

LAX MAY 2014

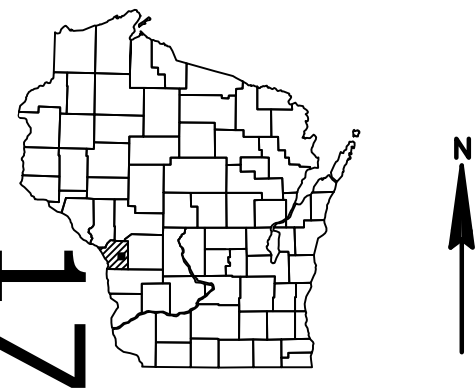
PROJECT ID: 7570-05-61

COUNTY: LA CROSSE

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
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 = 54



DESIGN DESIGNATION

A.A.D.T.	2011	=	6500
A.A.D.T.	2034	=	8200
D.H.V.		=	410
D.D.		=	60/40
T.		=	5.9 %
DESIGN SPEED		=	60 MPH
ESALS		=	

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	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

LA CROSSE - SPARTA

CTH DE AND CTH E INTERSECTIONS

STH 16

LA CROSSE COUNTY

STATE PROJECT NUMBER
7570-05-61

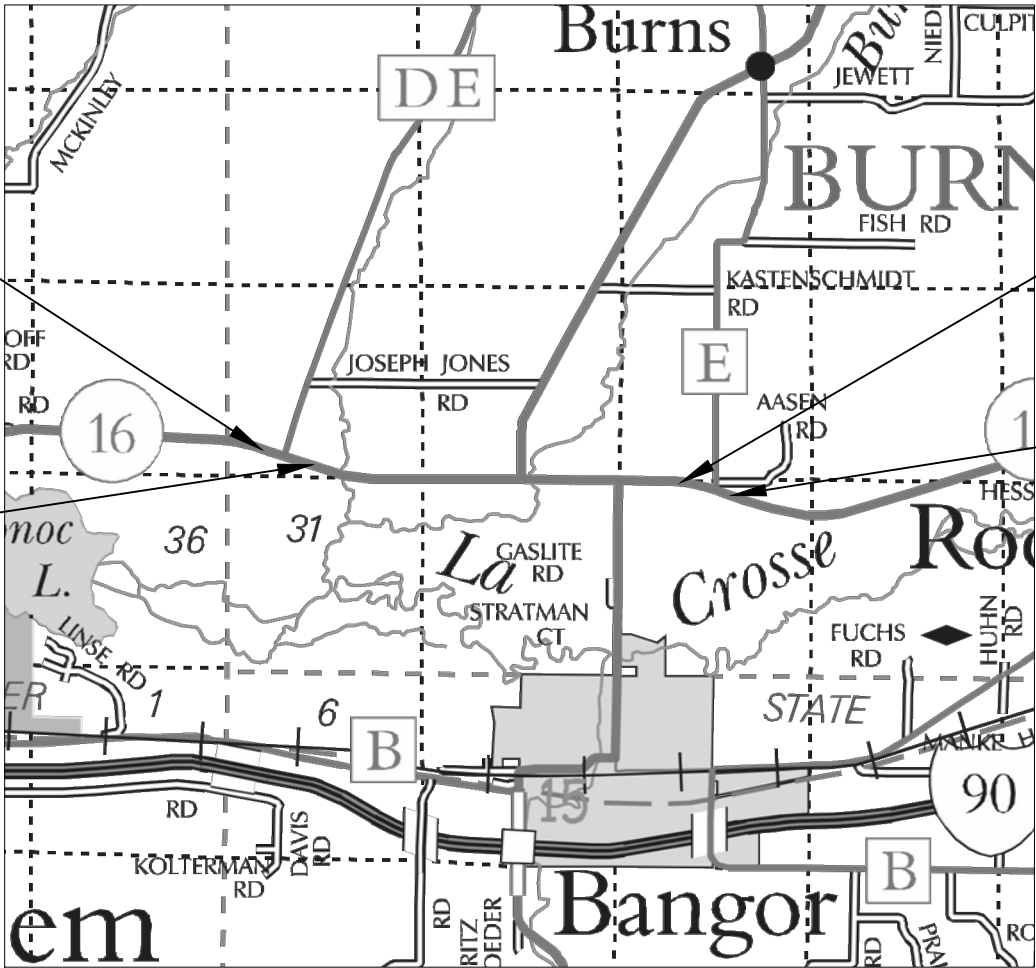
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7570-05-61	WISC 2014192	1

STH 16
BEGIN PROJECT
STA 723+00
X:504483.28
Y:169437.00

STH 16
STA 731+04
X:505249.26
Y:169192.70

STH 16
STA 842+15
X:516289.88
Y:168705.40

STH 16
END PROJECT
STA 849+10
X:516950.08
Y:168488.97



LAYOUT
SCALE 0 0.5 MILES

TOTAL NET LENGTH OF CENTERLINE = 0.284 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, LA CROSSE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	JAY ADAMS RLS, PE
Designer	JAY ADAMS PE
Project Manager	TODD WALDO PE
Regional Examiner	DAN KLEINERTZ PE
Regional Supervisor	REINY YAHNKE PE
APPROVED FOR THE DEPARTMENT	
DATE: 1/16/14	

GENERAL NOTES

- CURVE DATA IS BASED ON ARC DEFINITION.
- COORDINATES SHOWN ON THE PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, LA CROSSE COUNTY, NAD 83 - 2011 ADJUSTMENT.
- LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.
- WHEN PORTIONS OF EXISTING ASPHALTIC SURFACES ARE TO BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION, THE LINE OF SUCH REMOVAL SHALL BE NEATLY DELINEATED WITH A SAW CUT JOINT THROUGH THE ASPHALTIC SURFACE SO THAT REMOVAL OF THE ASPHALT SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
- WHEN THE QUANTITY OF HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OF THE THICKNESS OF THE MATERIAL THAT IS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
- HMA PAVEMENT QUANTITY IS BASED ON THE UNIT DENSITY OF 112LB/SY/IN.
- THE CONTRACTOR'S PAVING OPERATION SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.

UTILITY COMPANIES & PERSONNEL

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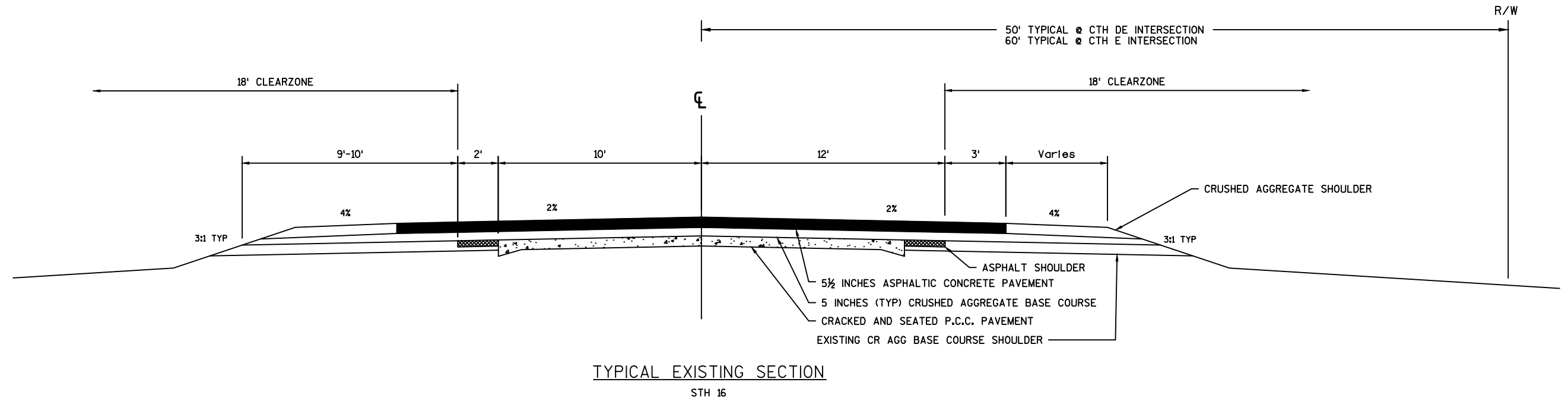
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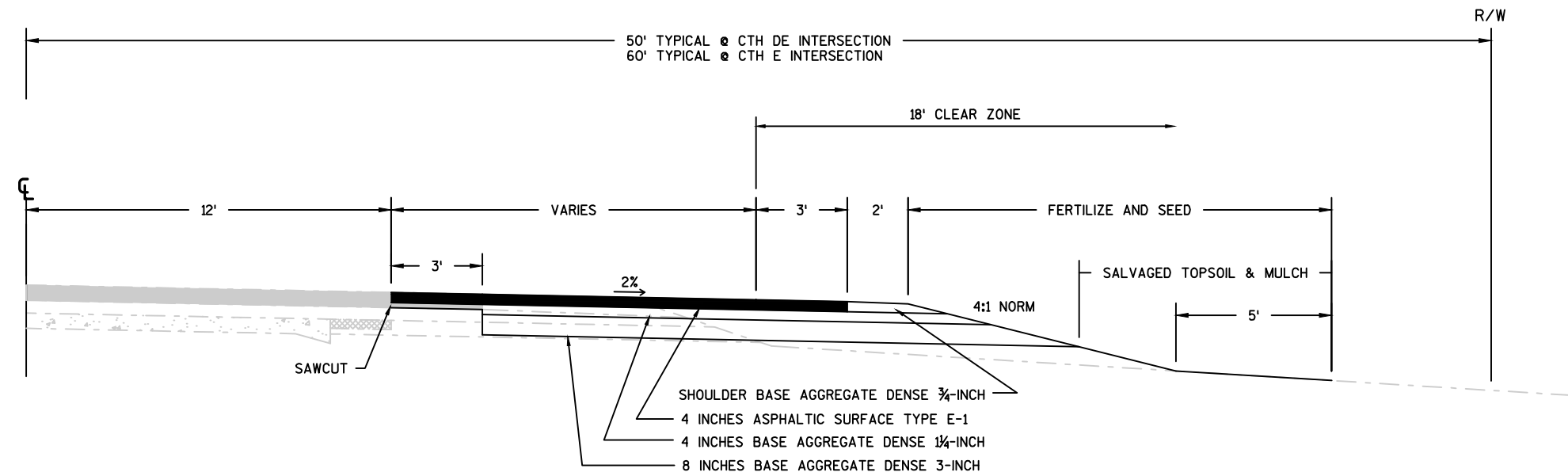
DNR LIASON
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Karen.Kalvelages@wi.gov

STANDARD ABBREVIATIONS

AC.	ACRE	MAX.	MAXIMUM
AGG.	AGGREGATE	MGAL	1000 GALLONS
AH	AHEAD	MIN.	MINIMUM
<	ANGLE	N. C.	NORMAL CROWN OR NO CHANGE
AE, AEW	APRON ENDWALL	N	NORTH
ASPH.	ASPHALTIC	NO.	NUMBER
A. D. T.	AVERAGE DAILY TRAFFIC	PAV' T	PAVEMENT
B. F.	BACK FACE	P. L. E.	PERMANENT LIMITED EASEMENT
BK.	BACK	P. C.	POINT OF CURVATURE
BEG.	BEGIN	P. I.	POINT OF INTERSECTION
B. M	BENCH MARK	P. T.	POINT OF TANGENCY
C/L	CENTER LINE	V. P. C.	VERTICAL POINT OF CURVATURE
D	CENTRAL ANGLE OR DELTA	V. P. I.	VERTICAL POINT OF INTERSECTION
C. M. C. P.	CORRUGATED METAL CULVERT PIPE	V. P. T.	VERTICAL POINT OF TANGENCY
C. M. P.	CORRUGATED METAL PIPE	PCC	PORTLAND CEMENT CONCRETE
CO.	COUNTY	P. E.	PRIVATE ENTRANCE
CTH	COUNTY TRUNK HIGHWAY	P. L.	PROPERTY LINE
CR.	CREEK	R	RADIUS OR RANGE
C. A. B. C.	CRUSHED AGGREGATE BASE COURSE	R/L	REFERENCE LINE
C. Y.	CUBIC YARD	R. C. C. P.	REINFORCED CONCRETE CULVERT PIPE
C. P.	CULVERT PIPE	RT	RIGHT
C. & G.	CURB AND GUTTER	REQ' D	REQUIRED
D	DEGREE OF CURVE	R. H. F.	RIGHT HAND FORWARD
D. H. V.	DESIGN HOUR VOLUME	R/W	RIGHT OF WAY
DIA.	DIAMETER	R.	RIVER
DISCH.	DISCHARGE	RD.	ROAD
EA	EACH	SHLD.	SHOULDER(S)
E	EAST	SHR.	SHRINKAGE
ELEC.	ELECTRIC(AL), ELEC. CABLE	S	SOUTH
EL. , ELEV.	ELEVATION	S. F.	SQUARE FOOT (FEET)
EXC.	EXCAVATION	SDD	STANDARD DETAIL DRAWING(S)
F. F.	FACE TO FACE	STH	STATE TRUNK HIGHWAY
FERT.	FERTILIZER	STA.	STATION
F. E.	FIELD ENTRANCE	S. E.	SUPERELEVATION
F/L, F. L.	FLOW LINE	S/L	SURVEY LINE
CWT.	HUNDRED WEIGHT	T	TANGENT
INL	INLET	TEL.	TELEPHONE
INTER.	INTERSECTION	TEMP.	TEMPORARY
JT.	JOINT	T. L. E.	TEMPORARY LIMITED EASEMENT
LT	LEFT	T. O. C.	TOP OF CURB
L. H. F.	LEFT HAND FORWARD	T.	(TRUCKS) PERCENT OF
L.	LENGTH OF CURVE	TYP.	TYPICAL
L. F.	LINEAR FOOT(FEET)	UNCL.	UNCLASSIFIED
LC.	LONG CHORD	U. G.	UNDERGROUND (CABLE)
LS	LUMP SUM	V. C.	VERTICAL CURVE
M. P.	MARKER POST	W	WEST

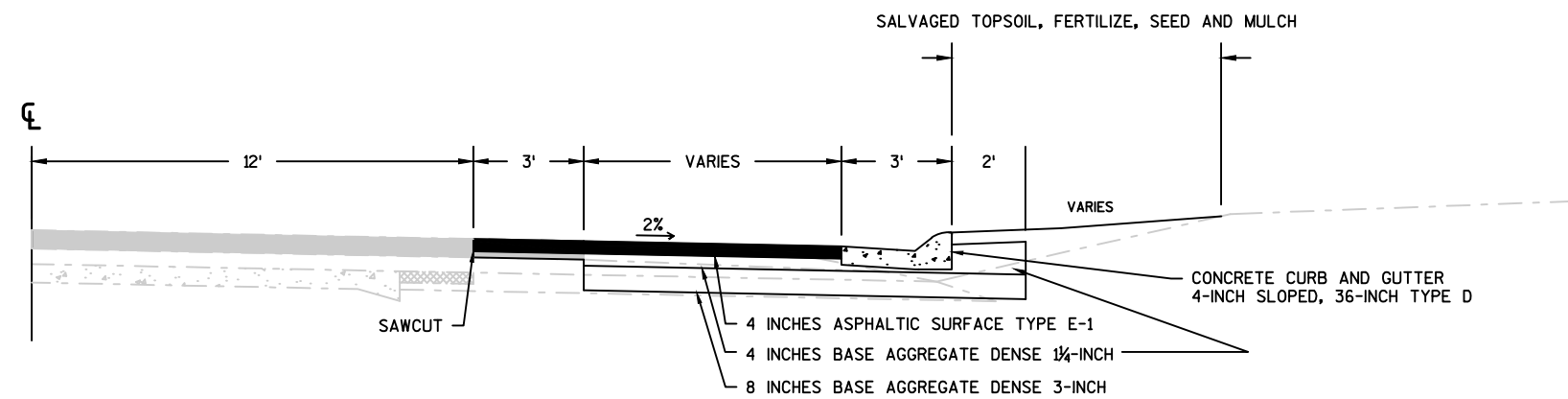






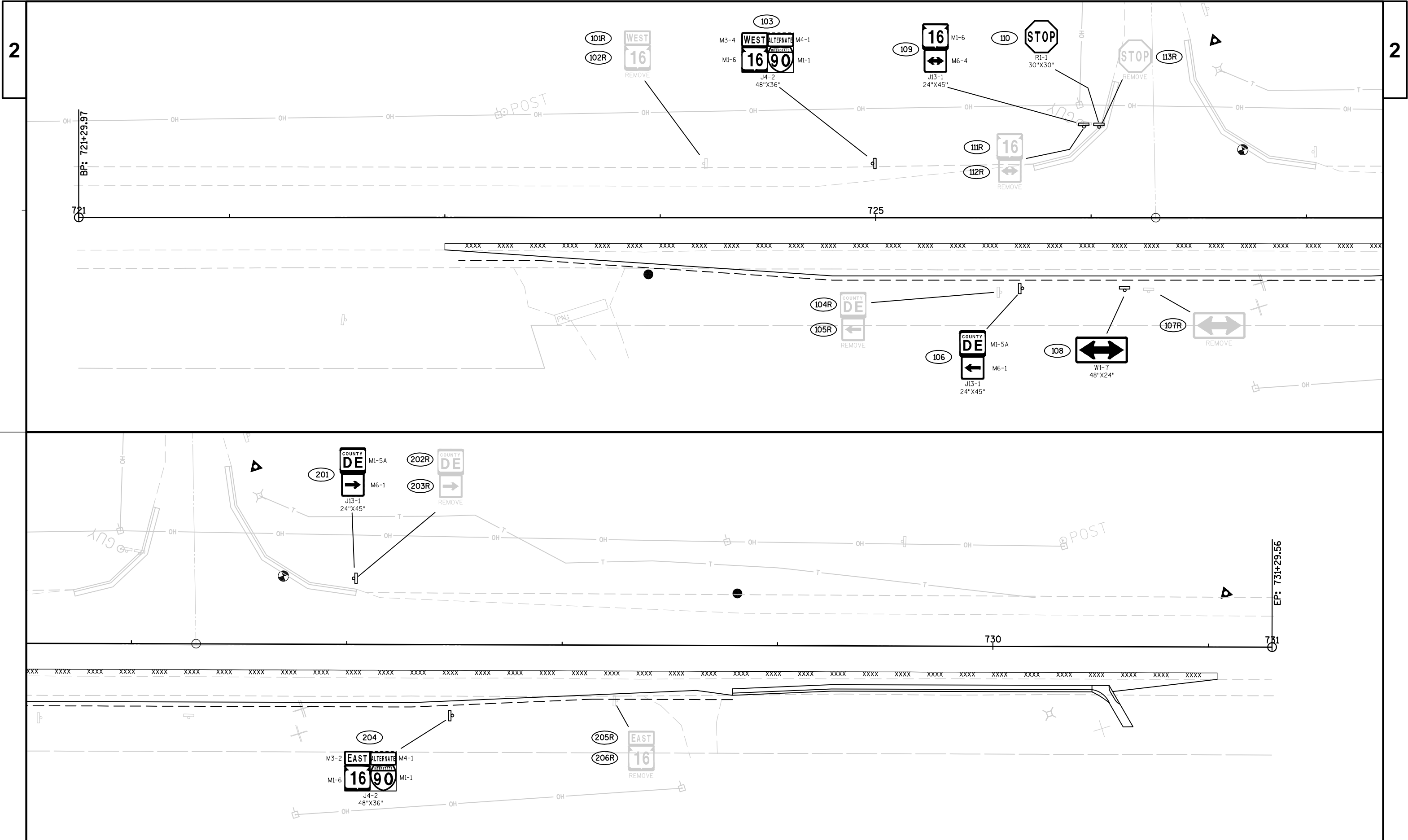
TYPICAL FINISHED SECTION

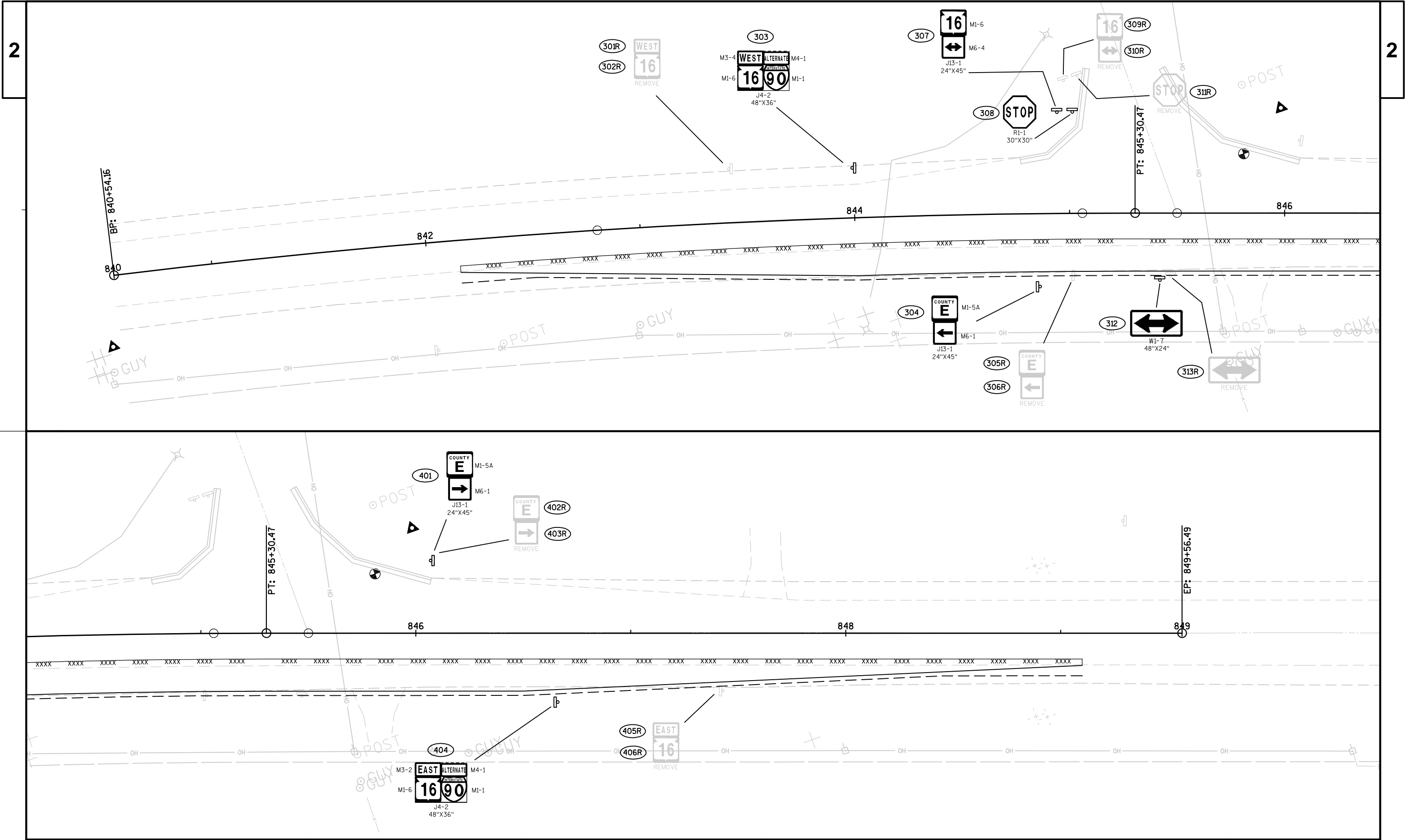
STH 16 BYPASS LANE
STA: 723+00 TO 728+79
STA: 730+46 TO 731+04
STA: 842+15 TO 849+10



TYPICAL FINISHED SECTION

STH 16 CURB SECTION AT CTH DE
STA: 728+79 TO 730+46





PROJECT NO:7570-05-61	HWY: STH 16	COUNTY: LA CROSSE	PERMANENT SIGNING	SHEET	E
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DATE 11MAR14		E S T I M A T E O F Q U A N T I T I E S			
LINE				7570-05-61	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	204.0110	REMOVING ASPHALTIC SURFACE	SY	501.000	501.000
0020	205.0100	EXCAVATION COMMON **P**	CY	815.000	815.000
0030	213.0100	FINISHING ROADWAY (PROJECT) 01. 7570-05-61	EACH	1.000	1.000
0040	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	120.000	120.000
0050	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	400.000	400.000
0060	305.0130	BASE AGGREGATE DENSE 3-INCH	TON	875.000	875.000
0070	416.1010	CONCRETE SURFACE DRAINS	CY	1.250	1.250
0080	455.0605	TACK COAT	GAL	50.000	50.000
0090	465.0105	ASPHALTIC SURFACE	TON	455.000	455.000
0100	601.0553	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	LF	167.000	167.000
0110	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 7570-05-61	EACH	1.000	1.000
0120	619.1000	MOBILIZATION	EACH	1.000	1.000
0130	625.0100	TOPSOIL	SY	200.000	200.000
0140	625.0500	SALVAGED TOPSOIL	SY	1,694.000	1,694.000
0150	627.0200	MULCHING	SY	1,893.000	1,893.000
0160	628.1504	SILT FENCE	LF	1,500.000	1,500.000
0170	628.1520	SILT FENCE MAINTENANCE	LF	1,500.000	1,500.000
0180	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	2.000	2.000
0190	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1.000	1.000
0200	628.2023	EROSION MAT CLASS II TYPE B	SY	45.000	45.000
0210	629.0210	FERTILIZER TYPE B	CWT	2.000	2.000
0220	630.0110	SEEDING MIXTURE NO. 10	LB	21.000	21.000
0230	630.0140	SEEDING MIXTURE NO. 40	LB	15.000	15.000
0240	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	8.000	8.000
0250	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	6.000	6.000
0260	637.2210	SIGNS TYPE II REFLECTIVE H	SF	103.000	103.000
0270	637.2230	SIGNS TYPE II REFLECTIVE F	SF	16.000	16.000
0280	638.2602	REMOVING SIGNS TYPE II	EACH	14.000	14.000
0290	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	14.000	14.000
0300	642.5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0310	643.0100	TRAFFIC CONTROL (PROJECT) 01. 7570-05-61	EACH	1.000	1.000
0320	643.0300	TRAFFIC CONTROL DRUMS	DAY	610.000	610.000
0330	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	610.000	610.000
0340	643.0900	TRAFFIC CONTROL SIGNS	DAY	420.000	420.000
0350	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	6,422.000	6,422.000
0360	649.0300	TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH	LF	1,700.000	1,700.000
0370	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	1,495.000	1,495.000
0380	650.5000	CONSTRUCTION STAKING BASE	LF	1,495.000	1,495.000
0390	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	167.000	167.000
0400	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 7570-05-61	LS	1.000	1.000
0410	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	1,495.000	1,495.000
0420	690.0150	SAWING ASPHALT	LF	1,507.000	1,507.000

3

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	TO	STATION	LOCATION	204. 0110 SY	REMARKS
0010	723+00	-	731+04	RT	268	
0010	842+25	-	849+25	RT	233	
TOTAL 0010					501	

EXCAVATION COMMON

CATEGORY	STATION	TO	STATION	LOCATION	205. 0100 CY	REMARKS
0010	723+00	-	731+04	RT	396	PAY PLAN QTY
0010	842+15	-	849+10	RT	389	PAY PLAN QTY
0010	847+70			LT	30	REMOVE FE - PAY PLAN QTY
TOTAL 0010					815	

3

BASE AGGREGATE

				BASE AGGREGATE DENSE 3/4- INCH 305. 0110	BASE AGGREGATE DENSE 1 1/4- INCH 305. 0120	BASE AGGREGATE DENSE 3- INCH 305. 0130	REMARKS
CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	
0010	723+00	-	731+04	RT	60	205	435
0010	842+25	-	849+25	RT	60	195	440
TOTAL 0010					120	400	875

CONCRETE SURFACE DRAINS

CATEGORY	STATION	TO	STATION	LOCATION	416. 1010 CY	REMARKS
0010	730+40			RT	1. 25	
TOTAL 0010					1. 25	

ASPHALTIC SURFACE

					TACK COAT 455. 0605	ASPHALTIC SURFACE 465. 0105	REMARKS
CATEGORY	STATION	TO	STATION	LOCATION	GAL	TON	
0010	723+00	-	731+00	RT	26	235	
0010	842+25	-	849+25	RT	24	220	
TOTAL 0010					50	455	

3

3

CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D

CATEGORY	STATION TO	STATION	LOCATION	601.0553 LF	REMARKS
0010	728+79 -	730+46	RT	167	
TOTAL 0010				167	

TRAFFIC CONTROL DRUMS

CATEGORY	STATION	TO	STATION	LOCATION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	REMARKS
0010	723+00	-	731+04	RT	325	325	RIGHT OF EDGE LINE @ 50' SPACING
0010	842+15	-	849+10	RT	285	285	RIGHT OF EDGE LINE @ 50' SPACING
TOTAL 0010					610	610	

STAKING

CATEGORY	STATION	TO	STATION	LOCATION	CONSTRUCTION STAKING SUBGRADE 650.4500 LF	CONSTRUCTION STAKING BASE 650.5000 LF	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER 650.5500 LF	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (7570-05-61) 650.9910 LS	CONSTRUCTION STAKING SLOPE STAKES 650.9920 LF	REMARKS
0010	723+00	-	731+00		800	800	-	-	800	
0010	728+75	-	730+40		-	-	167	-	-	
0010	842+15	-	849+10		695	695	-	-	695	
0010				PROJECT	-	-	-	1	-	
TOTAL 0010					1495	1495	167	1	1495	

SEEDING

CATEGORY	STATION	TO	STATION	LOCATION	TOPSOIL 625.0100 SY	SALVAGED TOPSOIL 625.0500 SY	MULCHING 627.0200 SY	EROSION MAT CLASS II TYPE B 628.2023 SY	FERTILIZER TYPE B 629.0210 CWT	SEEDING MIX #10 630.0110 LB	SEEDING MIX #40 630.0140 LB	REMARKS
0010	723+00	-	725+25	RT	-	123	123	-	0.12	-	3.5	
0010	725+25	-	728+00	RT	-	246	246	-	0.24	5.1	-	
0010	728+00	-	731+00	RT	-	505	505	-	0.34	-	9.7	
0010	842+15	-	849+10	RT	-	760	760	-	0.63	13.6	-	
0010	847+65			LT	-	60	60	-	0.04	0.8	-	REMOVED FE
0010				UNDISTRIBUTED	200	-	200		0.20	2.0	1.5	
0010	730+50			RT	-	-	-	45	-	-	-	
TOTAL 0010					200	1694	1893	45	2	21	15	

PAVEMENT MARKING EPOXY 4-INCH

646. 0106						REMARKS
CATEGORY	STATION TO	STATION	LOCATION	LF		
0010	723+00 -	731+00	LT + RT	1660		WHITE EDGELINE 50' BEYOND LIMITS
0010	723+00 -	731+00	RT	63		12. 5' DASHED
0010	723+00 -	731+00	CL	1660		DOUBLE YELLOW 50' BEYOND LIMITS
0010	842+15 -	849+10	LT + RT	1488		WHITE EDGELINE 50' BEYOND LIMITS
0010	842+15 -	849+10	RT	63		12. 5' DASHED
0010	842+15 -	849+10	CL	1488		DOUBLE YELLOW 50' BEYOND LIMITS
TOTAL 0010				6422		

TRAFFIC CONTROL

TRAFFIC CONTROL (PROJECT) 643. 0100						TRAFFIC CONTROL SIGNS 643. 0900		REMARKS
CATEGORY	STATION	TO	STATION	LOCATION	EACH	DAY		
0010	723+00	-	731+04		0. 5	210		
0010	842+15	-	849+10		0. 5	210		
TOTAL 0010					1. 0	420		

EROSION CONTROL

SILT FENCE 628. 1504						SILT FENCE MAINTENANCE 628. 1520		MOBI LIZATI ONS EROSI ON CONTROL 628. 1905		MOBI LIZATI ONS EMERGENCY EROSI ON CONTROL 628. 1910		REMARKS
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF		EACH		EACH		
0010	723+00	-	731+04	RT	800	800						
0010	842+15	-	849+10	RT	700	700						
0010				PROJECT				2		1		
TOTAL 0010					1500	1500		2		1		

SAWING ASPHALT

690. 0150						REMARKS
CATEGORY	STATION TO	STATION	LOCATION	LF		
0010	723+00 -	731+00	RT	806		
0010	842+15 -	849+10	RT	701		
TOTAL 0010				1507		

TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH

649. 0300						REMARKS
CATEGORY	STATION	TO	STATION	LOCATION	LF	
0010	723+00	-	731+04	RT	900	EDGELINE
0010	842+15	-	849+10	RT	800	EDGELINE
TOTAL 0010					1700	

3

SIGNING																
CATEGORY	SIGN NO.	STATION	DIR.	LOCATION	SIGN CODE	SIZE	DESCRIPTION	MESSAGE LINE 1	MESSAGE LINE 2	POSTS WOOD	POSTS WOOD	SIGNS TYPE	SIGNS TYPE	REMOVING	REMOVING	REMARKS
										4X6- INCH X 14- FT	4X6- INCH X 16- FT	II REFLECTIVE H	II REFLECTIVE F	SIGNS TYPE II	SMALL SIGN SUPPORTS	
										634. 0614	634. 0616	637. 2210	637. 2230	638. 2602	638. 3000	
										EACH	EACH	SF	SF	EACH	EACH	
0010	101R	724+21	WB	LT	M3- 4	24" X 12"	WEST Cardinal Route Marker			-	-	-	-	1	1	
0010	102R	724+21	WB	LT	M1- 6	24" X 24"	State Route Marker	[16]		-	-	-	-	-	-	Same Post as 101R
0010	103	725+00	WB	LT	J4- 2	48" X 36"	ssurance Assembly (2 Headed Route Par [WEST]	[ALTERNATE]	[16] [90]	-	1	12. 00	-	-	-	
0010	104R	725+57	EB	RT	M1- 5A	24" X 24"	County Marker	[DE]		-	-	-	-	1	1	
0010	105R	725+57	EB	RT	M6- 1	21" X 21"	Arrow - LEFT, RIGHT, or AHEAD	[LA]		-	-	-	-	-	-	Same Post as 104R
0010	106	725+65	EB	RT	J13- 1	24" X 45"	Directional without Cardinal	[DE]	[LA]	-	1	7. 50	-	-	-	
0010	107R	726+27	EB	X- RD	W1- 7	48" X 24"	Night Arrow (Double)			-	-	-	-	1	1	
0010	108	726+15	EB	X- RD	W1- 7	48" X 24"	Night Arrow (Double)			1	-	-	8. 00	-	-	
0010	109	725+98	WB	X- RD	J13- 1	24" X 45"	Directional without Cardinal	[16]	[DBA]	1	-	7. 50	-	-	-	
0010	110	726+04	WB	X- RD	R1- 1	30" X 30"	Stop			1	-	5. 18	-	-	-	
0010	111R	725+98	WB	X- RD	M1- 6	24" X 24"	State Route Marker	[16]		-	-	-	-	1	1	
0010	112R	725+98	WB	X- RD	M6- 4	21" X 21"	Directional Arrow Left - Right	[DBA]		-	-	-	-	-	-	Same Post as 111R
0010	113R	726+04	WB	X- RD	R1- 1	30" X 30"	Stop			-	-	-	-	1	1	
0010	201	727+05	WB	LT	J13- 1	24" X 45"	Directional without Cardinal	[DE]	RA	1	-	7. 50	-	-	-	
0010	202R	727+05	WB	LT	M1- 5A	24" X 24"	County Marker	[DE]		-	-	-	-	1	1	
0010	203R	727+05	WB	LT	M6- 1	21" X 21"	Arrow - LEFT, RIGHT, or AHEAD	[RA]		-	-	-	-	-	-	Same Post as 202R
0010	204	727+50	EB	RT	J4- 2	48" X 36"	ssurance Assembly (2 Headed Route Par [EAST]	[ALTERNATE]	[16] [90]	-	1	12. 00	-	-	-	
0010	205R	728+23	EB	RT	M3- 2	24" X 12"	EAST Cardinal Route Marker			-	-	-	-	1	1	
0010	206R	728+23	EB	RT	M1- 6	24" X 24"	State Route Marker	[16]		-	-	-	-	-	-	Same Post as 205R
0010	301R	843+45	WB	LT	M3- 4	24" X 12"	WEST Cardinal Route Marker			-	-	-	-	1	1	
0010	302R	843+45	WB	LT	M1- 6	24" X 24"	State Route Marker	[16]		-	-	-	-	-	-	Same Post as 301R
0010	303	844+01	WB	LT	J4- 2	48" X 36"	ssurance Assembly (2 Headed Route Par [WEST]	[ALTERNATE]	[16] [90]	-	1	12. 00	-	-	-	
0010	304	844+84	EB	RT	J13- 1	24" X 45"	Directional without Cardinal	[E]	[LA]	-	1	7. 50	-	-	-	
0010	305R	845+00	EB	RT	M1- 5A	24" X 24"	County Marker	[E]		-	-	-	-	1	1	
0010	306R	845+00	EB	RT	M6- 1	21" X 21"	Arrow - LEFT, RIGHT, or AHEAD	[LA]		-	-	-	-	-	-	Same Post as 305R
0010	307	844+94	WB	X- RD	J13- 1	24" X 45"	Directional without Cardinal	[16]	[DBA]	1	-	7. 50	-	-	-	
0010	308	845+01	WB	X- RD	R1- 1	30" X 30"	Stop			1	-	5. 18	-	-	-	
0010	309R	844+97	WB	X- RD	M1- 6	24" X 24"	State Route Marker	[16]		-	-	-	-	1	1	
0010	310R	844+97	WB	X- RD	M6- 4	21" X 21"	Directional Arrow Left - Right	[DBA]		-	-	-	-	-	-	Same Post as 309R
0010	311R	845+04	WB	X- RD	R1- 1	30" X 30"	Stop			-	-	-	-	1	1	
0010	312	845+42	WB	X- RD	W1- 7	48" X 24"	Night Arrow (Double)			1	-	-	8. 00	-	-	
0010	313R	845+47	WB	X- RD	W1- 7	48" X 24"	Night Arrow (Double)			-	-	-	-	1	1	
0010	401	846+08	WB	LT	J13- 1	24" X 45"	Directional without Cardinal	[E]	[RA]	1	-	7. 50	-	-	-	
0010	402R	846+08	WB	LT	M1- 5A	24" X 24"	County Marker	[E]		-	-	-	-	1	1	
0010	403R	846+08	WB	LT	M6- 1	21" X 21"	Arrow - LEFT, RIGHT, or AHEAD	[RA]		-	-	-	-	-	-	Same Post as 402R
0010	404	846+64	EB	RT	J4- 2	48" X 36"	ssurance Assembly (2 Headed Route Par [EAST]	[ALTERNATE]	[16] [90]	-	1	12. 00	-	-	-	
0010	405R	847+40	EB	RT	M3- 2	24" X 12"	EAST Cardinal Route Marker			-	-	-	-	1	1	
0010	406R	847+40	EB	RT	M1- 6	24" X 24"	State Route Marker	[16]		-	-	-	-	-	-	Same Post as 405R
TOTAL 0010										8	6	103	16. 00	14	14	

3

3

Division	From/To Station	Location	Common Excavation (item # 205.0100)		Salvaged/Unusable Pavement Material (4)	Available Material (5)	Marsh Excavation (6)	Rock Excavation (7)	Reduced Marsh in Fill (8)	Reduced EBS in Fill (9)	Expanded Marsh Backfill (10)	Expanded EBS Backfill (11)	Expanded Rock (12)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow	Comment:
			Cut (2)	EBS Excavation (3)			(item #205.0500)	(item #205.0200)	Factor	Factor	Factor	Factor	Factor		Factor 1.25				
Division 1																			
	723+00 TO 731+04	CTH DE	396		0										83	+	313	(item #208.0100)	
Division 1 Subtotal			396	0	0	0	0	0	0	0	0	0	0	0	83	0	313	0	
Division 2																			
		CTH E	389												77		312		
Division 2 Subtotal			389	0	0	0	0	0	0	0	0	0	0	0	77	0	312	0	
Grand Total			785.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00	0.00	625.00	0.00	
Total Common Exc			785.00																

3

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut - Salvaged/Unusuable Pavement Material
- 6) Marsh Excavation - to be backfilled with Select Borrow Material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well. Item number 20505
- 7) Rock Excavation item number 205.0200
- 8) Reduced Marsh in Fill - Excavated Marsh material is usable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
- 9) Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
- 10) Expanded Marsh Backfill - This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item number 208.1100
- 11) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
- 12) Expanded Rock - Factor = 1.1
- 13) Expanded Fill. Factor = 1.25
- Depending on selections:
- Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor

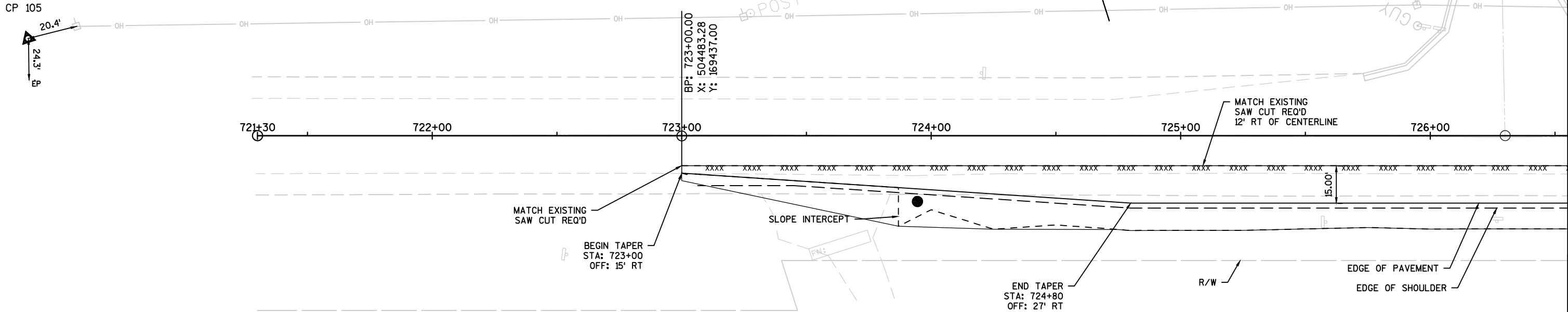
Or

Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor

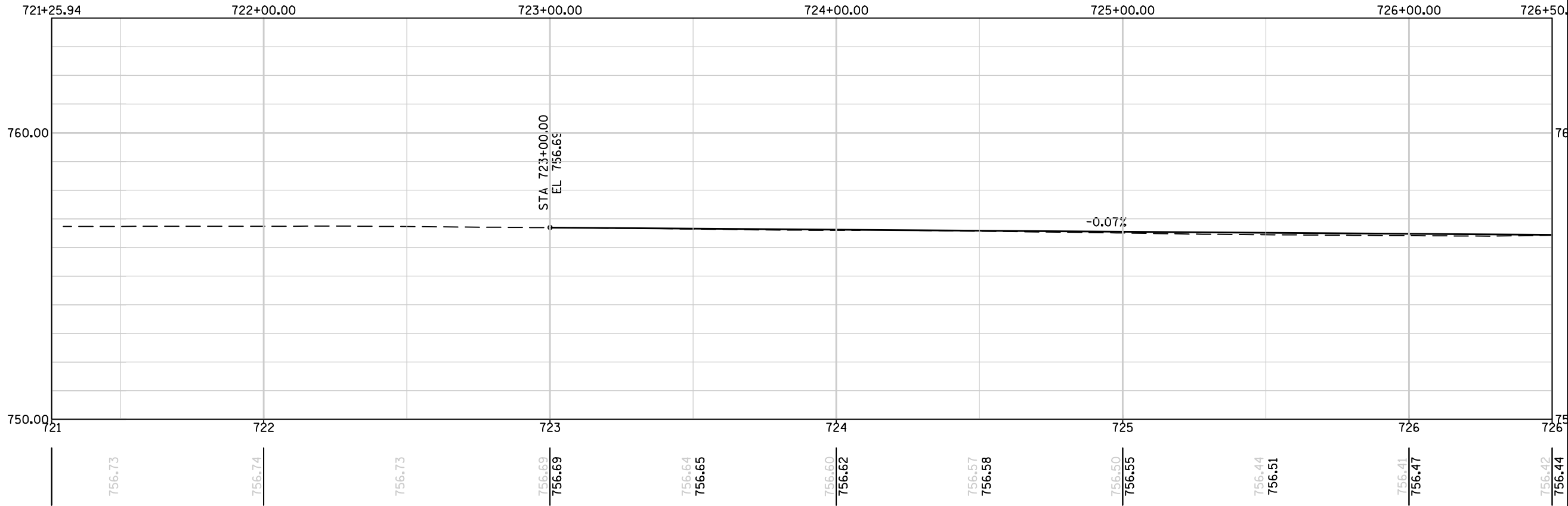
Or

Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor
- 14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

PT #	X	Y	Z	DESCRIPTION
CP 105	504848.74	169406.80	753.86	¾" BAR

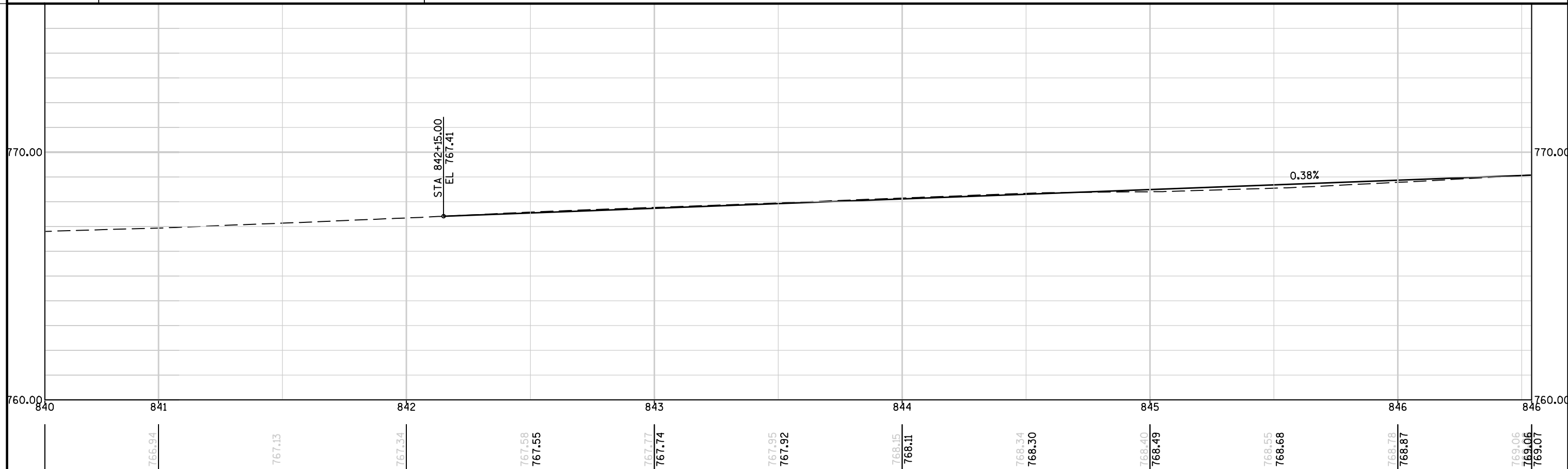
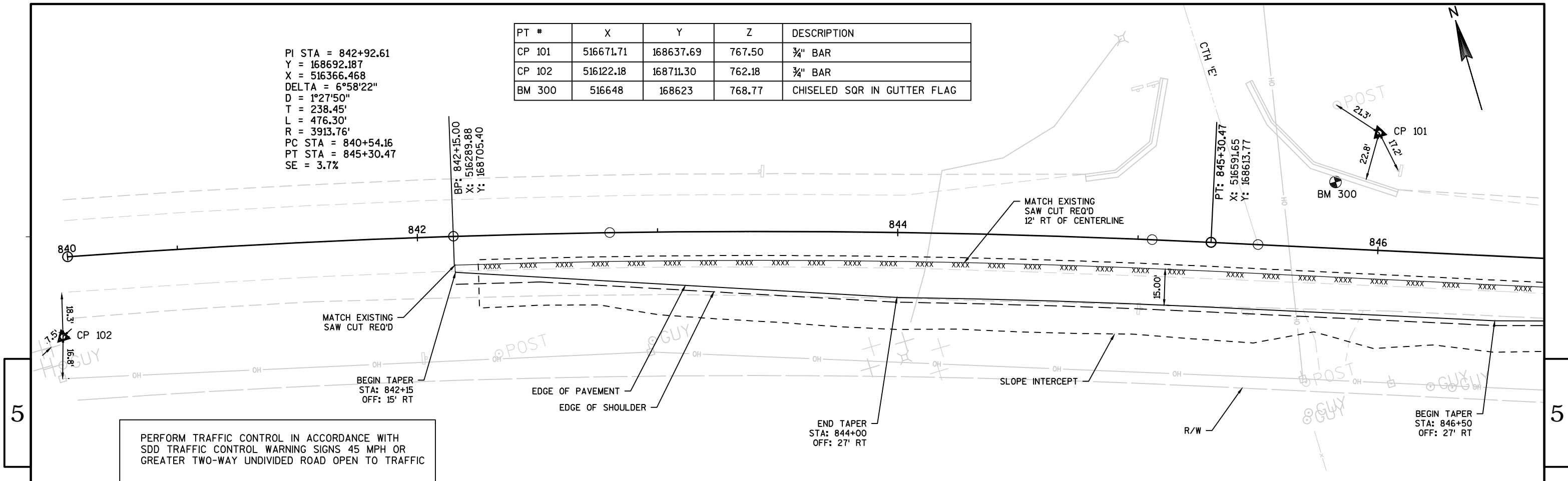


PERFORM TRAFFIC CONTROL IN ACCORDANCE WITH
SDD TRAFFIC CONTROL WARNING SIGNS 45 MPH OR
GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

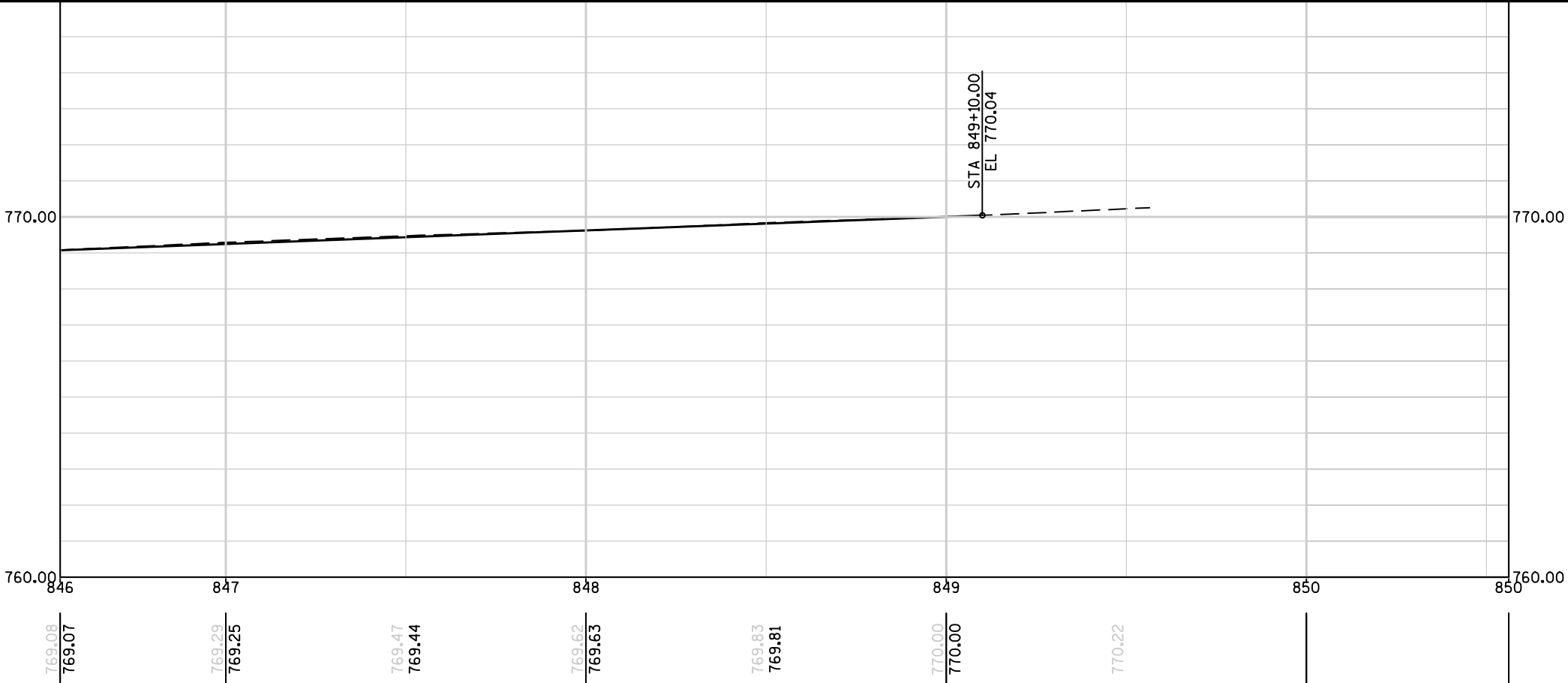
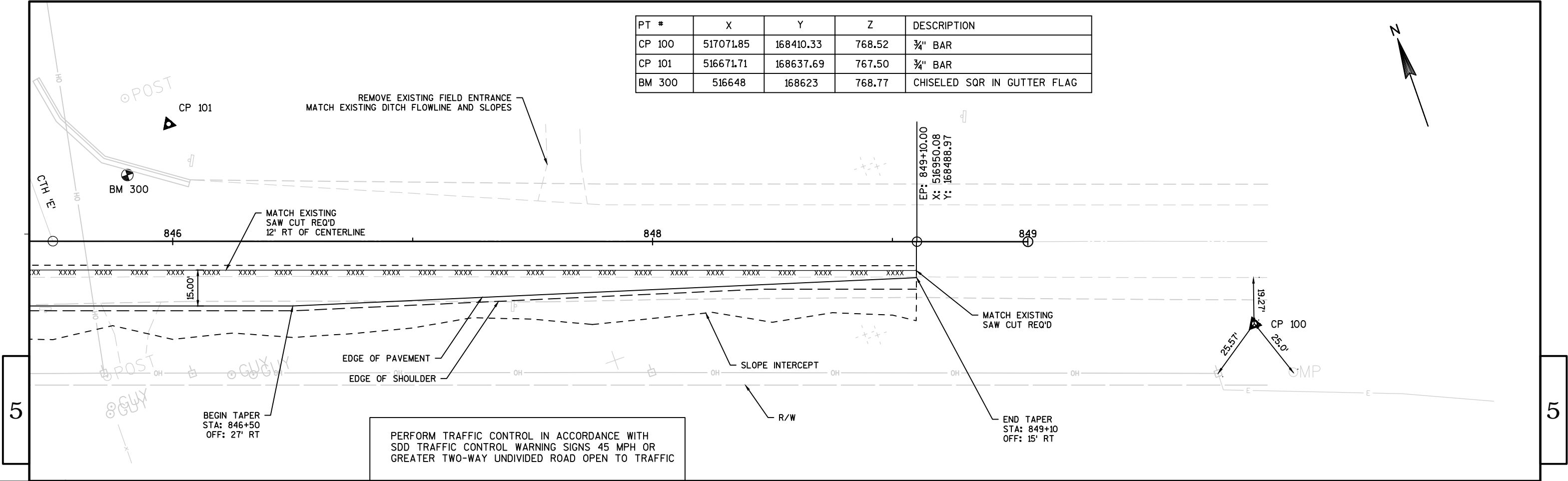


PI STA = 842+92.61
Y = 168692.187
X = 516366.468
DELTA = 6°58'22"
D = 1°27'50"
T = 238.45'
L = 476.30'
R = 3913.76'
PC STA = 840+54.16
PT STA = 845+30.47
SE = 3.7%

PT #	X	Y	Z	DESCRIPTION
CP 101	516671.71	168637.69	767.50	¾" BAR
CP 102	516122.18	168711.30	762.18	¾" BAR
BM 300	516648	168623	768.77	CHISELED SQR IN GUTTER FLAG

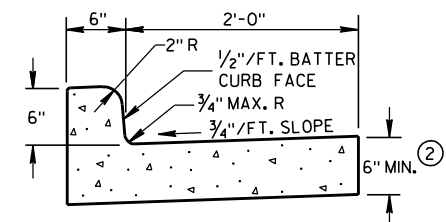


PT #	X	Y	Z	DESCRIPTION
CP 100	517071.85	168410.33	768.52	¾" BAR
CP 101	516671.71	168637.69	767.50	¾" BAR
BM 300	516648	168623	768.77	CHISELED SQR IN GUTTER FLAG

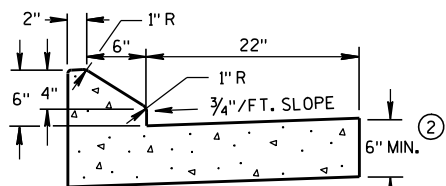


Standard Detail Drawing List

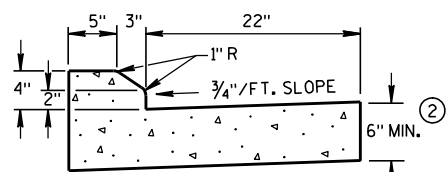
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH



TYPES A & D ①



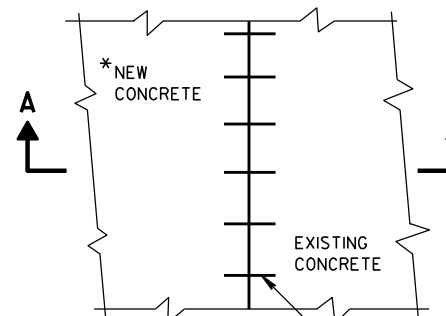
6" SLOPED CURB TYPES G & J ①



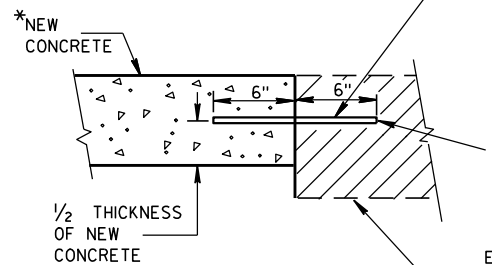
4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

* NEW CURB & GUTTER,
SURFACE DRAINS,
CONCRETE PAVEMENT
OR OTHER NEW CONCRETE.



