RHI

APR 2016

PROJECT ID: 9155-14-70

WITH:

COUNTY: LANGLADE

ORDER OF SHEETS

TOTAL SHEETS = 132

37

N

DESIGN DESIGNATION STH 55

A.A.D.T.	2014	=	830
A.A.D.T.	2034	=	1000
D.H.V.		=	-
D.D.		=	-
T.		=	12.8%
DESIGN SPEED		=	55 MPH
ESALS		=	255,500

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 (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

PICKEREL - ARGONNE

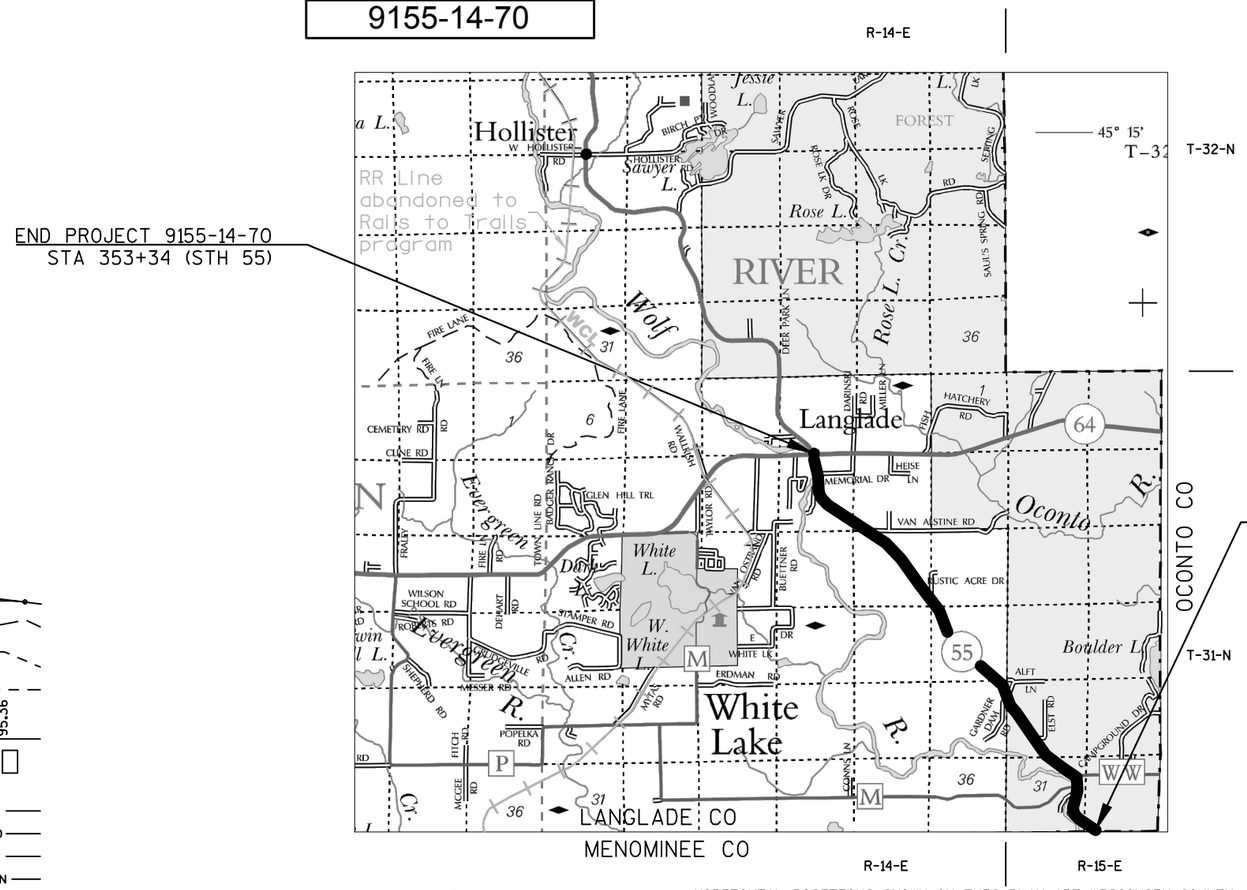
SOUTH COUNTY LINE TO STH 64

STH 55

LANGLADE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9155-14-70	WISC 2016201	1

STATE PROJECT NUMBER
9155-14-70



LAYOUT
SCALE 0 1 mi

TOTAL NET LENGTH OF CENTERLINE = 6.63

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, LANGLADE COUNTY, NAD83 (1991), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AL OLENIK
Designer	TED SMITH
Project Manager	DAN ERVA
Regional Examiner	CHERYL SIMON
Regional Supervisor	ROBIN STAFFORD
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 1/22/16 (Signature)

E

GENERAL NOTES

1. WHEN THE QUANTITY OF THE ITEM HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE & THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION ON THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

3. NOT ALL UTILITIES ARE PART OF DIGGERS HOTLINE AND WILL NEED TO BE CONTACTED DIRECTLY.

4. LENGTHS OF TRANSITIONS SHALL BE COMPUTED WITH TWO–THIRDS OF THE RUNOFF ON THE TANGENT APPROACH AND ONE–THIRD WITHIN THE CURVE. SEE PLAN FOR RATE OF THE SUPERELEVATION AND RELATED DATA. ST IS THE SUPERELEVATION TRANSITION LENGTH. RO IS THE LENGTH OF RUNOFF.

5. PERMANENT SIGNING STATIONING WAS CALCULATED FROM THE PHOTOLOG & MAY BE PLUS OR MINUS 75 FEET.

6. SIDE ROAD STATIONING IN PLAN IS APPROXIMATE. SIDE ROAD STATIONING IS BASED ON AS–BUILTS.

7. PRESENCE OF CRACK FILLED MATERIAL CONTAINING RUBBER ADDITIVE MAY STILL BE PRESENT AFTER MILLING. RUBBER CRACK FILL MATERIAL MUST BE REMOVED AS SPECIFIED IN PREPERATION OF FOUNDATION FOR ASPHALTIC PAVING.

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

CONTACTS

DEPARTMENT OF NATURAL RESOURCES
NORTH CENTRAL DISTRICT 107 SUTLIFF
AVENUE RHINELANDER, WI. 54501 JON
SIMONSEN 715–365–8916

ALLIANT ENERGY – ELECTRICITY
708 N.E. 7TH STREET
MARION, WI 54950
DAVE BERTRAM
715–754–4323
715–903–0173 MOBILE

FRONTIER COMMUNICATIONS OF WI
1851 N. 14TH AVENUE
WAUSAU, WI 54401
CALVIN KLADE
715–847–1525

WISCONSIN PUBLIC SERVICE CORP – GAS
1505 STATE ROAD 32
WABENO, WI 54566
ROBERT SMITH
715–473–7809
920–606–6465 MOBILE

AS–BUILT PLANS USED

T–0188(1)

T–0188(2)

T–0188(3)

7094

9081–04–60

9140–10–60

BORING LOG DATA

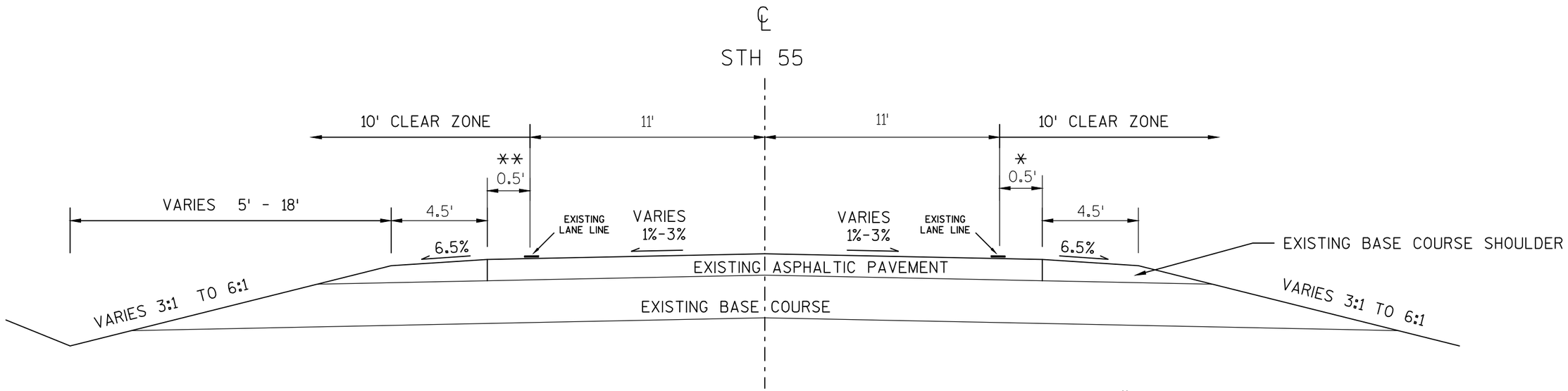
STATION (*)	OFFSET FROM C/L	BORING LOG BORING NUMBER	ASPHALT THICKNESS (INCHES)	BASE AGGREGATE THICKNESS (INCHES)
8+35	6' LT	D1	6	12
23+75	6.5' RT	D2	7	4.5
37+50	7' LT	D3	7.75	10
51+90	6' RT	D4	6	8
66+20	6.5' LT	D5	6	10.5
79+30	6' RT	D6	5.5	5.5
94+75	4.5 LT	D7	5.5	0
109+35	6' RT	D8	7	0
120+90	5.5' LT	D9	4	10
132+45	4.5' RT	D10	7.5	0
147+45	5.5' LT	D11	4.5	7.5
160+05	5.5' RT	D12	8	10
176+80	6' LT	D13	8	6
188+15	6' RT	D14	7	8
203+75	4.5' LT	D15	8.75	8
219+40	6' RT	D16	7	7
231+00	5' LT	D17	8	6
246+10	4.5' RT	D18	6.5	7.5
260+90	4' LT	D19	9.5	4
272+40	6' RT	D20	10	4.5
287+15	4.5' LT	D21	8.75	5
302+20	5' RT	D22	9.75	4.5
314+95	5' LT	D23	8	8
329+30	6' RT	D24	7	8.5
344+20	4' LT	D25	9.5	9

(*) NOTE: STATION ACCURACY +/– 100'

BORING LOG DATA OCTOBER 2013

GENERAL NOTES

USE THESE SIGNS AS NEEDED AND DIRECTED BY THE ENGINEER.



* VARIES

7'	STA 10+50 RT - STA 37+40 RT
2'	STA 37+40 RT - STA 51+25 RT
13'	STA 51+25 RT - STA 53+80 RT
1.5'	STA 53+80 RT - STA 57+75 RT

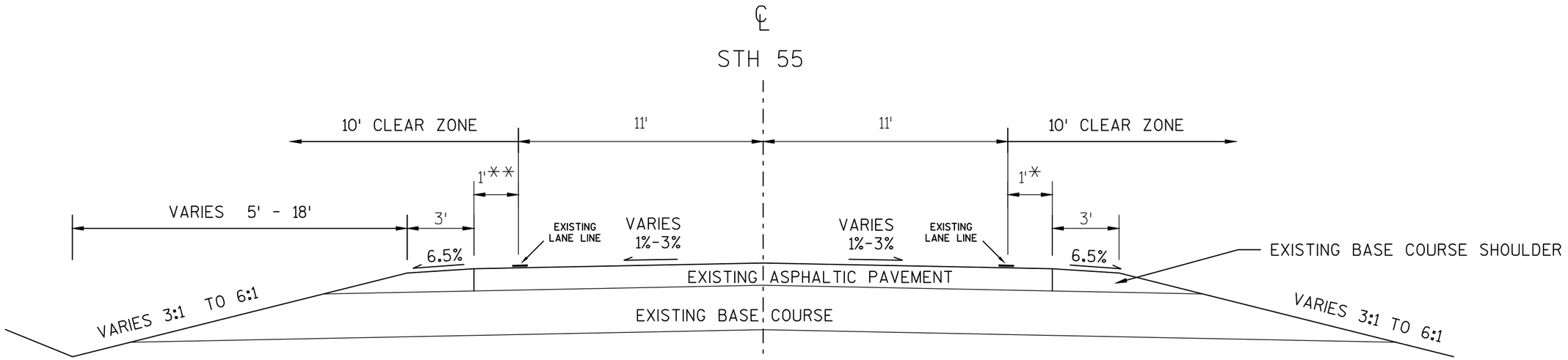
** VARIES

1'	STA 37+40 LT - STA 46+90 LT
6.5'	STA 46+90 LT - STA 53+80 LT
5'	STA 53+80 LT - STA 56+50 LT

EXISTING TYPICAL SECTION

STATION 3+60 - STA 148+00

2



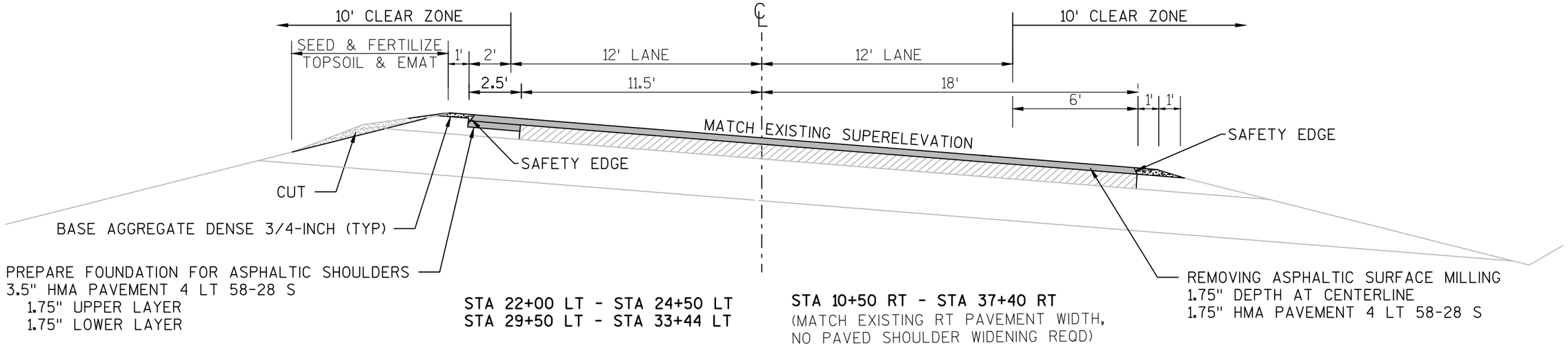
* VARIES
4' STA 317+00 RT - STA 331+00 RT
8' STA 337+50 RT - STA 339+00 RT
13' STA 351+80 RT - STA 353+34 RT

** VARIES
3' STA 317+00 LT - STA 331+00 LT

EXISTING TYPICAL SECTION

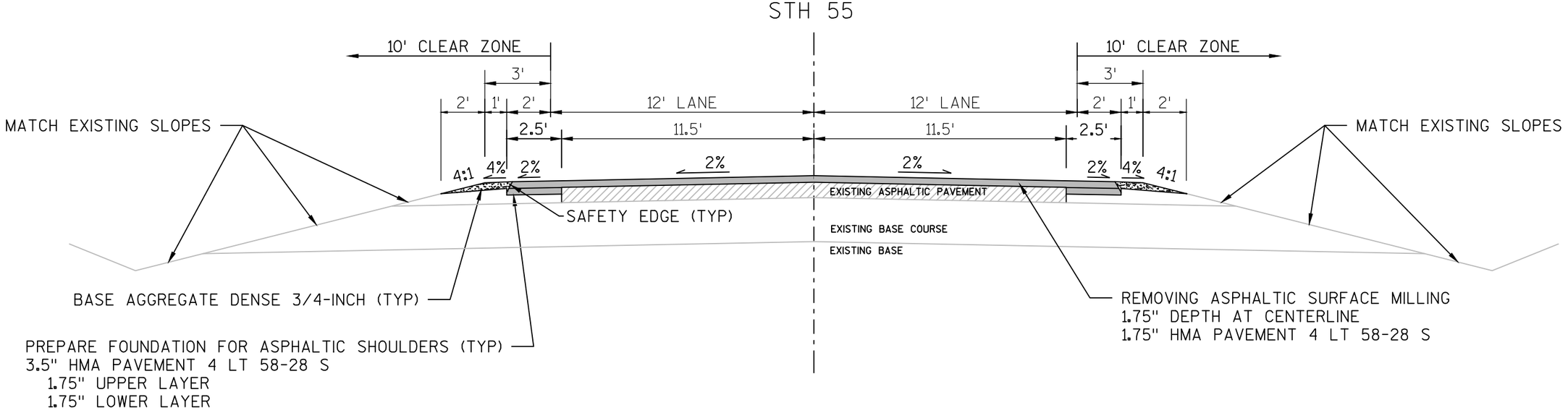
STATION 148+00 - STA 353+34

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	TYPICAL SECTIONS	SHEET 4	E



STA 22+00 LT - STA 24+50 LT
STA 29+50 LT - STA 33+44 LT

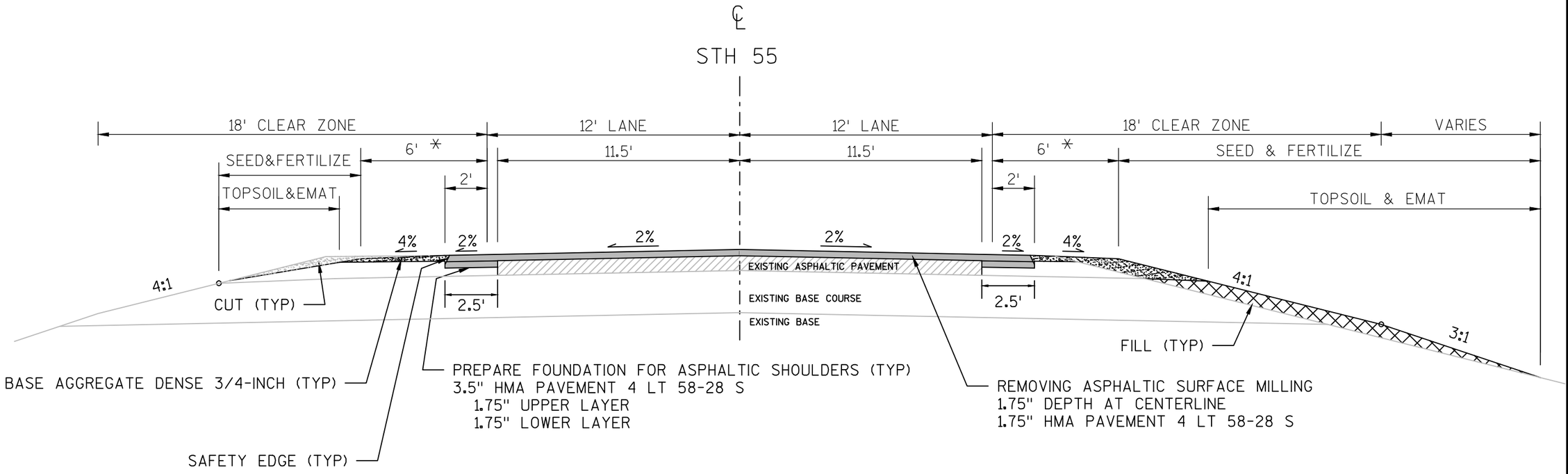
STA 10+50 RT - STA 37+40 RT
(MATCH EXISTING RT PAVEMENT WIDTH,
NO PAVED SHOULDER WIDENING REQD)



PROPOSED TYPICAL SECTION

STA 3+60 - STA 130+00
STA 134+00 - STA 148+00

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	TYPICAL SECTIONS	SHEET 5	E

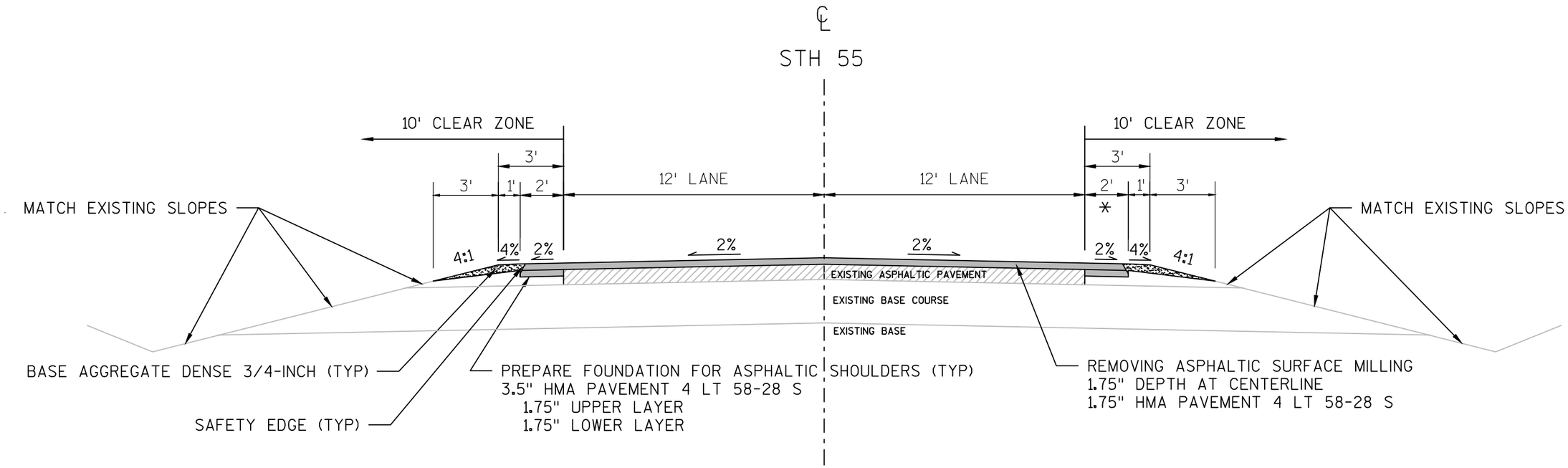


* TAPERS FROM 3' TO 6' FROM STA 130+00 TO 131+00
TAPERS FROM 6' TO 3' FROM STA 133+00 TO 134+00

PROPOSED TYPICAL SECTION

STA 130+00 - STA 134+00

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	TYPICAL SECTIONS	SHEET 6	E



* STA 351+80 RT - STA 353+34 RT
MATCH EXISTING PAVEMENT WIDTH (12' + 12')

STA 337+50 RT - STA 339+00 RT
MATCH EXISTING PAVEMENT WIDTH (12' + 7')

PROPOSED TYPICAL SECTION

STA 148+00 - STA 314+48
STA 332+16 - STA 353+34

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	TYPICAL SECTIONS	SHEET 7	E

2

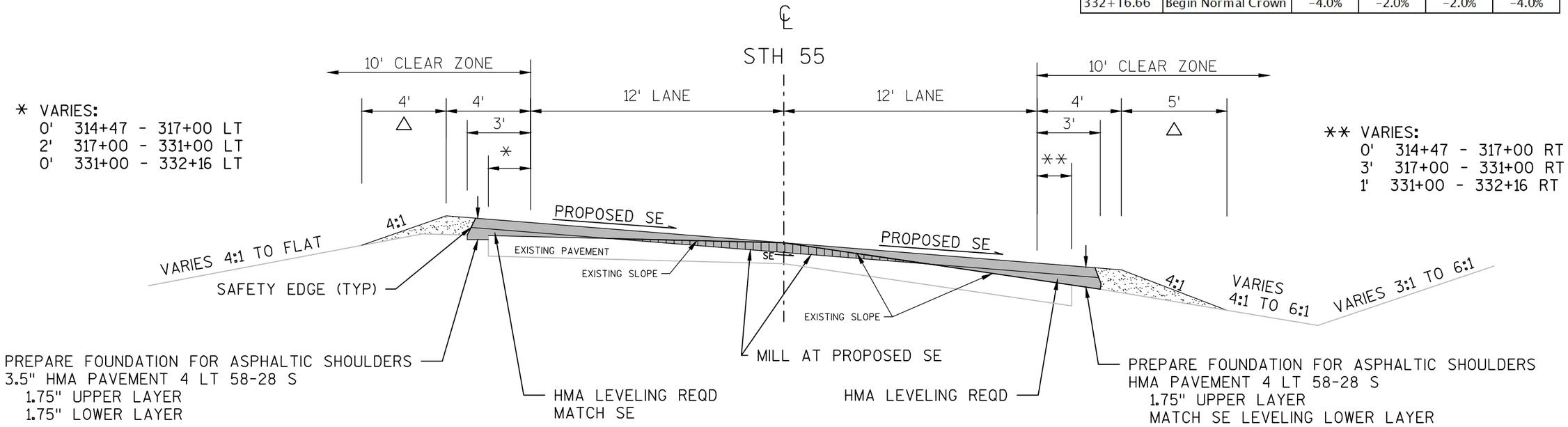
REMOVING ASPHALTIC SURFACE MILLING
(1.75" DEPTH AT CENTERLINE, MILL AT NEW SE SLOPE)

HMA PAVEMENT 4 LT 59-28 S
(1.75" UPPER LAYER, VARIABLE THICKNESS LEVELING LOWER LAYER)

BASE AGGREGATE DENSE 3/4-INCH

△ SEED AND FERTILZE

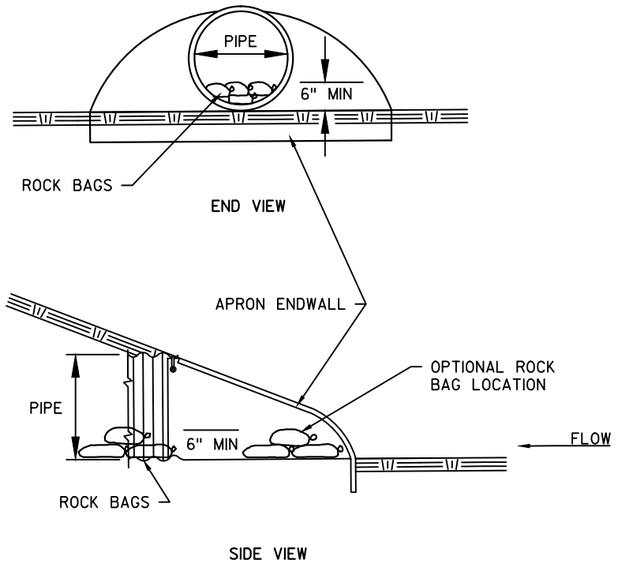
SUPERELEVATION TABLE					
STATION	DESCRIPTION	LT SHOULDER	LT LANE	RT LANE	RT SHOULDER
314+47.58	End Normal Crown	-4.0%	-2.0%	-2.0%	-4.0%
314+73.20		-2.0%	-1.0%	-1.0%	-4.0%
314+98.81	Level Crown	0.0%	0.0%	-2.0%	-4.0%
314+24.43		1.0%	1.0%	-1.0%	-4.0%
315+50.04	Reverse Crown	2.0%	2.0%	-2.0%	-4.0%
315+73.10		3.0%	3.0%	-3.0%	-4.0%
315+96.15	PC	4.0%	3.8%	-3.8%	-4.0%
316+01.27	Low Shoulder Match	4.0%	4.0%	-4.0%	-4.0%
316+23.04		5.0%	5.0%	-5.0%	-5.0%
316+44.81	Begin Full Super	5.7%	5.7%	-5.7%	-5.7%
330+19.44	End Full Super	5.7%	5.7%	-5.7%	-5.7%
330+41.21		5.0%	5.0%	-5.0%	-5.0%
330+62.98	Low Shoulder Match	4.0%	4.0%	-4.0%	-4.0%
330+68.10	PT	4.0%	3.8%	-3.8%	-4.0%
330+91.16		3.0%	3.0%	-3.0%	-3.0%
331+14.21	Reverse Crown	2.0%	2.0%	-2.0%	-4.0%
331+39.83		1.0%	1.0%	-1.0%	-4.0%
331+65.44	Level Crown	0.0%	0.0%	-2.0%	-4.0%
331+91.05		-2.0%	-1.0%	-1.0%	-4.0%
332+16.66	Begin Normal Crown	-4.0%	-2.0%	-2.0%	-4.0%



PROPOSED TYPICAL SECTION

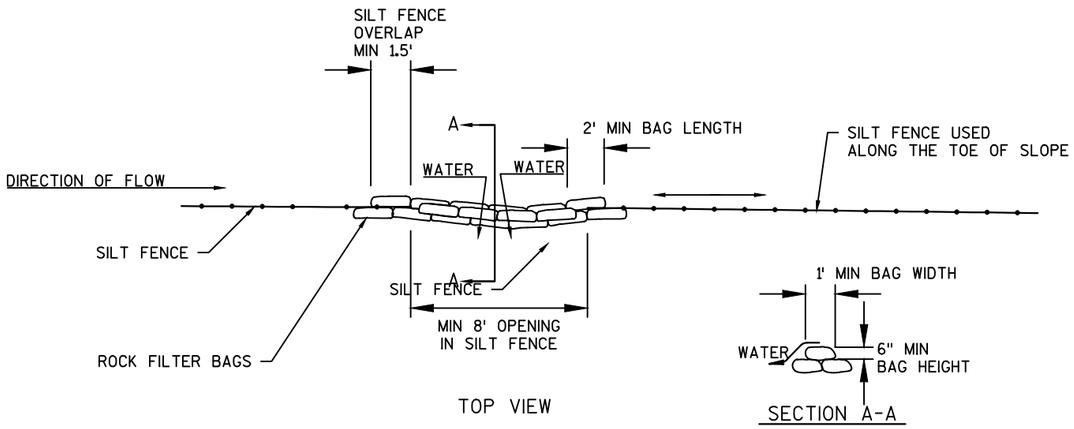
STA 314+48 - STA 332+16

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	TYPICAL SECTIONS	SHEET 8	E

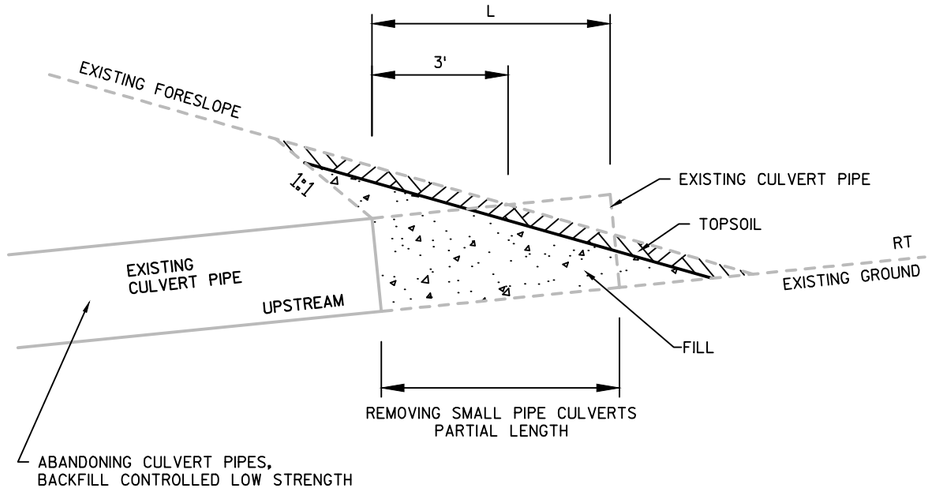


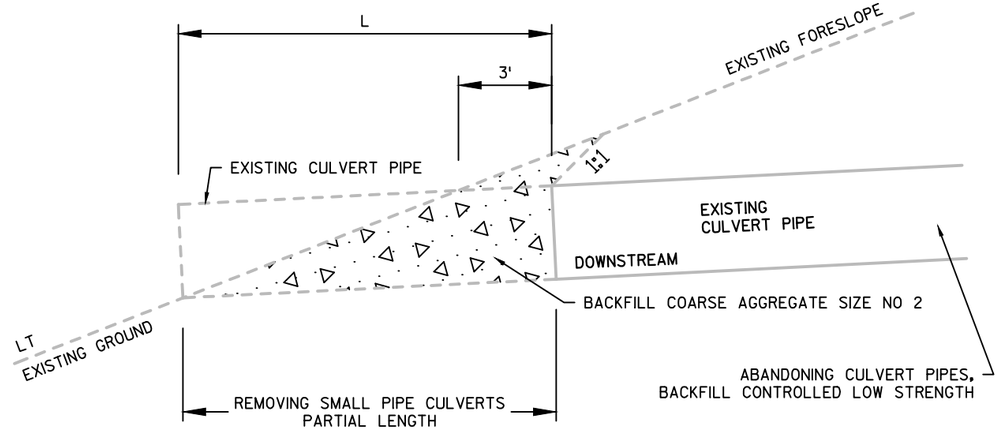
CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)



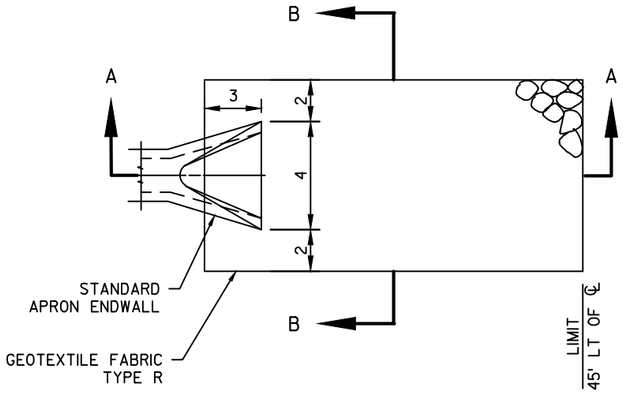
ROCK BAGS USED FOR SILT FENCE RELIEF

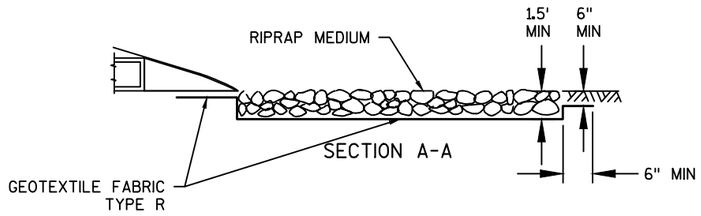




REMOVING SMALL PIPE CULVERTS
PARTIAL LENGTH

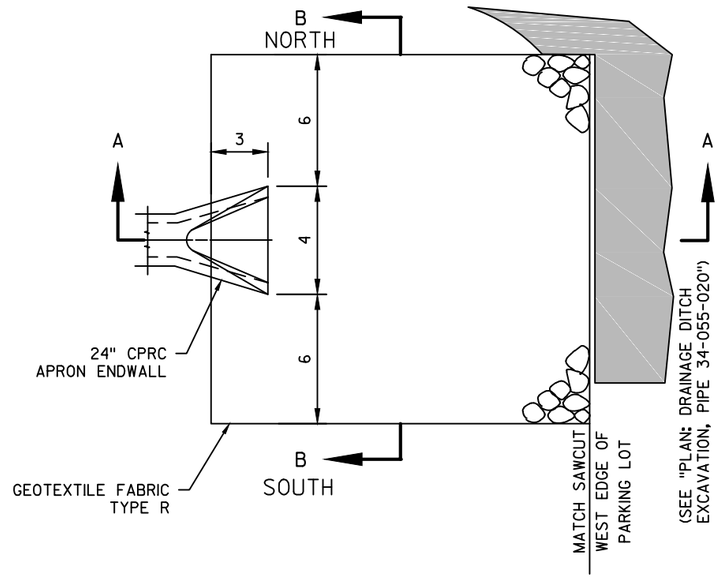
			L
STA 49+34	LT (18" DIA PIPE)	DOWNSTREAM	5'
STA 49+53	LT (24" DIA PIPE)	DOWNSTREAM	23'
STA 49+53	RT (24" DIA PIPE)	UPSTREAM	5'

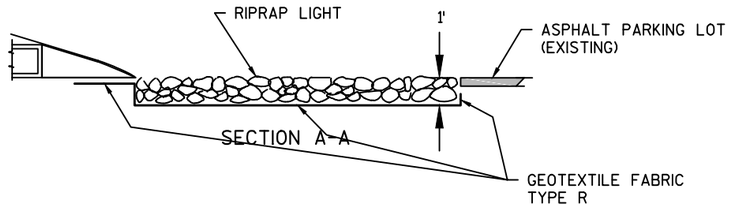


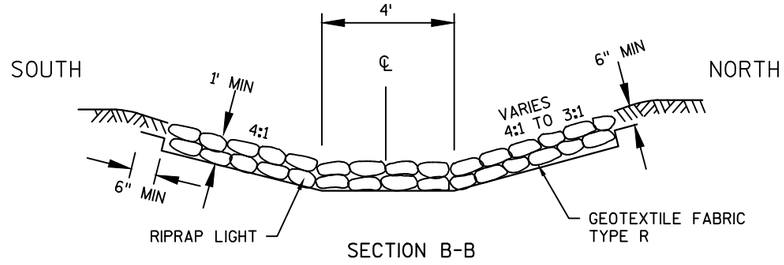


RIP RAP AND GEOTEXTILE FABRIC

STA 49+58 LT



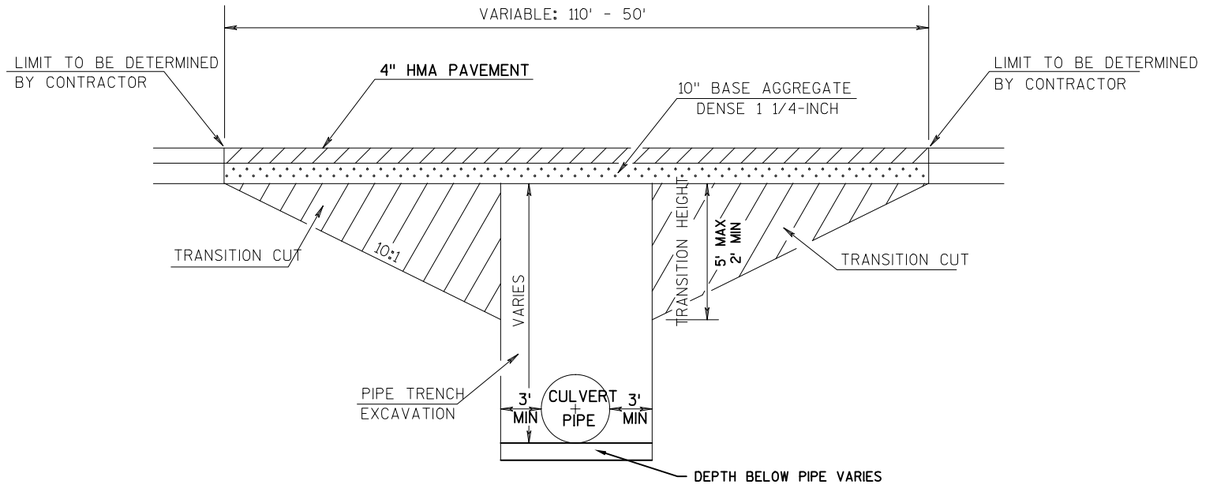




RIP RAP AND GEOTEXTILE FABRIC

STA 338+54 RT
(CULVERT 34-055-020, EAST END)

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PLAN: CONSTRUCTION DETAIL	SHEET 10	E



LOCATIONS	CULVERT ID *	SIZE	TRANSITION HEIGHT	LENGTH OF TRANSITION CUT	CUT VOLUME
STA 49+58	34-055-004	24"	5'	110'	284 CY
STA 132+02	C-34-11	53"x83"HE	5'	110'	328 CY
STA 338+58	34-055-020	24"	2.7'	64'	85 CY

CULVERT PIPE TRANSITION

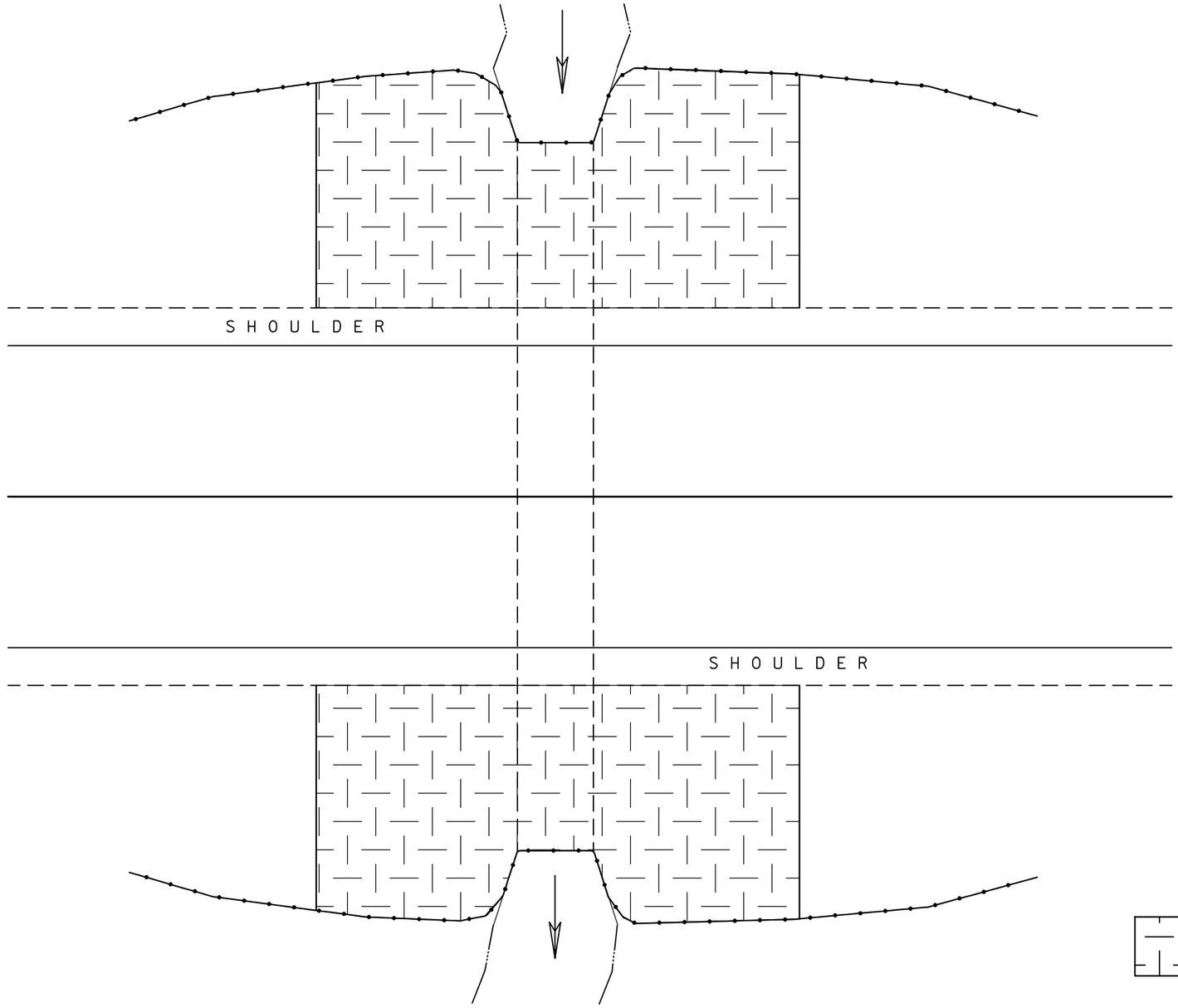
NOTE: REUSE MATERIAL REMOVED IN TRANSITION CUT AND PIPE TRENCH EXCAVATIONS AS BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER TO USE BACKFILL GRANULAR

PIPE TRENCH EXCAVATION, EXCLUDING TRANSITION CUT IS CONSIDERED INCIDENTAL TO PIPE INSTALLATION. TRANSITION CUT WILL BE PAID FOR AS CULVERT PIPE TRANSITION.

TRANSITION CUT WILL BE TO EDGE OF SHOULDER ON EACH SIDE OF CENTERLINE.

COMPLETE PIPE TRANSITION THROUGH ASPHALTIC SURFACE PATCHING PRIOR MILLING AND OVERLAYING OF EXISTING PAVEMENT.

2



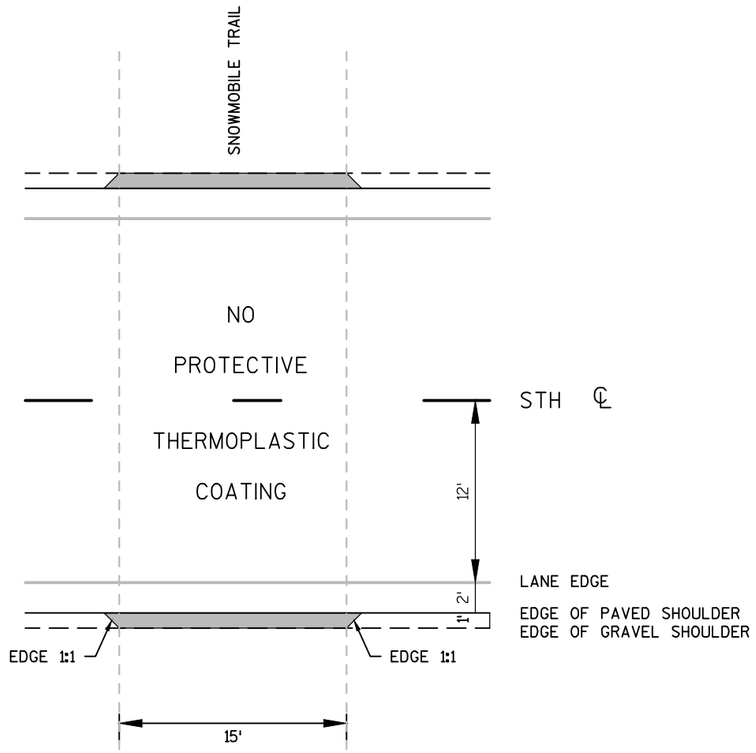
EMAT, TOPSOIL, FERTILIZER, & SEED

SILT FENCE

DETAIL FOR EROSION CONTROL AT CULVERT PIPES

STA 49+59 LT&RT
STA 132+02 LT&RT
STA 338+58 LT&RT

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PLAN: CONSTRUCTION DETAIL	SHEET 12	E

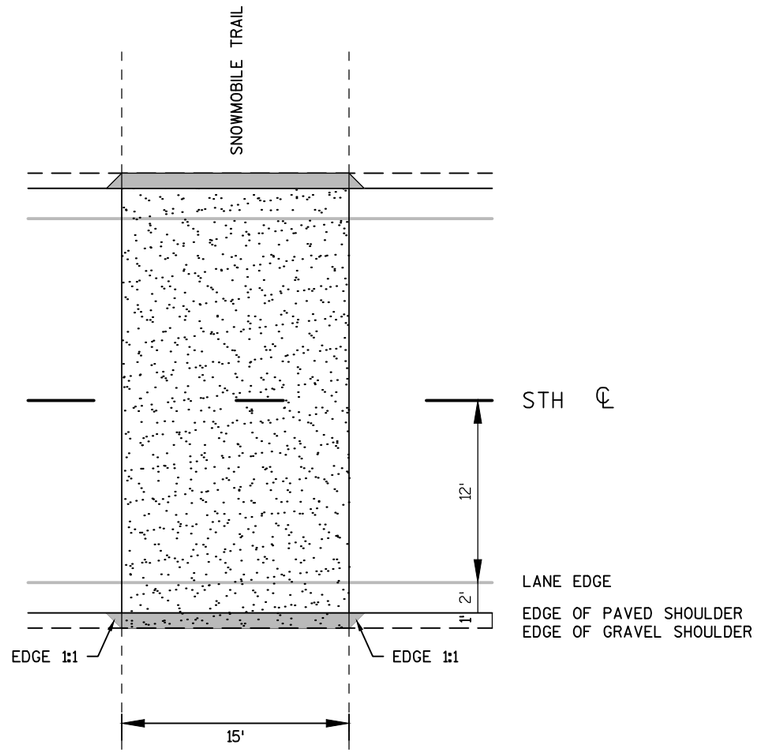


HMA PAVEMENT WIDENING
3.5-INCHES FOR SNOWMOBILE TRAIL CROSSING

NOTE: PREPARATION FOR PAVEMENT WIDENING FALLS UNDER PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

PAVING FULL WIDTH SHOULDERS AT SNOWMOBILE TRAIL CROSSING

STA 19+25



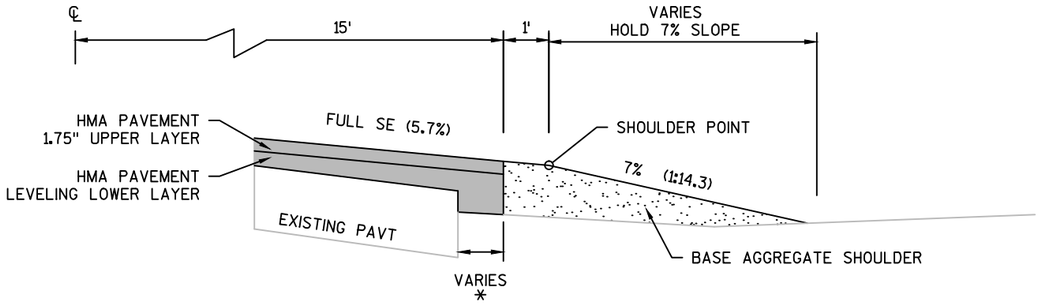
PROTECTIVE THERMOPLASTIC COATING
AT SNOWMOBILE TRAIL CROSSING

HMA PAVEMENT WIDENING
3.5-INCHES FOR SNOWMOBILE TRAIL CROSSING

NOTE: PREPARATION FOR PAVEMENT WIDENING FALLS UNDER PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

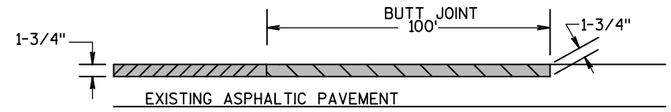
SNOWMOBILE TRAIL CROSSING
WITH FULL WIDTH SHOULDERS AND PROTECTIVE COATING

STA 349+30



CE DRIVEWAY

STA	315+70	RT	(*: 2')
STA	317+95	RT	(*: 0')



1-3/4" HMA PAVEMENT

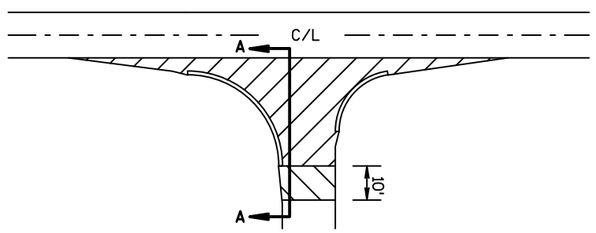
REMOVING ASPHALTIC SURFACE, MILLING

REMOVING ASPHALTIC SURFACE, BUTT JOINT

NOTE: EXACT DIMENSIONS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

MAINLINE BUTT JOINT DETAIL

STA 3+60 - STA 4+60
STA 352+44 - STA 353+44



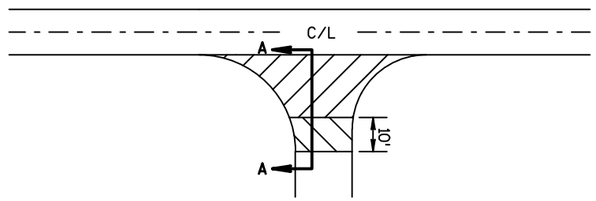
REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINT

NOTE: EXACT DIMENSIONS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

BUTT JOINT DETAIL

SIDE ROADS WITH CURB AND GUTTER



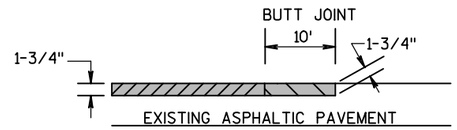
REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINT

NOTE: EXACT DIMENSIONS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

BUTT JOINT DETAIL

SIDE ROADS WITHOUT CURB AND GUTTER AND DRIVEWAYS



1-3/4" HMA PAVEMENT

REMOVING ASPHALTIC SURFACE MILLING

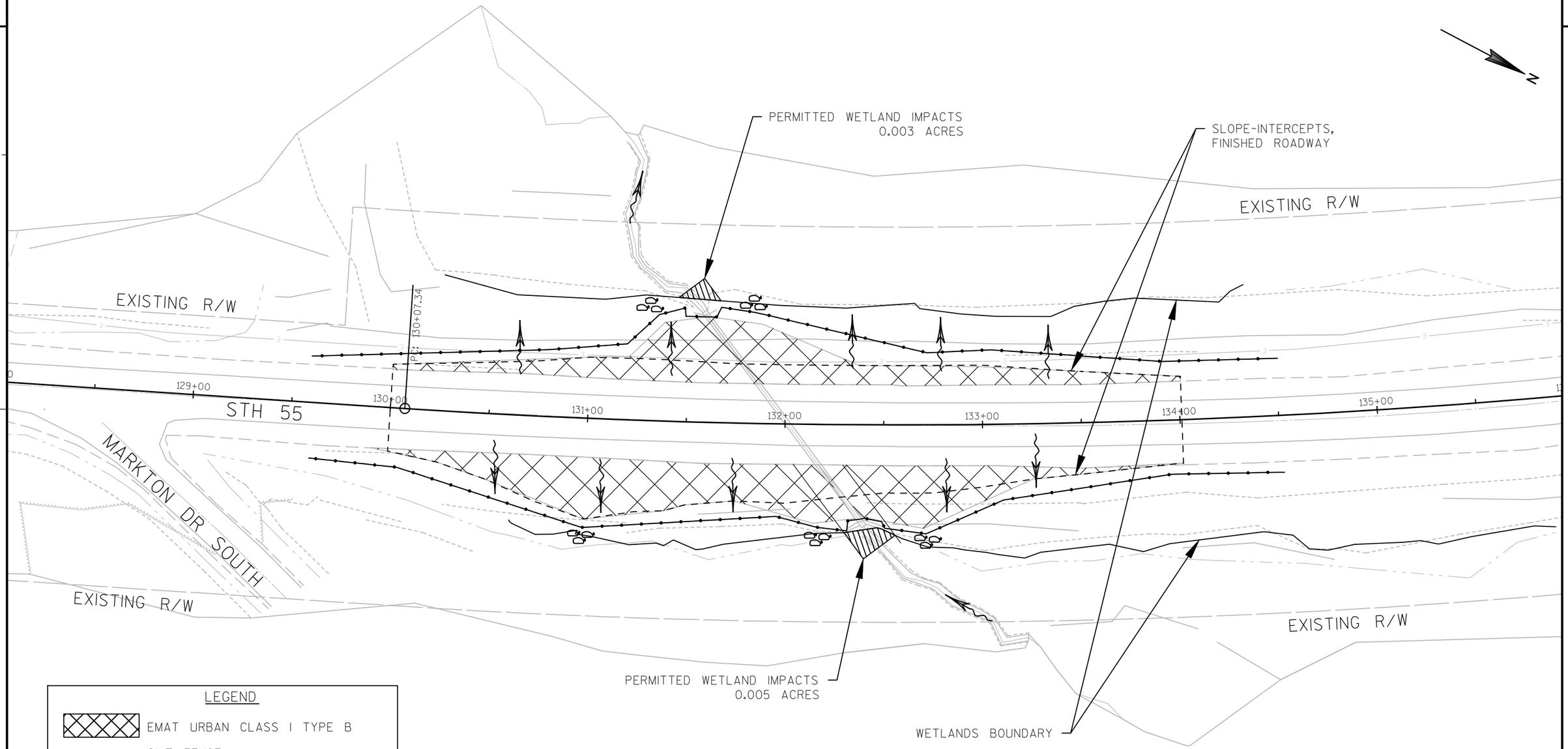
REMOVING ASPHALTIC SURFACE BUTT JOINT

NOTE: EXACT DIMENSIONS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

SECTION A - A

2

2



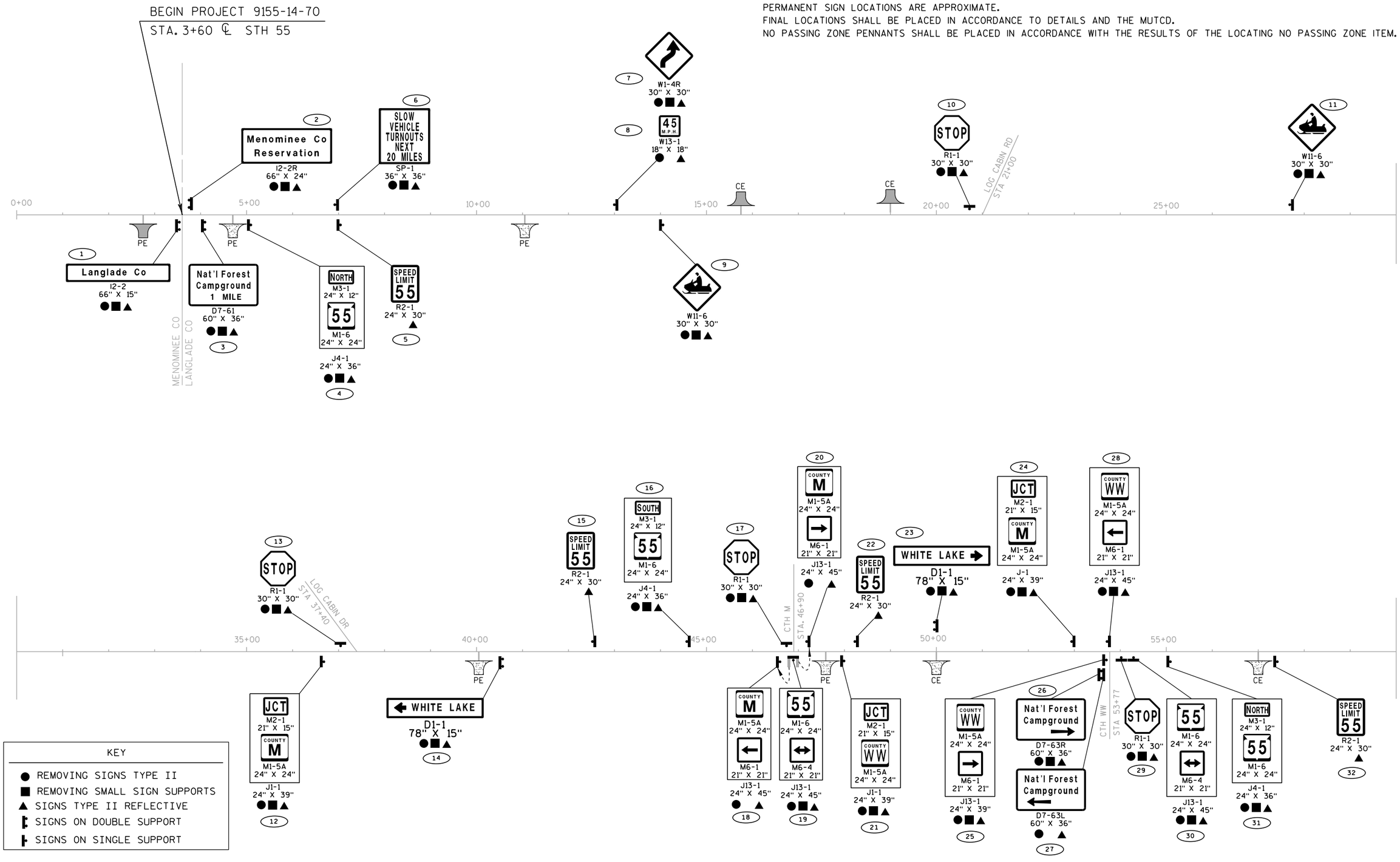
LEGEND

- EMAT URBAN CLASS I TYPE B
- SILT FENCE
- FLOW ARROWS
- ROCK BAGS FOR SILT FENCE RELIEF

NOTE:
FLOW NEEDS TO BE MAINTAINED AT
DEMPSTER CREEK DURING CONSTRUCTION

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	EROSION CONTROL - PIPE 34-055-009 (C-34-11)	SHEET 15	E

PERMANENT SIGN LOCATIONS ARE APPROXIMATE.
FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.
NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.



PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

PERMANENT SIGN LOCATIONS ARE APPROXIMATE.
FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.
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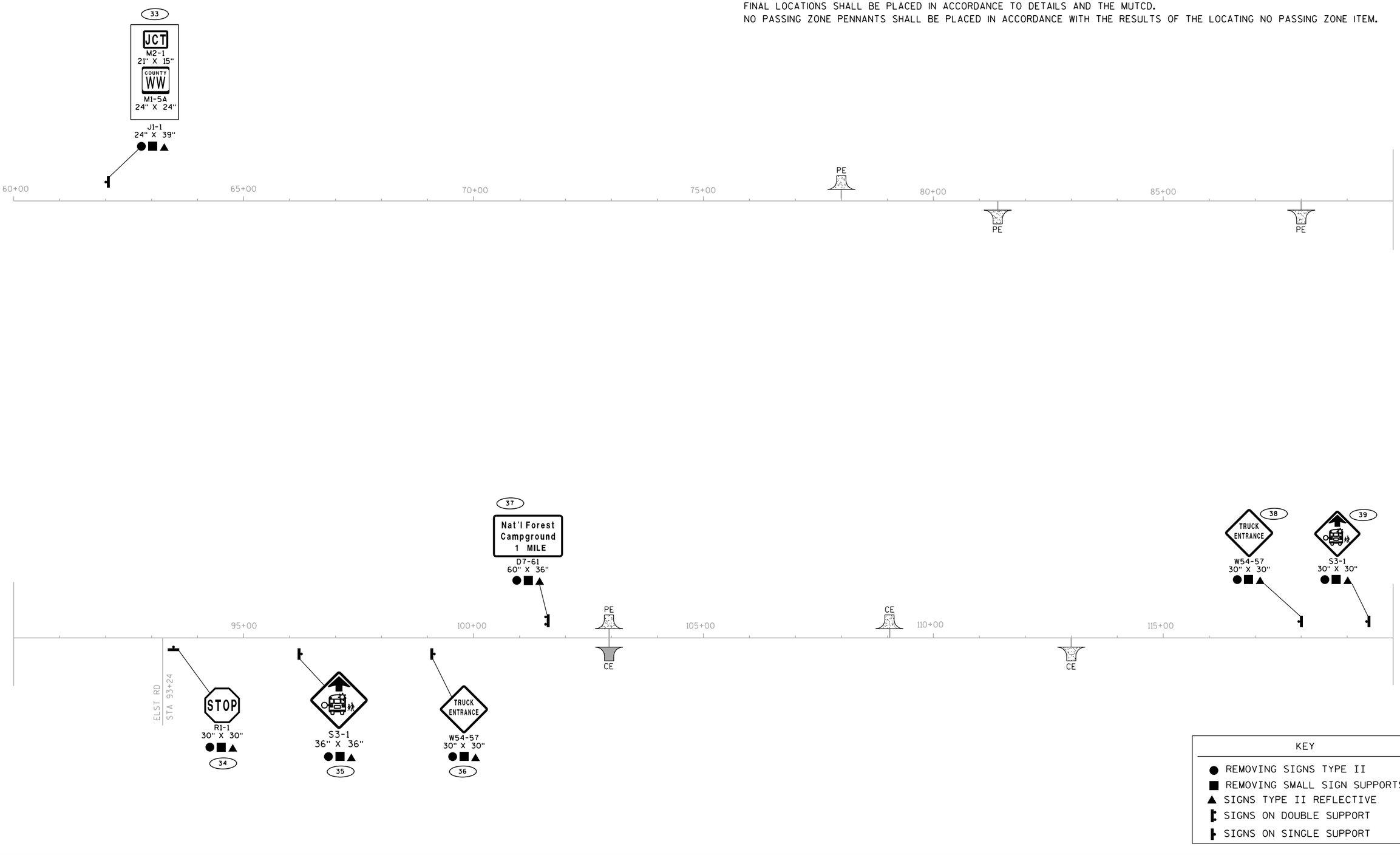

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

PERMANENT SIGN LOCATIONS ARE APPROXIMATE.
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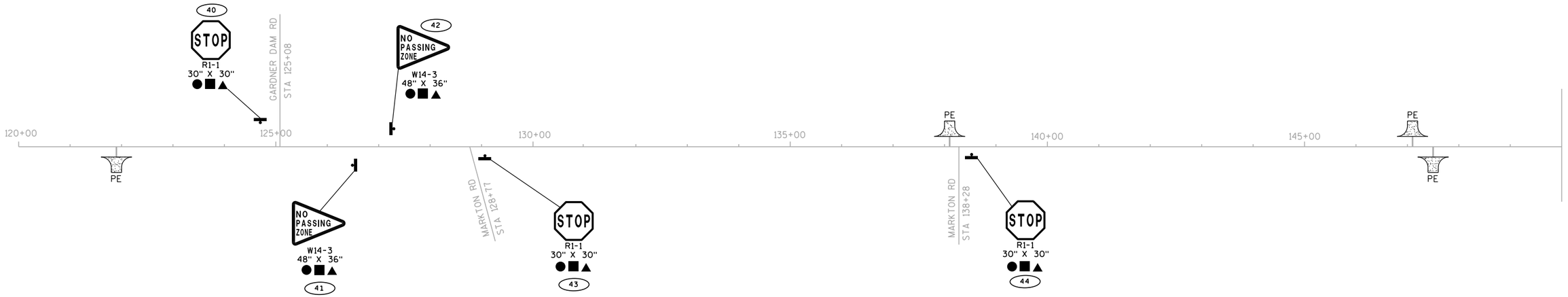

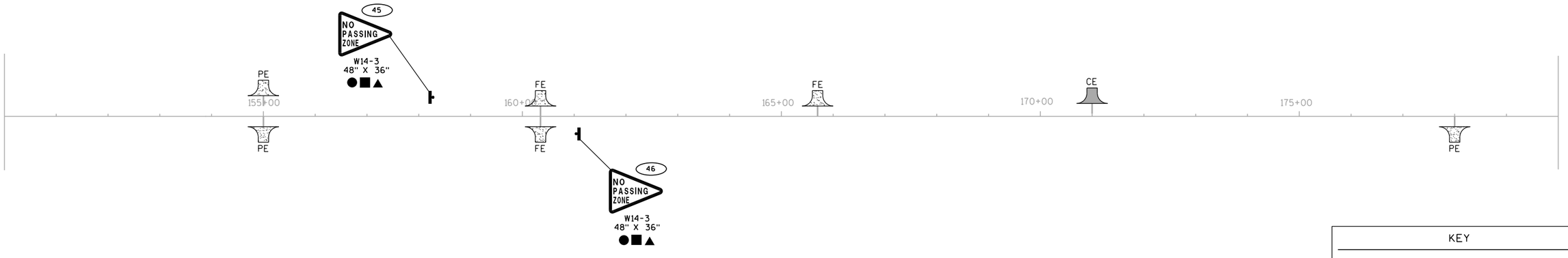

KEY

- ● REMOVING SIGNS TYPE II
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS TYPE II REFLECTIVE
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

PERMANENT SIGN LOCATIONS ARE APPROXIMATE.
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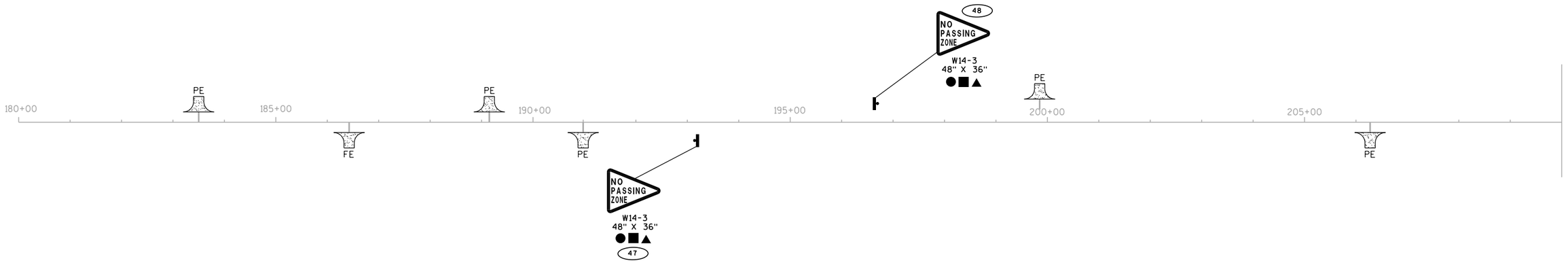

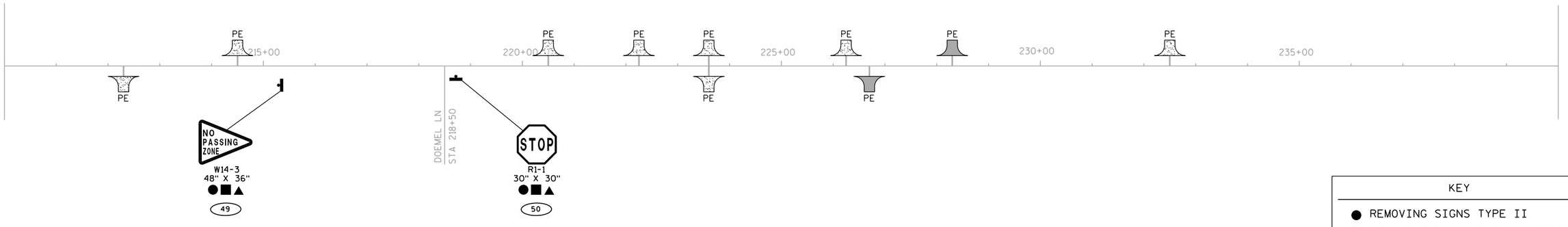

KEY

- ● REMOVING SIGNS TYPE II
- ■ REMOVING SMALL SIGN SUPPORTS
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- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

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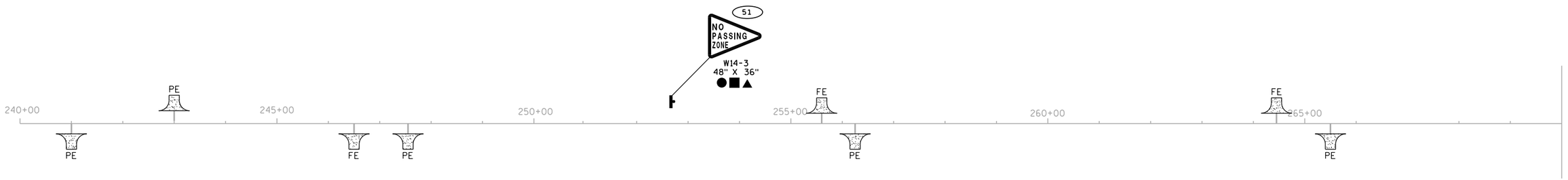

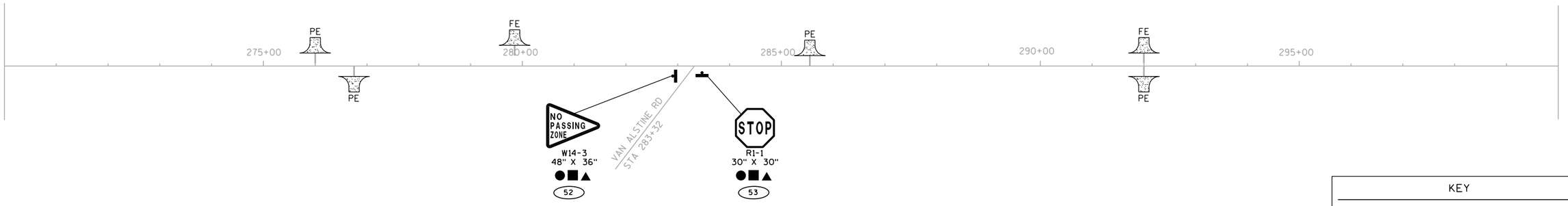

KEY

- ● REMOVING SIGNS TYPE II
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS TYPE II REFLECTIVE
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

KEY
● REMOVING SIGNS TYPE II
■ REMOVING SMALL SIGN SUPPORTS
▲ SIGNS TYPE II REFLECTIVE
┣ SIGNS ON DOUBLE SUPPORT
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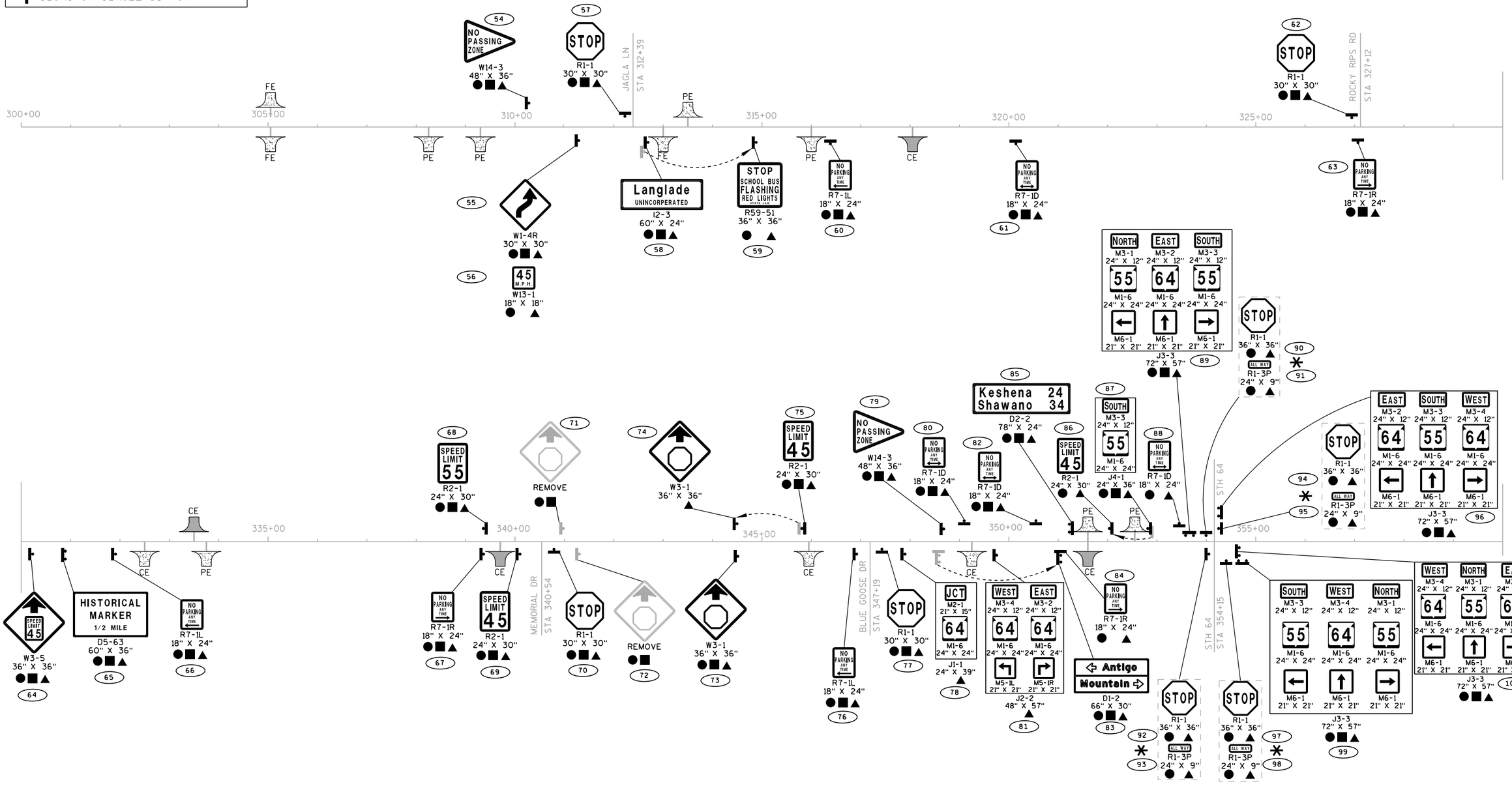
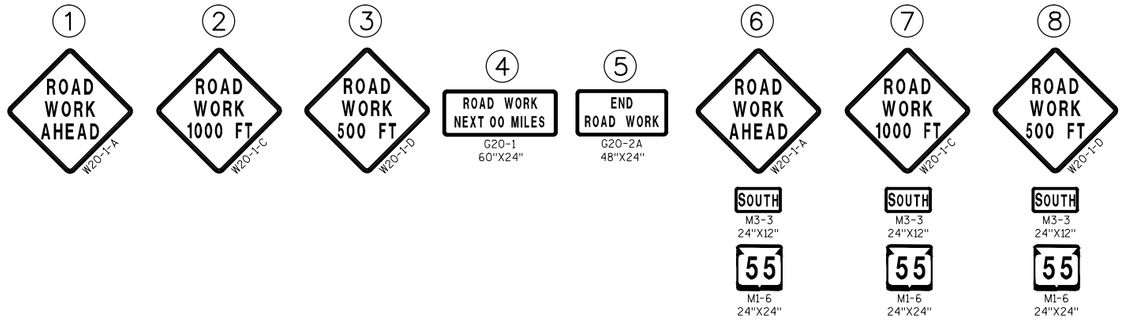
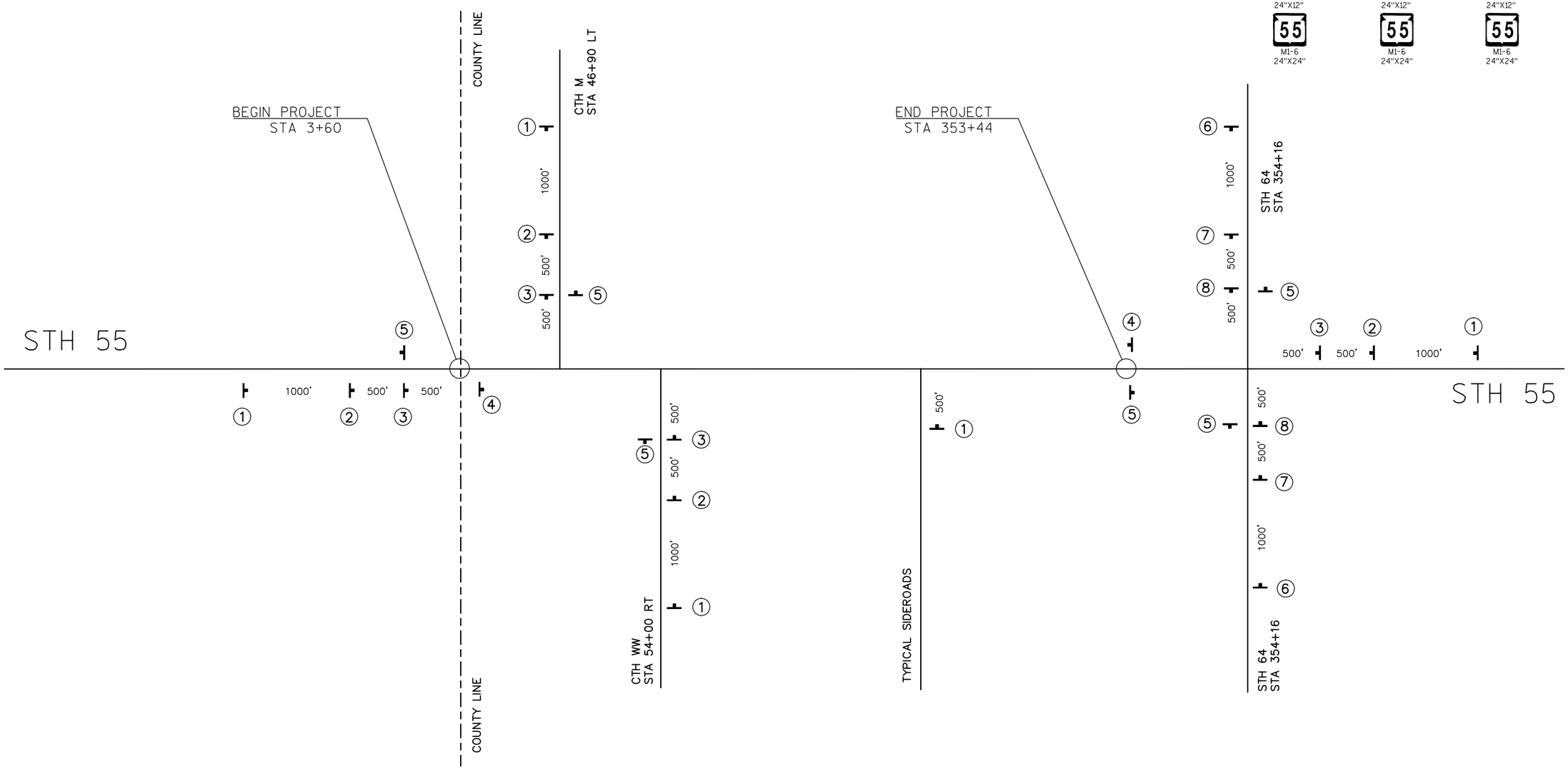


*MOUNT NEW SIGN ON EXISTING BEACON POLE (TYP)

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

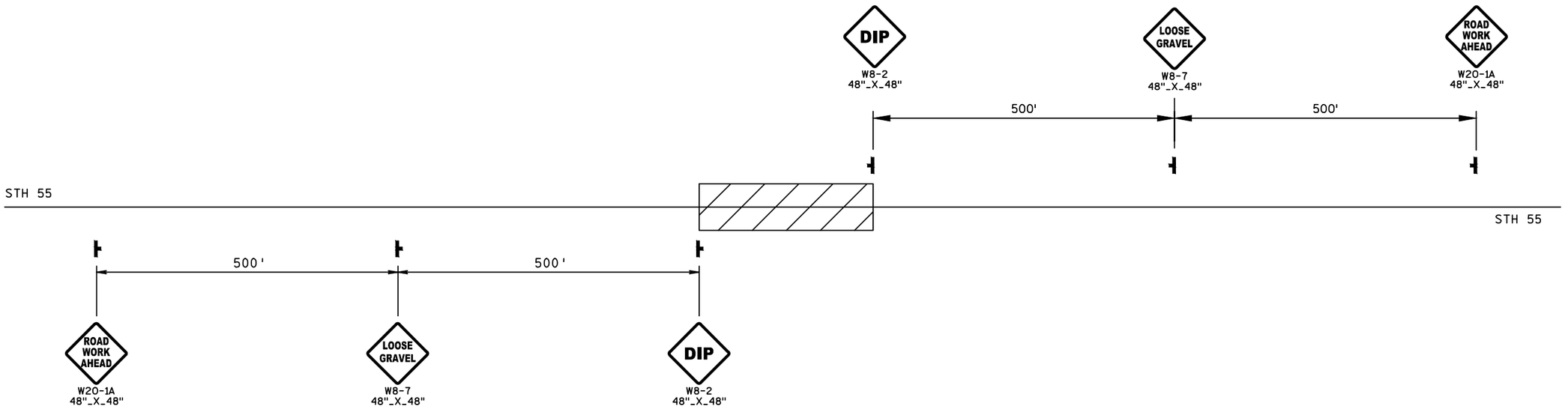
2





PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	TRAFFIC CONTROL	SHEET 22	E

2



CULVERT PIPE TRANSITION AREA
48' MIN - 110' MAX

TEMPORARY SIGNING AT CULVERT PIPE REPLACEMENT

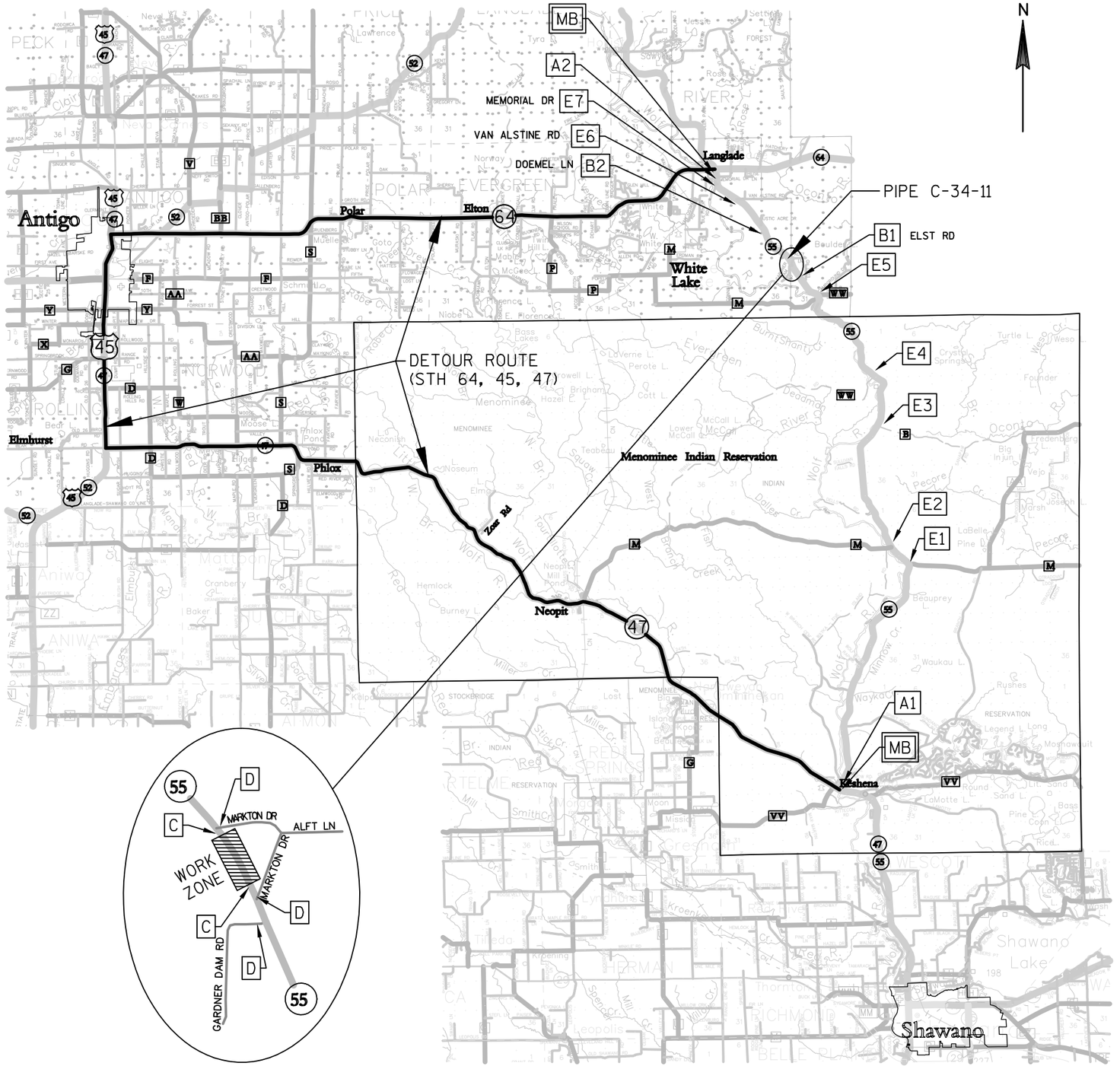
STA 49+58
STA 338+58

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	TRAFFIC CONTROL - TEMP SIGNING DETAIL - PIPE CULVERT	SHEET 23	E

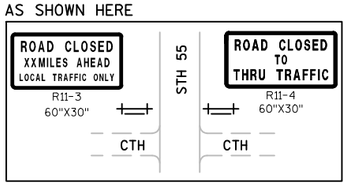
2

GENERAL NOTES

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER
2. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED
3. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKROUND IS ORANGE
4. ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED. EQUIP WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS PER SDDS
5. MAINTAIN ALL EXITING STOP SIGNS AT ALL TIMES
6. FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE C WARNING LIGHT
7. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER



A*	SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL A
B*	SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL C
C	SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL D
D	SEE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4
E*	AS SHOWN HERE

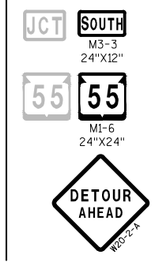


MB	PLACE TRAFFIC CONTROL SIGNS PCMS AT THE DETOUR TERMINI ONE WEEK PRIOR TO THE START OF THE 5-DAY DETOUR
	TYPE III BARRICADE WITH ATTACHED SIGN

DISTANCES FOR ROAD CLOSED SIGNS		
A1	21	MILES
A2	4.2	MILES
B1	0.7	MILES
B2	1.6	MILES
E1	12.6	MILES
E2	11.7	MILES
E3	7.2	MILES
E4	5.3	MILES
E5	1.5	MILES
E6	3	MILES
E7	4	MILES

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	TRAFFIC CONTROL AND DETOUR OVERVIEW	SHEET 24	E

101



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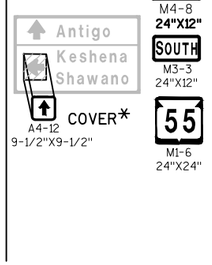

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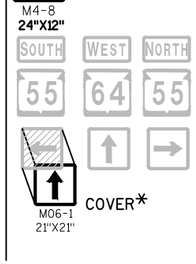

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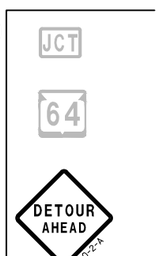

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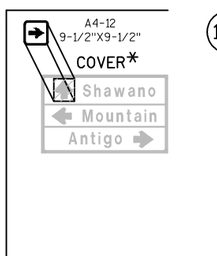

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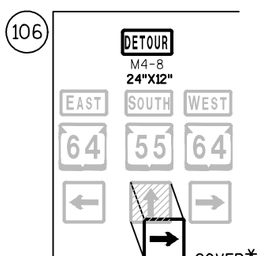
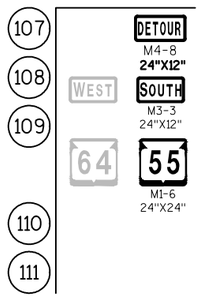


107
108
109
110
111



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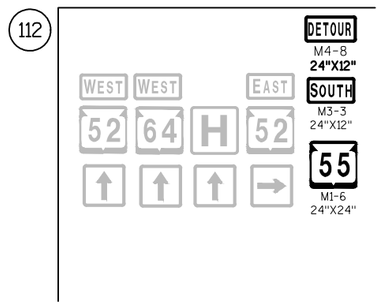
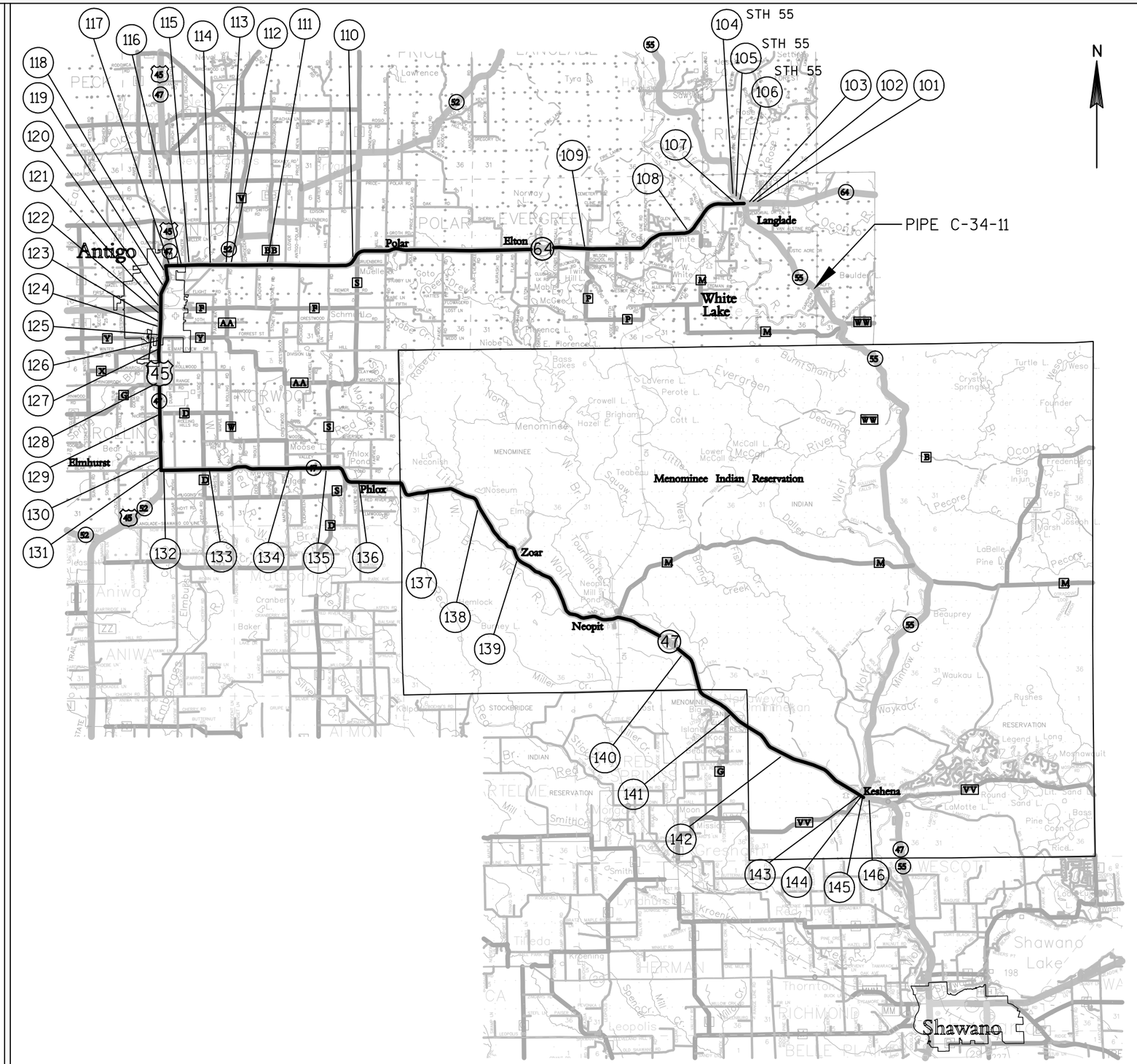
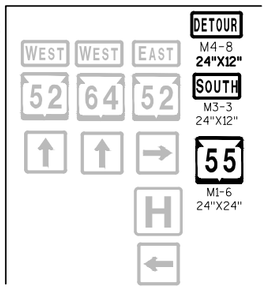


* PAID FOR AS TRAFFIC CONTROL DETOUR SIGN



PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	DETOUR - STH 55 SOUTH	SHEET 25	E

(113)



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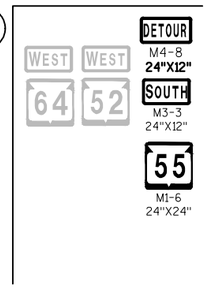

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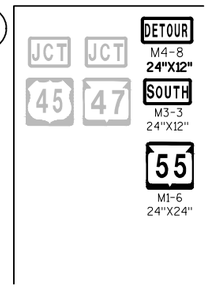

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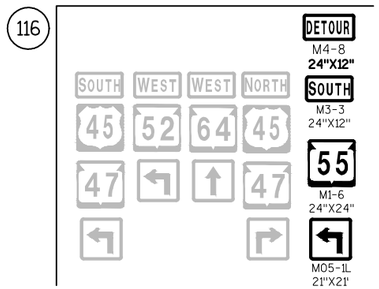

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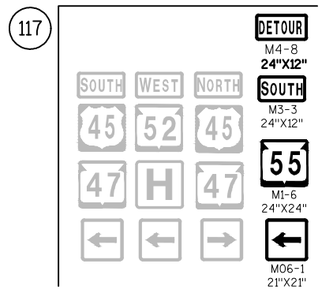

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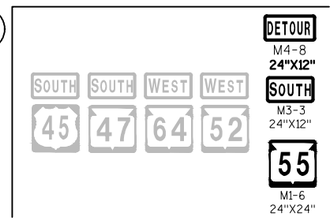

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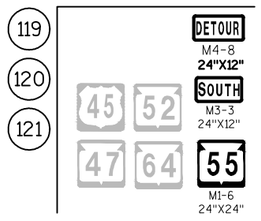

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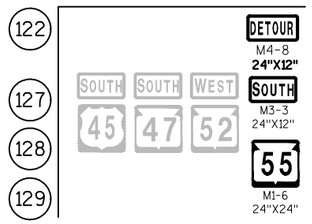

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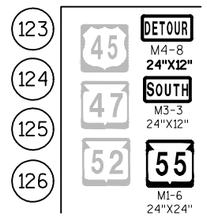

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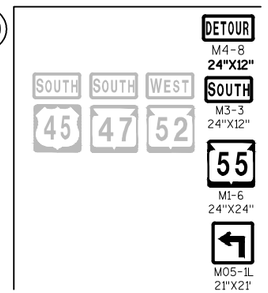

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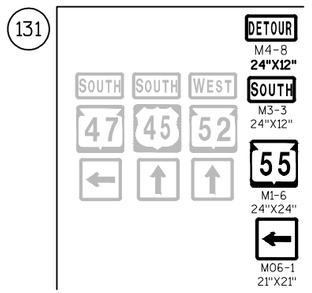
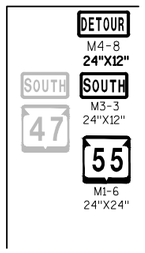


(132) (133) (134) (135) (136) (139) (141) (142)



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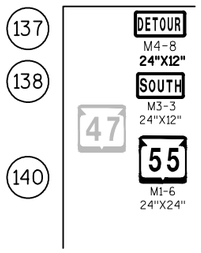

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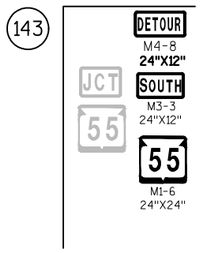

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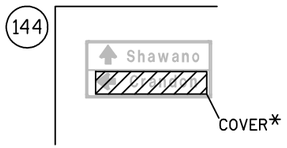

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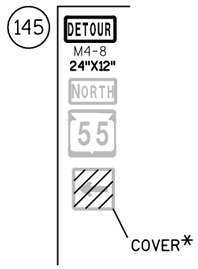

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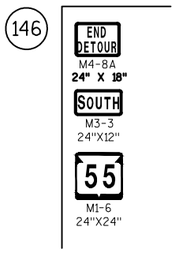
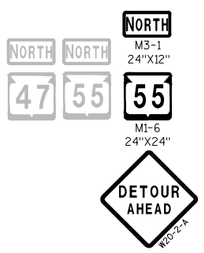


* PAID FOR AS TRAFFIC CONTROL DETOUR SIGN

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	DETOUR - STH 55 SOUTH	SHEET 26	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\027002-DT-SOUTH.DWG PLOT DATE : 9/24/2015 11:26 AM PLOT BY : BAIER, GERARD M PLOT NAME : PLOT SCALE : 0.000049
WISDOT/CADDS SHEET 42

201



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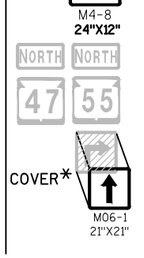
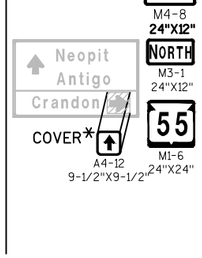


203



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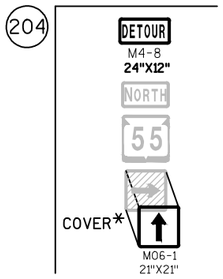

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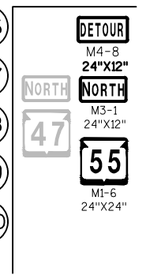

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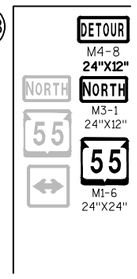

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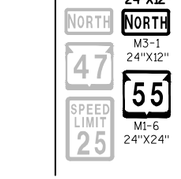

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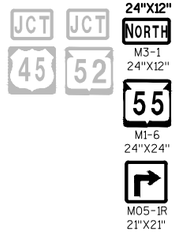

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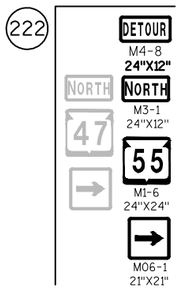

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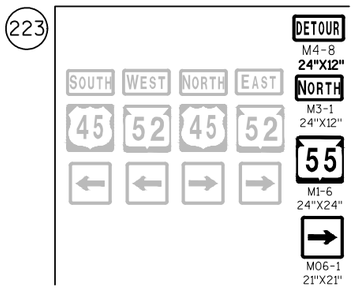
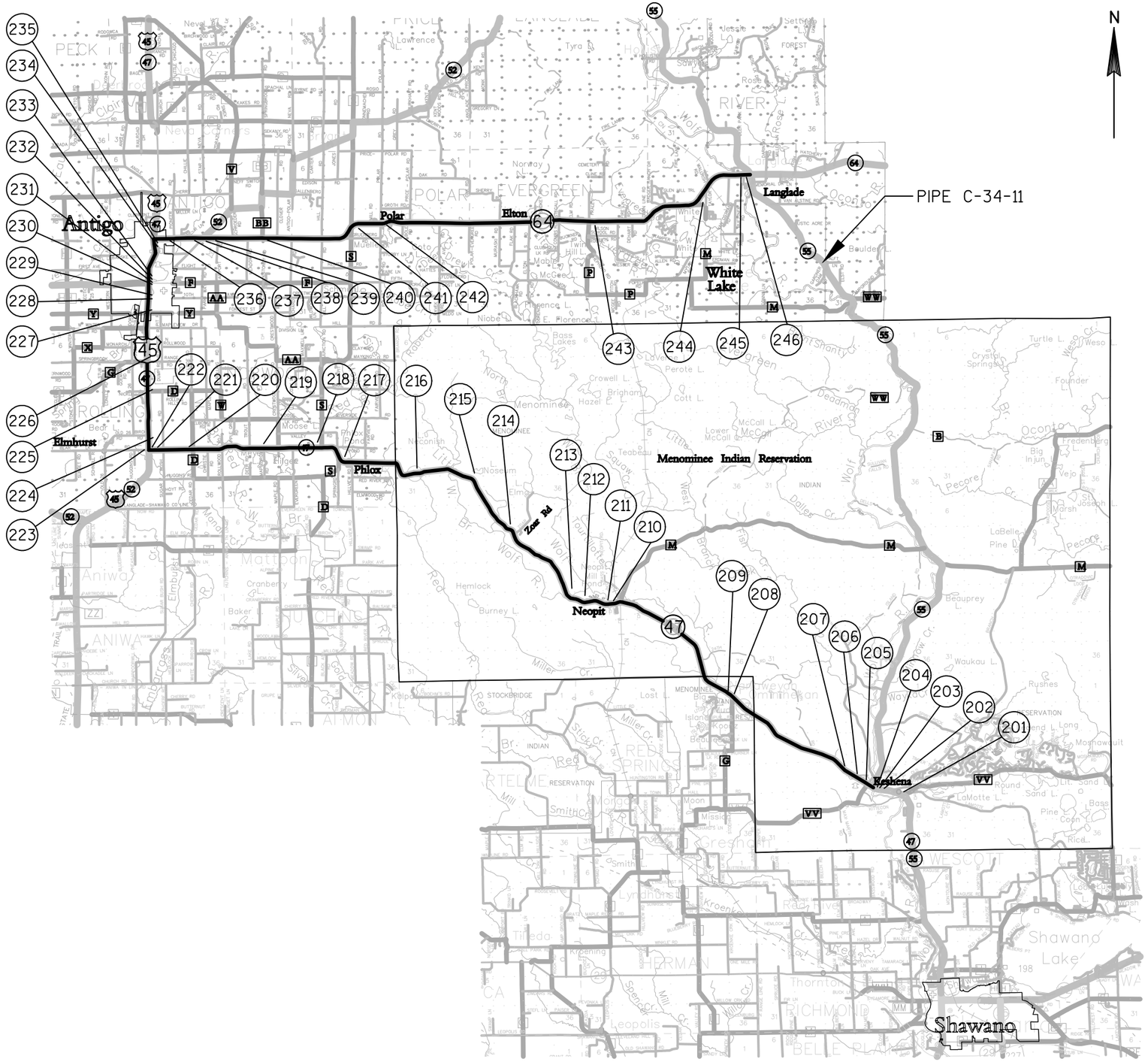


* PAID FOR AS TRAFFIC CONTROL DETOUR SIGN



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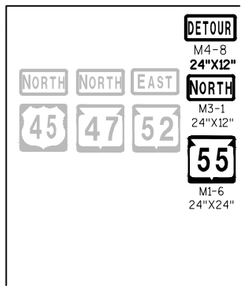

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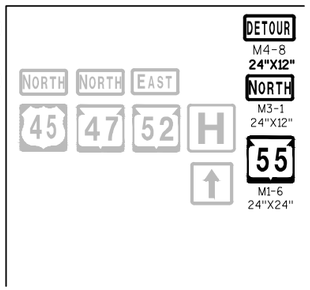

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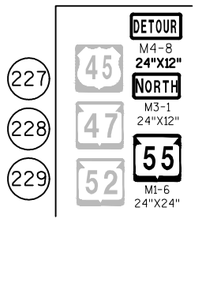

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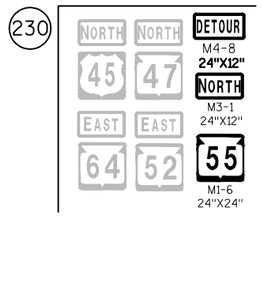

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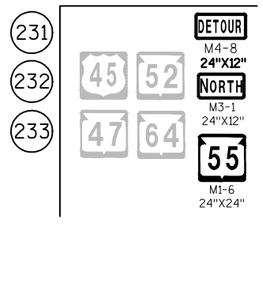

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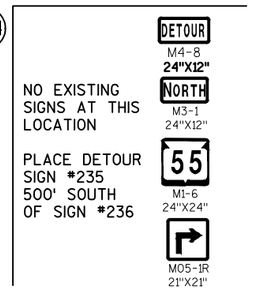

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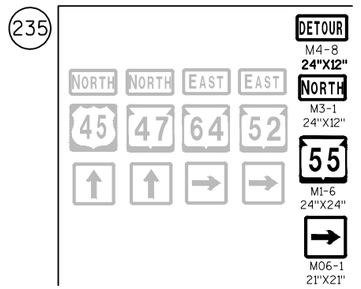

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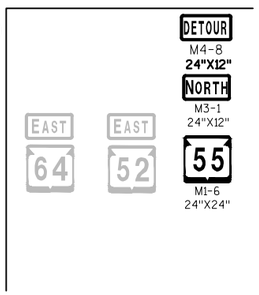

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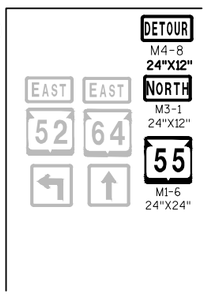

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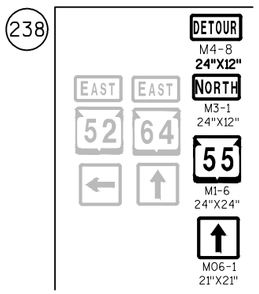

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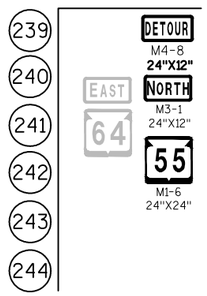

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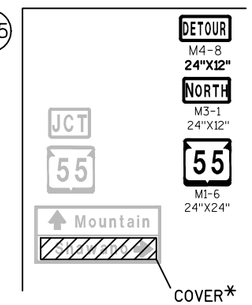

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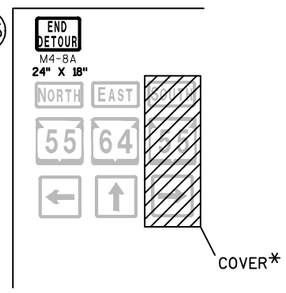

* PAID FOR AS TRAFFIC CONTROL DETOUR SIGN

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	DETOUR - STH 55 NORTH	SHEET 28	E

DATE 23FEB16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9155-14-70 QUANTITY
0010	201.0205	Grubbing	STA	6.000	6.000
0020	203.0100	Removing Small Pipe Culverts	EACH	4.000	4.000
0030	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,462.000	1,462.000
0040	204.0120	Removing Asphaltic Surface Milling	SY	98,600.000	98,600.000
0050	204.0180	Removing Delineators and Markers	EACH	62.000	62.000
0060	204.0270	Abandoning Culvert Pipes 01. 24-INCH	EACH	1.000	1.000
0070	204.0270	Abandoning Culvert Pipes 02. 12" UNDERDRAIN	EACH	1.000	1.000
0080	204.0270	Abandoning Culvert Pipes 03. 18" Underdrain	EACH	1.000	1.000
0090	205.0100	Excavation Common	CY	1,380.000	1,380.000
0100	208.0100	Borrow	CY	104.000	104.000
0110	209.0100	Backfill Granular	CY	100.000	100.000
0120	209.0200.S	Backfill Controlled Low Strength	CY	22.300	22.300
0130	209.0300.S	Backfill Coarse Aggregate (size) 01. NO 2	CY	3.000	3.000
0140	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 9155-14-70	LS	1.000	1.000
0150	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	642.000	642.000
0160	213.0100	Finishing Roadway (project) 01. 9155-14-70	EACH	1.000	1.000
0170	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,650.000	5,650.000
0180	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	900.000	900.000
0190	305.0500	Shaping Shoulders	STA	699.000	699.000
0200	440.4410	Incentive IRI Ride	DOL	26,520.000	26,520.000
0210	455.0605	Tack Coat	GAL	8,330.000	8,330.000
0220	460.2000	Incentive Density HMA Pavement	DOL	8,960.000	8,960.000
0230	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	34,984.000	34,984.000
0240	460.5224	HMA Pavement 4 LT 58-28 S	TON	14,225.000	14,225.000
0250	465.0110	Asphaltic Surface Patching	TON	40.000	40.000
0260	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	26,870.000	26,870.000
0270	522.0324	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	124.000	124.000
0280	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	4.000	4.000
0290	523.0153	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 53x83-Inch	LF	128.000	128.000
0300	523.0553	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 53x83-Inch	EACH	2.000	2.000
0310	606.0100	Riprap Light	CY	15.000	15.000
0320	606.0200	Riprap Medium	CY	5.000	5.000
0330	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9155-14-70	EACH	1.000	1.000
0340	619.1000	Mobilization	EACH	1.000	1.000
0350	625.0100	Topsoil	SY	2,800.000	2,800.000
0360	628.1504	Silt Fence	LF	2,731.000	2,731.000
0370	628.1520	Silt Fence Maintenance	LF	2,731.000	2,731.000
0380	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0390	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0400	628.2008	Erosion Mat Urban Class I Type B	SY	2,790.000	2,790.000
0410	628.7555	Culvert Pipe Checks	EACH	4.000	4.000

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DATE 23FEB16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9155-14-70 QUANTITY
0420	628.7570	Rock Bags	EACH	213.000	213.000
0430	629.0210	Fertilizer Type B	CWT	3.200	3.200
0440	630.0130	Seeding Mixture No. 30	LB	85.000	85.000
0450	633.0100	Delineator Posts Steel	EACH	19.000	19.000
0460	633.0500	Delineator Reflectors	EACH	19.000	19.000
0470	633.5200	Markers Culvert End	EACH	44.000	44.000
0480	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	88.000	88.000
0490	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	5.000	5.000
0500	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	8.000	8.000
0510	637.2210	Signs Type II Reflective H	SF	569.000	569.000
0520	637.2230	Signs Type II Reflective F	SF	132.000	132.000
0530	638.2602	Removing Signs Type II	EACH	93.000	93.000
0540	638.3000	Removing Small Sign Supports	EACH	82.000	82.000
0550	642.5201	Field Office Type C	EACH	1.000	1.000
0560	643.0100	Traffic Control (project) 01. 9155-14-70	EACH	1.000	1.000
0570	643.0300	Traffic Control Drums	DAY	3,250.000	3,250.000
0580	643.0420	Traffic Control Barricades Type III	DAY	236.000	236.000
0590	643.0705	Traffic Control Warning Lights Type A	DAY	230.000	230.000
0600	643.0900	Traffic Control Signs	DAY	2,975.000	2,975.000
0610	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0620	643.2000	Traffic Control Detour (project) 01. 9155-14-70	EACH	1.000	1.000
0630	643.3000	Traffic Control Detour Signs	DAY	1,830.000	1,830.000
0640	645.0120	Geotextile Fabric Type HR	SY	20.000	20.000
0650	645.0130	Geotextile Fabric Type R	SY	65.000	65.000
0660	646.0106	Pavement Marking Epoxy 4-Inch	LF	118,700.000	118,700.000
0670	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	49,600.000	49,600.000
0680	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	15.000	15.000
0690	648.0100	Locating No-Passing Zones	MI	6.380	6.380
0700	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	46,500.000	46,500.000
0710	650.6000	Construction Staking Pipe Culverts	EACH	3.000	3.000
0720	650.8000	Construction Staking Resurfacing Reference	LF	34,974.000	34,974.000
0730	650.9910	Construction Staking Supplemental Control (project) 01. 9155-14-70	LS	1.000	1.000
0740	650.9920	Construction Staking Slope Stakes	LF	644.000	644.000
0750	690.0150	Sawing Asphalt	LF	182.000	182.000
0760	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,200.000	1,200.000
0770	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	600.000
0780	SPV.0060	Special 01. CULVERT PIPE TRANSITIONS	EACH	3.000	3.000
0790	SPV.0105	Special 01. TEMPORARY WATER DIVERSION - DEMPSTER	LS	1.000	1.000
0800	SPV.0180	Special 01. PROTECTIVE THERMOPLASTIC COATING AT SNOWMOBILE TRAIL CROSSINGS	SY	50.000	50.000

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GRUBBING

201.0205 GRUBBING (STA)

STATION		STATION		LOCATION	COMMENTS	
49+20	LT	49+80	LT	LT	CULVERT 34-055-004	1
130+00		134+00		LT & RT	CULVERT C-34-11	4
338+40	LT	338+80	LT	LT	CULVERT 34-055-020	1
					TOTALS:	6

REMOVING ASPHALTIC SURFACE MILLING

204.0120 REMOVING ASPHALTIC SURFACE MILLING (SY)

STATION		STATION	LOCATION	COMMENTS	
4+60	-	148+00	STH 55	MAINLINE	39400
148+00	-	352+34	STH 55	MAINLINE	55580
21+00 LT			LOG CABIN ROAD	SIDE ROAD	185
37+40 LT			LOG CABIN DRIVE	SIDE ROAD	185
46+90 LT			CTH M	SIDE ROAD	285
53+75 RT			CTH WW	SIDE ROAD	185
93+24 RT			ELST ROAD	SIDE ROAD	185
128+77 RT			MARKTON DRIVE - SOUTH	SIDE ROAD	185
138+28 RT			MARKTON DRIVE - NORTH	SIDE ROAD	185
218+50 RT			DOEMEL LANE	SIDE ROAD	185
283+32 RT			VAN ALSTINE ROAD	SIDE ROAD	185
312+39 LT			JAGLA LANE	SIDE ROAD	185
327+12 LT			ROCKY RIPS ROAD	SIDE ROAD	185
340+54 RT			MEMORIAL DRIVE	SIDE ROAD	185
347+19 RT			BLUE GOOSE DRIVE	SIDE ROAD	185
15+75 LT			CE	DRIVEWAY	136
19+00 LT			CE	DRIVEWAY	136
103+25 RT			PE	DRIVEWAY	110
171+44 LT			PE	DRIVEWAY	110
226+95 RT			PE	DRIVEWAY	110
228+53 LT			PE	DRIVEWAY	110
332+10 LT			CE	DRIVEWAY	136
351+94 RT			CE	DRIVEWAY	136
UNDISTRIBUTED					131
				TOTAL:	98600

REMOVING SMALL PIPE CULVERTS

203.0100 REMOVING SMALL PIPE CULVERTS (EACH)

STATION	LOCATION	APPROXIMATE LENGTH (LF)	DIAMETER (INCHES)	DEPTH TO TOP OF PIPE (LF)	
49+25	STH 55	5 (*)	18	3	1
49+50	STH 55	28 (*)	24	3	1
132+02	STH 55	135	30	13	1
338+58	STH 55	100	24	6	1
				TOTAL	4

(*) NOTE: PARTIAL REMOVAL OF PIPE ENDS PRIOR TO PIPE GROUTING (SEE PLAN)

REMOVING DELINEATORS AND MARKERS

204.0180 REMOVING DELINEATORS AND MARKERS (EACH)

STATION		LOCATION (CULVERT NO.)	COMMENTS	
20+10		34-055-001	CULVERT END MARKERS	2
22+00 LT	- 30+00 LT		ROADSIDE DELINEATORS	17
37+50		34-055-002	CULVERT END MARKERS	2
45+80		34-055-003	CULVERT END MARKERS	2
49+53		34-055-004	CULVERT END MARKERS	2
49+34		34-055-004-B	CULVERT END MARKERS	1
54+58		34-055-005	CULVERT END MARKERS	2
58+53		34-055-006	CULVERT END MARKERS	2
71+17		34-055-007	CULVERT END MARKERS	2
96+94		34-055-008	CULVERT END MARKERS	2
132+02		C-34-11	CULVERT END MARKERS	2
154+54		34-055-010	CULVERT END MARKERS	2
183+94		34-055-011	CULVERT END MARKERS	2
198+37		34-055-012	CULVERT END MARKERS	2
232+94		34-055-013	CULVERT END MARKERS	2
244+53		34-055-014	CULVERT END MARKERS	2
263+94		34-055-015	CULVERT END MARKERS	2
274+34		34-055-016	CULVERT END MARKERS	2
304+94		34-055-017	CULVERT END MARKERS	2
322+08		34-055-018	CULVERT END MARKERS	2
329+09		34-055-019	CULVERT END MARKERS	2
338+58		34-055-020	CULVERT END MARKERS	2
344+40		34-055-021	CULVERT END MARKERS	2
348+77		34-055-022	CULVERT END MARKERS	2
			TOTAL	62

REMOVING ASPHALTIC SURFACE BUTT JOINTS

204.0115 REMOVING ASPHALTIC SURFACE MILLING BUTT JOINTS (SY)

STATION			LOCATION	
MAINLINE				
3+60	-	4+60	STH 55	256
352+34	-	353+34	STH 55	467
SIDE ROADS				
21+00 LT			LOG CABIN ROAD	27
37+40 LT			LOG CABIN DRIVE	27
46+90 LT			CTH M	27
53+75 RT			CTH WW	27
93+24 RT			ELST ROAD	27
125+08 LT			GARDNER DAM ROAD	27
128+77 RT			MARKTON DRIVE - SOUTH	27
138+28 RT			MARKTON DRIVE - NORTH	27
218+50 RT			DOEMEL LANE	27
283+32 LT			VAN ALSTINE ROAD	27
312+39 LT			JAGLA LANE	27
327+12 LT			ROCKY RIPS ROAD	27
340+54 RT			MEMORIAL DRIVE	27
347+19 RT			BLUE GOOSE DRIVE	27
ENTRANCES				
15+75 LT			CE	31
19+00 LT			CE	31
103+25 RT			PE	22
171+44 LT			PE	22
226+95 RT			PE	22
228+53 LT			PE	22
332+10 LT			CE	180
351+94 RT			CE	31
			TOTAL:	1462

ABANDONING CULVERT PIPES
BACKFILL CONTROLLED LOW STRENGTH
BACKFILL COUSRE AGGREGATE (SIZE) NO. 2

STATION	STATION	LOCATION	COMMENTS	204.0270.01 ABANDONING CULVERT PIPES, 24" CMCP (EACH)	204.0270.02 ABANDONING CULVERT PIPES, 12" UNDERDRAIN (EACH)	204.0270.03 ABANDONING CULVERT PIPES, 18" CMCP (EACH)	209.0200.S BACKFILL CONTROLLED LOW STRENGTH (CY)	209.0300.S BACKFILL COARSE AGGEGATE SIZE NO. 2 (CY)
49+53		STH 55	EXISITING 24" CMCP	1	–	–	9.3	–
49+34		STH 55	EXISTING 18" CMCP	–	–	1	8.0	–
48+45 RT	51+18 RT	STH 55	EXISTING 12" UNDERDRAIN CMCP	–	1	–	5.0	–
49+34 LT		STH 55	OUTFALL END OF 18" EXISITNG CMCP	–	–	–	–	1
49+53 LT		STH 55	OUTFALL END OF EXISTING 24" CMCP	–	–	–	–	2
			TOTALS:	1	1	1	22.3	3

(*) NOTE: EXISTING 12" UNDERDRAIN IS COMPOSED OF A 12" CMCP (STA 48+45, 30' RT TO STA 51+18, 30' RT) CONNECTED TO A 18" CMCP (STA 49+34, 44' LT – 29' RT)

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

STATION		STATION		COMMENTS	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS (STA)
3+60 LT	–	51+75 LT		PAVED SHOULDER WIDENING	48
55+75 LT	–	317+00 LT		PAVED SHOULDER WIDENING	262
332+70 LT	–	353+34 LT		PAVED SHOULDER WIDENING	21
3+60 RT	–	10+50 RT		PAVED SHOULDER WIDENING	7
37+40 RT	–	51+75 RT		PAVED SHOULDER WIDENING	21
53+75 RT	–	317+00 RT		PAVED SHOULDER WIDENING	264
331+00 RT	–	337+50 RT		PAVED SHOULDER WIDENING	7
340+54 RT	–	351+80 RT		PAVED SHOULDER WIDENING	12
				TOTAL	642

EARTHWORK

STATION		STATION	LOCATION	205.0100 EXCAVATION COMMON (CY)	208.0100 BORROW (CY)	209.0100 GRANULAR BACKFILL (CY)
SLOPE EMBANKMENT (SEE CROSS SECTIONS)						
STA 22+00 LT	–	STA 24+50 LT	STH 55	18	8	–
STA 29+50 LT	–	STA 33+44 LT	STH 55	20	6	–
PIPE REPLACEMENTS (TRANSITION CUT AT CULVERT PIPE TRANSITIONS) (SEE CONSTRUCTION DETAIL)						
STA 49+59			PIPE 34-055-004	284	–	(**)
STA 132+02			PIPE C-34-11	328	–	(**)
STA 338+58			PIPE 34-055-020	85	–	(**)
STA 338+54 LT (*)			DRAINAGE DITCH EXCAVATION (*)	70	–	–
PIPE REPLACEMENTS (EARTHWORK) (SEE CROSS SECTIONS AND CONSTRUCTION DETAIL)						
STA 49+04	–	STA 50+14	EXCAVATION FOR NEW PAVEMENT STRUCTURE AND SHOULDER SLOPES	200	10	–
STA 130+00	–	STA 134+00	EXCAVATION FOR NEW PAVEMENT STRUCTURE AND SHOULDER SLOPES	255	70	–
STA 338+26	–	STA 338+90	EXCAVATION FOR NEW PAVEMENT STRUCTURE AND SHOULDER SLOPES	120	10	–
UNDISTRIBUTED				–	–	100
			TOTALS:	1380	104	100 (**)

(*) INCLUDES EXCAVATION TO BOTTOM OF PROPOSED RIPRAP. FINISHED ELEVATIONS ARE GIVEN IN "PLAN: PIPE 34-055-020". QUANTITIES.

(**) NOTE: ITEM USEAGE "AS NEEDED" IF TRENCH EXCAVATION MATERIAL IS INSUFFIECENT IN QUANTITY TO BACKFILL NEW PIPES. QUANTITY IS APPROXIMATE.

NOTE: EXPANSION FACTOR OF 1.3 USED FOR BORROW.

SHAPING SHOULDERS

STATION		STATION	COMMENTS	305.0500 SHAPING SHOULDERS (STA)
3+60 LT	–	353+34 LT	LT SHOULDER	350
3+60 RT	–	351+80 RT	RT SHOULDER	349
			TOTAL	699

3

BASE AGGREGATE DENSE

STATION			STATION		COMMENTS	305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON)	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (TON)
3+60	LT	–	148+00	LT	LT SHOULDER	800	–
3+60	RT	–	148+00	RT	RT SHOULDER	800	–
148+00	LT	–	353+34	LT	LT SHOULDER	1070	–
148+00	RT	–	351+80	LT	RT SHOULDER	1400	–
21+00 LT			LOG CABIN ROAD		SIDE ROAD RADIUS RETURN	20	–
37+40 LT			LOG CABIN DRIVE		SIDE ROAD RADIUS RETURN	20	–
46+90 LT			CTH M		SIDE ROAD RADIUS RETURN	30	–
49+59			PIPE 34-055-004		CULVERT PIPE TRANSITION	–	351
53+75 RT			CTH WW		SIDE ROAD RADIUS RETURN	30	–
93+24 RT			ELST ROAD		SIDE ROAD RADIUS RETURN	20	–
128+77 RT			MARKTON DRIVE - SOUTH		SIDE ROAD RADIUS RETURN	20	–
132+02			PIPE 34-055-009 (C-34-11)		CULVERT PIPE TRANSITION	–	312
138+28 RT			MARKTON DRIVE - NORTH		SIDE ROAD RADIUS RETURN	20	–
218+50 RT			DOEMEL LANE		SIDE ROAD RADIUS RETURN	20	–
283+32 RT			VAN ALSTINE ROAD		SIDE ROAD RADIUS RETURN	20	–
312+39 LT			JAGLA LANE		SIDE ROAD RADIUS RETURN	20	–
327+12 LT			ROCKY RIPS ROAD		SIDE ROAD RADIUS RETURN	20	–
338+58			PIPE 34-055-020		CULVERT PIPE TRANSITION	–	182
340+54 RT			MEMORIAL DRIVE		SIDE ROAD RADIUS RETURN	20	–
347+19 RT			BLUE GOOSE DRIVE		SIDE ROAD RADIUS RETURN	20	–
PE/FE/CE					DRIVEWAYS	1200	–
UNDISTRIBUTED						100	55
					TOTALS:	5650	900

RIPRAP
GEOTEXTILE FABRIC

STATION		COMMENTS	606.0100 RIPRAP LIGHT (CY)	606.0200 RIPRAP MEDIUM (CY)	645.0120 GEOTEXTILE FABRIC TYPE HR (SY)	645.0130 GEOTEXTILE FABRIC TYPE R (SY)
STA 49+59	LT	DISCHARGE END OF PIPE 34-055-004	–	5	20	–
STA 338+54	RT	INLET END OF PIPE 34-055-020	15	–	–	65
		TOTALS:	15	5	20	65

CULVERT PIPE REINFORCED CONCRETE
CUVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
APRON ENDWALLS FOR CULVERT PIPE REINFORCE CONCRETE

STATION	COMMENTS	522.0324 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH (LF)	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH (EACH)	523.0153 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 53x83-INCH (LF)	523.0553 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 53x83-INCH (EACH)	SPV.0060.01 CULVERT PIPE TRANSITIONS (EACH)
STA 49+59	CULVERT 34-055-004	56	2	–	–	1
STA 132+02	CULVERT C-34-11	–	–	128	2	1
STA 338+58	CULVERT 34-055-020	68	2	–	–	1
	TOTALS:	124	4	128	2	3

JOINT TIES FOR CONCRETE PIPE TO BE PLACED AT ALL JOINTS. JOINT TIES INCIDENTAL TO CULVERT PIPE PAY ITEMS.

LANDSCAPING

STATION			STATION			LOCATION	625.0100 TOPSOIL (SY)	629.0210 FERTILIZER TYPE B (CWT)	630.0130 SEEDING MIXTURE NO. 30 (LB)
STA 22+00	LT	–	STA 24+50	LT		SLOPE EMBANKMENT	239	0.2	4.3
STA 29+50	LT	–	STA 33+44	LT		SLOPE EMBANKMENT	447	0.3	8.0
STA 48+50	LT	–	STA 50+50	LT		CULVERT 34-055-004	231	0.2	4.2
STA 48+50	RT	–	STA 50+50	RT		CULVERT 34-055-004	175	0.1	3.2
STA 130+00	LT	–	STA 134+00	LT		CULVERT C-34-11	566	0.4	10.2
STA 130+00	RT	–	STA 134+00	RT		CULVERT C-34-11	889	0.6	16.0
STA 314+48	LT	–	STA 332+16	RT		S.E. CORRECTION SECTION	–	0.5	14.1
STA 314+48	LT	–	STA 332+16	RT		S.E. CORRECTION SECTION	–	0.6	17.7
STA 338+00	LT	–	STA 339+00	LT		CULVERT 34-055-020	86	0.1	1.5
STA 338+00	RT	–	STA 339+00	RT		CULVERT 34-055-020	63	0.1	1.1
PROJECT LIMITS						UNDISTRIBUTED	104	0.3	4.7
						TOTALS:	2800	3.2	85.0

NOTES: TOPSOIL AREAS INCLUDE 3' FOR ROUNDING PAST THE SLOPE INTERCEPTS.
EROSION MAT, SEED, AND FERTILIZER AREAS EQUAL TOPSOIL AREAS.

HMA PAVEMENT

STATION		STATION	LOCATION	COMMENTS	455.0605 TACK COAT (GAL)	460.5224 HMA PAVEMENT 4 LT 58-28 S (TON)	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS (LF)	465.0110 ASPHALTIC SURFACE PATCHING (TON)
3+60	-	21+00	STH 55	MAINLINE (*)	412	680	1740	-
21+00	-	37+40	STH 55	MAINLINE (*)	408	650	1640	-
37+40	-	46+90	STH 55	MAINLINE (*)	210	360	950	-
46+90	-	53+75	STH 55	MAINLINE (*)	168	270	685	-
53+75	-	93+24	STH 55	MAINLINE (*)	862	1510	3949	-
93+24	-	125+08	STH 55	MAINLINE (*)	695	1220	3184	-
125+08	-	138+28	STH 55	MAINLINE (*)	288	500	1320	-
138+28	-	148+00	STH 55	MAINLINE (*)	212	380	972	-
148+00	-	218+50	STH 55	MAINLINE (*)	1535	2550	7050	-
218+50	-	283+32	STH 55	MAINLINE (*)	1412	2350	6482	-
283+32	-	312+39	STH 55	MAINLINE (*)	634	1050	2907	-
312+39	-	314+48	STH 55	MAINLINE (*)	46	80	219	-
314+48	-	327+12	STH 55	S.E. CORRECTIVE LEVELING	92	250	-	-
314+48	-	327+12	STH 55	MAINLINE (*)	316	460	1264	-
327+12	-	332+16	STH 55	S.E. CORRECTIVE LEVELING	48	50	-	-
327+12	-	332+16	STH 55	MAINLINE (*)	126	180	504	-
332+16	-	340+54	STH 55	MAINLINE (*)	190	305	838	-
340+54	-	347+16	STH 55	MAINLINE (*)	144	240	662	-
347+16	-	353+34	STH 55	MAINLINE (*)	148	250	618	-
21+00 LT			LOG CABIN ROAD	SIDE ROAD	26	40	-	-
37+40 LT			LOG CABIN DRIVE	SIDE ROAD	26	40	-	-
46+90 LT			CTH M	SIDE ROAD	26	40	-	-
53+75 RT			CTH WW	SIDE ROAD	26	40	-	-
93+24 RT			ELST ROAD	SIDE ROAD	26	40	-	-
128+77 RT			MARKTON DR. - SOUTH	SIDE ROAD	26	40	-	-
138+28 RT			MARKTON DR. - NORTH	SIDE ROAD	26	40	-	-
218+50 RT			DOEMEL LANE	SIDE ROAD	26	40	-	-
283+32 RT			VAN ALSTINE ROAD	SIDE ROAD	26	40	-	-
312+39 RT			JAGLA LANE	SIDE ROAD	26	40	-	-
318+20 RT			C.E. (ONLY IF CE IS PAVED)	CE	0	80	-	-
327+12 LT			ROCKY RIPS ROAD	SIDE ROAD	26	40	-	-
340+54 RT			MEMEORIAL DRIVE	SIDE ROAD	26	40	-	-
347+19 RT			BLUE GOOSE DRIVE	SIDE ROAD	26	40	-	-
49+59			PIPE 34-055-004	TRANSITION CUT PATCHING	-	65	-	-
132+02			PIPE C-34-11	TRANSITION CUT PATCHING	-	65	-	-
338+58			PIPE 34-055-020	TRANSITION CUT PATCHING	-	50	-	-
UNDISTRIBUTED			PROJECT LIMITS		46	110	-	40
				TOTALS:	8330	14225	34984	40
								(**)

(*) INCLUDES PAVED SHOULDER WIDENING

(**) AS NEEDED AFTER MILLING FOR POTHOLES

ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL
PAVEMENT MARKING

STATION		STATION		LOCATION	COMMENTS	465.0475 ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL (LF)	646.0106 PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (LF)	646.0106 PAVEMENT MARKING EPOXY 4-INCH (WHITE) (LF)	646.0406 PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW) (LF)	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE) (LF)	648.0100 LOCATING NO-PASSING ZONES (MI)	649.0402 TEMPORARY PAVEMENT MARKING PAINT 4-INCH (YELLOW) (LF)
3+60		353+76		CENTERLINE	TEMPORARY PAVT MRKG (AFTER MILLING ASPH PAVT)	-	-	-	-	-	-	46478
3+60		353+76		CENTERLINE	SAME DAY PERMANENT PAVT MRKG (BEFORE CUTTING RUMBLE STRIPS)	-	-	-	49558	-	-	-
3+60		353+76		CENTERLINE	PERMANENT PAVT MRKG (AFTER CUTTING RUMBLE STRIPS)	-	49558	-	-	-	-	-
3+60	LT	353+76	LT	EDGELINE	PERMANENT PAVEMENT MARKING (DEDUCT 450' FOR SIDEROADS)	-	-	34566	-	-	-	-
3+60	RT	353+76	RT	EDGELINE	PERMANENT PAVEMENT MARKING (DEDUCT 500' FOR SIDE ROADS)	-	-	34516	-	-	-	-
353+76	RT			STH 64 INTERSECTION	18" STOP BAR (PERMANENT PAVEMENT MARKING)	-	-	-	-	15	-	-
3+60		340+30		CENTERLINE (RUMBLE STRIP)	ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL	26870	-	-	-	-	6.38	-
UNDISTRIBUTED						-	42	18	42	-	-	22
					SUB-TOTALS:	26870	49600	69100	49600	15	6.38	46500
					TOTALS:	26870		118700	49600	15	6.38	46500

NOTES:
STATIONING IS APPROXIMATE.
PAVEMENT MARKING TO BE APPLIED AS PER THE APPROPRIATE STANDARD DETAIL DRAWING (SDD) AND AS PER "SPOTTING" FOR LOCATING NO-PASSING ZONES PAY ITEM.

EROSION CONTROL

STATION	STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.1905 MOBILIZATIONS EROSION CONTROL (EACH)	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)	628.2008 EROSION MAT URBAN CLASS I TYPE B (SY)	628.7555 CULVERT PIPE CHECKS (EACH)	628.7570 ROCK BAGS (EACH)
PROJECT LIMITS		PROJECT LIMITS	-	-	4	3	-	-	-
STA 22+00 LT	STA 24+50 LT	SLOPE EMBANKMENT	260	260	-	-	239	-	-
STA 29+50 LT	STA 33+44 LT	SLOPE EMBANKMENT	405	405	-	-	447	-	-
STA 49+00 LT	STA 24+50 LT	CULVERT 34-055-004	110	110	-	-	231	-	-
STA 49+00 RT	STA 24+50 RT	CULVERT 34-055-004	110	110	-	-	175	1	10
STA 129+50 LT	STA 134+50 LT	CULVERT C-34-11	570	570	-	-	566	-	60
STA 129+50 RT	STA 134+50 RT	CULVERT C-34-11	570	570	-	-	889	-	90
STA 338+25 LT	STA 339+00 LT	CULVERT 34-055-020	80	80	-	-	86	-	-
STA 338+25 RT	STA 339+00 RT	CULVERT 34-055-020	80	80	-	-	63	1	10
UNDISTRIBUTED		PROJECT LIMITS	546	546	-	-	94	2	43
		TOTALS:	2,731	2731	4	3	2790	4	213

NOTES: ROCK BAGS TO BE USED AS SHOWN IN CONSTRUCTION DETAILS AS A CULVERT PIPE CHECK OR USED AS SILT FENCE RELIEF.
ROCK BAGS USED AS CULVERT PIPE CHECK WILL BE PLACED AT THE INLET SIDE OF THE PIPE, AS SHOWN IN THE CONSTRUCTION DETAIL.

TEMPORARY WATER DIVERSION - DEMSPTER CREEK

STATION	LOCATION	SPV.0105.01 TEMPORARY WATER DIVERSION - DEMPSTER CREEK (LS)
STA 132+02	CULVERT C-34-11	1
	TOTAL:	1

FILE NAME : N:\pds\project_id\9155-14-30(70) SCL-STH64 STH55\Misc-Quant\91551470_MQ.pdf PLOT DATE : PLOT BY : PLOT NAME : PLOT SCALE : 1:1

3

MARKERS CULVERT END

STATION	LOCATION (CULVERT NO.)	COMMENTS	633.5200 MARKERS CULVERT END (EACH)
20+10	34-055-001	CULVERT END MARKERS	2
37+50	34-055-002	CULVERT END MARKERS	2
45+80	34-055-003	CULVERT END MARKERS	2
49+59	34-055-004	CULVERT END MARKERS	2
54+58	34-055-005	CULVERT END MARKERS	2
58+53	34-055-006	CULVERT END MARKERS	2
71+17	34-055-007	CULVERT END MARKERS	2
96+94	34-055-008	CULVERT END MARKERS	2
132+02	C-34-11	CULVERT END MARKERS	2
154+54	34-055-010	CULVERT END MARKERS	2
183+94	34-055-011	CULVERT END MARKERS	2
198+37	34-055-012	CULVERT END MARKERS	2
232+94	34-055-013	CULVERT END MARKERS	2
244+53	34-055-014	CULVERT END MARKERS	2
263+94	34-055-015	CULVERT END MARKERS	2
274+34	34-055-016	CULVERT END MARKERS	2
304+94	34-055-017	CULVERT END MARKERS	2
322+08	34-055-018	CULVERT END MARKERS	2
329+09	34-055-019	CULVERT END MARKERS	2
338+58	34-055-020	CULVERT END MARKERS	2
344+40	34-055-021	CULVERT END MARKERS	2
348+77	34-055-022	CULVERT END MARKERS	2
		TOTAL	44

DELINEATORS AND REFLECTORS

STATION		STATION	COMMENTS	633.0100 DELINEATOR POSTS STEEL (EACH)	633.0500 DELINEATOR REFLECTORS (EACH)
22+00 LT	-	31+00 LT	ROADSIDE DELINEATOR	19	19
				19	19

NOTE: 50-FOOT SPACING

PROTECTIVE THERMOPLASTIC COATING AT SNOWMOBILE TRAIL CROSSINGS

STATION	LOCATION	SPV.0180.01 PROTECTIVE THERMOPLASTIC COATING AT SNOWMOBILE TRAIL CROSSINGS (SY)
STA 349+90	SNOWMOBILE TRAIL CROSSING	50
	TOTAL:	50

3

PERMANENT SIGNING TABLE 1

TABLE 1

SIGN #	STA		SIGN CODE	DESCRIPTION	SIZE (IN x IN)	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	634.0616 WOOD POSTS 4X6 INCH 16 F00T (EACH)	634.0618 WOOD POSTS 4X6 INCH 18 F00T (EACH)	634.0620 WOOD POSTS 4X6 INCH 20 F00T (EACH)	MOUNT ON SAME POST AS SIGN #	COMMENTS
1	3+60	RT	I2-2	LANGLADE CO	66" x 15"	1	1	6.88	–	2	–	–	–	
2	3+80	LT	I2-2R	MENOMINEE CO RESERVATION	66" x 24"	1	1	11.00	–	2	–	–	–	
3	4+00	RT	D7-61	NAT'L FOREST CAMPGROUND	60" x 36"	1	1	15.00	–	2	–	–	–	
4	5+00	RT	J4-1		24" x 36"	1	1	6.00	–	1	–	–	–	
			M3-1	NORTH	24" x 12"									
			M1-6	55	24" x 24"									
5	7+00	RT	R2-1	SPEED LIMIT 55	24" x 30"	–	–	5.00	–	1	–	–	–	
6	7+00	LT	SP-1	SLOW VEHICLE TURNOUTS NEXT 20 MILES	36" x 36"	1	1	9.00	–	1	–	–	–	
7	13+00	LT	W1-4R	ROAD CURVES AHEAD ARROW	30" x 30"	1	1	–	6.25	1	–	–	–	#7 & #8 ON
8	13+00	LT	W13-1	45 MPH WARNING SIGN (YELLOW)	18" x 18"	1	–	–	2.25	–	–	–	8	SAME POST
9	14+00	RT	W11-6	SNOWMOBILE CROSSING	30" x 30"	1	1	–	6.25	1	–	–	–	
10	20+80	LT	R1-1	STOP SIGN	30" x 30"	1	1	5.18	–	1	–	–	–	
	LOG CABIN RD													
11	27+85	LT	W11-6	SNOWMOBILE CROSSING	30" x 30"	1	1		6.25	1	–	–	–	
12	36+70	RT	J1-1		24" x 39"	1	1	6.50	–	1	–	–	–	
			M2-1	JCT	21" x 15"									
			M1-5A	COUNTY M	24" x 24"									
13	37+00	LT	R1-1	STOP SIGN	30" x 30"	1	1	5.18	–	1	–	–	–	
	LOG CABIN RD													
14	40+50	RT	D1-1	WHITE LAKE W/LA	78" x 15"	1	1	8.13	–	2	–	–	–	
15	42+75	LT	R2-1	SPEED LIMIT 55	24" x 30"	–	–	5.00	–	1	–	–	–	
16	44+75	LT	J4-1		24" x 36"	1	1	6.00	–	1	–	–	–	
			M3-3	SOUTH	24" x 12"									
			M1-6	55	24" x 24"									
17	46+60	LT	R1-1	STOP	30" x 30"	1	1	5.18	–	1	–	–	–	
	CTH M													
18	46+80	RT	J13-1		24" x 45"	1	1	7.50	–	–	1	–	–	
			M1-5A	COUNTY M	24" x 24"									
			M6-1	LA	21" x 21"									
19	46+90	RT	J13-1		24" x 45"	1	–	7.50	–	–	1	–	–	SIGN FACES CTH M
			M1-6	55	24" x 24"									
			M6-4	DA	21" x 21"									
20	47+20	LT	J13-1		24" x 45"	0	–	7.50	–	–	1	–	–	
			M1-5A	COUNTY M	24" x 24"									
			M6-1	RA	21" x 21"									
21	47+75	RT	J1-1		24" x 39"	1	1	6.50	–	1	–	–	–	
			M2-1	JCT	21" x 15"									
			M1-5A	WW	24" x 24"									
22	48+00	LT	R2-1	SPEED LIMIT 55	24" x 30"	–	–	5.00	–	1	–	–	–	
23	50+00	LT	D1-1	WHITE LAKE W/RA	78" x 15"	1	1	8.13	–	2	–	–	–	
24	53+00	LT	J1-1		24" x 39"	1	1	6.50	–	1	–	–	–	
			M2-1	JCT	21" x 15"									
			M1-5A	CTH M	24" x 24"									
			SHEET 1		SUB-TOTALS:	20	18	143	21	25	3	0		

PERMANENT SIGNING TABLE 2 TABLE 2

SIGN #	STA		SIGN CODE	DESCRIPTION	SIZE (IN x IN)	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	634.0616 WOOD POSTS 4X6 INCH 16 F00T (EACH)	634.0618 WOOD POSTS 4X6 INCH 18 F00T (EACH)	634.0620 WOOD POSTS 4X6 INCH 20 F00T (EACH)	MOUNT ON SAME POST AS SIGN #	COMMENTS
25	53+60	RT	J13-1		24" x 39"	1	1	6.50	–	1	–	–	–	
			M1-5A	COUNTY WW	24" x 24"									
			M6-1	RA	21" x 21"									
26	53+60	RT	D7-63R	NAT'L FOREST CAMPGROUND W/RA	60" x 36"	1	2	15.00	–	2	–	–	–	#26 & #27 ON
27	53+60	RT	D7-63L	NAT'L FOREST CAMPGROUND W/LA	60" x 36"	1	–	15.00	–	–	–	–	26	SAME POST
28	54+00	LT	J13-1		24" x 45"	1	1	7.50	–	–	1	–	–	
			M1-5A	COUNTY WW	24" x 24"									
			M6-1	LA	21" x 21"									
	CTH W													
29	54+00	RT	R1-1	STOP	30" x 30"	1	1	5.18	–	1	–	–	–	
30	54+10	RT	J13-1		24" x 45"	1	1	7.50	–	–	1	–	–	
			M1-6	55	24" x 24"									
			M6-4	DA	21" x 21"									
31	55+00	RT	J4-1		24" x 36"	1	1	6.00	–	1	–	–	–	
			M3-1	NORTH	24" x 12"									
			M1-6	55	24" x 24"									
32	57+00	RT	R2-1	SPEED LIMIT 55	24" x 30"	–	–	5.00	–	1	–	–	–	
33	62+00	LT	J1-1		24" x 39"	1	1	6.50	–	1	–	–	–	
			M2-1	JCT	21" x 15"									
			M1-5A	WW	24" x 24"									
	ELST RD													
34	93+50	RT	R1-1	STOP	30" x 30"	1	1	5.18	–	1	–	–	–	
35	96+25	RT	S3-1	SCHOOL BUS STOP AHEAD	36" x 36"	1	1	–	9.00	1	–	–	–	
36	99+00	RT	W54-57	TRUCK ENTRANCE	30" x 30"	1	1	6.25	–	1	–	–	–	
37	101+50	LT	D7-61	NAT'L FOREST CAMPGROUND 1 MILE	60" x 36"	1	1	15.00	–	2	–	–	–	
38	118+00	LT	W54-57	TRUCK ENTRANCE	30" x 30"	1	1	6.25	–	1	–	–	–	
39	119+60	LT	S3-1	SCHOOL BUS STOP AHEAD	30" x 30"	1	1	–	6.25	1	–	–	–	
40	124+90	LT	R1-1	STOP	30" x 30"	1	1	5.18	–	1	–	–	–	
	GARDNER DAM RD													
41	126+50	RT	W14-3	NO PASSING ZONE	48" x 36"	1	1	–	6.00	1	–	–	–	
42	127+20	LT	W14-3	NO PASSING ZONE	48" x 36"	1	1	6.00	–	1	–	–	–	
	MARKTON RD													
43	129+00	RT	R1-1	STOP	30" x 30"	1	1	5.18	–	1	–	–	–	
	MARKTON RD													
44	138+50	RT	R1-1	STOP	30" x 30"	1	1	5.18	–	1	–	–	–	
45	158+20	LT	W14-3	NO PASSING ZONE	48" x 36"	1	1	–	6.00	1	–	–	–	
46	161+00	RT	W14-3	NO PASSING ZONE	48" x 36"	1	1	–	6.00	1	–	–	–	
47	193+20	RT	W14-3	NO PASSING ZONE	48" x 36"	1	1	–	6.00	1	–	–	–	
48	196+70	LT	W14-3	NO PASSING ZONE	48" x 36"	1	1	–	6.00	1	–	–	–	
49	215+20	RT	W14-3	NO PASSING ZONE	48" x 36"	1	1	–	6.00	1	–	–	–	
	DOEMEL LN													
50	218+70	RT	R1-1	STOP	30" x 30"	1	1	5.18	–	1	–	–	–	
51	252+70	LT	W14-3	NO PASSING ZONE	48" x 36"	1	1	–	6.00	1	–	–	–	
52	283+00	RT	W14-3	NO PASSING ZONE	48" x 36"	1	1	–	6.00	1	–	–	–	
			SHEET 2		SUB-TOTALS:	27	27	134	63	27	2	0		

PERMANENT SIGNING TABLE 3

SIGN #	STA		SIGN CODE	DESCRIPTION	SIZE (IN x IN)	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	634.0616 WOOD POSTS 4X6 INCH 16 F00T (EACH)	634.0618 WOOD POSTS 4X6 INCH 18 F00T (EACH)	634.0620 WOOD POSTS 4X6 INCH 20 F00T (EACH)	MOUNT ON SAME POST AS SIGN #	COMMENTS
VAN ALSTINE TOWN RD														
53	283+50	RT	R1-1	STOP	30" x 30"	1	1	5.18	-	1	-	-	-	
54	310+20	LT	W14-3	NO PASSING ZONE	48" x 36"	1	1	-	6.00	1	-	-	-	
55	311+20	RT	W1-4R	ROAD CURVES AHEAD ARROW	30" x 30"	1	1	-	6.25	1	-	-	-	#55 & #56 ON
56	311+20	RT	W13-1	45 MPH WARNING SIGN (YELLOW)	18" x 18"	1	-	-	2.25	-	-	-	55	SAME POST
57	312+30	LT	R1-1	STOP	30" x 30"	1	1	5.18	-	1	-	-	-	
JAGLA LN														
58	312+80	RT	I2-3	LANGLADE UNICORPORATED	60" x 24"	1	1	10.00	-	2	-	-	-	
59	314+80	RT	R59-51	STOP SCHOOL BUS FLASHING RED LIGHTS	36" x 36"	1	-	9.00	-	1	-	-	-	
60	316+20	RT	R7-1L	NO PARKING ANY TIME W/LA	18" x 24"	1	1	3.00	-	1	-	-	-	
61	320+00	RT	R7-1D	NO PARKING ANY TIME W/LA-RA	18" x 24"	1	1	3.00	-	1	-	-	-	
62	327+00	LT	R1-1	STOP	30" x 30"	1	1	5.18	-	1	-	-	-	
63	327+10	RT	R7-1R	NO PARKING ANY TIME W/RA	18" x 24"	1	1	3.00	-	1	-	-	-	
ROCKY RIPS RD														
64	330+00	RT	W3-5	SPEED REDUCTION AHEAD 45 M.P.H	36" x 36"	1	1	-	9.00	1	-	-	-	
65	331+00	RT	D5-63	HISTORICAL MARKER 1/2 MILE	60" x 36"	1	1	15.00	-	2	-	-	-	
66	332+00	RT	R7-1L	NO PARKING ANY TIME W/LA	18" x 24"	1	1	3.00	-	1	-	-	-	
67	339+20	RT	R7-1R	NO PARKING RT	18" x 24"	1	1	3.00	-	1	-	-	-	
68	339+30	LT	R2-1	SPEED LIMIT 55	24" x 30"	1	1	5.00	-	1	-	-	-	
69	340+00	RT	R2-1	SPEED LIMIT 45	24" x 30"	1	1	5.00	-	1	-	-	-	
MEMORIAL DR														
70	340+70	RT	R1-1	STOP	30" x 30"	1	1	5.18	-	1	-	-	-	
71	341+00	LT	-	STOP AHEAD	-	1	1	-	-	-	-	-	-	REMOVAL ONLY
72	341+20	RT	-	STOP AHEAD	-	1	1	-	-	-	-	-	-	REMOVAL ONLY
73	344+40	RT	W3-1	STOP AHEAD	36" x 36"	1	1	-	9.00	1	-	-	-	
74	344+40	LT	W3-1	STOP AHEAD	36" x 36"	-	-	-	9.00	1	-	-	-	
75	345+90	LT	R2-1	SPEED LIMIT 45	24" x 30"	2	1	5.00	-	1	-	-	-	
76	346+90	RT	R7-1L	NO PARKING ANY TIME W/LA	18" x 24"	1	1	3.00	-	1	-	-	-	
BLUE GOOSE DR														
77	347+30	RT	R1-1	STOP	30" x 30"	1	1	5.18	-	1	-	-	-	
			SHEET 3		SUB-TOTALS:	25	22	93	42	24	0	0		

PERMANENT SIGNING TABLE 4

SIGN #	STA		SIGN CODE	DESCRIPTION	SIZE (IN x IN)	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	634.0616 WOOD POSTS 4X6 INCH 16 F00T (EACH)	634.0618 WOOD POSTS 4X6 INCH 18 F00T (EACH)	634.0620 WOOD POSTS 4X6 INCH 20 F00T (EACH)	MOUNT ON SAME POST AS SIGN #	COMMENTS
78	347+80	RT	J1-1		24" x 39"	–	–	6.00	–	1	–	–	–	
			M2-1	JCT	24" x 15"									
			M1-6	64	24" x 24"									
79	348+70	LT	W14-3	NO PASSING ZONE	48" x 36"	1	1	–	6.00	1	–	–	–	
80	349+00	LT	R7-1D	NO PARKING ANY TIME W/LA-RA	18" x 24"	1	1	3.00	–	1	–	–	–	
81	349+70	RT	J2-2		48" x 57"	–	–	6.00	–	1	–	–	–	
			M3-4	WEST	24" x 12"									
			M1-6	64	24" x 24"									
			M5-1L	ADVANCE LA	21" x 21"									
			M3-2	EAST	24" x 12"									
			M1-6	64	24" x 24"									
			M5-1R	ADVANCE RA	21" x 21"									
82	350+50	LT	R7-1D	NO PARKING ANY TIME W/LA-RA	18" x 24"	1	1	3.00	–	1	–	–	–	
83	351+00	RT	D1-2	ANTIGO LA, MOUNTAIN RA	66" x 30"	1	2	13.75	–	2	–	–	–	#83 & #84 ON
84	351+00	RT	R7-1R	NO PARKING ANY TIME W/RA	18" x 24"	1	–	3.00	–	–	–	–	83	SAME POST
85	351+40	LT	D2-2	KESHENA 24, SHAWNO 34	78" x 24"	1	1	13.00	–	2	–	–	–	
86	352+00	LT	R2-1	SPEED LIMIT 45	24" x 30"	1	–	5.00	–	1	–	–	–	
87	352+60	LT	J4-1		24" x 36"	1	1	6.00	–	1	–	–	–	
			M3-3	SOUTH	24" x 12"									
			M1-6	55	24" x 24"									
88	353+50	LT	R7-1D	NO PARKING ANY TIME W/LA-RA	18" x 24"	1	–	3.00	–	1	–	–	–	
89	353+70	LT	J3-3		72" x 57"	1	2	28.50	–	–	–	2	–	
			M3-1	NORTH	24" x 12"									
			M1-6	55	24" x 24"									
			M6-1	LA	21" x 21"									
			M3-2	EAST	24" x 12"									
			M1-6	64	24" x 24"									
			M6-1	STRAIGHT ARROW	21" x 21"									
			M3-3	SOUTH	24" x 12"									
			M1-6	55	24" x 24"									
			M6-1	RA	21" x 21"									
90	354+00	LT	R1-1	STOP	30" x 30"	1	–	5.18	–	–	–	–	91	ON EXISTING BEACON POLE
91	354+00	LT	R1-3P	ALL WAY	18" x 6"	1	–	0.75	–	–	–	–	90	ON EXISTING BEACON POLE
92	354+00	RT	R1-1	STOP	30" x 30"	1	–	5.18	–	–	–	–	93	ON EXISTING BEACON POLE
93	354+00	RT	R1-3P	ALL WAY	18" x 6"	1	–	0.75	–	–	–	–	92	ON EXISTING BEACON POLE
	STH 64													
			SHEET 4		SUB-TOTALS:	14	9	102	6	12	0	2		

PERMANENT SIGNING TABLE 5 TABLE 5

SIGN #	STA		SIGN CODE	DESCRIPTION	SIZE (IN x IN)	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	634.0616 WOOD POSTS 4X6 INCH 16 F00T (EACH)	634.0618 WOOD POSTS 4X6 INCH 18 F00T (EACH)	634.0620 WOOD POSTS 4X6 INCH 20 F00T (EACH)	MOUNT ON SAME POST AS SIGN #	COMMENTS
94	354+40	LT	R1-1	STOP	30" x 30"	1	-	5.18	-	-	-	-	95	ON EXISTING BEACON POLE
95	354+40	LT	R1-3P	ALL WAY	18" x 6"	1	-	0.75	-	-	-	-	94	ON EXISTING BEACON POLE
96	354+40	LT	J3-3		72" x 57"	1	2	28.50	-	-	-	2	-	
			M3-2	EAST	24" x 12"									
			M1-6	64	24" x 24"									
			M6-1	LA	21" x 21"									
			M3-2	SOUTH	24" x 12"									
			M1-6	55	24" x 24"									
			M6-1	STRAIGHT ARROW	21" x 21"									
			M3-3	WEST	24" x 12"									
			M1-6	64	24" x 24"									
			M6-1	RA	21" x 21"									
97	354+40	RT	R1-1	STOP	30" x 30"	1	-	5.18	-	-	-	-	98	ON EXISTING BEACON POLE
98	354+40	RT	R1-3P	ALL WAY	18" x 6"	1	-	0.75	-	-	-	-	97	ON EXISTING BEACON POLE
99	354+50	RT	J3-3		72" x 57"	1	2	28.50	-	-	-	2	-	
			M3-4	WEST	24" x 12"									
			M1-6	64	24" x 24"									
			M6-1	LA	21" x 21"									
			M3-3	NORTH	24" x 12"									
			M1-6	55	24" x 24"									
			M6-1	STRAIGHT ARROW	21" x 21"									
			M3-4	EAST	24" x 12"									
			M1-6	64	24" x 24"									
			M6-1	RA	21" x 21"									
100	354+50	RT	J3-3		72" x 57"	1	2	28.50	-	-	-	2	-	
			M3-3	SOUTH	24" x 12"									
			M1-6	55	24" x 24"									
			M6-1	LA	21" x 21"									
			M3-4	WEST	24" x 12"									
			M1-6	64	24" x 24"									
			M6-1	STRAIGHT ARROW	21" x 21"									
			M3-1	NORTH	24" x 12"									
			M1-6	55	24" x 24"									
			M6-1	RA	21" x 21"									
			SHEET 5		SUB-TOTALS:	7	6	97.36	0	0	0	6		
			PROJECT		**TOTALS:**	93	82	569	132	88	5	8		

TRAFFIC CONTROL

STATION		STATION	LOCATION	643.0100 TRAFFIC CONTROL (PROJECT) 9155-14-70 (EACH)	643.0300 TRAFFIC CONTROL DRUMS (DAY)	643.0420 TRAFFIC CONTROL BARRICADES TYPE III (DAY)	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A (DAY)	643.0900 TRAFFIC CONTROL SIGNS (DAY)	643.1050 TRAFFIC CONTROL SIGNS PCMS (DAY)	643.2000 TRAFFIC CONTROL DETOUR (PROJECT) 9155-14-70 (EACH)	643.3000 TRAFFIC CONTROL DETOUR SIGNS (DAY)
PROJECT LIMITS											
STA 3+60	-	STA 353+34	STH 55	1	-	-	-	2664	-	-	-
SLOPE EMBANKMENT											
STA 22+00 LT	-	STA 24+50 LT	STH 55	-	504	-	-	-	-	-	-
STA 29+50 LT	-	STA 33+44 LT	STH 55	-	720	-	-	-	-	-	-
PIPE REPLACEMENTS											
STA 49+59			PIPE 34-055-004	-	936	-	-	84	-	-	-
STA 338+58			PIPE 34-055-020	-	936	-	-	84	-	-	-
DETOUR											
PROJECT LIMITS AND DETOUR ROUTE			REPLACEMENT OF OLD PIPE 34-055-009 (C-34-11 NEW)	-	-	225	220	-	28	1	1740
UNDISTRIBUTED				-	154	11	10	143	-	-	90
			TOTALS:	1	3250	236	230	2975	28	1	1830

NOTES: TRAFFIC CONTROL SIGNS PCMS TO BE PLACED AND USED ONE WEEK PRIOR TO START OF DETOUR AND USED DURING THE WORK WEEK OF THE DETOUR.
AT THE PIPE REPLACEMENTS, PLACE ADDITIONAL SIGNING AS SHOWN IN "TRAFFIC CONTROL - TEMP SIGNING DETAIL", UNTIL ASPHALTIC SURFACE IS PLACED AT PIPE TRENCH.

CONSTRUCTION STAKING

STATION		STATION	LOCATION	650.6000 CONSTRUCTION STAKING PIPE CULVERTS (EACH)	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE (LF)	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 9155-14-70 (LS)	650.9920 CONSTRUCTION STAKING SLOPE STAKES (LF)
STA 3+60	-	STA 353+34	STH 55 MAINLINE	-	34974	1	-
STA 22+00 LT	-	STA 24+50 LT	SLOPE EMBANKMENT	-	-	-	250
STA 29+50 LT	-	STA 33+44 LT	SLOPE EMBANKMENT	-	-	-	394
STA 49+59			CULVERT 34-055-004	1	-	-	-
STA 132+02			CULVERT C-34-11	1	-	-	-
STA 338+58			CULVERT 34-055-020	1	-	-	-
				3	34974	1	644

SAWING ASPHALT

STATION	LOCATION	690.0150 SAWING ASPHALT (LF)
STA 49+04	CULVERT 34-055-004	30
STA 50+14	CULVERT 34-055-004	30
STA 131+97	CULVERT C-34-11	22
STA 132+57	CULVERT C-34-11	22
STA 338+26	CULVERT 34-055-020	31
STA 338+90	CULVERT 34-055-020	31
STA 338+58 LT	EAST END CULV 34-055-020 AT PARKING LOT AND RIPRAP	16
	TOTAL:	182

FILE NAME : N:\pds\project_id\9155-14-30(70) SCL-STH64 STH55\Misc-Quant\91551470_MQ.pdf PLOT DATE : PLOT BY : PLOT NAME : PLOT SCALE : 1:1

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
1	46+72	57' LT - SPIKE IN POWER POLE	1088.13
2	53+47	154.2' RT - SPIKE IN POWER POLE	1103.71

N

BM2

STH 55

51+00

50+00

49+00

48+00

EXISTING CENTERLINE ROADWAY PROFILE
MAINTAIN PROFILE (MILL & OVERLAY)

WETLAND BOUNDARY

EXISTING DRIVEWAY PIPE (TO REMAIN)

ABANDONING CULVERT PIPES
STA 48+45, 30'RT TO STA 51+18, 30'RT
12" UNDERDRAIN
BACKFILL CONTROLLED LOW STRENGTH

12" UNDERDRAIN CMCP

PIPE 34-055-004
STA 49+59
CPCR 24-INCH CLASS IV REQD
TWO APRON ENDWALLS CPRC 24-INCH REQD

RIPRAP MEDIUM REQD
STA 49+59 LT
GEOTEXTILE FABRIC TYPE HR REQD
SEE CONSTRUCTION DETAIL

REMOVING SMALL PIPE CULVERTS, PARTIAL LENGTH
STA 49+34 RT
SEE CONSTRUCTION DETAIL

REMOVING SMALL PIPE CULVERTS, PARTIAL LENGTH
STA 49+53 LT
SEE CONSTRUCTION DETAIL

ABANDONING CULVERT PIPES
24" CMCP
STA 49+53
BACKFILL CONTROLLED LOW STRENGTH

24" CMCP

18" CMCP

REMOVING SMALL PIPE CULVERTS, PARTIAL LENGTH
STA 49+34 LT
SEE CONSTRUCTION DETAIL

JUNCTION UNDERDRAIN SYSTEM
7'-8' APPROX DEPTH TO JUNCTION UNDER DRAIN SYSTEM

ABANDONING CULVERT PIPES
STA 49+34
18" CMCP
BACKFILL CONTROLLED LOW STRENGTH

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

12" UNDERDRAIN CMCP

BM1

STH 55

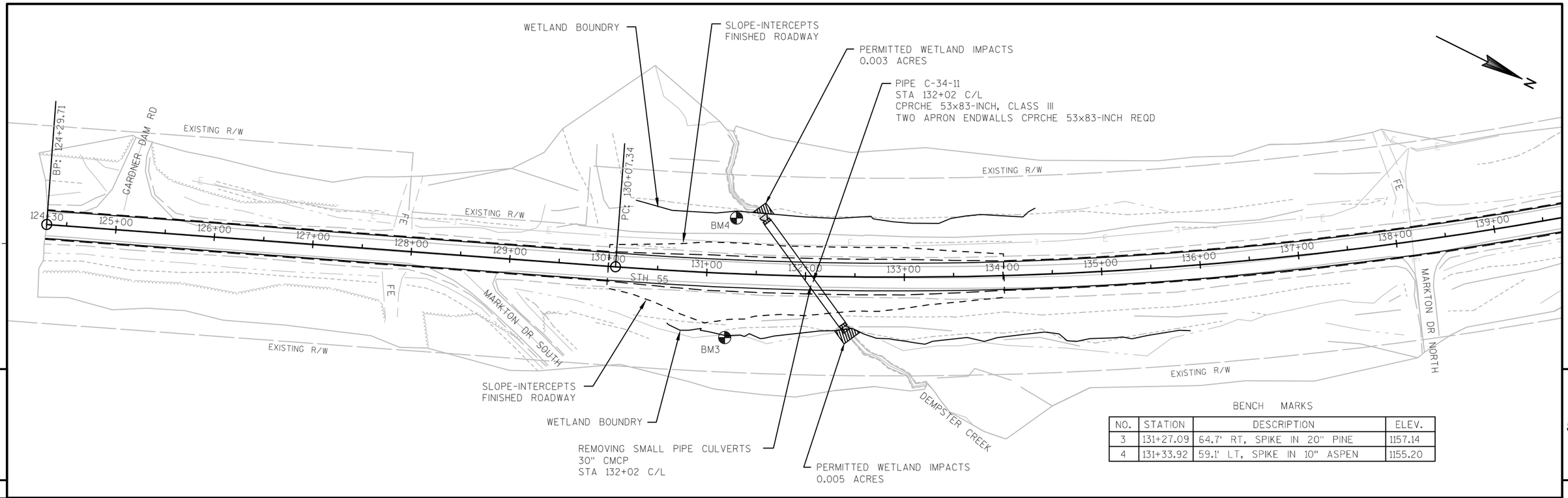
5

5

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PLAN: CULVERT 34-055-004	SHEET 43	E

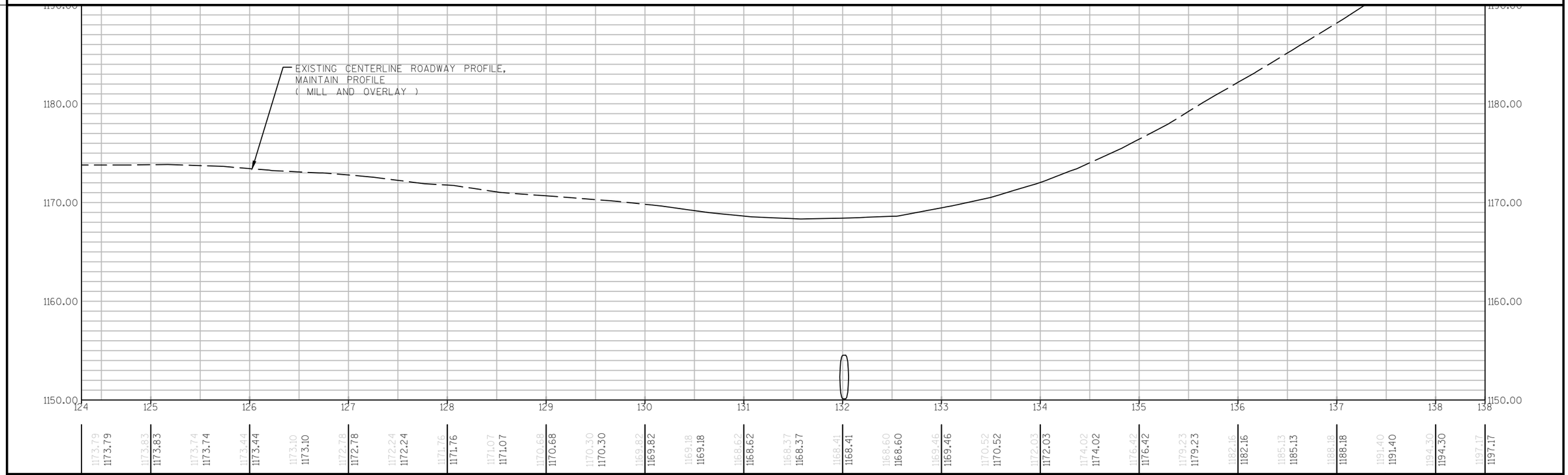
FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\050201_PN_PIPE004.DWG
LAYOUT NAME - ****

PLOT DATE : 2/15/2016 4:22 PM PLOT BY : BAIER, GERARD M PLOT NAME : PLOT SCALE : 1 IN:40 FT



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
3	131+27.09	64.7' RT, SPIKE IN 20" PINE	1157.14
4	131+33.92	59.1' LT, SPIKE IN 10" ASPEN	1155.20



PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PLAN AND PROFILE: PIPE C-34-11	SHEET 44	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
5	338+89.2	82.6' RT	1260.95
		PAINT MARK, SW CORNER CONC STEP	
6	339+30.2	47.3' LT	1249.18
		NAIL, EAST SIDE POWER POLE	

N

EXISTING R/W

BM6

OH

5

EXISTING CENTERLINE ROADWAY PROFILE
MAINTAIN PROFILE (MILL & OVERLAY)

REMOVING SMALL PIPE CULVERTS
24" CMCP
STA 338+58 C/L

PT: 340+05.69

337+00
STH 55
338+00
339+00
340+00
STH 55

PIPE 34-055-020
STA 338+58 C/L
24" CPRC CLASS IV REQD
TWO APRON ENDWALLS 24" REQD

EXCAVATION COMMON REQD

RIPRAP REQD
(SEE CONSTRUCTION DETAIL)

1255 1256 1257 1258 1259

REMOVING ASPHALT PAVEMENT REQD
(INCIDENTAL TO EXCAVATION COMMON)

SAWING ASPHALT REQD

SLOPE INTERCEPTS

DRIVEWAY
TOWN HALL

EXISITNG R/W

EXISITNG R/W

EXISITNG R/W

DRIVEWAY TO
PARKING LOT

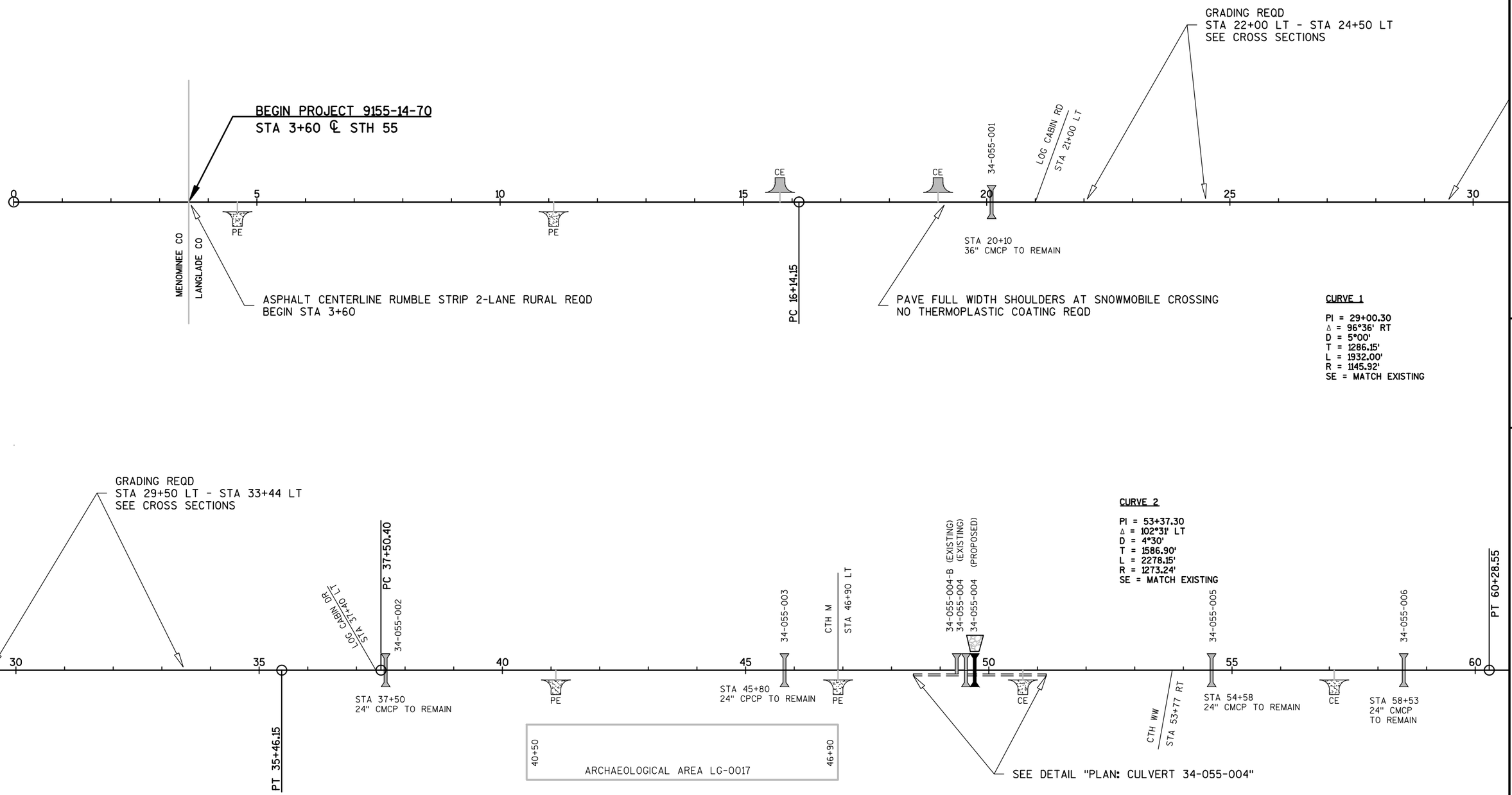
BM5

TOWN
HALL

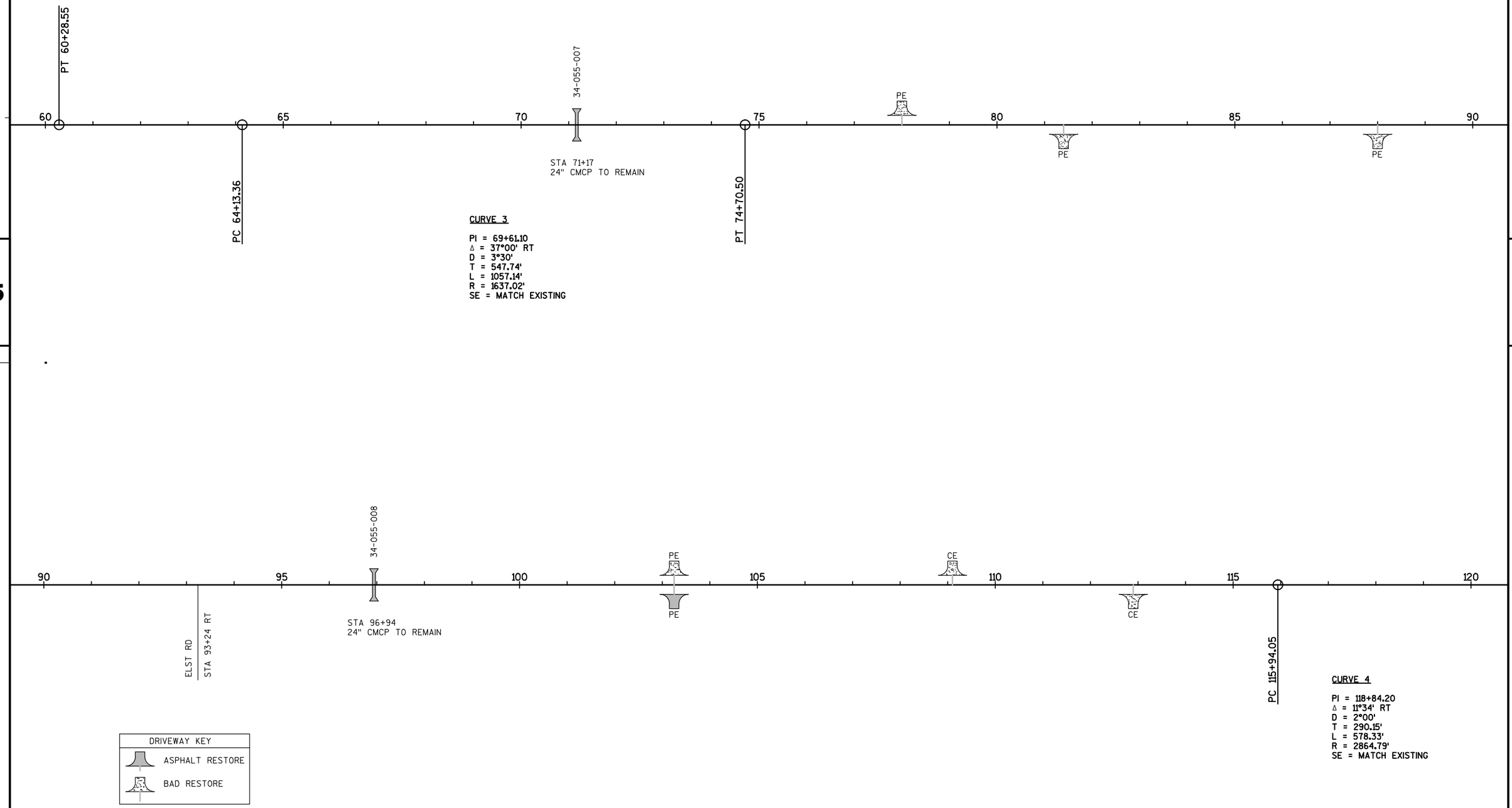
PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PLAN: PIPE 34-055-020	SHEET 45	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\050201_PN_PIPE20.DWG
LAYOUT NAME - 050201

PLOT DATE : 12/7/2015 8:34 AM PLOT BY : BAIER, GERARD M PLOT NAME : PLOT SCALE : 1 IN:20 FT

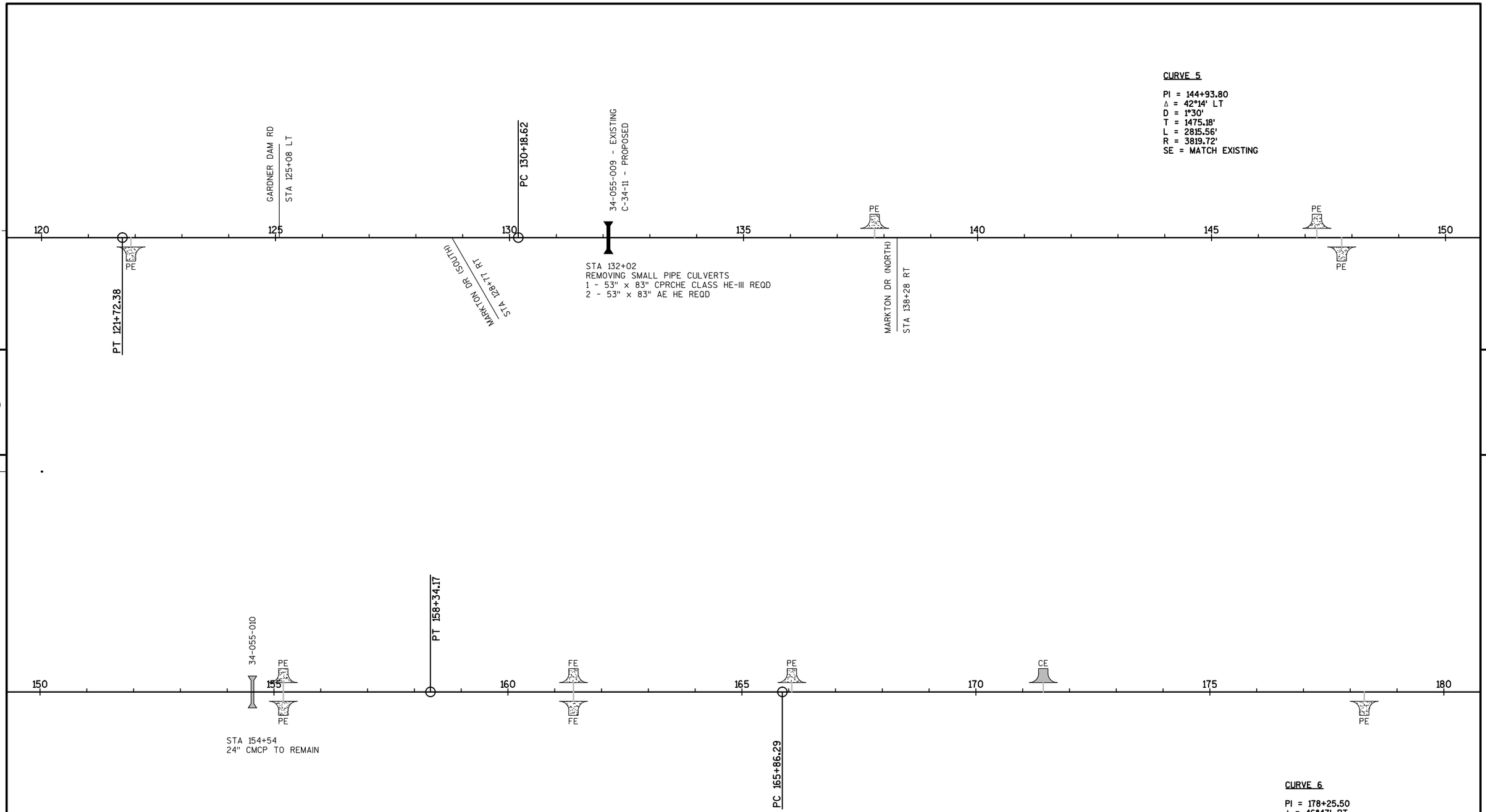


PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	LINE DIAGRAM	SHEET 46	E



PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	LINE DIAGRAM	SHEET 47	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\050401_LD.DWG PLOT DATE : 10/1/2015 11:13 AM PLOT BY : BAIER, GERARD M PLOT NAME : PLOT SCALE : 1 IN:200 FT

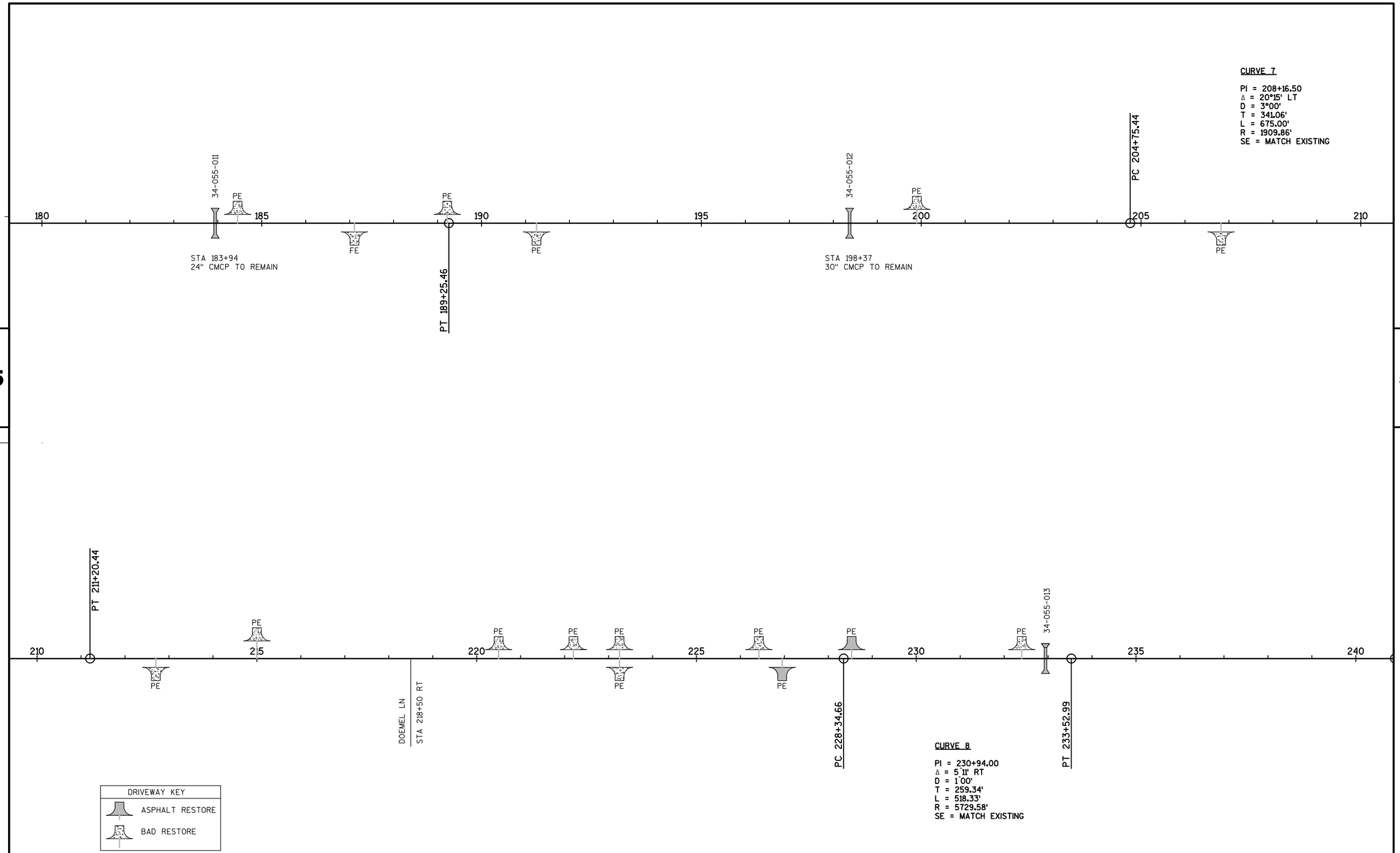


5

5

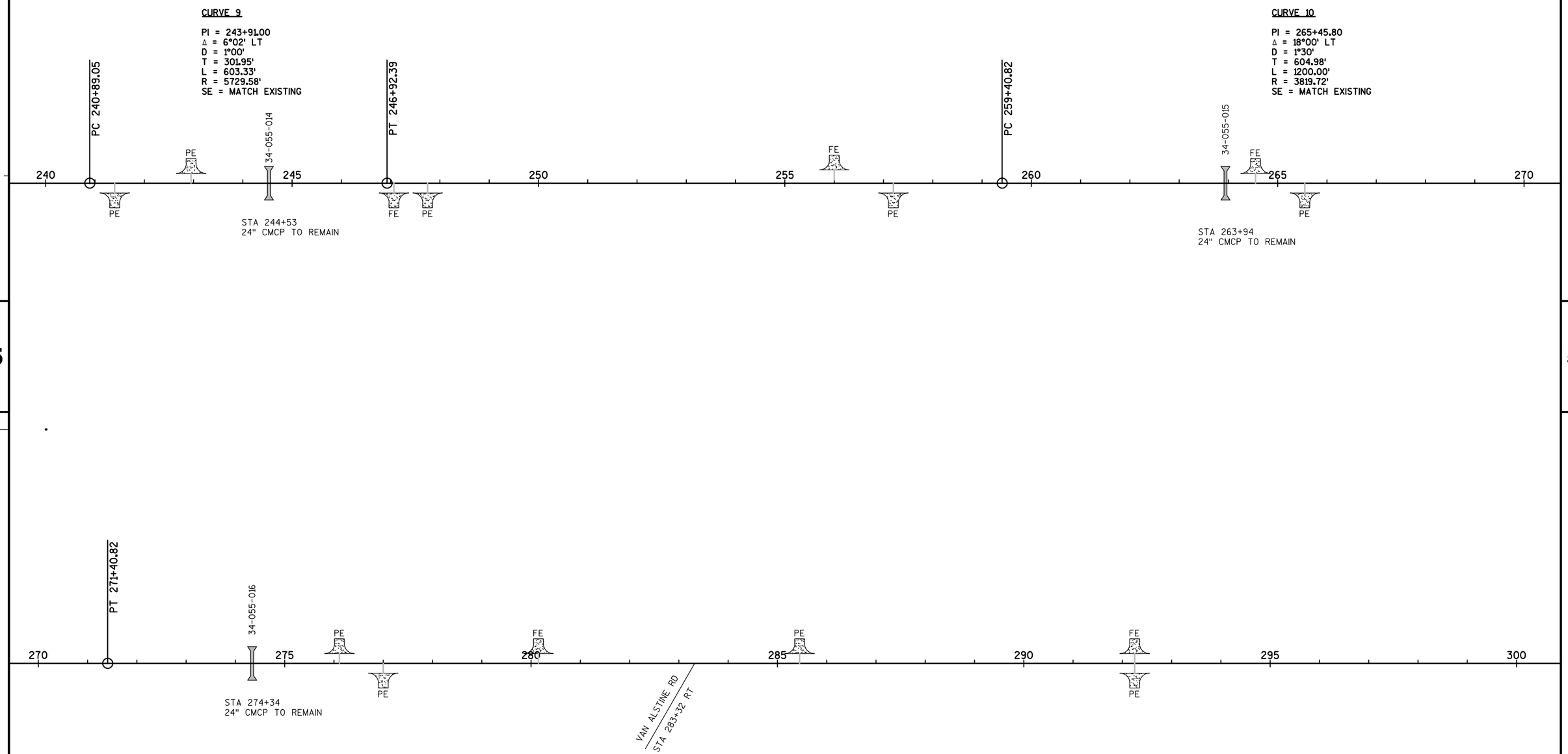
PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	LINE DIAGRAM	SHEET 48	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\050401_LD.DWG PLOT DATE : 10/1/2015 11:13 AM PLOT BY : BAIER, GERARD M PLOT NAME : PLOT SCALE : 1 IN:200 FT



PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	LINE DIAGRAM	SHEET 49	E

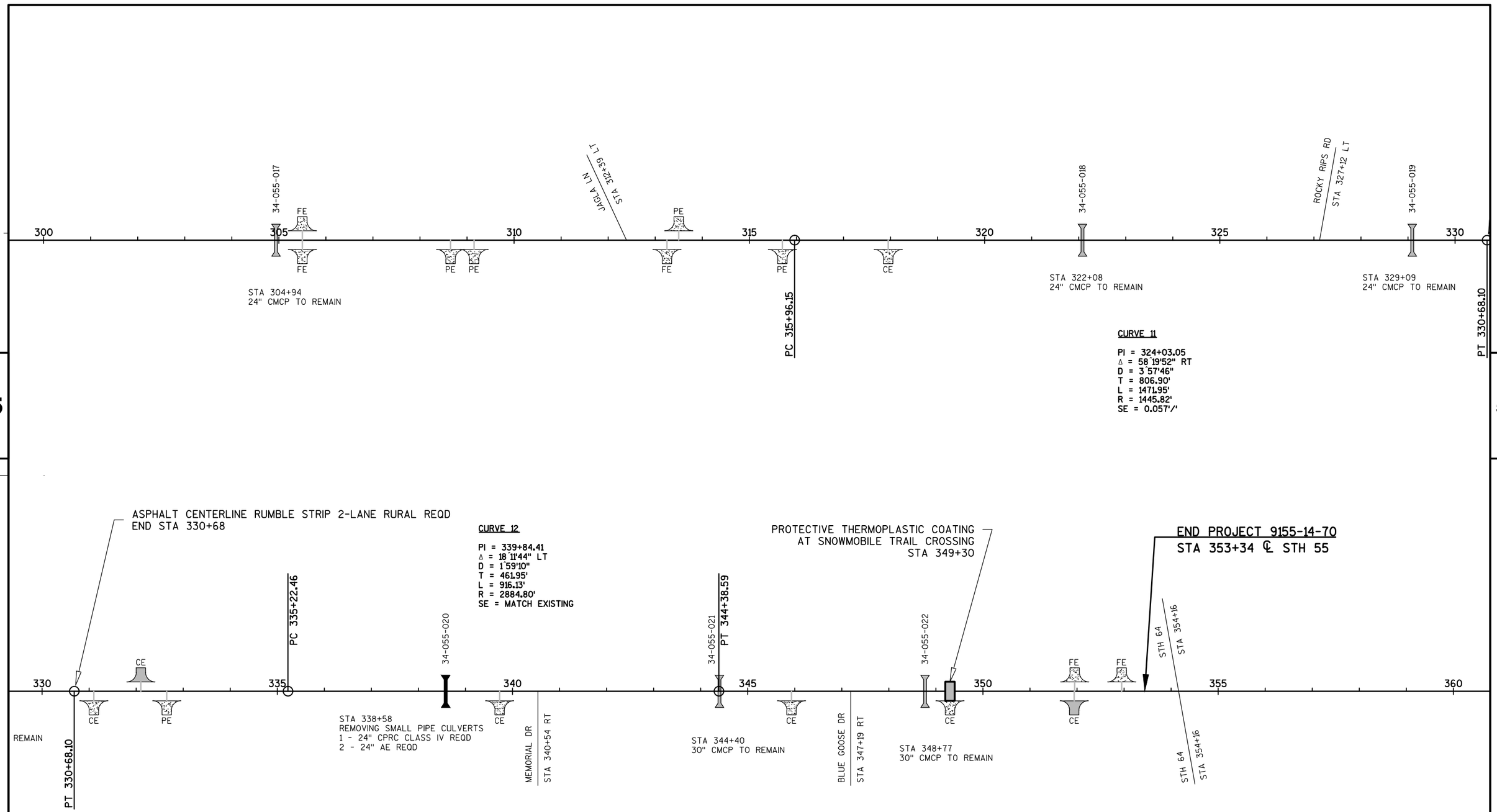
FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\050401_LD.DWG PLOT DATE : 12/7/2015 1:55 PM PLOT BY : BAIER, GERARD M PLOT NAME : PLOT SCALE : 1 IN:200 FT



PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	LINE DIAGRAM	SHEET 50	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\050401_LD.DWG PLOT DATE : 10/1/2015 11:13 AM PLOT BY : BAIER, GERARD M PLOT NAME : PLOT SCALE : 1 IN:200 FT

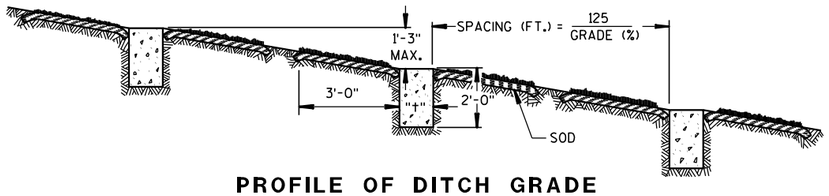
WISDOT/CADDS SHEET 44



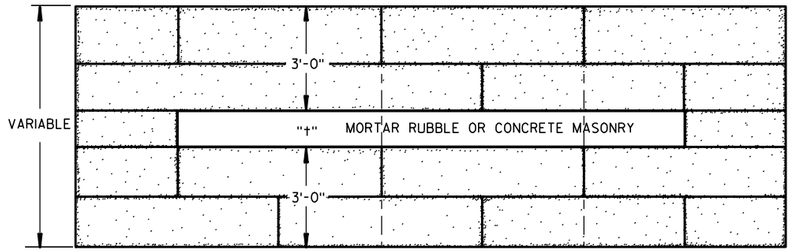
PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	LINE DIAGRAM	SHEET 51	E

Standard Detail Drawing List

08E04-02	SOD OR MASONRY AND SOD DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
15A02-08	DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-03A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

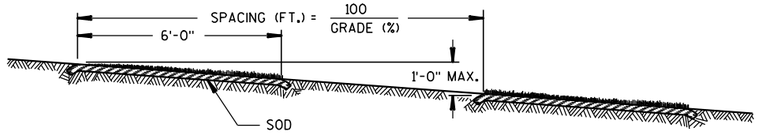


PROFILE OF DITCH GRADE

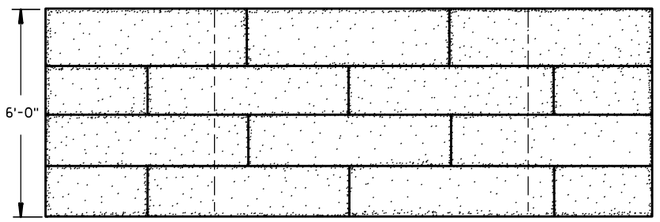


PLAN VIEW SHOWING MASONRY AND SOD

"+" - MASONRY THICKNESS SHALL BE 0'-9" FOR CONCRETE AND 1'-0" FOR MORTAR RUBBLE.



PROFILE OF DITCH GRADE



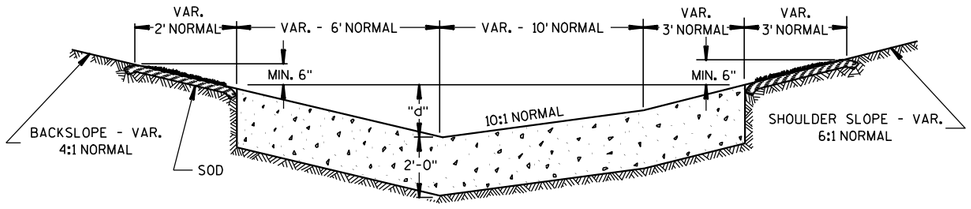
PLAN VIEW SHOWING SOD

GENERAL NOTES

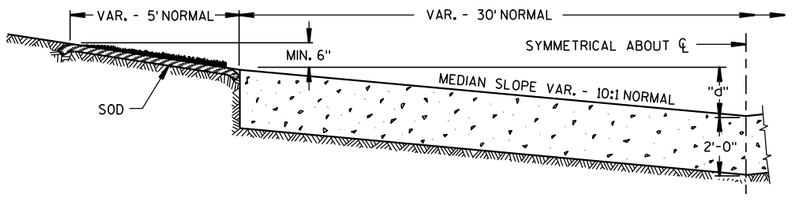
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALTERNATE DESIGNS FOR DITCH CHECKS, OF THE MATERIAL OR COMBINATION OF MATERIALS SHOWN HEREON, MAY BE USED UPON WRITTEN PERMISSION OF THE ENGINEER.

SOD STRIPS FOR DITCH CHECKS MAY BE PLACED EITHER TRANSVERSELY OR LONGITUDINALLY TO THE DIRECTION OF WATER FLOW.



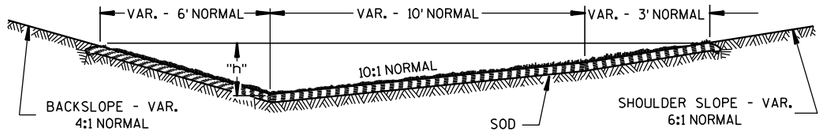
SIDE DITCH CROSS SECTION



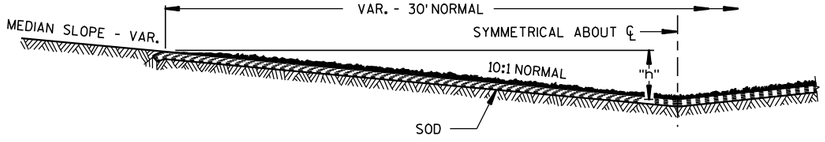
MEDIAN DITCH CROSS SECTION

"d" - THE MINIMUM DEPTH OF THE MASONRY PORTION OF THE DITCH CHECKS SHALL BE EQUAL TO THE MAXIMUM DEPTH OF FLOW. THE NORMAL "d" WILL BE 1'-6".

MASONRY AND SOD DITCH CHECKS



SIDE DITCH CROSS SECTION



MEDIAN DITCH CROSS SECTION

"h" - THE MINIMUM HEIGHT OF DITCH TO BE SODDED SHALL BE EQUAL TO THE MAXIMUM DEPTH OF FLOW PLUS 6". THE NORMAL "h" WILL BE 1'-6".

SOD DITCH CHECKS

SOD OR MASONRY AND SOD DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/7/71 — DATE

/S/ L.C. Harris — ACTING CHIEF DESIG

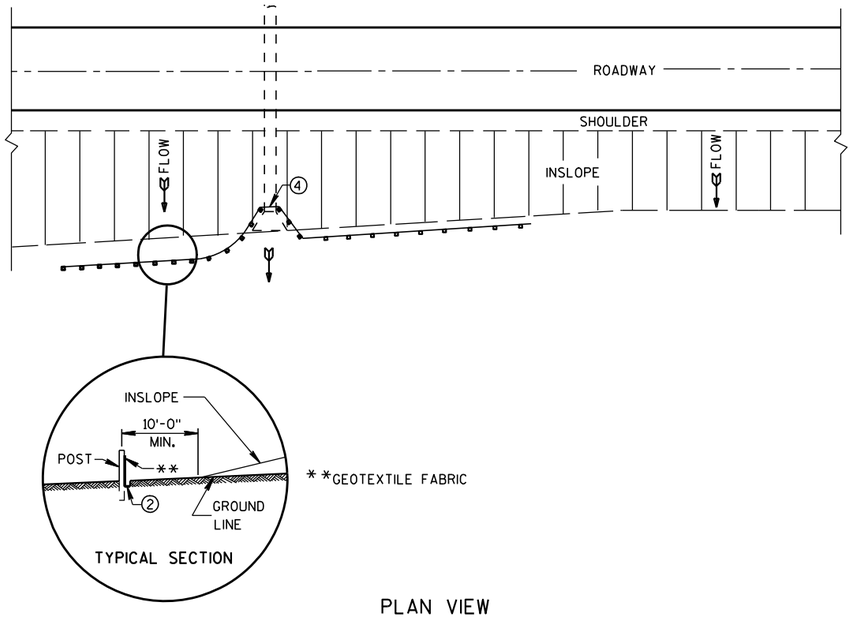
FHWA

6

S.D.D. 8 E 4-2

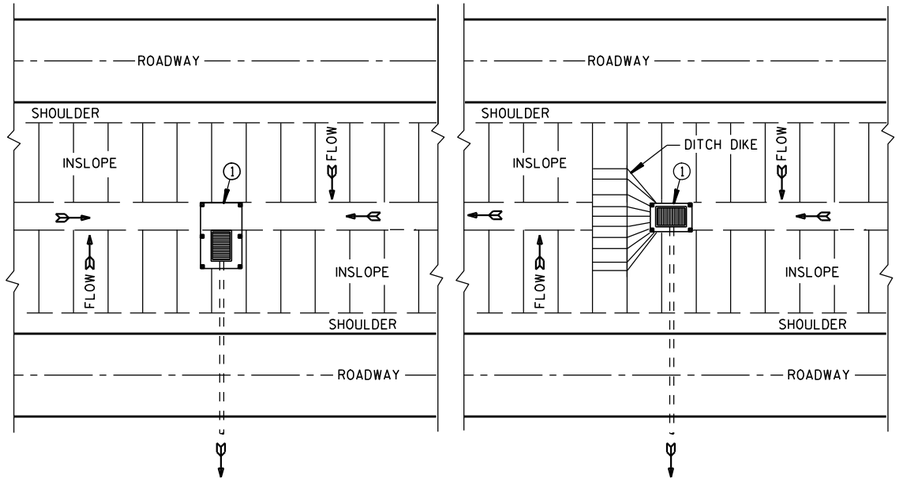
6

S.D.D. 8 E 4-2



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



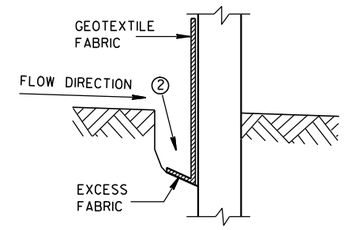
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

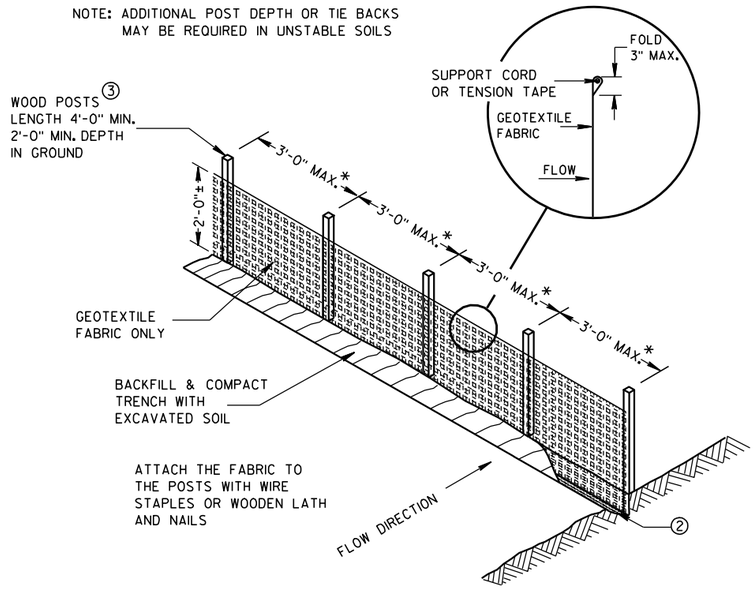
GENERAL NOTES

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.

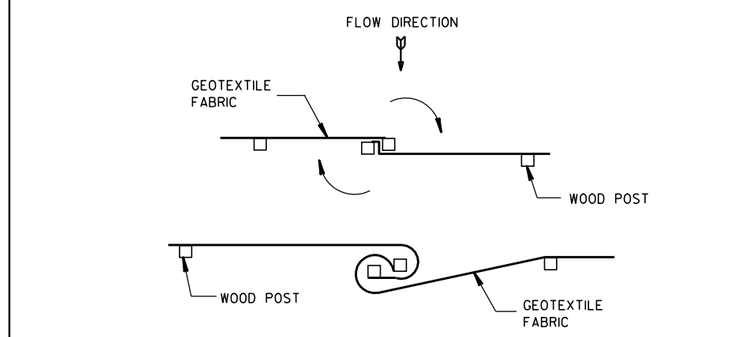


TRENCH DETAIL

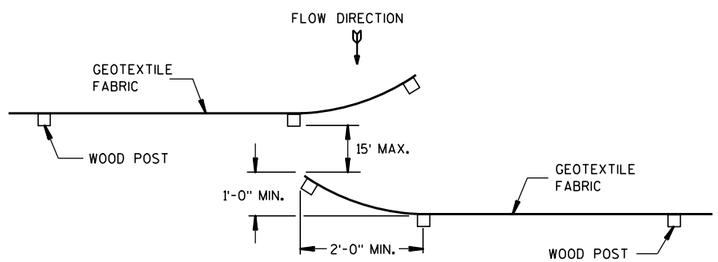


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

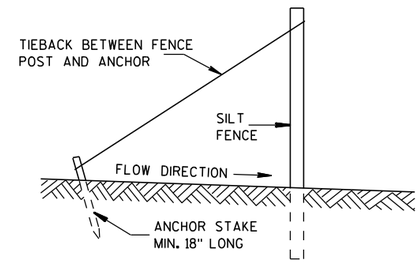


TWIST METHOD



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

METAL APRON ENDWALLS

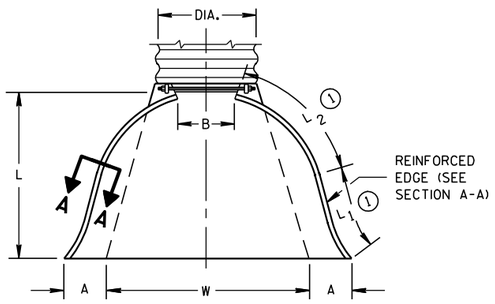
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

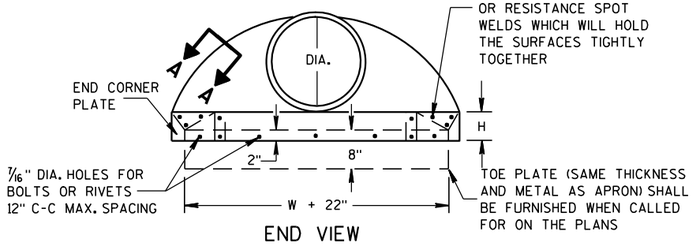
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

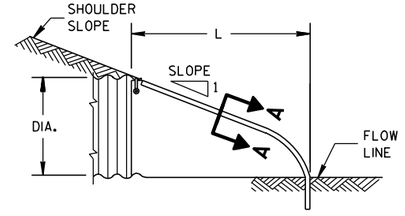
*MINIMUM
**MAXIMUM



PLAN VIEW

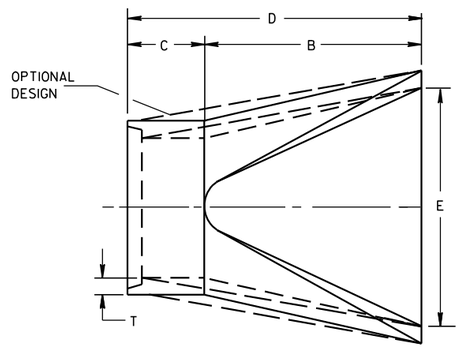


END VIEW

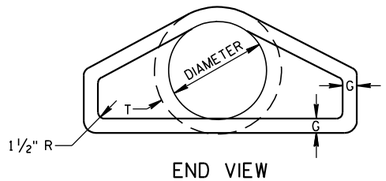


SIDE ELEVATION

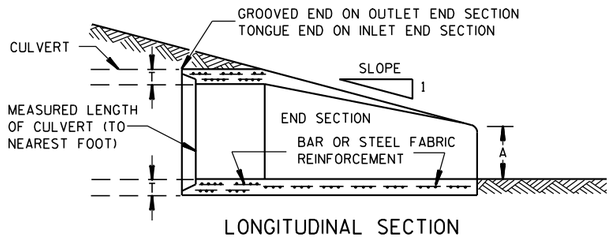
METAL ENDWALLS



PLAN

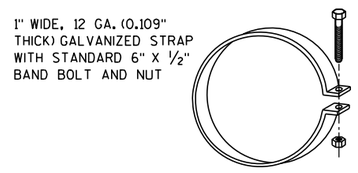


END VIEW



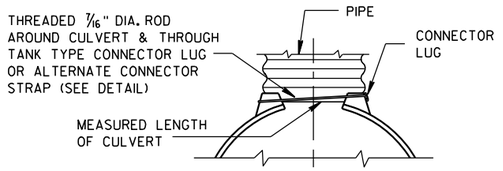
LONGITUDINAL SECTION

CONCRETE ENDWALLS

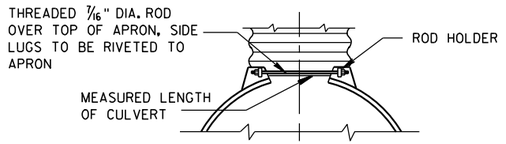


ALTERNATE FOR TYPE 1 CONNECTION

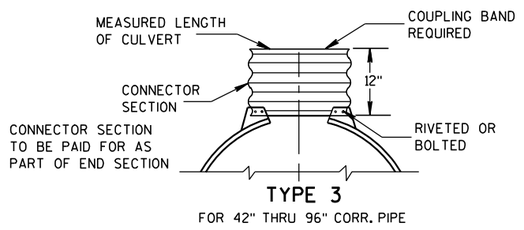
END SECTION CONNECTOR STRAP



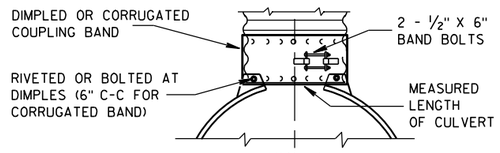
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

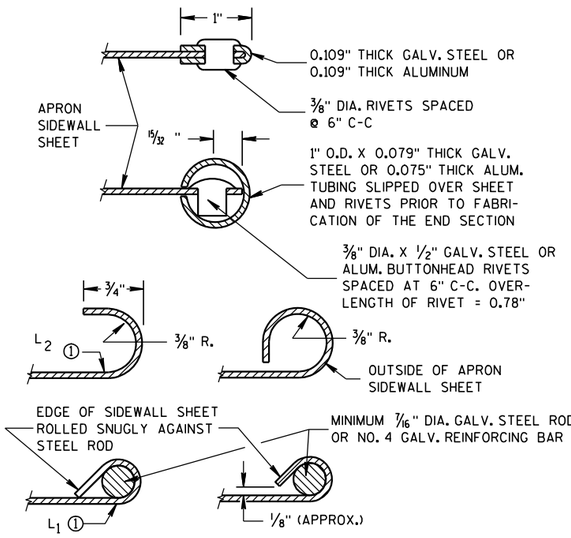
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

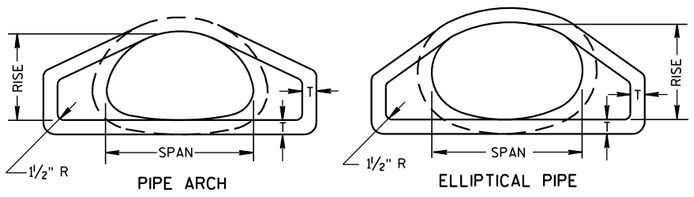
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

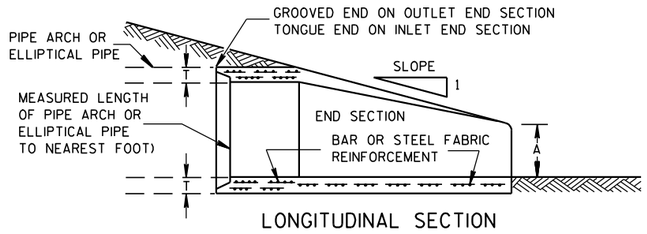
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

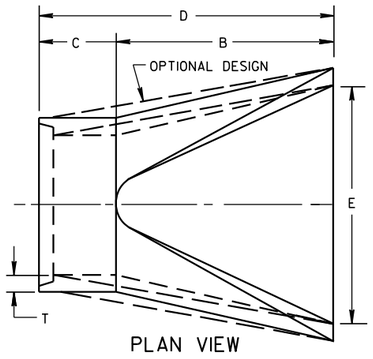
6
S.D.D. 8 F 1-11



END VIEW

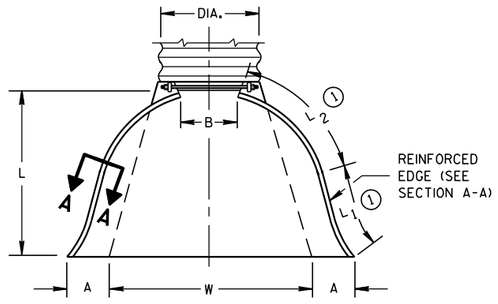


LONGITUDINAL SECTION

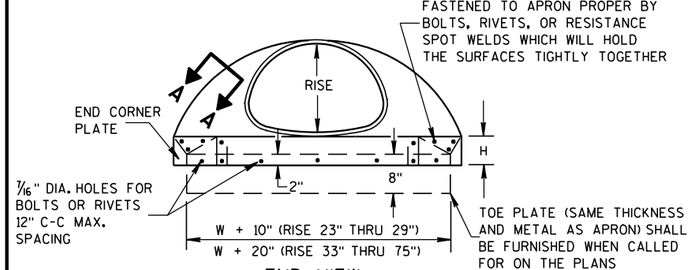


PLAN VIEW

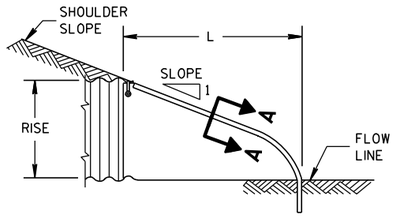
CONCRETE ENDWALLS



PLAN VIEW

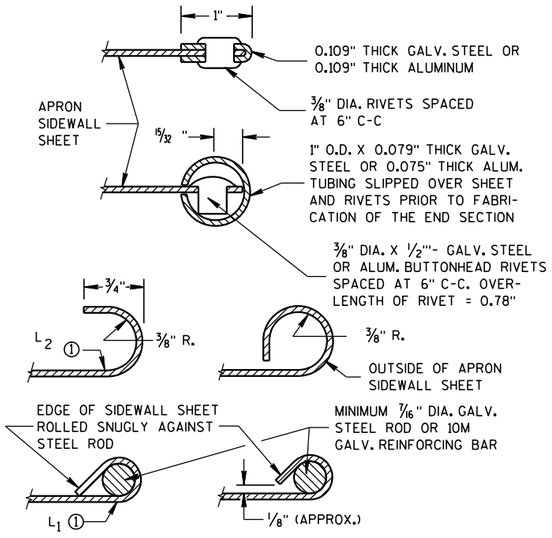


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

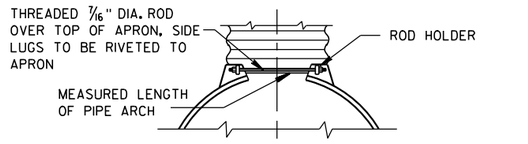
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

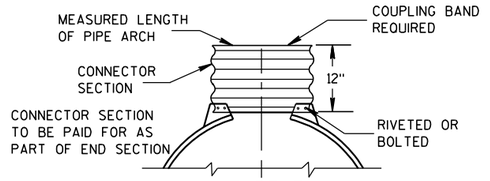
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



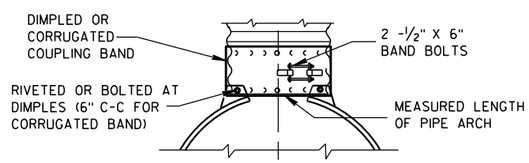
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

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.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

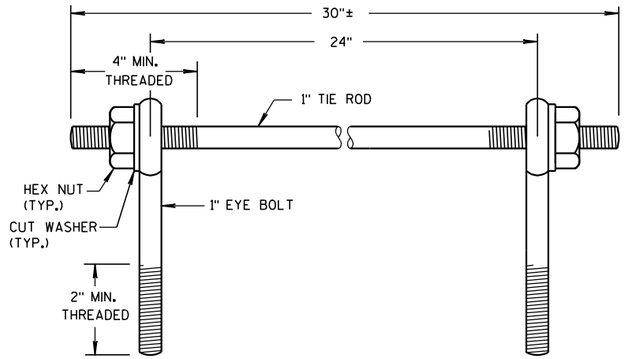
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

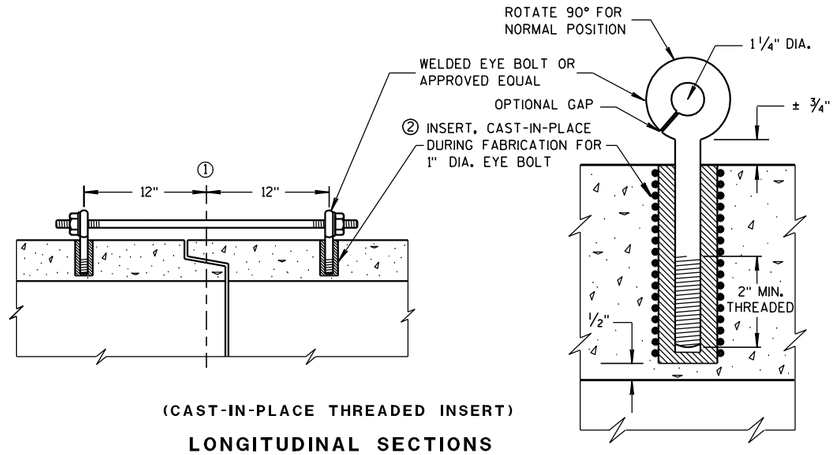
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 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 APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

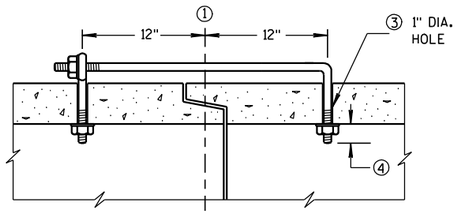
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

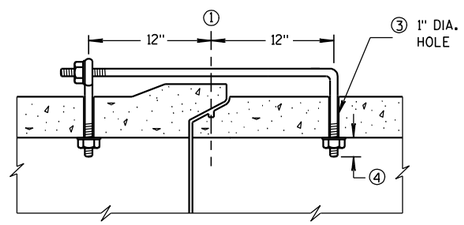
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

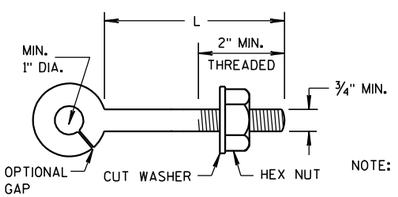


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

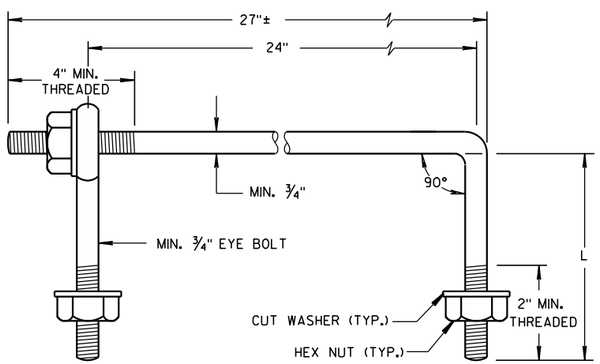
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

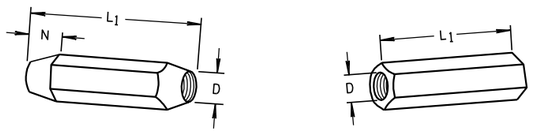
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

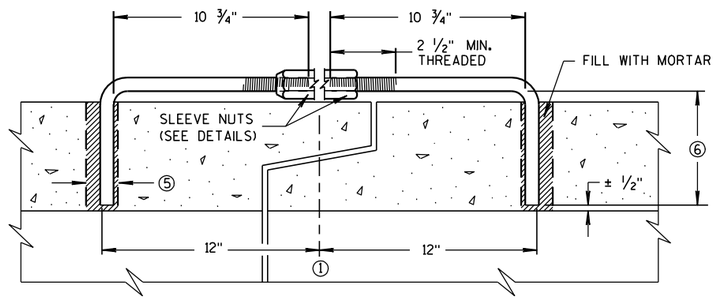
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

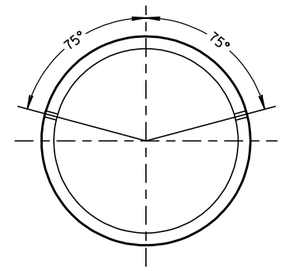
SLEEVE NUTS



LONGITUDINAL SECTION

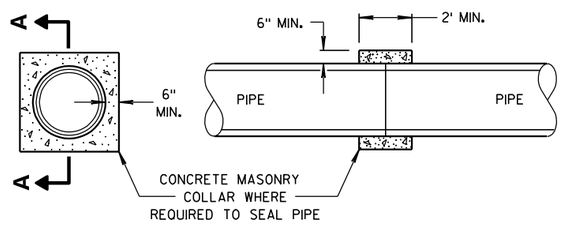
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
57 — 'MENT

FHWA

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S.D.D. 8 F 4-7

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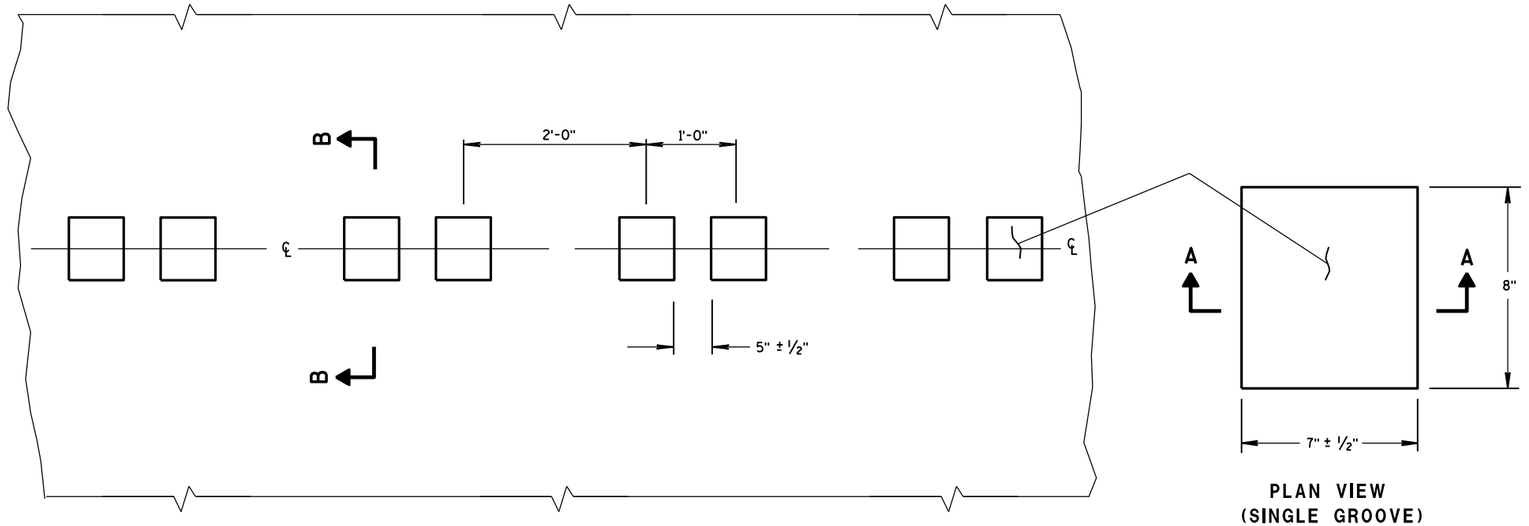
S.D.D. 8 F 4-7



PLAN VIEW
CENTER LINE WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

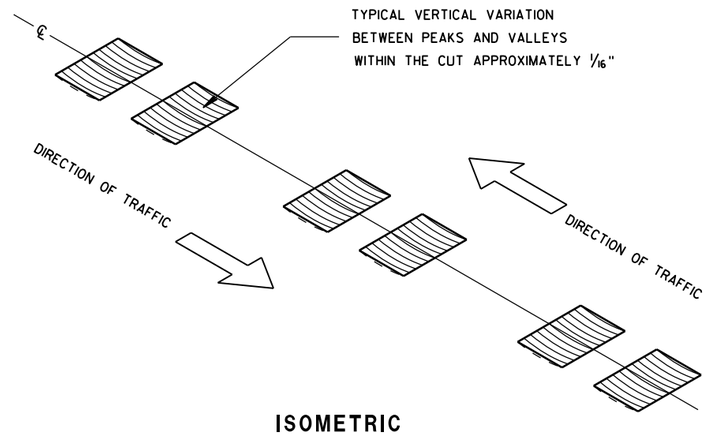
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



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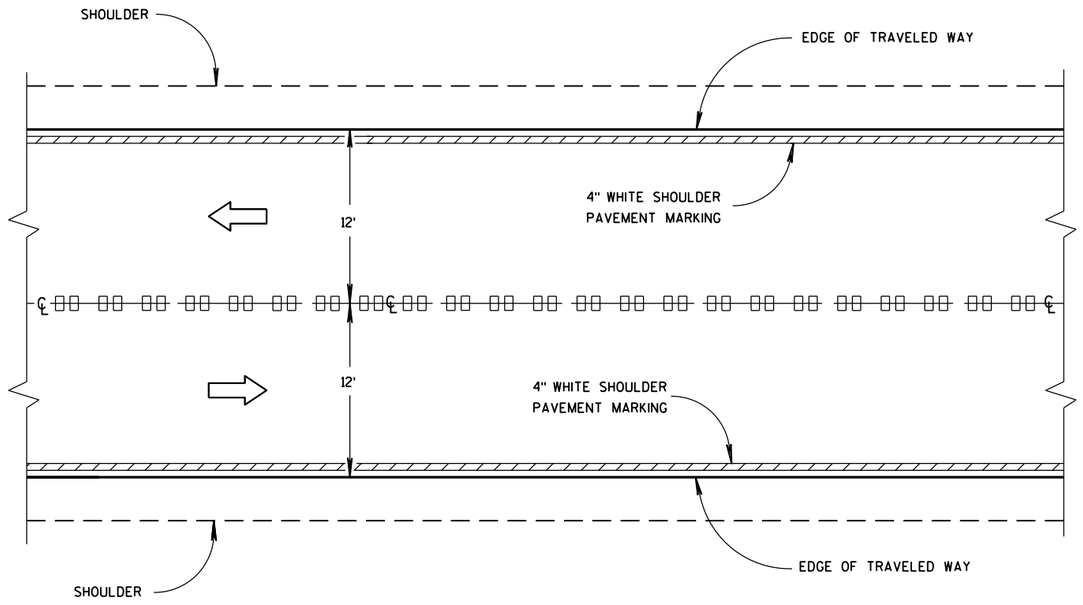
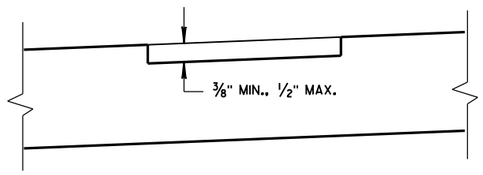
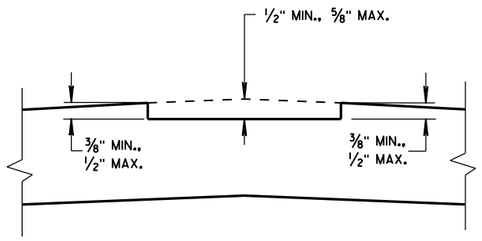


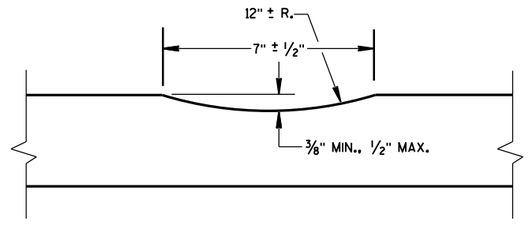
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

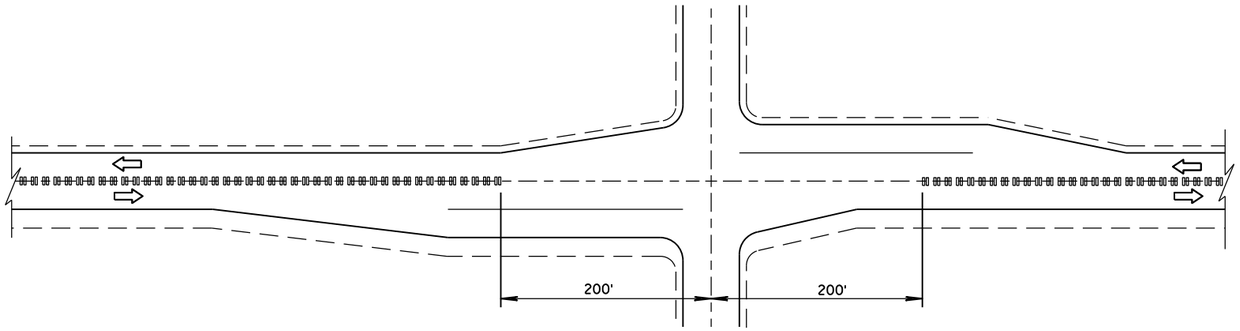
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

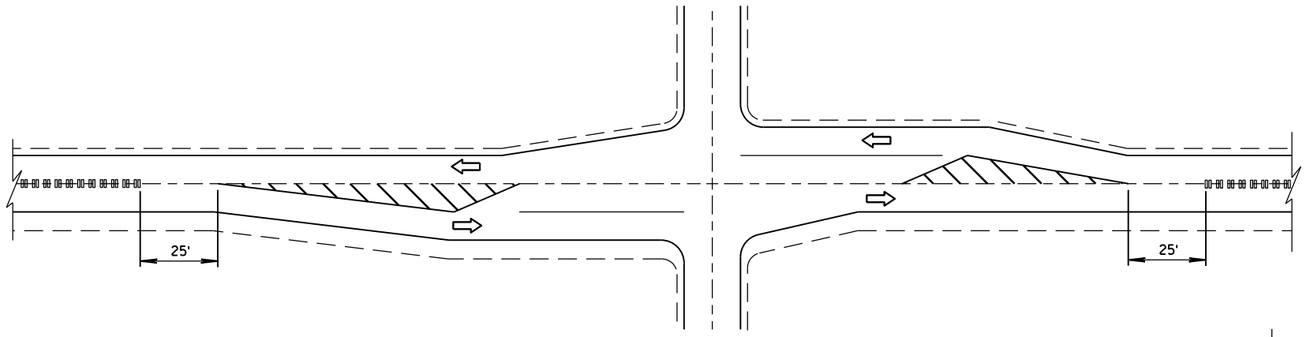
S.D.D. 13 A 11-2a

6

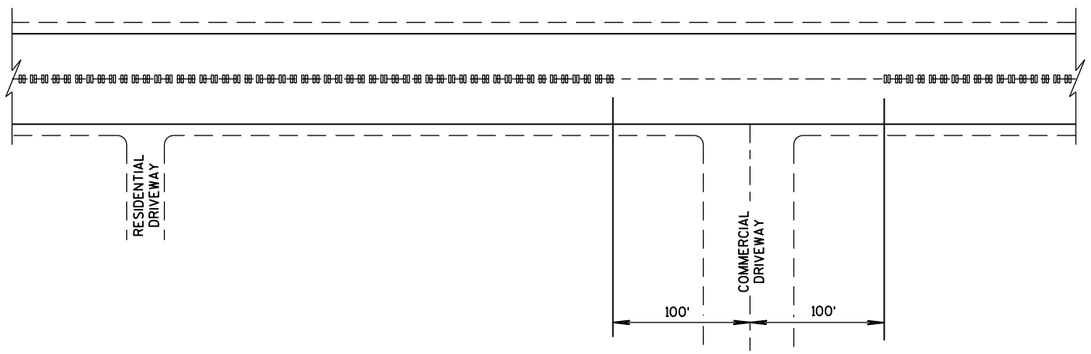
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

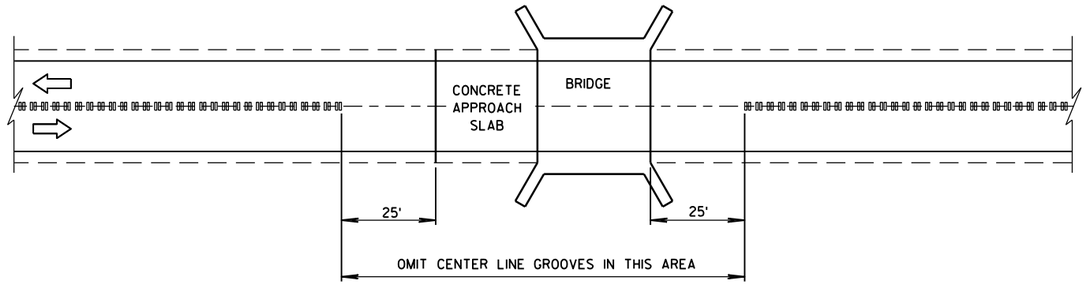


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

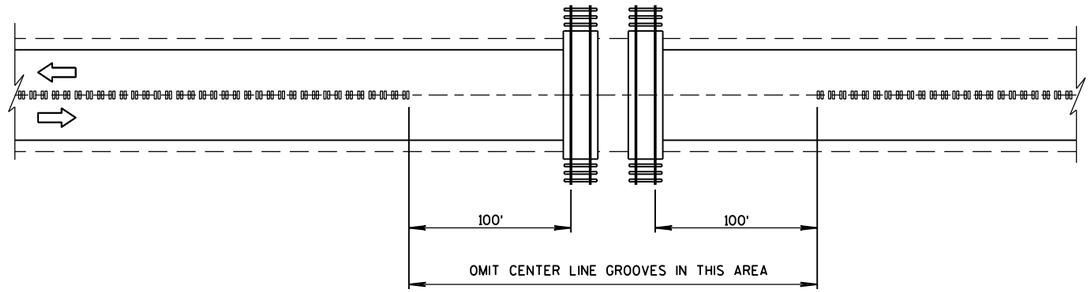


CENTER LINE GROOVES AT DRIVEWAYS (1)

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

FHWA

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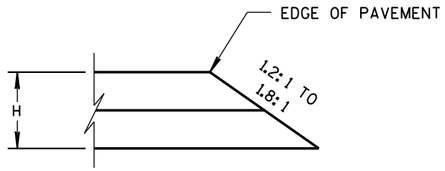
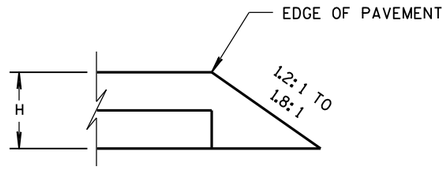
S.D.D. 13 A 11-2b



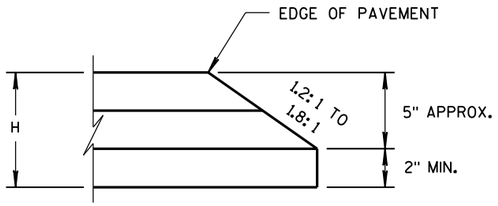
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



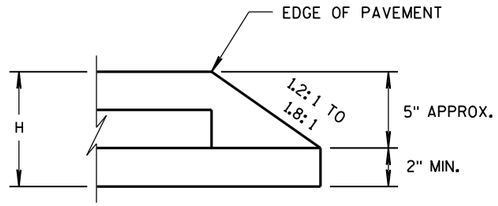
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

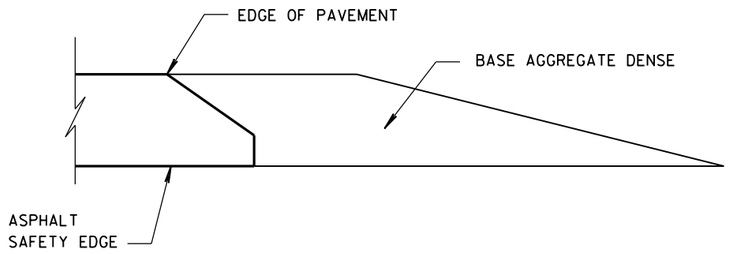
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

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S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

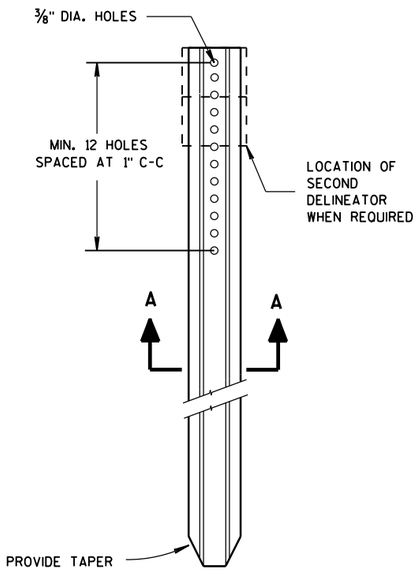
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

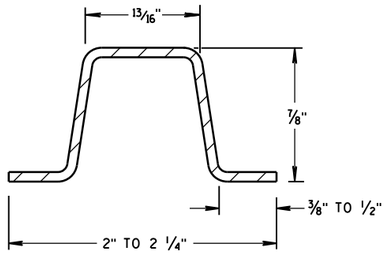
11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

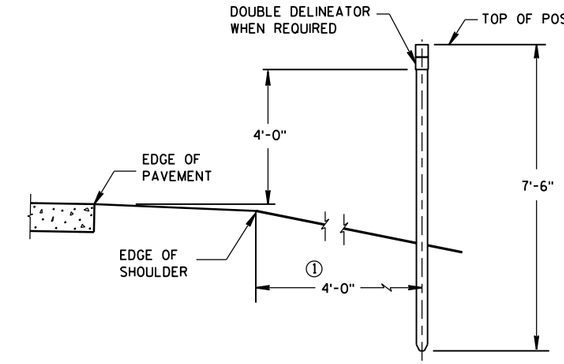


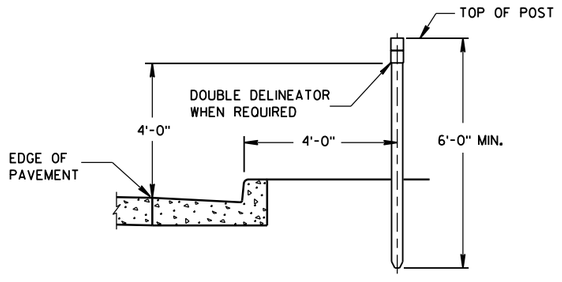
DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.



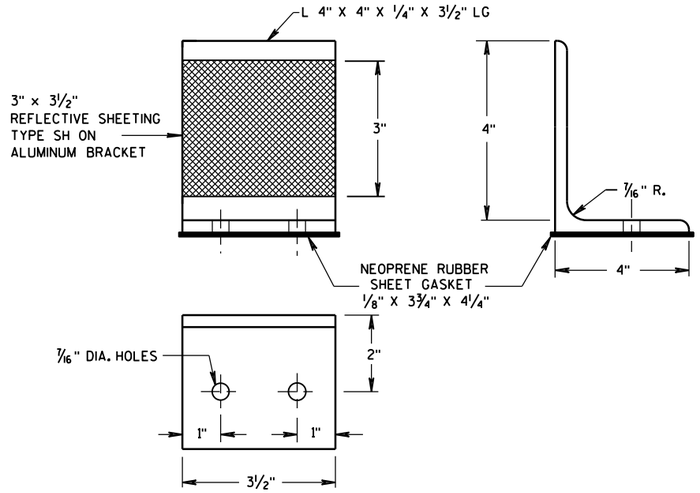


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

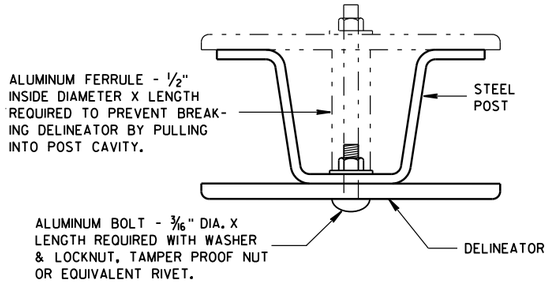
GENERAL NOTES

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

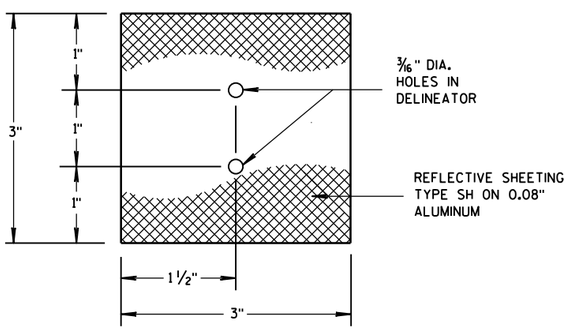
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



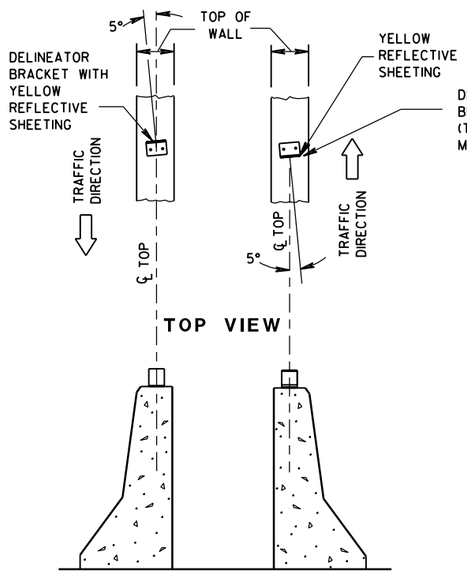
DELINEATOR BRACKET



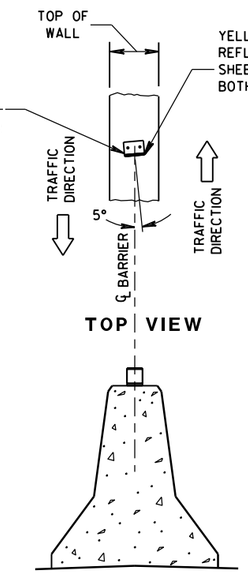
MOUNTING DETAIL FOR DELINEATOR



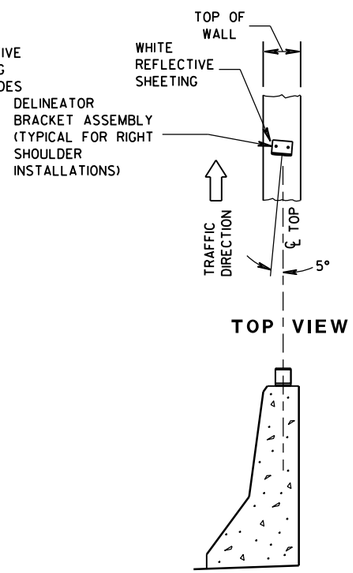
3"x 3" DELINEATOR



DOUBLE BARRIERS IN MEDIAN

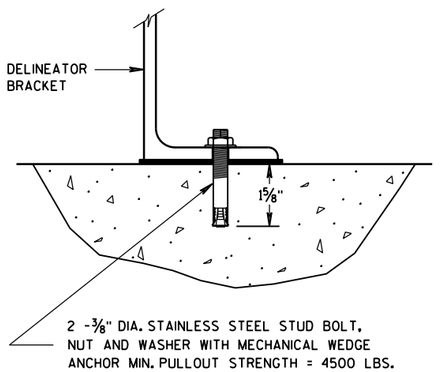


MEDIAN BARRIER



BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC E
FHWA

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S.D.D. 15 A 2-8

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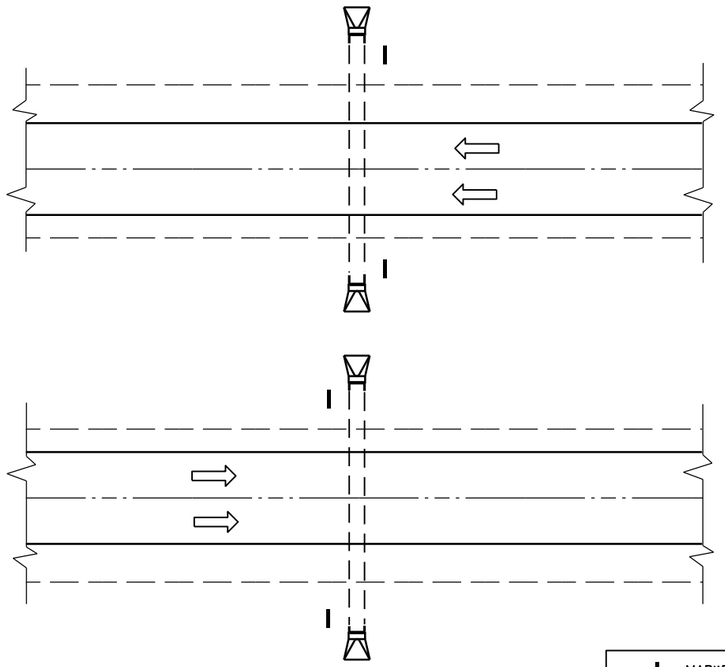
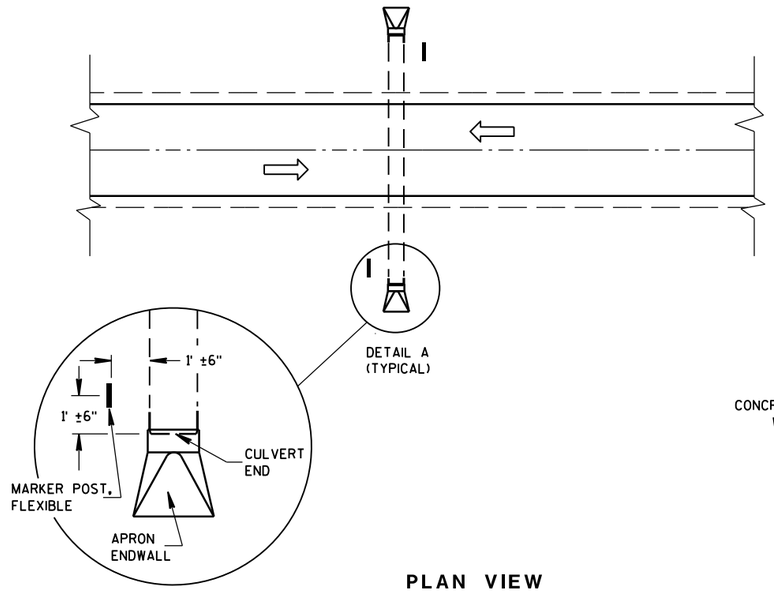
S.D.D. 15 A 2-8



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

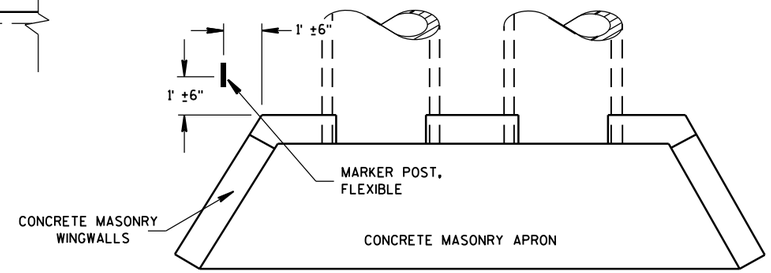
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

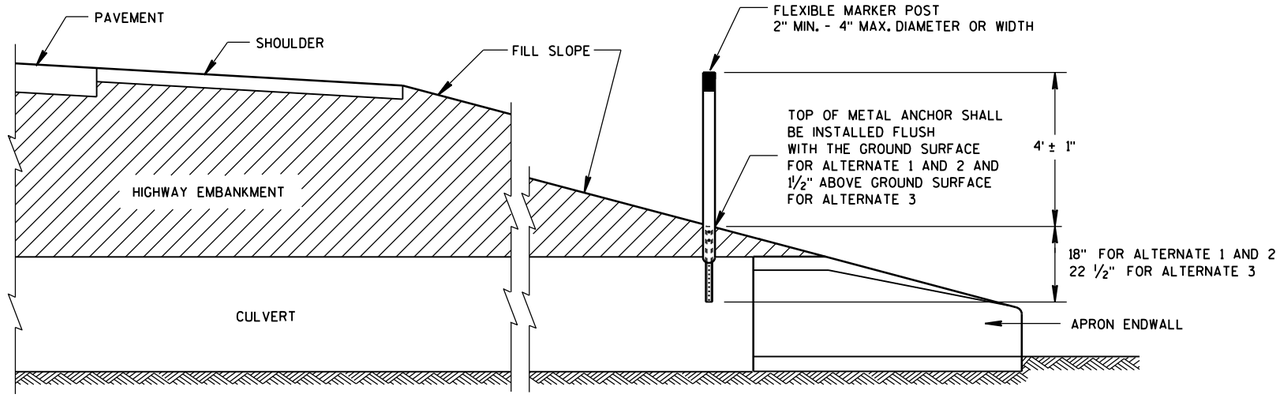
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

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

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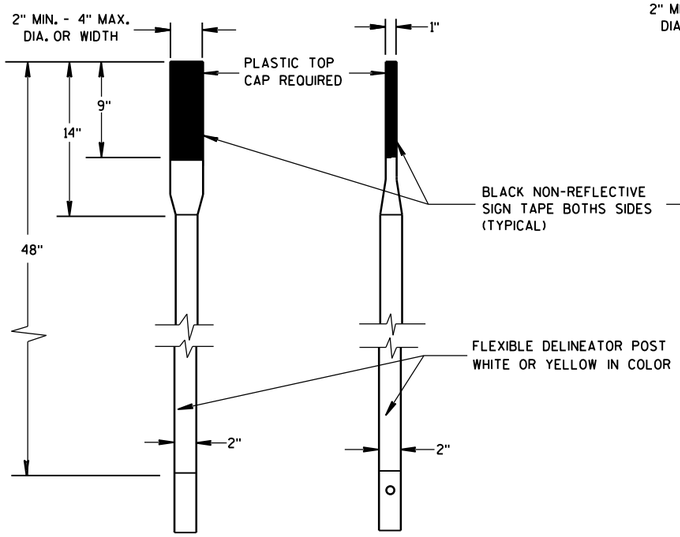
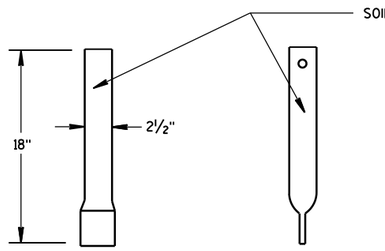
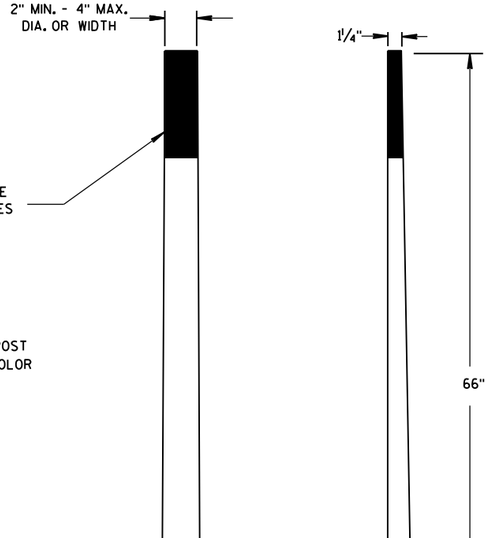
S.D.D. 15 A 3-2a





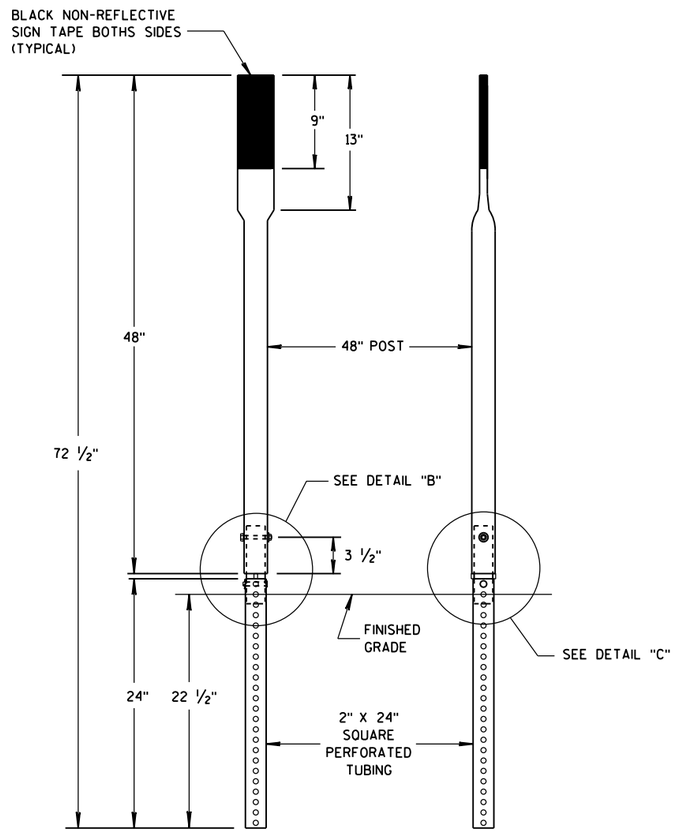
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

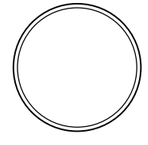
ALTERNATE 2



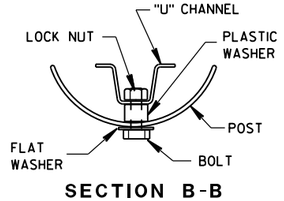
FRONT VIEW SIDE VIEW

ALTERNATE 3

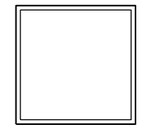
FLEXIBLE MARKER POSTS



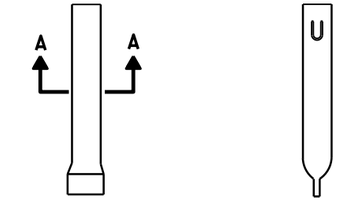
SECTION A-A



SECTION B-B

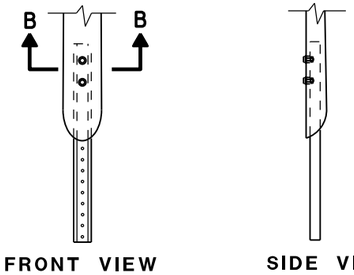


SECTION C-C



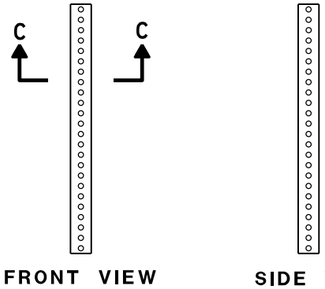
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

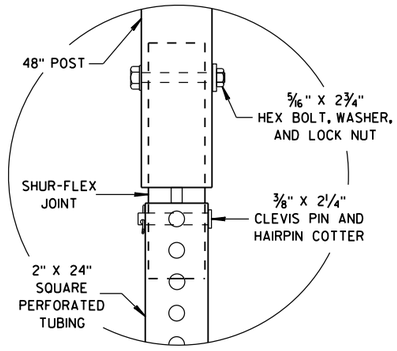
ALTERNATE 2



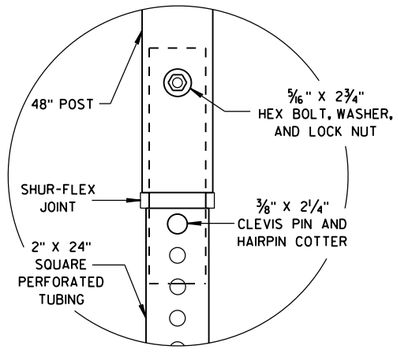
FRONT VIEW SIDE VIEW

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
IGN
FHWA

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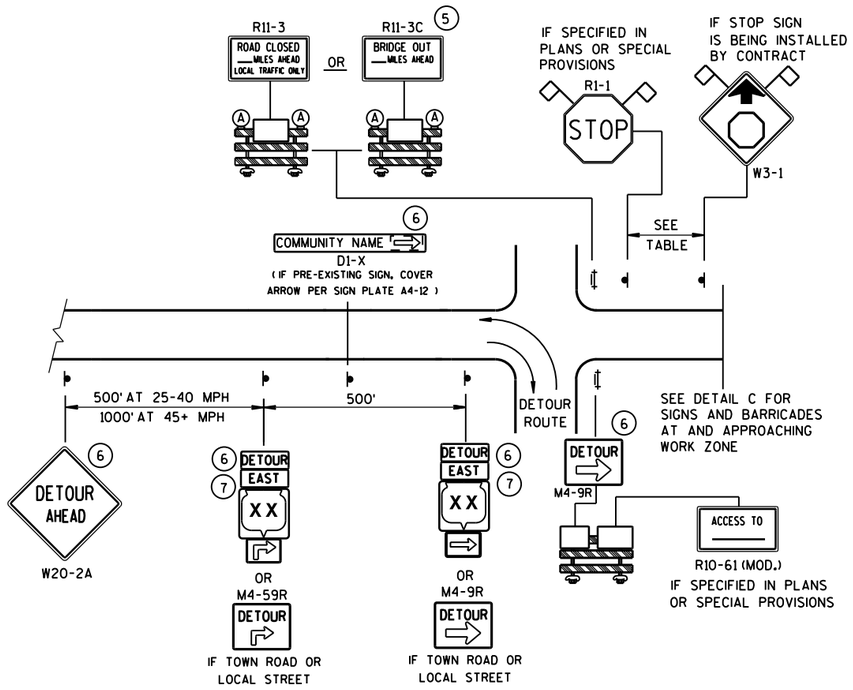
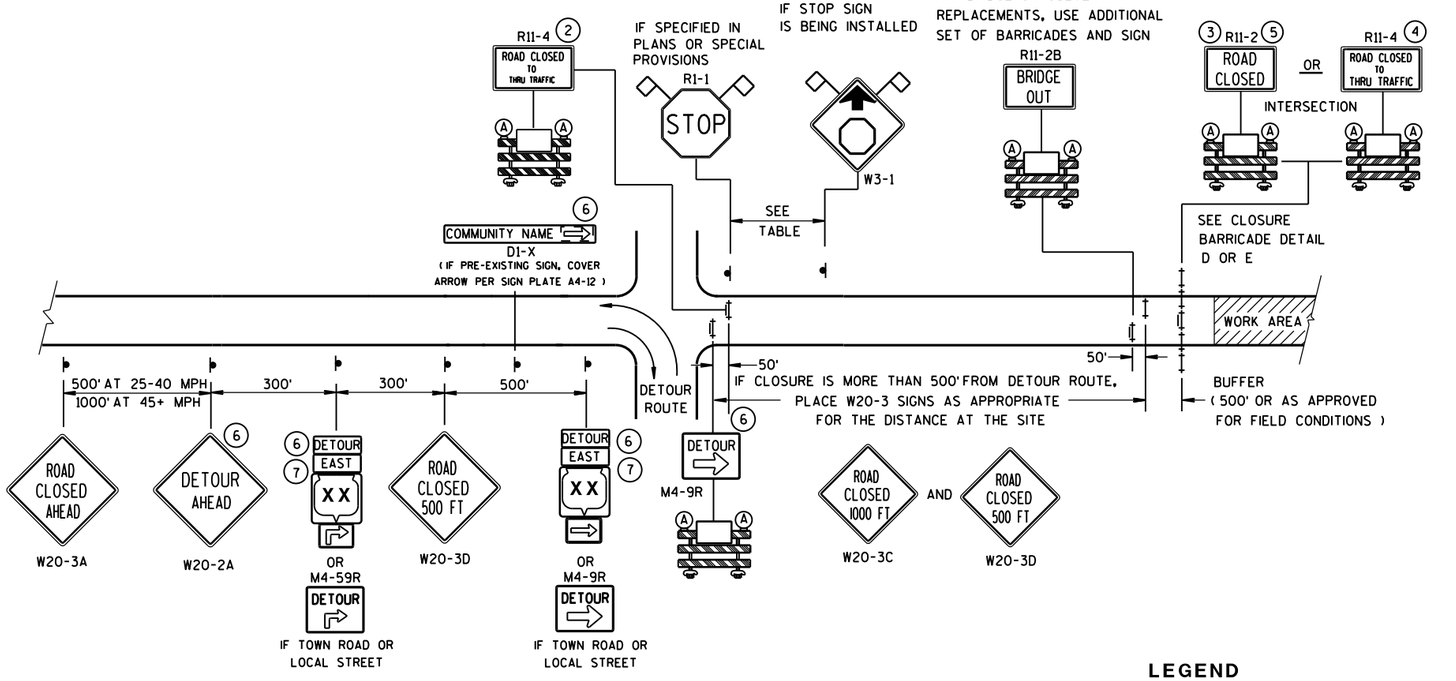
S.D.D. 15 A 3-2b



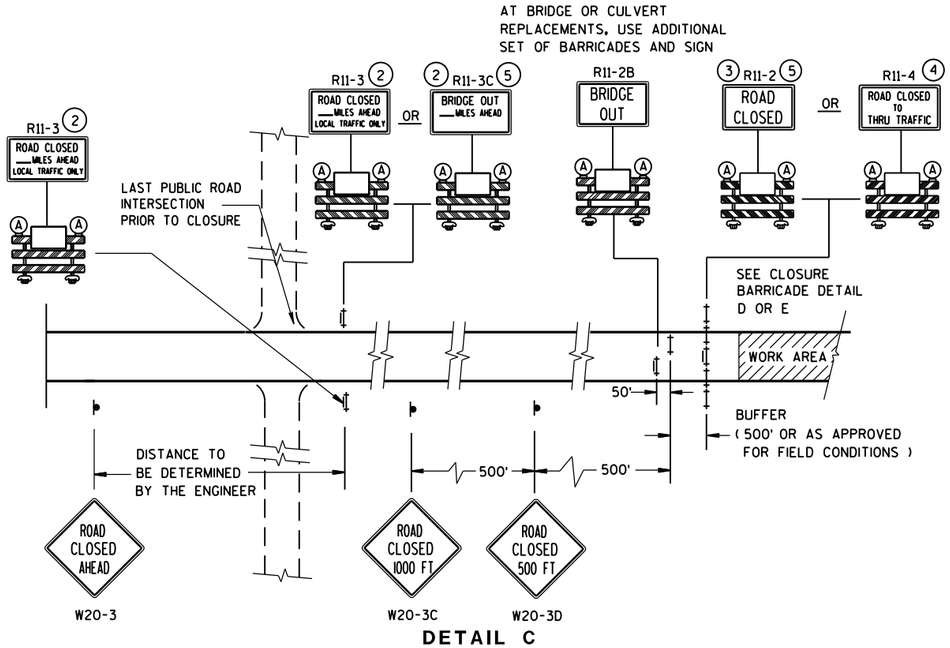
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN 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)



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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

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

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

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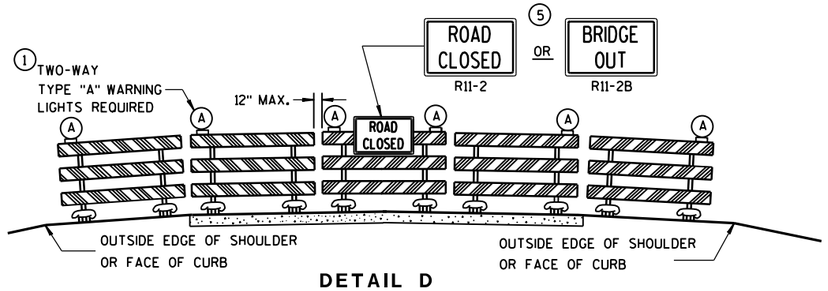
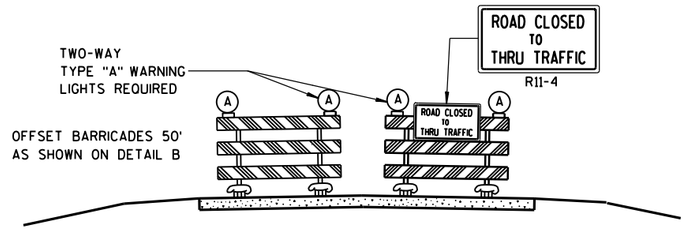
S.D.D. 15 C 2-6a



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 BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE 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, 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". (30" X 15" 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.)
- 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 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 LANE 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 MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA — FIC

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S.D.D. 15 C 2-6b

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

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.

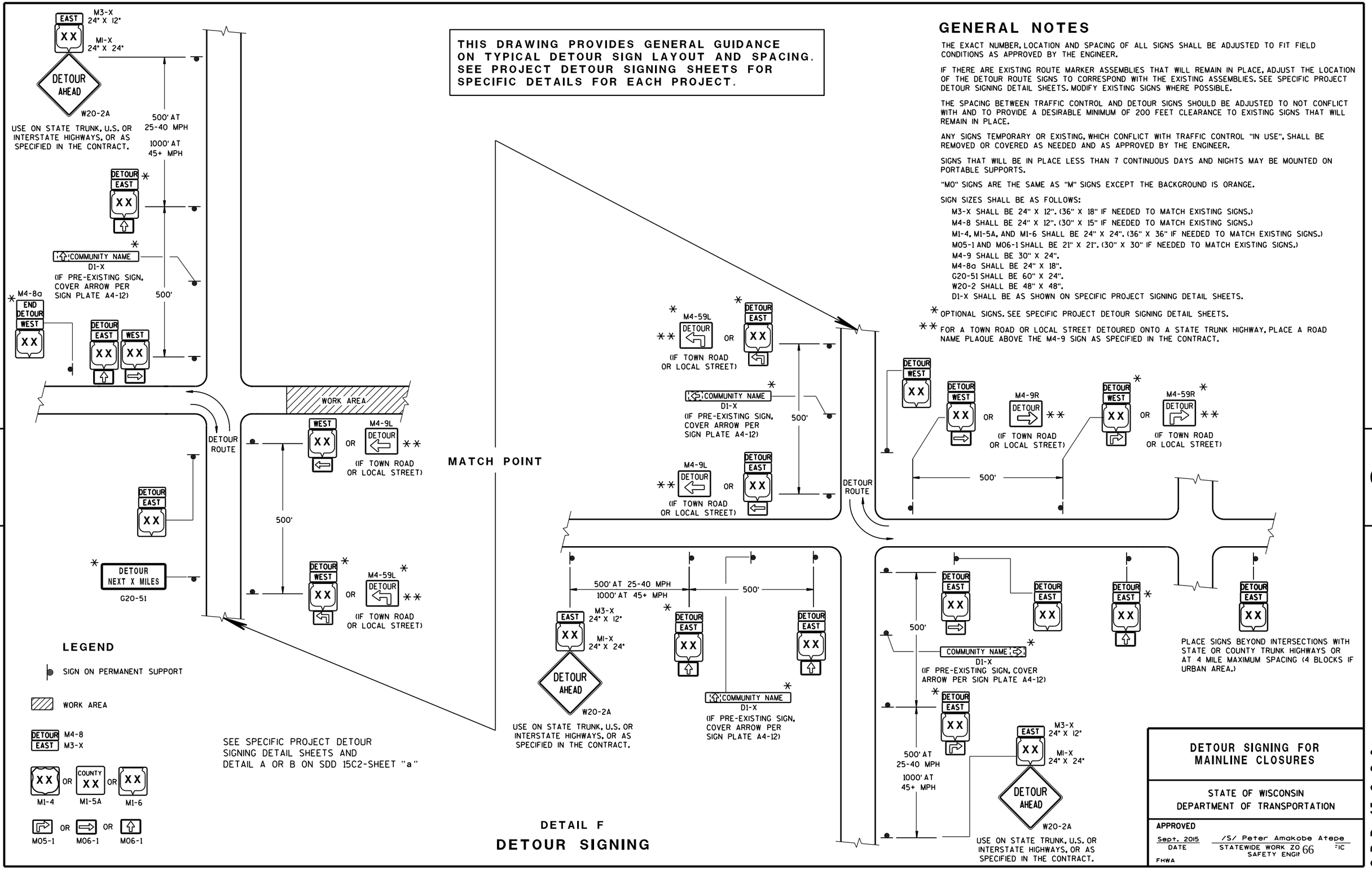
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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". (30" X 15" 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.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 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.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... FIC

FHWA

S.D.D. 15 C 2-6c

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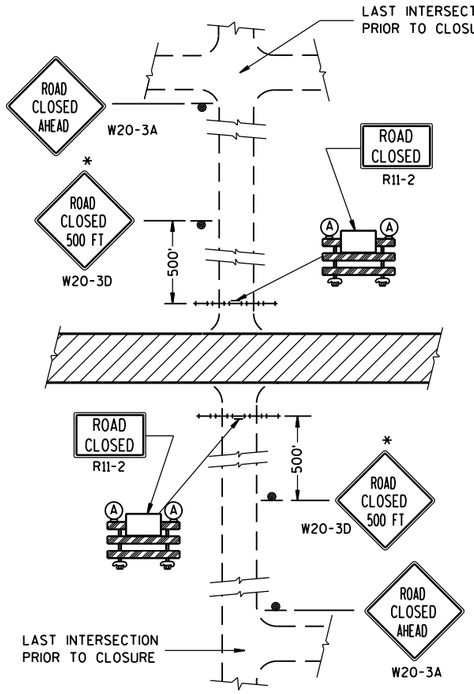
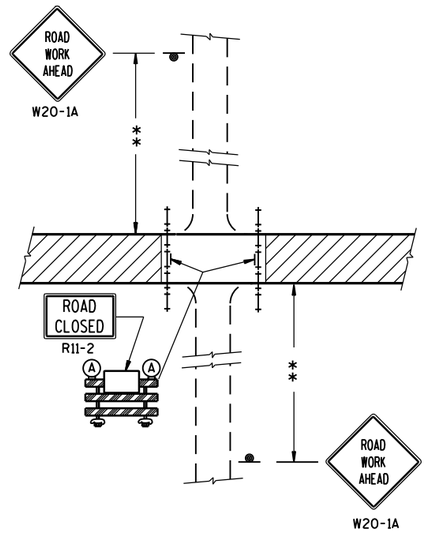


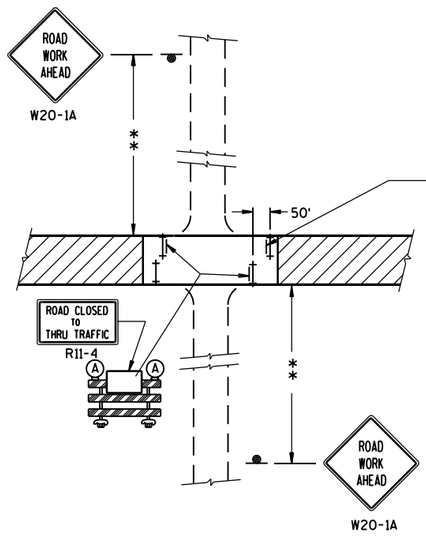
DETAIL 1

(NO ACCESS TO PROJECT)



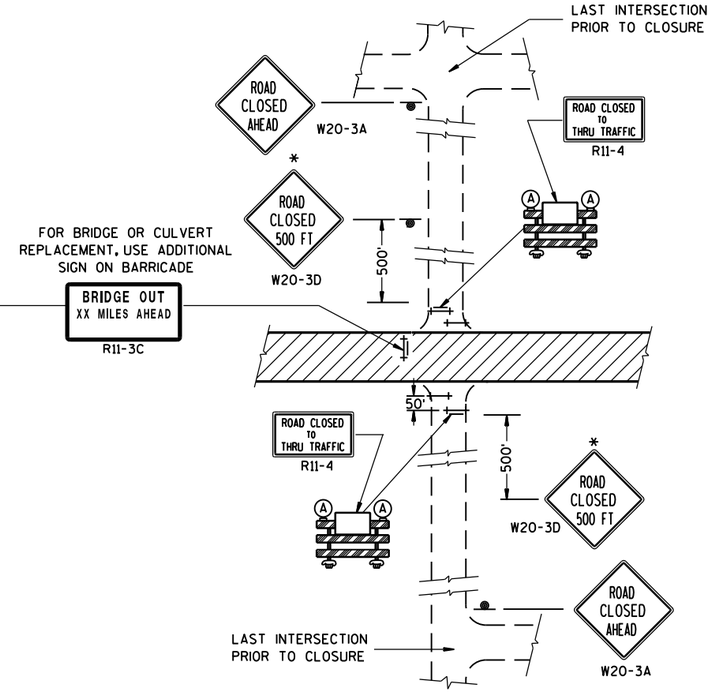
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

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.

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.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

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S.D.D. 15 C 3-3

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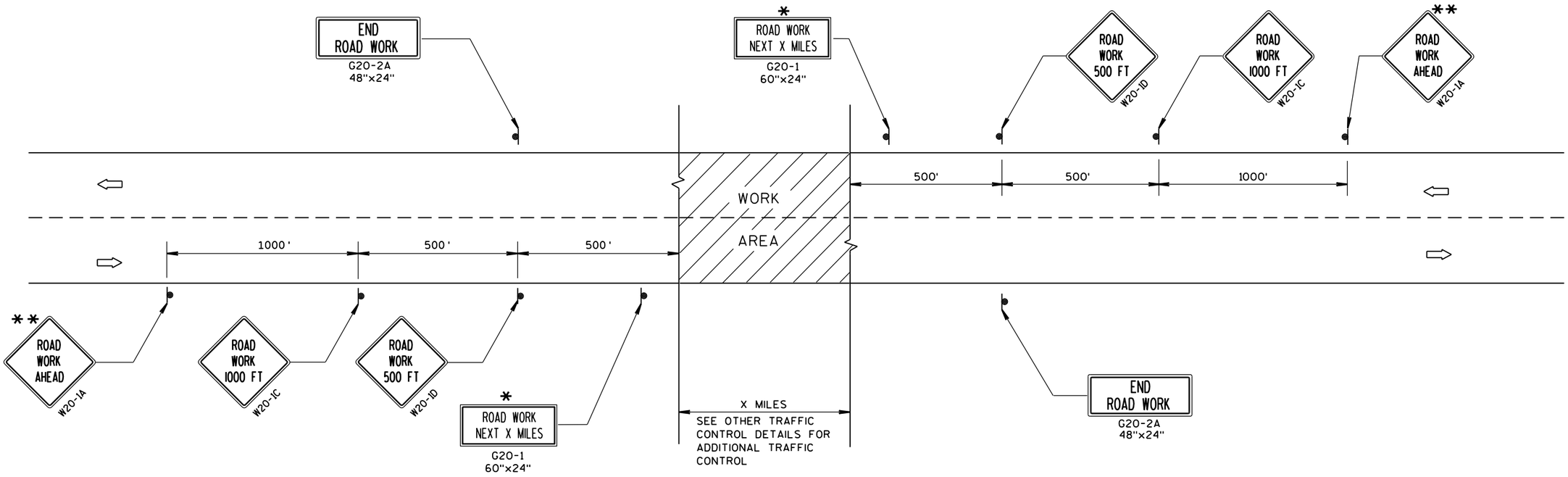
S.D.D. 15 C 3-3



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.

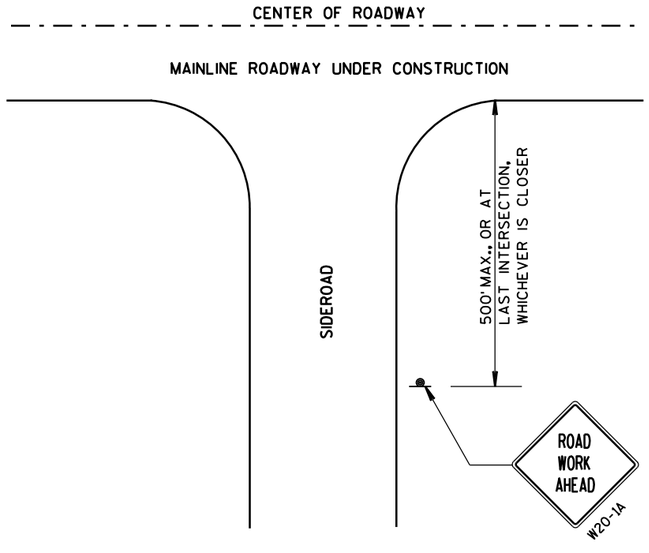
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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 W20-1A "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

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

FHWA

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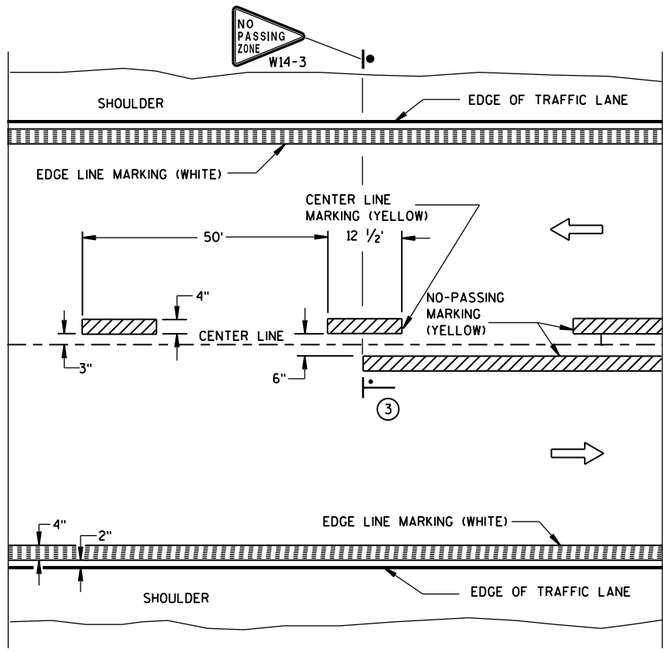
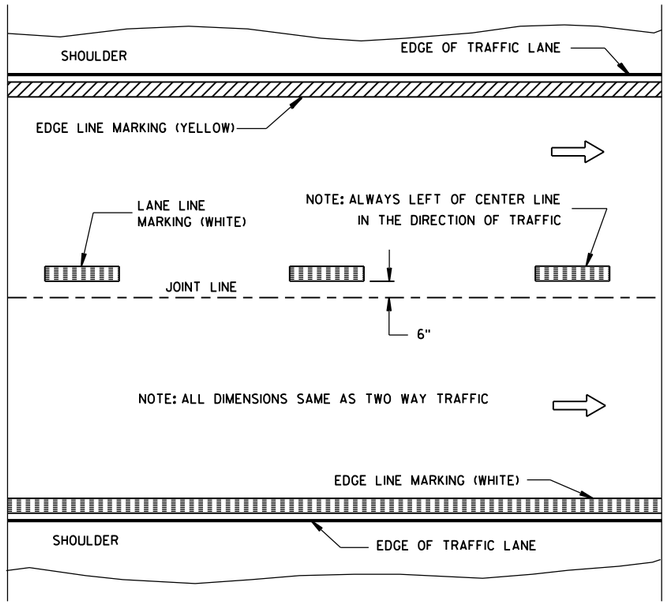
S.D.D. 15 C 4-3

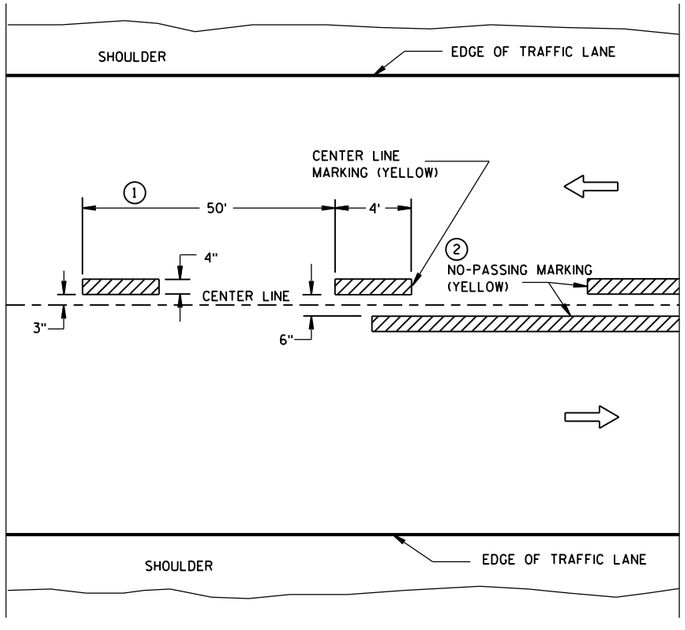


TWO WAY TRAFFIC

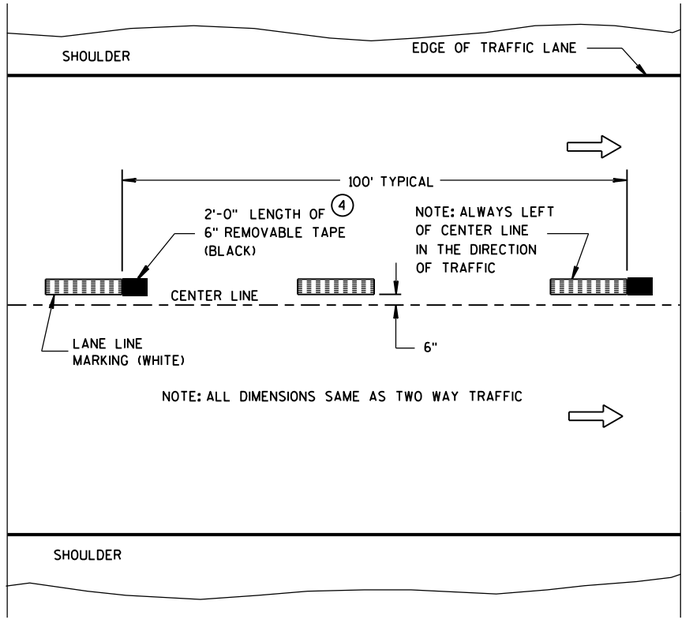


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

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

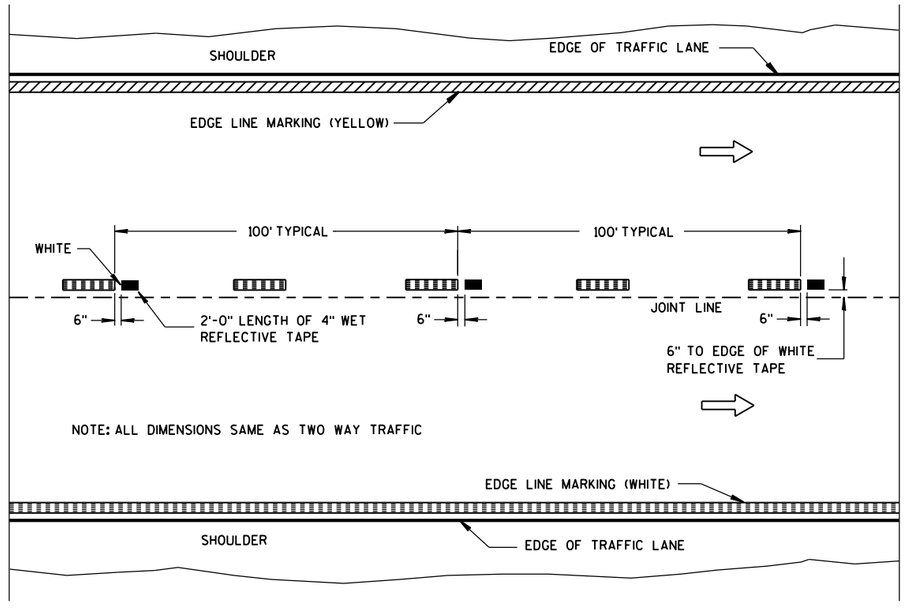
GENERAL NOTES

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

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 8-16a

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S.D.D. 15 C 8-16a

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

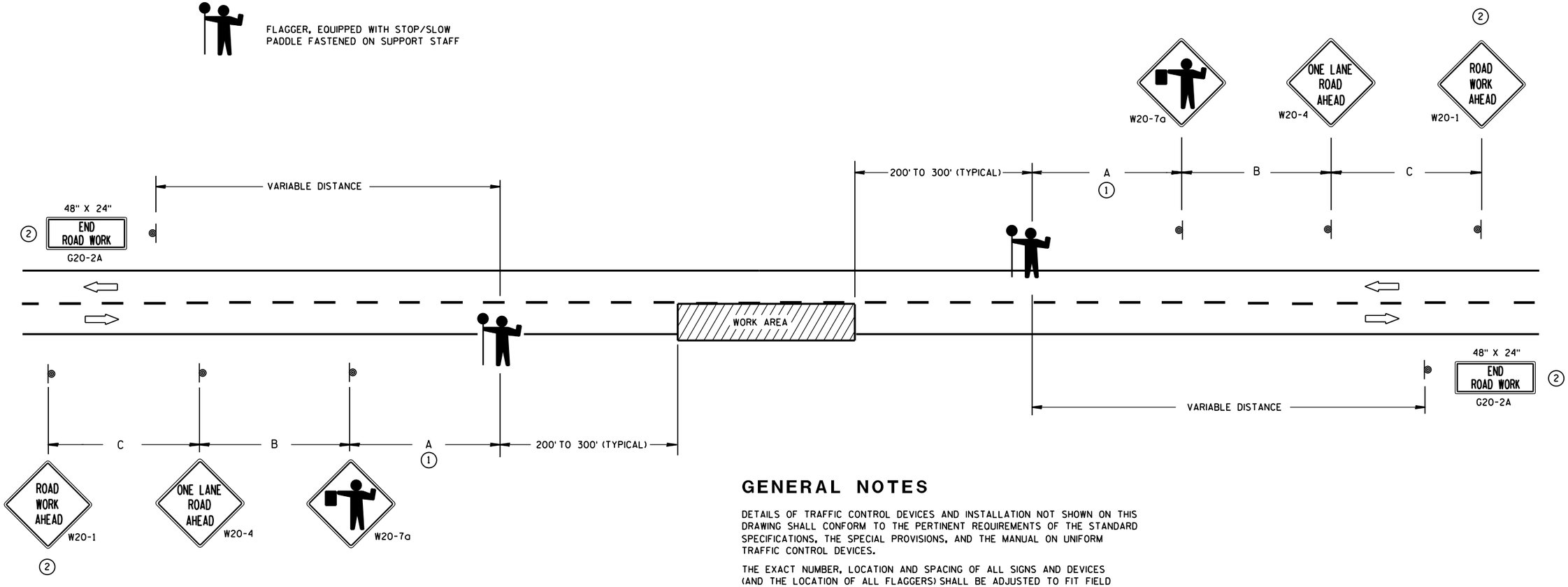
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

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

W3-4

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.



(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.

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.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 15 C 12-4

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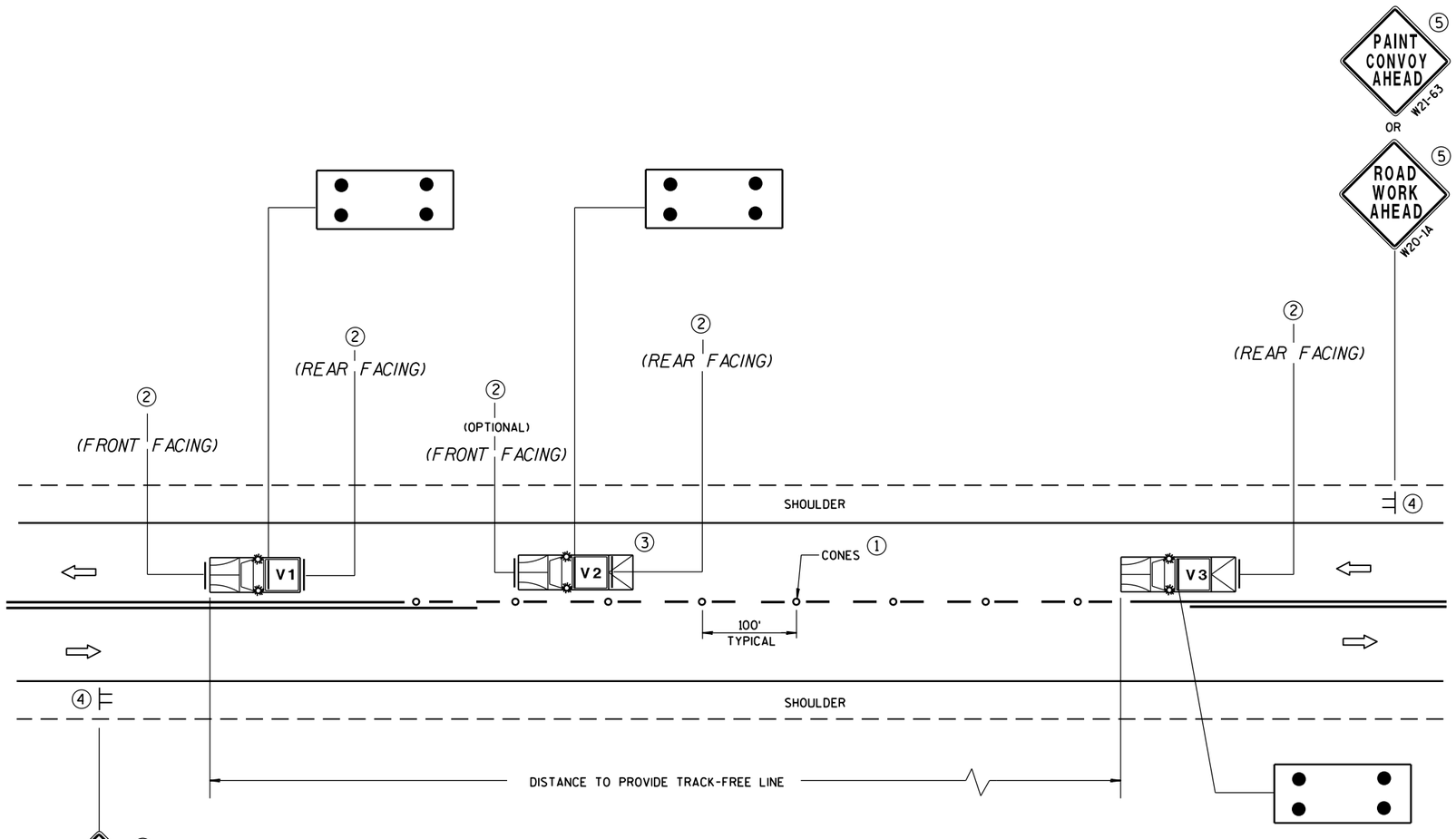
S.D.D. 15 C 12-4



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

- **V1** LEAD VEHICLE
- **V2** SHADOW VEHICLE
- **V3** TRAIL VEHICLE WITH TMA
- **TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZOI SAFETY ENGIN
FHWA	

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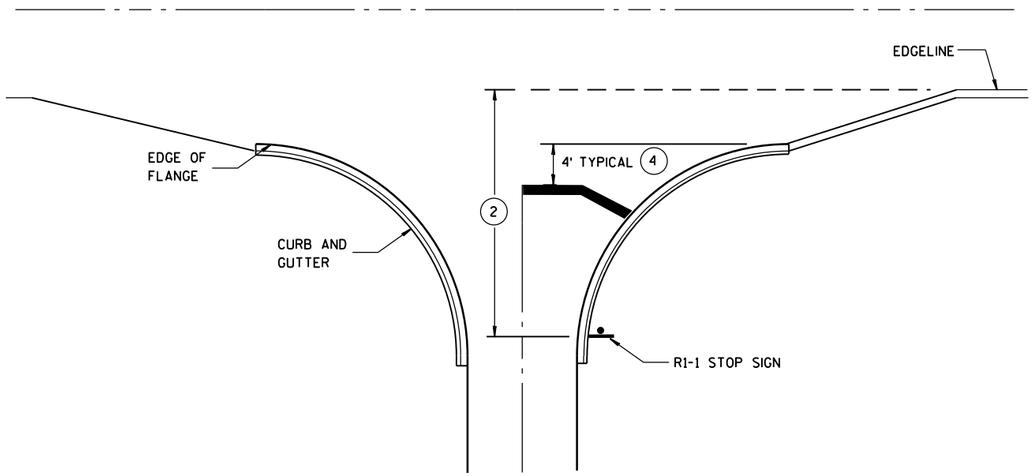
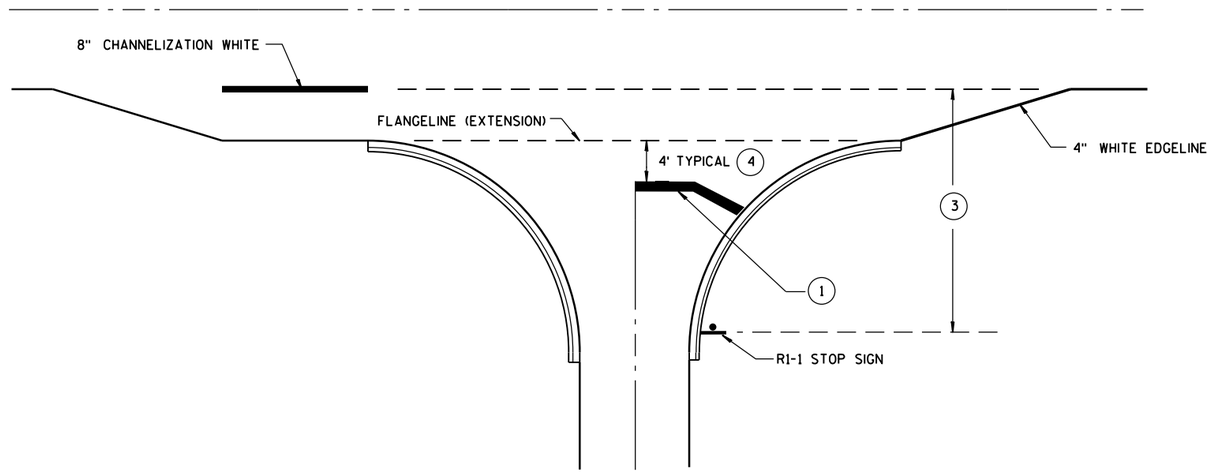
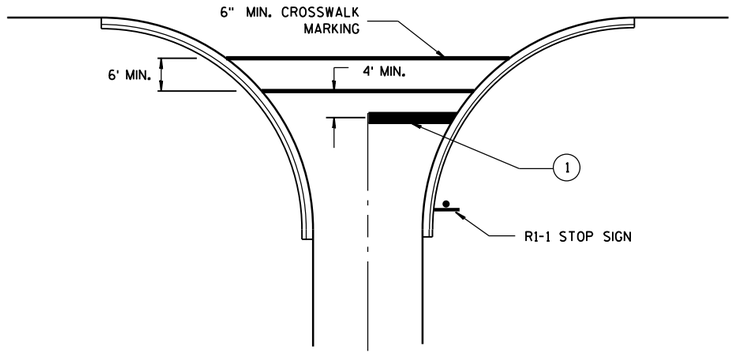


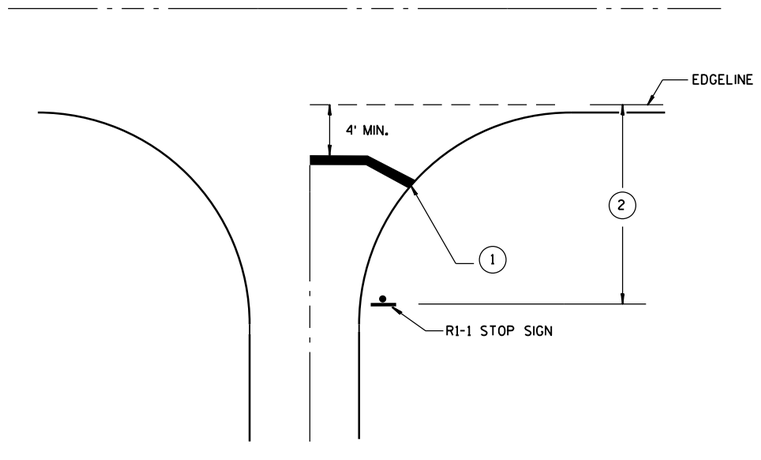
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

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S.D.D. 15 C 33-1

GENERAL NOTES

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. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

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

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

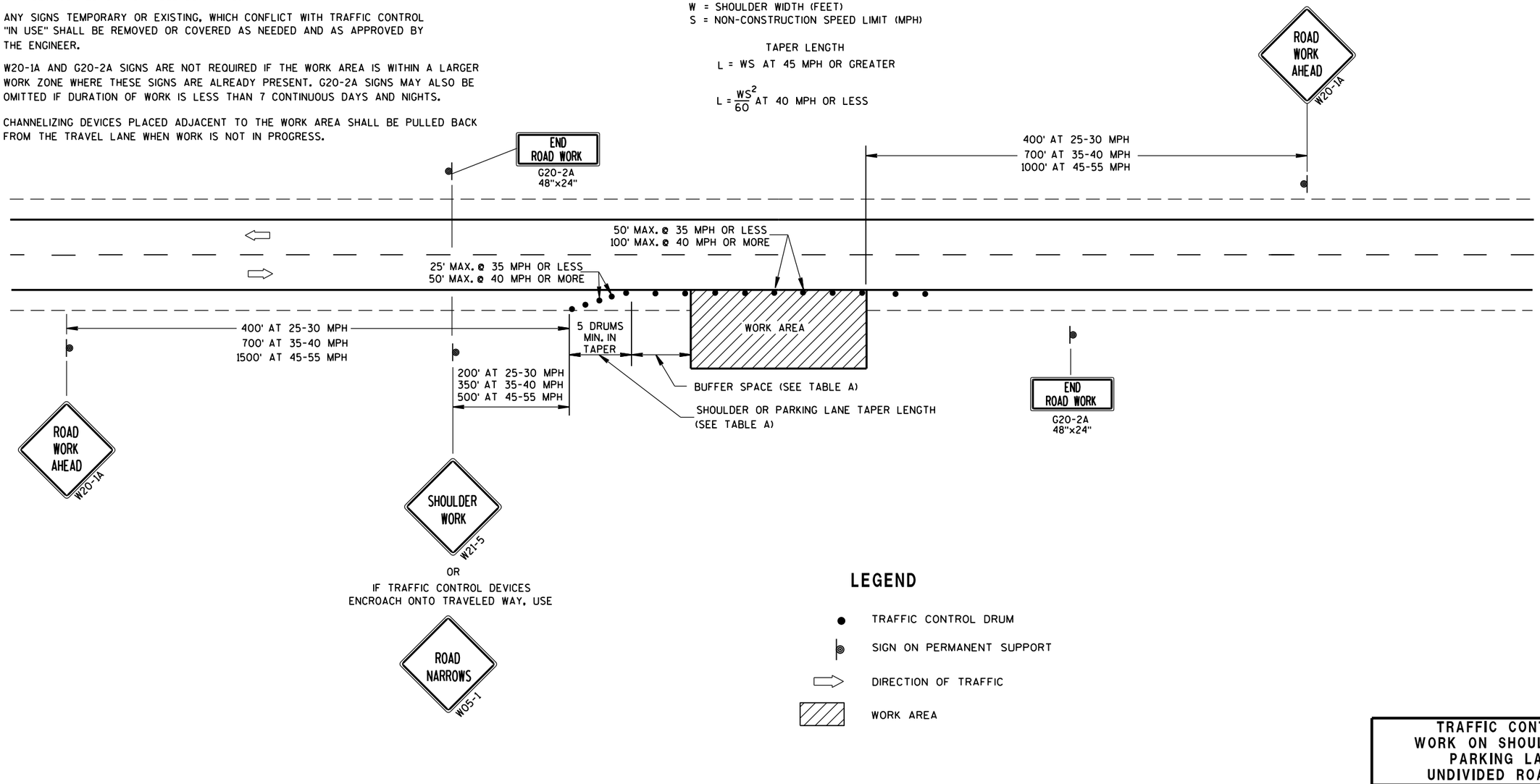
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

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

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI FIC

FHWA

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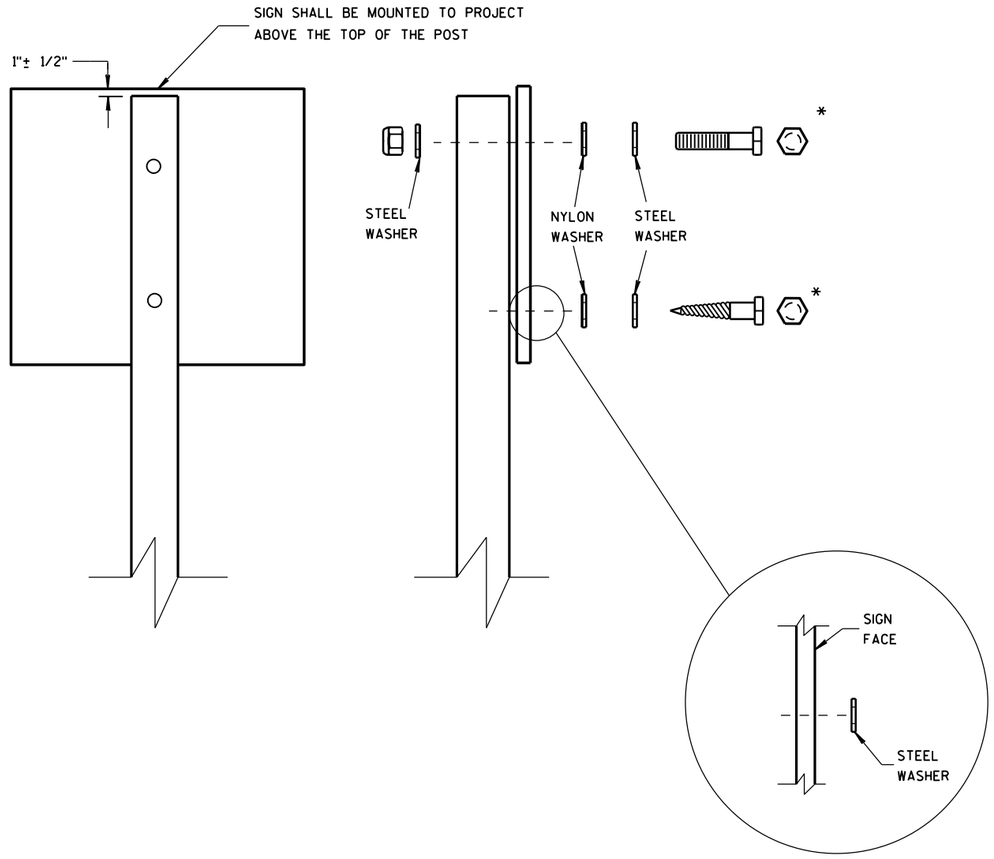
S.D.D. 15 D 28-3



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

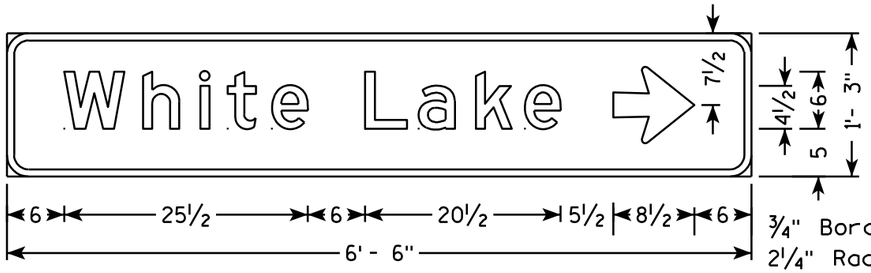
APPROVED

Feb. 2015
DATE

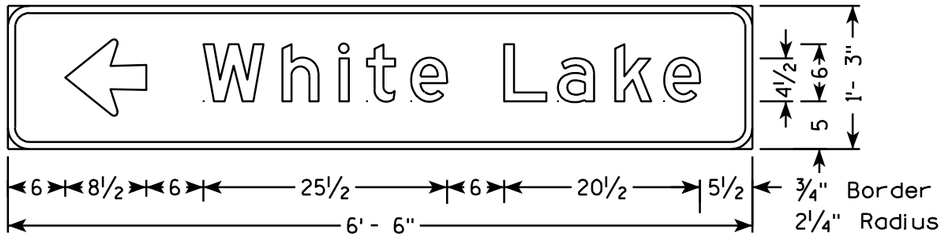
/S/ Travis Feltes
STATE TRAFFIC ENGINEER

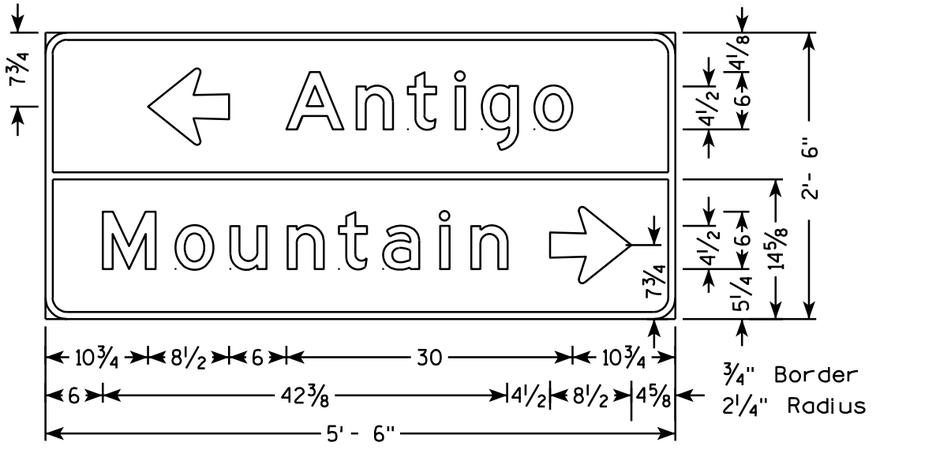
FHWA

SIGN

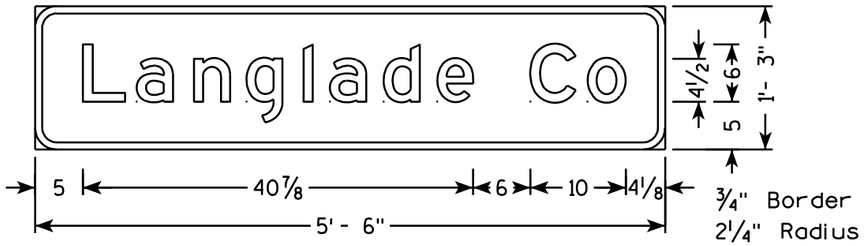


D1-1

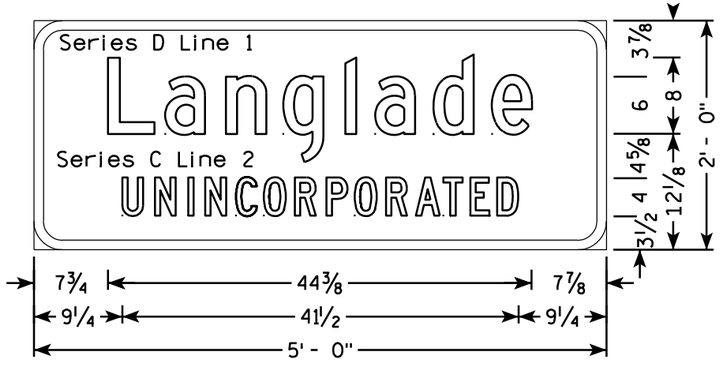




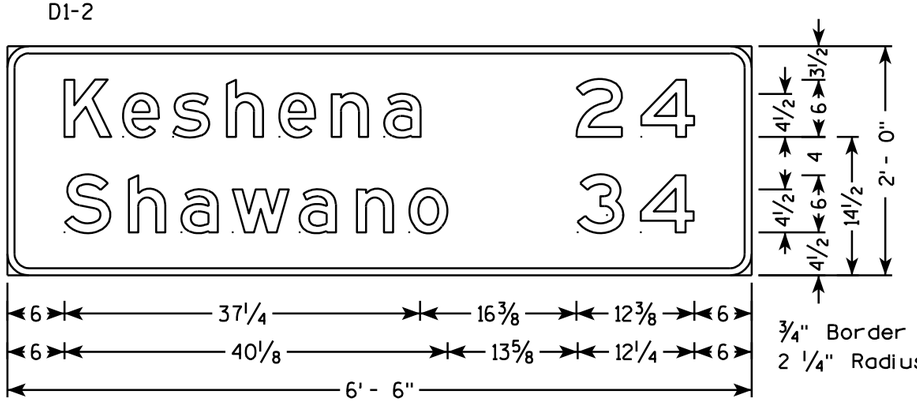
D1-2



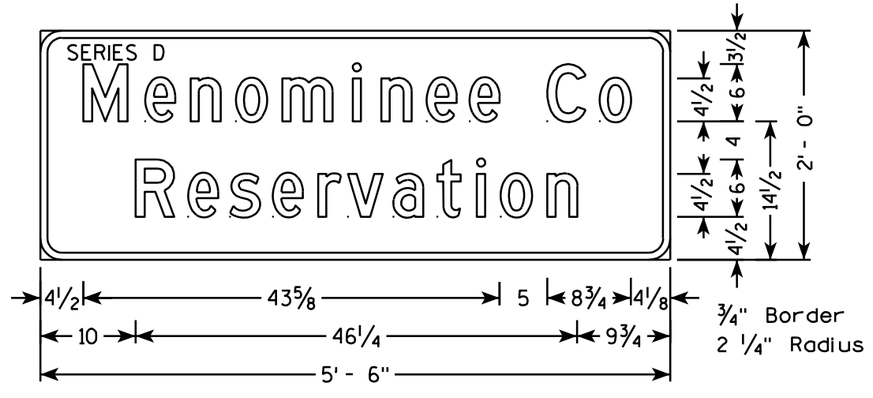
I2-2



I2-3



D2-2



I2-2R

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E except as Shown

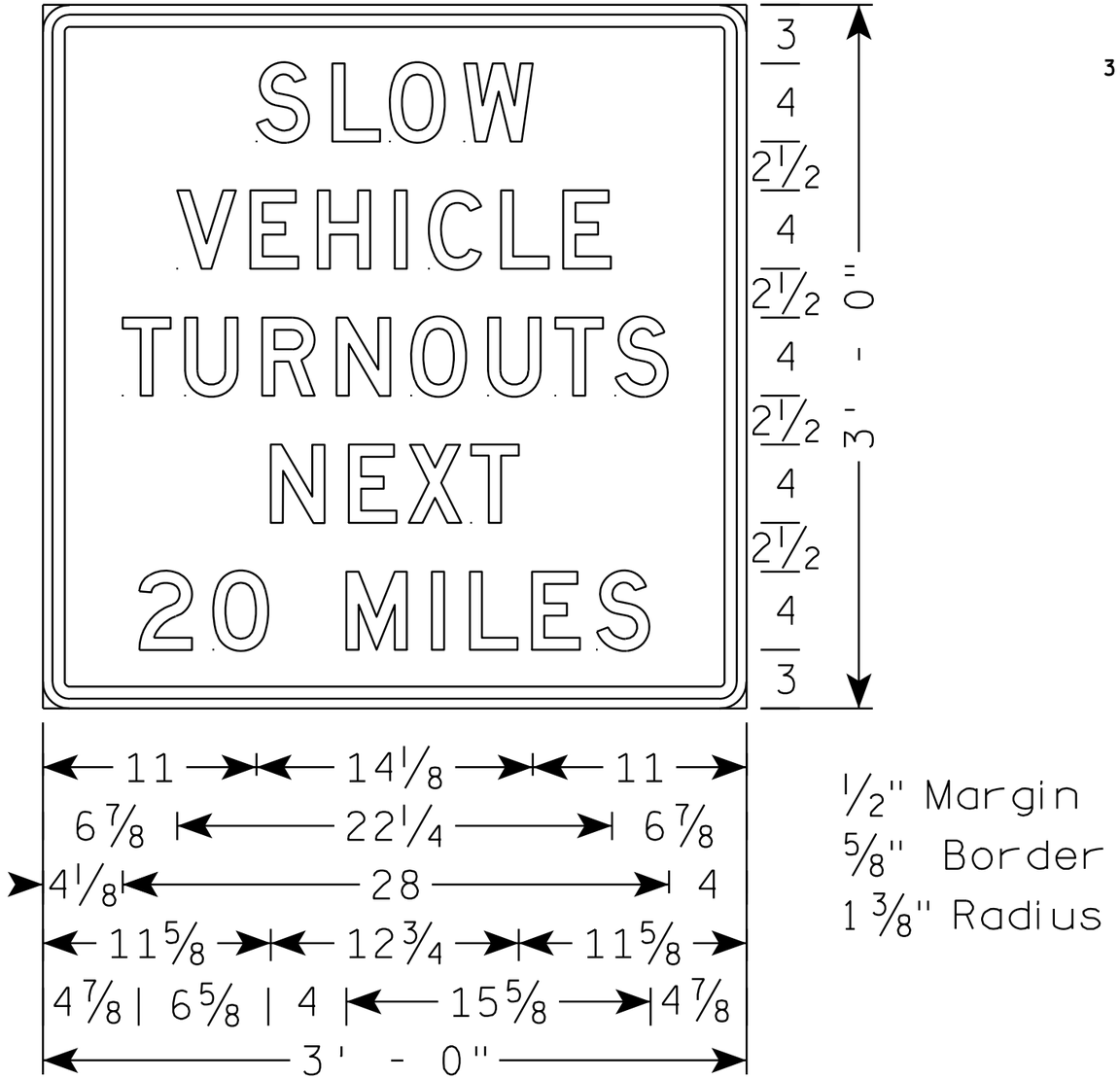
7

7

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET NO: 75	E

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D



1/2" Margin
5/8" Border
1 3/8" Radius

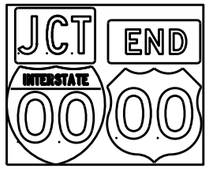
7

7

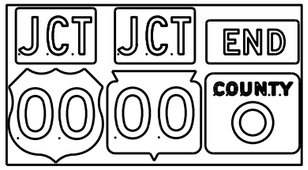
PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET NO: 76	E

TYPICAL ASSEMBLIES

J1-1

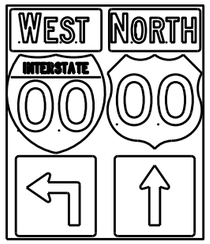


J1-2

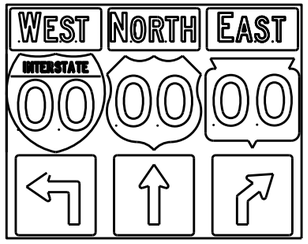


J1-3

J2-1



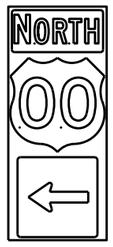
J2-2



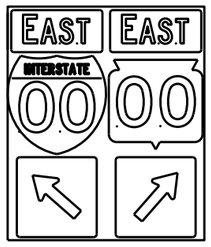
J2-3

JV

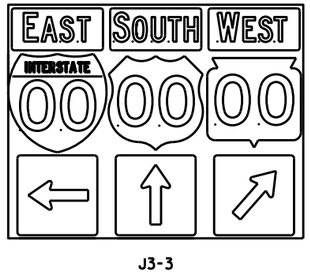
(Typical Vertical J-Assembly
See Note 10 and 11)



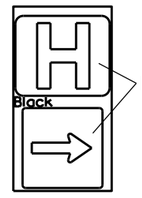
J3-1



J3-2

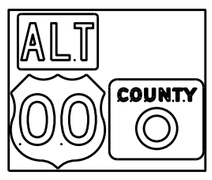


J3-3

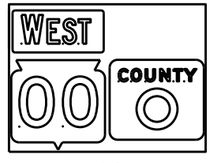


JH-1

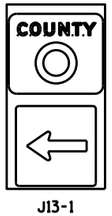
J4-1



J4-2



J4-2



J13-1

J12-1

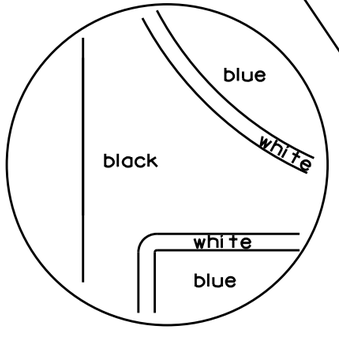
J32-1

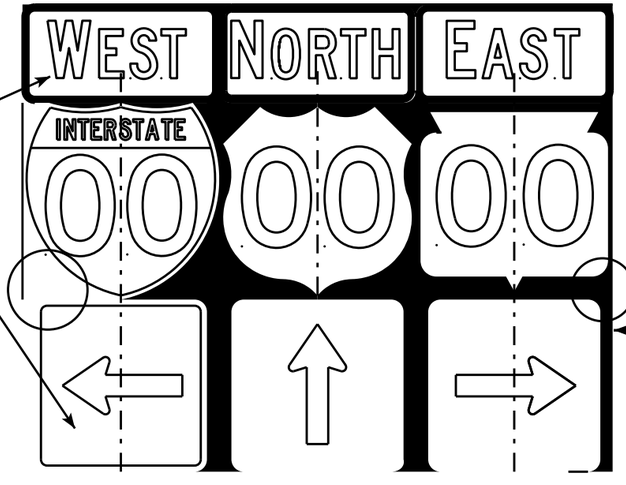
J33-1

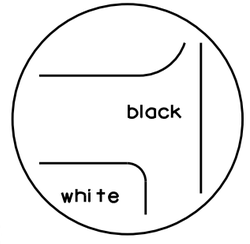
J23-1

J22-1

[blue background with interstate]







[black background]

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 inchs (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.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

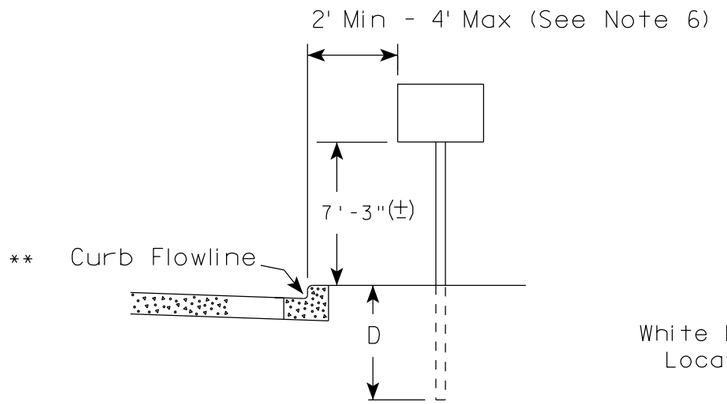
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

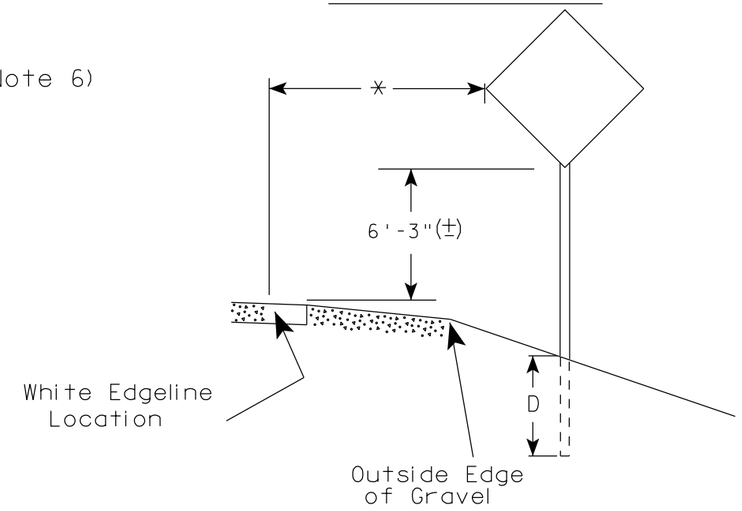
DATE 2/06/14 PL... A2-1S.8

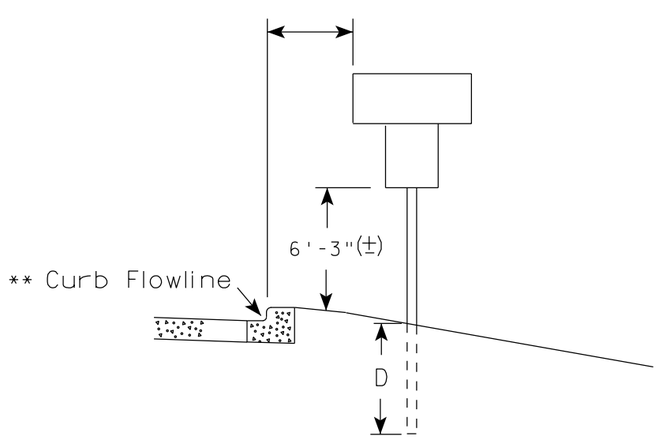
PROJECT NO: | SHEET NO: E

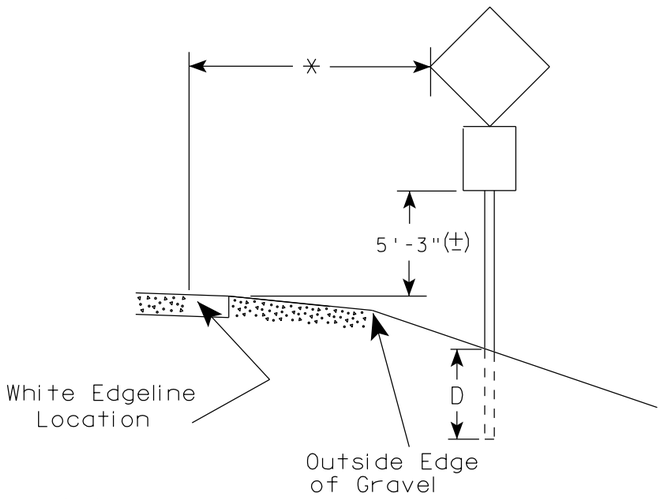
URBAN AREA



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 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 (A2-1S) 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 signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

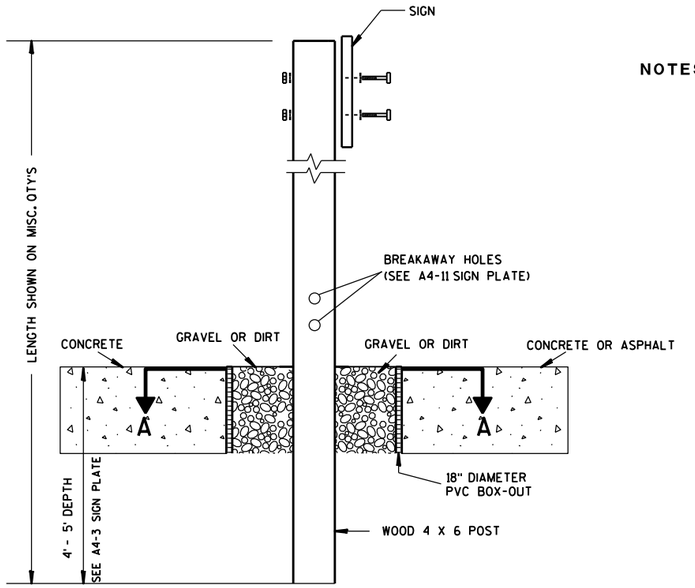
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

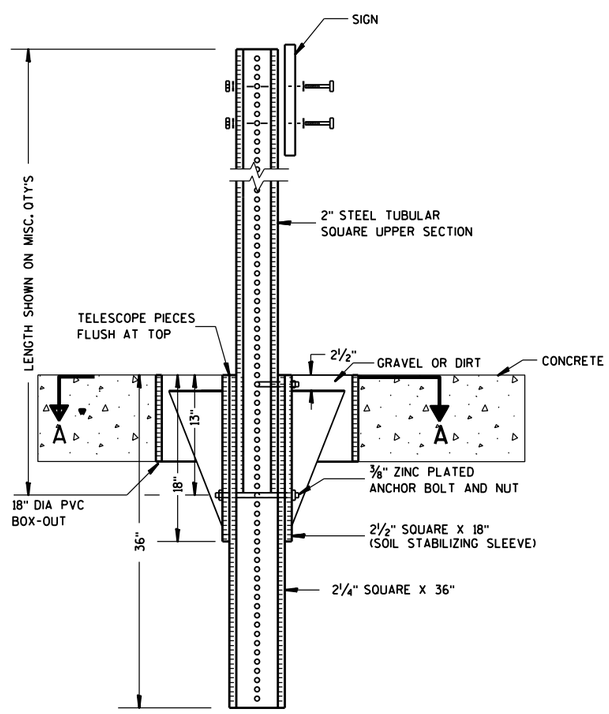
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN PLOT DATE : 23-JUL-2015 15:21 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 99.237937:1.000000 WISDOT/CADDS SHEET 42



ELEVATION VIEW

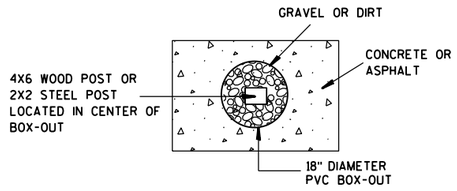
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

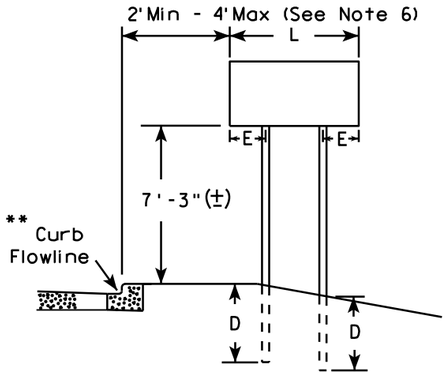
APPROVED Matthew R Rauch
for State Traffic Engineer

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

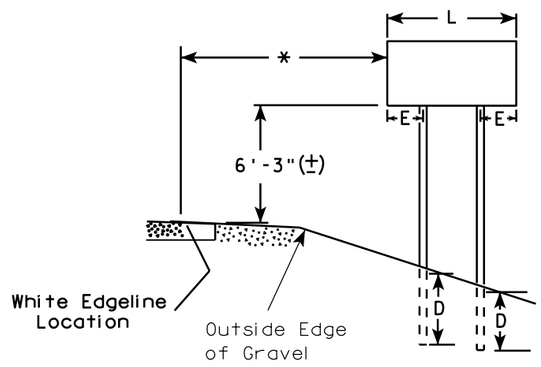
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

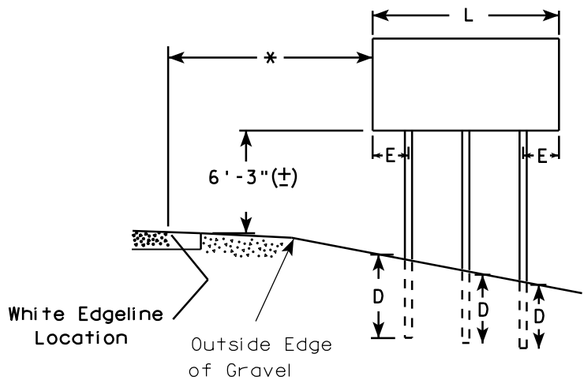
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

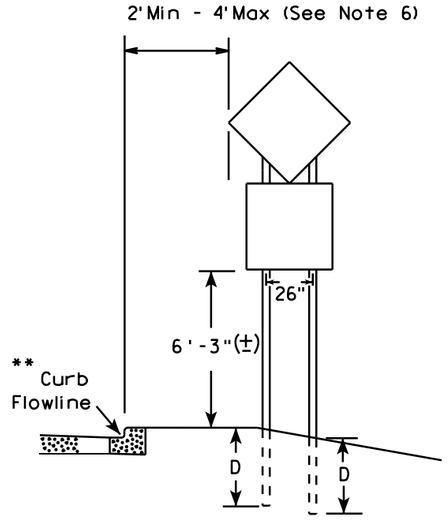
URBAN AREA



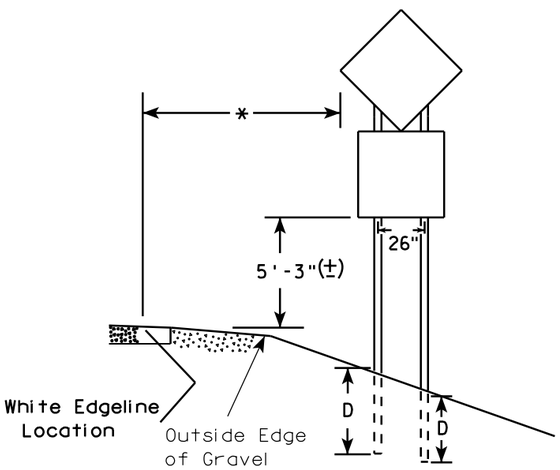
RURAL AREA (See Note 3)







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 (A2-1S) 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 signs 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), In Road Object Markers (W5-54) & End of Road Markers (W5-56) 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 and less than 20 S.F. 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

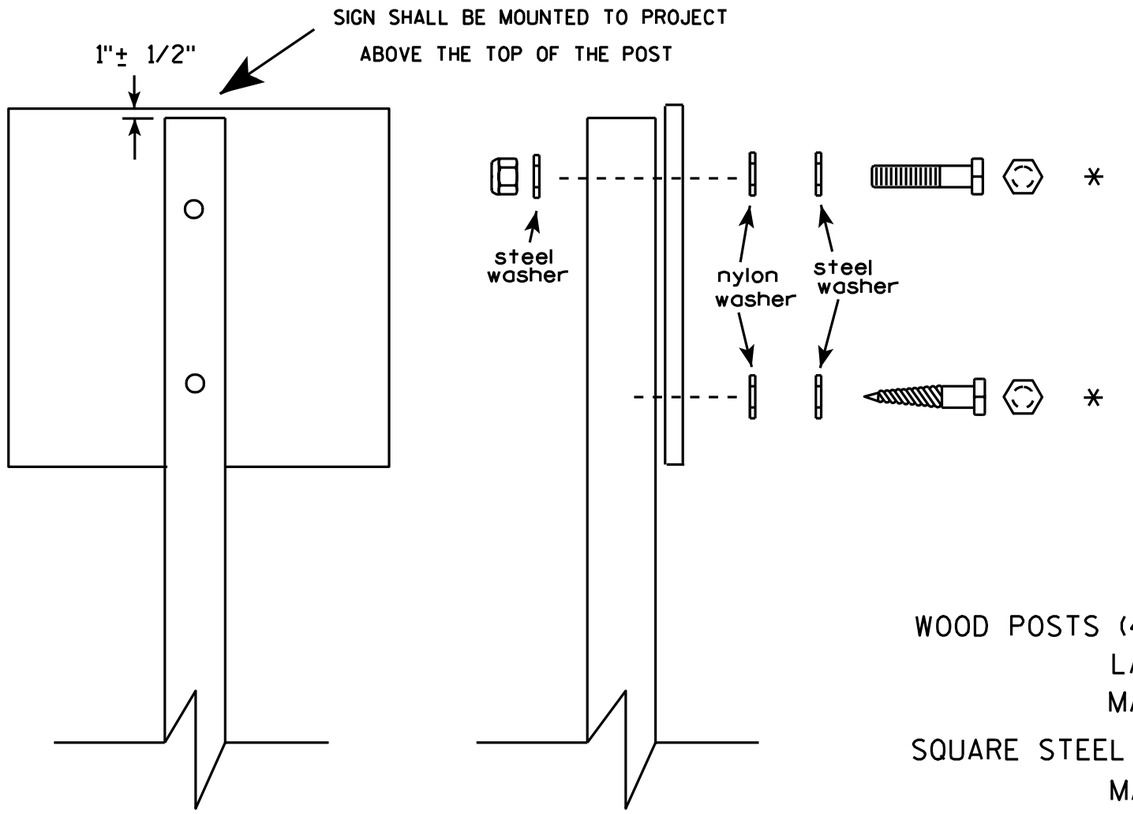
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 14
80

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42



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

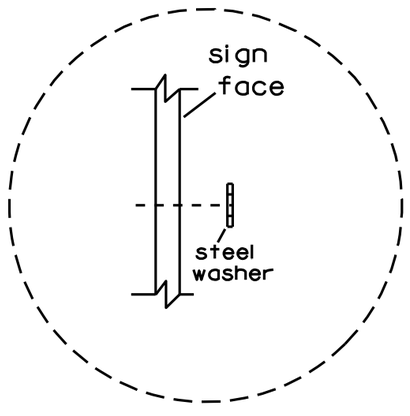
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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 Matthew R Rauch
for State Traffic Engineer

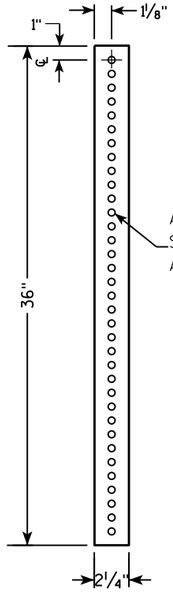
DATE 3/23/10 PLATE NO. A4-8.7

7

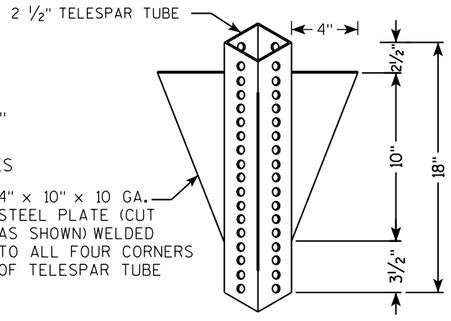
7

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

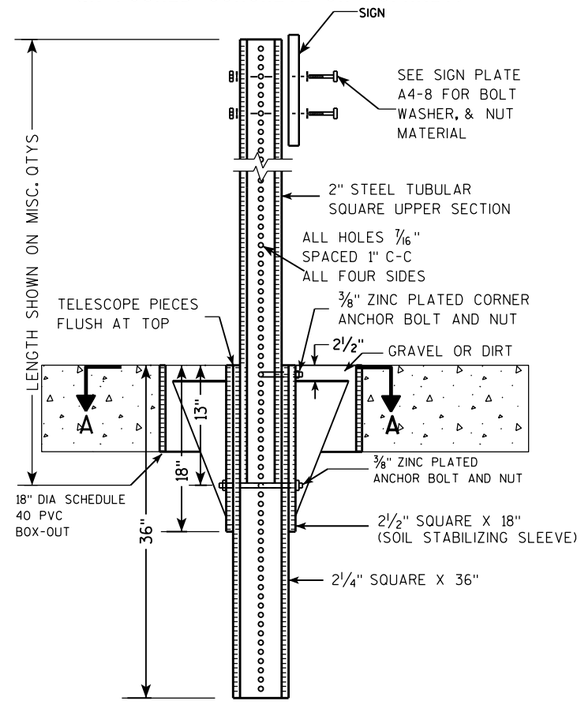
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



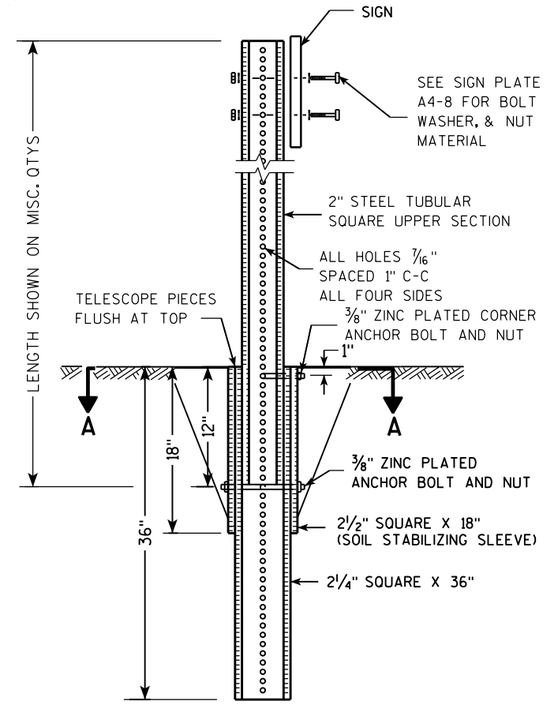
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

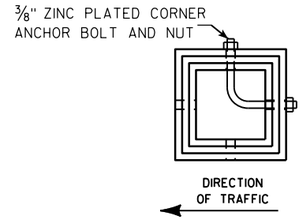


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

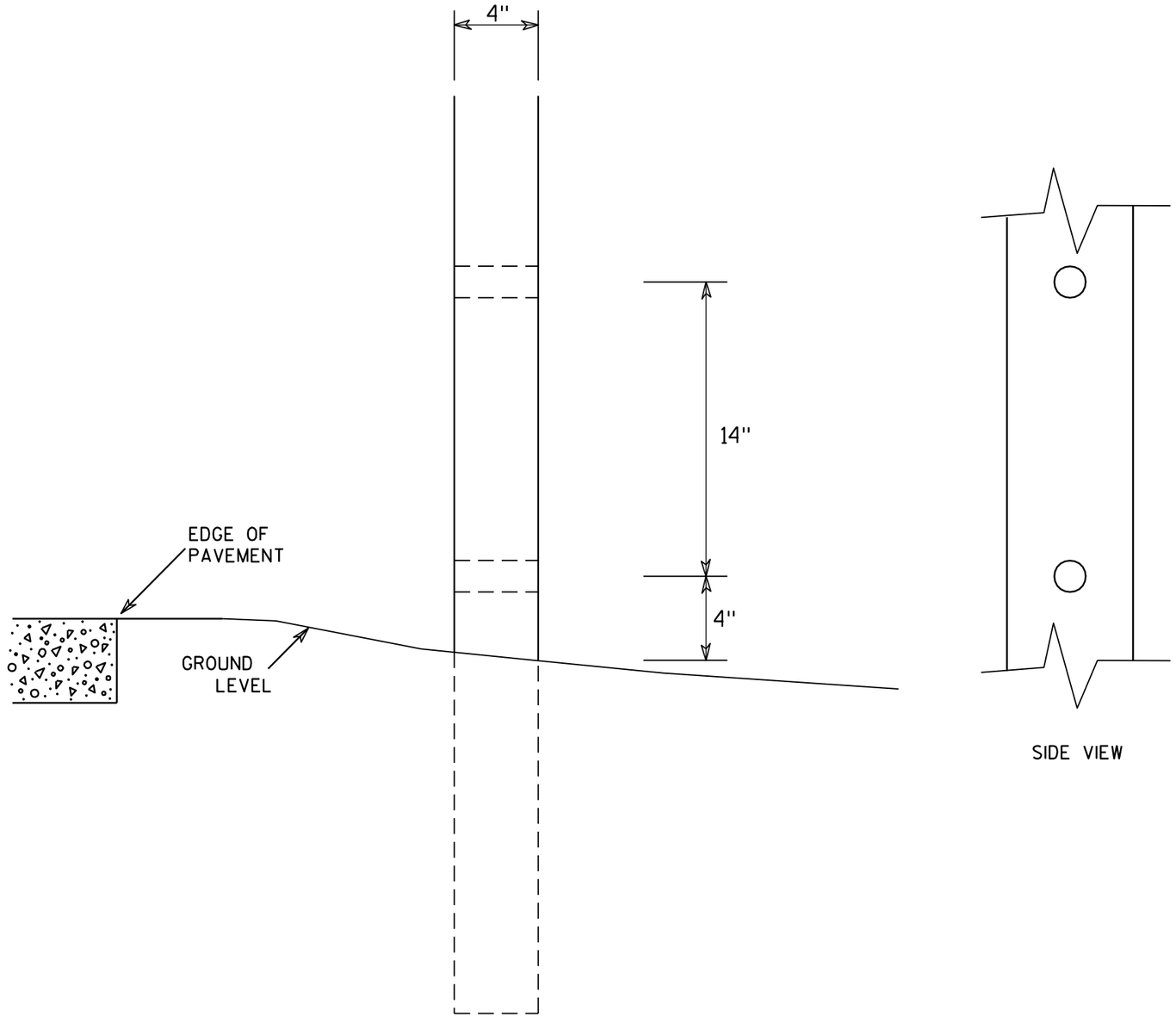
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 82 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

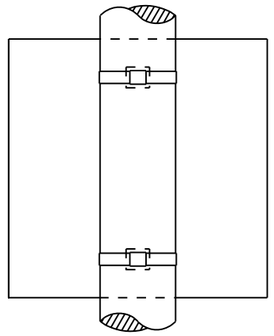
APPROVED Chester J Spang for State Traffic Engineer

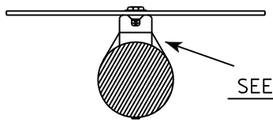
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 83	E

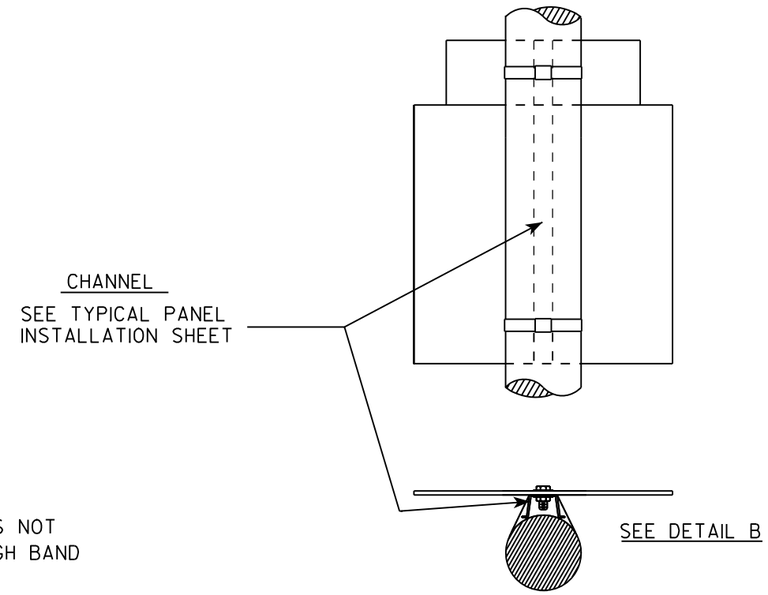
BANDING

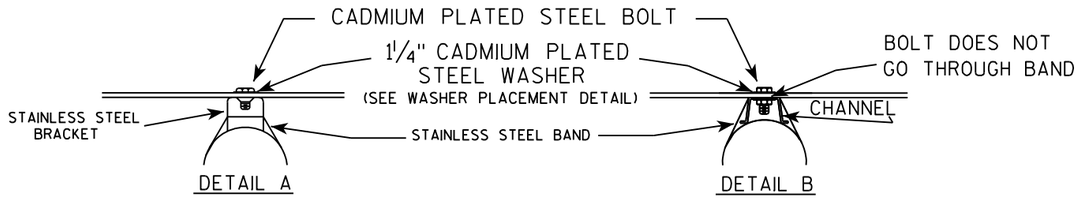
SINGLE SIGN



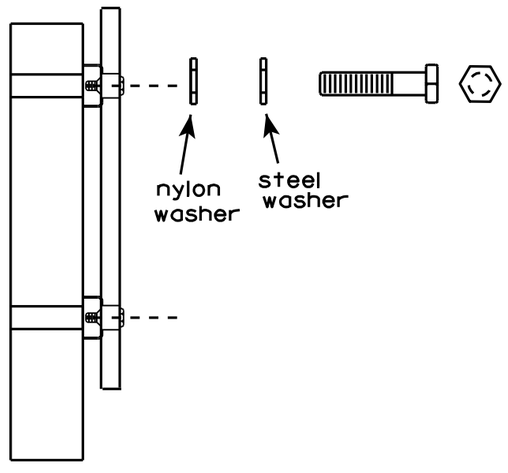


"J" ASSEMBLY





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 3/4" in width and 0.025" thickness.

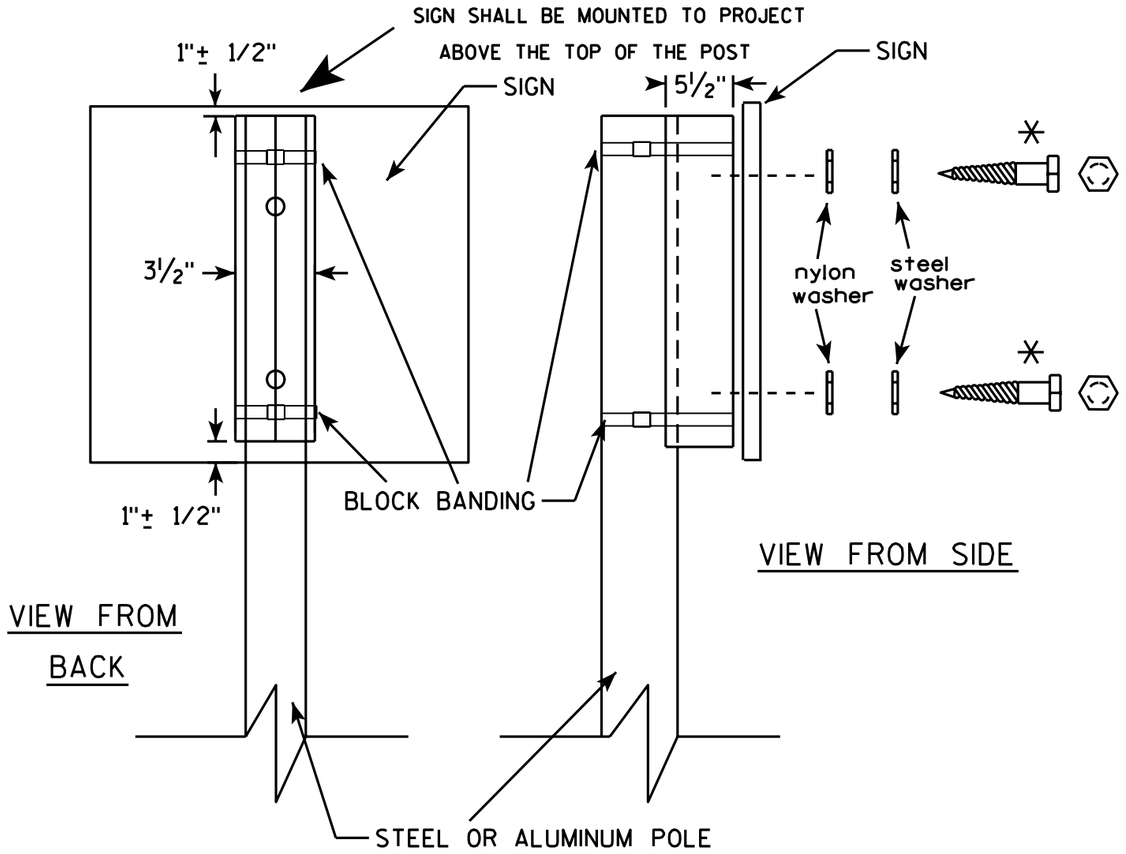
STANDARD SIGN
SIGN BANDING DETAILS

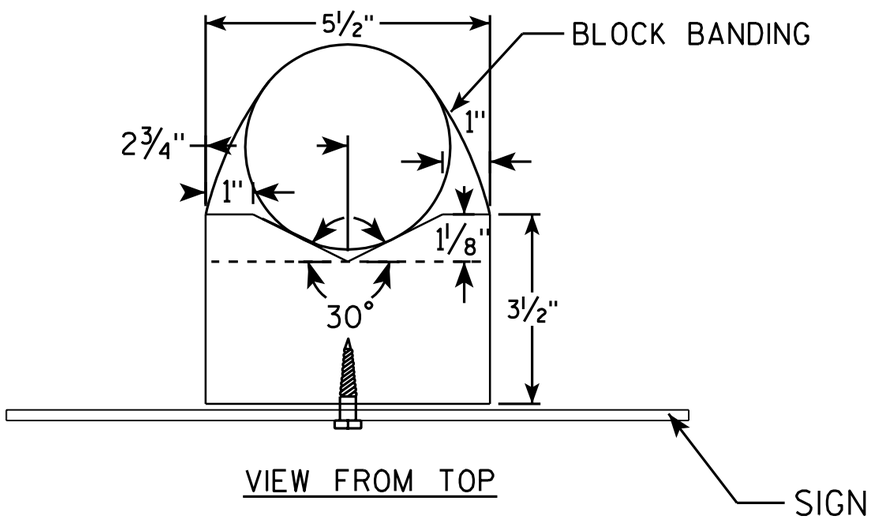
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 84	E





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, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. 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"

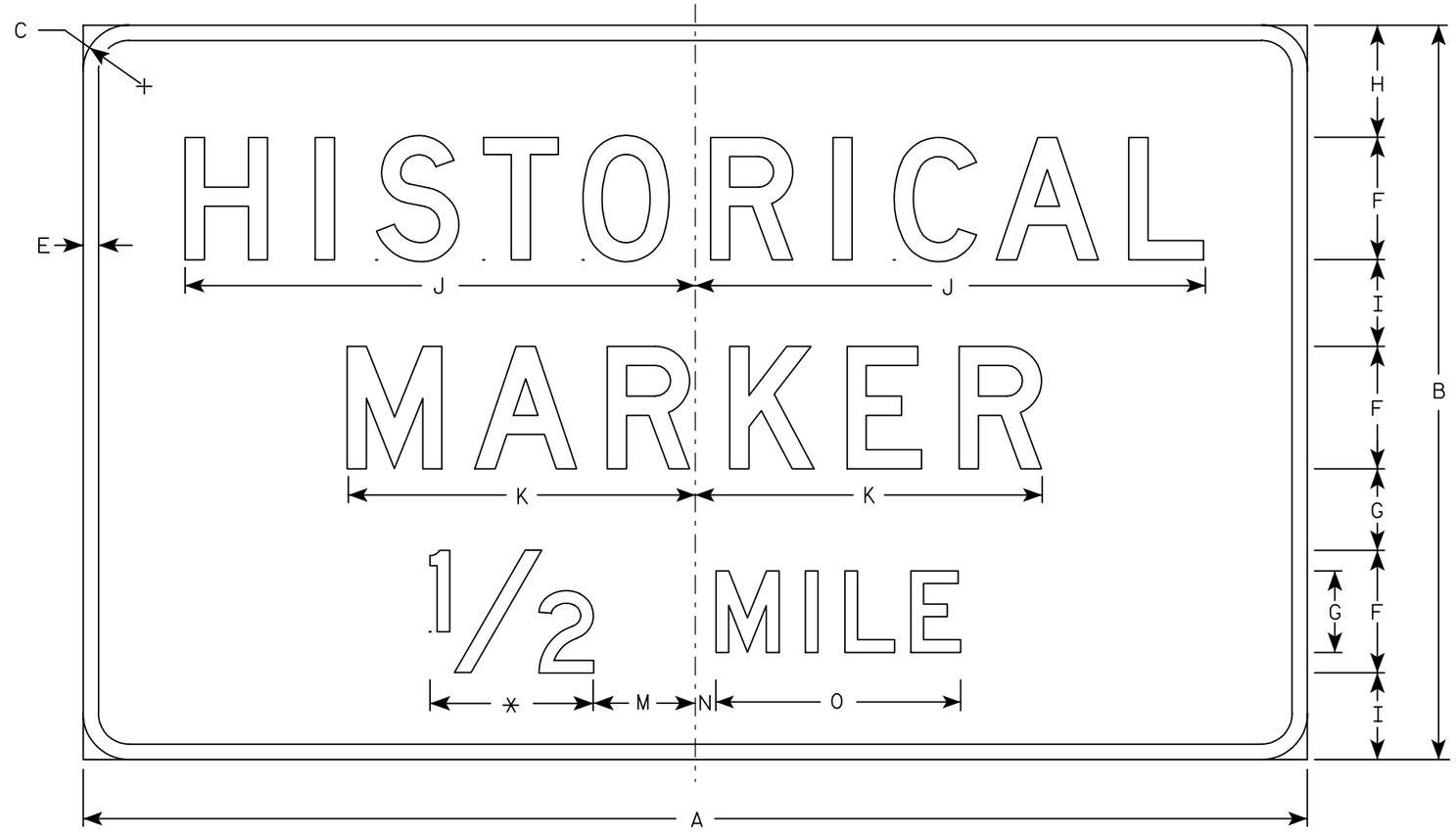
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:				SHEET NO: 85	E



D5-63 * See Note 5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Brown
   Message - White
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.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 900 mm
3	
4	
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.	Area m2
1																												
2	60	36	2 1/4		3/4	6	4	5 1/2	4 1/4	25	17		5	1	12												15.0	1.35
3																												
4																												
5																												

STANDARD SIGN
D5-63

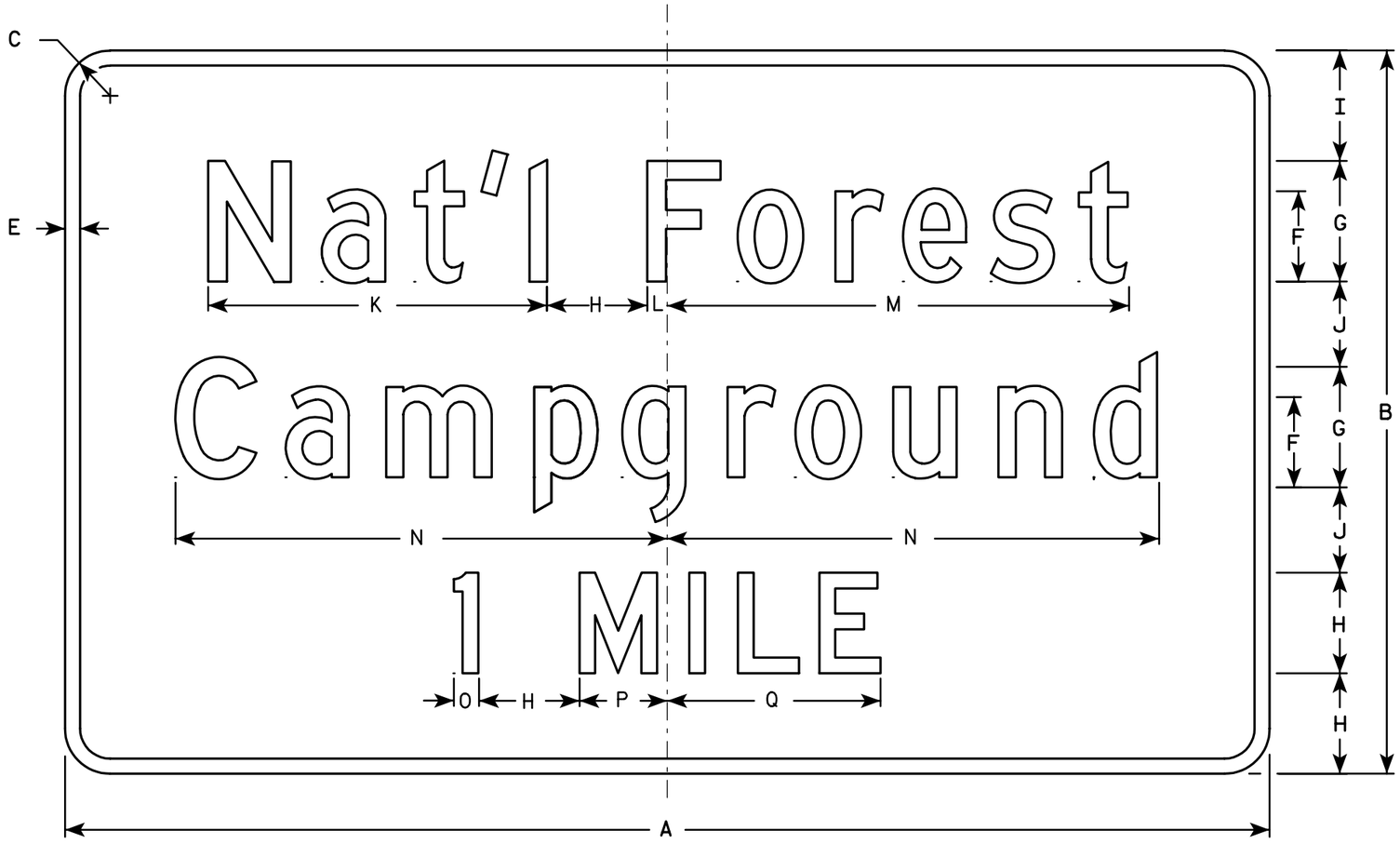
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/23/99 PLATE NO. D5-63.9

STATE PROJECT NUMBER:

SHEET NO: 86 E



D7-61

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 900 mm
3	
4	
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.	Area m2
1																												
2	60	36	2 1/4		3/4	4 1/2	6	5	5 1/2	4 1/4	16 7/8	1	23	24 1/2	1 1/4	4 3/8	10 5/8										15.0	1.35
3																												
4																												
5																												

STANDARD SIGN
D7-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 1/14/02 PLATE NO. D7-61.5

STATE PROJECT NUMBER: | SHEET NO: 87 | E

FILE NAME : C:\Users\Projects\tr_stdplate\D761.DGN PLOT DATE : 22-JAN-2002 08:24 ORG DATE : 12/12/00 Originator : Don Kluever

WISDOT/CADDS SHEET 42

58,59,60,61,62,63

LEVELS ON - 2.3. 5.6. 10.

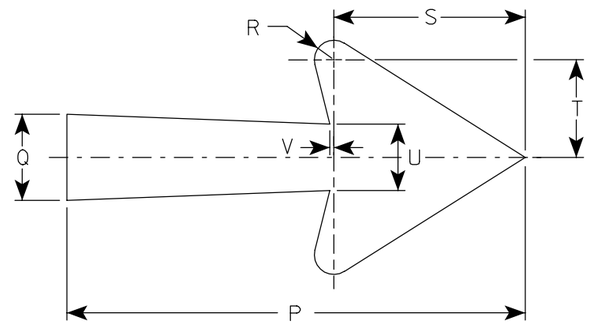
7

7

D7-63R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Brown
   Message - White - Type H Reflective
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.
5. D7-63L is the same as D7-63R except that the arrow is reversed.



Arrow Detail

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 900 mm
3	
4	
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.	Area m2
1																												
2	60	36	2 1/4		3/4	4 1/2	6	5 1/2	4 1/4	7	7 1/4	16 7/8	1	23	24 1/2	21	3 1/4	5/8	6 1/8	3 1/8	2 1/8	1/8	5				15.0	1.35
3																												
4																												
5																												

STANDARD SIGN
D7-63

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spacy for State Traffic Engineer

DATE 1/14/02 PLATE NO. D7-63.4

STATE PROJECT NUMBER:

SHEET NO: 88 E

FILE NAME : C:\Users\Projects\tr_stdplate\D763.DGN PLOT DATE : 22-JAN-2002 08:28 ORG DATE : 6/26/97 Originator : Don Kluever

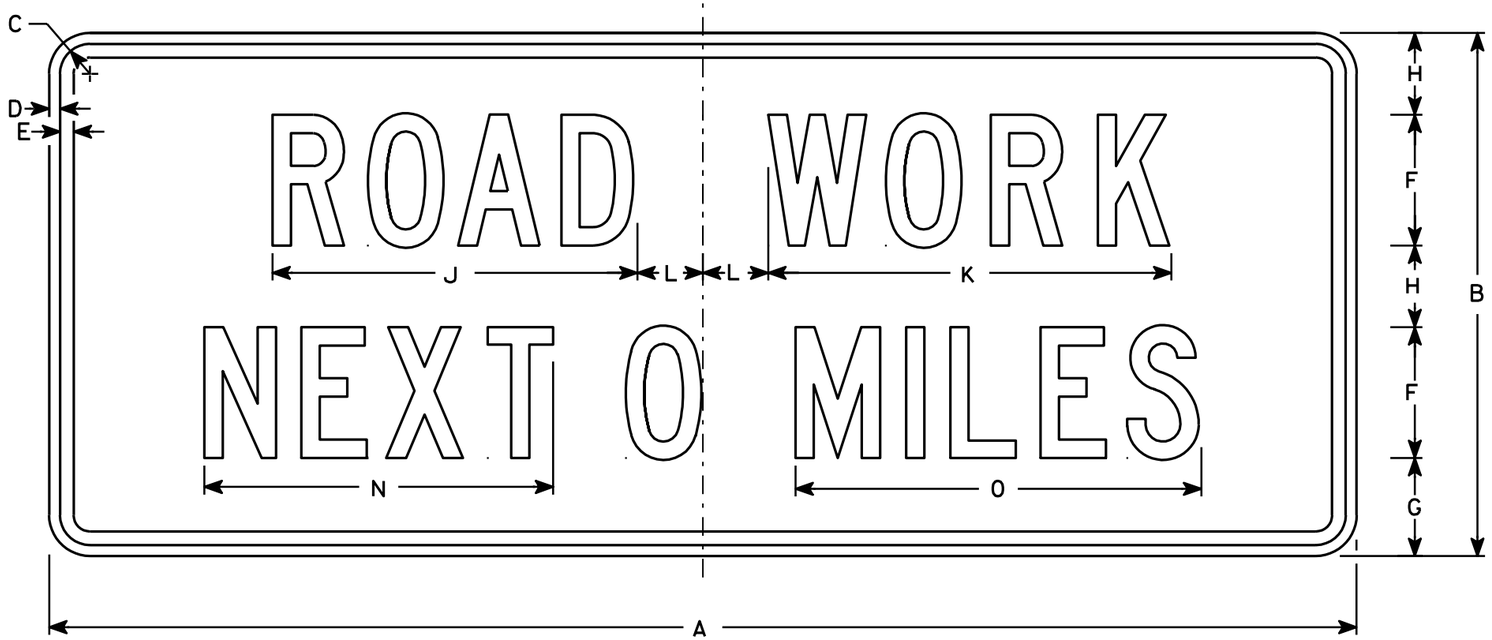
WISDOT/CADDS SHEET 42

58,59,60,61,62,63

LEVELS ON • 2.3. 5.6. 10.

7

7



G20-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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 and optically adjust spacing to achieve proper balance

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 600 mm
3	
4	1500 mm X 600 mm
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.	Area m2
1																												
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10	.90
5																												

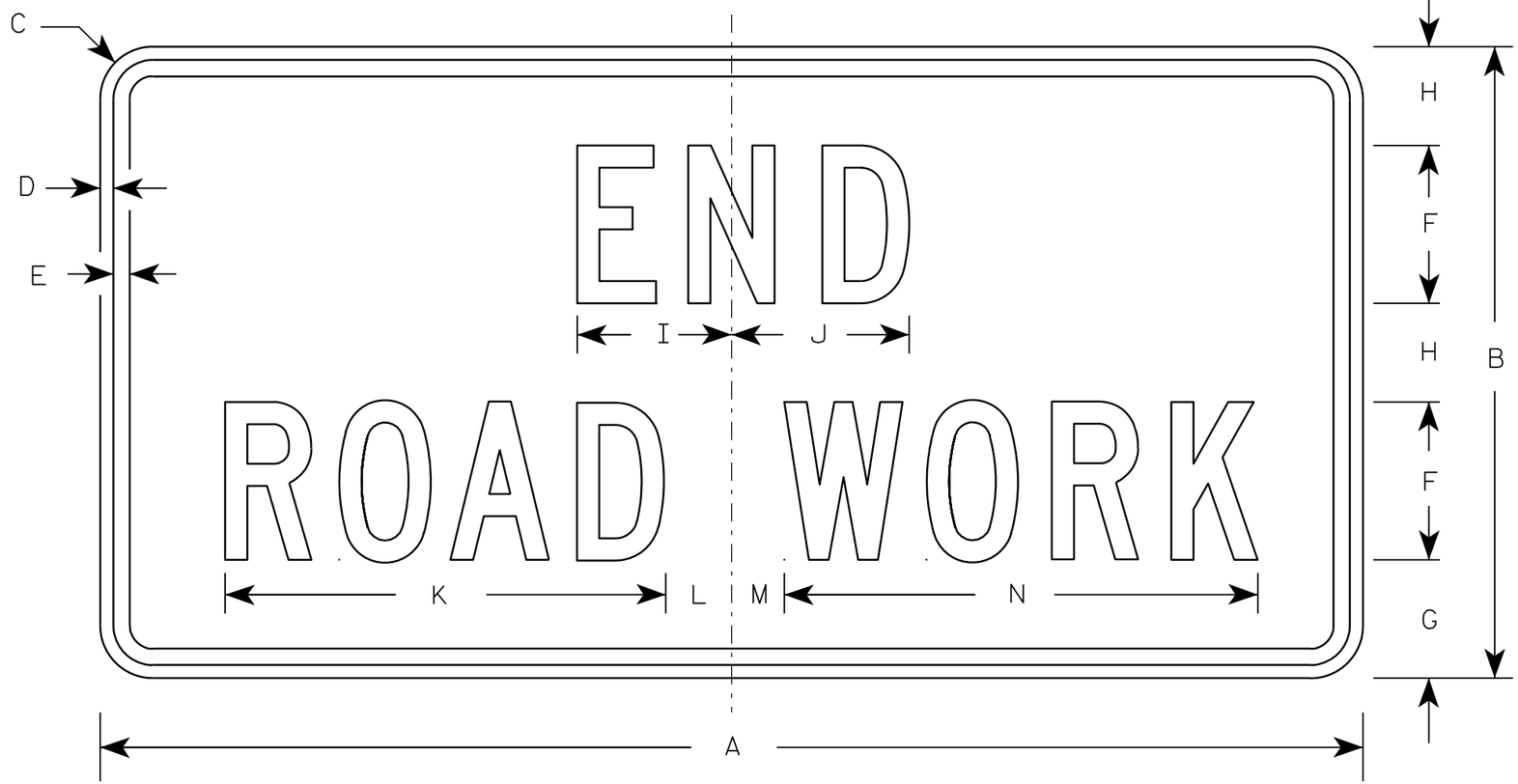
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spray for State Traffic Engineer

DATE 4/8/97 PLATE NO. G20-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 89	E



G20-2A

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 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 m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

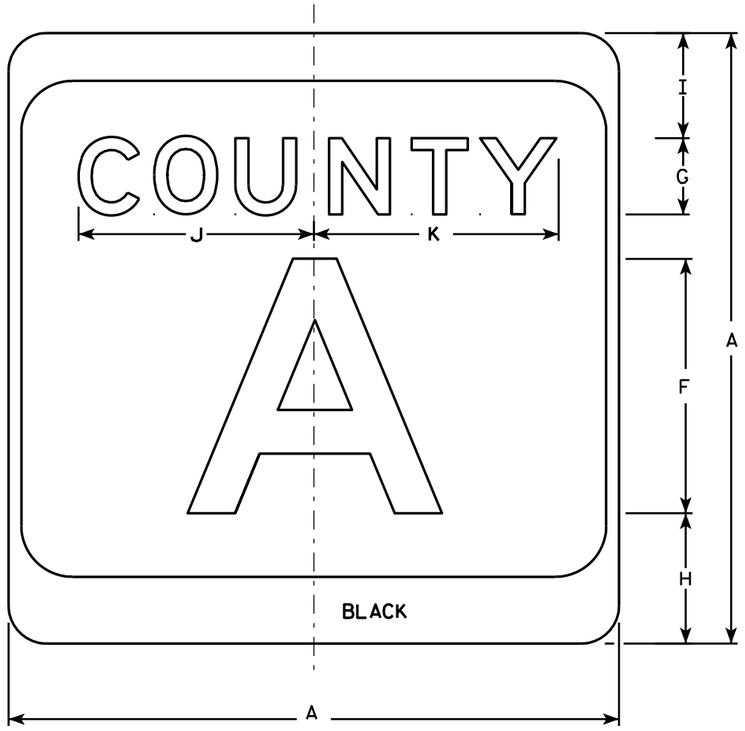
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

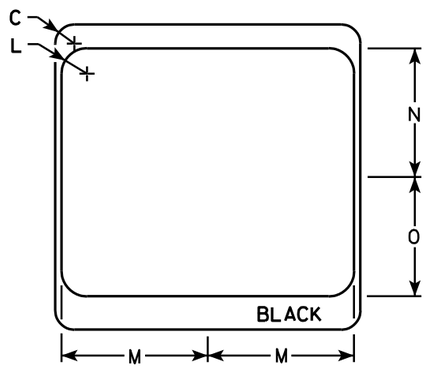
APPROVED Matthew R Rauch
for State Traffic Engineer

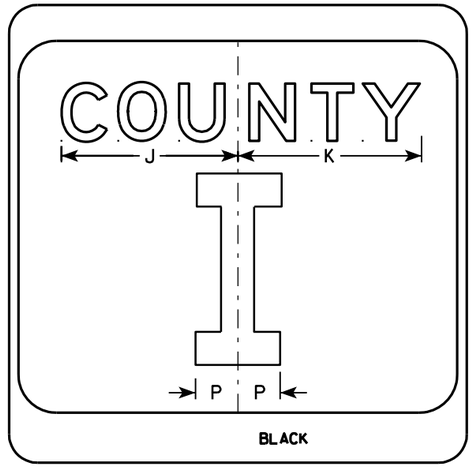
DATE 9/30/09 PLATE NO. G20-2A.8

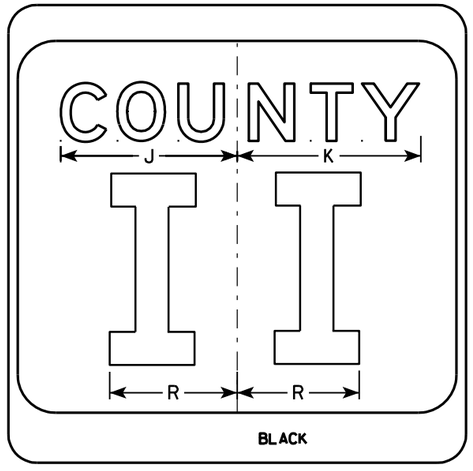
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 90	E



M1-5A







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

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

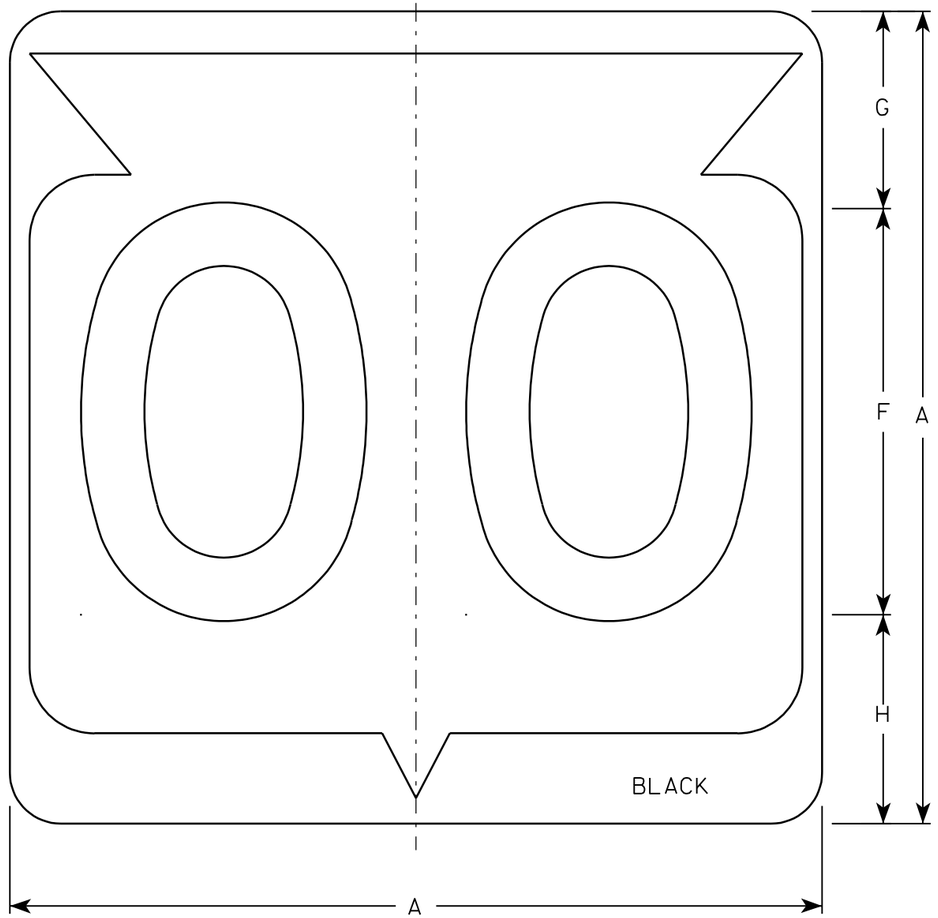
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

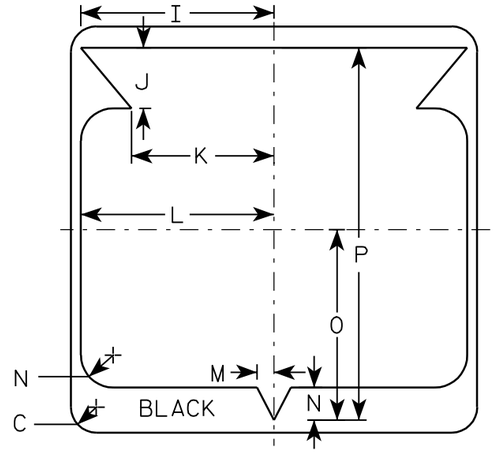
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 91 | E



M1-6

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



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 m2
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

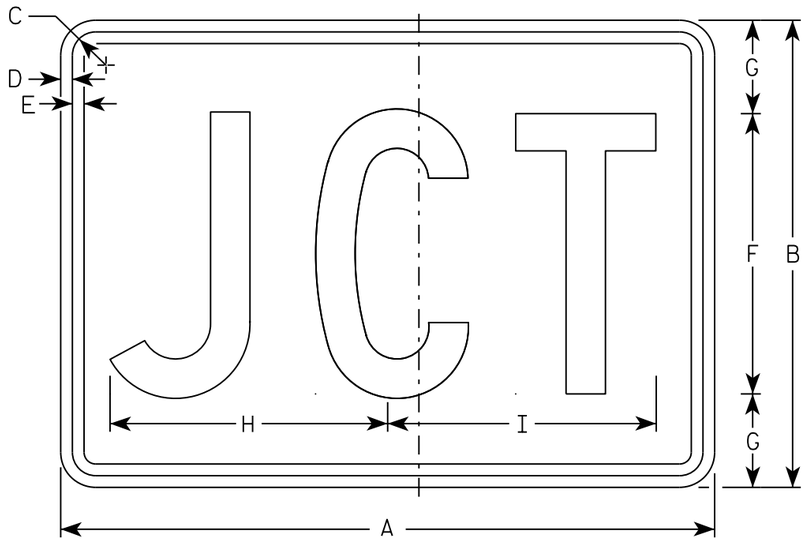
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

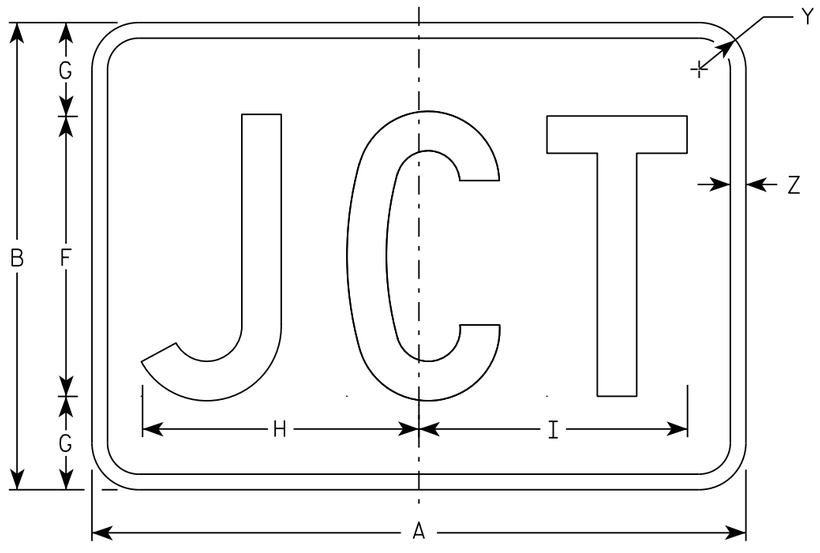
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 92	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
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. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

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	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

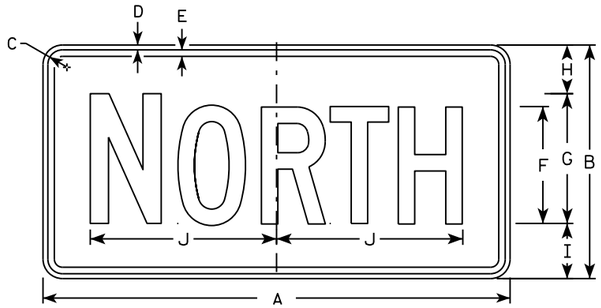
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

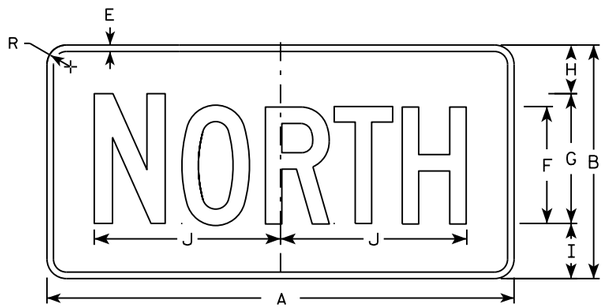
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 93 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



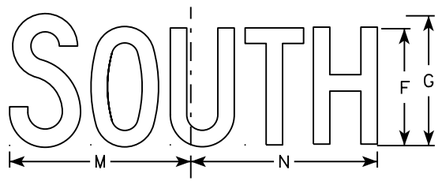
M3-1
MM3-1
MP3-1



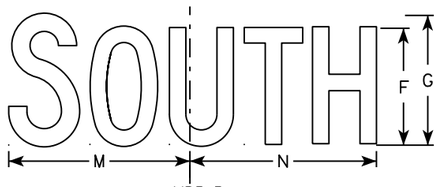
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

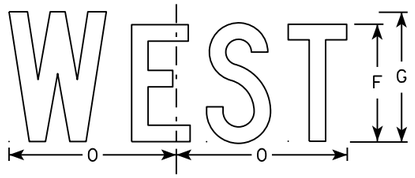
MB3-2
MK3-2
MN3-2



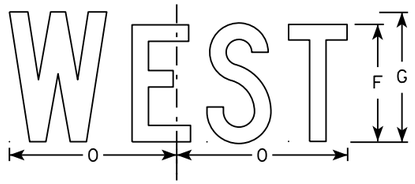
M3-3
MM3-3
MP3-3



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
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																											
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

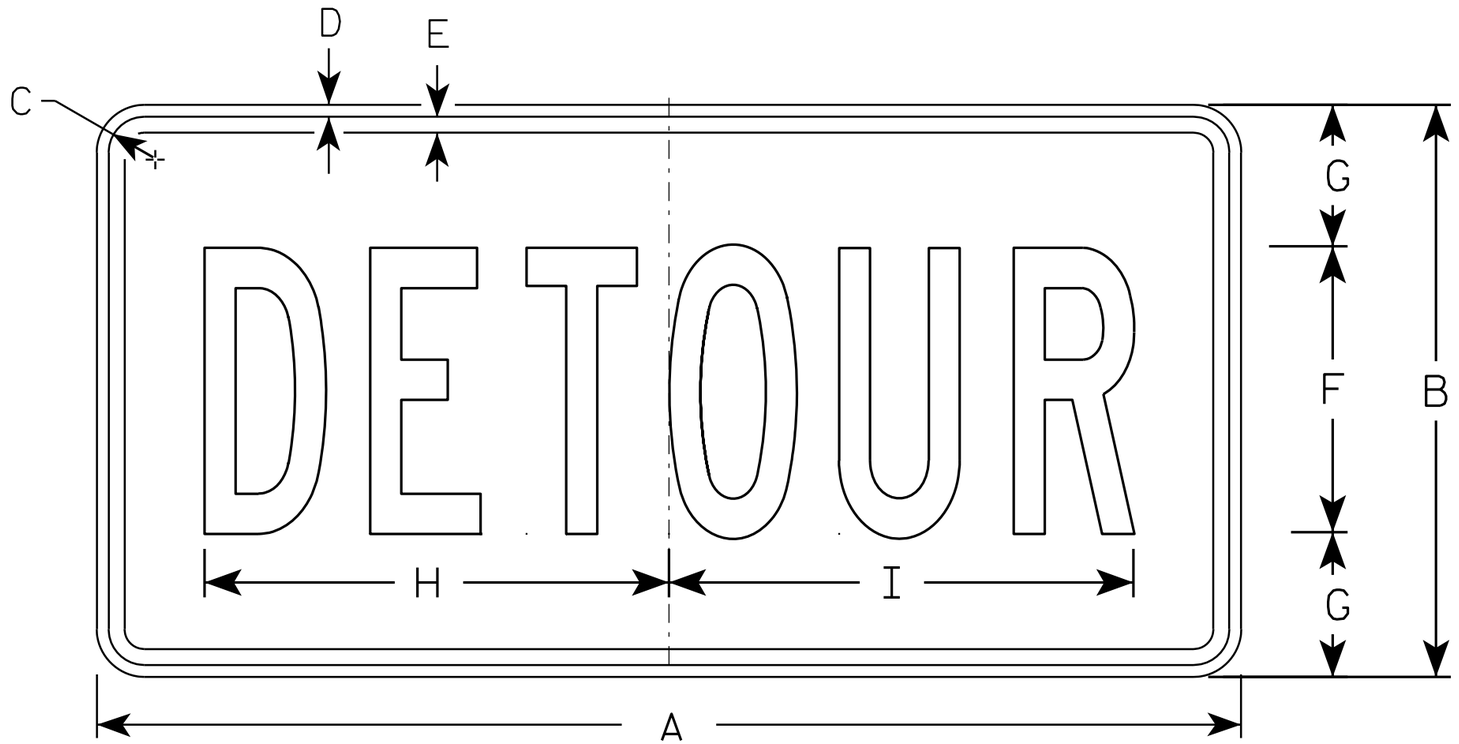
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

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



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

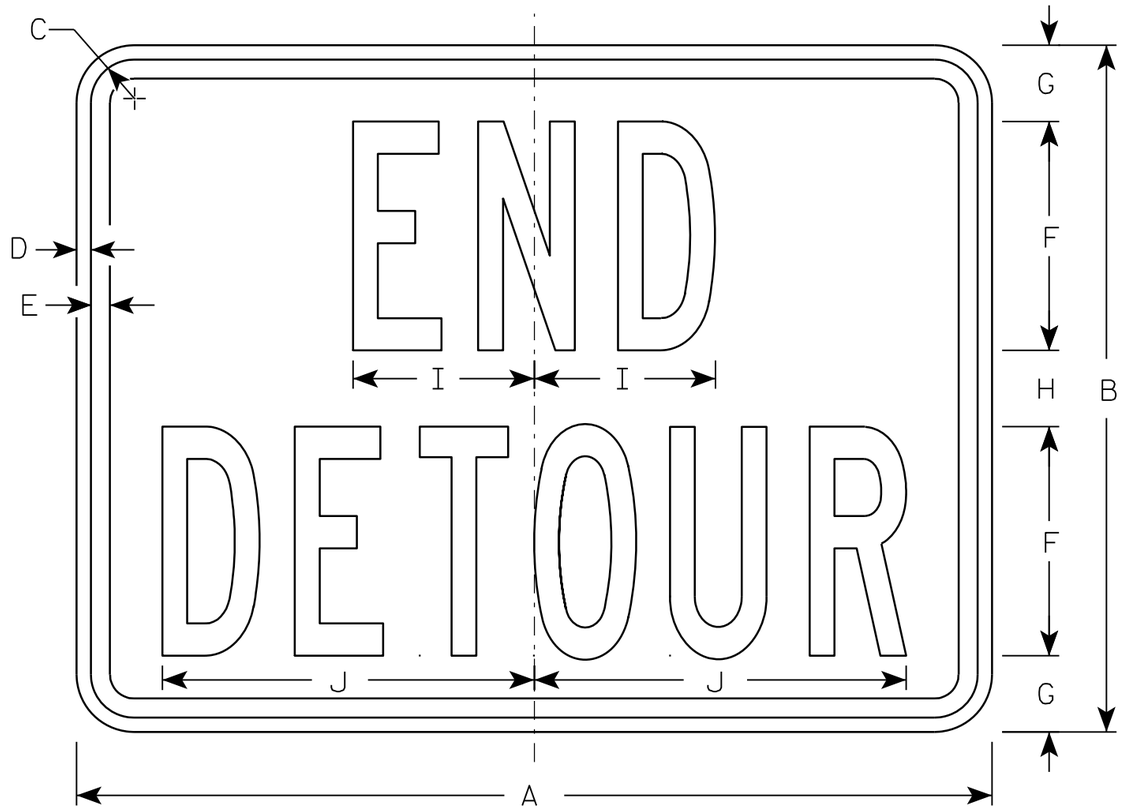
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 95	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

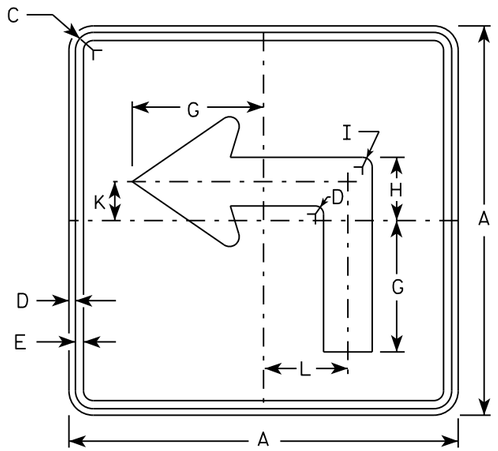
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

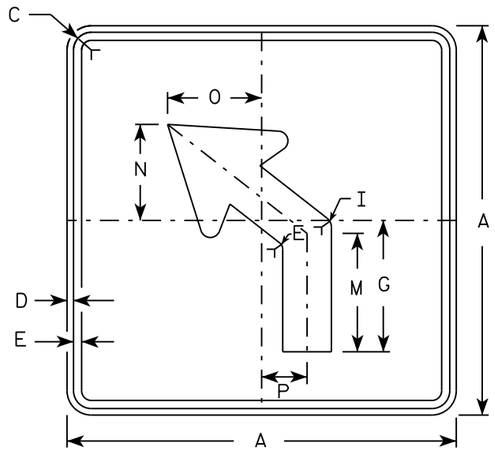
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

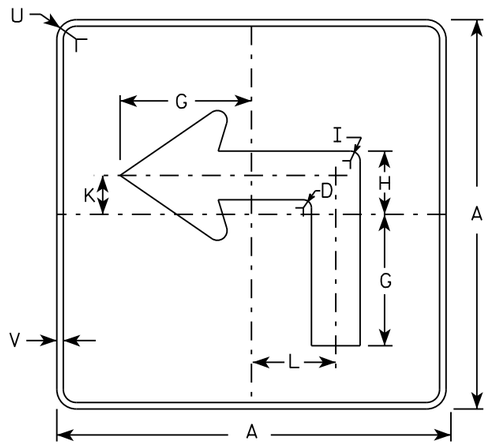
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 96	E



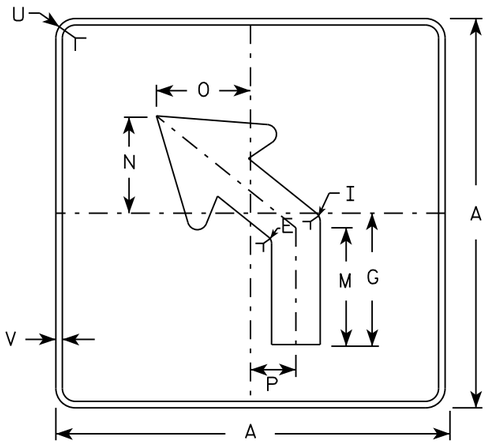
M5-1L
MM5-1L
MO5-1L
MP5-1L



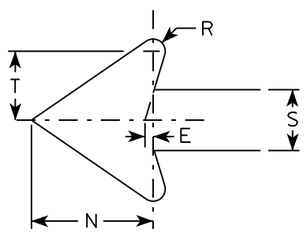
M5-2L
MM5-2L
MO5-2L
MP5-2L



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 - Type H Reflective
   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.

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

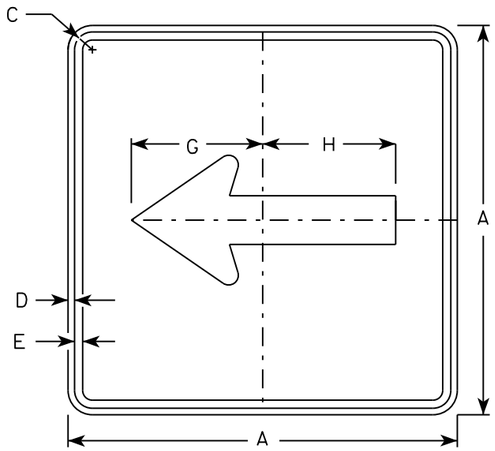
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

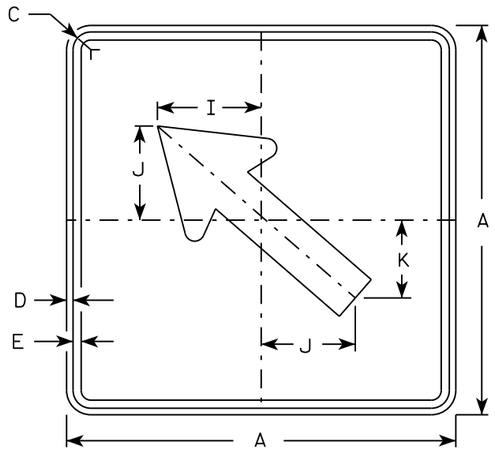
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M5-1.13

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



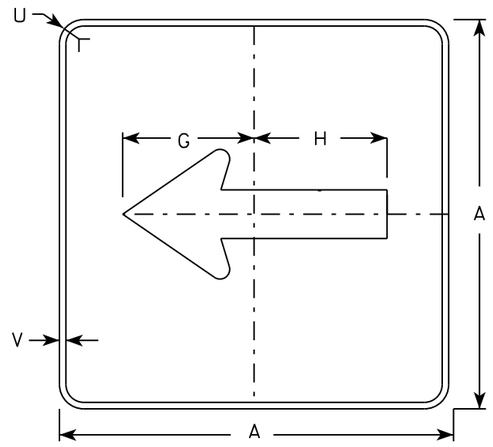
M6-1
MM6-1
MO6-1
MP6-1



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

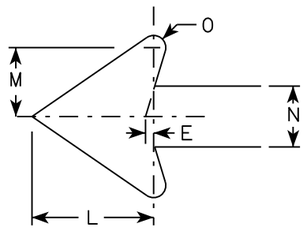
NOTES

1. Signs are Type II - Type H 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



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

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



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

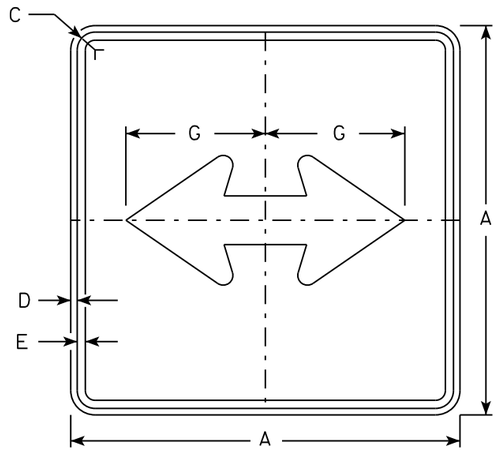
STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

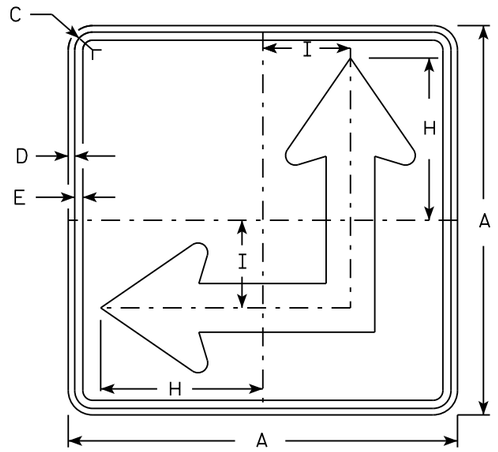
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 98 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



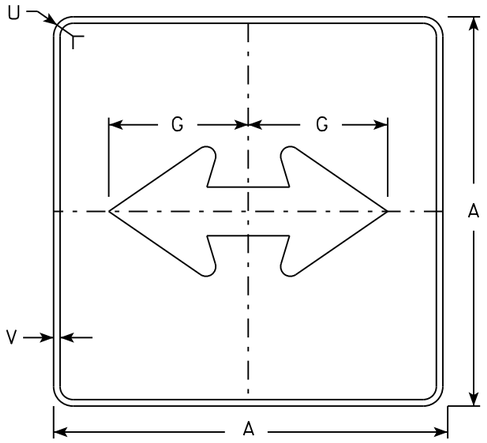
M6-4
MM6-4
MO6-4
MP6-4



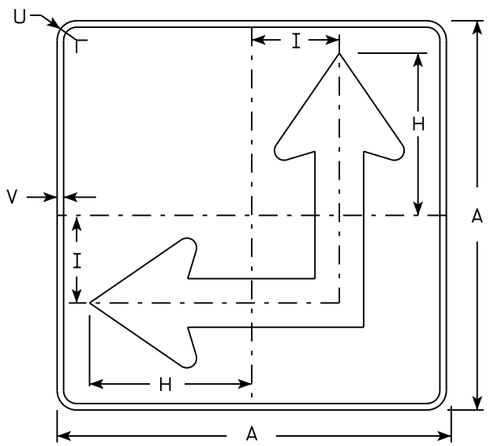
M6-6
MM6-6
MO6-6
MP6-6

NOTES

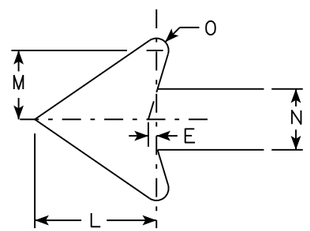
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



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

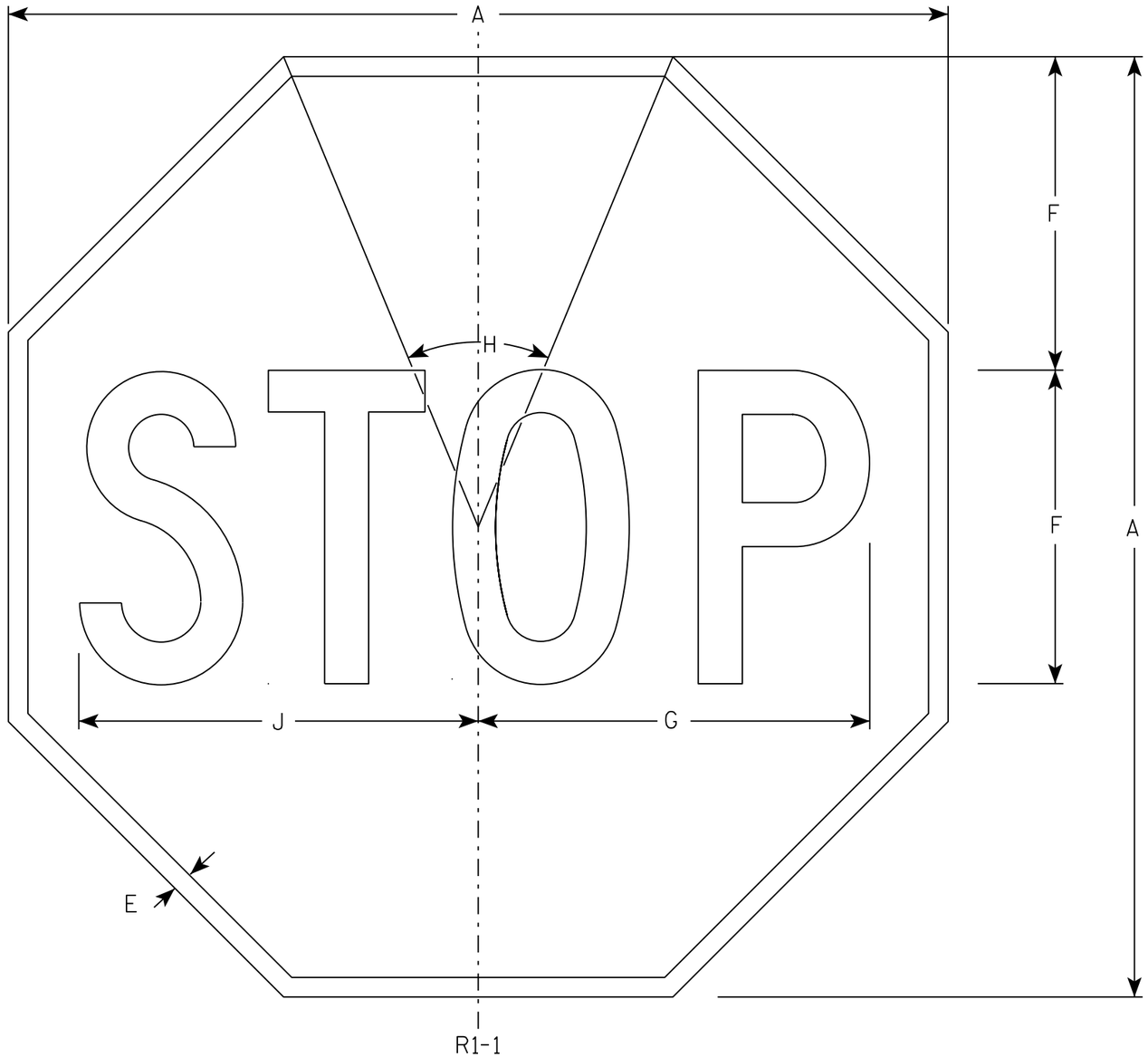
STANDARD SIGN
M6-4 & M6-6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATI 99 M6-4.10

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



R1-1

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

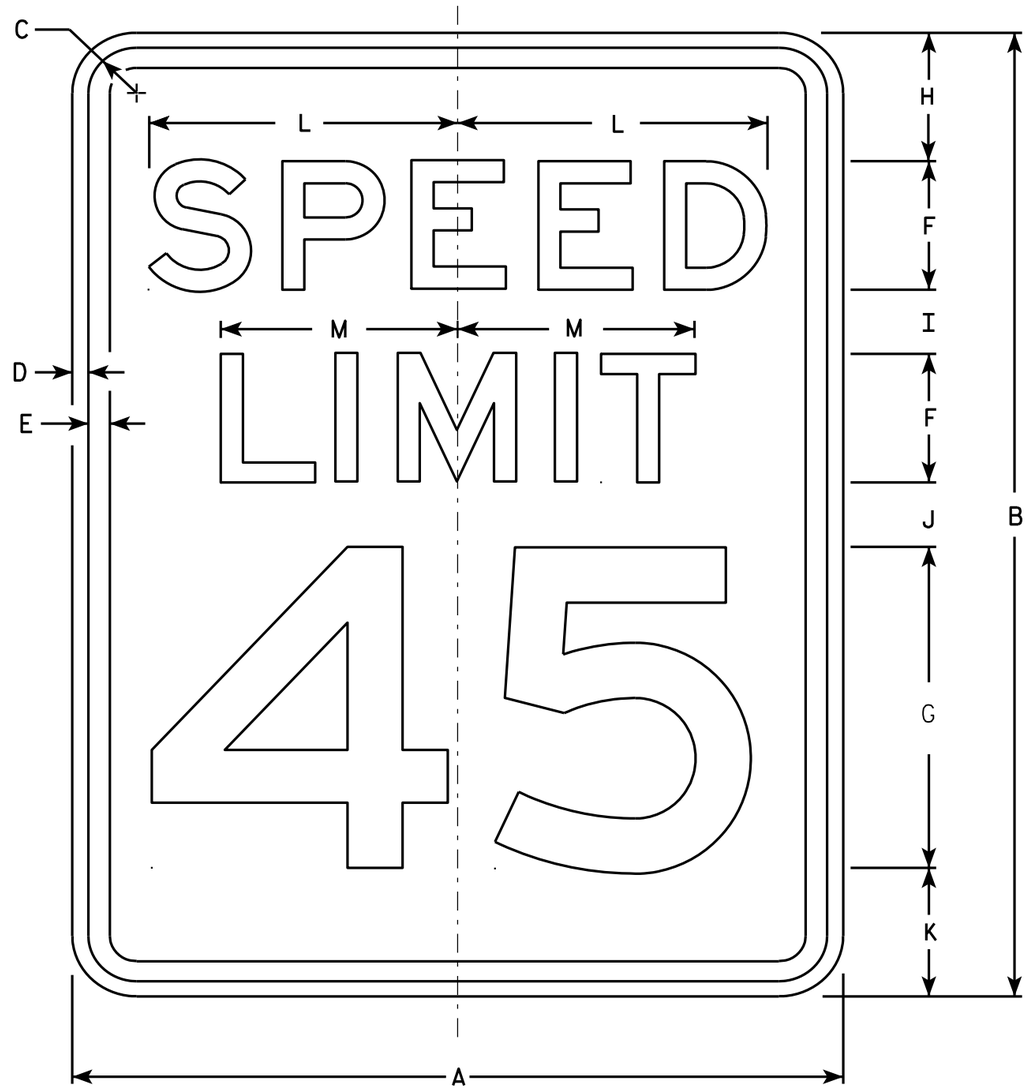
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE 100 R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
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 and optically adjust spacing to achieve proper balance.

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	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

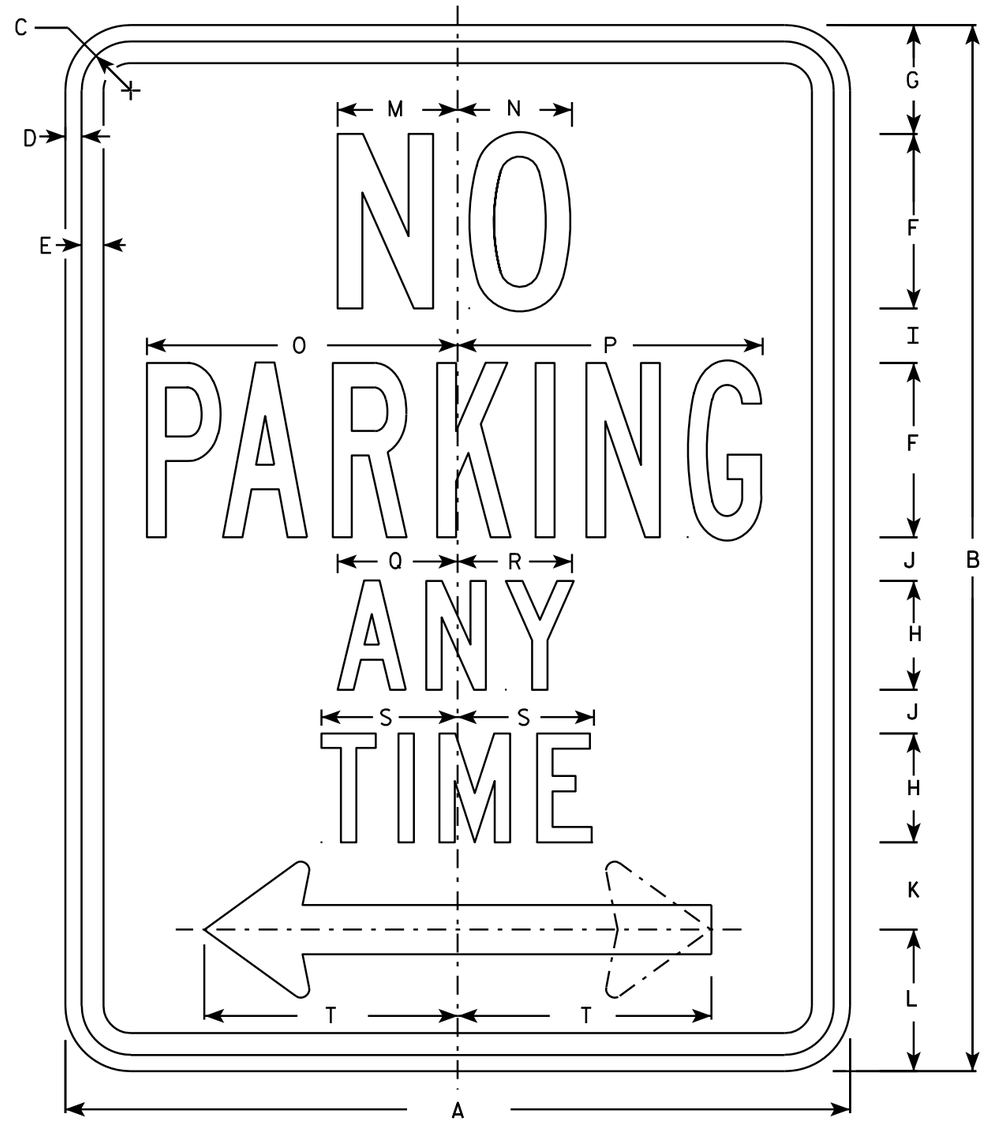
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

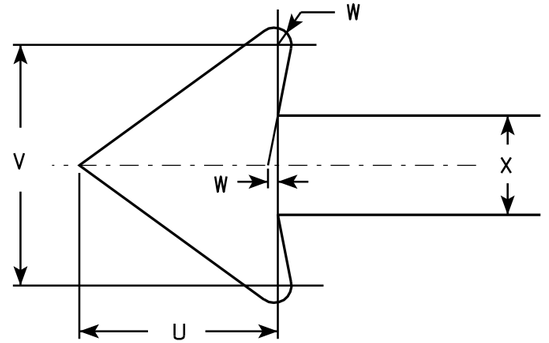
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 101 | E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

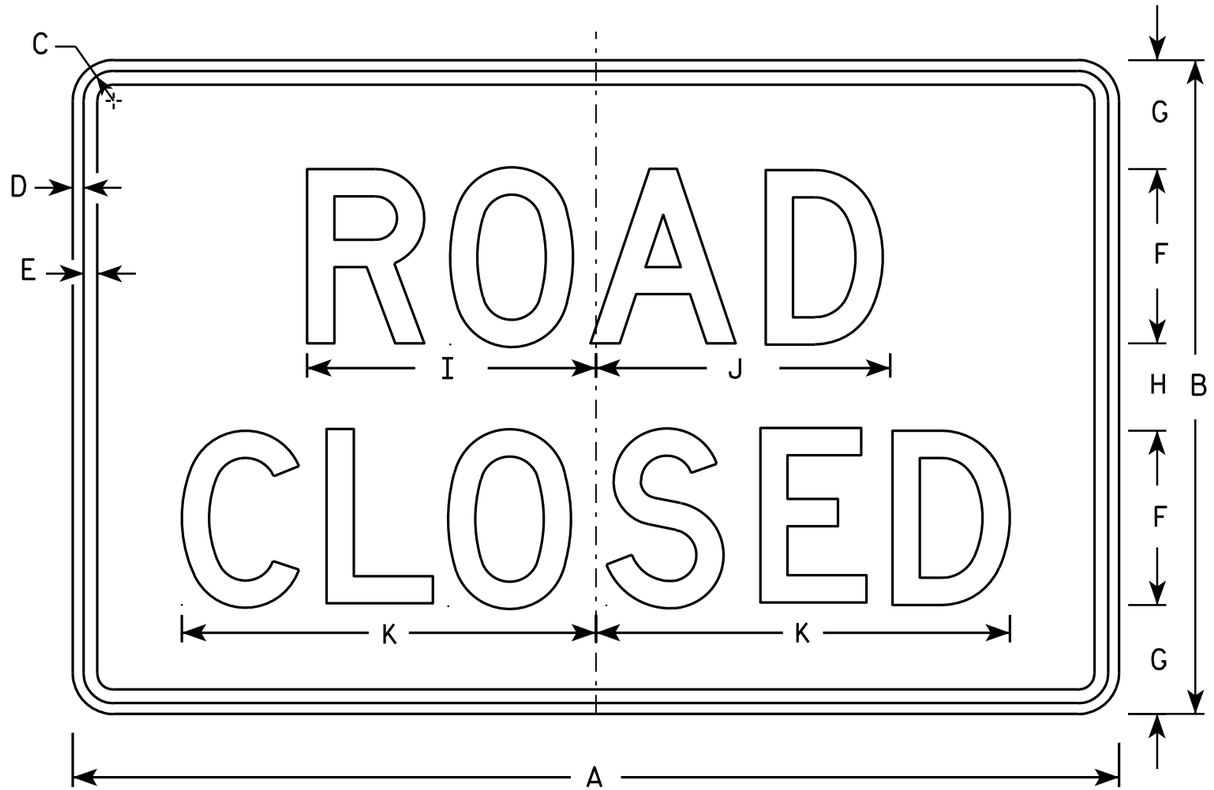
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 102	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

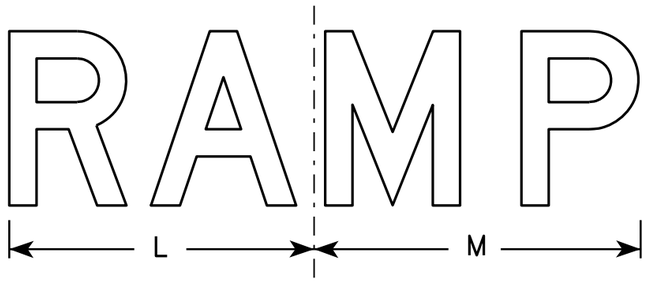
WISDOT/CADDS SHEET 42



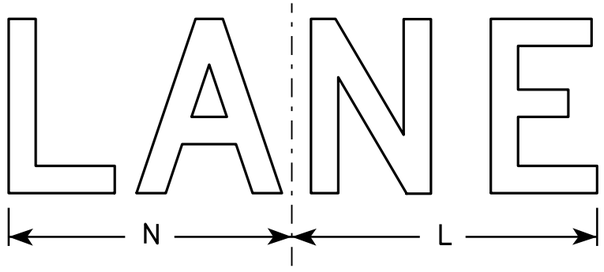
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

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	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

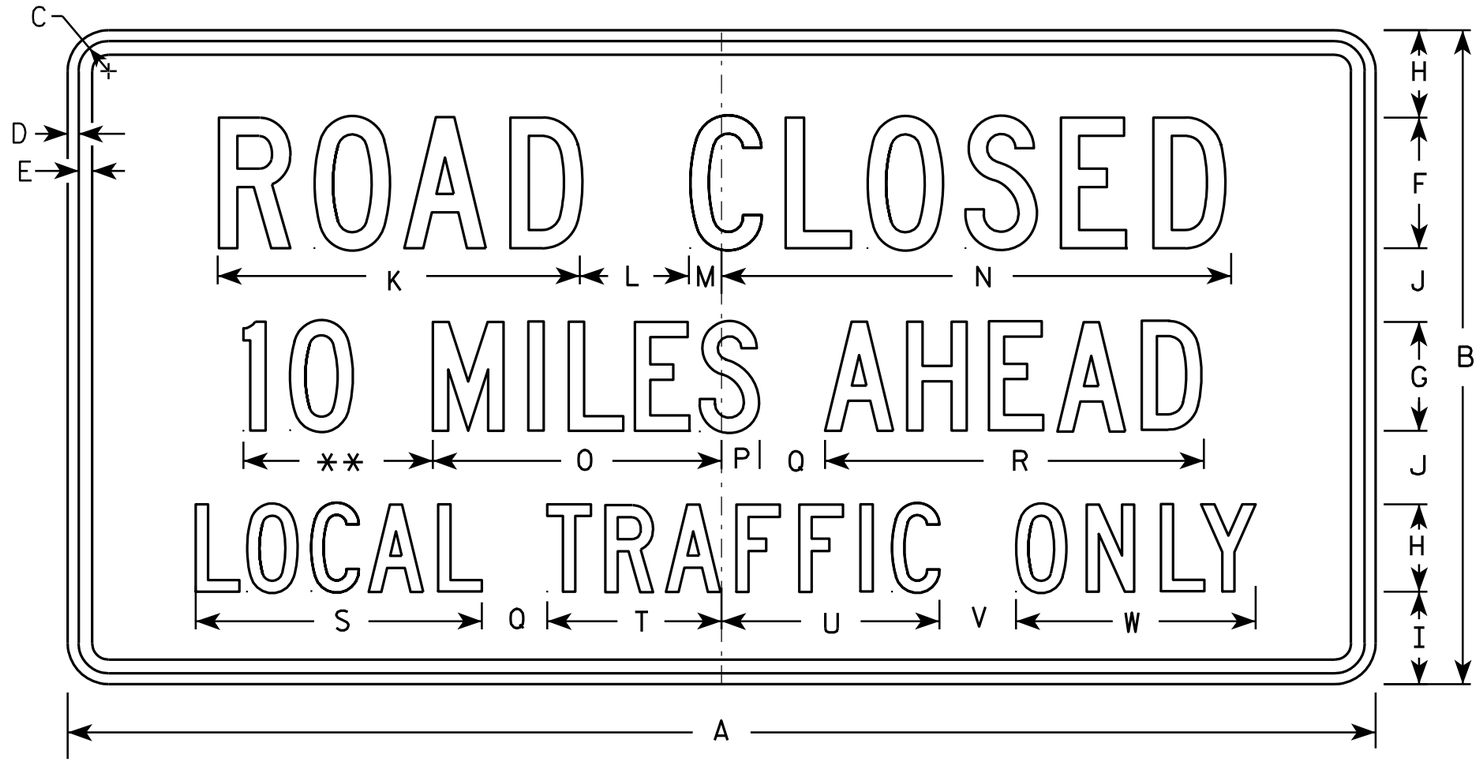
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 103 | E



R11-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - 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 and optically adjust spacing to achieve proper balance.

** 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	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

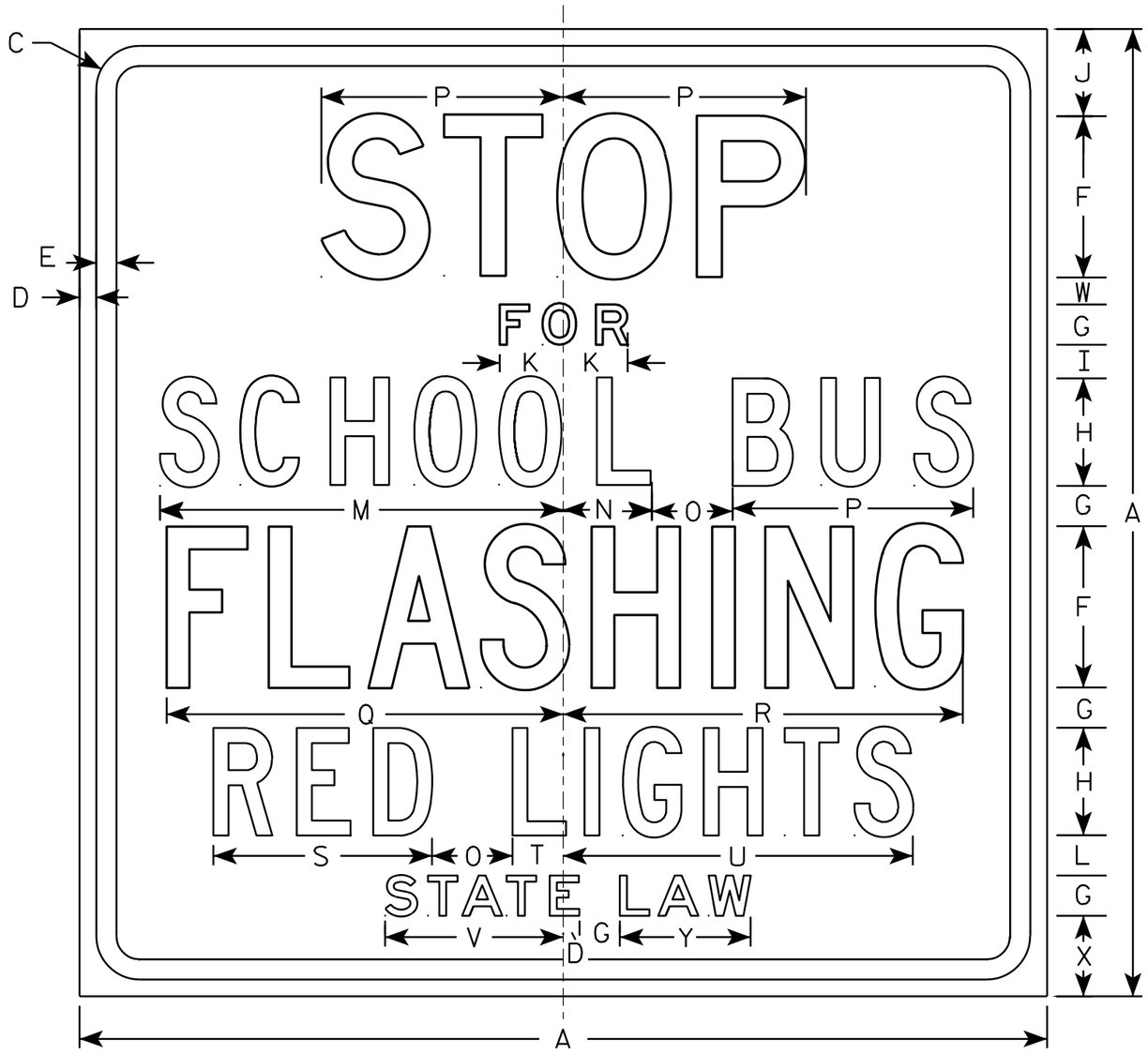
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 104 | E



R59-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - 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
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

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

STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/30/11 PLATE NO. R59-51.10

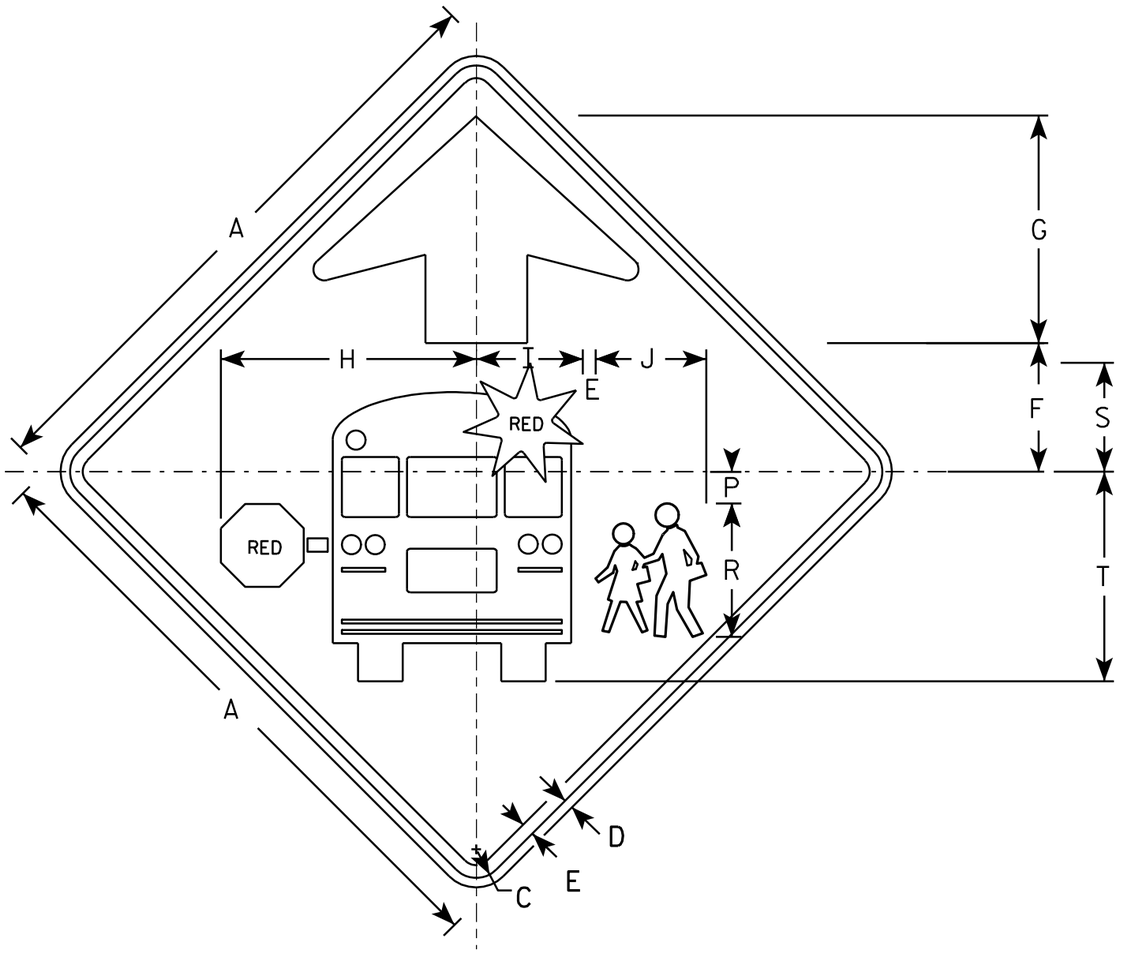
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 105 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R5951.DGN 30-MAR-2011 09:59 PLOT DATE : 30-MAR-2011 09:59 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.287650:1.000000

WISDOT/CADDS SHEET 42

7

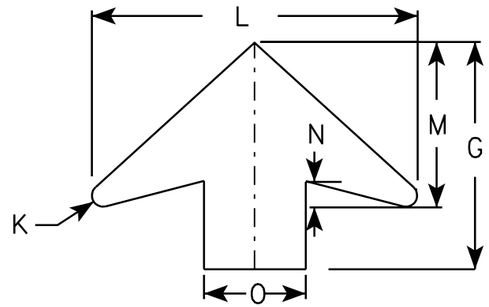
7



S3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW-GREEN
   Message - BLACK except as noted
   Circles except PEDS- RED BACKGROUND
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.



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	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN
S3-1

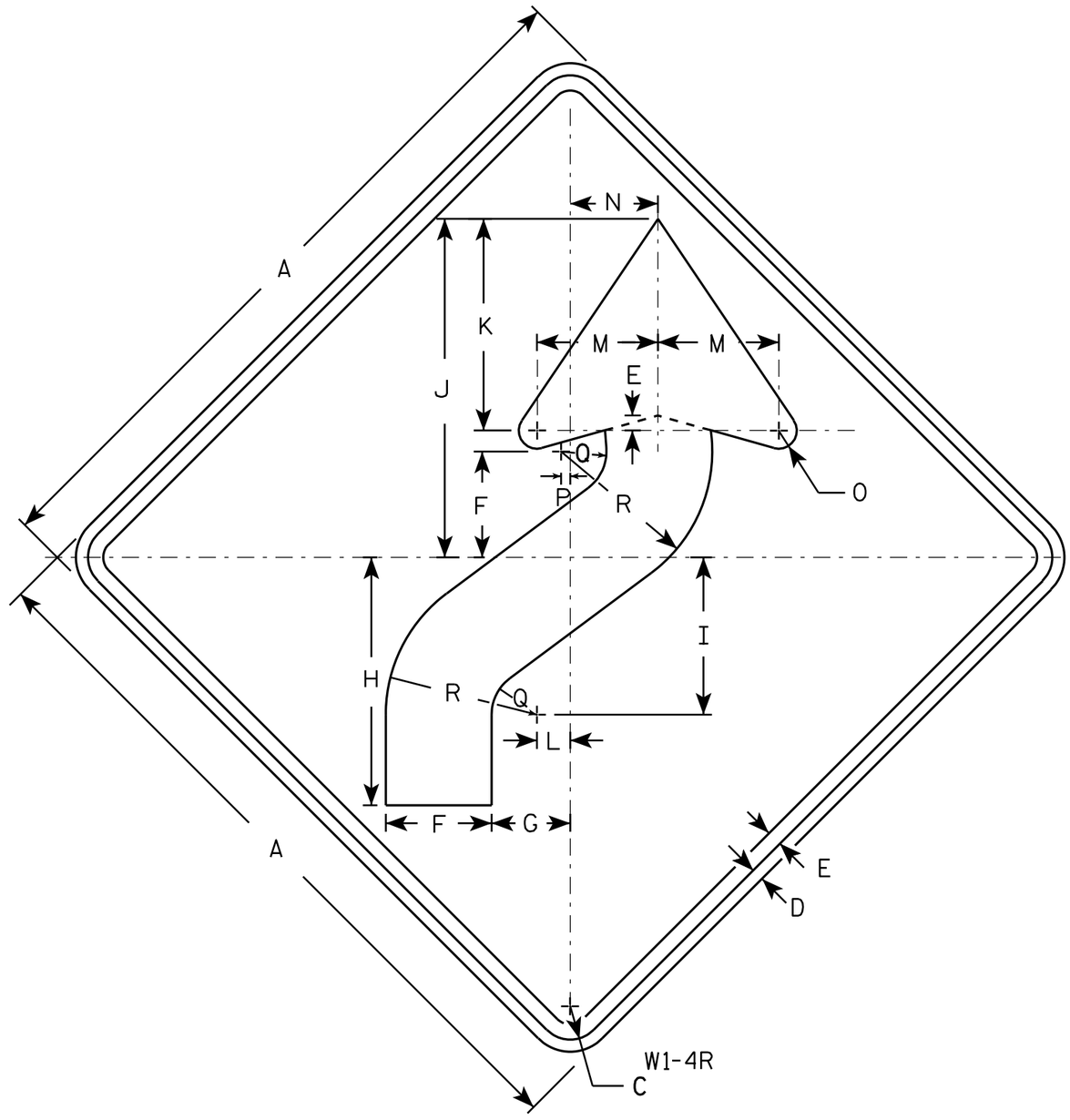
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/8/10 PLATE NO. S3-1.6

PROJECT NO:

SHEET NO: 106 E



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.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

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		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

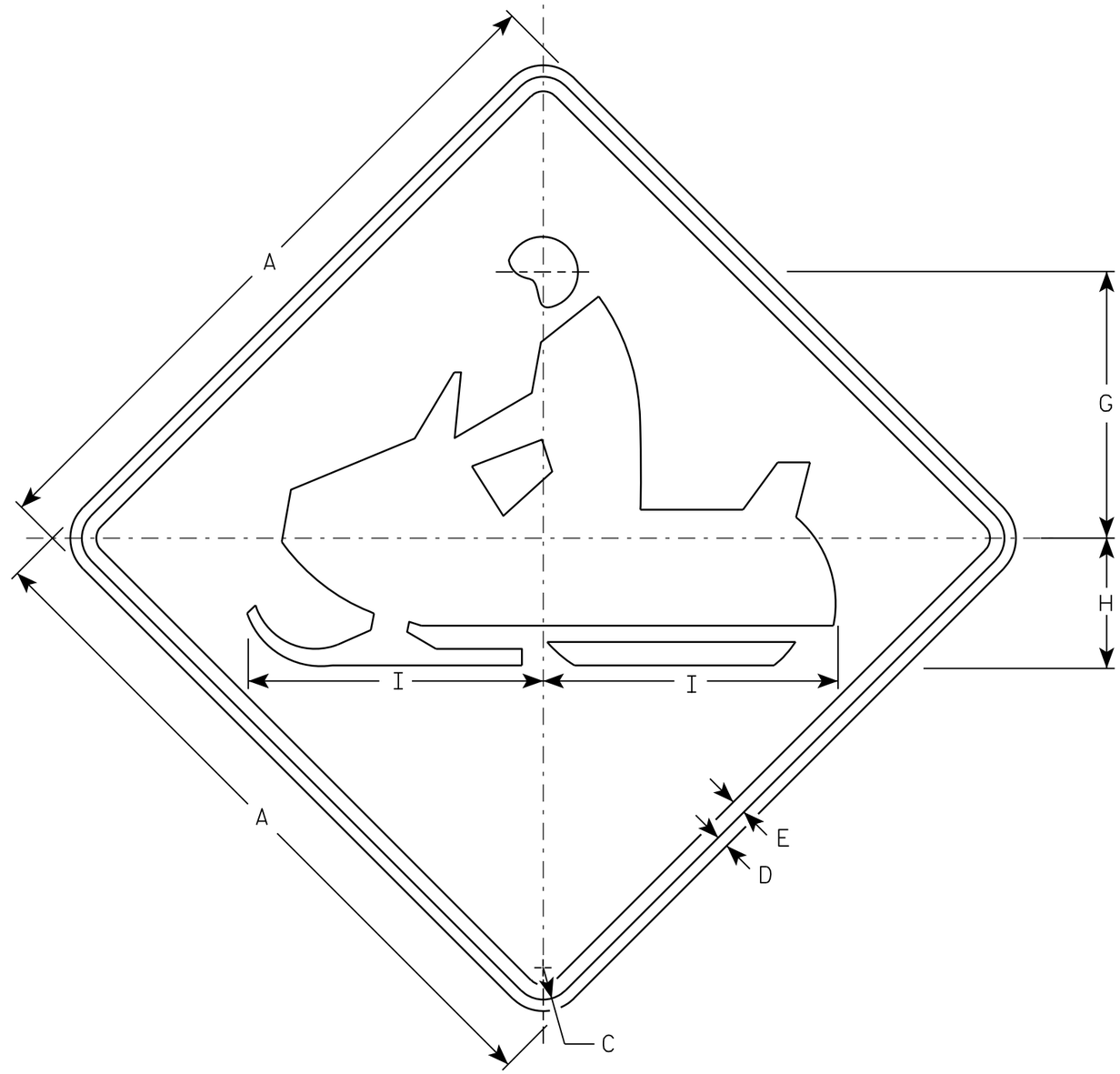
STANDARD SIGN
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 107 | E



W11-6

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	24		1 1/8	3/8	1/2		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

STANDARD SIGN
W11-6

WISCONSIN DEPT OF TRANSPORTATION

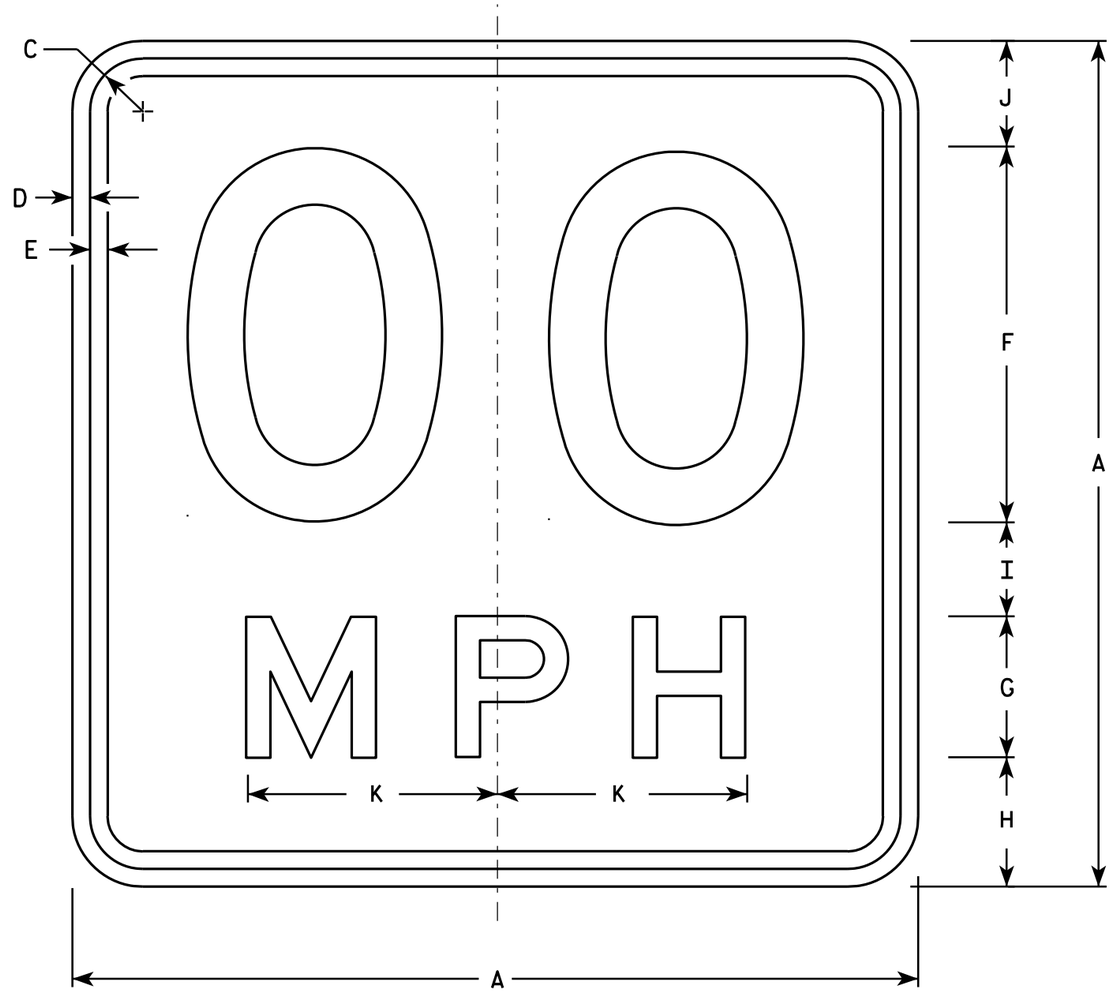
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-6.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 108	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W116.DGN PLOT DATE : 13-MAR-2013 12:57 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.954276:1.000000

WISDOT/CADDS SHEET 42



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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. Message Series - See Note 6
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 and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	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	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

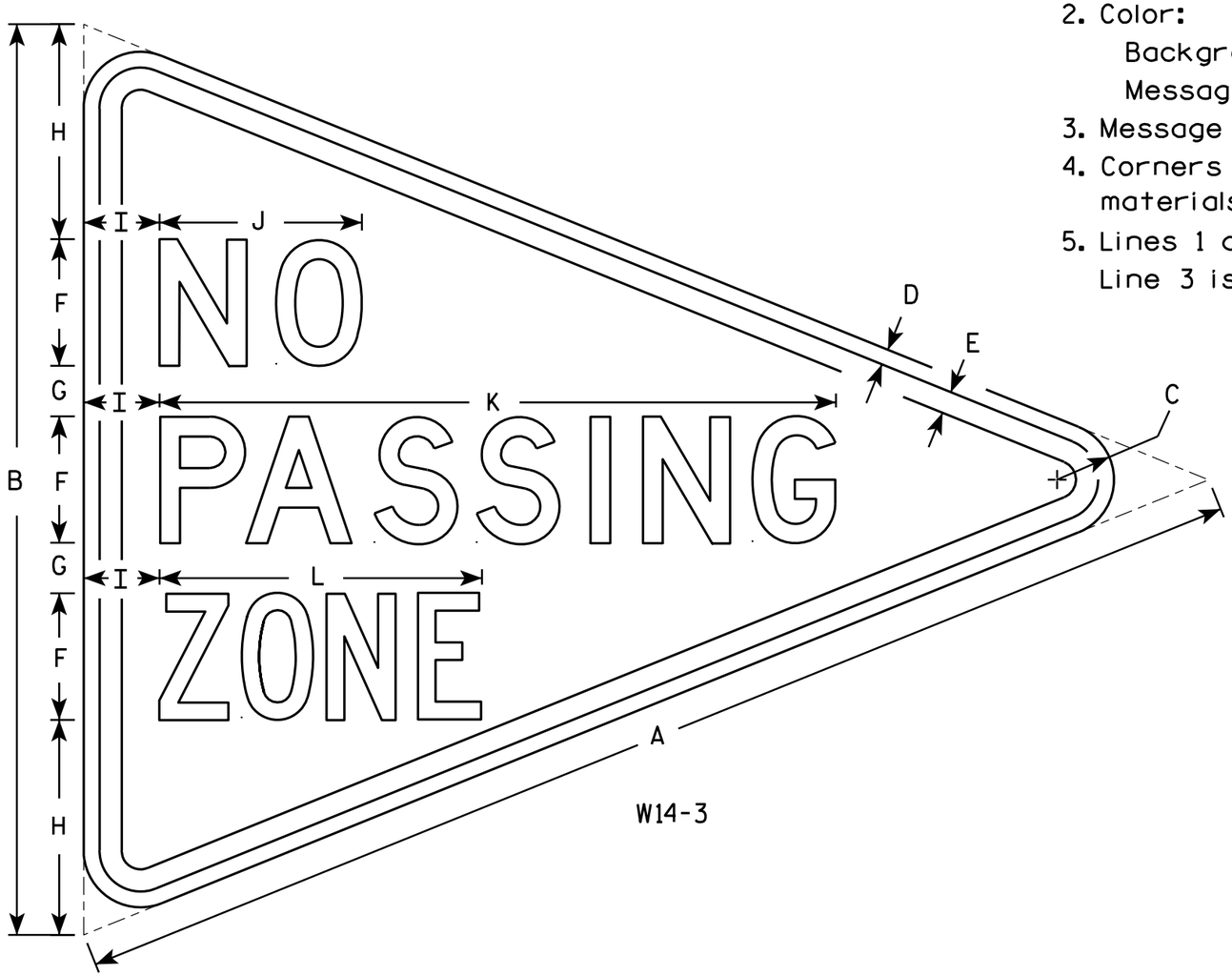
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 109 | E

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. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

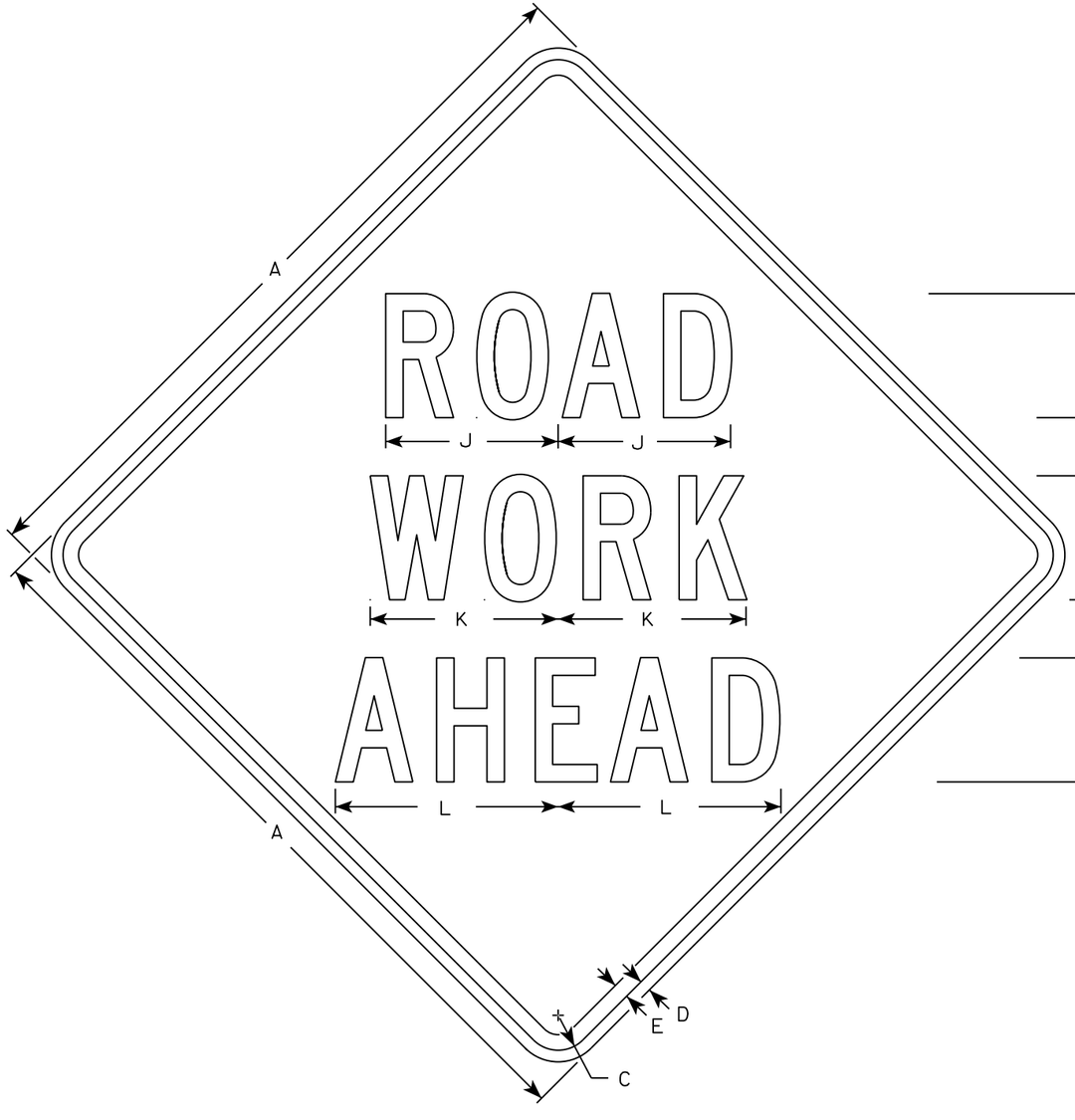
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

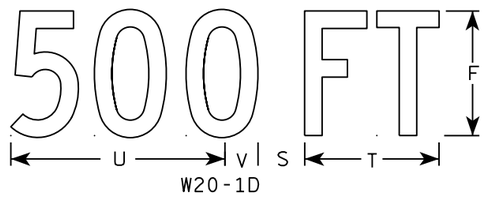
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

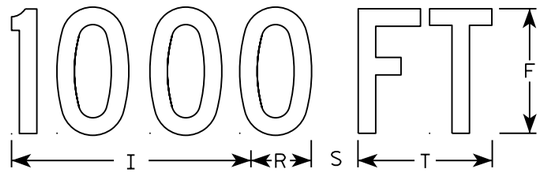
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 110	E



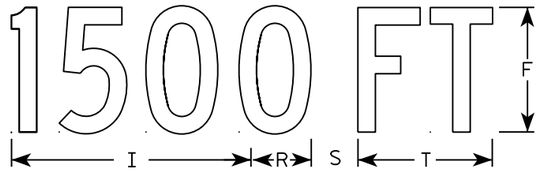
W20-1A



W20-1D

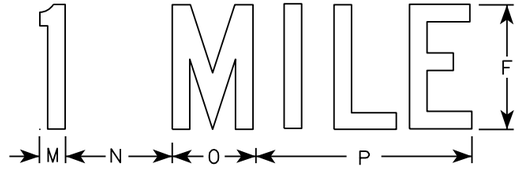


W20-1C

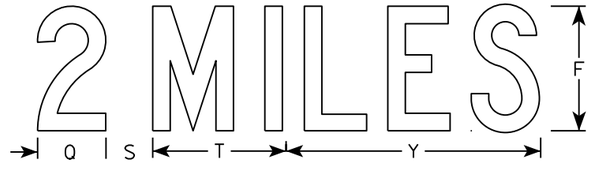


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   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.

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		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

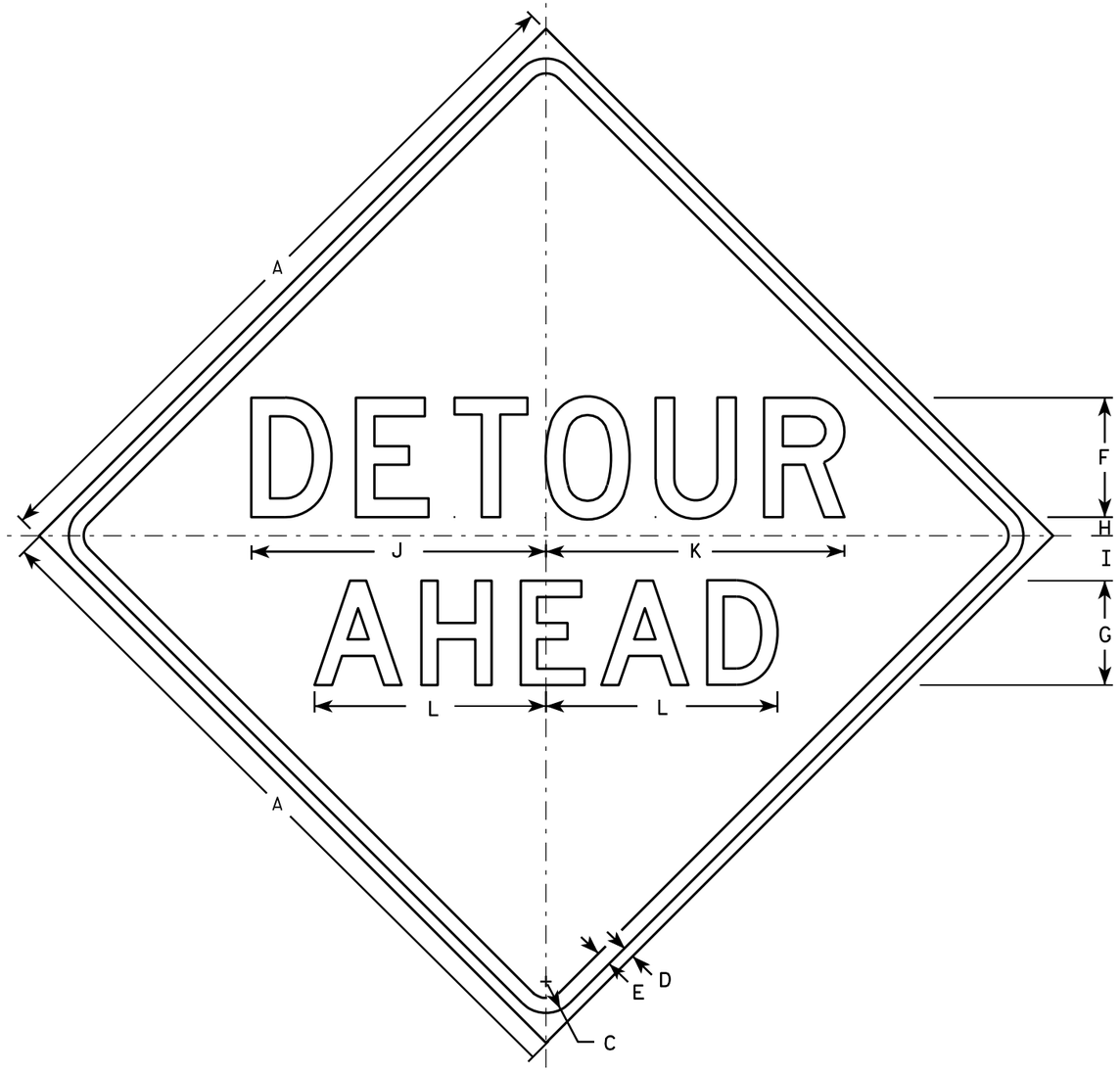
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

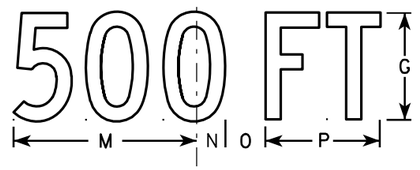
PROJECT NO:

SHEET NO: E

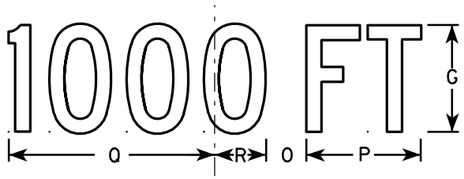
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



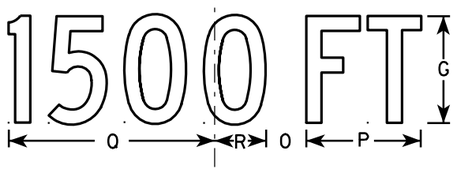
W20-2A



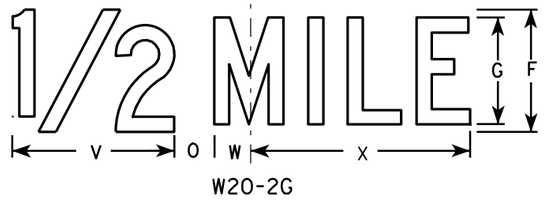
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. 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	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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

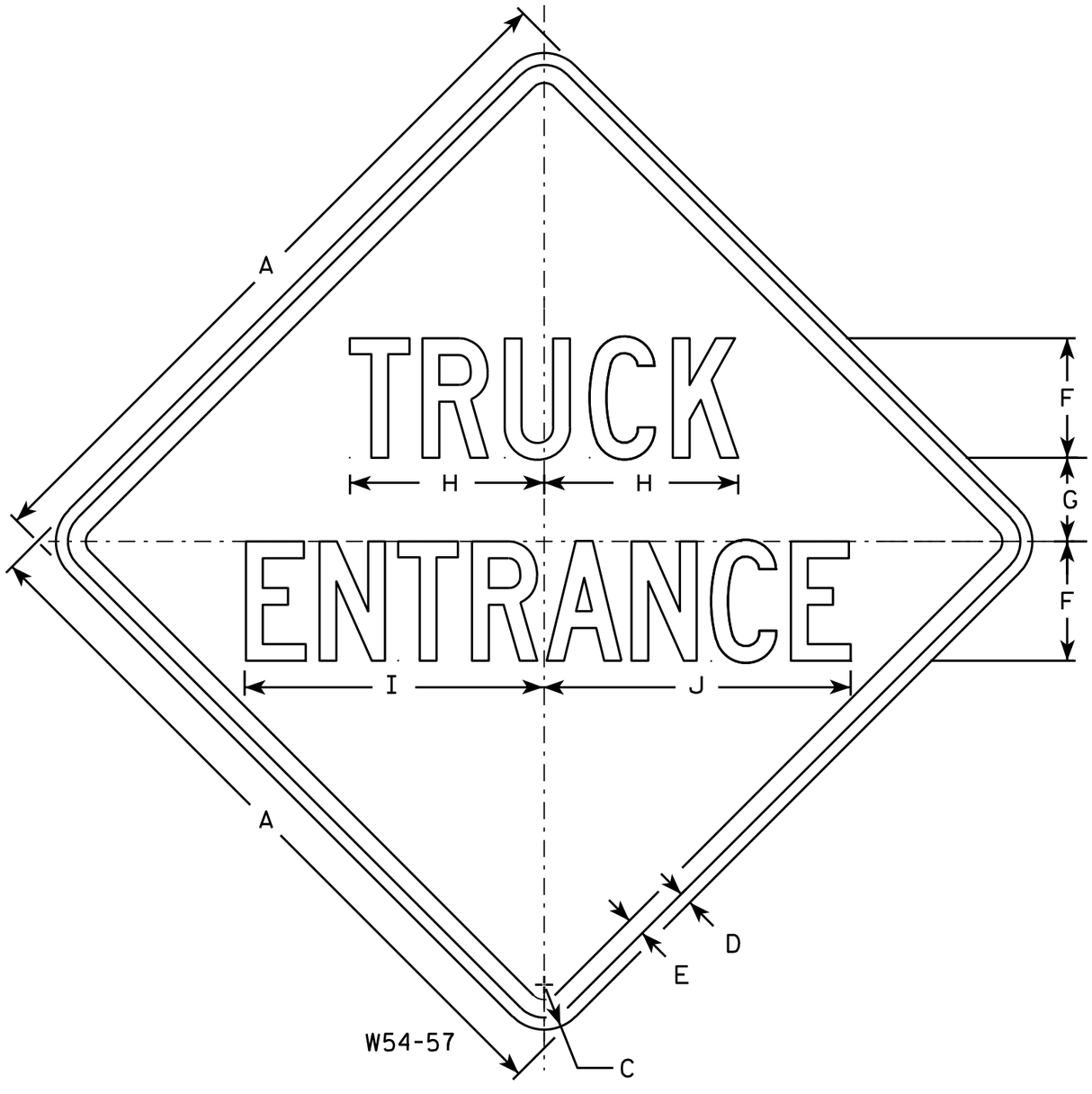
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 112 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



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. 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.

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		1 3/8	1/2	5/8	5	3 1/2	8 1/8	12 1/2	12 7/8																	6.25
2M	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
3	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
4																											
5																											

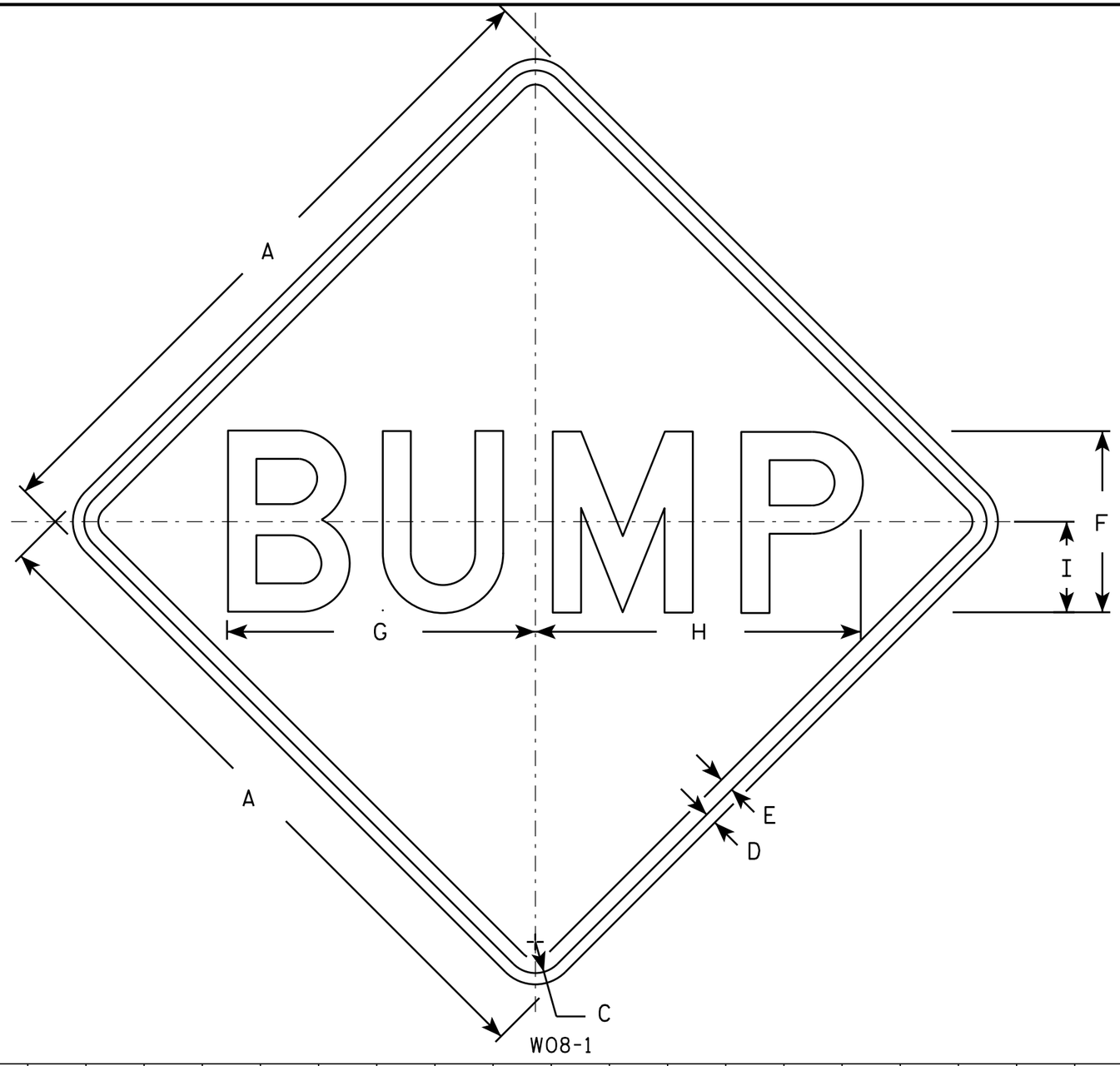
STANDARD SIGN
W54-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W54-57.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 113	E



NOTES

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

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		1 5/8	5/8	3/4	10	16 7/8	17 7/8	5																		9.0
2S	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
2M	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
3	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
4	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
5	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0

STANDARD SIGN
W08-1

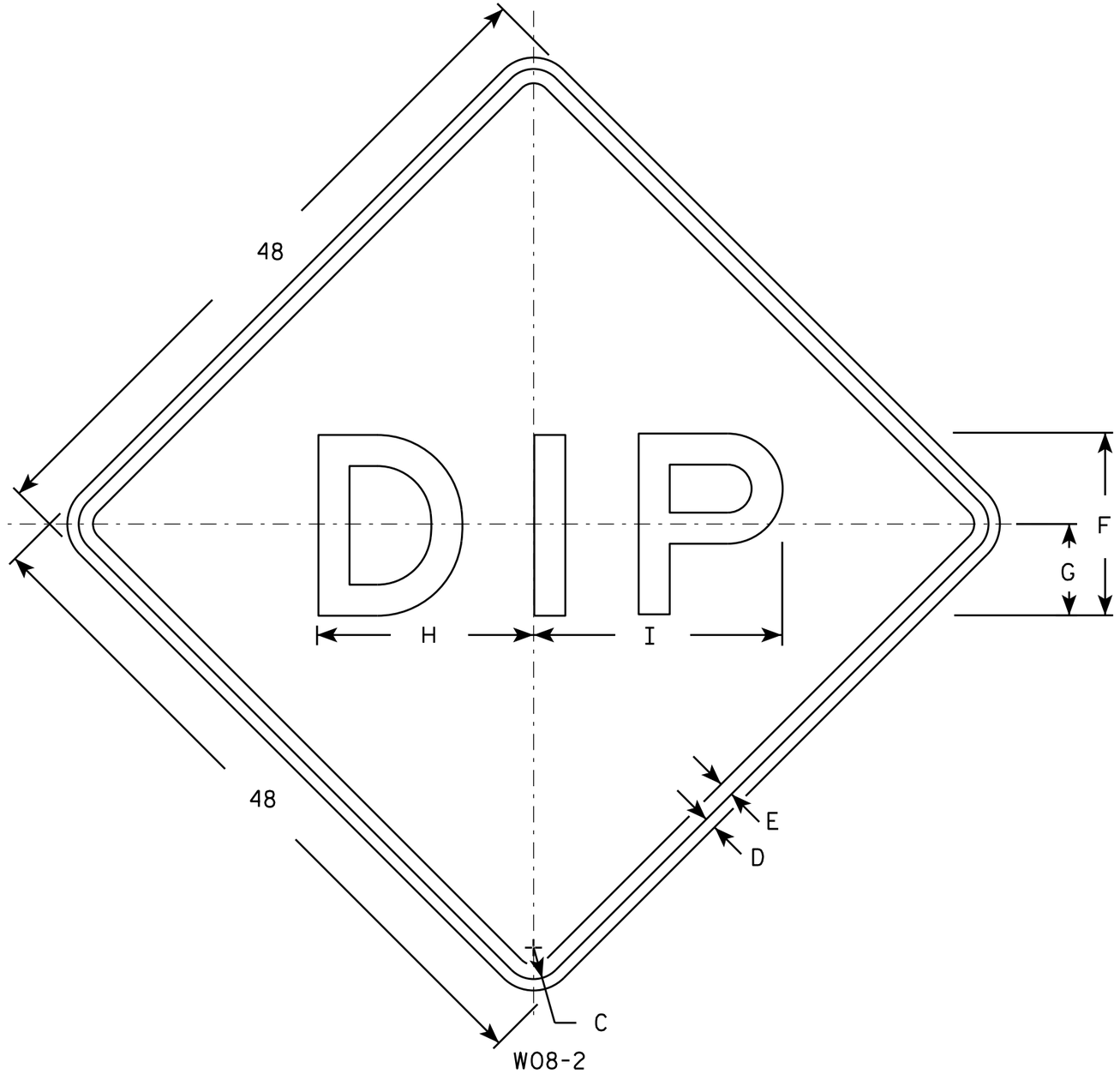
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 114 W08-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W081.DGN PLOT DATE : 20-NOV-2013 12:24 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.688833:1.000000 WISDOT/CADDS SHEET 42



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. Message Series - E
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	36		1 5/8	5/8	3/4	10	5	11 7/8	13 1/2																		9.0
2S	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
2M	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
3	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
4	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
5	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0

STANDARD SIGN
W08-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 115 8-2.1

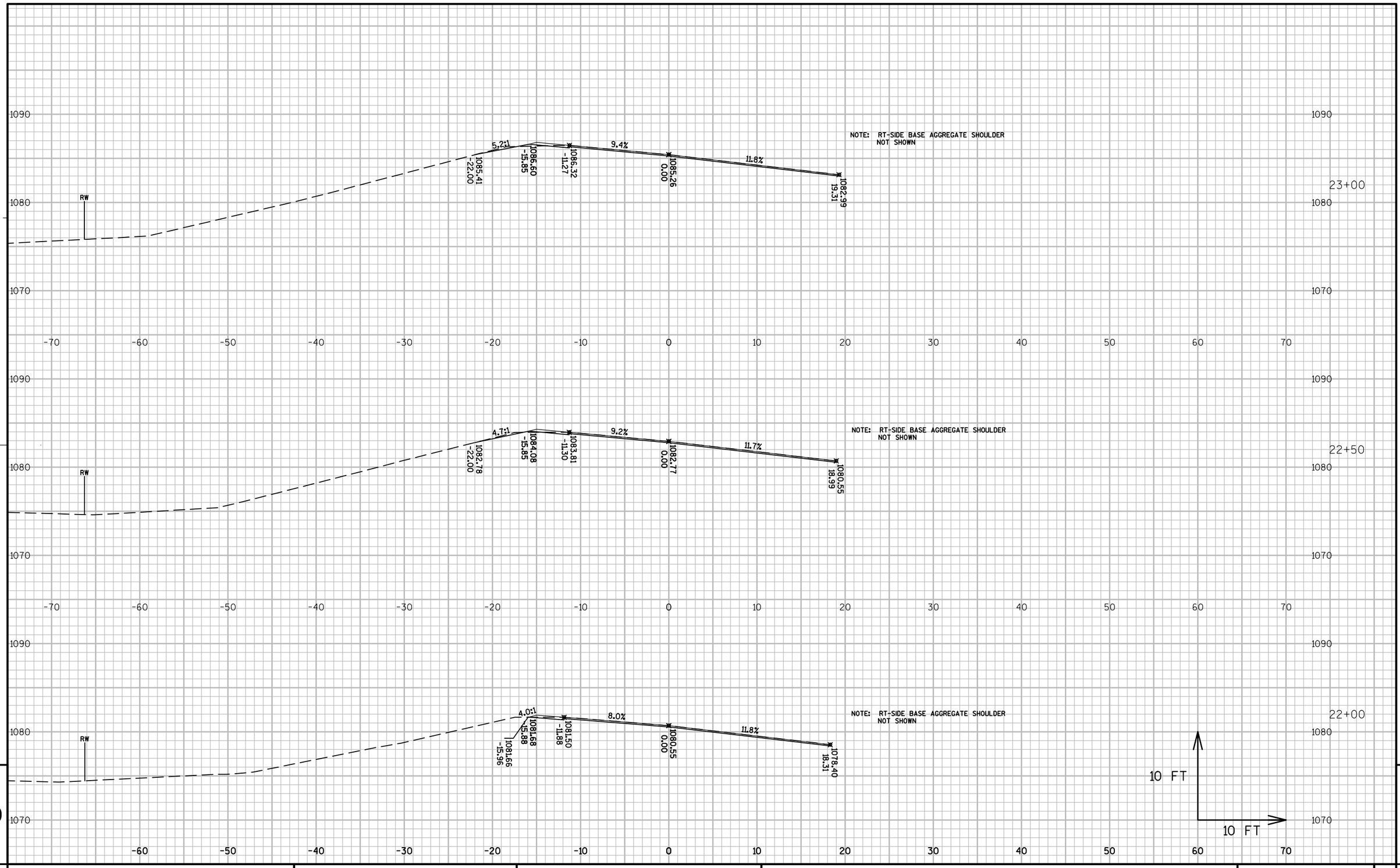
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W082.DGN PLOT DATE : 20-NOV-2013 13:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.827959:1.000000

WISDOT/CADDS SHEET 42

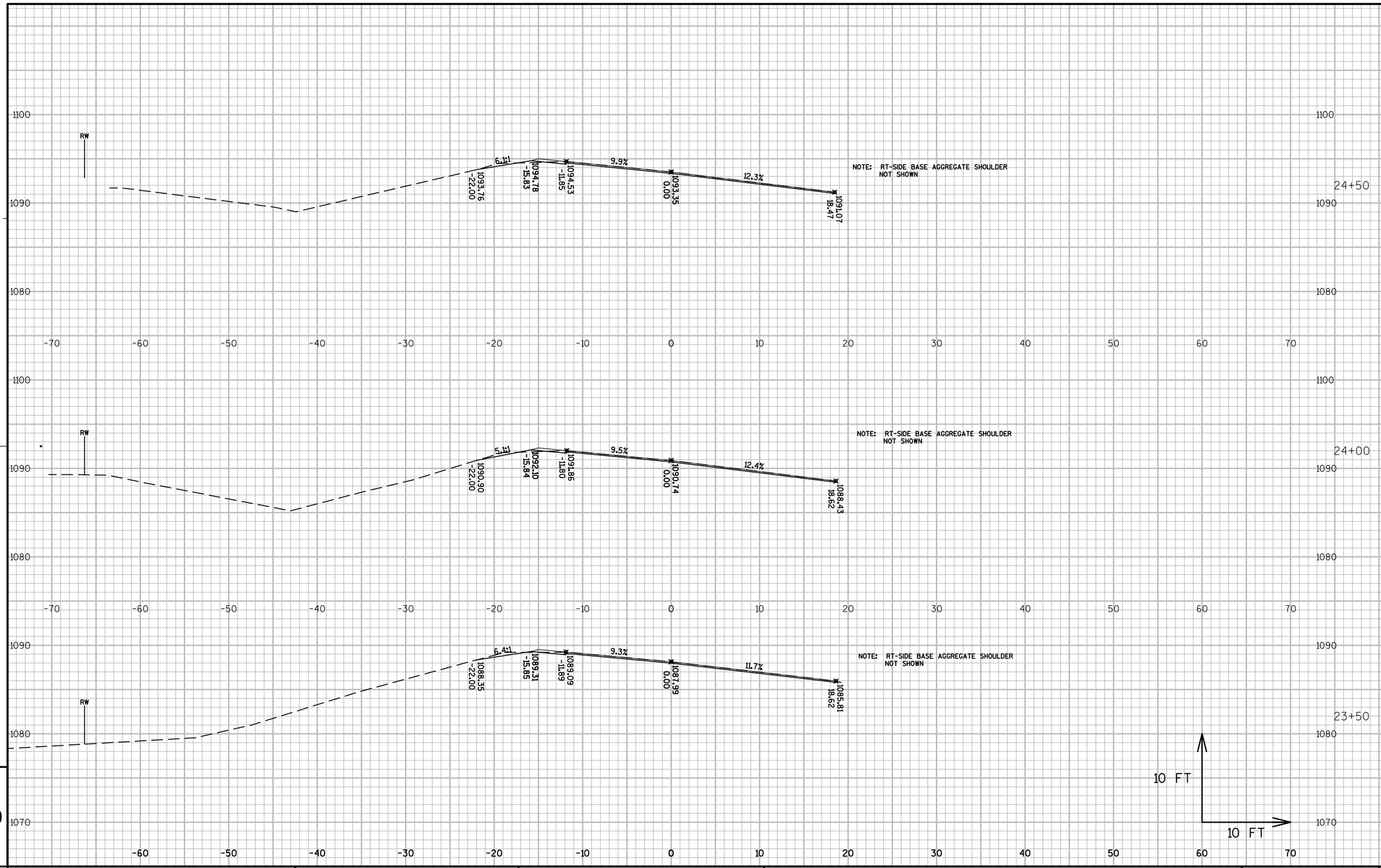
7

7



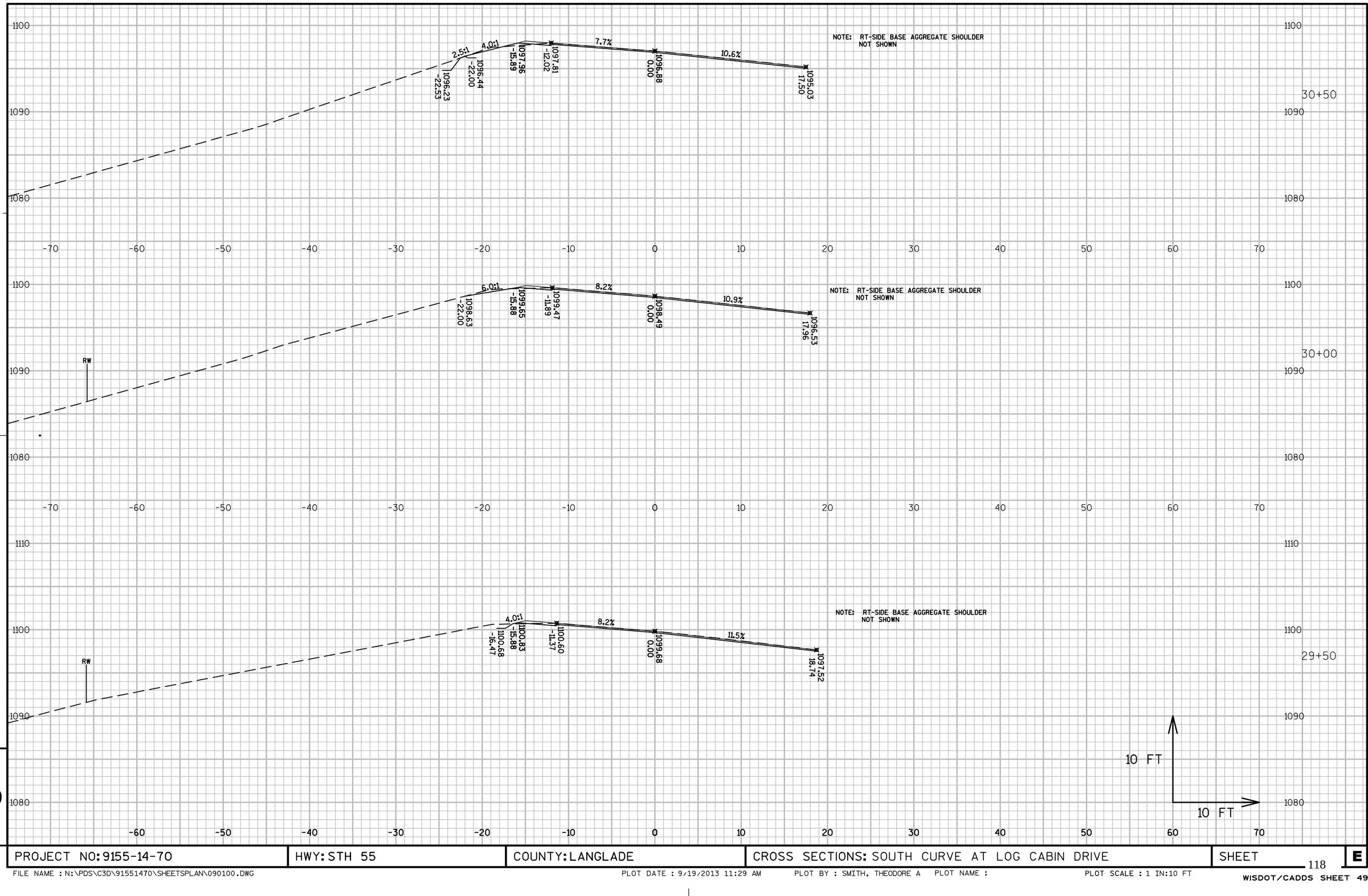
PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: SOUTH CURVE AT LOG CABIN DRIVE	SHEET	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\090100.DWG PLOT DATE : 9/19/2013 11:29 AM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1 IN:10 FT



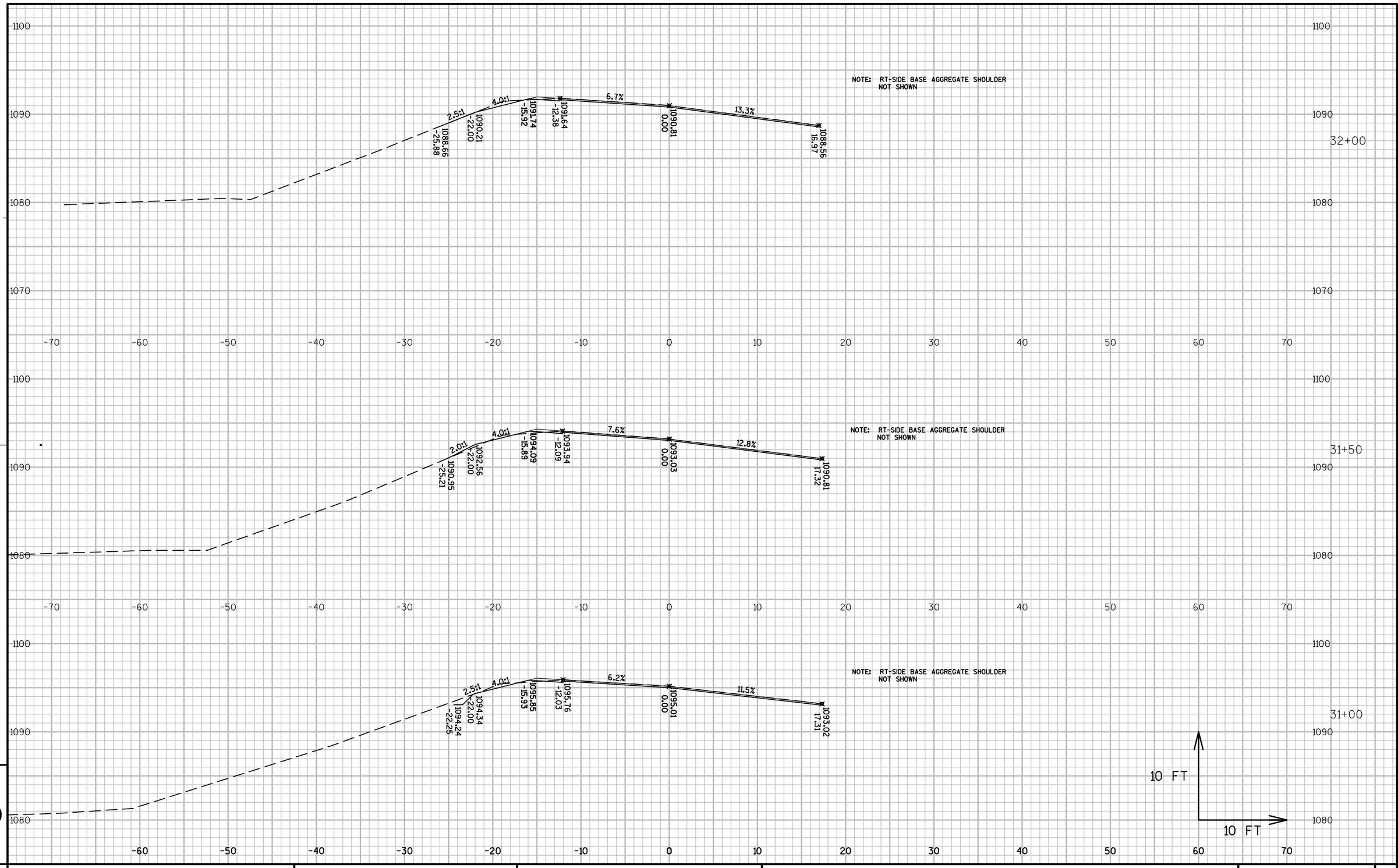
PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: SOUTH CURVE AT LOG CABIN DRIVE	SHEET	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\090100.DWG PLOT DATE : 9/19/2013 11:29 AM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



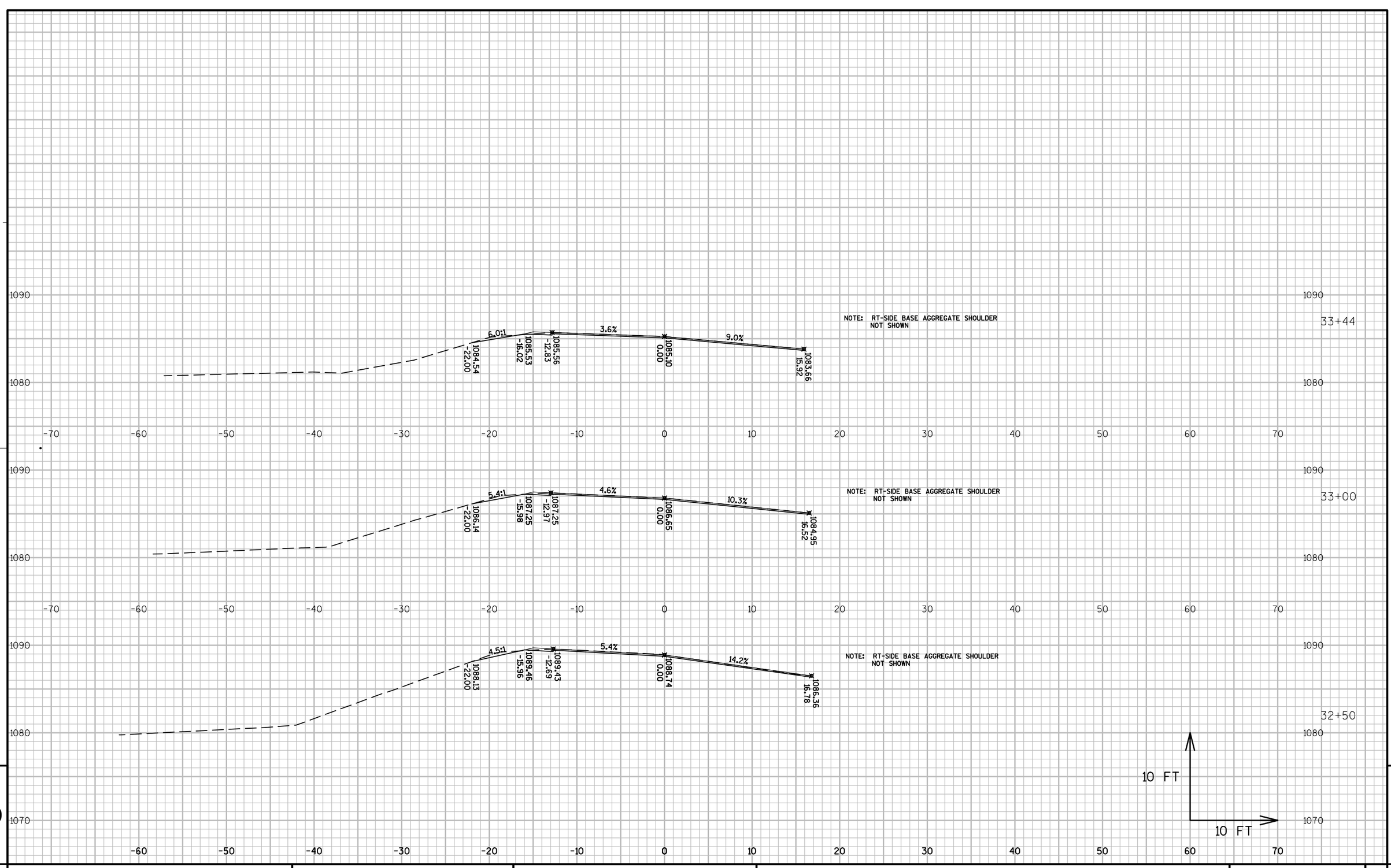
PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: SOUTH CURVE AT LOG CABIN DRIVE	SHEET	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\090100.DWG PLOT DATE : 9/19/2013 11:29 AM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: SOUTH CURVE AT LOG CABIN DRIVE	SHEET	E

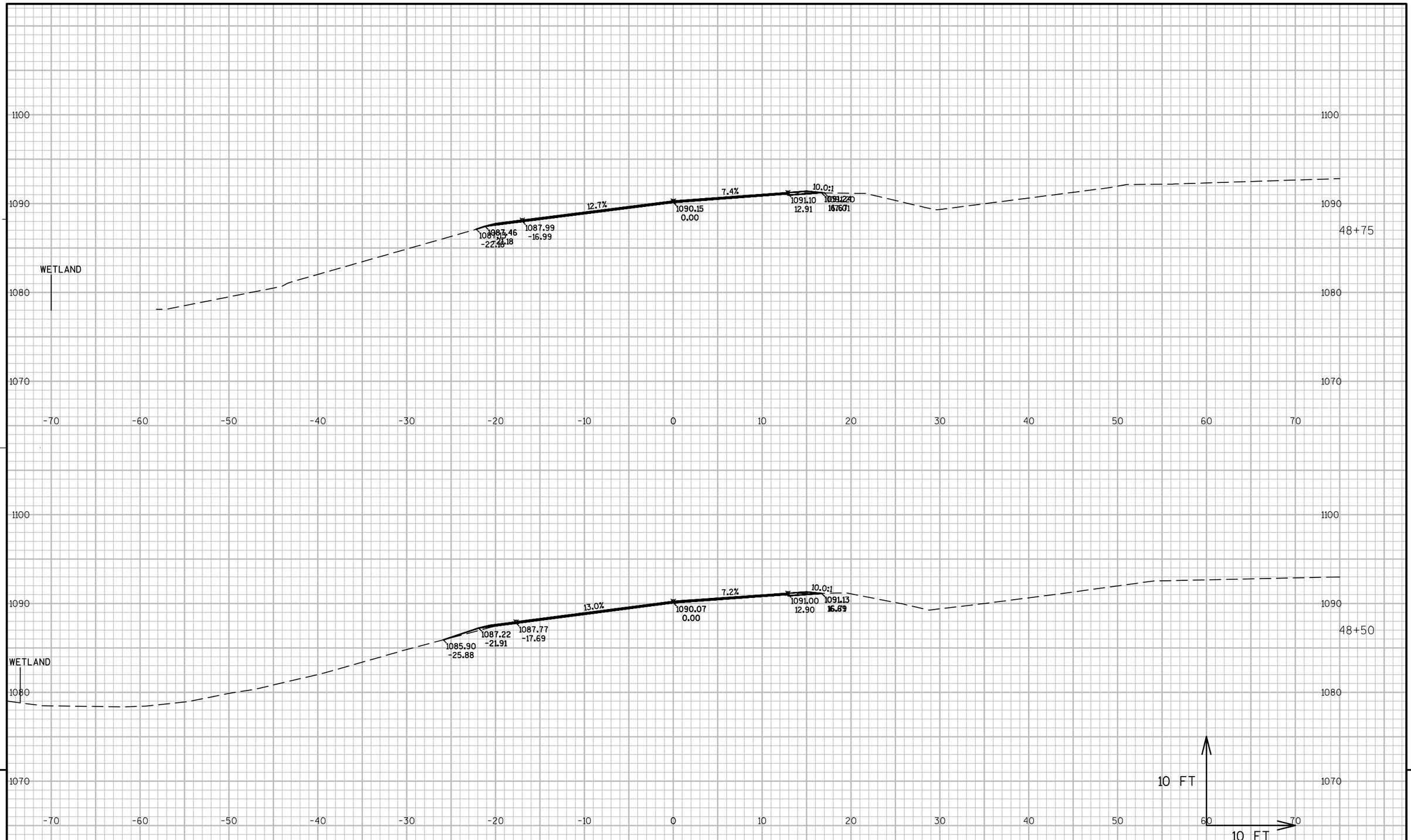
FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\090100.DWG PLOT DATE : 9/19/2013 11:29 AM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: SOUTH CURVE AT LOG CABIN DRIVE	SHEET	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\090100.DWG PLOT DATE : 9/19/2013 11:29 AM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

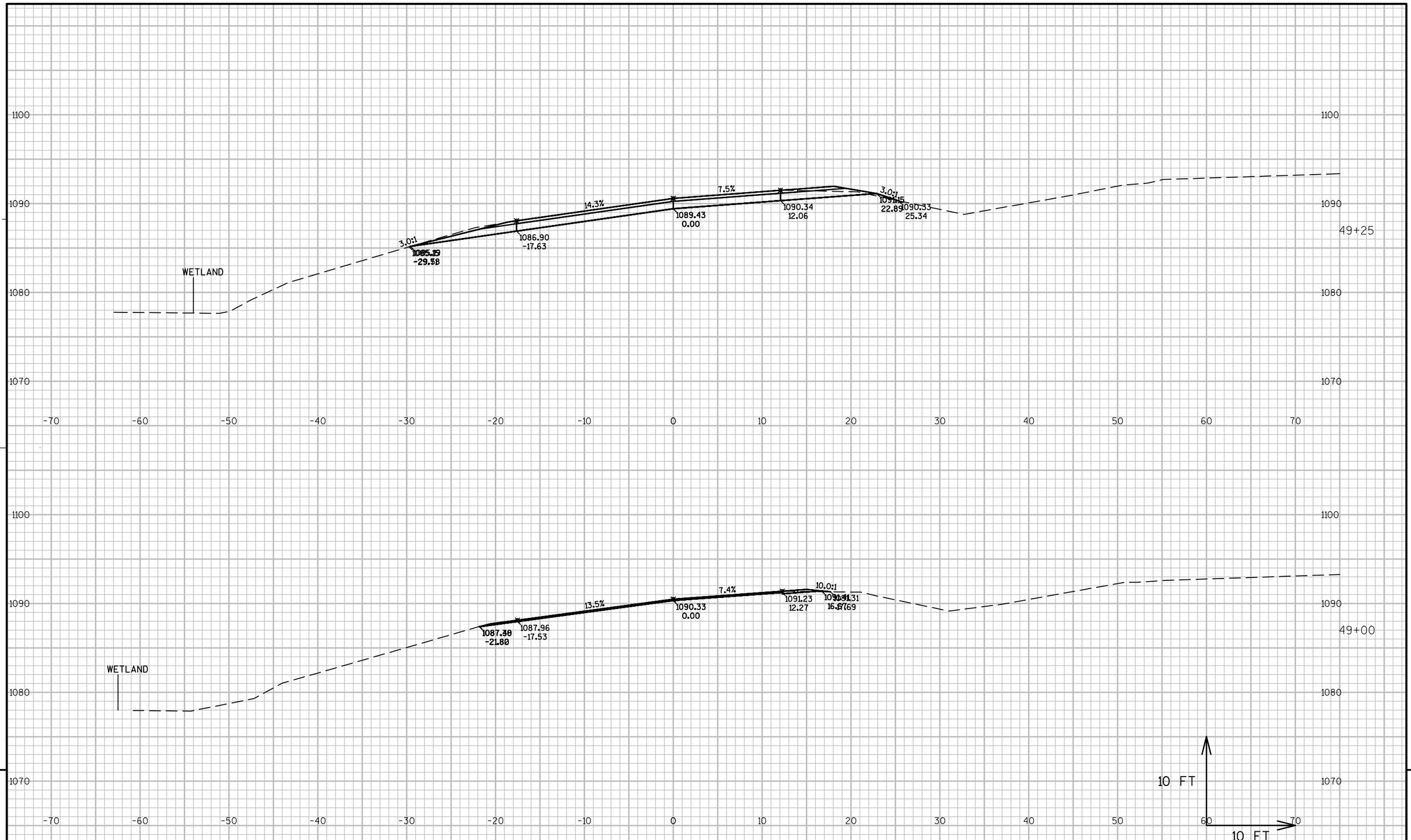
9

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: CULVERT 34-055-004	SHEET 121	E

FILE NAME : N:\PDS\C3D\91551470\DESIGN\CORRIDORS\XS-CULV-34055004.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 4/9/2015 4:12 PM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



9

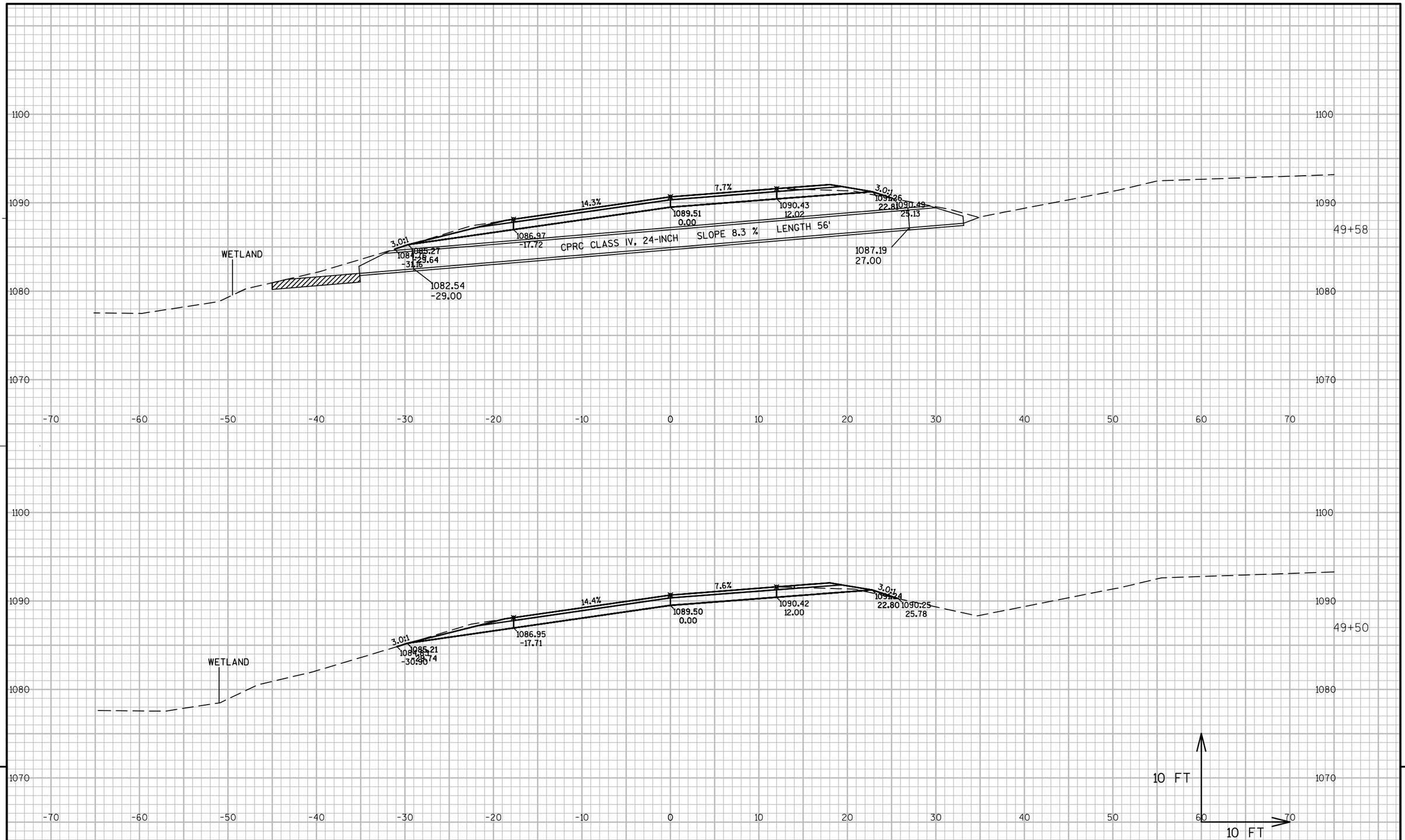
PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: CULVERT 34-055-004	SHEET 122	E

9

FILE NAME : N:\PDS\C3D\91551470\DESIGN\CORRIDORS\XS-CULV-34055004.DWG
LAYOUT NAME - SECTION SHEET - (2)

PLOT DATE : 4/9/2015 4:13 PM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1:10_XREF

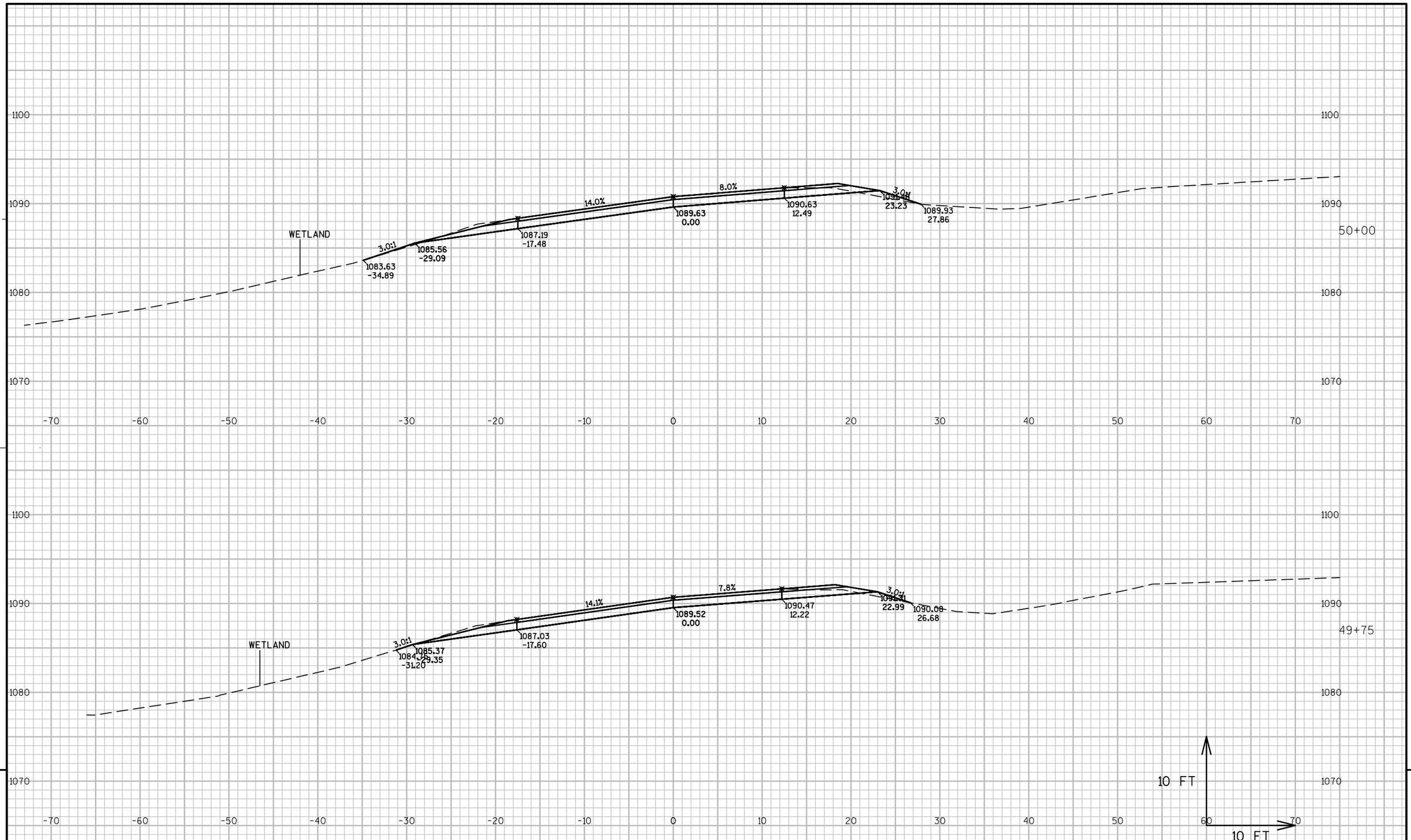
WISDOT/CADDS SHEET 49



PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: CULVERT 34-055-004	SHEET 123	E

FILE NAME : N:\PDS\C3D\91551470\DESIGN\CORRIDORS\XS-CULV-34055004.DWG
LAYOUT NAME - SECTION SHEET - (3)

PLOT DATE : 4/9/2015 4:14 PM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1:10_XREF



9

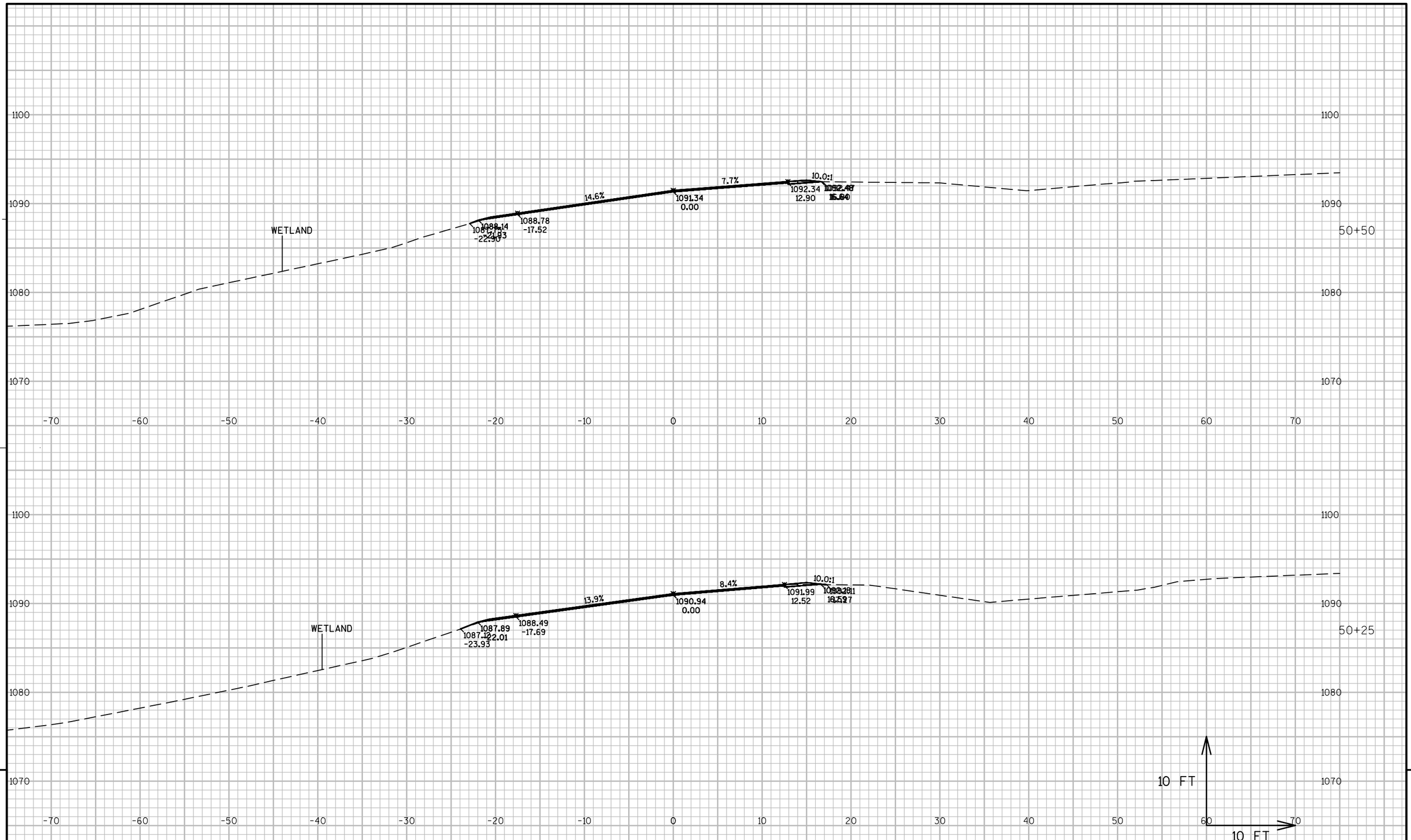
9

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: CULVERT 34-055-004	SHEET 124	E

FILE NAME : N:\PDS\C3D\91551470\DESIGN\CORRIDORS\XS-CULV-34055004.DWG
LAYOUT NAME - SECTION SHEET - (4)

PLOT DATE : 4/9/2015 4:14 PM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



9

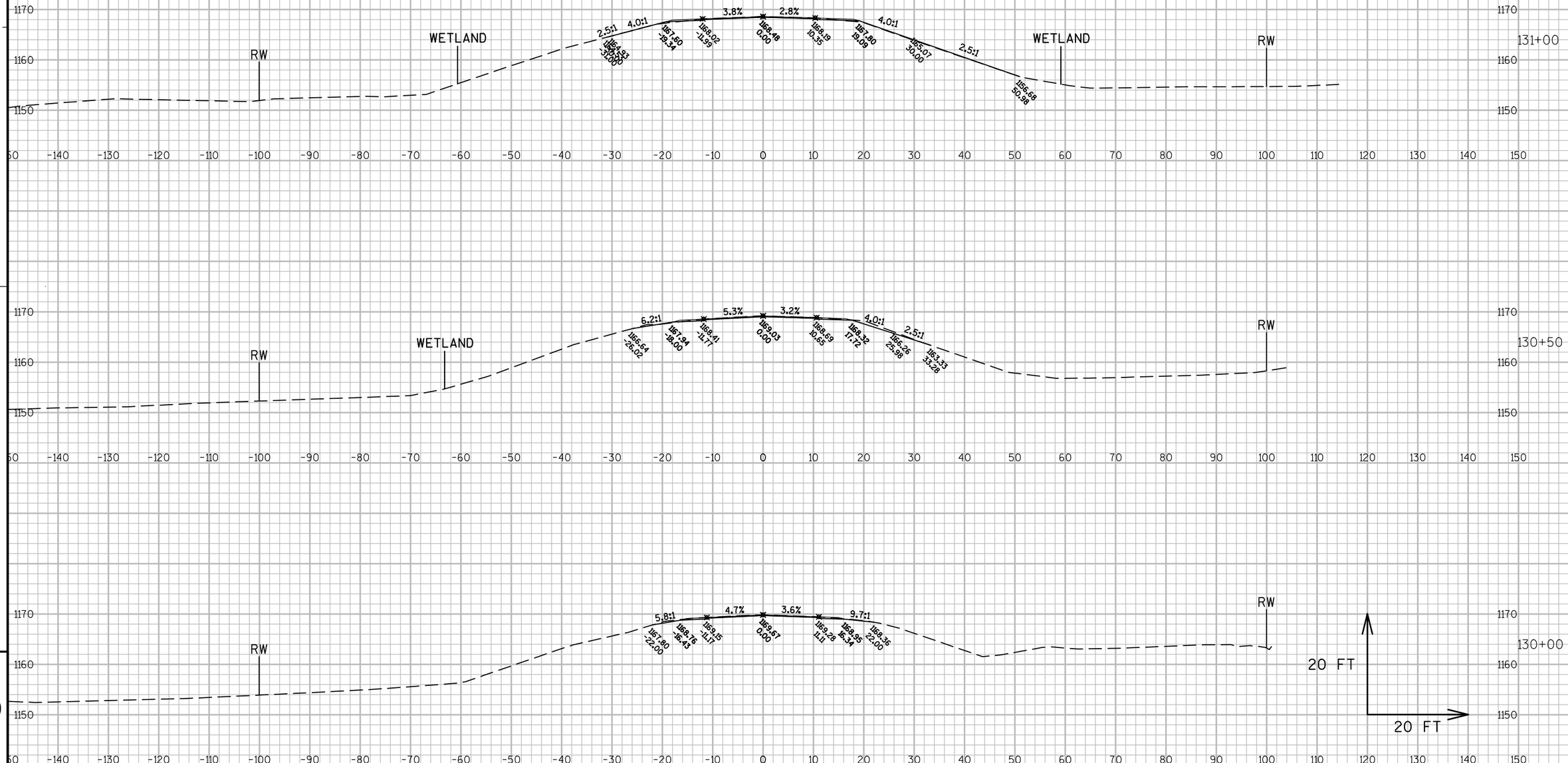
9

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: CULVERT 34-055-004	SHEET 125	E

FILE NAME : N:\PDS\C3D\91551470\DESIGN\CORRIDORS\XS-CULV-34055004.DWG
LAYOUT NAME - SECTION SHEET - (5)

PLOT DATE : 4/9/2015 4:14 PM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



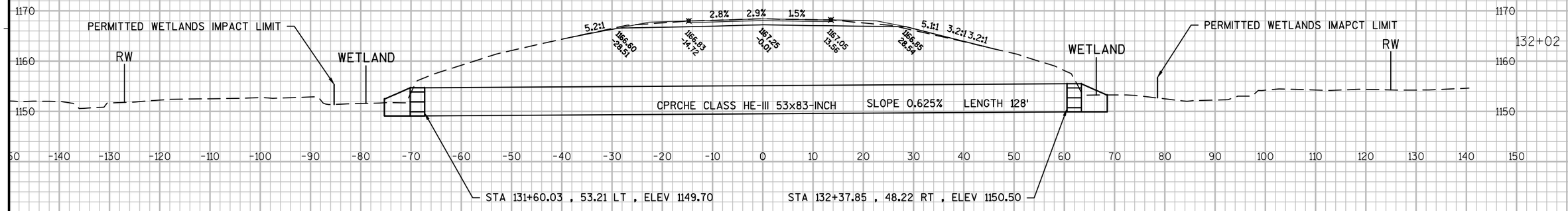
PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: CULVERT C-34-11	SHEET 126	E

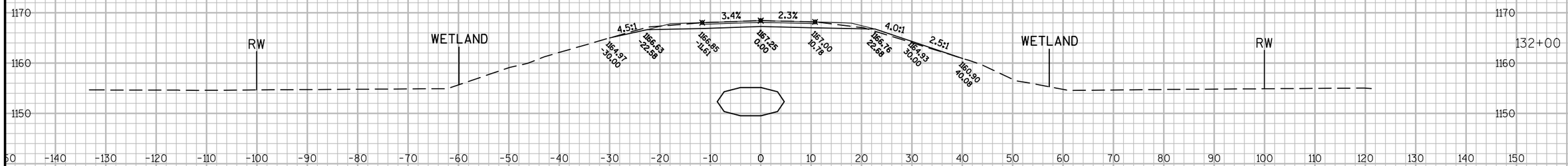
FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - 90101 - (1)

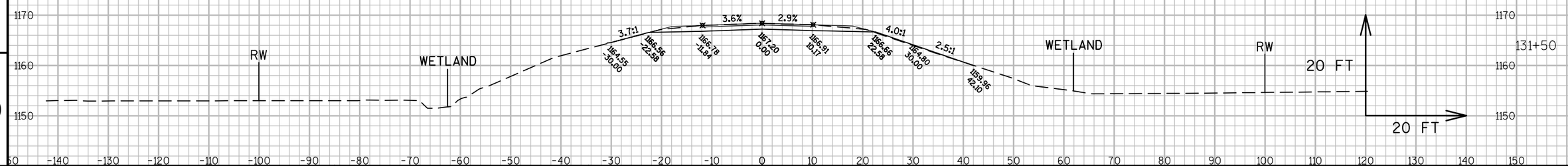
PLOT DATE : 2/10/2016 7:37 AM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

THIS CROSS SECTION CUT ALONG CENTERLINE OF PIPE.
PIPE IS SKEWED TO ROADWAY CENTERLINE ALIGNMENT.







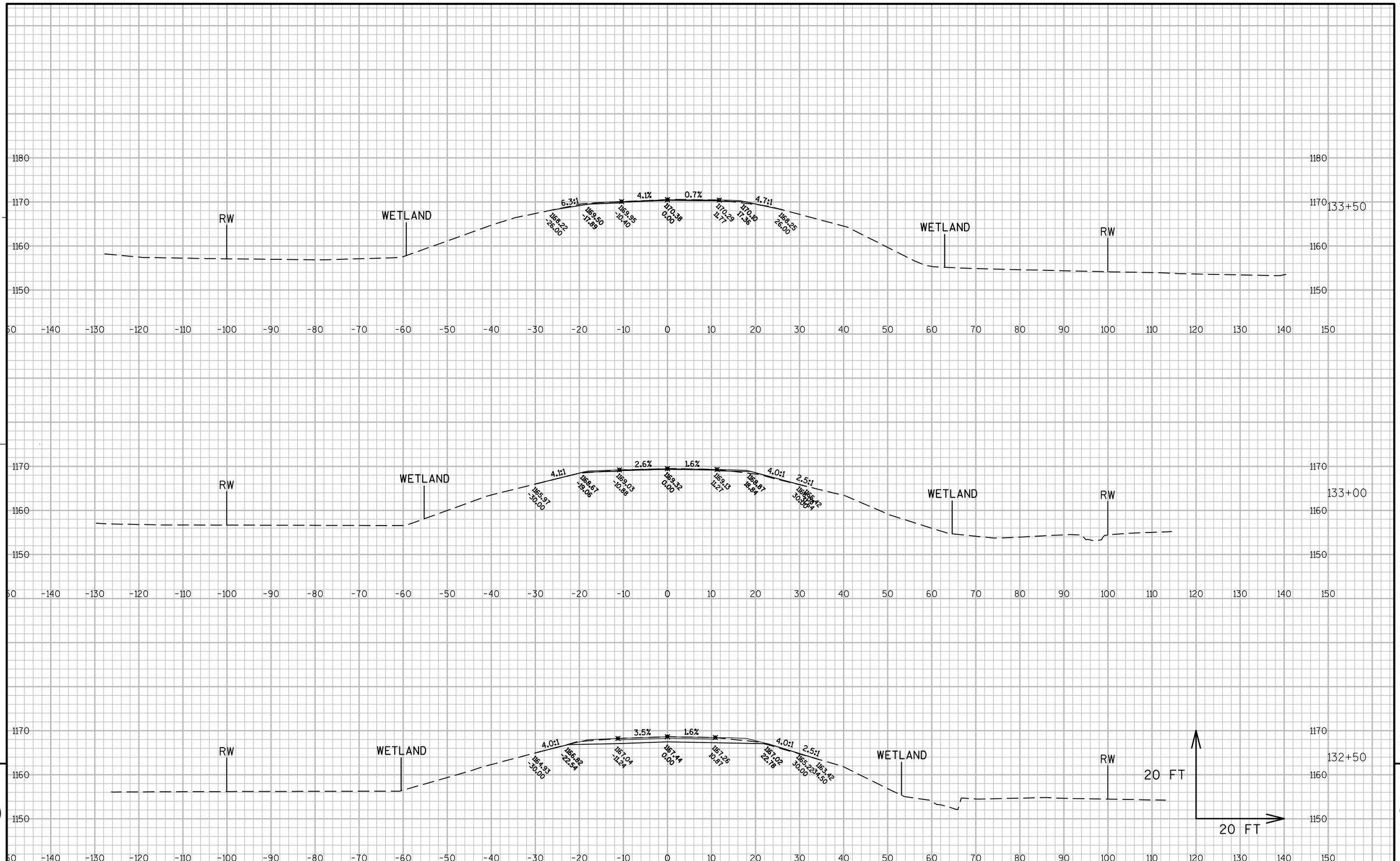
9 9

PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: CULVERT C-34-11	SHEET 127 E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - 90101- (2)

PLOT DATE : 2/10/2016 7:37 AM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

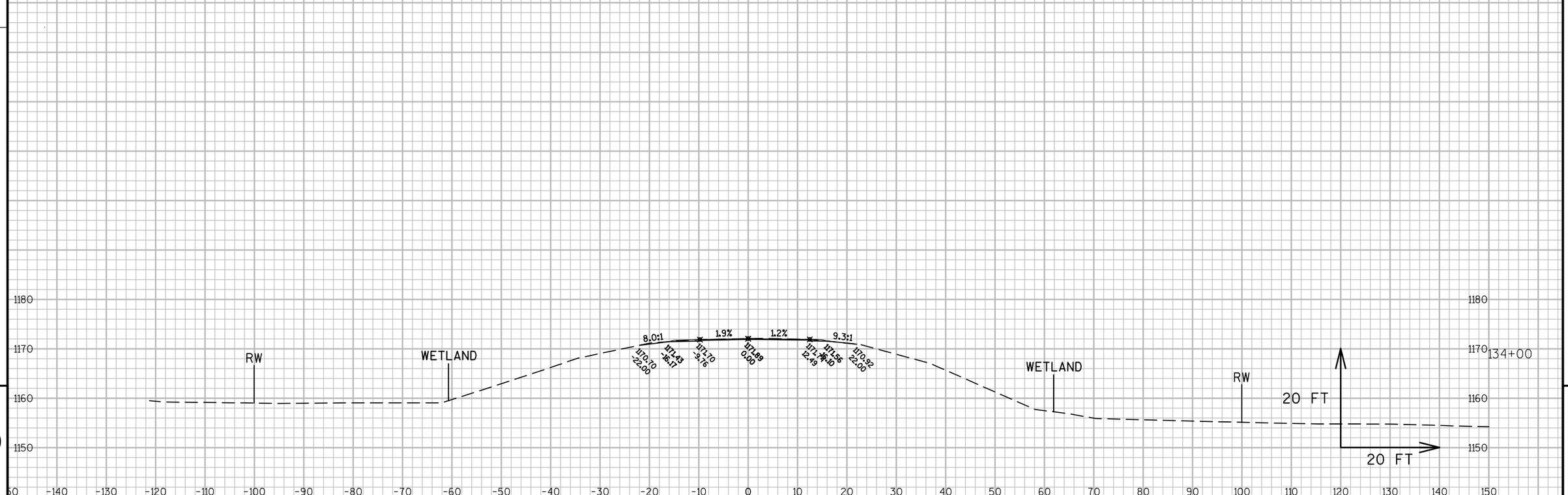


PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: CULVERT C-34-11	SHEET 128	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - 90101 - (3)

PLOT DATE : 2/10/2016 7:39 AM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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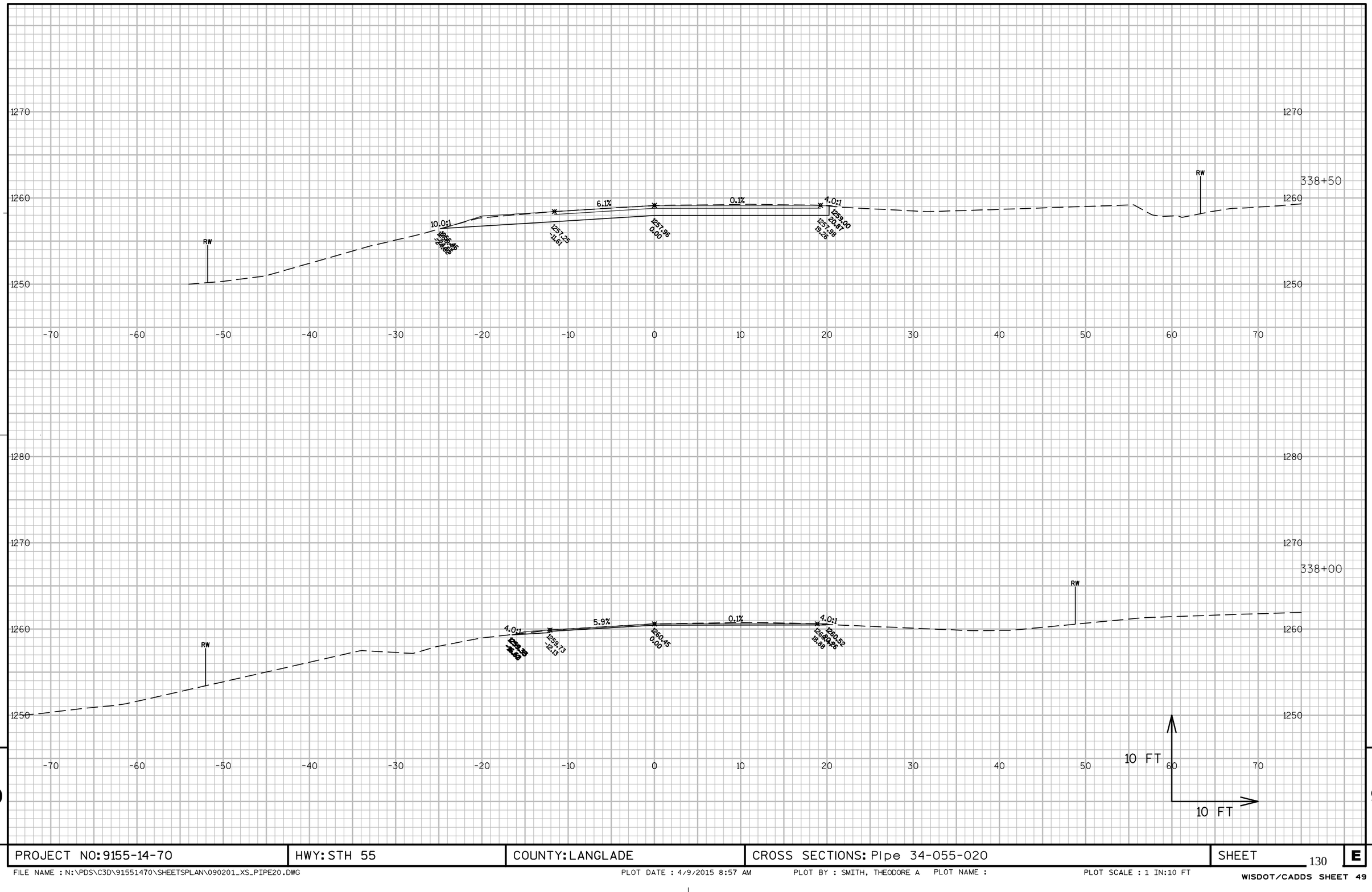
PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: CULVERT C-34-11	SHEET 129	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\090101_XS.DWG
LAYOUT NAME - 90101 - (4)

PLOT DATE : 2/10/2016 7:39 AM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1 IN:20 FT

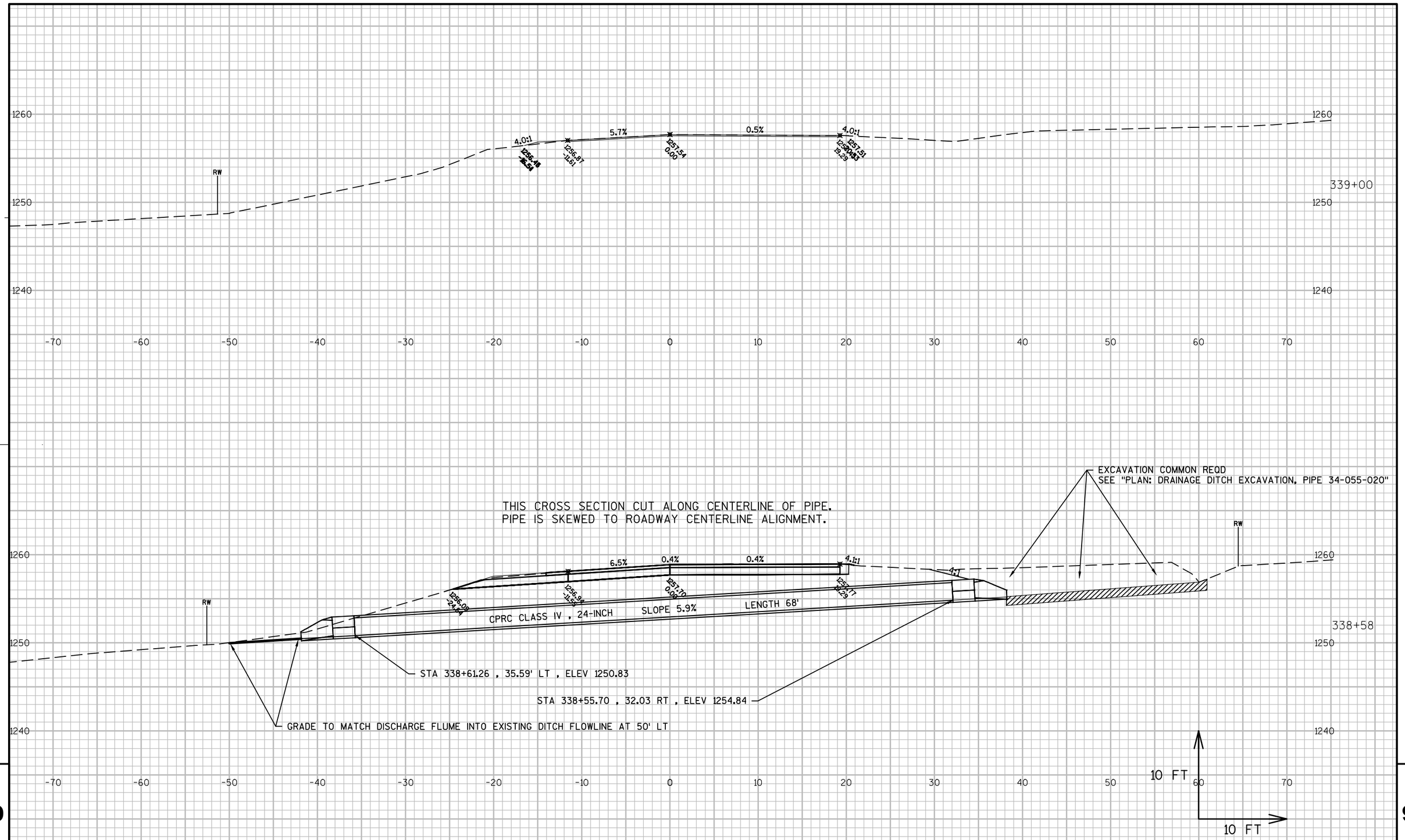
WISDOT/CADDS SHEET 49



PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: Pipe 34-055-020	SHEET 130	E

FILE NAME : N:\PDS\C3D\91551470\SHEETSPLAN\090201_XS_PIPE20.DWG PLOT DATE : 4/9/2015 8:57 AM PLOT BY : SMITH, THEODORE A PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 9155-14-70	HWY: STH 55	COUNTY: LANGLADE	CROSS SECTIONS: Pipe 34-055-020	SHEET 131	E

Wisconsin Department of Transportation

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