.5200	Markers Culvert End	EACH	4.000	4.000
0068	642.5001	Field Office Type B	EACH	1.000	1.000
0070	643.0420	Traffic Control Barricades Type III	DAY	1,404.000	1,404.000
0072	643.0705	Traffic Control Warning Lights Type A	DAY	1,872.000	1,872.000
0074	643.0900	Traffic Control Signs	DAY	936.000	936.000
0076	643.5000	Traffic Control	EACH	1.000	1.000
5010	0.10.0000	Traine Condo	_, (0)1	1.000	1.000

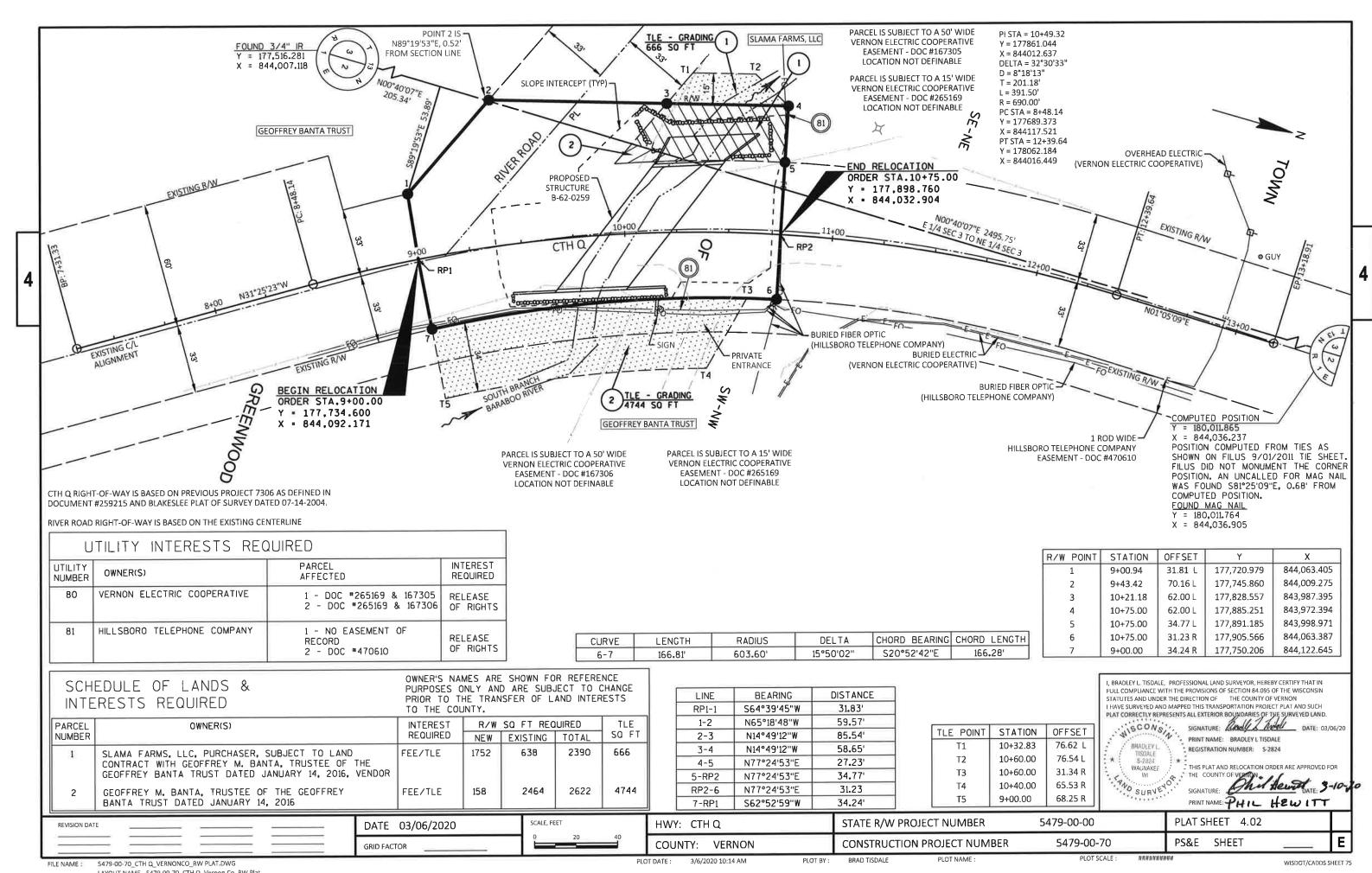
Estimate Of Quantities Page 2

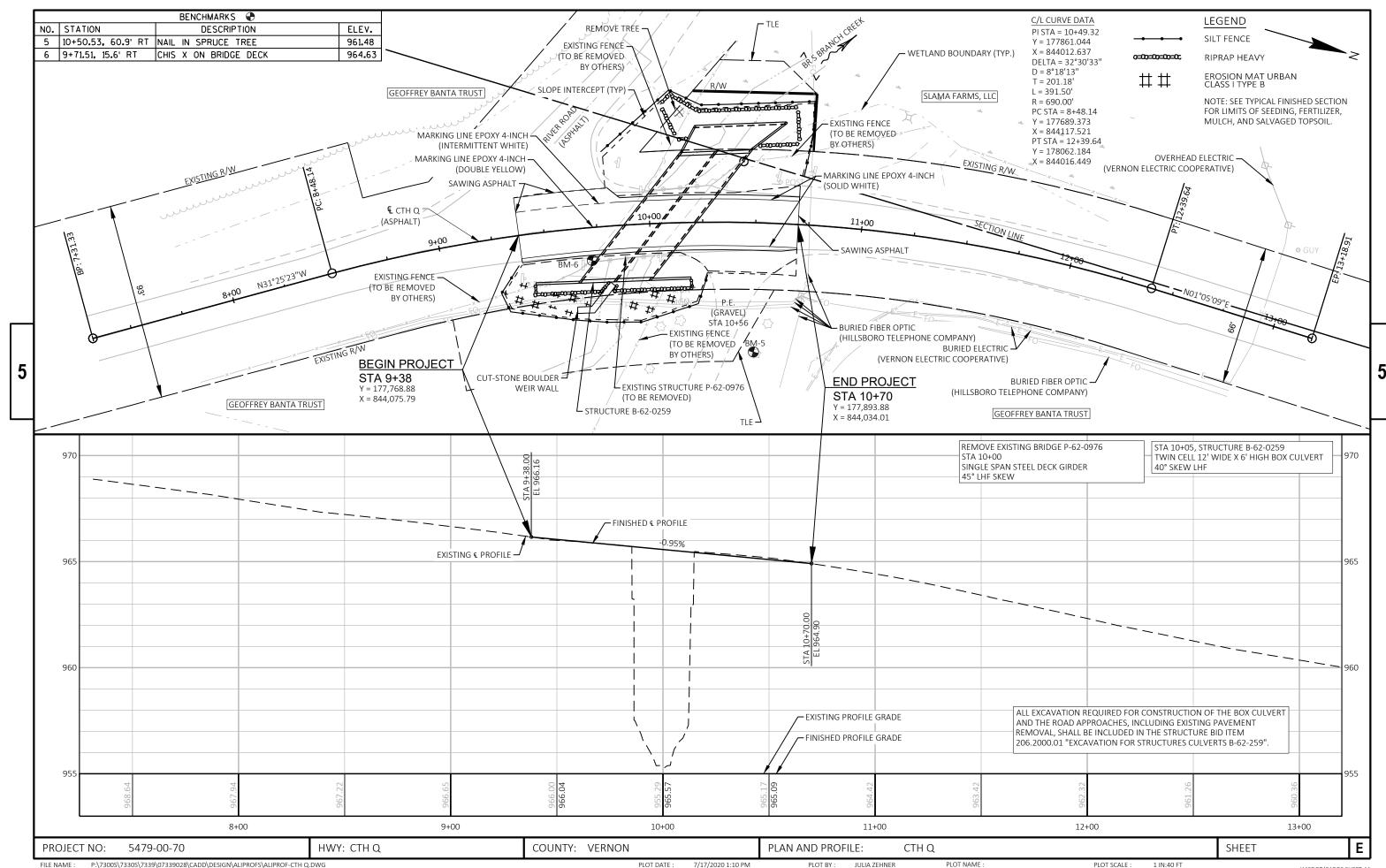
					5479-00-70
Line	Item	Item Description	Unit	Total	Qty
0078	645.0105	Geotextile Type C	SY	450.000	450.000
0800	645.0120	Geotextile Type HR	SY	170.000	170.000
0082	646.1020	Marking Line Epoxy 4-Inch	LF	492.000	492.000
0084	650.4500	Construction Staking Subgrade	LF	132.000	132.000
0086	650.5000	Construction Staking Base	LF	132.000	132.000
8800	650.6500	Construction Staking Structure Layout (structure) 01. B-62-259	LS	1.000	1.000
0090	650.9910	Construction Staking Supplemental Control (project) 01. 5479-00-70	LS	1.000	1.000
0092	650.9920	Construction Staking Slope Stakes	LF	132.000	132.000
0094	690.0150	Sawing Asphalt	LF	100.000	100.000
0096	715.0502	Incentive Strength Concrete Structures	DOL	1,578.000	1,578.000
0098	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0100	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	1,200.000	1,200.000
0102	SPV.0090	Special 01. Cut-Stone Boulder Weir Wall	LF	24.000	24.000
0104	SPV.0105	Special 01. Temporary Water Diversion Culvert B-62-0259	LS	1.000	1.000

