

EAU FEBRUARY 2023

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right-of-Way Plans
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 = 108

PROJECT ID: 7831-06-70

COUNTY: EAU CLAIRE



16

DESIGN DESIGNATION

A.A.D.T. (2023)	=	281
A.A.D.T. (2043)	=	418
D.H.V.	=	59
D.D.	=	62/38
T.	=	13.7%
DESIGN SPEED	=	40 MPH
ESALS	=	110,000

CONVENTIONAL SYMBOLS

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SCL - USH 12

(SCL TO LANGE ROAD)

CTH M

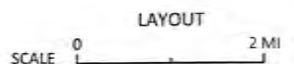
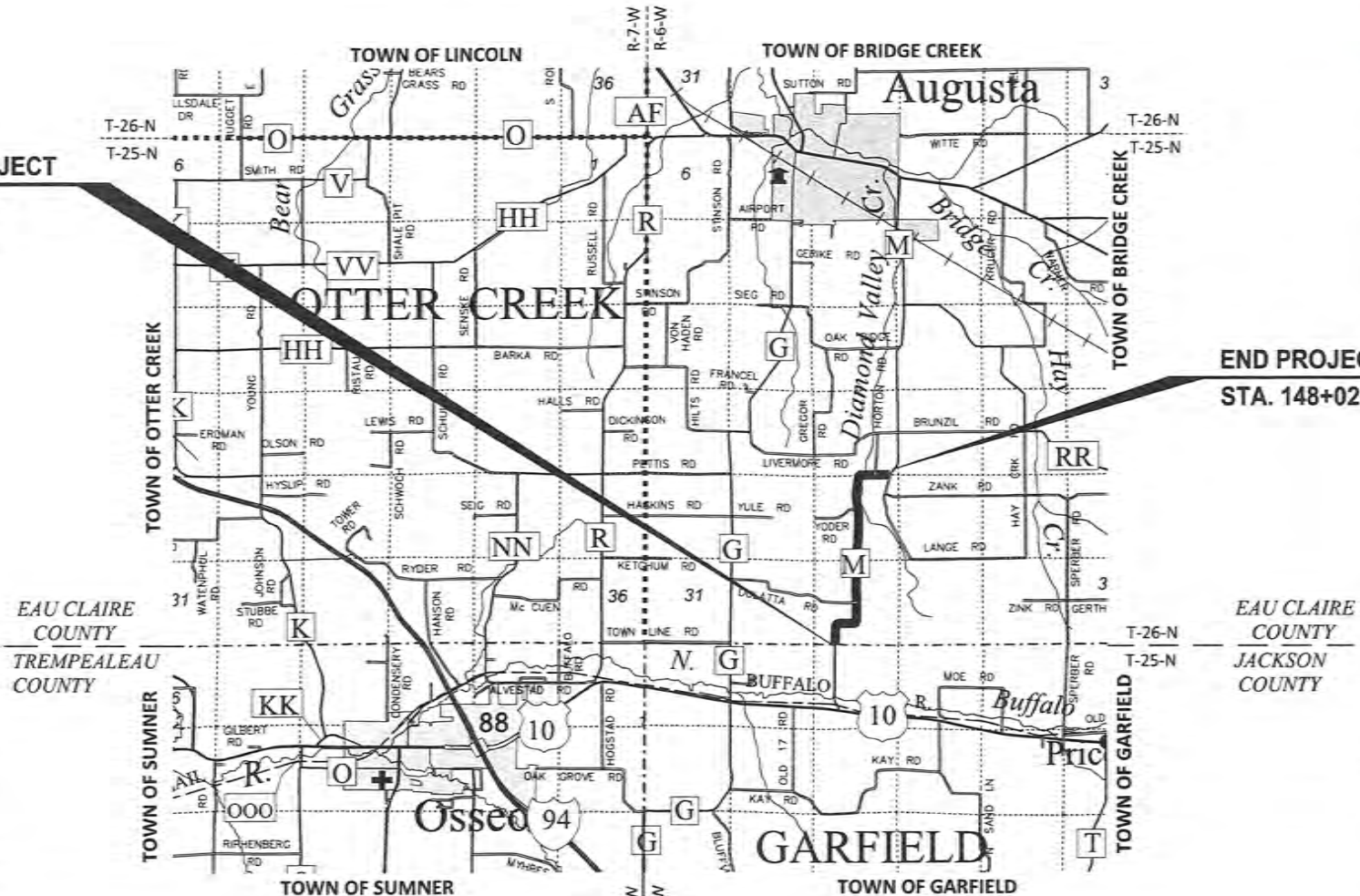
EAU CLAIRE COUNTY

STATE PROJECT NUMBER 7831-06-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7831-06-70	WISC 2023245	1

BEGIN PROJECT STA. 10+00 Y = 200,328.57 X = 438,059.18

END PROJECT STA. 148+02.51



TOTAL NET LENGTH OF CENTERLINE = 2.614 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, EAU CLAIRE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCE MAY BE USED AS GROUND DISTANCES. ELEVATION SHOWN ON THIS PLAN ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD (2012).

ACCEPTED FOR COUNTY of EAU CLAIRE

10/20/22 (Date) [Signature] (Highway Commissioner)

ORIGINAL PLANS PREPARED BY

JEWELL associates engineers, inc
Engineers - Architects - Surveyors

WISCONSIN PROFESSIONAL ENGINEER
NICHOLAS G PEHLER E-48548
PORT EDWARDS, WI
10/20/22

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor: JEWELL ASSOCIATES ENGINEERS, INC.
Designer: JEWELL ASSOCIATES ENGINEERS, INC.
Project Manager: TYLER RONGSTAD, P.E.
Regional Examiner: TAU YANG, P.E.
Regional Supervisor: TYLER RONGSTAD, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 10/26/2022 Tyler Rongstad (Signature)

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EROSION CONTROL ITEMS IN THE MISC. QUAN. ARE SUGGESTED. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. MAINTAIN EROSION CONTROL ITEMS UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. PROTECT WETLANDS AND OTHER WATERWAYS THAT ARE PRESENT WITHIN THE PROJECT LIMITS.

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 20), AND EROSION MAT URBAN CLASS I TYPE B AS DIRECTED BY THE ENGINEER.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A VERTICAL EDGE MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

HMA PAVEMENT QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

4-INCHES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH A 2.25-INCH LOWER LAYER OF HMA PAVEMENT 3 LT 58-28 S, AND A 1.75-INCH UPPER LAYER OF HMA PAVEMENT 4 LT 58-34 S.

PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES, COMMERCIAL, AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

APPLY TACK COAT AT A RATE OF 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.

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

FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%.

ADJUST DITCH GRADING AS NECESSARY TO FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

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, ALL SIGNS RELATING TO THIS OPERATION SHALL BE COVERED OR REMOVED AND FACILITY RESTORED TO NORMAL OPERATIONS.

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 COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO "DIGGERS HOTLINE" AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

IF THERE ARE CONFLICTS WITH SIGNS OR OTHER WORK UNDER THIS PROJECT, THE CONTRACTOR WILL WORK AROUND THE UTILITY FACILITIES.

CURB & GUTTER GRADES ARE GIVEN ON THE FLANGE LINE FOR CONCRETE CURB & GUTTER.

CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION:
 WISDOT PROJECT MANAGER
 718 W CLAIREMONT AVE
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DESIGN CONSULTANT:
 JEWELL ASSOCIATES ENGINEERS, INC.
 310 E. JACKSON STREET
 WISCONSIN RAPIDS, WI 54494
 ATTN: NICK PEHLER
 PH: (725) 318-8565
 CELL: (715) 459-5665
 E-MAIL: NICK.PEHLER@JEWELLASSOC.COM

EAU CLAIRE COUNTY HIGHWAY DEPARTMENT:
 EAU CLAIRE COUNTY HIGHWAY COMMISSIONER
 2000 SPOONER AVE.
 ALTOONA, WI 54720
 ATTN: JON JOHNSON
 PH: (715) 839-2952
 E-MAIL: JON.JOHNSON@CO.EAU-CLAIRE.WI.US

WDNR LIAISON:
 STATE OF WISCONSIN
 DNR WEST CENTRAL REGION HEADQUARTERS
 1300 WEST CLAIREMONT AVENUE
 EAU CLAIRE, WI 54701
 ATTN: LEAH NICOL
 PH: (715) 934-9014
 E-MAIL: LEAH.NICOL@WISCONSIN.GOV

UTILITIES

LUMEN
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 EMAIL: BRIAN.HUHN@BRIGHTSPEED.COM

EAU CLAIRE ENERGY COOPERATIVE
 ATTN: JOSH VANINGAN
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 FALL CREEK, WI 54729
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DAIRYLAND POWER COOPERATIVE
 ATTN: MIKE LYDON
 3200 EAST AVENUE
 PO BOX 817
 LA CROSSE, WI 54602-0817
 PH: (608) 787-1381
 EMAIL: MICHAEL.LYDON@DAIRYLANDPOWER.COM

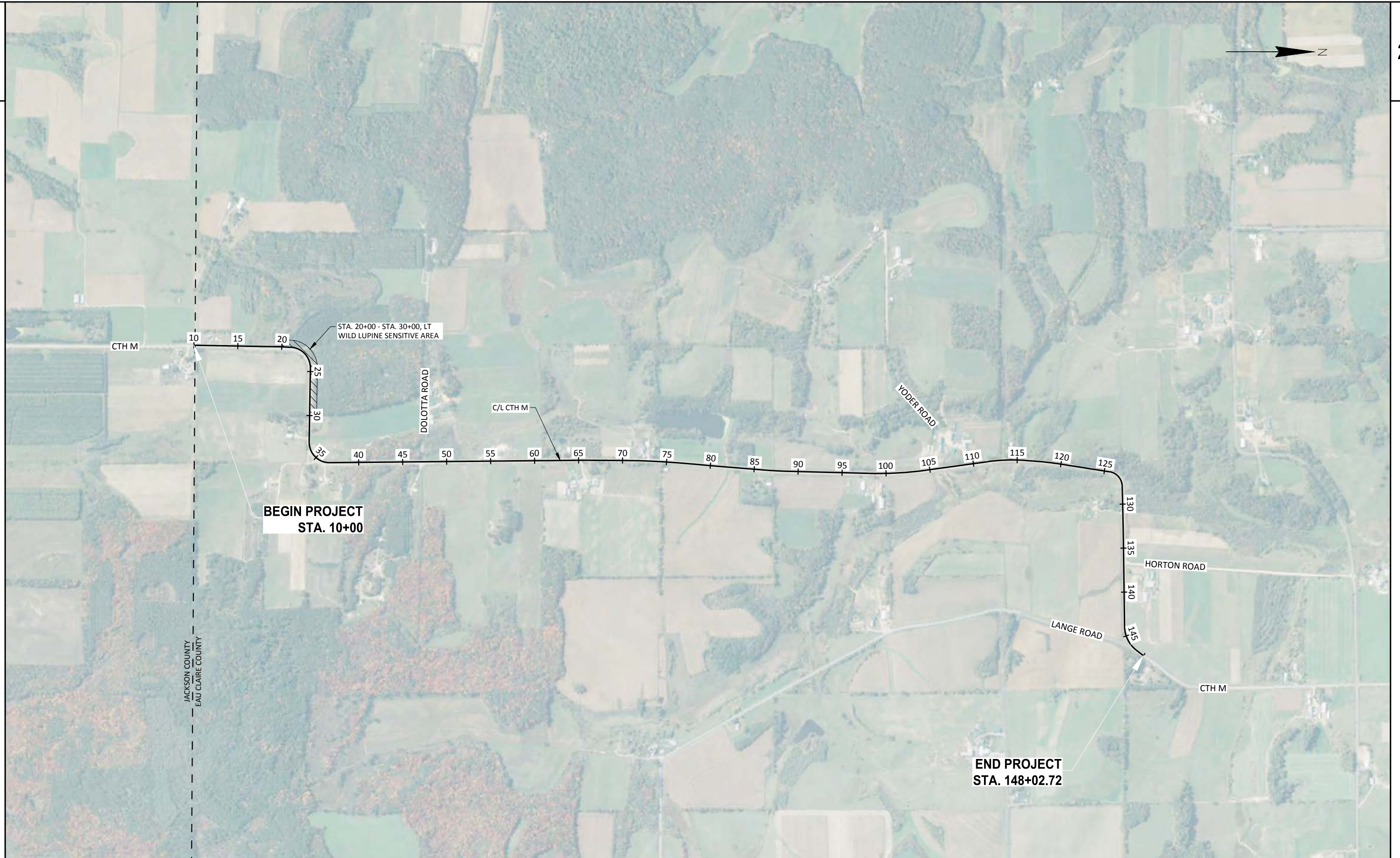
LIST OF STANDARD ABBREVIATIONS

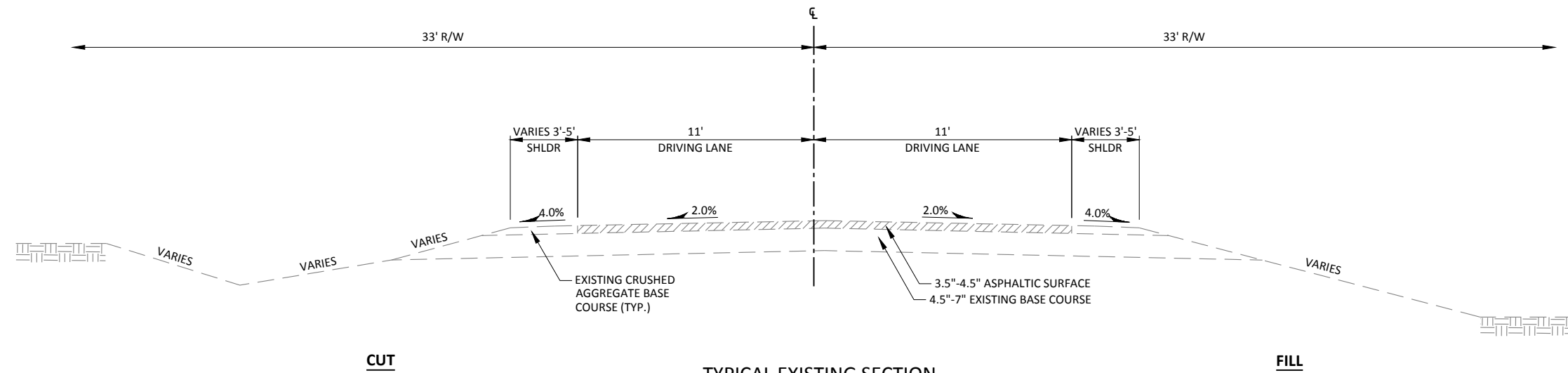
ABUT	Abutment	INV	Invert	RDWY	Roadway
AC	Acre	IP	Iron Pipe or Pin	SALV	Salvaged
AGG	Aggregate	IRS	Iron Rod Set	SAN S	Sanitary Sewer
AH	Ahead	JT	Joint	SEC	Section
<	Angle	JCT	Junction	SHLDR	Shoulder
ASPH	Asphaltic	LHF	Left-Hand Forward	SHR	Shrinkage
AVG	Average	L	Length of Curve	SW	Sidewalk
ADT	Average Daily Traffic	LIN FT	Linear Foot	S	South
BAD	Base Aggregate Dense	or LF		SQ	Square
BK	Back	LC	Long Chord of Curve	SF or SQ FT	Square Feet
BF	Back Face	MH	Manhole	SY or SQ YD	Square Yard
BM	Bench Mark	MB	Mailbox	STD	Standard
BR	Bridge	ML or M/L	Match Line	SDD	Standard Detail Drawings
C or C/L	Center Line	N	North	STH	State Trunk Highways
CC	Center to Center	Y	North Grid Coordinate	STA	Station
C.E.	Commercial Entrance	OD	Outside Diameter	SS	Storm Sewer
CTH	County Trunk Highway	PLE	Permanent Limited Easement	SG	Subgrade
CR	Creek	PT	Point	SE	Superelevation
CR	Crushed	PC	Point of Curvature	SL or S/L	Survey Line
CY or CU YD	Cubic Yard	PI	Point of Intersection	SV	Septic Vent
CP	Culvert Pipe	PRC	Point of Reverse Curvature	T	Tangent
C & G	Curb and Gutter			TEL	Telephone
D	Degree of Curve	PT	Point of Tangency	TEMP	Temporary
DHV	Design Hour Volume	POC	Point On Curve	TI	Temporary Interest
DIA	Diameter	POT	Point on Tangent	TLE	Temporary Limited Easement
E	East	PVC	Polyvinyl Chloride	t	Ton
X	East Grid Coordinate	PCC	Portland Cement Concrete	T or TN	Town
ELEC	Electric (al)	LB	Pound	TRANS	Transition
EL or ELEV	Elevation	PSI	Pounds Per Square Inch	TL or T/L	Transit Line
ESALS	Equivalent Single Axle Loads	P.E.	Private Entrance	T	Trucks (percent of)
EBS	Excavation Below Subgrade	R	Radius	TYP	Typical
FF	Face to Face	RR	Railroad	UNCL	Unclassified
F.E.	Field Entrance	R	Range	UG	Underground Cable
F	Fill	RL or R/L	Reference Line	USH	United States Highway
FG	Finished Grade	RP	Reference Point	VAR	Variable
FL or F/L	Flow Line	RCCP	Reinforced Concrete Culvert Pipe	V	Velocity or Design Speed
FT	Foot	REQD	Required	VERT	Vertical
FTG	Footing	RES	Residence or Residential	VC	Vertical Curve
GN	Grid North	RW	Retaining Wall	VOL	Volume
HT	Height	RT	Right	WM	Water Main
CWT	Hundredweight	RHF	Right-Hand Forward	WV	Water Valve
HYD	Hydrant	R/W	Right-of-Way	W	West
INL	Inlet	RD	Road	WB	Westbound
ID	Inside Diameter	R	River	YD	Yard

ORDER OF SECTION 2 SHEETS:

- GENERAL NOTES
- TYPICAL SECTIONS
- SUPERELEVATION TABLES
- CONSTRUCTION DETAILS
- PLAN DETAILS
- PAVEMENT LAYOUT
- EROSION CONTROL
- PERMANENT SIGNING & PAVEMENT MARKING
- TRAFFIC CONTROL

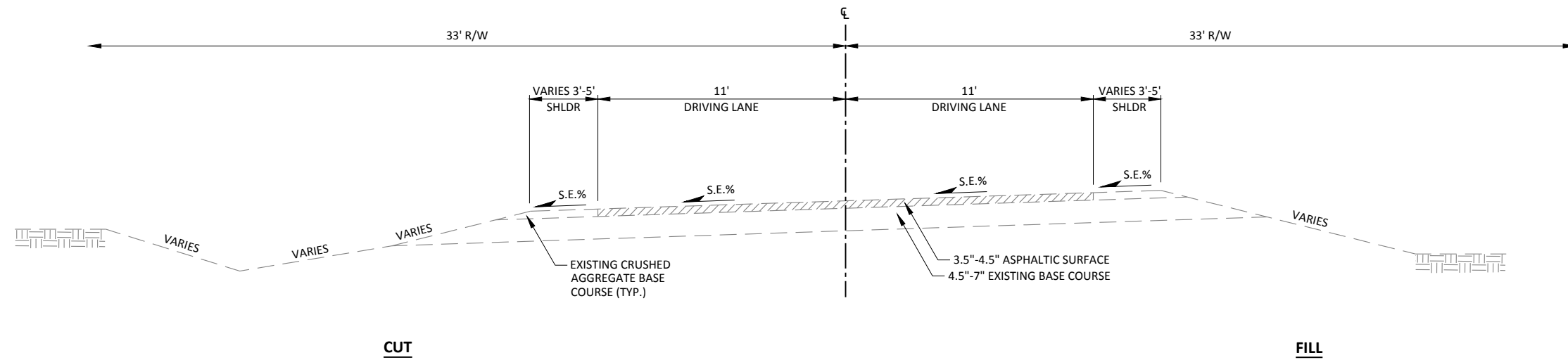






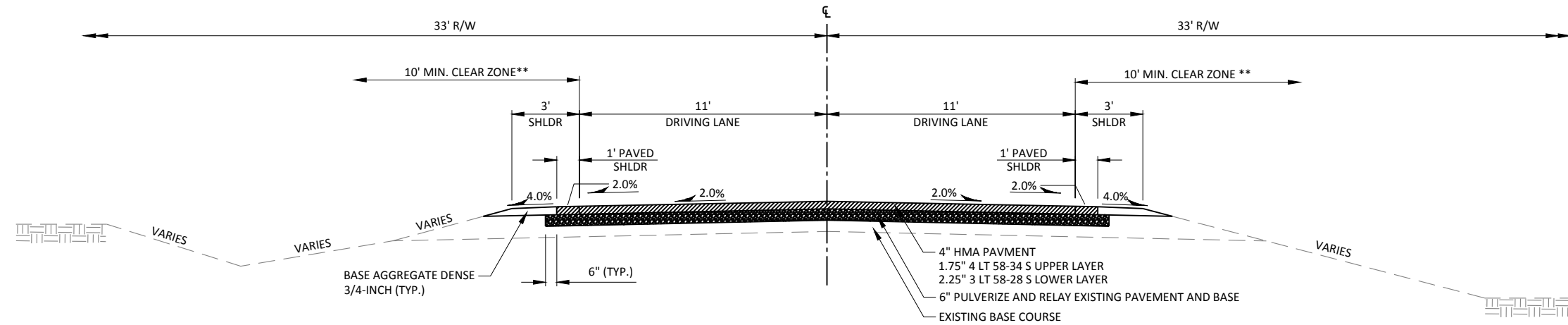
TYPICAL EXISTING SECTION

CTH M
 STA. 10+00 - STA. 20+50
 STA. 25+50 - STA. 32+50
 STA. 37+50 - STA. 111+20
 STA. 115+75 - STA. 125+00
 STA. 129+00 - STA. 143+50
 STA. 147+50 - STA. 148+02.51



TYPICAL EXISTING SUPERELEVATED SECTION

CTH M
 STA. 20+50 - STA. 25+50
 STA. 32+50 - STA. 37+50
 STA. 111+20 - STA. 115+75
 STA. 125+00 - STA. 129+00
 STA. 143+50 - STA. 147+50



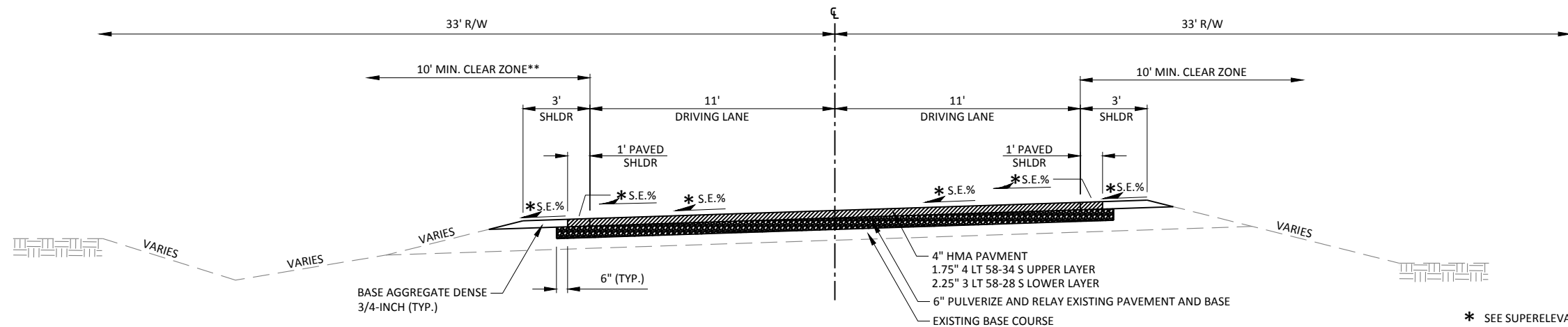
CUT

TYPICAL FINISHED SECTION

FILL

**** 5' CLEAR ZONE:**
STA. 106+15 - STA. 106+60, LT & RT

CTH M
 STA. 10+00 - STA. 19+93
 STA. 25+71 - STA. 32+05
 STA. 37+66 - STA. 69+47
 STA. 77+24 - STA. 85+31
 STA. 89+87 - STA. 97+03
 STA. 105+66 - STA. 110+27
 STA. 120+96 - STA. 124+58
 STA. 129+00 - STA. 142+76



CUT

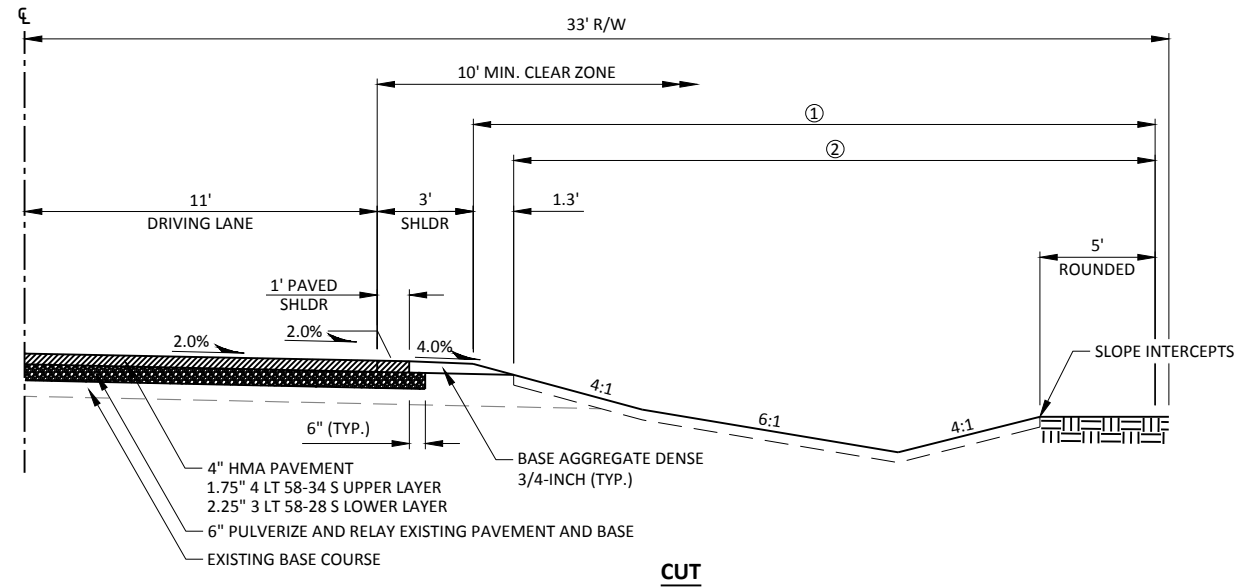
TYPICAL FINISHED SUPERELEVATED SECTION

FILL

***** SEE SUPERELEVATION TABLE.
 SUPERELEVATION CORRECTION WITH BASE
 AGGREGATE DENSE 1 1/4 INCH TO TAKE PLACE
 PRIOR TO PULVERIZE AND RELAY OF EXISTING
 ROADWAY. ENSURE EXISTING ASPHALT IS
 PULVERIZED TO FULL DEPTH. PLACEMENT AND
 GRADING OF BASE COURSE FOR
 SUPERELEVATION CORRECTION IS TO BE BE
 PAID AS BASE AGGREGATE DENSE 1 1/4 INCH.

**** 5' CLEAR ZONE:**
STA. 115+50 - STA. 116+50, LT

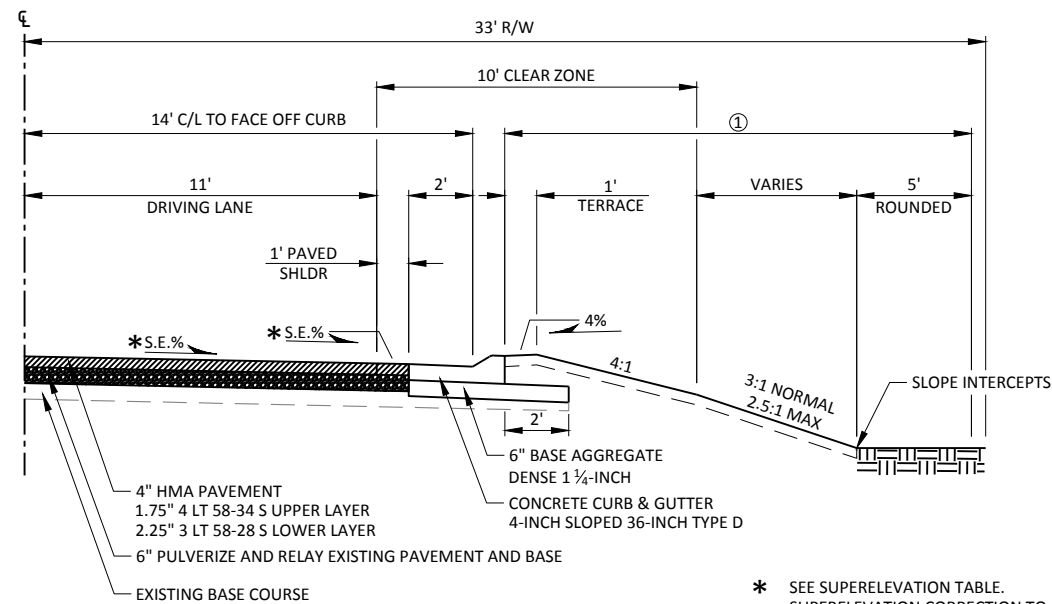
CTH M
 STA. 19+93 - STA. 25+71
 STA. 32+05 - STA. 37+66
 STA. 69+47 - STA. 77+24
 STA. 85+31 - STA. 89+87
 STA. 97+03 - STA. 105+66
 STA. 110+27 - STA. 120+96
 STA. 124+58 - STA. 129+00
 STA. 142+76 - STA. 148+02.51



TYPICAL FINISHED SECTION

CTH M
STA. 32+00 - STA. 32+58

- ① LIMITS OF FERTILIZER TYPE B, SEEDING MIXTURE NO. 20, & SEEDING TEMPORARY (AS DIRECTED BY ENGINEER)
- ② LIMITS OF SALVAGED TOPSOIL & EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR EROSION MAT LIMITS)(AS DIRECTED BY ENGINEER)



TYPICAL FINISHED SUPERELEVATED HALF SECTION

CTH M
STA. 21+32 - STA. 24+32, RT.
STA. 33+32 - STA. 36+39, LT.
STA. 125+90 - STA. 127+67, RT.

- * SEE SUPERELEVATION TABLE. SUPERELEVATION CORRECTION TO TAKE PLACE PRIOR TO PULVERIZE AND RELAY OF EXISTING BASE MATERIAL.
- ① LIMITS OF FERTILIZER TYPE B, SEEDING TEMPORARY, SEEDING MIXTURE NO. 20, SALVAGED TOPSOIL & EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR EROSION MAT LIMITS)(AS DIRECTED BY ENGINEER)

SUPERELEVATION TABLE-CURVE 1

STATION	LEFT(%)	RIGHT(%)
19+93	2.0	2.0
20+00	1.6	2.0
20+29	0.0	2.0
20+50	1.1	2.0
20+66	2.0	2.0
21+00	3.9	3.9
21+38	6.0	6.0
FULL SUPERELEVATION		
24+26	6.0	6.0
24+50	4.7	4.7
24+99	2.0	2.0
25+00	1.9	2.0
25+35	0.0	2.0
25+50	0.8	2.0
25+71	2.0	2.0

SUPERELEVATION TABLE-CURVE 2

STATION	LEFT(%)	RIGHT(%)
32+05	2.0	2.0
32+39	2.0	0.0
32+50	2.0	0.6
32+73	2.0	2.0
33+00	3.6	3.6
33+33	5.5	5.5
FULL SUPERELEVATION		
36+38	5.5	5.5
36+50	4.8	4.8
36+97	2.0	2.0
37+00	2.0	1.9
37+32	2.0	0.0
37+50	2.0	1.1
37+66	2.0	2.0

SUPERELEVATION TABLE-CURVE 3

STATION	LEFT(%)	RIGHT(%)
69+47	2.0	2.0
69+50	1.8	2.0
69+98	0.0	2.0
70+00	0.1	2.0
70+49	2.0	2.0
FULL SUPERELEVATION		
76+22	2.0	2.0
76+50	0.9	2.0
76+72	0.0	2.0
77+00	1.1	2.0
77+24	2.0	2.0

SUPERELEVATION TABLE-CURVE 4

STATION	LEFT(%)	RIGHT(%)
85+31	2.0	2.0
85+50	2.0	1.3
85+82	2.0	0.0
86+00	2.0	0.7
86+33	2.0	2.0
86+50	2.7	2.7
86+53	2.8	2.8
FULL SUPERELEVATION		
88+65	2.8	2.8
88+85	2.0	2.0
89+00	2.0	1.4
89+36	2.0	0.0
89+50	2.0	0.6
89+87	2.0	2.0

SUPERELEVATION TABLE-CURVE 5

STATION	LEFT(%)	RIGHT(%)
97+03	2.0	2.0
97+50	2.0	0.1
97+54	2.0	0.0
98+00	2.0	1.8
98+04	2.0	2.0
98+32	3.1	3.1
FULL SUPERELEVATION		
104+36	3.1	3.1
104+50	2.6	2.6
104+64	2.0	2.0
105+00	2.0	0.6
105+15	2.0	0.0
105+50	2.0	1.4
105+66	2.0	2.0

SUPERELEVATION TABLE-CURVE 6

STATION	LEFT(%)	RIGHT(%)
110+27	2.0	2.0
110+50	0.1	2.0
110+78	0.0	2.0
111+00	0.1	2.0
111+29	2.0	2.0
111+50	2.8	3.7
112+01	4.8	4.8
FULL SUPERELEVATION		
115+49	4.8	4.8
116+00	4.5	4.5
116+50	4.1	4.1
117+00	3.8	3.8

SUPERELEVATION TABLE-CURVE 7

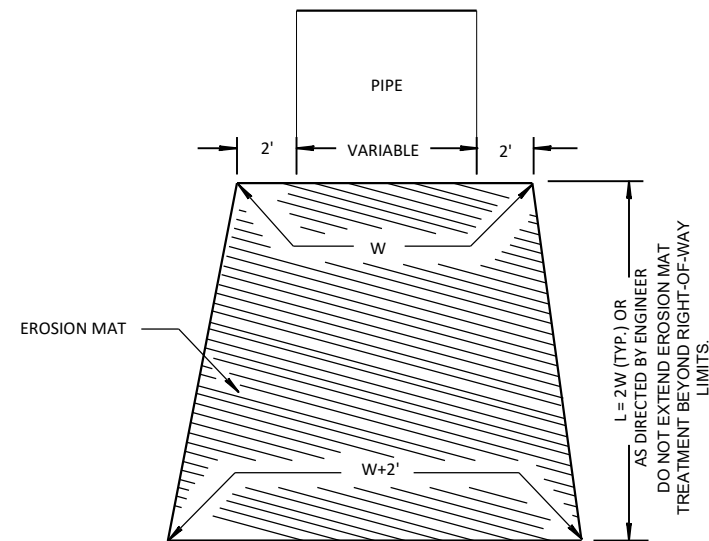
STATION	LEFT(%)	RIGHT(%)
MATCH TRANSITION FROM CURVE 6		
117+21	3.6	3.6
FULL SUPERELEVATION		
119+53	3.6	3.6
119+94	2.0	2.0
120+00	1.8	2.0
120+45	0.0	2.0
120+50	0.2	2.0
120+96	2.0	2.0

SUPERELEVATION TABLE-CURVE 8

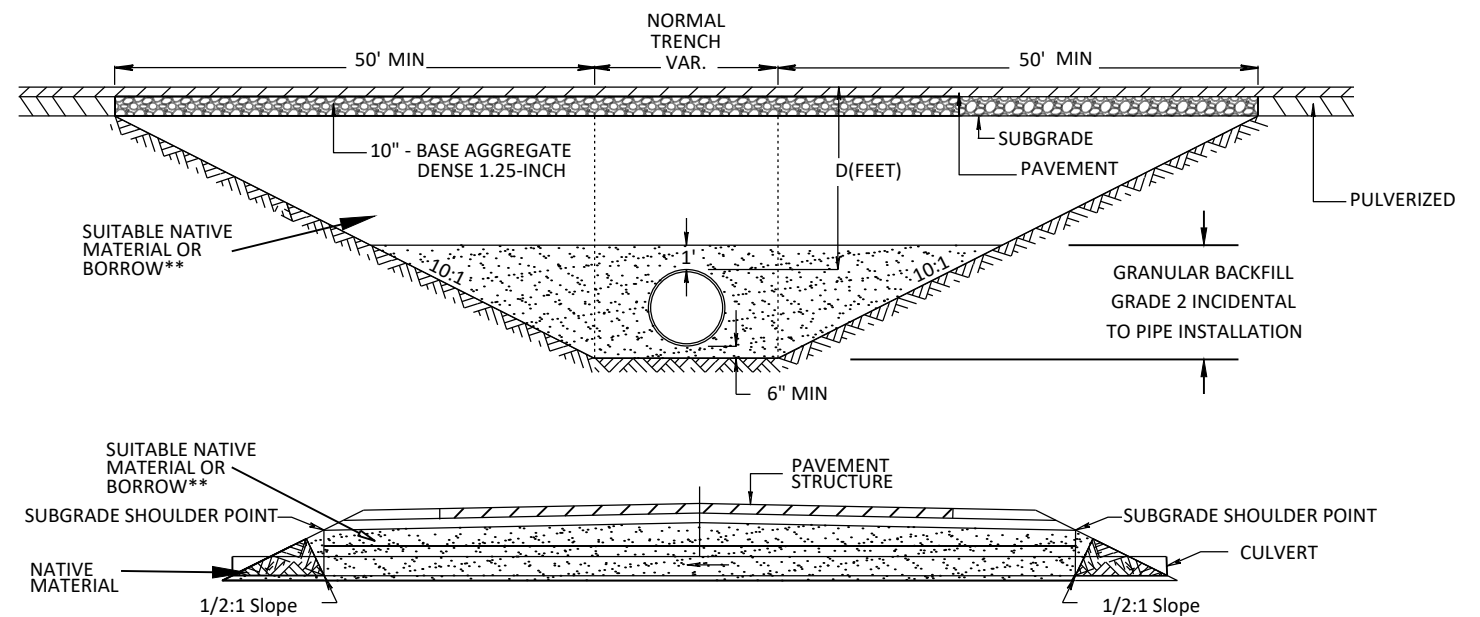
STATION	LEFT(%)	RIGHT(%)
124+58	2.0	2.0
124+92	0.0	2.0
125+00	0.5	2.0
125+26	2.0	2.0
125+50	3.4	3.4
125+95	6.0	6.0
FULL SUPERELEVATION		
127+63	6.0	6.0
128+00	3.8	3.8
128+32	2.0	2.0
128+50	0.9	2.0
128+66	0.0	2.0
129+00	2.0	2.0

SUPERELEVATION TABLE-CURVE 9

STATION	LEFT(%)	RIGHT(%)
142+76	2.0	2.0
143+00	2.0	0.8
143+15	2.0	0.0
143+50	2.0	1.8
143+54	2.0	2.0
144+00	4.4	4.4
144+31	6.0	6.0
FULL SUPERELEVATION		
146+63	6.0	6.0
147+00	4.1	4.1
147+40	2.0	2.0
147+50	2.0	1.5
147+79	2.0	0.0
148+00	2.0	1.1
148+18	2.0	2.0

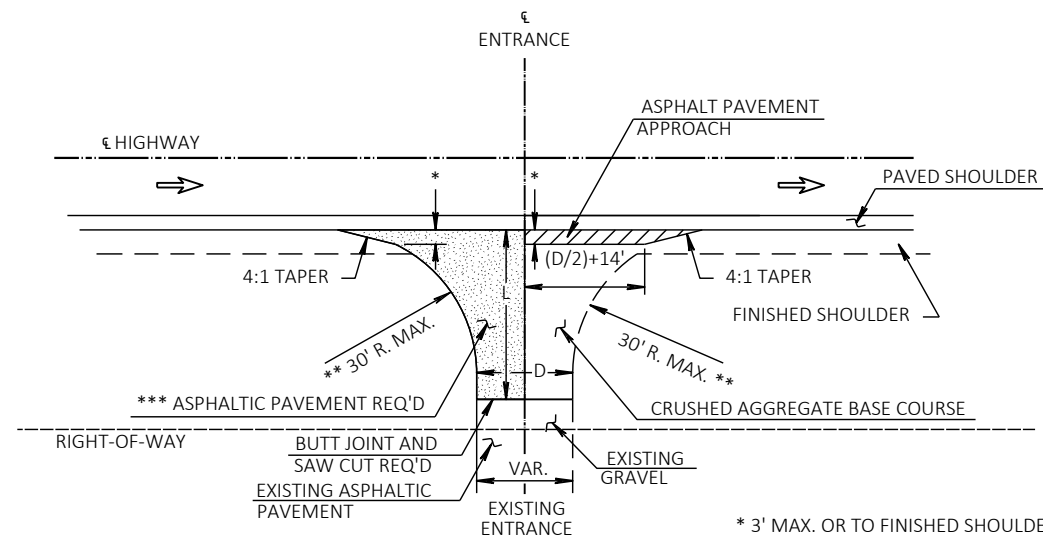
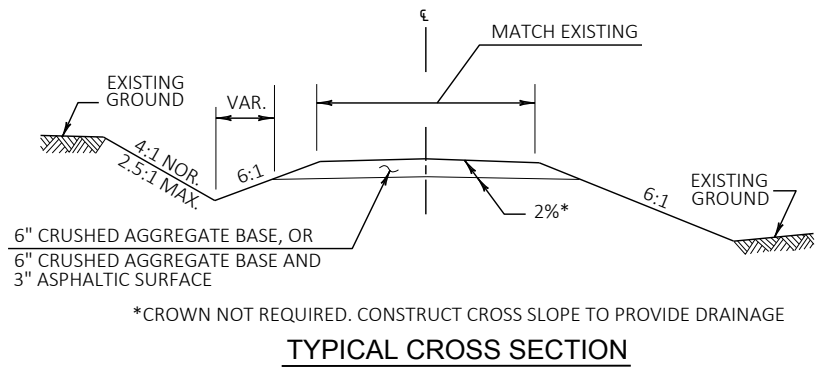


EROSION MAT TREATMENT AT CULVERTS



CROSS DRAIN INSTALLATION DETAIL FOR D ≤ 5'

**NOTE: NATIVE MATERIAL MUST BE APPROVED BY THE PROJECT ENGINEER PRIOR TO BACKFILLING. IF NATIVE MATERIAL IS DEEMED UNFIT, BACKFILL ENTIRE EXCAVATION WITH BORROW APPROVED BY THE PROJECT ENGINEER.



L=VARIABLE, EXACT LENGTH TO BE DETERMINED IN THE FIELD BY THE ENGINEER. BLEND BACK ON THE ENTRANCE FAR ENOUGH TO GET A SMOOTH PROFILE.

D=DRIVEWAY WIDTH
D=MATCH EXISTING

* 3' MAX. OR TO FINISHED SHOULDER WHICH EVER IS LESS.

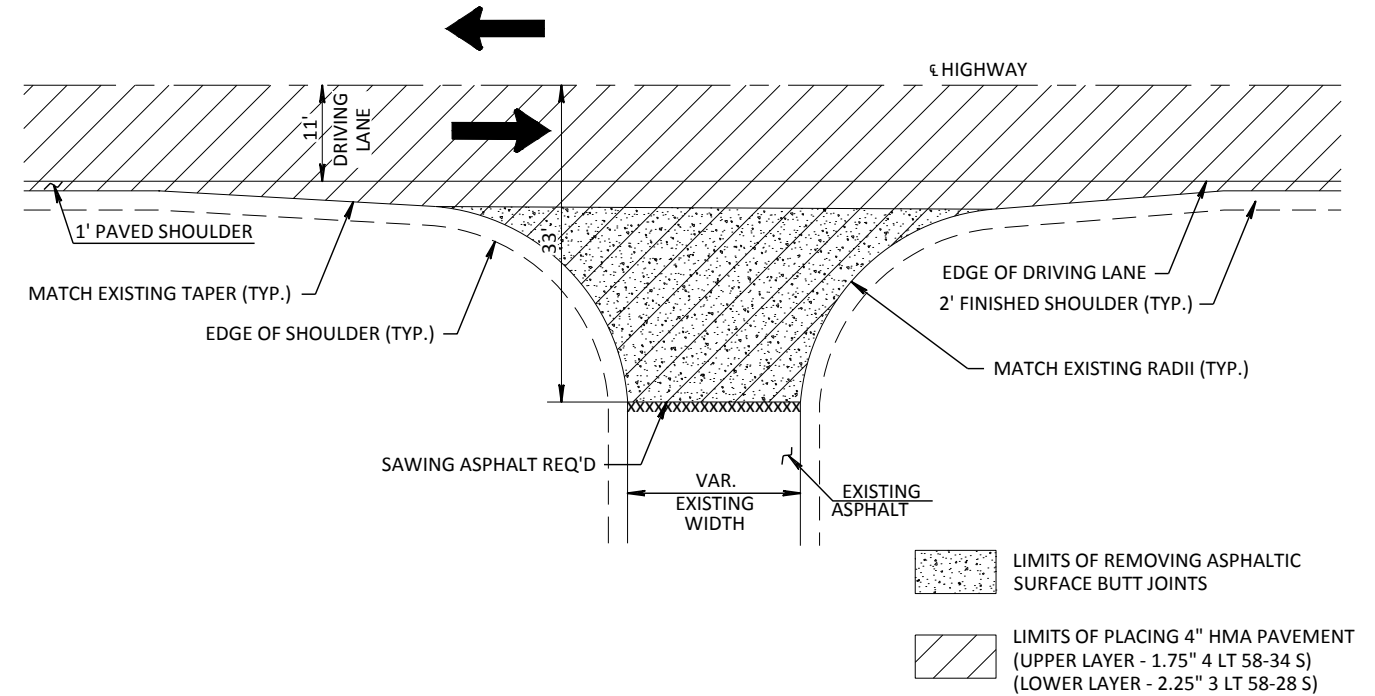
** RADIUS IS TANGENT AT PAVED SHOULDER EDGE OR 5' MAX. OFF EDGE OF MAIN LINE PAVEMENT WHICH EVER IS LESS.

*** REMOVE EXISTING ASPHALTIC SURFACE. ADD CRUSHED AGGREGATE BASE COURSE BEFORE REPAVING.

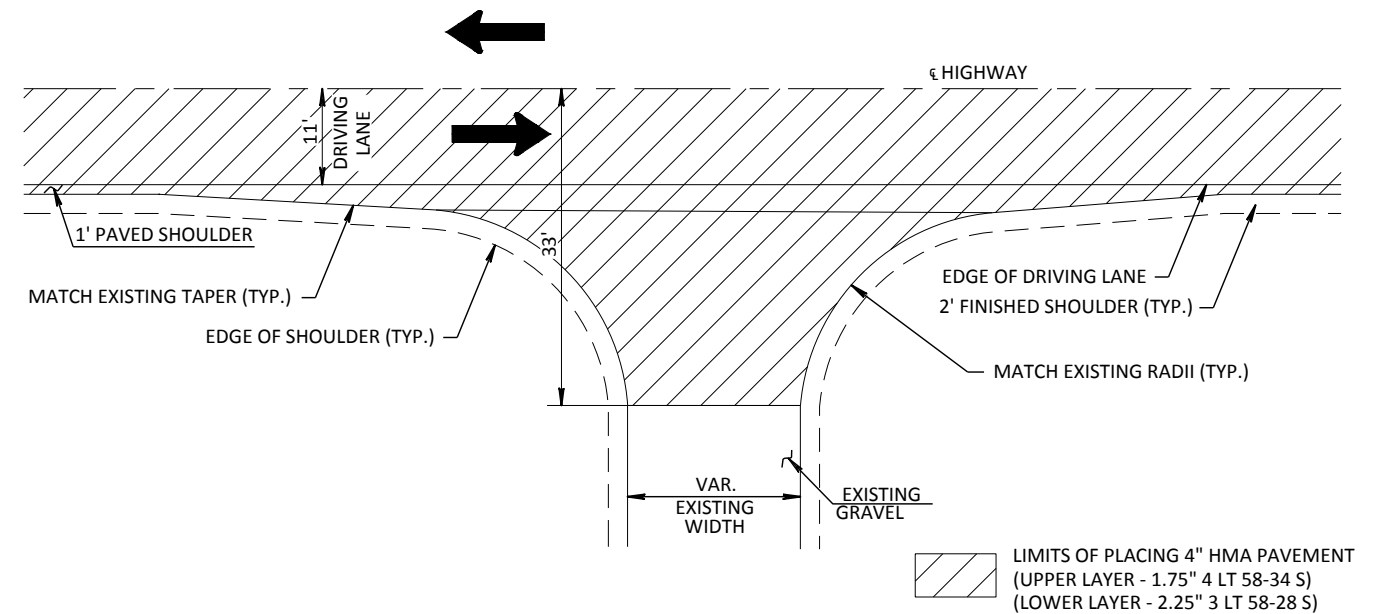
PLAN VIEW

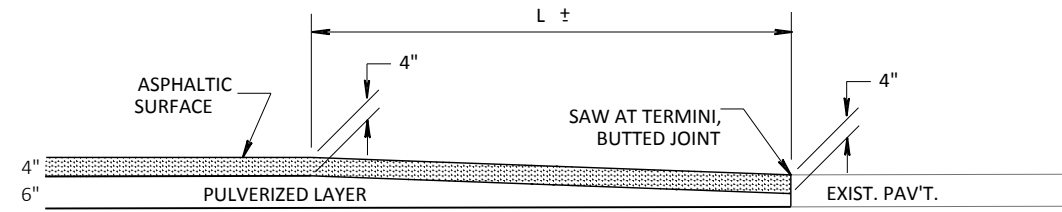
RURAL DRIVEWAY INTERSECTION DETAIL
(PE's & FE's)

**RURAL PAVED SIDEROAD INTERSECTION PAVING DETAIL
(DOLOTTA RD & LANGE RD)**



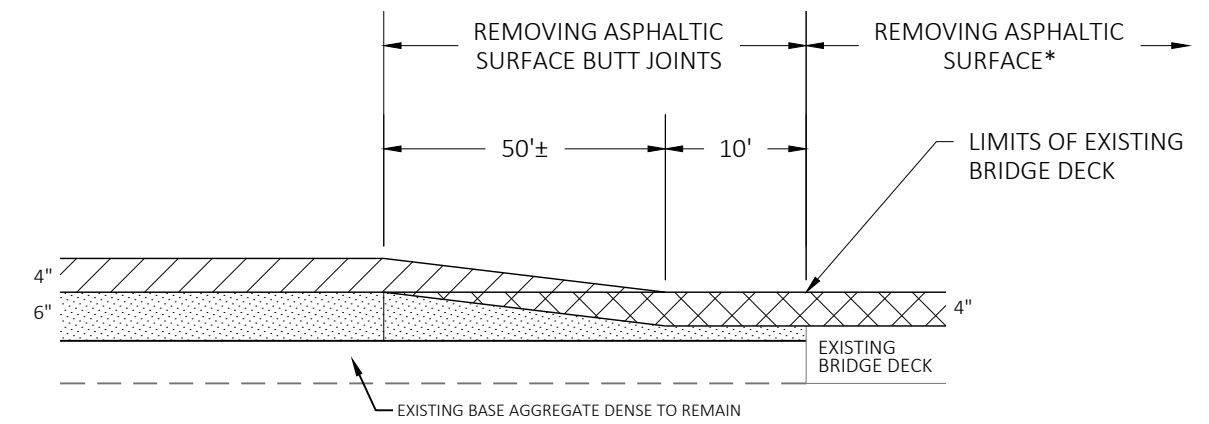
**RURAL UNPAVED SIDEROAD INTERSECTION PAVING DETAIL
(YODER RD & HORTON RD)**








REMOVING ASPHALTIC SURFACE BUTT JOINT

STA. 10+00	L = 50 ±
DOLOTTA RD	L = 20 ±
LANGE RD	L = 20 ±
STA. 148+02.51	L = 50 ±

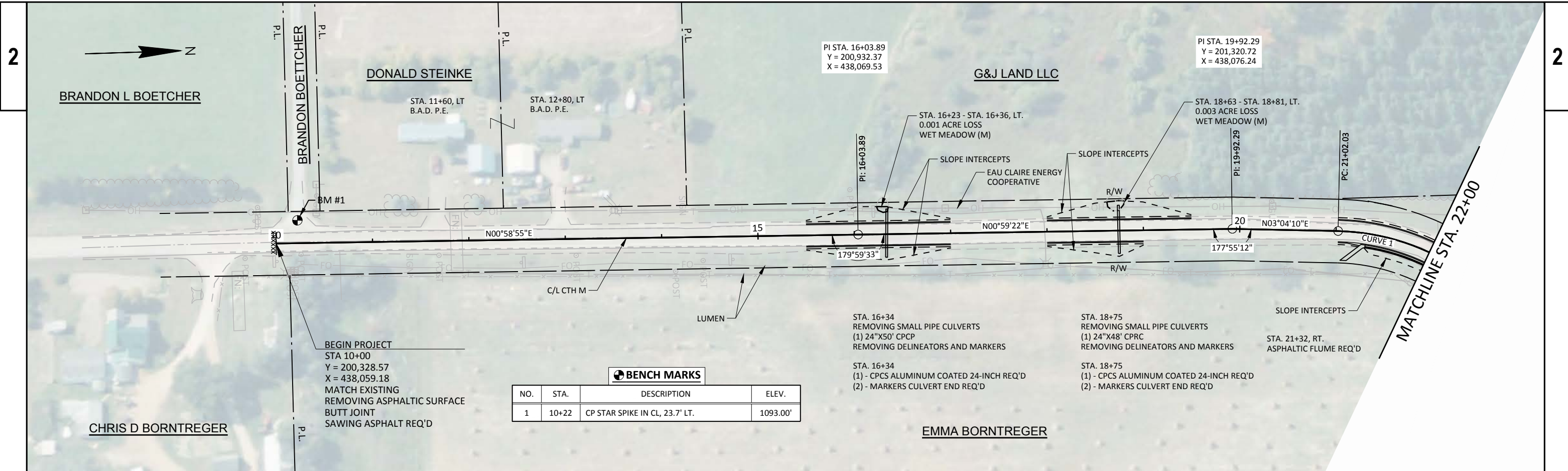


-  HMA PAVEMENT
-  EXISTING ASPHALT AND BASE AGGREGATE DENSE TO BE REMOVED
-  PULVERIZE AND RELAY

*REMOVE ADDITIONAL OVERBURDEN ON BRIDGE DECK. CLEAN DECK SURFACE, APPLY TACK COAT, AND PAVE HMA PAVEMENT. OVERBURDEN REMOVAL INCIDENTAL TO REMOVE ASPHALTIC SURFACE.

**BRIDGE APPROACH
PROFILE VIEW**

STA. 127+90 - STA. 129+20



BEGIN PROJECT
 STA 10+00
 Y = 200,328.57
 X = 438,059.18
 MATCH EXISTING
 REMOVING ASPHALTIC SURFACE
 BUTT JOINT
 SAWING ASPHALT REQ'D

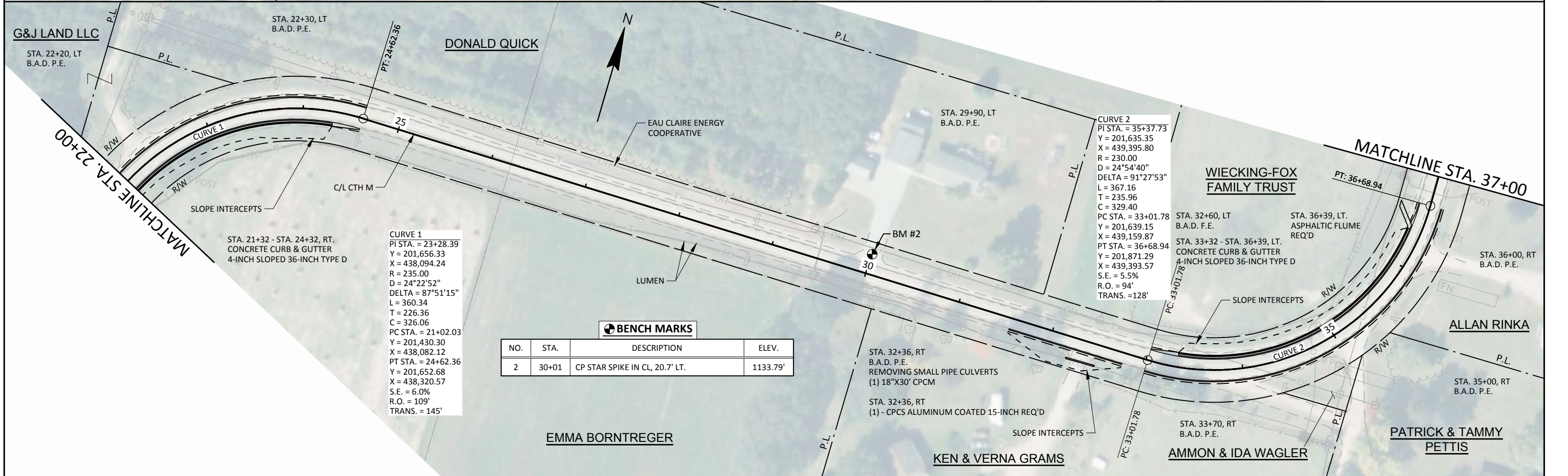
NO.	STA.	DESCRIPTION	ELEV.
1	10+22	CP STAR SPIKE IN CL, 23.7' LT.	1093.00'

- STA. 16+34**
 REMOVING SMALL PIPE CULVERTS
 (1) 24"X50' CPCP
 REMOVING DELINEATORS AND MARKERS
- STA. 16+34**
 (1) - CPCS ALUMINUM COATED 24-INCH REQ'D
 (2) - MARKERS CULVERT END REQ'D
- STA. 18+75**
 REMOVING SMALL PIPE CULVERTS
 (1) 24"X48' CPRC
 REMOVING DELINEATORS AND MARKERS
- STA. 18+75**
 (1) - CPCS ALUMINUM COATED 24-INCH REQ'D
 (2) - MARKERS CULVERT END REQ'D
- STA. 21+32, RT.**
 ASPHALTIC FLUME REQ'D

NO.	STA.	DESCRIPTION	ELEV.
2	30+01	CP STAR SPIKE IN CL, 20.7' LT.	1133.79'

CURVE 1
 PI STA. = 23+28.39
 Y = 201,656.33
 X = 438,094.24
 R = 235.00
 D = 24°22'52"
 DELTA = 87°51'15"
 L = 360.34
 T = 226.36
 C = 326.06
 PC STA. = 21+02.03
 Y = 201,430.30
 X = 438,082.12
 PT STA. = 24+62.36
 Y = 201,652.68
 X = 438,320.57
 S.E. = 6.0%
 R.O. = 109'
 TRANS. = 145'

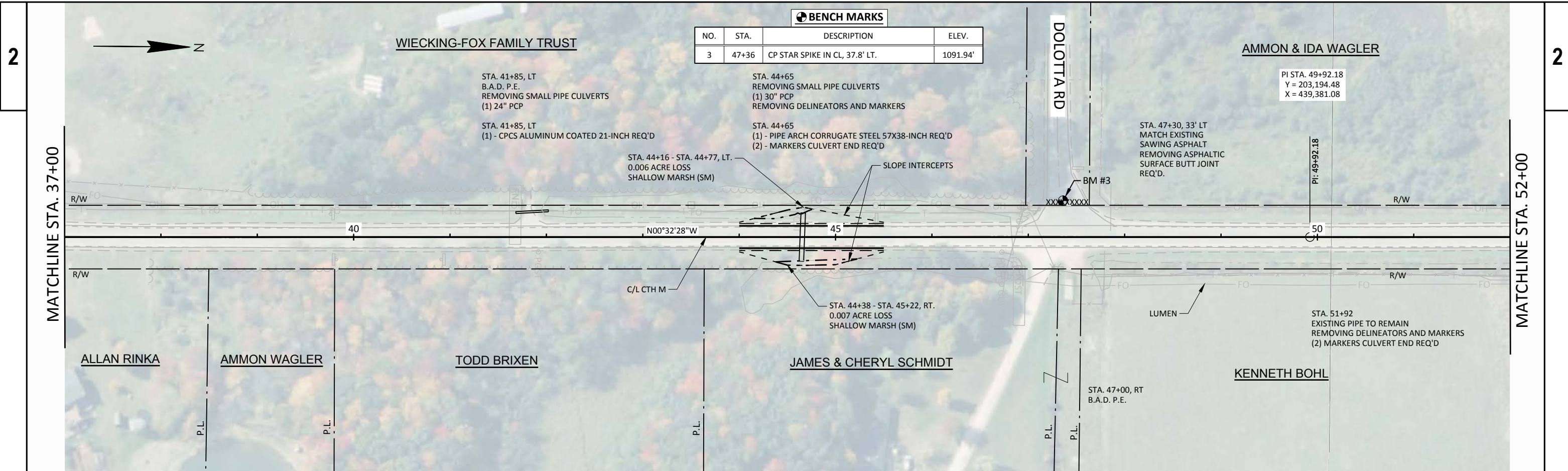
CURVE 2
 PI STA. = 35+37.73
 Y = 201,635.35
 X = 439,395.80
 R = 230.00
 D = 24°54'40"
 DELTA = 91°27'53"
 L = 367.16
 T = 235.96
 C = 329.40
 PC STA. = 33+01.78
 Y = 201,639.15
 X = 439,159.87
 PT STA. = 36+68.94
 Y = 201,871.29
 X = 439,393.57
 S.E. = 5.5%
 R.O. = 94'
 TRANS. = 128'

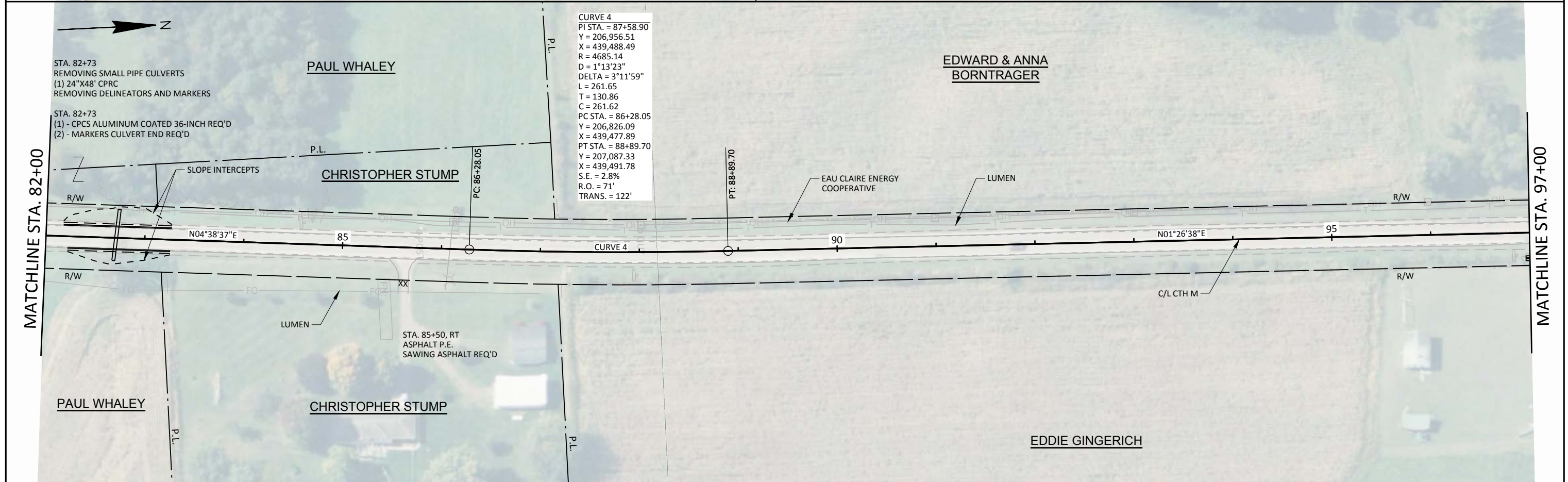
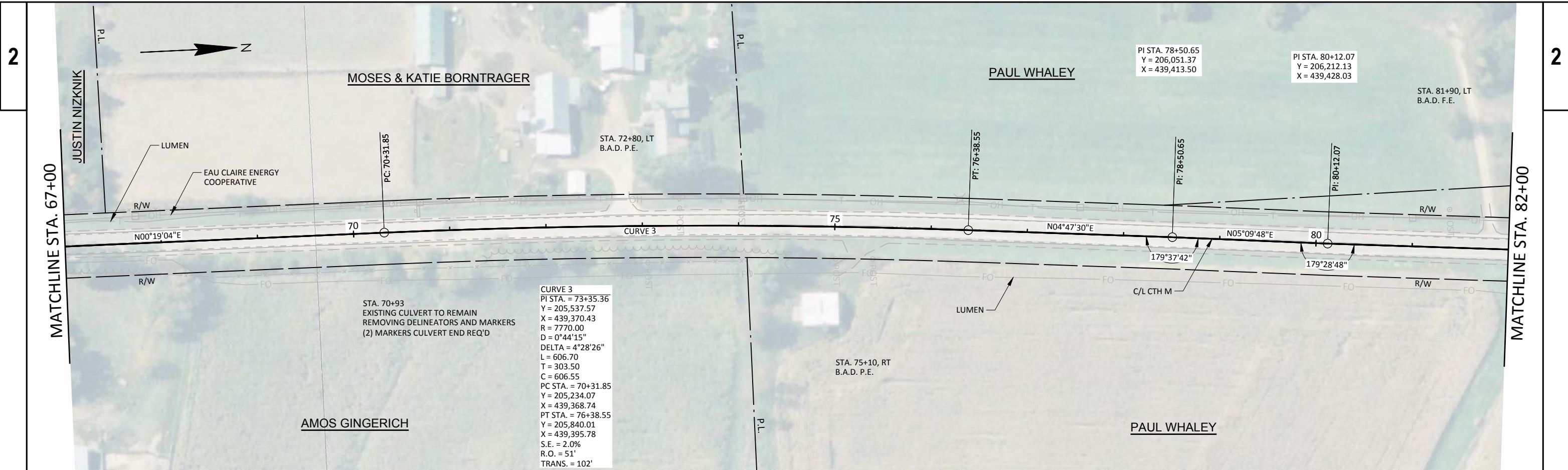


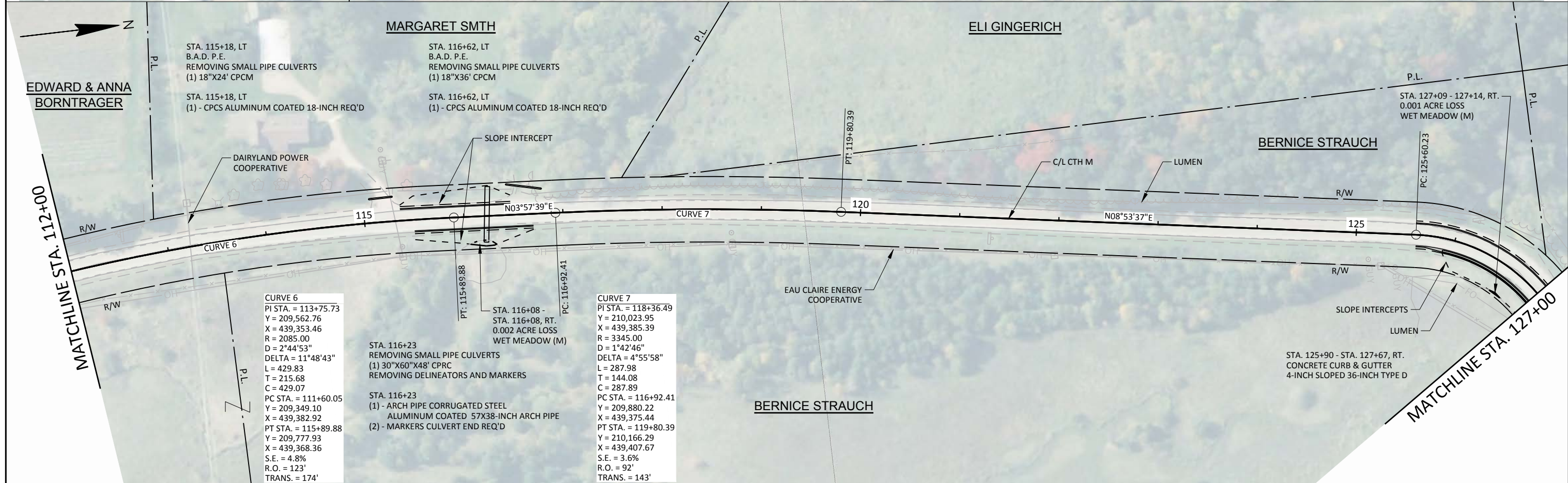
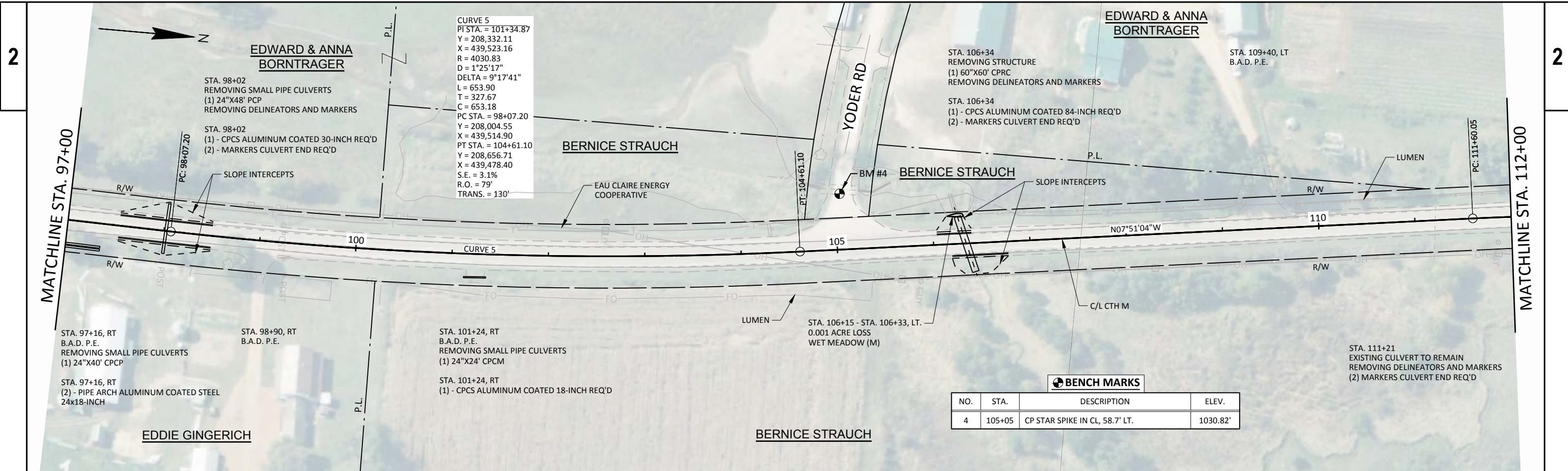
STA. 21+32 - STA. 24+32, RT.
 CONCRETE CURB & GUTTER
 4-INCH SLOPED 36-INCH TYPE D

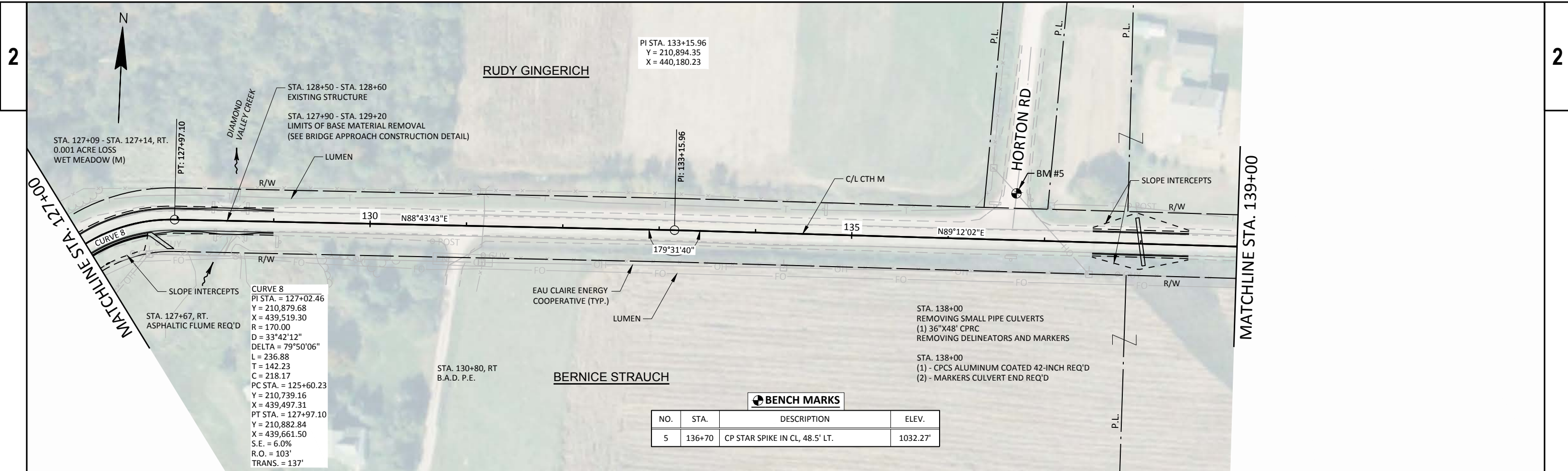
STA. 33+32 - STA. 36+39, LT.
 CONCRETE CURB & GUTTER
 4-INCH SLOPED 36-INCH TYPE D

- STA. 32+36, RT**
 B.A.D. P.E.
 REMOVING SMALL PIPE CULVERTS
 (1) 18"X30' CPCP
- STA. 32+36, RT**
 (1) - CPCS ALUMINUM COATED 15-INCH REQ'D



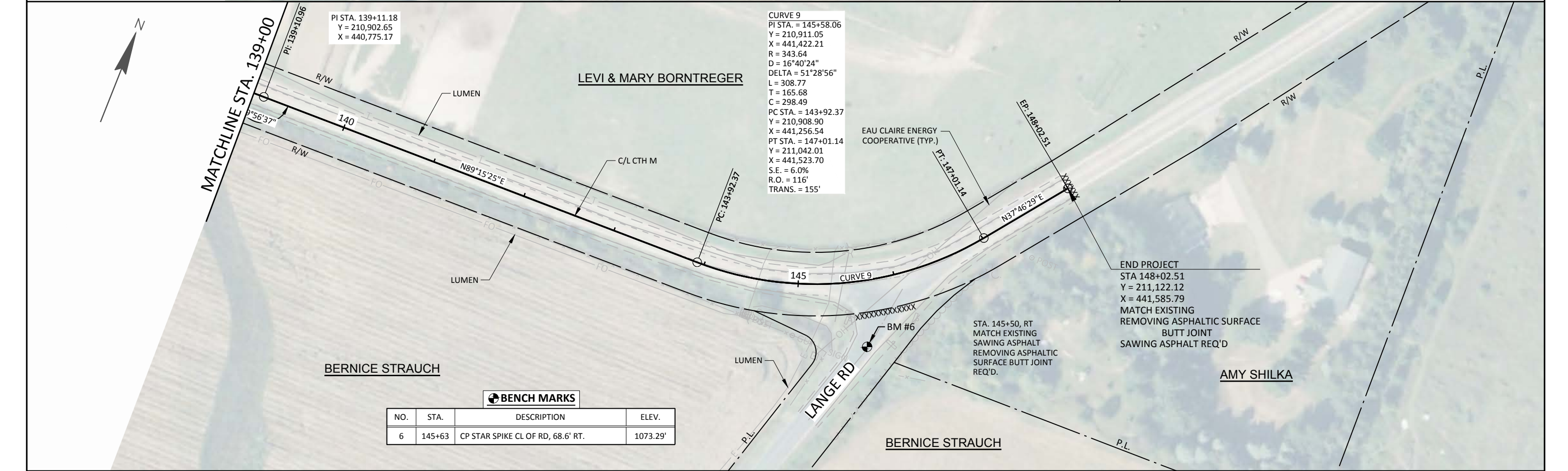






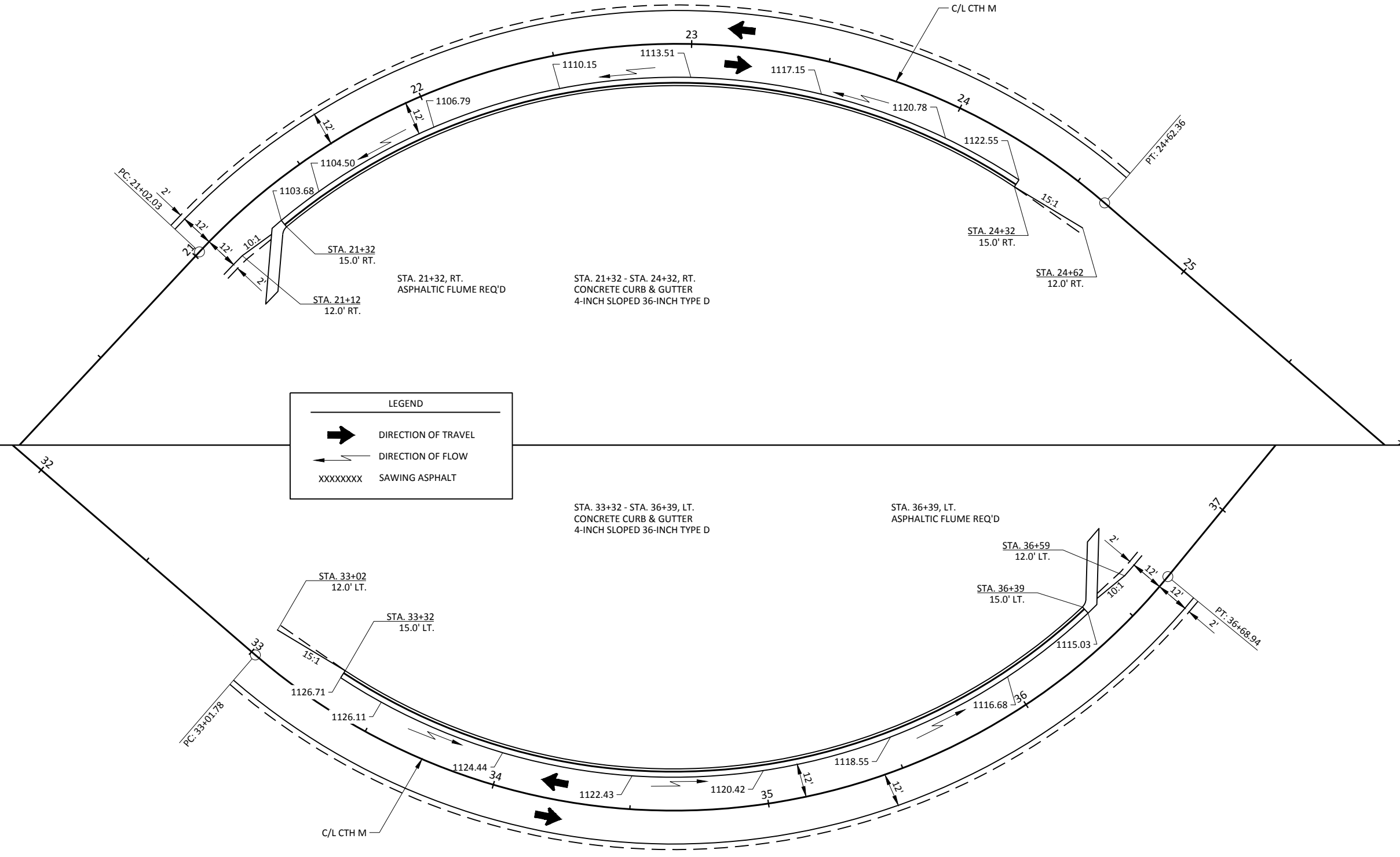
BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
5	136+70	CP STAR SPIKE IN CL, 48.5' LT.	1032.27'



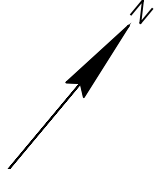
BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
6	145+63	CP STAR SPIKE CL OF RD, 68.6' RT.	1073.29'



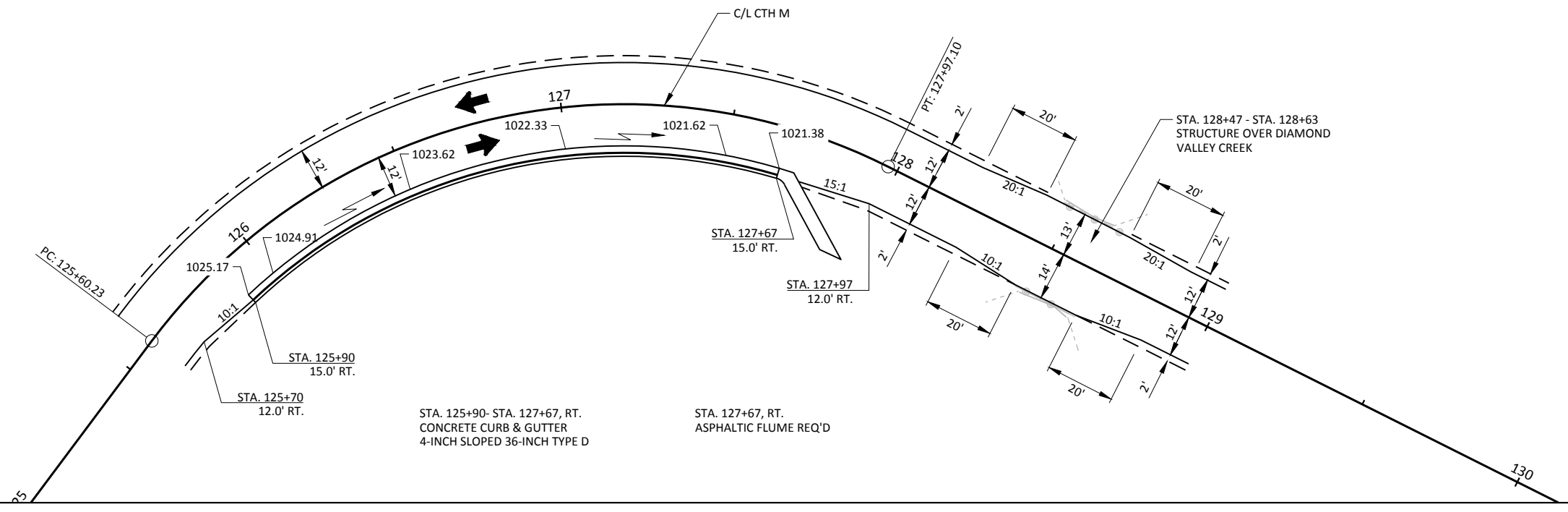
LEGEND

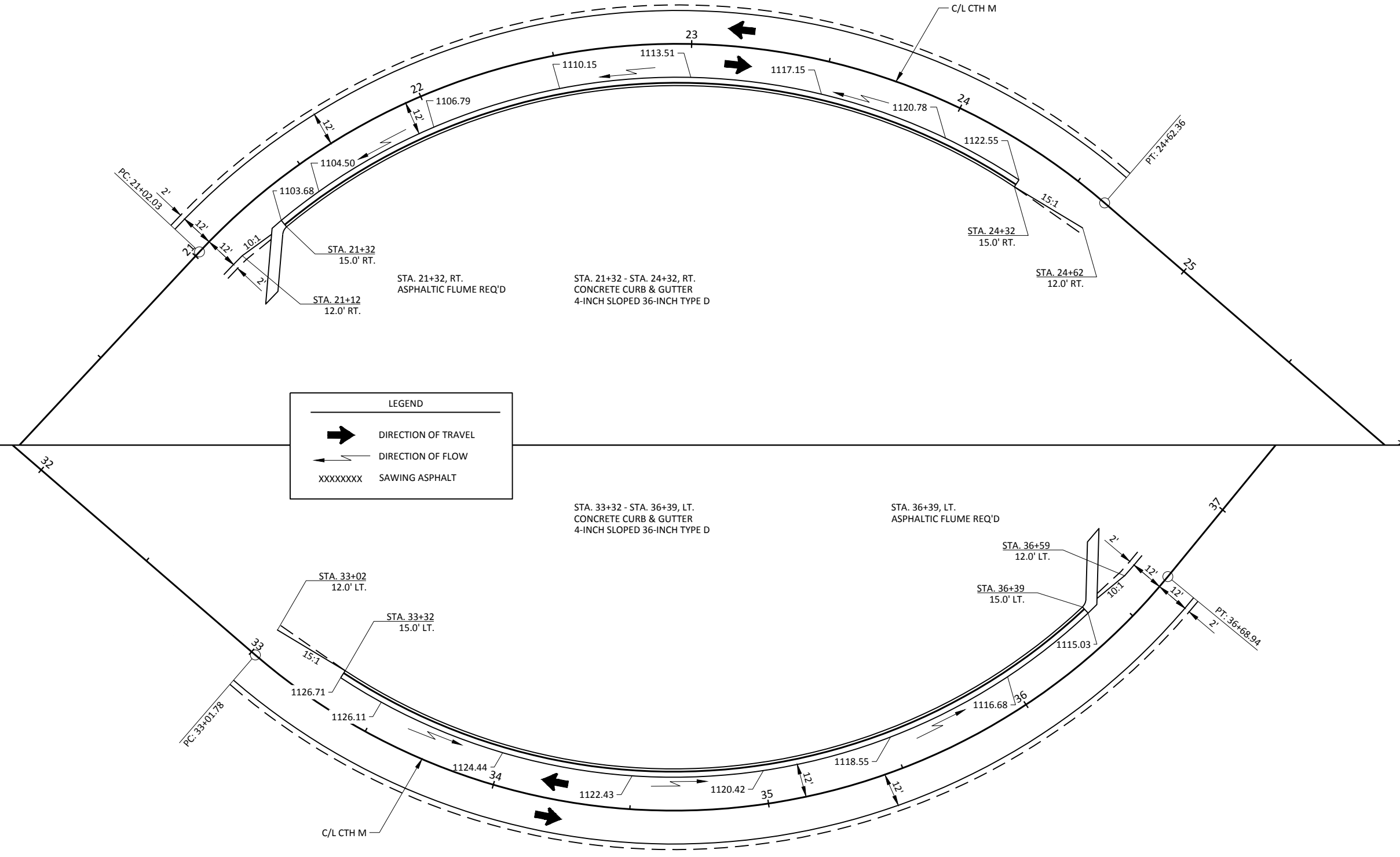
- DIRECTION OF TRAVEL
- DIRECTION OF FLOW
- SAWING ASPHALT



LEGEND

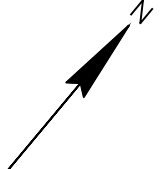
- DIRECTION OF TRAVEL
- DIRECTION OF FLOW
- XXXXXXX SAWING ASPHALT





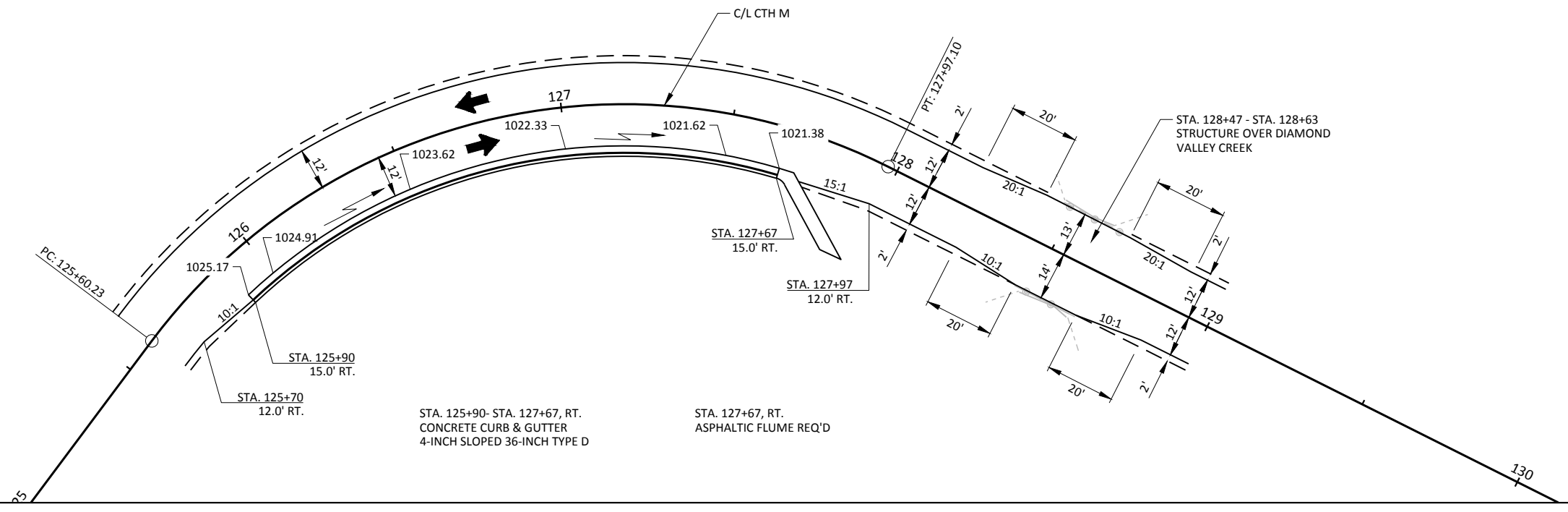
LEGEND

- DIRECTION OF TRAVEL
- DIRECTION OF FLOW
- SAWING ASPHALT



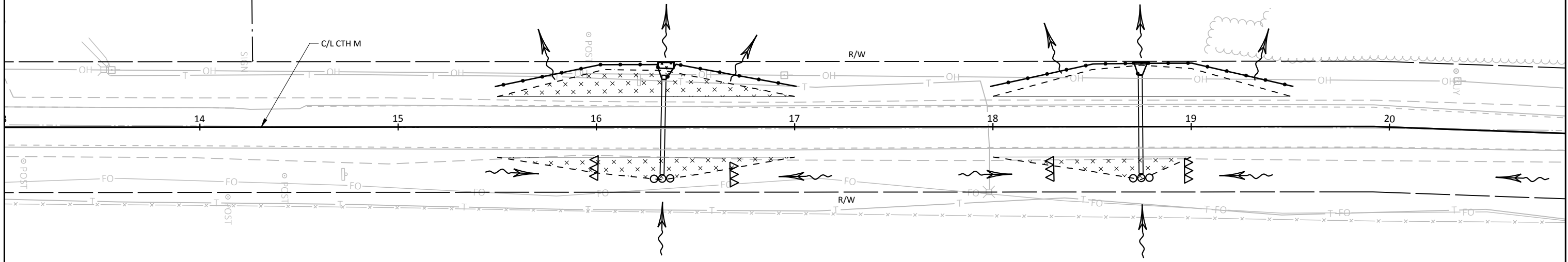
LEGEND

- DIRECTION OF TRAVEL
- DIRECTION OF FLOW
- SAWING ASPHALT



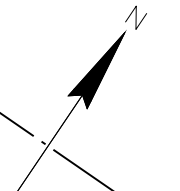
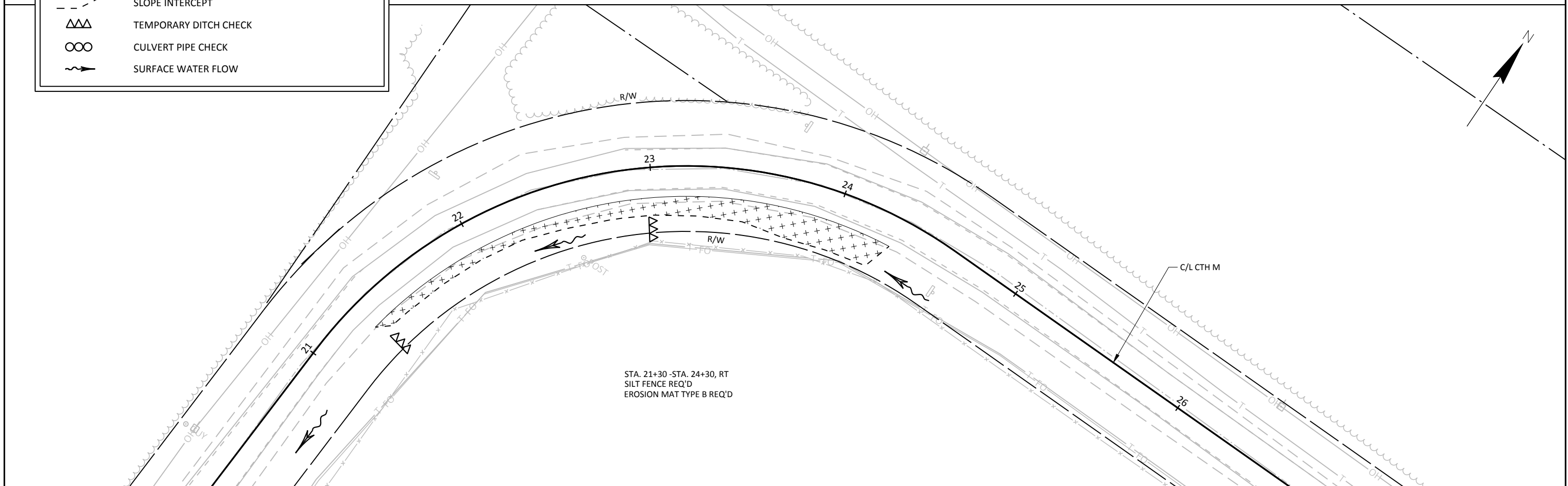
STA. 15+50 - STA. 17+00
SILT FENCE REQ'D
EROSION MAT TYPE B REQ'D
CULVERT PIPE CHECK REQ'D

STA. 18+00 - STA. 19+50
SILT FENCE REQ'D
EROSION MAT TYPE B REQ'D
CULVERT PIPE CHECK REQ'D

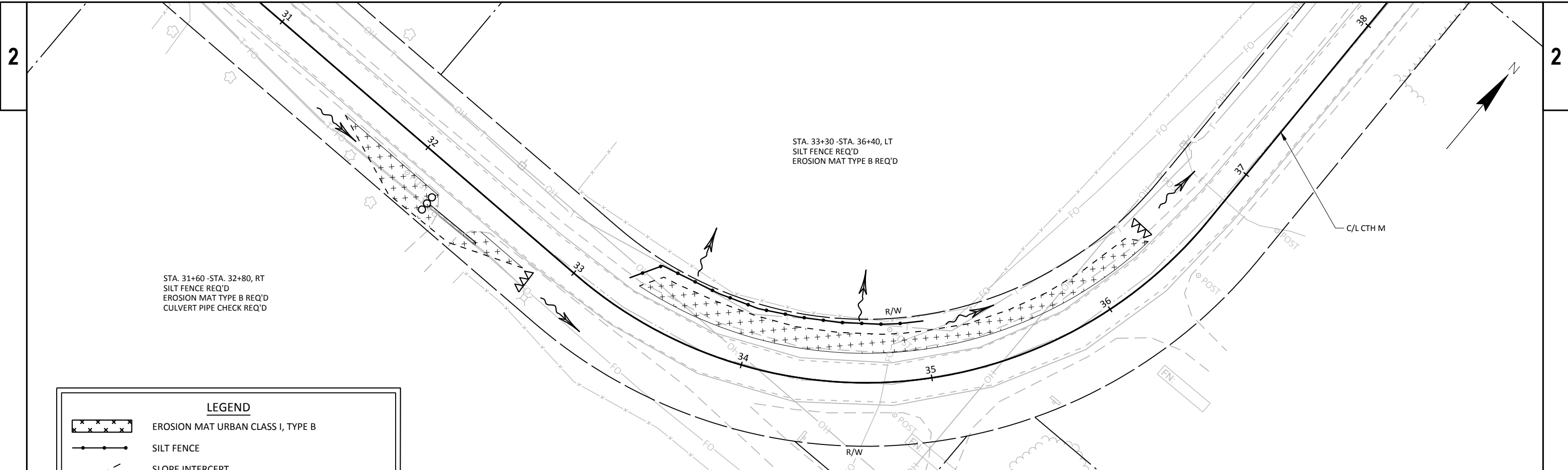


LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

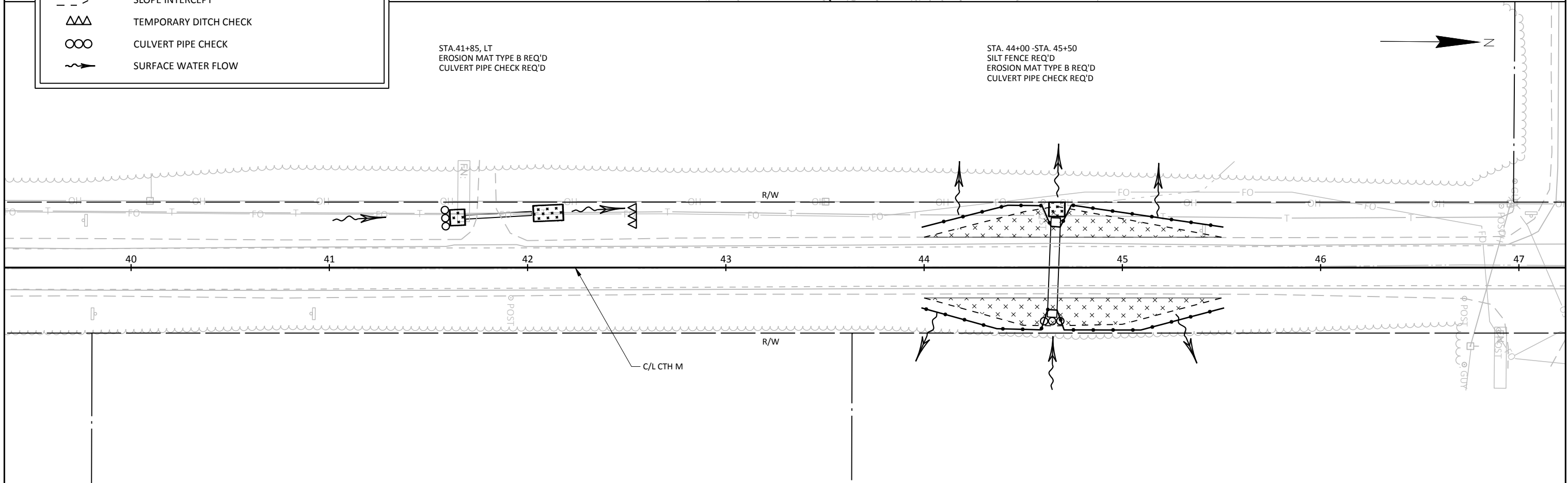


STA. 21+30 - STA. 24+30, RT
SILT FENCE REQ'D
EROSION MAT TYPE B REQ'D

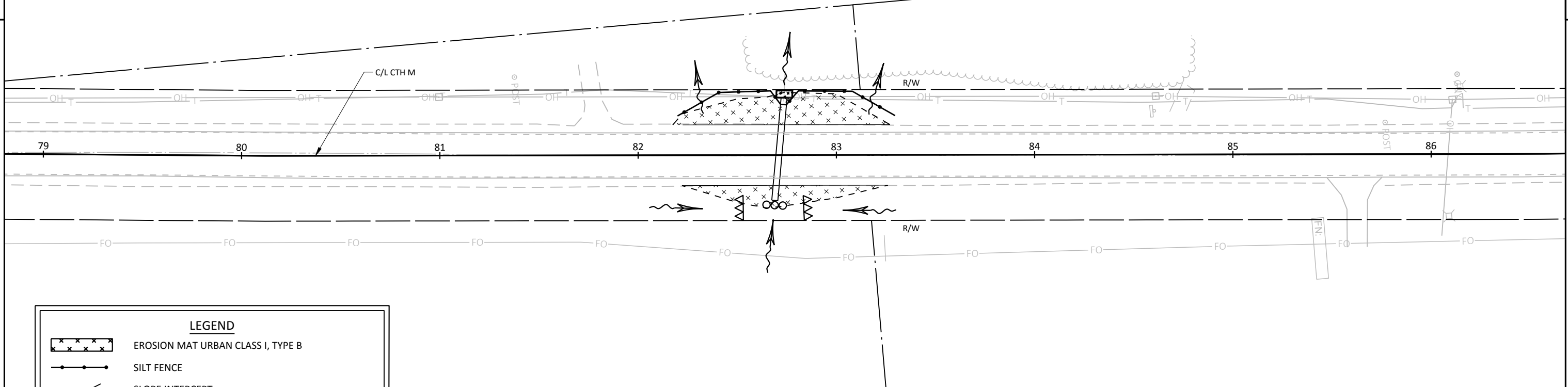


LEGEND

	EROSION MAT URBAN CLASS I, TYPE B
	SILT FENCE
	SLOPE INTERCEPT
	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
	SURFACE WATER FLOW



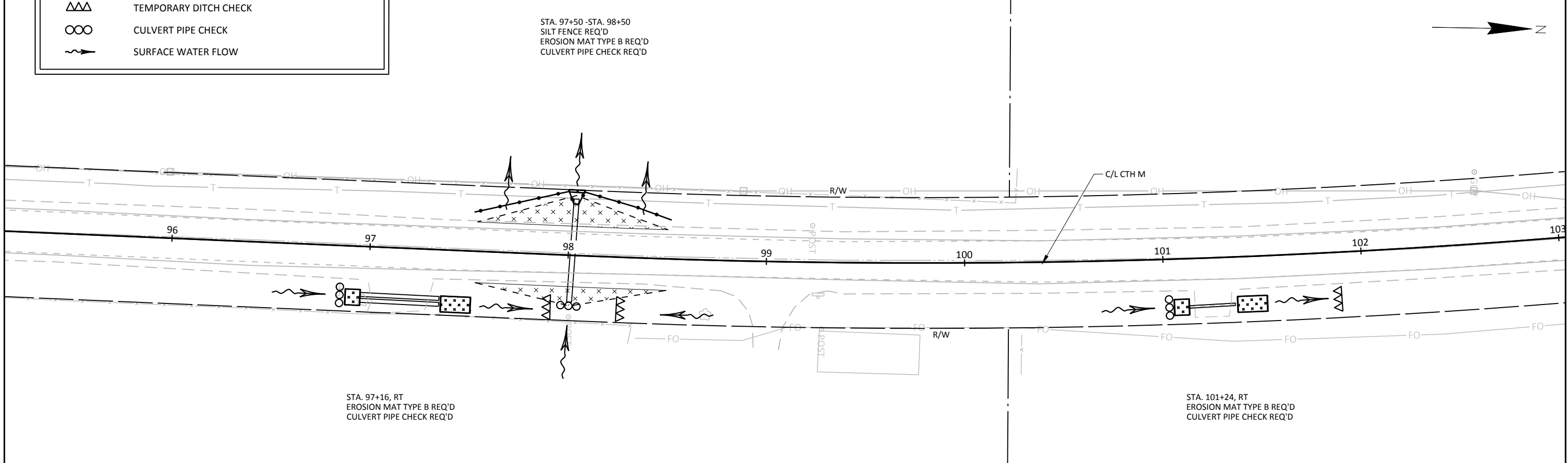
STA. 82+25 -STA. 83+25
SILT FENCE REQ'D
EROSION MAT TYPE B REQ'D
CULVERT PIPE CHECK REQ'D



LEGEND

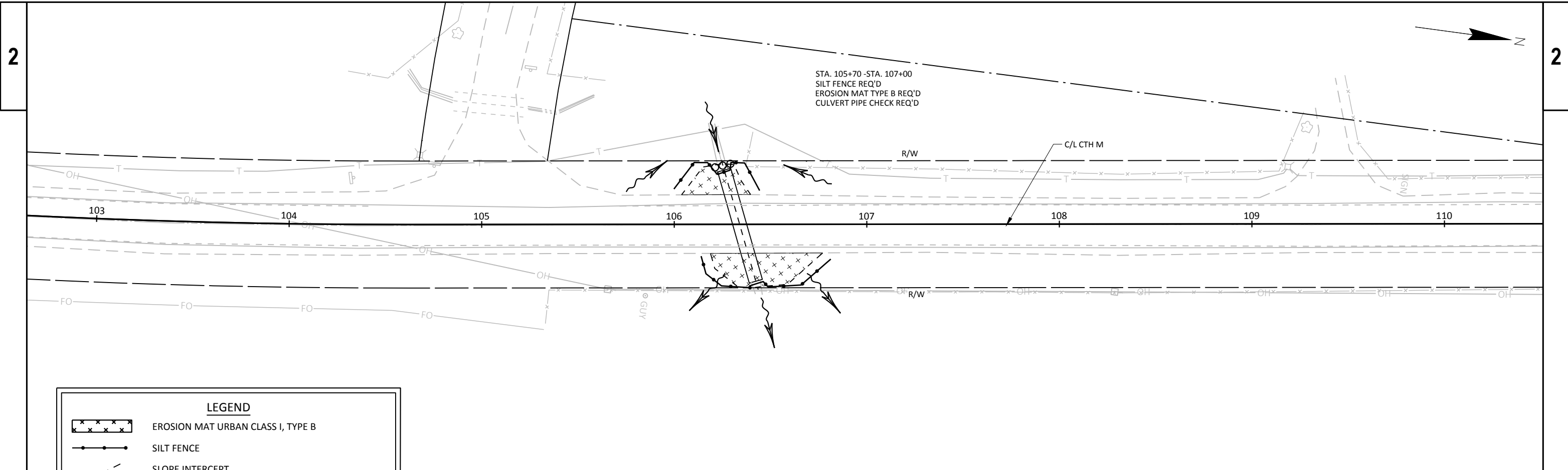
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

STA. 97+50 -STA. 98+50
SILT FENCE REQ'D
EROSION MAT TYPE B REQ'D
CULVERT PIPE CHECK REQ'D

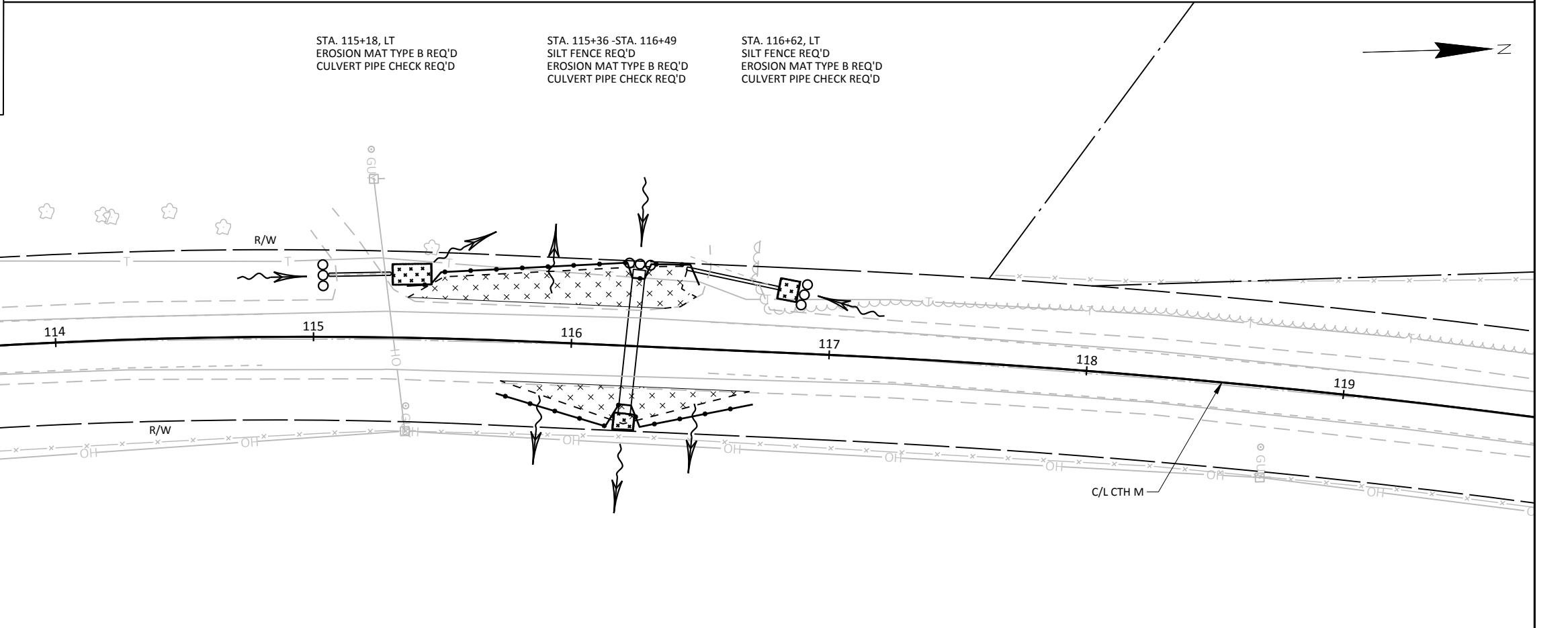


STA. 97+16, RT
EROSION MAT TYPE B REQ'D
CULVERT PIPE CHECK REQ'D

STA. 101+24, RT
EROSION MAT TYPE B REQ'D
CULVERT PIPE CHECK REQ'D



LEGEND	
	EROSION MAT URBAN CLASS I, TYPE B
	SILT FENCE
	SLOPE INTERCEPT
	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
	SURFACE WATER FLOW



PROJECT NO: 7831-06-70

HWY: CTH M

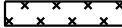
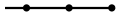
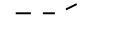



COUNTY: EAU CLAIRE

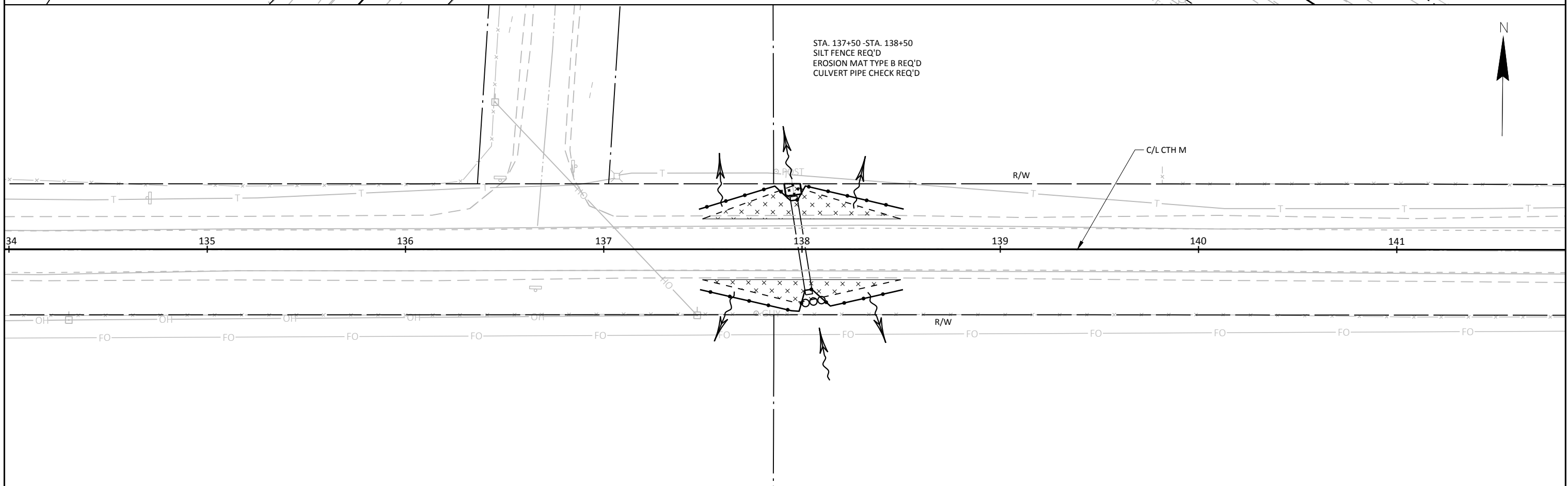
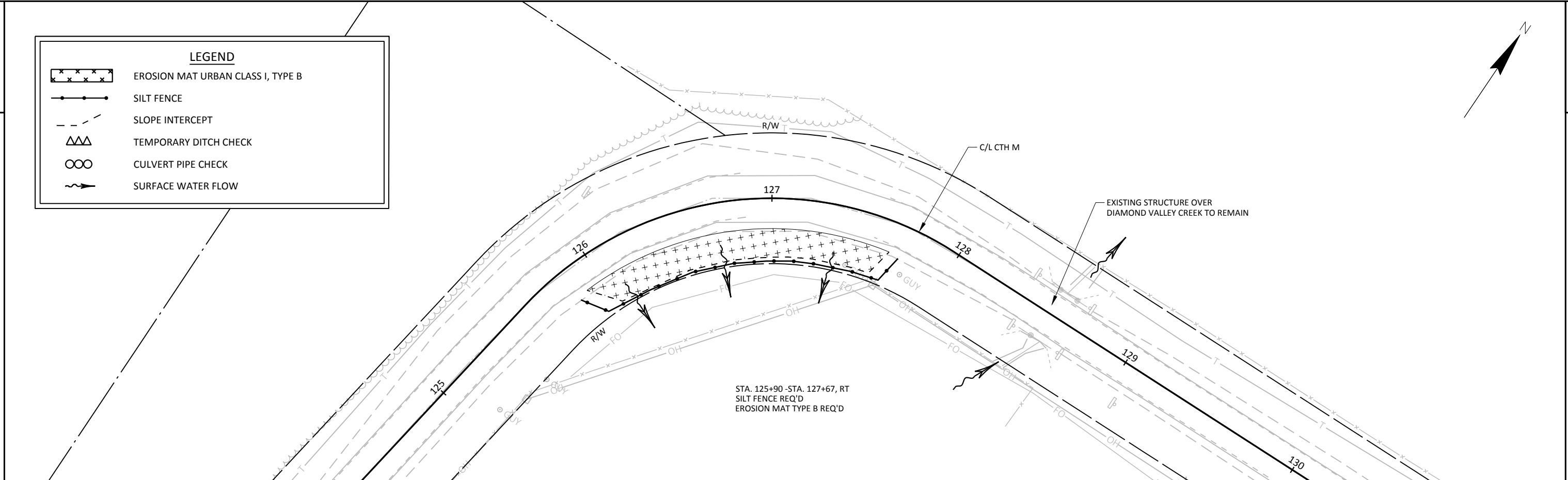
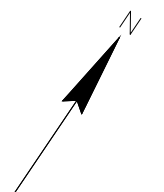
EROSION CONTROL

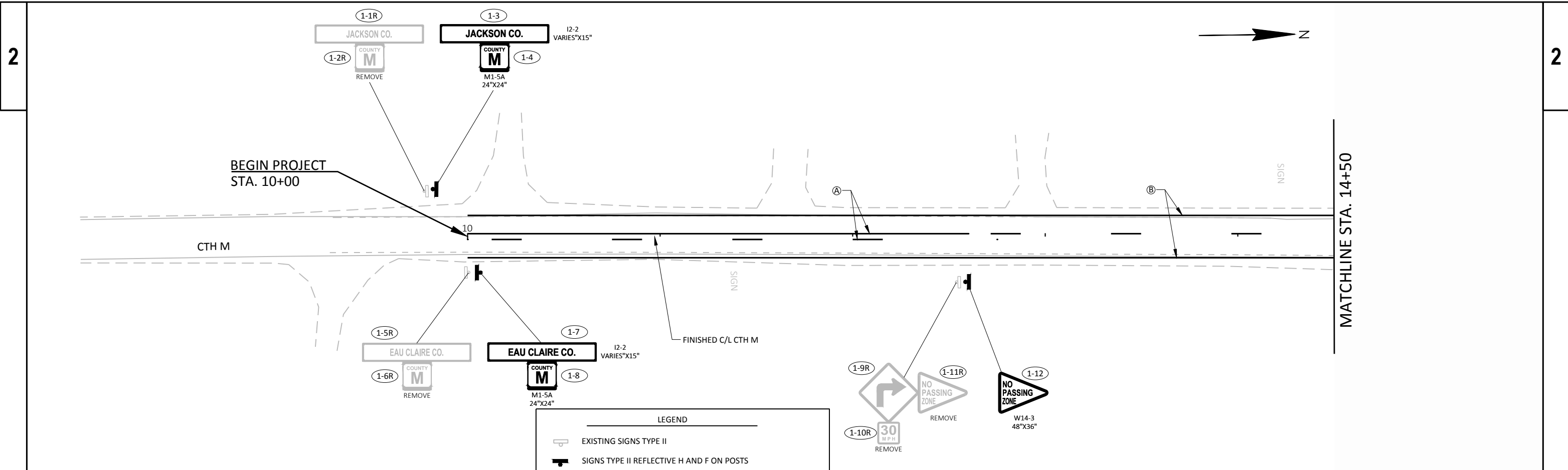
SHEET

E

LEGEND

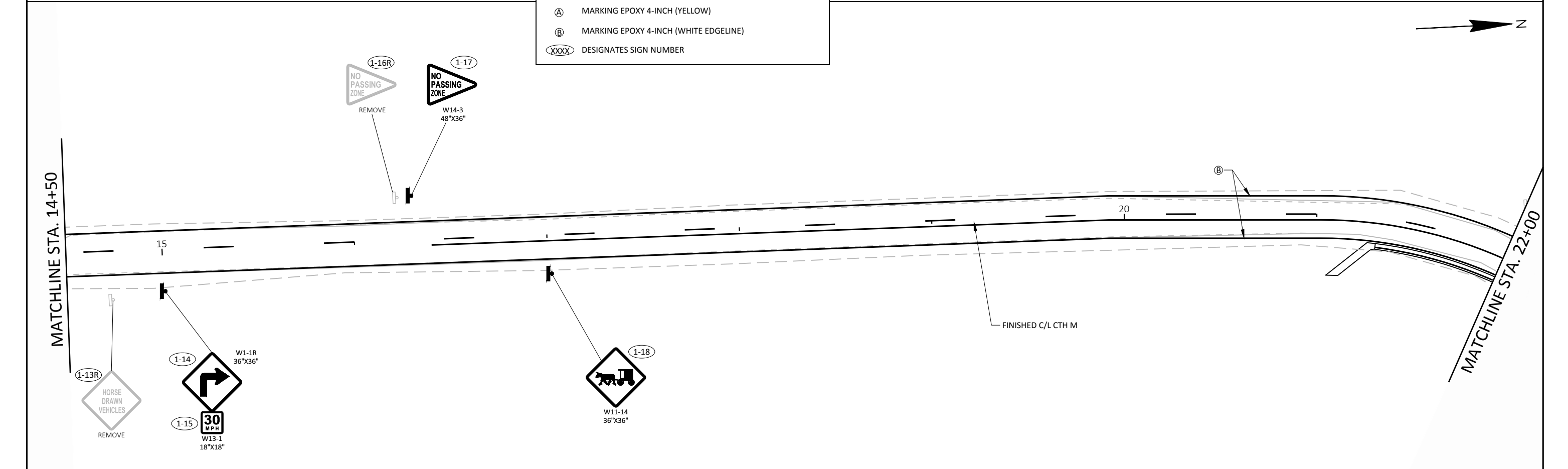
-  EROSION MAT URBAN CLASS I, TYPE B
-  SILT FENCE
-  SLOPE INTERCEPT
-  TEMPORARY DITCH CHECK
-  CULVERT PIPE CHECK
-  SURFACE WATER FLOW





LEGEND

	EXISTING SIGNS TYPE II
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
	MARKING EPOXY 4-INCH (YELLOW)
	MARKING EPOXY 4-INCH (WHITE EDGELINE)
	DESIGNATES SIGN NUMBER



PROJECT NO: 7831-06-70

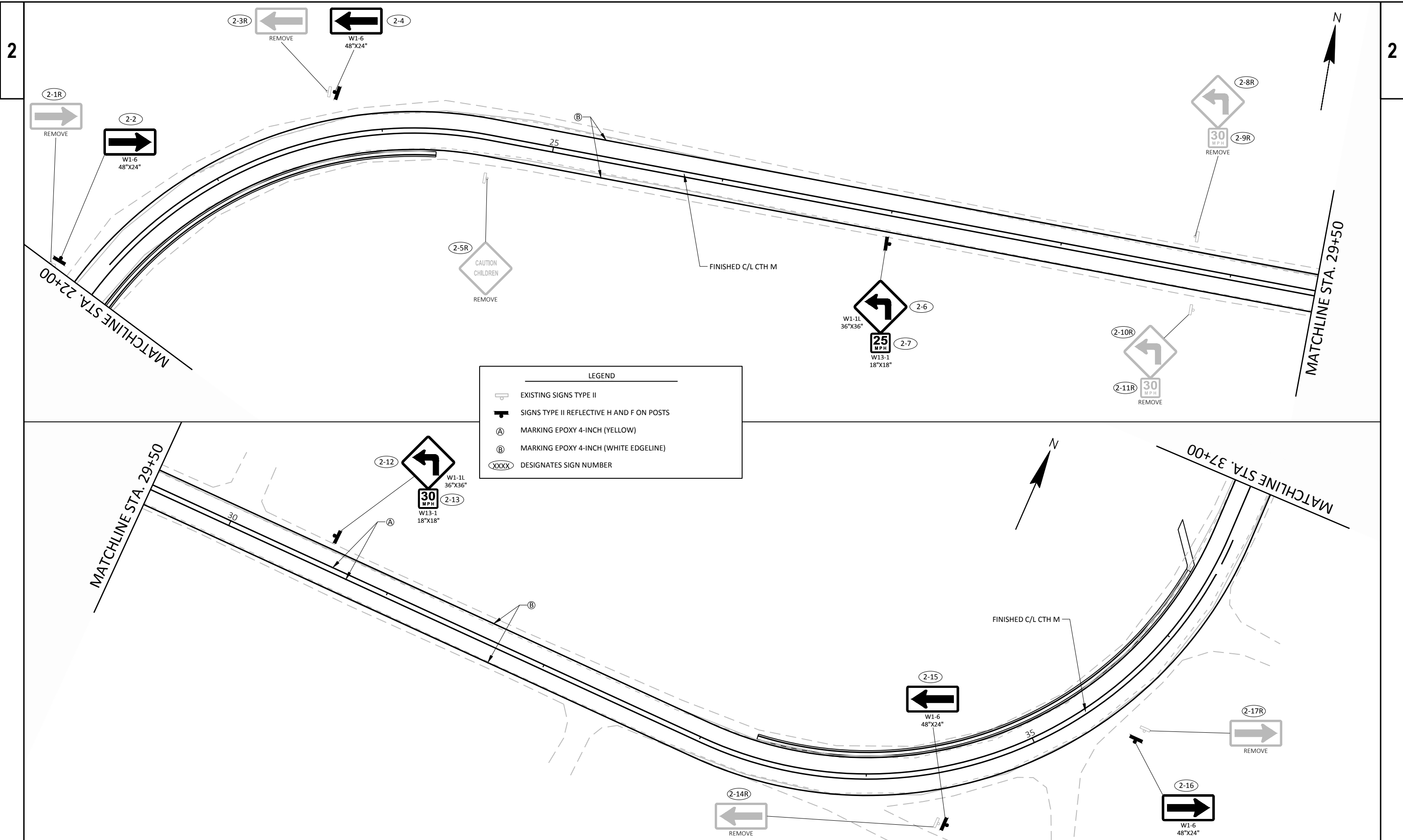
HWY: CTH M

COUNTY: EAU CLAIRE

PERMANENT SIGNING AND PAVEMENT MARKING

SHEET

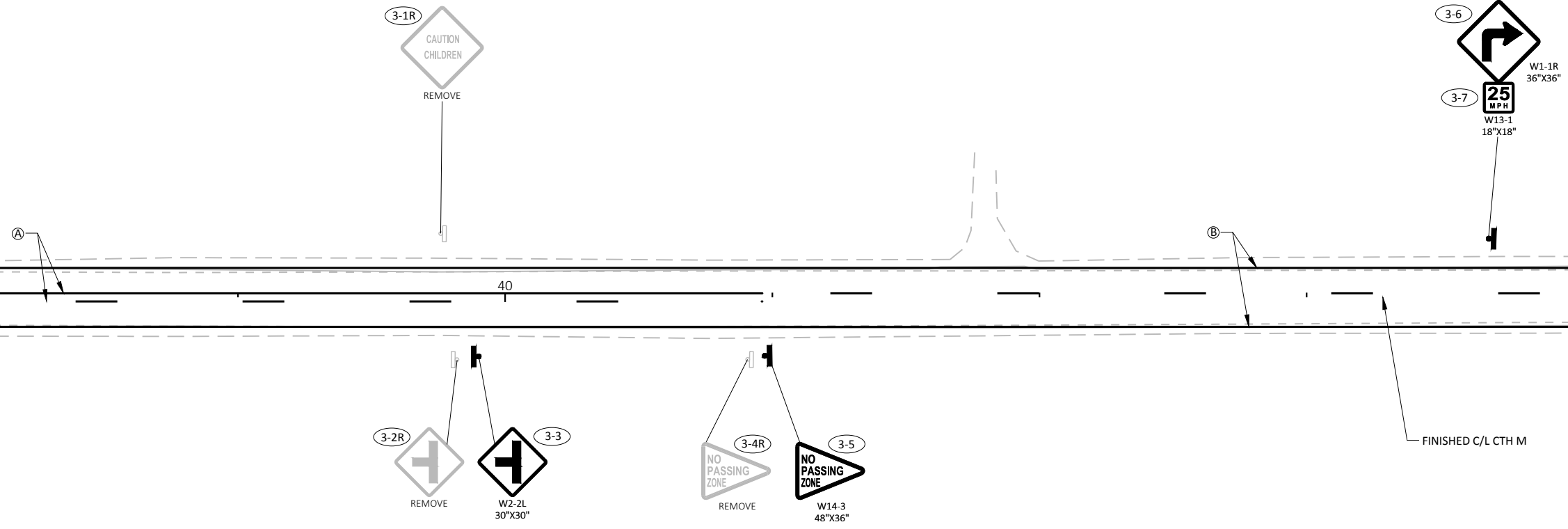
E








LEGEND	
	EXISTING SIGNS TYPE II
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
	MARKING EPOXY 4-INCH (YELLOW)
	MARKING EPOXY 4-INCH (WHITE EDGELINE)
	DESIGNATES SIGN NUMBER

MATCHLINE STA. 37+00

MATCHLINE STA. 44+50

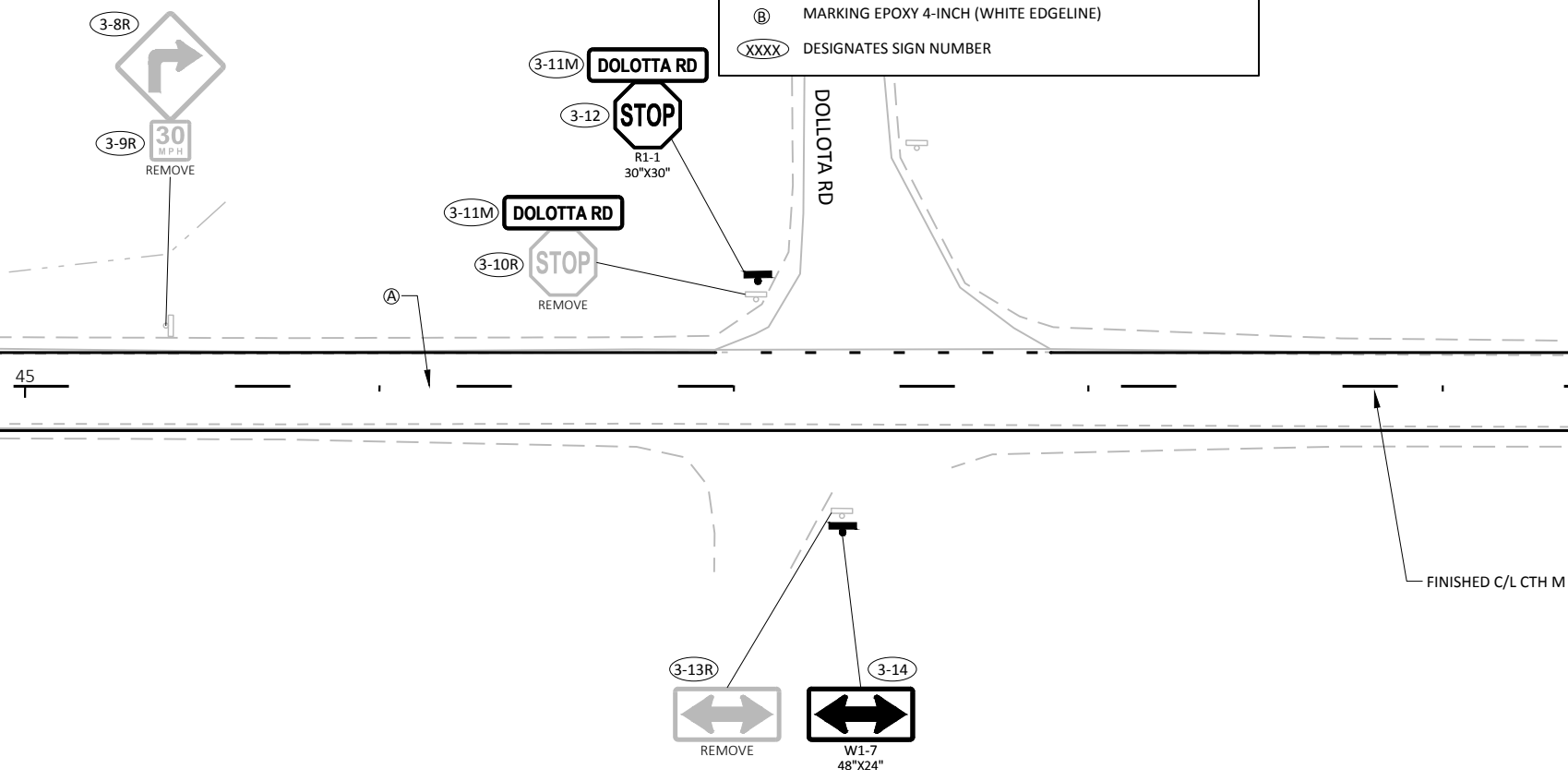


LEGEND

-  EXISTING SIGNS TYPE II
-  SIGNS TYPE II REFLECTIVE H AND F ON POSTS
-  MARKING EPOXY 4-INCH (YELLOW)
-  MARKING EPOXY 4-INCH (WHITE EDGELINE)
-  DESIGNATES SIGN NUMBER

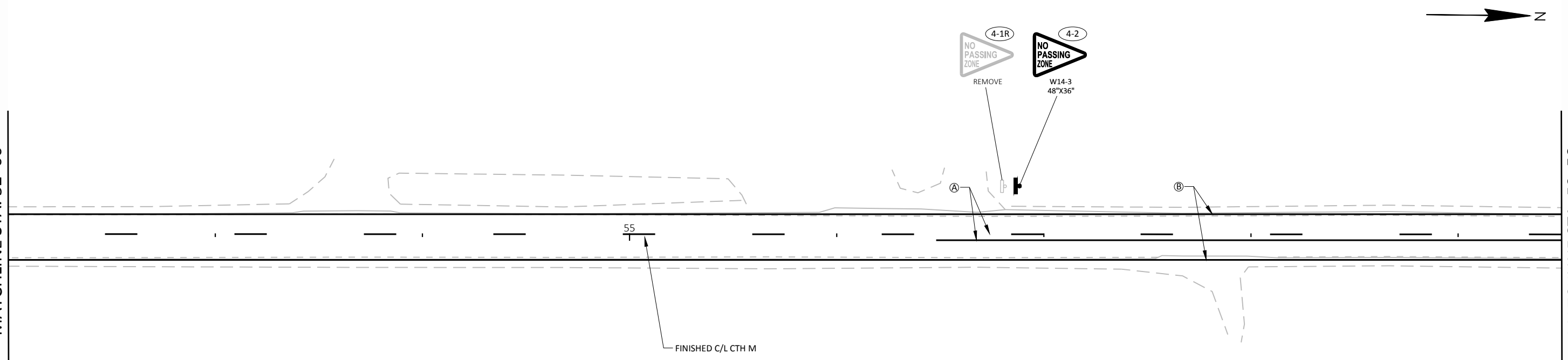
MATCHLINE STA. 44+50

MATCHLINE STA. 52+00



MATCHLINE STA. 52+00

MATCHLINE STA. 59+50



55

FINISHED C/L CTH M

4-1R
NO PASSING ZONE






4-2
NO PASSING ZONE
W14-3
48"x36"

A

B

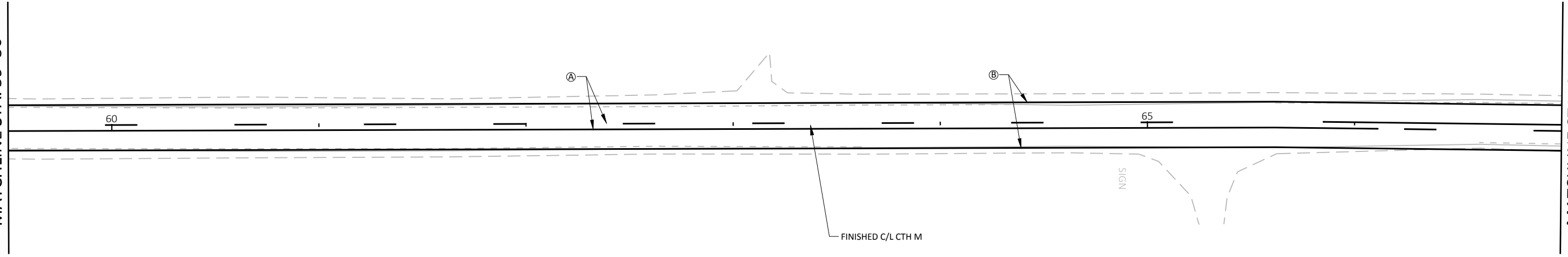


LEGEND

-  EXISTING TYPE II
-  SIGNS TYPE II REFLECTIVE H AND F ON POSTS
-  MARKING EPOXY 4-INCH (YELLOW)
-  MARKING EPOXY 4-INCH (WHITE EDGELINE)
-  DESIGNATES SIGN NUMBER

MATCHLINE STA. 59+50

MATCHLINE STA. 67+00

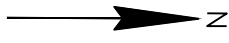


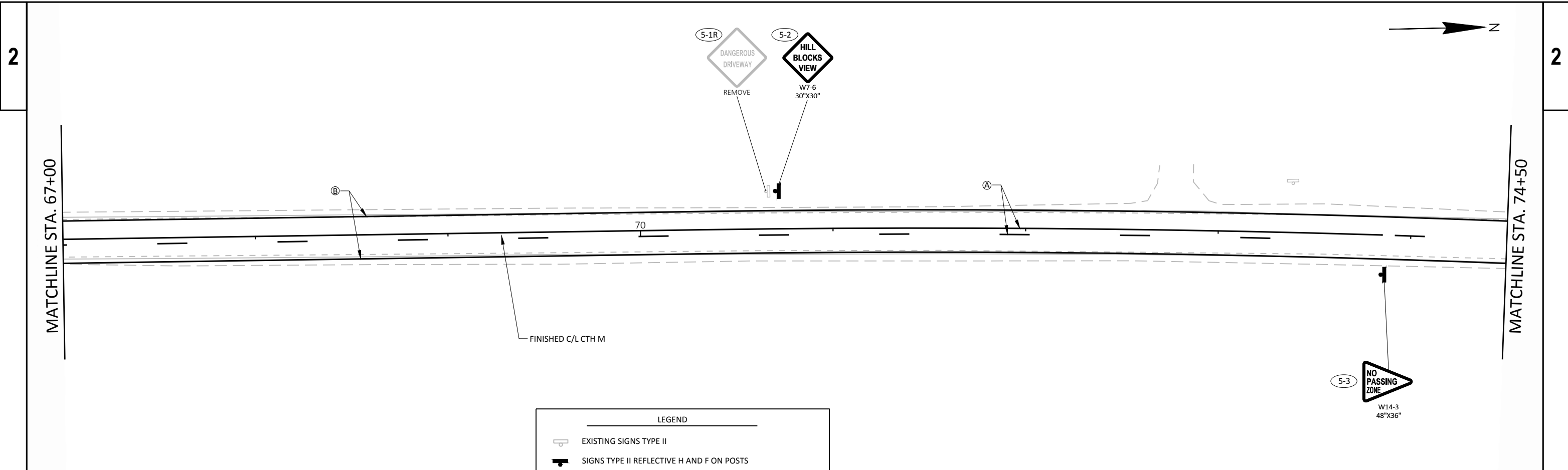
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FINISHED C/L CTH M

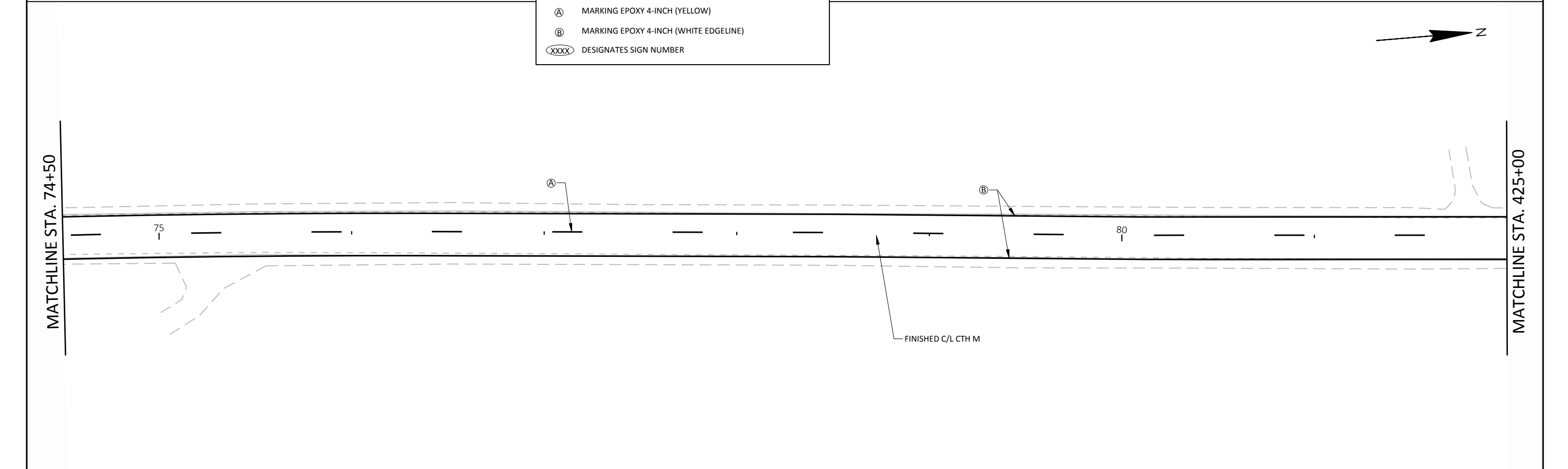
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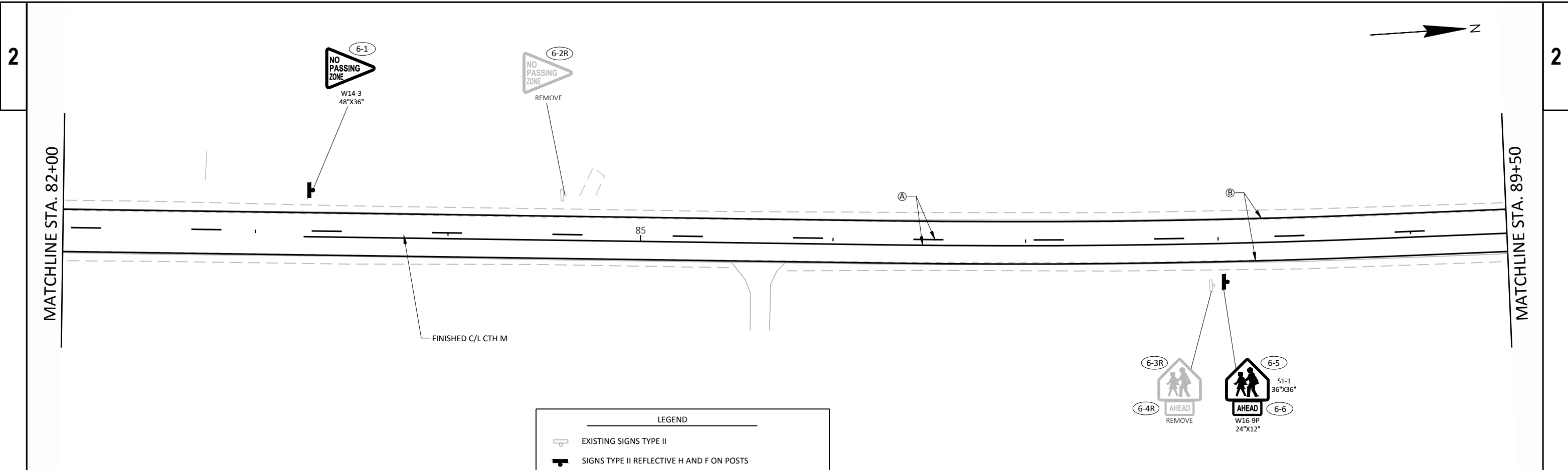
SIGN



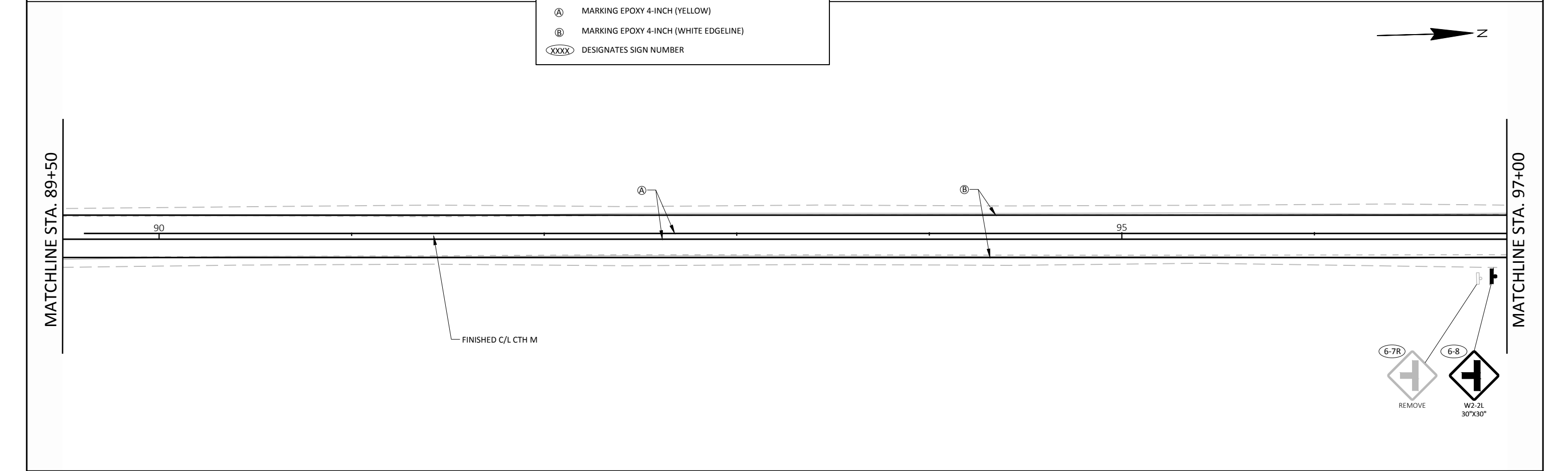


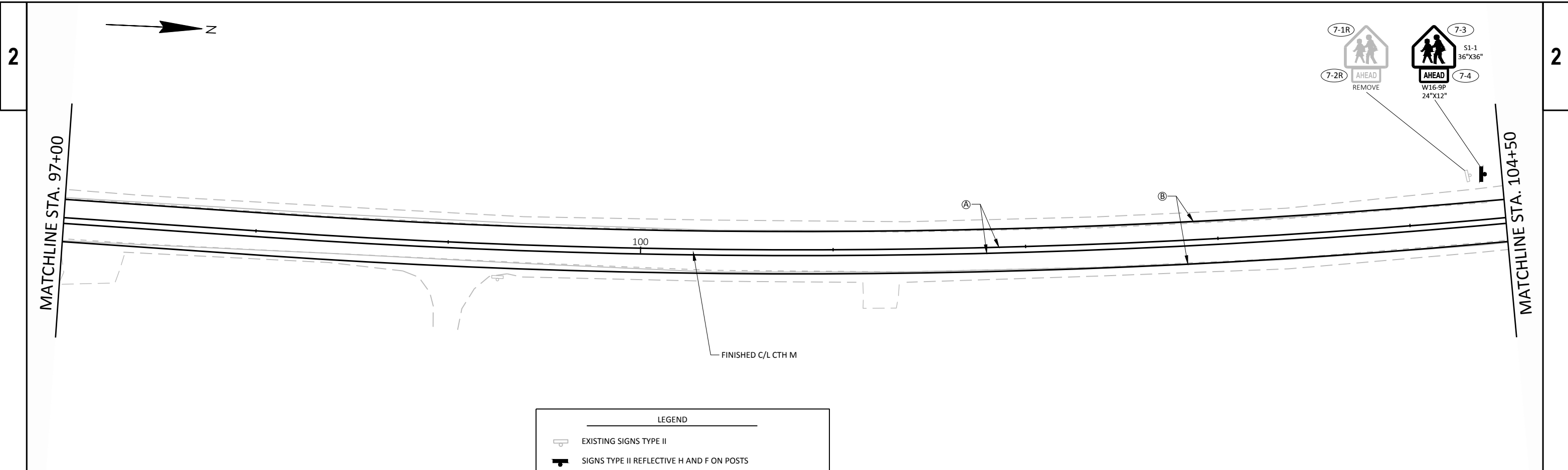
LEGEND	
	EXISTING SIGNS TYPE II
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
	MARKING EPOXY 4-INCH (YELLOW)
	MARKING EPOXY 4-INCH (WHITE EDGELINE)
	DESIGNATES SIGN NUMBER



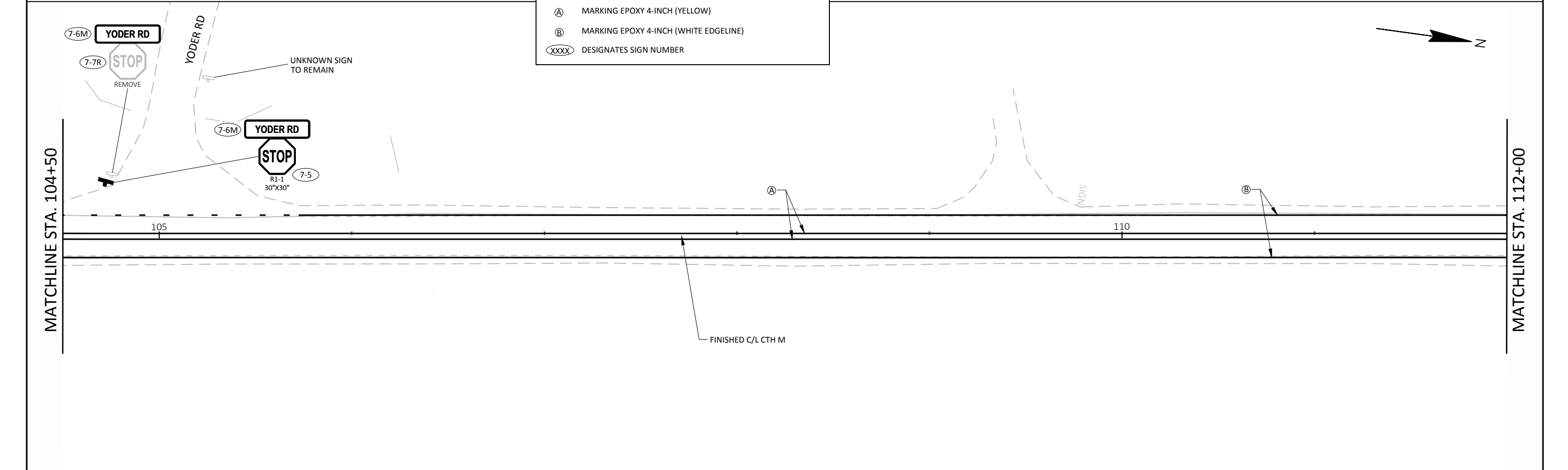


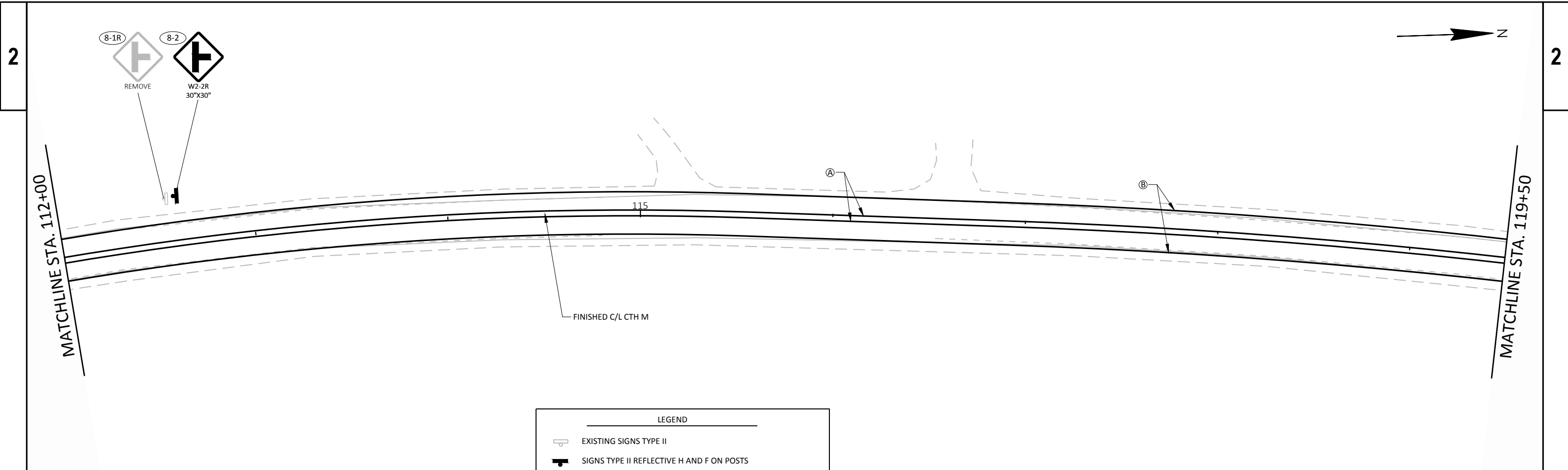
LEGEND	
	EXISTING SIGNS TYPE II
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
	MARKING EPOXY 4-INCH (YELLOW)
	MARKING EPOXY 4-INCH (WHITE EDGELINE)
	DESIGNATES SIGN NUMBER



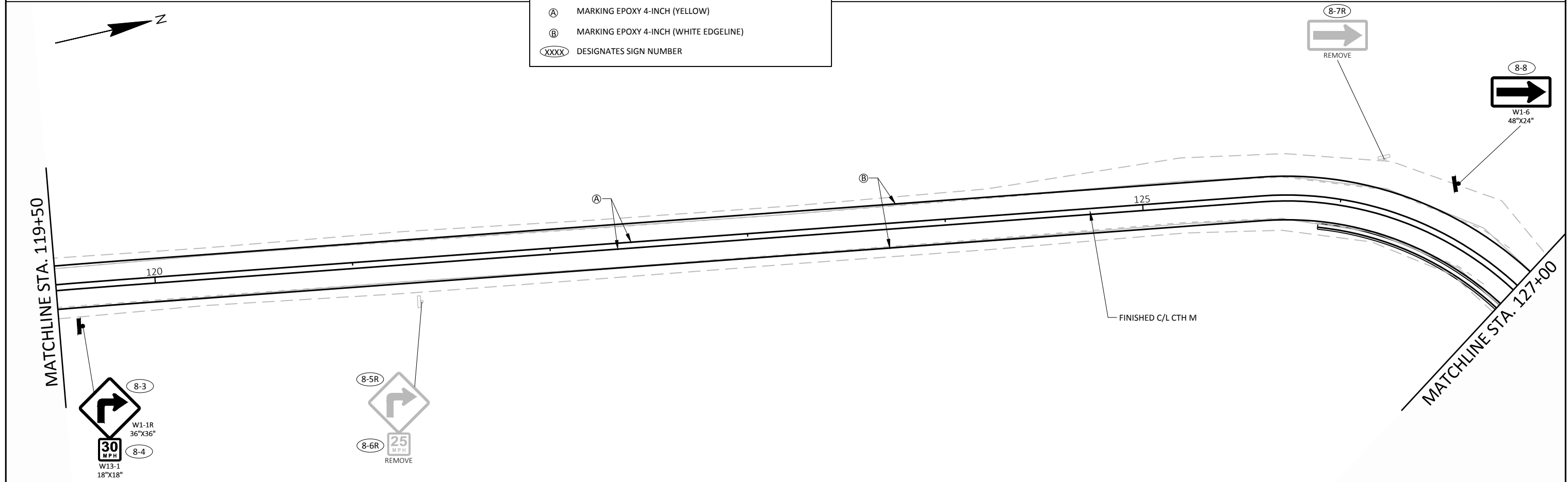


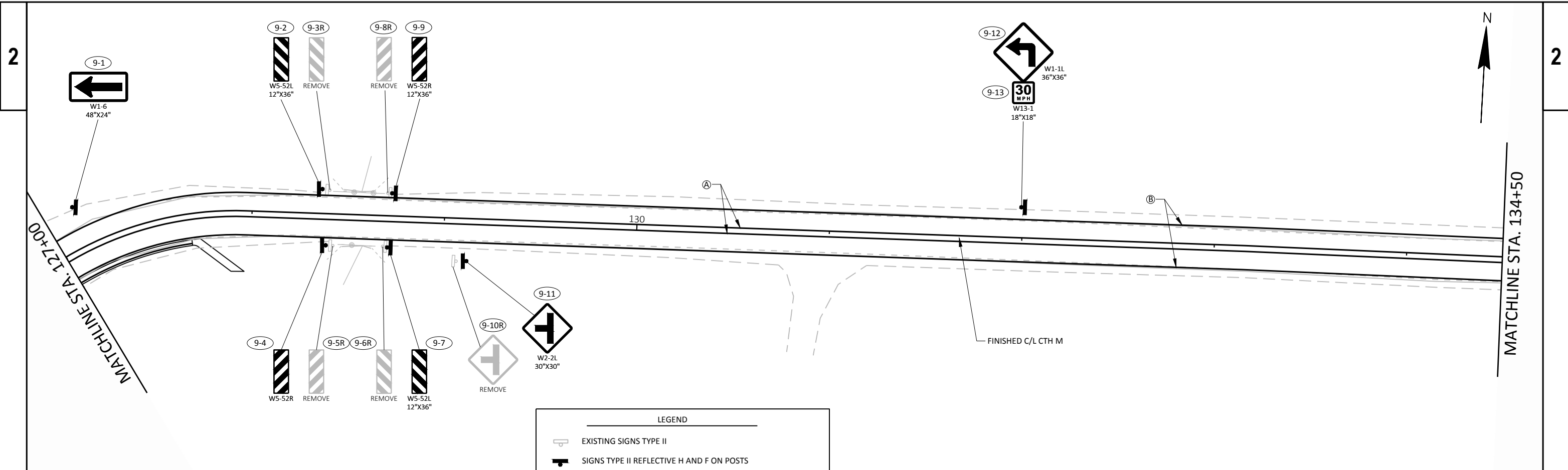
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	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
	MARKING EPOXY 4-INCH (YELLOW)
	MARKING EPOXY 4-INCH (WHITE EDGELINE)
	DESIGNATES SIGN NUMBER





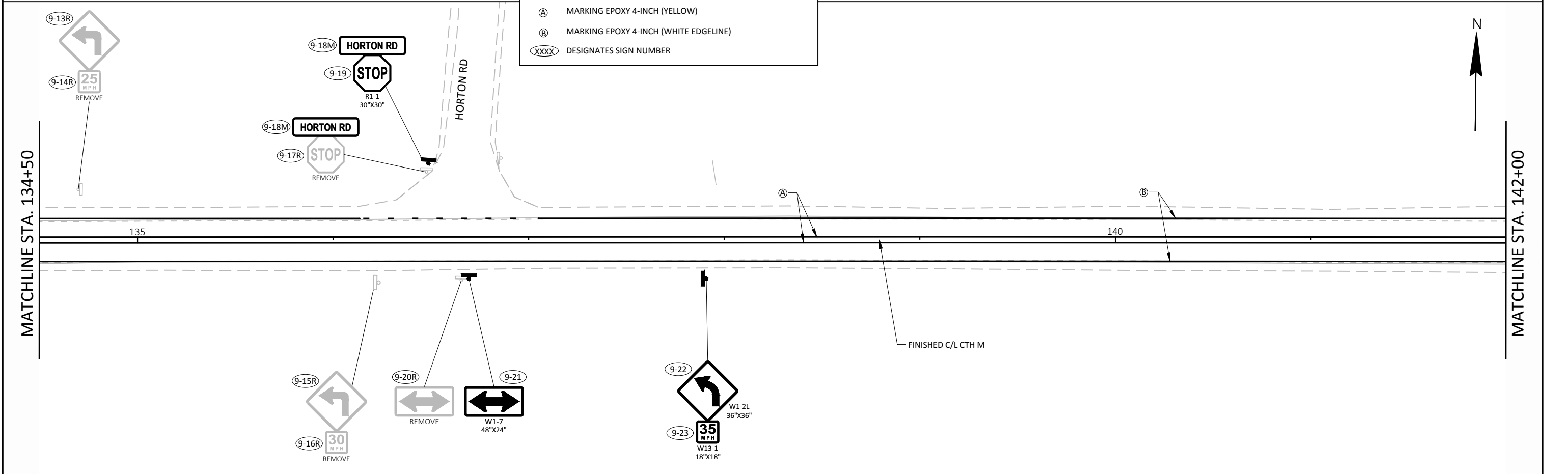
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	EXISTING SIGNS TYPE II
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
	MARKING EPOXY 4-INCH (YELLOW)
	MARKING EPOXY 4-INCH (WHITE EDGELINE)
	DESIGNATES SIGN NUMBER

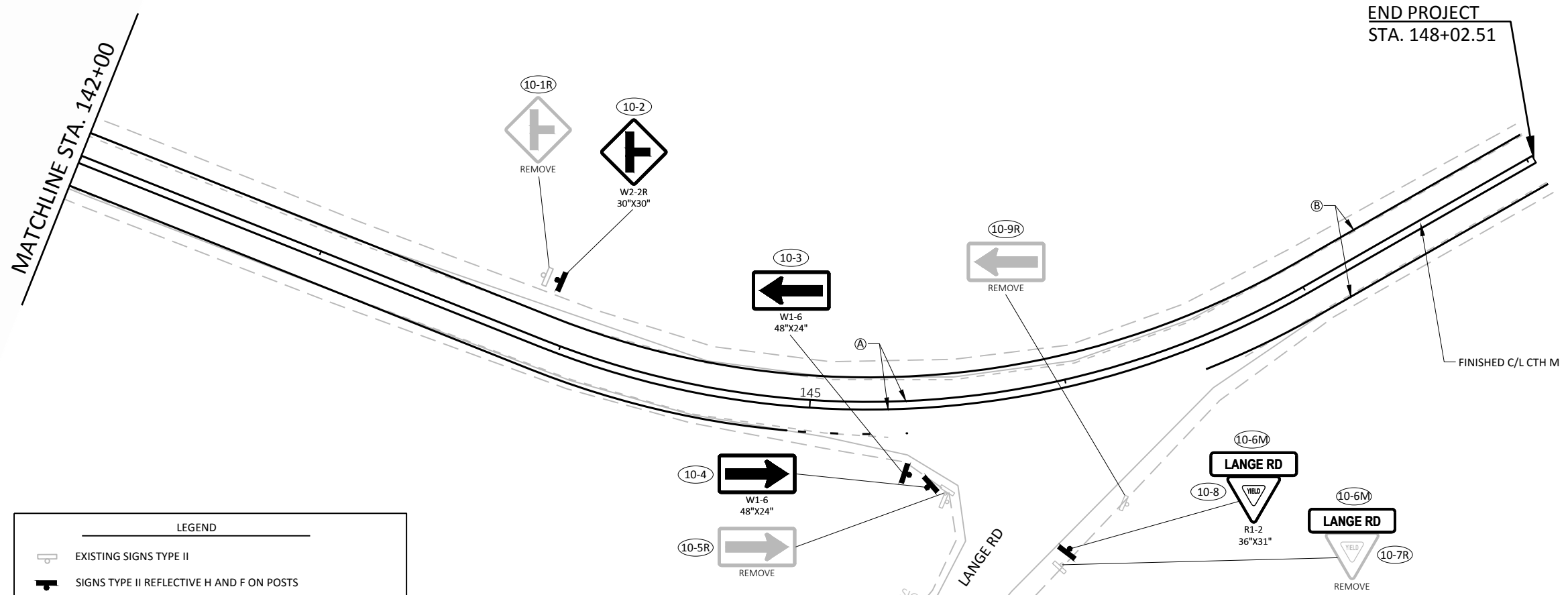




LEGEND

- EXISTING SIGNS TYPE II
- SIGNS TYPE II REFLECTIVE H AND F ON POSTS
- MARKING EPOXY 4-INCH (YELLOW)
- MARKING EPOXY 4-INCH (WHITE EDGELINE)
- DESIGNATES SIGN NUMBER





LEGEND

- EXISTING SIGNS TYPE II
- SIGNS TYPE II REFLECTIVE H AND F ON POSTS
- MARKING EPOXY 4-INCH (YELLOW)
- MARKING EPOXY 4-INCH (WHITE EDGELINE)
- DESIGNATES SIGN NUMBER



GENERAL NOTES FOR TRAFFIC CONTROL

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

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

ALL "W" AND "WO" SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED.

ALL ROADS AND STREETS WITHIN THE WORK ZONES SHALL BE KEPT ACCESSIBLE FOR EMERGENCY VEHICLES, RESIDENTS AND BUSINESSES.

ANY STOP SIGNS WHICH ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

ALL SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND MAINTAIN ACCESS TO ALL PROPERTY ABUTTING THE ROADWAY CONSTRUCTION WORK THROUGHOUT THE LIFE OF THE PROJECT.

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, LIGHTS, TEMPORARY MARKINGS, FLAGGERS, AND SUCH OTHER SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200' CLEARANCE TO EXISTING SIGNS.

DURING NIGHT SHUTDOWN, ONE LANE IN EACH DIRECTION MUST REMAIN OPEN.

DURING HOURS OF DARKNESS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.

DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHODS OR SEQUENCES OF OPERATION.

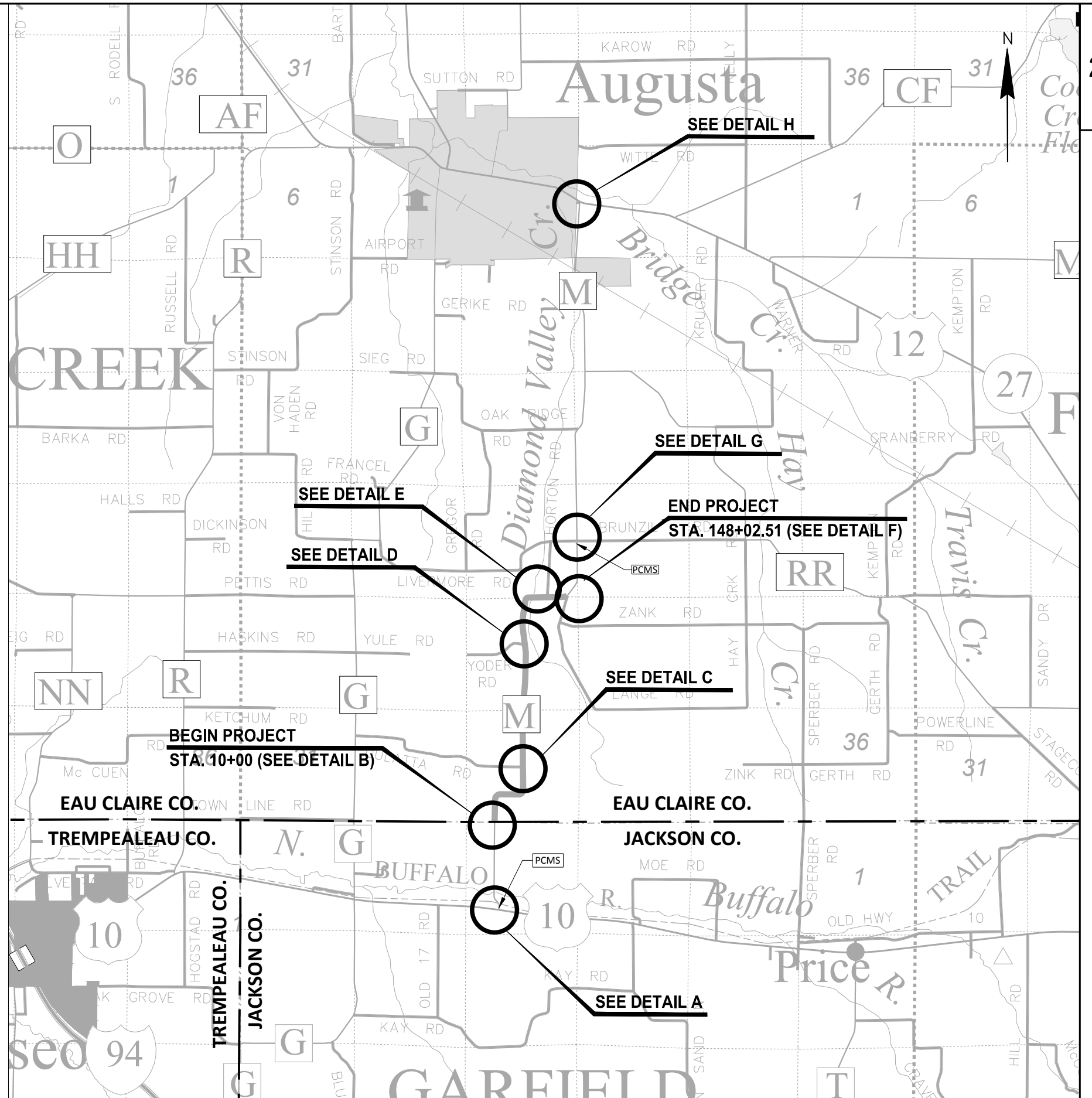
ROAD MACHINERY, FLAGGERS AHEAD, ETC. SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED AT NIGHTS, ON WEEKENDS OR WHEN THE ACTIVITY DOES NOT EXIST.

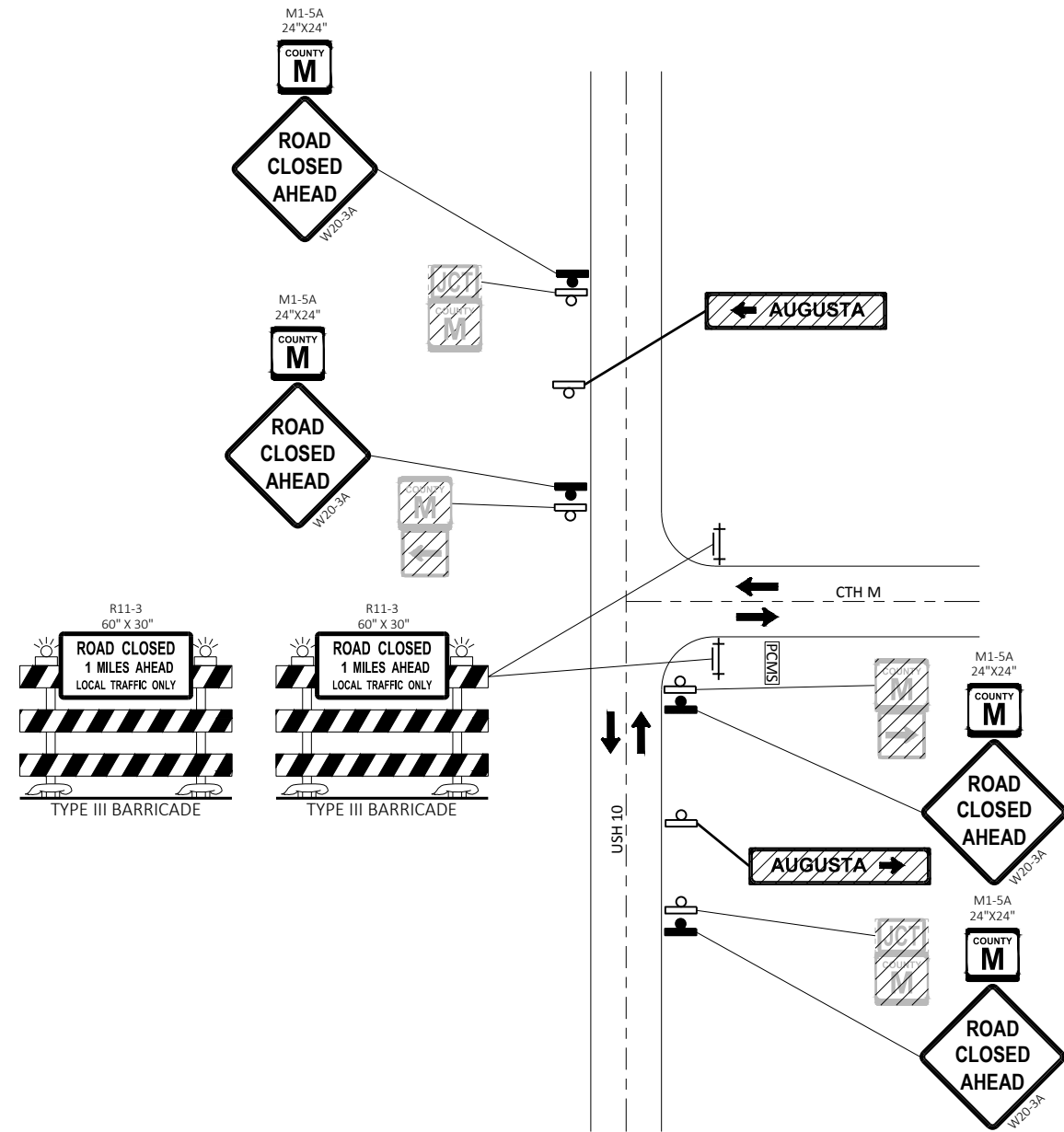
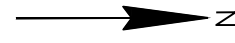
ADDITIONAL DRUMS OR TYPE III BARRICADES MAY BE REQUIRED ADJACENT TO DROP-OFFS, OPEN TRENCHES, OR PROTRUSIONS. COST TO BE INCLUDED WITH OPERATION WHICH CREATES THE HAZARD.

DRUMS PLACED ADJACENT TO WORK AREAS SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

PORTABLE CHANGEABLE MESSAGE BOARD TO BE PLACED TWO WEEKS PRIOR TO CONSTRUCTION STARTING. PCMS MESSAGE TO INCLUDE:







FIRST FRAME ROAD CLOSED	SECOND FRAME BEGINS XX/XX/XX
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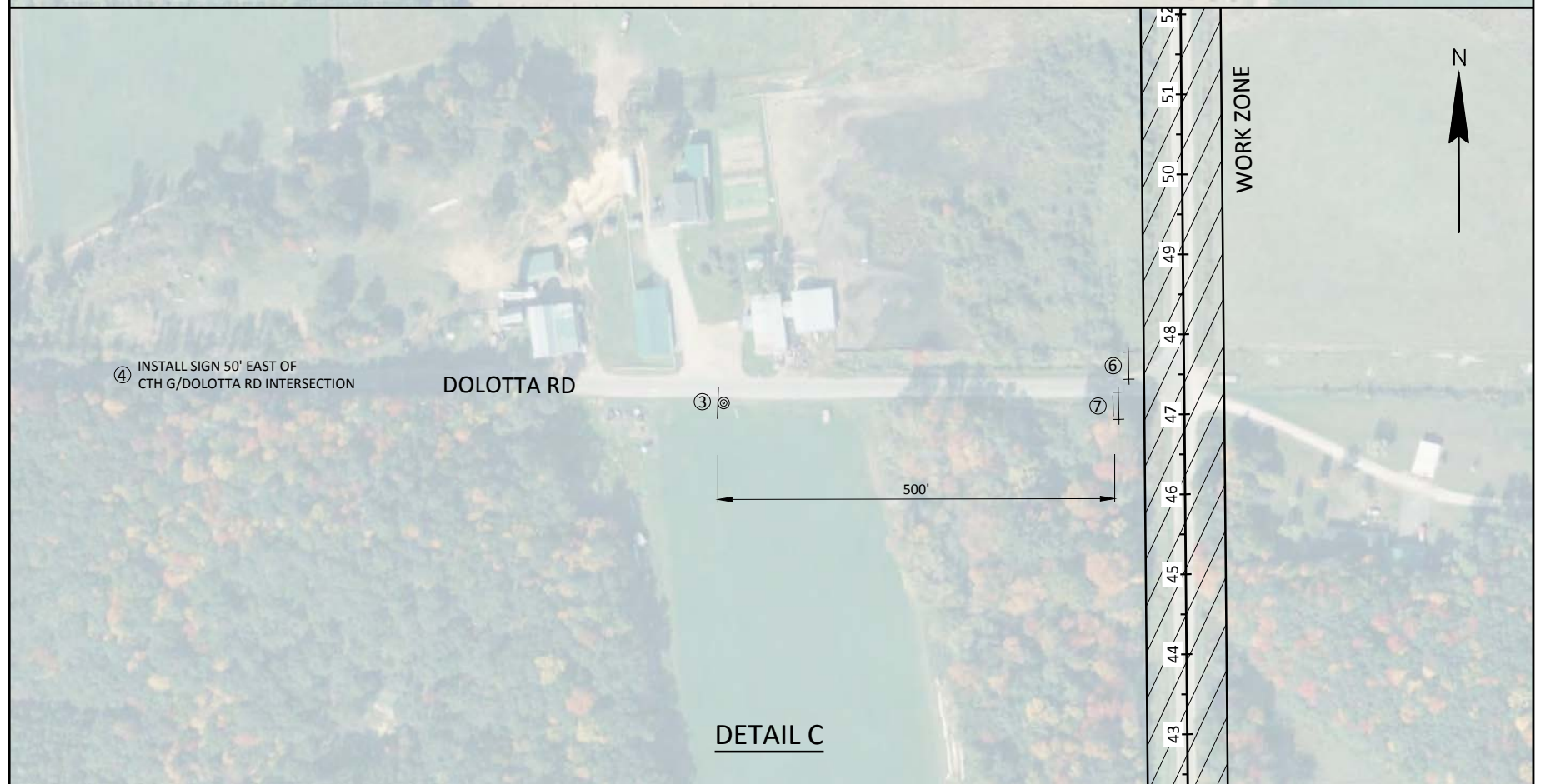
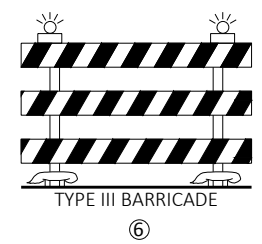
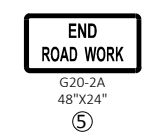


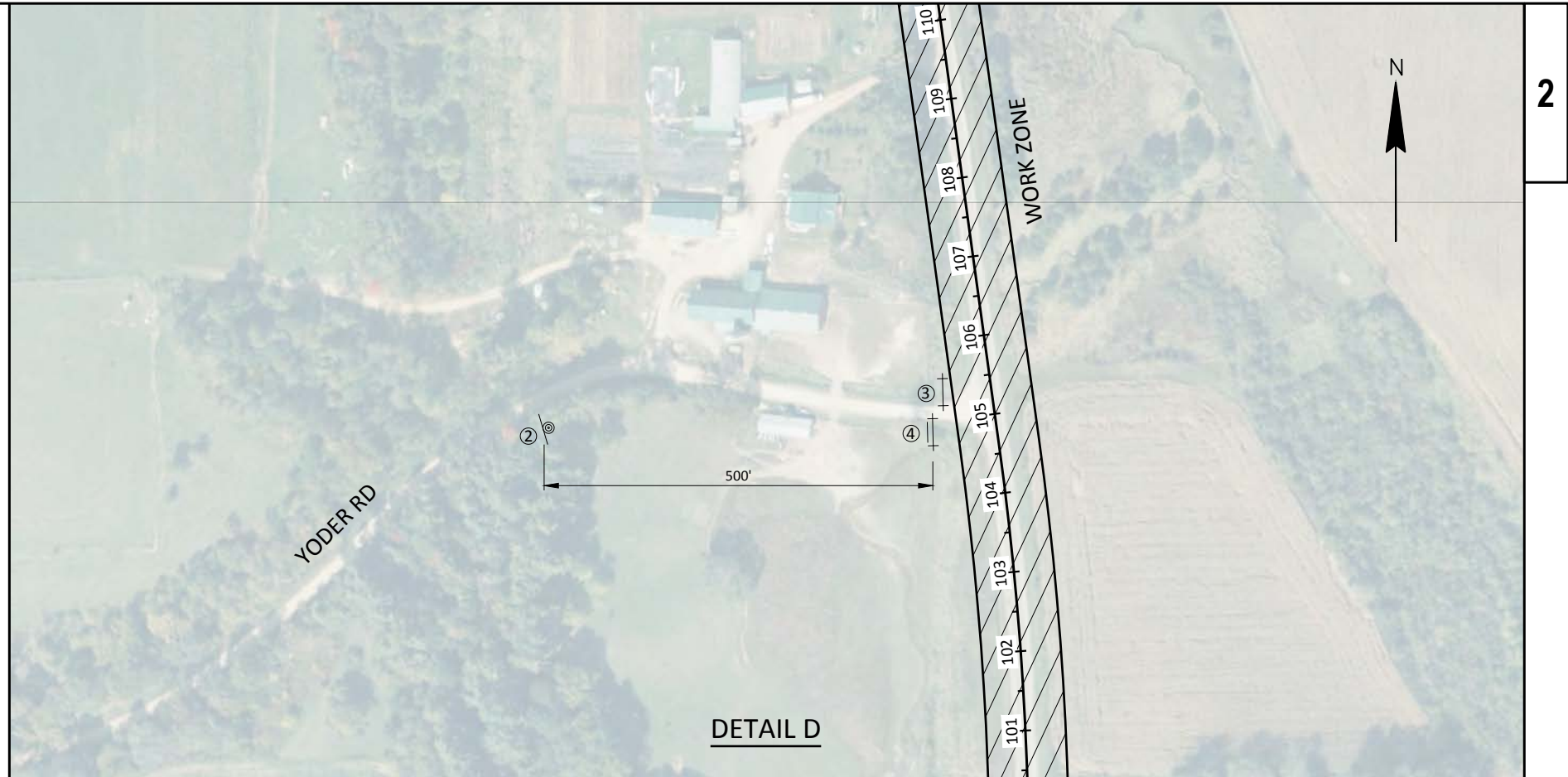
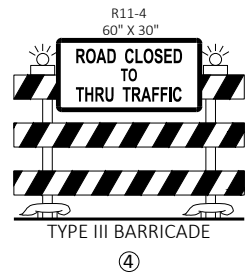
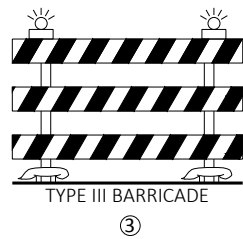


DETAIL A

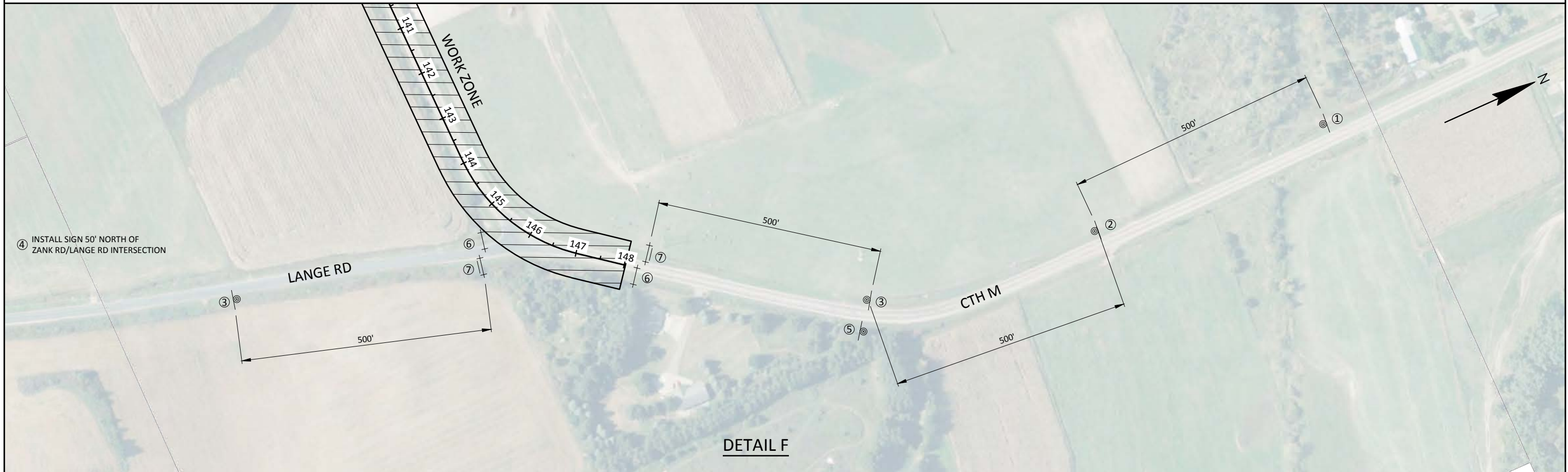
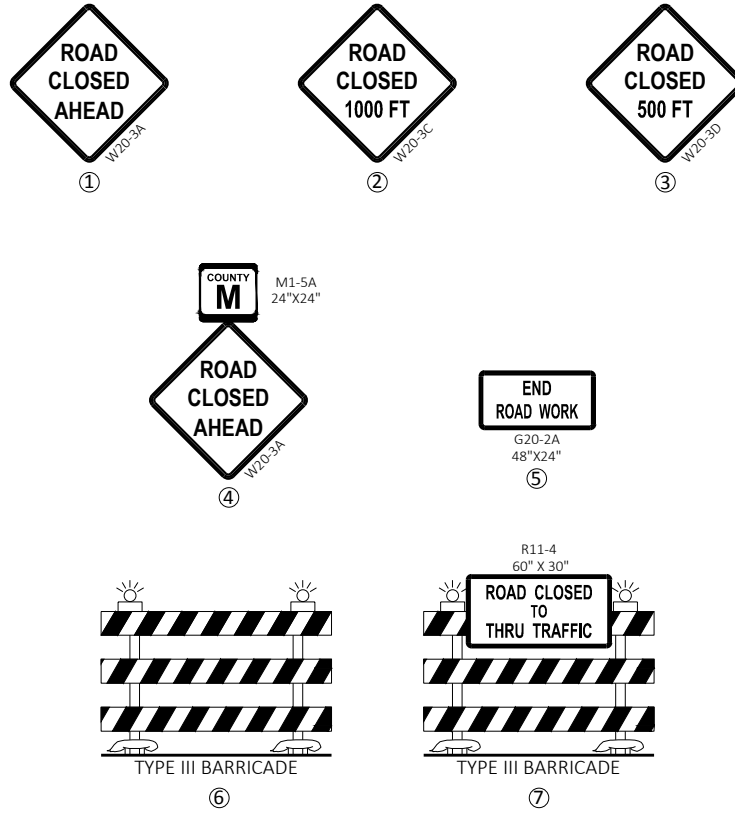
LEGEND:

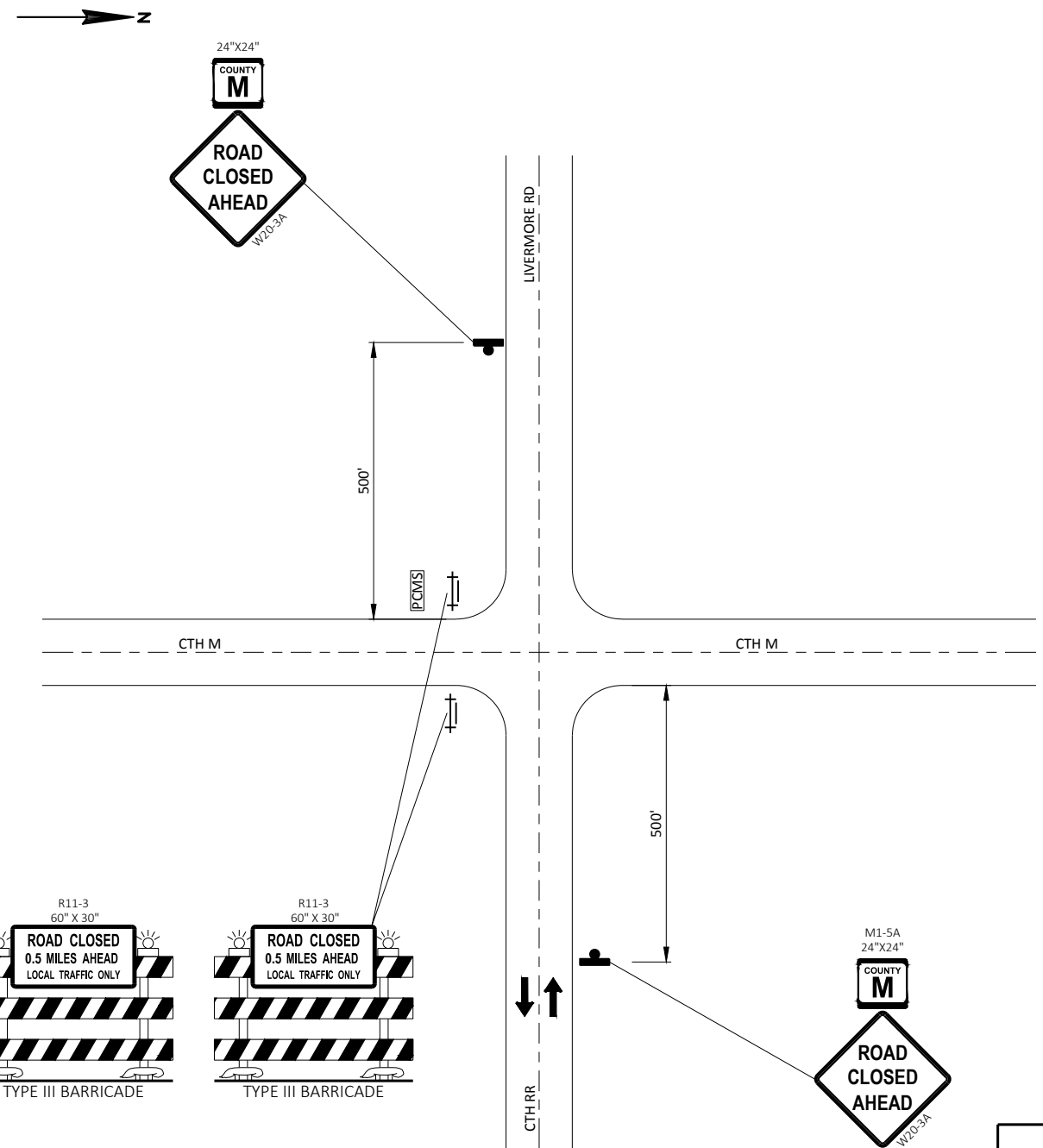
-  POST MOUNTED SIGN
-  EXISTING SIGN ON SINGLE POST
-  TYPE III BARRICADE WITH/WITHOUT SIGN
-  DIRECTION OF TRAFFIC FLOW
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  COVER SIGN



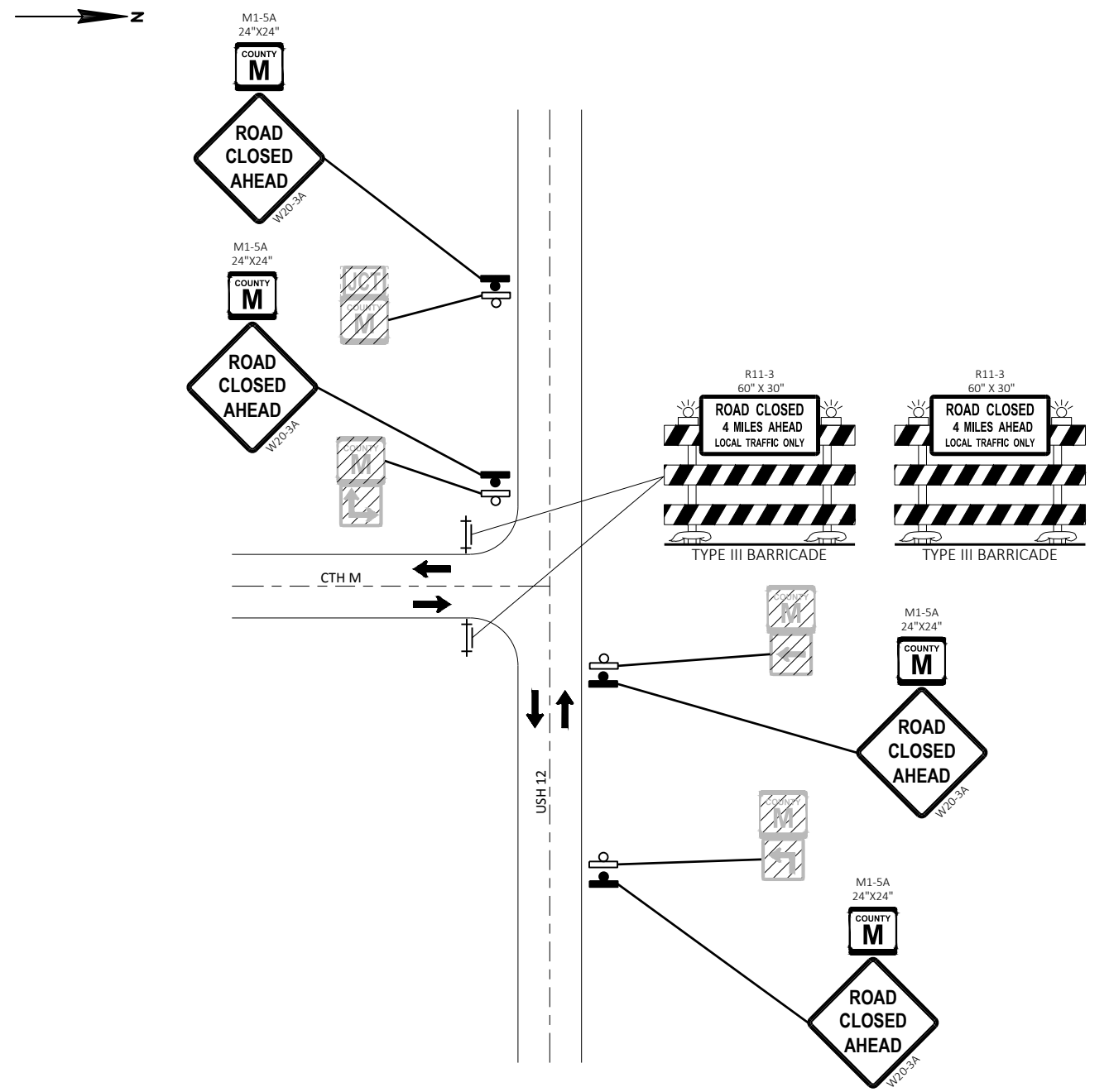


① INSTALL SIGN 50' SOUTH OF LIVERMORE RD/HORTON RD INTERSECTION





DETAIL G



DETAIL H

LEGEND:

- POST MOUNTED SIGN
- EXISTING SIGN ON SINGLE POST
- TYPE III BARRICADE WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- PORTABLE CHANGEABLE MESSAGE SIGN
- COVER SIGN

Estimate Of Quantities

7831-06-70

Line	Item	Item Description	Unit	Total	Qty
0002	203.0100	Removing Small Pipe Culverts	EACH	13.000	13.000
0004	203.0220	Removing Structure (structure) 01. 7831-06-70	EACH	1.000	1.000
0006	204.0110	Removing Asphaltic Surface	SY	115.000	115.000
0008	204.0115	Removing Asphaltic Surface Butt Joints	SY	915.000	915.000
0010	204.0180	Removing Delineators and Markers	EACH	24.000	24.000
0012	205.0100	Excavation Common	CY	22.000	22.000
0014	208.0100	Borrow	CY	875.000	875.000
0016	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 7831-06-70	EACH	1.000	1.000
0018	213.0100	Finishing Roadway (project) 01. 7831-06-70	EACH	1.000	1.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,300.000	3,300.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,180.000	2,180.000
0024	325.0100	Pulverize and Relay	SY	38,500.000	38,500.000
0026	455.0605	Tack Coat	GAL	1,900.000	1,900.000
0028	460.2000	Incentive Density HMA Pavement	DOL	5,560.000	5,560.000
0030	460.5223	HMA Pavement 3 LT 58-28 S	TON	4,880.000	4,880.000
0032	460.5244	HMA Pavement 4 LT 58-34 S	TON	3,800.000	3,800.000
0034	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	8.000	8.000
0036	465.0315	Asphaltic Flumes	SY	42.000	42.000
0038	521.6115	Culvert Pipe Corrugated Steel Aluminum Coated 15-Inch	LF	32.000	32.000
0040	521.6118	Culvert Pipe Corrugated Steel Aluminum Coated 18-Inch	LF	88.000	88.000
0042	521.6121	Culvert Pipe Corrugated Steel Aluminum Coated 21-Inch	LF	34.000	34.000
0044	521.6124	Culvert Pipe Corrugated Steel Aluminum Coated 24-Inch	LF	100.000	100.000
0046	521.6130	Culvert Pipe Corrugated Steel Aluminum Coated 30-Inch	LF	52.000	52.000
0048	521.6136	Culvert Pipe Corrugated Steel Aluminum Coated 36-Inch	LF	52.000	52.000
0050	521.6142	Culvert Pipe Corrugated Steel Aluminum Coated 42-Inch	LF	50.000	50.000
0052	521.6184	Culvert Pipe Corrugated Steel Aluminum Coated 84-Inch	LF	60.000	60.000
0054	521.6724	Pipe Arch Corrugated Steel Aluminum Coated 24x18-Inch	LF	80.000	80.000
0056	521.6757	Pipe Arch Corrugated Steel Aluminum Coated 57x38-Inch	LF	106.000	106.000
0058	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	734.000	734.000
0060	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7831-06-70	EACH	1.000	1.000
0062	619.1000	Mobilization	EACH	1.000	1.000
0064	624.0100	Water	MGAL	82.000	82.000
0066	625.0500	Salvaged Topsoil	SY	4,500.000	4,500.000
0068	628.1504	Silt Fence	LF	2,400.000	2,400.000
0070	628.1520	Silt Fence Maintenance	LF	4,800.000	4,800.000
0072	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0076	628.2008	Erosion Mat Urban Class I Type B	SY	4,500.000	4,500.000
0078	628.7504	Temporary Ditch Checks	LF	200.000	200.000
0080	628.7555	Culvert Pipe Checks	EACH	90.000	90.000
0082	629.0210	Fertilizer Type B	CWT	4.000	4.000
0084	630.0120	Seeding Mixture No. 20	LB	135.000	135.000
0086	630.0200	Seeding Temporary	LB	135.000	135.000
0088	633.5200	Markers Culvert End	EACH	24.000	24.000
0090	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	22.000	22.000
0092	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	22.000	22.000
0094	637.1210	Signs Type I Reflective H	SF	42.430	42.430
0096	637.2230	Signs Type II Reflective F	SF	268.110	268.110
0098	638.2102	Moving Signs Type II	EACH	4.000	4.000

Estimate Of Quantities

7831-06-70

Line	Item	Item Description	Unit	Total	Qty
0100	638.2602	Removing Signs Type II	EACH	41.000	41.000
0102	638.3000	Removing Small Sign Supports	EACH	41.000	41.000
0104	642.5001	Field Office Type B	EACH	1.000	1.000
0106	643.0300	Traffic Control Drums	DAY	670.000	670.000
0108	643.0420	Traffic Control Barricades Type III	DAY	790.000	790.000
0110	643.0705	Traffic Control Warning Lights Type A	DAY	1,452.000	1,452.000
0112	643.0900	Traffic Control Signs	DAY	1,782.000	1,782.000
0114	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
0116	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0118	643.3105	Temporary Marking Line Paint 4-Inch	LF	18,770.000	18,770.000
0120	643.5000	Traffic Control	EACH	1.000	1.000
0122	646.1020	Marking Line Epoxy 4-Inch	LF	47,070.000	47,070.000
0124	648.0100	Locating No-Passing Zones	MI	2.620	2.620
0126	650.5000	Construction Staking Base	LF	3,190.000	3,190.000
0128	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	734.000	734.000
0130	650.6000	Construction Staking Pipe Culverts	EACH	8.000	8.000
0132	650.8000	Construction Staking Resurfacing Reference	LF	13,810.000	13,810.000
0134	650.9911	Construction Staking Supplemental Control (project) 01. 7831-06-70	EACH	1.000	1.000
0136	650.9920	Construction Staking Slope Stakes	LF	1,880.000	1,880.000
0138	690.0150	Sawing Asphalt	LF	175.000	175.000
0140	740.0440	Incentive IRI Ride	DOL	10,456.000	10,456.000
0142	ASP.1.1PA	On-the-Job Training Pre-Apprentice at \$5.00/HR	HRS	300.000	300.000
0144	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

3

3

REMOVING SMALL PIPE CULVERTS

Table with columns: STATION, LOCATION, 203.0100 (EACH). Rows include stations 16+34 to 138+00 with locations like CTH M, CROSS and CTH M, RT. Total = 13.

REMOVING STRUCTURE

Table with columns: STATION, LOCATION, DESCRIPTION, 203.0220 (EACH). Row: 106+34 CTH M, CROSS 60"X60' RCCP 1. Total = 1.

REMOVING ASPHALT ITEMS

Table with columns: STATION - STATION, LOCATION, 204.0110 REMOVING ASPHALTIC SURFACE (SY), 204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS (SY). Rows include stations 10+00 to 248+03. Total = 115 SY, 915 SY.

REMOVING DELINEATORS AND MARKERS

Table with columns: STATION, LOCATION, TYPE, 204.0180 (EACH). Rows include stations 16+34 to 138+00 with types like CULVERT MARKERS and CULVERT MARKERS. Total = 24.

EARTHWORK

Table with columns: STATION - STATION, LOCATION, 205.0100 EXCAVATION COMMON (CY), 208.0100 BORROW (CY). Rows include stations 15+50 to 137+50. Totals = 22 CY, 875 CY.

BASE AGGREGATE DENSE

Table with columns: STATION - STATION, LOCATION, 305.0110 B.A.D. 3/4-INCH (TON), 305.0120 B.A.D. 1 1/4-INCH (TON), 624.0100 WATER (MGAL). Rows include stations 10+00 to 143+54. Total = 3,300 TON, 2,180 TON, 82 MGAL.

ASPHALT ITEMS

Table with columns: STATION - STATION, LOCATION, 211.0101 PREPARE FOUNDATION FOR ASPHALTIC PAVING (EACH), 325.0100 PULVERIZE AND RELAY (SY), 455.0605 TACK COAT (GAL), 460.5223 HMA PAVEMENT 3 LT 58-28 S (TON), 460.5244 HMA PAVEMENT 4 LT 58-34 S (TON), 465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (TON), 465.0315 ASPHALTIC FLUMES (SY). Rows include stations 10+00 to 127+67. Totals = 1 EACH, 38,500 SY, 1,900 GAL, 4,880 TON, 3,800 TON, 8 TON, 42 SY.

CULVERT PIPES

STATION	LOCATION	521.6115 CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 15-INCH (LF)	521.6118 CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 18-INCH (LF)	521.6121 CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 21-INCH (LF)	521.6124 CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 24-INCH (LF)	521.6130 CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 30-INCH (LF)	521.6136 CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 36-INCH (LF)	521.6142 CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 42-INCH (LF)	521.6184 CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 84-INCH (LF)	521.6724 PIPE ARCH CORRUGATED STEEL ALUMINUM COATED 24X18-INCH (LF)	521.6757 PIPE ARCH CORRUGATED STEEL ALUMINUM COATED 57X38-INCH (LF)
16+34	CTH M, CROSS	-	-	-	50	-	-	-	-	-	-
18+75	CTH M, CROSS	-	-	-	50	-	-	-	-	-	-
32+26	CTH M, RT	32	-	-	-	-	-	-	-	-	-
41+85	CTH M, LT	-	-	34	-	-	-	-	-	-	-
44+65	CTH M, CROSS	-	-	-	-	-	-	-	-	-	50
82+71	CTH M, CROSS	-	-	-	-	-	52	-	-	-	-
97+16	CTH M, RT	-	-	-	-	-	-	-	-	80	-
98+02	CTH M, CROSS	-	-	-	-	52	-	-	-	-	-
101+24	CTH M, RT	-	24	-	-	-	-	-	-	-	-
106+34	CTH M, CROSS	-	-	-	-	-	-	-	60	-	-
115+18	CTH M, LT	-	26	-	-	-	-	-	-	-	-
116+23	CTH M, CROSS	-	-	-	-	-	-	-	-	-	56
116+62	CTH M, LT	-	38	-	-	-	-	-	-	-	-
138+00	CTH M, CROSS	-	-	-	-	-	-	50	-	-	-
TOTALS =		32	88	34	100	52	52	50	60	80	106

CURB & GUTTER

STATION - STATION	LOCATION	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (LF)
21+32 - 24+32	CTH M, RT	282
33+32 - 36+39	CTH M, LT	291
125+90 - 127+67	CTH M, RT	161
TOTALS =		734

PROJECT ITEMS

PROJECT	213.0100 FINISHING ROADWAY (ID: 7831-06-70) (EACH)	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS (ID: 7831-06-70) (EACH)
CTH M	1	1

MOBILIZATION

PROJECT	619.1000 MOBILIZATION (EACH)	628.1905 MOBILIZATIONS EROSION CONTROL (EACH)	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)
CTH M	1	5	5

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 (LF)
16+00	CTH M, RT	10
16+70	CTH M, RT	10
18+20	CTH M, RT	10
18+80	CTH M, RT	10
21+30	CTH M, RT	10
23+00	CTH M, RT	10
32+80	CTH M, RT	10
36+50	CTH M, LT	10
42+50	CTH M, LT	10
82+65	CTH M, RT	10
82+75	CTH M, RT	10
97+95	CTH M, RT	10
98+05	CTH M, RT	10
101+50	CTH M, RT	10
-	UNDISTRIBUTED	60
TOTAL =		200

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 (EACH)
16+34	CTH M, RT	3
18+75	CTH M, RT	3
44+65	CTH M, RT	5
82+71	CTH M, RT	7
98+02	CTH M, RT	5
106+34	CTH M, LT	20
116+23	CTH M, RT	12
138+00	CTH M, RT	8
32+21	CTH M, RT	2
41+68	CTH M, LT	3
96+95	CTH M, RT	4
101+12	CTH M, RT	2
115+05	CTH M, LT	2
116+80	CTH M, LT	2
-	UNDISTRIBUTED	12
TOTAL =		90

MARKERS CULVERT END

STATION	LOCATION	633.5200 (EACH)
16+34	CTH M, LT & RT	2
18+75	CTH M, LT & RT	2
44+65	CTH M, LT & RT	2
51+92	CTH M, LT & RT	2
61+85	CTH M, LT & RT	2
70+93	CTH M, LT & RT	2
82+73	CTH M, LT & RT	2
98+02	CTH M, LT & RT	2
106+34	CTH M, LT & RT	2
111+21	CTH M, LT & RT	2
116+62	CTH M, LT & RT	2
138+00	CTH M, LT & RT	2
TOTAL =		24

FINISHING ITEMS

STATION - STATION	LOCATION	625.0500 SALVAGED TOPSOIL (SY)	628.2008 EROSION MAT URBAN CLASS I TYPE B (SY)	629.0210 FERTILIZER TYPE B (CWT)	630.0120 SEEDING MIXTURE NO. 20 (LB)	630.0200 TEMPORARY SEEDING (LB)
15+50 - 17+00	CTH M, LT & RT	405	405	0.3	12	12
18+00 - 19+50	CTH M, LT & RT	365	365	0.2	11	11
21+30 - 24+30	CTH M, RT	435	435	0.3	12	12
31+50 - 32+75	CTH M, RT	115	115	0.1	3	3
33+30 - 36+40	CTH M, LT	465	465	0.3	13	13
41+85	CTH M, LT	30	30	0.1	1	1
44+00 - 45+50	CTH M, LT & RT	457	457	0.3	14	14
82+25 - 83+25	CTH M, LT & RT	334	334	0.2	10	10
97+16	CTH M, RT	30	30	0.1	1	1
97+50 - 98+50	CTH M, LT & RT	255	255	0.2	8	8
101+24	CTH M, RT	30	30	0.1	1	1
105+70 - 107+00	CTH M, LT & RT	160	160	0.1	5	5
115+18	CTH M, LT	30	30	0.1	1	1
115+75 - 116+70	CTH M, LT & RT	370	370	0.3	11	11
116+62	CTH M, LT	30	30	0.1	1	1
125+90 - 127+65	CTH M, RT	323	323	0.3	9	9
137+50 - 138+50	CTH M, LT & RT	273	273	0.2	8	8
-	UNDISTRIBUTED	393	393	0.7	14	14
TOTALS =		4,500	4,500	4.0	135	135

SILT FENCE

STATION - STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)
15+50 - 17+00	CTH M, LT	165	330
18+00 - 19+50	CTH M, LT	170	340
21+32 - 24+32	CTH M, RT	290	580
33+32 - 36+39	CTH M, LT	160	320
44+00 - 45+50	CTH M, LT	175	350
44+00 - 45+50	CTH M, RT	175	350
82+20 - 83+30	CTH M, LT	125	250
97+50 - 98+50	CTH M, LT	115	230
105+70 - 107+00	CTH M, LT	70	140
105+70 - 107+00	CTH M, RT	85	170
115+75 - 116+50	CTH M, LT	125	250
115+75 - 116+70	CTH M, RT	115	230
125+90 - 127+67	CTH M, RT	175	350
137+50 - 138+50	CTH M, LT	115	230
137+50 - 138+50	CTH M, RT	115	230
-	UNDISTRIBUTED	225	450
TOTALS =		2,400	4,800

LOCATING NO-PASSING ZONES

STATION - STATION	LOCATION	648.0100 (MI)
10+00 - 148+03	CTH M	2.62

SAWING ASPHALT

STATION	LOCATION	690.0150 (LF)
10+00	BEGIN PROJECT	20
DOLOTTA RD	SIDEROAD	44
85+50	CTH M, RT	11
LANGE RD	SIDEROAD	78
242+40	END PROJECT	22
TOTAL =		175

PERMANENT SIGNING

SIGN NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE (IN X IN)	637.1210	637.2230	634.0616	634.0618	638.2602	638.3000	638.2102	SIGN MOUNTED ON SAME POST AS
								SIGNS TYPE I REFLECTIVE (SF)	SIGNS TYPE II REFLECTIVE (SF)	POSTS WOOD 4X6-INCH 16-FT (EACH)	POSTS WOOD 4X6-INCH 18-FT (EACH)	REMOVING SIGNS TYPE II (EACH)	REMOVING SMALL SIGN SUPPORTS (EACH)	MOVING SIGNS TYPE II (EACH)	
1-1R	9+78	CTH M	LEFT	I2-2	COUNTY NAME SIGN	JACKSON CO.	-	-	-	-	-	1	1	-	-
1-2R	9+78	CTH M	LEFT	M1-5A	CTH ROUTE MARKER	M	-	-	-	-	-	-	-	-	1-1R
1-3	9+78	CTH M	LEFT	I2-2	COUNTY NAME SIGN	JACKSON CO.	66X15	6.88	-	2	-	-	-	-	-
1-4	9+78	CTH M	LEFT	M1-5A	CTH ROUTE MARKER	M	24X24	4.00	-	-	-	-	-	-	1-3
1-5R	10+00	CTH M	RIGHT	I2-2	COUNTY NAME SIGN	EAU CLAIRE CO.	-	-	-	-	-	1	1	-	-
1-6R	10+00	CTH M	RIGHT	M1-5A	CTH ROUTE MARKER	M	-	-	-	-	-	-	-	-	1-5R
1-7	10+00	CTH M	RIGHT	I2-2	COUNTY NAME SIGN	EAU CLAIRE CO.	78X15	8.13	-	2	-	-	-	-	-
1-8	10+00	CTH M	RIGHT	M1-5A	CTH ROUTE MARKER	M	24X24	4.00	-	-	-	-	-	-	1-7
1-9R	12+54	CTH M	RIGHT	W1-1R	TURN RIGHT	-	-	-	-	-	1	1	-	-	-
1-10R	12+54	CTH M	RIGHT	W13-1	ADVISORY SPEED PLAQUE	30	-	-	-	-	-	-	-	-	1-9R
1-11R	12+54	CTH M	RIGHT	W14-3	NO PASSING ZONE	-	-	-	-	-	-	-	-	-	1-9R
1-12	12+55	CTH M	RIGHT	W14-3	NO PASSING ZONE	-	48X36	-	5.56	-	1	-	-	-	-
1-13R	14+74	CTH M	RIGHT	W-SIGN	HORSE DRAWN VEHICLES	-	-	-	-	-	1	1	-	-	-
1-14	15+00	CTH M	RIGHT	W1-1R	TURN RIGHT	-	36X36	-	9.00	-	1	-	-	-	-
1-15	15+00	CTH M	RIGHT	W13-1	ADVISORY SPEED PLAQUE	30	18X18	-	2.25	-	-	-	-	-	1-15
1-16R	16+23	CTH M	LEFT	W14-3	NO PASSING ZONE	-	-	-	-	-	1	1	-	-	-
1-17	16+25	CTH M	LEFT	W14-3	NO PASSING ZONE	-	48X36	-	5.56	-	1	-	-	-	-
1-18	17+00	CTH M	RIGHT	W11-14	AMISH BUGGIES	-	36X36	-	9.00	-	1	-	-	-	-
2-1R	22+00	CTH M	LEFT	W1-6	ONE DIRECTIONAL ARROW	-	-	-	-	-	1	1	-	-	-
2-2	22+00	CTH M	LEFT	W1-6	ONE DIRECTIONAL ARROW	-	48X24	-	8.00	1	-	-	-	-	-
2-3R	23+73	CTH M	LEFT	W1-6	ONE DIRECTIONAL ARROW	-	-	-	-	-	1	1	-	-	-
2-4	23+75	CTH M	LEFT	W1-6	ONE DIRECTIONAL ARROW	-	48X24	-	8.00	1	-	-	-	-	-
2-5R	24+66	CTH M	RIGHT	W-SIGN	CAUTION CHILDREN	-	-	-	-	-	1	1	-	-	-
2-6	27+00	CTH M	RIGHT	W1-1L	TURN LEFT	-	36X36	-	9.00	-	1	-	-	-	-
2-7	27+00	CTH M	RIGHT	W13-1	ADVISORY SPEED PLAQUE	25	18X18	-	2.25	-	-	-	-	-	2-6
2-8R	28+76	CTH M	LEFT	W1-1L	TURN LEFT	-	-	-	-	-	1	1	-	-	-
2-9R	28+76	CTH M	LEFT	W13-1	ADVISORY SPEED PLAQUE	30	-	-	-	-	-	-	-	-	2-8R
2-10R	28+82	CTH M	RIGHT	W1-1L	TURN LEFT	-	-	-	-	-	1	1	-	-	-
2-11R	28+82	CTH M	RIGHT	W13-1	ADVISORY SPEED PLAQUE	30	-	-	-	-	-	-	-	-	2-10R
2-12	30+60	CTH M	LEFT	W1-1L	TURN LEFT	-	36X36	-	9.00	-	1	-	-	-	-
2-13	30+60	CTH M	LEFT	W13-1	ADVISORY SPEED PLAQUE	30	18X18	-	2.25	-	-	-	-	-	-
2-14R	34+37	CTH M	RIGHT	W1-6	ONE DIRECTIONAL ARROW	-	-	-	-	-	1	1	-	-	-
2-15	34+35	CTH M	RIGHT	W1-6	ONE DIRECTIONAL ARROW	-	48X24	-	8.00	1	-	-	-	-	-
2-16	35+50	CTH M	RIGHT	W1-6	ONE DIRECTIONAL ARROW	-	48X24	-	8.00	1	-	-	-	-	-
2-17R	35+54	CTH M	RIGHT	W1-6	ONE DIRECTIONAL ARROW	-	-	-	-	-	1	1	-	-	-
3-1R	39+76	CTH M	LEFT	W-SIGN	CAUTION CHILDREN	-	-	-	-	-	1	1	-	-	-
3-2R	39+82	CTH M	RIGHT	W2-2L	SIDE ROAD LEFT	-	-	-	-	-	1	1	-	-	-
3-3	39+85	CTH M	RIGHT	W2-2L	SIDE ROAD LEFT	-	30X30	-	6.25	-	1	-	-	-	-
3-4R	40+91	CTH M	RIGHT	W14-3	NO PASSING ZONE	-	-	-	-	-	1	1	-	-	-
3-5	40+95	CTH M	RIGHT	W14-3	NO PASSING ZONE	-	48X36	-	5.56	-	1	-	-	-	-
3-6	43+70	CTH M	LEFT	W1-1R	TURN RIGHT	-	36X36	-	9.00	-	1	-	-	-	-
3-7	43+70	CTH M	LEFT	W13-1	ADVISORY SPEED PLAQUE	25	18X18	-	2.25	-	-	-	-	-	3-6
3-8R	45+40	CTH M	LEFT	W1-1R	TURN RIGHT	-	-	-	-	-	1	1	-	-	-
3-9R	45+40	CTH M	LEFT	W13-1	ADVISORY SPEED PLAQUE	30	-	-	-	-	-	-	-	-	3-8R
3-10R	47+06	CTH M	LEFT	R1-1	STOP	-	-	-	-	-	1	1	-	-	-
3-11M	47+06	CTH M	LEFT	-	ROAD NAME	DOLOTTA RD	-	-	-	-	-	-	-	1	3-12
3-12	47+05	CTH M	LEFT	R1-1	STOP	-	30X30	5.18	-	1	-	-	-	-	-
3-13R	47+30	CTH M	RIGHT	W1-7	TWO DIRECTIONAL ARROW	-	-	-	-	-	1	1	-	-	-
3-14	47+30	CTH M	RIGHT	W1-7	TWO DIRECTIONAL ARROW	-	48X24	-	8.00	1	-	-	-	-	-
4-1R	56+81	CTH M	LEFT	W14-3	NO PASSING ZONE	-	-	-	-	-	1	1	-	-	-
4-2	56+85	CTH M	LEFT	W14-3	NO PASSING ZONE	-	48X36	-	5.56	-	1	-	-	-	-
5-1R	70+65	CTH M	LEFT	W-SIGN	DANGEROUS DRIVEWAY	-	-	-	-	-	1	1	-	-	-
5-2	70+65	CTH M	LEFT	W7-6	HILL BLOCKS VIEW	-	30X30	-	6.25	-	1	-	-	-	-
5-3	73+85	CTH M	RIGHT	W14-3	NO PASSING ZONE	-	48X36	-	5.56	-	1	-	-	-	-
6-1	83+25	CTH M	LEFT	W14-3	NO PASSING ZONE	-	48X36	-	5.56	-	1	-	-	-	-
6-2R	84+60	CTH M	LEFT	W14-3	NO PASSING ZONE	-	-	-	-	-	1	1	-	-	-
6-3R	87+97	CTH M	RIGHT	S1-1	SCHOOL ZONE	-	-	-	-	-	1	1	-	-	-
6-4R	87+97	CTH M	RIGHT	W16-9	AHEAD	-	-	-	-	-	-	-	-	-	6-3R
6-5	88+00	CTH M	RIGHT	S1-1	SCHOOL ZONE	-	36X36	-	6.75	-	1	-	-	-	-
6-6	88+00	CTH M	RIGHT	W16-9	AHEAD	-	24X12	-	2.00	-	-	-	-	-	6-5
SHEET TOTALS =								28.19	148.61	10	14	22	22	1	

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PERMANENT SIGNING CONTINUED

SIGN NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE (IN X IN)	637.1210	637.2230	634.0616	634.0618	638.2602	638.3000	638.2102	SIGN MOUNTED ON SAME POST AS
								SIGNS TYPE I REFLECTIVE (SF)	SIGNS TYPE II REFLECTIVE (SF)	POSTS WOOD 4X6-INCH 16-FT (EACH)	POSTS WOOD 4X6-INCH 18-FT (EACH)	REMOVING SIGNS TYPE II (EACH)	REMOVING SMALL SIGN SUPPORTS (EACH)	MOVING SIGNS TYPE II (EACH)	
6-7R	96+86	CTH M	RIGHT	W2-2L	SIDE ROAD LEFT	-	-	-	-	-	-	1	1	-	-
6-8	96+90	CTH M	RIGHT	W2-2L	SIDE ROAD LEFT	-	30X30	-	6.25	-	1	-	-	-	-
7-1R	104+35	CTH M	LEFT	S1-1	SCHOOL ZONE	-	-	-	-	-	-	1	1	-	-
7-2R	104+35	CTH M	LEFT	W16-9	AHEAD	-	-	-	-	-	-	-	-	-	7-1R
7-3	104+35	CTH M	LEFT	S1-1	SCHOOL ZONE	-	36X36	-	6.75	1	-	-	-	-	-
7-4	104+35	CTH M	LEFT	W16-9	AHEAD	-	24X12	-	2.00	-	-	-	-	-	7-3
7-5	104+75	CTH M	LEFT	R1-1	STOP	-	30X30	5.18	-	1	-	-	-	-	-
7-6M	104+75	CTH M	LEFT	-	ROAD NAME	YODER RD	-	-	-	-	-	-	-	1	7-5
7-7R	104+75	CTH M	LEFT	R1-1	STOP	-	-	-	-	-	-	1	1	-	-
8-1R	112+55	CTH M	LEFT	W2-2R	SIDE ROAD RIGHT	-	-	-	-	-	-	1	1	-	-
8-2	112+55	CTH M	LEFT	W2-2R	SIDE ROAD RIGHT	-	30X30	-	6.25	-	1	-	-	-	-
8-3	119+60	CTH M	RIGHT	W1-1R	TURN RIGHT	-	36X36	-	9.00	-	1	-	-	-	-
8-4	119+60	CTH M	RIGHT	W13-1	ADVISORY SPEED PLAQUE	30	18X18	-	2.25	-	-	-	-	-	8-5
8-5R	121+34	CTH M	RIGHT	W1-1R	TURN RIGHT	-	-	-	-	-	-	1	1	-	-
8-6R	121+34	CTH M	RIGHT	W13-1	ADVISORY SPEED PLAQUE	25	-	-	-	-	-	-	-	-	8-3R
8-7R	126+16	CTH M	LEFT	W1-6	ONE DIRECTIONAL ARROW	-	-	-	-	-	-	1	1	-	-
8-8	126+50	CTH M	LEFT	W1-6	ONE DIRECTIONAL ARROW	-	48X24	-	8.00	1	-	-	-	-	-
9-1	127+20	CTH M	LEFT	W1-6	ONE DIRECTIONAL ARROW	-	48X24	-	8.00	1	-	-	-	-	-
9-2	128+40	CTH M	LEFT	W5-52L	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
9-3R	128+40	CTH M	LEFT	W5-52L	BRIDGE HASH MARKS	-	-	-	-	-	-	1	1	-	-
9-4	128+43	CTH M	RIGHT	W5-52R	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
9-5R	128+43	CTH M	RIGHT	W5-52R	BRIDGE HASH MARKS	-	-	-	-	-	-	1	1	-	-
9-6R	128+69	CTH M	RIGHT	W5-52L	BRIDGE HASH MARKS	-	-	-	-	-	-	1	1	-	-
9-7	128+69	CTH M	RIGHT	W5-52L	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
9-8R	128+70	CTH M	LEFT	W5-52R	BRIDGE HASH MARKS	-	-	-	-	-	-	1	1	-	-
9-9	128+70	CTH M	LEFT	W5-52R	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
9-10R	129+07	CTH M	RIGHT	W2-2L	SIDE ROAD LEFT	-	-	-	-	-	-	1	1	-	-
9-11	129+10	CTH M	RIGHT	W2-2L	SIDE ROAD LEFT	-	30X30	-	6.25	-	1	-	-	-	-
9-12	134+00	CTH M	LEFT	W1-1L	TURN LEFT	-	36X36	-	9.00	-	1	-	-	-	-
9-13	134+00	CTH M	LEFT	W13-1	ADVISORY SPEED PLAQUE	30	18X18	-	2.25	-	-	-	-	-	9-11
9-13R	134+70	CTH M	LEFT	W1-1L	TURN LEFT	-	-	-	-	-	-	1	1	-	-
9-14R	134+70	CTH M	LEFT	W13-1	ADVISORY SPEED PLAQUE	25	-	-	-	-	-	-	-	-	9-13R
9-15R	136+30	CTH M	RIGHT	W1-1L	TURN LEFT	-	-	-	-	-	-	1	1	-	-
9-16R	136+30	CTH M	RIGHT	W13-1	ADVISORY SPEED PLAQUE	30	-	-	-	-	-	-	-	-	9-15R
9-17R	136+48	CTH M	LEFT	R1-1	STOP	-	-	-	-	-	-	1	1	-	-
9-18M	136+48	CTH M	LEFT	-	ROAD NAME	HORTON RD	-	-	-	-	-	-	-	1	9-19
9-19	136+50	CTH M	LEFT	R1-1	STOP	-	30X30	5.18	-	1	-	-	-	-	-
9-20R	136+66	CTH M	RIGHT	W1-7	TWO DIRECTIONAL ARROW	-	-	-	-	-	-	1	1	-	-
9-21	136+66	CTH M	RIGHT	W1-7	TWO DIRECTIONAL ARROW	-	48X24	-	8.00	1	-	-	-	-	-
9-22	137+90	CTH M	RIGHT	W1-2L	CURVE LEFT	-	36X36	-	9.00	-	1	-	-	-	-
9-23	137+90	CTH M	RIGHT	W13-1	ADVISORY SPEED PLAQUE	35	18X18	-	2.25	-	-	-	-	-	9-22
10-1R	143+90	CTH M	LEFT	W2-2R	SIDE ROAD RIGHT	-	-	-	-	-	-	1	1	-	-
10-2	143+90	CTH M	LEFT	W2-2R	SIDE ROAD RIGHT	-	30X30	-	6.25	-	1	-	-	-	-
10-3	145+45	CTH M	RIGHT	W1-6	ONE DIRECTIONAL ARROW	-	48X24	-	8.00	1	-	-	-	-	-
10-4	145+50	CTH M	RIGHT	W1-6	ONE DIRECTIONAL ARROW	-	48X24	-	8.00	1	-	-	-	-	-
10-5R	145+50	CTH M	RIGHT	W1-6	ONE DIRECTIONAL ARROW	-	-	-	-	-	-	1	1	-	-
10-6M	145+86	CTH M	RIGHT	-	ROAD NAME	LANGE RD	-	-	-	-	-	-	-	1	10-7
10-7R	145+86	CTH M	RIGHT	R1-2	YIELD	-	-	-	-	-	-	1	1	-	-
10-8	145+85	CTH M	RIGHT	R1-2	YIELD	-	36X31	3.88	-	-	1	-	-	-	-
10-9R	146+11	CTH M	RIGHT	W1-6	ONE DIRECTIONAL ARROW	-	-	-	-	-	-	1	1	-	-
SHEET TOTALS =								14.24	119.50	12	8	19	19	3	
PROJECT TOTALS =								42.43	268.11	22	22	41	41	4	

TRAFFIC CONTROL

LOCATION	643.0300 TRAFFIC CONTROL DRUMS (DAY)	643.0420 TRAFFIC CONTROL BARRICADES TYPE III (DAY)	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A (DAY)	643.0900 TRAFFIC CONTROL SIGNS (DAY)	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II (EACH)	643.1050 TRAFFIC CONTROL SIGNS PCMS (DAY)	643.5000 TRAFFIC CONTROL (EACH)	COMMENT
CTH M	-	-	-	-	-	-	1	
USH 10 E.B.	-	-	-	70	1	-	-	<u>DETAIL A: USH 10/CTH M INTERSECTION</u> (1 EA) M1-5A, M; W20-3A
USH 10 E.B.	-	-	-	-	1	-	-	<- AUGUSTA
USH 10 E.B.	-	-	-	70	1	-	-	(1 EA) M1-5A, M; W20-3A
USH 10 W.B.	-	-	-	70	1	-	-	(1 EA) M1-5A, M; W20-3A
USH 10 W.B.	-	-	-	-	1	-	-	AUGUSTA ->
USH 10 W.B.	-	-	-	70	1	-	-	(1 EA) M1-5A, M; W20-3A
CTH M N.B.	-	35	70	35	-	-	-	(1) R11-3, 1 MILE
CTH M S.B.	70	35	70	35	-	14	-	(1) R11-3, 1 MILE
CTH M, N.B.	-	-	-	35	-	-	-	<u>DETAIL B: SOUTH PROJECT LIMITS</u> (1) W20-3A
CTH M, N.B.	-	-	-	35	-	-	-	(1) W20-3C
CTH M, N.B.	-	-	-	35	-	-	-	(1) W20-3D
CTH M, S.B.	-	-	-	35	-	-	-	(1) G20-2A
CTH M	-	70	140	35	-	-	-	(1) R11-4
DOLOTTA RD, E.B.	-	-	-	70	-	-	-	<u>DETAIL C: DOLOTTA RD</u> (1 EA) M1-5A, M; W20-3A
DOLOTTA RD, E.B.	-	-	-	35	-	-	-	(1) W20-3D
DOLOTTA RD, E.B.	-	70	140	35	-	-	-	(1) R11-4
YODER RD, E.B.	-	-	-	35	-	-	-	<u>DETAIL D: YODER RD</u> (1) W20-3D, 500 FT
YODER RD	-	70	140	35	-	-	-	(1) R11-4
HORTON RD	-	70	140	35	-	-	-	<u>DETAIL E: HORTON RD</u> (1) R11-4
HORTON RD, S.B.	-	-	-	35	-	-	-	(1) W20-3D
HORTON RD, S.B.	-	-	-	70	-	-	-	(1 EA) M1-5A, M; W20-3A
LANGE RD, N.B.	-	-	-	70	-	-	-	<u>DETAIL F: LANGE RD</u> (1 EA) M1-5A, M; W20-3A
LANGE RD, N.B.	-	-	-	35	-	-	-	(1) W20-3D
LANGE RD	-	70	140	35	-	-	-	(1) R11-4
CTH M	-	70	140	35	-	-	-	<u>DETAIL F: NORTH PROJECT LIMITS</u> (1) R11-4
CTH M, N.B.	-	-	-	35	-	-	-	(1) G20-2A
CTH M, S.B.	-	-	-	35	-	-	-	(1) W20-3D
CTH M, S.B.	-	-	-	35	-	-	-	(1) W20-3C
CTH M, S.B.	-	-	-	35	-	-	-	(1) W20-3A
CTH M N.B.	-	35	70	35	-	-	-	<u>DETAIL G: CTH M/LIVERMORE INTERSECTION</u> (1) R11-3, 0.5 MILE
CTH M S.B.	70	35	70	35	-	14	-	(1) R11-3, 0.5 MILE
LIVEMORE RD, E.B.	-	-	-	70	-	-	-	(1 EA) M1-5A, M; W20-3A
CTH RR, W.B.	-	-	-	70	-	-	-	(1 EA) M1-5A, M; W20-3A
CTH M, N.B.	-	35	70	35	-	-	-	<u>DETAIL H: USH 12/CTH M INTERSECTION</u> (1) R11-3, 4 MILES
CTH M, S.B.	-	35	70	35	-	-	-	(1) R11-3, 4 MILES
USH 12, E.B.	-	-	-	70	1	-	-	(1 EA) M1-5A, M; W20-3A
USH 12, E.B.	-	-	-	70	1	-	-	(1 EA) M1-5A, M; W20-3A
USH 12, W.B.	-	-	-	70	1	-	-	(1 EA) M1-5A, M; W20-3A
USH 12, W.B.	-	-	-	70	1	-	-	(1 EA) M1-5A, M; W20-3A
CULVERT REPLACEMENTS	-	160	192	32	-	-	-	<u>VARIOUS LOCATIONS</u> (2) R11-2 EACH CULVERT CLOSURE
CURB AND GUTTER	530	-	-	-	-	-	-	-
TOTALS =	670	790	1452	1782	10	28	1	

*ALL TRAFFIC CONTROL COVERING SIGNS TYPE II TO BE COMPLETED
IN ONE CYCLE, FOR THE DURATION OF THE PROJECT

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MARKING LINE PAINT

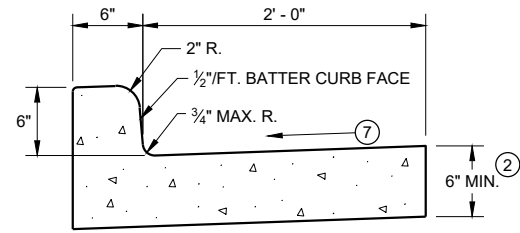
STATION	LOCATION	DESCRIPTION	643.3105		646.1020			
			TEMPORARY MARKING LINE PAINT 4-INCH		MARKING LINE EPOXY 4-INCH			
			SOLID YELLOW (LF)	DASHED YELLOW (LF)	SOLID YELLOW (LF)	DASHED YELLOW (LF)	SOLID WHITE (LF)	SKIP DASH WHITE (LF)
10+00 - 12+75	CTH M, C/L	NB PASSING	275	20	275	62.5	-	-
12+75 - 16+40	CTH M, C/L	PASSING	-	28	-	87.5	-	-
16+40 - 22+20	CTH M, C/L	SB PASSING	580	48	580	150	-	-
22+20 - 36+45	CTH M, C/L	DOUBLE YELLOW	2850	-	2850	-	-	-
36+45 - 41+00	CTH M, C/L	NB PASSING	455	36	455	112.5	-	-
41+00 - 56+50	CTH M, C/L	PASSING	-	124	-	387.5	-	-
56+50 - 65+85	CTH M, C/L	SB PASSING	935	76	935	237.5	-	-
65+85 - 66+20	CTH M, C/L	DOUBLE YELLOW	70	-	70	-	-	-
66+20 - 73+85	CTH M, C/L	NB PASSING	765	60	765	187.5	-	-
73+85 - 83+25	CTH M, C/L	PASSING	-	76	-	237.5	-	-
83+25 - 89+65	CTH M, C/L	SB PASSING	640	52	640	162.5	-	-
89+65 - 148+03	CTH M, C/L	DOUBLE YELLOW	11680	-	11677	-	-	-
10+00 - 46+95	CTH M, LT	WHITE EDGELINES	-	-	-	-	3695	-
46+95 - 104+40	CTH M, LT	WHITE EDGELINES	-	-	-	-	5650	-
105+70 - 136+15	CTH M, LT	WHITE EDGELINES	-	-	-	-	3045	-
137+13 - 148+03	CTH M, LT	WHITE EDGELINES	-	-	-	-	1090	-
10+00 - 145+05	CTH M, RT	WHITE EDGELINES	-	-	-	-	13505	-
145+05 - 146+18	CTH M, RT	WHITE SKIP DASH	-	-	-	-	-	28
146+18 - 148+03	CTH M, RT	WHITE EDGELINES	-	-	-	-	185	-
SUBTOTALS=			18250	520	18247	1625	27170	28
TOTAL =			18770		47070			

CONSTRUCTION STAKING

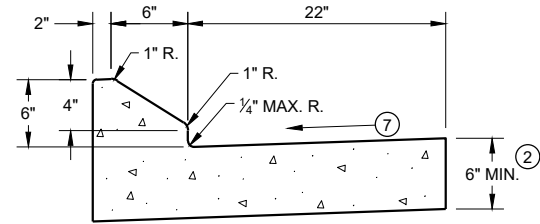
STATION - STATION	LOCATION	650.5000	650.5500	650.6000	650.8000	650.9911	650.9920
		BASE (LF)	CURB & GUTTER (LF)	PIPE CULVERTS (EACH)	RESURFACING REFERENCE (LF)	SUPPLEMENTAL CONTROL (ID: 7831-06-70) (EACH)	SLOPE STAKES (LF)
20+66 - 24+99	CTH M	434	-	-	-	-	-
32+73 - 36+97	CTH M	425	-	-	-	-	-
111+58 - 116+22	CTH M	465	-	-	-	-	-
116+22 - 119+94	CTH M	372	-	-	-	-	-
125+26 - 128+32	CTH M	312	-	-	-	-	-
143+54 - 147+40	CTH M	387	-	-	-	-	-
16+34	CTH M	-	-	1	-	-	-
18+75	CTH M	-	-	1	-	-	-
44+65	CTH M	-	-	1	-	-	-
82+71	CTH M	-	-	1	-	-	-
98+02	CTH M	-	-	1	-	-	-
106+34	CTH M	-	-	1	-	-	-
116+23	CTH M	-	-	1	-	-	-
138+00	CTH M	-	-	1	-	-	-
15+50 - 17+00	CTH M	-	-	-	-	-	150
18+00 - 19+50	CTH M	-	-	-	-	-	150
21+32 - 24+32	CTH M, RT	300	282	-	-	-	300
31+60 - 32+80	CTH M	-	-	-	-	-	120
33+32 - 36+39	CTH M, LT	320	291	-	-	-	310
44+00 - 45+50	CTH M	-	-	-	-	-	150
82+25 - 83+35	CTH M	-	-	-	-	-	100
97+50 - 98+50	CTH M	-	-	-	-	-	100
106+00 - 106+75	CTH M	-	-	-	-	-	75
115+25 - 116+75	CTH M	-	-	-	-	-	150
125+90 - 127+65	CTH M, RT	175	161	-	-	-	175
137+50 - 138+50	CTH M	-	-	-	-	-	100
10+00 - 148+03	CTH M	-	-	-	13,810	1	-
TOTALS =		3190	734	8	13,810	1	1,880

Standard Detail Drawing List

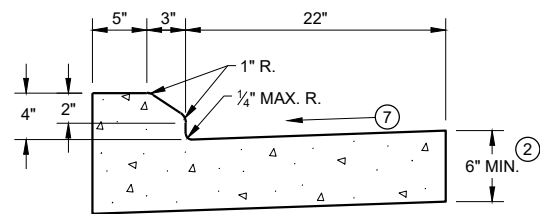
08D01-22A	CONCRETE CURB & GUTTER
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
13C19-03	HMA LONGITUDINAL JOINTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)



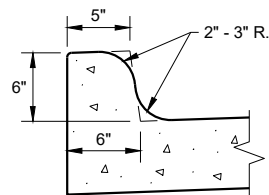
TYPES A^① & D



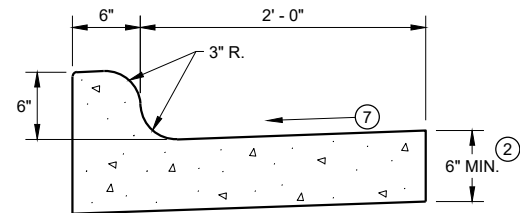
6" SLOPED CURB TYPES G^① & J



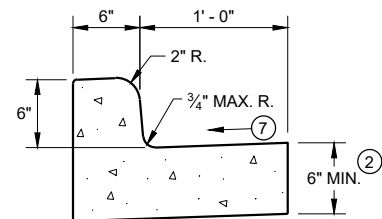
4" SLOPED CURB TYPES G^① & J



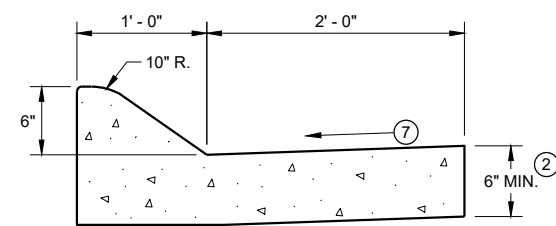
TYPES K^① & L
(OPTIONAL CURB SHAPE)



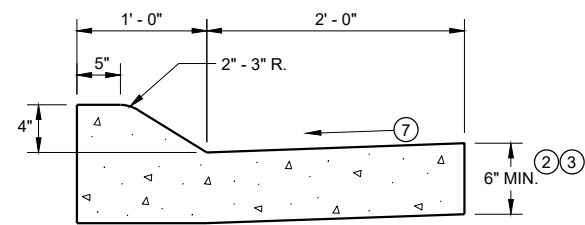
TYPES K^① & L
CONCRETE CURB AND GUTTER 30"



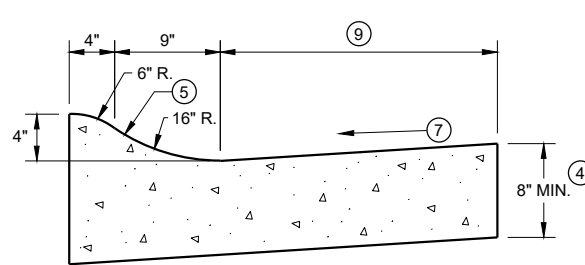
TYPES A^① & D
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A^① & D

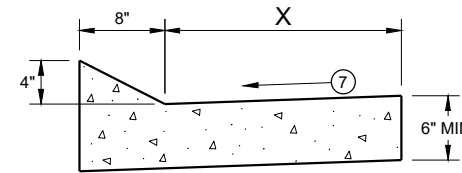


4" SLOPED CURB TYPES A^① & D
CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R^① & T

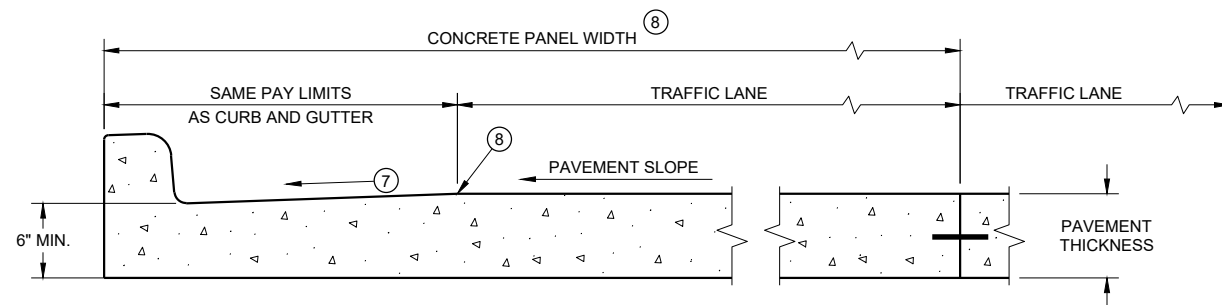
TBT & TBTT	X
30"	22"
36"	28"



TYPES TBT & TBTT^①
CONCRETE CURB AND GUTTER

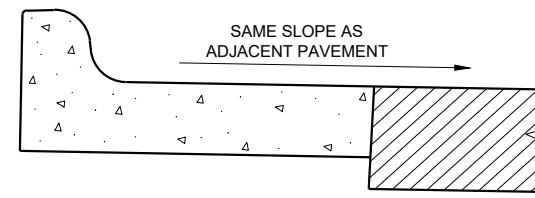
PAVEMENT THICKNESS
AND MAXIMUM CONCRETE
PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER^⑥
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION 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.

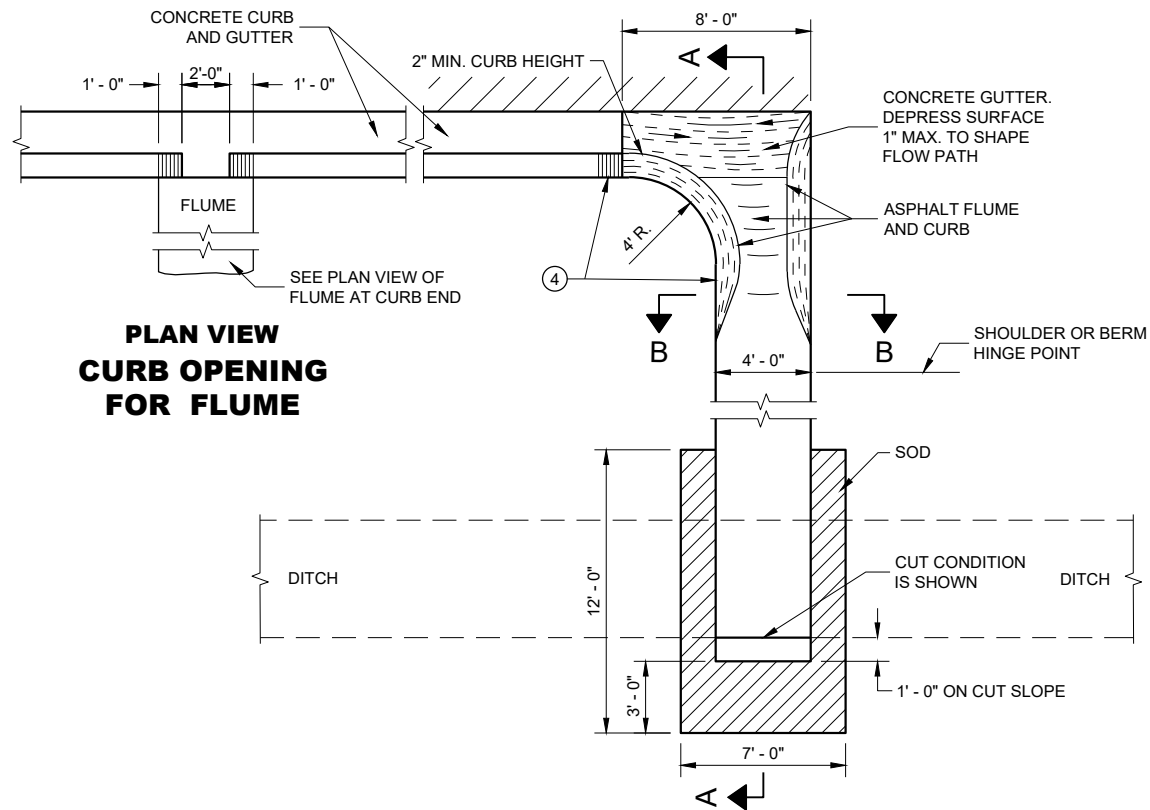
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 GUTTERS TYPES A, G, K, R, AND TBTT.
- 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 USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ 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.
- ⑤ UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
- ⑨ CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



**PLAN VIEW
CURB OPENING
FOR FLUME**

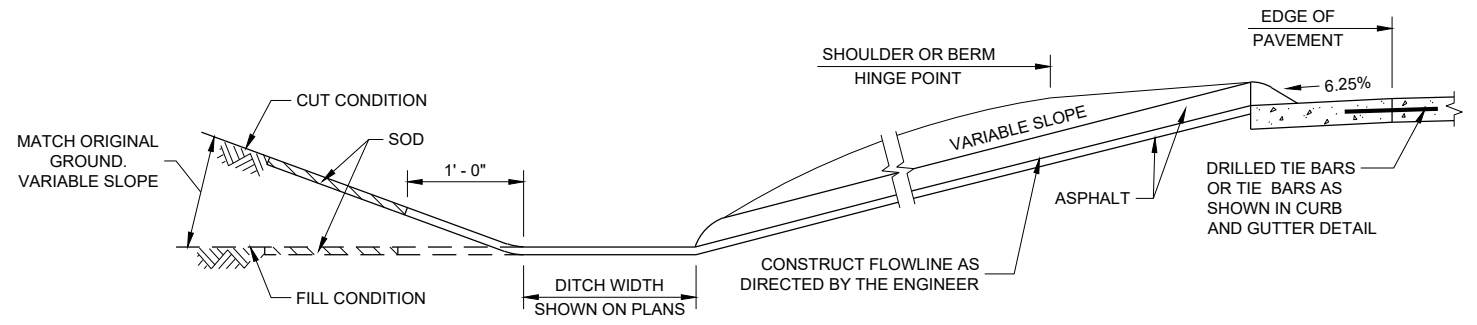
**PLAN VIEW
FLUME AT CURB END**

GENERAL NOTES

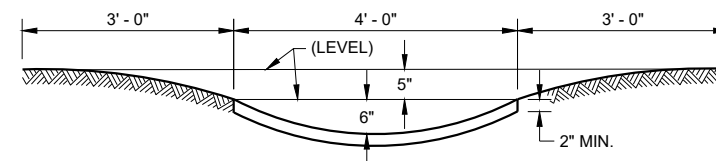
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

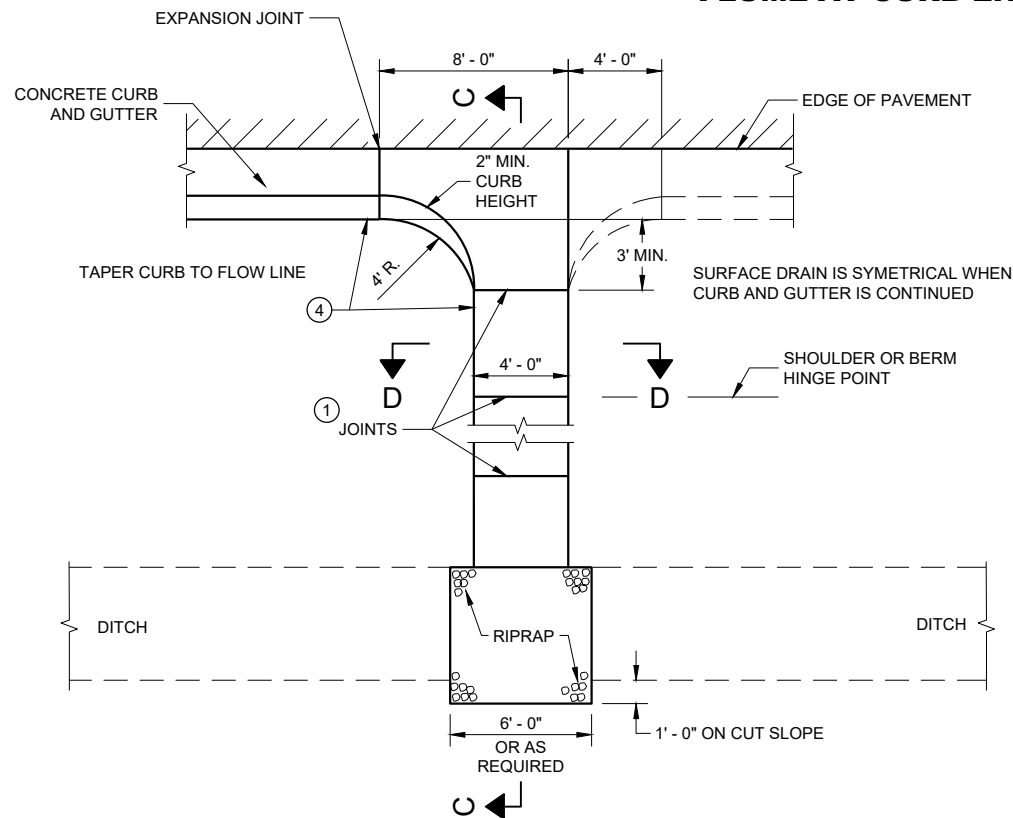
- ① JOINTS SHALL BE 1/8" TO 1/4" WIDE BY 1 1/2" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
- ② GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
- ③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
- ④ ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.



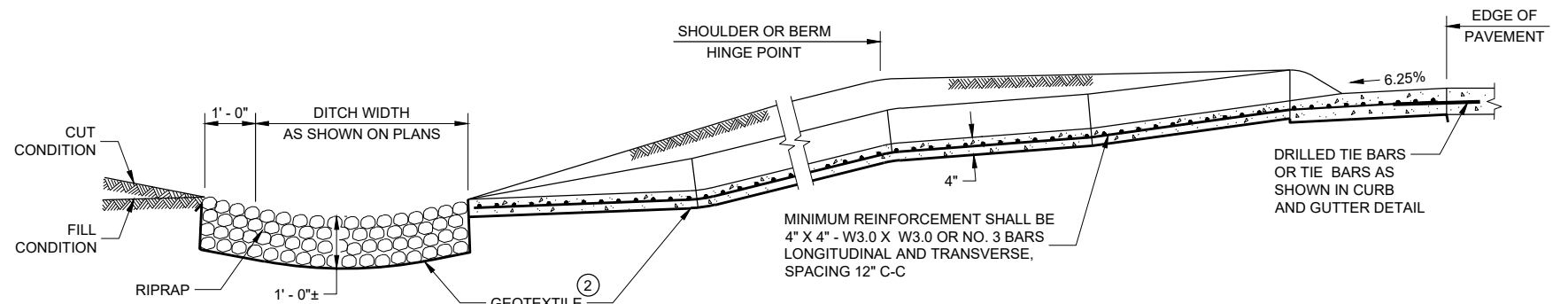
SECTION A - A



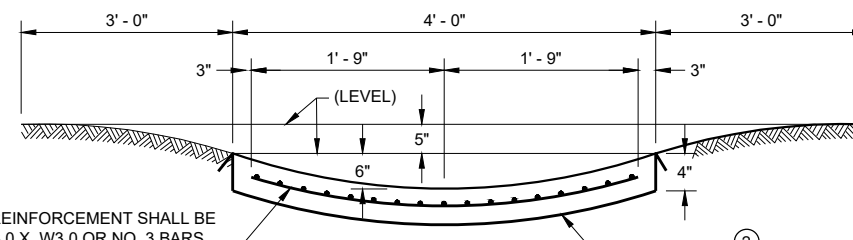
SECTION B - B



**PLAN VIEW
CONCRETE SURFACE DRAIN**



SECTION C - C



SECTION D - D

MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE, SPACING 12" C-C

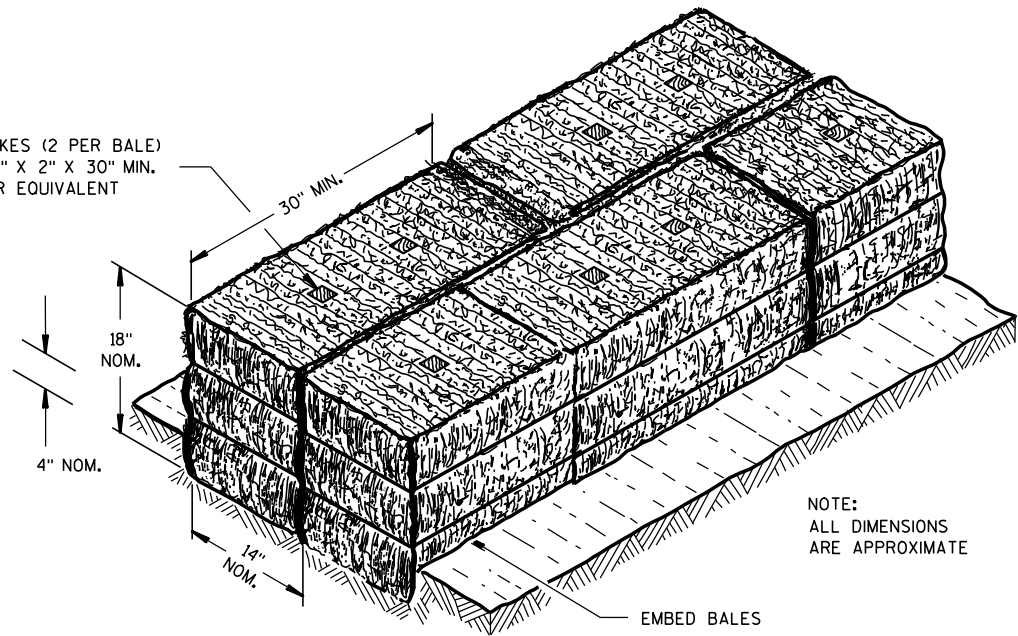
CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER

FHWA

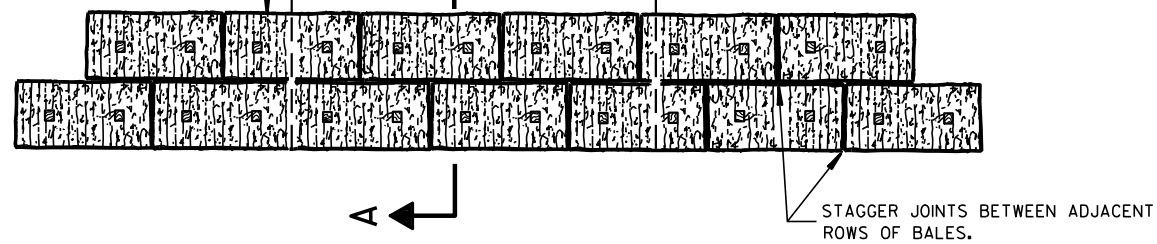
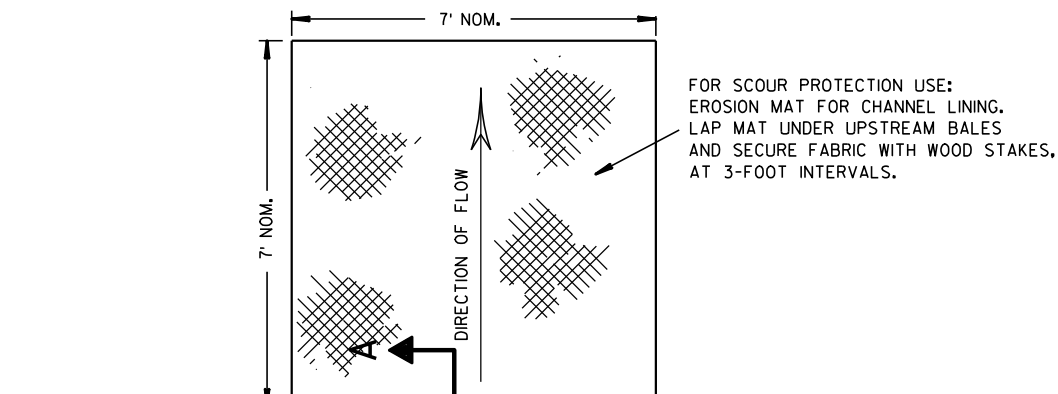
WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



NOTE:
ALL DIMENSIONS
ARE APPROXIMATE

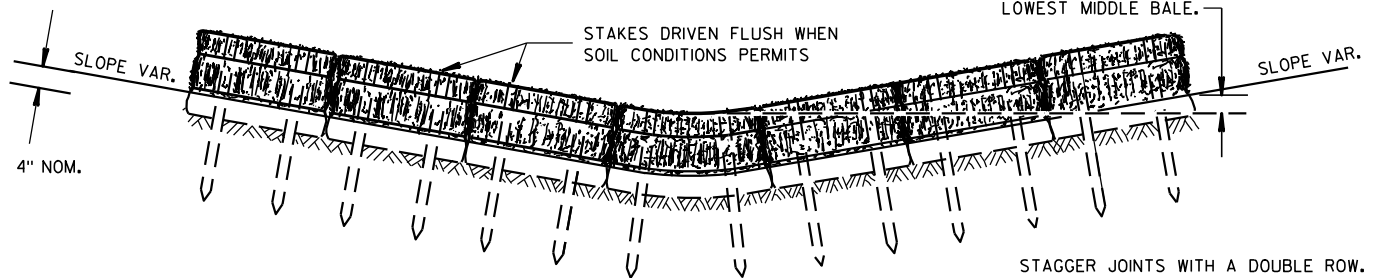
EMBED BALES

SECTION A-A



PLAN VIEW

BOTTOM ELEVATION OF END BALE SHALL BE EQUAL TO OR GREATER THAN TOP OF LOWEST MIDDLE BALE.



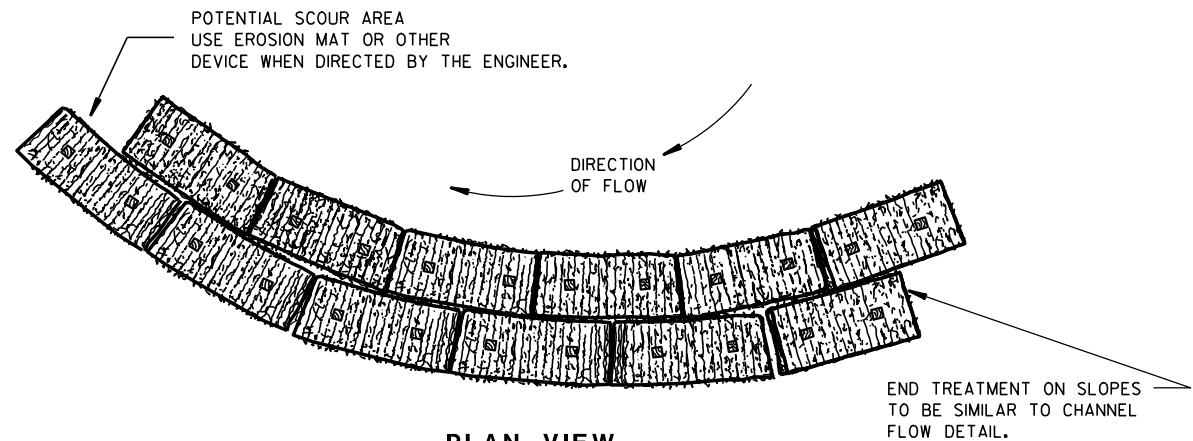
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

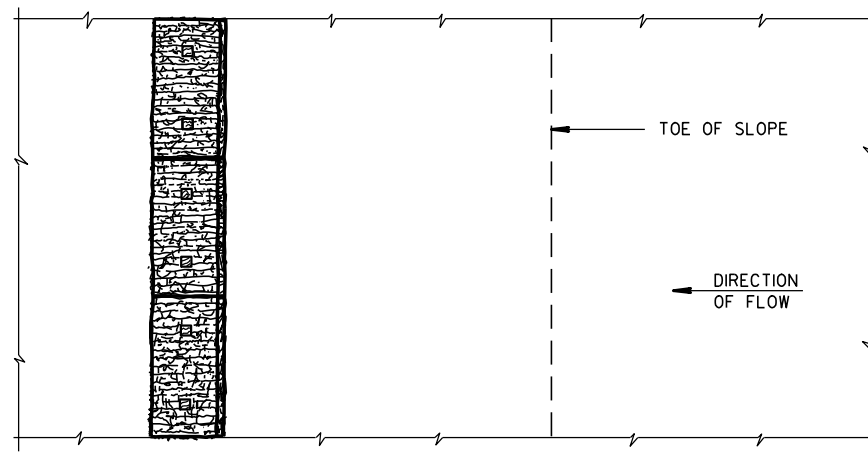
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- 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.

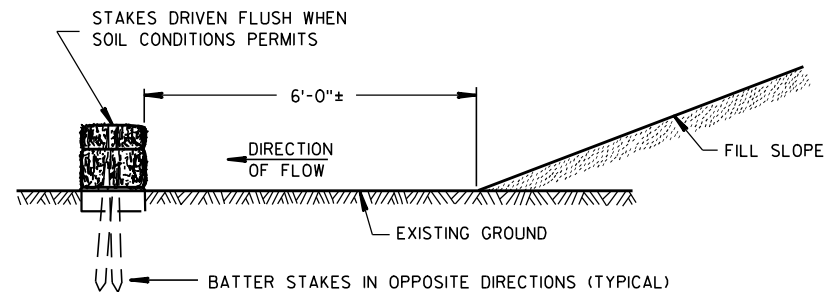


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

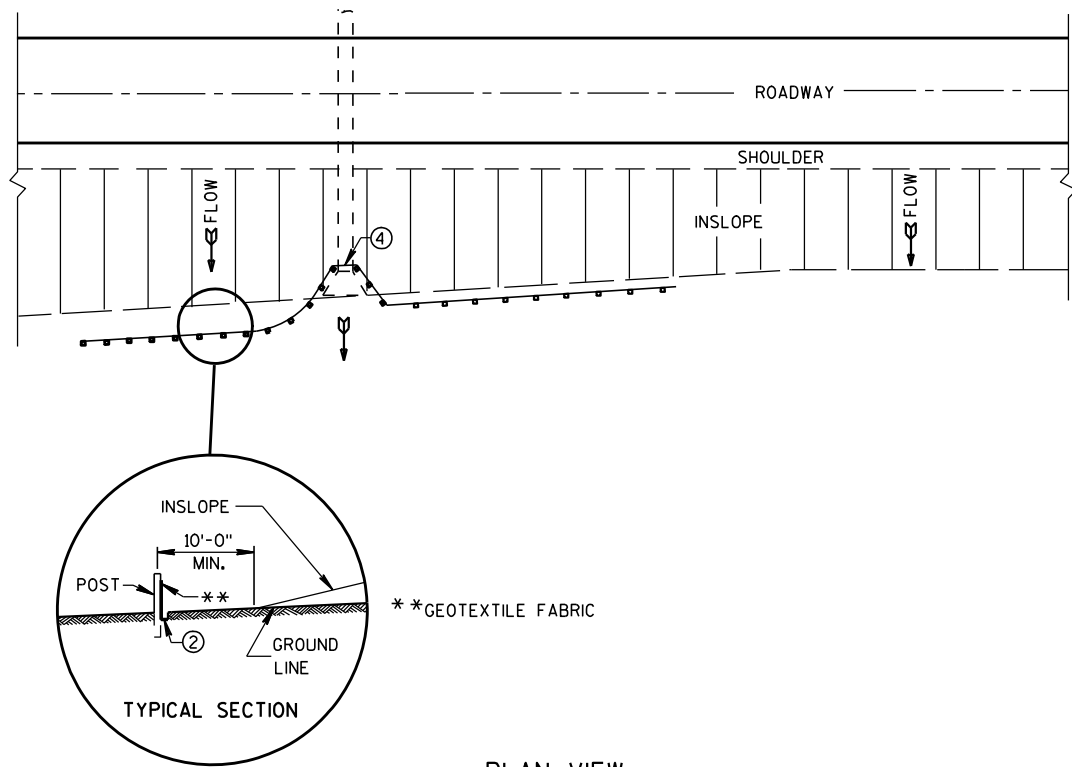
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

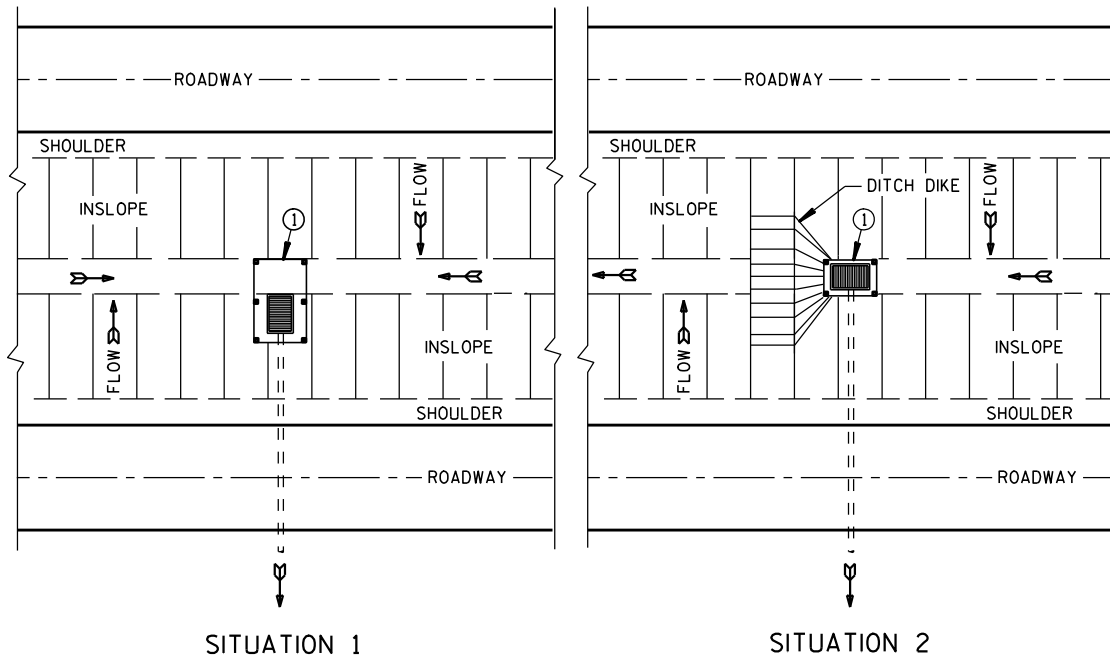
TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 6/04/02 /S/ Beth Canestra
 DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
 FHWA



PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

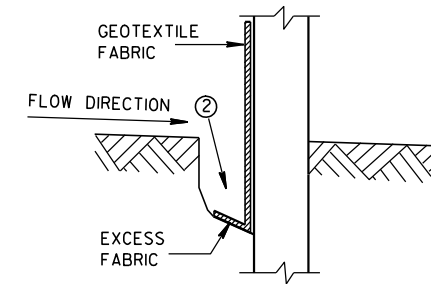


SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

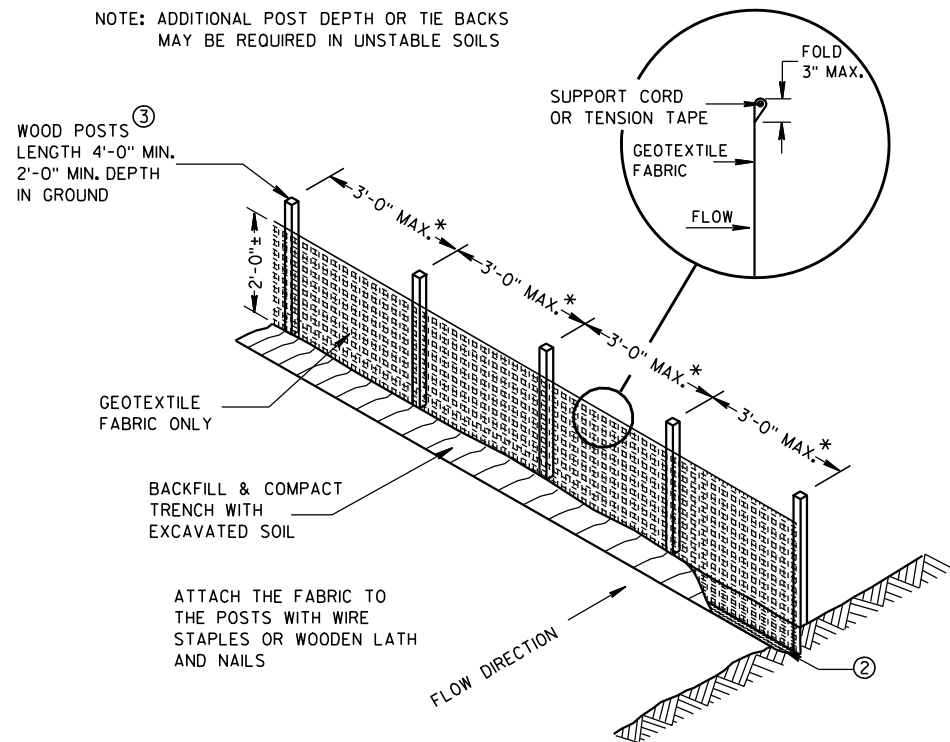
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- 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 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



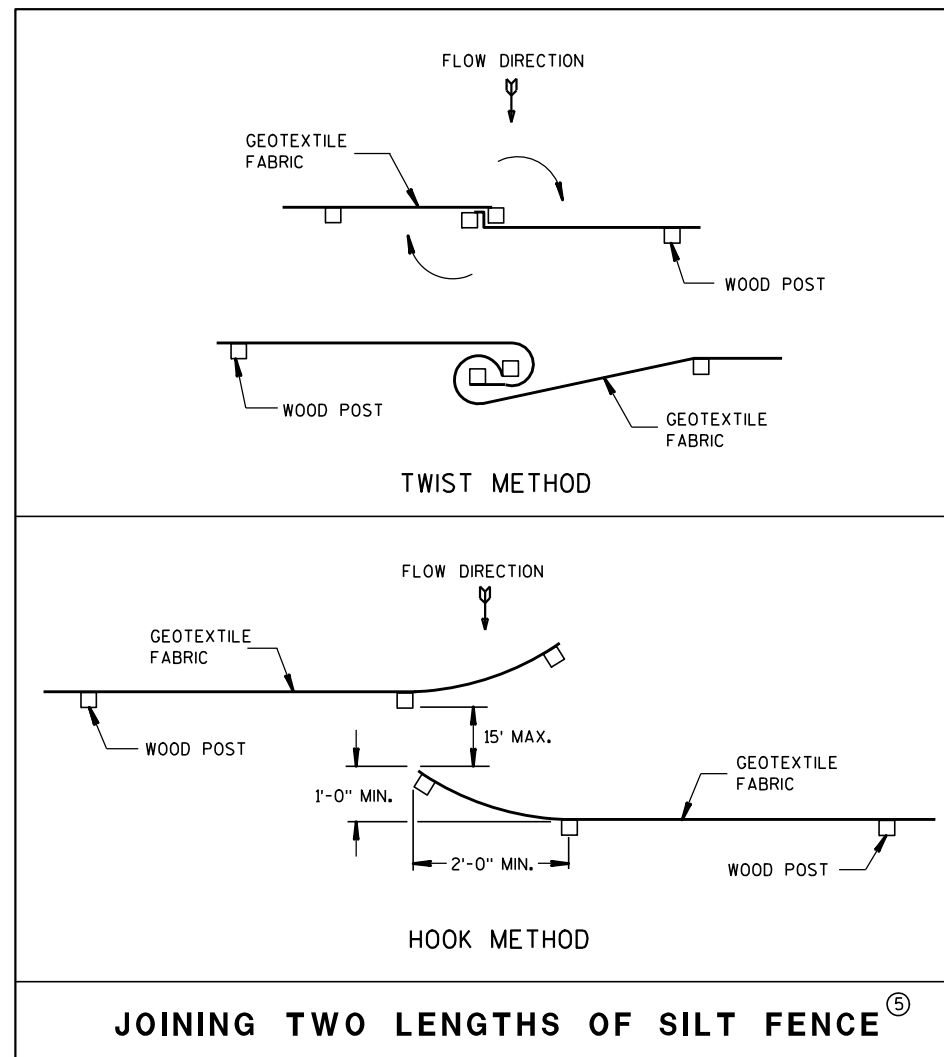
TRENCH DETAIL

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

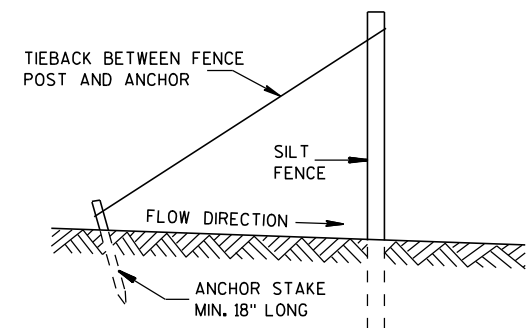


SILT FENCE

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

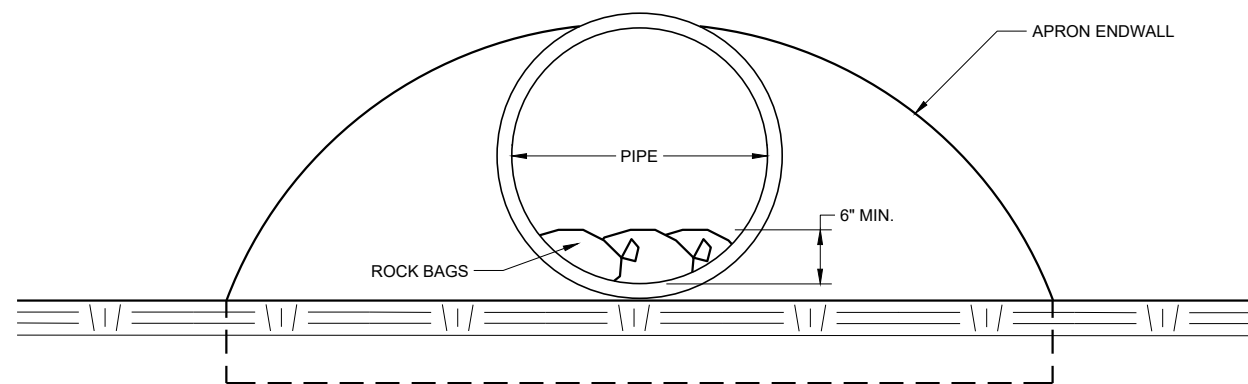


JOINING TWO LENGTHS OF SILT FENCE ⑤

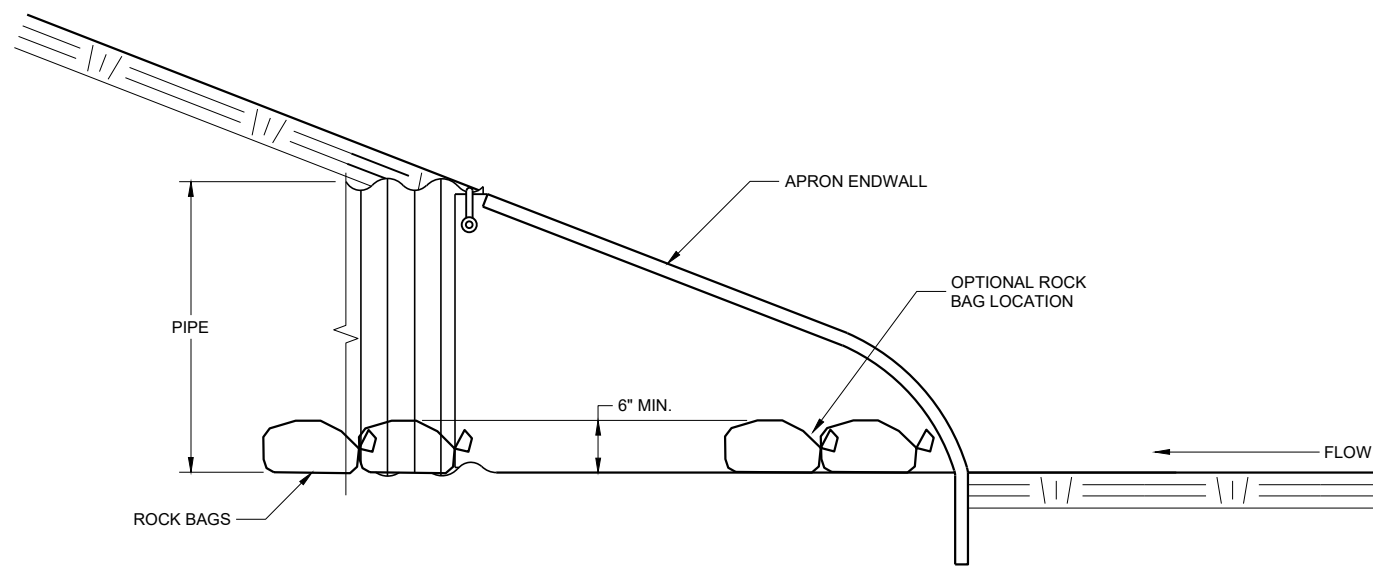


SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Canestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



END VIEW



SIDE VIEW

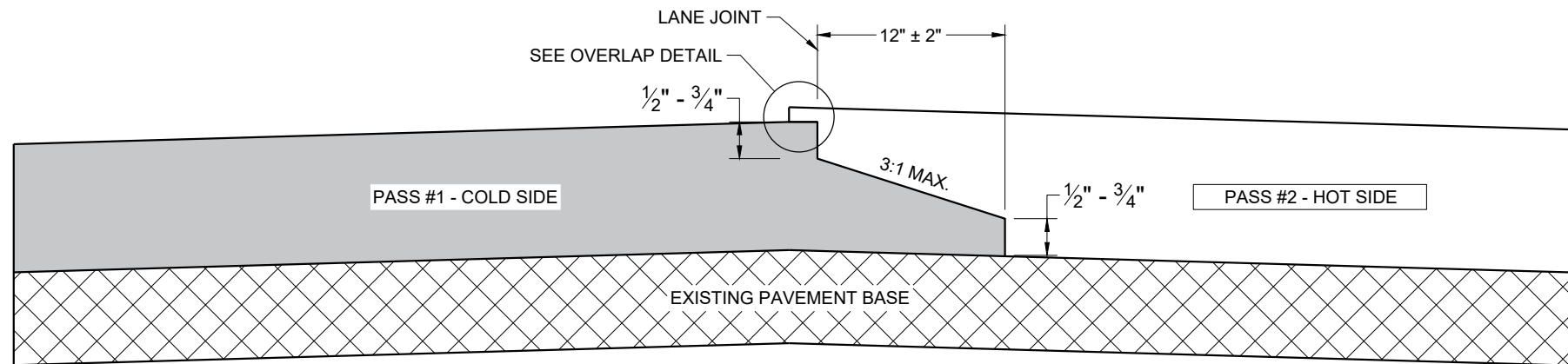
CULVERT PIPE CHECK
 (INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

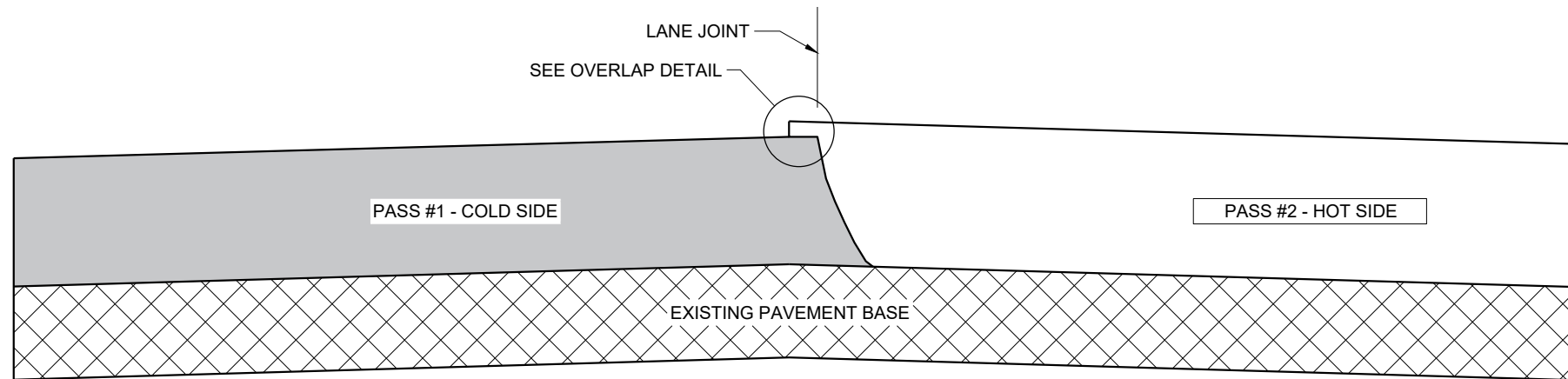
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 May 2019 /S/ Daniel Schave
 DATE EROSION CONTROL ENGINEER

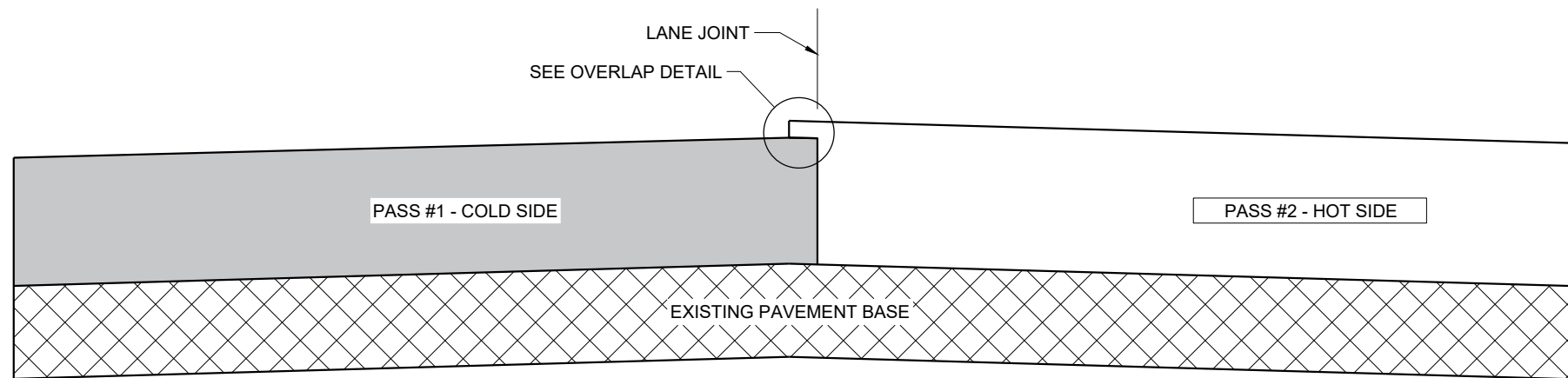
FHWA



**TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT**



**TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT**



**TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)**

GENERAL NOTES

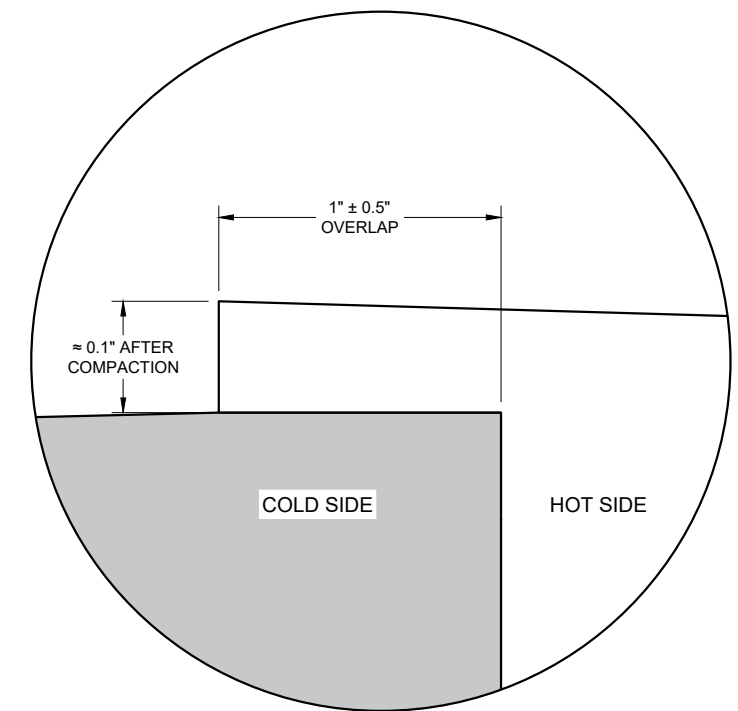
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

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

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

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



OVERLAP DETAIL (TYPICAL)

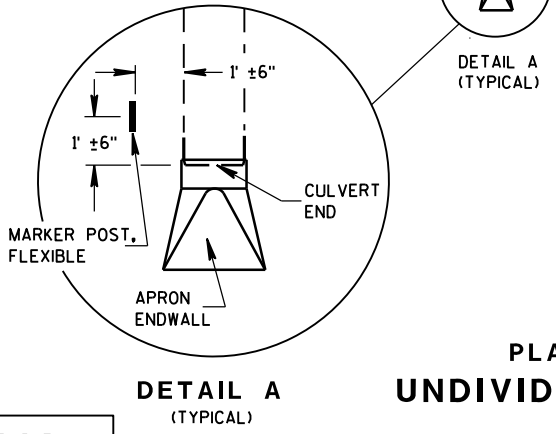
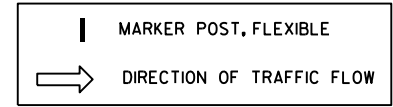
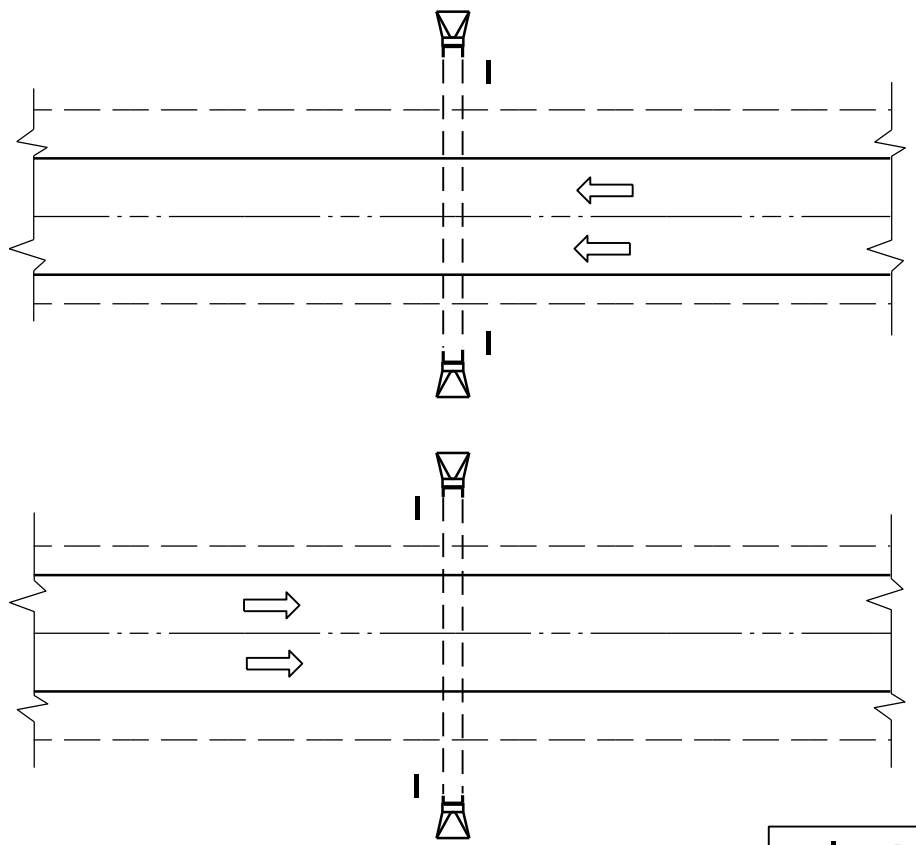
6

6

SDD 13C19 - 03

SDD 13C19 - 03

HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGINEER
FHWA	

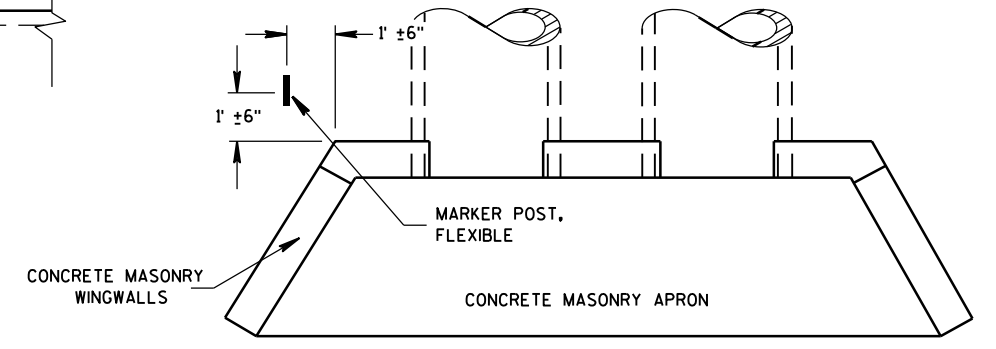


PLAN VIEW UNDIVIDED HIGHWAY

FLEXIBLE MARKER POST LOCATION

GENERAL NOTES

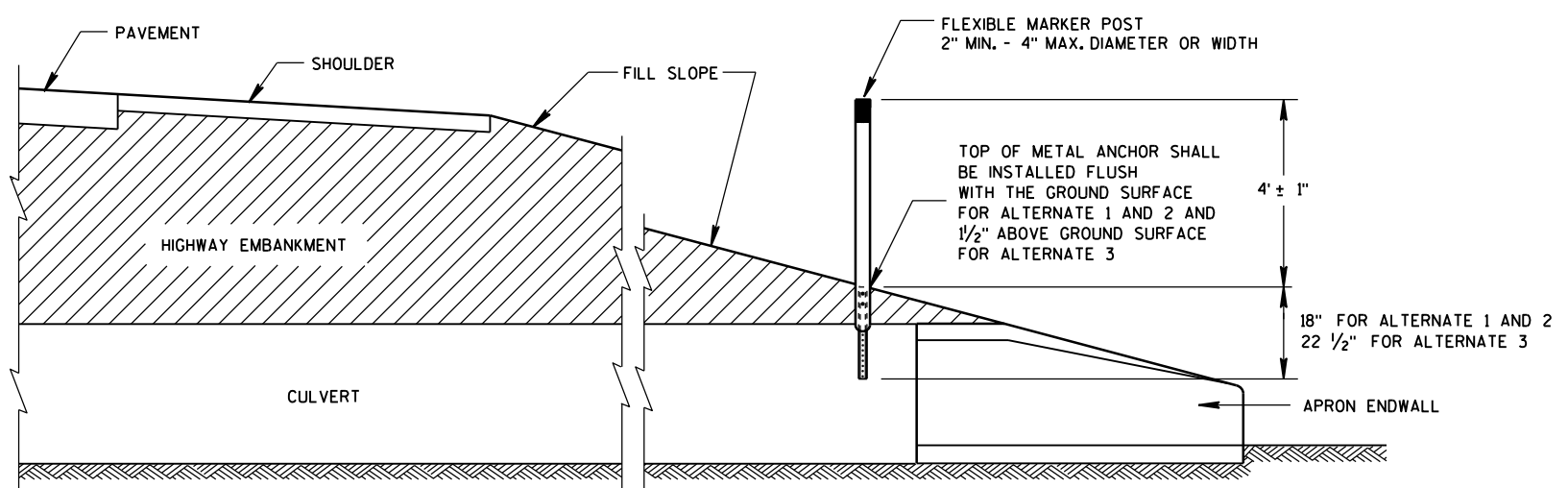
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

6

6



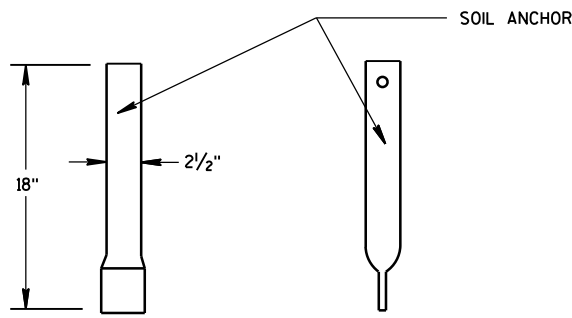
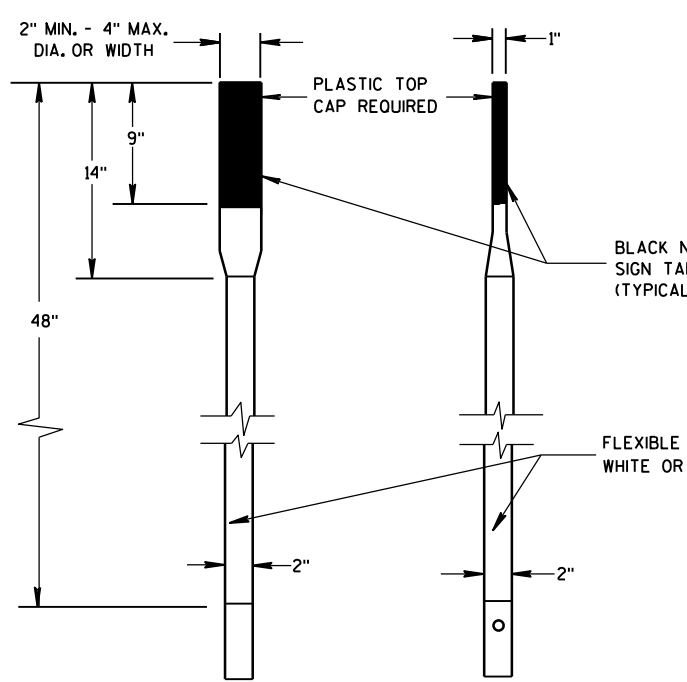
CROSS SECTION FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

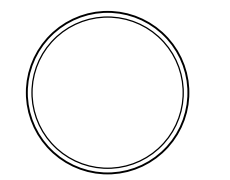
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

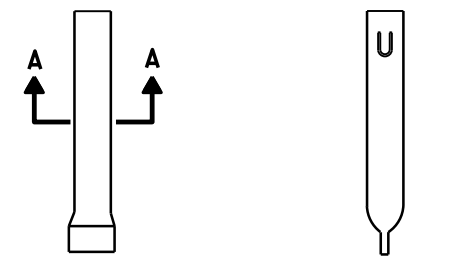
S.D.D. 15 A 3-2a



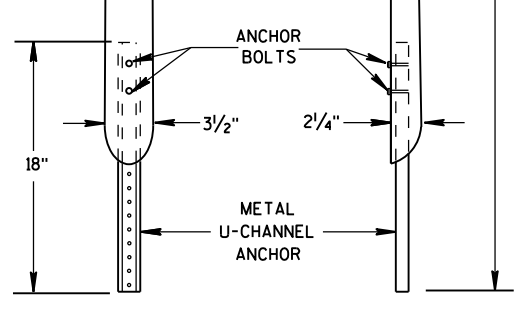
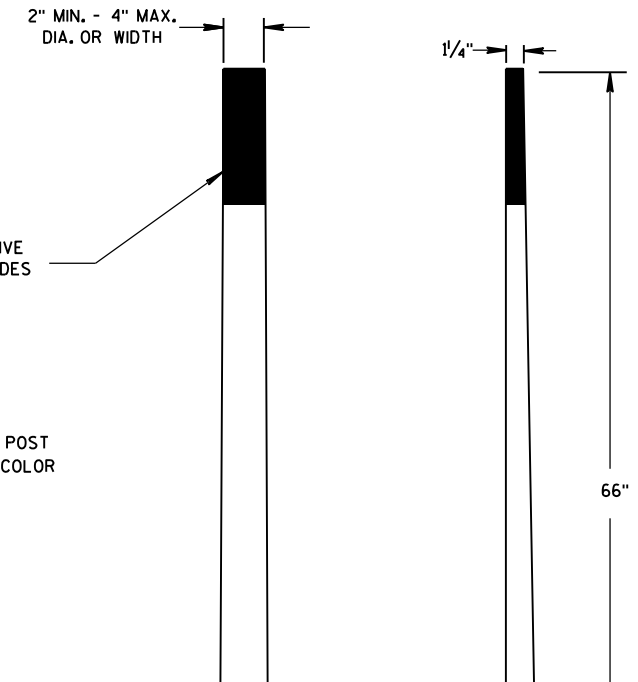
FRONT VIEW SIDE VIEW
ALTERNATE 1



SECTION A-A

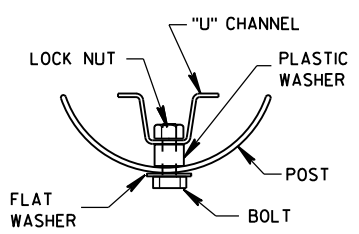


FRONT VIEW SIDE VIEW
ALTERNATE 1

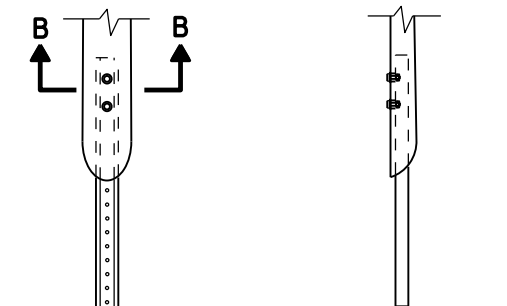


FRONT VIEW SIDE VIEW
ALTERNATE 2

FLEXIBLE MARKER POSTS

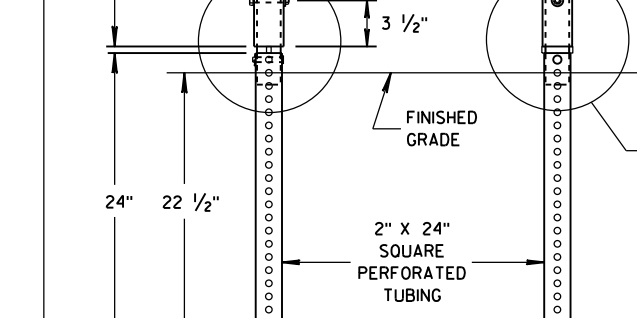
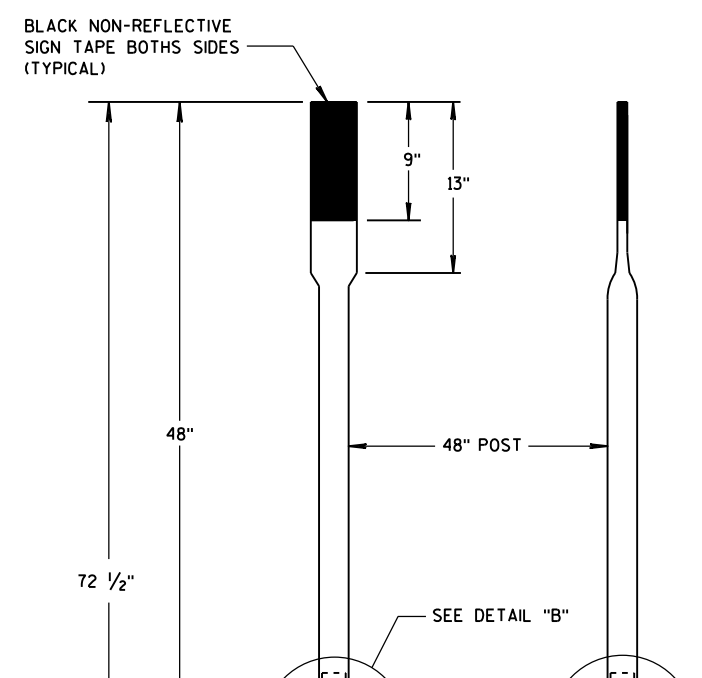


SECTION B-B

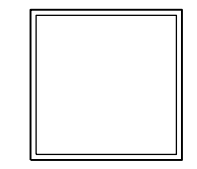


FRONT VIEW SIDE VIEW
ALTERNATE 2

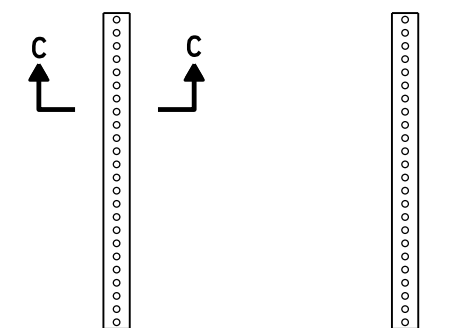
FLEXIBLE MARKER POST ANCHORS



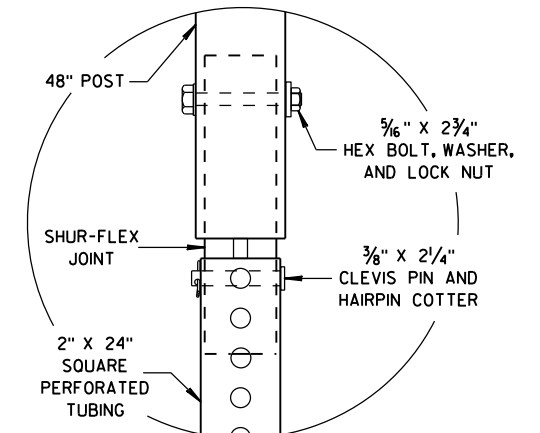
FRONT VIEW SIDE VIEW
ALTERNATE 3



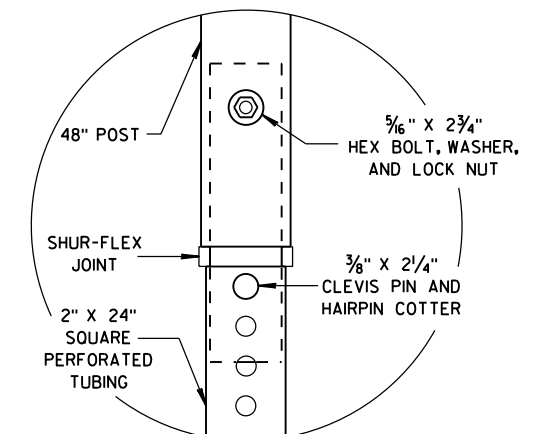
SECTION C-C



FRONT VIEW SIDE VIEW
ALTERNATE 3



DETAIL B

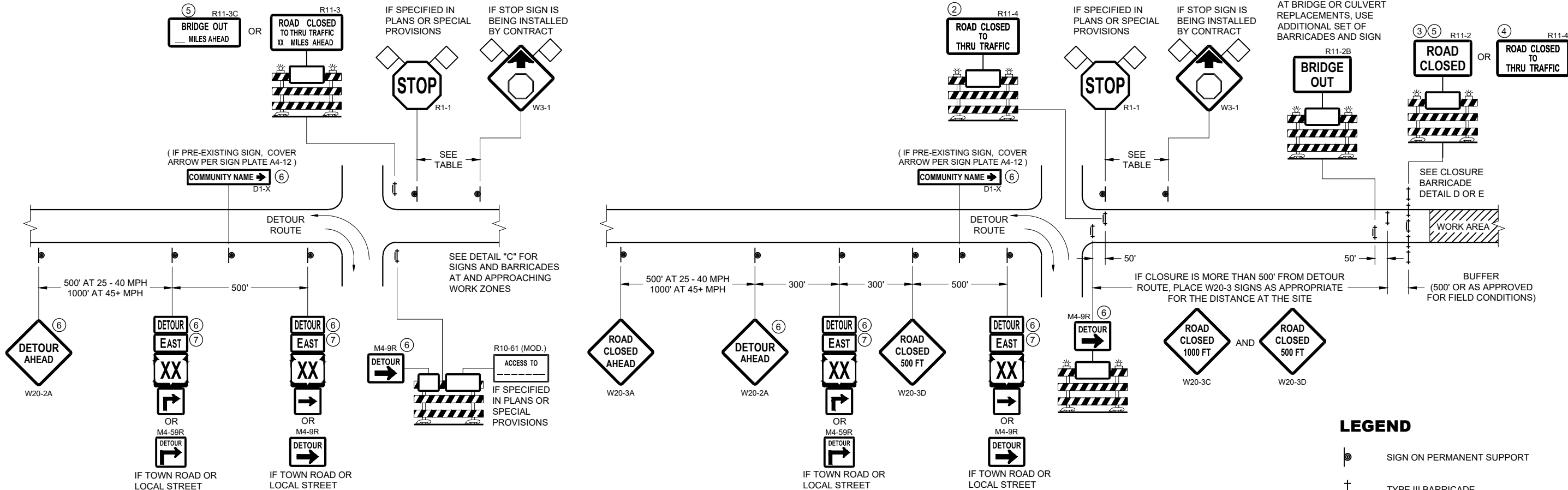


DETAIL C

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



**DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

**DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR**

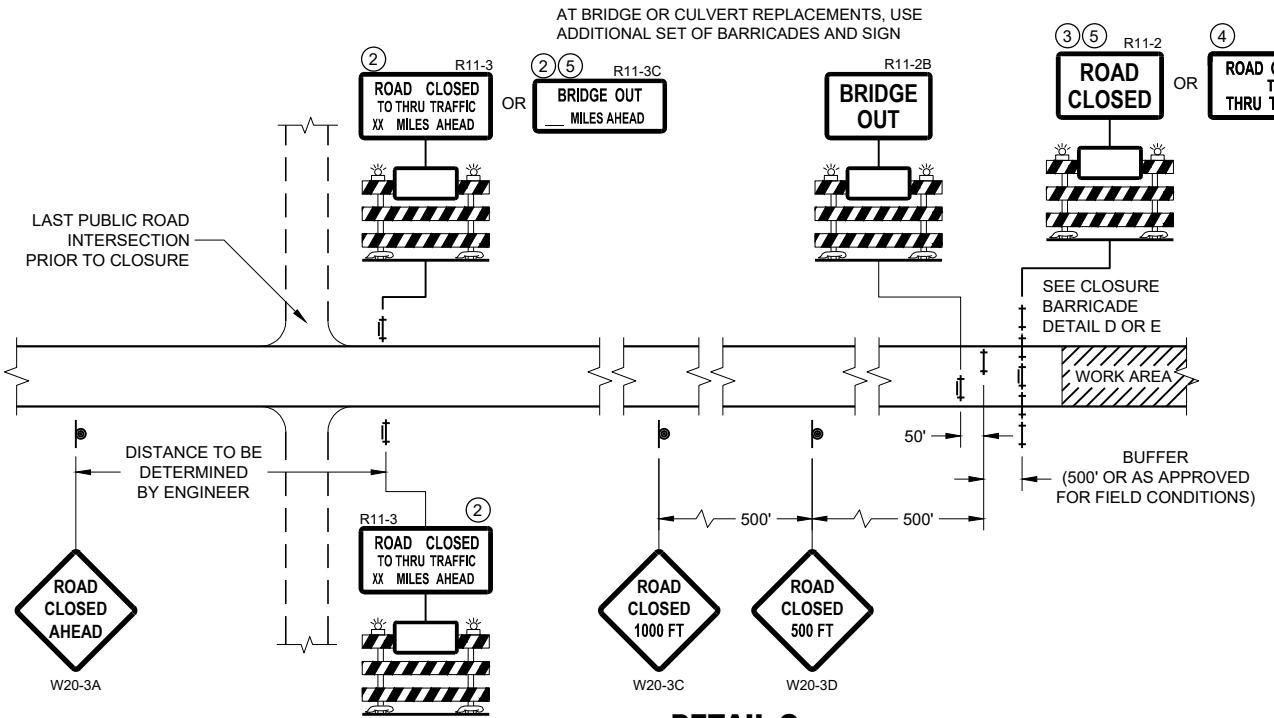
WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

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

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

- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1



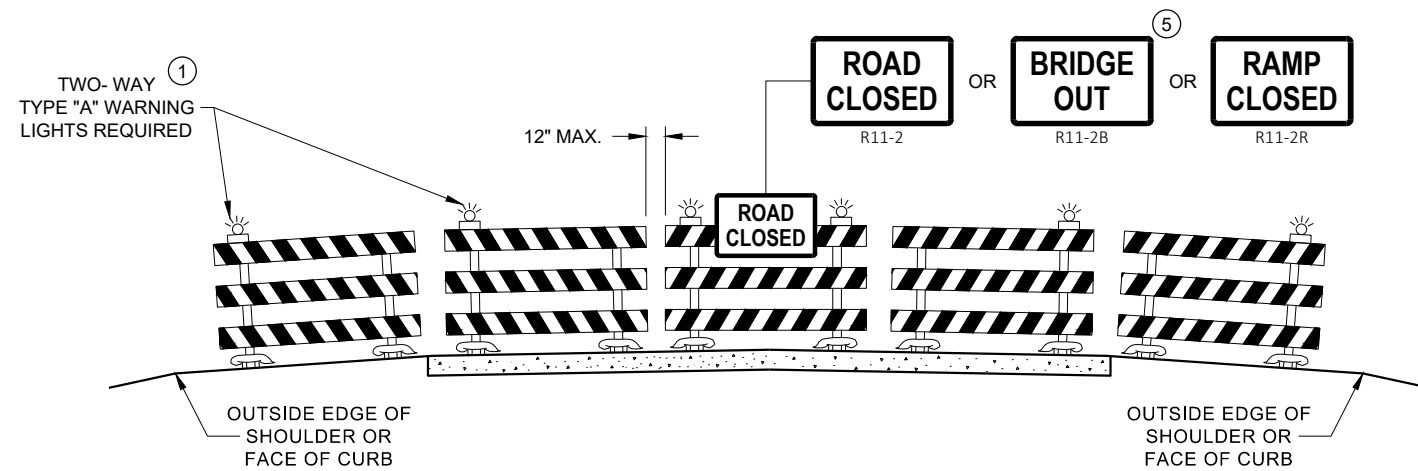
**DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR**

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

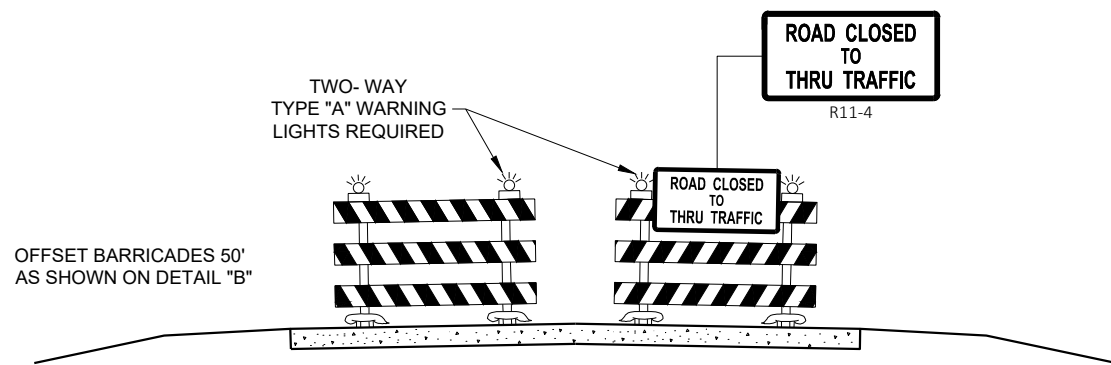
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE DATE WORK ZONE ENGINEER
FHWA



**DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW**



**DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

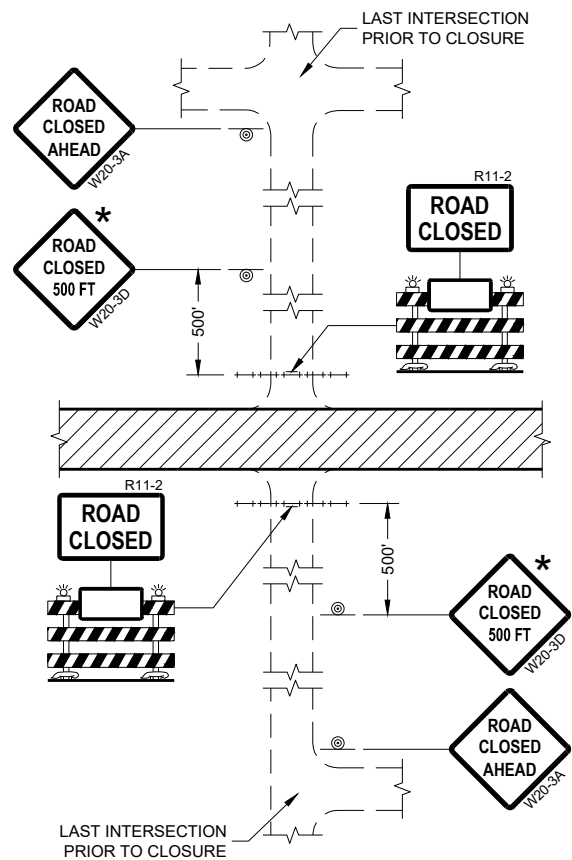
- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

**BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES**

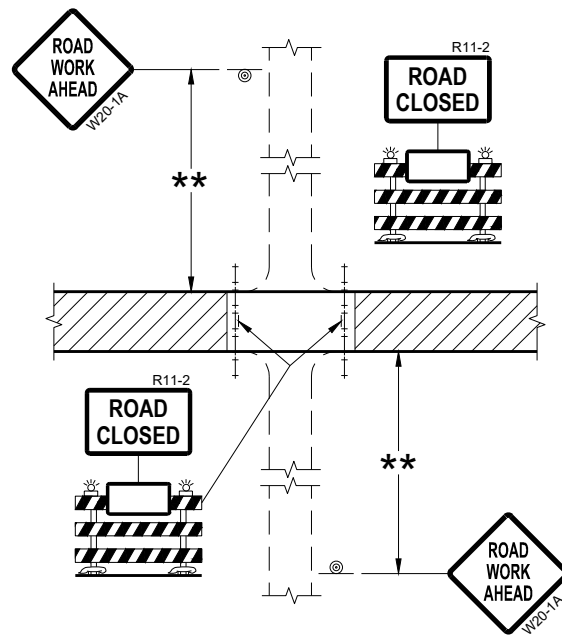
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

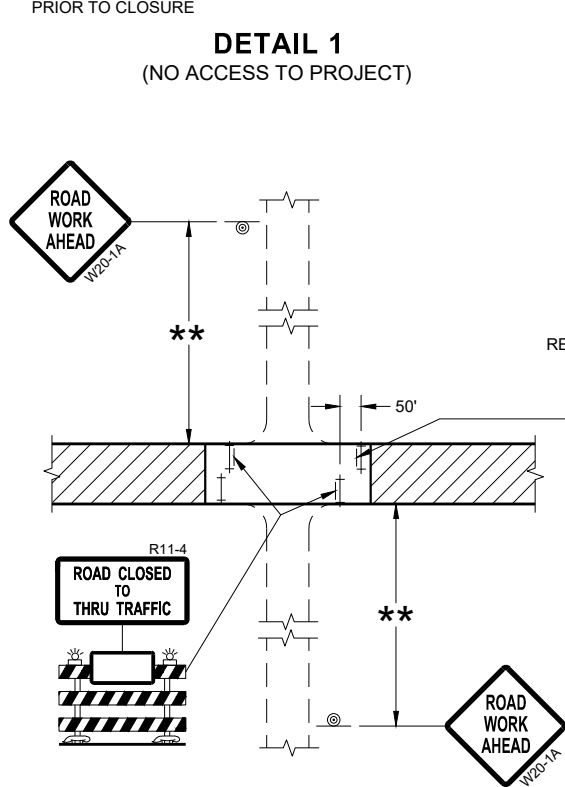
FHWA



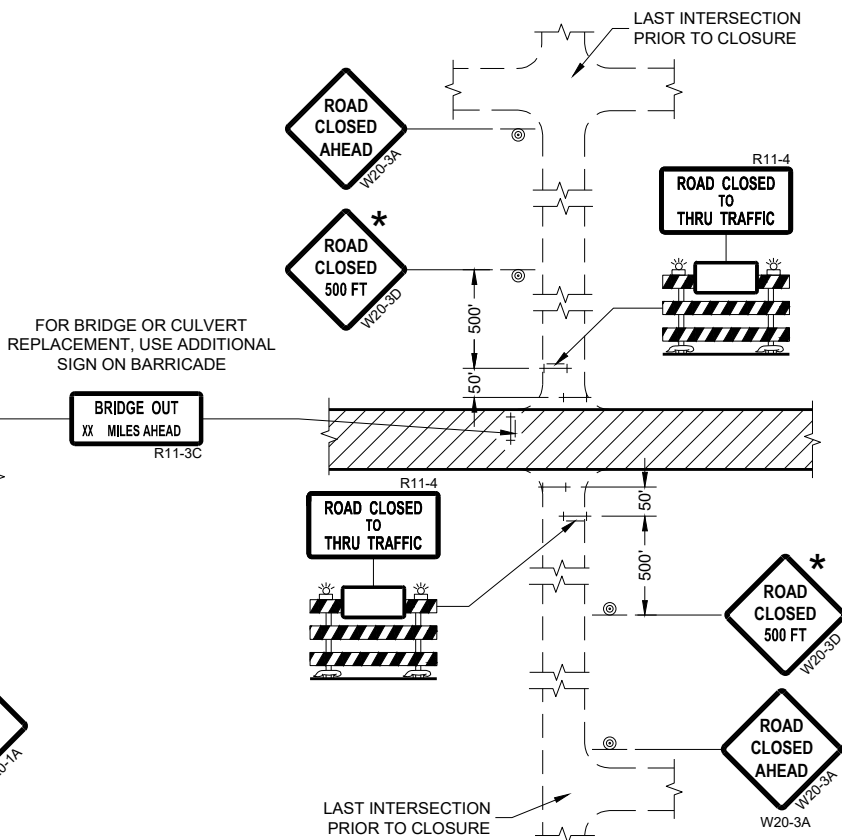
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



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 (500 FEET DESIRABLE) 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 REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

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

**BARRICADES AND SIGNS
FOR
SIDEROAD CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION




APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

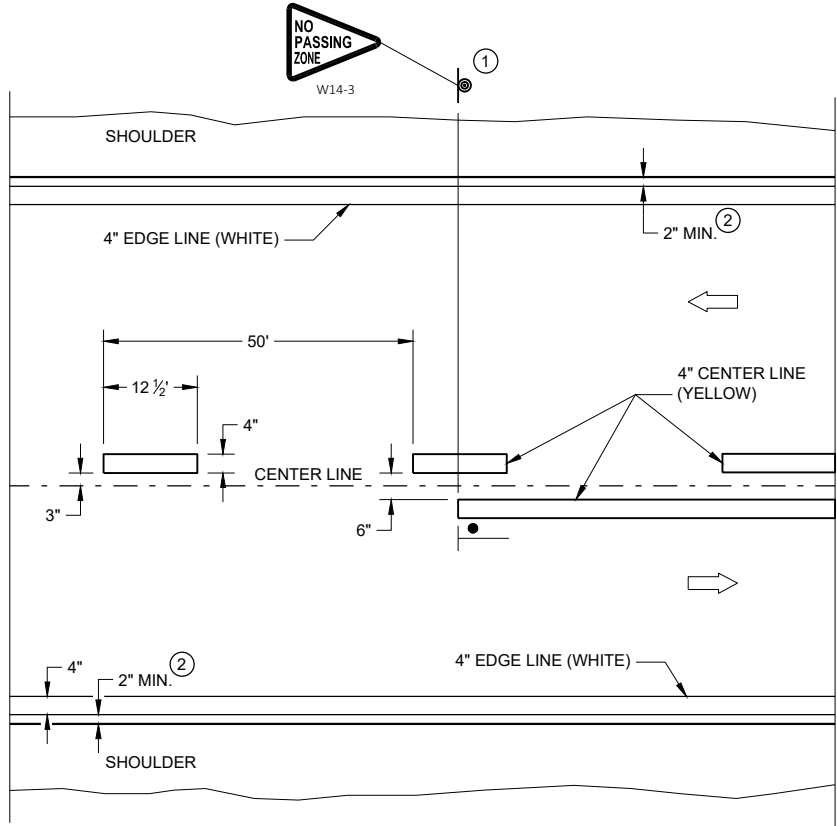
GENERAL NOTES

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

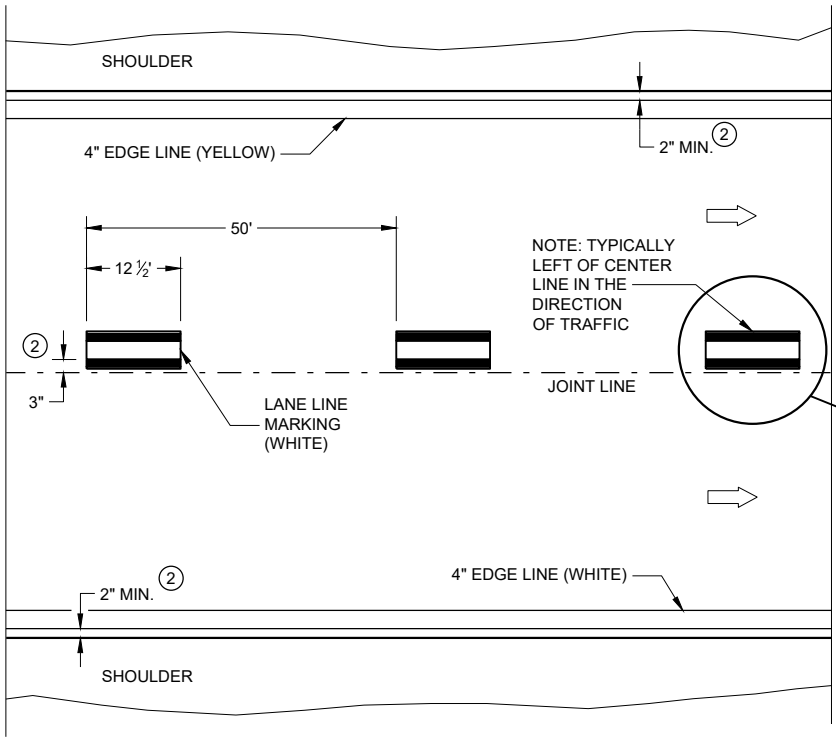
- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

-  "T" MARKING
-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC

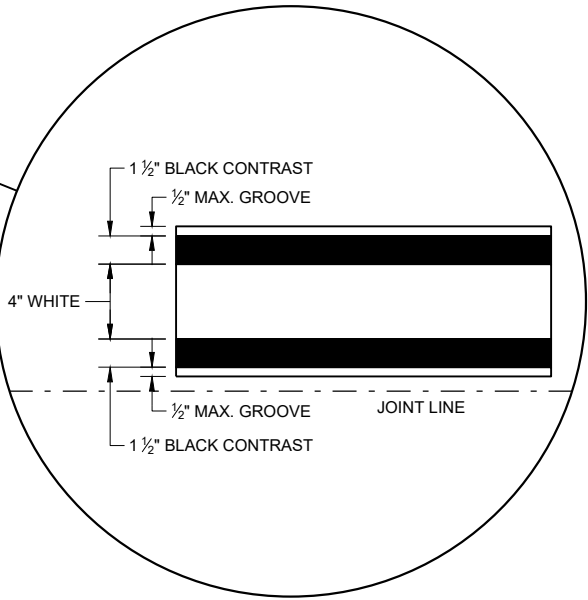


TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



6

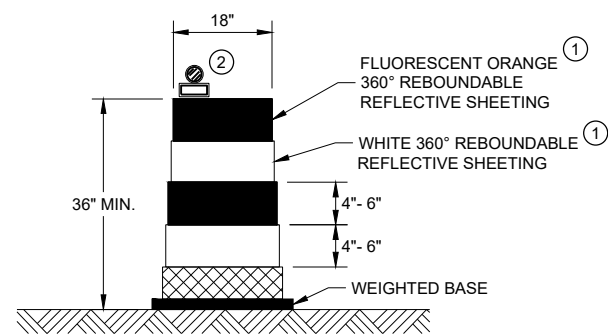
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PERMANENT LONGITUDINAL PAVEMENT MARKINGS

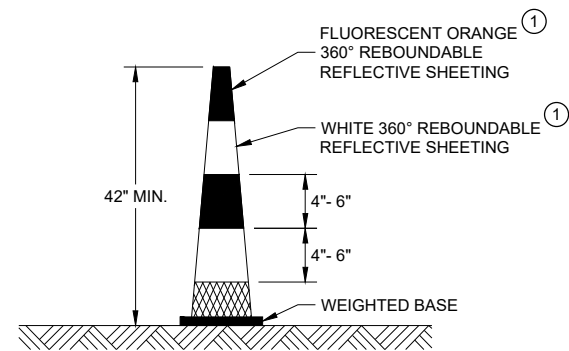
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: May 2022 /S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING ENGINEER

FHWA

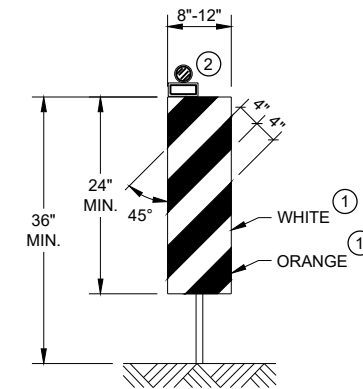


DRUM



42" CONE

DO NOT USE IN TAPERS
 1/2 SPACING OF DRUMS

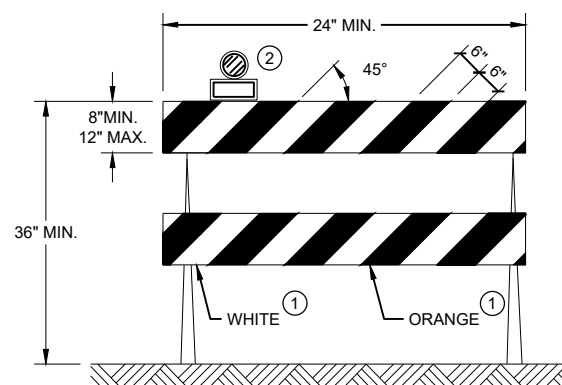


VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

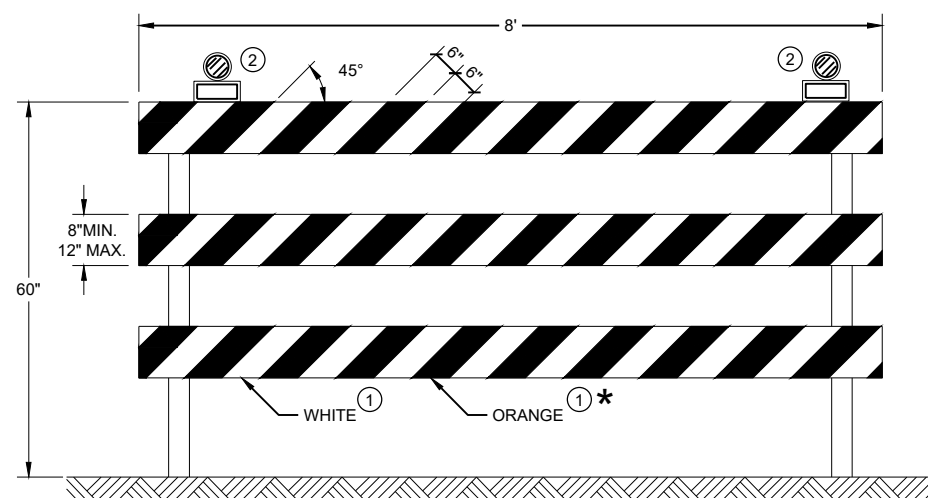
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2021 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
<small>FHWA</small>	

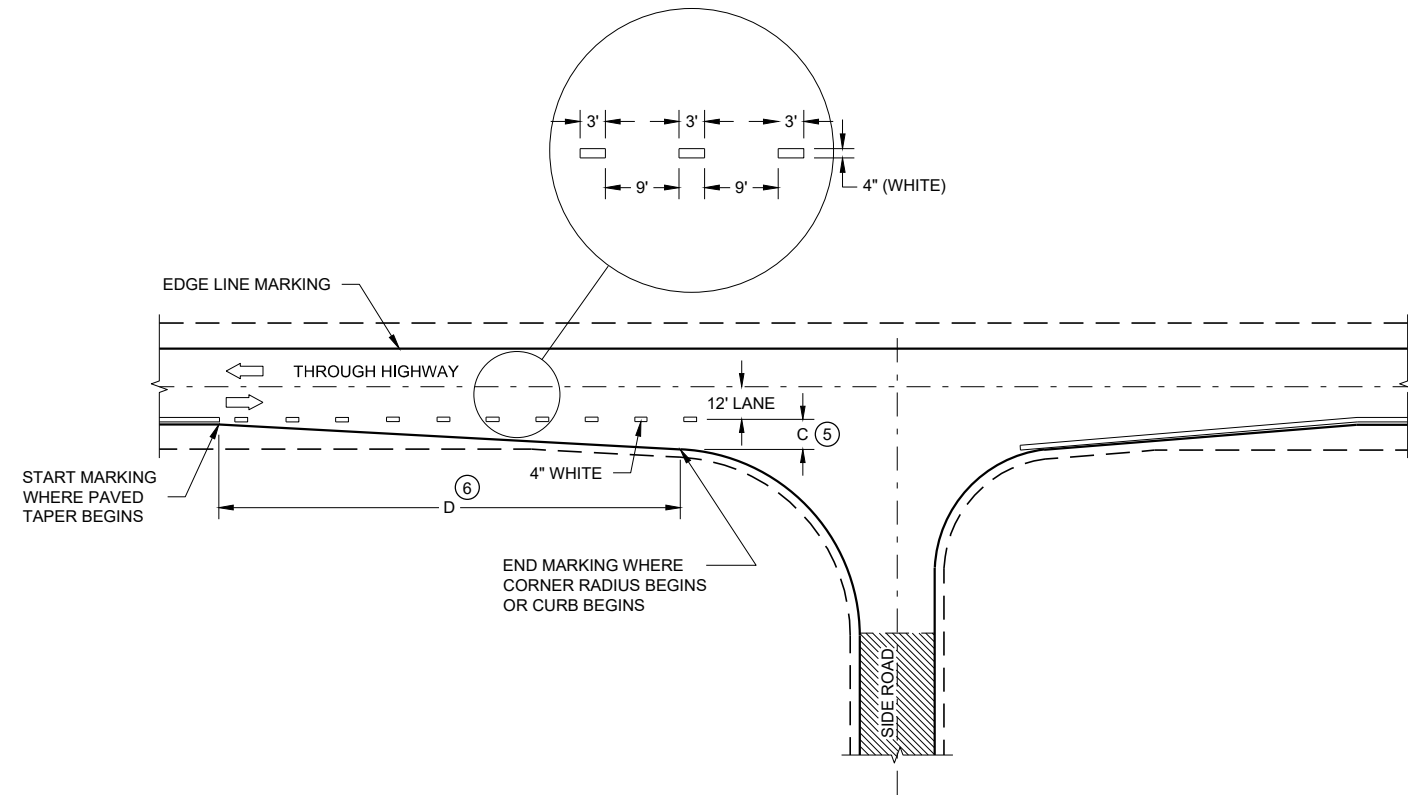
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

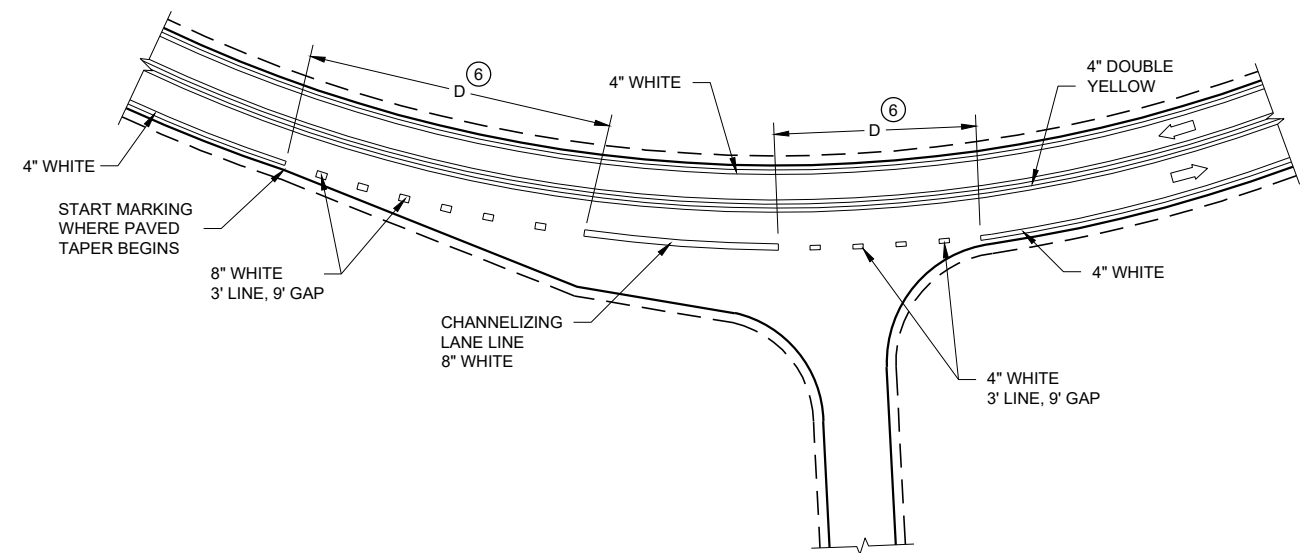
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
- ⑤ WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
- ⑥ WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

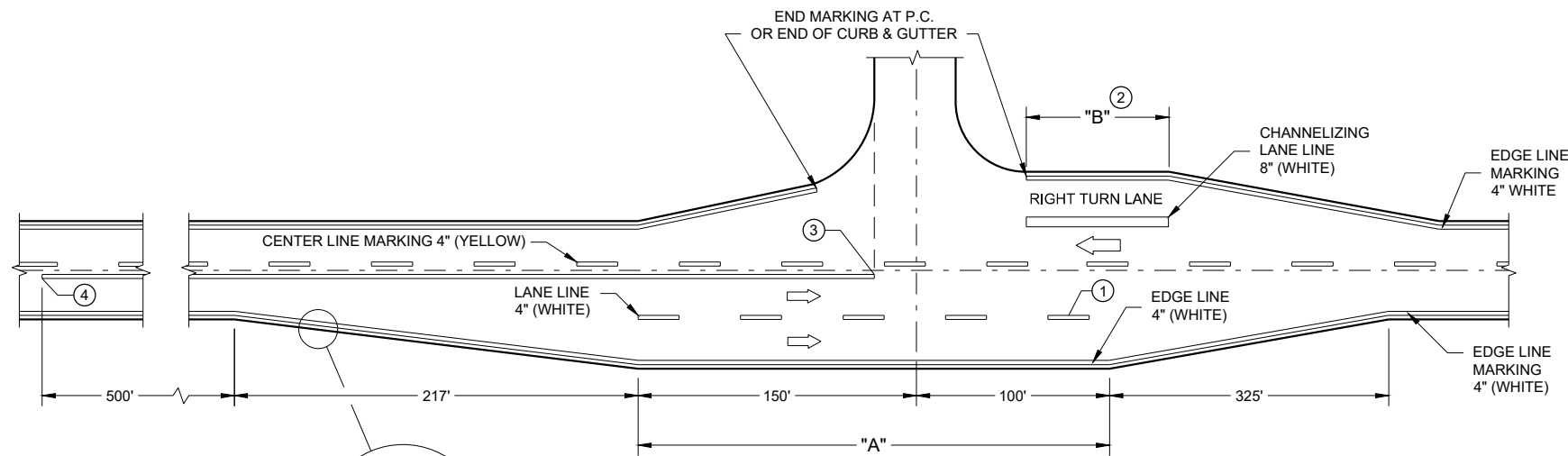
➡ DIRECTION OF TRAVEL



MINOR INTERSECTION

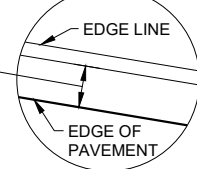


INTERSECTION ON OUTSIDE OF CURVE



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

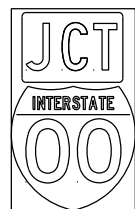
BYPASS LANE PAVED SHOULDER WIDTH (AS SHOWN ELSEWHERE IN PLANS) - PLUS 2 INCHES



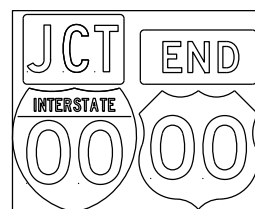
**PAVEMENT MARKING
(INTERSECTIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

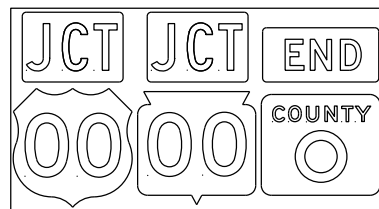
TYPICAL ASSEMBLIES



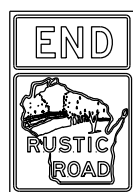
J1-1



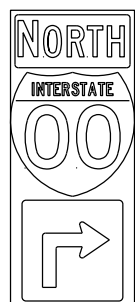
J1-2



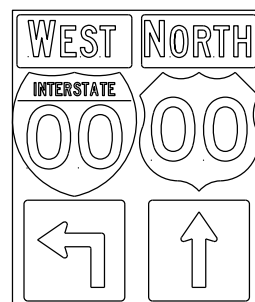
J1-3



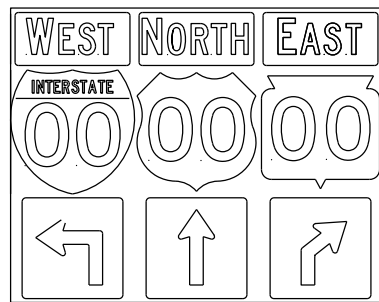
JR1-1



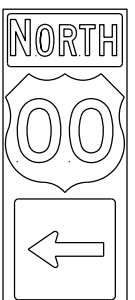
J2-1



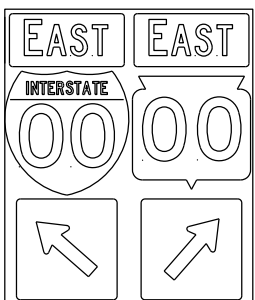
J2-2



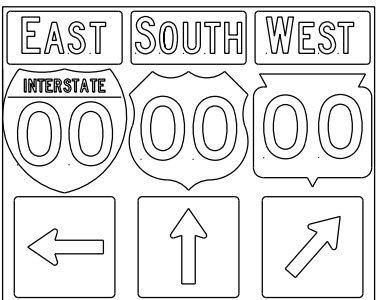
J2-3



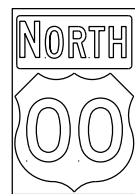
J3-1



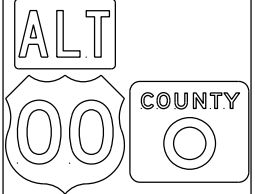
J3-2



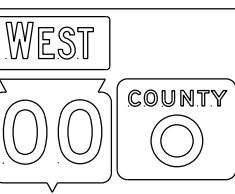
J3-3



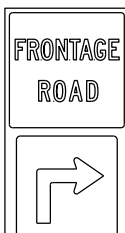
J4-1



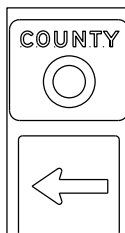
J4-2



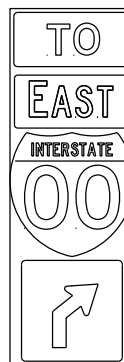
J4-2



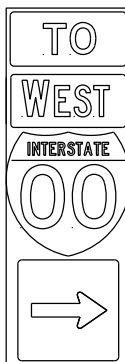
J12-1



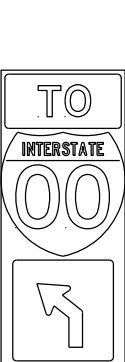
J13-1



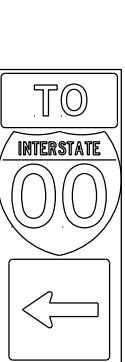
J32-1



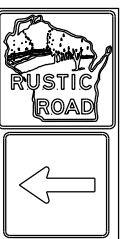
J33-1



J22-1



J23-1



JR13-1



JR23-1

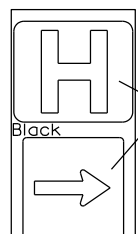


JR99-1



JV

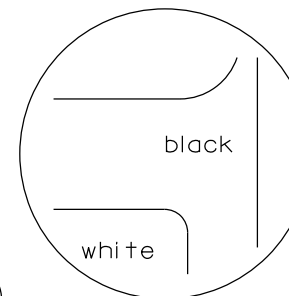
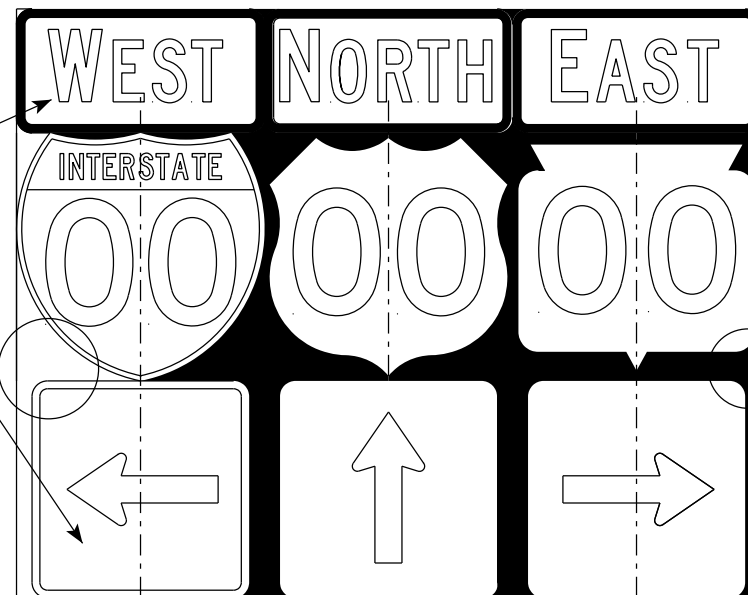
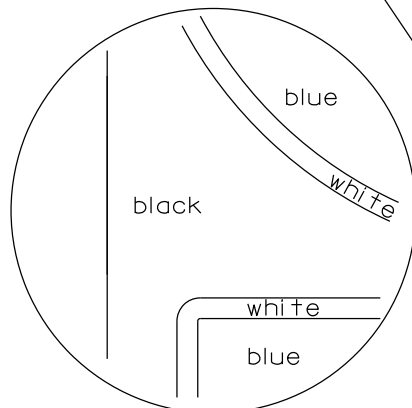
(Typical Vertical J-Assembly See Note 10 and 11)



JH-1

Blue Background

blue background with interstate



black background

NOTES

- Signs are Type II - Type H Reflective
- Color:
 - Background - Black Non-reflective
 - Message - see Note 5
- Message Series - See Note 5
- Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
- The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- Certain marker heads require the component pieces to be the same color. As an example, all the components used with an MI-1 Interstate marker shall be blue.
- 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.
- 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.
- Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- All Vertical J Assemblies are given a Sign Code of JV
- 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 3/18/21

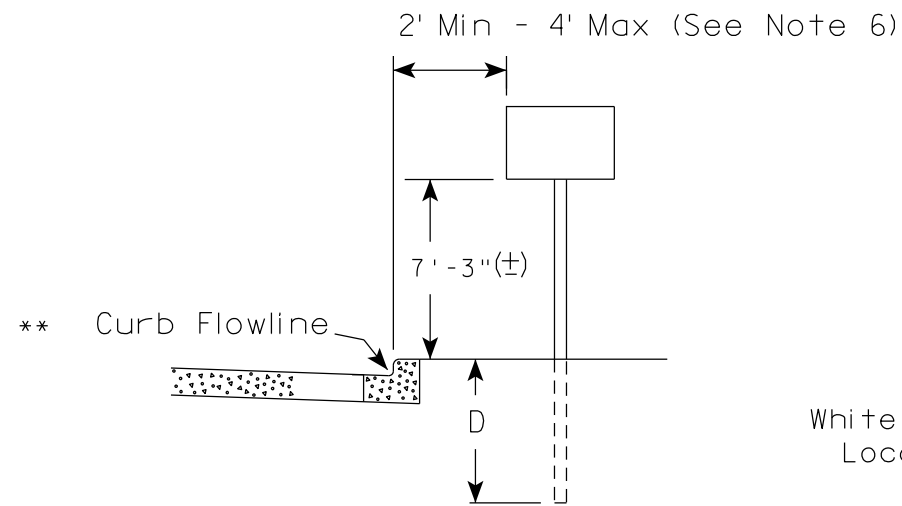
PLATE NO. A2-1S.9

PROJECT NO:

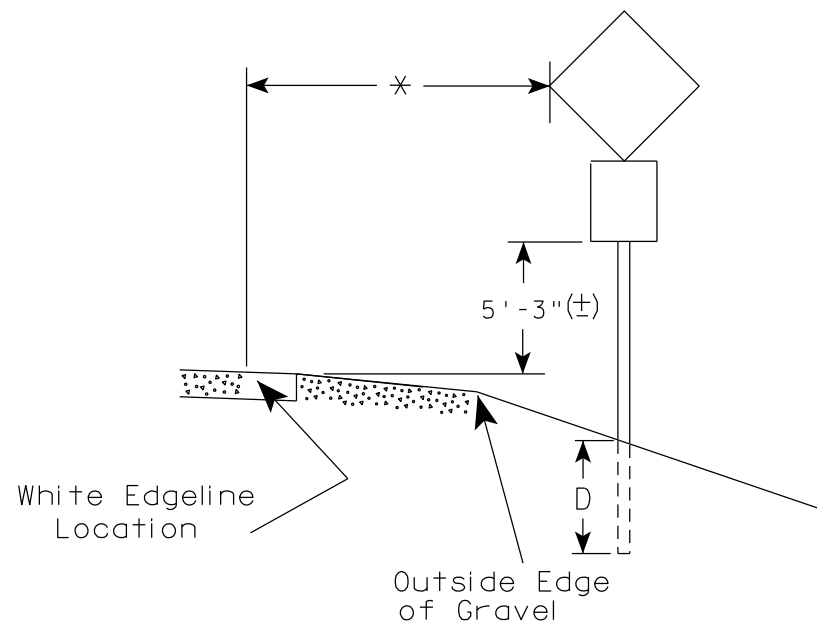
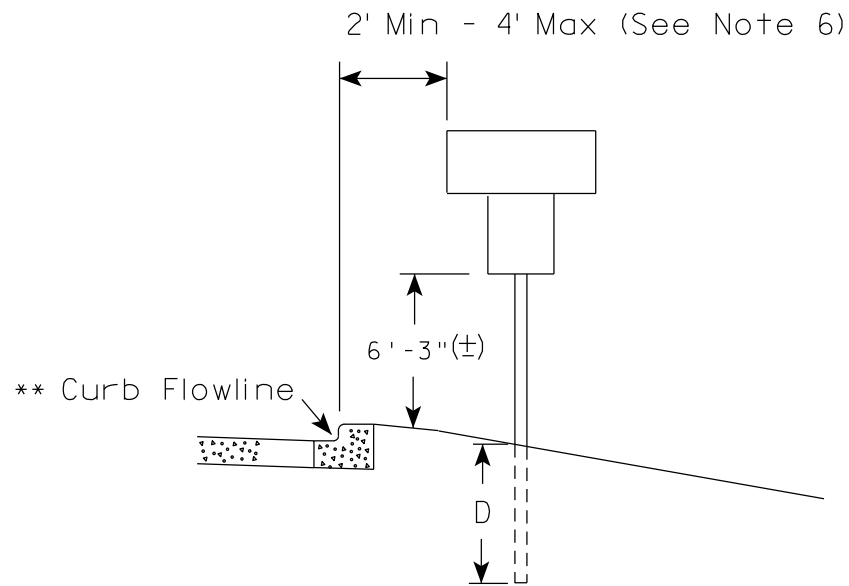
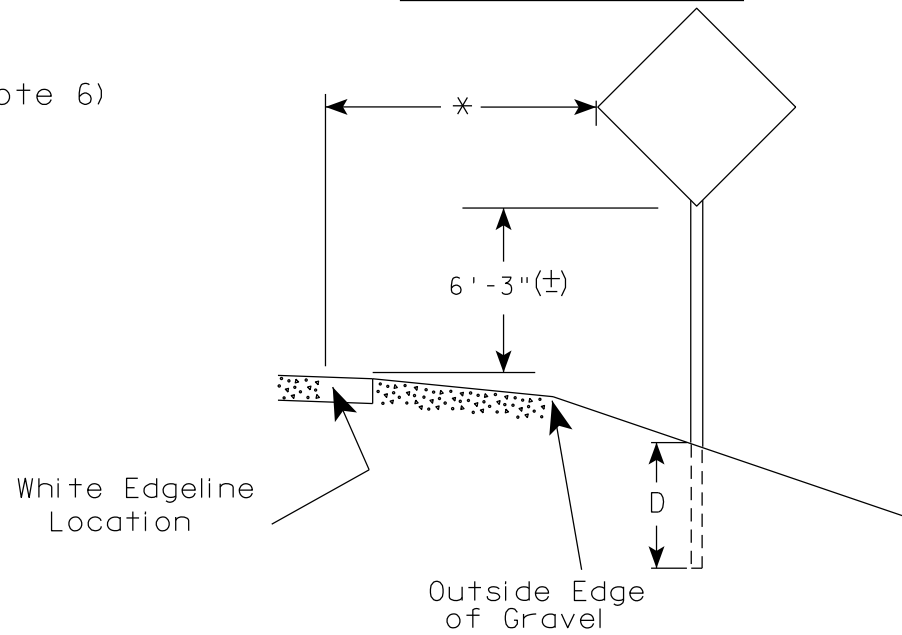
SHEET NO:

E

URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.

POST EMBEDMENT DEPTH

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

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

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22



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

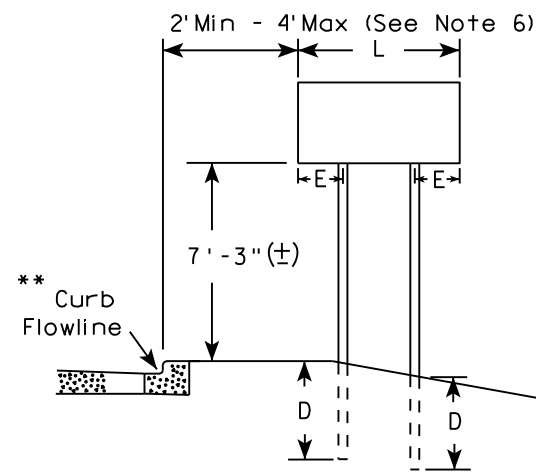
7

7

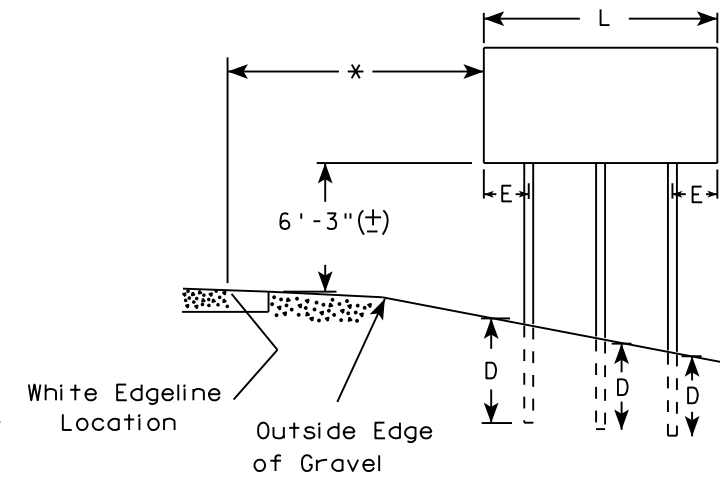
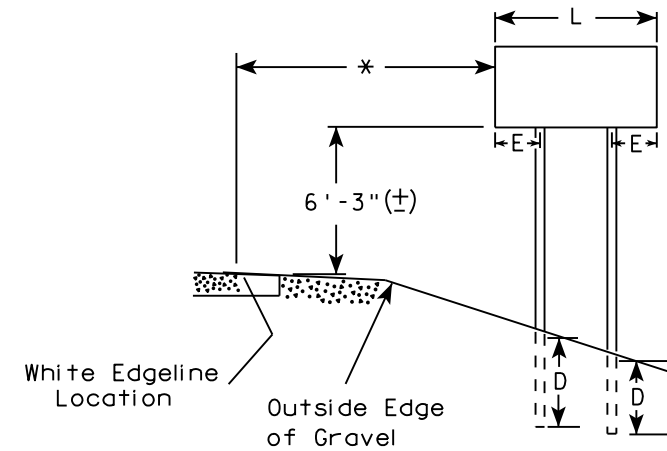
GENERAL NOTES

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. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

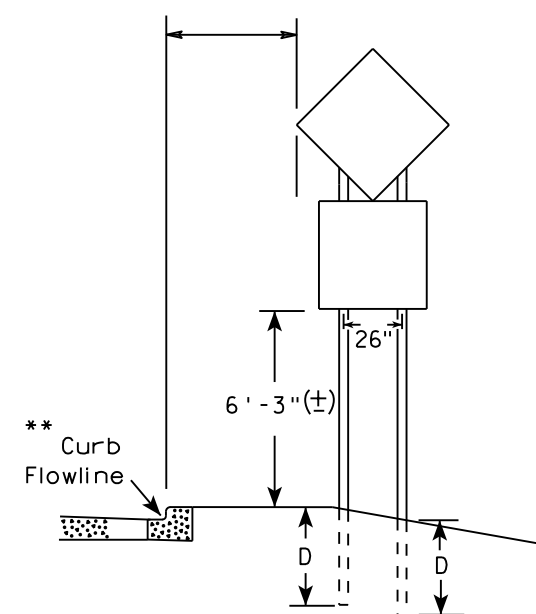
URBAN AREA



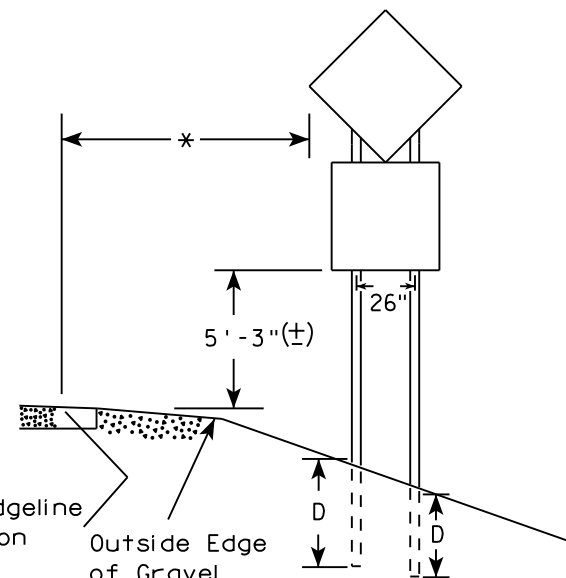
RURAL AREA (See Note 3)



2' Min - 4' Max (See Note 6)



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

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

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

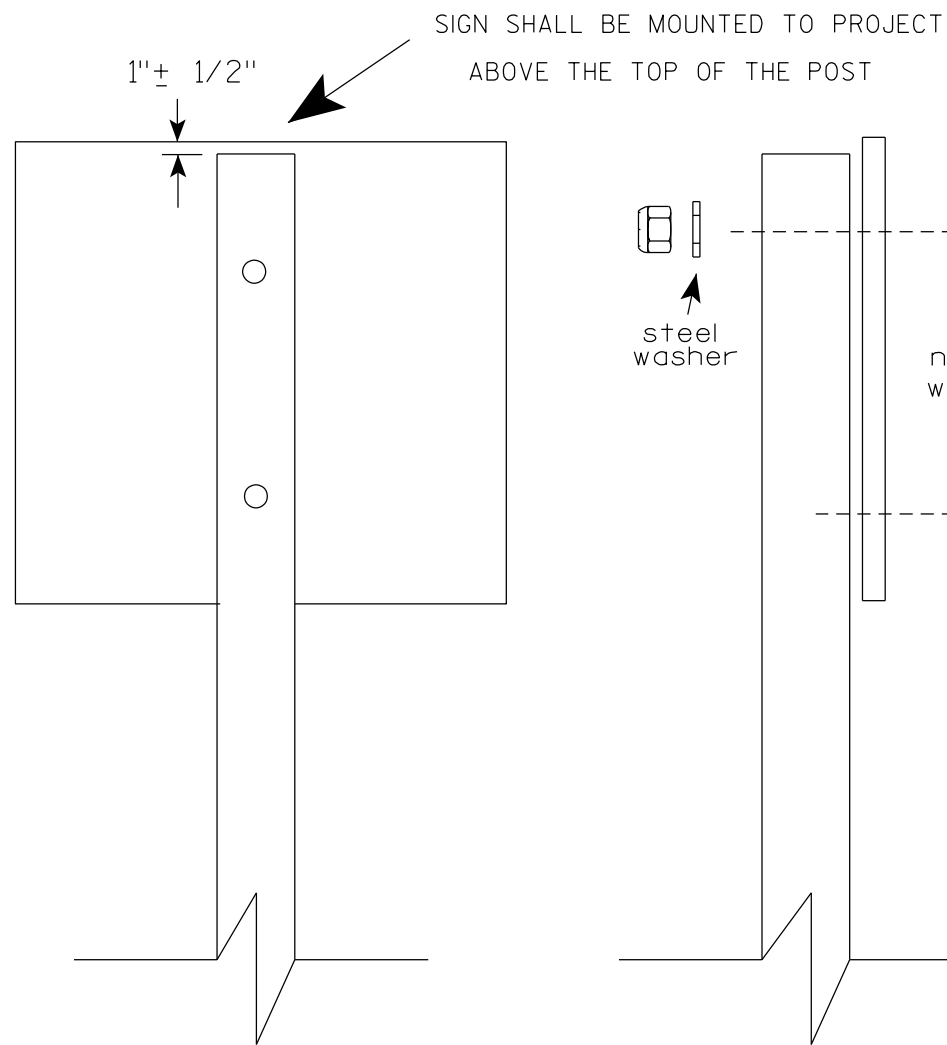
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

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 8/21/17 PLATE NO. A4-4.15



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

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

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

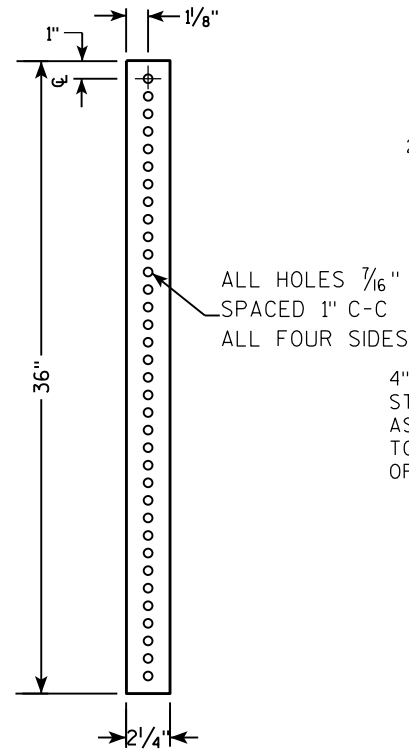
- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
 - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
 - 1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

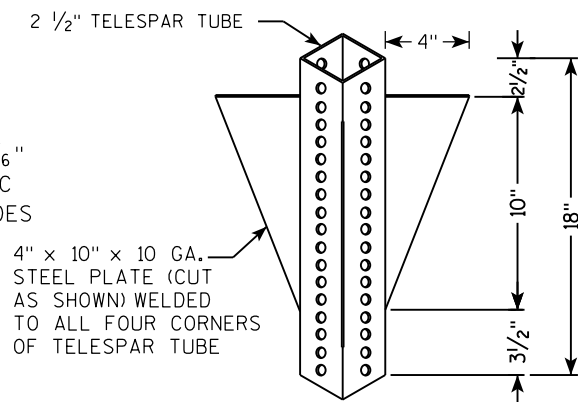
ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R Rauch</i> For State Traffic Engineer
DATE 4/1/2020	PLATE NO. A4-8.9

**TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM**

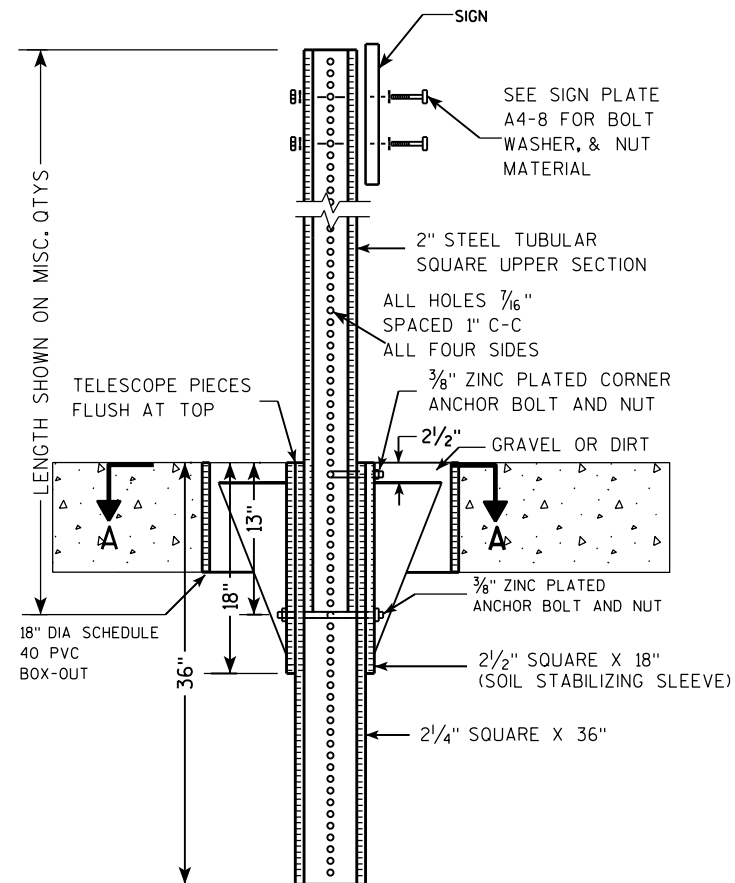
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



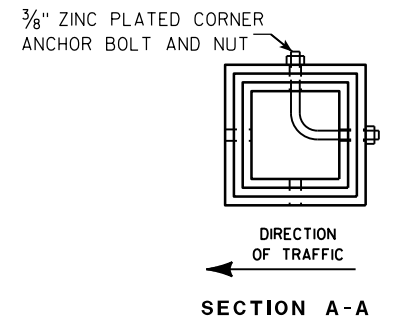
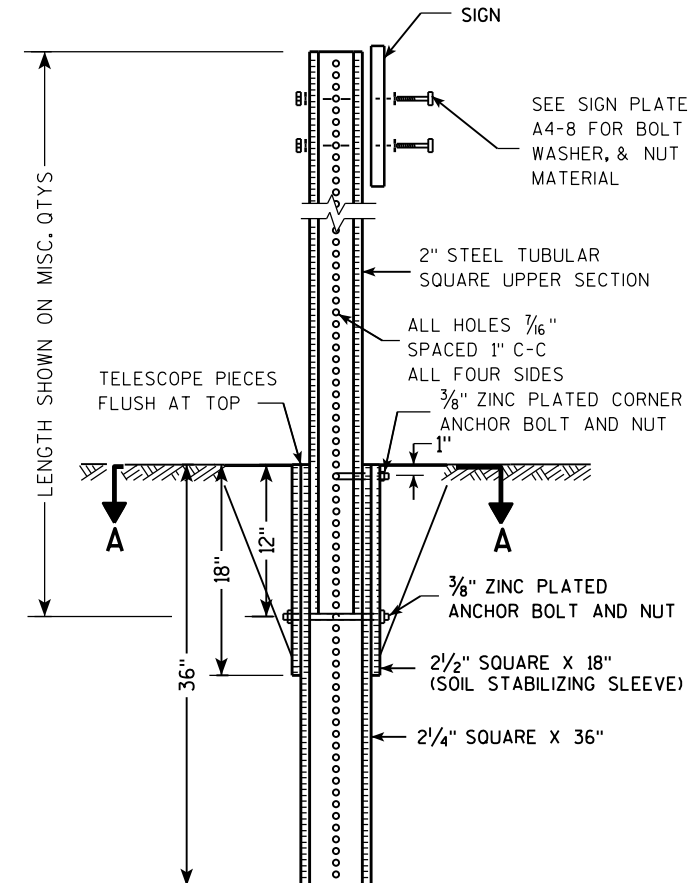
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH



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



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



Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

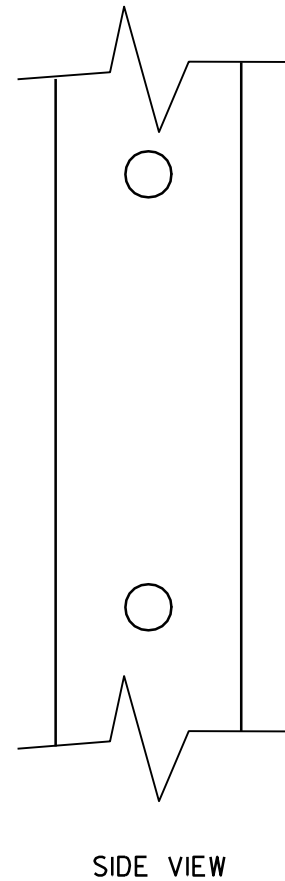
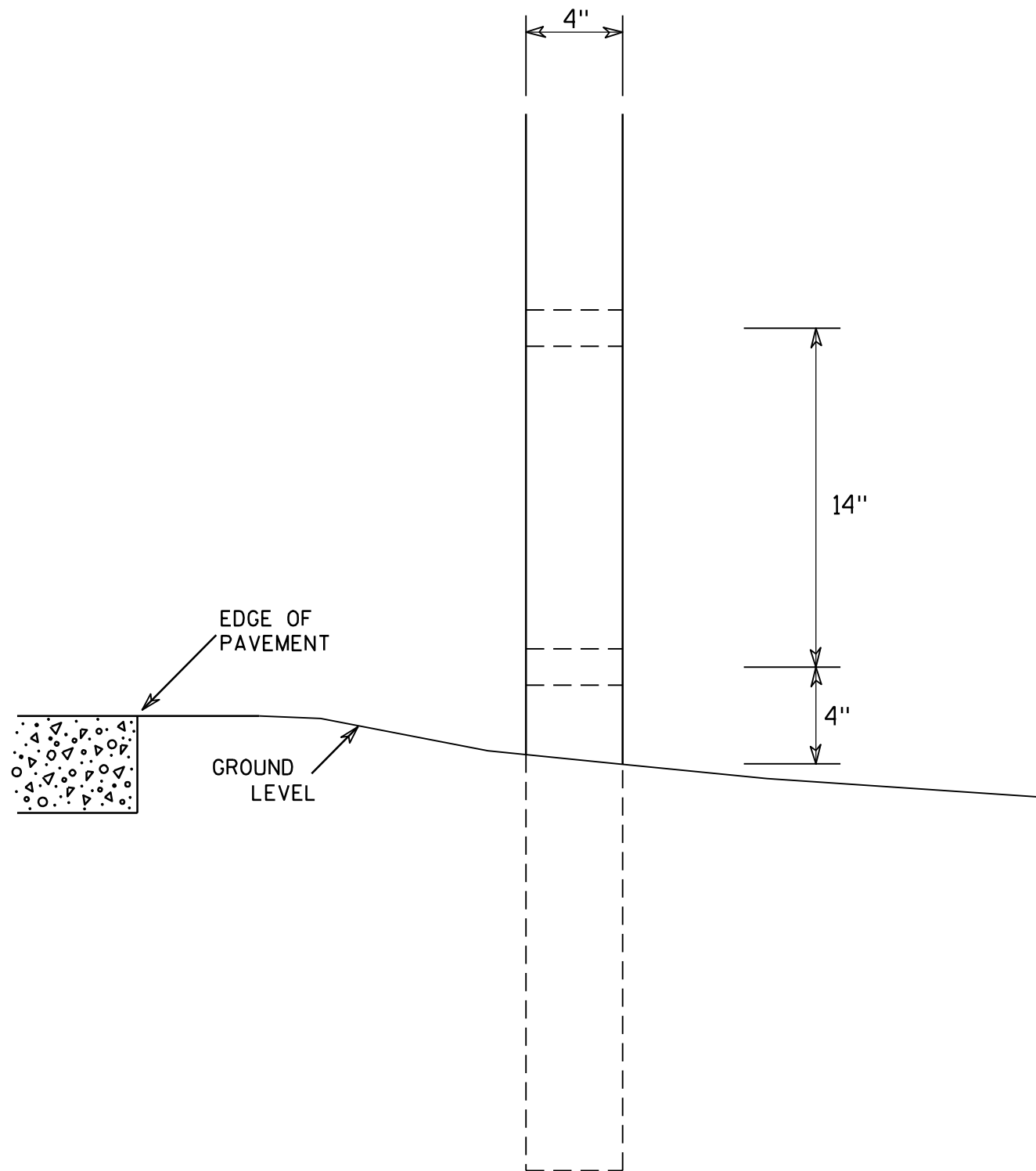
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

**TUBULAR STEEL
SIGN POST
A4-9**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9




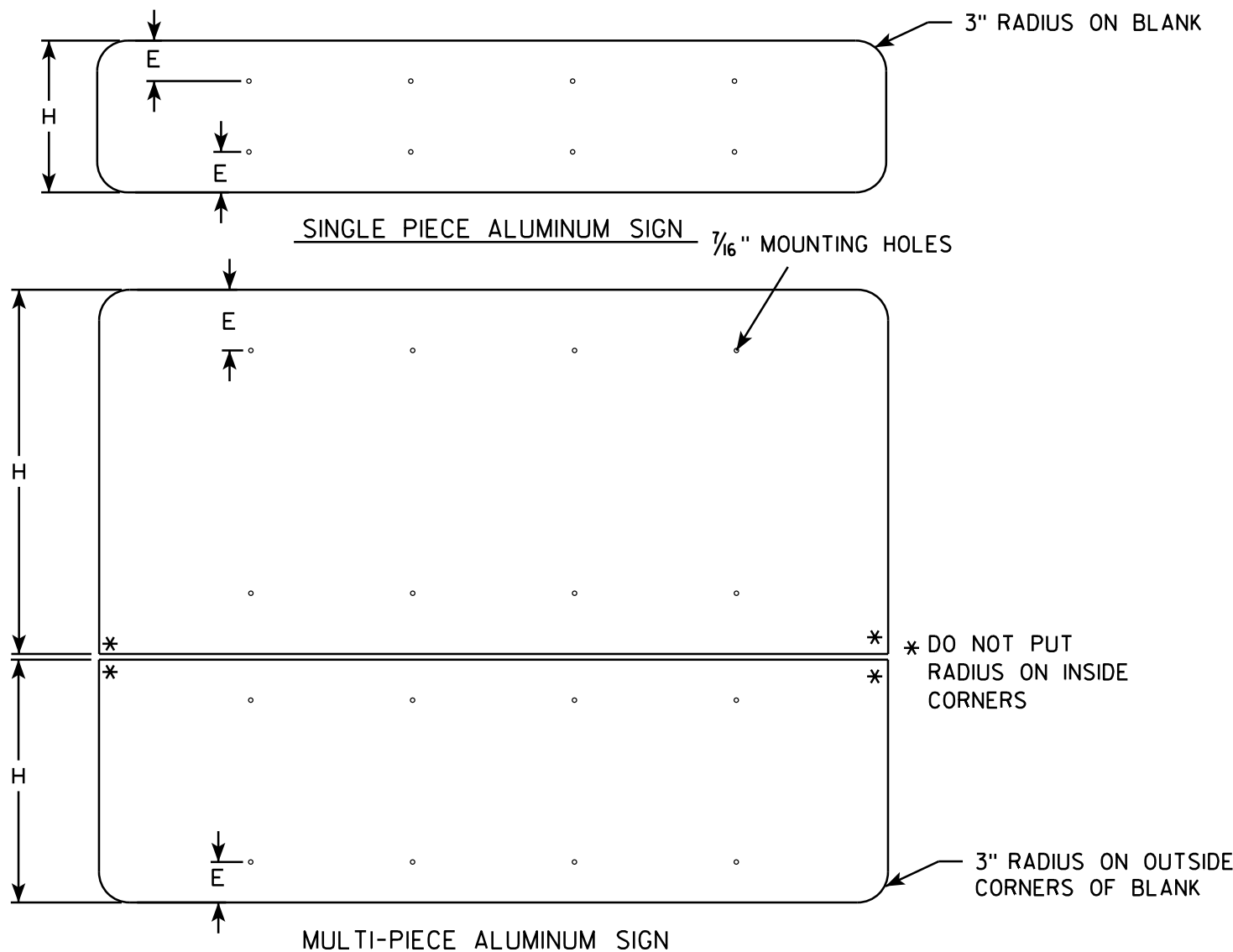
GENERAL NOTES

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

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4 X 6 WOOD POST MODIFICATIONS	
<i>WISCONSIN DEPT OF TRANSPORTATION</i>	
APPROVED	 <small>for State Traffic Engineer</small>
DATE <u>3/27/97</u>	PLATE NO. <u>A4-11.2</u>

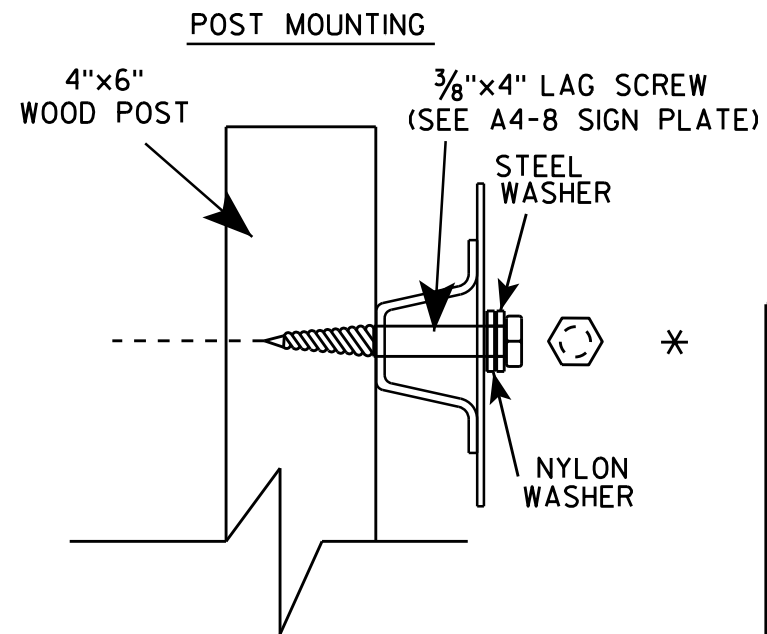
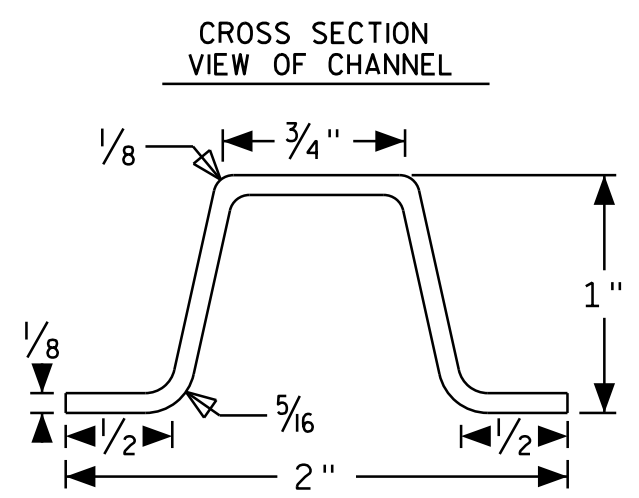
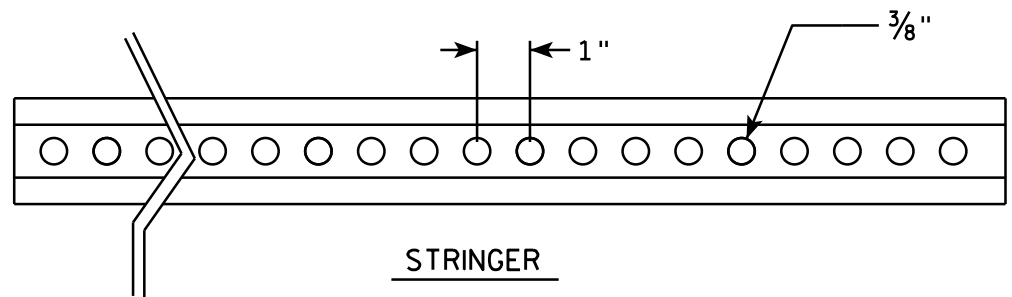


GENERAL NOTES

- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE $\frac{7}{16}$ " DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16 $\frac{1}{2}$ " 33 $\frac{1}{2}$ " 50 $\frac{1}{2}$ " 67 $\frac{1}{2}$ "
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19 $\frac{1}{2}$ " 38 $\frac{1}{2}$ " 57 $\frac{1}{2}$ " 76 $\frac{1}{2}$ "
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22 $\frac{1}{2}$ " 43 $\frac{1}{2}$ " 64 $\frac{1}{2}$ " 85 $\frac{1}{2}$ "
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

7



7

SIGN STRINGER MOUNTING REQUIREMENTS

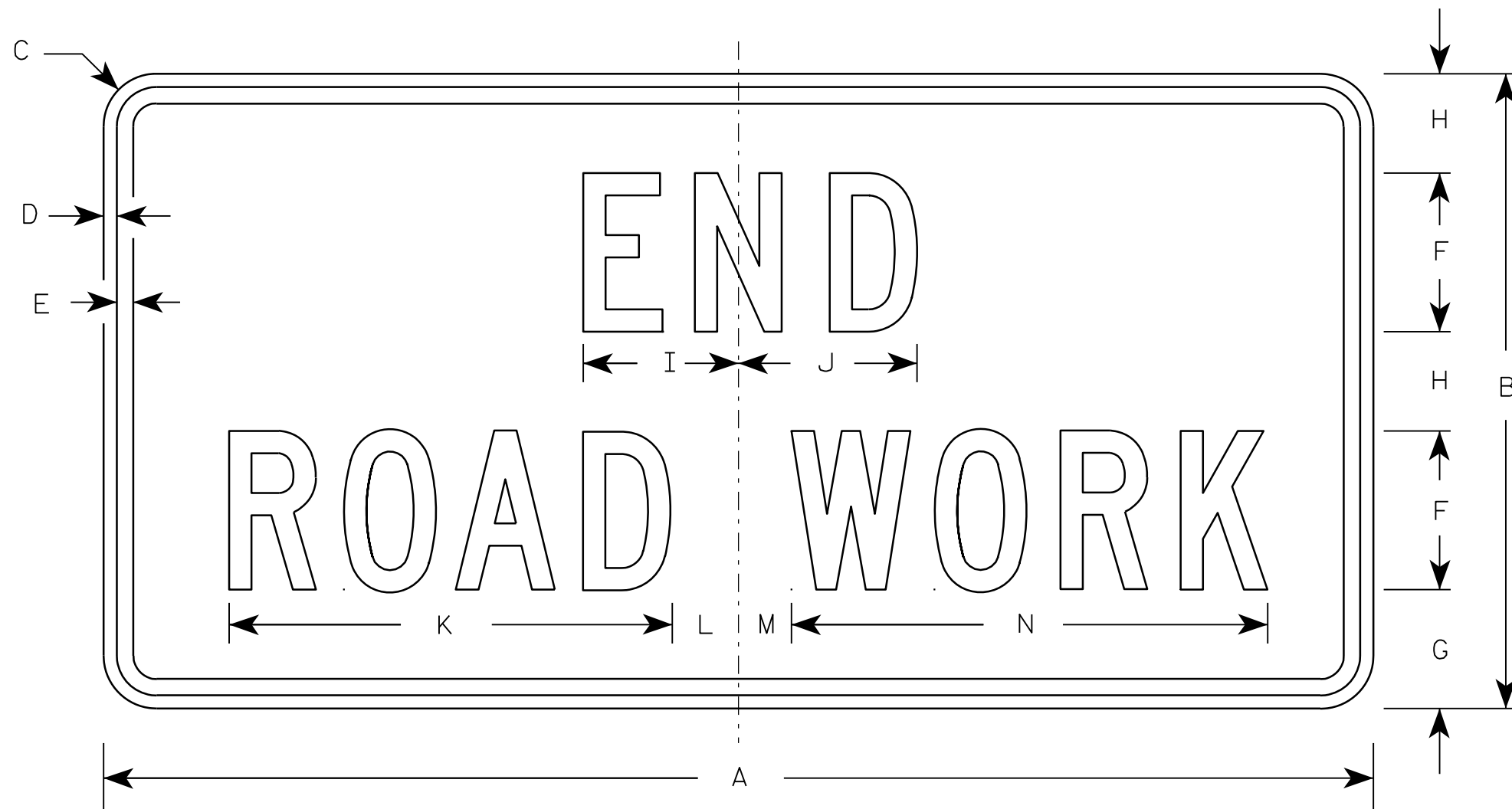
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/26/16 PLATE NO. A4-18.1

NOTES

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



G20-2A

Metric equivalent for this sign is:

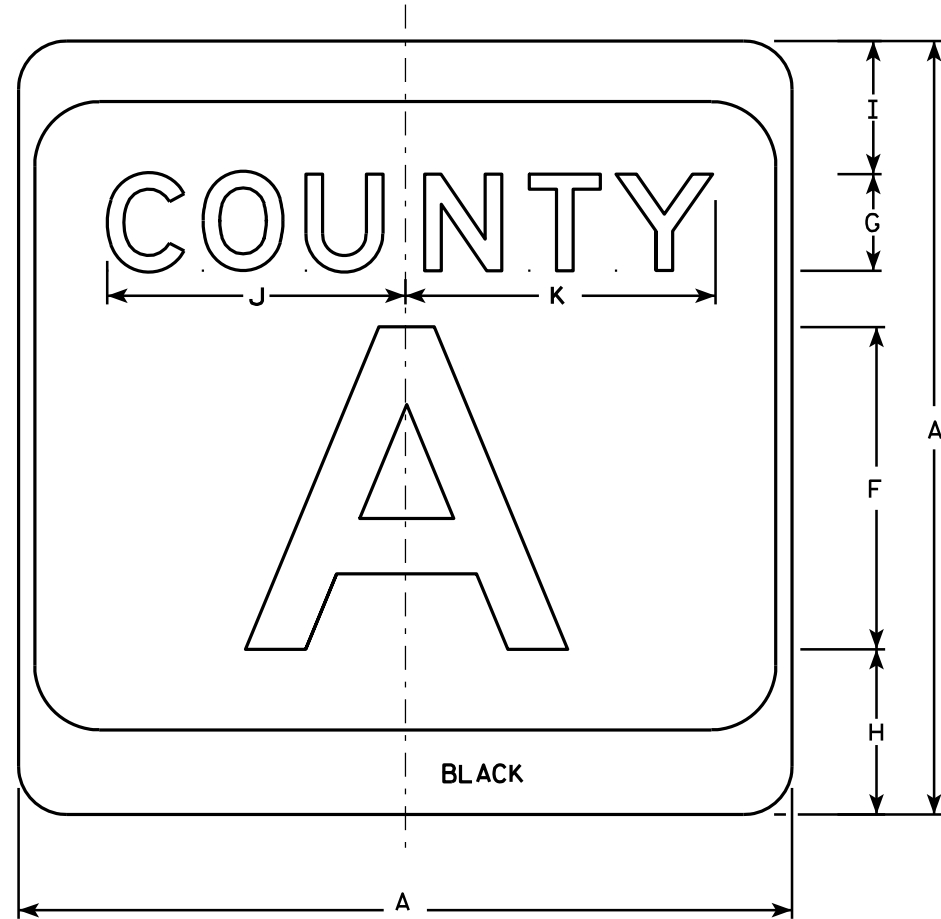
SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

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 sq. m.
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

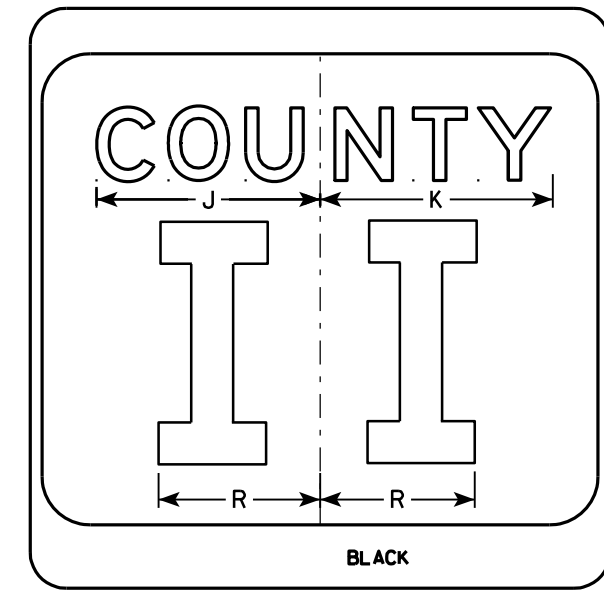
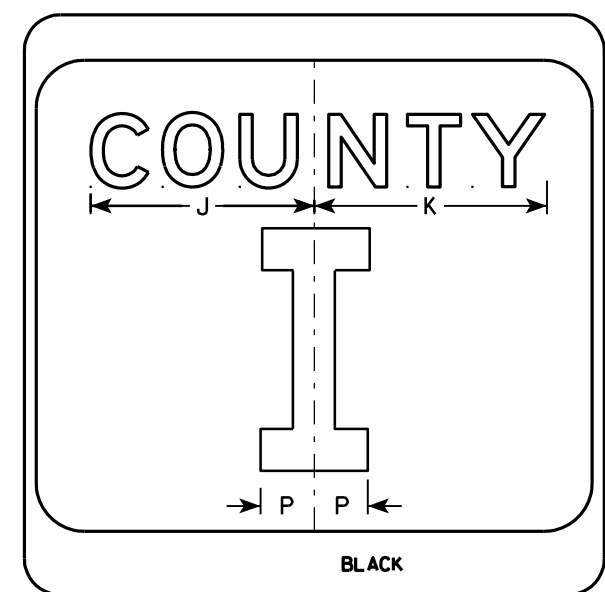
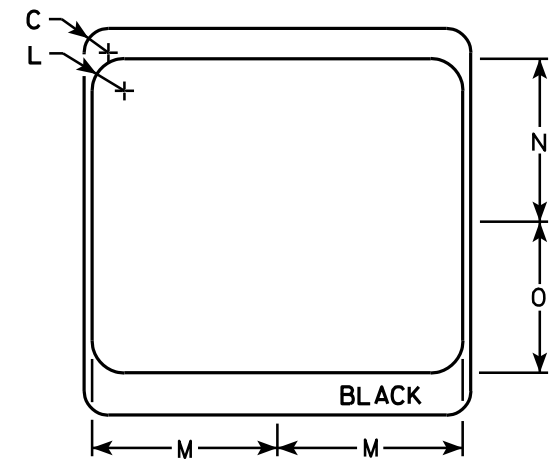
STANDARD SIGN G20-2A	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 9/30/09	PLATE NO. G20-2A.8

NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 7
Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



M1-5A



7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

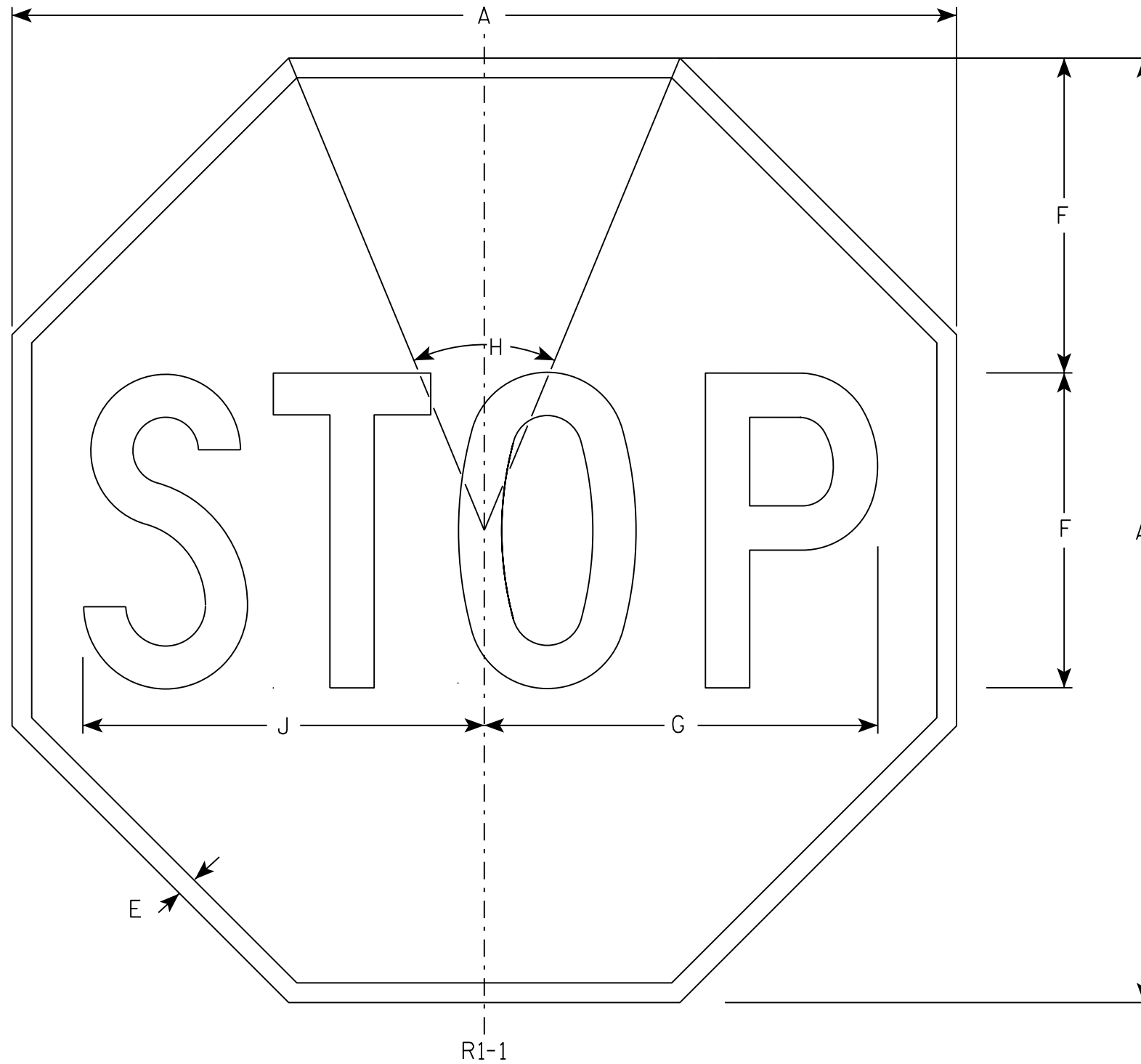
APPROVED *Matthew R. Raub*
For State Traffic Engineer

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

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **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



7

7

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

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

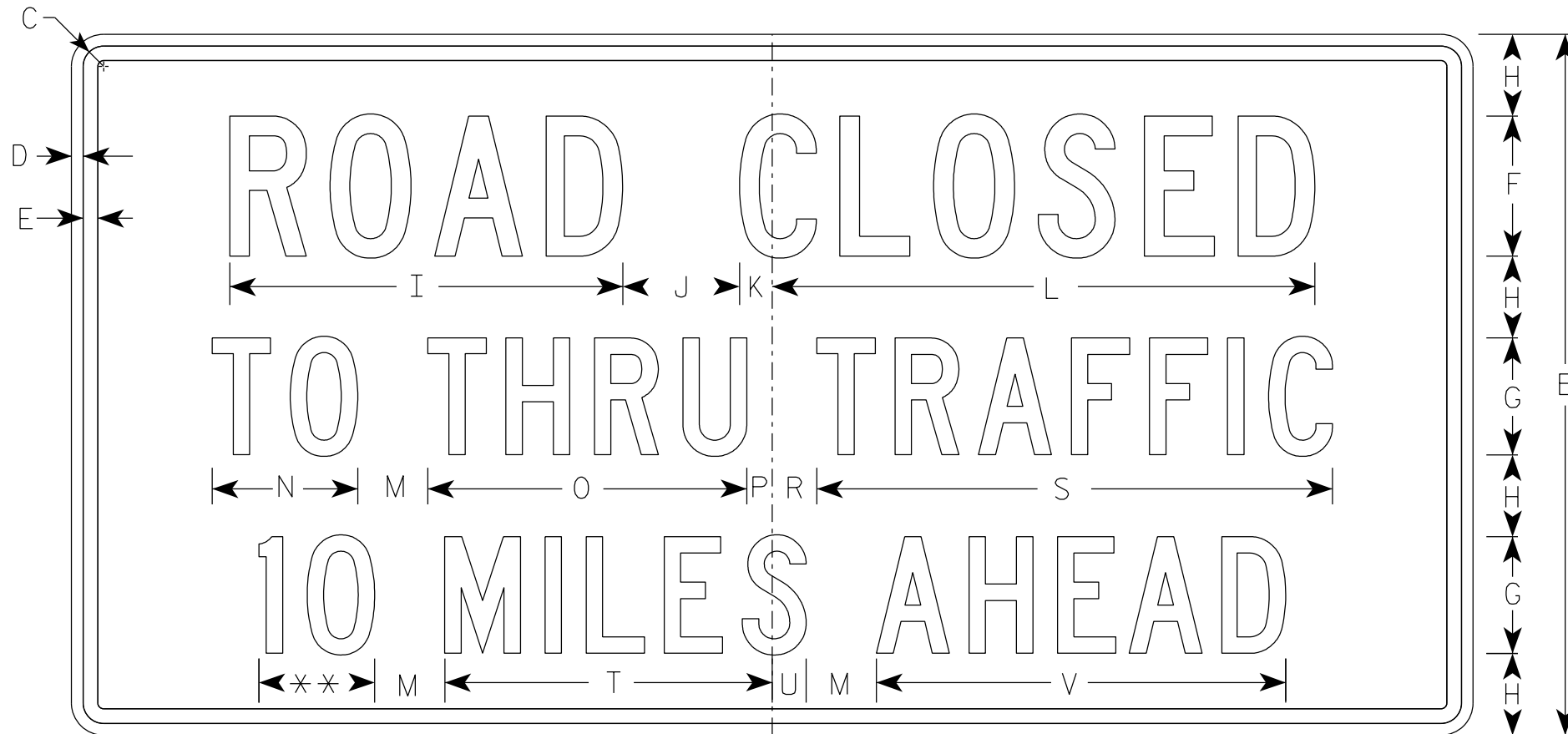
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ **E**

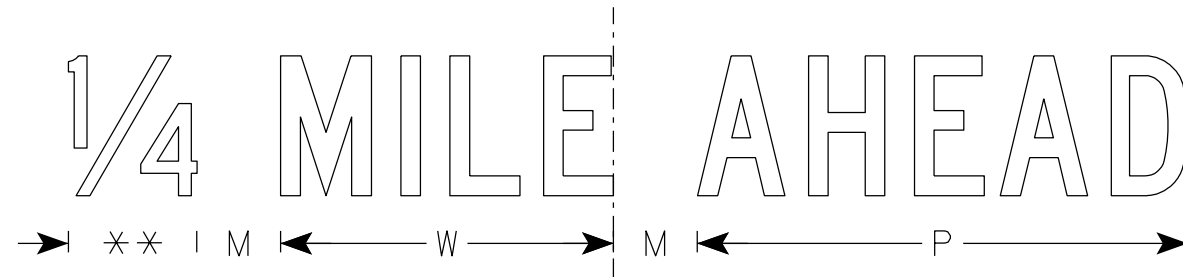
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5	
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5	
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5	
3																												
4																												
5																												

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

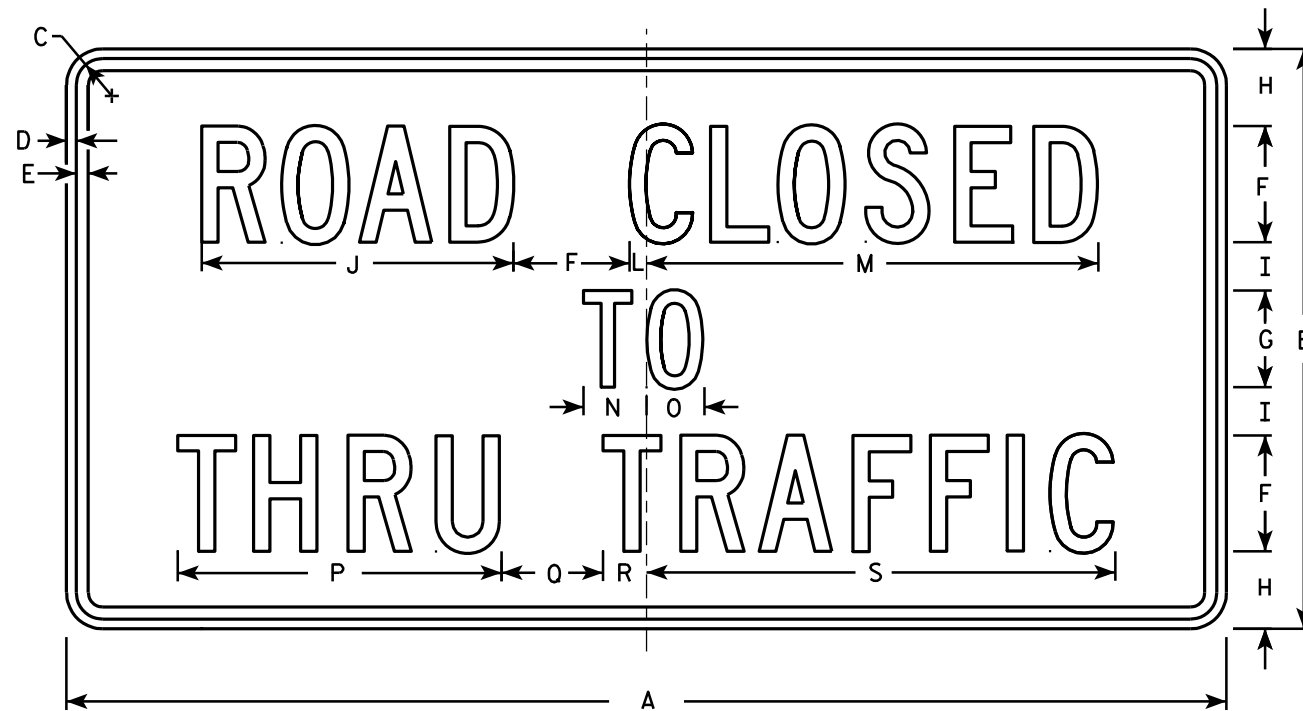
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/14/2021 PLATE NO. R11-3.9

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ **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. 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.



R11-4

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

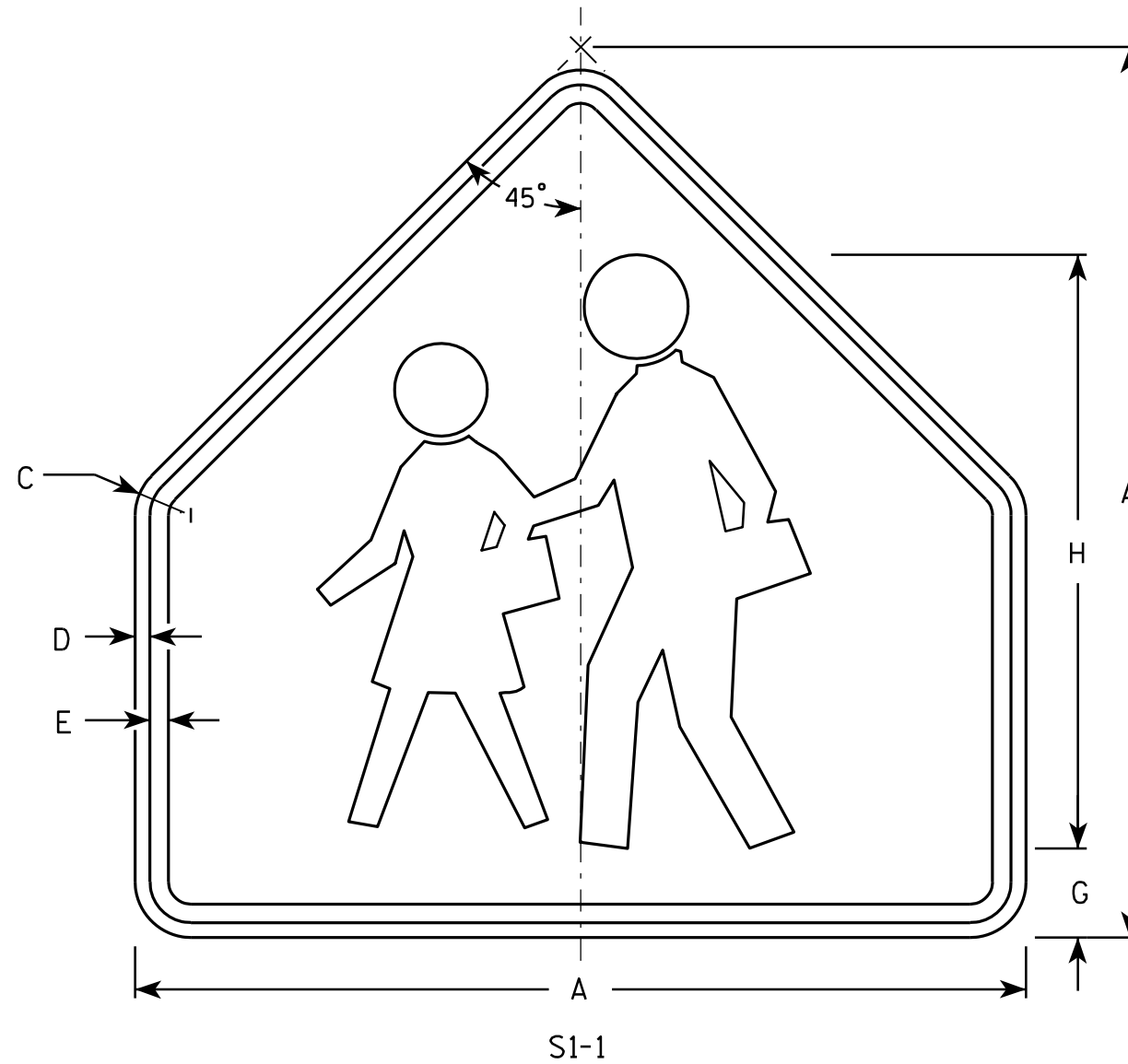
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Raush*
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ 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-Green
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.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

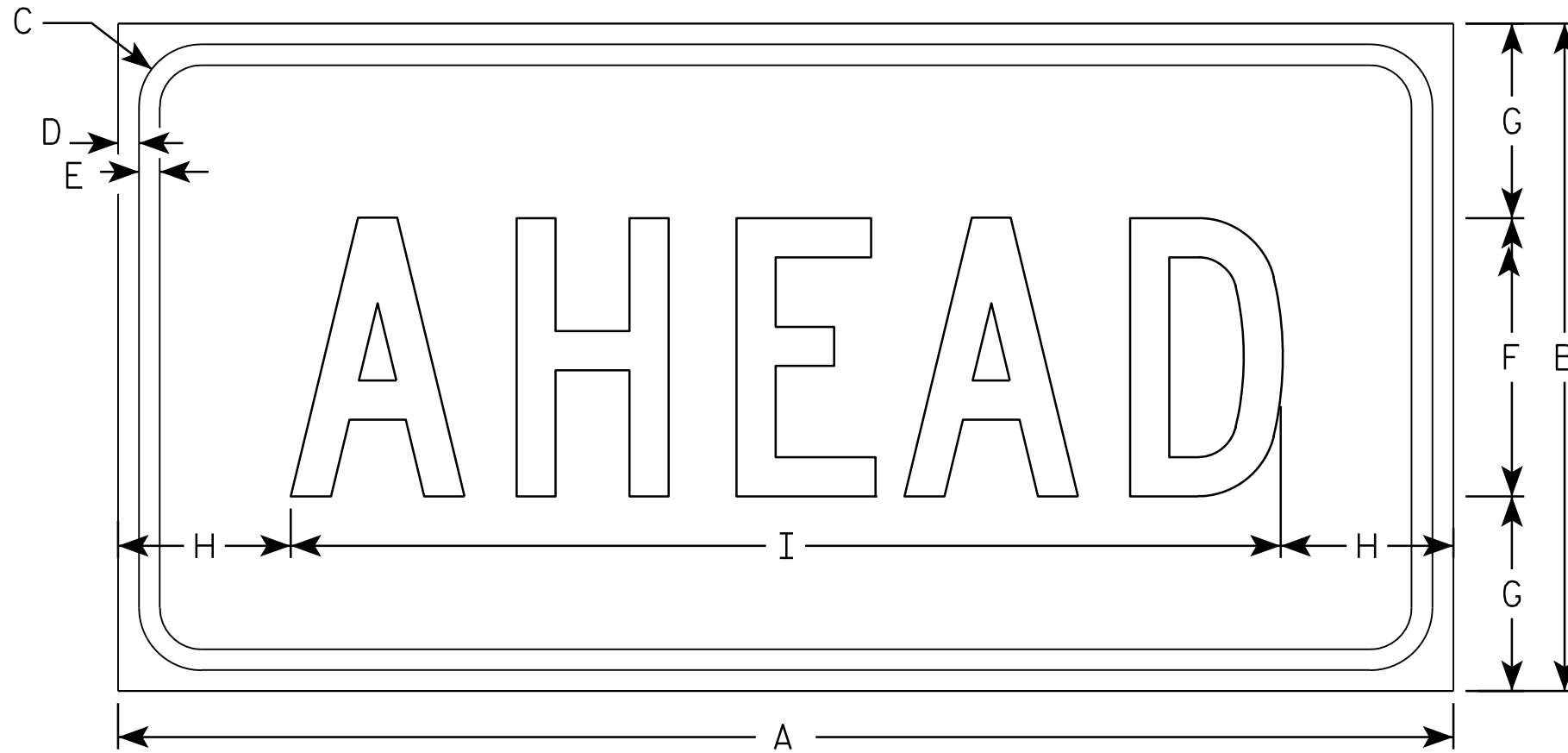
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ 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-Green
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.



S16-9P

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
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

S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

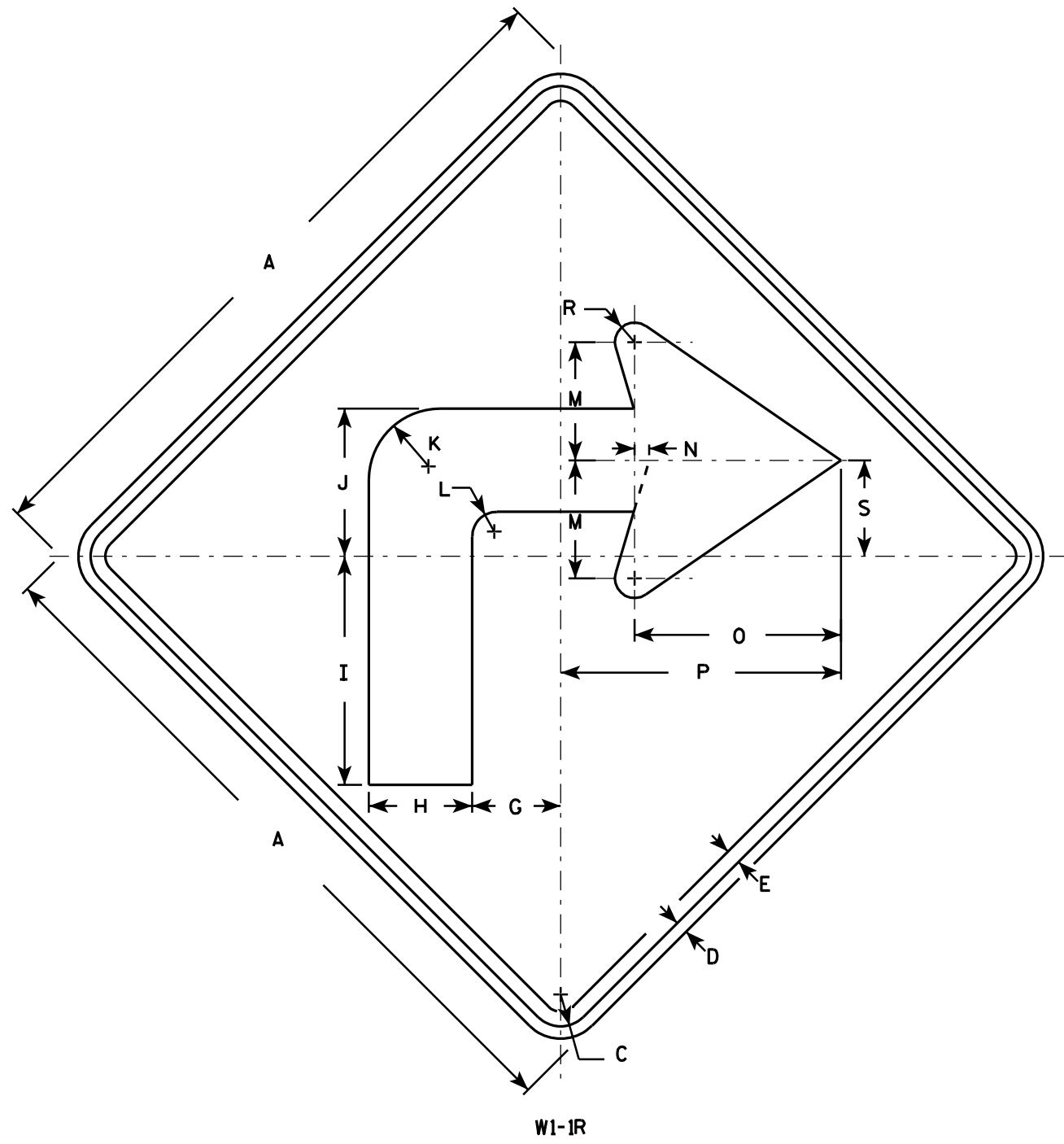
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

7

7

W1-1R

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

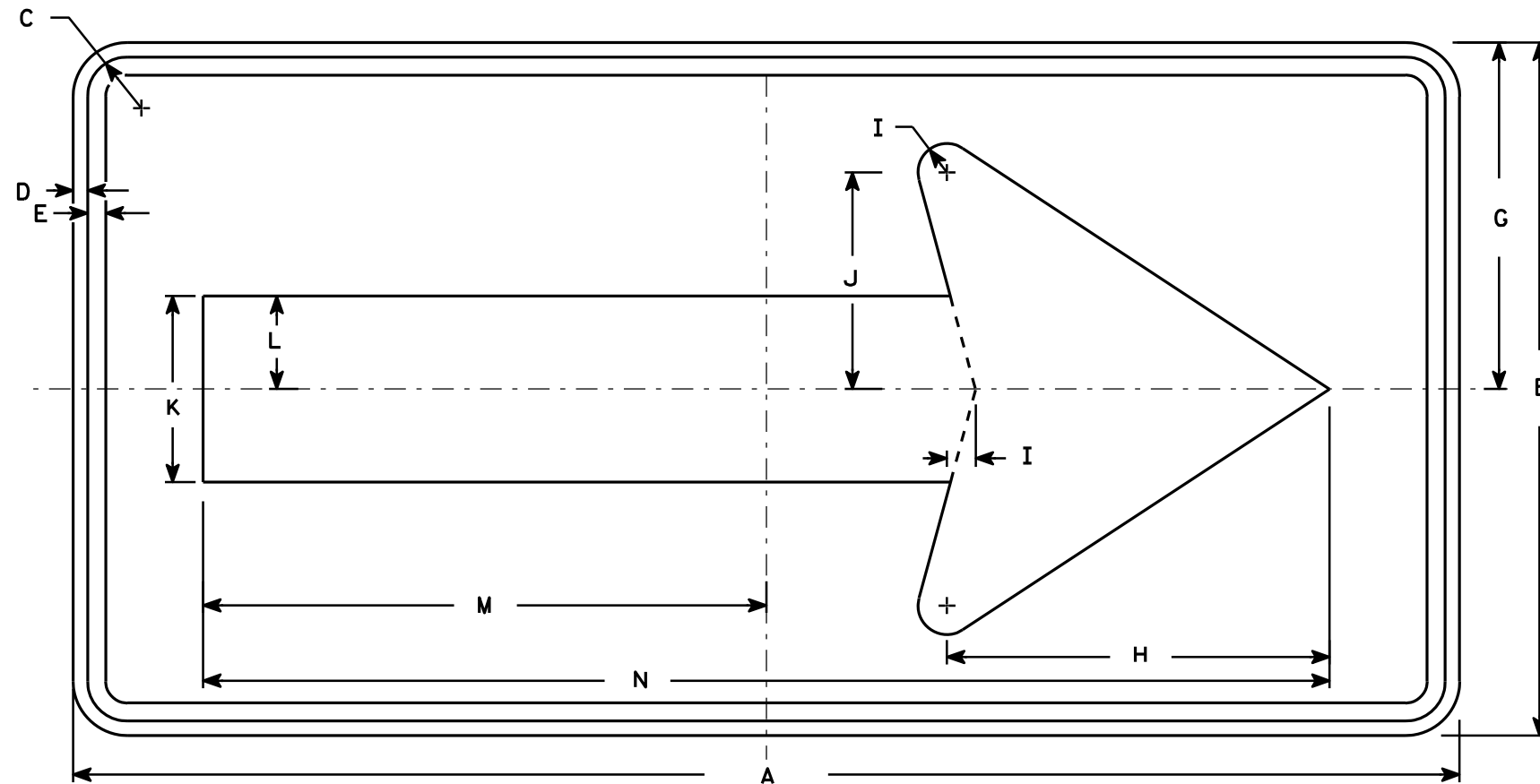
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ 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.



W1-6

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	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

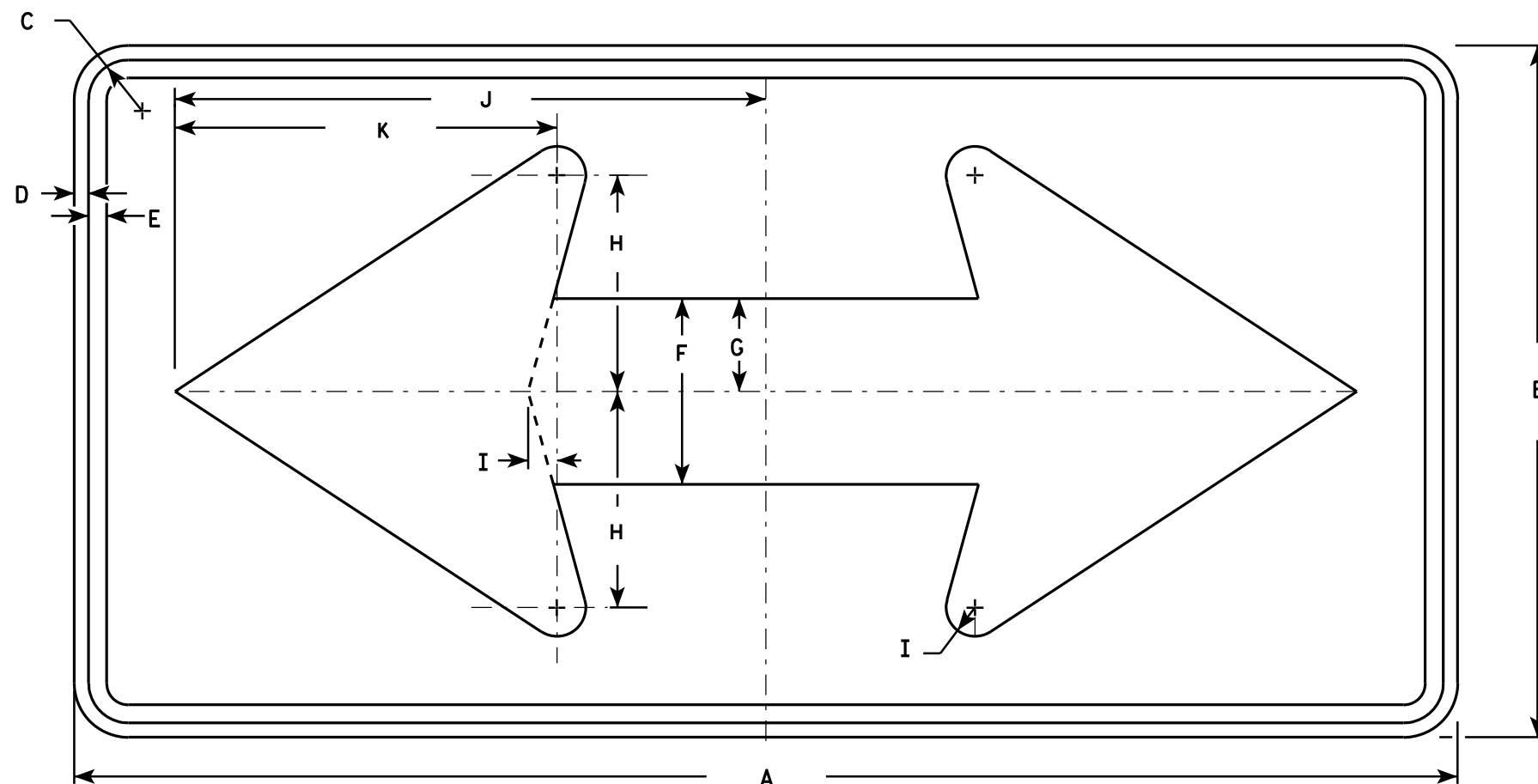
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____

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.



W1-7

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

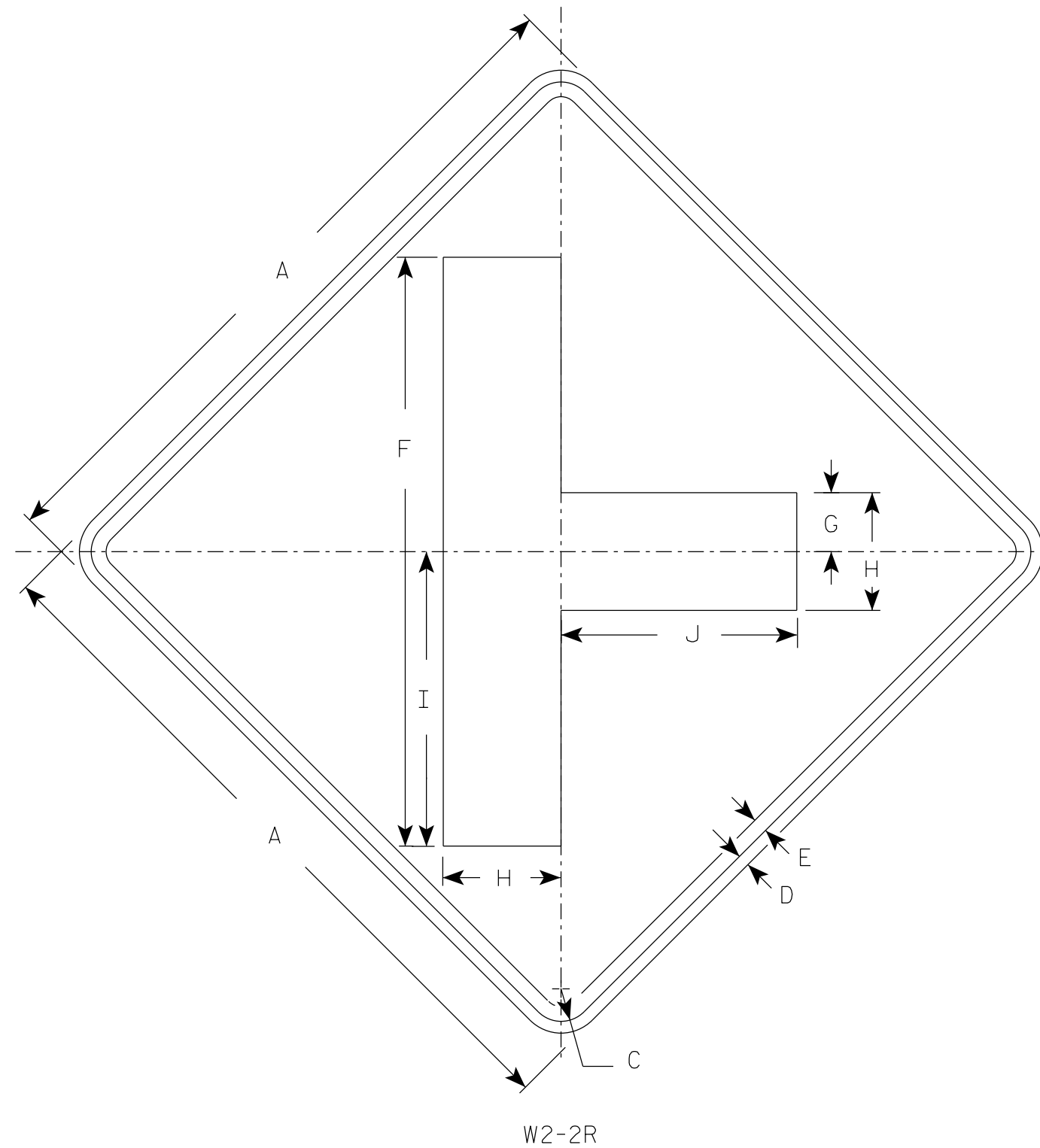
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Yellow
Message - Black
3. W2-2L same as W2-2R but is rotated 180° when mounted.



W2-2R

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	20	2	4	10	8																	4.0	
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																		6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																		6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																		9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																		16.0
5																												

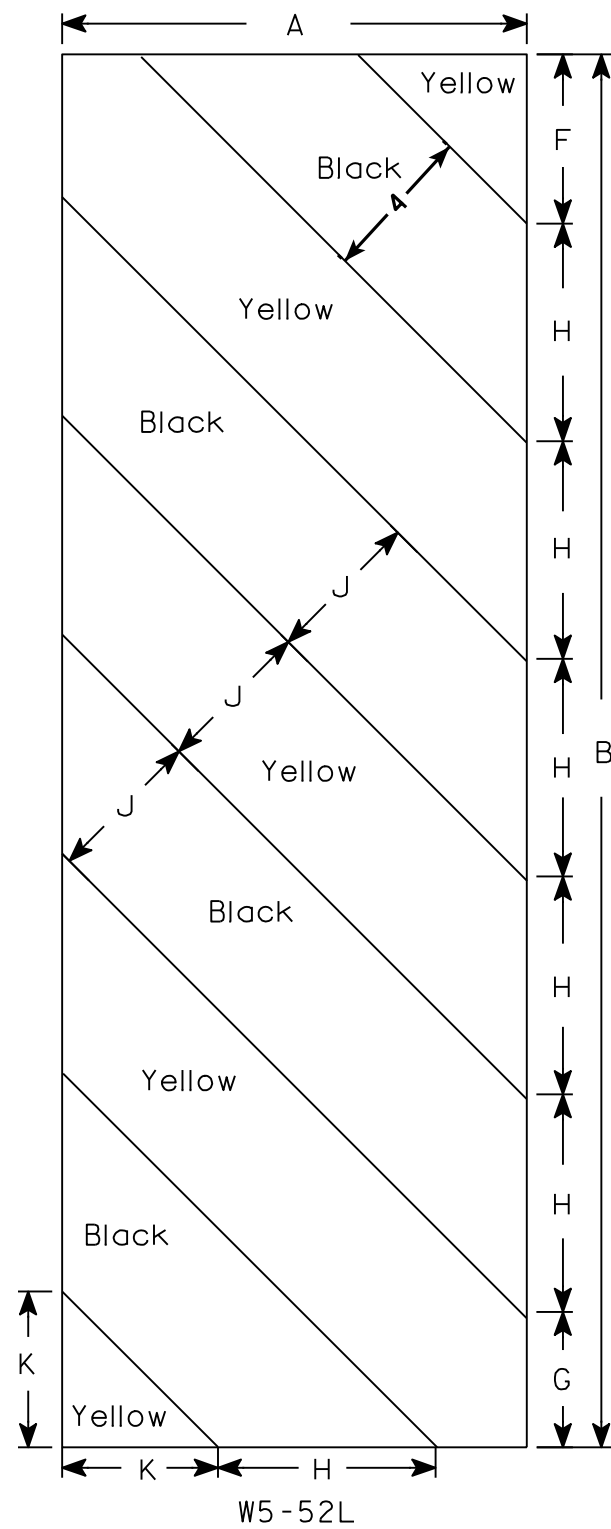
STANDARD SIGN
W2-2 L&R

WISCONSIN DEPT OF TRANSPORTATION

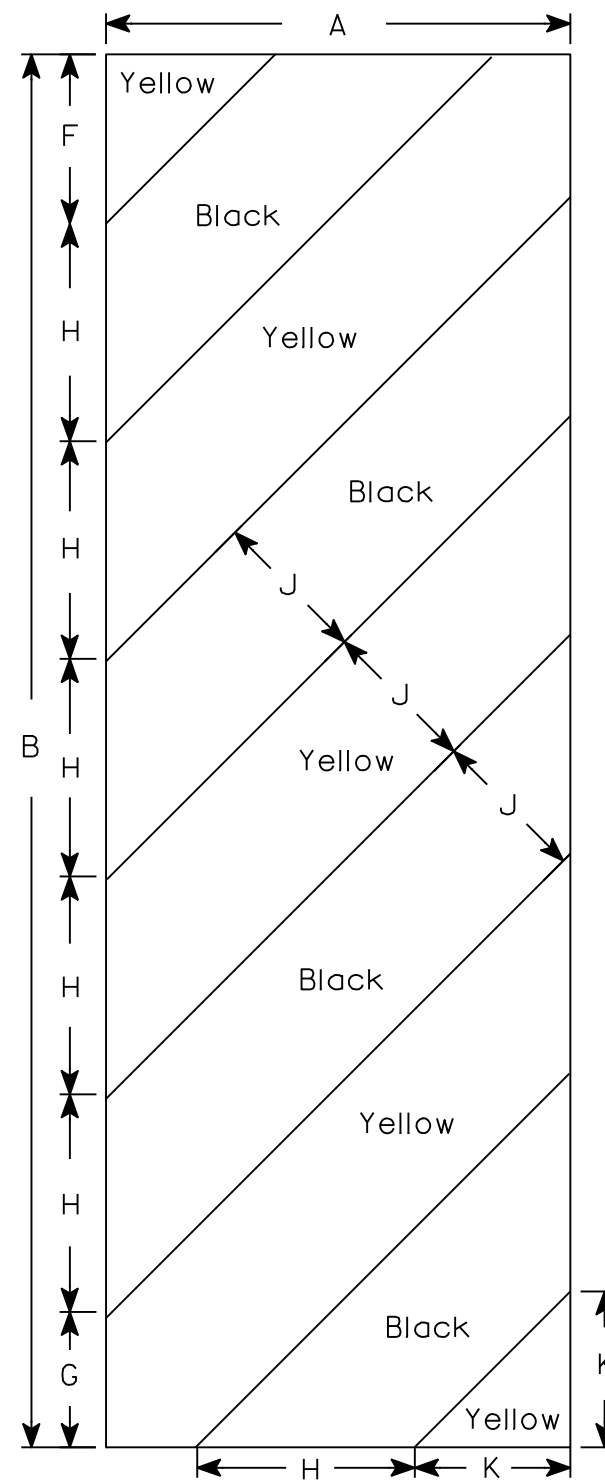
APPROVED *Matthew R Rauch*
for State Traffic Engineer

DATE 11/18/2021 PLATE NO. W2-2.7

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ **E**



W5-52L



W5-52R

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. Alternate colors of stripes as shown.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

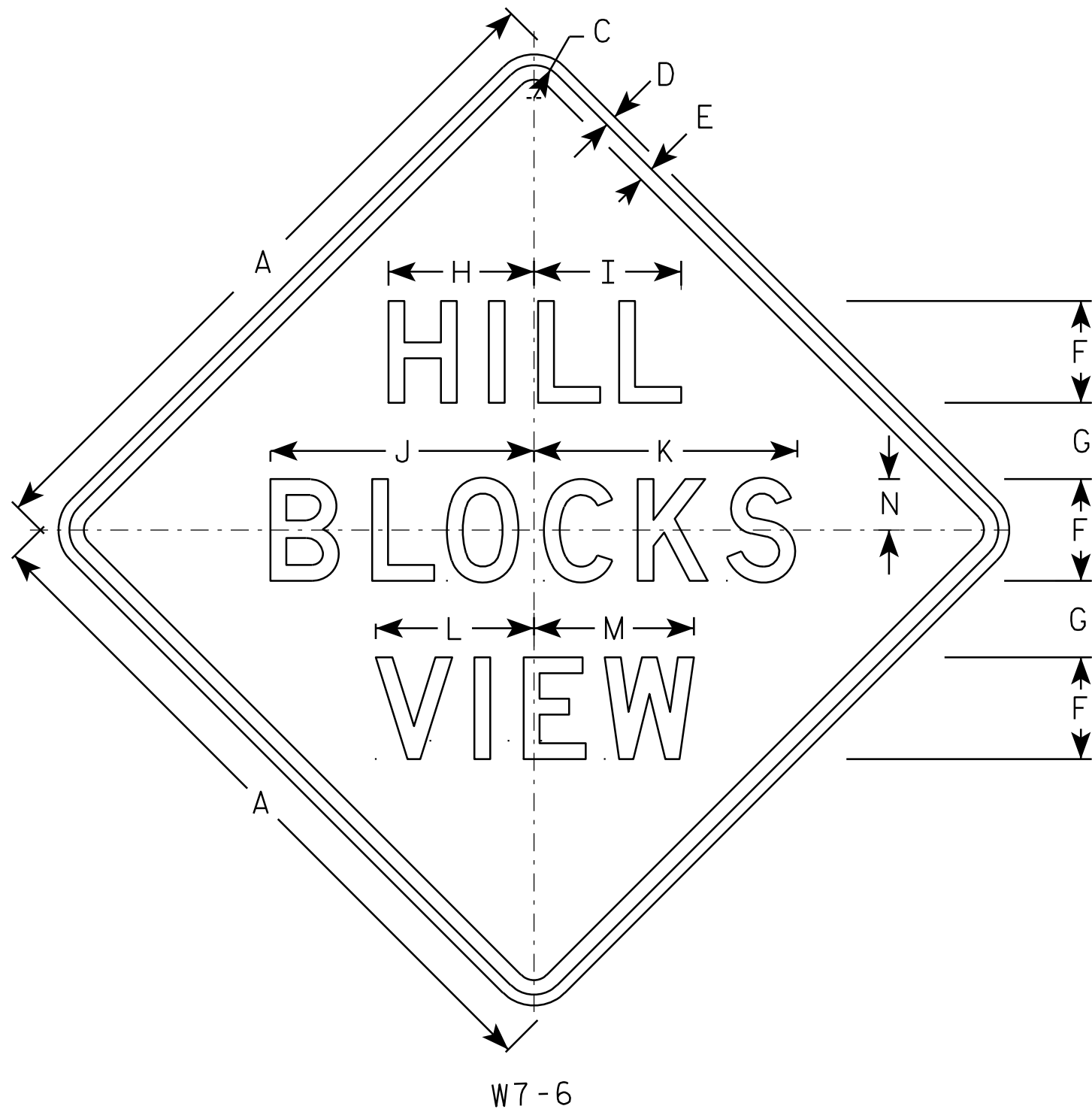
STANDARD SIGN
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ 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 - 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.

7

7

W7-6

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 1/8	1/2	5/8	5	3 3/4	6	8 3/8	12 7/8	13	7 7/8	7 3/4	2 1/2													6.25
2M	36		1 5/8	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
3	36		1 5/8	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
4	36		1 5/8	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
5	48		2 1/4	3/4	1	7	5 1/4	10	10 1/8	18 1/8	18 1/8	10 7/8	11	3 1/2													16.0

STANDARD SIGN
W7-6

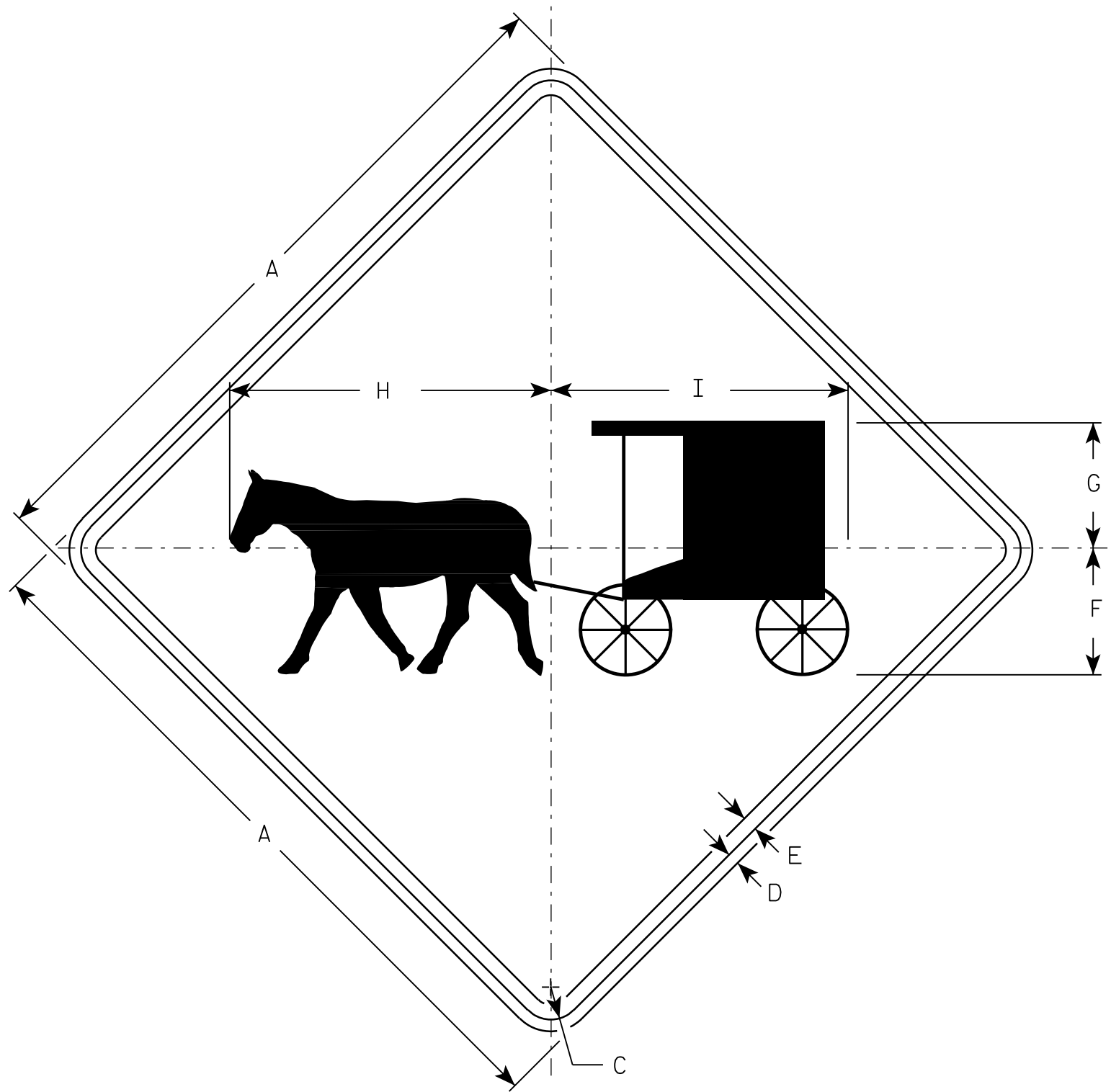
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W7-6.3

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.



W11-12

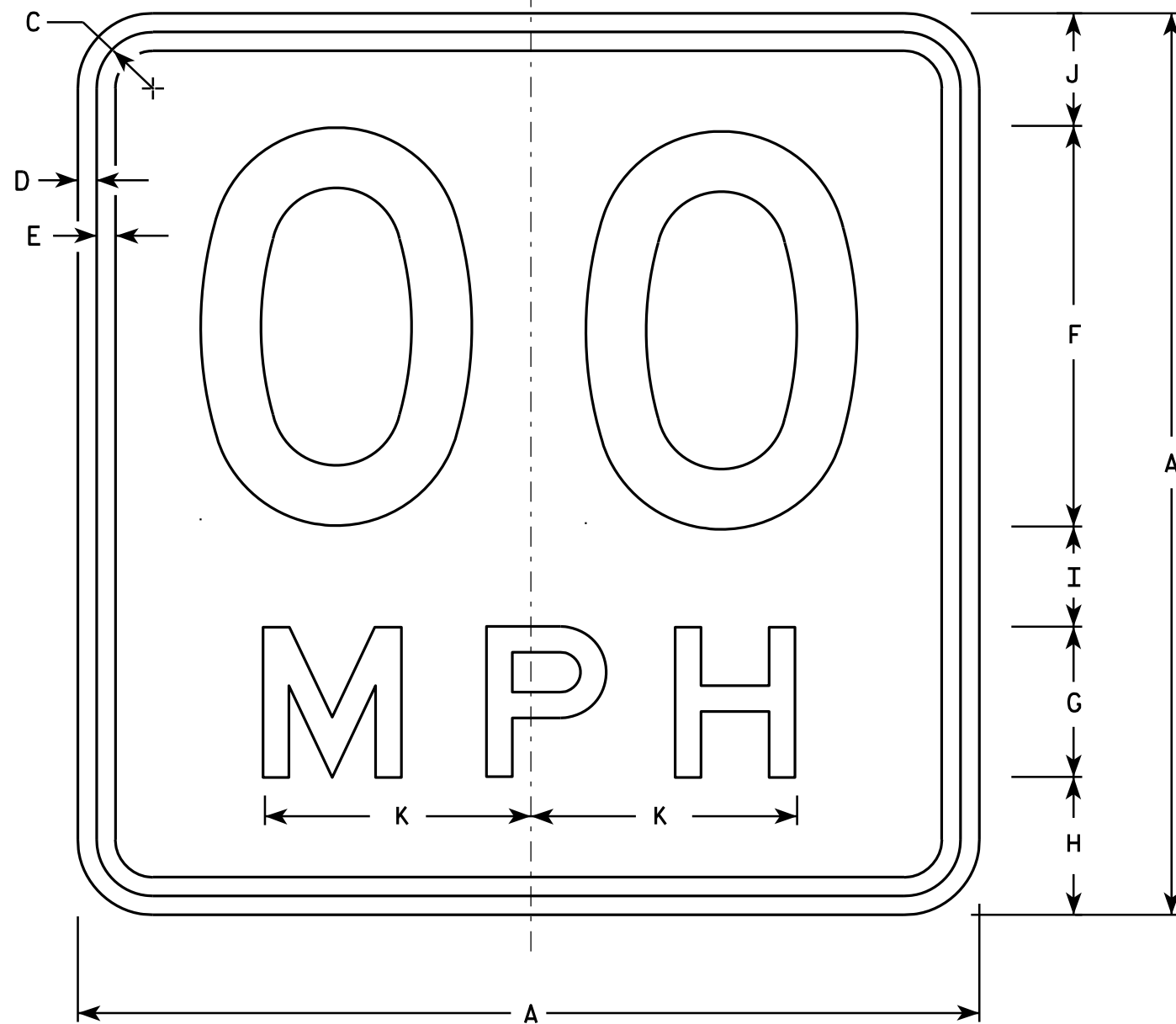
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5 3/8	5 1/4	13 5/8	12 5/8																		6.25
2S	36		1 5/8	5/8	3/4	6 1/2	6 3/8	16 3/8	15 1/8																		9.0
2M	36		1 5/8	5/8	3/4	6 1/2	6 3/8	16 3/8	15 1/8																		9.0
3	48		2 1/4	3/4	1	8 5/8	8 1/2	21 7/8	20 1/8																		16.0
4																											
5																											

STANDARD SIGN
W11-12

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-12.4



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

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.

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

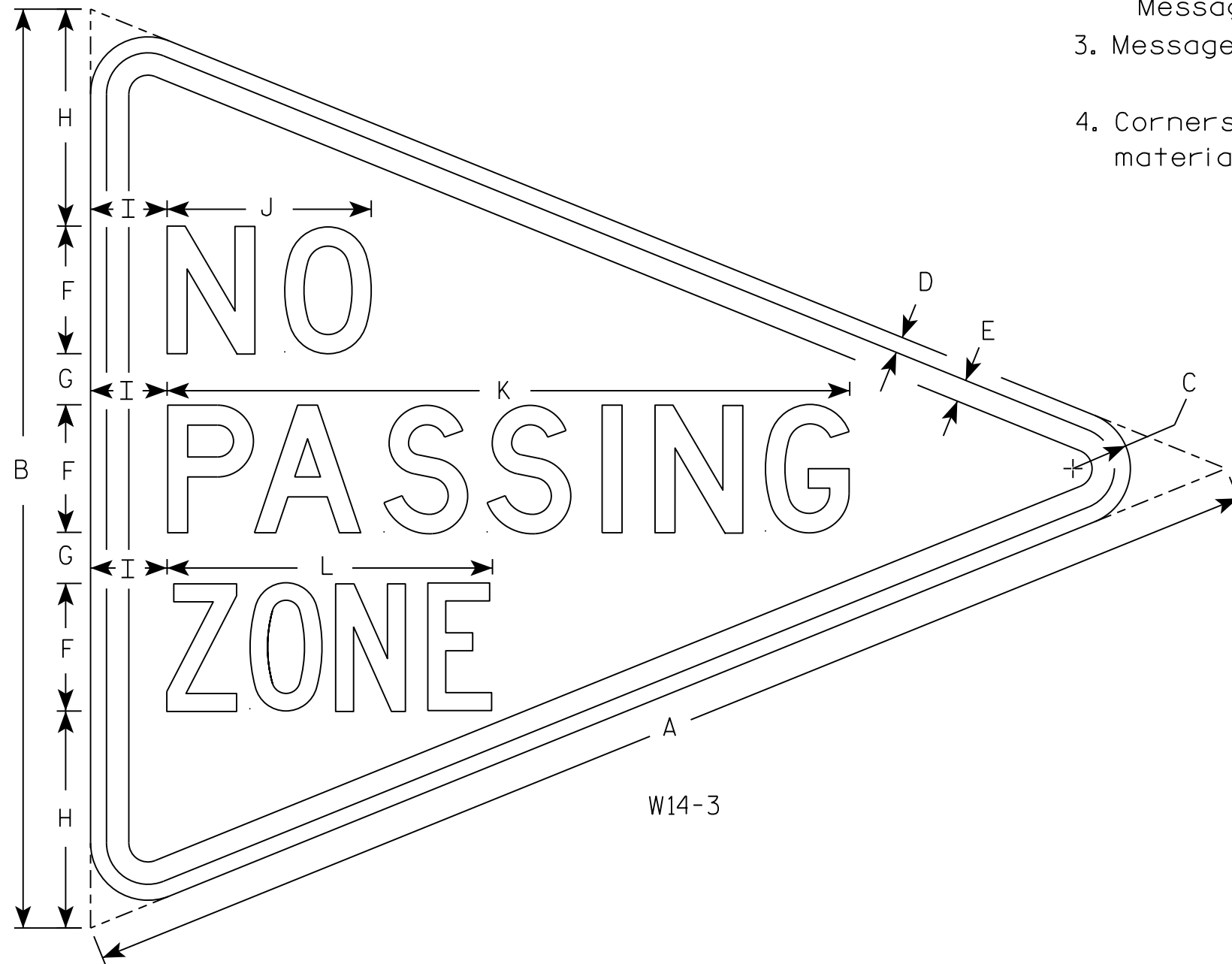
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Yellow
Message - Black
3. Message Series - Lines 1 and 2 are Series D.
Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



7

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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	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

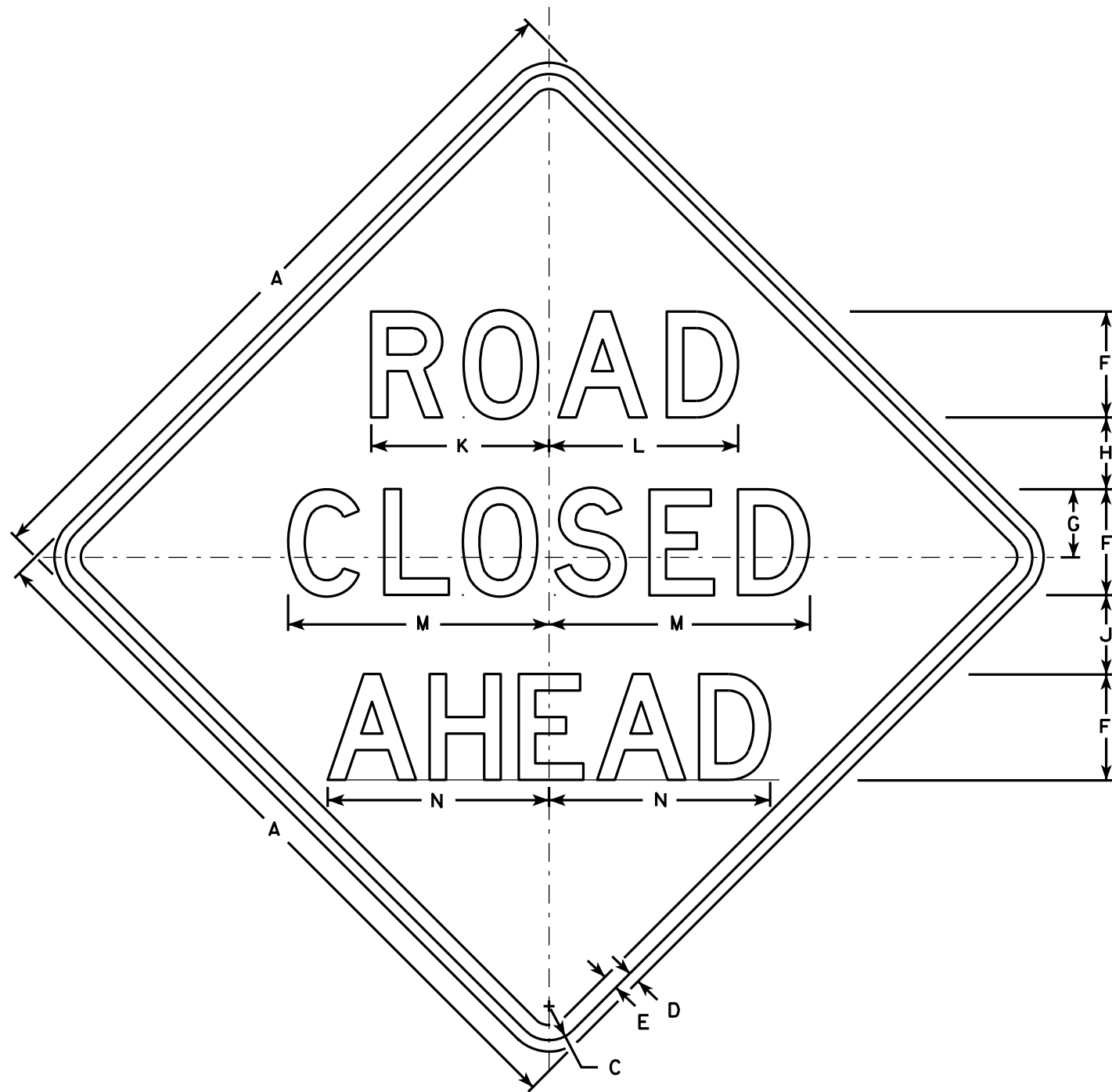
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

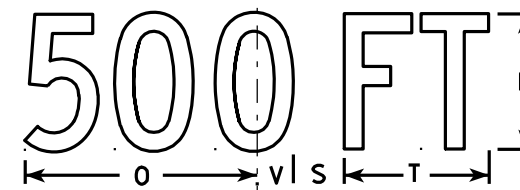
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

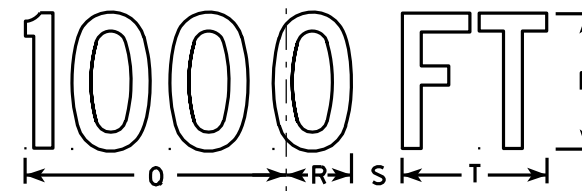
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



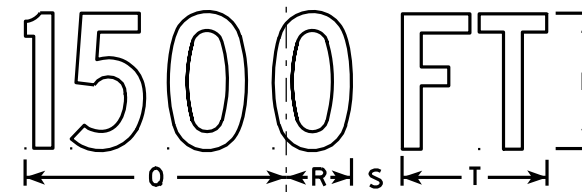
W20-3A



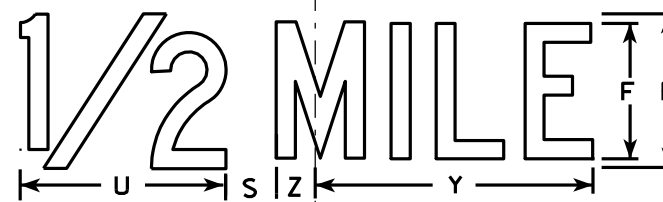
W20-3D



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.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	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

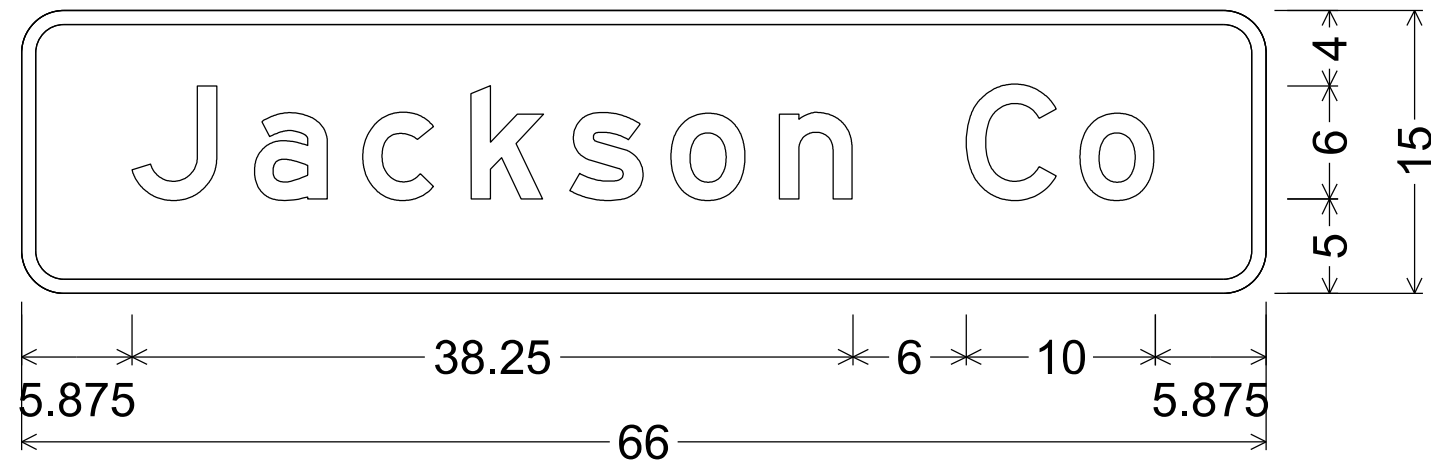
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E



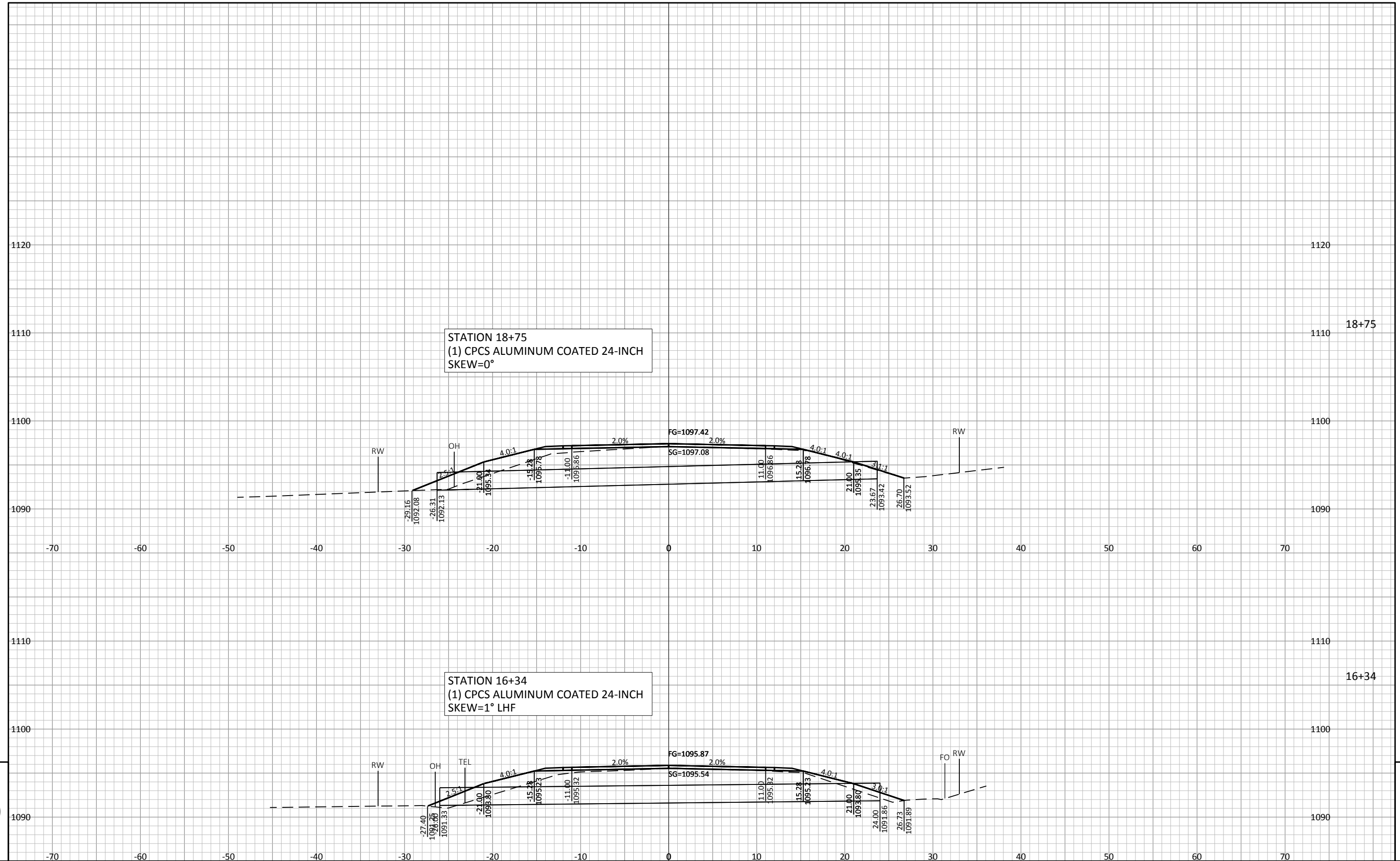
I2-2; 2.250" Radius, 0.750" Border

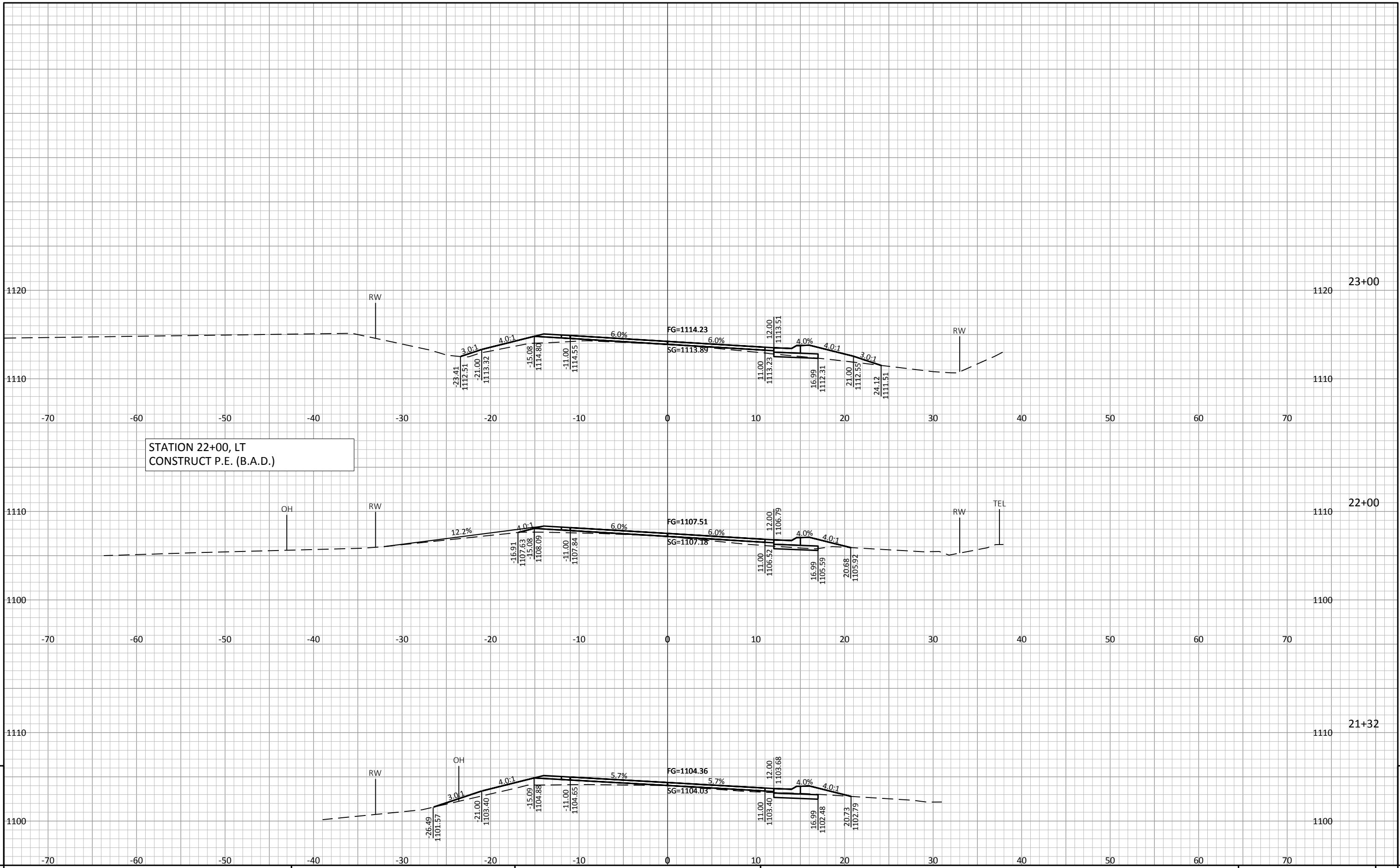


I2-2; 2.250" Radius, 0.750" Border

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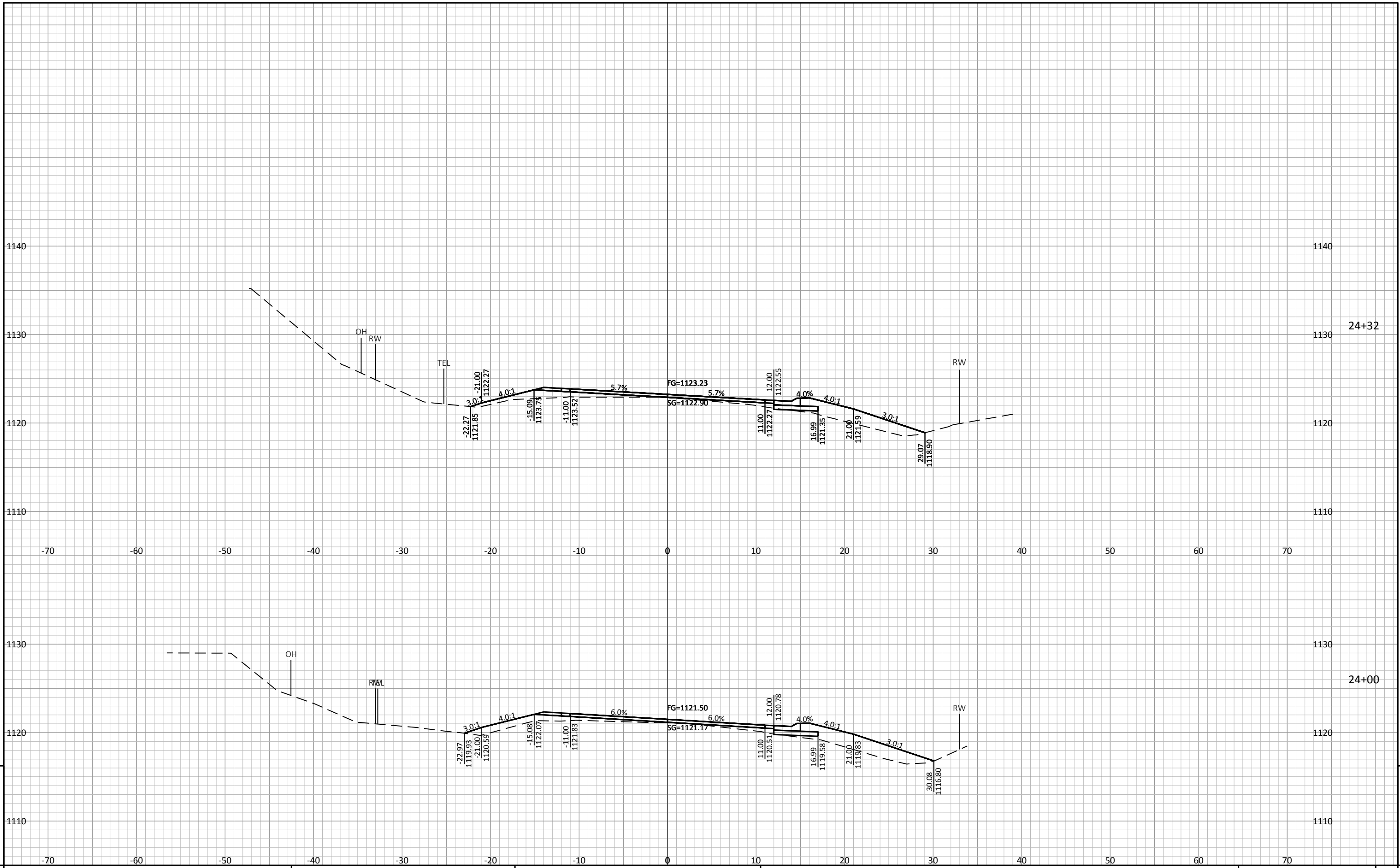




STATION 22+00, LT
CONSTRUCT P.E. (B.A.D.)

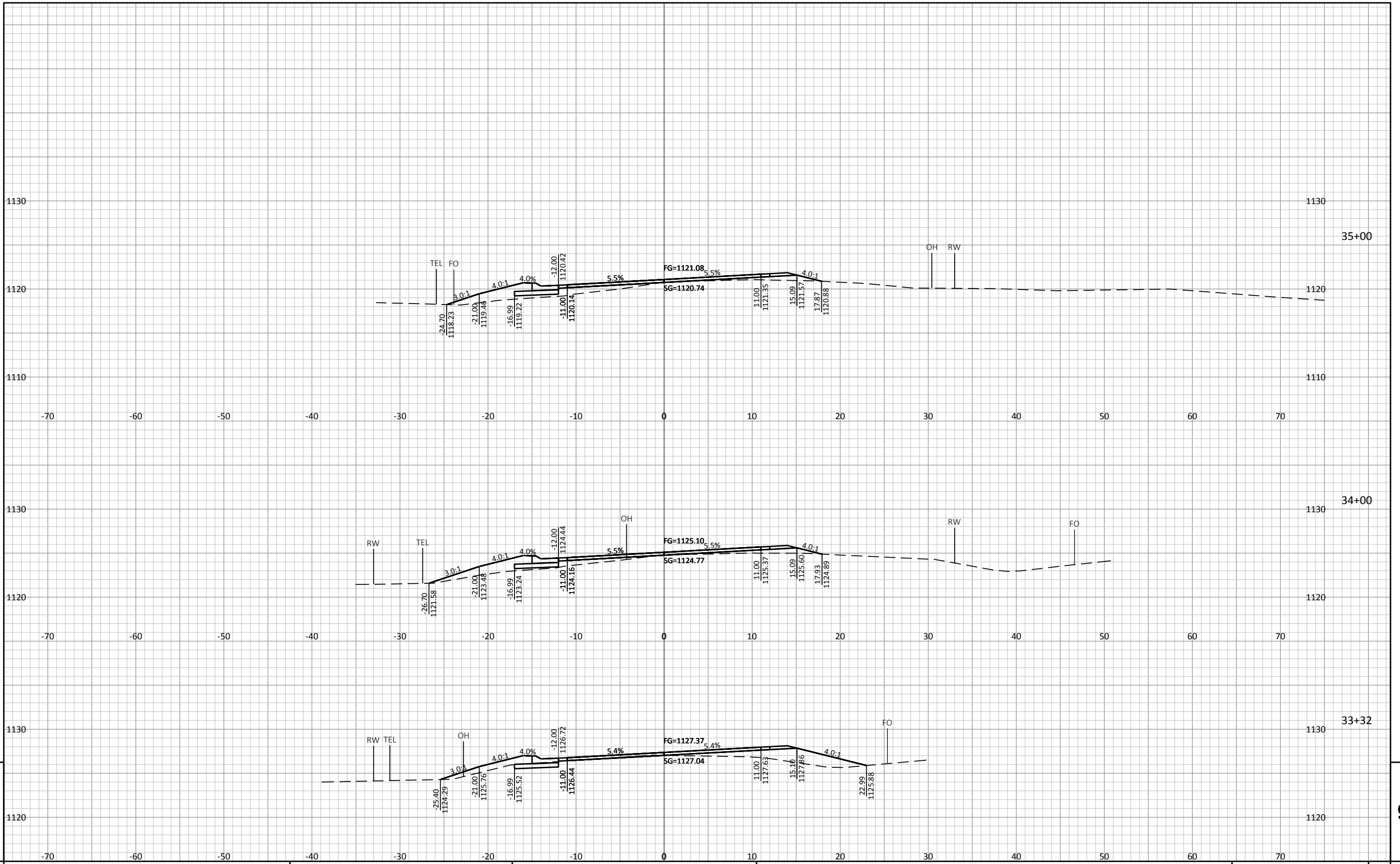
9

9



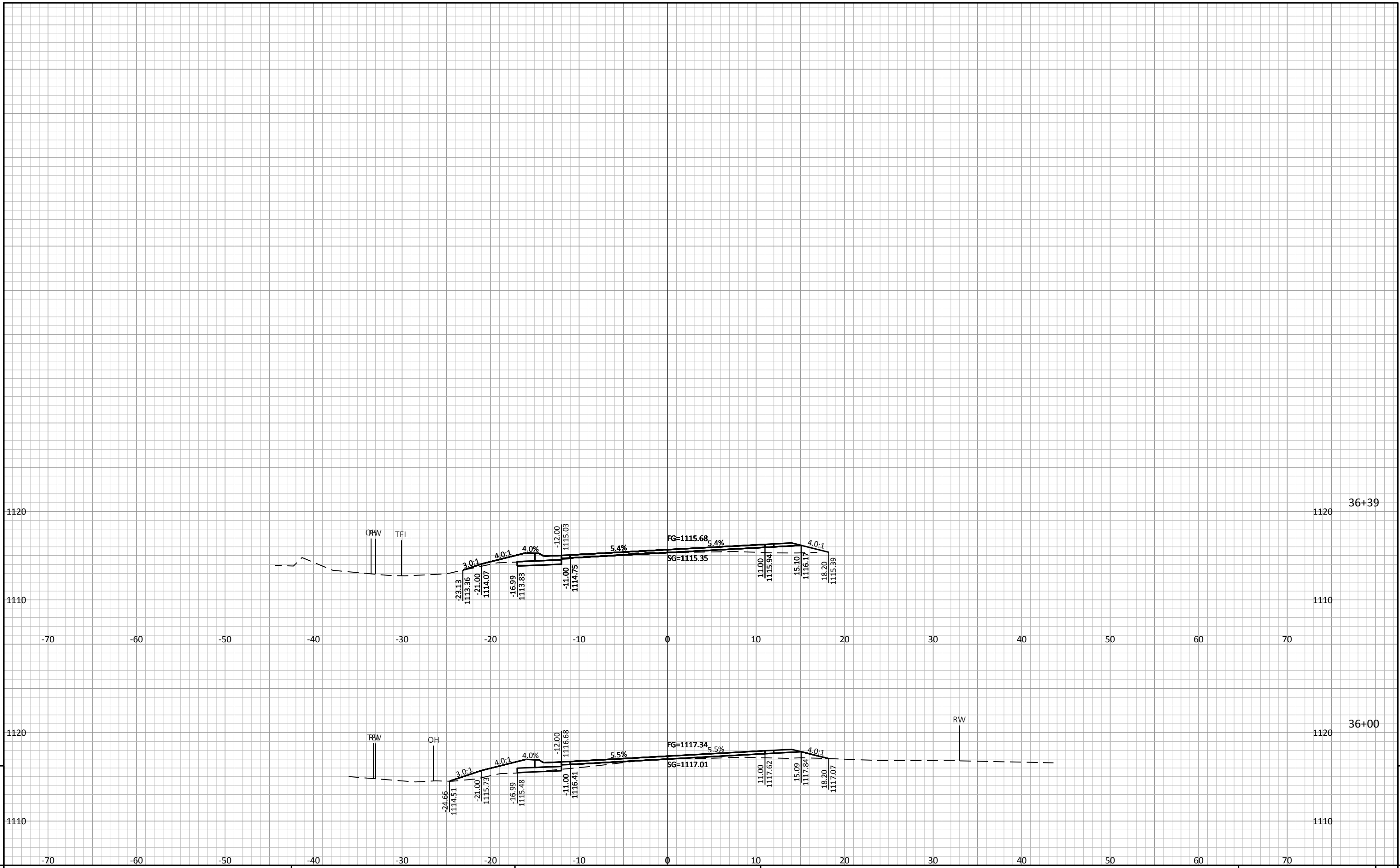
9

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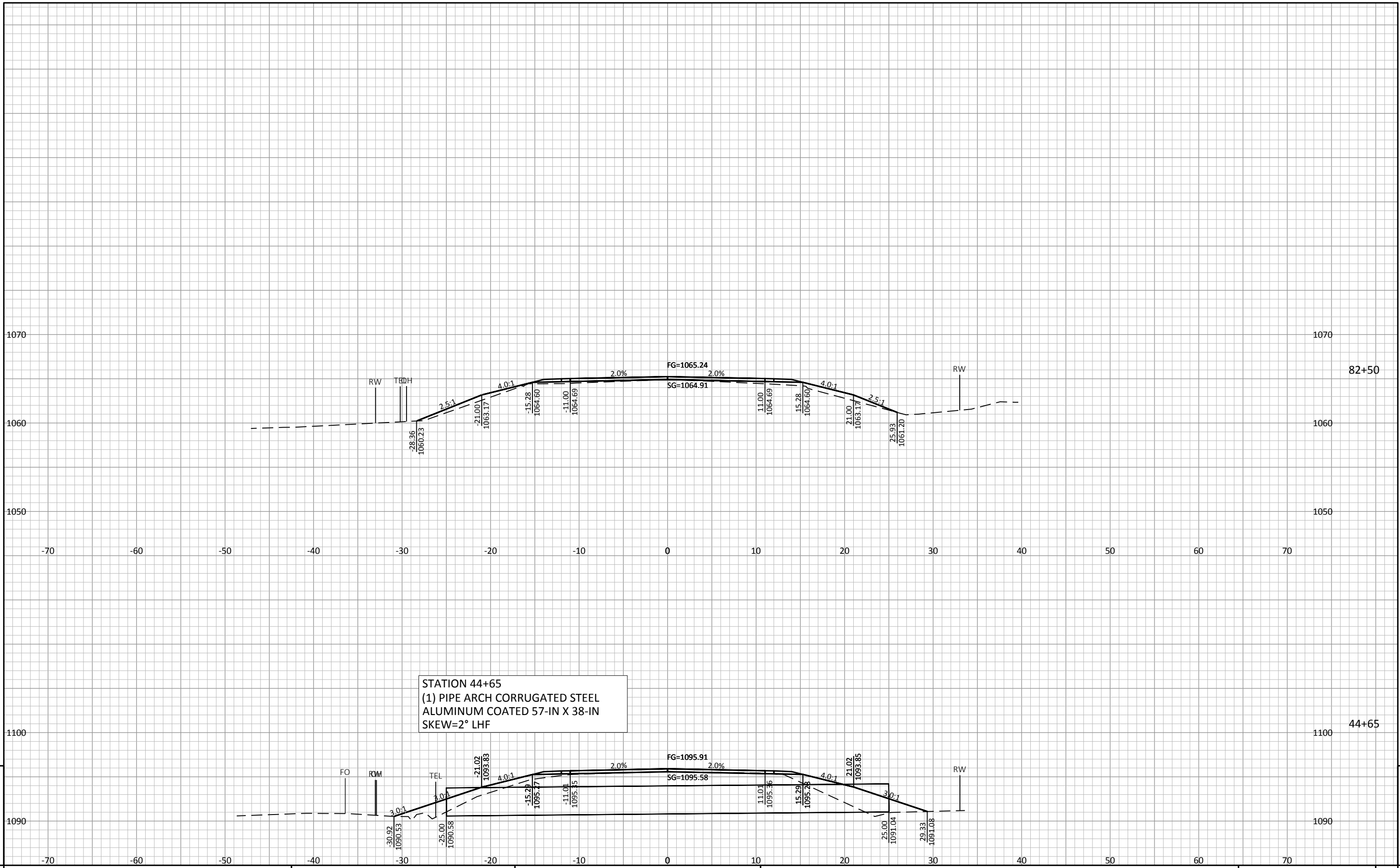
9

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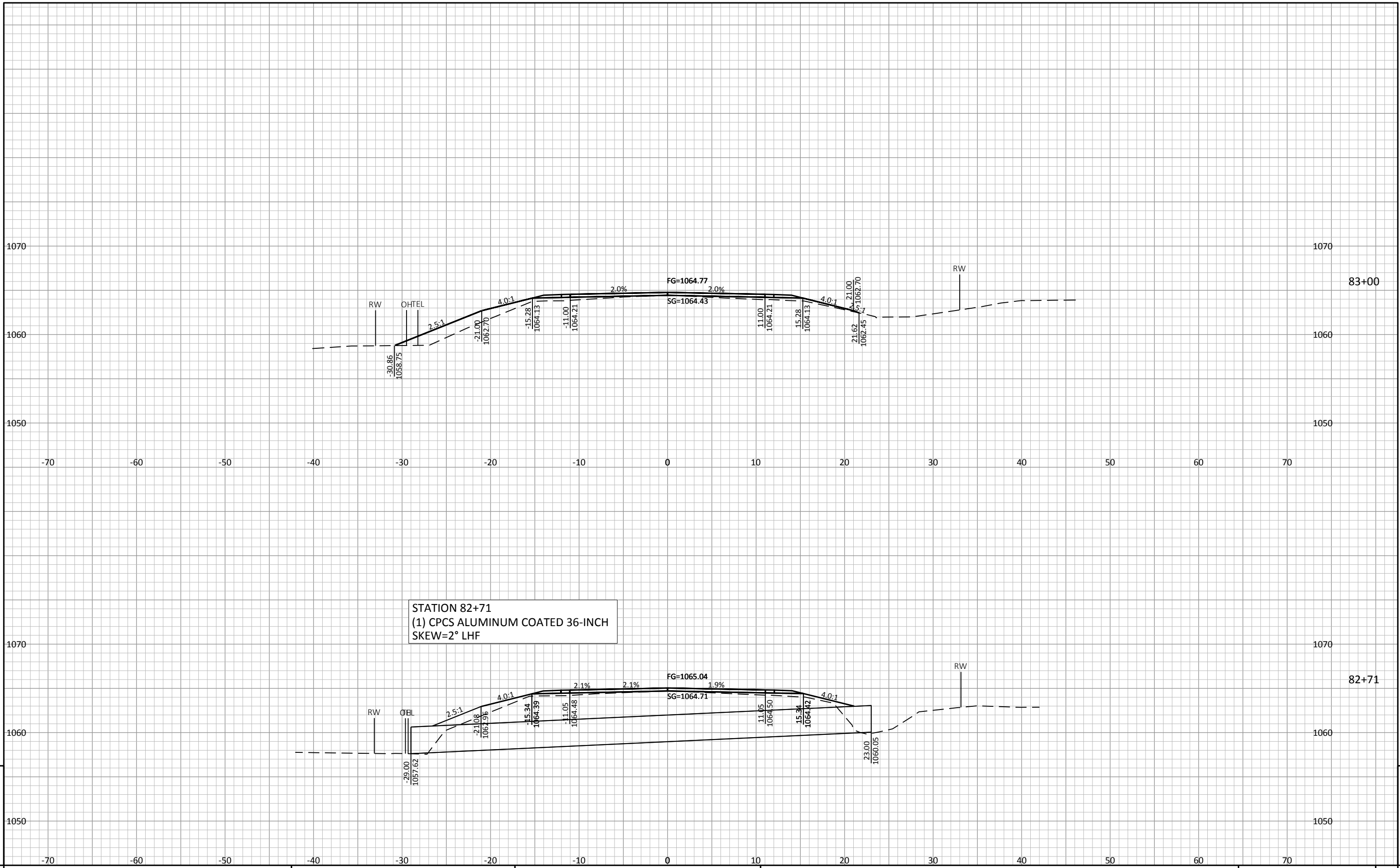


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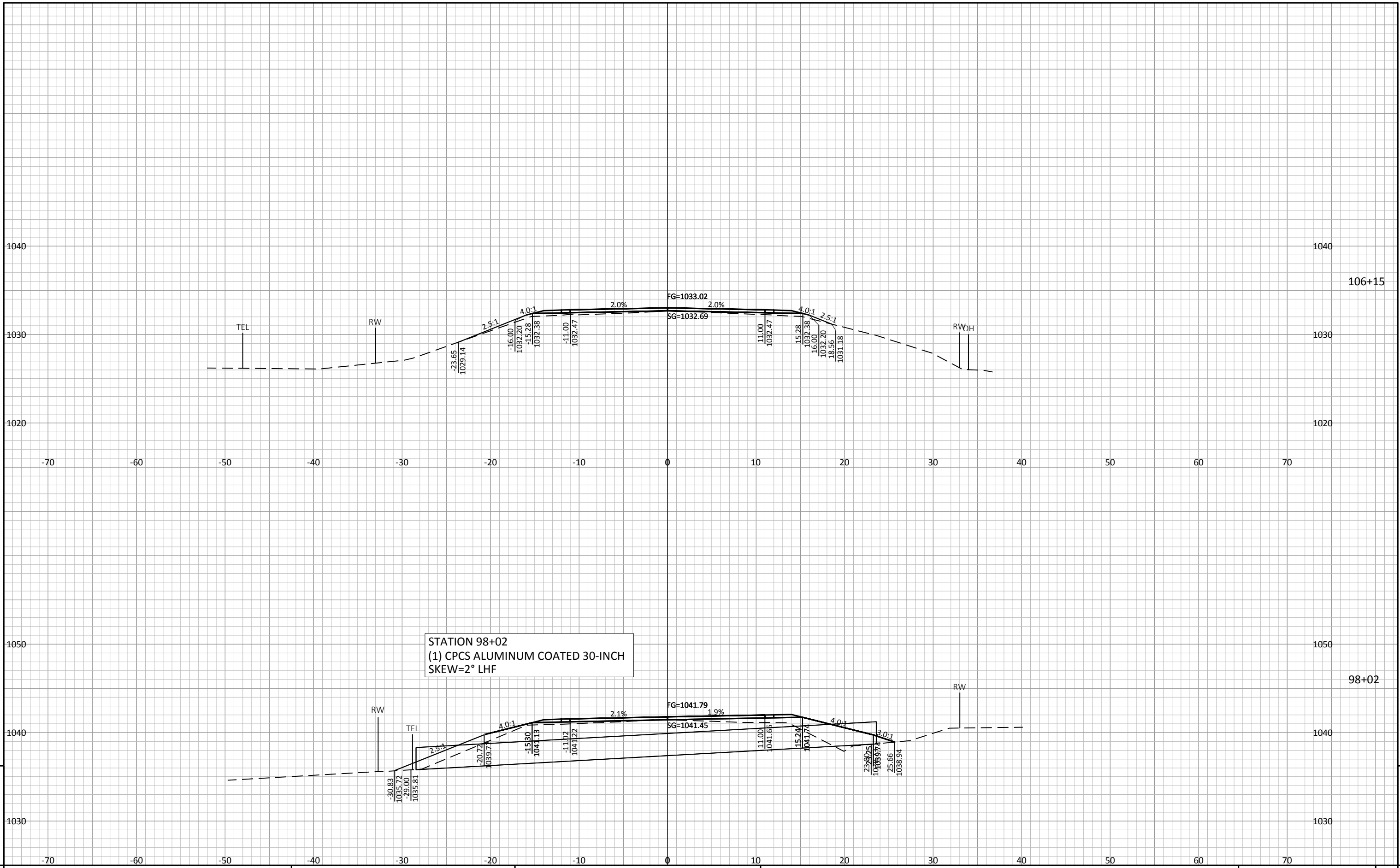
STATION 44+65
 (1) PIPE ARCH CORRUGATED STEEL
 ALUMINUM COATED 57-IN X 38-IN
 SKEW=2° LHF



STATION 82+71
(1) CPCS ALUMINUM COATED 36-INCH
SKEW=2° LHF

9

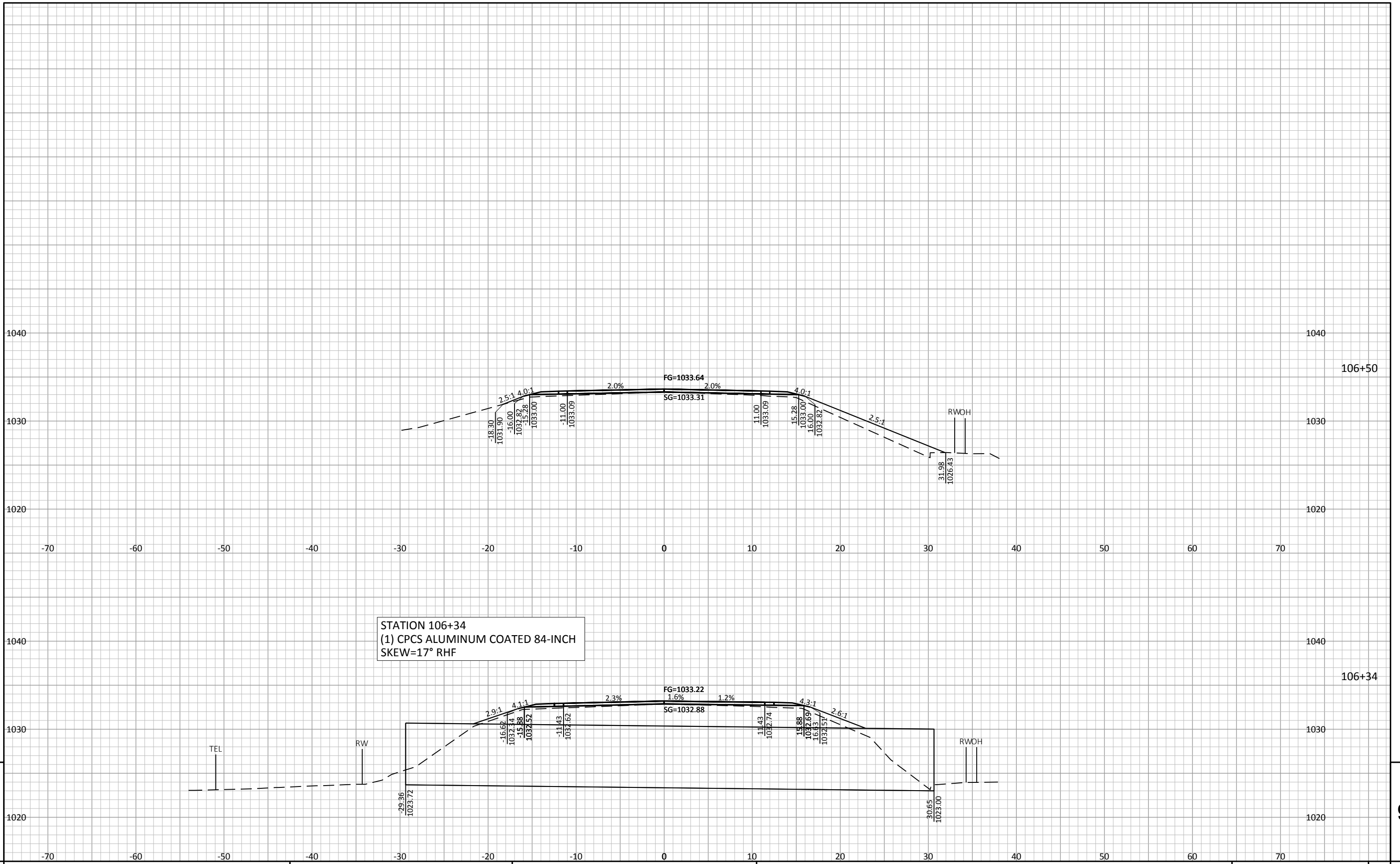
9



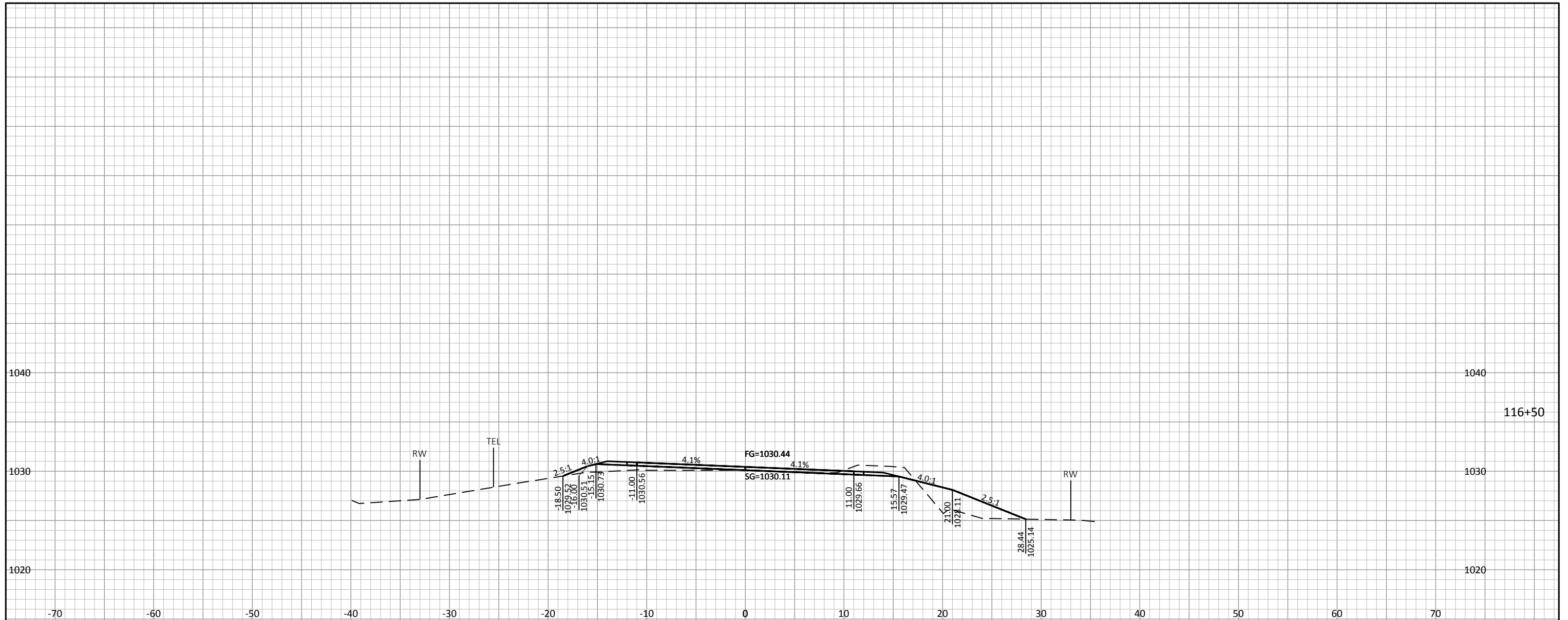
STATION 98+02
 (1) CPCS ALUMINUM COATED 30-INCH
 SKEW=2° LHF

9

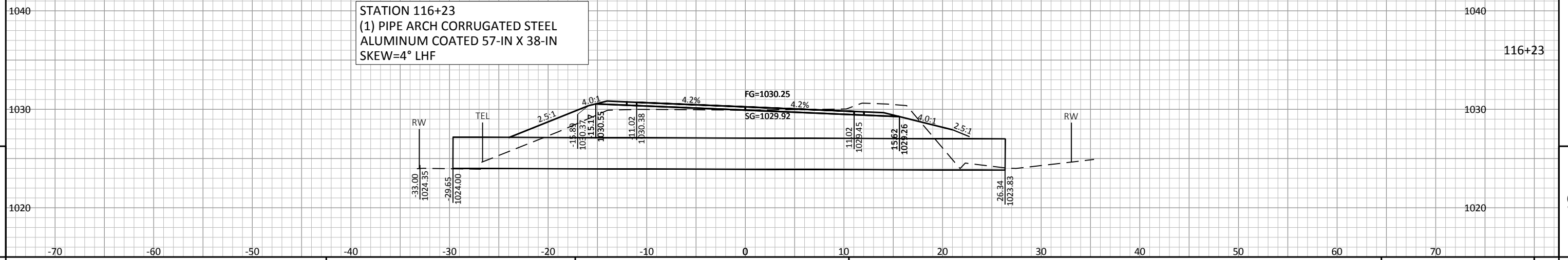
9

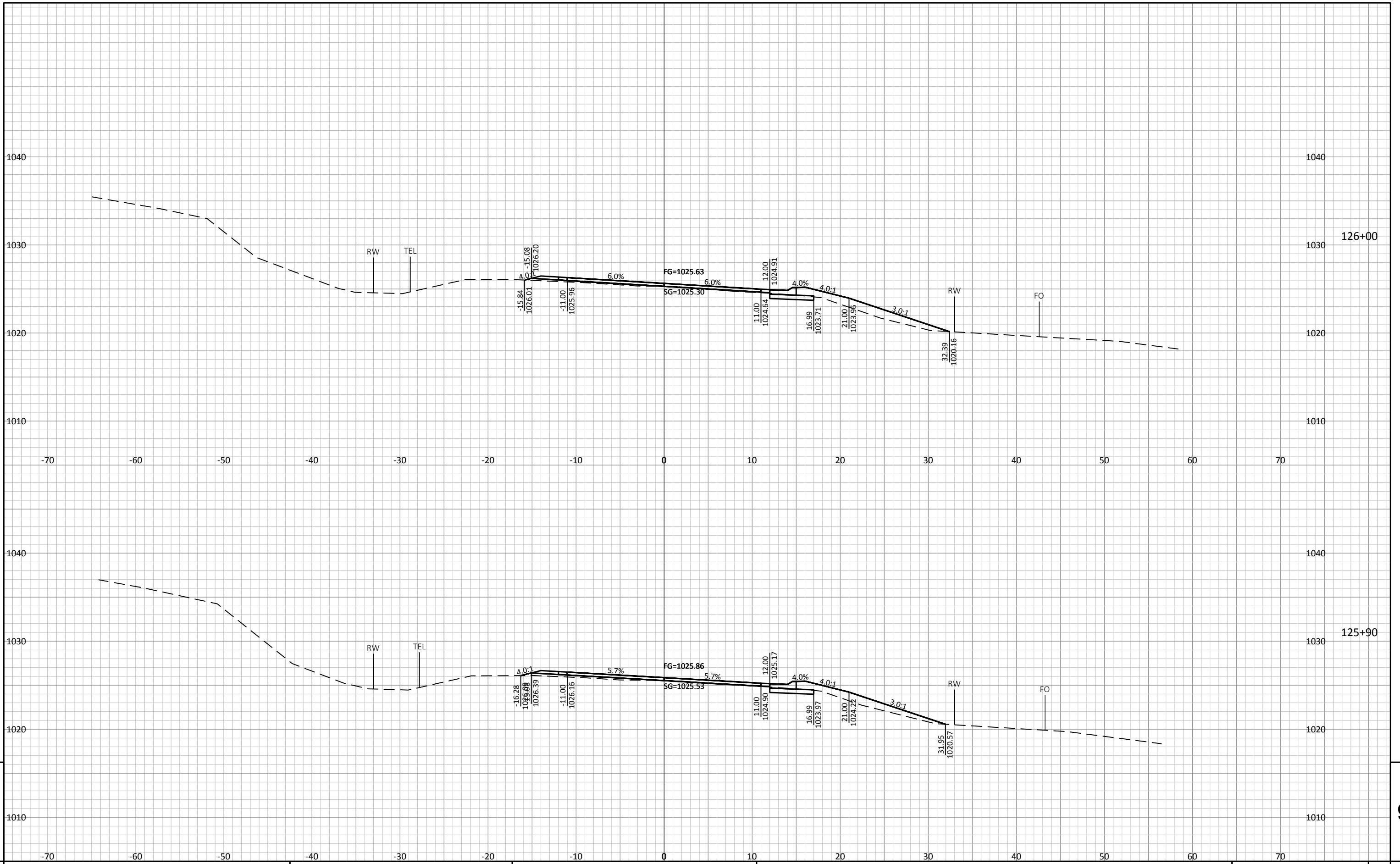


STATION 106+34
 (1) CPCS ALUMINUM COATED 84-INCH
 SKEW=17° RHF



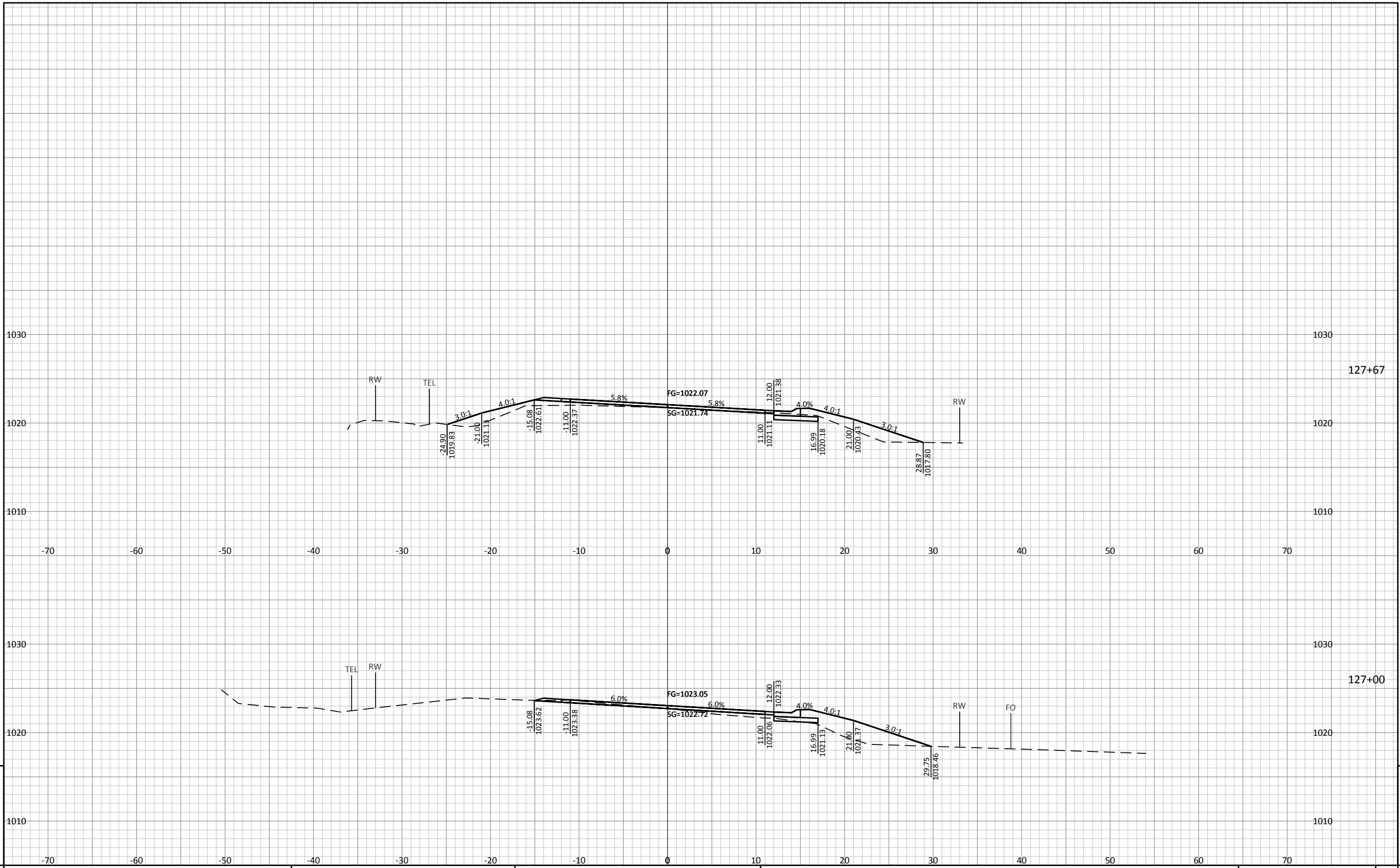
STATION 116+23
 (1) PIPE ARCH CORRUGATED STEEL
 ALUMINUM COATED 57-IN X 38-IN
 SKEW=4° LHF





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PROJECT NO: 7831-06-70

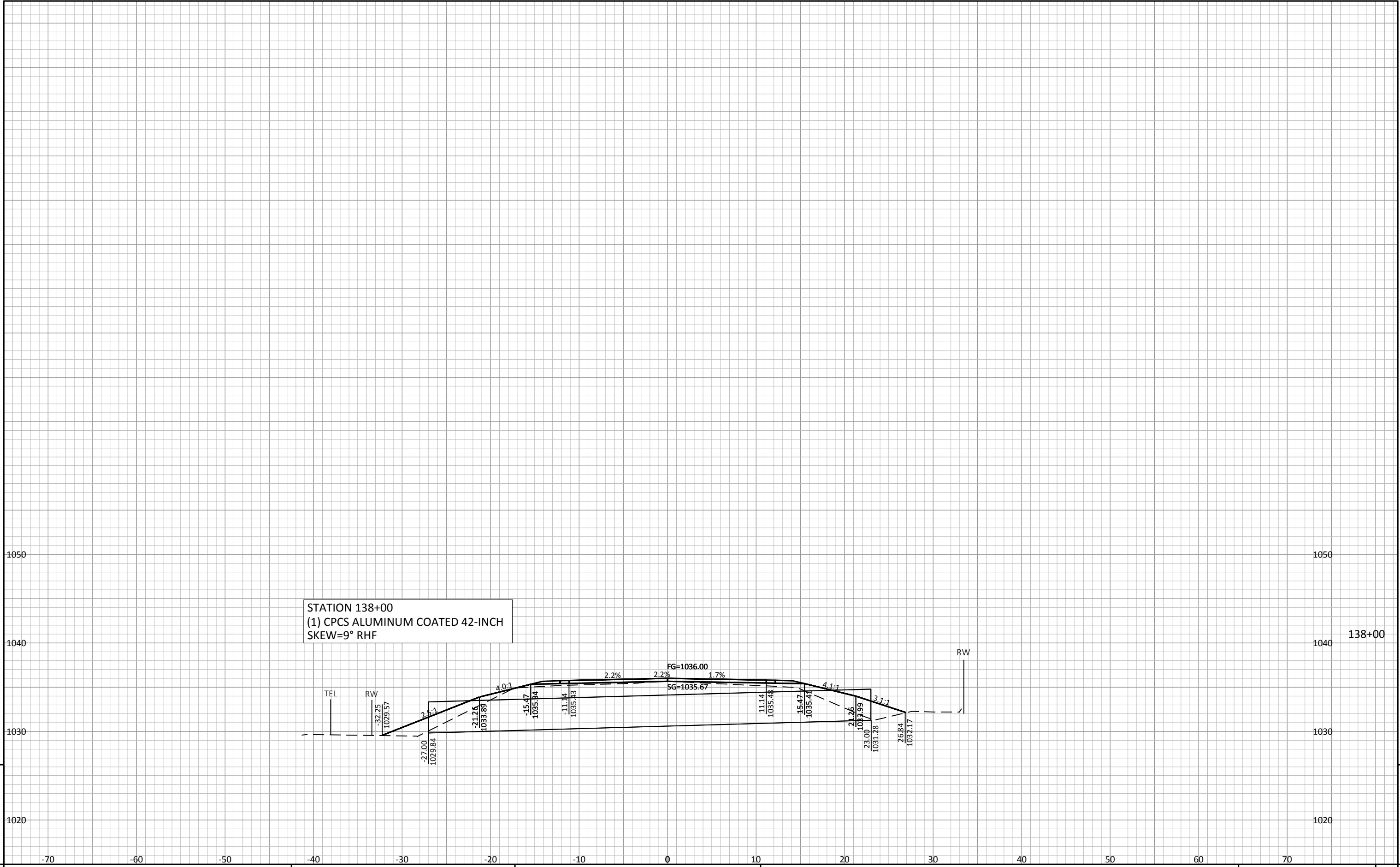
HWY: CTH M

COUNTY: EAU CLAIRE

CROSS SECTIONS: MAINLINE

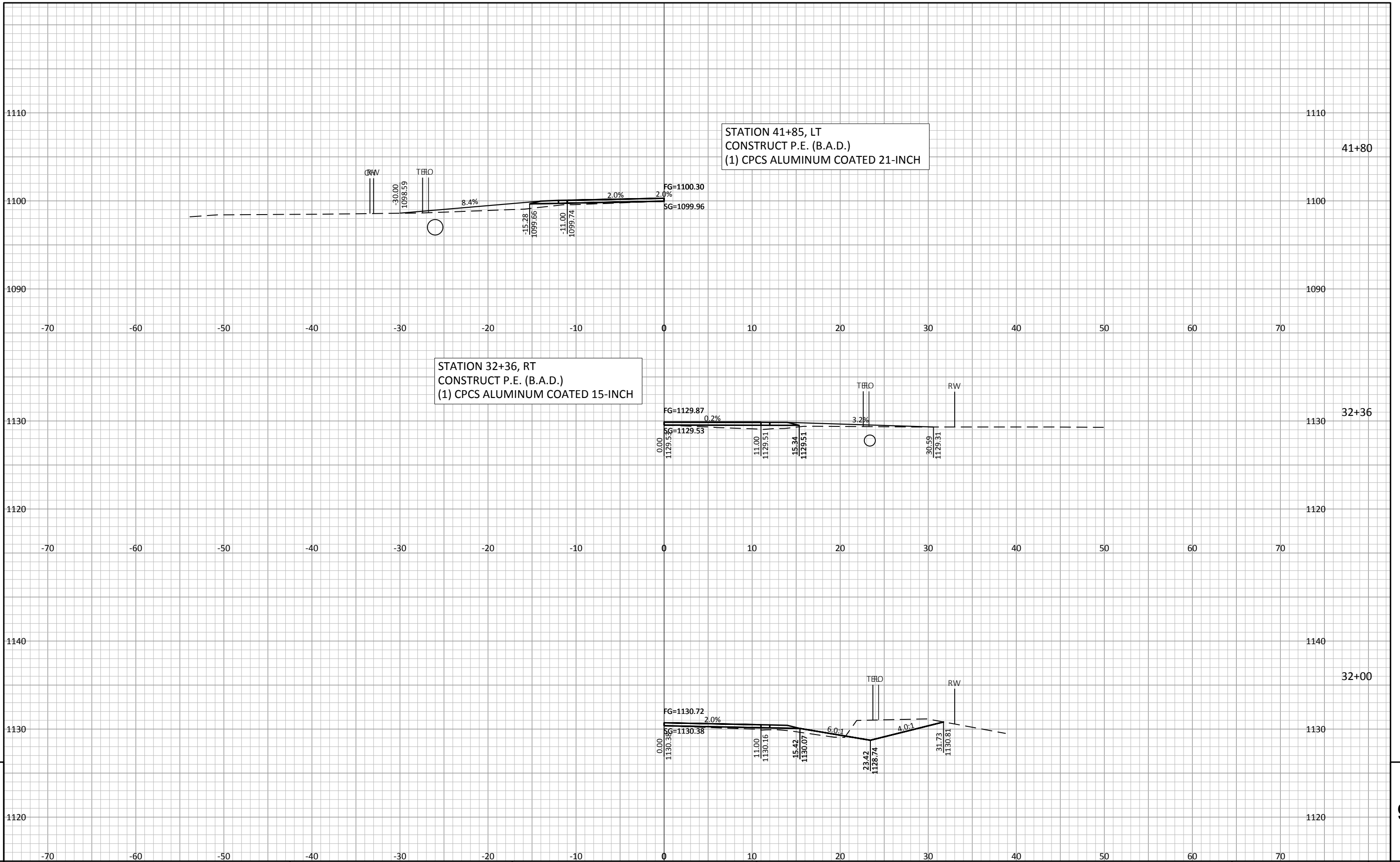
SHEET

E



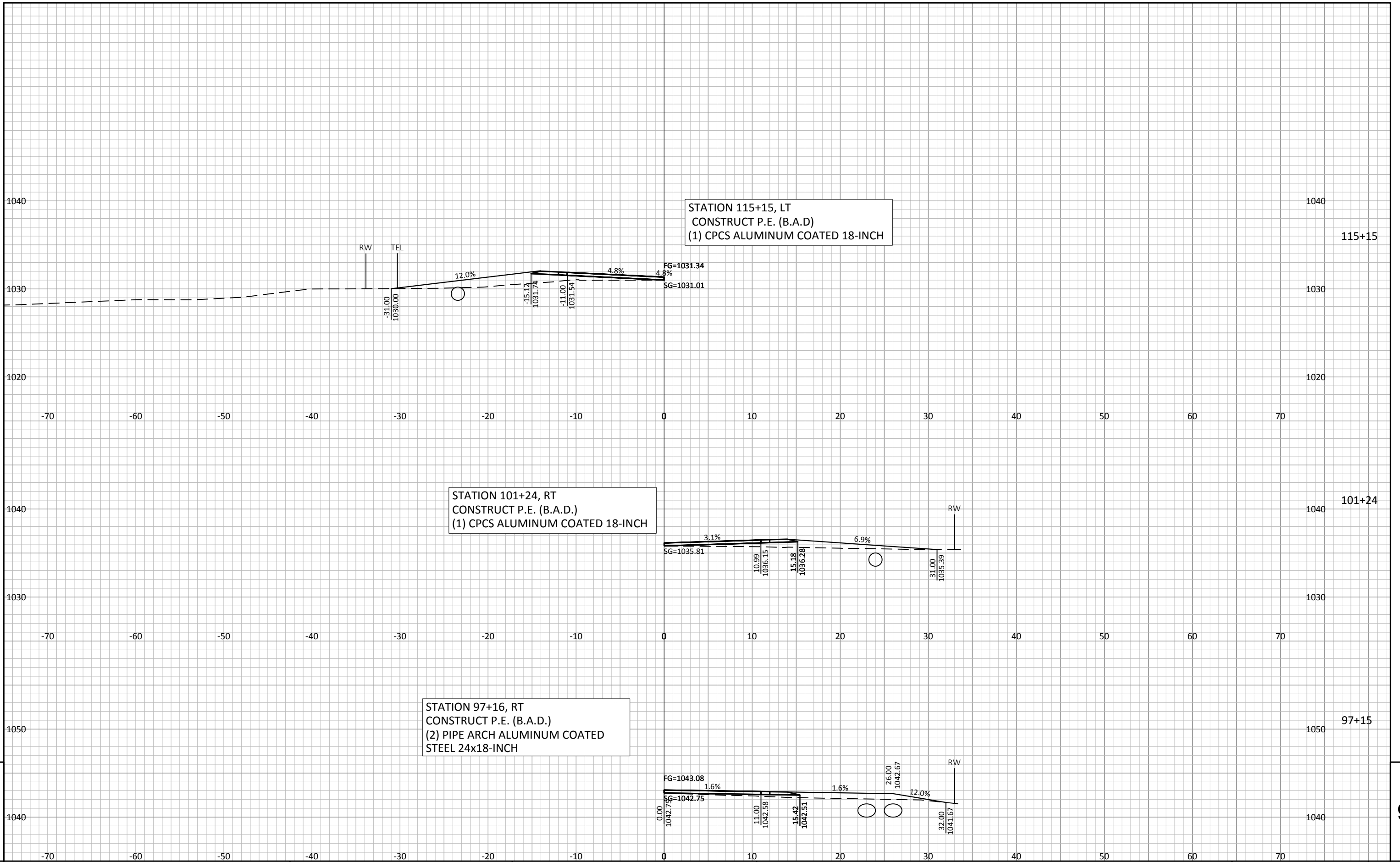
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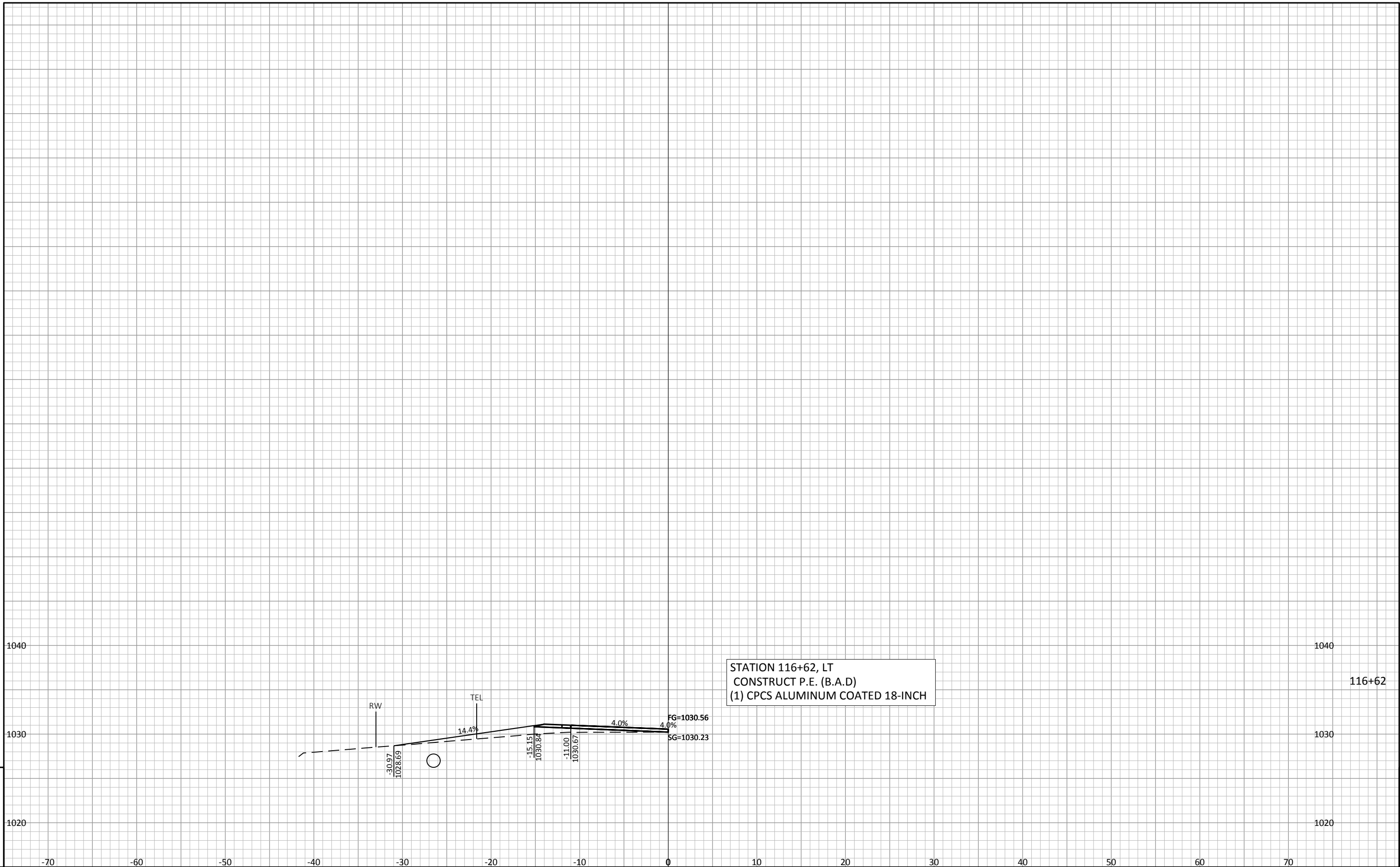
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Notes



Wisconsin Department of Transportation

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<http://www.dot.wisconsin.gov>