EAU | NOVEMBER 2024

PROJECT ID: 9000-00-74/75

WITH: N/A

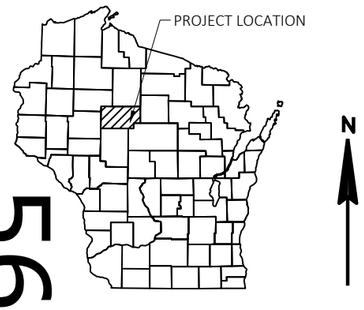
COUNTY: TAYLOR

56

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile (includes erosion control details)
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 72



DESIGN DESIGNATION

A.A.D.T.	(2025)	=	2100
A.A.D.T.	(2045)	=	2300
D.H.V.		=	11.0
D.D.		=	61/39
T.		=	11.7%
DESIGN SPEED		=	60 MPH
ESALS		=	350,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9000-00-74	WISC 2025069	1
9000-00-75	WISC 2025070	1

MEDFORD - MERRILL

CULVERT C-60-0020

STH 64

TAYLOR COUNTY

STATE PROJECT NUMBER

9000-00-74

MEDFORD - MERRILL

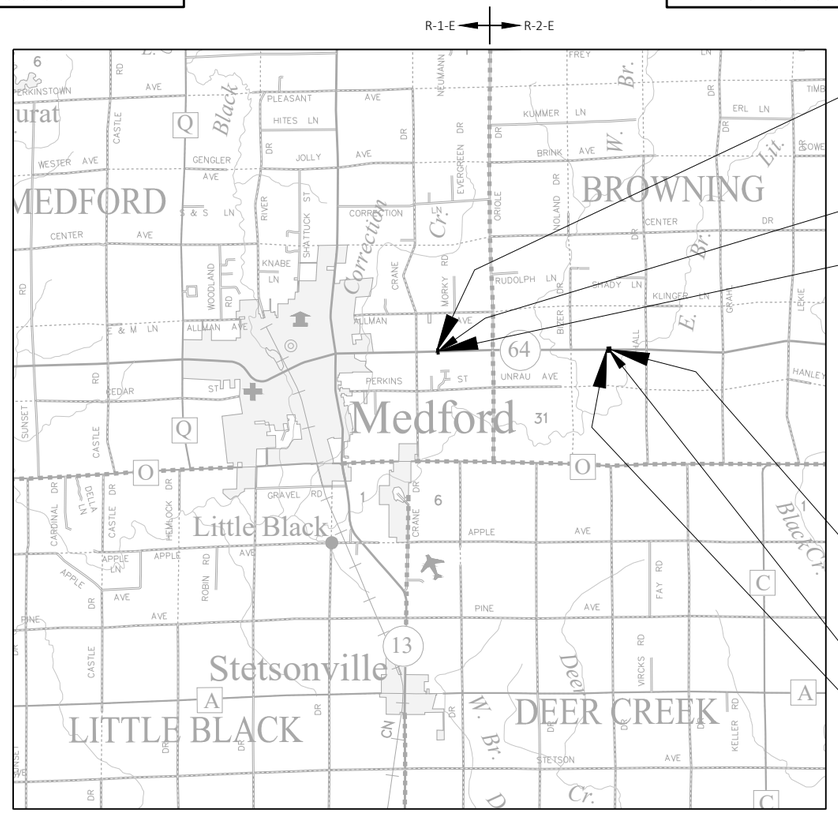
WATERWAY CULVERT C-60-0021

STH 64

TAYLOR COUNTY

STATE PROJECT NUMBER

9000-00-75



BEGIN PROJECT 9000-00-75
STA 71+00
Y = 340,608.77
X = 659,790.43

STRUCTURE C-60-0021

END PROJECT 9000-00-75
STA 73+00
Y = 340,613.76
X = 659,990.37

T-31-N

T-30-N

END PROJECT 9000-00-74
STA 192+25
Y = 340,727.07
X = 671,923.61

STRUCTURE C-60-0020

BEGIN PROJECT 9000-00-74
STA 189+00
Y = 340,727.06
X = 671,598.61

LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 0.062 MI. - 9000-00-74
0.038 MI. - 9000-00-75

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), TAYLOR COUNTY NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

MSA

1702 Pankratz Street, Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664

WISCONSIN JOSHUA R. SWENO E-44384 WAUNAKEE WI PROFESSIONAL ENGINEER

DATE: 7/16/2024 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	MSA PROFESSIONAL SERVICES, INC.
Project Manager	CHARLES HUBBARD
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	REGIONAL SUPERVISOR

APPROVED FOR THE DEPARTMENT

DATE: 07/23/2024 Brett Cunningham

E

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED 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.

THE 6.5" HMA PAVEMENT SHALL CONSIST OF TWO 2" UPPER LAYERS, AND A 2 ½" LOWER LAYER. USE 12.5MM NOMINAL AGGREGATE FOR ALL LAYERS.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

WETLANDS ARE PRESENT. AREAS OUTSIDE THE SLOPE INTERCEPTS SHALL NOT BE DISTURBED IN THE WETLAND AREAS.

WISDOT CONTACT

WISCONSIN DEPARTMENT OF TRANSPORTATION
ATTN: HEATH HAGNER, P.E.
718 W CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: (920) 434-2128
EMAIL: HEATH.HAGNER@ISGINC.COM

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES
ATTN: WENDY HENNIGES
107 SUTLIFF AVENUE
RHINELANDER, WI 54501
PHONE: (715) 365-8916
EMAIL: WENDY.HENNIGES@WISCONSIN.GOV

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC.
ATTN: JOSH SWENO, P.E.
1702 PANKRATZ STREET
MADISON, WI 53704
PHONE: (608) 355-8852
EMAIL: JSWENO@MSA-PS.COM

UTILITIES

ELECTRIC

MEDFORD ELECTRIC UTILITY
ATTN: JON VISSERS
639 SOUTH SECOND STREET
MEDFORD, WI 54451
PHONE: (715) 748-1521
EMAIL: JVISSERS@MEDFORDWI.GOV

COMMUNICATIONS

TDS TELECOM
ATTN: RODNEY LINDEMANN
9508 S WASHINGTON AVE.
MARSHFIELD, WI 54449
PHONE: (715) 743-5933
EMAIL: RODNEY.LINDEMANN@TDSTELECOM.COM

GAS

WE ENERGIES
ATTN: SANDRA BEHLEN
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
PHONE: (715) 421-7277
EMAIL: SANDRA.BEHLEN@WE-ENERGIES.COM

RUNOFF COEFFICIENT TABLE

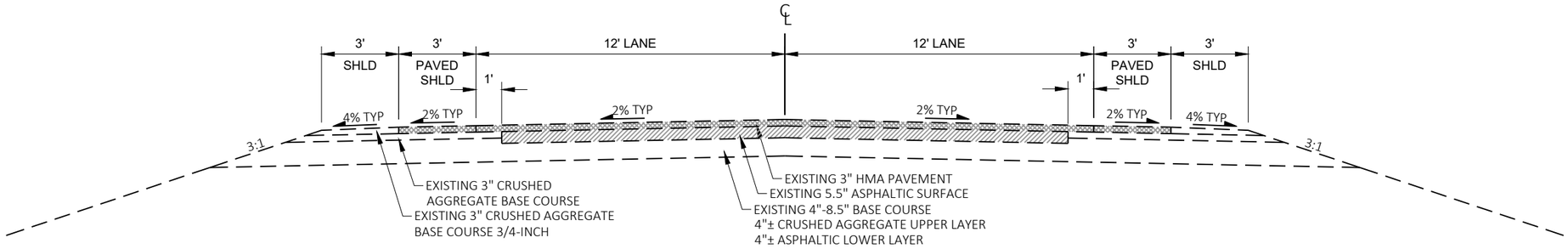
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

*DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

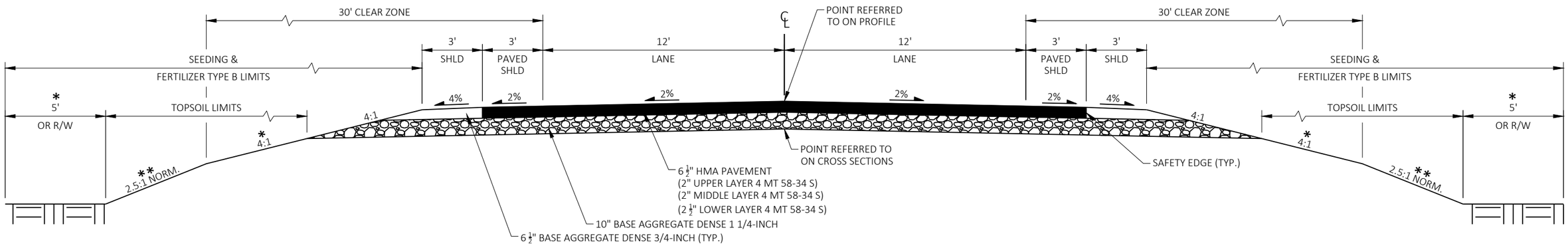
TOTAL PROJECT AREA = 9000-00-74 - 0.71 ACRES, & 9000-00-75 - 0.42 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 9000-00-74 - 0.80 ACRES, & 9000-00-75 - 0.48 ACRES

2



EXISTING TYPICAL SECTION

STA 189+00 - STA 192+25
STA 71+00 - STA 73+00



TYPICAL FINISHED SECTION

STA 189+00 - STA 192+25
STA 71+00 - STA 73+00

EROSION CONTROL NOTES:

* MULCH

** EROSION MAT URBAN CLASS I, TYPE B LIMITS

PROJECT NO: 9000-00-74/75	HWY: STH 64	COUNTY: TAYLOR	TYPICAL SECTIONS	SHEET 3	E

PCMS MESSAGE

FRAME 1:	FRAME 2:
HWY 64 TO CLOSE	XXXXDAY XX/XX

DETOUR ROUTE

DETOUR ROUTE I.D. 9000-00-74 & 9000-00-75

STH 13 - STH 29 - STH 97
42.0 MILES
MEDFORD - MERRILL

N

TRAFFIC CONTROL SIGNING GENERAL NOTES

1. DRAWINGS SHOW TRAFFIC CONTROL DETOUR FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON SITE CONDITIONS AS DIRECTED BY THE ENGINEER. ALL CHANGES TO THE TRAFFIC CONTROL DETOUR PLAN SHALL BE REVIEWED WITH THE PROJECT ENGINEER.

2. TRAFFIC CONTROL PLANS ARE NOT TO SCALE.

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

4. COVER, REMOVE, OR ALTER ANY EXISTING OR PROPOSED SIGNS THAT DISPLAY A CONFLICTING MESSAGE WITH THE PROPOSED DETOUR ROUTE FOR THE PHASE THAT IS ACTIVE.

5. INSTALL ALL DETOUR ROUTE MARKER ASSEMBLIES ON SEPARATE POSTS FROM EXISTING ROUTE MARKER SIGNAGE.

6. MAINTAIN ACCESS TO DRIVEWAYS AND DEAD END SIDE ROADS AT ALL TIMES.

7. SEE SDD:
BARRICADES AND SIGNS FOR MAINLINE CLOSURES
BARRICADES AND SIGN FOR VARIOUS CLOSURES
DETOUR SIGNING FOR MAINLINE CLOSURES

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- Ⓐ TYPE A WARNING LIGHT (FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- 00 EXISTING SIGN
- EXISTING SIGN TO BE COVERED
- * UTILIZE S.D.D. "BARRICADES & SIGNS FOR MAINLINE CLOSURES" DETAIL D AT PROJECT ENDS.

DETOUR / WEST / 64 — M4-8 24"X12", M3-4 24"X12", M1-6 24"X24" — (1)

DETOUR / EAST / 64 — M4-8 24"X12", M3-2 24"X12", M1-6 24"X24" — (2)

BRIDGE OUT 3 1/2 MILES AHEAD — R11-3C 60"X24" — (3)

BRIDGE OUT 4 1/2 MILES AHEAD — R11-3C 60"X24" — (4)

PROJECT I.D. 9000-00-75 WORK AREA

PROJECT I.D. 9000-00-74 WORK AREA

SEE TRAFFIC CONTROL DETOUR DETAIL 1 FOR TRAFFIC CONTROL IN THIS AREA

SEE TRAFFIC CONTROL DETOUR DETAIL 2 FOR TRAFFIC CONTROL IN THIS AREA

SEE TRAFFIC CONTROL DETOUR DETAIL 3 FOR TRAFFIC CONTROL IN THIS AREA

SEE TRAFFIC CONTROL DETOUR DETAIL 4 FOR TRAFFIC CONTROL IN THIS AREA

SEE TRAFFIC CONTROL DETOUR DETAIL 5 FOR TRAFFIC CONTROL IN THIS AREA

DETOUR ROUTE

TAYLOR COUNTY

CLARK COUNTY

MARATHON COUNTY

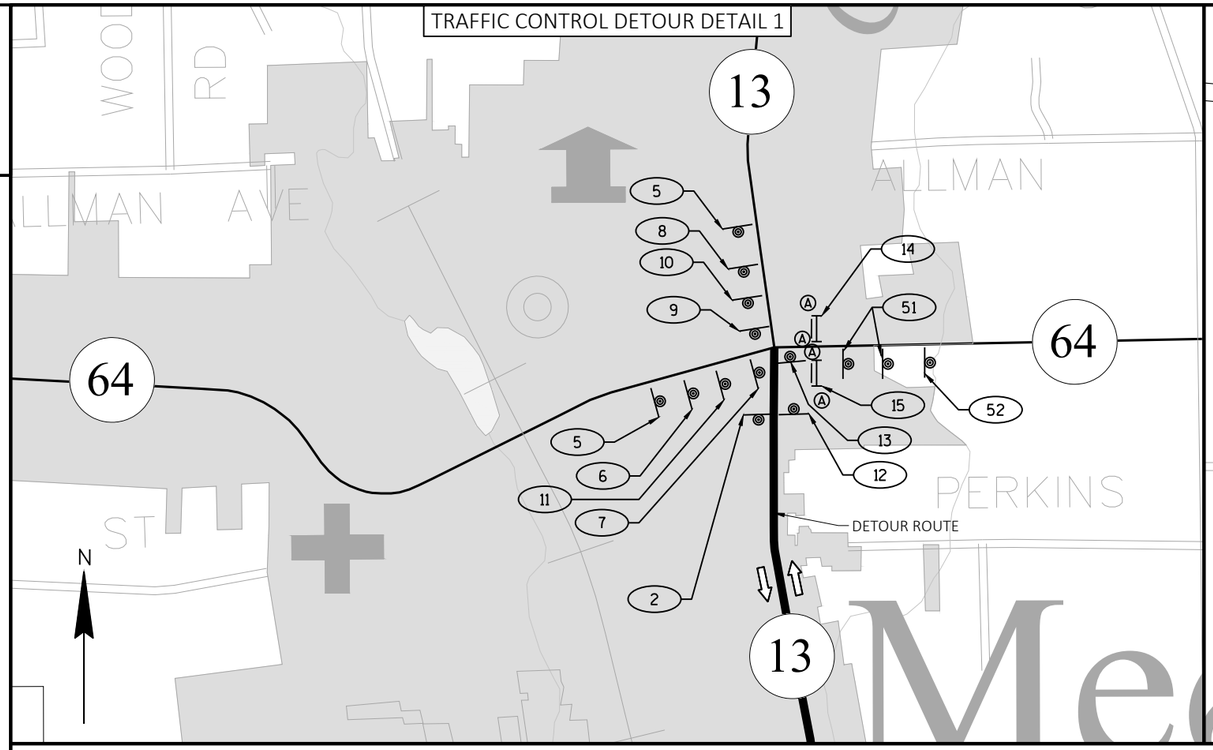
PROJECT NO: 9000-00-74/75	HWY: STH 64	COUNTY: TAYLOR	TRAFFIC CONTROL DETOUR ROUTE	SHEET 4 E

FILE NAME : G:\00\00093\00093742\CADD\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027001-dt

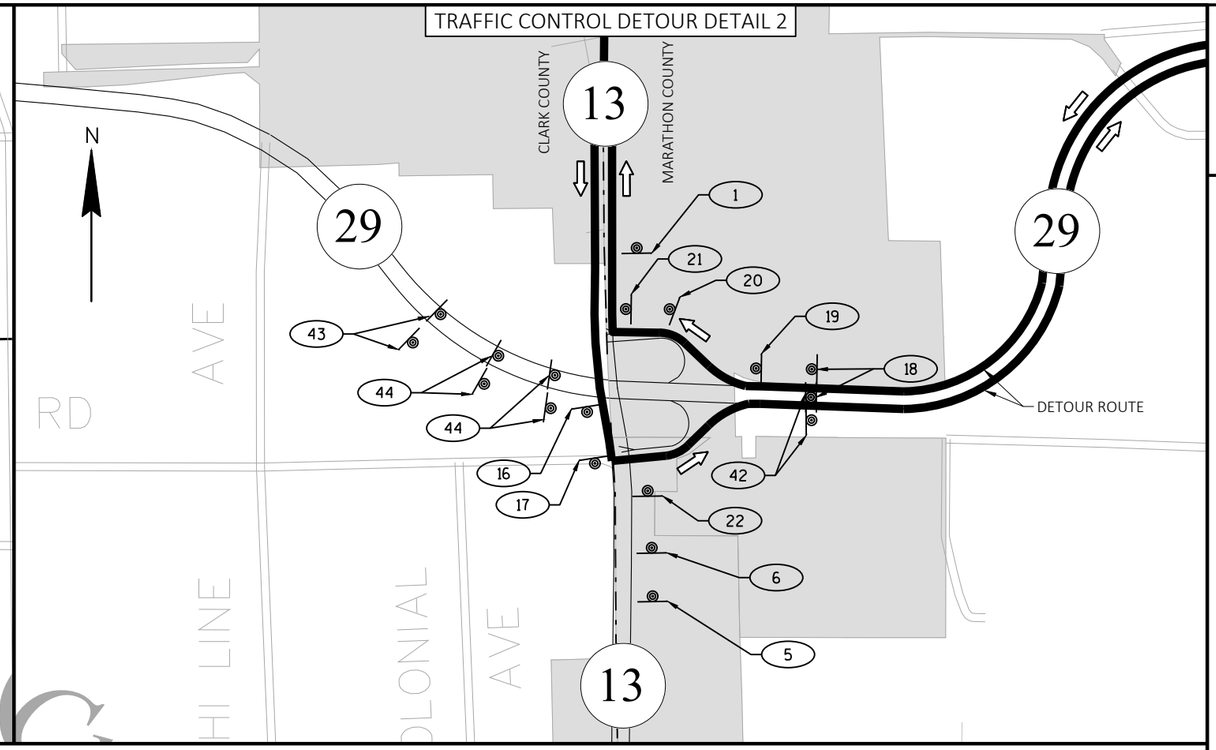
PLOT DATE : 7/15/2024 11:56 AM PLOT BY : CONNOR GIRTEN PLOT NAME : PLOT SCALE : 1 IN:2 MI

WISDOT/CADDS SHEET 42

TRAFFIC CONTROL DETOUR DETAIL 1



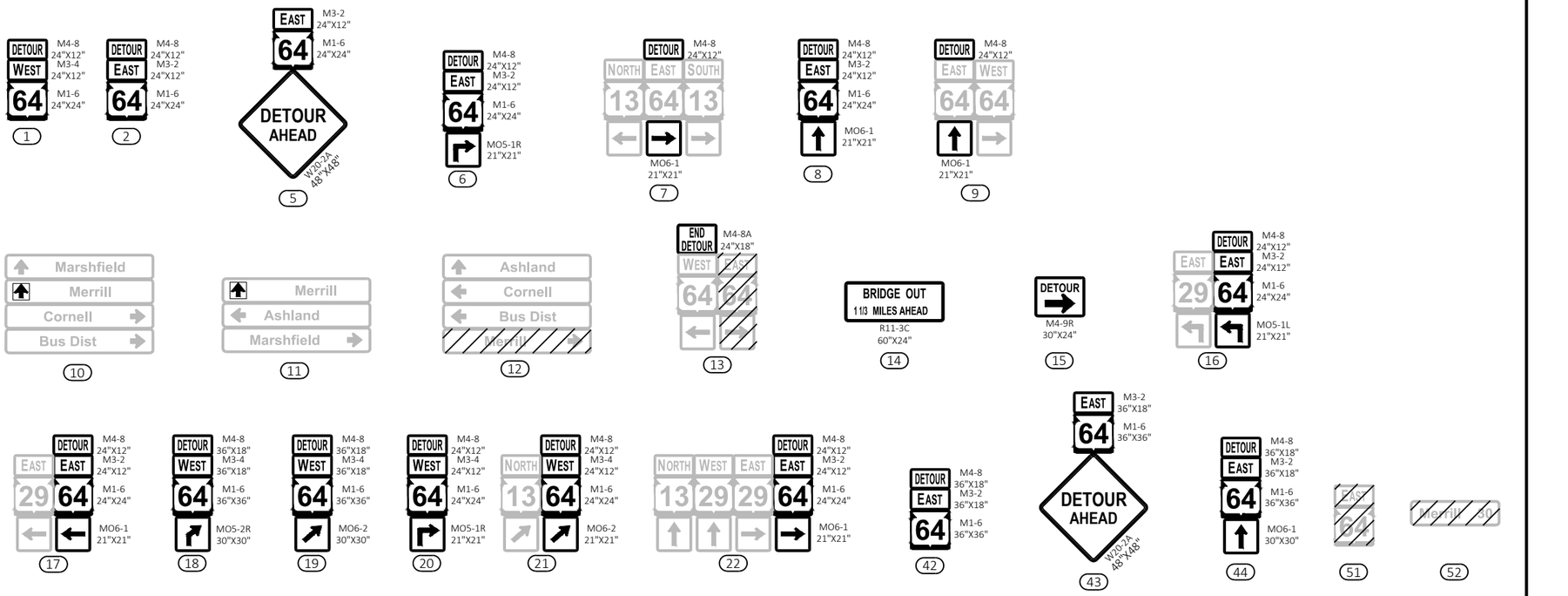
TRAFFIC CONTROL DETOUR DETAIL 2



2

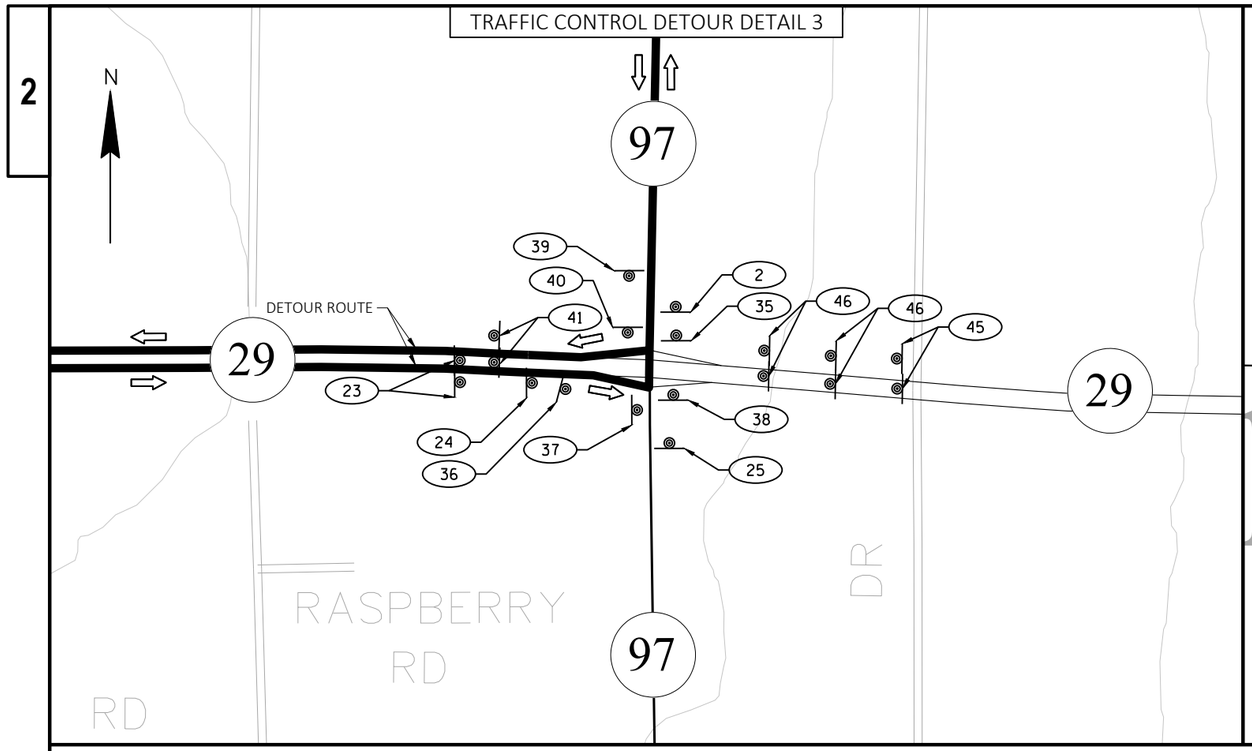
LEGEND

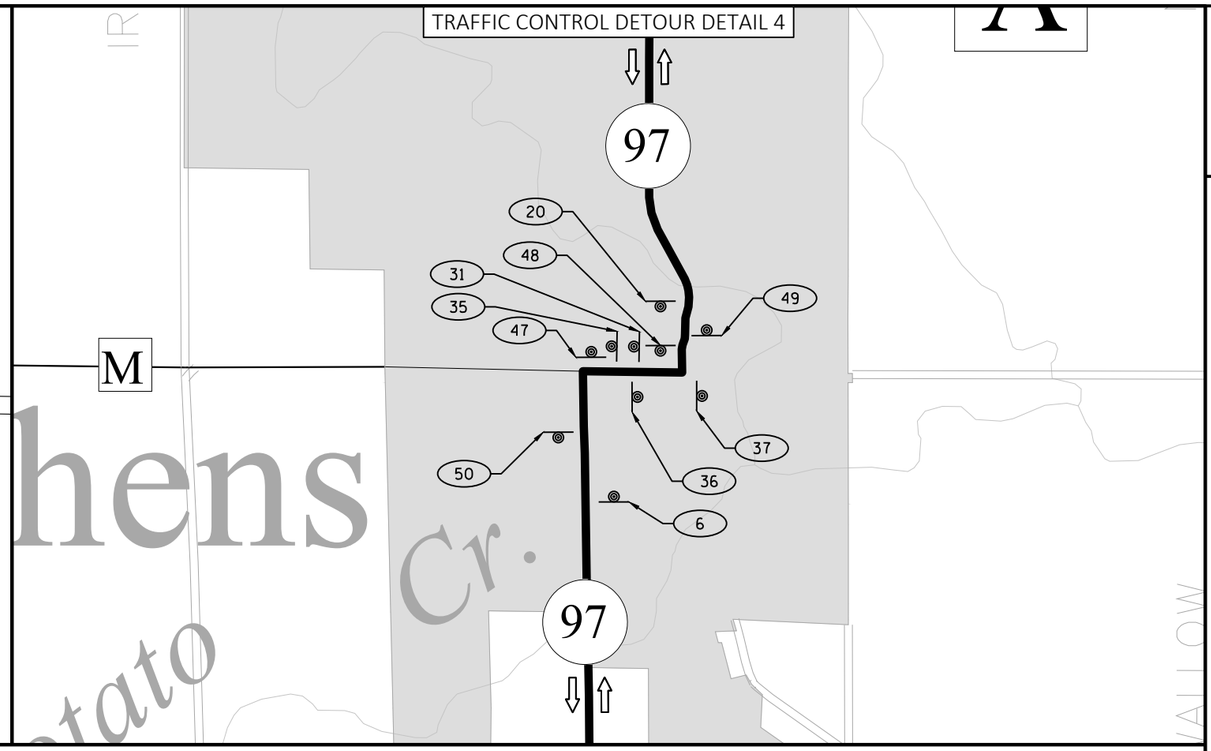
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- 00 EXISTING SIGN
- 00 EXISTING SIGN TO BE COVERED



PROJECT NO: 9000-00-74/75	HWY: STH 64	COUNTY: TAYLOR	TRAFFIC CONTROL DETOUR ROUTE	SHEET 5	E

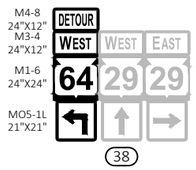
FILE NAME : G:\00\00093\00093742\CADD\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027002-dt
PLOT DATE : 7/15/2024 11:56 AM
PLOT BY : CONNOR GIRTEN
PLOT NAME :
PLOT SCALE : 1 IN:2000 FT
WISDOT/CADDS SHEET 44

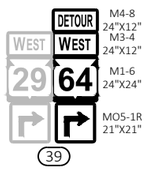


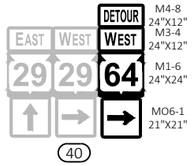


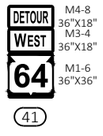
LEGEND

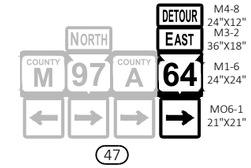
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE A WARNING LIGHT (FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD
- EXISTING SIGN
- EXISTING SIGN TO BE COVERED

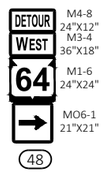












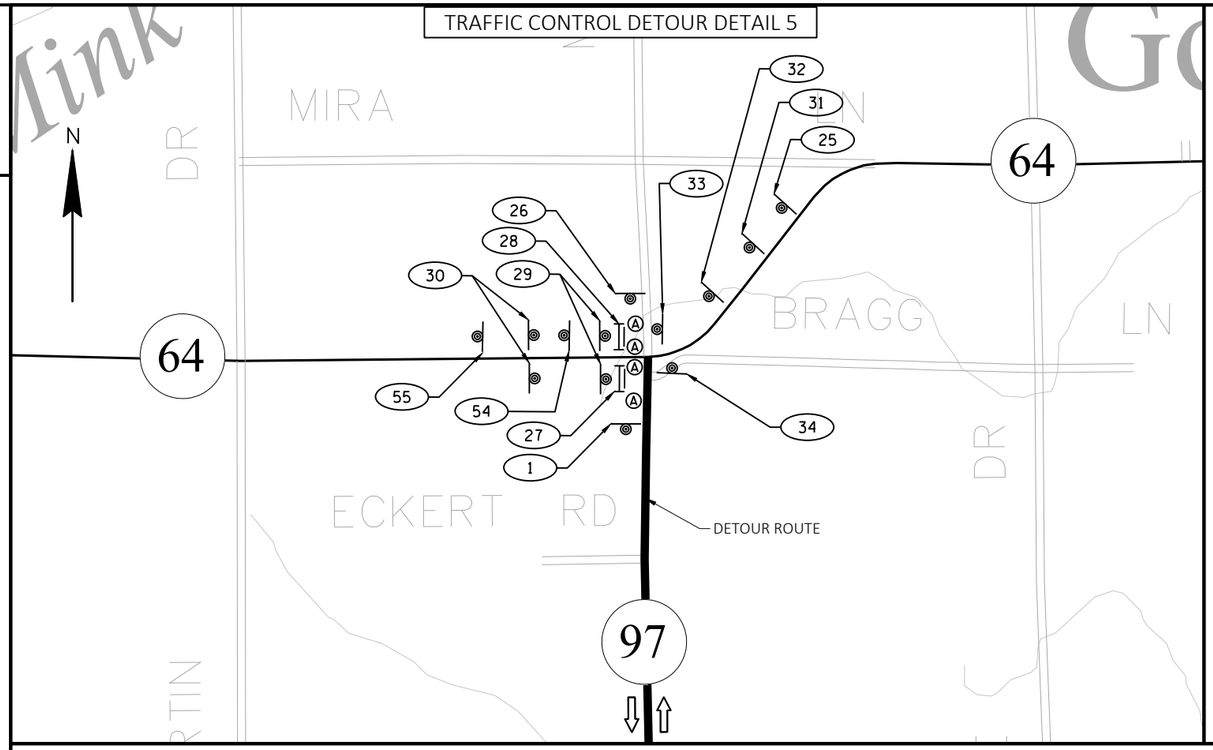
PROJECT NO: 9000-00-74/75	HWY: STH 64	COUNTY: TAYLOR	TRAFFIC CONTROL DETOUR ROUTE	SHEET 6	E

FILE NAME : G:\00\00093\00093742\CADD\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027003-dt

PLOT DATE : 7/15/2024 11:57 AM PLOT BY : CONNOR GIRTEN PLOT NAME : PLOT SCALE : 1 IN:2000 FT

WISDOT/CADDS SHEET 44

TRAFFIC CONTROL DETOUR DETAIL 5

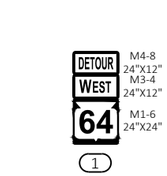


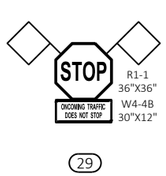
FRAME INTENTIONALLY LEFT BLANK

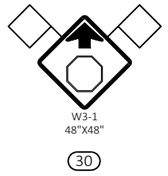
2

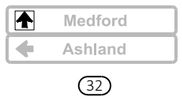
LEGEND

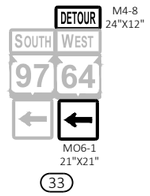
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- 00 EXISTING SIGN
- EXISTING SIGN TO BE COVERED

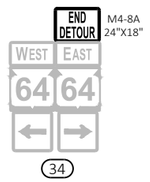


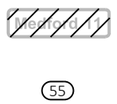












PROJECT NO: 9000-00-74/75	HWY: STH 64	COUNTY: TAYLOR	TRAFFIC CONTROL DETOUR ROUTE	SHEET 7	E

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	9000-00-74 Qty	9000-00-75 Qty
0002	201.0110	Clearing	SY	96.000		96.000
0004	201.0210	Grubbing	SY	96.000		96.000
0006	203.0211.S	Abatement of Asbestos Containing Material (structure) 01. C-60-1096	EACH	1.000	1.000	
0008	203.0220	Removing Structure (structure) 01. C-60-1096	EACH	1.000	1.000	
0010	203.0220	Removing Structure (structure) 02. C-60-1352	EACH	1.000		1.000
0012	204.0165	Removing Guardrail	LF	576.000	300.000	276.000
0014	205.0100	Excavation Common	CY	988.000	565.000	423.000
0016	206.2001	Excavation for Structures Culverts (structure) 01. C-60-20	EACH	1.000	1.000	
0018	206.2001	Excavation for Structures Culverts (structure) 02. C-60-21	EACH	1.000		1.000
0020	208.0100	Borrow	CY	1,637.000	769.000	868.000
0022	210.2500	Backfill Structure Type B	TON	3,715.000	2,440.000	1,275.000
0024	213.0100	Finishing Roadway (project) 01. 9000-00-74	EACH	1.000	1.000	
0026	213.0100	Finishing Roadway (project) 02. 9000-00-75	EACH	1.000		1.000
0028	305.0110	Base Aggregate Dense 3/4-Inch	TON	171.000	104.000	67.000
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,427.000	878.000	549.000
0032	311.0110	Breaker Run	TON	940.000	280.000	660.000
0034	455.0605	Tack Coat	GAL	178.000	110.000	68.000
0036	460.2000	Incentive Density HMA Pavement	DOL	420.000	260.000	160.000
0038	460.6244	HMA Pavement 4 MT 58-34 S	TON	643.000	398.000	245.000
0040	504.0100	Concrete Masonry Culverts	CY	328.000	147.000	181.000
0042	505.0400	Bar Steel Reinforcement HS Structures	LB	51,090.000	26,410.000	24,680.000
0044	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	3,270.000	1,870.000	1,400.000
0046	516.0500	Rubberized Membrane Waterproofing	SY	53.000	27.000	26.000
0048	606.0300	Riprap Heavy	CY	160.000	80.000	80.000
0050	618.0100	Maintenance and Repair of Haul Roads (project) 01. 9000-00-74	EACH	1.000	1.000	
0052	618.0100	Maintenance and Repair of Haul Roads (project) 02. 9000-00-75	EACH	1.000		1.000
0054	619.1000	Mobilization	EACH	1.000	0.520	0.480
0056	624.0100	Water	MGAL	24.000	15.000	9.000
0058	625.0100	Topsoil	SY	3,537.000	2,252.000	1,285.000
0060	627.0200	Mulching	SY	3,010.000	1,834.000	1,176.000
0062	628.1504	Silt Fence	LF	1,038.000	750.000	288.000
0064	628.1520	Silt Fence Maintenance	LF	1,038.000	750.000	288.000
0066	628.1905	Mobilizations Erosion Control	EACH	4.000	2.000	2.000
0068	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	2.000	2.000
0070	628.2008	Erosion Mat Urban Class I Type B	SY	527.000	418.000	109.000
0072	628.7504	Temporary Ditch Checks	LF	30.000		30.000
0074	629.0210	Fertilizer Type B	CWT	3.000	1.800	1.200
0076	630.0120	Seeding Mixture No. 20	LB	122.000	76.000	46.000
0078	630.0200	Seeding Temporary	LB	122.000	76.000	46.000
0080	630.0500	Seed Water	MGAL	102.000	64.000	38.000
0082	633.5100	Markers ROW	EACH	16.000	8.000	8.000
0084	638.2602	Removing Signs Type II	EACH	4.000		4.000
0086	638.3000	Removing Small Sign Supports	EACH	4.000		4.000
0088	642.5001	Field Office Type B	EACH	1.000	0.500	0.500
0090	643.0420	Traffic Control Barricades Type III	DAY	4,532.000	2,678.000	1,854.000
0092	643.0705	Traffic Control Warning Lights Type A	DAY	7,416.000	4,532.000	2,884.000
0094	643.0900	Traffic Control Signs	DAY	33,990.000	32,548.000	1,442.000
0096	643.0920	Traffic Control Covering Signs Type II	EACH	4.000	4.000	
0098	643.1050	Traffic Control Signs PCMS	DAY	14.000	7.000	7.000

Line	Item	Item Description	Unit	Total	9000-00-74 Qty	9000-00-75 Qty
0100	643.5000	Traffic Control	EACH	1.000	0.500	0.500
0102	645.0105	Geotextile Type C	SY	840.000	365.000	475.000
0104	645.0120	Geotextile Type HR	SY	385.000	195.000	190.000
0106	646.2020	Marking Line Epoxy 6-Inch	LF	700.000	650.000	50.000
0108	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	1,050.000	650.000	400.000
0110	650.4500	Construction Staking Subgrade	LF	525.000	325.000	200.000
0112	650.5000	Construction Staking Base	LF	525.000	325.000	200.000
0114	650.6501	Construction Staking Structure Layout (structure) 01. C-60-0020	EACH	1.000	1.000	
0116	650.6501	Construction Staking Structure Layout (structure) 02. C-60-0021	EACH	1.000		1.000
0118	650.9911	Construction Staking Supplemental Control (project) 01. 9000-00-74	EACH	1.000	1.000	
0120	650.9911	Construction Staking Supplemental Control (project) 02. 9000-00-75	EACH	1.000		1.000
0122	650.9920	Construction Staking Slope Stakes	LF	525.000	325.000	200.000
0124	690.0150	Sawing Asphalt	LF	170.000	60.000	110.000
0126	715.0502	Incentive Strength Concrete Structures	DOL	1,968.000	882.000	1,086.000
0128	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. Station 190+72.05	EACH	1.000	1.000	
0130	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 02. Station 72+10.43	EACH	1.000		1.000
0132	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	300.000	150.000	150.000
0134	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	300.000	150.000	150.000
0136	SPV.0060	Special 01. Temporary Water Diversion Structure C-60-0020	EACH	1.000	1.000	
0138	SPV.0060	Special 02. Temporary Water Diversion Structure C-60-0021	EACH	1.000		1.000

3

CLEARING AND GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	201.0110 CLEARING SY	201.0210 GRUBBING SY
PROJECT 9000-00-75						
0010	71+67	-	72+08	RT	96	96
				TOTAL 0010	96	96

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF
PROJECT 9000-00-74					
0010	189+94	-	191+47	RT	150
0010	189+98	-	191+51	LT	150
				9000-00-74 TOTAL	300
PROJECT 9000-00-75					
0010	71+30	-	72+98	LT	69
0010	71+30	-	72+00	RT	69
0010	72+17	-	72+90	RT	69
0010	72+21	-	72+90	LT	69
				9000-00-75 TOTAL	276
				TOTAL 0010	576

HMA PAVEMENT ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	THICKNESS (IN)	455.0605 TACK COAT GAL	460.6244 HMA PAVEMENT 4 MT 58-34 S TON
PROJECT 9000-00-74							
0010	189+00	-	192+25	LOWER LAYER	2.5	---	154
0010	189+00	-	192+25	MIDDLE LAYER	2.0	55	122
0010	189+00	-	192+25	UPPER LAYER	2.0	55	122
					9000-00-74 TOTAL	110	398
PROJECT 9000-00-75							
0010	71+00	-	73+00	LOWER LAYER	2.5	---	95
0010	71+00	-	73+00	MIDDLE LAYER	2.0	34	75
0010	71+00	-	73+00	UPPER LAYER	2.0	34	75
					9000-00-75 TOTAL	68	245
					TOTAL 0010	178	643

EXCAVATION COMMON

CATEGORY	STATION	TO	STATION	205.0100 EXCAVATION COMMON CY	208.0100 BORROW CY
9000-00-74					
0010	189+00	-	192+25	565	769
9000-00-75					
0010	71+00	-	73+00	423	868
			TOTAL 0010	988	1,637

BASE AGGREGATE ITEMS

CATEGORY	STATION	TO	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
PROJECT 9000-00-74						
0010	189+00	-	192+25	104	878	15
			9000-00-74 TOTAL	104	878	15
PROJECT 9000-00-75						
0010	71+00	-	73+00	67	549	9
			9000-00-75 TOTAL	67	549	9
			TOTAL 0010	171	1,427	24

TOPSOIL AND SEEDING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
PROJECT 9000-00-74									
0010	189+00	-	192+25	LT	858	0.7	30	30	25
0010	189+00	-	192+25	RT	986	0.8	33	33	28
0010	---	-	---	UNDISTRIBUTED	408	0.3	13	13	11
				9000-00-74 TOTAL	2,252	1.8	76	76	64
PROJECT 9000-00-75									
0010	71+00	-	73+00	LT	535	0.5	20	20	17
0010	71+00	-	73+25	RT	496	0.5	18	18	15
0010	---	-	---	UNDISTRIBUTED	254	0.2	8	8	6
				9000-00-75 TOTAL	1,285	1.2	46	46	38
				TOTAL 0010	3,537	3.0	122	122	102

RW MARKERS

CATEGORY	STATION	LOCATION	633.5100 MARKERS ROW EACH
PROJECT 9000-00-74			
0010	190+15	LT	1
0010	190+25	LT	1
0010	190+80	LT	1
0010	190+90	LT	1
0010	190+40	RT	1
0010	190+50	RT	1
0010	191+10	RT	1
0010	191+20	RT	1
		9000-00-74 TOTAL	8
PROJECT 9000-00-75			
0010	71+19.46	LT	1
0010	71+45	LT	1
0010	72+20	LT	1
0010	72+46.45	LT	1
0010	71+62.09	RT	1
0010	71+85.99	RT	1
0010	72+54.02	RT	1
0010	72+82.09	RT	1
		9000-00-75 TOTAL	8
		TOTAL 0010	16

REMOVING SIGNS

CATEGORY	STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 9000-00-75					
0010	71+91	RT	1	1	OBJECT MARKER
0010	71+92	LT	1	1	OBJECT MARKER
0010	72+25	RT	1	1	OBJECT MARKER
0010	72+26	LT	1	1	OBJECT MARKER
		TOTAL 0010	4	4	

EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7504 TEMPORARY DITCH CHECKS LF
PROJECT 9000-00-74									
0010	189+00	-	192+25	LT	737	300	300	134	---
0010	189+00	-	192+25	RT	791	325	325	214	---
0010	---	-	---	UNDISTRIBUTED	306	125	125	70	---
				9000-00-74 TOTAL	1,834	750	750	418	0
PROJECT 9000-00-75									
0010	71+00	-	73+00	LT	480	65	65	61	10
0010	71+00	-	73+25	RT	500	175	175	30	---
0010	---	-	---	UNDISTRIBUTED	196	48	48	18	20
				9000-00-75 TOTAL	1,176	288	288	109	30
				TOTAL 0010	3,010	1,038	1,038	527	30

DETOUR ITEMS

CATEGORY	LOCATION	DAYS	TRAFFIC CONTROL BARRICADES TYPE III EACH	* 643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	* 643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	TRAFFIC CONTROL SIGNS EACH	* 643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	REMARKS
0010	DETOUR ROUTE	103	4	412	8	824	74	7622	---	DETOUR OVERVIEW
0010	STH 64 - STH 13	103	2	206	4	412	26	2678	2	TRAFFIC CONTROL DETOUR DETAIL 1
0010	STH 29 - STH 13	103	---	---	---	---	70	7210	---	TRAFFIC CONTROL DETOUR DETAIL 2
0010	STH 29 - STH 97	103	---	---	---	---	70	7210	---	TRAFFIC CONTROL DETOUR DETAIL 3
0010	STH 64 - STH 97	103	---	---	---	---	38	3914	---	TRAFFIC CONTROL DETOUR DETAIL 4
0010	STH 64 - STH 97	103	2	206	4	412	24	2472	2	TRAFFIC CONTROL DETOUR DETAIL 5
	9000-00-74 TOTAL 0010			824		1,648		31,106	4	

*ADDITIONAL QUANTITIES LISTED IN TRAFFIC CONTROL ITEMS

3

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	DAYS	TRAFFIC CONTROL BARRICADES TYPE III EACH	* 643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	* 643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	TRAFFIC CONTROL SIGNS EACH	* 643.0900 TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL SIGNS PCMS EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	SIGN CODES
PROJECT 9000-00-74											
0010	EAST LIMITS	7	---	---	---	---	---	---	1	7	
0010	WEST LIMITS	103	7	721	10	1030	4	412	---	---	R11-2, R11-2B, W20-3D, W20-3C
0010	EAST LIMITS	103	7	721	10	1030	4	412	---	---	R11-2, R11-2B, W20-3D, W20-3C
0010	BIZER DR	103	2	206	4	412	3	309	---	---	R11-3C, R11-3, W20-3A
0010	HALL DR	103	2	206	4	412	3	309	---	---	R11-3C, R11-3, W20-3A
		9000-00-74 TOTAL		1,854		2,884		1,442		7	
PROJECT 9000-00-75											
0010	WEST LIMITS	7	---	---	---	---	---	---	1	7	
0010	WEST LIMITS	103	7	721	10	1030	4	412	---	---	R11-2, R11-2B, W20-3D, W20-3C
0010	EAST LIMITS	103	7	721	10	1030	4	412	---	---	R11-2, R11-2B, W20-3D, W20-3C
0010	CRANE DR	103	2	206	4	412	3	309	---	---	R11-3C, R11-3, W20-3A
0010	ORIOLE DR	103	2	206	4	412	3	309	---	---	R11-3C, R11-3, W20-3A
		9000-00-75 TOTAL		1,854		2,884		1,442		7	
		TOTAL 0010		3,708		5,768		2,884		14	

*ADDITIONAL QUANTITIES LISTED IN DETOUR ITEMS

NOTES:

SEE SDD BARRICADES AND SIGNS FOR MAINLINE CLOSURES

SEE SDD BARRICADES AND SIGN FOR VARIOUS CLOSURES

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	646.2020 MARKING LINE EPOXY 6-INCH LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH LF	REMARKS
PROJECT 9000-00-74						
0010	189+00	-	192+25	650	---	CENTERLINE NO PASSING, YELLOW
0010	189+00	-	192+25	---	650	EDGELINES, WHITE
			9000-00-74 TOTAL	650	650	
PROJECT 9000-00-75						
0010	71+00	-	73+00	50	---	CENTERLINE PASSING, YELLOW
0010	71+00	-	73+00	---	400	EDGELINES, WHITE
			9000-00-75 TOTAL	50	400	
			TOTAL 0010	700	1,050	

CONSTRUCTION STAKING ITEMS

CATEGORY	STATION	TO	STATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
PROJECT 9000-00-74						
0010	189+00	-	192+25	325	325	325
			9000-00-74 TOTAL	325	325	325
PROJECT 9000-00-75						
0010	71+00	-	73+00	200	200	200
			9000-00-75 TOTAL	200	200	200
			TOTAL 0010	525	525	525

SAWING ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF
PROJECT 9000-00-74					
0010	189+00	-	---	STH 64	30
0010	192+25	-	---	STH 64	30
				9000-00-74 TOTAL	60
PROJECT 9000-00-75					
0010	71+00	-	---	STH 64	30
	73+00	-	73+25	STH 64	80
				9000-00-75 TOTAL	110
				TOTAL 0010	170

BIRD DETERRENT SYSTEM ITEMS

CATEGORY	STATION	LOCATION	999.2000.S.01 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STATION 190+72.05) EACH	999.2000.S.02 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (02. STATION 72+10.43) EACH
PROJECT 9000-00-74				
0010	190+72	C-60-0020	1	---
		9000-00-74 TOTAL	1	0
PROJECT 9000-00-75				
0010	72+10	C-60-0021	---	1
		9000-00-75 TOTAL	0	1
		TOTAL 0010	1	1

TEMPORARY WATER DIVERSION

CATEGORY	STATION	LOCATION	SPV.0060.01 SPECIAL (01. TEMPORARY WATER DIVERSION STRUCTURE C-60-0020) EACH	SPV.0060.02 SPECIAL (02. TEMPORARY WATER DIVERSION STRUCTURE C-60-0021) EACH
PROJECT 9000-00-74				
0010	190+66	STH 64	1	---
		9000-00-74 TOTAL	1	0
PROJECT 9000-00-75				
0010	72+02	STH 64	---	1
		9000-00-75 TOTAL	0	1
		TOTAL 0010	1	1

TRANSPORTATION PROJECT PLAT NO: 9000-00-24 - 4.01

THAT PART OF THE NW1/4 OF THE SE1/4, AND PART OF THE SW1/4 OF THE NE1/4, SECTION 29, TOWNSHIP 31 NORTH, RANGE 2 EAST, TOWN OF MEDFORD, TAYLOR COUNTY, WISCONSIN

RELOCATION ORDER: STH 64, MEDFORD - MERRILL, CULVERT C-60-1096, TAYLOR COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), TAYLOR COUNTY, NAD83(2011), IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W — (TYPE)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE — CULVERT

SECTION CORNER SYMBOL (18 / 23 24 / 26 25 / 35)
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN (SIGN) — OFF-PREMISE SIGN (#1-25) SIGN
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25) UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY NUMBER	NGS NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

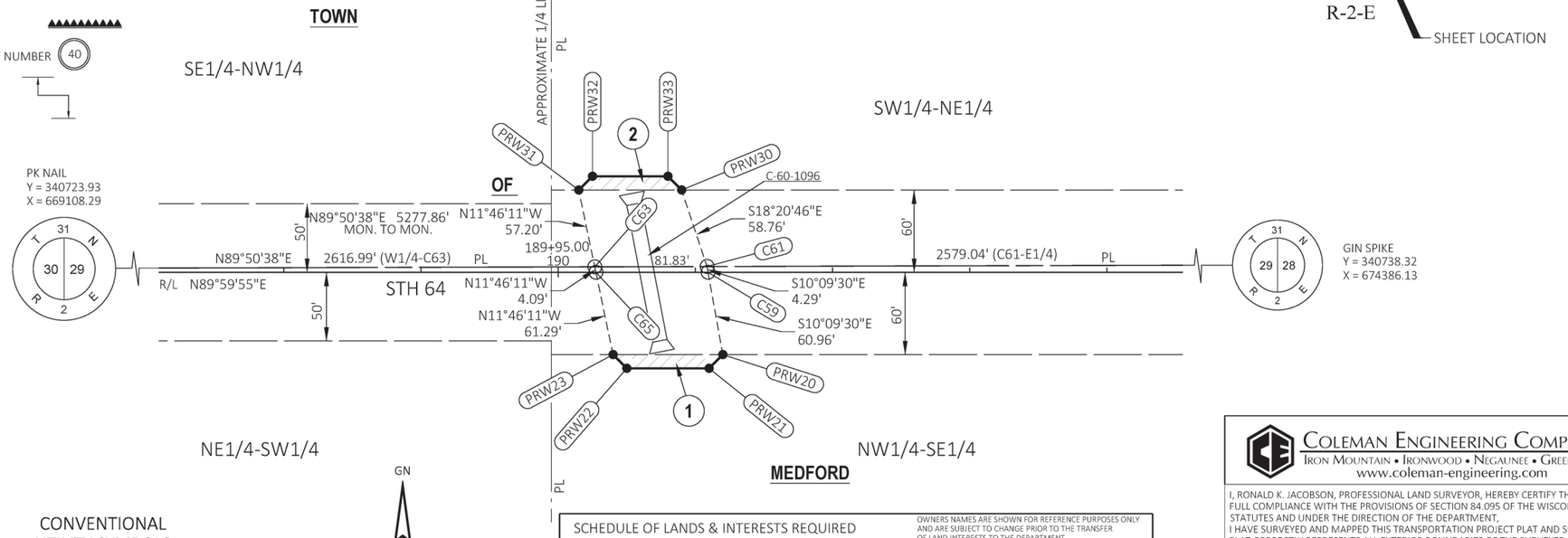
LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ /DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

W	WATER
G	GAS
T	TELEPHONE
OH	OVERHEAD TRANSMISSION LINES
E	ELECTRIC
TV	CABLE TELEVISION
FO	FIBER OPTIC
SAN	SANITARY SEWER
SS	STORM SEWER

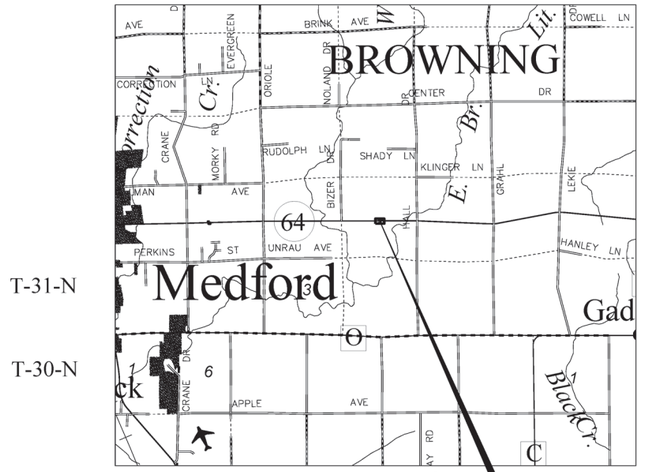
RIGHT-OF-WAY STATION AND OFFSET TABLE		
POINT #	STATION	OFFSET
PRW20	191+20.00	60.00'
PRW21	191+10.00	70.00'
PRW22	190+50.00	70.00'
PRW23	190+40.00	60.00'
PRW30	190+90.00	-60.00'
PRW31	190+15.00	-60.00'
PRW32	190+25.00	-70.00'
PRW33	190+80.00	-70.00'
C59	191+09.25	0.00'
C61	191+08.49	-4.23'
C63	190+26.67	-4.01'
C65	190+27.50	0.00'

RIGHT-OF-WAY COURSE TABLE		
PT.#-PT.#	BEARING	DISTANCE
PRW20-PRW21	S44° 59' 54"W	14.14'
PRW21-PRW22	S89° 59' 55"W	60.00'
PRW22-PRW23	N45° 00' 02"W	14.14'
PRW31-PRW32	N44° 59' 55"E	14.14'
PRW32-PRW33	N89° 59' 55"E	55.00'
PRW33-PRW30	S45° 00' 05"E	14.14'



GN

SCALE, FEET
0 50 100



GN

SCHEDULE OF LANDS & INTERESTS REQUIRED							
OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.							
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	PLE S.F.	TLE S.F.
1	JIM H. & SUSAN K. LAHER	FEE	0.016	0.119	0.135	---	---
2	JERRELL & JELAINE CARSTENSEN	FEE	0.015	0.101	0.116	---	---

NOTES:

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

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

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 64 ESTABLISHED FROM PREVIOUS PROJECT DJ6396.

DOCUMENT#: **389243**
Recorded **October-10-2023 at 8:52 AM**
JAYMI S KOHN
REGISTER OF DEEDS
TAYLOR COUNTY, WI
Pages: **1** Fee Amount: **$25.00**

Return To: **WisDOT - NW Region - Eau Claire**
***The above recording information verifies this document has been electronically recorded **

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9000-00-24 - 4.01

COLEMAN ENGINEERING COMPANY
IRON MOUNTAIN • IRONWOOD • NEGAUNEE • GREEN BAY
www.coleman-engineering.com

I, RONALD K. JACOBSON, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN RONALD K. JACOBSON S-2059 IRONWOOD, MI LAND SURVEYOR

SIGNATURE: _____ DATE: 10-6-2023
PRINT NAME: RONALD K. JACOBSON
REGISTRATON NUMBER: S-2059
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

SIGNATURE: Aaron Gustafson DATE 10/06/2023
PRINT NAME: AARON GUSTAFSON T[illegible]SOR

FILE NAME : I:\JOB FILES\210000\211020 - WISDOT - STH 64 CULVERT C-60-0021, TAYLOR COUNTY (9000-00-05)\DRAWINGS\90000005\FINAL_WORKING DRAWING FOR TPP.DWG
PLOT DATE : 10/6/2023 2:06 PM PLOT BY : ANDY MCRAE PLOT NAME : PLOT SCALE : 1 IN:100 FT
APPRAISAL PLAT DATE : 10-6-2023

TRANSPORTATION PROJECT PLAT NO: 9000-00-25 - 4.01

THAT PART OF THE NE1/4 OF THE SW1/4, AND PART OF THE SE1/4 OF THE NW1/4, SECTION 25, TOWNSHIP 31 NORTH, RANGE 1 EAST, TOWN OF MEDFORD, TAYLOR COUNTY, WISCONSIN

RELOCATION ORDER: STH 64, MEDFORD - MERRILL, WATERWAY CULVERT C-60-1352, TAYLOR COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), TAYLOR COUNTY, NAD83(2011), IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE (P.L.)
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) (W (TYPE))
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING TO BE REMOVED
BRIDGE CULVERT

SECTION CORNER SYMBOL (18, 13, 23, 24, 26, 25, 35, 36, 1, 6, 9)
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN (SIGN)
OFF-PREMISE SIGN (#1-25 SIGN)

R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	⌀
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	▼	▽

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)

PARCEL NUMBER (25) UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

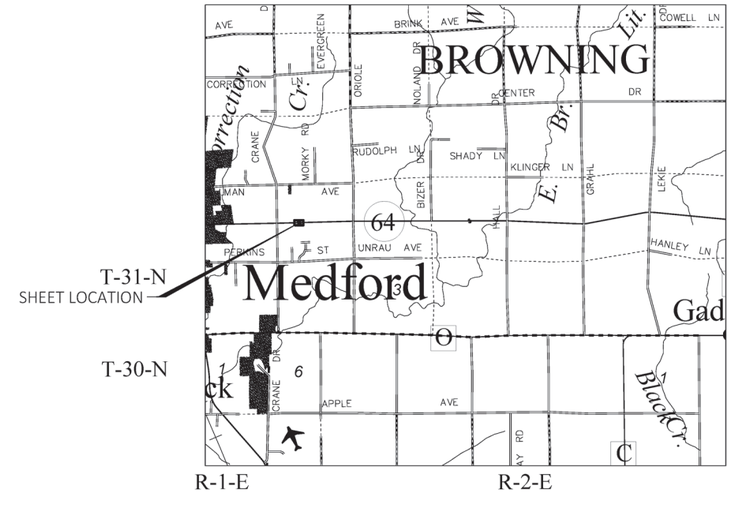
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY NUMBER	NGS NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

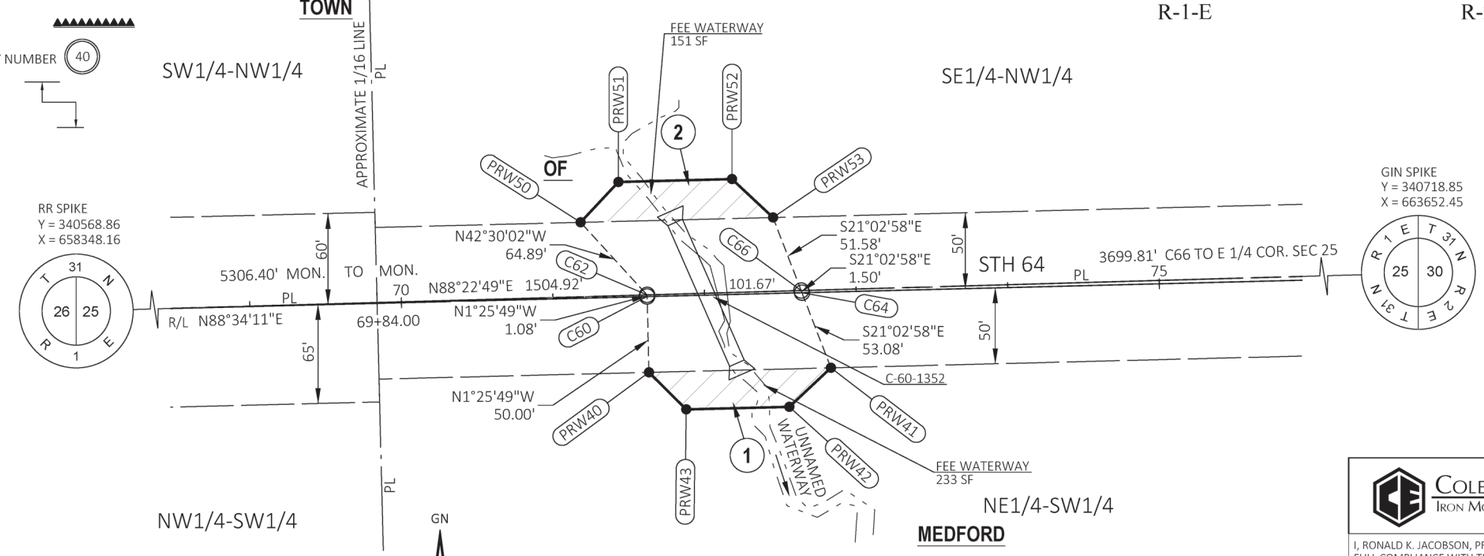
CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

RIGHT-OF-WAY STATION AND OFFSET TABLE		
POINT #	STATION	OFFSET
PRW40	71+62.09	50.00'
PRW41	72+82.09	50.00'
PRW42	72+54.02	75.00'
PRW43	71+85.99	75.00'
PRW50	71+19.46	-50.00'
PRW51	71+45.00	-76.00'
PRW52	72+20.00	-76.00'
PRW53	72+46.45	-50.00'
C60	71+62.09	0.00'
C62	71+62.09	-1.08'
C64	72+64.27	0.00'
C66	72+63.77	-1.42'

RIGHT-OF-WAY COURSE TABLE		
PT.#-PT.#	BEARING	DISTANCE
PRW41-PRW42	S46° 52' 57"W	37.59'
PRW42-PRW43	S88° 34' 11"W	68.03'
PRW43-PRW40	N45° 08' 35"W	34.59'
PRW50-PRW51	N43° 03' 21"E	36.44'
PRW51-PRW52	N88° 34' 11"E	75.00'
PRW52-PRW53	S46° 55' 08"E	37.09'





CONVENTIONAL UTILITY SYMBOLS

W WATER
G GAS
T TELEPHONE
OH OVERHEAD TRANSMISSION LINES
E ELECTRIC
TV CABLE TELEVISION
FO FIBER OPTIC
SAN SANITARY SEWER
SS STORM SEWER

NOTES:

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

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

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 64 ESTABLISHED FROM PREVIOUS PROJECT DJ6396.

DOCUMENT#: **389244**
Recorded **October-10-2023 at 8:54 AM**
JAYMI S KOHN
REGISTER OF DEEDS
TAYLOR COUNTY, WI
Pages: **1** Fee Amount: **$25.00**

Return To: **WisDOT - NW Region - Eau Claire**
***The above recording information verifies this document has been electronically recorded ***

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9000-00-25 - 4.01

SCHEDULE OF LANDS & INTERESTS REQUIRED							
OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.							
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	PLE S.F.	TLE S.F.
1	LARRY & LYNN KLOTH	FEE	0.054	0.130	0.184	---	---
2	DANIEL S. INGERSOLL	FEE	0.060	0.128	0.188	---	---

COLEMAN ENGINEERING COMPANY
IRON MOUNTAIN • IRONWOOD • NEGAUNEE • GREEN BAY
www.coleman-engineering.com

I, RONALD K. JACOBSON, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN RONALD K. JACOBSON S-2059 IRONWOOD, MI LAND SURVEYOR

SIGNATURE: _____ DATE: 10-6-2023
PRINT NAME: RONALD K. JACOBSON
REGISTRATION NUMBER: S-2059
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
SIGNATURE: Aaron Gustafson DATE 10/06/2023
PRINT NAME: AARON GUSTAFSON T[illegible]OR

APPRAISAL PLAT DATE : 10-6-2023

CONTROL POINTS				
NO.	STATION, OFFSET	DESCRIPTION	Y	X
1	188+35.52, 20.44' RT	3/4" REBAR	340,706.62	671,534.13
2	189+93.69, 23.06' LT	3/4" REBAR	340,750.12	671,692.30
3	191+49.60, 23.48' RT	3/4" REBAR	340,703.59	671,848.21
4	193+12.98, 18.37' RT	3/4" REBAR	340,708.69	672,011.59

BENCH MARKS			
NO.	STATION, OFFSET	DESCRIPTION	ELEV.
1	189+90.00, 57.54' RT	SPIKE IN POWER POLE	1,464.13
2	193+11.18, 52.47' RT	SPIKE IN POWER POLE	1,470.46

LEGEND
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIPRAP HEAVY
- SURFACE WATER FLOW

N

JERRELL & JERAINE CARSTENSEN

JAYLENE V HENKE & COLIN A LANNET

CHAD R & TAMARA K PEARSON

JIM H & SUSAN K LAHER

DRAINAGE

R/W

EXISTING R/W

BURIED FIBER OPTIC (TDS TELECOM)

BURIED TELEPHONE (TDS TELECOM)

REMOVING GUARDRAIL

SAWING ASPHALT

188+00 189+00 190+00 191+00 192+00 193+00

℄ STH 64 (ASPHALT)

CP-1 CP-2 CP-3 CP-4

100'

120'

STRUCTURE C-60-0020

EXISTING STRUCTURE C-60-1096 (TO BE REMOVED)

SLOPE INTERCEPT (TYP.)

BM-1 BM-2

OVERHEAD ELECTRIC (MEDFORD ELECTRIC UTILITY)

GUY

BEGIN PROJECT 9000-00-74
STA 189+00
Y = 340,727.06
X = 671,598.61

END PROJECT 9000-00-74
STA 192+25
Y = 340,727.07
X = 671,923.61

5

5

VCL = 320.00

K = 136.02

STA 189+00.00
EL 1472.95

-1.50%

1.66%

STA 188+89.61
EL 1473.12

VPC STA 189+00.00
VPC EL 1472.95

FINISHED C/L PROFILE

EXISTING C/L PROFILE

LP STA 191+04.40
LP EL 1471.41

VPI STA 190+60.00
VPI EL 1470.54

STA 192+25.00
EL 1471.94

0.85%

1.12%

VPT STA 192+20.00
VPT EL 1471.90

STA 192+40.69
EL 1472.12

1480 1475 1470 1465

1474.94 1473.92 1472.95 1472.95 1472.11 1472.29 1471.50 1471.81 1471.17 1471.52 1471.08 1471.41 1471.23 1471.49 1471.66 1471.75 1472.26 1473.06 1474.07

188+00 189+00 190+00 191+00 192+00 193+00 193+50

REMOVE EXISTING STRUCTURE C-60-1096
STA 190+72.05
SINGLE SPAN CONCRETE SLAB BRIDGE
34.0 FT CLEAR ROADWAY WIDTH
12.0 FT OVERALL LENGTH
NO SKEW

STA 190+66.25, STRUCTURE C-60-0020
SINGLE CELL 12' WIDE X 7' HIGH BOX CULVERT
15° RHF SKEW

EARTHWORK SUMMARY	
STA 189+00 - STA 192+25	
EXC. COMMON	565 CY
FILL	855 CY
FILL EXPANSION	30%
BORROW	769 CY

PROJECT NO: 9000-00-74	HWY: STH 64	COUNTY: TAYLOR	PLAN AND PROFILE: STH 64	SHEET 16	E

FILE NAME : G:\00\00093\00093742\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050101-pp
PLOT DATE : 9/11/2024 9:52 AM
PLOT BY : CONNOR GIRTEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

CONTROL POINTS				
NO.	STATION, OFFSET	DESCRIPTION	Y	X
1	71+89.24, 19.77' LT	3/4" REBAR	340,630.76	659,879.16
2	69+89.01, 19.11' RT	3/4" REBAR	340,586.90	659,679.95
3	72+30.38, 18.10' RT	3/4" REBAR	340,593.93	659,921.23

BENCH MARKS			
NO.	STATION, OFFSET	DESCRIPTION	ELEV.
50	71+97.17, 18.80' RT	SPIKE IN WINGWALL PILING	1,449.52
51	69+98.13, 48.65' RT	SPIKE IN POWER POLE	1,452.50

LEGEND
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIPRAP HEAVY
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW

N

WATERWAY
R/W
DITCH
EXISTING R/W
REMOVING SIGNS TYPE II
REMOVING SMALL SIGN SUPPORTS
REMOVING GUARDRAIL
6:1
CP-1
SAWING ASPHALT
70+00
71+00
72+00
73+00
74+00
℄ STH 64 (ASPHALT)
BP: 69+50.00
EP: 75+00.00
125'
100'
CP-2
BM-50
CP-3
EXISTING STRUCTURE C-60-1352 (TO BE REMOVED)
STRUCTURE C-60-0021
BM-51
SLOPE INTERCEPT (TYP.)
END CONSTRUCTION STA 73+25
BURIED FIBER OPTIC (TDS TELECOM)
BURIED GAS (WE ENERGIES)
OVERHEAD ELECTRIC (MEDFORD ELECTRIC UTILITY)
DANIEL S INGERSOLL
LARRY E & LYNN KLOTH

BEGIN PROJECT 9000-00-75
STA 71+00
Y = 340,608.77
X = 659,790.43

END PROJECT 9000-00-75
STA 73+00
Y = 340,613.76
X = 659,990.37

STA 71+00.00
EL 1454.25
VCL = 160.00
K = 199.40
STA 73+00.00
EL 1452.64
-1.21%
-0.41%
FINISHED C/L PROFILE
EXISTING C/L PROFILE
VPC STA 71+19.55
VPC EL 1454.01
VPI STA 71+99.55
VPI EL 1453.05
VPT STA 72+79.55
VPT EL 1452.72
LEFT DITCH

REMOVE EXISTING STRUCTURE C-60-1352
STA 72+10.43
SINGLE SPAN STEEL DECK GIRDER BRIDGE
32.0 FT CLEAR ROADWAY WIDTH
24.1 FT OVERALL LENGTH
NO SKEW

STA 72+01.67, STRUCTURE C-60-0021
TWIN CELL 8' WIDE X 6' HIGH BOX CULVERT
20° RHF SKEW

EARTHWORK SUMMARY
STA 71+00 - STA 73+00

EXC. COMMON	423 CY
FILL	900 CY
FILL EXPANSION	30%
BORROW	868 CY

1455 1450 1445 1444

1456.15 1455.53 1454.89 1454.25 1454.25 1453.63 1453.67 1446.90 1453.20 1452.87 1452.86 1452.64 1452.64 1452.50 1452.43 1452.38 1452.35

69+50 70+00 71+00 72+00 73+00 74+00 75+00

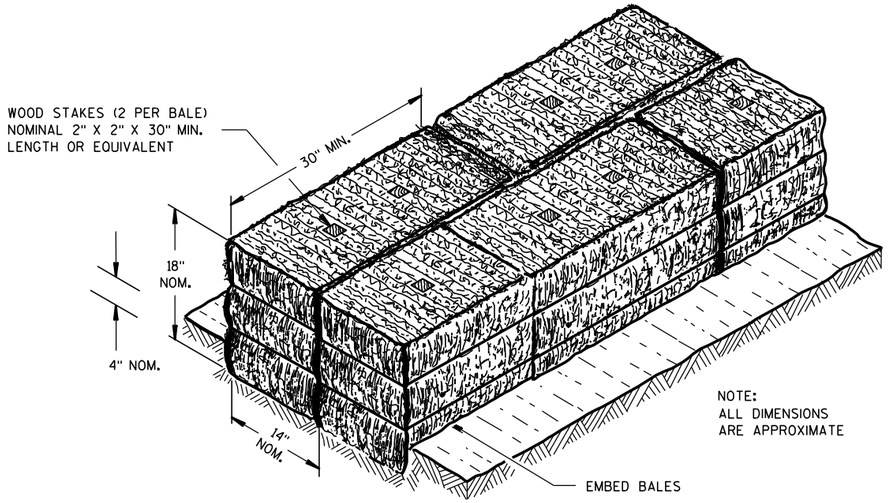
PROJECT NO: 9000-00-75	HWY: STH 64	COUNTY: TAYLOR	PLAN AND PROFILE: STH 64	SHEET 17	E

FILE NAME : G:\00\00093\00093743\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050102-pp
PLOT DATE : 9/11/2024 9:52 AM
PLOT BY : CONNOR GIRTEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

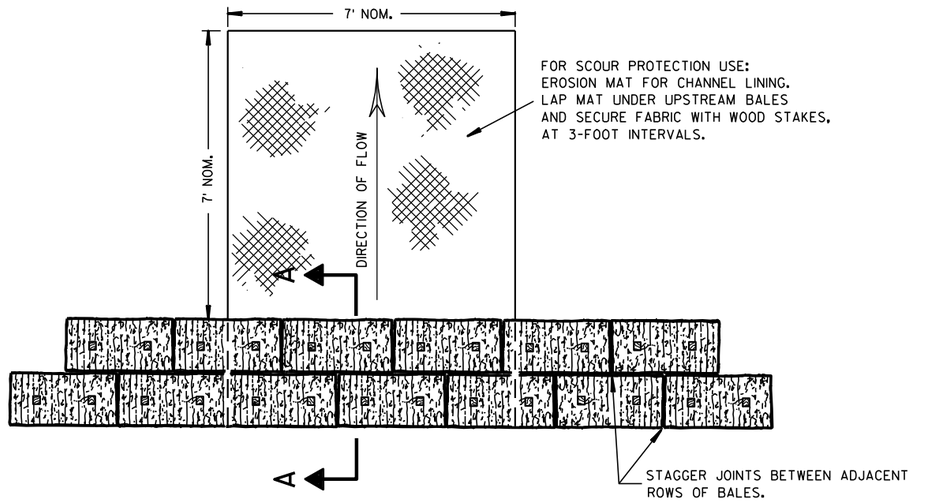
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS

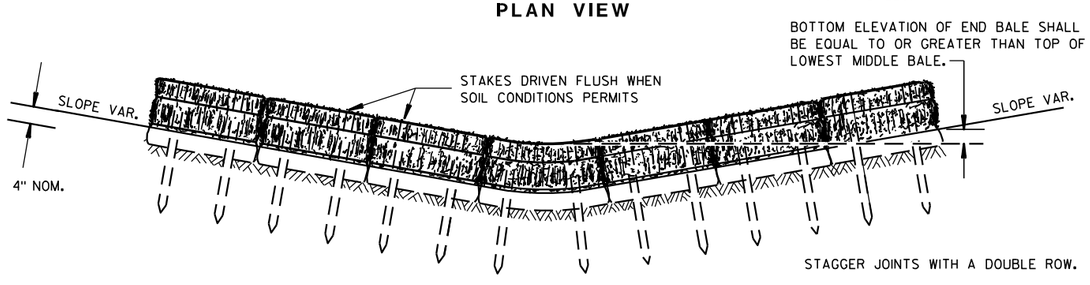
6



SECTION A-A



PLAN VIEW



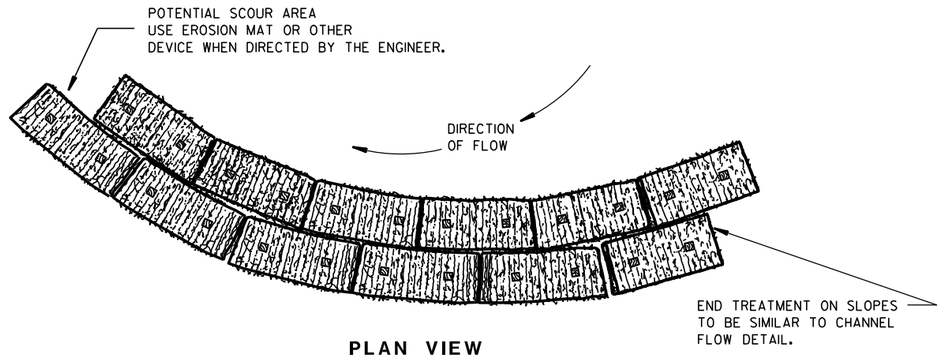
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

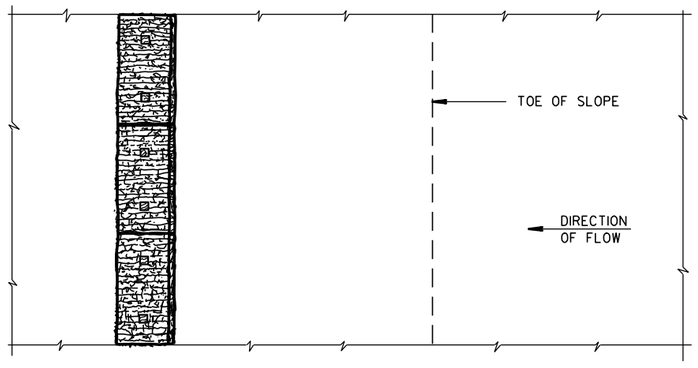
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

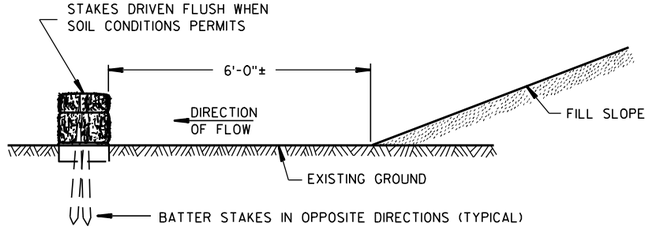


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

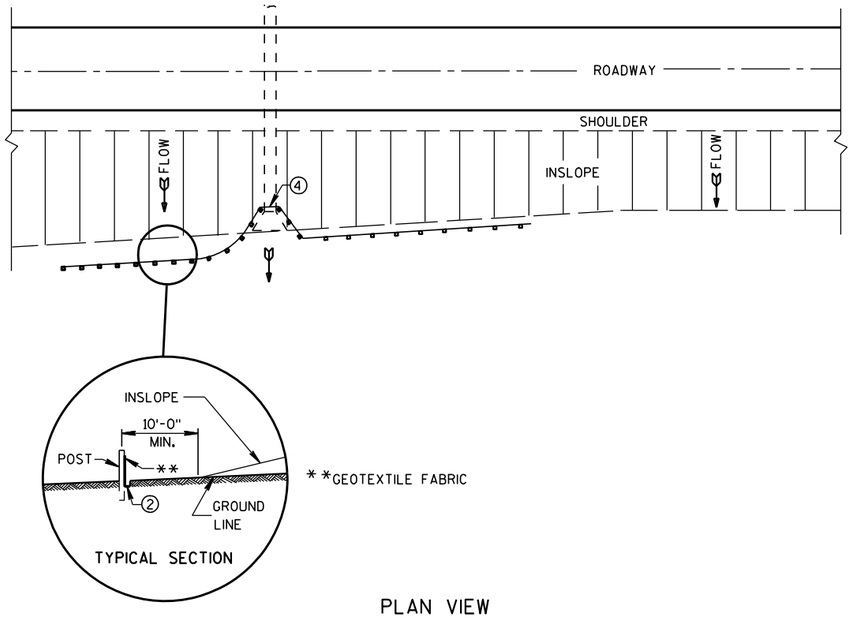
TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

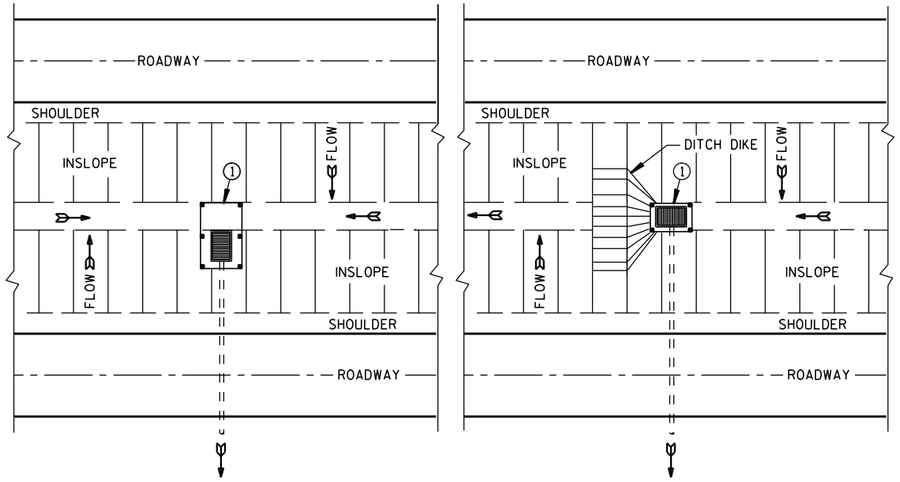
6/04/02 DATE — /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



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.

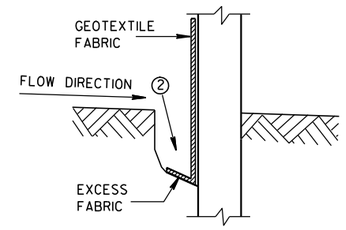
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

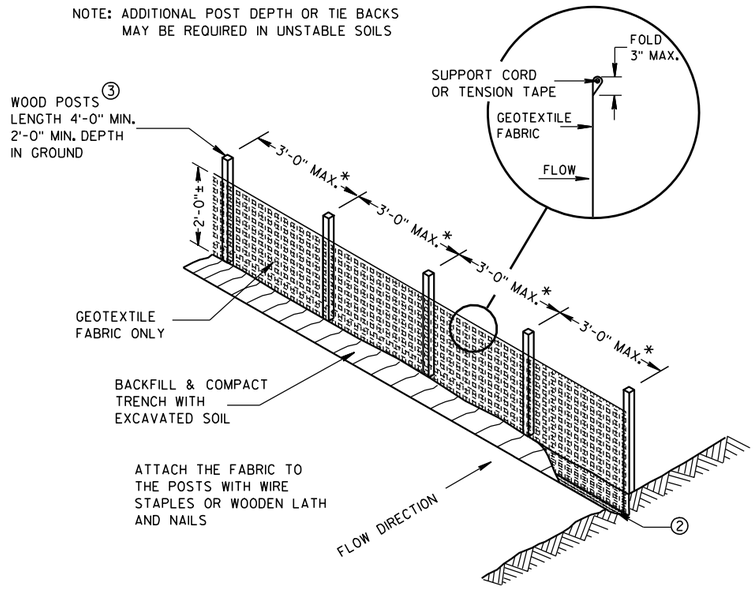
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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.

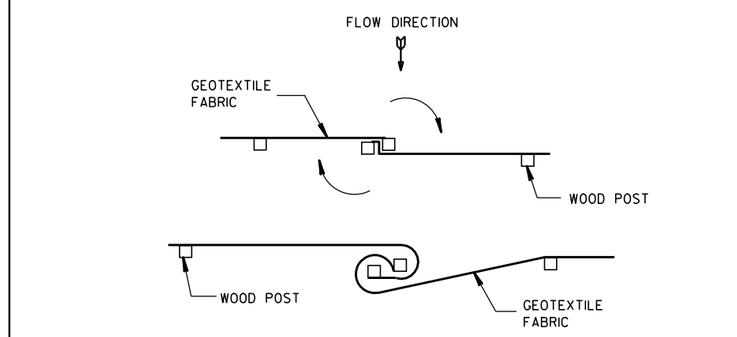


TRENCH DETAIL

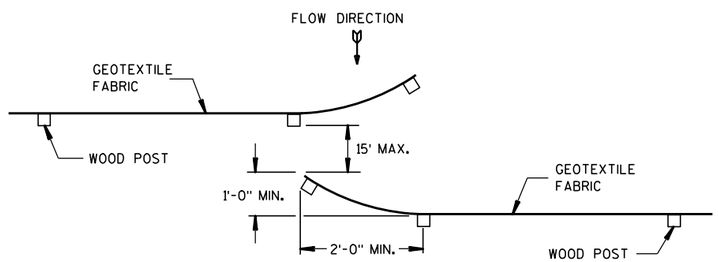


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

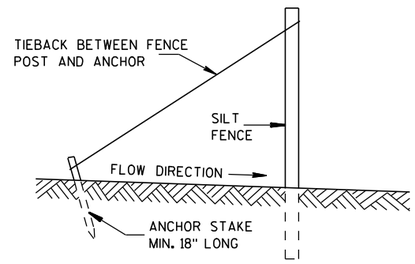


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

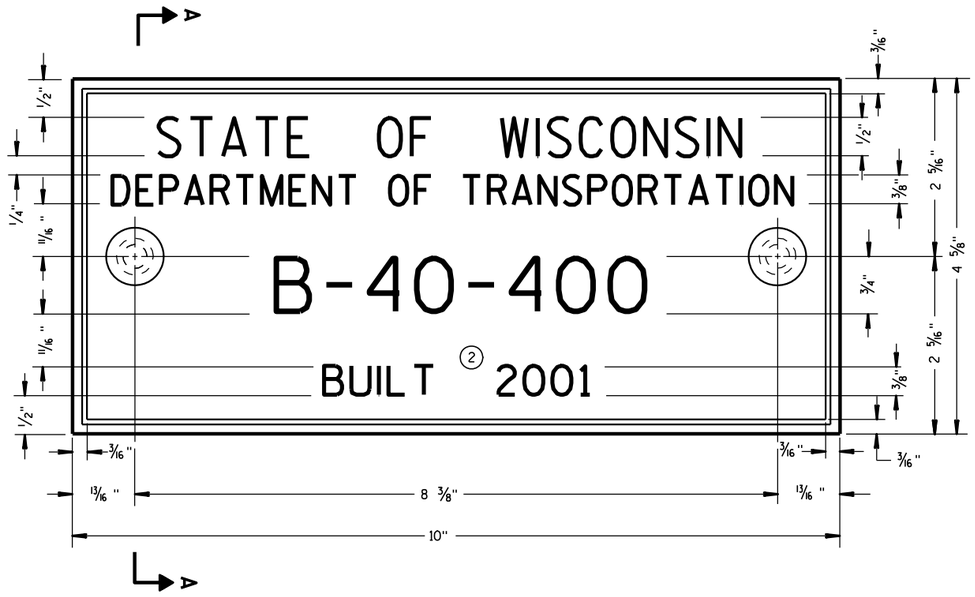
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

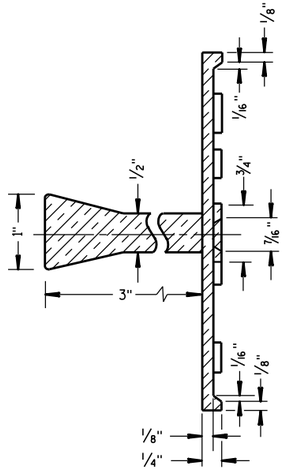
GENERAL NOTES

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.

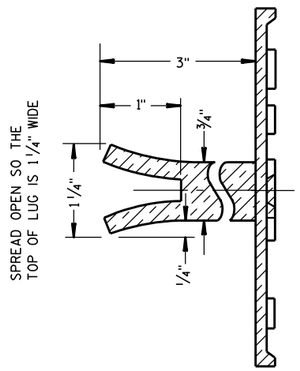
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

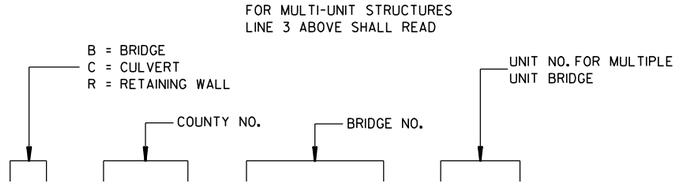
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



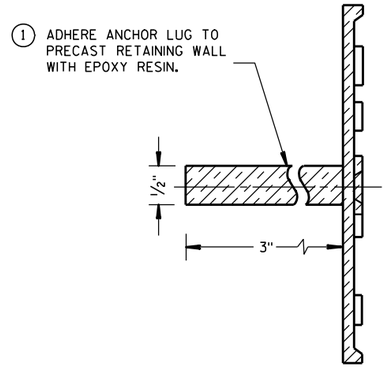
SECTION A-A



ALTERNATE LUG



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP ENGINEER

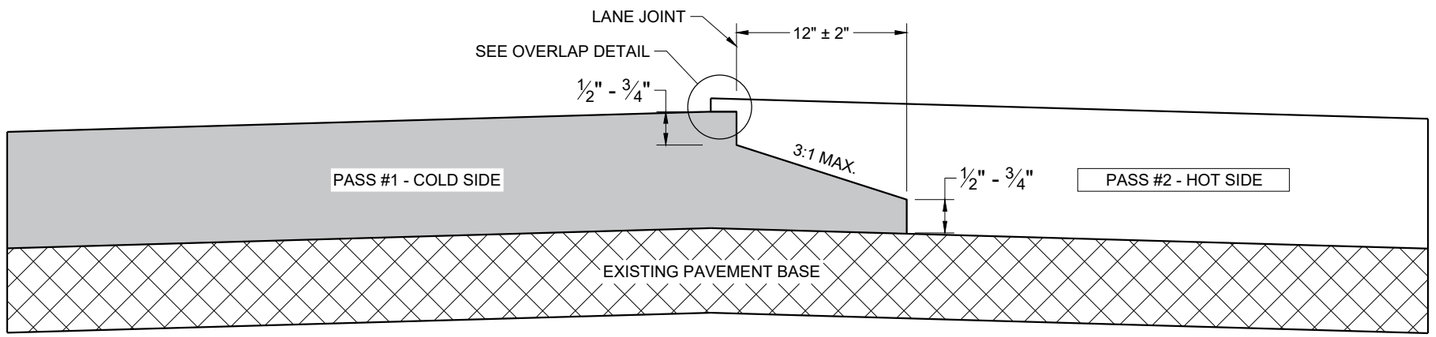
FHWA

6

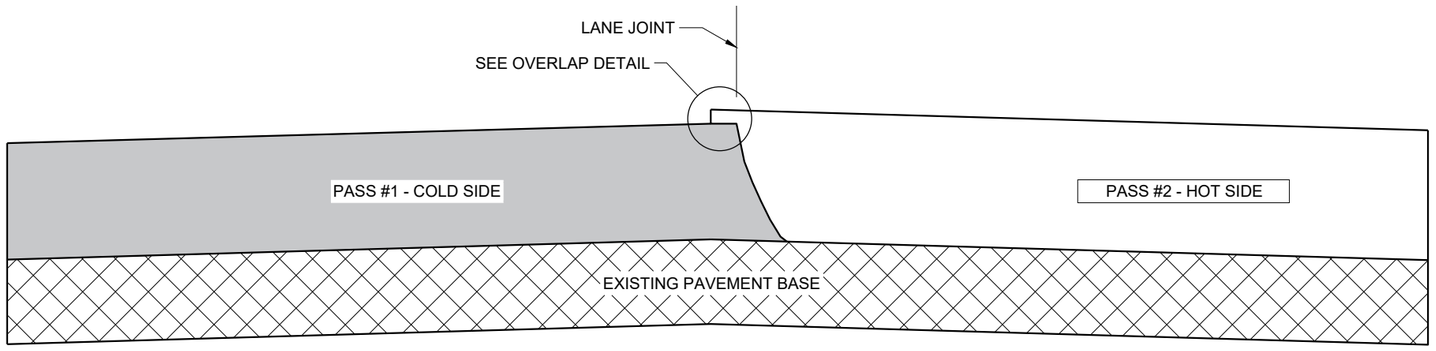
S.D.D. 12 A 3-10

6

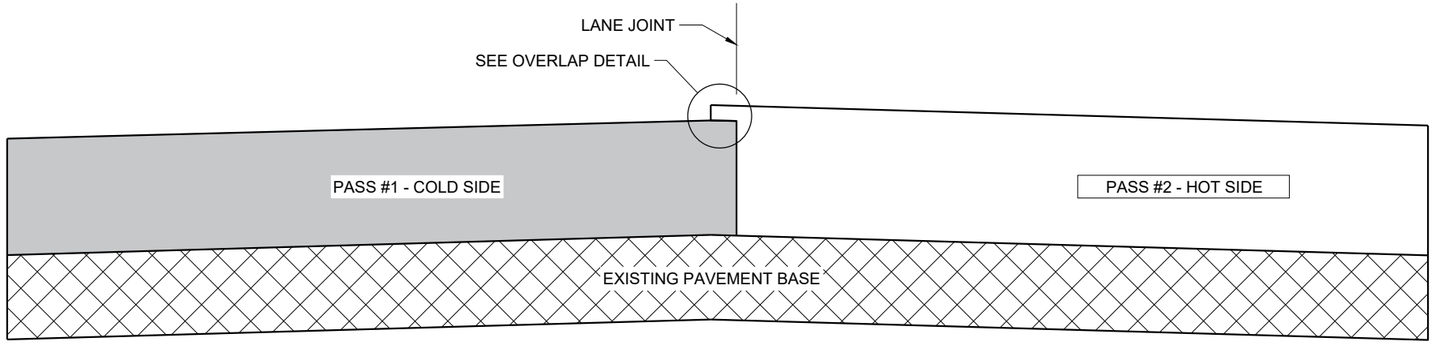
S.D.D. 12 A 3-10



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

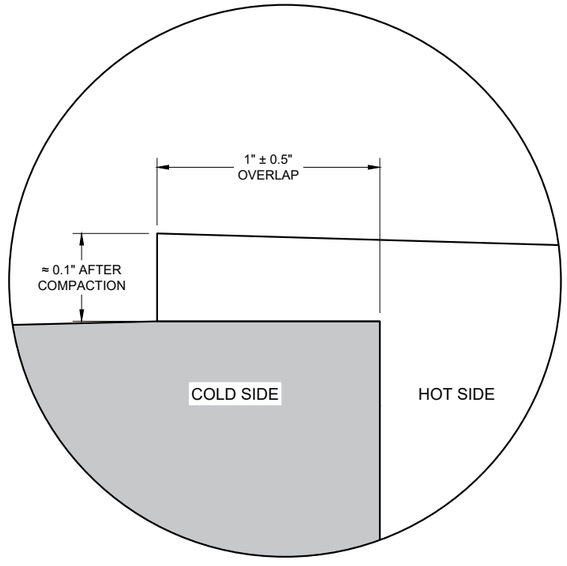
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

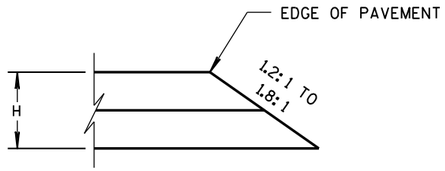
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

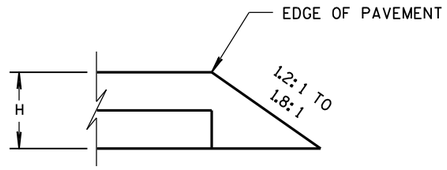
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



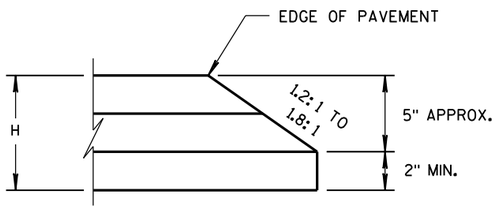
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



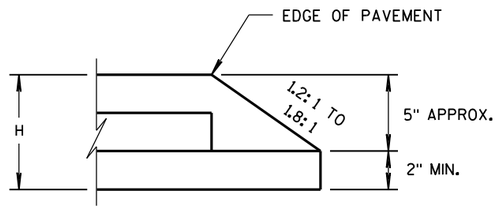
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

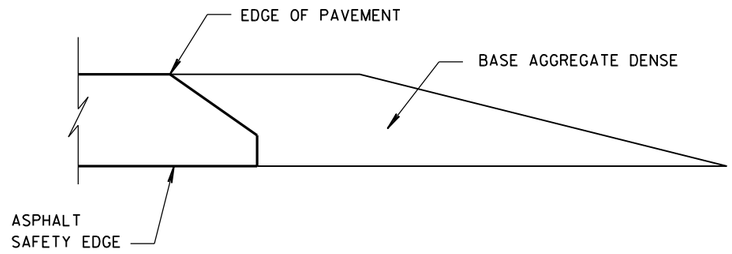
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

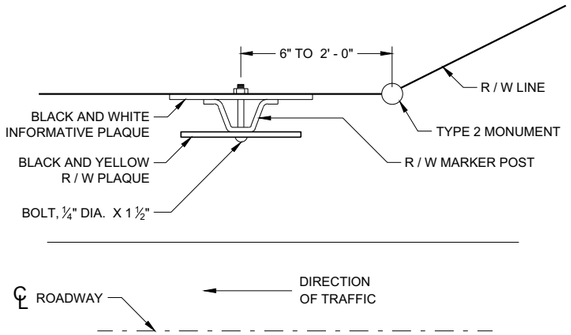
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

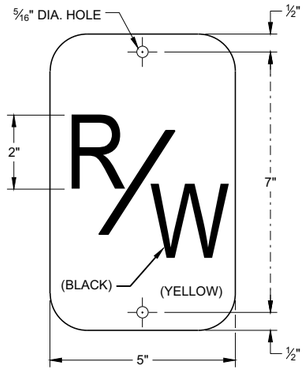
11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

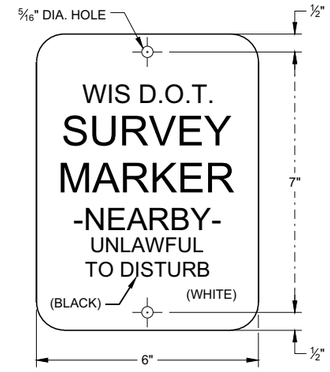


PLAN VIEW
STEEL MARKER POST



R / W PLAQUE

THE RIGHT-OF-WAY PLAQUE AND INFORMATIVE PLAQUE WILL BE FURNISHED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.



INFORMATIVE PLAQUE

GENERAL NOTES

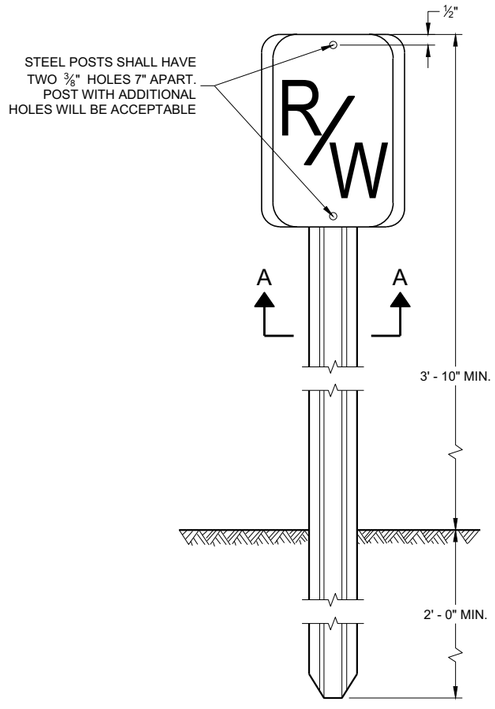
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A STEEL MARKER POST FOR RIGHT -OF-WAY SHALL BE PLACED IN THE RIGHT-OF-WAY WITH THE BACK OF THE POST ON THE LONGER RIGHT-OF-WAY TANGENT, 6 INCHES TO 24 INCHES FROM EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

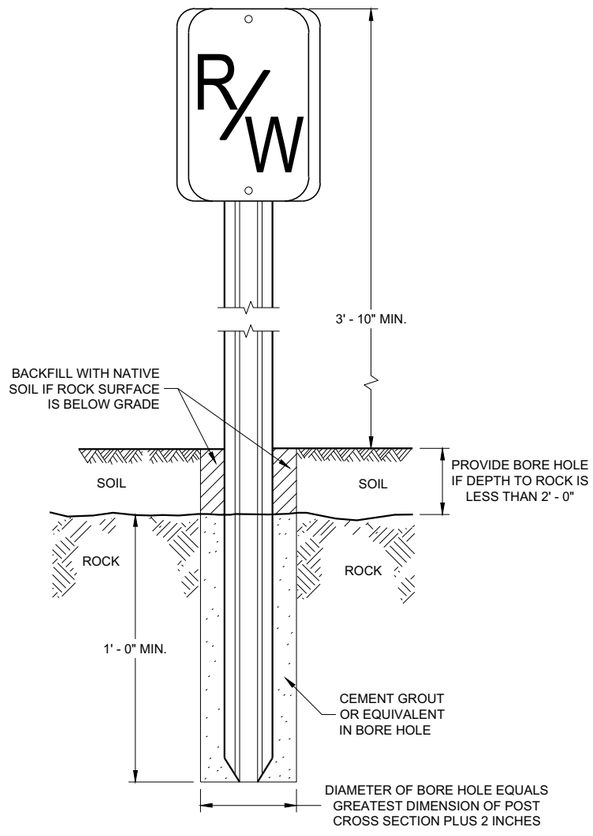
THE "R/W" PLAQUE SHALL FACE THE ROADWAY AND THE INFROMATIVE PLAQUE SHALL FACE AWAY FROM THE ROADWAY. "R/W" AND INFORMATIVE PLAQUES WILL BE FURNISHED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

STEEL MARKER POSTS SHALL MEET THE MINIMUM MATERIAL REQUIREMENTS FOR STEEL DELINEATOR POSTS; EXCEPT POSTS PAINTED WITH FEDERAL YELLOW ENAMEL NEED NOT BE ZINC COATED.

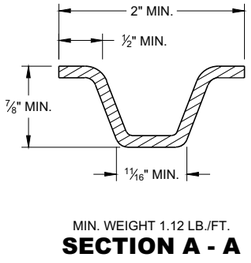
(1) IN AREAS OF SOLID ROCK, DRILL A BORE HOLE 2" GREATER THAN THE WIDEST DIMENSION OF THE POST CROSS SECTION INTO THE ROCK A MINIMUM DEPTH OF 12 INCHES. CUT OR SPLICE THE POST SO THAT A MINIMUM LENGTH OF 3' - 10" PROTRUDES ABOVE THE GROUND. BLOW OUT THE BORE HOLE IN THE ROCK USING COMPRESSED AIR. FILL THE BORE HOLE WITH CEMENT GROUT OR EQUIVALENT, DEPENDING ON THE STABILITY OF THE ROCK.



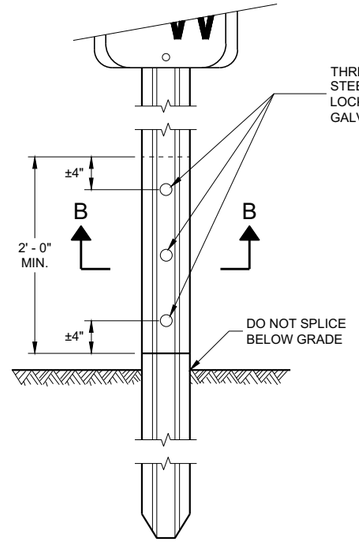
FRONT VIEW
STEEL MARKER POST



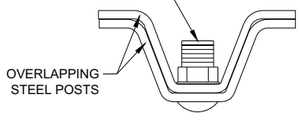
FRONT VIEW
ROCK INSTALLATION (1)



MIN. WEIGHT 1.12 LB./FT.
SECTION A - A



FRONT VIEW
SPLICE DETAIL



SECTION B - B

MARKER POST FOR RIGHT - OF - WAY

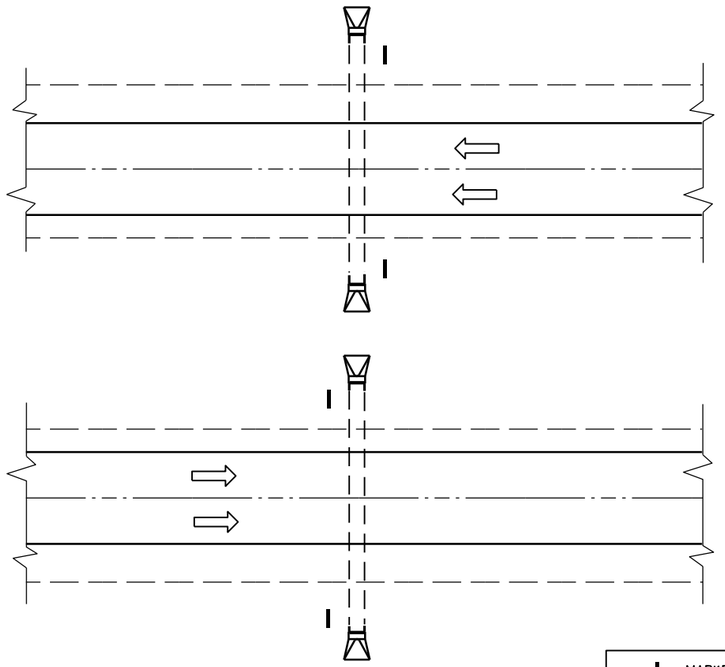
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/18/2016
DATE
/S/ Ray Kumapayi
CHIEF SURVEYING AND MA
ENGINEER

FHWA

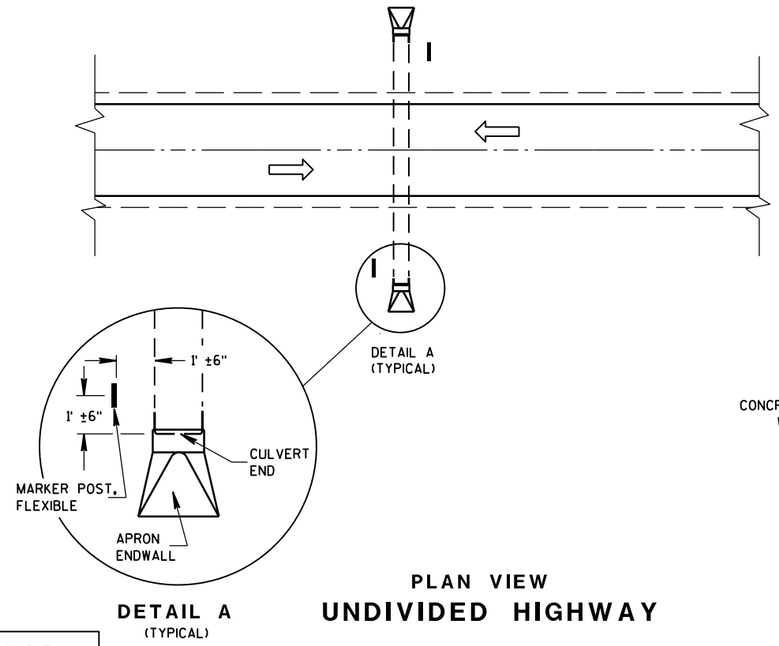
6

SDD15A01 - 13a



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

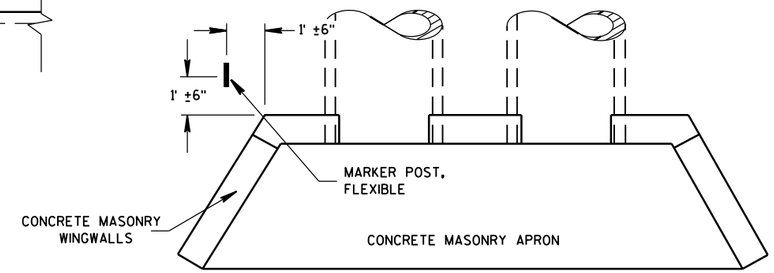
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

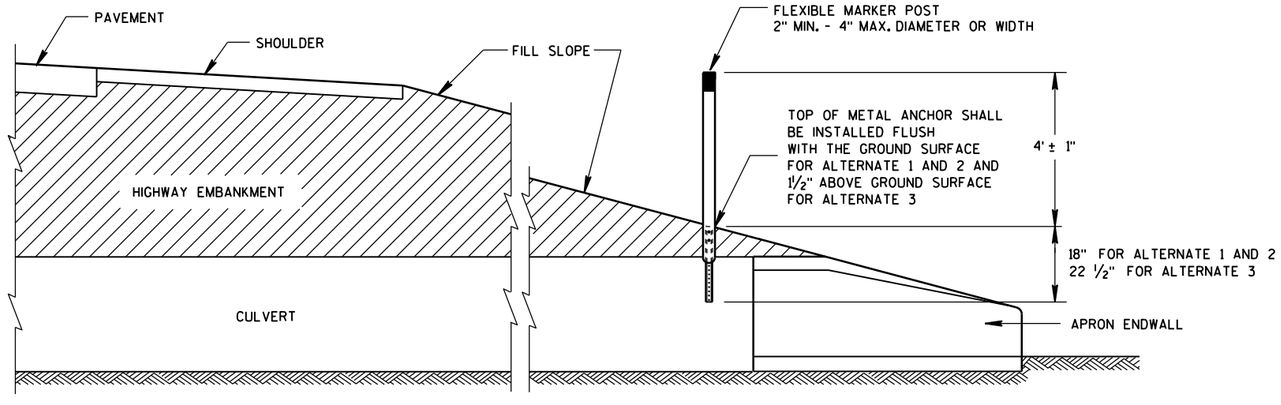
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

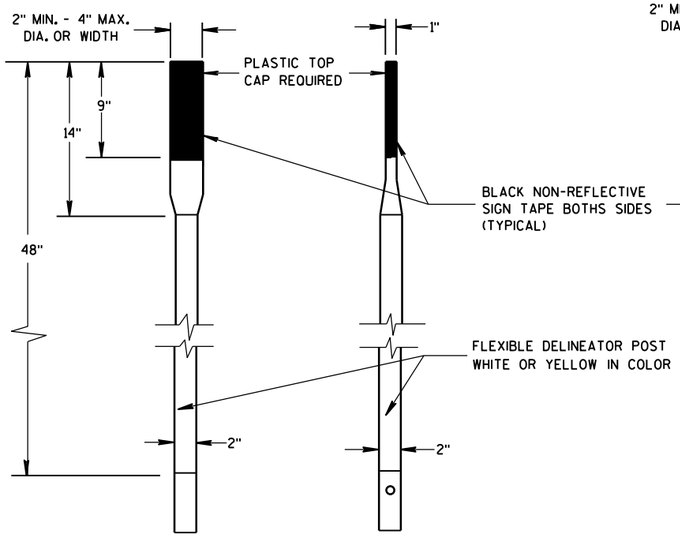
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

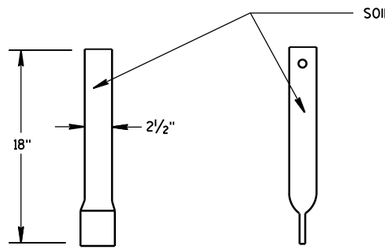
6

S.D.D. 15 A 3-2a

6

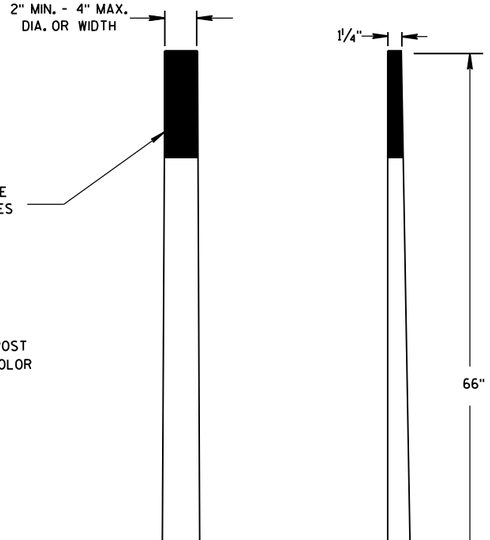
S.D.D. 15 A 3-2a





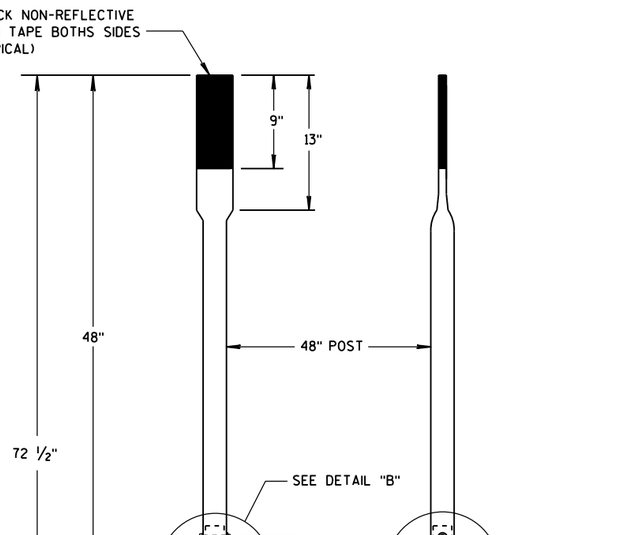
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

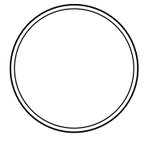
ALTERNATE 2



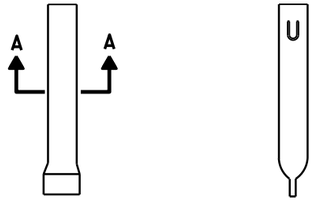
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

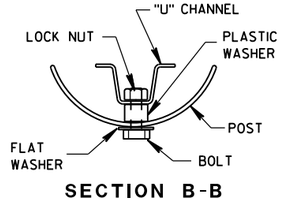


SECTION A-A

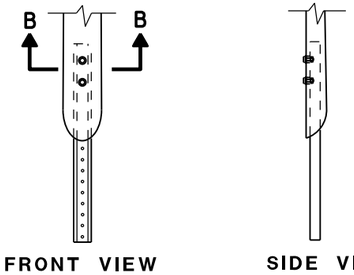


FRONT VIEW SIDE VIEW

ALTERNATE 1

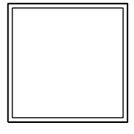


SECTION B-B

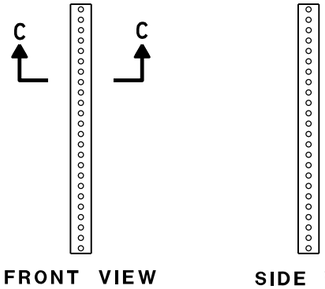


FRONT VIEW SIDE VIEW

ALTERNATE 2



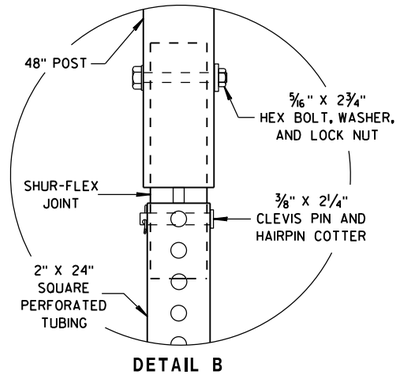
SECTION C-C



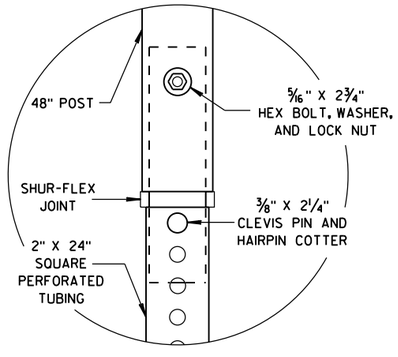
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



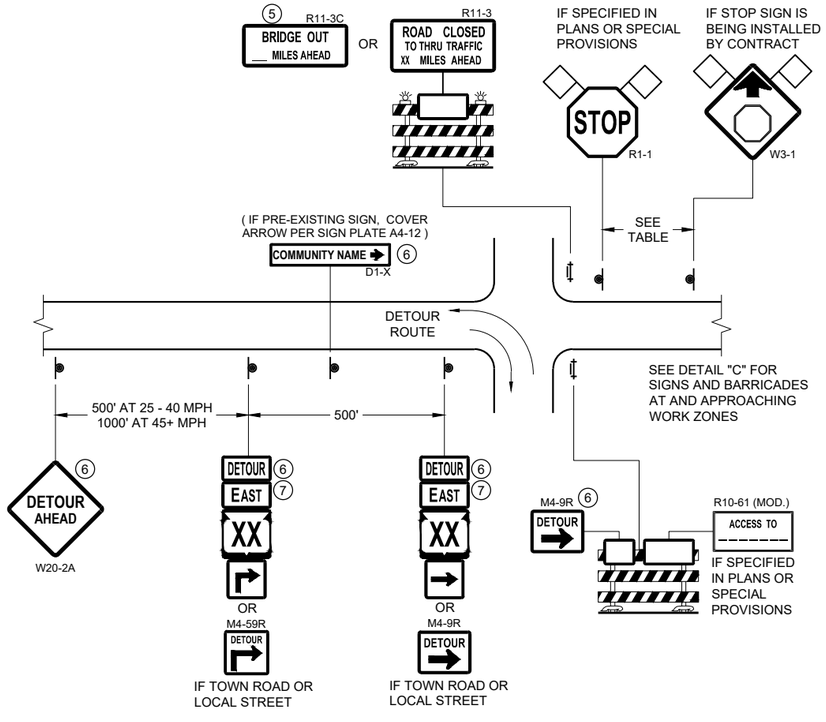
DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

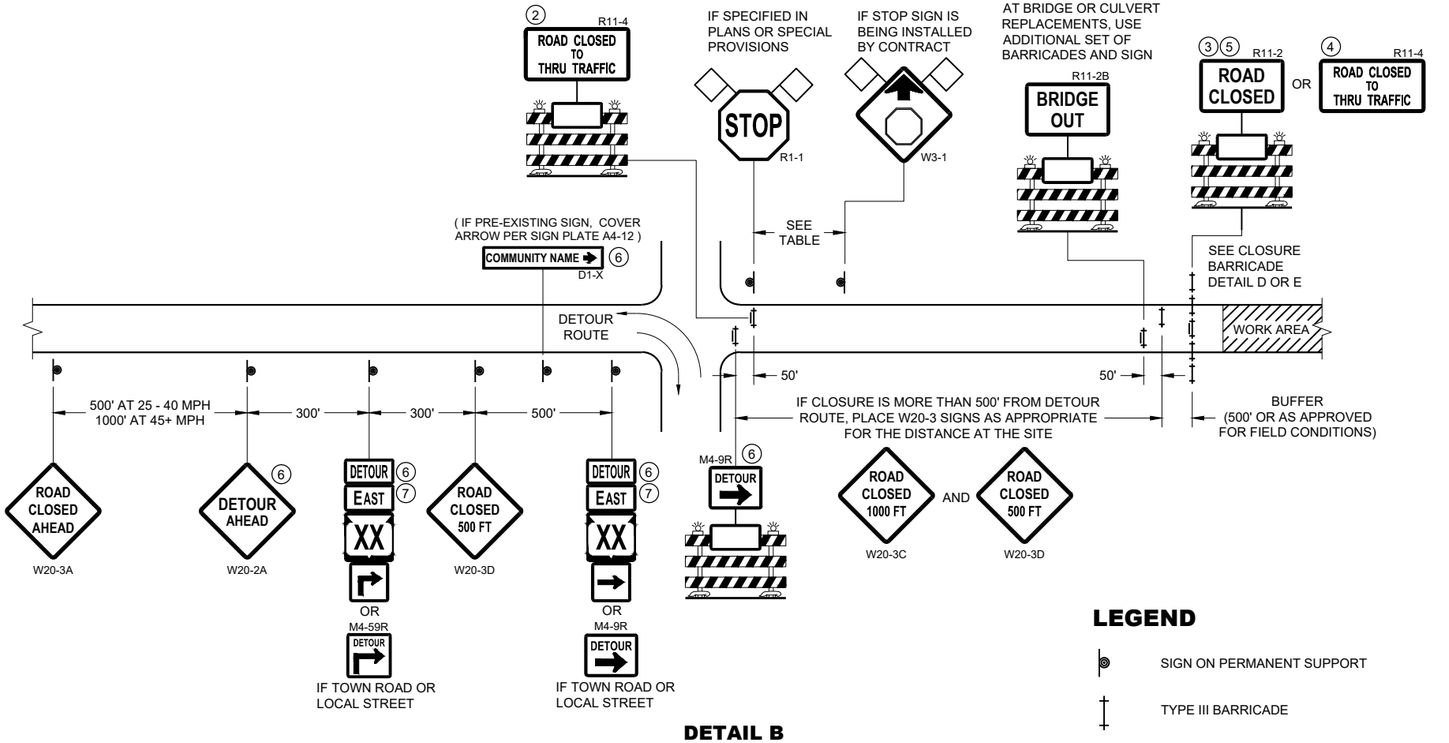
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6
S.D.D. 15 A 3-2b



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



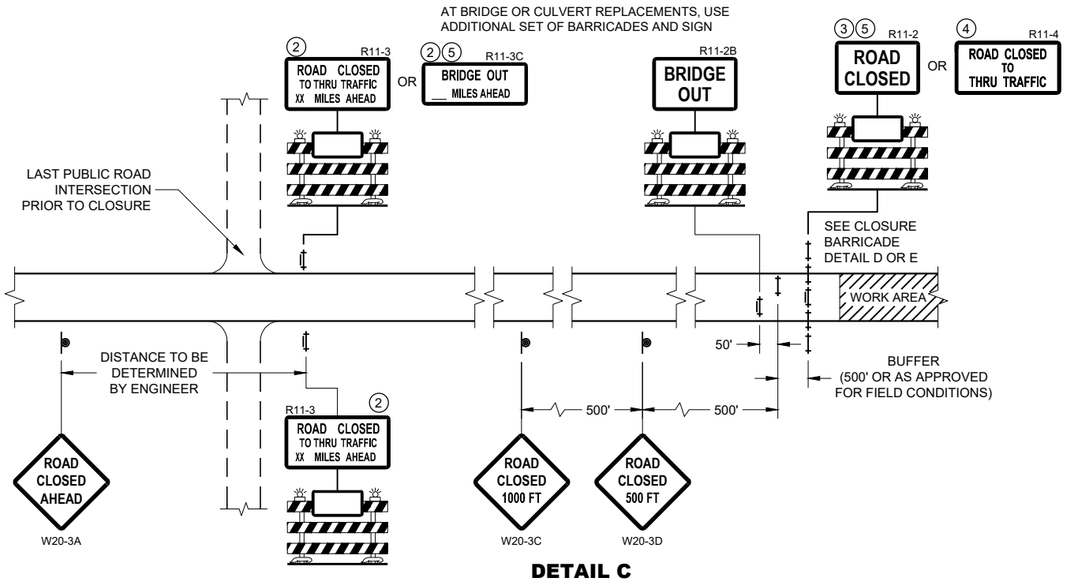
DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

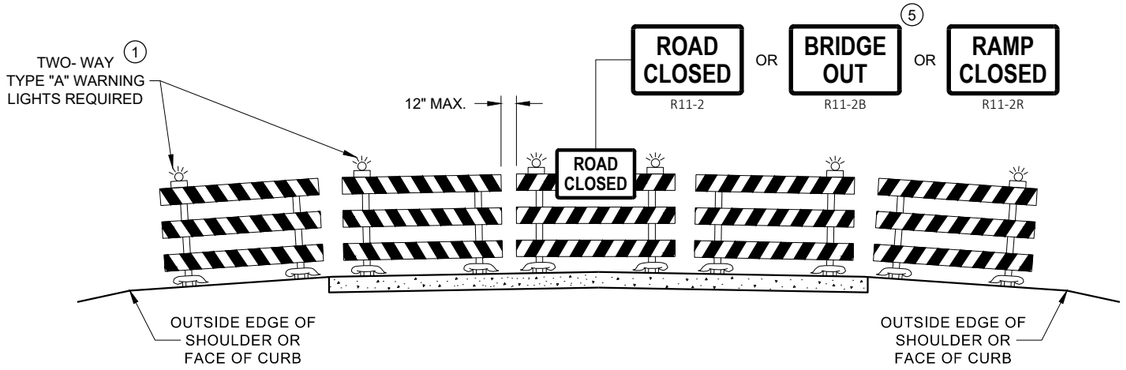
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

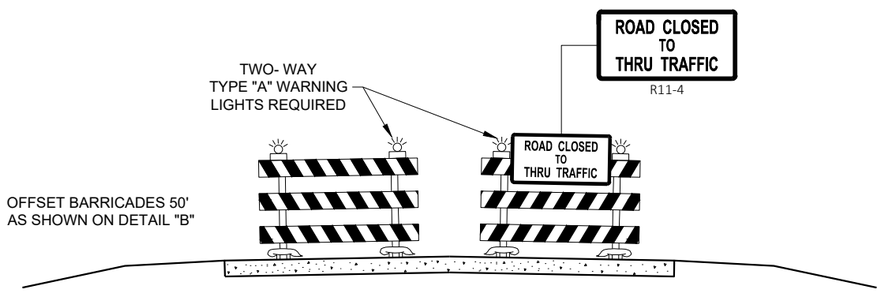
6

SDD 15C02 - 09a

SDD 15C02 - 09a



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.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT 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.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 09b

6

SDD 15C02 - 09b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4
- XX — M1 - 6
- COUNTY / X — M1 - 5A
- M05 - 1
- M06 - 1
- M06 - 1

GENERAL NOTES

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

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

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

SIGN SIZES SHALL BE AS FOLLOWS:

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)
M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M4-9 AND M4-59 SHALL BE 30" X 24"
M4-8a SHALL BE 24" X 18"
G20-51 SHALL BE 60" X 24"
W20-2A SHALL BE 48" X 48"
D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-8a END DETOUR WEST XX *

DETOUR EAST XX / WEST XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX OR M4-9L DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * OR M4-59L DETOUR ** IF TOWN ROAD OR LOCAL STREET

MATCH POINT

* M4-59L DETOUR ** OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

D1-X COMMUNITY NAME * (IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

500'

M4-9L DETOUR ** OR DETOUR EAST XX IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX

DETOUR WEST XX OR M4-9R DETOUR ** IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * OR M4-59R * DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX

500'

DETOUR EAST XX

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX *

PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *

EAST XX M3-X 24" X 12" M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C02 - 09c

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

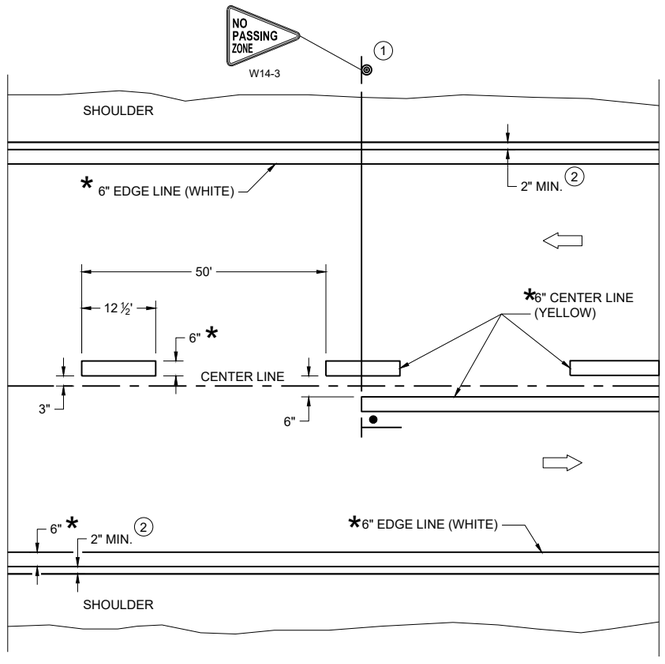
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

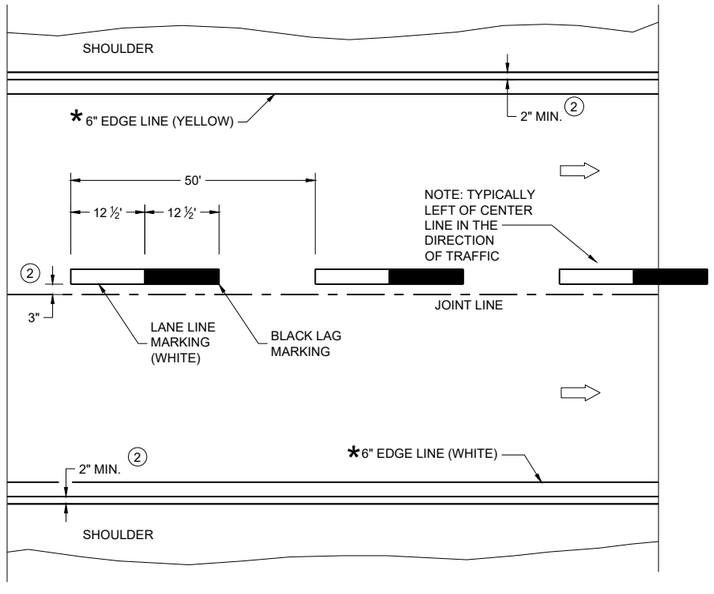
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

SDD 15C08-23a

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

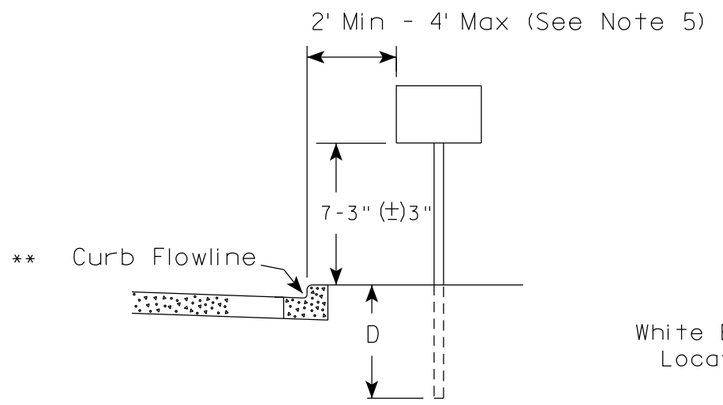
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

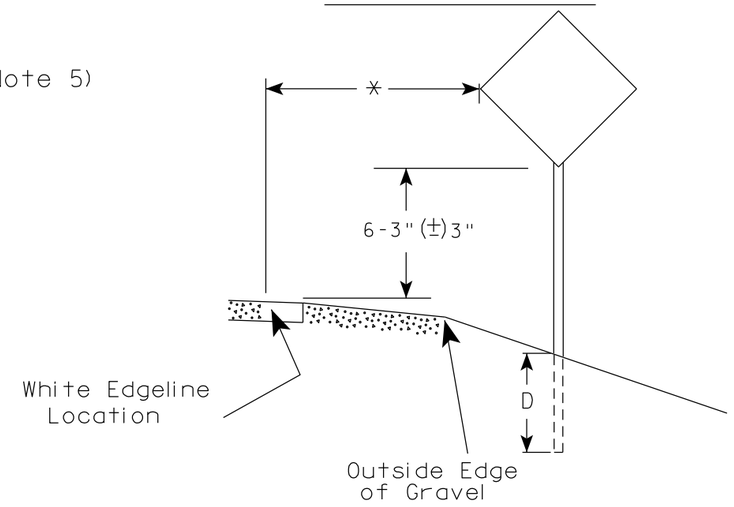
6

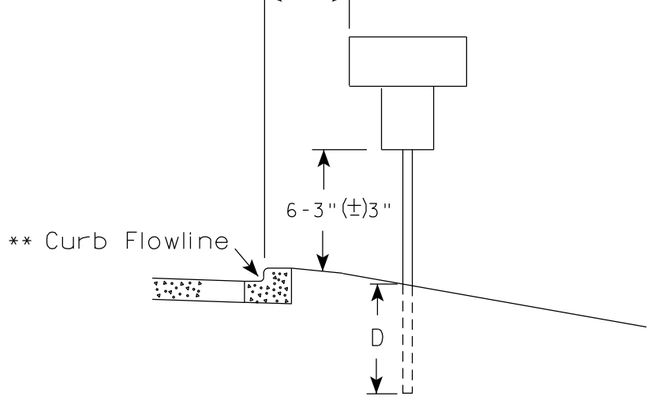
SDD 15C08-23a

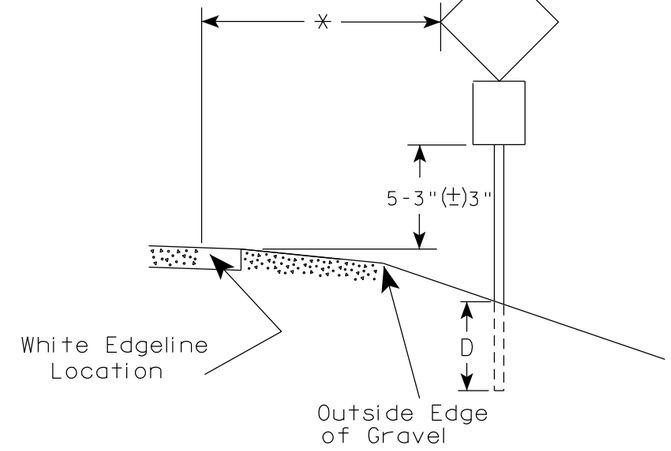
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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

POST EMBEDMENT DEPTH

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

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 or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 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" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

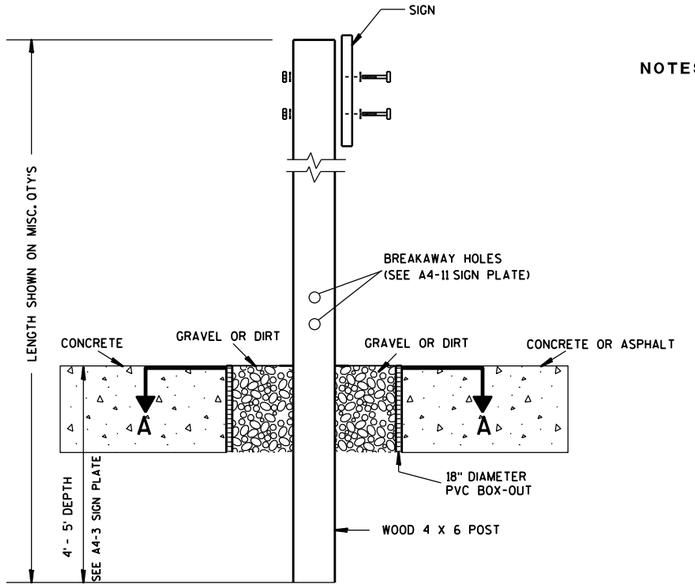
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

7

7

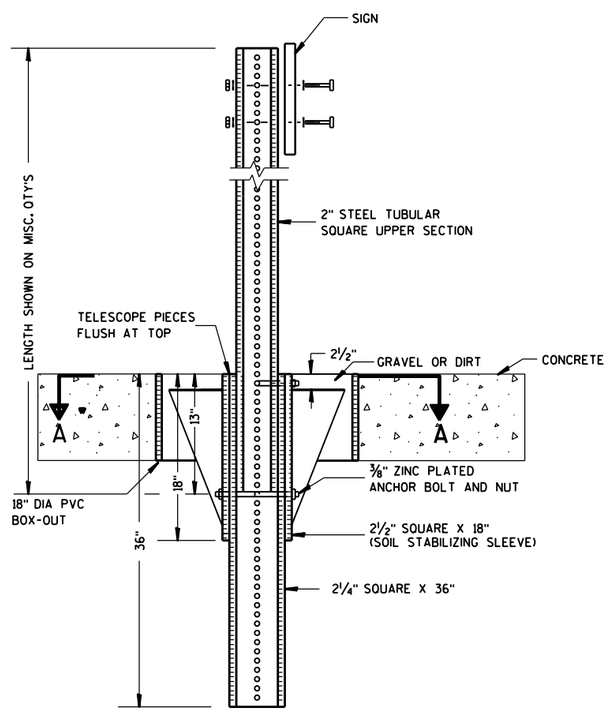
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 31	E



ELEVATION VIEW

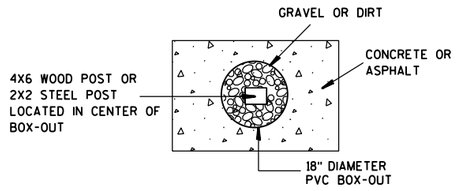
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

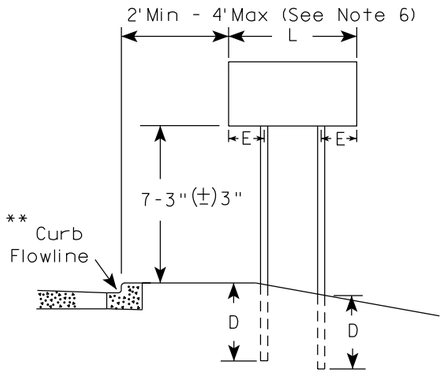
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

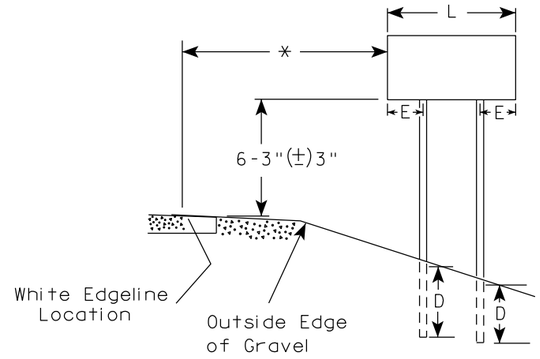
DATE 1/27/14 PLATE NO. A4-3B.1

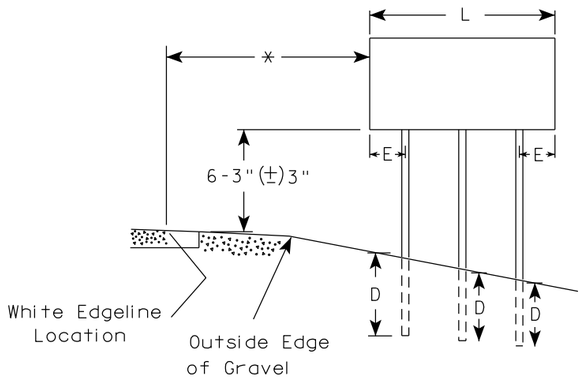
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

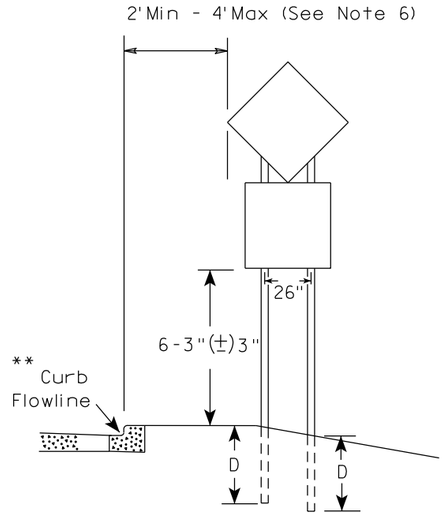
URBAN AREA



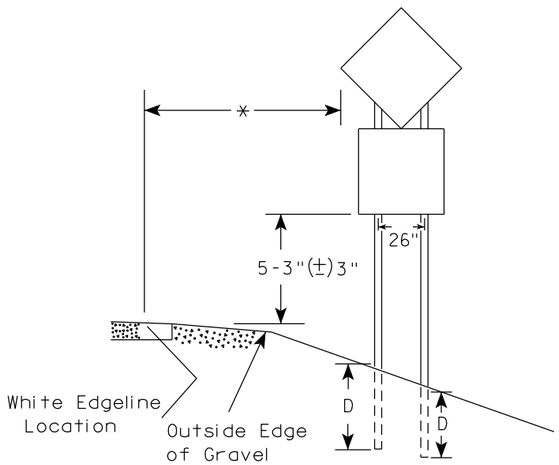
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), 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" (±) 3".

* 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.

** 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.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

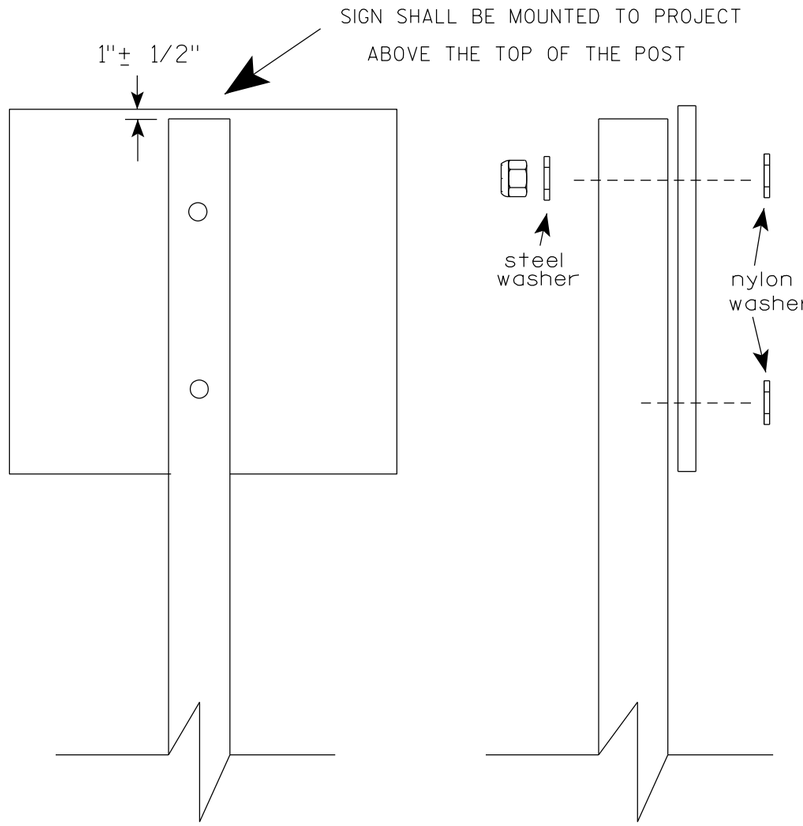
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

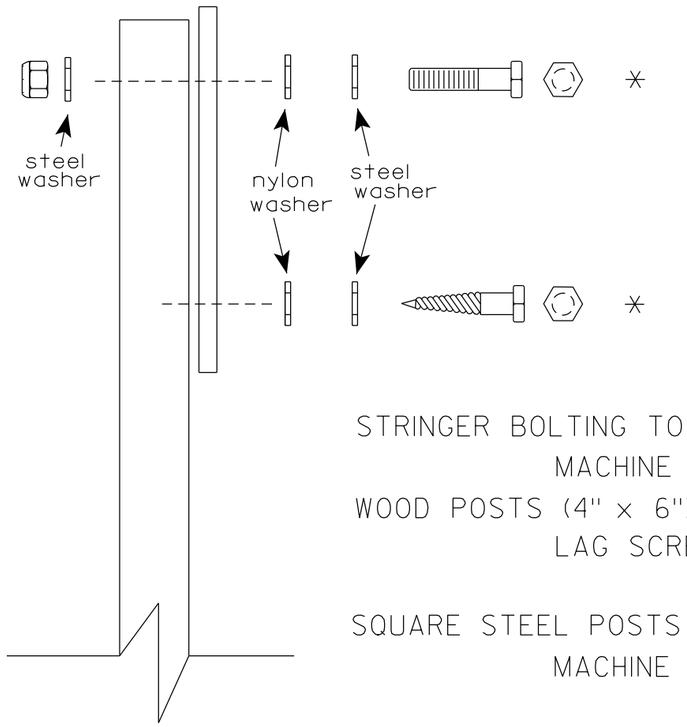
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 33	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* 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

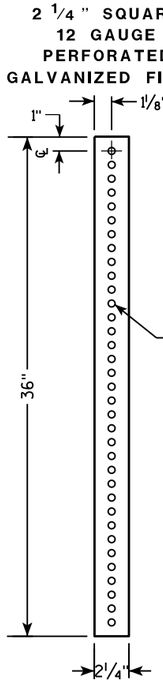
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

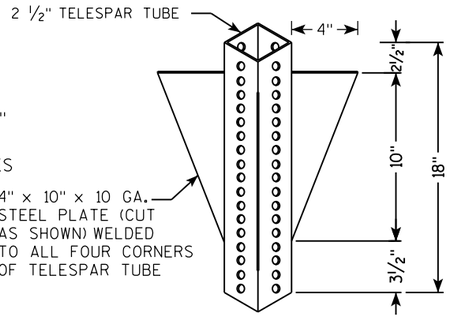
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

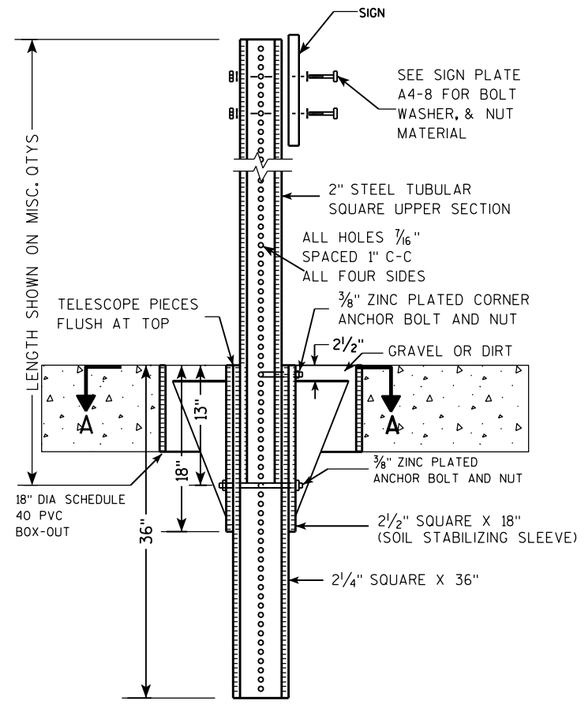
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



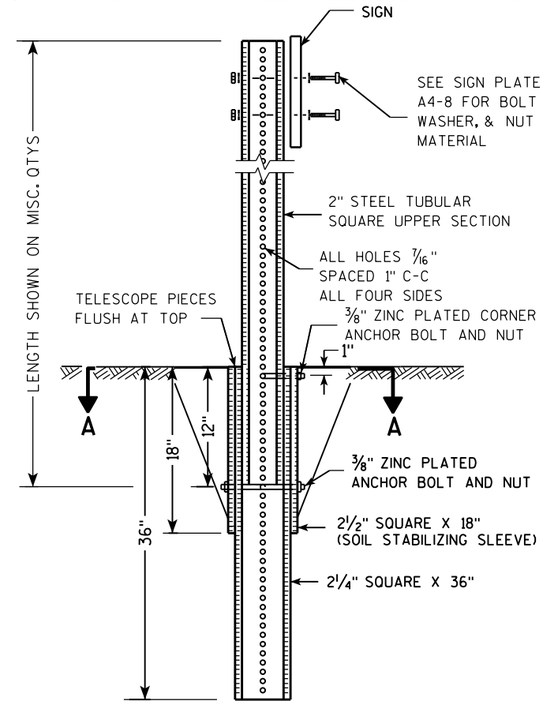
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

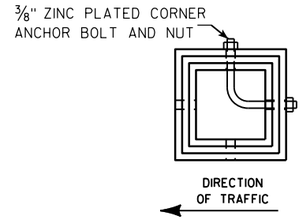


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required 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 sq. ft shall be mounted on multiple posts (see above table).

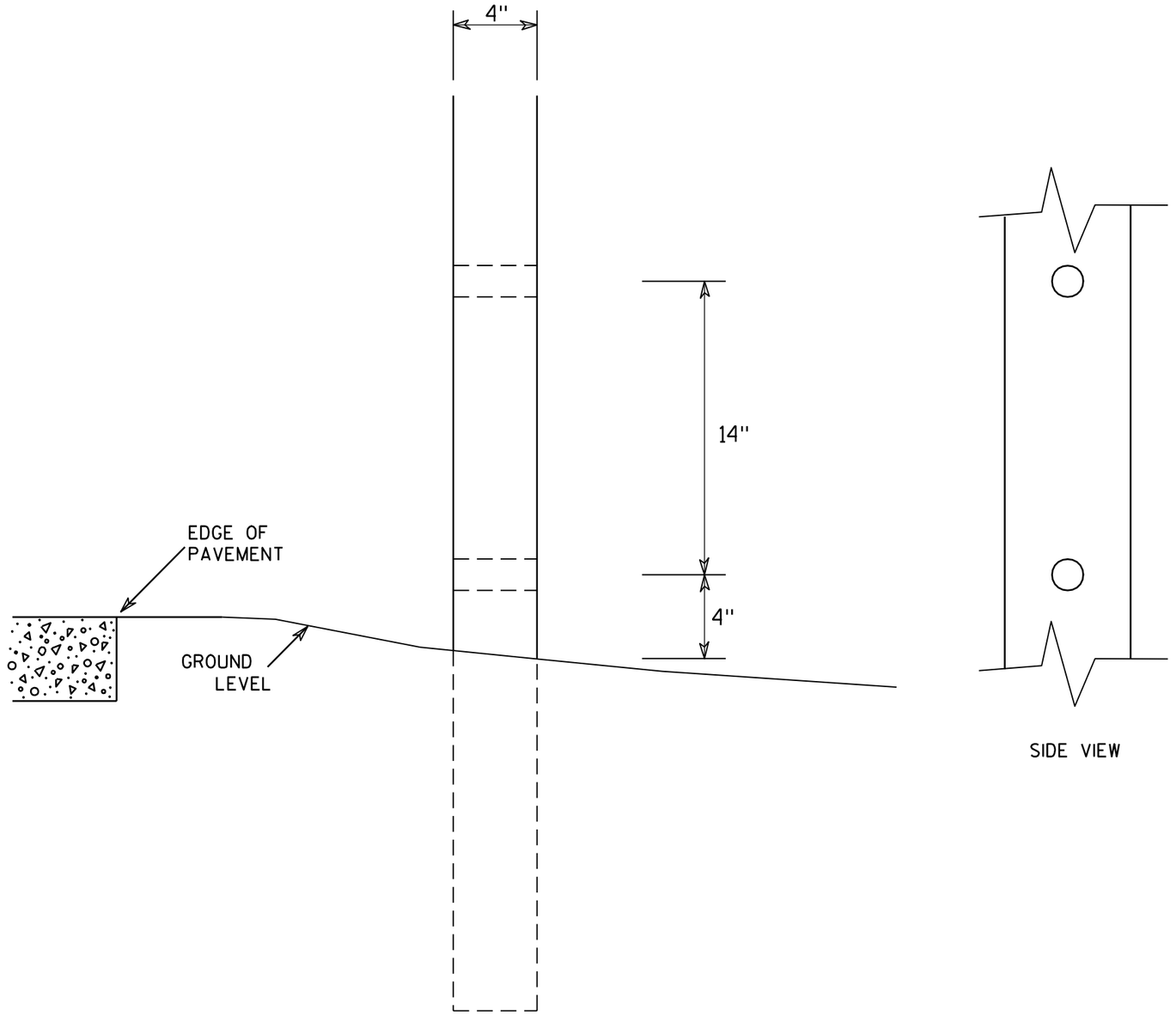
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 35 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

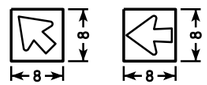
WISCONSIN DEPT OF TRANSPORTATION

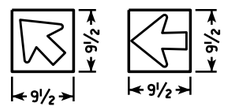
APPROVED Chester J Spang for State Traffic Engineer

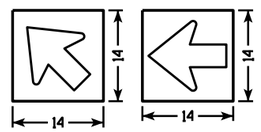
DATE 3/27/97 PLATE NO. A4-11.2

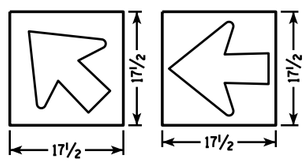
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 36	E

SIGN LAYOUT WITH VARIOUS SIZED MESSAGES







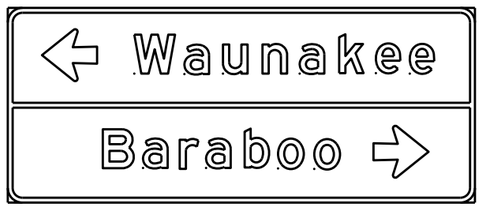


GENERAL NOTES

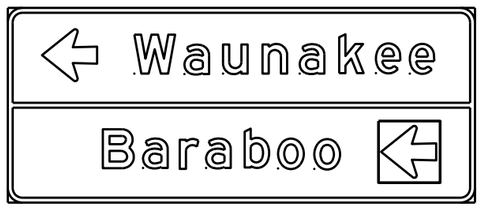
1. Materials shall conform to Standard Specification Section 637.
   Base - Sheet Aluminum 0.040" Thickness
   Sheeting - Orange Type F Reflective
   Arrow - Black Non-Reflective
2. Arrow signs shall be fastened to permanent sign by either aluminum rivets or aluminum self-tapping sheet metal screws. There shall be a minmum of 2 fasteners used per arrow sign.
3. There shall be a spacer consisting of a 0.08" nylon washer between the back of the arrow sign and the face of the permanent sign.
4. Arrows are per standard plate A1-2
5. Use separate arrow sign for each destination
6. Tilt arrow is always at 45 degrees
7. Arrow is centered on arrow sign

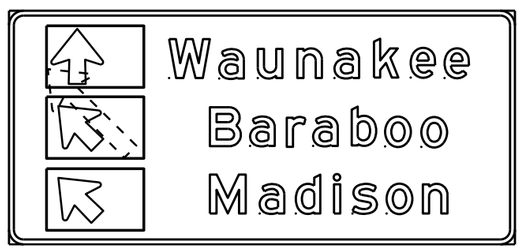
Lower Case Copy Size	Standard Width (Single Arrow)	2 Line Tilt Arrow Cover Width	3 Line Tilt Arrow Cover Width	Height
3¾" Series C	8	9 ½	14 ½	8
4½" Series D & E	9 ½	10	15	9 ½
6" Series D & E	14	16	20 ½	14
8" Series E	17 ½	20 ½	25	17 ½

BEFORE



AFTER





DESTINATION DIRECTIONAL ARROW FOR DETOUR SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/08/14

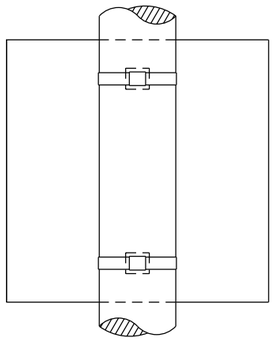
A4-12.2

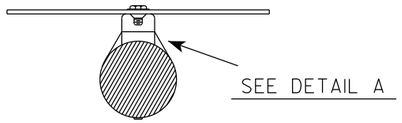
PROJECT NO:

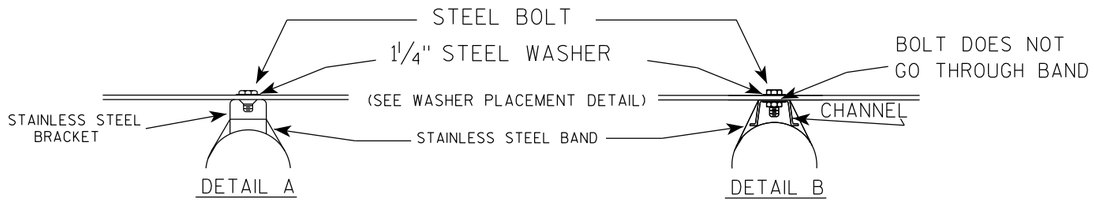
SHEET NO: E

BANDING

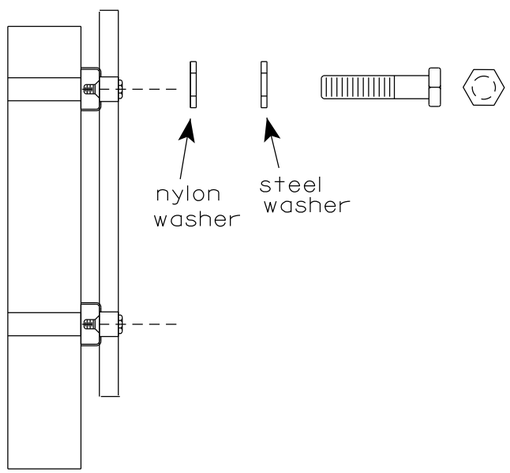
SINGLE SIGN







WASHER PLACEMENT

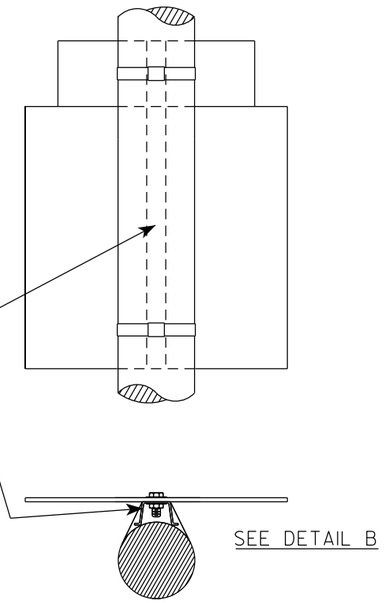


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

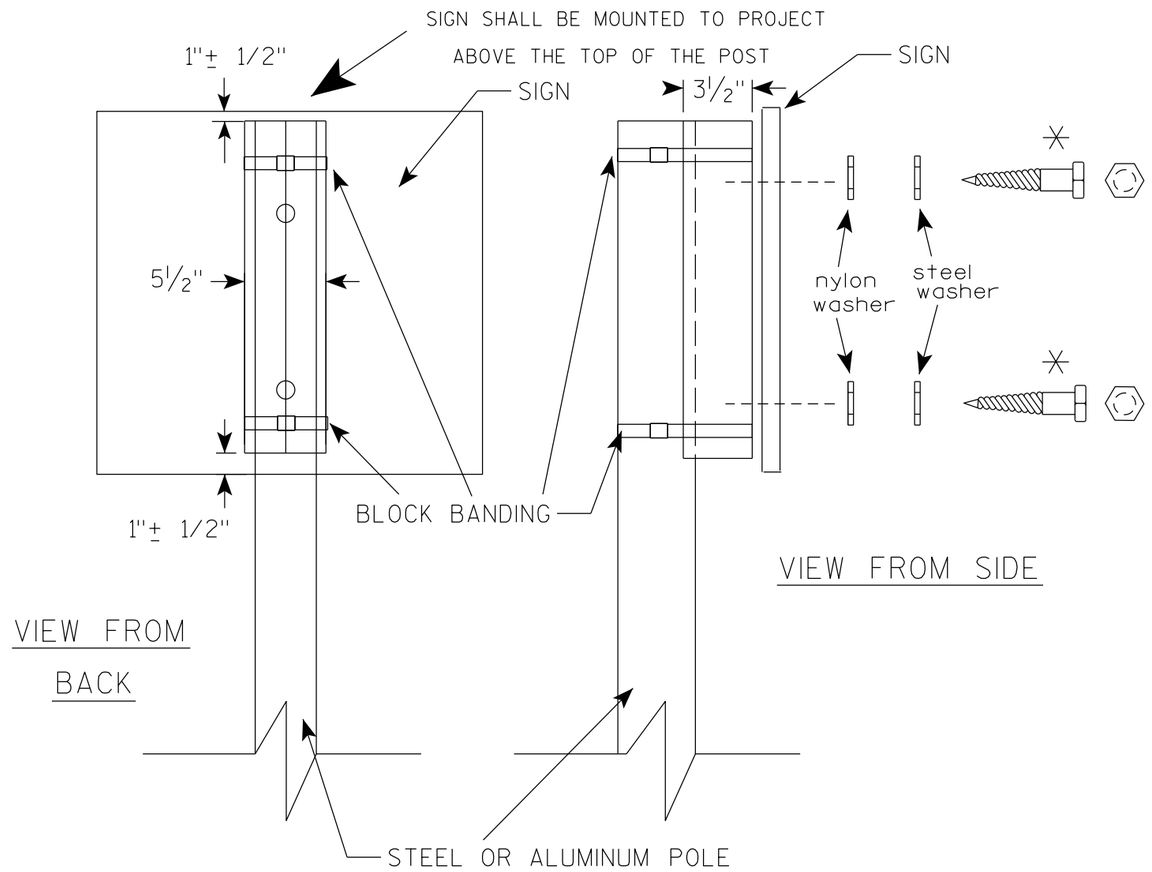
DATE 6/10/19 PLATE NO. A5-9.4

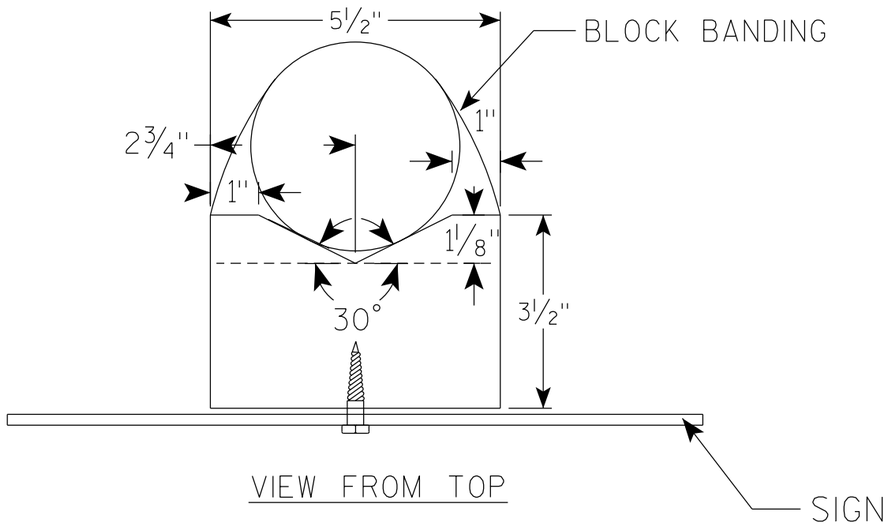
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 38	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

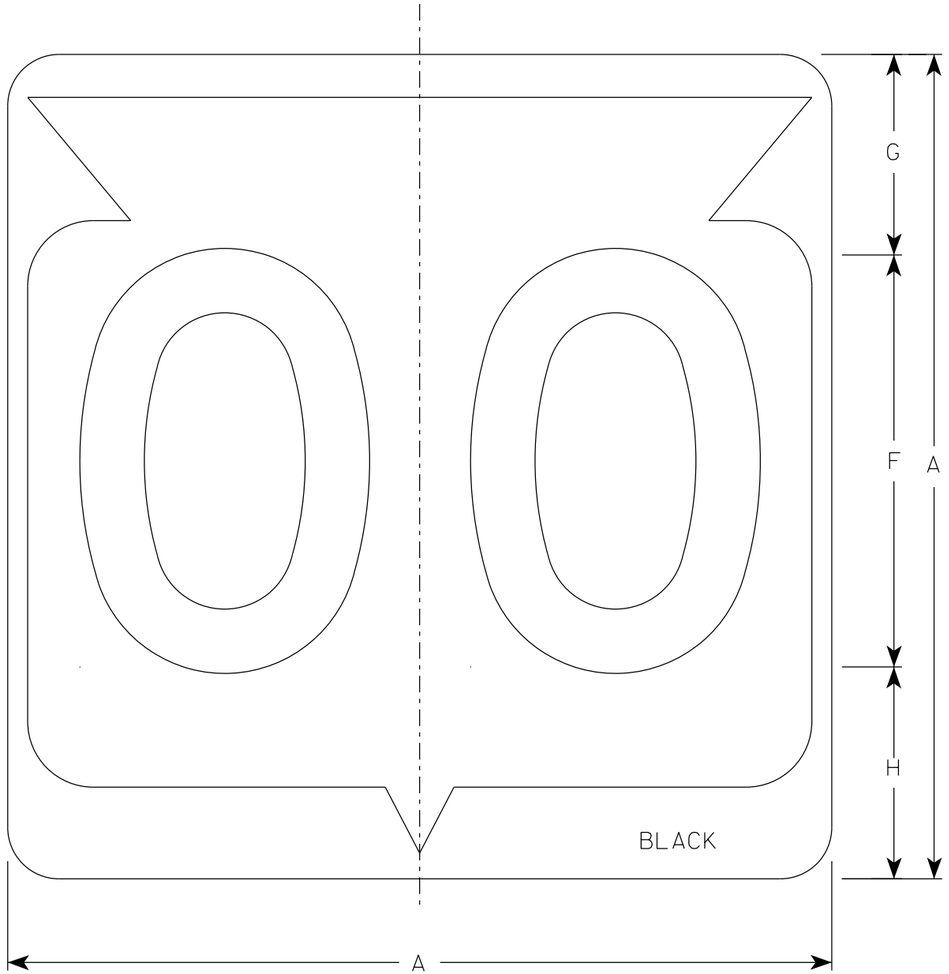
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

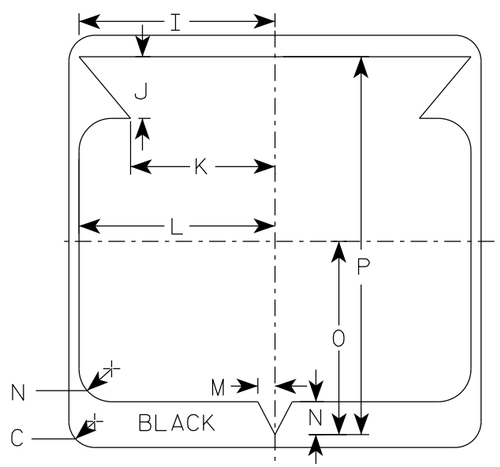
SHEET NO: 39 E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

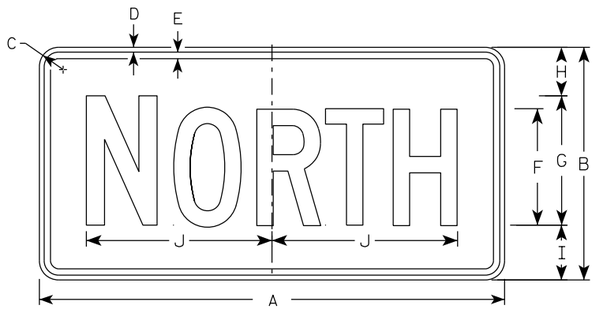
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

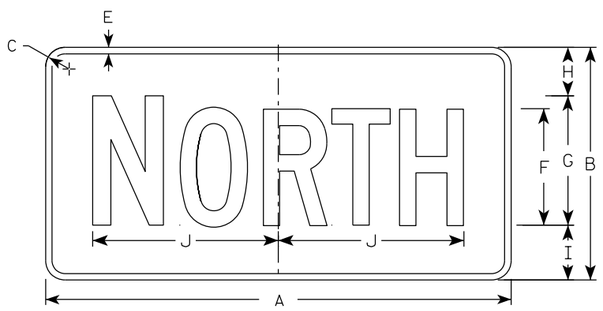
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

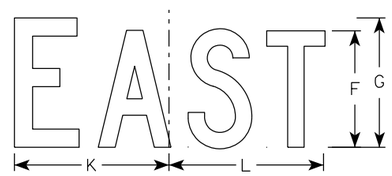
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 40	E



M3-1
MM3-1
MP3-1

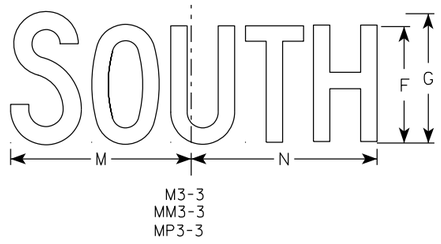


MB3-1
MK3-1
MN3-1

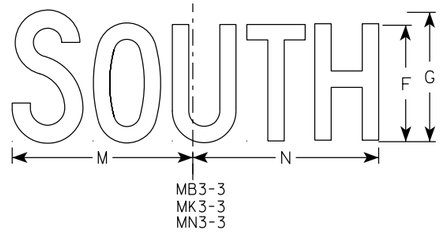


M3-2
MM3-2
MP3-2

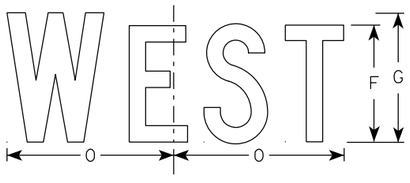
MB3-2
MK3-2
MN3-2



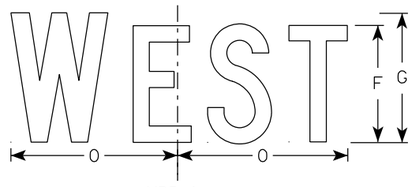
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
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. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

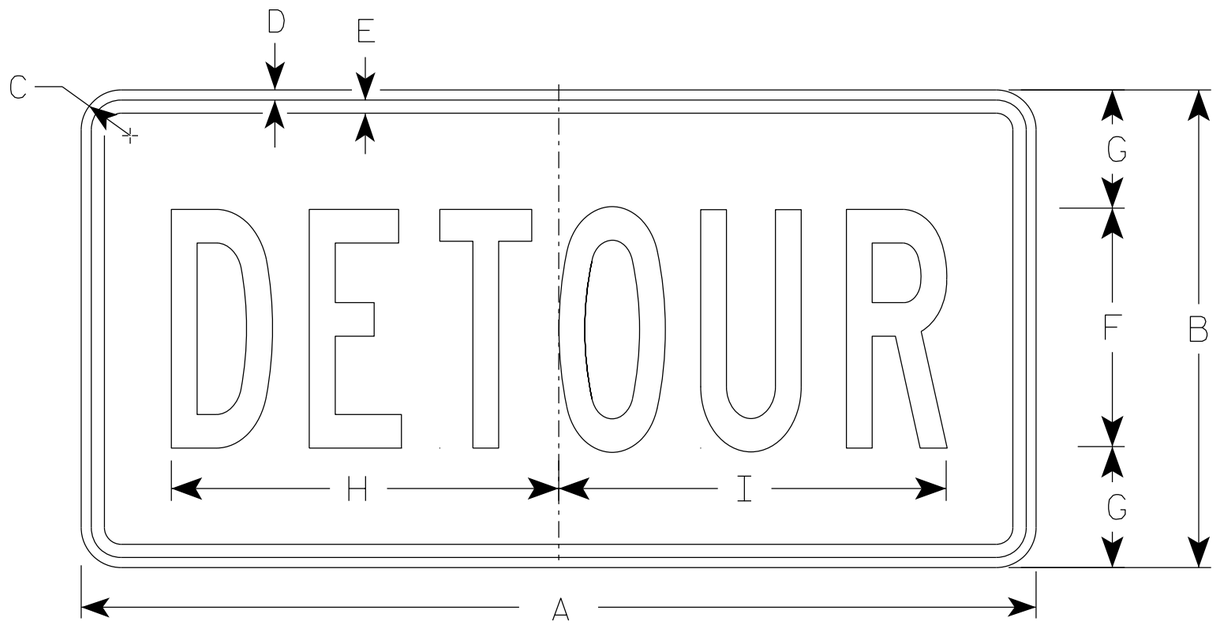
STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 41 | E



M4-8

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

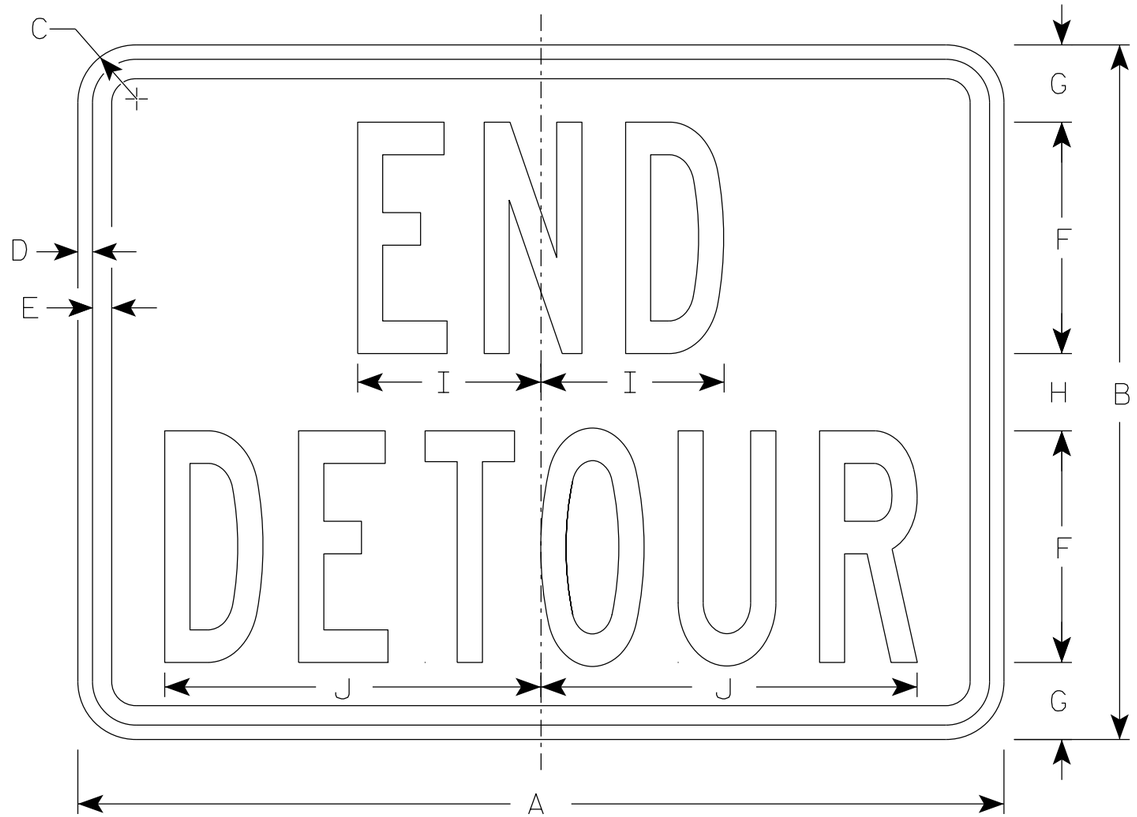
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 42	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

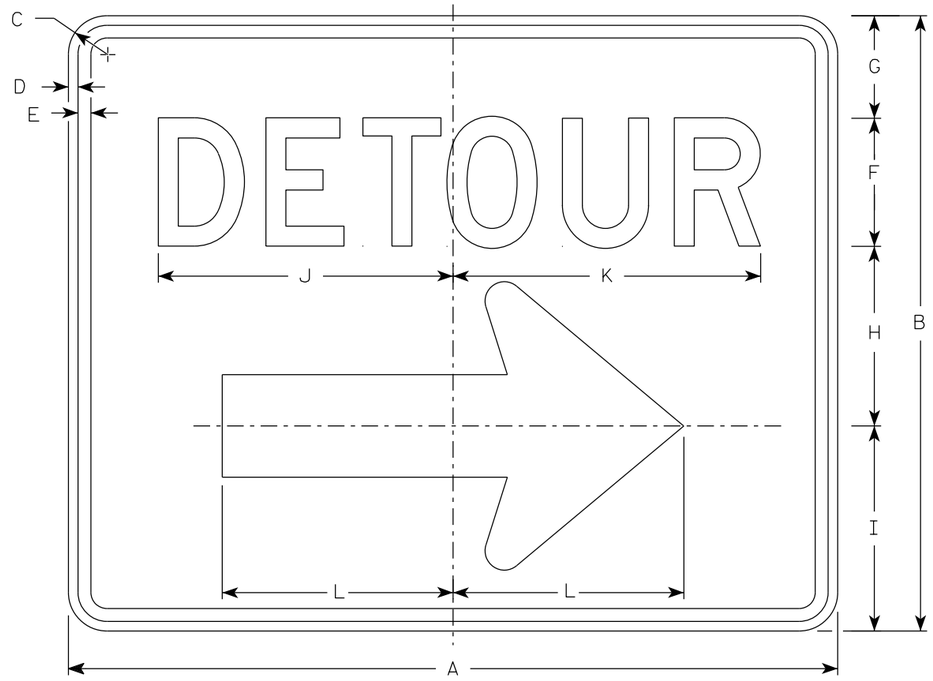
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

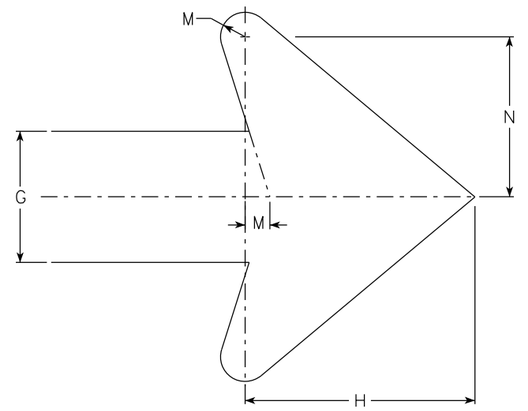
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 43 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   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.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

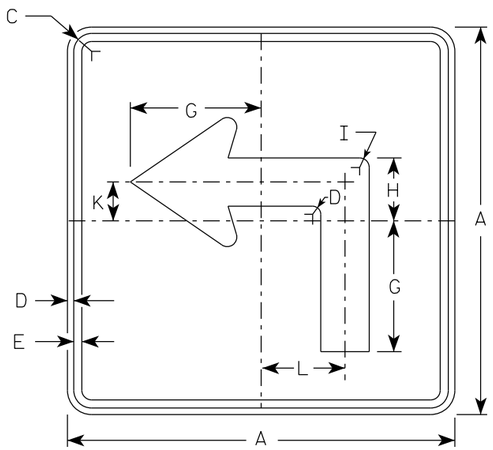
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

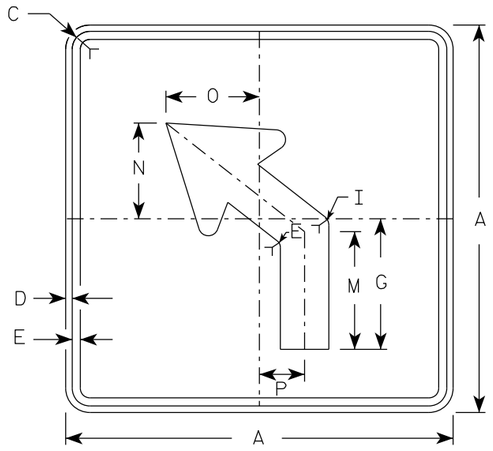
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

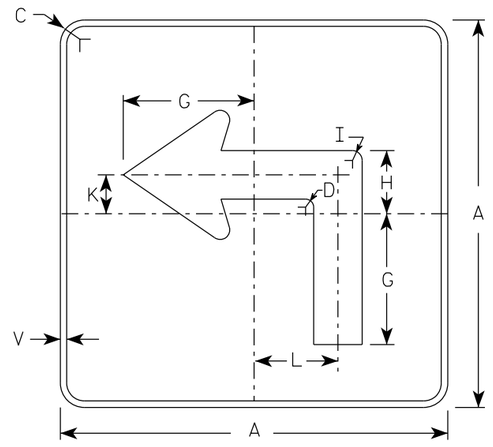
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



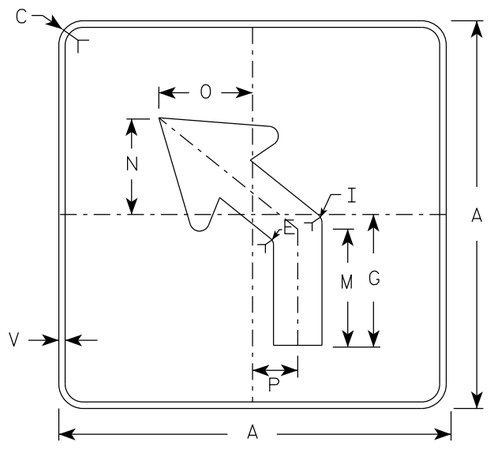
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

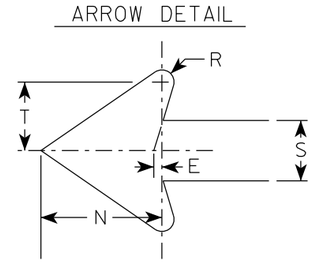


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

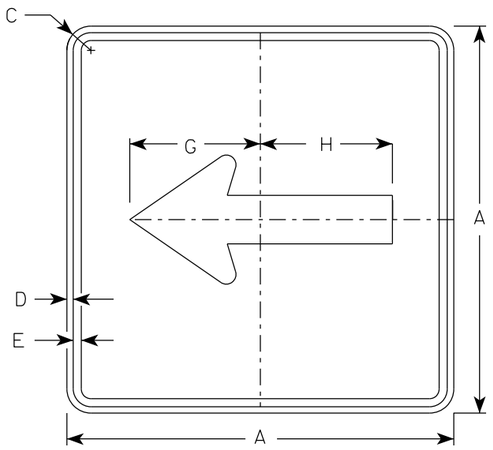
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

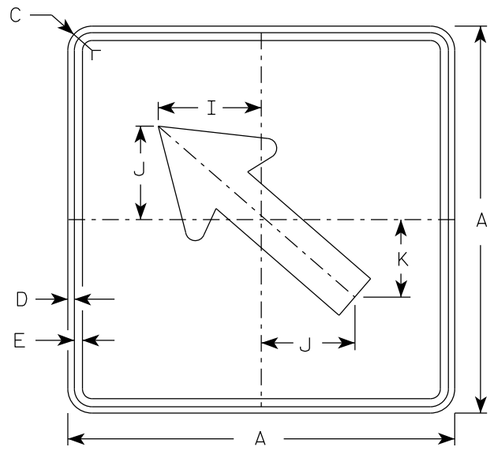
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

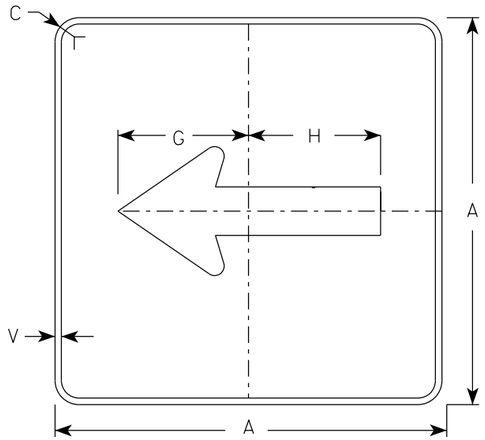
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 45 | E



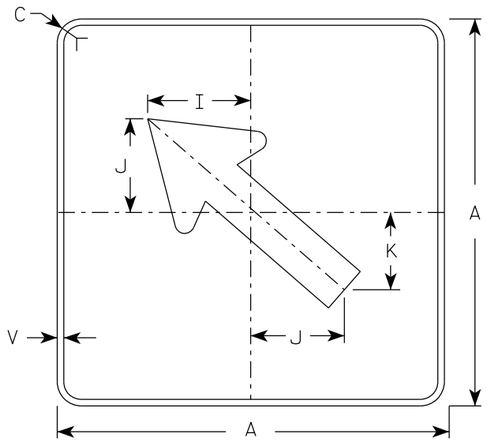
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

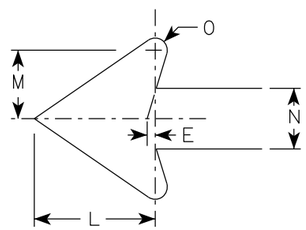


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

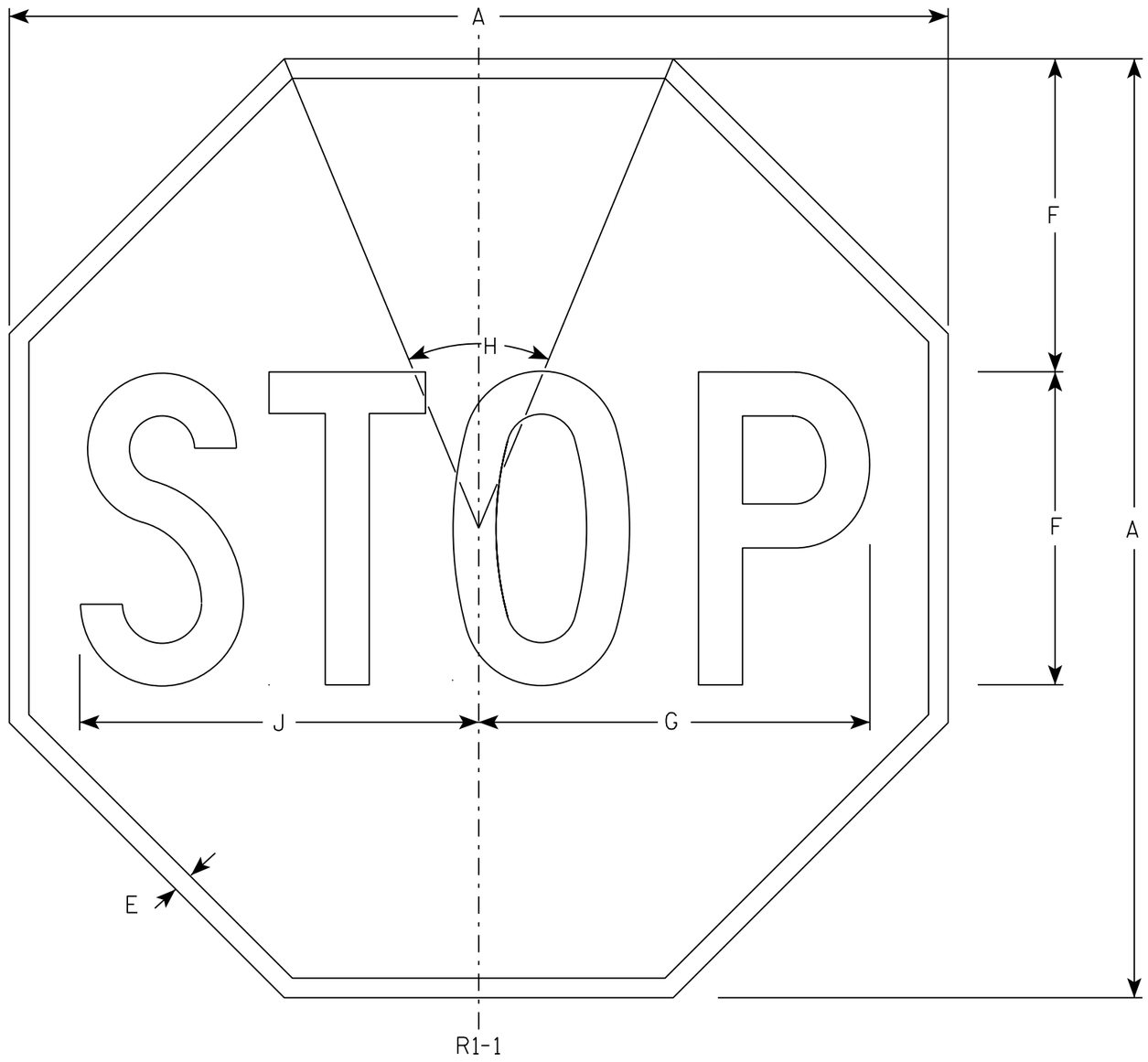
STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 46 | E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

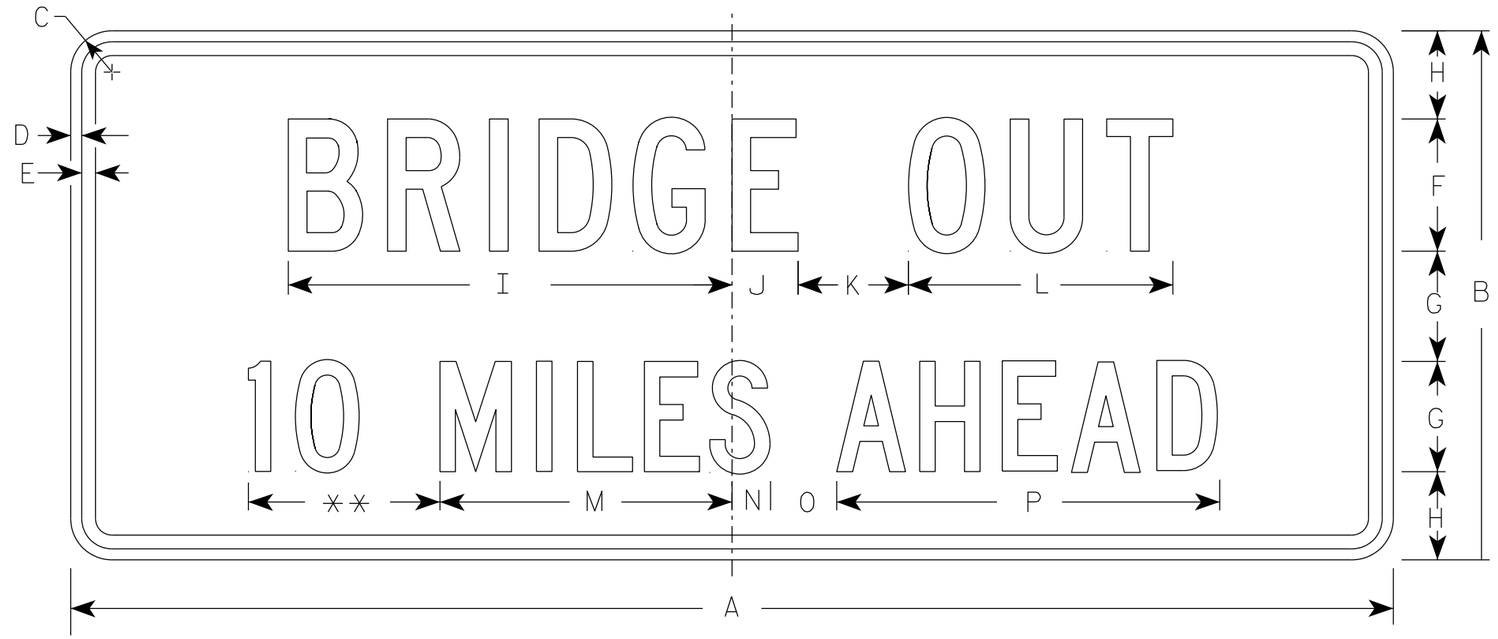
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 47	E

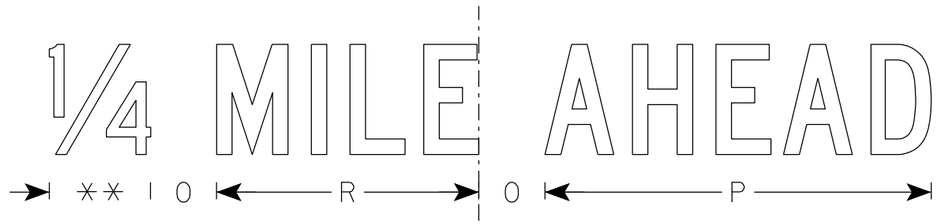
NOTES

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



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	15	1 1/2	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4		7 1/8									3.75
2S	60	24	1 7/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 7/8									10.0
2M	60	24	1 7/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 7/8									10.0
3																											
4																											
5																											

STANDARD SIGN
R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

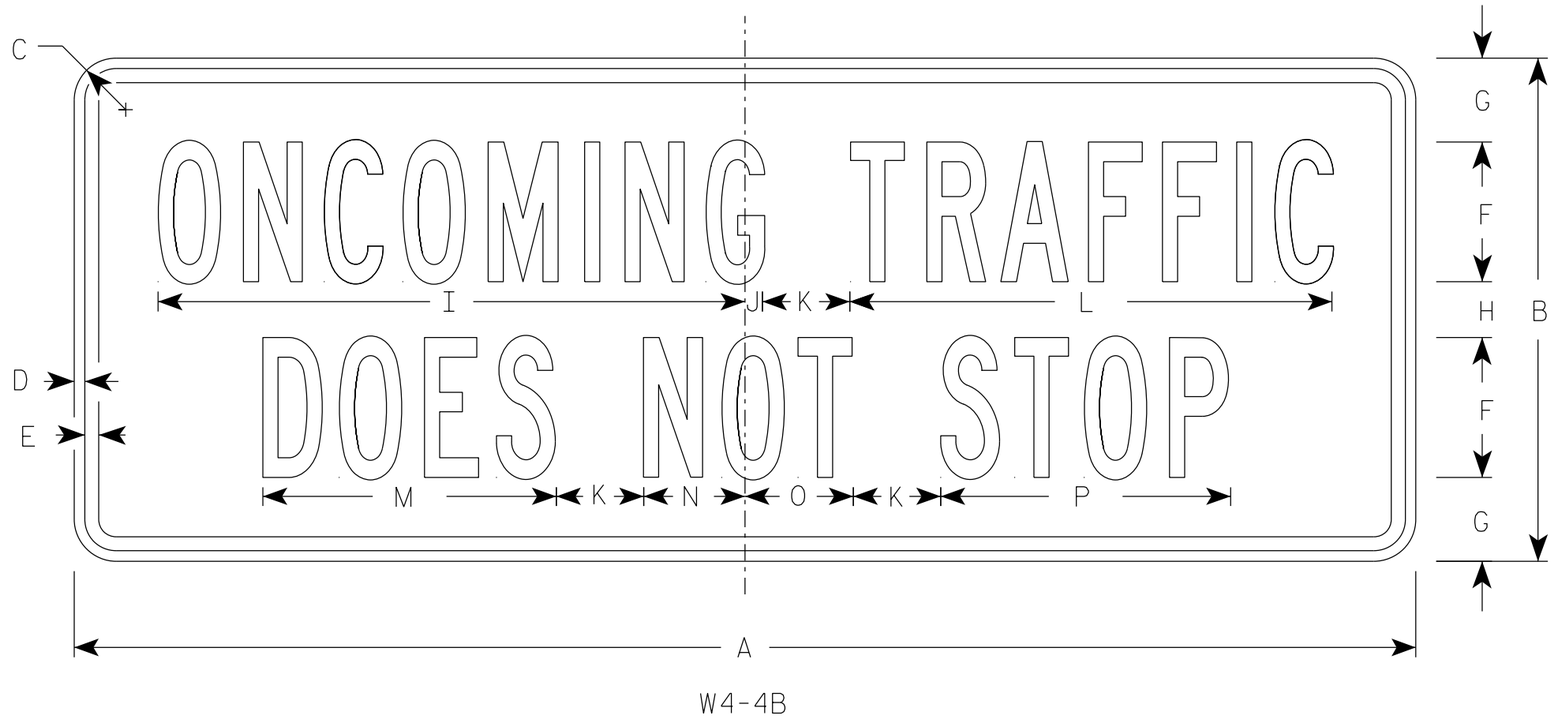
DATE 2/5/24 PLATE NO. R11-3C.4

PROJECT NO:

SHEET NO: 48 E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - B



W4-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	12	1 1/2	3/8	1/2	3	2 1/4	1 1/2	12 3/8	5/8	1 1/2	10 3/8	6 1/4	2 1/4	2 1/4	6 1/4											2.5
2M	30	12	1 1/2	3/8	1/2	3	2 1/4	1 1/2	12 3/8	5/8	1 1/2	10 3/8	6 1/4	2 1/4	2 1/4	6 1/4											2.5
3	42	15	1 1/2	3/8	1/2	4	2 5/8	1 3/4	16 7/8	5/8	2 3/8	13 7/8	8 3/8	3	3 1/8	8 3/8											4.38
4	48	18	1 1/2	3/8	1/2	5	3	2	21	5/8	3 1/8	17 1/4	10 1/2	3 5/8	3 7/8	10 3/8											6.0
5																											

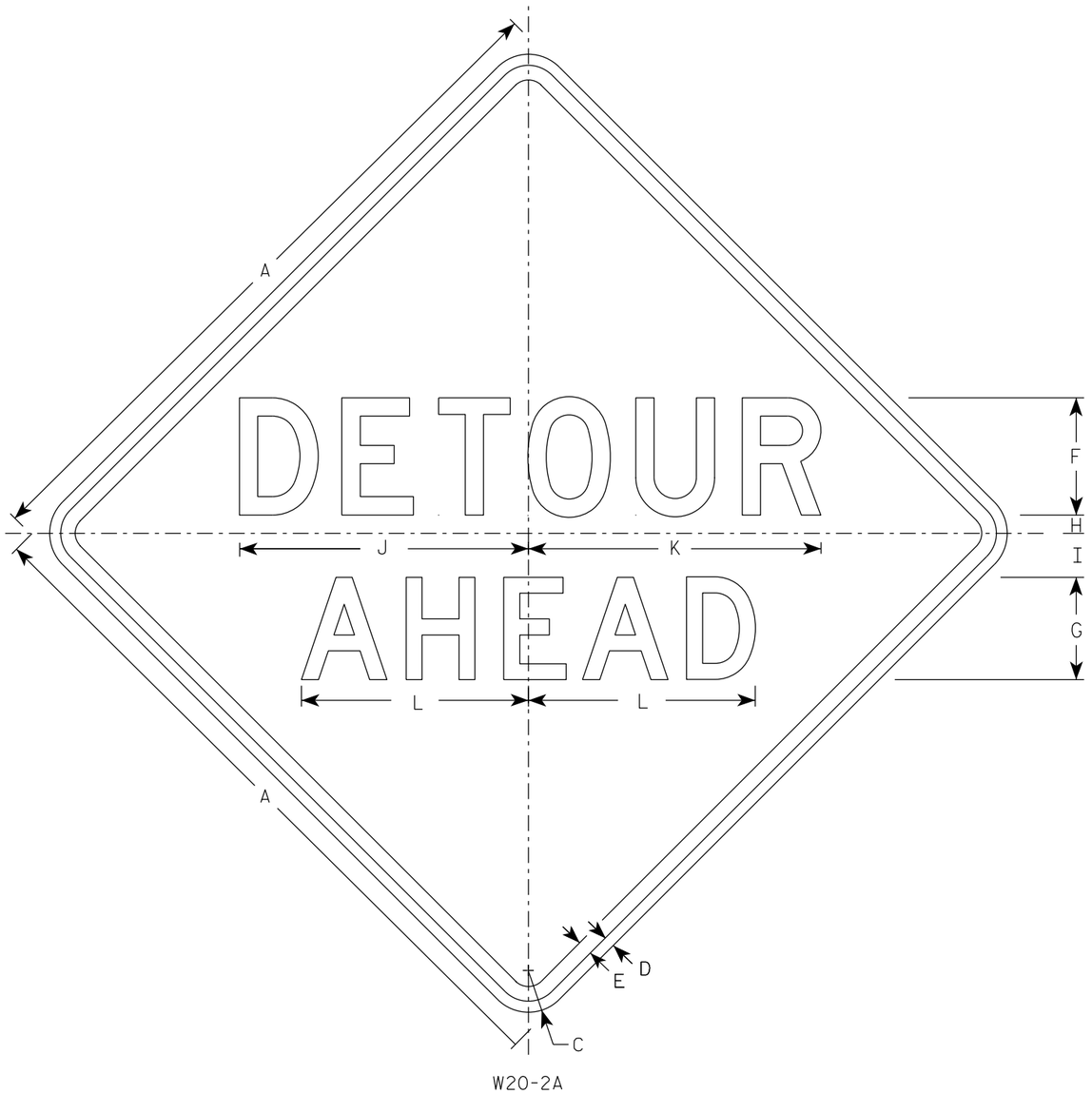
STANDARD SIGN
W4-4B

WISCONSIN DEPT OF TRANSPORTATION

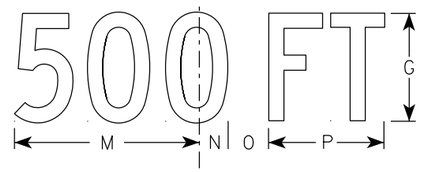
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/5/2023 PLATE NO. W4-4B.3

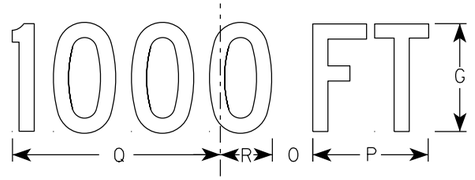
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



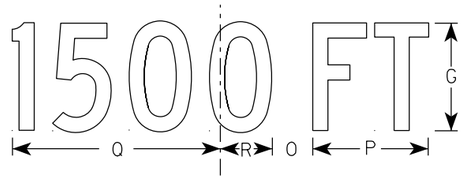
W20-2A



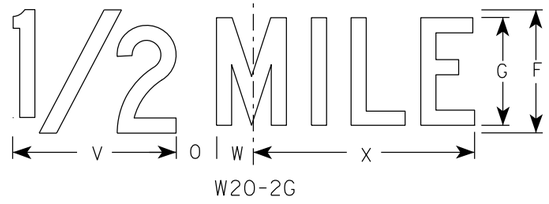
W20-2D



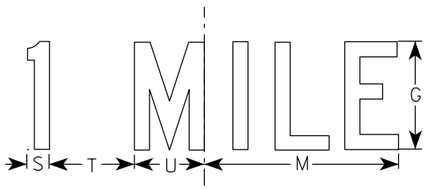
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
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. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

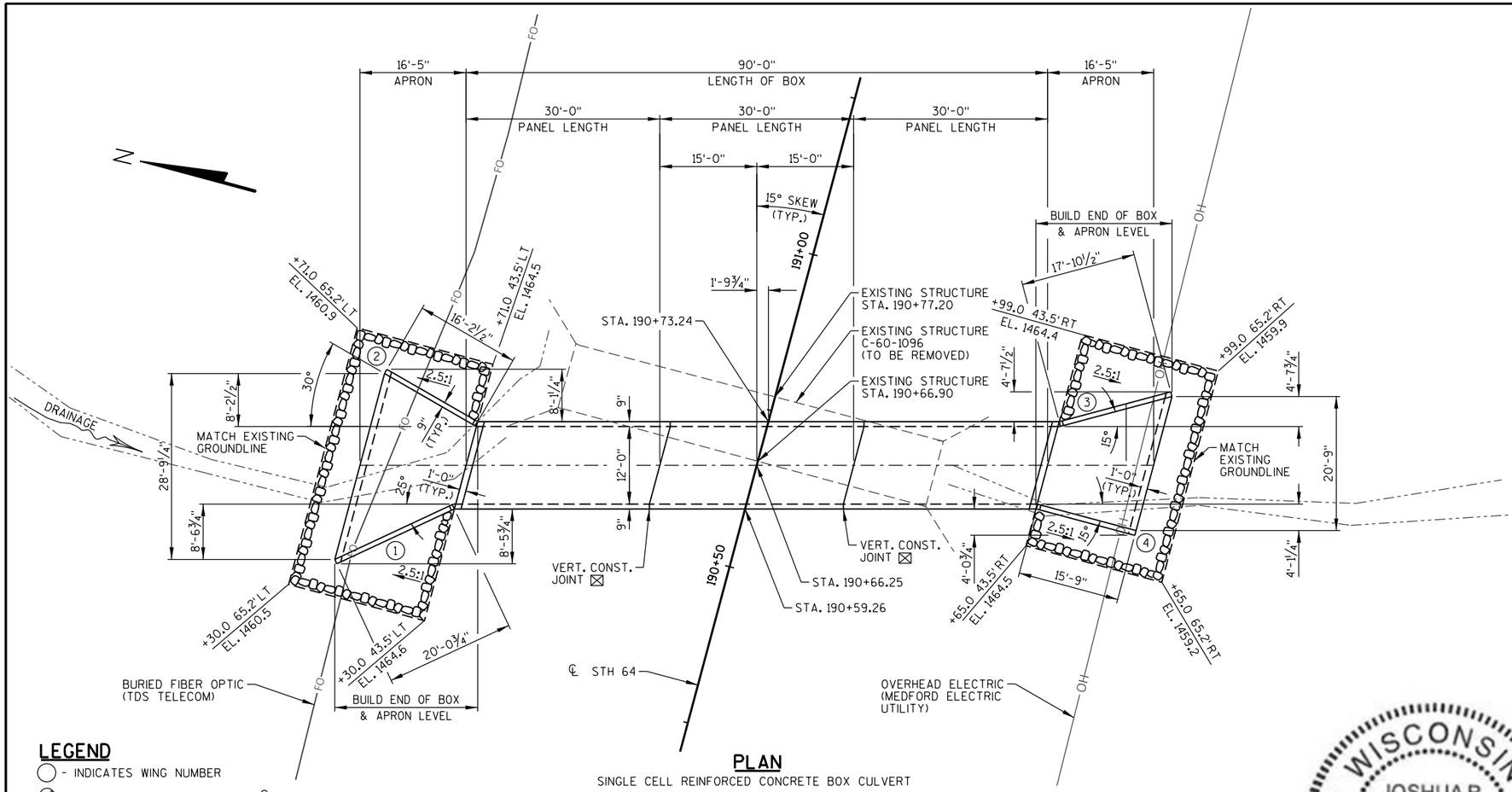
DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER

9000-00-74

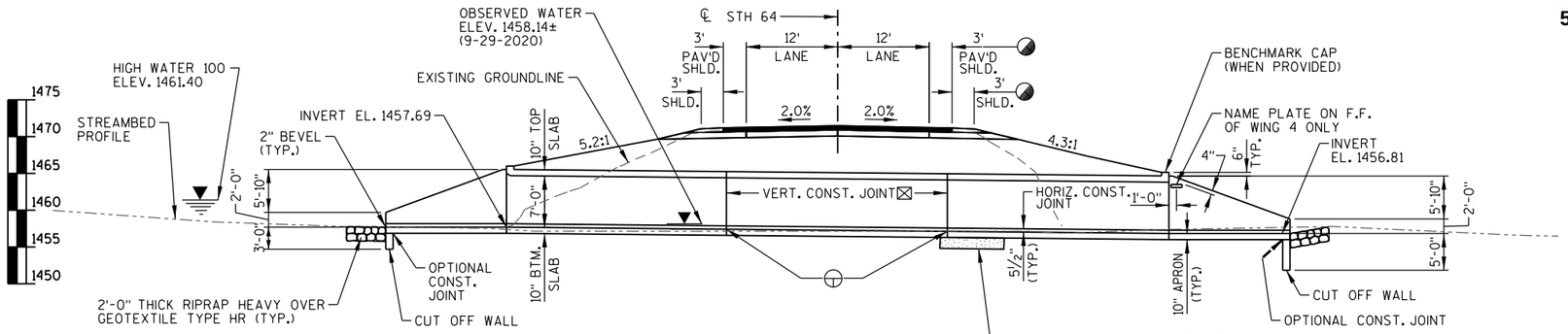


PLAN

SINGLE CELL REINFORCED CONCRETE BOX CULVERT

LEGEND

- ◯ - INDICATES WING NUMBER
- ◪ - DIMENSION GIVEN NORMAL TO ℄ STH 64.
- ☒ - 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING UP WALLS AND ACROSS TOP SLAB.
- ⊕ - IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY PROVIDE 2" DEEP SAWCUTS WITHIN 12 HOURS AFTER POURING.



ELEVATION

(LOOKING EAST - NORMAL TO BOX)

DESIGN DATA

LIVE LOAD:
- DESIGN LOADING: HL-93
- INVENTORY RATING FACTOR: 1.32
- OPERATIONAL RATING FACTOR: 1.72
- WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

TRAFFIC DATA:
- A.A.D.T. (2025) = 2,100
- A.A.D.T. (2045) = 2,300
- R.D.S. = 60 MPH

EARTH LOAD:
- DESIGNED FOR FILL HEIGHT RANGE OF 6 TO 7 FEET

MATERIAL PROPERTIES:

CONCRETE MASONRY	f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT HS STRUCTURES	fy = 60,000 P.S.I.

HYDRAULIC DATA:

100 YEAR FREQUENCY

DRAINAGE AREA	0.47 SQ. MI.
Q_{100}	150 C.F.S.
VELOCITY	4.65 F.P.S.
WATERWAY AREA	32.3 S.F.
HIGH WATER $_{100}$ ELEVATION	1461.40
ROADWAY OVERFLOW DESIGN FREQUENCY	>100 YEARS
SCOUR CRITICAL CODE	8
Q_2 ELEVATION (40 C.F.S.)	1460.54
$VELOCITY_2$	1.86 F.P.S.

LIST OF DRAWINGS

WISCONSIN
JOSHUA R. SWENO
E-44384
WAUNAKEE
WI
PROFESSIONAL ENGINEER

5/31/2024

CONSULTANT DESIGN CONTACT:
JOSH SWENO
(608) 355-8852

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

NO.	DATE	REVISION	BY

MSA
ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
1702 PANKRATZ ST., MADISON WI 53704
(608) 242-7779 www.msa-ps.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 08/05/24
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-60-20

STH 64 OVER DRAINAGE

COUNTY	TOWN/~~CITY/VILLAGE~~
TAYLOR	BROWNING

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPEC.

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
DS	JZ	RLR	DS/JRS

GENERAL PLAN

SHEET 1 OF 6
51

8

8

FILE= 93742_C-60-20_01.DGN

93742_C-60-20_01.dgn 5/30/2024 2:53:27 PM ekazadi

STATE PROJECT NUMBER

9000-00-74

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
203.0211.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL C-60-1096	EACH	1
203.0220.01	REMOVING STRUCTURE C-60-1096	EACH	1
206.2001.01	EXCAVATION FOR STRUCTURES CULVERTS C-60-20	EACH	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	2440
311.0110	BREAKER RUN	TON	280
504.0100	CONCRETE MASONRY CULVERTS	CY	147
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	26,410
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,870
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	27
606.0300	RIPRAP HEAVY	CY	80
645.0105	GEOTEXTILE TYPE C	SY	365
645.0120	GEOTEXTILE TYPE HR	SY	195
	NON-BID ITEMS		
	PREFORMED FILLER	SIZE	¾"

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.

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

THE ALTERNATE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST IN PLACE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS.

THIS STRUCTURE WILL REPLACE THE EXISTING STRUCTURE, C-60-1096, A 12' LONG BURIED SINGLE SPAN CONCRETE SLAB BRIDGE WITH A 34' CLEAR ROADWAY WIDTH, SET ON CONCRETE ABUTMENTS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-60-20" SHALL BE THE EXISTING GROUND LINE.

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 TOP AND BEHIND APRON WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

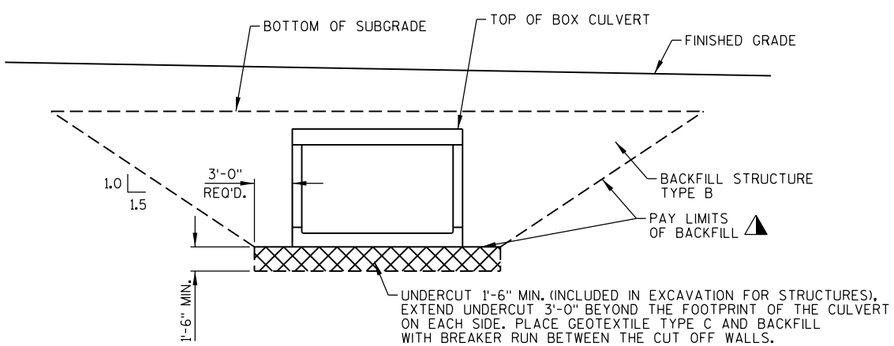
THE CONTRACTOR MAY FURNISH PRECAST BOX CULVERT BARREL SECTIONS, WINGWALLS, HEADERS, AND CUT OFF WALLS IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES MAINTENANCE SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 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.

1 – BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

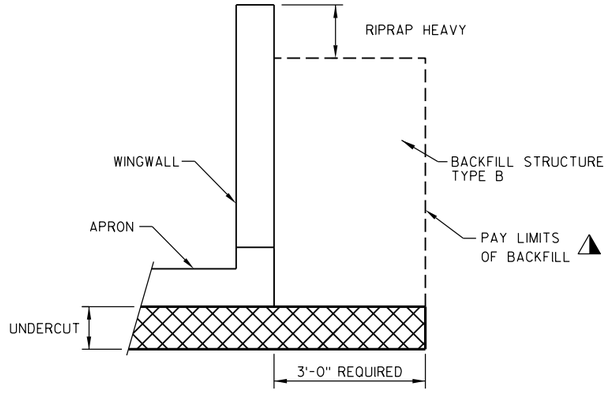
APRONS AND BOTTOM SLAB MAY BE POURED CONTINUOUSLY.

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

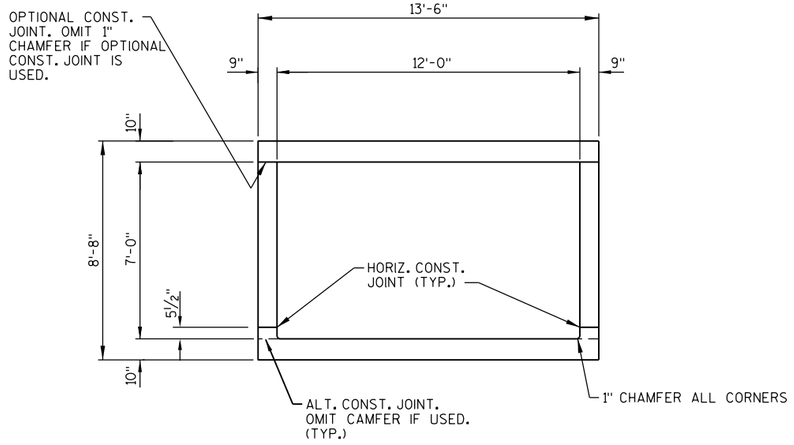
A TEMPORARY WATER DIVERSION SHALL BE PROVIDED DURING CONSTRUCTION OF THE NEW CULVERT. THE TEMPORARY WATER DIVERSION BID ITEM IS DETAILED IN THE SPECIAL PROVISIONS AND PROVIDED IN THE ROADWAY QUANTITIES.



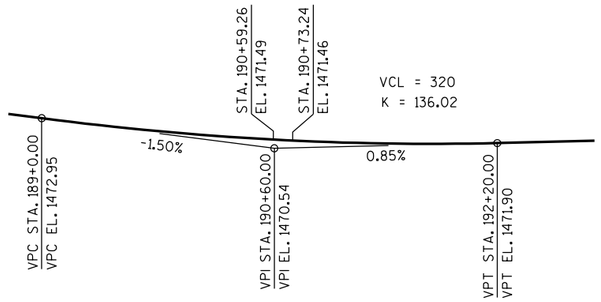
CULVERT BACKFILL STRUCTURE DETAIL



WINGWALL BACKFILL DETAIL



TYPICAL SECTION THRU BOX



PROFILE GRADE LINE - STH 64

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-60-20

DRAWN BY RLR | PLANS CK'D. DS/JRS

CROSS SECTION, QUANTITIES, NOTES & DETAILS

SHEET 2 OF 6
52

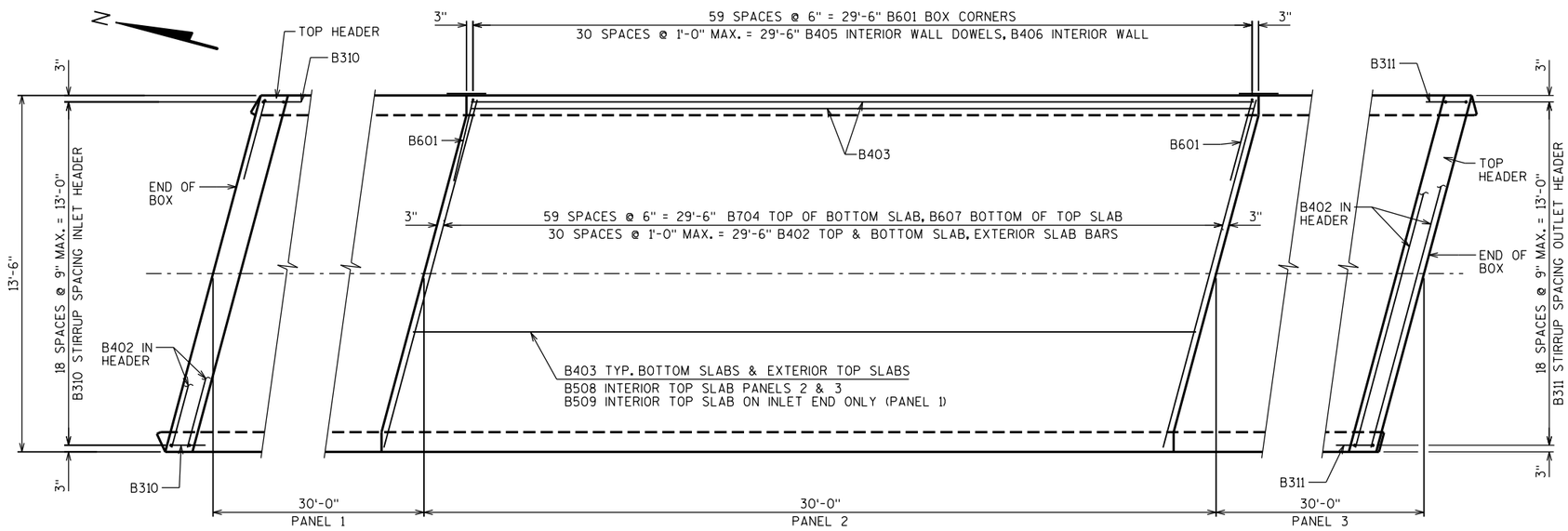
8

8

FILE= 93742_C-60-20_02.dgn
DATE= •DATE•

93742_C-60-20_02.dgn 5/31/2024 11:06:38 AM ekazadi

STATE PROJECT NUMBER
9000-00-74



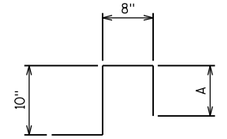
PLAN VIEW OF PANELS

BARSTEEL SPACING FOR PANEL 2 SHOWN
BARSTEEL SPACING FOR PANELS 1 & 3 SIMILAR

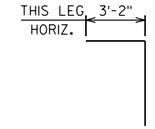
BILL OF BARS — UNCOATED 25,030 LBS.

MARK	NO. REQ'D.	LENGTH	BENT	LOCATION
B601	720	8'-2"	X	BOX CORNERS - TOP & BOTTOM - TRANS.
B402	190	13'-7"		BOX EXTERIOR SLAB & HEADERS - TRANS.
B403	150	29'-8"		BOX BOTTOM SLAB, EXTERIOR TOP SLAB & WALLS - LONGIT.
B704	180	13'-7"		BOX INTERIOR BOTTOM SLAB - TRANS.
B405	186	2'-1"		BOX INTERIOR WALL DOWELS - VERT.
B406	186	7'-2"		BOX INTERIOR WALLS - VERT.
B607	180	13'-7"		BOX INTERIOR TOP SLAB - TRANS.
B508	28	29'-8"		BOX INTERIOR TOP SLAB - PANELS 2 & 3 - LONGIT.
B509	14	29'-4"		BOX INTERIOR TOP SLAB - INLET END - LONGIT.
B310	19	2'-5"	X	BOX INLET HEADER STIRRUPS - VERT.
B311	19	2'-8"	X	BOX OUTLET HEADER STIRRUPS - VERT.
B512	84	4'-0"		BOX VERT. CONST. JOINT DOWELS - HORIZ.

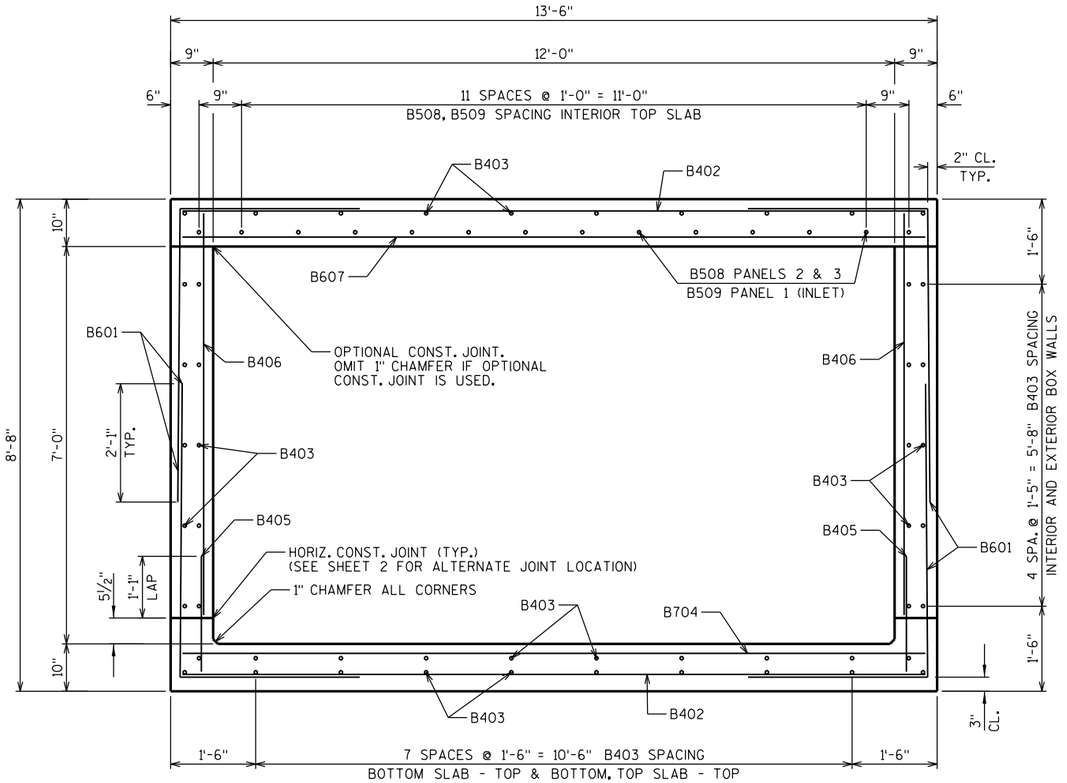
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



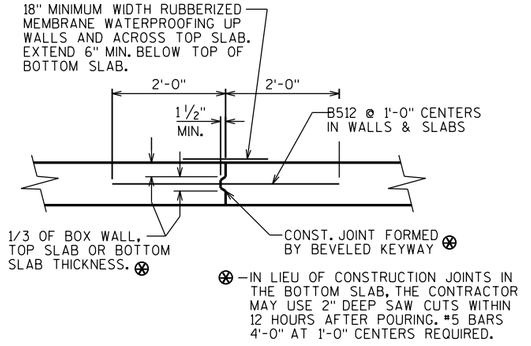
MARK	A
B310	8"
B311	11"



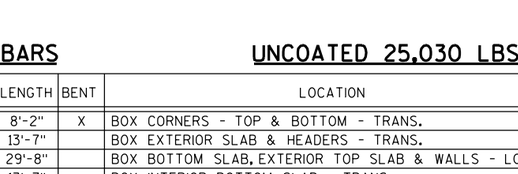
B601



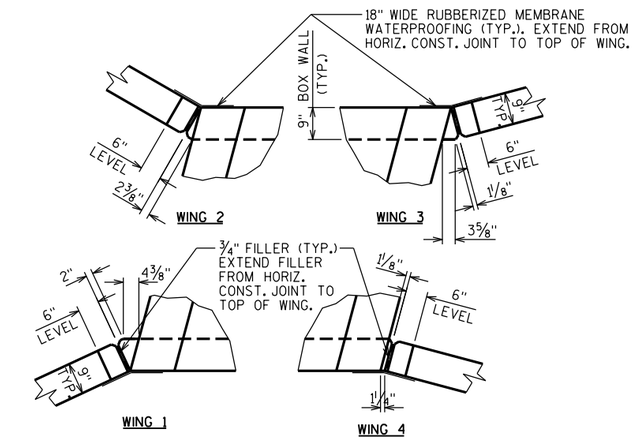
TYPICAL SECTION THRU BOX



VERTICAL CONSTRUCTION JOINT



SECTION THRU TOP HEADER



CORNER DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-60-20

DRAWN BY RLR | PLANS CK'D. DS/JRS

BOX CULVERT

SHEET 3 OF 6
53

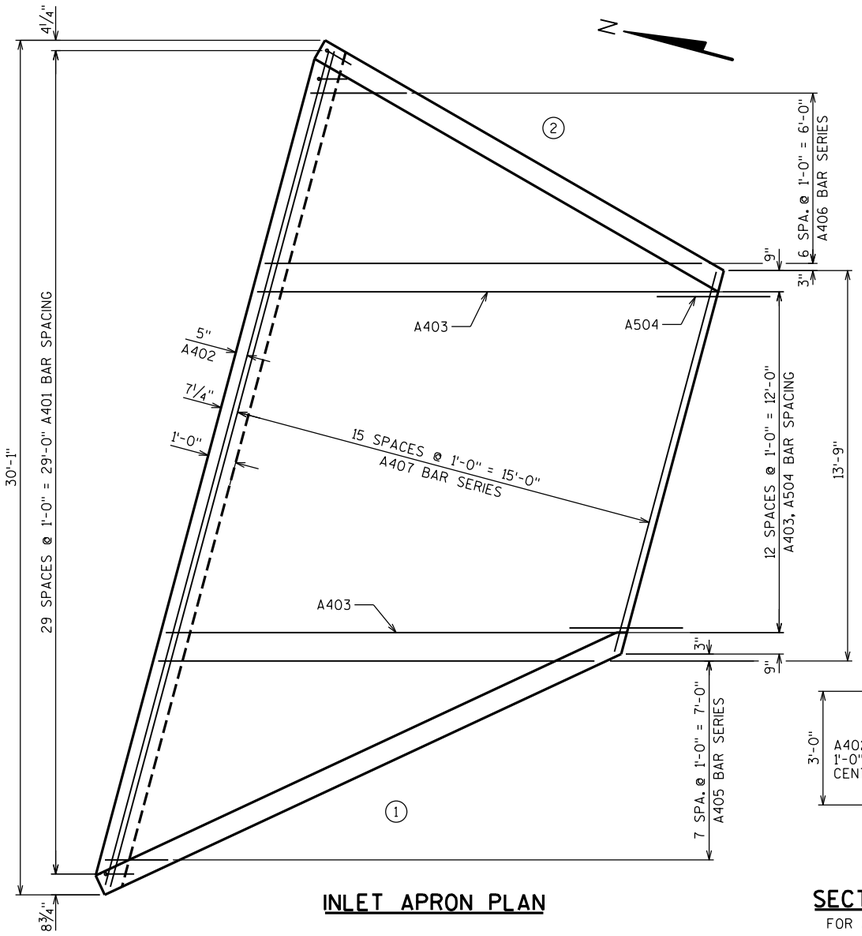
FILE= 93742_C-60-20_03.DGN

8

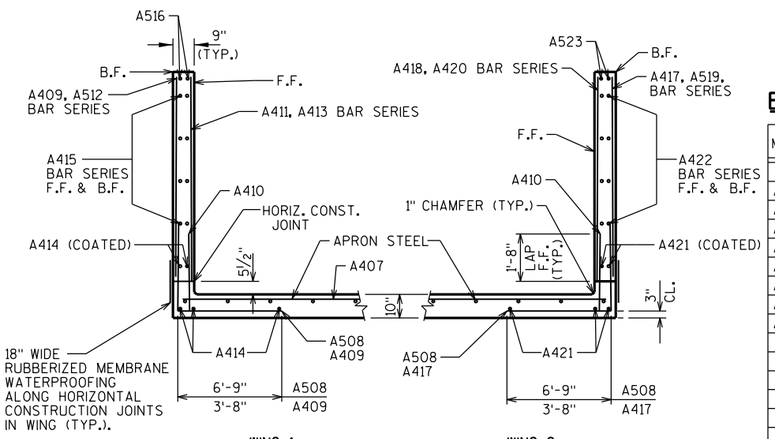
8

93742_C-60-20_03.dgn 5/31/2024 11:00:51 AM ekazadi

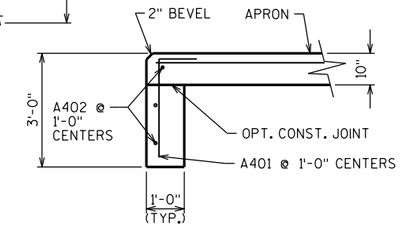
STATE PROJECT NUMBER
9000-00-74



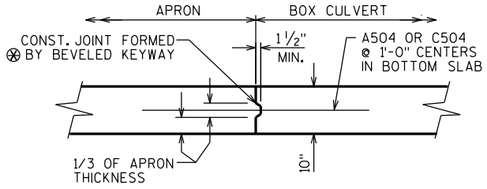
INLET APRON PLAN



SECTION THRU WINGS
(NORMAL TO WINGWALLS)



SECTION THRU INLET CUT OFF WALL
FOR ALTERNATE CUT OFF WALL DETAIL, SEE SHEET 5.



⊛ – IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING. #5 BARS 4'-0" AT 1'-0" CENTERS REQUIRED.

APRON CONNECTION DETAIL

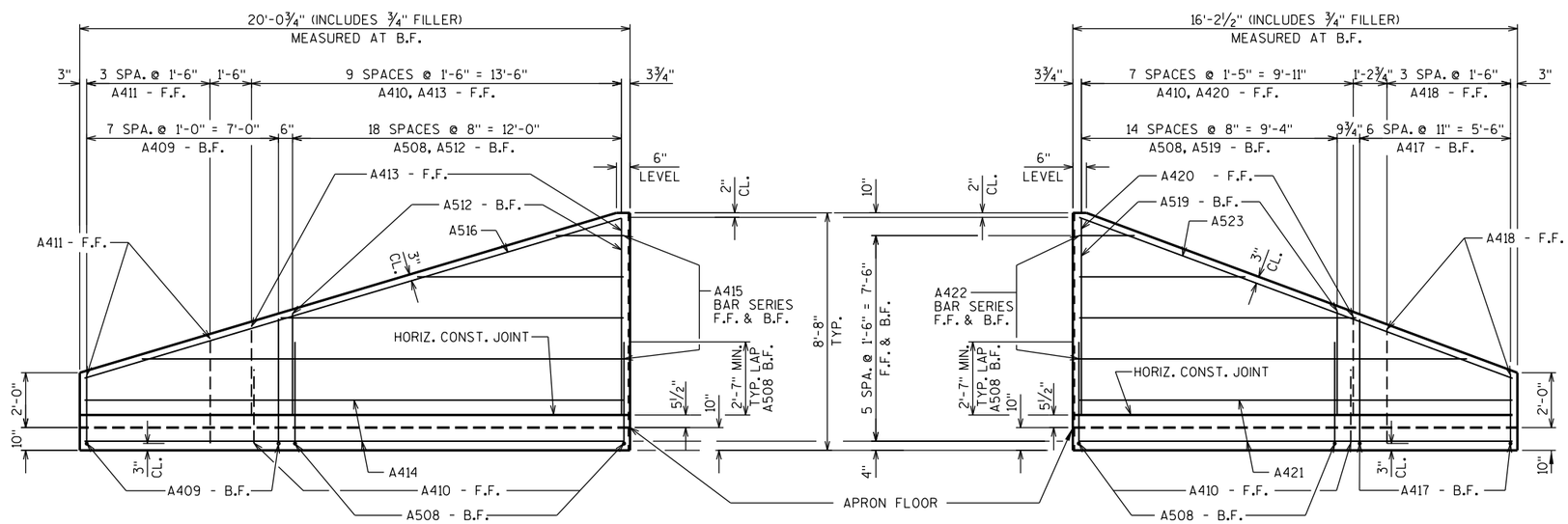
BILL OF BARS

COATED 970 LBS.
UNCOATED 720 LBS.

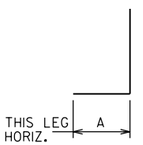
MARK	NUMBER REQUIRED COATED	NUMBER REQUIRED UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION
A401	-	30	3'-6"	X		INLET APRON CUT OFF WALL - VERT.
A402	-	3	30'-5"			INLET APRON CUT OFF WALL - TRANS.
A403	-	13	16'-1"			INLET APRON - LONGIT.
A504	-	13	4'-0"			INLET APRON CONNECTION DOWELS
A405	-	8	8'-9"		*	INLET APRON @ WING 1 - LONGIT.
A406	-	7	9'-4"		*	INLET APRON @ WING 2 - LONGIT.
A407	-	16	22'-2"		*	INLET APRON - TRANS.
A508	34	-	10'-4"	X		WINGS 1 & 2 - B.F. - VERT.
A409	8	-	7'-1"	X	*	WING 1 - B.F. - END - VERT.
A410	18	-	2'-9"			WINGS 1 & 2 - F.F. DOWELS - VERT.
A411	4	-	3'-1"		*	WING 1 - F.F. DOWELS - END - VERT.
A512	19	-	5'-5"		*	WING 1 - B.F. - VERT.
A413	10	-	5'-2"		*	WING 1 - F.F. - VERT.
A414	2	3	19'-7"			WING 1 & INLET APRON - LONGIT.
A415	8	-	10'-0"		*	WING 1 - F.F & B.F. - LONGIT.
A516	2	-	20'-5"			WING 1 - F.F. & B.F. - TOP - LONGIT.
A417	7	-	7'-1"	X	*	WING 2 - B.F. - END - VERT.
A418	4	-	3'-4"		*	WING 2 - F.F. DOWELS - END - VERT.
A519	15	-	5'-6"		*	WING 2 - B.F. - VERT.
A420	8	-	5'-5"		*	WING 2 - F.F. - VERT.
A421	2	3	15'-9"			WING 2 & INLET APRON - LONGIT.
A422	8	-	8'-1"		*	WING 2 - F.F. & B.F. - LONGIT.
A523	2	-	16'-10"			WING 2 - F.F. & B.F. - TOP - LONGIT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

* - LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.



INLET WING ELEVATIONS
LOOKING AT B.F. OF WINGS



MARK	A
A401	1'-0"
A508	6'-9"
A409	3'-8"
A417	3'-8"

BAR SERIES TABLE

MARK	NO. REQUIRED	LENGTH
A405	1 SERIES OF 8	2'-2" TO 15'-4"
A406	1 SERIES OF 7	3'-4" TO 15'-4"
A407	1 SERIES OF 16	13'-10" TO 30'-5"
A409	1 SERIES OF 8	6'-0" TO 8-1"
A411	1 SERIES OF 4	2'-5" TO 3'-9"
A512	1 SERIES OF 19	3'-8" TO 7'-2"
A413	1 SERIES OF 10	3'-2" TO 7'-2"
A415	2 SERIES OF 4	2'-5" TO 17'-7"
A417	1 SERIES OF 7	6'-1" TO 8'-1"
A418	1 SERIES OF 4	2'-6" TO 4'-2"
A519	1 SERIES OF 15	3'-9" TO 7'-2"
A420	1 SERIES OF 8	3'-7" TO 7'-2"
A422	2 SERIES OF 4	2'-0" TO 14'-2"

BUNDLE AND TAG EACH SERIES SEPARATELY.

LEGEND

◯ - INDICATES WING NUMBER
F.F.- FRONT FACE
B.F.- BACK FACE
CL. - CLEAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-60-20

DRAWN BY RLR | PLANS CK'D. DS/JRS

INLET APRON & WING DETAILS

SHEET 4 OF 6
54

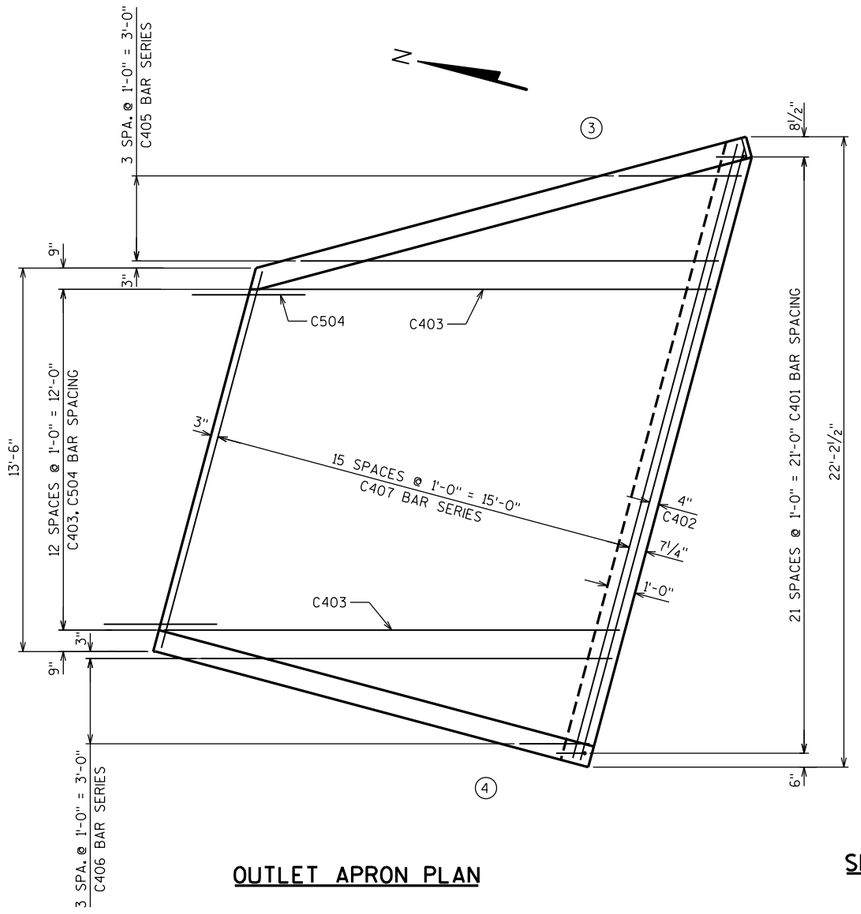
8

8

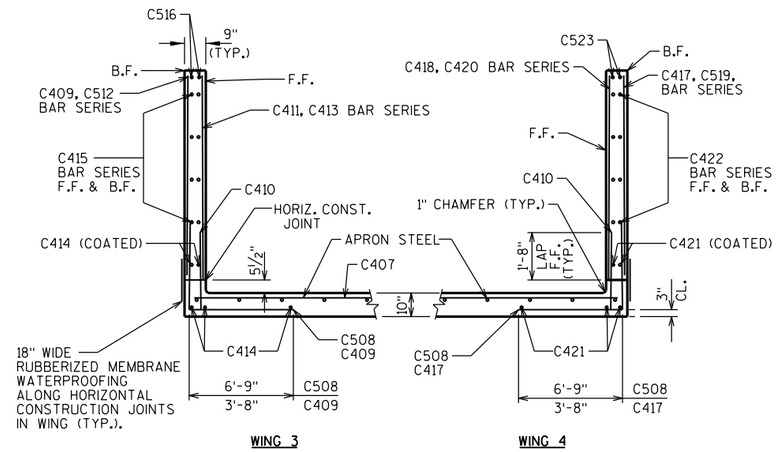
FILE= 93742_C-60-20_04.dgn

93742_C-60-20_04.dgn 5/31/2024 11:12:15 AM ekazadi

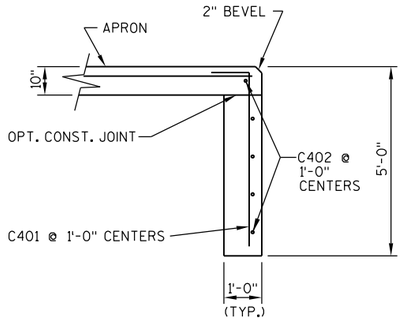
STATE PROJECT NUMBER
9000-00-74



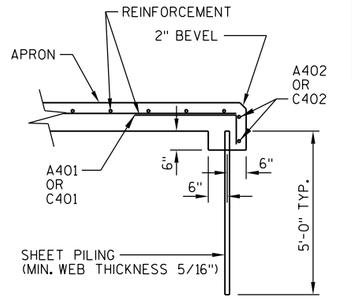
OUTLET APRON PLAN



SECTION THRU WINGS
(NORMAL TO WINGWALLS)



SECTION THRU OUTLET CUT OFF WALL



ALTERNATE CUT OFF WALL
PAYMENT BASED ON CONCRETE CUT OFF WALL.

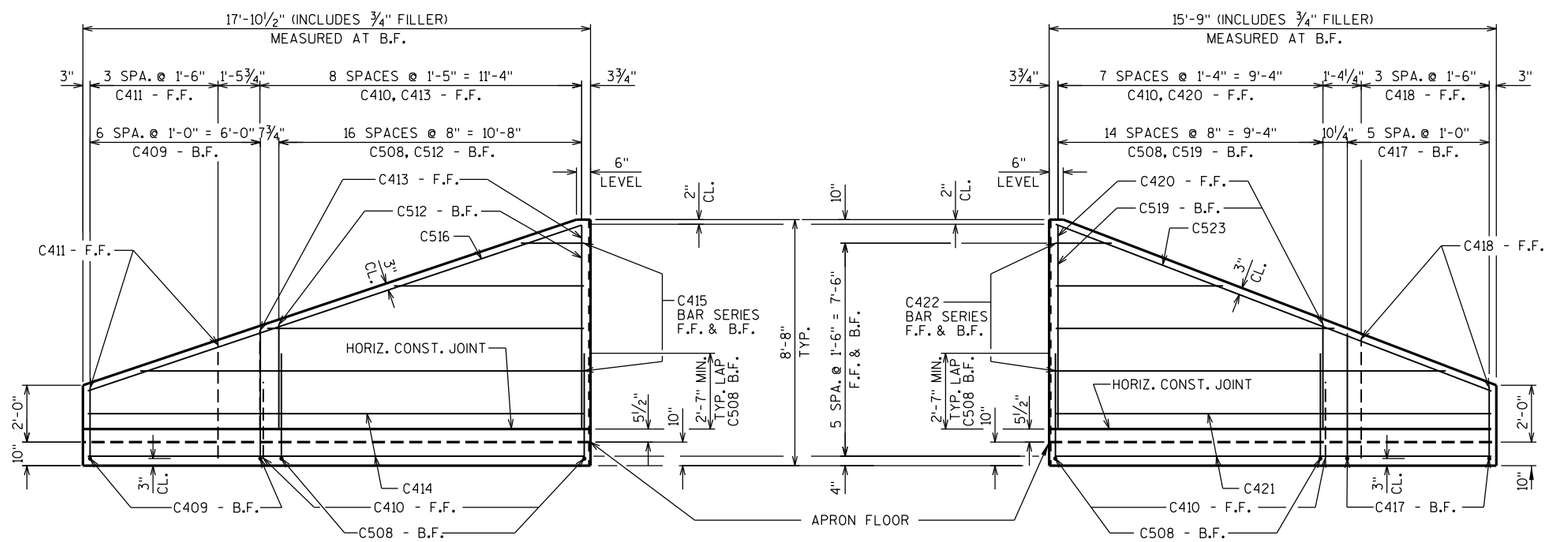
BILL OF BARS

COATED 900 LBS.
UNCOATED 660 LBS.

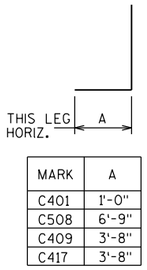
MARK	NUMBER REQUIRED COATED	NUMBER REQUIRED UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION
C401	-	22	5'-6"	X		OUTLET APRON CUT OFF WALL - VERT.
C402	-	5	22'-3"			OUTLET APRON CUT OFF WALL - TRANS.
C403	-	13	16'-1"			OUTLET APRON - LONGIT.
C504	-	13	4'-0"			OUTLET APRON CONNECTION DOWELS
C405	-	4	9'-6"		*	OUTLET APRON @ WING 3 - LONGIT.
C406	-	4	8'-5"		*	OUTLET APRON @ WING 4 - LONGIT.
C407	-	16	18'-0"		*	OUTLET APRON - TRANS.
C508	32	-	10'-4"	X		WINGS 3 & 4 - B.F. - VERT.
C409	7	-	7'-1"	X	*	WING 3 - B.F. - END - VERT.
C410	17	-	2'-9"			WINGS 3 & 4 - F.F. DOWELS - VERT.
C411	4	-	3'-3"		*	WING 3 - F.F. DOWELS - END - VERT.
C512	17	-	5'-5"		*	WING 3 - B.F. - VERT.
C413	9	-	5'-4"		*	WING 3 - F.F. - VERT.
C414	2	3	17'-6"			WING 3 & OUTLET APRON - LONGIT.
C415	8	-	8'-11"		*	WING 3 - F.F & B.F. - LONGIT.
C516	2	-	18'-4"			WING 3 - F.F. & B.F. - TOP - LONGIT.
C417	6	-	7'-1"	X	*	WING 4 - B.F. - END - VERT.
C418	4	-	3'-4"		*	WING 4 - F.F. DOWELS - END - VERT.
C519	15	-	5'-5"		*	WING 4 - B.F. - VERT.
C420	8	-	5'-5"		*	WING 4 - F.F. - VERT.
C421	2	3	15'-4"			WING 4 & OUTLET APRON - LONGIT.
C422	8	-	7'-10"		*	WING 4 - F.F. & B.F. - LONGIT.
C523	2	-	16'-5"			WING 4 - F.F. & B.F. - TOP - LONGIT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

* - LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.



WING 3 — OUTLET WING ELEVATIONS — WING 4
LOOKING AT B.F. OF WINGS



MARK	A
C401	1'-0"
C508	6'-9"
C409	3'-8"
C417	3'-8"

BAR SERIES TABLE

MARK	NO. REQUIRED	LENGTH
C405	1 SERIES OF 4	4'-4" TO 14'-8"
C406	1 SERIES OF 4	2'-5" TO 14'-5"
C407	1 SERIES OF 16	13'-8" TO 22'-4"
C409	1 SERIES OF 7	6'-1" TO 8-1"
C411	1 SERIES OF 4	2'-5" TO 4'-0"
C512	1 SERIES OF 17	3'-8" TO 7'-2"
C413	1 SERIES OF 9	3'-5" TO 7'-2"
C415	2 SERIES OF 4	2'-2" TO 15'-7"
C417	1 SERIES OF 6	6'-1" TO 8'-0"
C418	1 SERIES OF 4	2'-6" TO 4'-2"
C519	1 SERIES OF 15	3'-8" TO 7'-2"
C420	1 SERIES OF 8	3'-8" TO 7'-2"
C422	2 SERIES OF 4	1'-11" TO 13'-8"

BUNDLE AND TAG EACH SERIES SEPARATELY.

LEGEND

◯ — INDICATES WING NUMBER

F.F. — FRONT FACE

B.F. — BACK FACE

CL. — CLEAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-60-20

DRAWN BY RLR | PLANS CK'D. DS/JRS

OUTLET APRON & WING DETAILS

SHEET 5 OF 6
55

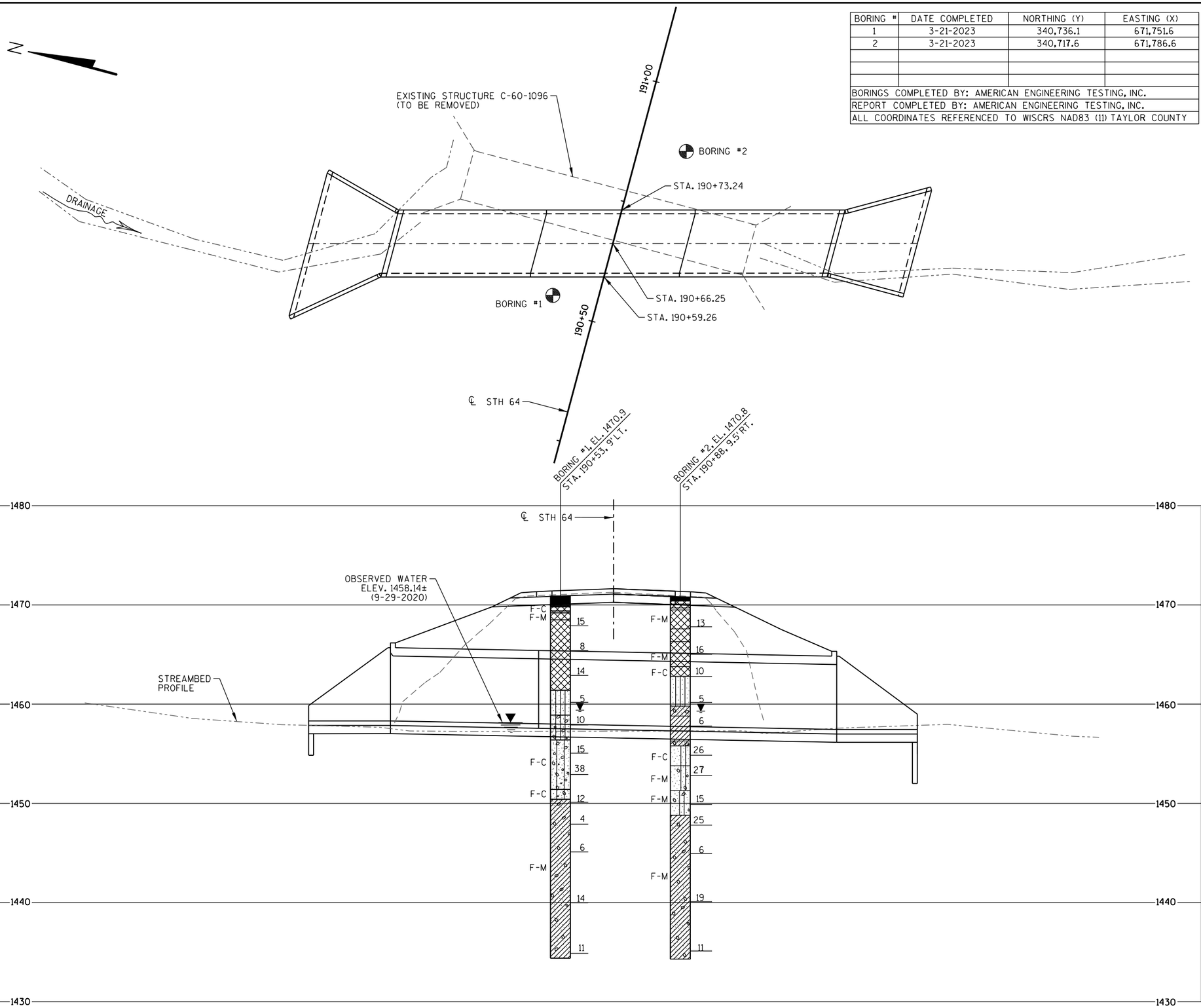
8

8

FILE= 93742_C-60-20_05.dgn

93742_C-60-20_05.dgn 5/31/2024 11:14:48 AM ekazadi

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	3-21-2023	340,736.1	671,751.6
2	3-21-2023	340,717.6	671,786.6
BORINGS COMPLETED BY: AMERICAN ENGINEERING TESTING, INC.			
REPORT COMPLETED BY: AMERICAN ENGINEERING TESTING, INC.			
ALL COORDINATES REFERENCED TO WISCRS NAD83 (11) TAYLOR COUNTY			



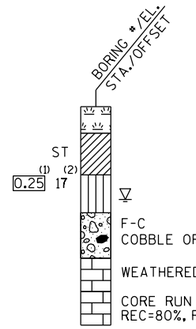
STATE PROJECT NUMBER

9000-00-74

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-60-20

DRAWN BY RLR | PLANS CK'D. DS/JRS

SUBSURFACE EXPLORATION

SHEET 6 OF 6
56

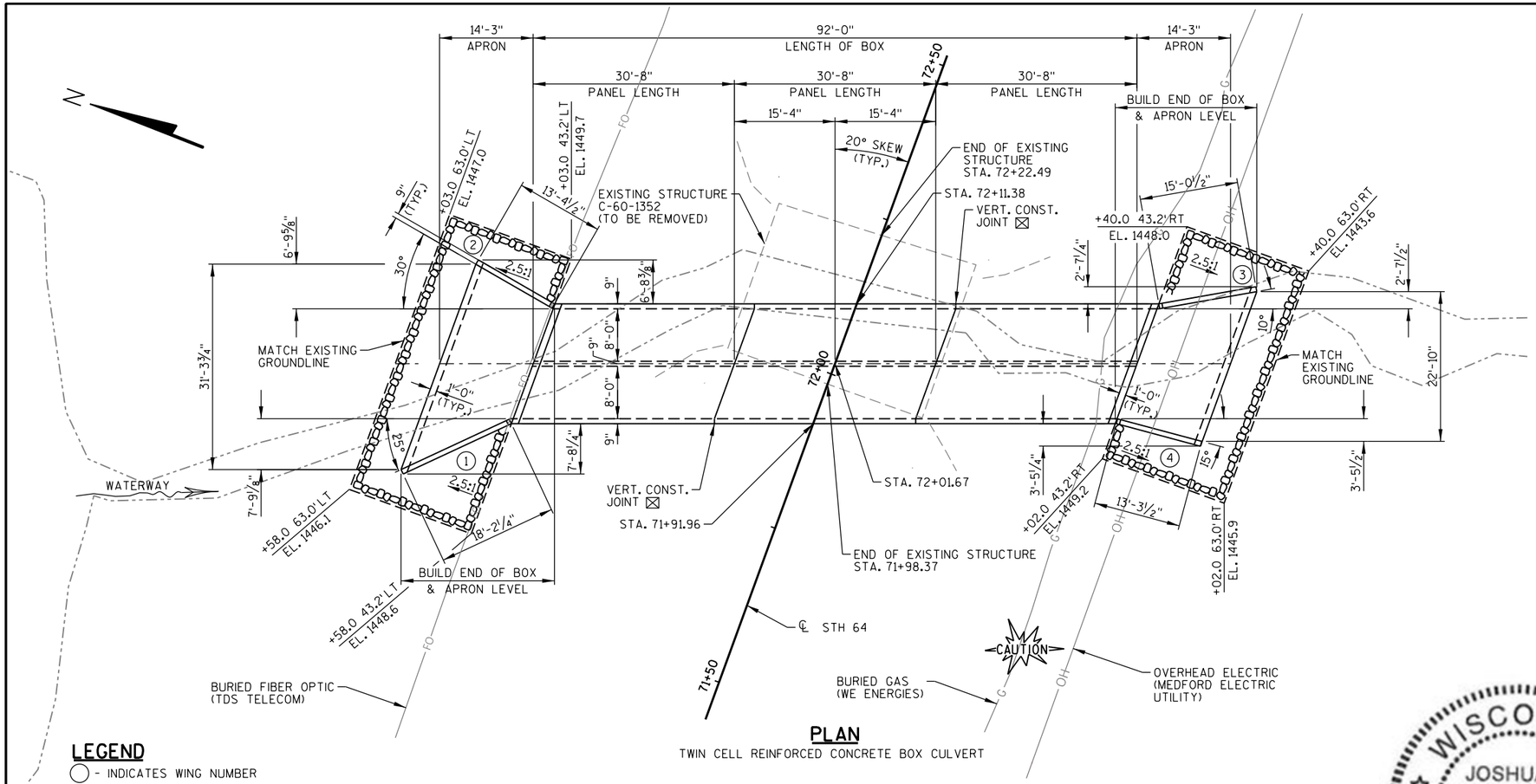
8

8

FILE= 93742_C-60-20_06.DGN

93742_C-60-20_06.dgn 5/29/2024 12:42:28 PM ekazadi

STATE PROJECT NUMBER
9000-00-75



PLAN

TWIN CELL REINFORCED CONCRETE BOX CULVERT

LEGEND

- ◯ - INDICATES WING NUMBER
- ◪ - DIMENSION GIVEN NORMAL TO ℄ STH 64.
- ☒ - 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING UP WALLS AND ACROSS TOP SLAB.
- ⊕ - IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY PROVIDE 2" DEEP SAWCUTS WITHIN 12 HOURS AFTER POURING.

DESIGN DATA

LIVE LOAD:
- DESIGN LOADING: HL-93
- INVENTORY RATING FACTOR: 1.19
- OPERATIONAL RATING FACTOR: 1.54
- WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

TRAFFIC DATA:
- A.A.D.T. (2025) = 2,100
- A.A.D.T. (2045) = 2,300
- R.D.S. = 60 MPH

EARTH LOAD:
- DESIGNED FOR FILL HEIGHT RANGE OF 2.5 TO 3.0 FEET

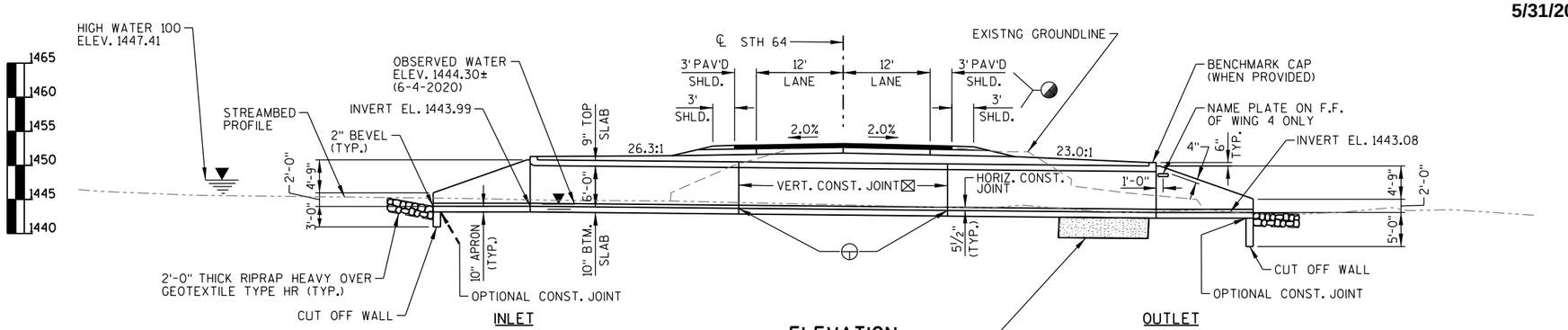
MATERIAL PROPERTIES:
- CONCRETE MASONRY — f'c = 3,500 P.S.I.
- BAR STEEL REINFORCEMENT HS STRUCTURES — fy = 60,000 P.S.I.

HYDRAULIC DATA:

100 YEAR FREQUENCY

DRAINAGE AREA	0.35 SQ. MI.
Q_{100}	170 C.F.S.
VELOCITY	4.4 F.P.S.
WATERWAY AREA	38.6 S.F.
HIGH WATER $_{100}$ ELEVATION	1447.41
ROADWAY OVERFLOW DESIGN FREQUENCY	>100 YEARS
SCOUR CRITICAL CODE	8
Q_2 ELEVATION (40 C.F.S.)	1446.41
VELOCITY$_2$	2.34 F.P.S.

LIST OF DRAWINGS



ELEVATION

(LOOKING EAST - NORMAL TO BOX)

UNDERCUT 3'-0" MIN. (INCLUDED IN EXCAVATION FOR STRUCTURES), EXTEND UNDERCUT 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT ON EACH SIDE. PLACE GEOTEXTILE TYPE C AND BACKFILL WITH BREAKER RUN BETWEEN THE CUT OFF WALLS.

WISCONSIN
JOSHUA R. SWENO
E-44384
WAUNAKEE WI
PROFESSIONAL ENGINEER

5/31/2024

CONSULTANT DESIGN CONTACT:
JOSH SWENO
(608) 355-8852

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

NO.	DATE	REVISION	BY

MSA
ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
1702 PANKRATZ ST., MADISON WI 53704
(608) 242-7779 www.msa-ps.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 08/05/24
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-60-21

STH 64 OVER WATERWAY

COUNTY	TOWN ~~/CITY/VILLAGE~~
TAYLOR	MEDFORD

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPEC.

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
DS	JRS	RLR	DS/JRS

GENERAL PLAN

8

8

FILE= 93743_C-60-21_01.DGN

93743_C-60-21_01.dgn 5/31/2024 1:16:48 PM ekazadi

STATE PROJECT NUMBER
9000-00-75

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
203.0220.02	REMOVING STRUCTURE C-60-1352	EACH	1
206.2001.02	EXCAVATION FOR STRUCTURES CULVERTS C-60-21	EACH	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	1275
311.0110	BREAKER RUN	TON	660
504.0100	CONCRETE MASONRY CULVERTS	CY	181
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	24,680
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,400
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	26
606.0300	RIPRAP HEAVY	CY	80
645.0105	GEOTEXTILE TYPE C	SY	475
645.0120	GEOTEXTILE TYPE HR	SY	190
	NON-BID ITEMS		
	PREFORMED FILLER	SIZE	¾"

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.

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

THE ALTERNATE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST IN PLACE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS.

THIS STRUCTURE WILL REPLACE THE EXISTING STRUCTURE, C-60-1352, A 24.1' LONG SINGLE SPAN STEEL DECK GIRDER BRIDGE WITH A 32' CLEAR ROADWAY WIDTH, SET ON TIMBER BACKED, TIMBER PILE ABUTMENTS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-60-21" SHALL BE THE EXISTING GROUND LINE.

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 STRUCTURES.

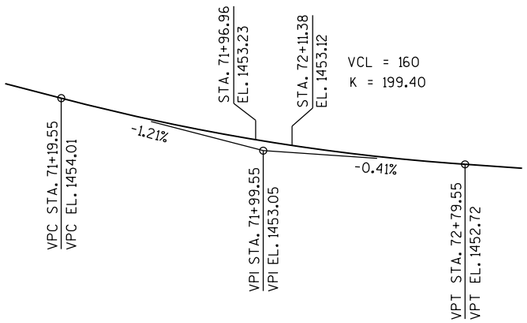
THE CONTRACTOR MAY FURNISH PRECAST CONCRETE BOX CULVERT BARREL SECTIONS, WINGWALLS, HEADERS, AND CUT OFF WALLS IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES MAINTENANCE SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN 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.

⚠ – BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

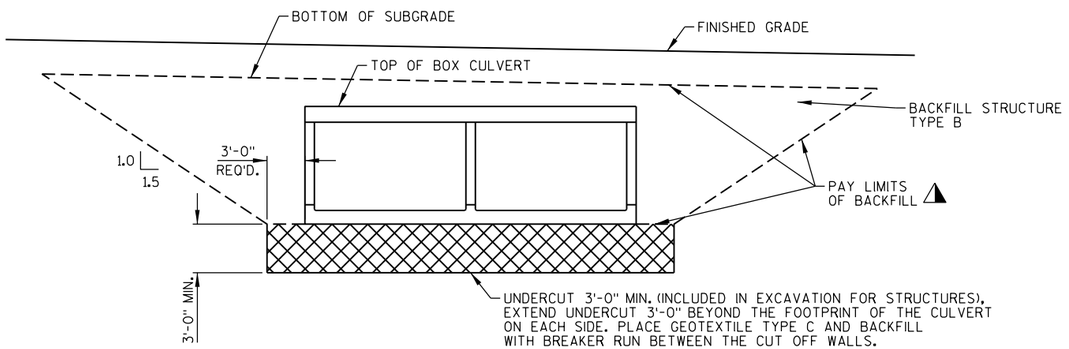
APRONS AND BOTTOM SLAB MAY BE POURED CONTINUOUSLY.

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

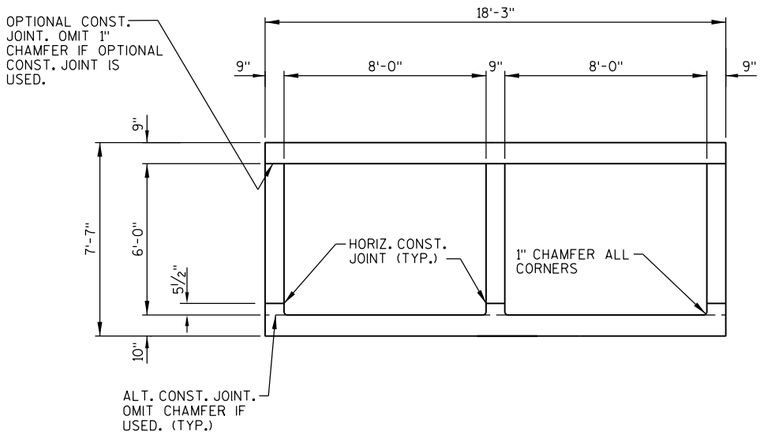
A TEMPORARY WATER DIVERSION SHALL BE PROVIDED DURING CONSTRUCTION OF THE NEW CULVERT. THE TEMPORARY WATER DIVERSION BID ITEM IS DETAILED IN THE SPECIAL PROVISIONS AND PROVIDED IN THE ROADWAY QUANTITIES.



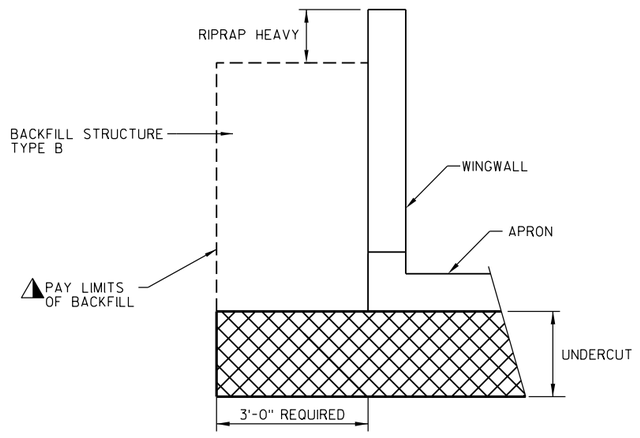
PROFILE GRADE LINE - STH 64



CULVERT BACKFILL STRUCTURE DETAIL



TYPICAL SECTION THRU BOX



WINGWALL BACKFILL DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-60-21

DRAWN BY RLR | PLANS CK'D. DS/JRS

CROSS SECTION, QUANTITIES, NOTES & DETAILS

SHEET 2 OF 6
58

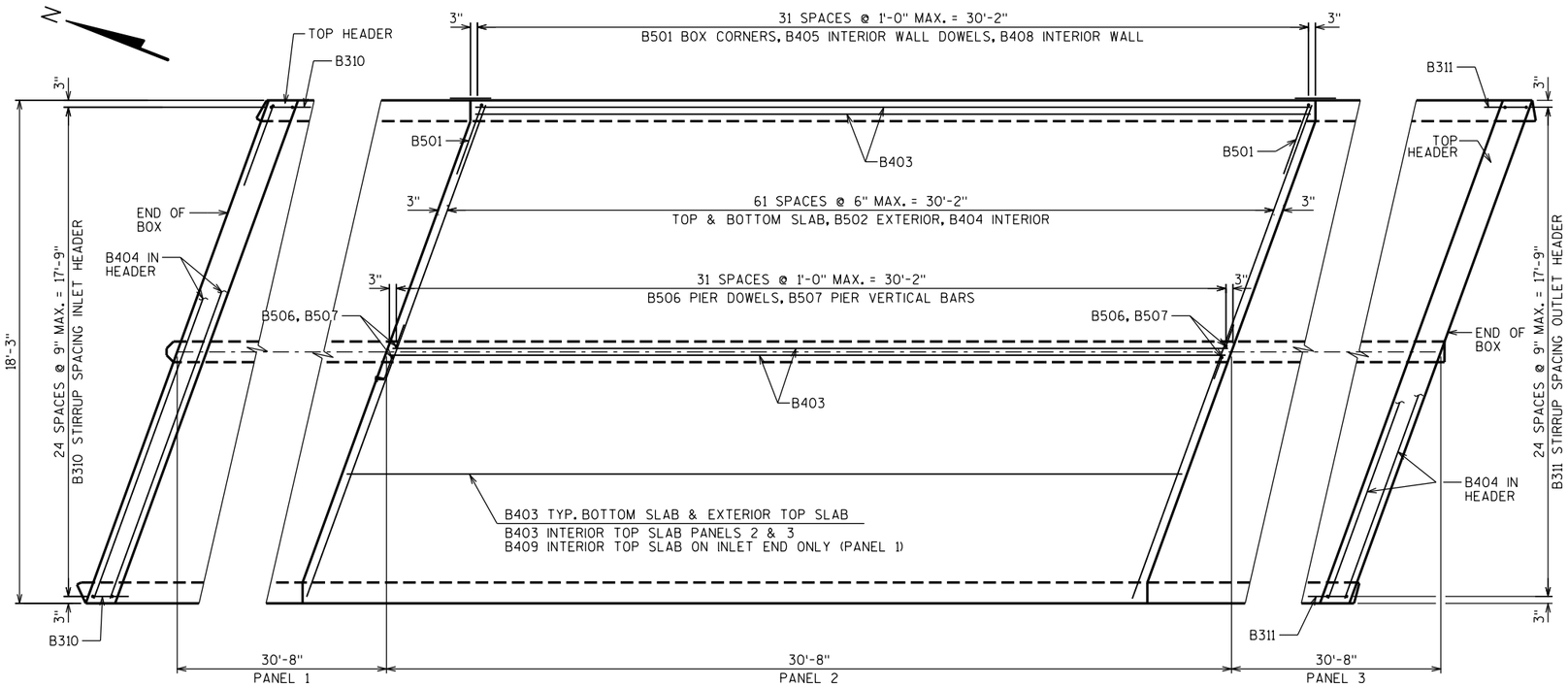
8

8

FILE= 93743_C-60-21_02.dgn

93743_C-60-21_02.dgn 5/31/2024 1:33:15 PM ekazadi

STATE PROJECT NUMBER
9000-00-75



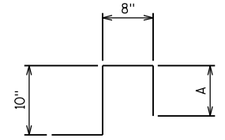
PLAN VIEW OF PANELS

BARSTEEL SPACING FOR PANEL 2 SHOWN
BARSTEEL SPACING FOR PANELS 1 & 3 SIMILAR

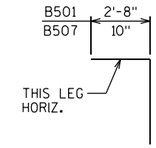
BILL OF BARS — UNCOATED 23,250 LBS.

MARK	NO. REQ'D.	LENGTH	BENT	LOCATION
B501	384	7'-0"	X	BOX CORNERS - TOP & BOTTOM - TRANS.
B502	372	19'-0"		BOX EXTERIOR SLAB - TRANS.
B403	230	30'-4"		BOX BOTTOM SLAB, TOP SLAB & WALLS - LONGIT.
B404	376	19'-0"		BOX INTERIOR SLABS & HEADERS - TRANS.
B405	192	2'-2"		BOX EXTERIOR WALL DOWELS - VERT.
B506	192	2'-5"		BOX INTERIOR WALL DOWELS - VERT.
B507	192	6'-10"	X	BOX INTERIOR WALL - VERT.
B408	192	6'-1"		BOX EXTERIOR WALLS INTERIOR - VERT.
B409	10	30'-0"		BOX INTERIOR TOP SLAB - INLET END - LONGIT.
B310	25	2'-4"	X	BOX INLET HEADER STIRRUPS - VERT.
B311	25	2'-7"	X	BOX OUTLET HEADER STIRRUPS - VERT.
B512	114	4'-0"		BOX VERT. CONST. JOINT DOWELS - HORIZ.

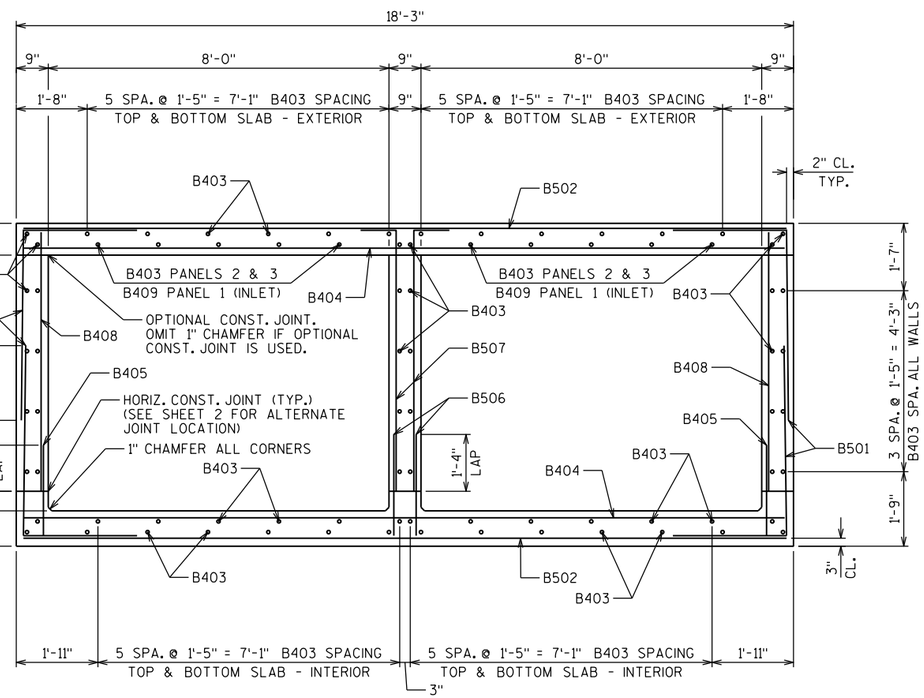
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



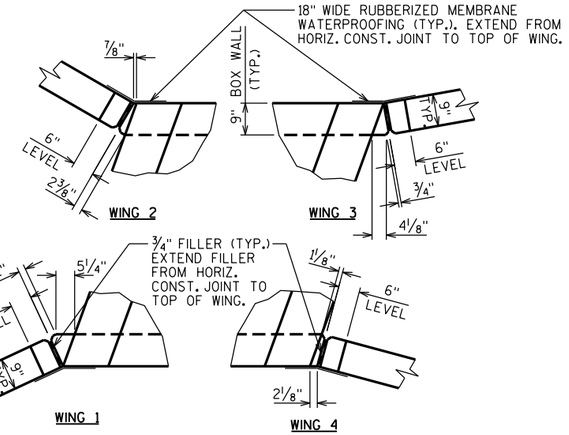
MARK	A
B310	7"
B311	10"



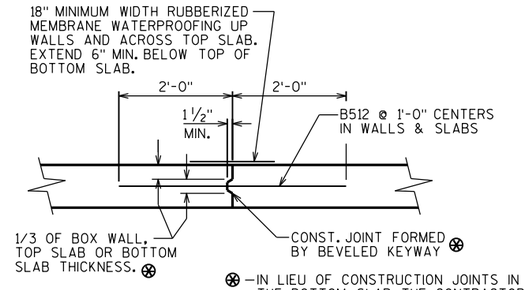
B501, B507



TYPICAL SECTION THRU BOX

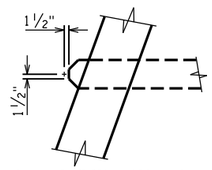


CORNER DETAILS

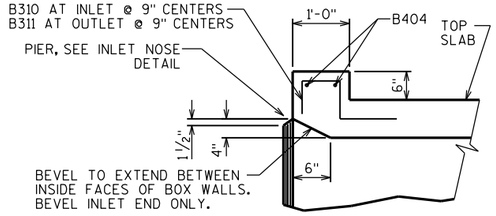


⊛ — IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING. #5 BARS 4'-0" AT 1'-0" CENTERS REQUIRED.

VERTICAL CONSTRUCTION JOINT



INLET NOSE DETAIL



SECTION THRU TOP HEADER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-60-21

DRAWN BY RLR | PLANS CK'D. DS/JRS

BOX CULVERT

SHEET 3 OF 6
59

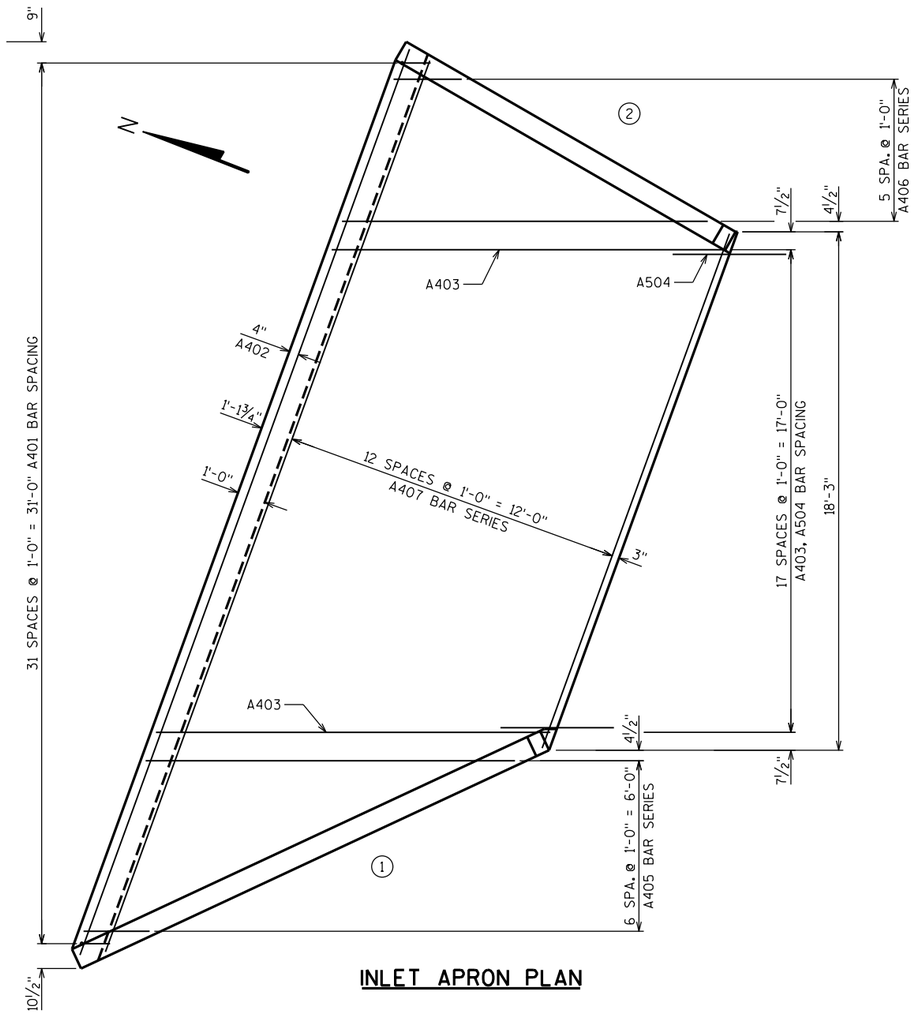
8

8

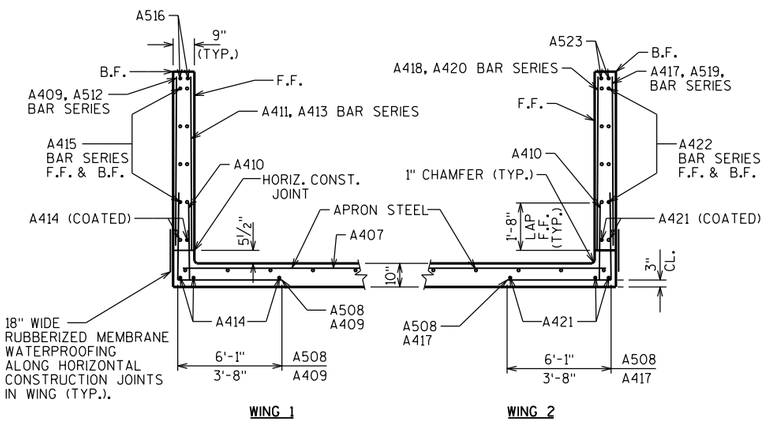
FILE= 93743_C-60-21_03.DGN

93743_C-60-21_03.dgn 5/31/2024 1:44:01 PM ekazadi

STATE PROJECT NUMBER
9000-00-75

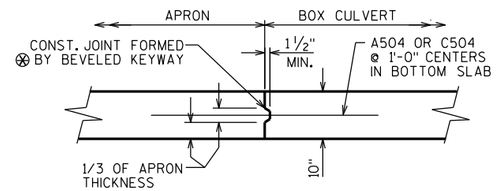


INLET APRON PLAN



SECTION THRU WINGS

(NORMAL TO WINGWALLS)



⊗ – IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING. #5 BARS 4'-0" AT 1'-0" CENTERS REQUIRED.

APRON CONNECTION DETAIL

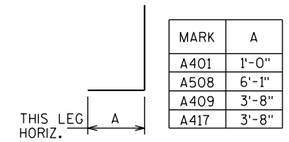
BILL OF BARS

COATED 730 LBS.
UNCOATED 740 LBS.

MARK	NUMBER REQUIRED COATED	NUMBER REQUIRED UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION
A401	-	32	3'-6"	X		INLET APRON CUT OFF WALL - VERT.
A402	-	3	33'-11"			INLET APRON CUT OFF WALL - TRANS.
A403	-	18	13'-10"			INLET APRON - LONGIT.
A504	-	18	4'-0"			INLET APRON CONNECTION DOWELS
A405	-	7	7'-8"		*	INLET APRON @ WING 1 - LONGIT.
A406	-	6	7'-7"		*	INLET APRON @ WING 2 - LONGIT.
A407	-	13	26'-4"		*	INLET APRON - TRANS.
A508	27	-	9'-8"	X		WINGS 1 & 2 - B.F. - VERT.
A409	6	-	6'-8"	X	*	WING 1 - B.F. - END - VERT.
A410	15	-	2'-9"			WINGS 1 & 2 - F.F. DOWELS - VERT.
A411	4	-	3'-0"		*	WING 1 - F.F. DOWELS - END - VERT.
A512	15	-	4'-7"		*	WING 1 - B.F. - VERT.
A413	9	-	4'-6"		*	WING 1 - F.F. - VERT.
A414	2	3	17'-9"			WING 1 & INLET APRON - LONGIT.
A415	8	-	9'-3"		*	WING 1 - F.F & B.F. - LONGIT.
A516	2	-	18'-4"			WING 1 - F.F. & B.F. - TOP - LONGIT.
A417	4	-	6'-7"	X	*	WING 2 - B.F. - END - VERT.
A418	4	-	3'-3"		*	WING 2 - F.F. DOWELS - END - VERT.
A519	12	-	4'-5"		*	WING 2 - B.F. - VERT.
A420	6	-	4'-10"		*	WING 2 - F.F. - VERT.
A421	2	3	12'-11"			WING 2 & INLET APRON - LONGIT.
A422	8	-	6'-9"		*	WING 2 - F.F. & B.F. - LONGIT.
A523	2	-	13'-10"			WING 2 - F.F. & B.F. - TOP - LONGIT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

* - LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.



MARK	A
A401	1'-0"
A508	6'-1"
A409	3'-8"
A417	3'-8"

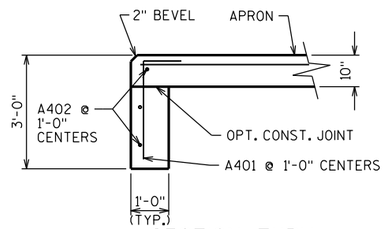
BAR SERIES TABLE

MARK	NO. REQUIRED	LENGTH
A405	1 SERIES OF 7	2'-4" TO 13'-0"
A406	1 SERIES OF 6	2'-4" TO 12'-10"
A407	1 SERIES OF 13	19'-3" TO 33'-4"
A409	1 SERIES OF 6	6'-0" TO 7-4"
A411	1 SERIES OF 4	2'-5" TO 3'-7"
A512	1 SERIES OF 15	3'-0" TO 6'-1"
A413	1 SERIES OF 9	2'-11" TO 6'-1"
A415	2 SERIES OF 4	1'-9" TO 16'-8"
A417	1 SERIES OF 4	6'-0" TO 7'-2"
A418	1 SERIES OF 4	2'-5" TO 4'-1"
A519	1 SERIES OF 12	2'-9" TO 6'-1"
A420	1 SERIES OF 6	3'-6" TO 6'-1"
A422	2 SERIES OF 4	1'-4" TO 12'-2"

BUNDLE AND TAG EACH SERIES SEPARATELY.

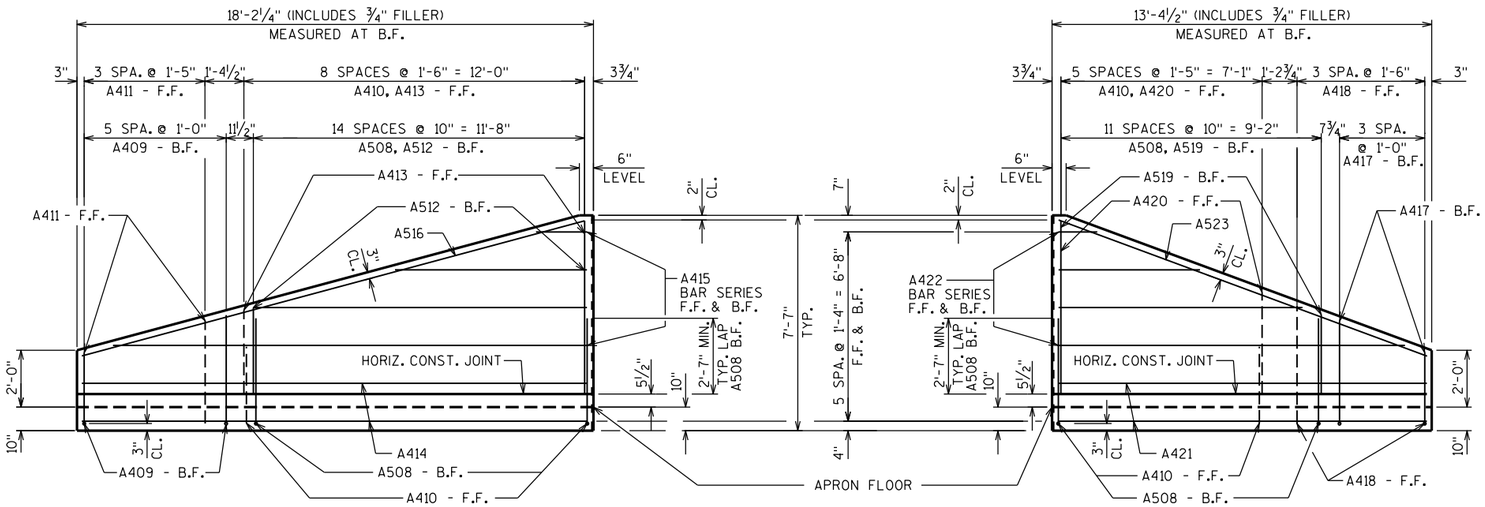
LEGEND

◯ - INDICATES WING NUMBER
F.F.- FRONT FACE
B.F.- BACK FACE
CL. - CLEAR



SECTION THRU INLET CUT OFF WALL

FOR ALTERNATE CUT OFF WALL DETAIL, SEE SHEET 5.



WING 1

INLET WING ELEVATIONS

LOOKING AT B.F. OF WINGS

WING 2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-60-21

DRAWN BY RLR | PLANS CK'D. DS/JRS

INLET APRON & WING DETAILS

SHEET 4 OF 6
60

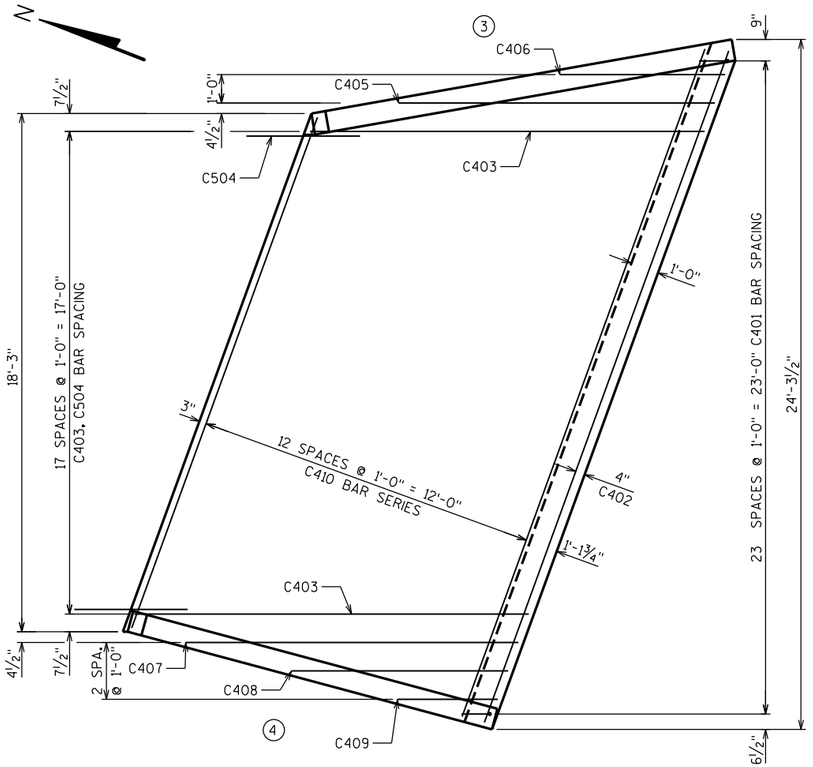
8

8

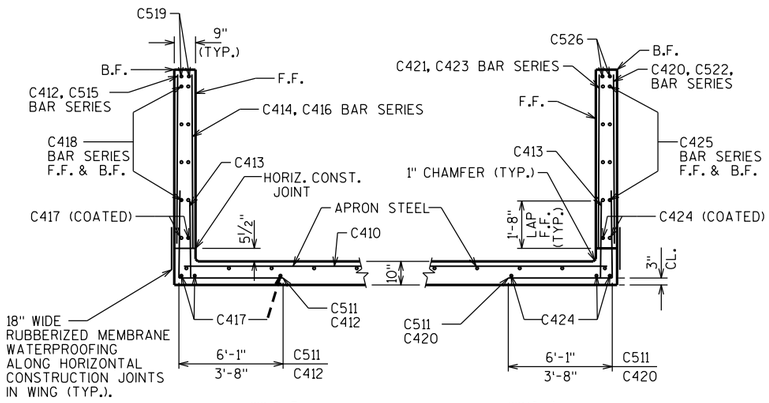
FILE= 93743_C-60-21_04.dgn

93743_C-60-21_04.dgn 5/31/2024 1:46:36 PM ekazadi

STATE PROJECT NUMBER
9000-00-75

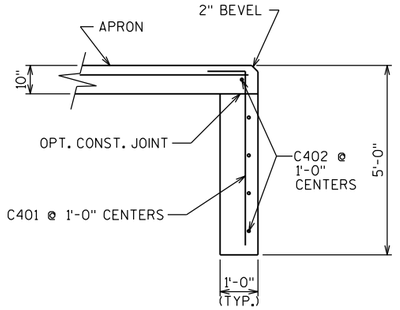


OUTLET APRON PLAN



SECTION THRU WINGS

(NORMAL TO WINGWALLS)



SECTION THRU OUTLET CUT OFF WALL

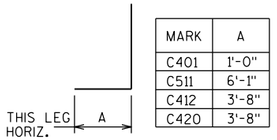
BILL OF BARS

COATED 670 LBS.
UNCOATED 690 LBS.

MARK	NUMBER REQUIRED COATED	NUMBER REQUIRED UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION
C401	-	24	5'-6"	X		OUTLET APRON CUT OFF WALL - VERT.
C402	-	5	25'-2"			OUTLET APRON CUT OFF WALL - TRANS.
C403	-	18	13'-10"			OUTLET APRON - LONGIT.
C504	-	18	4'-0"			OUTLET APRON CONNECTION DOWELS
C405	-	1	11'-1"			OUTLET APRON @ WING 3 - LONGIT.
C406	-	1	5'-9"			OUTLET APRON @ WING 3 - LONGIT.
C407	-	1	11'-9"			OUTLET APRON @ WING 4 - LONGIT.
C408	-	1	7'-7"			OUTLET APRON @ WING 4 - LONGIT.
C409	-	1	3'-6"			OUTLET APRON @ WING 4 - LONGIT.
C410	-	13	22'-1"		*	OUTLET APRON - TRANS.
C511	25	-	9'-8"	X		WINGS 3 & 4 - B.F. - VERT.
C412	5	-	6'-8"	X	*	WING 3 - B.F. - END - VERT.
C413	13	-	2'-9"			WINGS 3 & 4 - F.F. DOWELS - VERT.
C414	4	-	3'-2"		*	WING 3 - F.F. DOWELS - END - VERT.
C515	13	-	4'-6"		*	WING 3 - B.F. - VERT.
C416	7	-	4'-8"		*	WING 3 - F.F. - VERT.
C417	2	3	14'-7"			WING 3 & OUTLET APRON - LONGIT.
C418	8	-	7'-8"		*	WING 3 - F.F & B.F. - LONGIT.
C519	2	-	15'-3"			WING 3 - F.F. & B.F. - TOP - LONGIT.
C420	4	-	6'-8"	X	*	WING 4 - B.F. - END - VERT.
C421	4	-	3'-3"		*	WING 4 - F.F. DOWELS - END - VERT.
C522	12	-	4'-6"		*	WING 4 - B.F. - VERT.
C423	6	-	4'-10"		*	WING 4 - F.F. - VERT.
C424	2	3	12'-10"			WING 4 & OUTLET APRON - LONGIT.
C425	8	-	6'-9"		*	WING 4 - F.F. & B.F. - LONGIT.
C526	2	-	13'-9"			WING 4 - F.F. & B.F. - TOP - LONGIT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

* - LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.



MARK	A
C401	1'-0"
C511	6'-1"
C412	3'-8"
C420	3'-8"

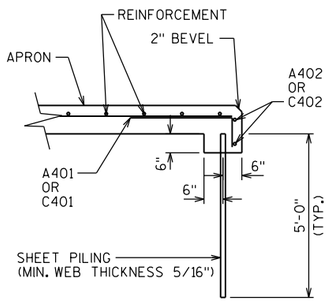
LEGEND

◯ - INDICATES WING NUMBER

F.F.- FRONT FACE

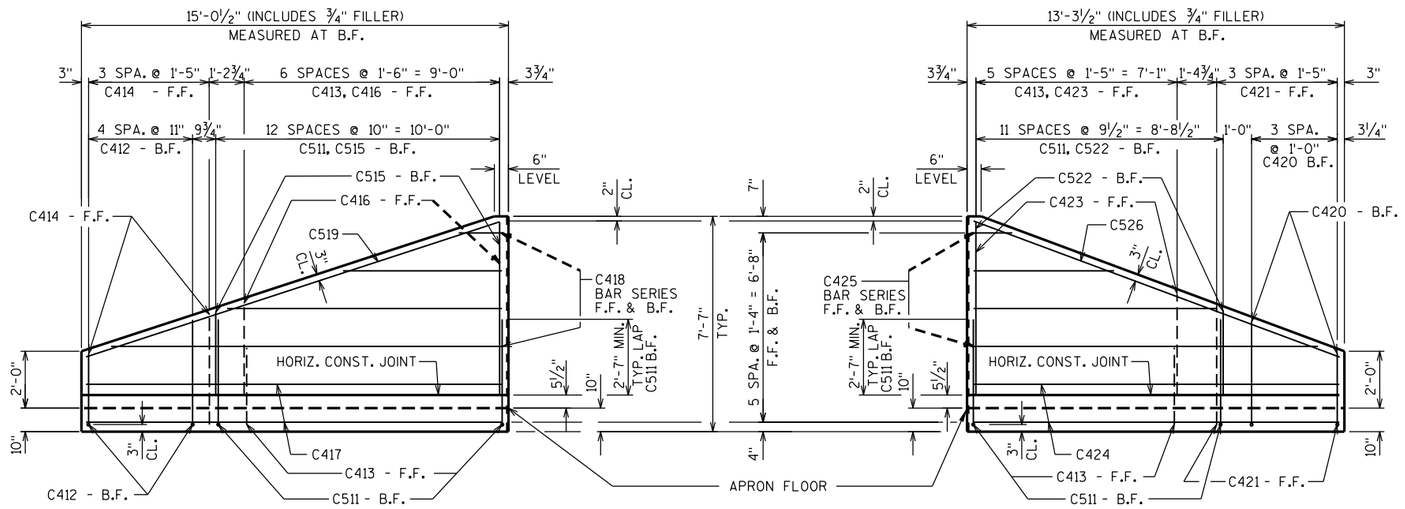
B.F.- BACK FACE

CL. - CLEAR



ALTERNATE CUT OFF WALL

PAYMENT BASED ON CONCRETE CUT OFF WALL.



WING 3 — OUTLET WING ELEVATIONS (LOOKING AT B.F. OF WINGS) — WING 4

BAR SERIES TABLE

MARK	NO. REQUIRED	LENGTH
C410	1 SERIES OF 13	19'-1" TO 25'-0"
C412	1 SERIES OF 5	6'-0" TO 7-3"
C414	1 SERIES OF 4	2'-5" TO 3'-10"
C515	1 SERIES OF 13	2'-10" TO 6'-1"
C416	1 SERIES OF 7	3'-2" TO 6'-1"
C418	2 SERIES OF 4	1'-6" TO 13'-9"
C420	1 SERIES OF 4	6'-1" TO 7'-2"
C421	1 SERIES OF 4	2'-5" TO 4'-1"
C522	1 SERIES OF 12	2'-11" TO 6'-1"
C423	1 SERIES OF 6	3'-6" TO 6'-1"
C425	2 SERIES OF 4	1'-4" TO 12'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-60-21

DRAWN BY RLR | PLANS CK'D. DS/JRS

OUTLET APRON & WING DETAILS

SHEET 5 OF 6
61

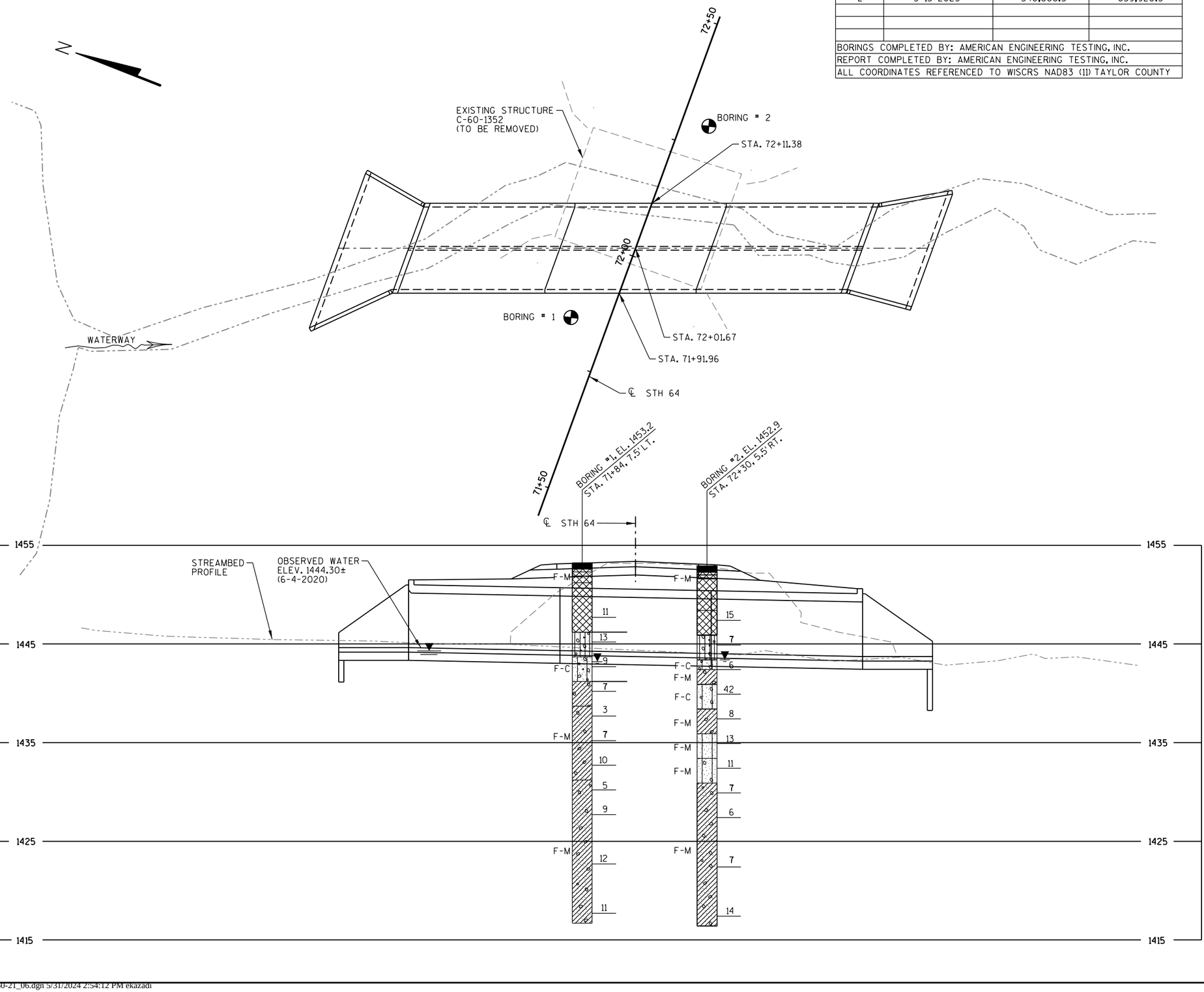
8

8

FILE= 93743_C-60-21_05.dgn

93743_C-60-21_05.dgn 5/31/2024 1:49:07 PM ekazadi

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	3-15-2023	340,618.4	659,874.2
2	3-15-2023	340,606.5	659,920.5
BORINGS COMPLETED BY: AMERICAN ENGINEERING TESTING, INC.			
REPORT COMPLETED BY: AMERICAN ENGINEERING TESTING, INC.			
ALL COORDINATES REFERENCED TO WISCRS NAD83 (11) TAYLOR COUNTY			



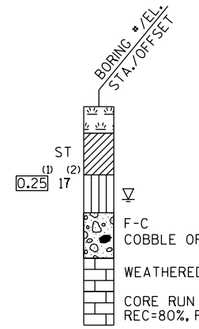
STATE PROJECT NUMBER

9000-00-75

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-60-21

DRAWN BY RLR/EKK | PLANS CK'D. DS/JRS

SUBSURFACE EXPLORATION

SHEET 6 OF 6

62

8

8

FILE= 93743_C-60-21_06.DGN

93743_C-60-21_06.dgn 5/31/2024 2:54:12 PM ekazadi

PROJECT I.D. 9000-00-74 EARTHWORK SUMMARY

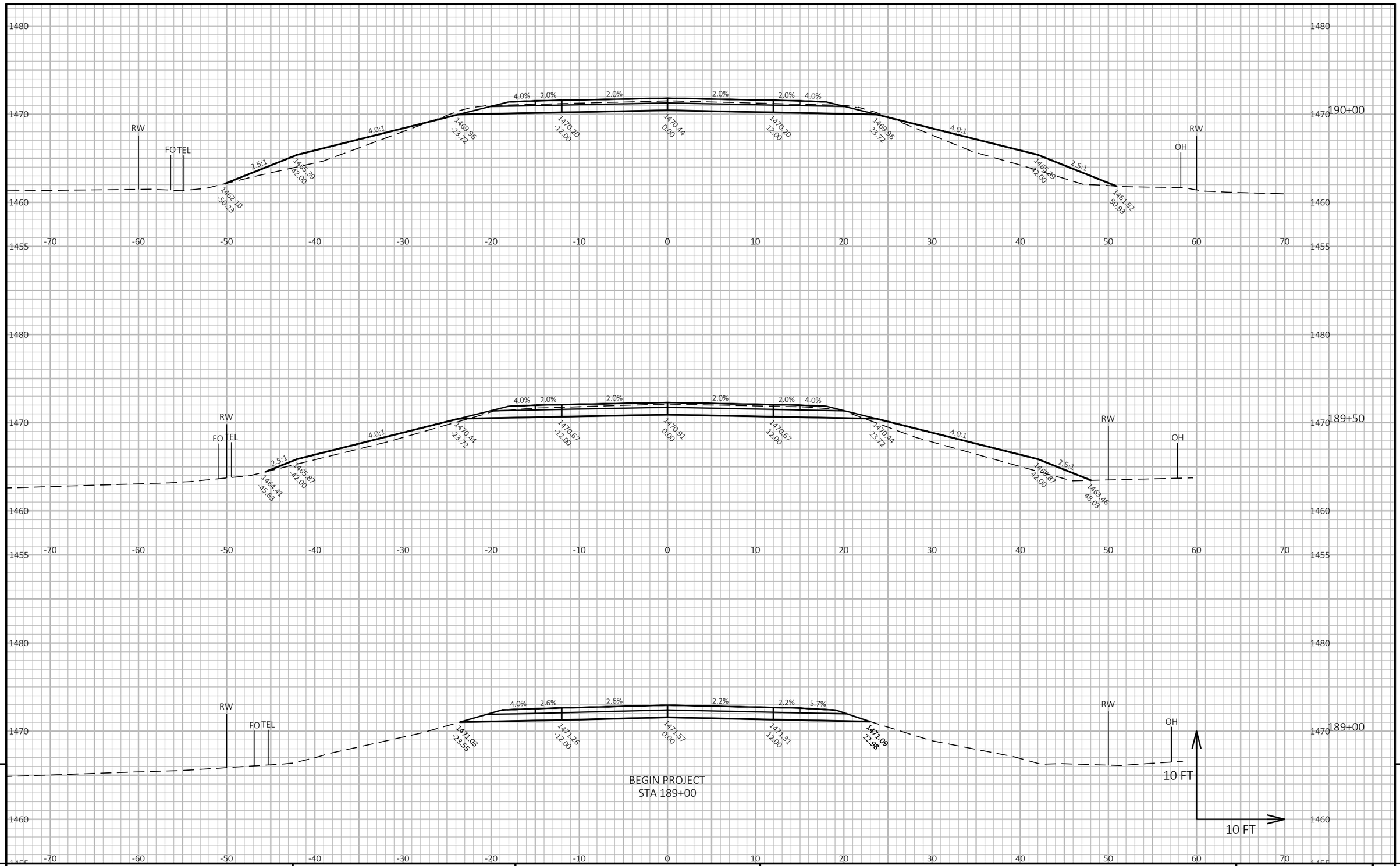
STA	EXCAVATION COMMON CY	EXCAVATION ROCK CY	FILL (1) CY	EXPANDED FILL (2) CY	WASTE CY	BORROW CY
189+00.00						
	95	0	34	44	51	-51
189+50.00						
	86	0	78	101	-15	15
190+00.00						
	79	0	218	283	-204	204
190+50.00						
	35	0	228	296	-261	261
190+75.00						
	35	0	181	235	-200	200
191+00.00						
	87	0	86	112	-25	25
191+50.00						
	98	0	22	29	69	-69
192+00.00						
	50	0	8	10	40	-40
192+25.00						
UNUSABLE PAVEMENT (3)						224
TOTALS	**565**	**0**	**855**	**1110**	**-545**	**769**

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY.
(2) - FILL EXPANSION 30%
(3) - EXISTING ASPAHLTIC SURFACE BASED ON AVE THK OF 3" UPPER LAYER & 5.5" LOWER LAYER PER ASBUILTS.

PROJECT I.D. 9000-00-75 EARTHWORK SUMMARY

STA	EXCAVATION COMMON CY	EXCAVATION ROCK CY	FILL (1) CY	EXPANDED FILL (2) CY	WASTE CY	BORROW CY
71+00.00						
	110	0	8	10	100	-100
71+50.00						
	90	0	109	142	-52	52
71+85.94						
	30	0	155	202	-172	172
72+00.00						
	27	0	301	391	-364	364
72+17.41						
	59	0	310	403	-344	344
72+50.00						
	107	0	17	22	85	-85
73+00.00						
UNUSABLE PAVEMENT (3)						121
TOTALS	**423**	**0**	**900**	**1170**	**-747**	**868**

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY.
(2) - FILL EXPANSION 30%
(3) - EXISTING ASPAHLTIC SURFACE BASED ON AVE THK OF 3" UPPER LAYER & 5.5" LOWER LAYER PER ASBUILTS.

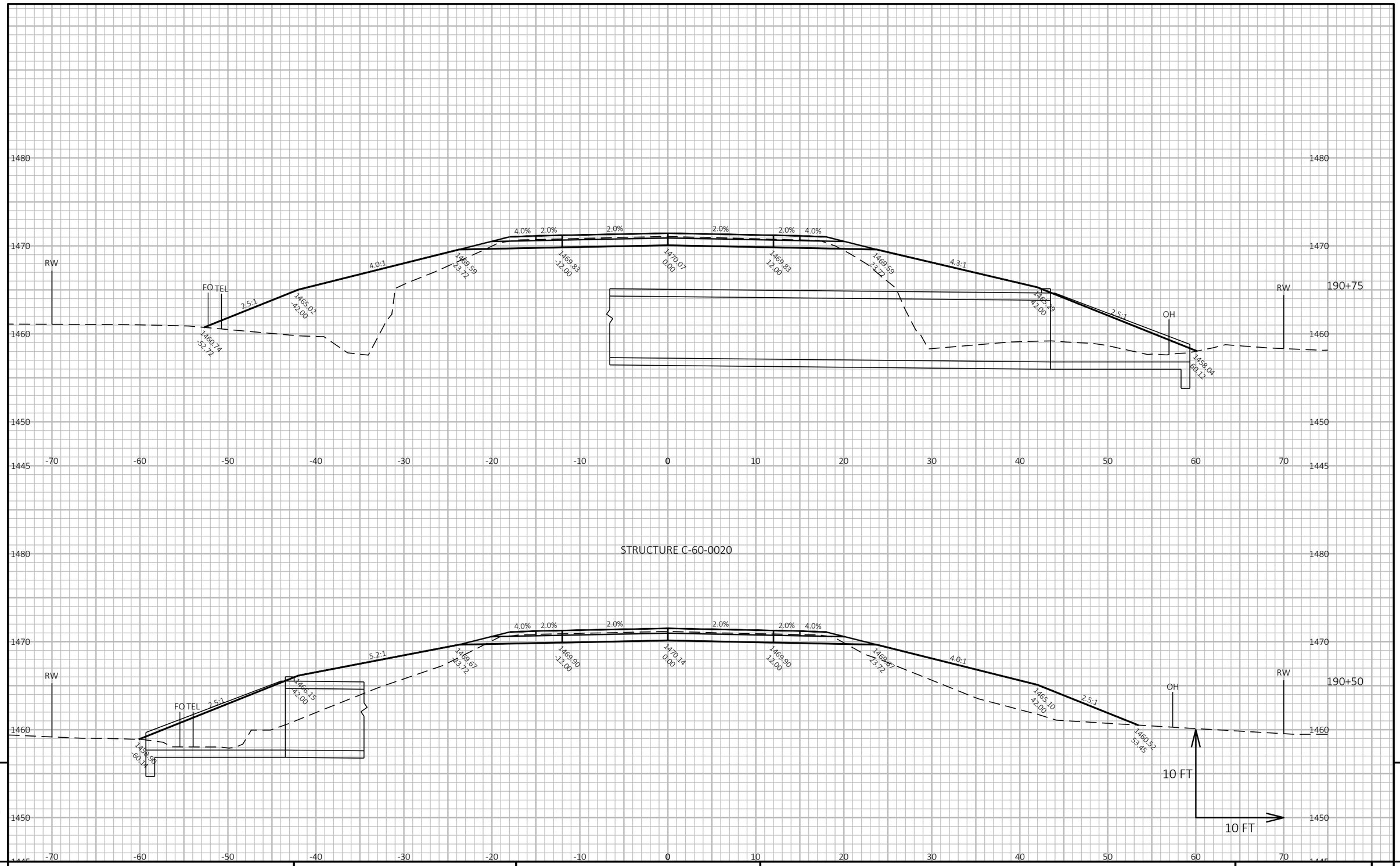


PROJECT NO: 9000-00-74	HWY: STH 64	COUNTY: TAYLOR	CROSS SECTIONS: STH 64	SHEET 64	E

FILE NAME : G:\00\00093\00093742\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 7/15/2024 11:16 AM PLOT BY : CONNOR GIRTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

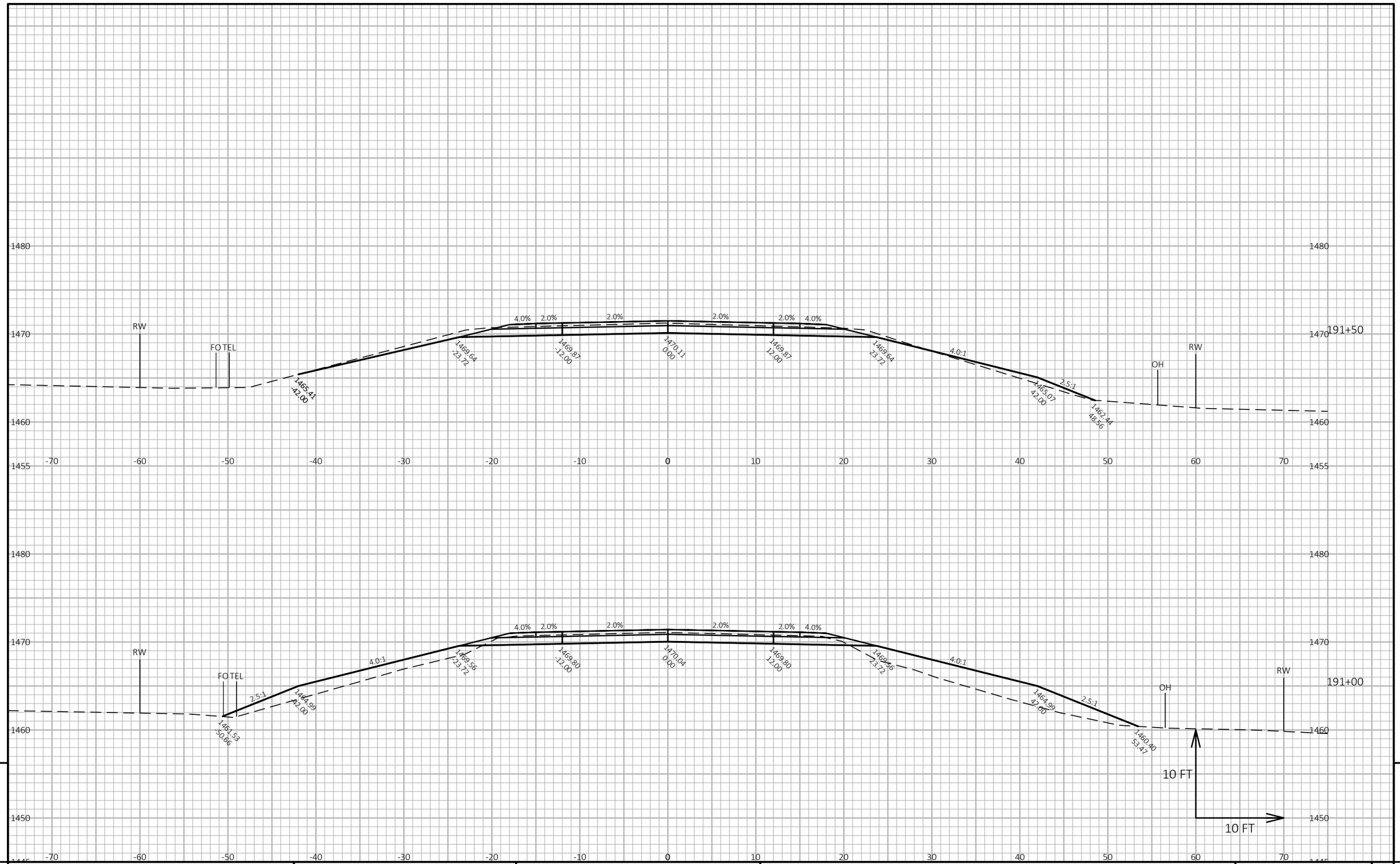


PROJECT NO: 9000-00-74	HWY: STH 64	COUNTY: TAYLOR	CROSS SECTIONS: STH 64	SHEET 65 E

FILE NAME : G:\00\00093\00093742\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 7/15/2024 11:16 AM PLOT BY : CONNOR GIRTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9000-00-74	HWY: STH 64	COUNTY: TAYLOR	CROSS SECTIONS: STH 64	SHEET 66	E

FILE NAME : G:\00\00093\00093742\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090203-xs

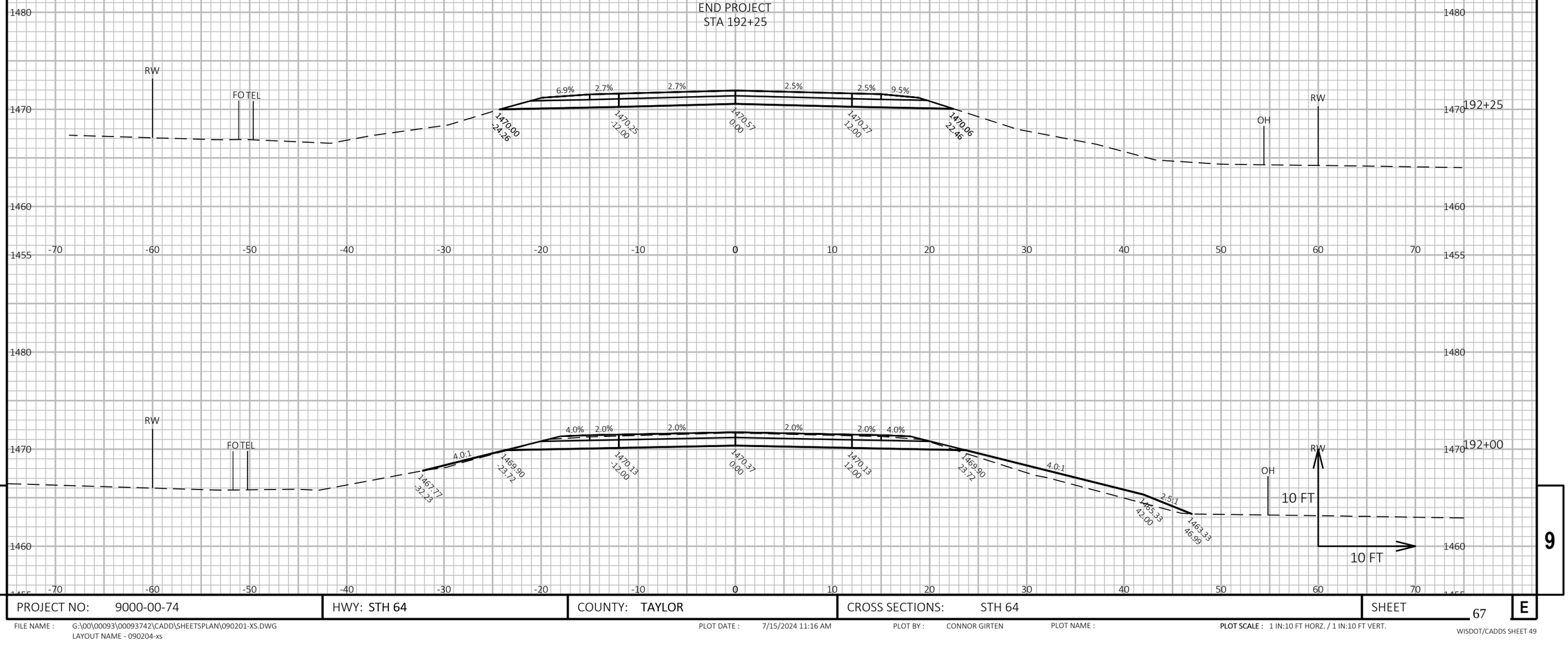
PLOT DATE : 7/15/2024 11:16 AM

PLOT BY : CONNOR GIRTEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49

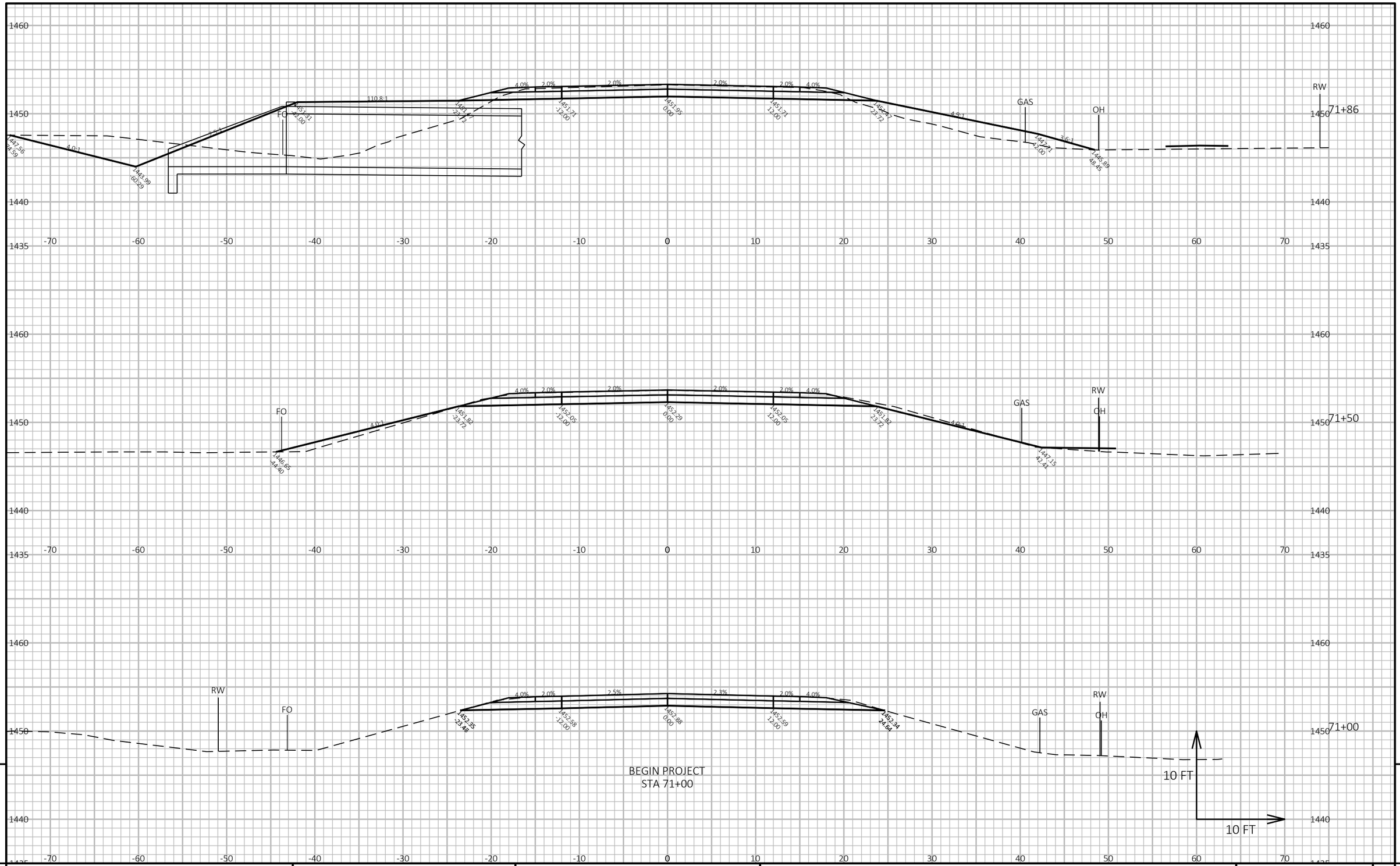


9

PROJECT NO: 9000-00-74	HWY: STH 64	COUNTY: TAYLOR	CROSS SECTIONS: STH 64	SHEET 67	E

FILE NAME : G:\00\00093\00093742\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 7/15/2024 11:16 AM PLOT BY : CONNOR GIRTEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



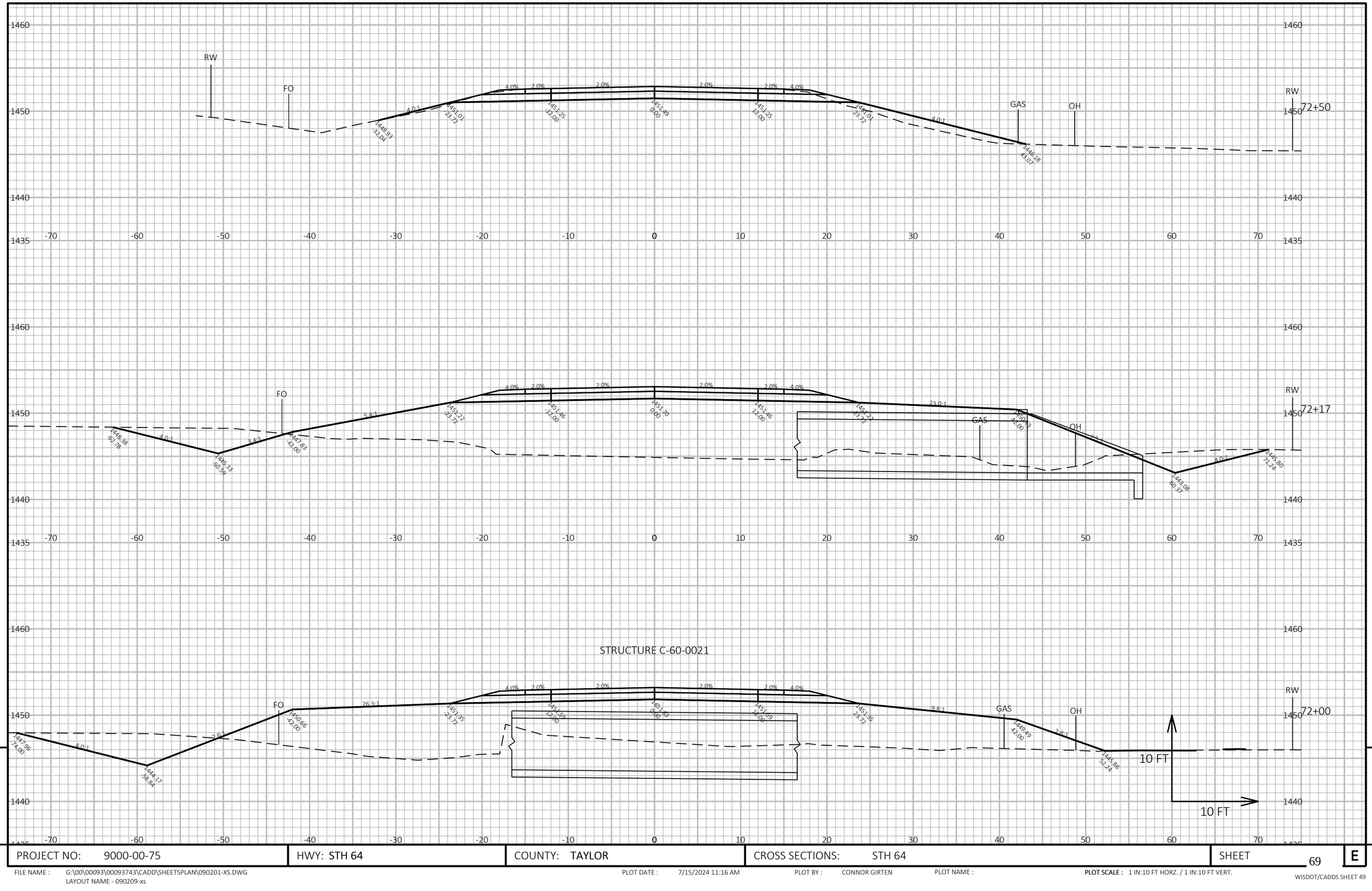
9

9

PROJECT NO: 9000-00-75	HWY: STH 64	COUNTY: TAYLOR	CROSS SECTIONS: STH 64	SHEET 68	E

FILE NAME : G:\00\00093\00093743\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090208-xs

PLOT DATE : 7/15/2024 11:16 AM PLOT BY : CONNOR GIRTEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 9000-00-75	HWY: STH 64	COUNTY: TAYLOR	CROSS SECTIONS: STH 64	SHEET 69	E

FILE NAME : G:\00\00093\00093743\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090209-xs

PLOT DATE : 7/15/2024 11:16 AM

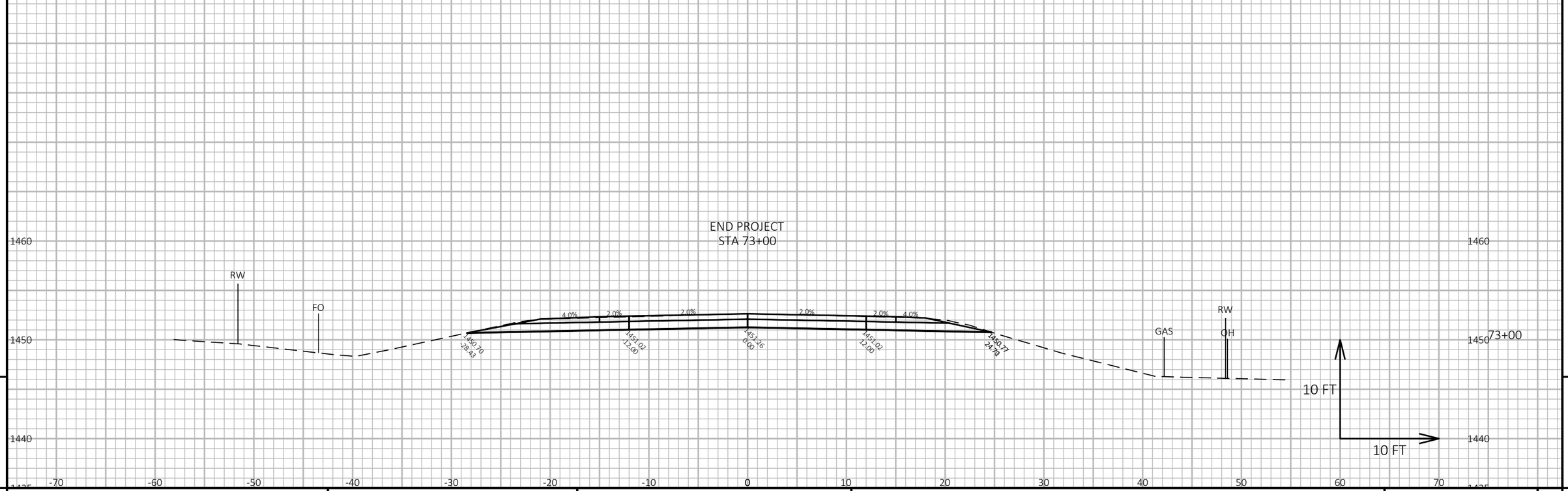
PLOT BY : CONNOR GIRTEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49

END PROJECT
STA 73+00



9

9

PROJECT NO: 9000-00-75	HWY: STH 64	COUNTY: TAYLOR	CROSS SECTIONS: STH 64	SHEET 70	E

FILE NAME : G:\00\00093\00093743\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090210-xs

PLOT DATE : 7/15/2024 11:16 AM PLOT BY : CONNOR GIRTEN PLOT NAME :

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

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov