SUP NOVEMBER 2014

PROJECT ID: 8010-01-75
WITH: 8010-01-78

COUNTY: BURNETT

ORDER OF SHEETS

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

TOTAL SHEETS = 336

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SIREN - DANBURY

STH 70 NORTH INTERSECTION

STH 35

BURNETT COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8010-01-75	WISC 2014399	1
8010-01-78	———	—

N

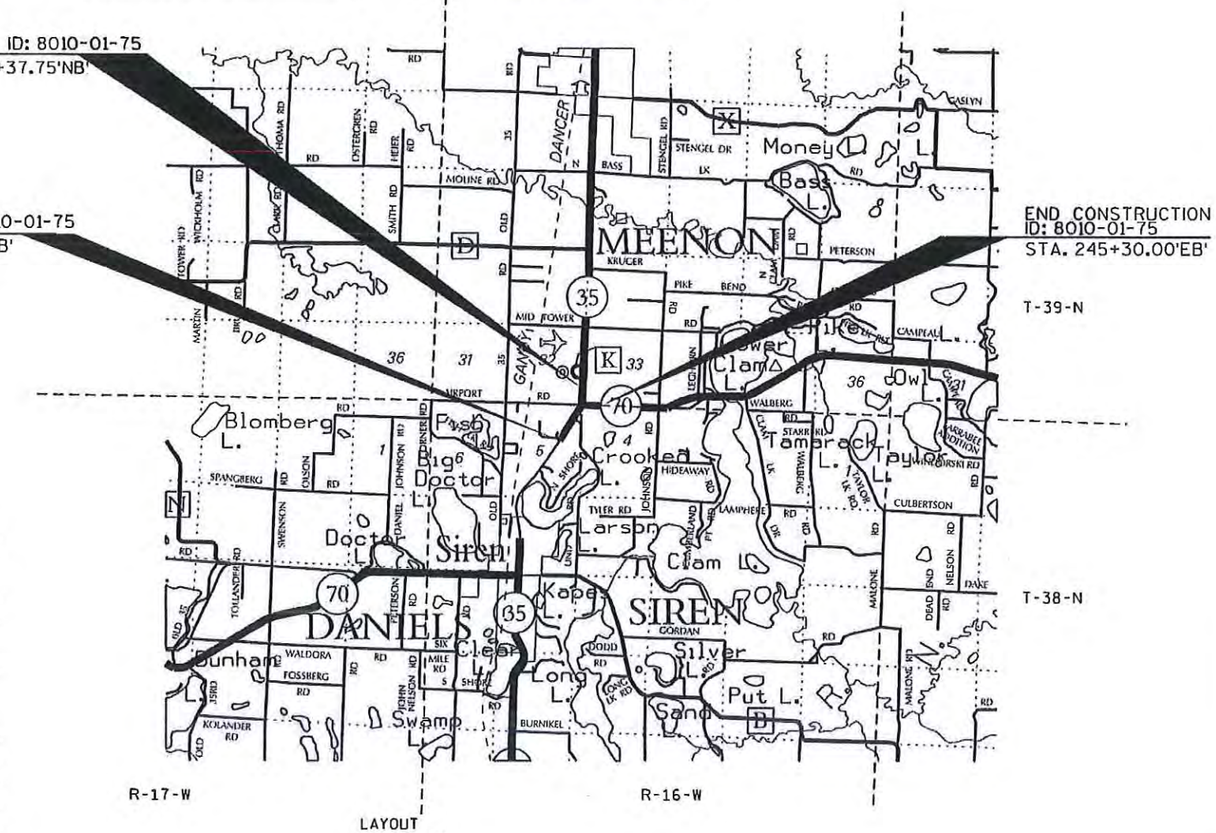
STATE PROJECT NUMBER 8010-01-75

STATE PROJECT NUMBER 8010-01-78

END PROJECT ID: 8010-01-75
STA. 50+37.75'NB

BEGIN PROJECT ID: 8010-01-75
STA 10+88.42'NB'
Y = 163,667.29
X = 232,716.63

END CONSTRUCTION ID: 8010-01-75
STA. 245+30.00'EB'



LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.017 MI.
(0.748 MI. STH 35)
(0.269 MI. STH 70)

-"COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), 'BURNETT' COUNTY, NAD 1983 (2007)."

-"ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO VERTICAL DATUM NAVD 88 (2007)."

DESIGN DESIGNATION

		STH 35	STH 70
A.A.D.T. (2013)	=	8,400	5,000
A.A.D.T. (2033)	=	10,300	6,200
D.H.V.	=	9.7%	9.7%
D.D.	=	63/37	63/37
T.	=	14.5%	14.5%
DESIGN SPEED	=	60	60
ESALS	=	2,584,2000 (INTERSECTION)	

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

ORIGINAL PLANS PREPARED BY

GHD, Inc.,
5325 Wall Street, Suite 2305
T 608 249 4545 F 608 249 4402
E madison@ghd.com W www.ghd.com

WISCONSIN
BEN C. WILKINSON
E-36032
MADISON
WISCONSIN
PROFESSIONAL ENGINEER

DATE: 4.22.14 Ben C. Wilkinson (Professional Engineer)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES ASSOCIATES
Designer	GHD INC.
Project Manager	DIANE SLICK
Regional Examiner	DAN OJIBWAY
Regional Supervisor	ANDREW STENSLAND
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 4/25/14 Andy Stensland (Signature)

E

2

SECTION 2 ORDER OF SHEETS

GENERAL NOTES & UTILITY CONTACTS
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PAVING DETAILS
EROSION CONTROL
STORM SEWER
UTILITY PLAN
PERMANENT SIGNING
LIGHTING
PAVEMENT MARKING
TRAFFIC CONTROL STAGING
ALIGNMENT LAYOUT

DESIGN CONTACTS

BEN WILKINSON
GHD INC.
5325 WALL STREET, SUITE 2305
MADISON, WI 53718
PHONE: (608)249-4545
BEN.WILKINSON@GHD.COM

DIANE SLICK
WISCONSIN DEPARTMENT OF TRANSPORTATION
NORTHWEST REGION
1701 N 4TH STREET
SUPERIOR, WI 54880
PHONE: (715) 395-3020
DIANE.SLICK@DOT.WI.GOV

DESIGNER NOTES

DESIGN PLANS, SPECIFICATIONS, AND ESTIMATES FOR LIGHTING PROVIDED BY AYRES ASSOCIATES.

DESIGN PLANS, SPECIFICATIONS, AND ESTIMATES FOR SANITARY SEWER PROVIDED BY MSA PROFESSIONAL SERVICES, INC.

ALL OTHER DESIGN PLANS, SPECIFICATIONS, AND ESTIMATES PROVIDED BY GHD INC.

UTILITY CONTACTS

LEWIS KNAPP
WE ENERGIES (GAS)
1921 EIGHTH SOUTH STREET
WISCONSIN RAPIDS, WI 54494-0789
PHONE: (715) 234-9605
E-MAIL: Lewis.Knapp@we-energies.com

BLAKE DOUGLAS
POLK BURNETT ELECTRIC CO-OP
1001 STATE ROAD 35
CENTURA, WI 54824
PHONE: (715) 646-2191
E-MAIL: bdouglas@polk-burnett

DUWAYNE WIBERG
SIREN SANITARY DISTRICT #1
PO BOX 23
SIREN, WI 54872
PHONE: (715) 222-3144
E-MAIL:

SID SHERSTAD
SIREN COMMUNICATIONS
PO BOX 506
SIREN, WI 54872-0506
PHONE: (715) 349-2223
E-MAIL: sherstad@sirentel.net

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

DNR CONTACT

AMY KRONK
ENVIRONMENTAL REVIEW COORDINATOR
NORTHERN REGION HEADQUARTERS
810 WEST MAPLE STREET
SPOONER, WI 54801
(715) 635-4229

GENERAL NOTES

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK.

THE LOCATIONS OF EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

DO NOT TOPSOIL OR MULCH IN THE SPECIAL DITCH AREA. ALL OTHER DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE TOPSOILED, FERTILIZED, AND SEEDED AS DIRECTED BY THE ENGINEER.

RESTORATION OF EXPOSED SLOPES AND DITCHES SHALL TAKE PLACE IMMEDIATELY AFTER FINISHED GRADING IS COMPLETE.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF THE CURB.

CURB AND GUTTER GRADES ARE MEASURED AT THE FLANGE.

THE LOCATION OF STORM SEWER STRUCTURES REFERS TO THE CENTER OF THE STRUCTURE.

WHEN TEMPORARY PAVEMENT MARKING REMOVABLE TAPE IS REQUIRED, IT SHALL BE CUT THROUGH ITS FULL WIDTH AND THICKNESS AT 25 FOOT INTERVALS.

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS, AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, OR PASSING LANE.

DO NOT STORE CONSTRUCTION EQUIPMENT OR MATERIALS WITHIN WETLAND AREAS.

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS

	LAYER DEPTH	COMMENTS
7.5" PAVEMENT	2-INCH UPPER LAYER 2.75-INCH LOWER LAYER 2.75-INCH LOWER LAYER	CONFORM TO E-10 SPECIFICATIONS OF THE SPECIAL PROVISION
AIRPORT ROAD AND DRIVEWAYS (4" PAVEMENT)	2-INCH UPPER LAYER 2-INCH LOWER LAYER	CONFORM TO ASPHALTIC SURFACE SPECIAL SPECIFICATIONS OF THE SPECIAL PROVISION
3.5" SHOULDERS	3.5-INCH LAYER	CONFORM TO ASPHALTIC SURFACE SPECIAL SPECIFICATIONS OF THE SPECIAL PROVISION
TEMPORARY PAVEMENTS	5-INCH LAYER	TEMPORARY ASPHALTIC SURFACE

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\020102_gn.dgn PLOT DATE : 4/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 1.0000 sf / in.

2

MATCHLINE STA. 46+00'NB'

BURNETT
COUNTY
AIRPORT

45'SB'
45'NB'
40'SB'
BIKE PATH
CMCP
STH 35
35'NB'
35'SB'
30'SB'
AIRPORT ROAD
315'A'
310'A'
25'SB'
25'NB'
STH 35/70
20'SB'
20'NB'
300'A'
15'SB'
15'NB'
LIND RD.

END CONSTRUCTION
STA 314+45.00'A'

BEGIN CONSTRUCTION
STA 301+41.90'A'

BEGIN PROJECT
STA 10+88.42'NB'

235'WB'
240'WB'
245'WB'
250'WB'
255'WB'
STH 70
235'EB'
240'EB'
245'EB'
250'EB'
255'EB'

END CONSTRUCTION
STA 245+30.00'EB'

END RECONSTRUCTION
STA 237+00.00'EB'

PROPOSED SNOWMOBILE TRAIL

OVERHEAD SIGN SUPPORT
S-07-0002

N

END PROJECT
STA 50+37.75'NB'

55'
50'SB'
50'NB'
STH 35
CTH "K"

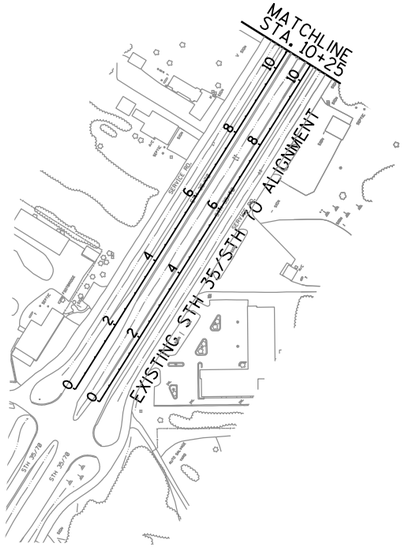
END RECONSTRUCTION
STA 47+09.62'NB'

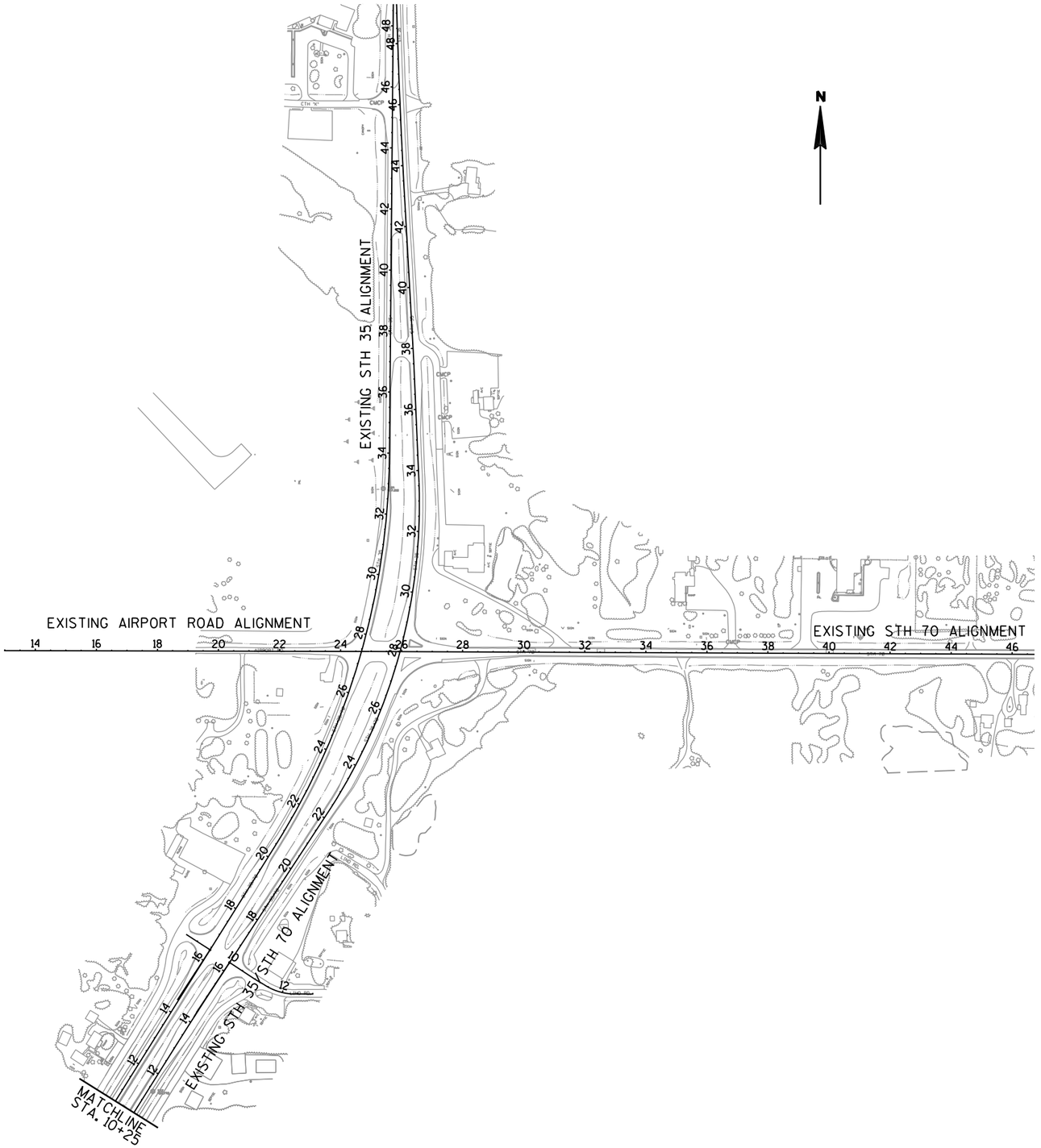
MATCHLINE STA. 46+00'NB'

N

2

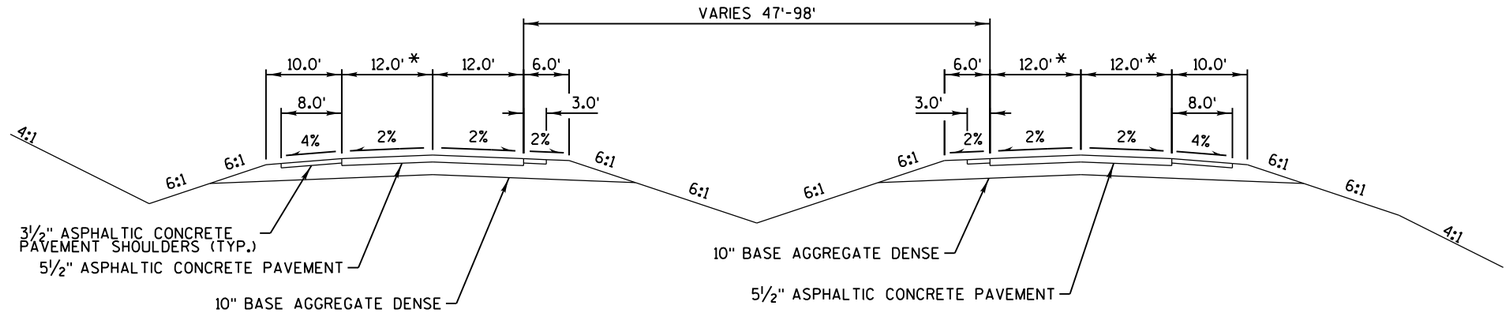
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PROJECT OVERVIEW	SHEET 3	E





2

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EXISTING ALIGNMENT OVERVIEW	SHEET 4	E

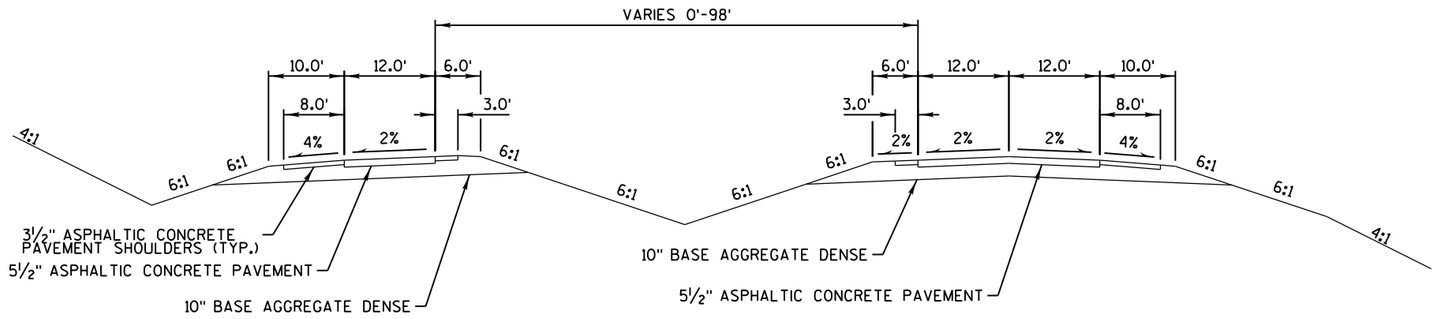


EXISTING TYPICAL SECTION

STH 35/STH 70
STA. 0+00 - STA. 28+00

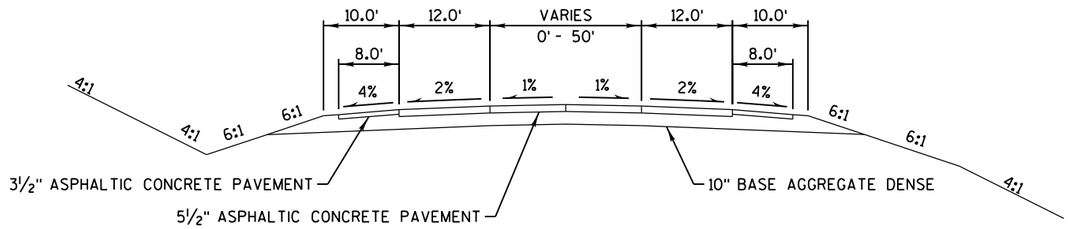
STH 35
STA. 28+00 - STA. 32+00

* LANES WIDEN AT INTERSECTION



EXISTING TYPICAL SECTION

STH 35
STA 32+00 - STA 42+00



EXISTING TYPICAL SECTION

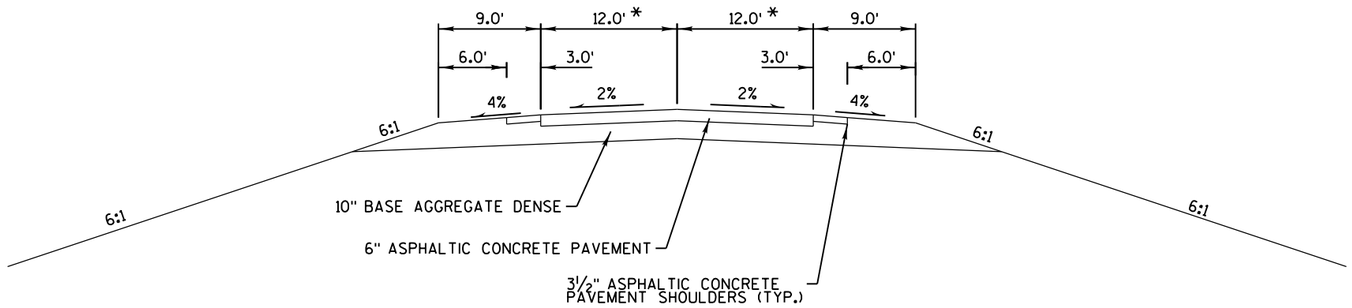
STH 35
STA. 42+00 - STA. 48+00

STATIONING FOR EXISTING TYPICAL SECTIONS IS BASED ON EXISTING ALIGNMENT. SEE EXISTING ALIGNMENT DETAIL SHEET.

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EXISTING TYPICAL SECTIONS	SHEET 5	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\020301_ts.dgn PLOT DATE : 4/29/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 FT / in.

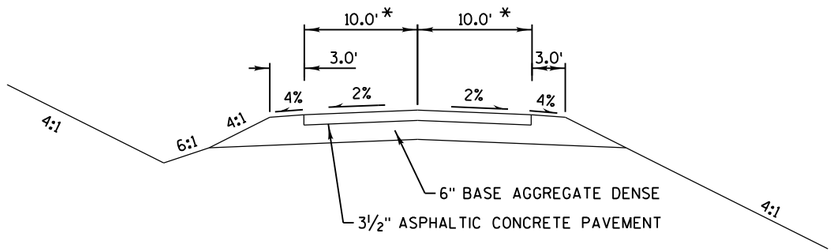
WISDOT/CADDS SHEET 42



* LANES WIDEN AT INTERSECTION

EXISTING TYPICAL SECTION

STH 70
STA. 26+00 - STA. 46+00

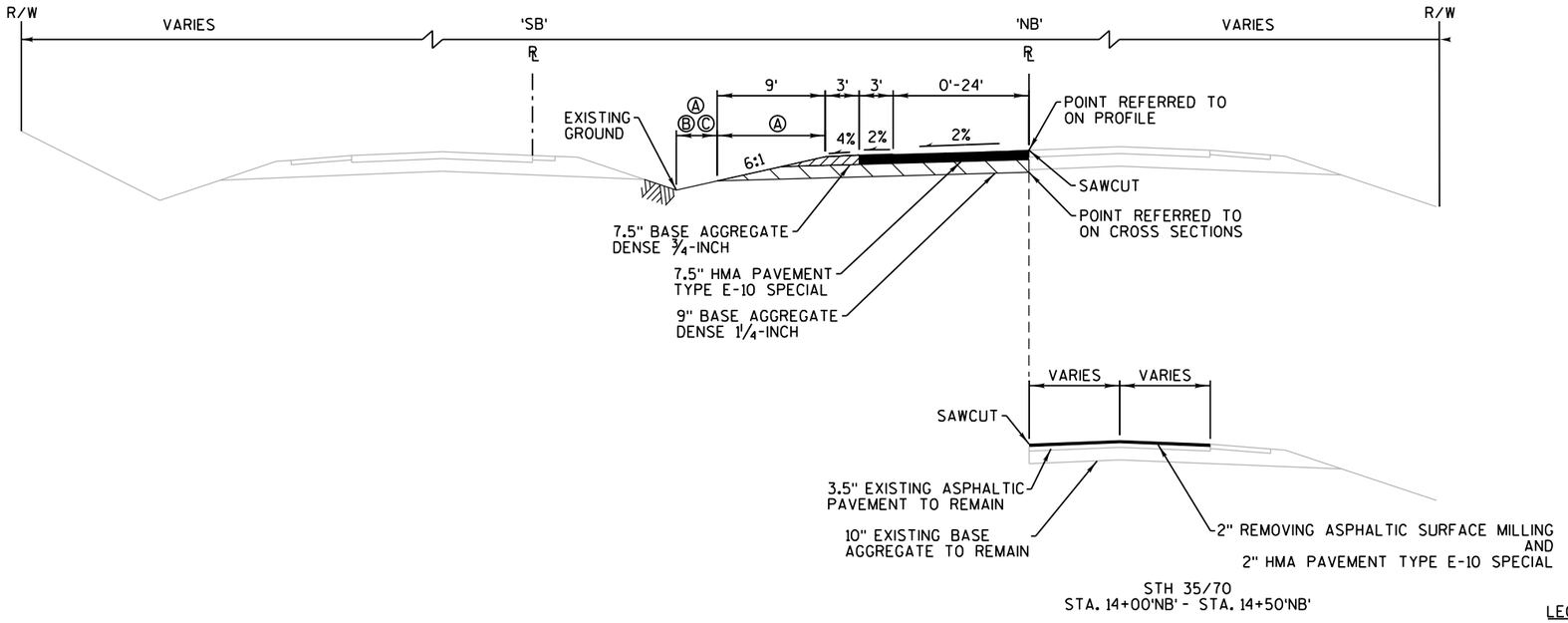


STATIONING FOR EXISTING TYPICAL SECTIONS IS BASED ON EXISTING ALIGNMENT. SEE EXISTING ALIGNMENT DETAIL SHEET.

EXISTING TYPICAL SECTION

AIRPORT ROAD
STA. 16+00 - STA. 24+00

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EXISTING TYPICAL SECTIONS	SHEET 6	E



STH 35/70
STA. 14+00'NB' - STA. 14+50'NB'

FINISHED TYPICAL SECTION

STH 35/70
STA. 10+88'NB' - STA. 14+50'NB'

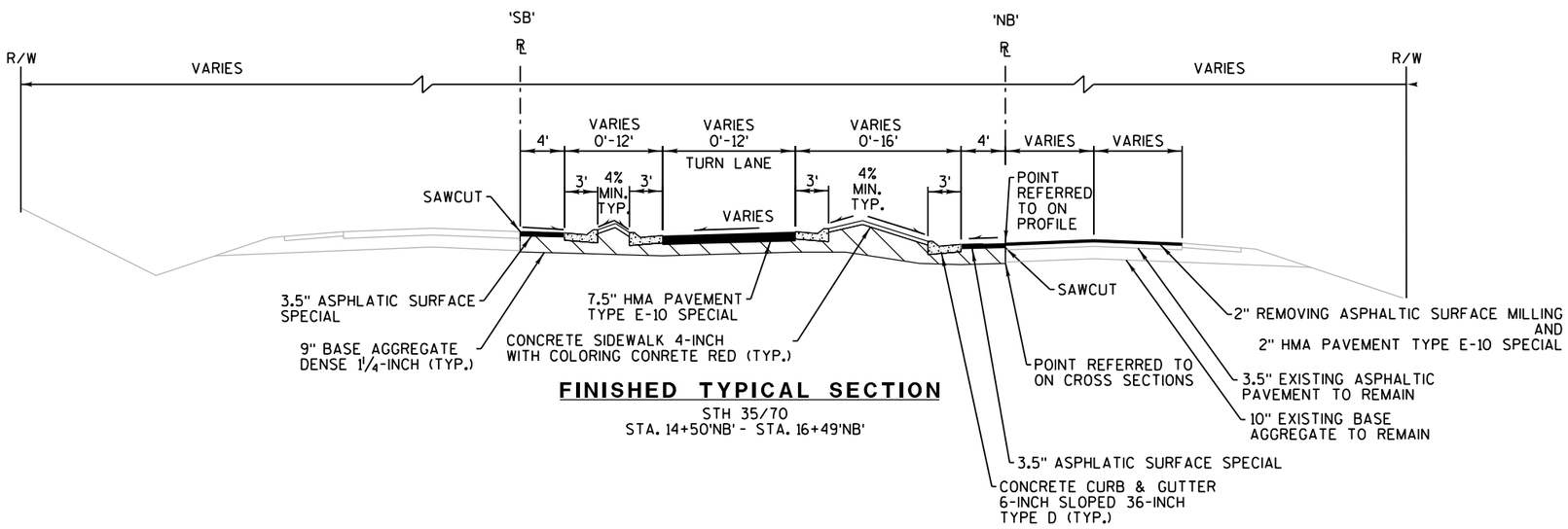
LEGEND

Ⓐ SEEDING, SEEDING TEMPORARY, AND FERTILIZER TYPE B

Ⓑ MULCHING

Ⓒ TOPSOIL

Ⓓ EROSION MAT



FINISHED TYPICAL SECTION

STH 35/70
STA. 14+50'NB' - STA. 16+49'NB'

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	FINISHED TYPICAL SECTIONS	SHEET 7	E

LEGEND

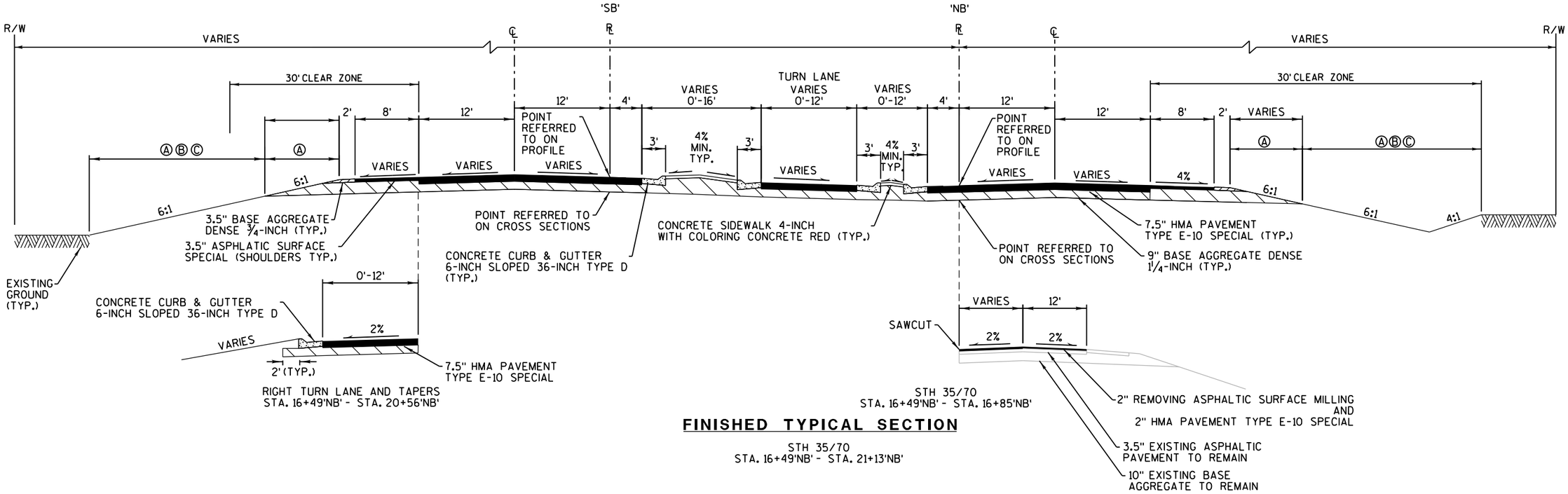
Ⓐ SEEDING, SEEDING TEMPORARY, AND FERTILIZER TYPE B

Ⓑ MULCHING

Ⓒ TOPSOIL

Ⓓ EROSION MAT

SEE ALIGNMENT DETAILS FOR SUPERELEVATION DATA



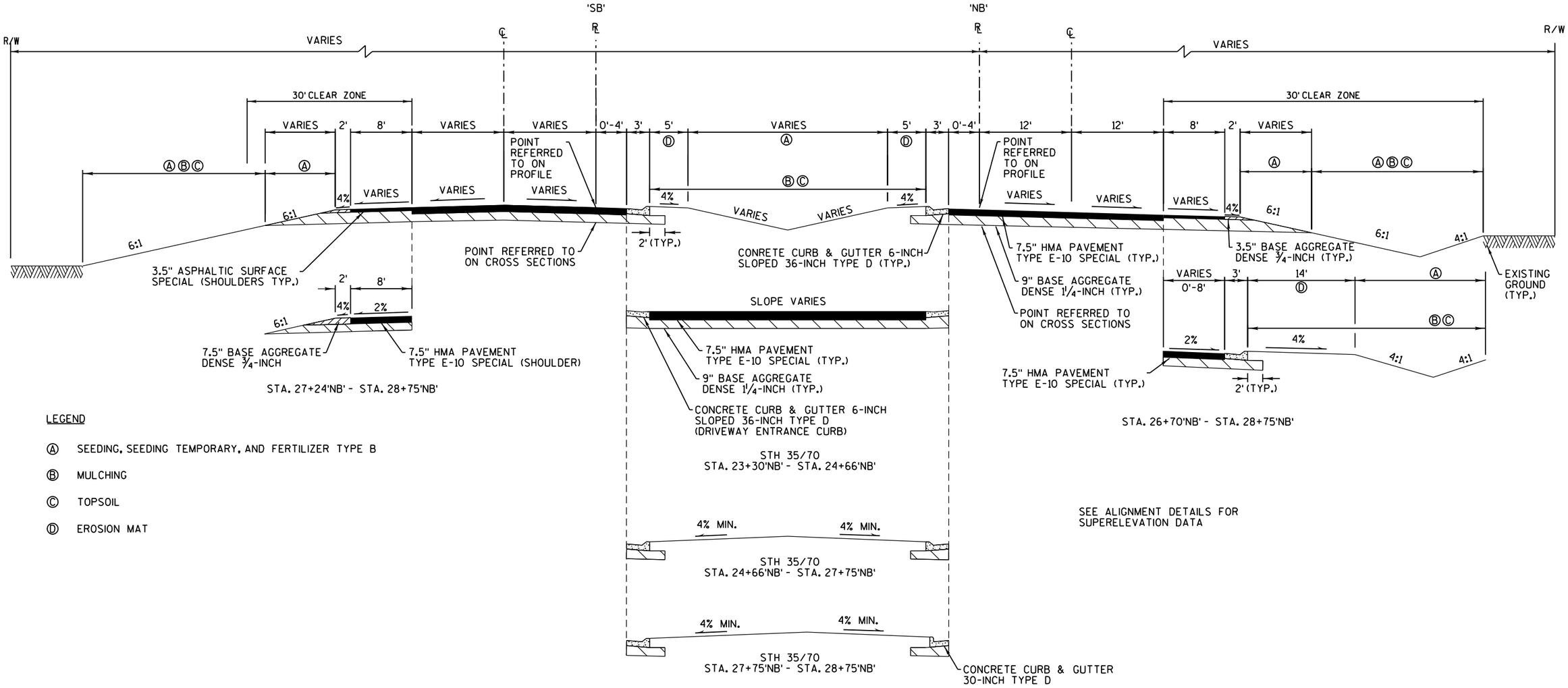
RIGHT TURN LANE AND TAPERS
STA. 16+49'NB' - STA. 20+56'NB'

STH 35/70
STA. 16+49'NB' - STA. 16+85'NB'

FINISHED TYPICAL SECTION

STH 35/70
STA. 16+49'NB' - STA. 21+13'NB'

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	FINISHED TYPICAL SECTIONS	SHEET 8	E



LEGEND

Ⓐ SEEDING, SEEDING TEMPORARY, AND FERTILIZER TYPE B

Ⓑ MULCHING

Ⓒ TOPSOIL

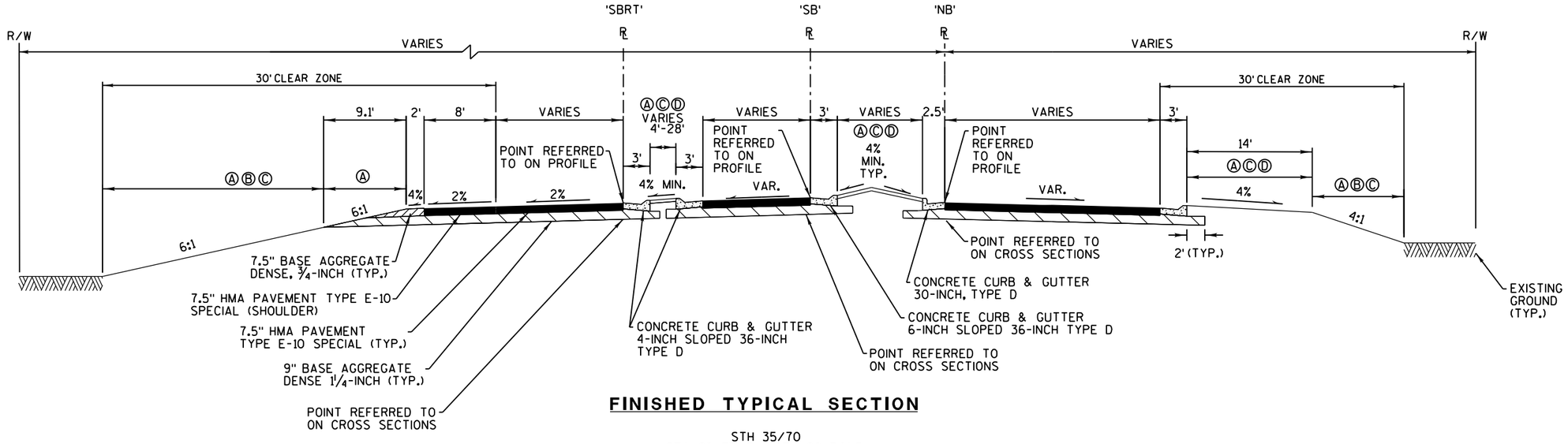
Ⓓ EROSION MAT

SEE ALIGNMENT DETAILS FOR SUPERELEVATION DATA

FINISHED TYPICAL SECTION

STH 35/70
STA. 21+13'NB' - STA. 28+75'NB'

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	FINISHED TYPICAL SECTIONS	SHEET 9	E



FINISHED TYPICAL SECTION

STH 35/70
STA. 28+75'NB' - STA. 29+54'NB'

LEGEND

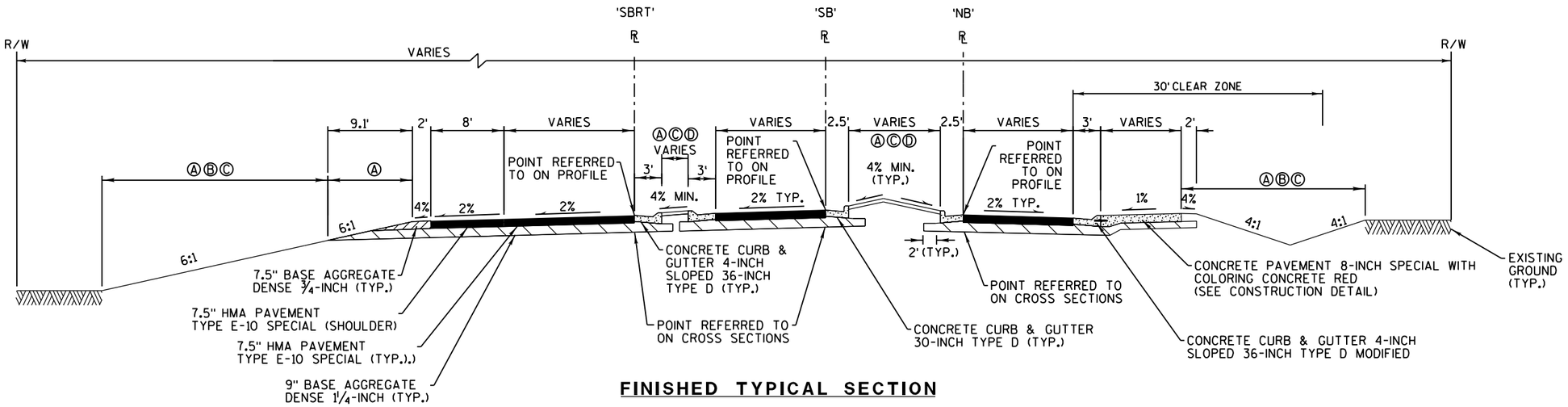
Ⓐ SEEDING, SEEDING TEMPORARY, AND FERTILIZER TYPE B

Ⓑ MULCHING

Ⓒ TOPSOIL

Ⓓ EROSION MAT

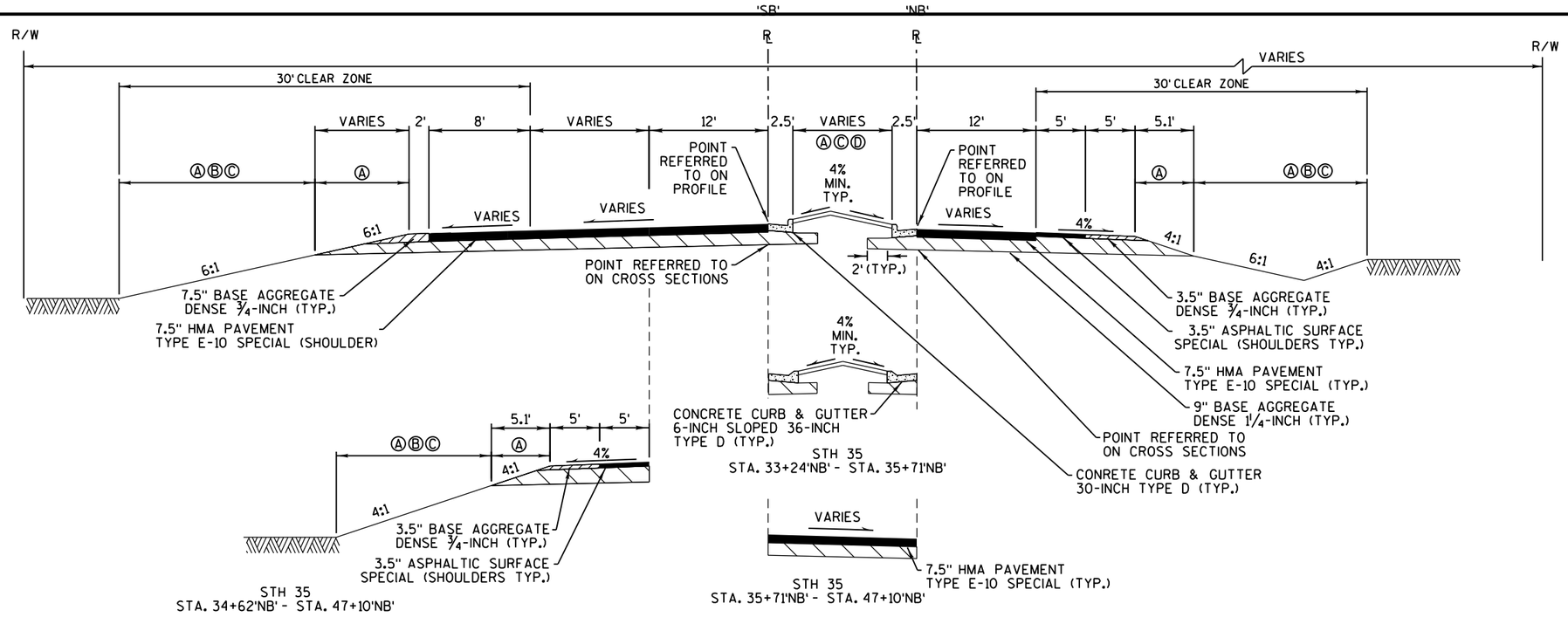
SEE ALIGNMENT DETAILS FOR SUPERELEVATION DATA



FINISHED TYPICAL SECTION

STH 35
STA. 31+23'NB' - STA. 32+77'NB'

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	FINISHED TYPICAL SECTIONS	SHEET 10	E



FINISHED TYPICAL SECTION

STH 35
STA. 32+77'NB' - STA. 47+10'NB'

SEE ALIGNMENT DETAILS FOR SUPERELEVATION DATA

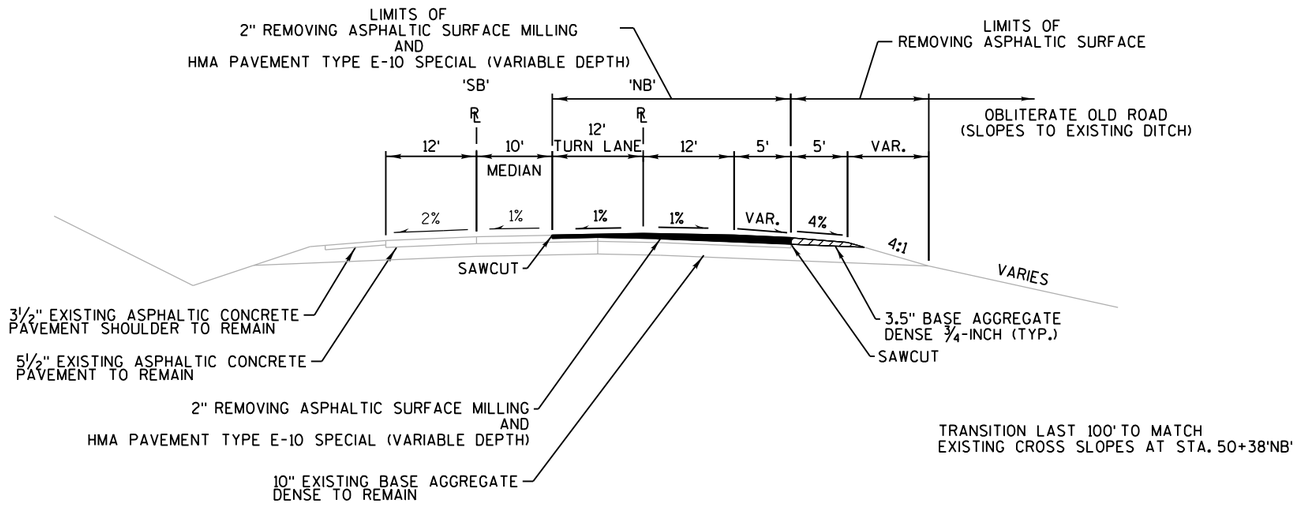
LEGEND

Ⓐ SEEDING, SEEDING TEMPORARY, AND FERTILIZER TYPE B

Ⓑ MULCHING

Ⓒ TOPSOIL

Ⓓ EROSION MAT

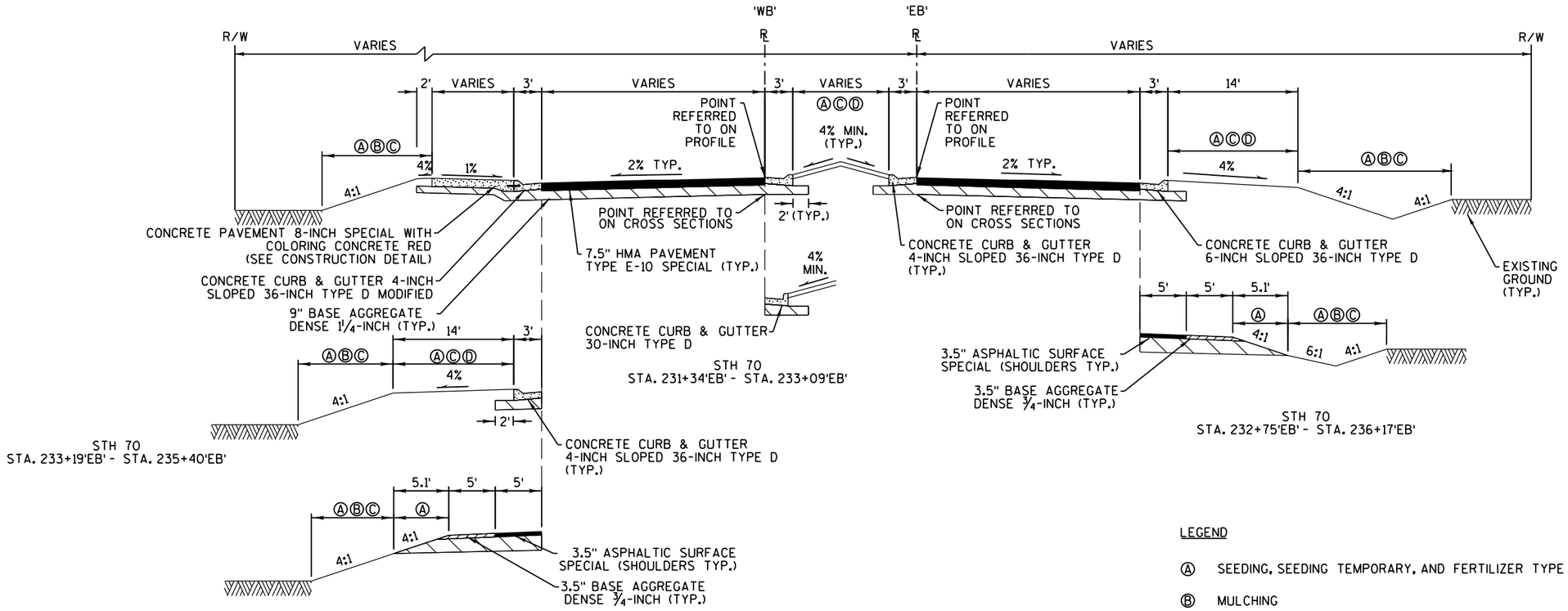


TRANSITION LAST 100' TO MATCH EXISTING CROSS SLOPES AT STA. 50+38'NB'

FINISHED TYPICAL SECTION

STH 35
STA. 47+10'NB' - STA. 50+38'NB'

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	FINISHED TYPICAL SECTIONS	SHEET 11	E



FINISHED TYPICAL SECTION

STH 70
STA. 231+34'EB' - STA. 236+17'EB'

LEGEND

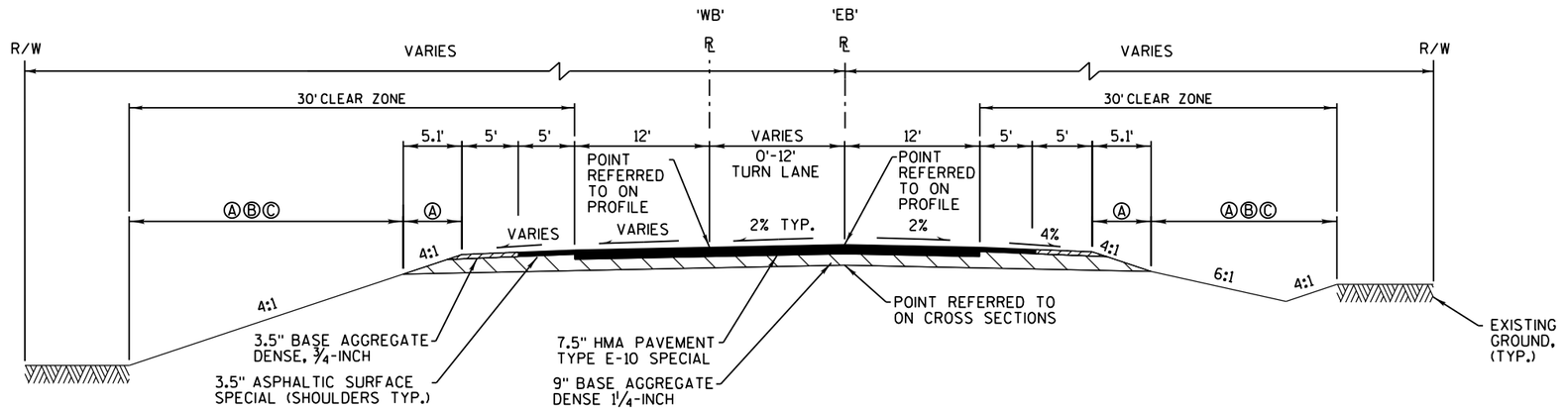
Ⓐ SEEDING, SEEDING TEMPORARY, AND FERTILIZER TYPE B

Ⓑ MULCHING

Ⓒ TOPSOIL

Ⓓ EROSION MAT

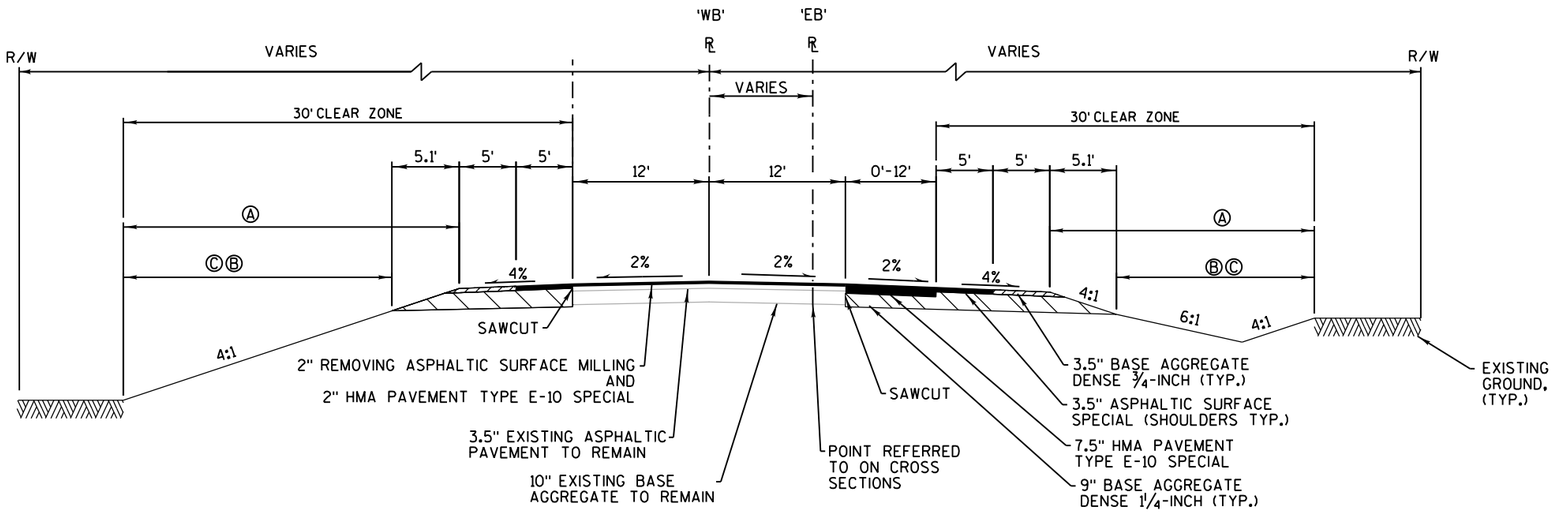
SEE ALIGNMENT DETAILS FOR SUPERELEVATION DATA



FINISHED TYPICAL SECTION

STH 70
STA. 236+17'EB' - STA. 237+00'EB'

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	FINISHED TYPICAL SECTIONS	SHEET 12	E



FINISHED TYPICAL SECTION

STH 70
STA. 237+00'EB' - STA. 245+30'EB'

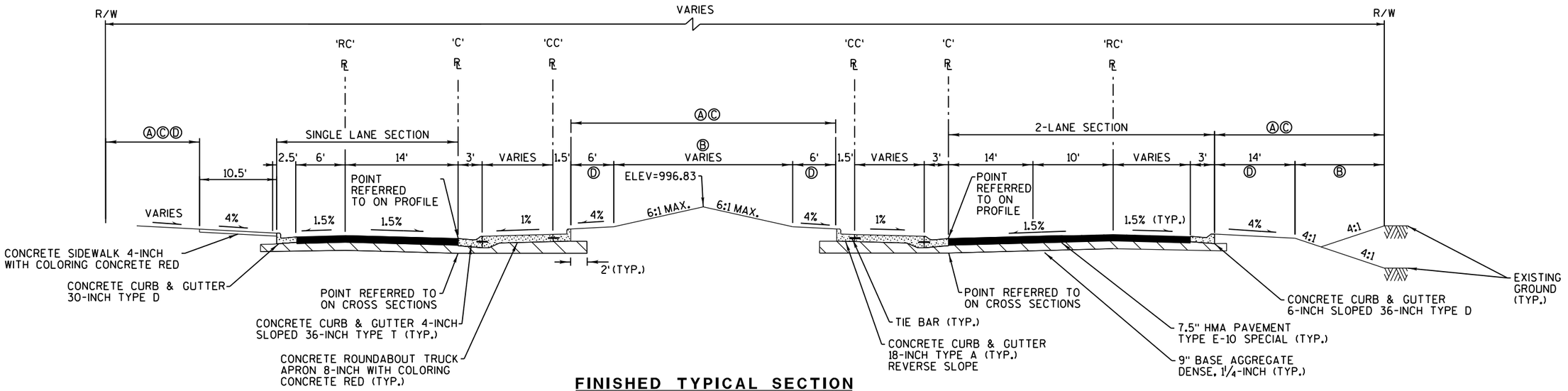
LEGEND

Ⓐ SEEDING, SEEDING TEMPORARY, AND FERTILIZER TYPE B

Ⓑ MULCHING

Ⓒ TOPSOIL

Ⓓ EROSION MAT

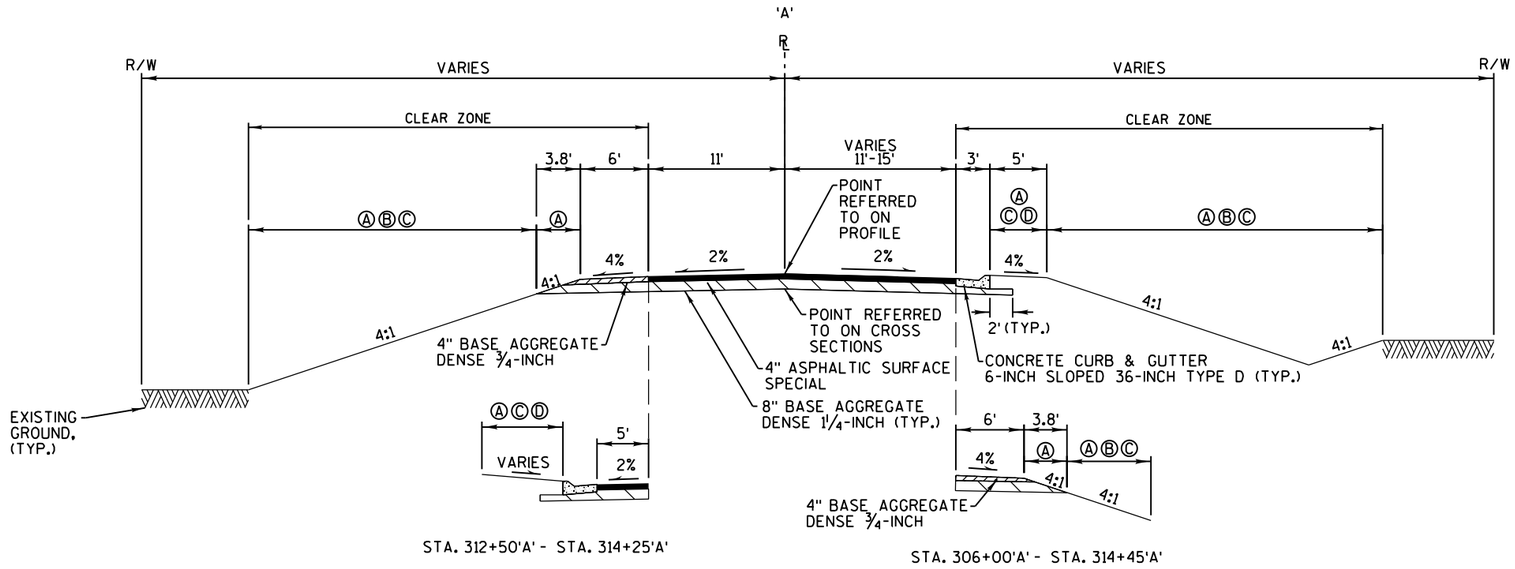


FINISHED TYPICAL SECTION

ROUNDABOUT
STA. 100+00'C' - STA. 104+44'C'

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	FINISHED TYPICAL SECTIONS	SHEET 13	E

2



FINISHED TYPICAL SECTION

AIRPORT ROAD
STA. 300+62'A' - STA. 314+45'A'

LEGEND

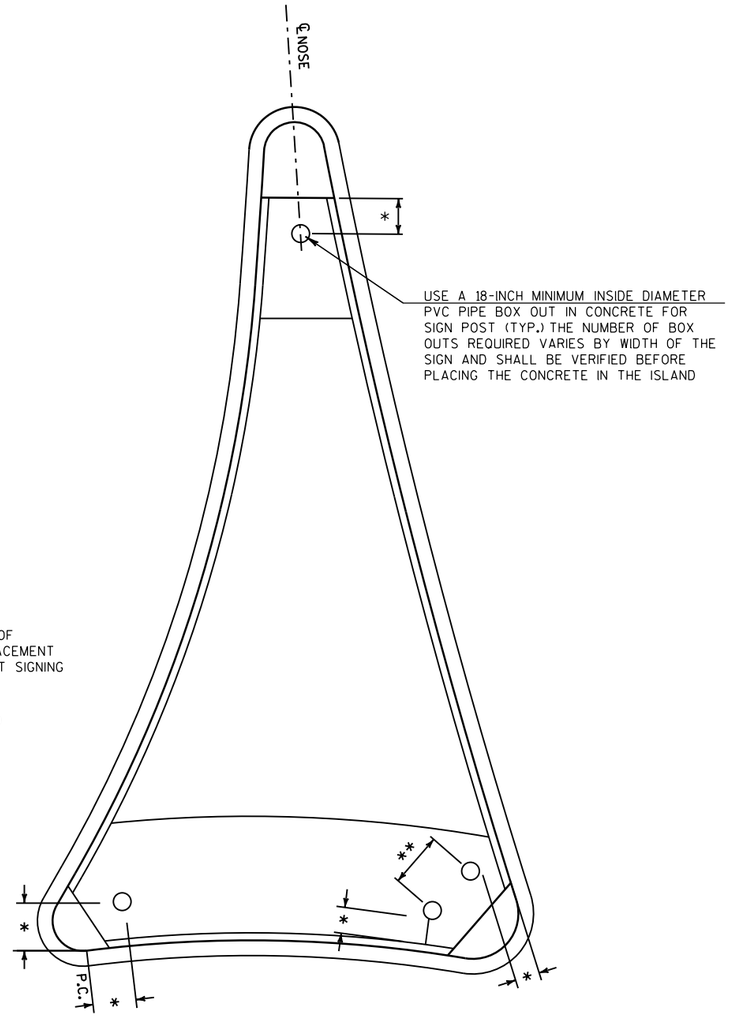
Ⓐ SEEDING, SEEDING TEMPORARY, AND FERTILIZER TYPE B

Ⓑ MULCHING

Ⓒ TOPSOIL

Ⓓ EROSION MAT

2



NOTIFY THE PROJECT ENGINEER A MINIMUM OF 2-WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.

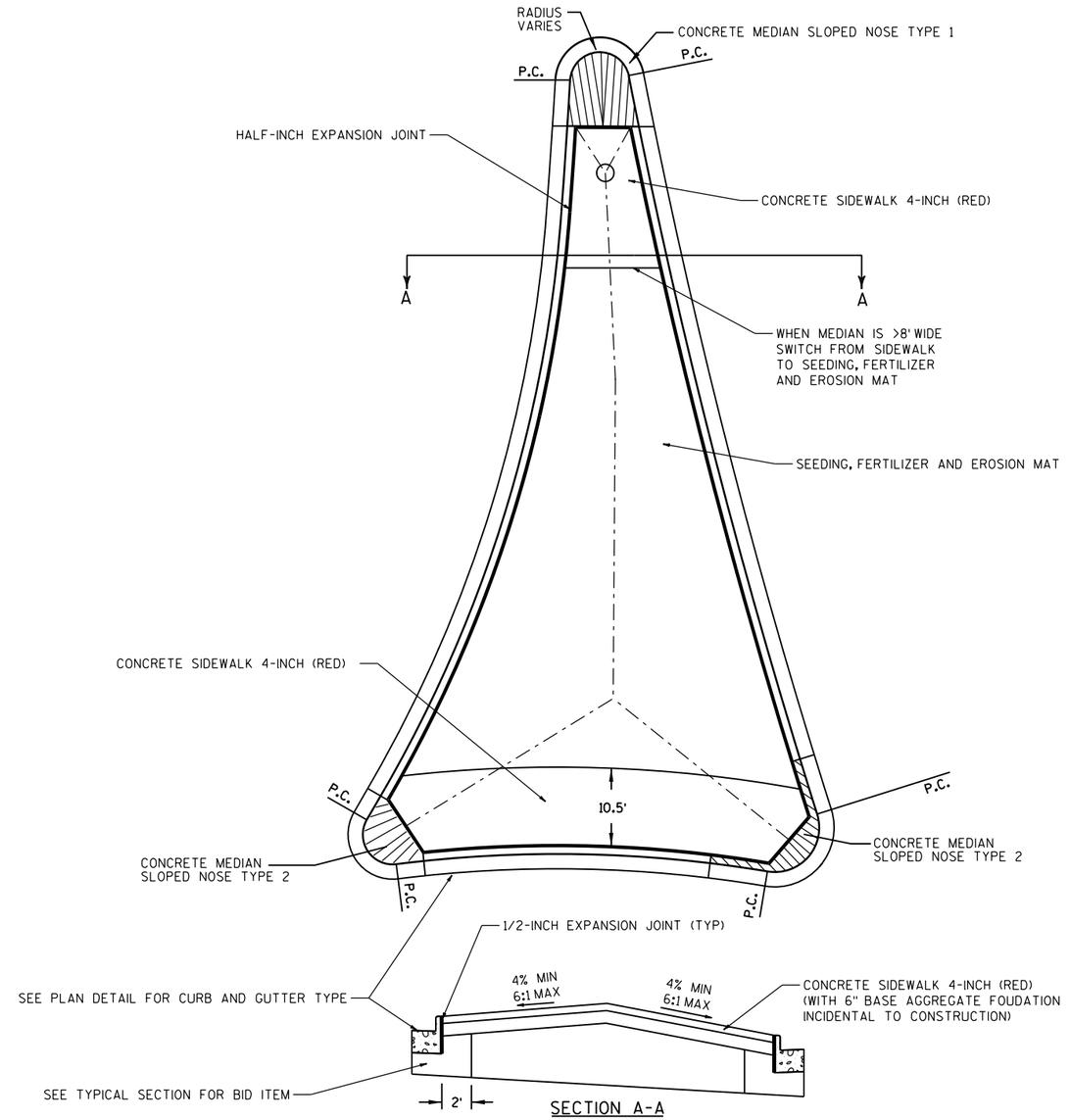
* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB OR EDGE OF TRUCK OVERTRACKING PAD.

**SEE SIGN DETAILS FOR POST SPACING.

ISLAND SIGN LOCATION DETAIL (TYP.)

NOTES:

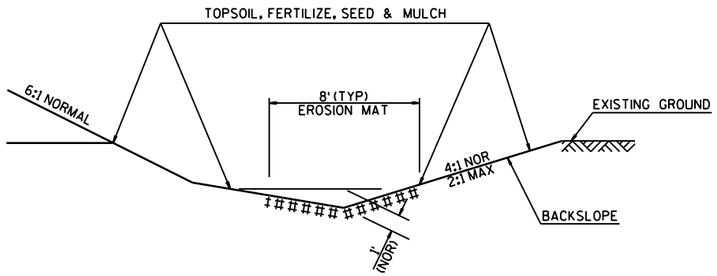
1. TROWEL ISLAND NOSE TO A SMOOTH FINISH.
2. JOINT SPACING TO BE DETERMINED IN FIELD.



SPLITTER ISLAND DETAIL (TYP.)

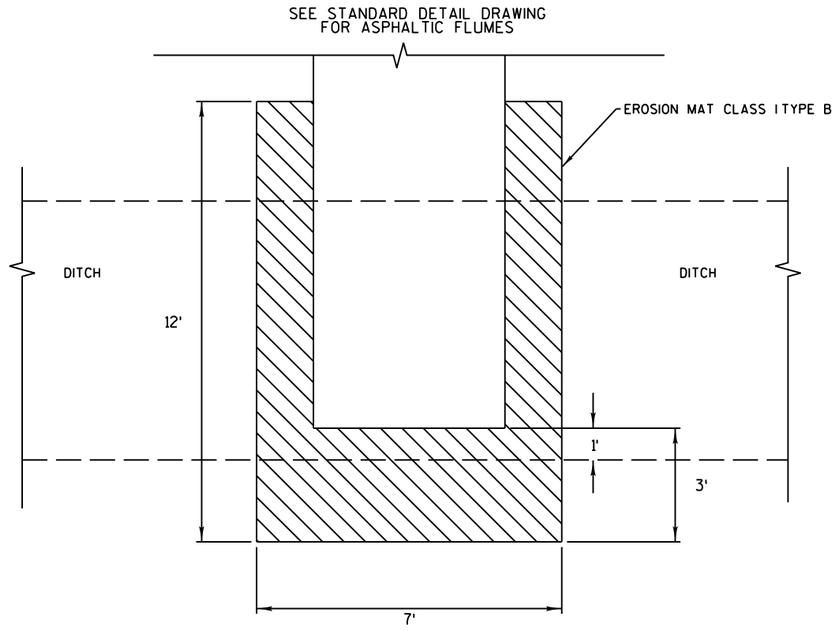
2

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CONSTRUCTION DETAILS	SHEET 15	E

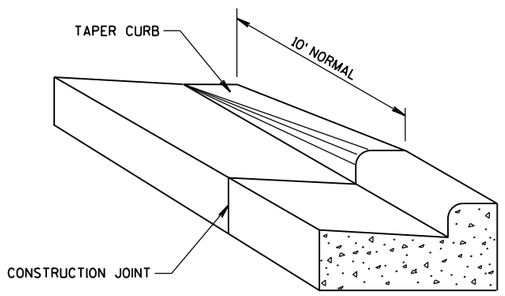


TYPICAL INSTALLATION FOR EROSION MAT

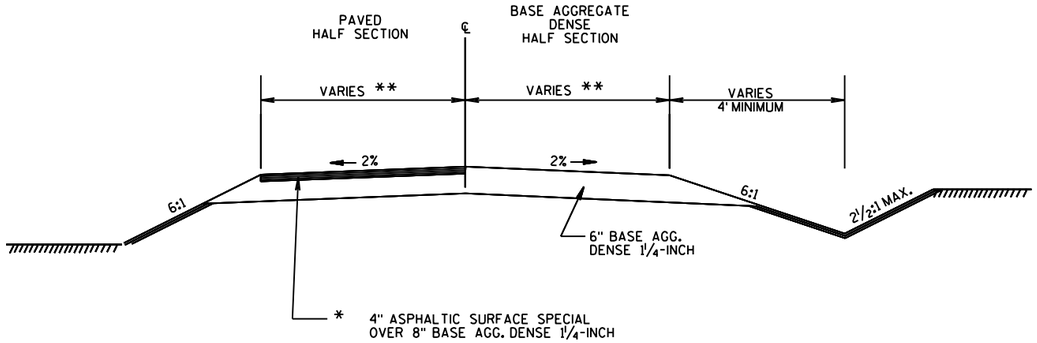
DITCH LINING
(SEE EROSION CONTROL PLANS FOR LOCATIONS)



DETAIL FOR ASPHALTIC FLUME ENDS



DETAIL OF CURB & GUTTER TERMINI



* OR MATCH EXISTING ASPHALT DEPTH

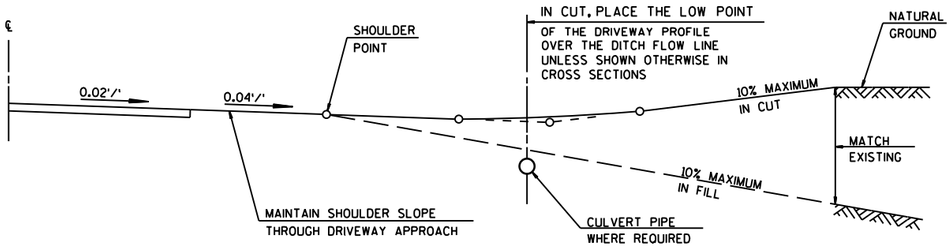
** SEE PAVING DETAILS FOR EXACT LAYOUTS AND WIDTHS OF DRIVEWAYS.

TYPICAL SECTION FOR DRIVEWAYS

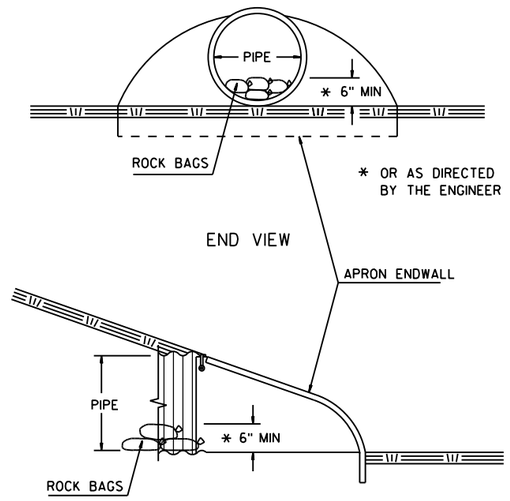
RUNOFF COEFFICIENT TABLE

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

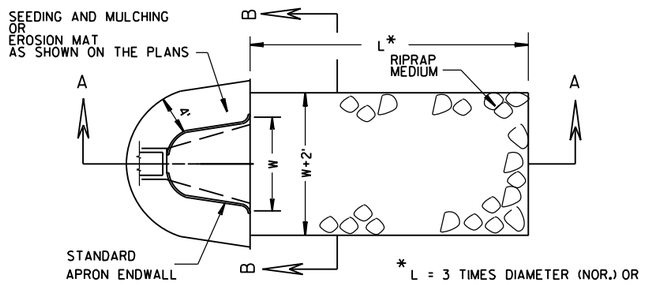
TOTAL PROJECT AREA = 37.88 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 24.76 ACRES

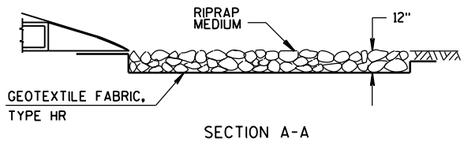


TYPICAL RURAL DRIVEWAY PROFILE

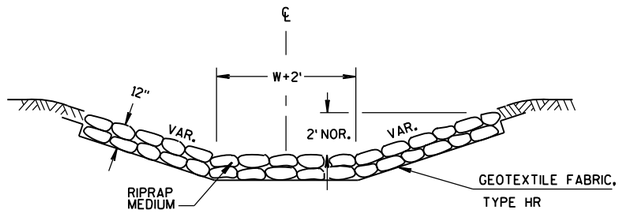


CULVERT PIPE CHECKS



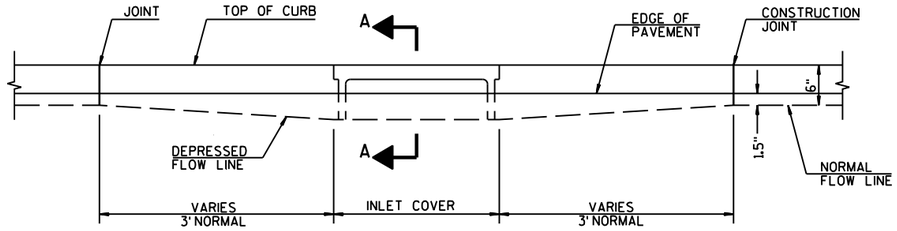


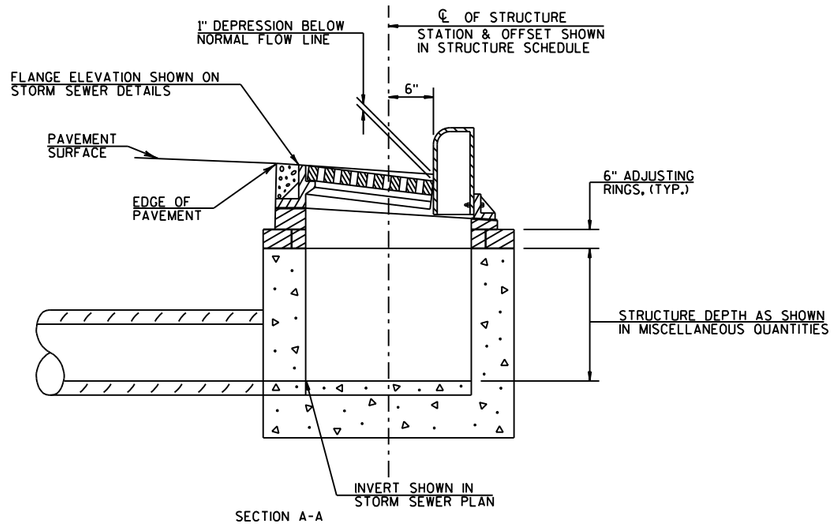
SECTION A-A



SECTION B-B

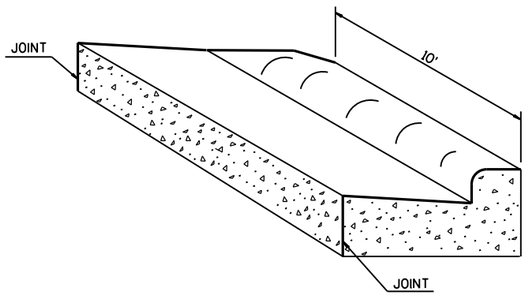
RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

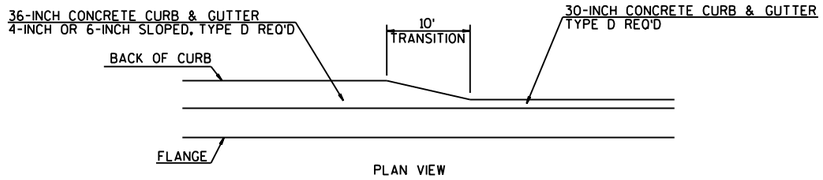




SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS

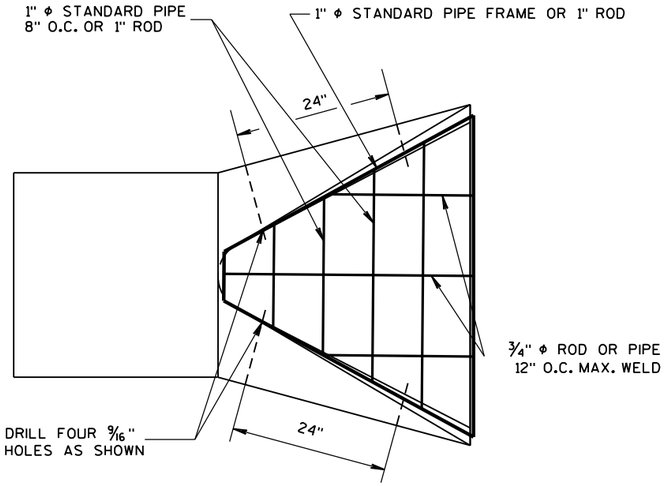




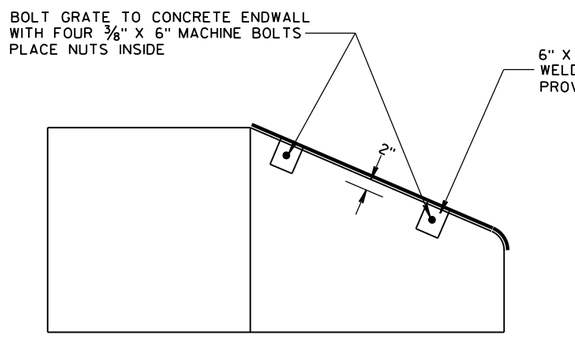
PLAN VIEW

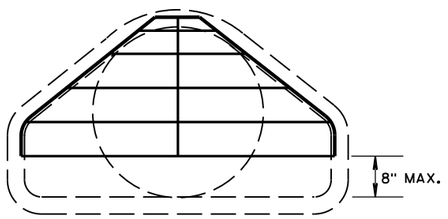
CONCRETE CURB & GUTTER TRANSITION DETAILS

10' TRANSITION LENGTH TO BE MEASURED AND PAID FOR AS 36-INCH CONCRETE CURB & GUTTER, 4-INCH OR 6-INCH SLOPED, TYPE D.

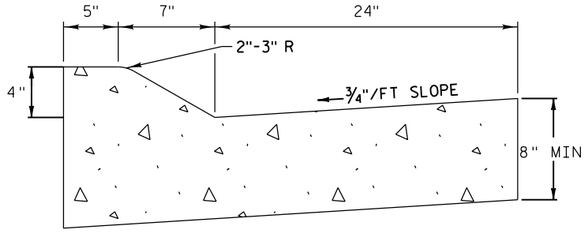


AT EACH PIPE ENDWALL WITH DIAMETER OF 24" OR GREATER



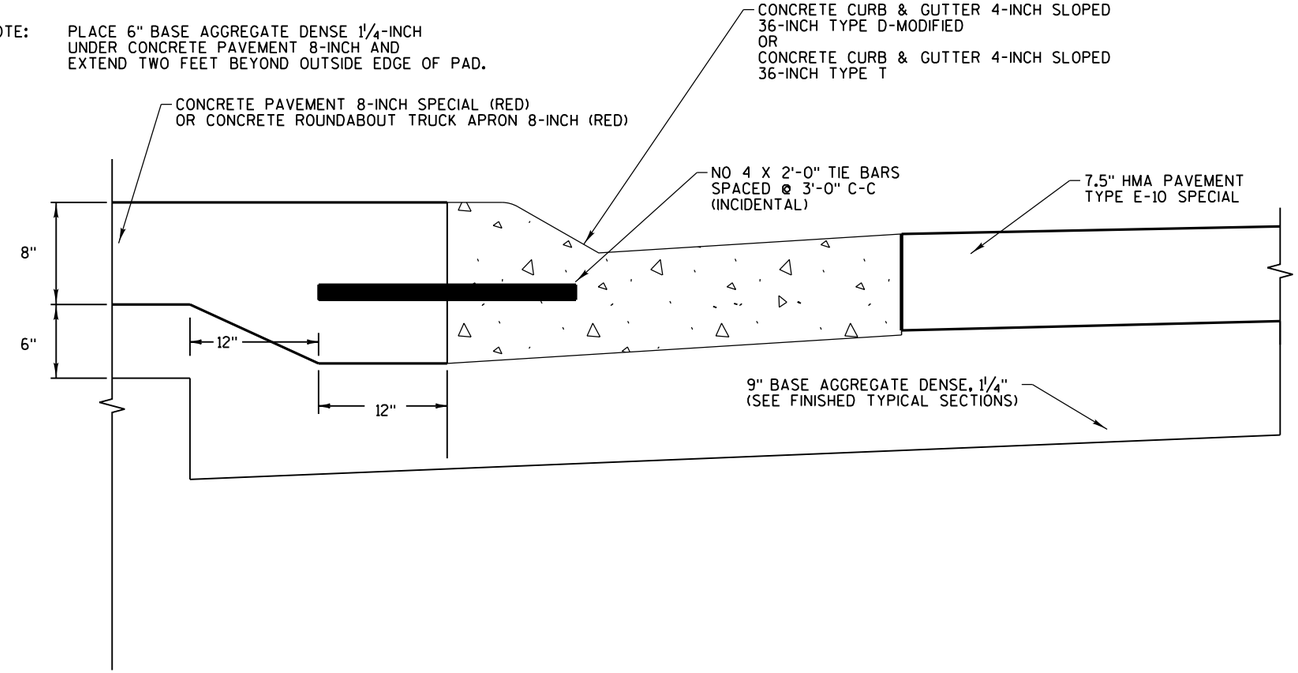


PIPE GRATE DETAIL

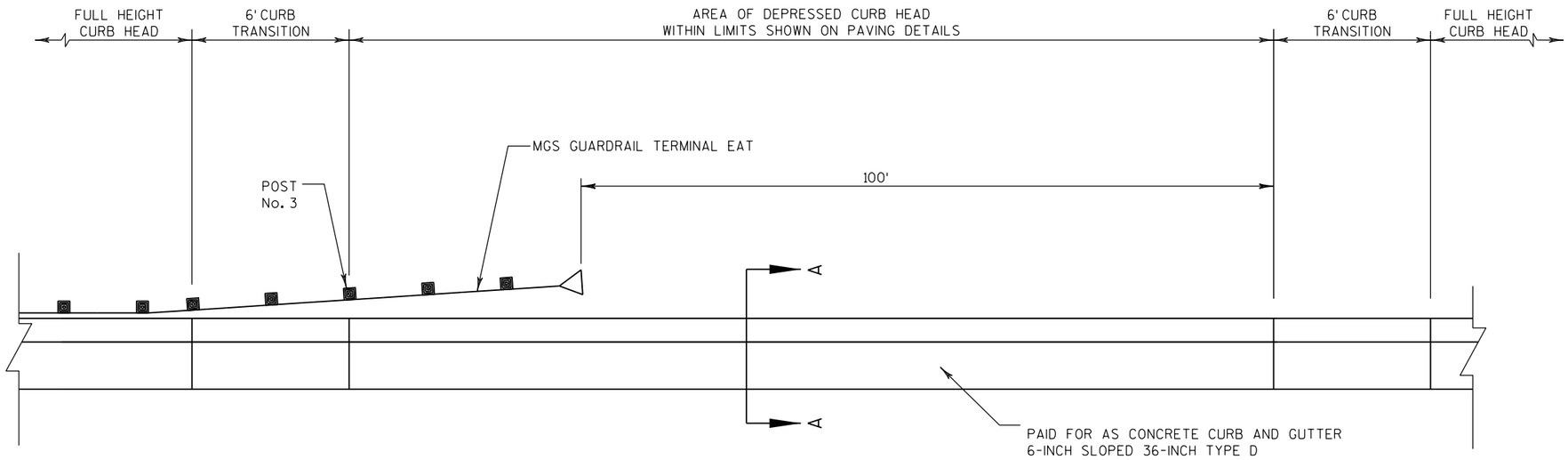


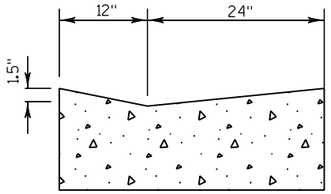
DETAIL FOR CONCRETE CURB & GUTTER,
4-INCH SLOPED 36-INCH TYPE D MODIFIED

NOTE: PLACE 6" BASE AGGREGATE DENSE 1¼-INCH UNDER CONCRETE PAVEMENT 8-INCH AND EXTEND TWO FEET BEYOND OUTSIDE EDGE OF PAD.



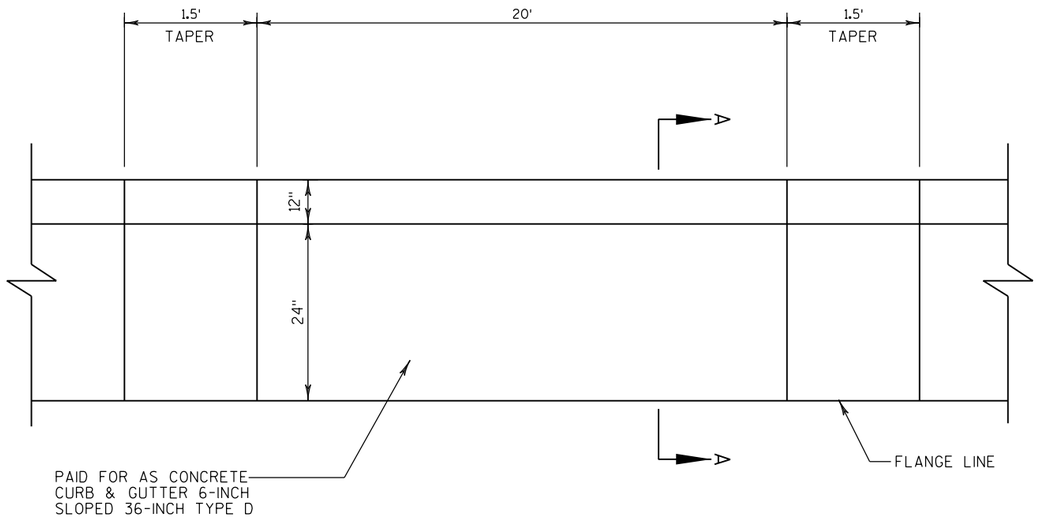
TRUCK OVERTRACKING PAD DETAIL



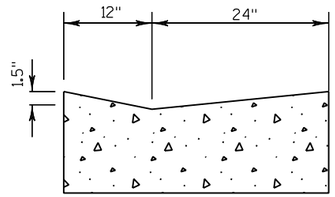


SECTION A-A
DEPRESSED CURB

DEPRESSED CURB HEAD AT MGS GUARDRAIL TERMINAL EAT

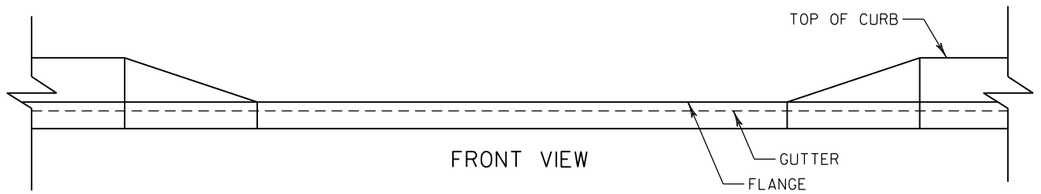


PLAN VIEW



END VIEW

SECTION A-A



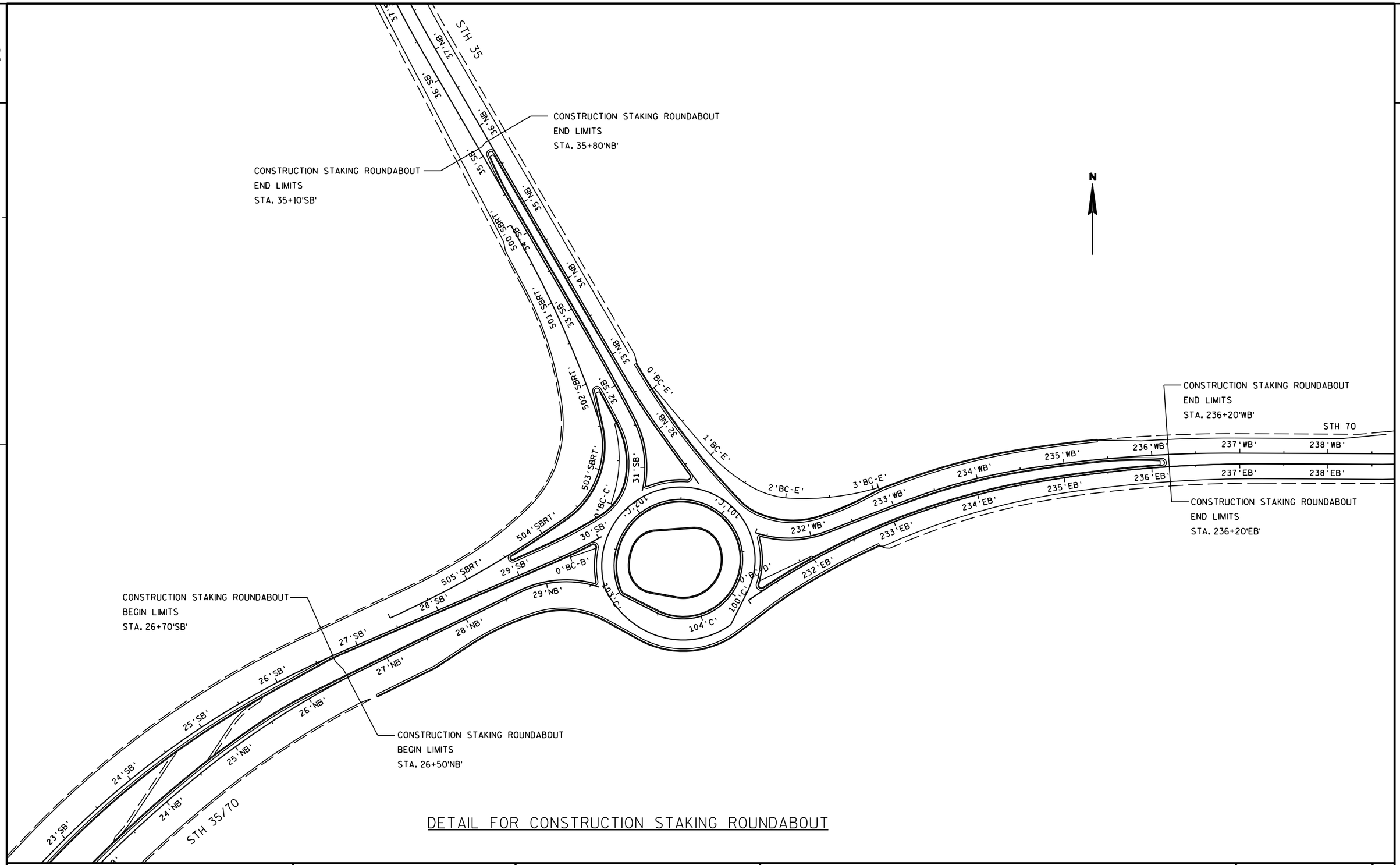
FRONT VIEW

CURB OPENING FOR SNOWMOBILE CROSSING

LOCATIONS SHOWN ON PAVING DETAILS
STA. 26+41.40'NB' - 26+61.40'NB', LT
STA. 26+65.90'SB' - 26+84.80'SB', RT

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CONSTRUCTION DETAILS	SHEET 20	E

2



DETAIL FOR CONSTRUCTION STAKING ROUNDABOUT

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CONSTRUCTION DETAILS	SHEET 21	E

2

LEGEND

6S-36D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
(3)	DATA POINT
■	PROPOSED INLET
●	PROPOSED MANHOLE
XXXXX	SAWCUT
HMA-7.5	HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH
HMA-2	HMA PAVEMENT TYPE E-10 SPECIAL, 2-INCH MILL
ASPH-3.5	ASPHALTIC SURFACE SPECIAL, 3.5-INCH
CCSW-4	CONCRETE SIDEWALK 4-INCH WITH COLORING CONCRETE RED
ASPH	ASPHALTIC FLUME

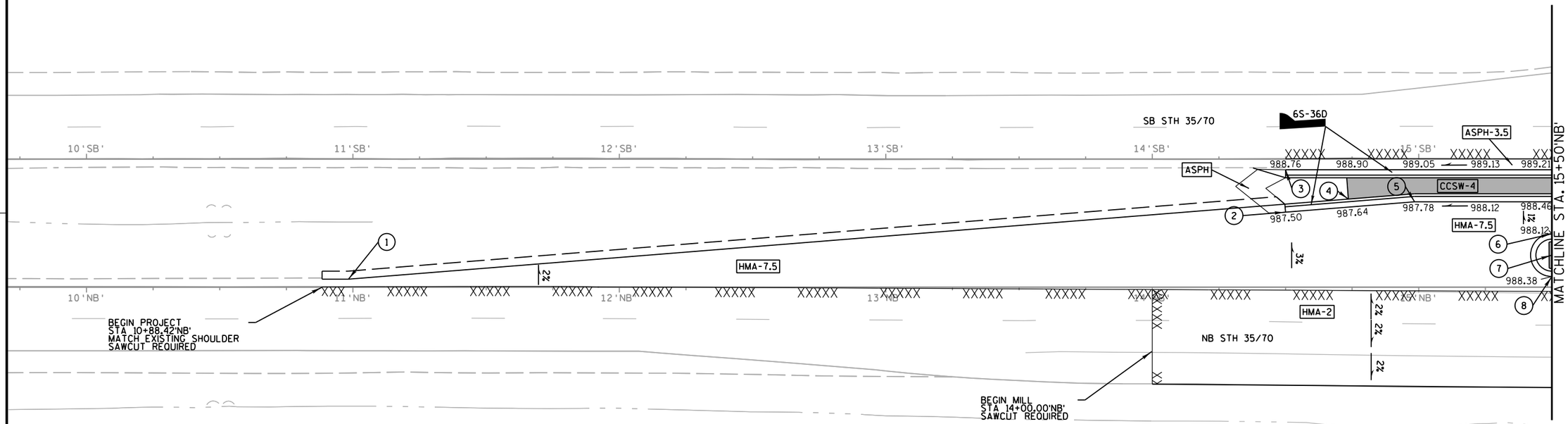
NOTES:

RADIUS DIMENSIONS ARE SHOWN TO FACE OF CURB.

DATA POINT OFFSETS AND PAVEMENT GRADES ARE GIVEN TO THE FLANGE LINE.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25'INTERVALS.

SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION AND SUPERELEVATION TRANSITIONS.



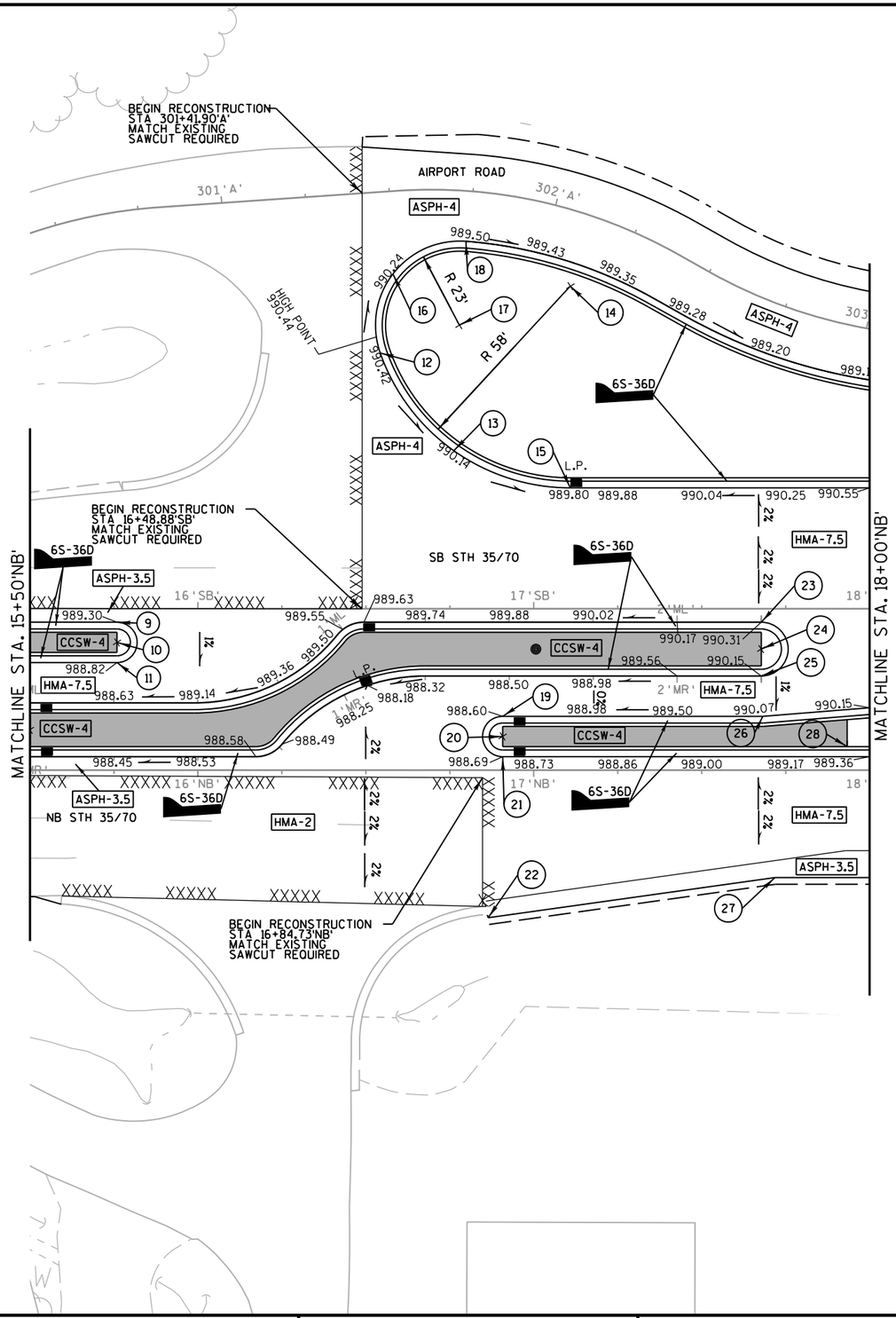
DATA POINT TABLE

POINT	STATION	OFFSET (FT)	RADIUS	COMMENT
1	10+98.30 NB	-3.00 LT	--	
2	14+50.00 NB	-28.13 LT	--	
3	14+50.00 SB	4.00 RT	--	
4	14+74.03 NB	-33.06 LT	--	START CCSW-4
5	14+98.43 NB	-32.00 LT	--	
6	15+49.96 NB	-20.00 LT	--	
7	15+49.96 NB	-12.00 LT	6'	TYPE 1 NOSE
8	15+50.00 NB	-4.00 LT	--	

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVING DETAILS - STH 35/70	SHEET 22	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\021101_id.dgn PLOT DATE : 4/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42



DATA POINT TABLE

POINT	STATION		OFFSET (FT)		RADIUS	COMMENT
9	15+75.90	SB	4.00	RT	--	
10	15+75.90	SB	10.00	RT	4'	TYPE 2 NOSE
11	15+75.90	SB	16.00	RT	--	
12	16+54.29	SB	-76.13	LT	--	
13	16+76.21	SB	-47.05	LT	--	
14	17+10.90	SB	-96.00	LT	58'	
15	17+10.90	SB	-36.00	LT	--	
16	301+49.39	A	24.61	RT	--	
17	301+74.00	A	40.00	RT	23'	
18	301+74.00	A	15.00	RT	--	
19	16+90.73	NB	-16.00	LT	--	
20	16+90.73	NB	-10.00	LT	4'	TYPE 2 NOSE
21	16+90.73	NB	-4.00	LT	--	
22	16+86.42	NB	43.95	RT	--	
23	17+67.73	SB	4.00	RT	--	
24	17+67.73	SB	12.00	RT	6'	TYPE 1 NOSE
25	17+67.73	NB	-28.00	LT	--	
26	17+68.21	NB	-16.00	LT	--	
27	17+71.80	NB	32.00	RT	--	
28	17+93.33	NB	-7.00	LT	--	END CCSW-4

LEGEND

6S-36D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D	ASPH-3.5	ASPHALTIC SURFACE SPECIAL, 3.5-INCH SHOULDER
(3)	DATA POINT	ASPH-4	ASPHALTIC SURFACE SPECIAL, 4-INCH
■	PROPOSED INLET	HMA-7.5	HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH
●	PROPOSED MANHOLE	HMA-2	HMA PAVEMENT TYPE E-10 SPECIAL, 2-INCH MILL
XXXXX	SAWCUT	CCSW-4	CONCRETE SIDEWALK 4-INCH WITH COLORING CONCRETE RED
		ASPH	ASPHALTIC FLUME

NOTES:

RADIUS DIMENSIONS ARE SHOWN TO FACE OF CURB.

DATA POINT OFFSETS AND PAVEMENT GRADES ARE GIVEN TO THE FLANGE LINE.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25'INTERVALS.

SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION AND SUPERELEVATION TRANSITIONS.

DATA POINT TABLE

POINT	STATION		OFFSET (FT)		RADIUS	COMMENT
29	18+78.81	NB	32.00	RT	--	
30	19+10.90	SB	-36.00	LT	--	
31	19+18.36	NB	35.97	LT	--	EAT POST #1, SEE S.D.D
32	19+35.02	NB	-4.00	LT	--	BEGIN DRIVEWAY CURB
33	19+54.58	SB	17.09	RT	--	
34	19+64.00	SB	-31.59	LT	--	
35	20+34.81	NB	-8.21	LT	--	EAT POST #1, SEE S.D.D
36	20+47.22	NB	-4.00	LT	--	END DRIVEWAY CURB
37	20+36.64	SB	10.54	RT	--	
38	20+52.71	SB	-32.00	LT	--	
39	306+00.00	A	15.00	RT	--	

LEGEND

6S-36D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
6S-36D(D)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D (DRIVEWAY ENTRANCE)
(3)	DATA POINT
■	PROPOSED INLET
●	PROPOSED MANHOLE
ASPH-3.5	ASPHALTIC SURFACE SPECIAL, 3.5-INCH SHOULDER
ASPH-4	ASPHALTIC SURFACE SPECIAL, 4-INCH
HMA-7.5	HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH
	MGS GUARDRAIL 3

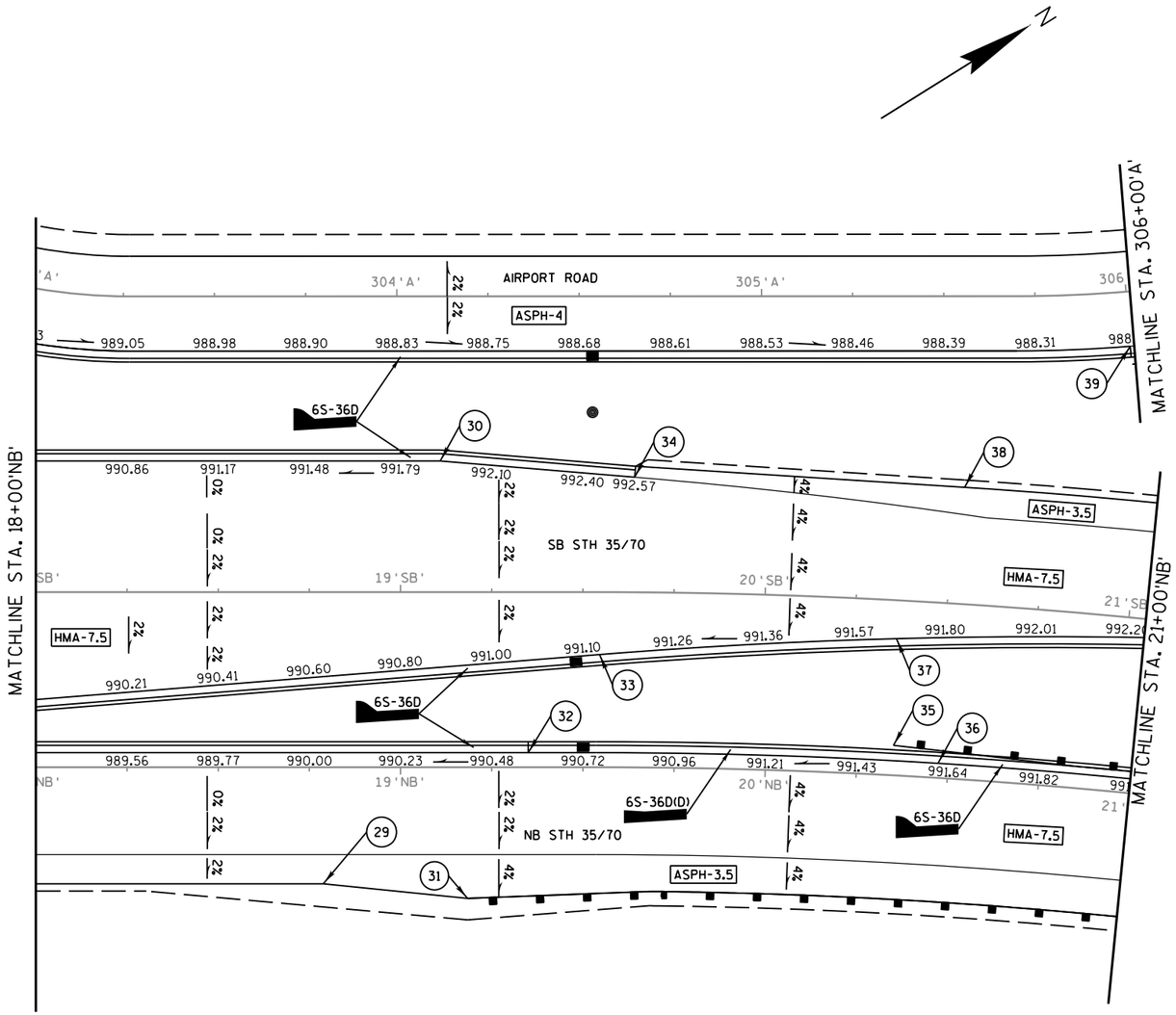
NOTES:

RADIUS DIMENSIONS ARE SHOWN TO FACE OF CURB.

DATA POINT OFFSETS AND PAVEMENT GRADES ARE GIVEN TO THE FLANGE LINE.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25'INTERVALS.

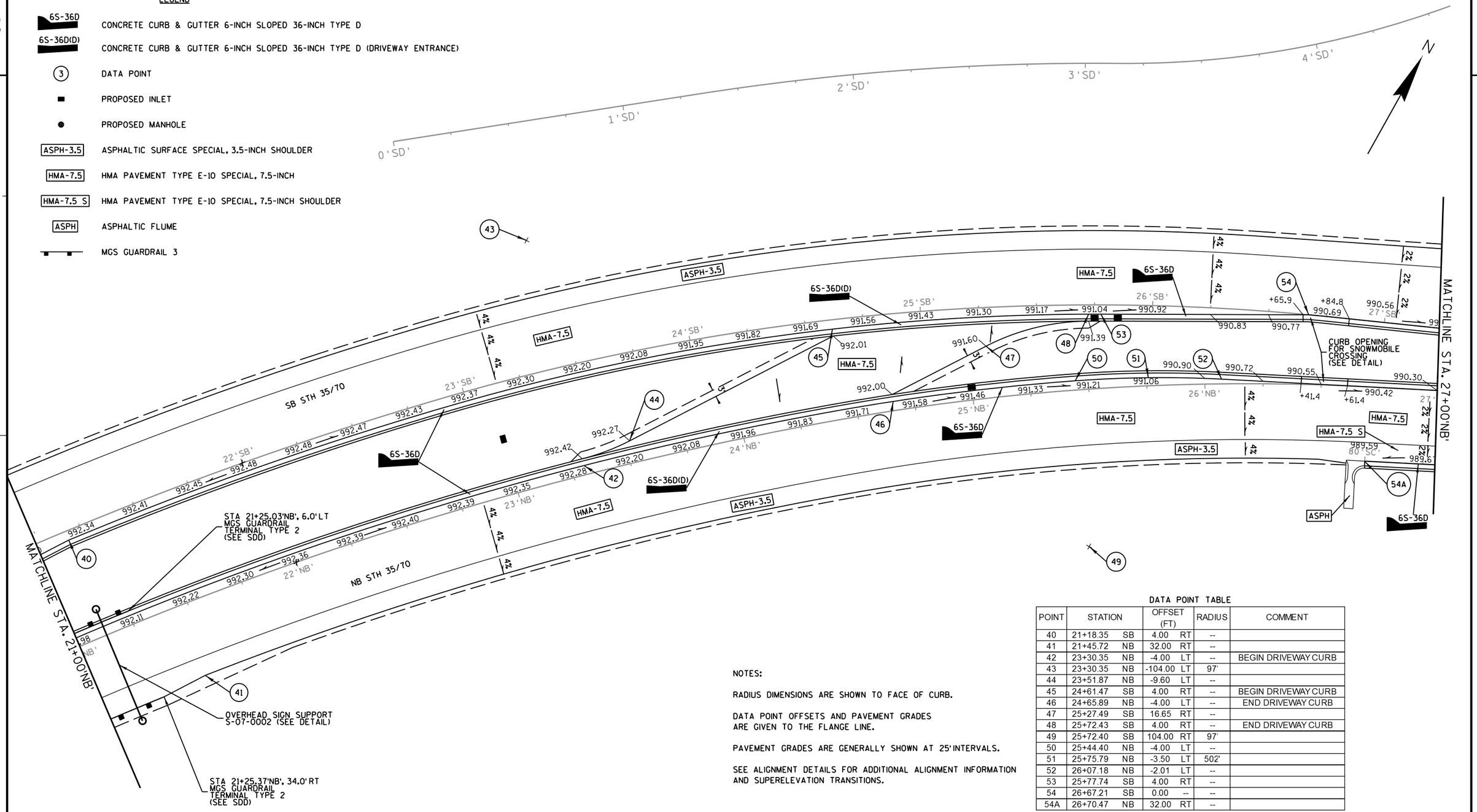
SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION AND SUPERELEVATION TRANSITIONS.



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVING DETAILS - STH 35/70	SHEET 24	E

LEGEND

- 6S-36D — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- 6S-36D(D) — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D (DRIVEWAY ENTRANCE)
- (3) — DATA POINT
- ■ — PROPOSED INLET
- ● — PROPOSED MANHOLE
- ASPH-3.5 — ASPHALTIC SURFACE SPECIAL, 3.5-INCH SHOULDER
- HMA-7.5 — HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH
- HMA-7.5 S — HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH SHOULDER
- ASPH — ASPHALTIC FLUME
- MGS GUARDRAIL 3



DATA POINT TABLE

POINT	STATION		OFFSET (FT)		RADIUS	COMMENT
40	21+18.35	SB	4.00	RT	--	
41	21+45.72	NB	32.00	RT	--	
42	23+30.35	NB	-4.00	LT	--	BEGIN DRIVEWAY CURB
43	23+30.35	NB	-104.00	LT	97'	
44	23+51.87	NB	-9.60	LT	--	
45	24+61.47	SB	4.00	RT	--	BEGIN DRIVEWAY CURB
46	24+65.89	NB	-4.00	LT	--	END DRIVEWAY CURB
47	25+27.49	SB	16.65	RT	--	
48	25+72.43	SB	4.00	RT	--	END DRIVEWAY CURB
49	25+72.40	SB	104.00	RT	97'	
50	25+44.40	NB	-4.00	LT	--	
51	25+75.79	NB	-3.50	LT	502'	
52	26+07.18	NB	-2.01	LT	--	
53	25+77.74	SB	4.00	RT	--	
54	26+67.21	SB	0.00	--	--	
54A	26+70.47	NB	32.00	RT	--	

NOTES:

RADIUS DIMENSIONS ARE SHOWN TO FACE OF CURB.

DATA POINT OFFSETS AND PAVEMENT GRADES ARE GIVEN TO THE FLANGE LINE.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25'INTERVALS.

SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION AND SUPERELEVATION TRANSITIONS.

DATA POINT TABLE

POINT	STATION		OFFSET (FT)		RADIUS	COMMENT
55	27+45.97	SB	-26.91	LT	--	BEGIN HMA-7.5 S
56	27+65.00	NB	-3.00	LT	--	10' CURB TRANSITION
57	29+01.24	SB	-21.18	LT	3'	TYPE 1 NOSE
58	29+61.55	SB	0.00	--	--	BEGIN 4S-36D(M)
59	29+53.65	NB	-4.00	LT	2'	TYPE 2 NOSE
60	29+89.43	SB	6.00	RT	4'	TYPE 2 NOSE
61	102+53.51	C	20.00	RT	--	END 4S-36D(M)
62	71+30.11	NWC	0.00	--	--	BEGIN 4S-36D(M)
63	502+50.40	SBRT	0.00	--	--	
64	502+10.47	SBRT	-4.04	LT	--	
65	72+32.13	NWC	0.00	--	--	END 4S-36D(M)
66	32+04.70	SB	-21.00	LT	3'	TYPE 1 NOSE
66A	32+77.10	NB	16.00	RT	--	
67	90+33.83	NEC	0.00	--	--	BEGIN 4S-36D(M)
68	30+80.61	SB	4.00	RT	2'	TYPE 2 NOSE
69	31+37.33	NB	-6.00	LT	4'	TYPE 2 NOSE
70	231+44.03	WB	4.00	RT	2'	TYPE 2 NOSE
71	100+23.17	C	20.00	RT	--	BEGIN 4S-36D(M)
72	231+33.80	EB	-6.00	LT	4'	TYPE 2 NOSE
73	231+99.60	EB	0.00	--	--	END 4S-36D(M)
73A	232+74.22	EB	16.00	RT	--	

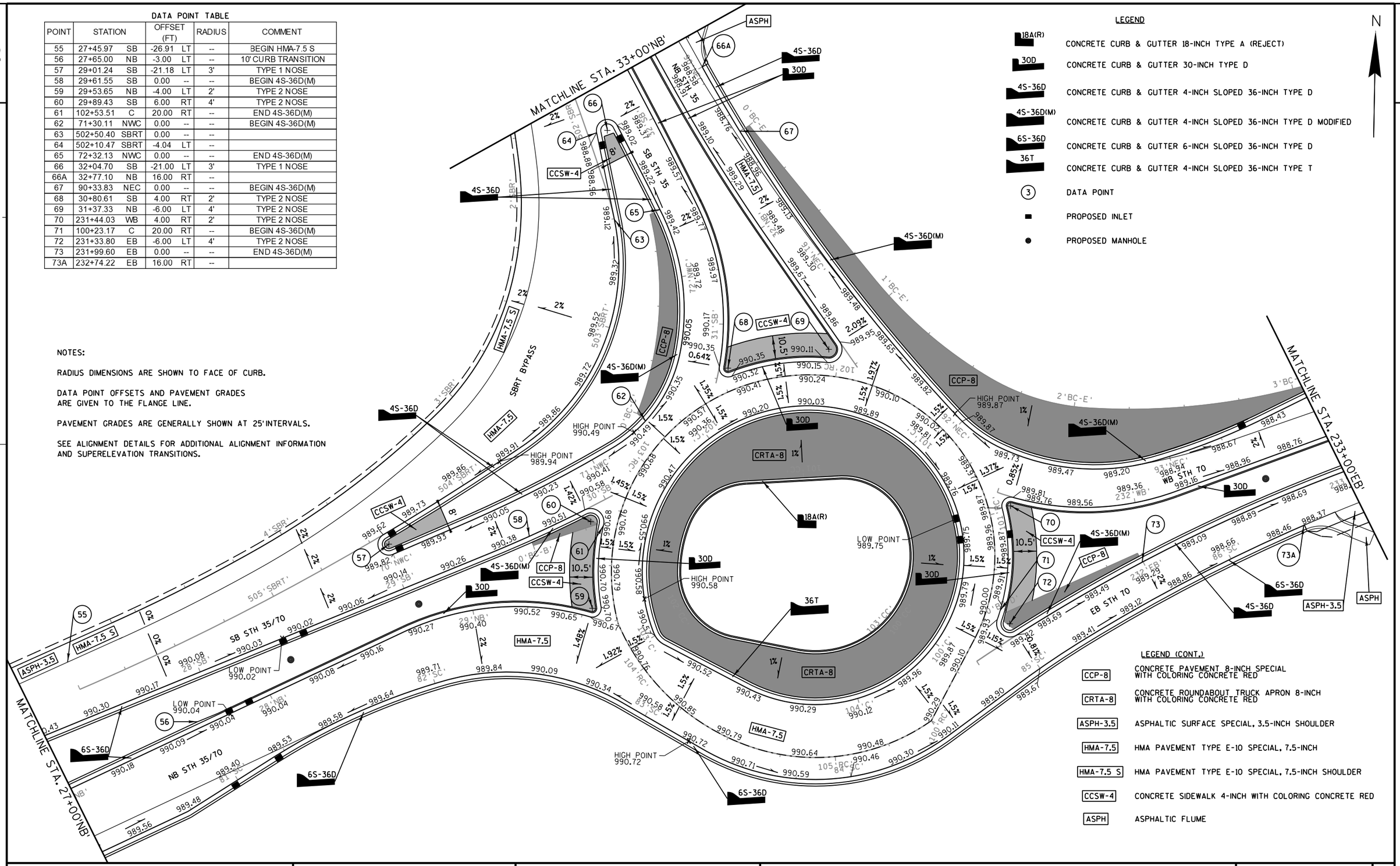
NOTES:

RADIUS DIMENSIONS ARE SHOWN TO FACE OF CURB.

DATA POINT OFFSETS AND PAVEMENT GRADES ARE GIVEN TO THE FLANGE LINE.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25'INTERVALS.

SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION AND SUPERELEVATION TRANSITIONS.



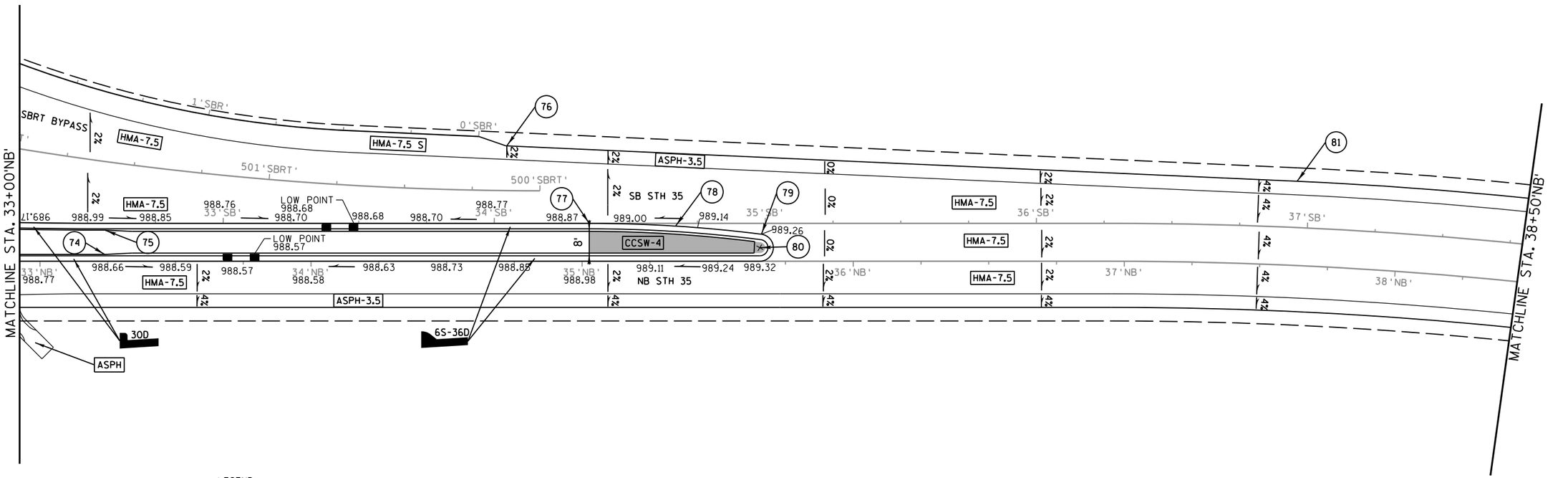
LEGEND (CONT.)

CCP-8	CONCRETE PAVEMENT 8-INCH SPECIAL WITH COLORING CONCRETE RED
CRTA-8	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH WITH COLORING CONCRETE RED
ASPH-3.5	ASPHALTIC SURFACE SPECIAL, 3.5-INCH SHOULDER
HMA-7.5	HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH
HMA-7.5 S	HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH SHOULDER
CCSW-4	CONCRETE SIDEWALK 4-INCH WITH COLORING CONCRETE RED
ASPH	ASPHALTIC FLUME

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVING DETAILS - STH 35/70 ROUNDABOUT	SHEET 26	E

DATA POINT TABLE

POINT	STATION	OFFSET (FT)	RADIUS	COMMENT
74	33+23.98 NB	-2.50 LT	--	10' CURB TRANSITION
75	32+56.41 SB	2.50 RT	--	10' CURB TRANSITION
76	34+04.32 SB	-28.57 LT	--	END HMA-7.5 S
77	34+35.03 SB	0.00 --	--	
78	34+66.88 SB	1.01 RT	500'	
79	34+98.59 SB	4.04 RT	--	
80	35+65.53 NB	-5.00 LT	3'	TYPE 1 NOSE
81	36+95.48 SB	-17.00 LT	--	



LEGEND

- 30D — CONCRETE CURB & GUTTER 30-INCH TYPE D
- 6S-36D — CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (3) — DATA POINT
- ■ — PROPOSED INLET
- ● — PROPOSED MANHOLE
- ASPH-3.5 — ASPHALTIC SURFACE SPECIAL, 3.5-INCH SHOULDER
- HMA-7.5 — HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH
- HMA-7.5 S — HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH SHOULDER
- CCSW-4 — CONCRETE SIDEWALK 4-INCH WITH COLORING CONCRETE RED
- ASPH — ASPHALTIC FLUME

NOTES:

RADIUS DIMENSIONS ARE SHOWN TO FACE OF CURB.

DATA POINT OFFSETS AND PAVEMENT GRADES ARE GIVEN TO THE FLANGE LINE.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25'INTERVALS.

SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION AND SUPERELEVATION TRANSITIONS

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVING DETAILS - STH 35	SHEET 27	E

DATA POINT TABLE

POINT	STATION	OFFSET (FT)	RADIUS	COMMENT
82	40+75.70 NB	17.00 RT	--	
83	42+07.07 NB	49.50 RT	40'	
84	42+07.07 NB	49.50 RT	64'	
85	42+27.93 NB	42.00 RT	20'	
86	42+28.96 NB	83.60 RT	--	
87	42+42.60 NB	103.90 RT	--	
88	42+93.78 NB	42.00 RT	20'	
89	43+95.27 NB	17.00 RT	--	

LEGEND

(3) DATA POINT

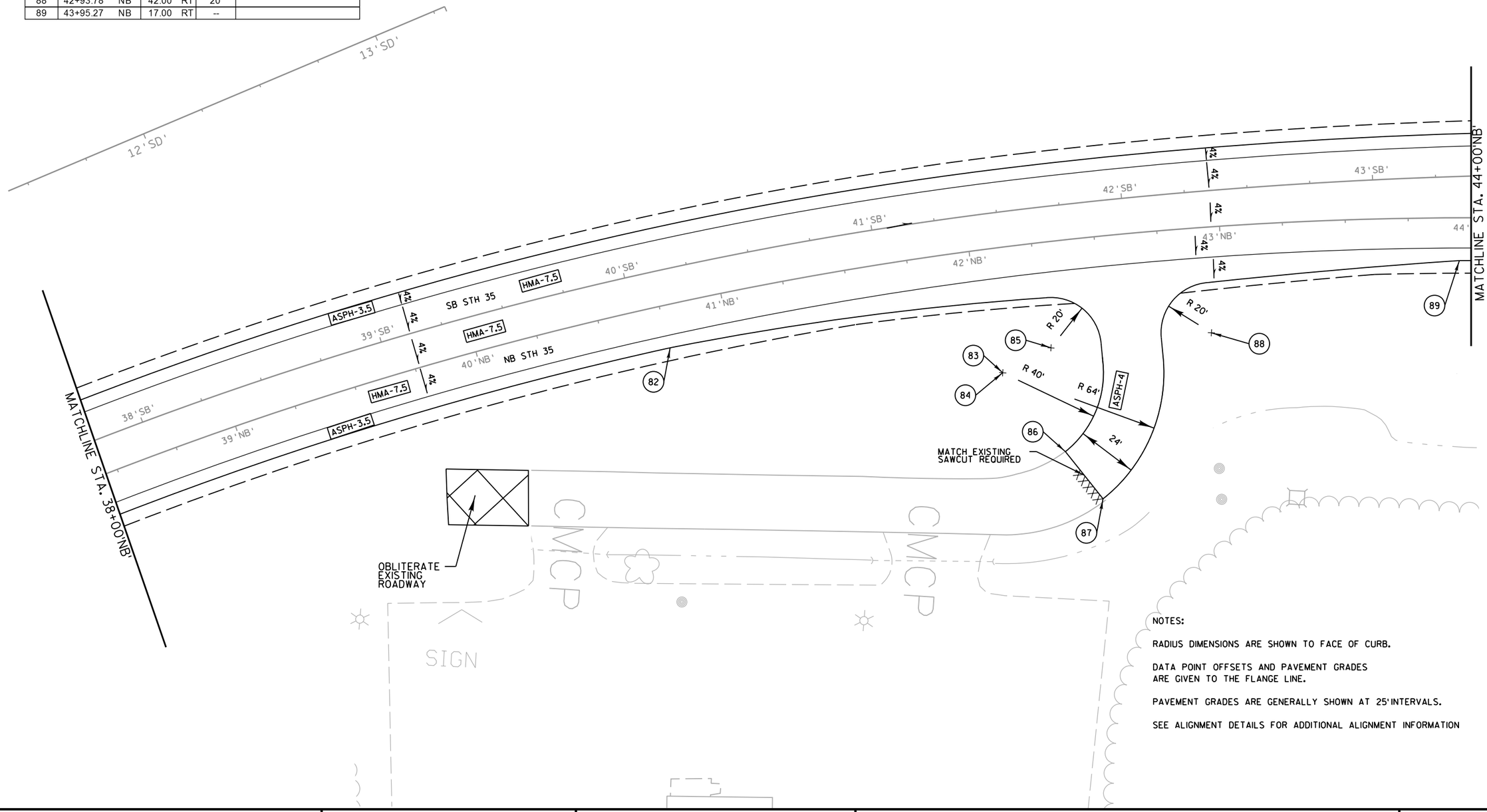
ASPH-3.5 ASPHALTIC SURFACE SPECIAL, 3.5-INCH SHOULDER

HMA-7.5 HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH

ASPH-4 ASPHALTIC SURFACE SPECIAL, 4-INCH

XXXXX SAWCUT

N



NOTES:

RADIUS DIMENSIONS ARE SHOWN TO FACE OF CURB.

DATA POINT OFFSETS AND PAVEMENT GRADES ARE GIVEN TO THE FLANGE LINE.

PAVEMENT GRADES ARE GENERALLY SHOWN AT 25'INTERVALS.

SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVING DETAILS	SHEET 28	E

N

LEGEND

(3)	DATA POINT
ASPH-3.5	ASPHALTIC SURFACE SPECIAL, 3.5-INCH SHOULDER
HMA-7.5	HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH
HMA-2	HMA PAVEMENT TYPE E-10 SPECIAL, 2-INCH MILL
ASPH-4	ASPHALTIC SURFACE SPECIAL, 4-INCH
XXXXX	SAWCUT

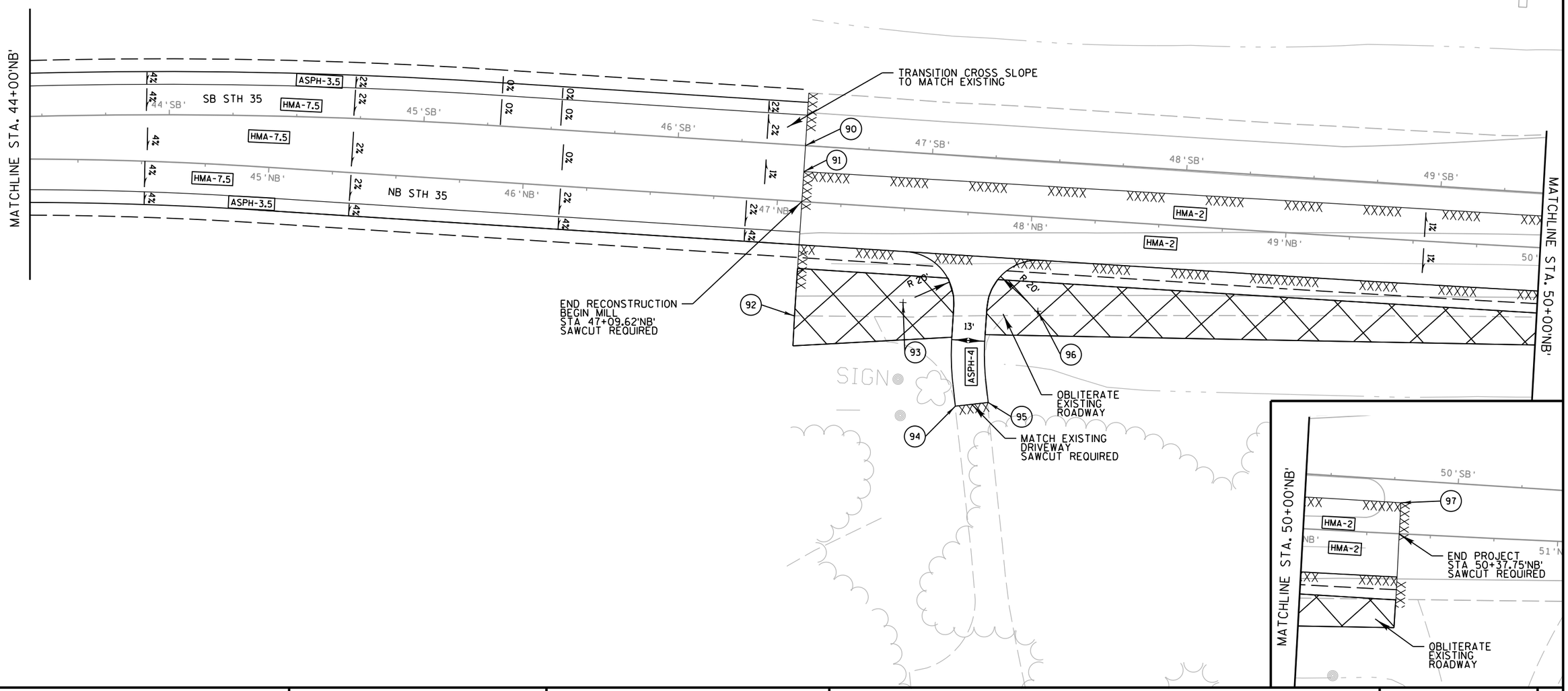
NOTES:

RADIUS DIMENSIONS AND DATA POINT OFFSETS ARE SHOWN TO THE EDGE OF PAVEMENT.

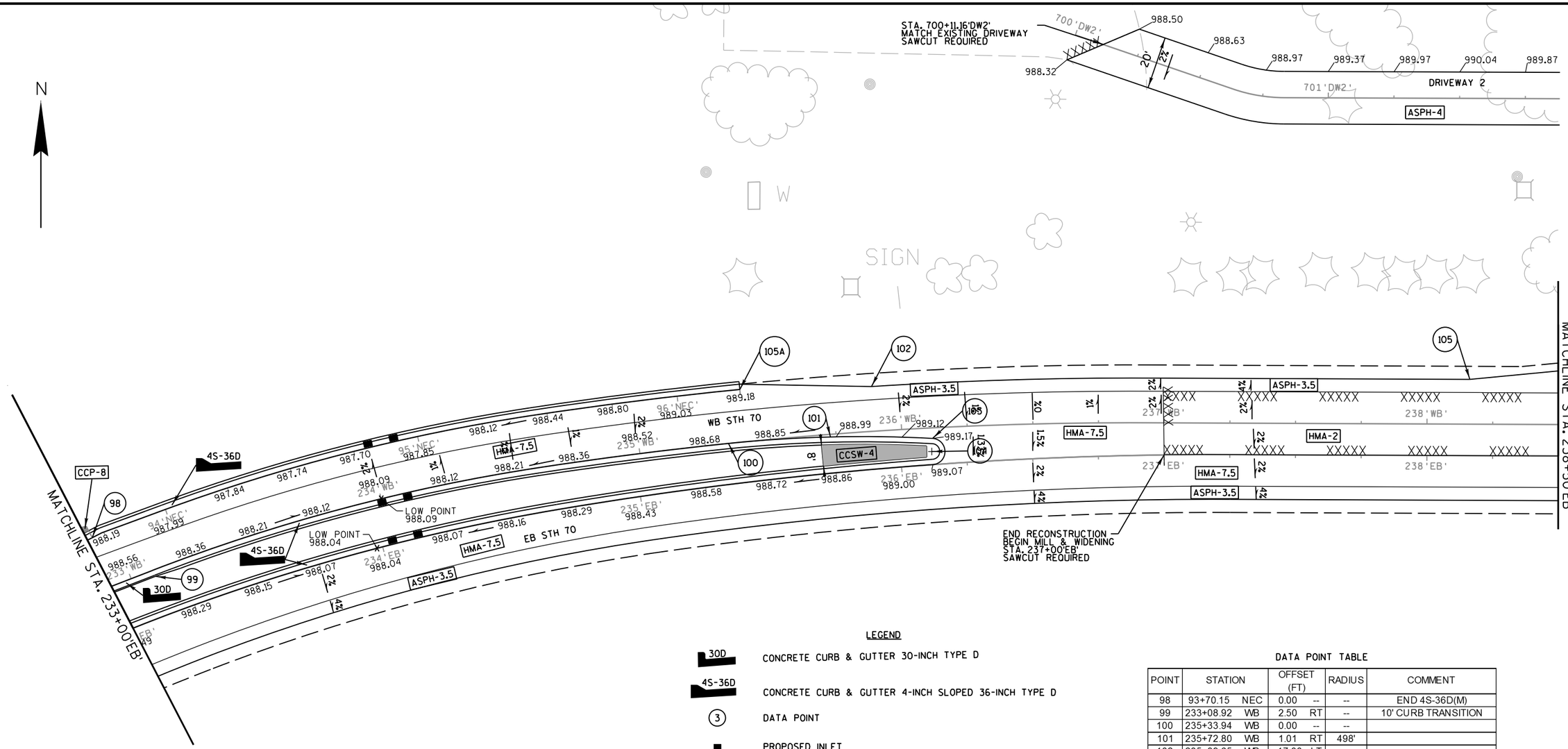
SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION AND SUPERELEVATION TRANSITIONS.

DATA POINT TABLE

POINT	STATION		OFFSET (FT)		RADIUS	COMMENT
90	46+50.02	SB	0.00	--	--	
91	47+09.62	NB	45.01	RT	--	
92	47+09.62	NB	-11.77	LT	--	
93	47+51.76	NB	37.00	RT	20'	
94	47+74.86	NB	76.29	RT	--	
95	47+87.66	NB	74.03	RT	--	
96	48+04.76	NB	37.00	RT	20'	
97	50+37.75	NB	-12.20	LT	--	



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVING DETAILS - STH 35	SHEET 29	E



LEGEND

30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
4S-36D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
(3)	DATA POINT
■	PROPOSED INLET
●	PROPOSED MANHOLE
ASPH-3.5	ASPHALTIC SURFACE SPECIAL, 3.5-INCH SHOULDER
HMA-7.5	HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH
HMA-2	HMA PAVEMENT TYPE E-10 SPECIAL, 2-INCH MILL
ASPH-4	ASPHALTIC SURFACE SPECIAL, 4-INCH
CCSW-4	CONCRETE SIDEWALK 4-INCH WITH COLORING CONCRETE RED
CCP-8	CONCRETE PAVEMENT 8-INCH SPECIAL WITH COLORING CONCRETE RED
XXXXX	SAWCUT

DATA POINT TABLE

POINT	STATION	OFFSET (FT)	RADIUS	COMMENT
98	93+70.15 NEC	0.00 --	--	END 4S-36D(M)
99	233+08.92 WB	2.50 RT	--	10' CURB TRANSITION
100	235+33.94 WB	0.00 --	--	
101	235+72.80 WB	1.01 RT	498'	
102	235+89.65 WB	-17.00 LT	--	
103	236+11.61 WB	4.03 RT	--	
104	236+11.90 EB	-5.00 LT	3'	TYPE 1 NOSE
105	238+16.21 WB	-17.00 LT	--	
105A	235+40.21 WB	-20.00 LT	--	

NOTES:

RADIUS DIMENSIONS ARE SHOWN TO FACE OF CURB.

DATA POINT OFFSETS AND PAVEMENT GRADES ARE GIVEN TO THE FLANGE LINE.

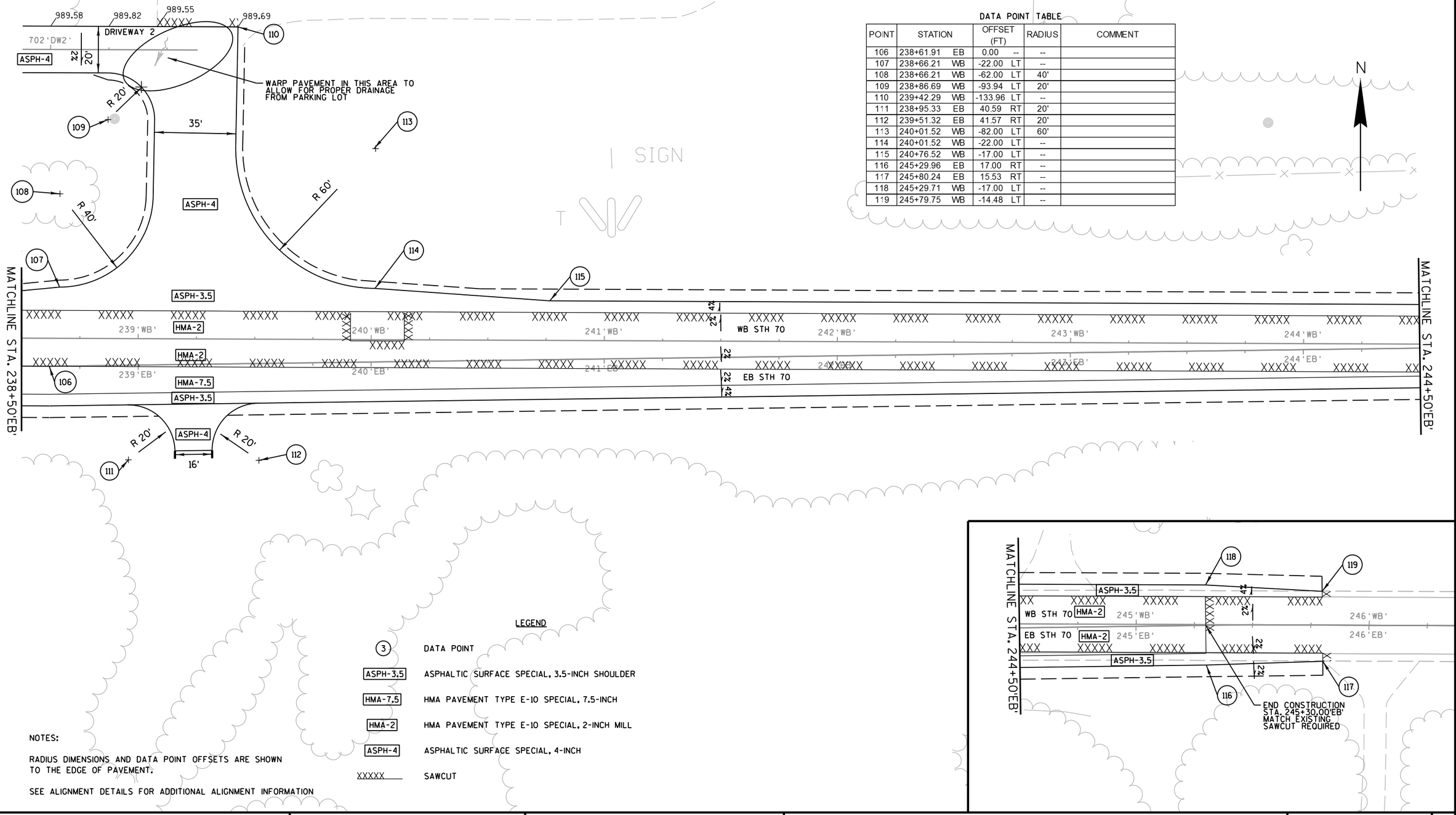
PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION AND SUPERELEVATION TRANSITIONS

2

DATA POINT TABLE

POINT	STATION	OFFSET (FT)	RADIUS	COMMENT
106	238+61.91 EB	0.00 --	--	
107	238+66.21 WB	-22.00 LT	--	
108	238+66.21 WB	-62.00 LT	40'	
109	238+86.69 WB	-93.94 LT	20'	
110	239+42.29 WB	-133.96 LT	--	
111	238+95.33 EB	40.59 RT	20'	
112	239+51.32 EB	41.57 RT	20'	
113	240+01.52 WB	-82.00 LT	60'	
114	240+01.52 WB	-22.00 LT	--	
115	240+76.52 WB	-17.00 LT	--	
116	245+29.96 EB	17.00 RT	--	
117	245+80.24 EB	15.53 RT	--	
118	245+29.71 WB	-17.00 LT	--	
119	245+79.75 WB	-14.48 LT	--	



LEGEND

(3)	DATA POINT
ASPH-3.5	ASPHALTIC SURFACE SPECIAL, 3.5-INCH SHOULDER
HMA-7.5	HMA PAVEMENT TYPE E-10 SPECIAL, 7.5-INCH
HMA-2	HMA PAVEMENT TYPE E-10 SPECIAL, 2-INCH MILL
ASPH-4	ASPHALTIC SURFACE SPECIAL, 4-INCH
XXXXX	SAWCUT

NOTES:

RADIUS DIMENSIONS AND DATA POINT OFFSETS ARE SHOWN TO THE EDGE OF PAVEMENT.

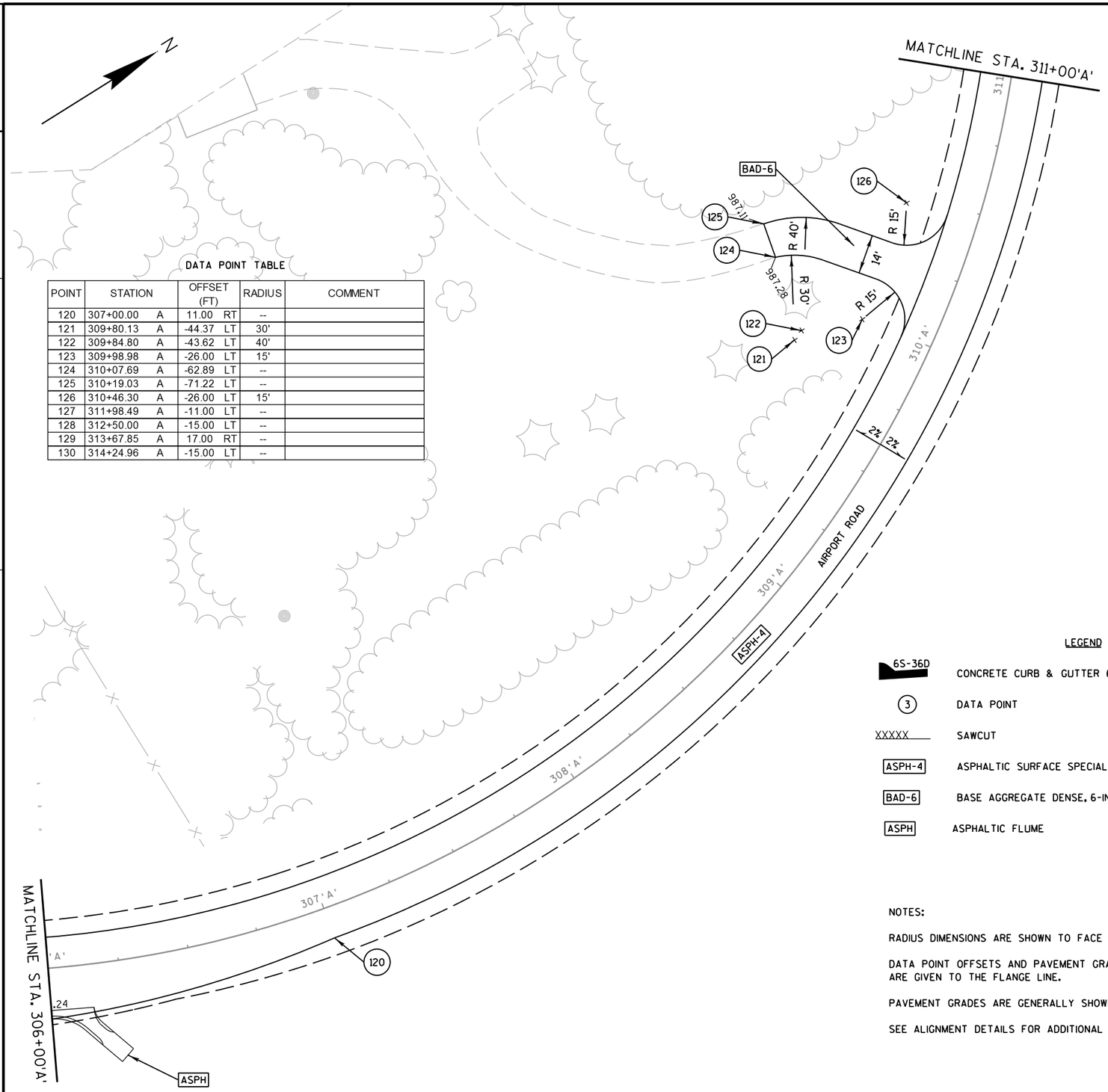
SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION

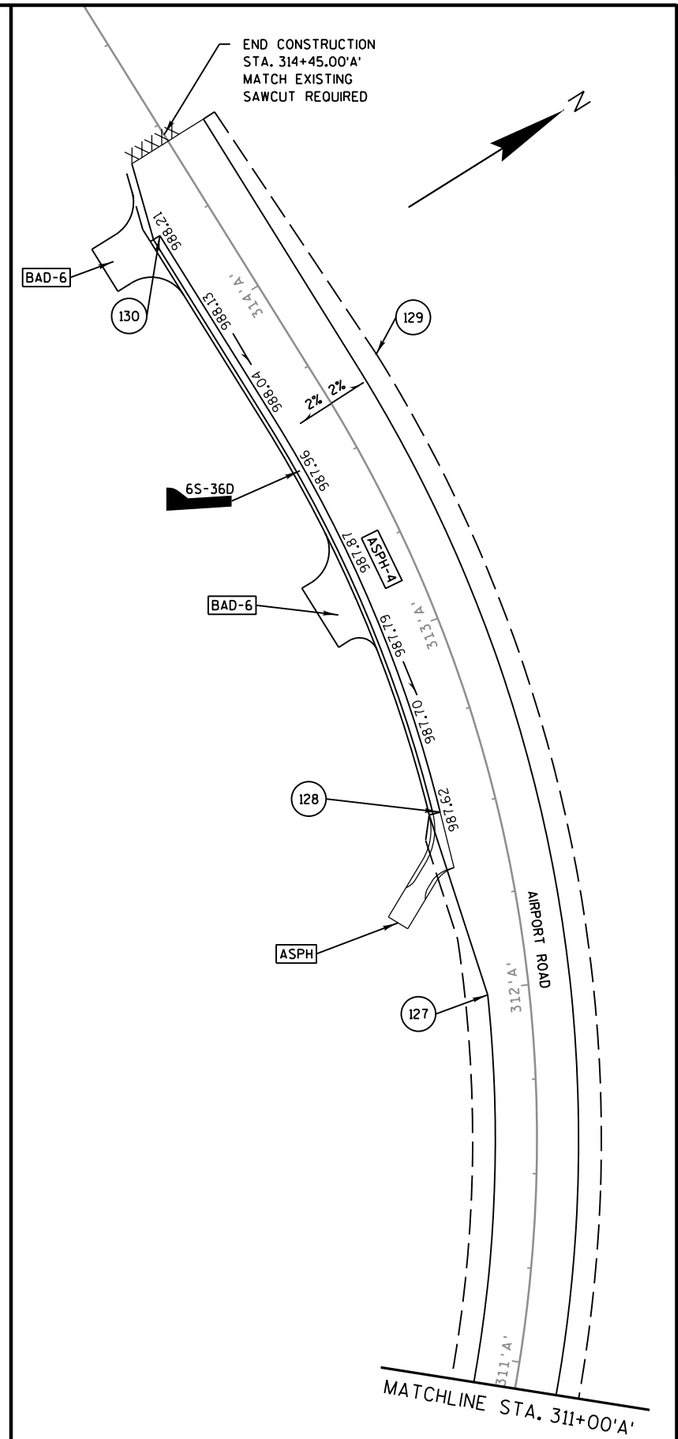
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVING DETAILS - STH 70	SHEET	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\021110_id.dgn PLOT DATE : 4/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 40.0000 sf / in.
WISDOT/CADDS SHEET 42

DATA POINT TABLE

POINT	STATION		OFFSET (FT)		RADIUS	COMMENT
120	307+00.00	A	11.00	RT	--	
121	309+80.13	A	-44.37	LT	30'	
122	309+84.80	A	-43.62	LT	40'	
123	309+98.98	A	-26.00	LT	15'	
124	310+07.69	A	-62.89	LT	--	
125	310+19.03	A	-71.22	LT	--	
126	310+46.30	A	-26.00	LT	15'	
127	311+98.49	A	-11.00	LT	--	
128	312+50.00	A	-15.00	LT	--	
129	313+67.85	A	17.00	RT	--	
130	314+24.96	A	-15.00	LT	--	





LEGEND

6S-36D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
(3)	DATA POINT
XXXXX	SAWCUT
ASPH-4	ASPHALTIC SURFACE SPECIAL, 4-INCH
BAD-6	BASE AGGREGATE DENSE, 6-INCH
ASPH	ASPHALTIC FLUME

NOTES:

RADIUS DIMENSIONS ARE SHOWN TO FACE OF CURB.

DATA POINT OFFSETS AND PAVEMENT GRADES ARE GIVEN TO THE FLANGE LINE.

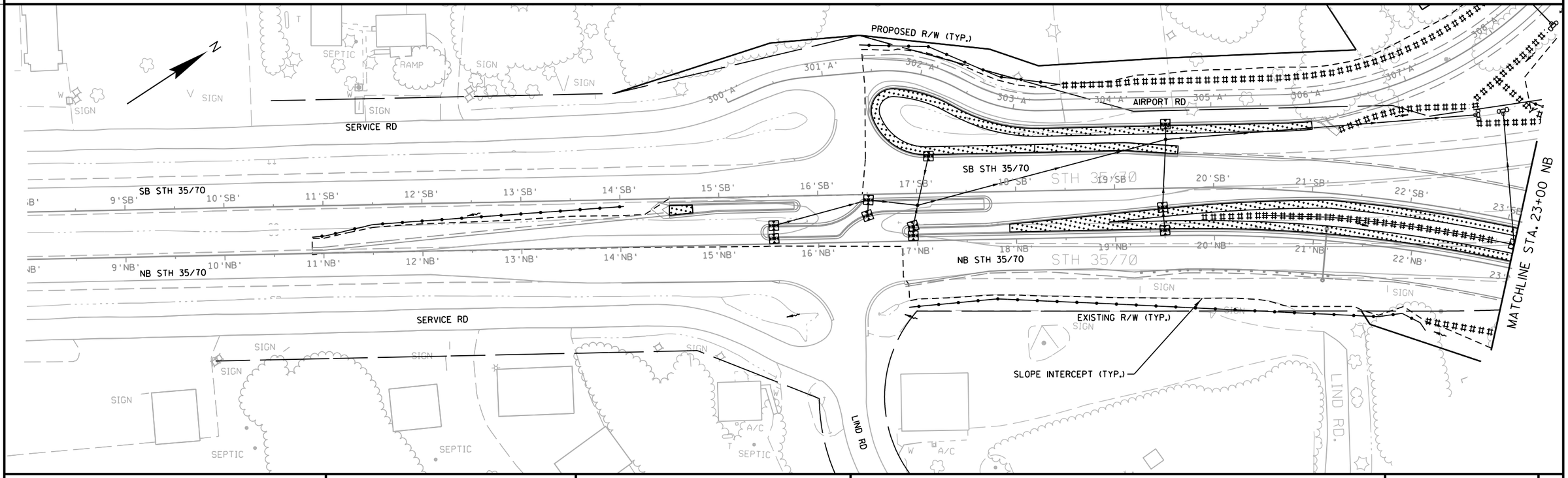
PAVEMENT GRADES ARE GENERALLY SHOWN AT 25'INTERVALS.

SEE ALIGNMENT DETAILS FOR ADDITIONAL ALIGNMENT INFORMATION

2

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- RIP RAP, MEDIUM
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- NO TOPSOIL OR FERTILIZER AREA



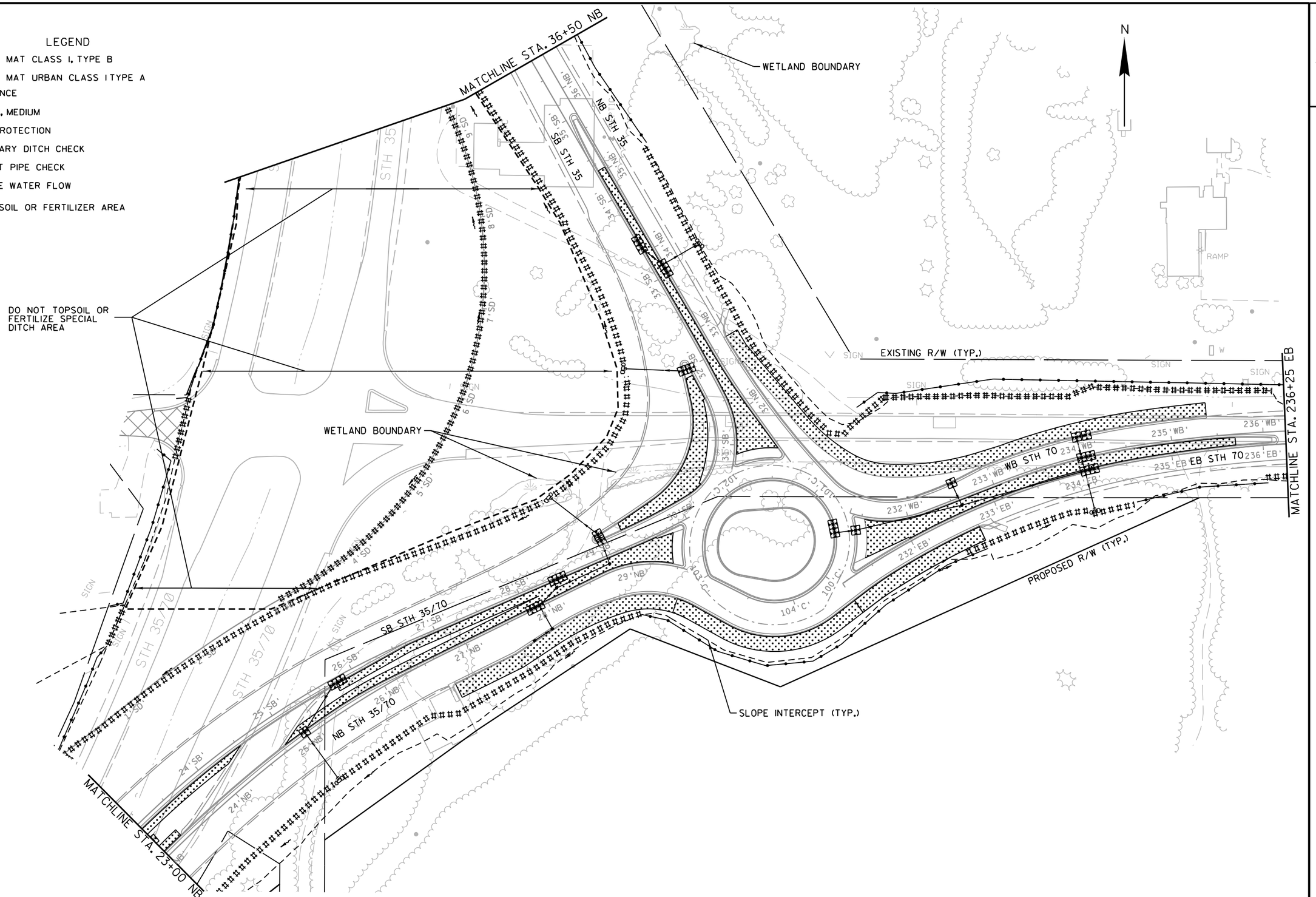
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EROSION CONTROL	SHEET 33	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\021501_ec.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

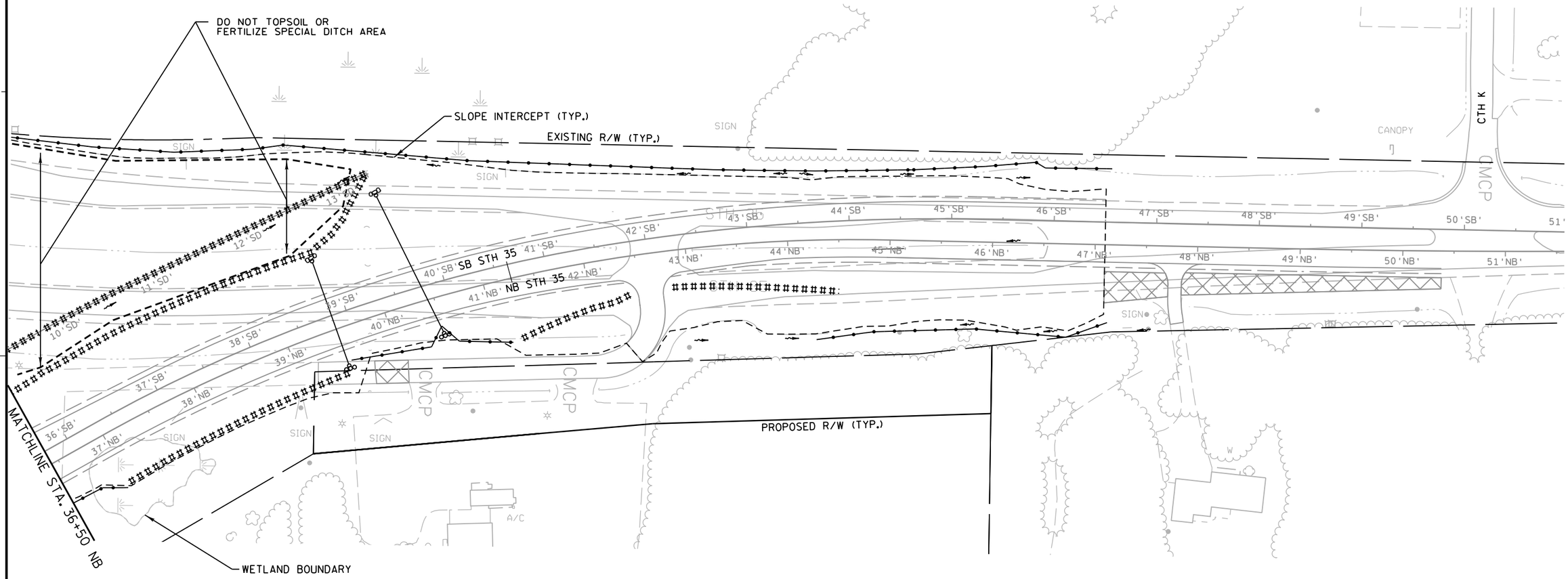
LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- RIP RAP, MEDIUM
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- NO TOPSOIL OR FERTILIZER AREA



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EROSION CONTROL	SHEET 34	E

2

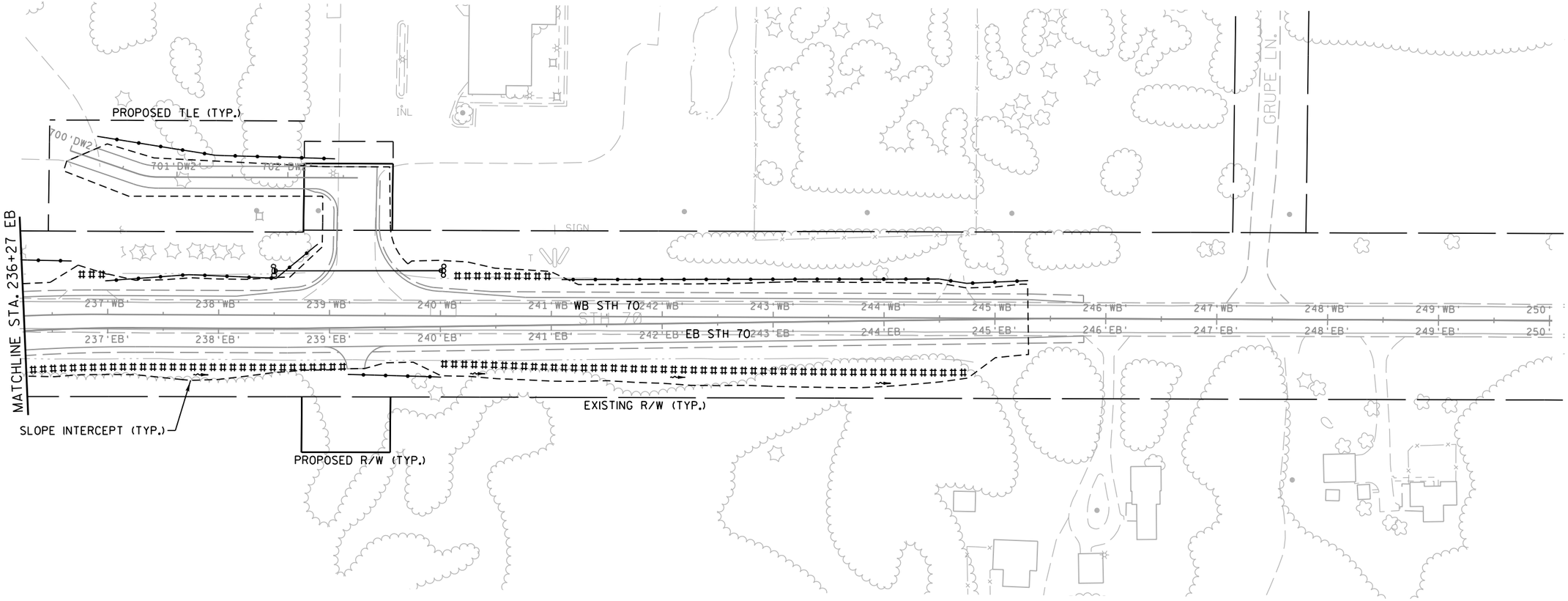


LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- RIP RAP, MEDIUM
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- NO TOPSOIL OR FERTILIZER AREA

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EROSION CONTROL	SHEET 35	E

2



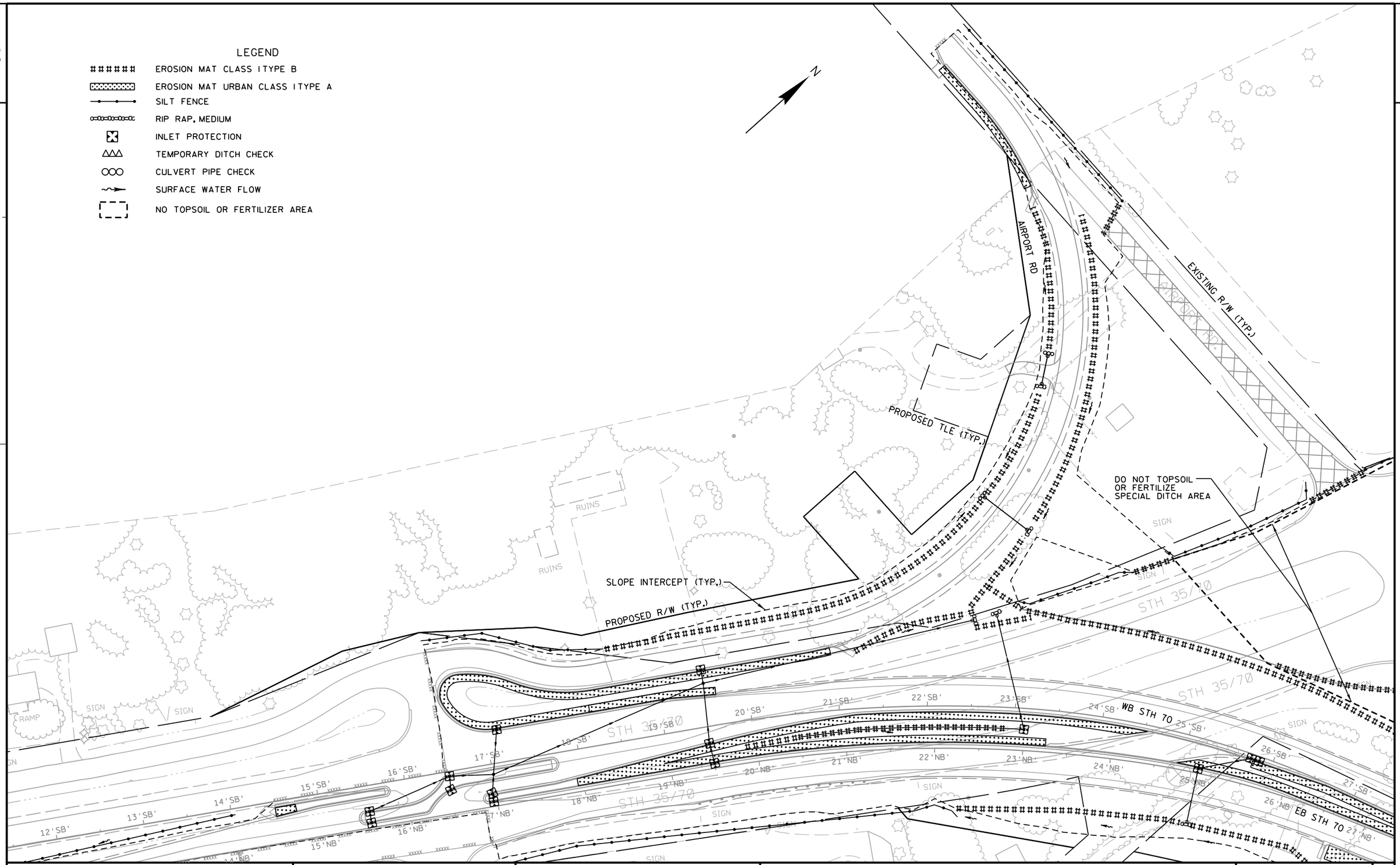
LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- RIP RAP. MEDIUM
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- NO TOPSOIL OR FERTILIZER AREA

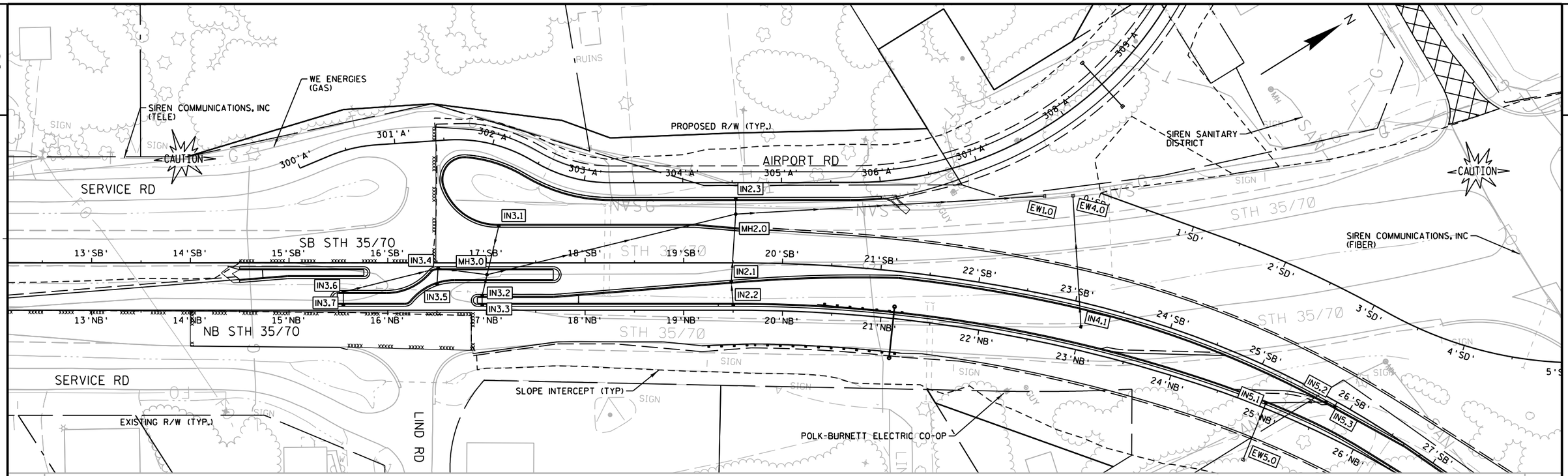
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EROSION CONTROL	SHEET 36	E

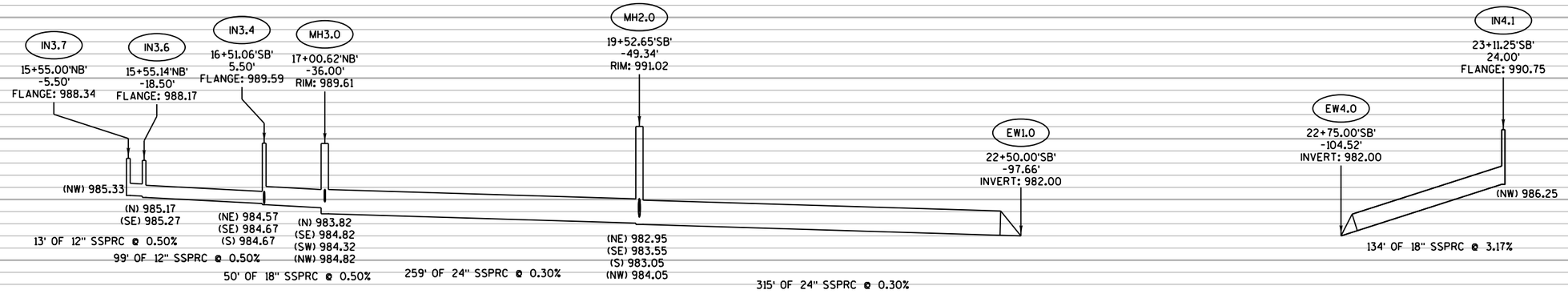
LEGEND

- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE A
- SILT FENCE
- RIP RAP, MEDIUM
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- NO TOPSOIL OR FERTILIZER AREA

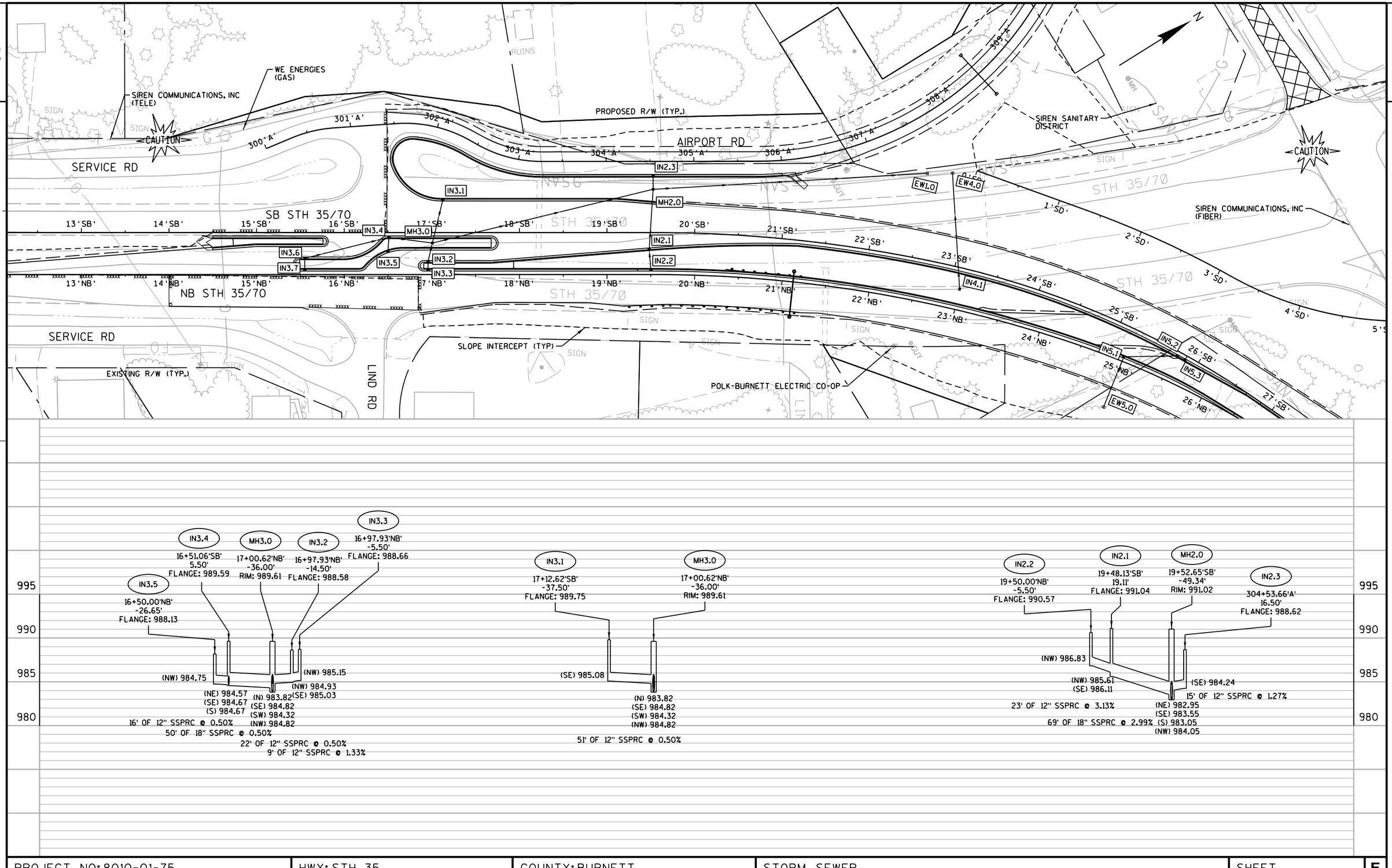


PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EROSION CONTROL	SHEET 37	E

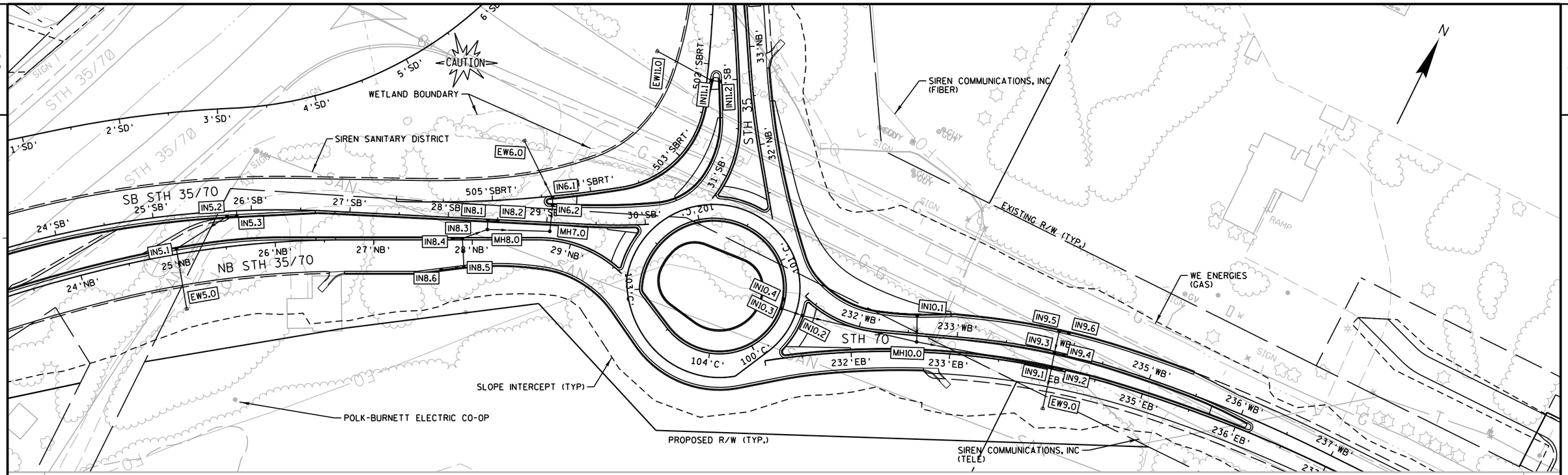


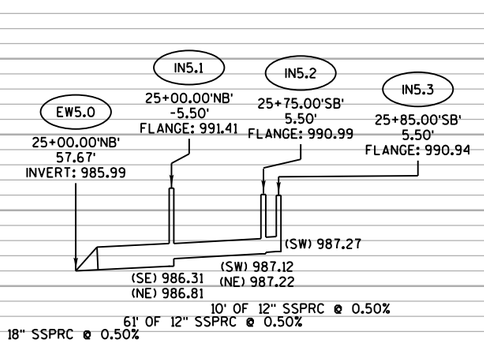


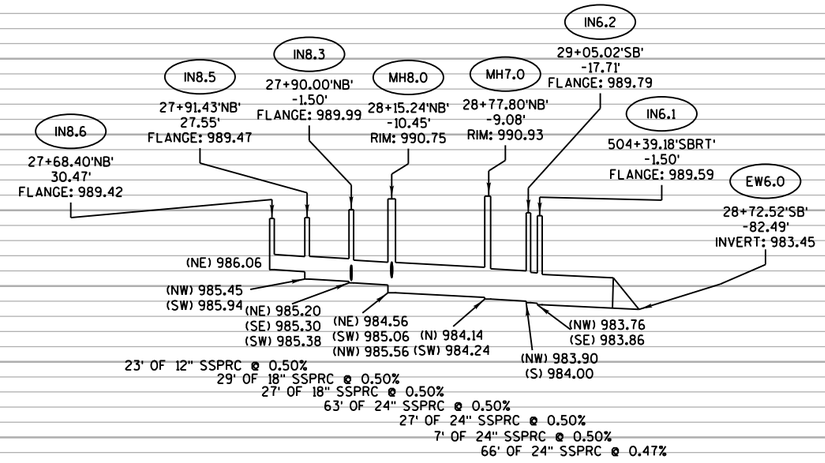
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	STORM SEWER	SHEET 38	E

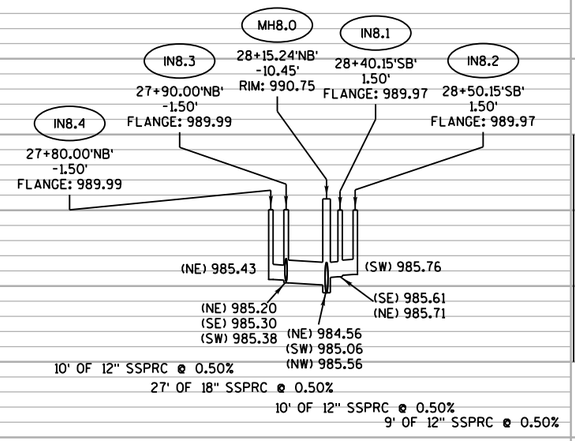


PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	STORM SEWER	SHEET 39	E

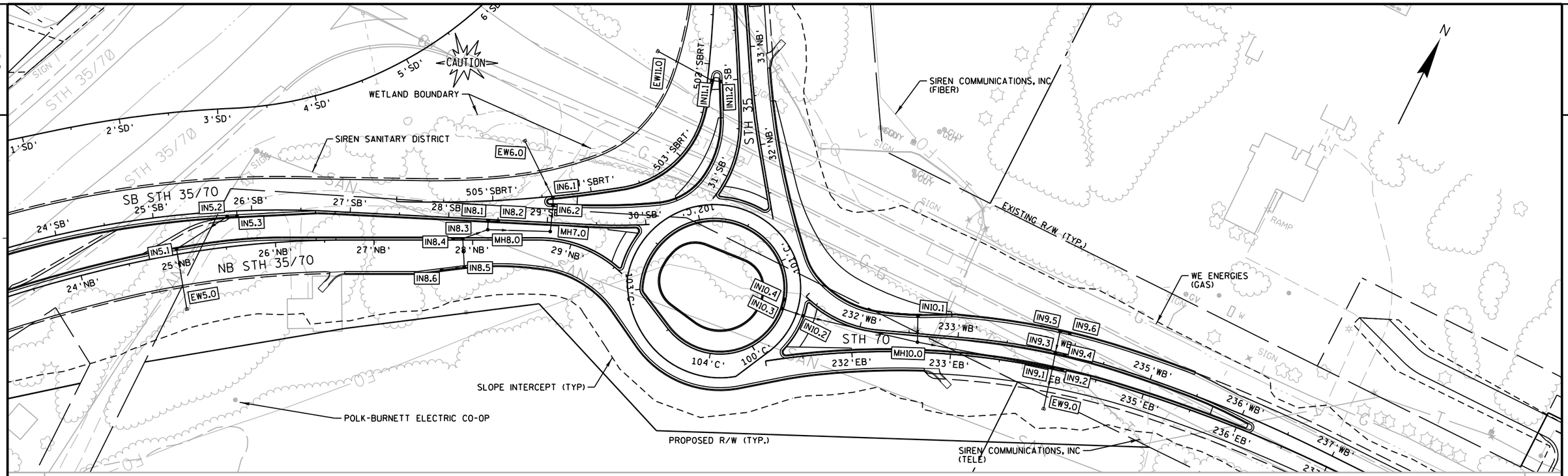


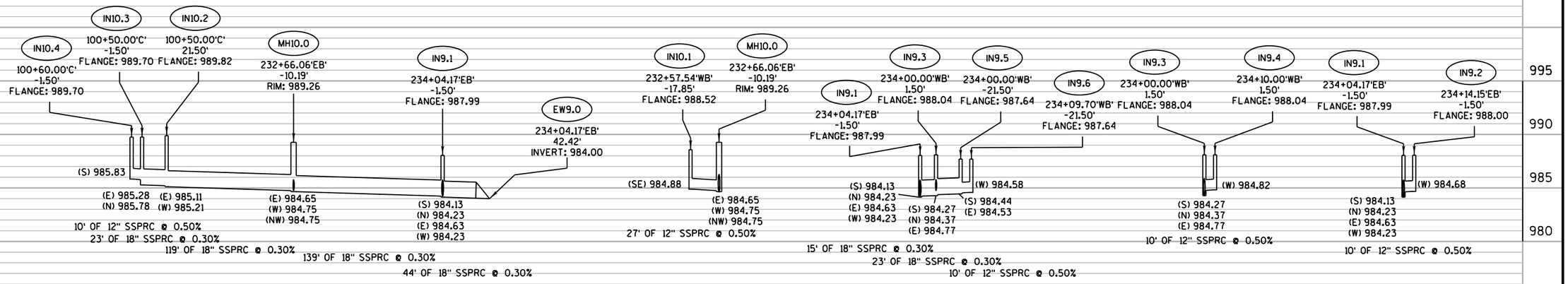




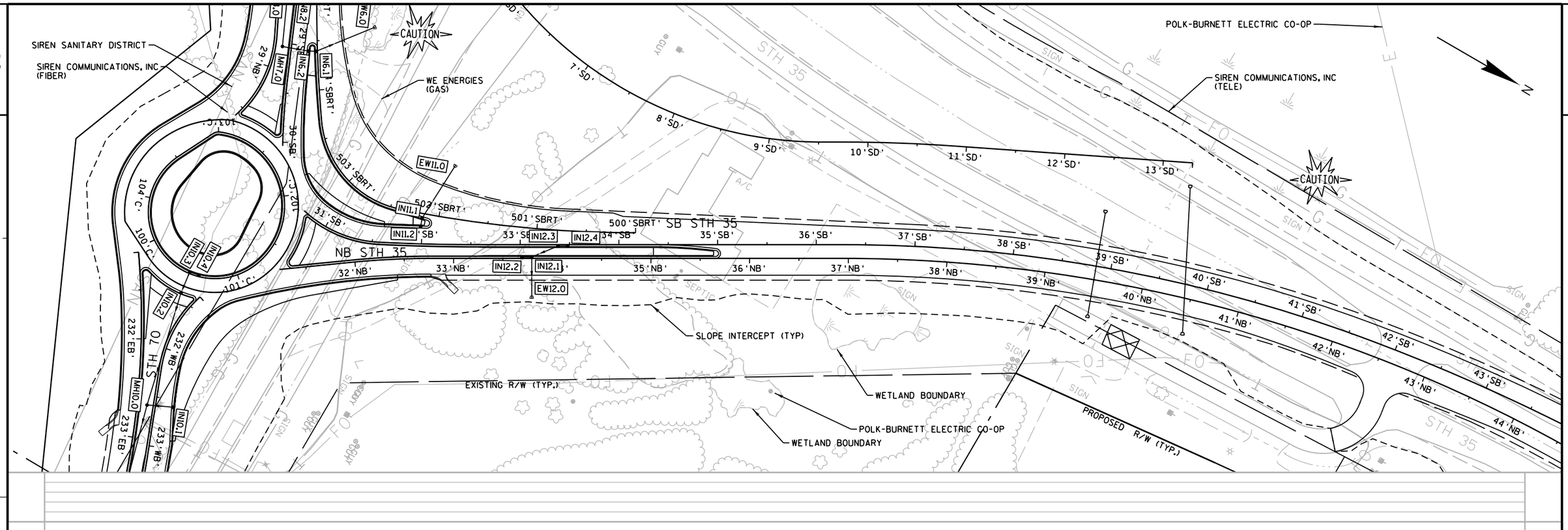


PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	STORM SEWER	SHEET 40	E





PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	STORM SEWER	SHEET 41	E



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	STORM SEWER	SHEET 42	E

STORM SEWER SCHEDULE

NO.	STATION	OFFSET	STRUCTURE	STRUCTURE TYPE	COVER TYPE	RIM OR FLANGE ELEV	TOP OF STRUCTURE ELEV	FLOWLINE OF STRUCTUE	STRUCTURE DEPTH FEET	REMARKS	DISCHARGE PIPE SIZE INCHES	DISTANCE FEET	SLOPE %	PIPE PIPE CLASS	DRAINS TO	DOWNSTREAM DISCHARGE ELEV
IN3.7	15+55.00'NB'	5.50 LT	INLET	2X3-FT	HM	988.34	987.34	985.33	2.01		12	13	0.50%	III	IN3.6	985.27
IN3.6	15+55.14'NB'	18.50 LT	INLET	2X3-FT	HM	988.17	987.17	985.17	2.01		12	99	0.50%	III	IN3.4	984.67
IN3.5	16+50.00'NB'	26.65 LT	INLET	2X3-FT	HM	988.13	987.13	984.75	2.38		12	16	0.50%	III	IN3.4	984.67
IN3.4	16+51.06'SB'	5.50 RT	INLET	2X3-FT	HM	989.59	988.59	984.57	4.02		18	50	0.50%	III	MH3.0	984.32
IN3.3	16+97.93'NB'	5.50 LT	INLET	2X3-FT	HM	988.66	987.66	985.15	2.51		12	9	1.33%	III	IN3.2	985.03
IN3.2	16+97.93'NB'	14.50 LT	INLET	2X3-FT	HM	988.58	987.58	984.93	2.65		12	22	0.50%	III	MH3.0	984.82
IN3.1	17+12.62'SB'	37.50 LT	INLET	2X3-FT	HM-S	989.75	988.75	985.08	3.67		12	51	0.50%	III	MH3.0	984.82
MH3.0	17+00.62'NB'	36.00 LT	MANHOLE	6' DIAM	J	989.61	988.36	983.82	4.54		24	259	0.30%	III	MH2.0	983.05
IN2.3	304+53.66'A'	16.50 RT	INLET	2X3-FT	HM-S	988.62	987.62	984.24	3.38		12	15	1.27%	III	MH2.0	984.05
IN2.2	19+50.00'NB'	5.50 LT	INLET	2X3-FT	HM	990.57	989.57	986.83	2.74	DRIVEWAY CURB	12	23	3.13%	III	IN2.1	986.11
IN2.1	19+48.13'SB'	19.11 RT	INLET	2X3-FT	HM	991.04	990.04	985.61	4.43		18	69	2.99%	III	MH2.0	983.55
MH2.0	19+52.65'SB'	49.34 LT	MANHOLE	6' DIAM	J	991.02	989.77	982.95	6.82		24	315	0.30%	III	EW1.0	982.00
EW1.0	22+50.00'SB'	97.66 LT	ENDWALL	---	---	---	---	---	---	PIPE GRATE REQUIRED	---	---	---	---	---	---
IN4.1	23+11.25'SB'	24.00 RT	INLET	MEDIAN 1 GRATE	MS	990.75	990.56	986.25	4.31		18	134	3.17%	III	EW4.0	982.00
EW4.0	22+75.00'SB'	104.52 LT	ENDWALL	---	---	---	---	---	---		---	---	---	---	---	---
IN5.3	25+85.00'SB'	5.50 RT	INLET	2X3-FT	HM	990.94	989.94	987.27	2.67		12	10	0.50%	III	IN5.2	987.22
IN5.2	25+75.00'SB'	5.50 RT	INLET	2X3-FT	HM	990.99	990.04	987.12	2.92		12	61	0.50%	III	IN5.1	986.81
IN5.1	25+00.00'NB'	5.50 LT	INLET	2X3-FT	HM	991.41	990.41	986.31	4.10		18	63	0.50%	III	EW5.0	985.99
EW5.0	25+00.00'NB'	57.67 RT	ENDWALL	---	---	---	---	---	---		---	---	---	---	---	---
IN8.6	27+68.40'NB'	30.47 RT	INLET	2X3-FT	HM-S	989.42	988.42	986.06	2.36		12	23	0.52%	III	IN8.5	985.94
IN8.5	27+91.43'NB'	27.55 RT	INLET	2X3-FT	HM-S	989.47	988.47	985.45	3.02		18	29	0.50%	III	IN8.3	985.30
IN8.4	27+80.00'NB'	1.50 LT	INLET	2X3-FT	HM-S	989.99	988.99	985.43	3.56		12	10	0.50%	III	IN8.3	985.38
IN8.3	27+90.00'NB'	1.50 LT	INLET	2X3-FT	HM-S	989.99	988.99	985.20	3.79		18	27	0.50%	III	MH8.0	985.06
IN8.2	28+50.15'SB'	1.50 RT	INLET	2X3-FT	HM-S	989.97	988.97	985.76	3.21		12	10	0.50%	III	IN8.1	985.71
IN8.1	28+40.15'SB'	1.50 RT	INLET	2X3-FT	HM-S	989.97	988.97	985.61	3.36		12	9	0.50%	III	MH8.0	985.56
MH8.0	28+15.24'NB'	10.45 LT	MANHOLE	5' DIAM	J	990.75	989.50	984.56	4.94		24	63	0.50%	III	MH7.0	984.24
MH7.0	28+77.80'NB'	9.08 LT	MANHOLE	5' DIAM	J	990.93	989.68	984.14	5.54		24	27	0.50%	III	IN6.2	984.00
IN6.2	29+05.02'SB'	17.71 LT	INLET	2X3-FT	HM	989.79	988.79	983.90	4.89		24	7	0.50%	III	IN6.1	983.86
IN6.1	504+39.18'SBRT'	1.50 LT	INLET	2X3-FT	HM	989.59	988.59	983.76	4.83		24	66	0.47%	III	EW6.0	983.45
EW6.0	28+72.52'SB'	82.49 RT	ENDWALL	---	---	---	---	---	---	PIPE GRATE REQUIRED	---	---	---	---	---	---
IN10.4	100+60.00'C'	1.50 LT	INLET	2X2.5-FT	T	989.70	988.62	985.83	2.79		12	10	0.50%	III	IN10.3	985.78
IN10.3	100+50.00'C'	1.50 LT	INLET	2X2.5-FT	T	989.70	988.62	985.28	3.34		18	23	0.30%	III	IN10.2	985.21
IN10.2	100+50.00'C'	21.50 RT	INLET	2X3-FT	H-S	989.82	988.82	985.11	3.71		18	119	0.30%	III	MH10.0	984.75
IN10.1	232+57.54'WB'	17.85 LT	INLET	2X3-FT	HM	988.52	987.52	984.88	2.64		12	27	0.50%	III	MH10.0	984.75
MH10.0	232+66.06'EB'	10.19 LT	MANHOLE	5' DIAM	J	989.26	988.01	984.65	3.36		18	139	0.30%	III	IN9.1	984.23
IN9.6	234+09.70'WB'	21.50 LT	INLET	2X3-FT	HM-S	987.64	986.64	984.58	2.06		12	10	0.50%	III	IN9.5	984.53
IN9.5	234+00.00'WB'	21.50 LT	INLET	2X3-FT	HM-S	987.64	986.64	984.44	2.20		18	23	0.30%	III	IN9.3	984.37
IN9.4	234+10.02'WB'	1.50 RT	INLET	2X3-FT	HM-S	988.04	987.04	984.82	2.22		12	10	0.50%	III	IN9.3	984.77
IN9.3	234+00.00'WB'	1.50 RT	INLET	2X3-FT	HM-S	988.04	987.04	984.27	2.77		18	15	0.30%	III	IN9.1	984.23
IN9.2	234+14.15'EB'	1.50 LT	INLET	2X3-FT	HM-S	988.00	987.00	984.68	2.32		12	10	0.50%	III	IN9.1	984.63
IN9.1	234+04.17'EB'	1.50 LT	INLET	4' DIAM	HM-S	987.99	986.99	984.13	2.86		18	44	0.30%	III	EW9.0	984.00
EW9.0	234+04.17'EB'	42.42 RT	ENDWALL	---	---	---	---	---	---		---	---	---	---	---	---

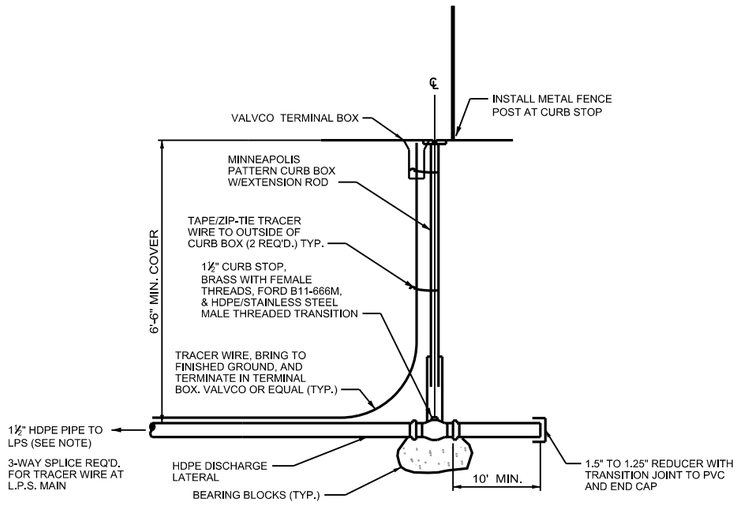
STRUCTURE DEPTH = RIM ELEVATION MINUS 15" FOR STRUCTURES WITH TYPE J CASTINGS (9" CASTING, 6" ADJUSTING)
STRUCTURE DEPTH = FLANGE ELEVATION MINUS 12" FOR STRUCTURES WITH TYPE H, H-S, HM, & HM-S CASTINGS (6" CASTING, 6" ADJUSTING)
STRUCTURE DEPTH = FLANGE ELEVATION MINUS 13" FOR STRUCTURES WITH TYPE T CASTINGS (7" CASTING, 6" ADJUSTING)
STRUCTURE DEPTH = FLANGE ELEVATION MINUS 2.25" FOR STRUCTURES WITH TYPE MS CASTINGS
OFFSET IS TO CENTER OF STRUCTURE FOR MANHOLES AND INLETS
OFFSET IS TO END OF STRUCTURE ENDWALLS

CONTINUED ON NEXT SHEET

STORM SEWER SCHEDULE (CONTINUED)

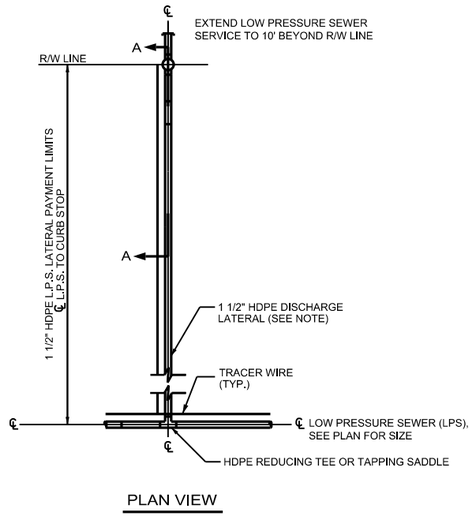
				STRUCTURE							DISCHARGE PIPE					
NO.	STATION	OFFSET	STRUCTURE	STRUCTURE TYPE	COVER TYPE	RIM OR FLANGE ELEV	TOP OF STRUCTURE ELEV	FLOWLINE OF STRUCTUE	STRUCTURE DEPTH FEET	REMARKS	SIZE INCHES	DISTANCE FEET	SLOPE %	PIPE PIPE CLASS	DRAINS TO	DOWNSTREAM DISCHARGE ELEV
IN11.2	31+98.62'SB'	17.50 LT	INLET	2X3-FT	HM-S	989.01	988.01	985.02	2.99		12	9	0.50%	III	IN11.1	984.98
IN11.1	502+16.67'SBRT'	4.76 RT	INLET	2X3-FT	HM-S	988.87	987.87	984.48	3.39		18	64	0.50%	III	EW11.0	984.16
EW11.0	32+33.82'SB'	80.65 RT	ENDWALL	---	---	---	---	---	---		---	---	---	---	---	---
IN12.4	33+48.16'SB'	1.50 RT	INLET	2X3-FT	HM-S	988.63	987.63	985.33	2.30		12	10	0.50%	III	IN12.3	985.28
IN12.3	33+38.16'SB'	1.50 RT	INLET	2X3-FT	HM-S	988.63	987.63	985.18	2.45		12	29	0.50%	III	IN12.1	985.04
IN12.2	33+69.25'NB'	1.50 LT	INLET	2X3-FT	HM-S	988.52	987.52	985.09	2.43		12	10	0.50%	III	IN12.1	985.04
IN12.1	33+79.25'NB'	1.50 LT	INLET	2X3-FT	HM-S	988.52	987.52	984.54	2.98		18	42	0.32%	III	EW12.0	984.41
EW12.0	33+79.25'NB'	40.54 RT	ENDWALL	---	---	---	---	---	---		---	---	---	---	---	---

STRUCTURE DEPTH = RIM ELEVATION MINUS 15" FOR STRUCTURES WITH TYPE J CASTINGS (9" CASTING, 6" ADJUSTING)
STRUCTURE DEPTH = FLANGE ELEVATION MINUS 12" FOR STRUCTURES WITH TYPE H, H-S, HM, & HM-S CASTINGS (6" CASTING, 6" ADJUSTING)
STRUCTURE DEPTH = FLANGE ELEVATION MINUS 13" FOR STRUCTURES WITH TYPE T CASTINGS (7" CASTING, 6" ADJUSTING)
STRUCTURE DEPTH = FLANGE ELEVATION MINUS 2.25" FOR STRUCTURES WITH TYPE MS CASTINGS
OFFSET IS TO CENTER OF STRUCTURE FOR MANHOLES AND INLETS
OFFSET IS TO END OF STRUCTURE ENDWALLS



SECTION A-A

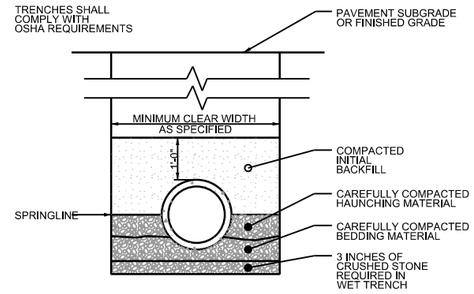
FOR HDPE PIPE LATERAL
ALL TRANSITION FITTINGS TO BE THREADED 304 STAINLESS STEEL TO POLYETHYLENE OR 2 LB. ZINC ANNODE.



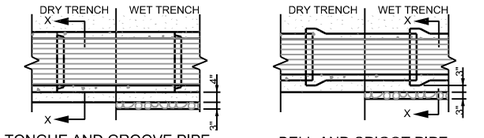
PLAN VIEW

TYPICAL DISCHARGE LATERAL

SCALE: NONE



SECTION X-X



TONGUE AND GROOVE PIPE

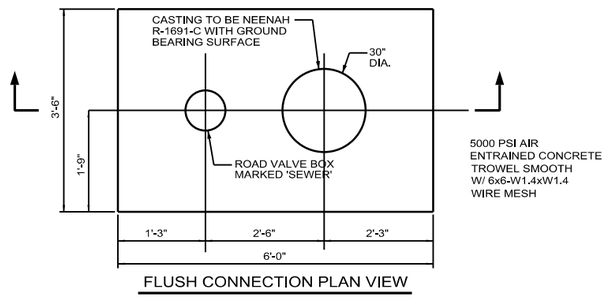
BELL AND SPIGOT PIPE

GENERAL NOTES:

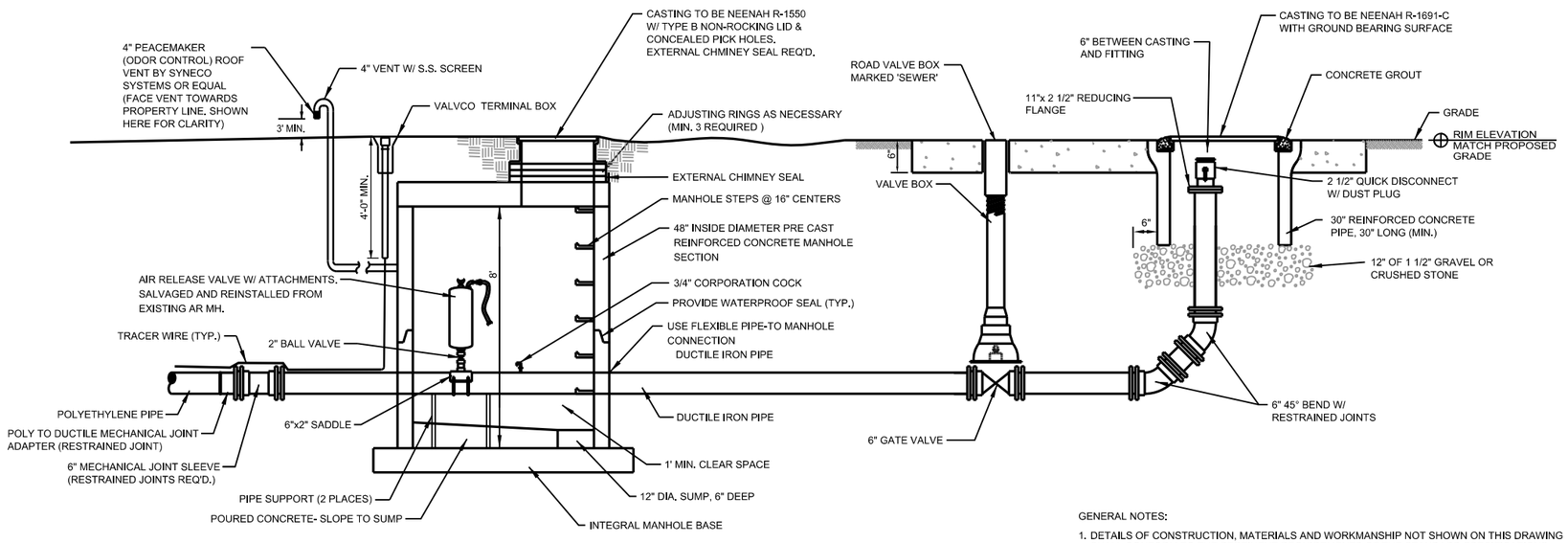
1. BEDDING AND HAUNCHING MATERIAL SHALL BE WELL-GRADED 3/4 TO 1/4 INCH CRUSHED STONE OR OTHER NONE COHESIVE MATERIAL NOT SUBJECT TO MIGRATION AND FREE OF DEBRIS, ORGANIC MATERIAL, AND LARGE STONES.
2. BEDDING MATERIAL TO BE PLACED BEFORE SETTING PIPE, 4 INCH MINIMUM UNDER BARREL WITH 3 INCH MINIMUM UNDER BELL.
3. INITIAL BACKFILL SHALL BE DENSELY COMPACTED, NON-COHESIVE FINELY DIVIDED MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND LARGE STONES.
4. IN ROCK OR OTHER INCOMPRESSABLE MATERIALS, THE TRENCH SHALL BE OVEREXCAVATED A MINIMUM OF 6-INCHES AND REFILLED WITH GRANULAR MATERIAL.

CLASS "B" EMBEDMENT DETAIL

SCALE: NONE



FLUSH CONNECTION PLAN VIEW



AIR RELEASE MANHOLE W/ FLUSH CONNECTION

SCALE: NONE

RESTRAINED JOINTS ARE TO BE MEGALUG GLANDS

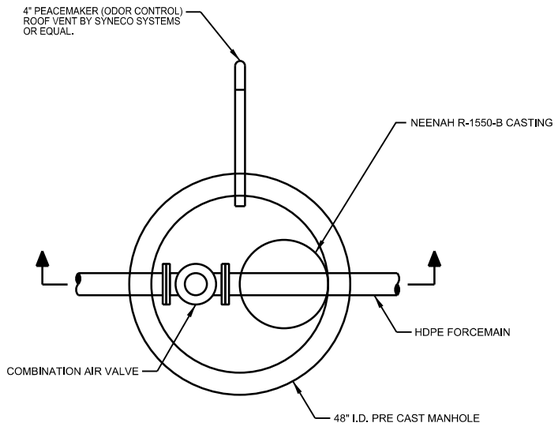
GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROCEDURES.
2. DETAILED DRAWINGS FOR UNDERGROUND STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

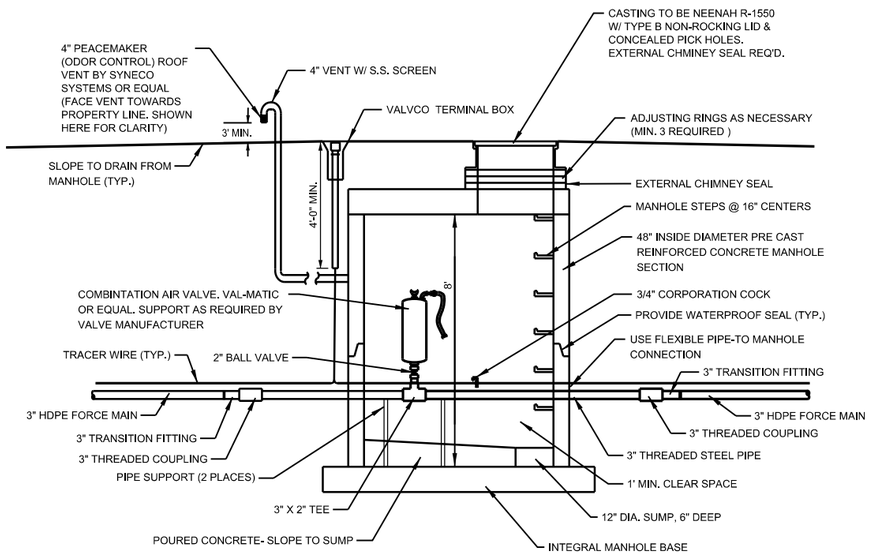
GENERAL NOTES:

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

2. DETAILED DRAWINGS FOR UNDERGROUND STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.



SECTION

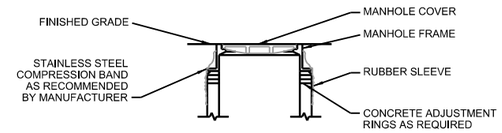


SECTION

3" AIR RELEASE MANHOLE

SCALE: NONE

RESTRAINED JOINTS ARE TO BE MEGALUG GLANDS

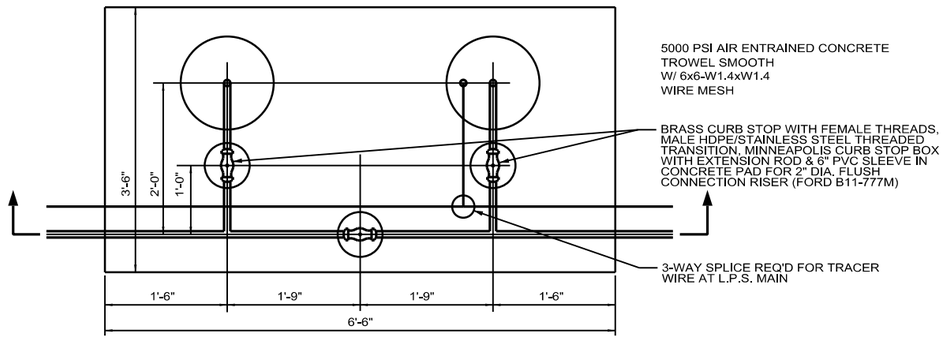


GENERAL NOTE:
THE SEAL SHALL EXTEND FROM THE CASTING TO THE CORBEL (CONE). SEAL EXTENSIONS SHALL BE USED AS REQUIRED.

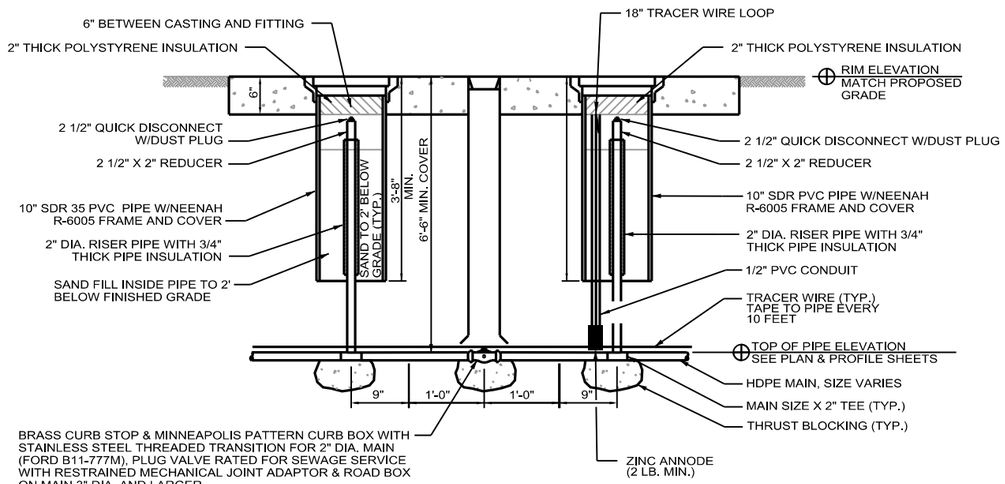
EXTERNAL RUBBER SLEEVE FRAME/CHIMNEY SEAL

MANHOLE WATERPROOFING DETAIL

SCALE: NONE



PLAN



SECTION

DOUBLE FLUSH CONNECTION

SCALE: NONE

REMOVE EXISTING FLUSH CONNECTION
REMOVE EXISTING AIR RELEASE MANHOLE
SALVAGE EXISTING AIR RELEASE VALVE
AND REINSTALL IN AR1 (INCIDENTAL)

INSTALL 6-INCH PLUG

REMOVE EXISTING FLUSH CONNECTION
INSTALL 3-INCH PLUG (2 LOCATIONS)

SEE L.P.S. EXTENSION SHEET

ALIGNMENT PI DATA

LOW PRESSURE SEWER RELOCATION

STA.	NORTHING:	EASTING:
496+00	164436.81	233188.03
502+56.02	164820.27	233720.31
504+62.49	164934.07	233892.59
506+39.13	164870.63	234057.44
510+00	165019.02	234386.39

PI Sta = 603+31.19
= STA. 32+71.65 'SB'
LT. 85.51'

PI Sta = 601+50.00
= STA. 28+73.49 'SB'
LT. 79.22'

EXISTING WETLANDS

PROPOSED R/W

SIREN COMMUNICATIONS, INC.

PROP. SLOPE INTERCEPT (TYP.)
(SEE ROADWAY PLANS)

WE ENERGIES

INSTALL 6-INCH PLUG

AR1

SF1

CONNECT TO EXISTING 6-INCH L.P.S.
10 LF - 6-INCH LOW PRESSURE SEWER (INCIDENTAL)

STH 35/STH 70

HOME RELOCATED
(BY OTHERS)

BOP Sta = 600+00.00
= STA. 28+53.10 'NB'
RT. 51.69'

INSTALL 3-INCH PLUG

DF1

STA. 504+42.3, 0' RT.
INSTALL 3-INCH x 3-INCH TEE

PI Sta = 504+62.49
= STA. 28+77.09 'NB'
RT. 48.91'

PI Sta = 502+56.02
= STA. 26+68.10 'NB'
RT. 75.16'

STA. 500+35, 0' RT.
CONNECT TO EXISTING 3-INCH L.P.S.

POLK BURNETT
ELECTRIC COOP

SIREN
COMMUNICATIONS

929 LF - 3-INCH HDPE L.P.S.
(CONNECTION - CONNECTION)

PI Sta = 506+39.13
= STA. 103+82.08 'C'
RT. 75.33'

SIREN SANITARY DISTRICT

INSTALL 3-INCH PLUG

STA. 509+64, 0' RT.
CONNECT TO EXISTING 3-INCH L.P.S.

EOP Sta = 510+00.00
= STA. 233+82.20 'EB'
RT. 65.57'

CLEAR & GRUB TO R/W (TYP.)

STH 70

STH 35

PROPOSED R/W

R/W

0 25 50 100

NOTES:

1. EXISTING L.P.S. LOCATION SHOWN IS APPROXIMATE.
CONTRACTOR SHALL FIELD LOCATE EXISTING L.P.S. LOCATION.

L.P.S. RELOCATION

AR1 AIR RELEASE MANHOLE
STA. 497+19.6, 149.5' LT.
RIM = 986.43
TOP 3" = 980.77 (S)
TOP 3" = 980.77 (N)

SF1 SINGLE FLUSH CONNECTION
STA. 497+28.5, 154.1' LT.
RIM = 985.87
TOP 3" = 980.77 (S)
TOP 3" = 980.77 (N)

DF1 DOUBLE FLUSH CONNECTION
STA. 501+50, 0' RT.
RIM = 990.06
TOP 3" = 982.96 (SW)
TOP 3" = 982.96 (NE)

PROPOSED 24" STORM SEWER

PROPOSED GROUND ABOVE LOW PRESSURE SEWER

MAINTAIN 7.5' MIN. COVER

STA 504+42.3
3" x 3" TEE

MAINTAIN NEGATIVE SLOPE
ON L.P.S. TO LOW POINT

TOP OF PROPOSED LOW PRESSURE SEWER

STA. 506+65
LOW POINT
TOP = 978.15

MAINTAIN POSITIVE SLOPE
ON L.P.S. TO CONNECTION

PROP. GROUND ABOVE L.P.S.
PROP. TOP OF L.P.S.

| | | |

SEE L.P.S. RELOCATION SHEET

SIREN COMMUNICATIONS

STA. 600+00, 0' RT.
INSTALL 3-INCH x 3-INCH TEE

STH 35/STH 70

Sta = 600+00.00

PI Sta = 601+50.00
= STA. 28+73.49 'SB'
LT. 79.22'

EXISTING WETLANDS

WE ENERGIES

SIREN COMMUNICATIONS, INC.

PI Sta = 607+63.12
= STA. 35+99.62 'SB'
LT. 84.97'

PROP. SLOPE INTERCEPT (TYP.)
(SEE ROADWAY PLANS)

PI Sta = 611+94.21
= STA. 41+11.09 'SB'
LT. 98.76'

PI Sta = 504+62.49

PROPOSED R/W

HOME RELOCATED
(BY OTHERS)

1400 LF - 3-INCH HDPE L.P.S.
(TEE - MATCHLINE)

PI Sta = 603+31.19
= STA. 32+71.83 'SB'
LT. 85.81'

SIREN SANITARY DISTRICT

POLK BURNETT ELECTRIC COOP

DF2

MATCH LINE STA. 614+00 SEE L.P.S. EXTENSION SHEET

SEE SHEET PP1

ALIGNMENT PI DATA

LOW PRESSURE SEWER EXTENSION

STA.	NORTHING=	EASTING=
600+00	164922.96	233875.77
601+50	165057.54	233809.51
603+31.19	165230.07	233864.87
607+63.12	165605.06	233650.53
611+94.21	166005.35	233490.52
625+54.99	167366.10	233500.34

0 25 50 100

L.P.S. EXTENSION

PROPOSED GROUND ABOVE LOW PRESSURE SEWER

PROPOSED 24" STORM SEWER

STA 600+00
3" x 3" TEE

MAINTAIN 7.5'
MIN. COVER

TOP OF PROPOSED LOW PRESSURE SEWER

MAINTAIN NEGATIVE SLOPE
ON L.P.S. TO LOW POINT

STA. 610+20
LOW POINT
TOP = 974.00

DOUBLE FLUSH CONNECTION
STA. 612+50, 0' RT.
RIM = 986.00
TOP 3" = 977.63 (SE)
TOP 3" = 977.63 (N)

MAINTAIN POSITIVE SLOPE
ON L.P.S. TO AR2

PROP. GROUND ABOVE L.P.S.
PROP. TOP OF L.P.S.

| | | |

MATCH LINE STA. 614+00 L.P.S. EXTENSION SHEET

600 LF - 3-INCH HDPE L.P.S.
(MATCH LINE - STA. 620+00)

20 LF - 1 1/2-INCH HDPE LOW PRESSURE SERVICE
INSTALL 3-INCH X 1 1/2-INCH TEE, CURB STOP & BOX

CLEAR & GRUB TO R/W (TYP.)

20 LF - 1 1/2-INCH HDPE LOW PRESSURE SERVICE
INSTALL 3-INCH X 1 1/2-INCH TEE, CURB STOP & BOX

STA. 625+40, 0' RT.
INSTALL 3-INCH FUSED PLUG

540 LF - 3-INCH HDPE L.P.S. HDD
(STA. 620+00 - STA. 625+40)

EOP Sta = 625+54.99
= STA. 54+49.92 'SB'
LT. 57.04'

PROP. SLOPE INTERCEPT (TYP.)
(SEE ROADWAY PLANS)

R/W

STH 35

CTH "K"

TOWER

SIGN

SEPTIC

CANOPY

GUY POLE

0 25 50 100

L.P.S. EXTENSION

AR2 AIR RELEASE MANHOLE
STA. 614+00, 0' RT.
RIM = 988.00
TOP 3" = 980.00 (S)
TOP 3" = 980.00 (N)

DF3 DOUBLE FLUSH CONNECTION
STA. 625+30, 0' RT.
RIM = 986.40
TOP 3" = 978.21 (S)
TOP 3" = 978.21 (N)

PROPOSED GROUND ABOVE LOW PRESSURE SEWER

MAINTAIN NEGATIVE SLOPE
ON L.P.S. TO LOW POINT

MAINTAIN 7.5'
MIN. COVER

MAINTAIN POSITIVE SLOPE
ON L.P.S. TO END

STA. 617+00
LOW POINT
TOP = 972.50

TOP OF PROPOSED LOW PRESSURE SEWER

INSTALL LOW PRESSURE SEWER HDD

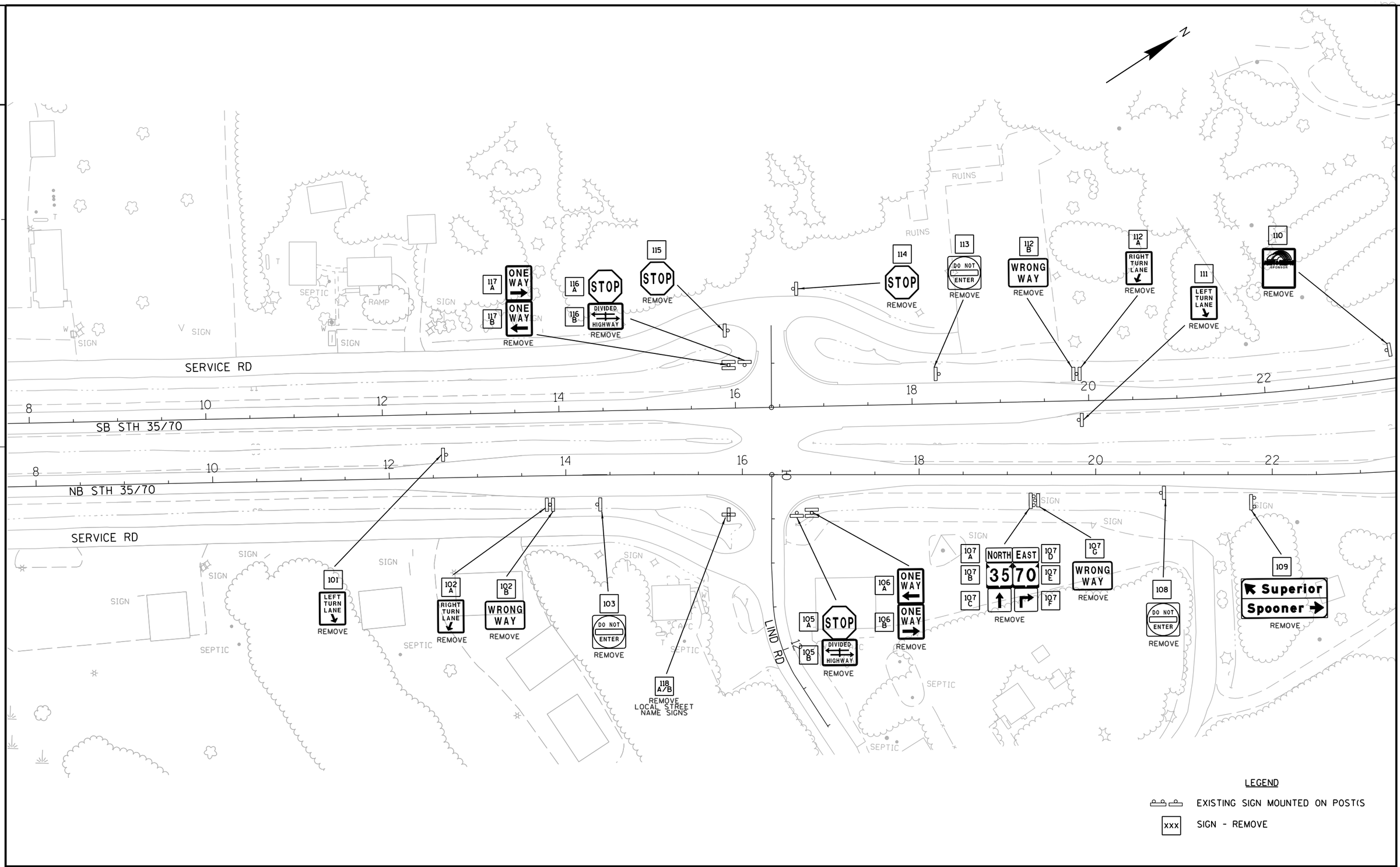
PROP. GROUND ABOVE L.P.S.
PROPOSED TOP OF L.P.S.

990 985 980 975 970 965 960

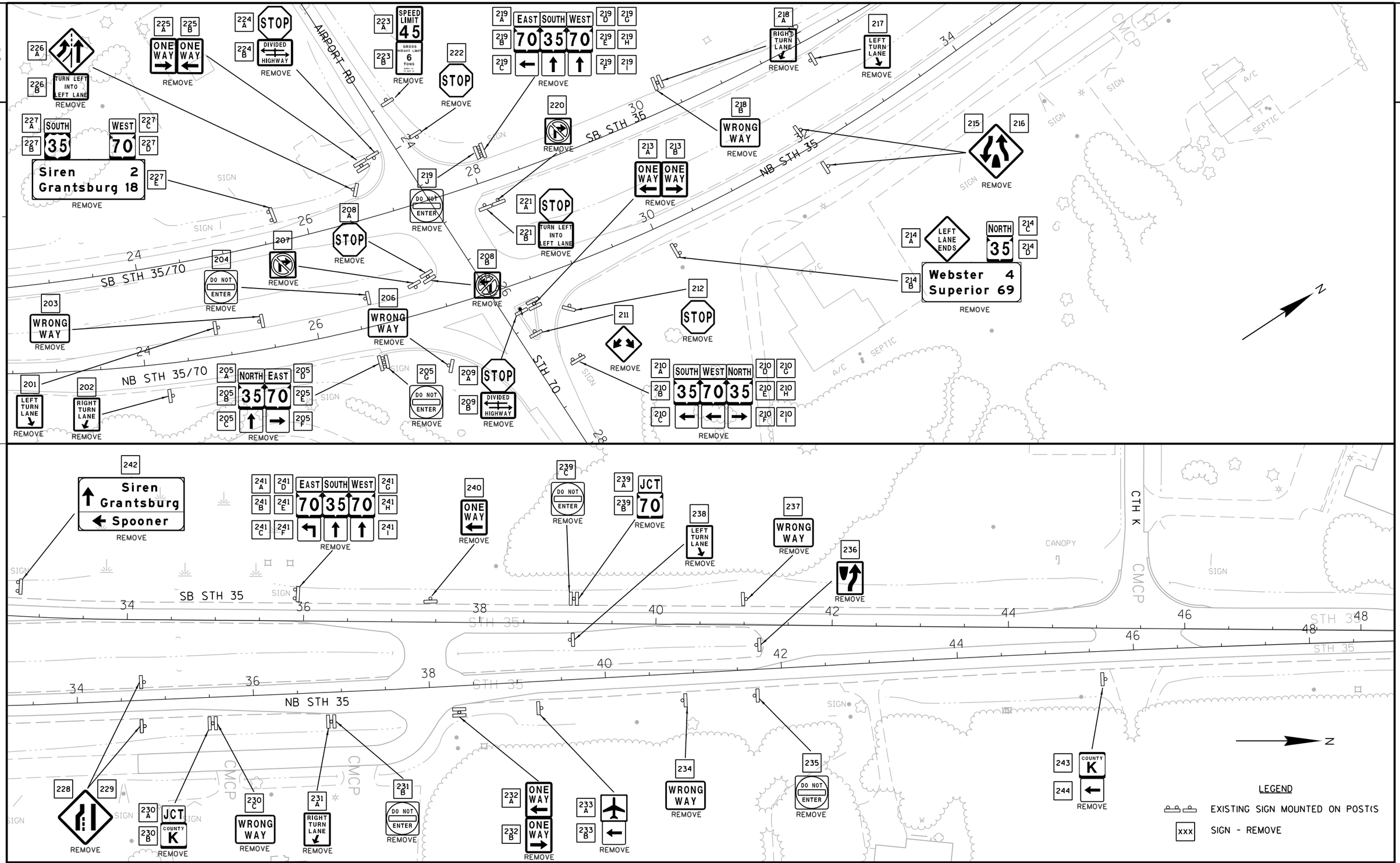
614+00 +25 +50 +75 615+00 +25 +50 +75 616+00 +25 +50 +75 617+00 +25 +50 +75 618+00 +25 +50 +75 619+00 +25 +50 +75 620+00 +25 +50 +75 621+00 +25 +50 +75 622+00 +25 +50 +75 623+00 +25 +50 +75 624+00 +25 +50 +75 625+00 +25 +50

PROJECT NO: 8010-01-78	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - LOW PRESSURE SEWER EXTENSION	SHEET 49	E

PP3.dgn 4/23/2014 3:42:13 PM drammer



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EXISTING SIGNS	SHEET 50	E



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EXISTING SIGNS	SHEET 51	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\023202_ps.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

2

2

N

28 30 32 34 36 38 40 42

STH 70 STH 70 STH 70

309
Siren
Grantsburg
Superior
REMOVE

308 A | SOUTH | WEST | NORTH | 308 D | 308 G
308 B | 35 | 70 | 35 | 308 E | 308 H
308 C | 308 F | 308 I
REMOVE

307
STOP AHEAD
REMOVE

306 A | JCT
306 B | 35
REMOVE

301 B
DO NOT ENTER
REMOVE

301 A
YIELD
REMOVE

310 A/B
REMOVE
LOCAL STREET NAME SIGNS

302 A
302 B
302 C
EAST
70
Hertel 10
Spooner 24
REMOVE

303
REMOVE

304 A
CHECK TURN SIGNAL
REMOVE

304 B
NO PASSING ZONE
REMOVE

305 A
SPEED LIMIT 55
REMOVE

305 B
STOP AHEAD
REMOVE

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

xxx SIGN - REMOVE

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	EXISTING SIGNS	SHEET 52	E

2

N

SERVICE RD

SB STH 35/70

NB STH 35/70

SERVICE RD

LIND RD

MATCHLINE STA. 21 NB

RUINS

RAMP

SEPTIC

A/C

SIGN

4 / 406 B — DO NOT ENTER — R5-1 — 36" X 36"

3B / 421 — RIGHT TURN ONLY — R3-53R — 24" X 30"

2 / 420 A — STOP — R1-1 — 30" X 30"

420 B — TRAFFIC FROM RIGHT DOES NOT STOP — W4-4AR — 42" X 15"

3B / 419 A — ONE WAY — R6-1R — 36" X 12"

3B / 419 B — STOP — R1-1 — 36" X 36"

3B / 418 — W1-7 — 48" X 24"

2 / 417 A — STOP — R1-1 — 30" X 30"

417 B — TRAFFIC FROM LEFT DOES NOT STOP — W4-4AL — 42" X 15"

4 / 416 A — ONE WAY — R6-2R — 30" X 36"

3B / 415 — DO NOT ENTER — R5-1 — 36" X 36"

4 / 414 — W12-1D — 30" X 30" 2' MOUNTING

2 / 413 A — W1-1L — 36" X 36"

413 B — 30 MPH — W13-1 — 24" X 24"

3B / 412 — WRONG WAY — R5-1A — 42" X 30"

4 / 401 — BEGIN LEFT TURN LANE — R3-20L — 36" X 54"

2 / 402 — WRONG WAY — R5-1A — 42" X 30"

4 / 403 — W12-1D — 30" X 30" 2' MOUNTING

2 / 409 — DO NOT ENTER — R5-1 — 36" X 36"

4 / 406 A — ONE WAY — R6-2R — 30" X 36"

4 / 416 B — DO NOT ENTER — R5-1 — 36" X 36"

2 / 407 A — ONE WAY — R6-1R — 36" X 12"

407 B — STOP — R1-1 — 36" X 36"

2 / 408 — RIGHT TURN ONLY — R3-53R — 24" X 30"

2 / 404 A — 404 B — W2-6 — 36" X 36"

404 B — 15 MPH — W13-1 — 24" X 24"

2 / 405 A — 405 B

2 / 410 — EAST 70 — NORTH 35 — D1-62 — 72" X 84"

7'SB' 8'SB' 9'SB' 10'SB' 11'SB' 12'SB' 13'SB' 14'SB' 15'SB' 16'SB' 17'SB' 18'SB' 19'SB' 20'SB' 21'SB'

7'NB' 8'NB' 9'NB' 10'NB' 11'NB' 12'NB' 13'NB' 14'NB' 15'NB' 16'NB' 17'NB' 18'NB' 19'NB' 20'NB' 21'NB'

300'A' 301'A' 302'A' 303'A' 304'A' 305'A' 306'A'

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON REMOVABLE TUBULAR STEEL POST(S), TOP OF BASE TO BE FLUSH WITH SURROUNDING GRADE
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- TWO 18" X 18" FLAGS, INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE
- OVERHEAD SIGN SUPPORT, FULL SPAN
- (XXX) SIGN - NEW
- (XX) RECOMMENDED STAGE OF PLACEMENT (PLACE BY END OF STAGE)

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PERMANENT SIGNS	SHEET	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\023205_ps.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON REMOVABLE TUBULAR STEEL POST(S), TOP OF BASE TO BE FLUSH WITH SURROUNDING GRADE
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- TWO 18" X 18" FLAGS, INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE
- OVERHEAD SIGN SUPPORT, FULL SPAN
- XXX SIGN - NEW
- XX RECOMMENDED STAGE OF PLACEMENT (PLACE BY END OF STAGE)

N

518 SPEED LIMIT 45 — R2-1, 24" X 30"

519 A / 519 B — W1-1R, 36" X 36" — 30 MPH — W13-1, 24" X 24"

517 — W1-6, 48" X 24"

AIRPORT RD

SB STH 35

NB STH 35

524 A / 524 B — W11-6, 36" X 36", AHEAD — W16-9P, 30" X 18"

525 A / 525 B — W11-6, 36" X 36", AHEAD — W16-9P, 30" X 18"

510 — D2-1, 72" X 30", SOUTH 35 WEST 70

513 SPEED LIMIT 55 — R2-1, 36" X 48"

512 — J4-2, 72" X 54", SOUTH 35 WEST 70

503 — R3-4B, 36" X 48", EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

511 / 520 — W4-3R, 36" X 36"

516 — W1-6, 48" X 24"

514 — R3-20L, 36" X 54", BEGIN LEFT TURN LANE

515 — D2-2, 84" X 24", Siren 2, Grantsburg 18

SB STH 35/70

NB STH 35/70

MATCHLINE STA. 21 NB

501 A / S-07-0002 / 501 B

E6-54L, 96" X 90", 35 NORTH, Superior, ONLY

E6-54, 84" X 90", 70 EAST, Spooner

521 A / 521 B — W11-6, 36" X 36", AHEAD — W16-9P, 30" X 18"

411 — W3-2, 36" X 36"

502 — R3-4B, 36" X 48", EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

504 / 505 — R3-8JJ, 36" X 30", ONLY

522 A / 522 B — W11-6, 36" X 36" — W16-7L, 30" X 18"

523 A / 523 B

507 A / 507 B — R1-2, 48" X 42", 7.25' MOUNTING — R6-2R, 30" X 36", ONE WAY

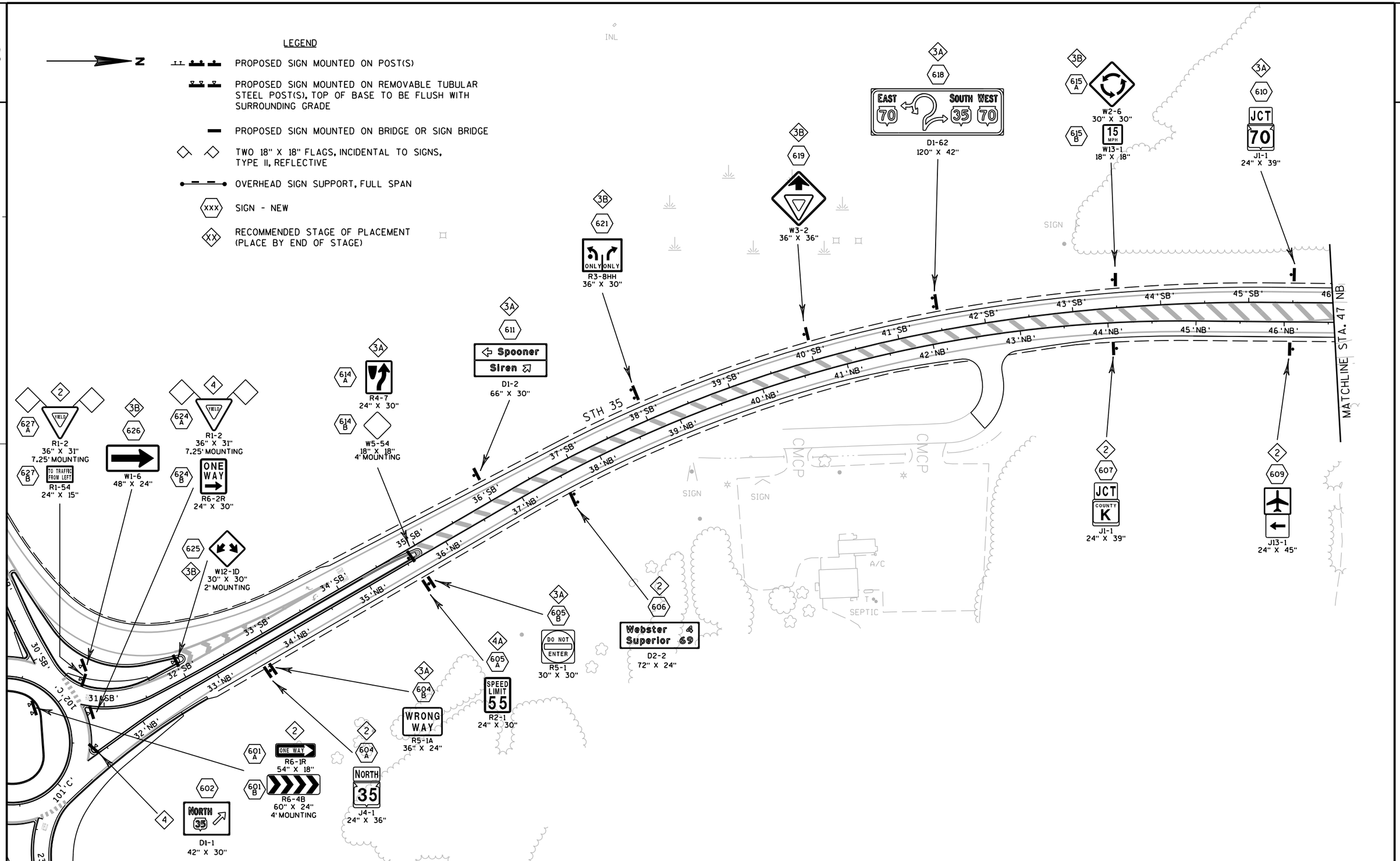
508 A / 508 B — R1-2, 48" X 42", 7.25' MOUNTING — R1-54, 24" X 15", TO TRAFFIC FROM LEFT

509 A / 509 B — R6-1R, 54" X 18", ONE WAY — R6-4B, 60" X 24", 4' MOUNTING

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PERMANENT SIGNS	SHEET 54	E

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON REMOVABLE TUBULAR STEEL POST(S), TOP OF BASE TO BE FLUSH WITH SURROUNDING GRADE
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- TWO 18" X 18" FLAGS, INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE
- OVERHEAD SIGN SUPPORT, FULL SPAN
- (XXX) SIGN - NEW
- (XX) RECOMMENDED STAGE OF PLACEMENT (PLACE BY END OF STAGE)



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PERMANENT SIGNS	SHEET 55	E

2

N

CTH K

CTH "K"

CMCP

SIGN

A/C

W

TOWER

SIGN

W

A/C

SEPTIC

SEPTIC

CANOPY

SIGN

STH 35

STH 35

STH 35

STH

MATCHLINE STA. 47 NB

47'SB' 48'SB' 49'SB' 50'SB' 51'SB' 52'SB' 53'SB' 54'SB' 55'SB' 56'SB' 57'SB' 58'SB' 59'SB' 60'SB'

47'NB' 48'NB' 49'NB' 50'NB' 51'NB' 52'NB' 53'NB' 54'NB' 55'NB' 56'NB' 57'NB' 58'NB' 59'NB' 60'NB' 61'NB'

SIGN

W SIGN

SIGN SEPTIC

4A
700
WRONG WAY
R5-1A
36" X 24"

4A
701 A
COUNTY K
J13-1
24" X 45"

4A
701 B
DO NOT ENTER
R5-1
30" X 30"

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON REMOVABLE TUBULAR STEEL POST(S), TOP OF BASE TO BE FLUSH WITH SURROUNDING GRADE

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

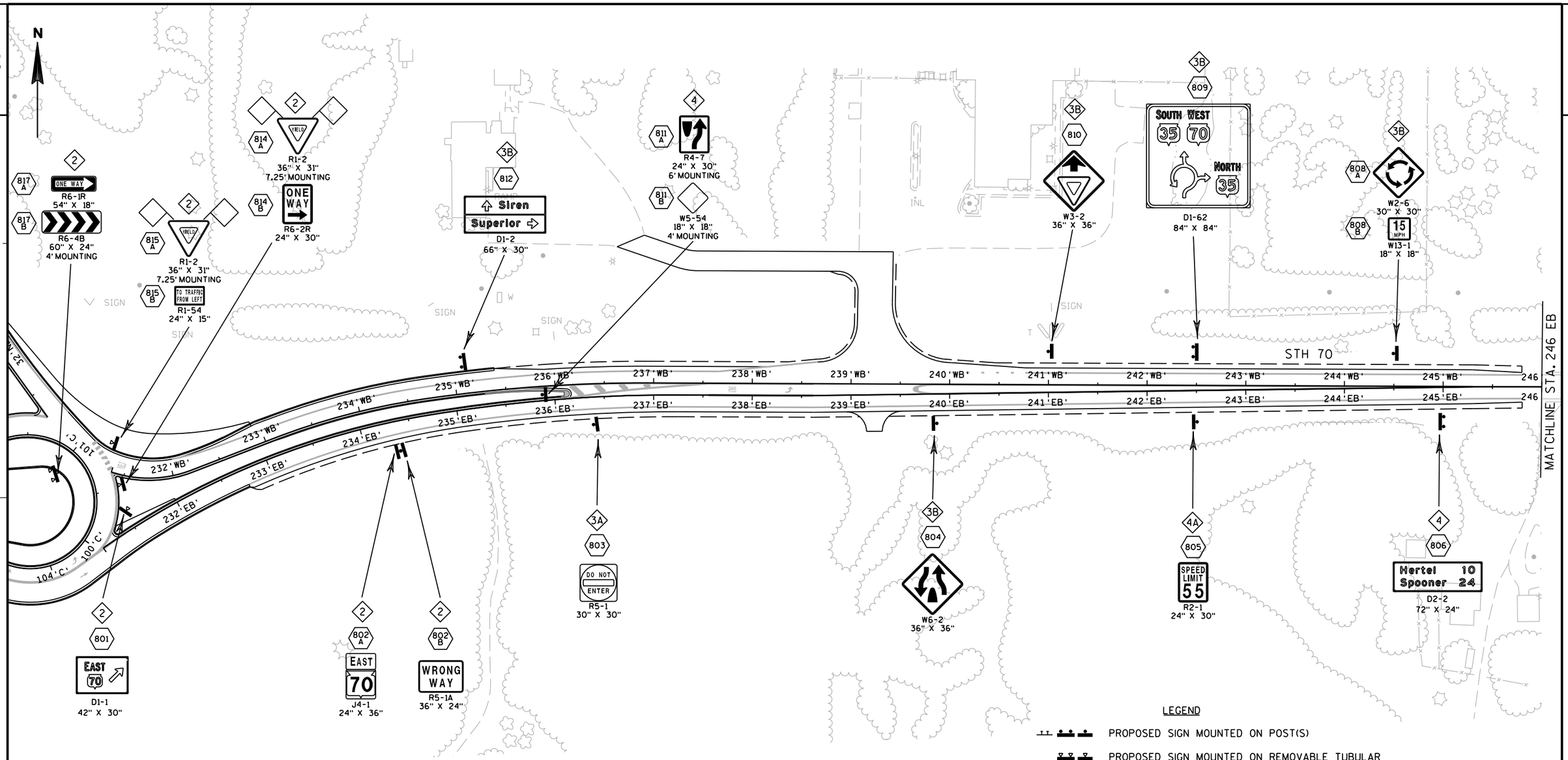
TWO 18" X 18" FLAGS, INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE

OVERHEAD SIGN SUPPORT, FULL SPAN

XXX SIGN - NEW

XX RECOMMENDED STAGE OF PLACEMENT (PLACE BY END OF STAGE)

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PERMANENT SIGNS	SHEET 56	E



LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON REMOVABLE TUBULAR STEEL POST(S), TOP OF BASE TO BE FLUSH WITH SURROUNDING GRADE
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- TWO 18" X 18" FLAGS, INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE
- OVERHEAD SIGN SUPPORT, FULL SPAN
- XXX SIGN - NEW
- XX RECOMMENDED STAGE OF PLACEMENT (PLACE BY END OF STAGE)

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PERMANENT SIGNS	SHEET 57	E

2

N

Compiled By: Ayres Associates
Date: 10/2008
Photography Date: 05/08/08

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON REMOVABLE TUBULAR STEEL POST(S), TOP OF BASE TO BE FLUSH WITH SURROUNDING GRADE
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- TWO 18" X 18" FLAGS, INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE
- OVERHEAD SIGN SUPPORT, FULL SPAN
- (xxx) SIGN - NEW
- (XX) RECOMMENDED STAGE OF PLACEMENT (PLACE BY END OF STAGE)

GRUPE LN.

3B
904
JCT
35
J1-1
24" X 39"

3B
903
W6-1
36" X 36"

MATCHLINE STA. 246 EB

WB' 247'WB' 248'WB' 249'WB' 250'WB' 251'WB' 252'WB' 253'WB' 254'WB' 255'WB' 256'WB' 257'WB' 258'WB'

EB' 247'EB' 248'EB' 249'EB' 250'EB' 251'EB' 252'EB' 253'EB' 254'EB' 255'EB' 256'EB' 257'EB' 258'EB'

STH 70

STH 70

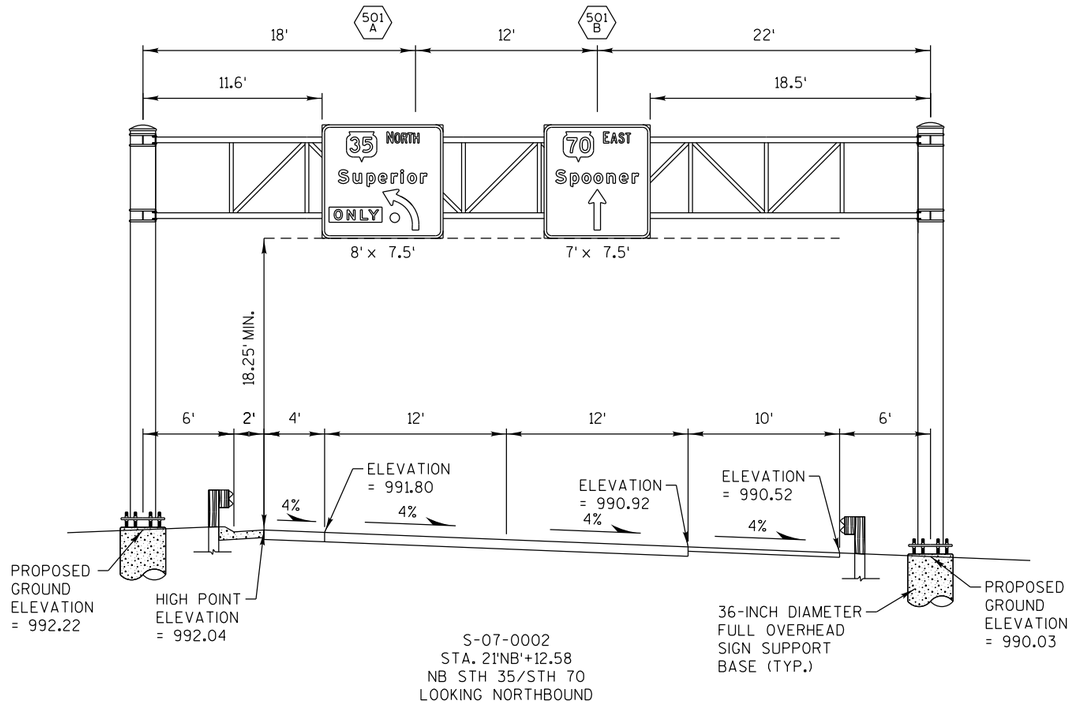
2
901
W6-3
36" X 36"

2
902
NO PASSING ZONE
W14-3
48" X 36"

CLAY RD.

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PERMANENT SIGNS	SHEET 58	E

2



S-07-0002
STA. 21'NB'+12.58
NB STH 35/STH 70
LOOKING NORTHBOUND

GENERAL NOTES

1) DRAWINGS NOT TO SCALE

2) DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF, AND SUPPLEMENTAL TO THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS."

3) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT".

4) SIZE THE ANCHOR BOLT/TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.

5) PROVIDE DESIGN CALCULATIONS.

6) DESIGN WIND VELOCITIES SHALL BE PER WISDOT SPECS.

7) SIGNS OR BLANKS SHALL BE INSTALLED ON THE OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION. BLANKS, IF USED, SHALL BE OF THE SAME SIZE AND LOCATION AS PERMANENT SIGNS.

8) MINIMUM OF SIX (6) ANCHOR RODS SHALL BE USED PER STANDARD DETAIL DRAWING

CONDUIT RIGID NONMETALLIC, 2" UNLESS NOTED
LIGHTING UNIT
LIGHTING CONTROL CABINET (LCC)
PULL BOXES STEEL, 24" X 42" (LPB)
E — — CONDUIT STUB FOR FUTURE USE

STATION, OFFSET — LIGHT NUMBER
III-A-12-5-1-(L-A3)
POLE NUMBER
CIRCUIT NUMBER
BASE TYPE
ARM LENGTH IN FEET
LED FIXTURE TYPE
DISTRIBUTION TYPE

N

STA 31SB+02, 34.3'LT
III-A-12-5-1-(L-A9)

STA 31NB+43, 31.1'RT
III-A-12-5-1-(L-A7)

STA 29SB+95, 26.2'LT
III-A-12-5-1-(L-A10)

STA 231WB+58, 6.8'RT
III-A-12-5-1-(L-A6)

STA 27NB+68, 11.3'LT
III-A-12-5-1-(L-A1)

STA 29NB+32, 38.0'RT
III-A-12-5-1-(L-A2)

STA 231EB+25, 26.1'RT
III-A-12-5-1-(L-A4)

STA 103C+80, 41.4'RT
III-A-12-5-1-(L-A3)

LPB-1 LPB-2 LPB-3 LPB-4 LPB-5 LPB-6 LPB-9

6'SD' 5'SD' 4'SD'
32'NB' 31'SB' 30'SB' 29'SB' 29'NB' 28'SB' 28'NB' 27'SB' 27'NB' 26'SB' 26'NB'
102'C' 103'C' 101'C' 100'C' 104'C'
231WB' 231EB'

STH 35 / 70

SCALE, FEET 0 20 40

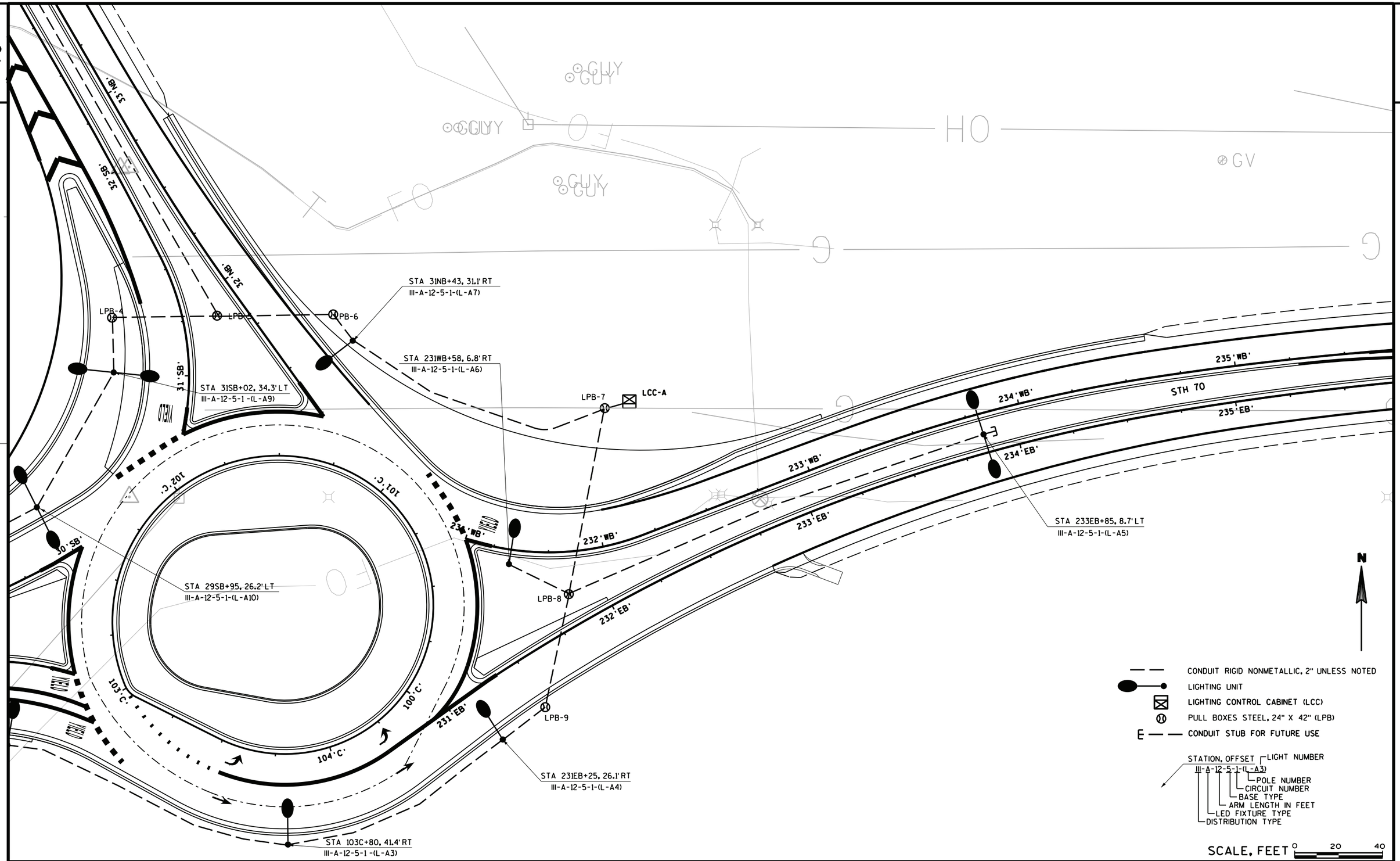
WISCONSIN
MICHAEL C. STOFFEL
E-31143
BLOOMER, WI
PROFESSIONAL ENGINEER

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	LIGHTING PLAN	SHEET 60 E

FILE NAME : T:±410585±Lighting±41058500_lp01.dgn PLOT DATE : 4/28/2014 PLOT BY : lambertb PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	LIGHTING PLAN	SHEET	E

FILE NAME : T:±410585±Lighting±41058500_lp02.dgn PLOT DATE : 4/28/2014 PLOT BY : lambertb PLOT NAME : PLOT SCALE : 1:40

SCALE, FEET 0 20 40

N

CONDUIT RIGID NONMETALLIC, 2" UNLESS NOTED

LIGHTING UNIT

LIGHTING CONTROL CABINET (LCC)

PULL BOXES STEEL, 24" X 42" (LPB)

E CONDUIT STUB FOR FUTURE USE

STATION, OFFSET — LIGHT NUMBER
III-A-12-5-1-(L-A3)
- POLE NUMBER
- CIRCUIT NUMBER
- BASE TYPE
- ARM LENGTH IN FEET
- LED FIXTURE TYPE
- DISTRIBUTION TYPE

STH 35

8'SD'

7'SD'

9'SD'

35'NB'

34'NB'

34'SB'

33'NB'

33'SB'

32'SB'

32'NB'

31'SB'

102'C'

101'C'

233'WB'

LED

STA 33NB+61, 6.5'LT
III-A-12-5-1-(L-A8)

STA 31SB+02, 34.3'LT
III-A-12-5-1-(L-A9)

STA 29SB+95, 26.2'LT
III-A-12-5-1-(L-A10)

STA 31NB+43, 31.1'RT
III-A-12-5-1-(L-A7)

LPB-4 LPB-5 LPB-6 LPB-10 LPB-11

LCC-A

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	LIGHTING PLAN	SHEET E

FILE NAME : T:±410585±Lighting±41058500_lp03.dgn PLOT DATE : 4/28/2014 PLOT BY : lambertb PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

GENERAL NOTES

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

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

CIRCUIT BREAKERS AND CONTACTORS SHALL BE SIZED BY ELECTRICAL DESIGNER. THE ELECTRICAL DESIGNER MAY ADJUST THE QUANTITIY OF CIRCUIT BREAKERS AND CONTACTORS BEYOND THE MINIMUM SHOWN IN SCHEMATIC.

THE ELECTRICAL DESIGNER SHALL PREPARE A NEW SCHEMATIC DRAWING INDICATING ANY DEVIATIONS FROM THE SCHEMATIC OUTLINED IN THIS DETAIL. A SPECIAL PROVISION SHALL BE PREPARED DETAILING THE MODIFIED CABINET.

WIDTH OF THE CONTROL CABINET IS DEPENDENT UPON THE SPECIFIED QUANTITY OFCIRCUIT BREAKERS, CONTACTORS OR OTHER ADDITIONAL EQUIPMENT. CONSULT FABRICATOR FOR DETERMINATION OF FINAL WIDTH BASED UPON SPECIFIED EQUIPMENT.

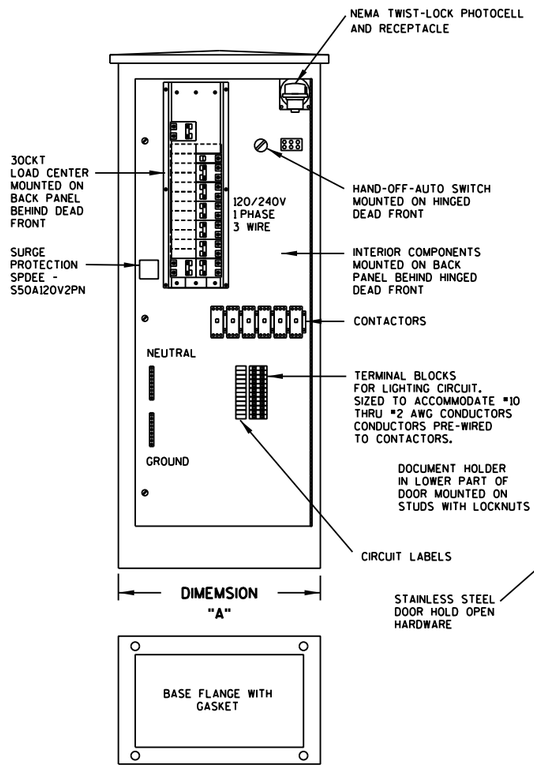
ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURLY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

FRONT INTERIOR ELEVATION



SIDE VIEW

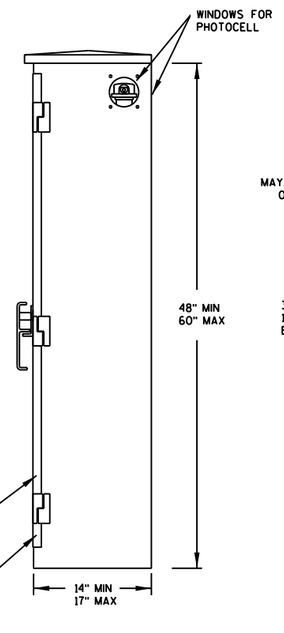
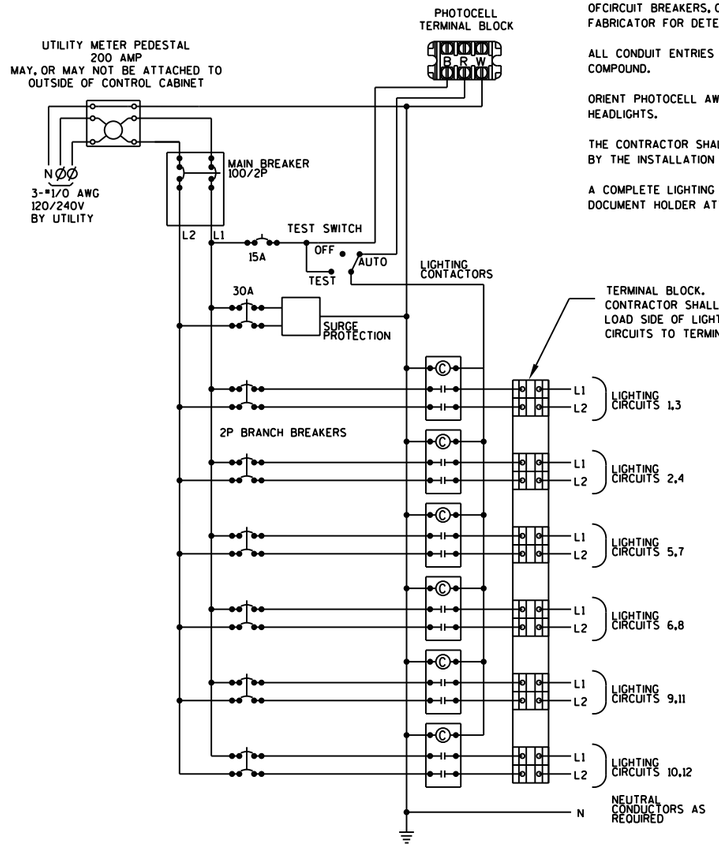


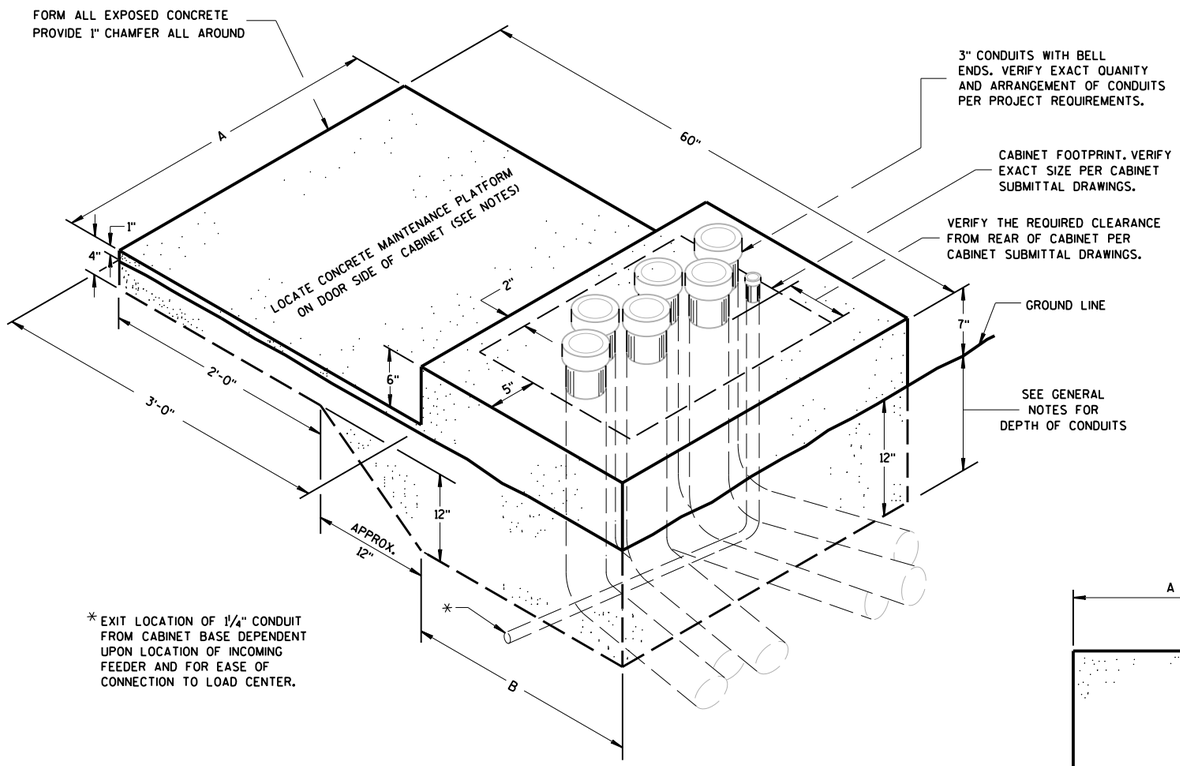
TABLE OF DIMENSIONS (INCHES)

CABINET WIDTH	DIMEMSION "A"
24"	24"

CONTROL CABINET SCHEMATIC



LIGHTING CONTROL CABINET

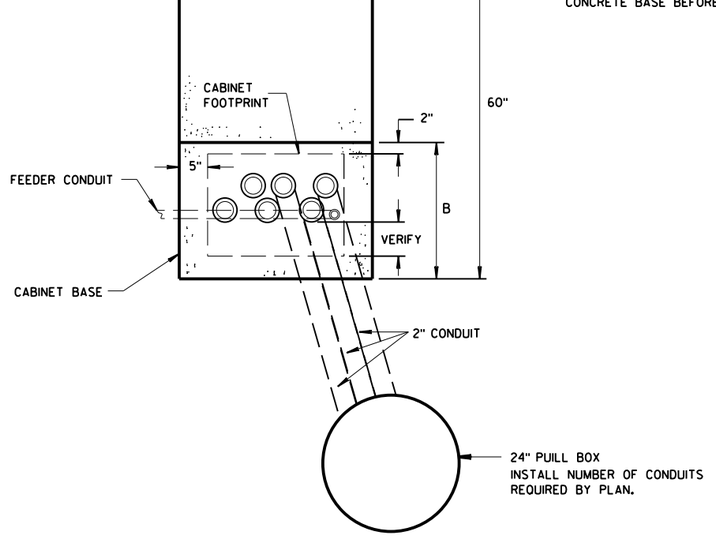


ISOMETRIC VIEW

CONCRETE LIGHTING CONTROL CABINET BASE

(C.Y. CONCRETE = APPROX. 0.4)

CABINET WIDTH	DIMENSIONS	
	A	B
24"	34"	24"



PLAN VIEW

CONCRETE LIGHTING CONTROL CABINET BASE

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

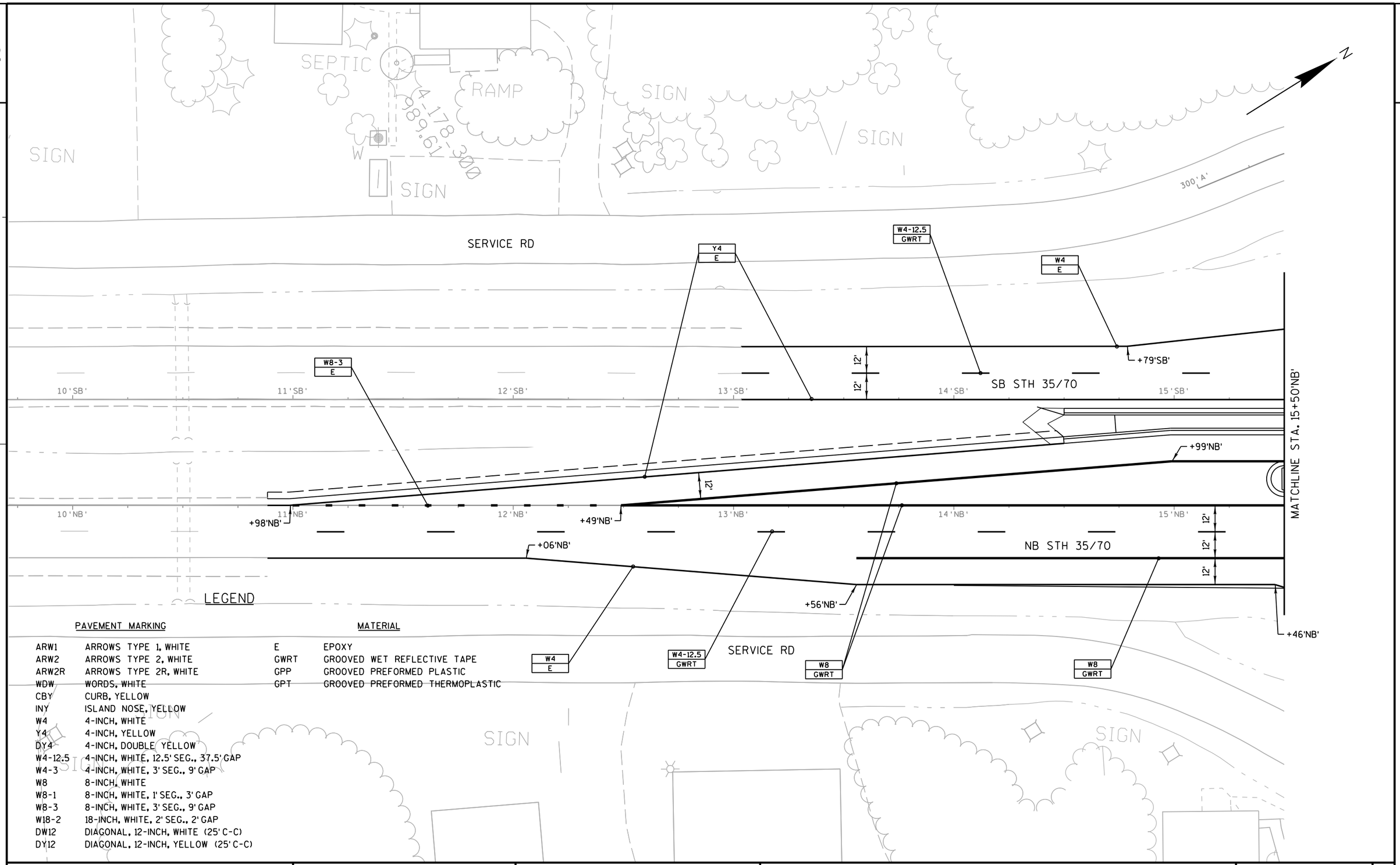
ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

2

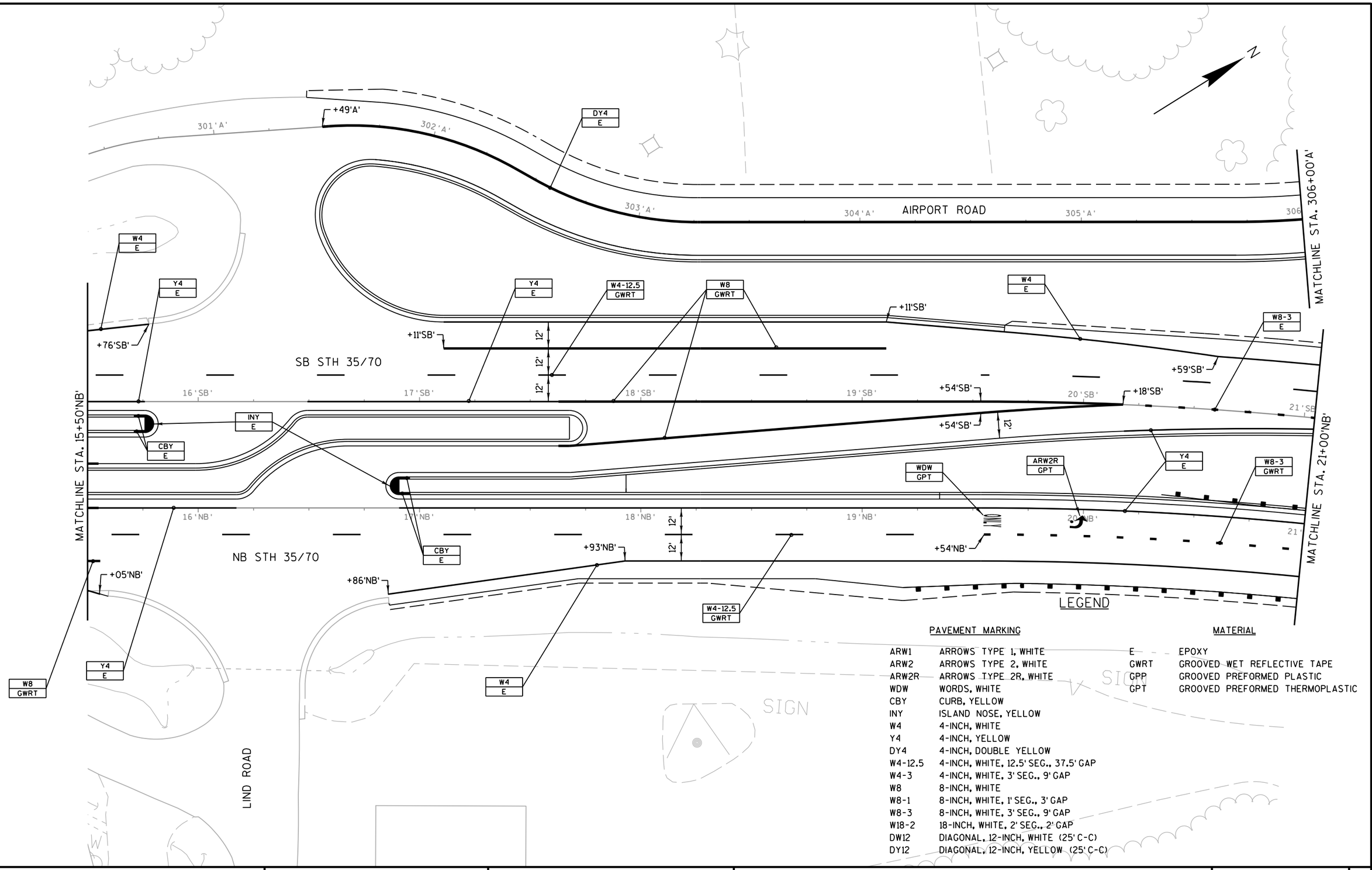


LEGEND

PAVEMENT MARKING		MATERIAL	
ARW1	ARROWS TYPE 1, WHITE	E	EPOXY
ARW2	ARROWS TYPE 2, WHITE	GWRT	GROOVED WET REFLECTIVE TAPE
ARW2R	ARROWS TYPE 2R, WHITE	GPP	GROOVED PREFORMED PLASTIC
WDW	WORDS, WHITE	GPT	GROOVED PREFORMED THERMOPLASTIC
CBY	CURB, YELLOW		
INY	ISLAND NOSE, YELLOW		
W4	4-INCH, WHITE		
Y4	4-INCH, YELLOW		
DY4	4-INCH, DOUBLE YELLOW		
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP		
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP		
W8	8-INCH, WHITE		
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP		
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP		
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP		
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)		
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)		

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVEMENT MARKING	SHEET 65	E

2

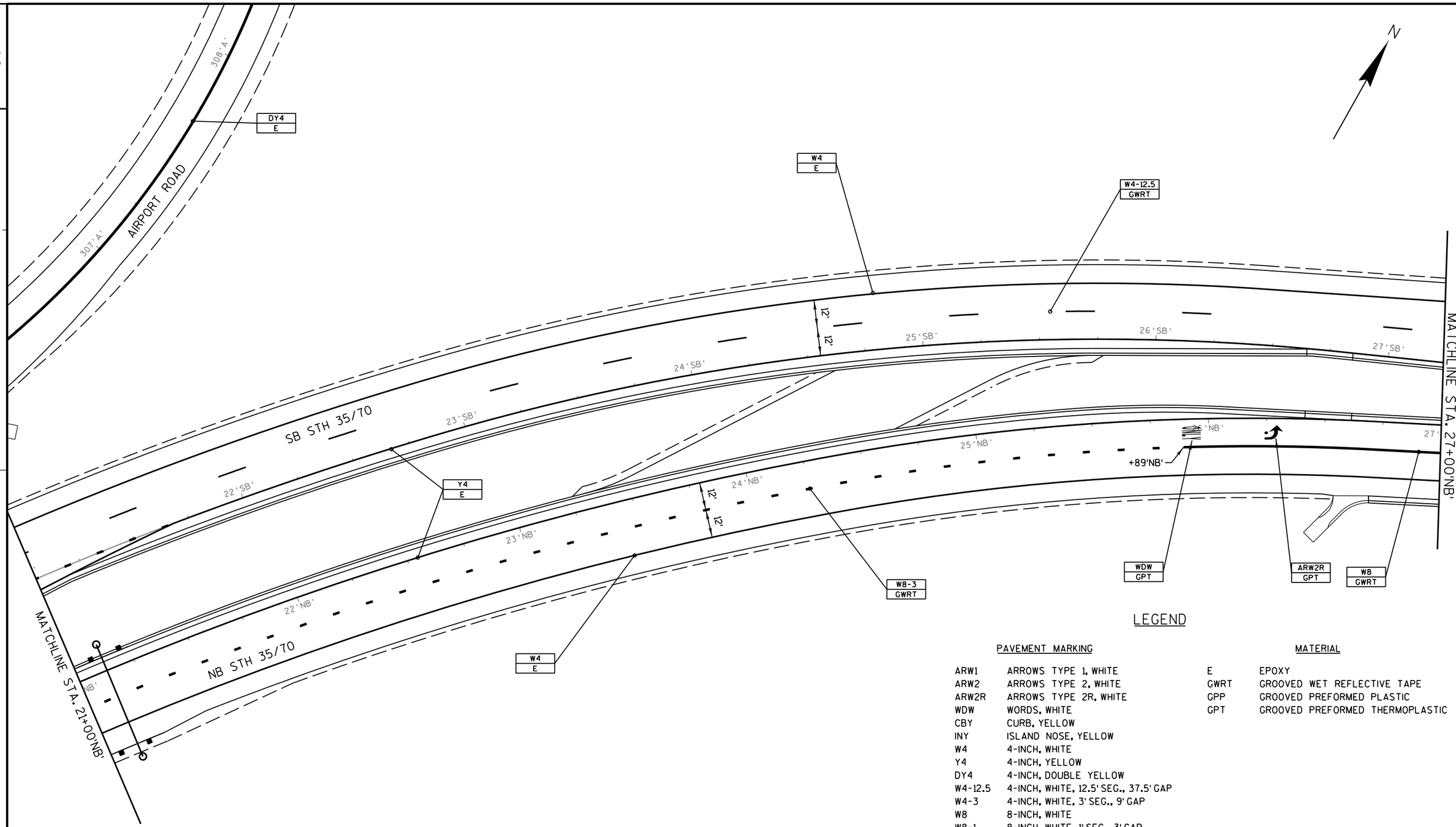


LEGEND

PAVEMENT MARKING		MATERIAL	
ARW1	ARROWS TYPE 1, WHITE	E	EPOXY
ARW2	ARROWS TYPE 2, WHITE	GWRT	GROOVED WET REFLECTIVE TAPE
ARW2R	ARROWS TYPE 2R, WHITE	GPP	GROOVED PREFORMED PLASTIC
WDW	WORDS, WHITE	GPT	GROOVED PREFORMED THERMOPLASTIC
CBY	CURB, YELLOW		
INY	ISLAND NOSE, YELLOW		
W4	4-INCH, WHITE		
Y4	4-INCH, YELLOW		
DY4	4-INCH, DOUBLE YELLOW		
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP		
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP		
W8	8-INCH, WHITE		
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP		
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP		
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP		
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)		
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)		

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVEMENT MARKING	SHEET 66	E

2



LEGEND

PAVEMENT MARKING

ARW1	ARROWS TYPE 1, WHITE
ARW2	ARROWS TYPE 2, WHITE
ARW2R	ARROWS TYPE 2R, WHITE
WDW	WORDS, WHITE
CBY	CURB, YELLOW
INY	ISLAND NOSE, YELLOW
W4	4-INCH, WHITE
Y4	4-INCH, YELLOW
DY4	4-INCH, DOUBLE YELLOW
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP
W8	8-INCH, WHITE
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)

MATERIAL

E	EPOXY
GWRT	GROOVED WET REFLECTIVE TAPE
GPP	GROOVED PREFORMED PLASTIC
GPT	GROOVED PREFORMED THERMOPLASTIC

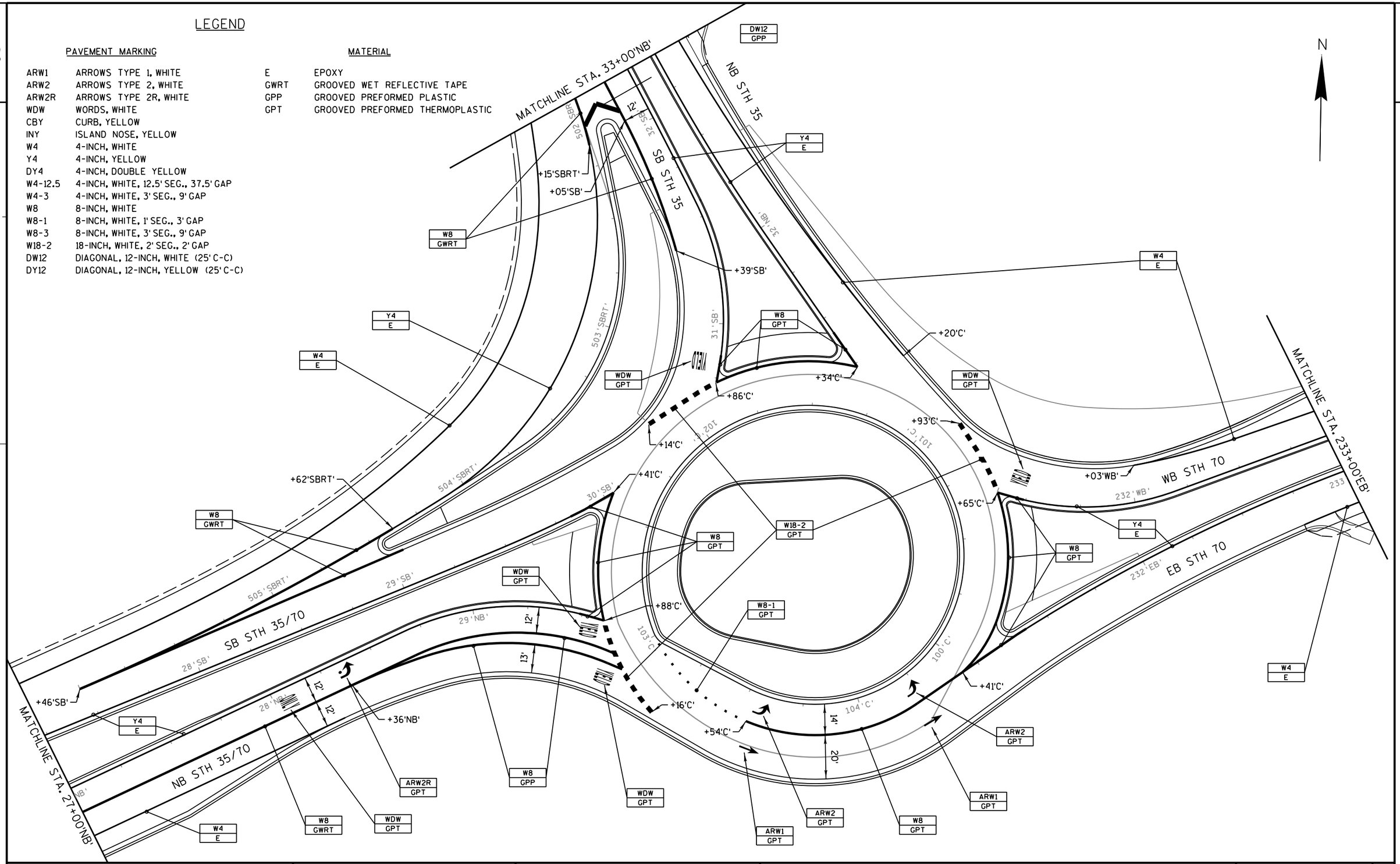
LEGEND

PAVEMENT MARKING

ARW1	ARROWS TYPE 1, WHITE
ARW2	ARROWS TYPE 2, WHITE
ARW2R	ARROWS TYPE 2R, WHITE
WDW	WORDS, WHITE
CBY	CURB, YELLOW
INY	ISLAND NOSE, YELLOW
W4	4-INCH, WHITE
Y4	4-INCH, YELLOW
DY4	4-INCH, DOUBLE YELLOW
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP
W8	8-INCH, WHITE
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)

MATERIAL

E	EPOXY
GWRT	GROOVED WET REFLECTIVE TAPE
GPP	GROOVED PREFORMED PLASTIC
GPT	GROOVED PREFORMED THERMOPLASTIC

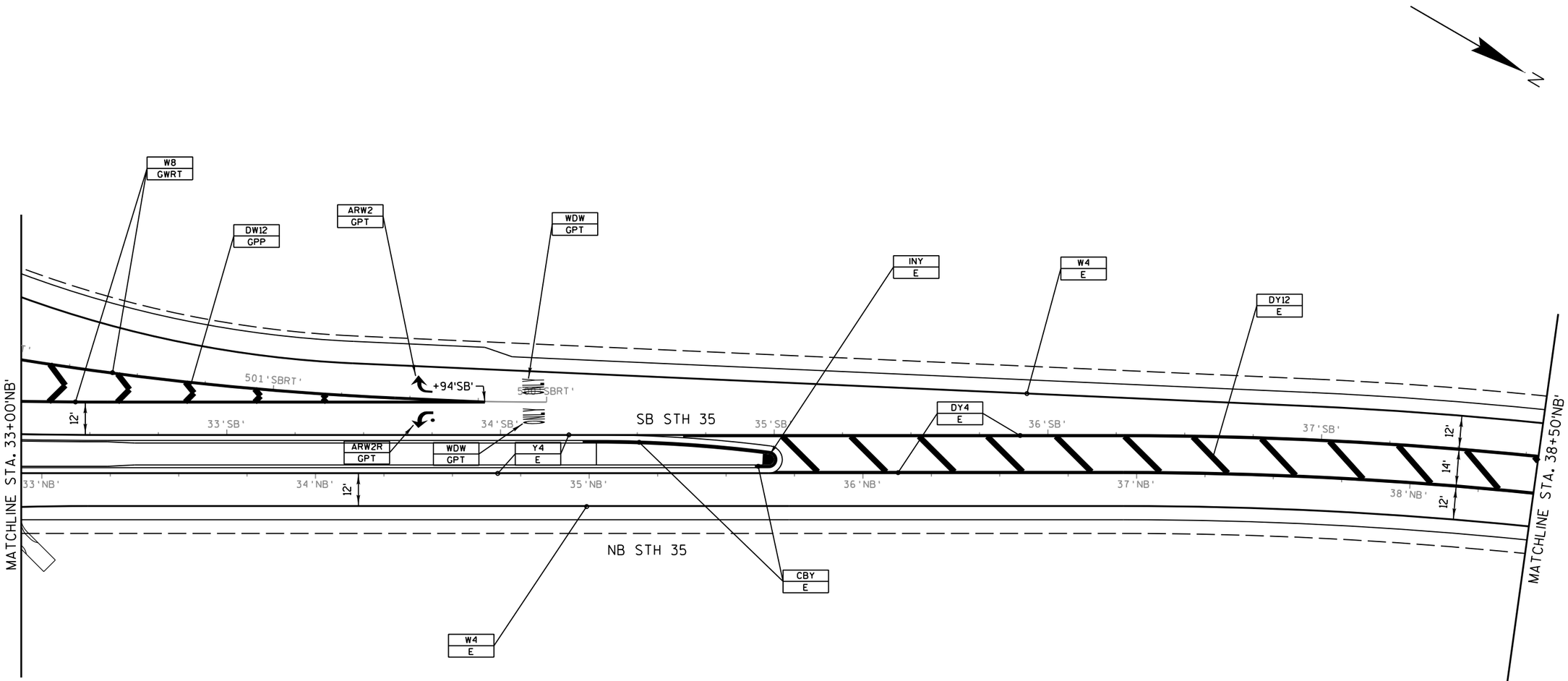


PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVEMENT MARKING	SHEET 68	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\024504_pm.dgn PLOT DATE : 4/29/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42

2



LEGEND

PAVEMENT MARKING

ARW1	ARROWS TYPE 1, WHITE
ARW2	ARROWS TYPE 2, WHITE
ARW2R	ARROWS TYPE 2R, WHITE
WDW	WORDS, WHITE
CBY	CURB, YELLOW
INY	ISLAND NOSE, YELLOW
W4	4-INCH, WHITE
Y4	4-INCH, YELLOW
DY4	4-INCH, DOUBLE YELLOW
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP
W8	8-INCH, WHITE
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)

MATERIAL

E	EPOXY
GWRT	GROOVED WET REFLECTIVE TAPE
GPP	GROOVED PREFORMED PLASTIC
GPT	GROOVED PREFORMED THERMOPLASTIC

2

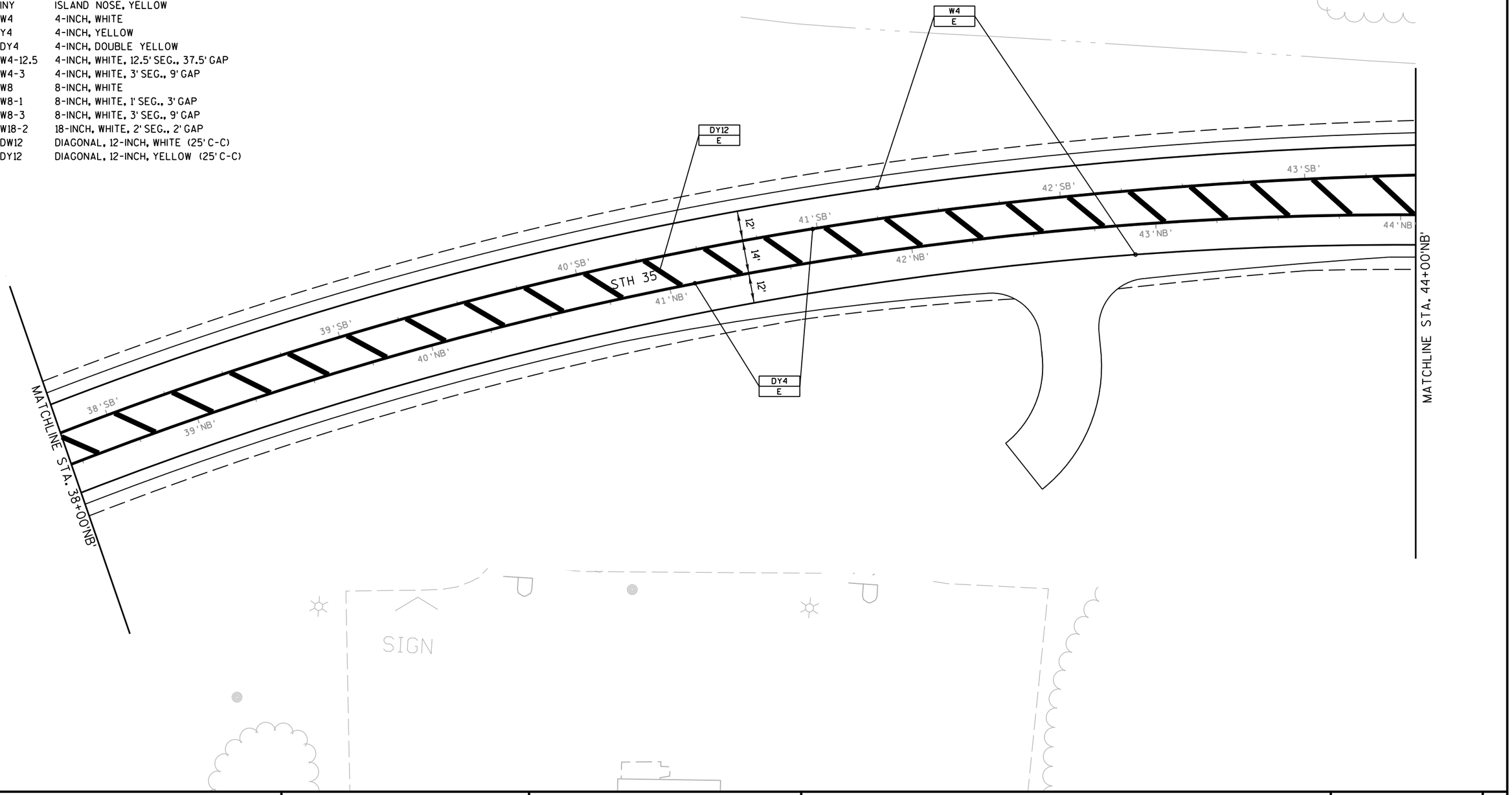
LEGEND

PAVEMENT MARKING

ARW1	ARROWS TYPE 1, WHITE
ARW2	ARROWS TYPE 2, WHITE
ARW2R	ARROWS TYPE 2R, WHITE
WDW	WORDS, WHITE
CBY	CURB, YELLOW
INY	ISLAND NOSE, YELLOW
W4	4-INCH, WHITE
Y4	4-INCH, YELLOW
DY4	4-INCH, DOUBLE YELLOW
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP
W8	8-INCH, WHITE
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)

MATERIAL

E	EPOXY
GWRT	GROOVED WET REFLECTIVE TAPE
GPP	GROOVED PREFORMED PLASTIC
GPT	GROOVED PREFORMED THERMOPLASTIC



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVEMENT MARKING	SHEET	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\024506_pm.dgn PLOT DATE : 4/29/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42

2

LEGEND

PAVEMENT MARKING		MATERIAL	
ARW1	ARROWS TYPE 1, WHITE	E	EPOXY
ARW2	ARROWS TYPE 2, WHITE	GWRT	GROOVED WET REFLECTIVE TAPE
ARW2R	ARROWS TYPE 2R, WHITE	GPP	GROOVED PREFORMED PLASTIC
WDW	WORDS, WHITE	GPT	GROOVED PREFORMED THERMOPLASTIC
CBY	CURB, YELLOW		
INY	ISLAND NOSE, YELLOW		
W4	4-INCH, WHITE		
Y4	4-INCH, YELLOW		
DY4	4-INCH, DOUBLE YELLOW		
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP		
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP		
W8	8-INCH, WHITE		
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP		
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP		
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP		
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)		
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)		

N

W4 E

DY4 E

DY12 E

WDW E

SB STH 35

44'SB' 45'SB' 46'SB' 47'SB' 48'SB'

12'

45'NB'

NB STH 35

12' 46'NB' +16'NB' 47'NB' +67'NB' +66'NB' 48'NB' 49'NB'

12'

12'

MATCHLINE STA. 44+00'NB'

MATCHLINE STA. 49+50'NB'

W4 E

ARW2 E

W8 E

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVEMENT MARKING	SHEET	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\024507_pm.dgn PLOT DATE : 4/29/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2

2

N

CTH K

CANOPY

CMCP

SIGN

SEPTIC

SEPT

LEGEND

PAVEMENT MARKING

ARW1	ARROWS TYPE 1, WHITE
ARW2	ARROWS TYPE 2, WHITE
ARW2R	ARROWS TYPE 2R, WHITE
WDW	WORDS, WHITE
CBY	CURB, YELLOW
INY	ISLAND NOSE, YELLOW
W4	4-INCH, WHITE
Y4	4-INCH, YELLOW
DY4	4-INCH, DOUBLE YELLOW
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP
W8	8-INCH, WHITE
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)

MATERIAL

E	EPOXY
GWRT	GROOVED WET REFLECTIVE TAPE
GPP	GROOVED PREFORMED PLASTIC
GPT	GROOVED PREFORMED THERMOPLASTIC

MATCHLINE STA. 45+50'NB'

INY
Y

Y4
E

DY12
E

49'SB'

50'SB'

51'SB'

SB STH 35

52'SB'

53'SB'

54'SB'

STH 35

12'

+16'NB'

12'

50'NB'

60' R

51'NB'

52'NB'

12'

+03'NB'

NB STH 35

53'NB'

54'NB'

55'NB'

STH 35

W8
E

ARW2
E

W4
E

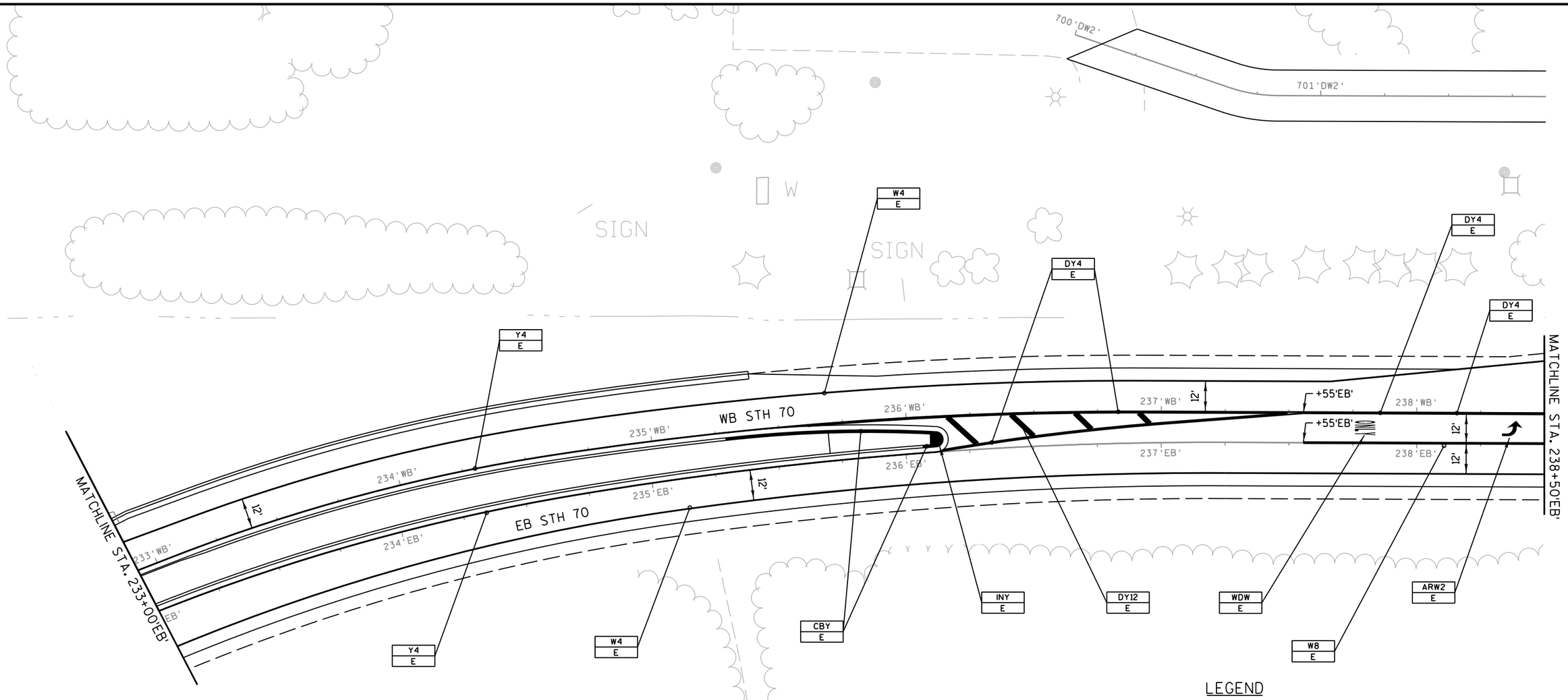
W4
E

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVEMENT MARKING	SHEET 72	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\024508_pm.dgn PLOT DATE : 4/29/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42

2



LEGEND

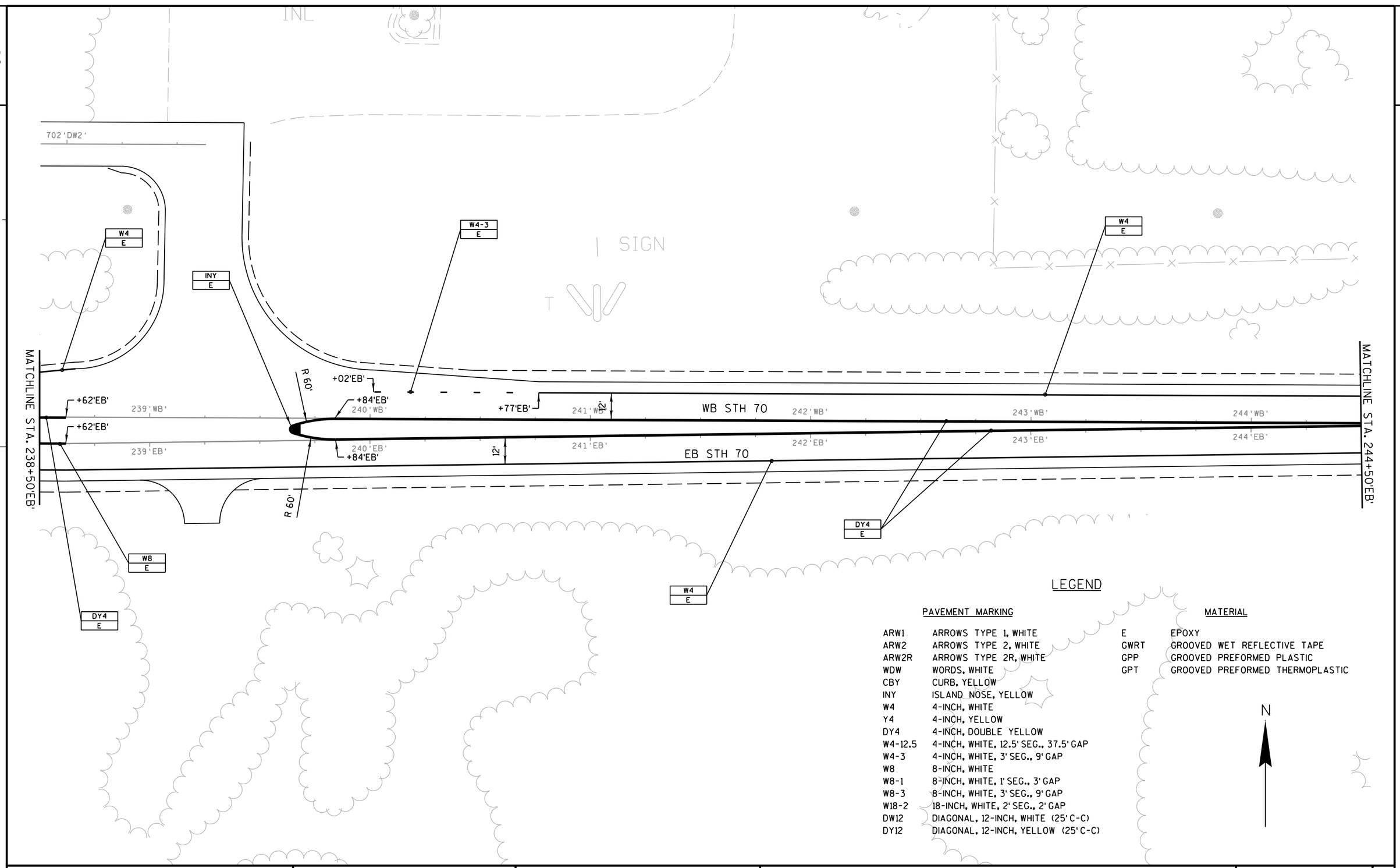
PAVEMENT MARKING

ARW1	ARROWS TYPE 1, WHITE
ARW2	ARROWS TYPE 2, WHITE
ARW2R	ARROWS TYPE 2R, WHITE
WDW	WORDS, WHITE
CBY	CURB, YELLOW
INY	ISLAND NOSE, YELLOW
W4	4-INCH, WHITE
Y4	4-INCH, YELLOW
DY4	4-INCH, DOUBLE YELLOW
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP
W8	8-INCH, WHITE
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)

MATERIAL

E	EPOXY
GWRT	GROOVED WET REFLECTIVE TAPE
GPP	GROOVED PREFORMED PLASTIC
GPT	GROOVED PREFORMED THERMOPLASTIC

2



LEGEND

PAVEMENT MARKING

ARW1	ARROWS TYPE 1, WHITE
ARW2	ARROWS TYPE 2, WHITE
ARW2R	ARROWS TYPE 2R, WHITE
WDW	WORDS, WHITE
CBY	CURB, YELLOW
INY	ISLAND NOSE, YELLOW
W4	4-INCH, WHITE
Y4	4-INCH, YELLOW
DY4	4-INCH, DOUBLE YELLOW
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP
W8	8-INCH, WHITE
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)

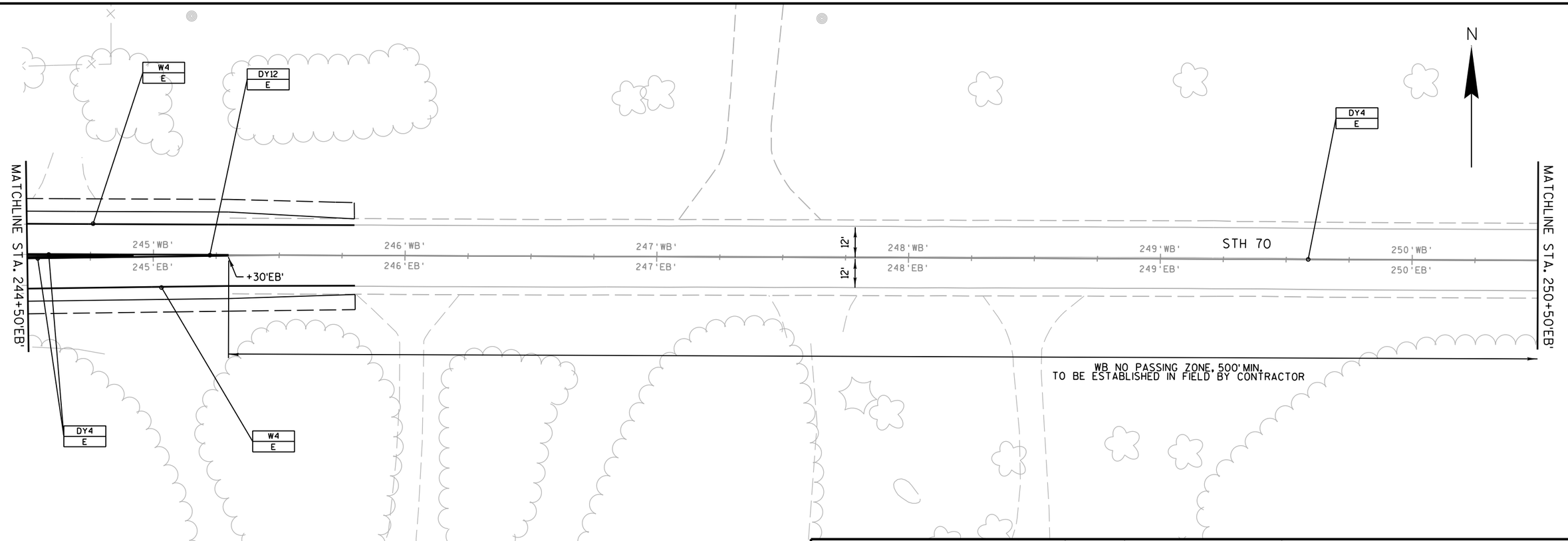
MATERIAL

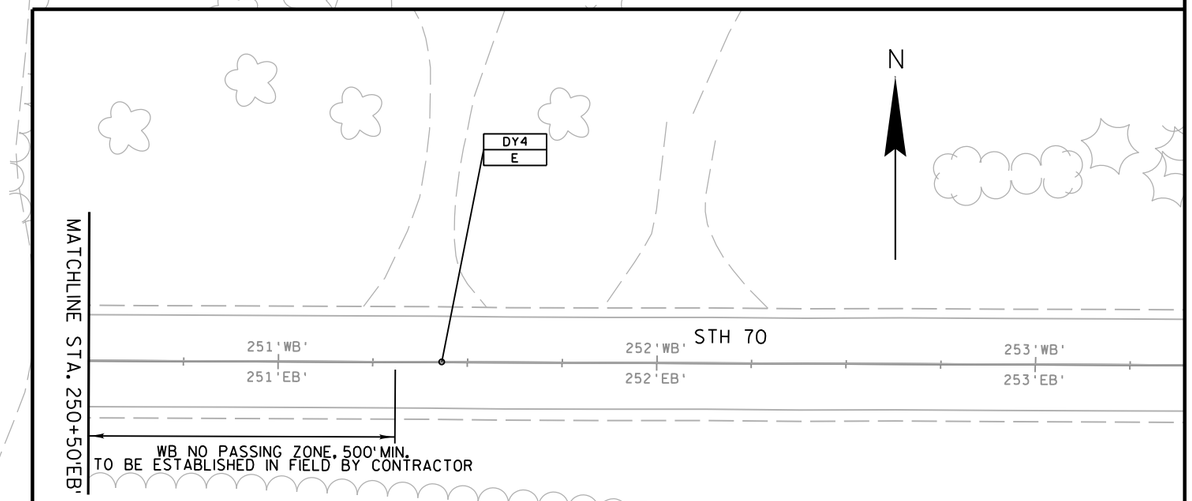
E	EPOXY
GWRT	GROOVED WET REFLECTIVE TAPE
GPP	GROOVED PREFORMED PLASTIC
GPT	GROOVED PREFORMED THERMOPLASTIC

N

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PAVEMENT MARKING	SHEET 74	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\024510_pm.dgn PLOT DATE : 4/29/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 40.0000 sf / in.





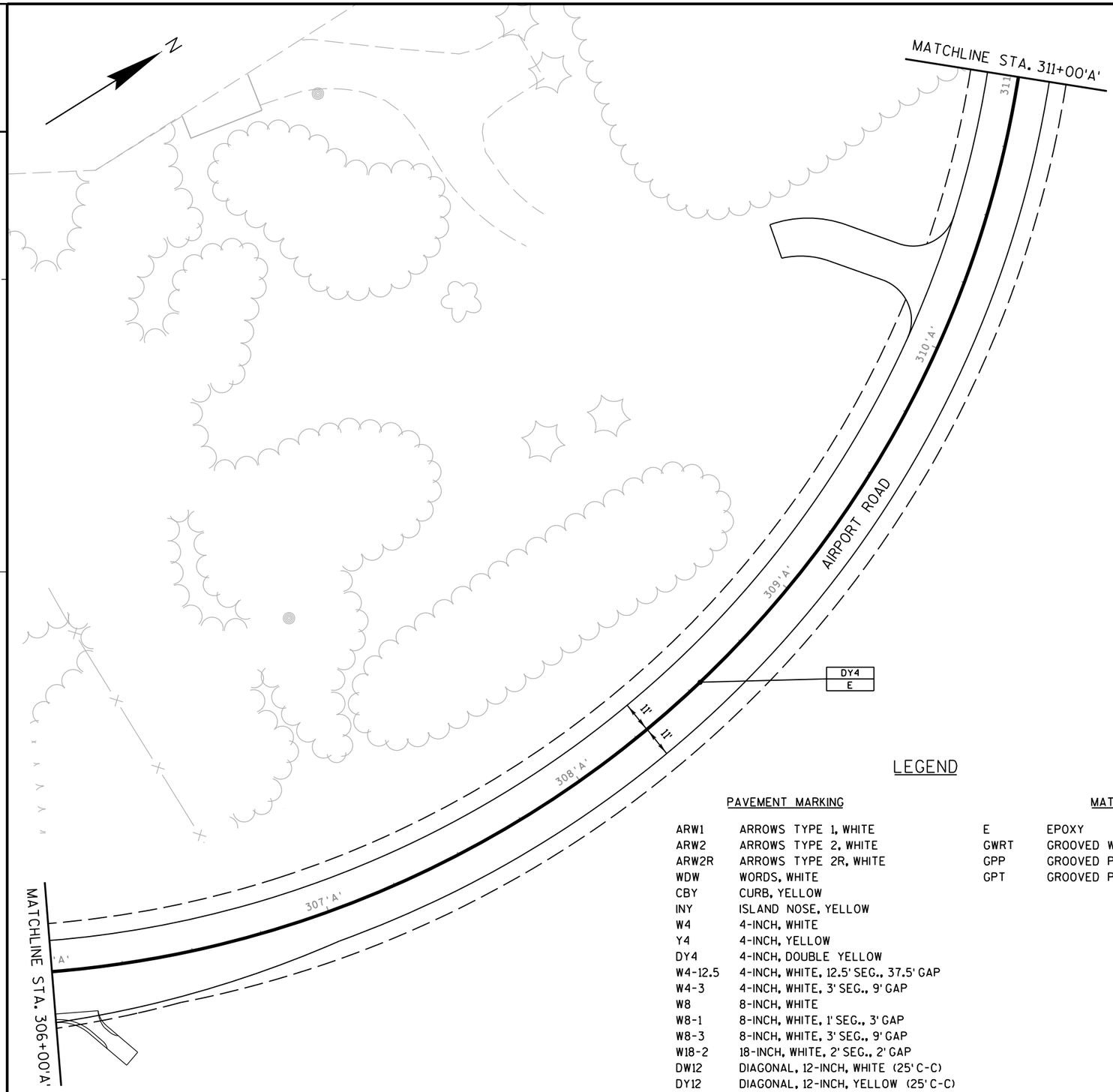
LEGEND

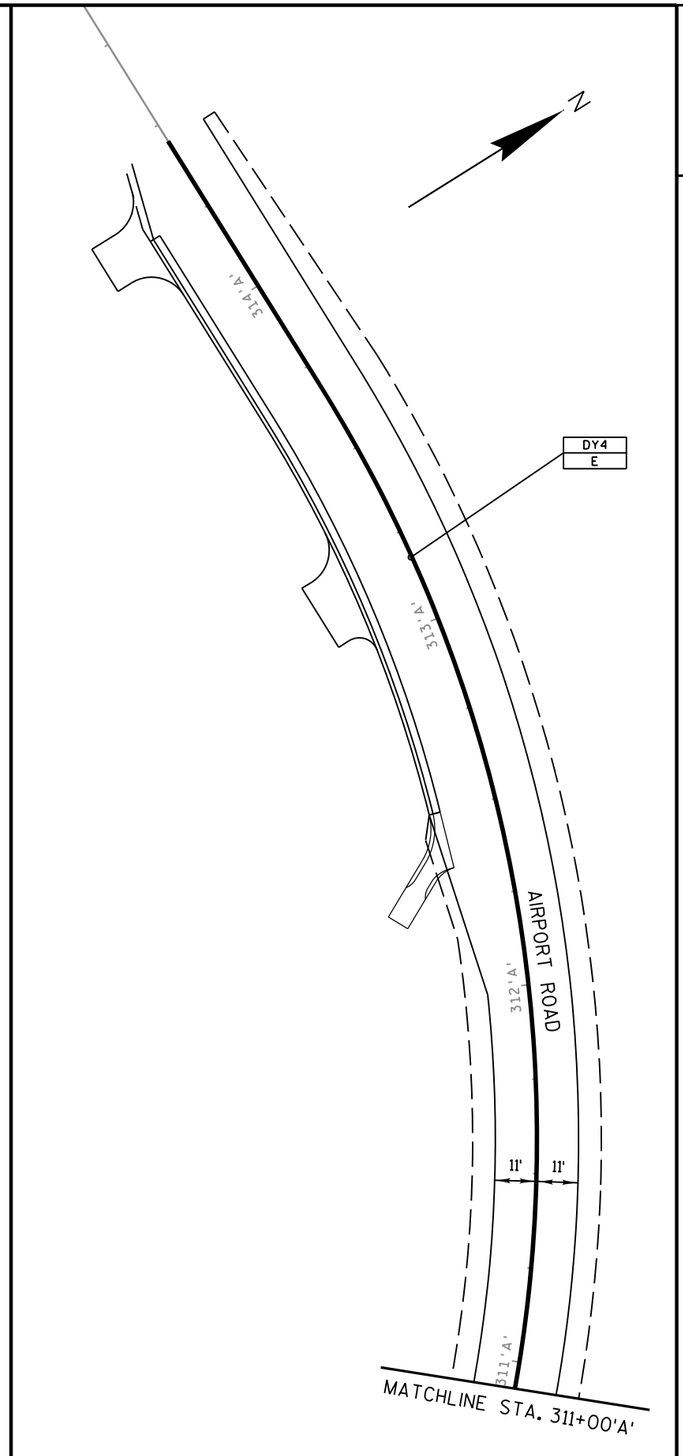
PAVEMENT MARKING

ARW1	ARROWS TYPE 1, WHITE
ARW2	ARROWS TYPE 2, WHITE
ARW2R	ARROWS TYPE 2R, WHITE
WDW	WORDS, WHITE
CBY	CURB, YELLOW
INY	ISLAND NOSE, YELLOW
W4	4-INCH, WHITE
Y4	4-INCH, YELLOW
DY4	4-INCH, DOUBLE YELLOW
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP
W8	8-INCH, WHITE
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)

MATERIAL

E	EPOXY
GWRT	GROOVED WET REFLECTIVE TAPE
GPP	GROOVED PREFORMED PLASTIC
GPT	GROOVED PREFORMED THERMOPLASTIC





LEGEND

PAVEMENT MARKING

ARW1	ARROWS TYPE 1, WHITE
ARW2	ARROWS TYPE 2, WHITE
ARW2R	ARROWS TYPE 2R, WHITE
WDW	WORDS, WHITE
CBY	CURB, YELLOW
INY	ISLAND NOSE, YELLOW
W4	4-INCH, WHITE
Y4	4-INCH, YELLOW
DY4	4-INCH, DOUBLE YELLOW
W4-12.5	4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W4-3	4-INCH, WHITE, 3' SEG., 9' GAP
W8	8-INCH, WHITE
W8-1	8-INCH, WHITE, 1' SEG., 3' GAP
W8-3	8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	18-INCH, WHITE, 2' SEG., 2' GAP
DW12	DIAGONAL, 12-INCH, WHITE (25' C-C)
DY12	DIAGONAL, 12-INCH, YELLOW (25' C-C)

MATERIAL

E	EPOXY
GWRT	GROOVED WET REFLECTIVE TAPE
GPP	GROOVED PREFORMED PLASTIC
GPT	GROOVED PREFORMED THERMOPLASTIC

2

GENERAL NOTES FOR TRAFFIC CONTROL

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

2) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER.

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

4) FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE "C" WARNING LIGHT.

5) ALL TYPE III BARRICADES WITH SIGNS SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.

6) ALL TEMPORARY PAVEMENT SHALL CONSIST OF 5 INCHES OF ASPHALTIC SURFACE TEMPORARY, ON 10 INCHES OF BASE AGGREGATE DENSE.

7) ALL PAVEMENT MARKINGS ON PERMANENT PAVEMENT SHALL BE REMOVABLE TAPE.

8) EXISTING STOP AHEAD AND STOP SIGNS CAN BE RELOCATED AND USED FOR TRAFFIC CONTROL.

9) ALL TEMPORARY STOP SIGNS SHALL HAVE TWO ORANGE FLAGS MOUNTED ABOVE THE SIGN.

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

11) BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

12) ALL TRAFFIC CONTROL DRUMS AND FLEXIBLE TUBULAR MARKERS SPACED AT 50-FEET UNLESS OTHERWISE NOTED.

13) ALL LANES ARE 12-FT WIDE UNLESS OTHERWISE NOTED.

14) MAINTAIN ALL SIDE ROAD AND DRIVEWAY ACCESS UNLESS OTHERWISE SPECIFIED IN THE PLANS.

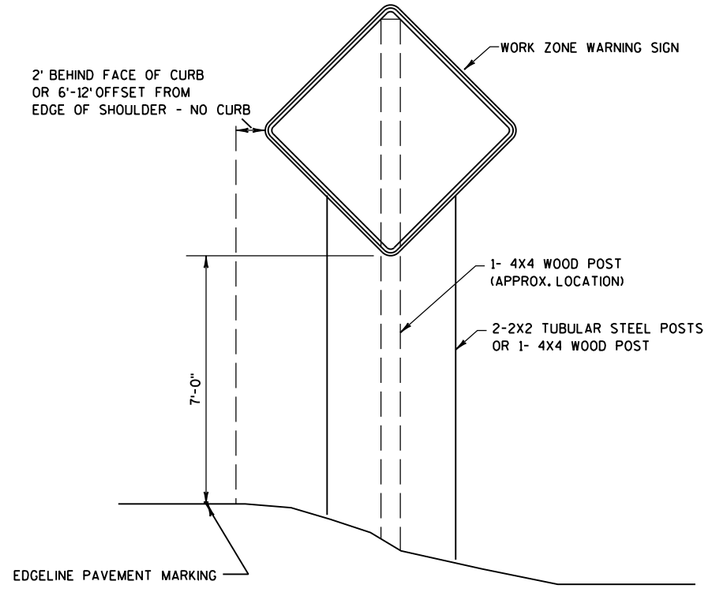
WORK ZONE TRAFFIC CONTROL SYMBOLS

- TRAFFIC CONTROL BARRICADE TYPE III
- TRAFFIC CONTROL BARRICADE TYPE III W/ SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/ WARNING LIGHTS TYPE C
- TRAFFIC CONTROL SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- FLAGS, 18" x 18" MIN., ORANGE
- TRAFFIC CONTROL FLASHING ARROW BOARD

- WORK ZONE
- PERMANENT WORK COMPLETED IN PRIOR STAGE
- TEMPORARY WORK COMPLETED IN PRIOR STAGE
- DIRECTION OF TRAFFIC
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- MB — TRAFFIC CONTROL SIGNS PCMS
- COVER/REMOVE PAVEMENT MARKINGS
- XXXXX — SAWING ASPHALT

WORK ZONE PAVEMENT MARKINGS

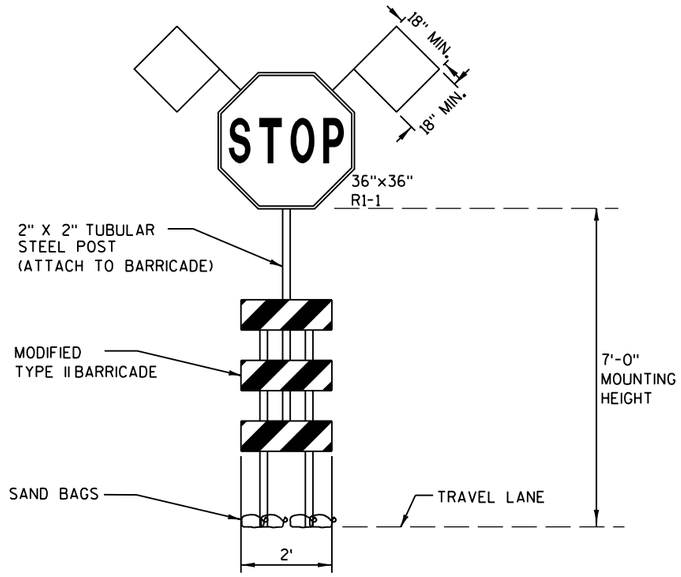
TPMY	TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)
TPMW	TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)
TPMRTY	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
TPMRTW	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
TPMWC	TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 8-INCH (WHITE)
TPMRTWC	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
TPMSL	TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT STOP LINE 12-INCH
TPMRTYL	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE), 2-FT LINE, 2-FT GAP



TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL

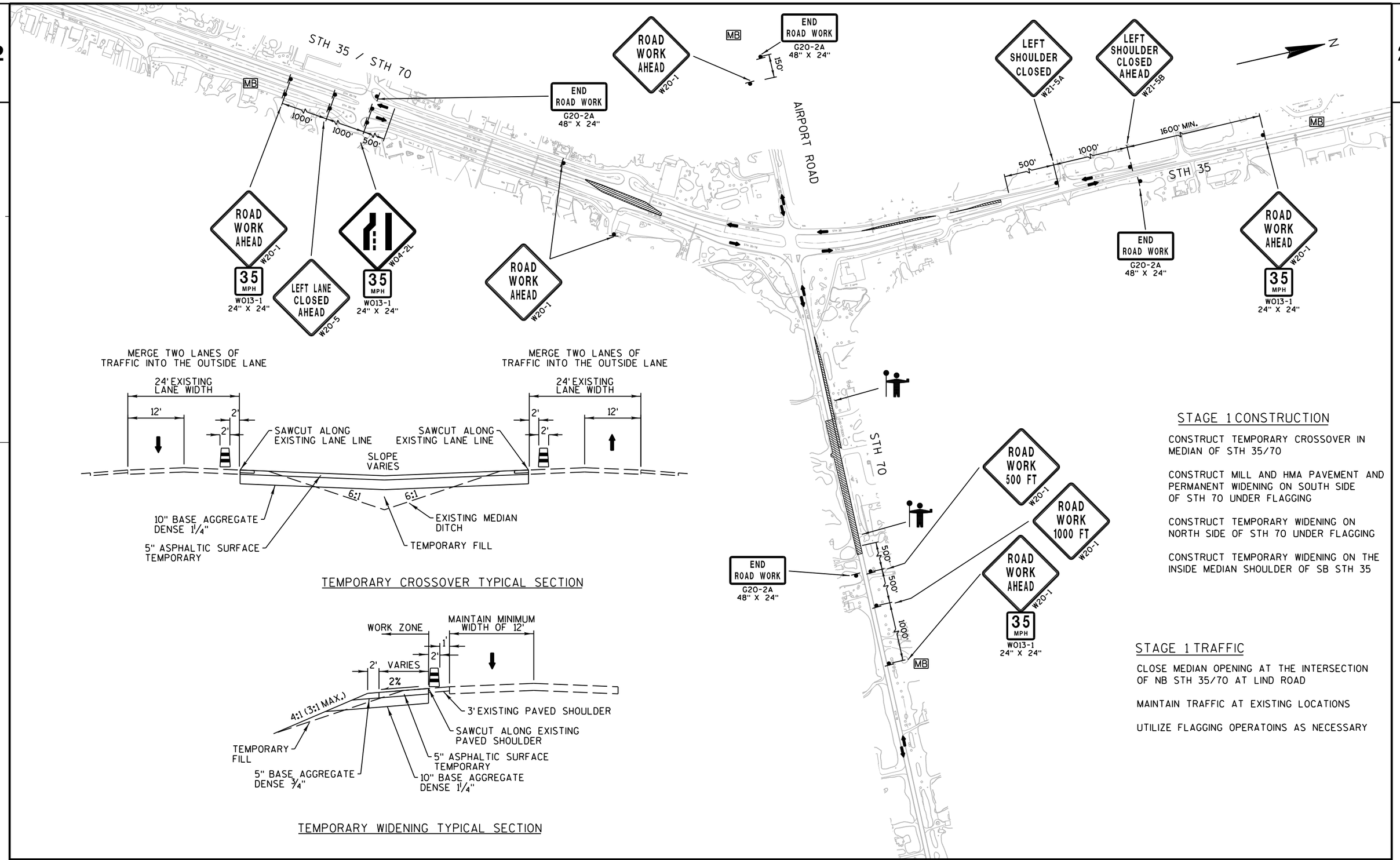
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE



TEMPORARY STOP SIGN

PAID FOR AS:
1-TRAFFIC CONTROL BARRICADES TYPE II
1-TRAFFIC CONTROL SIGNS



MERGE TWO LANES OF TRAFFIC INTO THE OUTSIDE LANE

TEMPORARY CROSSOVER TYPICAL SECTION

TEMPORARY WIDENING TYPICAL SECTION

STAGE 1 CONSTRUCTION

CONSTRUCT TEMPORARY CROSSOVER IN MEDIAN OF STH 35/70

CONSTRUCT MILL AND HMA PAVEMENT AND PERMANENT WIDENING ON SOUTH SIDE OF STH 70 UNDER FLAGGING

CONSTRUCT TEMPORARY WIDENING ON NORTH SIDE OF STH 70 UNDER FLAGGING

CONSTRUCT TEMPORARY WIDENING ON THE INSIDE MEDIAN SHOULDER OF SB STH 35

STAGE 1 TRAFFIC

CLOSE MEDIAN OPENING AT THE INTERSECTION OF NB STH 35/70 AT LIND ROAD

MAINTAIN TRAFFIC AT EXISTING LOCATIONS

UTILIZE FLAGGING OPERATOINS AS NECESSARY

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 1	SHEET 78	E

2

SEE TRAFFIC CONTROL STAGE 1 OVERVIEW SHEET FOR ADVANCED WARNING SIGNING

LUVERNE RD

SB STH 35/70

NB STH 35/70

SERVICE RD

SERVICE RD.

50' (TYP.)

COVER EXISTING PAVEMENT MARKING

TPMRTY

660' TAPER

MATCHLINE STAGE 1, 2, 3A, 3B, & 4A

R11-2 (MOD) 48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2 (MOD) 48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-2 24" X 24"

REMOVE EXISTING PAVEMENT MARKING

200' TAPER

TPMRTWC

PLACE CULVERT PIPE TEMPORARY 15-INCH

PLACE ASPHALTIC SURFACE TEMPORARY

25'

MATCHLINE STA. 23+00 NB

MATCHLINE STAGE 1

R11-2 (MOD) 48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-2 24" X 24"

LIND RD

LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)
- ASPHALTIC SURFACE TEMPORARY PLACED IN STAGE 1

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 1	SHEET 79	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\025003_tc_S1.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

2

MATCHLINE STA. 36+00 SB

N

SB STH 35

NB STH 35

STH 35

AIRPORT RD.

AIRPORT RD

STH 70

REMOVE EXISTING
PAVEMENT MARKING

TPMRTY

25'

330' TAPER

SB STH 35/70

NB STH 35/70

MATCHLINE STA. 23+00 NB

BE
PREPARED
TO STOP
W03-4

W20-7A

+83.6'TW1',1.5'

+28.7'TW1',13.6'

50'(TYP.)

13.4'

10'TW1'

11'TW1'

12'TW1'

13'TW1'

14'TW1'

15'TW1'

PLACE ASPHALTIC SURFACE TEMPORARY
UNDER FLAGGING

REMOVE CONCRETE PAVEMENT
(RUMBLE STRIPS) UNDER FLAGGING

MATCHLINE STA. 236+25 EB

RAMP

SEPTIC

A/C

SIGN

LEGEND

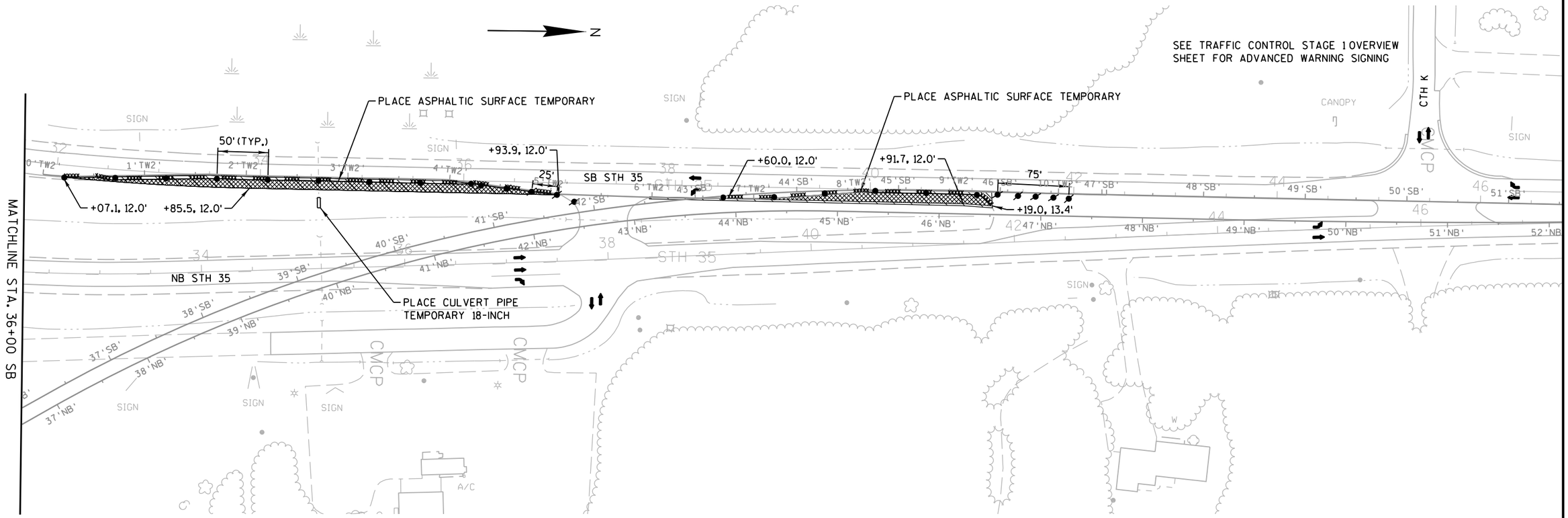
- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)
- ASPHALTIC SURFACE TEMPORARY PLACED IN STAGE 1

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 1	SHEET 80	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\025004_tc_S1.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

2



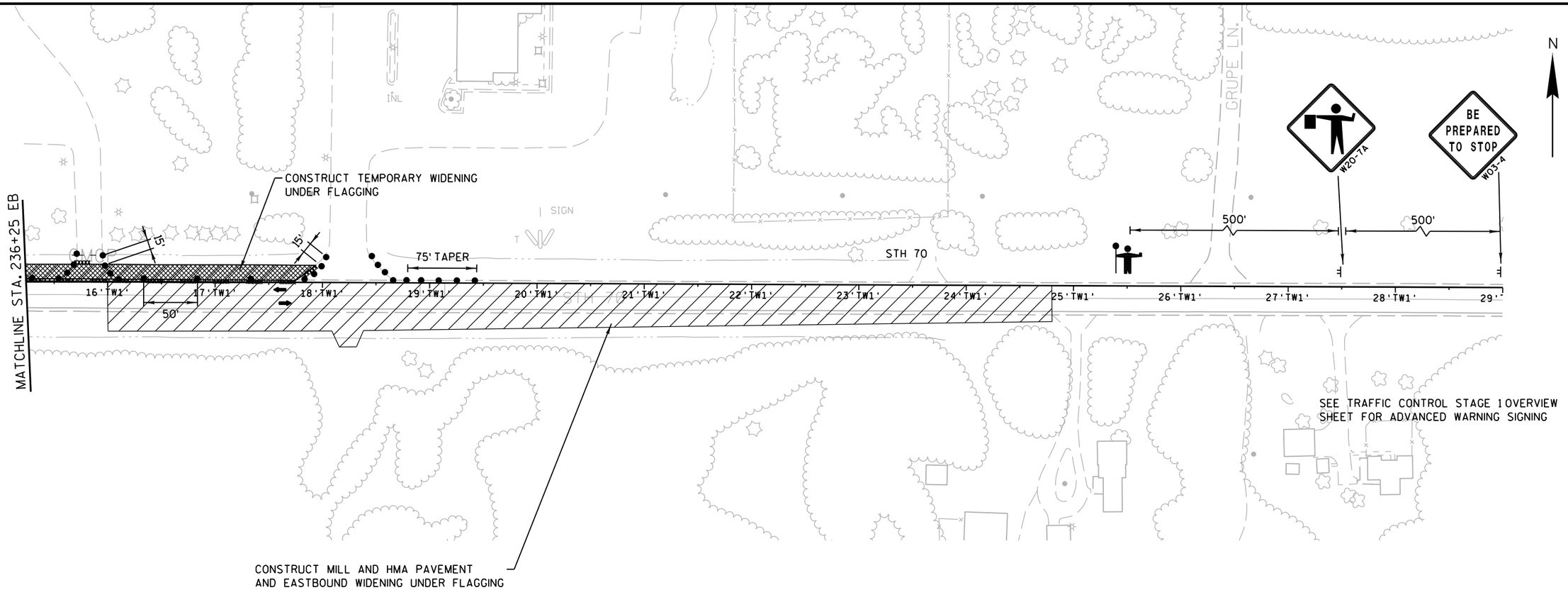
LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)
- ASPHALTIC SURFACE TEMPORARY PLACED IN STAGE 1

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 1	SHEET 81	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\025005_tc_S1.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.
WISDOT/CADDS SHEET 42

2

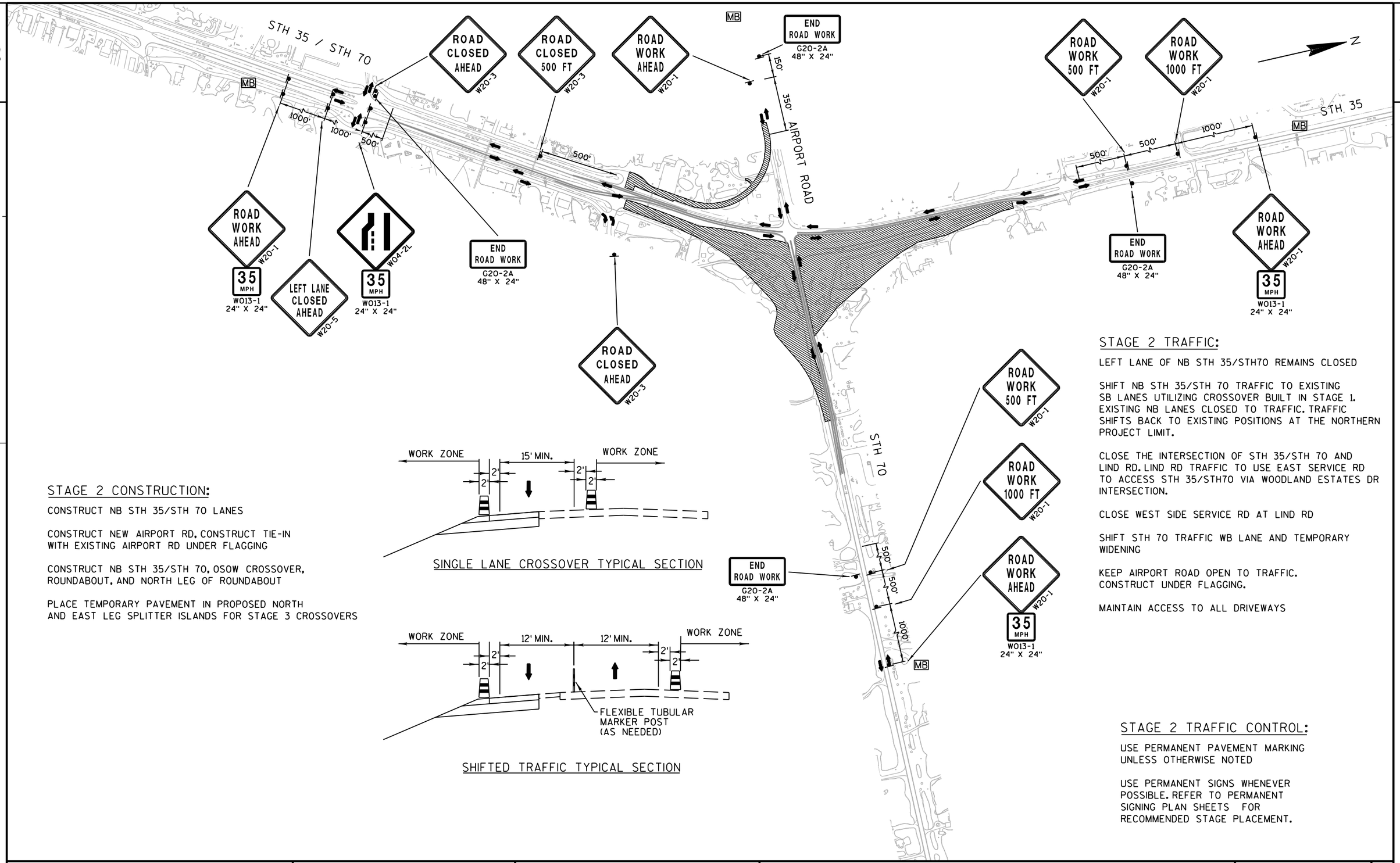


LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)
- ASPHALTIC SURFACE TEMPORARY PLACED IN STAGE 1

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 1	SHEET 82	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\025006_tc_S1.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.



STAGE 2 CONSTRUCTION:

CONSTRUCT NB STH 35/STH 70 LANES

CONSTRUCT NEW AIRPORT RD, CONSTRUCT TIE-IN WITH EXISTING AIRPORT RD UNDER FLAGGING

CONSTRUCT NB STH 35/STH 70, OSOW CROSSOVER, ROUNDABOUT, AND NORTH LEG OF ROUNDABOUT

PLACE TEMPORARY PAVEMENT IN PROPOSED NORTH AND EAST LEG SPLITTER ISLANDS FOR STAGE 3 CROSSOVERS

SINGLE LANE CROSSOVER TYPICAL SECTION

SHIFTED TRAFFIC TYPICAL SECTION

STAGE 2 TRAFFIC:

LEFT LANE OF NB STH 35/STH70 REMAINS CLOSED

SHIFT NB STH 35/STH 70 TRAFFIC TO EXISTING SB LANES UTILIZING CROSSOVER BUILT IN STAGE 1. EXISTING NB LANES CLOSED TO TRAFFIC. TRAFFIC SHIFTS BACK TO EXISTING POSITIONS AT THE NORTHERN PROJECT LIMIT.

CLOSE THE INTERSECTION OF STH 35/STH 70 AND LIND RD. LIND RD TRAFFIC TO USE EAST SERVICE RD TO ACCESS STH 35/STH70 VIA WOODLAND ESTATES DR INTERSECTION.

CLOSE WEST SIDE SERVICE RD AT LIND RD

SHIFT STH 70 TRAFFIC WB LANE AND TEMPORARY WIDENING

KEEP AIRPORT ROAD OPEN TO TRAFFIC. CONSTRUCT UNDER FLAGGING.

MAINTAIN ACCESS TO ALL DRIVEWAYS

STAGE 2 TRAFFIC CONTROL:

USE PERMANENT PAVEMENT MARKING UNLESS OTHERWISE NOTED

USE PERMANENT SIGNS WHENEVER POSSIBLE. REFER TO PERMANENT SIGNING PLAN SHEETS FOR RECOMMENDED STAGE PLACEMENT.

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 2	SHEET 83	E

2

SEE SDD,"BARRICADES AND SIGNS FOR SIDEROAD CLOSURE, DETAIL 1"

R11-2 48" X 30" ROAD CLOSED
TYPE III BARRICADE

R11-2(MOD) 48" X 30" LANE CLOSED
TYPE III BARRICADE

R11-2(MOD) 48" X 30" LANE CLOSED
TYPE III BARRICADE

W06-1

SEE TRAFFIC CONTROL STAGE 2 OVERVIEW SHEET FOR ADVANCED WARNING SIGNING

SERVICE RD

AIRPORT RD

REMOVABLE TAPE

PAINT

TPMY (DBL)

TPMRTY (DBL)

TPMW

TPMRTY

TPMRTW

50'(TYP.)

25'

15'

12'

SB STH 35/70

NB STH 35/70

MATCHLINE STAGE 2

MATCHLINE STA. 23+00 NB

W01-4L

W06-2

W01-6 48" X 24"
TYPE III BARRICADE

R11-2 48" X 30" ROAD CLOSED
TYPE III BARRICADE

W06-3

W03-1

LIND RD

LIND RD.

35 MPH
W013-1 24" X 24"

NORTH M3-1 24" X 12"
EAST M3-2 24" X 12"
35 M1-6 24" X 24"
70 M1-6 24" X 24"
M6-1 21" X 21"
M5-1R 21" X 21"

SEE SDD,"BARRICADES AND SIGNS FOR SIDEROAD CLOSURE, DETAIL 1"

LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)
- ASPHALTIC SURFACE TEMPORARY PLACED IN STAGE 2

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 2	SHEET 84	E

2

MATCHLINE STA. 31+50

SOUTH M3-3 24" X 12"
35 M1-6 24" X 24"
WEST M3-4 24" X 12"
NORTH M3-1 24" X 12"
70 M1-6 24" X 24"
35 M1-6 24" X 24"
M6-1 21" X 21"
M6-1 21" X 21"

BEGIN LEFT TURN LANE
R3-20L 24" X 36"

25'
CL
30'
SB STH 35
NB STH 35

REMOVE EXISTING PAVEMENT MARKING

EXISTING 8-INCH WHITE
TPMW
TPMY (DBL)
TPMSL

USE EXISTING ROUTE DIRECTIONAL ASSEMBLY FOR STAGE 2
STOP R1-1 36" X 36"

CONSTRUCT AIRPORT RD TIE-IN UNDER FLAGGING OPERATIONS

AIRPORT RD. AIRPORT RD

STOP R1-1 36" X 36"

SEE SDD,"BARRICADES AND SIGNS FOR MAINLINE CLOSURE, DETAIL D"

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

PLACE ASPHALTIC SURFACE TEMPORARY
W03-1

PLACE ASPHALTIC SURFACE TEMPORARY
TPMY (DBL)
25'
TPMW
50'
12'
25'
15'
STH 70
12'
15'
TPMSL
TPMWC
TPMW
TPMY (DBL)
AIRPORT RD
SB STH 35/70
NB STH 35/70
50'(TYP.)
STOP R1-1 36" X 36"
MATCHLINE STA. 23+00 NB

REMOVE EXISTING PAVEMENT MARKING

PLACE ASPHALTIC SURFACE TEMPORARY

MATCHLINE STA. 236+25 EB

RAMP

N

NORTH M3-1 24" X 12"
EAST M3-2 24" X 12"
35 M1-6 24" X 24"
70 M1-6 24" X 24"
M6-1 21" X 21"
M6-1 21" X 21"

SEE SDD,"BARRICADES AND SIGNS FOR MAINLINE CLOSURE, DETAIL D"

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W24-1L
35 MPH
W013-1 24" X 24"

W01-6 48" X 24"
TYPE III BARRICADE

LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)
- ASPHALTIC SURFACE TEMPORARY PLACED IN STAGE 2

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 2	SHEET 85	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\025009_tc_S2.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

2

N

W03-1

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

MAINTAIN DRIVEWAY ACCESS AT ALL TIMES

W01-6
48" X 24"
TYPE III BARRICADE

COVER EXISTING PAVEMENT MARKINGS

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

MATCHLINE STA. 31+50

TPMY
(DBL)

TPMW

SB STH 35
NB STH 35

50'(TYP.)

PAINT

REMOVABLE TAPE

TPMRTY

EXISTING 8-INCH WHITE

CTH K

TPMRTW

25'

SEE TRAFFIC CONTROL STAGE 2 OVERVIEW SHEET FOR ADVANCED WARNING SIGNING

SEE SDD,"BARRICADES AND SIGNS FOR MAINLINE CLOSURE, DETAIL D"

W01-4R

35 MPH
W013-1
24" X 24"

W06-1

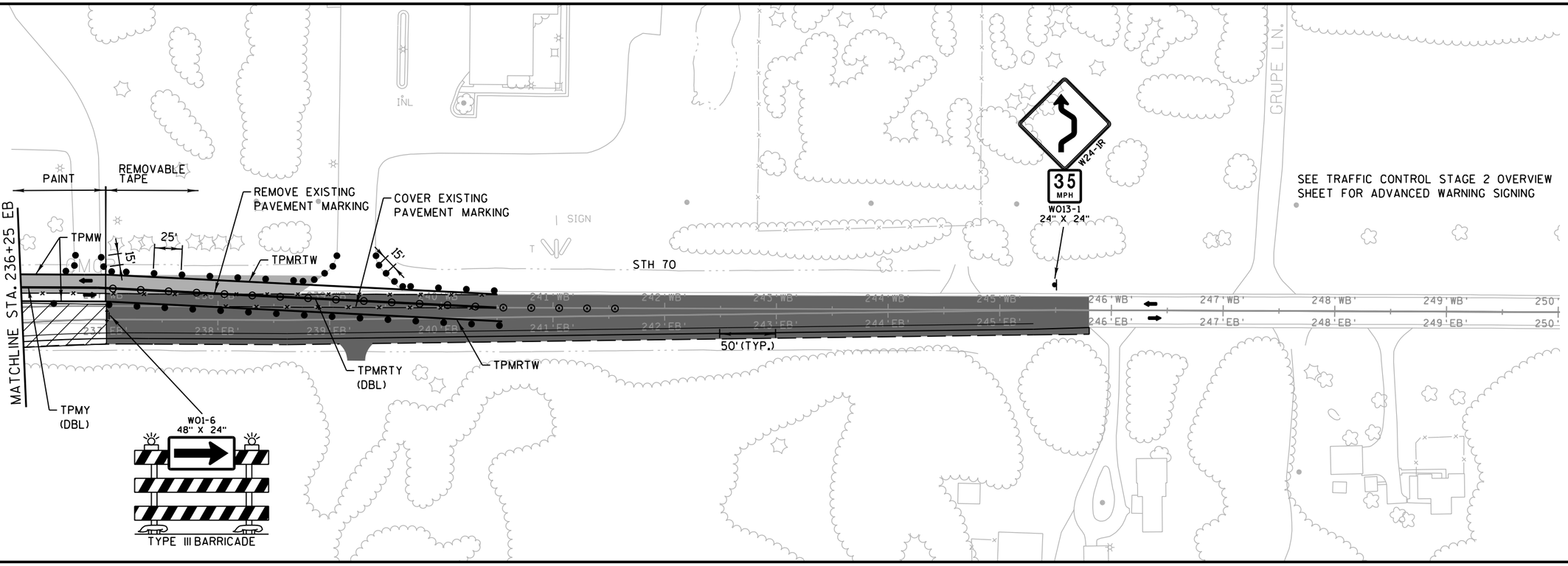
R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W06-3

LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)
- ASPHALTIC SURFACE TEMPORARY PLACED IN STAGE 2

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 2	SHEET 86	E

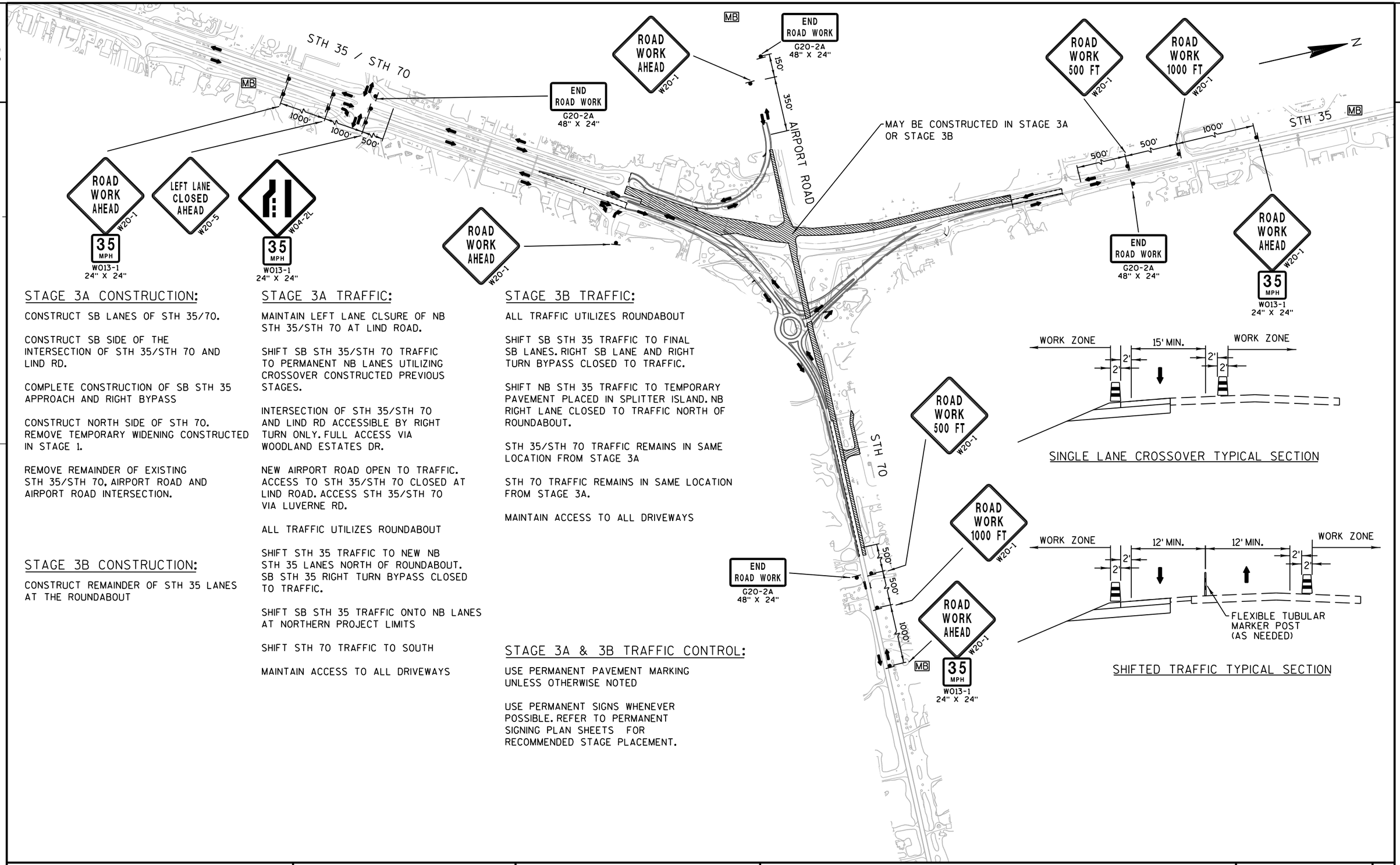


N

LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)
- ASPHALTIC SURFACE TEMPORARY PLACED IN STAGE 2

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 2	SHEET 87	E



STAGE 3A CONSTRUCTION:

CONSTRUCT SB LANES OF STH 35/70.

CONSTRUCT SB SIDE OF THE INTERSECTION OF STH 35/STH 70 AND LIND RD.

COMPLETE CONSTRUCTION OF SB STH 35 APPROACH AND RIGHT BYPASS

CONSTRUCT NORTH SIDE OF STH 70. REMOVE TEMPORARY WIDENING CONSTRUCTED IN STAGE 1.

REMOVE REMAINDER OF EXISTING STH 35/STH 70, AIRPORT ROAD AND AIRPORT ROAD INTERSECTION.

STAGE 3B CONSTRUCTION:

CONSTRUCT REMAINDER OF STH 35 LANES AT THE ROUNDABOUT

STAGE 3A TRAFFIC:

MAINTAIN LEFT LANE CLSURE OF NB STH 35/STH 70 AT LIND ROAD.

SHIFT SB STH 35/STH 70 TRAFFIC TO PERMANENT NB LANES UTILIZING CROSSOVER CONSTRUCTED PREVIOUS STAGES.

INTERSECTION OF STH 35/STH 70 AND LIND RD ACCESSIBLE BY RIGHT TURN ONLY. FULL ACCESS VIA WOODLAND ESTATES DR.

NEW AIRPORT ROAD OPEN TO TRAFFIC. ACCESS TO STH 35/STH 70 CLOSED AT LIND ROAD. ACCESS STH 35/STH 70 VIA LUVERNE RD.

ALL TRAFFIC UTILIZES ROUNDABOUT

SHIFT STH 35 TRAFFIC TO NEW NB STH 35 LANES NORTH OF ROUNDABOUT. SB STH 35 RIGHT TURN BYPASS CLOSED TO TRAFFIC.

SHIFT SB STH 35 TRAFFIC ONTO NB LANES AT NORTHERN PROJECT LIMITS

SHIFT STH 70 TRAFFIC TO SOUTH

MAINTAIN ACCESS TO ALL DRIVEWAYS

STAGE 3B TRAFFIC:

ALL TRAFFIC UTILIZES ROUNDABOUT

SHIFT SB STH 35 TRAFFIC TO FINAL SB LANES. RIGHT SB LANE AND RIGHT TURN BYPASS CLOSED TO TRAFFIC.

SHIFT NB STH 35 TRAFFIC TO TEMPORARY PAVEMENT PLACED IN SPLITTER ISLAND. NB RIGHT LANE CLOSED TO TRAFFIC NORTH OF ROUNDABOUT.

STH 35/STH 70 TRAFFIC REMAINS IN SAME LOCATION FROM STAGE 3A

STH 70 TRAFFIC REMAINS IN SAME LOCATION FROM STAGE 3A.

MAINTAIN ACCESS TO ALL DRIVEWAYS

STAGE 3A & 3B TRAFFIC CONTROL:

USE PERMANENT PAVEMENT MARKING UNLESS OTHERWISE NOTED

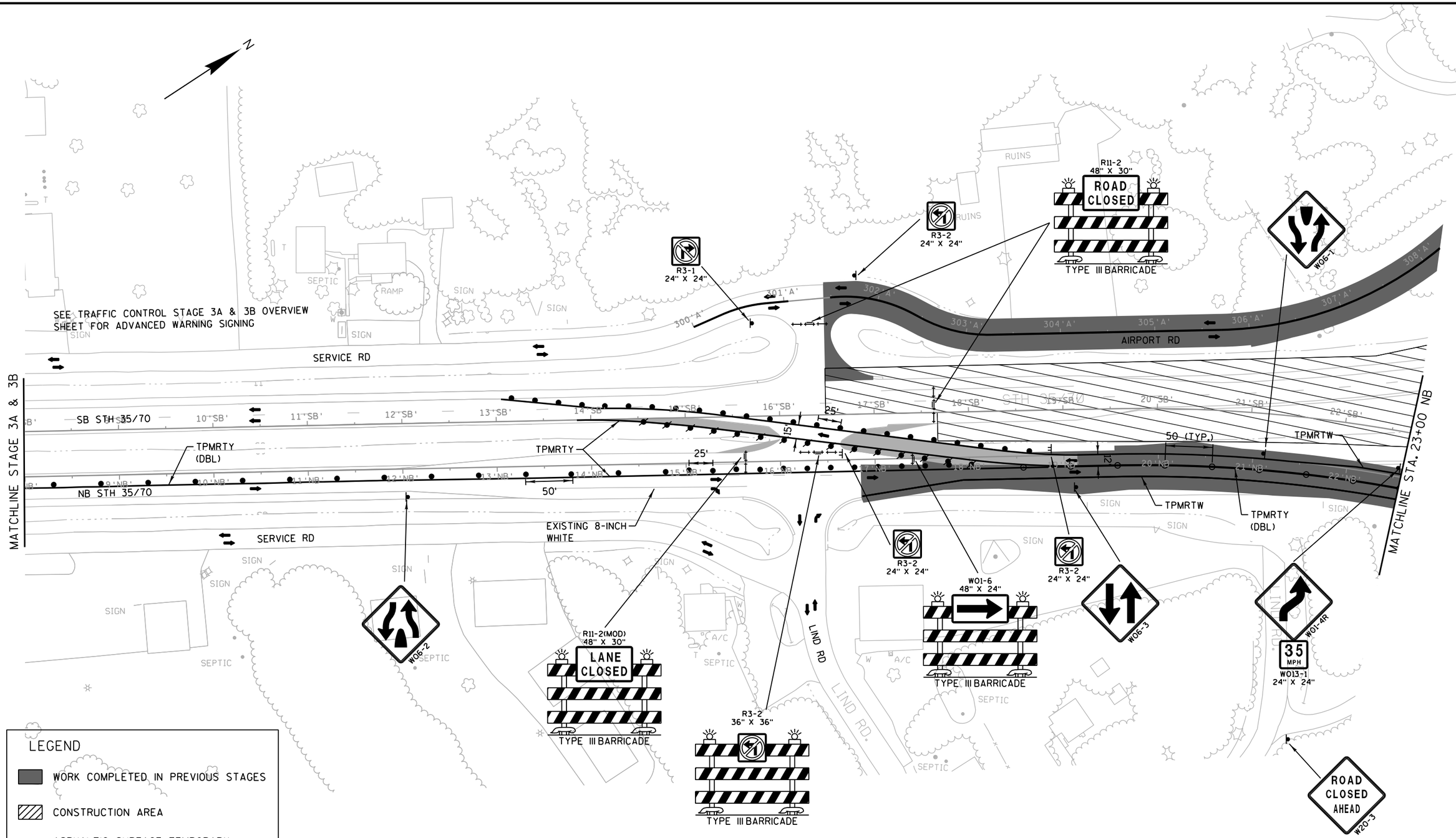
USE PERMANENT SIGNS WHENEVER POSSIBLE. REFER TO PERMANENT SIGNING PLAN SHEETS FOR RECOMMENDED STAGE PLACEMENT.

SINGLE LANE CROSSOVER TYPICAL SECTION

SHIFTED TRAFFIC TYPICAL SECTION

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 3A & 3B	SHEET 88	E

2



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 3A & 3B	SHEET 89	E

2

N

MATCHLINE STA. 36+50 NB

TPMRTY

50'

TPMRTW

SB STH 35

NB STH 35

R11-2(MOD)
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SOUTH
M3-3
24" X 12"
35
M1-6
24" X 24"

EAST
M3-2
24" X 12"
70
M1-6
24" X 24"
M6-1
21" X 21"

WEST
M3-4
24" X 12"
70
M1-6
24" X 24"
M6-1
21" X 21"

TPMRTW

W01-6
48" X 24"
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

TPMRTY
(DBL)

NORTH
M3-1
24" X 12"
35
M1-6
24" X 24"
M6-2
21" X 21"

RAMP

SIGN

TPMRTW

TPMRTY

25'

WB STH 70

EB STH 70

TPMRTY

TPMRTW

TPMRTY
(DBL)

MATCHLINE STA. 236+25 EB

AIRPORT RD

R1-2
36" X 31"

TPMRTYL

TPMRTW

W06-3

W01-6
48" X 24"
TYPE III BARRICADE

SB STH 35/70

NB STH 35/70

TPMRTW

TPMRTWC

TPMRTY

TPMRTW

MATCHLINE STA. 23+00 NB

TPMRTY
(DBL)

R11-2(MOD)
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W01-4L

35
MPH
W013-1
24" X 24"

SOUTH
M3-3
24" X 12"
35
M1-6
24" X 24"

WEST
M3-4
24" X 12"
70
M1-6
24" X 24"
M6-1
21" X 21"

NORTH
M3-1
24" X 12"
35
M1-6
24" X 24"
M6-1
21" X 21"

W01-4L

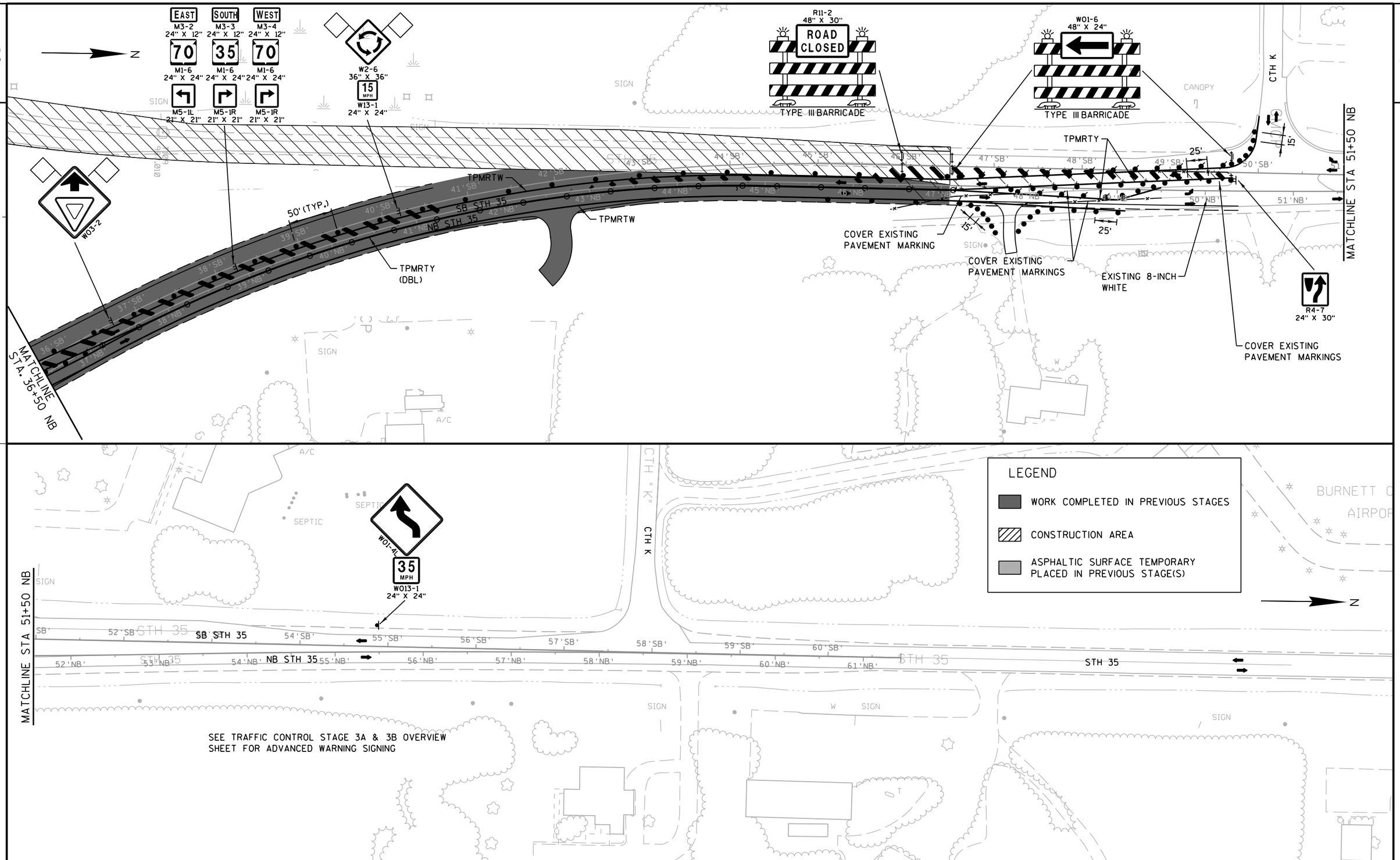
35
MPH
W013-1
24" X 24"

LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)

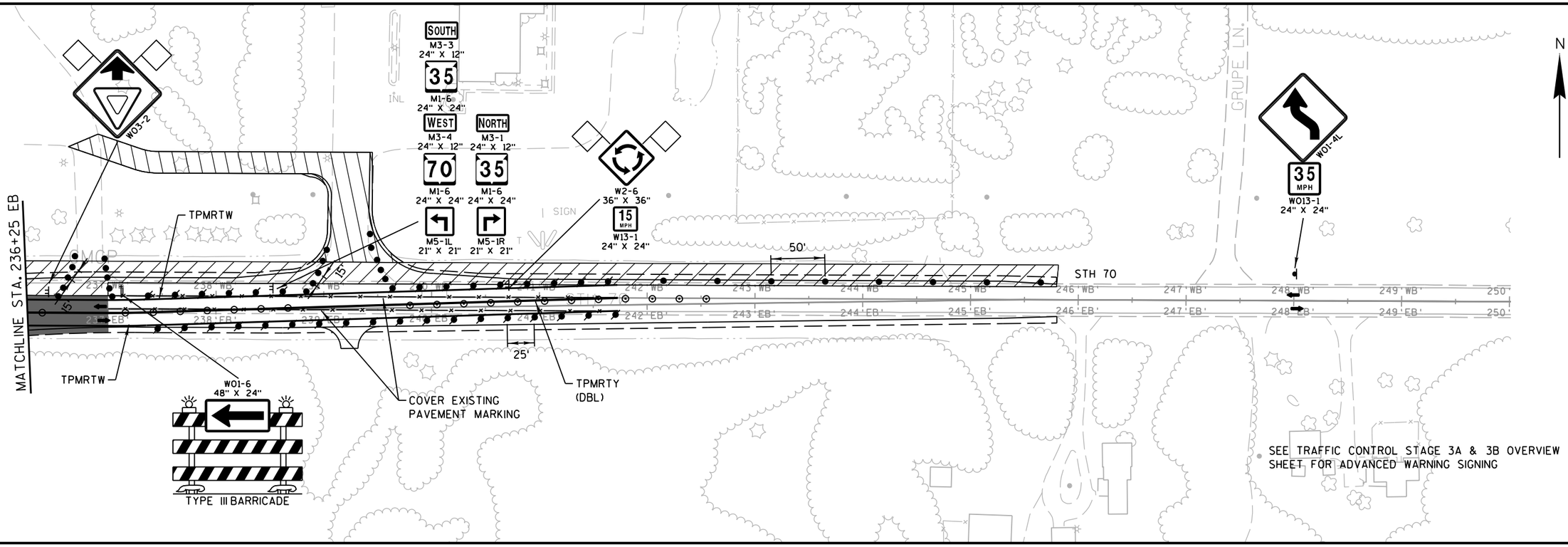
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 3A	SHEET 90	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\025015_tc_S3a.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.



SEE TRAFFIC CONTROL STAGE 3A & 3B OVERVIEW SHEET FOR ADVANCED WARNING SIGNING

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 3A	SHEET 91	E



LEGEND

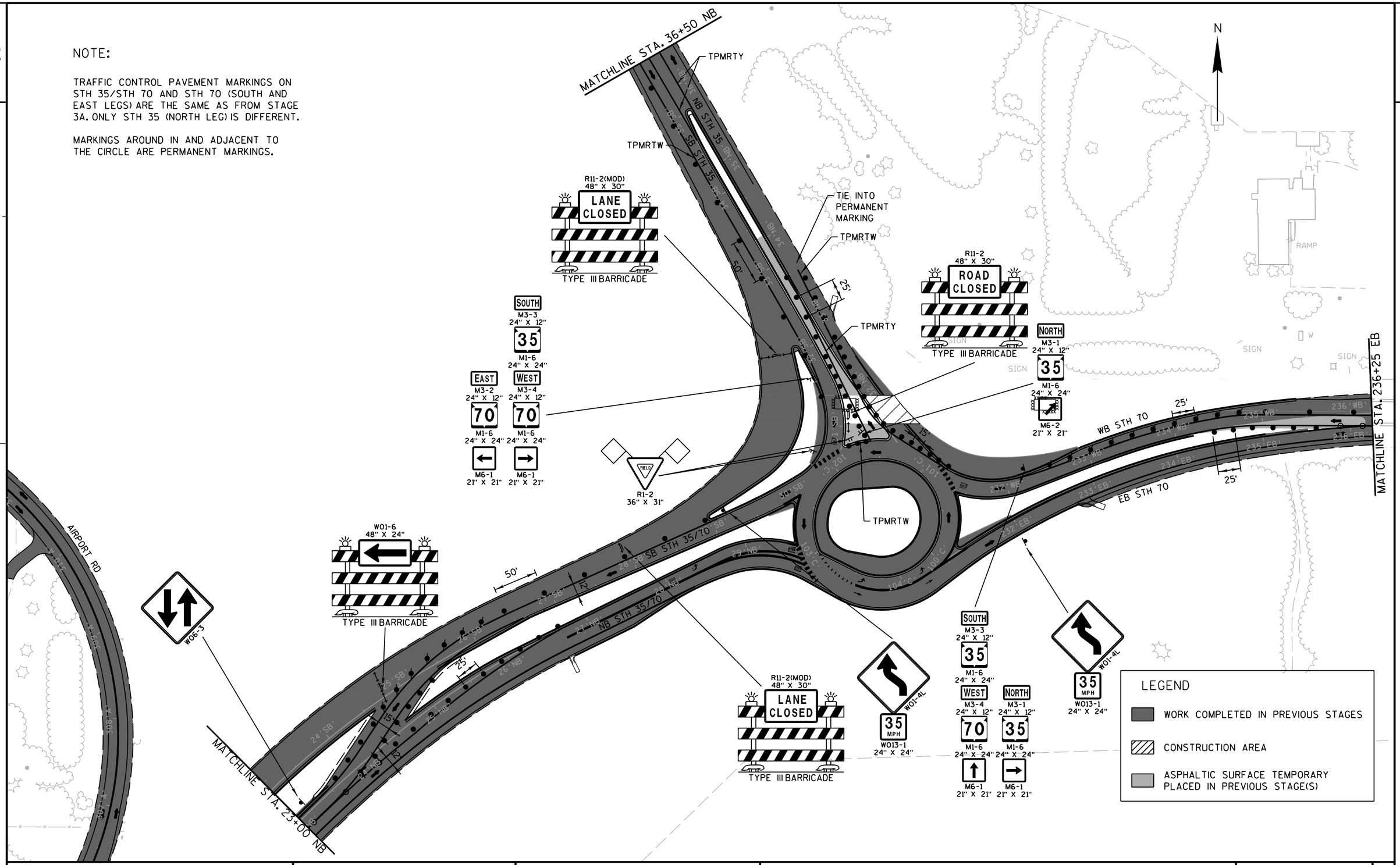
- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 3A & 3B	SHEET 92	E

NOTE:

TRAFFIC CONTROL PAVEMENT MARKINGS ON STH 35/STH 70 AND STH 70 (SOUTH AND EAST LEGS) ARE THE SAME AS FROM STAGE 3A. ONLY STH 35 (NORTH LEG) IS DIFFERENT.

MARKINGS AROUND IN AND ADJACENT TO THE CIRCLE ARE PERMANENT MARKINGS.



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 3B	SHEET 93	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\025017_tc_S3b.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

2

N

SIGN

SIGN

CANOPY

CTH K

SIGN

38'SB' 39'SB' 40'SB' 41'SB' 42'SB' 43'SB' 44'SB' 45'SB' 46'SB' 47'SB' 48'SB' 49'SB' 50'SB' 51'SB'

SB STH 35

36'SB' 37'SB' 38'SB' 39'NB' 40'NB' 41'NB' 42'NB' 43'NB' 44'NB' 45'NB' 46'NB' 47'NB' 48'NB' 49'NB' 50'NB' 51'NB' 52'NB'

NB STH 35

MATCHLINE STA. 36+50 NB

SIGN

CMCP

CMCP

SIGN

A/C

SIGN

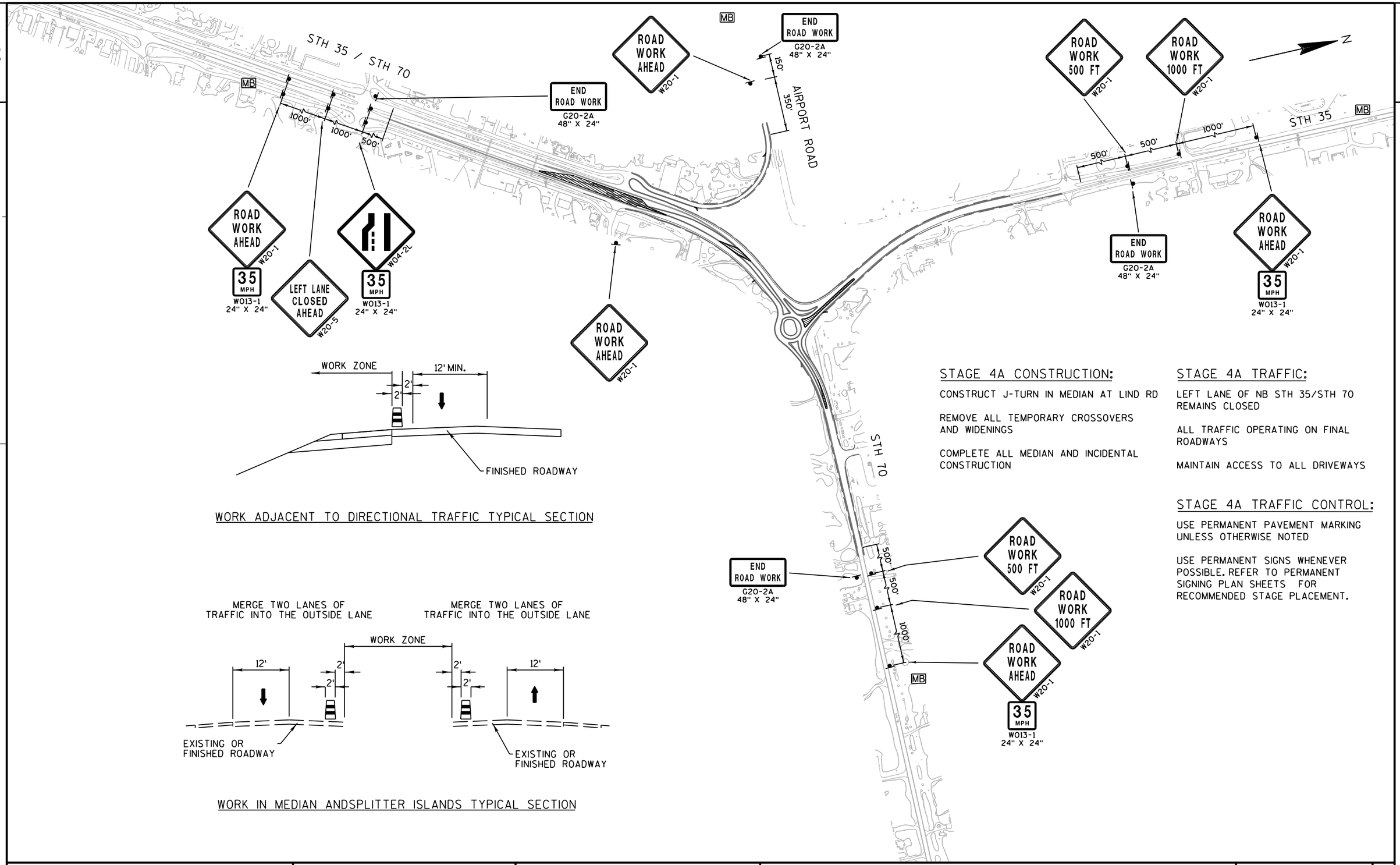
W

SEE TRAFFIC CONTROL STAGE 3A & 3B OVERVIEW SHEET FOR ADVANCED WARNING SIGNING

LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 3B	SHEET 94	E



WORK ADJACENT TO DIRECTIONAL TRAFFIC TYPICAL SECTION

WORK IN MEDIAN ANDSPLITTER ISLANDS TYPICAL SECTION

STAGE 4A CONSTRUCTION:

CONSTRUCT J-TURN IN MEDIAN AT LIND RD

REMOVE ALL TEMPORARY CROSSOVERS AND WIDENINGS

COMPLETE ALL MEDIAN AND INCIDENTAL CONSTRUCTION

STAGE 4A TRAFFIC:

LEFT LANE OF NB STH 35/STH 70 REMAINS CLOSED

ALL TRAFFIC OPERATING ON FINAL ROADWAYS

MAINTAIN ACCESS TO ALL DRIVEWAYS

STAGE 4A TRAFFIC CONTROL:

USE PERMANENT PAVEMENT MARKING UNLESS OTHERWISE NOTED

USE PERMANENT SIGNS WHENEVER POSSIBLE. REFER TO PERMANENT SIGNING PLAN SHEETS FOR RECOMMENDED STAGE PLACEMENT.

2

N

SEE TRAFFIC CONTROL STAGE 4A OVERVIEW SHEET FOR ADVANCED WARNING SIGNING

SERVICE RD

SB STH 35/70

NB STH 35/70

200' TAPER

25'

50' (TYP.)

TPMRTY

R3-2
24" X 24"

R11-2(MOD)
48" X 30"
LANE CLOSED

TYPE III BARRICADE

AIRPORT RD

330' TAPER

185' TAPER

MATCHLINE STAGE 4A

MATCHLINE STA. 23+00 NB

LIND RD

LIND RD.

RUINS

SEPTIC

RAMP

SIGN

A/C

LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 4A	SHEET 96	E

SEE TRAFFIC CONTROL STAGE 4A OVERVIEW SHEET FOR ADVANCED WARNING SIGNING

N

75' TAPER

NB STH 35

SB STH 35

NORTH
M3-1
24" X 12"

35
M1-6
24" X 24"

M6-2
21" X 21"

SIGN

RAMP

W012-1R
24" X 24"

25'

YIELD
R1-2
36" X 31"

W04-2L

35
MPH
W013-1
24" X 24"

EB STH 70

WB STH 70

15'

MATCHLINE STA. 236+25 EB

AIRPORT RD

SB STH 35/70

NB STH 35/70

330' TAPER

50'

MATCHLINE STA. 23+00 NB

W04-1

LEFT LANE CLOSED AHEAD
W20-5

35
MPH
W013-1
24" X 24"

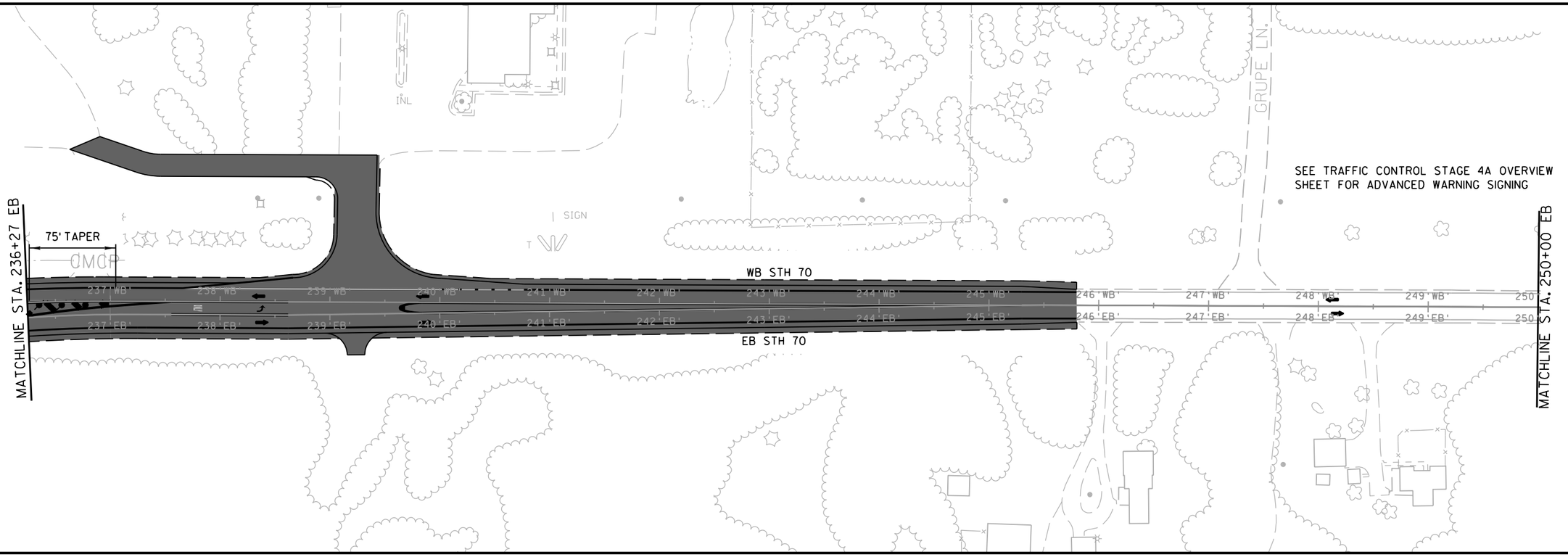
LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 4A	SHEET 97 E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\025021_tc_S4a.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42



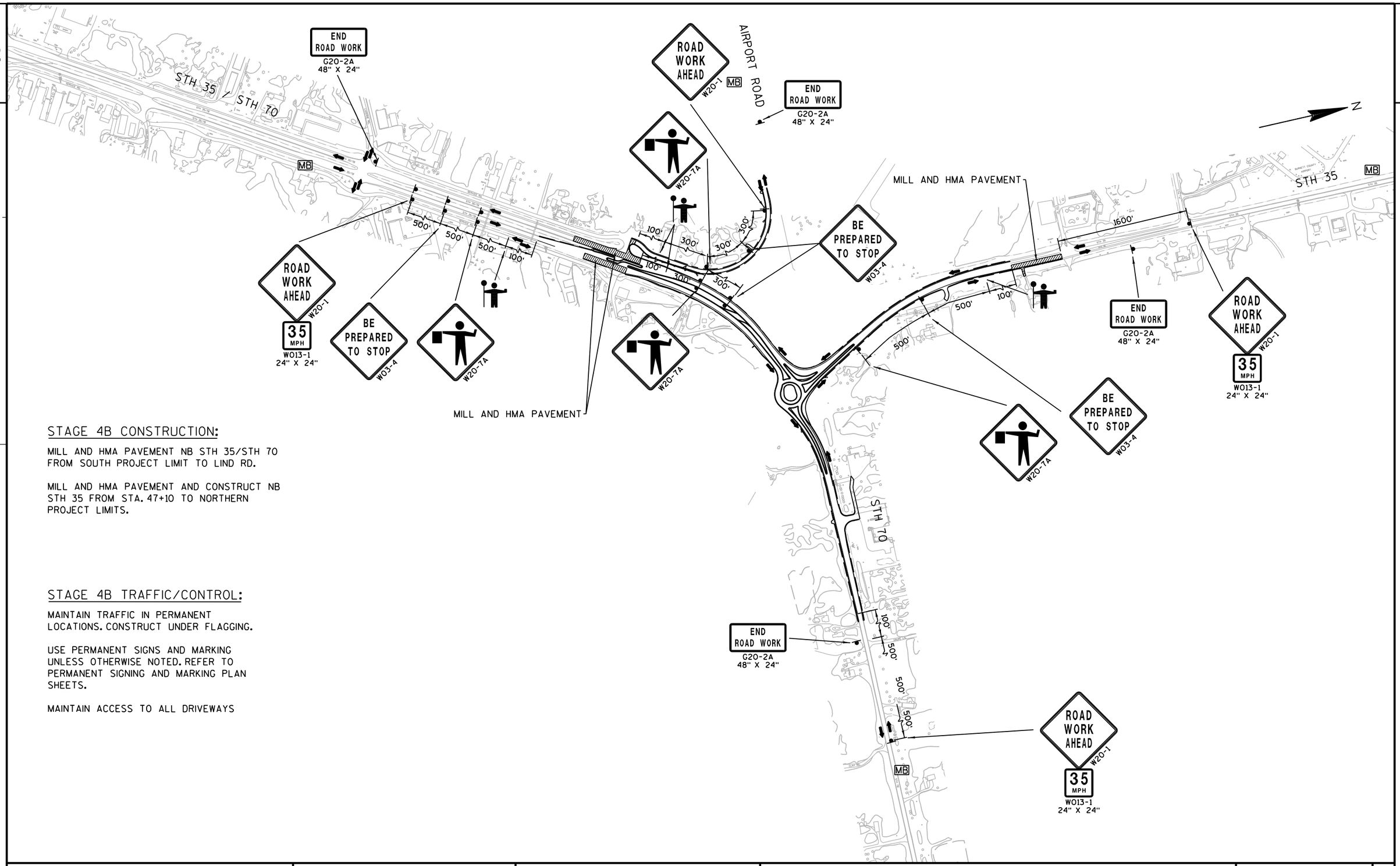
LEGEND

- WORK COMPLETED IN PREVIOUS STAGES
- CONSTRUCTION AREA
- ASPHALTIC SURFACE TEMPORARY PLACED IN PREVIOUS STAGE(S)

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 4A	SHEET 98	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\025022_tc_S4a.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42



STAGE 4B CONSTRUCTION:

MILL AND HMA PAVEMENT NB STH 35/STH 70 FROM SOUTH PROJECT LIMIT TO LIND RD.

MILL AND HMA PAVEMENT AND CONSTRUCT NB STH 35 FROM STA. 47+10 TO NORTHERN PROJECT LIMITS.

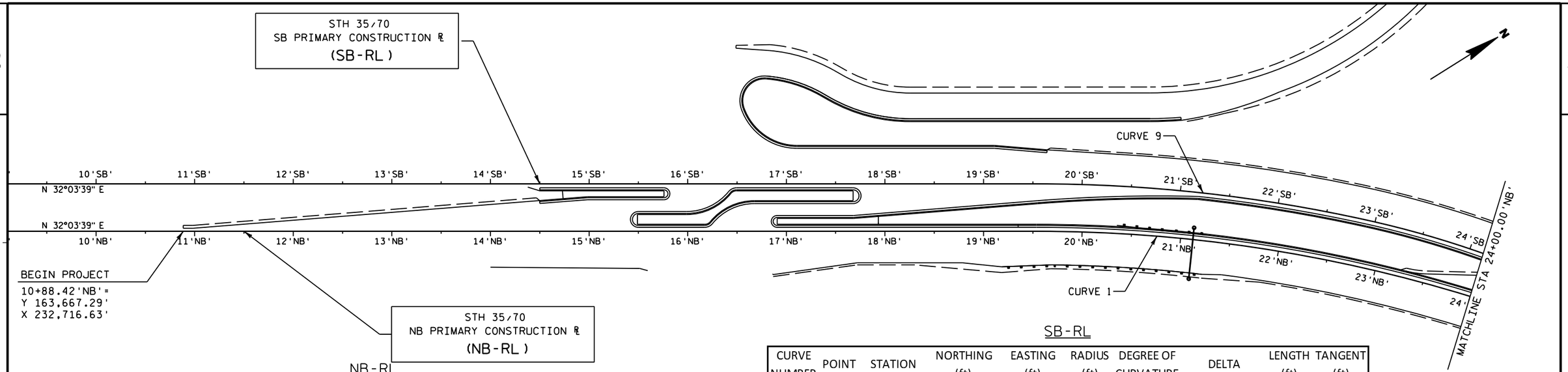
STAGE 4B TRAFFIC/CONTROL:

MAINTAIN TRAFFIC IN PERMANENT LOCATIONS. CONSTRUCT UNDER FLAGGING.

USE PERMANENT SIGNS AND MARKING UNLESS OTHERWISE NOTED. REFER TO PERMANENT SIGNING AND MARKING PLAN SHEETS.

MAINTAIN ACCESS TO ALL DRIVEWAYS

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 4B	SHEET 99	E



NB-RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	0+00.00	NB	162,744.86	232,138.87					
1	PI	22+00.46	NB	164,609.72	233,306.92	1500	3°49'11.0"	18°41'25.9" RT	489.32	246.85
	PC	19+53.61	NB	164,400.52	233,175.88					
	PCC	24+42.93	NB	164,765.90	233,498.08					
2	PI	25+57.19	NB	164,838.20	233,586.57	1000	5°43'46.5"	13°02'14.3" RT	227.54	114.27
	PCC	24+42.93	NB	164,765.90	233,498.08					
	PT	26+70.47	NB	164,888.67	233,689.08					
3	PI	29+16.32	NB	164,997.25	233,909.65	120	47°44'47.3"	44°24'44.7" RT	93.02	48.99
	PC	28+67.33	NB	164,975.62	233,865.70					
	PT	29+60.35	NB	164,981.95	233,956.19					
	PI	29+60.35	NB	164,981.95	233,956.19			64°15'4.68" LT		

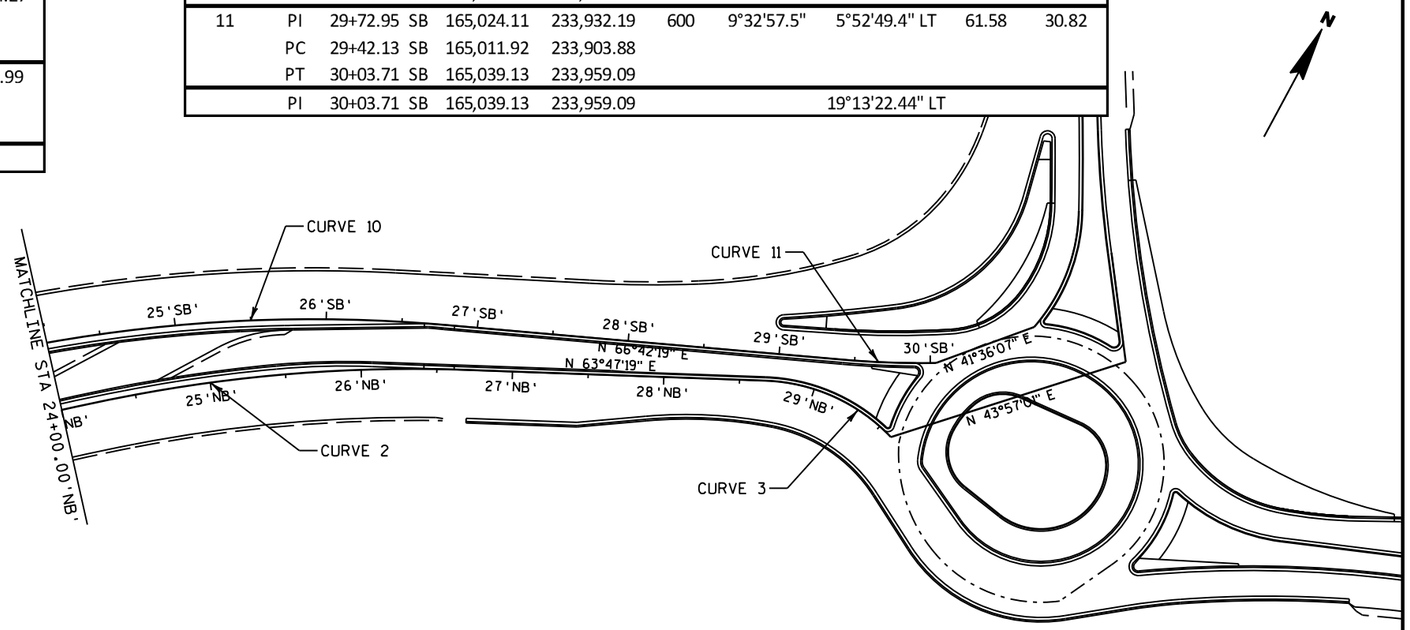
SB-RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	0+00.00	SB	162,770.34	232,098.19					
9	PI	21+23.64	SB	164,570.09	233,225.46	1548	3°42'04.6"	12°32'10.0" RT	338.7	170.03
	PC	19+53.61	SB	164,426.00	233,135.20					
	PCC	22+92.31	SB	164,691.16	233,344.84					
10	PI	24+87.67	SB	164,830.28	233,482.00	1000	5°43'46.5"	22°06'30.4" RT	385.87	195.36
	PCC	22+92.31	SB	164,691.16	233,344.84					
	PT	26+78.17	SB	164,907.53	233,661.44					
11	PI	29+72.95	SB	165,024.11	233,932.19	600	9°32'57.5"	5°52'49.4" LT	61.58	30.82
	PC	29+42.13	SB	165,011.92	233,903.88					
	PT	30+03.71	SB	165,039.13	233,959.09					
	PI	30+03.71	SB	165,039.13	233,959.09			19°13'22.44" LT		

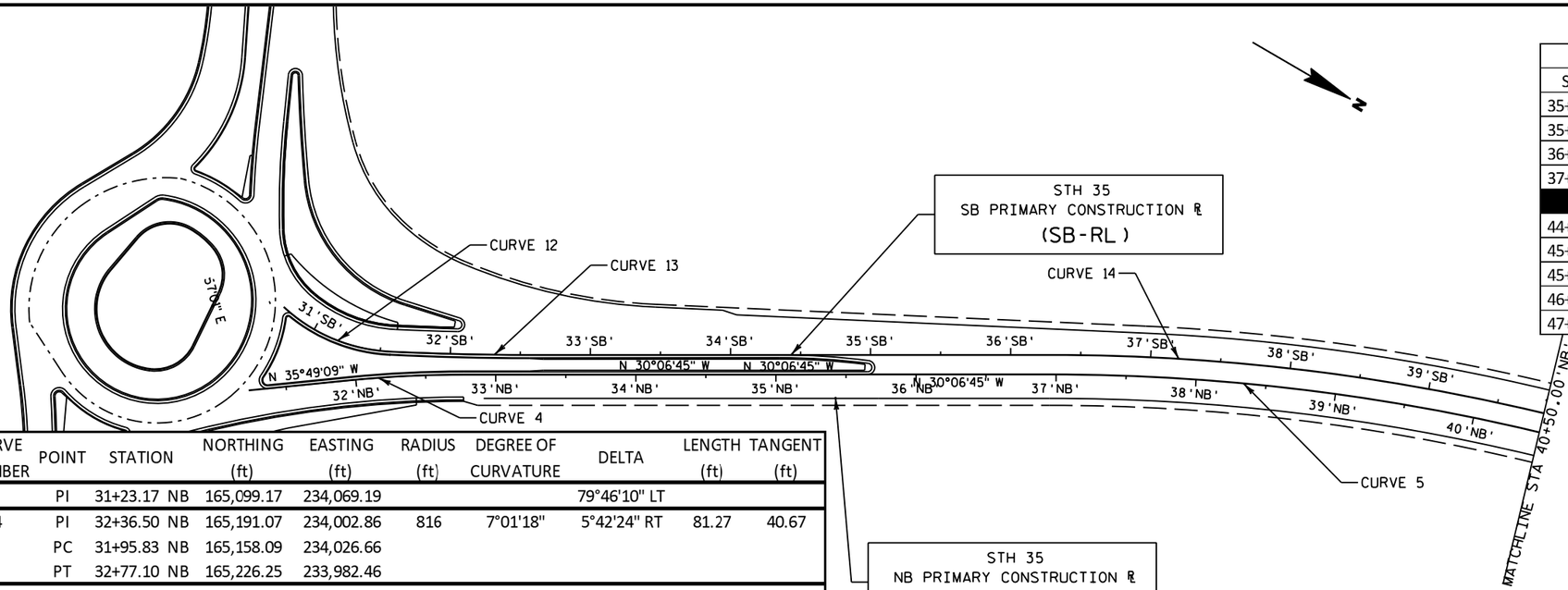
SUPERELEVATION TABLE

NB STH 35/70				
STATION		TYPE	LEFT	RIGHT
17+66.94	NB	END NORMAL CROWN	2.00%	-2.00%
18+46.94	NB	LEVEL CROWN	0.00%	-2.00%
19+26.94	NB	REVERSE CROWN	-2.00%	-2.00%
20+06.94	NB	BEGIN FULL SUPER	-4.00%	-4.00%
26+17.14	NB	END FULL SUPER	-4.00%	-4.00%
26+97.14	NB	NORMAL CROWN	-2.00%	-2.00%

SB STH 35/70				
STATION		TYPE	LEFT	RIGHT
17+66.94	SB	END NORMAL CROWN	-2.00%	2.00%
18+46.94	SB	LEVEL CROWN	0.00%	2.00%
19+26.94	SB	REVERSE CROWN	2.00%	2.00%
20+06.94	SB	BEGIN FULL SUPER	4.00%	4.00%
26+24.84	SB	END FULL SUPER	4.00%	4.00%
27+84.84	SB	LEVEL CROWN	0.00%	0.00%
28+64.84	SB	NORMAL CROWN	-2.00%	-2.00%



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	ALIGNMENT DETAILS - STH 35/70	SHEET 100	E



SUPERELEVATION TABLE

NB STH 35					
STATION		TYPE	SB LANE	MIDDLE	NB LANE
35+87.63	NB	END NORMAL CROWN	-2.00%	-2.00%	-2.00%
35+88.43	NB	LEVEL CROWN	-2.00%	0.00%	0.00%
36+68.43	NB	REVERSE CROWN	-2.00%	2.00%	2.00%
37+48.43	NB	BEGIN FULL SUPER	-4.00%	4.00%	4.00%
44+53.62	NB	END FULL SUPER	-4.00%	4.00%	4.00%
45+33.62	NB	REVERSE CROWN	-2.00%	2.00%	2.00%
45+33.64	NB	LEVEL CROWN	-2.00%	0.00%	0.00%
46+93.62	NB	NORMAL CROWN	-2.00%	-1.00%	-2.00%
47+09.62	NB	MATCH EXISTING STH 35			

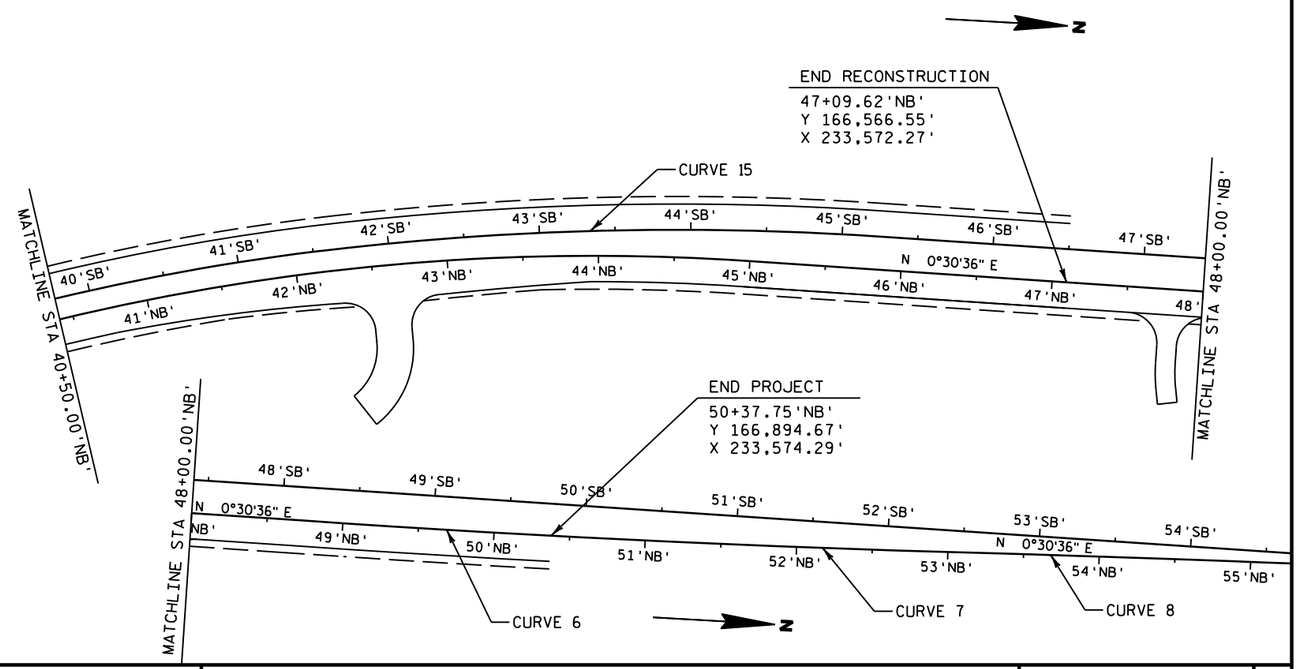
SB STH 35				
STATION		TYPE	LEFT	SHLD
34+40.86	SB	END NORMAL CROWN	-2.00%	-2.00%
34+98.59	SB	MATCH NB STH 35	0.56%	0.56%

NB-RL

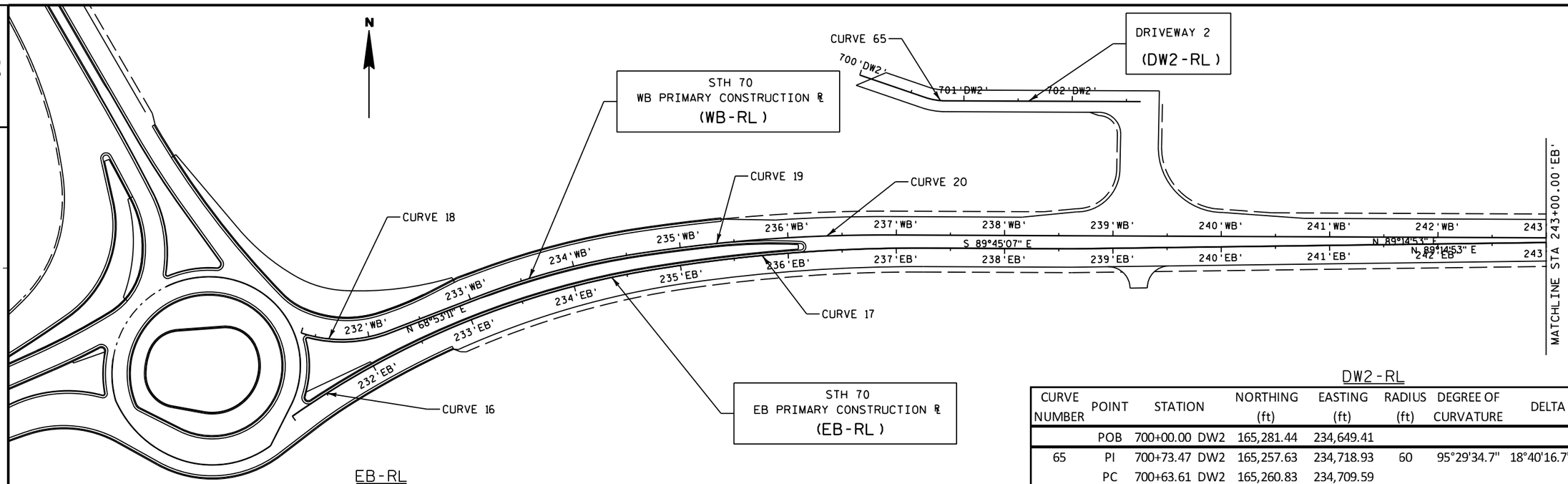
CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	PI	31+23.17 NB	165,099.17	234,069.19			79°46'10" LT		
4	PI	32+36.50 NB	165,191.07	234,002.86	816	7°01'18"	5°42'24" RT	81.27	40.67
	PC	31+95.83 NB	165,158.09	234,026.66					
	PT	32+77.10 NB	165,226.25	233,982.46					
	PI	35+65.53 NB	165,475.75	233,837.76					
5	PI	41+05.77 NB	165,943.08	233,566.72	1500	3°49'11"	30°37'22" RT	801.7	410.67
	PC	36+95.10 NB	165,587.83	233,772.75					
	PT	44+96.80 NB	166,353.74	233,570.37					
	PI	47+67.23 NB	166,624.16	233,572.78					
6	PI	50+24.78 NB	166,881.70	233,575.07	10300	0°33'23"	1°22'03" LT	245.85	122.93
	PC	49+01.85 NB	166,758.78	233,573.98					
	PCC	51+47.70 NB	167,004.62	233,573.23					
7	PI	52+25.15 NB	167,082.06	233,572.07	10300	0°33'23"	0°51'42" LT	154.88	77.44
	PCC	51+47.70 NB	167,004.62	233,573.23					
	PRC	53+02.59 NB	167,159.46	233,569.75					
8	PI	55+65.57 NB	167,422.33	233,561.86	19343.36	0°17'46"	1°33'28" RT	525.94	262.99
	PRC	53+02.59 NB	167,159.46	233,569.75					
	PT	58+28.53 NB	167,685.32	233,561.12					
	POE	61+42.64 NB	167,999.43	233,563.02					

SB-RL

CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	PC	30+72.93 SB	165,090.89	234,005.05			28°51'30.24" LT		
12	PI	31+16.61 SB	165,133.49	234,014.69	120	47°44'47"	40°00'00" LT	83.78	43.68
	PC	30+72.93 SB	165,090.89	234,005.05					
	PCC	31+56.70 SB	165,172.32	233,994.68					
13	PI	32+06.57 SB	165,216.64	233,971.85	2000	2°51'53"	2°51'23" LT	99.7	49.86
	PCC	31+56.70 SB	165,172.32	233,994.68					
	PT	32+56.41 SB	165,259.77	233,946.83					
14	PI	38+97.38 SB	165,814.25	233,625.25	1514	3°47'04"	20°12'45" RT	534.1	269.85
	PC	36+27.53 SB	165,580.81	233,760.64					
	PCC	41+61.63 SB	166,080.08	233,578.86					
15	PI	43+43.82 SB	166,259.56	233,547.53	2000	2°51'53"	10°24'37" RT	363.39	182.2
	PCC	41+61.63 SB	166,080.08	233,578.86					
	PT	45+25.02 SB	166,441.75	233,549.15					
	POE	60+82.75 SB	167,999.43	233,563.02					



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	ALIGNMENT DETAILS - STH 35	SHEET 101	E



EB-RL

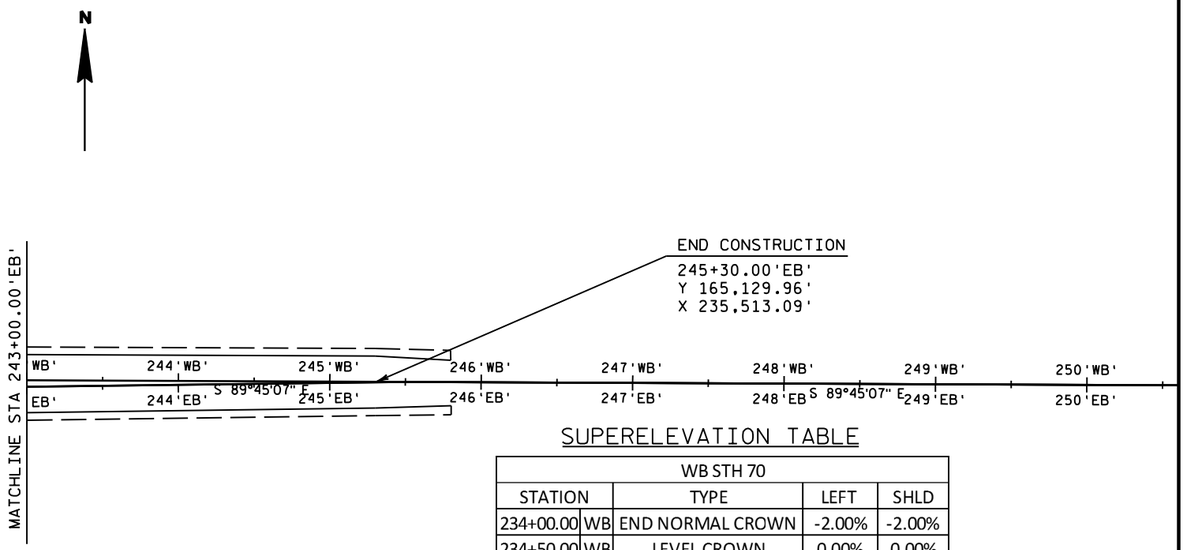
CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	231+11.98 EB	164,966.80	234,125.68					
16	PI	232+92.99 EB	165,070.80	234,273.82	800	7°09'43"	25°29'53" RT	356.02	181.01
	PC	231+11.98 EB	164,966.80	234,125.68					
	PCC	234+68.00 EB	165,100.91	234,452.31					
17	PI	235+96.89 EB	165,122.35	234,579.40	1500	3°49'11"	9°49'20" RT	257.14	128.89
	PCC	234+68.00 EB	165,100.91	234,452.31					
	PT	237+25.14 EB	165,121.79	234,708.29					
	PI	238+61.91 EB	165,121.20	234,845.05			1°00'00" LT		
	PI	245+49.49 EB	165,130.22	235,532.58			1°00'00" RT		
	PI	252+16.20 EB	165,127.33	236,199.28					
	POE	258+53.68 EB	165,124.82	236,836.75					

WB-RL

CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	231+36.57 WB	165,043.60	234,133.69					
18	PI	231+79.63 WB	165,030.03	234,174.56	120	47°44'47.3"	39°28'48.5" LT	82.69	43.06
	PC	231+36.57 WB	165,043.60	234,133.69					
	PT	232+19.26 WB	165,045.54	234,214.73					
19	PI	233+85.34 WB	165,105.37	234,369.67	700	8°11'06.4"	12°27'40.2" RT	152.24	76.42
	PC	233+08.92 WB	165,077.84	234,298.37					
	PCC	234+61.16 WB	165,116.87	234,445.22					
20	PI	235+77.90 WB	165,134.43	234,560.63	1500	3°49'11.0"	8°54'02.1" RT	233.02	116.74
	PCC	234+61.16 WB	165,116.87	234,445.22					
	PT	236+94.18 WB	165,133.92	234,677.38					
	PI	252+16.10 WB	165,127.33	236,199.28					
	POE	258+53.57 WB	165,124.82	236,836.75					

DW2-RL

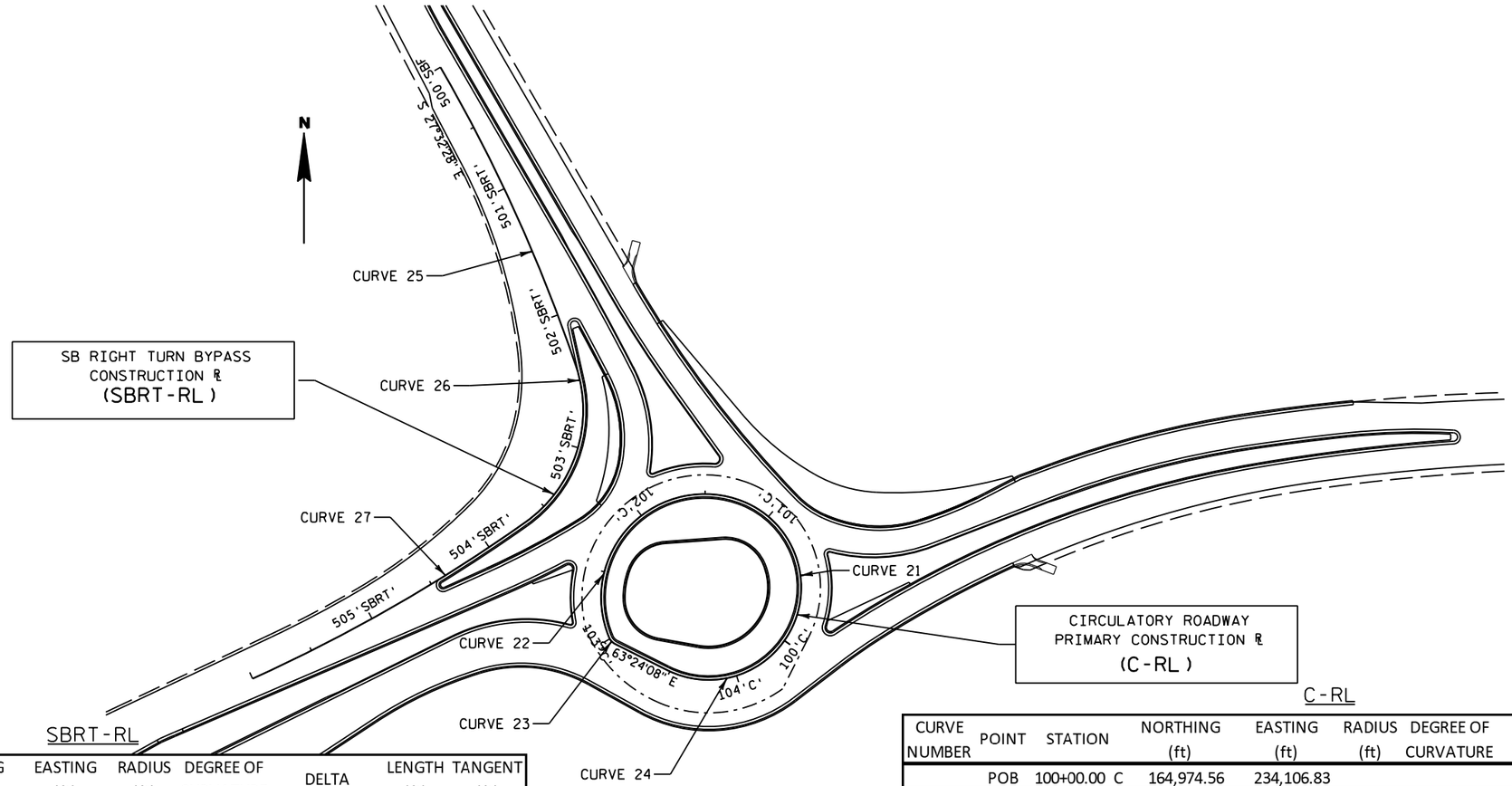
CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	700+00.00 DW2	165,281.44	234,649.41					
65	PI	700+73.47 DW2	165,257.63	234,718.93	60	95°29'34.7"	18°40'16.7" LT	19.55	9.86
	PC	700+63.61 DW2	165,260.83	234,709.59					
	PT	700+83.16 DW2	165,257.60	234,728.79					
	POE	702+63.11 DW2	165,256.87	234,908.73					



SUPERELEVATION TABLE

WB STH 70				
STATION		TYPE	LEFT	SHLD
234+00.00	WB	END NORMAL CROWN	-2.00%	-2.00%
234+50.00	WB	LEVEL CROWN	0.00%	0.00%
235+00.00	WB	REVERSE CROWN	2.00%	2.00%
236+00.00	WB	END REVERSE CROWN	2.00%	2.00%
236+50.00	WB	LEVEL CROWN	0.00%	0.00%
237+00.00	WB	MATCH EXIST STH 70		-2.00%
237+25.00	WB	MATCH EXIST STH 70		-4.00%

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	ALIGNMENT DETAILS - STH 70/DRIVEWAY 2	SHEET 102	E



SBRT-RL

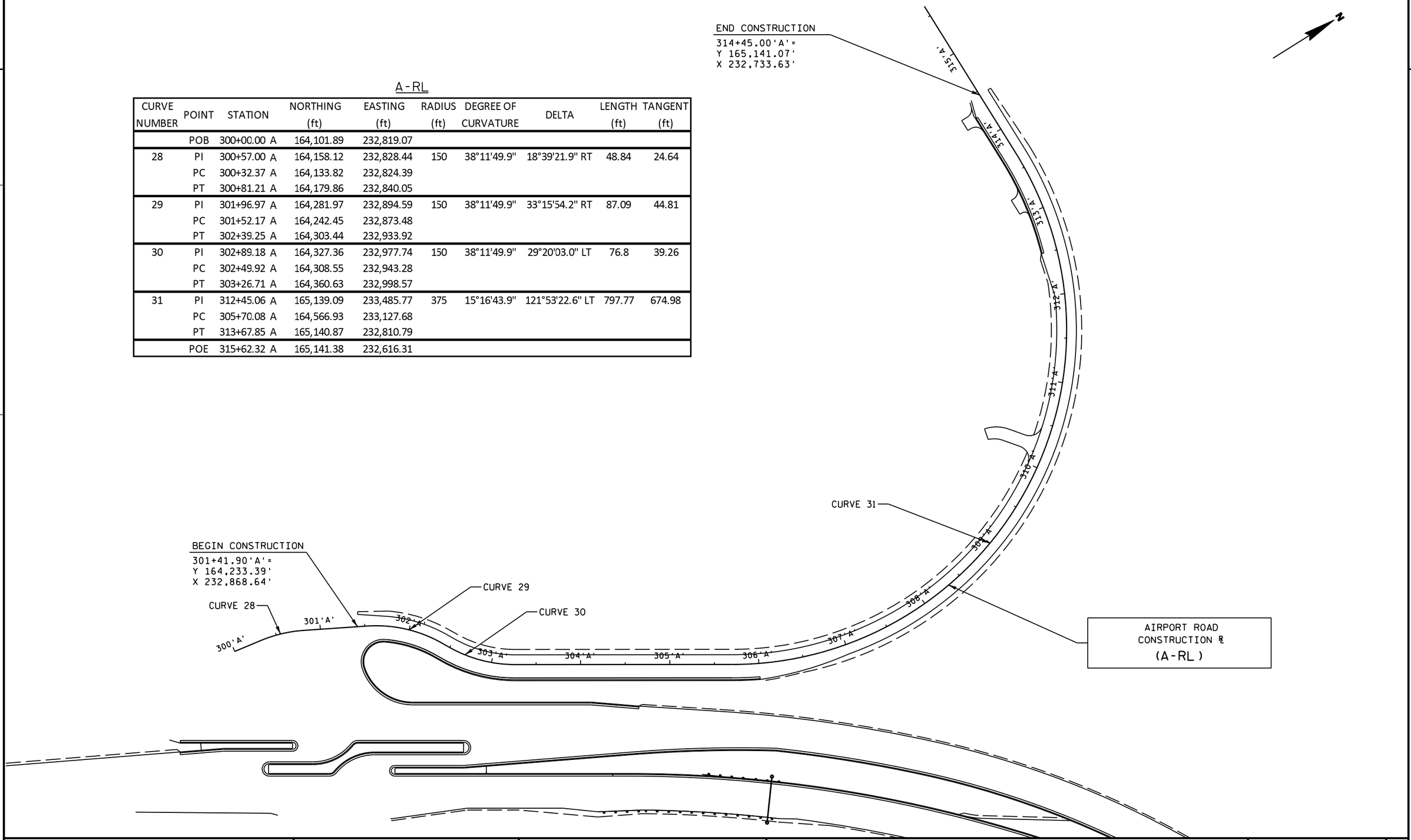
CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	500+00.00 SBRT	165,392.54	233,855.96					
25	PI	501+20.32 SBRT	165,288.46	233,916.32	1200	4°46'28.7"	11°27'05.7" RT	239.84	120.32
	PC	500+00.00 SBRT	165,392.54	233,855.96					
	PCC	502+39.84 SBRT	165,174.47	233,954.82					
26	PI	503+14.34 SBRT	165,103.89	233,978.66	100	57°17'44.8"	73°22'03.5" RT	128.05	74.49
	PCC	502+39.84 SBRT	165,174.47	233,954.82					
	PCC	503+67.89 SBRT	165,060.85	233,917.86					
27	PI	504+83.10 SBRT	164,994.28	233,823.82	1200	4°46'28.7"	10°58'05.0" RT	229.71	115.21
	PCC	503+67.89 SBRT	165,060.85	233,917.86					
	PT	505+97.61 SBRT	164,946.83	233,718.84					
	POE	505+97.61 SBRT	164,946.83	233,718.84					

C-RL

CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	100+00.00 C	164,974.56	234,106.83					
21	PI	100+85.41 C	165,044.46	234,155.91	67.5	84°52'57.5"	103°21'50.9" LT	121.77	85.41
	PC	100+00.00 C	164,974.56	234,106.83					
	PCC	101+21.77 C	165,076.06	234,076.56					
22	PI	103+00.68 C	165,142.24	233,910.34	75.5	75°53'18.4"	134°14'24.3" LT	176.89	178.91
	PCC	101+21.77 C	165,076.06	234,076.56					
	PCC	102+98.66 C	164,976.98	233,978.89					
23	PI	103+02.39 C	164,973.54	233,980.32	10	572°57'28.1"	40°52'20.5" LT	7.13	3.73
	PCC	102+98.66 C	164,976.98	233,978.89					
	PT	103+05.80 C	164,971.87	233,983.65					
24	PI	104+06.16 C	164,926.94	234,073.40	67.5	84°52'57.5"	81°31'24.3" LT	96.04	58.19
	PC	103+47.98 C	164,952.99	234,021.37					
	PT	104+44.02 C	164,974.56	234,106.83					
	POE	104+44.02 C	164,974.56	234,106.83					

A - RL

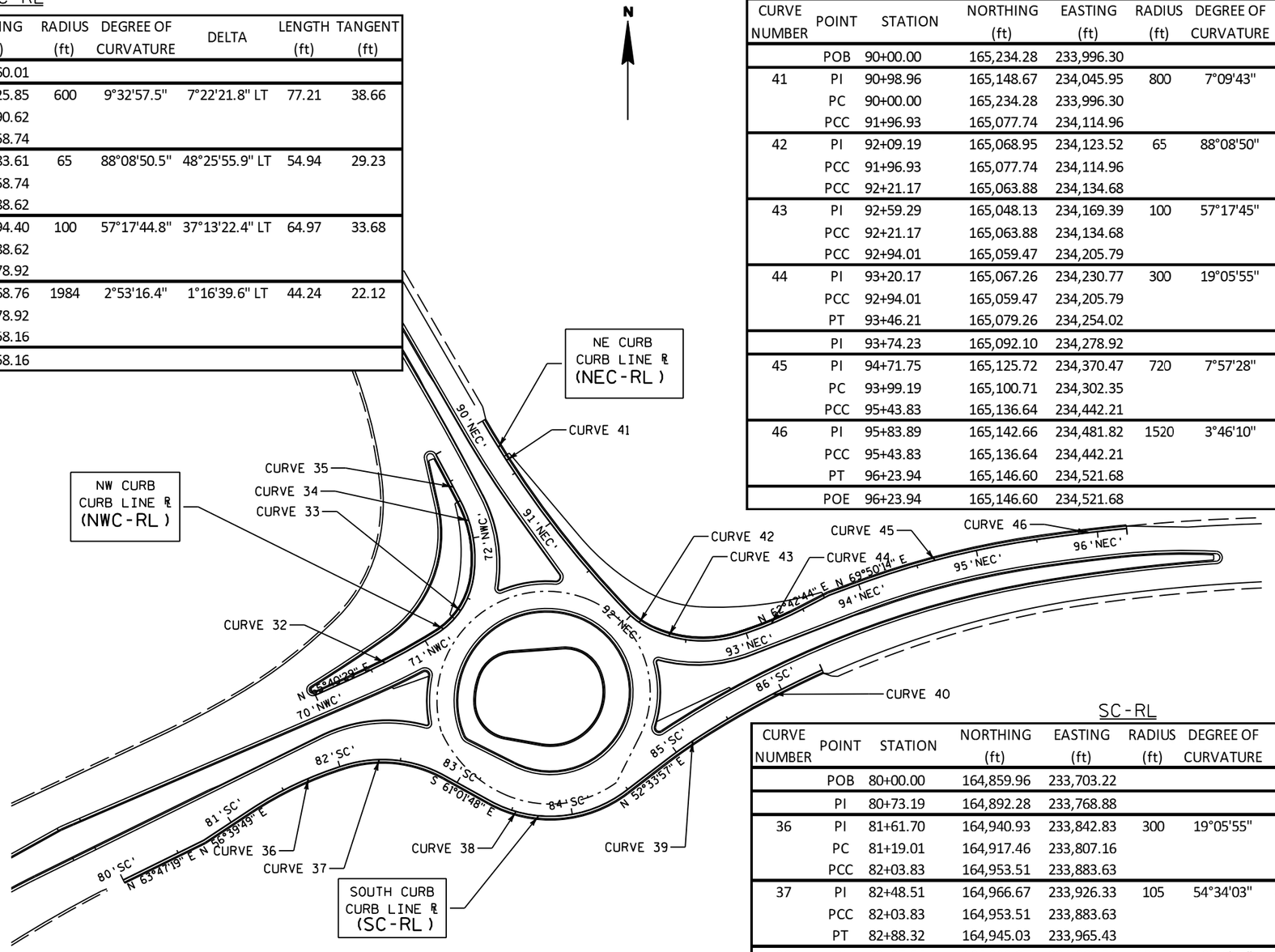
CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	300+00.00 A	164,101.89	232,819.07					
28	PI	300+57.00 A	164,158.12	232,828.44	150	38°11'49.9"	18°39'21.9" RT	48.84	24.64
	PC	300+32.37 A	164,133.82	232,824.39					
	PT	300+81.21 A	164,179.86	232,840.05					
29	PI	301+96.97 A	164,281.97	232,894.59	150	38°11'49.9"	33°15'54.2" RT	87.09	44.81
	PC	301+52.17 A	164,242.45	232,873.48					
	PT	302+39.25 A	164,303.44	232,933.92					
30	PI	302+89.18 A	164,327.36	232,977.74	150	38°11'49.9"	29°20'03.0" LT	76.8	39.26
	PC	302+49.92 A	164,308.55	232,943.28					
	PT	303+26.71 A	164,360.63	232,998.57					
31	PI	312+45.06 A	165,139.09	233,485.77	375	15°16'43.9"	121°53'22.6" LT	797.77	674.98
	PC	305+70.08 A	164,566.93	233,127.68					
	PT	313+67.85 A	165,140.87	232,810.79					
	POE	315+62.32 A	165,141.38	232,616.31					



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	ALIGNMENT DETAILS	SHEET 104	E

NWC - RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	70+00.00	NWC	165,010.64	233,860.01					
32	PI	70+72.26	NWC	165,040.41	233,925.85	600	9°32'57.5"	7°22'21.8" LT	77.21	38.66
	PC	70+33.60	NWC	165,024.48	233,890.62					
	PCC	71+10.81	NWC	165,060.72	233,958.74					
33	PI	71+40.04	NWC	165,076.08	233,983.61	65	88°08'50.5"	48°25'55.9" LT	54.94	29.23
	PCC	71+10.81	NWC	165,060.72	233,958.74					
	PCC	71+65.76	NWC	165,104.88	233,988.62					
34	PI	71+99.43	NWC	165,138.06	233,994.40	100	57°17'44.8"	37°13'22.4" LT	64.97	33.68
	PCC	71+65.76	NWC	165,104.88	233,988.62					
	PCC	72+30.72	NWC	165,167.97	233,978.92					
35	PI	72+52.84	NWC	165,187.62	233,968.76	1984	2°53'16.4"	1°16'39.6" LT	44.24	22.12
	PCC	72+30.72	NWC	165,167.97	233,978.92					
	PT	72+74.96	NWC	165,207.03	233,958.16					
	POB	72+74.96	NWC	165,207.03	233,958.16					



NEC - RL

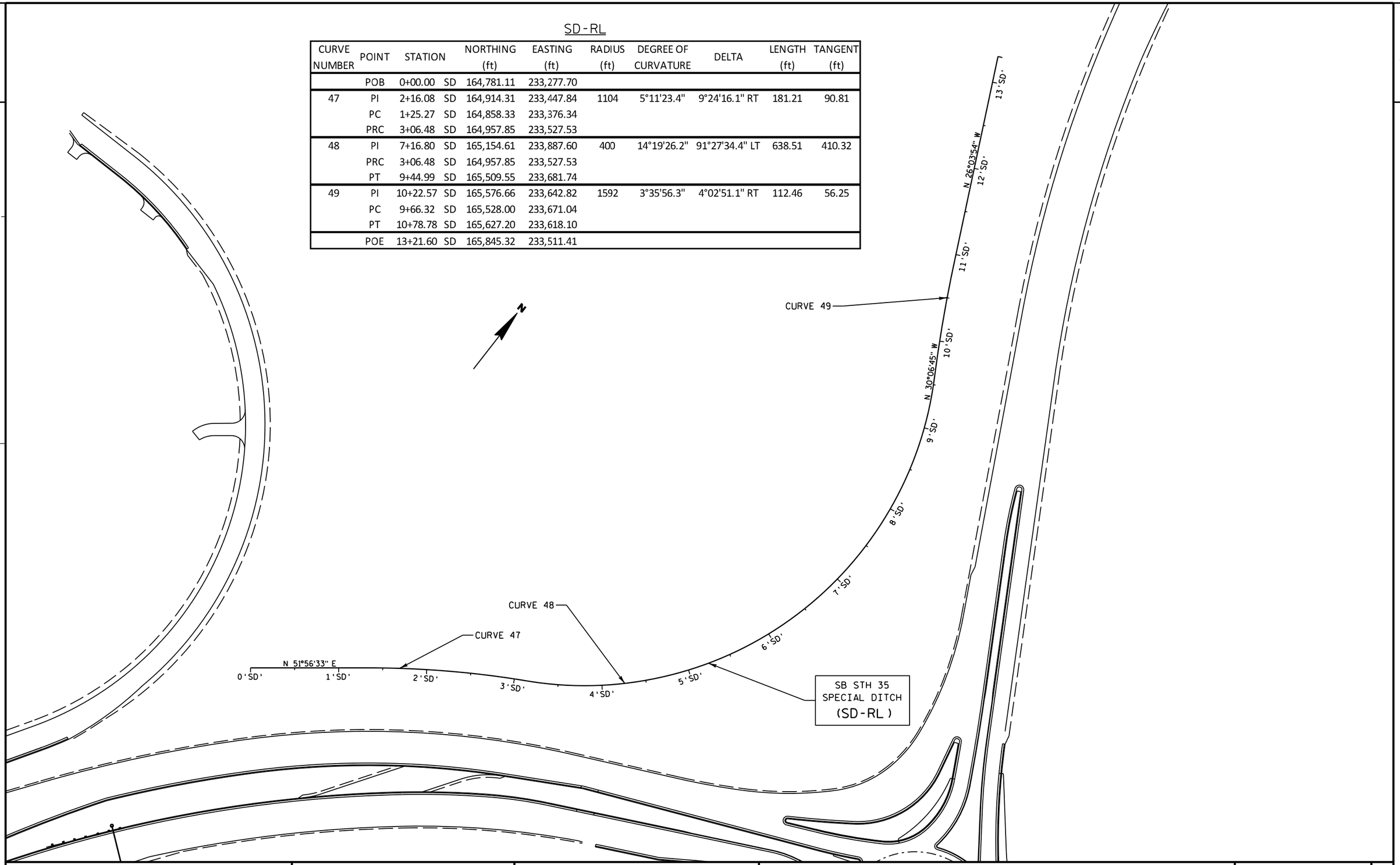
CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	90+00.00	165,234.28	233,996.30					
41	PI	90+98.96	165,148.67	234,045.95	800	7°09'43"	14°06'14" LT	196.93	98.96
	PC	90+00.00	165,234.28	233,996.30					
	PCC	91+96.93	165,077.74	234,114.96					
42	PI	92+09.19	165,068.95	234,123.52	65	88°08'50"	21°22'05" LT	24.24	12.26
	PCC	91+96.93	165,077.74	234,114.96					
	PCC	92+21.17	165,063.88	234,134.68					
43	PI	92+59.29	165,048.13	234,169.39	100	57°17'45"	41°44'04" LT	72.84	38.12
	PCC	92+21.17	165,063.88	234,134.68					
	PCC	92+94.01	165,059.47	234,205.79					
44	PI	93+20.17	165,067.26	234,230.77	300	19°05'55"	9°58'09" LT	52.2	26.16
	PCC	92+94.01	165,059.47	234,205.79					
	PT	93+46.21	165,079.26	234,254.02					
	PI	93+74.23	165,092.10	234,278.92			7°07'30" RT		
45	PI	94+71.75	165,125.72	234,370.47	720	7°57'28"	11°30'37" RT	144.64	72.57
	PC	93+99.19	165,100.71	234,302.35					
	PCC	95+43.83	165,136.64	234,442.21					
46	PI	95+83.89	165,142.66	234,481.82	1520	3°46'10"	3°01'10" RT	80.11	40.06
	PCC	95+43.83	165,136.64	234,442.21					
	PT	96+23.94	165,146.60	234,521.68					
	POE	96+23.94	165,146.60	234,521.68					

SC - RL

CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	80+00.00	164,859.96	233,703.22					
	PI	80+73.19	164,892.28	233,768.88			7°07'30" LT		
36	PI	81+61.70	164,940.93	233,842.83	300	19°05'55"	16°12'00" RT	84.82	42.7
	PC	81+19.01	164,917.46	233,807.16					
	PCC	82+03.83	164,953.51	233,883.63					
37	PI	82+48.51	164,966.67	233,926.33	105	54°34'03"	46°06'24" RT	84.49	44.69
	PCC	82+03.83	164,953.51	233,883.63					
	PT	82+88.32	164,945.03	233,965.43					
38	PI	83+97.04	164,892.37	234,060.54	101.5	56°26'57"	66°24'16" LT	117.64	66.43
	PC	83+30.62	164,924.54	234,002.43					
	PT	84+48.25	164,932.75	234,113.29					
39	PI	85+07.36	164,968.68	234,160.22	400	14°19'26"	5°00'12" RT	34.93	17.48
	PC	84+89.88	164,958.05	234,146.34					
	PCC	85+24.81	164,978.05	234,174.97					
40	PI	85+80.88	165,008.11	234,222.29	800	7°09'43"	8°01'03" RT	111.95	56.06
	PCC	85+24.81	164,978.05	234,174.97					
	PT	86+36.76	165,031.29	234,273.34					
	POE	86+36.76	165,031.29	234,273.34					

SD - RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	0+00.00	SD	164,781.11	233,277.70					
47	PI	2+16.08	SD	164,914.31	233,447.84	1104	5°11'23.4"	9°24'16.1" RT	181.21	90.81
	PC	1+25.27	SD	164,858.33	233,376.34					
	PRC	3+06.48	SD	164,957.85	233,527.53					
48	PI	7+16.80	SD	165,154.61	233,887.60	400	14°19'26.2"	91°27'34.4" LT	638.51	410.32
	PRC	3+06.48	SD	164,957.85	233,527.53					
	PT	9+44.99	SD	165,509.55	233,681.74					
49	PI	10+22.57	SD	165,576.66	233,642.82	1592	3°35'56.3"	4°02'51.1" RT	112.46	56.25
	PC	9+66.32	SD	165,528.00	233,671.04					
	PT	10+78.78	SD	165,627.20	233,618.10					
	POE	13+21.60	SD	165,845.32	233,511.41					



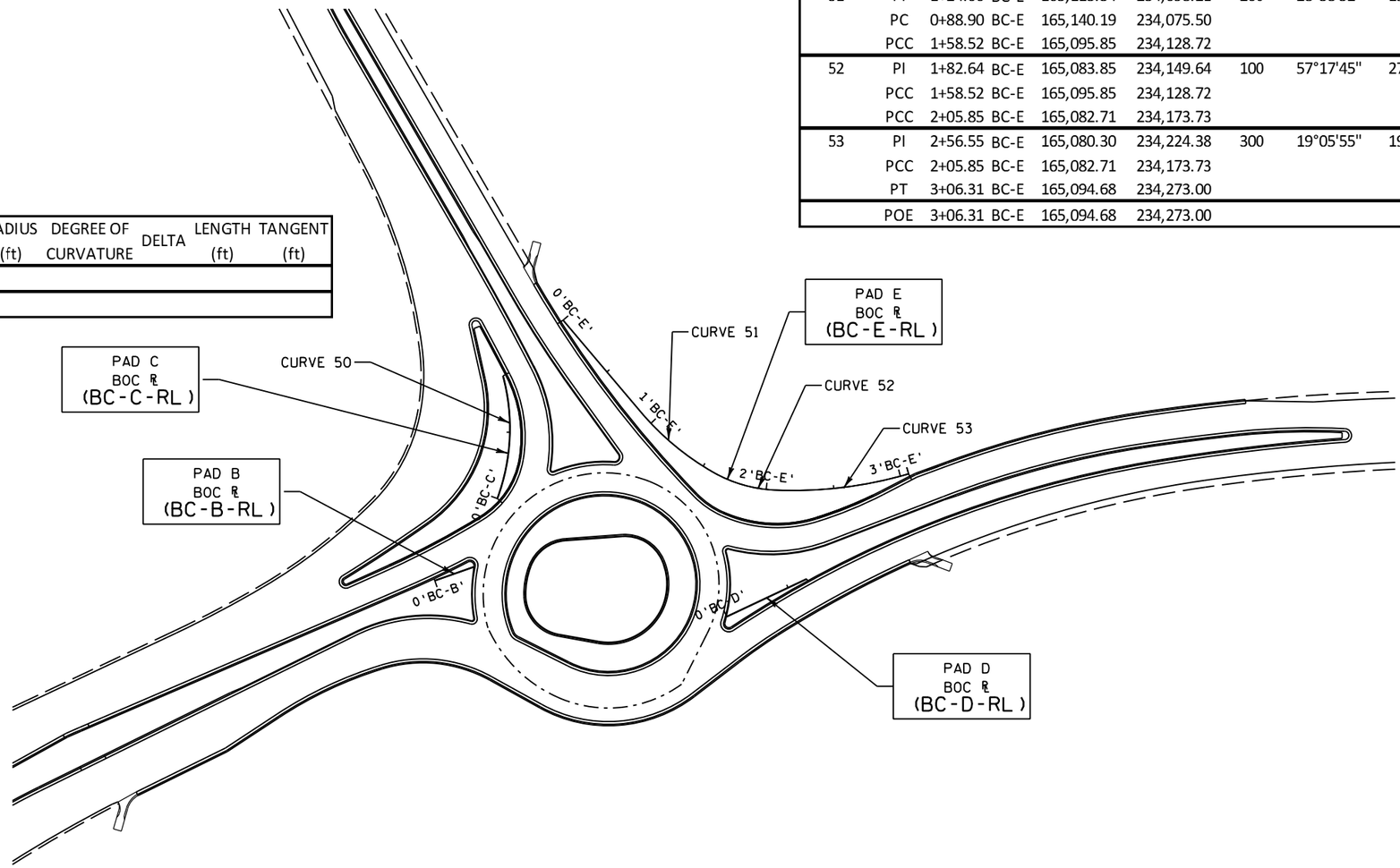
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	ALIGNMENT DETAILS - SPECIAL DITCH	SHEET 106	E

BC-C-RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
50	PI	0+47.51	BC-C	165,121.01	233,986.08	150	38°11'49.9"	35°08'51.3" LT	92.02	47.51
	PC	0+00.00	BC-C	165,076.43	233,969.67					
	PT	0+92.02	BC-C	165,166.91	233,973.84					

BC-B-RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	0+00.00	BC-B	165,015.81	233,923.50					
	POE	0+30.43	BC-B	165,025.95	233,952.19					

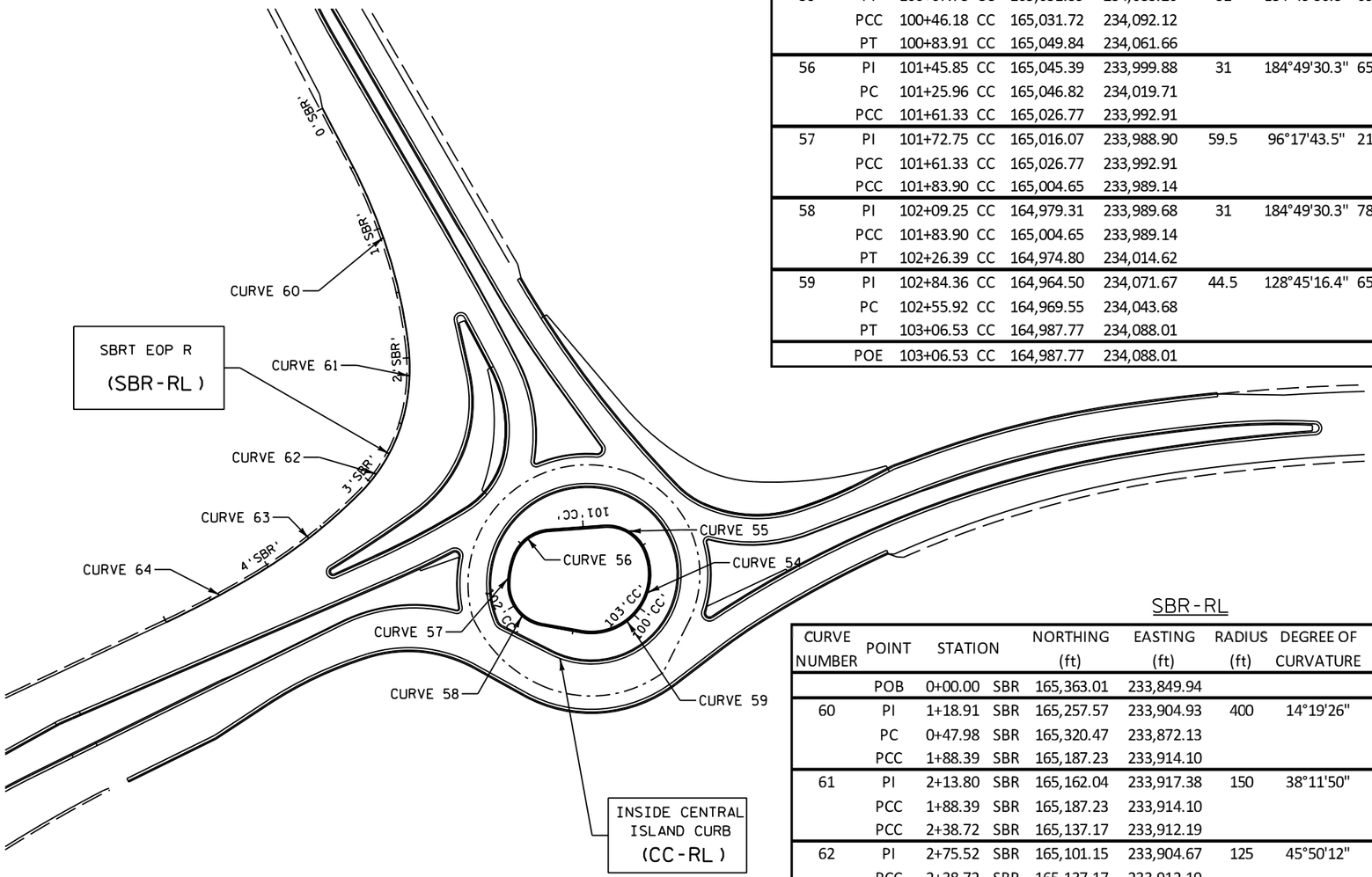


BC-E-RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	0+00.00	BC-E	165,208.07	234,018.10					
51	PI	1+24.06	BC-E	165,113.34	234,098.21	200	28°38'52"	19°56'47" LT	69.63	35.17
	PC	0+88.90	BC-E	165,140.19	234,075.50					
	PCC	1+58.52	BC-E	165,095.85	234,128.72					
52	PI	1+82.64	BC-E	165,083.85	234,149.64	100	57°17'45"	27°06'53" LT	47.32	24.11
	PCC	1+58.52	BC-E	165,095.85	234,128.72					
	PCC	2+05.85	BC-E	165,082.71	234,173.73					
53	PI	2+56.55	BC-E	165,080.30	234,224.38	300	19°05'55"	19°11'14" LT	100.46	50.71
	PCC	2+05.85	BC-E	165,082.71	234,173.73					
	PT	3+06.31	BC-E	165,094.68	234,273.00					
	POE	3+06.31	BC-E	165,094.68	234,273.00					

BC-D-RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	0+00.00	BC-D	164,989.30	234,138.84					
	POE	0+65.21	BC-D	165,017.07	234,197.84					



CC-RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	100+00.00	CC	164,987.77	234,088.01					
54	PI	100+25.41	CC	165,008.57	234,102.61	44.5	128°45'16.4"	59°27'36.9" LT	46.18	25.41
	PC	100+00.00	CC	164,987.77	234,088.01					
	PCC	100+46.18	CC	165,031.72	234,092.12					
55	PI	100+67.78	CC	165,051.39	234,083.20	31	184°49'30.3"	69°43'38.9" LT	37.73	21.6
	PCC	100+46.18	CC	165,031.72	234,092.12					
	PT	100+83.91	CC	165,049.84	234,061.66					
56	PI	101+45.85	CC	165,045.39	233,999.88	31	184°49'30.3"	65°22'03.2" LT	35.37	19.89
	PC	101+25.96	CC	165,046.82	234,019.71					
	PCC	101+61.33	CC	165,026.77	233,992.91					
57	PI	101+72.75	CC	165,016.07	233,988.90	59.5	96°17'43.5"	21°43'51.0" LT	22.57	11.42
	PCC	101+61.33	CC	165,026.77	233,992.91					
	PCC	101+83.90	CC	165,004.65	233,989.14					
58	PI	102+09.25	CC	164,979.31	233,989.68	31	184°49'30.3"	78°32'44.6" LT	42.5	25.35
	PCC	101+83.90	CC	165,004.65	233,989.14					
	PT	102+26.39	CC	164,974.80	234,014.62					
59	PI	102+84.36	CC	164,964.50	234,071.67	44.5	128°45'16.4"	65°10'05.6" LT	50.61	28.44
	PC	102+55.92	CC	164,969.55	234,043.68					
	PT	103+06.53	CC	164,987.77	234,088.01					
	POE	103+06.53	CC	164,987.77	234,088.01					

SBR-RL

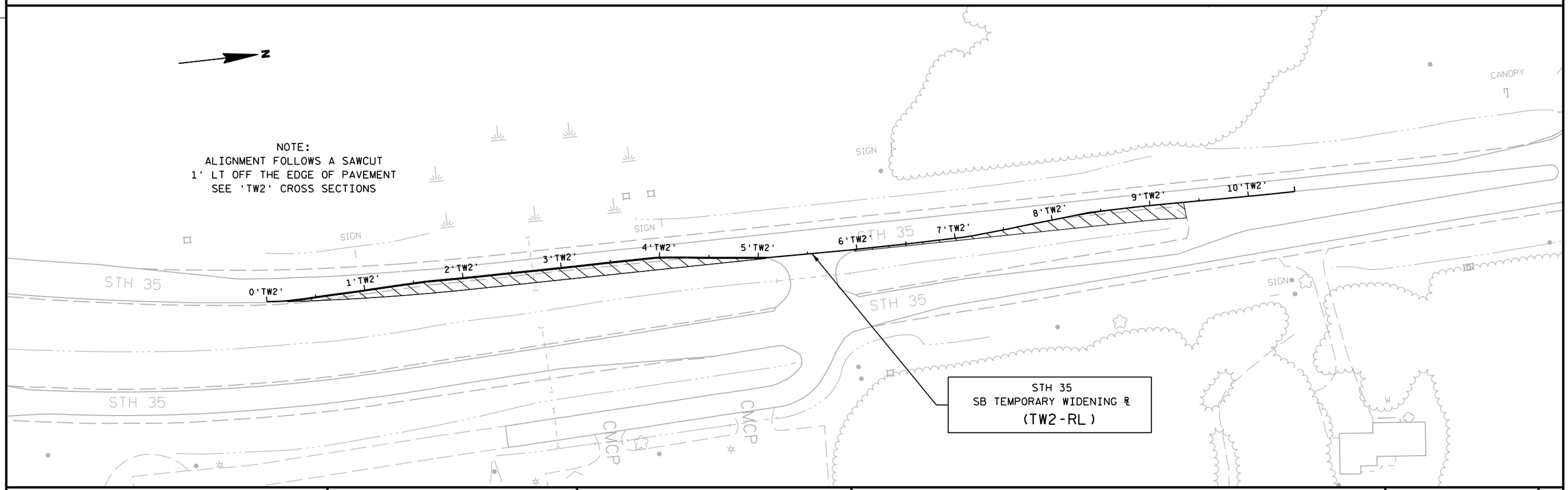
CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	0+00.00	SBR	165,363.01	233,849.94					
60	PI	1+18.91	SBR	165,257.57	233,904.93	400	14°19'26"	20°06'46" RT	140.41	70.94
	PC	0+47.98	SBR	165,320.47	233,872.13					
	PCC	1+88.39	SBR	165,187.23	233,914.10					
61	PI	2+13.80	SBR	165,162.04	233,917.38	150	38°11'50"	19°13'32" RT	50.33	25.4
	PCC	1+88.39	SBR	165,187.23	233,914.10					
	PCC	2+38.72	SBR	165,137.17	233,912.19					
62	PI	2+75.52	SBR	165,101.15	233,904.67	125	45°50'12"	32°48'23" RT	71.57	36.8
	PCC	2+38.72	SBR	165,137.17	233,912.19					
	PCC	3+10.30	SBR	165,074.95	233,878.83					
63	PI	3+62.85	SBR	165,037.53	233,841.92	400	14°19'26"	14°58'17" RT	104.52	52.56
	PCC	3+10.30	SBR	165,074.95	233,878.83					
	PCC	4+14.81	SBR	165,010.91	233,796.60					
64	PI	4+50.96	SBR	164,992.61	233,765.43	800	7°09'43"	5°10'25" RT	72.24	36.14
	PCC	4+14.81	SBR	165,010.91	233,796.60					
	PT	4+87.05	SBR	164,977.19	233,732.74					
	POE	4+87.05	SBR	164,977.19	233,732.74					

2

2

TW2 - RL

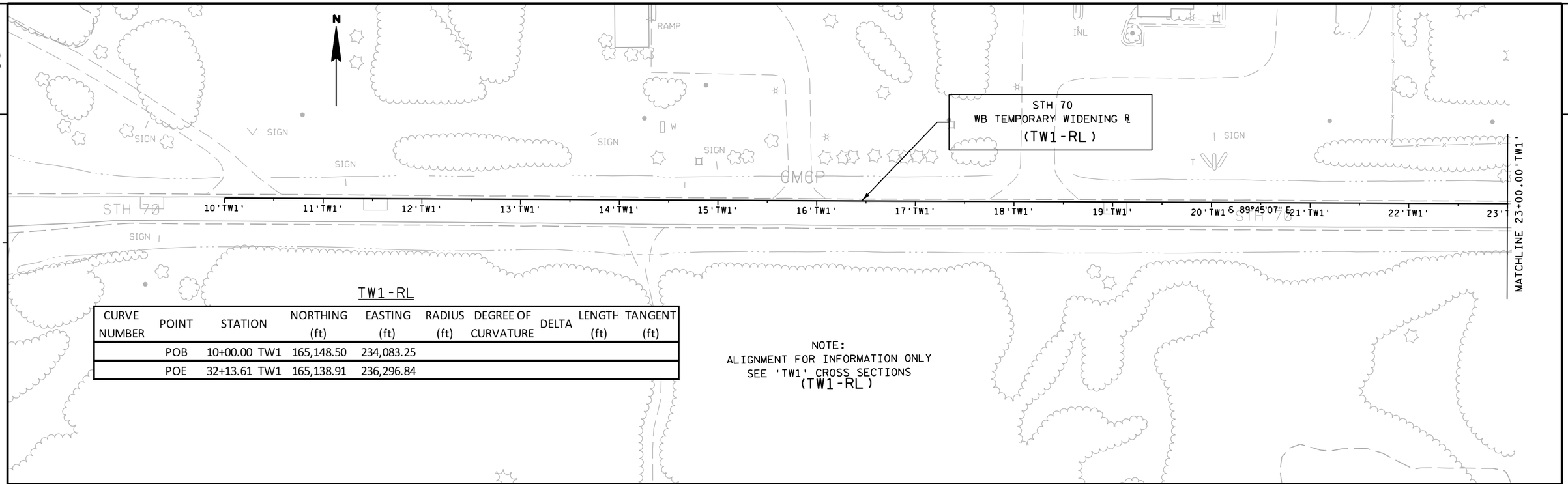
CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	0+00.00	TW2	165,575.30	233,544.31					
	POE	10+47.25	TW2	166,621.19	233,551.01					



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	ALIGNMENT DETAILS - STH 35 TEMPORARY ALIGNMENT	SHEET	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\027210_ad.dgn PLOT DATE : 4/29/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

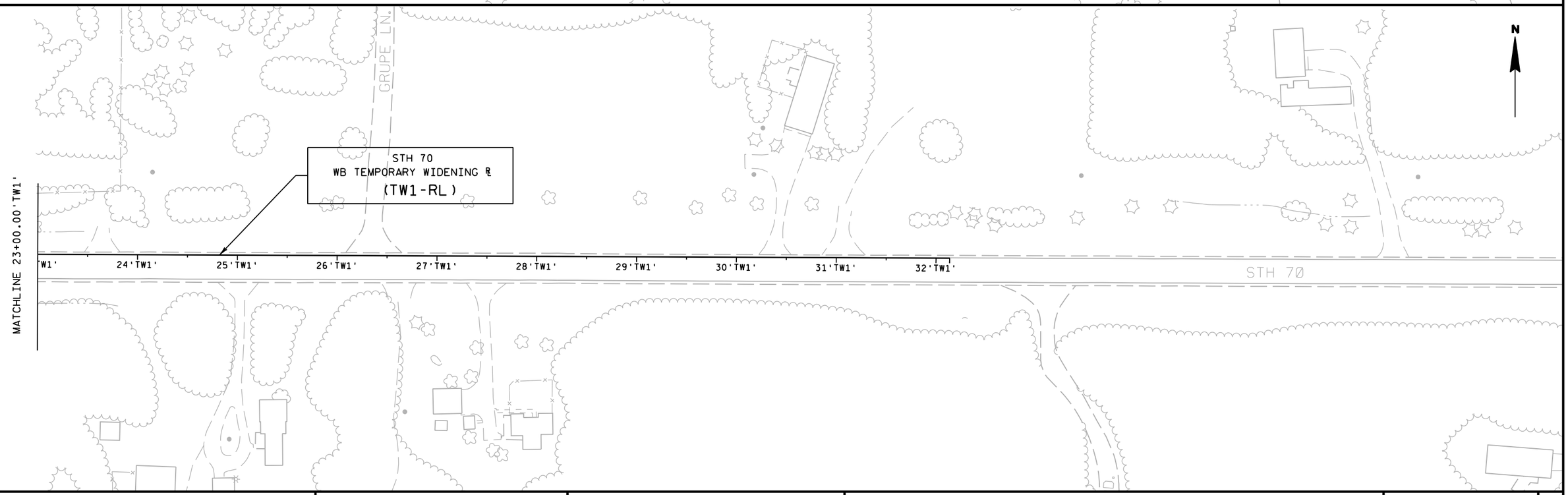
2



TW1-RL

CURVE NUMBER	POINT	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	10+00.00 TW1	165,148.50	234,083.25					
	POE	32+13.61 TW1	165,138.91	236,296.84					

NOTE:
ALIGNMENT FOR INFORMATION ONLY
SEE 'TW1' CROSS SECTIONS
(TW1-RL)



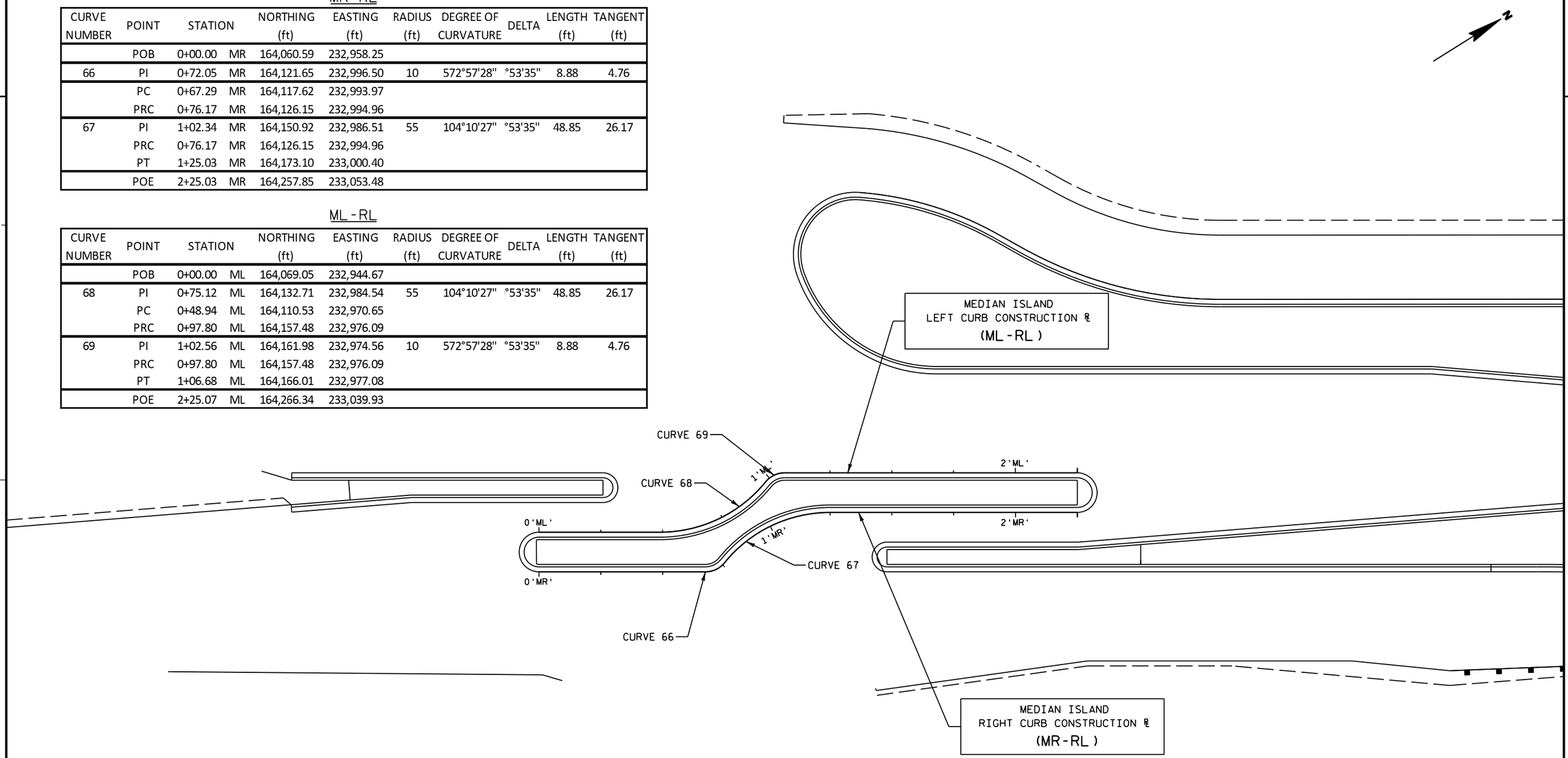
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	ALIGNMENT DETAILS - STH 70 TEMPORARY WIDENINGS	SHEET 110	E

MR - RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	0+00.00	MR	164,060.59	232,958.25					
66	PI	0+72.05	MR	164,121.65	232,996.50	10	572°57'28"	°53'35"	8.88	4.76
	PC	0+67.29	MR	164,117.62	232,993.97					
	PRC	0+76.17	MR	164,126.15	232,994.96					
67	PI	1+02.34	MR	164,150.92	232,986.51	55	104°10'27"	°53'35"	48.85	26.17
	PRC	0+76.17	MR	164,126.15	232,994.96					
	PT	1+25.03	MR	164,173.10	233,000.40					
	POE	2+25.03	MR	164,257.85	233,053.48					

ML - RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	0+00.00	ML	164,069.05	232,944.67					
68	PI	0+75.12	ML	164,132.71	232,984.54	55	104°10'27"	°53'35"	48.85	26.17
	PC	0+48.94	ML	164,110.53	232,970.65					
	PRC	0+97.80	ML	164,157.48	232,976.09					
69	PI	1+02.56	ML	164,161.98	232,974.56	10	572°57'28"	°53'35"	8.88	4.76
	PRC	0+97.80	ML	164,157.48	232,976.09					
	PT	1+06.68	ML	164,166.01	232,977.08					
	POE	2+25.07	ML	164,266.34	233,039.93					



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	ALIGNMENT DETAILS - STH 35/70 MEDIAN ISLAND	SHEET	E

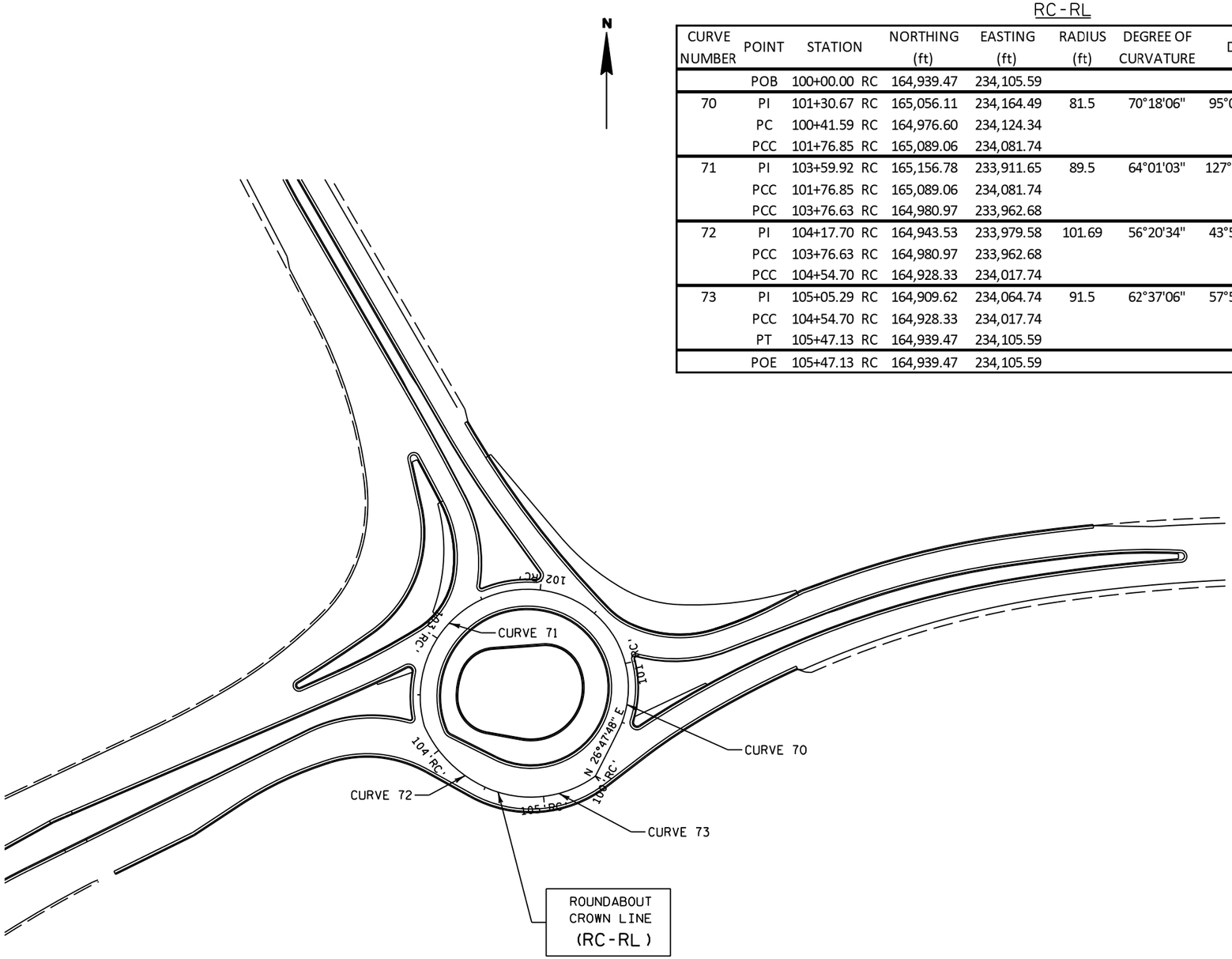
FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\027212_ad.dgn PLOT DATE : 4/29/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42

2

RC - RL

CURVE NUMBER	POINT	STATION		NORTHING (ft)	EASTING (ft)	RADIUS (ft)	DEGREE OF CURVATURE	DELTA	LENGTH (ft)	TANGENT (ft)
	POB	100+00.00	RC	164,939.47	234,105.59					
70	PI	101+30.67	RC	165,056.11	234,164.49	81.5	70°18'06"	95°05'11" LT	135.25	89.08
	PC	100+41.59	RC	164,976.60	234,124.34					
	PCC	101+76.85	RC	165,089.06	234,081.74					
71	PI	103+59.92	RC	165,156.78	233,911.65	89.5	64°01'03"	127°53'36" LT	199.78	183.07
	PCC	101+76.85	RC	165,089.06	234,081.74					
	PCC	103+76.63	RC	164,980.97	233,962.68					
72	PI	104+17.70	RC	164,943.53	233,979.58	101.69	56°20'34"	43°59'27" LT	78.08	41.08
	PCC	103+76.63	RC	164,980.97	233,962.68					
	PCC	104+54.70	RC	164,928.33	234,017.74					
73	PI	105+05.29	RC	164,909.62	234,064.74	91.5	62°37'06"	57°52'35" LT	92.43	50.59
	PCC	104+54.70	RC	164,928.33	234,017.74					
	PT	105+47.13	RC	164,939.47	234,105.59					
	POE	105+47.13	RC	164,939.47	234,105.59					



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	ALIGNMENT DETAILS - ROUNDABOUT CROWN LINE	SHEET 112	E

DATE 15AUG14 — 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	8010-01-75 QUANTITY	8010-01-78 QUANTITY
0010	201.0105	CLEARING	STA	28.000	28.000	
0020	201.0205	GRUBBING	STA	28.000	28.000	
0030	203.0100	REMOVING SMALL PIPE CULVERTS	EACH	14.000	14.000	
0040	204.0100	REMOVING PAVEMENT	SY	96.000	96.000	
0050	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	4,420.000	4,420.000	
0060	204.0150	REMOVING CURB & GUTTER	LF	658.000	658.000	
0070	204.0220	REMOVING INLETS	EACH	1.000	1.000	
0080	204.0240	SITE CLEARANCE (PARCEL) 01. CONCRETE SLAB	LS	1.000	1.000	
0090	204.0245	REMOVING STORM SEWER (SIZE) 01. 18-INCH	LF	70.000	70.000	
0100	204.9105.S	REMOVING (ITEM DESCRIPTION) 01. STOP SIGN FLASHER AND POLE	LS	1.000	1.000	
0110	205.0100	EXCAVATION COMMON	CY	46,618.000	46,618.000	
0120	211.0100	PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) 01. 8010-01-75	LS	1.000	1.000	
0130	211.0400	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	STA	98.000	98.000	
0140	213.0100	FINISHING ROADWAY (PROJECT) 01. 8010-01-75	EACH	1.000	1.000	
0150	214.0100	OBLITERATING OLD ROAD	STA	9.000	9.000	
0160	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	1,360.000	1,360.000	
0170	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	29,170.000	29,170.000	
0180	405.0100	COLORING CONCRETE RED	CY	377.000	377.000	
0190	416.0508	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH	SY	785.000	785.000	
0200	455.0605	TACK COAT	GAL	1,450.000	1,450.000	
0210	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	6,870.000	6,870.000	
0220	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	885.000	885.000	
0230	465.0315	ASPHALTIC FLUMES	SY	70.000	70.000	
0240	520.4015	CULVERT PIPE TEMPORARY 15-INCH	LF	220.000	220.000	
0250	520.4018	CULVERT PIPE TEMPORARY 18-INCH	LF	10.000	10.000	
0260	522.0118	CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	498.000	498.000	
0270	522.1018	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	EACH	15.000	15.000	
0280	522.1024	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	EACH	2.000	2.000	
0290	601.0405	CONCRETE CURB & GUTTER 18-INCH TYPE A	LF	300.000	300.000	
0300	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	862.000	862.000	
0310	601.0553	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	LF	1,379.000	1,379.000	
0320	601.0557	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	LF	5,168.000	5,168.000	
0330	601.0582	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	LF	430.000	430.000	
0340	602.0405	CONCRETE SIDEWALK 4-INCH	SF	5,820.000	5,820.000	
0350	606.0200	RIPRAP MEDIUM	CY	41.000	41.000	
0360	608.0312	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	LF	496.000	496.000	
0370	608.0318	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	841.000	841.000	
0380	608.0324	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	737.000	737.000	
0390	611.0530	MANHOLE COVERS TYPE J	EACH	5.000	5.000	
0400	611.0627	INLET COVERS TYPE HM	EACH	16.000	16.000	
0410	611.0636	INLET COVERS TYPE HM-S	EACH	18.000	18.000	
0420	611.0639	INLET COVERS TYPE H-S	EACH	1.000	1.000	

3

DATE 15AUG14 — 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	8010-01-75 QUANTITY	8010-01-78 QUANTITY
0430	611.0642	INLET COVERS TYPE MS	EACH	1.000	1.000	
0440	611.0652	INLET COVERS TYPE T	EACH	2.000	2.000	
0450	611.2005	MANHOLES 5-FT DIAMETER	EACH	3.000	3.000	
0460	611.2006	MANHOLES 6-FT DIAMETER	EACH	2.000	2.000	
0470	611.3004	INLETS 4-FT DIAMETER	EACH	1.000	1.000	
0480	611.3225	INLETS 2X2.5-FT	EACH	2.000	2.000	
0490	611.3230	INLETS 2X3-FT	EACH	34.000	34.000	
0500	611.3901	INLETS MEDIAN 1 GRATE	EACH	1.000	1.000	
0510	611.8120.S	COVER PLATES TEMPORARY	EACH	2.000	2.000	
0520	611.9800.S	PIPE GRATES	EACH	2.000	2.000	
0530	614.2300	MGS GUARDRAIL 3	LF	188.000	188.000	
0540	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	2.000	2.000	
0550	614.2620	MGS GUARDRAIL TERMINAL TYPE 2	EACH	2.000	2.000	
0560	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 8010-01-75	EACH	1.000	1.000	
0570	619.1000	MOBILIZATION	EACH	1.000	1.000	
0580	620.0300	CONCRETE MEDIAN SLOPED NOSE	SF	672.000	672.000	
0590	621.0100	LANDMARK REFERENCE MONUMENTS	EACH	5.000	5.000	
0600	624.0100	WATER	MGAL	409.000	409.000	
0610	625.0100	TOPSOIL	SY	39,800.000	39,800.000	
0620	627.0200	MULCHING	SY	58,500.000	58,500.000	
0630	628.1504	SILT FENCE	LF	6,650.000	6,650.000	
0640	628.1520	SILT FENCE MAINTENANCE	LF	13,300.000	13,300.000	
0650	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	7.000	7.000	
0660	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	7.000	7.000	
0670	628.2004	EROSION MAT CLASS I TYPE B	SY	9,400.000	9,400.000	
0680	628.2006	EROSION MAT URBAN CLASS I TYPE A	SY	9,100.000	9,100.000	
0690	628.7005	INLET PROTECTION TYPE A	EACH	38.000	38.000	
0700	628.7015	INLET PROTECTION TYPE C	EACH	37.000	37.000	
0710	628.7504	TEMPORARY DITCH CHECKS	LF	264.000	264.000	
0720	628.7555	CULVERT PIPE CHECKS	EACH	14.000	14.000	
0730	629.0210	FERTILIZER TYPE B	CWT	56.000	56.000	
0740	630.0120	SEEDING MIXTURE NO. 20	LB	2,340.000	2,340.000	
0750	630.0171	SEEDING MIXTURE NO. 70A	LB	120.000	120.000	
0760	630.0200	SEEDING TEMPORARY	LB	2,350.000	2,350.000	
0770	630.0400	SEEDING NURSE CROP	LB	240.000	240.000	
0780	633.5200	MARKERS CULVERT END	EACH	13.000	13.000	
0790	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	2.000	2.000	
0800	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	49.000	49.000	
0810	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	30.000	30.000	
0820	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	5.000	5.000	
0830	634.0620	POSTS WOOD 4X6-INCH X 20-FT	EACH	4.000	4.000	
0840	634.0808	POSTS TUBULAR STEEL 2X2-INCH X 8-FT	EACH	4.000	4.000	
0850	634.0810	POSTS TUBULAR STEEL 2X2-INCH X 10-FT	EACH	1.000	1.000	
0860	634.0814	POSTS TUBULAR STEEL 2X2-INCH X 14-FT	EACH	6.000	6.000	
0870	637.1220	SIGNS TYPE I REFLECTIVE SH	SF	112.500	112.500	
0880	637.2210	SIGNS TYPE II REFLECTIVE H	SF	792.870	792.870	
0890	637.2230	SIGNS TYPE II REFLECTIVE F	SF	226.500	226.500	
0900	638.2602	REMOVING SIGNS TYPE II	EACH	153.000	153.000	
0910	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	80.000	80.000	
0920	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 01. S-07-0002	LS	1.000	1.000	
0930	642.5001	FIELD OFFICE TYPE B	EACH	1.000	1.000	
0940	643.0100	TRAFFIC CONTROL (PROJECT) 01. 8010-01-75	EACH	1.000	1.000	

3

DATE 15AUG14 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	8010-01-75 QUANTITY	8010-01-78 QUANTITY
0950	643.0300	TRAFFIC CONTROL DRUMS	DAY	36,314.000	36,314.000	
0960	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	4,202.000	4,202.000	
0970	643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	EACH	160.000	160.000	
0980	643.0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	160.000	160.000	
0990	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	5,930.000	5,930.000	
1000	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	9,931.000	9,931.000	
1010	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	342.000	342.000	
1020	643.0900	TRAFFIC CONTROL SIGNS	DAY	11,821.000	11,821.000	
1030	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	608.000	608.000	
1040	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	84.000	84.000	
1050	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	26,049.000	26,049.000	
1060	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	2,028.000	2,028.000	
1070	646.0600	REMOVING PAVEMENT MARKINGS	LF	3,889.000	3,889.000	
1080	646.0881.S	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH	LF	650.000	650.000	
1090	646.0883.S	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH	LF	2,667.000	2,667.000	
1100	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	3.000	3.000	
1110	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	3.000	3.000	
1120	647.0456	PAVEMENT MARKING CURB EPOXY	LF	103.000	103.000	
1130	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	4.000	4.000	
1140	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	1,420.000	1,420.000	
1150	649.0200	TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH	LF	11,375.000	11,375.000	
1160	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	32,178.000	32,178.000	
1170	649.0701	TEMPORARY PAVEMENT MARKING 8-INCH	LF	60.000	60.000	
1180	649.0801	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH	LF	1,141.000	1,141.000	
1190	649.0900	TEMPORARY PAVEMENT MARKING STOP LINE 12-INCH	LF	81.000	81.000	
1200	649.1200	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH	LF	22.000	22.000	
1210	649.1600	TEMPORARY PAVEMENT MARKING DIAGONAL REMOVABLE TAPE 12-INCH	LF	593.000	593.000	
1220	650.4000	CONSTRUCTION STAKING STORM SEWER	EACH	50.000	50.000	
1230	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	12,097.000	12,097.000	
1240	650.5000	CONSTRUCTION STAKING BASE	LF	10,767.000	10,767.000	
1250	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	3,420.000	3,420.000	
1260	650.6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	5.000	5.000	
1270	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. S-07-0002	LS	1.000	1.000	
1280	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	1,443.000	1,443.000	
1290	650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 01. 8010-01-75	LS	1.000	1.000	
1300	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 8010-01-75	LS	1.000	1.000	
1310	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	10,767.000	10,767.000	
1320	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	1,513.000	1,513.000	
1330	653.0140	PULL BOXES STEEL 24X42-INCH	EACH	9.000	9.000	
1340	654.0105	CONCRETE BASES TYPE 5	EACH	10.000	10.000	

3

DATE 15AUG14 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	8010-01-75 QUANTITY	8010-01-78 QUANTITY
1350	655.0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	1,965.000	1,965.000	
1360	655.0620	ELECTRICAL WIRE LIGHTING 8 AWG	LF	4,798.000	4,798.000	
1370	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. LCC-A	LS	1.000	1.000	
1380	657.0255	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	EACH	10.000	10.000	
1390	657.0710	LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT	EACH	15.000	15.000	
1400	690.0150	SAWING ASPHALT	LF	9,195.000	9,195.000	
1410	690.0250	SAWING CONCRETE	LF	144.000	144.000	
1420	715.0415	INCENTIVE STRENGTH CONCRETE PAVEMENT	DOL	500.000	500.000	
1430	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5. 00/HR	HRS	1,000.000	1,000.000	
1440	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	315.000	315.000	
1450	SPV.0045	SPECIAL 01. PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) CELLULAR COMMUNICATIONS	DAY	608.000	608.000	
1460	SPV.0060	SPECIAL 01. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 1	EACH	2.000	2.000	
1470	SPV.0060	SPECIAL 02. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2	EACH	3.000	3.000	
1480	SPV.0060	SPECIAL 03. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2R	EACH	4.000	4.000	
1490	SPV.0060	SPECIAL 04. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS	EACH	12.000	12.000	
1500	SPV.0060	SPECIAL 05. LUMINAIRES UTILITY LED, LED-A	EACH	15.000	15.000	
1510	SPV.0060	SPECIAL 06. POLES SPECIAL 20-FT ALUMINUM	EACH	6.000	6.000	
1520	SPV.0060	SPECIAL 07. POLES SPECIAL 25-FT ALUMINUM	EACH	4.000	4.000	
1530	SPV.0060	SPECIAL 08. AIR RELEASE MANHOLE WITH FLUSH CONNECTION, COMPLETE	EACH	1.000		1.000
1540	SPV.0060	SPECIAL 09. AIR RELEASE MANHOLE, COMPLETE	EACH	1.000		1.000
1550	SPV.0060	SPECIAL 10. DOUBLE FLUSH CONNECTION, COMPLETE	EACH	3.000		3.000
1560	SPV.0060	SPECIAL 11. REMOVE EXISTING AIR RELEASE MANHOLE	EACH	1.000		1.000
1570	SPV.0060	SPECIAL 12. REMOVE EXISTING FLUSH CONNECTION	EACH	2.000		2.000
1580	SPV.0060	SPECIAL 13. CONNECT TO EXISTING LOW PRESSURE SEWER	EACH	3.000		3.000
1590	SPV.0060	SPECIAL 14. 3-INCH X 1 1/2-INCH TEE, CURB STOP AND BOX	EACH	2.000		2.000
1600	SPV.0060	SPECIAL 15. 3-INCH X 3-INCH TEE	EACH	1.000		1.000
1610	SPV.0060	SPECIAL 16. 3-INCH PLUG	EACH	5.000		5.000
1620	SPV.0060	SPECIAL 17 6-INCH PLUG	EACH	2.000		2.000
1630	SPV.0060	SPECIAL 18. LIGHTING CONTROL CABINET	EACH	1.000	1.000	
1640	SPV.0060	SPECIAL 19. CONCRETE LIGHTING CONTROL CABINET BASE	EACH	1.000	1.000	
1650	SPV.0060	SPECIAL 20. POLES SPECIAL 20-FT ALUMINUM, DELIVERED	EACH	1.000	1.000	
1660	SPV.0060	SPECIAL 21. POLES SPECIAL 25-FT ALUMINUM, DELIVERED	EACH	1.000	1.000	
1670	SPV.0090	SPECIAL 01. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 4-INCH	LF	36.000	36.000	
1680	SPV.0090	SPECIAL 02. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 8-INCH	LF	445.000	445.000	

3

DATE 15AUG14 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	8010-01-75 QUANTITY	8010-01-78 QUANTITY
1690	SPV.0090	SPECIAL 03. PAVEMENT MARKING GROOVED PREFORMED PLASTIC DIAGONAL 12-INCH	LF	42.000	42.000	
1700	SPV.0090	SPECIAL 04. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH	LF	42.000	42.000	
1710	SPV.0090	SPECIAL 05. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D MODIFIED	LF	530.000	530.000	
1720	SPV.0090	SPECIAL 06. CONCRETE CURB & GUTTER CURE AND SEAL TREATMENT	LF	8,472.000	8,472.000	
1730	SPV.0090	SPECIAL 07. 3-INCH HDPE LOW PRESSURE SEWER	LF	2,929.000		2,929.000
1740	SPV.0090	SPECIAL 08. 1 1/2-INCH HDPE LOW PRESSURE SEWER LATERAL	LF	40.000		40.000
1750	SPV.0090	SPECIAL 09. 3-INCH HDPE LOW PRESSURE SEWER HDD	LF	540.000		540.000
1760	SPV.0090	SPECIAL 10. PAVEMENT MARKING GROOVED PREFORMED PLASTIC 8-INCH	LF	260.000	260.000	
1770	SPV.0105	SPECIAL 01. CONSTRUCTION STAKING ROUNDABOUT	LS	1.000	1.000	
1780	SPV.0165	SPECIAL 01. CONCRETE SIDEWALK CURE AND SEAT TREATMENT	SF	5,820.000	5,820.000	
1790	SPV.0180	SPECIAL 01. CONCRETE PAVEMENT 8-INCH SPECIAL	SY	585.000	585.000	
1800	SPV.0195	SPECIAL 01. ASPHALTIC SURFACE SPECIAL	TON	2,180.000	2,180.000	
1810	SPV.0195	SPECIAL 02. HMA PAVEMENT TYPE E-10 SPECIAL	TON	10,720.000	10,720.000	

3

CLEARING AND GRUBBING ITEMS

STATION - STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
CATEGORY CODE 0010			
STAGE 2			
22+00'NB' - 235+00'EB'	RT AND LT	13	13
32+00'NB' - 39+00'NB'	RT AND LT	7	7
304+50'A' - 312+50'A'	RT AND LT	8	8
	STAGE 2 SUBTOTALS	28	28
	TOTALS	**28**	**28**

REMOVING EXISTING CULVERTS

STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	COMMENTS
CATEGORY CODE 0010			
STAGE 2			
21+50'NB'	RT & LT	2	REMOVE 2 - 100 LF OF RCCP 24-INCH
29+15'SB'	LT	1	REMOVE 42 LF OF CMCP 18-INCH
39+72'NB'	RT	1	REMOVE 40 LF OF RCCP 15-INCH
39+25'NB'	LT	1	REMOVE 60 LF OF RCCP 24-INCH
42+10'SB'	RT	1	REMOVE 72 LF OF RCCP 15-INCH
235+19'EB'	RT	1	REMOVE 35 LF OF CMCP 18-INCH
302+60'A'	RT & LT	1	REMOVE 40 LF OF CMCP 18-INCH
	STAGE 2 SUBTOTAL	8	
STAGE 3A			
18+22'SB'	RT & LT	2	REMOVE 2 - 90 LF OF RCCP 24-INCH
23+18'SB'	LT	1	REMOVE 90 LF OF RCCP 24-INCH
39+50'SB'	LT	1	REMOVE 50 LF OF RCCP 24-INCH
236+86'WB'	LT	1	REMOVE 32 LF OF CMCP 18-INCH
	STAGE 3A SUBTOTAL	5	
STAGE 4			
16+44'NB'	LT	1	REMOVE 90 LF OF RCCP 15-INCH
	STAGE 4 SUBTOTAL	1	
	TOTAL	**14**	

REMOVING PAVEMENT ITEMS

STATION - STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	690.0250 SAWING CONCRETE LF
CATEGORY CODE 0010			
STAGE 1			
31+90'NB'	LT	32	72
232+75'WB'	LT	32	72
	STAGE 1 SUBTOTAL	64	144
STAGE 4B			
240+00'WB'	LT	32	32
	STAGE 4B SUBTOTAL	32	
	TOTAL	**96**	**144**

REMOVING ASPHALTIC SURFACE MILLING

STATION - STATION	LOCATION	204.0120 SY
CATEGORY CODE 0010		
STAGE 1		
237+00'EB' - 245+30'EB'	LT/RT	2210
	STAGE 1 SUBTOTAL	2,210
STAGE 4B		
14+00'NB' - 16+85'NB'	RT	1150
47+10'NB' - 50+38'NB'	RT	1060
	STAGE 4B SUBTOTAL	2,210
	TOTAL	**4,420**

SITE CLEARANCE

STATION - STATION	LOCATION	204.0240.01 SITE CLEARANCE LS	COMMENTS
CATEGORY CODE 0010			
STAGE 2			
310+00'A' RT	PARCEL 3	1	CONCRETE SLAB
	STAGE 2 SUBTOTALS	1	
	TOTALS	**1**	

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF	COMMENTS
CATEGORY CODE 0010			
STAGE 2			
16+70'SB'	LT	93	SERVICE ROAD CURB RADIUS
	STAGE 2 SUBTOTAL	93	
STAGE 3A			
25+50'SB'	LT	66	SW CURB RADIUS OF 35/AIRPORT INTERSECTION
25+72'SB'	LT	97	NW CURB RADIUS OF 35/AIRPORT INTERSECION
27+00'SB'	LT	186	SE CURB RADIUS OF 35/70 INTERSECTION
27+50'SB'	LT	122	NE ISLAND OF 35/70 INTERSECTION
27+70'SB'	LT	94	NE CURB RADIUS OF 35/70 INTERSECION
	STAGE 3A SUBTOTAL	565	
	TOTAL	**658**	

REMOVING STORM SEWER ITEMS

STATION	LOCATION	204.0245.01 REMOVING STORM SEWER 18-INCH LF	204.0220 REMOVING INLET EACH	COMMENTS
CATEGORY CODE 0010				
STAGE 3A				
4+75'SD'	LT	70	--	CONNECTS TO INLET
4+75'SD'	LT	--	1	BURIED IN ISLAND
	STAGE 3A SUBTOTAL	70	1	
	TOTAL	**70**	**1**	

REMOVING STOP SIGN FLASHER AND POLE

	LOCATION	204.9105.S.01 REMOVING STOP SIGN FLASHER AND POLE LS
CATEGORY CODE 0010		
STAGE 1		
TURNING ISLAND AT STH 70 STOP SIGN		1
	TOTALS	**1**

EARTHWORK SUMMARY

Division	From/To Station	Location	205.0100 Common Excavation (1)		Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill	Mass Ordinate +/- (6)	Waste	208.0100 Borrow	Comment:
			Cut (2)	EBS Excavation (3)				Factor 1.18			Factor 1.18	
STAGE 1												
Temporary Widening TW1	TW1	RT	334	0	0	334	322	380	-46			
EB STH 70	237+00'EB' - 245+50'EB'	RT	1,000	0	0	1,000	353	416	583			
Temporary Crossover	10+88'NB' - 18+00'NB'	RT & LT	319	0	0	319	235	278	41			
Temporary Widening TW2	TW2	RT	350	0	0	350	105	124	226			
STAGE 1 Subtotal			2,003	0	0	2,003	1,015	1,198	804	804	0	
STAGE 2												
NB STH 35/STH70	17+00'NB' - 29+60'NB'	RT	5,353	0	0	5,353	1,005	1,186	4,167			
SB STH 35/STH70	23+19'SB' - 30+04'SB'	LT	3,306	0	0	3,306	475	561	2,745			
NB STH 35	31+27'NB' - 47+10'NB'	RT & LT	3,736	0	0	3,736	6,361	7,505	-3,769			
SB STH 35	31+36'SB' - 35+00'SB'	LT	159	0	0	159	649	766	-607			
EB STH 70	231+37'EB' - 237+00'EB'	RT	1,295	0	0	1,295	807	953	342			
WB STH 70	231+50'WB' - 236+00'WB'	LT	394	0	0	394	546	645	-251			
SB RT BYPASS	502+10'SBRT' - 504+43'SBRT'	RT	325	0	0	325	168	198	127			
AIRPORT ROAD	AIRPORT ROAD	RT & LT	3,646	0	0	3,646	331	391	3,255			
CIRCLE	CIRCLE	RT & LT	100	0	0	100	2,500	2,950	-2,850			
STAGE 2 Subtotal			18,313	0	0	18,313	12,842	15,154	3,159	3,159	0	
STAGE 3A												
SB STH 35/STH70	17+00'SB' - 23+19'SB'	LT	2,679	0	0	2,679	3,533	4,169	-1,489			
NB STH 35	40+50'NB' - 47+10'NB'	RT & LT	554	0	0	554	284	335	220			
SB STH 35	31+36'SB' - 32+50'SB'	LT	1	0	0	1	193	227	-226			
EB STH 70	236+50'EB' - 245+50'EB'	RT	1,030	0	0	1,030	10	12	1,018			
WB STH 70	233+00'WB' - 236+00'WB	LT	819	0	0	819	7	8	810			
SB RT BYPASS	502+61'SBRT' - 502+94'SBRT'	RT	604	0	0	604	5	6	599			
SPECIAL DITCH	SPECIAL DITCH	RT & LT	19,570	0	0	19,570	12,452	14,694	4,876			
STAGE 3A Subtotal			25,258	0	0	25,258	16,484	19,451	5,808	5,808	0	
STAGE 3B												
NB STH 35	31+53'NB' - 31+91'NB'	LT	55	0	0	55	101	119	-64			
STAGE 3B Subtotal			55	0	0	55	101	119	-64	0	0	Use waste from previous stage.
STAGE 4A												
NB STH 35/STH 70	10+88'NB' - 18+00'NB'	LT	989	0	0	989	63	74	915			
STAGE 4 Subtotal			989	0	0	989	63	74	915	915	0	
Grand Total			46,618		0	46,618	30,505	35,996	10,622	10,686	0	

1) Common Excavation is the sum of the Cut and EBS Excavation columns.
2) Salvaged/Unusable Pavement Material is included in Cut.
3) No EBS is anticipated
4) No Salvaged/Unusable Pavement Material is anticipated
5) Available Material = Cut - Salvaged/Unusable Pavement Material

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\030101_mq.dgn PLOT DATE : 7/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 200.0000 sf / in.
WISDOT/CADDS SHEET 43

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

STATION - STATION	LOCATION	211.0400 STA
CATEGORY CODE 0010		
STAGE 2		
17+68'NB' - 26+50'NB'	RT	9
23+19'SB' - 30+04'SB'	LT	7
33+00'NB' - 47+10'NB'	RT	14
31+36'SB' - 40+64'SB'	LT	9
232+90'EB' - 245+80'EB'	RT	13
AIRPORT ROAD	RT	9
AIRPORT ROAD	LT	11
STAGE 2 SUBTOTALS		72
STAGE 3A		
19+64'SB' - 23+19'SB'	LT	4
40+64'SB' - 47+10'SB'	LT	7
235+50'WB' - 245+80'WB'	LT	10
502+61'SBRT' - 502+94'SBRT'	RT	1
STAGE 3A SUBTOTALS		22
STAGE 4A		
10+88'NB' - 14+50'NB'	LT	4
STAGE 4A SUBTOTALS		4
TOTALS		98

PREPARE FOUNDATION FOR ASPHALTIC PAVEMENT

STATION - STATION	211.0100 LS
CATEGORY CODE 0010	
PROJECT 8010-01-75	1
1	

FINISHING ROADWAY

STATION - STATION	213.0100 EACH
CATEGORY CODE 0010	
PROJECT 8010-01-75	1
1	

OBLITERATING OLD ROAD

STATION - STATION	LOCATION	214.0100 STA	COMMENTS
CATEGORY CODE 0010			
STAGE 2			
47+65'NB'	RT	1	EXISTING DRIVEWAY
STAGE 2 SUBTOTALS		1	
STAGE 3A			
309+00'A' - 312+00'A'	RT	4	EXISTING AIRPORT ROAD
STAGE 3A SUBTOTALS		4	
STAGE 4B			
47+10'NB' - 50+40'NB'	RT	4	EXISTING NB STH 35
STAGE 4B SUBTOTALS		4	
TOTALS		**9**	

BASE AGGREGATE DENSE AND WATER ITEMS

STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
CATEGORY CODE 0010				
STAGE 1				
TEMPORARY CROSSOVER		71	650	10
TEMPORARY WIDENING 'TW1'	LT	94	986	14
TEMPORARY WIDENING NORTH	LT	95	624	10
STAGE 1 SUBTOTALS		260	2,260	34
STAGE 2				
16+49'NB' - 29+60'NB'	LT & RT	55	3,340	45
23+19'SB' - 30+04'SB'	LT & RT	25	1,447	20
31+91'NB' - 47+10'NB'	LT & RT	137	3,429	48
31+36'SB' - 43+00'SB'	LT & RT	72	1,735	24
231+12'EB' - 245+80'EB'	LT & RT	125	2,243	32
231+37'WB' - 236+14'WB'	LT & RT	--	788	11
CIRCLE	LT & RT	--	1,409	19
SOUTHBOUND RIGHT BY PASS	LT & RT	84	1,193	17
AIRPORT ROAD	LT & RT	255	2,706	39
DRIVEWAYS	LT & RT	--	127	2
SOUTH SPLITTER ISLAND		37	539	8
NORTH SPLITTER ISLAND		--	358	5
EAST SPLITTER ISLAND		--	676	9
STAGE 2 SUBTOTALS		790	19,990	279
STAGE 3A				
16+49'SB' - 23+19'SB'	LT & RT	20	2,006	27
31+03'SB' - 45+84'SB'	LT & RT	54	1,093	15
235+08'WB' 0 247+44'WB'	LT & RT	97	1,305	19
SOUTHBOUND RIGHT BY PASS	LT & RT	6	145	2
DRIVEWAYS		23	551	8
SOUTH SPLITTER ISLAND		--	140	2
STAGE 3A SUBTOTALS		200	5,240	73
STAGE 3B				
31+53'NB' - 31+91'NB'	RT	--	80	1
STAGE 3B SUBTOTALS		--	80	1
STAGE 4A				
SOUTH MEDIAN	LT & RT	80	1,375	19
NORTH SPLITTER ISLAND	LT & RT	--	155	2
EAST SPLITTER ISLAND	LT & RT	--	70	1
STAGE 4A SUBTOTALS		80	1,600	22
STAGE 4B				
47+10'NB' - 50+38'NB'	RT	30	--	0
STAGE 4B SUBTOTALS		30	--	--
TOTALS		**1,360**	**29,170**	**409**

CONCRETE PAVEMENT ITEMS

STATION - STATION	LOCATION	405.0100 COLORING CONCRETE (RED) CY	SPV.0180.01 CONCRETE PAVEMENT 8-INCH SPECIAL SY	416.0508 CONCRETE ROUNDABOUT TRUCK APRON 8-INCH SY	COMMENTS
CATEGORY CODE 0010					
STAGE 2					
CIRCLE	CIRCLE	174	--	785	ROUNDABOUT TRUCK APRON
0+00 'BC-B' - 0+30'BC-B'		2	11	--	TRUCK OVERTRACKING PAD
0+00 'BC-C' - 0+46 'BC-C'		8	36	--	TRUCK OVERTRACKING PAD
0+72 'BC-C' - 0+92 'BC-C'		1	6	--	TRUCK OVERTRACKING PAD
0+00 'BC-D' - 0+65 'BC-D'		8	35	--	TRUCK OVERTRACKING PAD
0+00 'BC-E' - 0+72 'BC-E'		10	43	--	TRUCK OVERTRACKING PAD
1+16 'BC-E' - 3+06 'BC-E'		86	386	--	TRUCK OVERTRACKING PAD
STAGE 2 SUBTOTALS		289	517	785	
STAGE 3A					
0+45.60 'BC-C' - 0+72.00 'BC-C'		6	25	--	TRUCK OVERTRACKING PAD
STAGE 3A SUBTOTALS		6	25	--	
STAGE 3B					
0+72 'BC-E' - 1+16 'BC-E'		10	43	--	TRUCK OVERTRACKING PAD
STAGE 3B SUBTOTALS		10	43	--	
TOTALS		**305** xx	**585**	**785**	

xx QUANTITIES LISTED ELSEWHERE

ASPHALTIC ITEMS

STATION - STATION	LOCATION	455.0605 TACK COAT GAL	SPV.0195.01 ASPHALTIC SURFACE SPECIAL TON	SPV.0195.02 HMA PAVEMENT TYPE E-10 SPECIAL TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0315 ASPHALTIC FLUMES SY
CATEGORY CODE 0010						
STAGE 1						
237+00'EB' - 245+30'EB'	RT & LT	27	--	120	--	--
TEMP CROSSOVER	MEDIAN	--	--	--	204	--
TW1	LT	--	--	--	333	
TEMP WIDENING STH 35 SB	LT	--	--	--	148	
REMOVAL OF TWO RUMBLE STRIPS	LT	--	--	--	18	
STAGE 1 SUBTOTALS		27	--	120	703	--
STAGE 2						
16+49'NB' - 29+60'NB'	RT	200	169	1,644	--	10
23+19'SB' - 30+04'SB'	LT	91	76	762	--	--
CIRCLE	RT	91	--	710	--	--
31+91'NB' - 47+10'NB'	RT	185	227	1,497	--	10
31+36'SB' - 40+64'SB'	LT	93	85	780	--	--
231+12'EB' - 245+80'EB'	RT	87	141	729	--	10
231+37'WB' - 236+14'WB'	LT	42	--	353	--	--
500+00'SBRT' - 502+61'SBRT'	RT	36	--	298	--	--
502+94'SBRT' - 505+98'SBRT'	RT	45	--	382	--	--
AIRPORT ROAD AND DRIVEWAY	RT & LT	94	842	--	--	20
OSOW CROSSOVER	MEDIAN	17	--	140	--	--
DRIVEWAY DW1	RT & LT	6	52	--	--	--
DRIVEWAY 239+12'EB'	RT	1	12	--	--	--
TEMPORARY PAVEMENT	NORTH SPLITTER	--	--	--	135	--
TEMPORARY PAVEMENT	EAST SPLITTER	--	--	--	47	--
STAGE 2 SUBTOTALS		988	1,604	7,295	182	50
STAGE 3A						
16+49'SB' - 23+19'SB'	LT	152	57	1,268	--	--
31+03'SB' - 31+36'SB'	LT	3	--	26	--	--
40+64'SB' - 47+10'SB'	LT	51	128	425	--	--
235+08'WB' - 245+80'WB'	LT	14	124	120	--	--
502+61'SBRT' - 502+94'SBRT'	RT	9	--	72	--	--
DRIVEWAY 239+36'WB'	LT	27	244	--	--	--
STAGE 3A SUBTOTALS		256	553	1,911	--	--
STAGE 3B						
31+53'NB' - 31+91'NB'	RT	4	--	32	--	--
STAGE 3B SUBTOTALS		4	--	32	--	--

ASPHALTIC ITEMS (CONTINUED)

STATION - STATION	LOCATION	455.0605 TACK COAT GAL	SPV.0195.01 ASPHALTIC SURFACE SPECIAL TON	SPV.0195.02 HMA PAVEMENT TYPE E-10 SPECIAL TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0315 ASPHALTIC FLUMES SY
CATEGORY CODE 0010						
STAGE 4A						
10+88'NB' - 17+78'NB'	LT	88	--	738	--	20
STAGE 4A SUBTOTALS		88	--	738	--	20
STAGE 4B						
10+88'NB' - 16+49'NB'	RT	29	--	128	--	--
47+10'NB' - 50+38'NB'	RT	55	--	248	--	--
DRIVEWAY 47+75'NB'	RT	3	23	248	--	--
STAGE 4B SUBTOTALS		87	23	624	--	--
TOTALS		**1,450**	**2,180**	**10,720**	**885**	**70**

TEMPORARY CULVERT PIPE ITEMS

STATION	LOCATION	520.4015 CULVERT PIPE TEMPORARY 15-INCH LF	520.4018 CULVERT PIPE TEMPORARY 18-INCH LF	COMMENTS
CATEGORY CODE 0010				
STAGE 1				
15+00'NB' - 15+90'NB'	LT	90	--	EXTEND FROM EXISTING PIPE
16+80'NB' - 18+10'NB'	LT	130	--	EXTEND FROM EXISTING PIPE
2+72'TW2'	RT	--	10	EXTEND FROM EXISTING PIPE
STAGE 1 SUBTOTALS		220	10	
TOTALS		**220**	**10**	

CULVERT PIPE ITEMS

STATION	LOCATION	522.0118 CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	INVERT STATION	INVERT ELEV	OUTLET STATION	OUTLET ELEV	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH
CATEGORY CODE 0010								
STAGE 2								
39+50'NB'		106	2	39+50'NB', 36.3' RT	982.98	39+50'NB', 68.8' LT	982.69	1
40+43.63		144	2	40+50'NB', 34.3 RT	982.50	40+25'NB', 110.4' LT	982.18	1
308+50'A'		62	2	308+50'A', 30.4' LT	984.02	308+50'A', 32.0' RT	983.62	1
310+25'A'	LT	34	2	310+42.7'A', 25.6' LT	984.73	310+05.8'A' - 26.3' LT	984.61	1
STAGE 2 SUBTOTALS		346	8					4
STAGE 3A								
239+20'EB'	LT	152	2	240+01.5'EB', 52.7' LT	986.83	238+50'EB', 51.5' LT	986.48	1
STAGE 3A SUBTOTALS		152	2					1
TOTALS		**498**	**10** XX					**5**

XX = QUANTITIES LISTED ELSEWHERE

CONCRETE CURB AND GUTTER ITEMS

STATION - STATION	LOCATION	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0582 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T LF	SPV.0090.05 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D MODIFIED LF	SPV.0090.06 CONCRETE CURB & GUTTER CURE AND SEAL TREATMENT LF	650.5500 CONSTRUCTION STAKING CURB, GUTTER AND CURB & GUTTER LF
CATEGORY CODE 0010									
STAGE 2									
19+47'NB' - 23+25'NB'	LT	--	--	--	378	--	--	378	378
24+75'NB' - 27+75'NB'	LT	--	--	--	300	--	--	300	175
23+19'SB' - 24+50'SB'	RT	--	--	--	131	--	--	131	131
25+75'SB' - 29+62'SB'	RT	--	--	--	387	--	--	387	95
27+75'NB' - 29+54'NB'	LT	--	179	--	--	--	--	179	--
26+70'NB' - 232+75'NB'	RT	--	--	--	637	--	--	637	--
29+52'SB' - 29+89'SB'	RT	--	--	--	--	--	28	28	--
28+96'SB' - 30+29'SB'	LT	--	--	130	--	--	--	130	--
30+29'SB' - 31+04'SB'	LT	--	--	--	--	--	50	50	--
31+43'SB' - 31+71'SB'	LT	--	--	--	--	--	17	17	--
31+71'SB' - 32+02'SB'	LT	--	--	43	--	--	--	43	--
32+43'NB' - 32+77'NB'	RT	--	--	34	--	--	--	34	--
33+24'NB' - 34+99'NB'	LT	--	--	--	175	--	--	175	--
34+04'NB' - 35+66'NB'	LT	--	--	--	162	--	--	162	--
231+34'EB' - 232+10'EB'	LT	--	--	--	--	--	65	65	--
232+10'EB' - 235+52'EB'	LT	--	--	342	--	--	--	342	--
231+44'WB' - 233+09'WB'	RT	--	165	--	--	--	--	165	--
233+09'WB' - 234+17'WB'	RT	--	--	108	--	--	--	108	--
31+35'NB' - 232+92'WB'	RT/LT	--	--	--	--	--	226	226	--
232+92'WB' - 234+54'WB'	LT	--	--	162	--	--	--	162	--
31+77'NB' - 32+43'NB'	RT	--	--	--	--	--	66	66	--
502+13'SBRT' - 502+62'SBRT'	LT	--	--	49	--	--	--	49	--
502+94'SBRT' - 504+46'SBRT'	LT	--	--	152	--	--	--	152	--
ROUNDABOUT APRON	LT	300	--	--	--	--	--	300	--
ROUNDABOUT APRON	LT	--	--	--	--	430	--	430	--
100+30'C' - 100+59'C'	RT	--	48	--	--	--	4	52	--
102+53'C' - 102+83'C'	RT	--	40	--	--	--	--	40	--
17+00'SB'+44'A' - 306+00'A'	RT	--	--	--	536	--	--	536	536
312+50'A' -314+25'A'	LT	--	--	--	175	--	--	175	175
STAGE 2 SUBTOTALS		300	432	1,020	2,881	430	456	5,519	1,490
STAGE 3A									
17+00'SB' - 19+64'SB'	LT	--	--	--	264	--	--	264	264
18+16'SB' - 23+19'SB'	RT	--	--	--	503	--	--	503	503
31+04'SB' - 31+43'SB'	LT	--	--	--	--	--	33	33	--
234+54'WB' - 235+40'WB'	LT	--	--	86	--	--	--	86	--
502+52'SBRT' - 502+94'SBRT'	LT	--	--	32	--	--	--	32	--
STAGE 3A SUBTOTALS		--	--	118	767	--	33	918	767
STAGE 3B									
31+35'NB' - 31+77'NB'	RT	--	--	--	--	--	41	41	--
STAGE 3B SUBTOTALS		--	--	--	--	--	41	41	--

CONTINUED ON NEXT SHEET

CONCRETE CURB AND GUTTER ITEMS (CONTINUED)

STATION - STATION	LOCATION	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0582 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T LF	SPV.0090.05 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D MODIFIED LF	SPV.0090.06 CONCRETE CURB & GUTTER CURE AND SEAL TREATMENT LF	650.5500 CONSTRUCTION STAKING CURB, GUTTER AND CURB & GUTTER LF
CATEGORY CODE 0010									
STAGE 4A									
14+50'NB' - 19+47'NB'	LT	--	--	--	1,085	--	--	888	888
23+25'NB' - 24+75'NB'	LT	--	--	--	150	--	--	150	150
24+50'SB' - 25+75'SB'	RT	--	--	--	125	--	--	125	125
31+37'NB' - 33+24'NB'	LT	--	187	--	--	--	--	187	--
30+69'SB' - 32+56'SB'	RT	--	187	--	--	--	--	187	--
33+24'NB' - 34+04'NB'	LT	--	--	--	80	--	--	80	--
32+56'SB' - 33+36'SB'	RT	--	--	--	80	--	--	80	--
234+17'WB' - 236+09'WB'	RT	--	--	183	--	--	--	183	--
235+52'EB' - 236+10'EB'	LT	--	--	58	--	--	--	58	--
101+39'C' - 101+80'C'	RT	--	56	--	--	--	--	56	--
STAGE 4A SUBTOTALS		--	430	241	1,520	--	--	1,994	1,163
TOTALS		**300**	**862**	**1,379**	**5,168**	**430**	**530**	**8,472**	**3,420**

CONCRETE SIDEWALK ITEMS

STATION - STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	405.0100 COLORING CONCRETE (RED) CY	SPV.0165.01 CONCRETE SIDEWALK CURE AND SEAL TREATMENT SF
CATEGORY CODE 0010				
STAGE 2				
35+03'NB' - 35+63'NB'	LT	411	5	411
502+13'WBRT' - 502+26'SBRT'	LT	75	1	75
504+14'SBRT' - 504+46'SBRT'	LT	173	2	173
100+30'C' - 100+59'C	RT	489	6	489
102+53'C' - 102+83'C	RT	365	5	365
STAGE 2 SUBTOTALS		1,513	19	1,513
STAGE 4A				
14+75'SB' - 15+75'SB'	RT	641	8	641
15+50'NB' - 17+68'SB'	LT/RT	2,256	28	2,256
16+91'NB' - 17+93'NB'	LT	640	8	640
235+70'EB' - 236+10'EB'	RT	250	3	250
101+39'C' - 101+80'C'	RT	520	6	520
STAGE 4A SUBTOTALS		4,307	53	4,307
TOTALS		**5,820**	**72** xx	**5,820**

xx QUANTITIES LISTED ELSEWHERE

COVER PLATES TEMPORARY

LOCATION		611.8120.S EACH	STORM SEWER STRUCTURE NO.
CATEGORY CODE 0010			
STAGE 2			
33+69.25'NB'	LT	1	IN2.2
33+79.25'NB'	LT	1	IN2.1
STAGE 2 SUBTOTALS		2	
TOTALS		**2**	

PIPE GRATES

STATION	LOCATION	611.9800.S EACH	ENDWALL NO.
CATEGORY CODE 0010			
STAGE 2			
22+50'SB'	LT	1	EW1.0
28+73'SB'	RT	1	EW6.0
STAGE 2 SUBTOTAL		2	
TOTALS		**2**	

RIPRAP AND GEOTEXTILE FABRIC ITEMS

STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY	633.5200 MARKERS CULVERT END EACH
CATEGORY CODE 0010				
STAGE 1				
15+00'NB'	LT	2	4	--
2+72'TW2'	RT	3	6	--
STAGE 1 SUBTOTALS		5	10	--
STAGE 2				
22+50'SB'	LT	3	7	1
25+00'NB'	RT	3	6	1
28+73'SB'	LT	3	7	1
32+34'SB'	LT	3	6	1
33+79'NB'	RT	3	6	1
39+50'NB'	LT	3	6	1
234+04'EB'	RT	3	6	1
308+50'A'	RT	3	6	1
310+05'A'	LT	3	6	--
STAGE 2 SUBTOTALS		27	56	8
STAGE 3A				
22+75'SB'	LT	3	6	1
40+25'NB'	LT	3	6	1
238+50'WB'	LT	3	6	--
STAGE 3A SUBTOTALS		9	18	2
TOTALS		**41**	**84**	**10** XX

XX QUANTITIES LISTED ELSEWHERE

STORM SEWER PIPE SUMMARY

FROM STRUCTURE	TO STRUCTURE	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 608.0312 12-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	COMMENTS
CATEGORY CODE 0010					
STAGE 2					
IN2.3	MH2.0	15	--	--	
MH2.0	EW1.0	--	--	315	
IN5.3	IN5.2	10	--	--	
IN5.2	IN5.1	61	--	--	
IN5.1	EW5.0	--	63	--	
IN8.6	IN8.5	23	--	--	
IN8.5	IN8.3	--	29	--	
IN8.4	IN8.3	10	--	--	
IN8.3	MH8.0	--	27	--	
IN8.2	IN8.1	10	--	--	
IN8.1	MH8.0	9	--	--	
MH8.0	MH7.0	--	--	63	
MH7.0	IN6.2	--	--	27	
IN6.2	IN6.1	--	--	7	
IN6.1	EW6.0	--	--	66	
IN10.4	IN10.3	10	--	--	
IN10.3	IN10.2	--	23	--	
IN10.2	MH10.0	--	119	--	
IN10.1	MH10.0	27	--	--	
MH10.0	IN9.1	--	139	--	
IN9.6	IN9.5	10	--	--	
IN9.5	IN9.3	--	23	--	
IN9.4	IN9.3	10	--	--	
IN9.3	IN9.1	--	15	--	
IN9.2	IN9.1	10	--	--	
IN9.1	EW9.0	--	44	--	
IN11.2	IN11.1	9	--	--	
IN11.1	EW11.0	--	64	--	
IN12.4	IN12.3	10	--	--	
IN12.3	IN12.1	29	--	--	
IN12.2	IN12.1	10	--	--	
IN12.1	EW12.0	--	42	--	
STAGE 2 SUBTOTALS		263	588	478	
STAGE 3A					
IN2.2	IN2.1	23	--	--	
IN2.1	MH2.0	--	69	--	
IN4.1	EW4.0	--	134	--	
STAGE 3A SUBTOTALS		23	203	--	

(CONTINUED)

STORM SEWER PIPE SUMMARY (CONTINUED)

FROM STRUCTURE	TO STRUCTURE	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 608.0312 12-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	COMMENTS
CATEGORY CODE 0010					
STAGE 4A					
IN3.7	IN3.6	13	--	--	
IN3.6	IN3.4	99	--	--	
IN3.5	IN3.4	16	--	--	
IN3.4	MH3.0	--	50	--	
IN3.3	IN3.2	9	--	--	
IN3.2	MH3.0	22	--	--	
IN3.1	MH3.0	51	--	--	PORTION IN STAGE 3A
MH3.0	MH2.0	--	--	259	PORTION IN STAGE 3A
STAGE 4A SUBTOTALS		210	50	259	
TOTALS		**496**	**841**	**737**	

STORM SEWER SUMMARY

NO.	STATION	OFFSET	MANHOLES 611.2005 5-FT DIAMETER EACH	MANHOLES 611.2006 6-FT DIAMETER EACH	INLETS 611.3225 2x2.5-FT EACH	INLETS 611.3230 2x3-FT EACH	INLETS 611.3004 4-FT DIAMETER EACH	INLETS 611.3901 MEDIAN 1 GRATE EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 522.1018 18-INCH EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 522.1024 24-INCH EACH	MANHOLE COVERS 611.0530 TYPE J EACH	INLET COVERS 611.0627 TYPE HM EACH	INLET COVERS 611.0636 TYPE HM-S EACH	INLET COVERS 611.0639 TYPE H-S EACH	INLET COVERS 611.0642 TYPE MS EACH	INLET COVERS 611.0652 TYPE T EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM OR FLANGE ELEV	FLOWLINE OF STRUCTURE	STRUCTURE DEPTH FT
IN3.7	15+55.00'NB'	5.50 LT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	988.34	985.33	2.01
IN3.6	15+55.14'NB'	18.50 LT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	988.17	985.17	2.01
IN3.5	16+50.00'NB'	26.65 LT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	988.13	984.75	2.38
IN3.4	16+51.06'SB'	5.50 RT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	989.59	984.57	4.02
IN3.3	16+97.93'NB'	5.50 LT		---	---	1	---	---	---	---	---	1	---	---	---	---	1	988.66	985.15	2.51
IN3.2	16+97.93'NB'	14.50 LT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	988.58	984.93	2.65
IN3.1	17+12.62'SB'	37.50 LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	989.75	985.08	3.67
MH3.0	17+00.62'NB'	36.00 LT	---	1	---	---	---	---	---	---	1	---	---	---	---	---	1	989.61	983.82	4.54
IN2.3	304+53.66'A'	16.50 RT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	988.62	984.24	3.38
IN2.2	19+50.00'NB'	5.50 LT	---	---	---	1	---	---		---	---	1	---	---	---	---	1	990.57	986.83	2.74
IN2.1	19+48.13'SB'	19.11 RT		---	---	1	---	---	---	---	---	1	---	---	---	---	1	991.04	985.61	4.43
MH2.0	19+52.65'SB'	49.34 LT	---	1	---	---	---	---	---	---	1	---	---	---	---	---	1	991.02	982.95	6.82
EW1.0	22+50.00'SB'	97.66 LT	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---
IN4.1	23+11.25'SB'	24.00 RT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	1	990.75	986.25	4.31
EW4.0	22+75.00'SB'	104.52 LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---
IN5.3	25+85.00'SB'	5.50 RT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	990.94	987.27	2.67
IN5.2	25+75.00'SB'	5.50 RT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	990.99	987.12	2.92
IN5.1	25+00.00'NB'	5.50 LT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	991.41	986.31	4.10
EW5.0	25+00.00'NB'	57.67 RT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---
IN8.6	27+81.54'NB'	28.78 RT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	989.42	986.06	2.36
IN8.5	27+91.43'NB'	27.55 RT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	989.47	985.45	3.02
IN8.4	27+80.00'NB'	1.50 LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	989.99	985.43	3.56
IN8.3	27+90.00'NB'	1.50 LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	989.99	985.20	3.79
IN8.2	28+50.15'SB'	1.50 RT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	989.97	985.76	3.21
IN8.1	28+40.15'SB'	1.50 RT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	989.97	985.61	3.36
MH8.0	28+15.24'NB'	10.45 LT	1	---	---	---	---	---	---	---	1	---	---	---	---	---	1	990.75	984.56	4.94
MH7.0	28+77.80'NB'	9.08 LT	1	---	---	---	---	---	---	---	1	---	---	---	---	---	1	990.93	984.14	5.54
IN6.2	29+05.02'SB'	17.71 LT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	989.79	983.90	4.89
IN6.1	504+39.18'SBRT'	1.50 LT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	989.59	983.76	4.83
EW6.0	28+72.52'SB'	82.49 RT	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---
IN10.4	100+60.00'C'	1.50 LT	---	---	1	---	---	---	---	---	---	---	---	---	---	1	1	989.70	985.83	2.79
IN10.3	100+50.00'C'	1.50 LT	---	---	1	---	---	---	---	---	---	---	---	---	---	1	1	989.70	985.28	3.34
IN10.2	100+50.00'C'	21.50 RT	---	---	---	1	---	---	---	---	---	---	---	1	---	---	1	989.82	985.11	3.71
IN10.1	232+57.54'WB'	17.85 LT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	988.52	984.88	2.64
MH10.0	232+66.06'EB'	10.19 LT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	989.26	984.65	3.36
IN9.6	234+09.70'WB'	21.50 LT	1	---	---		---	---	---	---	1	---	---	---	---	---	1	987.64	984.58	2.06
IN9.5	234+00.00'WB'	21.50 LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	987.64	984.44	2.20
IN9.4	234+10.02'WB'	1.50 RT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	988.04	984.82	2.22
IN9.3	234+00.00'WB'	1.50 RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	988.04	984.27	2.77
IN9.2	234+14.15'EB'	1.50 LT	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1	988.00	984.68	2.32
IN9.1	234+04.17'EB'	1.50 LT	---	---	---	---	1	---	---	---	---	---	1	---	---	---	1	987.99	984.13	2.86
EW9.0	234+04.17'EB'	42.42 RT	---	---	---	1	---	---	1	---	---	---	1	---	---	---	1	---	---	---
	SUBTOTALS		3	2	2	28	1	1	3	2	5	16	12	1	1	2	42			

(CONTINUED ON NEXT SHEET)

STORM SEWER SUMMARY (CONTINUED)

NO.	STATION	OFFSET	MANHOLES 611.2005 5-FT DIAMETER EACH	MANHOLES 611.2006 6-FT DIAMETER EACH	INLETS 611.3225 2x2.5-FT EACH	INLETS 611.3230 2x3-FT EACH	INLETS 611.3004 4-FT DIAMETER EACH	INLETS 611.3901 MEDIAN 1 GRATE EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 522.1018 18-INCH EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 522.1024 24-INCH EACH	MANHOLE COVERS 611.0530 TYPE J EACH	INLET COVERS 611.0627 TYPE HM EACH	INLET COVERS 611.0636 TYPE HM-S EACH	INLET COVERS 611.0639 TYPE H-S EACH	INLET COVERS 611.0642 TYPE MS EACH	INLET COVERS 611.0652 TYPE T EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM OR FLANGE ELEV	FLOWLINE OF STRUCTURE	STRUCTURE DEPTH FT
IN11.2	31+98.62'SB'	17.50 LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	989.01	985.02	2.99
IN11.1	502+16.67'SBRT'	4.76 RT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	988.87	984.48	3.39
EW11.0	32+33.82'SB'	80.65 RT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---
IN12.4	33+48.16'SB'	1.50 RT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	988.63	985.33	2.30
IN12.3	33+38.16'SB'	1.50 RT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	988.63	985.18	2.45
IN12.2	33+69.25'NB'	1.50 LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	988.52	985.09	2.43
IN12.1	33+79.25'NB'	1.50 LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	1	988.52	984.54	2.98
EW12.0	33+79.25'NB'	40.54 RT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---
	SUBTOTALS		0	0	0	6	0	0	2	0	0	0	6	0	0	0	8			
	TOTALS:		**3**	**2**	**2**	**34**	**1**	**1**	**5**	**2**	**5**	**16**	**18**	**1**	**1**	**2**	**50**			
									XX											

STRUCTURE DEPTH = RIM ELEVATION MINUS 15" FOR STRUCTURES WITH TYPE J COVERS (9" CASTING, 6" ADJUSTING)
STRUCTURE DEPTH = FLANGE ELEVATION MINUS 12" FOR STRUCTURES WITH ALL H COVER TYPES (6" CASTING, 6" ADJUSTING)
STRUCTURE DEPTH = FLANGE ELEVATION MINUS 13" FOR STRUCTURES WITH TYPE T COVERS (7" CASTING, 6" ADJUSTING)
STRUCTURE DEPTH = RIM ELEVATION MINUS 2.25" FOR STRUCTURES WITH TYPE MS COVER
OFFSET IS TO CENTER OF STRUCTURE FOR MANHOLES AND INLETS OR TO END OF STRUCTURE ENDWALLS

XX QUANTITIES LISTED ELSEWHERE

MGS GUARDRAIL ITEMS

STATION - STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2620 MGS GUARDRAIL TERMINAL TYPE 2 EACH
CATEGORY CODE 0010				
STAGE 2				
19+18'NB' - 21+25'NB'	RT	150	1	1
20+35'NB' - 21+25'NB'	LT	38	1	1
STAGE 2 SUBTOTALS		188	2	2
TOTALS		**188**	**2**	**2**

CONCRETE MEDIAN SLOPED NOSE

STATION	LOCATION	620.0300 SF	COMMENTS
CATEGORY CODE 0010			
STAGE 2			
29+55'NB'	LT	16	TYPE 2
29+92'SB'	RT	41	TYPE 2
35+65'NB'	RT	41	TYPE 1
231+32'EB'	LT	60	TYPE 2
231+42'WB'	RT	16	TYPE 2
502+11'SB'RT'	LT	60	TYPE 1
504+46'SBRT'	LT	37	TYPE 1
STAGE 2 SUBTOTAL		271	
STAGE 4A			
15+48'NB'	LT	86	TYPE 1
15+77'SB'	RT	56	TYPE 1
16+87'NB'	LT	56	TYPE 1
17+67'SB'	RT	86	TYPE 1
31+35'NB'	LT	41	TYPE 2
30+80'SB'	RT	16	TYPE 2
236+12'EB'	RT	60	TYPE 1
STAGE 4 SUBTOTALA		401	
TOTAL		**672**	

LANDMARK REFERENCE MONUMENTS

LOCATION	621.0100 LANDMARK REFERENCE MONUMENTS EACH
CATEGORY CODE 0010	
SECTIONS 4, 5, 32, 33, T32N & T33N, R16W, STA. 26+61.88'SB' 260.3' LT	5
TOTAL	**5**

LANDSCAPING ITEMS

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEED MIX NO. 20 LBS	630.0171 SEED MIX NO. 70A LBS	630.0200 SEED TEMPORARY LBS	630.0400 SEED NURSE CROP LBS
CATEGORY CODE 0010								
STAGE 2								
16+80'NB' - 29+10'NB'	RT	3,630	2,150	2.8	120	--	120	--
25+00'NB' - 29+10'NB'	LT	960	--	0.6	26	--	26	--
23+19'SB' - 30+00'SB'	LT	2,820	2,410	5.4	232	--	232	--
31+50'NB' - 47+10'NB'	RT	5,390	4,460	4.1	175	--	175	--
31+50'SB' - 40+00'SB'	LT	2,450	1,450	9.7	414	--	414	--
231+00'EB' - 245+30'EB'	RT	2,770	1,680	2.4	104	--	104	--
231+00'EB' - 234+20'EB'	LT	170	--	0.1	5	--	5	--
231+00'WB' - 234+00'WB'	LT	960	520	0.6	26	--	26	--
301+40'A' - 314+45'A'	LT	1,460	660	1.2	52	--	52	--
304+50'A' - 314+45'A'	RT	3,010	1,550	2.0	86	--	86	--
100+00'C' - 104+44'C'	LT	560	120	0.4	--	2	--	4
UNDISTRIBUTED		4,820	3,000	6.7	247	--	250	--
STAGE 2 SUBTOTALS		29,000	18,000	36	1,487	2	1,490	4
STAGE 3A AND STAGE 3B								
17+90 - 23+19'SB'	RT	1,790	410	1.1	48	--	48	--
19+70'SB' - 47+10'SB'	LT	1,970	1,740	11.7	501	--	501	--
231+00'WB' - 245+30'WB'	LT	2,620	1,760	2.2	95	--	95	--
301+40"A' - 304+50'A'	RT	1,440	1,440	0.9	39	--	39	--
SPECIAL DITCH AREA		--	28,100	--	--	101	--	202
UNDISTRIBUTED		1,680	6,550	3.0	135	17	137	34
STAGE 3 SUBTOTALS		9,500	40,000	19	818	118	820	236
STAGE 4A								
10+88'NB' - 14+75'NB'	LT	450	410	0.3	12	--	12	--
31+50'NB' - 35+00'NB'	LT	470	--	0.3	13	--	13	--
234+20'EB' - 235+70'EB'	LT	170	--	0.1	5	--	5	--
UNDISTRIBUTED		210	90	0.3	5	--	10	--
STAGE 4A SUBTOTALS		1,300	500	1	35	--	40	--
TOTALS		**39,800**	**58,500**	**56**	**2,340**	**120**	**2,350**	**240**

SILT FENCE ITEMS

STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 MAINTENANCE LF
CATEGORY CODE 0010			
STAGE 1			
10+90'NB' - 14+00'NB'	RT	310	620
17+50'NB' - 22+50'NB'	RT	500	1,000
28+00'NB' - 232+50'EB'	RT	430	860
33+00'NB' - 37+00'NB'	RT	400	800
38+00'SB' - 47+10'SB'	LT	910	1,820
39+50'NB'+ 41+50'NB'	RT	200	400
44+50'NB' - 47+10'NB'	RT	260	520
232+00'WB' - 237+00'WB'	LT	500	1,000
234+50'EB' - 236+00'EB'	RT	150	300
237+00'WB' - 239+00'WB'	LT	200	400
239+50'EB' - 240+00'EB'	RT	50	100
241+00'WB' - 245+30'WB'	LT	430	860
301+40'A' - 303'A'+50	LT	210	420
312+00'A' - 314+45'A'	RT	245	490
0+00'SD' - 13+00'SD'	LT	900	1,800
UNDISTRIBUTED		1,265	2,530
	TOTALS	**6,650**	**13,300**

EROSION CONTROL MOBILIZATIONS ITEMS

LOCATION	628.1905 EROSION CONTROL EACH	628.1910 EMERGENCY EROSION CONTROL EACH
CATEGORY CODE 0010		
STAGE 1	1	1
STAGE 2	2	2
STAGE 3A	2	2
STAGE 3B	1	1
STAGE 4	1	1
TOTALS	**7**	**7**

EROSION MAT ITEMS

STATION - STATION	LOCATION	628.2004 CLASS 1 TYPE B SY	628.2006 URBAN CLASS 1 TYPE A SY
CATEGORY CODE 0010			
STAGE 1			
UNDISTRIBUTED		140	140
	STAGE 1	140	140
STAGE 2			
20+00'NB' - 29+50'NB'	LT	--	700
22+00'NB' - 29+50'NB'	RT	600	880
23+00'SB' - 30+00'SB'	RT	--	460
23+00'SB' - 30+00'SB'	LT	410	
31+50'NB' - 46+50'NB'	RT	760	170
31+50'NB' - 46+50'NB'	LT	--	300
31+00'SB' - 38+00'SB'	LT	630	370
232+00'EB' - 247+50'EB'	RT	850	240
231+50'EB' - 234+50'EB'	LT	--	470
231+00'WB' - 234+00'WB'	LT	--	440
300+50'A' - 312+00'A'	RT	780	460
301+50'A' - 314+450'A'	LT	700	100
100+00'C' - 104+44'C'	RT	--	340
UNDISTRIBUTED		970	1,140
	STAGE 2 SUBTOTALS	5,700	6,070
STAGE 3A			
17+90'SB' - 23+00'SB'	RT	270	1,100
17+00'SB' - 25+00'SB'	LT	230	--
1+00'SD' - 13+30'SD	LT & RT	1,800	--
234+00'WB' - 245+00'WB'	LT	740	120
503+00'SBRT' - 503+50'SBRT'	LT & RT	50	60
UNDISTRIBUTED		310	820
	STAGE 3A SUBTOTALS	3,400	2,100
STAGE 3B			
32+25'NB' - 32+75'NB'	RT	--	80
UNDISTRIBUTED		100	50
	STAGE 3B SUBTOTALS	100	130
STAGE 4A			
11+00'NB' - 17+90'NB'	LT	40	--
31+50'NB' - 35+00'NB'	LT	--	470
234+20'EB' - 235+70'EB'	LT	--	170
UNDISTRIBUTED		20	20
	STAGE 4A SUBTOTALS	60	660
	TOTALS	**9,400**	**9,100**

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 CULVERT PIPE CHECKS EACH	633.5200 MARKERS CULVERT END EACH
CATEGORY CODE 0010			
STAGE 1			
18+10'NB'	LT	2	--
	STAGE 1 SUBTOTALS	2	--
STAGE 2			
39+50'NB'	RT	2	1
40+43'NB'	RT	2	1
308+50'A'	LT	2	1
310+43'A'	LT	2	--
UNDISTRIBUTED		2	--
	STAGE 2 SUBTOTALS	10	3
STAGE 3A			
240+02'WB'	LT	2	--
	STAGE 3A SUBTOTALS	2	--
	TOTAL	**14**	3 XX

XX QUANTITIES LISTED ELSEWHERE

TEMPORARY DITCH CHECKS

STATION - STATION	LOCATION	628.7504 LF
CATEGORY CODE 0010		
STAGE 1		
UNDISTRIBUTED		24
	STAGE 1 SUBTOTALS	24
STAGE 2		
UNDISTRIBUTED		120
	STAGE 2 SUBTOTALS	120
STAGE 3A		
UNDISTRIBUTED		120
	STAGE 3A SUBTOTALS	120
	TOTALS	**264**

INLET PROTECTION

STRUCTURE NO.	628.7005 TYPE A EA	628.7015 TYPE C EA
CATEGORY CODE 0010		
IN2.1	1	1
IN2.2	1	1
IN2.3	1	1
IN3.1	1	1
IN3.2	1	1
IN3.3	1	1
IN3.4	1	1
IN3.5	1	1
IN3.6	1	1
IN3.7	1	1
IN4.1	1	---
IN5.1	1	1
IN5.2	1	1
IN5.3	1	1
IN6.1	1	1
IN6.2	1	1
IN8.1	1	1
IN8.2	1	1
IN8.3	1	1
IN8.4	1	1
IN8.5	1	1
IN8.6	1	1
IN9.1	1	1
IN9.2	1	1
IN9.3	1	1
IN9.4	1	1
IN9.5	1	1
IN9.6	1	1
IN10.1	1	1
IN10.2	1	1
IN10.3	1	1
IN10.4	1	1
IN11.1	1	1
IN11.2	1	1
IN12.1	1	1
IN12.2	1	1
IN12.3	1	1
IN12.4	1	1
TOTALS	38	37

TYPE I SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIGN MESSAGE	STRUCTURE ID SIGN AS	637.1220 SIGNS TYPE I REFLECTIVE SH W" x H"	S.F.
	CATEGORY 0020					
501A	NB STH 35	E6-54L	STH 35 NORTH; SUPERIOR; ONLY	S-07-0002	96 x 90	60.00
501B	NB STH 35	E6-54	STH 70 EAST; SPOONER	S-07-0002	84 x 90	52.50
				TOTALS		**112.50**

TYPE II SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIGN MESSAGE	STRUCTURE ID OR MOUNTED ON SAME POST/ SIGN AS	REMARKS	637.2210 SIGNS TYPE II REFLECTIVE H W" x H"	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F W" x H"	637.2230 SIGNS TYPE II REFLECTIVE F S.F.
	CATEGORY 0010								
401	NB STH 35	R3-20L				36 x 54	13.50	x	0.00
402	NB STH 35	R5-1A			FACES SB	42 x 30	8.75	x	0.00
403	NB STH 35	W12-1D			MOUNT AT 2-FT	30 x 30	6.25	x	0.00
404A	NB STH 35	W2-6				x	0.00	36 x 36	9.00
404B	NB STH 35	W13-1	15	404A		x	0.00	24 x 24	4.00
405A	NB STH 35	W2-6				x	0.00	36 x 36	9.00
405B	NB STH 35	W13-1	15	405A		x	0.00	24 x 24	4.00
406A	NB STH 35	R6-2R			FACES WB LIND RD	30 x 36	7.50	x	0.00
406B	NB STH 35	R5-1		406A	FACES EB AIRPORT RD	36 x 36	9.00	x	0.00
407A	WB LIND RD	R6-1R		407B	MOUNT ABOVE 407B	36 x 12	3.00	x	0.00
407B	WB LIND RD	R1-1				36 x 36	7.46	x	0.00
408	WB LIND RD	R3-53R				24 x 30	5.00	x	0.00
409	NB STH 35	R5-1			FACES SB	36 x 36	9.00	x	0.00
410	NB STH 35	D1-62	EAST STH 70 NORTH STH 35			72 x 84	42.00	x	0.00
411	NB STH 35	W3-2				x	0.00	36 x 36	9.00
412	SB STH 35	R5-1A			FACES NB	42 x 30	8.75	x	0.00
413A	WB AIRPORT RD	W1-1L				x	0.00	36 x 36	9.00
413B	WB AIRPORT RD	W13-1	30	413A		x	0.00	24 x 24	4.00
414	SB STH 35	W12-1D			MOUNT AT 2-FT	30 x 30	6.25	x	0.00
415	SB STH 35	R5-1			FACES NB	36 x 36	9.00	x	0.00
416A	SB STH 35	R6-2R			FACES EB AIRPORT RD	30 x 36	7.50	x	0.00
416A	SB STH 35	R5-1		416A	FACES NB LIND RD	36 x 36	9.00	x	0.00
417A	EB AIRPORT RD	R1-1				30 x 30	5.18	x	0.00
417B	EB AIRPORT RD	W4-4AL			MOUNT BELOW 417A	42 x 15	4.37	x	0.00
418	EB AIRPORT RD	W1-7			FACES WB	x	0.00	48 x 24	8.00
419A	EB AIRPORT RD	R6-1R		407B	MOUNT ABOVE 419B	36 x 12	3.00	x	0.00
419B	EB AIRPORT RD	R1-1				36 x 36	7.46	x	0.00
420A	NB W SERVICE RD	R1-1				30 x 30	5.18	x	0.00
420B	NB W SERVICE RD	W4-4AR			MOUNT BELOW 420A	42 x 15	4.37	x	0.00
421	EB AIRPORT RD	R3-53R				24 x 30	5.00	x	0.00
502	NB STH 35	R3-4B				36 x 48	12.00	x	0.00
503	SB STH 35	R3-4B				36 x 48	12.00	x	0.00
504	NB STH 35	R3-8JJ				36 x 30	7.50	x	0.00
505	NB STH 35	R3-8JJ				36 x 30	7.50	x	0.00
507A	NB STH 35	R1-2			MOUNT AT 7.25-FT	48 x 42	7.00	x	0.00
507B	NB STH 35	R6-2R		507A	MOUNT BELOW 507A	30 x 36	7.50	x	0.00
508A	NB STH 35	R1-2			MOUNT AT 7.25-FT	48 x 42	7.00	x	0.00
508B	NB STH 35	R1-54		508A	MOUNT BELOW 508A	24 x 15	2.50	x	0.00
509A	NB STH 35 CENTRAL ISLAND	R6-1R		509B	MOUNT ABOVE 509B	54 x 18	6.75	x	0.00
509B	NB STH 35 CENTRAL ISLAND	R6-4B			MOUNT AT 4-FT	60 x 24	10.00	x	0.00
					SUBTOTALS		266.28		56.00

(CONTINUED ON NEXT SHEET)

TYPE II SIGNS (CONTINUED)

SIGN NO.	LOCATION	SIGN CODE	SIGN MESSAGE	STRUCTURE ID OR MOUNTED ON SAME POST/ SIGN AS	REMARKS	637.2210 SIGNS TYPE II REFLECTIVE H		637.2230 SIGNS TYPE II REFLECTIVE F	
						W" x H"	S.F.	W" x H"	S.F.
510	SB STH 35	D2-1	SOUTH STH 35 WEST STH 70			72 x 30	15.00	x	0.00
511	SB STH 35	W4-3R				36 x 36	9.00	x	0.00
512	SB STH 35	J4-2			REASSURANCE ASSEMBLY	72 x 54	27.00	x	0.00
		M3-3				30 x 18			
		M1-6	35			36 x 36			
		M3-4				30 x 18			
		M1-6	70			36 x 36			
513	SB STH 35	R2-1	55			36 x 48	12.00	x	0.00
514	SB STH 35	R3-20L				36 x 54	13.50	x	0.00
515	SB STH 35	D2-2	SIREN 2 GRANTSBURG 18			84 x 24	14.00	x	0.00
516	WB AIRPORT RD	W1-6				x	0.00	48 x 24	8.00
517	WB AIRPORT RD	W1-6			FACES EB	x	0.00	48 x 24	8.00
518	WB AIRPORT RD	R2-1	55			24 x 30	5.00	x	0.00
519A	EB AIRPORT RD	W1-1L				x	0.00	36 x 36	9.00
519B	EB AIRPORT RD	W13-1	30	519A		x	0.00	24 x 24	4.00
520	SB STH 35	W4-3R				36 x 36	9.00	x	0.00
521A	NB STH 35	W11-6				x	0.00	36 x 36	9.00
521B	NB STH 35	W16-9P		521A		x	0.00	30 x 18	3.75
522A	NB STH 35	W11-6				x	0.00	36 x 36	9.00
522B	NB STH 35	W16-7L		522A		x	0.00	30 x 18	3.75
523A	SB STH 35	W11-6				x	0.00	36 x 36	9.00
523B	SB STH 35	W16-7L		523A		x	0.00	30 x 18	3.75
524A	SB STH 35	W11-6				x	0.00	36 x 36	9.00
524B	SB STH 35	W16-9P		524A		x	0.00	30 x 18	3.75
525A	SB STH 35	W11-6				x	0.00	36 x 36	9.00
525B	SB STH 35	W16-9P		525A		x	0.00	30 x 18	3.75
601A	SB STH 35 CENTRAL ISLAND	R6-1R		509B	MOUNT ABOVE 601B	54 x 18	6.75	x	0.00
601B	SB STH 35 CENTRAL ISLAND	R6-4B			MOUNT AT 4-FT	60 x 24	10.00	x	0.00
602	NB STH 35	D1-1	NORTH STH 35			42 x 30	8.75	x	0.00
604A	NB STH 35	J4-1			REASSURANCE ASSEMBLY	24 x 36	6.00	x	0.00
		M3-1				24 x 12			
		M1-6	35			24 x 24			
604B	NB STH 35	R5-1A		604A	FACES SB	36 x 24	6.00	x	0.00
605A	NB STH 35	R2-1	55			24 x 30	5.00	x	0.00
605B	NB STH 35	R5-1		604A	FACES SB	30 x 30	6.25	x	0.00
606	NB STH 35	D2-2	WEBSTER 4 SUPERIOR 69			72 x 24	12.00	x	0.00
					SUBTOTALS		165.25		92.75

(CONTINUED ON NEXT SHEET)

TYPE II SIGNS (CONTINUED)

SIGN NO.	LOCATION	SIGN CODE	SIGN MESSAGE	STRUCTURE ID OR MOUNTED ON SAME POST/ SIGN AS	REMARKS	637.2210 SIGNS TYPE II REFLECTIVE H W" x H"	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F W" x H"	637.2230 SIGNS TYPE II REFLECTIVE F S.F.
607	NB STH 35	J1-1			JUNCTION ASSEMBLY	24 x 39	6.50	x	0.00
		M2-1				21 x 15			
		M1-5A	K			24 x 24			
609	NB STH 35	J13-1		613B		24 x 45	7.50	x	0.00
		I5-1	AIRPORT			24 x 24			
		MK6-1	LEFT		WHITE ARROW ON GREEN BACKGROUND	21 x 21			
610	SB STH 35	J1-1			JUNCTION ASSEMBLY	24 x 39	6.50	x	0.00
		M2-1				21 x 15			
		M1-6	70			24 x 24			
611	SB STH 35	D1-2	< SPOONER SIREN >			66 x 30	13.75	x	0.00
614A	SB STH 35	R4-7				24 x 30	5.00	x	0.00
614B	SB STH 35	W5-54		614A	MOUNT AT 4-FT	x	0.00	18 x 18	2.25
615A	SB STH 35	W2-6				x	0.00	30 x 30	6.25
615B	SB STH 35	W13-1	15	615A		x	0.00	18 x 18	2.25
618	SB STH 35	D1-62	EAST STH 70 SOUTH STH 35 WEST STH 70			120 x 42	35.00	x	0.00
619	SB STH 35	W3-2				x	0.00	36 x 36	9.00
621	SB STH 35	R3-8HH				36 x 30	7.50	x	0.00
624A	SB STH 35	R1-2			MOUNT AT 7.25-FT	36 x 31	3.88	x	0.00
624B	SB STH 35	R6-2R		624A	MOUNT BELOW 624A	24 x 30	5.00	x	0.00
625	SB STH 35	W12-1D			MOUNT AT 2-FT	x	0.00	30 x 30	6.25
626	SB STH 35	W1-6				x	0.00	48 x 24	8.00
627A	SB STH 35	R1-2			MOUNT AT 7.25-FT	36 x 31	3.88	x	0.00
627B	SB STH 35	R1-54		627A	MOUNT BELOW 627A	24 x 15	2.50	x	0.00
700	NB STH 35	R5-1A			FACES SB	36 x 24	6.00	x	0.00
701A	NB STH 35	J13-1		613B		24 x 45	7.50	x	0.00
		M1-5A	K			24 x 24			
		MK6-1	LEFT			21 x 21			
701B	NB STH 35	R5-1		701A	FACES SB	30 x 30	6.25	x	0.00
801	EB STH 70	D1-1	EAST STH 70			42 x 30	8.75	x	0.00
802A	EB STH 70	J4-1			REASSURANCE ASSEMBLY	24 x 36	6.00	x	0.00
		M3-2				24 x 12			
		M1-6	70			24 x 24			
802B	EB STH 70	R5-1A		802A	FACES WB	36 x 24	6.00	x	0.00
803	EB STH 70	R5-1			FACES WB	30 x 30	6.25	x	0.00
804	EB STH 70	W6-2				36 x 36	9.00	x	0.00
805	EB STH 70	R2-1	55			24 x 30	5.00	x	0.00
806	EB STH 70	D2-2	HERTEL 10 SPOONER 24			72 x 24	12.00	x	0.00
					SUBTOTALS		169.76		34.00

(CONTINUED ON NEXT SHEET)

TYPE II SIGNS (CONTINUED)

SIGN NO.	LOCATION	SIGN CODE	SIGN MESSAGE	STRUCTURE ID OR MOUNTED ON SAME POST/ SIGN AS	REMARKS	637.2210 SIGNS TYPE II REFLECTIVE H W" x H"	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F W" x H"	637.2230 SIGNS TYPE II REFLECTIVE F S.F.
627A	SB STH 35	R1-2			MOUNT AT 7.25-FT	36 x 31	3.88	x	0.00
627B	SB STH 35	R1-54		627A	MOUNT BELOW 627A	24 x 15	2.50	x	0.00
700	NB STH 35	R5-1A			FACES SB	36 x 24	6.00	x	0.00
701A	NB STH 35	J13-1		613B		24 x 45	7.50	x	0.00
		M1-5A	K			24 x 24			
		MK6-1	LEFT			21 x 21			
701B	NB STH 35	R5-1		701A	FACES SB	30 x 30	6.25	x	0.00
801	EB STH 70	D1-1	EAST STH 70			42 x 30	8.75	x	0.00
802A	EB STH 70	J4-1			REASSURANCE ASSEMBLY	24 x 36	6.00	x	0.00
		M3-2				24 x 12			
		M1-6	70			24 x 24			
802B	EB STH 70	R5-1A		802A	FACES WB	36 x 24	6.00	x	0.00
803	EB STH 70	R5-1			FACES WB	30 x 30	6.25	x	0.00
804	EB STH 70	W6-2				36 x 36	9.00	x	0.00
805	EB STH 70	R2-1	55			24 x 30	5.00	x	0.00
806	EB STH 70	D2-2	HERTEL 10 SPOONER 24			72 x 24	12.00	x	0.00
808A	WB STH 70	W2-6				x	0.00	30 x 30	6.25
808B	WB STH 70	W13-1	15	808A		x	0.00	18 x 18	2.25
809	WB STH 70	D1-62	SOUTH STH 35 WEST STH 70 NORTH STH 35			84 x 84	49.00	x	0.00
810	WB STH 70	W3-2				x	0.00	36 x 36	9.00
811A	WB STH 70	R4-7				24 x 30	5.00	x	0.00
811B	WB STH 70	W5-54		811A	MOUNT AT 4-FT	x	0.00	18 x 18	2.25
812	WB STH 70	D1-2	^ SIREN SUPERIOR>			66 x 30	13.75	x	0.00
814A	WB STH 70	R1-2			MOUNT AT 7.25-FT	36 x 31	3.88	x	0.00
814B	WB STH 70	R6-2R		814A	MOUNT BELOW 814A	24 x 30	5.00	x	0.00
815A	WB STH 70	R1-2			MOUNT AT 7.25-FT	36 x 31	3.88	x	0.00
815B	WB STH 70	R1-54		815A	MOUNT BELOW 815A	24 x 15	2.50	x	0.00
817A	WB STH 70 CENTRAL ISLAND	R6-1R		817B	MOUNT ABOVE 817B	54 x 18	6.75	x	0.00
817B	WB STH 70 CENTRAL ISLAND	R6-4B			MOUNT AT 4-FT	60 x 24	10.00	x	0.00
901	EB STH 70	W6-3				x	0.00	36 x 36	9.00
902	EB STH 70	W14-3			FACES WB	x	0.00	48 x 36	6.00
903	WB STH 70	W6-1				x	0.00	36 x 36	9.00
904	WB STH 70	J1-1			JUNCTION ASSEMBLY	24 x 39	6.50	x	0.00
		M2-1				21 x 15	2.19		
		M1-6	35			24 x 24	4.00		
					SUBTOTALS		191.58		43.75
					TOTALS		**792.87**		**226.50**

TYPE II SIGN SUPPORTS

SIGN NO.	634.0612 POSTS WOOD 4"x6"x12' EACH	634.0614 POSTS WOOD 4"x6"x14' EACH	634.0616 POSTS WOOD 4"x6"x16' EACH	634.0618 POSTS WOOD 4"x6"x18' EACH	634.0620 POSTS WOOD 4"x6"x20' EACH	634.0808 POSTS TUBULAR STEEL 2"x2"x8' EACH	634.0810 POSTS TUBULAR STEEL 2"x2"x10' EACH	634.0814 POSTS TUBULAR STEEL 2"x2"x14' EACH
401			1					
402		1						
403	1							
404A				1				
404B								
405A				1				
405B								
406A		1						
406B								
407A								
407B			1					
408		1						
409				1				
410					2			
411			1					
412		1						
413A				1				
413B								
414	1							
415		1						
416A		1						
416B								
417A		1						
417B								
418		1						
419A								
419B			1					
420A		1						
420B								
421		1						
502			1					
503			1					
504		1						
505		1						
507A								
507B								
508A								
508B								
509A								
509B						2		
SUBTOTALS	2	12	6	4	2	0	0	0

(CONTINUED)

TYPE II SIGN SUPPORTS (CONTINUED)

SIGN NO.	634.0612 POSTS WOOD 4"x6"x12' EACH	634.0614 POSTS WOOD 4"x6"x14' EACH	634.0616 POSTS WOOD 4"x6"x16' EACH	634.0618 POSTS WOOD 4"x6"x18' EACH	634.0620 POSTS WOOD 4"x6"x20' EACH	634.0808 POSTS TUBULAR STEEL 2"x2"x8' EACH	634.0810 POSTS TUBULAR STEEL 2"x2"x10' EACH	634.0814 POSTS TUBULAR STEEL 2"x2"x14' EACH
510		2						
511			1					
512			2					
513		1						
514			1					
515		2						
516		1						
517		1						
518		1						
519A				1				
519B								
520			1					
521A			1					
521B								
522A			1					
522B								
523A			1					
523B								
524A			1					
524B								
525A			1					
525B								
601A								
601B						2		
602		1						
604A		1						
604B								
605A		1						
605B								
606		2						
SUBTOTALS	0	13	10	1	0	2	0	0

(CONTINUED ON NEXT SHEET)

TYPE II SIGN SUPPORTS (CONTINUED)

SIGN NO.	634.0612 POSTS WOOD 4"x6"x12' EACH	634.0614 POSTS WOOD 4"x6"x14' EACH	634.0616 POSTS WOOD 4"x6"x16' EACH	634.0618 POSTS WOOD 4"x6"x18' EACH	634.0620 POSTS WOOD 4"x6"x20' EACH	634.0808 POSTS TUBULAR STEEL 2"x2"x8' EACH	634.0810 POSTS TUBULAR STEEL 2"x2"x10' EACH	634.0814 POSTS TUBULAR STEEL 2"x2"x14' EACH
607		1						
609			1					
610		1						
611		2						
614A		1						
614B								
615A			1					
615B								
618			2					
619			1					
621		1						
624A								1
624B								
625							1	
626								1
627A								1
627B								
700		1						
701A			1					
701B								
801		1						
802A								
802B		1						
803			1					
804		1						
805		1						
806		2						
SUBTOTALS	0	13	7	0	0	0	1	3

(CONTINUED)

TYPE II SIGN SUPPORTS (CONTINUED)

SIGN NO.	634.0612 POSTS WOOD 4"x6"x12' EACH	634.0614 POSTS WOOD 4"x6"x14' EACH	634.0616 POSTS WOOD 4"x6"x16' EACH	634.0618 POSTS WOOD 4"x6"x18' EACH	634.0620 POSTS WOOD 4"x6"x20' EACH	634.0808 POSTS TUBULAR STEEL 2"x2"x8' EACH	634.0810 POSTS TUBULAR STEEL 2"x2"x10' EACH	634.0814 POSTS TUBULAR STEEL 2"x2"x14' EACH
627A								1
627B								
700		1						
701A			1					
701B								
801		1						
802A								
802B		1						
803			1					
804		1						
805		1						
806		2						
808A		1						
808B								
809					2			
810			1					
811A			1					
811B								
812		2						
814A								1
814B								
815A								1
815B								
817A								
817B						2		
901			1					
902			1					
903			1					
807		1						
SUBTOTALS	0	11	7	0	2	2	0	3
TOTALS	**2**	**49**	**30**	**5**	**4**	**4**	**1**	**6**

REMOVING SIGNS AND SUPPORTS

SIGN NO.	LOCATION	MOUNTED ON SAME POST/ ASSEMBLY AS	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
101	NB STH 35		1	1	
102A	NB STH 35		1	1	
102B	NB STH 35	102A	1		FACES SB
103	NB STH 35		1	1	FACES SB
105A	WB LIND RD		1	1	
105B	WB LIND RD	105A	1		
106A	WB LIND RD		1	1	FACES EB
106B	WB LIND RD	106A	1		
107A	NB STH 35		1	2	
107B	NB STH 35	107A	1		
107C	NB STH 35	107A	1		
107D	NB STH 35	107A	1		
107E	NB STH 35	107A	1		
107F	NB STH 35	107A	1		
107G	NB STH 35	107A	1		FACES SB
108	NB STH 35		1	1	FACES SB
109	NB STH 35		1	2	
110	SB STH 35		1	1	
111	SB STH 35		1	1	
112A	SB STH 35		1	1	
112B	SB STH 35	112A	1		FACES NB
113	SB STH 35		1	1	FACES NB
114	SB W SERVICE RD		1	1	
115	NB W SERVICE RD		1	1	
116A	EB W SERVICE RD		1	1	
116B	EB W SERVICE RD	116A	1		
117A	EB W SERVICE RD		1	1	
117B	EB W SERVICE RD	117A	1		FACES WB
118A	NB STH 35		1	1	RETURN SIGNS TO LOCALS
118B	NB STH 35	118A	1		RETURN SIGNS TO LOCALS
201	NB STH 35		1	1	
202	NB STH 35		1	1	
203	NB STH 35		1	1	FACES SB
204	NB STH 35		1	1	FACES SB
205A	NB STH 35		1	2	
205B	NB STH 35	205A	1		
205C	NB STH 35	205A	1		
205D	NB STH 35	205A	1		
205E	NB STH 35	205A	1		
205F	NB STH 35	205A	1		
205G	NB STH 35	205A	1		FACES SB
206	NB STH 35		1	1	FACES WB
207	NB STH 35		1	1	FACES EB
208A	NB STH 35		1	1	FACES EB
208B	NB STH 35	208A	1		FACES WB
209A	WB STH 70		1		ON SIGNAL BEACON POLE
209B	WB STH 70	209A	1		
210A	WB STH 70		1	2	
210B	WB STH 70	210A	1		
	SUBTOTAL		49	30	

(CONTINUED)

REMOVING SIGNS AND SUPPORTS (CONTINUED)

SIGN NO.	LOCATION	MOUNTED ON SAME POST/ ASSEMBLY AS	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
210C	WB STH 70	210A	1		
210D	WB STH 70	210A	1		
210E	WB STH 70	210A	1		
210F	WB STH 70	210A	1		
210G	WB STH 70	210A	1		
210H	WB STH 70	210A	1		
210I	WB STH 70	210A	1		
211	WB STH 70		1	1	
212	WB STH 70		1	1	
213A	WB STH 70		1	1	
213B	WB STH 70	213A	1		FACES EB
214A	NB STH 35	214B	1		
214B	NB STH 35		1	2	
214C	NB STH 35	214B	1		
214D	NB STH 35	214B	1		
215	NB STH 35		1	1	
216	NB STH 35		1	1	
217	SB STH 35		1	1	
218A	SB STH 35		1	1	
218B	SB STH 35	218A	1		FACES NB
219A	SB STH 35		1	2	
219B	SB STH 35	219A	1		
219C	SB STH 35	219A	1		
219D	SB STH 35	219A	1		
219E	SB STH 35	219A	1		
219F	SB STH 35	219A	1		
219G	SB STH 35	219A	1		
219H	SB STH 35	219A	1		
219I	SB STH 35	219A	1		
219J	SB STH 35	219A	1		FACES NB
220	SB STH 35		1		FACES WB
221A	SB STH 35		1	1	FACES WB
221B	SB STH 35	221A	1		FACES WB
222	EB AIRPORT RD		1	1	
223A	WB AIRPORT RD		1	1	
223B	WB AIRPORT RD	223A	1		
224A	EB AIRPORT RD		1	1	
224B	EB AIRPORT RD	224A	1		
225A	EB AIRPORT RD		1	1	
225B	EB AIRPORT RD	225A	1		FACES WB
226A	SB STH 35		1	1	
226B	SB STH 35	226A	1		
227A	SB STH 35	227E	1		
227B	SB STH 35	227E	1		
227C	SB STH 35	227E	1		
227D	SB STH 35	227E	1		
227E	SB STH 35		1	2	
228	NB STH 35		1	1	
229	NB STH 35		1	1	
230A	NB STH 35		1	1	
	SUBTOTAL		50	22	

(CONTINUED)

REMOVING SIGNS AND SUPPORTS (CONTINUED)

SIGN NO.	LOCATION	MOUNTED ON SAME POST/ ASSEMBLY AS	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
230B	NB STH 35	230A	1		
230C	NB STH 35	230A	1		FACES SB
231A	NB STH 35		1	1	
231B	NB STH 35	231A	1		FACES SB
232A	NB STH 35		1	1	FACES EB
232B	NB STH 35	232A	1		FACES WB
233A	NB STH 35		1	1	
233B	NB STH 35	233A	1		
234	NB STH 35		1	1	FACES SB
235	NB STH 35		1	1	FACES SB
236	SB STH 35		1	1	
237	SB STH 35		1	1	FACES NB
238	SB STH 35		1	1	
239A	SB STH 35		1	1	
239B	SB STH 35	239A	1		
239C	SB STH 35	239A	1		FACES NB
240	SB STH 35		1	1	FACES WB
241A	SB STH 35		1	2	
241B	SB STH 35	241A	1		
241C	SB STH 35	241A	1		
241D	SB STH 35	241A	1		
241E	SB STH 35	241A	1		
241F	SB STH 35	241A	1		
241G	SB STH 35	241A	1		
241H	SB STH 35	241A	1		
241I	SB STH 35	241A	1		
242	SB STH 35		1	2	
243	NB STH 35		1	1	
244	NB STH 35		1		
301A	EB STH 70		1	1	
301B	EB STH 70	301A	1		FACES WB
302A	EB STH 70	302C	1		
302B	EB STH 70	302C	1		
302C	EB STH 70		1	2	
303	EB STH 70		1	1	
304A	EB STH 70		1	1	
304B	EB STH 70	304A	1		FACES WB
305A	EB STH 70		1	1	
305B	EB STH 70	305A	1		FACES WB
306A	WB STH 70		1	1	
306B	WB STH 70	306A	1		
307	WB STH 70		1	1	
308A	WB STH 70		1	2	
308B	WB STH 70	308A	1		
308C	WB STH 70	308A	1		
308D	WB STH 70	308A	1		
308E	WB STH 70	308A	1		
308F	WB STH 70	308A	1		
308G	WB STH 70	308A	1		
308H	WB STH 70	308A	1		
308I	WB STH 70	308A	1		
309	WB STH 70		1	2	
310A	WB STH 70		1	1	RETURN SIGNS TO LOCALS
310B	WB STH 70	310A	1		RETURN SIGNS TO LOCALS
	SUBTOTAL		54	28	
	TOTAL		**153**	**80**	

OVERHEAD SIGN SUPPORT STRUCTURE ITEMS

STRUCTURE NUMBER	LOCATION	OVERHEAD SIGN SUPPORT STRUCTURE LS	CONSTRUCTION STAKING STRUCTURE LAYOUT L.S.
CATEGORY 0020			
S-07-0002	NB STH 35, S OF ROUNDABOUT	**641.8100.01**	**650.6500.01**

TRAFFIC CONTROL ITEMS

CATEGORY 0010		643.0300 DRUMS		643.0420 BARRICADES TYPE III		643.0500 FLEXIBLE TUBULAR MARKER POST EACH	643.0600 FLEXIBLE TUBULAR MARKER BASE EACH	643.0705 WARNING LIGHTS TYPE A		643.0715 WARNING LIGHTS TYPE C		643.0800 ARROW BOARDS		643.0900 SIGNS		643.1050 PCMS		646.0600 REMOVING PAVEMENT MARKINGS L.F.
STAGE	**DAYS**	**NO.**	**DAYS**	**NO.**	**DAYS**			**NO.**	**DAYS**	**NO.**	**DAYS**	**NO.**	**DAYS**	**NO.**	**DAYS**	**NO.**	**DAYS**	
STAGE 1																		
STH 35/70 (S)	12	128	1,536	1	12	--	--	2	24	26	312	4	48	20	240	1	12	534
STH 35 (N)	12	25	300	--	--	--	--	--	--	10	120	--	--	5	60	1	12	--
AIRPORT RD (W)	12	--	--	--	--	--	--	--	--	--	--	--	--	4	48	1	12	--
STH 70 (E)	12	34	408	--	--	--	--	--	--	--	--	--	--	9	108	1	12	--
SUBTOTALS:		**187**	**2,244**	**1**	**12**	**0**	**0**	**2**	**24**	**36**	**432**	**4**	**48**	**38**	**456**	**4**	**48**	**534**
STAGE 2																		
STH 35/70 (S)	69	119	8,211	23	1,587	17	17	30	2,070	29	2,001	2	138	42	2,898	1	69	--
STH 35 (N)	69	73	5,037	11	759	27	27	14	966	17	1,173	--	--	17	1,173	1	69	286
AIRPORT RD (W)	69	--	--	--	--	--	--	--	--	--	--	--	--	2	138	1	69	--
STH 70 (E)	69	146	10,074	8	552	27	27	14	966	20	1,380	--	--	25	1,725	1	69	1,658
SERVICE RD	69	--	--	--	--	--	--	--	--	--	--	--	--	3	207	--	--	--
SUBTOTALS:		**338**	**23,322**	**42**	**2,898**	**71**	**71**	**58**	**4,002**	**66**	**4,554**	**2**	**138**	**89**	**6,141**	**4**	**276**	**1,944**
STAGE 3A																		
STH 35/70 (S)	32	113	3,616	17	544	11	11	24	768	41	1,312	2	64	32	1,024	1	32	--
STH 35 (N)	32	115	3,680	13	416	24	24	20	640	29	928	--	--	39	1,248	1	32	--
AIRPORT RD (W)	32	--	--	--	--	--	--	--	--	--	--	--	--	2	64	1	32	--
STH 70 (E)	32	80	2,560	1	32	22	22	2	64	42	1,344	--	--	29	928	1	32	1,411
CIRCLE	32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTALS:		**308**	**9,856**	**31**	**992**	**57**	**57**	**46**	**1,472**	**112**	**3,584**	**2**	**64**	**102**	**3,264**	**4**	**128**	**1,411**
STAGE 3B																		
STH 35/70 (S)	12	113	1,356	17	204	10	10	24	288	37	444	2	24	31	372	1	12	--
STH 35 (N)	12	48	576	7	84	--	--	10	120	--	--	--	--	21	252	1	12	--
AIRPORT RD (W)	12	--	--	--	--	--	--	--	--	--	--	--	--	2	24	1	12	--
STH 70 (E)	12	80	960	1	12	22	22	2	24	42	504	--	--	29	348	1	12	--
CIRCLE	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTALS:		**241**	**2,892**	**25**	**300**	**32**	**32**	**36**	**432**	**79**	**948**	**2**	**24**	**83**	**996**	**4**	**48**	**0**
STAGE 4A																		
STH 35/70 (S)	17	93	1,581	3	51	--	--	4	68	21	357	2	34	24	408	1	17	--
STH 35 (N)	17	46	782	--	--	--	--	--	--	--	5	2	34	10	170	1	17	--
AIRPORT RD (W)	17	--	--	--	--	--	--	--	--	--	--	--	--	2	34	1	17	--
STH 70 (E)	17	20	340	--	--	--	--	--	--	3	51	--	--	6	102	1	17	--
CIRCLE	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTALS:		**159**	**2,703**	**3**	**51**	**0**	**0**	**4**	**68**	**24**	**413**	**4**	**68**	**42**	**714**	**4**	**68**	**0**
STAGE 4B																		
STH 35/70 (S)	10	--	--	--	--	--	--	--	--	--	--	--	--	13	130	1	10	--
STH 35 (N)	10	--	--	--	--	--	--	--	--	--	--	--	--	5	50	1	10	--
AIRPORT RD (W)	10	--	--	--	--	--	--	--	--	--	--	--	--	4	40	1	10	--
STH 70 (E)	10	--	--	--	--	--	--	--	--	--	--	--	--	3	30	1	10	--
CIRCLE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTALS:		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**25**	**250**	**4**	**40**	**0**
TOTALS:		**1,074**	**38,314**	**99**	**4,202**	**160**	**160**	**142**	**5,930**	**317**	**9,931**	**14**	**342**	**379**	**11,821**	**24**	**608**	**3,889**

TRAFFIC CONTROL ITEMS

CATEGORY 0010	649.0200 TEMPORARY PAV'T MARKING REFLECTIVE PAINT, 4-INCH		649.0400 TEMPORARY PAV'T MARKING REMOVABLE TAPE, 4-INCH				649.0701 TEMPORARY PAV'T MARKING 8-INCH	649.0801 TEMPORARY PAV'T MARKING REMOVABLE TAPE, 8-INCH		649.0900 TEMPORARY PAV'T MARKING STOP LINE 12-INCH	649.1200 TEMPORARY PAV'T MARKING STOP LINE REMOVABLE TAPE, 18-INCH (2-FT WHITE SKIPS)	649.1600 TEMPORARY PAV'T MARKING DIAGONAL REMOVABLE TAPE, 12-INCH
STAGE	WHITE L.F.	YELLOW L.F.	WHITE L.F.	BLACK L.F.	BLACK SKIPS L.F.	YELLOW L.F.	WHITE L.F.	WHITE L.F.	BLACK L.F.	WHITE L.F.	L.F.	BLACK L.F.
STAGE 1												
STH 35/70 (S)	--	396	--	--	229	3,116	--	425	--	--	--	--
STH 35 (N)	--	--	--	--	--	--	--	--	--	--	--	--
AIRPORT RD (W)	--	--	--	--	--	--	--	--	--	--	--	--
STH 70 (E)	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTALS:	**0**	**396**	**0**	**0**	**229**	**3,116**	**0**	**425**	**0**	**0**	**0**	**0**
	396		**3,345**					**425**				
STAGE 2												
STH 35/70 (S)	1,838	2,563	272	--	--	736	--	--	--	30	--	--
STH 35 (N)	1,362	2,888	309	65	--	286	--	--	131	24	--	353
AIRPORT RD (W)	--	--	--	--	--	--	--	--	--	--	--	--
STH 70 (E)	1,170	1,158	1,907	--	--	1,902	60	--	--	27	--	--
SERVICE RD	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTALS:	**4,370**	**6,609**	**2,488**	**65**	**0**	**2,924**	**60**	**0**	**131**	**81**	**0**	**353**
	10,979		**5,477**					**131**				
STAGE 3A												
STH 35/70 (S)	--	--	2,725	--	--	3,407	--	418	--	--	--	--
STH 35 (N)	--	--	3,838	240	--	3,723	--	--	167	--	22	240
AIRPORT RD (W)	--	--	--	--	--	--	--	--	--	--	--	--
STH 70 (E)	--	--	1,946	--	--	2,295	--	--	--	--	--	--
CIRCLE	--	--	23	--	--	--	--	--	--	--	--	--
SUBTOTALS:	**0**	**0**	**8,532**	**240**	**0**	**9,425**	**0**	**418**	**167**	**0**	**22**	**240**
	0		**18,197**					**585**				
STAGE 3B												
STH 35/70 (S)	--	--	--	--	--	--	--	--	--	--	--	--
STH 35 (N)	--	--	847	--	--	2,753	--	--	--	--	--	--
AIRPORT RD (W)	--	--	--	--	--	--	--	--	--	--	--	--
STH 70 (E)	--	--	--	--	--	--	--	--	--	--	--	--
CIRCLE	--	--	28	--	--	--	--	--	--	--	--	--
SUBTOTALS:	**0**	**0**	**875**	**0**	**0**	**2,753**	**0**	**0**	**0**	**0**	**0**	**0**
	0		**3,628**					**0**				
STAGE 4A												
STH 35/70 (S)	--	--	--	--	--	1,531	--	--	--	--	--	--
STH 35 (N)	--	--	--	--	--	--	--	--	--	--	--	--
AIRPORT RD (W)	--	--	--	--	--	--	--	--	--	--	--	--
STH 70 (E)	--	--	--	--	--	--	--	--	--	--	--	--
CIRCLE	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTALS:	**0**	**0**	**0**	**0**	**0**	**1,531**	**0**	**0**	**0**	**0**	**0**	**0**
	0		**1,531**					**0**				
STAGE 4B												
STH 35/70 (S)	--	--	--	--	--	--	--	--	--	--	--	--
STH 35 (N)	--	--	--	--	--	--	--	--	--	--	--	--
AIRPORT RD (W)	--	--	--	--	--	--	--	--	--	--	--	--
STH 70 (E)	--	--	--	--	--	--	--	--	--	--	--	--
CIRCLE	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTALS:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
	0		**0**					**0**				
TOTALS:	**4,370**	**7,005**	**11,895**	**305**	**229**	**19,749**	**60**	**843**	**298**	**81**	**22**	**593**
	11,375		**32,178**					**1,141**				

PAVEMENT MARKING

STATION	TO	STATION	LOCATION	646.0106 PAVEMENT MARKING EPOXY 8-INCH WHITE LF	646.0106 PAVEMENT MARKING EPOXY 8-INCH WHITE SKIPS LF	646.0106 PAVEMENT MARKING EPOXY 8-INCH YELLOW LF	646.0126 PAVEMENT MARKING EPOXY 8-INCH WHITE LF	646.0126 PAVEMENT MARKING EPOXY 8-INCH WHITE SKIPS LF	646.0881.S PAV'T MARKING GROOVED WET REFLECTIVE TAPE 4-INCH WHITE LF	646.0883.S GROOVED WET REFLECTIVE TAPE 8-INCH WHITE LF	646.0883.S GROOVED WET REFLECTIVE TAPE 8-INCH WHITE SKIPS LF	647.0166 PAV'T MARKING ARROWS EPOXY TYPE 2 WHITE EA	647.0356 PAV'T MARKING WORDS EPOXY "ONLY" WHITE EA	647.0456 PAV'T MARKING CURB EPOXY YELLOW LF	647.0606 PAV'T MARKING ISLAND NOSE EPOXY YELLOW EA	647.0726 PAV'T MARKING DIAGONAL EPOXY 12-INCH YELLLOW LF
10+88'NB'	-	CIRCLE	NB WEST LEG	1,597	--	1,666	711	72	213	1,052	159	--	--	10	1	--
13+03'SB'	-	CIRCLE	SB WEST LEG	1,534	--	1,476	711	72	363	1,030	--	--	--	10	1	--
300'A'	-	314+45'A'	AIRPORT RD	--	--	2,596	--	--	--	--	--	--	--	--	--	--
CIRCLE	-	245+80'EB'	EAST LEG	2,470	18	3,954	106	107	--	--	--	1	1	83	2	295
CIRCLE	-	53+03'NB'	NORTH LEG	3,687	--	7,051	249	--	75	426	--	2	2	--	--	1,125
101'C'	-	102+50'C'	CIRCLE-NORTH	--	--	--	--	--	--	--	--	--	--	--	--	--
102+50'C'	-	103+50'C'	CIRCLE-WEST	--	--	--	--	--	--	--	--	--	--	--	--	--
103+50'C'	-	101'C'	CIRCLE-EAST	--	--	--	--	--	--	--	--	--	--	--	--	--
			TOTALS	9,288	18	16,743	1,777	251	**650**	2,508	159	**3**	**3**	**103**	**4**	**1,420**
					26,049			**2,028**			**2,667**					

STATION	TO	STATION	LOCATION	SPV.0060.01 PAV'T MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 1 WHITE EA	SPV.0060.02 PAV'T MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 WHITE EA	SPV.0060.03 PAV'T MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2R WHITE EA	SPV.0060.04 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS "YIELD" WHITE EA	SPV.0060.04 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS "ONLY" WHITE EA	SPV.0090.01 PAV'T MARKING GROOVED PREFORMED THERMOPLASTIC 4-INCH WHITE LF	SPV.0090.02 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 8-INCH WHITE LF	SPV.0090.02 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 8-INCH WHITE SKIPS LF	SPV.0090.10 PAV'T MARKING GROOVED PREFORMED PLASTIC 8-INCH WHITE LF	SPV.0090.03 PAV'T MARKING GROOVED PREFORMED PLASTIC DIAGONAL 12-INCH WHITE LF	SPV.0090.04 PAV'T MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH WHITE LF
10+88'NB'	-	CIRCLE	NB WEST LEG	--	--	3	2	3	--	--	--	260	--	24
13+03'SB'	-	CIRCLE	SB WEST LEG	--	--	--	--	--	--	--	--	--	--	--
300'A'	-	314+45'A'	AIRPORT RD	--	--	--	--	--	--	--	--	--	--	--
CIRCLE	-	247+44'EB'	EAST LEG	--	--	--	1	1	36	--	--	--	42	18
CIRCLE	-	46+34'NB'	NB NORTH LEG	--	1	1	1	4	--	--	--	--	--	--
101'C'	-	102+50'C'	CIRCLE-NORTH	--	--	--	--	--	--	97	--	--	--	--
102+50'C'	-	103+50'C'	CIRCLE-WEST	--	--	--	--	--	--	93	--	--	--	--
103+50'C'	-	101'C'	CIRCLE-EAST	2	2	--	--	--	--	241	14	--	--	--
			TOTALS	**2**	**3**	**4**	4	8	**36**	431	14	**260**	**42**	**42**
							12			**445**				

CONSTRUCTION STAKING ITEMS

STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.8000 RESURFACING REFERENCE LF	650.9920 SLOPE STAKES LF
CATEGORY CODE 0010					
STAGE 1					
237+50'EB' - 245+30'EB'	LT	--	--	830	--
TEMPORARY CROSSOVER	RT/LT	530	530	--	530
TW1	LT	800	800	--	800
TW2	RT	910	910	--	910
STAGE 1 SUBTOTALS		2,240	2,240	830	2,240
STAGE 2					
16+85'NB' - 26+50'NB'	RT	965	965	--	965
23+19'SB' - 26+70'SB'	LT	351	351	--	351
35+80'NB' - 47+10'NB'	RT	1,130	1,130	--	1,130
35+10'NB' - 43+00'SB'	LT	790	790	--	790
236+20'EB' - 245+80'EB'	RT	960	960	--	960
AIRPORT ROAD	RT/LT	1,303	1,303	--	1,303
DW2	RT/LT	263	263	--	263
STAGE 2 SUBTOTALS		5,762	5,762	--	5,762
STAGE 3A					
16+49'SB' - 23+19'SB'	LT	670	670	--	670
43+00'SB' - 47+10'SB'	LT	410	410	--	410
236+20'WB' - 245+80'WB'	LT	960	960	--	960
402+45'WBRT' - 402+90'WBRT'	RT	45	45	--	45
SPECIAL DITCH		1,330	--	--	--
STAGE 3A SUBTOTALS		3,415	2,085	--	2,085
STAGE 4A					
10+88'NB' - 17+68'NB'	LT	680	680	--	680
STAGE 4A SUBTOTALS		680	680	--	680
STAGE 4B					
14+00'NB' - 16+85'NB'	RT	--	--	285	--
47+10'NB' - 50+38'NB'	RT	--	--	328	
STAGE 3B SUBTOTALS		--	--	613	--
TOTALS		**12,097**	**10,767**	**1,443**	**10,767**

CONSTRUCTION STAKING ITEMS

LOCATION	650.9910 SUPPLEMENTAL CONTROL LS
CATEGORY CODE 0010	
PROJECT 1370-02-77	1
	1

CONSTRUCTION STAKING ITEMS

LOCATION	SPV.0105.01 CONSTRUCTION STAKING ROUNDABOUT LS
CATEGORY CODE 0010	
PROJECT 1370-02-77	1
	1

SAWING ASPHALT

STATION - STATION	LOCATION	690.0150 LF	COMMENTS
CATEGORY CODE 0010			
STAGE 1			
15+31'NB' - 19+15'NB'	LT	330	ALONG EXISTING STH 35/STH SHOULDER
13+85'SB - 19+15'SB	RT	480	ALONG EXISTING STH 35/STH SHOULDER
10+60'TW1' - 18+00'TW1'	LT	740	ALONG EXISTING STH 70 SHOULDER
37+00'SB - 41+50'SB'	LT	550	ALONG EXISTING STH 35 SHOULDER
237+00'EB' - 245+30'EB'	LT/RT	1,710	MILL AND OVERLAY AREA
STAGE 1 SUBTOTALS		3,810	
STAGE 2			
16+85'NB' - 17+50'NB'	LT	210	STH 35/STH 70
31+53'NB'	LT	185	ALONG EXISTING STH 70 SHOULDER
31+91'NB'	LT	185	ALONG EXISTING STH 70 SHOULDER
41+30'SB' - 42+50'SB'	LT	120	STH 35
46+55'NB' - 47+10'NB'	LT	105	STH 35
233+20'WB' - 245+80'EB'	RT	1,230	ALONG EXISTING STH 70 SHOULDER
301+42'A'	RT	155	AIRPORT ROAD
314+45'A'		22	AIRPORT ROAD
STAGE 2 SUBTOTALS		2,212	
STAGE 3A			
16+50'SB' - 17+67'SB'	LT	210	STH 35/STH 70
47+10'NB'	LT	23	STH 35
234+50'WB' - 245+80'WB'	LT	960	STH 70
STAGE 3A SUBTOTALS		1,193	
STAGE 4A			
10+88'NB' - 17+67'NB'	LT	685	STH 35/STH 70 & LIND ROAD INTERSECTION
14+50'SB' - 16+50'SB	RT	205	STH 35/STH 70 & LIND ROAD INTERSECTION
31+50'NB' - 31+90'NB'	LT	80	TEMPORARY ROAD REMOVAL
234+75'WB' - 235+50'EB'		210	TEMPORARY ROAD REMOVAL
STAGE 4A SUBTOTALS		1,180	
STAGE 4B			
14+00'NB' - 16+85'NB'	RT	490	MILL AND OVERLAY AREA
47+10'NB' - 50+38'NB'	RT	310	MILL AND OVERLAY AREA
STAGE 4B SUBTOTALS		800	
TOTALS		**9,195**	

PULL BOXES STEEL 24X42-INCH

NUMBER	STATION	OFFSET	653.0140 EACH
LPB-1	29NB+10	37.6 RT	1
LPB-2	29NB+10	13.7 LT	1
LPB-3	29SB+47	24.6 LT	1
LPB-4	31SB+36	31.0 LT	1
LPB-5	31NB+88	12.3 LT	1
LPB-6	31NB+58	32.0 RT	1
LPB-7	232WB+23	60.0 LT	1
LPB-8	231EB+85	14.6 LT	1
LPB-9	231EB+49	24.6 RT	1
TOTAL			9

ELECTRICAL WIRE LIGHTING AND CONDUIT RIGID NONMETALLIC SCHEDULE 40

FROM - TO	Length	NO OF WIRES 8 AWG	8 AWG 655.0620 L.F.	2-INCH 652.0225 L.F.
LCC - LPB-7	15	5	105	45
LPB-7 - LPB-8	85	3	273	85
LPB-8 - L-A6	30	5	180	30
LPB-8 - L-A5	202	3	624	202
L-A5 - STUB	6	0	0	6
LPB-8 - LPB-9	53	3	177	53
LPB-9 - L-A4	25	3	93	25
L-A4 - L-A3	110	3	348	110
L-A3 - L-A2	137	3	429	137
LPB-7 - L-A7	125	3	393	125
L-A7 - LPB-6	15	5	105	15
LPB-6 - LPB-5	53	5	295	53
LPB-5 - L-A8	175	3	543	175
L-A8 - STUB	6	0	0	6
LPB-5 - LPB-4	46	3	156	46
LPB-4 - L-A9	25	3	93	25
L-A9 - L-A10	72	3	234	72
L-A10 - LPB-3	45	3	153	45
LPB-3 - LPB-2	37	3	129	37
LPB-2 - L-A1	150	3	468	150
L-A1 - STUB	6	0	0	6
LPB-2 - LPB-1	50	0	0	50
LPB-1 - L-A2	15	0	0	15
TOTAL			4798	1513

CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS

PROJECT	650.8500 L.S.
8010-01-75	1
TOTAL	1

3

LIGHTING UNIT AND LUMINAIRE ITEMS

STATION	OFFSET	LIGHTING UNIT NUMBER	POLES SPECIAL 20-FT ALUMINUM SPV.0060.06 EACH	POLES SPECIAL 25-FT ALUMINIMUM SPV.0060.07 EACH	POLES SPECIAL 20-FT ALUMINUM DELIVERED SPV.0060.20 EACH	POLES SPECIAL 25-FT ALUMINIMUM DELIVERED SPV.0060.21 EACH	LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FOOT 657.0710 EACH	LUMINAIRES UTILITY LED LED-A SPV.0060.05 EACH	CONCRETE BASES TYPE 5 654.0105 EACH	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE 657.0255 EACH	ELECTRICAL WIRE LIGHTING 12 AWG 655.0610 L.F.	CONCRETE BASE ELEVATION	CRITICAL AIRPORT THRESHOLD
27NB+68	11.3 LT	L-A1	1				2	2	1	1	252	990.80	1015.09
29NB+32	38.0 RT	L-A2	1				1	1	1	1	126	990.30	1018.18
103C+80	41.4 RT	L-A3		1			1	1	1	1	141	990.70	1021.67
29SB+95	26.2 LT	L-A10	1				2	2	1	1	252	990.80	1016.01
31SB+02	34.3 LT	L-A9	1				2	2	1	1	252	990.20	1015.48
231EB+25	26.1 RT	L-A4		1			1	1	1	1	141	990.00	1022.39
233EB+85	8.7 LT	L-A5		1			2	2	1	1	282	988.80	1040.00
31NB+43	31.1 RT	L-A7	1				1	1	1	1	126	989.80	1017.61
33NB+61	6.5 LT	L-A8	1				2	2	1	1	252	989.30	1014.07
231WB+58	6.8 RT	L-A6		1			1	1	1	1	141	990.20	1021.03
UNDISTRIBUTED		SPARE			1	1							
TOTAL			6	4	1	1	15	15	10	10	1965		

LIGHTING CONTROL CABINETS

STATION, OFFSET	DESCRIPTION	LIGHTING CONTROL CABINET SPV.0060.18 EACH	CONCRETE LIGHTING CONTROL CABINET BASE SPV.0060.19 EACH	ELECTRICAL SERVICE METER BREAKER PEDESTAL 656.0200 L.S.	LOCATION
232WB+35, 60.0 LT	LCC A	1	1	1	NE QUAD
TOTAL		1	1	1	

SANITARY SEWER - COMPENSABLE (CATEGORY 0010)

STATION	LOCATION	CATEGORY 0010 SPV.0060.08 AIR RELEASE MANHOLE WITH FLUSH CONNECTION COMPLETE EA	CATEGORY 0010 SPV.0060.09 AIR RELEASE MANHOLE COMPLETE EA	CATEGORY 0010 SPV.0060.10 DOUBLE FLUSH CONNECTION COMPLETE EA	CATEGORY 0010 SPV.0050.11 REMOVE EXISTING AIR RELEASE MANHOLE EA	CATEGORY 0010 SPV.0060.12 REMOVE EXISTING FLUSH CONNECTION EA	CATEGORY 0010 SPV.0060.13 CONNECT TO EXISTING LOW PRESSURE SEWER EA	CATEGORY 0010 SPV.0060.14 3-INCH x 1 1/2-INCH TEE, CURB STOP AND BOX EA	CATEGORY 0010 SPV.0060.15 3-INCH x 3-INCH TEE EA	CATEGORY 0010 SPV.0060.16 3-INCH PLUG EA	CATEGORY 0010 SPV.0060.17 6-INCH PLUG EA	CATEGORY 0010 SPV.0090.07 3-INCH HDPE LOW PRESSURE SEWER LF	CATEGORY 0010 SPV.0090.08 1 1/2-INCH HDPE LOW PRESSURE SEWER LATERAL LF	CATEGORY 0010 SPV.0090.09 3-INCH HDPE LOW PRESSURE SEWER BY HDD LF
497+19	LT	---	---	---	---	---	1	---	---	---	---	---	---	---
497+19 - 497+29	LT	1	---	---	---	---	---	---	---	---	---	---	---	---
497+35	LT	---	---	---	---	---	---	---	---	---	1	---	---	---
499+85	LT	---	---	---	1	1	---	---	---	---	1	---	---	---
500+35	0' RT	---	---	---	---	---	1	---	---	1	---	---	---	---
500+35 - 509+64	0' RT	---	---	---	---	---	---	---	---	---	---	929	---	---
501+50	0' RT	---	---	1	---	---	---	---	---	---	---	---	---	---
501+97	LT	---	---	---	---	1	---	---	---	2	---	---	---	---
504+42.3	0' RT	---	---	---	---	---	---	---	1	---	---	---	---	---
509+64	0' RT	---	---	---	---	---	1	---	---	1	---	---	---	---
	TOTALS	**1**	**0**	**1**	**1**	**2**	**3**	**0**	**1**	**4**	**2**	**929**	**0**	**0**

SANITARY SEWER - NON-COMPESABLE (CATEGORY 0020)

STATION	LOCATION	CATEGORY 0020 SPV.0060.08 AIR RELEASE MANHOLE WITH FLUSH CONNECTION COMPLETE EA	CATEGORY 0020 SPV.0060.09 AIR RELEASE MANHOLE COMPLETE EA	CATEGORY 0020 SPV.0060.10 DOUBLE FLUSH CONNECTION COMPLETE EA	CATEGORY 0020 SPV.0060.11 REMOVE EXISTING AIR RELEASE MANHOLE EA	CATEGORY 0020 SPV.0060.12 REMOVE EXISTING FLUSH CONNECTION EA	CATEGORY 0020 SPV.0060.13 CONNECT TO EXISTING LOW PRESSURE SEWER EA	CATEGORY 0020 SPV.0060.14 3-INCH x 1 1/2-INCH TEE, CURB STOP AND BOX EA	CATEGORY 0020 SPV.0060.15 3-INCH x 3-INCH TEE EA	CATEGORY 0020 SPV.0060.16 3-INCH PLUG EA	CATEGORY 0020 SPV.0060.17 6-INCH PLUG EA	CATEGORY 0020 SPV.0090.07 3-INCH HDPE LOW PRESSURE SEWER LF	CATEGORY 0020 SPV.0090.08 1 1/2-INCH HDPE LOW PRESSURE SEWER LATERAL LF	CATEGORY 0020 SPV.0090.09 3-INCH HDPE LOW PRESSURE SEWER BY HDD LF
600+00 - 620+00	0' RT	---	---	---	---	---	---	---	---	---	---	2000	---	---
612+50	0' RT	---	---	1	---	---	---	---	---	---	---	---	---	---
614+00	0' RT	---	1	---	---	---	---	---	---	---	---	---	---	---
618+00	0' LT	---	---	---	---	---	---	1	---	---	---	---	20	---
620+00 - 625+40	0' RT	---	---	---	---	---	---	---	---	---	---	---	---	540
625+05	0' LT	---	---	---	---	---	---	1	---	---	---	---	20	---
625+30	0' RT	---	---	1	---	---	---	---	---	---	---	---	---	---
625+40	0' RT	---	---	---	---	---	---	---	---	1	---	---	---	---
	TOTALS	**0**	**1**	**2**	**0**	**0**	**0**	**2**	**0**	**1**	**0**	**2000**	**40**	**540**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

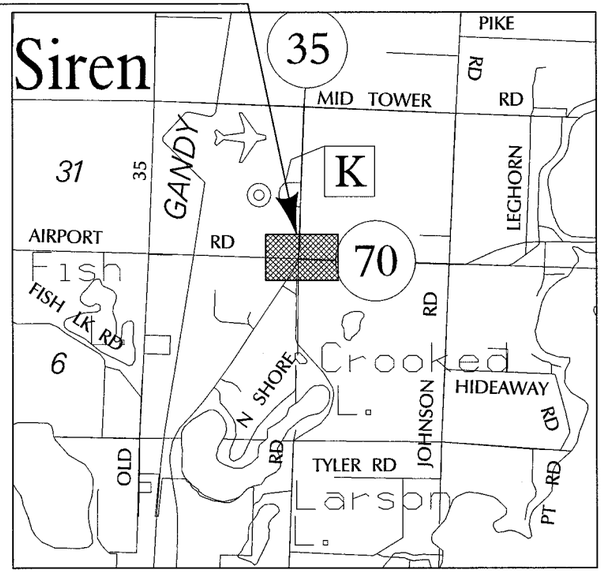
PROJECT NO. 8010-01-25

STH 35 SIREN-DANBURY (STH 70 NORTH INTERSECTION)

STH 35
BURNETT COUNTY

R-17-W | R-16-W

PROJECT LOCATION



T-39-N

T-38-N

LOCATION SKETCH

N

LAYOUT
SCALE 0 1/2 MI.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, BURNETT COUNTY ZONE, NAD 83 (2007) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 3/4" x 24" REBAR WITH A WISDOT CAP) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

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

FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 35 ESTABLISHED FROM PREVIOUS PROJECT T 028-3(12), DEEDED TRANSFERS, AND EXISTING SURVEYS.
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 70 ESTABLISHED FROM PREVIOUS PROJECT T0157(21), DEEDED TRANSFERS, AND EXISTING SURVEYS.
EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM STATUE 82.31 USING EXISTING ALIGNMENTS.
EXISTING ACCESS CONTROL ALONG STH 35 & 70 ESTABLISHED FROM PREVIOUS PROJECTS T 028-3(12) and T0157(21).

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A **PERMANENT LIMITED EASEMENT** (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION REGION OFFICE IN SUPERIOR.

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LANDS TO DEPARTMENT OF TRANSPORTATION.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
BUILDING	BLG.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.	**CURVE DATA**	
EASEMENT	EASE.	LONG CHORD	LCH
HIGHWAY EASEMENT	H.E.	LONG CHORD BEARING	LCB
LAND CONTRACT	LC	RADIUS	R
MONUMENT	MON.	DEGREE OF CURVE	D
PAGE	P.	CENTRAL ANGLE OR DELTA	DELTA
PERMANENT LIMITED EASEMENT	PLE	LENGTH OF CURVE	L
PROPERTY LINE	PL	TANGENT	TAN
RECORDED AS	(100')		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LE (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	•(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	NWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	
BUILDING TO BE REMOVED			

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8010-01-25 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : L:\OSURVEY\ODGN\410585_Siren_35&70\410585_tpp_400.dgn
PLOT DATE : 12/31/2012
PLOT BY : gr592
PLOT NAME :
PLOT SCALE : 1:100
APPRAISAL PLAT DATE :

8010-01-25 4.00

TRANSPORTATION PROJECT PLAT NO: 8010-01-25 - 4.01

PART OF LOT 2 C.S.M.#2132, V.12, PG.57, LOT 1 C.S.M.#3584, V.18, PG.27, LOT 2 C.S.M.#1262, V.6, PG.177, LOT 1 C.S.M.#4251, V.23, PG.9 AND PART OF GOVERNMENT LOTS 1 AND 8, SECTION 5, TOWNSHIP 38 NORTH, RANGE 16 WEST, TOWN OF SIREN, BURNETT COUNTY, WISCONSIN.

RELOCATION ORDER STH 35 SIREN-DANBURY (STH 70 NORTH INTERSECTION) BURNETT COUNTY

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

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

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN BURNETT COUNTY, WISCONSIN AT 2:50PM ON January 14, 2013 AS DOCUMENT #423591 AND FILED IN Vol 6 of Plats pg 319

Jeanie Chell
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8010-01-25-4.01
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	T.L.E. ACRES
1	TRIBAL COUNCIL ST. CROIX CHIPPEWA	FEE	0.48	----	0.48	
2	DENNIS L. & NANCY G. LIEDER	FEE & TLE	0.43	----	0.43	0.19
3	J. BILDER PROPERTIES INC.	FEE	0.81	----	0.81	
4	JAMES & DIANE JOLLY	FEE	0.18	----	0.18	
6	TFJ NOMINEE	FEE	3.05	----	3.05	

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
15	SIREN COMMUNICATIONS, INC.	RELEASE OF RIGHTS
16	WE ENERGIES	RELEASE OF RIGHTS
17	POLK-BURNETT ELECTRIC CO-OP	RELEASE OF RIGHTS
18	TOWN OF SIREN SANITARY SEWER	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION

PARCEL #	UTILITY	RECORDED DOCUMENTS
1	NO EASEMENT INFORMATION FOUND	
2	POLK-BURNETT ELECTRIC CO-OP	V.338, P.16
	AVIATION EASEMENT	V.416, P.27
3	AVIATION EASEMENT	NO DOC. LISTED
4	POLK-BURNETT ELECTRIC CO-OP	V.94, P.182
	AVIATION EASEMENT	V.411, P.263
6	NO EASEMENT INFORMATION FOUND	

R/W COORDINATES, STATION AND OFFSET

POINT	Y	X	STATION	OFFSET
200	163971.00	232723.87	13+49.66	155.08'
201	164010.68	232748.71	13+96.48	155.09'
202	164170.61	232792.56	100+57.00	40.00'
203	164249.81	232835.25	101+40.65	37.19'
204	164352.44	232919.33	102+49.92	50.00'
205	164384.51	232960.43	103+26.71	45.00'
206	164491.67	233021.59	104+50.00	50.00'
207	164661.71	233122.93	106+59.36	45.00'
208	164662.12	233028.57	106+13.73	132.88'
209	164740.12	233028.82	107+35.90	154.47'
210	164739.94	233125.54	107+49.06	58.20'
211	164833.15	233125.90	108+58.43	51.82'
212	164878.83	233100.86	109+18.61	62.79'
216	165006.47	233030.09	110+90.82	48.79'
217	165108.27	232876.91	112+96.25	26.09'
218	165108.93	232728.49	114+50.06	32.16'
258	164639.70	233513.01	23+69.44	105.51'
259	164521.18	233362.65	21+67.06	79.88'
260	164521.36	233346.73	21+56.43	67.57'
261	164145.87	233100.53	16+97.80	71.31'
262	164049.46	233227.66	16+83.58	230.23'
263	163983.46	233228.04	16+27.94	265.58'
264	164014.81	233120.28	15+97.21	157.62'
265	163938.38	233012.28	14+75.11	106.66'
266	163535.57	232760.34	10+00.00	106.96'
267	163674.62	232538.34	10+00.00	155.00'
268	165141.93	232728.63	114+50.00	0.84'
269	164650.57	233537.74	23+97.20	113.76'
272	164797.11	233538.33		
TLE500	164835.57	233021.94		
TLE501	164905.72	232983.49		
TLE502	164931.09	233029.77		

IRON PIPE TABLE

PT.#	Y	X
IP#1	165108.89	232736.66
IP#2	164346.42	233232.06

COURSE TABLE

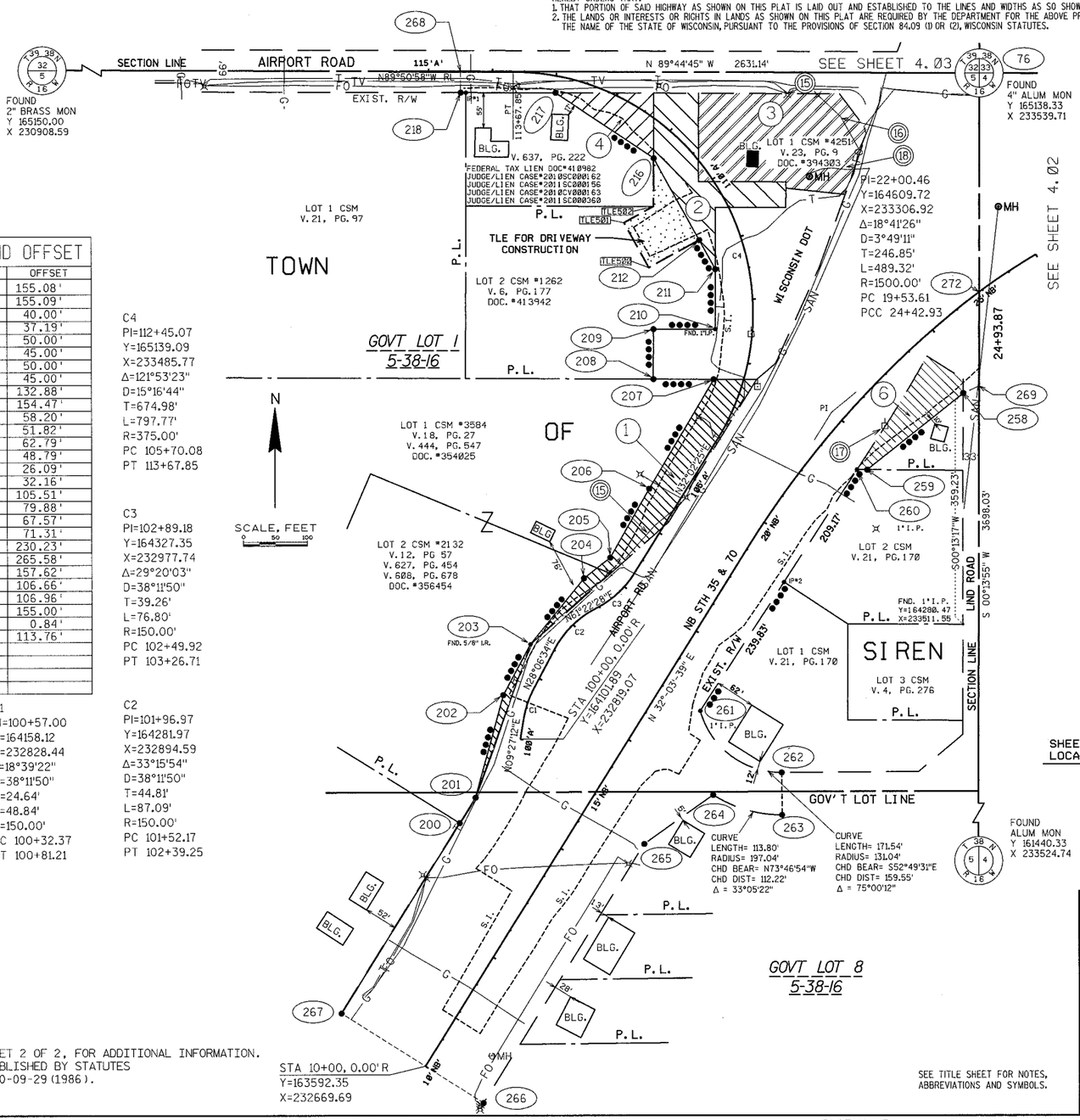
LINE	BEARING	DISTANCE
200 - 201	N32°02'46"E	46.81'
201 - 202	N15°19'50"E	165.83'
202 - 203	N28°19'45"E	89.97'
203 - 204	N39°19'35"E	132.67'
204 - 205	N52°01'55"E	52.13'
205 - 206	N29°43'04"E	123.39'
206 - 207	N30°47'36"E	197.94'
207 - 208	N89°44'46"W	94.36'
208 - 209	N00°11'08"E	78.00'
209 - 210	S89°53'28"E	96.72'
210 - 211	N00°13'22"E	93.21'
211 - 212	N28°43'38"W	52.09'
212 - 216	N29°00'29"W	145.95'
216 - 217	N56°23'31"W	183.92'
217 - 218	N89°44'45"W	148.42'
218 - 268	N00°15'15"E	33.00'
269 - 258	S66°15'28"W	27.02'
258 - 259	S51°45'13"W	191.45'
259 - 260	N89°21'20"W	15.93'
260 - 261	S33°15'05"W	449.00'
262 - 263	S00°19'39"E	66.00'
264 - 265	S54°43'02"W	132.31'
265 - 266	S32°01'26"W	475.11'
266 - 267	N57°56'21"W	261.95'
267 - 200	N32°02'48"E	349.66'
76 - 268	N89°44'45"W	811.09'
76 - 269	S00°13'55"W	487.76'
76 - 272	S00°13'55"W	341.22'

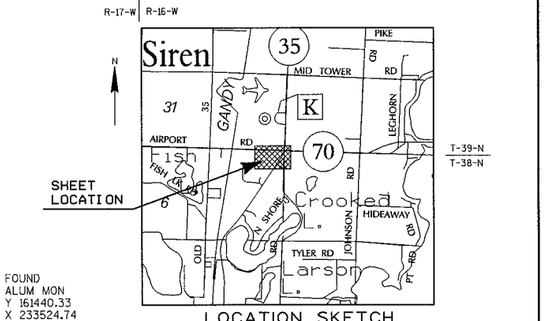
C4
PI=112+45.07
Y=165139.09
X=233485.77
Δ=121°53'23"
D=15°16'44"
T=674.98'
L=797.77'
R=375.00'
PC 105+70.08
PT 113+67.85

C3
PI=102+89.18
Y=164327.35
X=232977.74
Δ=29°20'03"
D=38°11'50"
T=39.26'
L=76.80'
R=150.00'
PC 102+49.92
PT 103+26.71

C1
PI=100+57.00
Y=164158.12
X=232828.44
Δ=18°39'22"
D=38°11'50"
T=24.64'
L=48.84'
R=150.00'
PC 100+32.37
PT 100+81.21

C2
PI=101+96.97
Y=164281.97
X=232894.59
Δ=33°15'54"
D=38°11'50"
T=44.81'
L=87.09'
R=150.00'
PC 101+52.17
PT 102+39.25





NOTES:
REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, FOR ADDITIONAL INFORMATION.
ORIGINAL ACCESS CONTROL ALONG STH 70 ESTABLISHED BY STATUTES 84.25 AS DEPICTED ON PREVIOUS PROJECT 8010-09-29 (1986).

SEE TITLE SHEET FOR NOTES, ABBREVIATIONS AND SYMBOLS.

AYRES ASSOCIATES Engineers/Architects Scientists/Surveyors 3433 Oakwood Hills Parkway Eau Claire, WI 54701

I, GREGORY J. RAYMOND, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 8010-01-25-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 12/31/12

(PRINTED NAME) GREGORY J. RAYMOND

(REGISTRATION NUMBER) R.L.S. #2506

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

(SIGNATURE) _____ DATE 1/10/13

(PRINTED NAME) MICHAEL PILLER

FILE NAME : 410585_tpp_401.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 1/9/2013 PLOT BY : gr592 PLOT NAME : PLOT SCALE : 1:100

TRANSPORTATION PROJECT PLAT NO: 8010-01-25 - 4.02

PART OF GOVERNMENT LOT 4, SECTION 4, TOWNSHIP 38 NORTH, RANGE 16 WEST, TOWN OF SIREN, BURNETT COUNTY, WISCONSIN.

RELOCATION ORDER STH 35 SIREN-DANBURY (STH 70 NORTH INTERSECTION) BURNETT COUNTY

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

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

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN BURNETT COUNTY, WISCONSIN AT 2:09 PM ON February 11, 2013
AS DOCUMENT # 424041 AND FILED IN Vol 6 of Plats pg 319

Jeanie Chell
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8010-01-25-4.02
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT

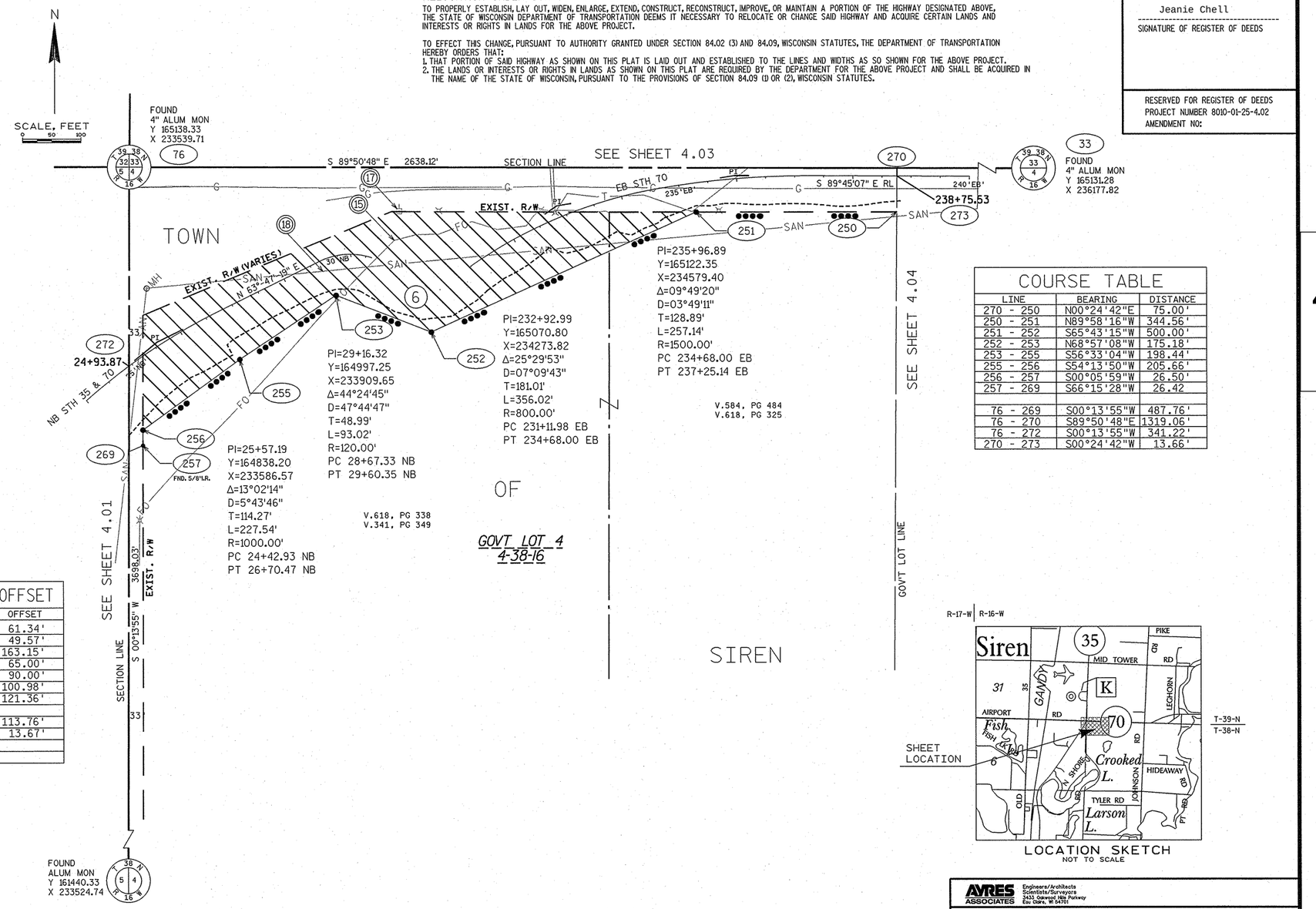
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
6	TFJ NOMINEE TRUST	FEE	3.05	----	3.05

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
15	SIREN COMMUNICATIONS, INC.	RELEASE OF RIGHTS
17	POLK-BURNETT ELECTRIC CO-OP	RELEASE OF RIGHTS
18	TOWN OF SIREN SANITARY SEWER	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION

PARCEL *	UTILITY	RECORDED DOCUMENTS
6	NO EASEMENT INFORMATION FOUND	



R/W COORDINATES, STATION AND OFFSET

POINT	Y	X	STATION	OFFSET
250	165059.80	234858.23	238+75.35	61.34'
251	165059.98	234513.67	235+23.55	49.57'
252	164854.39	234057.90	29+60.35	163.15'
253	164917.30	233894.41	28+67.33	65.00'
255	164807.92	233728.84	26+70.47	90.00'
256	164687.71	233561.97	24+42.93	100.98'
257	164661.21	233561.92	24+24.65	121.36'
269	164650.57	233537.74	23+97.20	113.76'
270	165134.80	234858.77	238+75.57	13.67'
272	164797.11	233538.33		
273	165121.14	234858.67		

COURSE TABLE

LINE	BEARING	DISTANCE
270 - 250	N00°24'42"E	75.00'
250 - 251	N89°58'16"W	344.56'
251 - 252	S65°43'15"W	500.00'
252 - 253	N68°57'08"W	175.18'
253 - 255	S56°33'04"W	198.44'
255 - 256	S54°13'50"W	205.66'
256 - 257	S00°05'59"W	26.50'
257 - 269	S66°15'28"W	26.42
76 - 269	S00°13'55"W	487.76'
76 - 270	S89°50'48"E	1319.06'
76 - 272	S00°13'55"W	341.22'
270 - 273	S00°24'42"W	13.66'

LOCATION SKETCH
NOT TO SCALE

REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN BURNETT COUNTY, AS SHEET 2 OF 2 OF DOCUMENT NO. 423591 OF TPP'S FOR ADDITIONAL INFORMATION. ORIGINAL ACCESS CONTROL ALONG STH 70 ESTABLISHED BY STATUTES 84.25 AS DEPICTED ON PREVIOUS PROJECTS T 028-3 (12) and T0157 (21),

SEE TITLE SHEET FOR NOTES, ABBREVIATIONS AND SYMBOLS.

AYRES ASSOCIATES — Engineers/Architects Scientists/Surveyors 3433 Oakwood Hills Parkway Eau Claire, WI 54701

I, JOHN C. FAVORITE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 8010-01-25-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND. (SIGNATURE) DATE 2/5/13

WISCONSIN JOHN C. FAVORITE S-1890 MADISON WI LAND SURVEYOR

(PRINTED NAME) JOHN C. FAVORITE
(REGISTRATION NUMBER) S-1890

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

(SIGNATURE) DATE 2/5/13
(PRINTED NAME) MICHAEL PILLER

TRANSPORTATION PROJECT PLAT NO: 8010-01-25 - 4.03 AMENDMENT NO:1

AMENDS PARCELS 7 AND 8 OF TRANSPORTATION PROJECT PLAT 8010-01-25 - 4.03
RECORDED AS DOCUMENT NO: 424042 AND FILED IN VOLUME 6 OF PLATS, PAGE 320.

PART OF LOT 2 C.S.M. #2228 V.13, PG.35 AND PART OF THE SW¼ OF THE SW¼, SECTION 33
TOWNSHIP 39 NORTH, RANGE 16 WEST, TOWN OF MEENON. BURNETT COUNTY, WISCONSIN

RELOCATION ORDER STH 35 SIREN-DANBURY (STH 70 NORTH INTERSECTION) BURNETT COUNTY

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

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

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN BURNETT COUNTY, WISCONSIN AT 1.50P M ON March 21, 2013 AS DOCUMENT # 424628 AND FILED IN Vol 6 of Plats Pg 321

Jeanine Chell
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8010-01-25-4.03
AMENDMENT NO: 1

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	T.L.E. ACRES
7	MICHAEL J. & KATE G. LECHNIR	FEE	0.53	----	0.53	----
8	STACY SYBERS	FEE	0.46	----	0.46	----
9	LOYAL ORDER OF MOOSE LODGE #1194	TLE	----	----	----	0.53

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
15	SIREN COMMUNICATIONS, INC.	RELEASE OF RIGHTS
17	POLK-BURNETT ELECTRIC CO-OP	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION

PARCEL #	UTILITY	RECORDED DOCUMENTS
7	POLK-BURNETT ELECTRIC CO-OP	V.87,P.210
	POLK-BURNETT ELECTRIC CO-OP	V.648,P.282
	POLK-BURNETT ELECTRIC CO-OP	DOC.#382973
	POLK-BURNETT ELECTRIC CO-OP	DOC.#387366
8	POLK-BURNETT ELECTRIC CO-OP	V.87,P.210
9	POLK-BURNETT ELECTRIC CO-OP	V.78,P.71
	POLK-BURNETT ELECTRIC CO-OP	V.78,P.67
	POLK-BURNETT ELECTRIC CO-OP	V.359,P.133

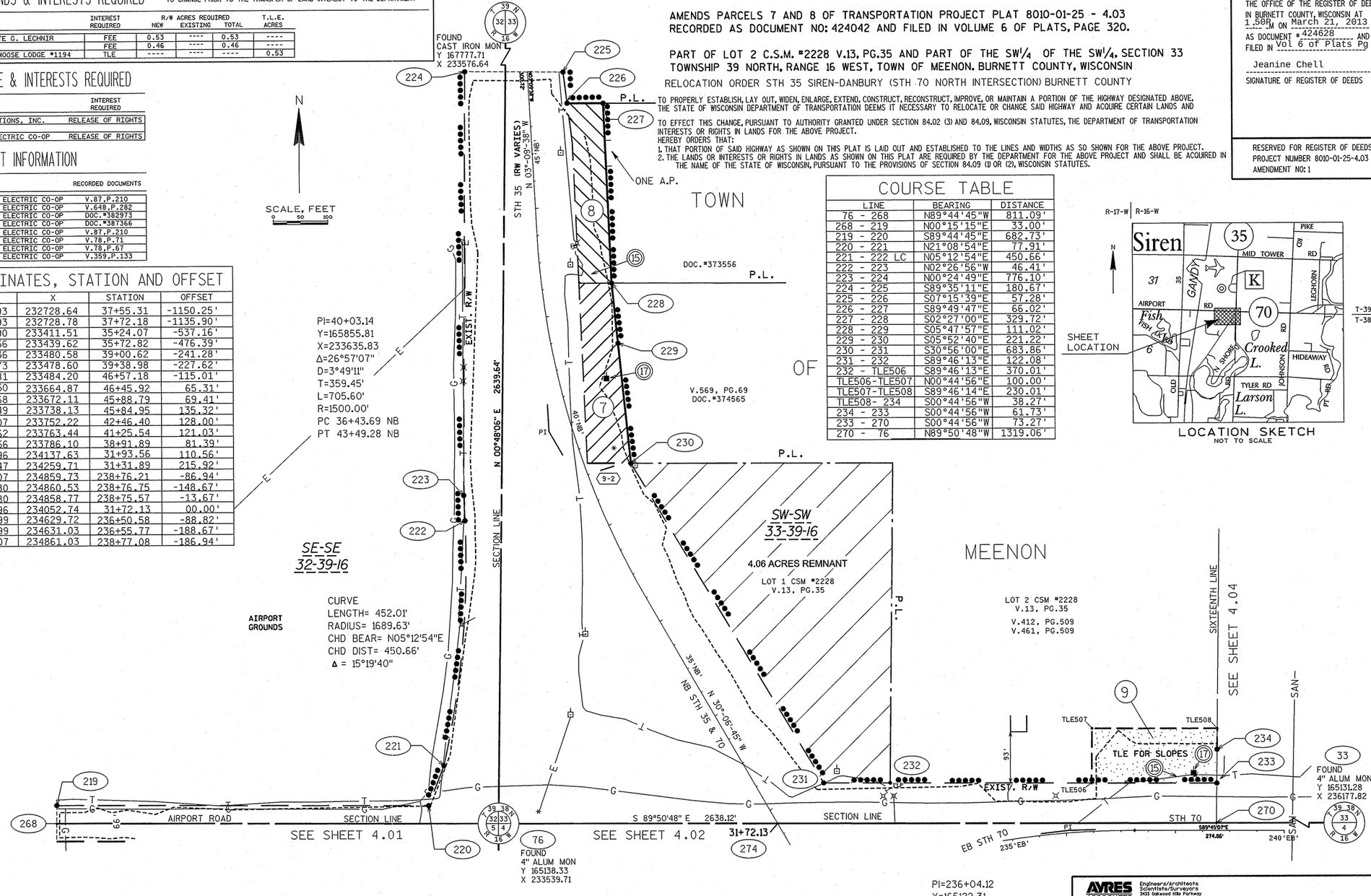
R/W COORDINATES, STATION AND OFFSET

POINT	Y	X	STATION	OFFSET
268	165141.93	232728.64	37+55.31	-1150.25'
219	165174.93	232728.78	37+72.18	-1135.90'
220	165171.90	233411.51	35+24.07	-537.16'
221	165244.56	233439.62	35+72.82	-476.39'
222	165693.36	233480.58	39+00.62	-241.28'
223	165739.73	233478.60	39+38.98	-227.62'
224	166515.81	233484.20	46+57.18	-115.01'
225	166514.50	233664.87	46+45.92	65.31'
226	166457.68	233672.11	45+88.79	69.41'
227	166457.49	233738.13	45+84.95	135.32'
228	166128.07	233752.22	42+46.40	128.00'
229	166017.62	233763.44	41+25.54	121.03'
230	165797.56	233786.10	38+91.89	81.39'
231	165210.96	234137.63	31+93.56	110.56'
232	165210.47	234259.71	31+31.89	215.92'
233	165208.07	234859.73	238+76.21	-86.94'
234	165269.80	234860.53	238+76.75	-148.67'
270	165134.80	234858.77	238+75.57	-13.67'
274	165136.96	234052.74	31+72.13	00.00'
TLE506	165208.99	234629.72	236+50.58	-88.82'
TLE507	165308.99	234631.03	236+55.77	-188.67'
TLE508	165308.07	234861.03	238+77.08	-186.94'

COURSE TABLE

LINE	BEARING	DISTANCE
76 - 268	N89°44'45"W	811.09'
268 - 219	N00°15'15"E	33.00'
219 - 220	S89°44'45"E	682.73'
220 - 221	N21°08'54"E	77.91'
221 - 222 LC	N05°12'54"E	450.66'
222 - 223	N02°26'56"W	46.41'
223 - 224	N00°24'49"E	776.10'
224 - 225	S89°35'11"E	180.67'
225 - 226	S07°15'39"E	57.28'
226 - 227	S89°49'47"E	66.02'
227 - 228	S02°27'00"E	329.72'
228 - 229	S05°47'57"E	111.02'
229 - 230	S05°52'40"E	221.22'
230 - 231	S30°56'00"E	683.86'
231 - 232	S89°46'13"E	122.08'
232 - TLE506	S89°46'13"E	370.01'
TLE506-TLE507	N00°44'56"E	100.00'
TLE507-TLE508	S89°46'14"E	230.01'
TLE508- 234	S00°44'56"W	38.27'
234 - 233	S00°44'56"W	61.73'
233 - 270	S00°44'56"W	73.27'
270 - 76	N89°50'48"W	1319.06'

LOCATION SKETCH
NOT TO SCALE



SIGN NUMBER	SIGN OWNER
9-2	LAMAR ADVERTISING DULUTH

PI=236+04.12
Y=165122.31
X=234586.73
Δ=09°15'58"
D=3°49'11"
T=121.56'
L=242.58'
R=1500.00'
PC 234+82.56 EB
PT 237+25.14 EB

SEE TITLE SHEET FOR NOTES, ABBREVIATIONS AND SYMBOLS.

REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN BURNETT COUNTY, AS SHEET 2 OF 2 OF DOCUMENT NO. 423591 OF TPP'S FOR ADDITIONAL INFORMATION. ORIGINAL ACCESS CONTROL ALONG STH 70 ESTABLISHED BY STATUTES 84.25 AS DEPICTED ON PREVIOUS PROJECTS T 028-3(12) and T0157(21),

AYRES ASSOCIATES — Engineers/Architects Scientists/Surveyors, 3433 Oakwood Hills Parkway, Eau Claire, WI 54701

I, JOHN C. FAVORITE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 8010-01-25-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 3/13/13
(PRINTED NAME) JOHN C. FAVORITE
(REGISTRATION NUMBER) S-1890

WISCONSIN — JOHN C. FAVORITE S-1890 MADISON WI — LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

FILE NAME : 410585_tpp_403.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 3/14/2013
PLOT BY : ingramj
PLOT NAME :
PLOT SCALE : 1:99.9998

8010-01-25 4.03

4

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	T.L.E. ACRES
10	POLK BURNETTE ELECTRIC	FEE & TLE	0.11	----	0.11	0.04
11	THOMAS W. & GRACE J. HAINES	FEE	0.09	----	0.09	----

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
15	SIREN COMMUNICATIONS, INC.	RELEASE OF RIGHTS
18	TOWN OF SIREN SANITIARY SEWER	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION

PARCEL #	UTILITY	RECORDED DOCUMENTS
10	POLK-BURNETT ELECTRIC CO-OP	V.78,P.73
11	NO EASEMENT INFORMATION FOUND	
11	POLK-BURNETT ELECTRIC CO-OP	V.78,P.73

TRANSPORTATION PROJECT PLAT NO: 8010-01-25 - 4.04

PART OF LOT 1, C.S.M. #3357 V.16, PG. 151, AND PART OF THE SE 1/4 OF THE SW 1/4, SECTION 33, TOWNSHIP 39 NORTH, RANGE 16 WEST, TOWN OF MEENON, AND PART OF GOVERNMENT LOT 3, SECTION 4. TOWNSHIP 38 NORTH, RANGE 16 WEST, TOWN OF SIREN, ALL IN BURNETT COUNTY, WISCONSIN

RELOCATION ORDER STH 35 SIREN-DANBURY (STH 70 NORTH INTERSECTION) BURNETT COUNTY

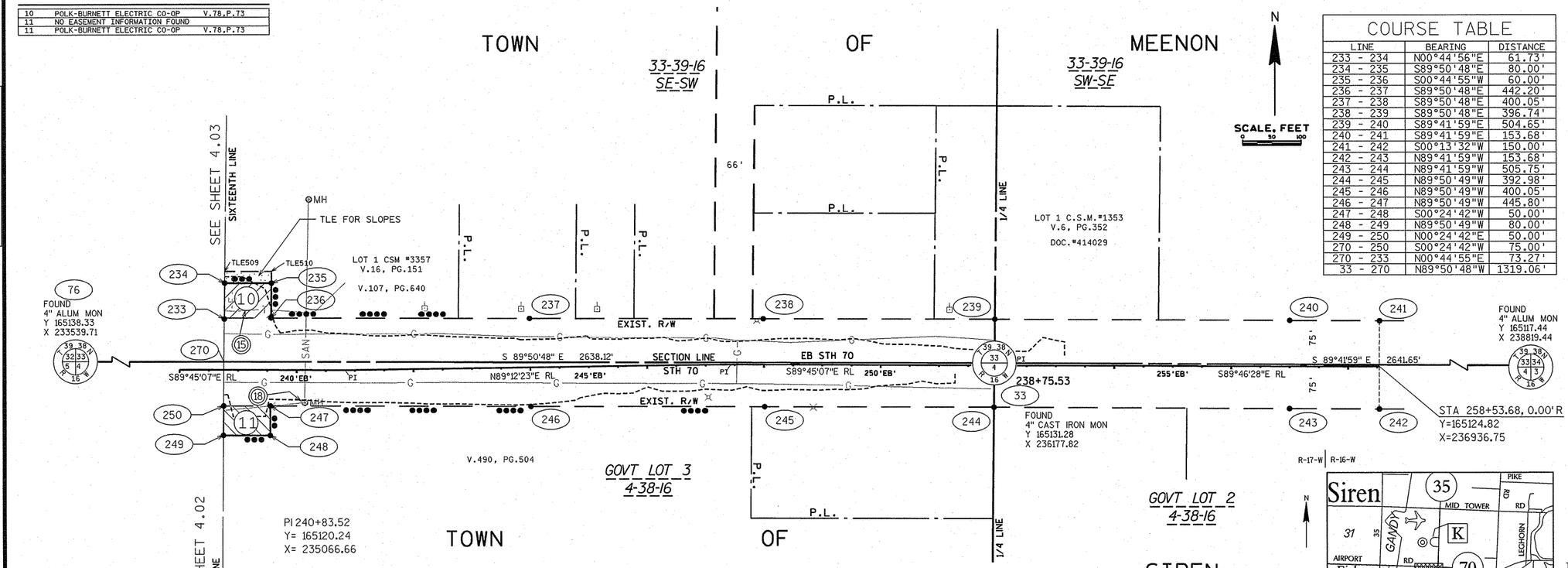
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

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

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN BURNETT COUNTY, WISCONSIN AT 2:00PM ON February 11, 2013 AS DOCUMENT # 424043 AND FILED IN Vol 6 of Plats pg 320

Jeanie Chell
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8010-01-25-4.04
AMENDMENT NO:

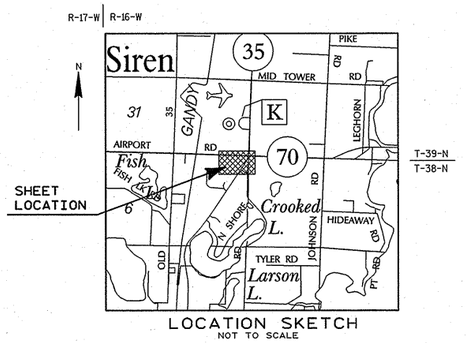


COURSE TABLE

LINE	BEARING	DISTANCE
233 - 234	N00°44'56"E	61.73'
234 - 235	S89°50'48"E	80.00'
235 - 236	S00°44'55"W	60.00'
236 - 237	S89°50'48"E	442.20'
237 - 238	S89°50'48"E	400.05'
238 - 239	S89°50'48"E	396.74'
239 - 240	S89°41'59"E	504.65'
240 - 241	S89°41'59"E	153.68'
241 - 242	S00°13'32"W	150.00'
242 - 243	N89°41'59"W	153.68'
243 - 244	N89°41'59"W	505.75'
244 - 245	N89°50'49"W	392.98'
245 - 246	N89°50'49"W	400.05'
246 - 247	N89°50'49"W	445.80'
247 - 248	S00°24'42"W	50.00'
248 - 249	N89°50'49"W	80.00'
249 - 250	N00°24'42"E	50.00'
270 - 250	S00°24'42"W	75.00'
270 - 233	N00°44'55"E	73.27'
33 - 270	N89°50'48"W	1319.06'

R/W COORDINATES, STATION AND OFFSET

POINT	Y	X	STATION	OFFSET
233	165208.07	234859.73	238+76.21	86.94'
234	165269.80	234860.53	238+76.75	148.67'
235	165269.59	234940.54	239+56.75	148.80'
236	165209.59	234939.75	239+56.23	88.80'
237	165208.40	235381.95	244+00.00	83.79'
238	165207.34	235781.99	247+98.58	78.19'
239	165206.27	236178.73	251+95.32	78.85
240	165203.63	236683.38	257+00.00	78.20'
241	165202.82	236837.06	258+53.68	78.00'
242	165052.82	236836.47	258+53.68	72.00'
243	165053.63	236682.79	257+00.00	71.80
244	165056.28	236177.05	251+94.28	71.15'
245	165057.33	235784.07	248+01.31	71.80'
246	165058.40	235384.03	244+00.00	66.23'
247	165059.59	234938.23	239+55.35	61.20'
248	165009.59	234937.87	239+55.21	111.20'
249	165009.80	234857.87	238+75.21	111.34'
250	165059.80	234858.23	238+75.35	61.34'
270	165134.80	234858.77	238+75.57	13.67'
TLE509	165289.80	234860.79		
TLE510	165289.59	234940.59		
TLE511	165231.27	236179.21		
TLE512	165229.81	236459.03		



REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN BURNETT COUNTY, AS SHEET 2 OF 2 OF DOCUMENT NO. 423591 OF TPP'S FOR ADDITIONAL INFORMATION. ORIGINAL ACCESS CONTROL ALONG STH 70 ESTABLISHED BY STATUTES 84.25 AS DEPICTED ON PREVIOUS PROJECTS T 028-3(12) and T0157(21),

SEE TITLE SHEET FOR NOTES, ABBREVIATIONS AND SYMBOLS.

AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
2433 Oakpoint Hills Parkway
Eau Claire, WI 54701

I, JOHN C. FAVORITE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 8010-01-25-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 2/5/13

(PRINTED NAME) JOHN C. FAVORITE

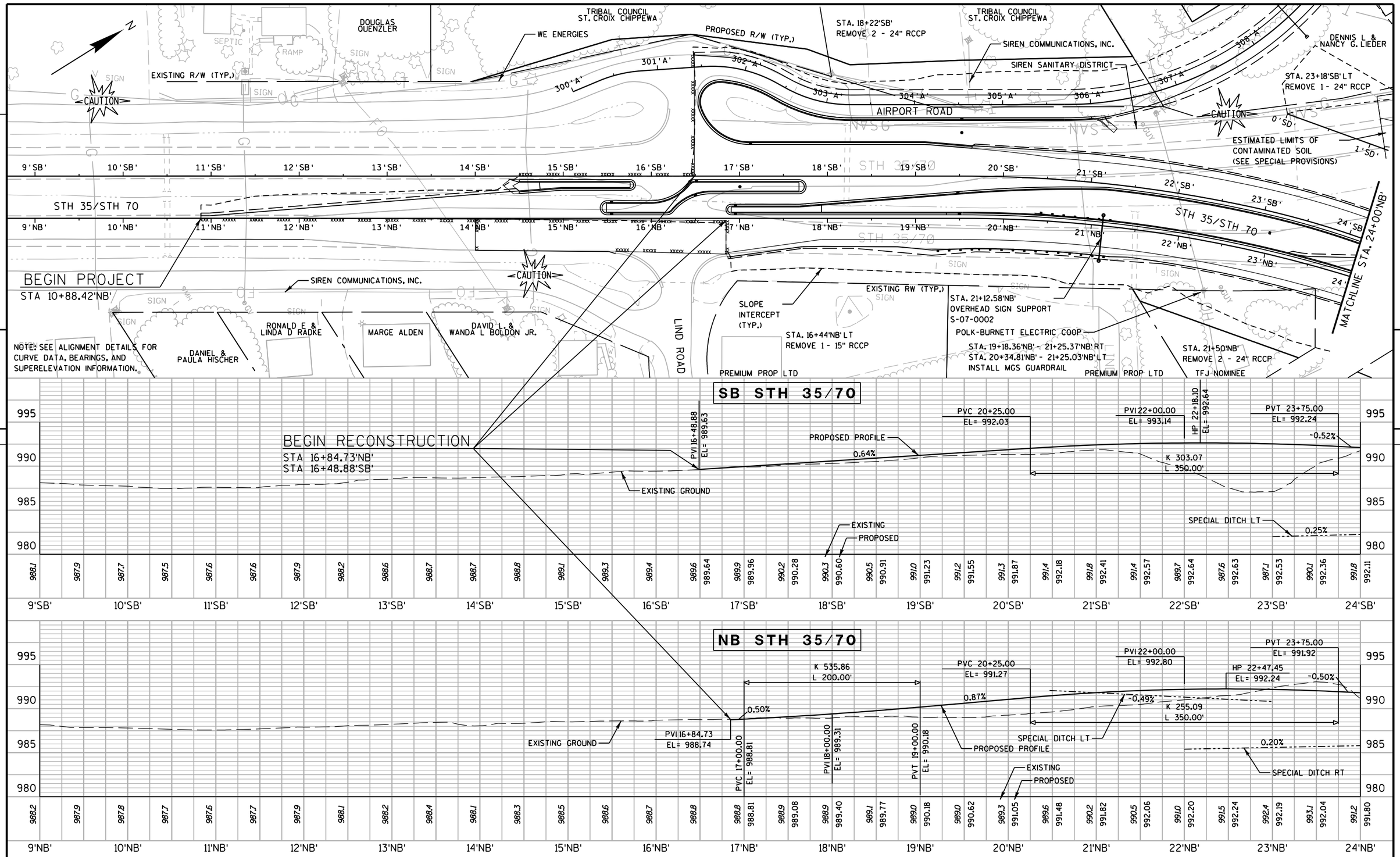
(REGISTRATION NUMBER) S-1890

WISCONSIN JOHN C. FAVORITE S-1890 MADISON WI LAND SURVEYOR

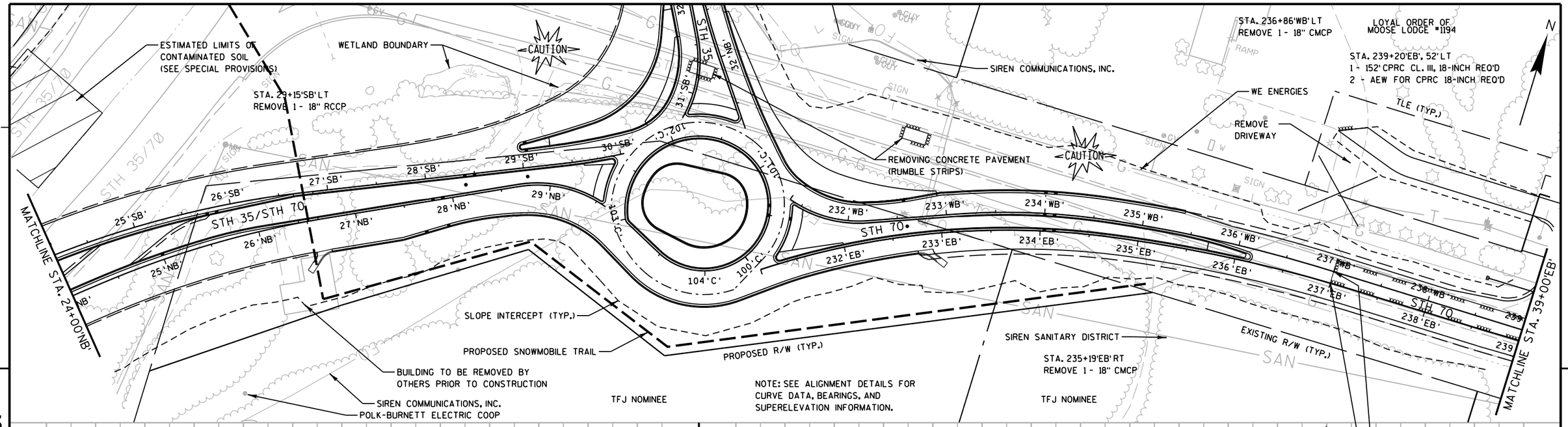
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

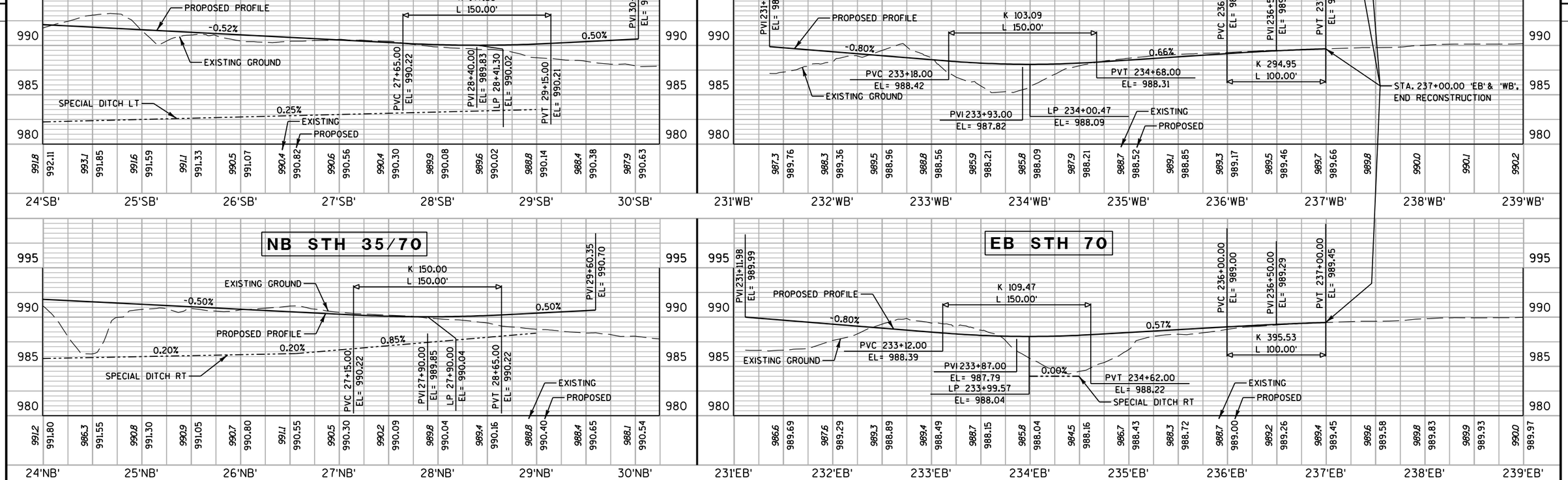
(SIGNATURE) _____ DATE 2/5/13

(PRINTED NAME) MICHAEL PILLER

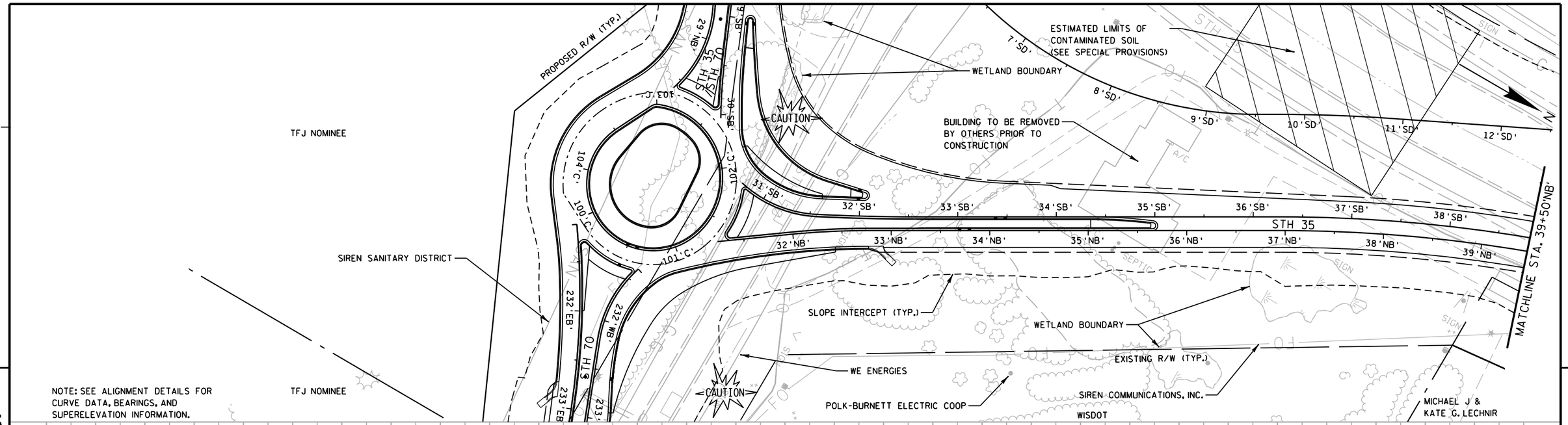


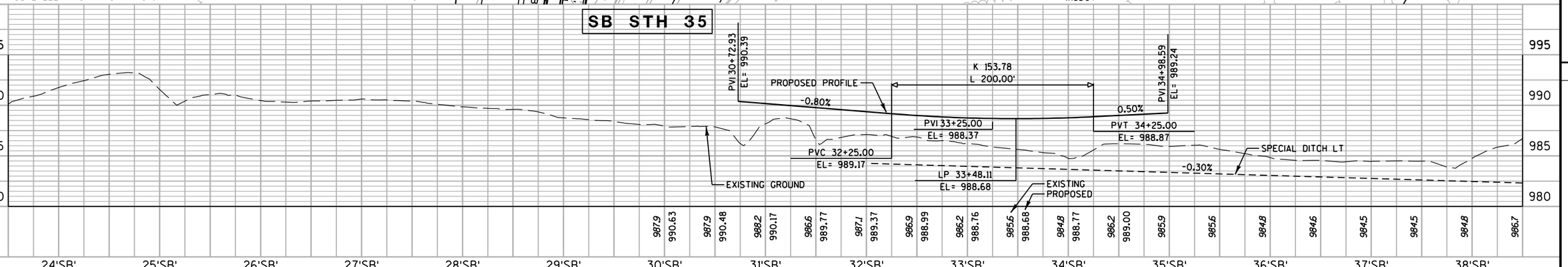
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - STH 35/STH 70	SHEET 150 E

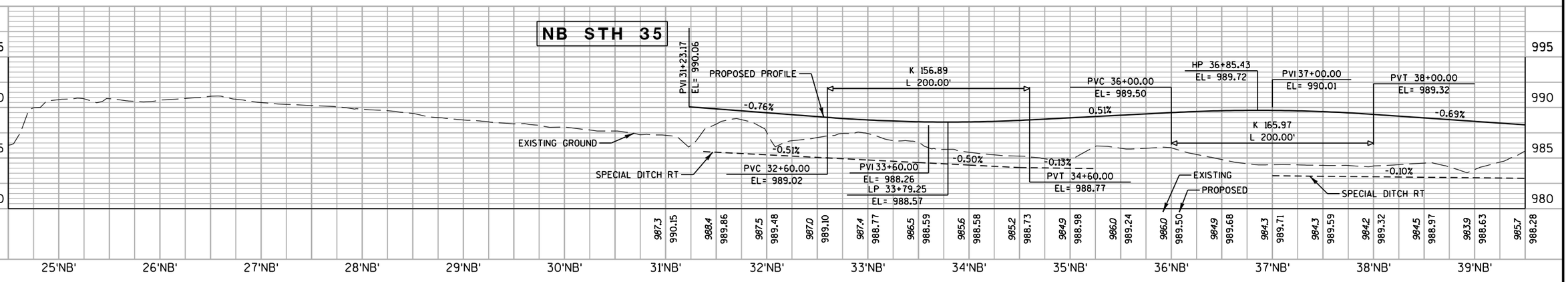




PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - STH 35/STH 70	SHEET 151 E







PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - STH 35	SHEET	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\050103_pp.dgn PLOT DATE : 4/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

STA. 39+50'SB'LT
REMOVE 1 - 24" RCCP

WE ENERGIES

SIREN COMMUNICATIONS, INC.

STA. 42+10'SB'RT
REMOVE 1 - 15" RCCP

BURNETT COUNTY

CTH K

SEPTIC

CANOPY

SLOPE INTERCEPT (TYP.)

STA. 39+25'SB'
REMOVE 1 - 24" RCCP

MATCHLINE STA. 39+50'NB'

STH 35

OBLITERATE EXISTING DRIVEWAY

PROPOSED R/W (TYP.)

EXISTING R/W (TYP.)

POLK-BURNETT ELECTRIC COOP

OBLITERATE EXISTING STH 35

END PROJECT
STA 50+37.75'NB'

NOTE: SEE ALIGNMENT DETAILS FOR CURVE DATA, BEARINGS, AND SUPERELEVATION INFORMATION.

STA. 39+72'NB'
REMOVE 1 - 15" CMCP

MICHAEL J & KATE G LECHNIR

STACY SYBERS

CHRISTOPHER SYBERS

JK LAND DEVELOPMENT, INC.

SB STH 35

EXISTING GROUND

SPECIAL DITCH LT

-0.30%

EXISTING

NB STH 35

STA. 39+50'NB'
1 - 106' CRCP CL. III 18-INCH REQD
2 - AEW FOR CPRC 18-INCH REQD

STA. 40+43'NB'
1 - 144' CRCP CL. III 18-INCH REQD
2 - AEW FOR CPRC 18-INCH REQD

K 192.25
L 200.00'

PROPOSED PROFILE

-0.69%

PVC 41+30.00
EL= 987.04

0.35%

PVT 43+30.00
EL= 986.70

0.48%

0.50%

0.22%

-0.50%

-0.60%

-0.50%

PVI 42+30.00
EL= 986.35

LP 42+62.71
EL= 986.58

SPECIAL DITCH RT

EXISTING

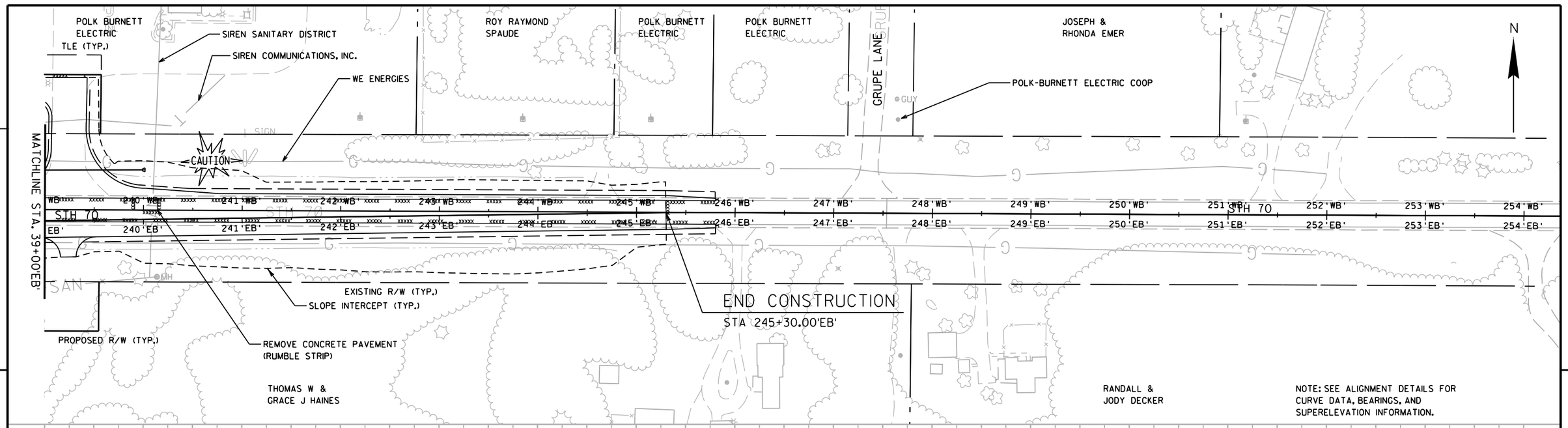
PROPOSED

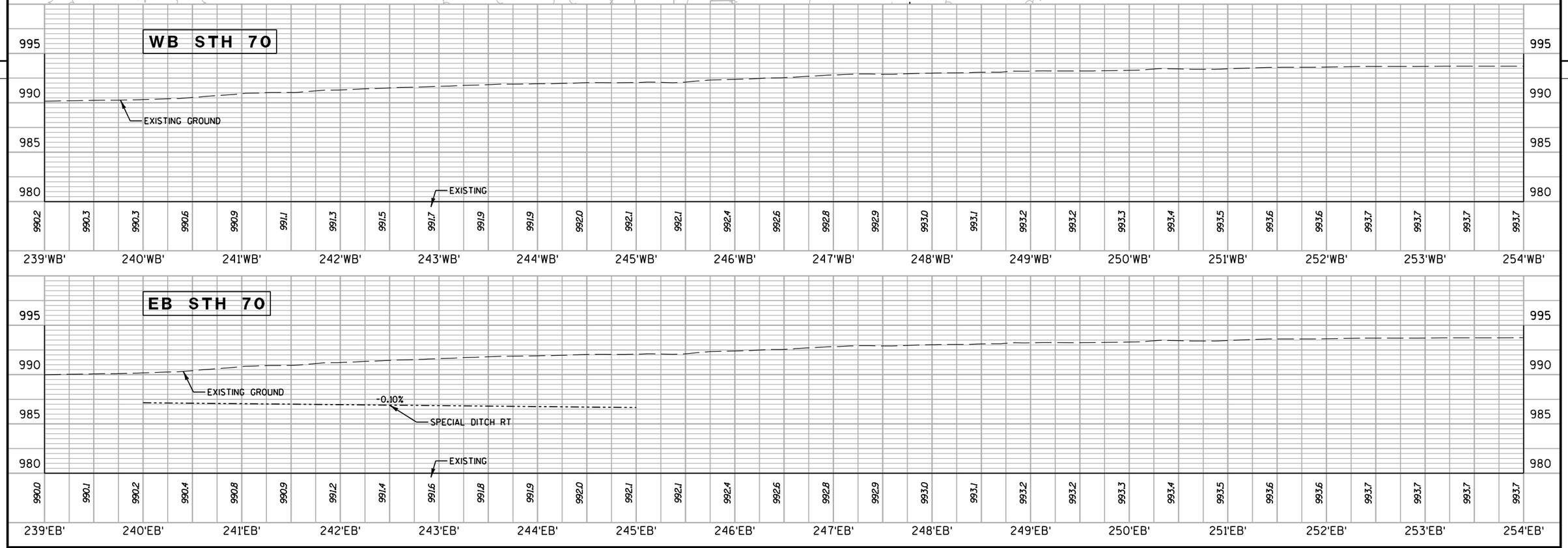
EXISTING GROUND

PVI 47+09.62
EL= 988.03

END RECONSTRUCTION
STA 47+09.62'NB'

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - STH 35	SHEET 153	E

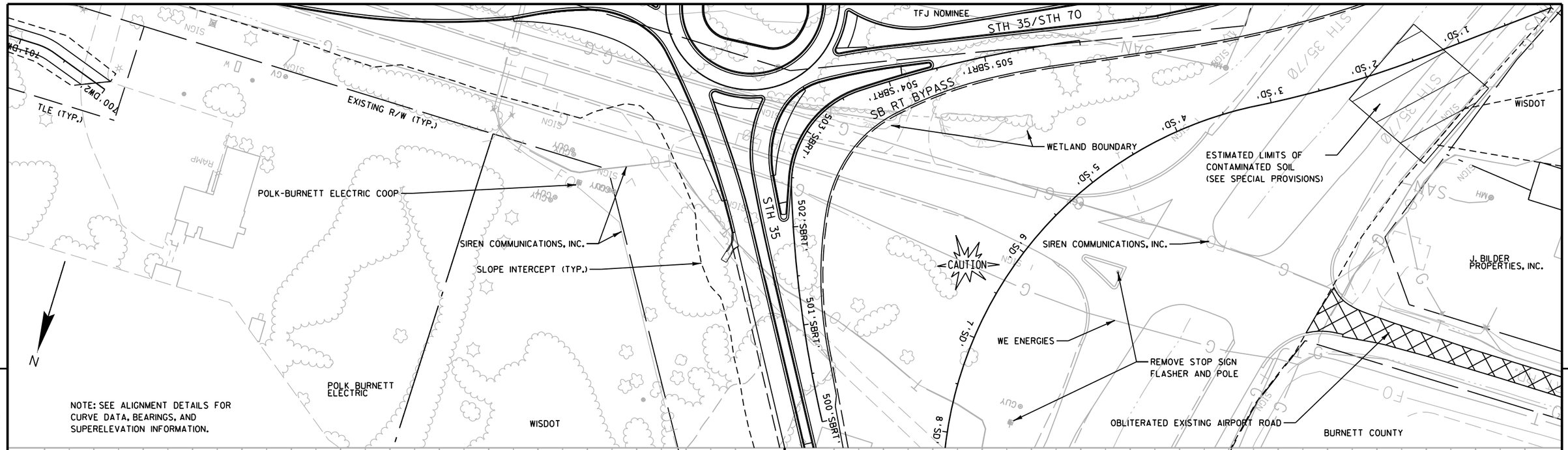




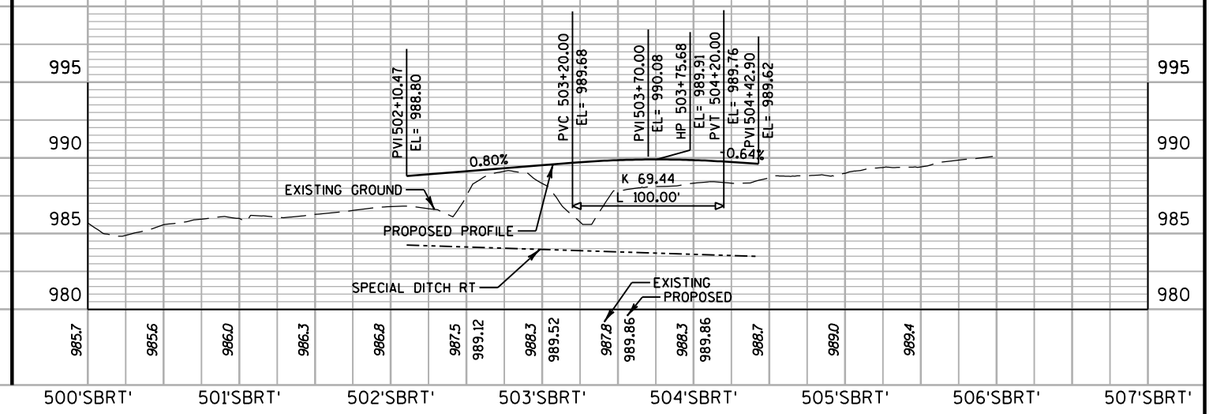
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - STH 70	SHEET 154	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\050105_pp.dgn PLOT DATE : 4/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 46



SB RIGHT TURN BYPASS PROFILE



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - RIGHT TURN BYPASSES	SHEET 155	E

J. BILDER PROPERTIES, INC.

WISDOT

WISDOT

POLK BURNETT ELECTRIC

POLK-BURNETT ELECTRIC COOP

WE ENERGIES

TLE (TYP.)

CAUTION

WETLAND BOUNDARY

STH 35/STH 70

STH 35

STH 70

PROPOSED R/W (TYP.)

EXISTING R/W (TYP.)

SLOPE INTERCEPT (TYP.)

NOTE: SEE ALIGNMENT DETAILS FOR CURVE DATA, BEARINGS, AND SUPERELEVATION INFORMATION.

SIREN COMMUNICATIONS, INC.

SIREN SANITARY DISTRICT

TFJ NOMINEE

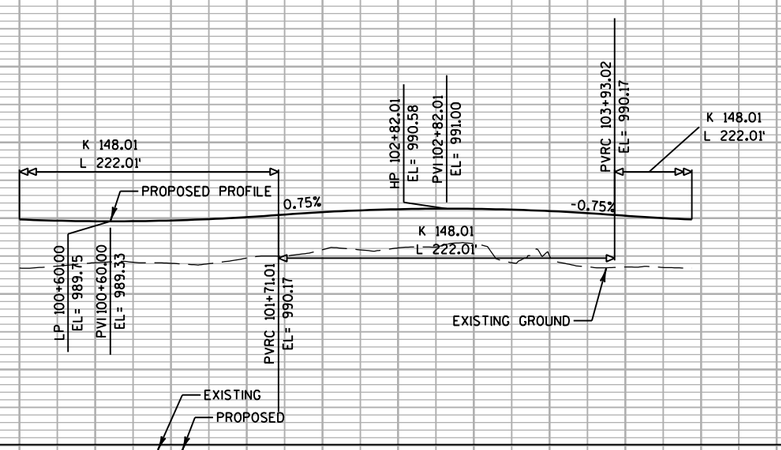
TFJ NOMINEE

TFJ NOMINEE

N

5

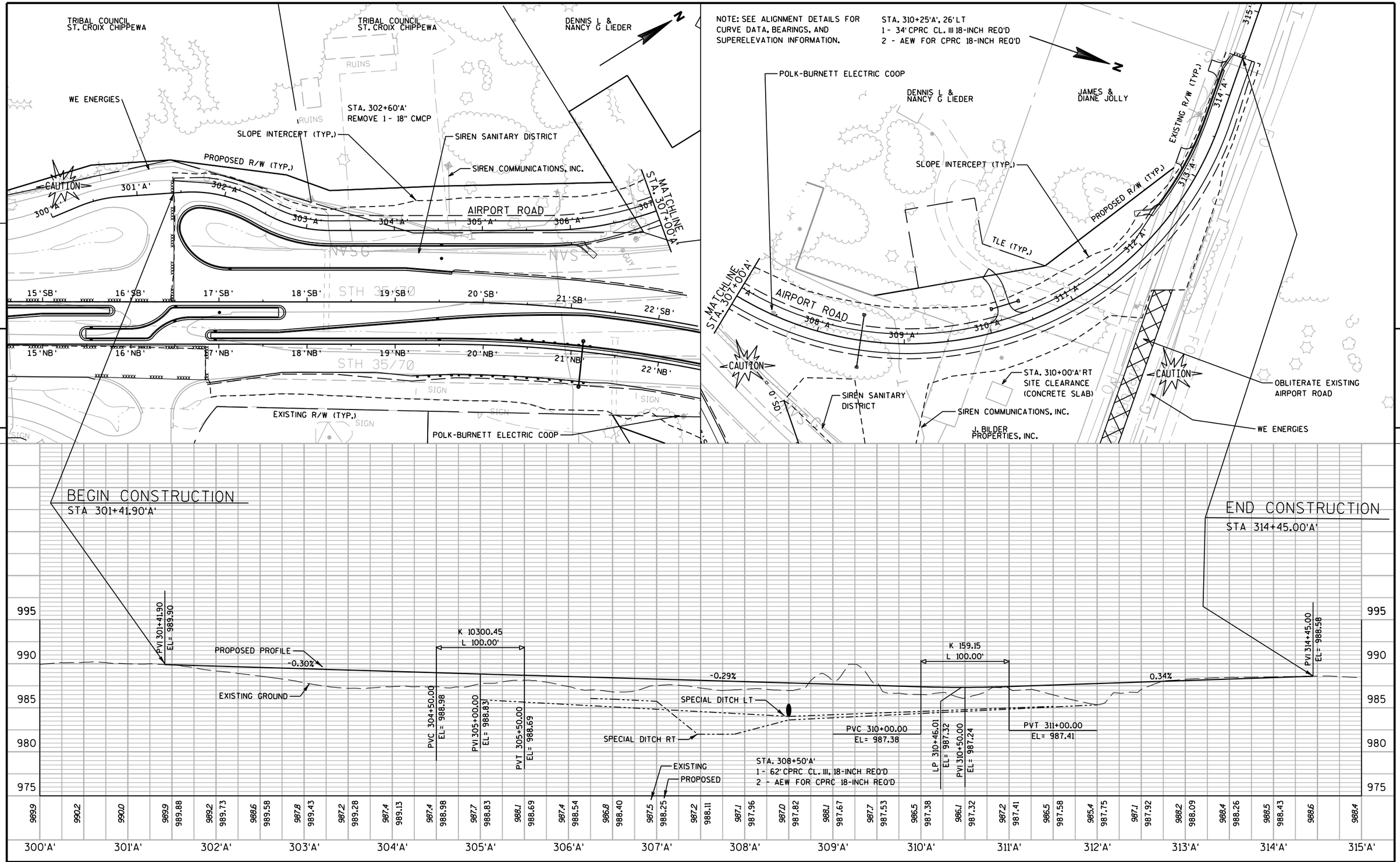
5



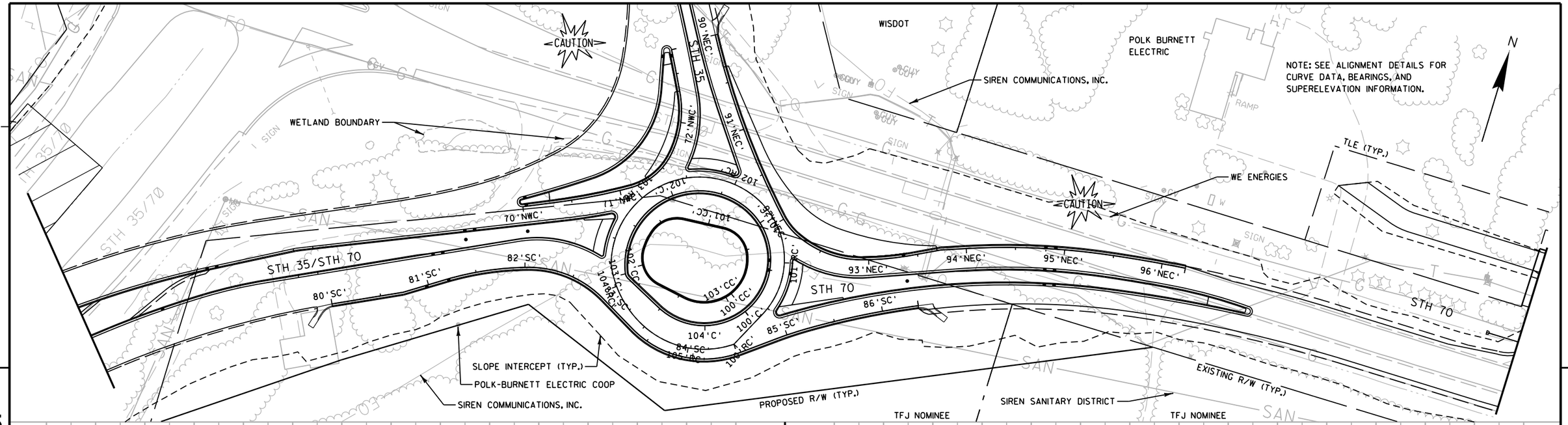
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - CIRCLE	SHEET 156	E

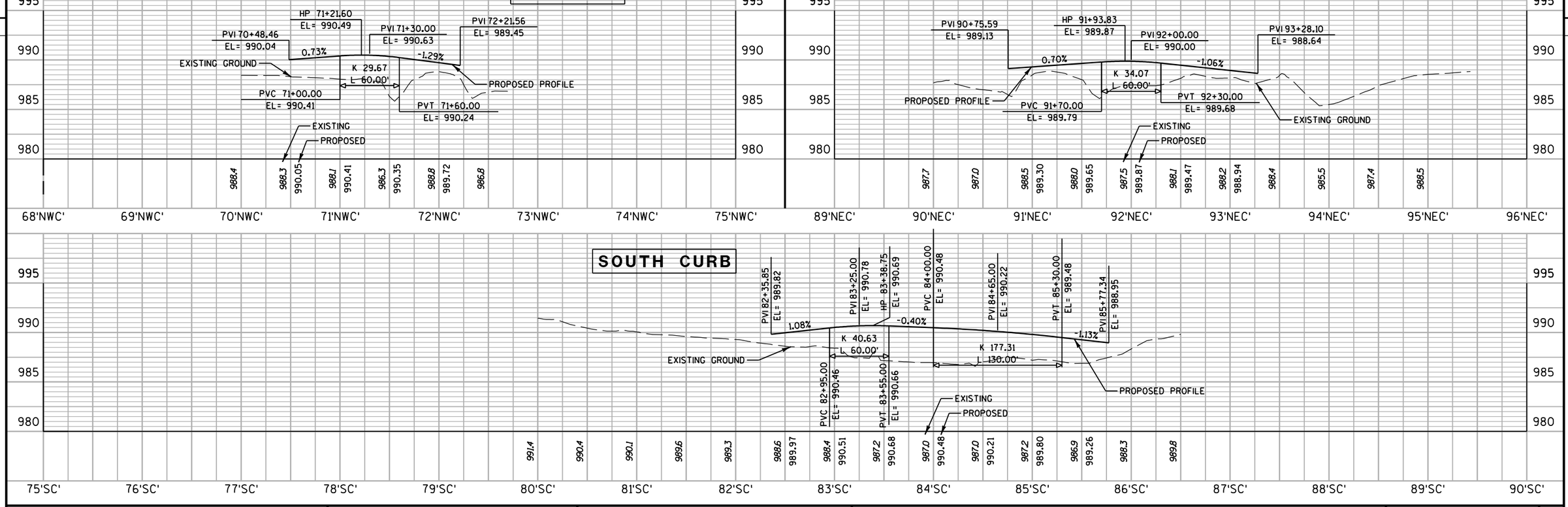
FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\050107_pp.dgn PLOT DATE : 4/30/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 40

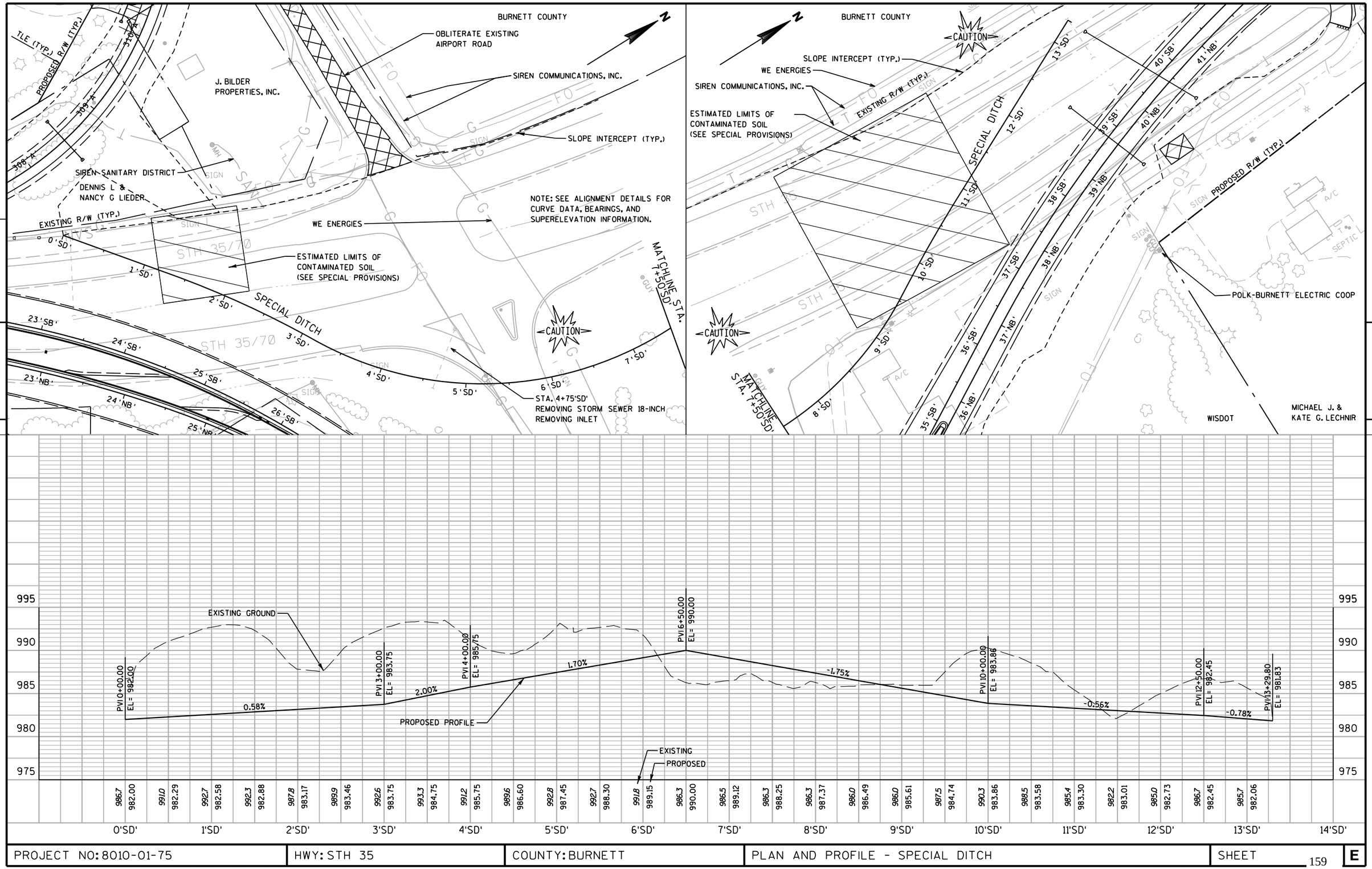


PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - AIRPORT ROAD	SHEET 157	E





PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - CURB PROFILES	SHEET 158 E

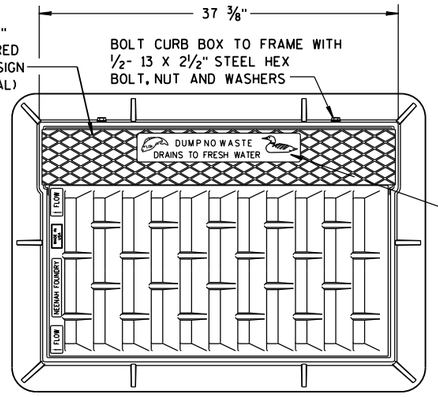


PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PLAN AND PROFILE - SPECIAL DITCH	SHEET 159	E

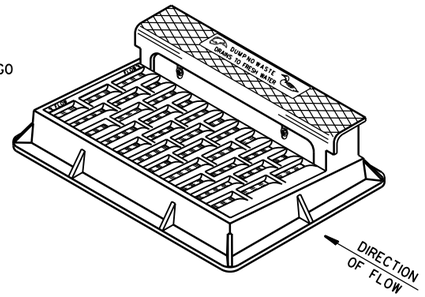
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-07	CONDUIT
09B04-10	PULL BOX
09C02-06	CONCRETE BASES, TYPES 1, 2 & 5
09C03-03	TRANSFORMER/PEDESTAL BASES
09D01-04	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E01-12D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-12G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-04	NON-FREEWAY LIGHTING UNIT POLE WIRING
11B02-02	CONCRETE MEDIAN NOSE
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
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)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDABOUT ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C11-05	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C15-03	36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D09-03	TRAFFIC CONTROL, SINGLE LANE CROSSOVER EXIT
15D12-04	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D20-02	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

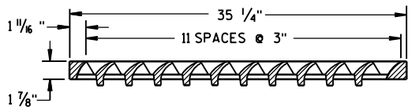
6

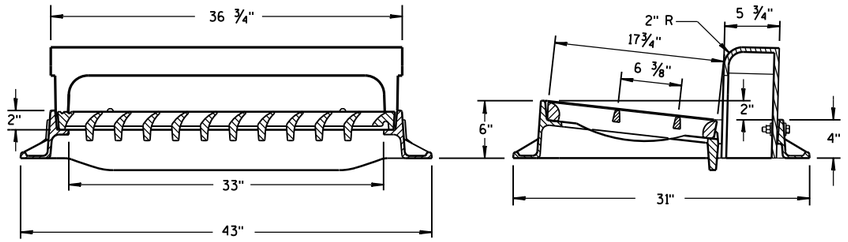


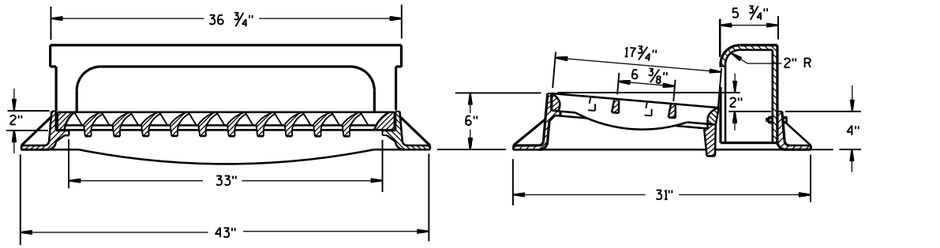
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

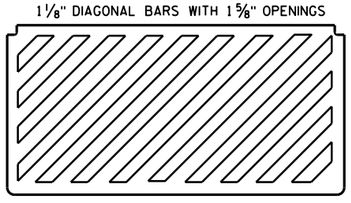






TYPE "H"

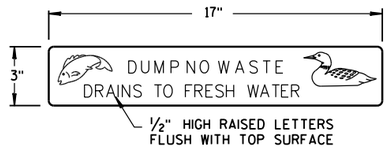
NOTE: EITHER CASTING IS ACCEPTABLE



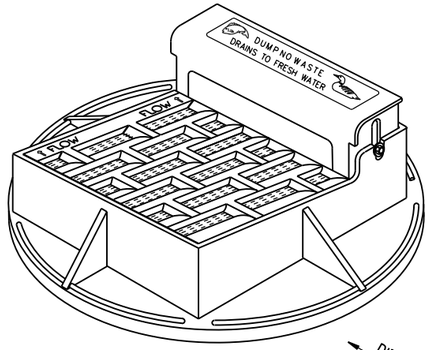
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

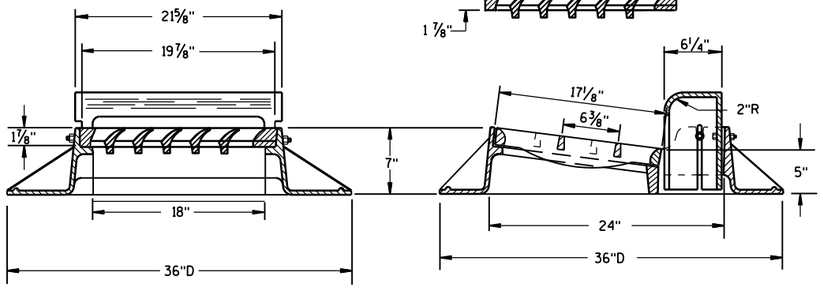


LOGO DETAIL

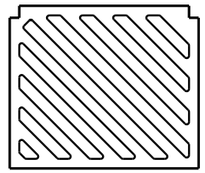


NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



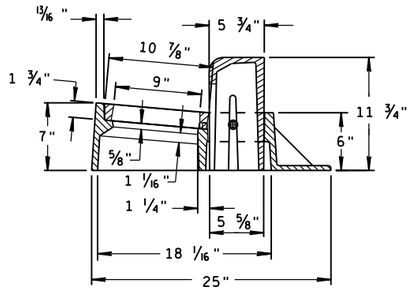
TYPE "A"

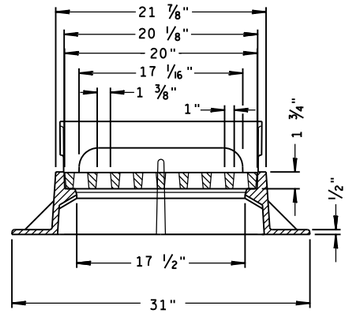


SPECIAL GRATE FOR TYPE "A" COVER

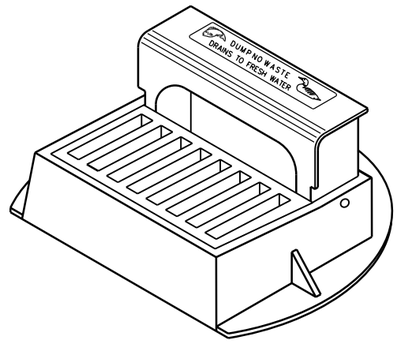
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

INLET COVERS TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

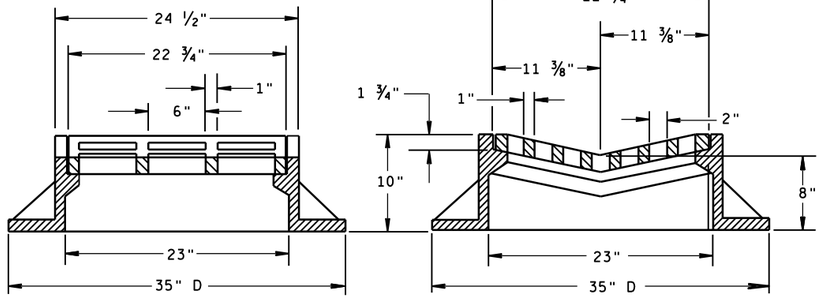
11-27-13 — DATE

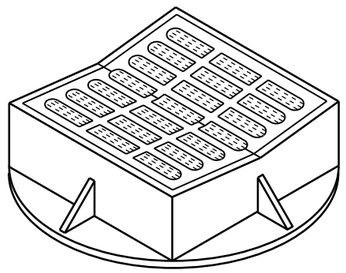
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

FHWA

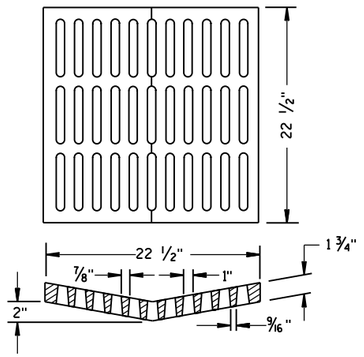
6

S.D.D. 8 A 5-19a



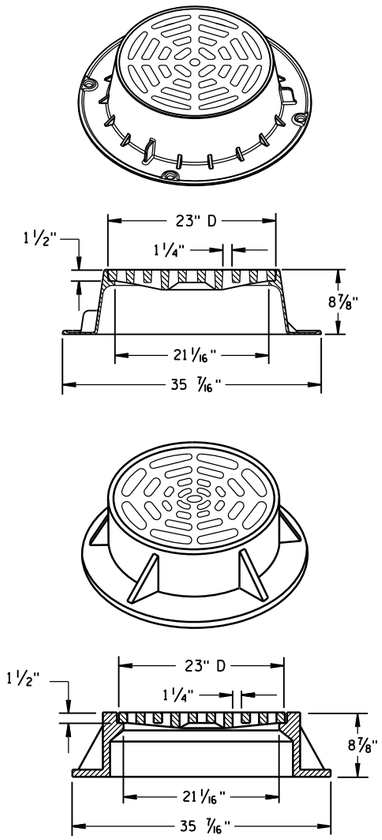


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

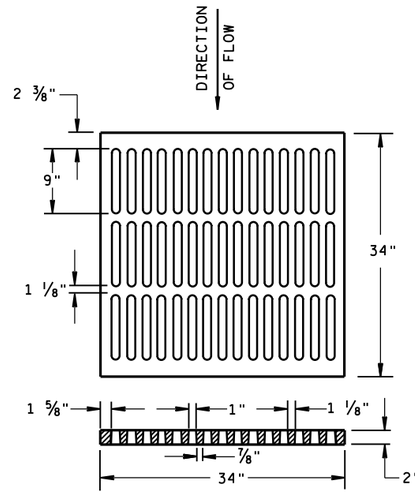
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

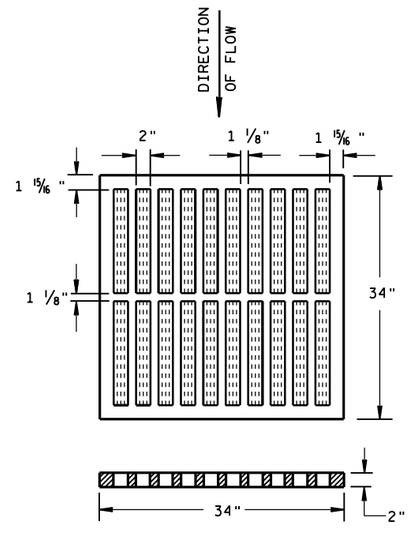
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



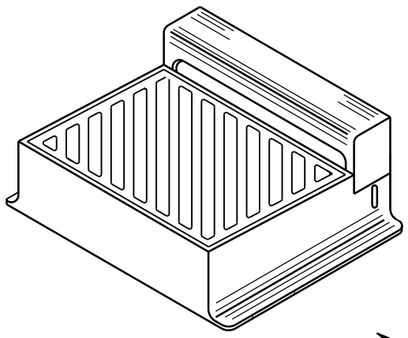
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

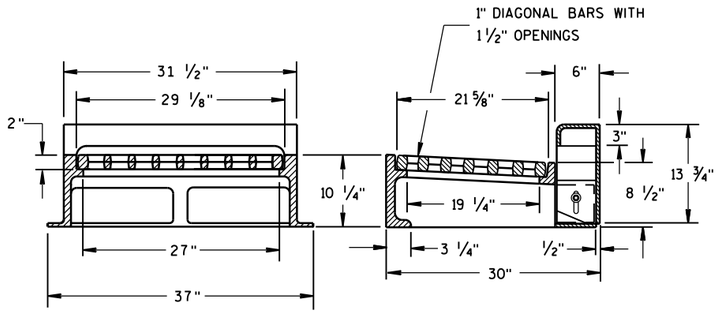


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

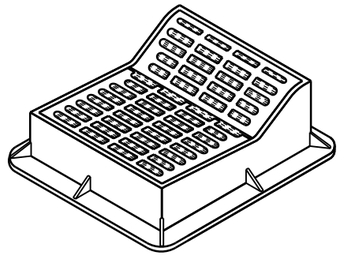
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

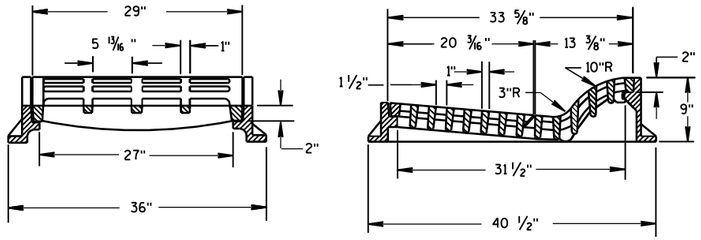
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

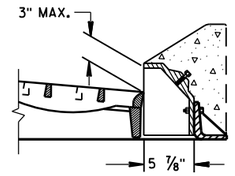
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

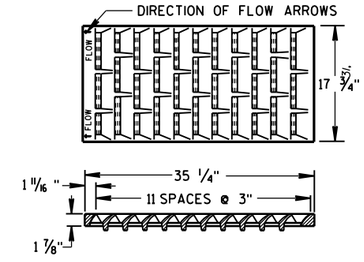
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

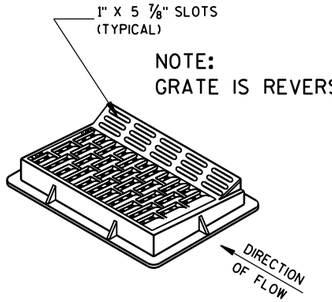
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

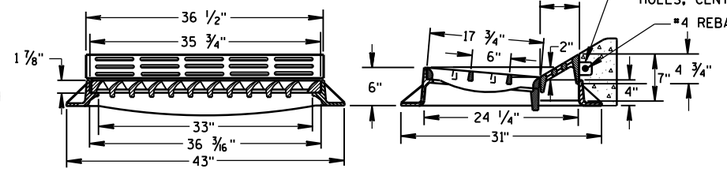
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



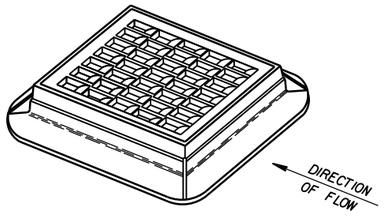


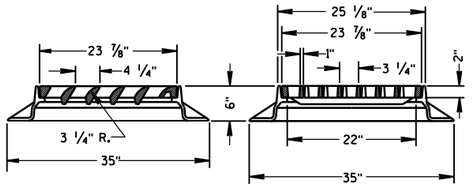


TYPE "HM"

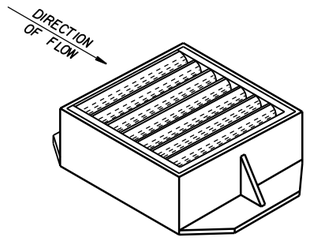
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

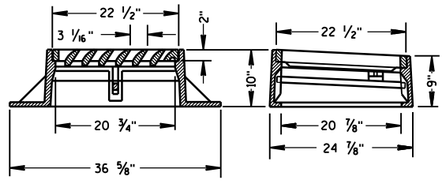
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



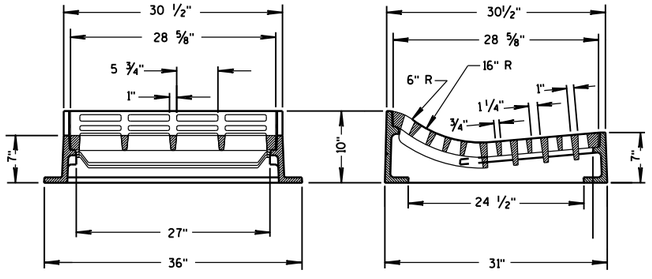


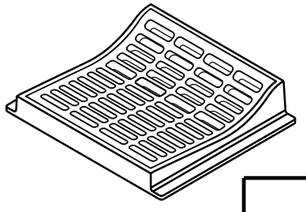
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

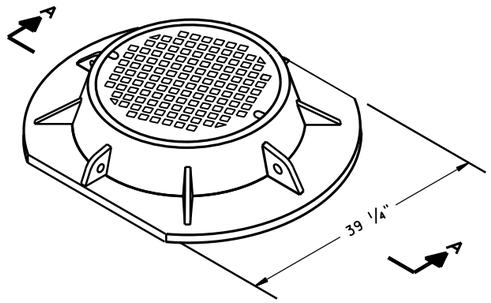
APPROVED
11/27/2013
DATE

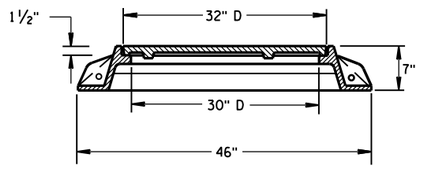
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

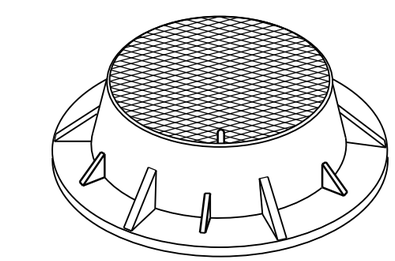
6

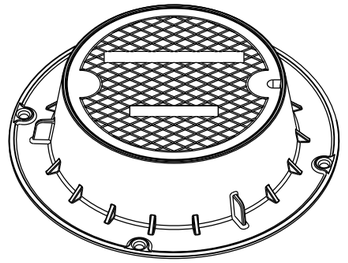
S.D.D. 8 A 5-19c

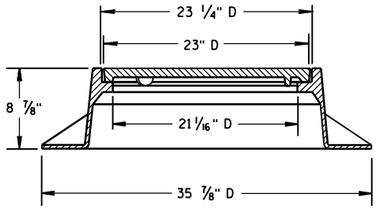


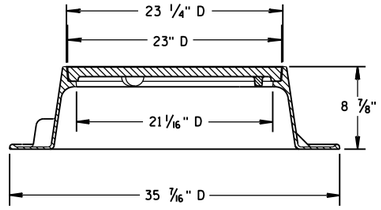


SECTION A-A
TYPE "K"









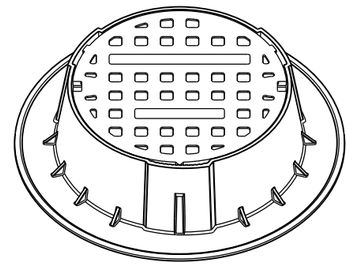
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

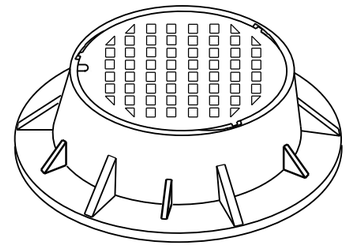
GENERAL NOTES

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

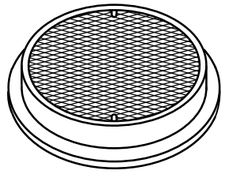
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

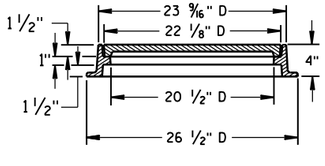
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



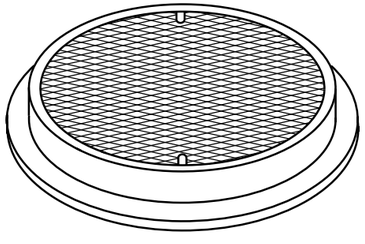


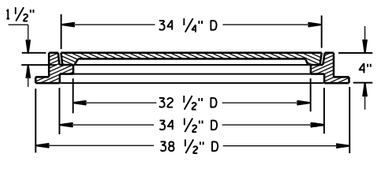
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



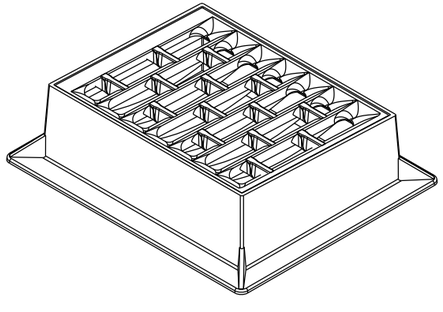


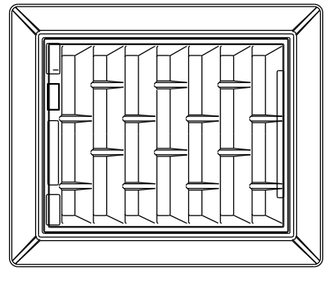
TYPE "L"

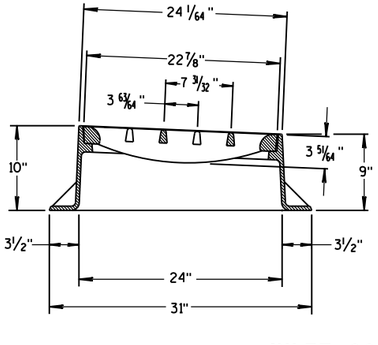


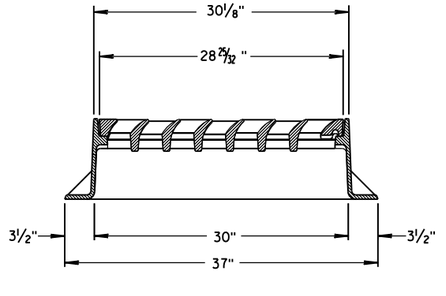


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

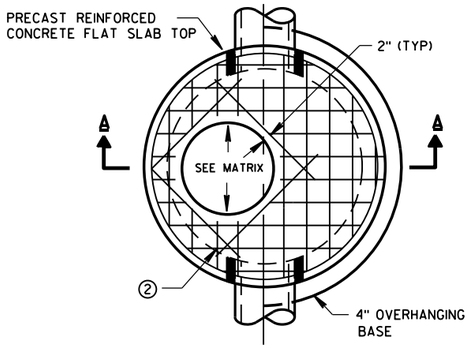
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

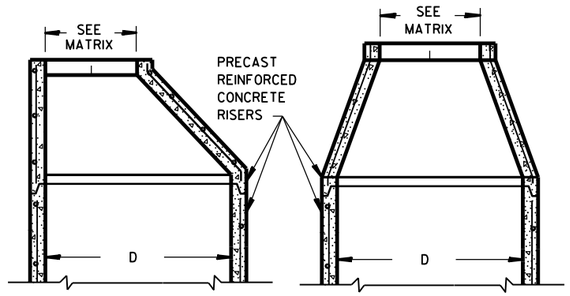
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

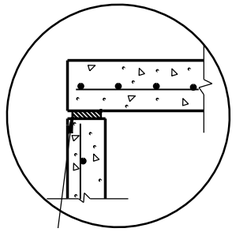


PLAN VIEW CIRCULAR OPENING

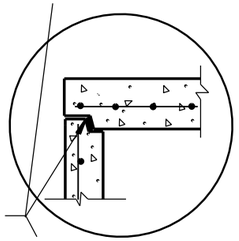


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

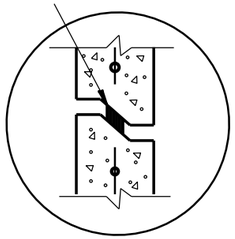


TOP WITH PLAIN END JOINT



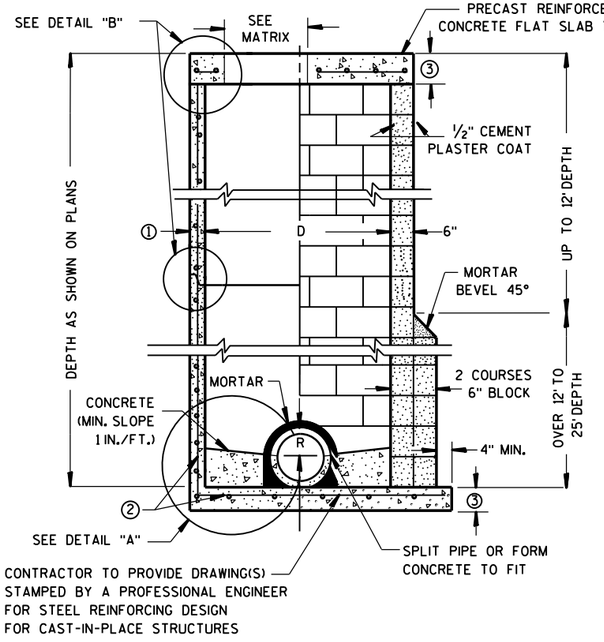
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



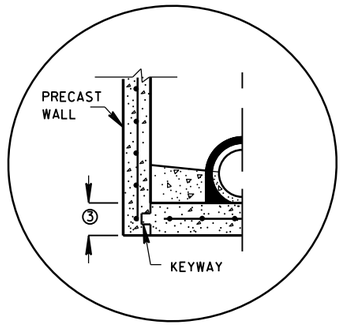
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

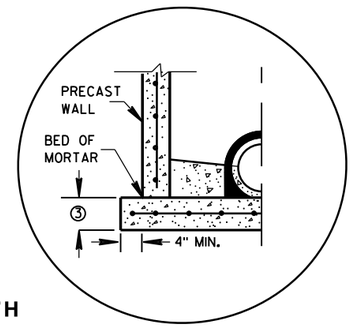


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

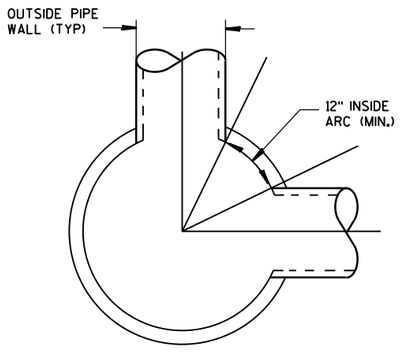


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

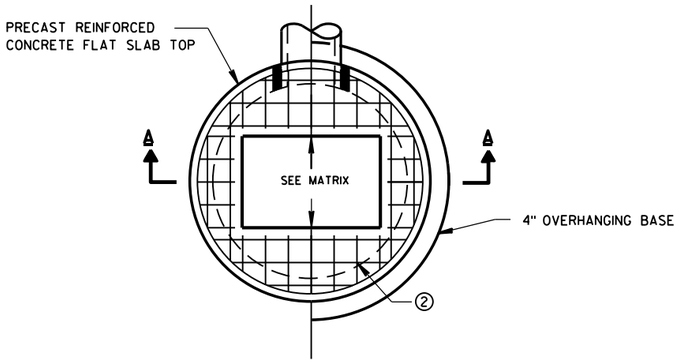
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

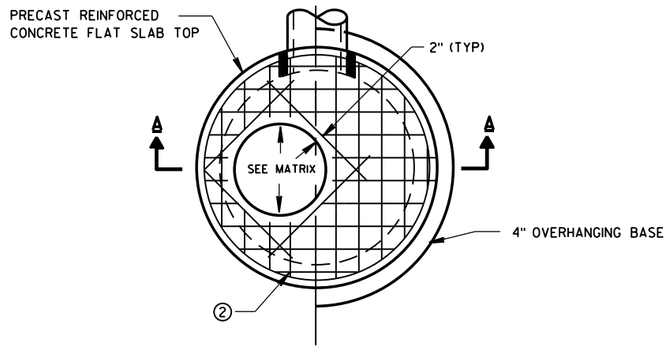
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

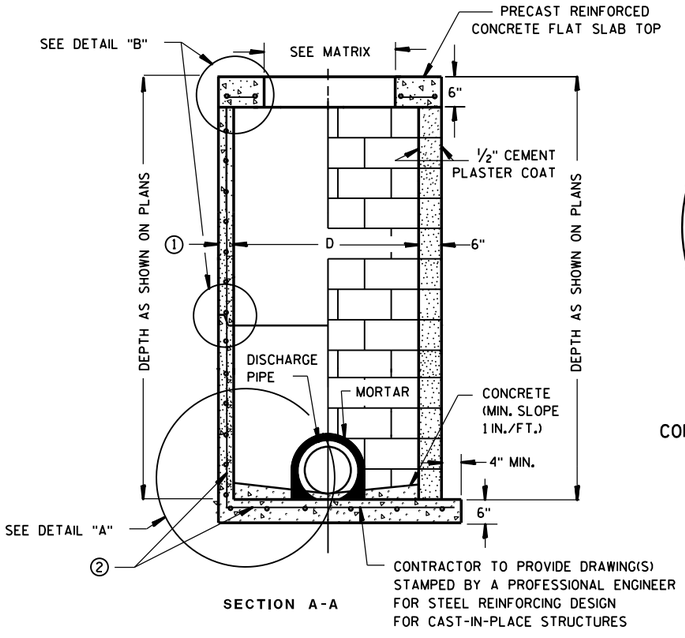
6
S.D.D. 8 B 9-1



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

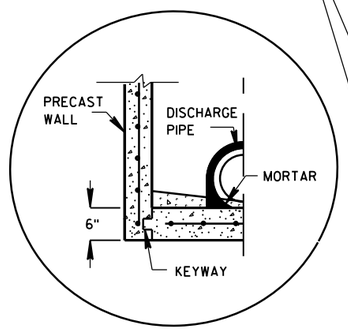


SECTION A-A

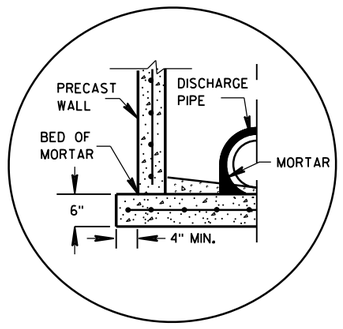
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

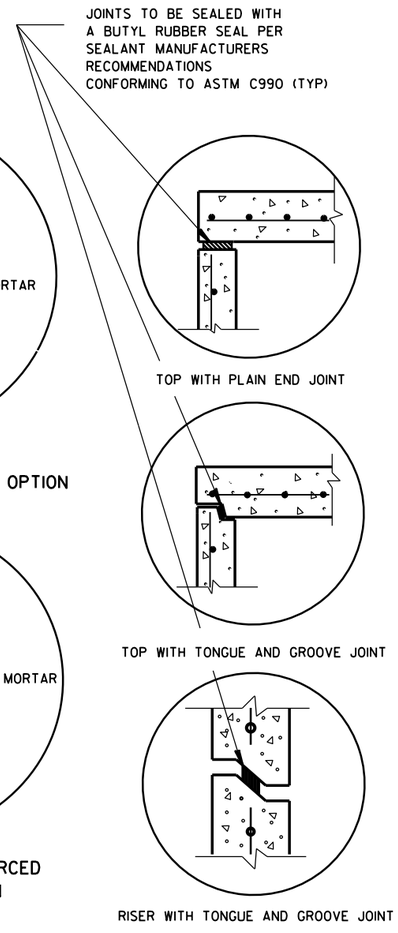


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

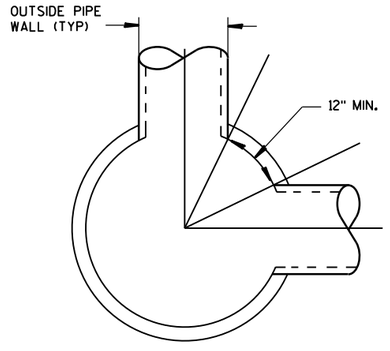
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

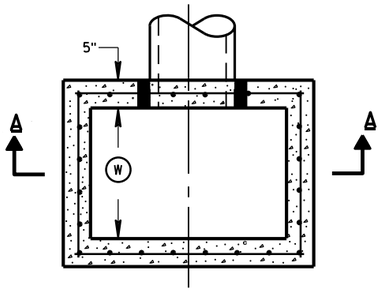
6

S.D.D. 8 C 6-1

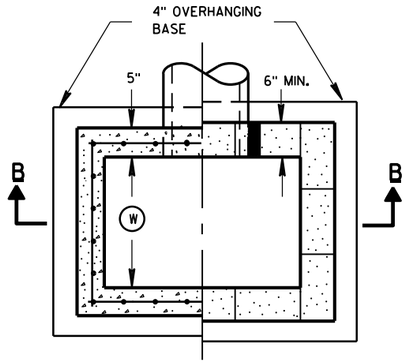
6

S.D.D. 8 C 6-1

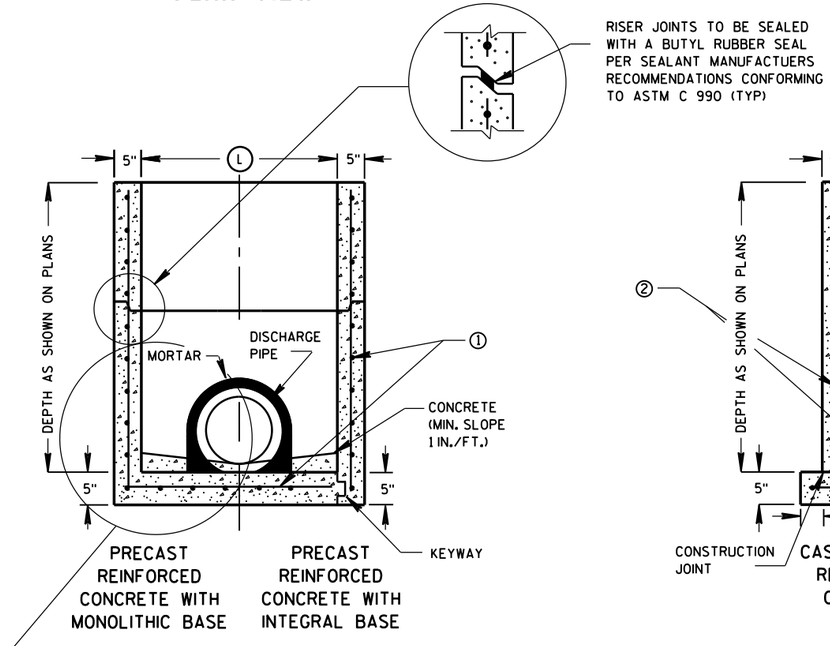
INLETS 3-FT AND 4-FT DIAMETER



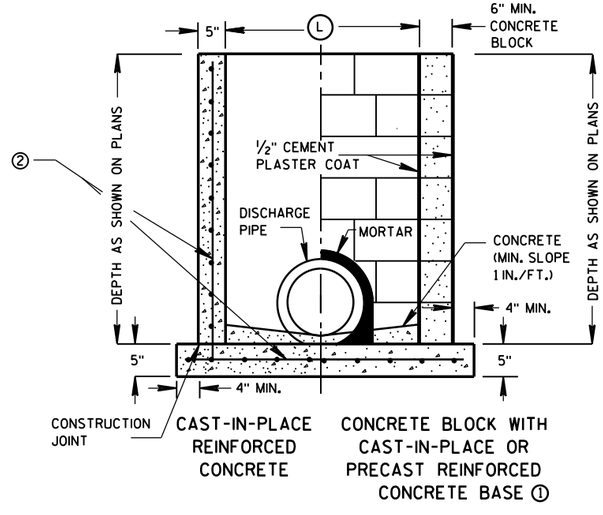
PLAN VIEW



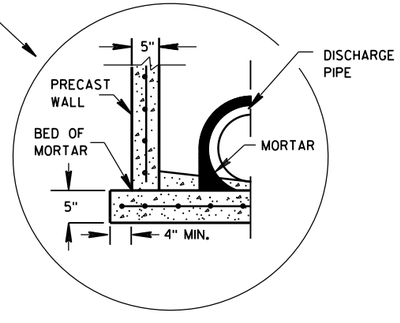
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

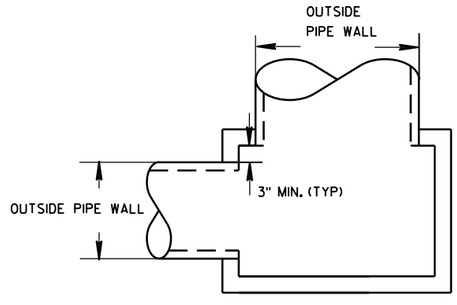
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



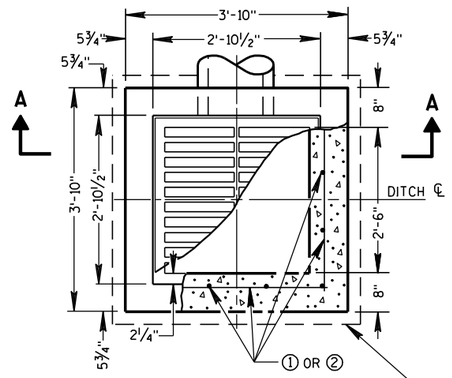
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

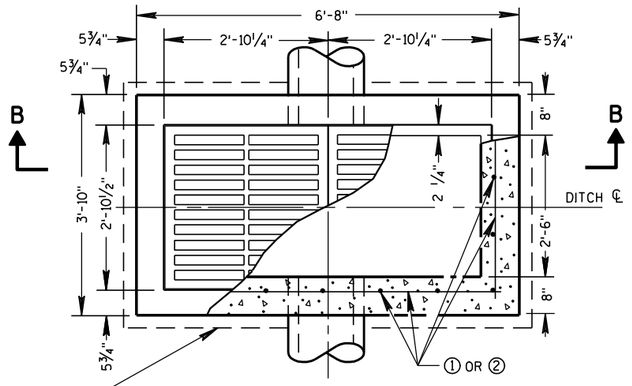
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE ENGINEER
FHWA

6
S.D.D. 8 C 7-1

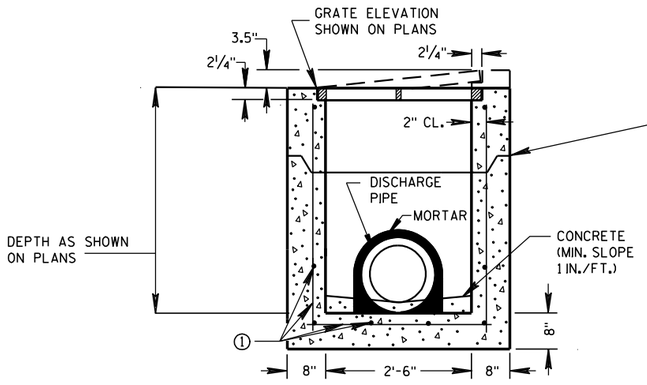


PLAN VIEW

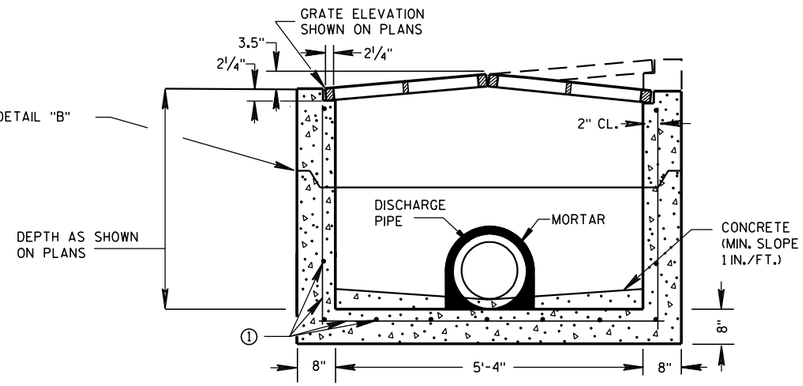


PLAN VIEW

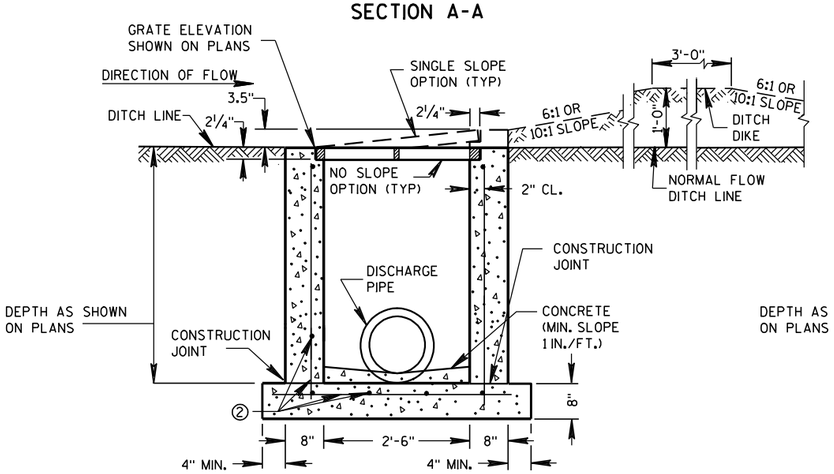
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



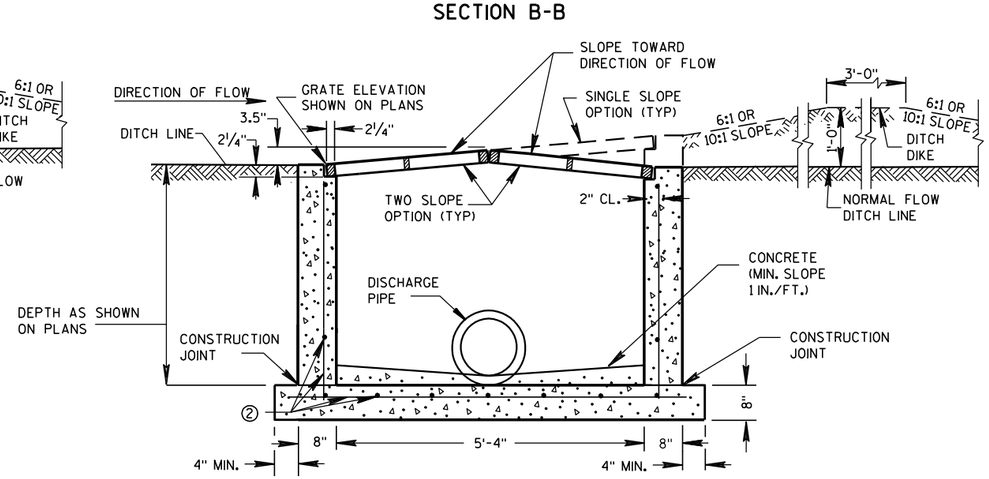
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

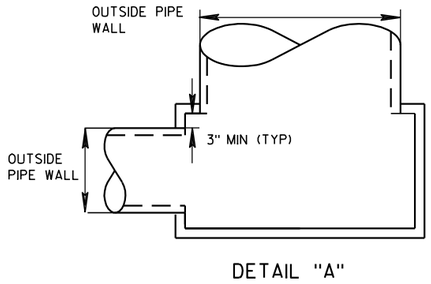
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

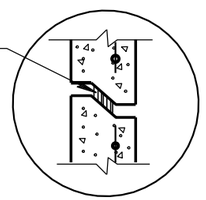
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

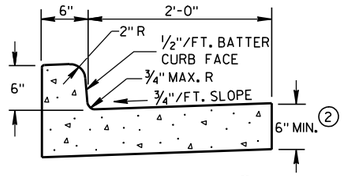
APPROVED

6/5/2012
DATE

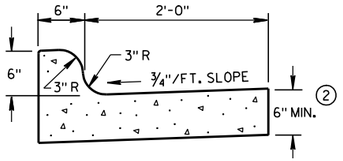
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

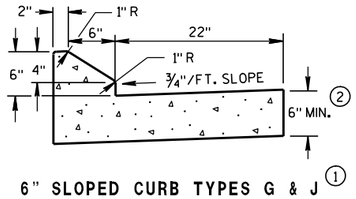
6
S.D.D. 8 C 8-1



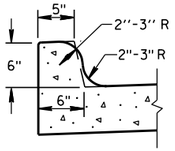
TYPES A & D (1)



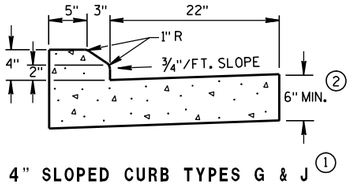
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

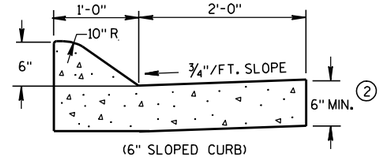


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

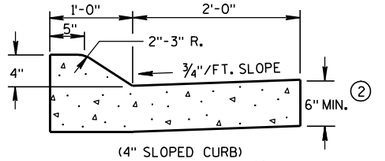


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

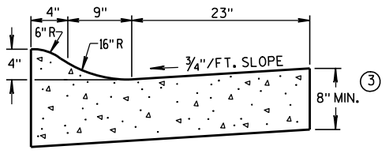


(6" SLOPED CURB)



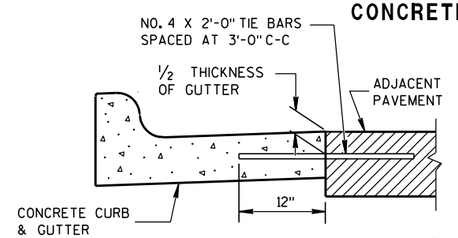
(4" SLOPED CURB)

TYPES A & D (1)

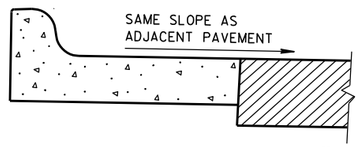


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"



TYPICAL TIE BAR LOCATION (1)



REVERSE SLOPE GUTTER (5)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

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

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

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

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

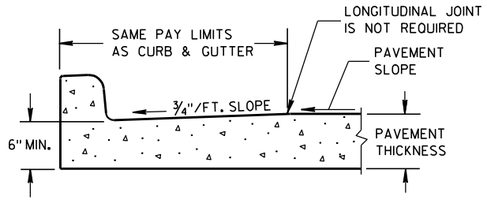
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

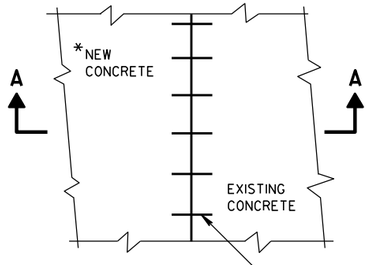
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(4) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(5) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

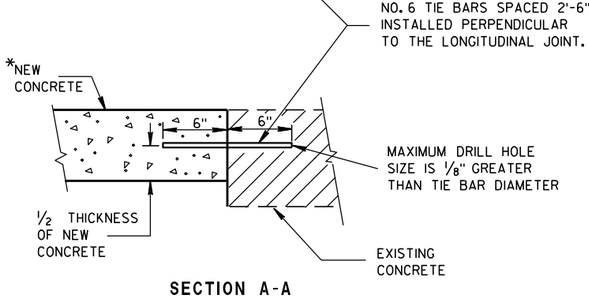


PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



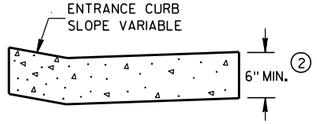
PLAN VIEW

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

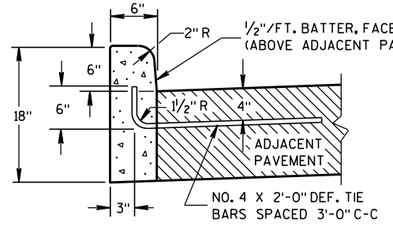


SECTION A-A

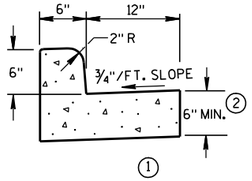
TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

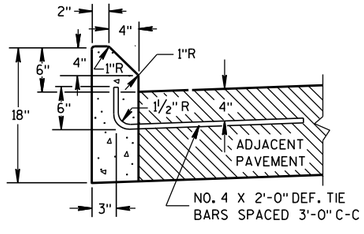


(1) TYPES A & D

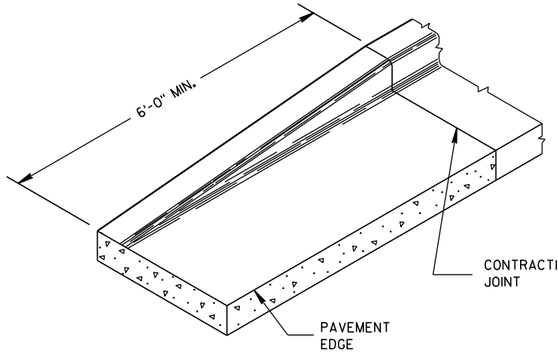


(1) TYPES A & D

CONCRETE CURB & GUTTER 18"



(1) TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER
FHWA

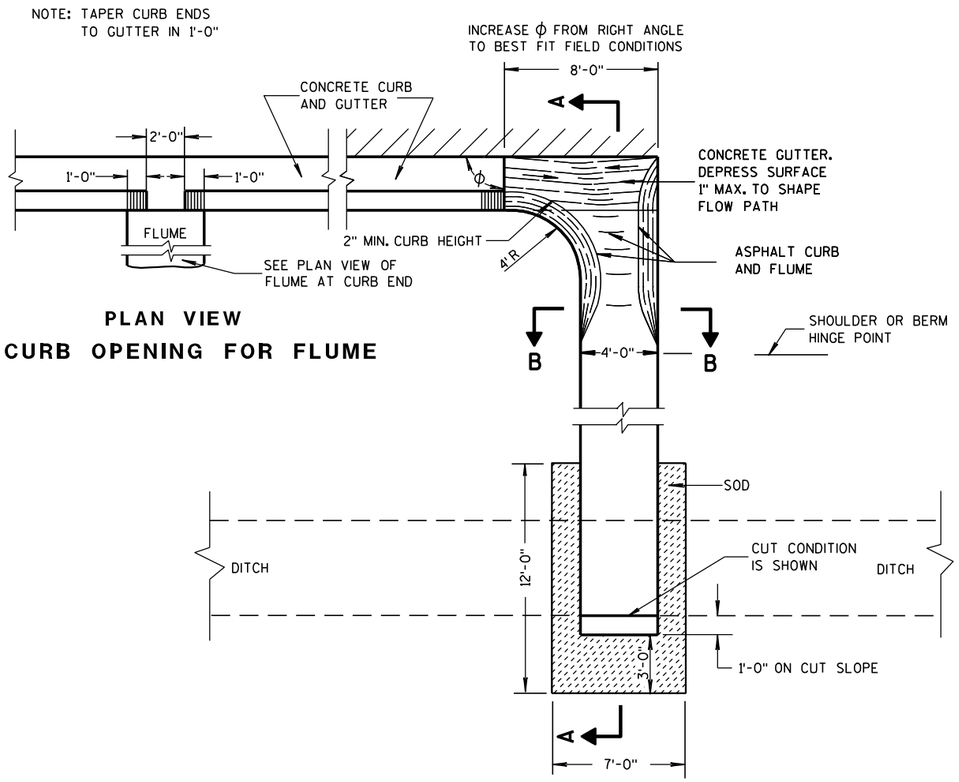
6

S.D.D. 8 D 1-17

6

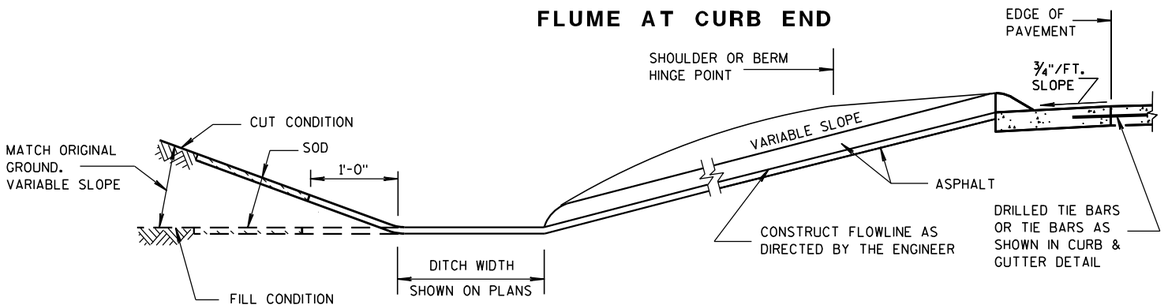
S.D.D. 8 D 1-17

ASPHALTIC FLUME

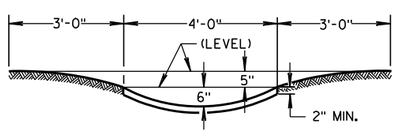


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

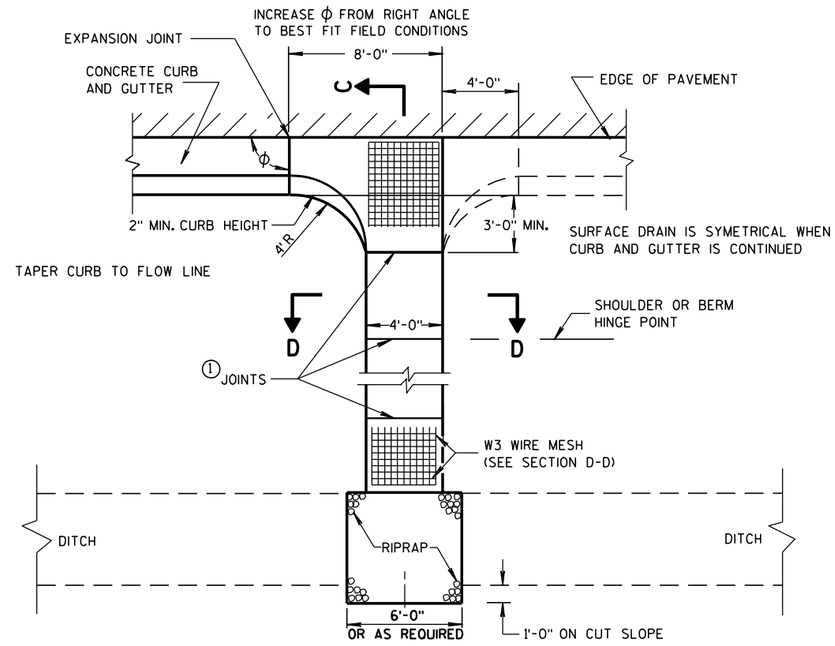
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

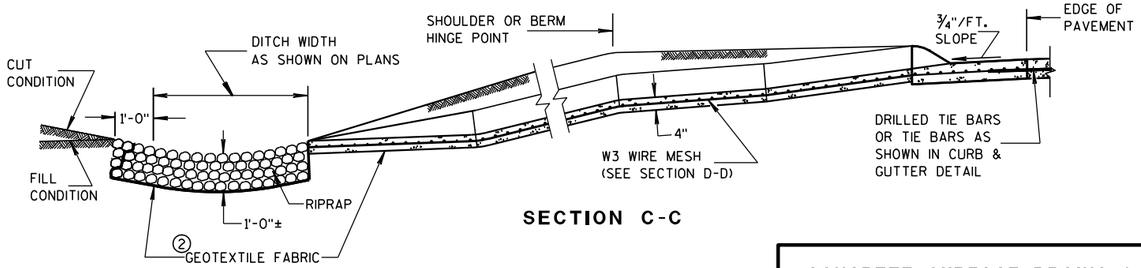
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

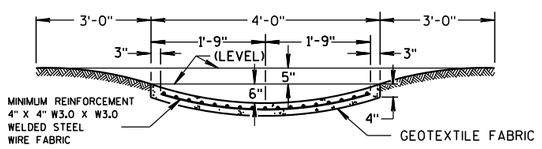
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

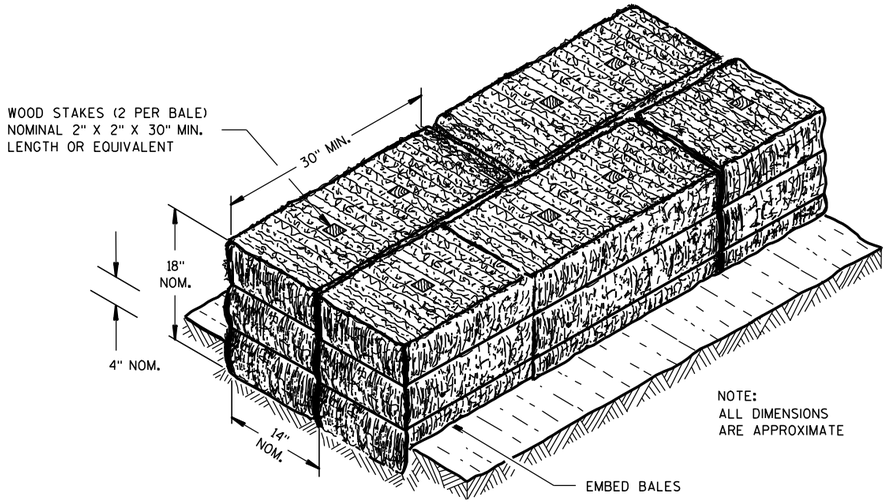
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

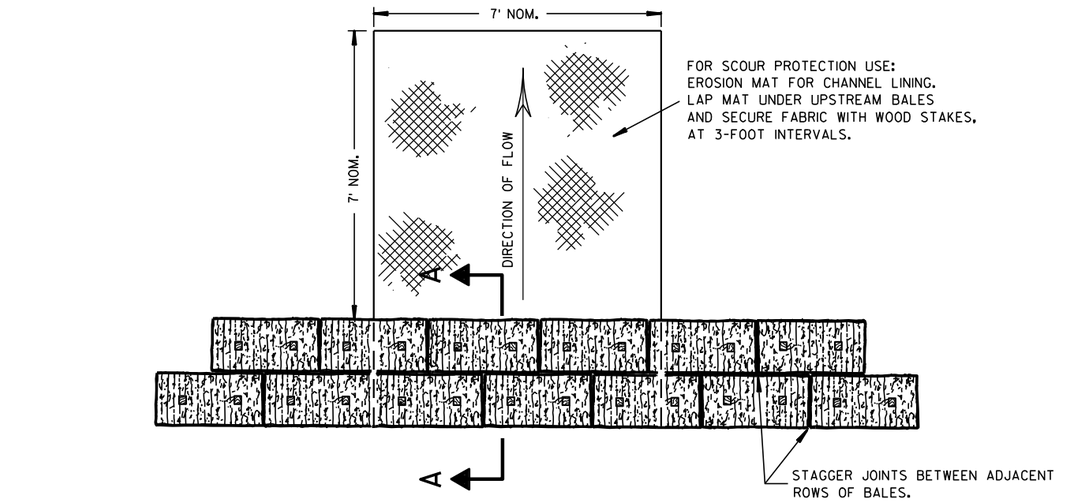
S.D.D. 8 D 4-5

6

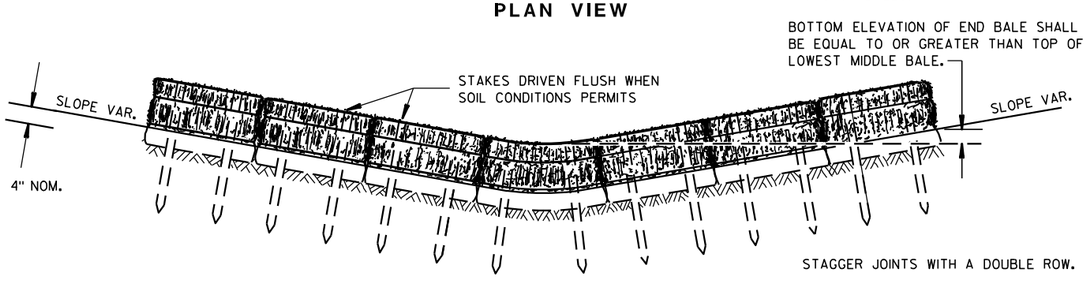
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



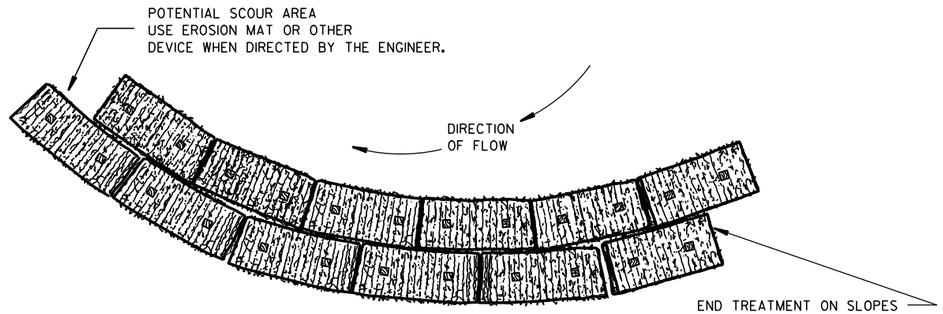
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

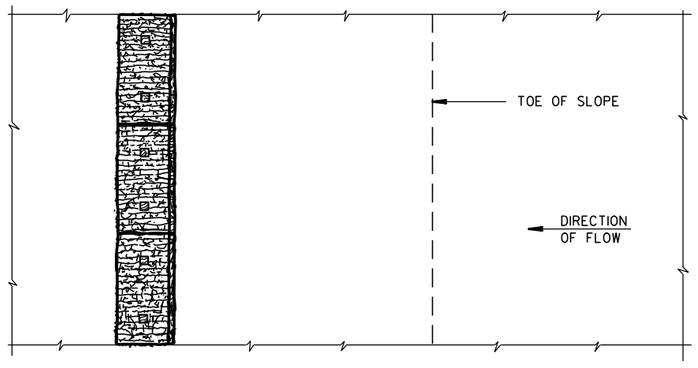
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

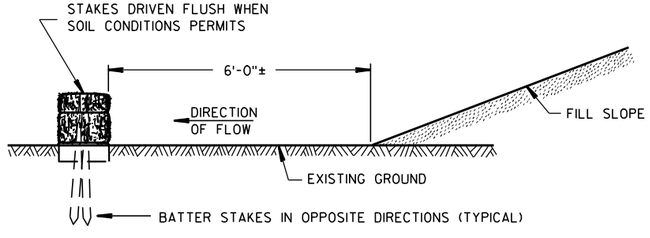


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

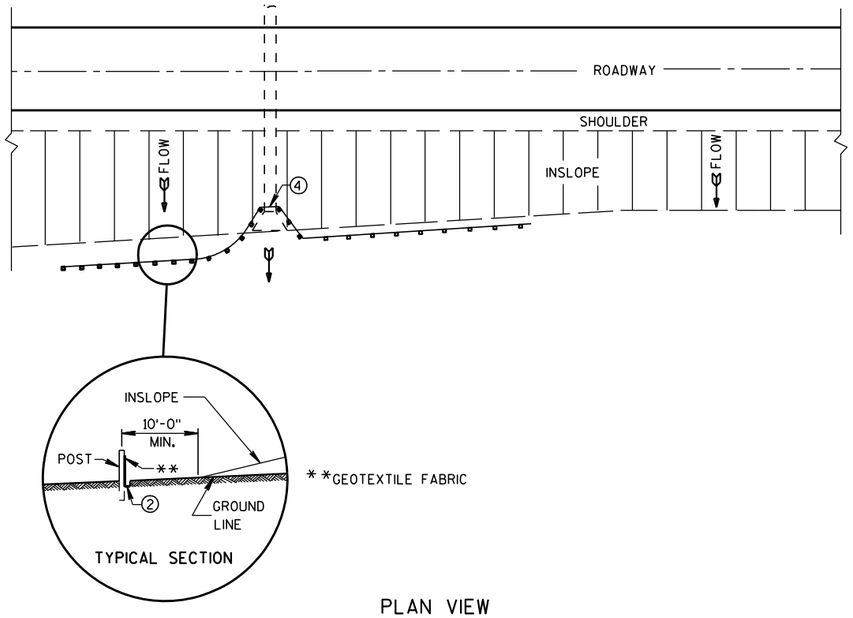
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

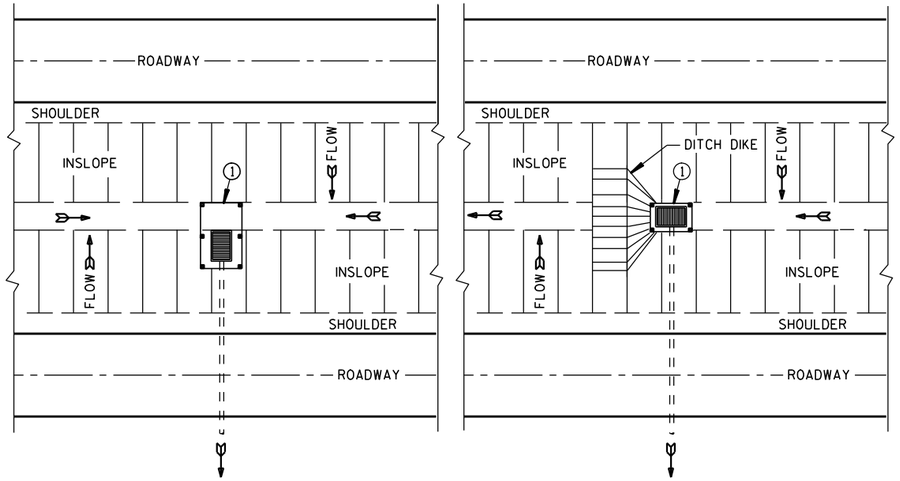
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



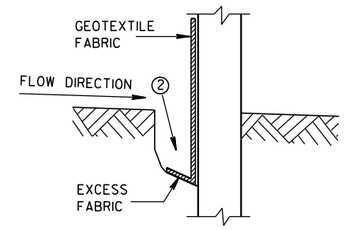
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

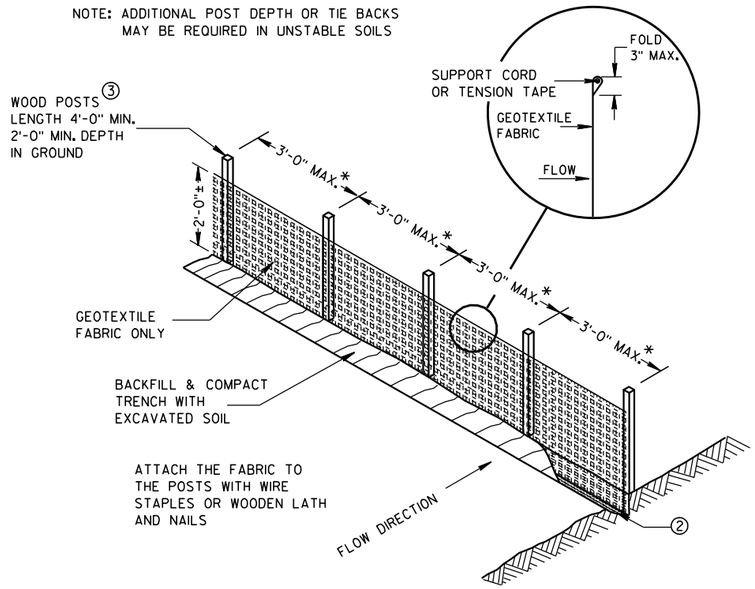
GENERAL NOTES

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

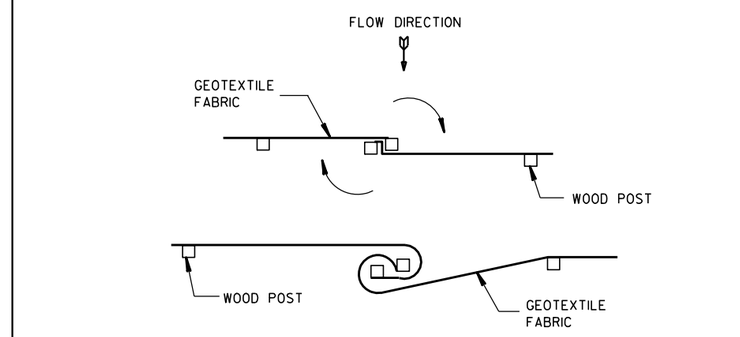
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



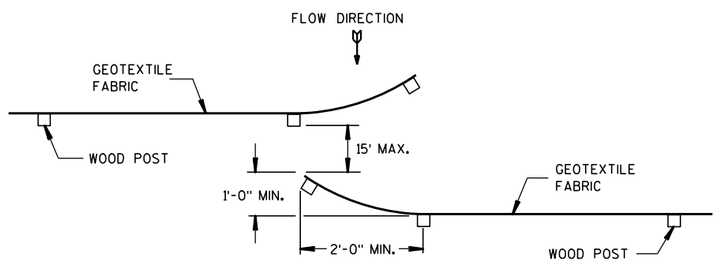
TRENCH DETAIL



SILT FENCE

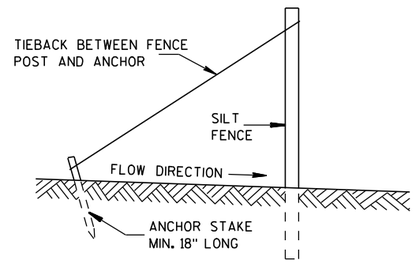


TWIST METHOD



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

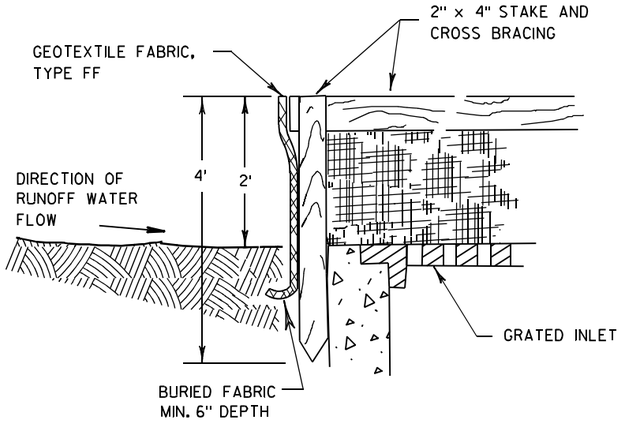
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

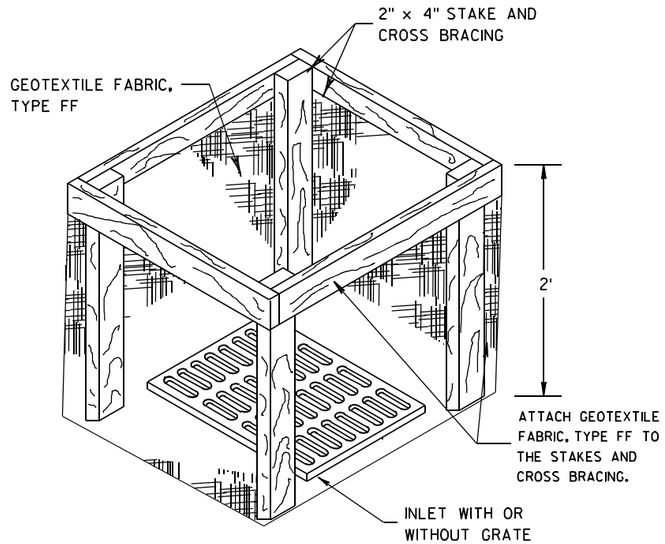
6

S.D.D. 8 E 9-6

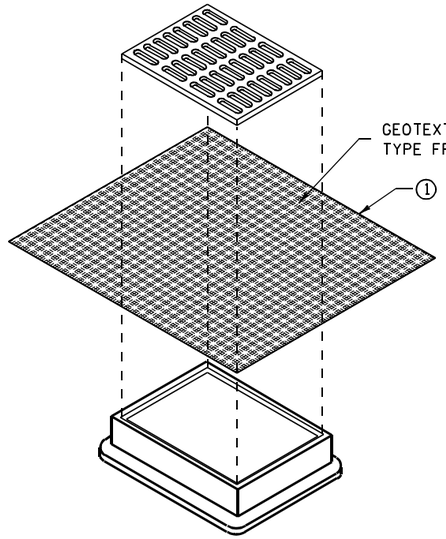
6

S.D.D. 8 E 9-6



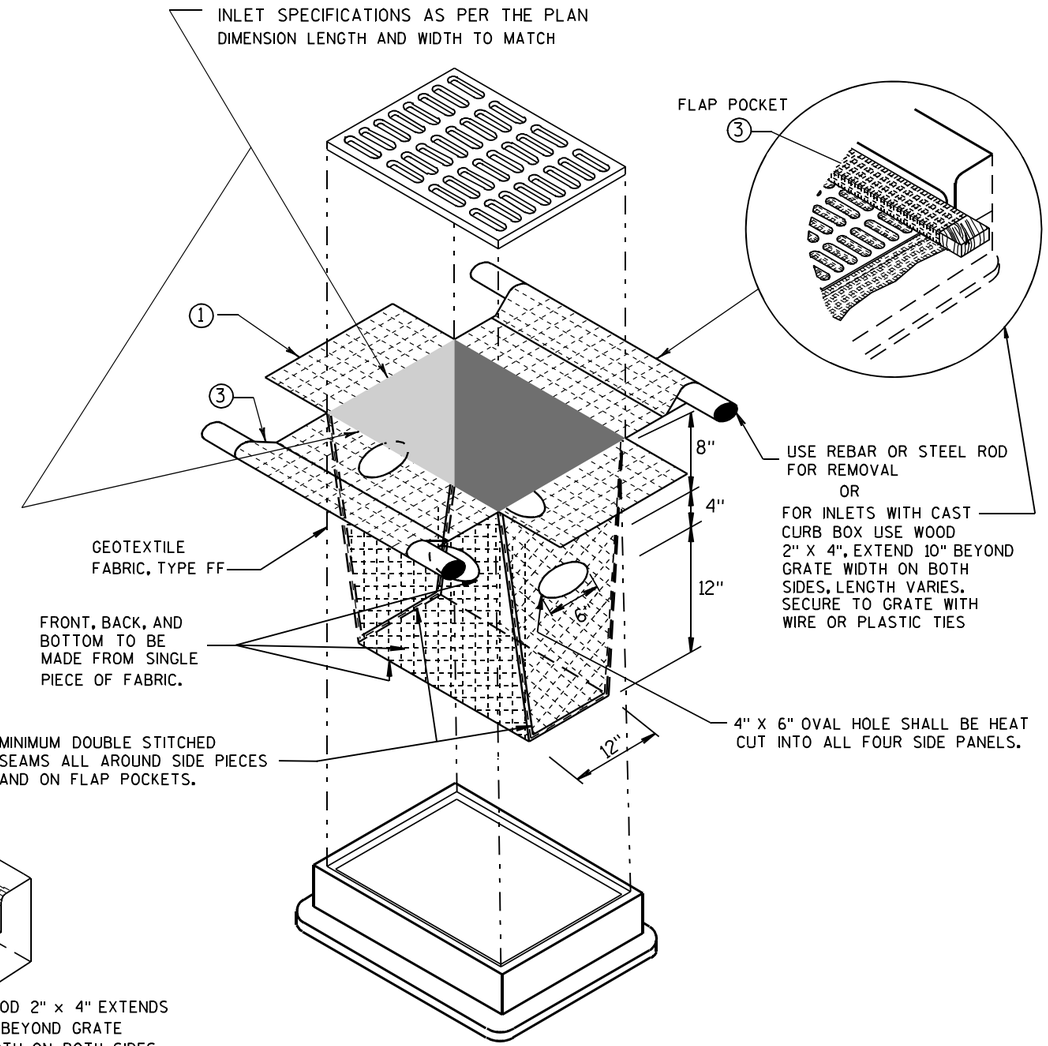


INLET PROTECTION, TYPE A



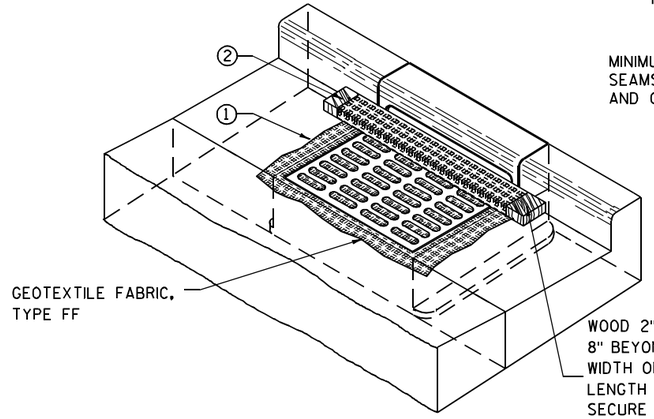
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2

METAL APRON ENDWALLS

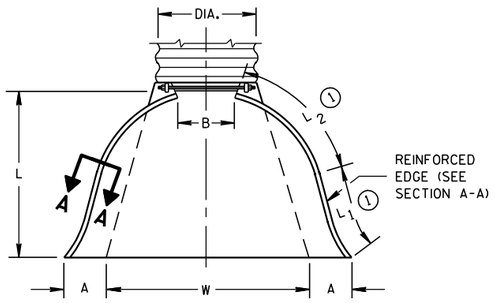
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

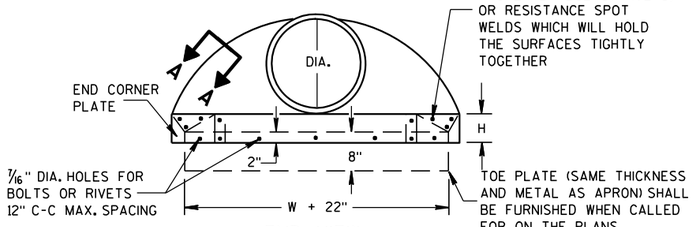
REINFORCED CONCRETE APRON ENDWALLS

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

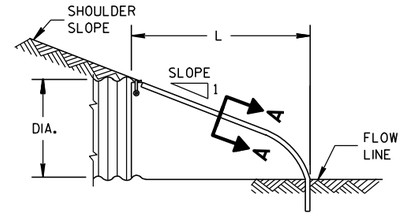
*MINIMUM
**MAXIMUM



PLAN VIEW

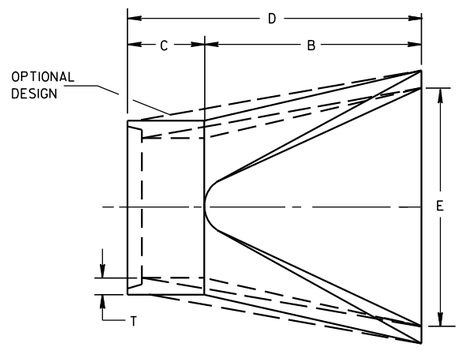


END VIEW

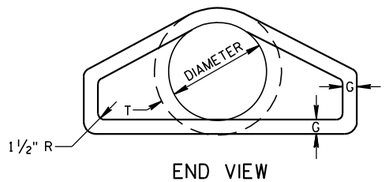


SIDE ELEVATION

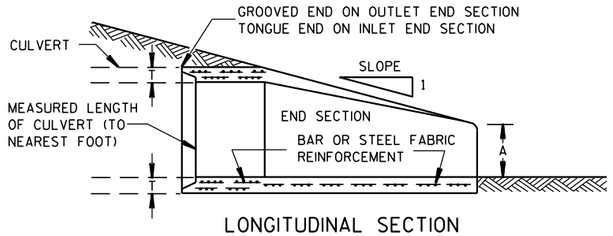
METAL ENDWALLS



PLAN

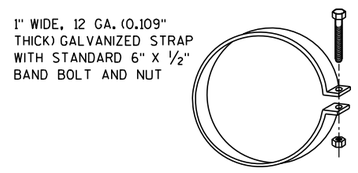


END VIEW



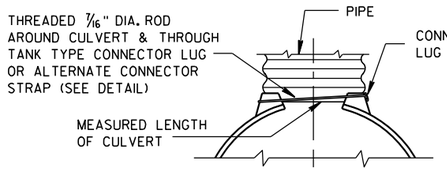
LONGITUDINAL SECTION

CONCRETE ENDWALLS

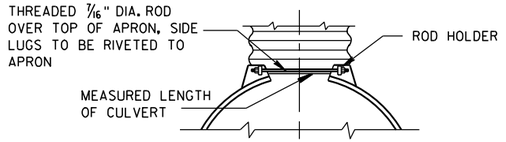


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

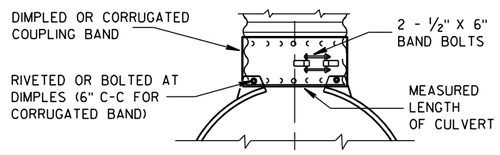


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

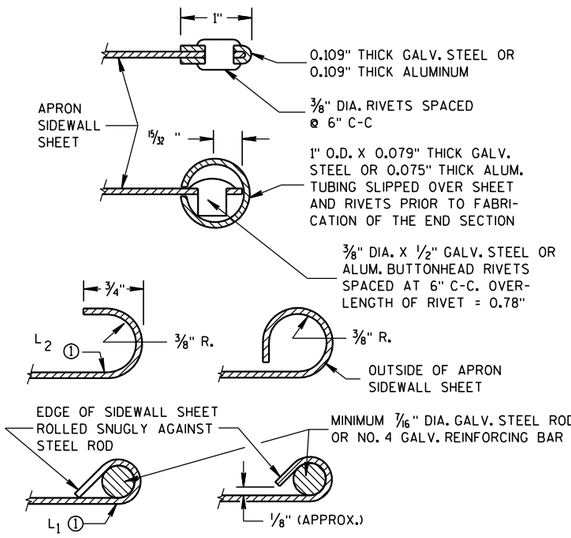
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

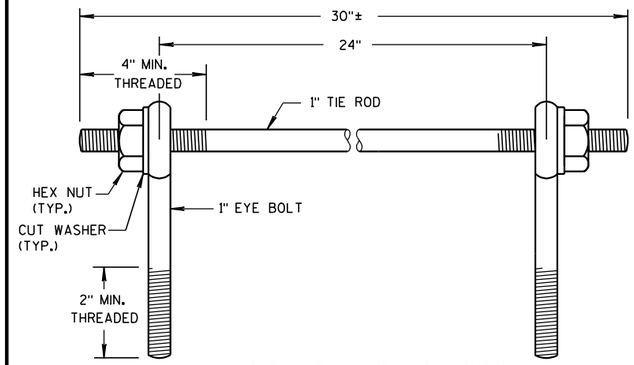
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

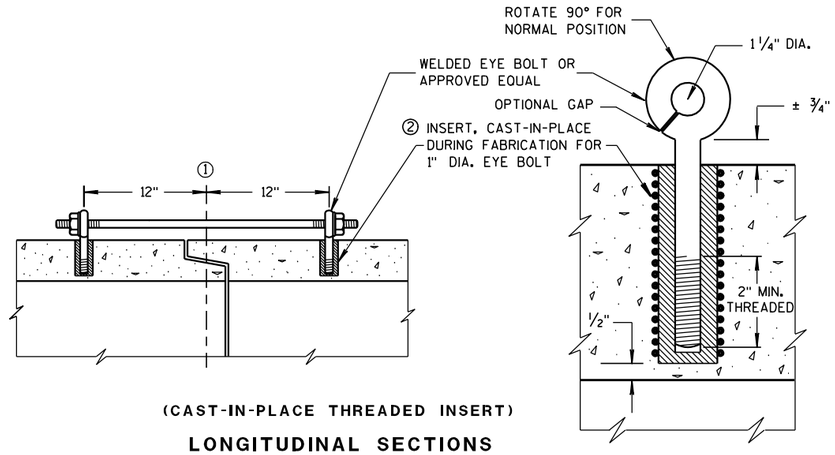
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

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

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

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

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

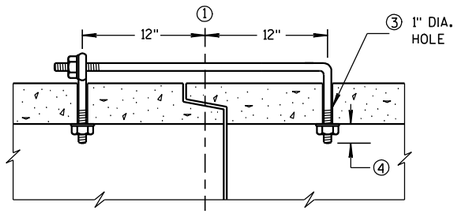
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

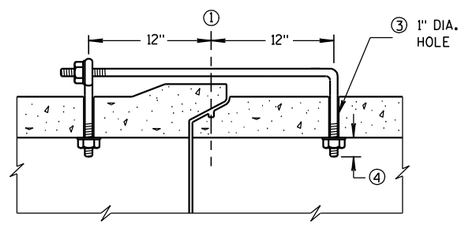
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

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



(TONGUE & GROOVE PIPE)

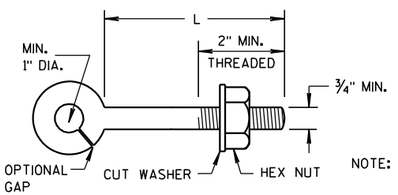


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

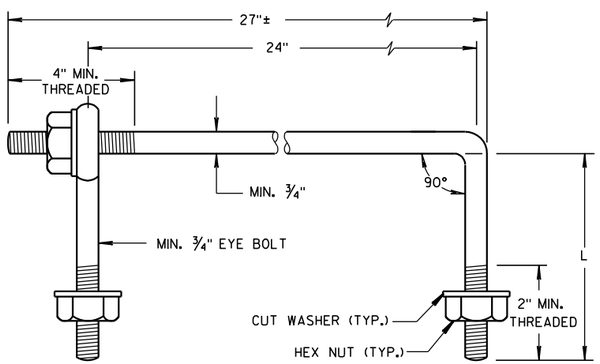
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

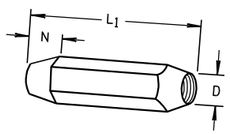
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

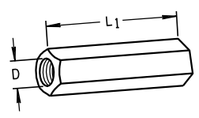
ADJUSTABLE TIE ROD TABLE

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

DIMENSIONS SHOWN ARE IN INCHES



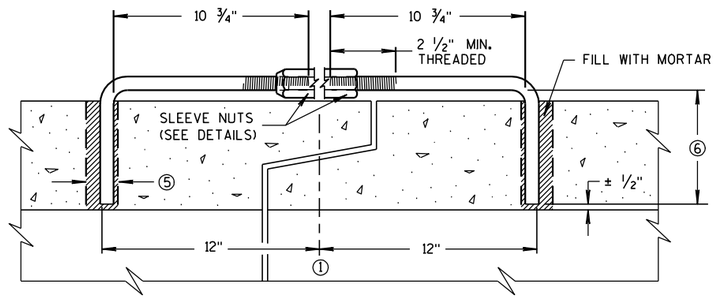
TAPERED



PLAIN

RIGHT AND LEFT THREADS

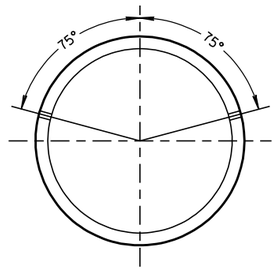
SLEEVE NUTS



LONGITUDINAL SECTION

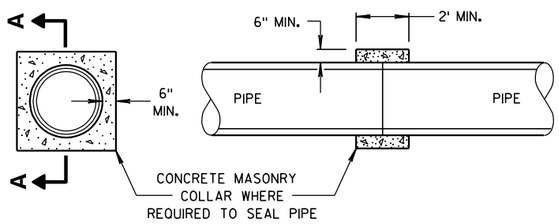
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

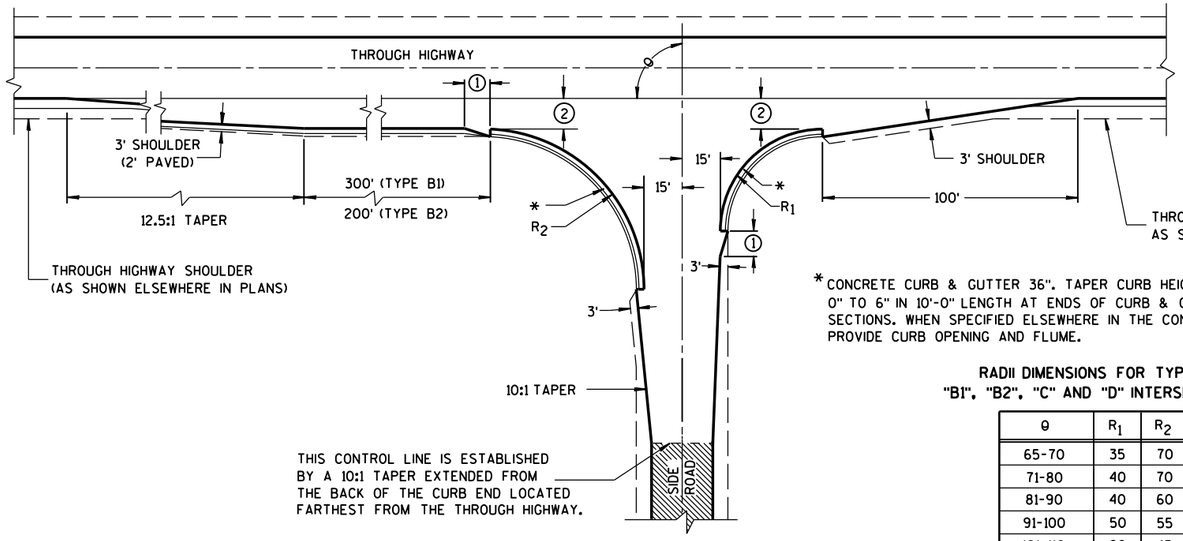
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
175
FHWA

6

S.D.D. 8 F 4-7

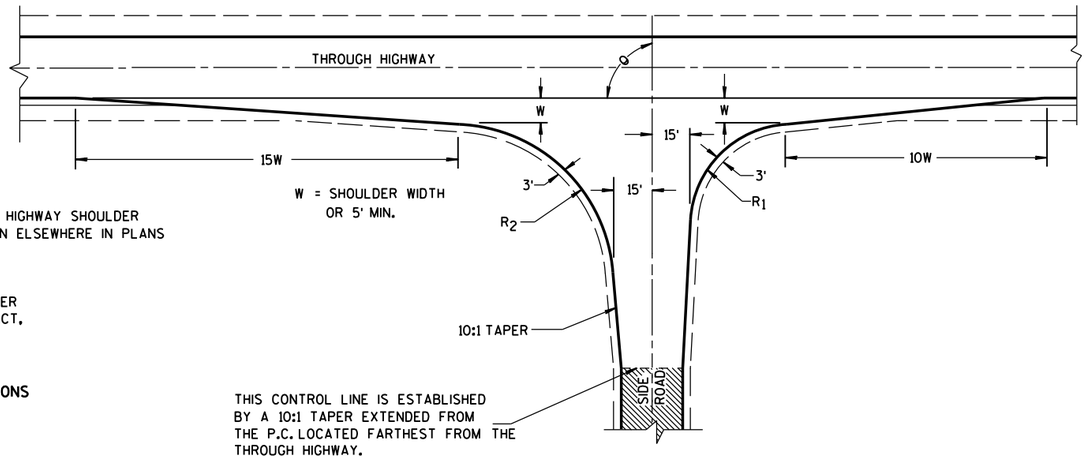


TYPE "B1" AND "B2"

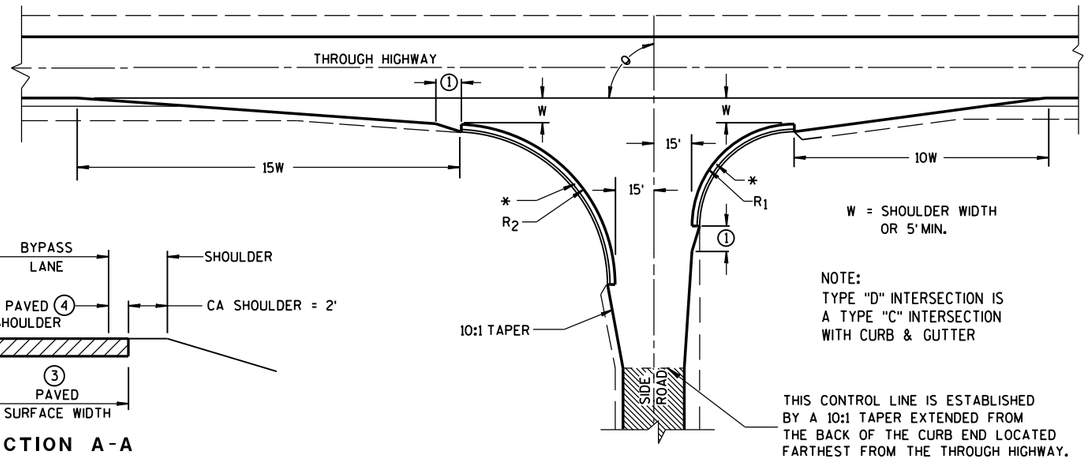
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

EXISTING PAVED SURFACE

BYPASS LANE

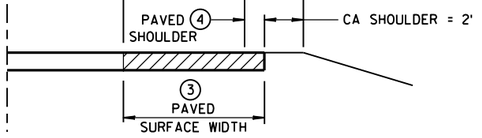
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

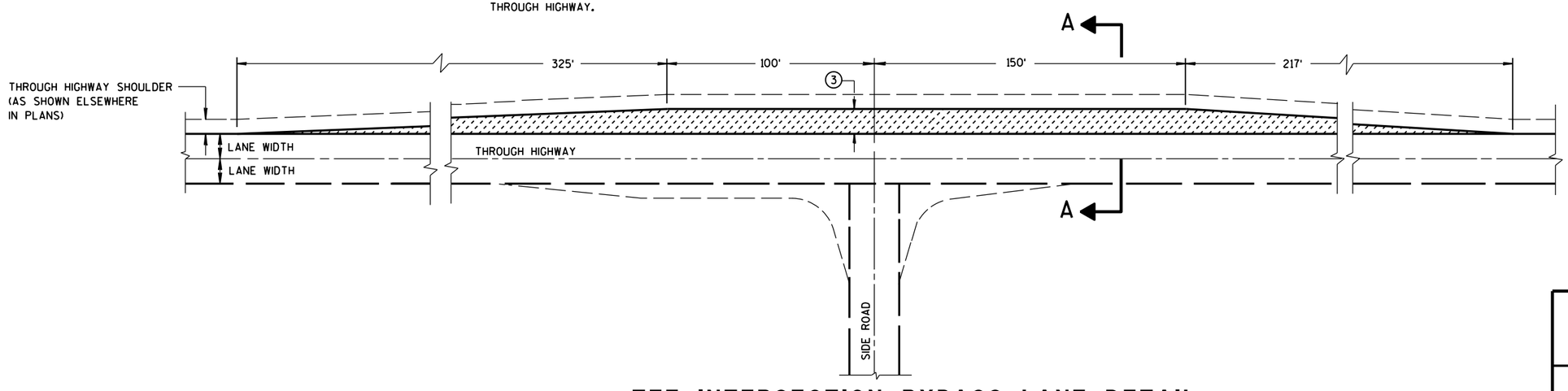
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



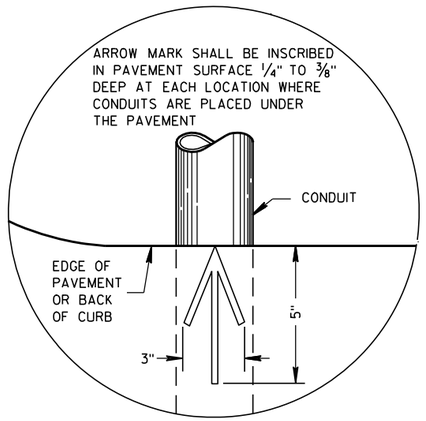
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

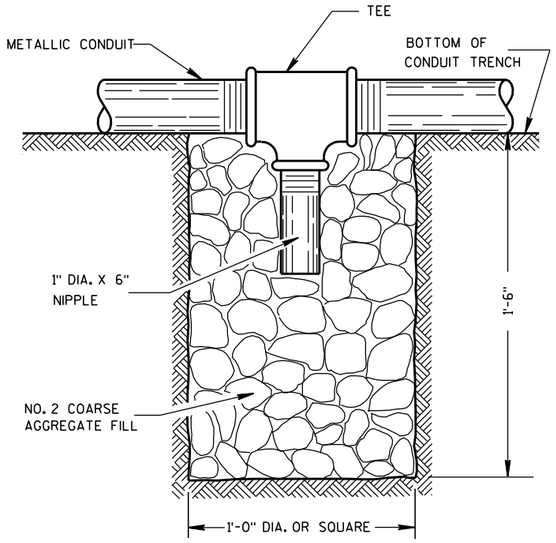
6

S.D.D. 9 A 1-13a



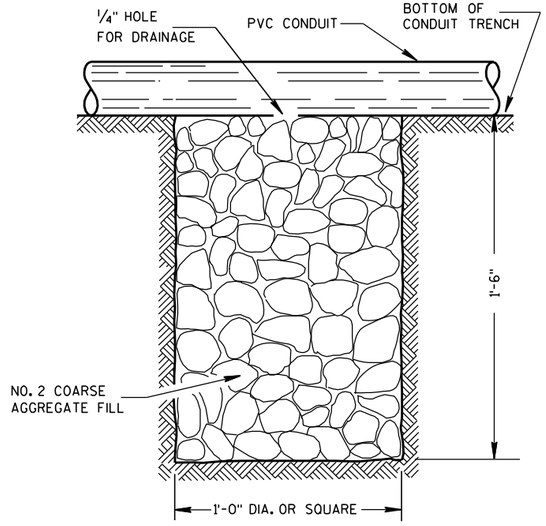
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

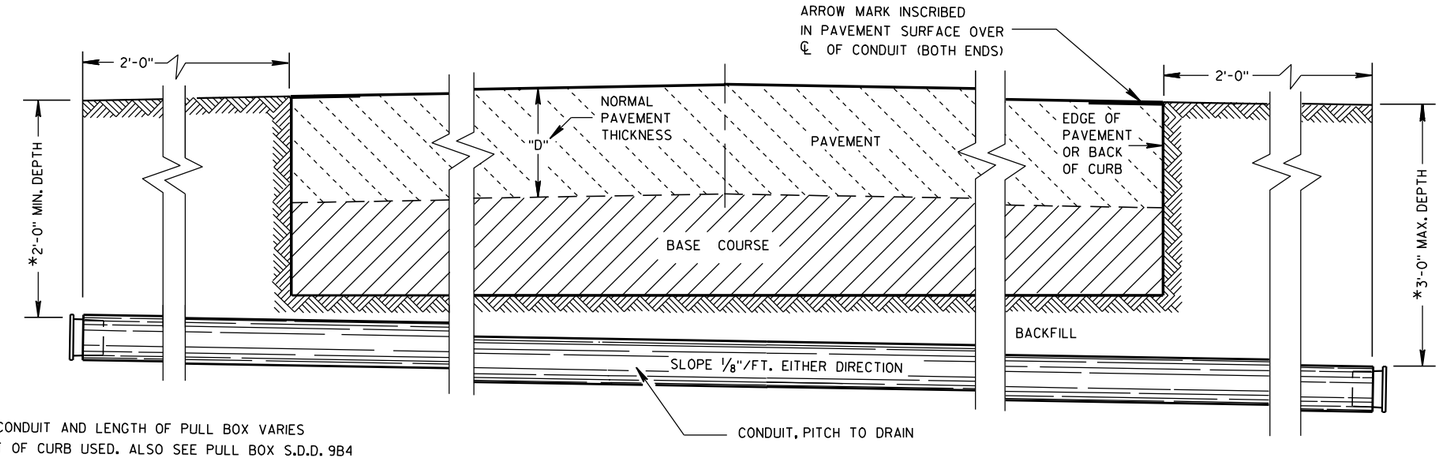
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/23/03 DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 177 HWYS

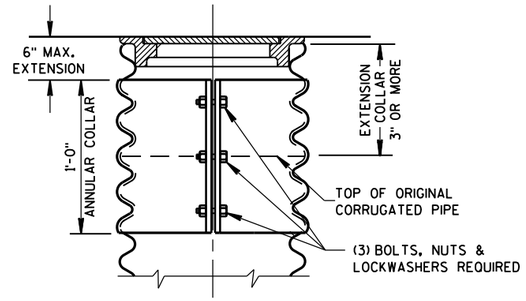
FHWA

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

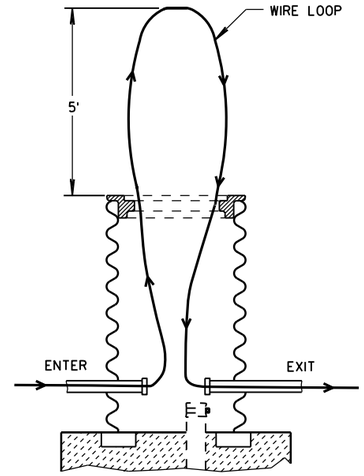
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

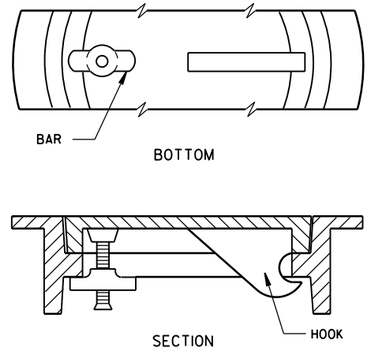
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

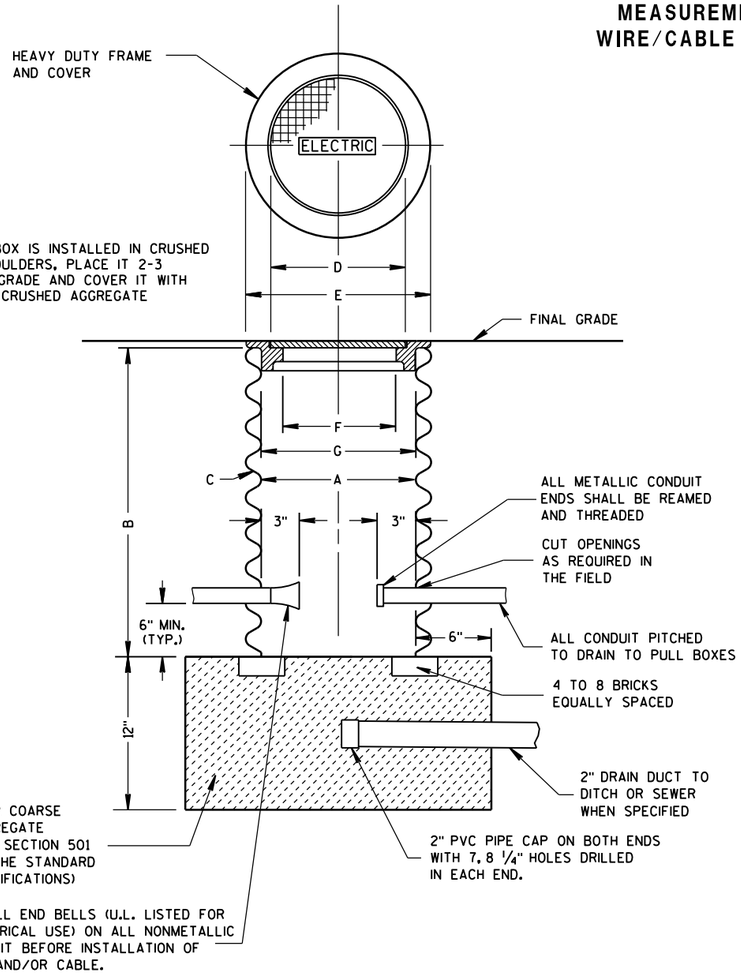


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



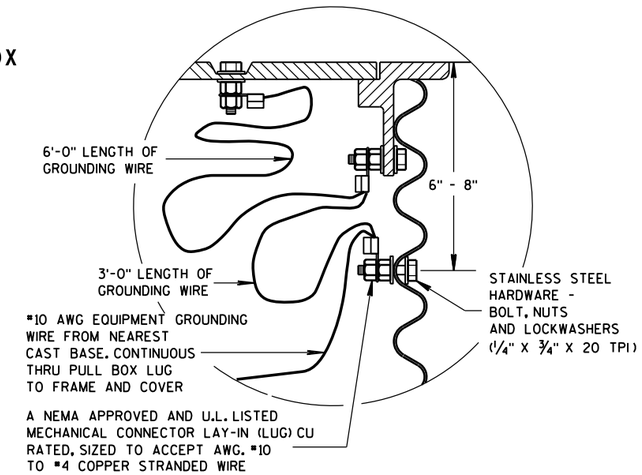
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

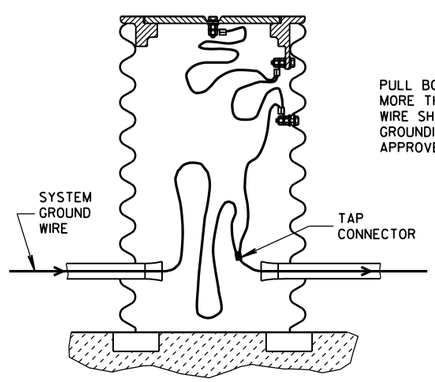


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

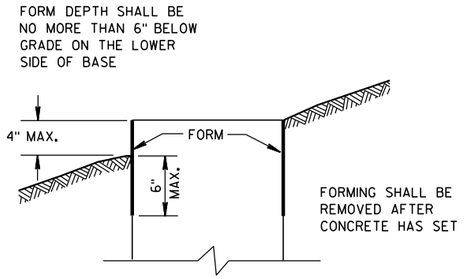
S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

PULL BOX	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
2-7-2013 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL
FHWA	

6

S.D.D. 9 B 4-10



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) I" DIA. X 3'-6" ANCHOR RODS.

(3) (4) I" DIA. X 5'-0" ANCHOR RODS.

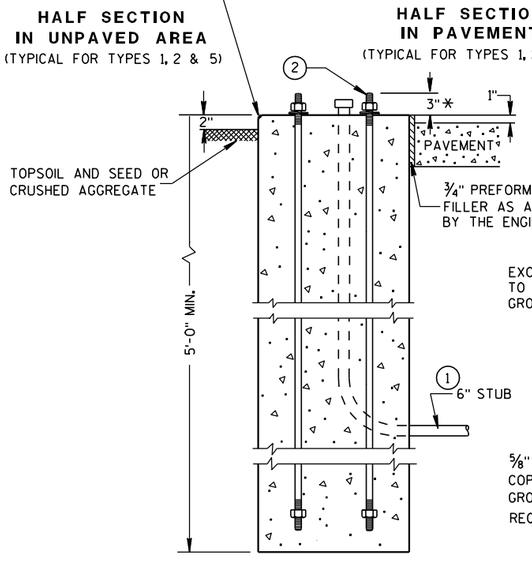
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

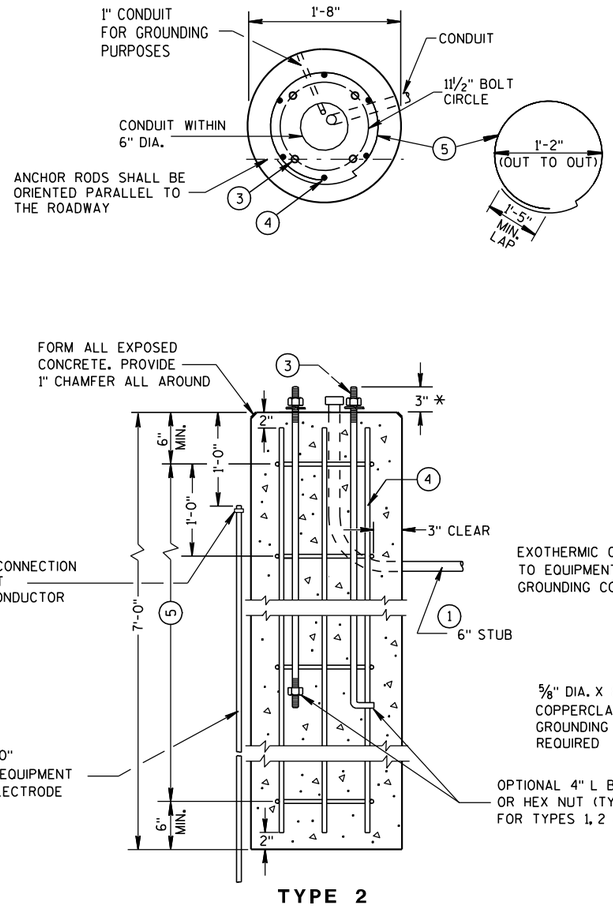
(6) (4) I" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

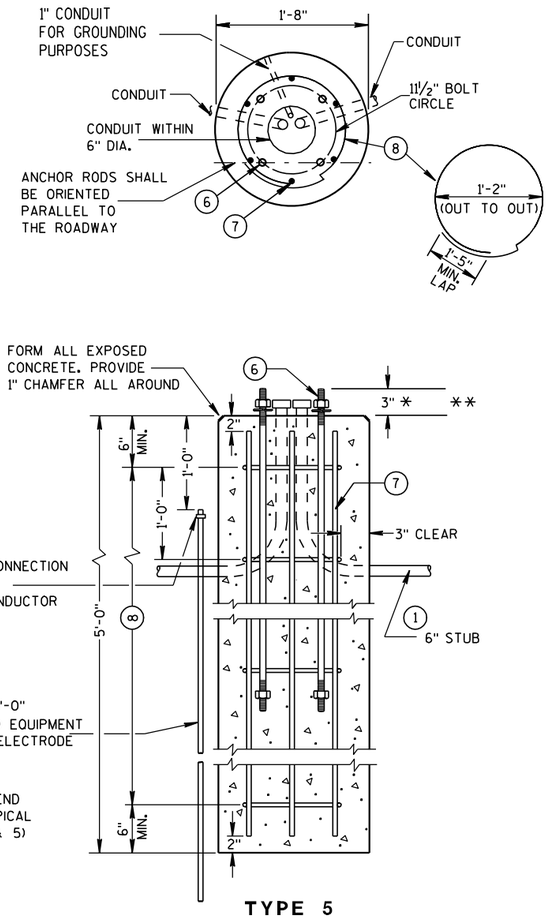
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



TYPE 1



TYPE 2



TYPE 5

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/3/10 — DATE

/S/ Joanna L. Rush — STATE ELECTRICAL ENGI

179

HWYS

FHWA

6

S.D.D. 9 C 2-6

6

S.D.D. 9 C 2-6

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (92,000 YIELD) HEAVY HEX NUT AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

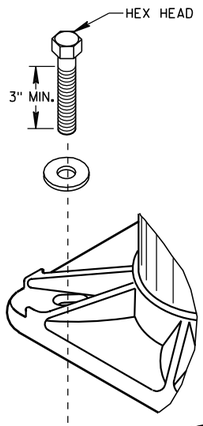
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

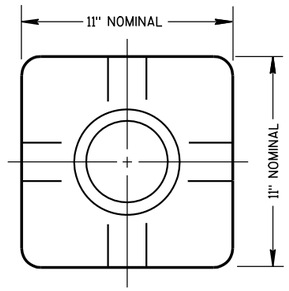
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

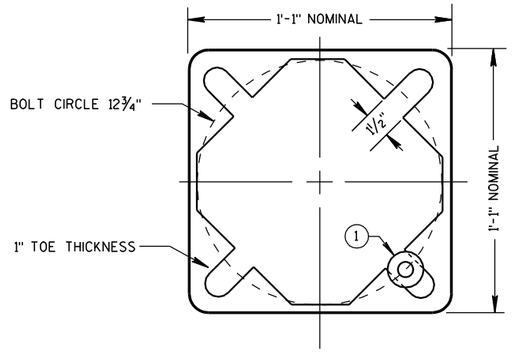
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1½", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

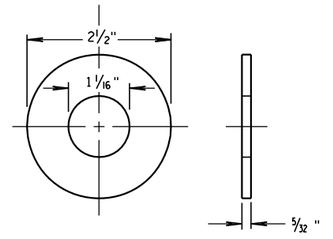




TOP VIEW
(PEDESTAL BASE)

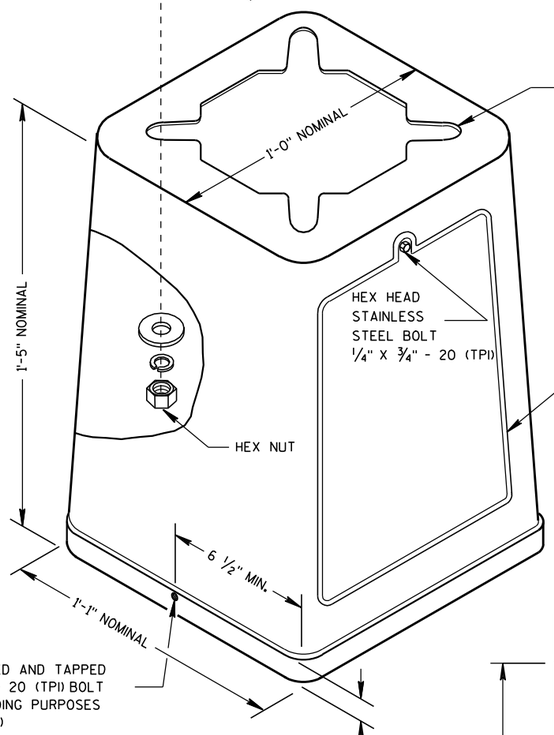


BOTTOM VIEW
(PEDESTAL BASE)

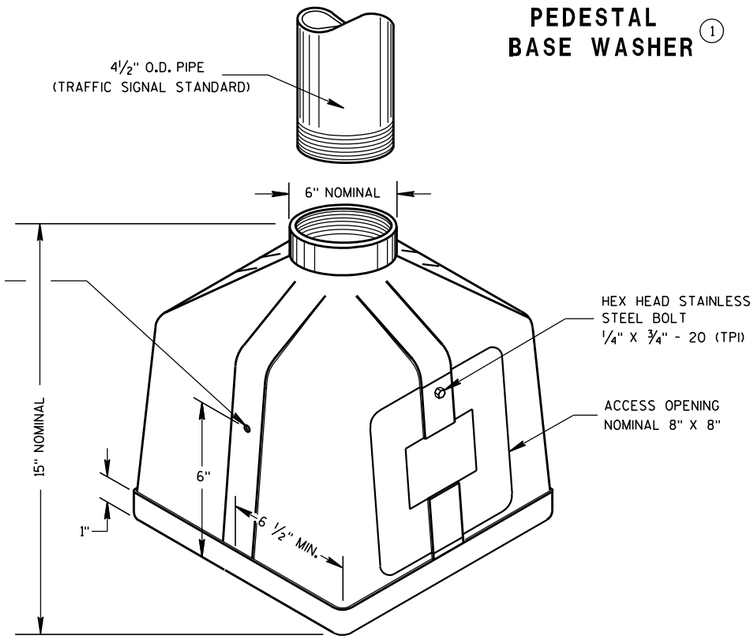


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

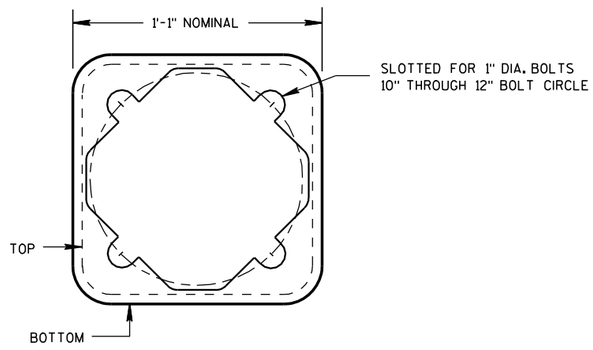


ISOMETRIC VIEW

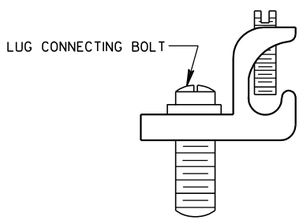


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

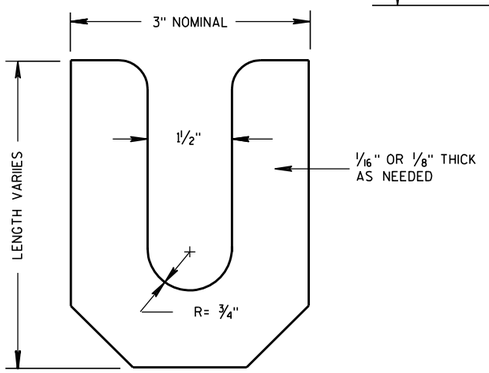


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

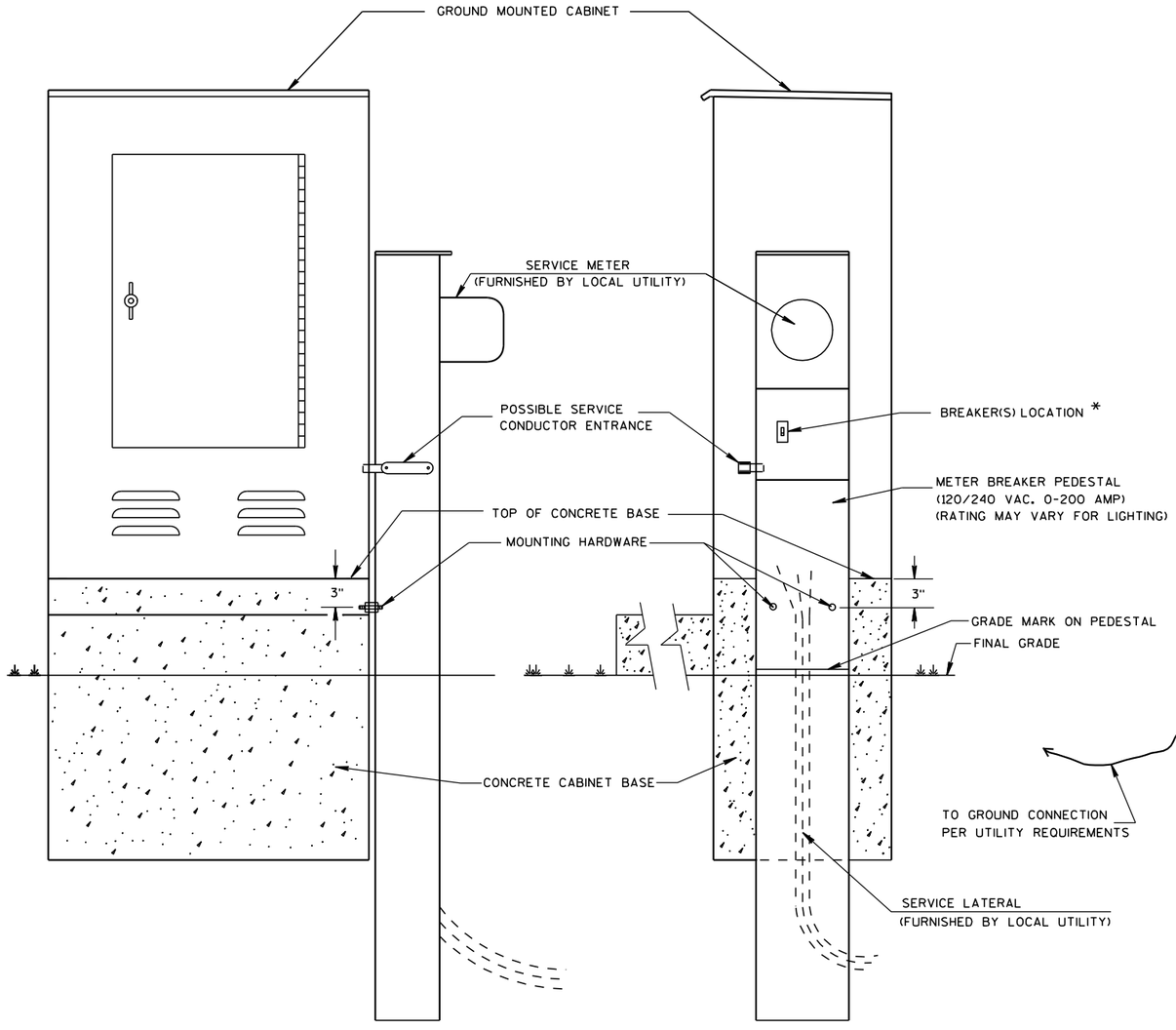
APPROVED
10/27/09 — DATE
/S/ Joanna L. Rich — STATE ELECTRICAL ENGI
180 — HWYS
FHWA

6

S.D.D. 9 C 3-3

6

S.D.D. 9 C 3-3



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

6

S.D.D. 9 D 1-4

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

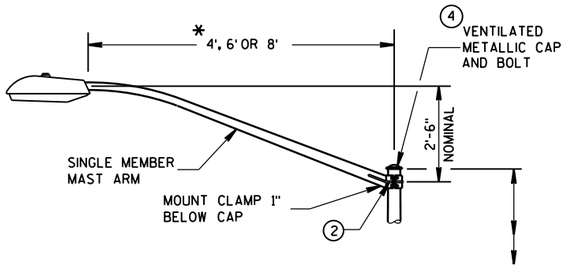
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

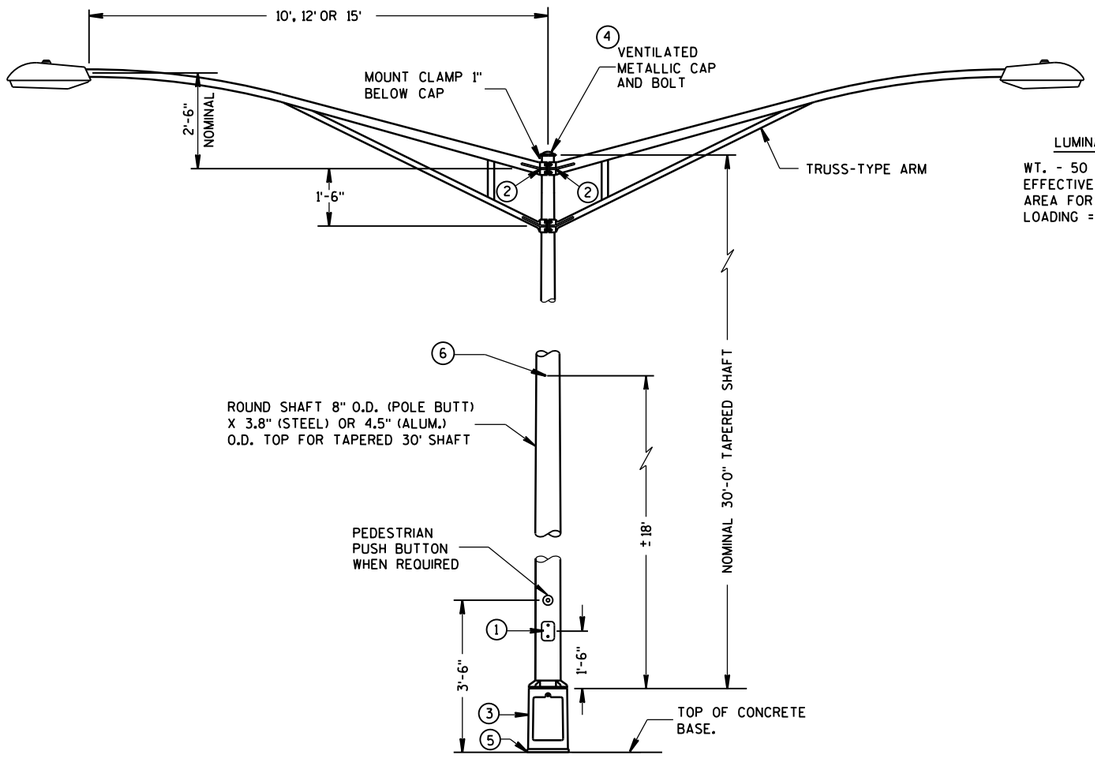
APPROVED
10/27/09 DATE
/S/ Joanna L. Bush STATE ELECTRICAL ENGI
FHWA
HWYS

6

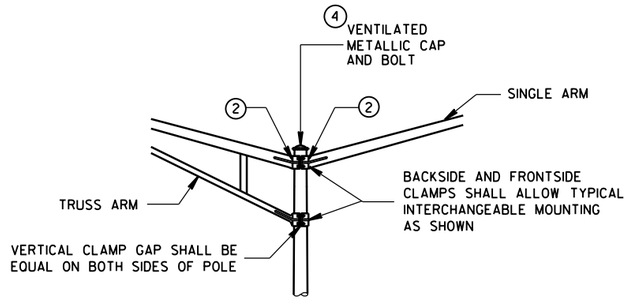
S.D.D. 9 D 1-4

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

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

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

6

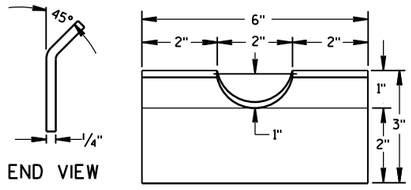
S.D.D. 9 E 1-12d

POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

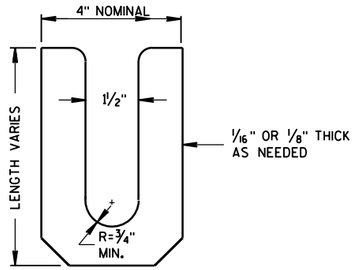
S.D.D. 9 E 1-12d



FRONT VIEW

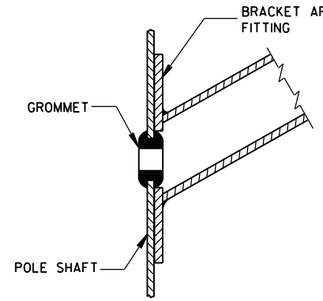
RECTANGULAR CLAMP SHIM

(4 TO A SET)

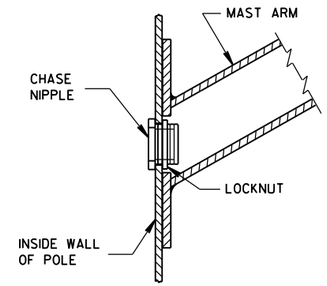


LEVELING SHIM (15)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) OUTSIDE SHIM DIAMETER - (4.5" O.D. FOR LUMINAIRE MAST ARM)
(6.625" O.D. FOR TROMBONE MAST ARM)

(14) VARIABLE SHIM THICKNESS - (0.10", 0.25", 0.35", 0.53" OR 0.70")

SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 0.25", 0.35", 0.53" OR 0.70".

SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 0.10", 0.25" OR 0.35".

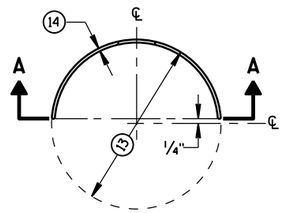
SHIM MATERIAL SHALL BE ALUMINUM ALLOY.

SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 1/4" HIGH AND LEGIBLE.

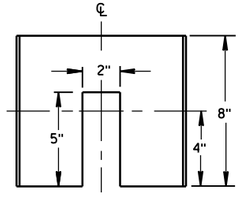
THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

(15) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



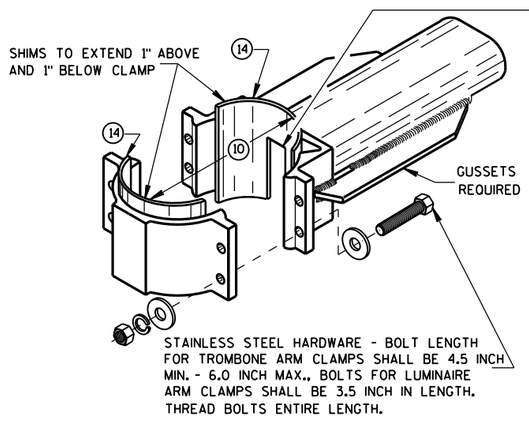
PLAN VIEW



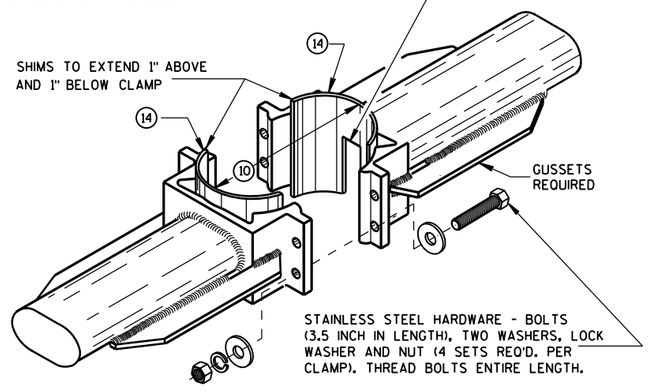
SECTION A-A

CIRCULAR CLAMP SHIM

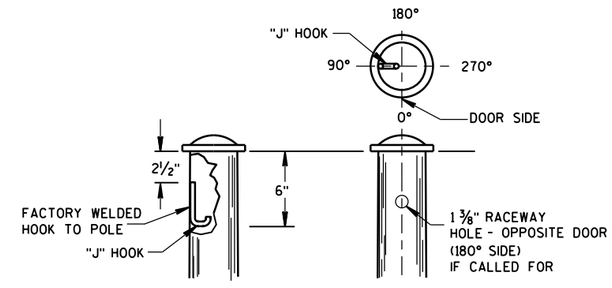
(2 TO A SET)



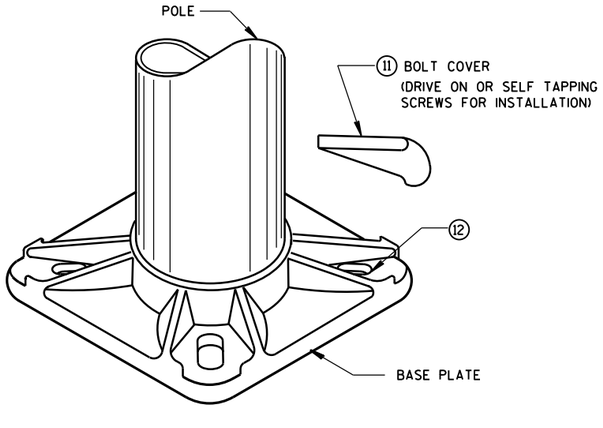
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



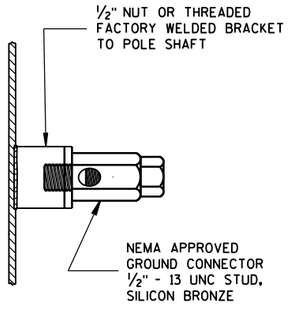
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

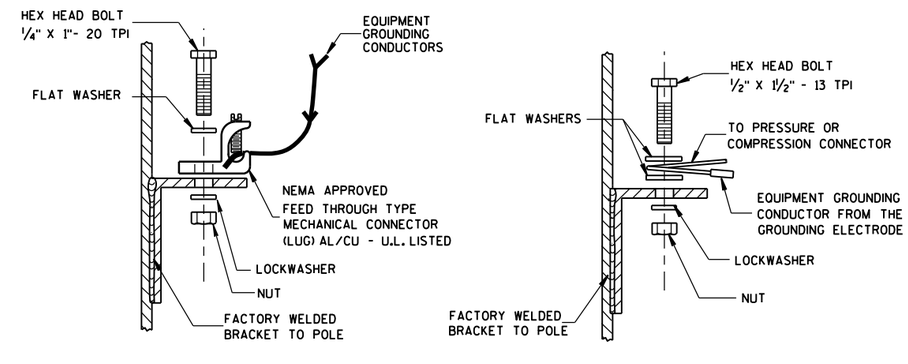


TYPICAL "J" HOOK LOCATION



BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

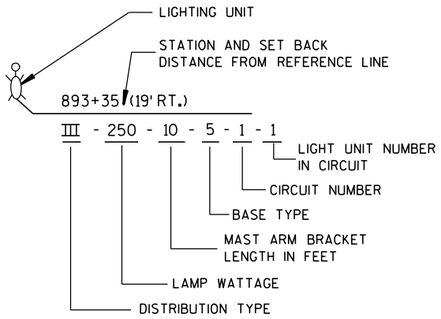
HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

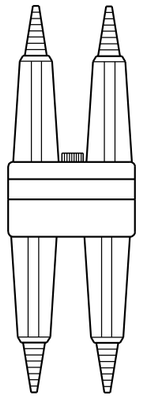
APPROVED
2/7/2013 DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6

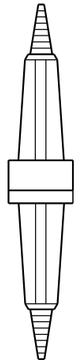
S.D.D. 9 E 1-12g



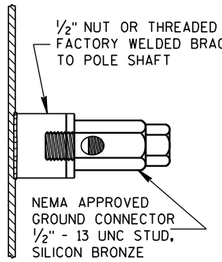
LIGHTING UNIT CODE
(TYPICAL)

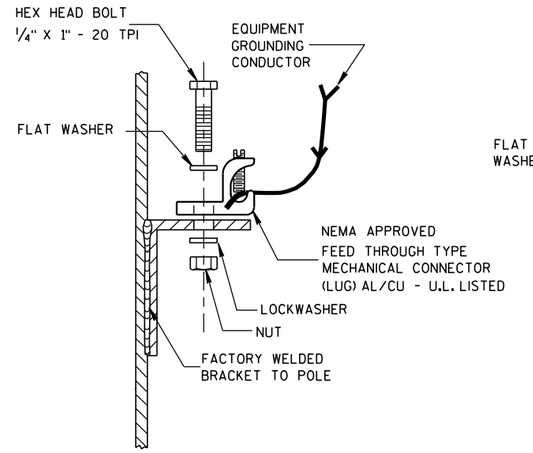


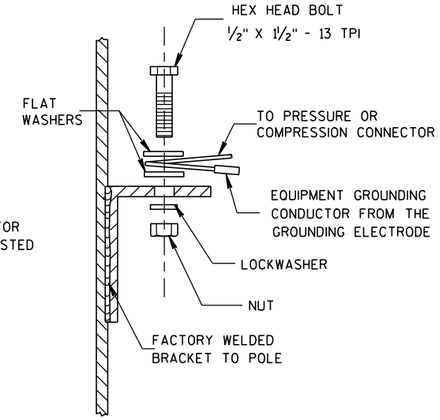
DETAIL "A"
BREAKAWAY
DOUBLE POLE WITH
WATERPROOF
INSULATING BOOT



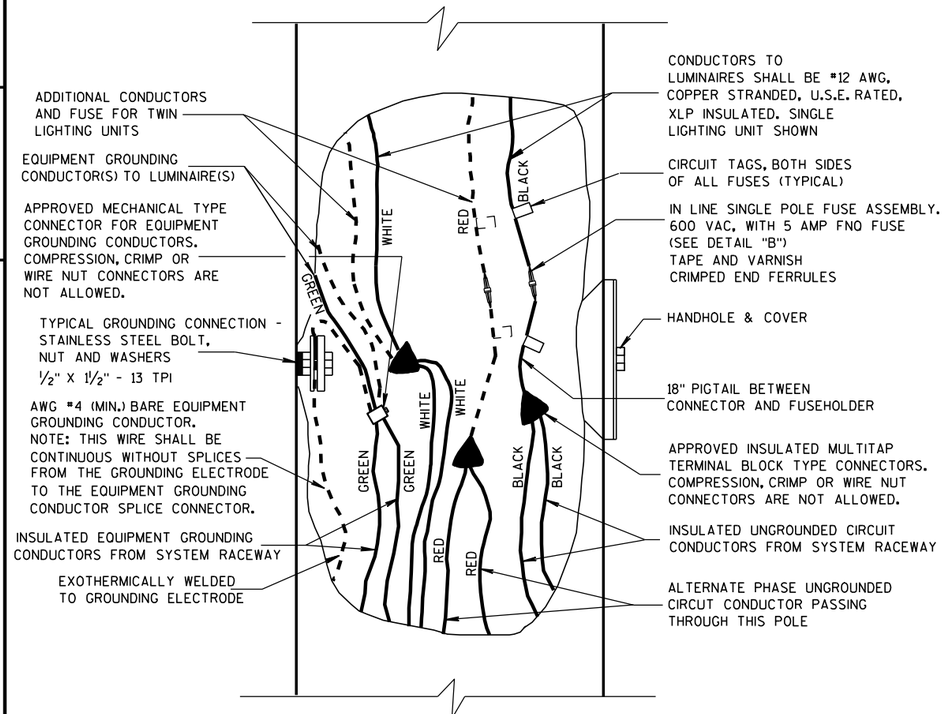
DETAIL "B"
BREAKAWAY
SINGLE POLE WITH
WATERPROOF
INSULATING BOOT



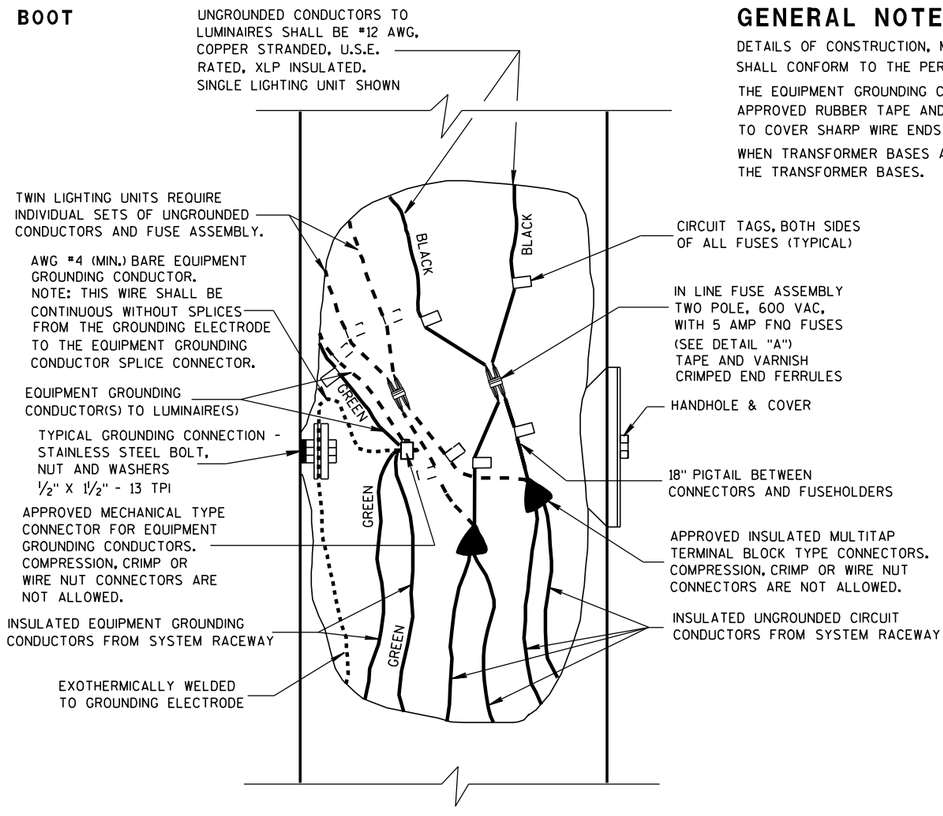




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

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

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

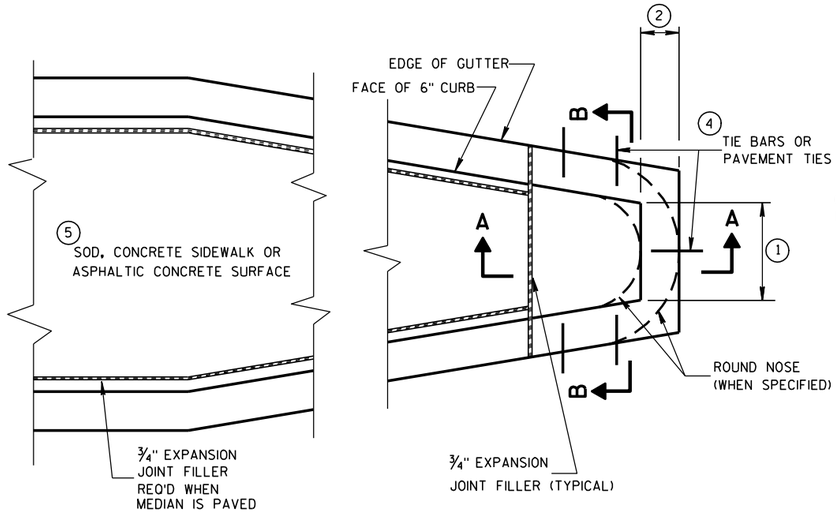
3/2/2011 — DATE

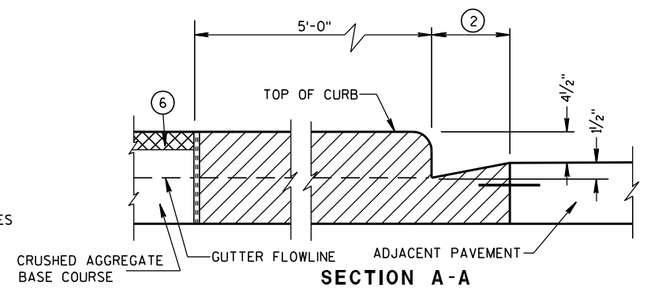
/S/ Thomas J. Gosnine — STATE ELECTRICAL ENGI

HWYS

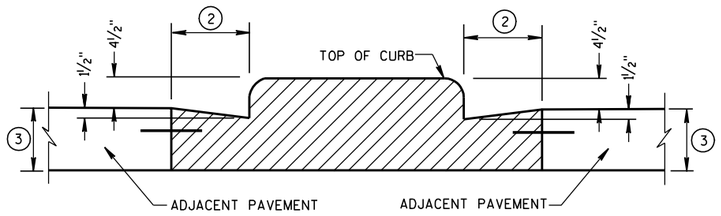
FHWA

6
S.D.D. 9 E 3-4





SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

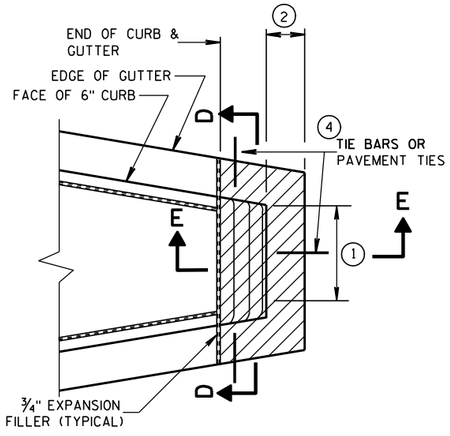
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

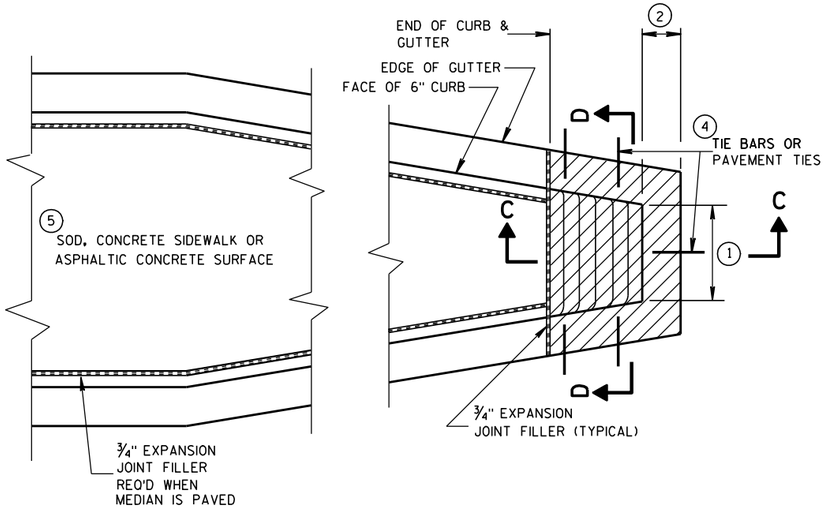
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

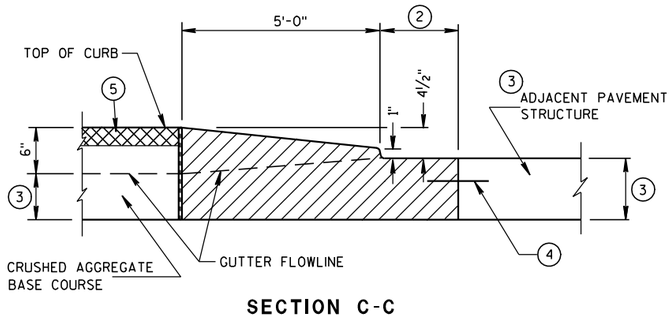
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

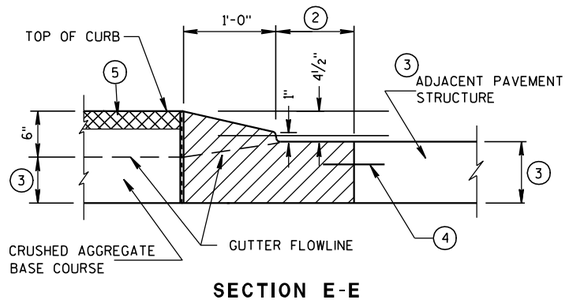
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.







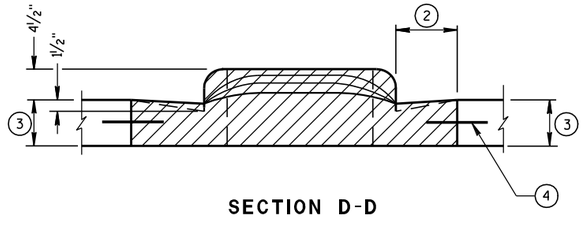
SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 1

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

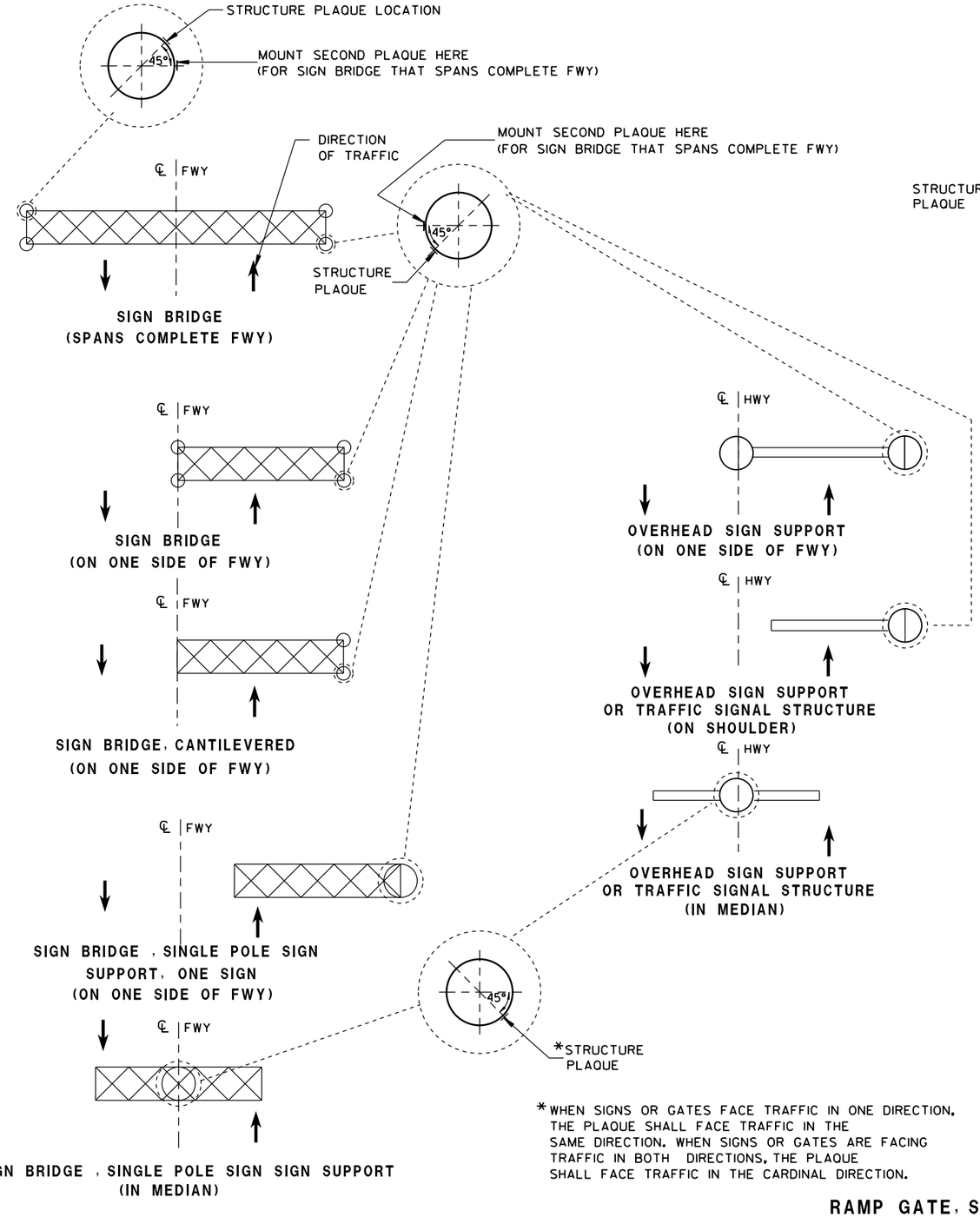
CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE FHWA	/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER 185 NT

6

S.D.D. 11 B 2-2

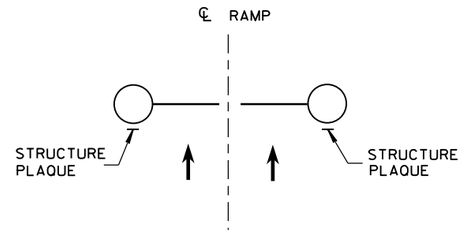
6

S.D.D. 11 B 2-2

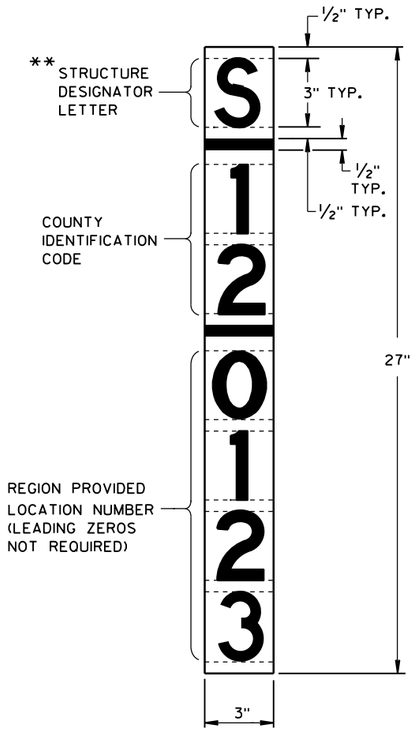


LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

* WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.



RAMP GATE
(ACROSS FWY ON-RAMP)



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

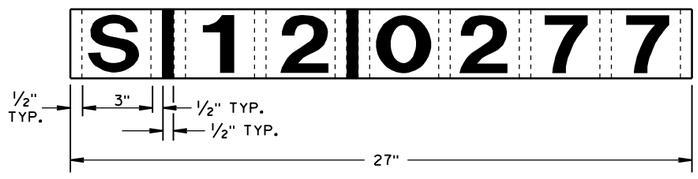
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 12 A 4-3

6

S.D.D. 12 A 4-3

GENERAL NOTES

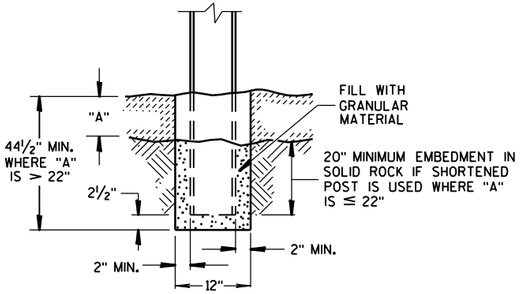
1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

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.

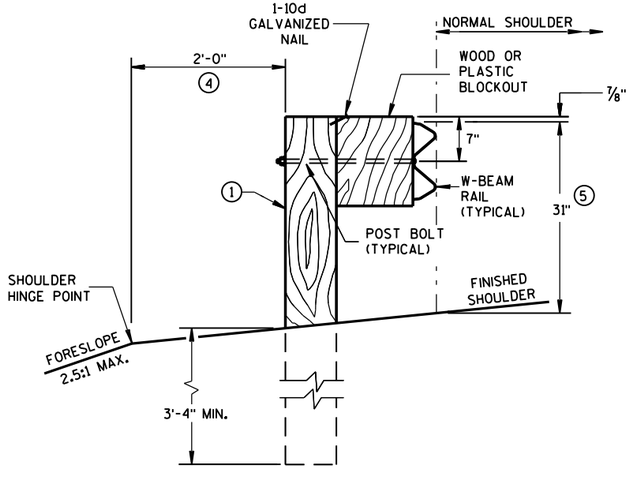
3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO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

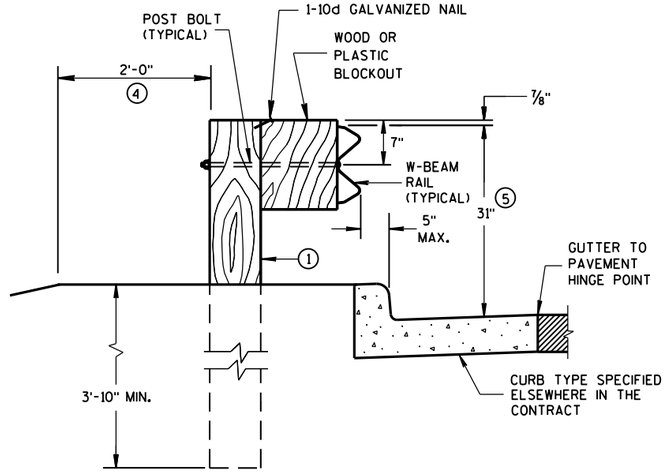
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".



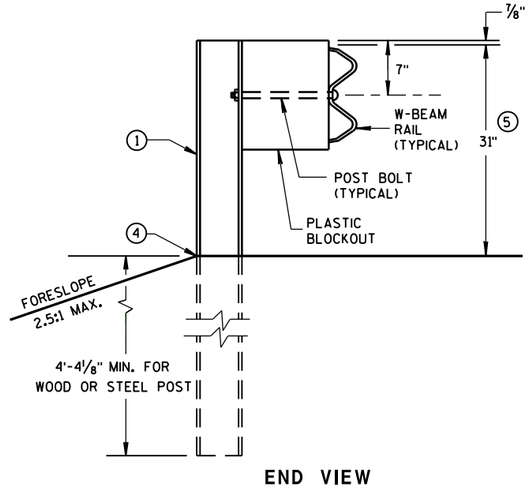
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ③



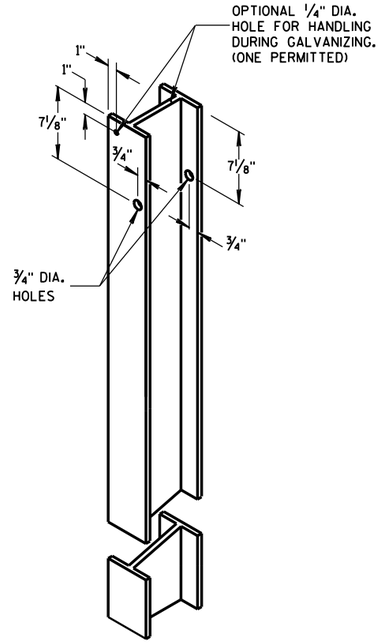
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



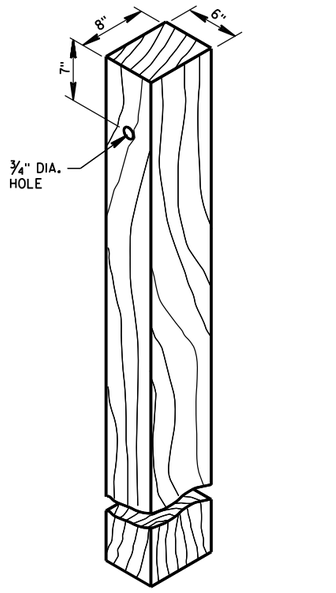
END VIEW
LOCATED ALONG A CURBED ROADWAY



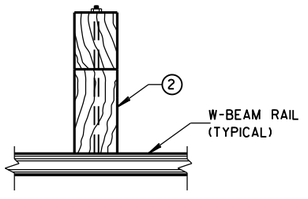
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



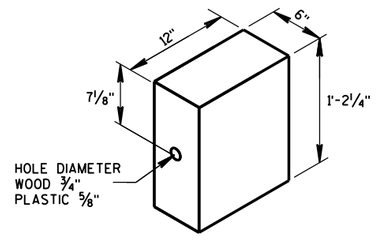
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



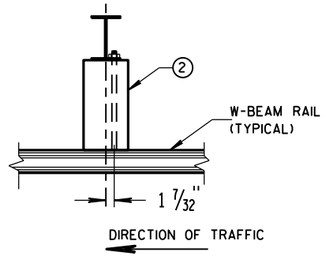
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

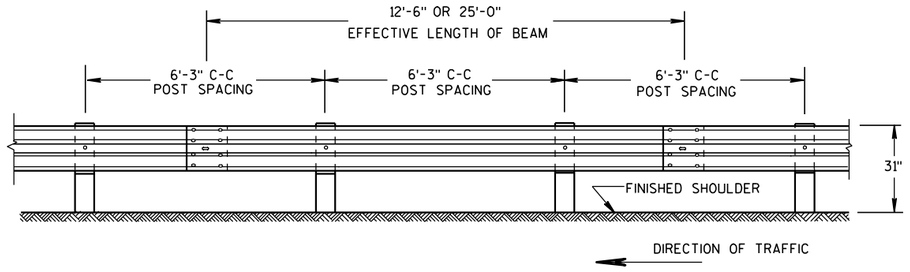


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

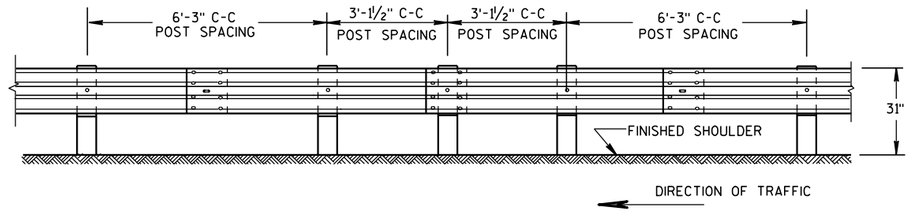
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 42-2a



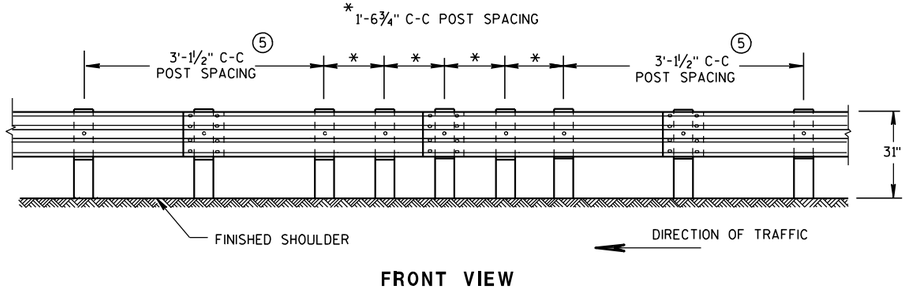
FRONT VIEW

POST SPACING STANDARD INSTALLATION



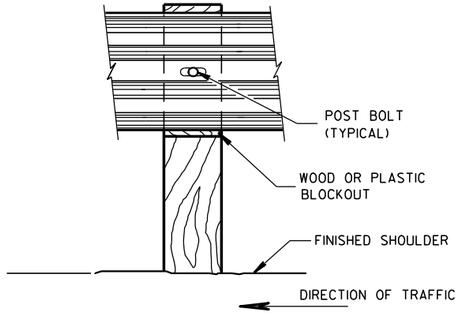
FRONT VIEW

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

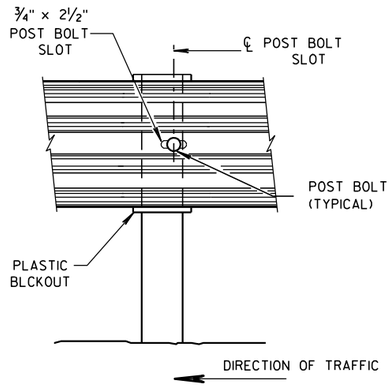


FRONT VIEW

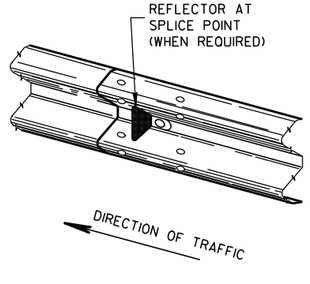
QUARTER POST SPACING (QS)

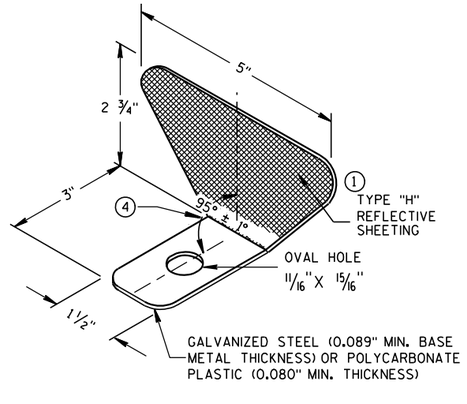


FRONT VIEW AT WOOD POST

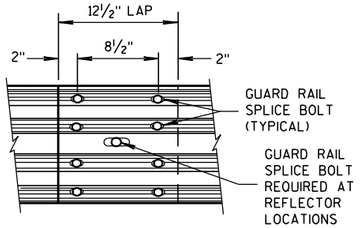


FRONT VIEW AT STEEL POST



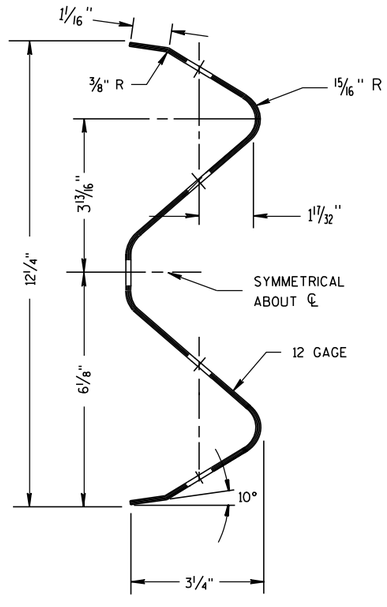


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ①



FRONT VIEW

MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL

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.

REFLECTOR SPACING ②

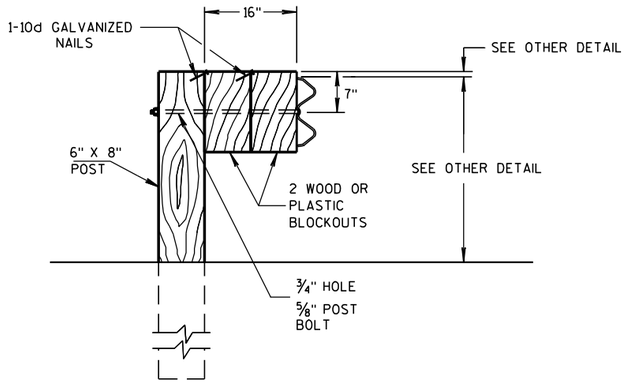
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 ③ 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 ④ 2	3

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

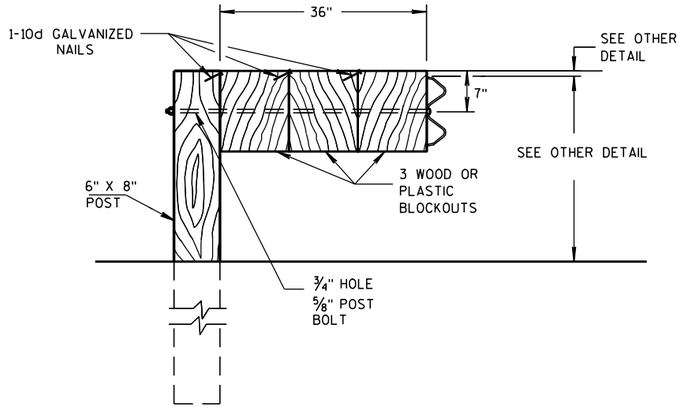
S.D.D. 14 B 42-2b

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.

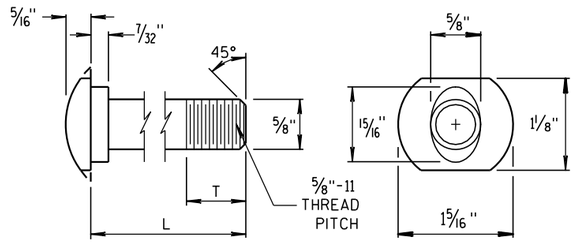


DETAIL FOR 36" BLOCKOUT DEPTH

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.

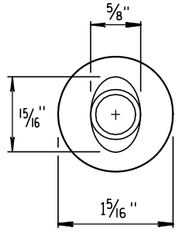
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

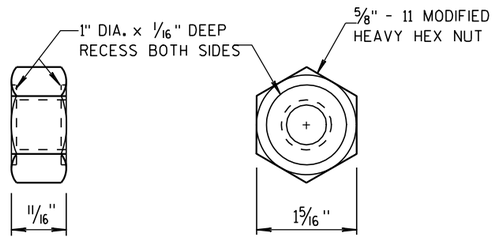


POST BOLT TABLE

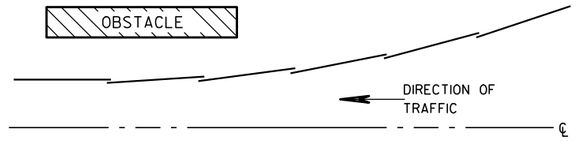
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

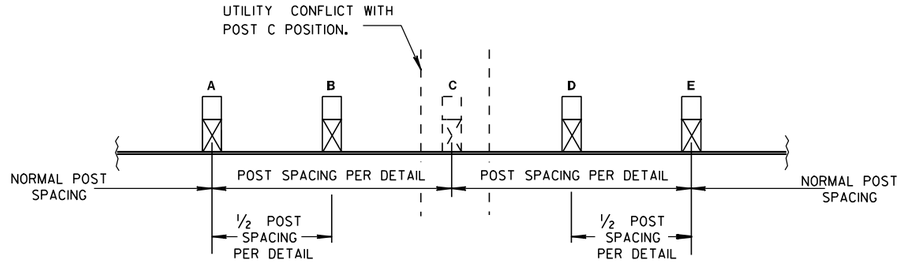


POST BOLT AND RECESS NUT

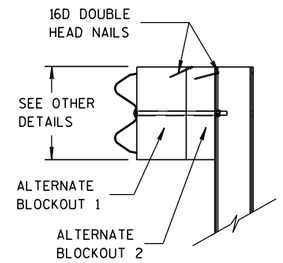


PLAN VIEW

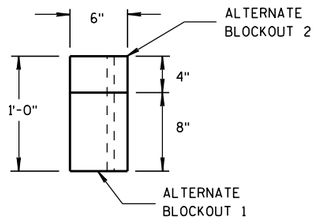
BEAM LAPPING DETAIL



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

ENT

6

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

6

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.

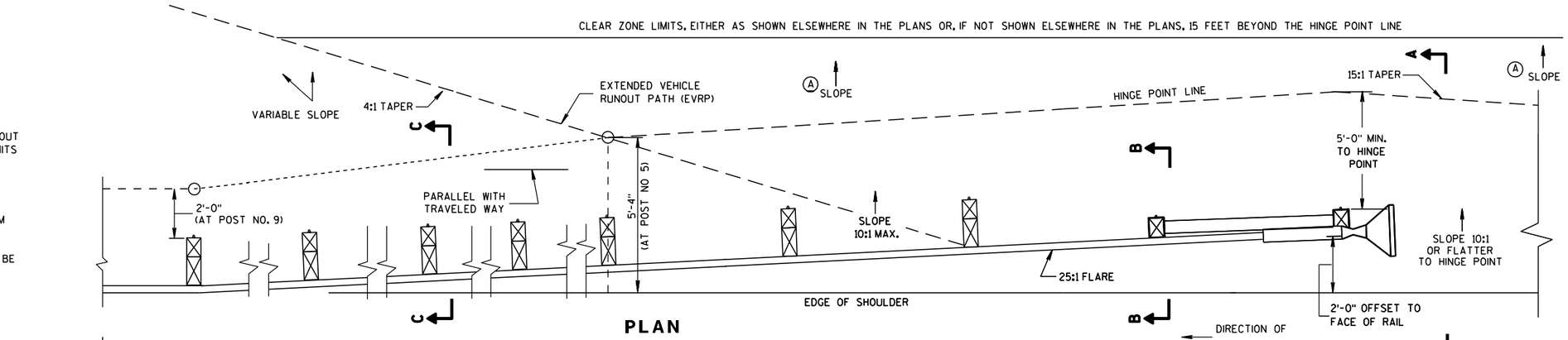
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

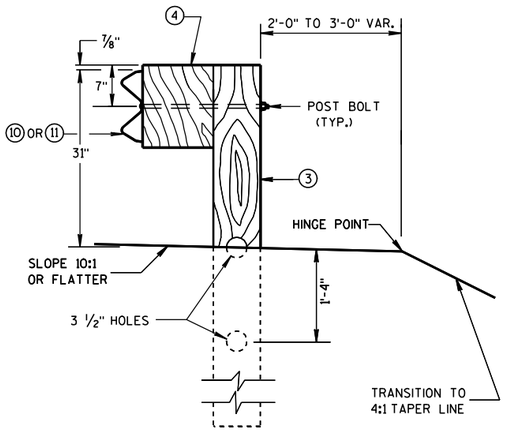
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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.

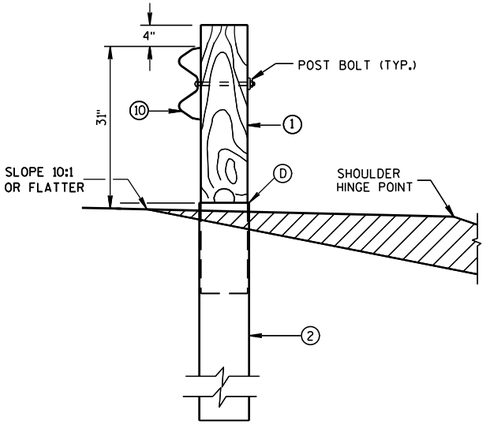
PATTERN AND COLORS ON REFLECTIVE SHEETING TYPE H ARE TO CONFORM TO OM3-L OR OM3-R OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

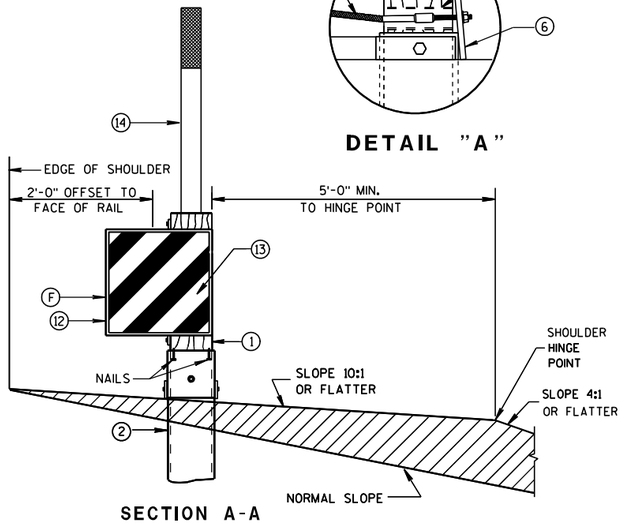




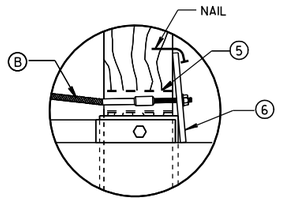
SECTION C-C
TYPICAL AT POST NOS. 3-9



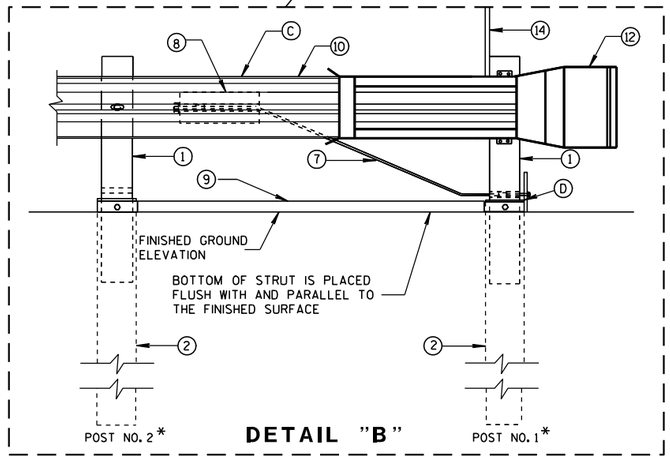
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



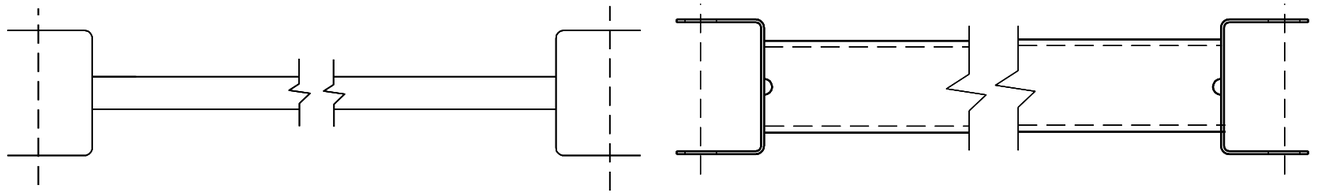
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

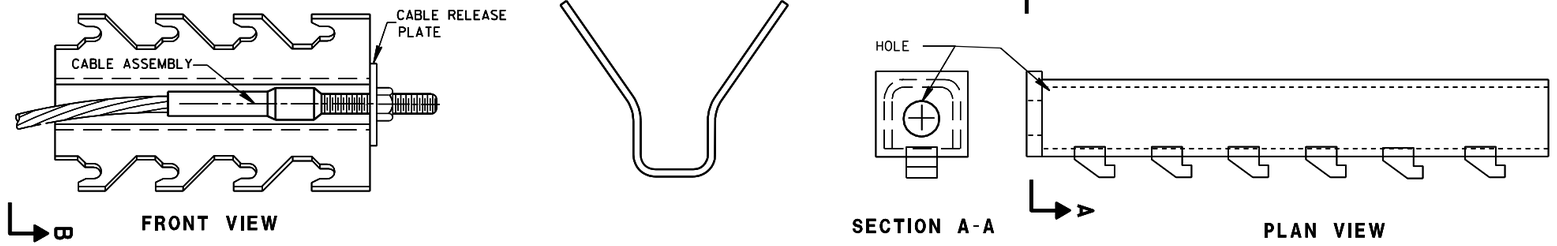
6 S.D.D. 14 B 44-1a



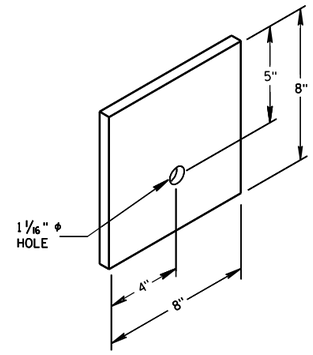
GENERIC GROUND STRUT (9) (H)

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)



GENERIC ANCHOR CABLE BOX (8) (H)



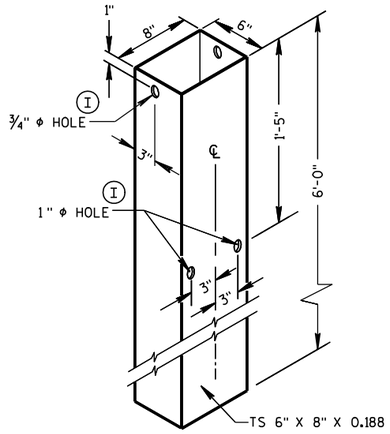
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

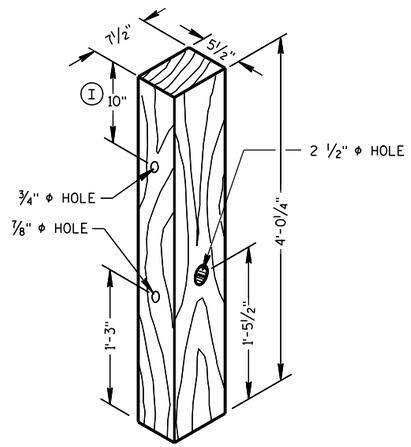
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

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

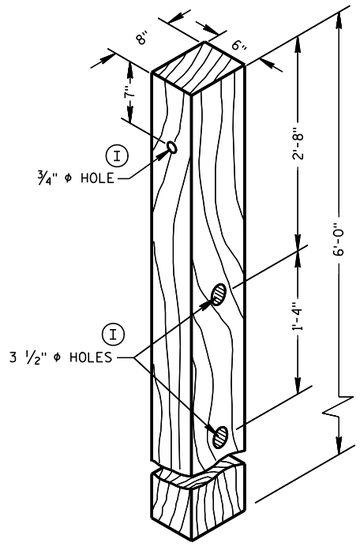


FOUNDATION TUBE (2)



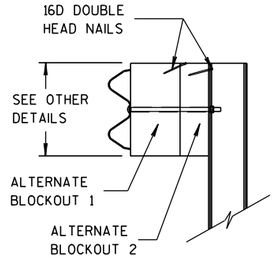
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

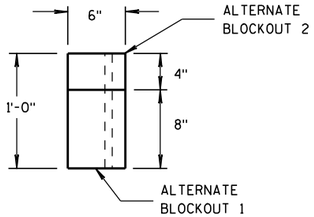


POSTS NUMBER 3-9

WOOD CRT POST (3)

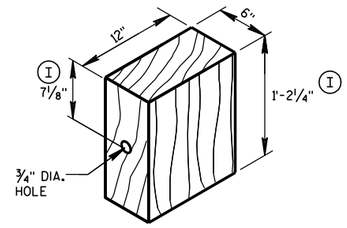


SIDE VIEW



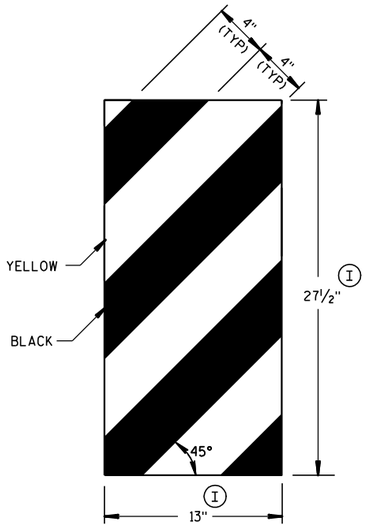
TOP VIEW

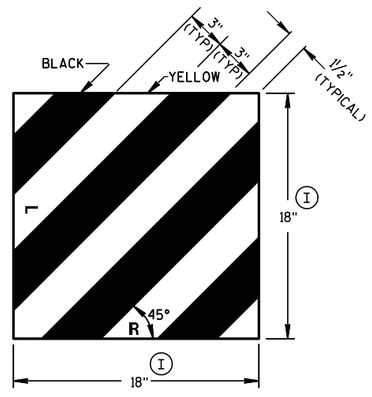
ALTERNATE WOOD BLOCKOUT DETAIL



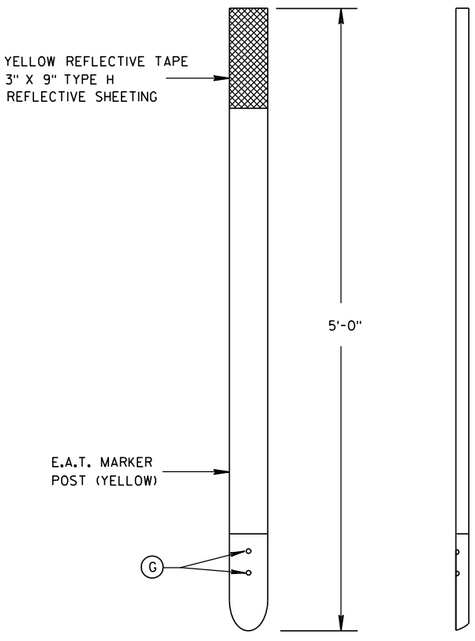
WOOD BLOCKOUT (4)

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



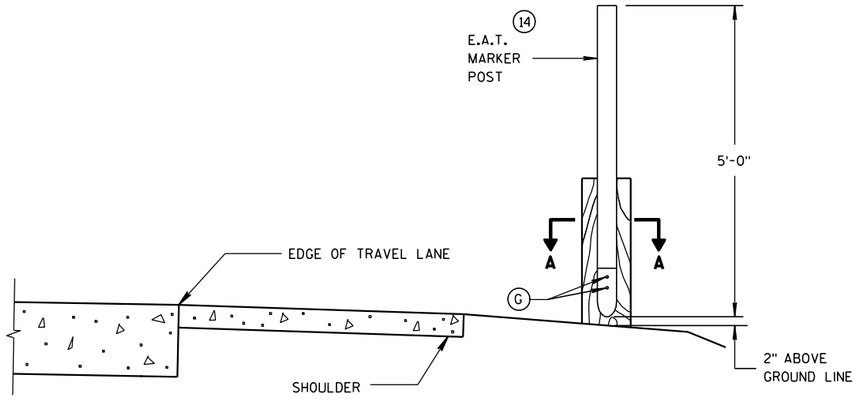


GENERIC REFLECTIVE SHEETING (13) (H)



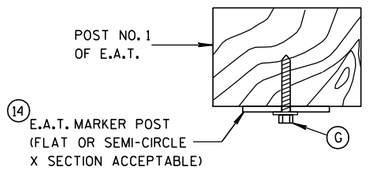
FRONT VIEW **SIDE VIEW**

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

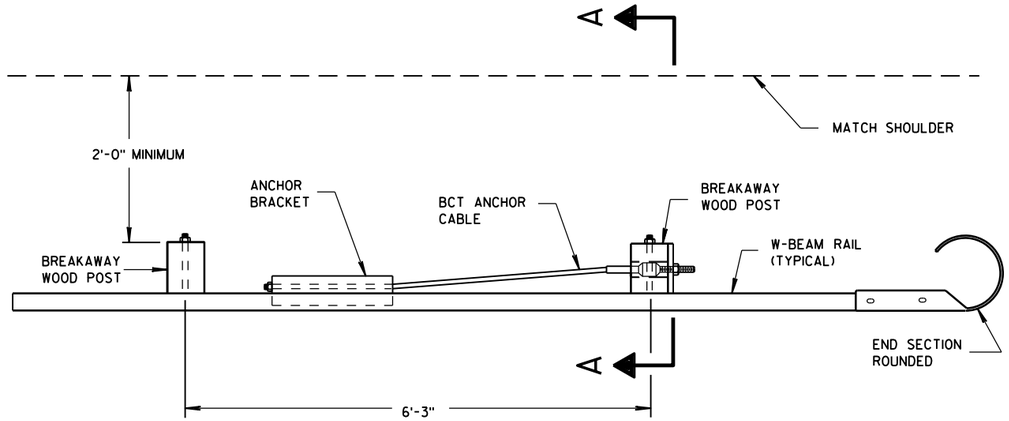
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

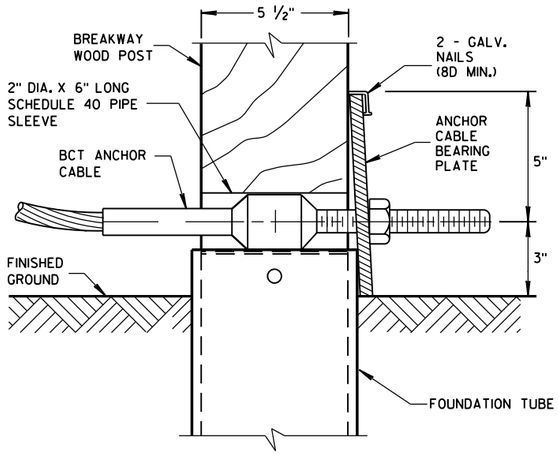
APPROVED
5/23/2011 — DATE
/S/ Jerry H. [illegible] — ROADWAY STANDARDS ENGINEER
FHWA

6

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



PLAN VIEW



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

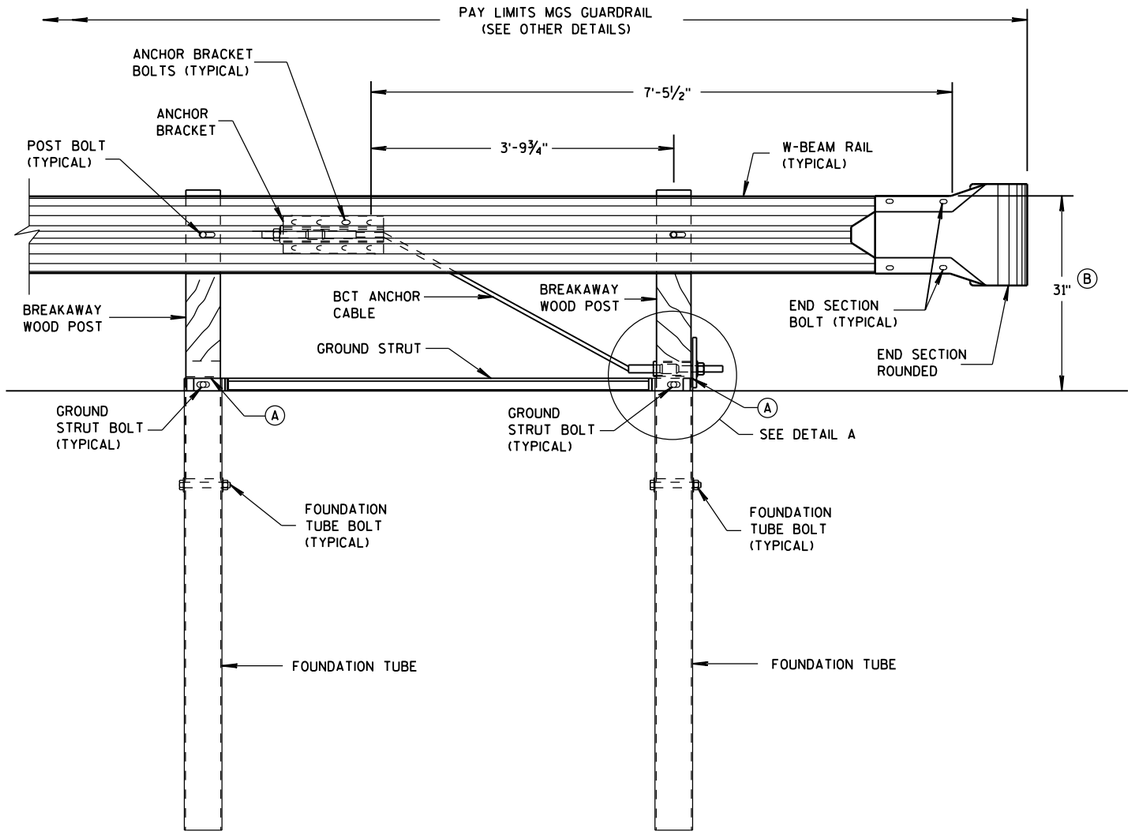
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

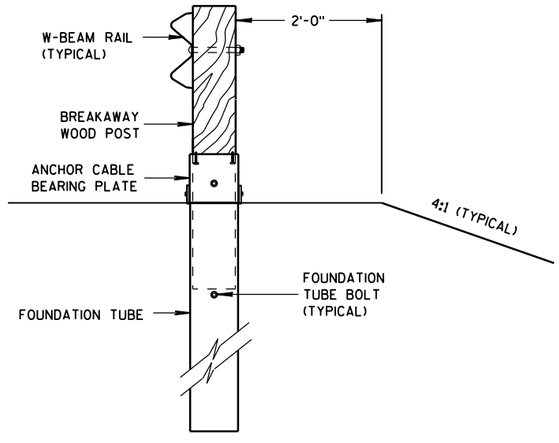
(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".

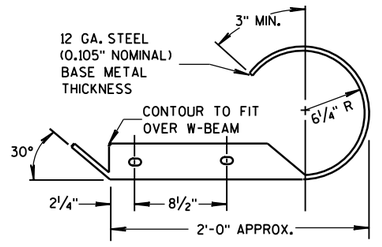


FRONT VIEW

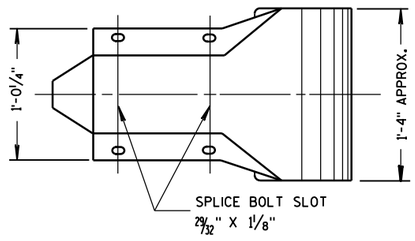
END RAIL DETAIL



SECTION A-A



PLAN VIEW



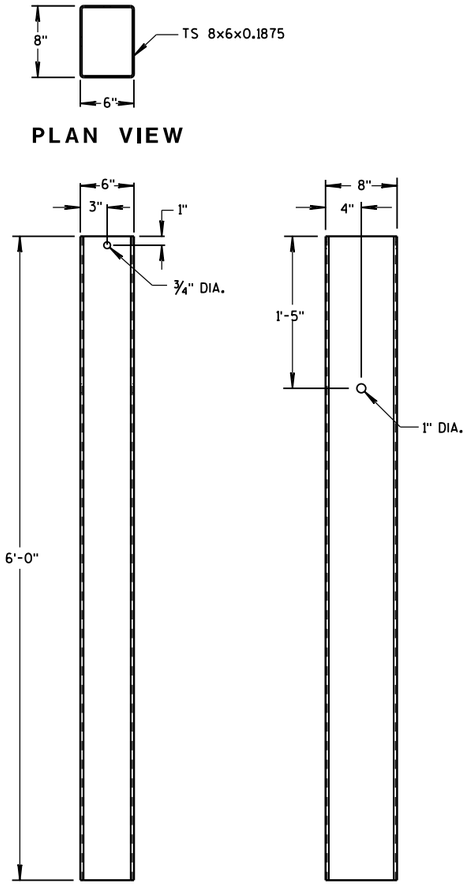
FRONT VIEW

W BEAM END SECTION ROUNDED

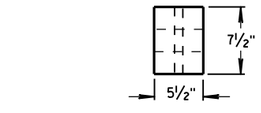
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

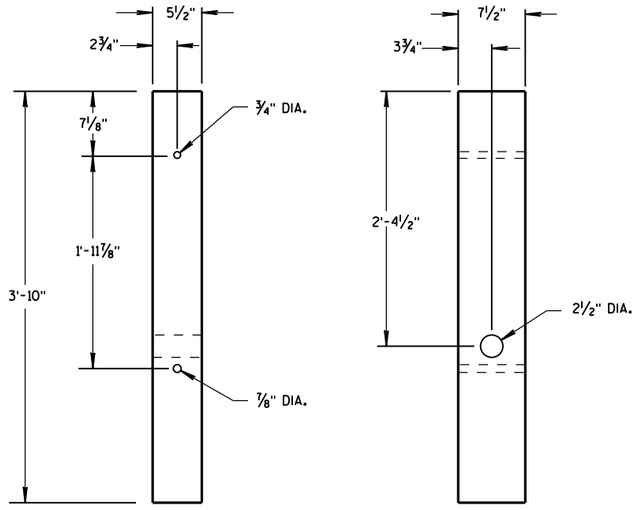
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 14 B 47-2a



FOUNDATION TUBE



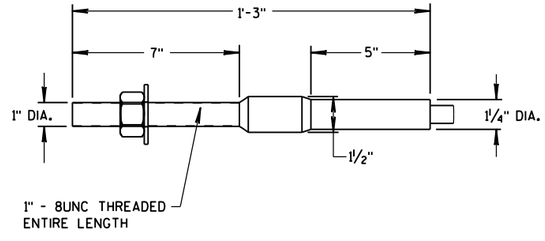


BREAKAWAY WOOD POST

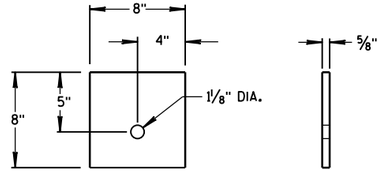
GENERAL NOTES

BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

BCT ANCHOR CABLE



DETAIL B



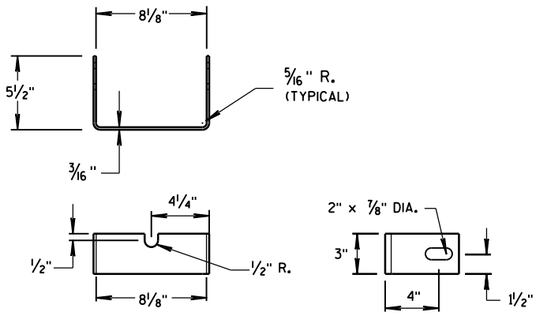
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

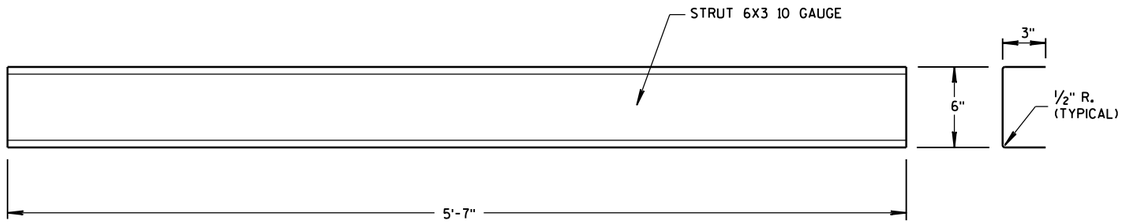
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

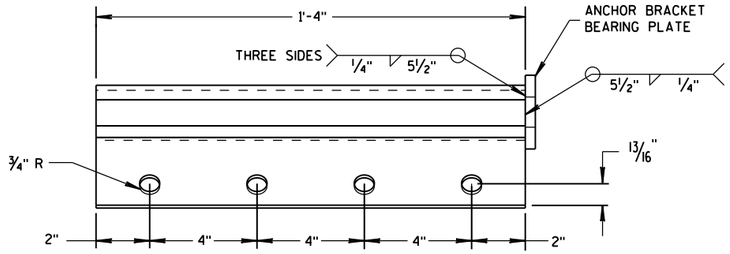
S.D.D. 14 B 47-2b

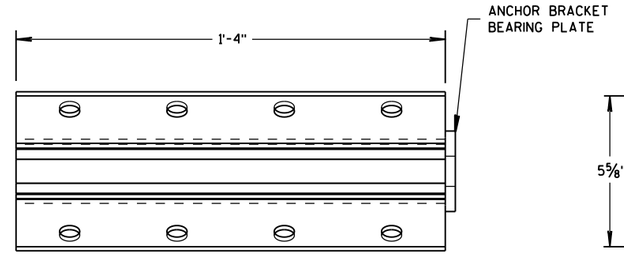


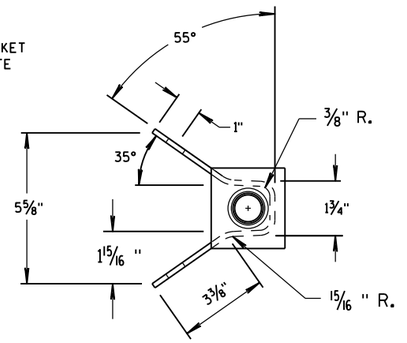
YOKE DETAIL



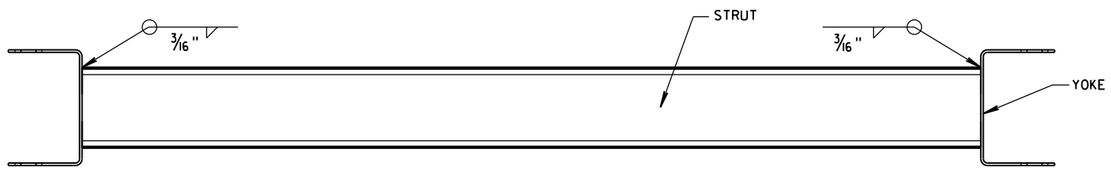
STRUT DETAIL



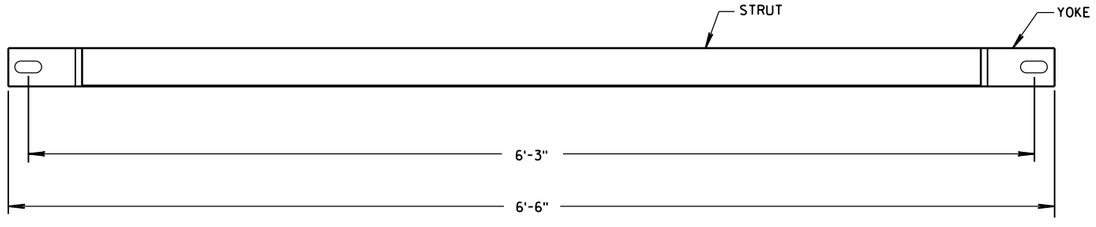




ANCHOR BRACKET

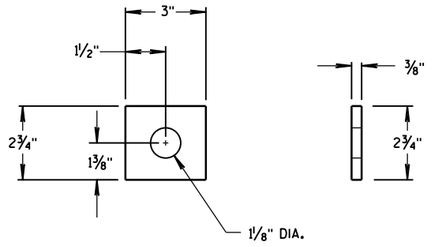


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

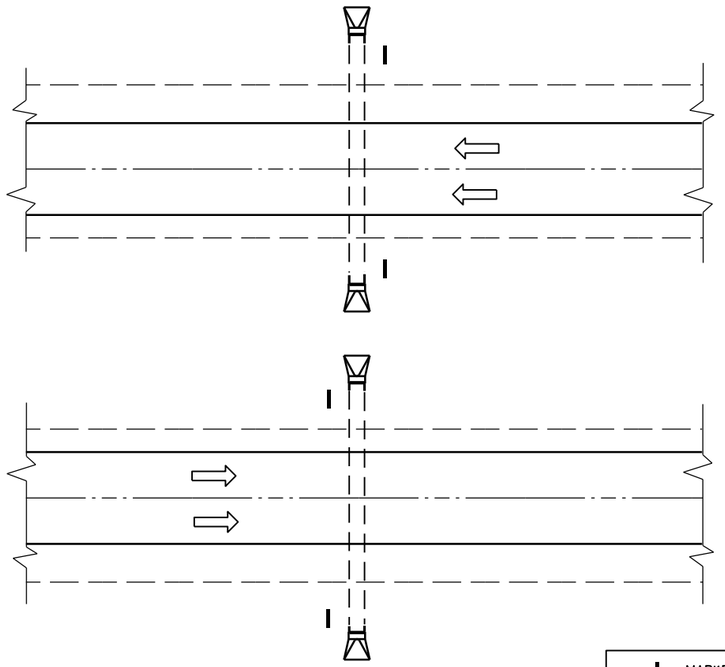
APPROVED
June 2014
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

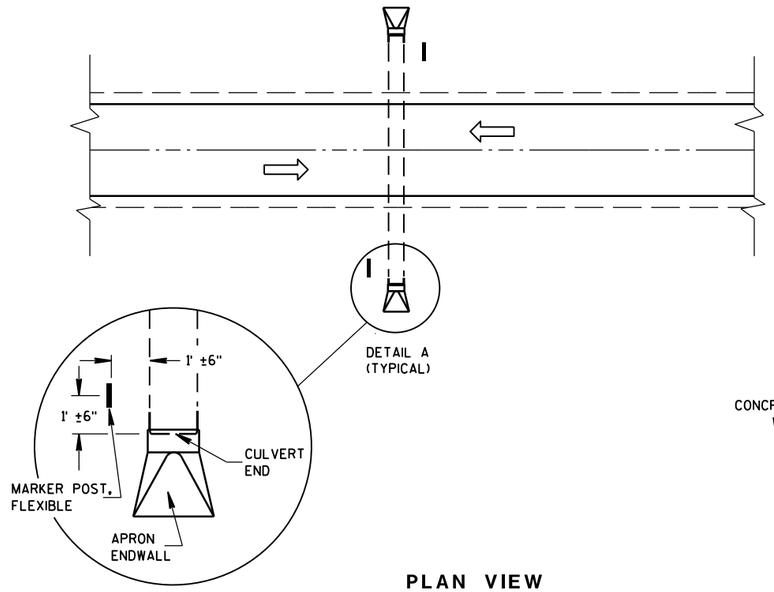
6

S.D.D. 14 B 47-2c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

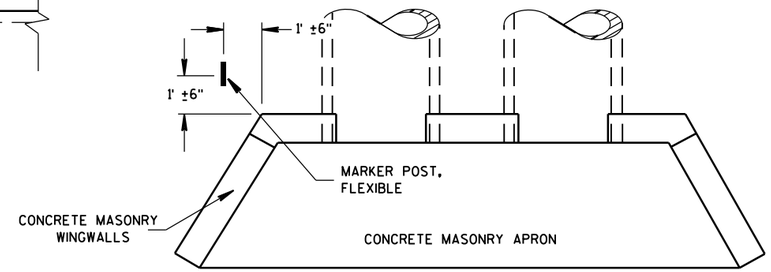
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

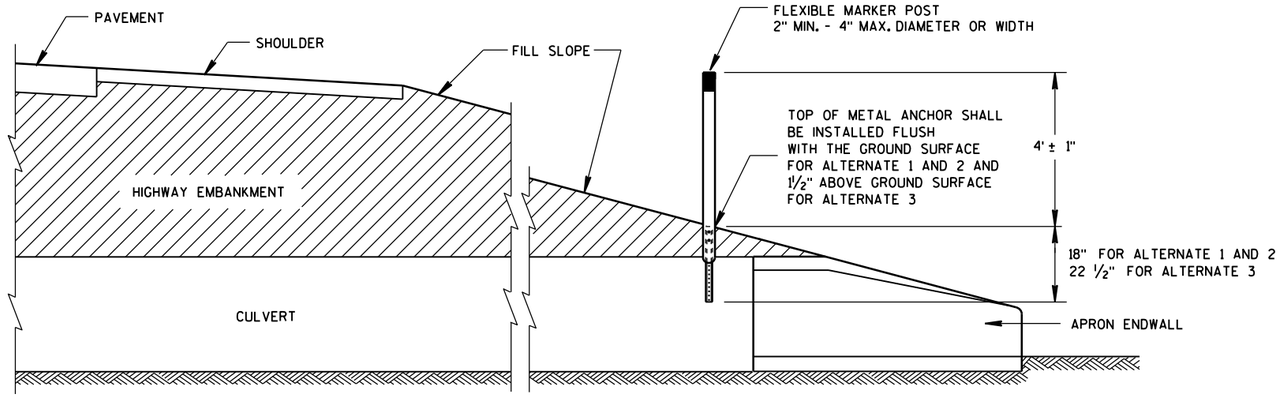
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

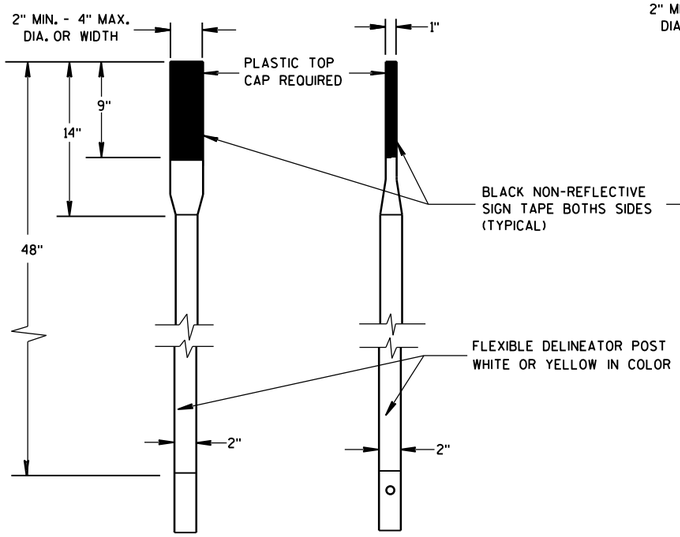
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

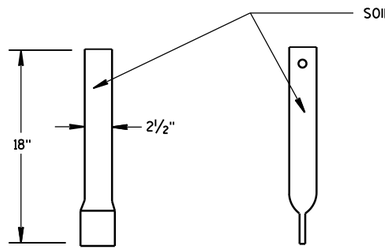
6

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

6

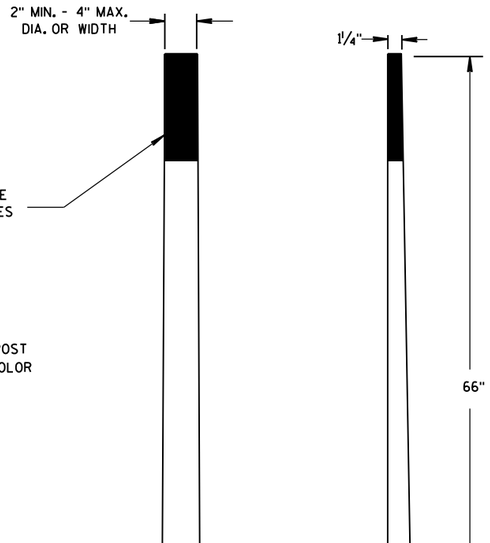
S.D.D. 15 A 3-2a





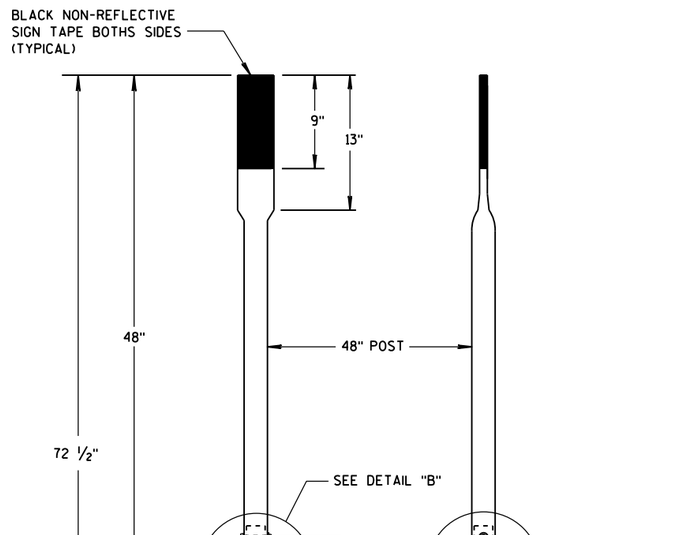
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

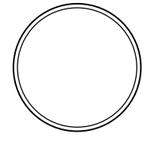
ALTERNATE 2



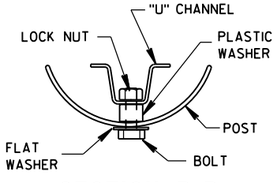
FRONT VIEW SIDE VIEW

ALTERNATE 3

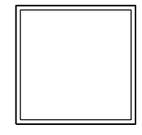
FLEXIBLE MARKER POSTS



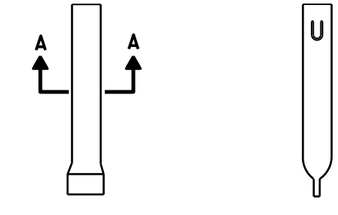
SECTION A-A



SECTION B-B

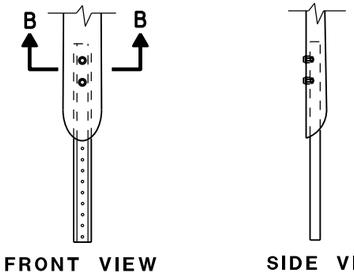


SECTION C-C



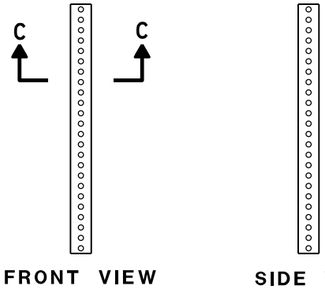
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

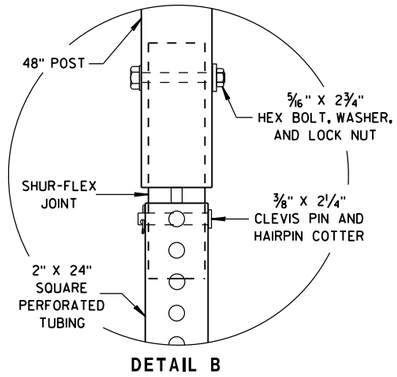
ALTERNATE 2



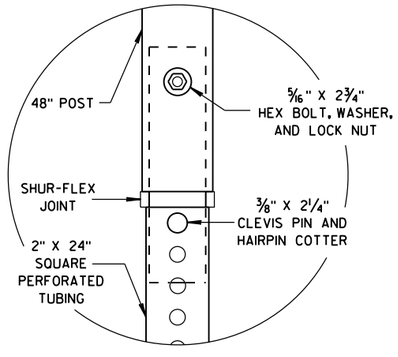
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

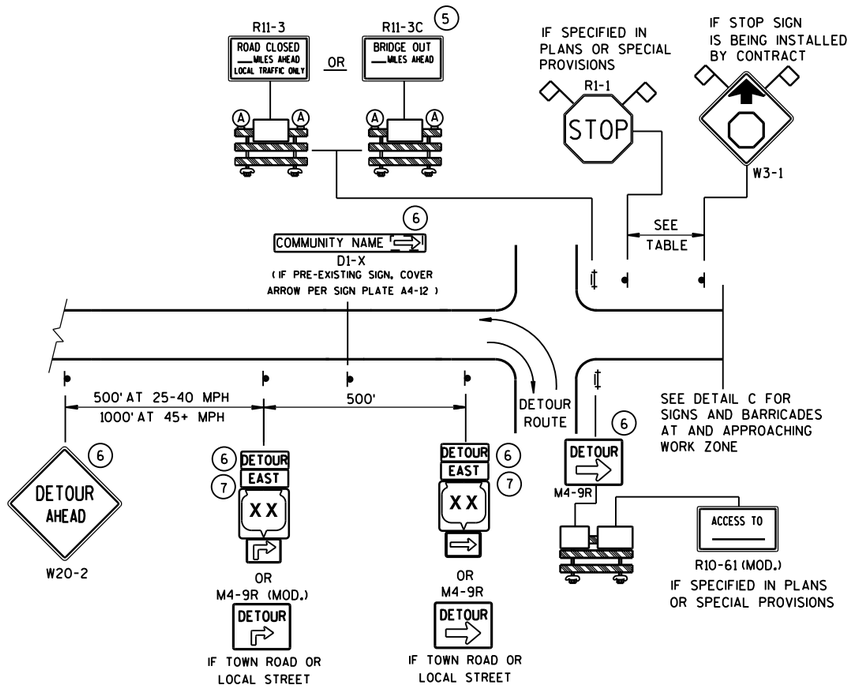
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

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

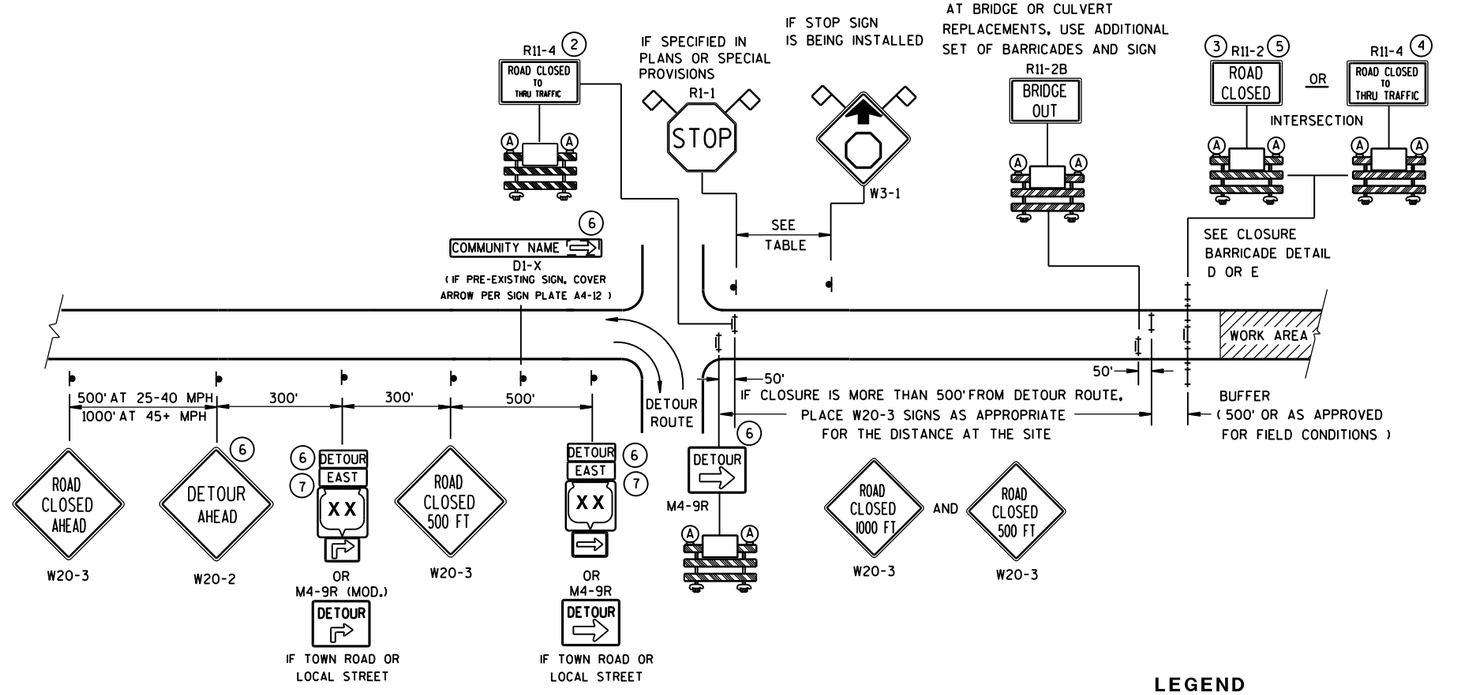
6

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



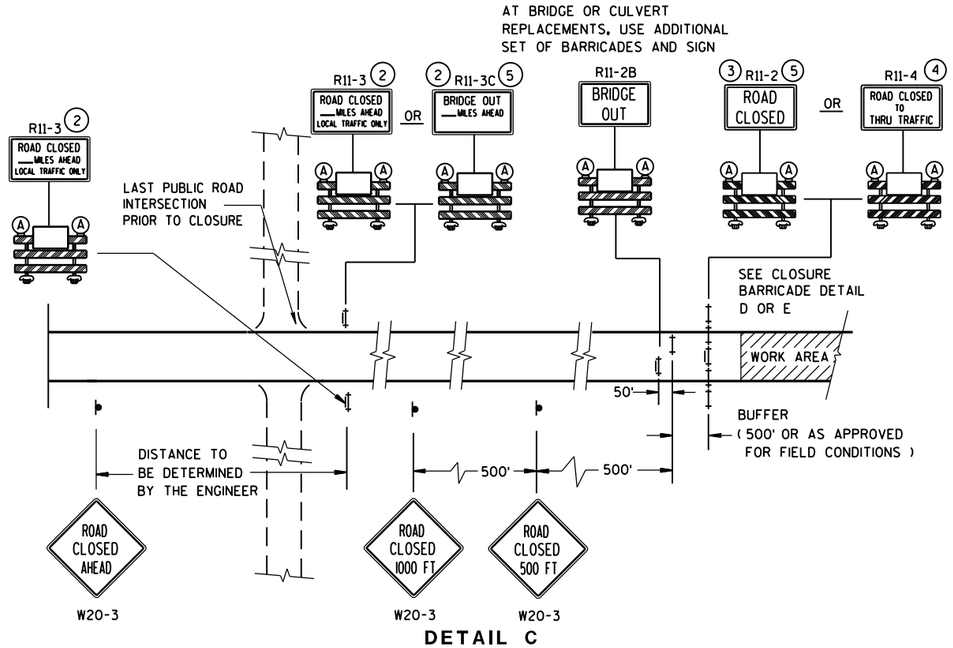
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

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



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

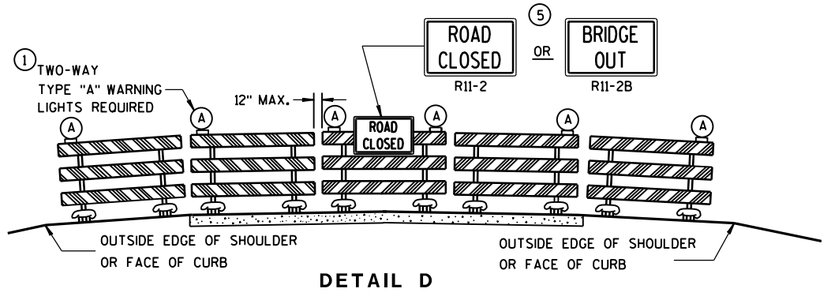
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

6

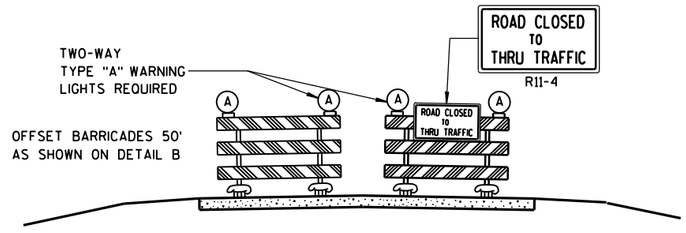
S.D.D. 15 C 2-5a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

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

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

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

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

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

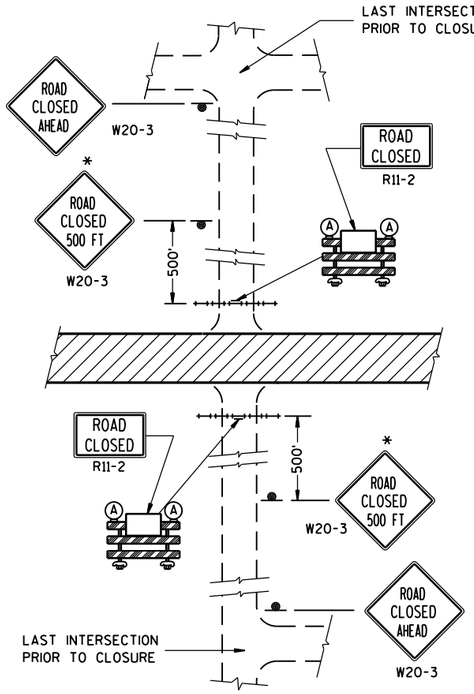
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

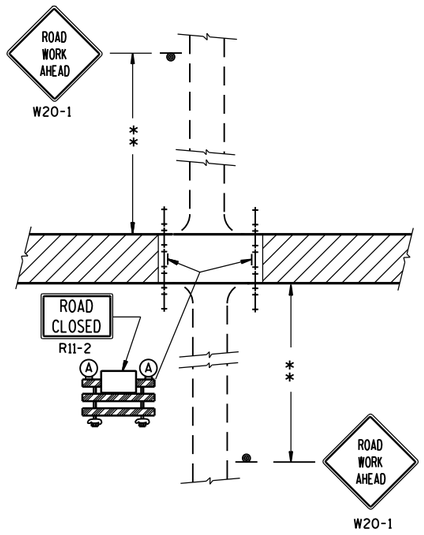
6

S.D.D. 15 C 2-5b



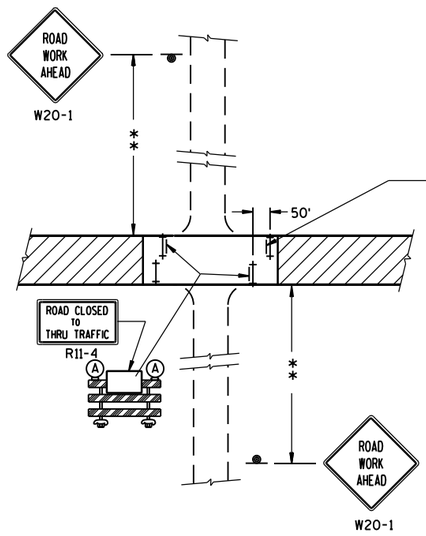
DETAIL 1

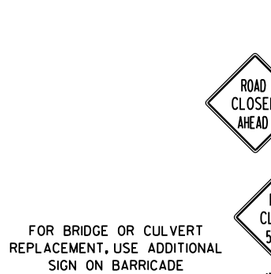
(NO ACCESS TO PROJECT)



DETAIL 2

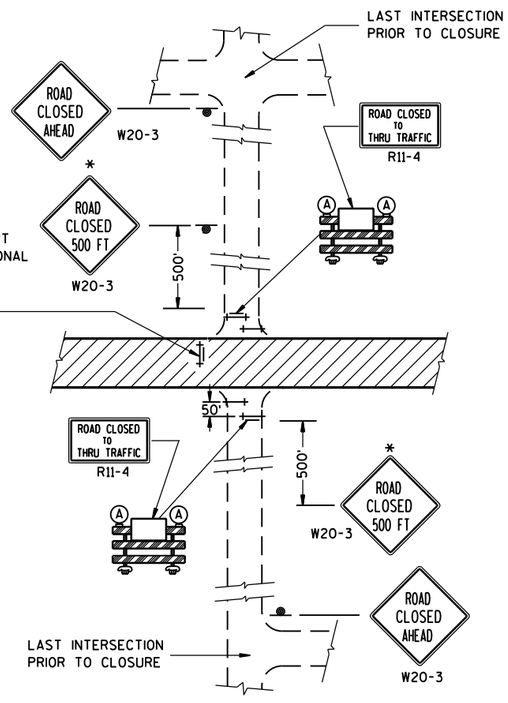
(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

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



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

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

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

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

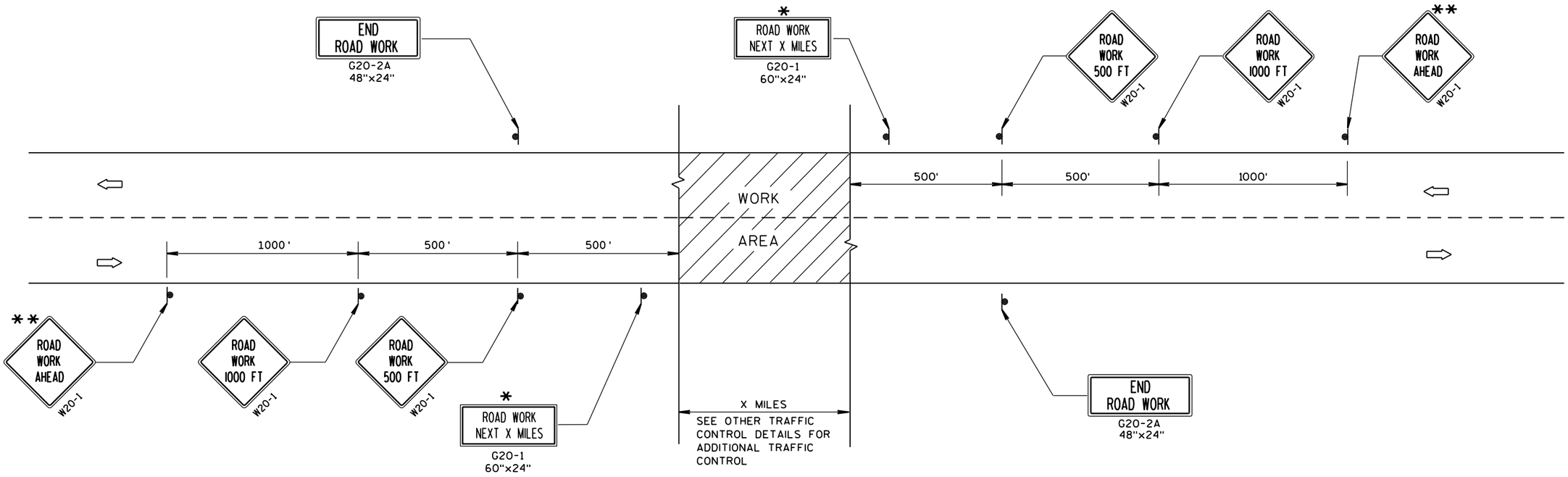
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 3-2

6

S.D.D. 15 C 3-2



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

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

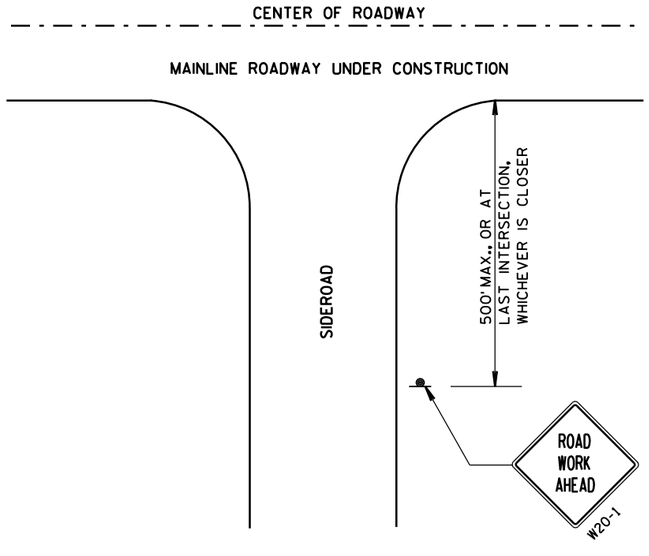
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

SIGN

FHWA

6

S.D.D. 15 C 4-2

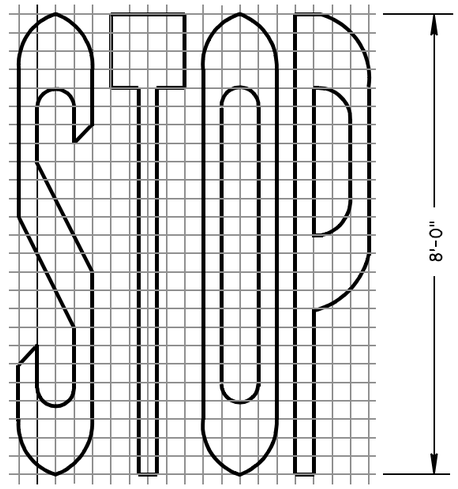
6

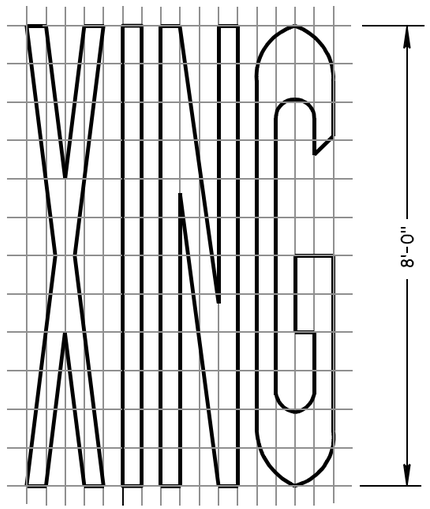
S.D.D. 15 C 4-2

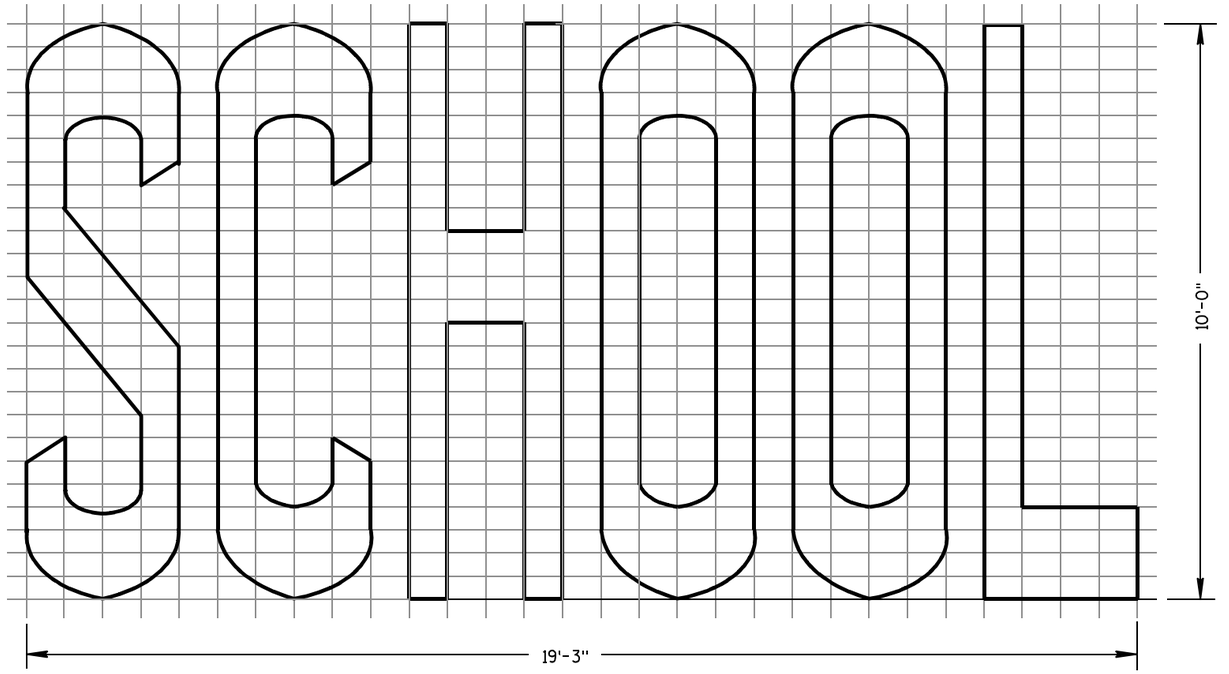
GENERAL NOTES

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

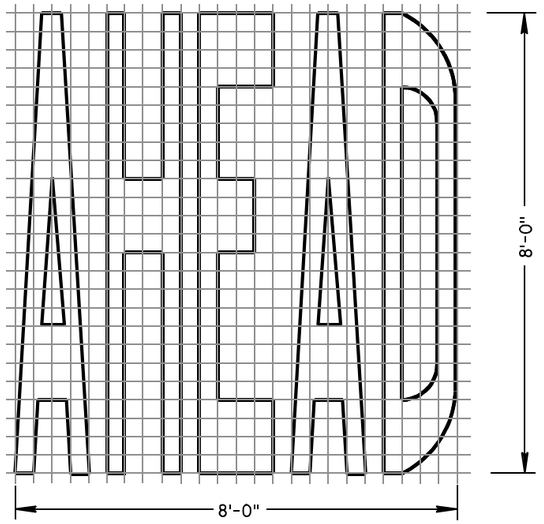
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

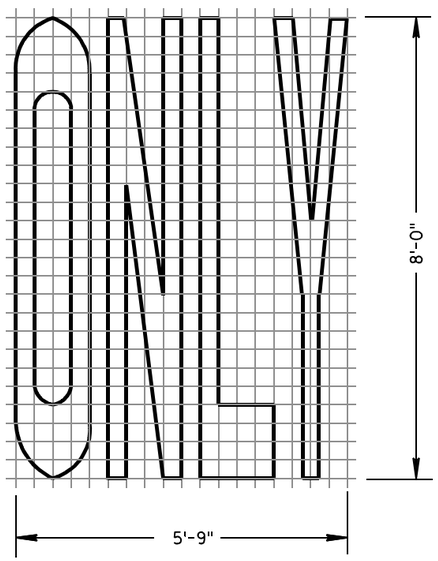


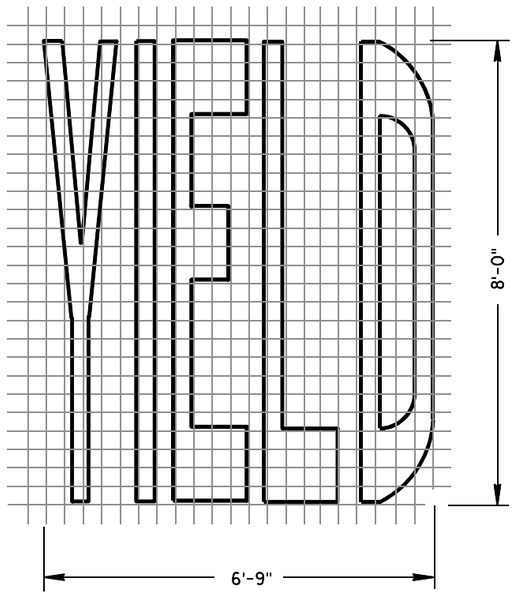


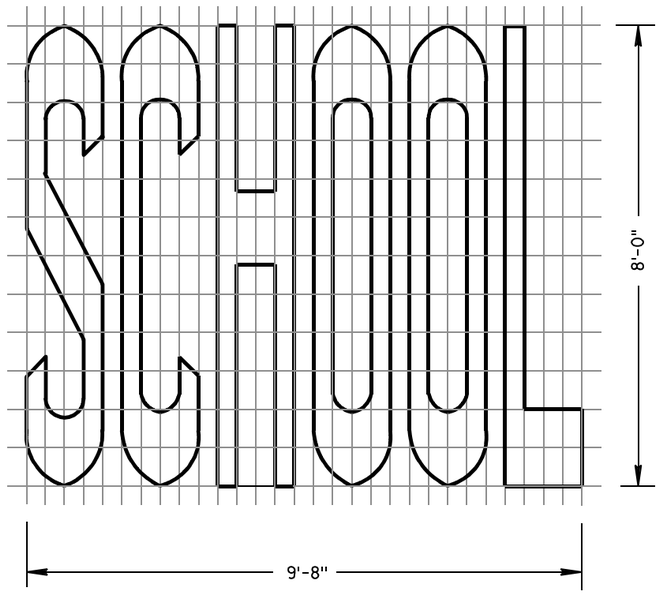


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 7-12b

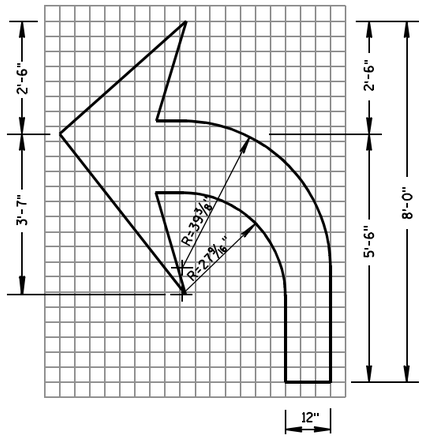
6

S.D.D. 15 C 7-12b

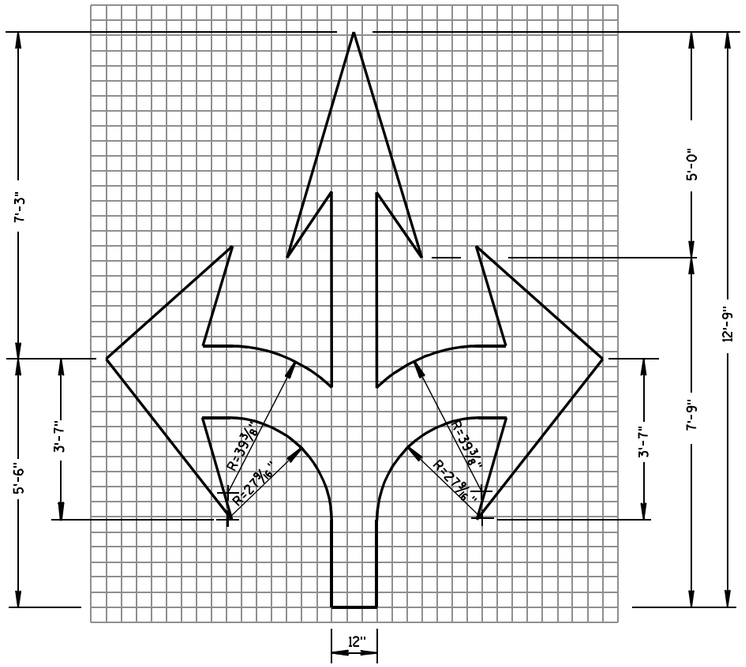
GENERAL NOTES

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

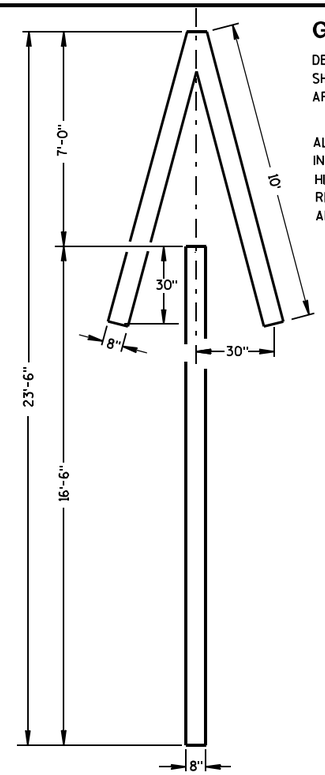
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



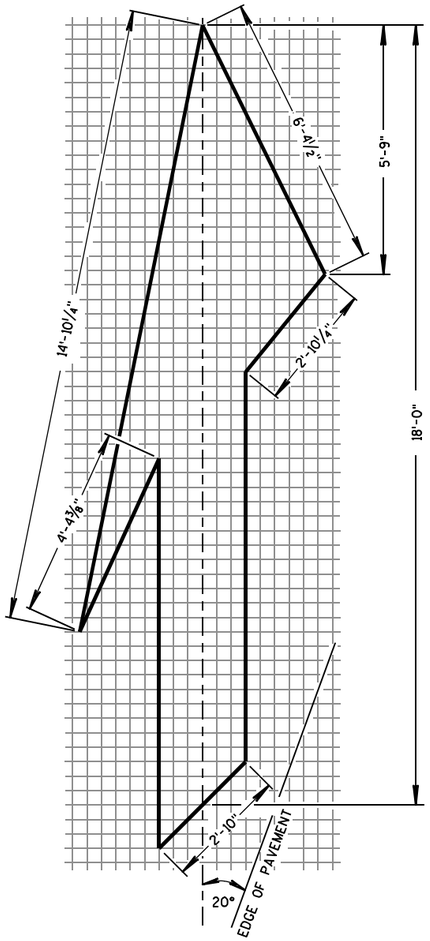
TYPE 2



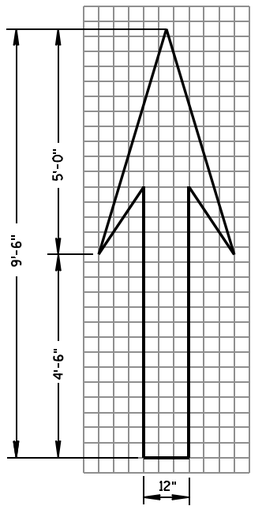
TYPE 6



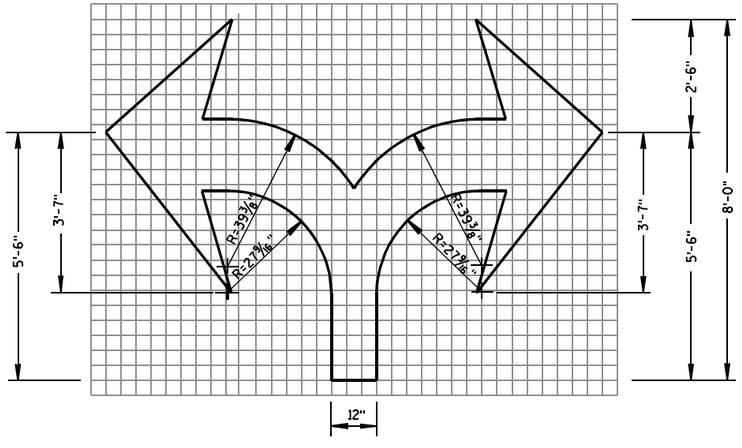
TYPE 4



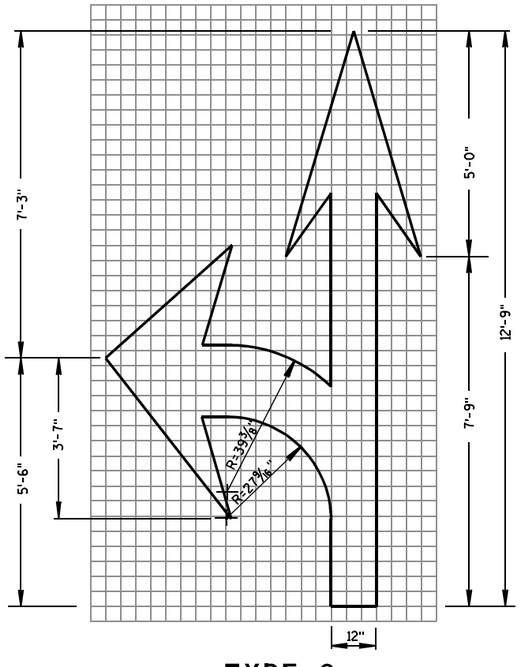
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

FHWA

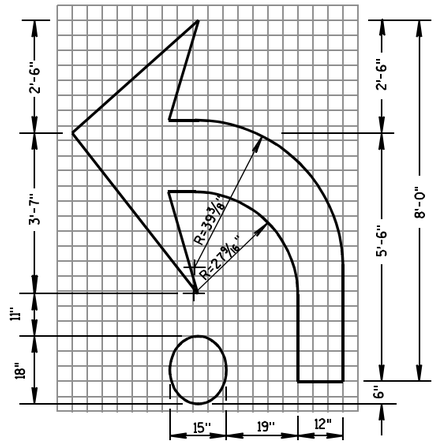
6

S.D.D. 15 C 7-12c

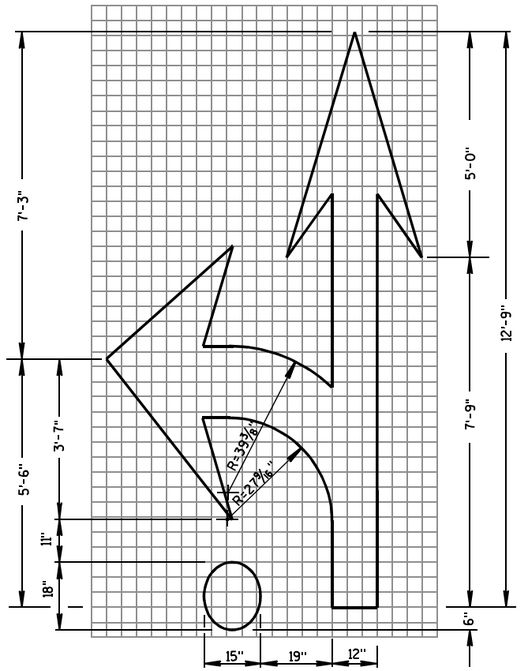
GENERAL NOTES

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

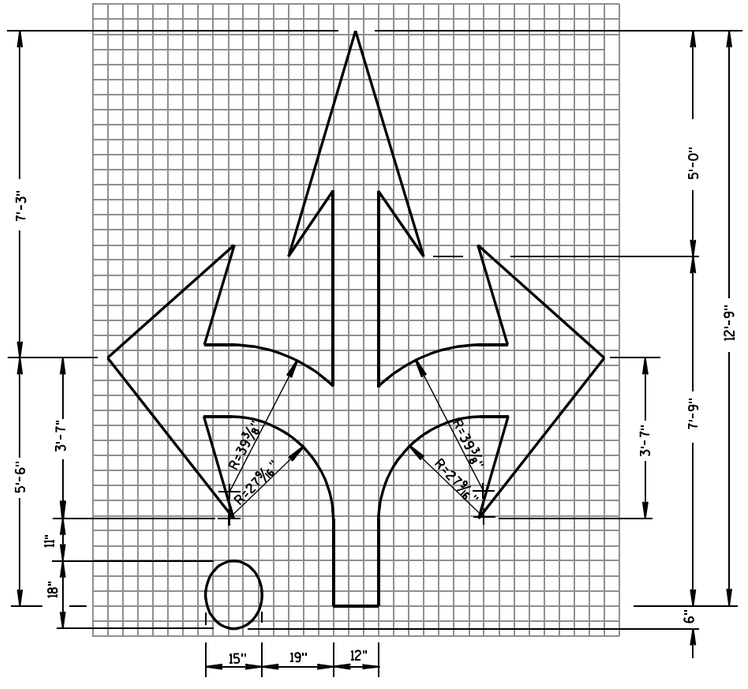
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



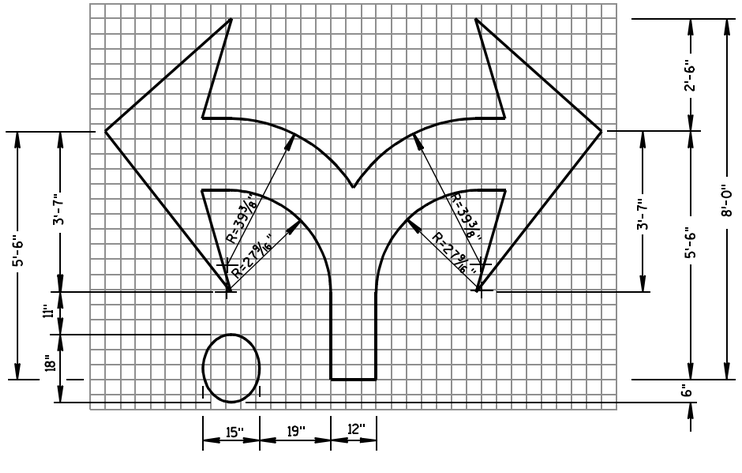
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

ROUNDABOUT ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

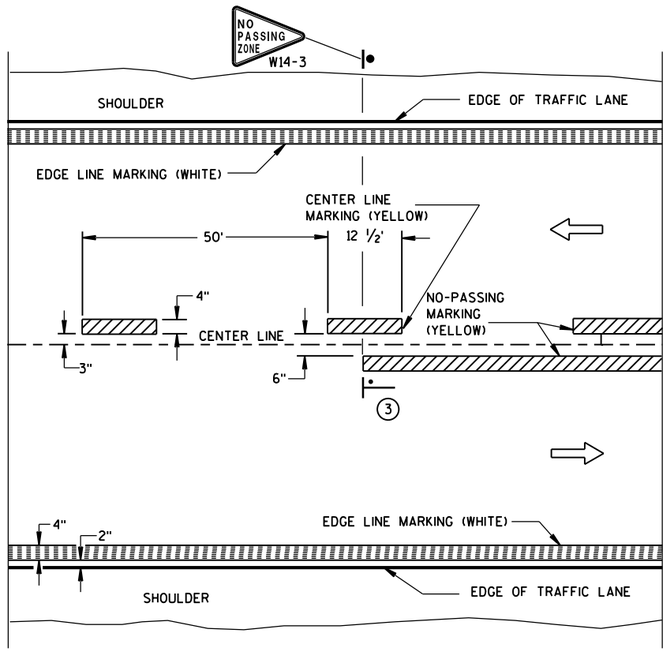
7/1/11 — DATE

/S/ Thomas N. Nothdurm — STATE TRAFFIC ENGINEER

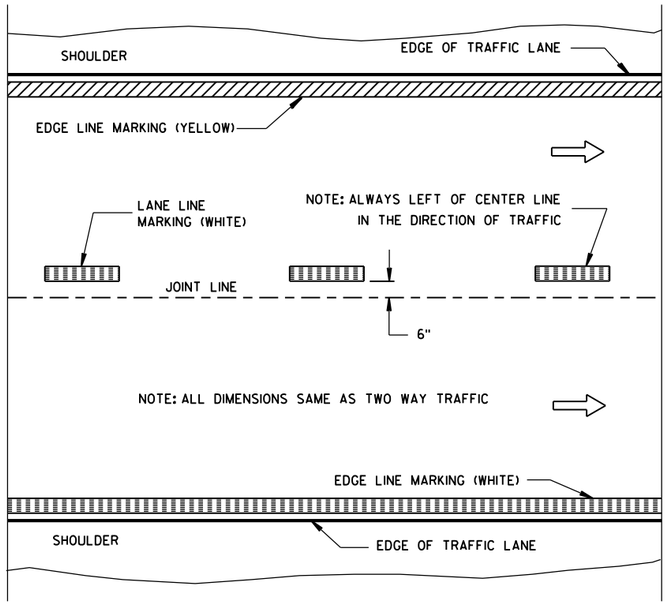
FHWA

6

S.D.D. 15 C 7-12d

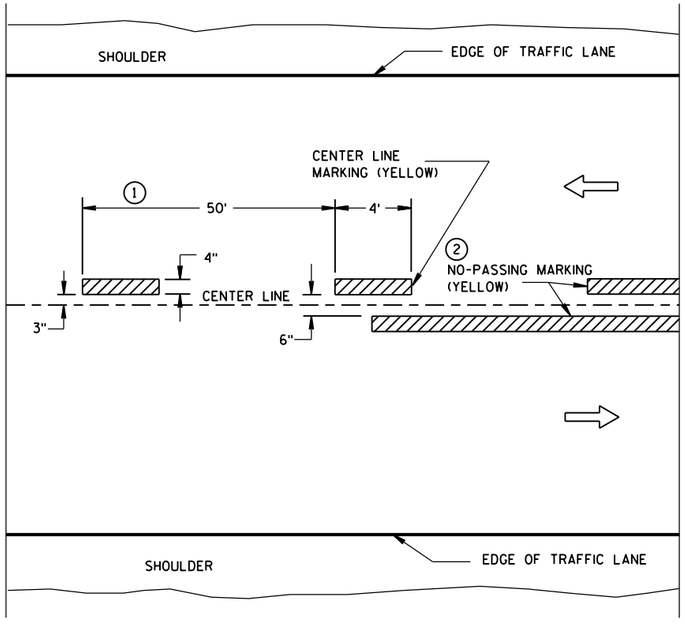


TWO WAY TRAFFIC

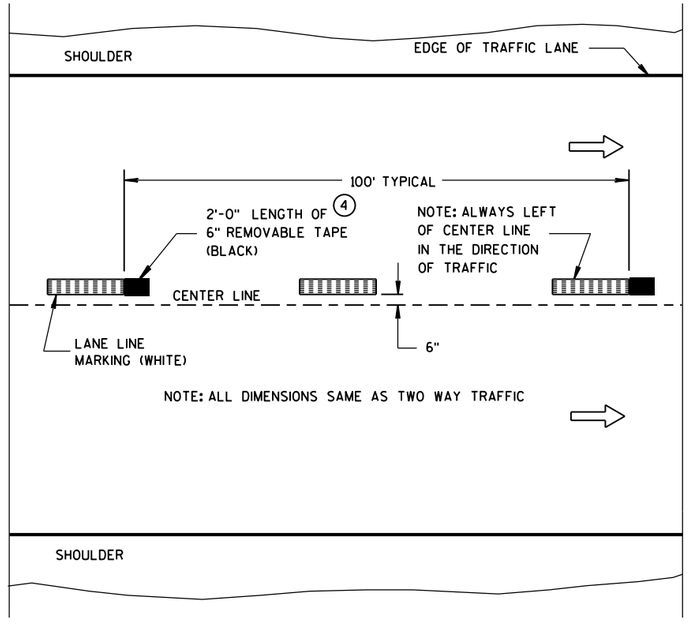


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

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

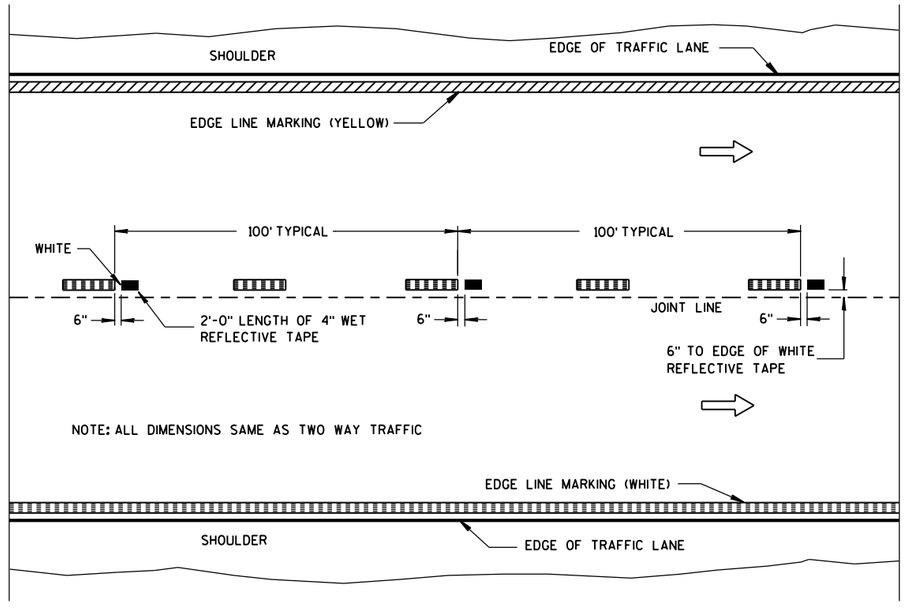
GENERAL NOTES

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

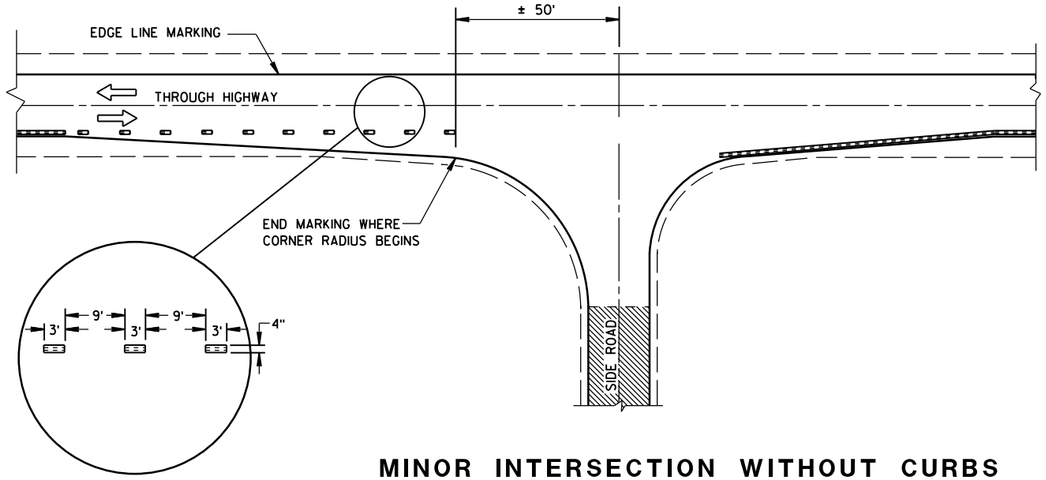
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

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.

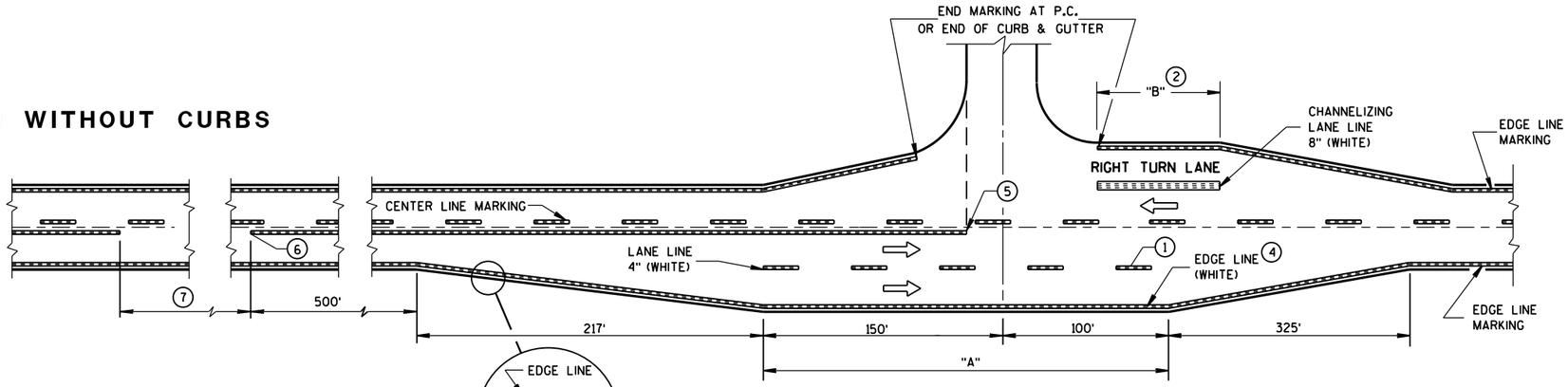
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

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

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

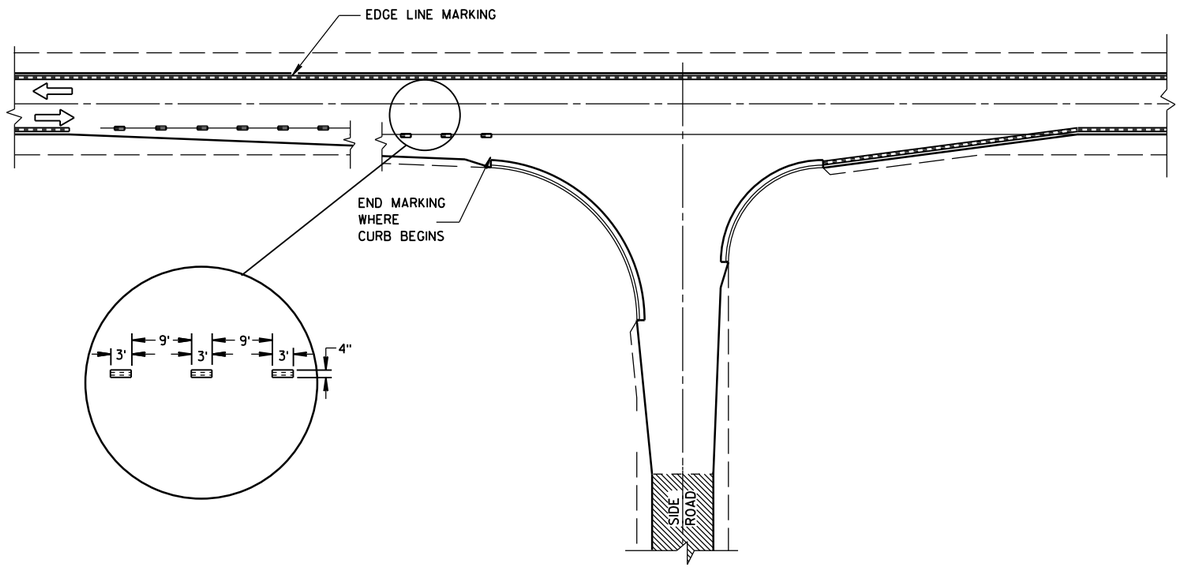
(7)

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



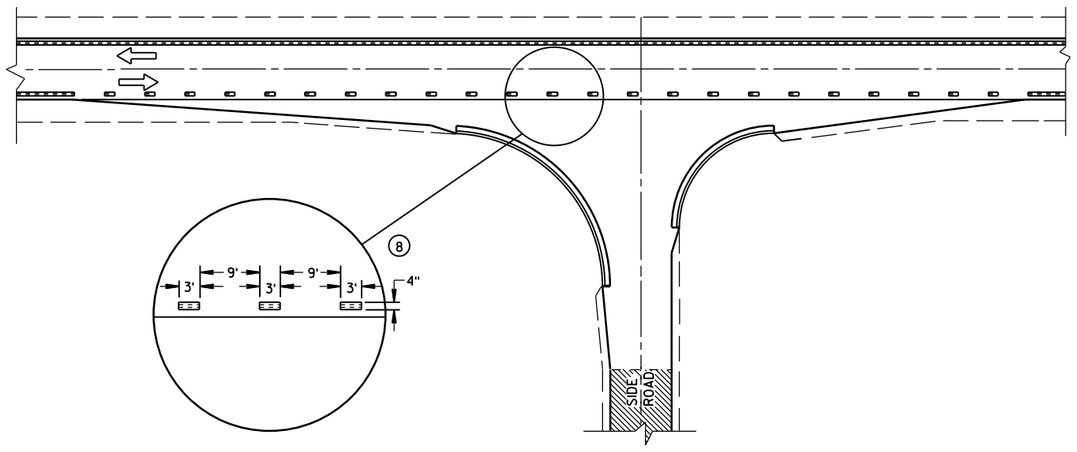
MAJOR INTERSECTIONS

(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)

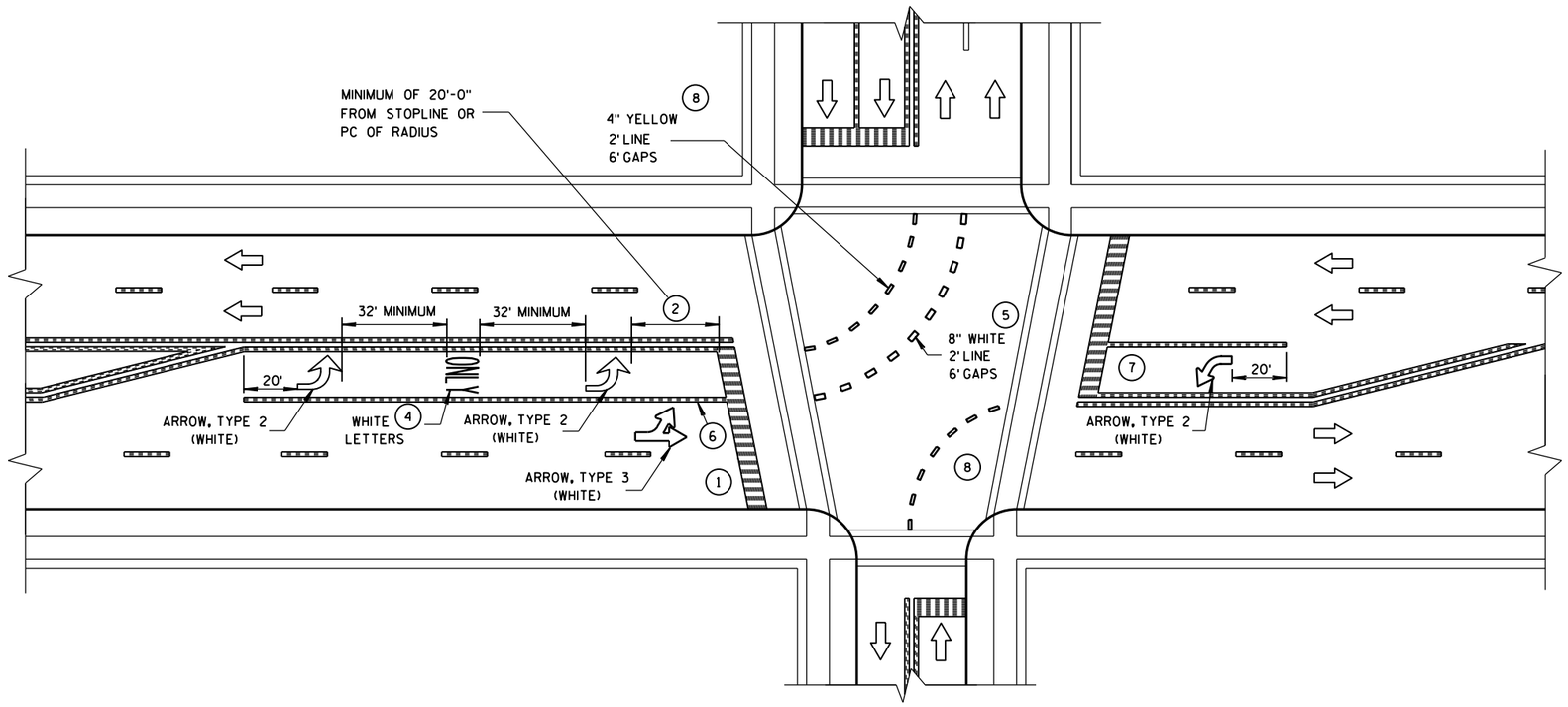
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

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

6

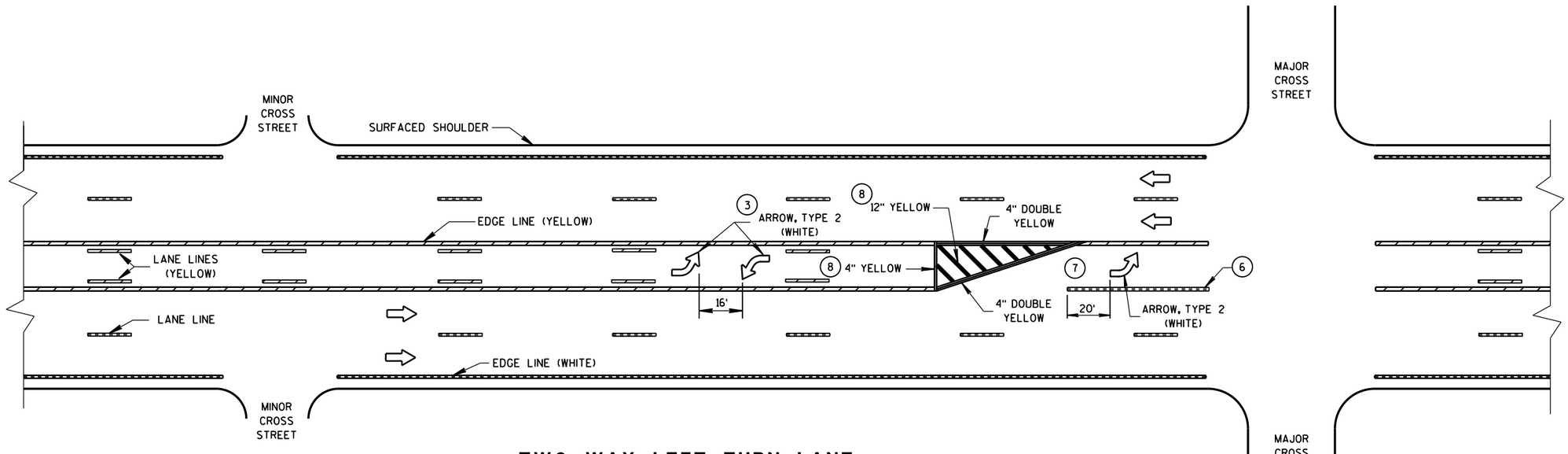
S.D.D. 15 C 8-16b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

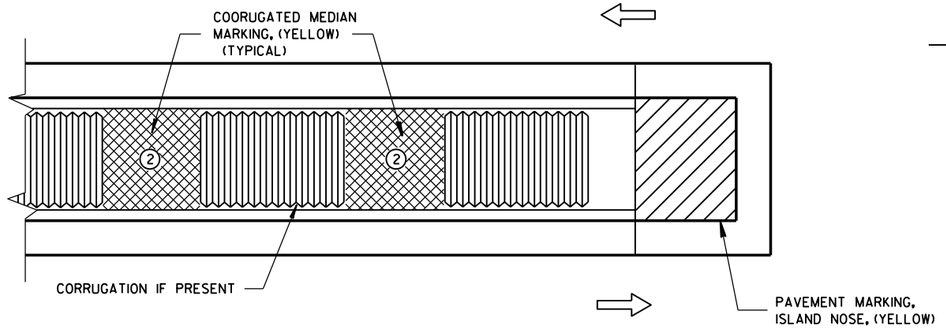
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

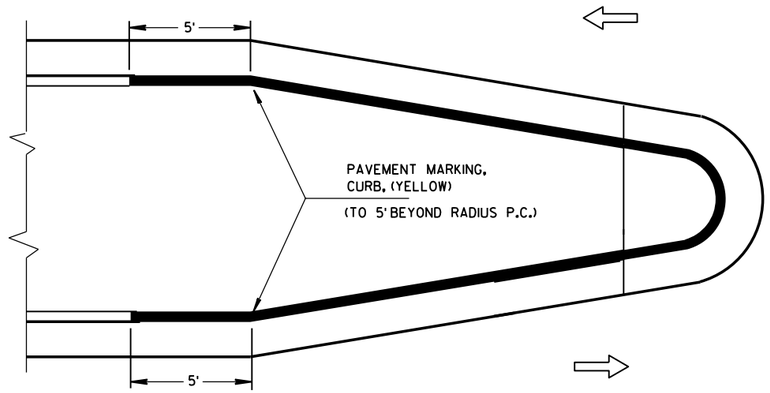
S.D.D. 15 C 8-16e

6

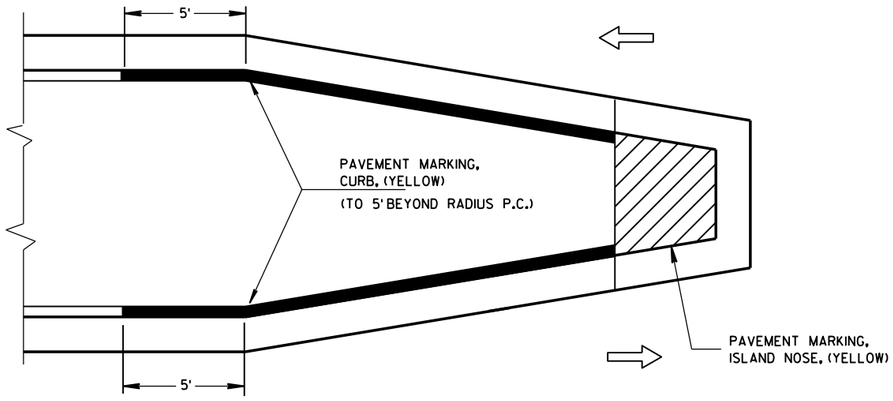
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

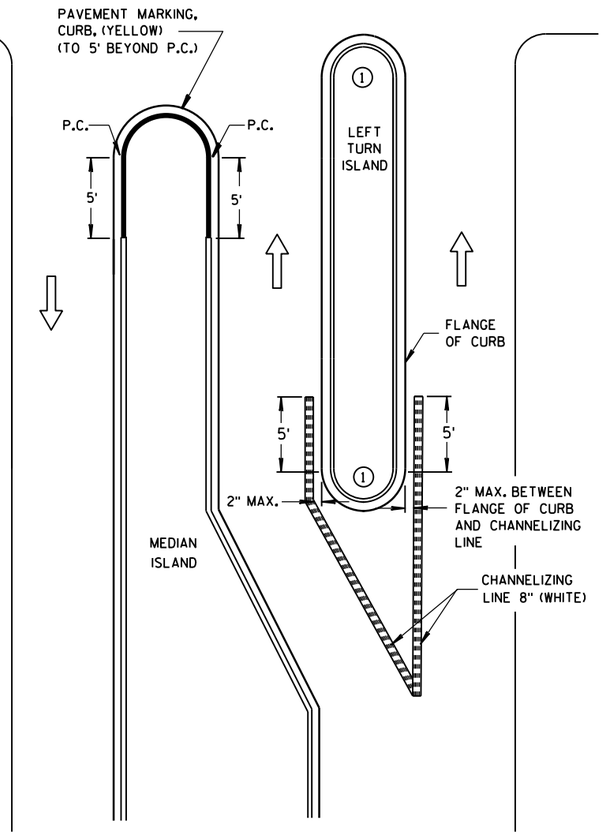


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

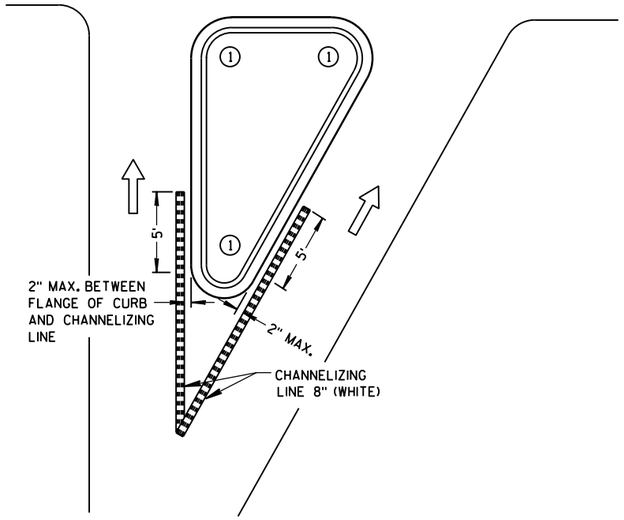


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

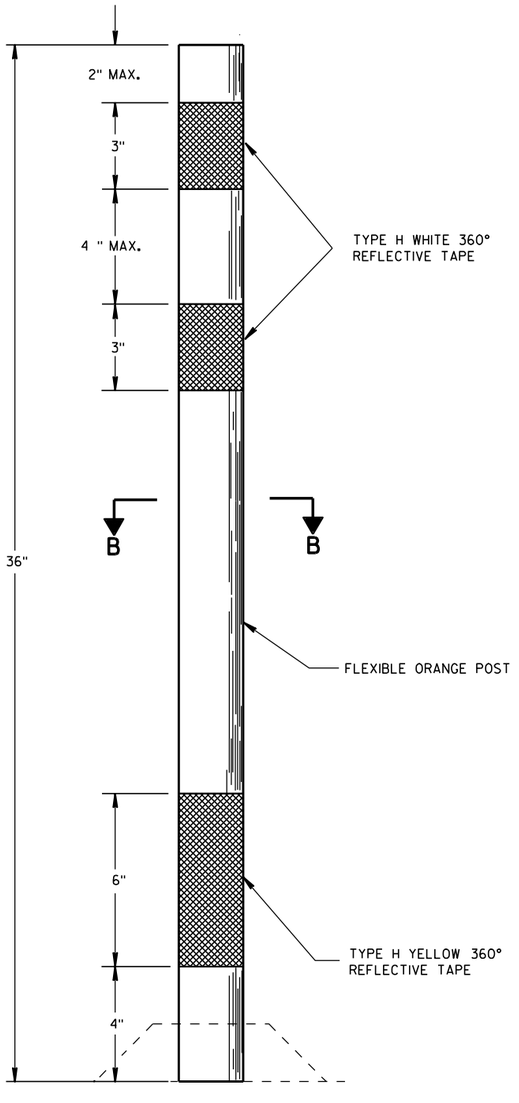
- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

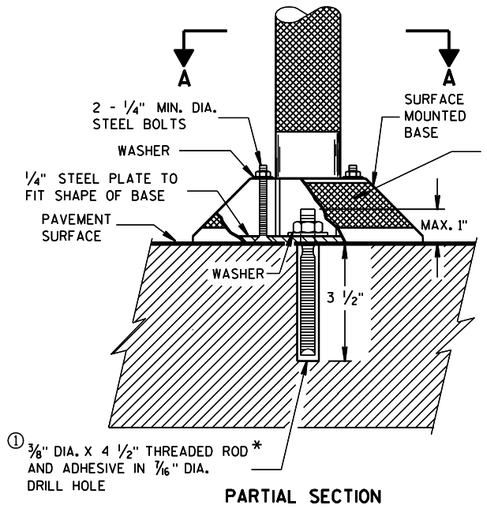
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

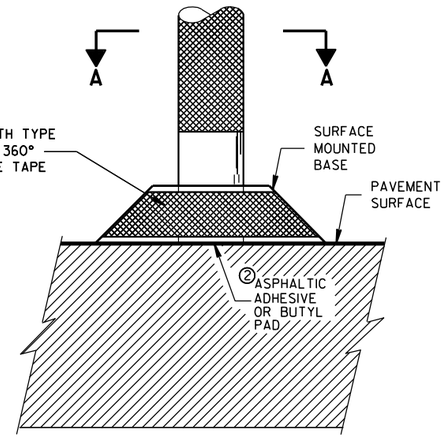
S.D.D. 15 C 8-16f



FLEXIBLE TUBULAR MARKER POST



PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT

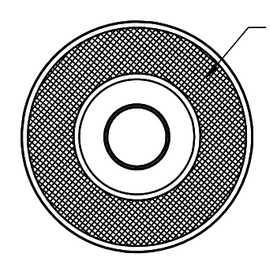
GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

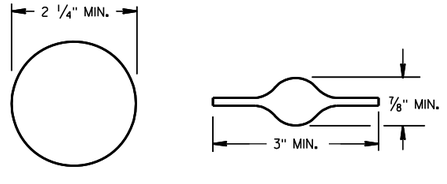
① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



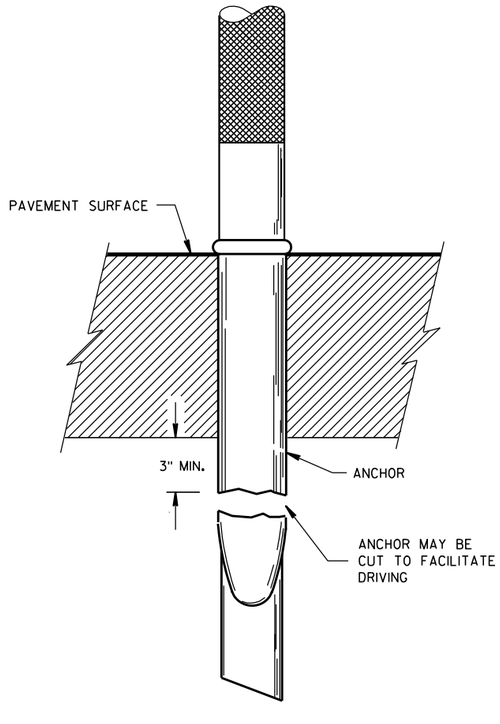
SECTION A-A

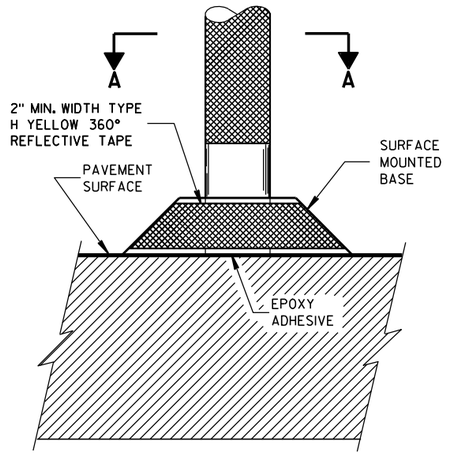
SURFACE MOUNTED BASE



SECTION B-B

ALTERNATIVE SHAPES





POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED

FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2/17/94 DATE

/S/ Chester J. [illegible] DIRECTOR, OFFICE O

FHWA

6

S.D.D. 15 C 11-5

6

S.D.D. 15 C 11-5

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

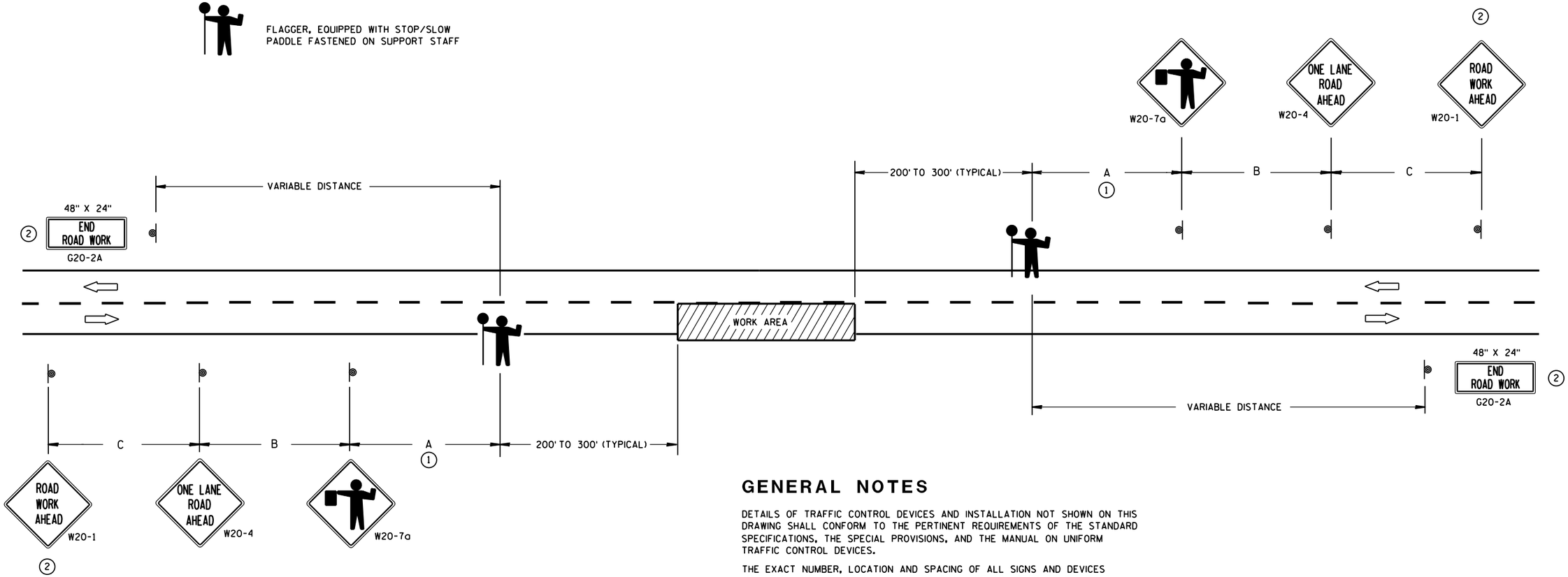
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

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

BE PREPARED TO STOP
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

ORIENT ANCHOR BOLTS IN FOOTING AND PROVIDE ANCHOR BOLT STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR BOLTS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

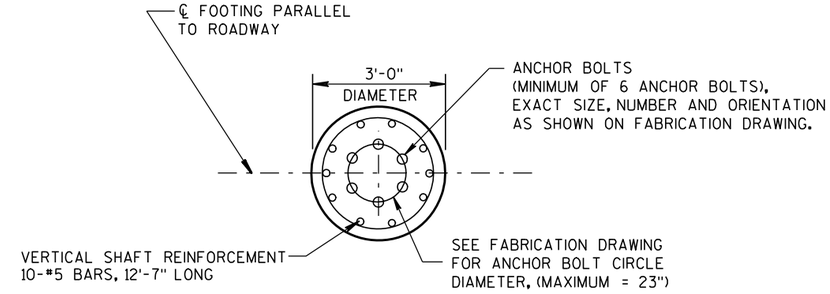
IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

THE REINFORCEMENT AND ANCHOR BOLTS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

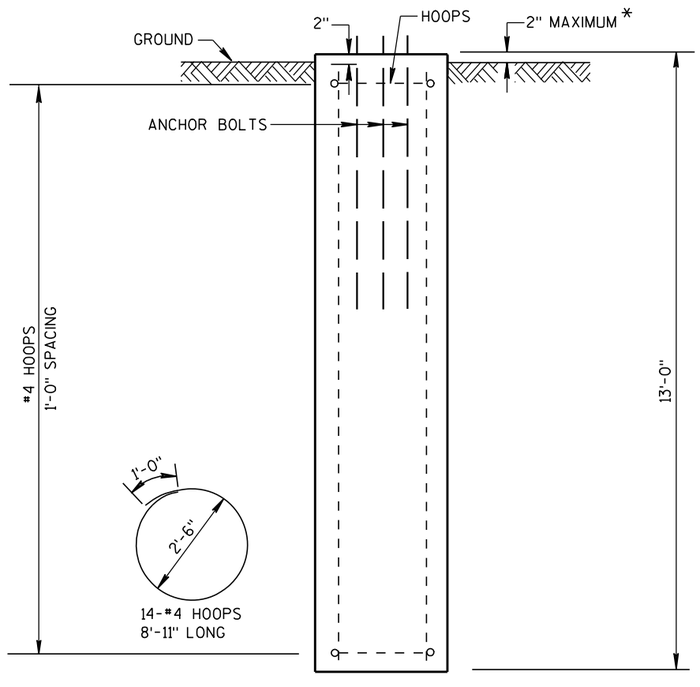
ANY DAMAGE TO THE CONCRETE BASE DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR BOLTS	AASHTO M314 GRADE 55

THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



PLAN VIEW



ELEVATION VIEW

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.

CONCRETE - 3.4 C.Y. PER FOOTING
H.S. REINFORCEMENT - 215 LBS. PER FOOTING

36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/17/09 — DATE

/S/ Thomas N. Nothdurm — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 15-3

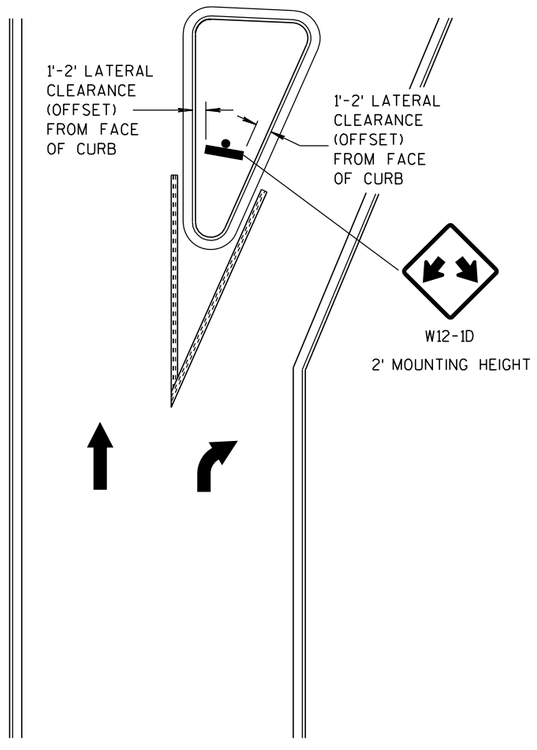
6

S.D.D. 15 C 15-3

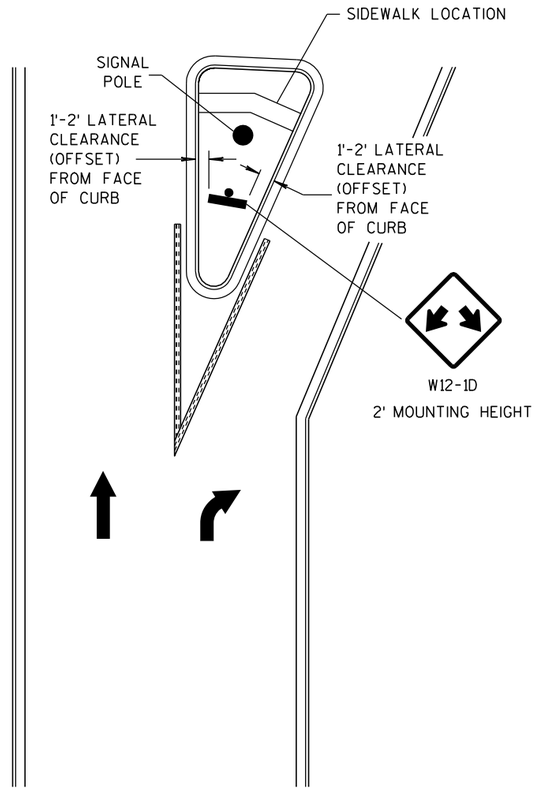
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

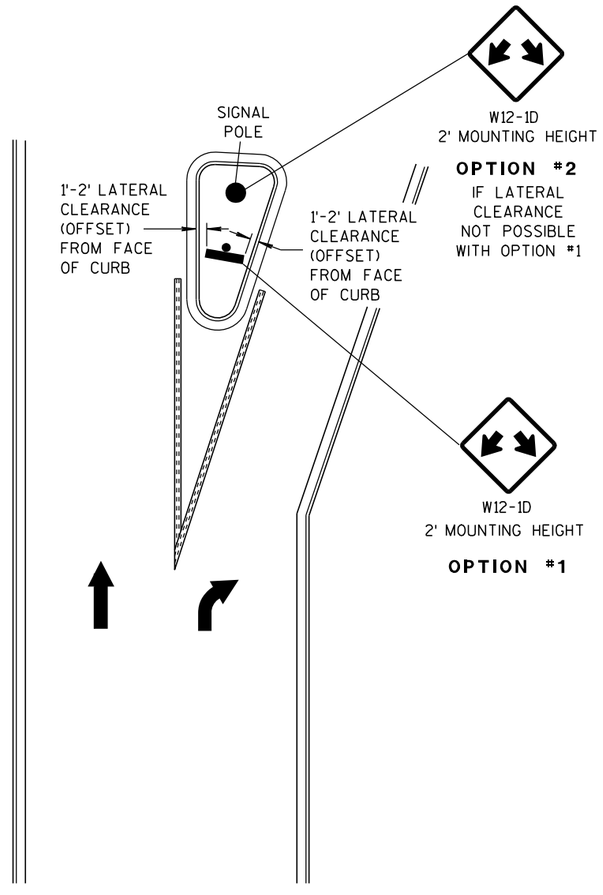
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

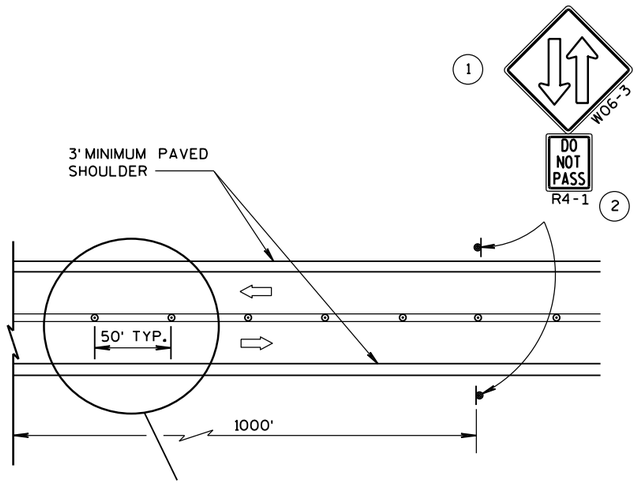
DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10-22-08 DATE	/S/ Thomas N. Nothem STATE TRAFFIC ENGINEER
FHWA	IGN

6

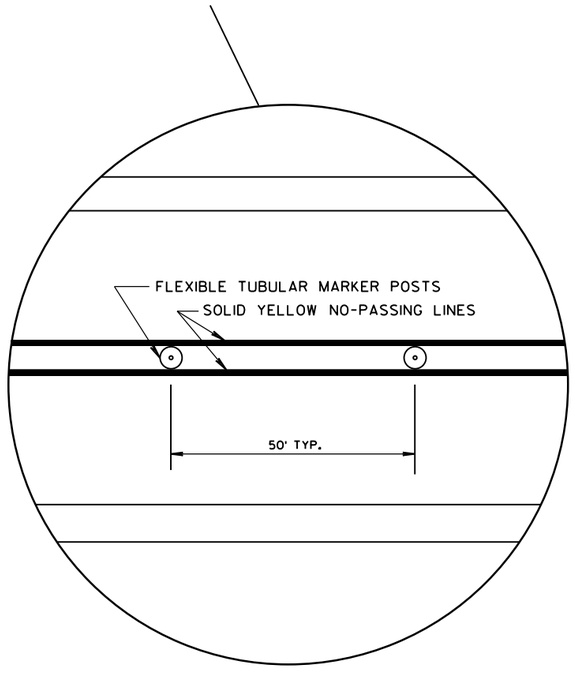
S.D.D. 15 C 27-1

6

S.D.D. 15 C 27-1



TWO LANE, TWO WAY OPERATION



LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.

(1)

W057-51
48"x24"

R4-1 (2)

THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

(2) CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

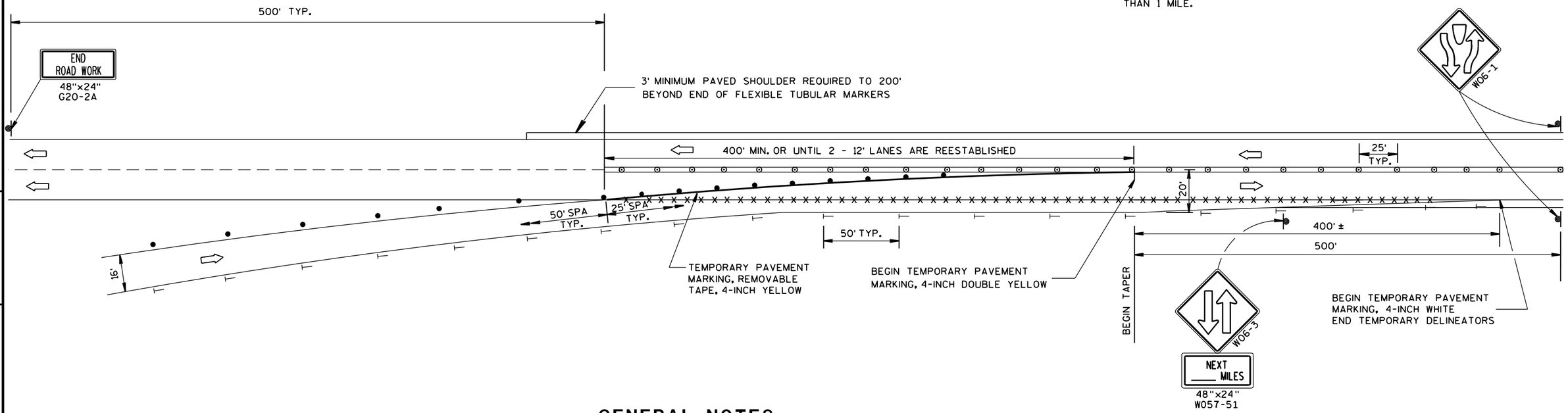
APPROVED
8/2013 DATE
/S/ Travis Feltes STATE TRAFFIC ENGINEER SIGN
FHWA

6

S.D.D. 15 D 6-3

LEGEND

- SIGN ON PERMANEMT SUPPORT
- TRAFFIC CONTROL DRUM
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- REMOVE PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC



24"x30"
R4-1

REPEAT EVERY 1/4 MILE IF PROJECT IS LONGER THAN 1 MILE.

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER.

TRAFFIC CONTROL, SINGLE LANE CROSSOVER EXIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

DESIGN

FHWA

6

S.D.D. 15 D 9-3

6

S.D.D. 15 D 9-3

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

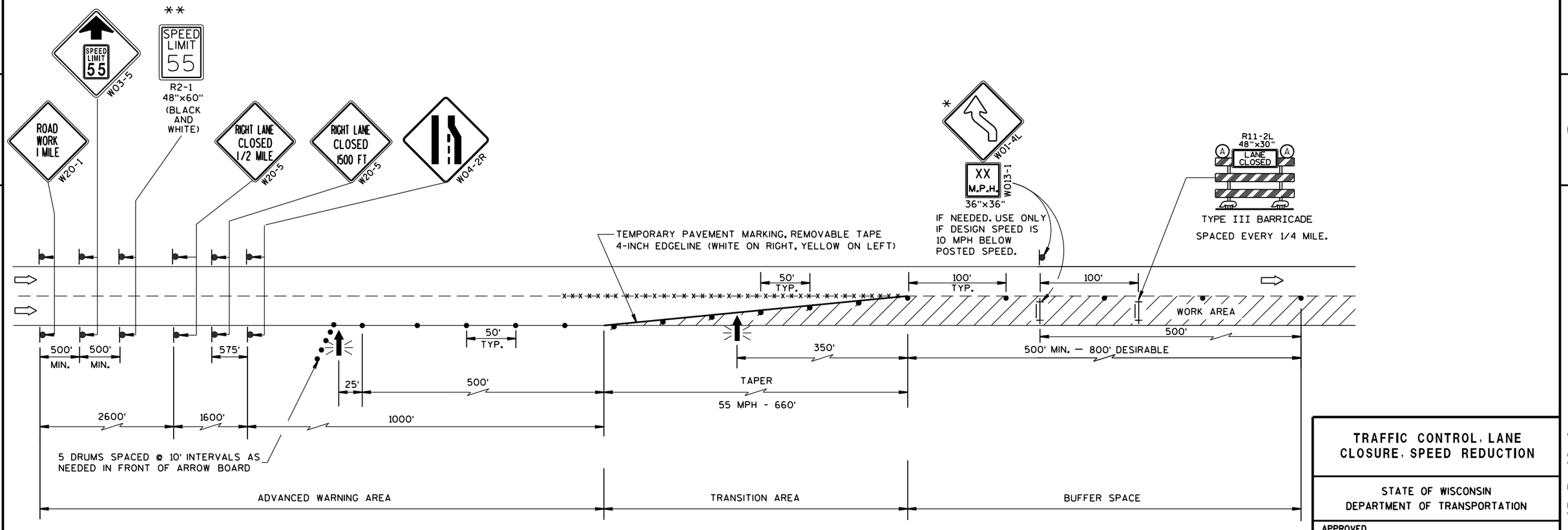
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (W01-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.

** A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES. INCLUDE A 65 MPH RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIREABLE) BEYOND THE "END OF ROADWORK" SIGN.



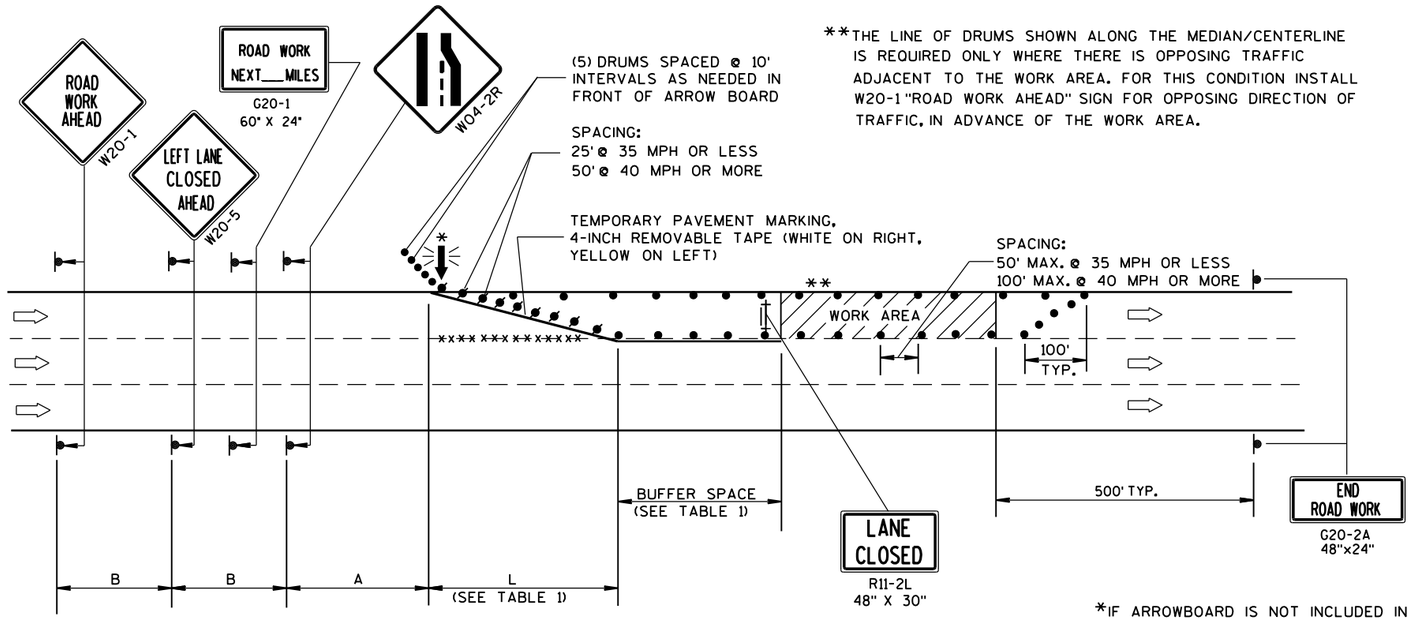
TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3-2014 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 D 12-4



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

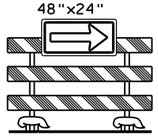


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

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

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 15 D 20-2

6

S.D.D. 15 D 20-2

LEGEND

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

GENERAL NOTES

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

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

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

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

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

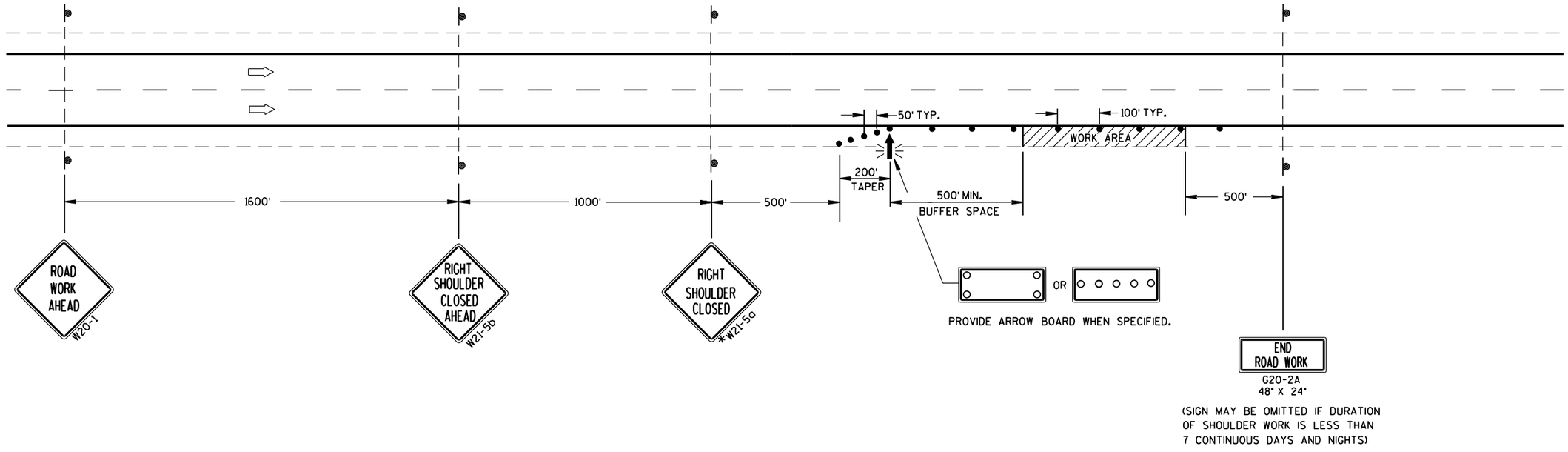
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

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



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 D 27-2

GENERAL NOTES

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

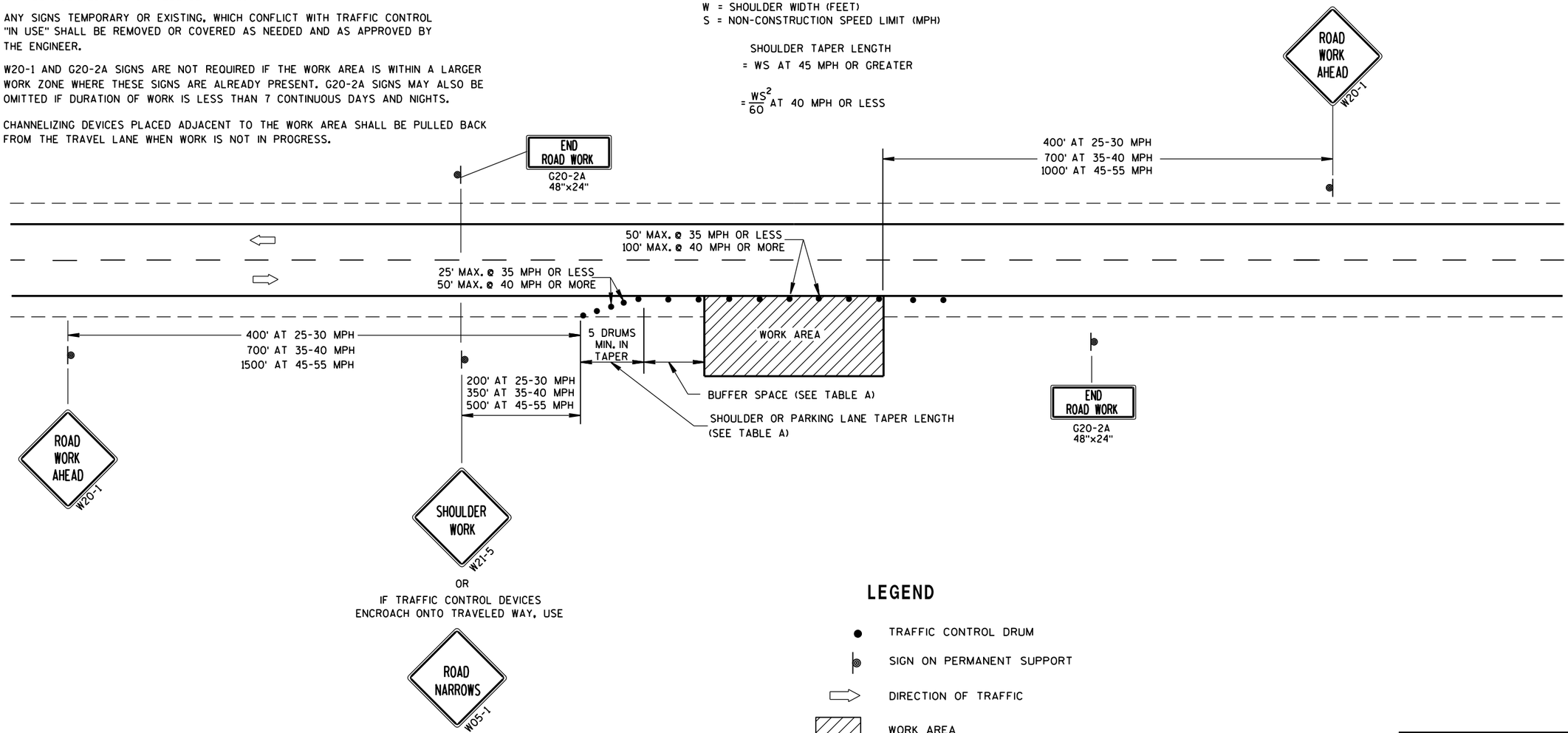
TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

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

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

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



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

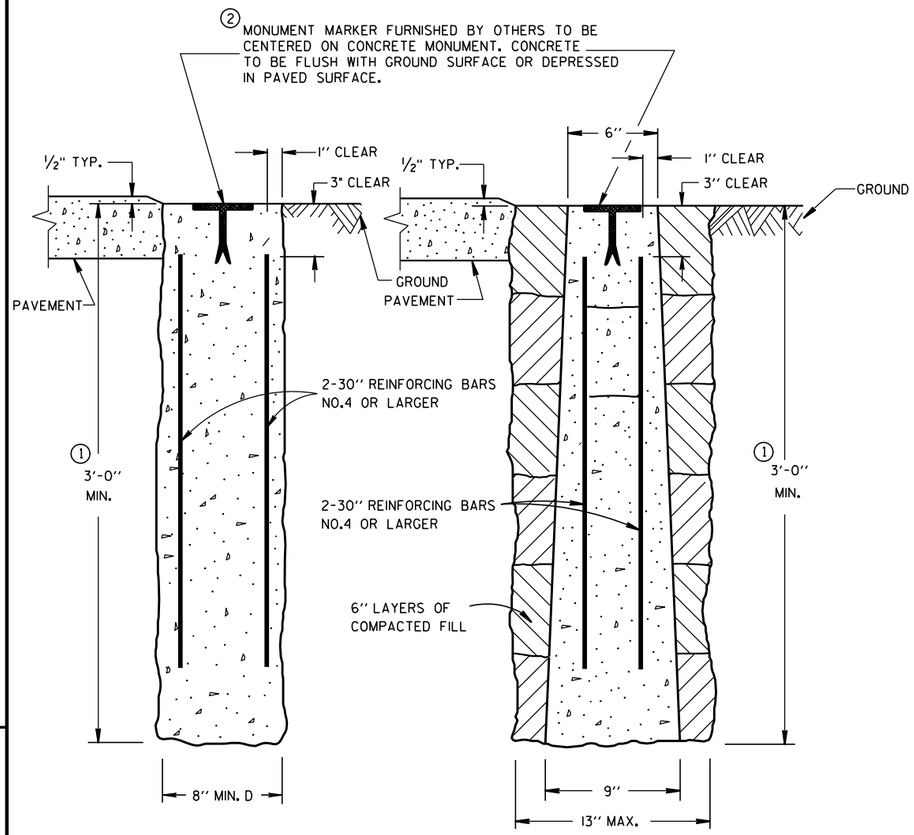
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

6

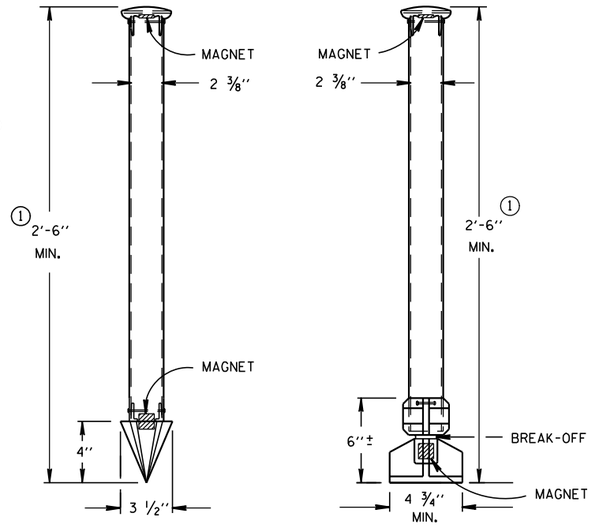
S.D.D. 15 D 28-2



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



TYPE C DRIVE-IN MONUMENT

TYPE D BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

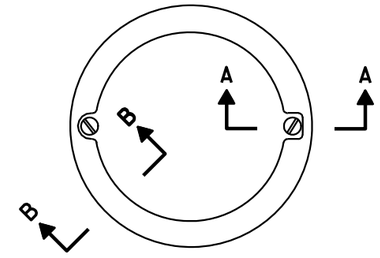
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

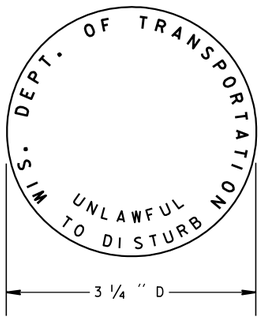
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

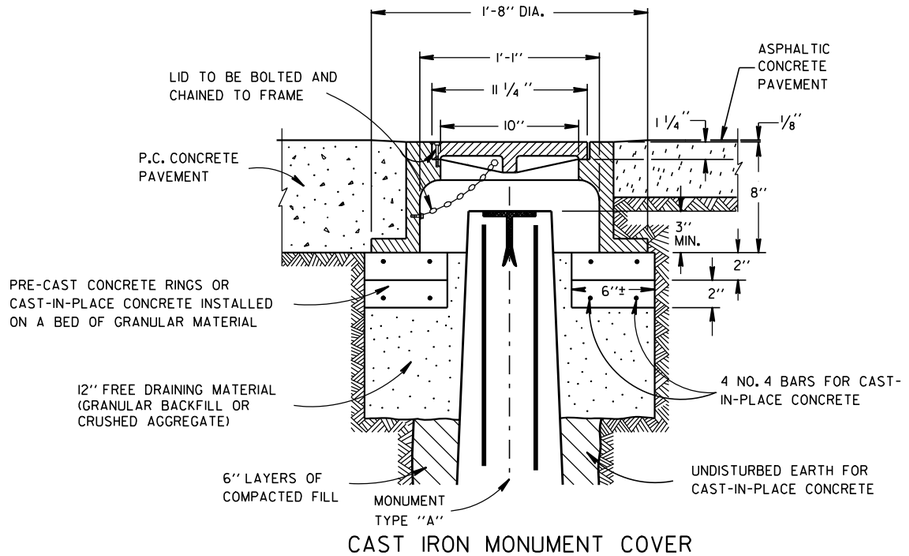
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

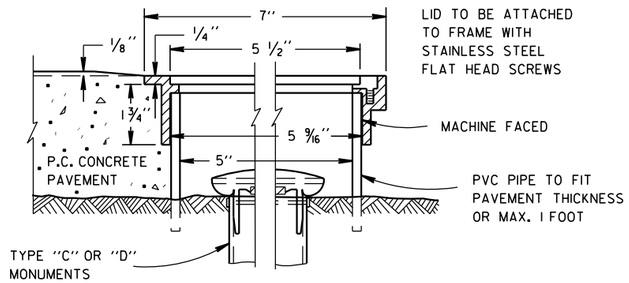


② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

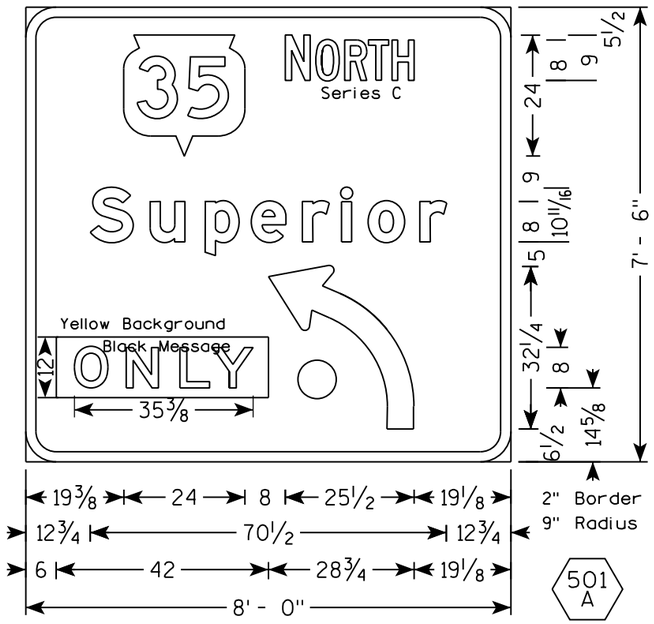
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

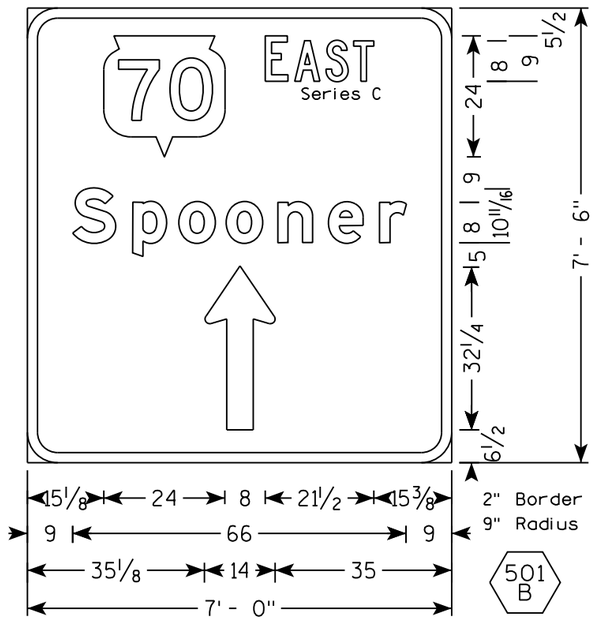
APPROVED
9/22/1999 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

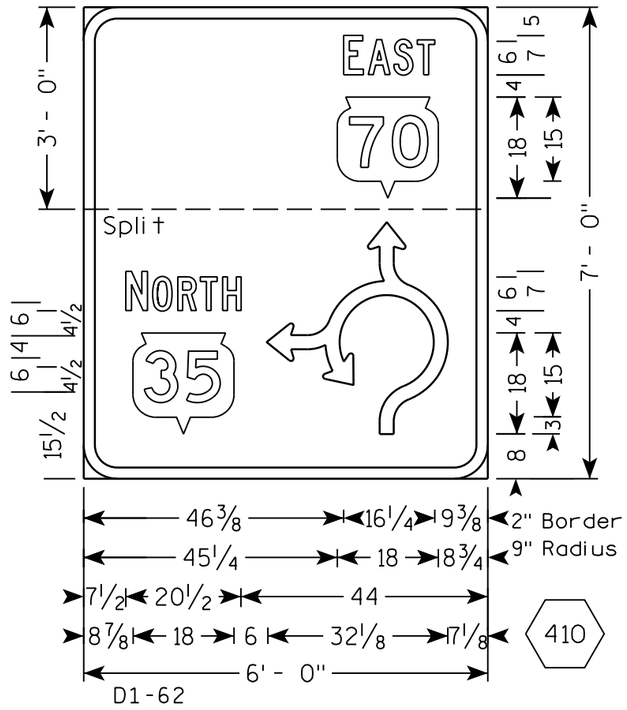
6 S.D.D. 16 A 1-6

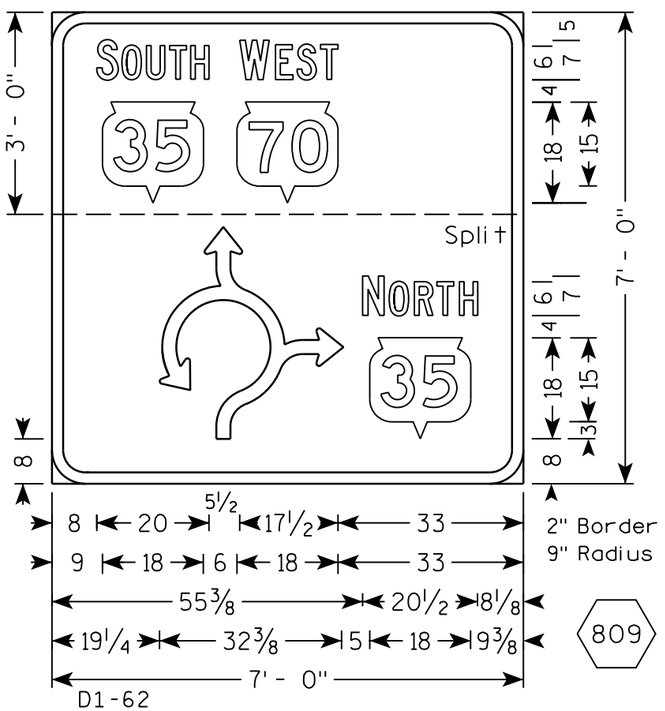
NOTES

1. All Signs are Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green except see Note 4.
   Message - White except see Note 4.
3. Message Series - E Modified except as noted
4. ONLY Plaque is Type F - Yellow Reflective with Black Message



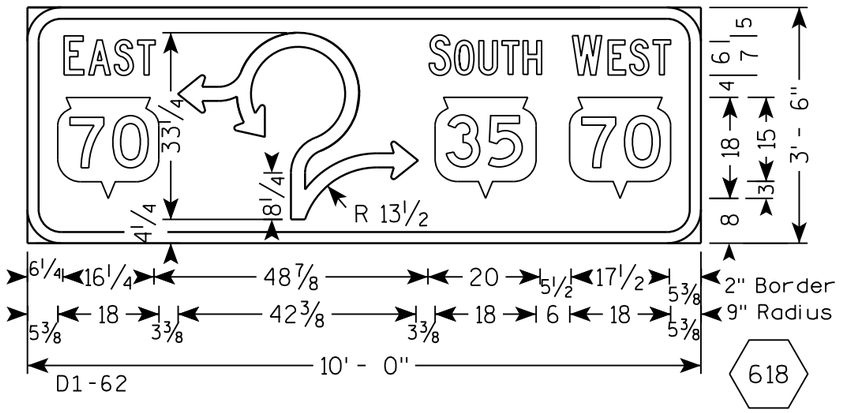






NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - C
4. For Roundabout Detail refer to Standard Plate A11-12 for dimensions.



7

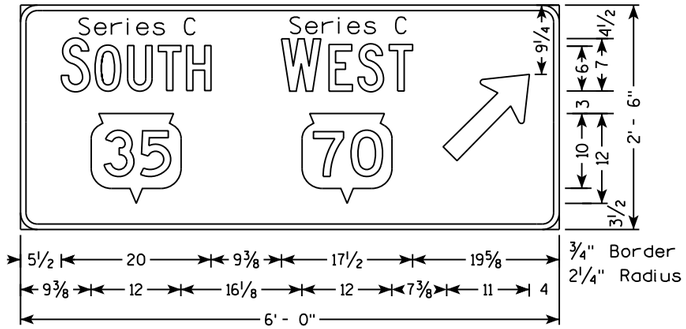
7

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PERMANENT SIGNING	SHEET NO: 221	E

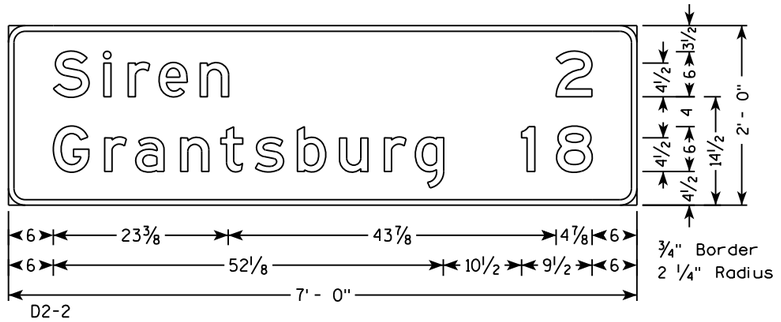
NOTES

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

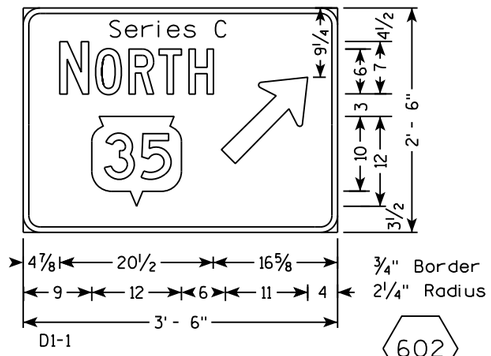
510



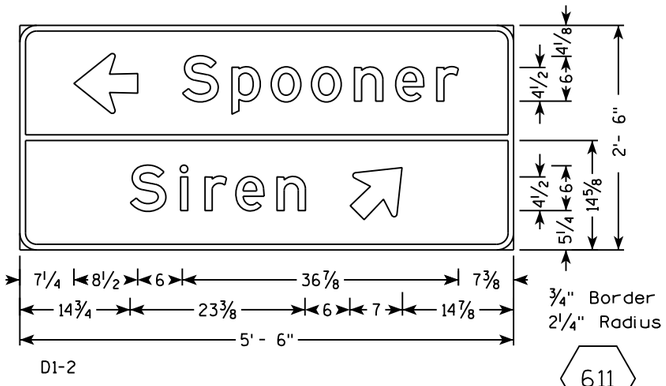
515



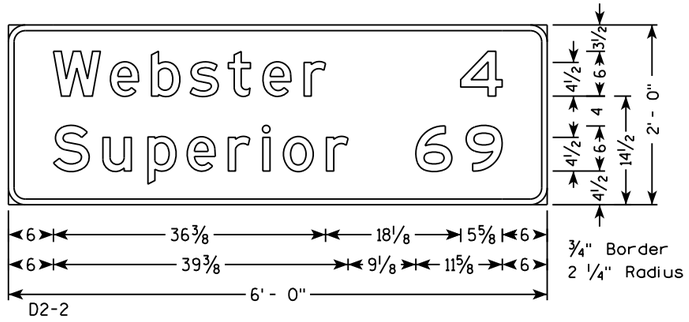
602



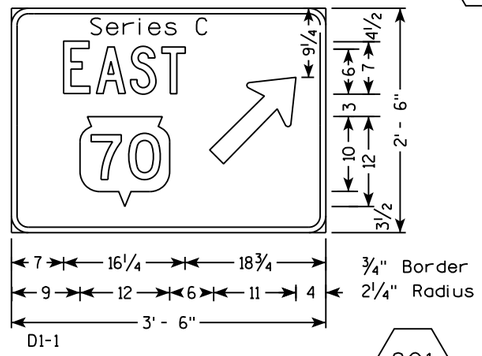
611



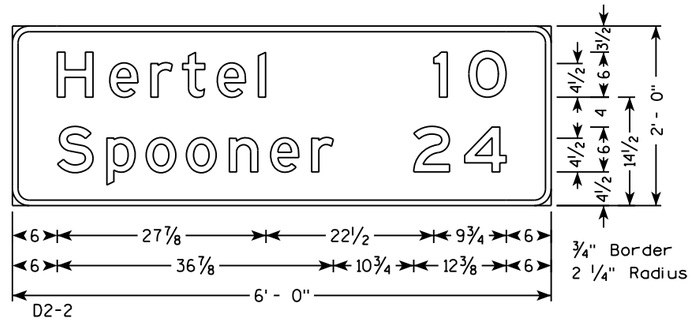
606



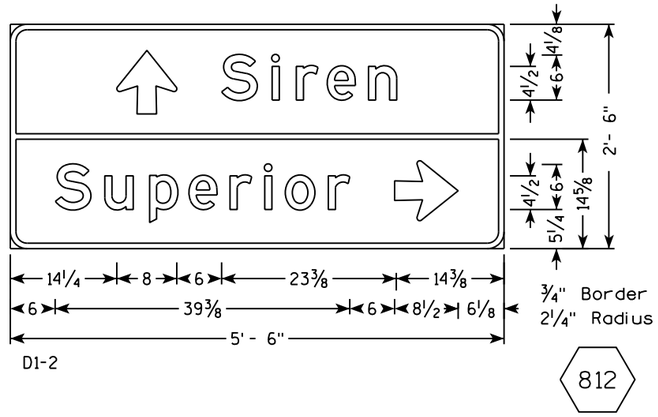
801



806



812



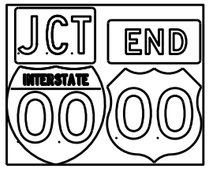
7

7

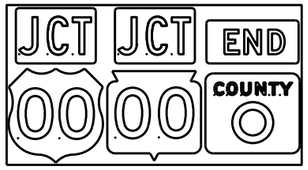
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	PERMANENT SIGNING	SHEET NO: 222	E

TYPICAL ASSEMBLIES

J1-1

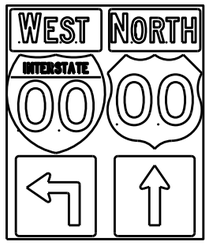


J1-2

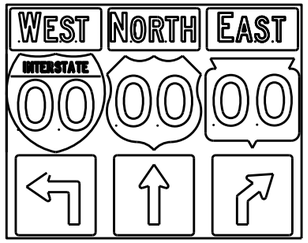


J1-3

J2-1



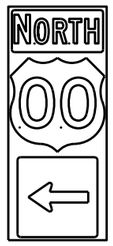
J2-2



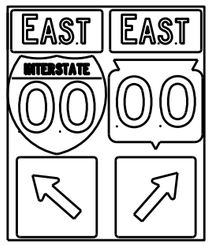
J2-3

JV

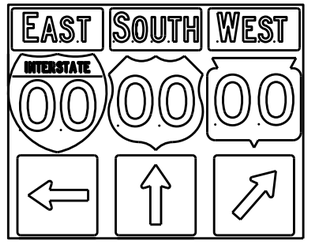
(Typical Vertical J-Assembly
See Note 10 and 11)



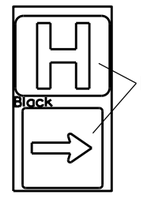
J3-1



J3-2



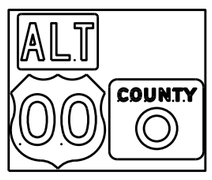
J3-3



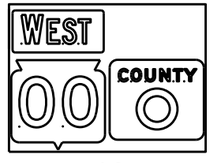
Blue Background

JH-1

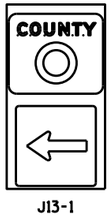
J4-1



J4-2



J4-2



J13-1

J12-1

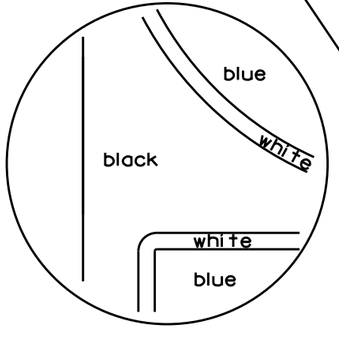
J32-1

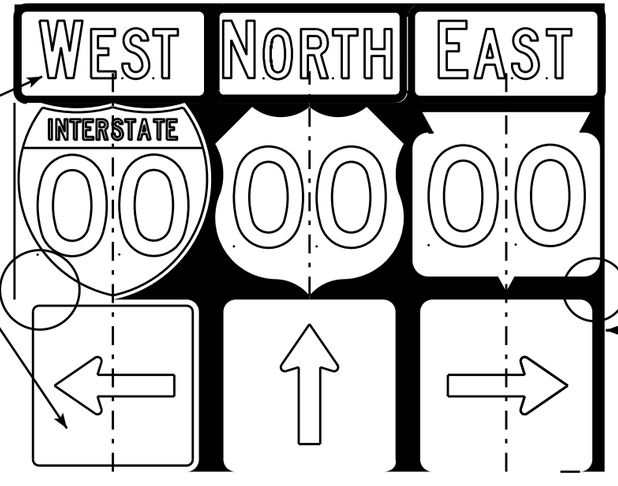
J33-1

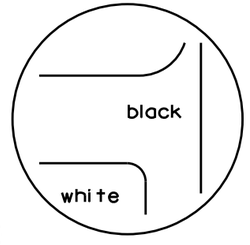
J23-1

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

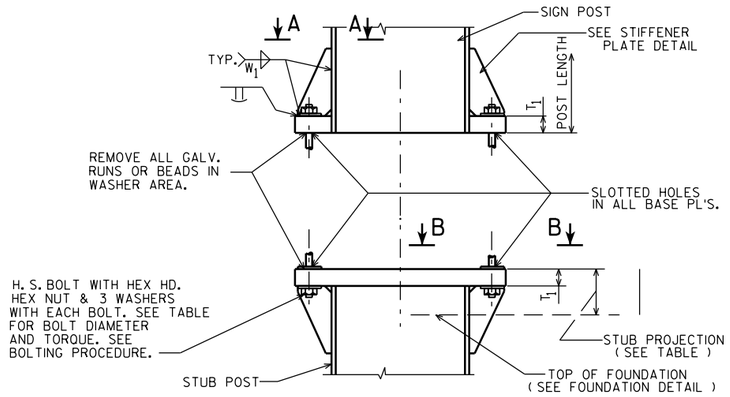
DATE 2/06/14 PL... A2-1S.8

PROJECT NO:

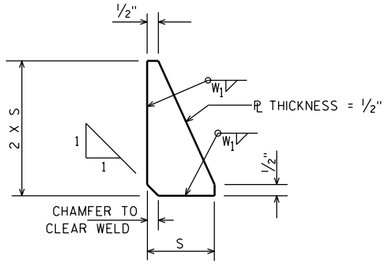
SHEET NO: E

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

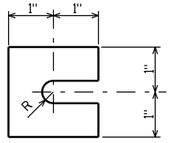


SIGN POST AND STUB POST ELEVATION



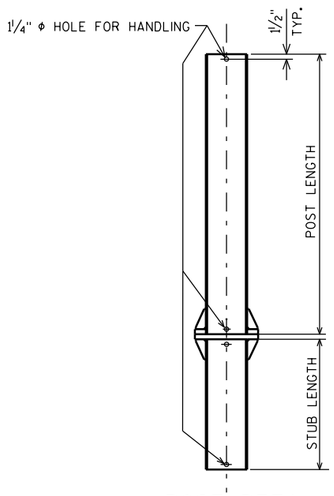
STIFFENER PLATE DETAIL

(SEE TABLE FOR DIMENSIONS)



FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M.- B36.

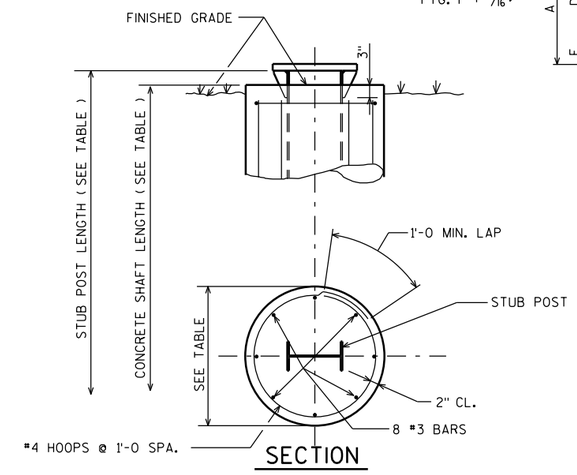
SHIM DETAIL



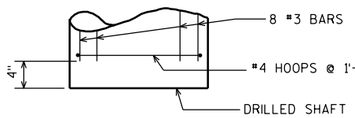
POST DETAIL

QUANTITIES FOR 1 FOOTING		
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
⑦ E	1.0	62

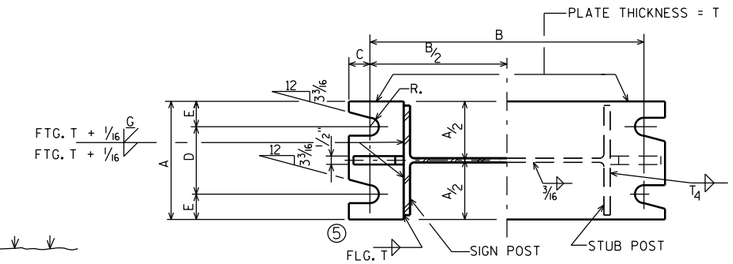
	TYPE	#3	#4
⑦ REINF.	A	8 @ 4'-5	5 @ 6'-3
	B	8 @ 6'-5	7 @ 6'-3
	C	8 @ 6'-11	7 @ 6'-3
	D	8 @ 7'-5	8 @ 6'-3
	E	8 @ 7'-11	9 @ 6'-3



SECTION

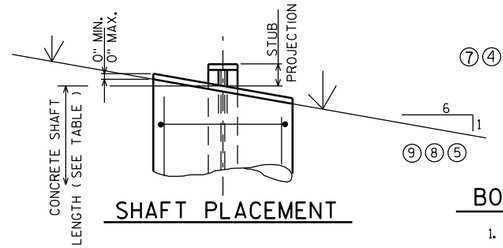


FOUNDATION DETAIL



SECTION A-A

SECTION B-B



SHAFT PLACEMENT

⑦④

DESIGN DATA

WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.

GROUP LOADS	PERCENT OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD & WIND	140
3. DEAD, ICE & ½ WIND[4]	140 [4]25 P.S.F. MIN.

ALLOWABLE SOIL PRESSURE = 1½T / SQ. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

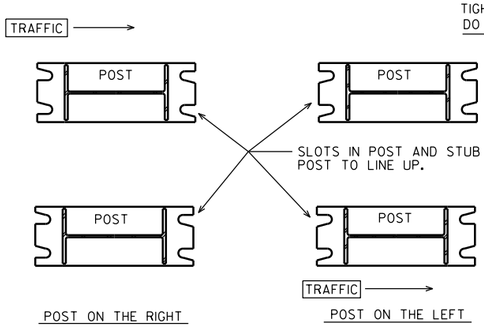
GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50.
⑨ THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
H.S. BOLTS, WASHERS & NUTS SHALL BE A325 GALVANIZED WHEN POSTS, POST STUBS AND ATTACHMENTS ARE A709 GRADE 50 AND GALVANIZED.

BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
2. SHIM AS REQ'D. TO PLUMB POST.
3. PRIOR TO BOLT TIGHTENING LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
5. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.



POST SLOT ORIENTATION ⑦

	TYPE	DIMENSION / POST SIZE	BOLT SIZE & TORQUE	A	B	C	D	E	T_1	T_4	W_1	R	S	STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	② K
④	A	W10"X12.0 #/FT.	¾" ϕ @ 75#-FT.	5¼"	1'-0⅜"	⅞"	3½"	⅞"	1"	3/16"	5/16"	13/32"	2⅛"	3'-6	3"	2'-0 ϕ	5'-0	76.0# ④
④	B	W12"X16.0 #/FT.	⅞" ϕ @ 85#-FT.	5½"	1'-4¼"	1"	3½"	1"	1¼"	¼"	5/16"	15/32"	3"	5'-6	3"	2'-0 ϕ	7'-0	146.5# ④
	C	W12"X19.0 #/FT.	⅞" ϕ @ 85#-FT.	5½"	1'-4¼"	1"	3½"	1"	1½"	5/16"	5/16"	15/32"	3"	6'-0	3"	2'-0 ϕ	7'-6	182.1#
	D	W12"X22.0 #/FT.	⅞" ϕ @ 85#-FT.	5½"	1'-4¼"	1"	3½"	1"	1½"	3/8"	5/16"	15/32"	3"	6'-6	3"	2'-0 ϕ	8'-0	210.5#
③	E	W12"X26.0 #/FT.	1" ϕ @ 90#-FT.	7"	1'-4¼"	1¼"	4"	1½"	1½"	3/8"	5/16"	17/32"	3"	7'-0	3"	2'-0 ϕ	8'-6	293.0# ③

① ⑥ ①

STRUCTURAL CARBON STEEL PAY WTS. (1 POST) = K+ (POST LENGTH X POST WT.)
" K " INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch for State Traffic Engineer
DATE 2/06/14 PLATE NO. A3-1.14

NO.	DATE	REVISION
⑩	1-21-14	LUBRICATION OF BASE BOLTS
⑨	4-26-11	REMOVE NON-GALVANIZED
⑧	10-30-96	NOT GALVANIZED/GALVANIZED
⑦	10-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
⑥	8-24-87	BASE CONN. WELD
⑤	10-13-81	BASE CONN. WELD & FUSE ℄ WASHERS
④	10-19-79	POST A & B, A572 GR. 50, & K
②	11-28-78	"K" ③ 4-23-79 TYPE "E"
①	5-4-78	T_1 , T_2 & W_1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

TYPE A, B, C, D, & E

CONST. SPEC. 2011	DRAWN BY JPH	PLANS CK'D.

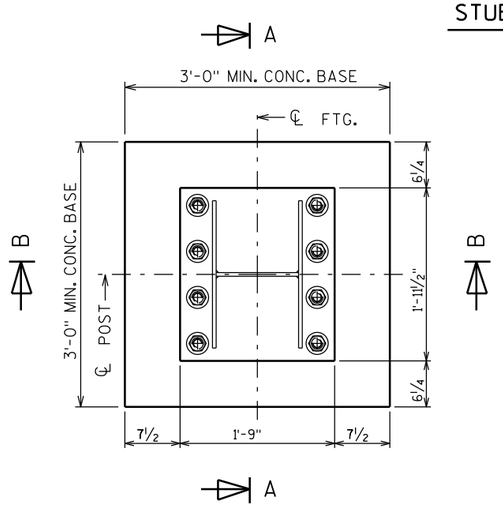
FTG. & SIGN SUPPORT DETAILS GROUND MOUNT BREAK-AWAY SIGNS

SHEET 224

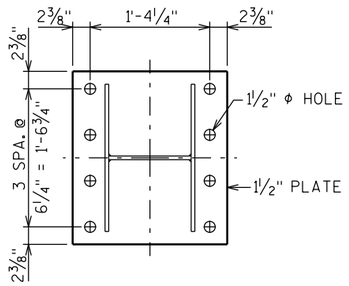
PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A31.DGN PLOT DATE : 06-FEB-2014 12:30 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 85617.058824:1.000000 WISDOT/CADDS SHEET 42

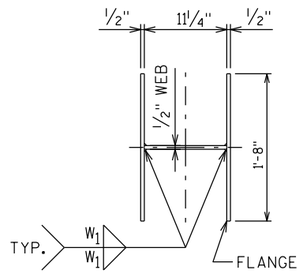
STUB AND MASONRY ANCHOR DETAILS



STUB SECTION



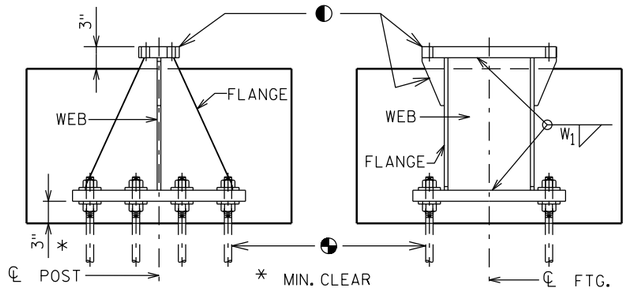
BASE PLATE



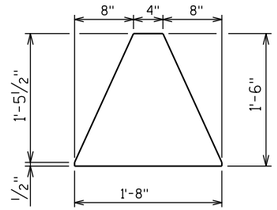
STUB

◐ SEE PLATE NO. A3-1 FOR DETAILS

◒ MASONRY ANCHORS TYPE S 1¼-INCHES (ADHESIVE). ALLOWABLE PULL OUT CAPACITY 14,995 KIPS. EMBED 1'-3" IN ROCK.



SECTION A SECTION B



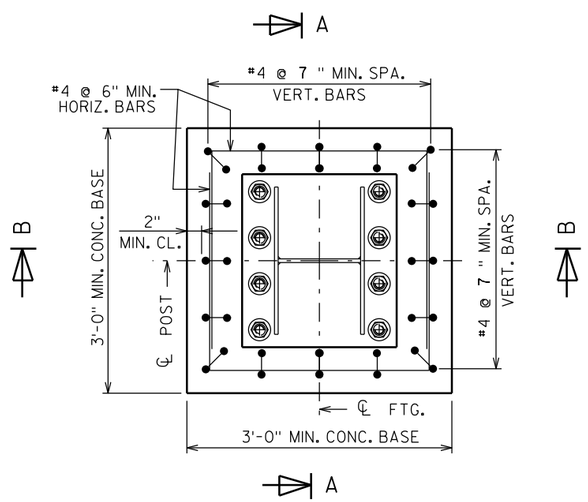
FLANGE

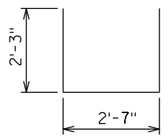
GENERAL NOTES

1. Quantities per Base:
   - REINFORCING BAR STEEL = 62 LBS
   - CONCRETE = 0.6 C.Y.
   - STEEL WEIGHT = 335 LBS
2. All materials, except anchor rod, nuts and washers, are to be A.S.T.M. A709 grade 50. All materials to be galvanized after fabrication.
3. If the contractor encounters rock before reaching the footing depth, per the A3-1 Sign Detail, determine the pull-out capacity of a test adhesive anchor installed in the rock. If the test result equals or exceeds the pull-out capacity of 14,995 KIPS, the contractor may install the breakaway stub for rock, according to this detail.

CONCRETE BASE AND REINFORCING STEEL DETAILS

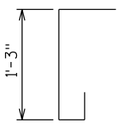
CONCRETE BASE SECTION





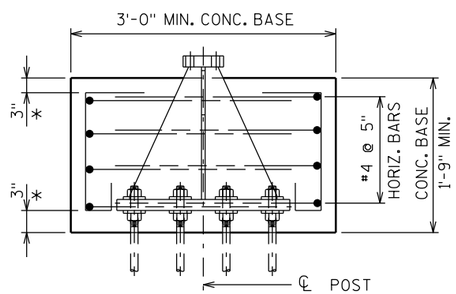
HORIZONTAL BAR

8 BARS @ 6'-11" LENGTH



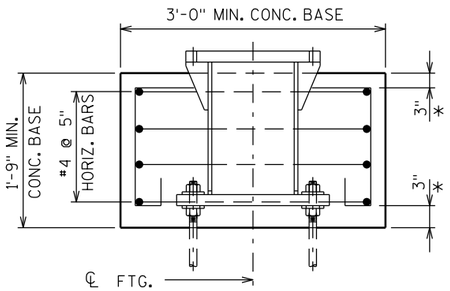
VERTICAL BARS

16 BARS @ 2'-4" LENGTH
MAY BE PLACED IN SKEW
FOR CLEARANCE NEED



SECTION A

* MIN. CLEAR



SECTION B

ALTERNATE BREAK-AWAY BASE ON ROCK
A3-1M

WISCONSIN DEPT OF TRANSPORTATION

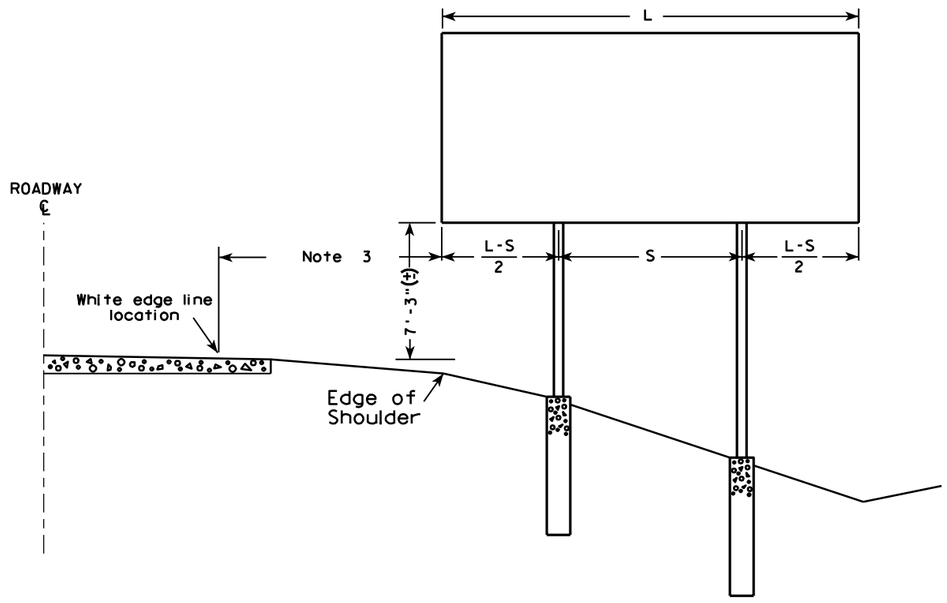
APPROVED Matthew R Rauch for State Traffic Engineer

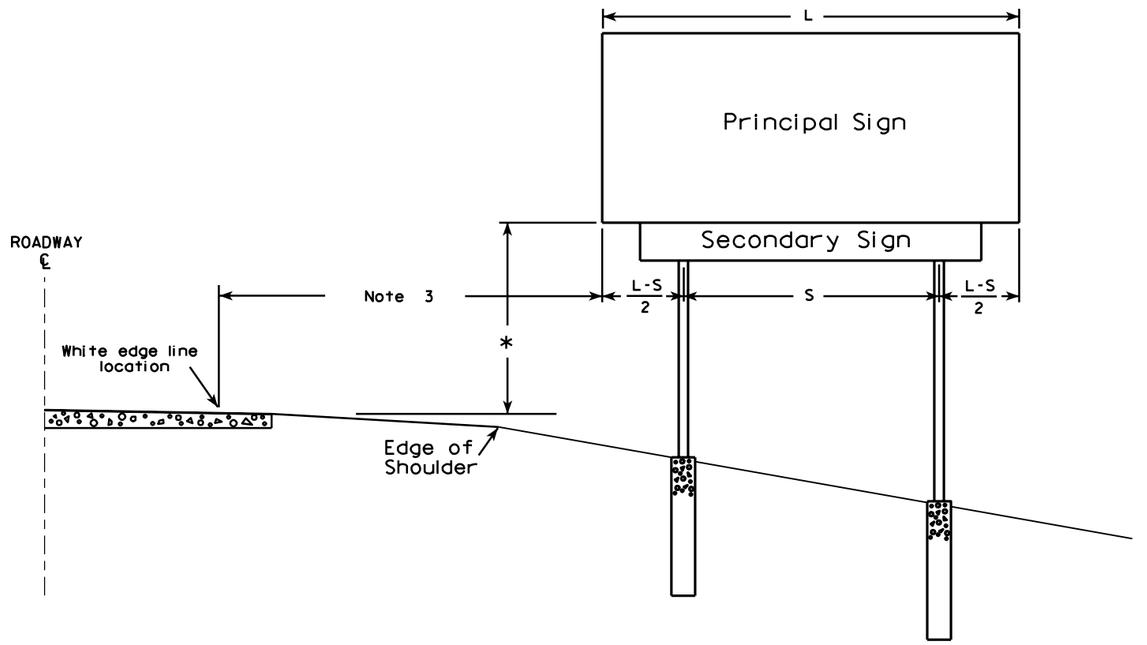
DATE 2/06/2014 PLATE A3-1M.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A31M.DGN PLOT DATE : 10-MAR-2014 15:16 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.556674:1.000000

WISDOT/CADDS SHEET 42





GENERAL NOTES

1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
4. The (±) tolerance shown on this sheet is 3 in.
5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.

* Clearance is 8'-3"(±) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3"(±).

7

7

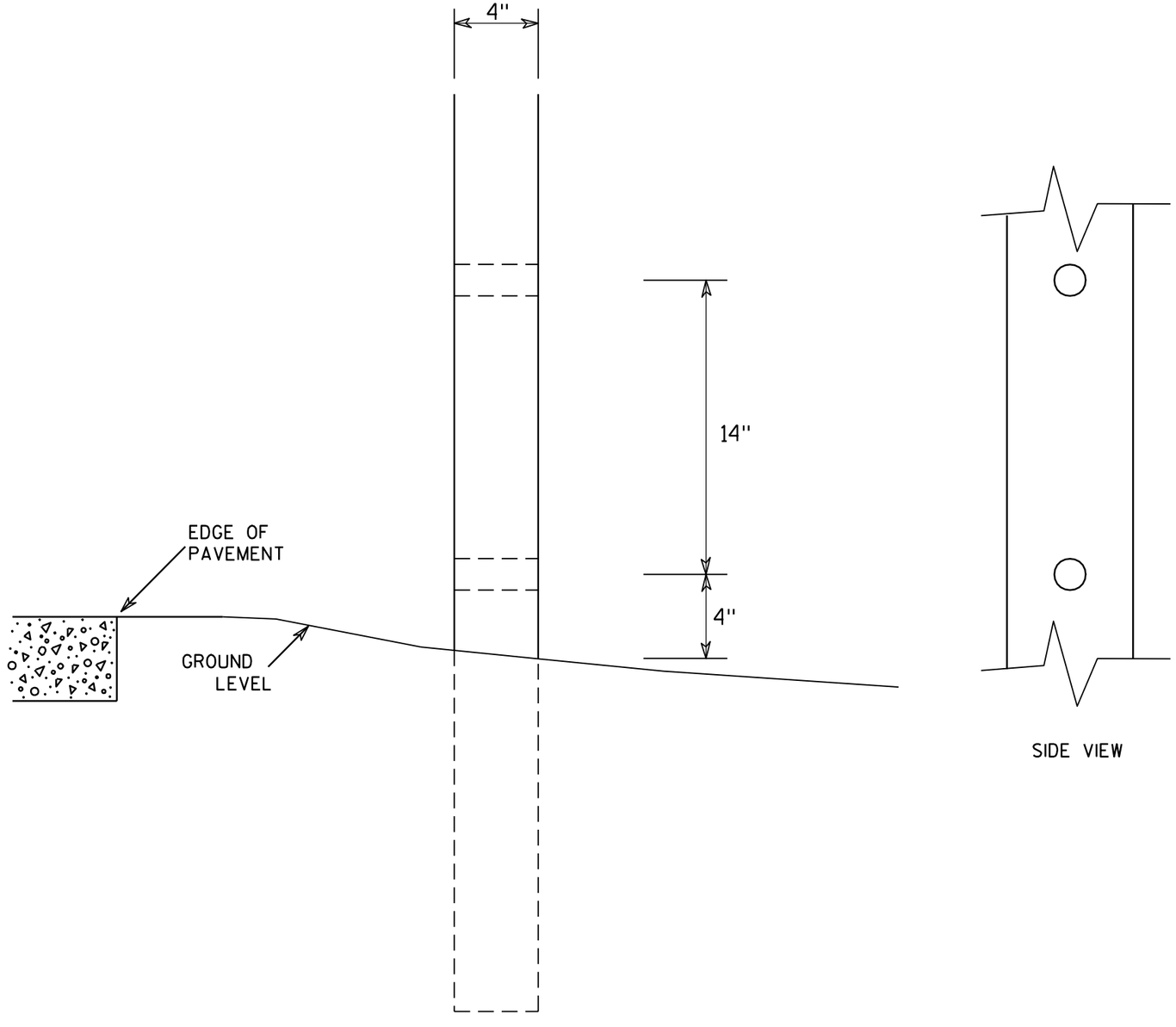
TYPICAL INSTALLATION
OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/02/08 PLATE NO. A4-1.9

PROJECT NO:				SHEET NO: 226	E



SIDE VIEW

GENERAL NOTES

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

4 X 6 WOOD POST MODIFICATIONS

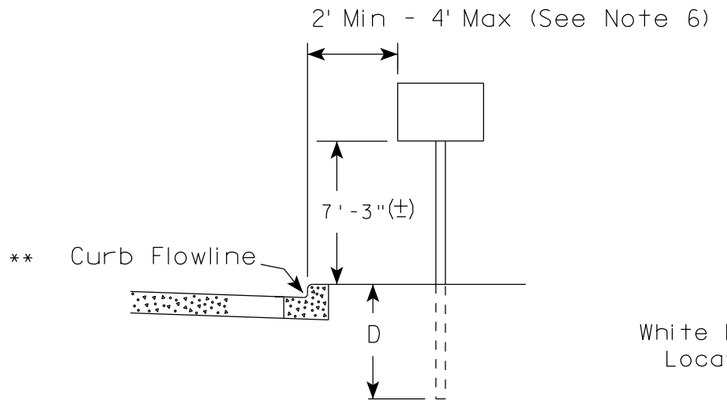
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

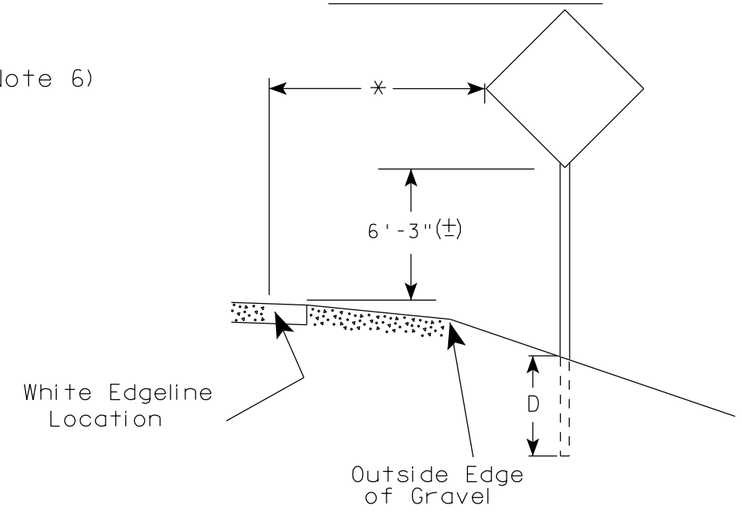
DATE 3/27/97 PLATE NO. A4-11.2

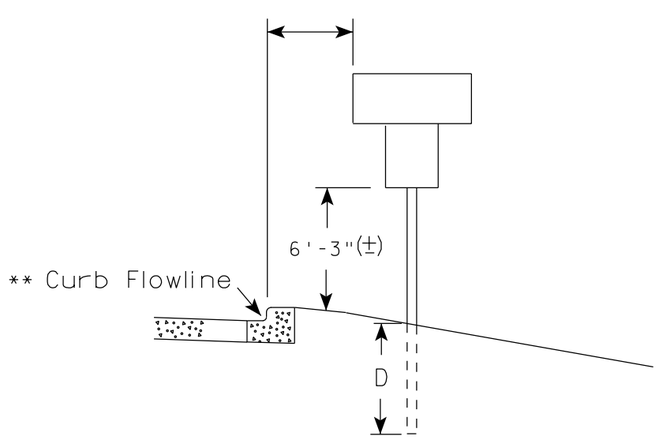
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 227	E

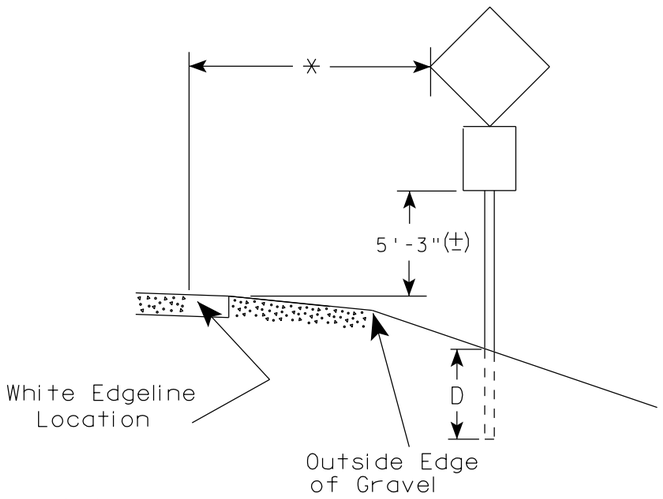
URBAN AREA



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

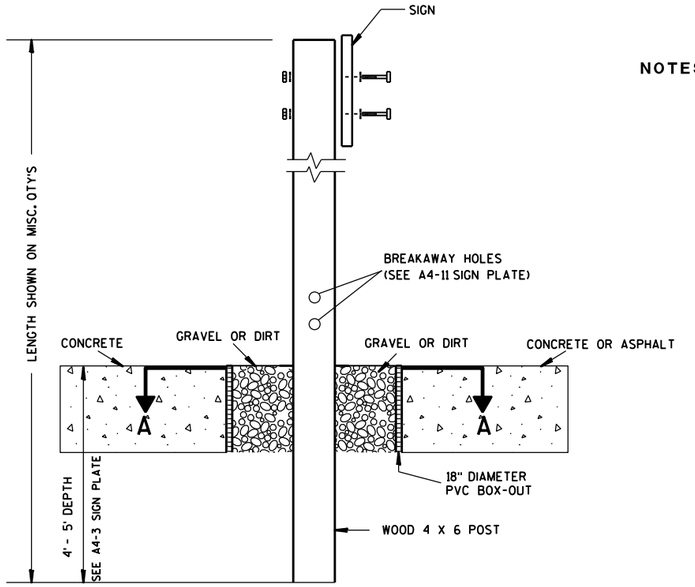
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7

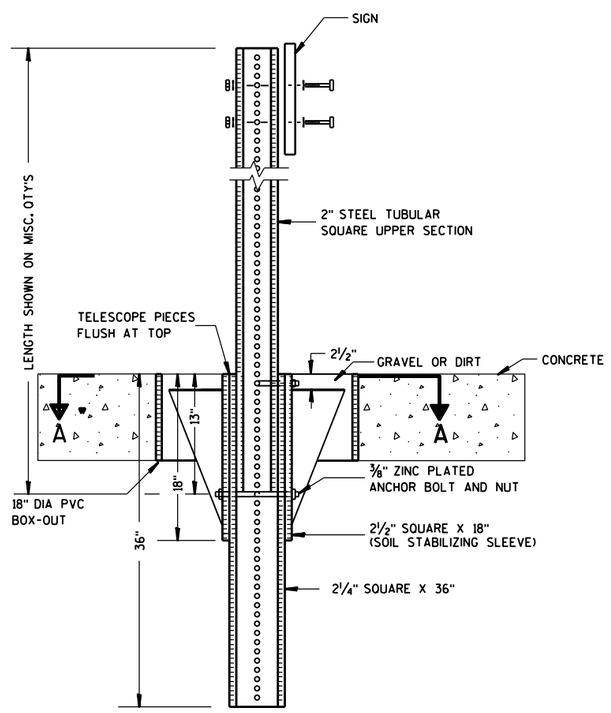
7



ELEVATION VIEW

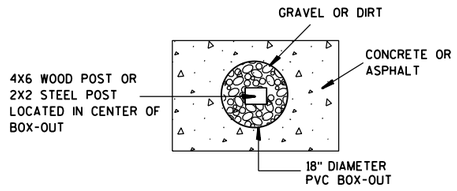
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

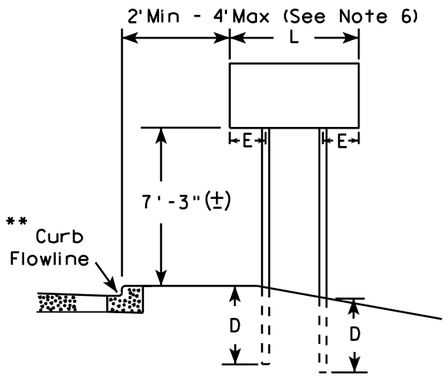
APPROVED Matthew R Rauch
for State Traffic Engineer

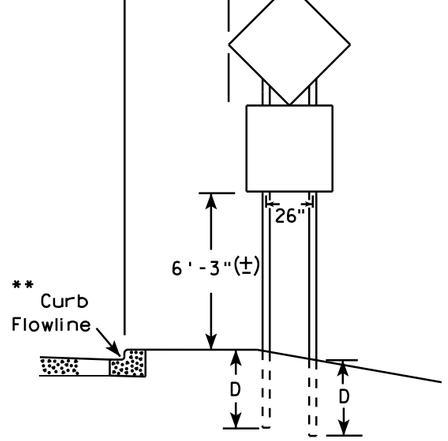
DATE 1/27/14 PLATE NO. A4-3B.1

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

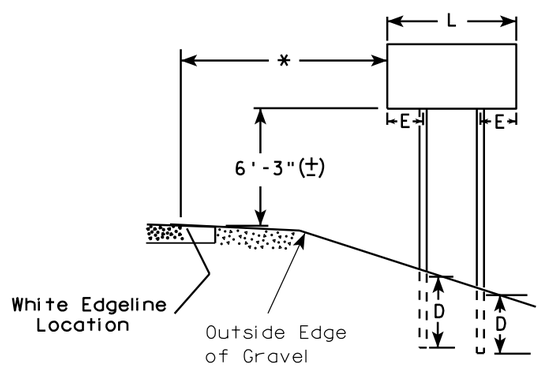
URBAN AREA

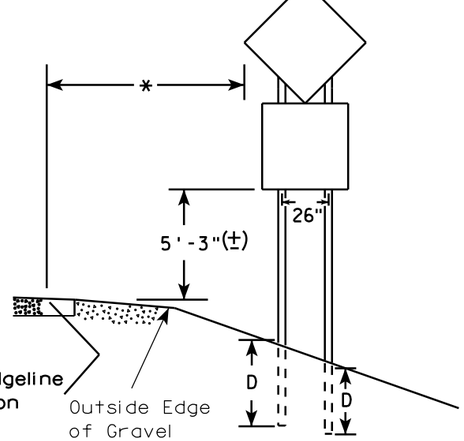




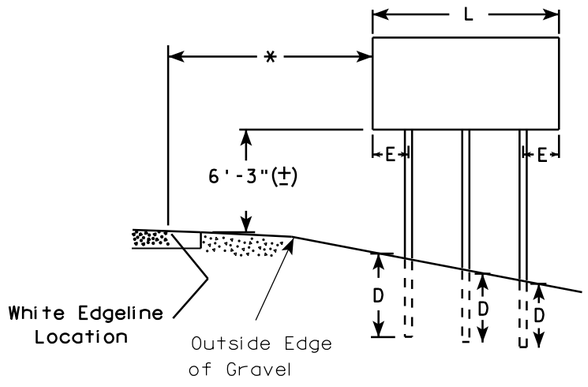
48" DIAMOND WARNING SIGN

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 less than 20 S.F. in area.

***

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

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

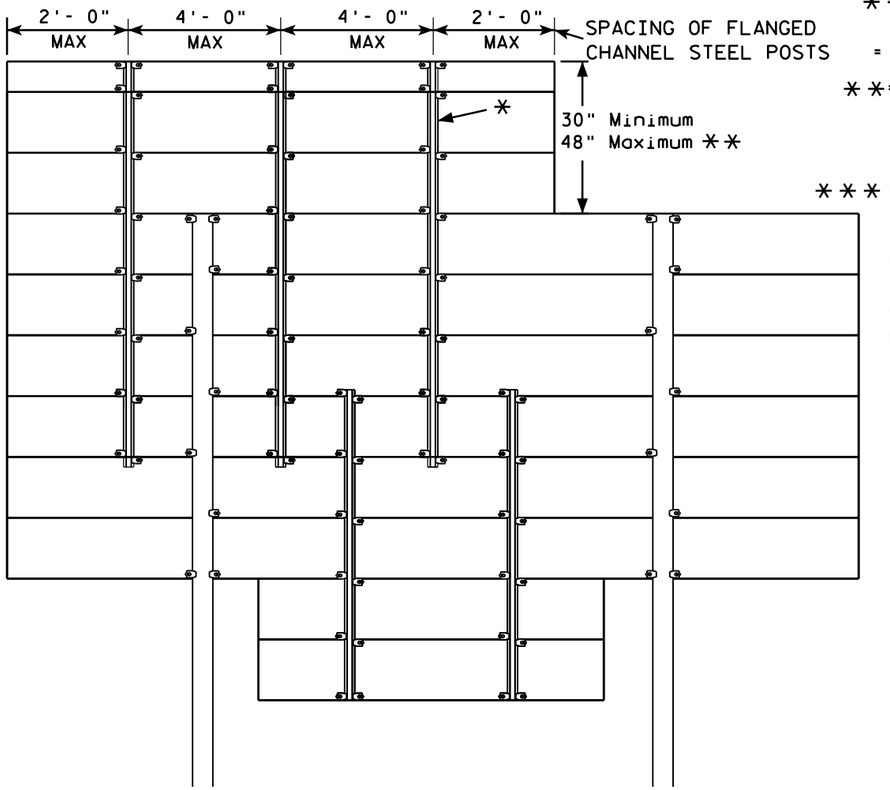
DATE 4/29/14 PLATE NO. A4-4 13
230

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 30-APR-2014 13:10 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 107.021305:1.000000

7 7

GROUND MOUNTED SIGN

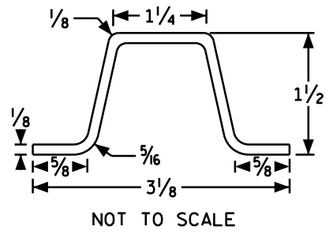


* =2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

** =FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

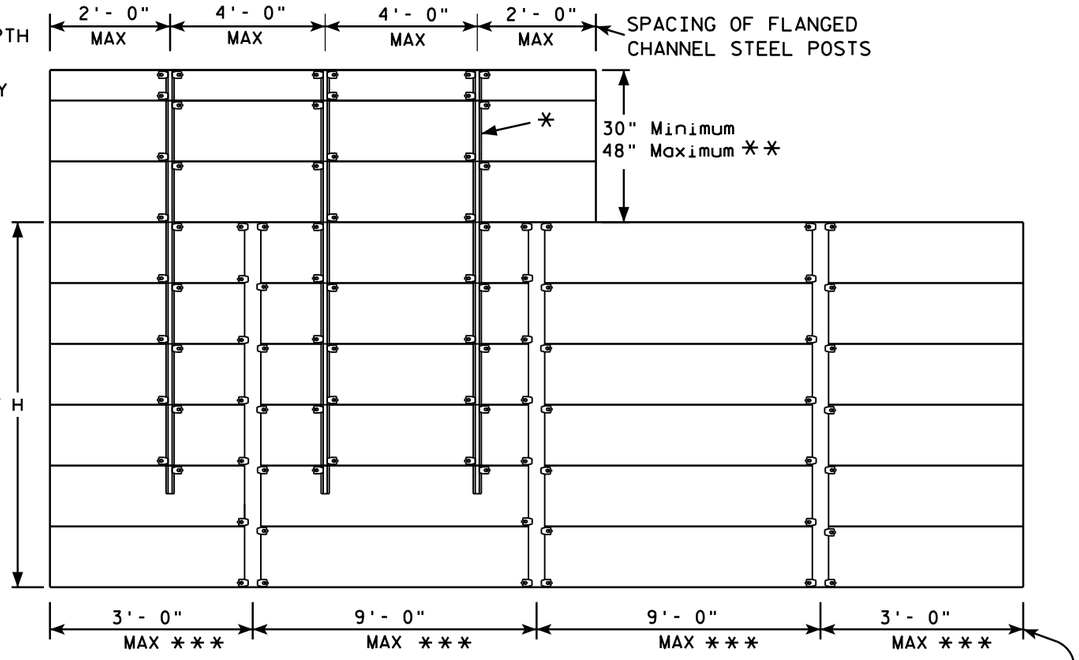
*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

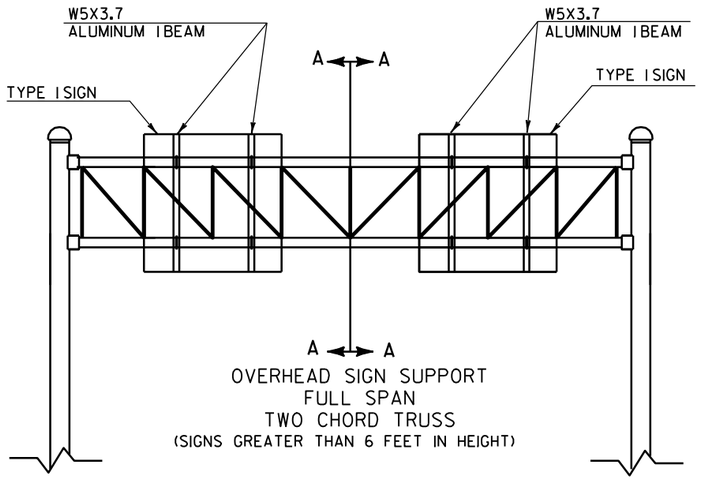
ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

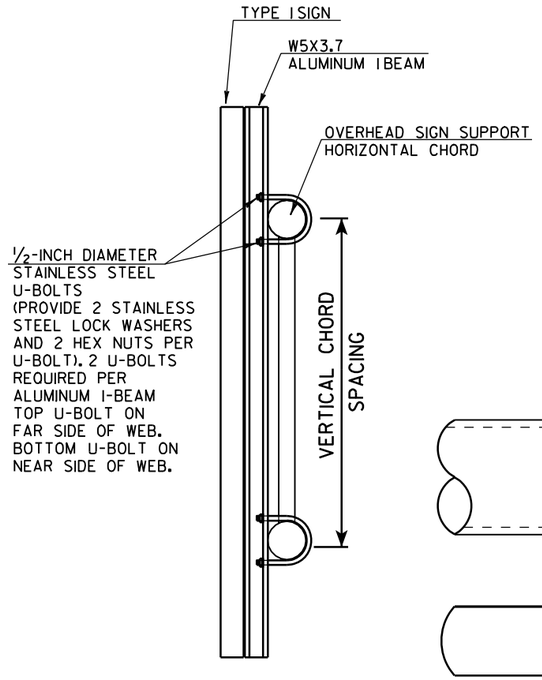
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/05/13 PLAT 231 A4-6.12

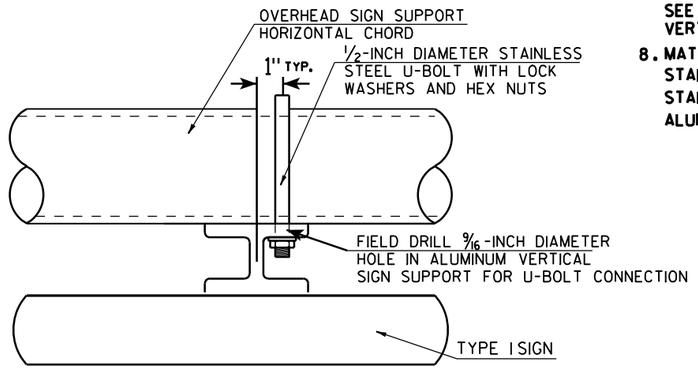
PROJECT NO: | SHEET NO: E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



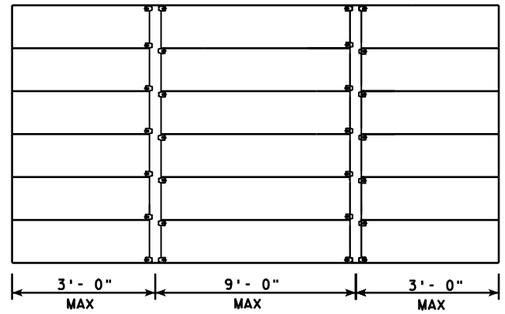
CUT SECTION A-A



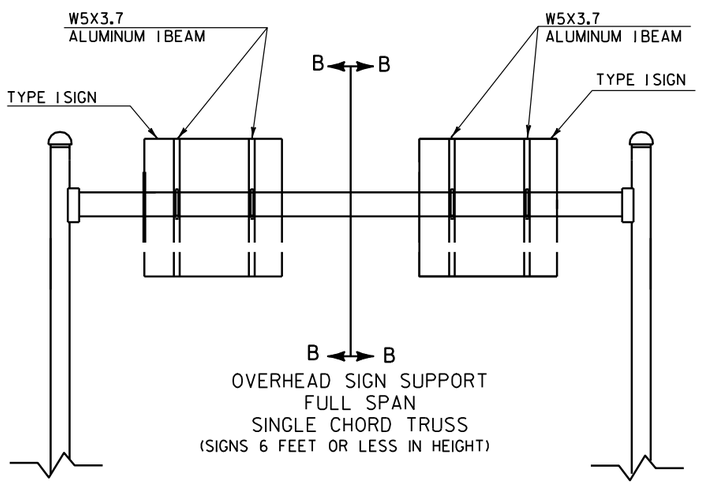
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

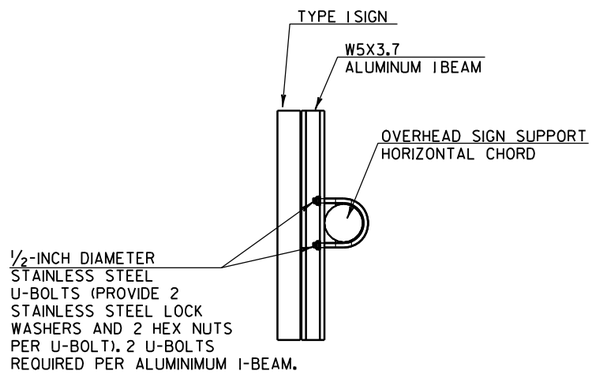
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.



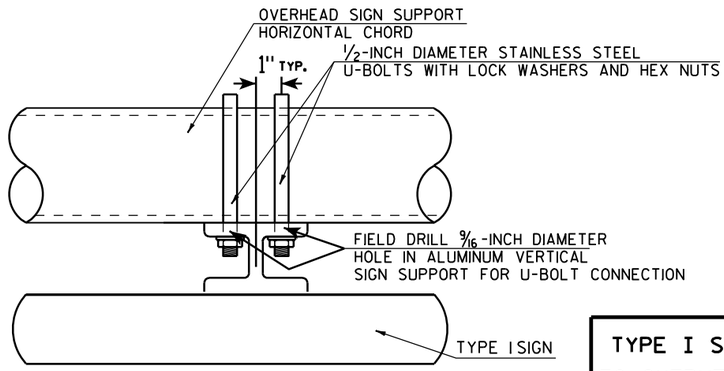
SPACING OF W5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
SINGLE CHORD TRUSS
(SIGNS 6 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
SINGLE CHORD TRUSS
PLAN VIEW

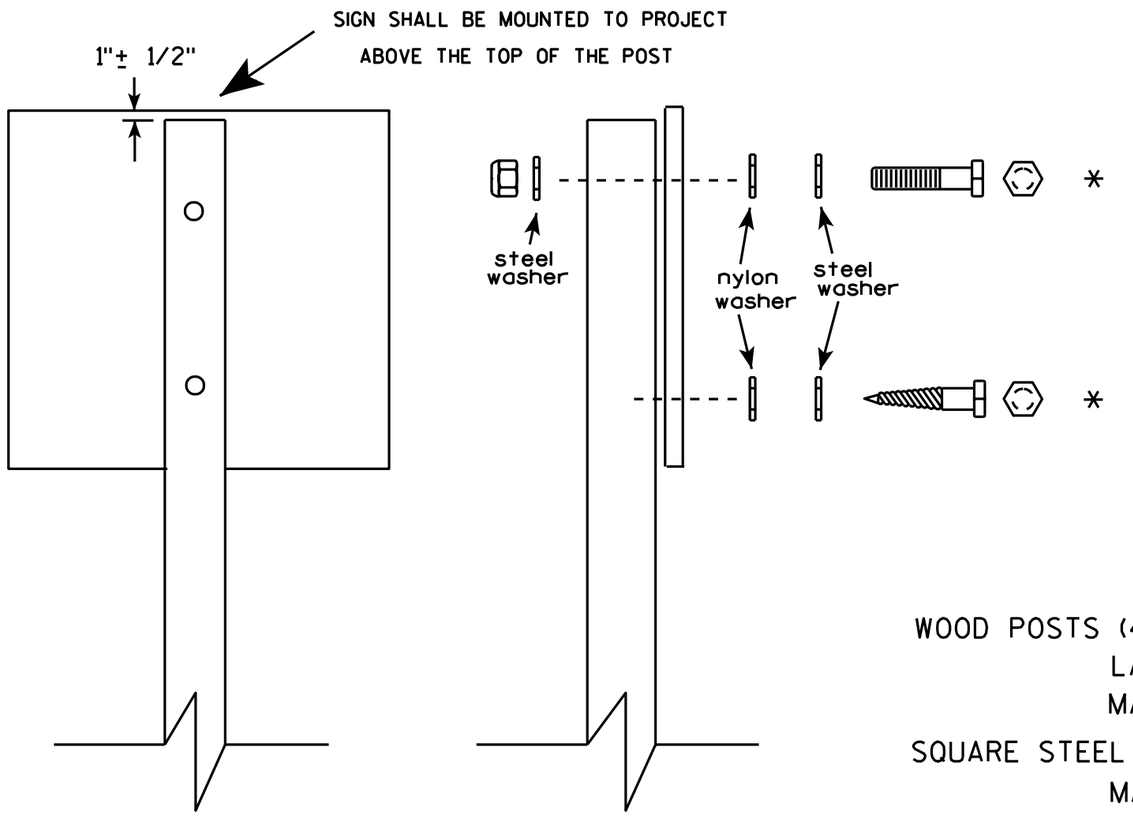
TYPE I SIGN CONNECTION TO OVERHEAD SIGN SUPPORT

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/12/12 PLATE NO. A4-7.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 232	E



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

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

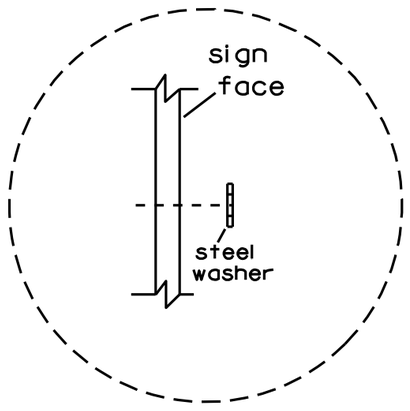
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

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

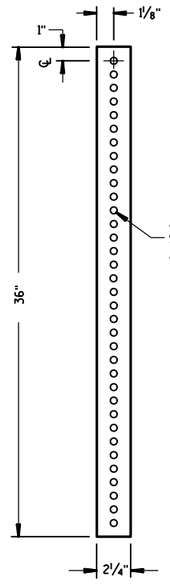
7

7

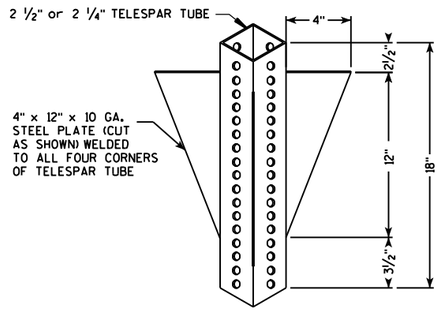
PROJECT NO: | SHEET NO: 233 | E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

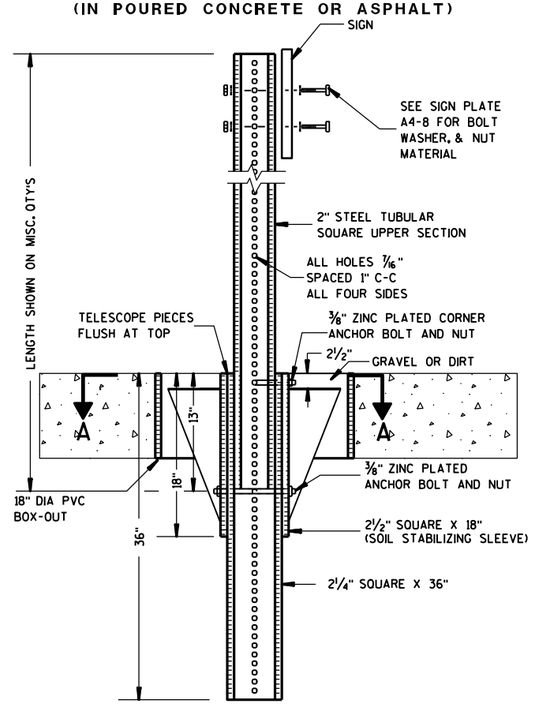
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



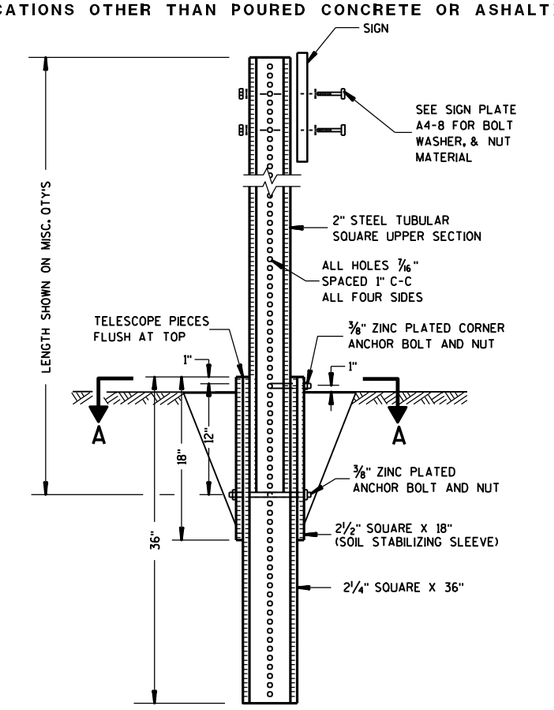
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

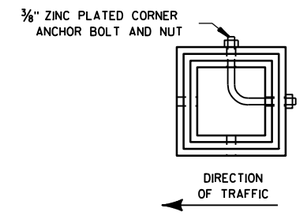


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL SIGN POST A4-9

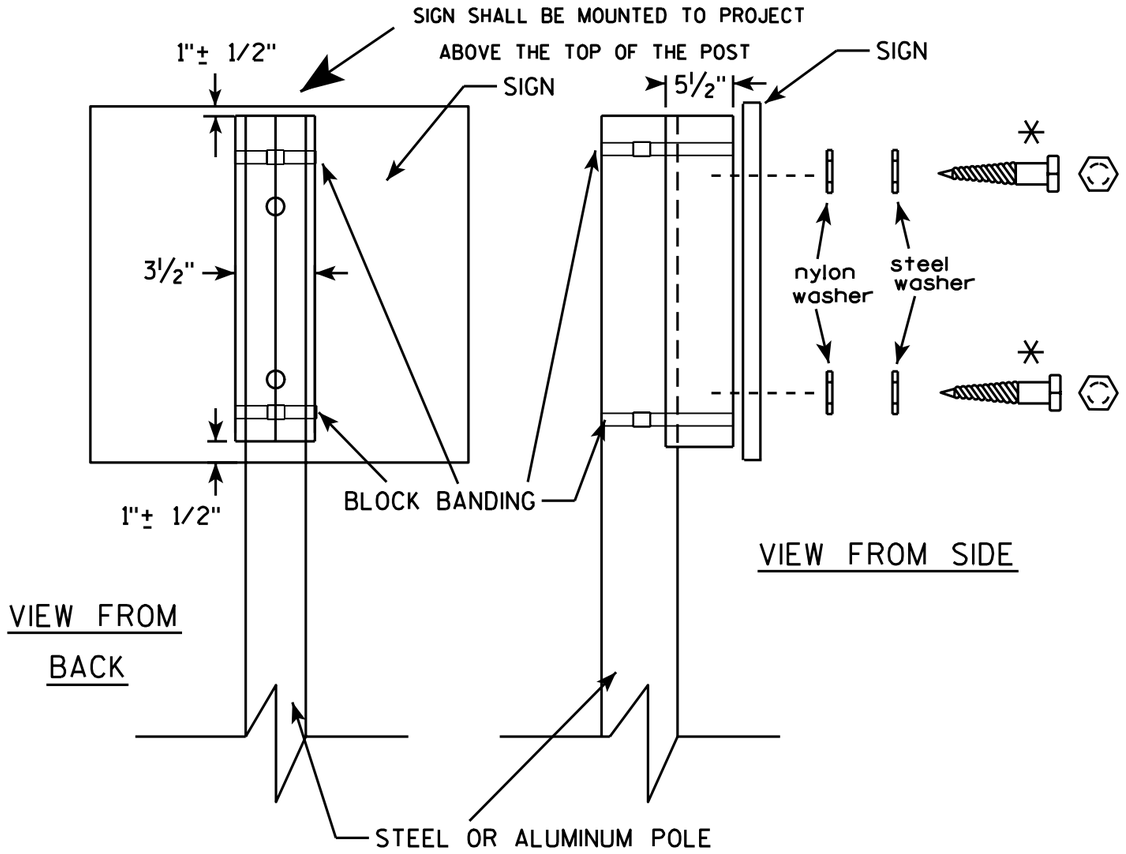
WISCONSIN DEPT OF TRANSPORTATION

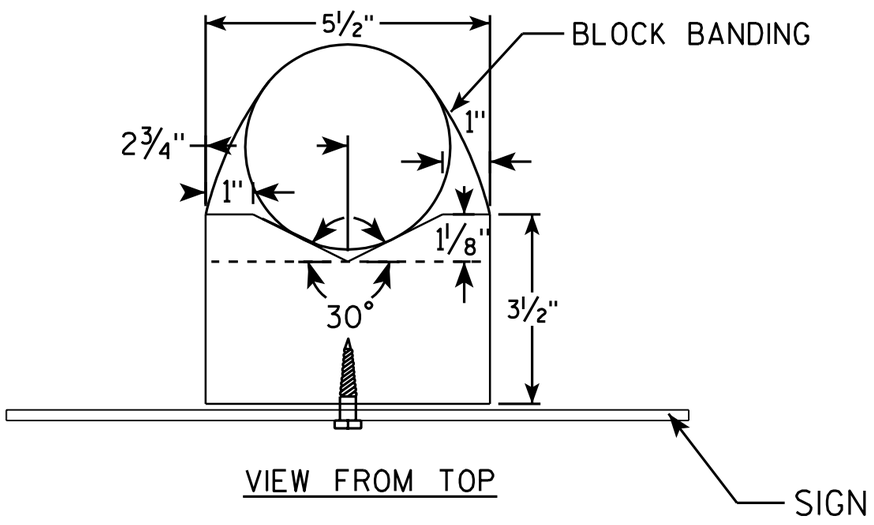
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 5/30/12 PLATE NO. A4-9.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 234	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 30-MAY-2012 14:04 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 13.933009:1.000000

WISDOT/CADDS SHEET 42





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

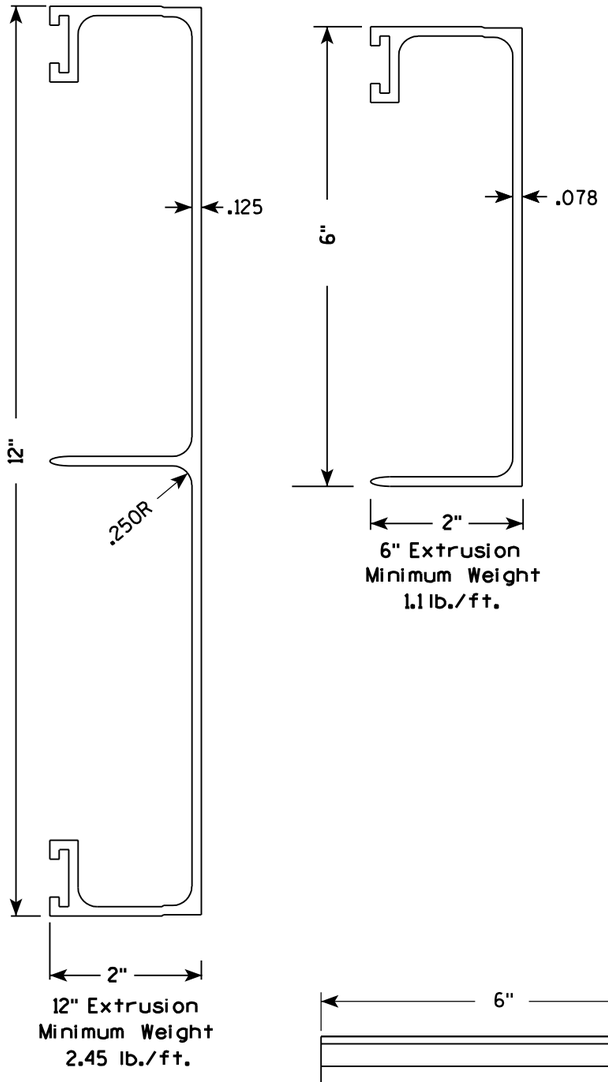
PROJECT NO:

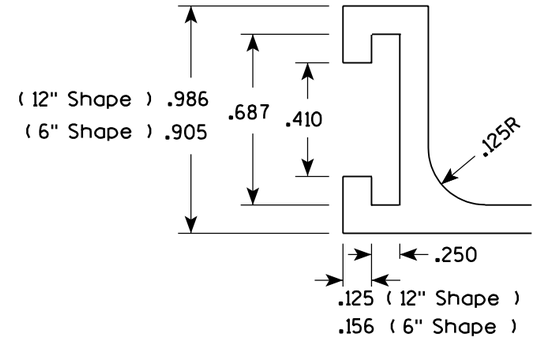
SHEET NO: 235 E

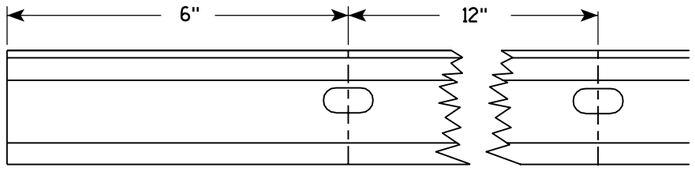
FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

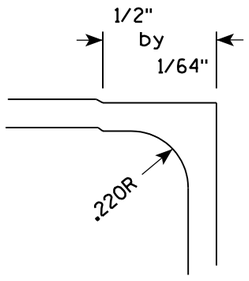
Extruded Shape







Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

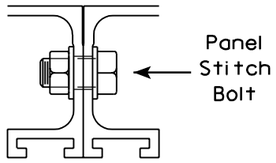


Hardware

STITCH BOLT, WASHER & NUT

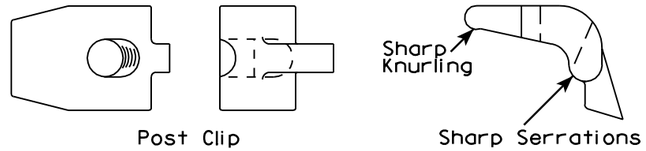
The hardware includes:

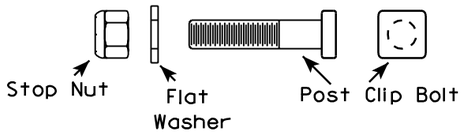
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

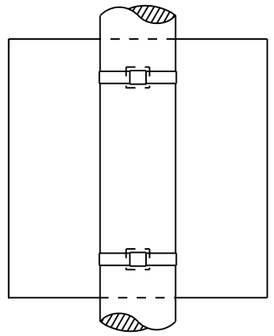
DATE 11/18/99 PLATE NO. A5-2.9

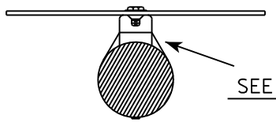
PROJECT NO:

SHEET NO: 236 E

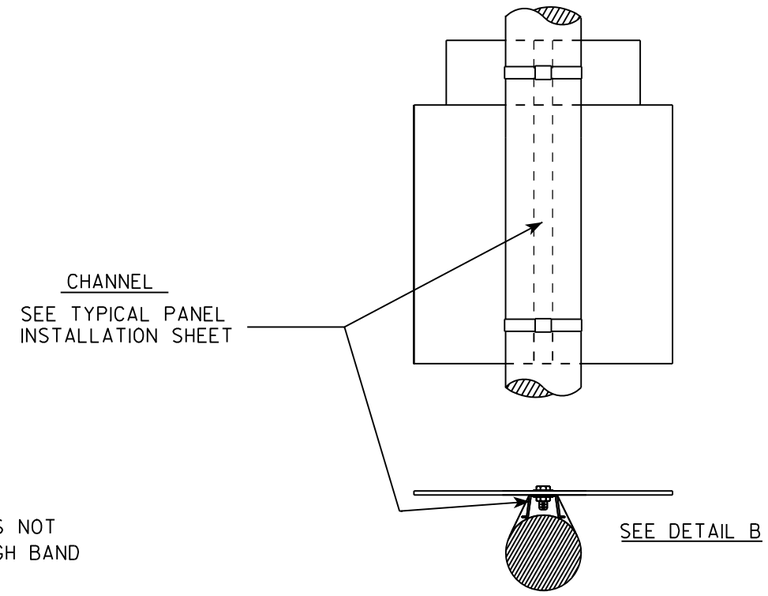
BANDING

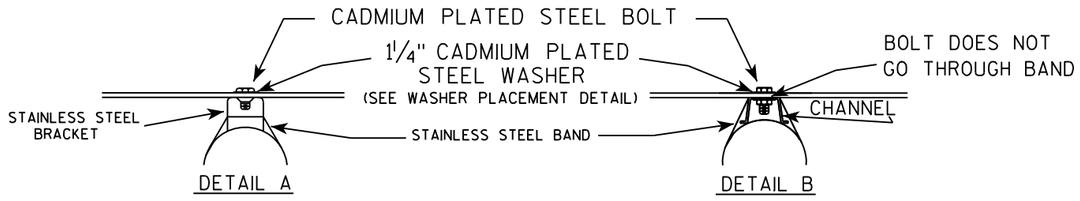
SINGLE SIGN



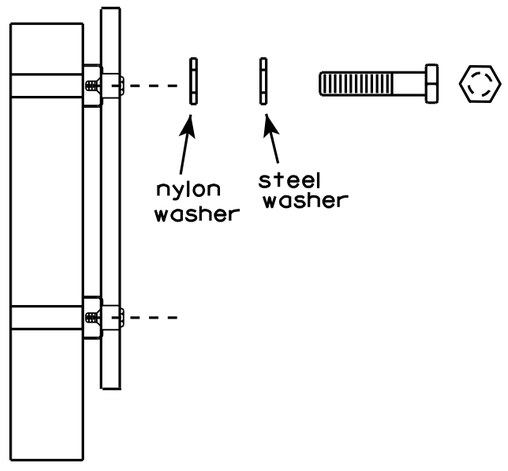


"J" ASSEMBLY





WASHER PLACEMENT



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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

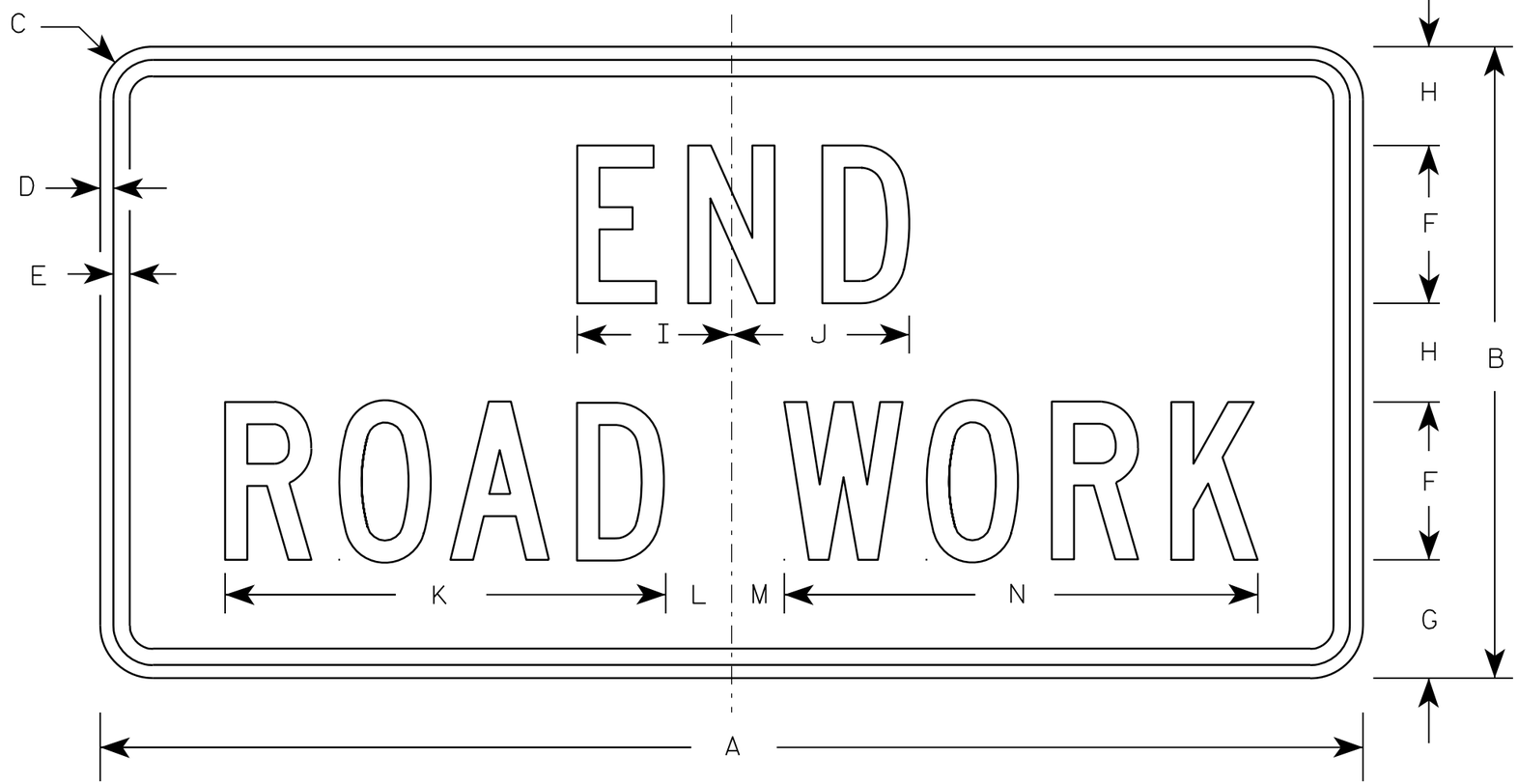
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 237	E



G20-2A

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

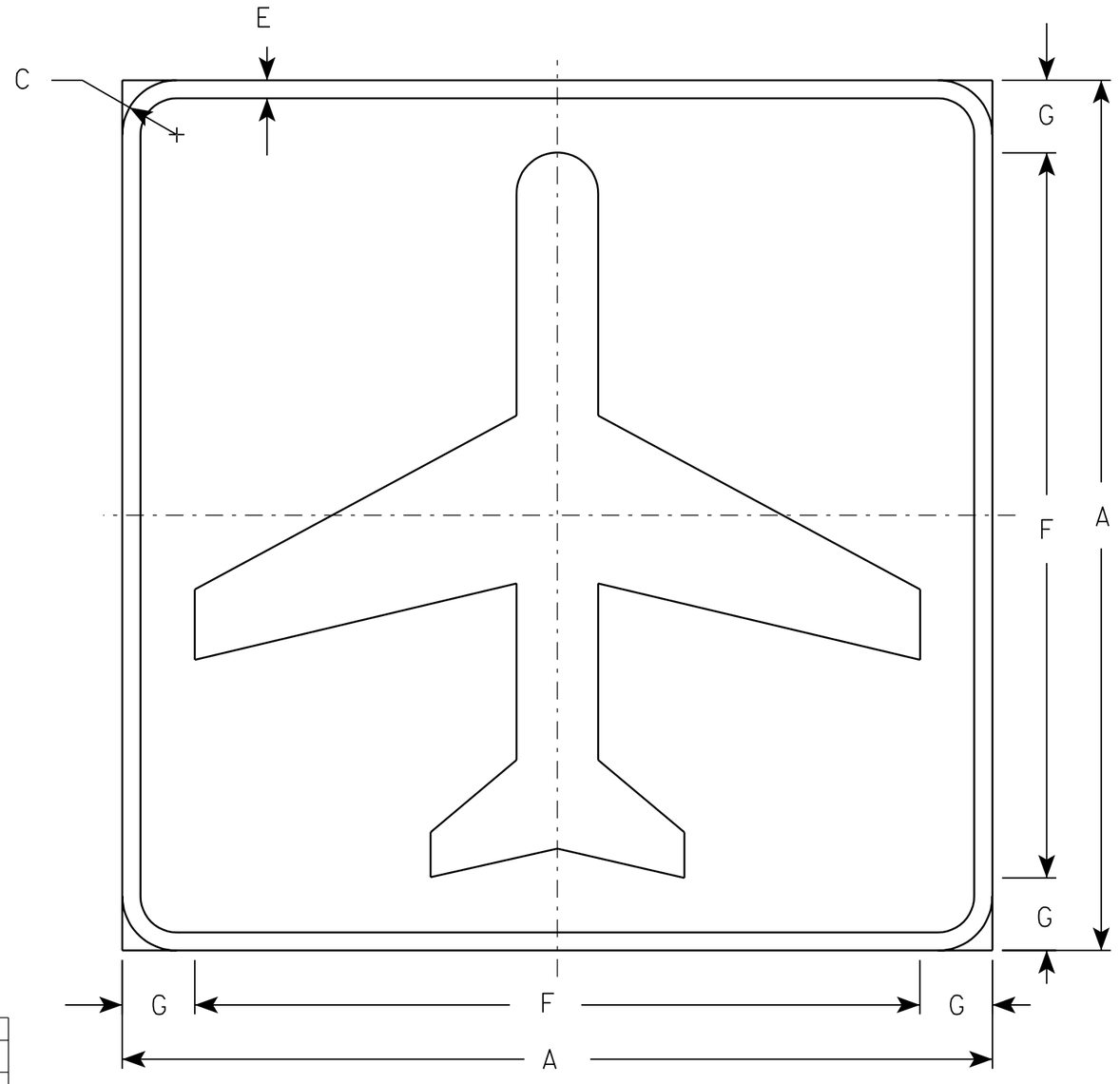
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 238	E



I5 - 1

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	450 mm X 450 mm
2	600 mm X 600 mm
3	750 mm X 750 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	18		1 1/8		3/8	15	1 1/2																				2.25	0.20
2	24		1 1/2		1/2	20	2																				4.0	0.37
3	30		2 1/4		3/4	25	2 1/2																				6.25	0.58
4																												
5																												

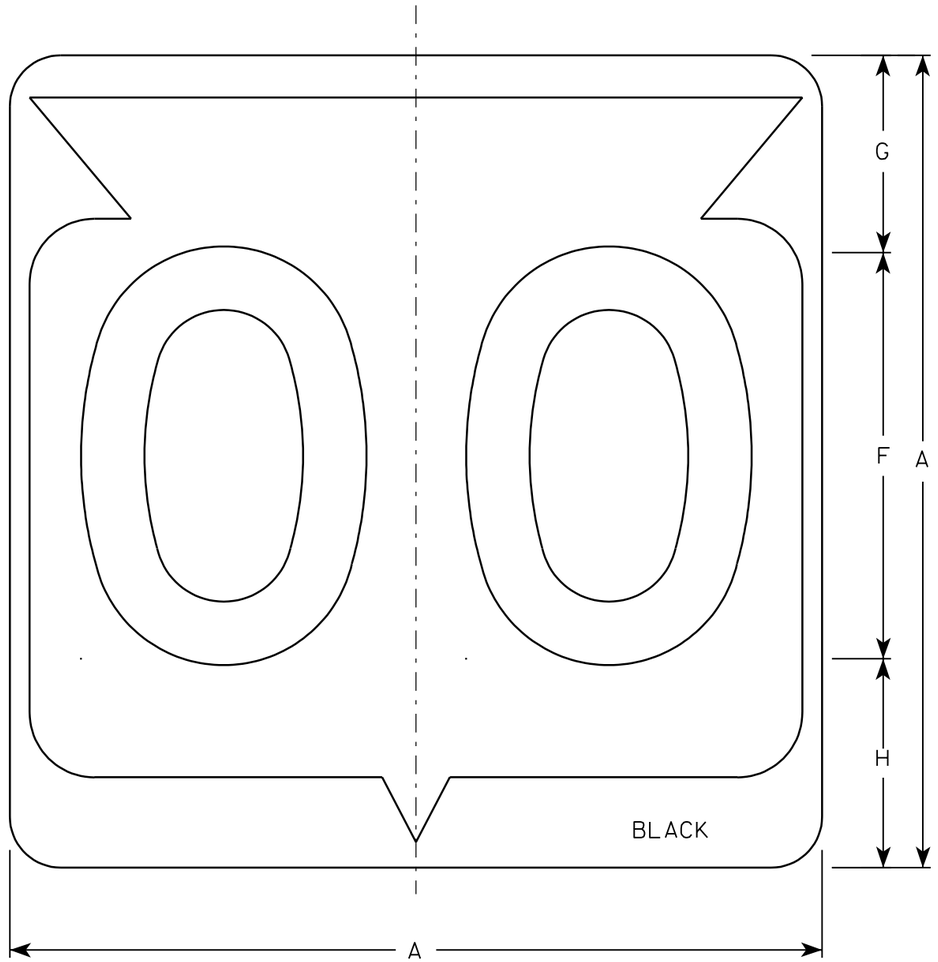
STANDARD SIGN
I5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 1/25/02 PLATE NO. 15-1.3

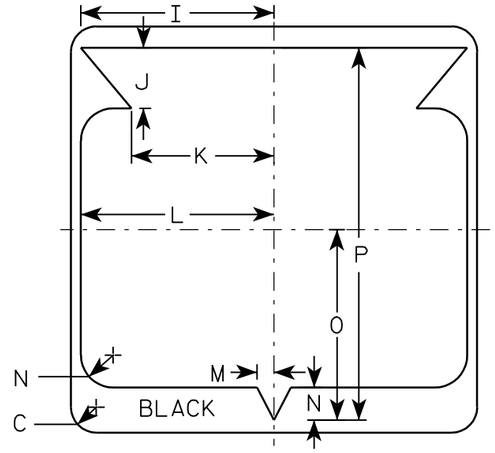
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 239	E



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

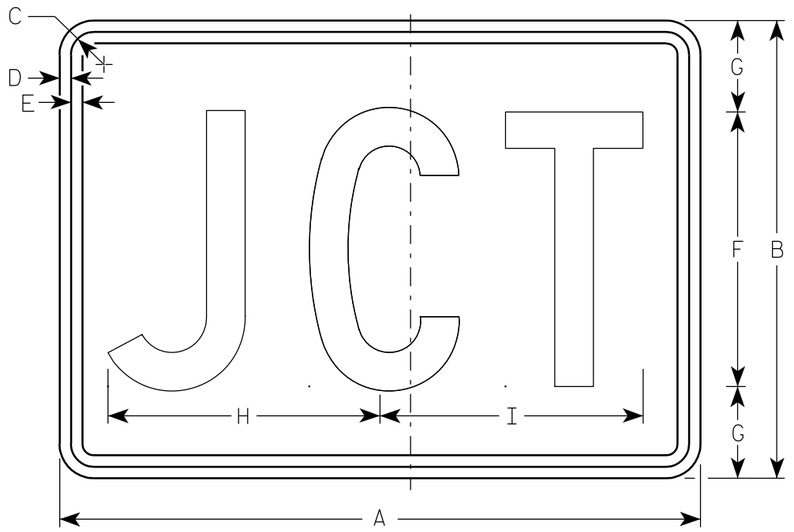
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

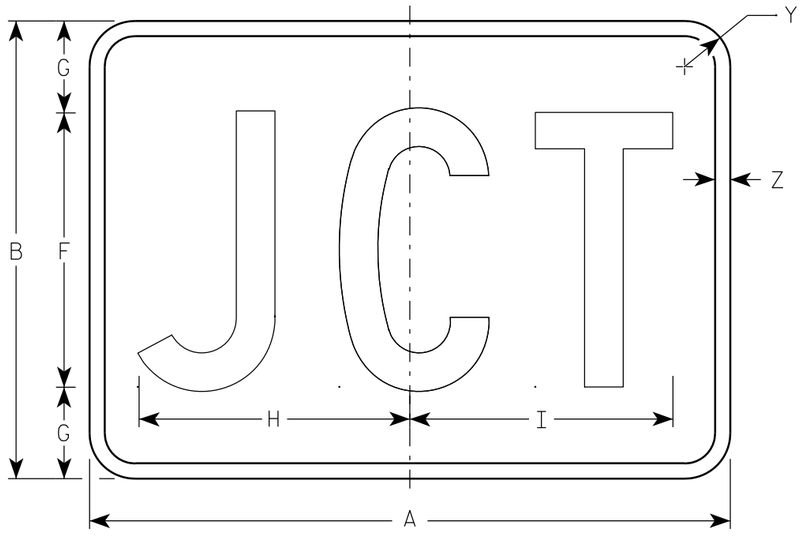
APPROVED Chester J Spang for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 240	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

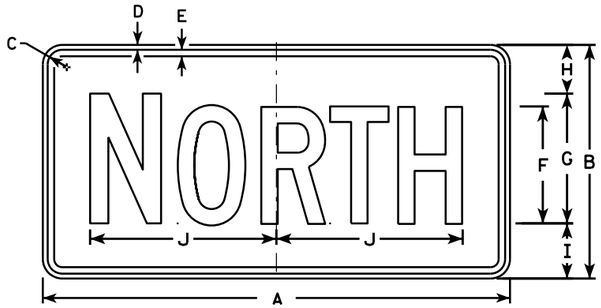
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

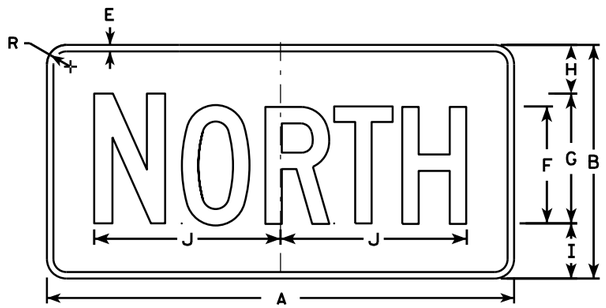
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 241	E



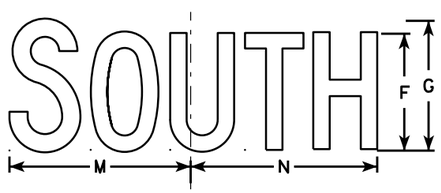
M3-1
MK3-1



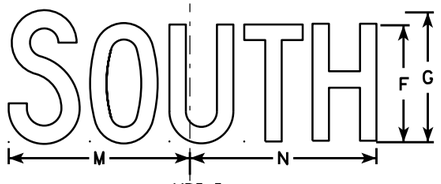
MB3-1
MG3-1
MM3-1
MN3-1

M3-2
MK3-2

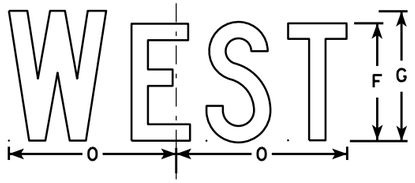
MB3-2
MG3-2
MM3-2
MN3-2



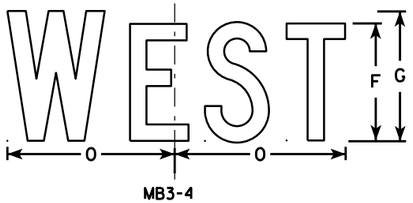
M3-3
MK3-3



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



M3-4
MK3-4



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

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MG3-1 thru MG3-4 Background - Green
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
6. Note the first letter of each direction is larger than the remainder of the message.

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

STANDARD SIGNS
M3-1 thur M3-4
SERIES

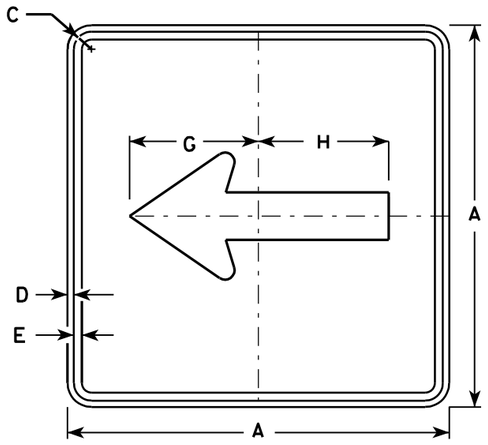
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch
for State Traffic Engineer

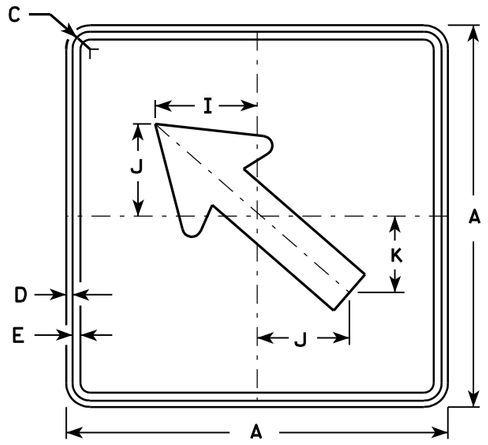
DATE 6/19/14 PLATE NO M3-1.13

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

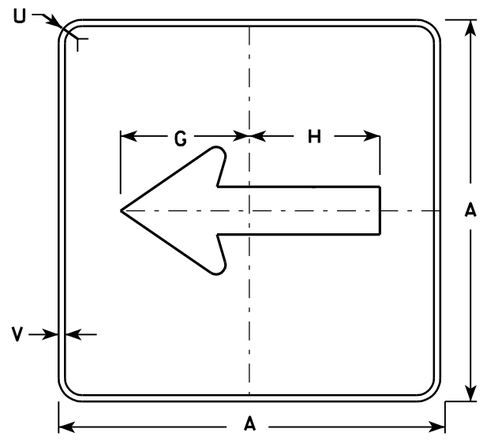
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 19-JUN-2014 16:50 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 11.675051:1.000000 WISDOT/CADDS SHEET 42



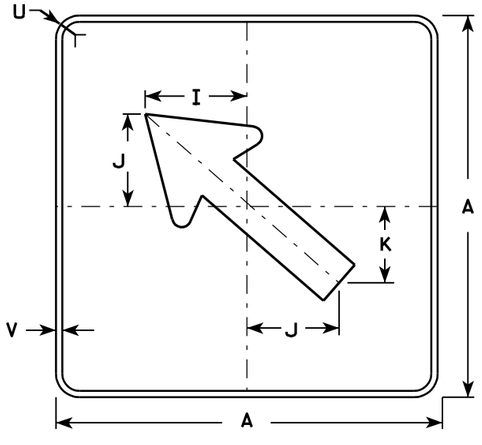
M6-1
MK6-1
MM6-1
MO6-1
MP6-1
MR6-1



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

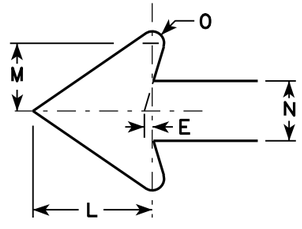
   MM6-1 and MM6-2 Background - White - Type H Reflective
   Message - Green

   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 - Yellow - Type H Reflective



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

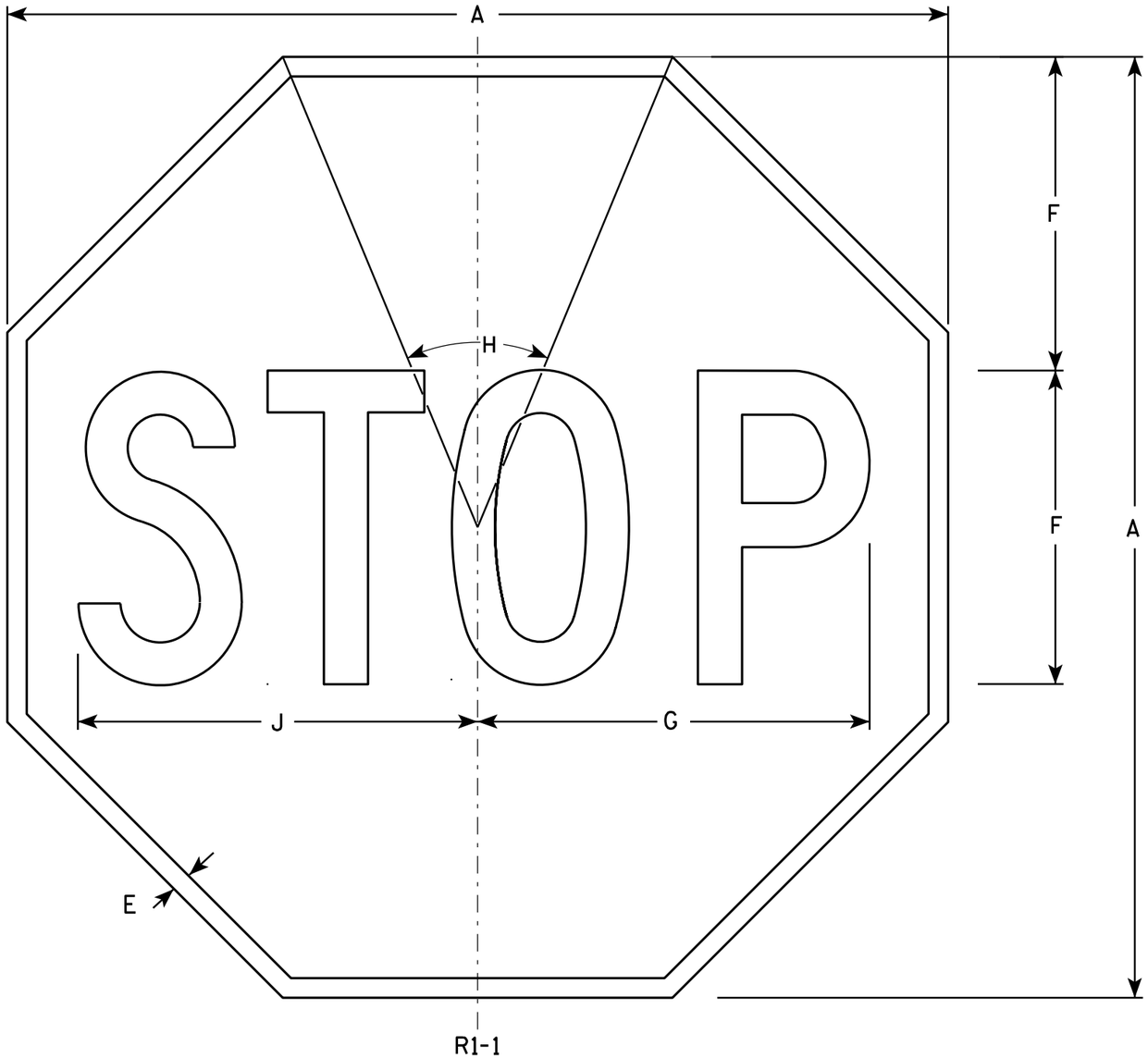
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 243	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

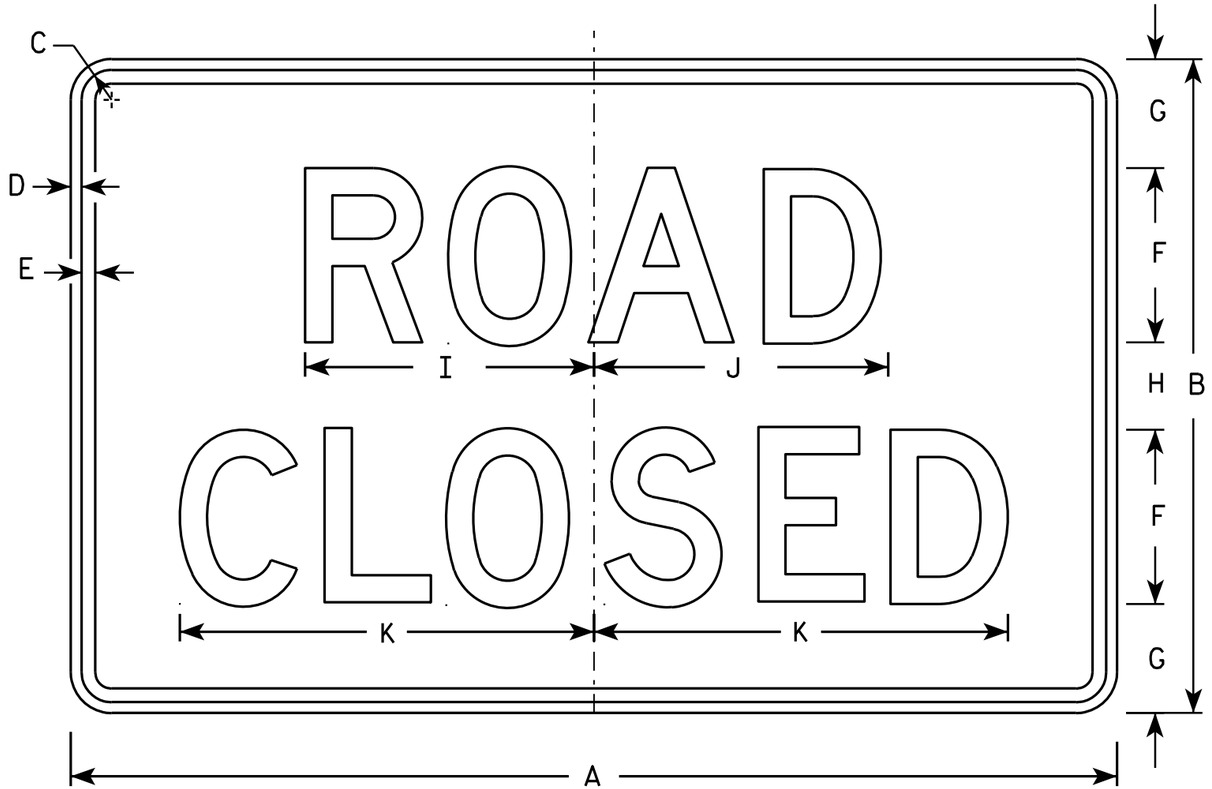
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

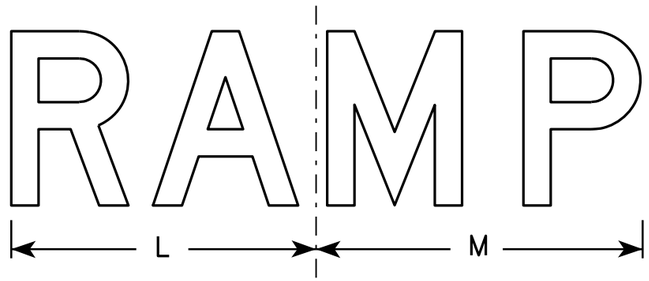
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 244	E



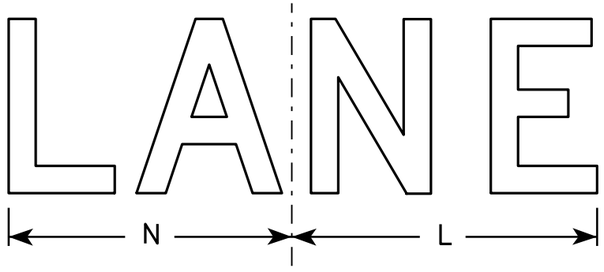
R11-2

NOTES

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



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

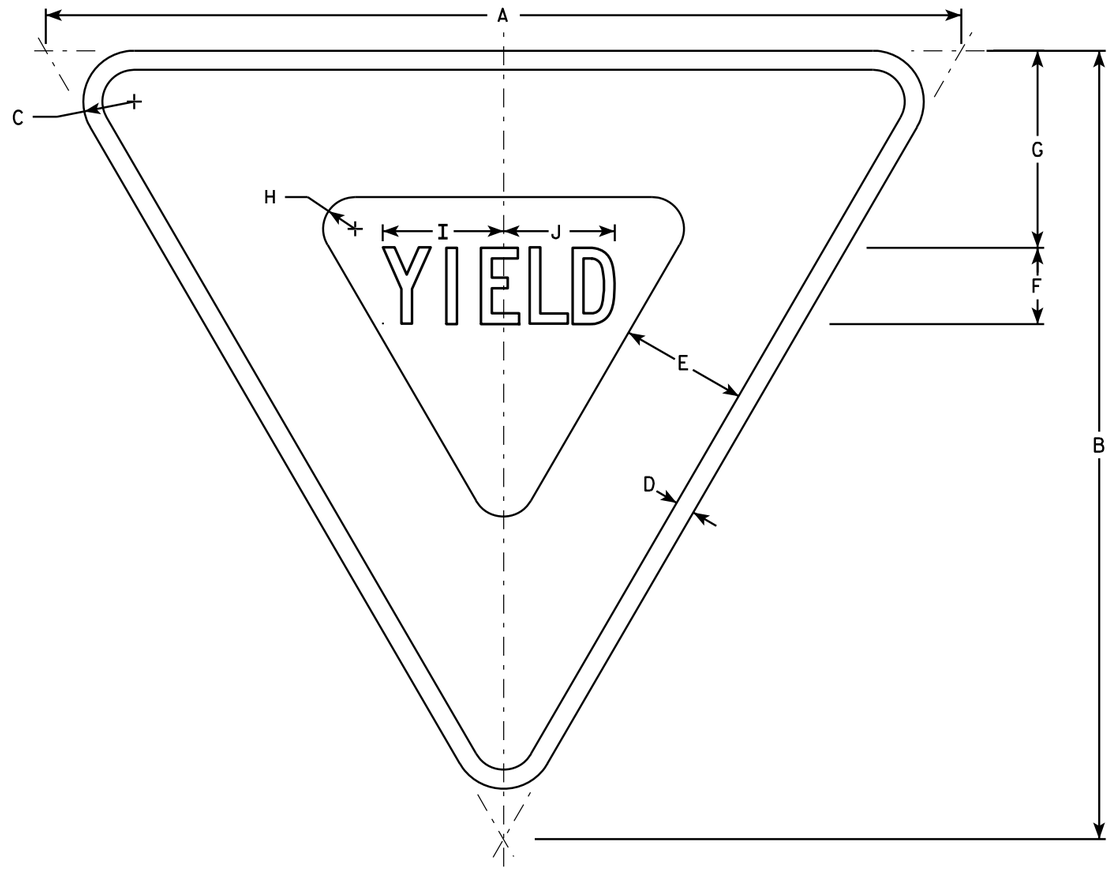
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 245	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - 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. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6	24	21	1 1/2	3/8	3	2	4 3/4	7/8	3 1/4	3																	1.75
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

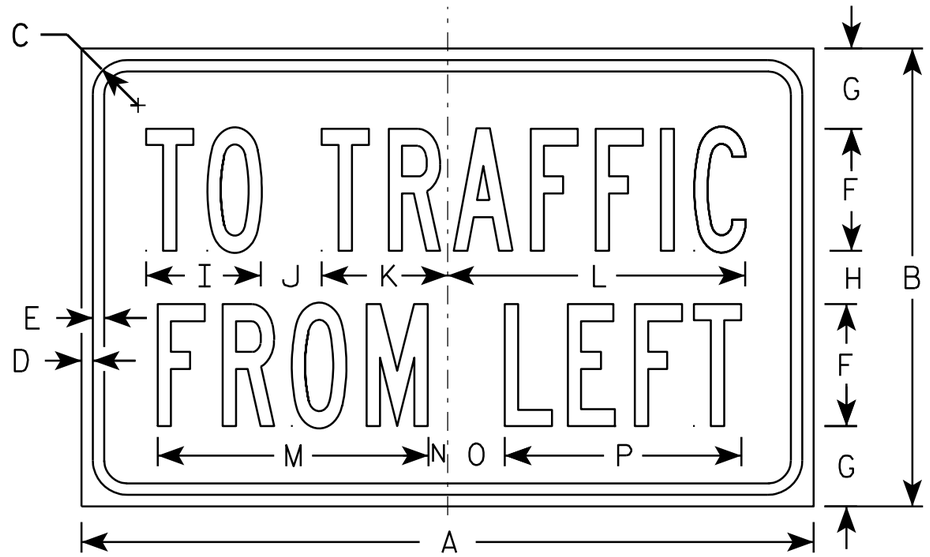
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 246 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R12.DGN PLOT DATE : 02-NOV-2010 10:38 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000 WISDOT/CADDS SHEET 42



R1-54

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

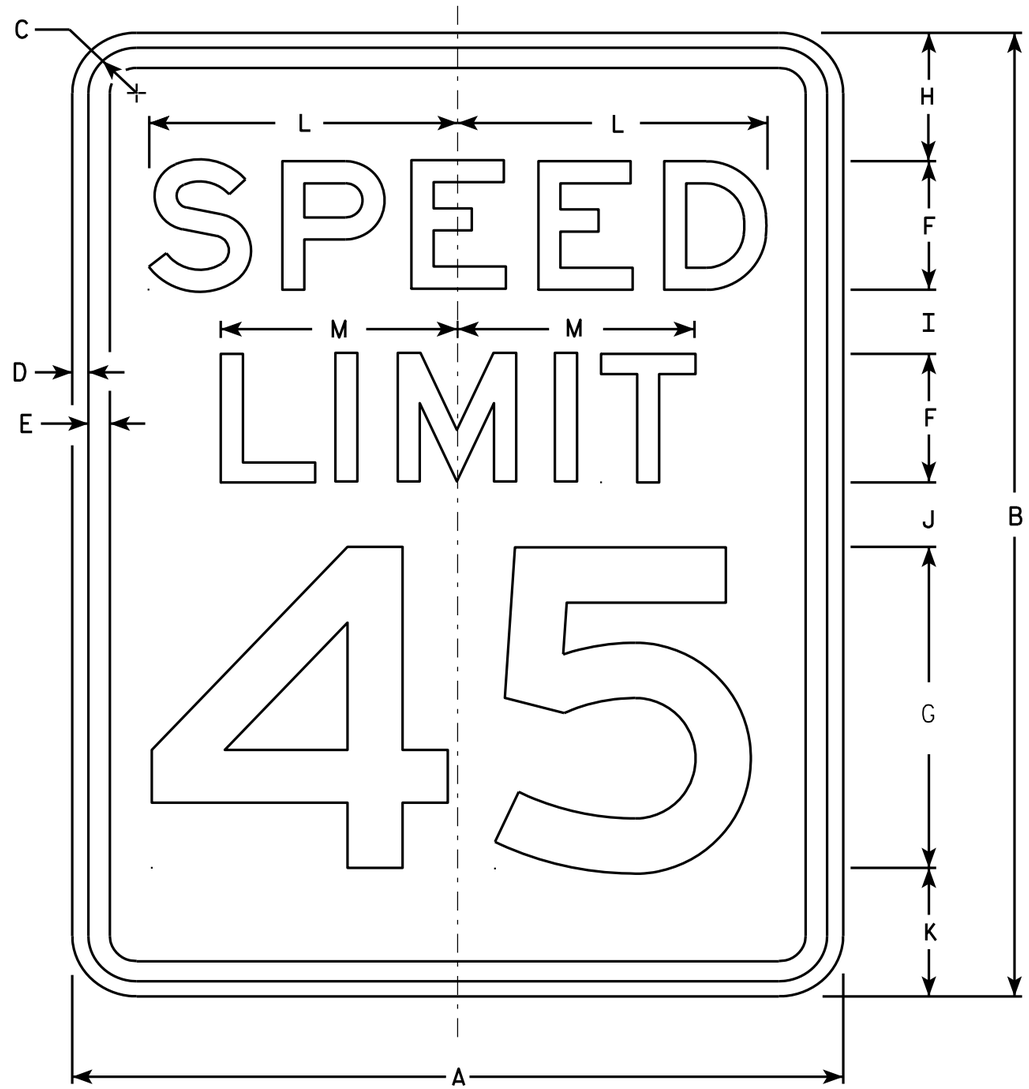
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 247	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R154.DGN PLOT DATE : 03-DEC-2010 08:47 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 4.965868:1.000000

WISDOT/CADDS SHEET 42

7

7



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

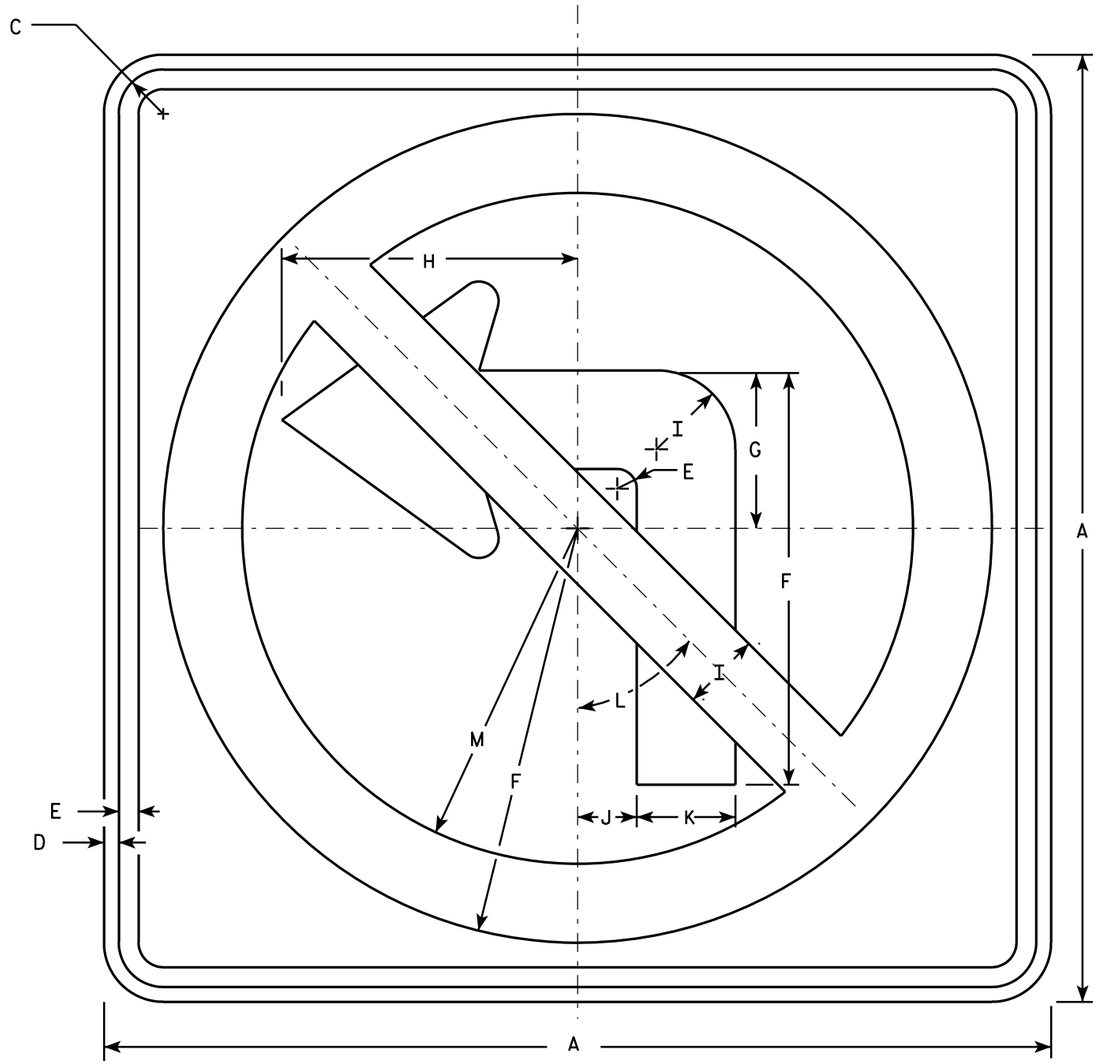
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

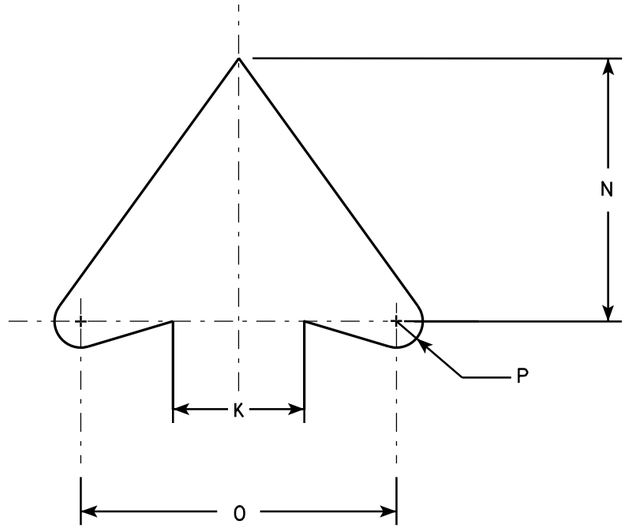
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 248 | E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

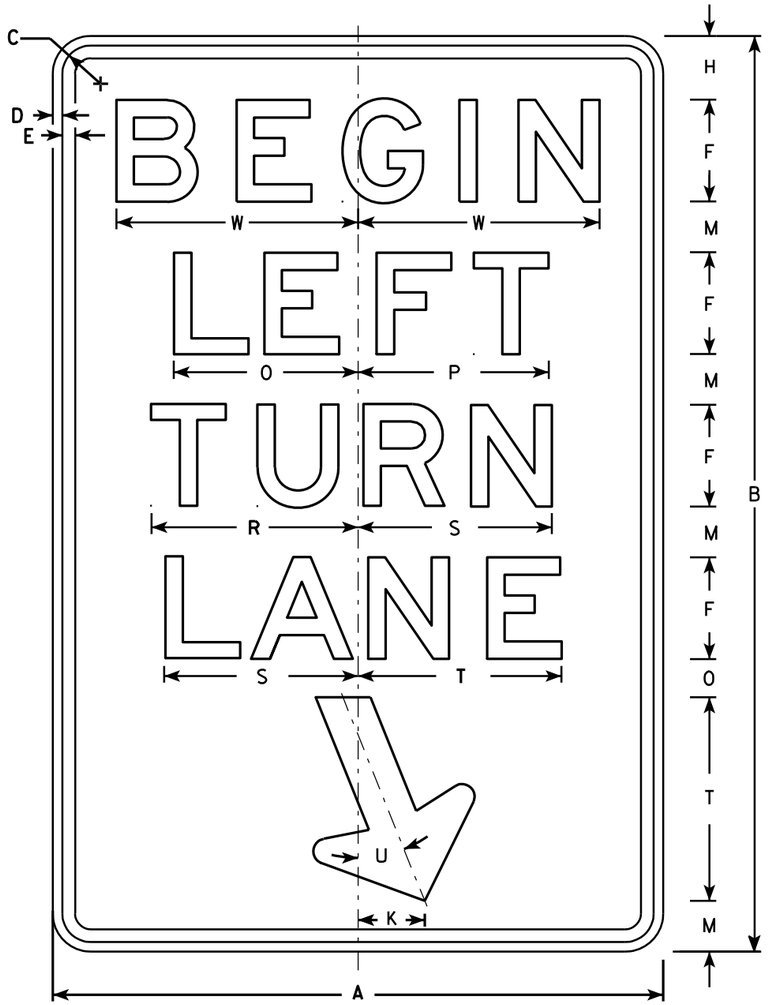
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

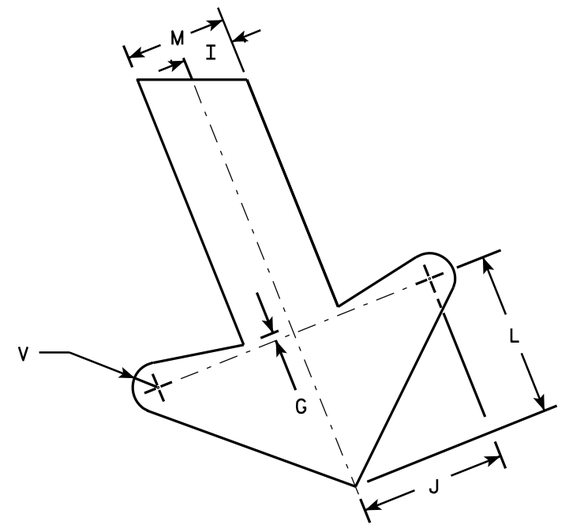
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 249	E



R3-20L

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

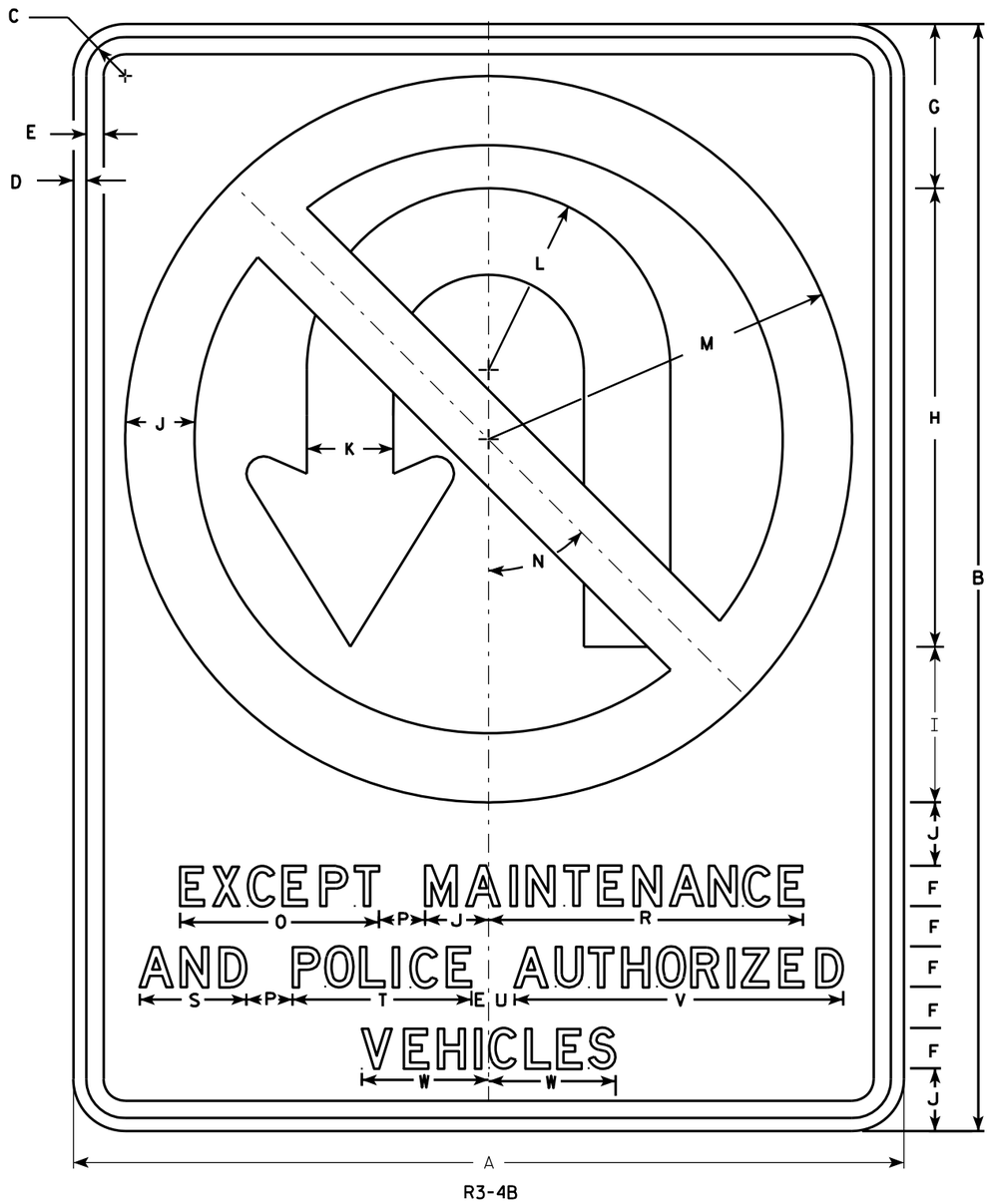
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

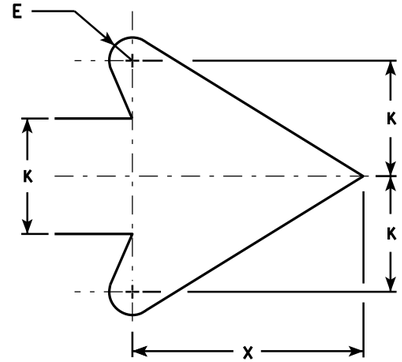
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 250 | E



R3-4B

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 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0
5	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0

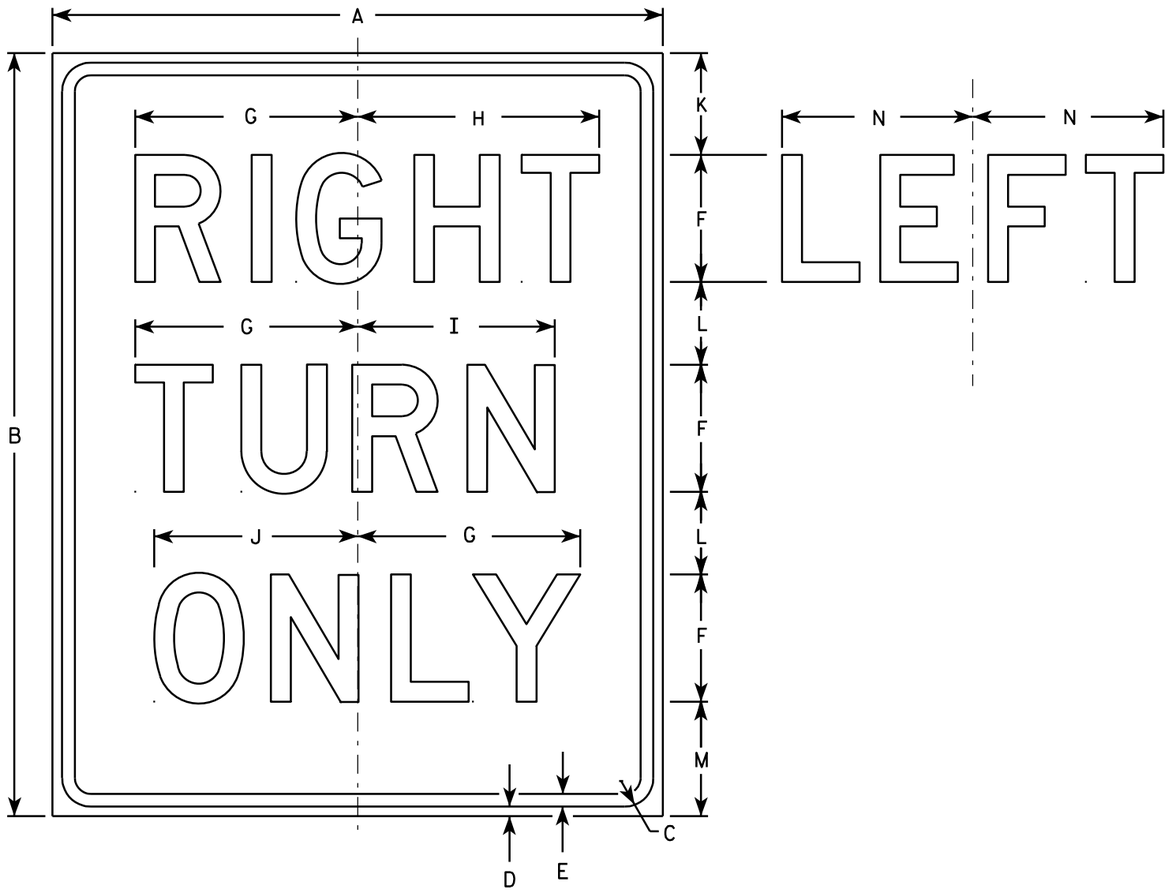
STANDARD SIGN
R3-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-4B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 251	E



R3-53R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R3-53L same as R3-53R except LEFT is substituted for 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																											
2S	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
2M	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
3	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
4																											
5																											

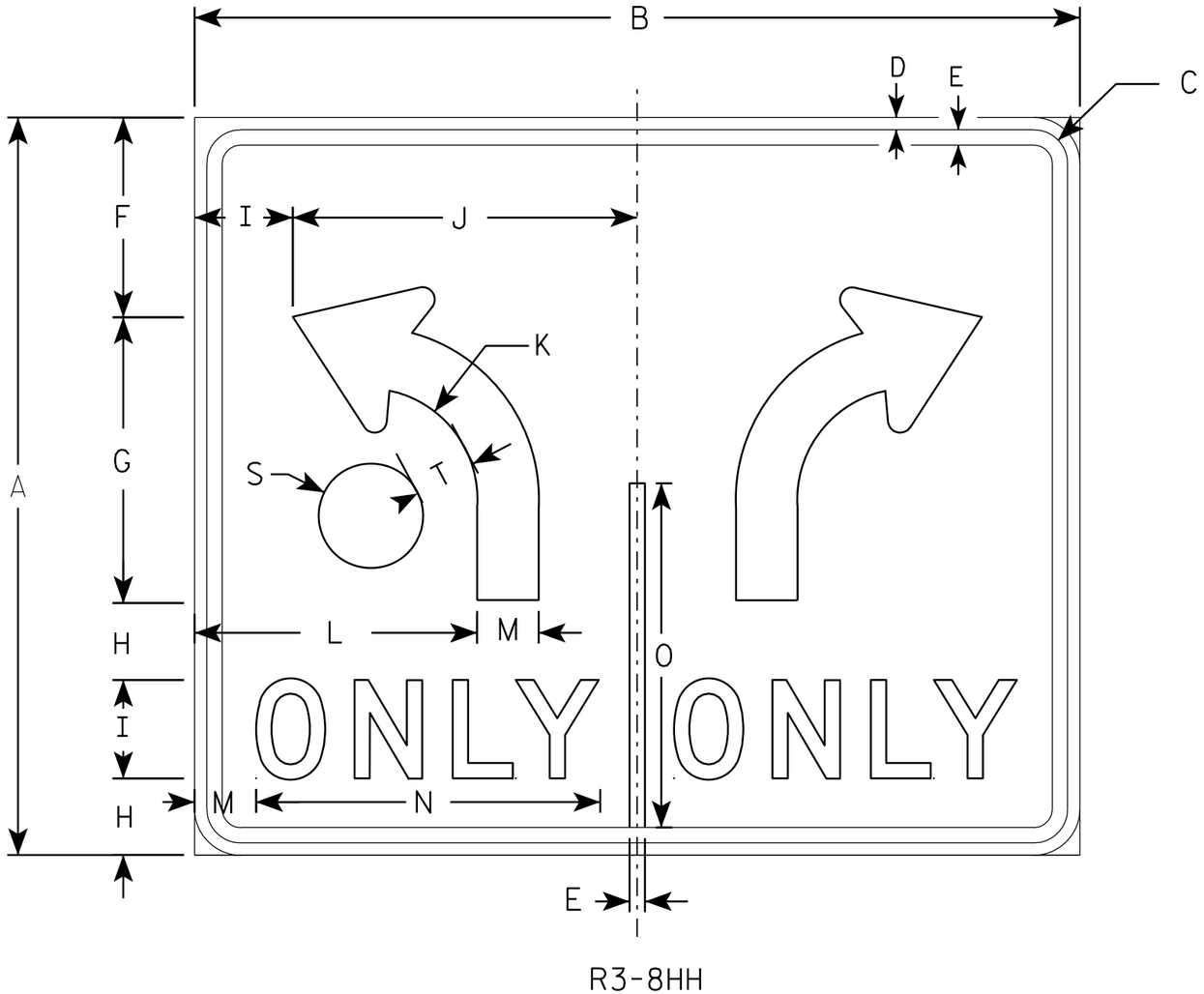
STANDARD SIGN
R3-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-53.8

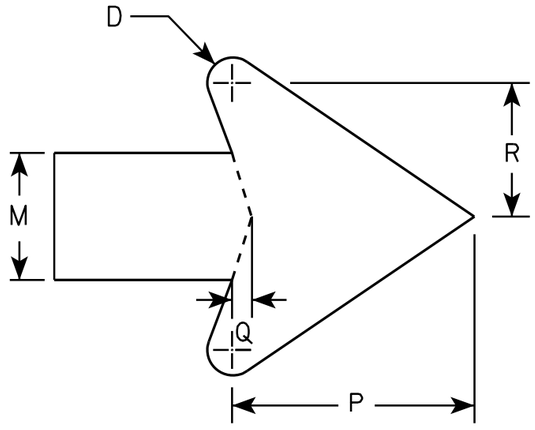
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 252	E



R3-8HH

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	14	4 1/2	11 1/2	2 1/2	14	14	4 3/4	3/8	2 5/8	4 1/4	2 1/2							7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	14	4 1/2	11 1/2	2 1/2	14	14	4 3/4	3/8	2 5/8	4 1/4	2 1/2							7.5
3																											
4																											
5																											

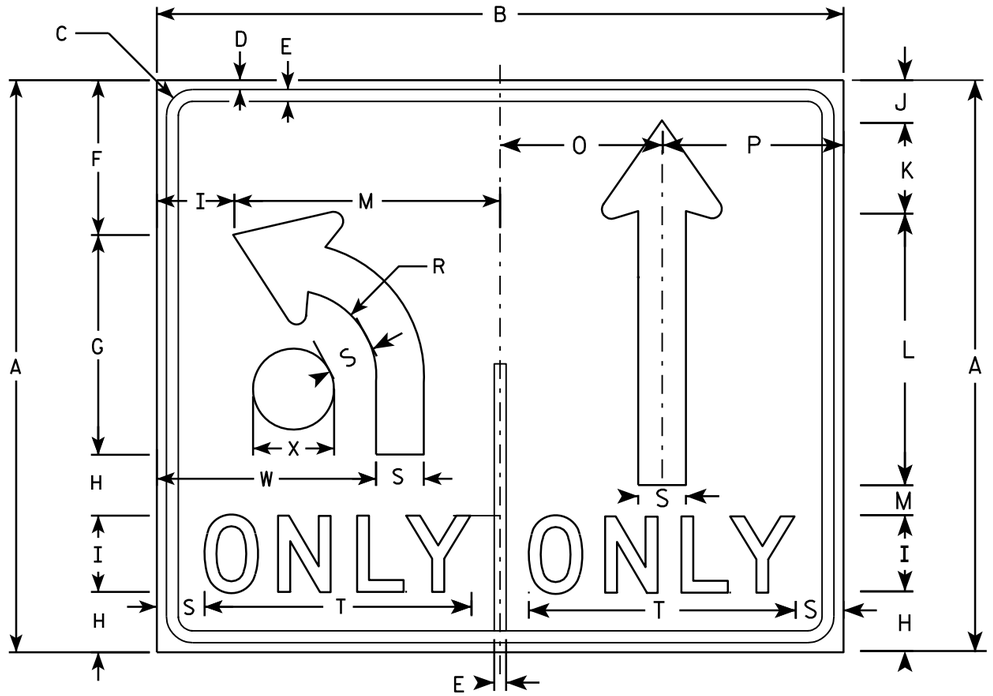
STANDARD SIGN
R3-8HH

WISCONSIN DEPT OF TRANSPORTATION

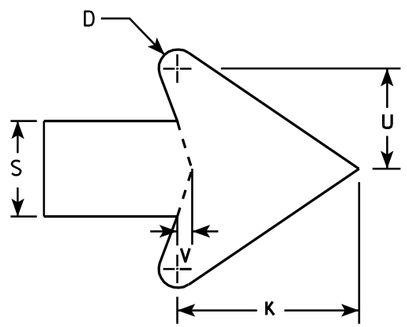
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8HH.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 253 | E



R3-8JJ



ARROW DETAIL

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2		4 1/2	2 1/2	14	2 5/8	3/8	11 1/2	4 1/4			7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2		4 1/2	2 1/2	14	2 5/8	3/8	11 1/2	4 1/4			7.5
3																											
4																											
5																											

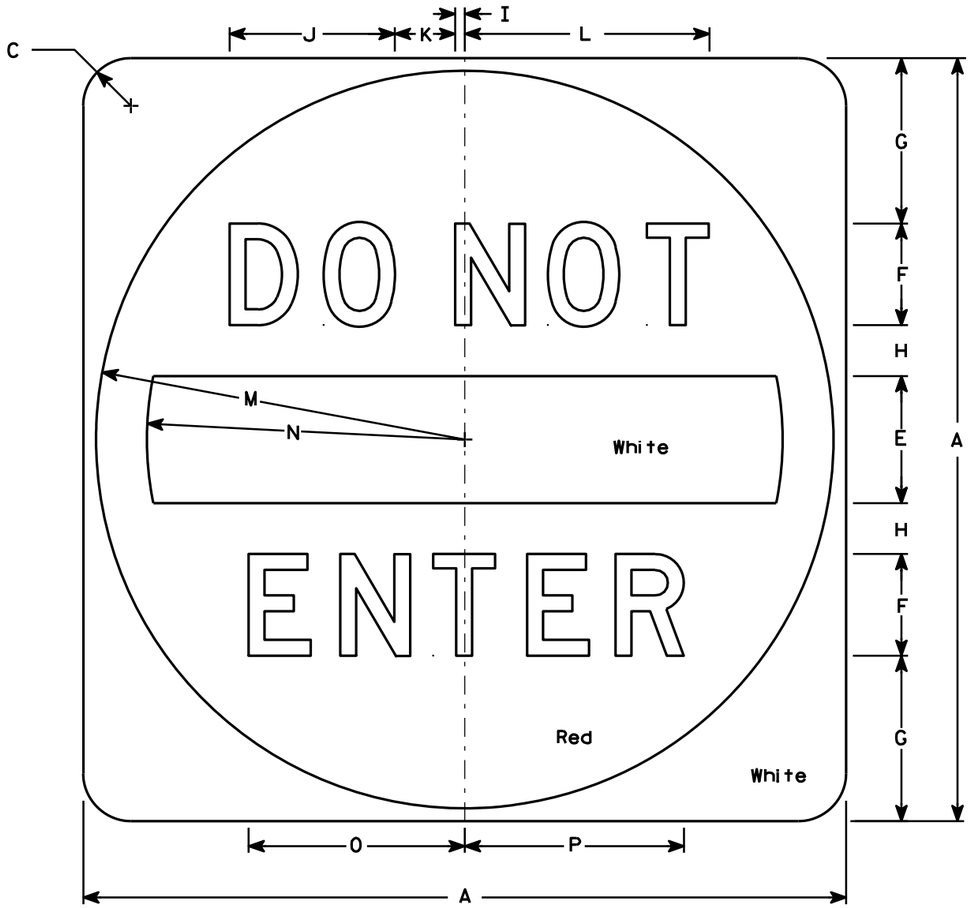
STANDARD SIGN
R3-8JJ

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/2011 PLATE NO. R3-8JJ.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 254	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

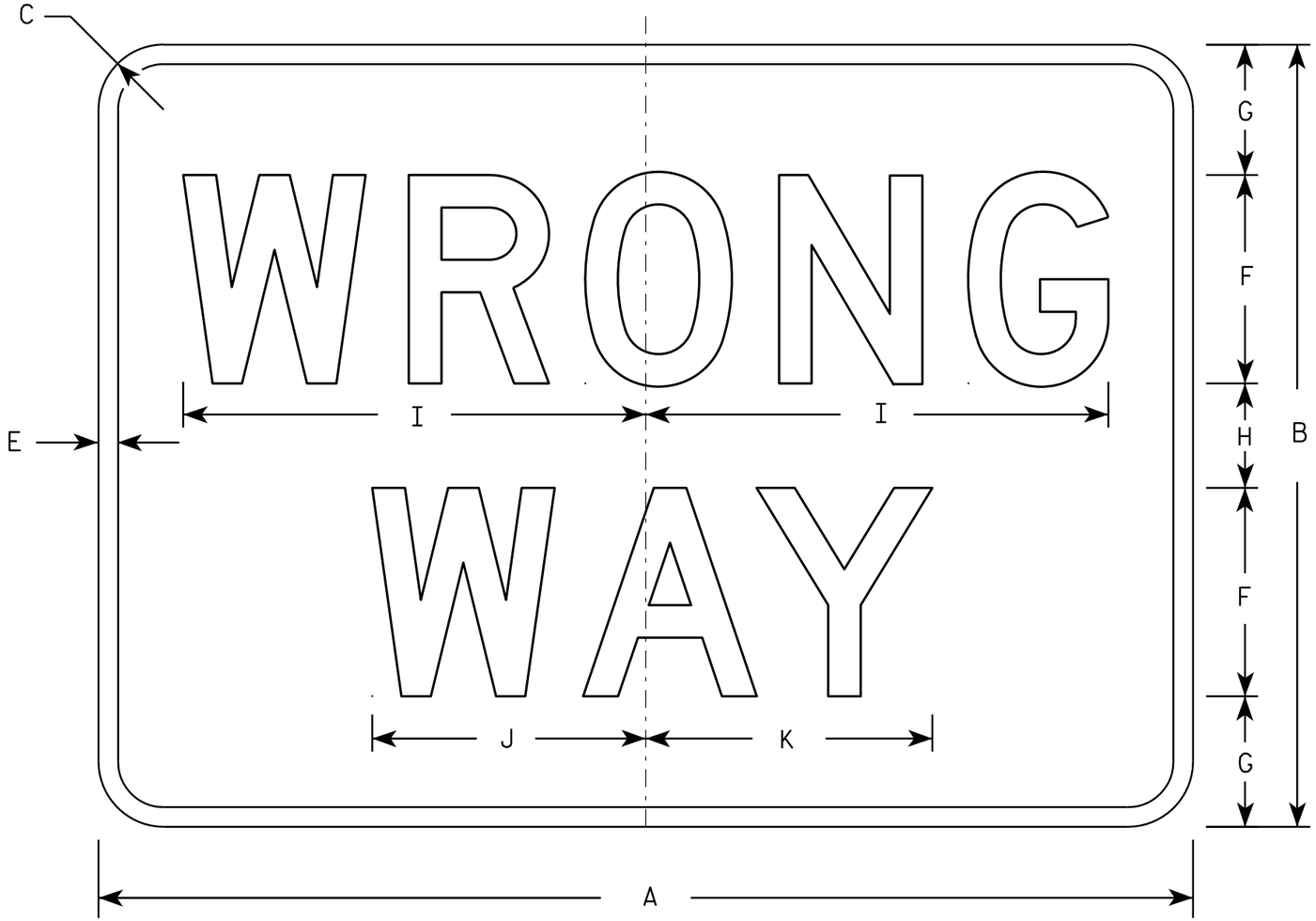
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 255 | E



R5-1A

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 - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

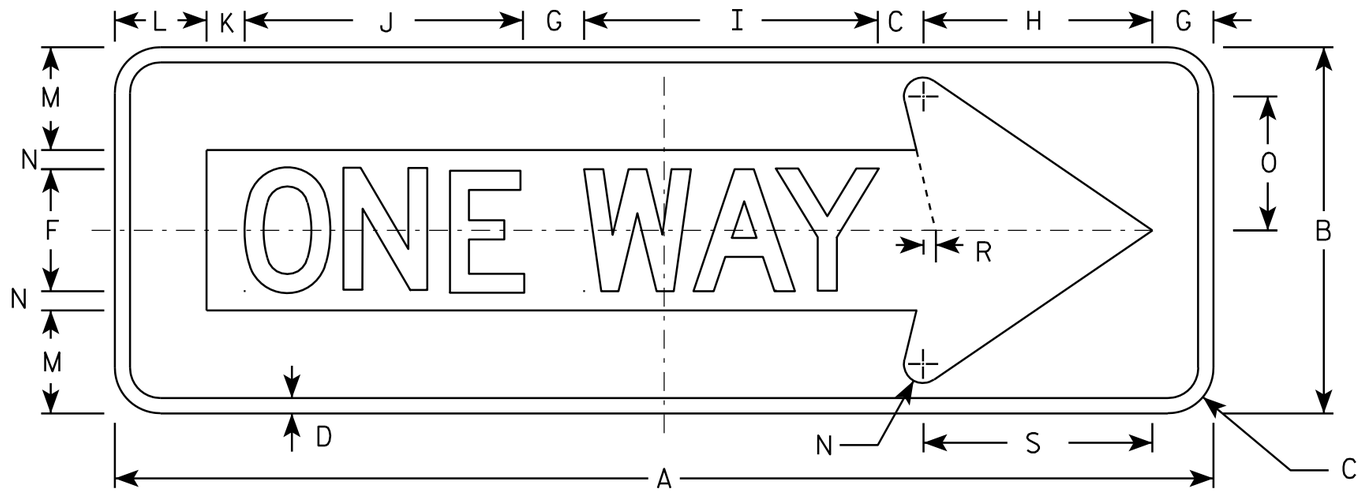
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

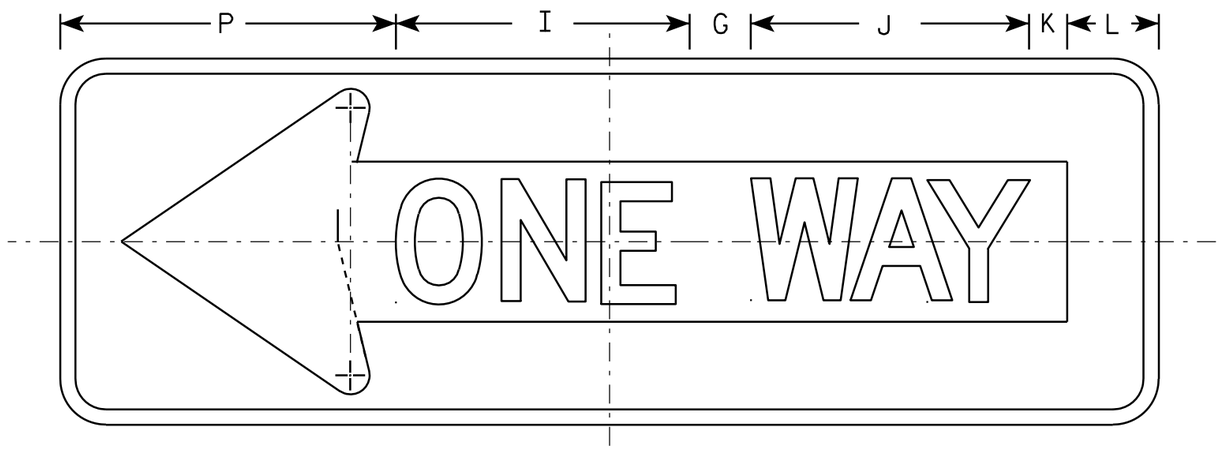
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 256 | E



R6-1R

NOTES

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



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

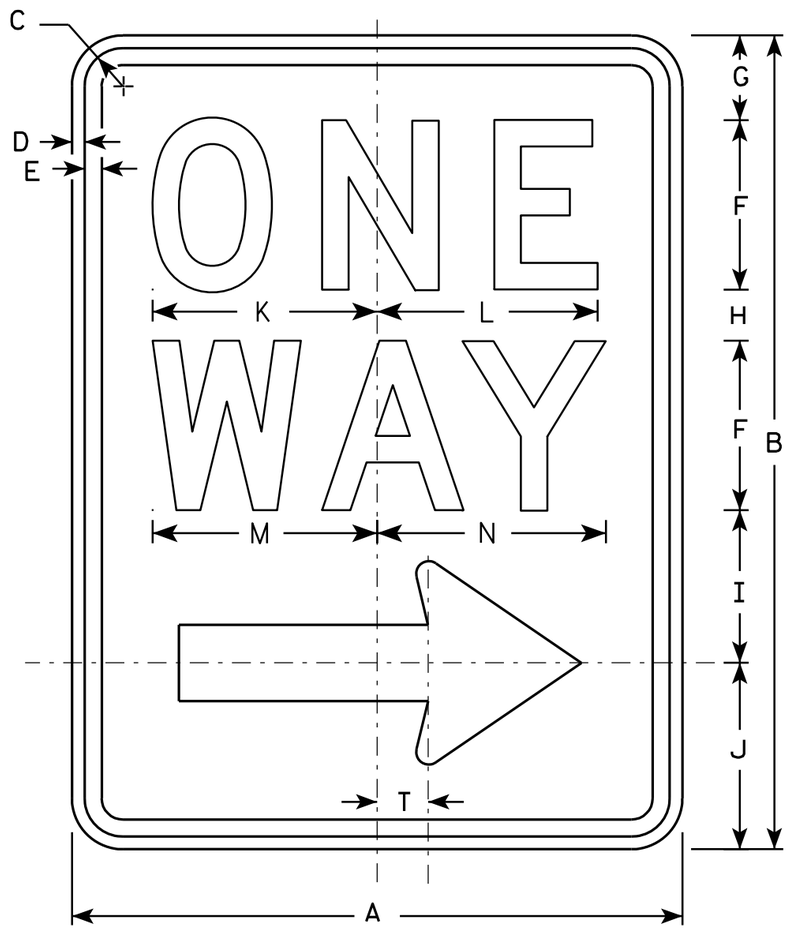
SHEET NO: 257 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R61.DGN PLOT DATE : 17-DEC-2010 14:11 PLOT BY : dotsja

WISDOT/CADDS SHEET 42

7

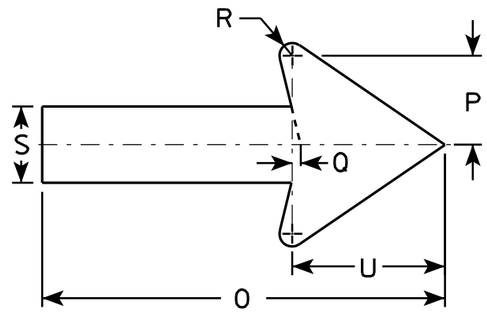
7



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



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
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

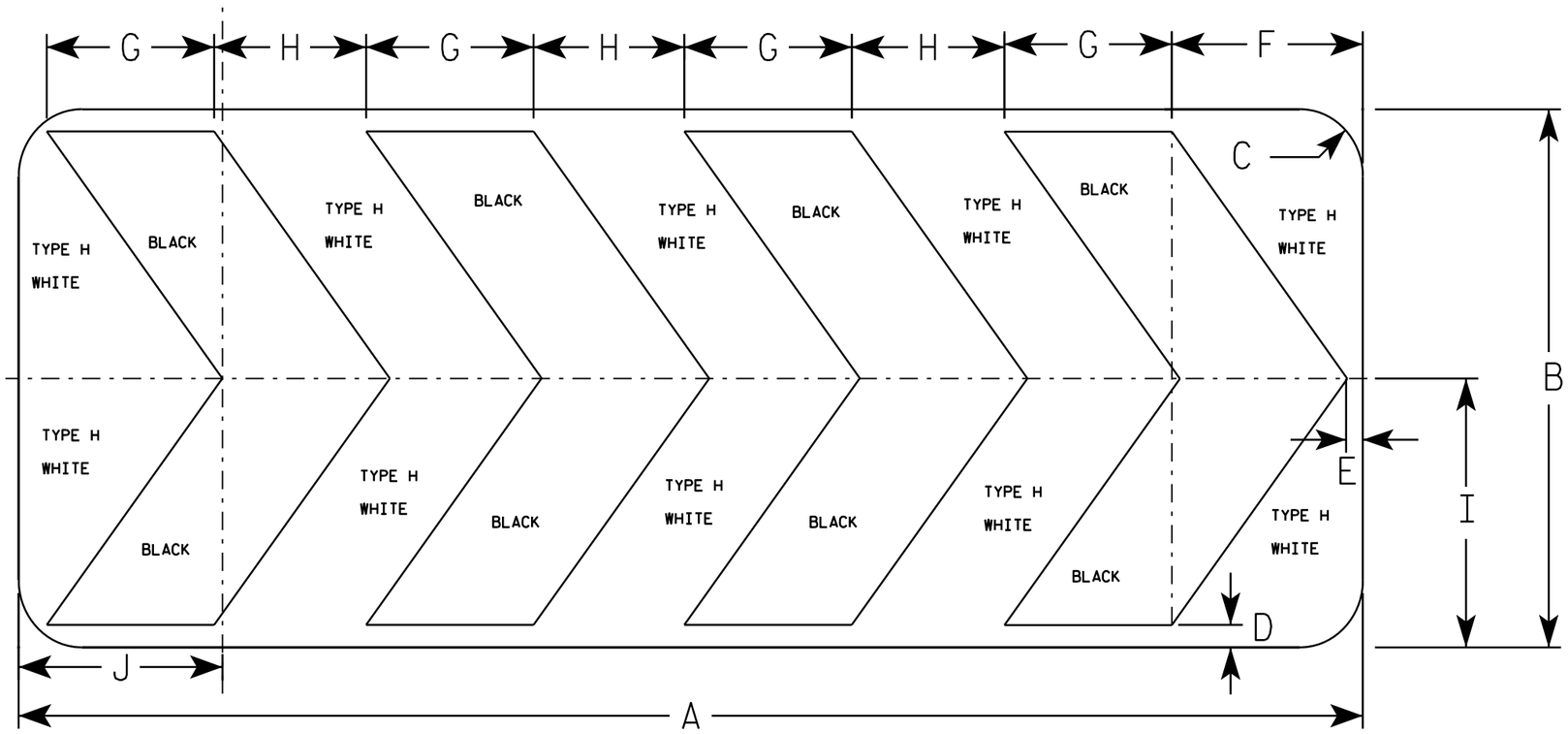
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 258	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 - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	2 1/4	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	2 1/4	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/03/11 PLATE NO. R6-4B.2

PROJECT NO:

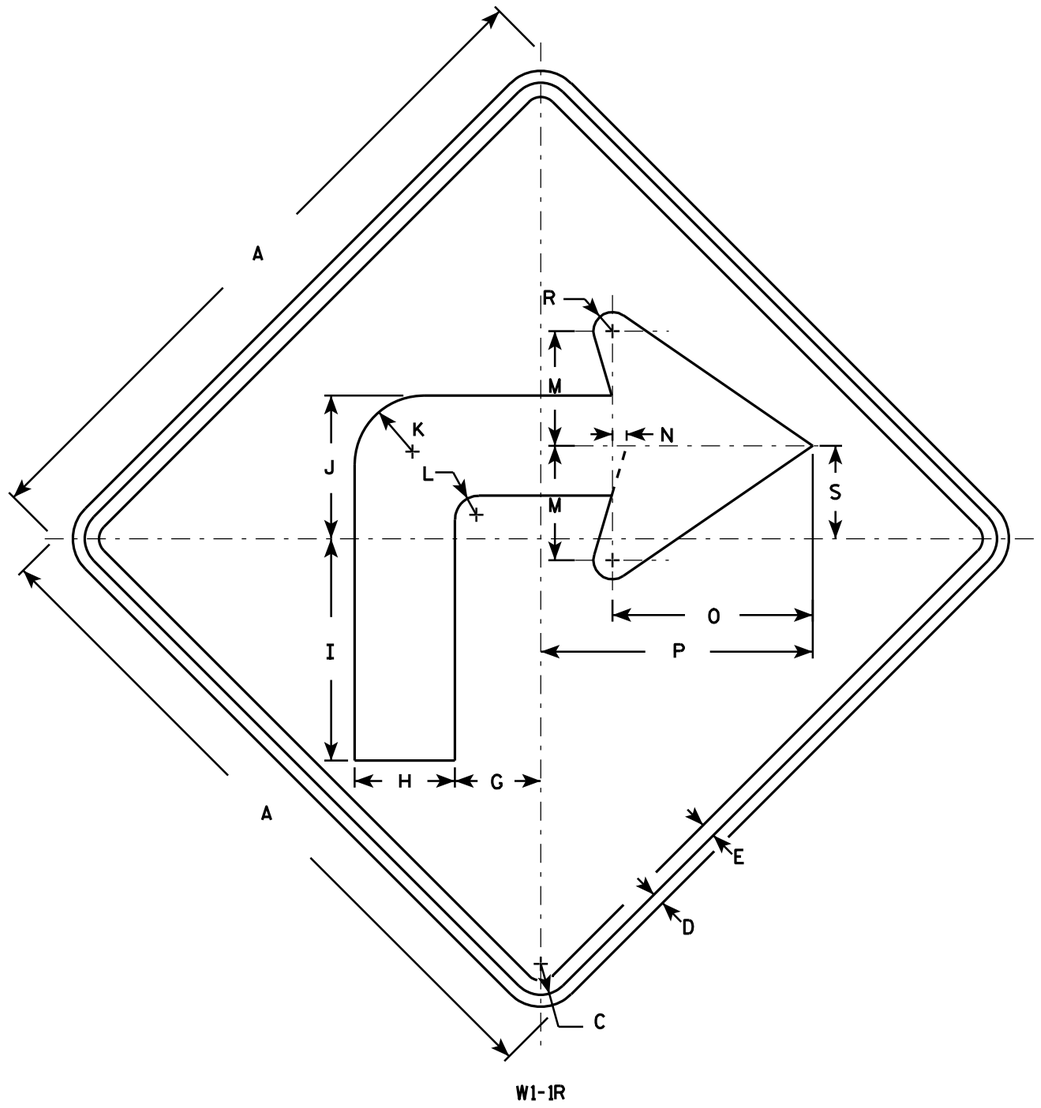
SHEET NO: 259 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R64B.DGN PLOT DATE : 03-JAN-2011 14:30 PLOT BY : dotsja

WISDOT/CADDS SHEET 42

7

7



W1-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

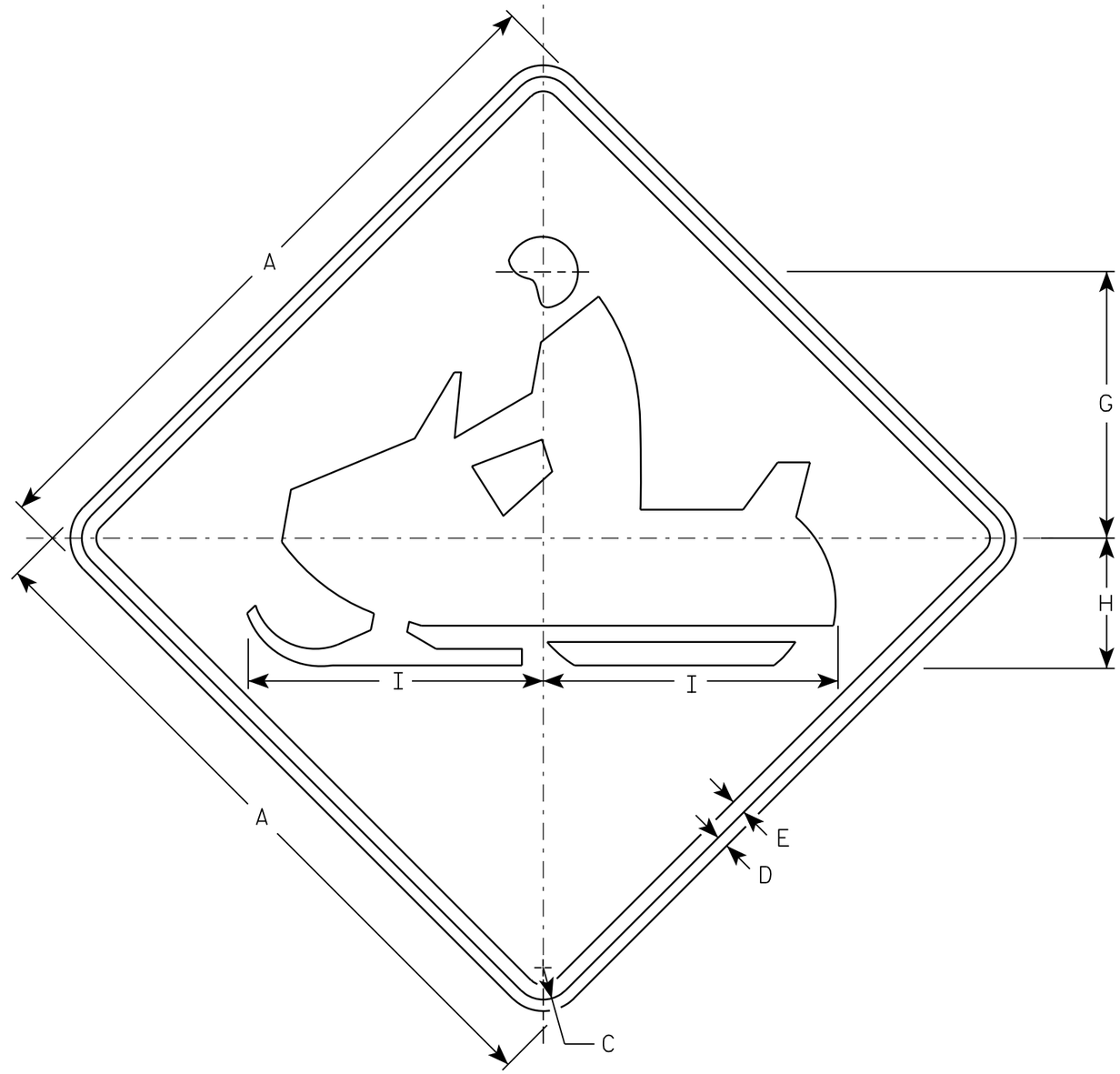
STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 260 | E



W11-6

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

STANDARD SIGN
W11-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

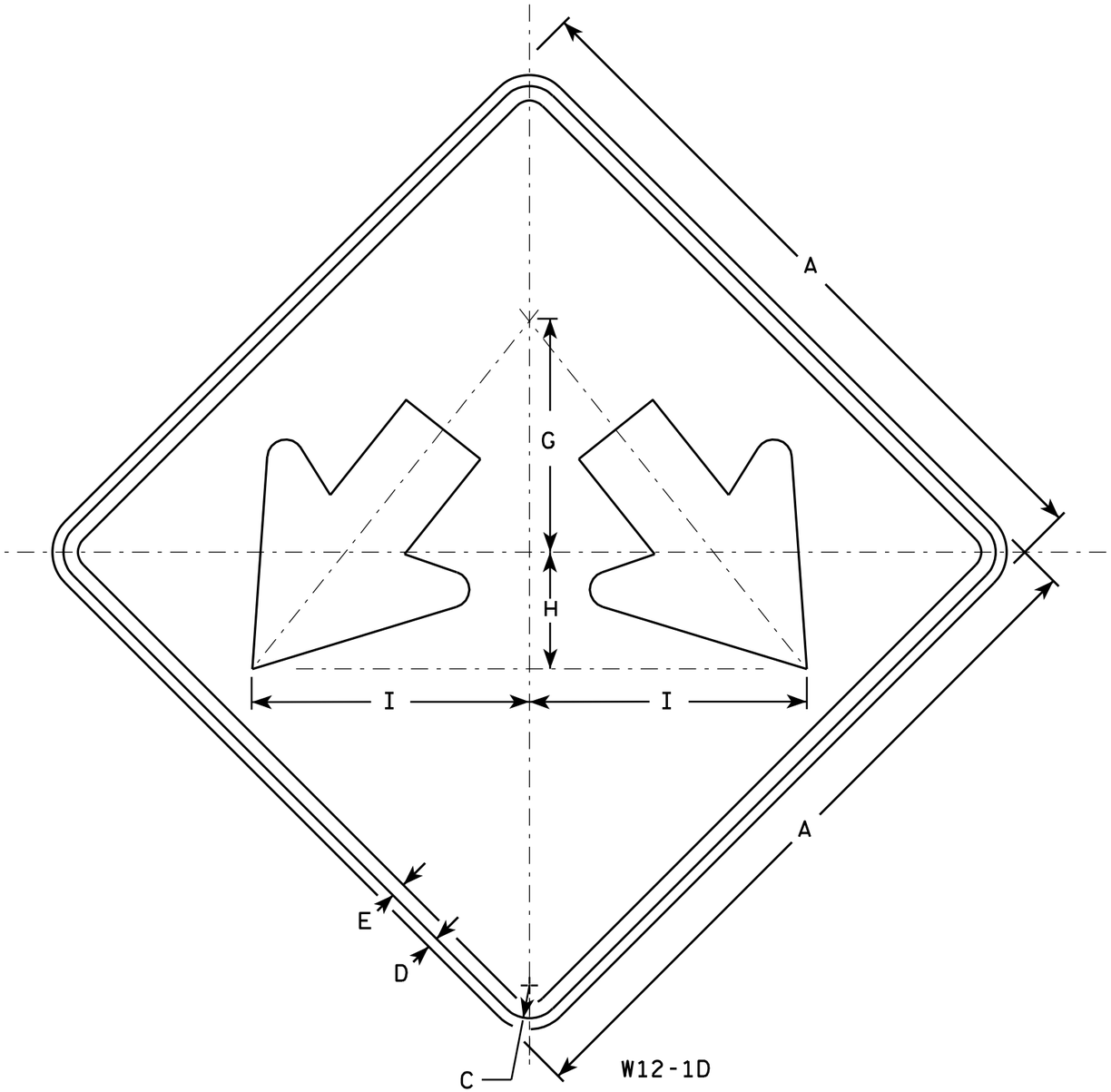
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 261 | E

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

WISDOT/CADDS SHEET 42

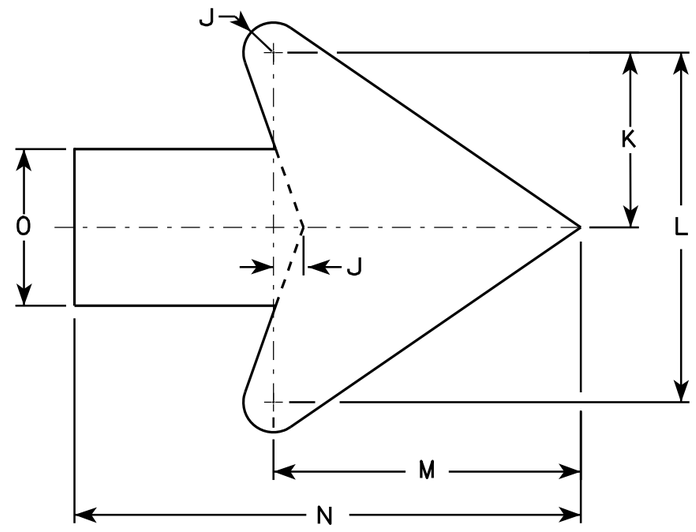
7

7



NOTES

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



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

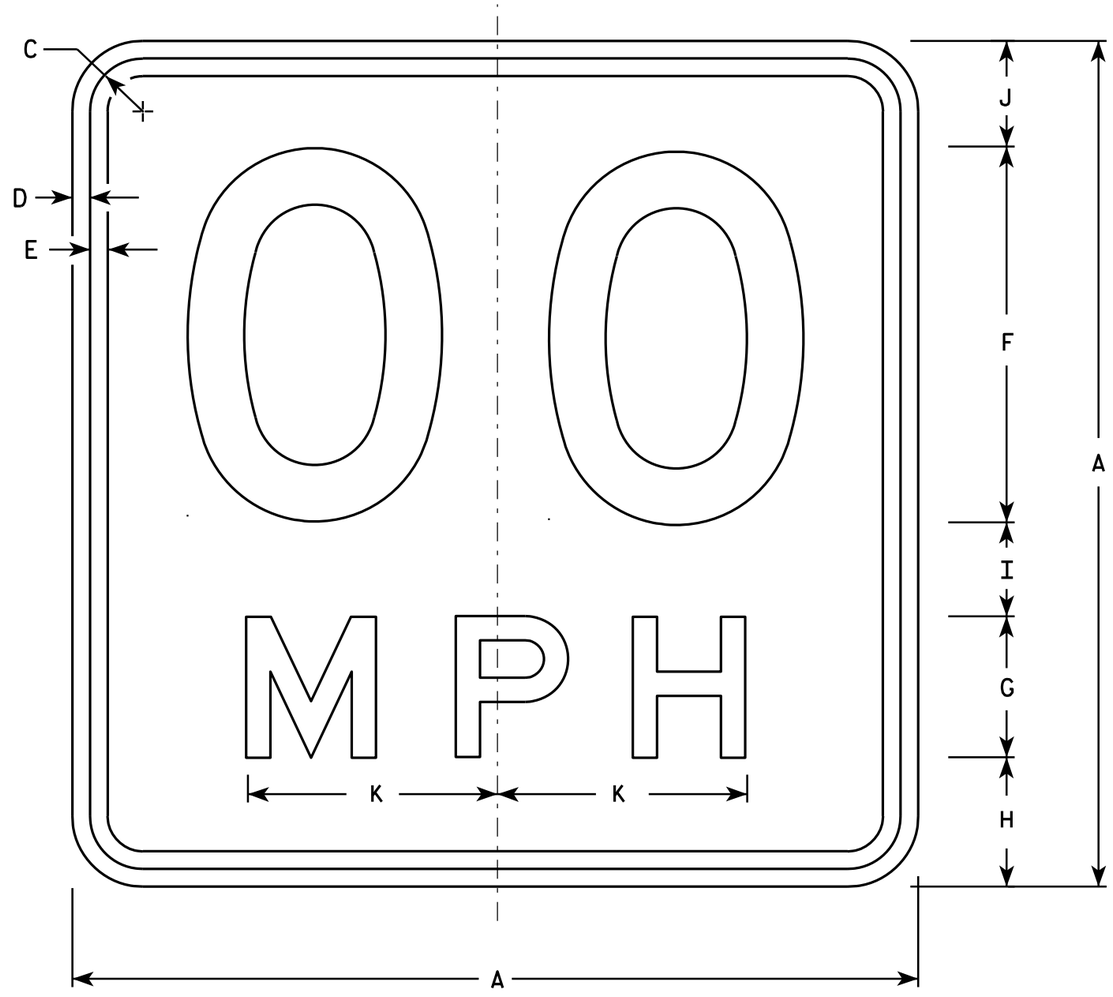
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 262 | E



W13-1

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

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

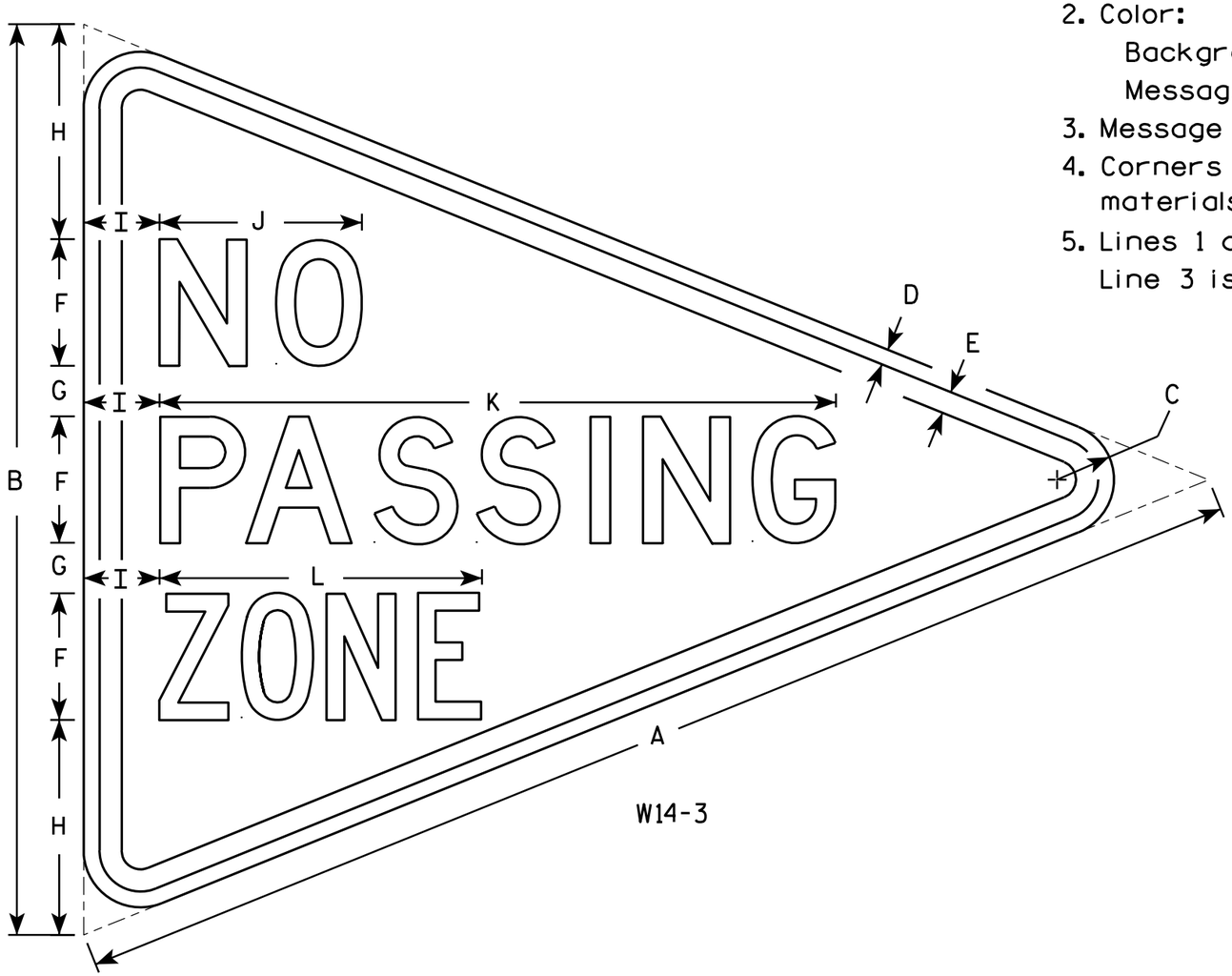
APPROVED Matthew R Rauch
For State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 263 | 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																											

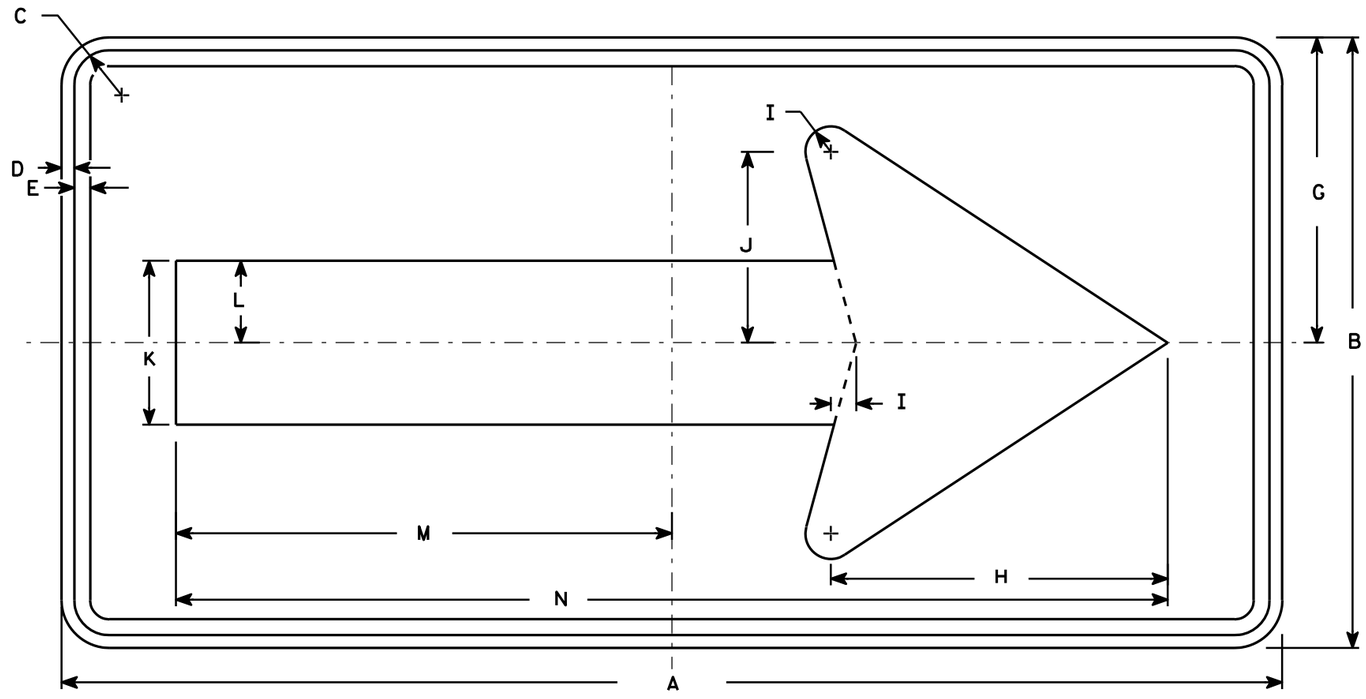
STANDARD SIGN
W14-3

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: 264	E



W1-6

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

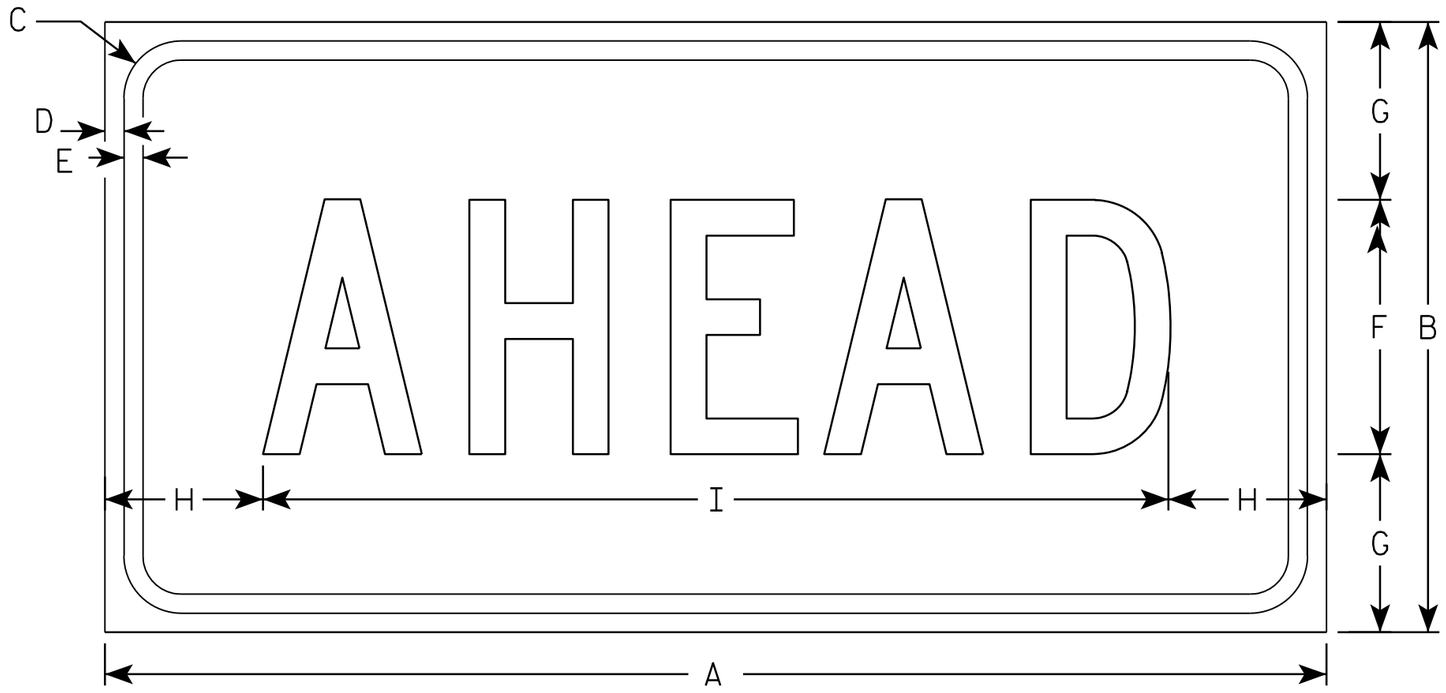
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 265



W16-9P

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

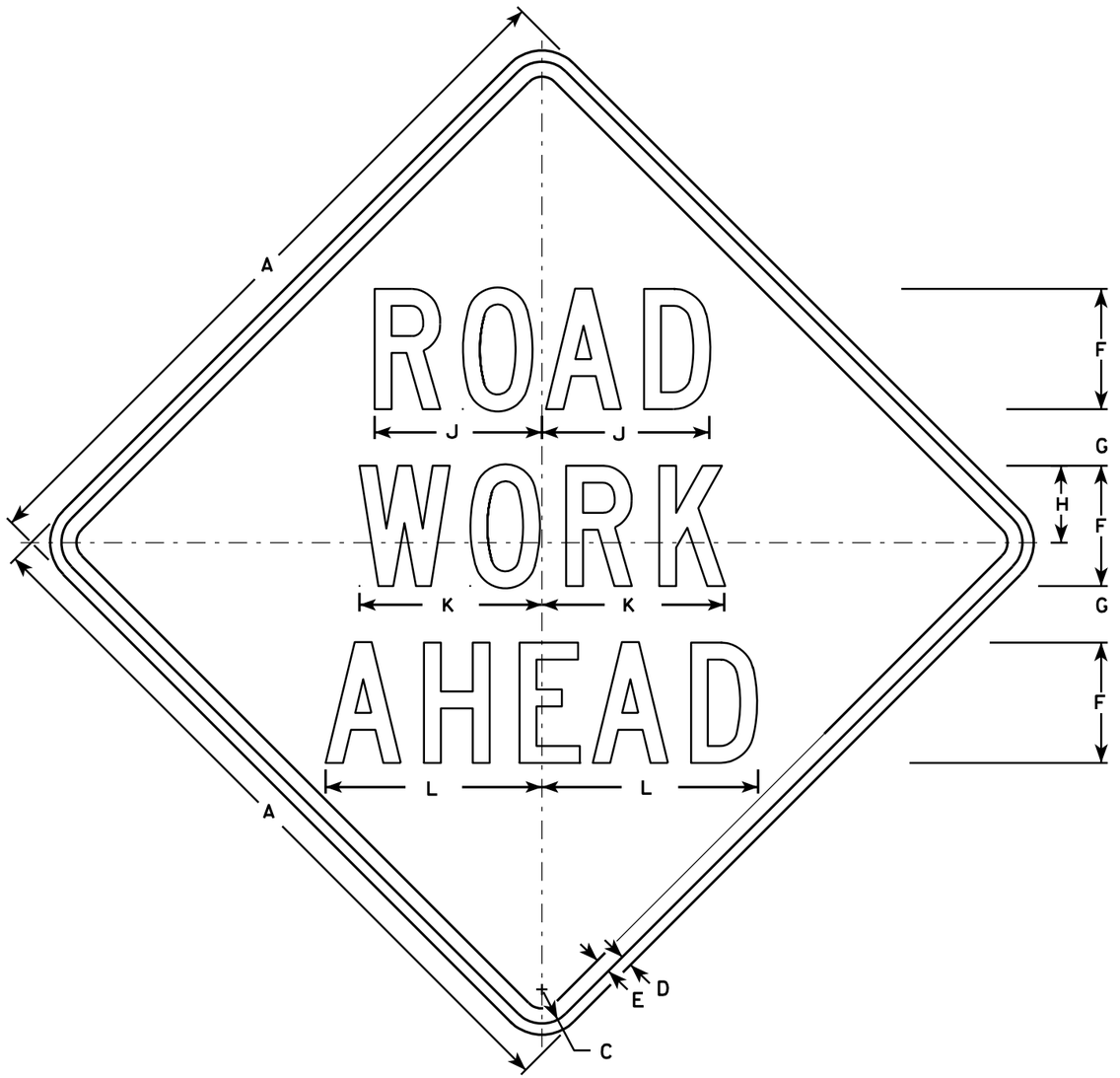
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

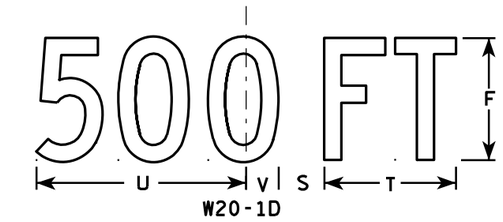
DATE 12/28/10 PLATE NO. W16-9P.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 266 | E

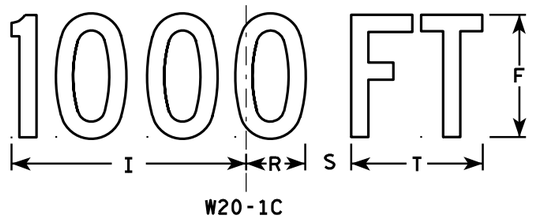
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W169P.DGN PLOT DATE : 28-DEC-2010 13:39 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 2.979524:1.000000
WISDOT/CADDS SHEET 42



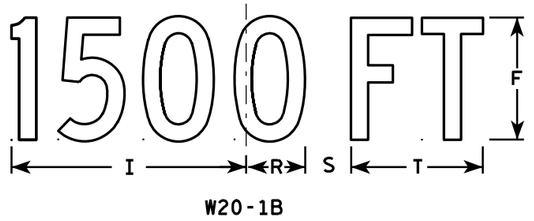
W20-1A



W20-1D

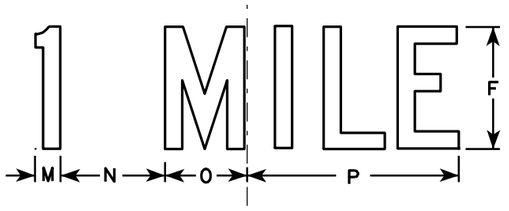


W20-1C



W20-1B

W20-1G



W20-1F

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	1 7/8	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-1.9

PROJECT NO:

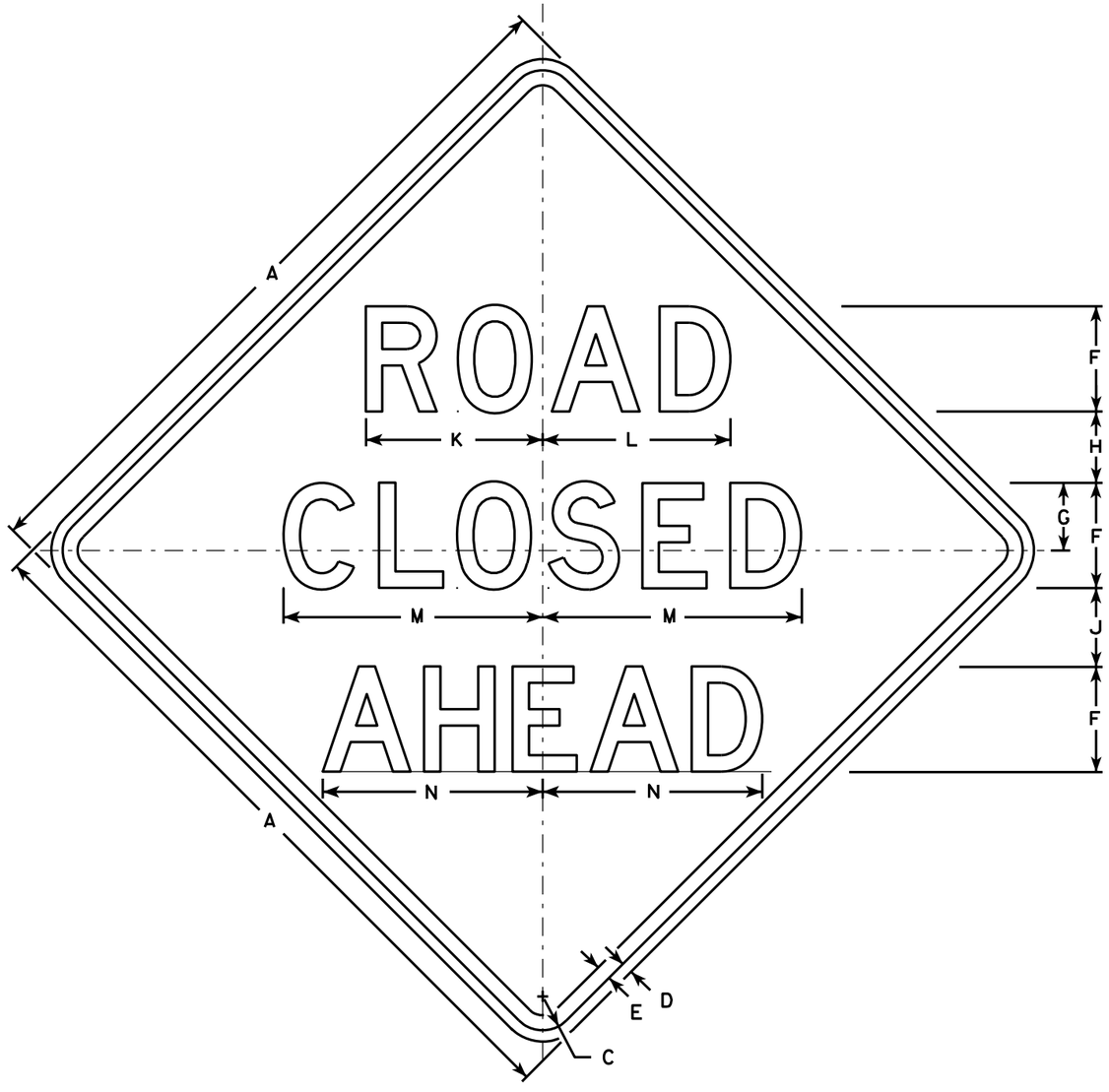
SHEET NO: 267 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W201.DGN PLOT DATE : 18-MAR-2011 09:56 PLOT BY : mscj9h

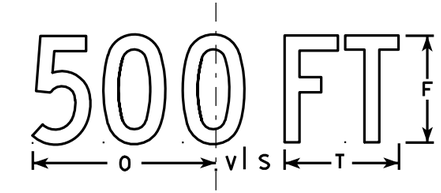
WISDOT/CADDS SHEET 42

7

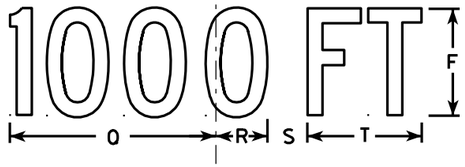
7



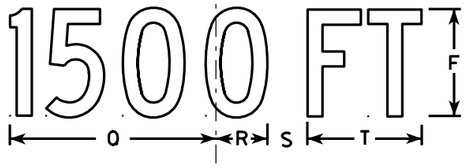
W20-3A



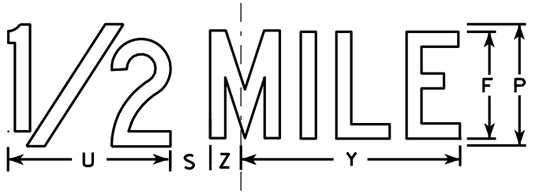
W20-3D



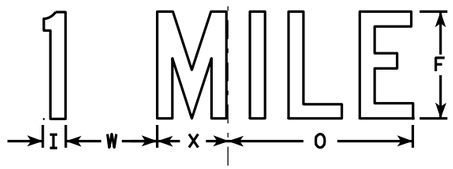
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

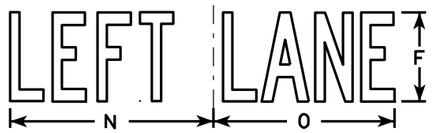
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 268 | E

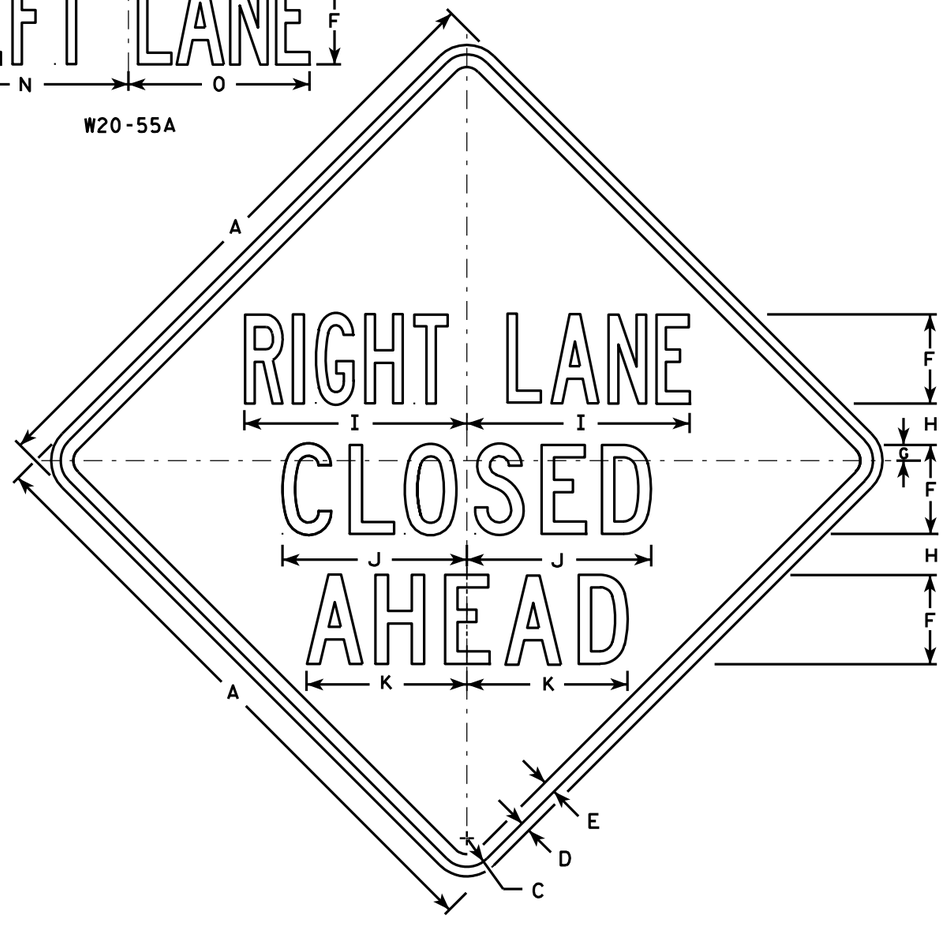
7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42

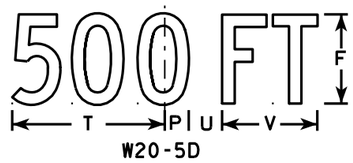
W20-56A



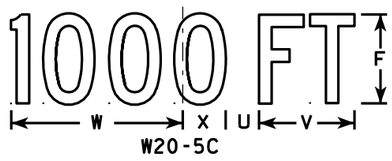
W20-55A



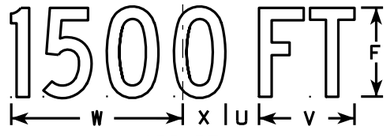
W20-5A



W20-5D

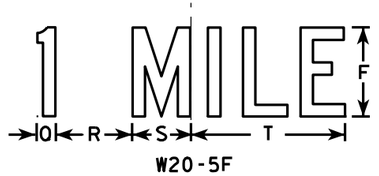


W20-5C



W20-5B

W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is 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	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

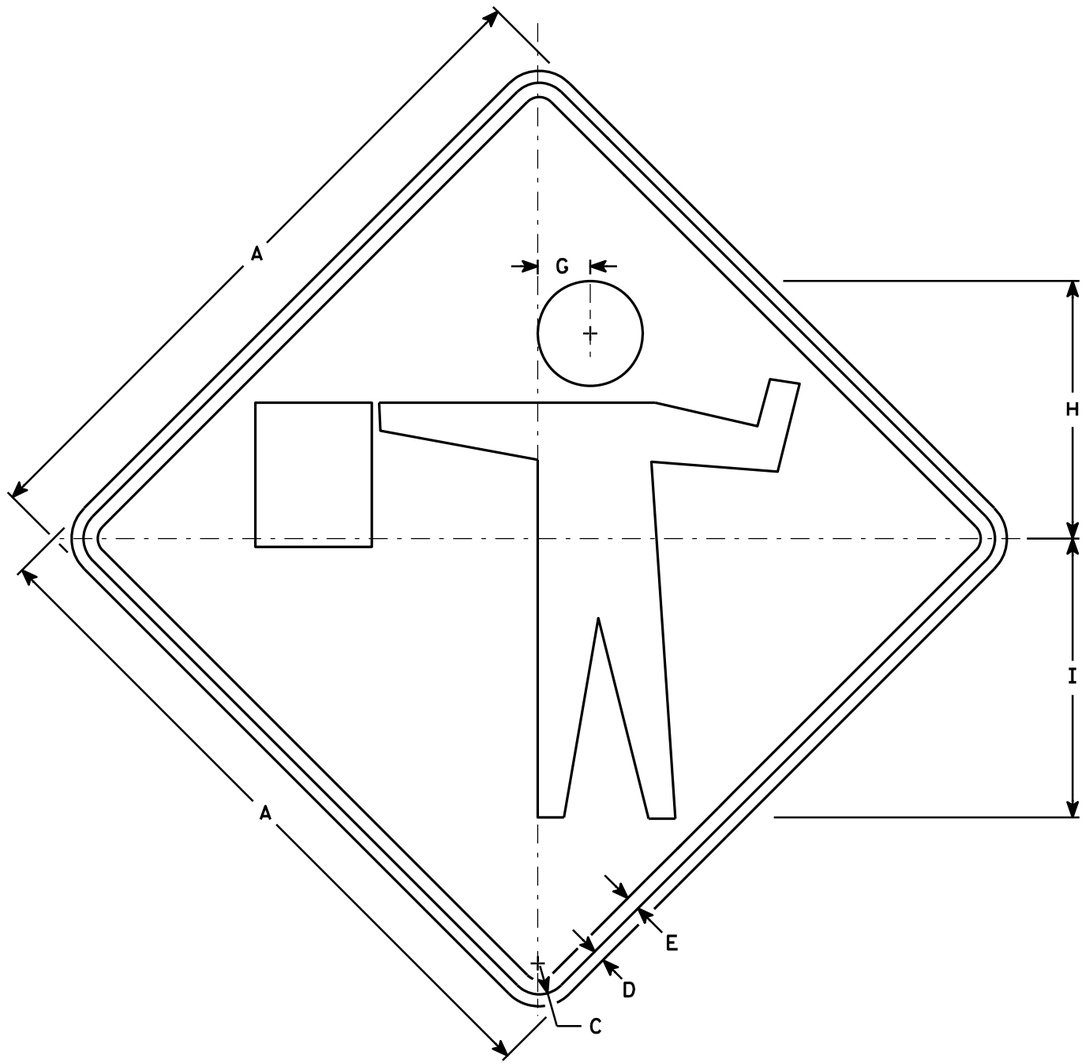
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 269 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W20-7A

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.00
2S	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
2M	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
3	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
4	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
5	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00

STANDARD SIGN
W20-7A

WISCONSIN DEPT OF TRANSPORTATION

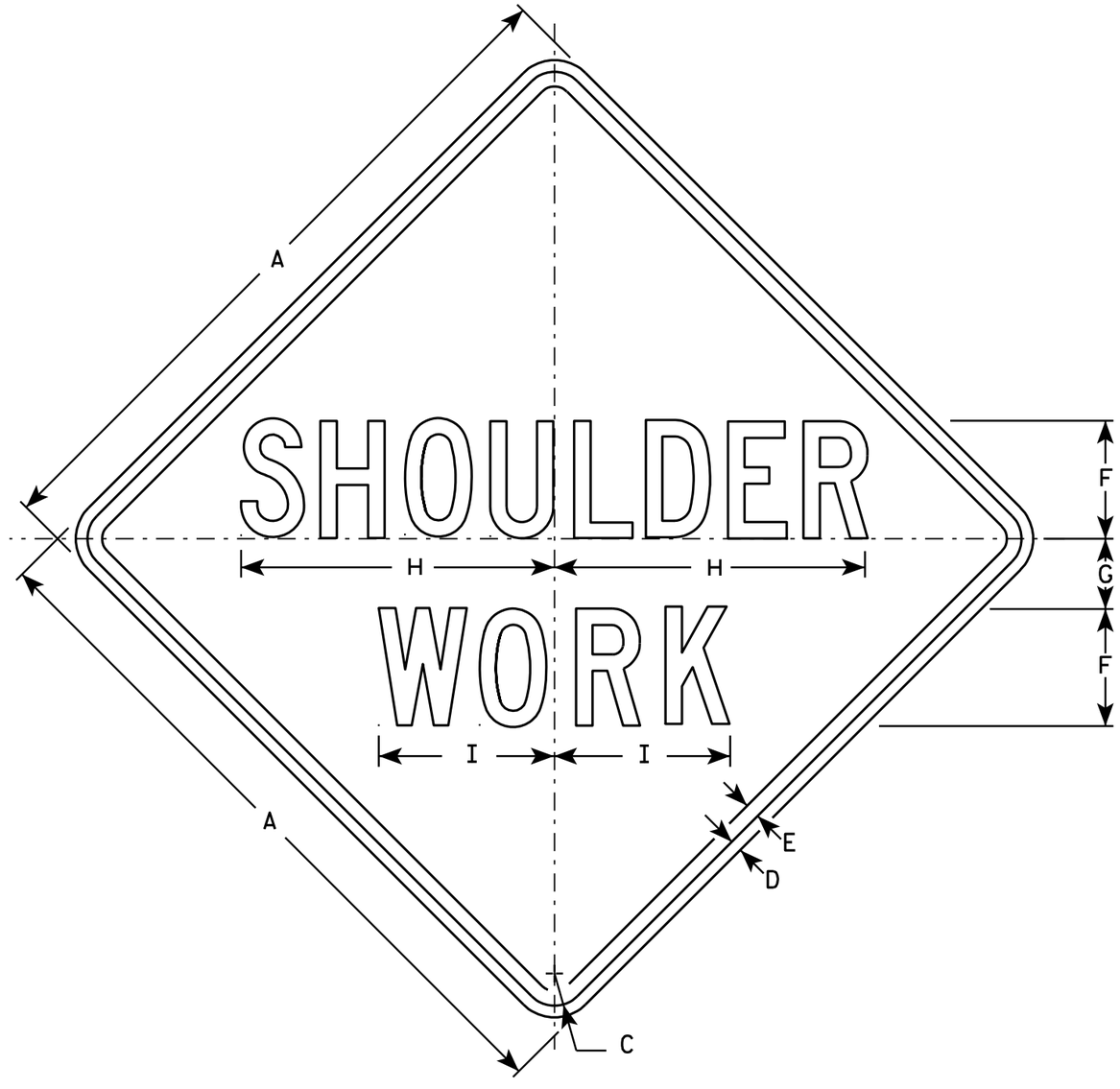
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-7A.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 270 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W207A.DGN PLOT DATE : 18-MAR-2011 13:14 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.945391:1.000000 WISDOT/CADDS SHEET 42



W21-5

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2 1/2	10 3/4	6																		4.0
2S	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

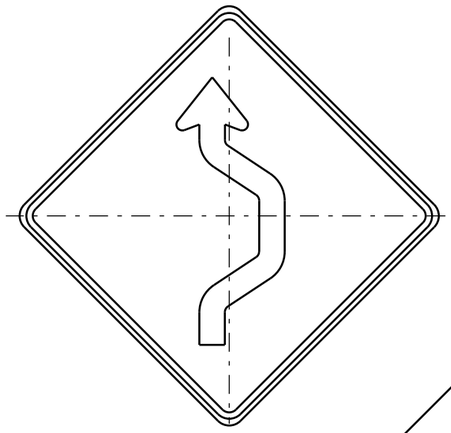
STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

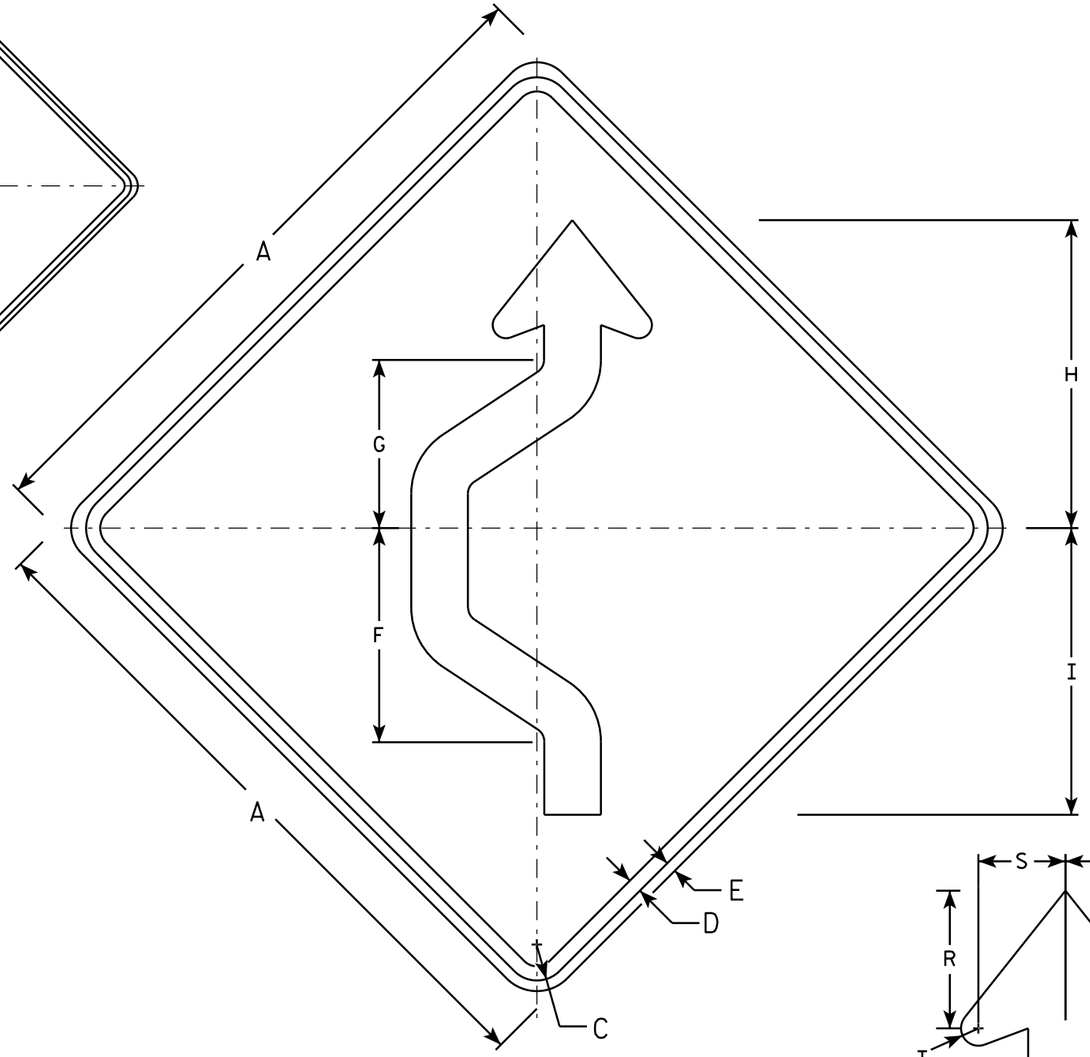
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5.5

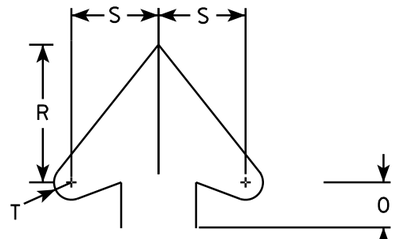
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 271	E



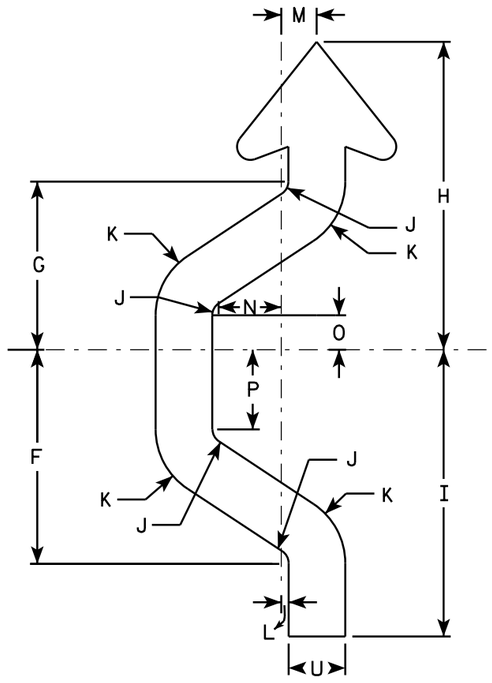
W24-1R



W24-1L



Arrowhead Detail



Arrow Detail

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W24-1R is the same as W24-1L except reversed along the vertical centerline.

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

STANDARD SIGN
W24-1 L & R

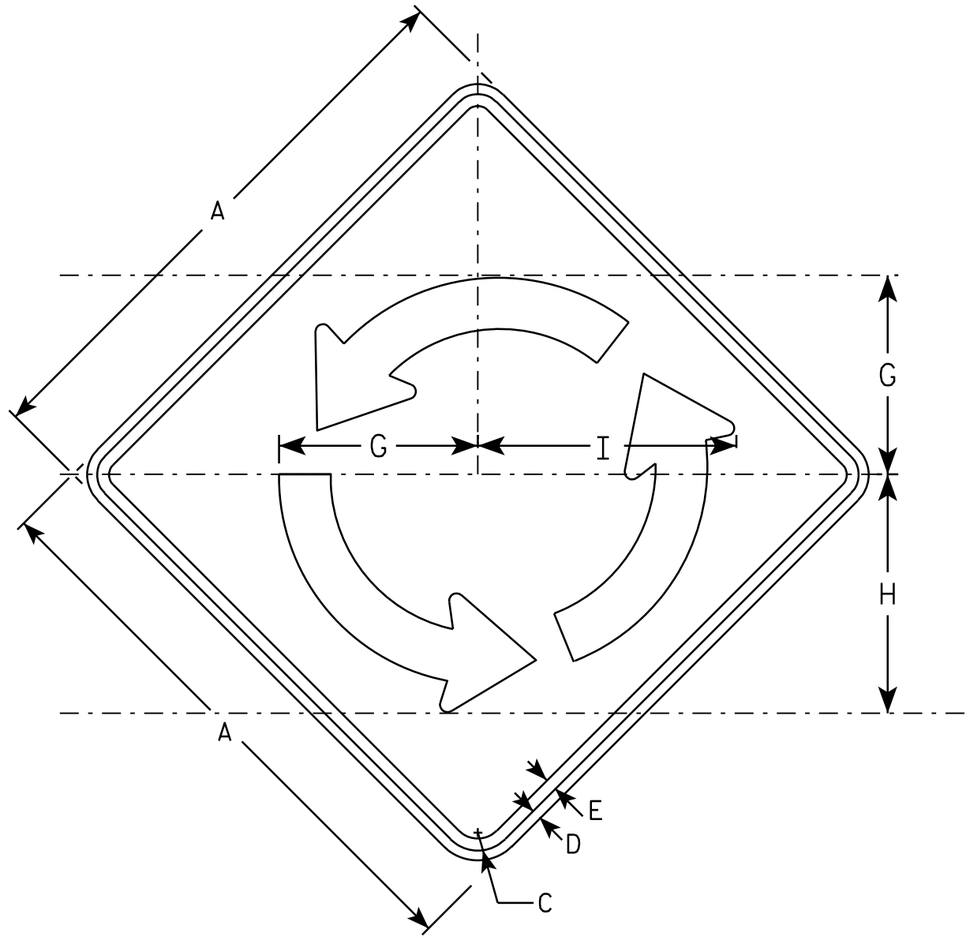
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/25/2013 PLATE No. 24-1.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

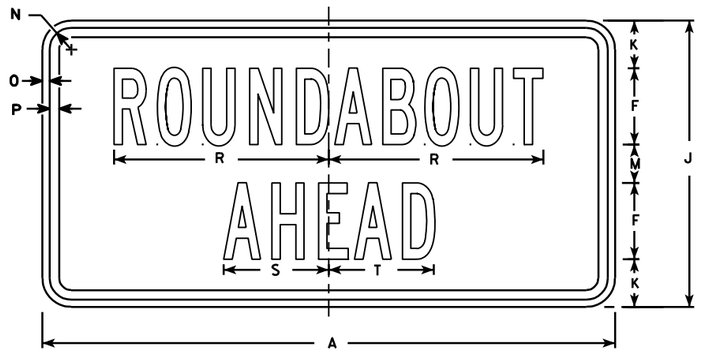
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W241L.DGN PLOT DATE : 25-SEP-2013 13:00 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 10.702132:1.000000 WISDOT/CADDS SHEET 42



W2-6

NOTES

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



W2-6P

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	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

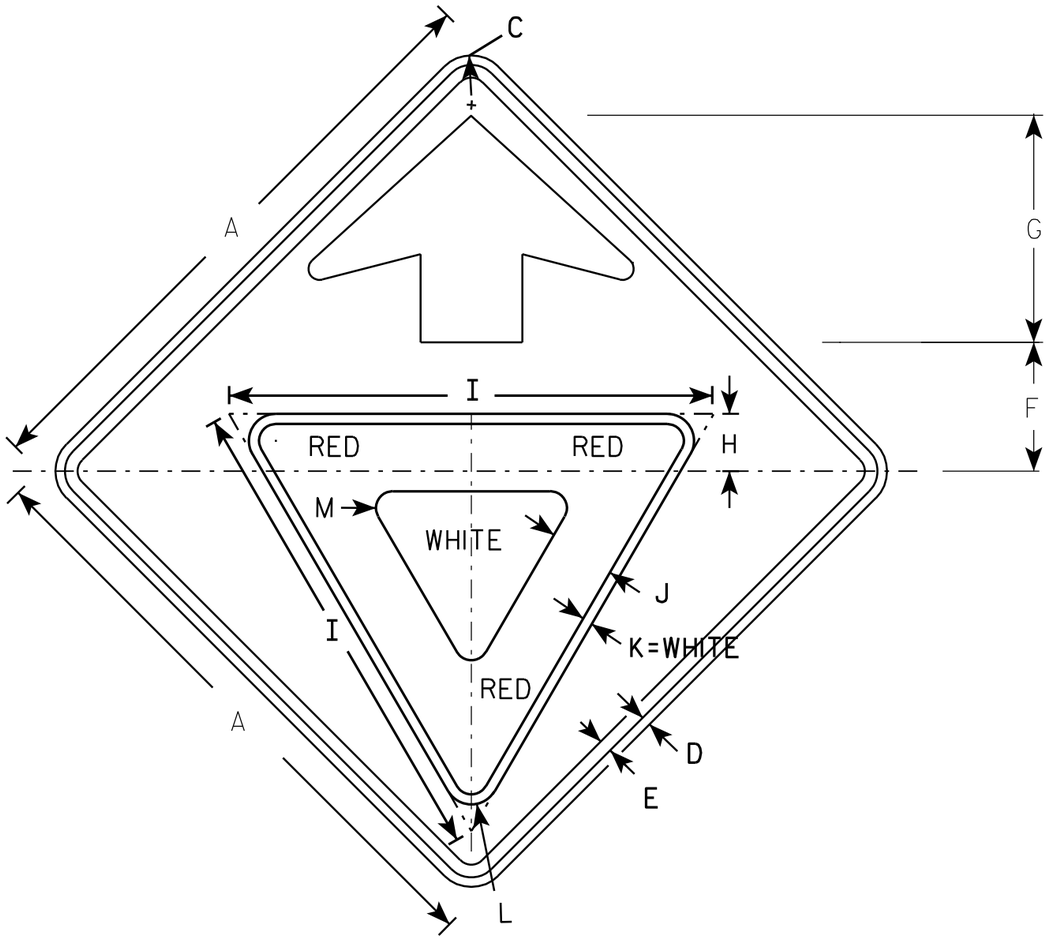
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

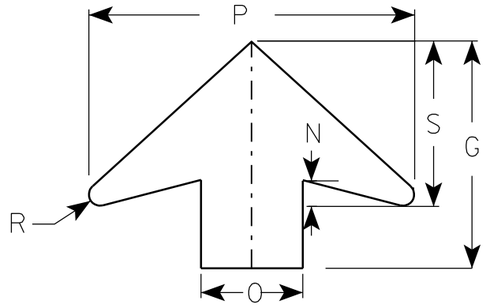
SHEET NO: 273 E



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

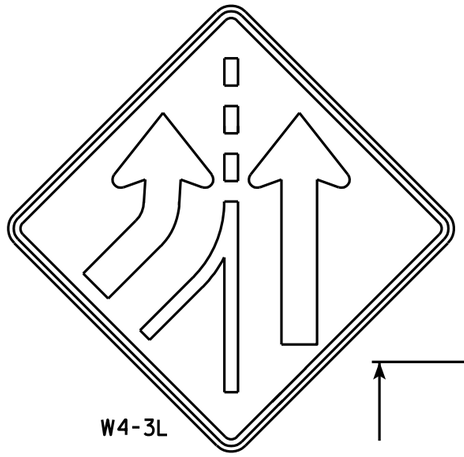
WISCONSIN DEPT OF TRANSPORTATION

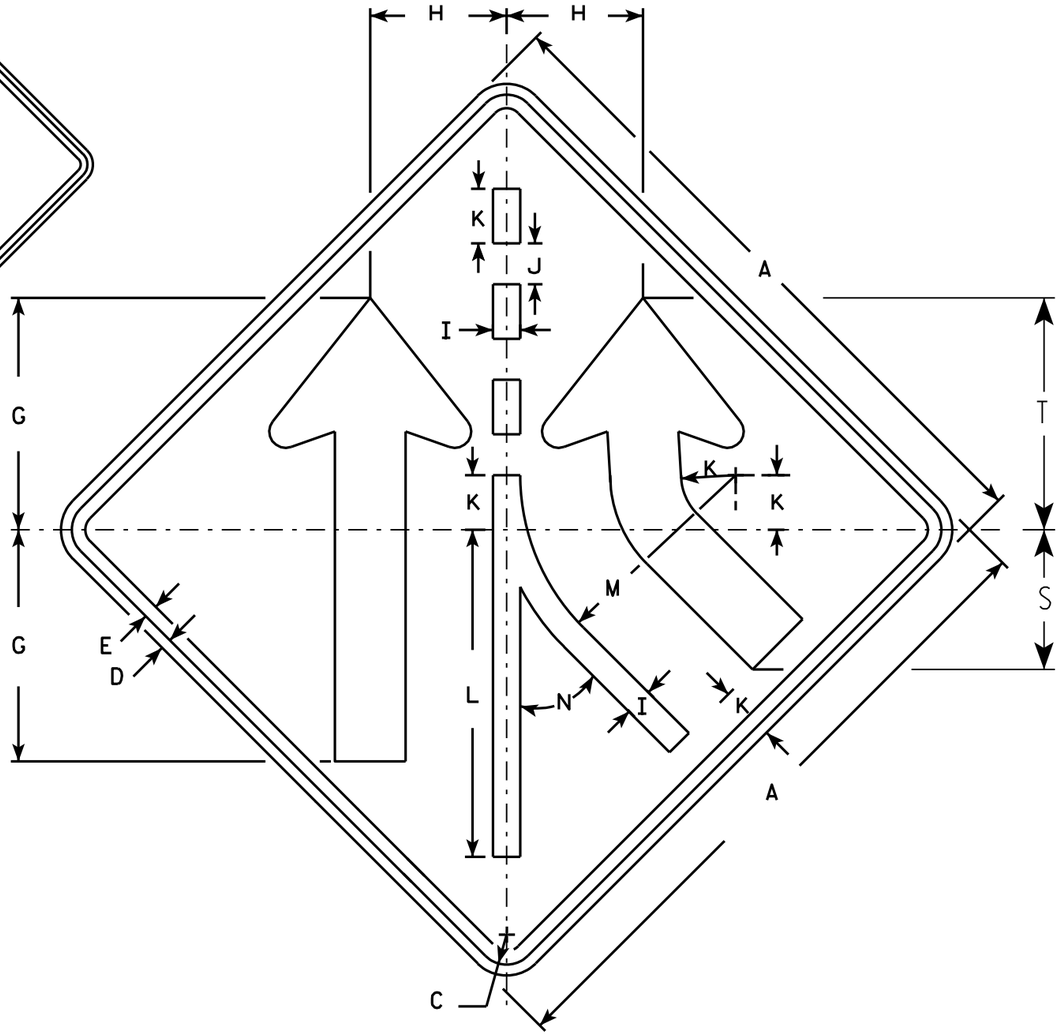
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

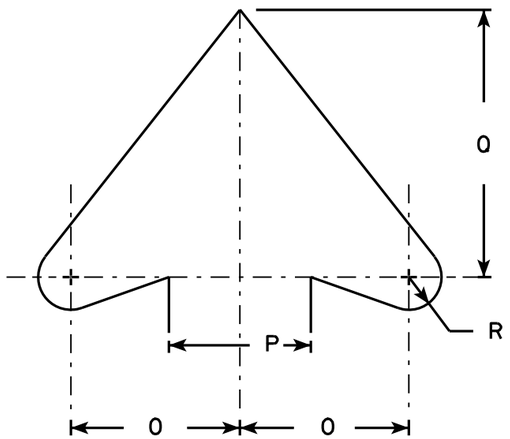
SHEET NO: 274 E





NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-3 L is the same as W4-3 R except the arrow is reversed along the vertical centerline.



ARROW DETAIL

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	30		1 3/8	1/2	5/8		10 5/8	6 1/4	1 1/4	1 7/8	2 1/2	15	9 7/8	45°	3 7/8	3 1/4	6 1/8	3/4	6 3/8	10 5/8							6.25
2S	36		1 5/8	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 7/8	45°	4 5/8	4	7 3/8	7/8	7 3/4	12 3/4							9.0
2M	36		1 5/8	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 7/8	45°	4 5/8	4	7 3/8	7/8	7 3/4	12 3/4							9.0
3																											
4	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
5	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0

STANDARD SIGN
W4-3

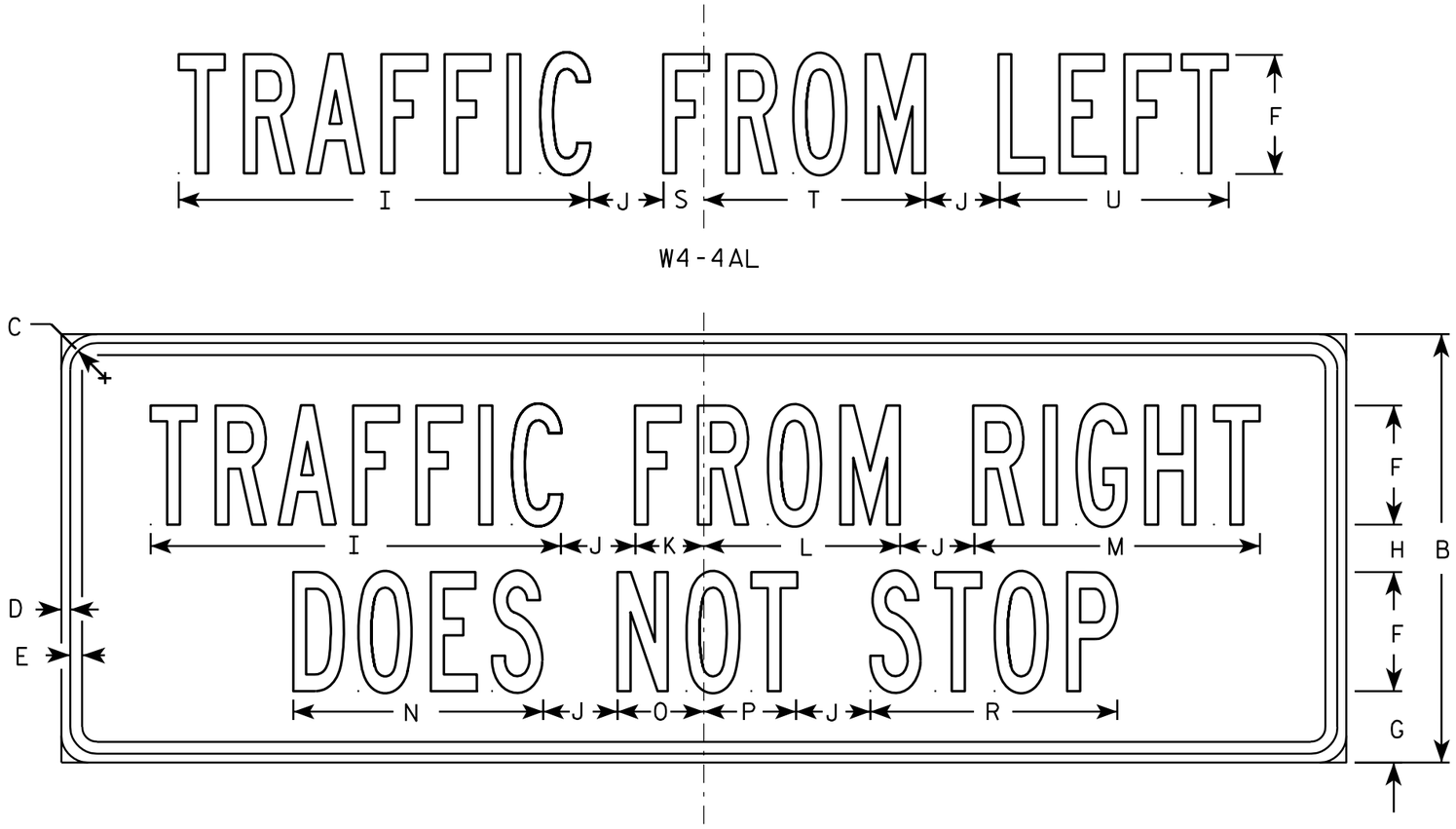
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-3.8

PROJECT NO:

SHEET NO: 275 E



W4-4AL

W4-4AR

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 - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	1 3/4	4 7/8	7 1/4	6 1/4	2 1/4	2 1/4		6 1/4	1	5 5/8	5 3/4						2.5
2M	30	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	1 3/4	4 7/8	7 1/4	6 1/4	2 1/4	2 1/4		6 1/4	1	5 5/8	5 3/4						2.5
3	42	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	13 7/8	2 3/8	2 1/8	6 3/4	9 3/4	8 3/8	2 3/4	3 3/8		8 3/8	1 1/8	7 3/4	7 3/4						4.4
4	54	18	1 1/8	3/8	1/2	5	3	2	17 1/4	3 1/8	2 7/8	8 1/4	12	10 1/2	3 5/8	3 7/8		10 3/8	1 3/4	9 3/8	9 5/8						6.8
5																											

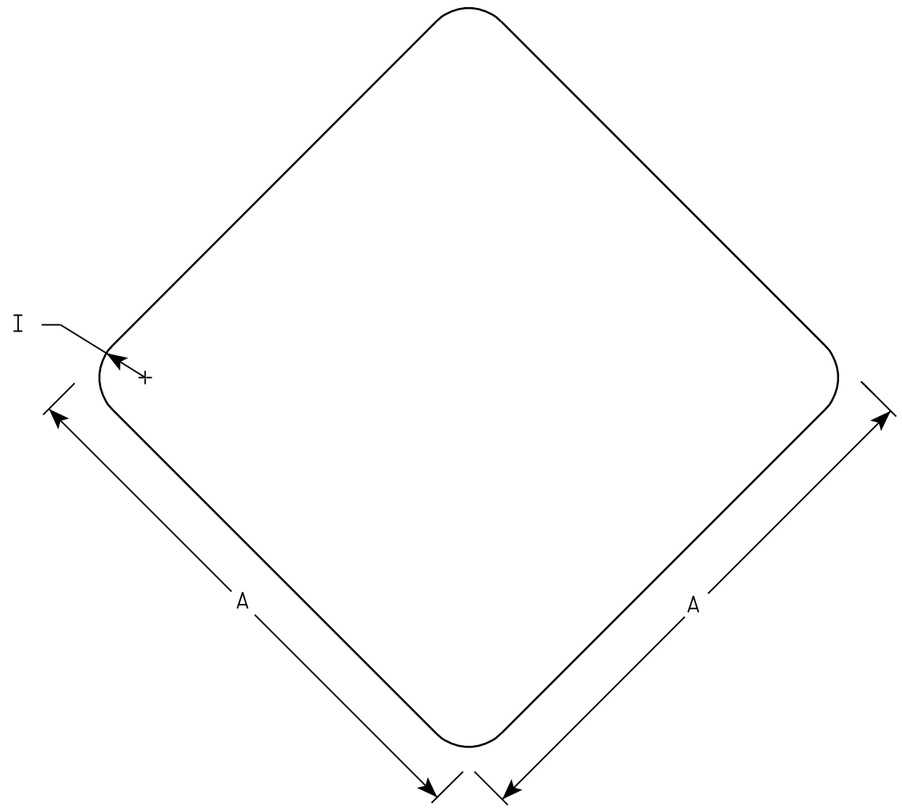
STANDARD SIGN
W4-4AL & W4-4AR

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 276 | E



W5-54

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
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

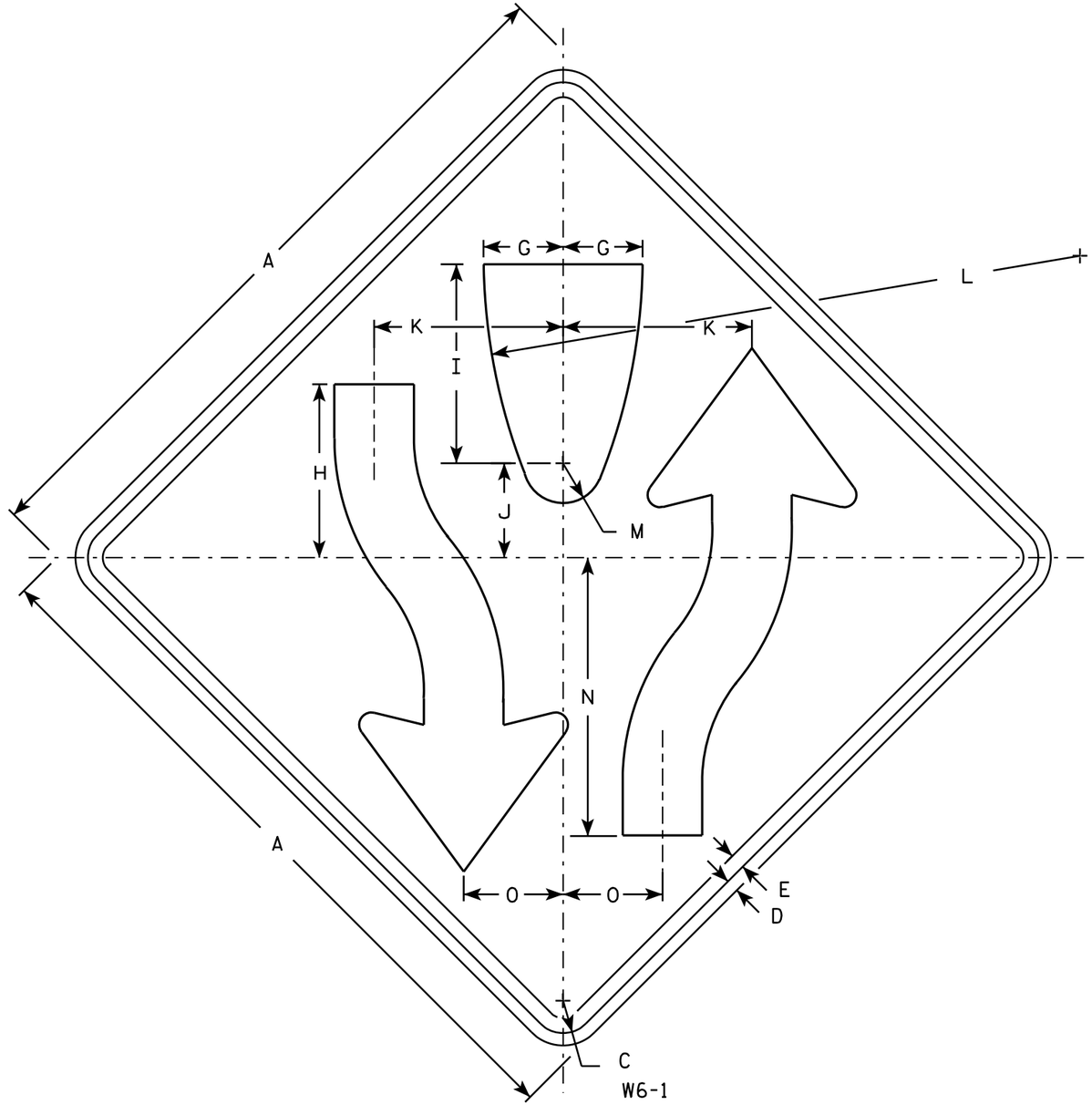
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

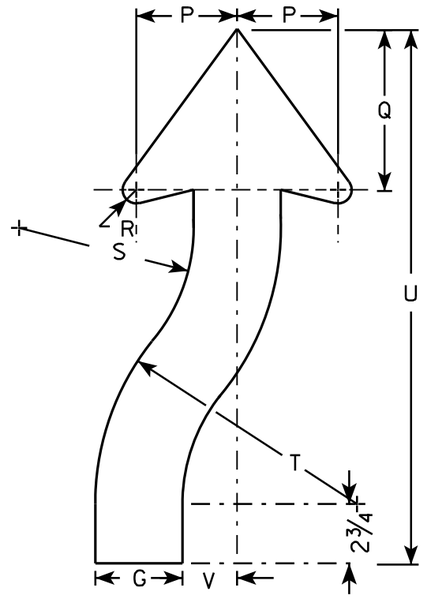
DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 277 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

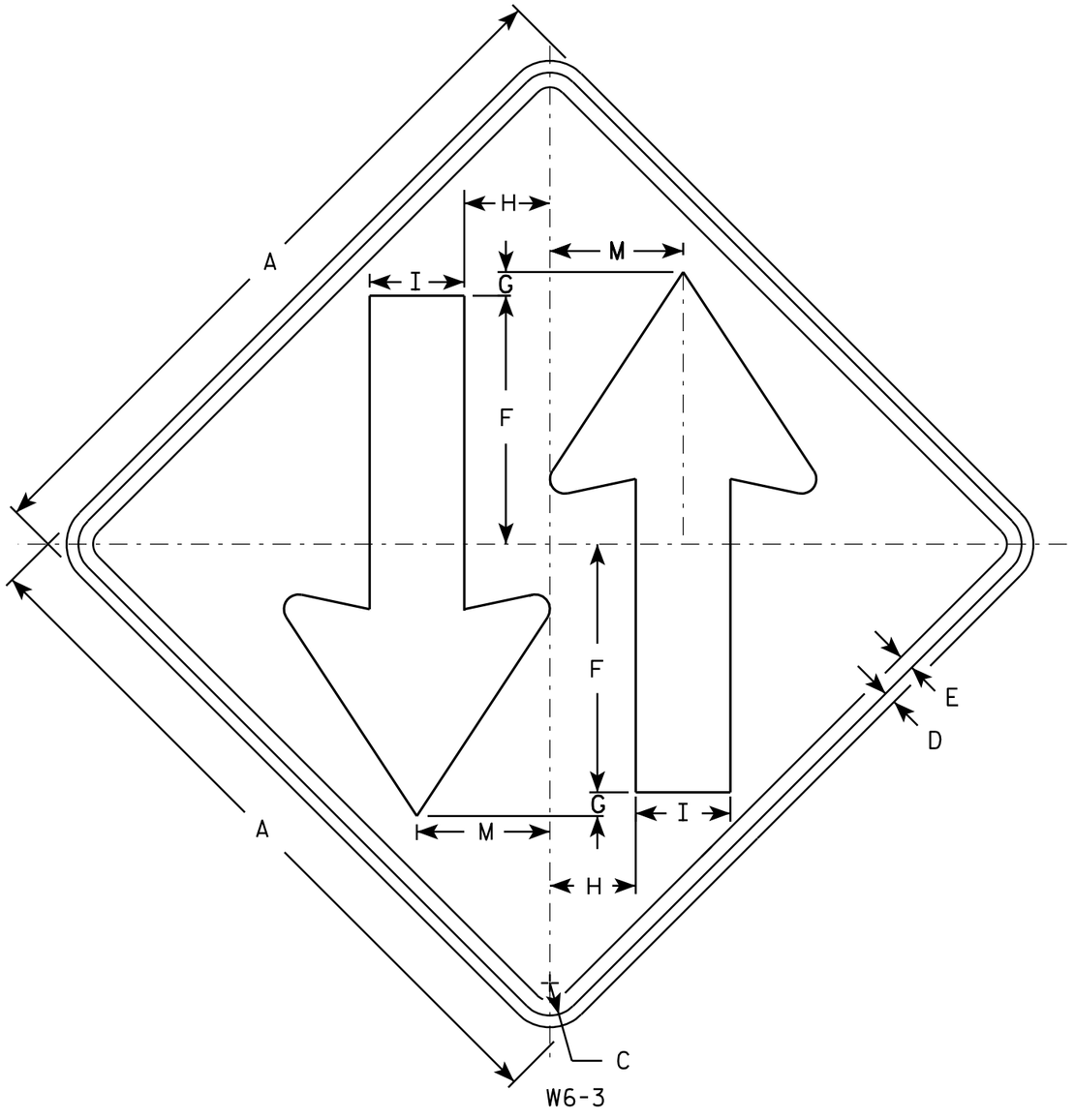
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 278	E

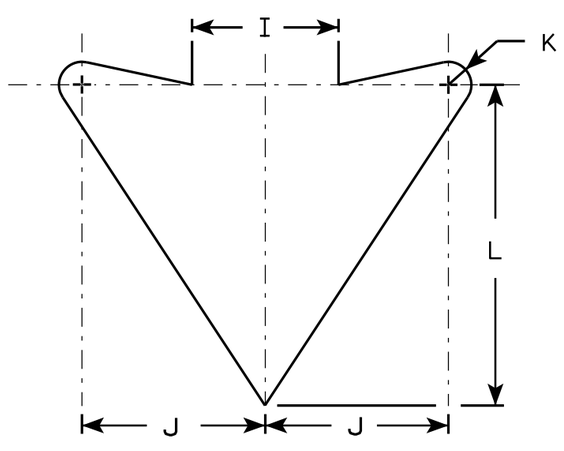
7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10 1/2	1	3 5/8	4	5	5/8	8 3/4	5 5/8														6.25
2S	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2M	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
3																											
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

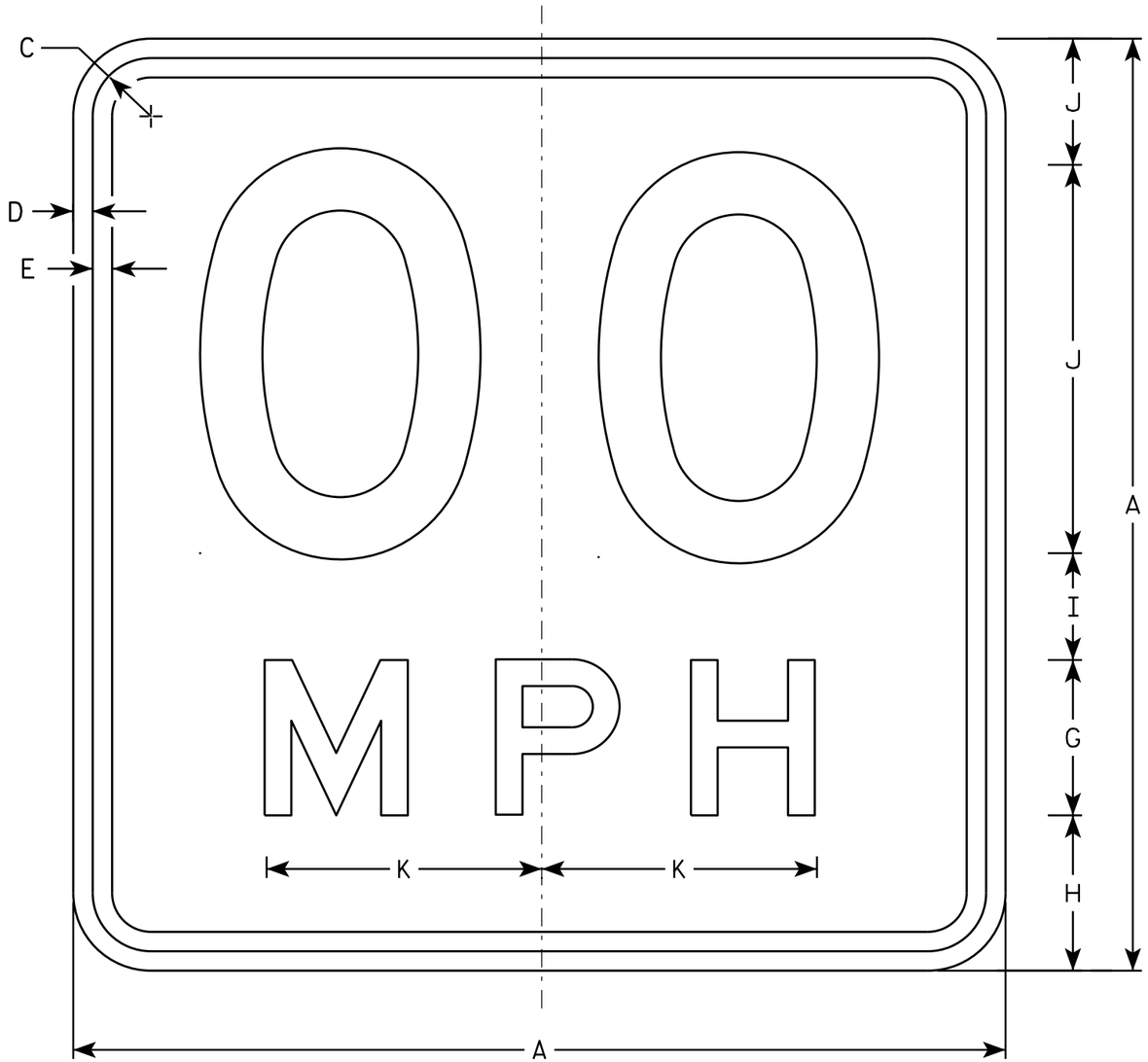
STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-3.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 279	E



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

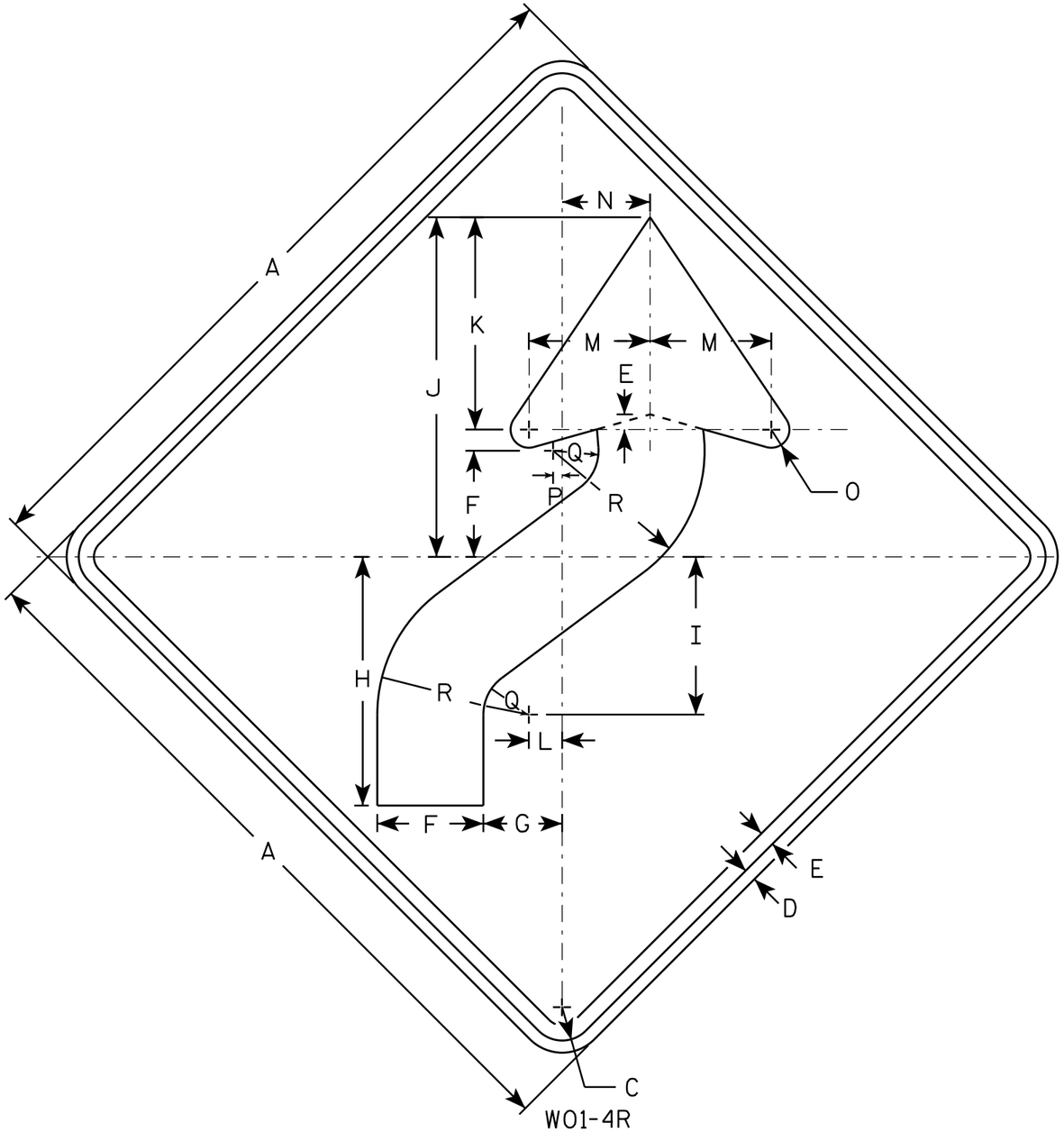
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/13 PLATE 280 W013-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W0131.DGN PLOT DATE : 02-DEC-2013 13:55 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.794391:1.000000
WISDOT/CADDS SHEET 42



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

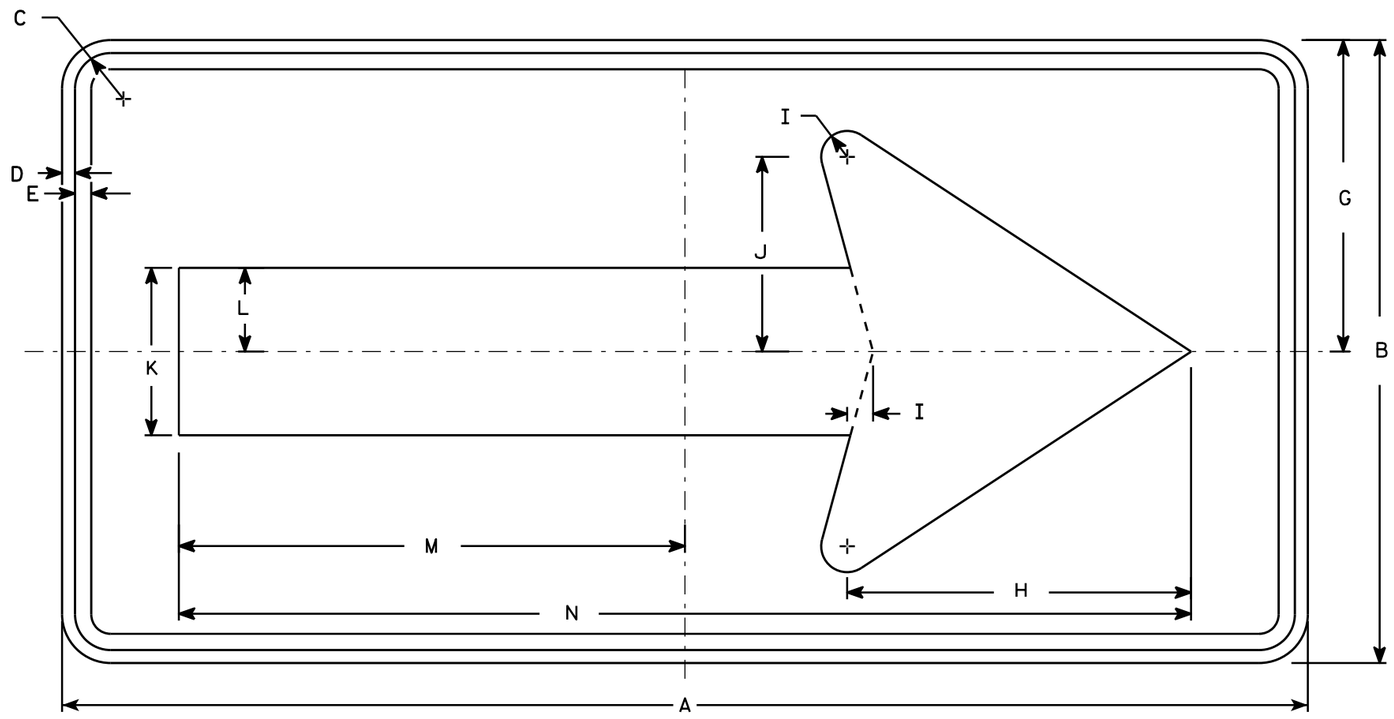
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W01-6

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

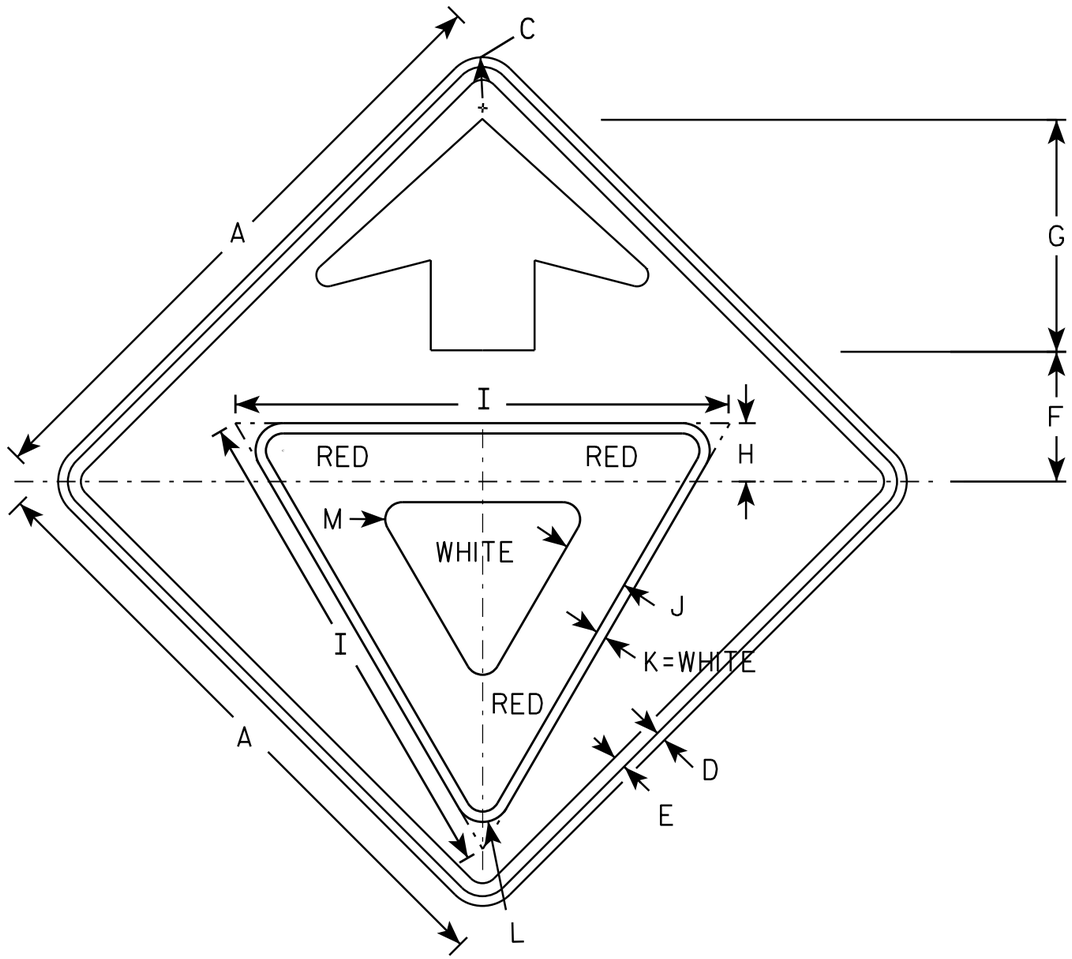
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

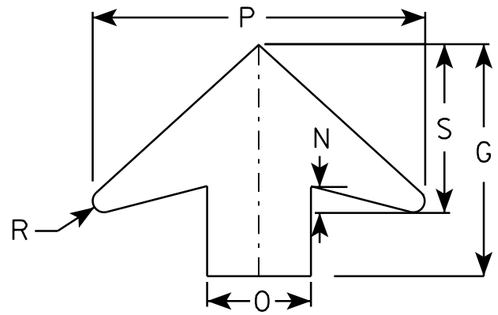
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W03-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2S	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
2M	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
3	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

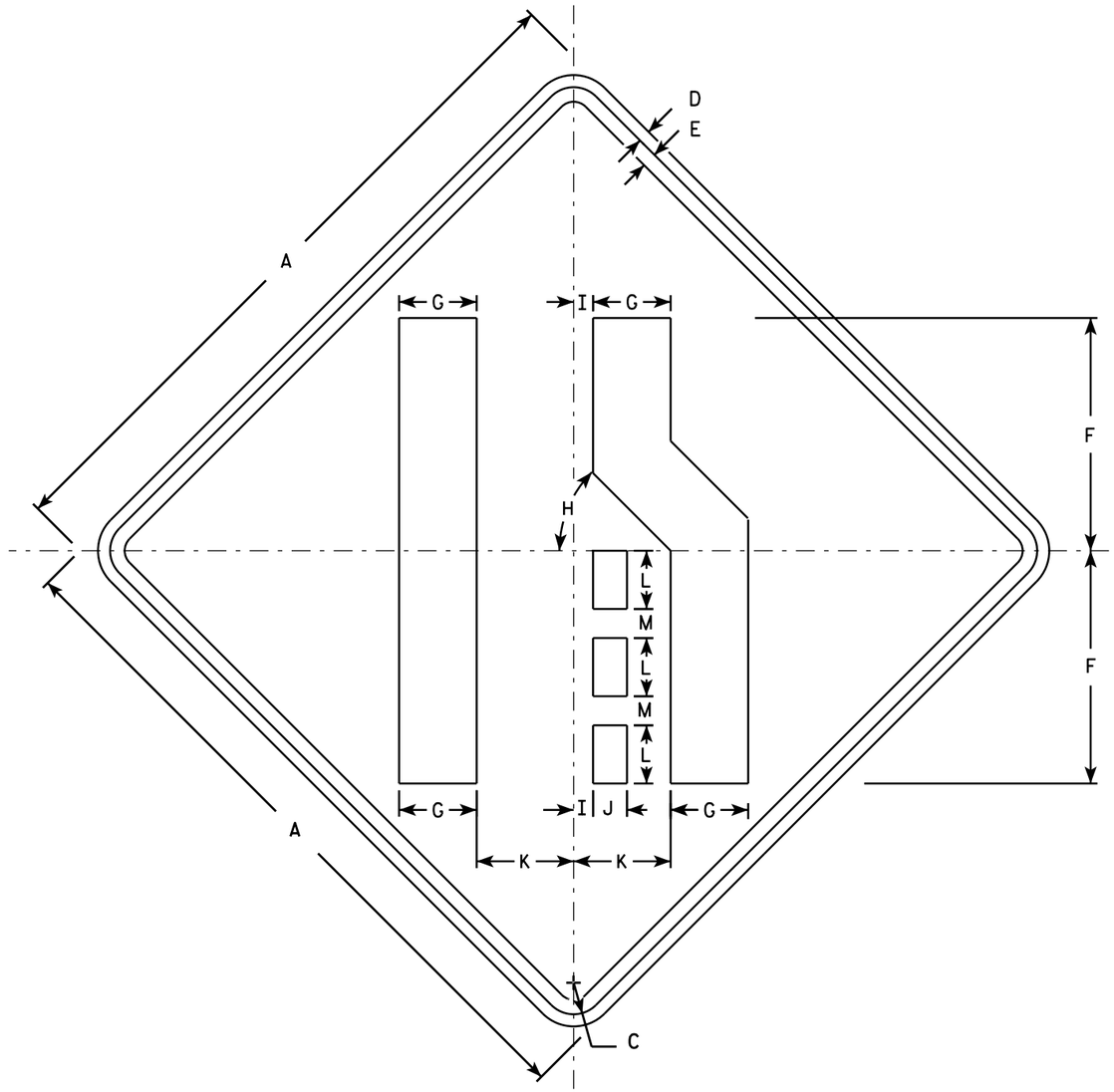
STANDARD SIGN
W03-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W03-2.1

PROJECT NO: SHEET NO: E



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

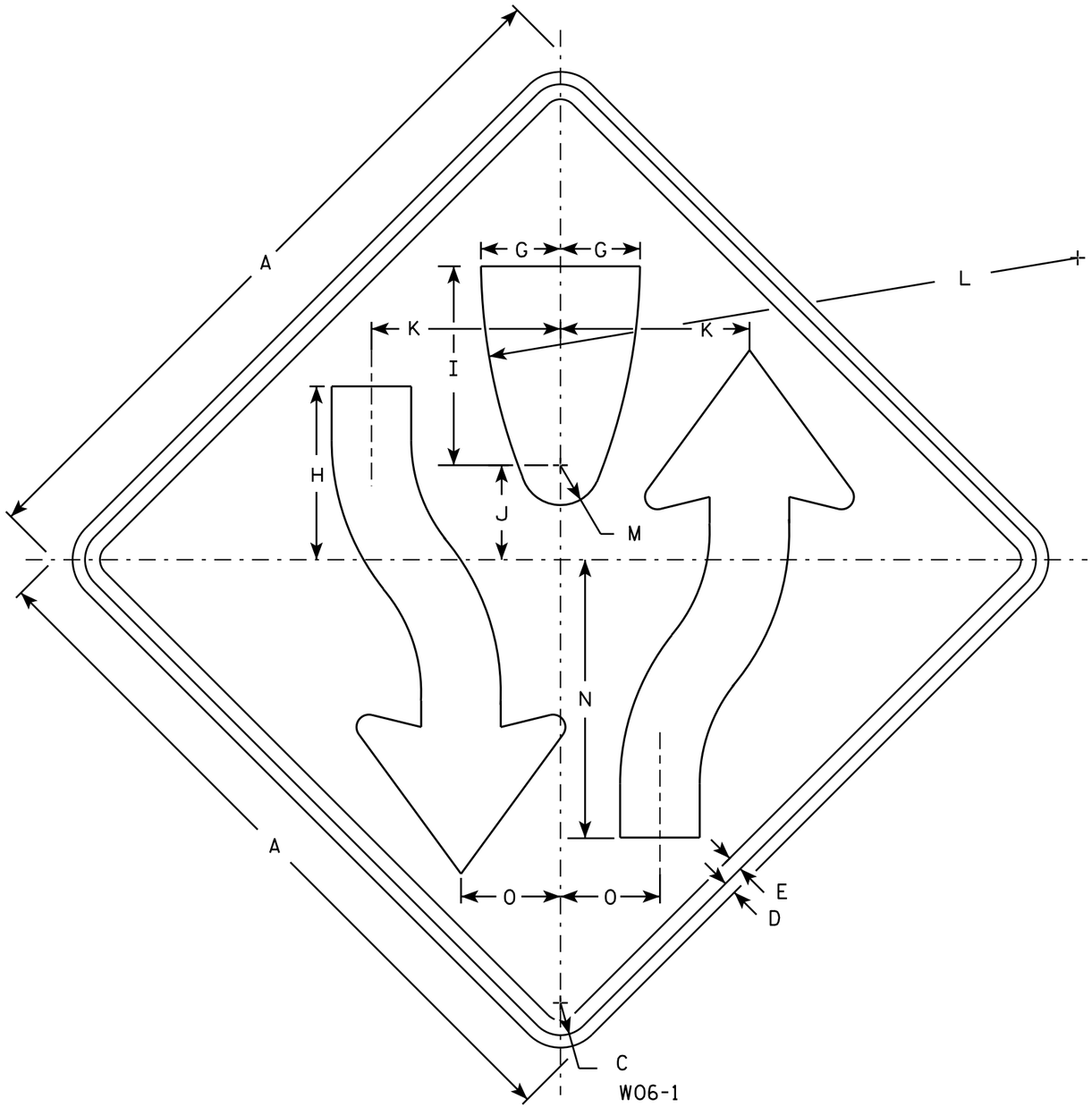
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 284 W04-2.1

PROJECT NO:

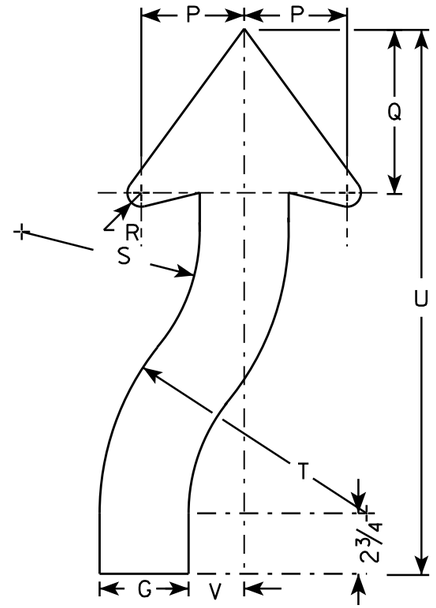
SHEET NO: E



W06-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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. W06-2 same as W06-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2S	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
2M	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
3	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W06-1 & W06-2

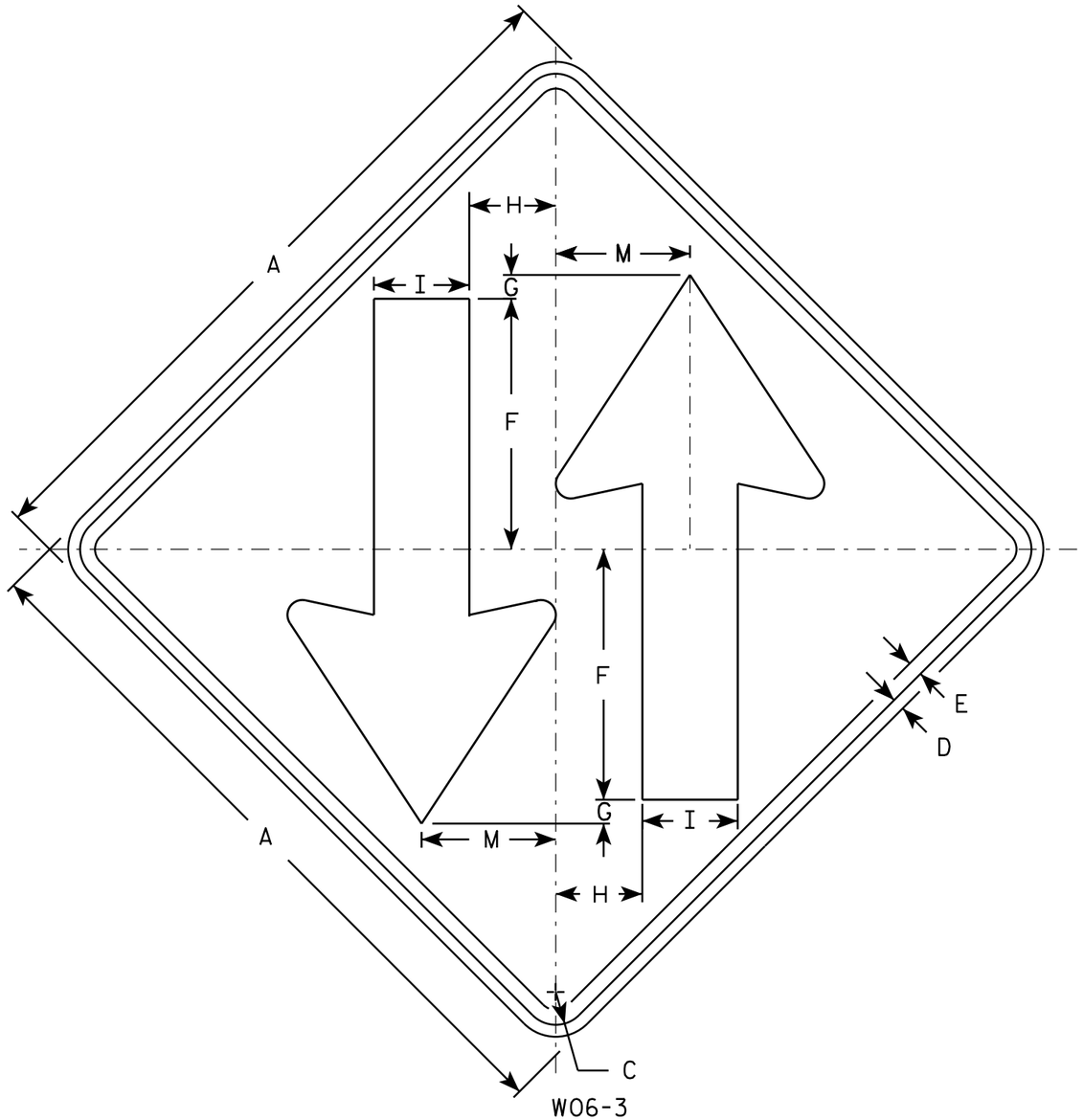
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO W06-1.1

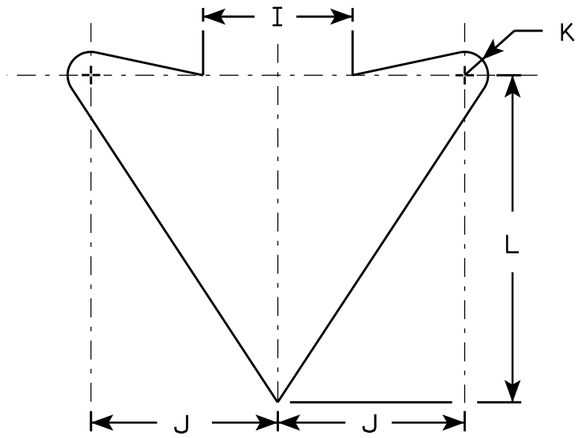
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W061.DGN PLOT DATE : 20-NOV-2013 12:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.810449:1.000000
WISDOT/CADDS SHEET 42



NOTES

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



ARROW DETAIL

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

STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 286 W06-3.1

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

TW1 STAGE 1

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
10+00.00	0.00	0.00	0.00	0.00	0.00
10+50.00	8.20	7.60	0.00	0.00	7.60
11+00.00	13.30	19.90	0.00	0.00	27.40
11+50.00	13.10	24.40	2.80	2.60	49.20
12+00.00	12.40	23.50	12.10	13.80	58.90
12+50.00	18.60	28.70	11.30	21.70	65.90
13+00.00	10.90	27.30	18.10	27.20	66.00
13+50.00	10.20	19.50	16.00	31.50	54.00
14+00.00	10.80	19.50	14.50	28.20	45.20
14+50.00	10.00	19.30	16.70	28.90	35.60
15+00.00	9.90	18.50	15.70	30.00	24.10
15+50.00	10.70	19.10	9.70	23.40	19.80
16+00.00	17.30	26.00	7.80	16.10	29.70
16+50.00	11.70	26.90	15.90	21.90	34.70
17+00.00	12.30	22.30	16.00	29.50	27.50
17+50.00	11.00	21.60	15.50	29.20	19.90
18+00.00	0.00	10.10	4.20	18.20	11.80
Sub Total:		334.20		322.20	

TW2 STAGE 1

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
0+00.00	0.00	0.00	0.00	0.00	0.00
1+00.00	10.92	20.20	2.42	4.50	15.70
2+00.00	11.43	41.40	6.99	17.40	39.70
3+00.00	9.28	38.40	9.97	31.40	46.60
4+00.00	13.52	42.20	5.37	28.40	60.50
5+00.00	9.13	41.90	0.02	10.00	92.40
6+00.00	9.11	33.80	0.00	0.00	126.20
7+00.00	12.74	40.50	0.00	0.00	166.60
8+00.00	10.90	43.80	0.94	1.70	208.70
9+00.00	9.82	38.40	3.53	8.30	238.70
9+50.00	0.00	9.10	0.00	3.30	244.60
Sub Total:		349.60		105.00	

EB STH 70 STAGE 1

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
237+50.00	22.30	20.65	23.60	21.85	-1.20
238+00.00	26.10	44.81	18.70	39.17	4.44
238+50.00	19.70	42.41	19.60	35.46	11.39
239+00.00	19.20	36.02	18.50	35.28	12.13
239+25.00	18.90	17.64	15.10	15.56	14.21
239+50.00	18.70	17.41	11.70	12.41	19.21
240+00.00	23.30	38.89	7.70	17.96	40.14
240+50.00	29.20	48.61	5.50	12.22	76.53
241+00.00	36.30	60.65	8.10	12.59	124.58
241+50.00	36.10	67.04	9.88	16.65	174.97
242+00.00	42.36	72.65	10.25	18.64	228.98
242+50.00	48.90	84.50	9.28	18.08	295.40
243+00.00	56.05	97.18	7.28	15.33	377.24
243+50.00	59.50	106.99	11.33	17.23	467.00
244+00.00	52.04	103.28	12.52	22.08	548.19
244+50.00	34.65	80.27	14.10	24.65	603.81
245+00.00	15.41	46.35	2.50	15.37	634.80
245+50.00	0.00	14.27	0.00	2.31	646.75
Sub Total:		999.60		352.85	

NB STH 35/70 STAGE 2

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
17+00.00	96.85	89.68	0.00	0.00	89.68
17+50.00	80.92	164.60	0.00	0.00	254.28
18+00.00	72.50	142.06	0.60	0.56	395.78
18+30.28	71.90	80.97	1.30	1.07	475.68
18+50.00	70.40	51.97	1.30	0.95	526.70
19+00.00	66.70	126.94	6.50	7.22	646.42
19+18.36	62.50	43.93	7.50	4.76	685.59
19+43.35	61.80	57.52	10.60	8.38	734.74
19+50.00	62.60	15.32	11.30	2.70	747.36
19+68.70	62.20	43.22	12.70	8.31	782.27
20+00.00	63.50	72.86	14.20	15.59	839.53
20+34.81	64.60	82.58	13.90	18.11	904.00
20+50.00	65.60	36.62	70.10	23.63	916.99
20+59.65	66.00	23.52	70.60	25.14	915.37
20+84.57	69.60	62.58	71.70	65.67	912.27
21+00.00	66.70	38.95	71.80	41.00	910.22
21+50.00	74.40	130.65	66.70	128.24	912.62
22+00.00	72.50	136.02	45.70	104.07	944.57
22+50.00	82.70	143.70	30.30	70.37	1017.90
23+00.00	182.70	245.74	6.50	34.07	1229.57
23+50.00	247.70	398.52	0.00	6.02	1622.07
24+00.00	230.30	442.59	0.20	0.19	2064.48
24+50.00	177.80	377.87	109.50	101.57	2340.77
25+00.00	162.90	315.46	12.10	112.59	2543.64
25+50.00	156.10	295.37	17.10	27.04	2811.98
26+00.00	195.80	325.83	9.10	24.26	3113.55
26+50.00	271.60	432.78	3.00	11.20	3535.12
27+00.00	141.90	382.87	3.50	6.02	3911.98
27+50.00	122.80	245.09	3.40	6.39	4150.68
28+00.00	72.10	180.46	4.40	7.22	4323.92
28+50.00	35.40	99.54	12.40	15.56	4407.90
29+00.00	18.40	49.81	21.20	31.11	4426.61
29+50.00	0.00	17.04	82.60	96.11	4347.53
Sub Total:		5352.66		1005.13	

CIRCLE STAGE 2

Station	Cut Volume	Fill Volume	Mass Ordinate
RAB	100	2500	-2400
Sub Total:	100	2500	

NB STH 35 STAGE 2

Station	Cut		Fill		Mass
	Area (SF)	Volume (CY)	Area (SF)	Volume (CY)	Ordinate
31+50.00	47.90	0.00	2.80	0.00	0.00
32+00.00	0.00	44.35	0.00	2.59	41.76
32+50.00	29.10	26.94	25.90	23.98	44.72
33+00.00	72.70	94.26	6.60	30.09	108.89
33+50.00	6.70	73.52	41.20	44.26	138.15
34+00.00	5.80	11.57	64.00	97.41	52.31
34+50.00	4.70	9.72	84.70	137.69	-75.65
35+00.00	0.60	4.91	112.50	182.59	-253.33
35+50.00	0.00	0.56	92.80	190.09	-442.87
36+00.00	23.80	22.04	184.50	256.76	-677.59
36+50.00	23.40	43.70	299.20	447.87	-1081.76
37+00.00	24.00	43.89	372.90	622.31	-1660.19
37+50.00	62.80	80.37	372.00	689.72	-2269.54
38+00.00	118.50	167.87	308.70	630.28	-2731.94
38+50.00	104.60	206.57	208.90	479.26	-3004.63
39+00.00	62.70	154.91	130.30	314.07	-3163.80
39+50.00	54.20	108.24	130.70	241.67	-3297.22
40+00.00	0.80	50.93	190.30	297.22	-3543.52
40+50.00	12.74	12.54	215.65	375.88	-3906.86
41+00.00	36.27	45.38	182.43	368.59	-4230.07
41+50.00	63.50	92.38	154.16	311.66	-4449.35
42+00.00	79.97	132.84	119.74	253.61	-4570.12
42+50.00	95.87	162.81	9.64	119.80	-4527.10
43+00.00	133.80	212.66	8.50	16.80	-4331.24
43+50.00	122.90	237.69	24.78	30.81	-4124.37
44+00.00	186.20	286.20	17.85	39.47	-3877.64
44+50.00	173.60	333.15	16.23	31.56	-3576.05
45+00.00	119.14	271.06	19.49	33.07	-3338.06
45+50.00	92.50	195.96	17.10	33.88	-3175.98
46+00.00	98.40	176.76	12.02	26.96	-3026.19
46+50.00	85.19	169.99	9.30	19.74	-2875.94
47+00.00	99.19	170.72	1.20	9.72	-2714.94
47+50.00	0.00	91.84	0.00	1.11	-2624.20
Sub Total:		3736.33		6360.54	

SB STH 35 & 70 Stage 2

Station	Cut		Fill		Mass
	Area (SF)	Volume (CY)	Area (SF)	Volume (CY)	Ordinate
23+50.00	1.12	1.04	85.17	78.86	-77.82
24+00.00	26.14	25.24	29.09	105.80	-158.38
24+50.00	58.17	78.06	21.40	46.75	-127.065
25+00.00	293.10	325.25	11.70	30.65	167.537
25+50.00	345.70	591.48	1.60	12.31	746.7037
26+00.00	254.30	555.56	10.40	11.11	1291.148
26+50.00	145.80	370.46	11.50	20.28	1641.333
27+00.00	149.60	273.52	4.00	14.35	1900.5
27+50.00	162.80	289.26	3.60	7.04	2182.722
28+00.00	144.80	284.81	4.40	7.41	2460.13
28+50.00	122.70	247.69	4.80	8.52	2699.296
29+00.00	80.80	188.43	7.90	11.76	2875.963
29+50.00	0.00	74.81	46.70	50.56	2900.222
29+75.00	0.00	0.00	104.00	69.77	2830.454
Sub Total:		3305.61		475.16	

SB STH 35 Stage 2

Station	Cut		Fill		Mass
	Area (SF)	Volume (CY)	Area (SF)	Volume (CY)	Ordinate
31+00.00	0.00	0.00	0.00	0.00	0.00
31+50.00	0.00	0.00	0.00	0.00	0.00
32+00.00	0.00	0.00	35.00	32.41	-32.41
32+50.00	25.60	23.70	40.30	69.72	-78.43
33+00.00	22.70	44.72	44.10	78.15	-111.85
33+50.00	13.70	33.70	59.00	95.46	-173.61
34+00.00	6.50	18.70	112.80	159.07	-313.98
34+50.00	17.40	22.13	59.30	159.35	-451.20
35+00.00	0.00	16.11	0.00	54.91	-490.00
Sub Total:		159.07		649.07	

EB STH 70 STAGE 2

Station	Cut		Fill		Mass
	Area (SF)	Volume (CY)	Area (SF)	Volume (CY)	Ordinate
231+50.00	0.00	0.00	141.00	0.00	0.00
232+00.00	0.00	0.00	47.10	174.17	-174.17
232+50.00	78.10	72.31	0.00	43.61	-145.46
233+00.00	204.10	261.30	0.00	0.00	115.83
233+50.00	144.30	322.59	2.60	2.41	436.02
234+00.00	78.80	206.57	22.40	23.15	619.44
234+50.00	6.90	79.35	75.50	90.65	608.15
235+00.00	0.80	7.13	72.00	136.57	478.70
235+50.00	7.90	8.06	50.10	113.06	373.70
236+00.00	12.20	18.61	38.70	82.22	310.09
236+50.00	80.40	85.74	30.60	64.17	331.67
237+00.00	85.80	153.89	26.40	52.78	432.78
237+50.00	0.00	79.44	0.00	24.44	487.78
Sub Total:		1295.00		807.22	

WB STH 70 Stage 2

Station	Cut		Fill		Mass
	Area (SF)	Volume (CY)	Area (SF)	Volume (CY)	Ordinate
231+50.00	0.00	0.00	123.00	0.00	0.00
232+00.00	14.10	13.06	89.90	197.13	-184.07
232+50.00	33.00	43.61	57.90	136.85	-277.31
233+00.00	37.90	65.65	29.50	80.93	-292.59
233+50.00	27.90	60.93	24.40	49.91	-281.57
234+00.00	49.89	72.03	24.10	44.91	-254.45
234+50.00	23.00	67.49	6.10	27.96	-214.93
235+00.00	14.60	34.81	1.65	7.18	-187.29
235+50.00	8.40	21.30	0.00	1.53	-167.52
236+00.00	7.50	14.72	0.00	0.00	-152.80
Sub Total:		393.59		546.39	

9

9

SBRT — STAGE 2 AND 3A

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate	
502+00.00	0.00	0.00	0.00	0.00	0.00	
502+50.00	147.20	136.30	2.60	2.40	133.90	*
503+00.00	179.20	302.20	0.00	2.50	433.60	*
503+50.00	97.20	255.90	76.50	70.90	618.60	
504+00.00	78.30	162.50	14.00	83.70	697.40	
504+50.00	0.00	72.50	0.00	12.90	757.00	
Sub Total:		929.40		172.40		

* STAGE 3A

Airport Road — STAGE 2

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
301+00.00	0.00	0.00	0.00	0.00	0.00
301+50.00	39.70	36.80	0.00	0.00	36.80
302+00.00	15.10	50.70	2.10	1.90	85.50
302+50.00	1.60	15.40	8.80	10.10	90.80
303+00.00	0.00	1.40	28.10	34.20	58.10
303+50.00	0.70	0.60	37.50	60.80	-2.10
304+00.00	2.90	3.30	21.00	54.20	-53.00
304+50.00	12.50	14.20	17.00	35.20	-73.90
305+00.00	28.50	37.90	0.50	16.20	-52.20
305+50.00	49.30	72.00	0.00	0.40	19.40
306+00.00	26.10	69.80	0.90	0.90	88.30
306+50.00	13.40	36.50	15.60	15.30	109.50
307+00.00	47.00	55.90	0.00	14.50	150.90
307+50.00	164.00	195.30	0.00	0.00	346.20
308+00.00	143.40	284.60	0.00	0.00	630.70
308+50.00	115.60	239.80	0.00	0.00	870.50
309+00.00	619.50	680.60	0.00	0.00	1551.10
309+50.00	95.90	662.40	0.00	0.00	2213.50
310+00.00	63.40	147.60	0.00	0.00	2361.10
310+50.00	72.20	125.60	1.10	1.00	2485.70
311+00.00	89.70	149.90	0.00	1.00	2634.60
311+50.00	73.70	151.30	0.80	0.80	2785.10
312+00.00	105.10	165.50	42.20	39.80	2910.80
312+50.00	61.30	154.10	3.10	42.00	3022.90
313+00.00	50.90	103.90	0.10	2.90	3123.90
313+50.00	40.60	84.70	0.00	0.10	3208.50
314+00.00	37.00	71.80	0.00	0.00	3280.30
314+50.00	0.00	34.20	0.00	0.00	3314.50
Sub Total:		3645.80		331.30	

NB STH 35 — STAGE 3A

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
40+50.00	59.66	55.24	1.35	1.25	53.99
41+00.00	38.33	90.73	4.97	5.85	138.87
41+50.00	25.10	58.73	7.74	11.77	185.83
42+00.00	22.63	44.19	8.26	14.81	215.21
42+50.00	11.53	31.63	8.06	15.11	231.73
43+00.00	3.80	14.19	7.90	14.78	231.15
43+50.00	2.00	5.37	11.32	17.80	218.72
44+00.00	4.80	6.30	14.95	24.32	200.69
44+50.00	5.00	9.07	28.47	40.20	169.56
45+00.00	6.76	10.89	25.91	50.35	130.10
45+50.00	12.10	17.46	22.40	44.73	102.83
46+00.00	15.40	25.46	11.78	31.65	96.65
46+50.00	38.91	50.29	0.00	10.91	136.03
47+00.00	53.21	85.30	0.00	0.00	221.32
47+50.00	0.00	49.27	0.00	0.00	270.59
Sub Total:		554.13		283.54	

SB STH 35 & 70 — Stage 3A

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
16+50.00	0.00	0.00	0.00	0.00	0.00
17+00.00	58.20	53.89	42.30	39.17	14.72
17+50.00	60.70	110.09	168.50	195.19	-70.37
18+00.00	64.30	115.74	87.40	236.94	-191.57
18+50.00	51.40	107.13	93.90	167.87	-252.31
19+00.00	47.10	91.20	109.90	188.70	-349.81
19+50.00	36.00	76.94	132.20	224.17	-497.04
20+00.00	24.50	56.02	161.60	272.04	-713.06
20+50.00	17.20	38.61	137.90	277.31	-951.76
21+00.00	13.10	28.06	159.10	275.00	-1198.70
21+50.00	6.80	18.43	138.90	275.93	-1456.20
22+00.00	13.60	18.89	140.30	258.52	-1695.83
22+50.00	147.00	148.70	146.20	265.28	-1812.41
23+00.00	260.40	377.22	180.30	302.31	-1737.50
23+50.00	303.48	522.11	106.13	265.21	-1480.60
24+00.00	240.36	503.56	103.11	193.74	-1170.79
24+50.00	102.73	317.68	0.00	95.47	-948.58
25+00.00	0.00	95.12	0.00	0.00	-853.46
Sub Total:		2679.39		3532.85	

SB STH 35 — Stage 3A

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
31+00.00	0.00	0.00	95.10	0.00	0.00
31+50.00	0.80	0.74	56.40	140.28	-139.54
32+00.00	0.00	0.74	0.00	52.22	-191.02
Sub Total:		1.48		192.50	

EB STH 70 — STAGE 3A

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
236+50.00	45.80	42.41	0.00	0.00	42.41
237+00.00	57.60	95.74	0.00	0.00	138.15
237+50.00	44.30	94.35	0.00	0.00	232.50
238+00.00	43.30	81.11	0.00	0.00	313.61
238+50.00	41.90	78.89	0.00	0.00	392.50
239+00.00	57.20	91.76	0.00	0.00	484.26
239+25.00	65.40	56.76	0.00	0.00	541.02
239+50.00	63.10	59.49	0.00	0.00	543.75
240+00.00	47.70	102.59	0.00	0.00	646.34
240+50.00	30.30	72.22	0.00	0.00	718.56
241+00.00	17.80	44.54	0.10	0.09	763.01
241+50.00	13.30	28.80	0.22	0.30	791.51
242+00.00	12.64	24.02	0.45	0.62	814.91
242+50.00	12.70	23.46	0.72	1.08	837.29
243+00.00	11.65	22.55	1.42	1.98	857.85
243+50.00	12.50	22.36	1.37	2.58	877.63
244+00.00	12.16	22.83	1.28	2.45	898.01
244+50.00	16.15	26.21	0.00	1.19	923.04
245+00.00	13.59	27.54	0.00	0.00	950.57
245+50.00	0.00	12.58	0.00	0.00	963.16
Sub Total:		1030.21		10.30	

WB STH 70 — Stage 3A

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
231+50.00	31.80	0.00	0.00	0.00	0.00
232+00.00	36.20	62.96	0.00	0.00	62.96
232+50.00	48.70	78.61	0.00	0.00	141.57
233+00.00	64.10	104.44	0.00	0.00	246.02
233+50.00	52.10	107.59	0.00	0.00	353.61
234+00.00	47.11	91.86	0.00	0.00	445.47
234+50.00	62.20	101.21	0.00	0.00	546.69
235+00.00	36.00	90.93	3.35	3.10	634.51
235+50.00	57.40	86.48	0.50	3.56	717.43
236+00.00	44.80	94.63	0.00	0.46	811.59
Sub Total:		818.72		7.13	

Special Ditch — STAGE 3A

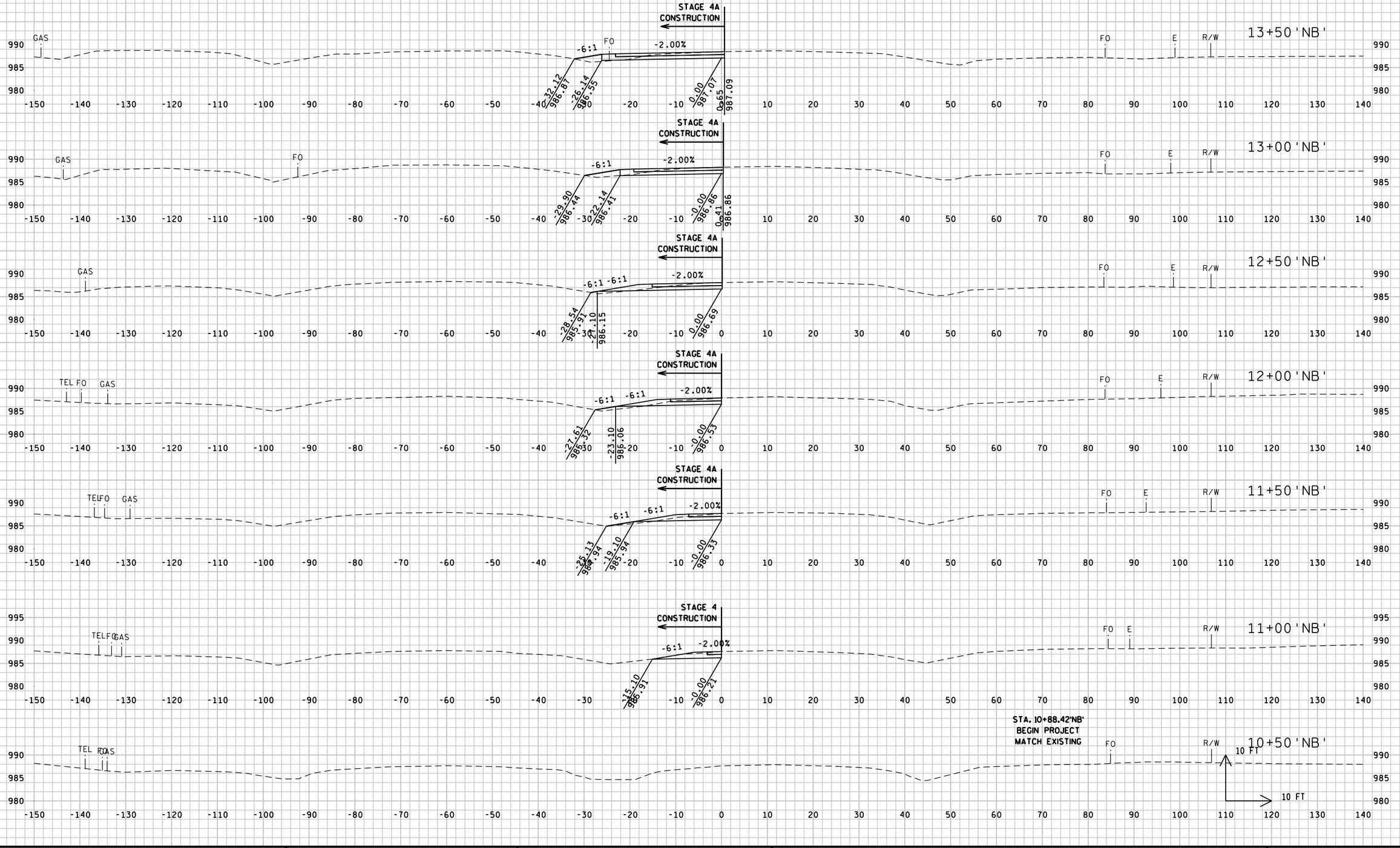
Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
0+00.00	0.00	0.00	0.00	0.00	0.00
1+00.00	351.30	650.50	0.00	0.00	650.50
2+00.00	650.90	1855.90	0.00	0.00	2506.40
3+00.00	610.30	2335.60	22.90	42.30	4799.70
4+00.00	638.80	2313.10	95.10	218.50	6894.30
5+00.00	571.00	2240.30	308.10	746.70	8387.90
6+00.00	958.40	2832.20	489.60	1477.10	9742.90
6+50.00	157.80	1033.50	976.30	1357.30	9419.20
7+00.00	232.40	361.30	865.20	1705.10	8075.40
8+00.00	111.00	636.10	706.30	2910.20	5801.30
9+00.00	263.40	693.40	449.50	2140.30	4354.30
10+00.00	474.90	1367.10	213.40	1227.60	4493.80
11+00.00	278.00	1394.20	44.90	478.40	5409.70
12+00.00	215.40	913.70	17.70	116.00	6207.30
13+00.00	226.30	817.90	0.00	32.90	6992.40
13+29.81	0.00	124.90	0.00	0.00	7117.30
Sub Total:		19569.70		12452.40	

NB STH 35 — STAGE 3B

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
31+50.00	0.00	0.00	0.00	0.00	0.00
32+00.00	29.90	27.69	54.60	50.56	-22.87
32+50.00	0.00	27.69	0.00	50.56	-45.74
Sub Total:		55.37		101.11	

NB STH 35/70 — STAGE 4A

Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Mass Ordinate
10+50.00	0.00	0.00	0.00	0.00	0.00
11+00.00	12.80	11.85	0.00	0.00	11.85
11+50.00	11.50	22.50	2.50	2.31	32.04
12+00.00	15.00	24.54	4.40	6.39	50.19
12+50.00	17.30	29.91	2.30	6.20	73.89
13+00.00	21.50	35.93	6.60	8.24	101.57
13+50.00	22.40	40.65	6.10	11.76	130.46
14+00.00	37.80	55.74	0.30	5.93	180.28
14+50.00	58.50	89.17	0.00	0.28	269.17
15+00.00	59.30	109.07	0.00	0.00	378.24
15+50.00	53.70	104.63	0.00	0.00	482.87
16+00.00	61.00	106.20	0.00	0.00	589.07
16+50.00	143.50	189.35	0.00	0.00	778.43
17+00.00	14.05	145.88	1.50	1.39	922.92
17+50.00	5.58	18.18	10.20	10.83	930.26
18+00.00	0.00	5.17	0.00	9.44	925.98
Sub Total:		988.76		62.78	

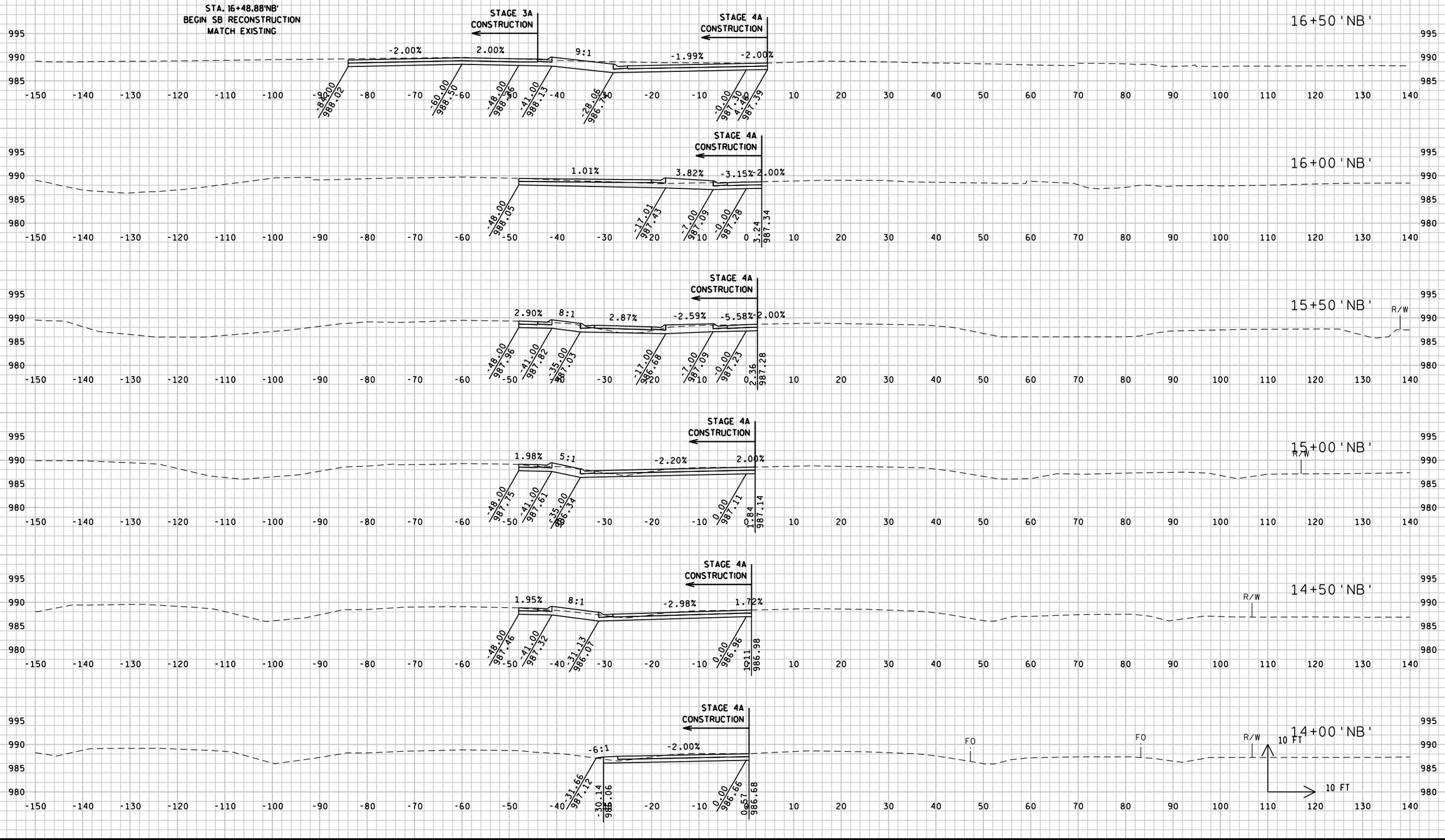


9

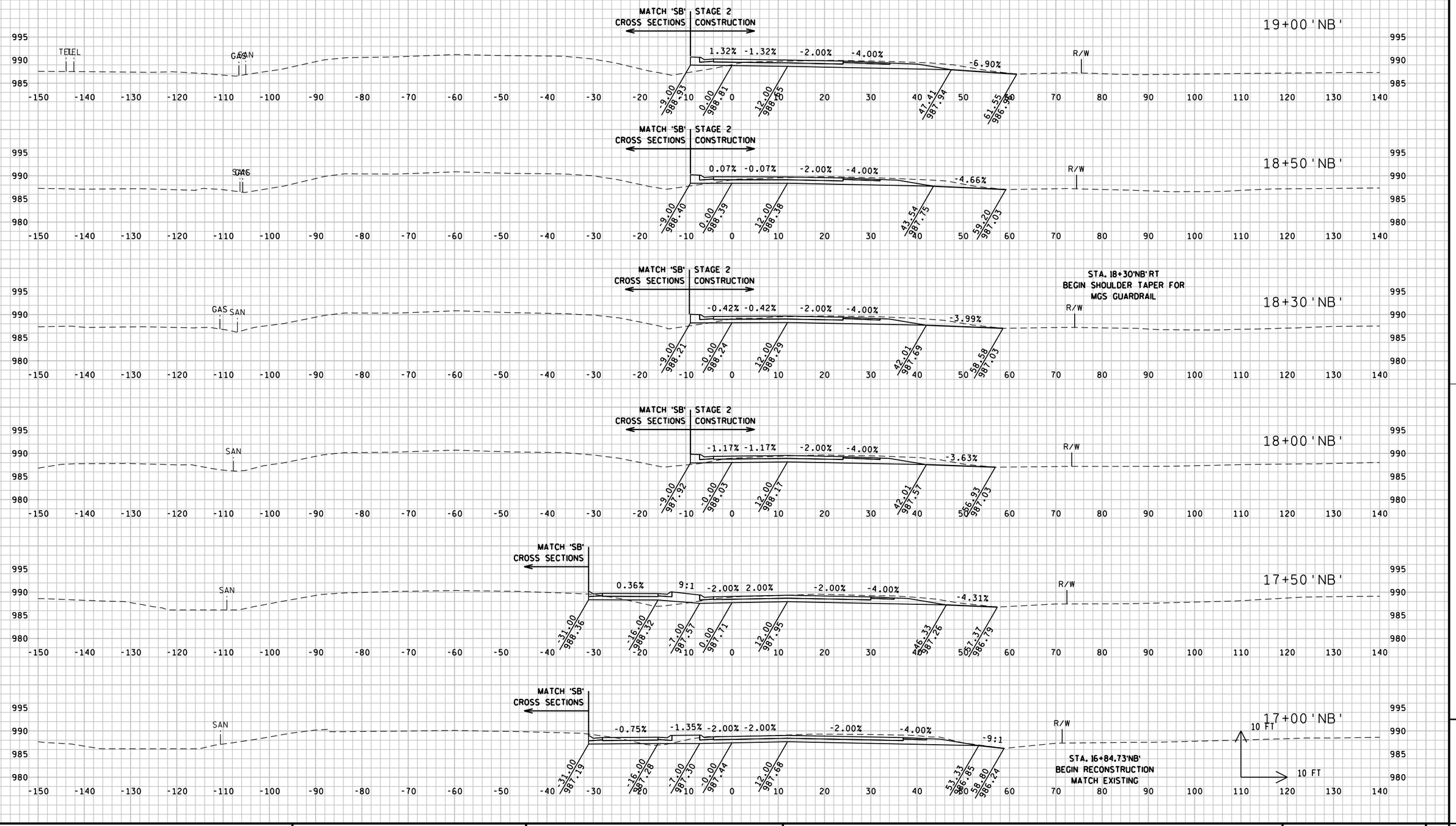
9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35/70	SHEET 291	E

STA. 16+48.88'NB'
BEGIN SB RECONSTRUCTION
MATCH EXISTING



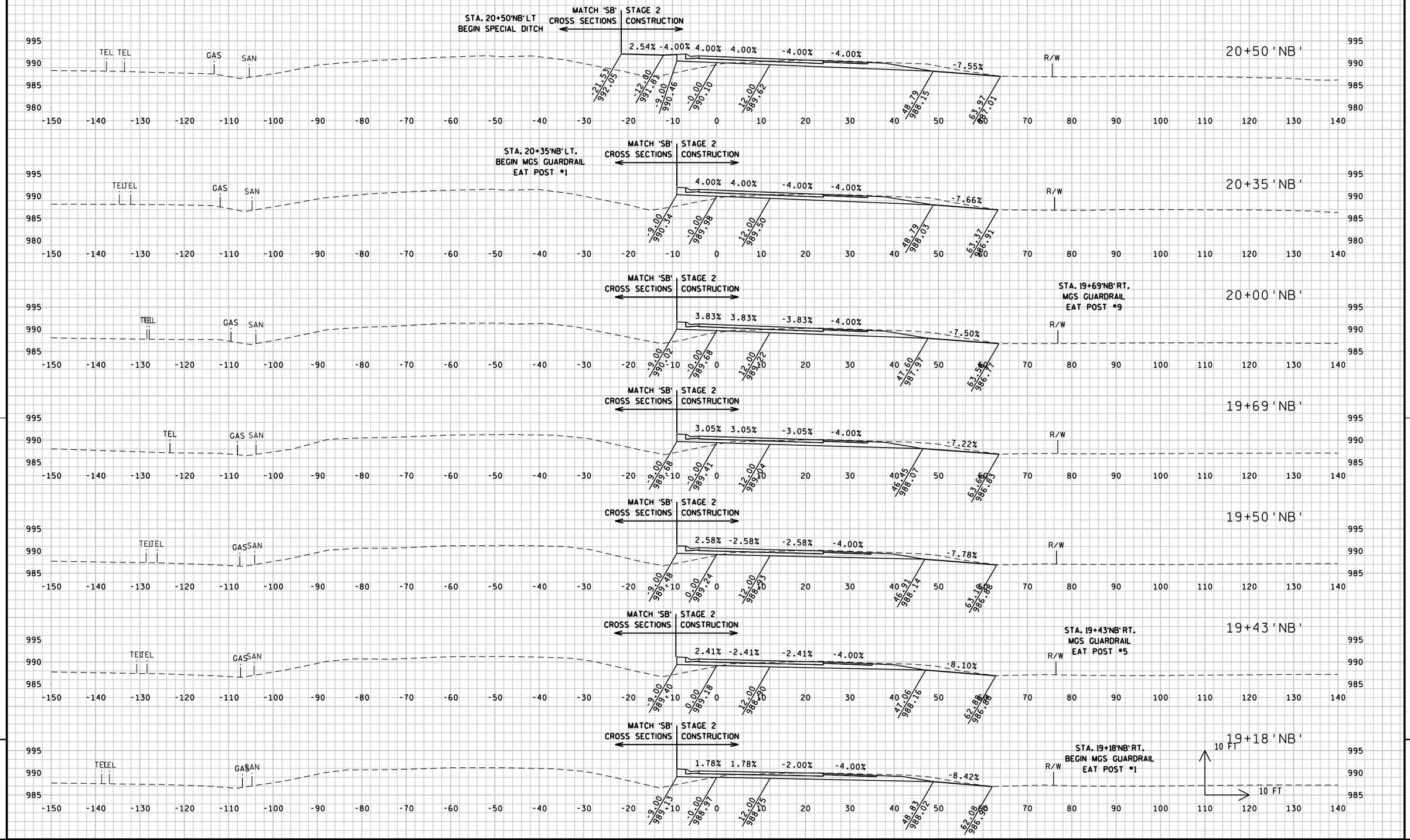
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35/70	SHEET 292	E



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35/70	SHEET 293	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



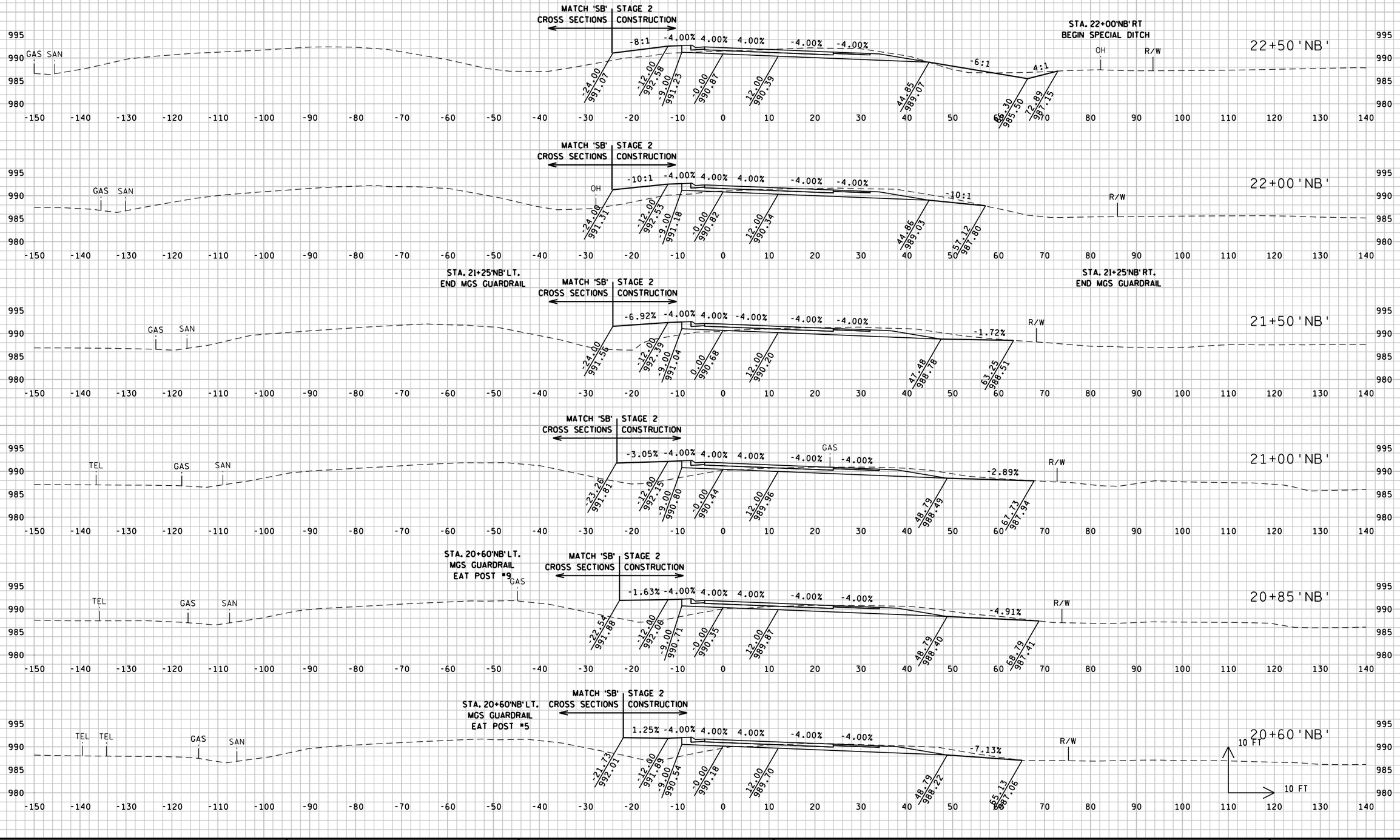
9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35/70	SHEET 294	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

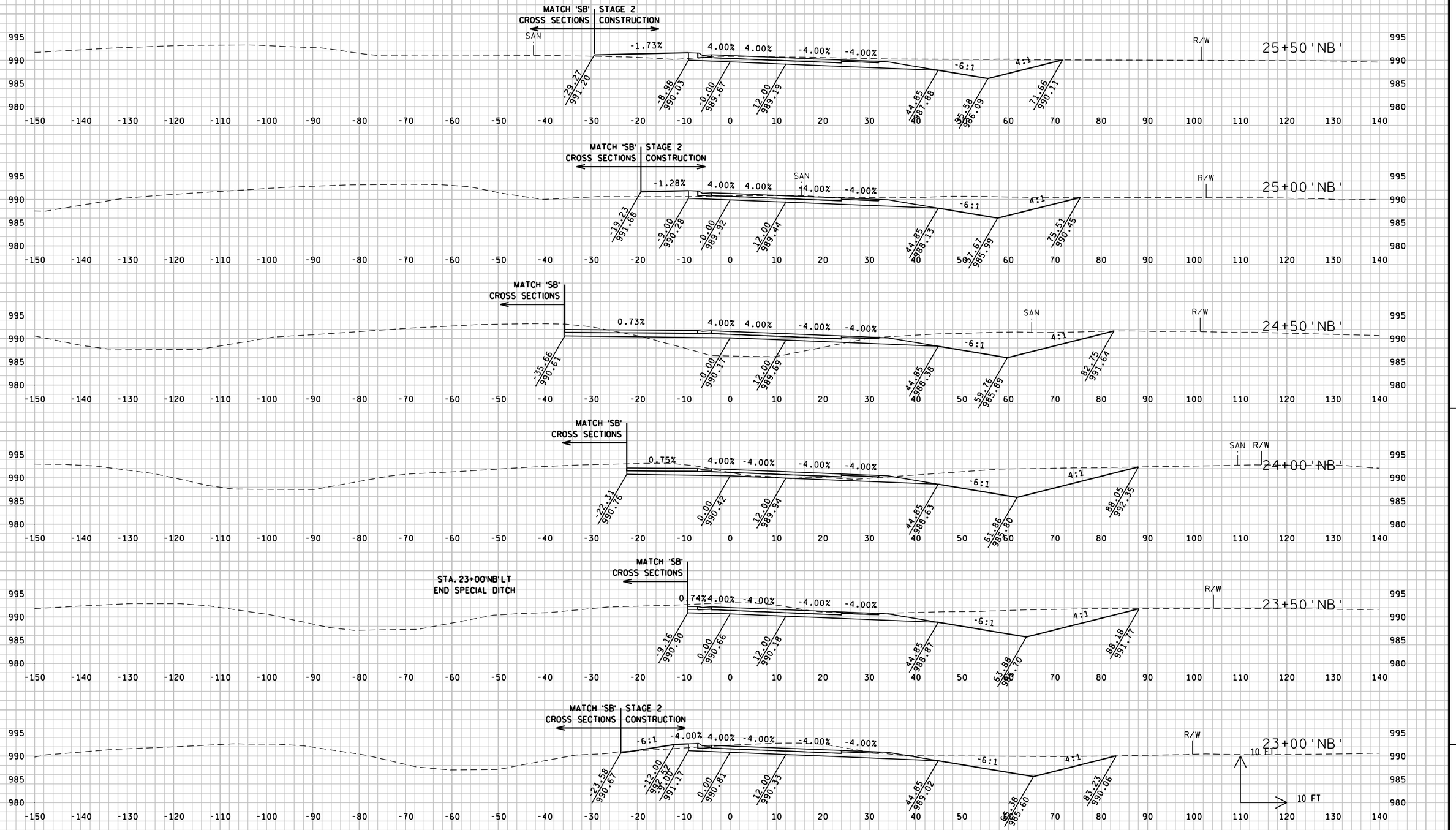
WISDOT/CADDS SHEET 21



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35/70	SHEET 295	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



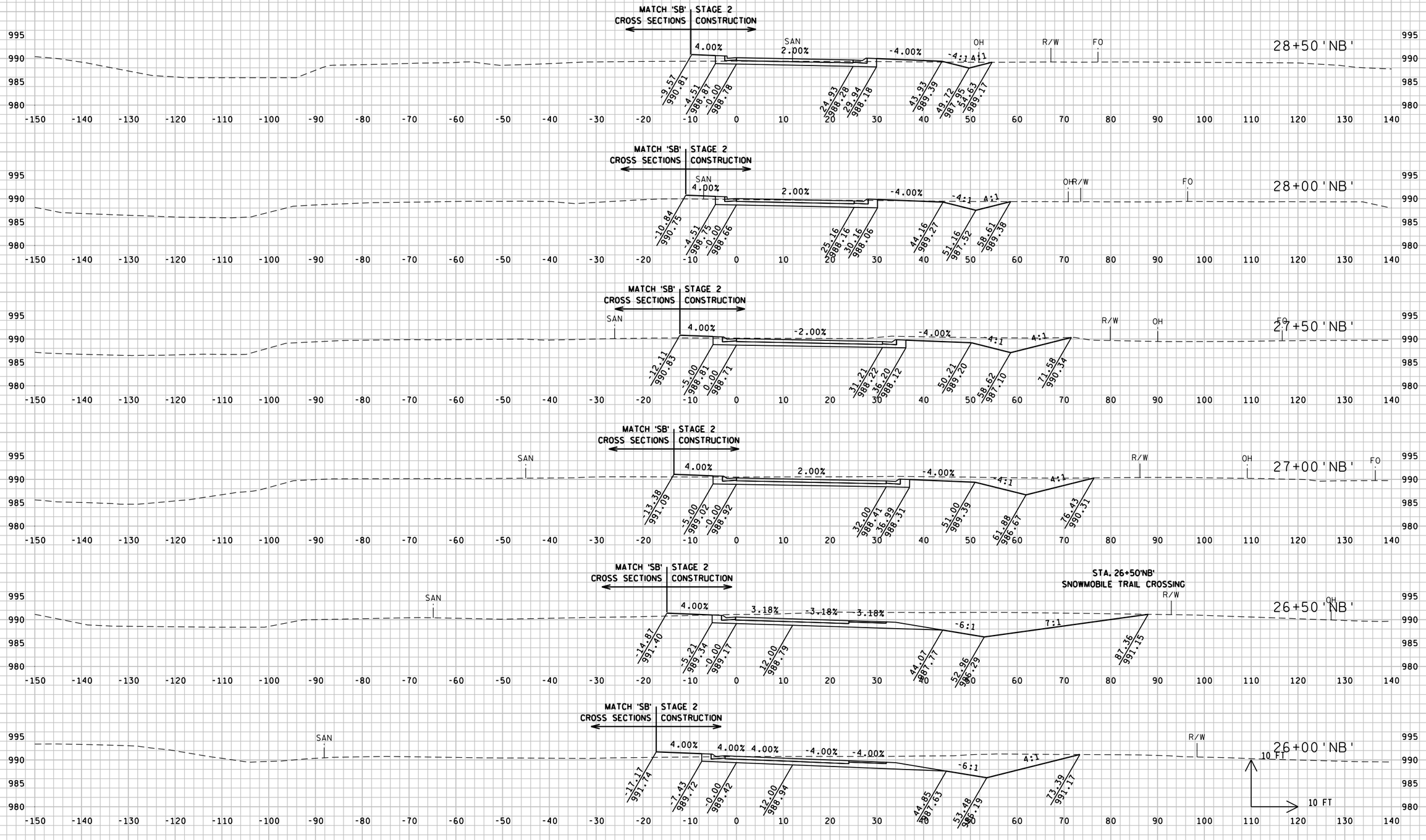
9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35/70	SHEET	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

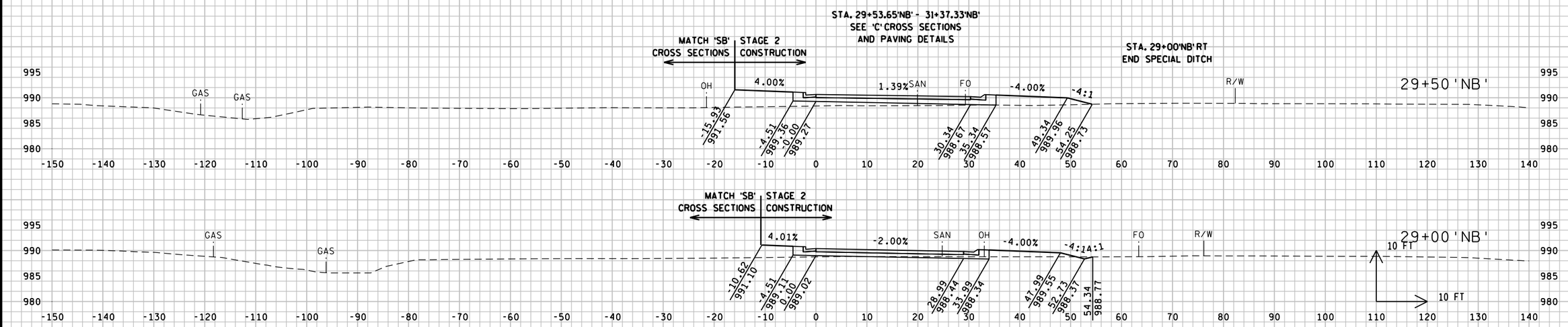
WISDOT/CADDS SHEET 21



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35/70	SHEET 297	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



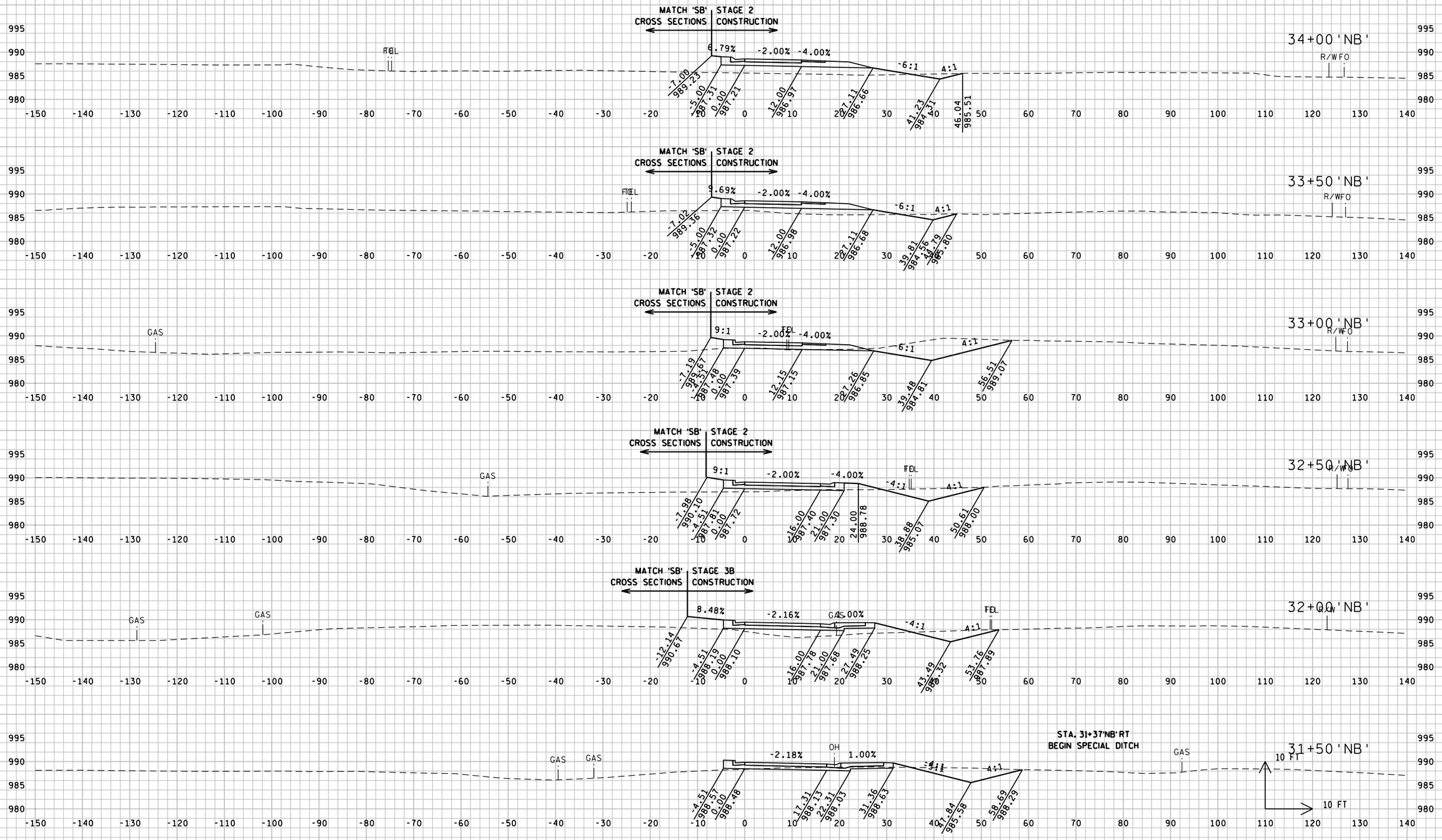
9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35/70	SHEET 298	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



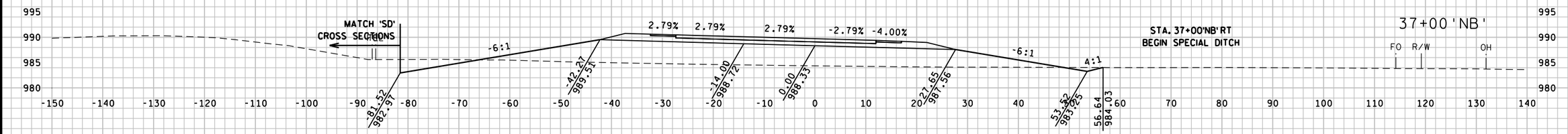
9

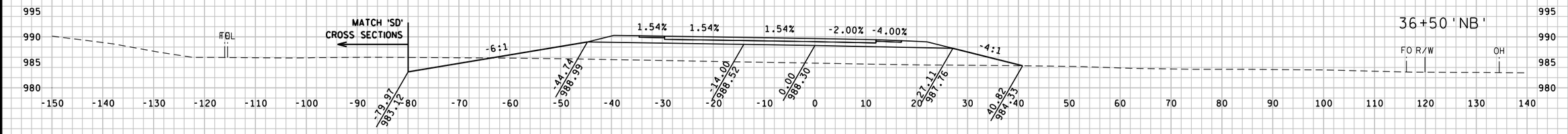
9

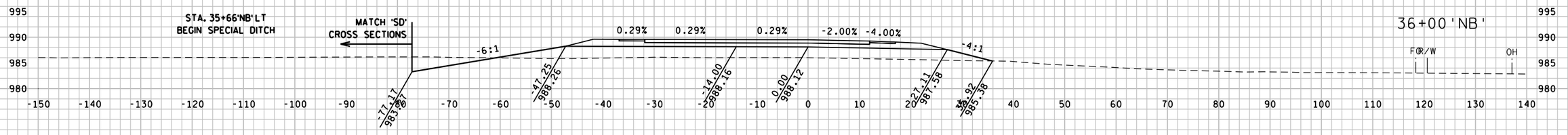
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35	SHEET 299	E

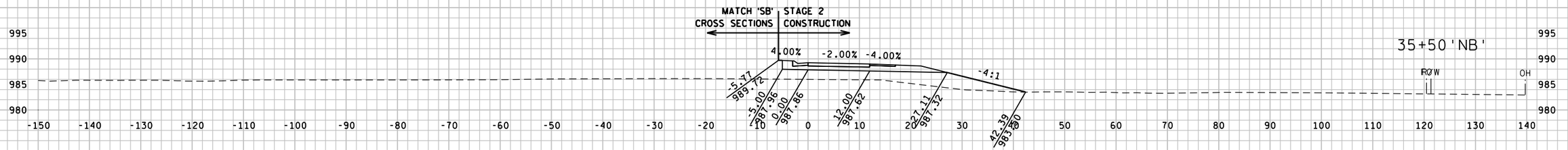
FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn
PLOT DATE : 7/31/2014
PLOT BY : GHD, Inc.
PLOT NAME :
PLOT SCALE : 20.0000 sf / in.
WISDOT/CADDS SHEET 21

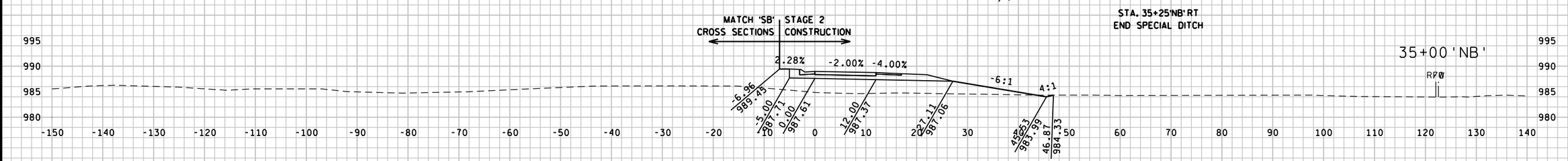
ALL WORK COMPLETED IN STAGE 2

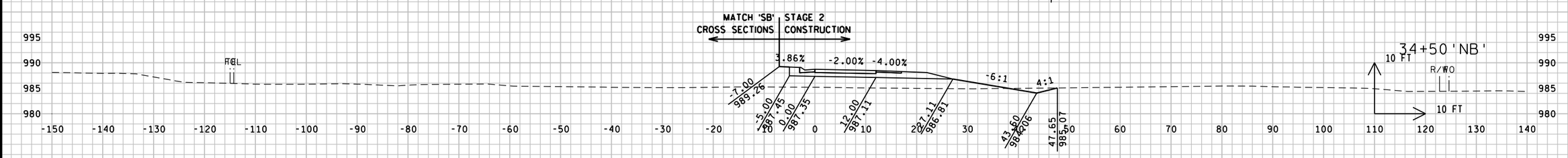












9

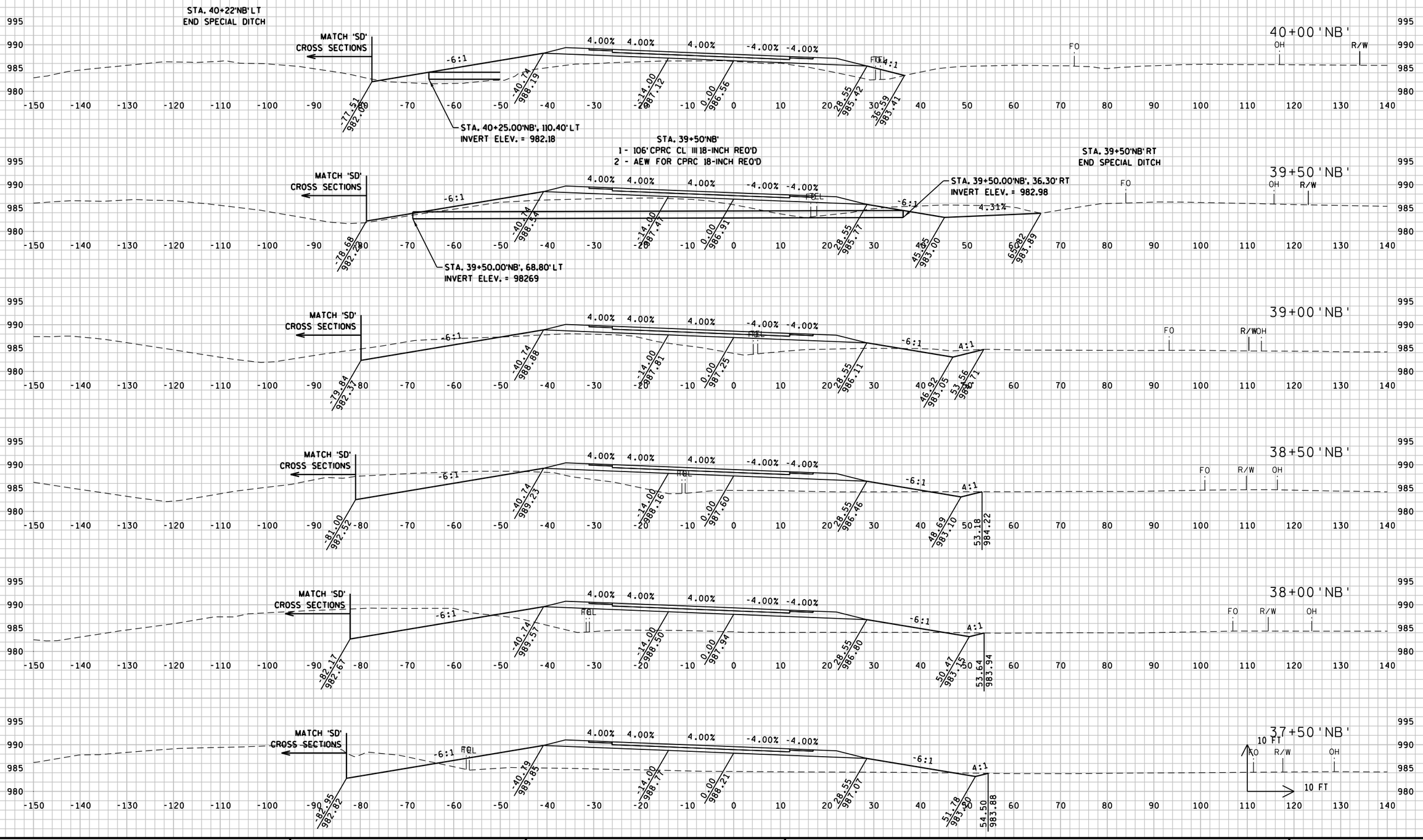
9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35	SHEET 300	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 2



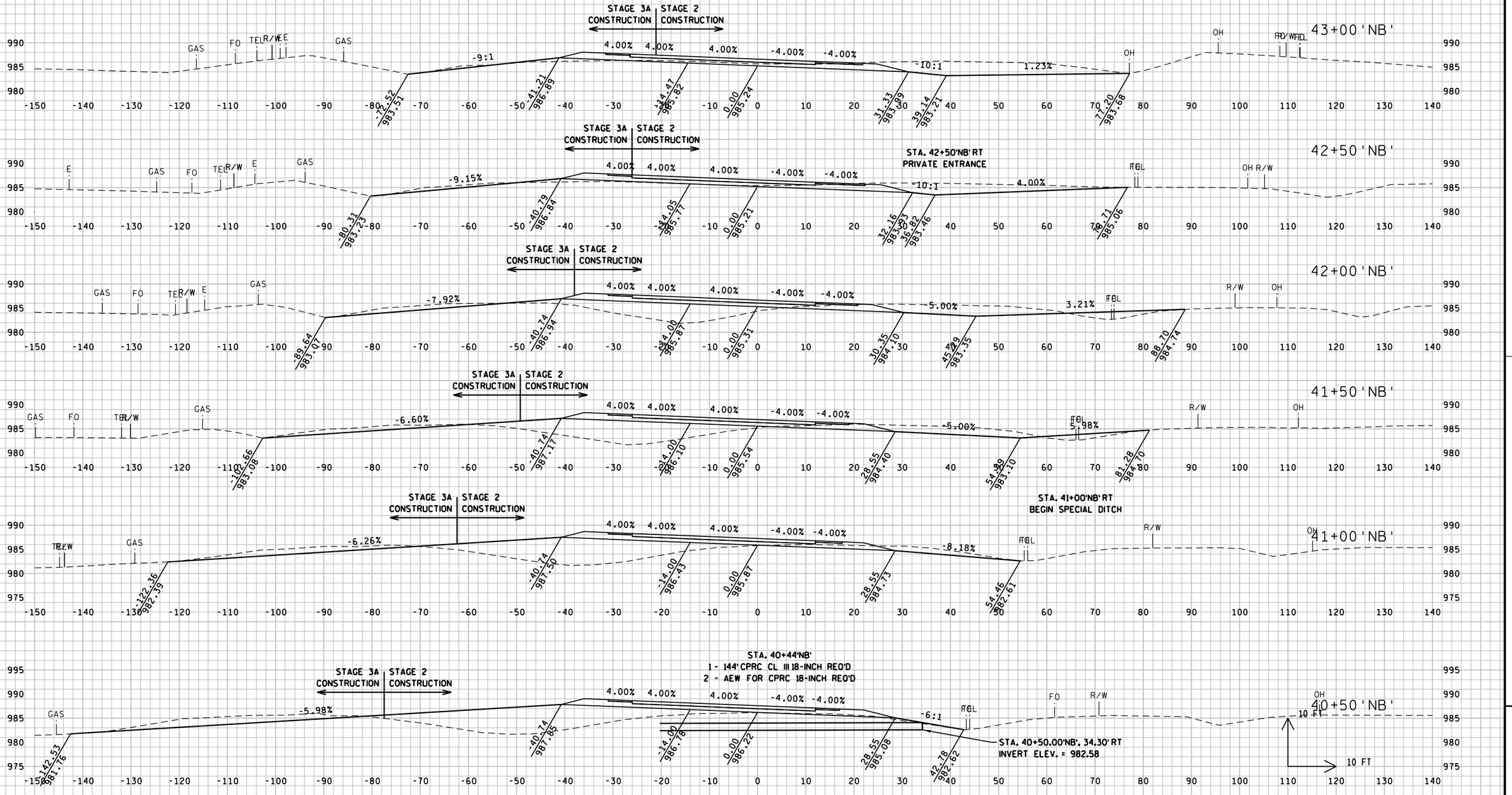
9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35	SHEET 301	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

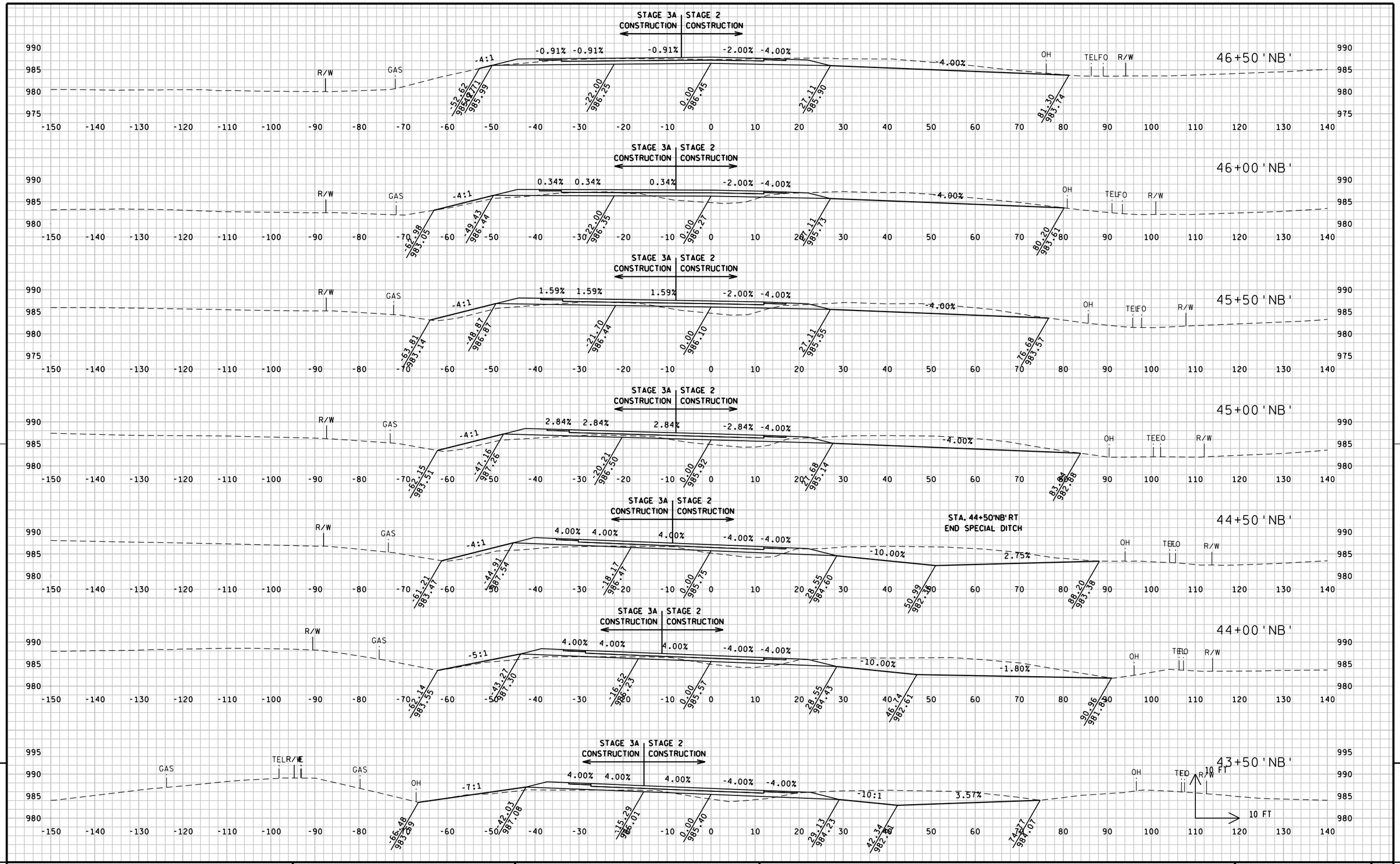
WISDOT/CADDS SHEET 21



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35	SHEET 302 E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



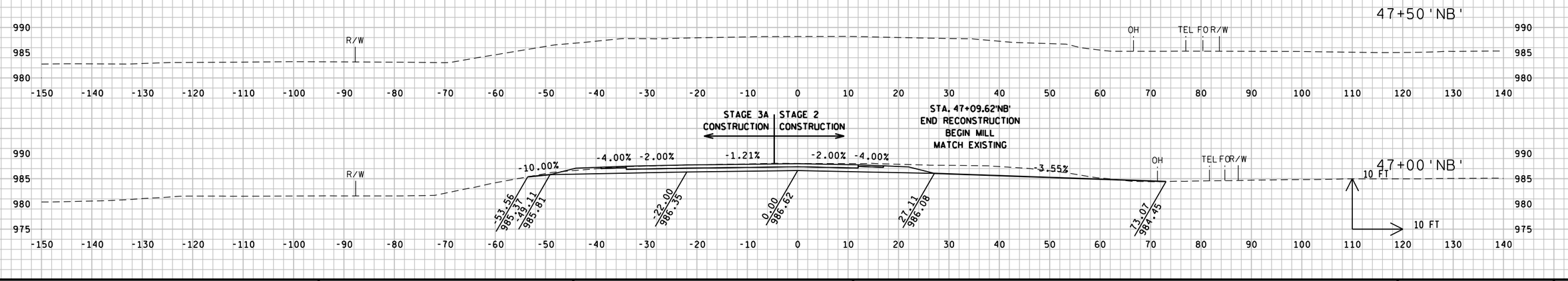
9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35	SHEET 303	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



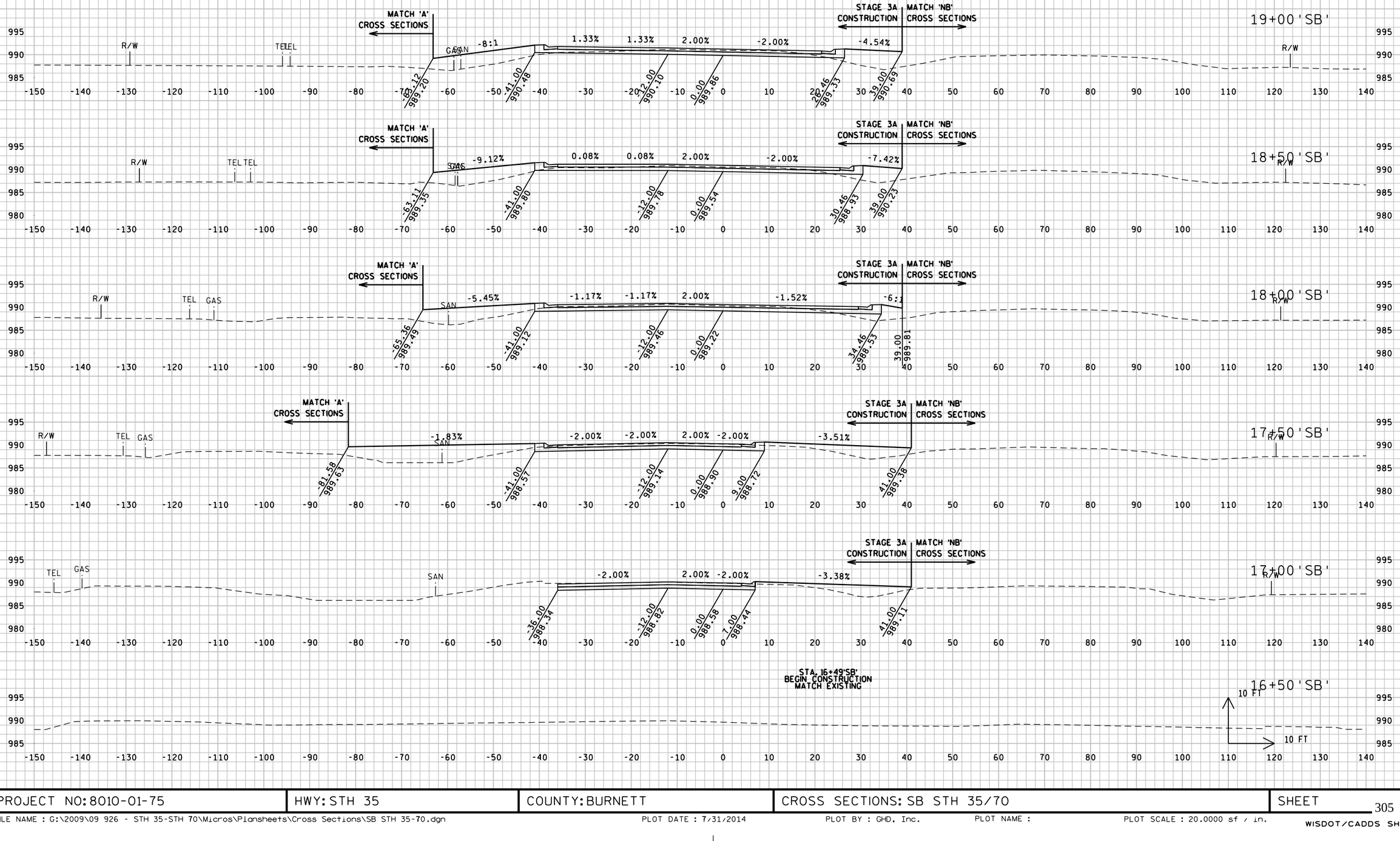
9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: NB STH 35	SHEET 304	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\NB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

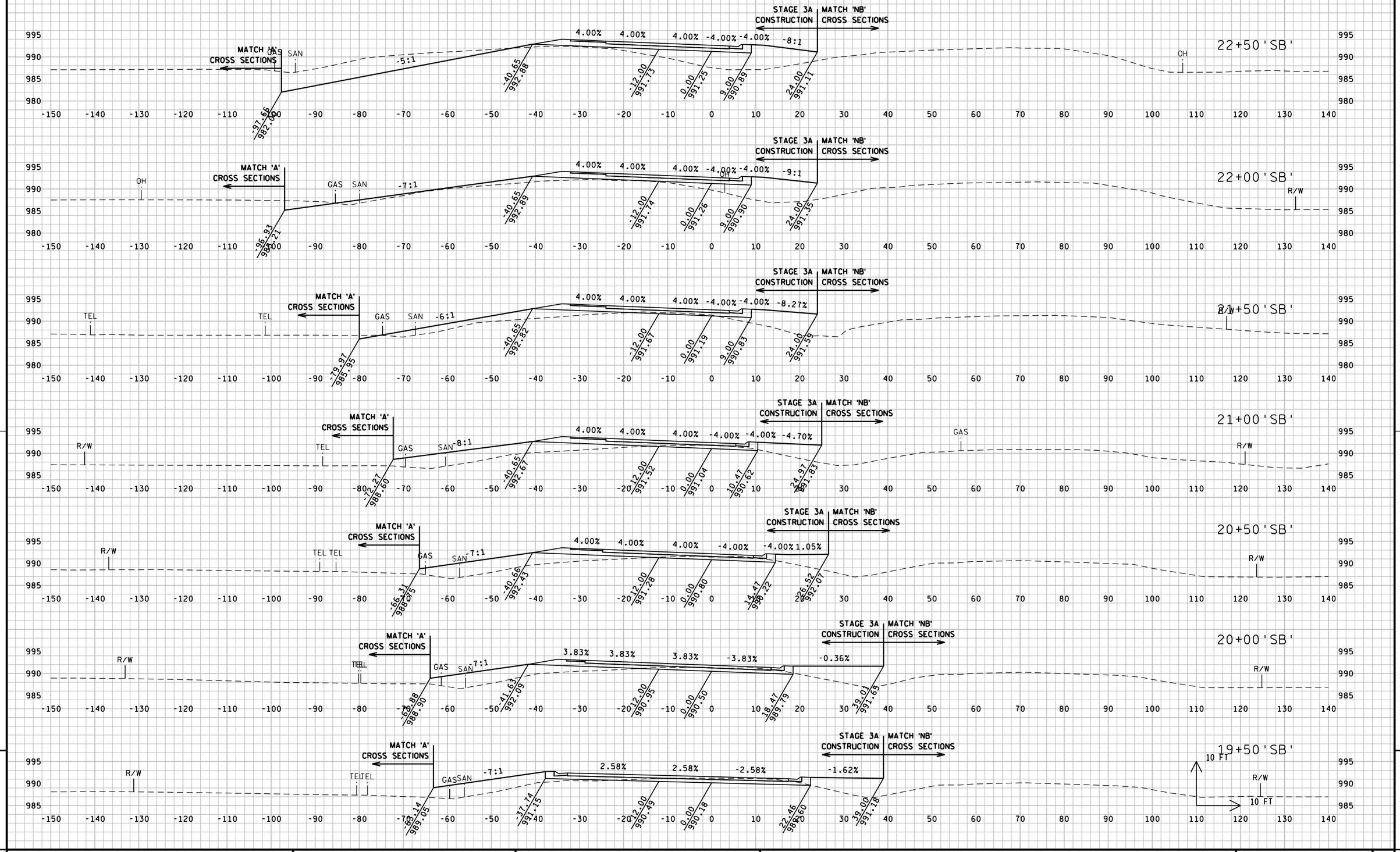
WISDOT/CADDS SHEET 21



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SB STH 35/70	SHEET 305	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\SB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



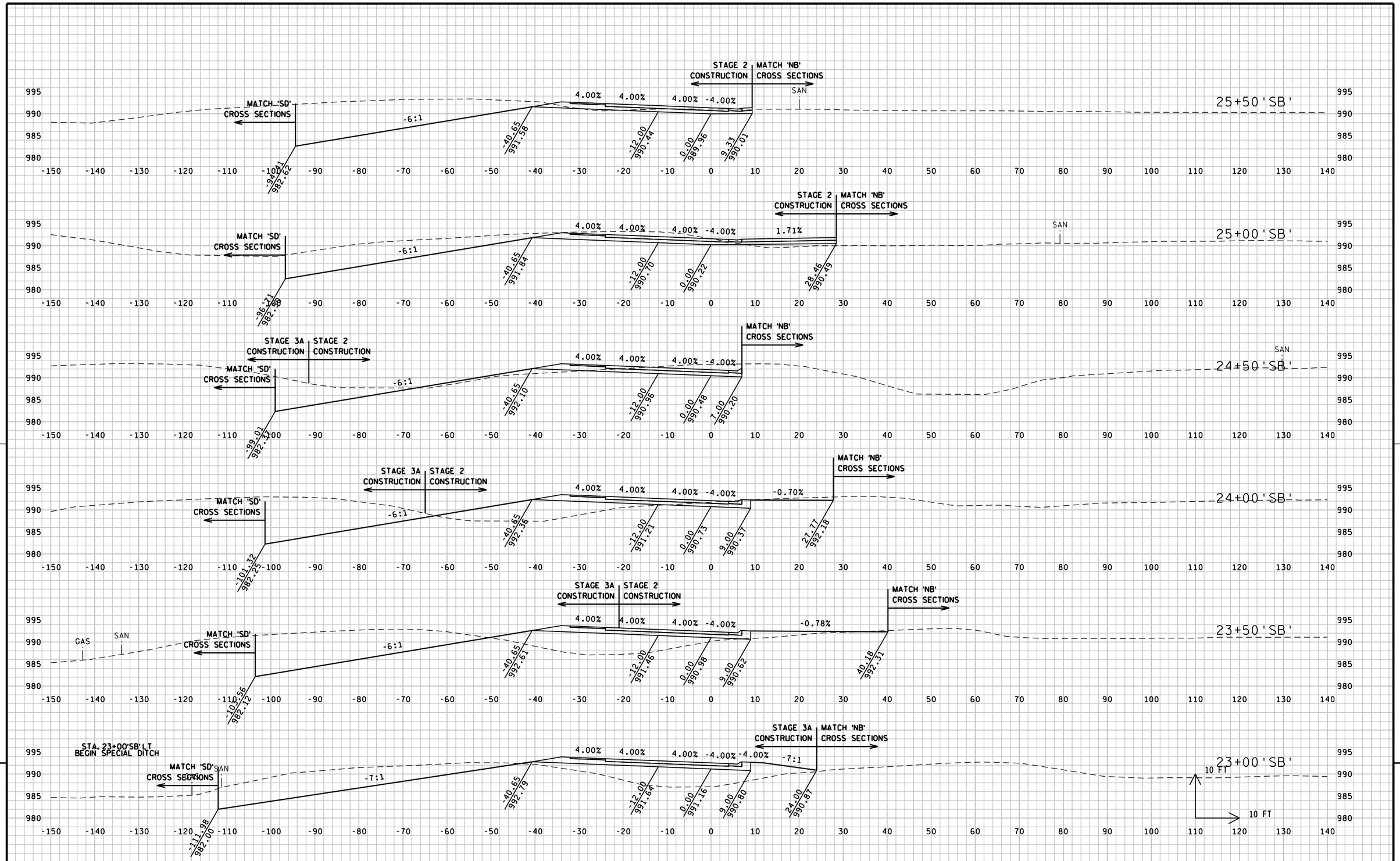
9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SB STH 35/70	SHEET 306	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\SB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

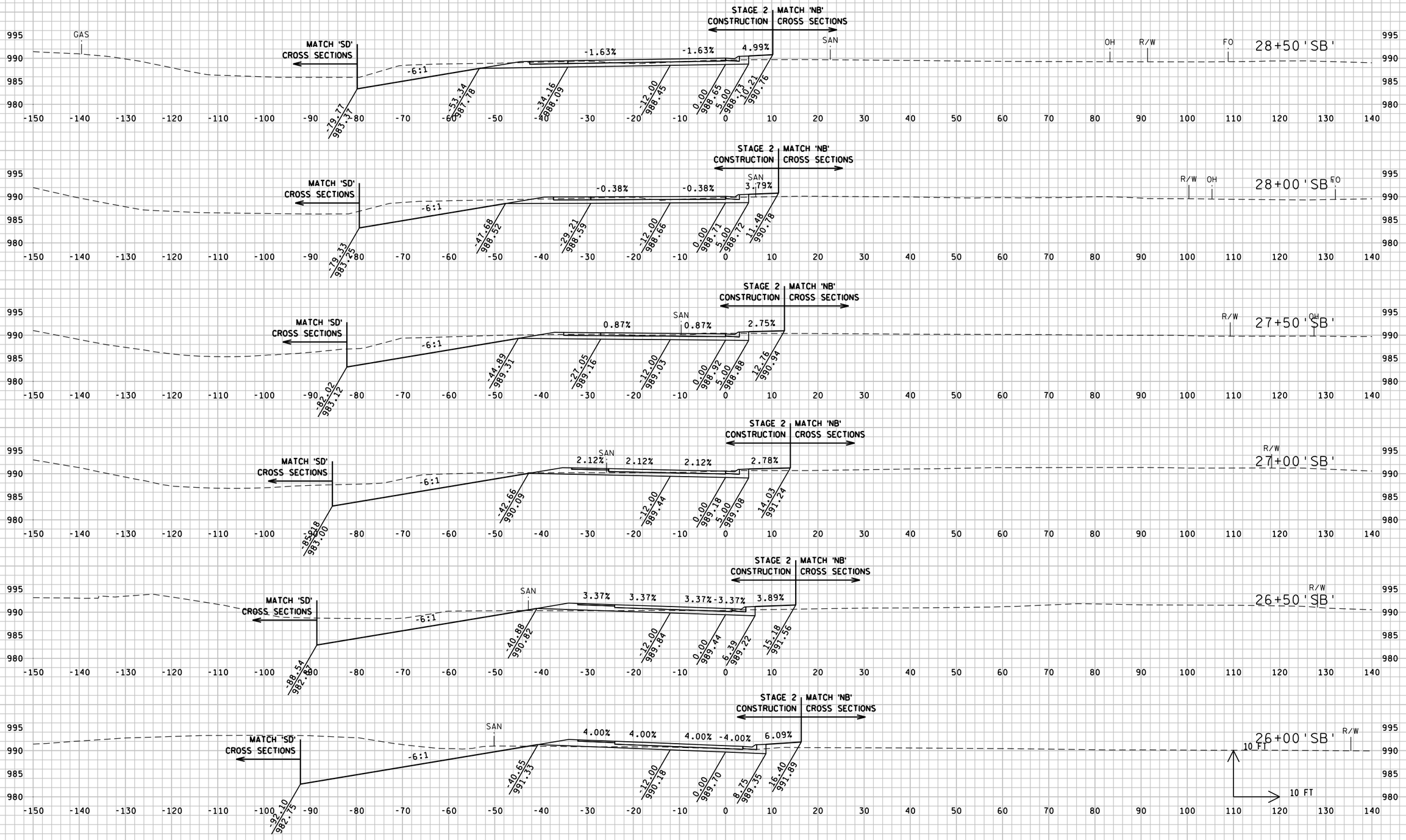
WISDOT/CADDS SHEET 21



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SB STH 35/70	SHEET 307	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\SB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



9

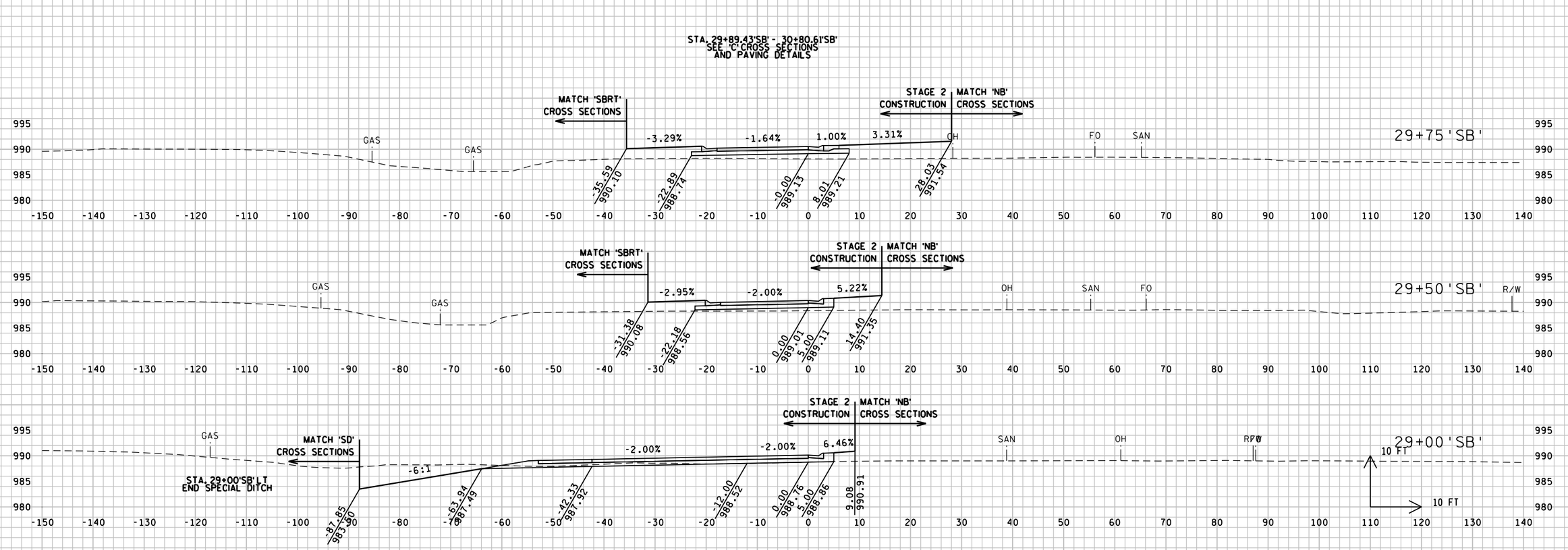
9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SB STH 35/70	SHEET 308	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\SB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21

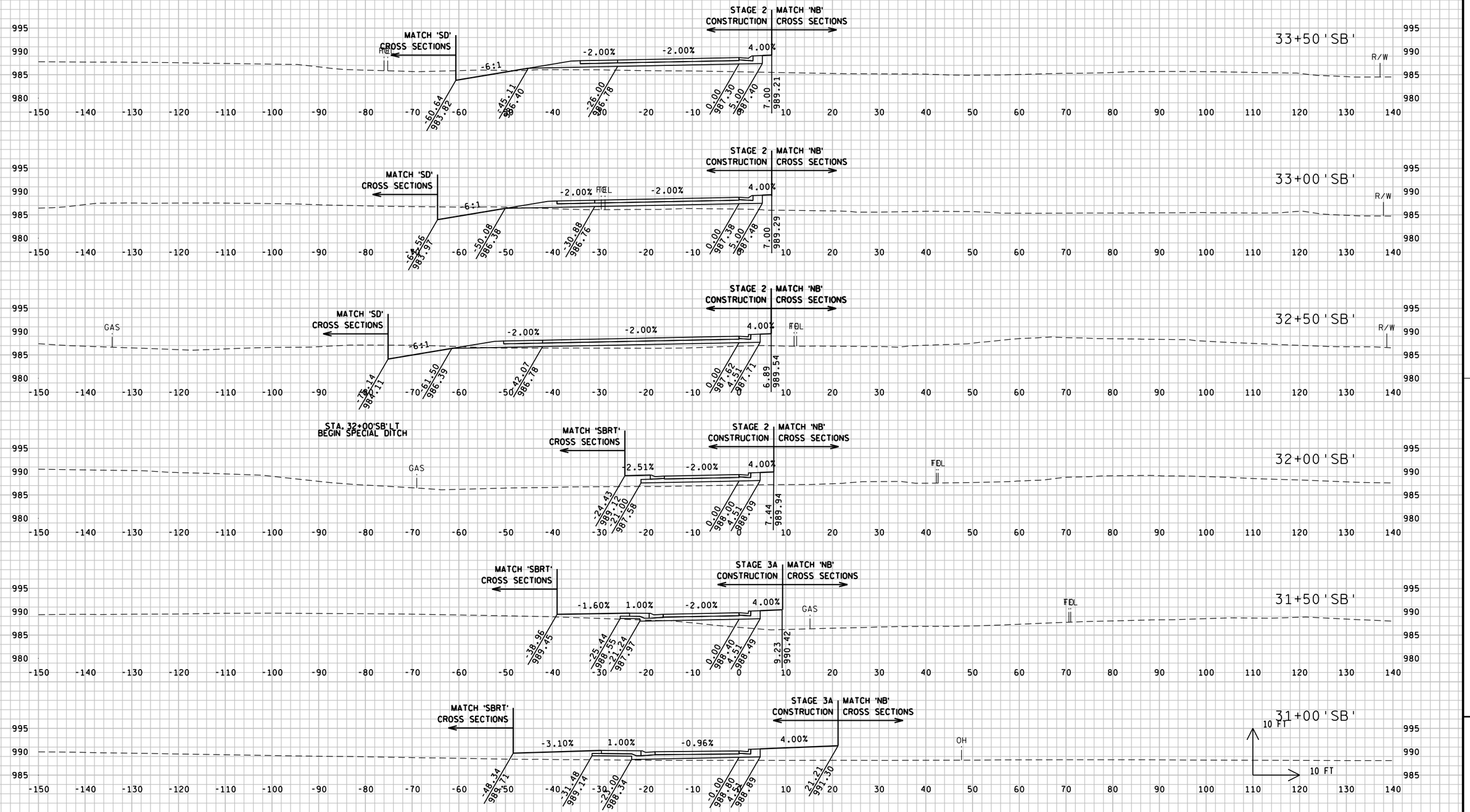
STA. 29+89.43'SB' - 30+80.61'SB'
SEE 'C' CROSS SECTIONS
AND PAVING DETAILS



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SB STH 35/70	SHEET 309	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\SB STH 35-70.dgn | PLOT DATE : 7/31/2014 | PLOT BY : GHD, Inc. | PLOT NAME : | PLOT SCALE : 20.0000 sf / in.

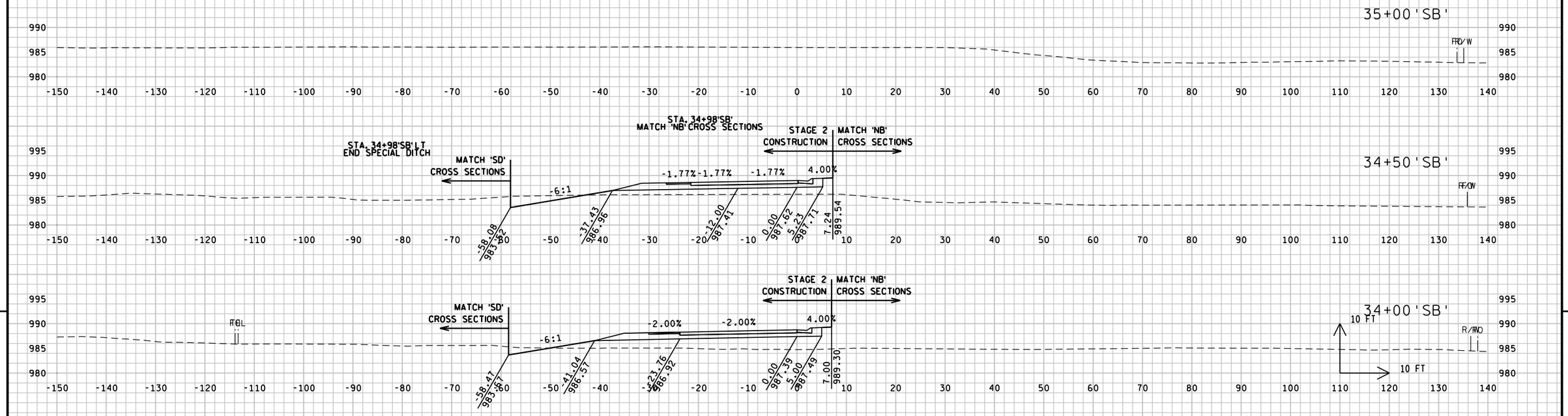
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SB STH 35	SHEET 310	E



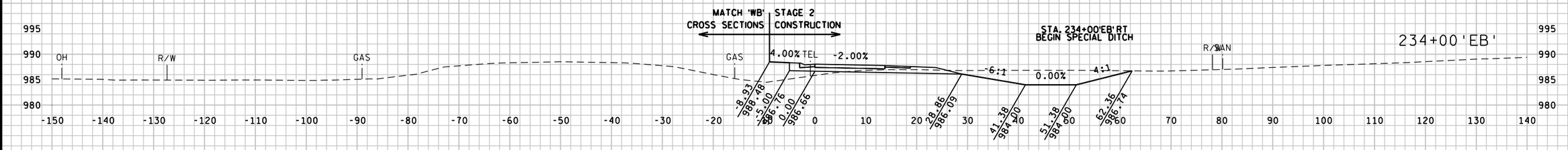
9

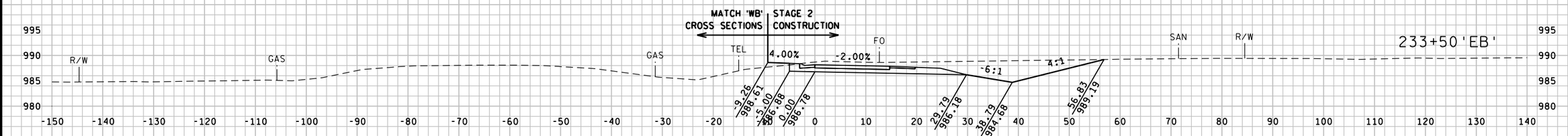
9

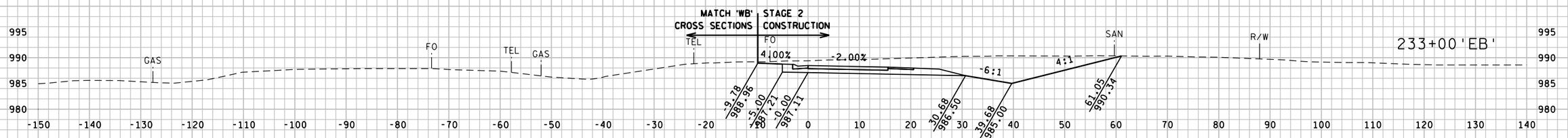
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SB STH 35	SHEET 311	E

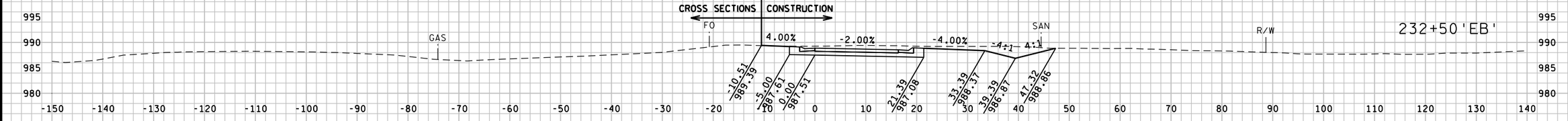
FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\SB STH 35-70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

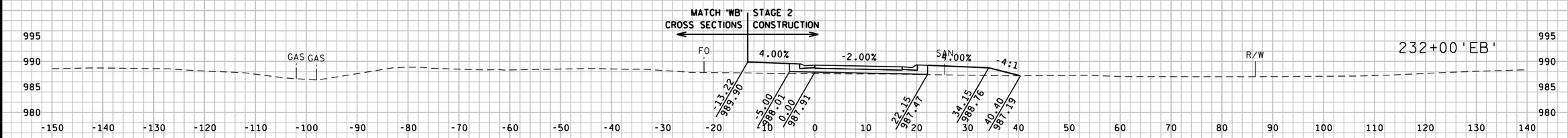
WISDOT/CADDS SHEET 21

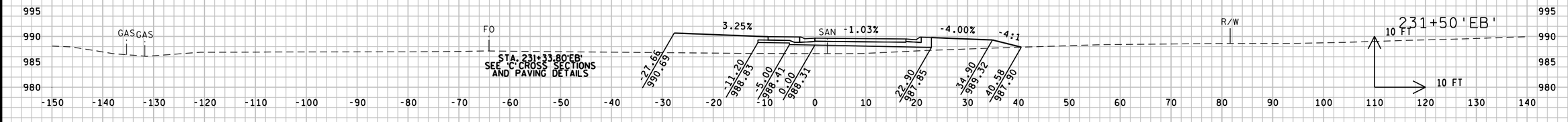










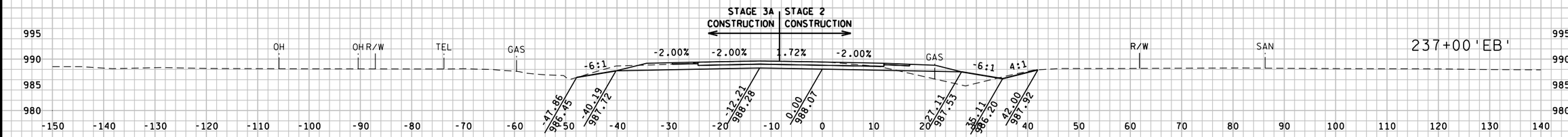


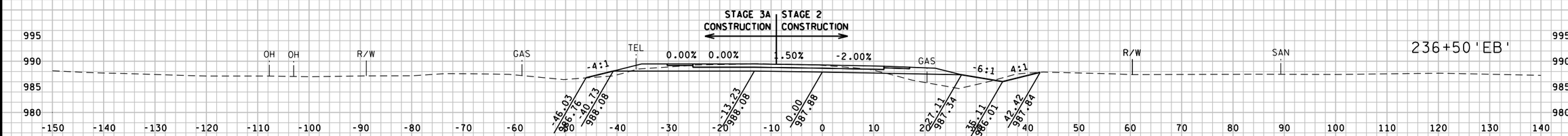
9

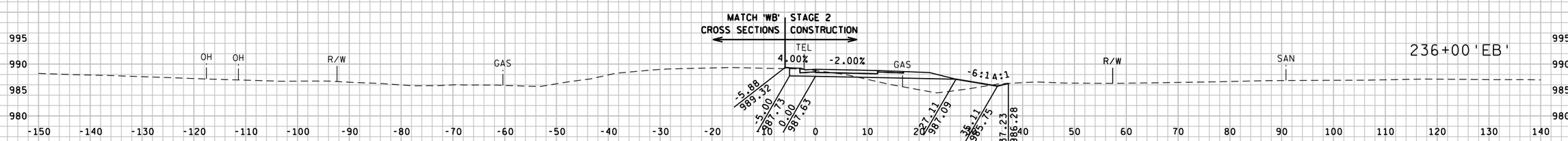
9

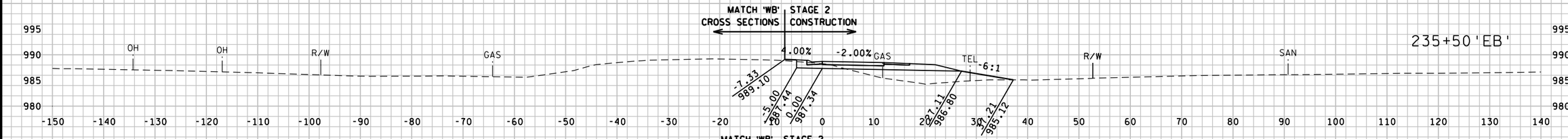
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: EB STH 70	SHEET 312	E

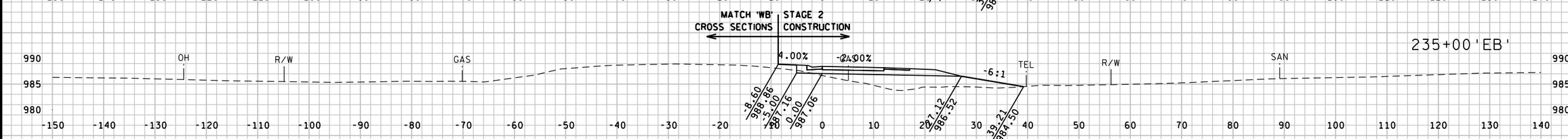
STA. 237+00'EB'
END RECONSTRUCTION
BEGIN MILL AND WIDENING
MATCH EXISTING

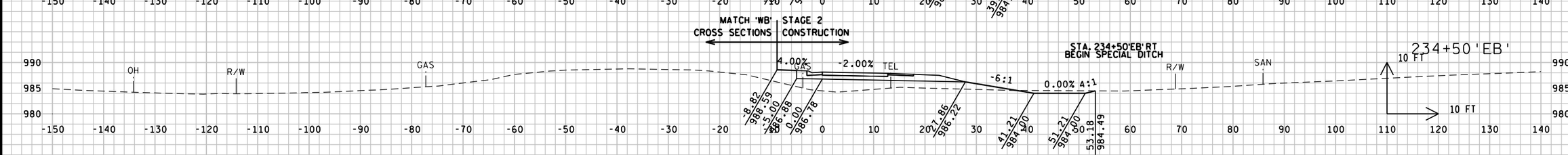












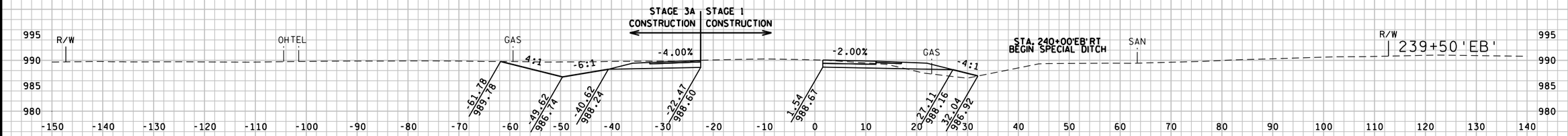
9

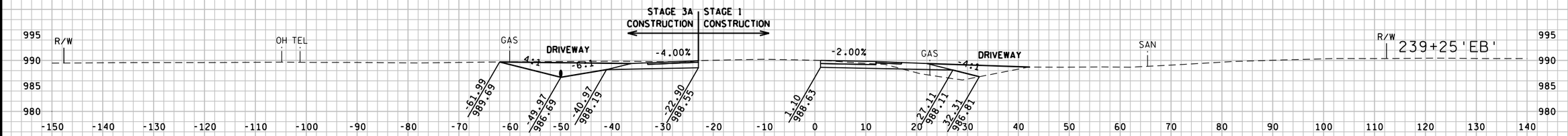
9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: EB STH 70	SHEET	E

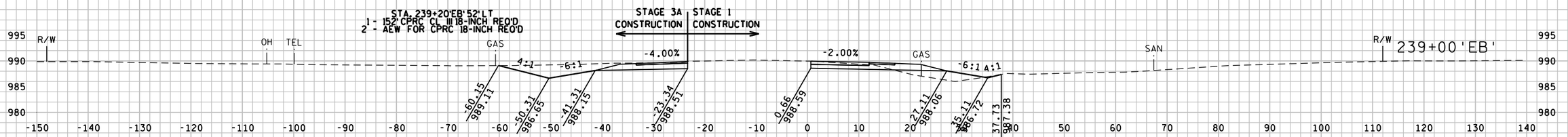
FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\EB STH 70.dgn
PLOT DATE : 7/31/2014
PLOT BY : GHD, Inc.
PLOT NAME :
PLOT SCALE : 20.0000 sf / in.
WISDOT/CADDS SHEET 21

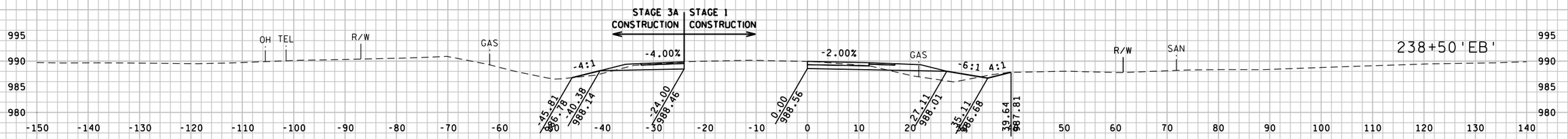
STA. 240+00'EB'RT
BEGIN SPECIAL DITCH

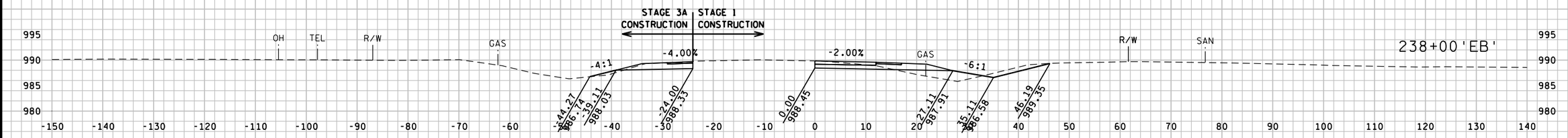


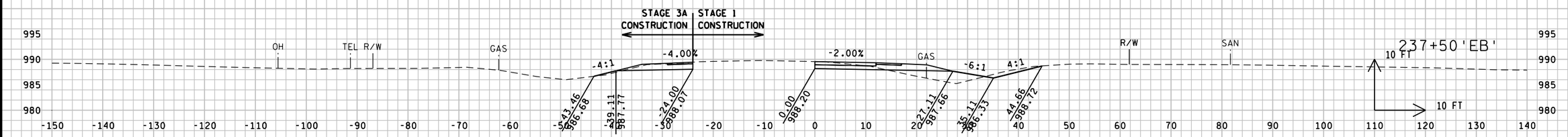


STA. 239+20'EB'52'LT
1 - 152" CPRC CL III 18-INCH REQ'D
2 - AEW FOR CPRC 18-INCH REQ'D





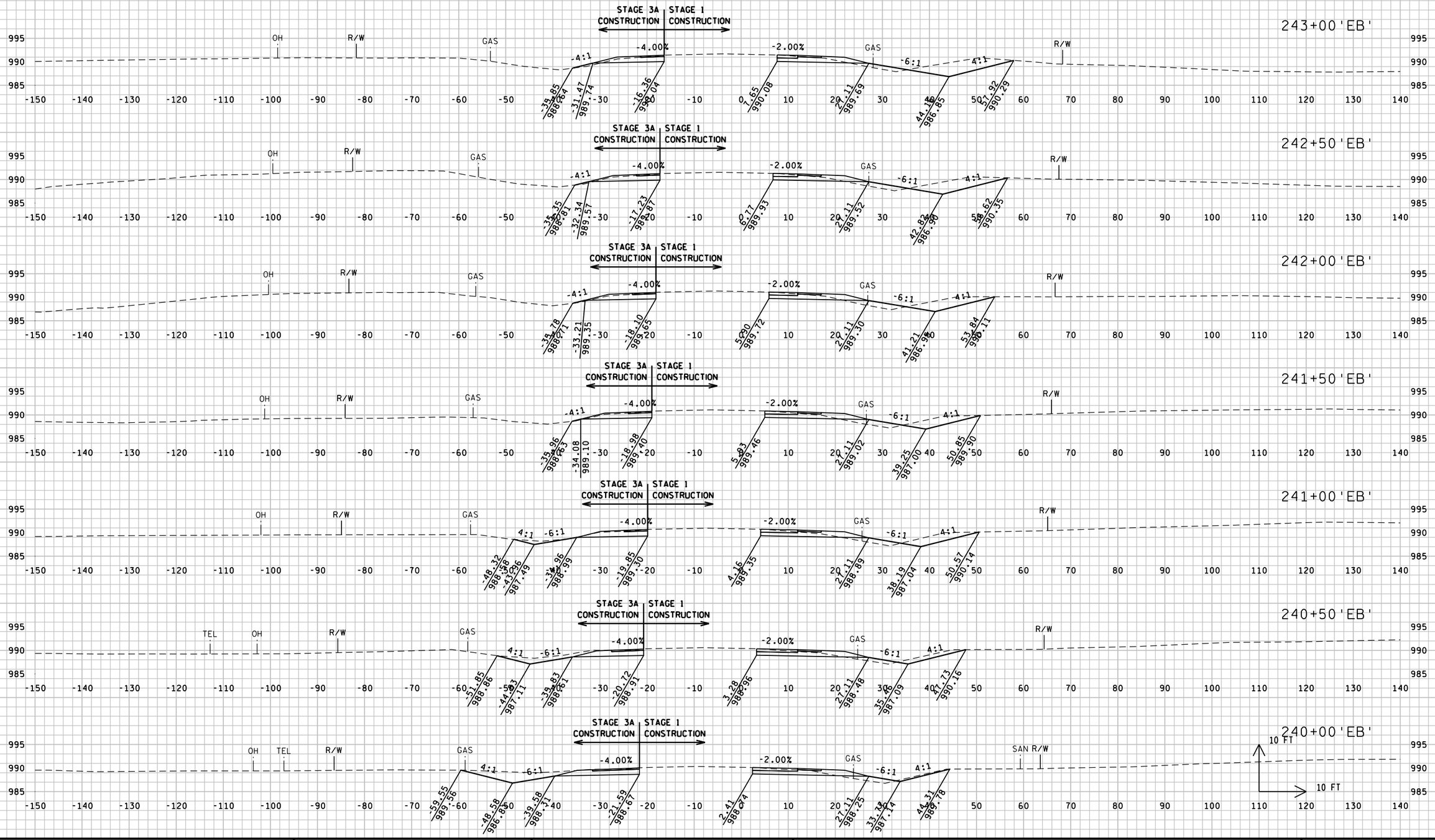




9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: EB STH 70	SHEET 314	E



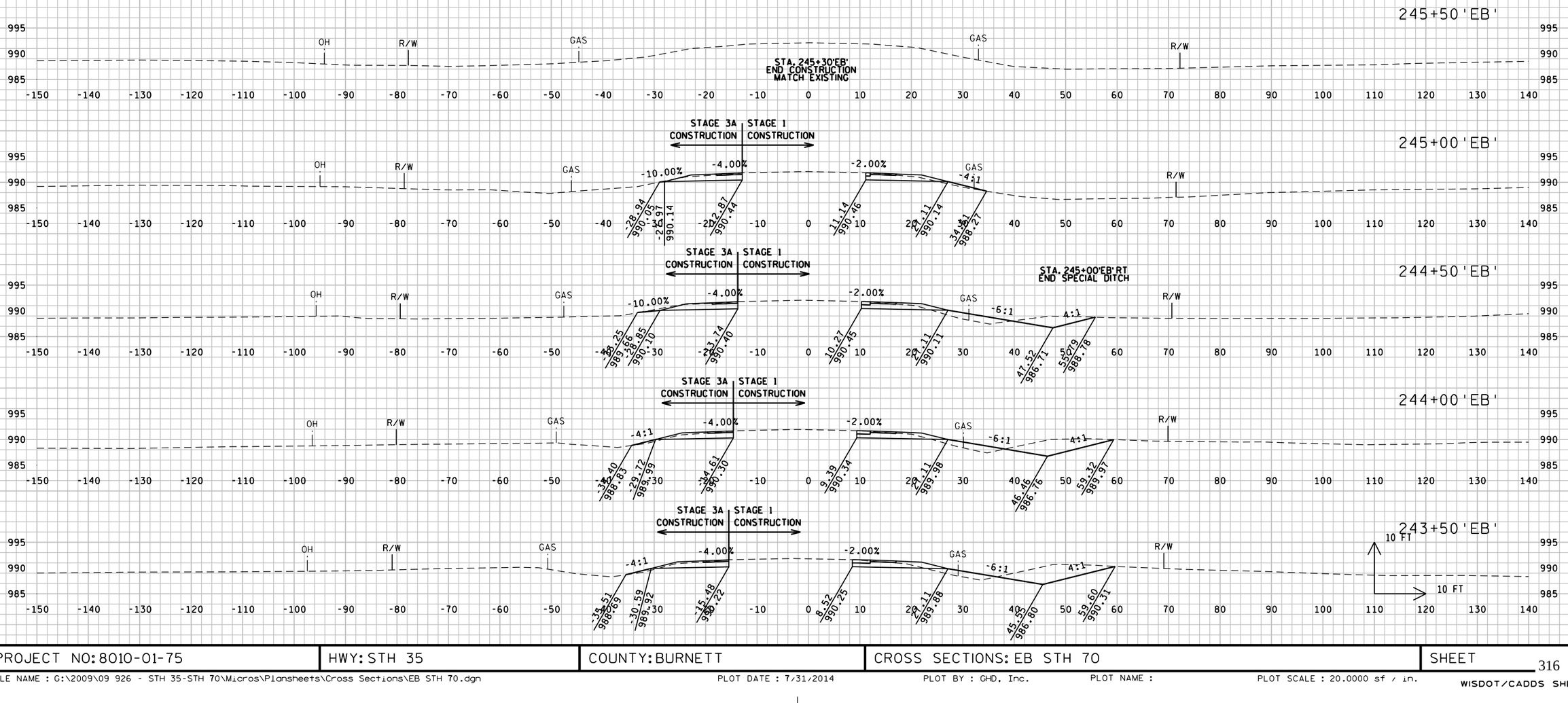
9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: EB STH 70	SHEET 315	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\EB STH 70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



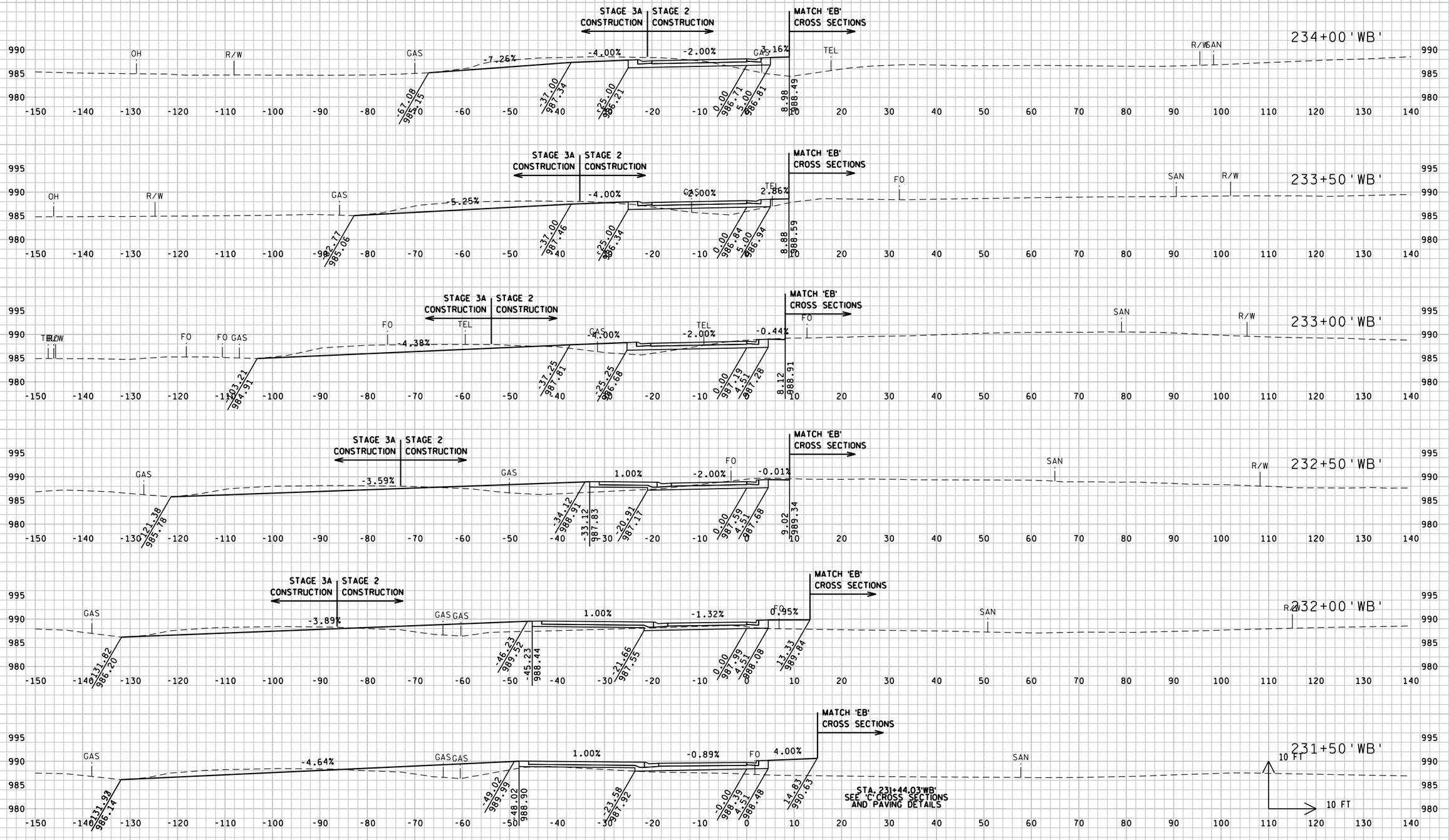
9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: EB STH 70	SHEET 316	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\EB STH 70.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



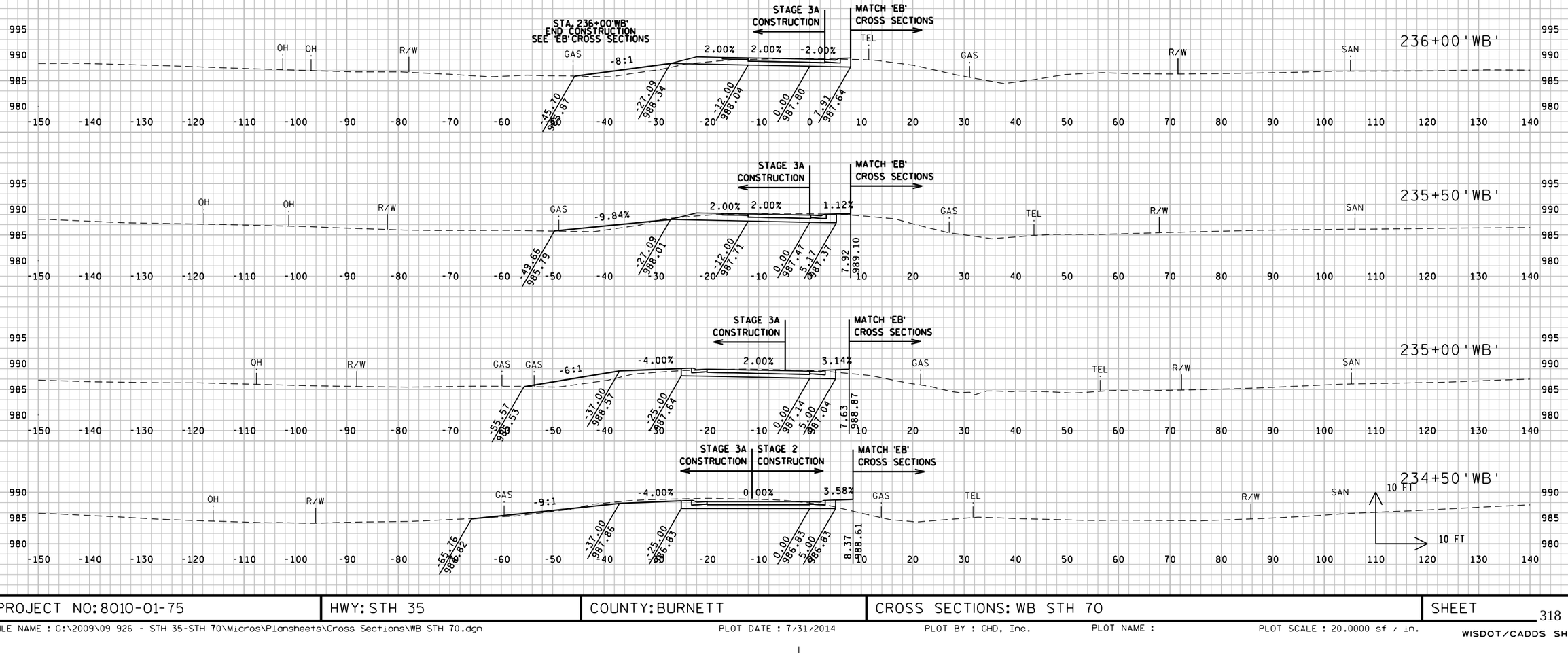
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: WB STH 70	SHEET 317	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\WB STH 70.dgn | PLOT DATE : 7/31/2014 | PLOT BY : GHD, Inc. | PLOT NAME : | PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21

9

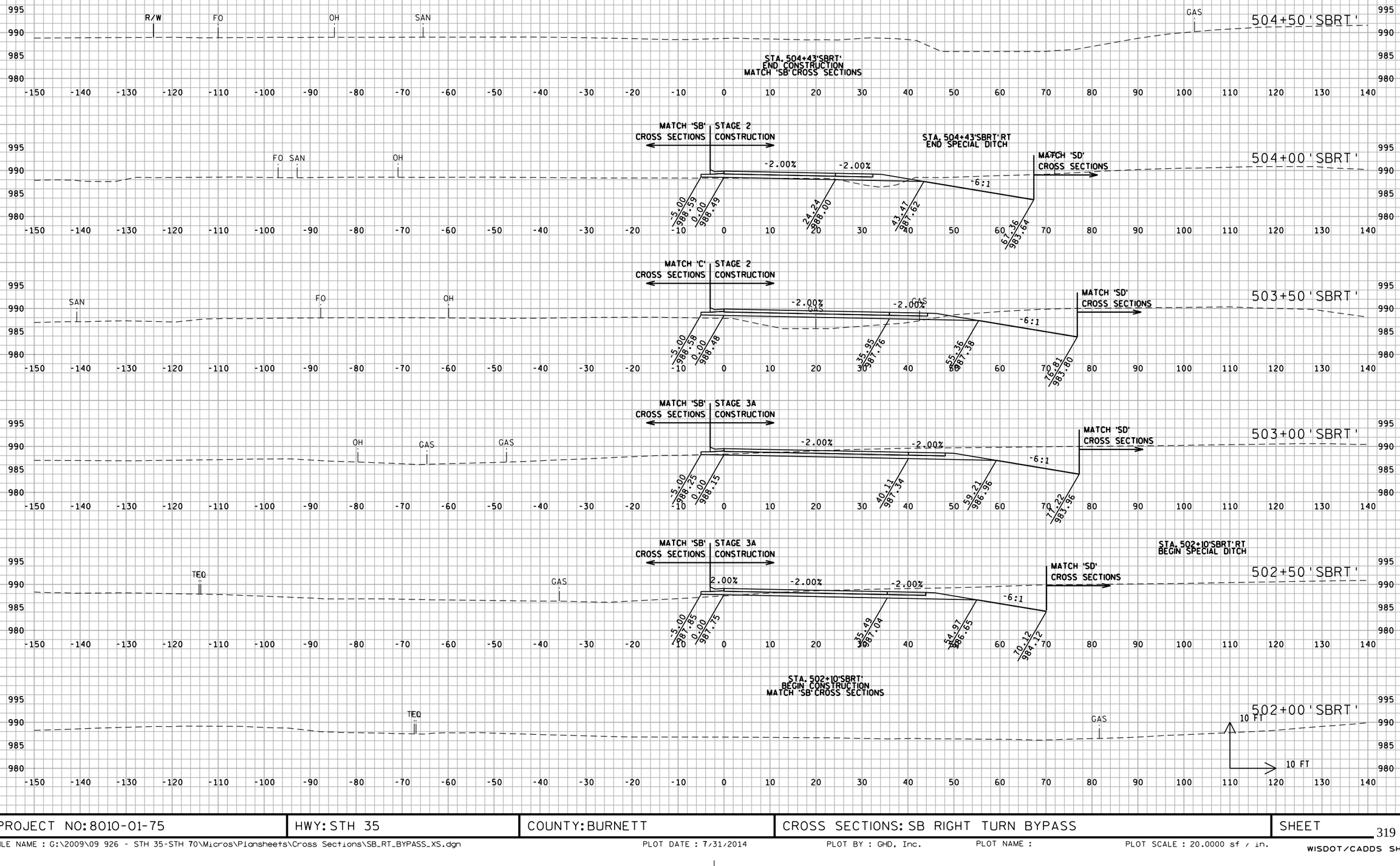
9



9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: WB STH 70	SHEET 318	E

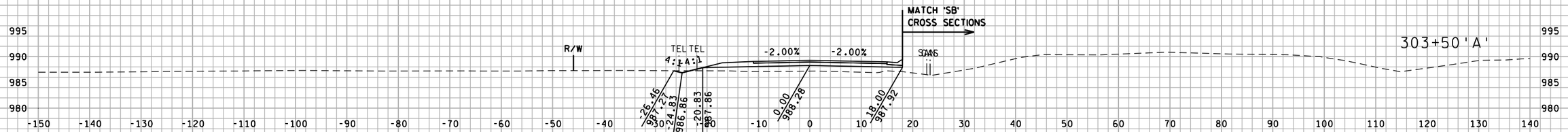


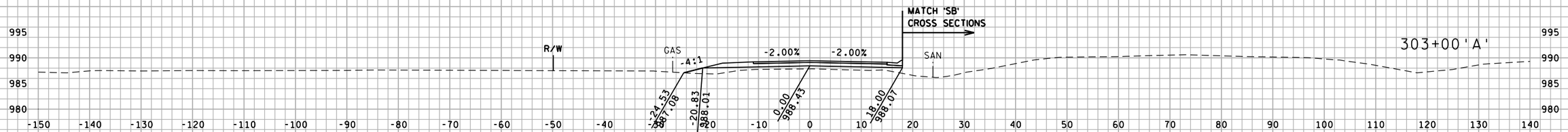
9

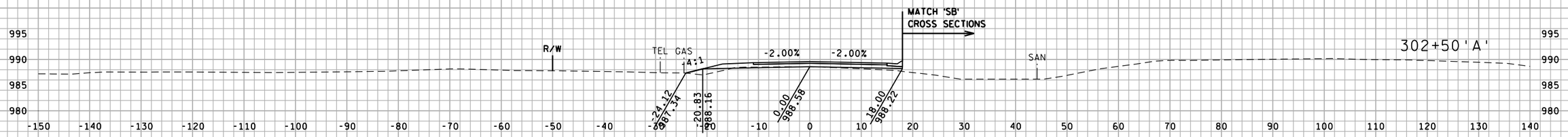
9

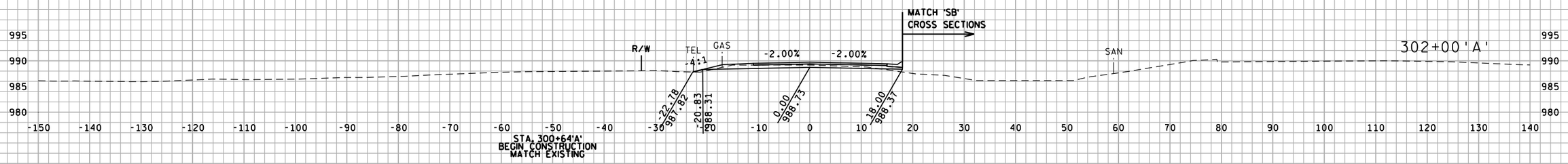
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SB RIGHT TURN BYPASS	SHEET 319	E

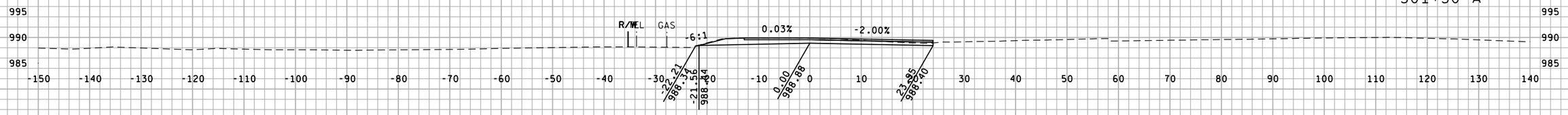
ALL WORK COMPLETED IN STAGE 2

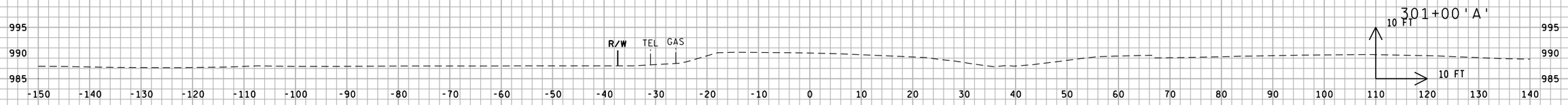












9

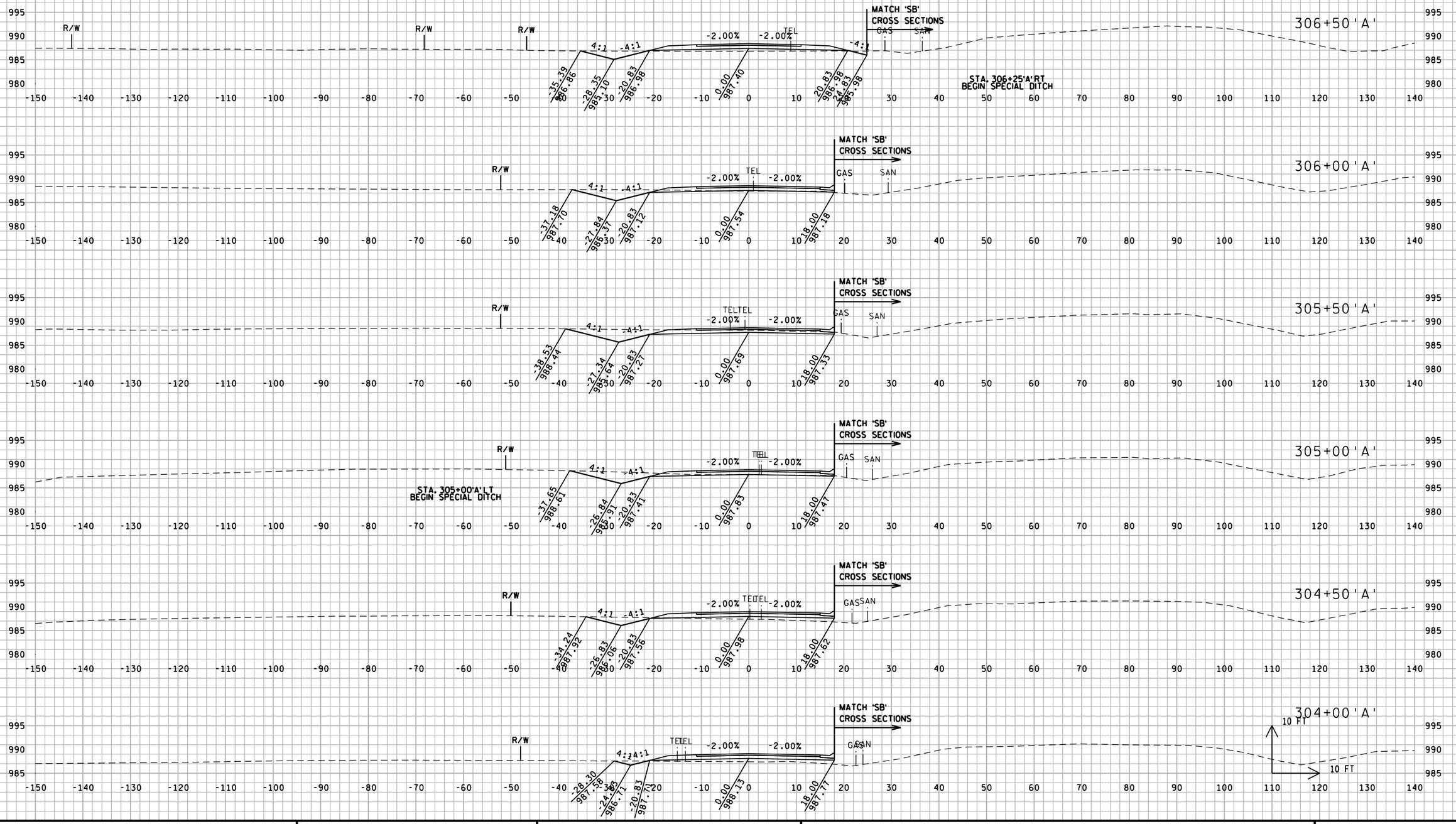
9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: AIRPORT RD	SHEET 320	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\Airport Road XS.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 2



9

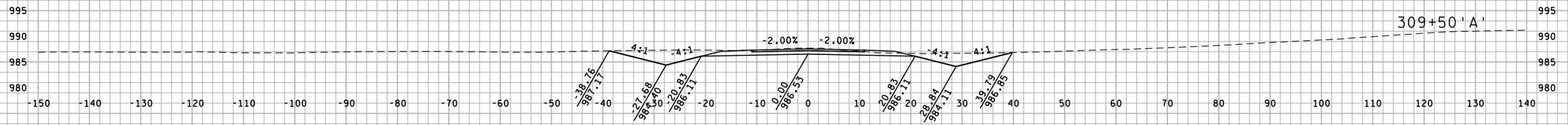
9

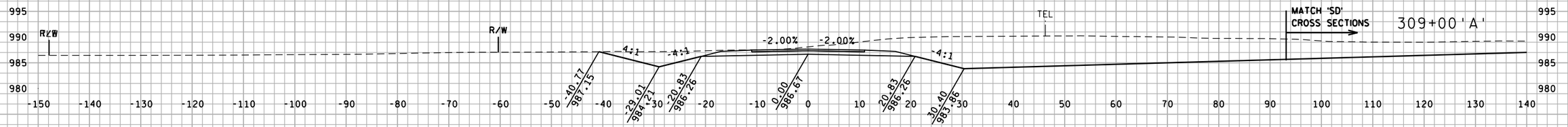
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: AIRPORT RD	SHEET 321	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\Airport Road XS.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

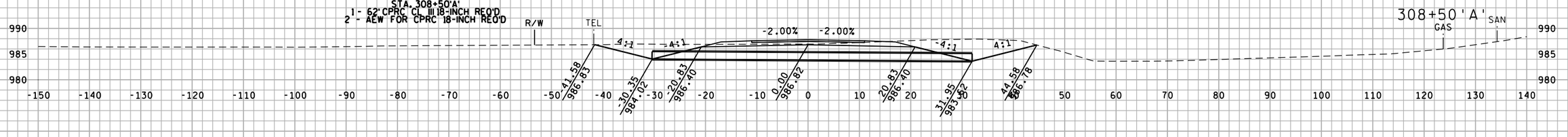
WISDOT/CADDS SHEET 21

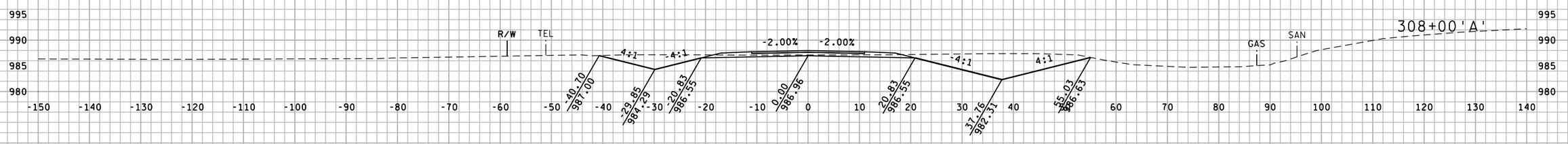
ALL WORK COMPLETED IN STAGE 2

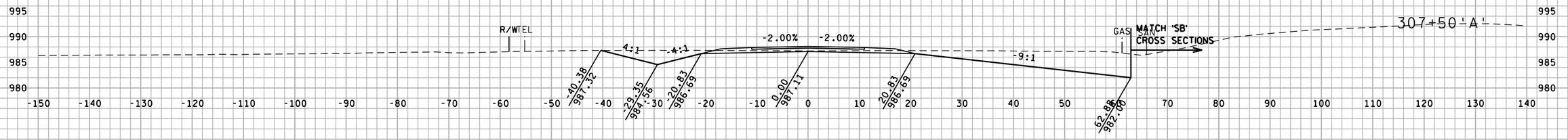


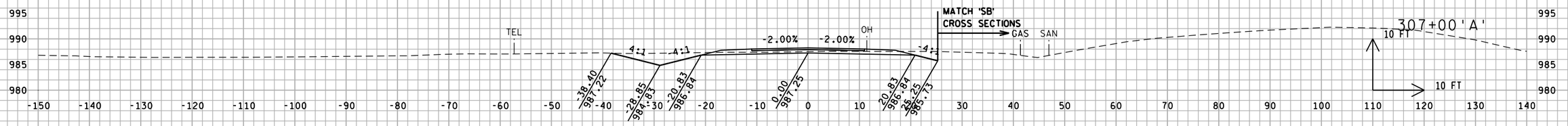


STA. 308+50'A'
1 - 62'CPRC CL III 18-INCH REQ'D
2 - AEW FOR CPRC 18-INCH REQ'D



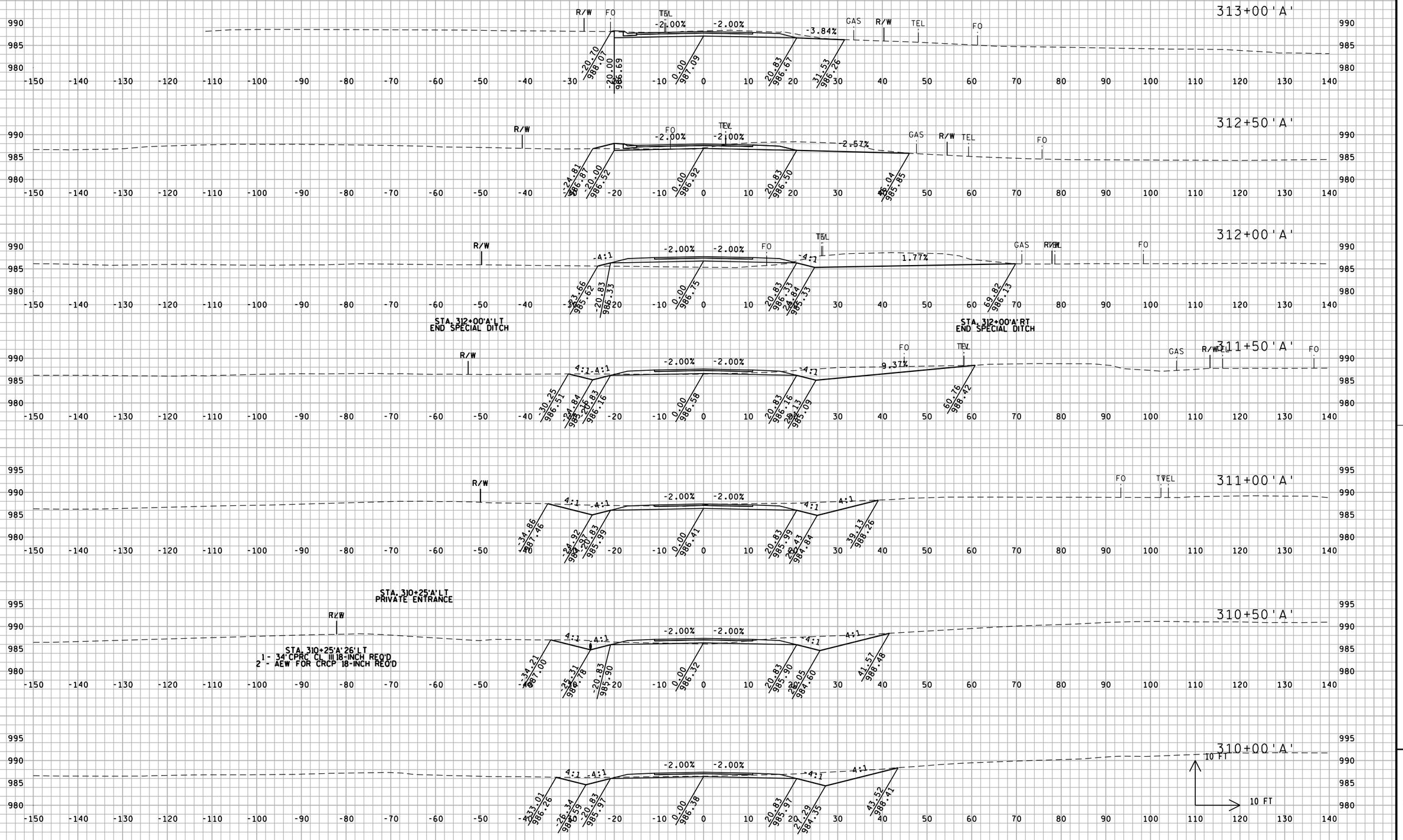






PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: AIRPORT RD	SHEET 322	E

ALL WORK COMPLETED IN STAGE 2

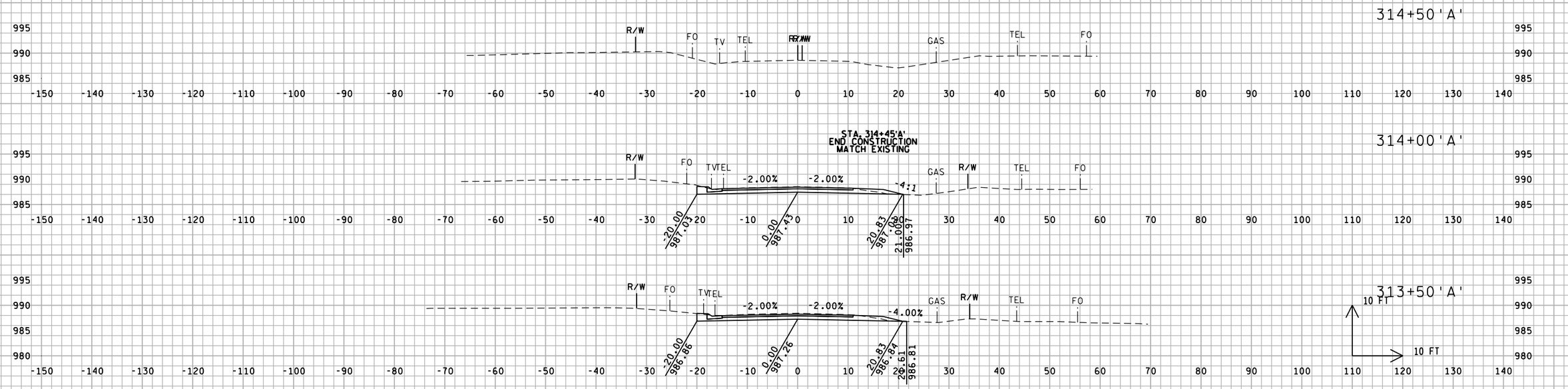


PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: AIRPORT RD	SHEET 323	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\Airport Road XS.dgn | PLOT DATE : 7/31/2014 | PLOT BY : GHD, Inc. | PLOT NAME : | PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 2



9

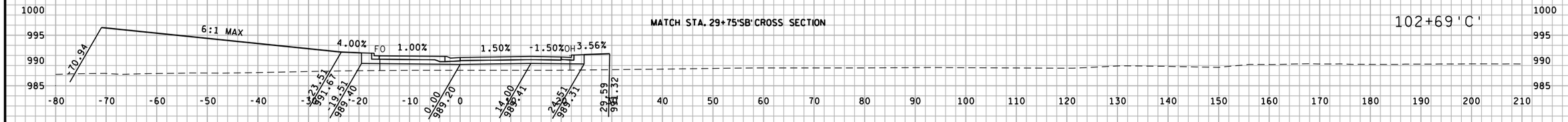
9

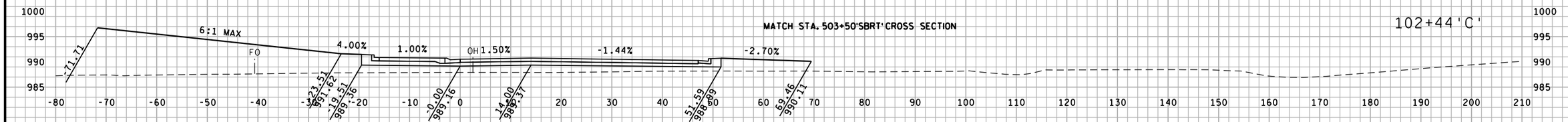
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: AIRPORT RD	SHEET 324	E

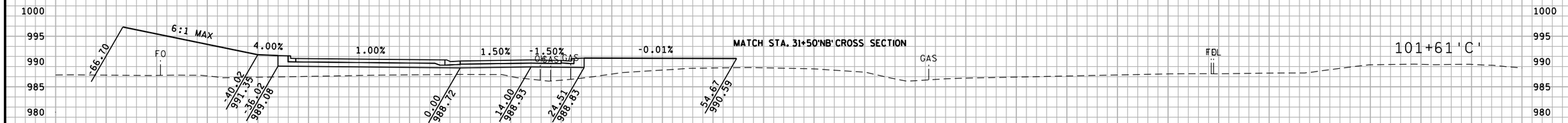
FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\Airport Road XS.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

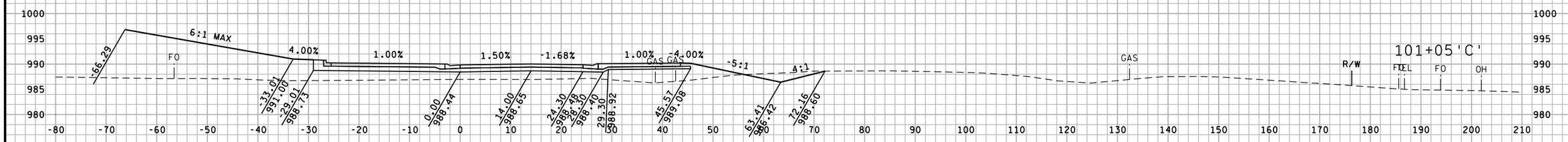
WISDOT/CADDS SHEET 21

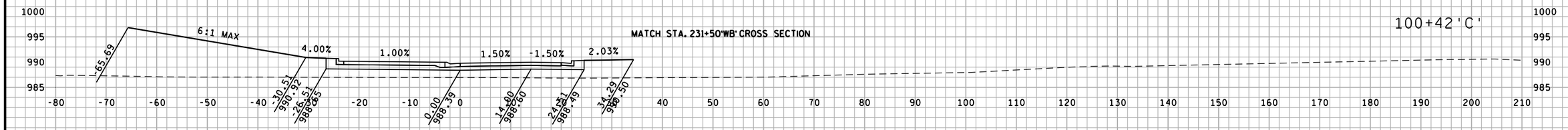
ALL WORK COMPLETED IN STAGE 2

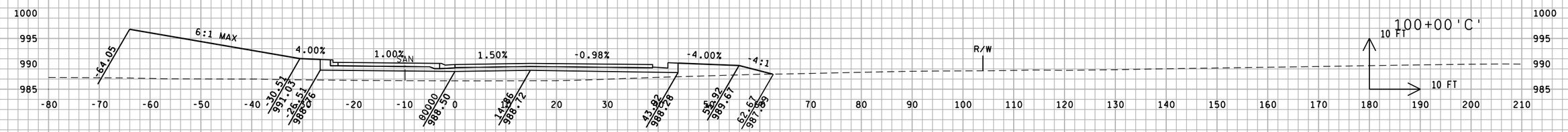










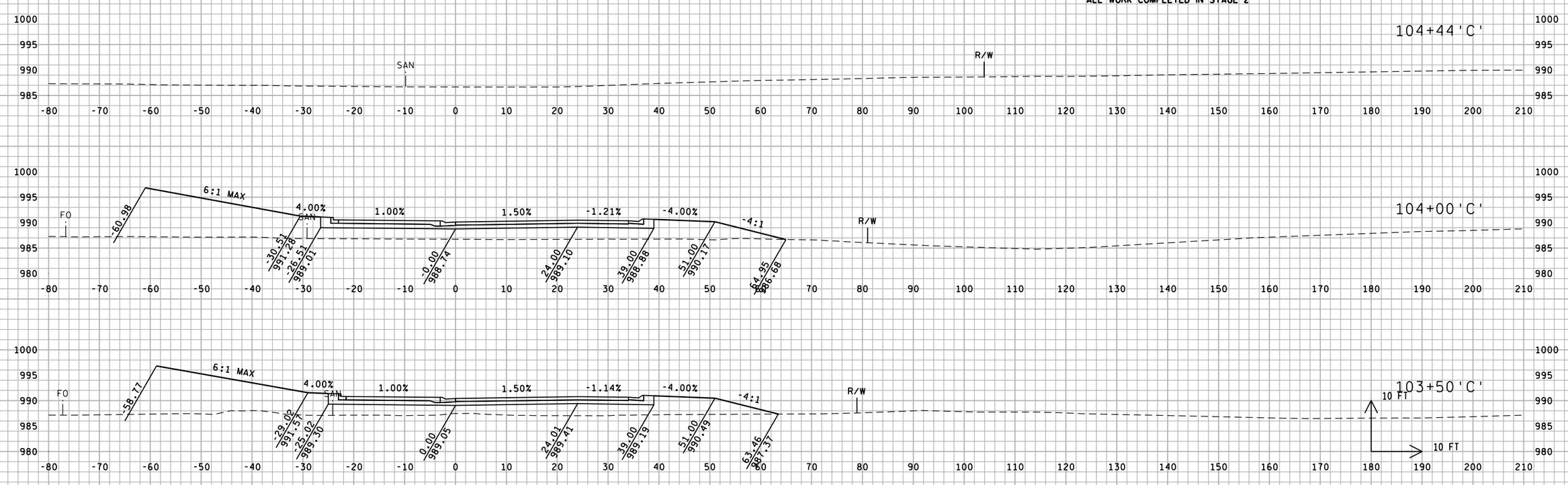


9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: CIRCLE	SHEET 325	E

ALL WORK COMPLETED IN STAGE 2



9

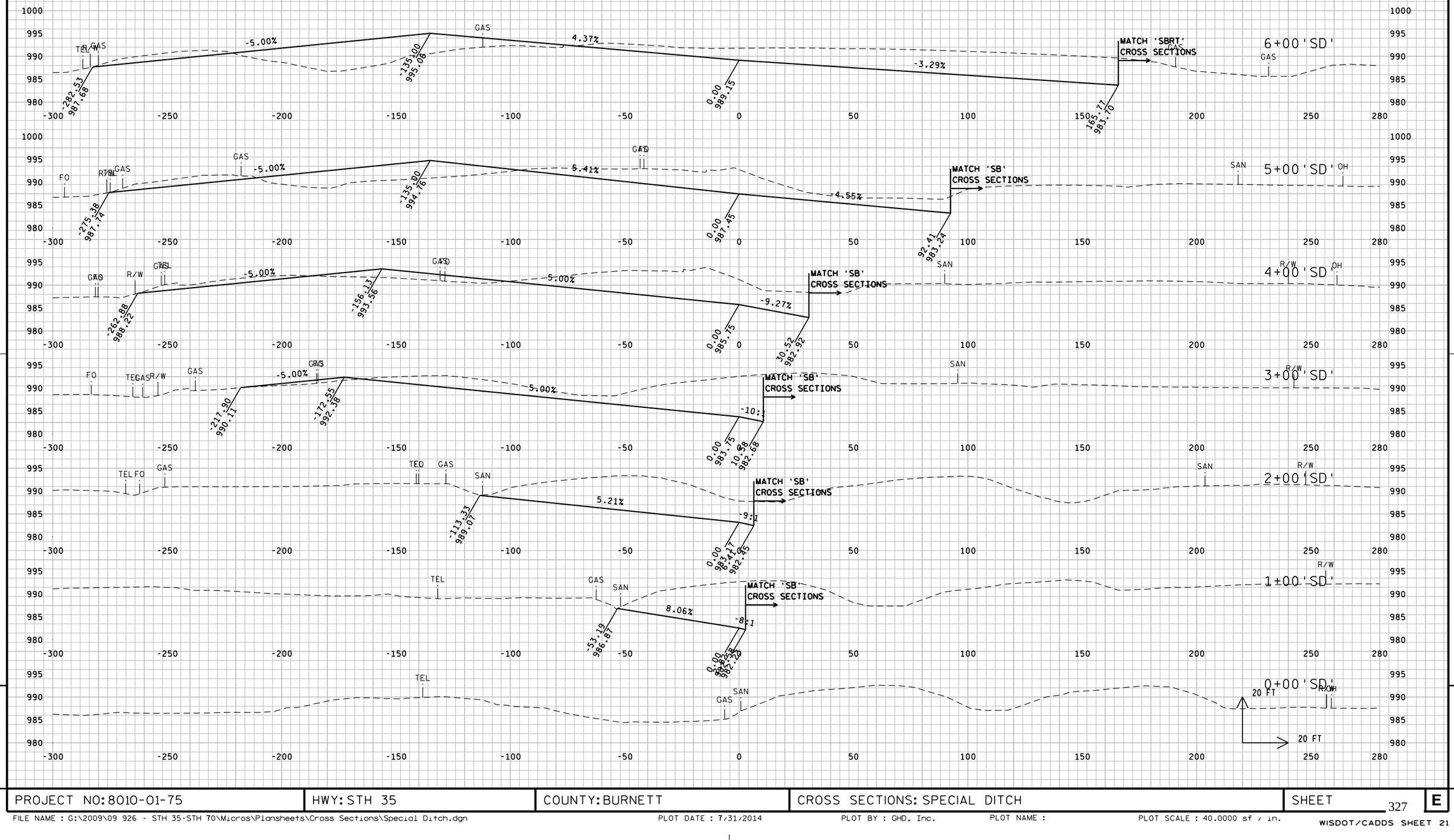
9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: CIRCLE	SHEET 326	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\Circle.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 3A

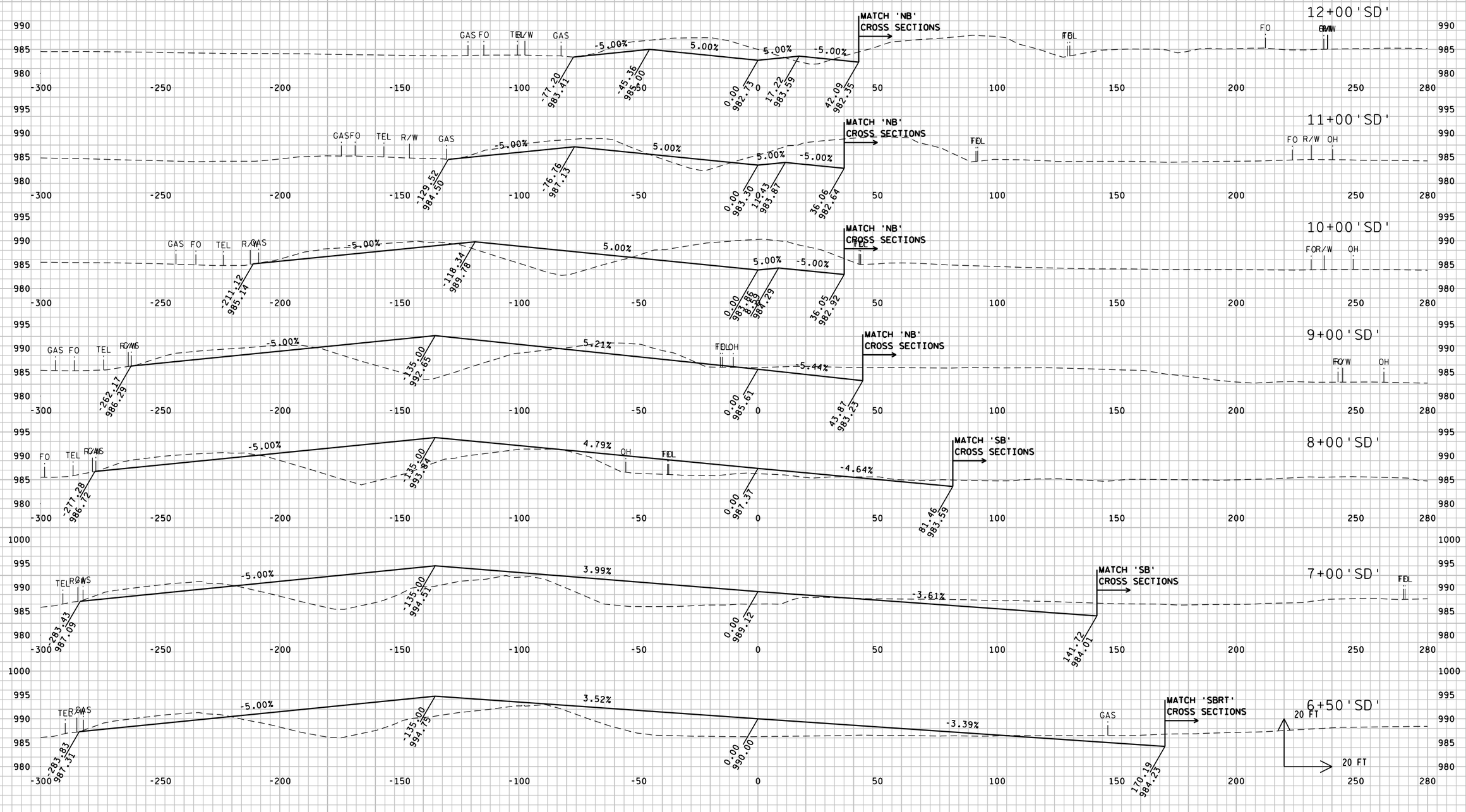


9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SPECIAL DITCH	SHEET 327	E

ALL WORK COMPLETED IN STAGE 3A

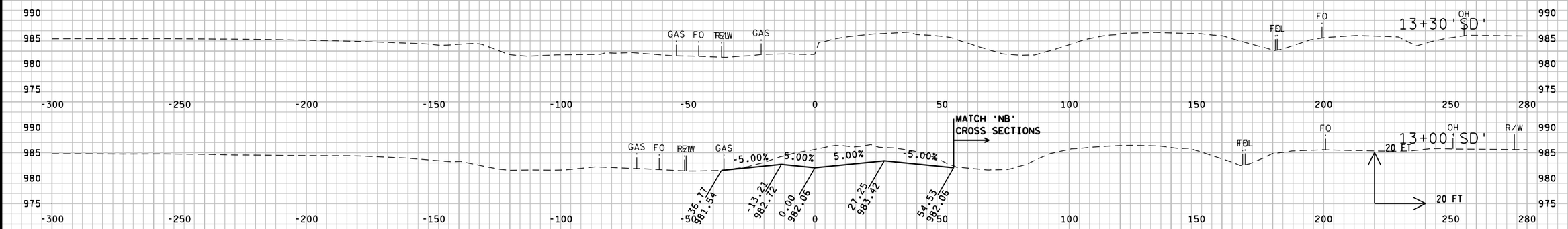


PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SPECIAL DITCH	SHEET 328	E

FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\Special Ditch.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 3A



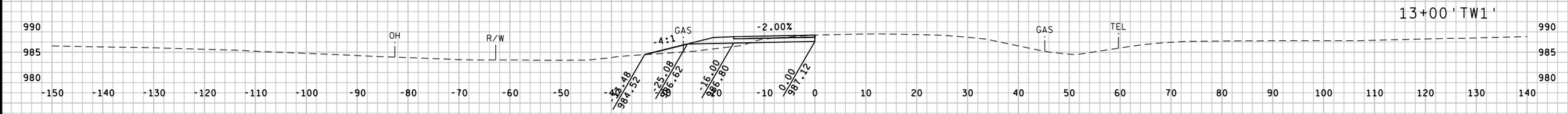
9

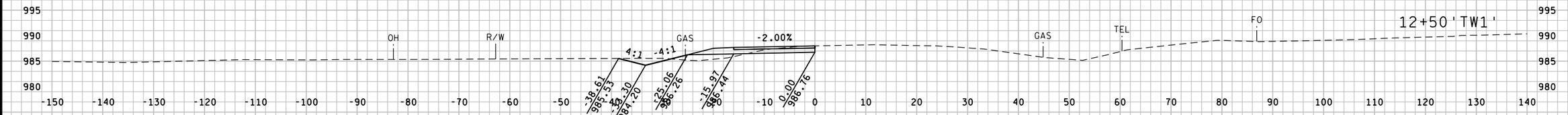
9

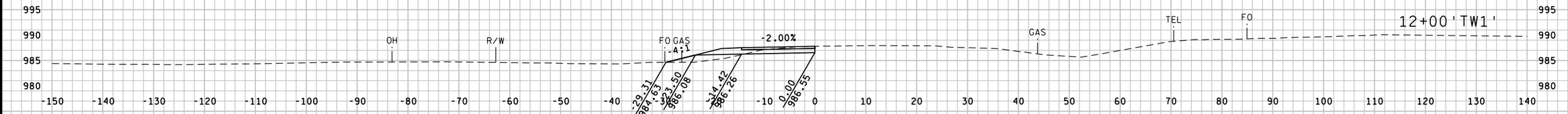
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: SPECIAL DITCH	SHEET	E

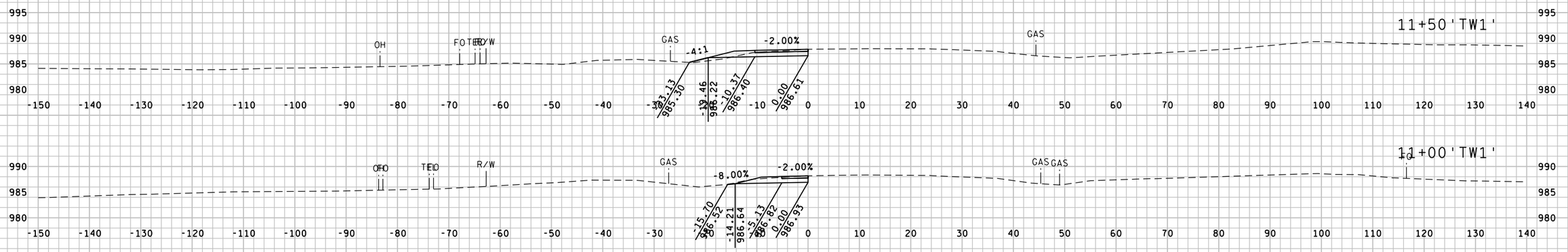
FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\Special Ditch.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 21









9

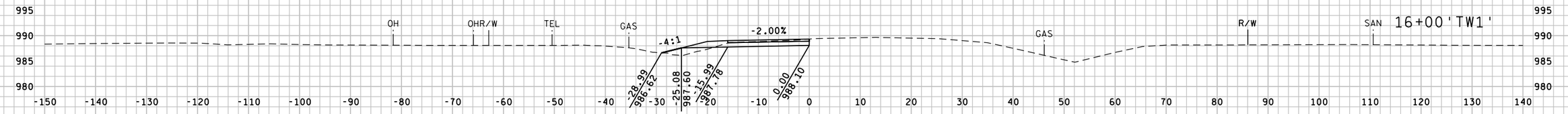
9

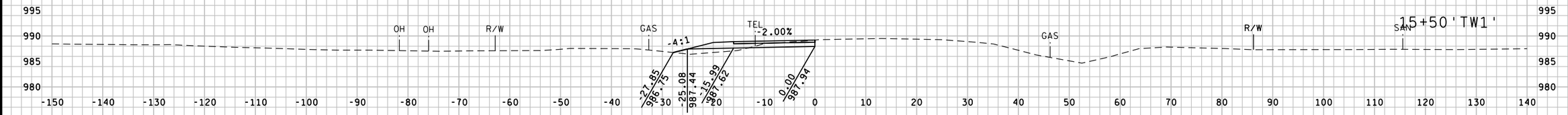
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: TW1	SHEET 330	E

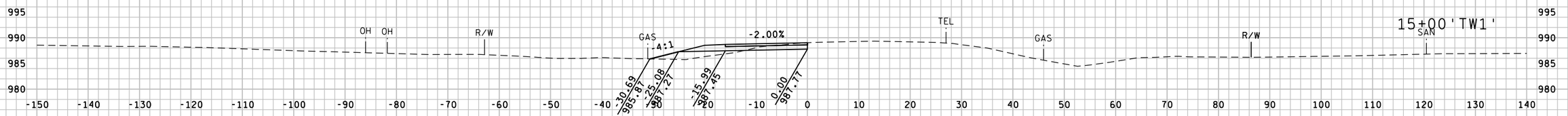
FILE NAME : G:\2009\09 926 - STH 35-STH 70\Micros\Plansheets\Cross Sections\TW1.dgn PLOT DATE : 7/31/2014 PLOT BY : GHD, Inc. PLOT NAME : PLOT SCALE : 20.0000 sf / in.

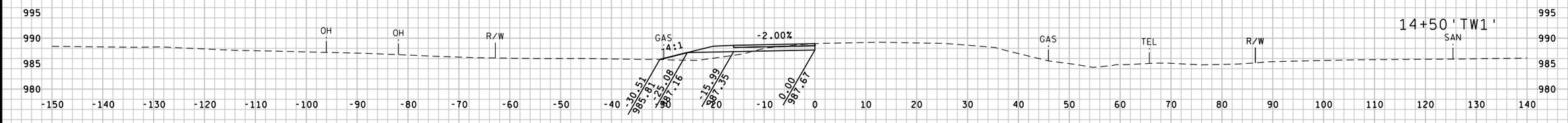
WISDOT/CADDS SHEET 21

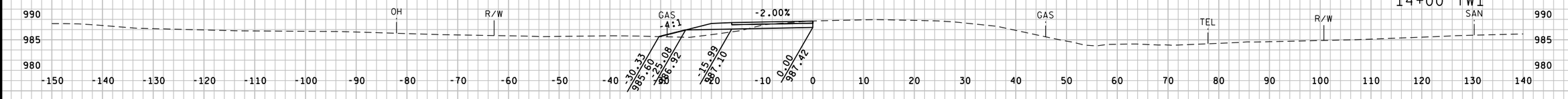
ALL WORK COMPLETED IN STAGE 1

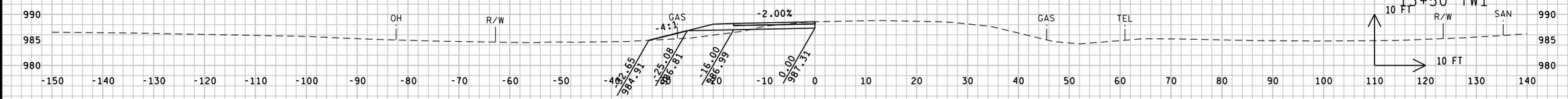












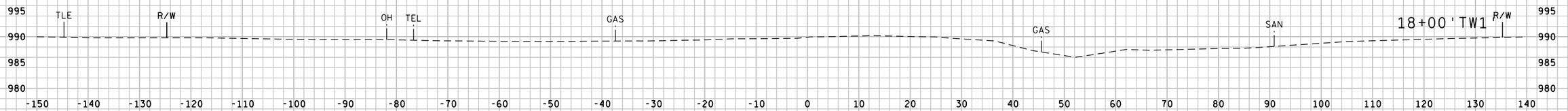
9

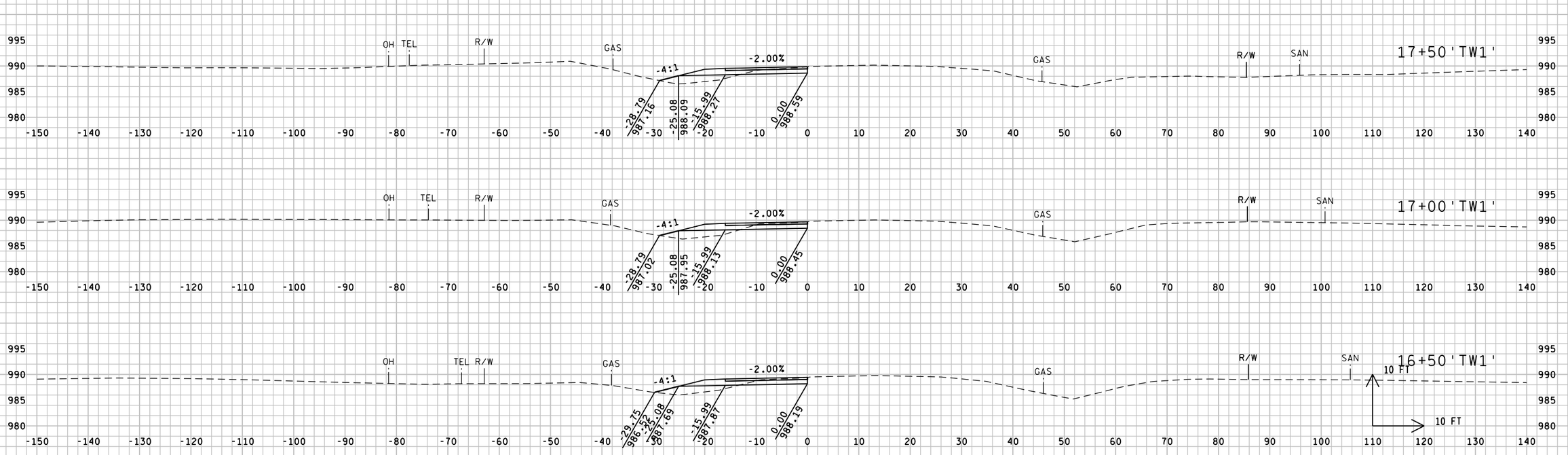
9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: TW1	SHEET 331	E

ALL WORK COMPLETED IN STAGE 1

STA. 18+00'TW1'
END TEMPORARY WIDENING



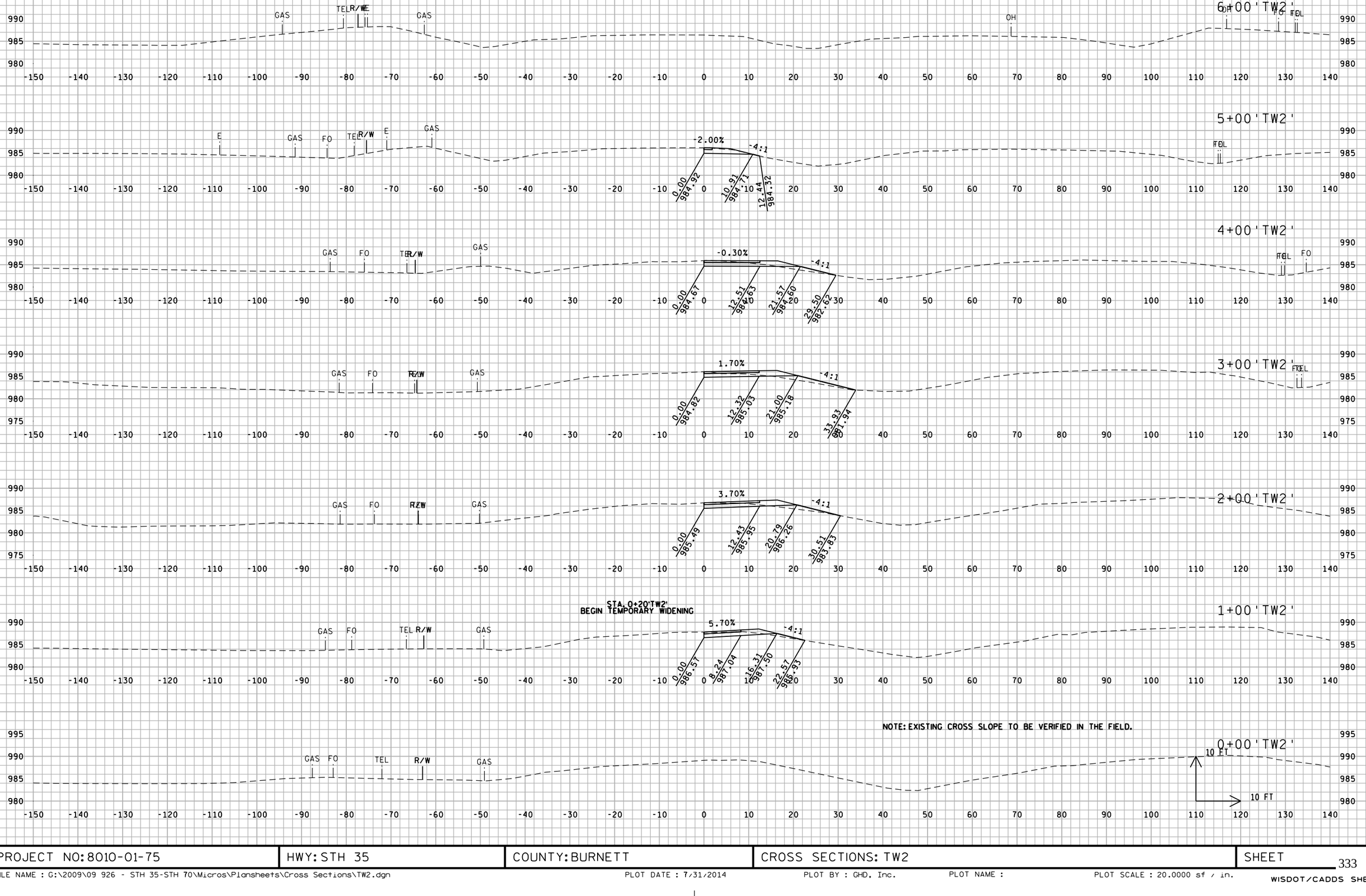


9

9

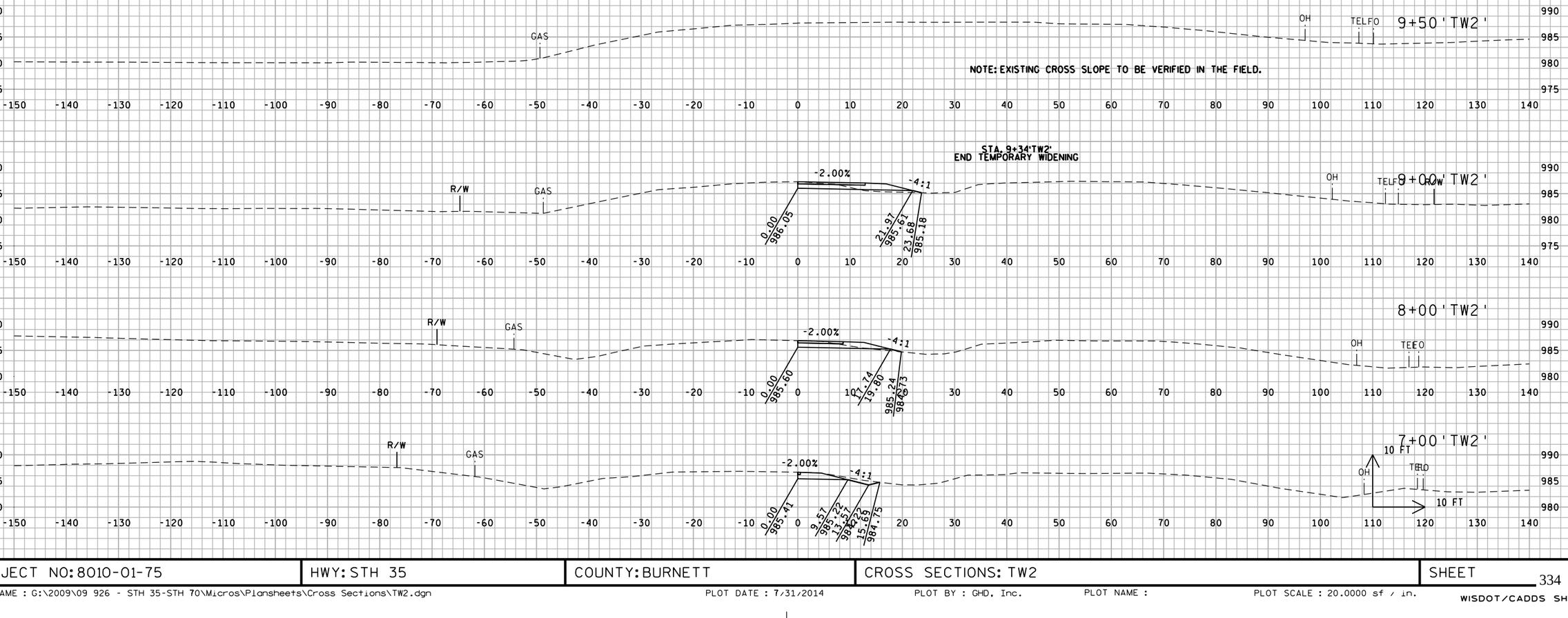
PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: TW1	SHEET 332	E

ALL WORK COMPLETED IN STAGE 1



PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: TW2	SHEET 333	E

ALL WORK COMPLETED IN STAGE 1



9

9

PROJECT NO: 8010-01-75	HWY: STH 35	COUNTY: BURNETT	CROSS SECTIONS: TW2	SHEET 334	E

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov