RHI

PROJECT ID: 9015-12-70

WITH:

COUNTY: LANGLADE

JUNE 2014

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	5	Plan
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans

TOTAL SHEETS = 104

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9015-12-70	WISC 2014231	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY REHABILITATION PROJECT

LINCOLN COUNTY LINE - ANTIGO

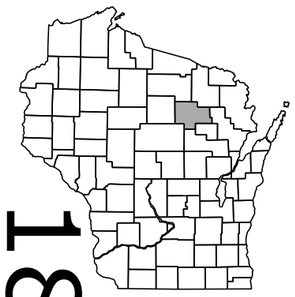
LINCOLN COUNTY LINE TO ZIMA ROAD

STH 64

LANGLADE COUNTY

STATE PROJECT NUMBER

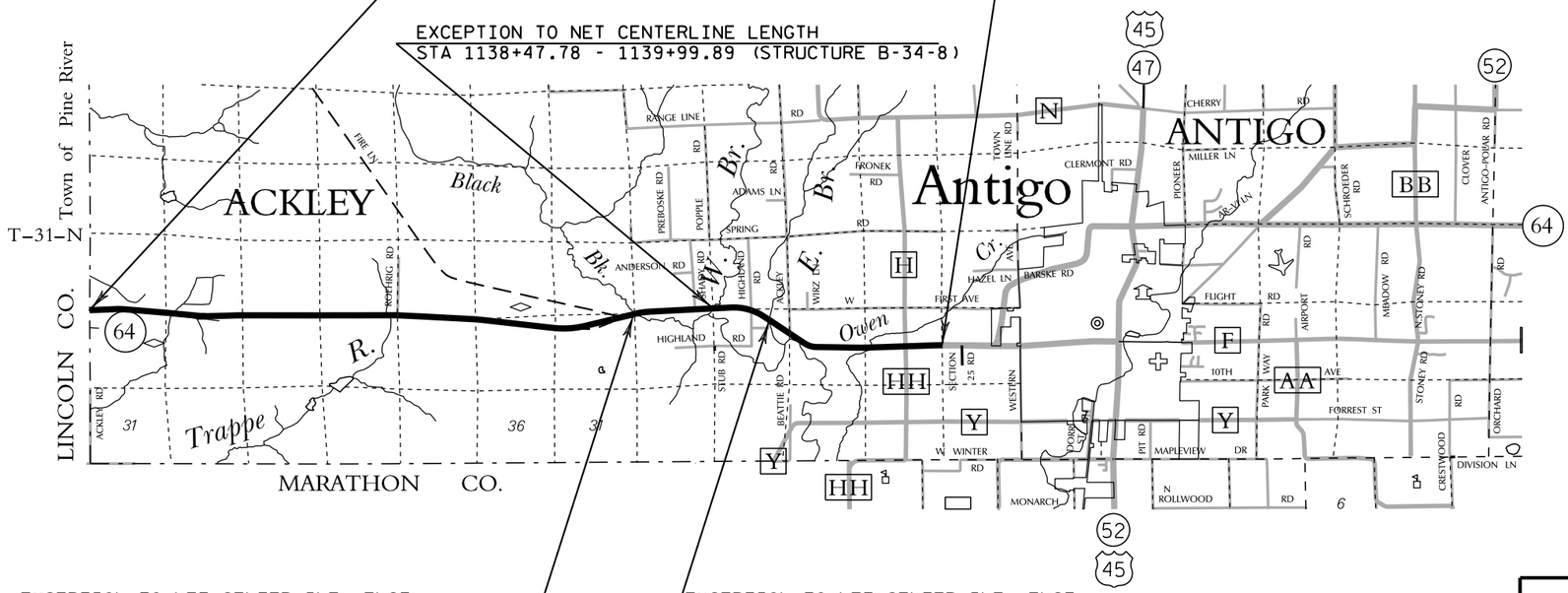
9015-12-70



BEGIN PROJECT 9015-12-70
STA 708+12 STH 64

END PROJECT 9015-12-70
STA 1312+72.71 STH 64

EXCEPTION TO NET CENTERLINE LENGTH
STA 1138+47.78 - 1139+99.89 (STRUCTURE B-34-8)



EXCEPTION TO NET CENTERLINE LENGTH
STA 1038+32.07 - 1039+84.07 (STRUCTURE B-34-5)

EXCEPTION TO NET CENTERLINE LENGTH
STA 1179+86.27 - 1180+84.47 (STRUCTURE B-34-11)

N

DESIGN DESIGNATION

A.A.D.T. 2014	=	1600
A.A.D.T. 2034	=	1950
D.H.V. 2034	=	15.7
D.D.	=	62/38
T.	=	19.6%
DESIGN SPEED	=	55 MPH
ESALS	=	832,200

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS

REFERENCE LINE

COMBUSTIBLE FLUIDS — CAUTION

UTILITIES

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

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 11.452 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), ' *LANGLADE* ' COUNTY, NAD 1983 (2007)

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NATIONAL AMERICAN VERTICAL DATUM OF 1988 NGVD 88 (2007).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	BILL R. GROSKOPF
Project Manager	JIM L. VOLKMANN
Regional Examiner	CHERYL L. SIMON
Regional Supervisor	ANNA M. WISNER
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 1/28/14 Anna Wisner (Signature)

E

GENERAL NOTES

1. SIDEROADS AND PRIVATE ENTRANCE STATIONING CALCULATED FROM PHOTOLOG. ALL SIGNS SHALL BE REPLACED IN THE SAME LOCATION.

2. WHEN THE QUANTITY OF BASE AGGREGATE DENSE, BASE AGGREGATE DISINEGRATED RED GRANITE, OR HMA PAVEMENT, TYPE E-1 IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

3. ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS BETWEEN THE SUBGRADE SHOULDER POINTS SHALL BE TOPSOILED, FERTILIZED, SEEDED, AND MULCHED.

4. THERE ARE UTILITIES IN THIS PROJECT AREA THAT ARE NOT SHOWN ON THE PLAN.

UTILITIES

ANR Pipeline Company-Gas/Petroleum
W3925 Pipeline Ln
Eden, Wi 53019
(920) 477-2235
Lawrence Huber
Lawrence_Huber@transcanada.com

ATC MANAGEMENT,INC.- ELECTRICITY
801 O'keefe Rd
P.O. Box 6113
De Pere, WI 54115-6113
(920) 660-2390
Mike Olsen
molsen@atclic.com

CITY GAS COMPANY-GAS/PETROLEUM
733 5TH AVE
ANTIGO, WI 54409
(715) 627-4351
JACK ZIMMERMAN

Frontier Communications of WI LLC-Communication Line
118 Division Street
Plymouth, WI 53073
(608) 837-1881
robert.church@ftr.com
Robert Church

WISCONSIN PUBLIC SERVICE-ELECTRICITY
700 N. ADAMS ST.
P.O. BOX 19001
GREEN BAY, WI 54307-9001
(920)-433-1703
Lori Butry
LAButry@integrysgroup.com

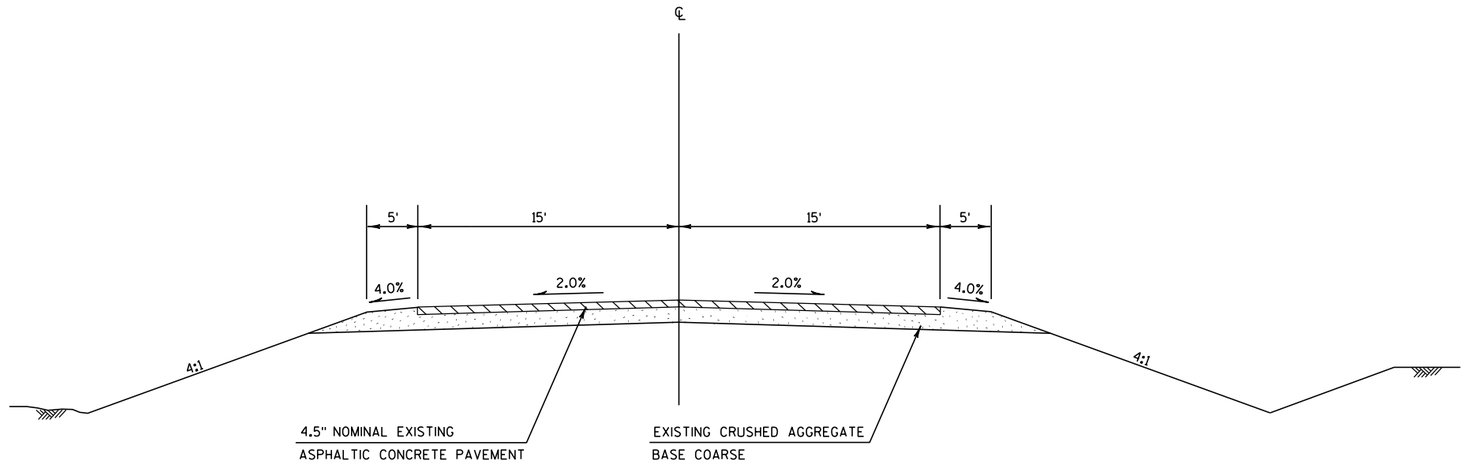
WISCONSIN DEPARTMENT OF NATURAL RESOURCES

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

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

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	GENERAL NOTES	SHEET	E

2

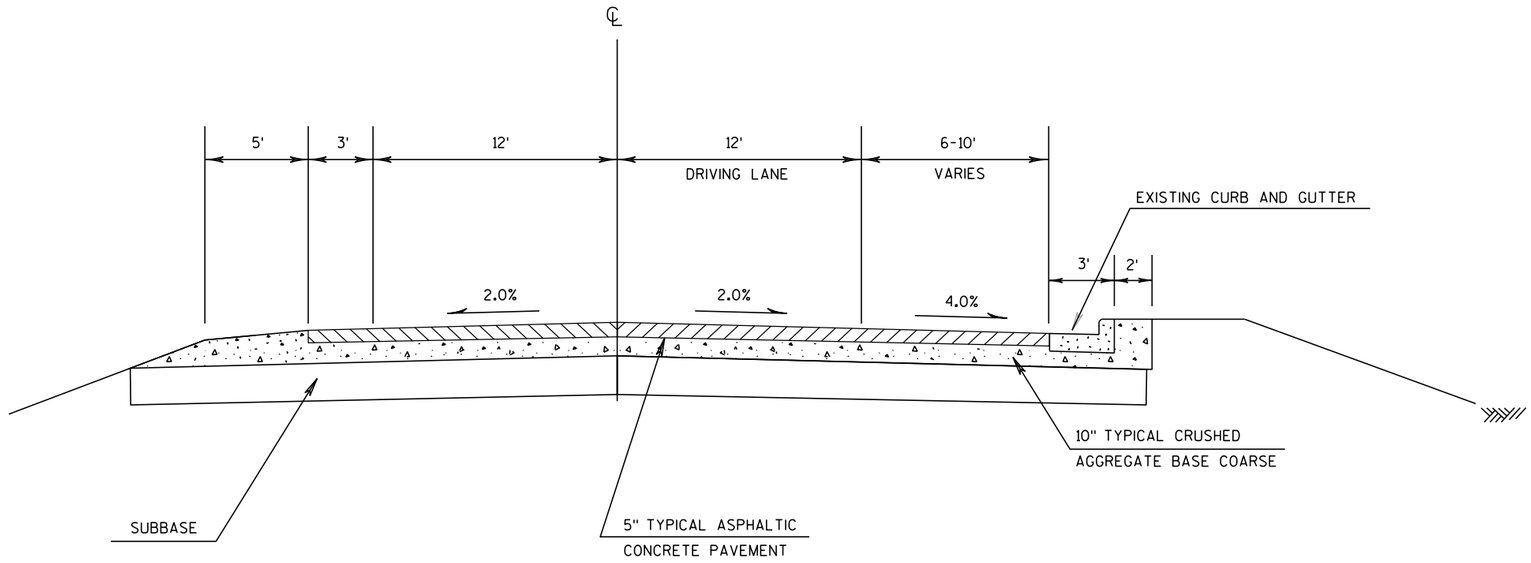


EXISTING TYPICAL SECTION

STA 708+12 - STA 1276+22
STA 1277+75 - STA 1312+72.71

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	TYPICAL SECTIONS	SHEET	E

2



EXISTING TYPICAL SECTION

STA 1276+22 - STA 1277+75

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	TYPICAL SECTIONS	SHEET	E

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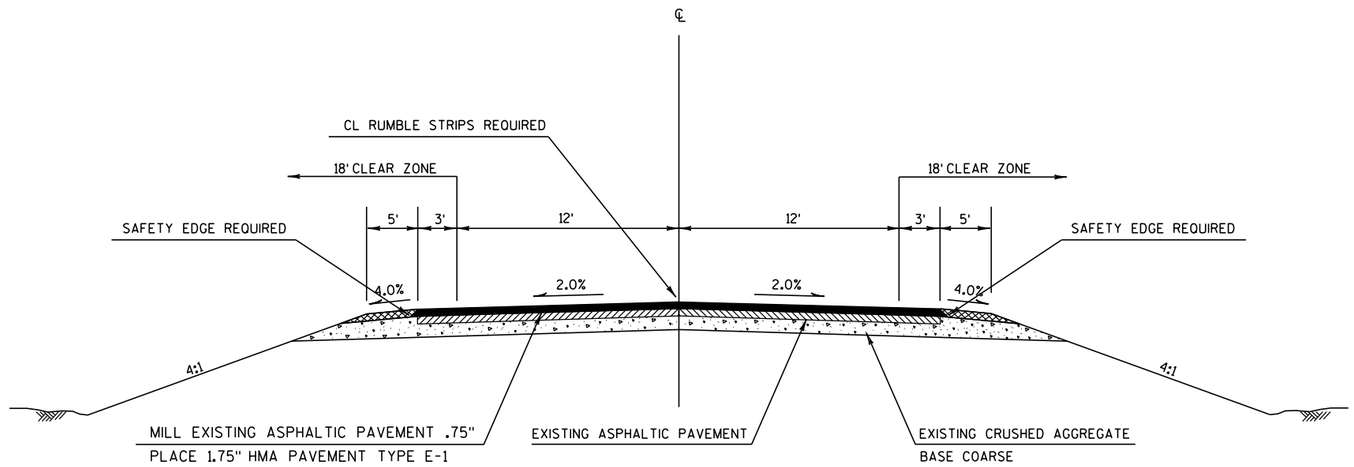
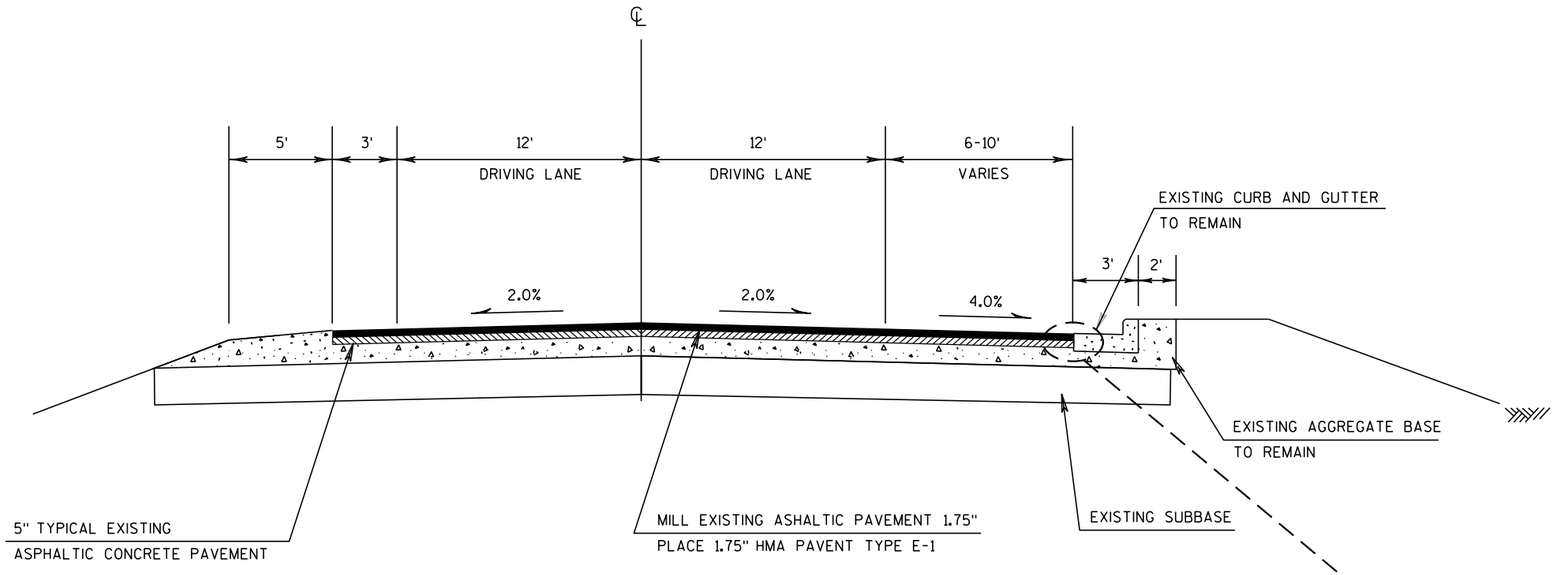


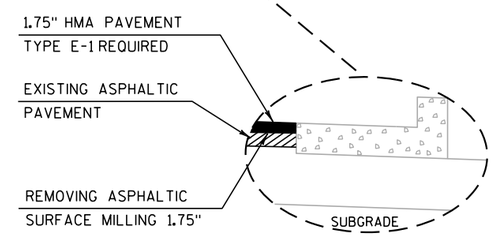
PROPOSED TYPICAL SECTION

STA 708+12 - STA 1276+22
STA 1277+75 - STA 1312+72.71

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	TYPICAL SECTIONS	SHEET	E

2

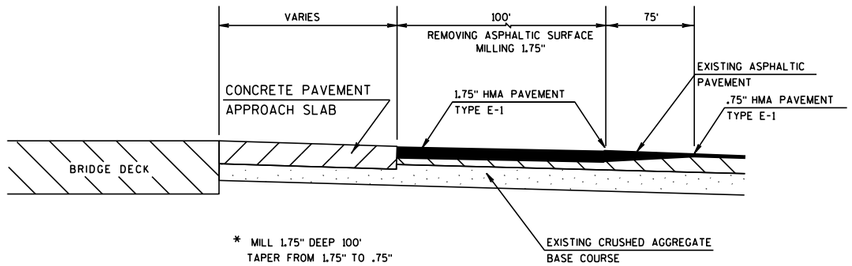


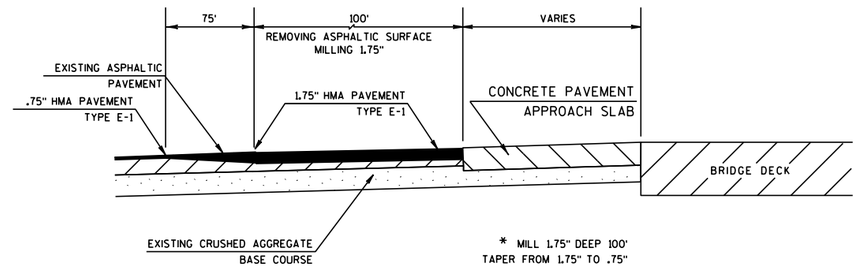


PROPOSED TYPICAL SECTION

STA 1276+22 - STA 1277+75

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	TYPICAL SECTIONS	SHEET	E





EAST APPROACH

B-34-0005 STA 1039+84 - STA 1041+59
B-34-0008 STA 1085+06 - STA 1086+81
B-34-0011 STA 1180+49 - STA 1182+24

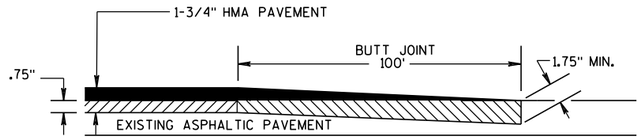
WEST APPROACH

B-34-0005 STA 1036+57 - STA 1038+32
B-34-0008 STA 1082+39 - STA 1084+14
B-34-0011 STA 1177+77 - STA 1179+52

BRIDGE APPROACH DETAIL

B-34-0005, STH 64
B-34-0008, STH 64
B-34-0011, STH 64

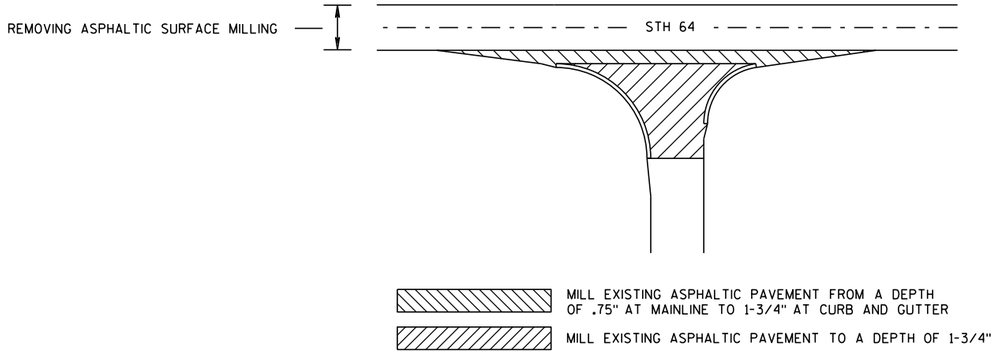
PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CONSTRUCTION DETAIL	SHEET	E



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

MAINLINE BUTT JOINT DETAIL

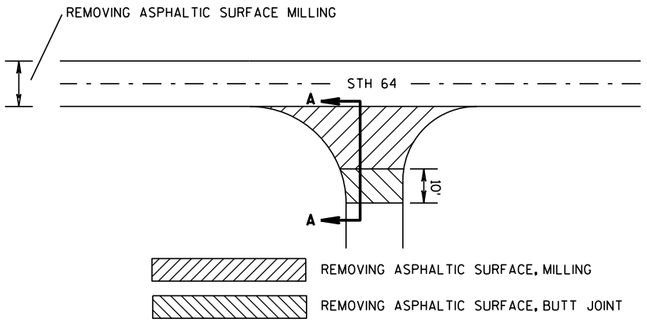
STA 708+12 - STA 708+87
STA 1311+97 - STA 1312+72



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

BUTT JOINT DETAIL

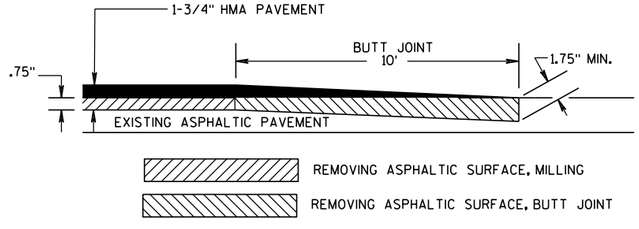
SIDE ROADS WITH CURB AND GUTTER



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

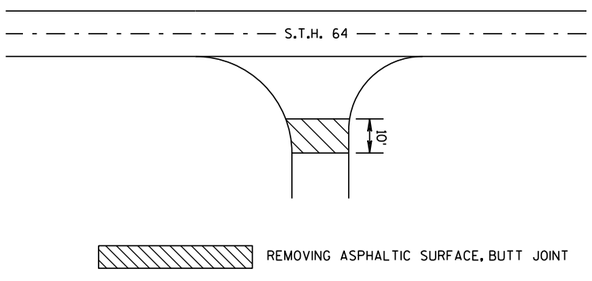
BUTT JOINT DETAIL

SIDE ROADS WITHOUT CURB AND GUTTER AND DRIVEWAYS



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

SECTION A-A

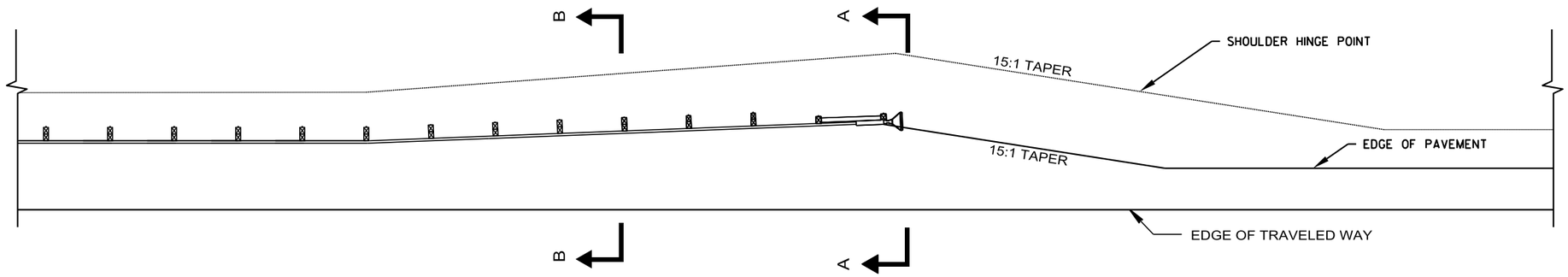


NOTE: EXACT DIMENSIONS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

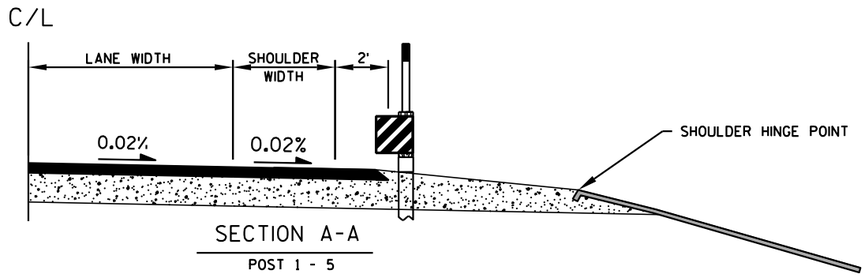
BUTT JOINT DETAIL

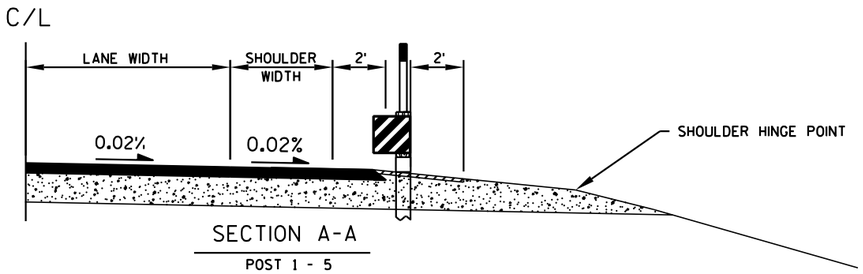
PE'S AND CE'S

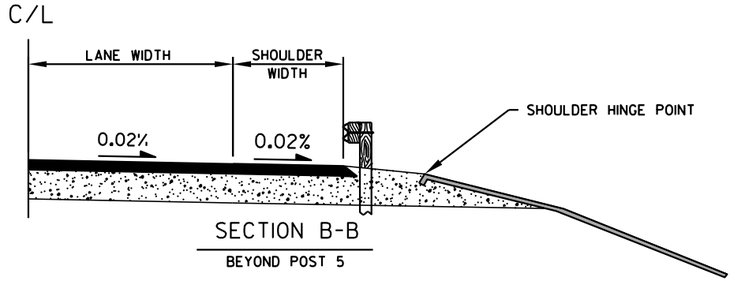
2



SHOULDER PAVING AT GUARDRAIL DETAIL

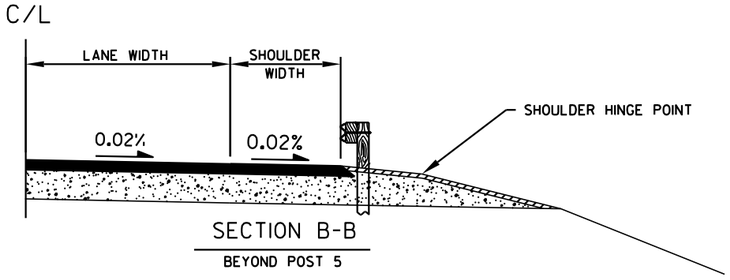






SHOULDER TREATMENT AT GUARDRAIL - EROSION MAT

STA 1202+60 - STA 1205+91 RT

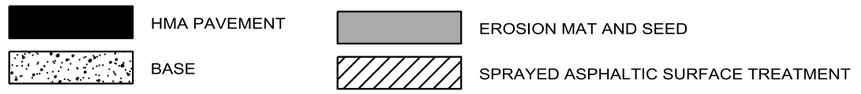


SHOULDER TREATMENT AT GUARDRAIL - SPRAYED ASPHALT

STA 1254+15 - STA 1256+72 RT

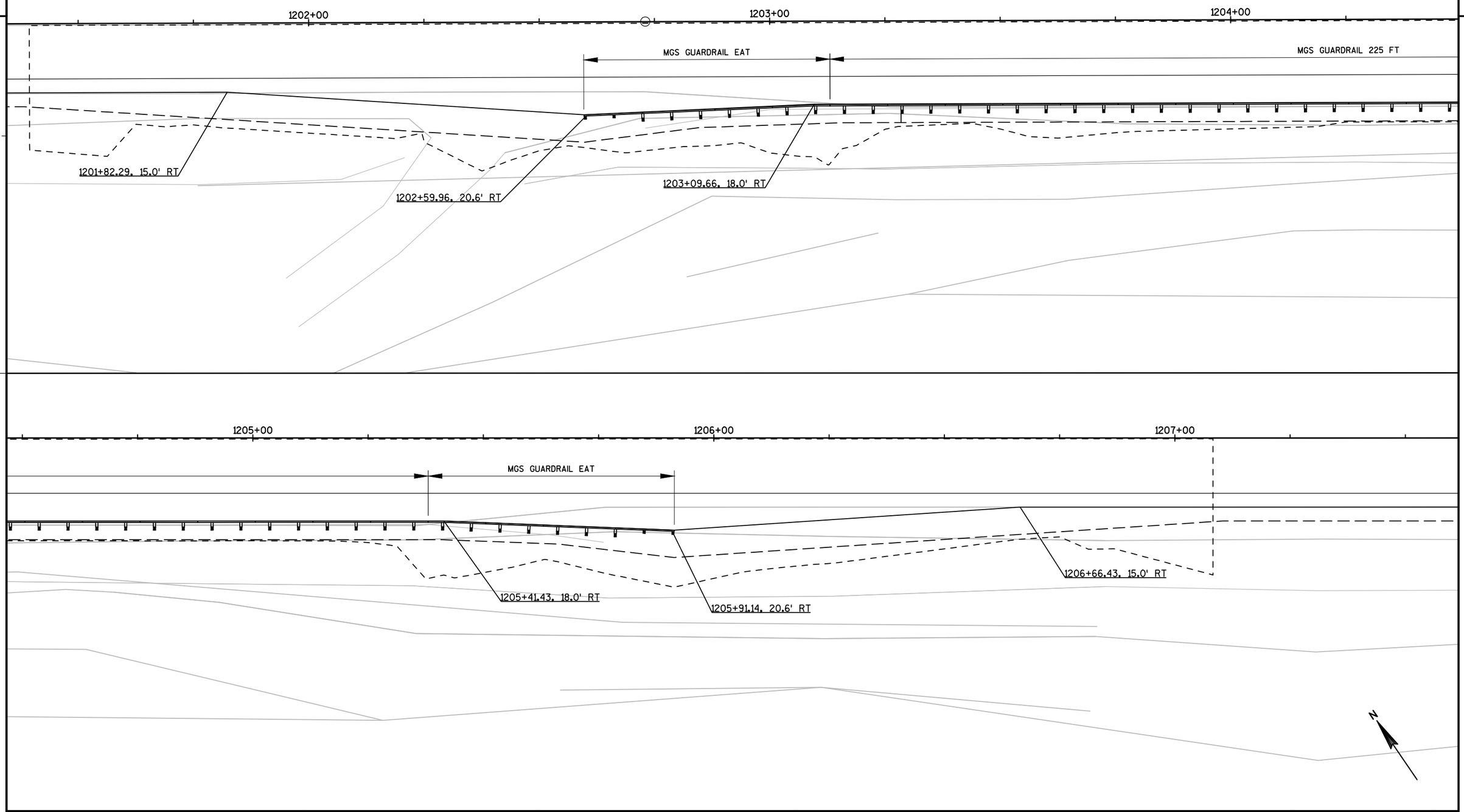
STA 1254+56 - STA 1257+12 LT

NOTE: SEE STANDARD DETAIL DRAWINGS
MIDWEST GUARDRAIL SYSTEM SYSTEM (MGS) GUARDRAIL
MIDWEST GUARDRAIL SYSTEM (MGS) EAT



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CONSTRUCTION DETAIL	SHEET	E

2



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PLAN DETAIL: EAU CLAIRE RIVER BEAM GUARD	SHEET 10	E

2

N

PROPOSED SLOPE INTERCEPT

1254+55.98, -20.6' LT

1255+05.69, -18.0' LT

WETLAND

1253+80.66, -15.0' LT

PT: 1252+92.88

MGS GUARDRAIL EAT

1253+00

1254+00

1255+00

MGS GUARDRAIL EAT

1253+40.23, 15.0' RT

PROPOSED SLOPE INTERCEPT

1254+15.75, 20.6' RT

1254+65.46, 18.0' RT

WETLAND

WETLAND

AND

1257+12.16, -20.6' LT

PROPOSED SLOPE INTERCEPT

1256+62.45, -18.0' LT

1257+88.16, -15.0' LT

MGS GUARDRAIL 150'

MGS GUARDRAIL EAT

1256+00

1257+00

1258+00

MGS GUARDRAIL 150'

MGS GUARDRAIL EAT

1257+46.37, 15.0' RT

1256+22.22, 18.0' RT

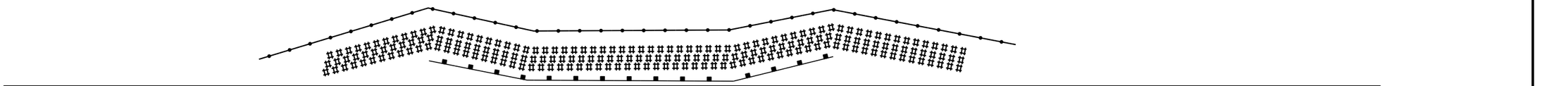
1256+71.93, 20.6' RT

PROPOSED SLOPE INTERCEPT

WETLAND

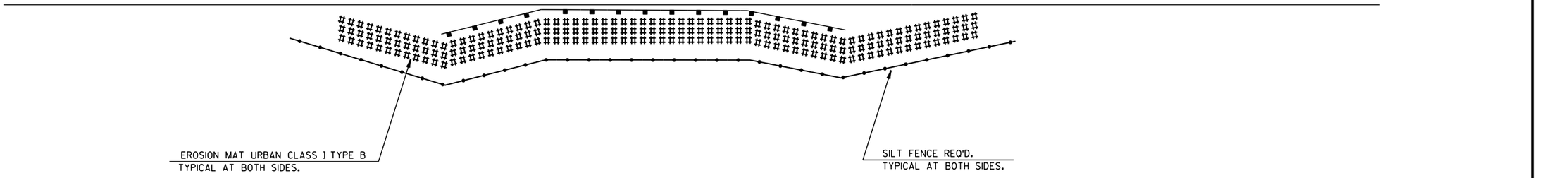
PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PLAN DETAIL: OWEN CREEK BEAMGUARD	SHEET 11	E

2



C/L

C/L

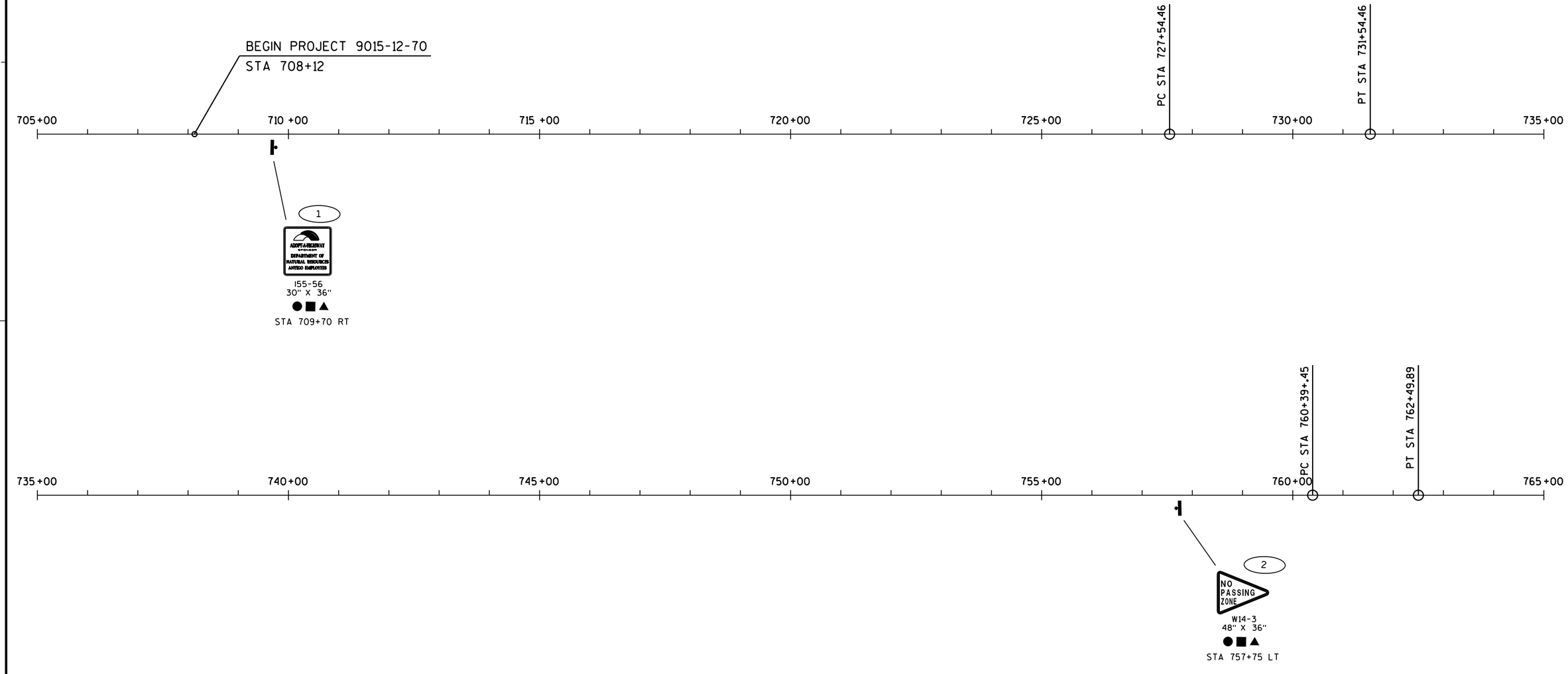


EROSION CONTROL

TYPICAL GUARDRAIL DETAIL

STA 1201+39 - STA 1207+08 LT/RT
STA 1253+00 - STA 1258+31 LT/RT

2



KEY

- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

Permanent sign locations are approximate. Final locations shall be placed oi accordance to details and the MUTCD.

No passing zone pennants shall be placed in accordance with the results of the locating No Passing item.

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

2

765+00 770+00 775+00 780+00 785+00 790+00 795+00

PC STA 785+44.20

PT STA 789+44.20

3

ADOPT-A-HIGHWAY
DEPARTMENT OF NATURAL RESOURCES ANTIGO EMPLOYEES

155-56
30" X 36"
● ■ ▲
STA 796+82 LT

5

NO PASSING ZONE

W14-3
48" X 36"
● ■ ▲
STA 798+41 LT

795+00 800+00 805+00 810+00 815+00 820+00 825+00

PC STA 811+25.24

PT STA 815+25.24

4

ADOPT-A-HIGHWAY
NORTHLAND BIBLE CHURCH

155-56
30" X 36"
● ■ ▲
STA 796+82 RT

Permanent sign locations are approximate. Final locations shall be placed oi accordance to details and the MUTCD.

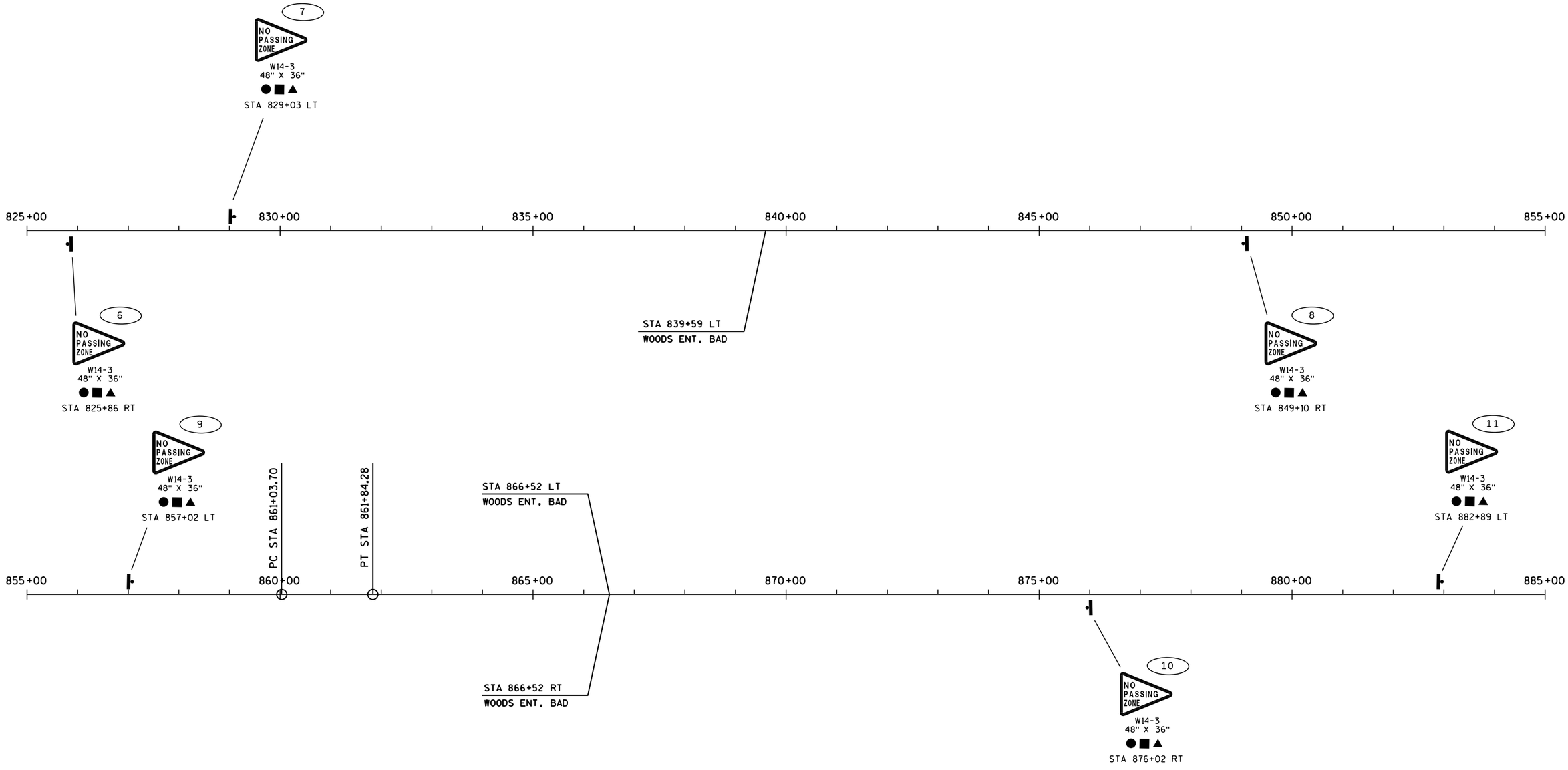
No passing zone pennants shall be placed in accordance with the results of the locating No Passing item.

KEY

- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

2



KEY

- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

Permanent sign locations are approximate. Final locations shall be placed oi accordance to details and the MUTCD.

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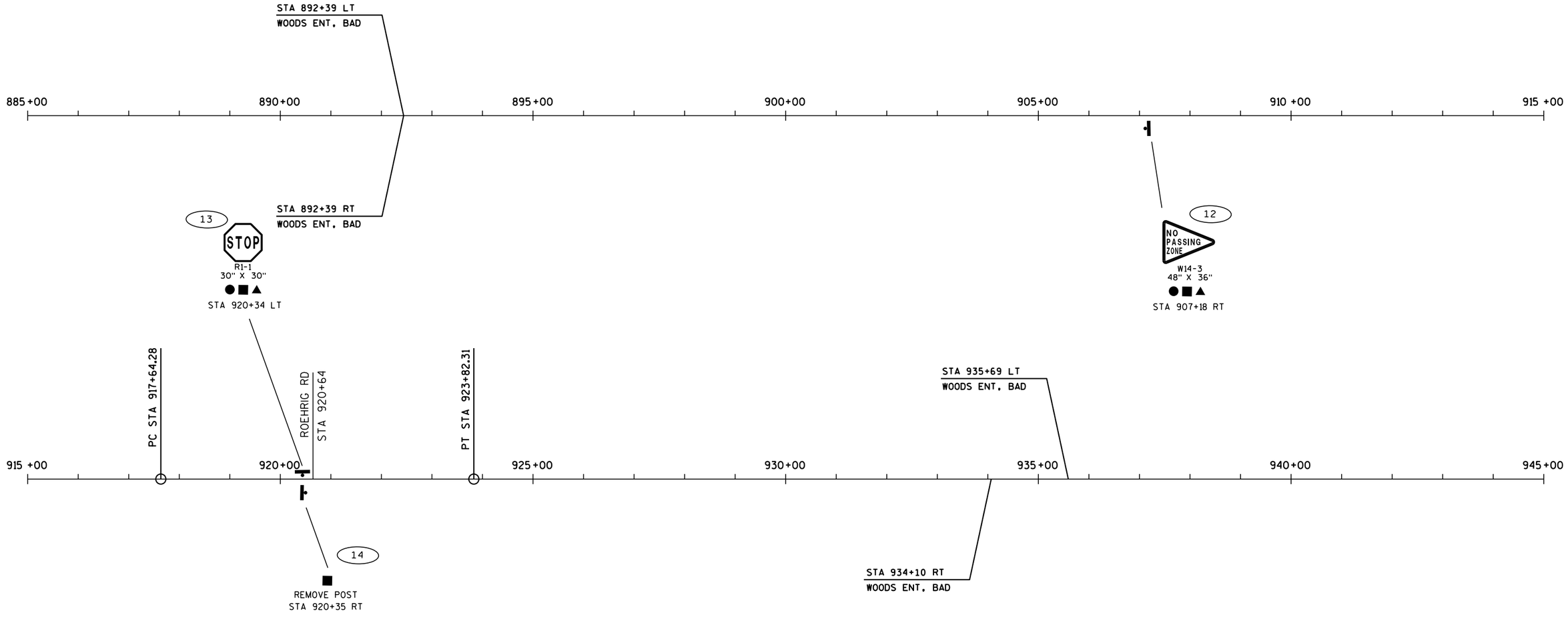
PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

2



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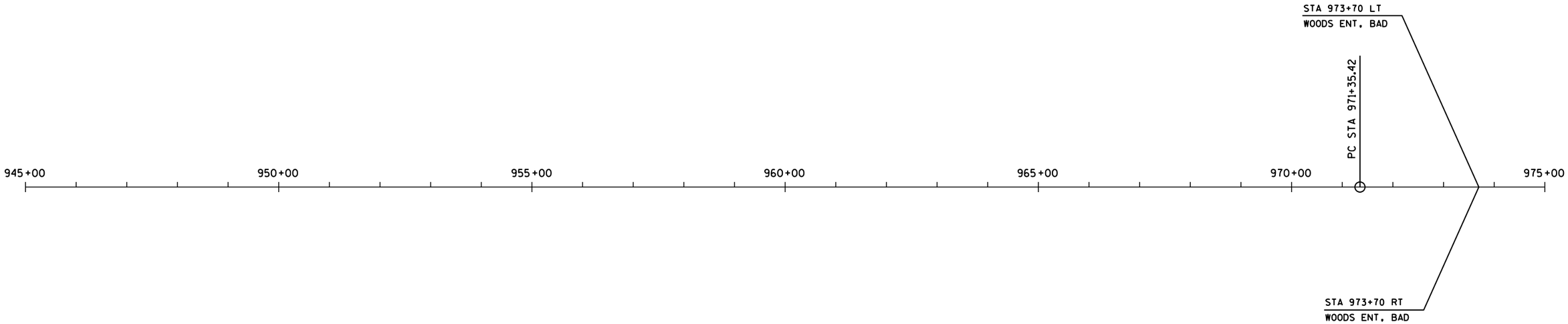
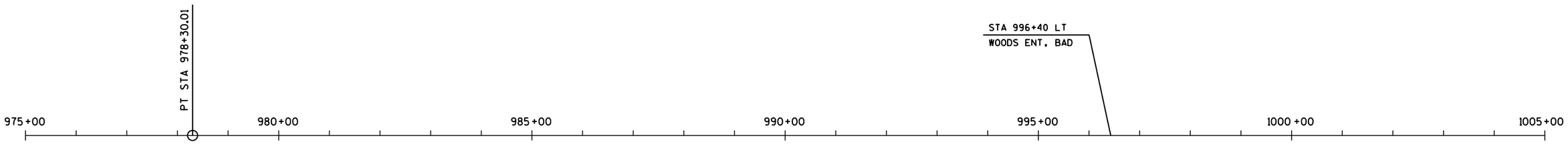
KEY

- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

2





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KEY

- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\pds\project_id\9015-12-30_70_STH_64_LincolnCoLine-Antigo\Cadds\023205_ps.dgn PLOT DATE : 28-JAN-2014 06:55 PLOT BY : dotjvo PLOT NAME : PLOT SCALE : 200:1
WISDOT/CADDS SHEET 42

2

15

NO PASSING ZONE

W14-3
48" X 36"

STA 1005+91 LT

16

NO PASSING ZONE

W14-3
48" X 36"

STA 1022+81 LT

PC STA 1027+94.22

1005+00 1010+00 1015+00 1020+00 1025+00 1030+00 1035+00

17

NO PASSING ZONE

W14-3
48" X 36"

STA 1024+92 RT

19

STRUCTURE B-34-8
EXCEPTION TO NET C/L LENGTH
STA 1038+32.7 - STA 1039+84.07

STA 1039+70 LT
WOODS ENT. BAD

PT STA 1049+85.2

STA 1058+71 LT
REMOVE POST

1035+00 1040+00 1045+00 1050+00 1055+00 1060+00 1065+00

PI STA 1039+00.86

STA 1039+70 RT
WOODS ENT. BAD

18

NO PASSING ZONE

W14-3
48" X 36"

STA 1053+96 RT

KEY

- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

Permanent sign locations are approximate. Final locations shall be placed oi accordance to details and the MUTCD.

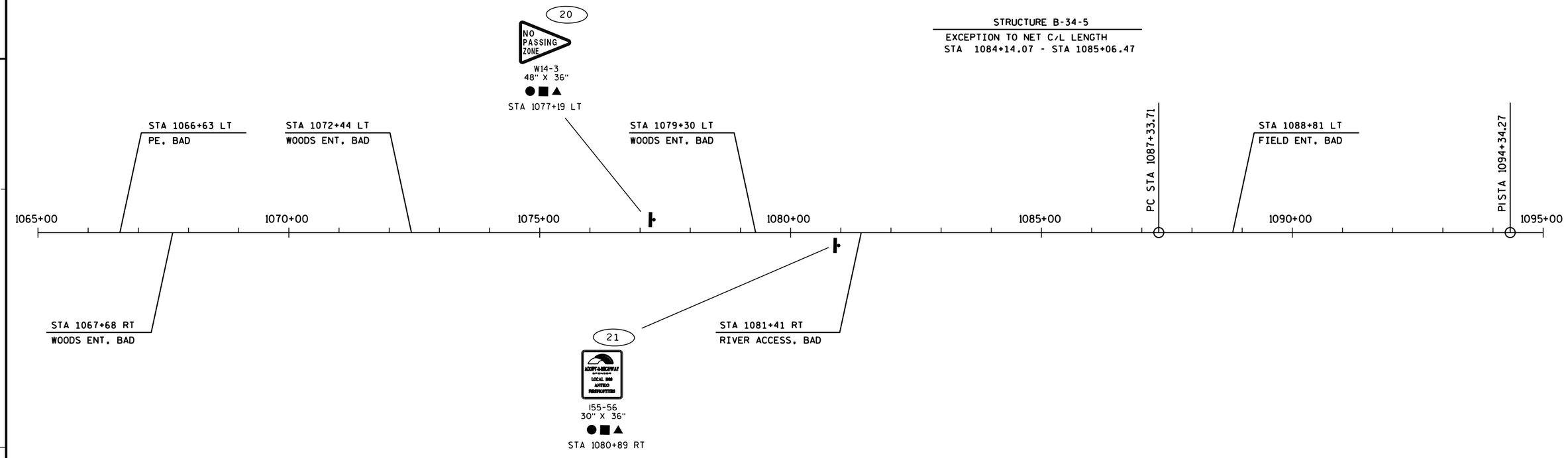
No passing zone pennants shall be placed in accordance with the results of the locating No Passing item.

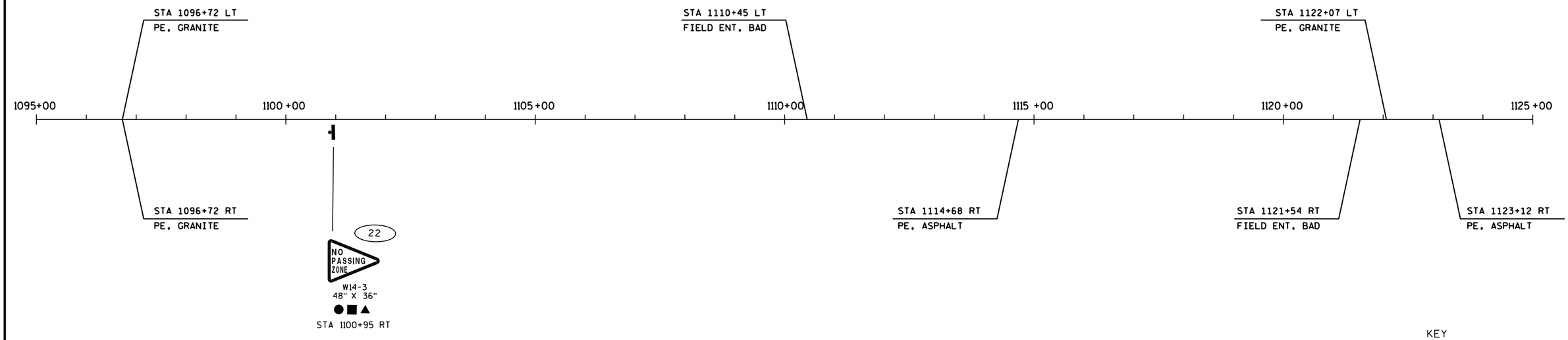
PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\pds\project_id\9015-12-30_70_STH_64_LincolnCoLine-Antigo\Cadds\023206_ps.dgn PLOT DATE : 28-JAN-2014 06:55 PLOT BY : dotjvo PLOT NAME : PLOT SCALE : 200:1

2

STRUCTURE B-34-5
EXCEPTION TO NET C/L LENGTH
STA 1084+14.07 - STA 1085+06.47





KEY

- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- ⊢ SIGNS ON DOUBLE SUPPORT
- ⊢ SIGNS ON SINGLE SUPPORT

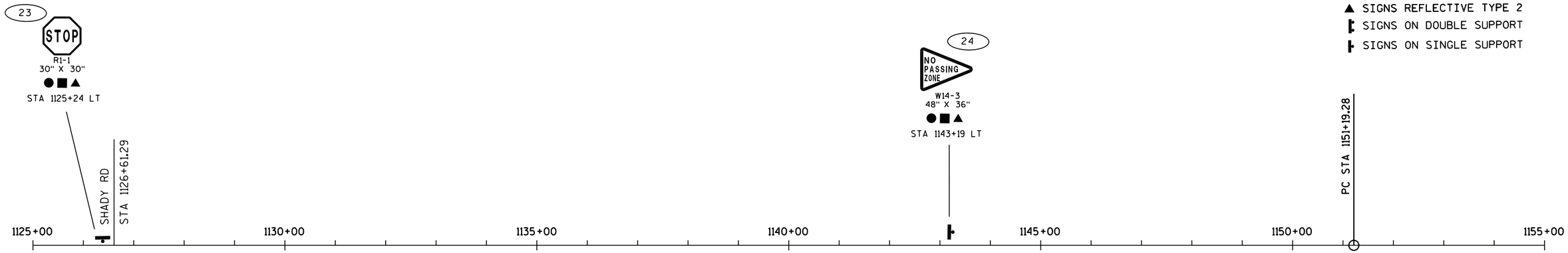
Permanent sign locations are approximate. Final locations shall be placed oi accordance to details and the MUTCD.

No passing zone pennants shall be placed in accordance with the results of the locating No Passing item.

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

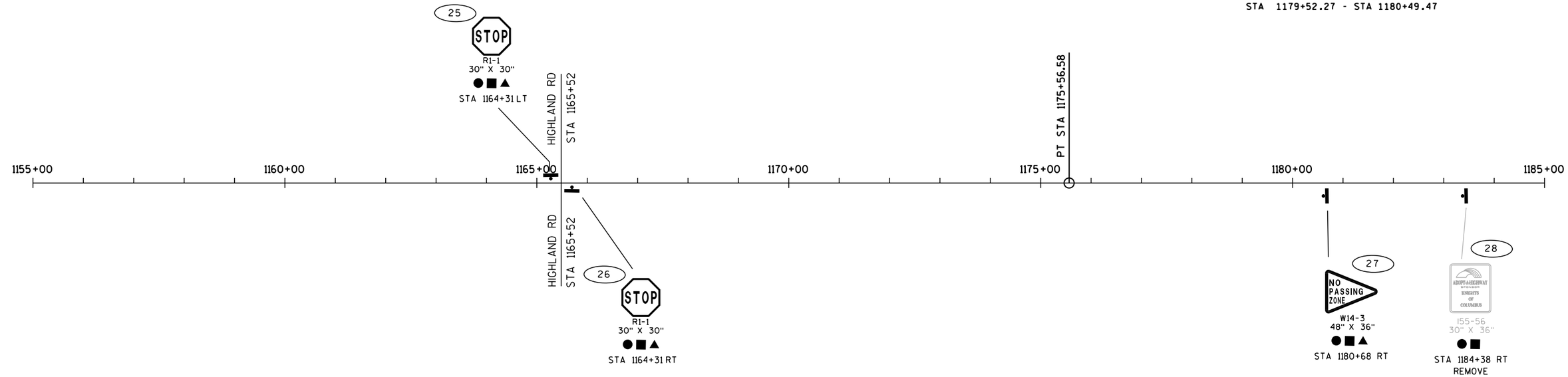
KEY

- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT



PI = 1163+81.03
△ = 36°33'34"
D = 1°30'00"
R = 3819.72'
T = 1261.75'
L = 2437.30'
SE = 0.042%

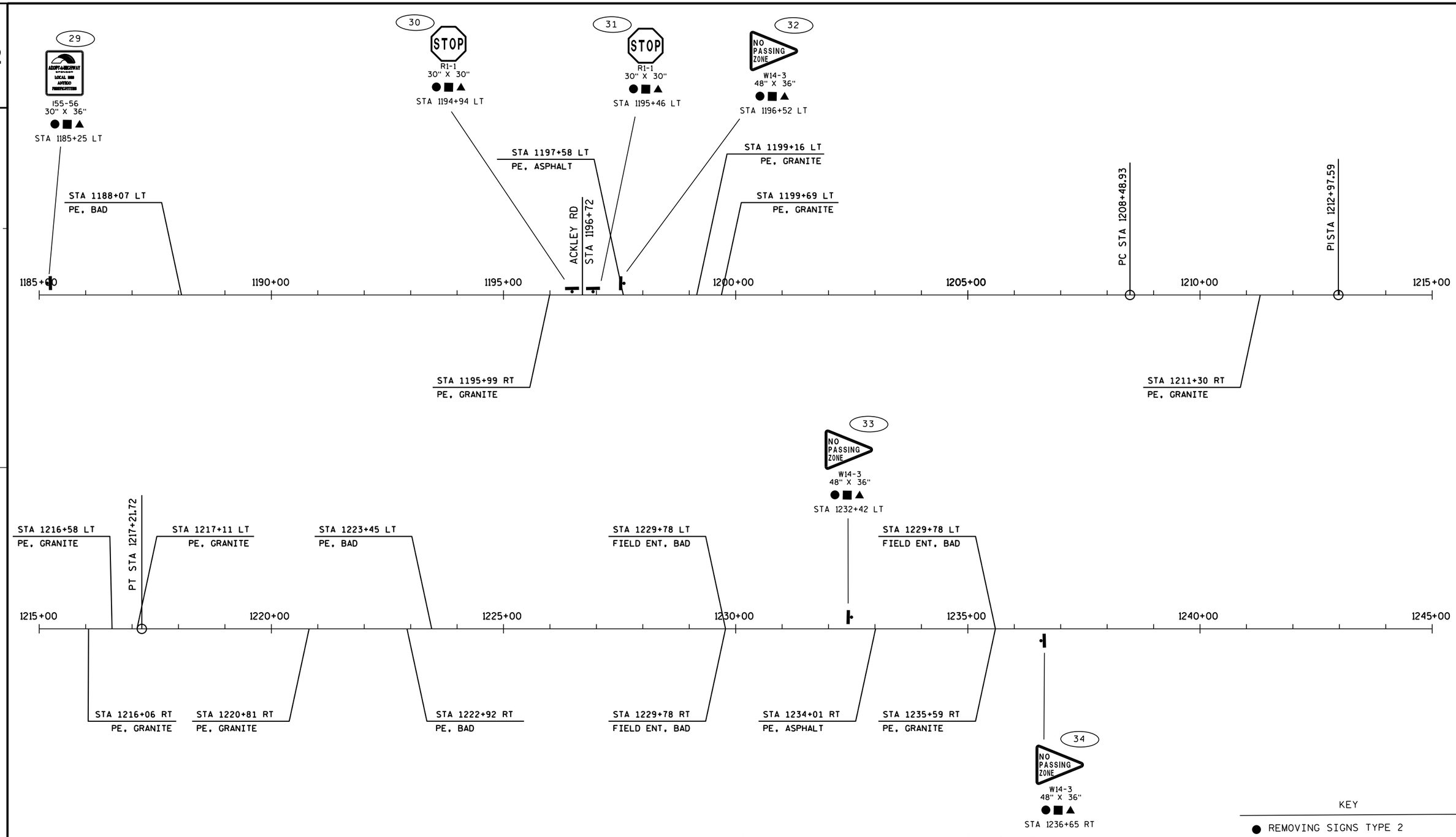
STRUCTURE B-34-11
EXCEPTION TO NET C/L LENGTH
STA 1179+52.27 - STA 1180+49.47



Permanent sign locations are approximate. Final locations shall be placed oi accordance to details and the MUTCD.

No passing zone pennants shall be placed in accordance with the results of the locating No Passing item.

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E



Permanent sign locations are approximate. Final locations shall be placed oi accordance to details and the MUTCD.

No passing zone pennants shall be placed in accordance with the results of the locating No Passing item.

KEY

- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- ⫶ SIGNS ON DOUBLE SUPPORT
- ⊢ SIGNS ON SINGLE SUPPORT

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\pds\project_id\9015-12-30_70_STH_64_LincolnCoLine-Antigo\Cadds\023209_ps.dgn PLOT DATE : 28-JAN-2014 06:55 PLOT BY : dotjvo PLOT NAME : PLOT SCALE : 200:1

KEY

- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

1245+00 1250+00 1255+00 1260+00 1265+00 1270+00 1275+00

STA 1245+62 LT
FIELD ENT, BAD

PC STA 1247+00.73

STA 1250+38 LT
PE, GRANITE

PI STA 1249+76.97

STA 1251+43 LT
PE, GRANITE

PT STA 1252+53.09

STA 1257+24 LT
PE, GRANITE

35
NO PASSING ZONE
W14-3
48" X 36"
● ■ ▲
STA 1258+29 RT

36
JCT
M2-1
21" X 15"
COUNTY H
M1-5A
24" X 24"
COUNTY HH
M1-5A
24" X 24"
● ■ ▲
STA 1267+80 RT

STA 1267+80 LT
FIELD ENT, BAD

STA 1270+97 LT
PE, GRANITE

37
WEST 64
M3-4
24" X 12"
M1-6
24" X 24"
J4-1
24" X 36"
● ■ ▲
STA 1275+72 LT

STA 1245+62 RT
PE, GRANITE

40
64
M1-6
24" X 24"
M6-4
21" X 21"
J13-1
24" X 45"
● ■ ▲
STA 1277+83 LT

41
STOP
R1-1
36" X 36"
● ■ ▲
STA 1277+83 LT

43
M1-5A
24" X 24"
COUNTY HH
COUNTY H
M1-5A
24" X 24"
M6-1
21" X 21"
M6-1
21" X 21"
JV
24" X 63"
● ■ ▲
STA 1278+36 LT

45
ADOPT-A-HIGHWAY SPONSOR KNIGHTS OF COLUMBUS
I55-56
30" X 36"
● ■
STA 1279+42 LT
REMOVE

47
JCT
M2-1
21" X 15"
COUNTY H
M1-5A
24" X 24"
COUNTY HH
M1-5A
24" X 24"
● ■ ▲
STA 1287+33 LT

STA 1258+82 RT
FIELD ENT, GRANITE

STA 1260+41 RT
PE, ASPHALT

STA 1262+00 RT
PE, GRANITE

STA 1264+63 RT
PE, GRANITE

STA 1266+22 RT
PE, GRANITE

STA 1268+86 RT
PE, GRANITE

STA 1270+97 RT
FIELD ENT, BAD

STA 1270+44 RT
PE, GRANITE

STA 1289+45 LT
FIELD ENT, BAD

STA 1297+37 LT
FIELD ENT, BAD

PC STA 1300+59.9

PI STA 1303+36.78

1275+00 1280+00 1285+00 1290+00 1295+00 1300+00 1305+00

CTH H
STA 1278+51

CTH HH
STA 1278+51

38
M1-5A
24" X 24"
COUNTY H
COUNTY HH
M1-5A
24" X 24"
M6-1
21" X 21"
M6-1
21" X 21"
JV
24" X 63"
● ■ ▲
STA 1276+78 RT

39
STOP
R1-1
36" X 36"
● ■ ▲
STA 1277+30 RT

42
64
M1-6
24" X 24"
M6-4
21" X 21"
J13-1
24" X 45"
● ■ ▲
STA 1277+30 RT

44
ADOPT-A-HIGHWAY SPONSOR LELAND TOLFSON VFW POST 3603
I55-56
30" X 36"
● ■
STA 1278+88 RT
REMOVE

STA 1279+42 RT
PE, ASPHALT

STA 1281+53 RT
PE, GRANITE

STA 1284+17 RT
PE, ASPHALT

46
EAST 64
M3-2
24" X 12"
M1-6
24" X 24"
J4-1
24" X 36"
● ■ ▲
STA 1280+47 RT

STA 1289+45 RT
PE, ASPHALT

Permanent sign locations are approximate. Final locations shall be placed oi accordance to details and the MUTCD.

No passing zone pennants shall be placed in accordance with the results of the locating No Passing item.

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

2

2

PT STA 1306+13.56

END PROJECT 9015-12-70
STA 1312+72.71

1305+00 1310+00 1315+00 1320+00 1325+00 1330+00 1335+00

ZIMA RD
STA 1317+18.36

Permanent sign locations are approximate. Final locations shall be placed oi accordance to details and the MUTCD.

No passing zone pennants shall be placed in accordance with the results of the locating No Passing item.

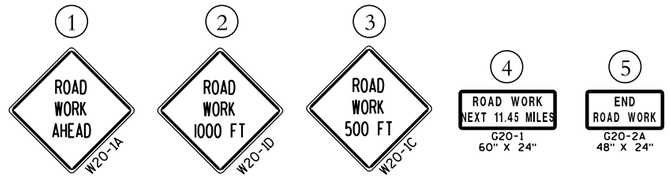
KEY

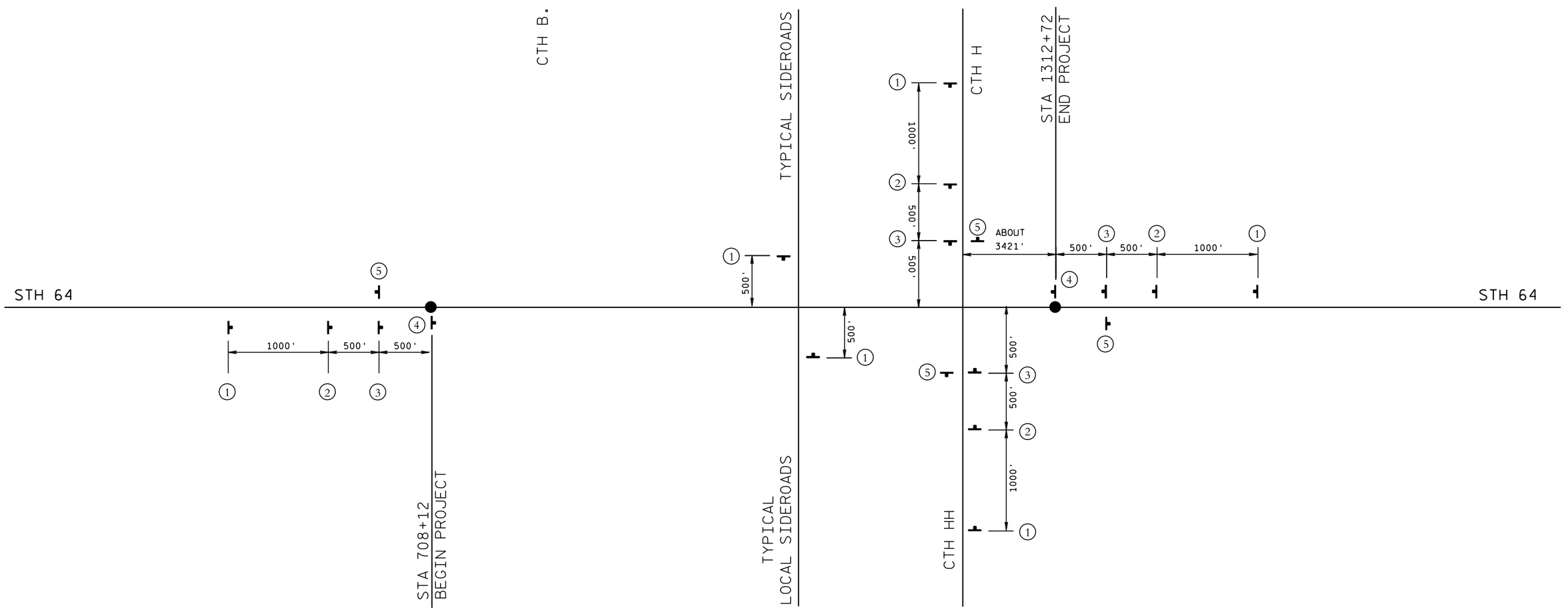
- ● REMOVING SIGNS TYPE 2
- ■ REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- SIGNS ON DOUBLE SUPPORT
- SIGNS ON SINGLE SUPPORT

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\pds\project_id\9015-12-30_70_STH_64_LincolnCoLine-Antigo\Cadds\023211_ps.dgn PLOT DATE : 28-JAN-2014 06:55 PLOT BY : dotjvo PLOT NAME : PLOT SCALE : 200:1
WISDOT/CADDS SHEET 42

2





PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	TRAFFIC CONTROL SHEET	SHEET	E

FILE NAME : N:\pds\project_id\9015-12-30_70_STH_64_LincolnCoLine-Antigo\Cadds\025001_tc.dgn PLOT DATE : 28-JAN-2014 06:55 PLOT BY : dotjvo PLOT NAME : PLOT SCALE : 200:1
WISDOT/CADDS SHEET 42

2

NOT TO SCALE

LEGEND

- TYPE III BARRICADE WITH SIGN
- X — REMOVING OF PAVEMENT MARKINGS
- TEMPORARY SIGNAL WITH BACKPLATE AND 12-INCH LENSES ON BREAKAWAY POLE. THE CONTRACTOR MAY PROVIDE PORTABLE SIGNALS WITH APPROVAL OF PROJECT ENGINEER.
- DIRECTION OF TRAFFIC FLOW
- DRUM WITH WARNING LIGHT, TYPE C (STEADY BURN)
- TRAFFIC DRUM

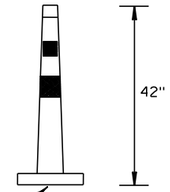
NOTES

SEE SDD TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS AND MARKING GUIDANCE.

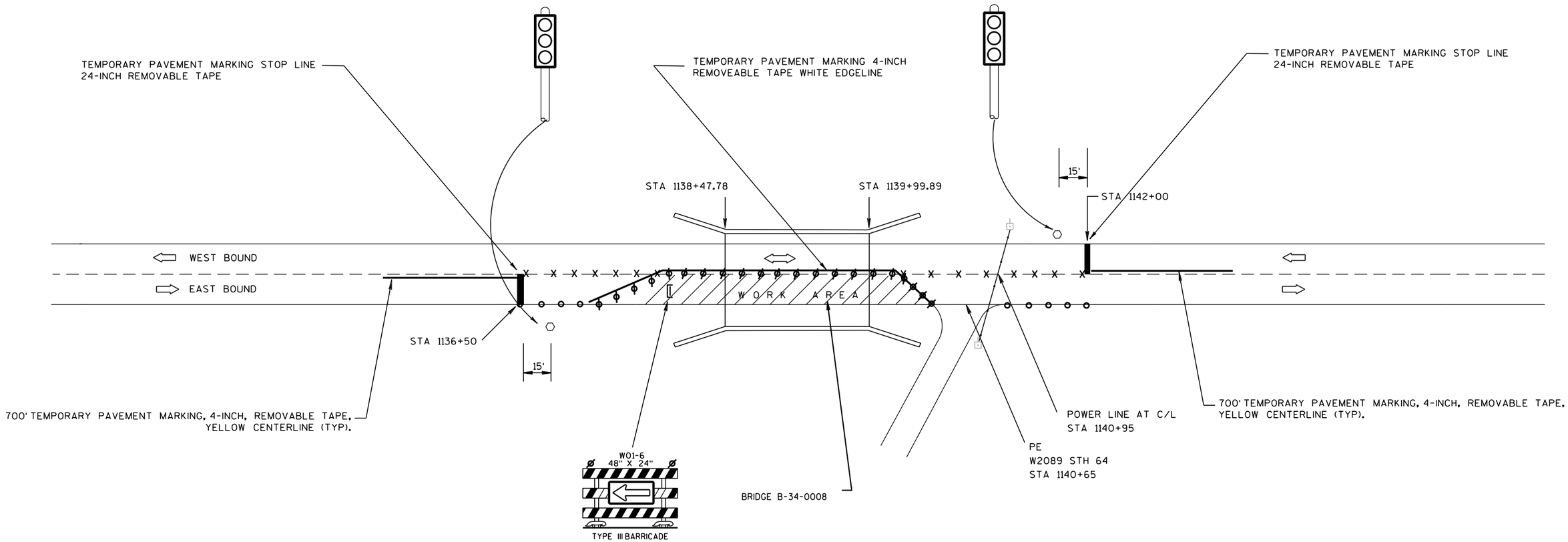
PROPERTY OWNER AT W2089 STH 64 WILL BE NOTIFIED THAT LEAVING PROPERTY WILL BE DONE IN SEQUENCE WITH TEMPORARY TRAFFIC SIGNALS.

PROJECT LEADER WILL NOTIFY PROPERTY OWNER.

42" CHANNELIZERS TO BE PLACED ON STH 64 CENTERLINE SPACE TO BE PAID FOR AS TRAFFIC CONTROL DRUMS.



BASE TO WEIGH A MINIMUM OF 15 LBS.



TEMPORARY SIGNAL DETAIL

(REVERSE FOR OPPOSITE DIRECTION)

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LINCOLN	TRAFFIC CONTROL	SHEET NO: E

FILE NAME : N:\pds\project_id\9015-12-30_70_STH_64_LincolnCoLine-Antigo\Cadds\025002_tc.dgn PLOT DATE : 30-JAN-2014 08:26 PLOT BY : dotjvo PLOT NAME : PLOT SCALE : 200:1

2

TEMPORARY TRAFFIC SIGNAL TIMING

B-34-0008 , STH 64 , WEST BRANCH EAU CLAIRE RIVER BRIDGE
STOP BAR SPACING = 550 FT
STOP BAR LOCATION: STA. 1136+50 RT. (E.B. STH 64)
STA.1142+00. LT (W.B. STH 64)

SEQUENCE 1 (6:00 AM TO 8:00 PM)

EAST BOUND	WEST BOUND	PHASE YELLOW (SEC)	PHASE RED (SEC)	PHASE GEEEN (SEC)
RED	RED	–	21	–
GREEN	RED	–	–	16
YELLOW	RED	4	–	–
RED	RED	–	21	–
RED	GREEN	–	–	16
RED	YELLOW	4	–	–
SUB-TOTALS:		8	42	32
TOTAL:			82	

SEQUENCE 2 (8:00 PM TO 6:00 AM)

EAST BOUND	WEST BOUND	PHASE YELLOW (SEC)	PHASE RED (SEC)	PHASE GEEEN (SEC)
RED	RED	–	21	–
GREEN	RED	–	–	12
YELLOW	RED	4	–	–
RED	RED	–	21	–
RED	GREEN	–	–	12
RED	YELLOW	4	–	–
SUB-TOTALS:		8	42	24
TOTAL:			74	

B-34-0011 , STH 64 , EAST BRANCH EAU CLAIRE RIVER BRIDGE
STOP BAR SPACING = 650 FT
STOP BAR LOCATION: STA. 1177+10 RT. (E.B. STH 64)
STA. 1183+60 LT. (W.B. STH 64)

SEQUENCE 1 (6:00 AM TO 8:00 PM)

EAST BOUND	WEST BOUND	PHASE YELLOW (SEC)	PHASE RED (SEC)	PHASE GEEEN (SEC)
RED	RED	–	24	–
GREEN	RED	–	–	18
YELLOW	RED	4	–	–
RED	RED	–	24	–
RED	GREEN	–	–	18
RED	YELLOW	4	–	–
SUB-TOTALS:		8	48	36
TOTAL:			92	

SEQUENCE 2 (8:00 PM TO 6:00 AM)

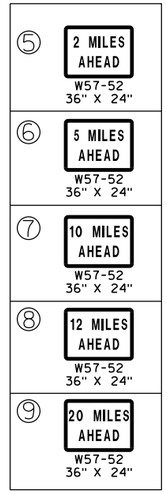
EAST BOUND	WEST BOUND	PHASE YELLOW (SEC)	PHASE RED (SEC)	PHASE GEEEN (SEC)
RED	RED	–	24	–
GREEN	RED	–	–	13
YELLOW	RED	4	–	–
RED	RED	–	24	–
RED	GREEN	–	–	13
RED	YELLOW	4	–	–
SUB-TOTALS:		8	48	26
TOTAL:			82	

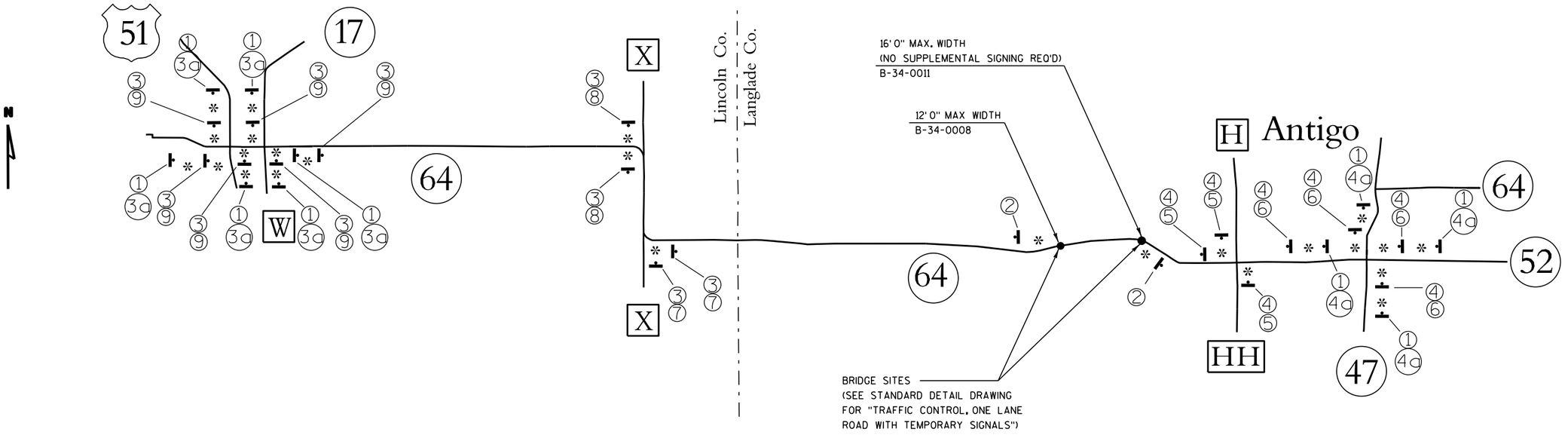
NOTE; IF STOP BAR DISTANCE CHANGES
CONTACT REGION TRAFFIC ENGINEER

TRAFFIC CONTROL NOTES

1. THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE PROJECT ENGINEER.
2. ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE PROJECT ENGINEER.
3. "MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

DISTANCE SIGNS





KEY

*	SPACE SIGNS AT 500 FEET INTERSECTION TO SIGN, AND FROM SIGN TO SIGN
⊦	SIGN ON SUPPORT

SUPPLEMENTAL TRAFFIC CONTROL DETAIL

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	TRAFFIC CONTROL	SHEET E

DATE 02APR14 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	9015-12-70 QUANTITY
0010	204.0115	REMOVING ASPHALTIC SURFACE BUTT JOINTS	SY	661.000	661.000
0020	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	202,874.000	202,874.000
0030	204.0165	REMOVING GUARDRAIL	LF	600.000	600.000
0040	211.0100	PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) 01. 9015-12-70	LS	1.000	1.000
0050	211.0400	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	STA	15.000	15.000
0060	213.0100	FINISHING ROADWAY (PROJECT) 01. 9015-12-70	EACH	1.000	1.000
0070	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	15,007.000	15,007.000
0080	305.0500	SHAPING SHOULDERS	STA	1,210.000	1,210.000
0090	440.4410.S	INCENTIVE IRI RIDE	DOL	45,800.000	45,800.000
0100	455.0105	ASPHALTIC MATERIAL PG58-28	TON	1,101.000	1,101.000
0110	455.0605	TACK COAT	GAL	5,088.000	5,088.000
0120	460.1101	HMA PAVEMENT TYPE E-1	TON	20,100.000	20,100.000
0130	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	12,800.000	12,800.000
0140	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	100.000	100.000
0150	465.0315	ASPHALTIC FLUMES	SY	45.000	45.000
0160	465.0475	ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL	LF	60,058.000	60,058.000
0170	509.0301	PREPARATION DECKS TYPE 1	SY	47.000	47.000
0180	509.0302	PREPARATION DECKS TYPE 2	SY	24.000	24.000
0190	509.2000	FULL-DEPTH DECK REPAIR	SY	5.000	5.000
0200	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	8.000	8.000
0210	509.5100.S	POLYMER OVERLAY	SY	1,377.000	1,377.000
0220	603.8000	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	LF	348.000	348.000
0230	603.8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	696.000	696.000
0240	614.0010	BARRIER SYSTEM GRADING SHAPING FINISHING	EACH	6.000	6.000
0250	614.2300	MGS GUARDRAIL 3	LF	525.000	525.000
0260	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	6.000	6.000
0270	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 9015-12-70	EACH	1.000	1.000
0280	619.1000	MOBILIZATION	EACH	1.000	1.000
0290	621.0100	LANDMARK REFERENCE MONUMENTS	EACH	80.000	80.000
0300	628.1504	SILT FENCE	LF	1,600.000	1,600.000
0310	628.1520	SILT FENCE MAINTENANCE	LF	374.000	374.000
0320	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	3.000	3.000
0330	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	3.000	3.000
0340	628.2008	EROSION MAT URBAN CLASS I TYPE B	SY	740.000	740.000
0350	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	41.000	41.000
0360	637.2210	SIGNS TYPE II REFLECTIVE H	SF	154.000	154.000
0370	637.2230	SIGNS TYPE II REFLECTIVE F	SF	126.000	126.000
0380	638.2602	REMOVING SIGNS TYPE II	EACH	45.000	45.000
0390	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	47.000	47.000
0400	642.5201	FIELD OFFICE TYPE C	EACH	1.000	1.000
0410	643.0100	TRAFFIC CONTROL (PROJECT) 01. 9015-12-70	EACH	1.000	1.000
0420	643.0300	TRAFFIC CONTROL DRUMS	DAY	1,415.000	1,415.000
0430	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	55.000	55.000
0440	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	615.000	615.000
0450	643.0900	TRAFFIC CONTROL SIGNS	DAY	2,720.000	2,720.000
0460	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	172,524.000	172,524.000
0470	646.0600	REMOVING PAVEMENT MARKINGS	LF	162.000	162.000

3

DATE 02APR14 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	9015-12-70 QUANTITY
0480	648.0100	LOCATING NO-PASSING ZONES	MI	11.450	11.450
0490	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	86,148.000	86,148.000
0500	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	4,796.000	4,796.000
0510	649.1400	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 24-INCH	LF	60.000	60.000
0520	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	60,460.000	60,460.000
0530	661.0100	TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (STRUCTURE) 01. B-34-0008	LS	1.000	1.000
0540	661.0100	TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (STRUCTURE) 02. B-34-0011	LS	1.000	1.000
0550	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5. 00/HR	HRS	2,000.000	2,000.000
0560	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	1,260.000	1,260.000
0570	SPV.0060	SPECIAL 01. TEMPORARY PAVEMENT MARKING REFLECTIVE TABS	EACH	1,210.000	1,210.000
0580	SPV.0060	SPECIAL 02. REESTABLISH SECTION CORNER MONUMENTS	EACH	20.000	20.000
0590	SPV.0090	SPECIAL 01. FOG SEAL RUMBLE STRIPS	LF	60,000.000	60,000.000
0600	SPV.0090	SPECIAL 02. SAWING PAVEMENT DECK PREPARATION AREAS	LF	760.000	760.000
0610	SPV.0165	SPECIAL 01. SPRAYED ASPHALTIC SHOULDER TREATMENT	SF	2,048.000	2,048.000
0620	SPV.0195	SPECIAL 01. BASE AGGREGATE DISINTEGRATED GRANITE	TON	298.000	298.000

3

Signing

Sign #	Station	Location	Sign Code	Size	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	634.0614 WOOD POSTS 14 FOOT EACH	Description
1	STA 709+70	RT	I-55-56	30 x 36	1	1	7.5		1	ADOPT A HWY, DNR
2	STA 757+75	RT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
3	STA 796+82	LT	I-55-56	30 x 36	1	1	7.5		1	ADOPT A HWY, DNR
4	STA 796+82	RT	I-55-56			1				ADOPT A HWY SIGN MISSING SIGN REMOVE POST
5	STA 798+41	LT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
6	STA 825+86	RT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
7	STA 829+03	LT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
8	STA 849+10	RT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
9	STA 857+02	LT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
10	STA 876+02	RT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
11	STA 882+89	LT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
12	STA 907+18	RT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
13	STA 920+34	LT	R1-1	30 x 30	1	1	5.18		1	STOP ROEHRIG RD
14	STA 920+34	RT	I-55-56			1				ADOPT A HWY SIGN MISSING SIGN REMOVE POST
15	STA 1005+91	LT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
16	STA 1022+81	LT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
17	STA 1024+92	RT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
18	STA 1053+96	RT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
19	STA 1058+71	LT	I-55-56			1				ADOPT A HWY SIGN MISSING SIGN REMOVE POST
20	STA 1077+19	LT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
21	STA 1080+89	RT	I-55-56	30 x 36	1	1	7.5		1	ADOPT A HWY LOCAL 1000 ANTIGO FIREFIGHTERS
22	STA 1100+95	RT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
23	STA 1125+24	LT	R1-1	30 x 30	1	1	5.18		1	STOP SHADY RD
24	STA 1143+19	LT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
25	STA 1164+31	LT	R1-1	30 x 30	1	1	5.18		1	STOP HIGHLAND RD
26	STA 1164+83	RT	R1-1	30 x 30	1	1	5.18		1	STOP HIGHLAND RD
27	STA 1180+68	RT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
28	STA 1184+38	RT	I-55-56		1	1				ADOPT A HWY KNIGHTS OF COLUMBUS ANTIGO (REMOVE)
29	STA 1185+25	LT	I-55-56	30 x 36	1	1	7.5		1	ADOPT A HWY LOCAL 1000 ANTIGO FIREFIGHTERS
30	STA 1194+94	LT	R1-1	30 x30	1	1	5.18		1	STOP ACKLEY RD
31	STA 1195+46	LT	R1-1	30 x30	1	1	5.18		1	STOP ACKLEY RD
32	STA 1196+52	LT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
33	STA 1232+42	LT	W14-3	48 x36	1	1		6	1	NO PASSING ZONE
34	STA 1236+65	LT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
35	STA1258+29	RT	W14-3	48 x 36	1	1		6	1	NO PASSING ZONE
36	STA 1267+80	RT	JV	24 x 63	1	1	10.5		1	JCT H, HH
37	STA 1275+72	LT	J4-1	24 x 36	2	1	6		1	WEST 64
38	STA 1276+78	RT	J13-2	48 x 45	1	1	15		1	H, (LA) HH, (RA)
39	STA 1277+30	RT	R1-1	36 x 36	1	1	7.46		1	STOP CTH H
40	STA 1277+30	RT	J13-1	24 x 45	1	1	7.5		1	64 (DBA)
41	STA 1277+83	LT	R1-1	36 x 36	1	1	7.46		1	STOP CTH HH
42	STA 1277+83	LT	J13-1	24 x 45	1	1	7.5		1	64 (DBA)
43	STA 1278+36	LT	J13-2	48 x 45	1	1	15		1	HH (LA) H (RA)
44	STA 1278+88	RT	I-55-56		1	1				ADOPT A HWY LELAND TOLEFSON VFW POST 2653 (REMOVE)
45	STA 1279+42	LT	I-55-56		1	1				ADOPT A HWY KNIGHTS OF COLUMBUS ANTIGO (REMOVE)
46	STA 1280+47	RT	J4-1	24 x 36	1	1	6		1	EAST 64
47	STA 1287+33	LT	JV	24 x 63	1	1	10.5		1	JCT H, HH
			Totals		45	47	154.00	126.00	41	

3

REMOVING ASPHALTIC SURFACE MILLING

STATION	LOCATION	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
STA 708+87 – STA 1038+32	LT & RT 30'	109817
STA 1039+84 – STA 1138+48	LT & RT 30'	32880
STA 1140+00 – STA 1179+86	LT & RT 30'	13287
STA 1180+84 – STA 1311+97	LT & RT 30'	43710
STA 1126+61 LT	SHADY ROAD + TAPERS	488
STA 1165+52 LT	HIGHLAND ROAD N. + TAPERS	426
STA 1165+52 RT	HIGHLAND ROAD S. + TAPERS	375
STA 1196+72 LT	ACKLEY ROAD + TAPERS	533
STA 1278+51 LT	CTH H + TAPERS	670
STA 1278+51 RT	CTH HH + TAPERS	688
	TOTAL	202874

REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY
STA 708+12 – STA 708+87		250
STA 1311+97 – STA 1312+72		250
STA 1126+41 LT	SHADY ROAD	24
STA 1165+52 LT	HIGHLAND RD NORTH	24
STA 1165+52 RT	HIGHLAND RD SOUTH	24
STA 1196+72 LT	ACKLEY RD	24
STA 1278+51 LT	CTH H	32
STA 1278+51 RT	CTH HH	33
	TOTAL	661

REMOVING GUARDRAIL

LOCATION	204.0165 REMOVING GUARDRAIL LF
STA 1202+73 – STA 1205+73 RT	300
STA 1254+53 – STA 1256+03 LT & RT	300
TOTAL	600

PREPARE FOUNDATION FOR ASPHALTIC SHOULDER

LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDER STA
STA 1253+75 – STA 1258+00 LT GUARDRAIL TAPERS	5
STA 1253+37 – STA 1257+50 RT GUARDRAIL TAPERS	5
STA 1201+87 – STA 1203+12 RT GUARDRAIL TAPERS WEST END	3
STA 1205+40 – STA 1206+65 RT GUARDRAIL TAPERS EAST END	2
TOTAL	15

NOTE; PAVING TO FACE OF RAIL AND 15:1 TAPERS

BASE AGGREGATE DENSE

LOCATION	305.0110 BASE AGGREGATE DENSE 3/4 INCH TON	SPV.0195.01 DISINTEGRATED GRANITE BASE AGGREGATE TON
STA 708+12– STA 1038+32 LT & RT	7644	
STA 1039+84 – STA 1138+48T & RT	2283	
STA 1140+00 – STA 1179+86 LT & RT	923	
STA 1180+84 – STA 1312+72 LT & RT	3663	
PE's	294	248
UNDISTRIBUTED	200	50
TOTAL	15007	298

PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT)

LOCATION	211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING LS
PROJECT 9015-12-70	1

3

FINISHING ROADWAY (PROJECT)

LOCATION	213.0100 EACH
PROJECT 9015-12-70	1
TOTAL	1

SHAPING SHOULDERS

LOCATION	305.0500 SHAPING SHOULDERS STA
PROJECT 9015-12-70 LT & RT	1210
STA 708+12 – 1312+72	
TOTAL	1210

HMA PAVEMENT

LOCATIONS	455.0105 ASPHALTIC MATERIAL PG 58-28 TON	455.0605 TACK COAT GAL	460.1101 HMA PAVEMENT TYPE E-1 TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY
STA 708+12– STA 1038+32 LT & RT	593	2752	10787		
STA 1039+84 – STA 1138+48 LT & RT	177	822	3222		
STA 1140+00 – STA 1179+86 LT & RT	72	332	1302		
STA 1180+84 – STA 1312+72 LT & RT	238	1099	4308		
SIDE ROADS	18	83	327		
PE's				100	
STA 1253+37 – STA 1257+87 LT & RT TAPERS	2		36		
STA 1201+72 – STA 1206+62 RT TAPERS	1		18		
STA 1126+41 SHADY RD N/E QUAD					9
STA 1165+52 HIGHLAND RD S. S/W & S/E QUAD					18
STA 1196+72 ACKLEY RD N/E QUAD					9
STA 1274+13 RT WEST END OF C&G					9
UNDISTRIBUTED			100		
TOTAL	1101	5088	20100	100	45

3

ASPHALTIC SURFACE RUMBLE STRIPS

LOCATION	465.0475 ASPHALT CENTER LINE RUMBLE STRIP 2 LANE RURAL LF
STA 708+12- STA 1038+32	33020
STA 1039+84 - STA 1138+48	9864
STA 1140+00 - STA 1179+86	3986
STA 1180+84 - STA 1312+72	13188
TOTAL	60058

BARRIER SYSTEM GRADING SHAPING FINISHING
MSG GUARDRAIL
GUARDRAIL TERMINAL EAT

LOCATION	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH	614.2300 MGS GUARDRAIL 3 LF	614.2610 GUARDRAIL TERMINAL EAT EACH	SPV.0165.01. SPRAYED ASPHALTIC SHOULDER TREATMENT SF	EXCAVATION COMMON CY	FILL CY	TOPSOIL SY	SEED LBS	FERT CWT
STA 1253+80 - STA 1257+85 LT	2	150	2	1024	5	23	113	2	0.07
STA 1253+37 - STA 1257+40 RT	2	150	2	1024	5	22	113	2	0.07
STA 1201+39 - STA 1207+08 RT	2	225	2		5	23	113	2	0.07
TOTALS	6	525	6	2048	15	68	339	6	0.21
					(*)	(*)	(*)	(*)	(*)

(*) ITEMS AND QUANTITIES LISTED FOR BID INFORMATION ONLY.

3

CONCRETE BARRIER TEMPORARY

LOCATION	COMMENTS	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF
B-34-0011	STAGE 1	348	348
B-34-0011	STAGE 2		348
	TOTAL	348	696

EROSION CONTROL

LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.1905 MOBILIZATIONS EROSION CONTROL EACH
PROJECT				
STA 708+12 - STA 1312+72				3
BEAM GUARD				
STA 1253+80 - STA 1257+85 LT	450	112	120	
STA 1253+37 - STA 1257+40 RT	450	112	120	
STA 1201+39 - STA 1207+08 RT	600	150	400	
UNDISTRIBUTED	100		100	
TOTALS	1600	374	740	3

REFERENCE MONUMENTS

LOCATIONS	621.0100 LANDMARK REFERENCE MONUMENTS EA	SPV.0060.02 REESTABLISH SECTION CORNER MONUMENTS EA
NW Corner, Section 30 T31N, R9E	4	1
N1/4 Corner, Section 30 T31N, R9E	4	1
NE Corner, Section 30 T31N, R9E	4	1
N1/4 Corner, Section 29 T31N, R9E	4	1
NE Corner, Section 29 T31N, R9E	4	1
N1/4 Corner, Section 28 T31N, R9E	4	1
NE Corner, Section 28 T31N, R9E	4	1
N1/4 Corner, Section 27 T31N, R9E	4	1
NE Corner, Section 27 T31N, R9E	4	1
N1/4 Corner, Section 26 T31N, R9E	4	1
NE Corner, Section 26 T31N, R9E	4	1
N1/4 Corner, Section 25 T31N, R9E	4	1
NE Corner, Section 25 T31N, R9E	4	1
N1/4 Corner, Section 30 T31N, R10E	4	1
NE Corner, Section 30 T31N, R10E	4	1
N1/4 Corner, Section 29 T31N, R10E	4	1
NE Corner, Section 29 T31N, R10E	4	1
N1/4 Corner, Section 28 T31N, R10E	4	1
W1/4 Corner, Section 26 T31N, R10E	4	1
E1/4 Corner, Section 26 T31N, R10E	4	1
TOTAL	80	20

3

TRAFFIC CONTROL

LOCATION	643.0100 TRAFFIC CONTROL PROJECT EACH	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0715 WARNING LIGHTS TYPE C DAYS	643.0900 SIGNS DAYS
PROJECT 9015-12-70	1				1125
STA 1254+00 -STA 1257+50 LT & RT GUARDRAIL REPLACEMENT		70			
STA 1202+60 - STA 1205+91 RT GUARDRAIL REPLACEMENT		35			
B-34-8 POYLMER OVERLAY STAGE 1 & 2		110	5	15	95
B-34-11 DECK REPAIRS AND POLYMER OVERLAY (STAGE 1)		600	25	300	750
B-34-11 DECK REPAIRS AND POLYMER OVERLAY (STAGE 2)		600	25	300	750
TOTALS	1	1415	55	615	2720

NOTE: SEE TRAFFIC CONTROL SHEET FOR BRIDGE B-34-8,
USING 42" CHANNELIZERS ON CENTERLINE.
CHANNELIZERS ARE BEING PAID AS DRUMS.

TEMPORARY PAVEMENT MARKING

LOCATION	COMMENTS	649.0100 TEMPORARY PAVEMENT MARKING 4 INCH LF	646.0600 REMOVING PAVEMENT MARKING LF	649.0400 TEMP PAV'T MARKING REM TAPE 4-INCH LF	649.1400 TEMP PAV'T MARKING STOP LINE REM TAPE 24-INCH LF
B-34-8	C/L NO PASSING ZONE	1400	162	1400	30
B-34-0011	STAGE 1 C/L BRIDGE & S.L.'S	1400		1748	30
B-34-0011	STAGE 1 SHOULDER: SL - SL			650	
B-34-0011	STAGE 2 C/L BRIDGE			348	
B-34-0011	STAGE 2 SHOULDER: SL - SL			650	
	TOTAL	2800 (*)	162	4796	60

NOTE; (*) ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LOCATING NO PASSING ZONES

LOCATION	648.0100 LOCATING NO PASSING ZONES MI
STA 708+12 - STA 1312+72	11.45
TOTAL	11.45

PAVEMENT MARKING

LOCATION	646.0106 PAVEMENT MARKING EPOXY 4 INCH LF	649.0100 TEMPORARY PAVEMENT MARKING 4 INCH LF
WEST BOUND SOLID C/L (FINAL)	18388	
EAST BOUND SOLID C/L (FINAL)	18750	
DASHED CENTERLINE BOTH (FINAL)	13608	
WEST BOUND EDGELINE	60929	
EAST BOUND EDGELINE	60849	
CENTERLINE AFTER MILLING		41674
CENTERLINE AFTER PAVING		41674
TOTALS	172524	83348

TEMPORARY TRAFFIC SIGNALS FOR BRIDGES

LOCATION	STRUCTURE	661.0100 TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (STRUCTURE) LS
STH 64	B-34-0008	1
STH 64	B-34-0011	1

3

RESURFACING REFERENCE

LOCATION	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF
PROJECT	
STA 708+12 - STA 1312+72	60460
TOTAL	60460

TEMPORARY PAVEMENT MARKING REFLECTIVE TABS

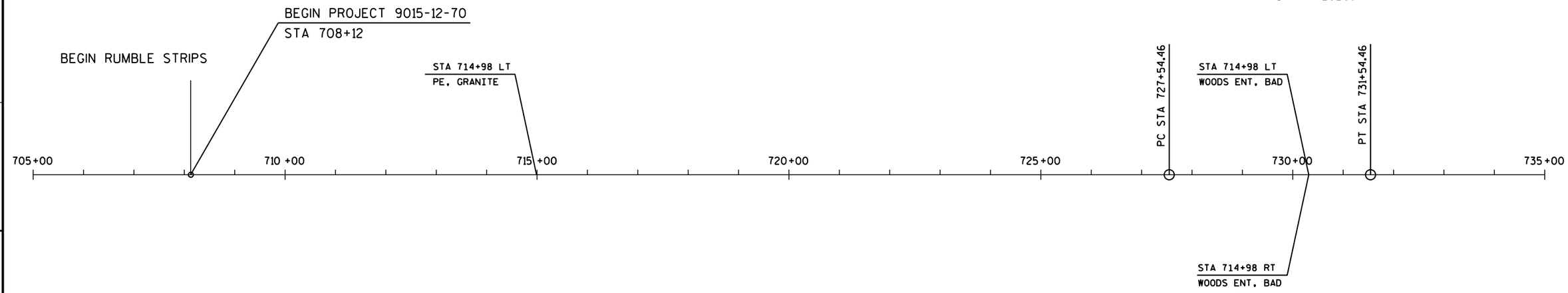
LOCATION	SPV.0060.01 EACH
STA 708+12 - STA 1312+72	1210
TOTAL	1210

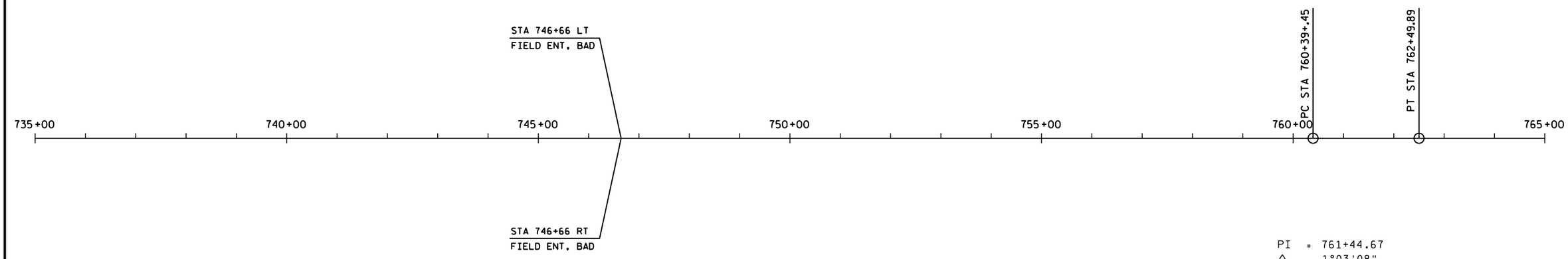
FOG SEAL RUMBLE STRIPS

LOCATION	SPV.0090.01 FOG SEAL RUMBLE STRIPS LF
STA 708+12 - STA 1312+72	60000
TOTAL	60000

PI = 708+69.26
△ = 4°18'57"
D = 1°12'15"
R = 4757.80'
T = 179.28'
L = 358.39'
SE = NC

PI = 729+54.72
△ = 7°02'12"
D = 1°45'33"
R = 3256.91'
T = 200.25'
L = 400.00'
SE = 0.041%
ST = 262.0





PI = 761+44.67
△ = 1°03'08"
D = 0°30'00"
R = 11459.16'
T = 105.22'
L = 210.44'
SE = 0.02%
ST = 350.0

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	LINE DIAGRAM STA 705+00 - STA 765+00	SHEET	E

PI = 787+44.47
△ = 7°14'01"
D = 1°48'30"
R = 3168.35'
T = 200.27'
L = 400.00'
SE = 0.041%
ST = 262.0

765+00 770+00 775+00 780+00 785+00 790+00 795+00

PC STA 785+44.20

PT STA 789+44.20

STA 773+06 RT
MARSH ENT, BAD

795+00 800+00 805+00 810+00 815+00 820+00 825+00

STA 808+96 LT
WOODS ENT, BAD

PC STA 811+25.24

PT STA 815+25.24

STA 811+60 RT
WOODS ENT, BAD

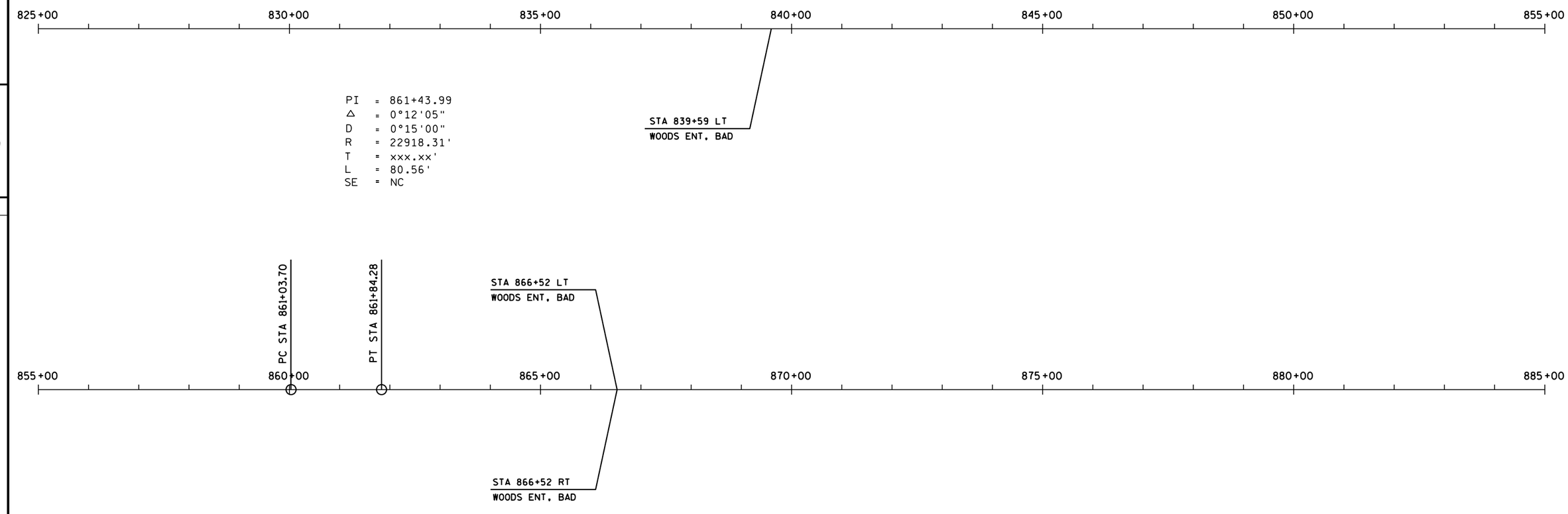
STA 812+13 RT
WOODS ENT, BAD

STA 821+11 RT
PE, BAD

PI = 813+25.25
△ = 1°41'45"
D = 0°25'26"
R = 13514.03'
T = 200.02'
L = 400.00'
SE = 0.02%
ST = 350.0

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	LINE DIAGRAM STA 765+00 - STA 825+00	SHEET	E

FILE NAME : N:\pds\project_id\9015-12-30_70_STH_64_LincolnCoLine-Antigo\Cadds\050402_ld.dgn PLOT DATE : 28-JAN-2014 06:56 PLOT BY : dotjvo PLOT NAME : PLOT SCALE : 200:1



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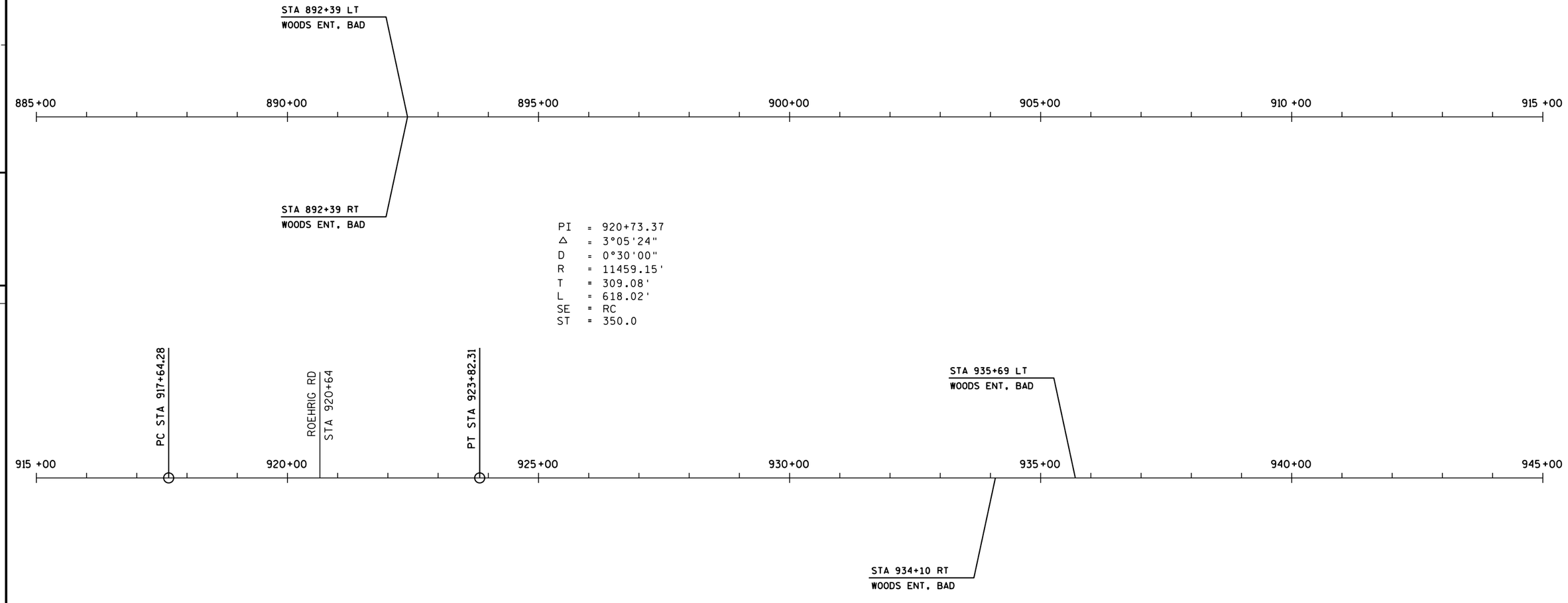
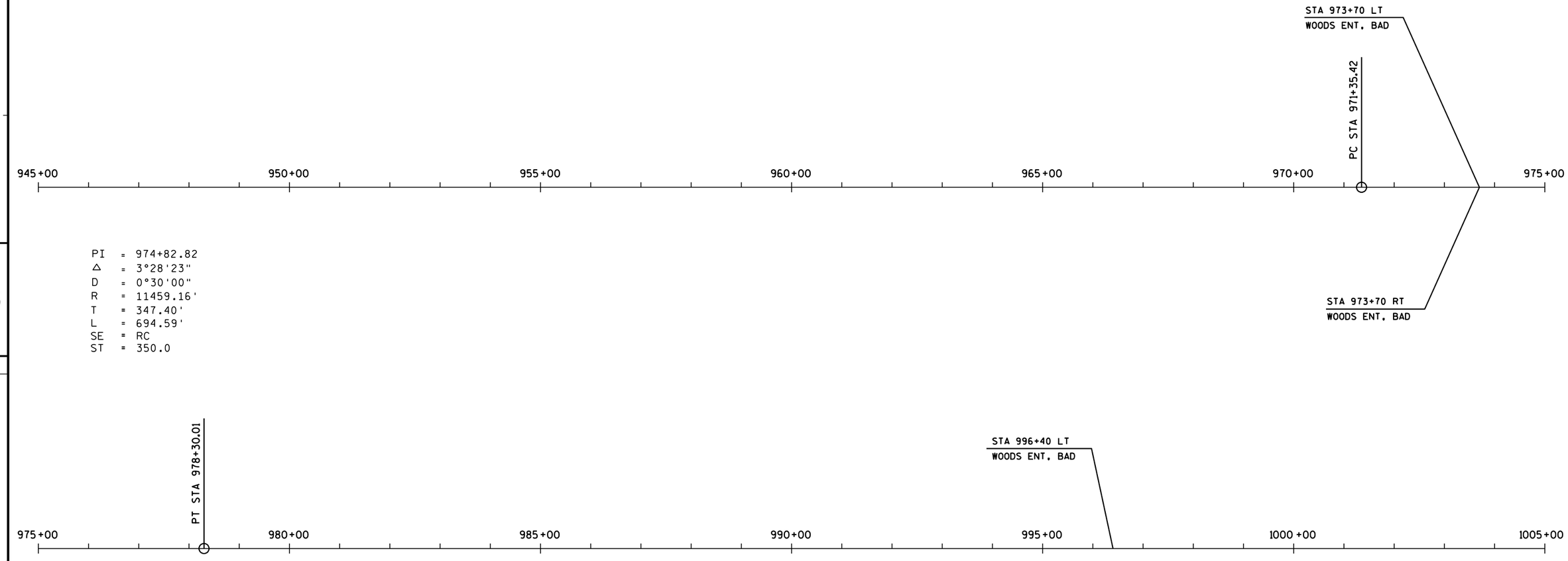
PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY:LANGLADE	LINE DIAGRAM STA 825+00 - STA 885+00	SHEET	E

FILE NAME : N:\pds\project_id\9015-12-30_70_STH_64_LincolnCoLine-Antigo\Cadds\050403_ld.dgn PLOT DATE : 28-JAN-2014 06:56 PLOT BY : dotjvo PLOT NAME : PLOT SCALE : 200:1



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	LINE DIAGRAM STA 885+00 - STA 945+00	SHEET	E



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PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	LINE DIAGRAM STA 945+00 - STA 1005+00	SHEET	E

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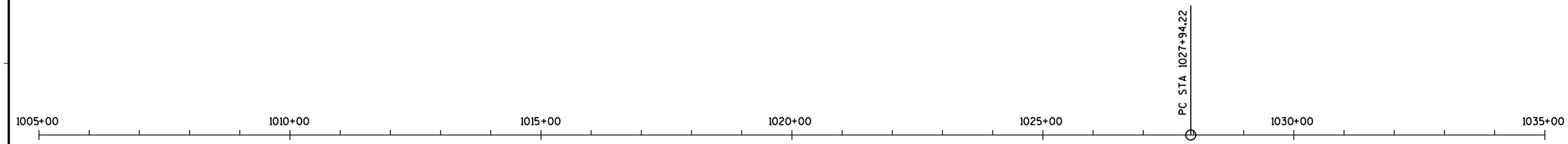
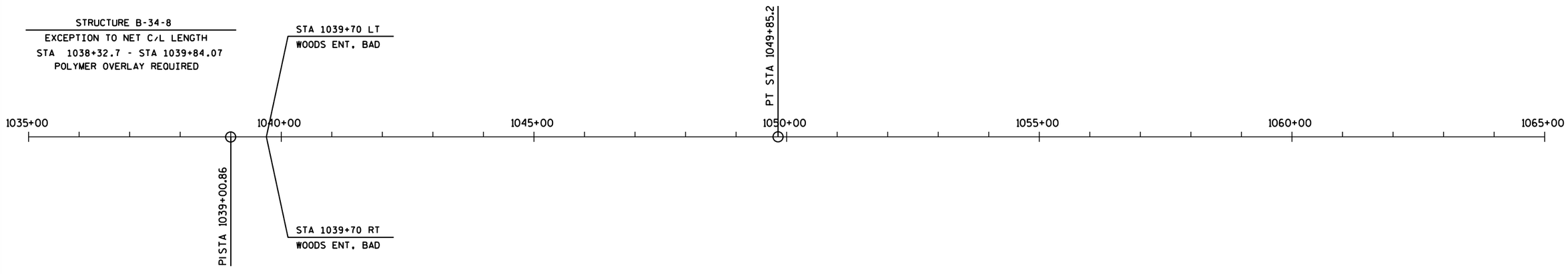
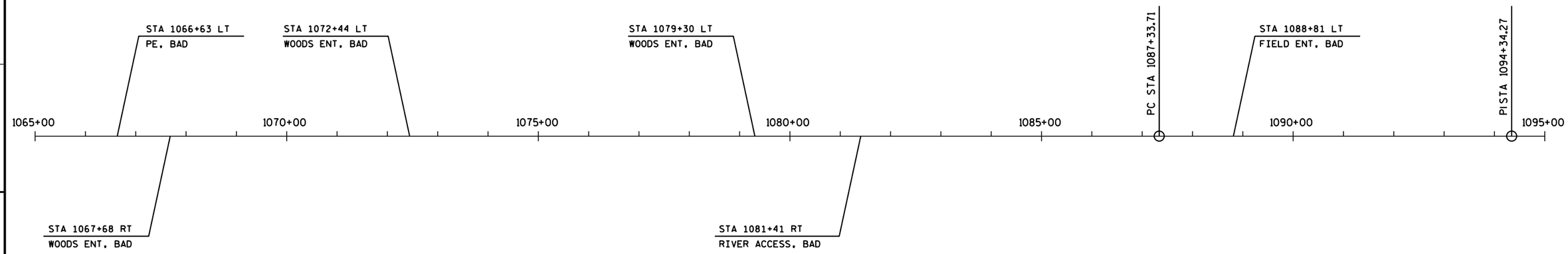


PI = 1039+00.86
△ = 19°54'05"
D = 00°54'30"
R = 6307.79'
T = 1106.64'
L = 2190.98'
SE = 0.025%

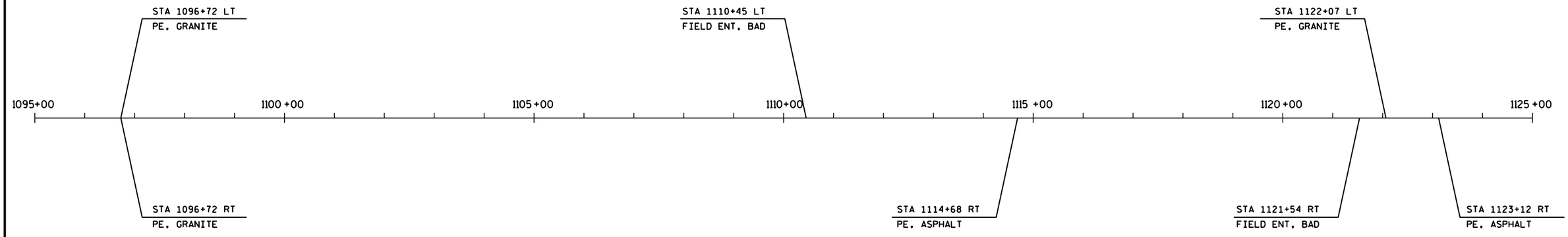


PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	LINE DIAGRAM STA 1005+00 - STA 1065+00	SHEET	E

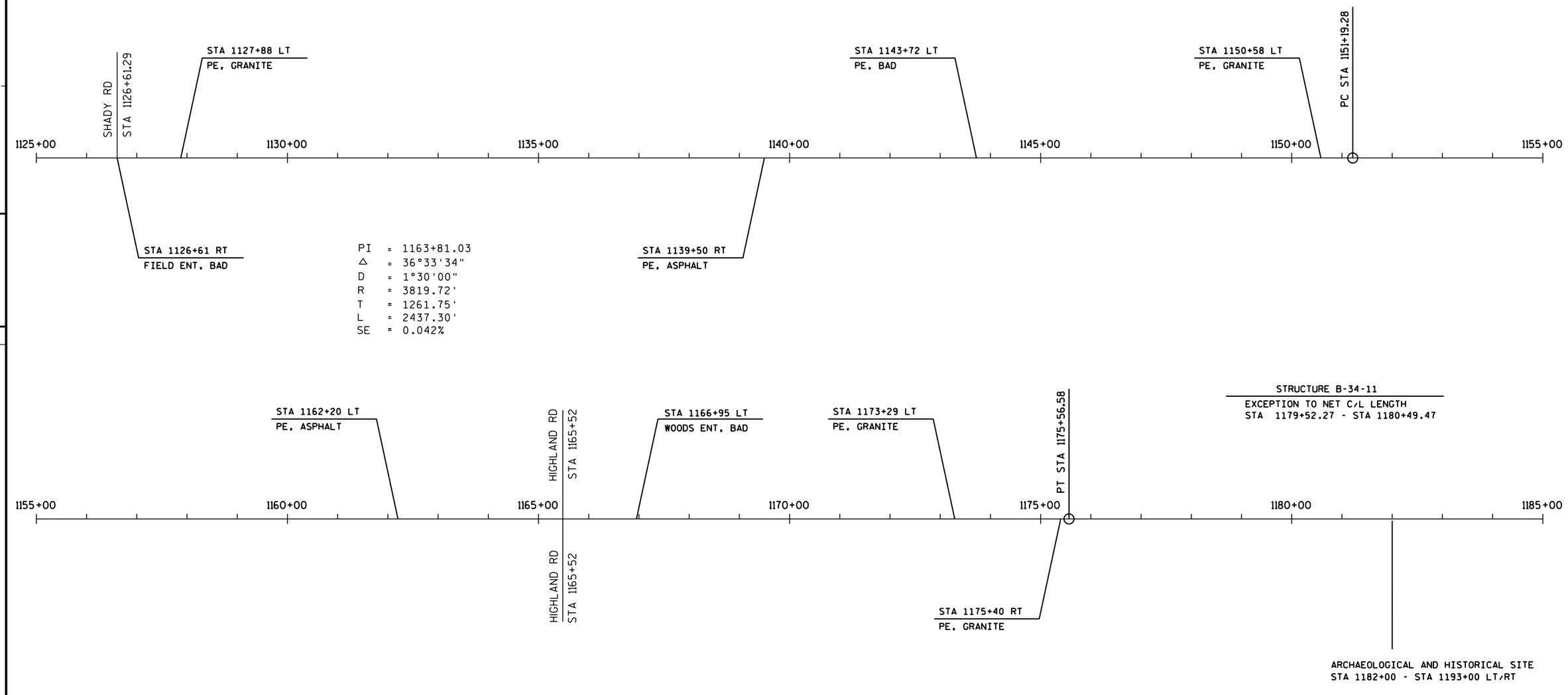
STRUCTURE B-34-5
EXCEPTION TO NET C/L LENGTH
STA 1084+14.07 - STA 1085+06.47



PI = 1090+84.97
△ = 10°30'30"
D = 1°30'00"
R = 3819.72'
T = 351.26'
L = 700.56'
SE = 0.042%



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	LINE DIAGRAM STA 1065+00 - STA 1125+00	SHEET	E



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	LINE DIAGRAM STA 1125+00 - STA 1185+00	SHEET	E

PI = 1212+97.89
Δ = 32°43'46"
D = 3°45'00"
R = 1527.89'
T = 448.66'
L = 872.79'
SE = 0.06%

ARCHAEOLOGICAL AND HISTORICAL SITE
STA 1182+00 - STA 1193+00 LT/RT

STA 1188+07 LT
PE, BAD

STA 1197+58 LT
PE, ASPHALT

ACKLEY RD
STA 1196+72

STA 1199+16 LT
PE, GRANITE

STA 1199+69 LT
PE, GRANITE

REMOVING GUARDRAIL REQUIRED
STA 1202+73 RT - STA 1205+73 RT 300'

GUARDRAIL and EAT REQUIRED
STA 1202+59.95 RT - STA 1205+91.14 RT

PC STA 1208+48.93

PI STA 1212+97.59

1185+00 1190+00 1195+00 1200+00 1205+00 1210+00 1215+00

STA 1195+99 RT
PE, GRANITE

STA 1211+30 RT
PE, GRANITE

PT STA 1217+21.72

STA 1216+58 LT
PE, GRANITE

STA 1217+11 LT
PE, GRANITE

STA 1223+45 LT
PE, BAD

STA 1229+78 LT
FIELD ENT, BAD

STA 1229+78 LT
FIELD ENT, BAD

1215+00 1220+00 1225+00 1230+00 1235+00 1240+00 1245+00

STA 1216+06 RT
PE, GRANITE

STA 1220+81 RT
PE, GRANITE

STA 1222+92 RT
PE, BAD

STA 1229+78 RT
FIELD ENT, BAD

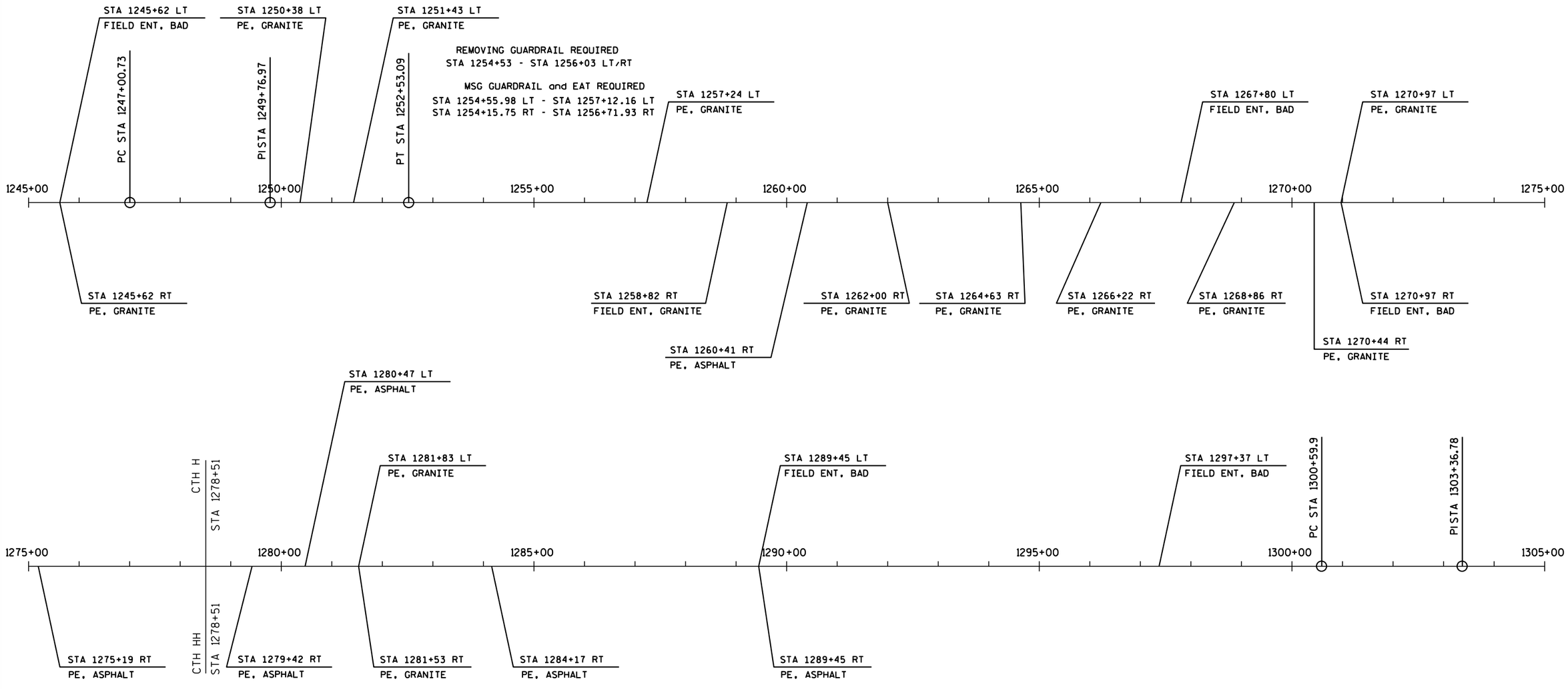
STA 1234+01 RT
PE, ASPHALT

STA 1235+59 RT
PE, GRANITE

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	LINE DIAGRAM STA 1185+00 - STA 1245+00	SHEET	E

FILE NAME : N:\pds\project_id\9015-12-30_70_STH_64_LincolnCoLine-Antigo\Cadds\050409_ld.dgn PLOT DATE : 28-JAN-2014 06:56 PLOT BY : dotjvo PLOT NAME : PLOT SCALE : 200:1

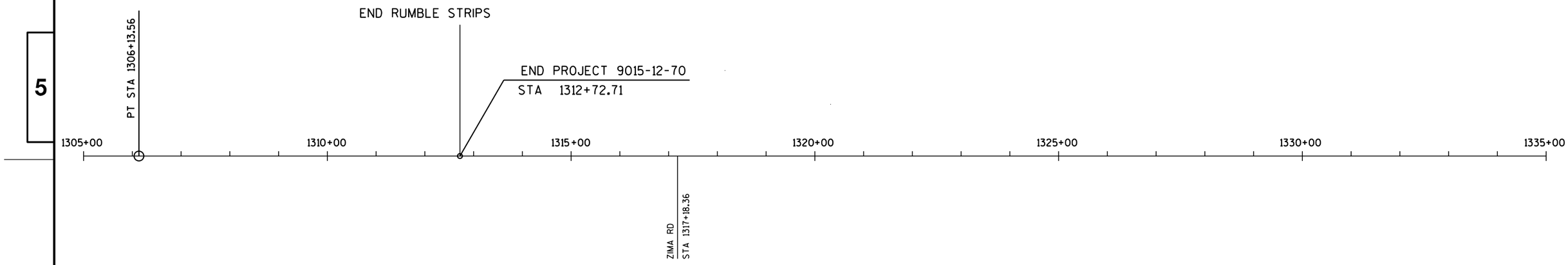
PI = 1249+76.97
△ = 02°45'43"
D = 0°30'00"
R = 11459.16'
T = 276.23'
L = 552.36'
SE = NC



PI = 1303+36.78
△ = 02°46'06"
D = 0°30'00"
R = 11459.16'
T = 276.88'
L = 553.66'
SE = RC

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	LINE DIAGRAM STA 1245+00 - STA 1305+00	SHEET	E

FILE NAME : N:\pds\project_id\9015-12-30_70_STH_64_LincolnCoLine-Antigo\Cadds\050410_ld.dgn PLOT DATE : 28-JAN-2014 06:56 PLOT BY : dotjvo PLOT NAME : PLOT SCALE : 200:1



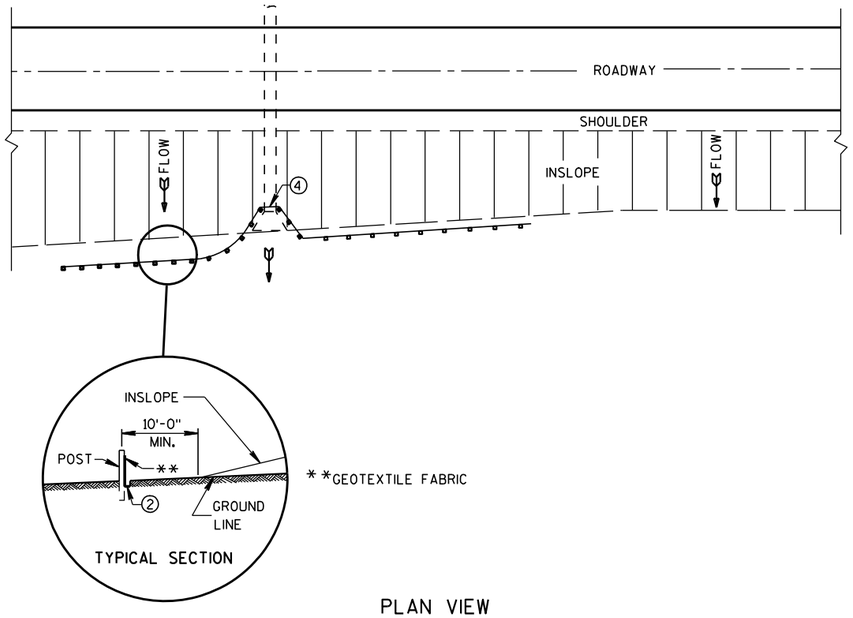
5

5

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	LINE DIAGRAM STA 1305+00 - STA 1335+00	SHEET	E

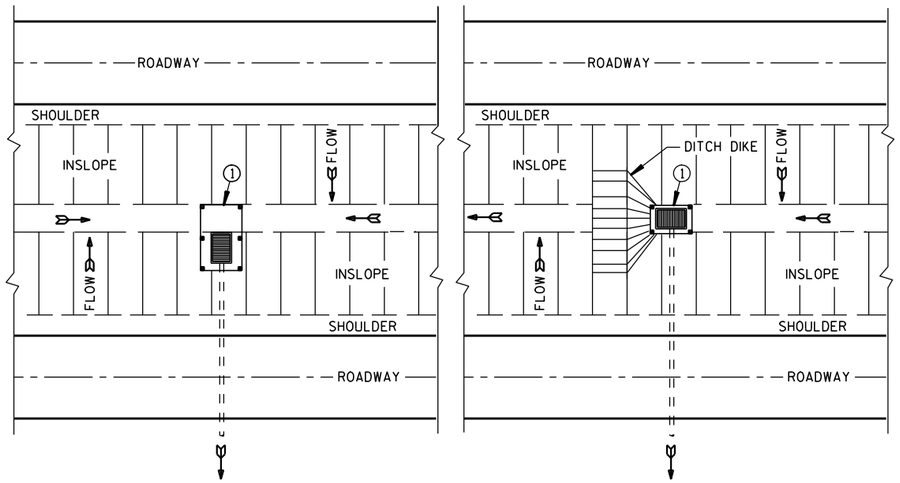
Standard Detail Drawing List

08E09-06	SILT FENCE
09G02-03C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B07-13A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B29-01	SAFETY EDGE
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D33-03	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS



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.

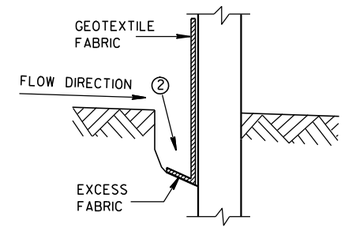
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

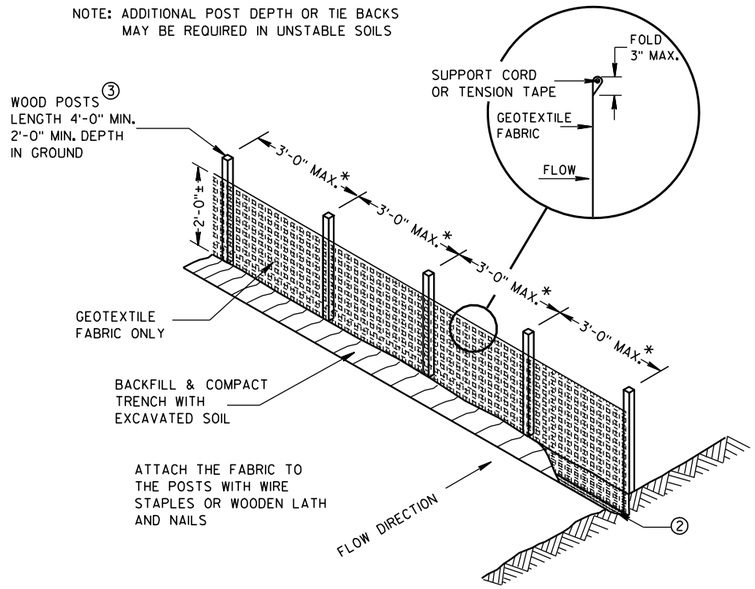
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

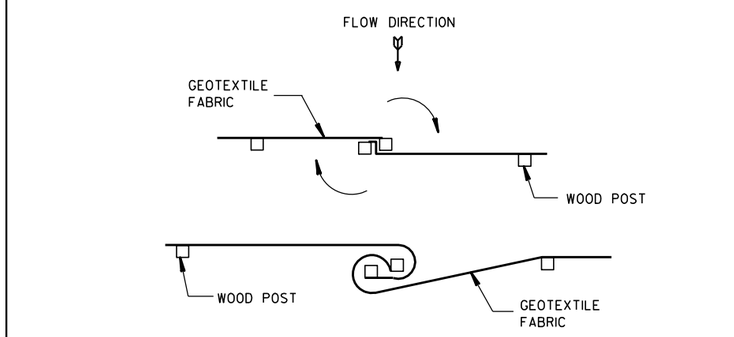
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



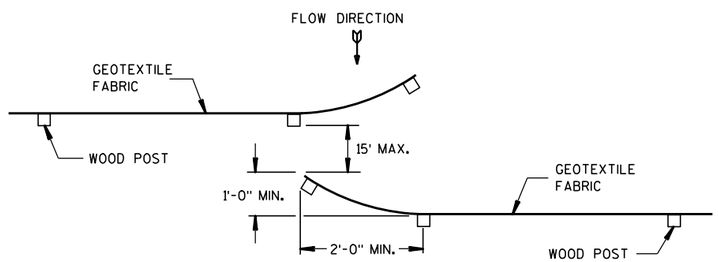
TRENCH DETAIL



SILT FENCE

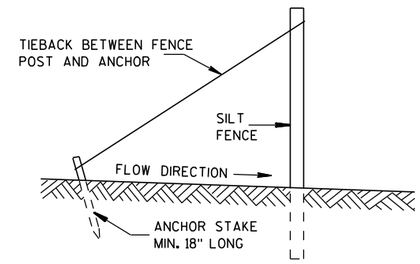


TWIST METHOD



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

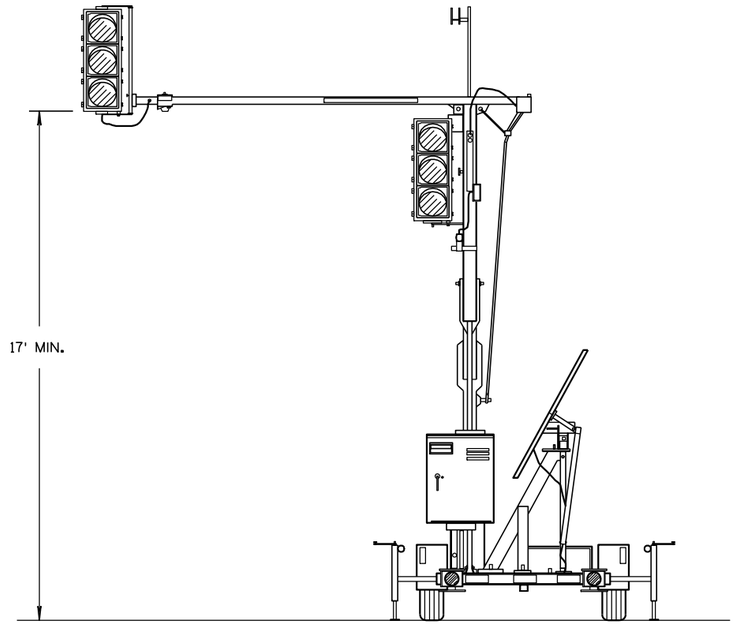
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6

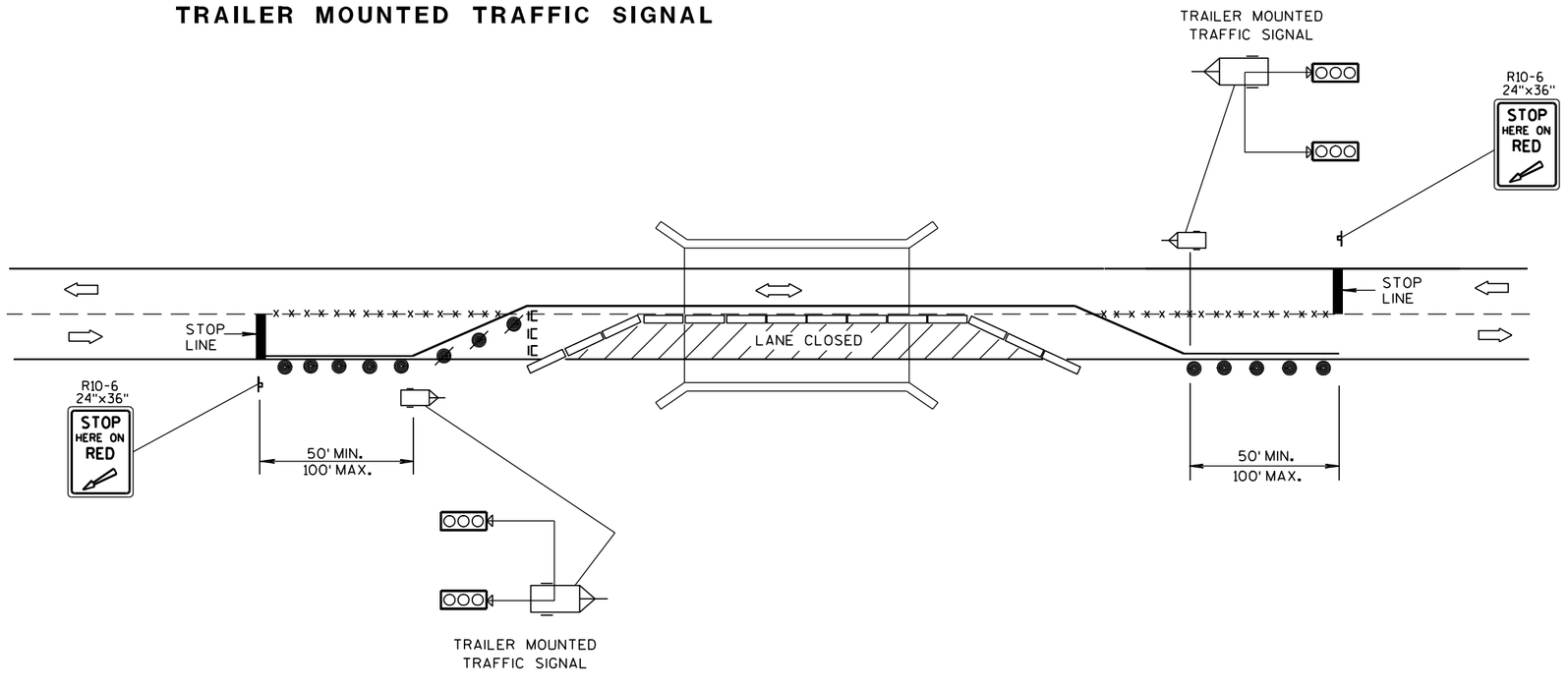


TRAILER MOUNTED TRAFFIC SIGNAL

GENERAL NOTES

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

SIGNING, PAVEMENT MARKING AND LANE CONTROL REQUIREMENTS SHALL CONFORM TO STANDARD DETAIL DRAWING 15 D 33.



TYPICAL TRAILER MOUNTED TRAFFIC SIGNAL LOCATION

LEGEND

- POST MOUNTED SIGN
- REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH SIGN
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- TEMPORARY PRECAST CONCRETE BARRIER
- TRAILER MOUNTED TRAFFIC SIGNAL
- DIRECTION OF TRAFFIC FLOW

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/2/2011 — DATE

/S/ Thomas J. Gosling — STATE ELECTRICAL ENGI

FHWA

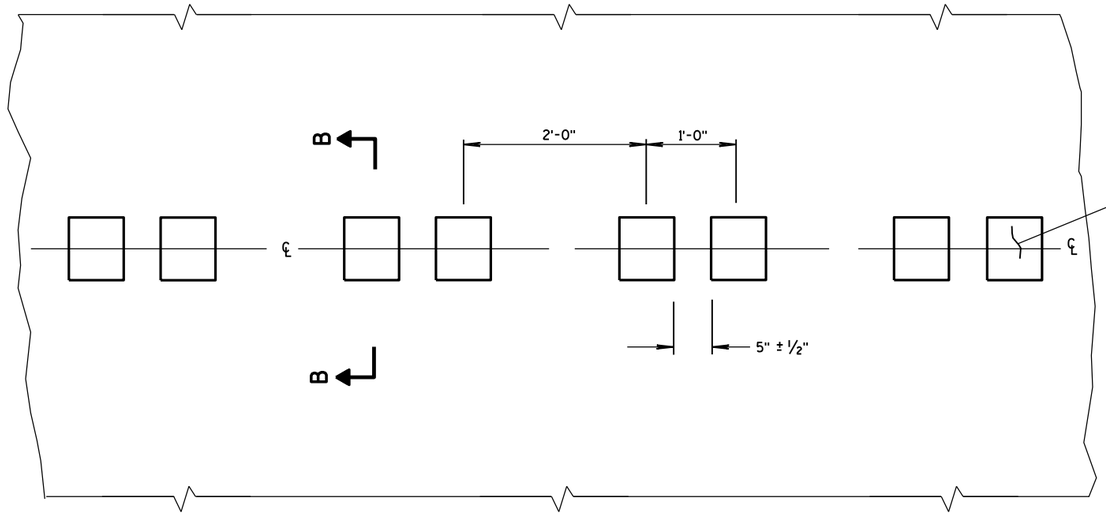
HWYS

6

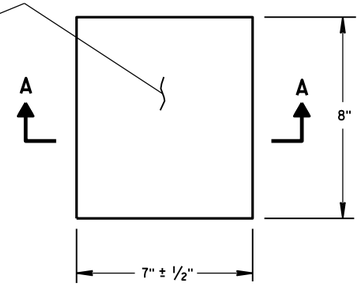
S.D.D. 9 G 2-3c

6

S.D.D. 9 G 2-3c



PLAN VIEW
CENTER LINE WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

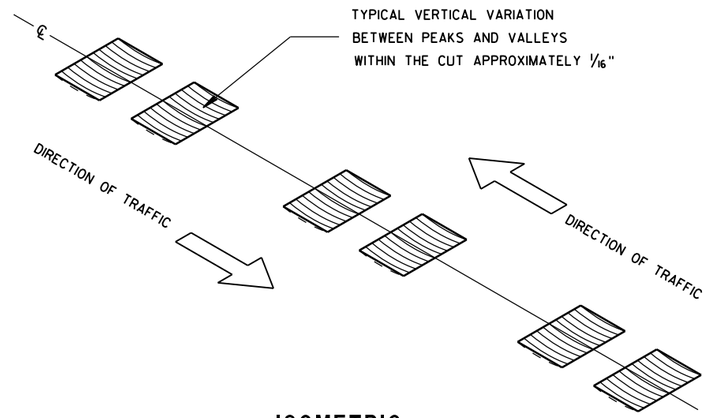
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

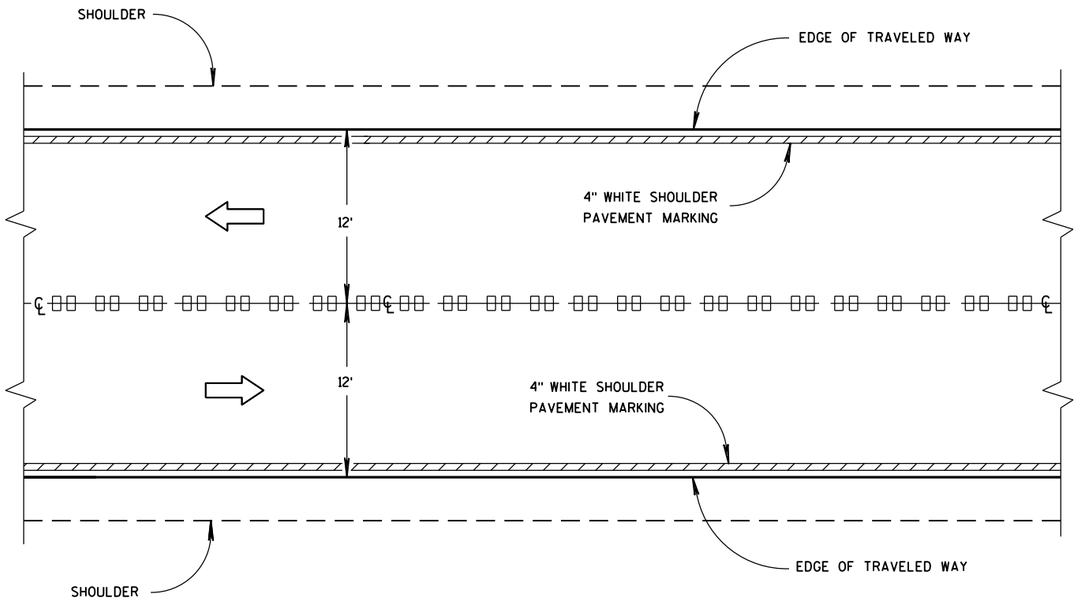
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

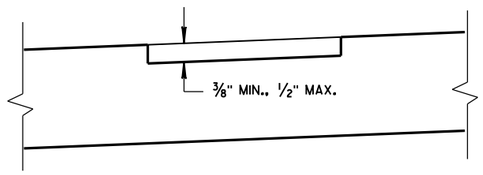
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



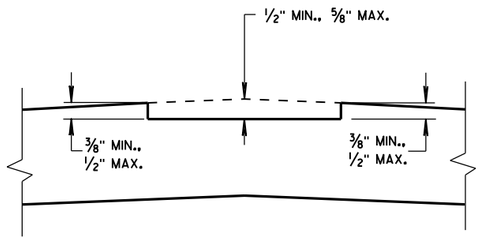
ISOMETRIC



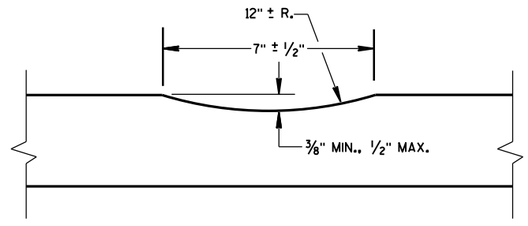
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

6

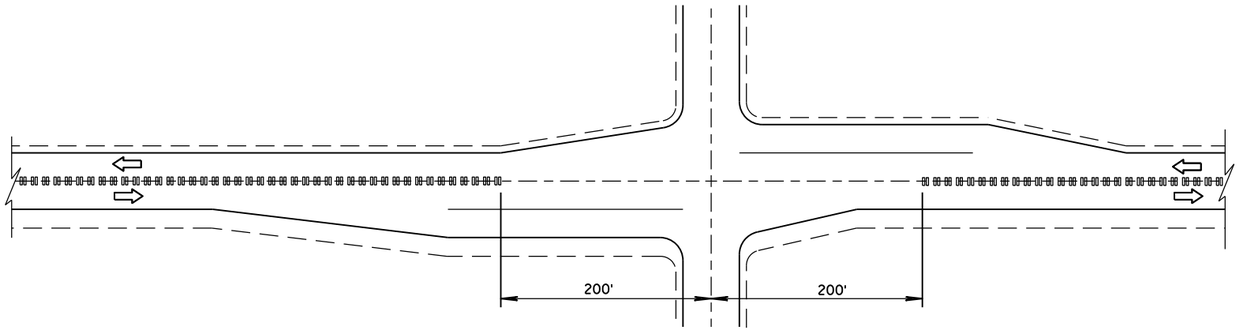
S.D.D. 13 A 11-2a

6

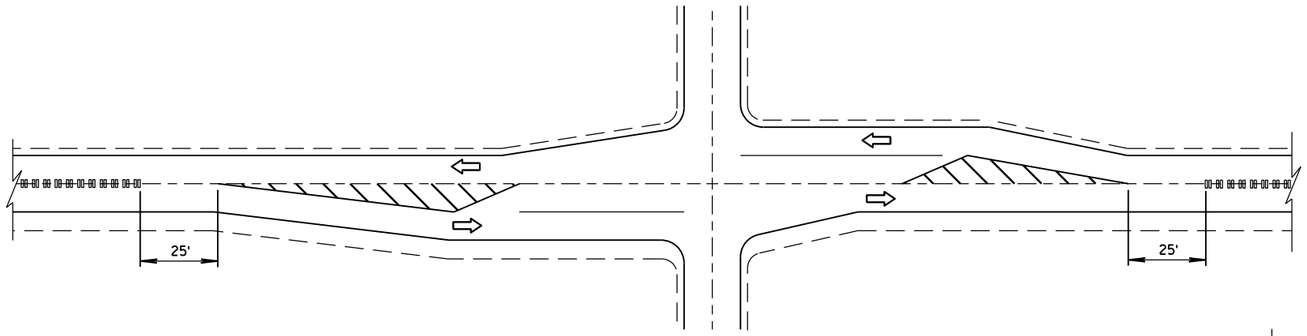
S.D.D. 13 A 11-2a

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

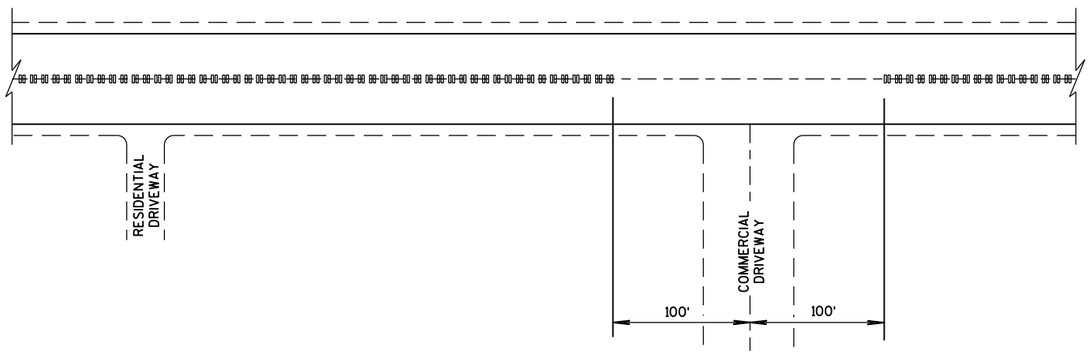
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



CENTER LINE GROOVES AT INTERSECTIONS

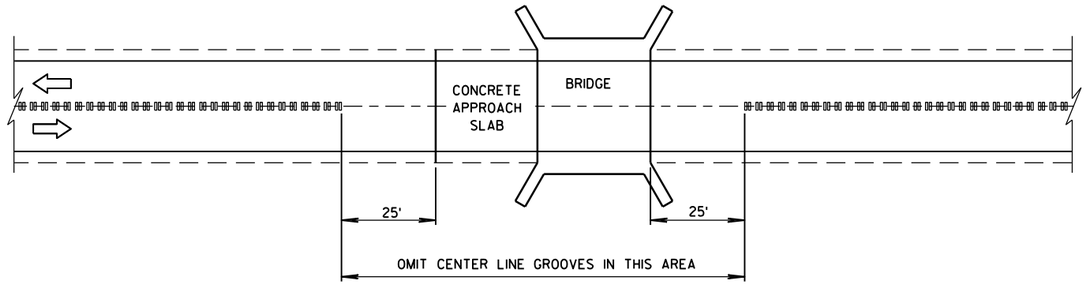


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

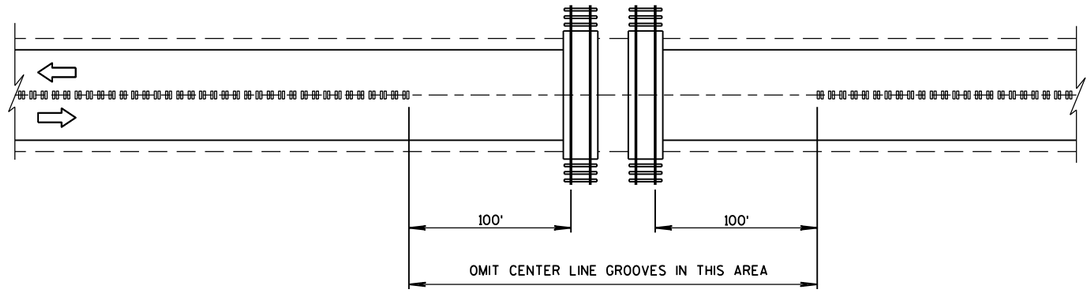


CENTER LINE GROOVES AT DRIVEWAYS (1)

(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

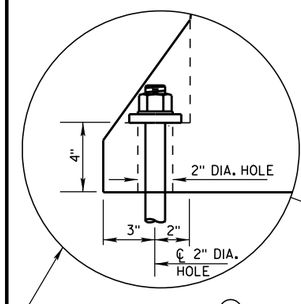
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

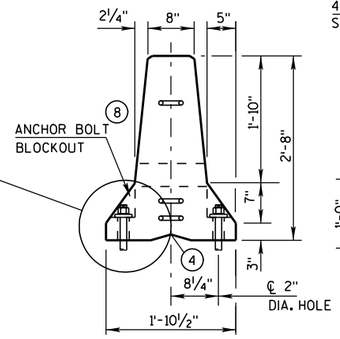
FHWA

6

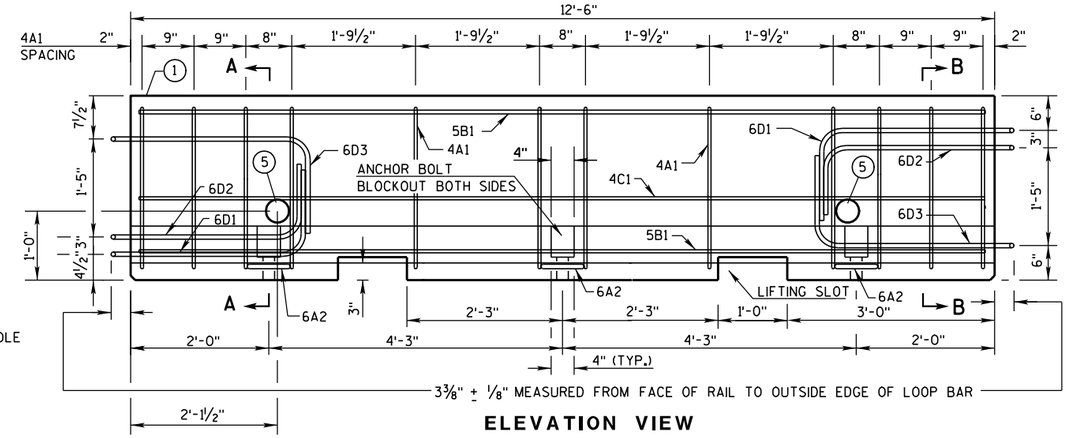
S.D.D. 13 A 11-2b



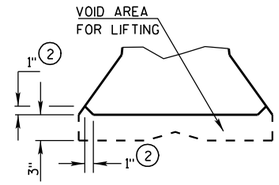
ANCHOR ON TRAFFIC SIDE (8) ONLY WHEN REQUIRED (SEE SHEET D FOR ADDITIONAL ANCHOR DETAIL)



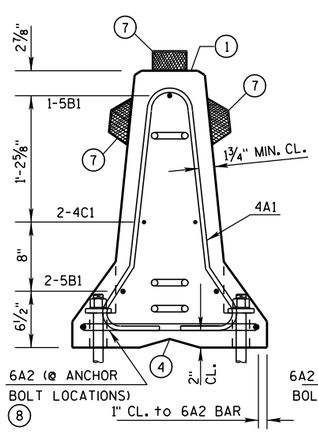
END VIEW



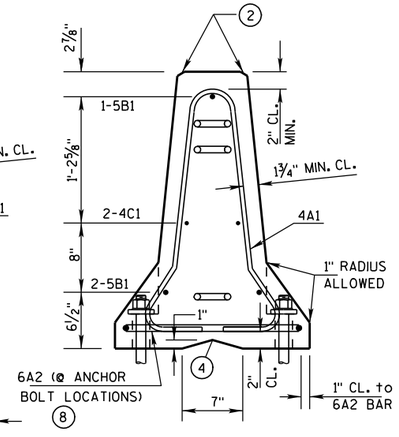
ELEVATION VIEW



DETAIL "B"
LIFTING SLOT DETAIL



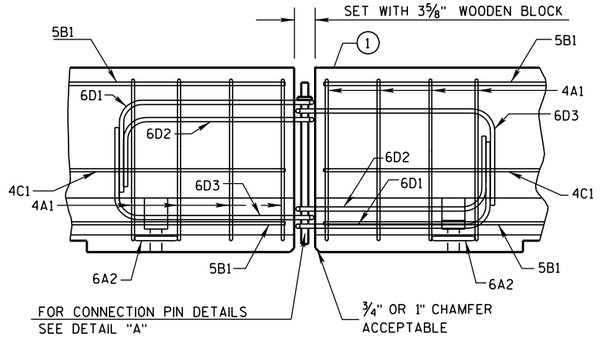
SECTION A-A
(STIRRUP PLACEMENT)



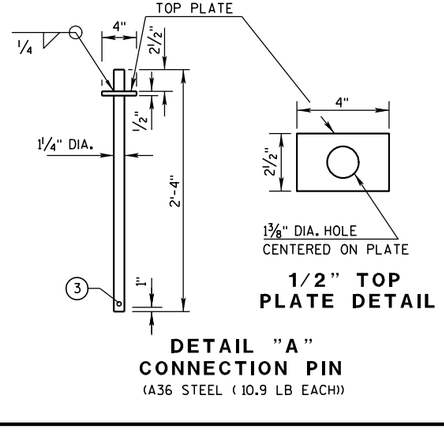
SECTION B-B
(STIRRUP PLACEMENT)

PLAN VIEW

DETAILS OF BARRIER SECTION

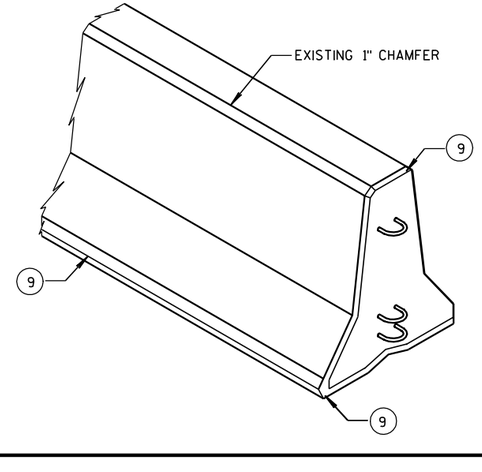


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-13(a) THRU 14B7-13(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR EPOXY ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WICBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

(8) SEE SHEET D FOR ANCHORING CRITERIA.

(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO.....T

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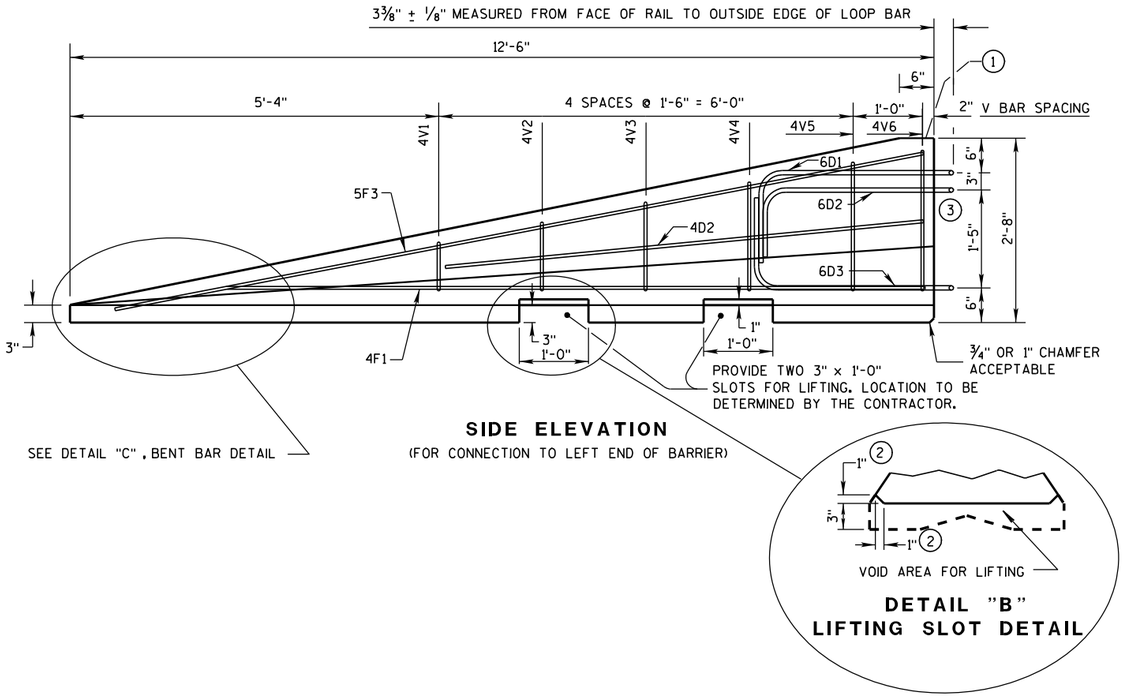
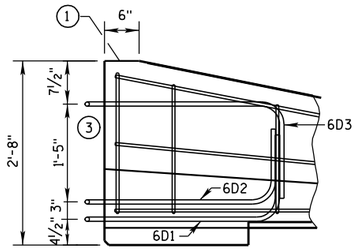
S.D.D. 14 B 7-13a



SIDE ELEVATION

(FOR CONNECTION TO LEFT END OF BARRIER)

DETAIL "B"
LIFTING SLOT DETAIL



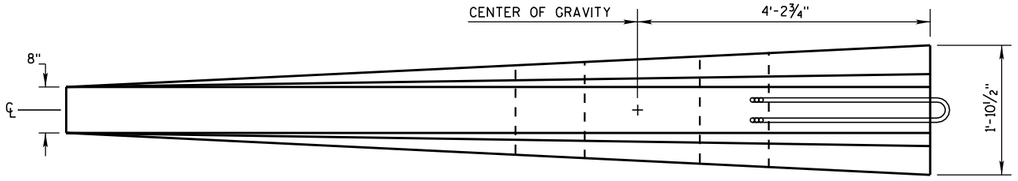
SIDE ELEVATION

LOOP BAR ASSEMBLY INVERTED FOR OPPOSITE END.

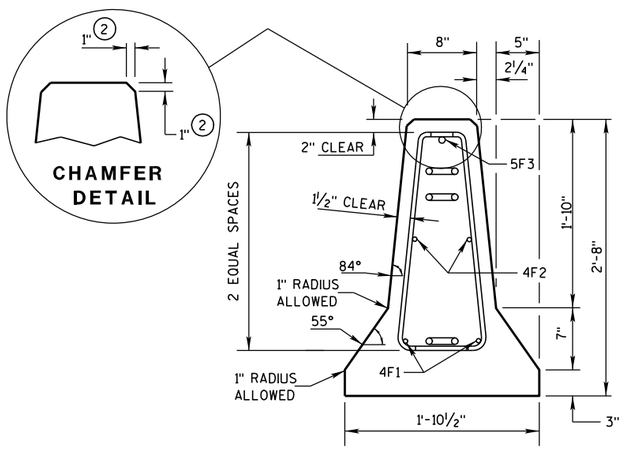
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

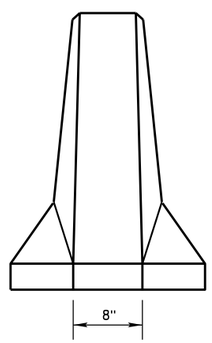
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



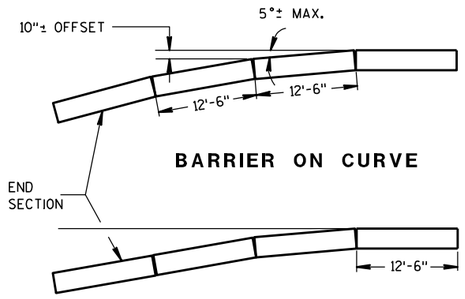
PLAN VIEW



END SECTION



FRONT ELEVATION



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

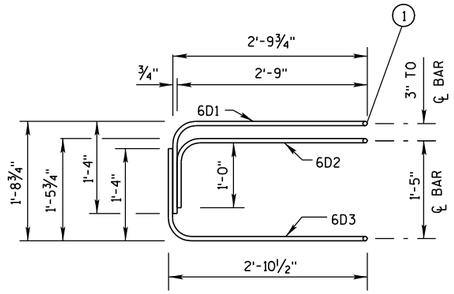
6

S.D.D. 14 B 7-13b

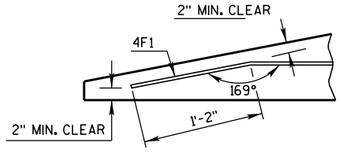
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

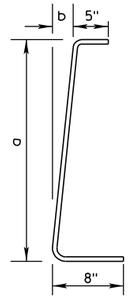
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

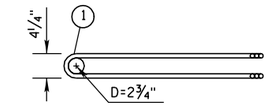
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

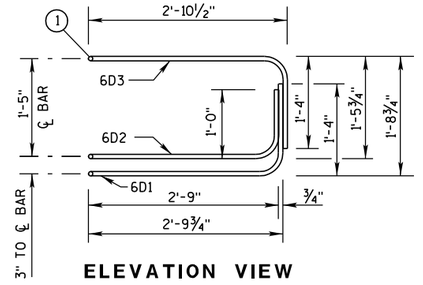
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

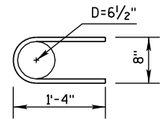
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



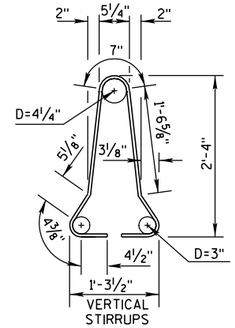
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2



4A1

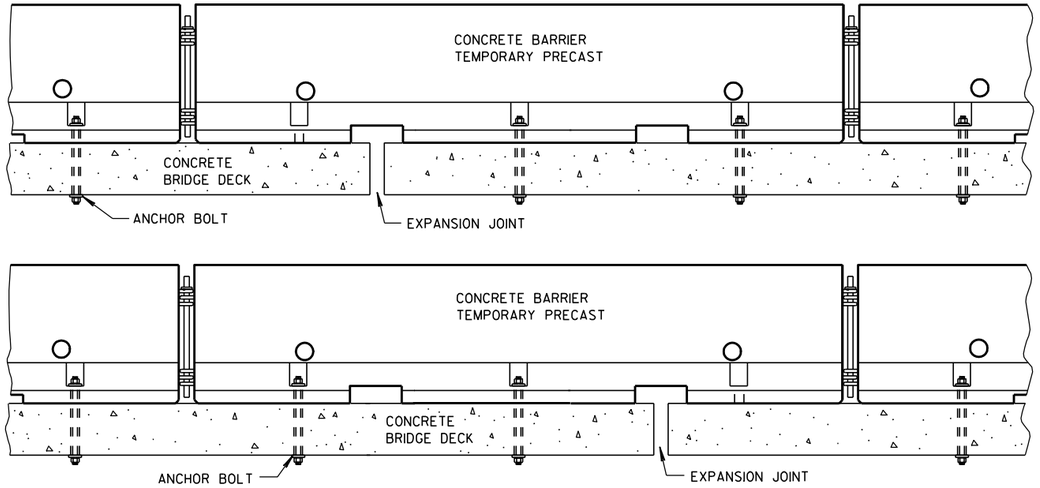
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

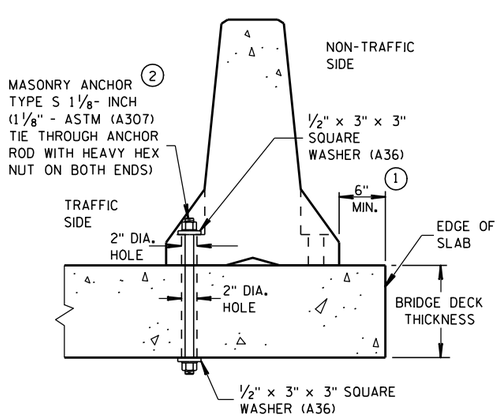
6

S.D.D. 14 B 7-13c



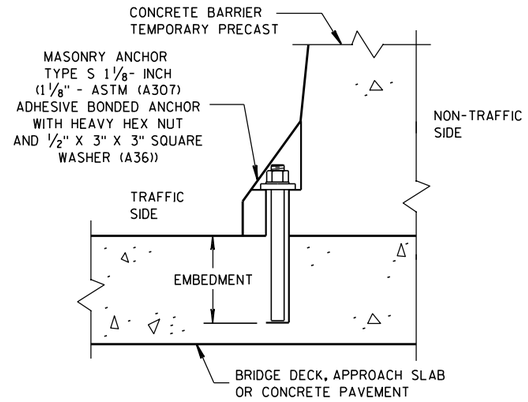
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

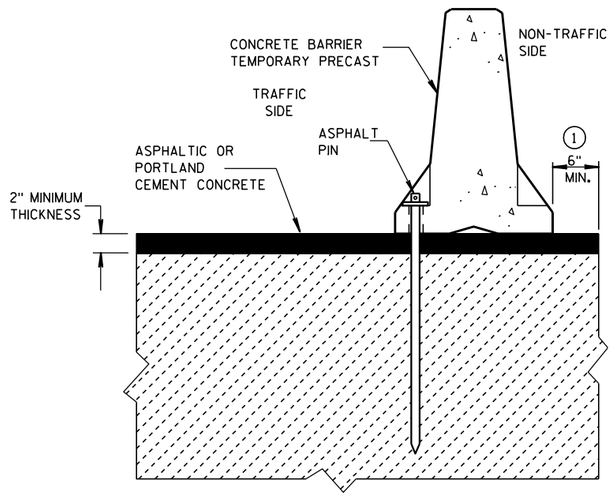
1. CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
   THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

   THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

2. ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

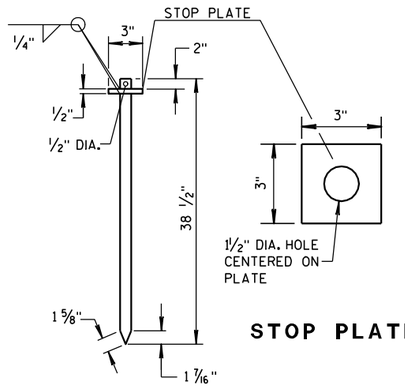
   WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

   UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

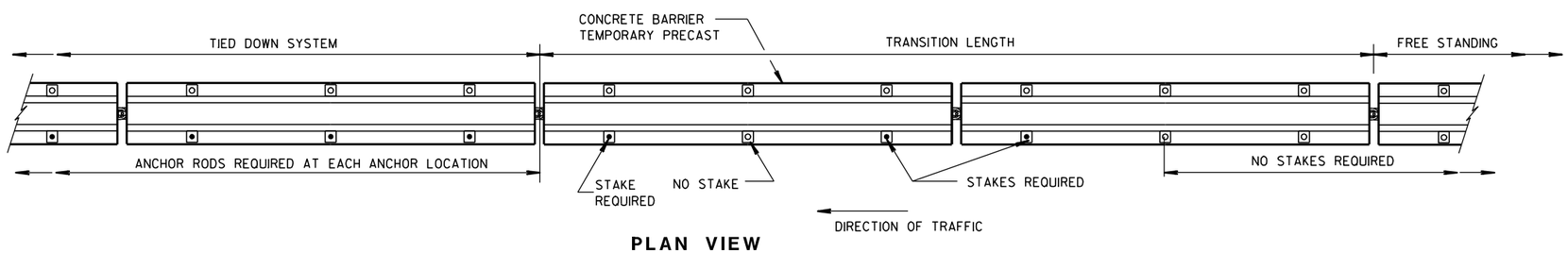
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN

(ASTM A36 STEEL)



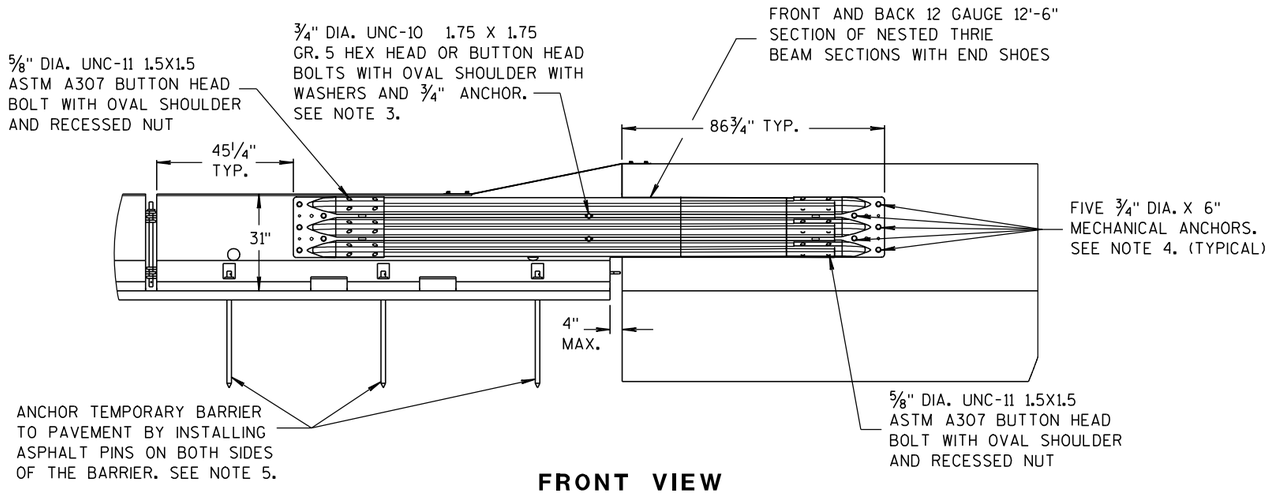
PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

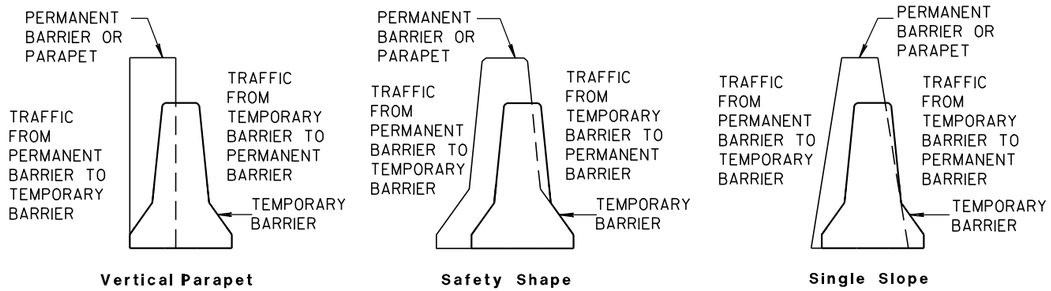
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

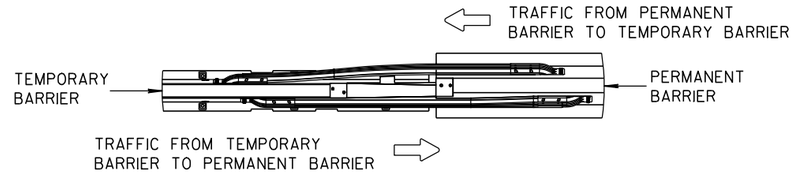


FRONT VIEW

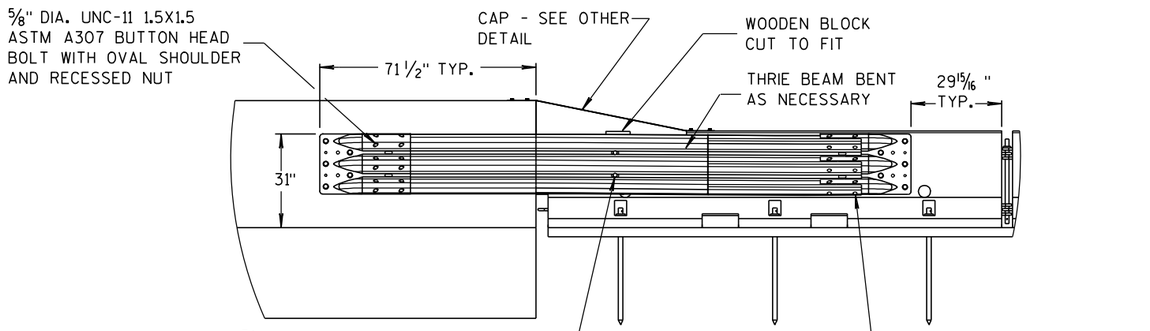
NOTES

1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15¼" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.

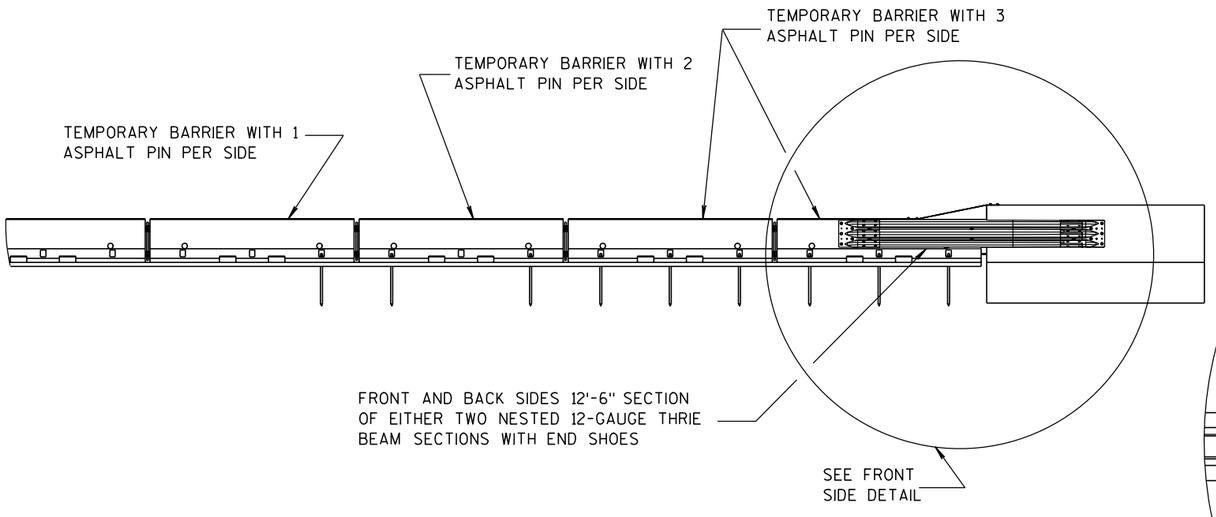




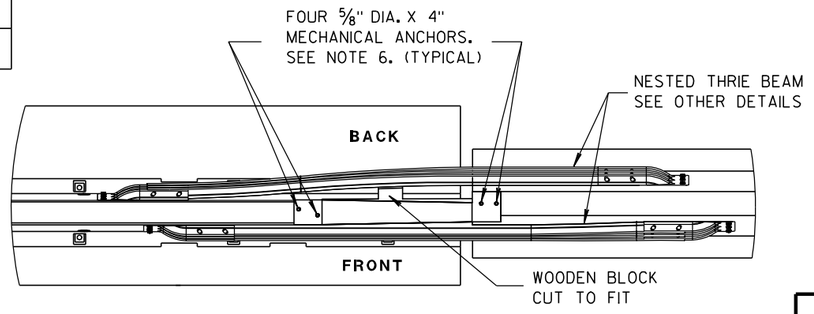
TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM



BACK VIEW



FRONT VIEW



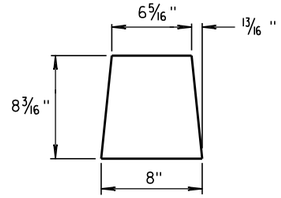
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

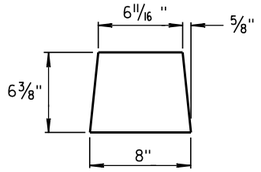
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

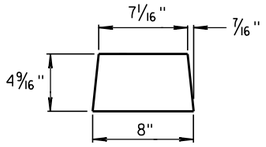
6
S.D.D. 14 B 7-13e



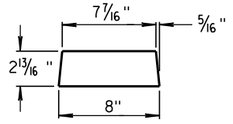
GUSSET 1



GUSSET 2

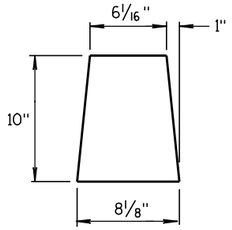


GUSSET 3

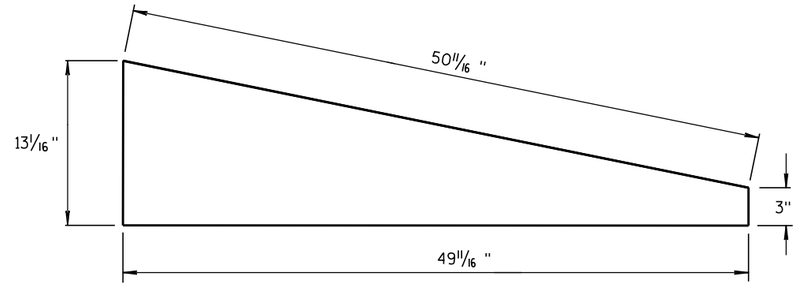


GUSSET 4

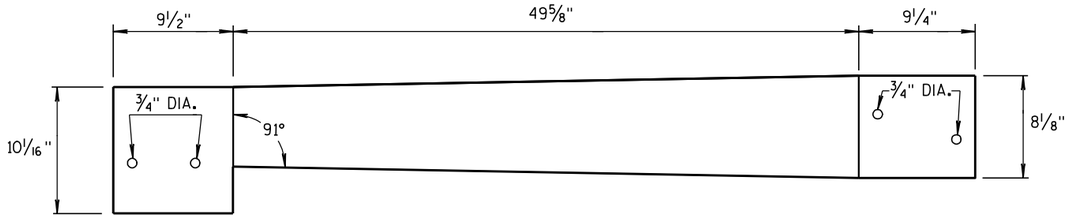
GUSSETS

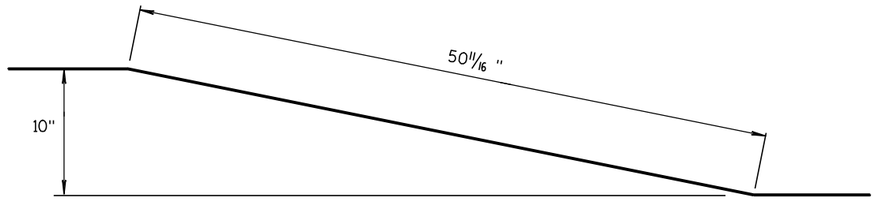


END PLATE

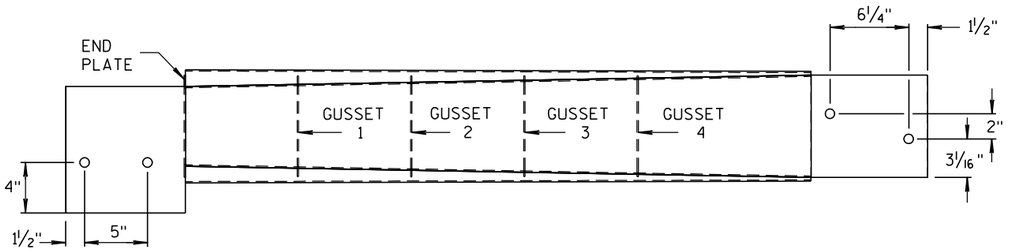


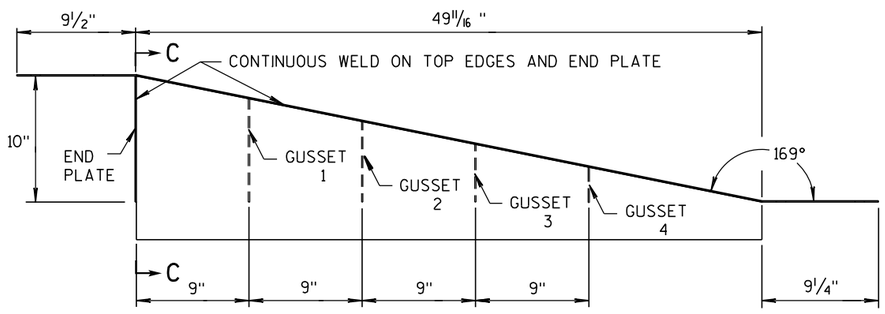
SIDE PLATE

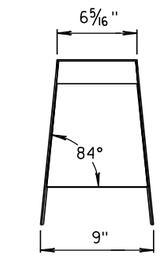




TOP PLATE







SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

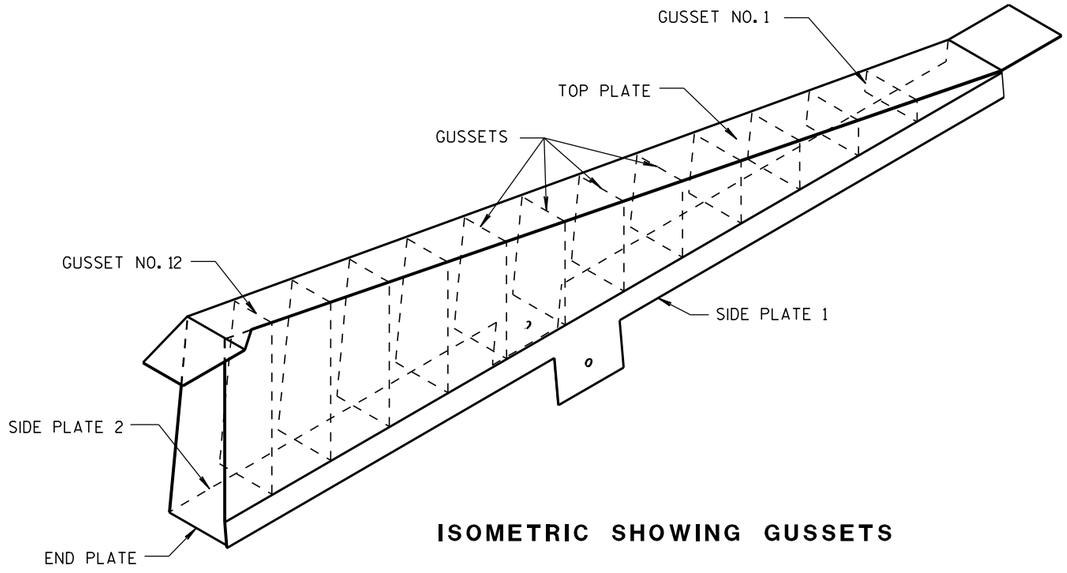
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

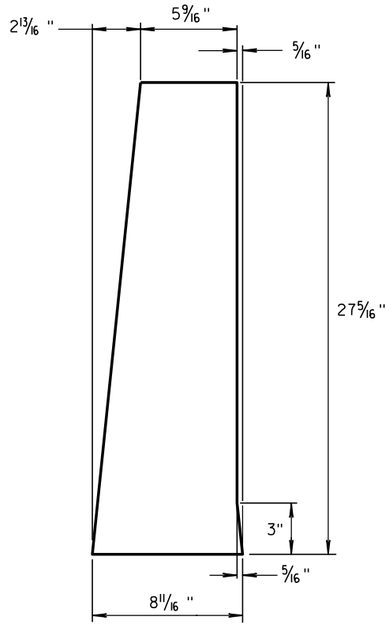
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

S.D.D. 14 B 7-13f

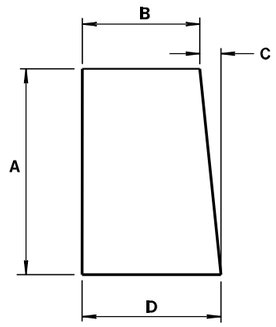


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



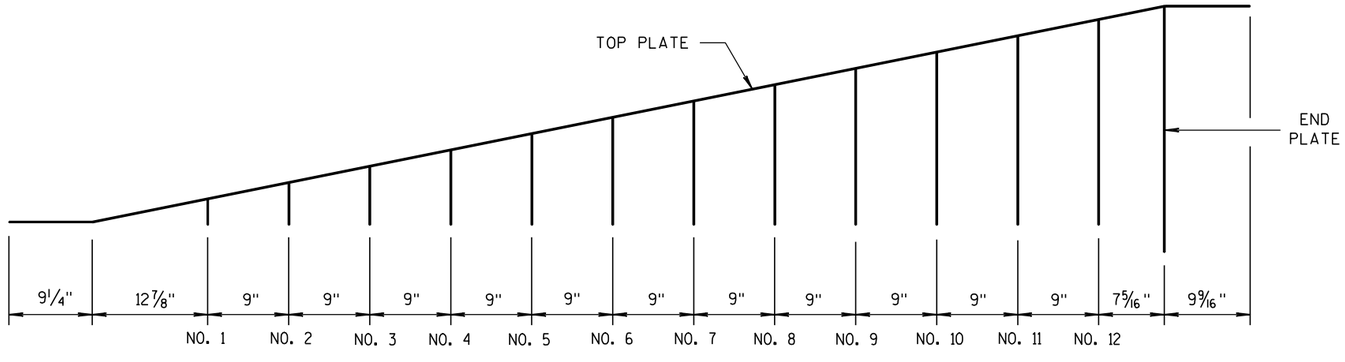
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO.....T

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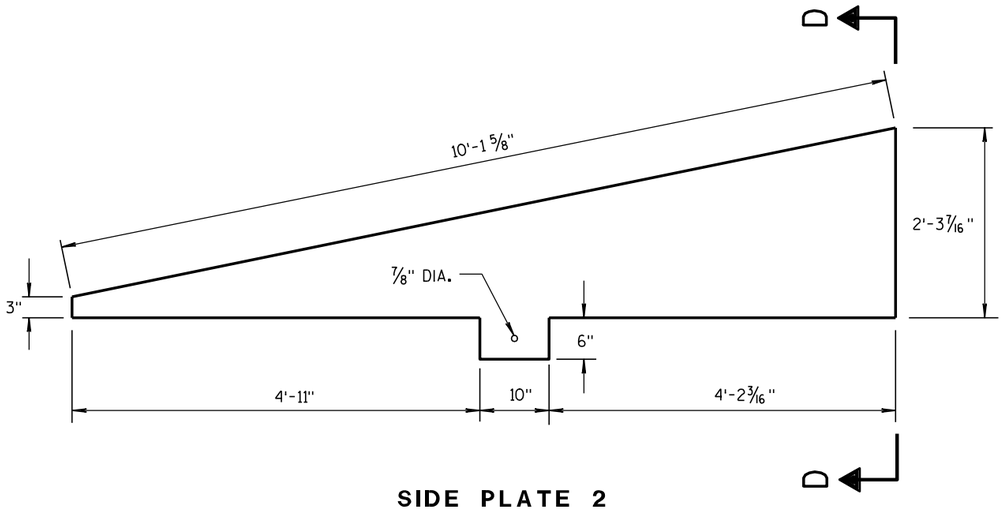
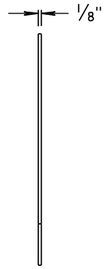
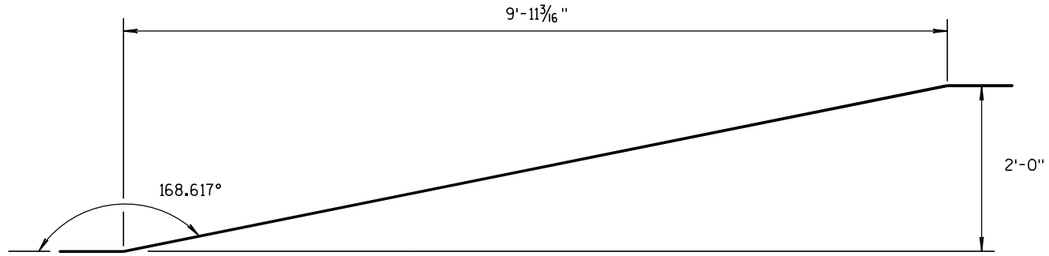


SIDE PLATE 2

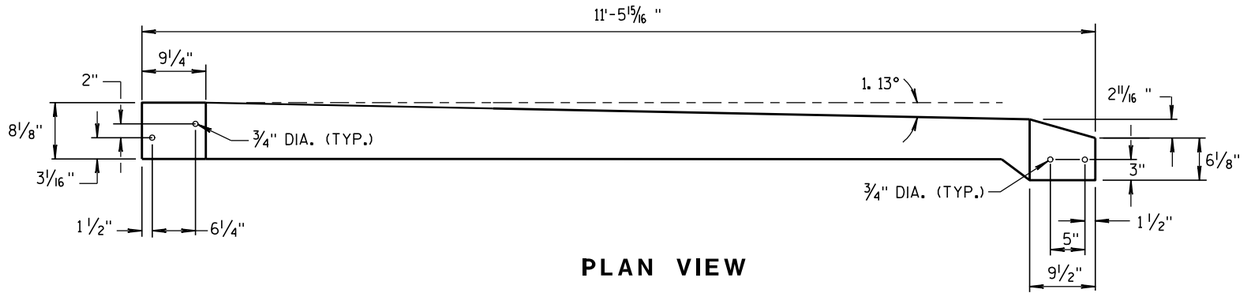


END VIEW



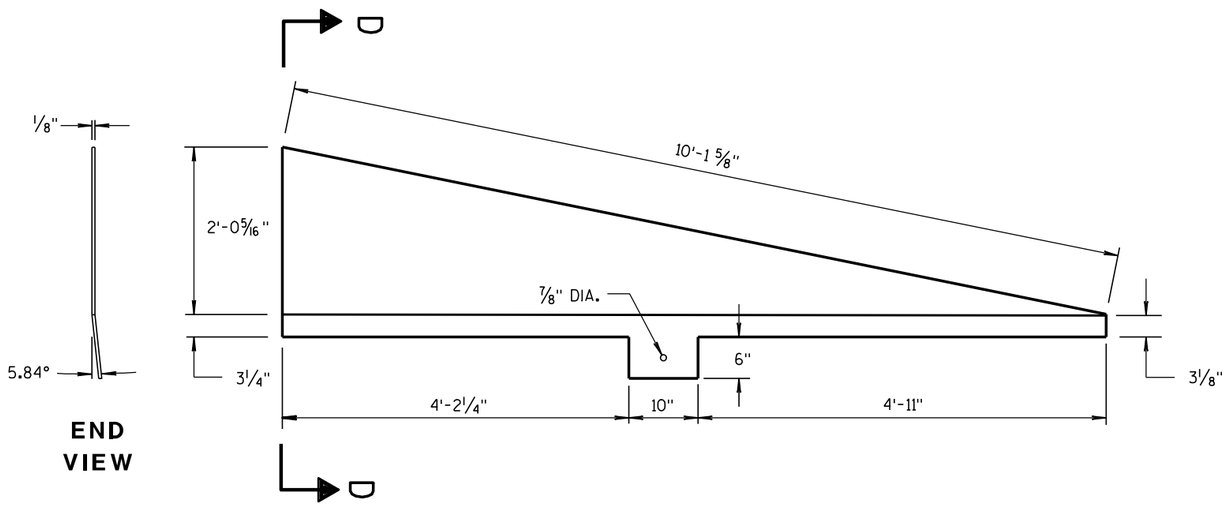
SIDE VIEW

TOP PLATE



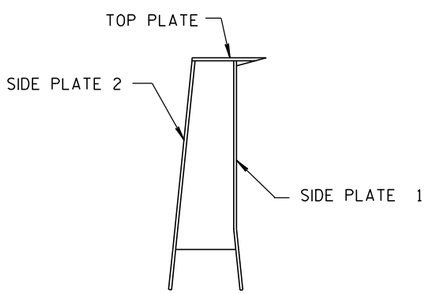
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 — DATE

/S/ Jerry H. [illegible] — ROADWAY STANDARDS ENGINEER

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FHWA

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S.D.D. 14 B 7-13h

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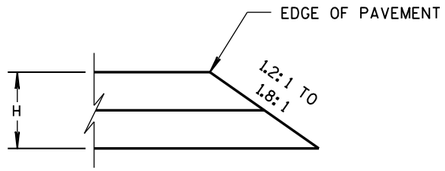
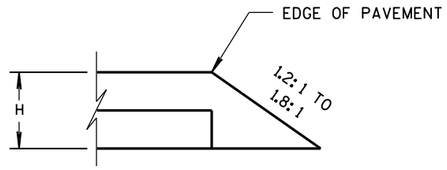
S.D.D. 14 B 7-13h



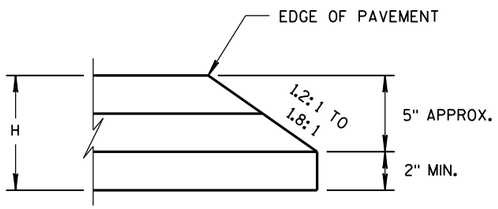
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



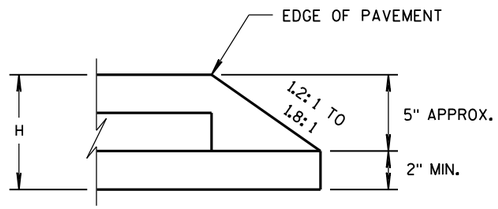
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

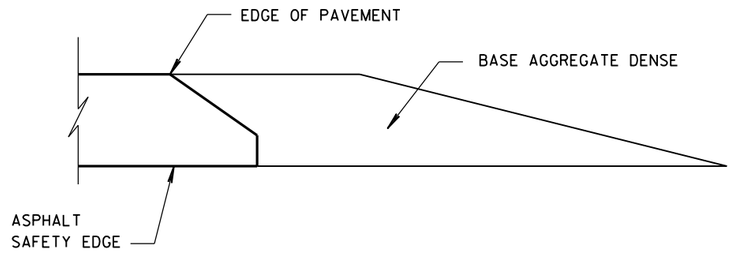
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

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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

GENERAL NOTES

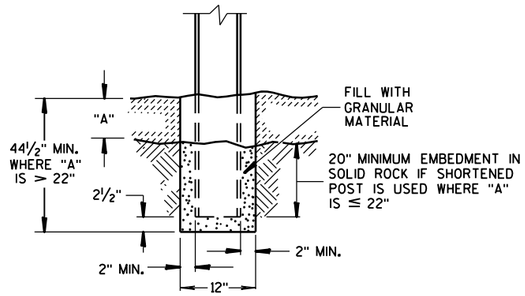
1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

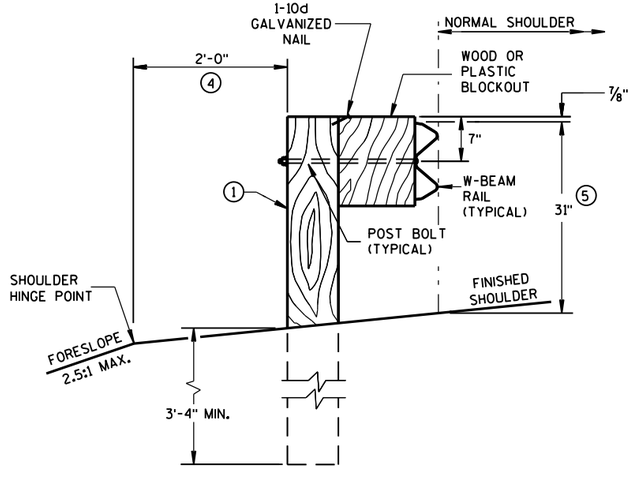
3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

4. WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

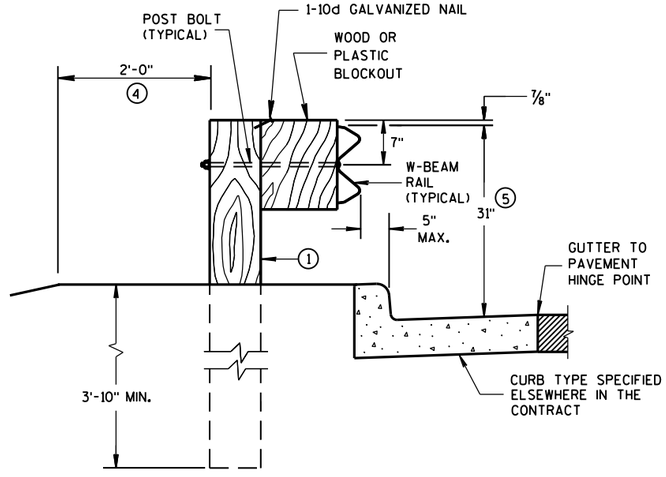


END VIEW
SETTING STEEL OR WOOD POST IN ROCK ③



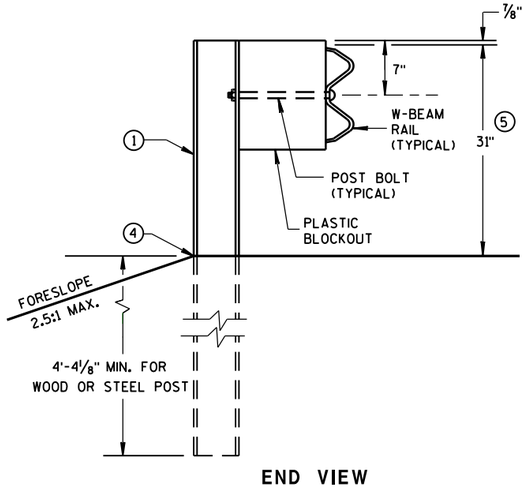
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



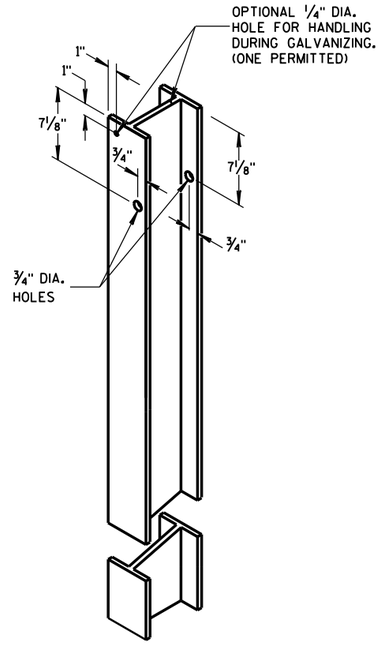
END VIEW

LOCATED ALONG A CURBED ROADWAY

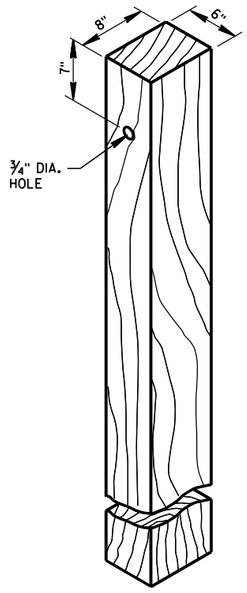


END VIEW

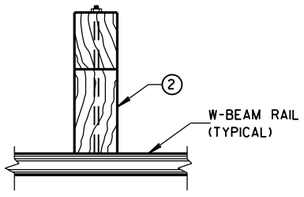
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



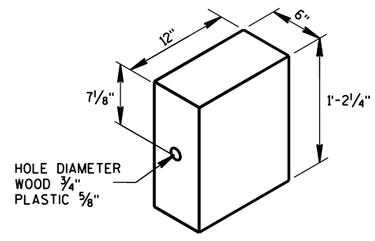
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



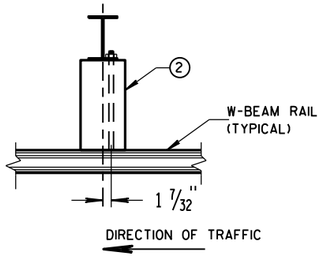
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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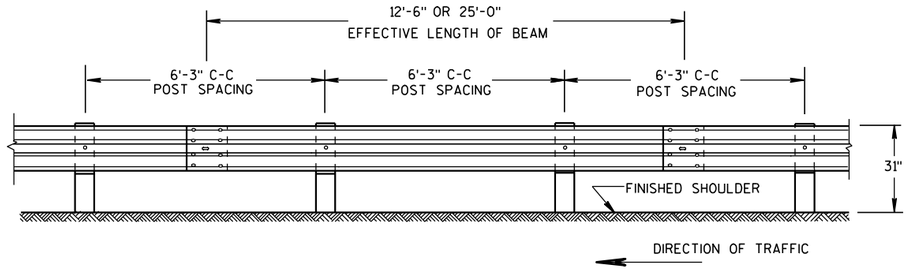
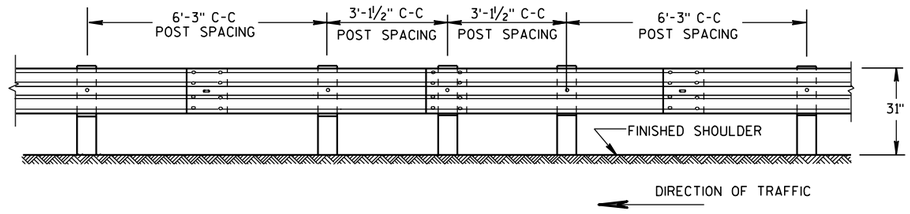
S.D.D. 14 B 42-2a



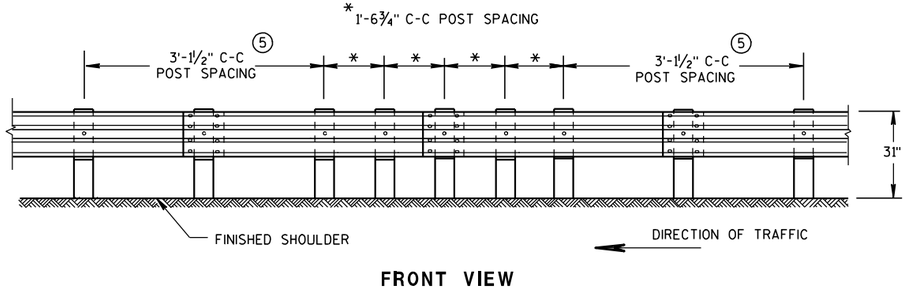
FRONT VIEW

POST SPACING STANDARD INSTALLATION



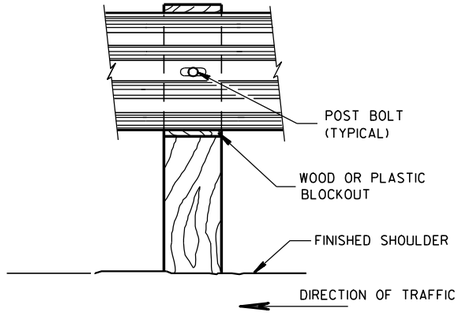
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

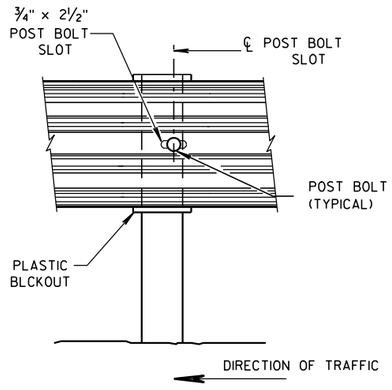


FRONT VIEW

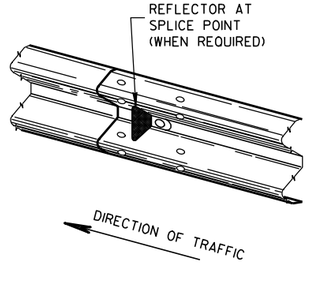
QUARTER POST SPACING (QS)

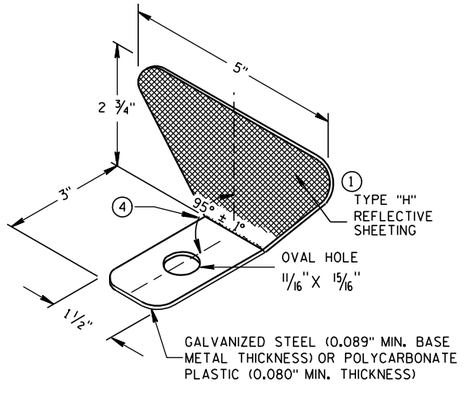


FRONT VIEW AT WOOD POST

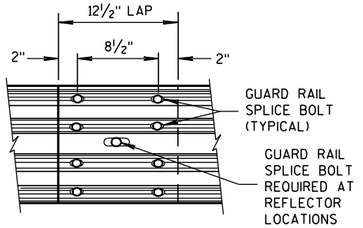


FRONT VIEW AT STEEL POST



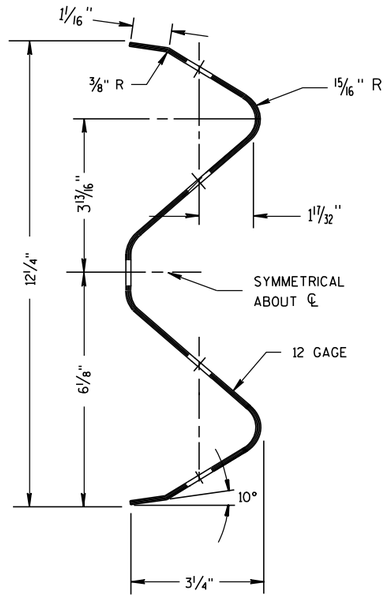


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ①



FRONT VIEW

MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL

REFLECTOR SPACING ②

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 ③ 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 ④ 2	3

GENERAL NOTES

① PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.

② DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

③ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

④ PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

⑤ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

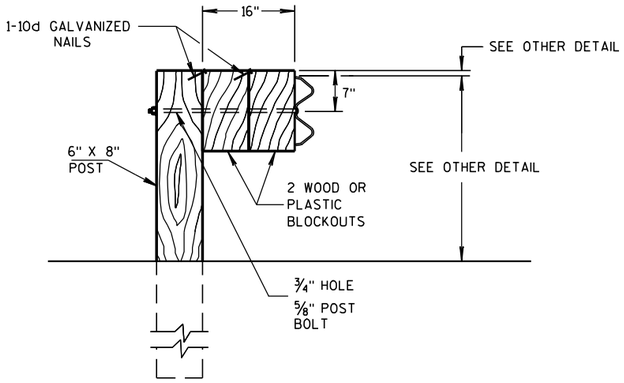
POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

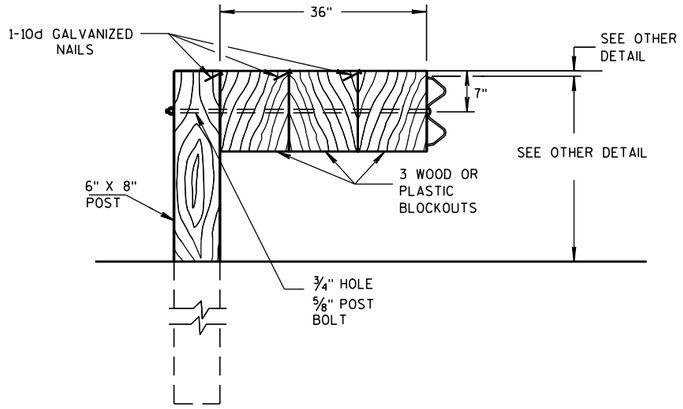
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 14 B 42-2b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

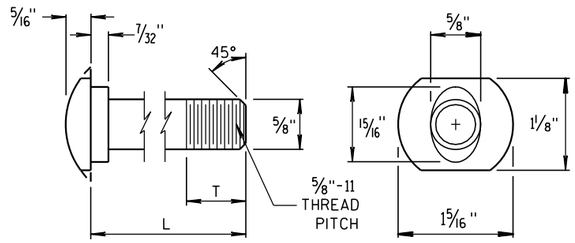


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

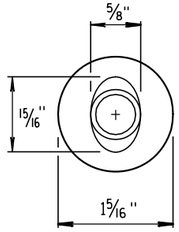
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

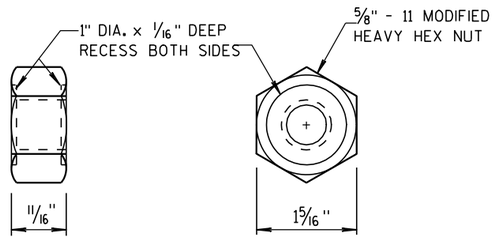


POST BOLT TABLE

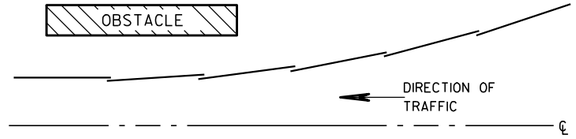
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

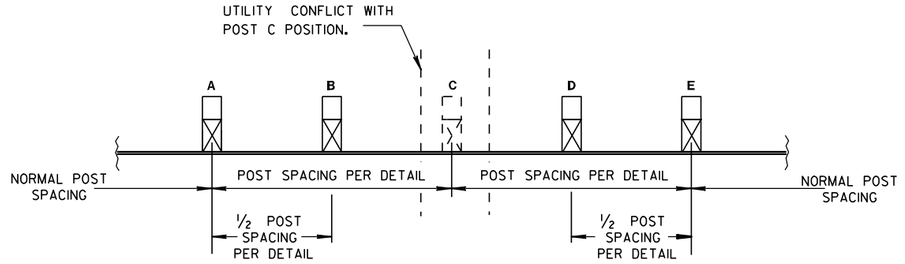


POST BOLT AND RECESS NUT

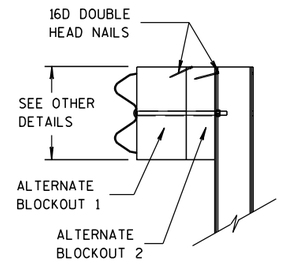


PLAN VIEW

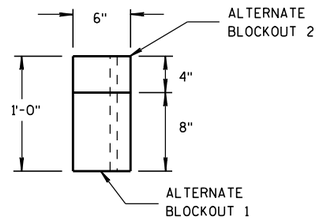
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/15/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

FHWA

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S.D.D. 14 B 42-2c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE EXTENDED VEHICLE RUNOUT PATH (EVRP), THE HINGE POINT LINE (HPL),AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

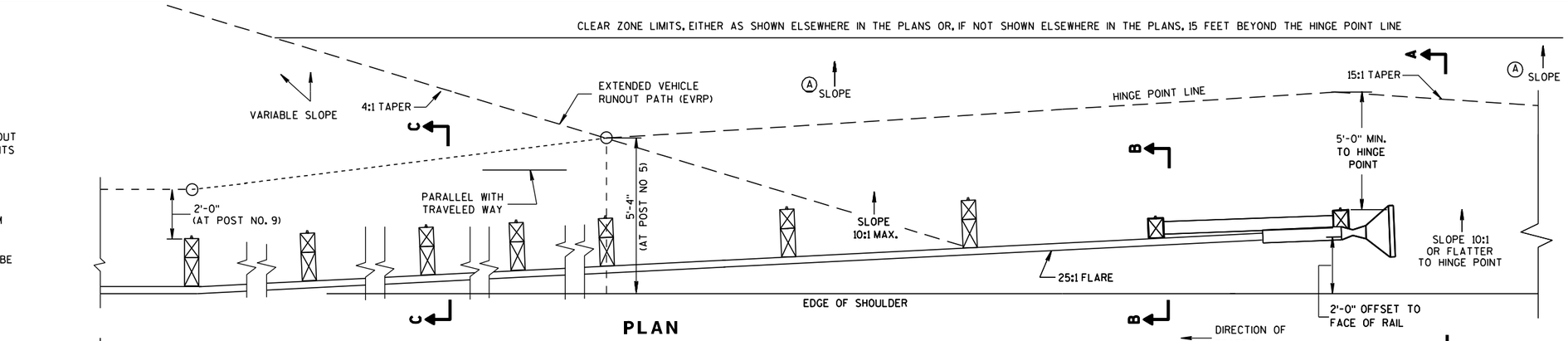
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

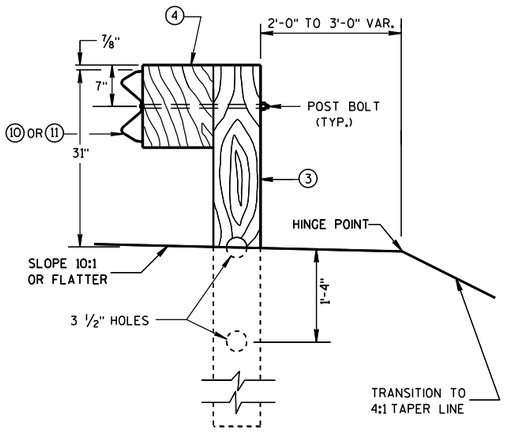
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

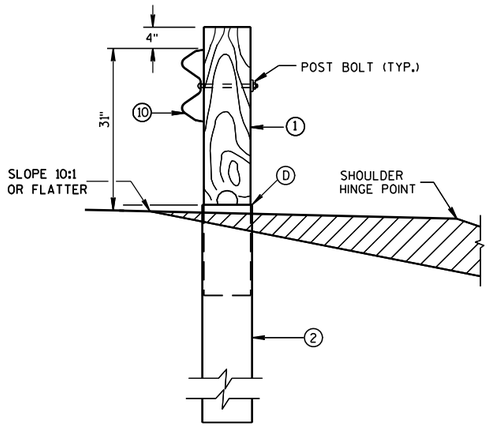
PATTERN AND COLORS ON REFLECTIVE SHEETING TYPE H ARE TO CONFORM TO OM3-L OR OM3-R OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE (± ¾")

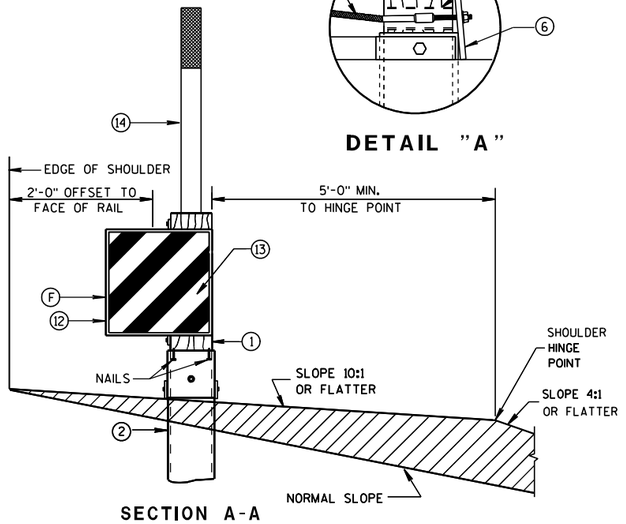




SECTION C-C
TYPICAL AT POST NOS. 3-9

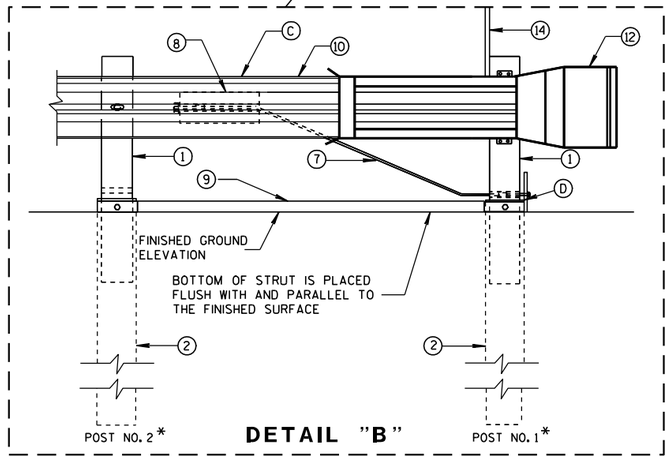


SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*

DETAIL "A"



DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

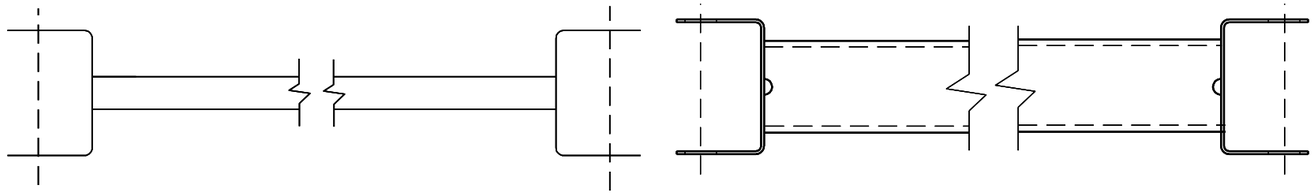
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 44-1a

6

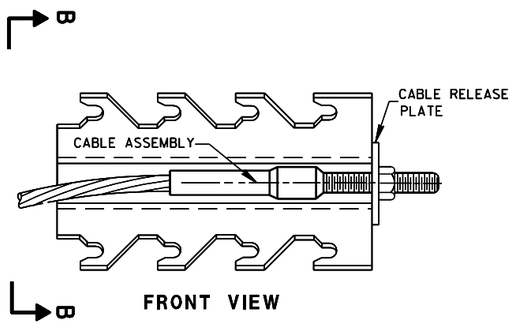
S.D.D. 14 B 44-1a



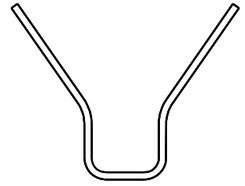
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

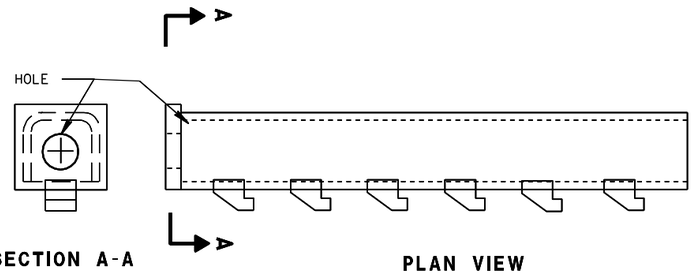
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



FRONT VIEW



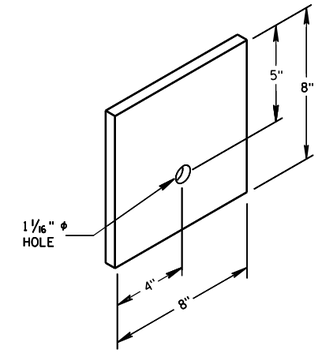
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)



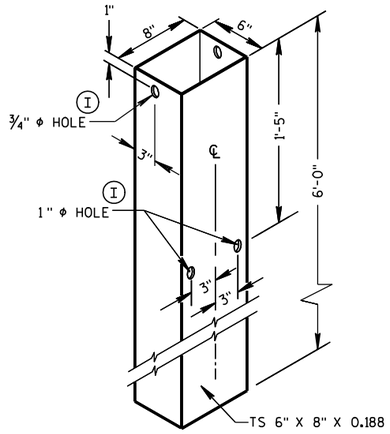
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

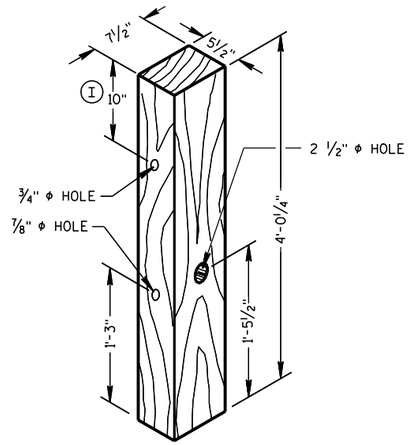
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 44-1b

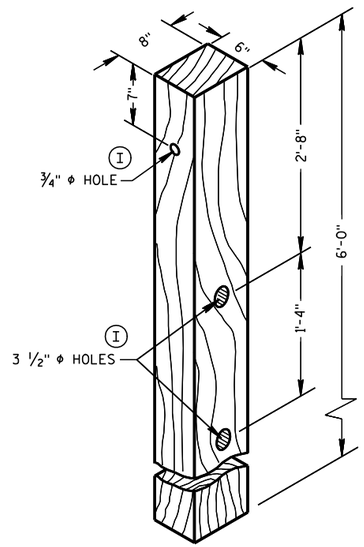


FOUNDATION TUBE (2)



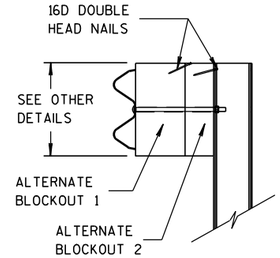
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

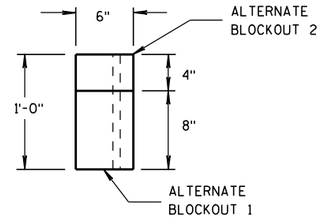


POSTS NUMBER 3-9

WOOD CRT POST (3)

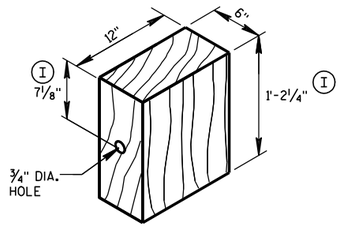


SIDE VIEW



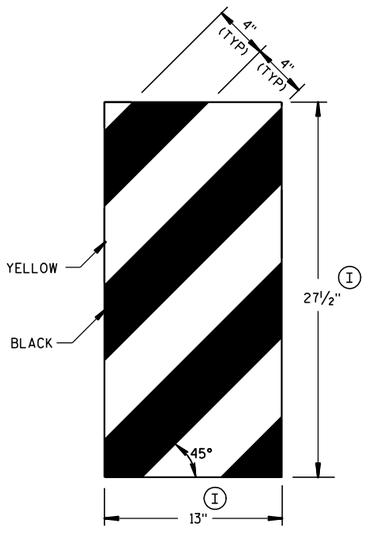
TOP VIEW

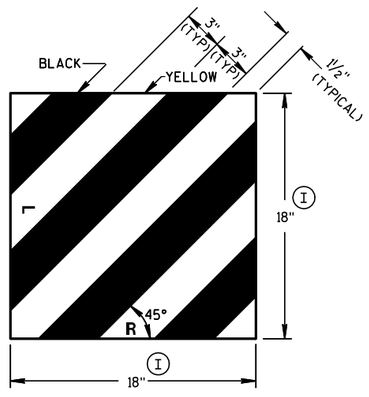
ALTERNATE WOOD BLOCKOUT DETAIL



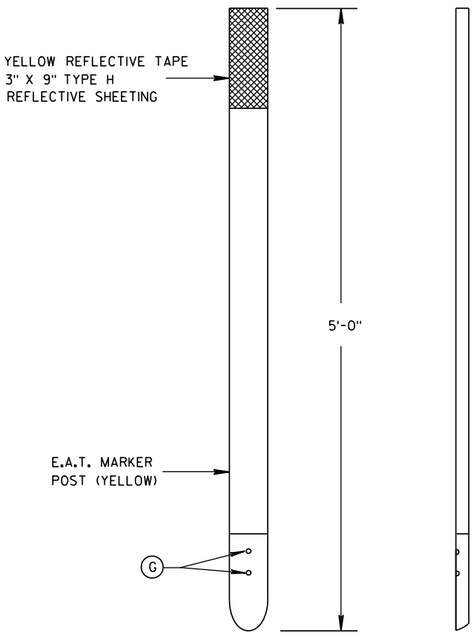
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





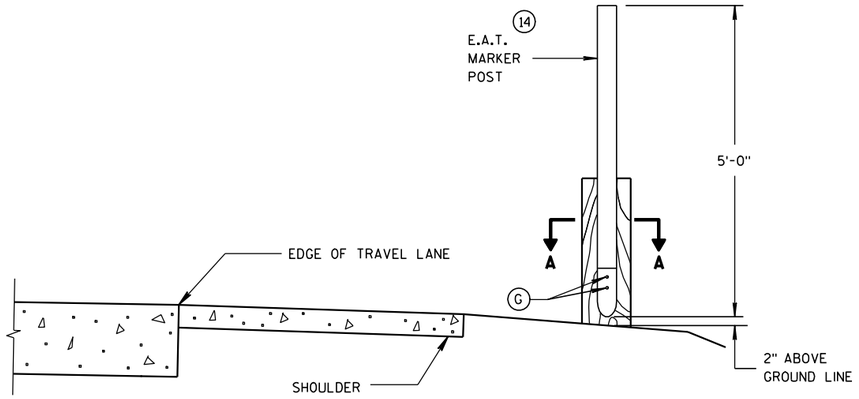
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

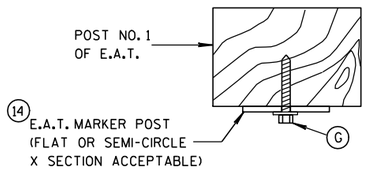
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

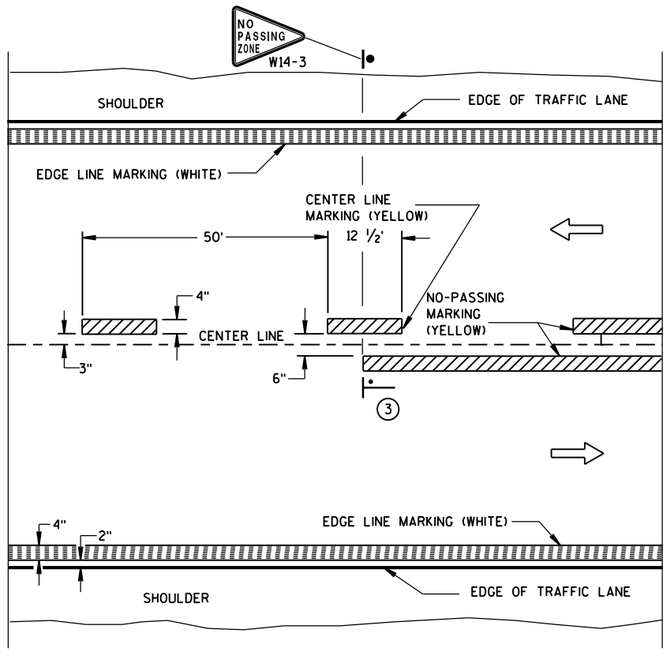
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

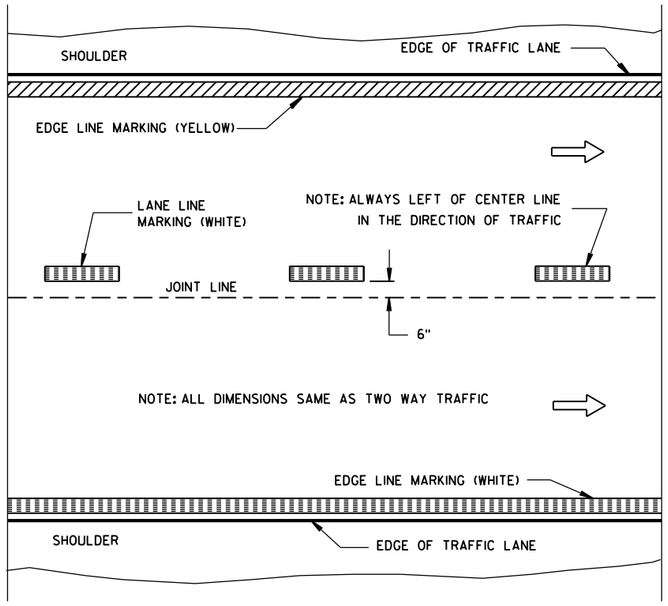
APPROVED
5/23/2011 — DATE
/S/ Jerry H. [illegible] — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 44-1c

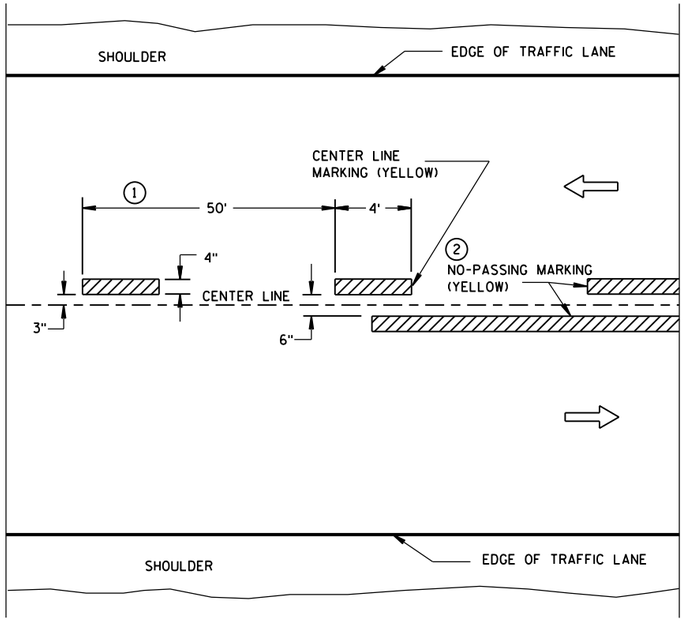


TWO WAY TRAFFIC

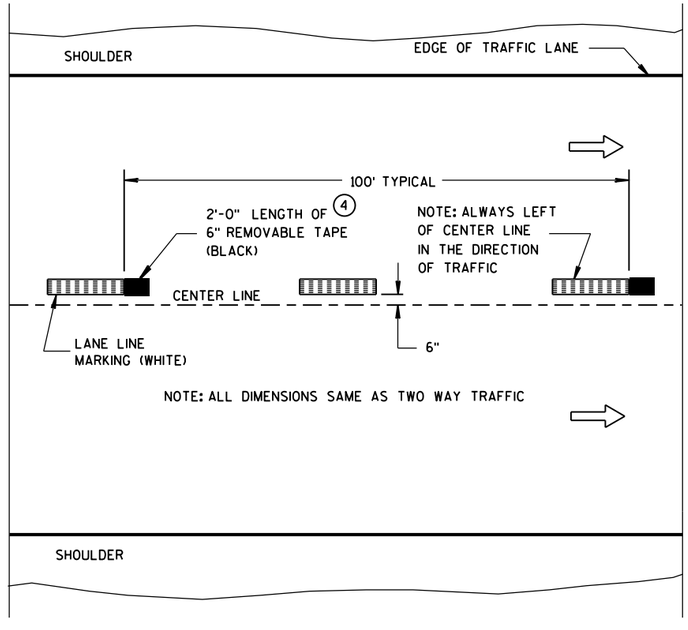


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

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

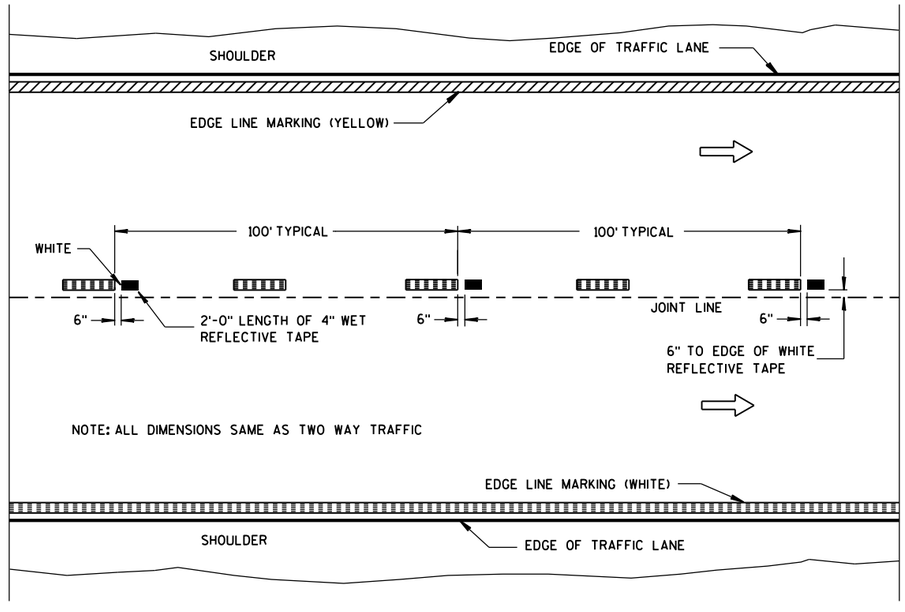
GENERAL NOTES

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

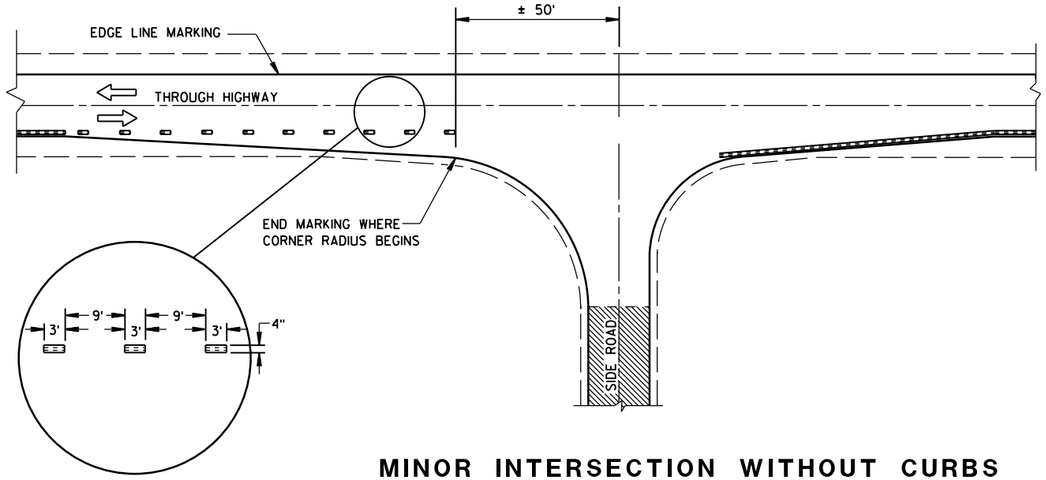
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

6

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

6

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



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

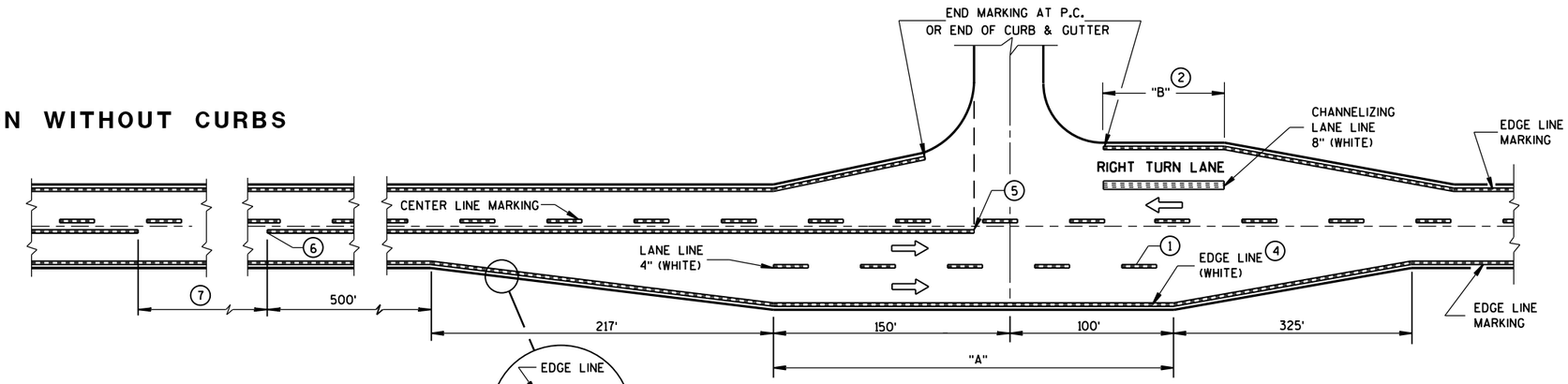
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

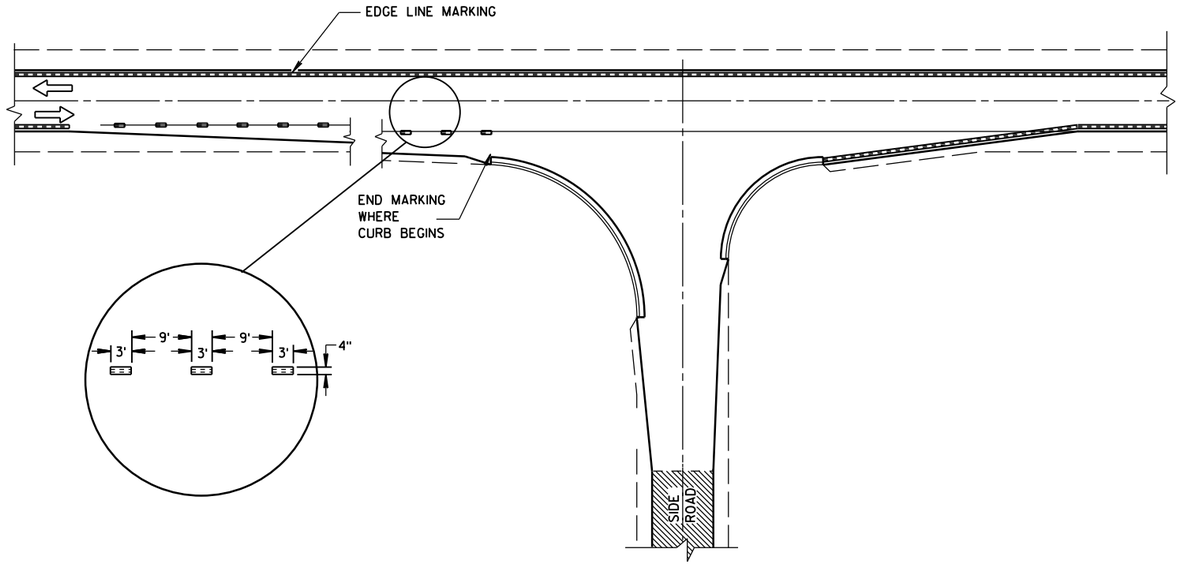
(7)

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



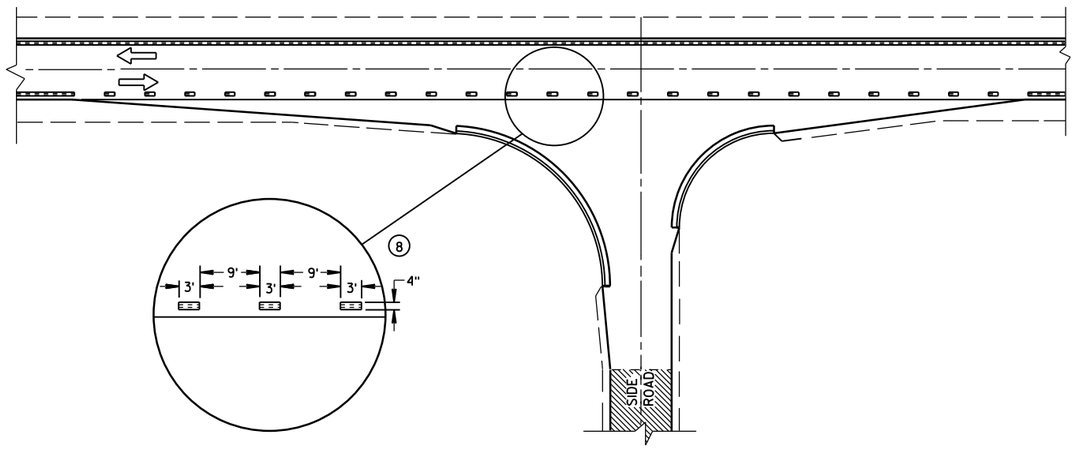
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

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

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

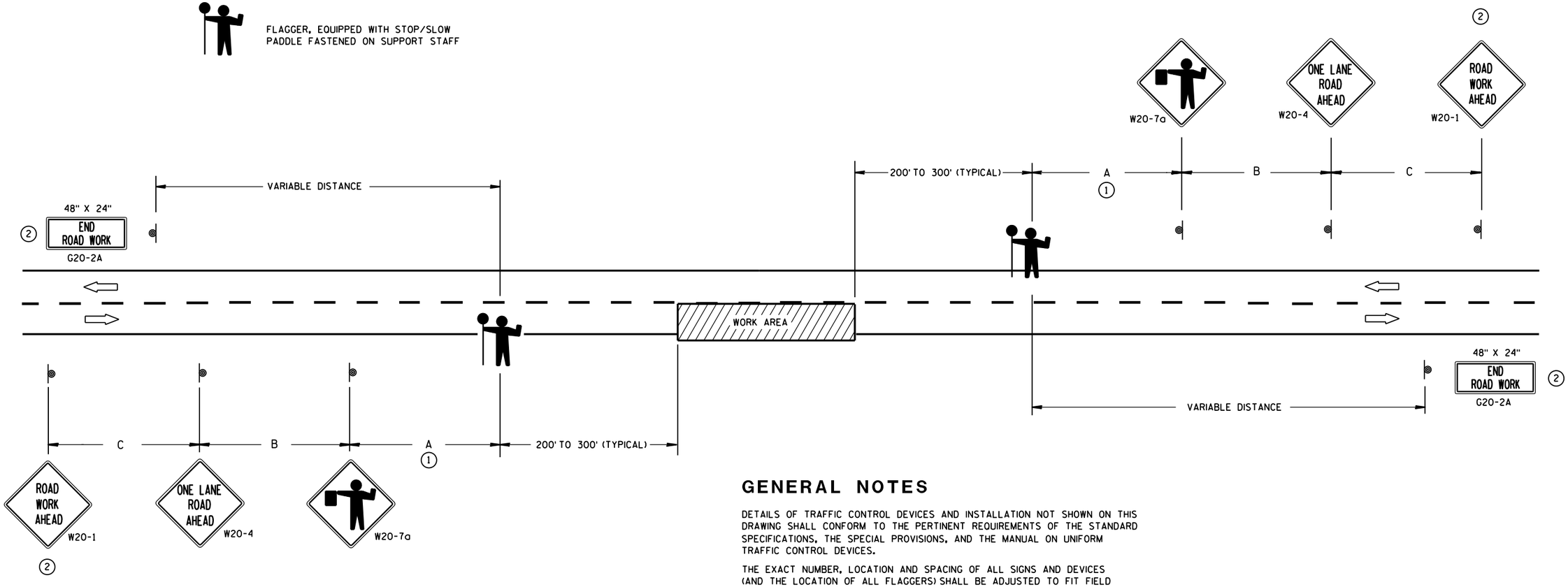
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

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

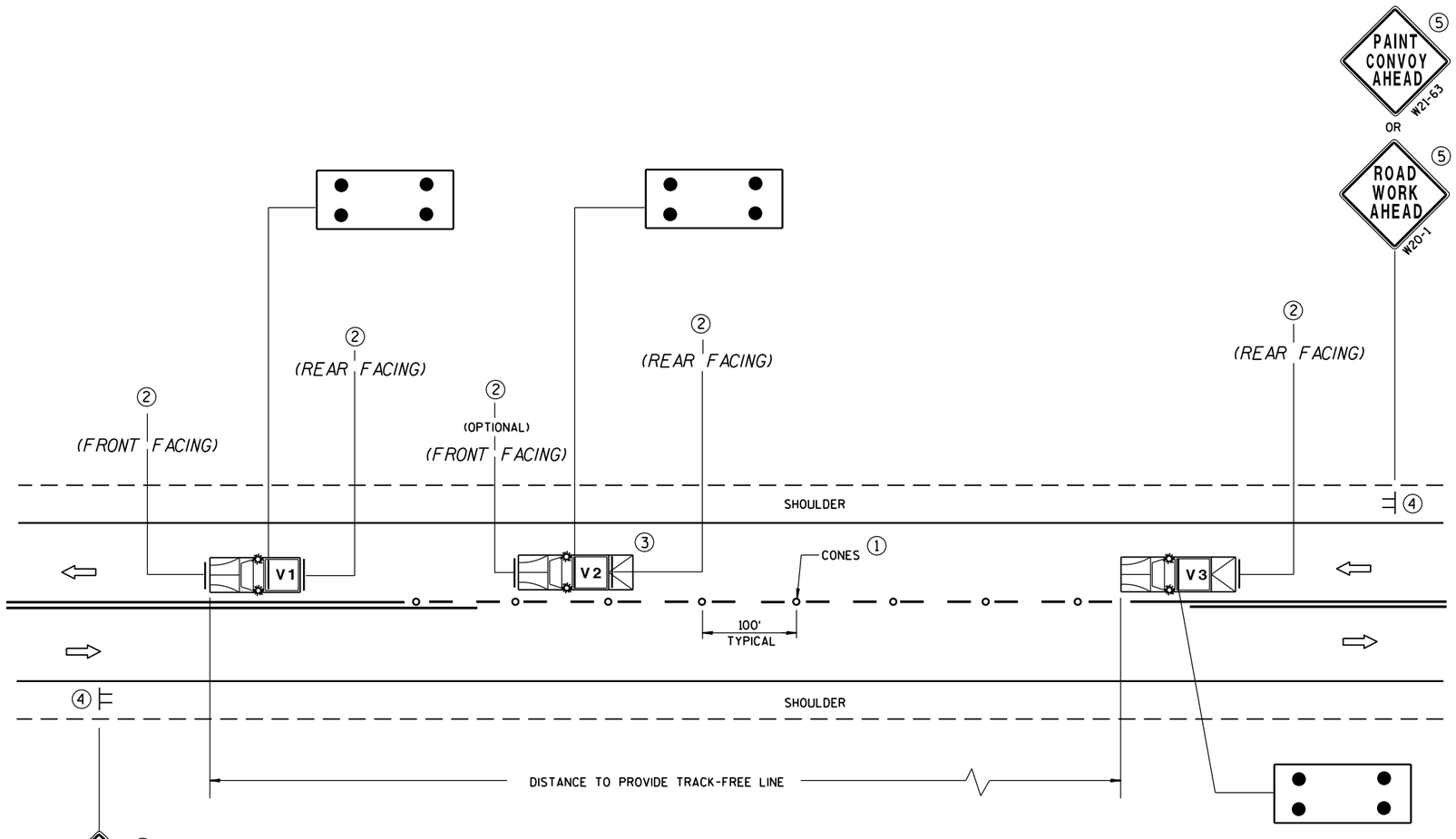
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

S.D.D. 15 C 12-4



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 OPERATIONS
TWO-LANE TWO-WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
5/3/2013 DATE	/S/ Travis Feltes STATE TRAFFIC E
FHWA	

6

S.D.D. 15 C 19-2a

6

S.D.D. 15 C 19-2a

LEGEND

- SIGN ON PERMANENT SUPPORT
- REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH ATTACHED SIGN
- CONCRETE BARRIER TEMPORARY PRECAST
- FLAGS, 16" x 16" MIN., (ORANGE)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- ASPHALTIC PAVEMENT WIDENING
- DIRECTION OF TRAFFIC
- 4" X 6" WOOD POST
- TEMPORARY SIGNAL WITH BACKPLATE AND 12-INCH LENSES ON BREAKAWAY POLE

W057-52
36"x24"

INSTALL ON EACH APPROACH AT THE CLOSEST INTERSECTION WITH A STATE OR COUNTY TRUNK HIGHWAY, OR AS DIRECTED BY THE ENGINEER. WIDTH ON SIGN TO BE APPROX. 1-FOOT LESS THAN AVAILABLE WIDTH. (OMIT IF AVAILABLE WIDTH IS MORE THAN 16 FEET.)

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.

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

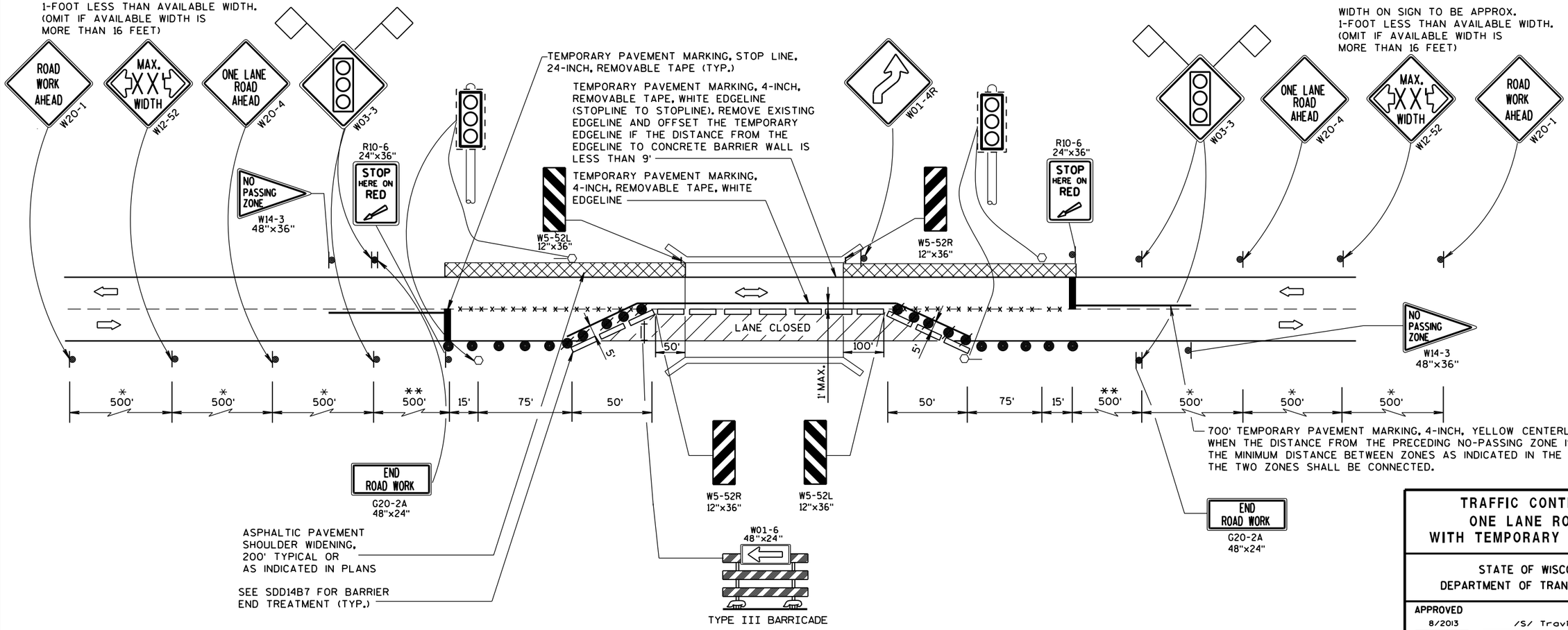
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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.

PLACE TEMPORARY PAVEMENT MARKING EDGELINE AND CENTERLINE, AND REMOVE EXISTING PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS OR AS NOTED ON DETAIL.

* 500-FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350-FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200-FOOT TYPICAL SPACING.

** USE 300' SPACING IF PRE-CONSTRUCTION REGULATORY SPEED LIMIT IS 35 MPH OR LESS.



TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

SIGN

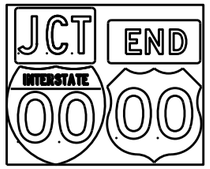
FHWA

6

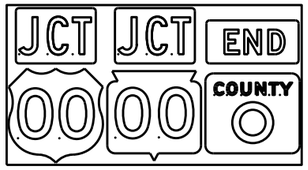
S.D.D. 15 D 33-3

TYPICAL ASSEMBLIES

J1-1

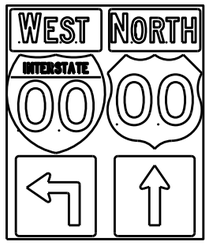


J1-2

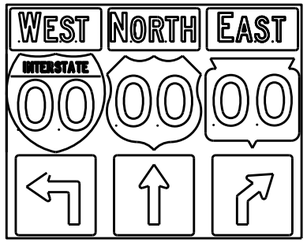


J1-3

J2-1



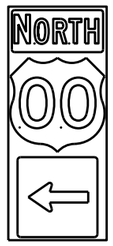
J2-2



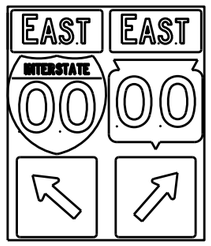
J2-3

JV

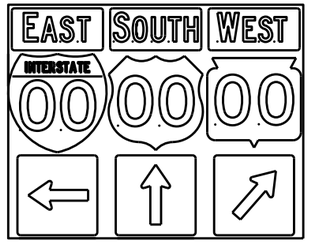
(Typical Vertical J-Assembly
See Note 10 and 11)



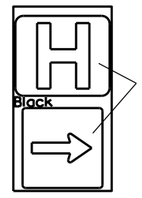
J3-1



J3-2

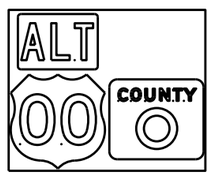


J3-3

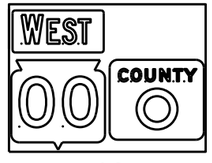


JH-1

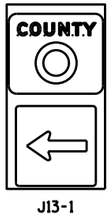
J4-1



J4-2



J4-2



J13-1

J12-1

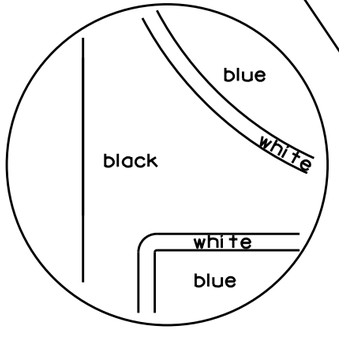
J32-1

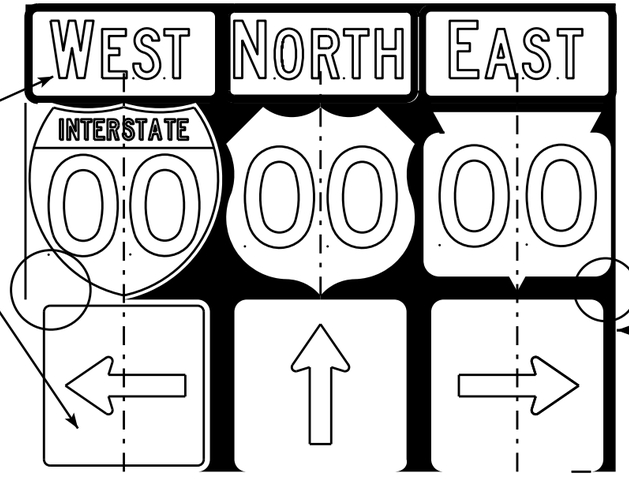
J33-1

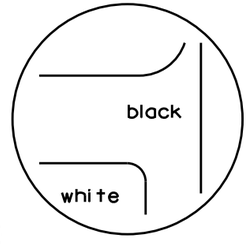
J23-1

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

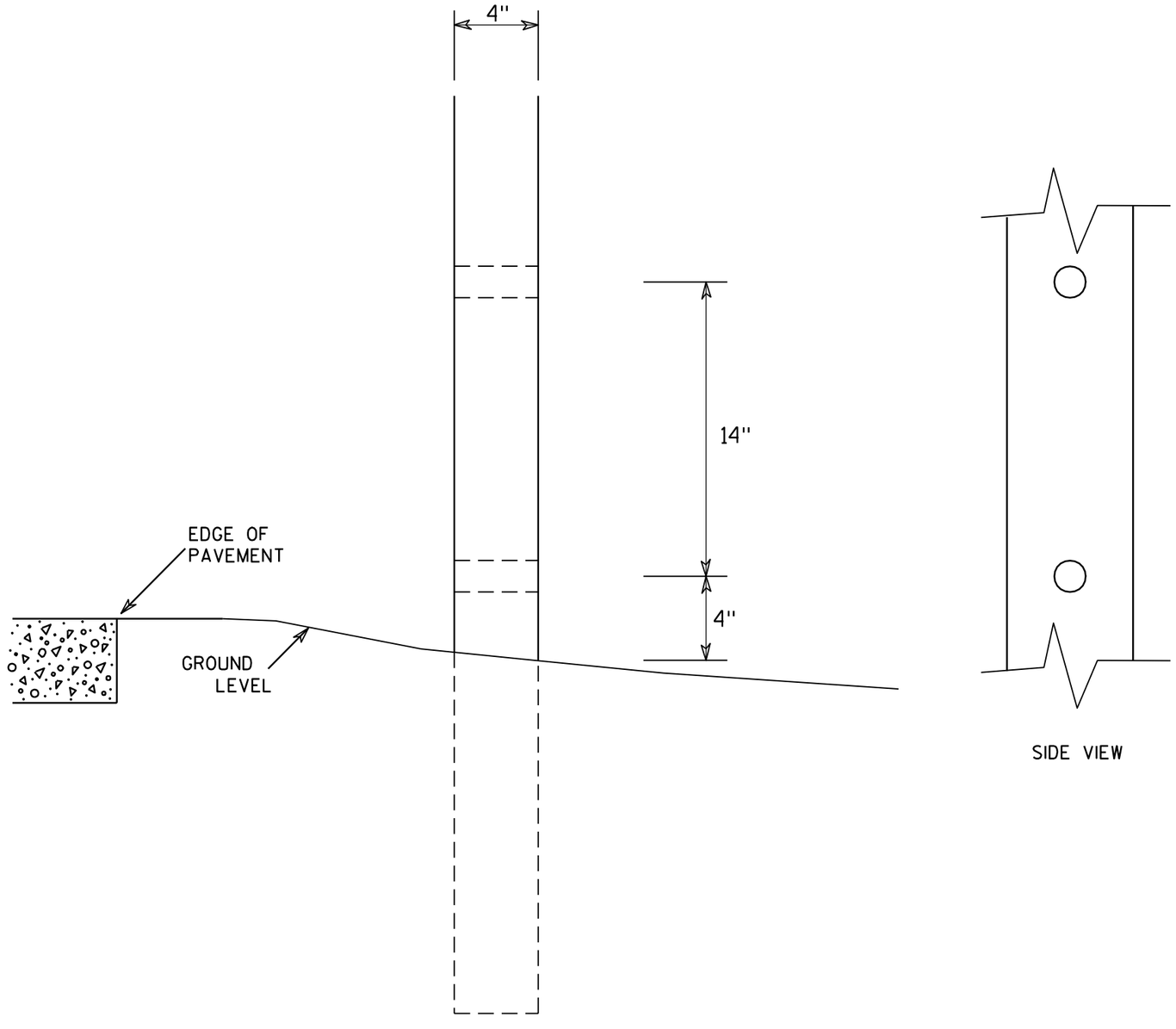
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42



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

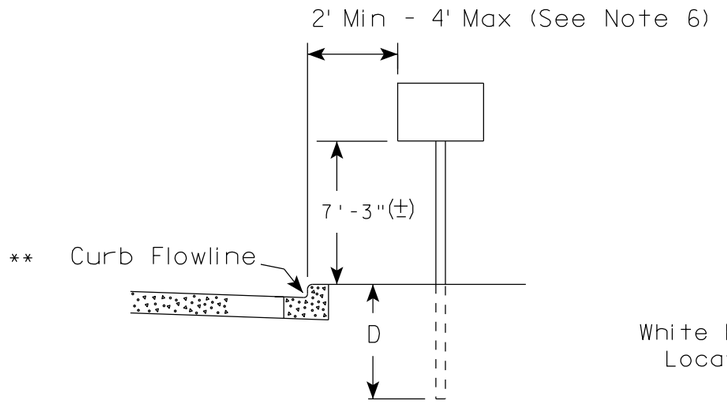
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

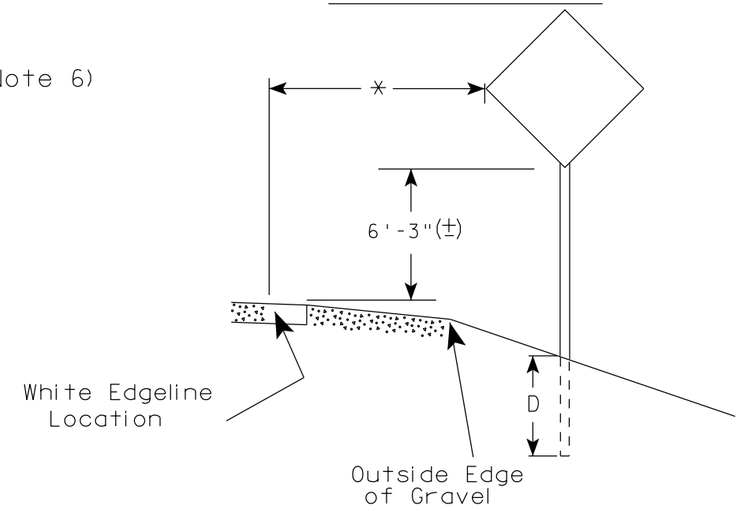
DATE 3/27/97 PLATE NO. A4-11.2

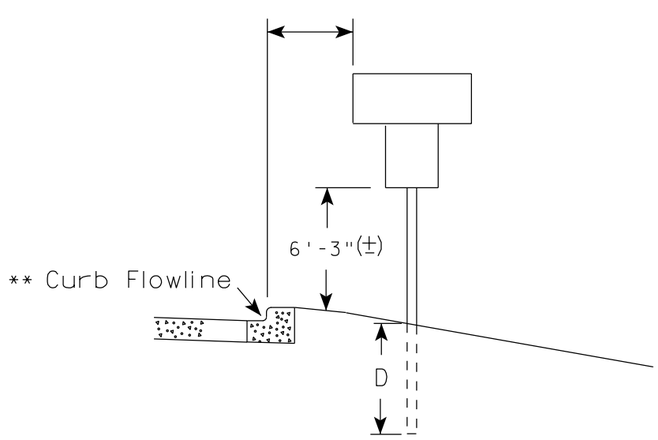
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 71	E

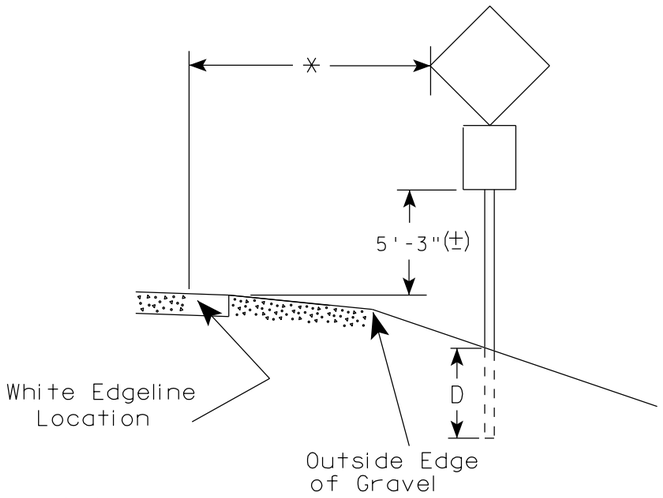
URBAN AREA



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.

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

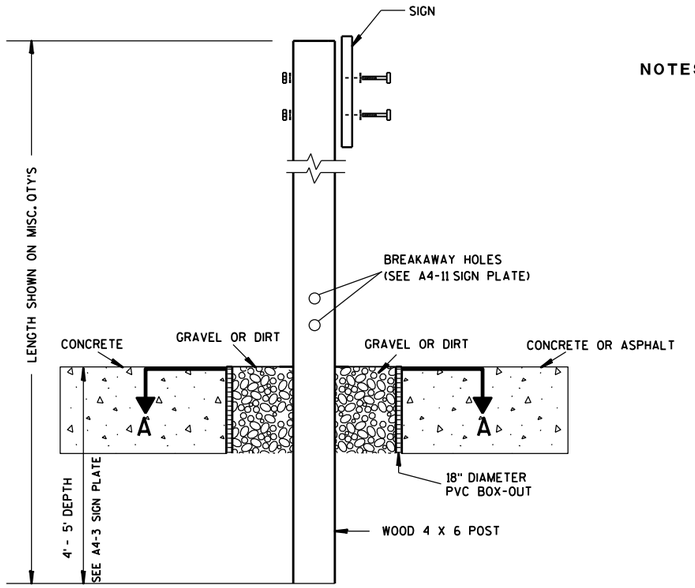
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

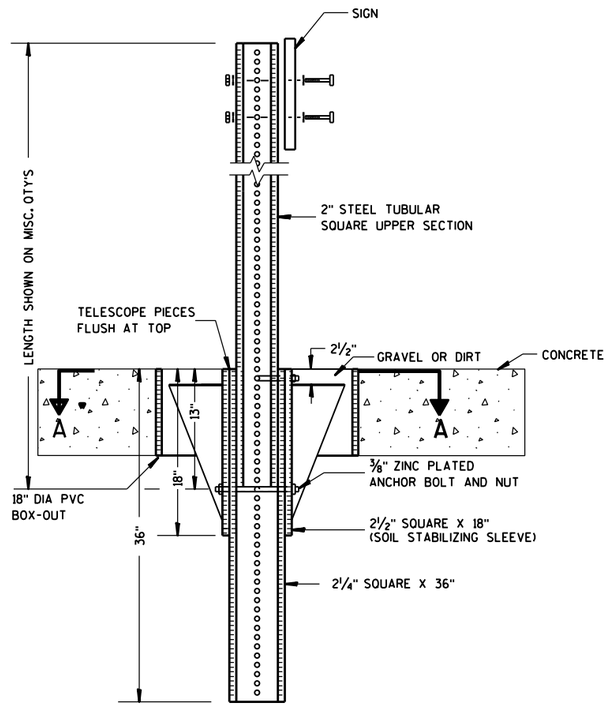
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN PLOT DATE : 30-SEP-2013 13:25 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 99.237937:1.000000 WISDOT/CADDS SHEET 42



ELEVATION VIEW

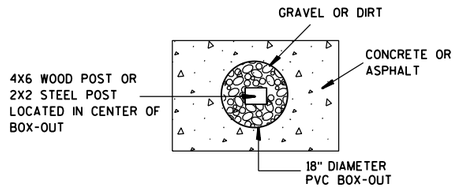
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

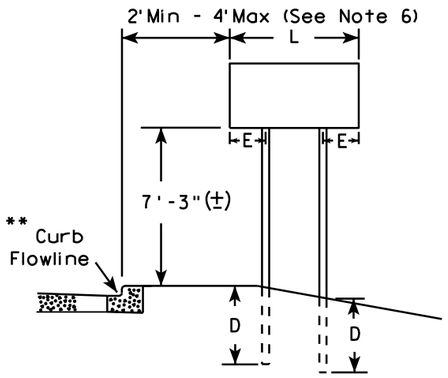
APPROVED Matthew R Rauch
for State Traffic Engineer

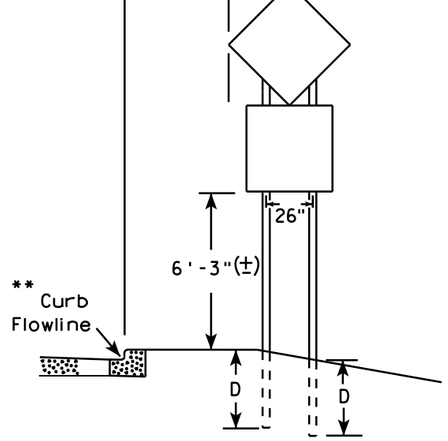
DATE 1/27/14 PLATE NO. A4-3B.1

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

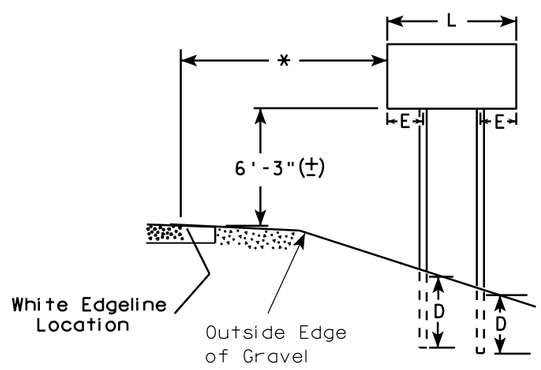
URBAN AREA

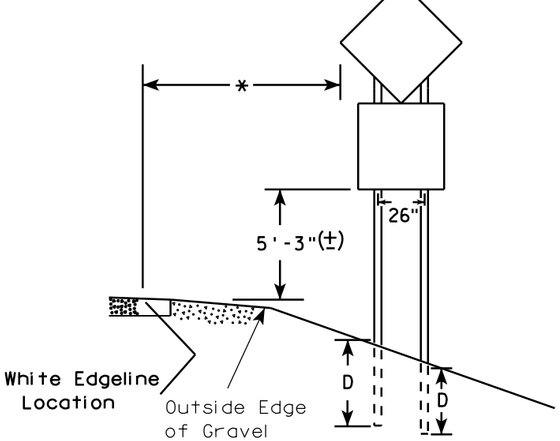




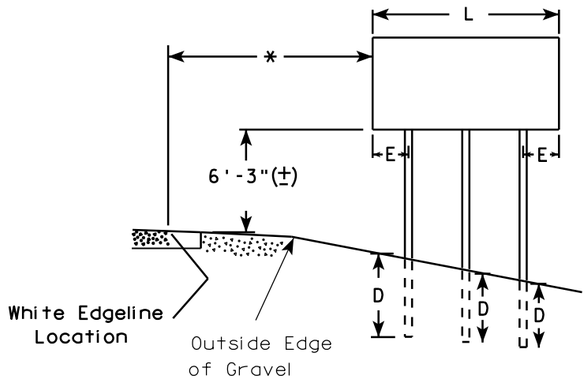
48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)





48" DIAMOND WARNING SIGN



GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

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

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

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

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

***

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

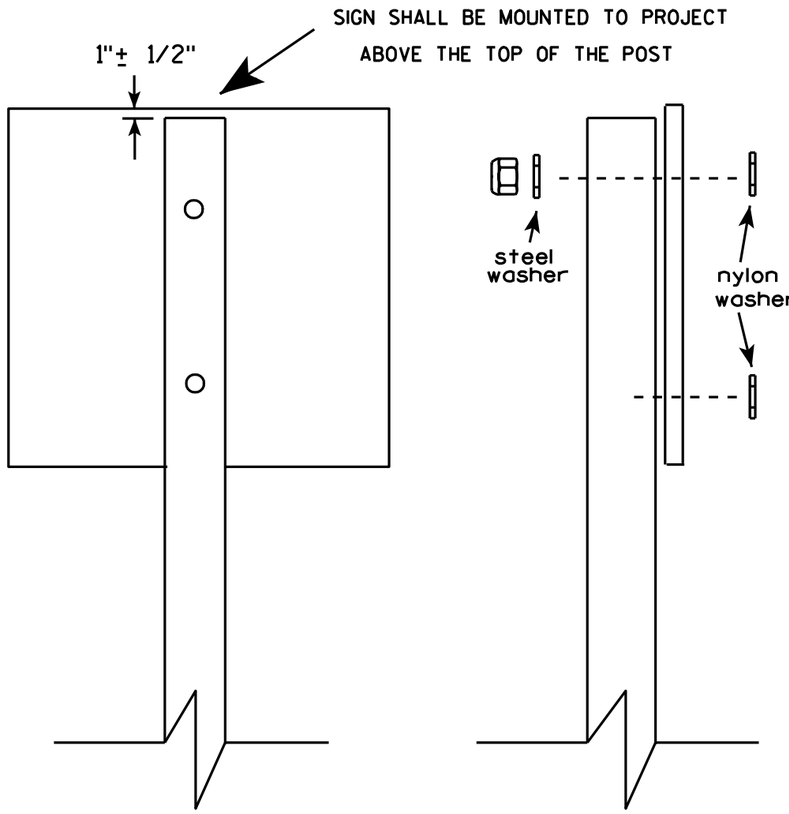
WISCONSIN DEPT OF TRANSPORTATION

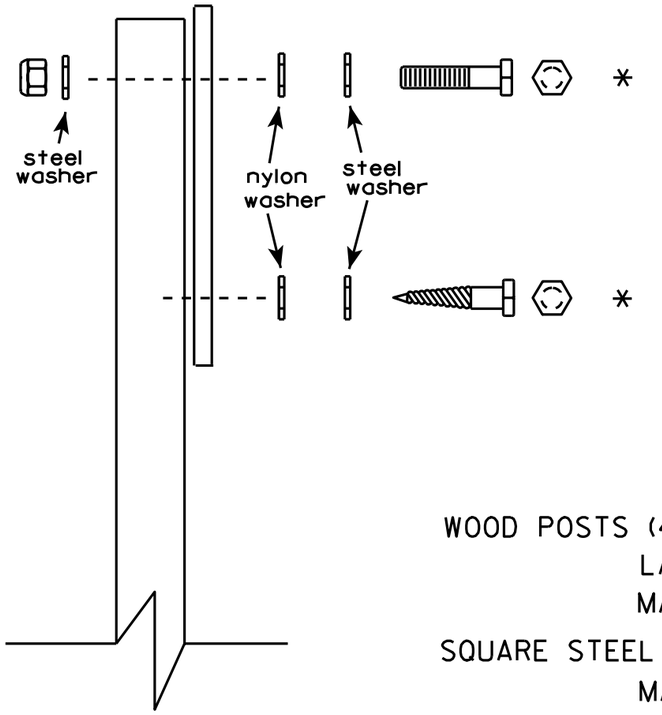
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/13 PLATE NO. A4-4 12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 30-SEP-2013 13:27 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 :

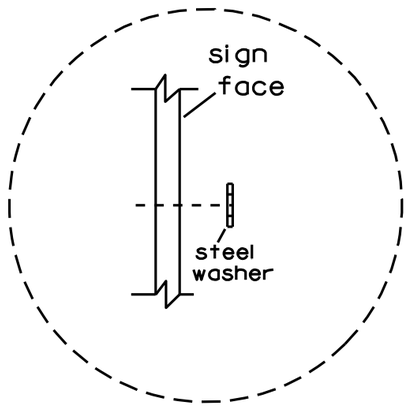
a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

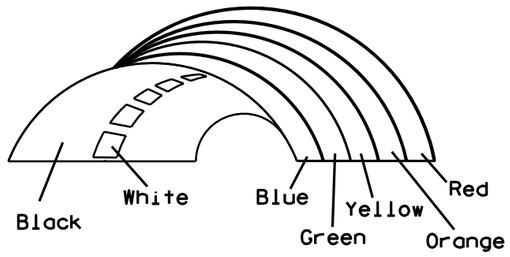
PROJECT NO:

SHEET NO: 75 E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - (See Note 5)
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. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

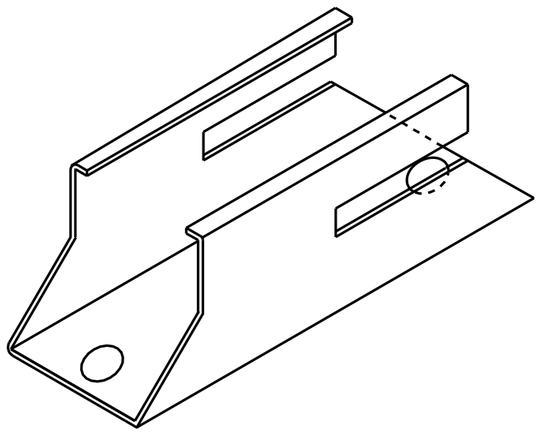
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 76

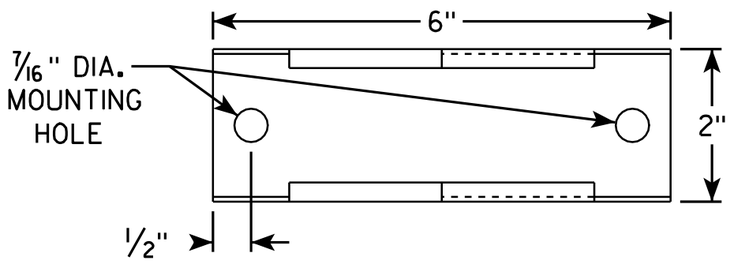
ISOMETRIC VIEW



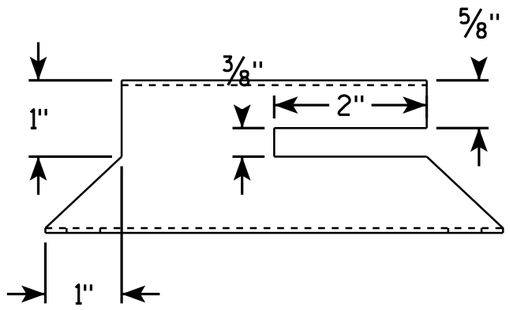
NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

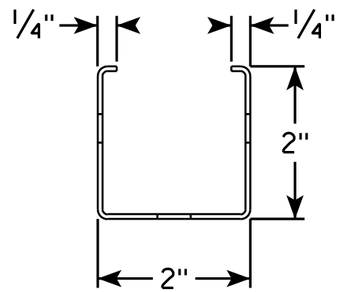
TOP VIEW



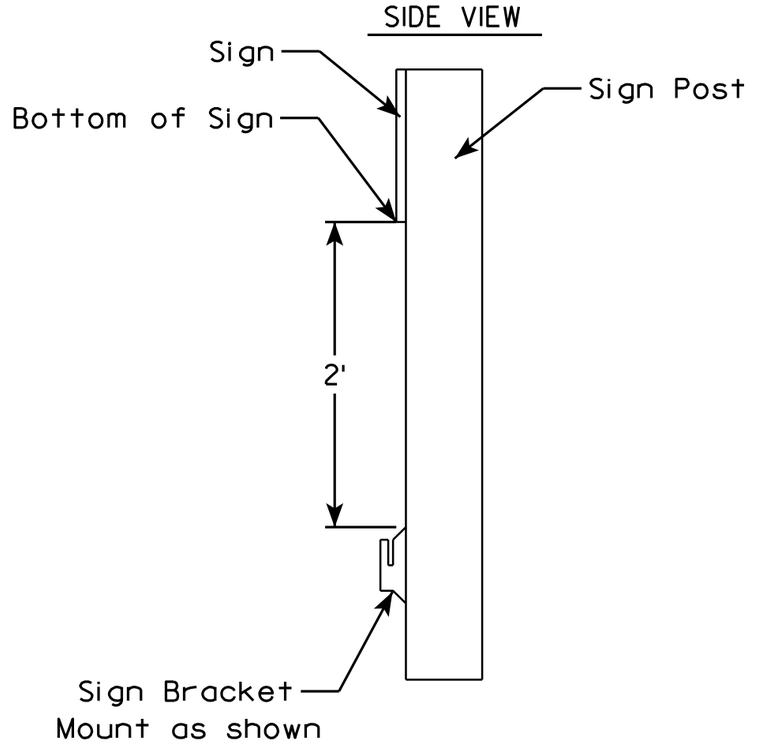
SIDE VIEW



END VIEW



SIDE VIEW



7

7

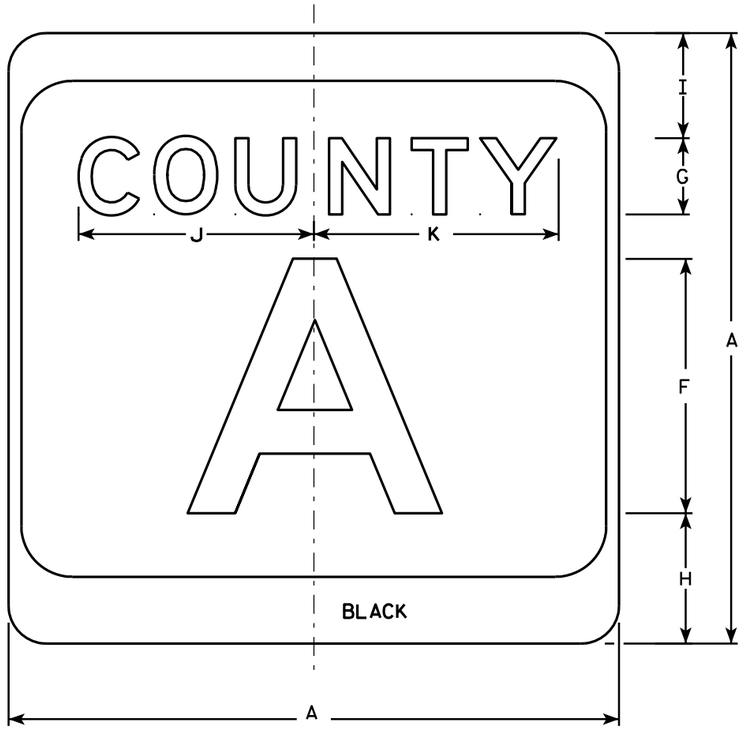
ROLLUP SIGN BRACKET I55-56B

WISCONSIN DEPT OF TRANSPORTATION

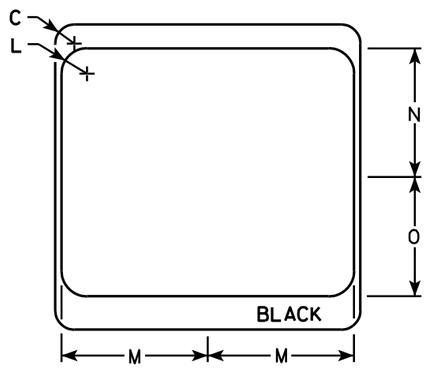
APPROVED Matthew R Rauch for State Traffic Engineer

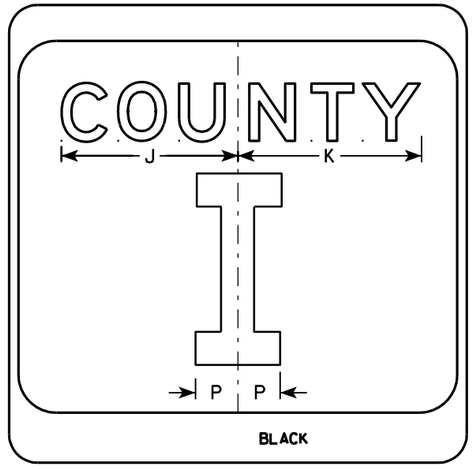
DATE 2/5/10 PLATE NO. I55-56B.1

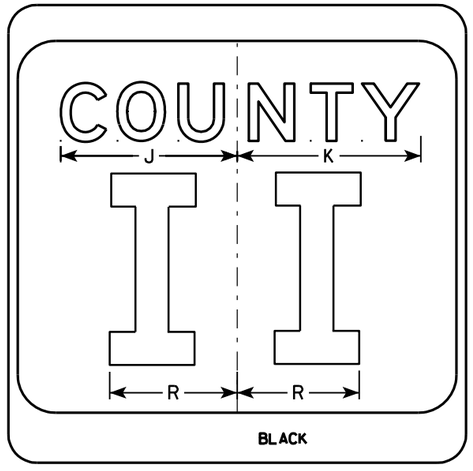
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 77	E



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

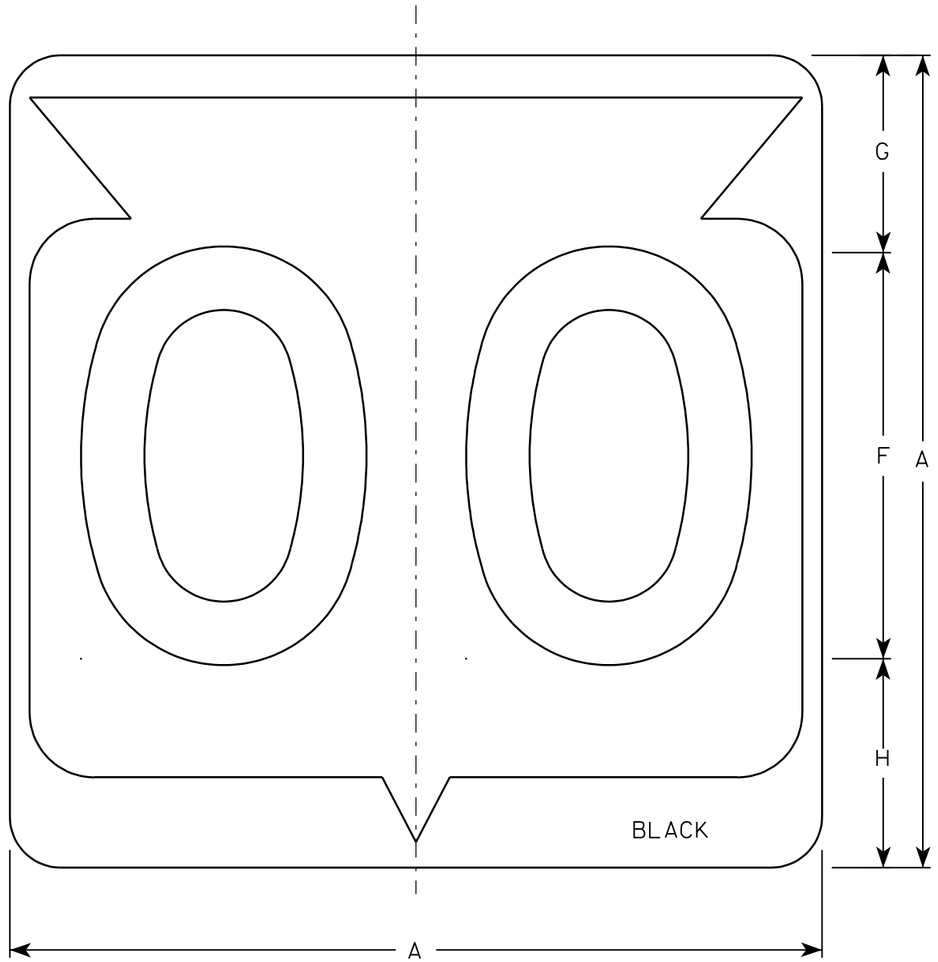
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

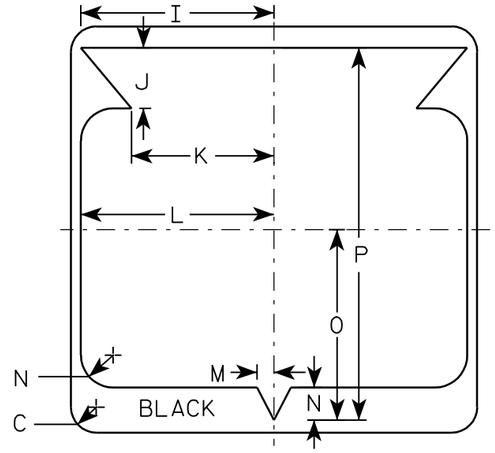
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 78 | E



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

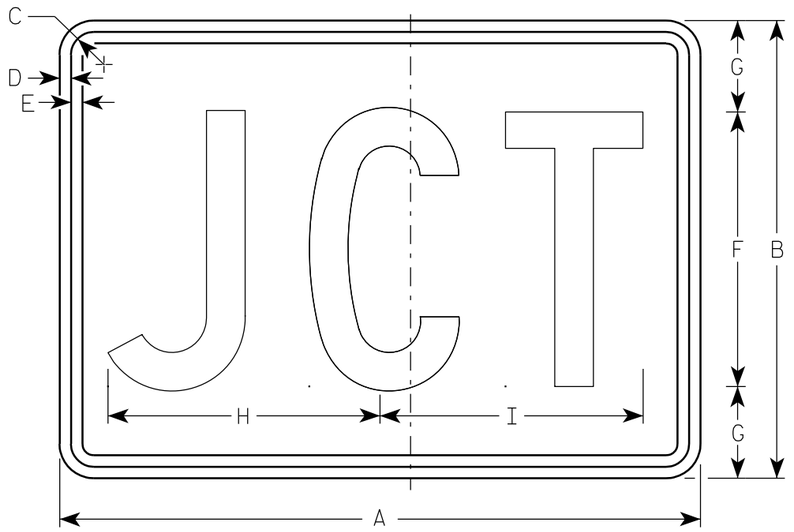
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

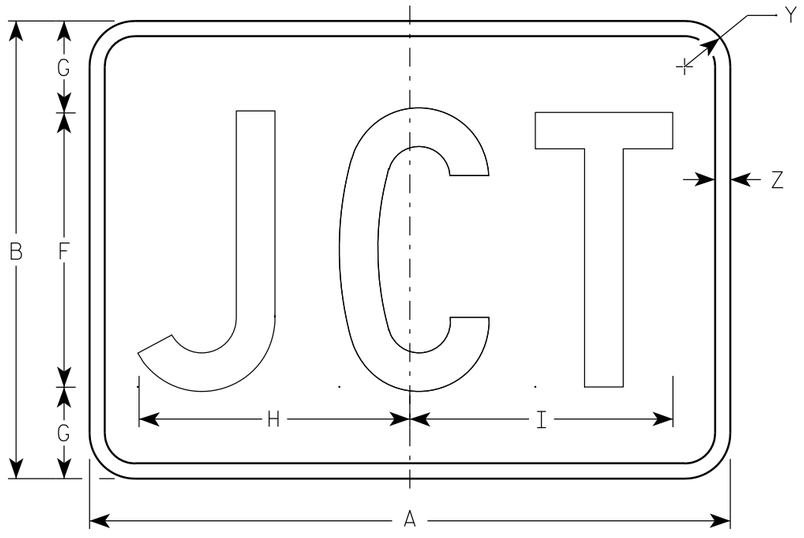
APPROVED Chester J Spang for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 79	E



M2-1
MK2-1
MM2-1
MR2-1



MB2-1
MG2-1
MN2-1

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - 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 - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB2-1 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG2-1 Background - Green
   Message - White - Type H Reflective
   MK2-1 Background - Green
   Message - White - Type H Reflective
   MM2-1 Background - White - Type H Reflective
   Message - Green
   MN2-1 Background - Brown
   Message - White - Type H Reflective
   MR2-1 Background - Brown
   Message - Yellow - Type H Reflective

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 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	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
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	0.20
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	0.20
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	0.20

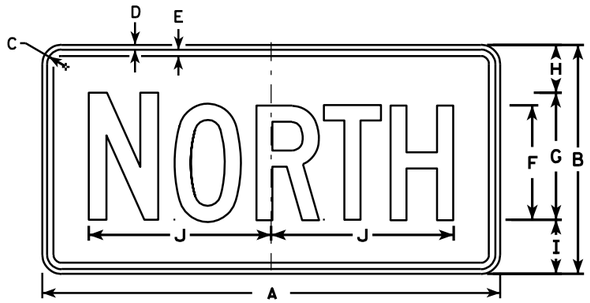
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

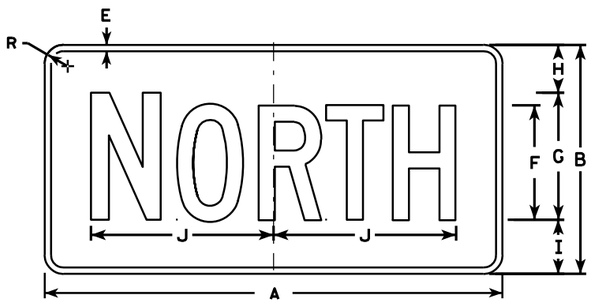
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M2-1.10

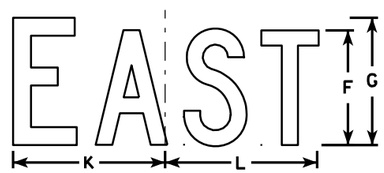
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 80	E



M3-1
MK3-1
MO3-1

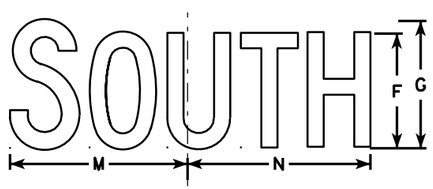


MB3-1
MG3-1
MM3-1
MN3-1

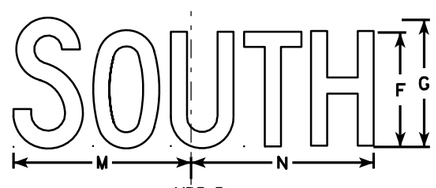


M3-2
MK3-2
MO3-2

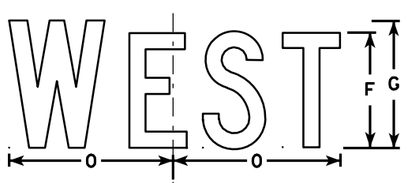
MB3-2
MG3-2
MM3-2
MN3-2



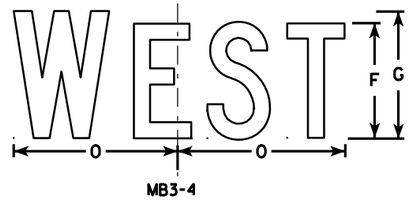
M3-3
MK3-3
MO3-3



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



M3-4
MK3-4
MO3-4



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

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective
   (Detour or temporary signs - Reflective)
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary signs - Reflective)
   MG3-1 thru MG3-4 Background - Green
   Message - White - Type H Reflective
   MK3-1 thru MK3-4 Background - Green
   Message - White - Type H Reflective
   MM3-1 thru MM3-4 Background - White - Type H Reflective
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White - Type H Reflective
   M03-1 thru M03-4 Background - Orange - Reflective
   Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

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

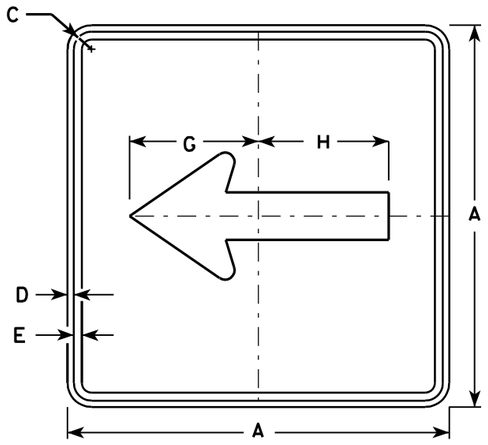
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

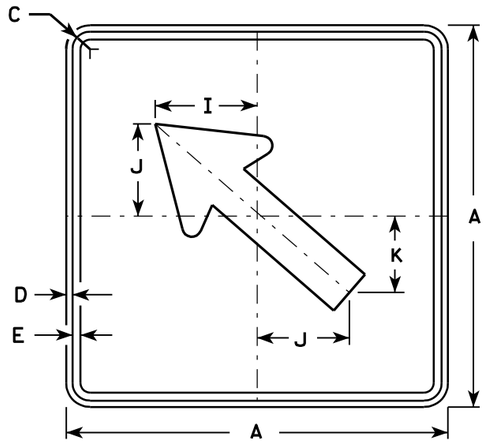
APPROVED Matthew R Rauch for State Traffic Engineer

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

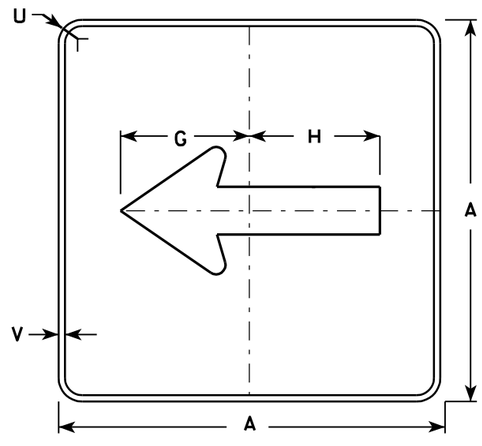
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 81	E



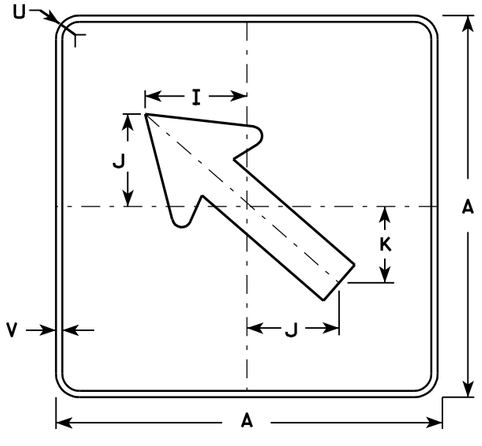
M6-1
MK6-1
MM6-1
MO6-1
MP6-1
MR6-1



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



MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective
   Message - Black

   MB6-1 and MB6-2 Background - Blue
   Message - White - Type H Reflective

   MG6-1 and MG6-2 Background - Green
   Message - White - Type H Reflective

   MK6-1 and MK6-2 Background - Green
   Message - White - Type H Reflective

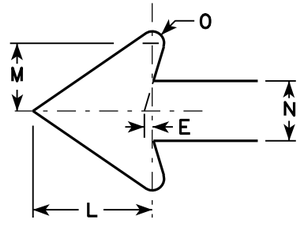
   MM6-1 and MM6-2 Background - White - Type H Reflective
   Message - Green

   MN6-1 and MN6-2 Background - Brown
   Message - White - Type H Reflective

   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black

   MP6-1 and MP6-2 Background - White - Type H Reflective
   Message - Blue

   MR6-1 and MR6-2 Background - Brown
   Message - White - Type H Reflective



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

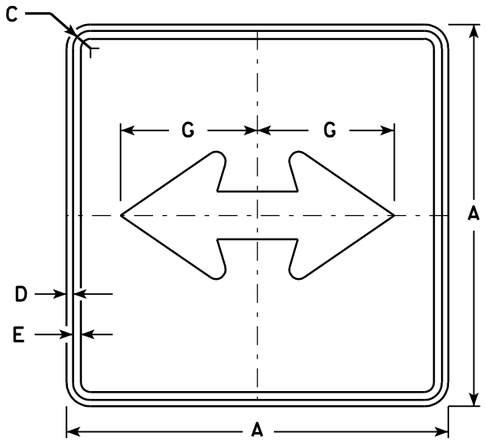
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

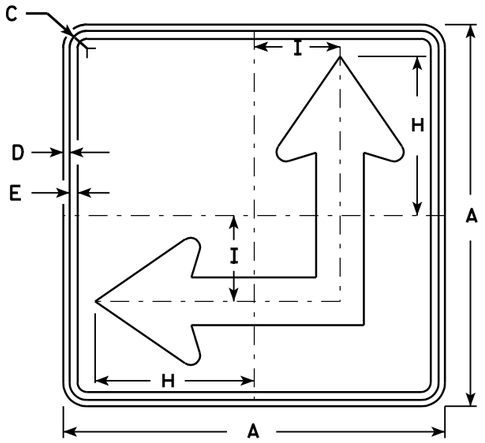
APPROVED Matthew R Rauch
for State Traffic Engineer

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

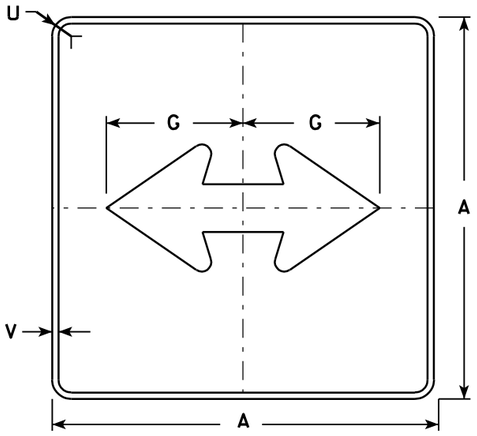
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 82 | E



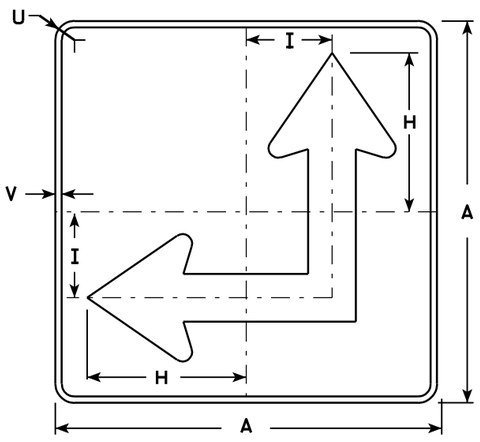
M6-4
MK6-4
MM6-4
MO6-4
MP6-4
MR6-4



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



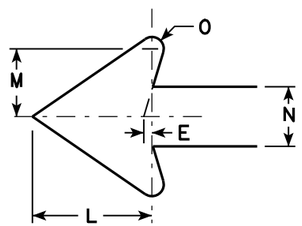
MB6-4
MG6-4
MN6-4



MB6-6
MG6-6
MN6-6

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White - Type H Reflective
   MG6-4 and MG6-6 Background - Green
   Message - White - Type H Reflective
   MK6-4 and MK6-6 Background - Green
   Message - White - Type H Reflective
   MM6-4 and MM6-6 Background - White - Type H Reflective
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White - Type H Reflective
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White - Type H Reflective
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow - Type H Reflective
5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

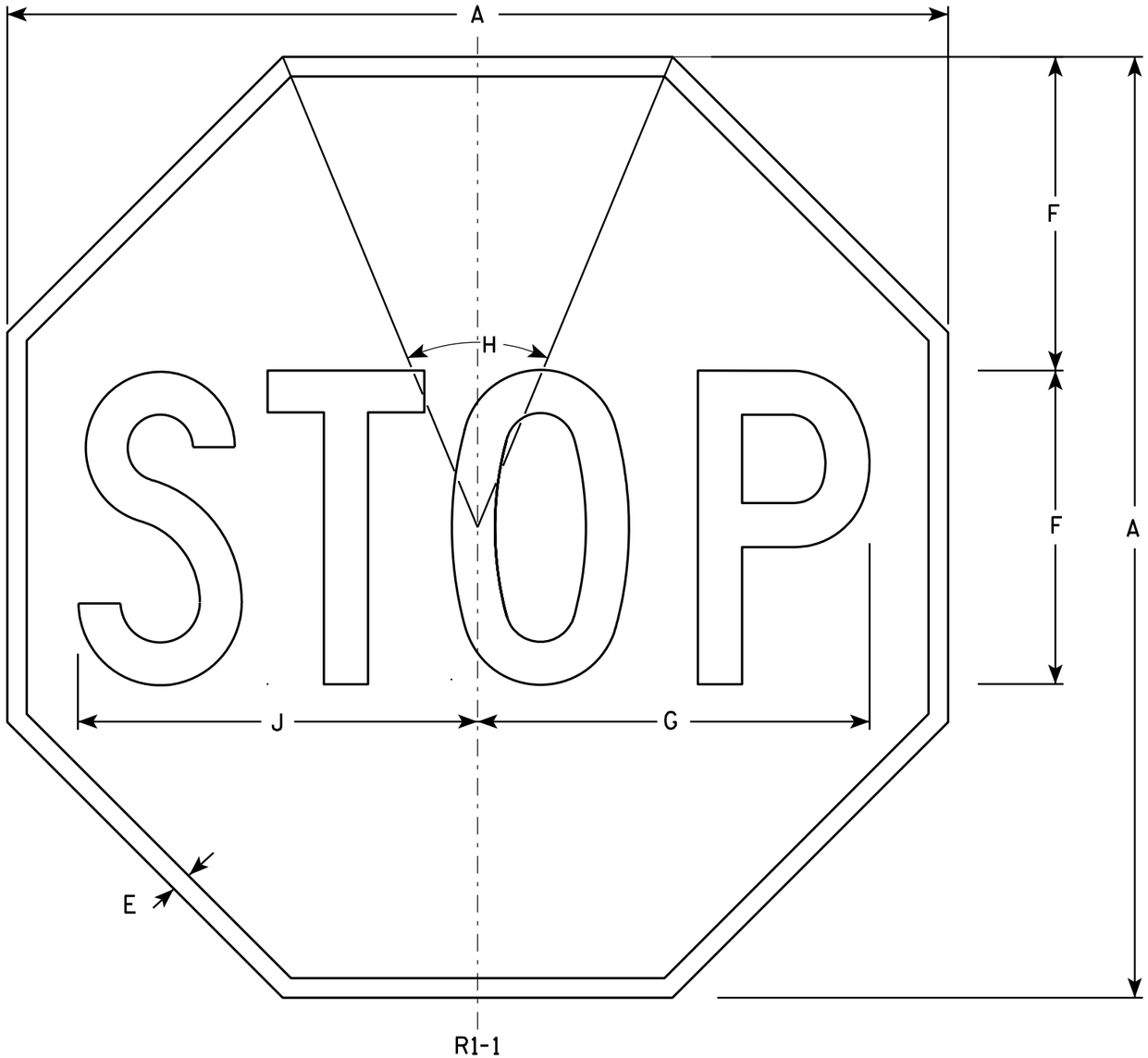
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 7/29/13 PLATE NO. M6-4.8

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



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

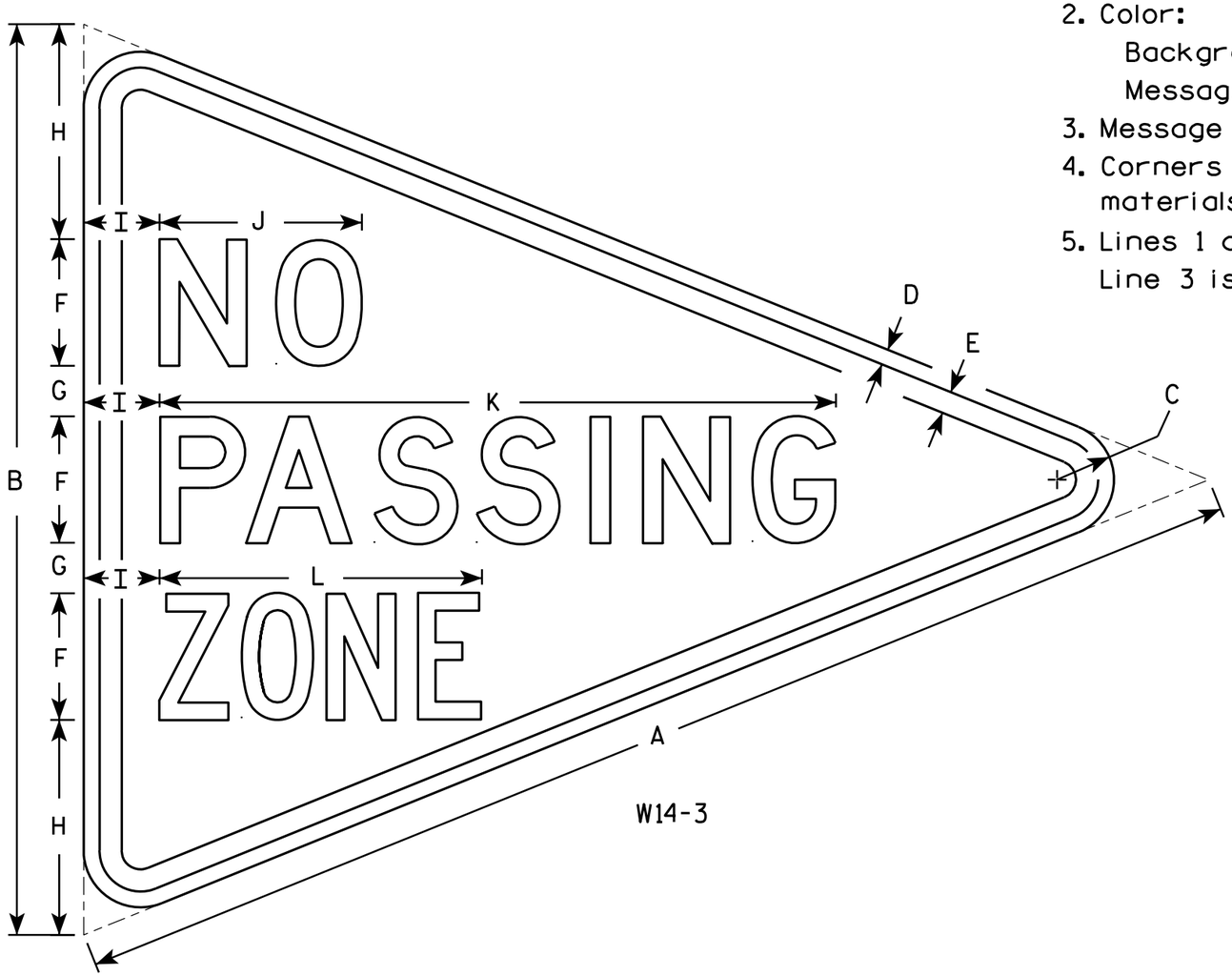
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 84	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

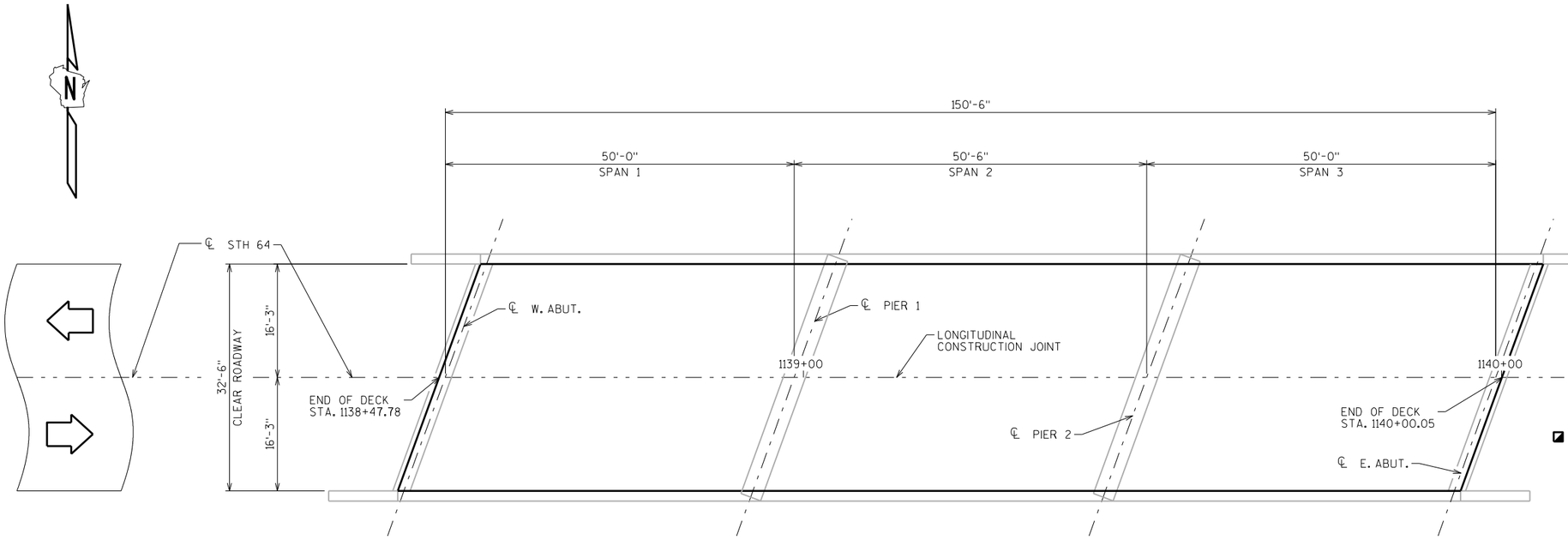
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 85	E

STATE PROJECT NUMBER

9015-12-70



PLAN

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HS-21

OPERATING RATING: HS-40

MAXIMUM STANDARD PERMIT VEHICLE LOAD: 210 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

DEFINE LIMITS OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", & "FULL DEPTH DECK REPAIR" WITH A 1" DEEP SAW CUT BEFORE REMOVING DETERIORATED CONCRETE. THE SAW CUT SHALL BE PAID AS "SAWING PAVEMENT DECK PREPARATION AREAS".

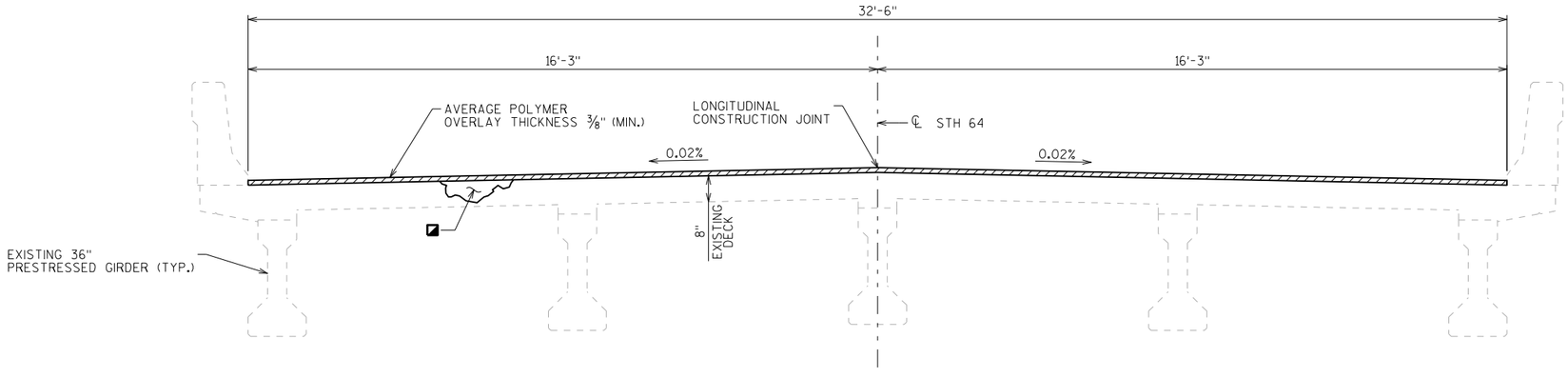
◪ AREAS OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL DEPTH DECK REPAIR" SHALL BE DETERMINED BY THE FIELD ENGINEER. DECK REPAIRS SHALL BE REPAIRED WITH THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS" TO THE TOP OF THE EXISTING DECK.

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "POLYMER OVERLAY".

BLAST CLEAN THE ENTIRE SURFACE AND ALL EXPOSED REINFORCING STEEL OF ALL "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL DEPTH DECK REPAIR" AREAS BY MECHANICALLY DISLODING CONTAMINATION OR DEBRIS AND REMOVING LOOSE PARTICLES AND DUST WITH HIGH PRESSURE WATER OR AIR. ENSURE THAT NO FREE-STANDING WATER REMAINS BEFORE PLACING GROUT AND THAT CLEANING WATER CONFORMS TO 501.2.4. CLEANING OF EXPOSED AREAS IS INCIDENTAL TO "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL DEPTH DECK REPAIR" BID ITEMS.

QUANTITY FOR OVERLAY ON APPROACHES IS INCLUDED IN THE QUANTITY FOR "POLYMER OVERLAY" BID ITEM.

CONCRETE FOR "CONCRETE MASONRY OVERLAY DECKS" SHALL MEET THE REQUIREMENTS OF SECTION 509.2(4) OF THE STANDARD SPECIFICATIONS. BID ITEM INCLUDES CONCRETE FOR "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", & "FULL DEPTH DECK REPAIR".



CROSS SECTION THRU ROADWAY

LOOKING EAST

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.0301	PREPARATION DECKS TYPE 1	SY	1
509.0302	PREPARATION DECKS TYPE 2	SY	1
509.2000	FULL DEPTH DECK REPAIR	SY	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	1
509.5100.S	POLYMER OVERLAY	SY	695
SPV.0090	SAWING PAVEMENT DECK PREPARATION AREAS	LF	30

LIST OF DRAWINGS

1. POLYMER OVERLAY
2. CONSTRUCTION STAGING

STRUCTURE CONTACTS:

JONATHON RESHESKE (608) 266-8491

LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS — CHIEF STRUCTURES DESIGN ENGINEER — 4/2/14 DATE

STRUCTURE **B-34-8**

STH 64 OVER WEST BRANCH EAU CLAIRE RIVER

COUNTY	TOWN ~~CITY/VILLAGE~~
LANGLADE	ACKLEY

DESIGN SPEC.	
REHABILITATION	N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JLR	KCY	JLR	TAB

POLYMER OVERLAY

SHEET 1 OF 2

86

I.D. 9015-12-30A

DATE: **JAN 2014**

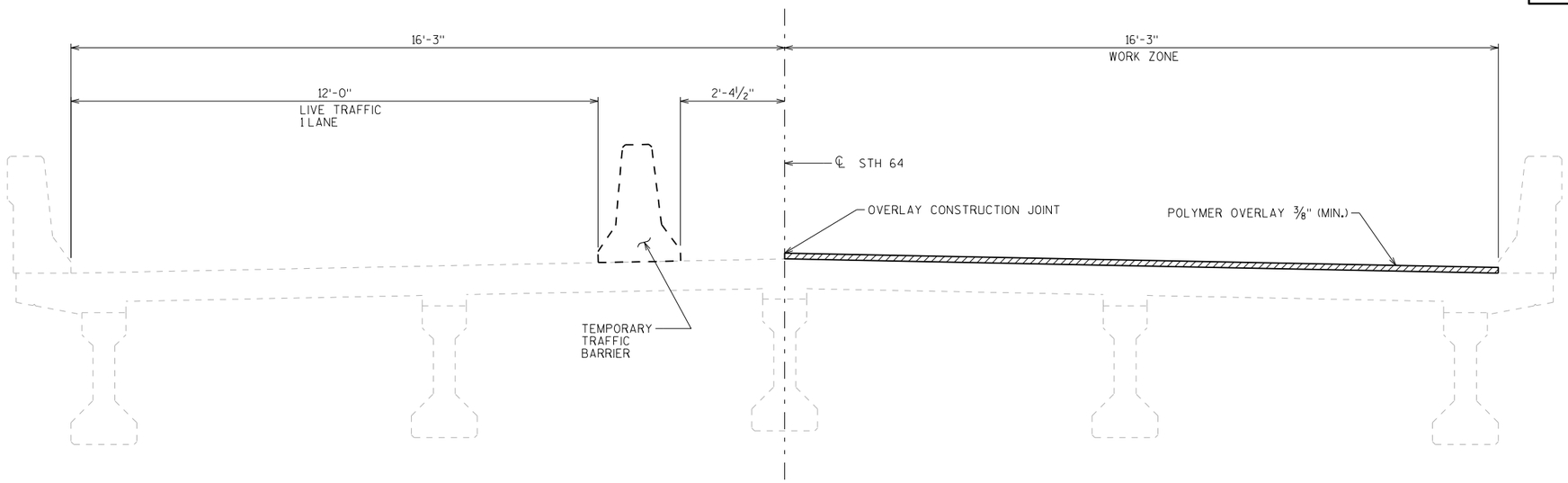
SCALE = 9

8

8

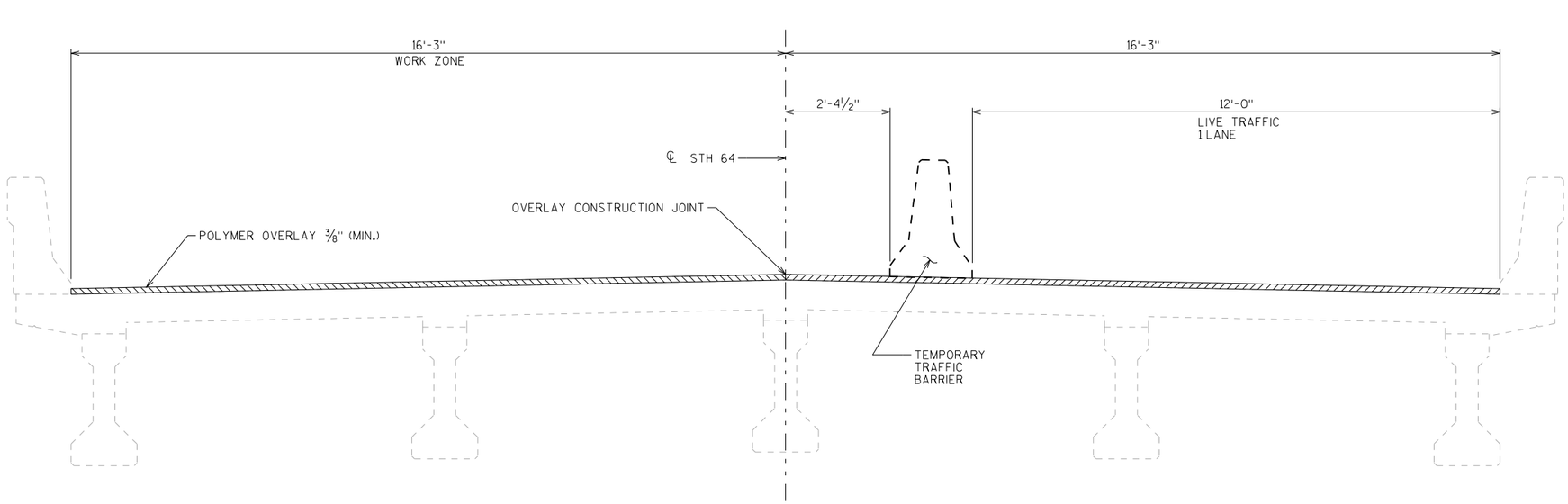
STATE PROJECT NUMBER

9015-12-70



STAGE 1 CONSTRUCTION

LOOKING EAST



STAGE 2 CONSTRUCTION

LOOKING EAST

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-34-8

DRAWN BY JLR | PLANS CK'D. TAB

CONSTRUCTION STAGING

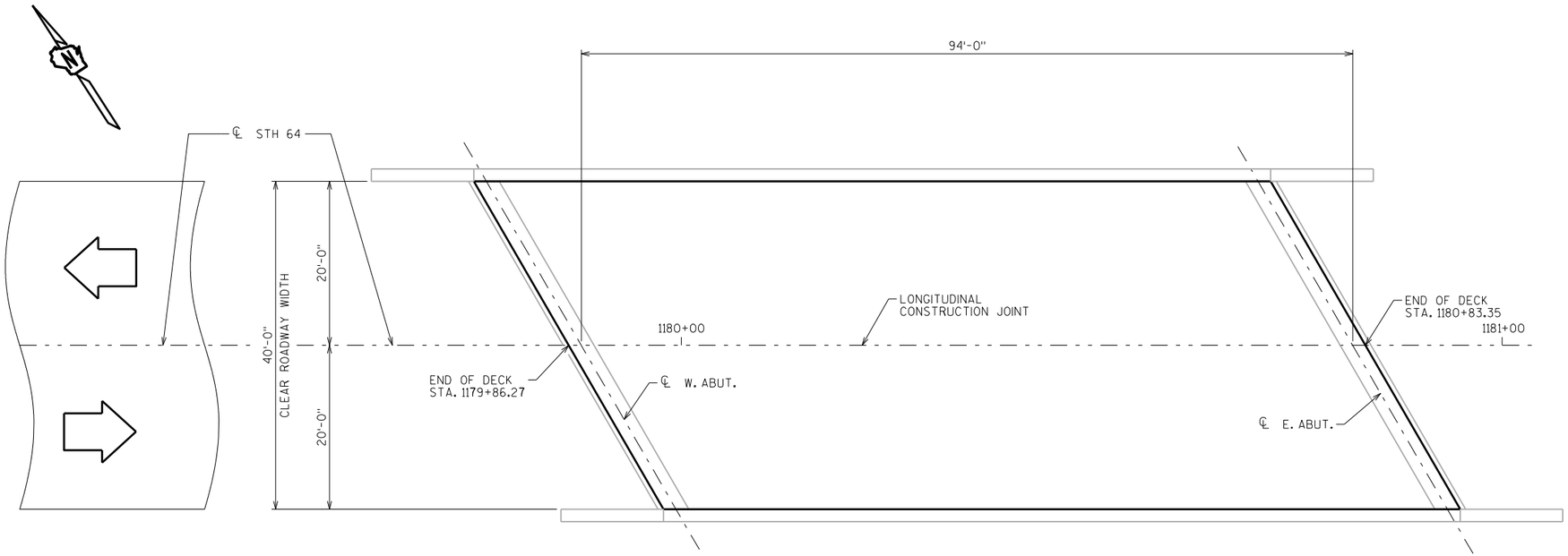
SHEET 2

87

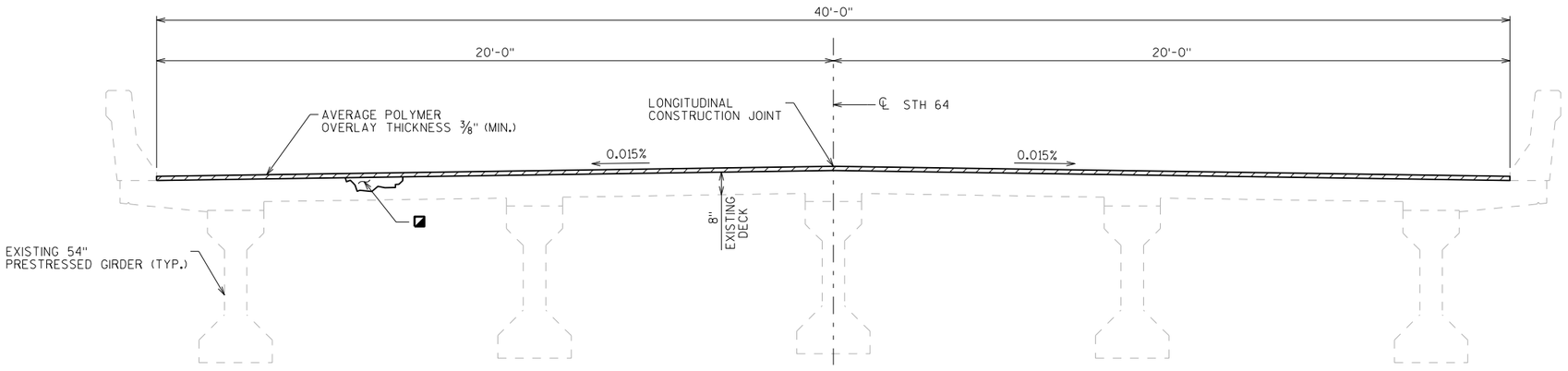
SCALE = 1.5

STATE PROJECT NUMBER

9015-12-70



PLAN



CROSS SECTION THRU ROADWAY

LOOKING EAST

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.0301	PREPARATION DECKS TYPE 1	SY	46
509.0302	PREPARATION DECKS TYPE 2	SY	23
509.2000	FULL DEPTH DECK REPAIR	SY	4
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	7
509.5100.S	POLYMER OVERLAY	SY	682
SPV.0090	SAWING PAVEMENT DECK PREPARATION AREAS	LF	730

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HS-20

OPERATING RATING: HS-44

MAXIMUM STARNDARD PERMIT VEHICLE LOAD: 250 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE TO SCALE.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

DEFINE LIMITS OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", & "FULL DEPTH DECK REPAIR" WITH A 1" DEEP SAW CUT BEFORE REMOVING DETERIORATED CONCRETE. THE SAW CUT SHALL BE PAID AS "SAWING PAVEMENT DECK PREPARATION AREAS".

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BLAST CLEAN THE ENTIRE SURFACE AND ALL EXPOSED REINFORCING STEEL TO ALL "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL DEPTH DECK REPAIR" AREAS BY MECHANICALLY DISLODGING CONTAMINATION OR DEBRIS AND REMOVING LOOSE PARTICLES AND DUST WITH HIGH PRESSURE WATER OR AIR. ENSURE THAT NO FREE-STANDING WATER REMAINS BEFORE PLACING GROUT AND THAT CLEANING WATER CONFORMS TO 501.2.4. CLEANING OF EXPOSED AREAS IS INCIDENTAL TO "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL DEPTH DECK REPAIR" BID ITEMS.

QUANTITY FOR OVERLAY ON APPROACHES IS INCLUDED IN THE QUANTITY FOR "POLYMER OVERLAY" BID ITEM.

CONCRETE FOR "CONCRETE MASONRY OVERLAY DECKS" SHALL MEET THE REQUIREMENTS OF SECTION 509.2.2.1 OF THE STANDARD SPECIFICATIONS. BID ITEM INCLUDES CONCRETE FOR "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", & "FULL DEPTH DECK REPAIR".

LIST OF DRAWINGS

1. POLYMER OVERLAY
2. CONSTRUCTION STAGING

STRUCTURE CONTACTS:

JONATHON RESHESKE (608) 266-8491

LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS — CHIEF STRUCTURES DESIGN ENGINEER — 4/2/14 DATE

STRUCTURE B-34-11

STH 64 OVER EAST BRANCH EAU CLAIRE RIVER

COUNTY	TOWN ~~CITY/VILLAGE~~
LANGLADE	ACKLEY

DESIGN SPEC.	
REHABILITATION	N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JLR	KCY	JLR	TAB

POLYMER OVERLAY

SHEET 1 OF 2

88

I.D. 9015-12-30B

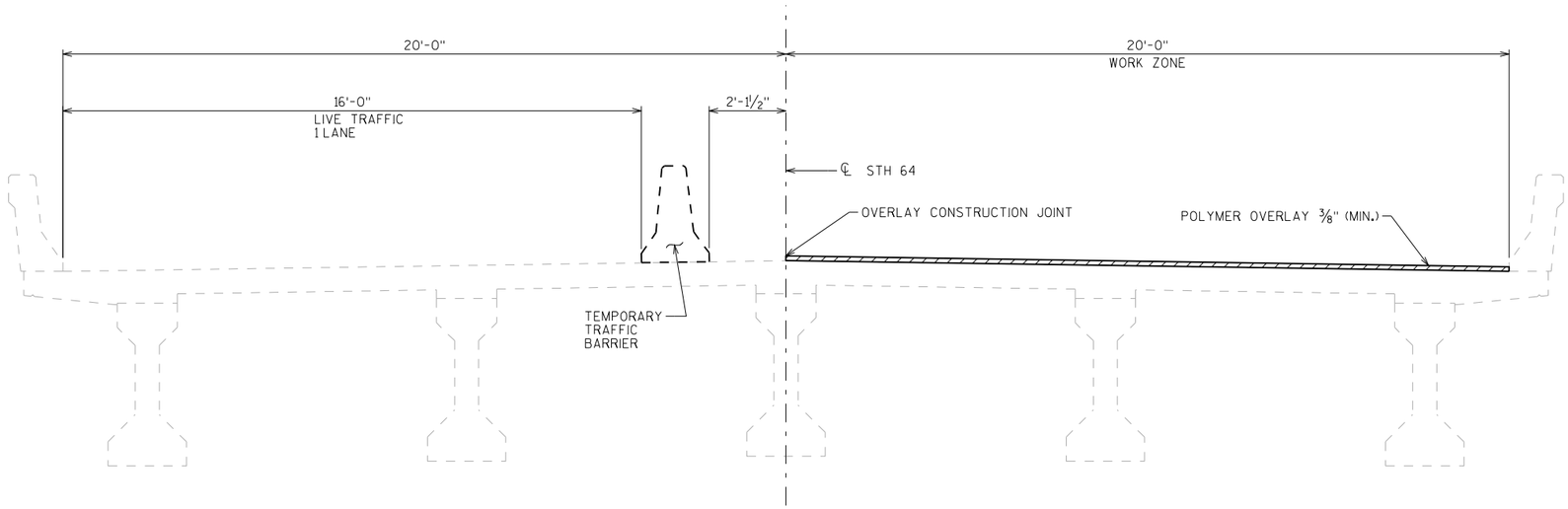
DATE: JAN 2014

SCALE = 8

8

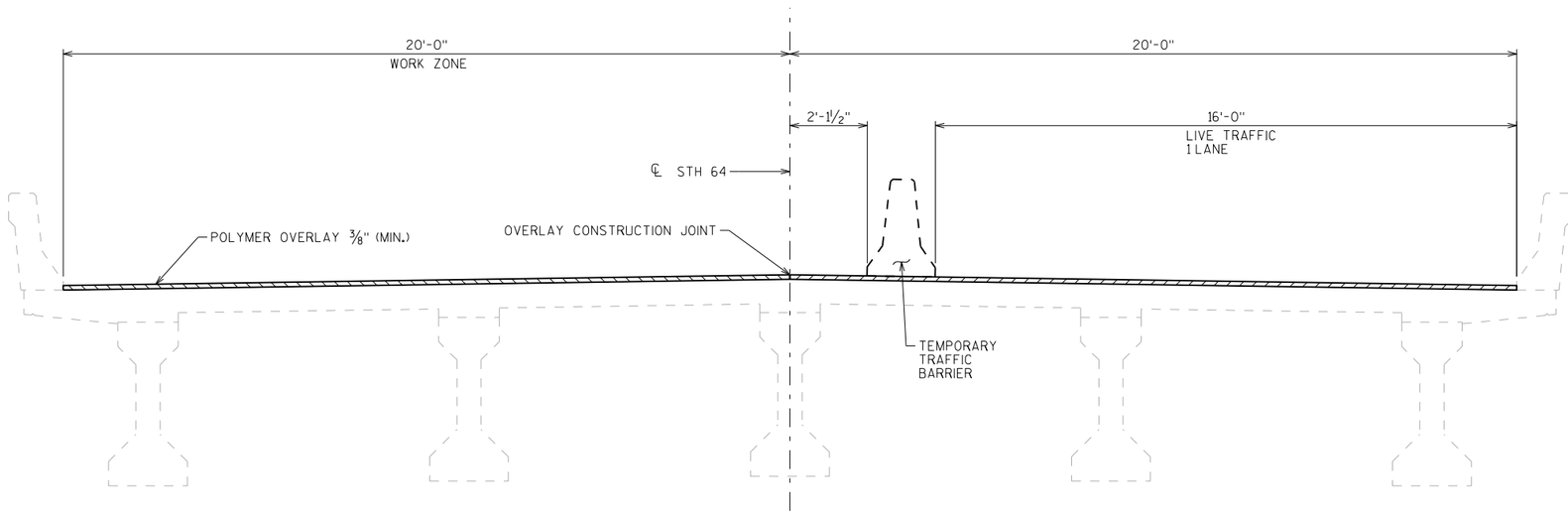
8

STATE PROJECT NUMBER
9015-12-70



STAGE 1 CONSTRUCTION

LOOKING EAST



STAGE 2 CONSTRUCTION

LOOKING EAST

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-34-11

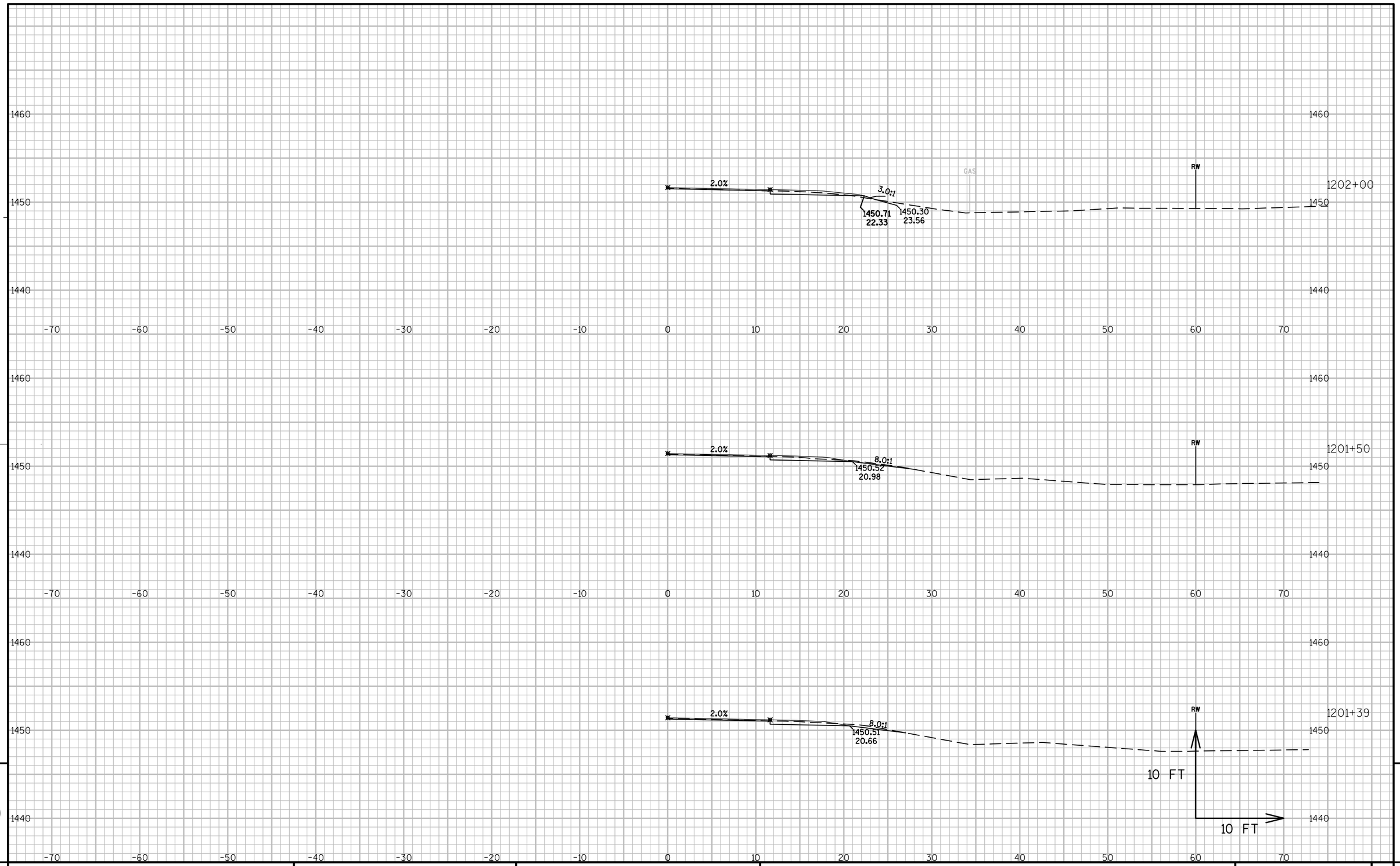
DRAWN BY JLR | PLANS CK'D. TAB

CONSTRUCTION STAGING

SHEET 2

89

SCALE = 2



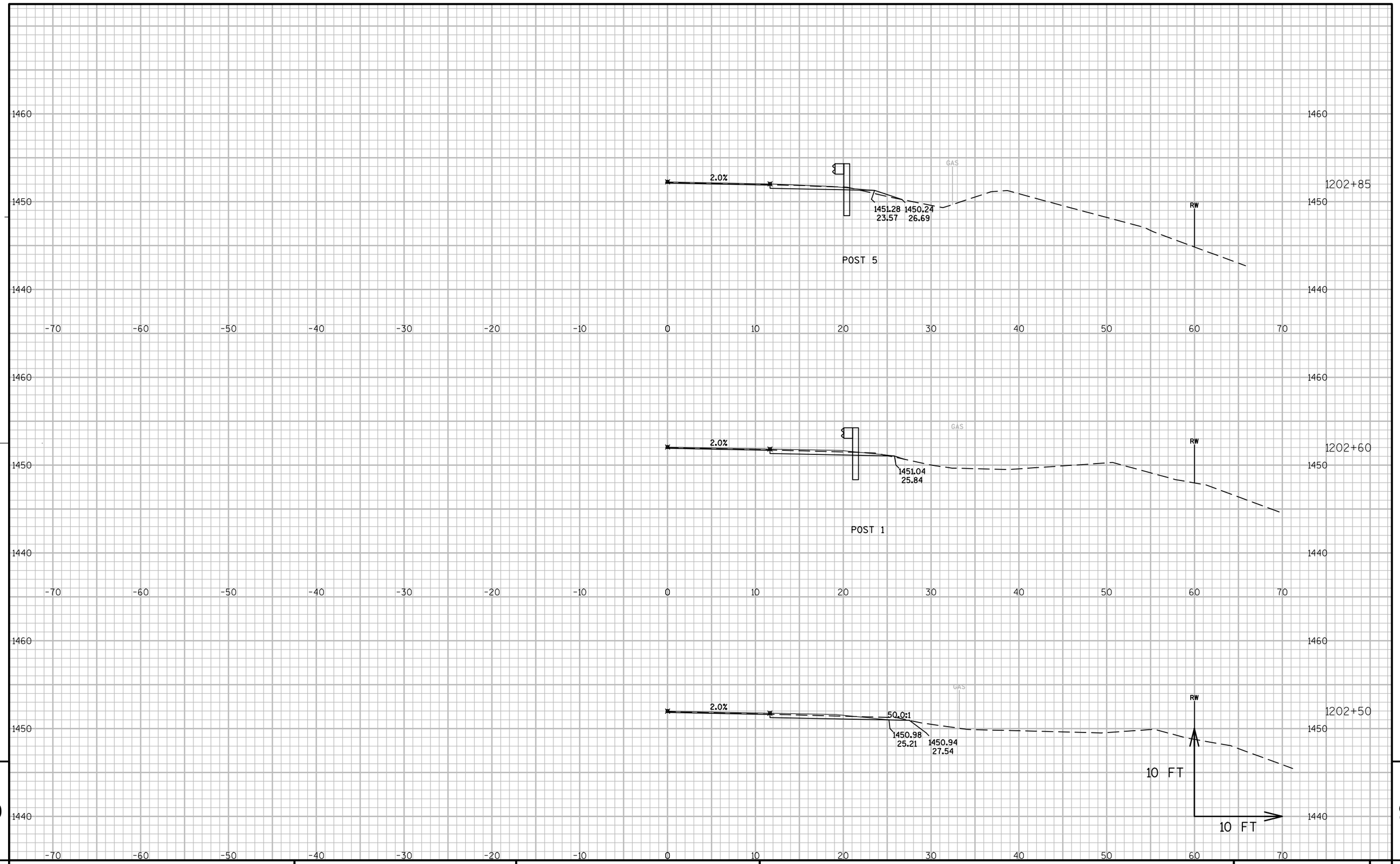
9

9

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: EAU CLAIRE RIVER	SHEET 90	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090201_xs PLOT DATE : 1/7/2014 10:25 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT

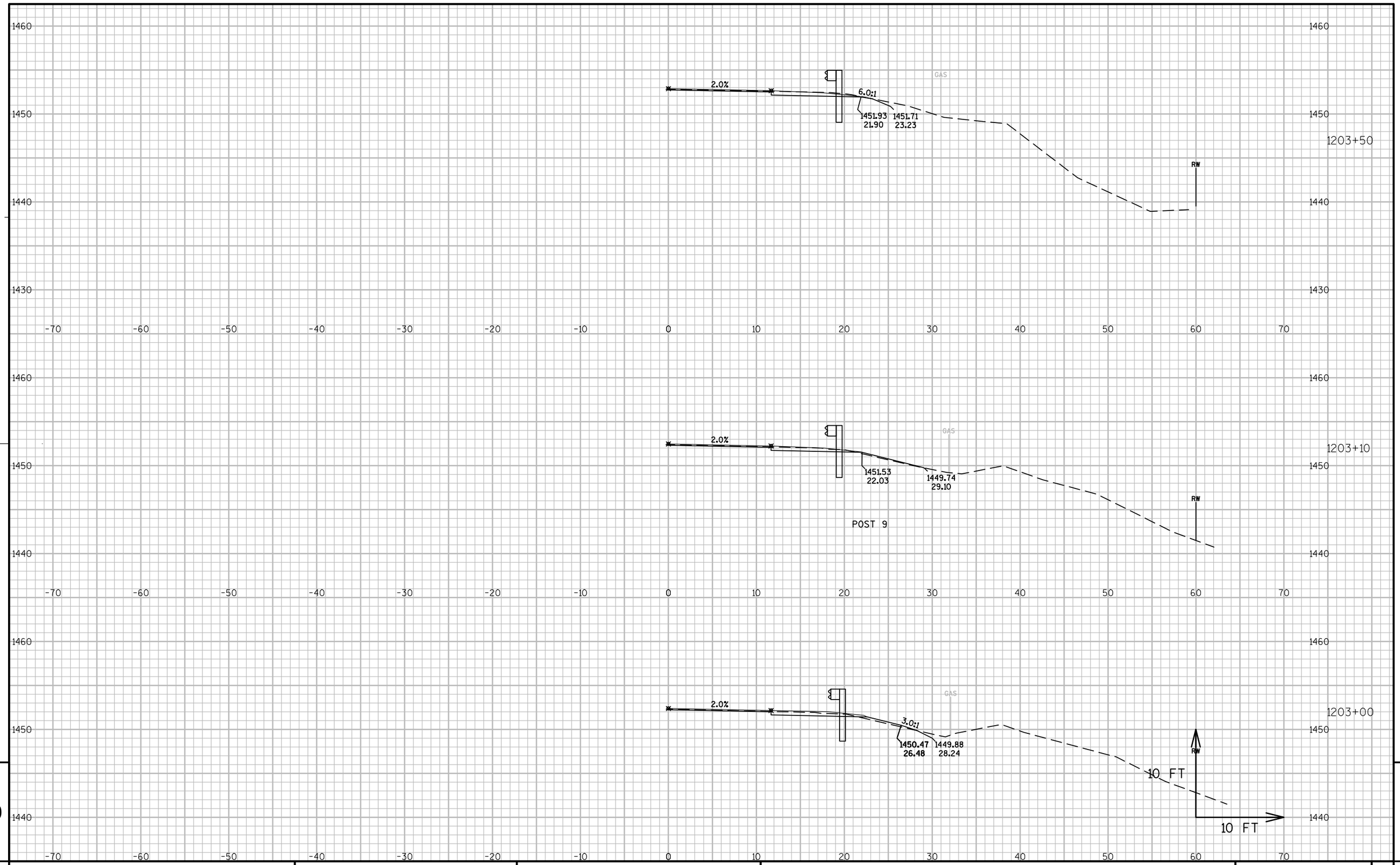
WISDOT/CADDS SHEET 49



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: EAU CLAIRE RIVER	SHEET 91	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090202_xs PLOT DATE : 1/7/2014 10:25 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

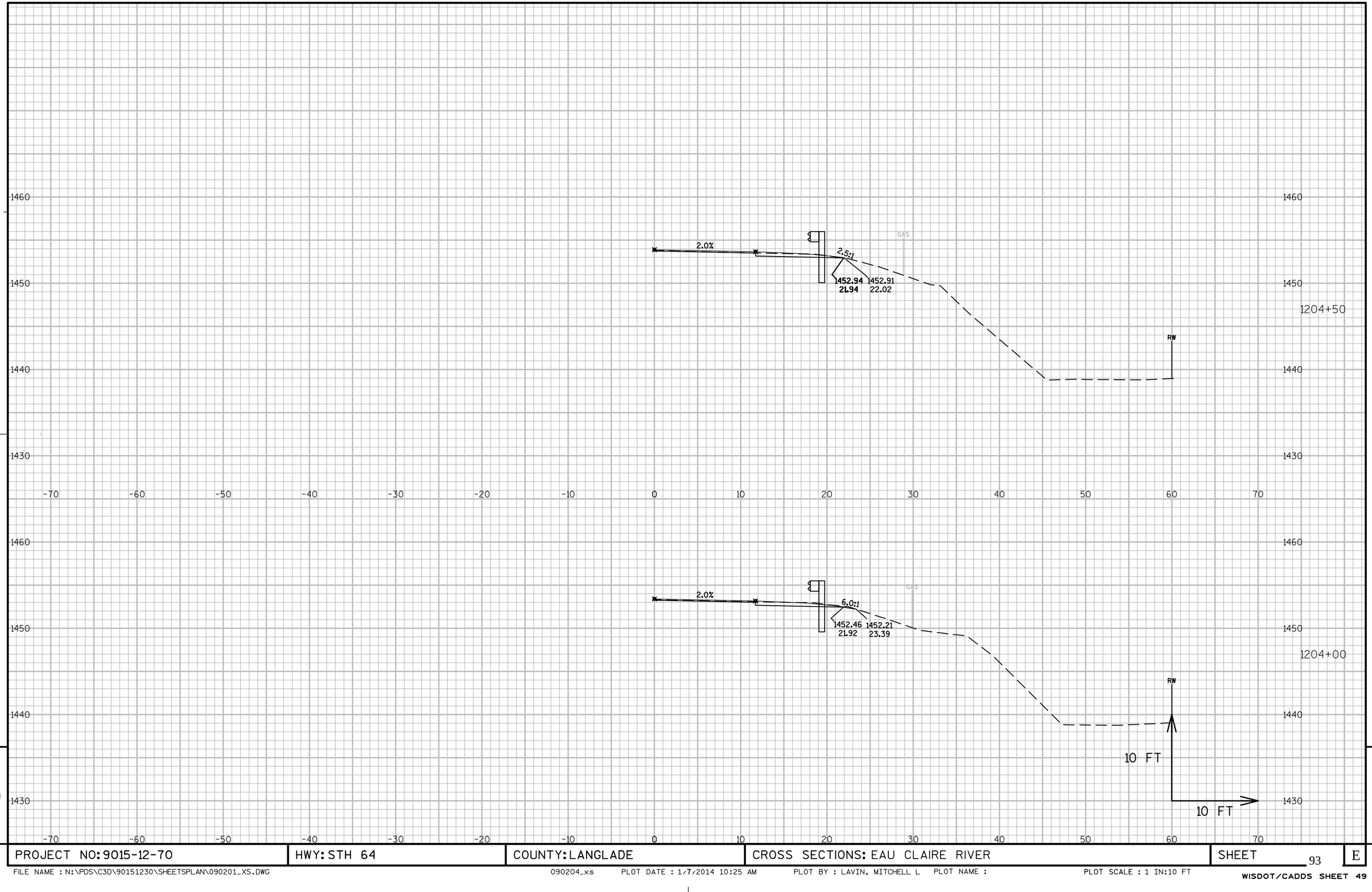


9

9

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: EAU CLAIRE RIVER	SHEET	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090203_xs PLOT DATE : 1/7/2014 10:25 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT



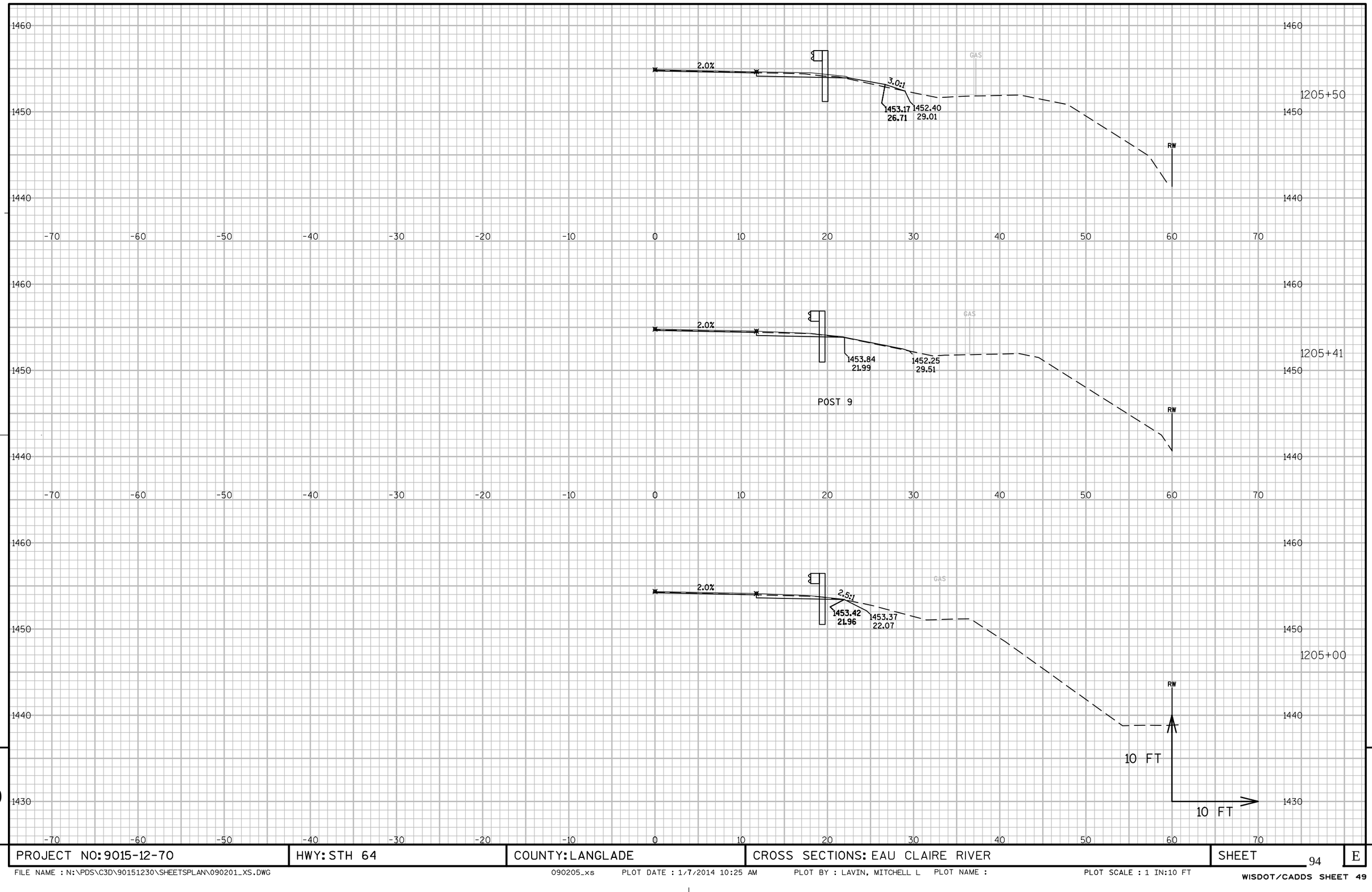
9

9

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: EAU CLAIRE RIVER	SHEET	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090204_xs PLOT DATE : 1/7/2014 10:25 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT

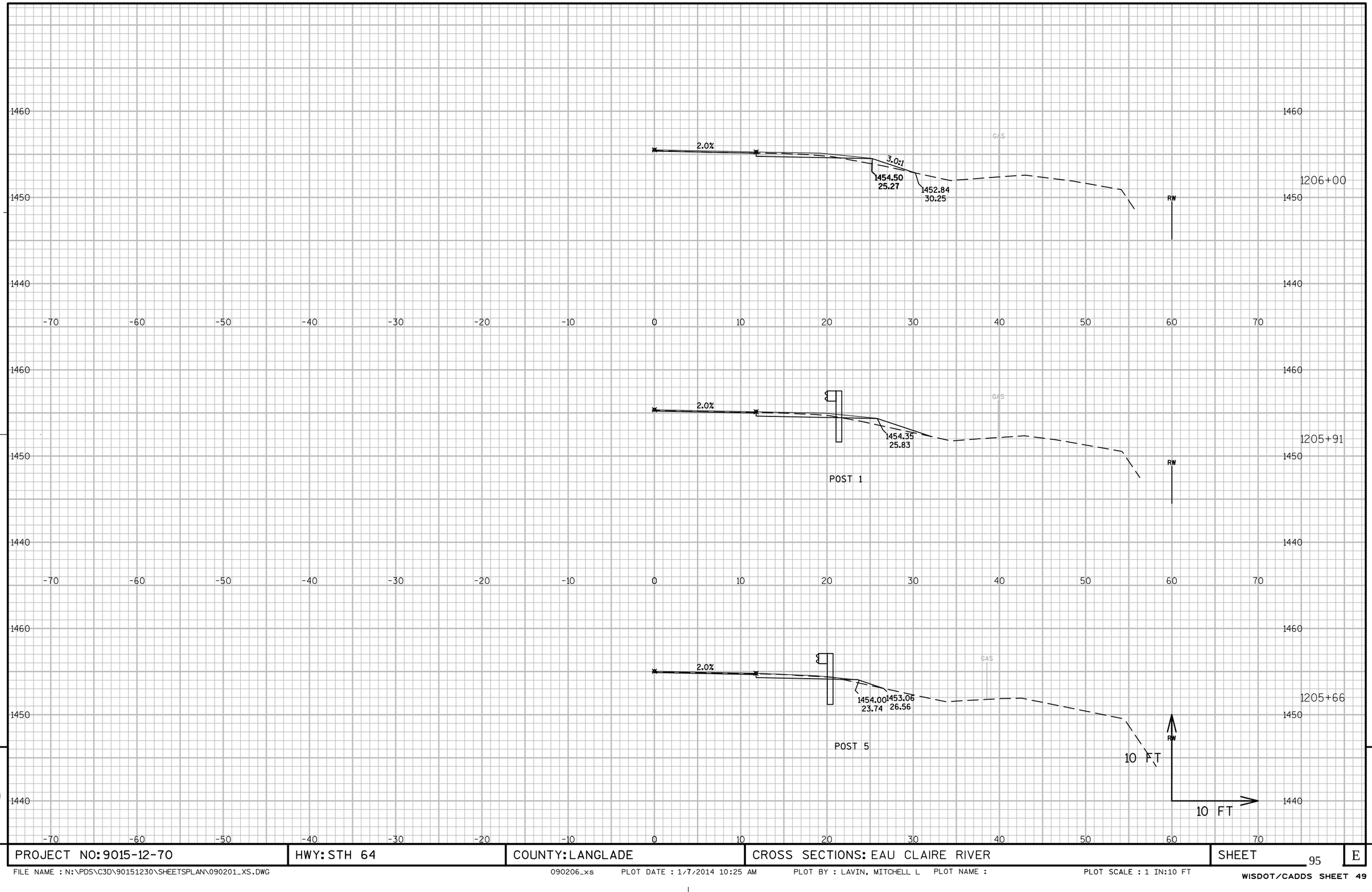
WISDOT/CADDS SHEET 49



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: EAU CLAIRE RIVER	SHEET 94	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090205_xs PLOT DATE : 1/7/2014 10:25 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT

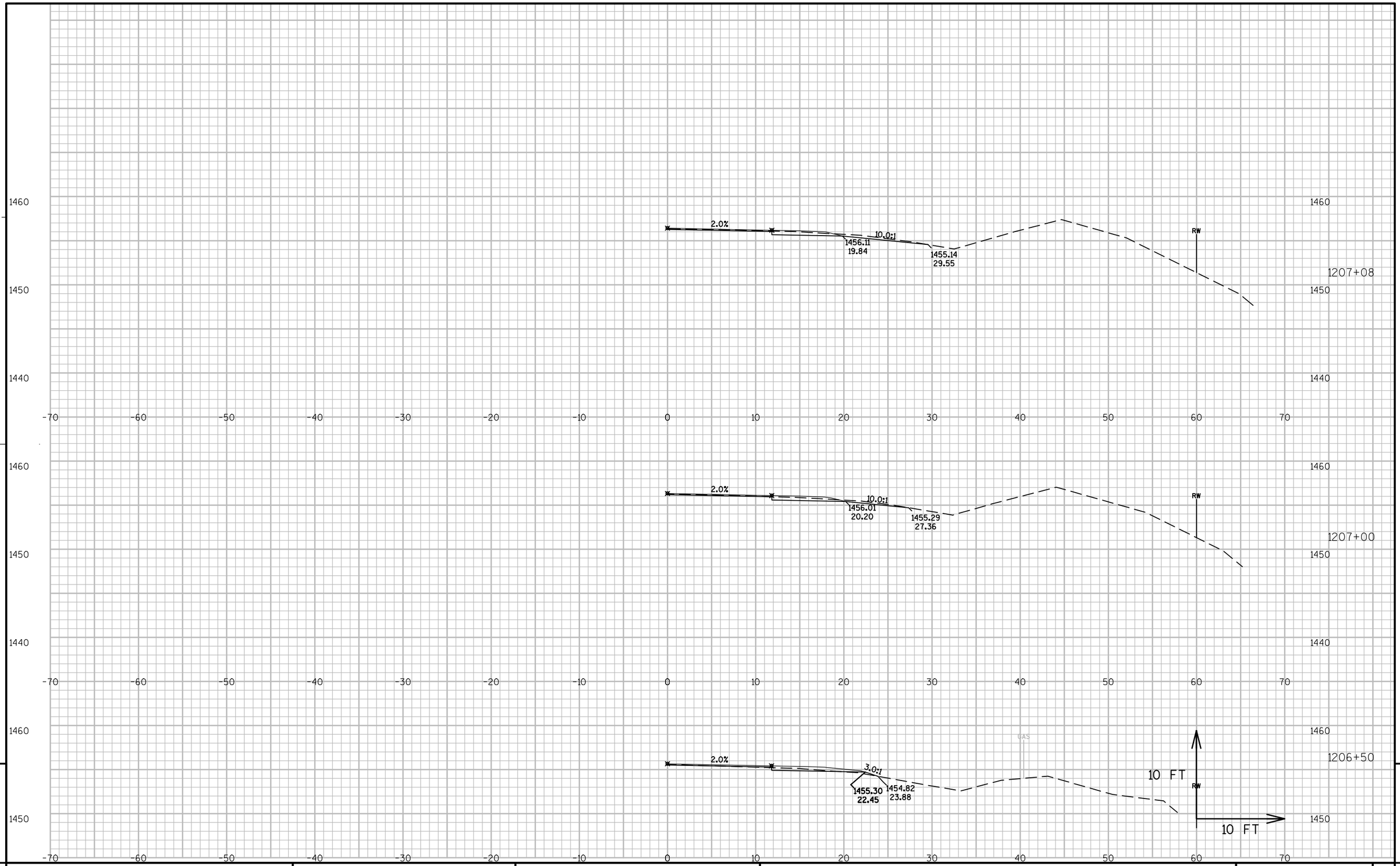
WISDOT/CADDS SHEET 49



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: EAU CLAIRE RIVER	SHEET 95	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090206_xs PLOT DATE : 1/7/2014 10:25 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT

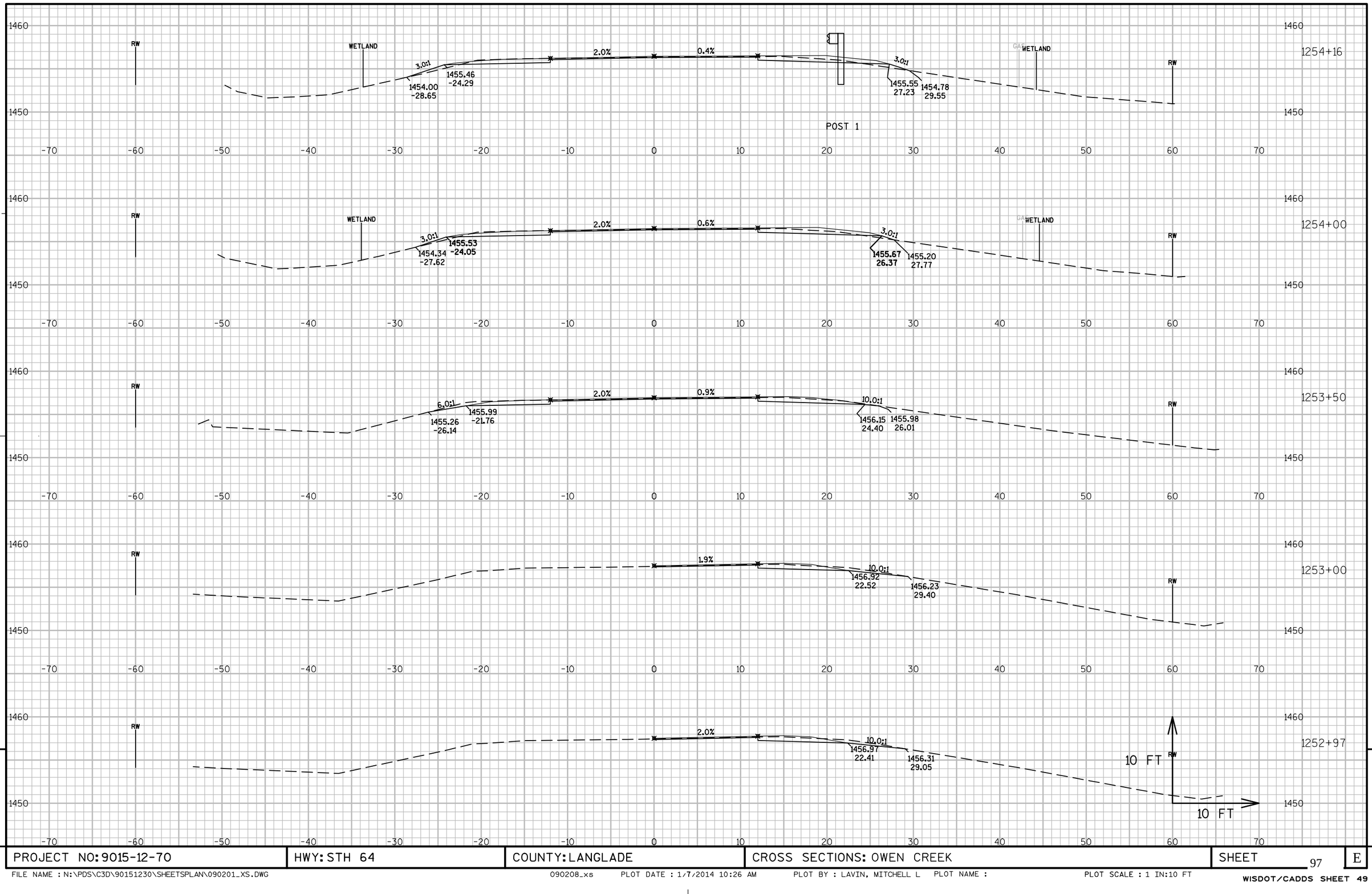
WISDOT/CADDS SHEET 49



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: EAU CLAIRE RIVER	SHEET 96	E

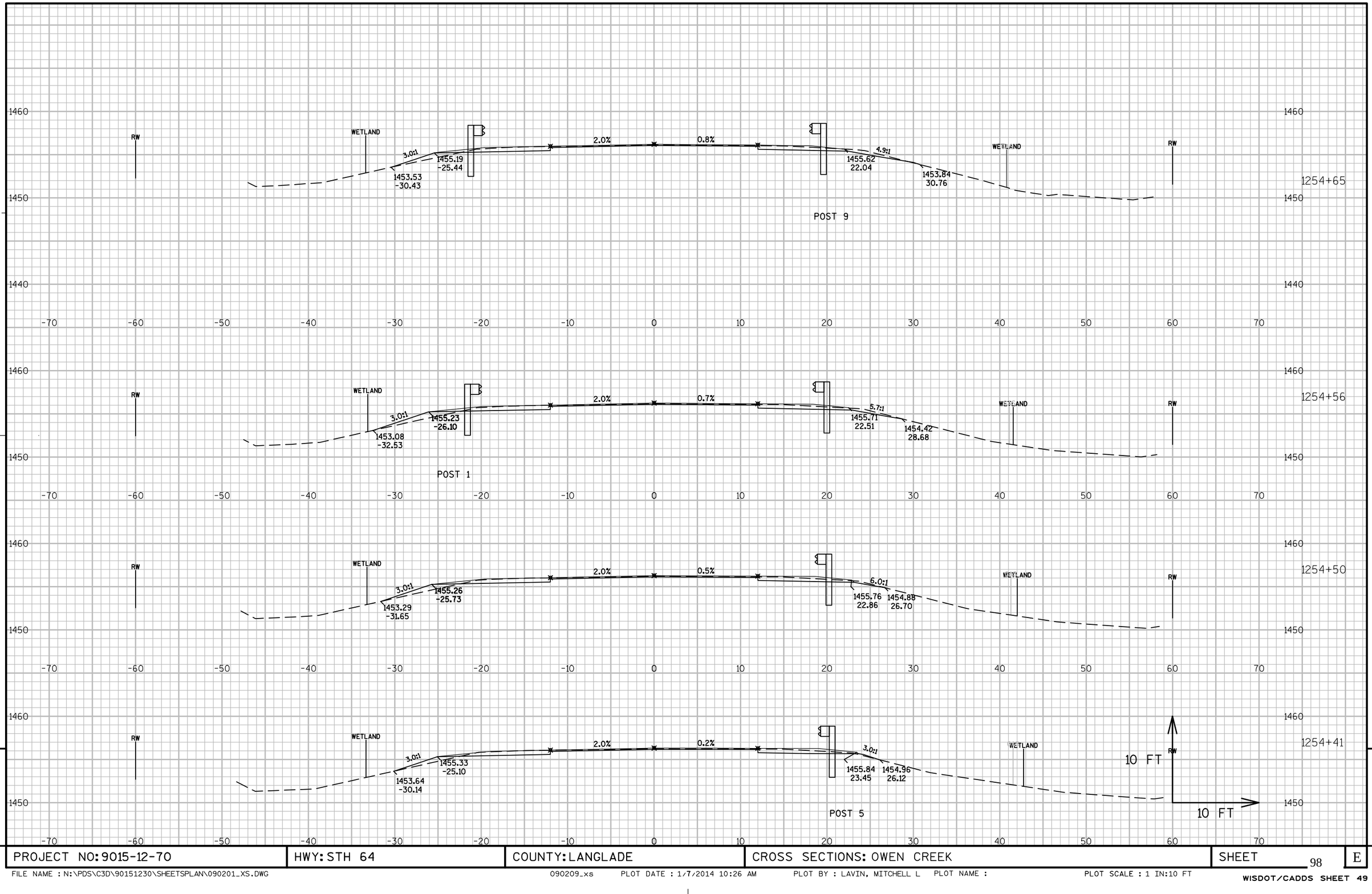
FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090207_xs PLOT DATE : 1/7/2014 10:26 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: OWEN CREEK	SHEET 97	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090208_xs PLOT DATE : 1/7/2014 10:26 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT



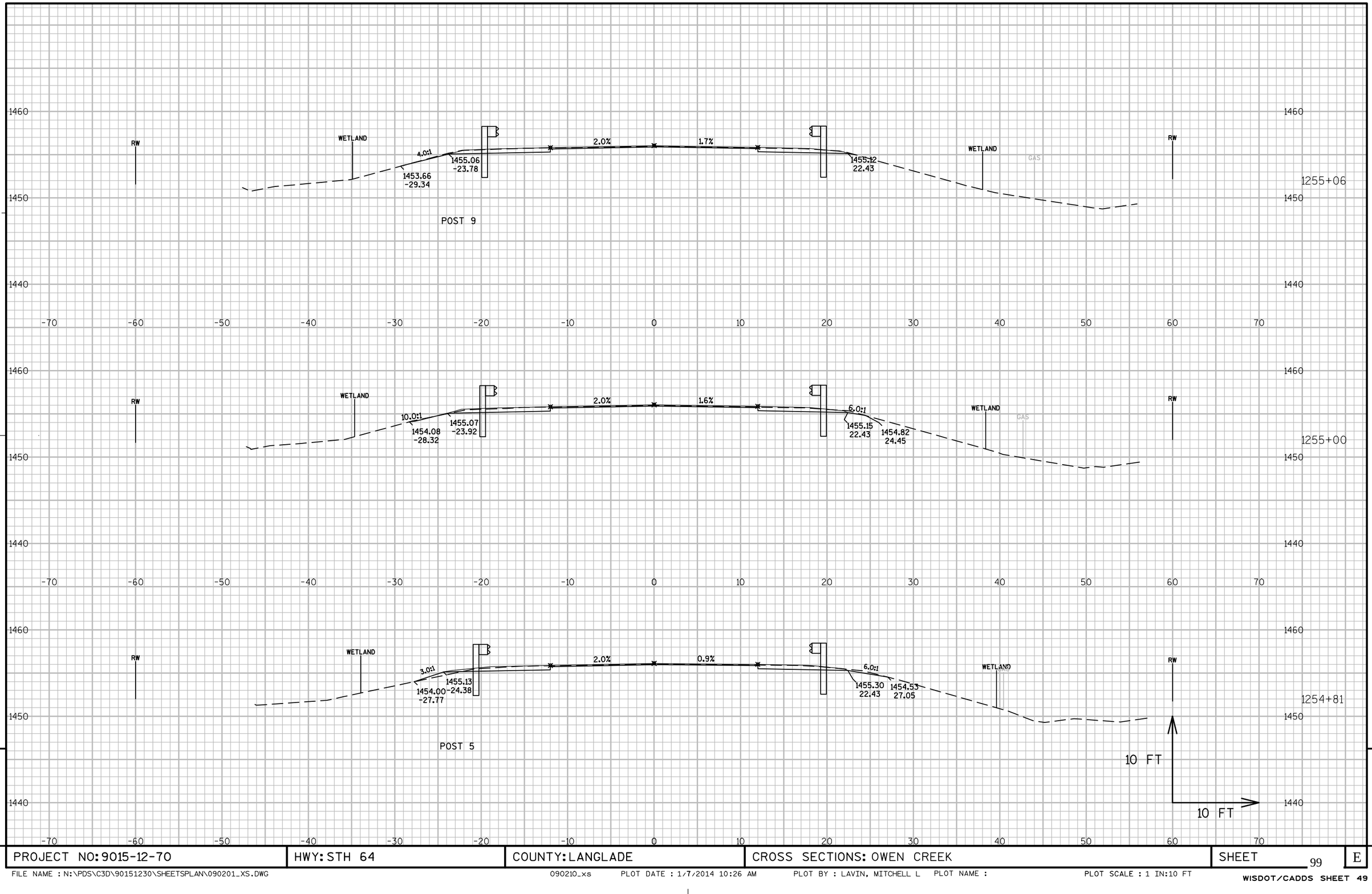
9

9

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: OWEN CREEK	SHEET 98	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090209_xs PLOT DATE : 1/7/2014 10:26 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



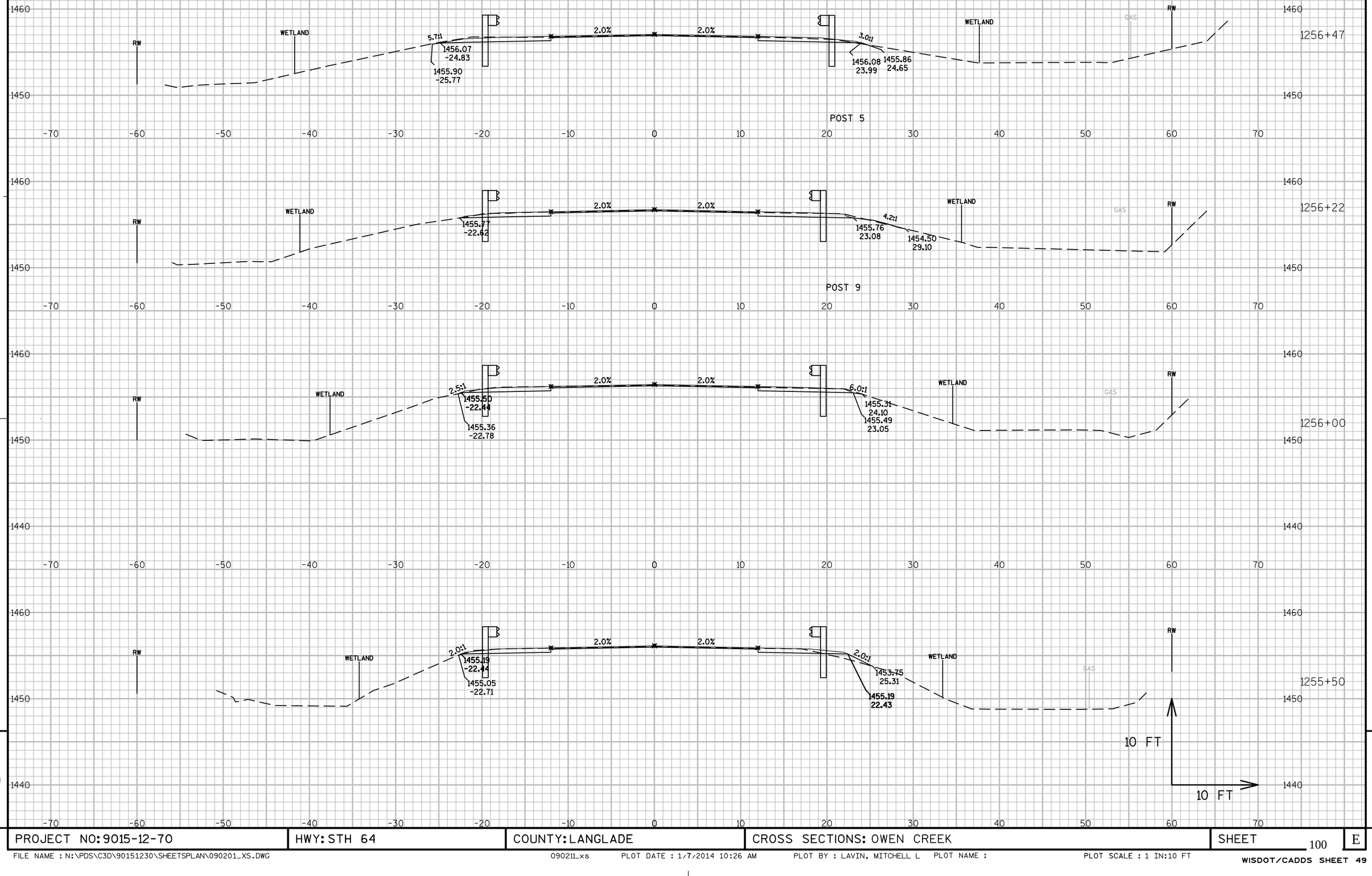
9

9

PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: OWEN CREEK	SHEET 99	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090210_xs PLOT DATE : 1/7/2014 10:26 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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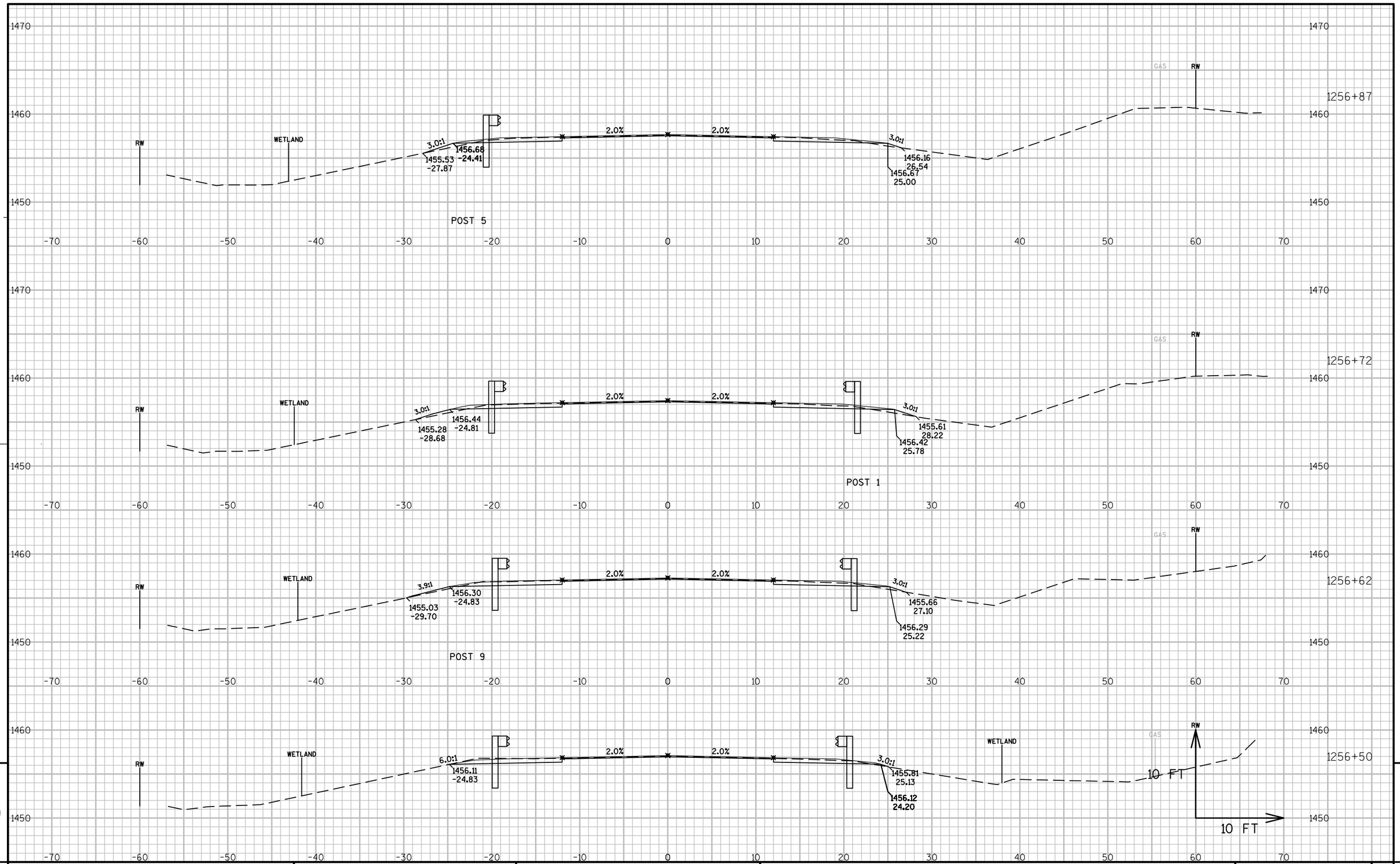
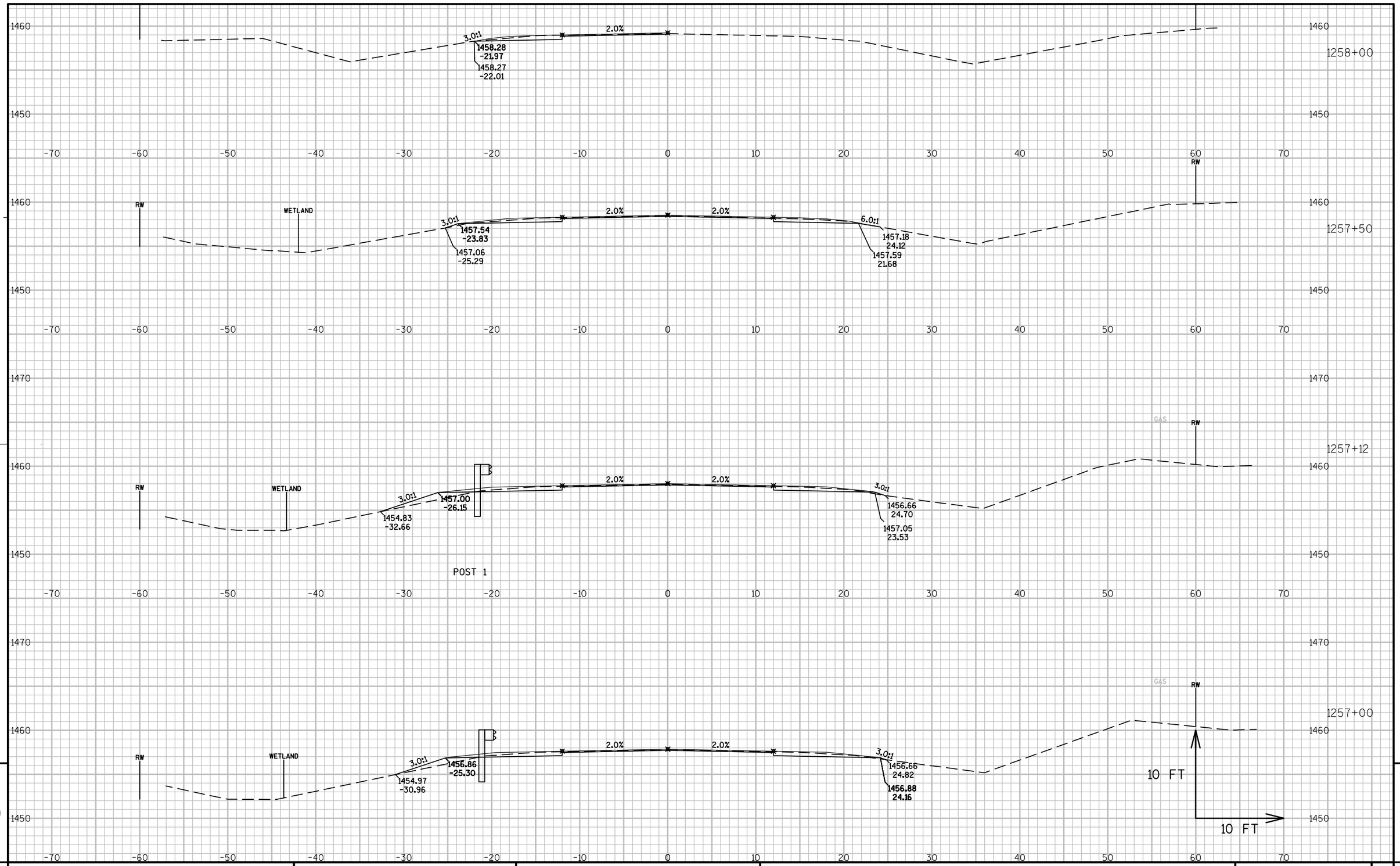
PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: OWEN CREEK	SHEET 100	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090211_xs PLOT DATE : 1/7/2014 10:26 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: OWEN CREEK	SHEET 101	E



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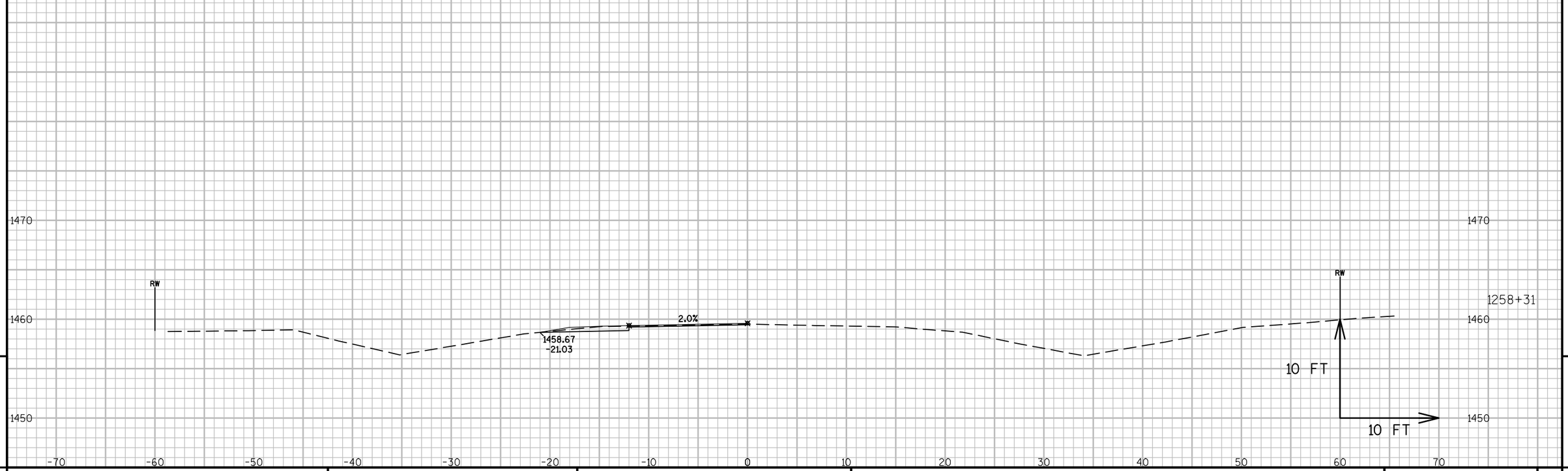
PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: OWEN CREEK	SHEET 102	E

FILE NAME : N:\PDS\C3D\90151230\SHEETSPLAN\090201_XS.DWG 090213_xs PLOT DATE : 1/7/2014 10:26 AM PLOT BY : LAVIN, MITCHELL L PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 9015-12-70	HWY: STH 64	COUNTY: LANGLADE	CROSS SECTIONS: OWEN CREEK	SHEET 103	E

Wisconsin Department of Transportation

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