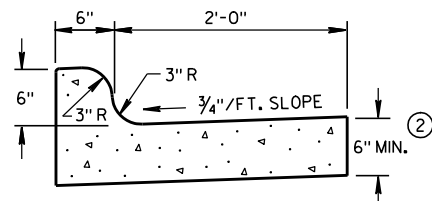
PLAN VIEW

SECTION A-A
TIE BARS DRILLED
INTO EXISTING PAVEMENT

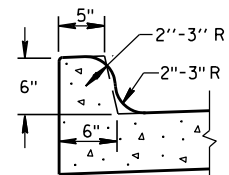
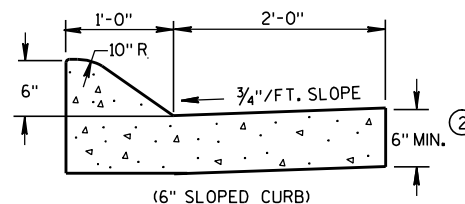
NO. 6 TIE BARS SPACED 2'-6" C-C,
INSTALLED PERPENDICULAR
TO THE LONGITUDINAL JOINT.

MAXIMUM DRILL HOLE
SIZE IS 1/8" GREATER
THAN TIE BAR DIAMETER

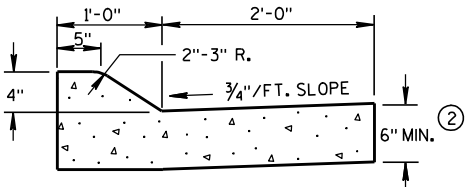
EXISTING
CONCRETE



TYPES K & L ①

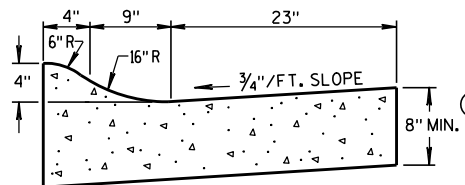
OPTIONAL CURB SHAPE
FOR TYPES K & L ①

(6" SLOPED CURB)



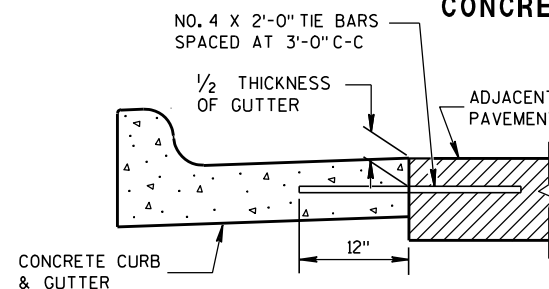
(4" SLOPED CURB)

TYPES A & D ①

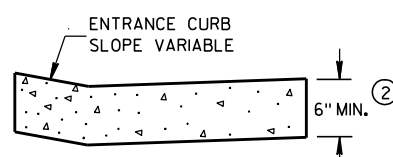


4" SLOPED CURB TYPES R & T ① ④

CONCRETE CURB & GUTTER 36"

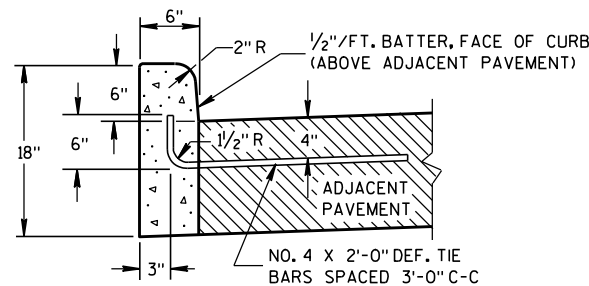


TYPICAL TIE BAR LOCATION ①



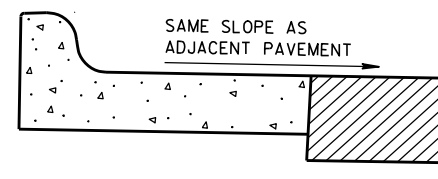
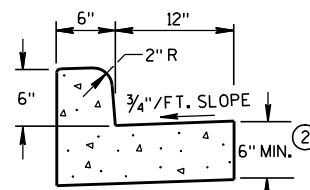
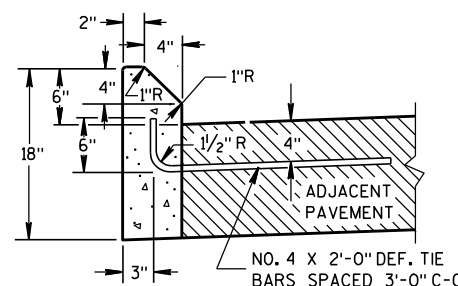
DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)



TYPES A & D ①

CONCRETE CURB

REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)TYPES A & D
CONCRETE CURB & GUTTER 18"

TYPES G & J ①

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

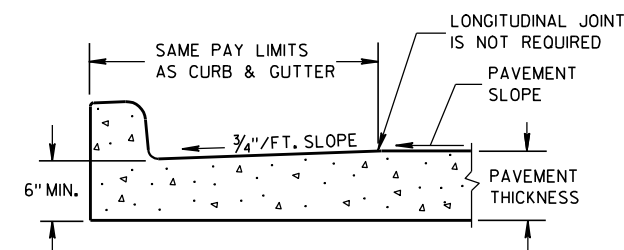
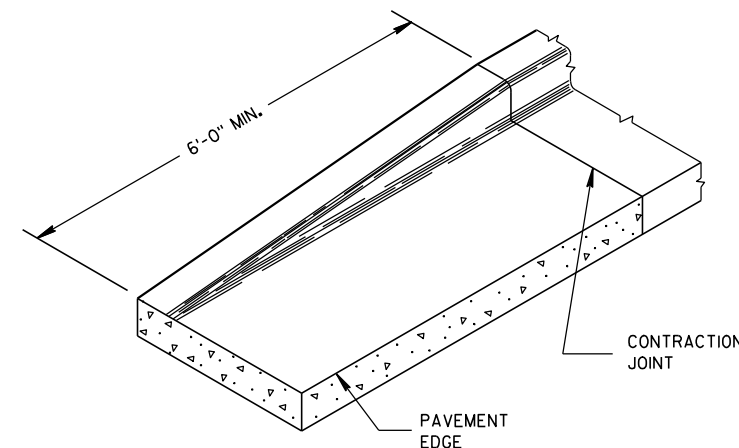
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER

END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE
CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/4/08

DATE

FHWA

/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

ENGINEER

6



PLAN VIEW
FLUME AT CURB END

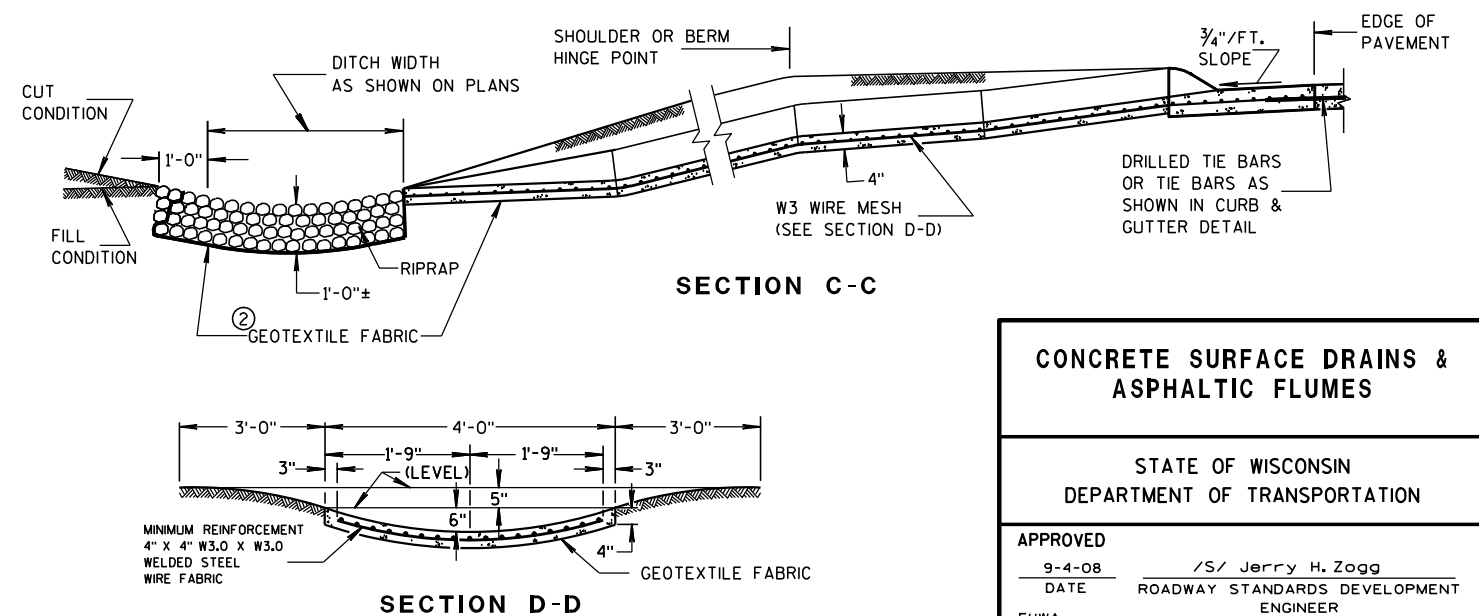


6

S.D.D. 8 D 4-5

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

SECTION C-C

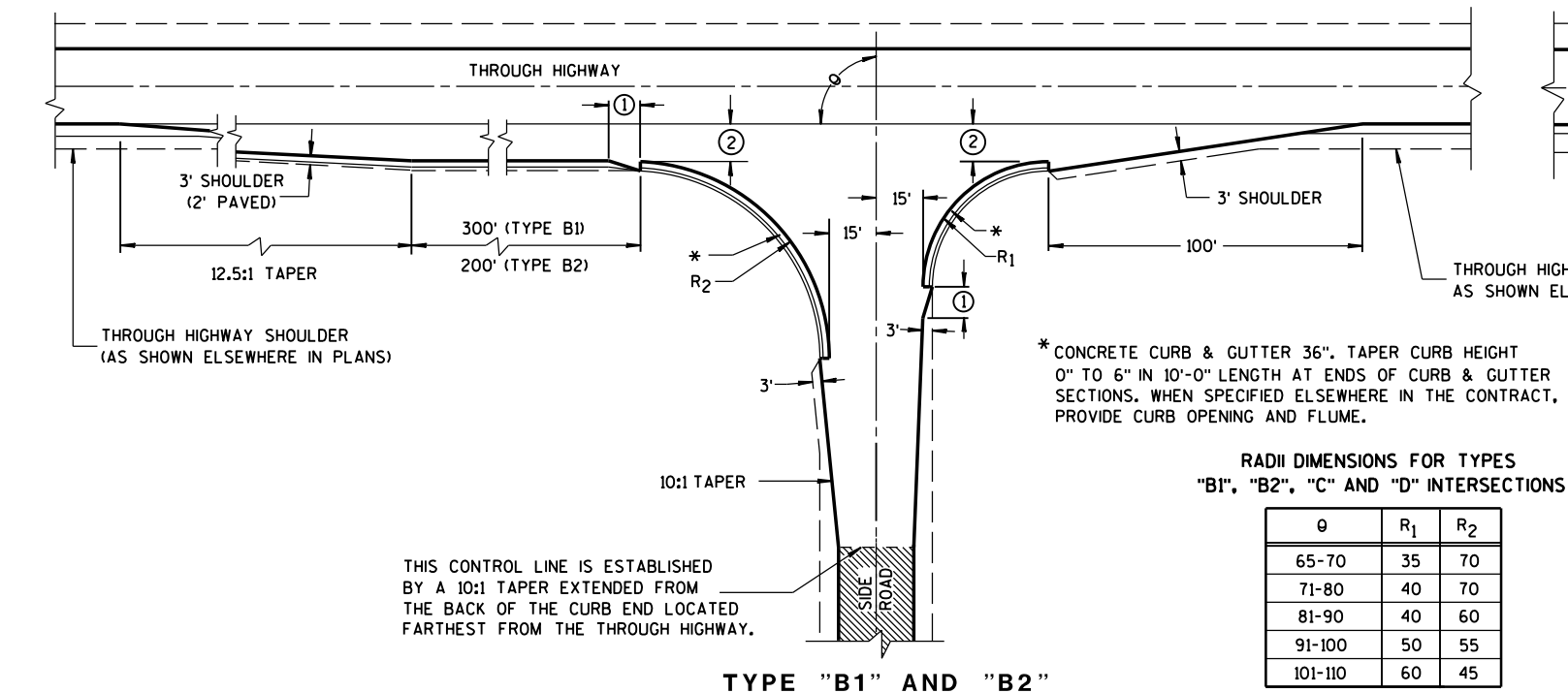




- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS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



<p>SILT FENCE</p>	
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>	
<p>APPROVED 4-29-05 DATE</p>	<p>/s/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER</p>



GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

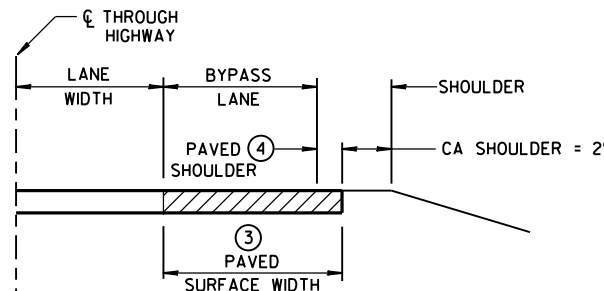
WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

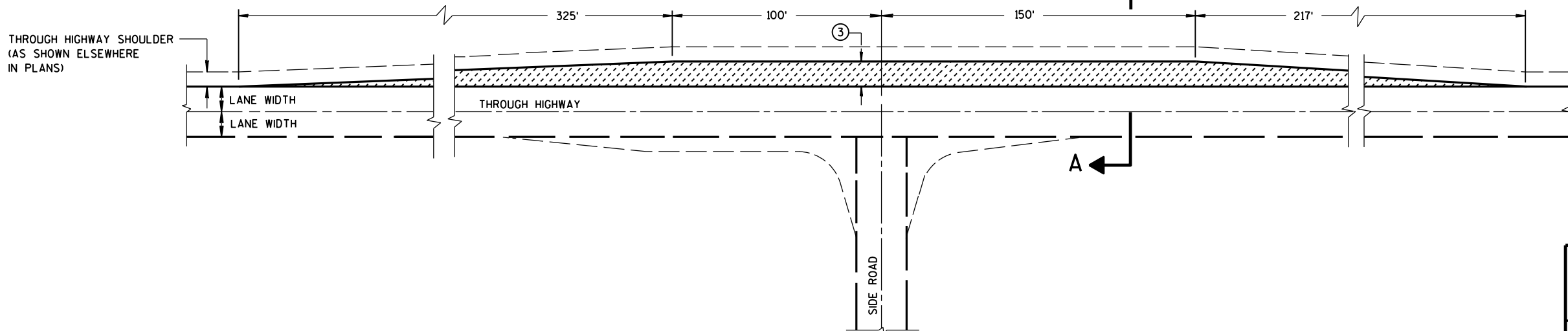
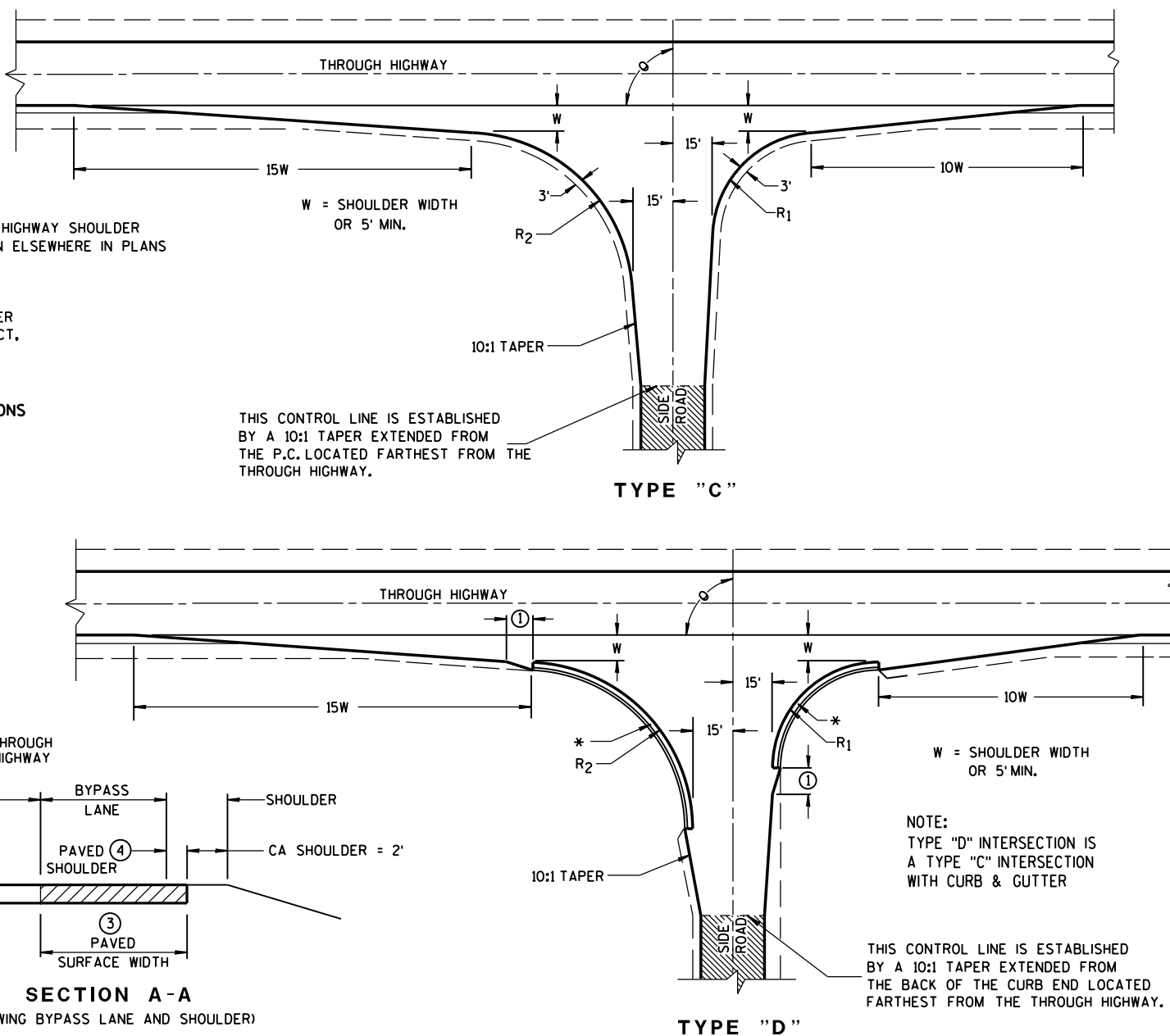
BYPASS LANE

- 10-FT TYPICAL.
- 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.
- BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.
- BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



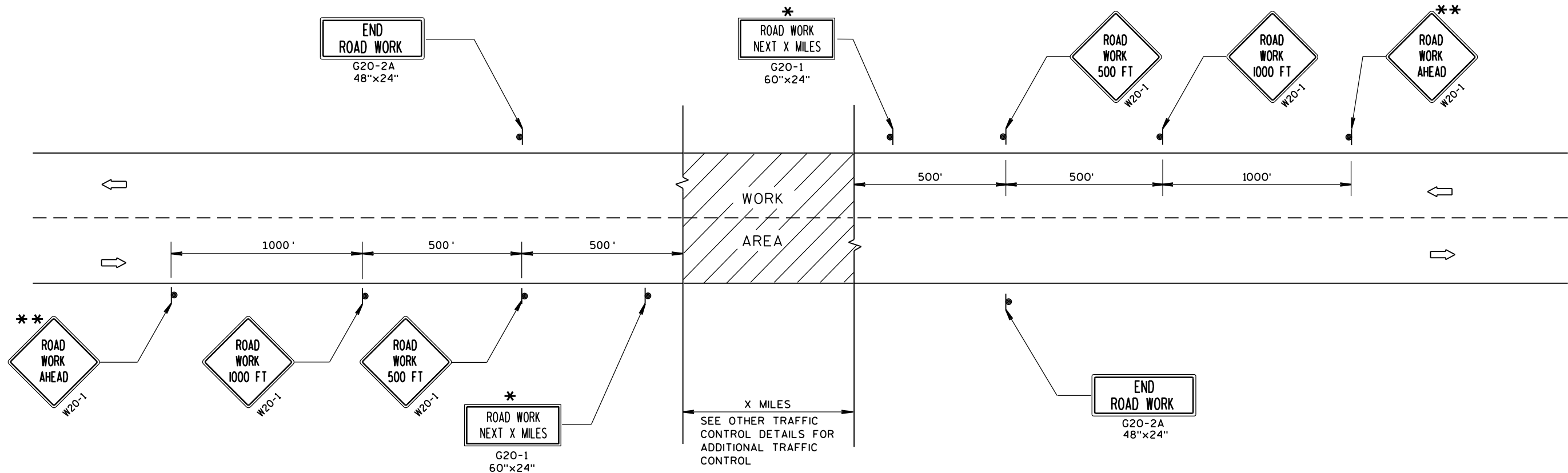
SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD
INTERSECTION, TYPES "B1", "B2",
"C" AND "D" AND TEE
INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

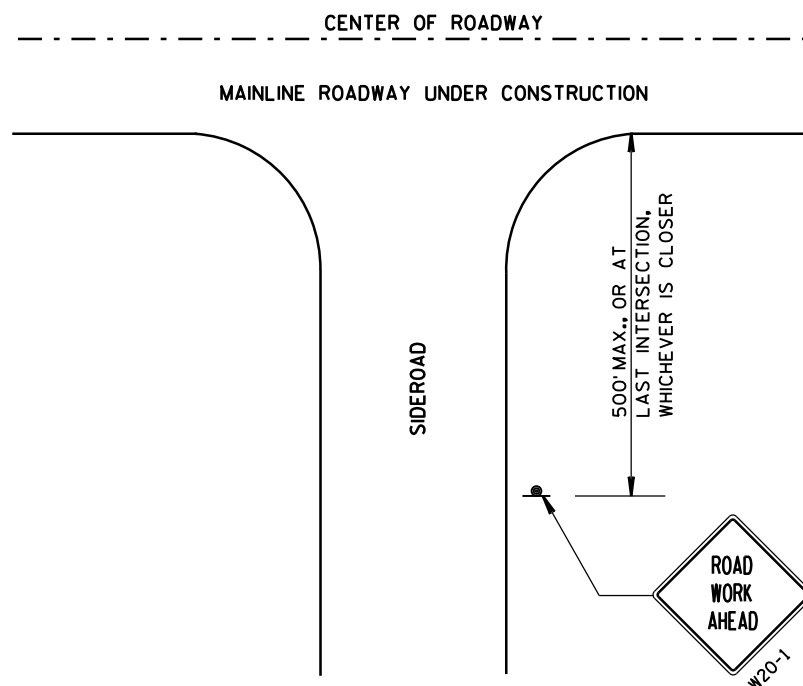
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

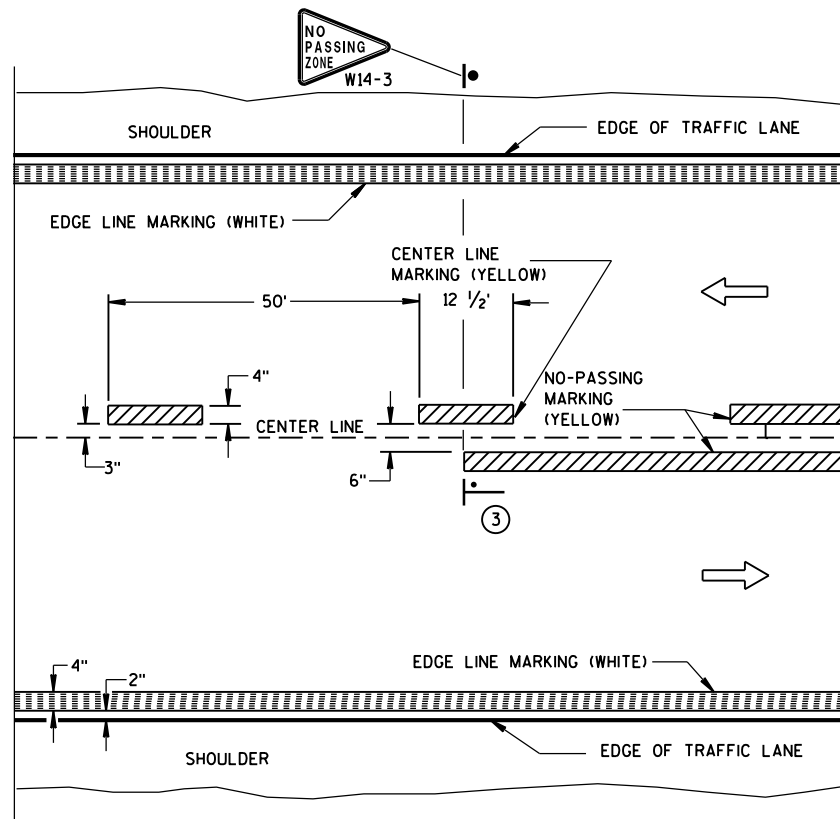
8/2013

DATE

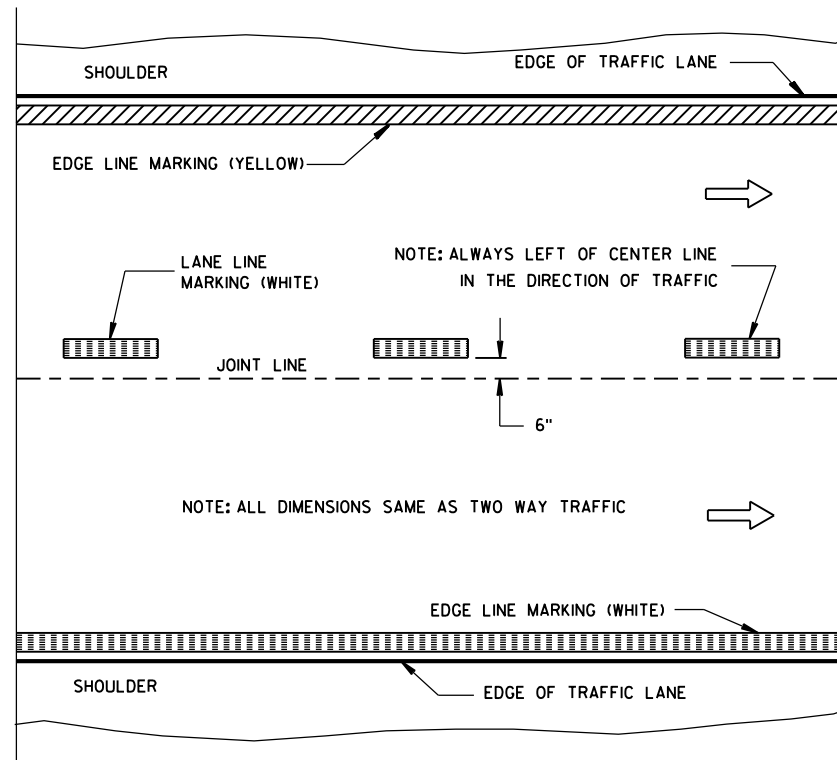
FHWA

/S/ Travis Feltes

STATE TRAFFIC ENGINEER OF DESIGN

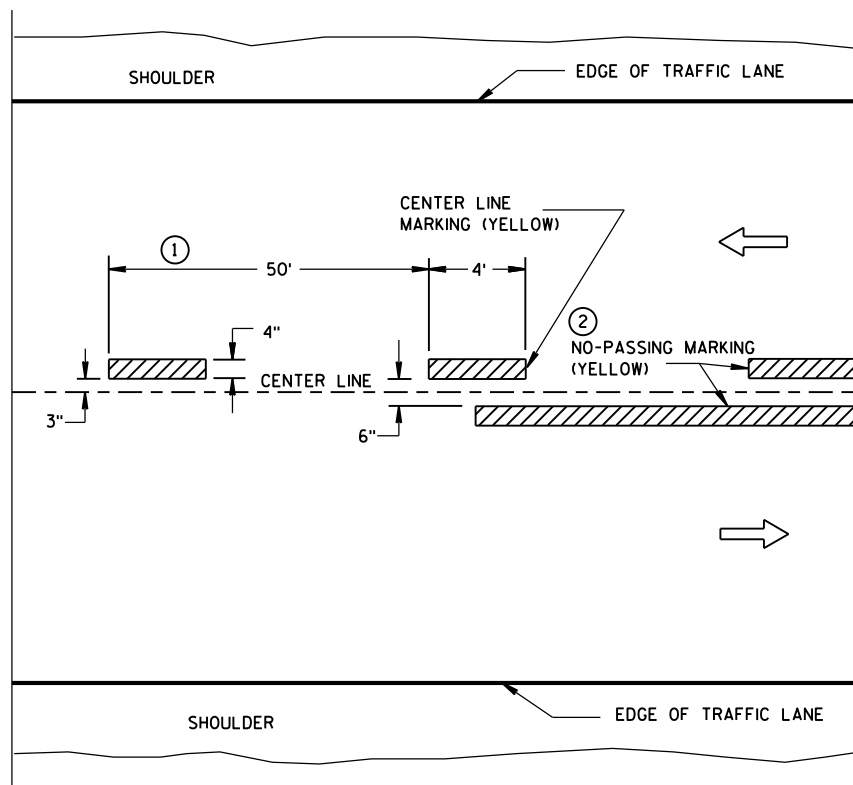


TWO WAY TRAFFIC

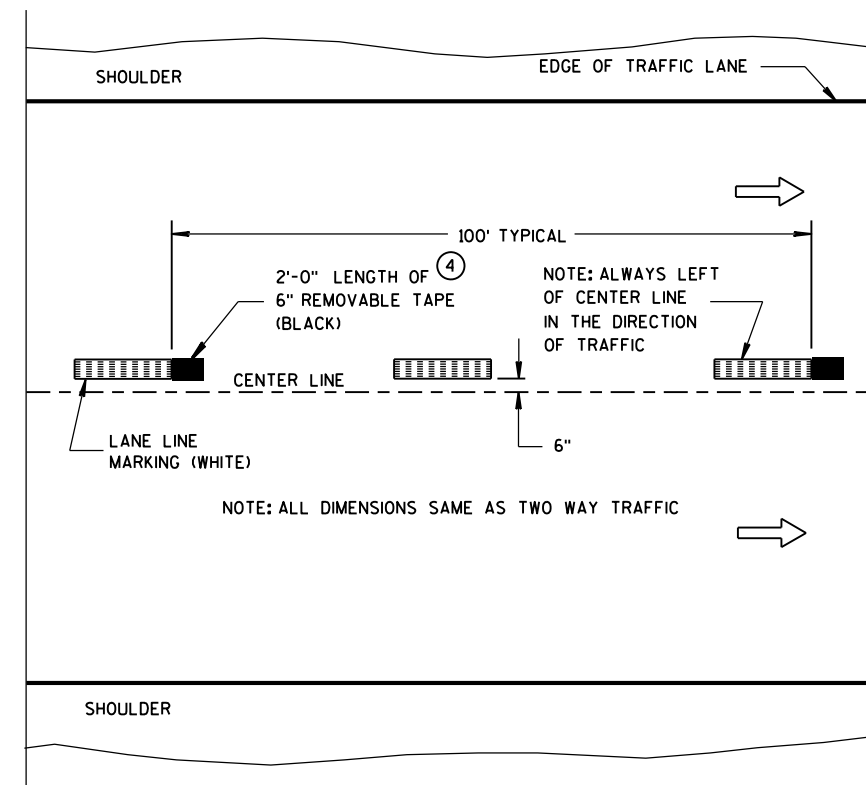


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

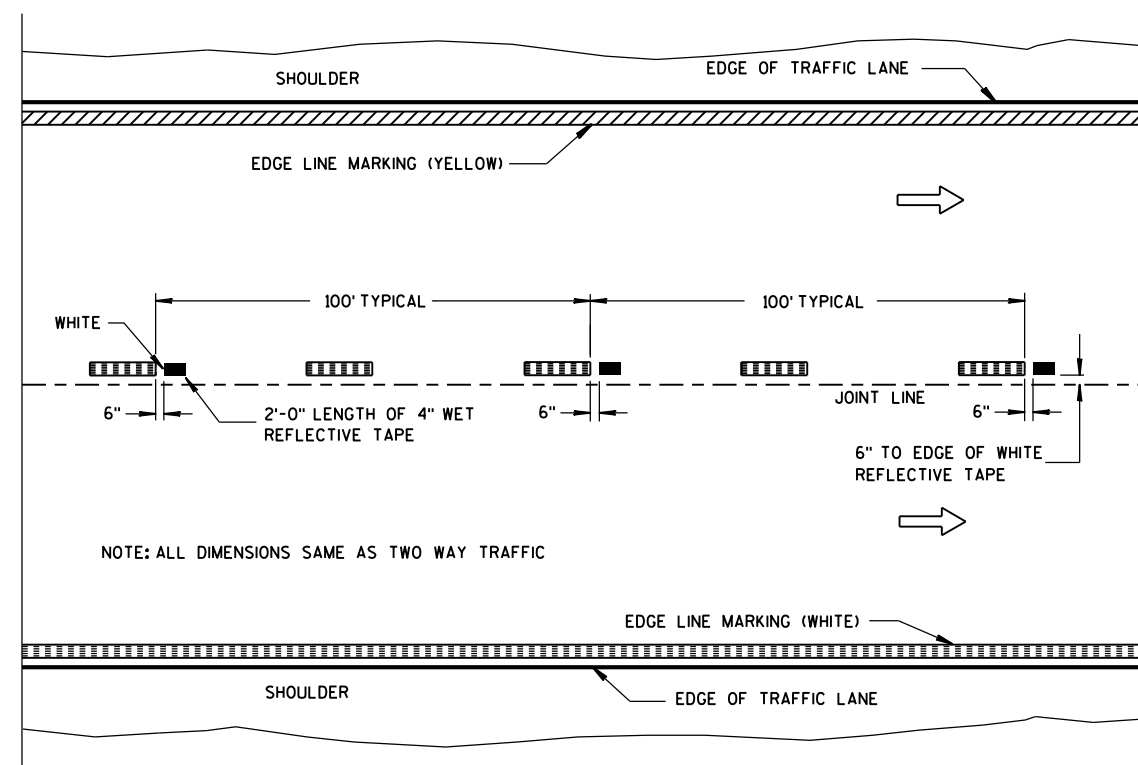
GENERAL NOTES

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

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

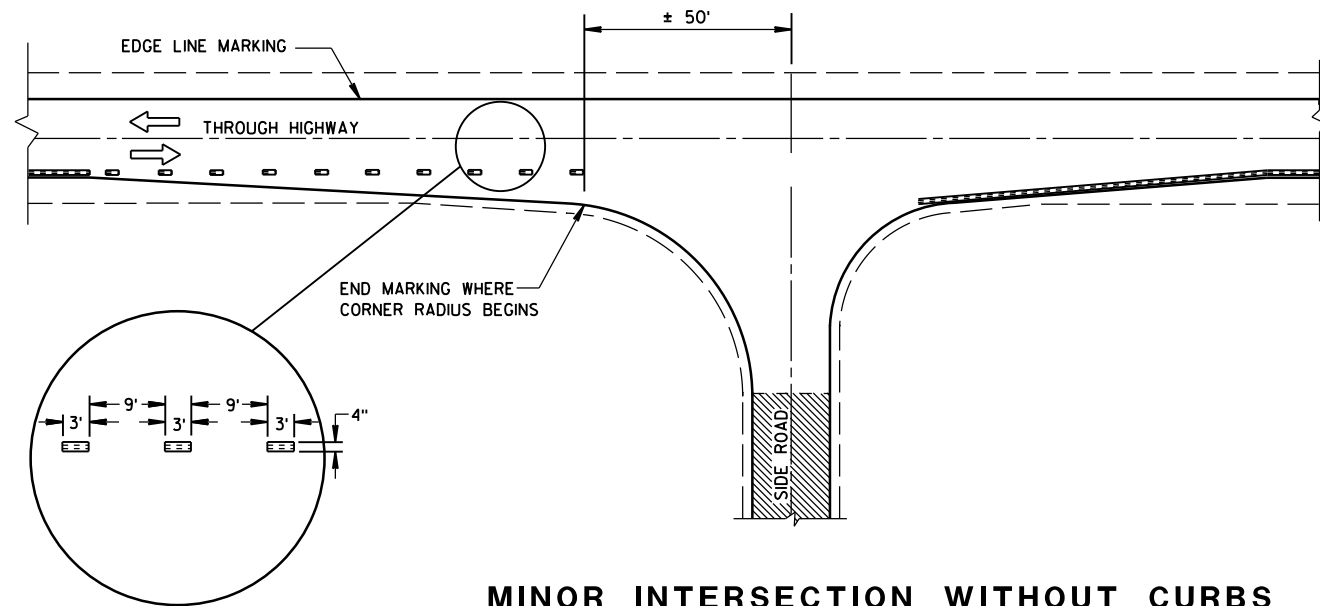
- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013
DATE
FHWA

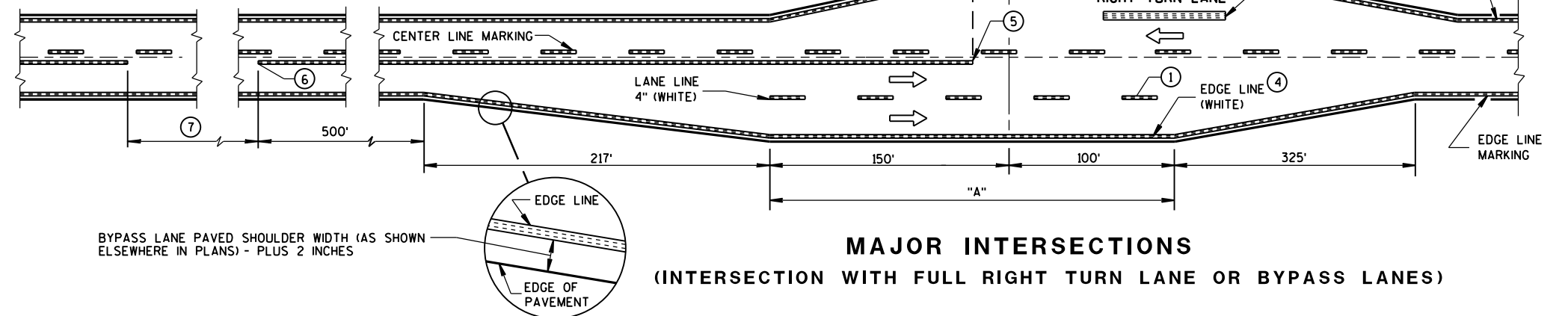
/S/ Travis Feltes
STATE TRAFFIC ENGINEER



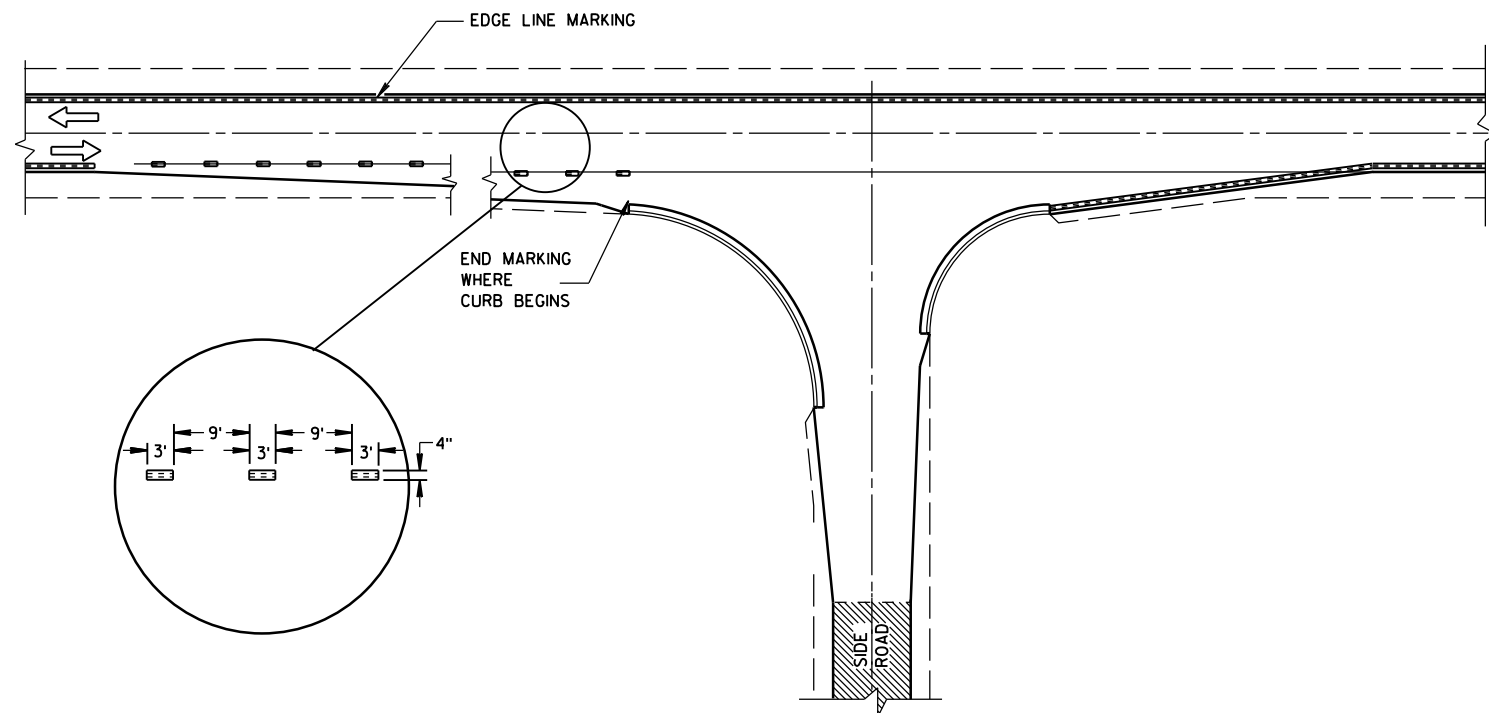
MINOR INTERSECTION WITHOUT CURBS

⑦

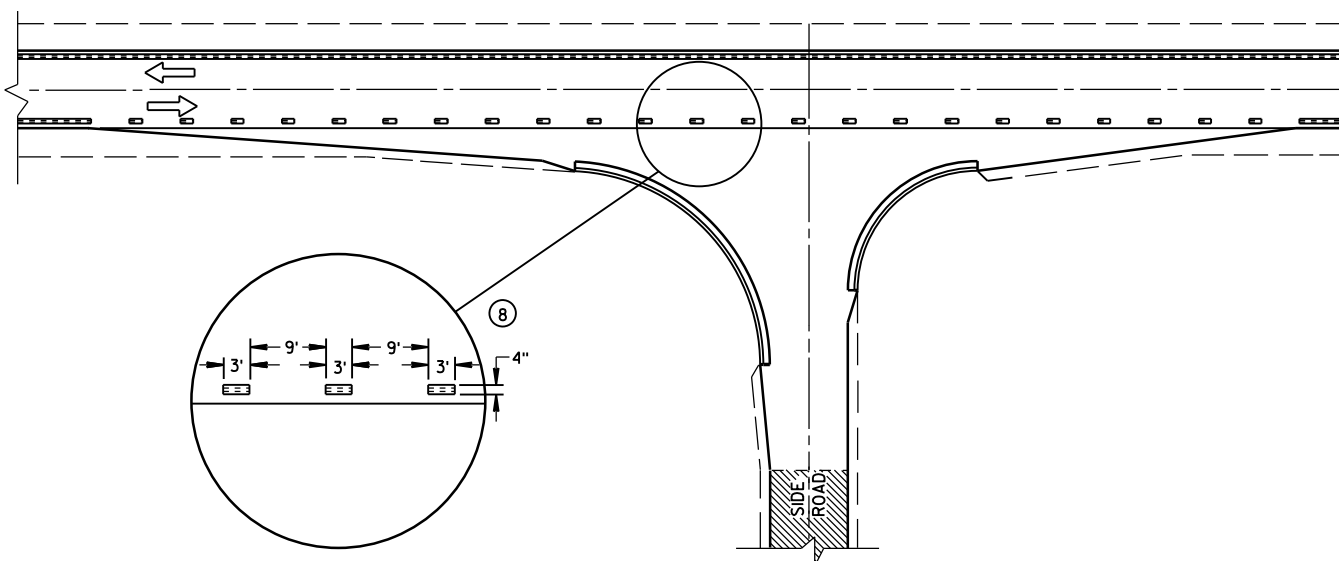
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES

- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
 - ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
 - ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
 - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
 - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
 - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
 - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
 - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

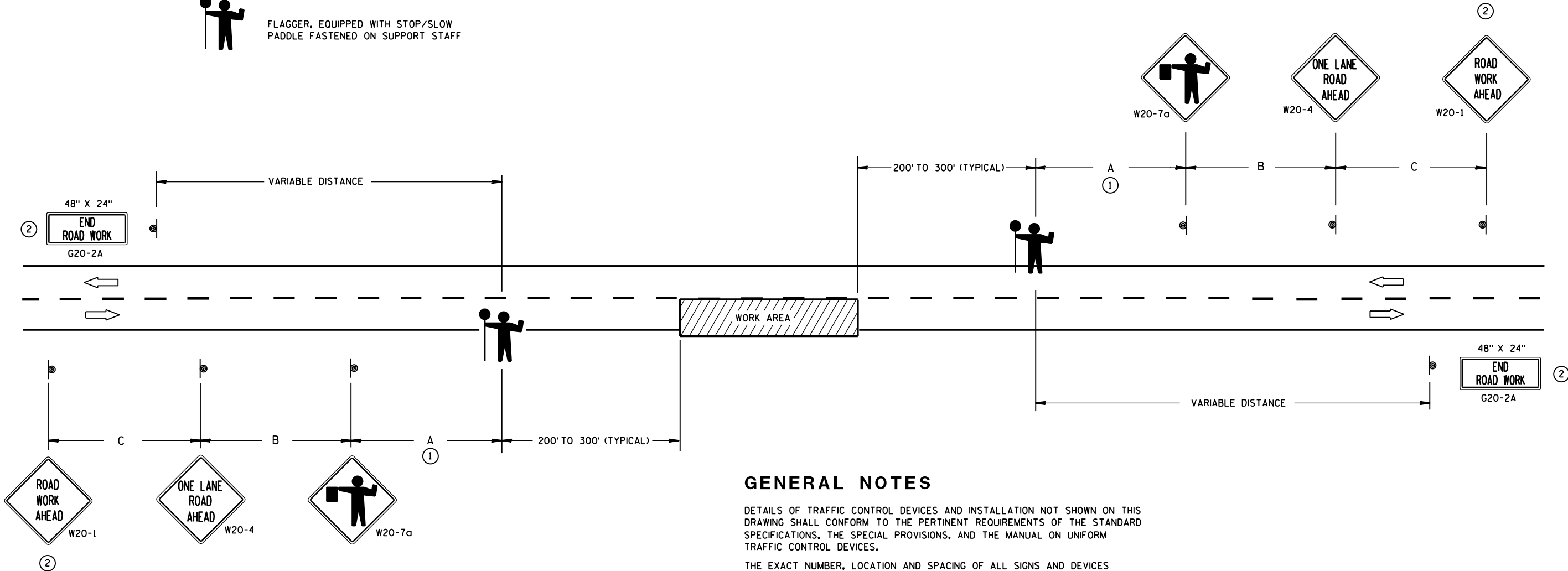
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA

LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

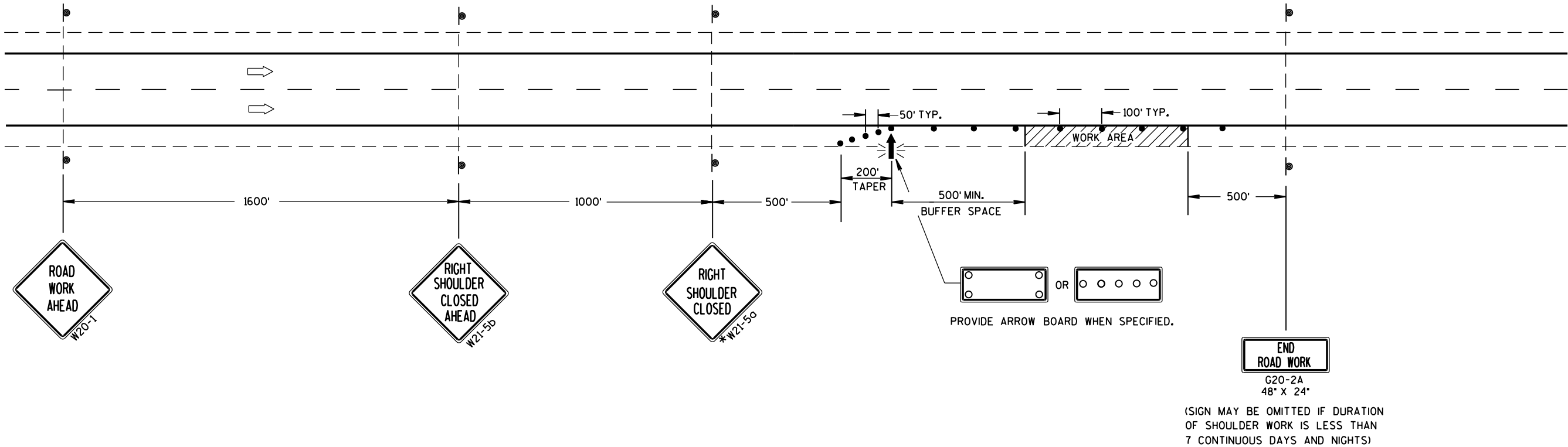
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.

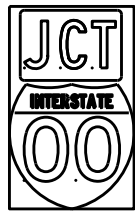


TRAFFIC CONTROL
SHOULDER CLOSURE ON DIVIDED
ROADWAY, SPEEDS GREATER
THAN 40 MPH

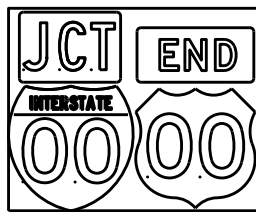
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltz
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA

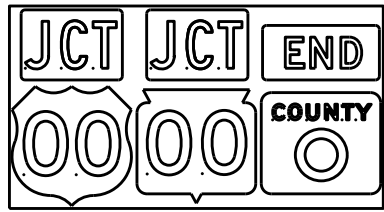
TYPICAL ASSEMBLIES



J1-1



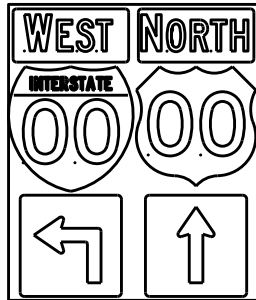
J1-2



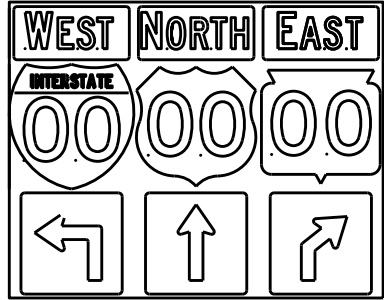
J1-3



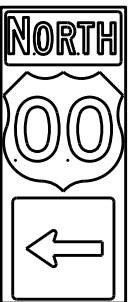
J2-1



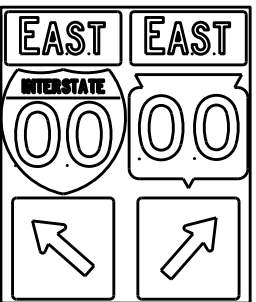
J2-2



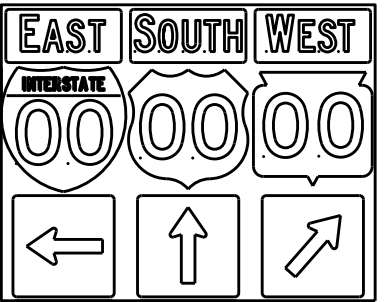
J2-3



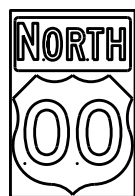
J3-1



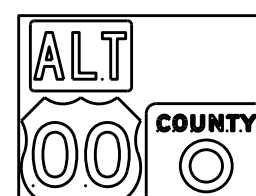
J3-2



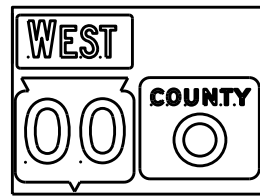
J3-3



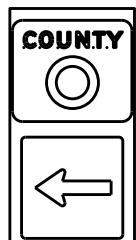
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

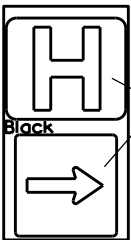


J22-1



JV

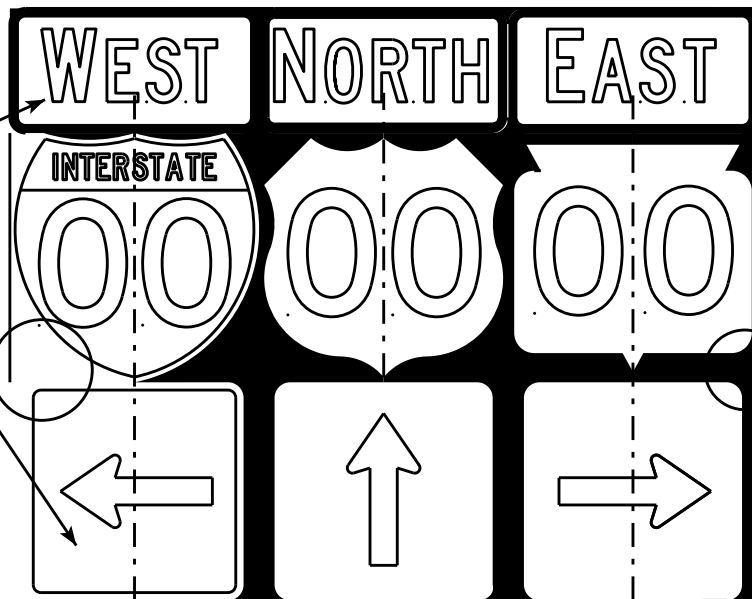
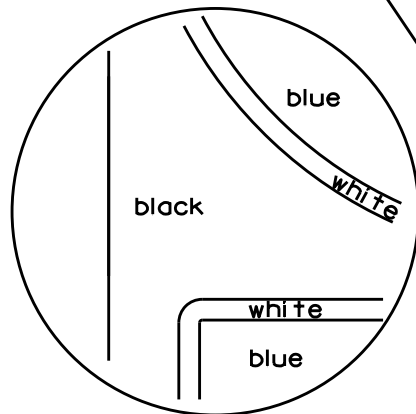
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/06/14 PLATE NO. A2-1S.8

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Black Non-reflective
Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN

PLOT DATE : 06-FEB-2014 14:10

PLOT BY : mscs.ja

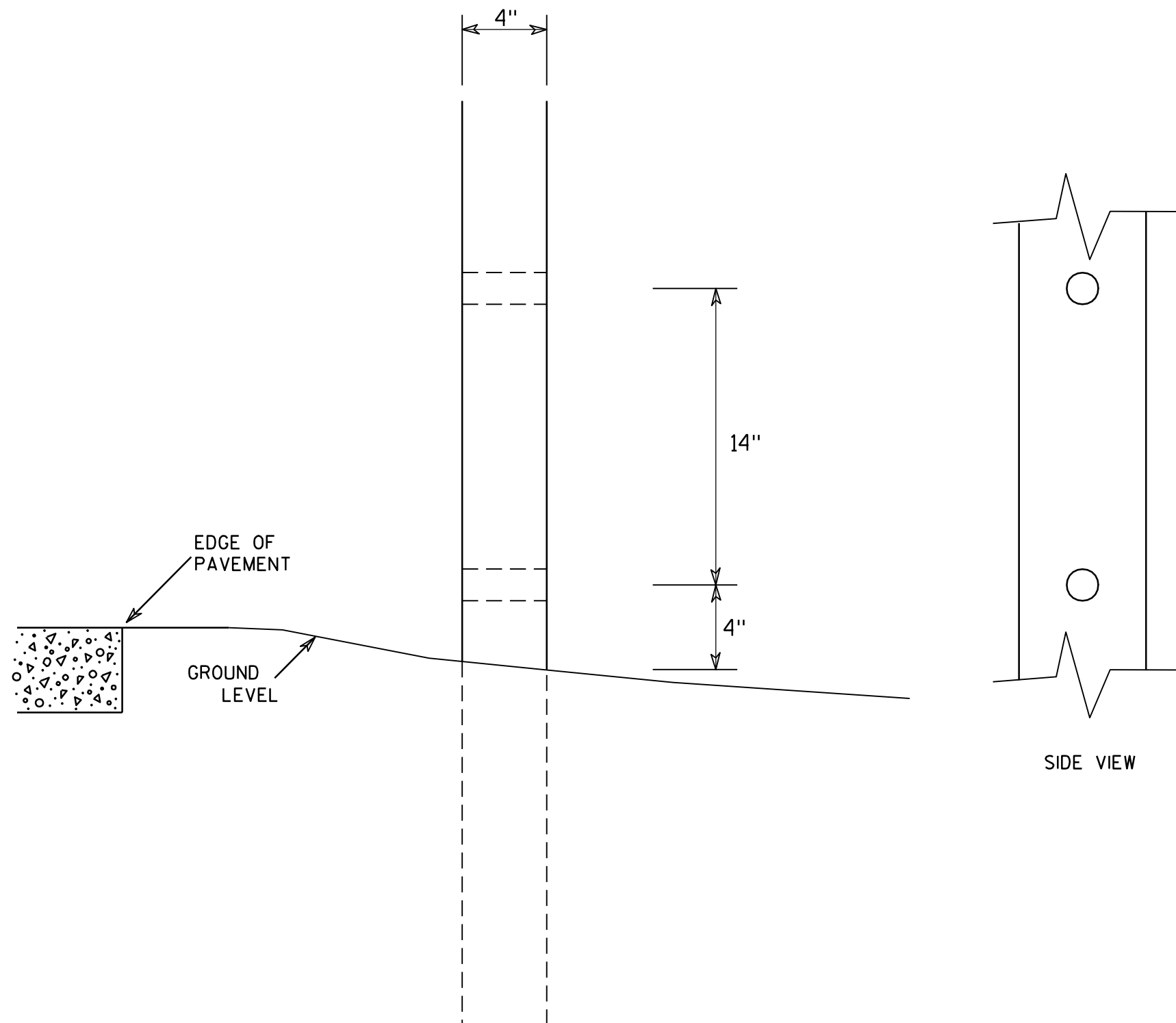
PLOT NAME :

SHEET NO:

E

WISDOT/CADDs SHEET 42

7



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

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:

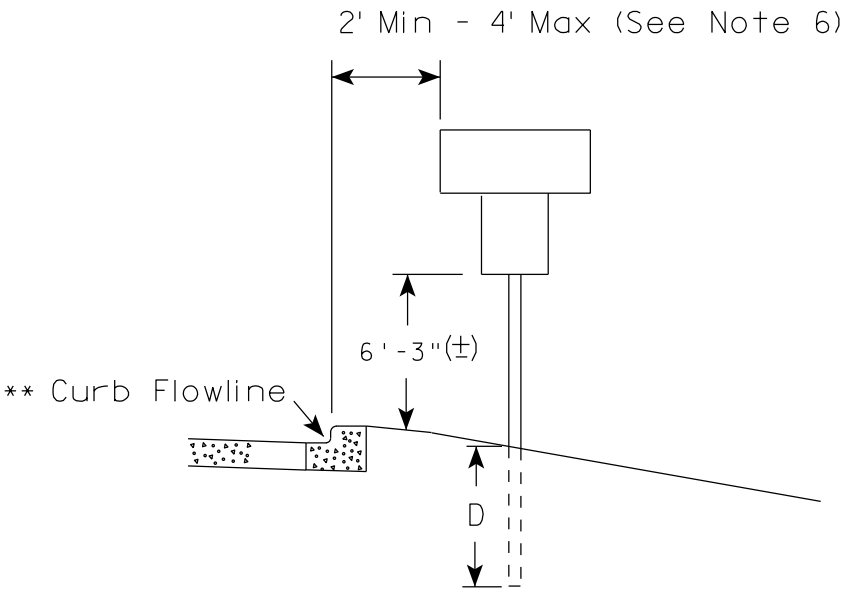
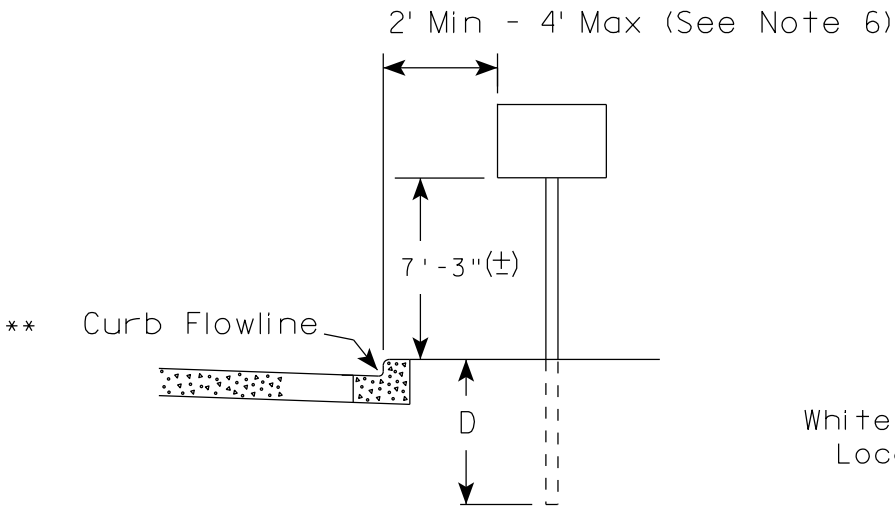
HWY:

COUNTY:

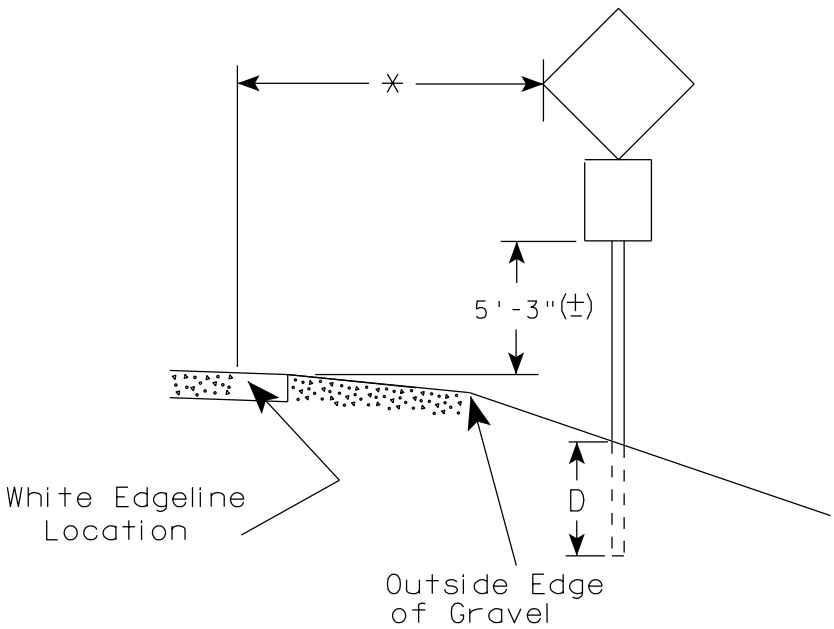
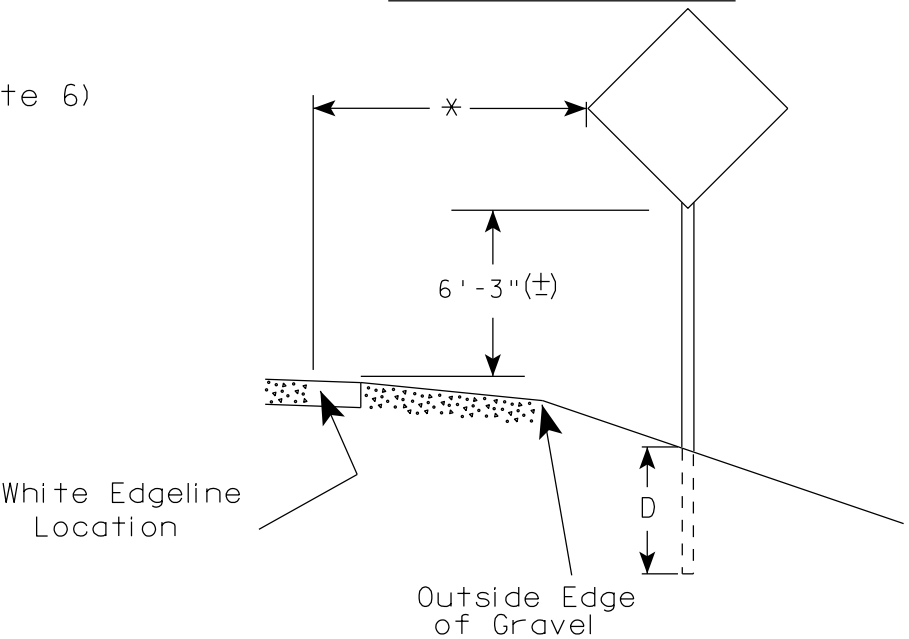
SHEET NO:

E

URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

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

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

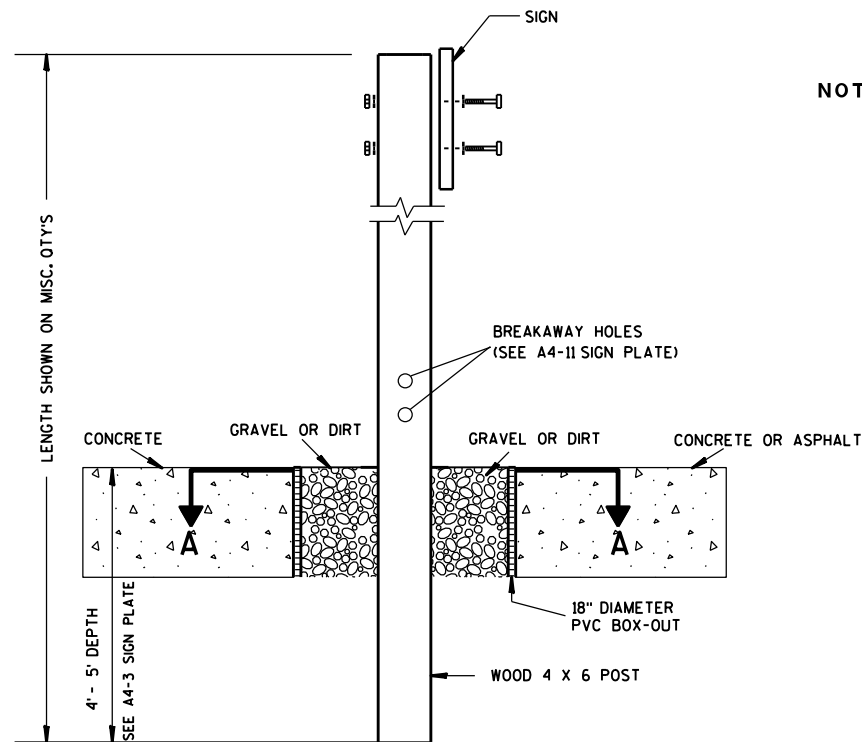
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

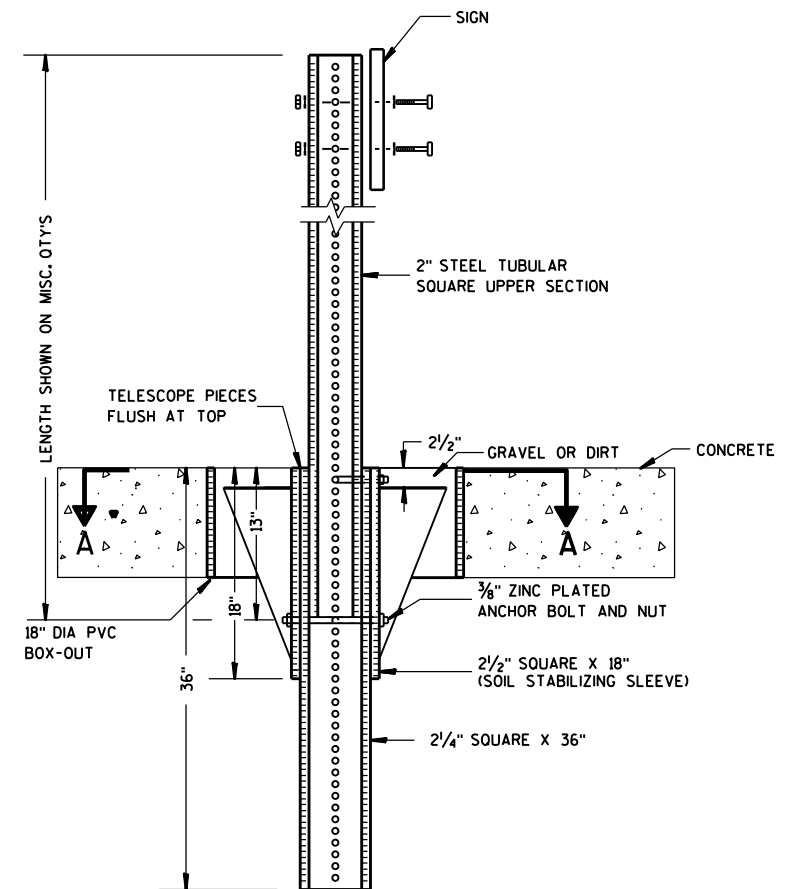
DATE 9/30/13 PLATE NO. A4-3.18



ELEVATION VIEW

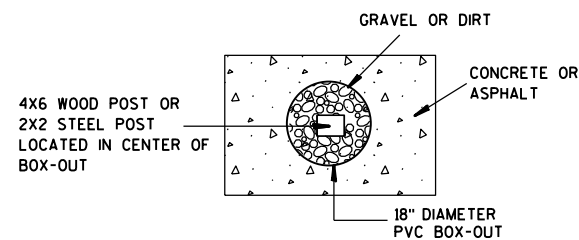
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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

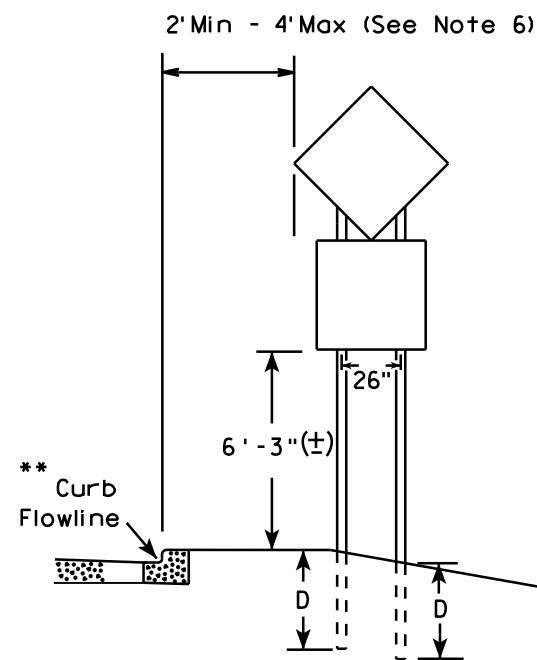
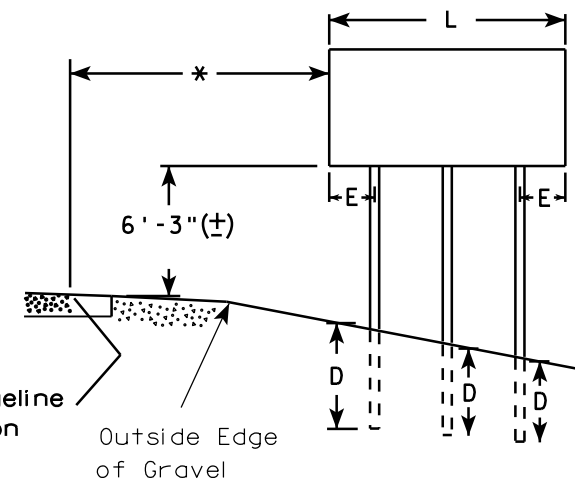
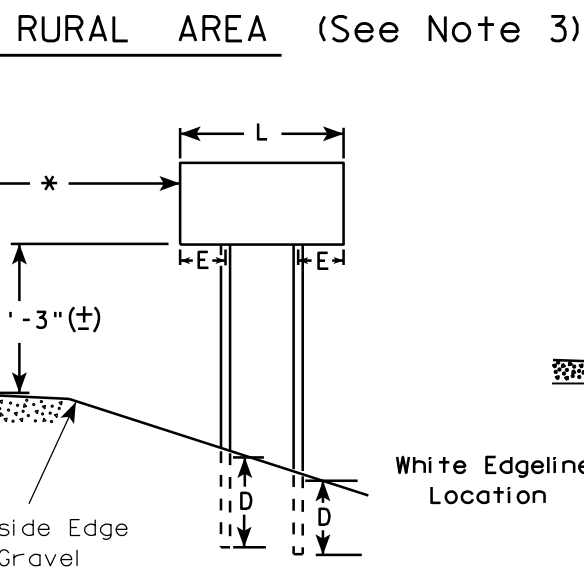
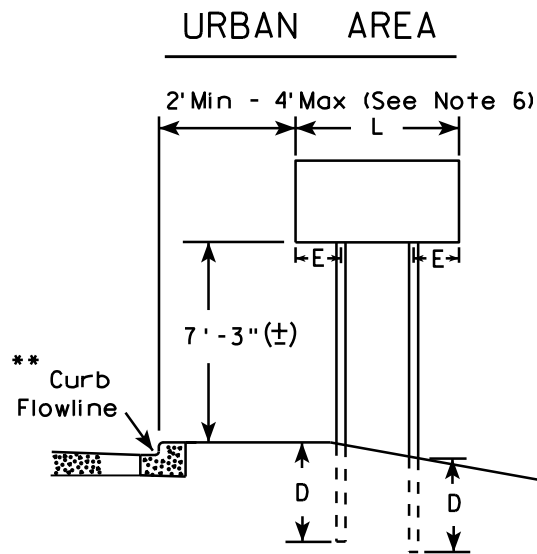
PROJECT NO:

HWY:

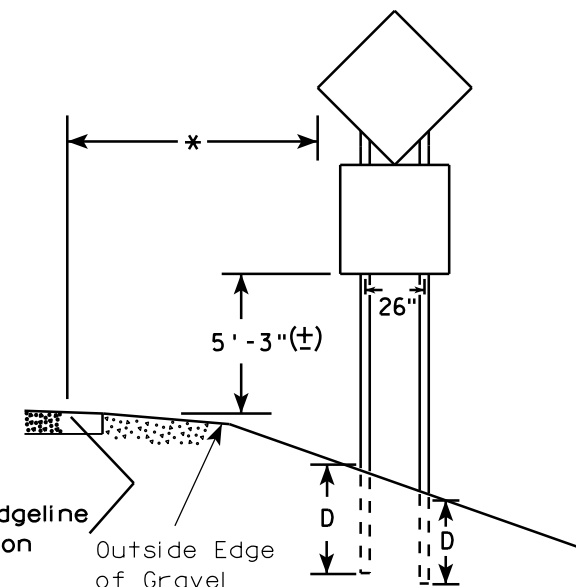
COUNTY:

SHEET NO:

E



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

- 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" (±) or 6'-3" (±) depending upon existence of sub-sign.
 4. The (±) tolerance for mounting height is 3 inches.
 5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-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 or 20 S.F. or less in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

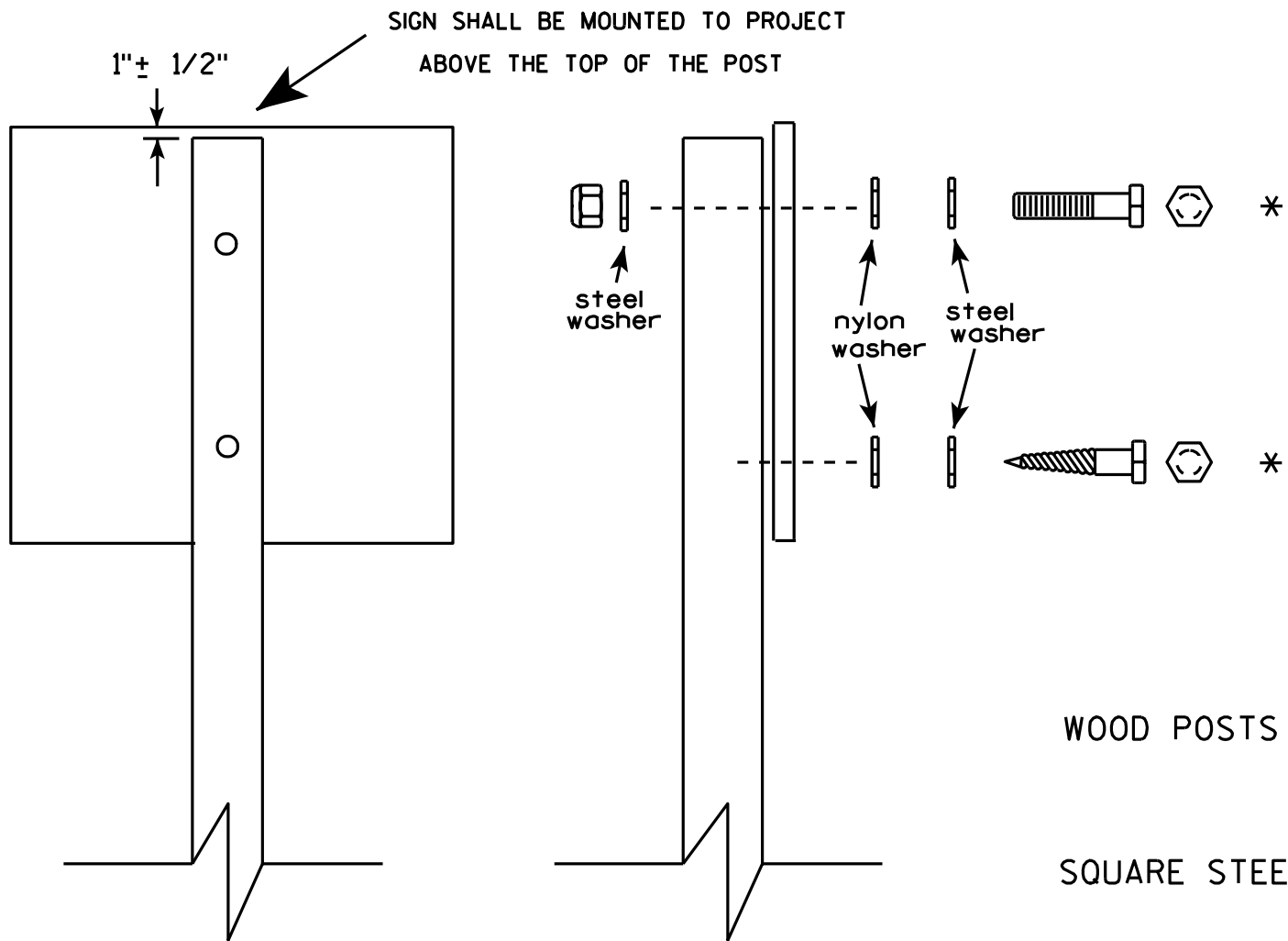
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 9/30/13 PLATE NO. A4-4.12

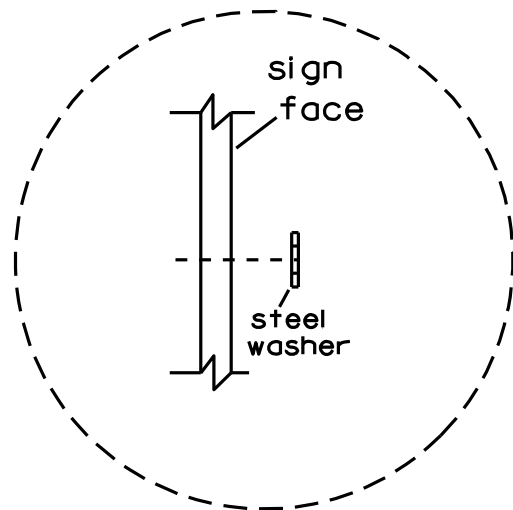


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

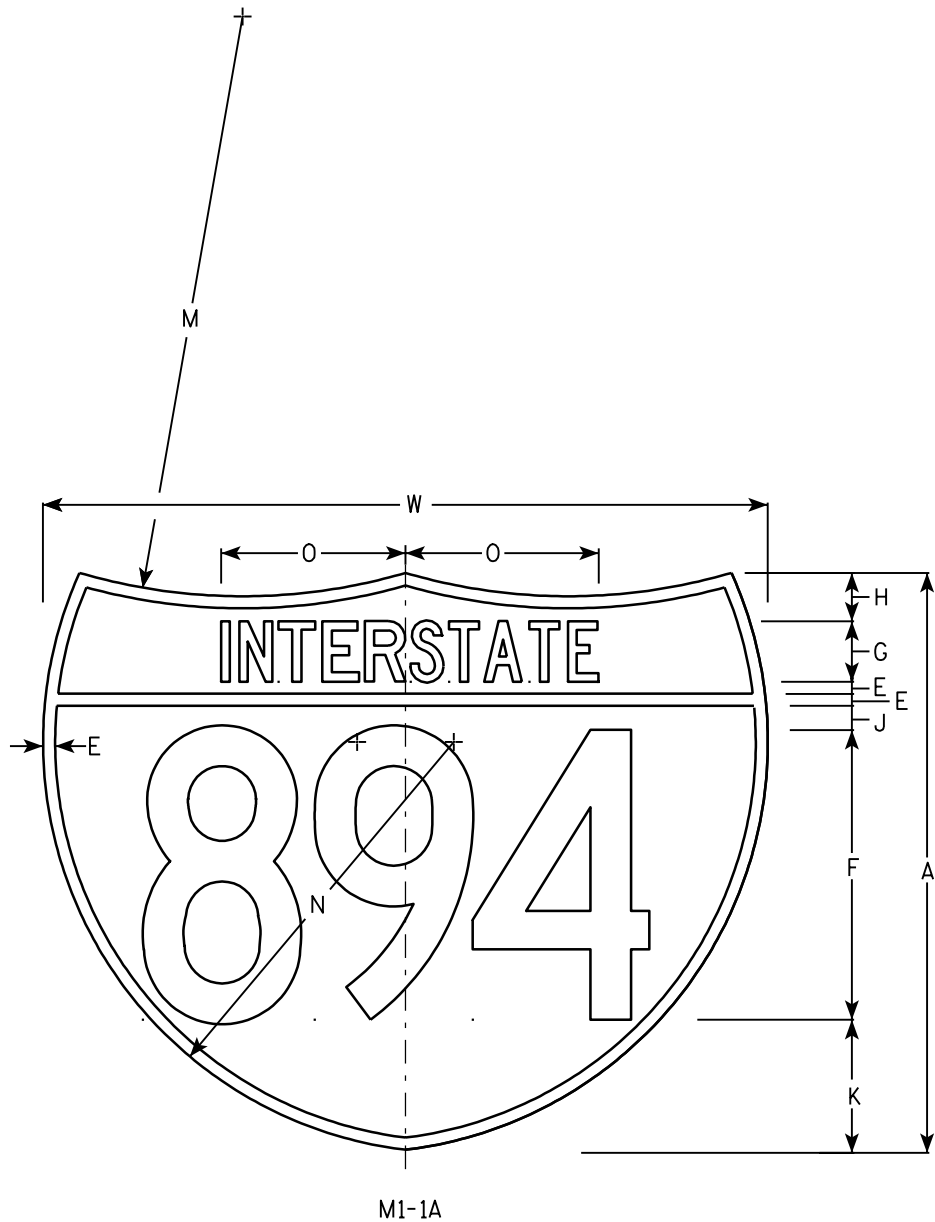
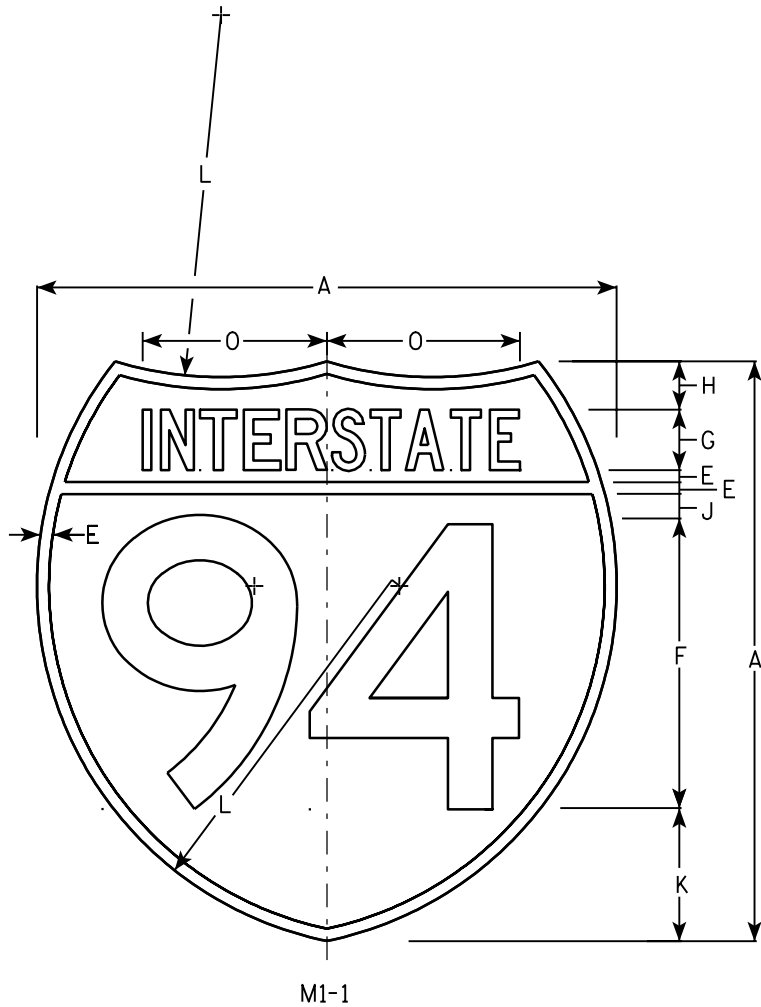
- WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 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 for all Type H signs.



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

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7



NOTES

- 1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Top Red - Bottom Blue (See Note 6)
Message - White - See Note 6
- 3. Message Series - See note 5
- 4. Substitute appropriate numerals & adjust spacing as per plate A10-1.
- 5. M1-1 - Numerals - D
Interstate - C
M1-1A - All copy - C
- 6. Permanent Signs
Message - Type H Reflective
Detour or other temporary signs
Background - Reflective
Message - Reflective

Metric equivalent for these signs are:

SIZE	M1 - 1	SIZE	M1 - 1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

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	Area sq. ft.	Area sq. ft.	Area m ²	Area m ²
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

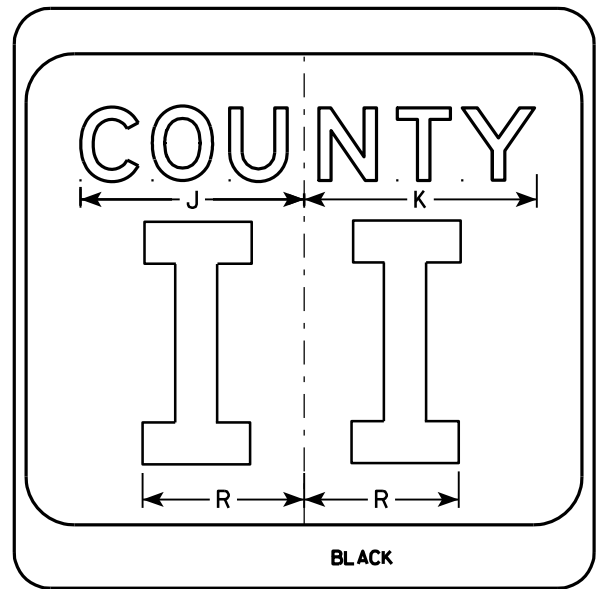
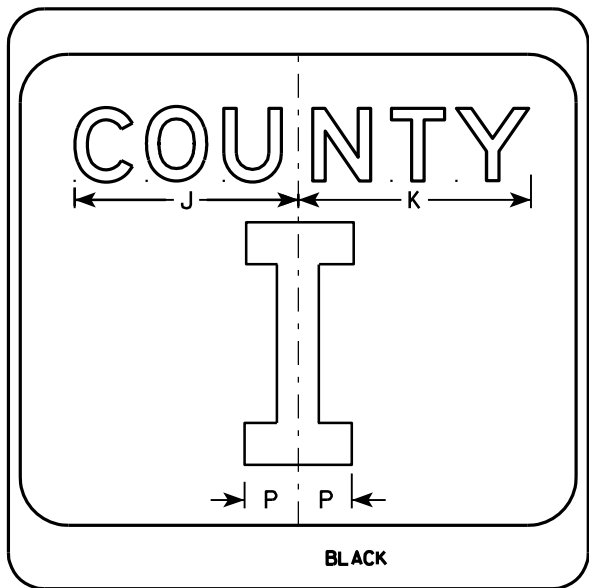
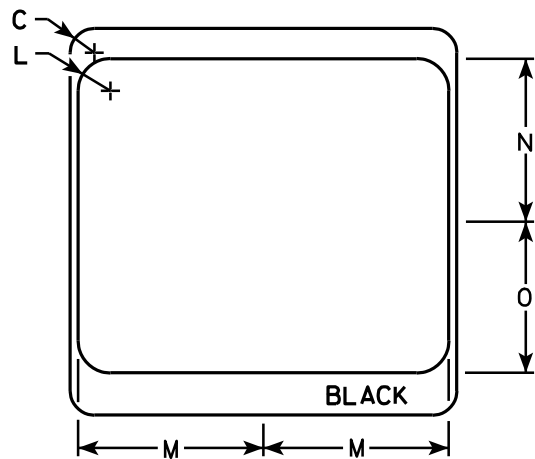
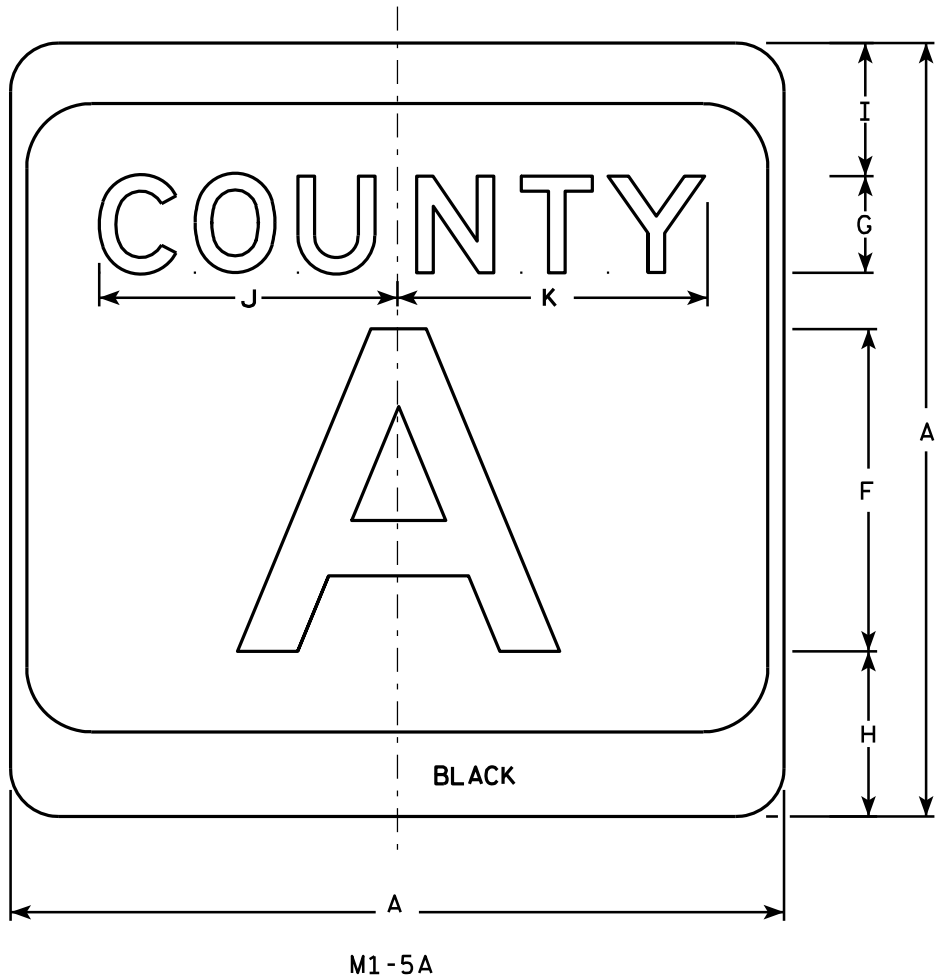
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

7



NOTES

- 1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - White & Black - See Note 7
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. Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective

7

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			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

CTH MARKER

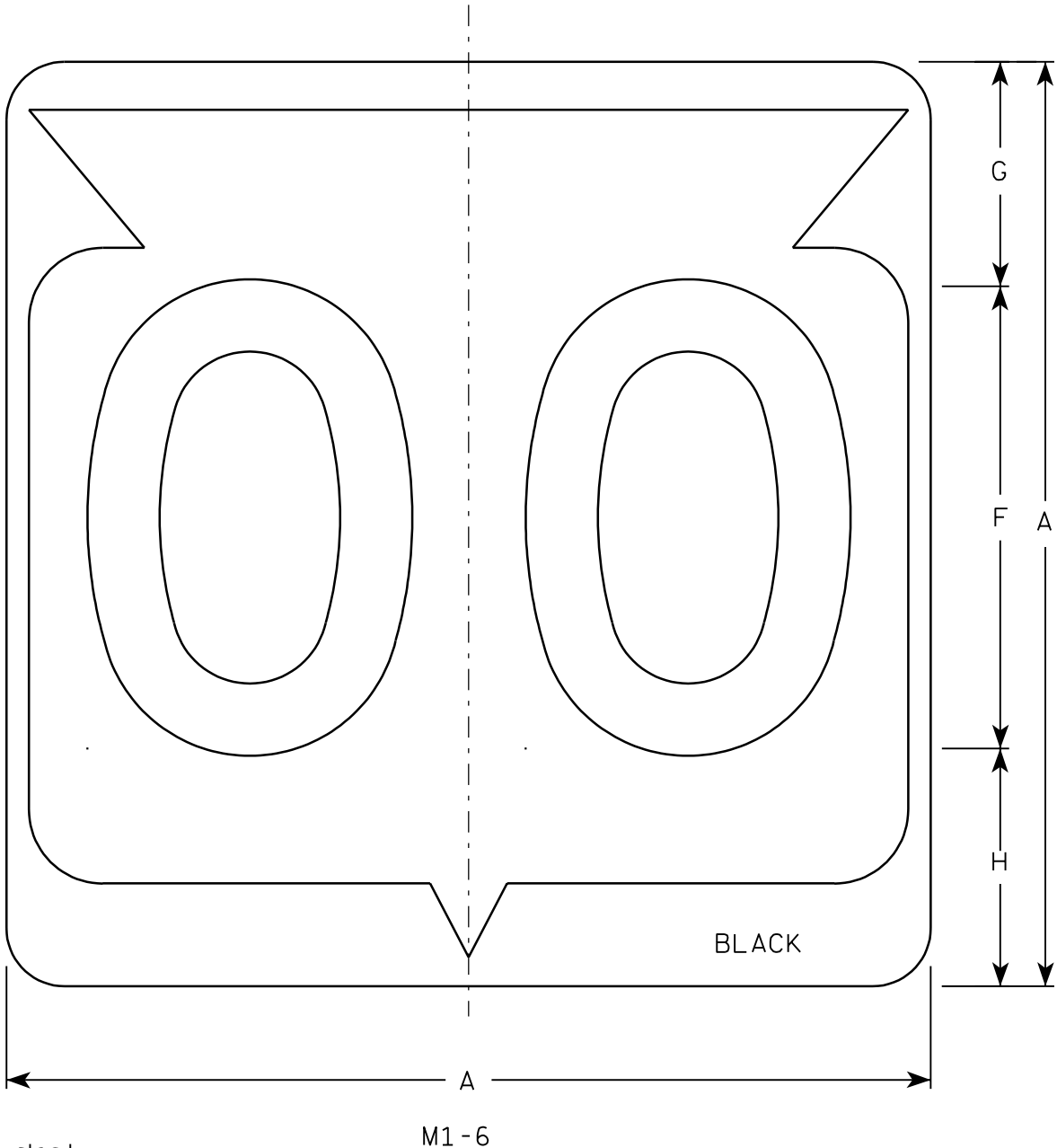
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

7



Metric equivalent
for this sign is:

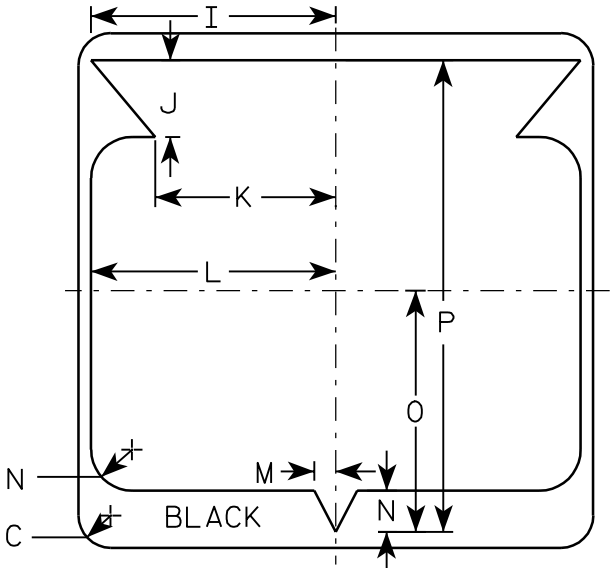
SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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.	Area m ²
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	.36
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	.81
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	.81
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	.81

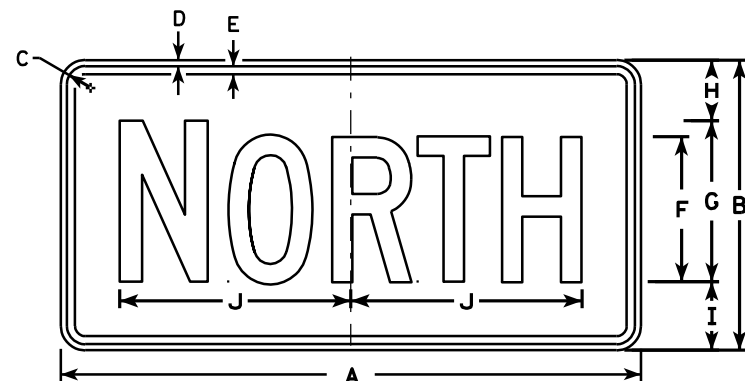
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E
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NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 6
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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



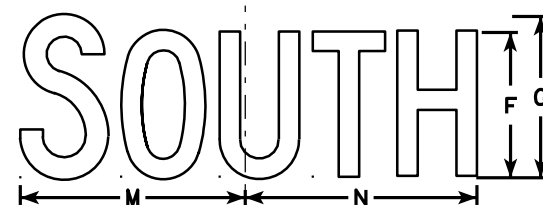
7



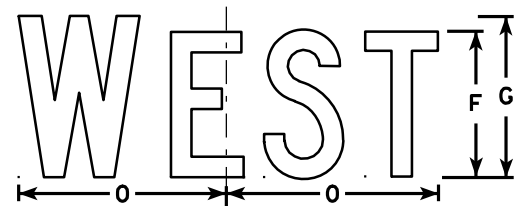
M3-1
MK3-1
M03-1



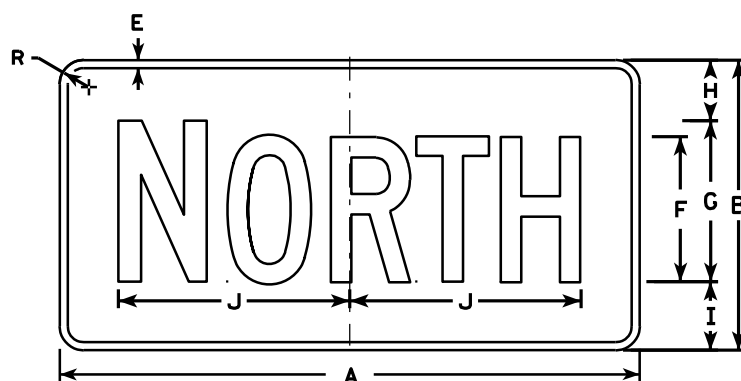
M3-2
MK3-2
M03-2



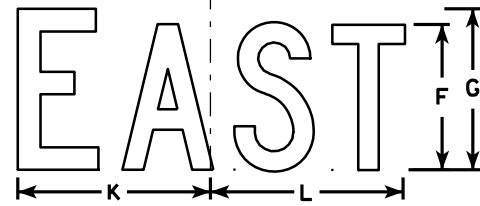
M3-3
MK3-3
M03-3



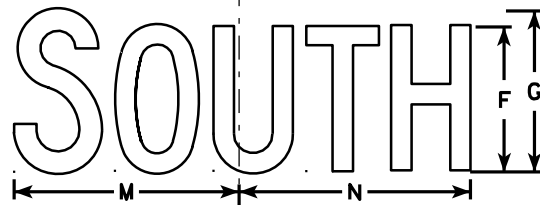
M3-4
MK3-4
M03-4



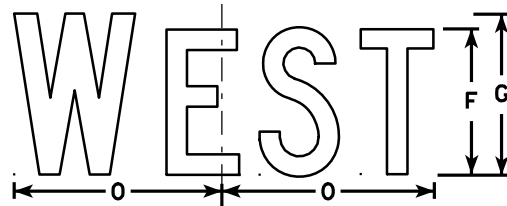
MB3-1
MG3-1
MM3-1
MN3-1



MB3-2
MG3-2
MM3-2
MN3-2



MB3-3
MG3-3
MM3-3
MN3-3



MB3-4
MG3-4
MM3-4
MN3-4

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective (Detour or temporary signs - Reflective)
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White - Type H Reflective (Detour or temporary signs - Reflective)
MG3-1 thru MG3-4 Background - Green
Message - White - Type H Reflective
MK3-1 thru MK3-4 Background - Green
Message - White - Type H Reflective
MM3-1 thru MM3-4 Background - White - Type H Reflective
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White - Type H Reflective
M03-1 thru M03-4 Background - Orange - Reflective
Message - Black
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																											
2	24	12	1 1/8	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			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

PROJECT NO: HWY: COUNTY: SHEET NO: E

STANDARD SIGNS M3-1 thru M3-4 SERIES

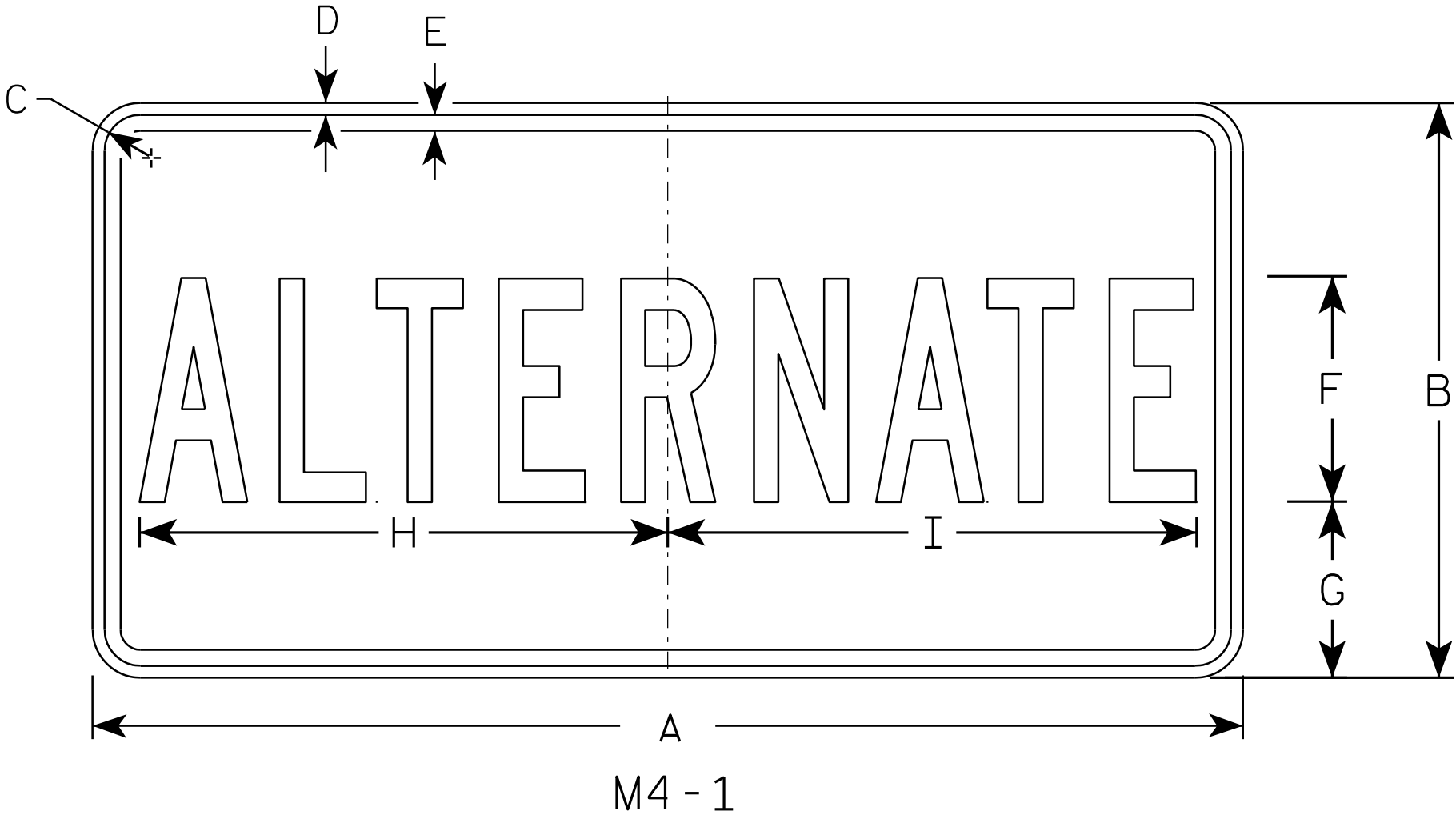
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

NOTES

1. Sign is Type II - See Note 5 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - See Note 5
Message - See note 5
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.
5. M4-1 Background - White - Type H Reflective
Message - Black
- MB4-1 Background - Blue
Message - White - Type H Reflective
- M04-1 Background - Orange - Reflective
Message - Black



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	4	4	9 3/4	9 1/2																		2.00
3	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5

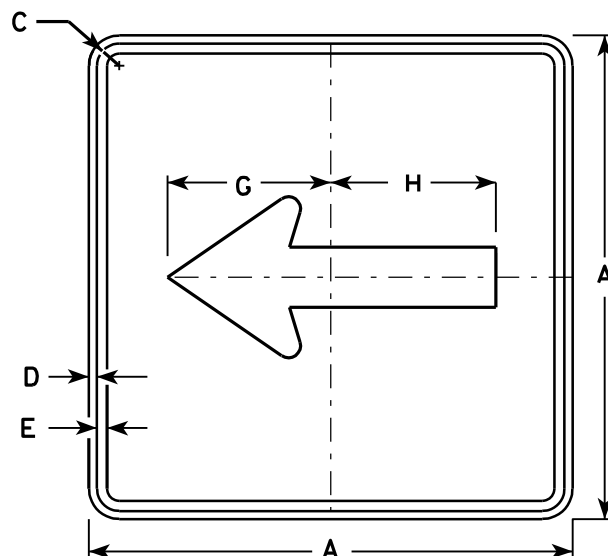
STANDARD SIGN
M4 - 1

WISCONSIN DEPT OF TRANSPORTATION

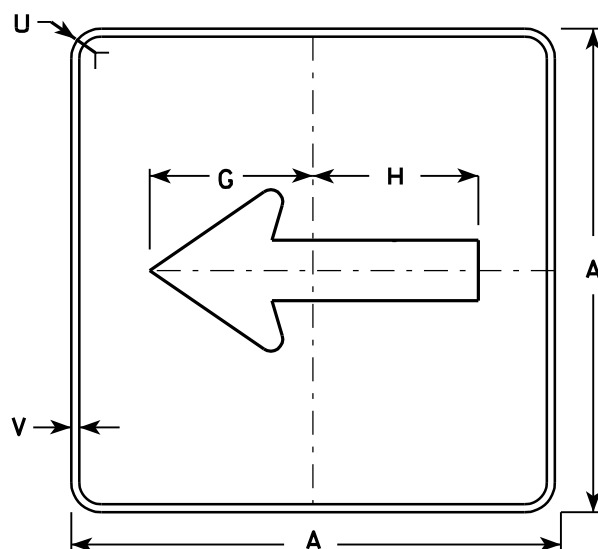
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-1.7

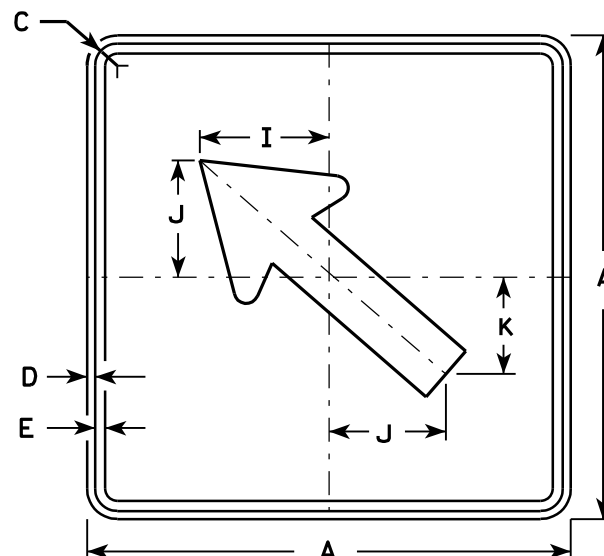
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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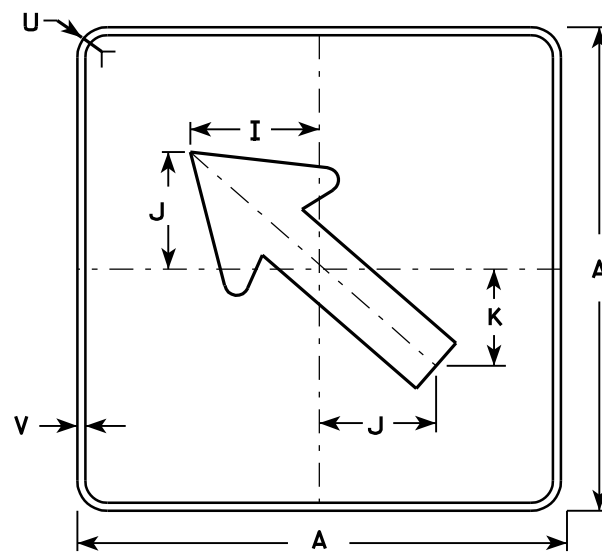
M6-1
MK6-1
MM6-1
MO6-1
MP6-1
MR6-1



MB6-1
MG6-1
MN6-1



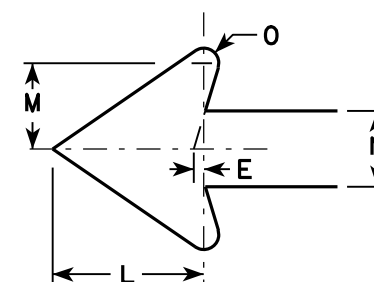
M6-2
MK6-2
MM6-2
MO6-2
MP6-2
MR6-2



MB6-2
MG6-2
MN6-2

NOTES

- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
 - Background - See note 4
 - Message - See note 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.
- M6-1 and M6-2 Background - White - Type H Reflective
Message - Black
 MB6-1 and MB6-2 Background - Blue
 Message - White - Type H Reflective
 MG6-1 and MG6-2 Background - Green
 Message - White - Type H Reflective
 MK6-1 and MK6-2 Background - Green
 Message - White - Type H Reflective
 MM6-1 and MM6-2 Background - White - Type H Reflective
 Message - Green
 MN6-1 and MN6-2 Background - Brown
 Message - White - Type H Reflective
 MO6-1 and MO6-2 Background - Orange - Type F Reflective
 Message - Black
 MP6-1 and MP6-2 Background - White - Type H Reflective
 Message - Blue
 MR6-1 and MR6-2 Background - Brown
 Message - Yellow - Type H Reflective



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	21		1 1/8	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 1/2	1/2					3.06
3	30		1 3/8	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 7/8	1/2					6.25
4	30		1 3/8	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 7/8	1/2					6.25
5	30		1 3/8	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 7/8	1/2					6.25

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M6-1.13

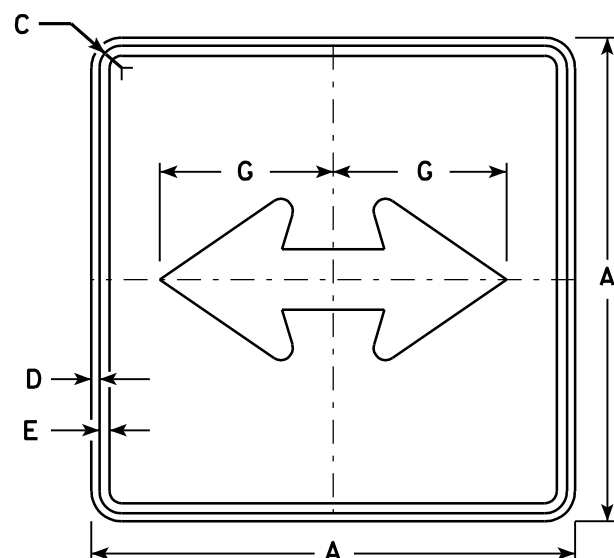
PROJECT NO:

HWY:

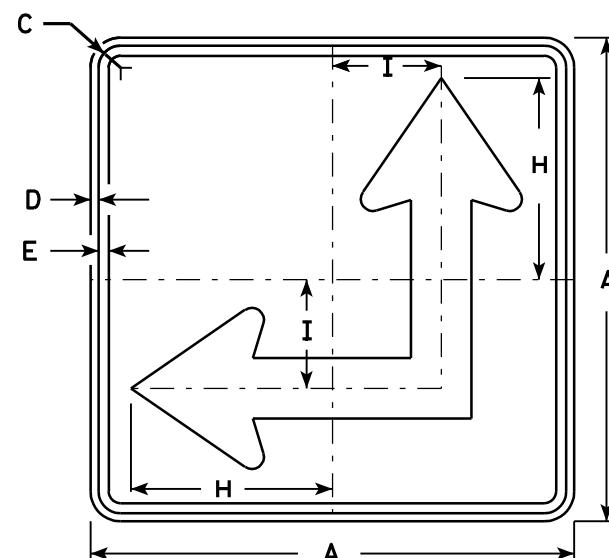
COUNTY:

SHEET NO:

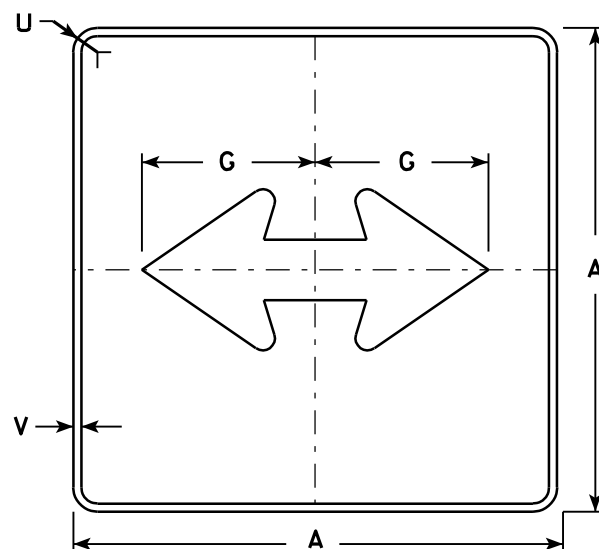
E



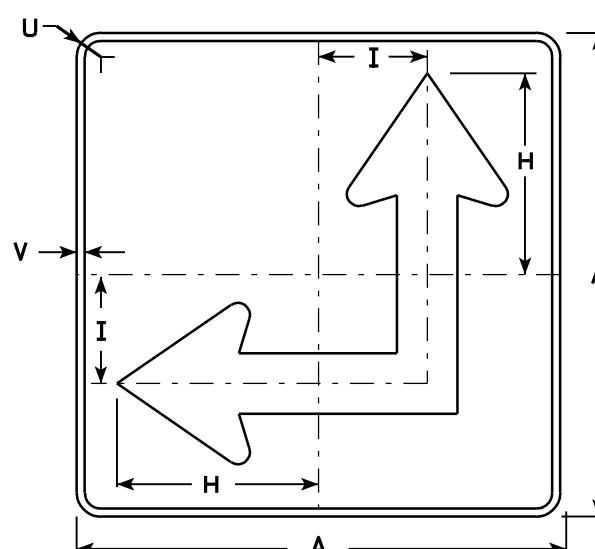
M6 - 4
MK6 - 4
MM6 - 4
MO6 - 4
MP6 - 4
MR6 - 4



M6 - 6
MK6 - 6
MM6 - 6
MO6 - 6
MP6 - 6
MR6 - 6



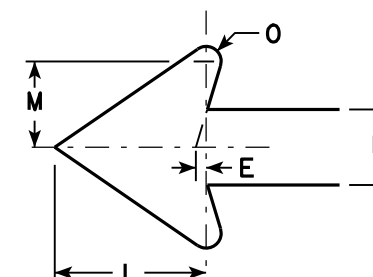
MB6 - 4
MG6 - 4
MN6 - 4



MB6 - 6
MG6 - 6
MN6 - 6

NOTES

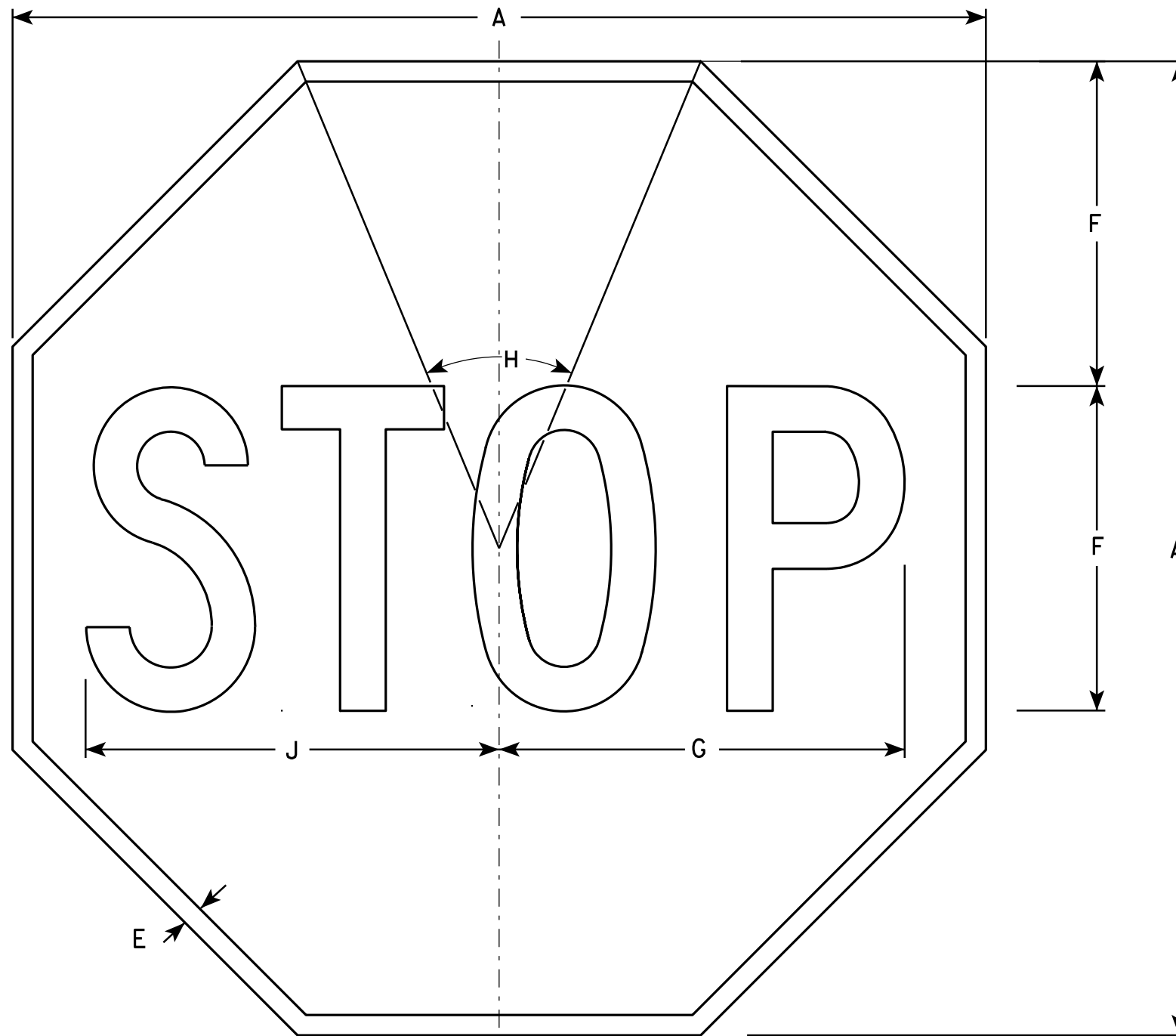
- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - See Note 4
Message - See Note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M6-4 and M6-6 Background - White - Type H Reflective
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White - Type H Reflective
MG6-4 and MG6-6 Background - Green
Message - White - Type H Reflective
MK6-4 and MK6-6 Background - Green
Message - White - Type H Reflective
MM6-4 and MM6-6 Background - White - Type H Reflective
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White - Type H Reflective
MO6-4 and MO6-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White - Type H Reflective
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow - Type H Reflective
- M6-6R same as M6-6L except arrow points ahead and right.



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	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN M6 - 4 & M6 - 6 SERIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 7/29/13	PLATE NO. M6-4.8

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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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

R1-1

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	24				3/8	8	10	45°		10 1/4																	3.31
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

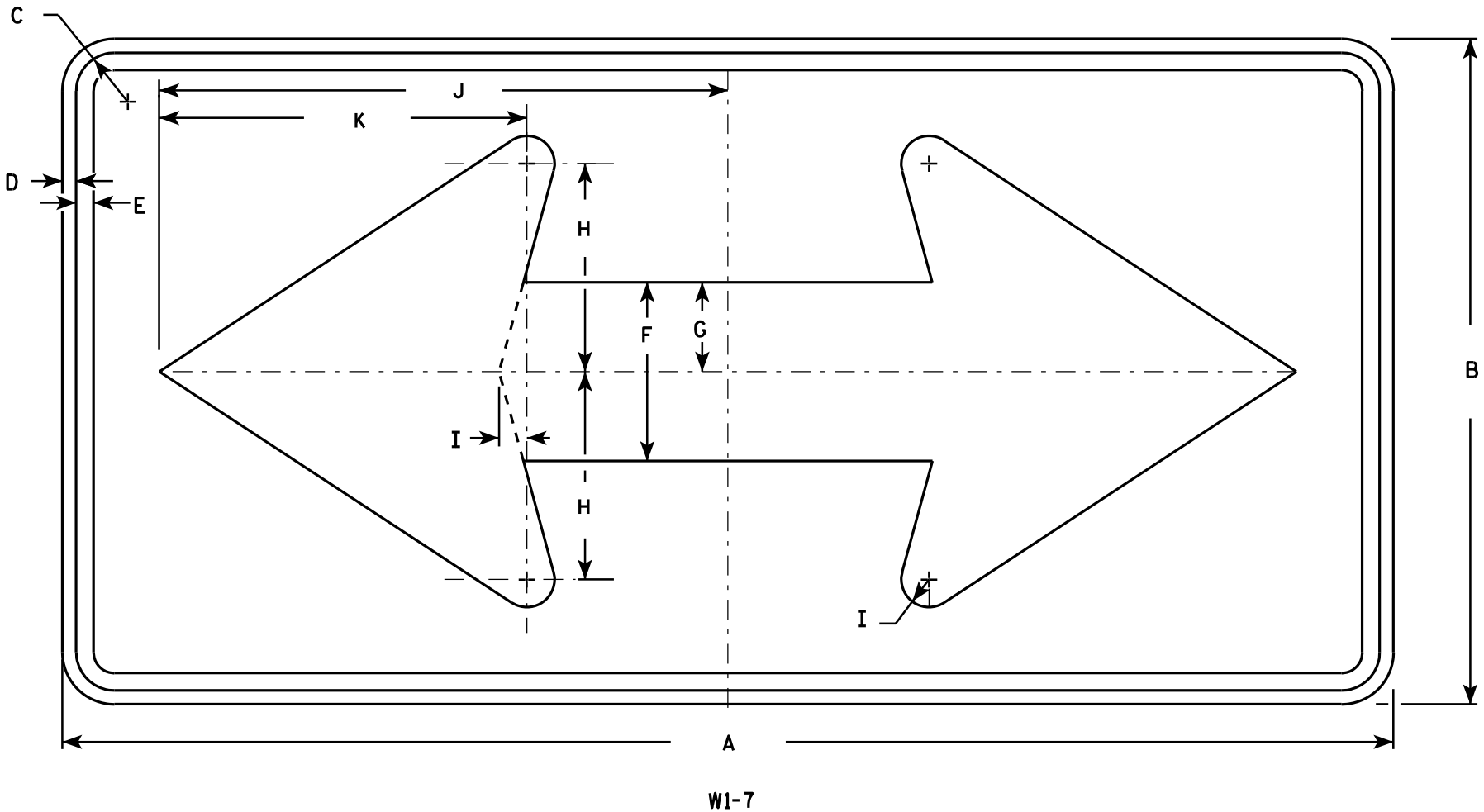
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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NOTES

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

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	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

STANDARD SIGN
W1 - 7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

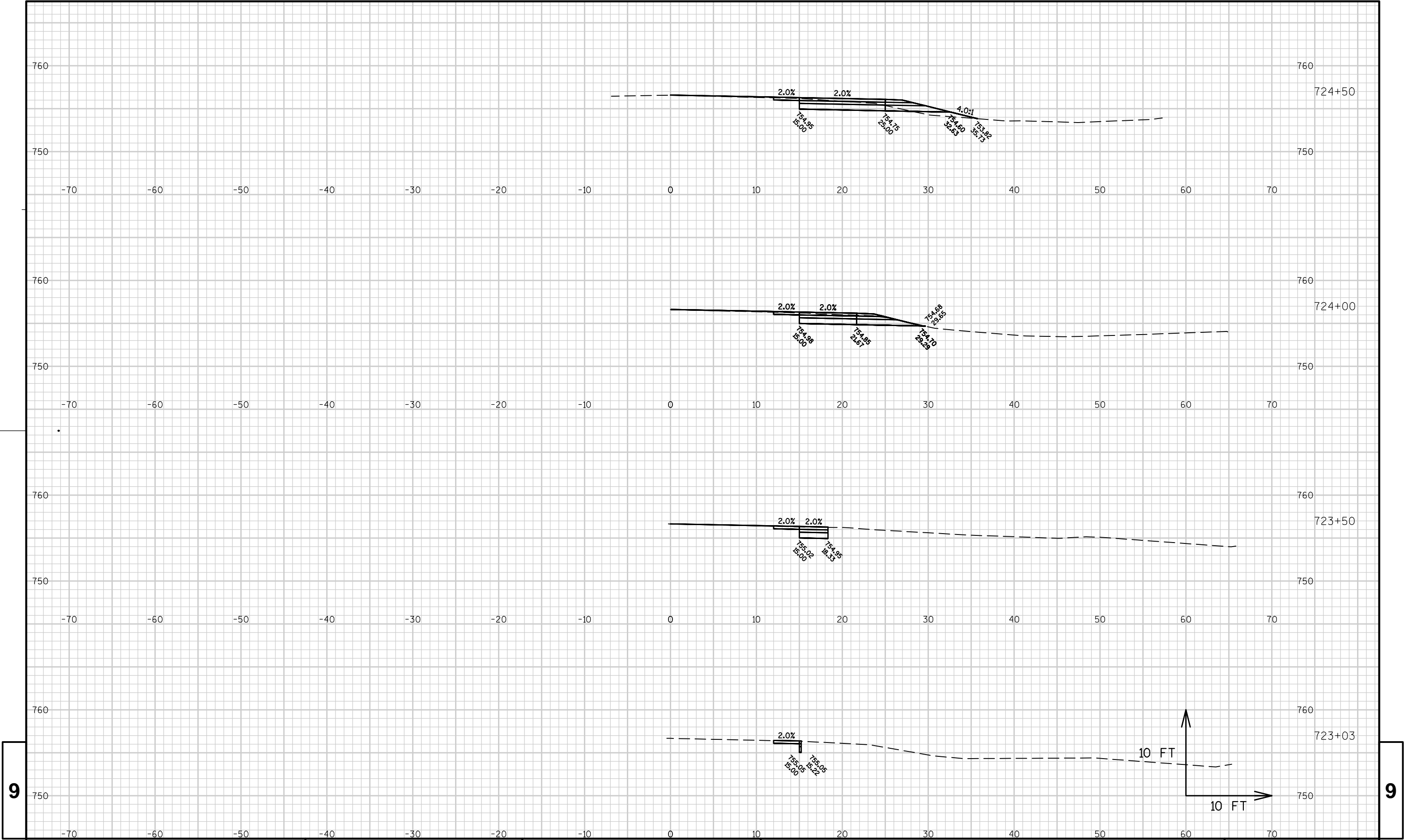
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STH 16 @ CTH DE INTERSECTION

STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							Mass Ordinate	
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh		Expanded EBS		Reduced Marsh in Fill 0.60 Note 6		Reduced EBS In Fill 0.80 Note 7
																	Backfill 1.50 Note 4	Expanded Rock 1.10	Backfill 1.30 Note 5				
723+00	72300.00	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
723+50	72350.00	50.00	6.22	0.00	0.00	0.00	0.00	0.00	8	0	0	0	0	0	8	0	0	0	0	0.00	0.00	7.51	
724+00	72400.00	50.00	15.07	0.00	0.01	0.00	0.00	0.00	20	0	0	0	0	0	27	0	0	0	0	0.00	0.00	27.21	
724+50	72450.00	50.00	12.71	0.00	2.37	0.00	0.00	0.00	26	0	2	0	0	0	53	3	0	0	0	0.00	0.00	50.18	
725+00	72500.00	50.00	13.16	0.00	3.32	0.00	0.00	0.00	24	0	5	0	0	0	77	9	0	0	0	0.00	0.00	67.55	
725+50	72550.00	50.00	13.21	0.00	2.37	0.00	0.00	0.00	24	0	5	0	0	0	101	16	0	0	0	0.00	0.00	85.38	
726+00	72600.00	50.00	13.95	0.00	2.43	0.00	0.00	0.00	25	0	4	0	0	0	126	21	0	0	0	0.00	0.00	104.97	
726+50	72650.00	50.00	14.17	0.00	2.65	0.00	0.00	0.00	26	0	5	0	0	0	152	27	0	0	0	0.00	0.00	125.13	
727+00	72700.00	50.00	14.97	0.00	2.16	0.00	0.00	0.00	27	0	4	0	0	0	179	33	0	0	0	0.00	0.00	146.54	
727+50	72750.00	50.00	13.84	0.00	3.38	0.00	0.00	0.00	27	0	5	0	0	0	206	39	0	0	0	0.00	0.00	166.79	
728+00	72800.00	50.00	14.28	0.00	3.37	0.00	0.00	0.00	26	0	6	0	0	0	232	47	0	0	0	0.00	0.00	185.03	
728+50	72850.00	50.00	12.79	0.00	0.00	0.00	0.00	0.00	25	0	3	0	0	0	257	51	0	0	0	0.00	0.00	206.20	
729+00	72900.00	50.00	14.95	0.00	4.55	0.00	0.00	0.00	26	0	4	0	0	0	283	56	0	0	0	0.00	0.00	226.60	
729+50	72950.00	50.00	15.02	0.00	0.96	0.00	0.00	0.00	28	0	5	0	0	0	311	63	0	0	0	0.00	0.00	247.98	
730+00	73000.00	50.00	18.26	0.00	0.00	0.00	0.00	0.00	31	0	1	0	0	0	341	64	0	0	0	0.00	0.00	277.68	
730+50	73050.00	50.00	11.31	0.00	7.99	0.00	0.00	0.00	27	0	7	0	0	0	369	73	0	0	0	0.00	0.00	295.82	
731+00	73100.00	50.00	14.99	0.00	0.15	0.00	0.00	0.00	24	0	8	0	0	0	393	82	0	0	0	0.00	0.00	310.74	
731+04	73104.00	4.00	19.02	0.00	7.04	0.00	0.00	0.00	3	0	1	0	0	0	396	83	0	0	0	0.00	0.00	312.60	

STH 16 @ CTH E INTERSECTION

AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)										Mass Ordinate
Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh		Expanded Rock 1.10	Expanded EBS		Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7		
														Backfill 1.50 Note 4	Backfill 1.30 Note 5							
0.00	0.00	0.00	0.00	0.00	0.00	0		0	0	0	0		0		0		0		0.00	0.00	0.00	
14.18	0.00	0.00	0.00	0.00	0.00	9	0	0	0	0	0	9	0	0	0		0	0	0.00	0.00	9.12	
13.92	0.00	1.02	0.00	0.00	0.00	26	0	1	0	0	0	35	1	0	0		0	0	0.00	0.00	33.95	
13.39	0.00	2.92	0.00	0.00	0.00	25	0	4	0	0	0	60	6	0	0		0	0	0.00	0.00	54.68	
16.29	0.00	3.08	0.00	0.00	0.00	27	0	6	0	0	0	88	13	0	0		0	0	0.00	0.00	75.22	
15.68	0.00	3.98	0.00	0.00	0.00	30	0	7	0	0	0	118	21	0	0		0	0	0.00	0.00	96.65	
15.01	0.00	3.90	0.00	0.00	0.00	28	0	7	0	0	0	146	30	0	0		0	0	0.00	0.00	115.94	
12.49	0.00	5.81	0.00	0.00	0.00	25	0	9	0	0	0	171	41	0	0		0	0	0.00	0.00	130.16	
13.78	0.00	6.00	0.00	0.00	0.00	24	0	11	0	0	0	196	55	0	0		0	0	0.00	0.00	140.81	
15.83	0.00	5.56	0.00	0.00	0.00	27	0	11	0	0	0	223	68	0	0		0	0	0.00	0.00	154.86	
17.08	0.00	1.03	0.00	0.00	0.00	30	0	6	0	0	0	254	76	0	0		0	0	0.00	0.00	177.71	
19.11	0.00	0.00	0.00	0.00	0.00	34	0	1	0	0	0	287	77	0	0		0	0	0.00	0.00	210.02	
17.62	0.00	0.00	0.00	0.00	0.00	34	0	0	0	0	0	321	77	0	0		0	0	0.00	0.00	244.04	
17.31	0.00	0.00	0.00	0.00	0.00	32	0	0	0	0	0	353	77	0	0		0	0	0.00	0.00	276.39	
14.81	0.00	0.00	0.00	0.00	0.00	30	0	0	0	0	0	383	77	0	0		0	0	0.00	0.00	306.13	
15.88	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	0	389	77	0	0		0	0	0.00	0.00	311.81	



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PROJECT NO: 7570-05-61

HWY: STH 16

COUNTY: LA CROSSE

CROSS SECTIONS: STH 16

SHEET

E

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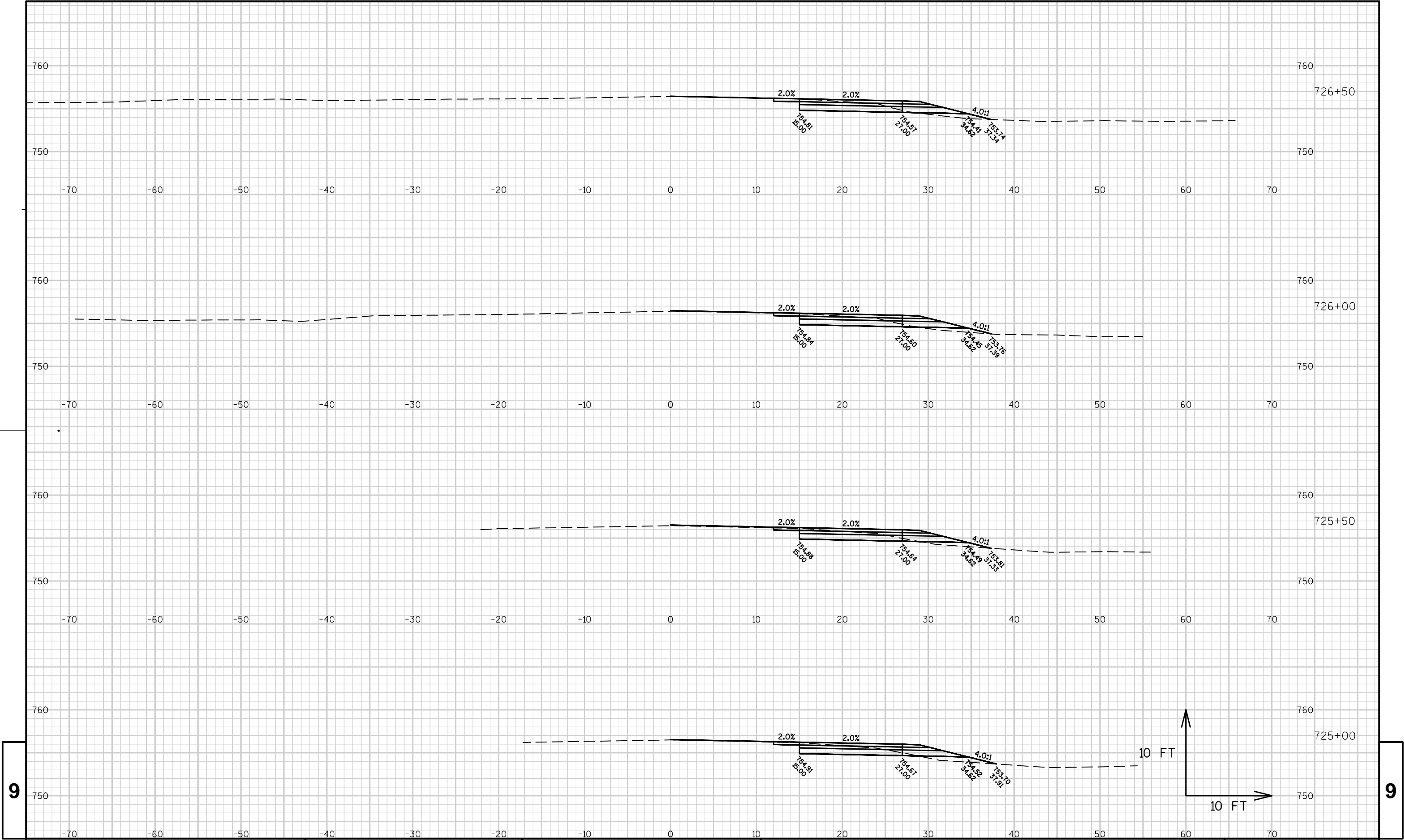
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PLOT BY : BALSIGER, LEE M

PLOT NAME :

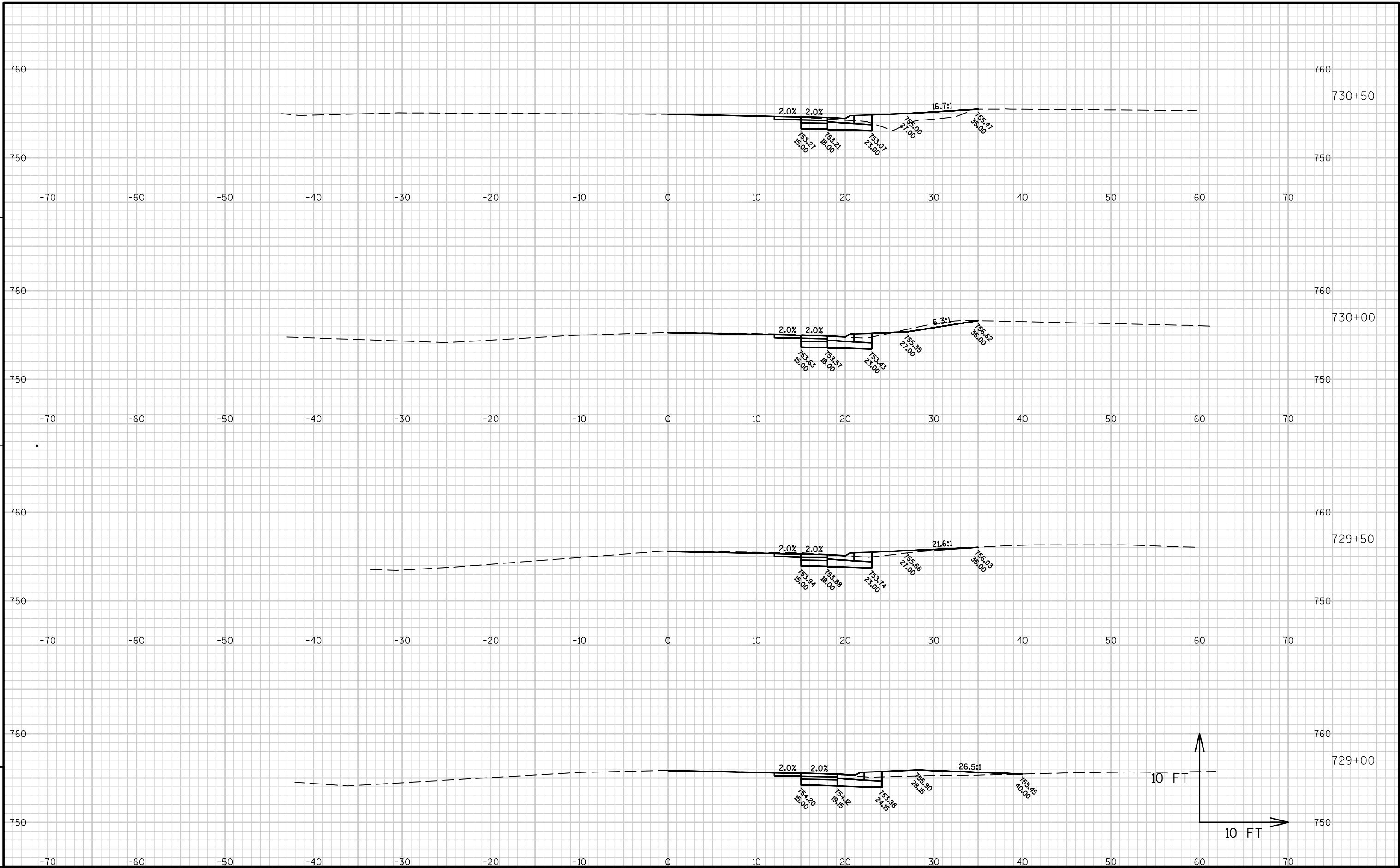
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WISDOT/CADDs SHEET 49



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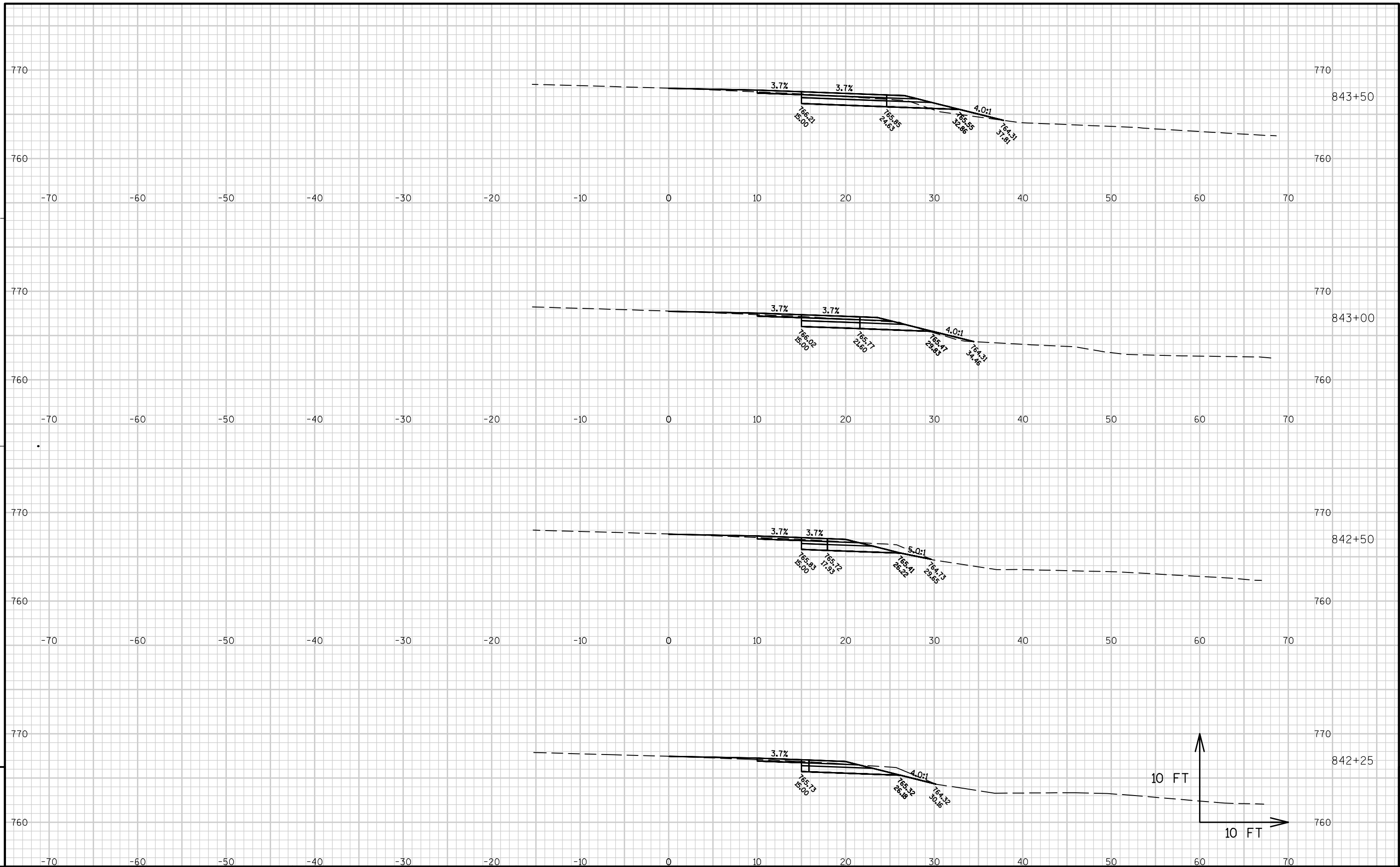
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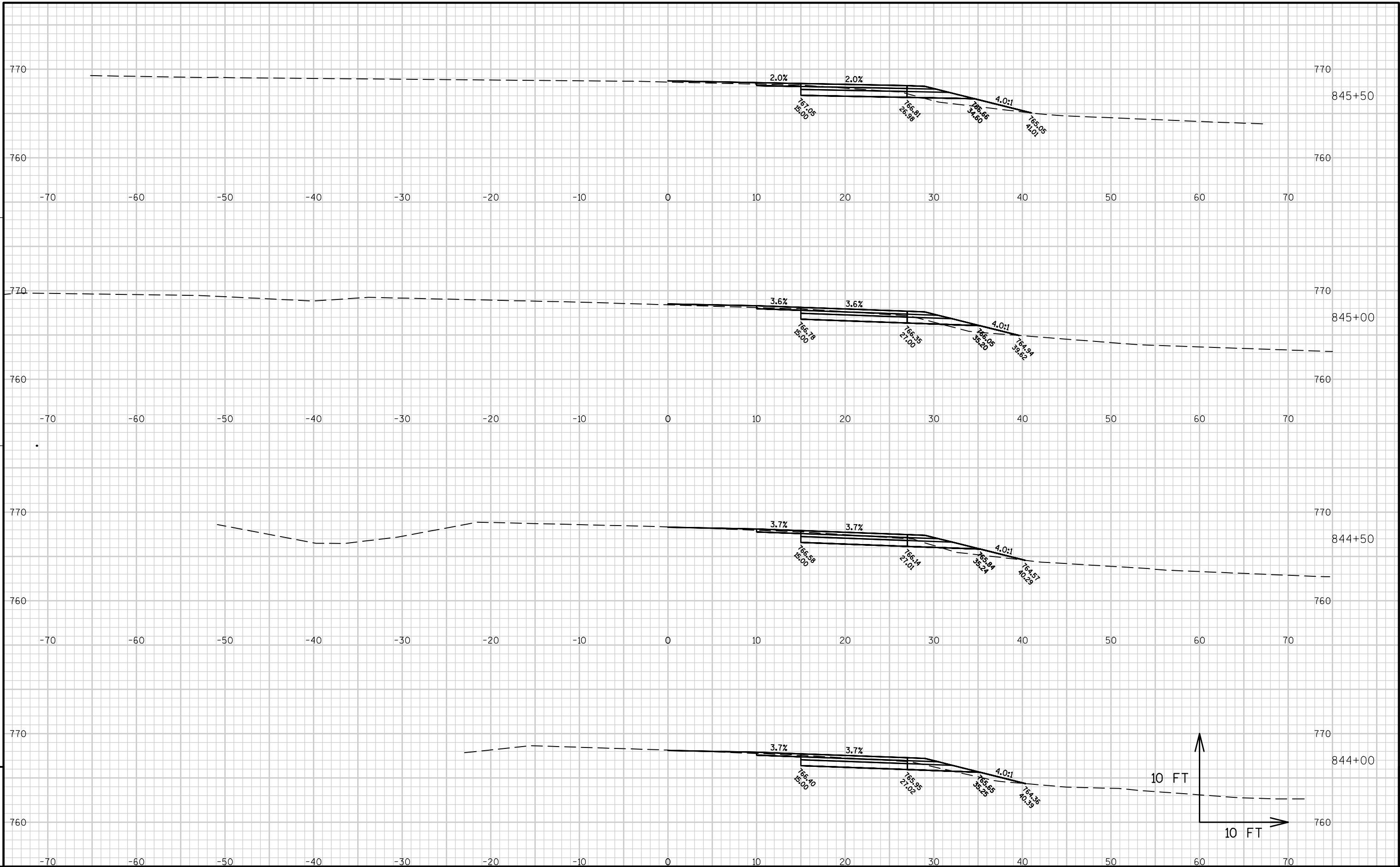


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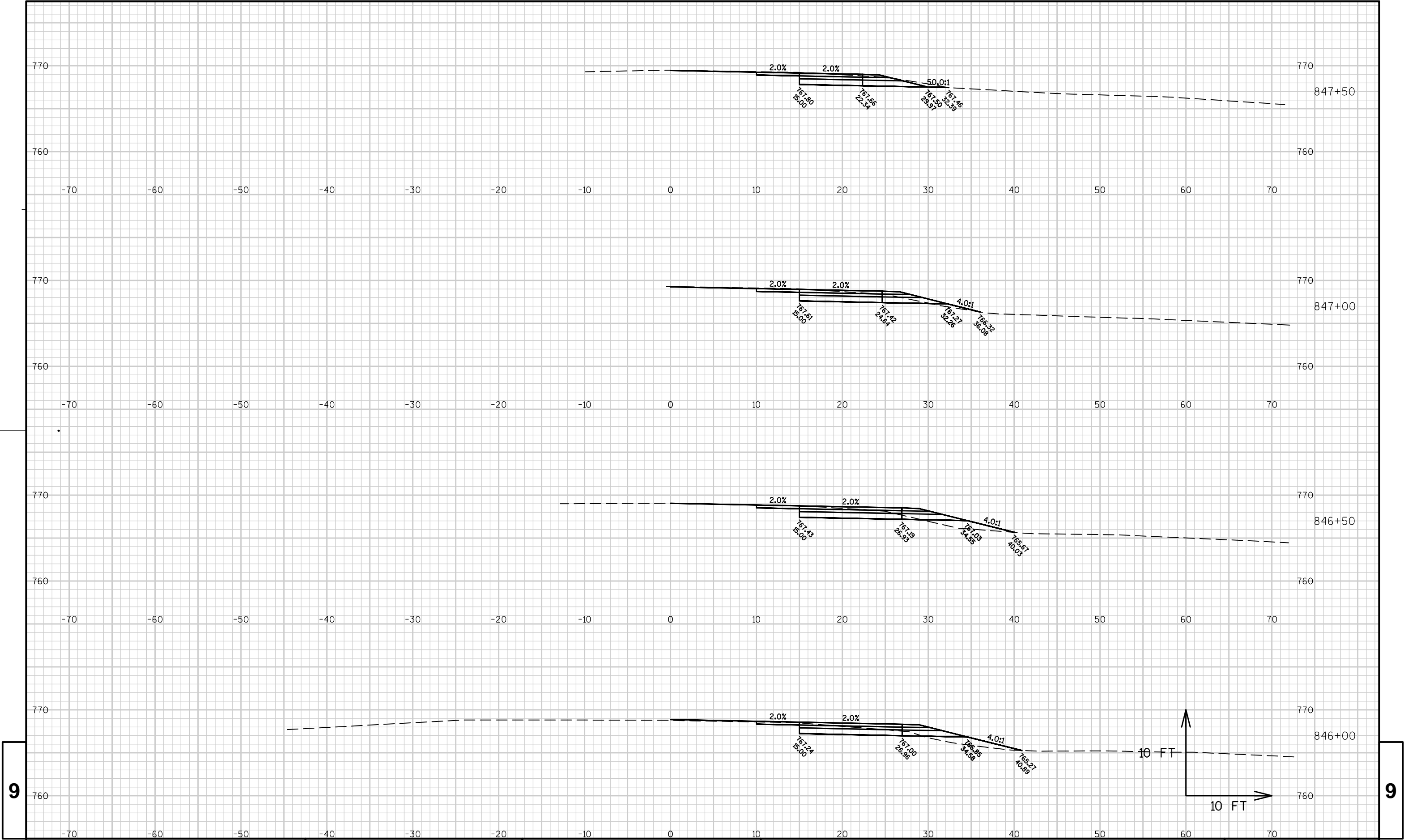
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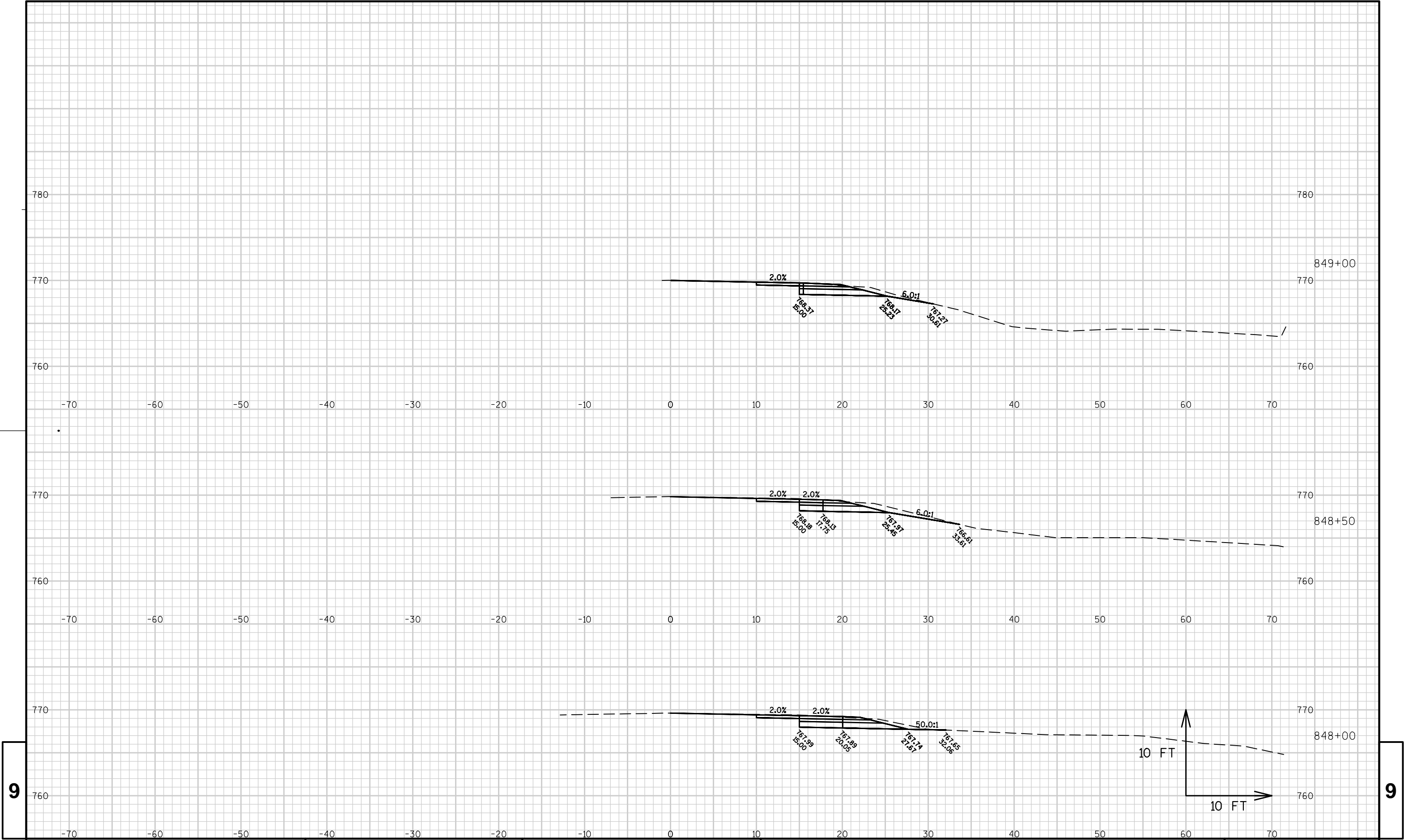
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PROJECT NO: 7570-05-61

HWY: STH 16

COUNTY: LA CROSSE

CROSS SECTIONS: STH 16

SHEET

E

FILE NAME : N:\PDS\C3D\75700531\SHEETS\PLAN\090100_XS.DWG

PLOT DATE : 1/15/2014 8:49 AM

PLOT BY : BALSIGER, LEE M

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDs SHEET 49



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Notes



Wisconsin Department of Transportation

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through innovation and exceptional service.

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