<u>CLEARING AND GRUBBING</u>	BASE AGGREGATE DENSE 305.0110 305.0120 624.0100
201.0105 201.0205 CLEARING GRUBBING STATION TO STATION LOCATION STA STA 10+00 - 11+00 MAINLINE, LT. 1 1 TOTALS 1 1	BASE BASE AGGREGATE DENSE 1 1/4- DENSE 3/4-INCH INCH WATER
	EROSION CONTROL
ASPHALTIC SURFACE 455.0605 465.0105 ASPHALTIC TACK COAT SURFACE STATION TO STATION LOCATION GAL TON	625.0500 627.0200 628.2008 629.0210 630.0120 630.0200 630.0500 EROSION MAT SALVAGED URBAN CLASS I FERTILIZER TYPE SEEDING SEEDING TOPSOIL MULCHING TYPE B B MIXTURE NO. 20 TEMPORARY SEED WATER STATION TO STATION LOCATION SY SY SY CWT LB LB MGAL
9+38 - 10+70 MAINLINE <u>21</u> <u>103</u> TOTALS 21 103	9+38 - 10+70 MAINLINE, LT. 175 205 - 0.19 8 - 7 9+38 - 10+70 MAINLINE, RT. 75 75 70 0.07 3 - 2 - UNDISTRIBUTED 63 70 20 0.07 3 14 2 TOTALS 313 350 90 0.33 14 14 11
SILT FENCE 628.1504 628.1520 SILT FENCE SILT FENCE SILT FENCE MAINTENANCE STATION TO STATION LOCATION LF LF	MARKERS ROW MARKERS ROW MARKERS ROW MARKERS ROW MOBILIZATIONS MOBILIZATIONS MOBILIZATIONS MOBILIZATIONS MOBILIZATIONS MOBILIZATIONS MOBILIZATIONS MOBILIZATIONS MOBILIZATIONS EMERGENCY EROSION EROSION CONTROL CO

						TRAFFIC CONT	TROI			
MARKERS CULVERT STATION LOCATION 9+65 24', RT.	END 633.5200 MARKERS CULVERT END EACH 1	LOCATION	DAYS	TRAFFIC CONTROL BARRICADES TYPE III EACH		TRAFFIC CONTROL (543.0705 TRAFFIC CONTROL TRA WARNING CON'	TROL TRAFFIC NS CONTROL SIGNS	643.5000 TRAFFIC CONTROL EACH	
10+01 25', RT. 10+14 31', LT. 10+47 33', LT. TOTAL	1 1 1 4	BEGIN OF PROJECT/ RIVE END OF PROJECT PINE HILL ROAD UNDISTRIBUTED	78 78 78 78 78	9 7 1 1 TOTALS	702 546 78 78 1,404	10 10 2 2	780 4 780 4 156 2 156 2 1,872	312 312 2 156 2 156 936	- - - 1	
	PAVEMENT MARKING 646.1020				650.4500	CONSTRUCTION 650.5000	650.6500.0 CONSTRUCTIO	ON CONSTRUCTION	650.9920	
STATION TO STATION LOCATION 9+38 - 10+70 MAINLINE, RT.	MARKING LINE EPOXY 4-INCH DESCRIPTION LF SOLID WHITE 130	_ <u>STAT</u>	DN TO STATION	LOCATION	CONSTRUCTION STAKING SUBGRADE LF	CONSTRUCTION STAKING BASE LF				
9+86 - 10+70 MAINLINE, LT.	SOLID WHITE 86 MITTENT WHITE (3' LINE, 9' GAP) 12 DOUBLE YELLOW 264 TOTAL 492	9+:	3 - 10+70 -	MAINLINE PROJECT TOTALS	132 - 132	132		11	132	
<u>CUT-STONE BOULDER WEIF</u>	R WALL	TEMPORARY WATER DIVERSION					<u>S</u>	WING ASPHALT		
_STATION TO STATION LOCATION	SPV.0090.01 CUT-STONE BOULDER WEIR WALL LF	SPV.0105.01 TEMPORARY WA DIVERSION CULV B-62-0259 LOCATION LS	ER			STATION T	O STATION		690.0150 SAWING ASPHALT LF	
9+62 - 9+80 26'-40', RT. TOTAL	24	BR S BRANCH CREEK 1 TOTAL 1	_			9+38 9+38	- 9+38	MAINLINE MAINLINE, LT. MAINLINE TOTAL	31 44 25 100	
	I									







Standard Detail Drawing List

08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

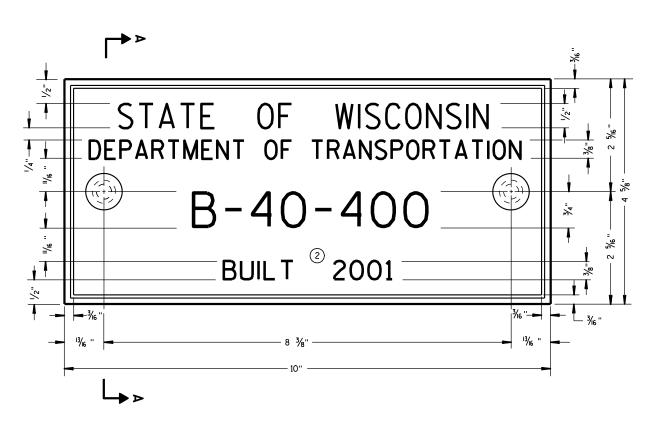
(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

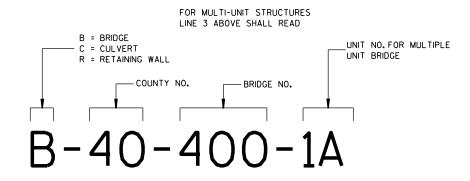
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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



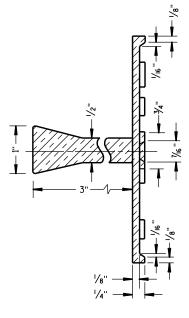
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

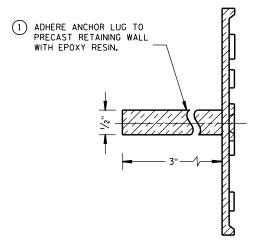
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

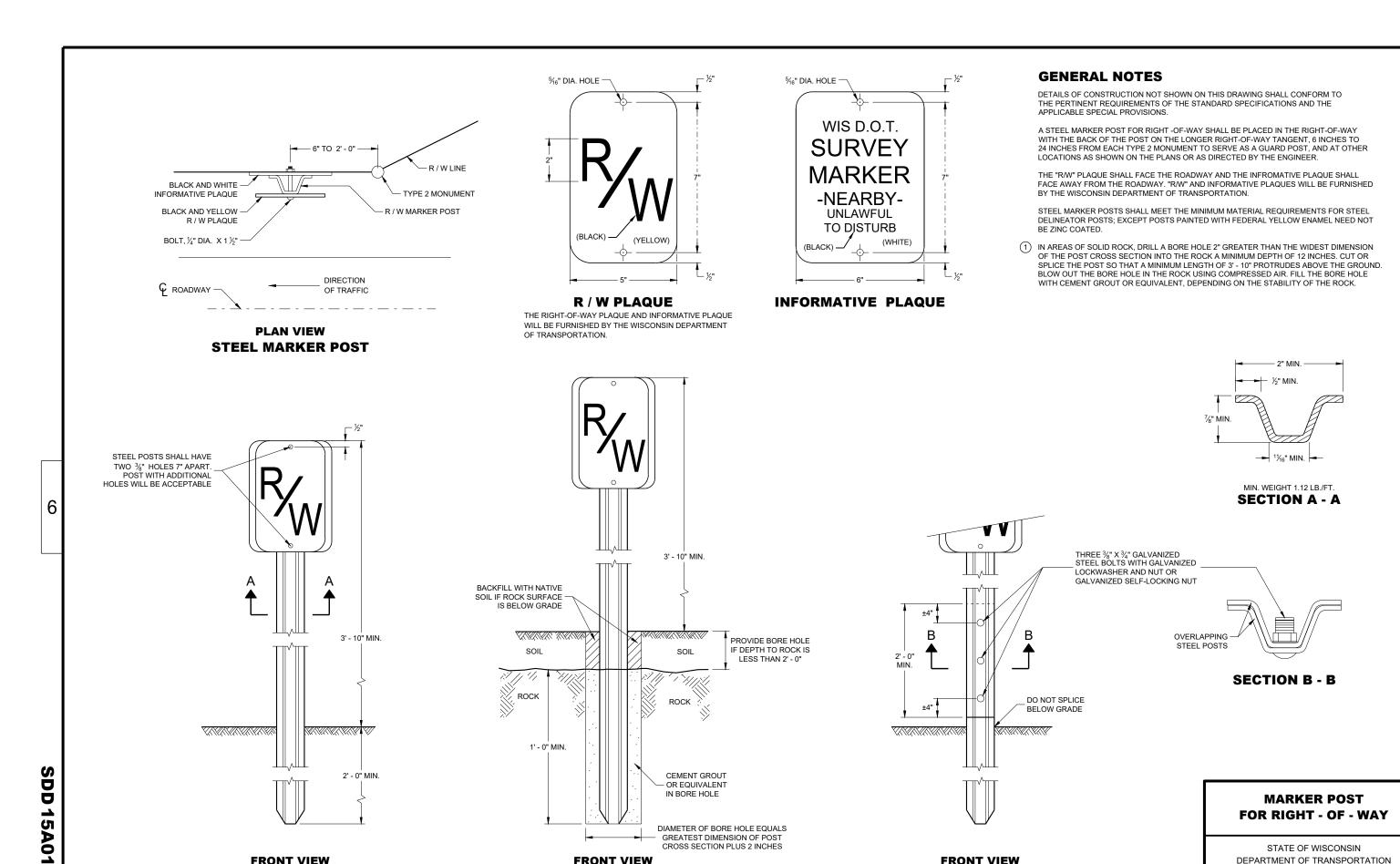
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

 D. 12 A 3-10



CROSS SECTION PLUS 2 INCHES

FRONT VIEW

SPLICE DETAIL

FRONT VIEW

ROCK INSTALLATION 1

FRONT VIEW

STEEL MARKER POST

AOA Ŋ

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

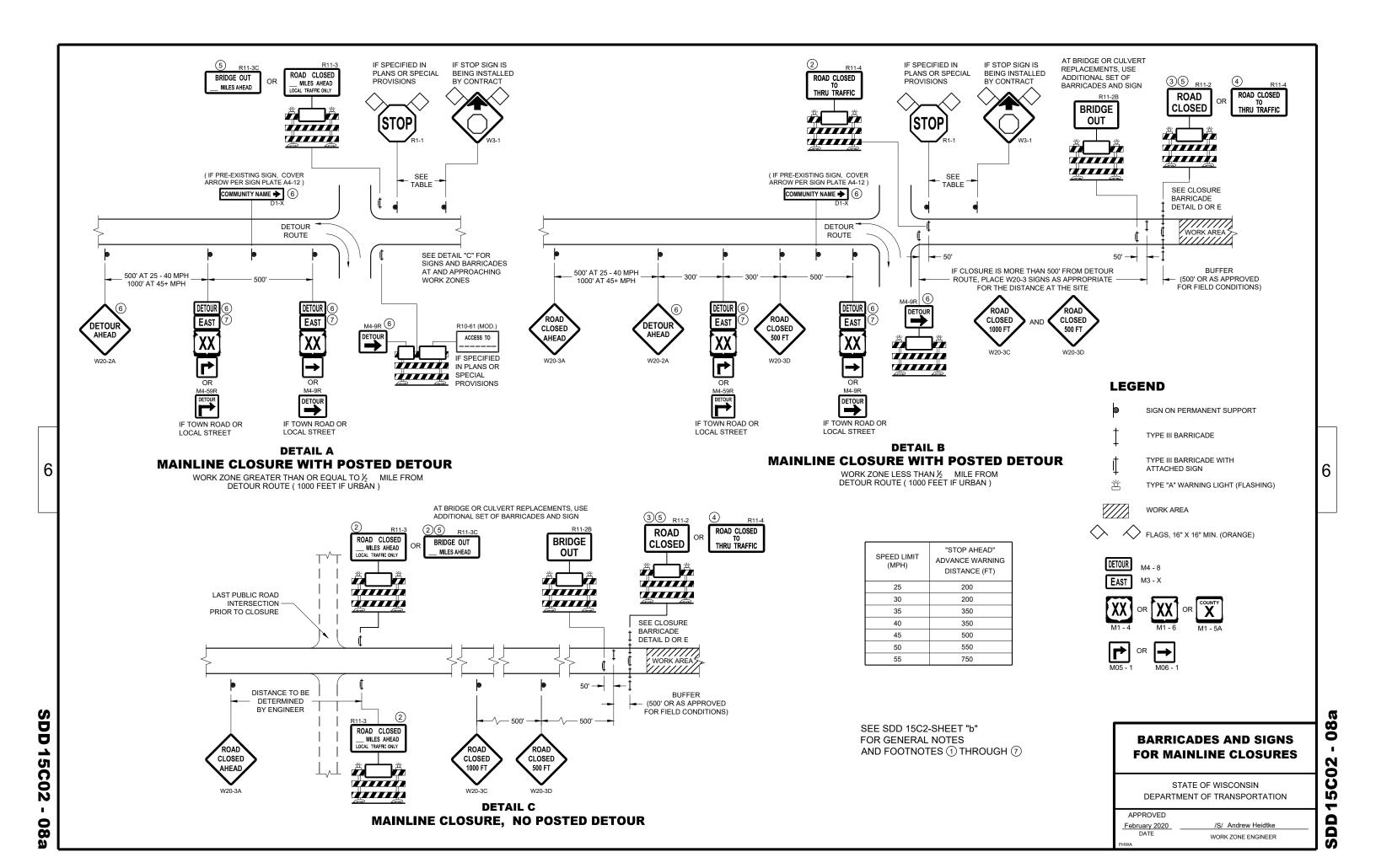
/S/ Ray Kumapayi
CHIEF SURVEYING AND MAPPING
ENGINEER

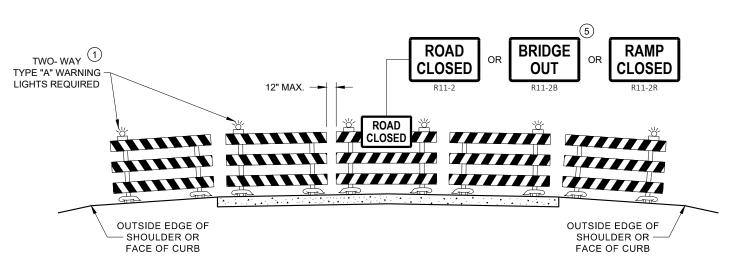
APPROVED

2/18/2016 DATE

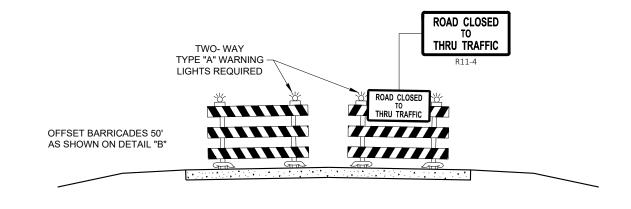








DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



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 SUPPORTS

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

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

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT 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 SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

FOR VARIOUS CLOSURES

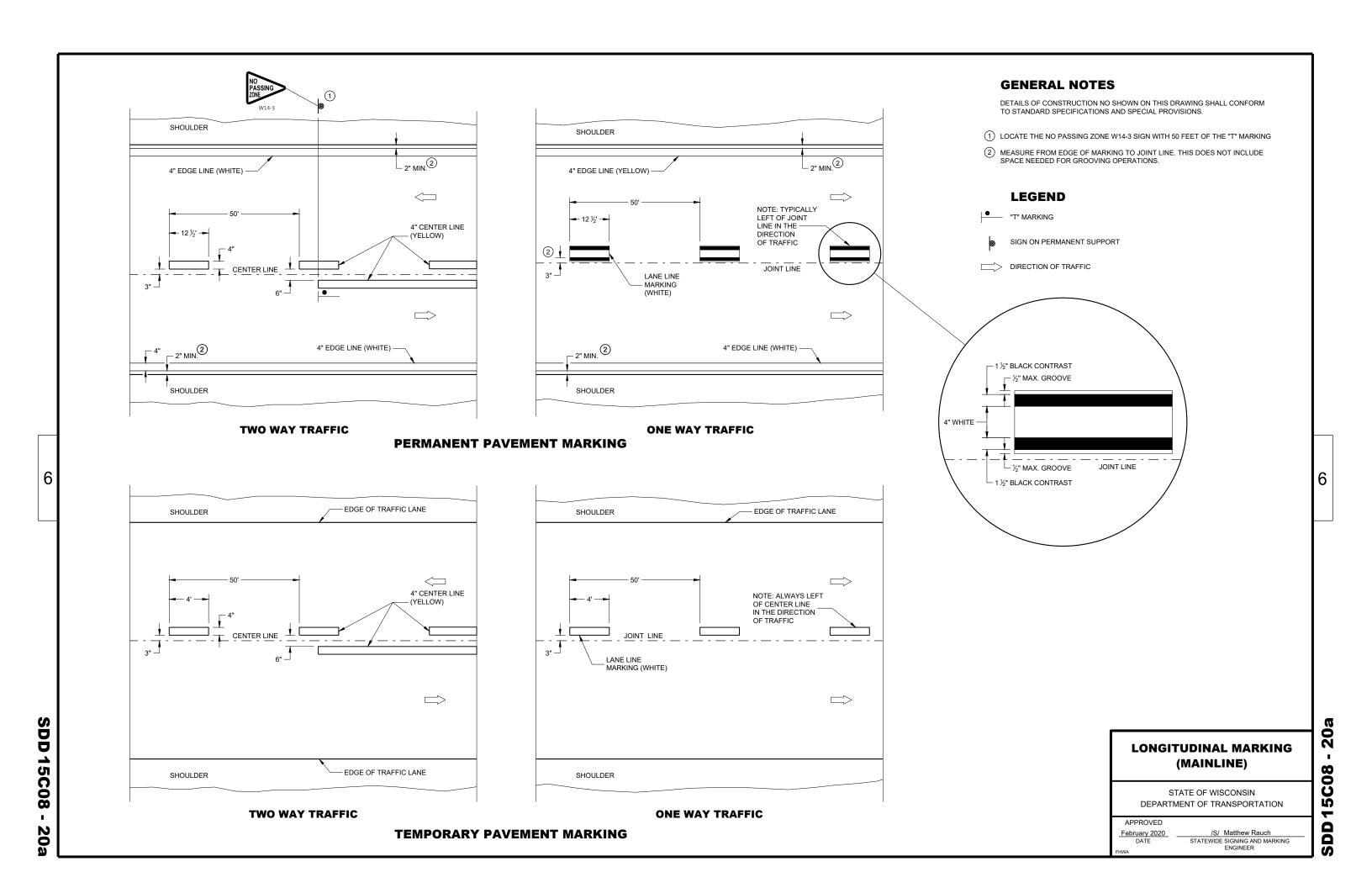
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

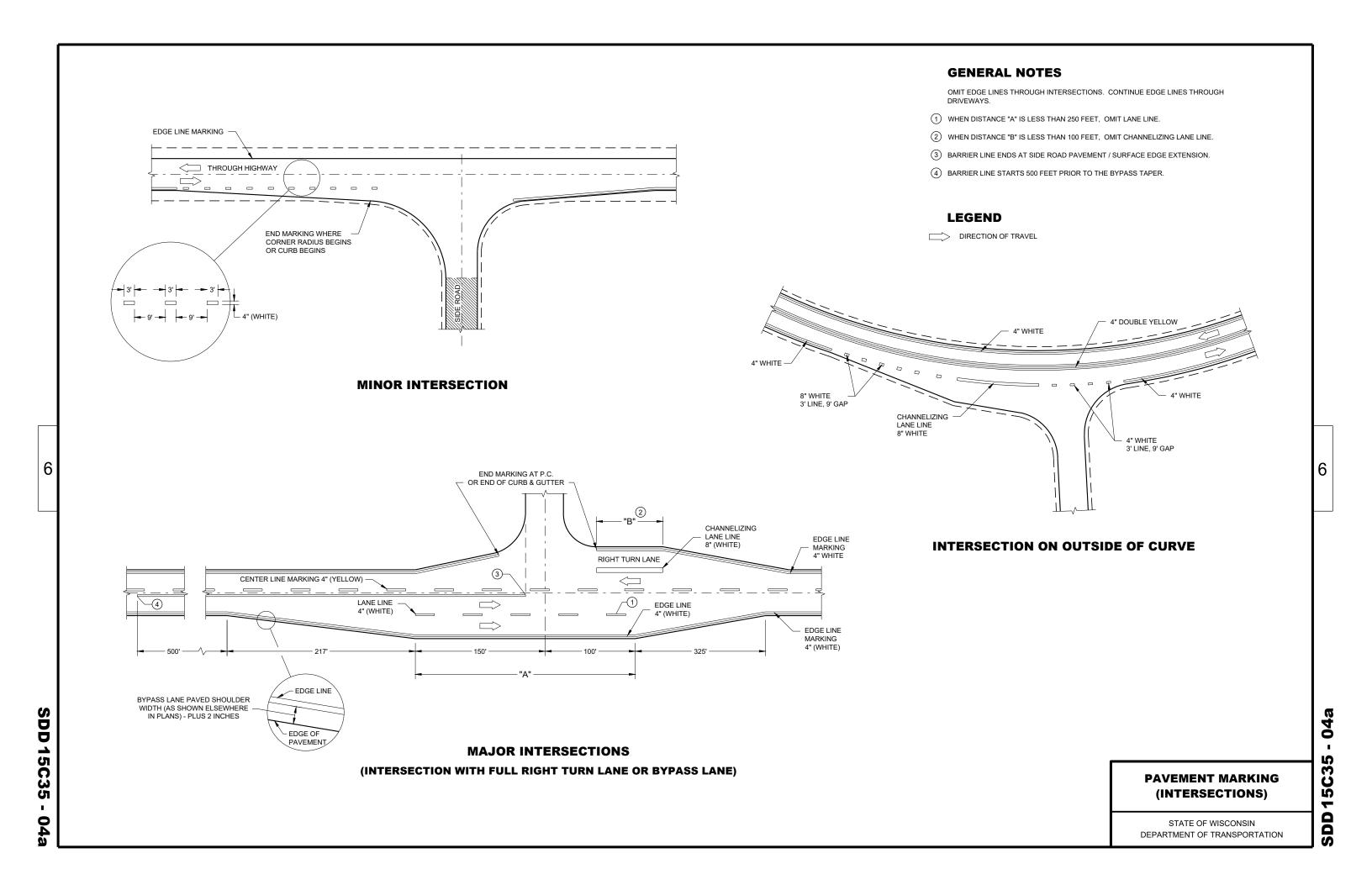
APPROVED

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

D 15C02







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 15 D ∞

6

Δ

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6

- 11/2" DIAMETER HOLES

Ω

Ω

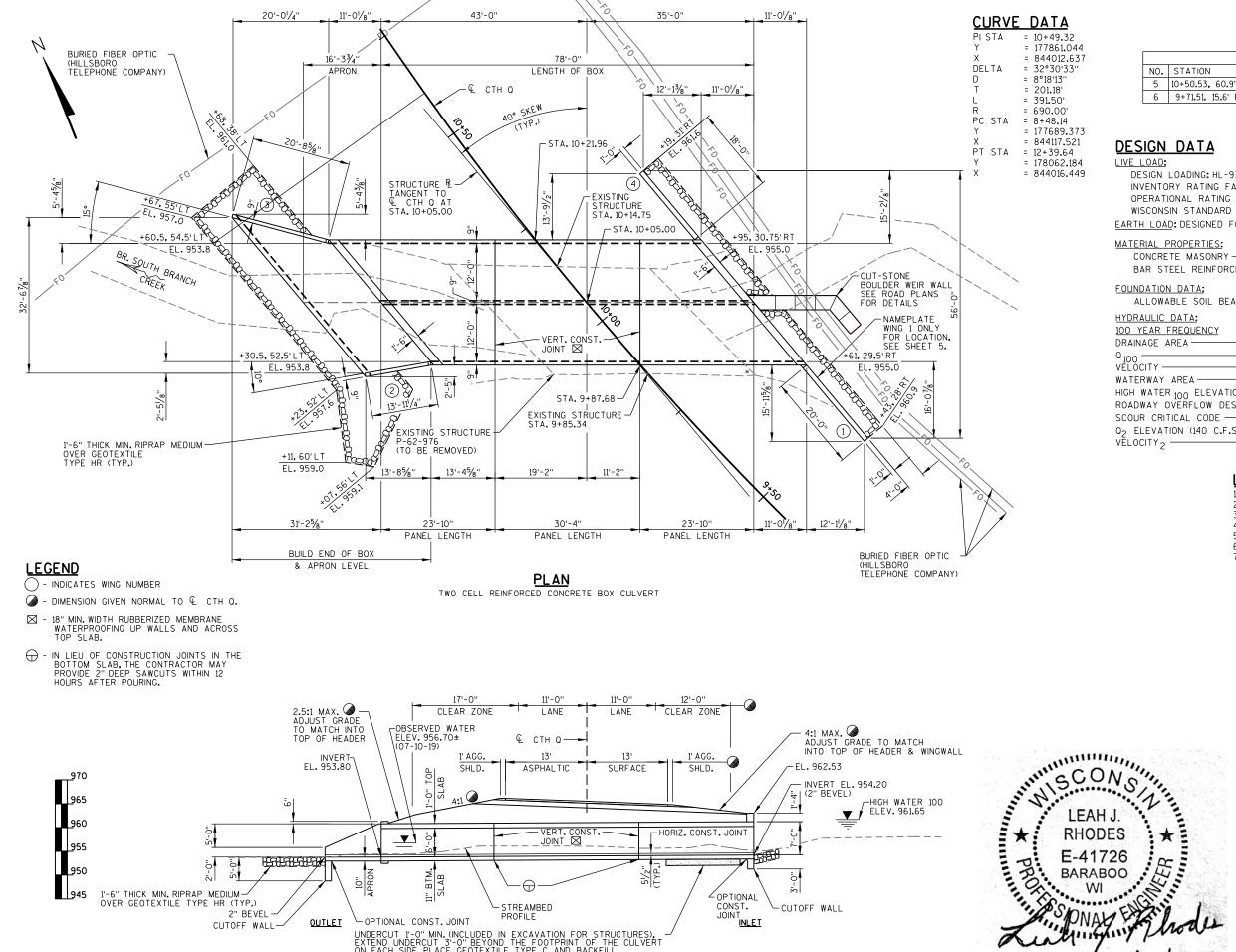
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE

0 ∞ **2**D



STREAMBED

ELEVATION

(LOOKING NORTH - NORMAL TO BOX)

PROFILE

UNDERCUT 1'-O" MIN. (INCLUDED IN EXCAVATION FOR STRUCTURES), EXTEND UNDERCUT 3'-O" BEYOND THE FOOTPRINT OF THE CULVERT ON EACH SIDE. PLACE GEOTEXTILE TYPE C AND BACKFILL WITH BREAKER RUN BETWEEN THE CUTOFF WALLS.

-OPTIONAL CONST. JOINT

∠optional

└─CUTOFF WALL

CONST. JOINT

INLET

STATE PROJECT NUMBER

5479-00-70

		BENCHMARKS	
NO.	STATION	DESCRIPTION	ELEV.
5	10+50.53, 60.9' RT	NAIL IN SPRUCE TREE	961.48
6	9+71.51, 15.6' RT	CHISELED X ON BRIDGE DECK	964.63

TRAFFIC DATA: DESIGN LOADING: HL-93 A.A.D.T. (2021) = 520 INVENTORY RATING FACTOR: 1.05 A.A.D.T. (2041) = 600 OPERATIONAL RATING FACTOR: 1.35 R.D.S. = 45 MPH WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 255 KIPS

EARTH LOAD: DESIGNED FOR 3 TO 6 FEET OF FILL

- f'c = 3.500 P.S.I.BAR STEEL REINFORCEMENT HS STRUCTURES - fy = 60,000 P.S.I.

ALLOWABLE SOIL BEARING CAPACITY ----- 2,000 P.S.F.

- 2.5 SQ. MI. - 770 C.F.S. -5.65 F.P.S. WATERWAY AREA ----134 SQ.FT. HIGH WATER 100 ELEVATION -— 961**.**65 ROADWAY OVERFLOW DESIGN FREQUENCY -> > 100 YEARS SCOUR CRITICAL CODE -— 8 Q2 ELEVATION (140 C.F.S.) — 958**.**45 — 3.70 F.P.S.

LIST OF DRAWINGS

1. GENERAL PLAN 2. CROSS SECTION, QUANTITIES, NOTES & DETAILS 3. BOX CULVERT

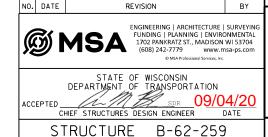
4. BOX CULVERT DETAILS 5. INLET WING DETAILS

6. OUTLET APRON & WING DETAILS

7. SUBSURFACE EXPLORATION

CONSULTANT DESIGN CONTACT: LEAH RHODES (608) 355-8945

BRIDGE OFFICE CONTACT: AARON BONK (608) 261-0261



CTH Q OVER BR. S. BRANCH CREEK

TOWN/CITY/VILLAGE GREENWOOD VERNON

AASHTO LRFD BRIDGE DESIGN SPEC. DESIGNED JZ CKD. LJR BY

GENERAL PLAN

SHEET 1 OF

1'-6" THICK MIN. RIPRAP MEDIUM-

OVER GEOTEXTILE TYPE HR (TYP.)

2" BEVEL

CUTOFF WALL-

OUTLET

8

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
203.0200.01	REMOVING OLD STRUCTURE STATION 10+00	LS	1
206.2000.01	EXCAVATION FOR STRUCTURES CULVERTS B-62-259	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	2175
311.0110	BREAKER RUN	TON	250
504.0100	CONCRETE MASONRY CULVERTS	CY	263
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	40,120
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,530
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	27
606.0200	RIPRAP MEDIUM	CY	60
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70
645.0105	GEOTEXTILE TYPE C	SY	450
645.0120	GEOTEXTILE TYPE HR	SY	170
	NON-BID ITEMS		
	PREFORMED FILLER	SIZE	3/4"

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 MARK SIGNIFIES THE BAR SIZE.

CONCRETE CUTOFF WALLS AND WING FOOTINGS SHALL BE POURED SEPARATELY.

THE CONCRETE IN THE CUTOFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THIS STRUCTURE WILL REPLACE THE EXISTING STRUCTURE, P-62-976, A 29.4'LONG, SINGLE SPAN, STEEL DECK GIRDER BRIDGE WITH A 30.2'CLEAR WIDTH.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS B-62-259" SHALL BE THE EXISTING GROUND LINE. ALL EXCAVATION REQUIRED FOR CONSTRUCTION OF THE BOX CULVERT AND THE ROAD APPROACHES, INCLUDING EXISTING PAVEMENT REMOVAL, SHALL BE INCLUDED IN "EXCAVATION FOR STRUCTURES CULVERTS B-62-259".

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE B" REQUIRED ON THE BOX CULVERT SIDES AND BEHIND WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES". ALL PRECAST BOX SECTIONS SHALL BE PLACED ON A BEDDING OF "BACKFILL STRUCTURE TYPE B" OF 6" MIN. DEPTH.

A - BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES, LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE

CONSTRUCTION OF THE STREAM DIVERSION SHALL BE IN ACCORDANCE WITH THE DETAILS PROVIDED IN THE "TEMPORARY WATER DIVERSION, CULVERT B-62-259" SPECIAL PROVISION.

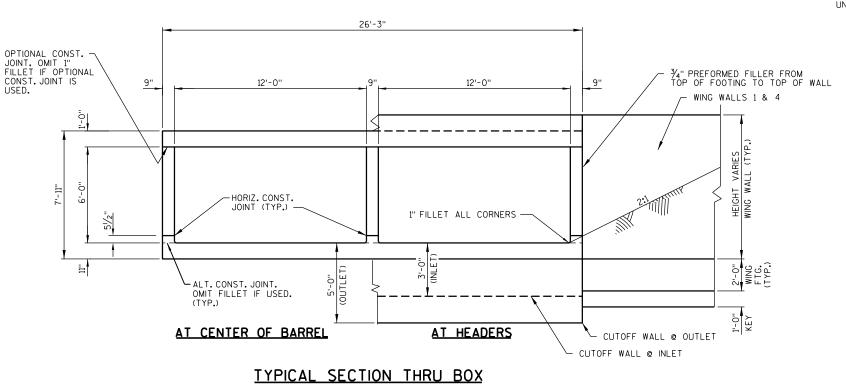
← DURING SUBSTRUCTURE REMOVAL, REMOVE ALL PORTIONS OF ABUTMENTS THAT ARE IN CONFLICT WITH THE PROPOSED BOX OR THE BOX CULVERT UNDERCUT LIMITS.

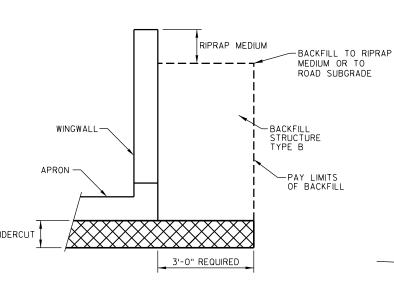
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMARKS WERE LOCATED IN THE FIELD USING GPS TECHNOLOGY.

A TEMPORARY WATER DIVERSION SHALL BE PROVIDED DURING CONSTRUCTION OF THE NEW CULVERT. THE TEMPORARY WATER DIVERSION BID ITEM IS DETAILED IN THE SPECIAL PROVISIONS AND PROVIDED IN THE ROADWAY QUANTITIES

-BOTTOM OF SUBGRADE -FINISHED GRADE TOP OF BOX CULVERT BACKFILL STRUCTURE TYPE B REQ'D. PAY LIMITS OF BACKFILL UNDERCUT 1'-O" MIN. OR TO BOTTOM OF EXISTING FILL MATERIAL, WHICHEVER IS DEEPER (INCLUDED IN EXCAVATION FOR STRUCTURES),
EXTEND UNDERCUT 3'-O" BEYOND THE FOOTPRINT OF THE CULVERT
AND WINGWALL FOUNDATIONS ON EACH SIDE. PLACE GEOTEXTILE TYPE C
AND BACKFILL WITH BREAKER RUN BETWEEN OUTLET CUT-OFF WALLS.

BOX BACKFILL STRUCTURE DETAIL





OUTLET WING BACKFILL DETAIL

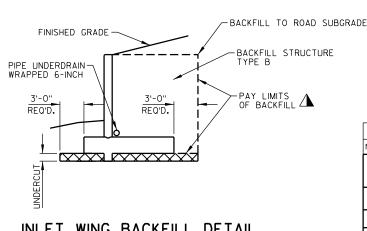
PROFILE GRADE LINE - CTH Q

-0.95%

STA. 10+21.96 EL. 965.36

STATE PROJECT NUMBER

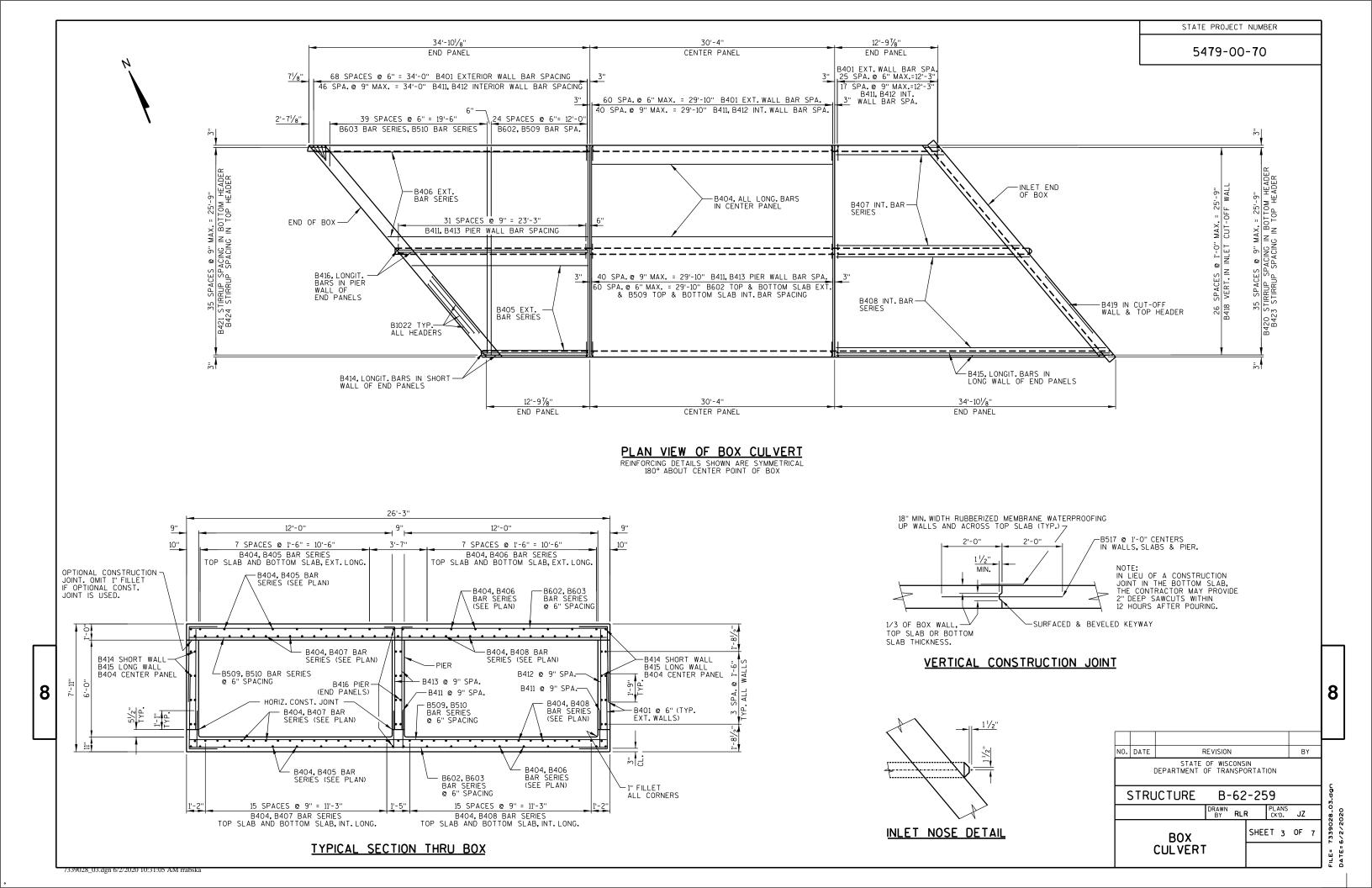
5479-00-70



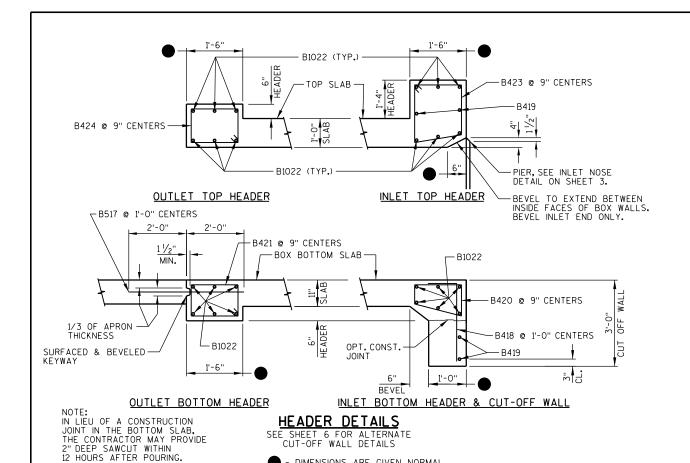
INLET WING BACKFILL DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION B-62-259 STRUCTURE DRAWN BY RLR CROSS SECTION. SHEET 2 OF

QUANTITIES, NOTES & DETAILS



5479-00-70



- DIMENSIONS ARE GIVEN NORMAL TO THE END OF BOX

-EXTEND ¾" FILLER FROM HORIZ. CONST. JOINT TO TOP OF WING (TYP.).

BOX CULVERT EXTERIOR WALL

WING 2

- 3/4" FILLER (TYP.)

WING 3

-B411, B427

WING 1

WING 4

B425 @ 1'-0" SPACING

- 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING (TYP.). EXTEND FROM HORIZ. CONST. JOINT TO TOP OF WALL.

PLAN - CORNER DETAILS

SEE SHEETS 5 & 6 FOR WING DETAILS

-B426 @ 1'-0" SPACING

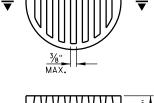
-END OF BOX

-B411**,** B427

NOMINAL RODENT SHIELD NOTES:

ORIENT SHIELD SO SLOTS ARE VERTICAL.

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 × 1=NOTH STAINLESS WITH TWO OR MORE NO. 10 × 1-INCH STAINLESS STEEL SHEET METAL SCREWS. THE RODENT SHIELD, PIPE COUPLING AND SCREWS, SHALL BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".



① - 6"

SECTION RS-RS

RODENT SHIELD

① - DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

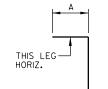
BILL OF BARS

UNCOATED 37,445 LBS.

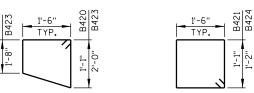
	NO.			BAR	
MARK	REQ'D.	LENGTH	BENT	SERIES	LOCATION
B401	624	6'-4"	Х		BOX CORNERS - EXT VERT./TRANS.
B602	222	25'-11"			TOP & BOTTOM SLAB - EXT TRANS.
B603	160	14'-1"		<u>S</u>	TOP & BOTTOM SLAB - END PANEL - EXT TRANS.
B404	134	30'-0"			CENTER PANEL - ALL - LONGIT.
B405	32	17'-6''		S	END PANEL - SHORT SIDE - EXT LONGIT.
B406	32	29'-4"		S	END PANEL - LONG SIDE - EXT LONGIT.
B407	64	18'-1"		S	END PANEL - SHORT SIDE - INT LONGIT.
B408	64	28'-9"		S	END PANEL - LONG SIDE - INT LONGIT.
B509	222	25'-11"			TOP & BOTTOM SLAB - INT TRANS.
B510	160	14'-1"		S	TOP & BOTTOM SLAB - END PANEL - INT TRANS.
B411	425	2'-4"			WALL DOWELS - BOTTOM - VERT.
B412	212	6'-3"			WALLS - INTERIOR - VERT.
B413	210	6'-11"	Х		WALLS - PIER - VERT.
B414	24	12'-7''			END PANEL - SHORT WALL - LONGIT.
B415	24	34'-0"			END PANEL - LONG WALL - LONGIT.
B416	28	23'-4"			END PANEL - PIER WALL - LONGIT.
B517	175	4'-0"			CONSTRUCTION JOINT DOWEL - LONGIT.
B418	27	3'-6"	Х		INLET CUT OFF WALL - VERT.
B419	4	33'-10"			INLET CUT OFF WALL & TOP HEADER - TRANS.
B420	36	5'-3"	Х		INLET BOTTOM HEADER - STIRRUP - VERT.
B421	36	5'-8"	Х		OUTLET BOTTOM HEADER - STIRRUP - VERT.
B1022	24	33'-10"			HEADERS - ALL - TRANS.
B423	36	7'-2"	Х		INLET TOP HEADER - STIRRUP - VERT.
B424	36	5'-10"	Х		OUTLET TOP HEADER - STIRRUP - VERT.
B425	10	5'-0"	Х		BOX CORNER @ WING 1 - HORIZ.
B426	10	5'-1"	Х		BOX CORNER @ WING 2 - HORIZ.
B427	3	7'-7"			BOX CORNERS @ INLET - VERT.
DIMENSIONS IN RENDING DETAILS ARE OUT TO OUT OF RAR					

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

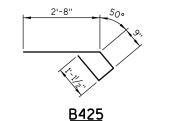
S - LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



MARK	А	
B401	1'-9"	
B413	8"	
B418	1'-0''	
B418	1'-0"	



B420, B423



B426

B421, B424

BAR SERIES TABLE

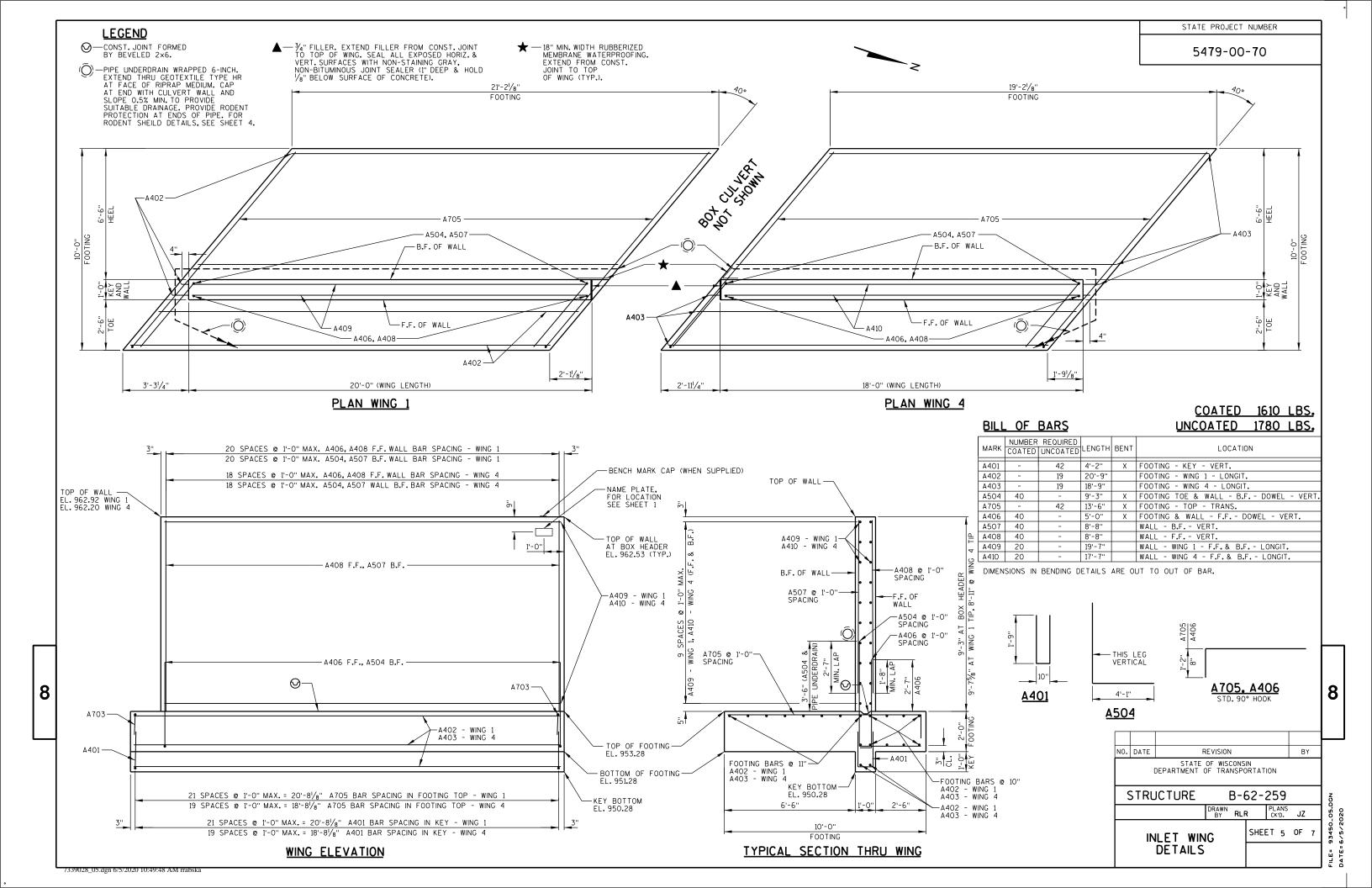
MARK	NO. REQUIRED	LENGTH
B603	4 SERIES OF 40	2'-5" TO 25'-8"
B405	4 SERIES OF 8	13'-1" TO 21'-11"
B406	4 SERIES OF 8	24'-11" TO 33'-9"
B407	4 SERIES OF 16	13'-4" TO 22'-10"
B408	4 SERIES OF 16	24'-0" TO 33'-5"
B510	4 SERIES OF 40	2'-5" TO 25'-8"

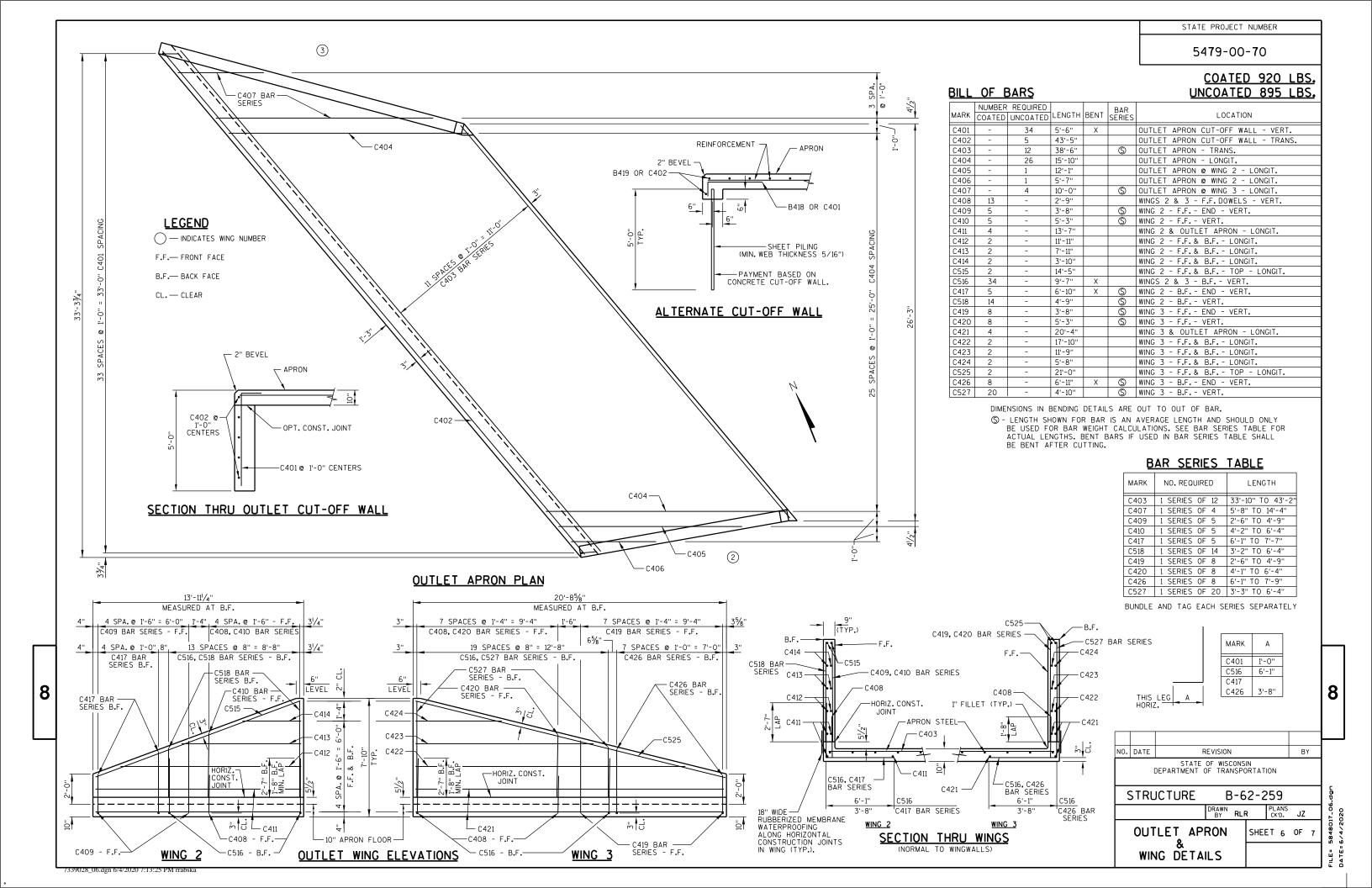
BUNDLE AND TAG EACH SERIES SEPARATELY

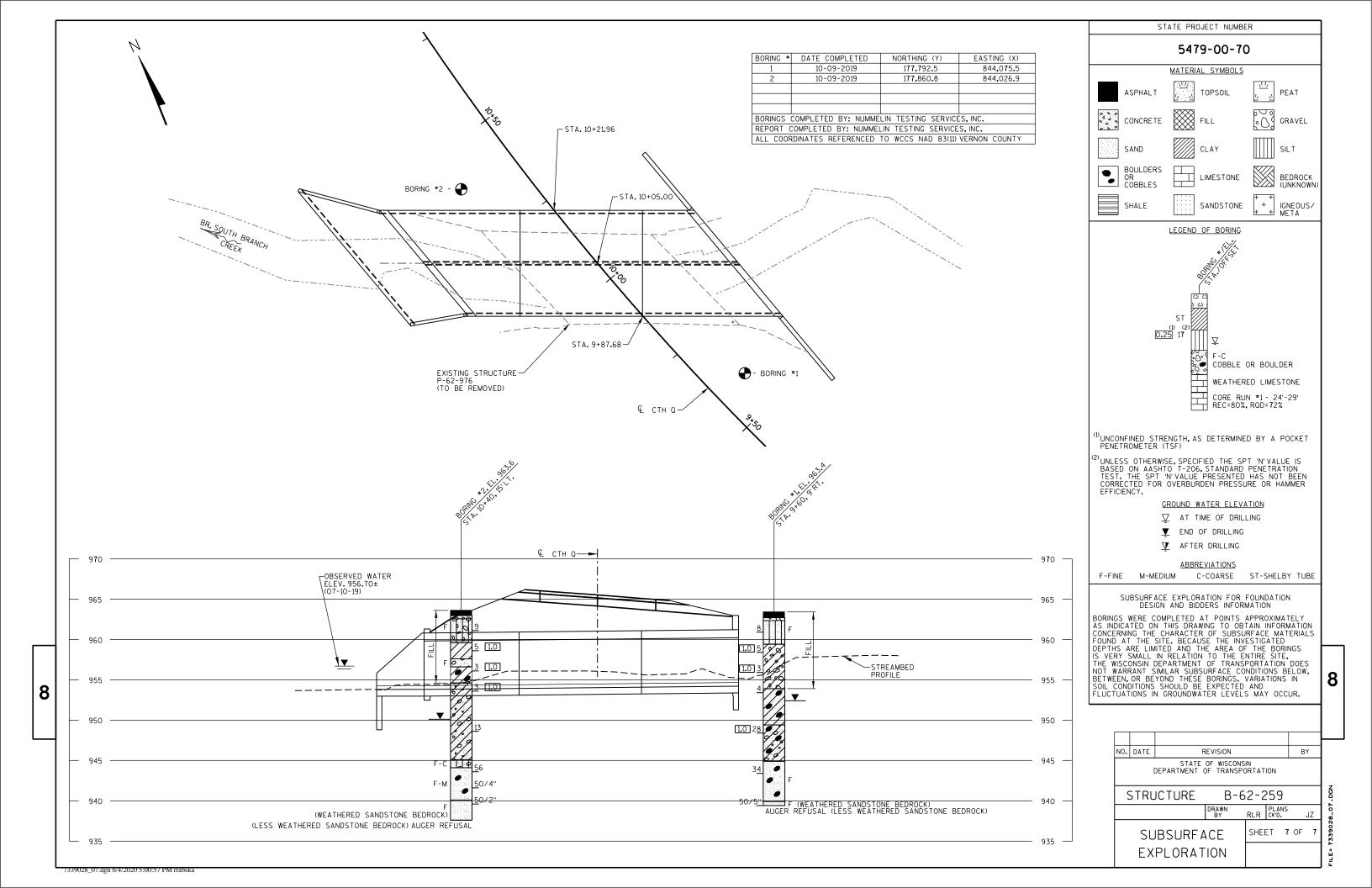
NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

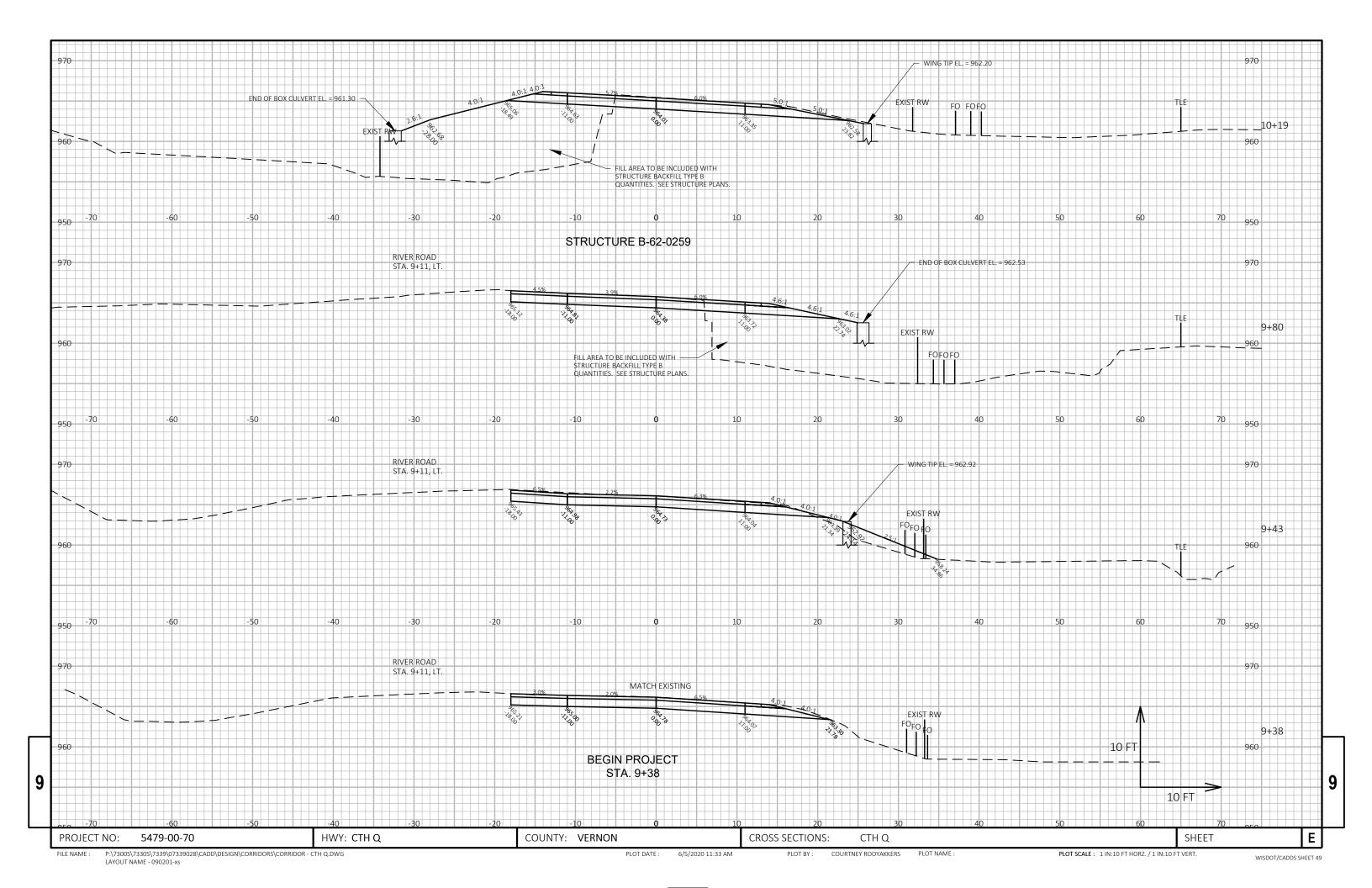
STRUCTURE B-62-259 DRAWN BY RLR JΖ BOX SHEET 4 OF 7 **CUL VERT**

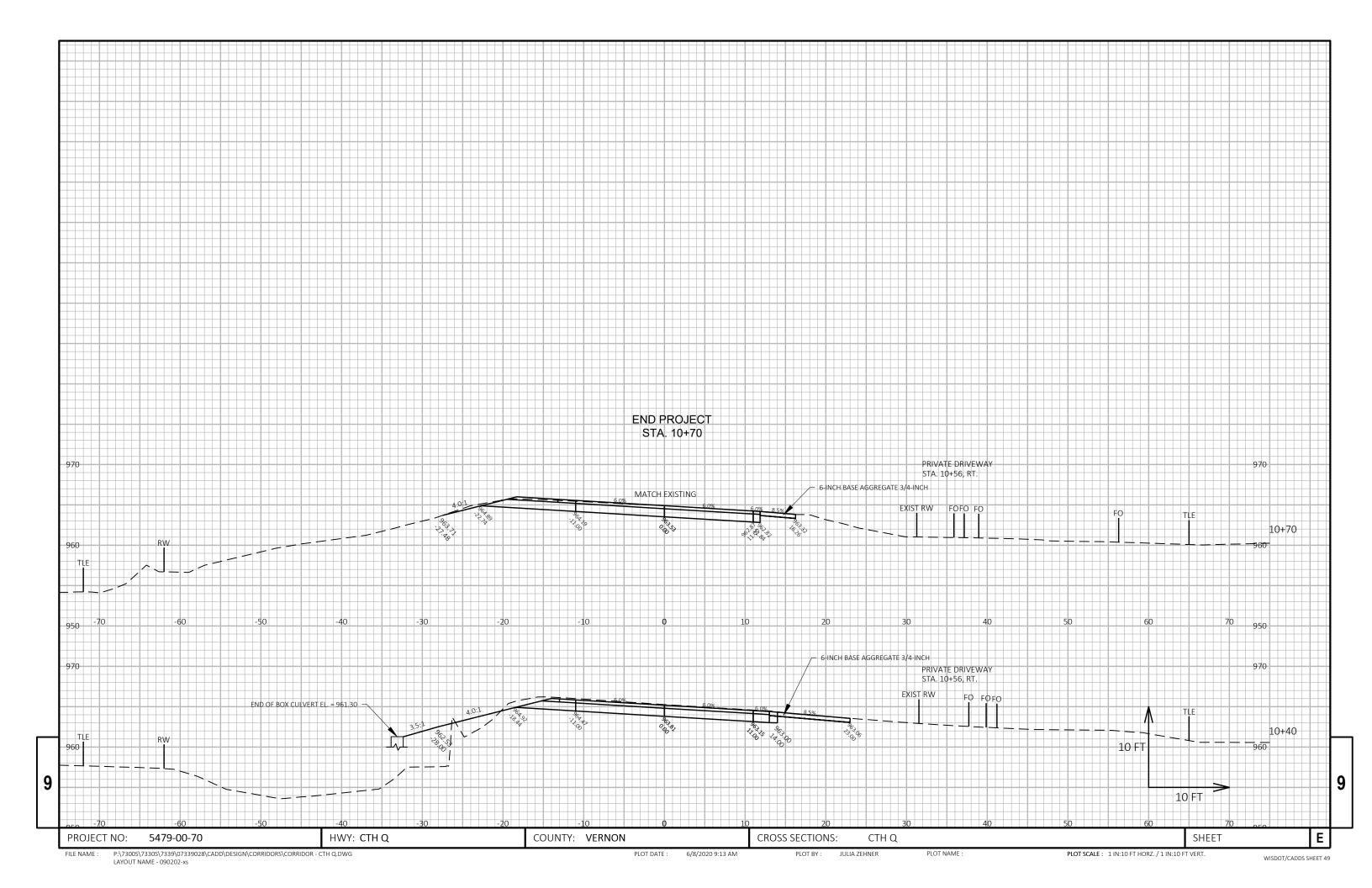
DETAILS



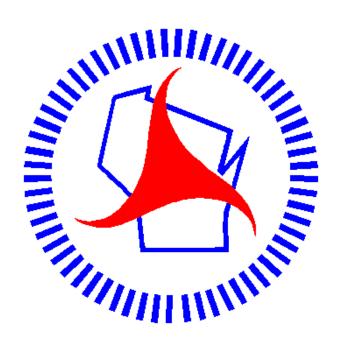








Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov