

RHI
PROJECT ID: 9120-09-70
WITH: PROJECTID4
COUNTY: FLORENCE

MAY 2017

ORDER OF SHEETS

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

TOTAL SHEETS = 102

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

BRULE RIVER - IRON MOUNTAIN

CTH NN - MICHIGAN STATE LINE
USH 2
FLORENCE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9120-09-70	WISC 2017291	1

STATE PROJECT NUMBER
9120-09-70



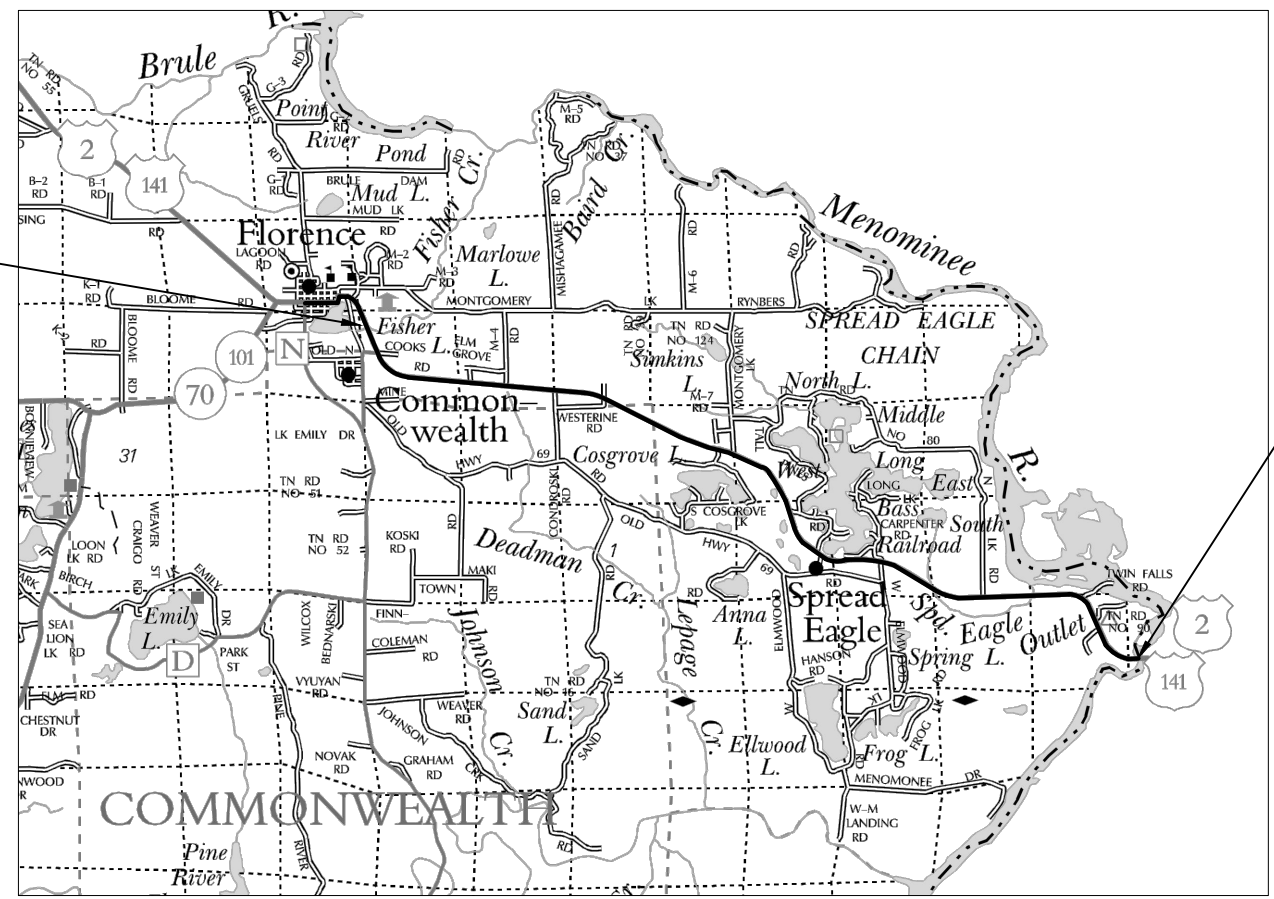
DESIGN DESIGNATION

A.A.D.T. 2012 = 7400
A.A.D.T. 2037 = 8640
D.H.V. = 1011
D.D. = 59/41
T. = 11.1%
DESIGN SPEED = 55 MPH
ESALS = 1,800,000

BEGIN PROJECT 9120-09-70
STA 315+25 USH 2
X=176619.81
Y=412236.12

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	95.36
PROPOSED OR NEW R/W LINE	---	CULVERT (Profile View)	□
SLOPE INTERCEPT	—	UTILITIES	—
REFERENCE LINE	—	ELECTRIC	— E —
EXISTING CULVERT	—	FIBER OPTIC	— FO —
PROPOSED CULVERT (Box or Pipe)	—	GAS	— G —
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	— SAN —
MARSH AREA	~	STORM SEWER	— SS —
WOODED OR SHRUB AREA	~	TELEPHONE	— T —
		WATER	— W —
		UTILITY PEDESTAL	⊕
		POWER POLE	⊕
		TELEPHONE POLE	⊕



END PROJECT 9120-09-70
STA 823+47 USH 2

LAYOUT
SCALE 0 1 SCALE

TOTAL NET LENGTH OF CENTERLINE = 9.199 MI

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	CHRIS STEBBINS
Designer	ANTHONY W. SANTILLI
Project Manager	DANIEL R. ERVA
Regional Examiner	CHERYL L. SIMON
Regional Supervisor	MICHAEL B. WENDT
APPROVED FOR THE DEPARTMENT	
DATE: 1/23/17	(Signature)

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

WHEN THE QUANTITY OF THE ITEMS BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

CONTACTS

ATC MANAGEMENT, INC.-ELECTRICITY
801 O'KEEFE RD
PO BOX 6113
DE PERE, WI 54115-6113
GERALD RHODE
(920) 338-6523
grhode@atcinc.com

MERIT NETWORK, INC
SUITE 200
1000 OAKBROOK DR.
ANN ARBOR, MI 48104
CARLOS RAMOS
(734) 476-3873
cramosjr@merit.edu

FLORENCE UTILITY COMMISSION-ELECTRICITY, GAS/PETROLEUM
PO BOX 109
FLORENCE, WI 54121
ROBERT FRIBERG
(715)-528-3330
rfriberg@wpplenergy.org
OR
GARRET TRUDELL
(715)-528-3330
(715)929-0108(Mobile)
gtrudell@wpplenergy.org

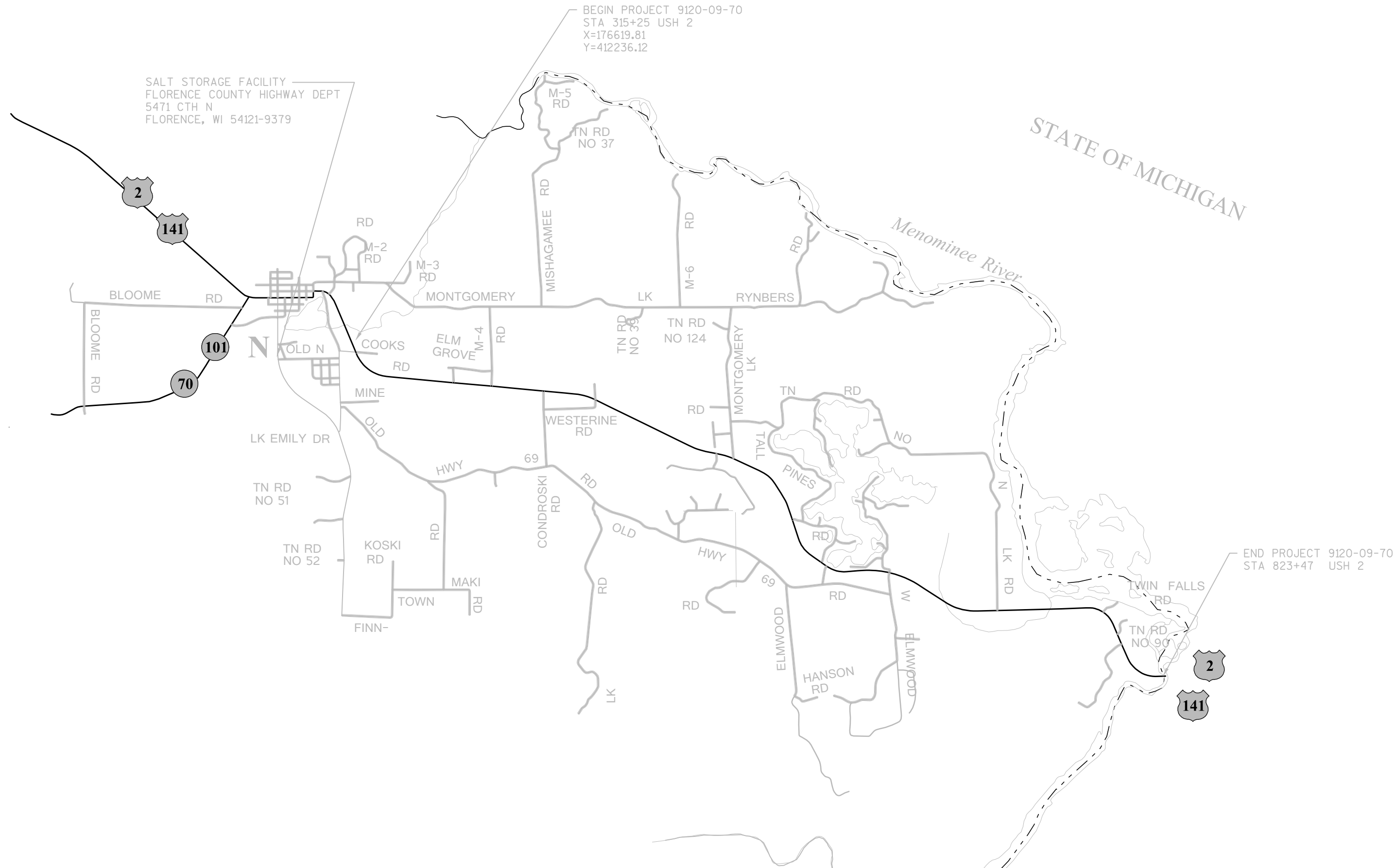
NIAGRA TELEPHONE COMPANY-COMMUNICATION LINE
1133 MAIN STREET
PO BOX 3
NIAGRA, WI 54151-0003
RYAN HOOD
(715)-251-2109
ryan.hood@nsight.com

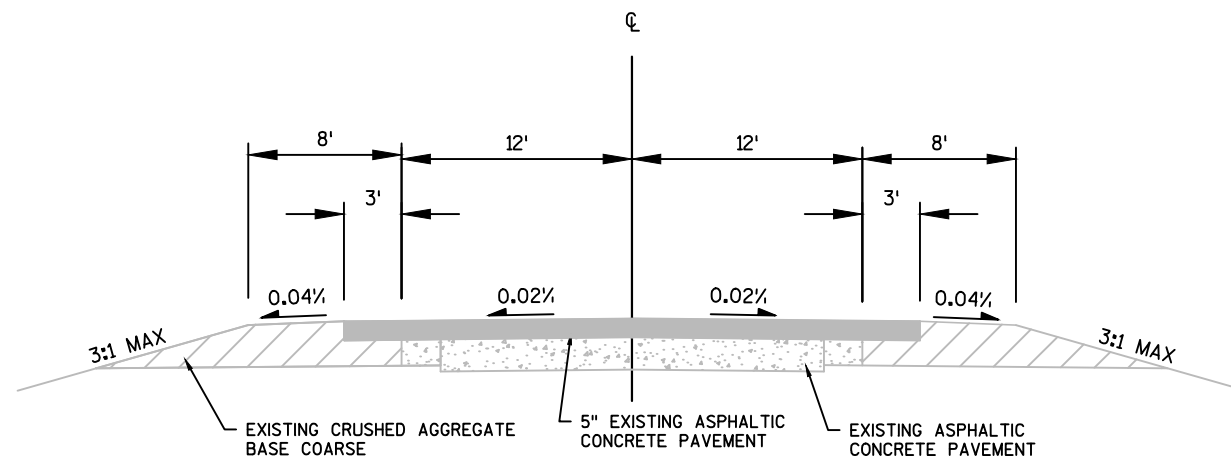
WE ENERGIES-ELECTRICITY
800 INDUSTRIAL PARK DR.
IRON MOUNTAIN, MI 49801
JIM TEFFT
(906)-282-0870
james.tefft@we-energies.com

CHARTER COMMUNICATIONS-COMMUNICATION LINE
385 WOODWARD AVE.
KINGSFORD, MI 49802
SCOTT BEASTER
(906)-553-7859
(906)-630-7795(Mobile)
scott.beaster@charter.com

WISCONSIN DNR
JON SIMONSEN
107 SUTLIFF AVENUE
RHINELANDER, WI 54501
JONATHON.SIMONSEN@WISCONSIN.GOV
715-367-1836



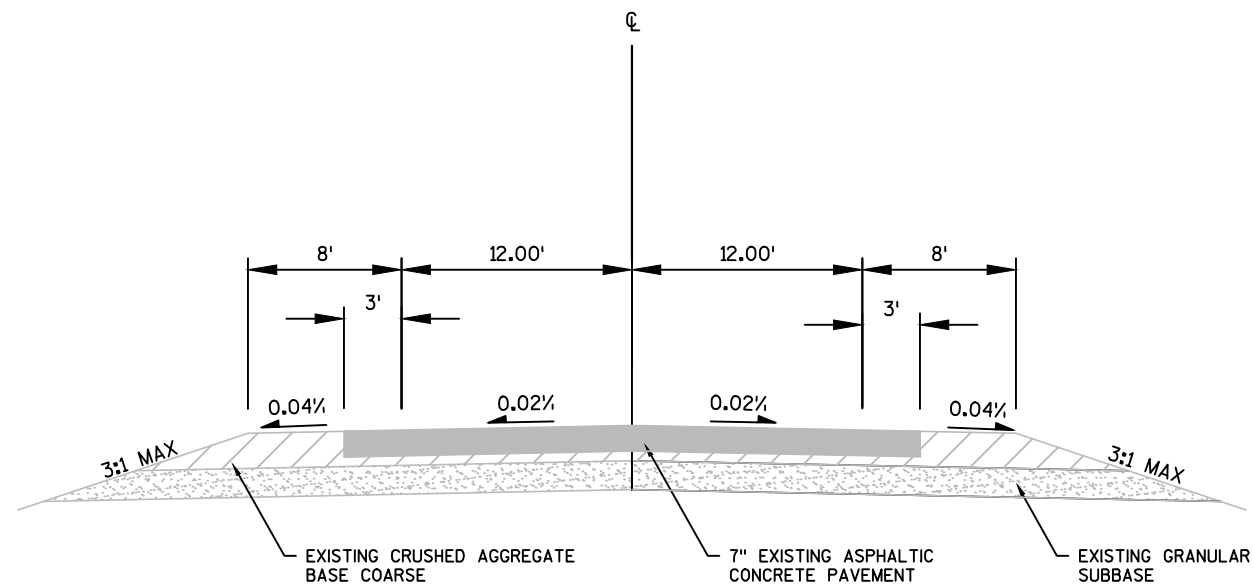




EXISTING TYPICAL SECTION

USH 2

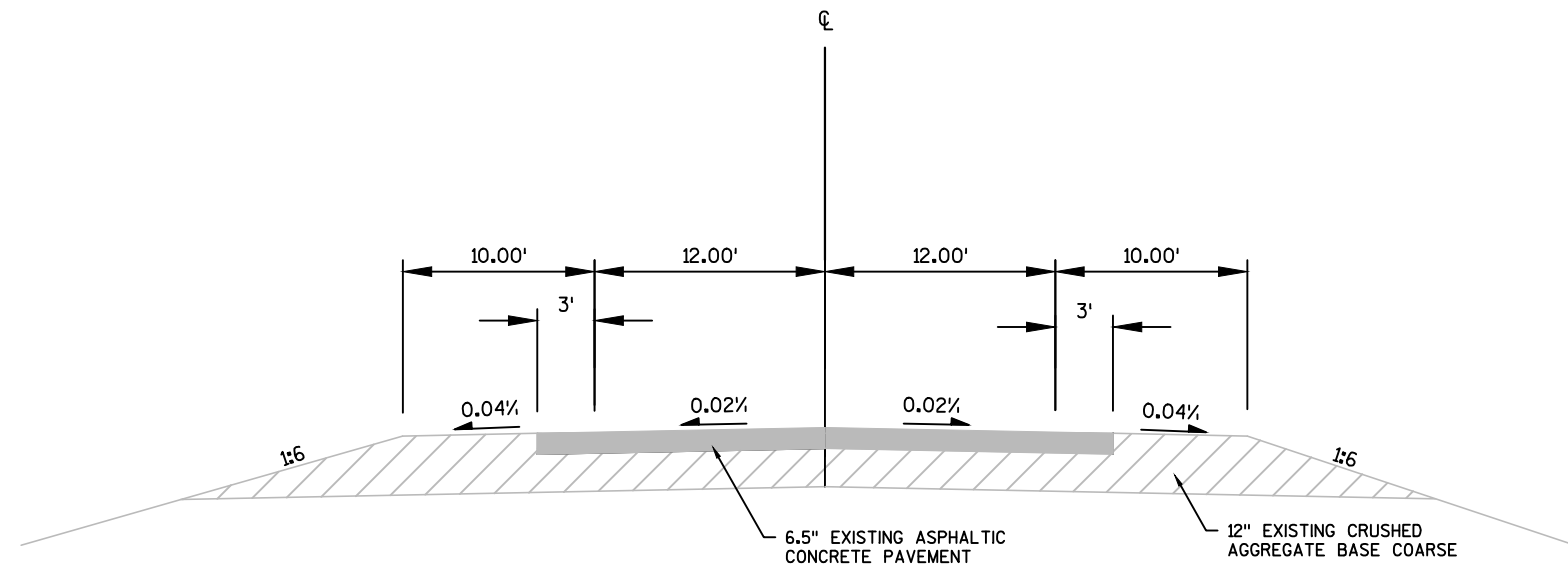
STA 315+25 TO STA 353+00
STA 362+00 TO STA 395+00
STA 449+00 TO STA 563+00
STA 570+00 TO STA 573+00
STA 581+00 TO STA 587+00



EXISTING TYPICAL SECTION

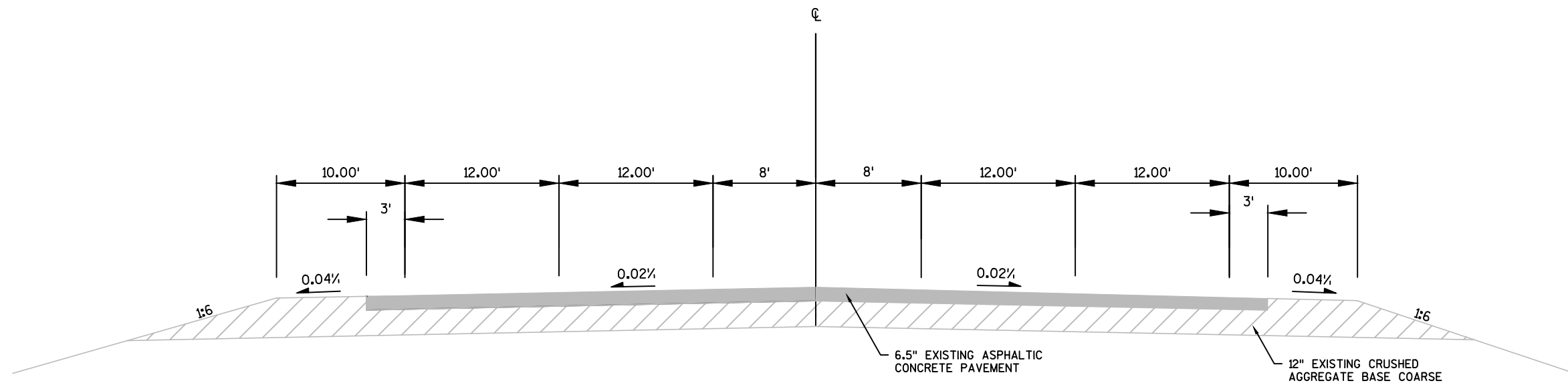
USH 2

STA 353+00 TO STA 362+00
STA 395+00 TO STA 449+00
STA 563+00 TO STA 570+00
STA 573+00 TO STA 581+00
STA 587+00 TO STA 595+00
STA 778+37 TO STA 786+81



EXISTING TWO LANE TYPICAL SECTION
USH 2

STA 595+00 TO STA 615+54
STA 667+32 TO STA 762+53
STA 807+53 TO STA 823+47

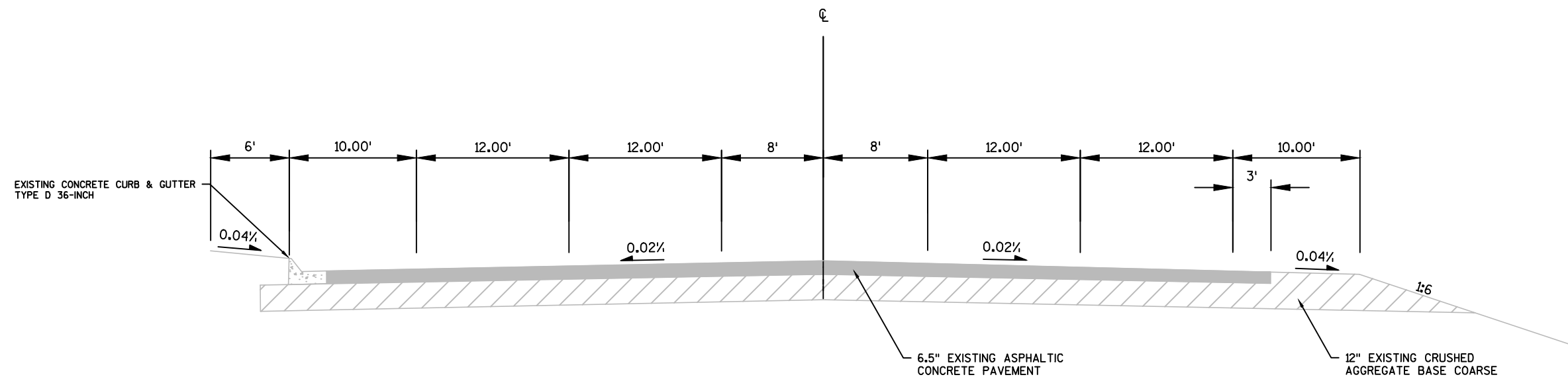


EXISTING FIVE LANE TYPICAL SECTION
WITH CENTER TURNING LANE
USH 2

STA 615+54 TO STA 622+40

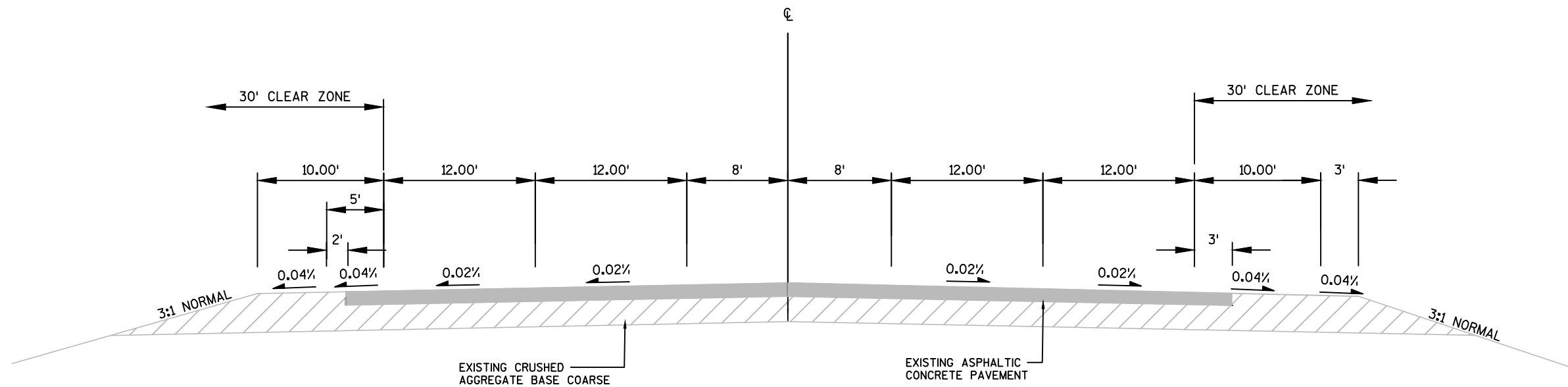
NOTE:
ROADWAY TRANSITIONS FROM 2-LANE TYPICAL TO
5-LANE TYPICAL FROM STA 611+09 - STA 615+54.

ROADWAY TRANSITIONS FROM 5-LANE TO
2-LANE TYPICAL FROM STA 663+62 - STA 667+32.



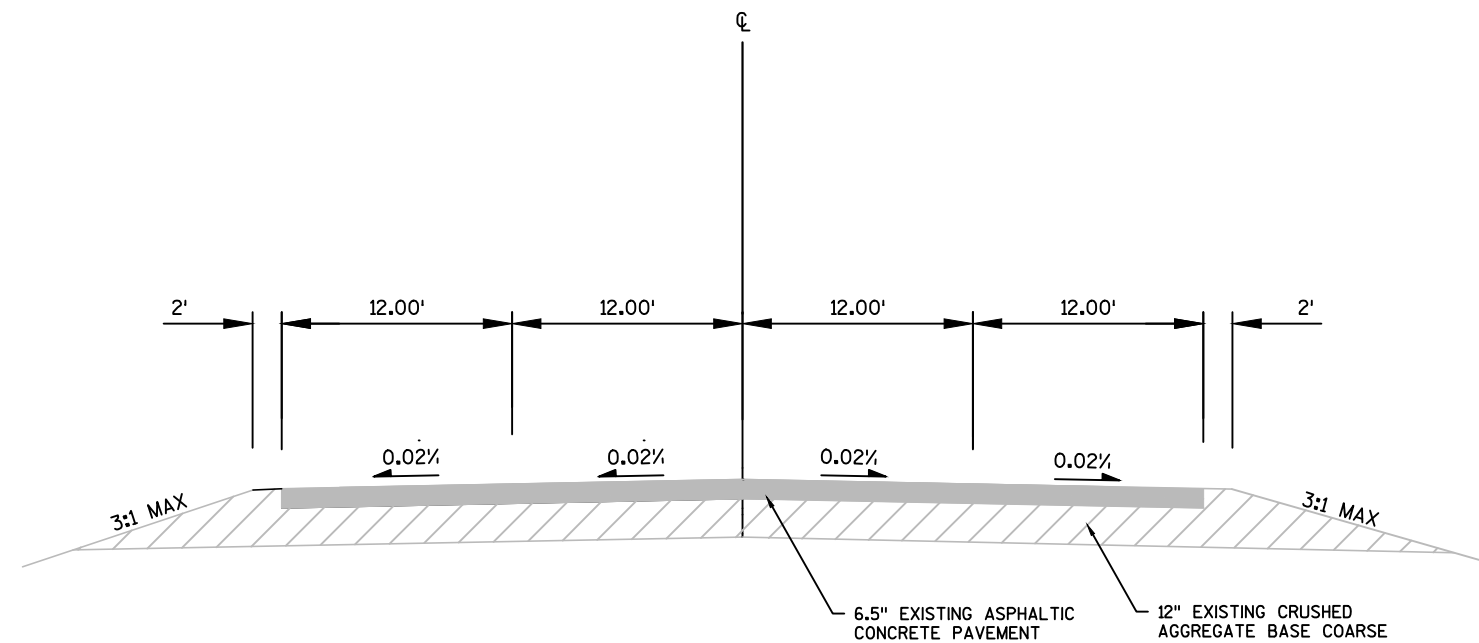
EXISTING FIVE LANE TYPICAL SECTION
FOUR LANE WITH CENTER TURNING LANE
CURB LEFT SIDE

USH 2
STA 622+40 TO STA 646+73



EXISTING FIVE LANE TYPICAL
SECTION WITH CENTER TURNING LANE

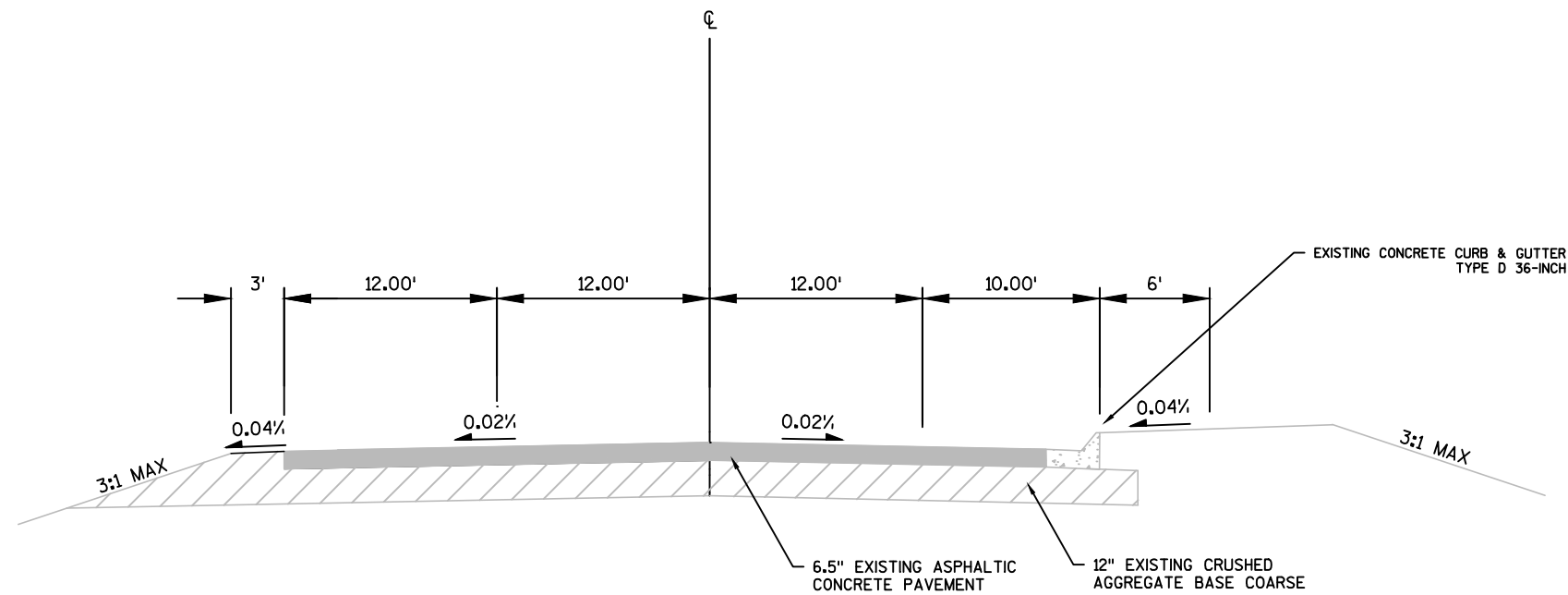
USH 2
STA 646+73 TO STA 667+32



EXISTING TWO LANE TYPICAL SECTION

USH 2

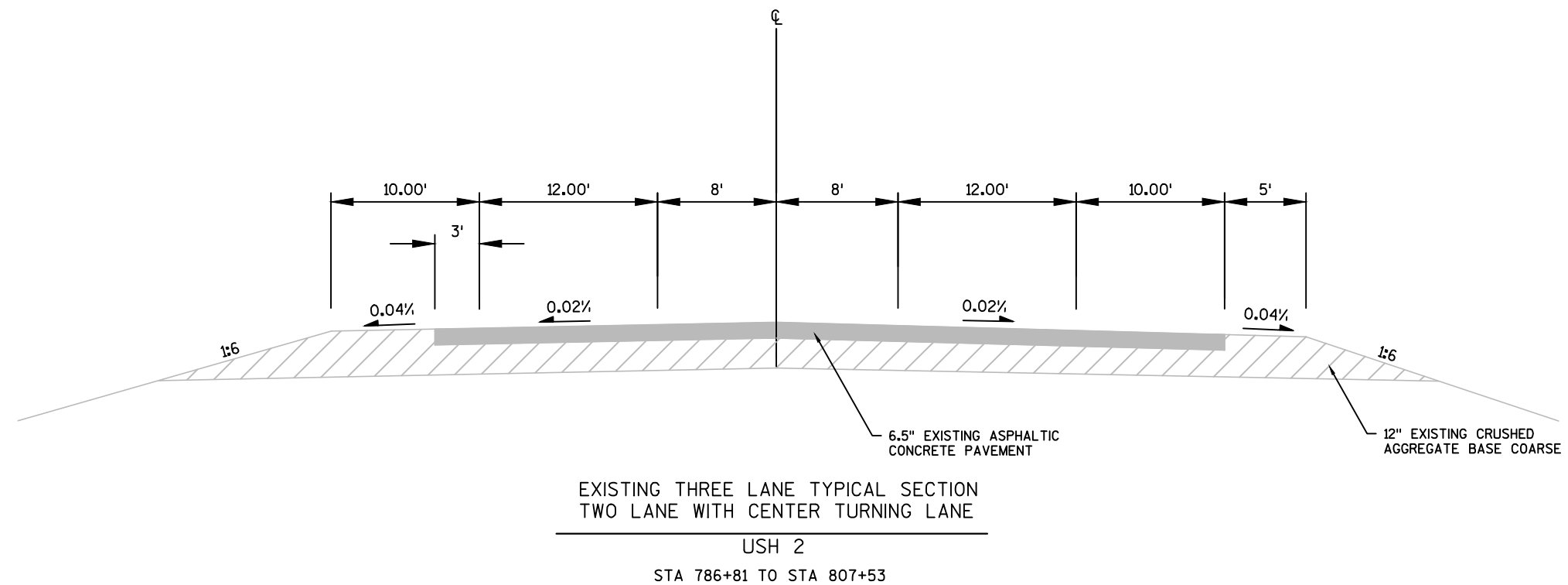
STA 762+53 TO STA 766+22
STA 773+61 TO STA 778+37



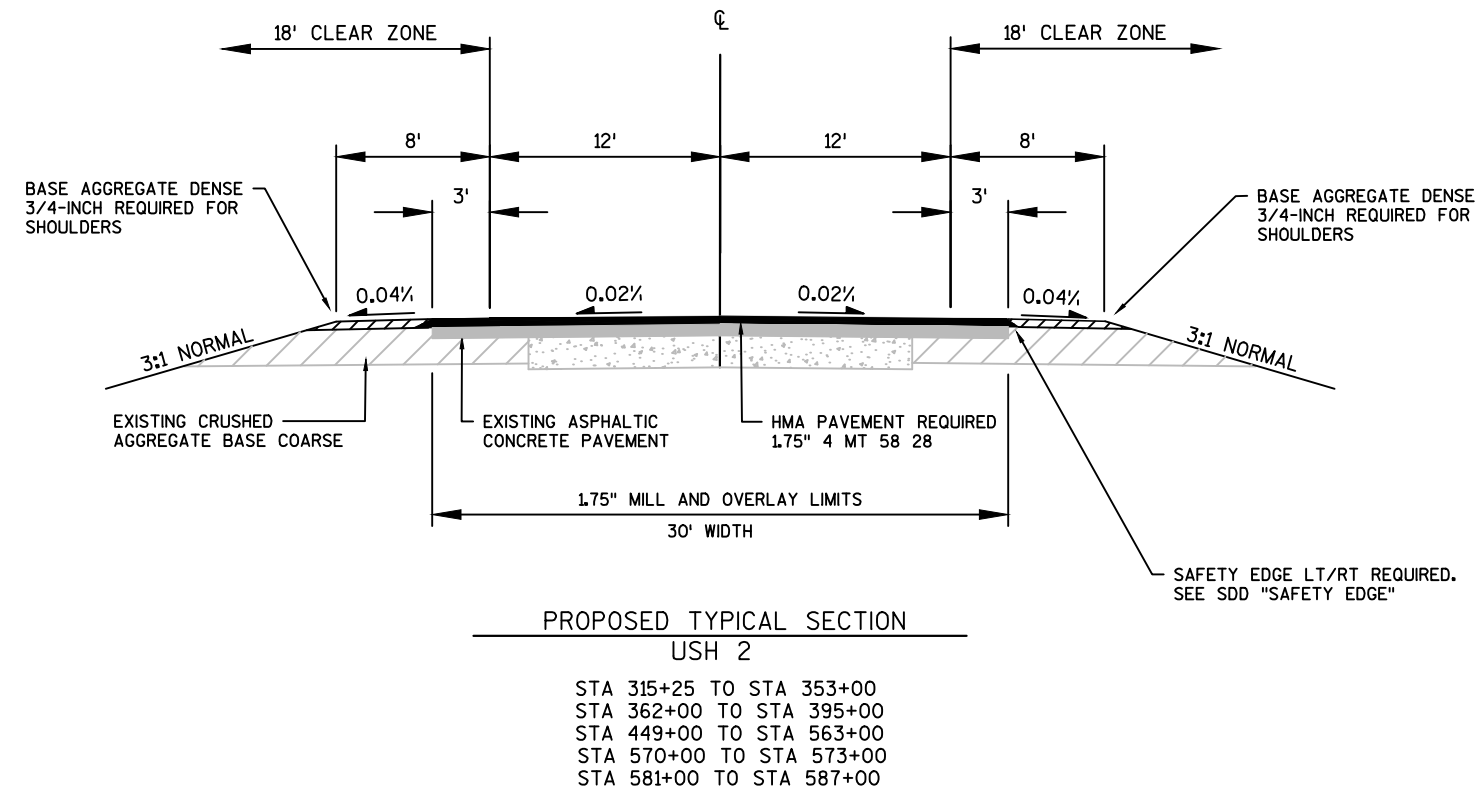
EXISTING TWO LANE TYPICAL SECTION
CURB RIGHT SIDE

USH 2

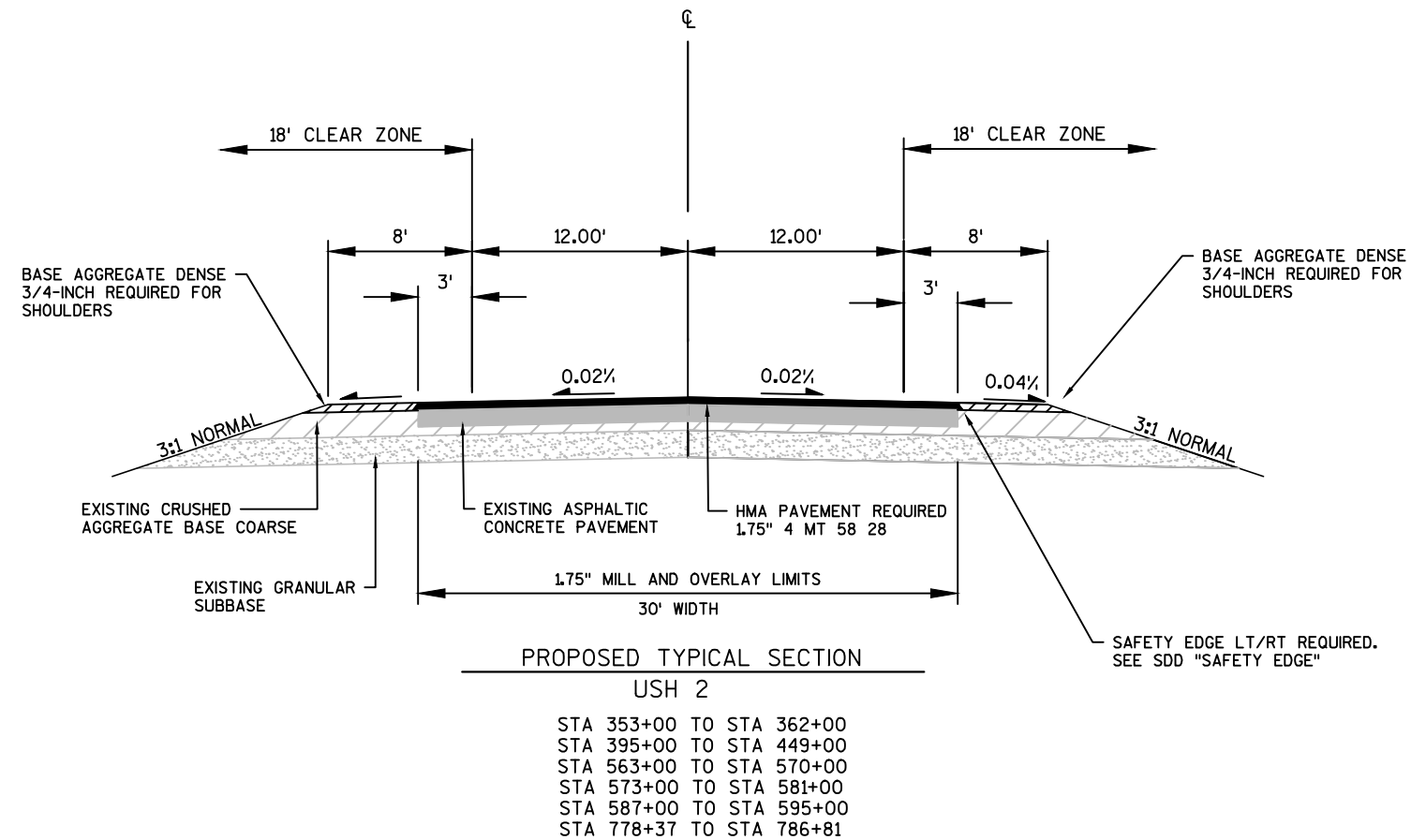
STA 766+22 TO STA 773+61



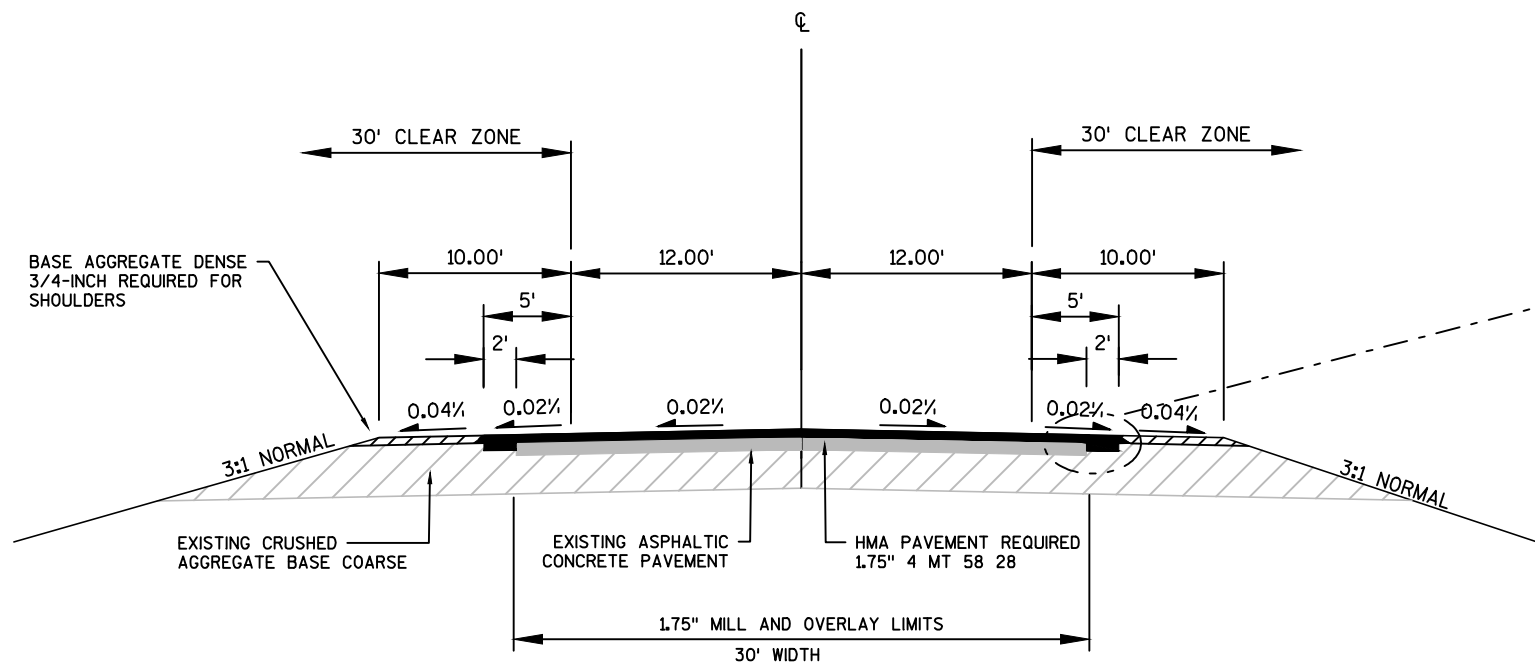
NOTE:
ROADWAY TRANSITIONS FROM 2-LANE TYPICAL TO
3-LANE TYPICAL FROM STA 783+12 - STA 786+81.
ROADWAY TRANSITIONS FROM 3-LANE TO
2-LANE TYPICAL FROM STA 803+93 - STA 807+53.



NOTE:
SHAPING SHOULDERS LT/RT REQUIRED.
C/L RUMBLE STRIPS REQUIRED.

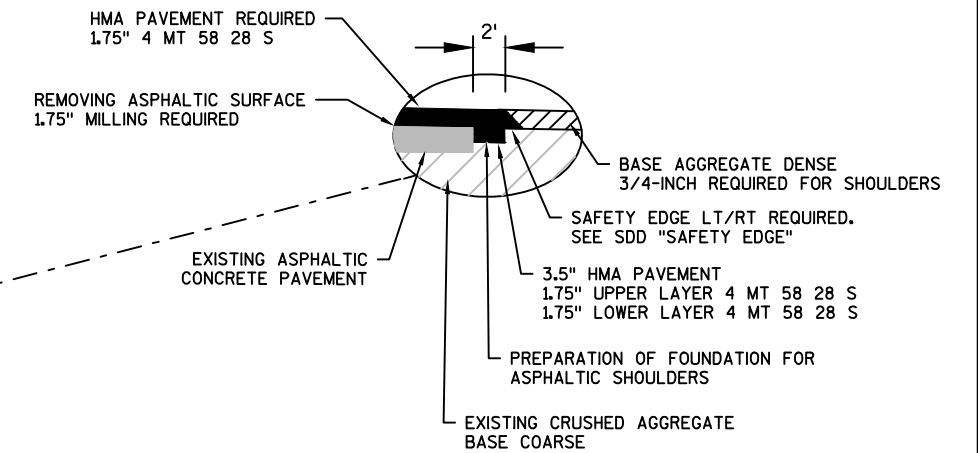


NOTE:
SHAPING SHOULDERS LT/RT REQUIRED.
C/L RUMBLE STRIPS REQUIRED.



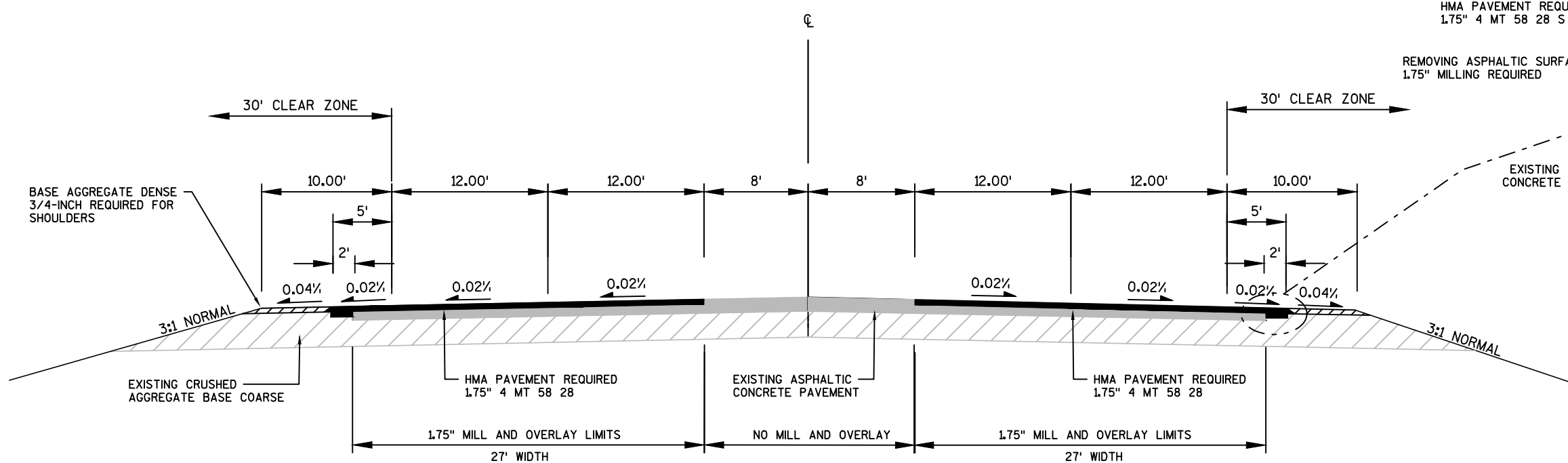
PROPOSED TWO LANE TYPICAL SECTION
USH 2

STA 595+00 TO STA 615+54
STA 667+32 TO STA 762+53
STA 807+53 TO STA 823+47



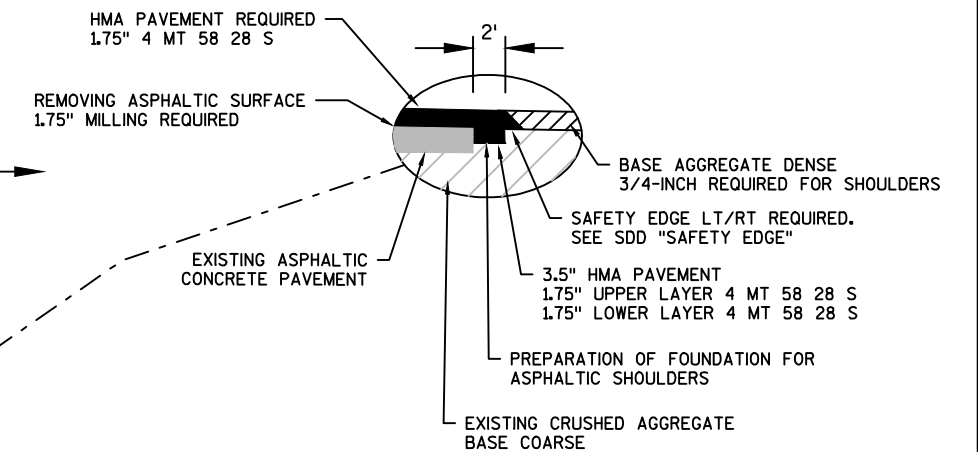
NOTE:

SHAPING SHOULDERS LT/RT REQUIRED.
C/L RUMBLE STRIPS REQUIRED.



PROPOSED FIVE LANE TYPICAL
SECTION WITH CENTER TURNING LANE
USH 2

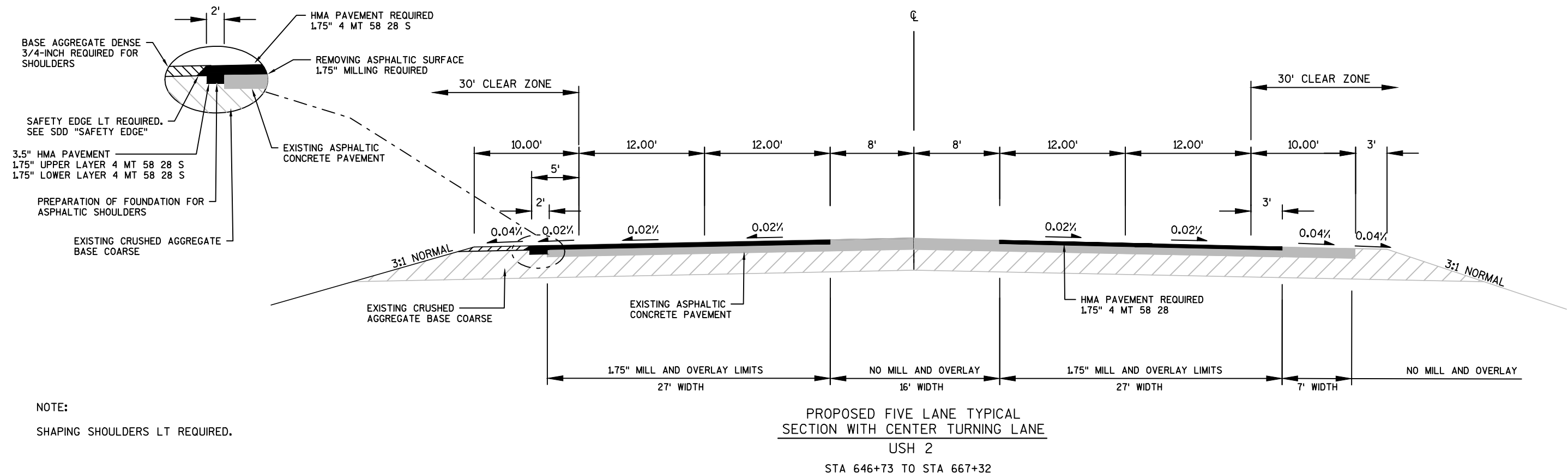
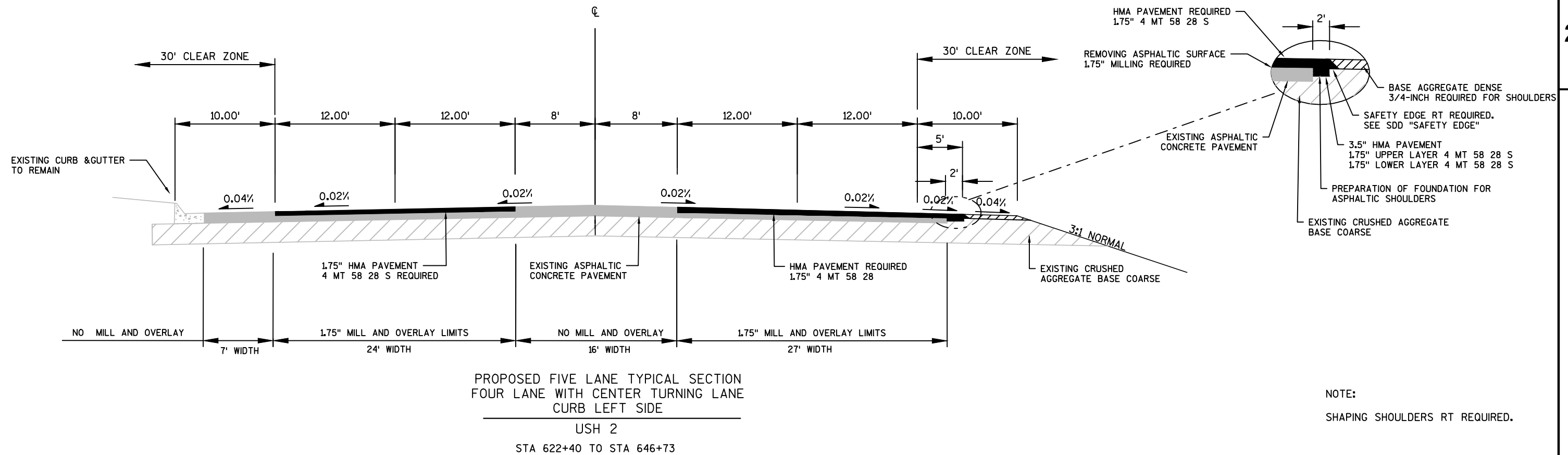
STA 615+54 TO STA 622+40

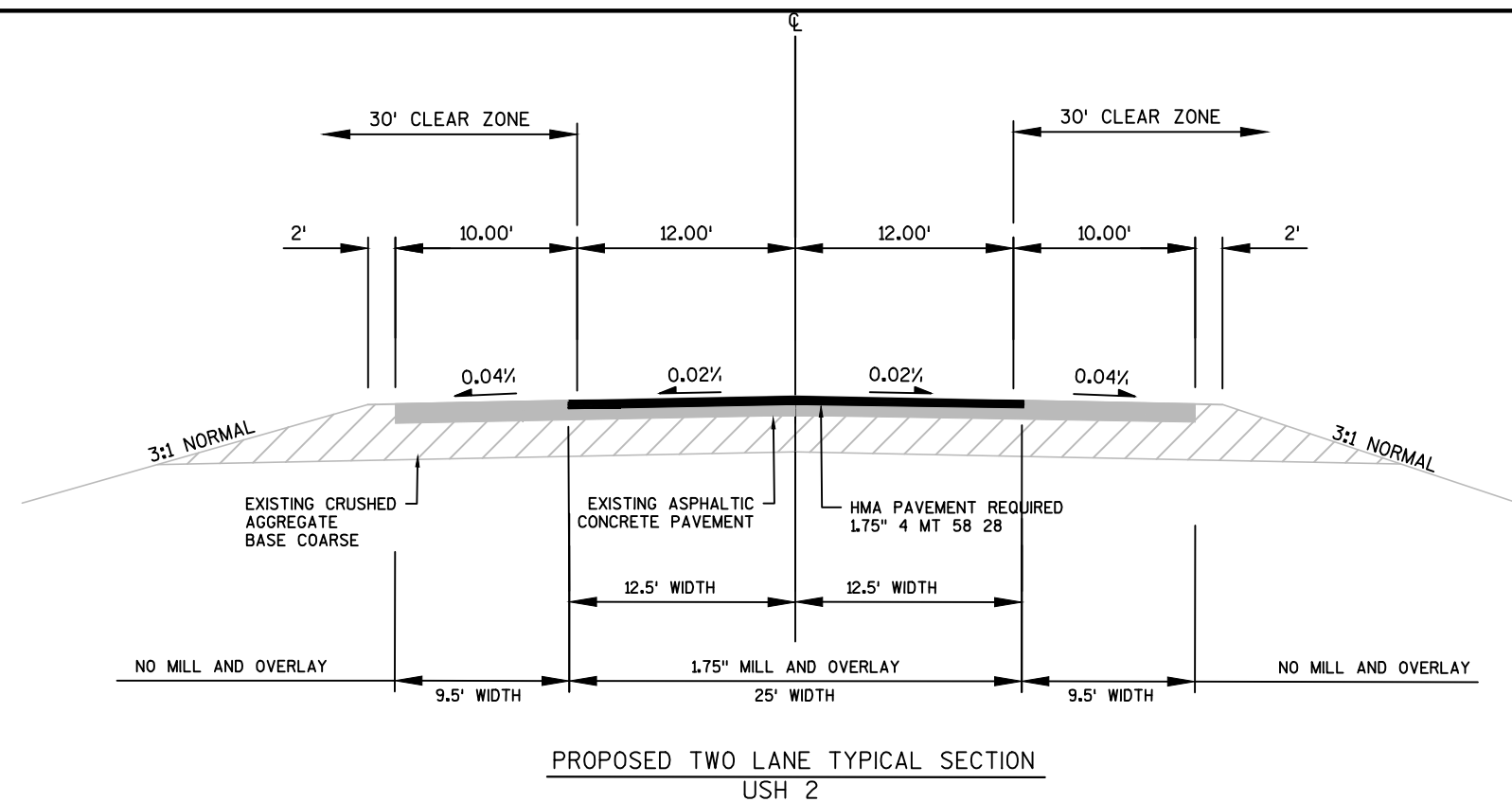


NOTE:

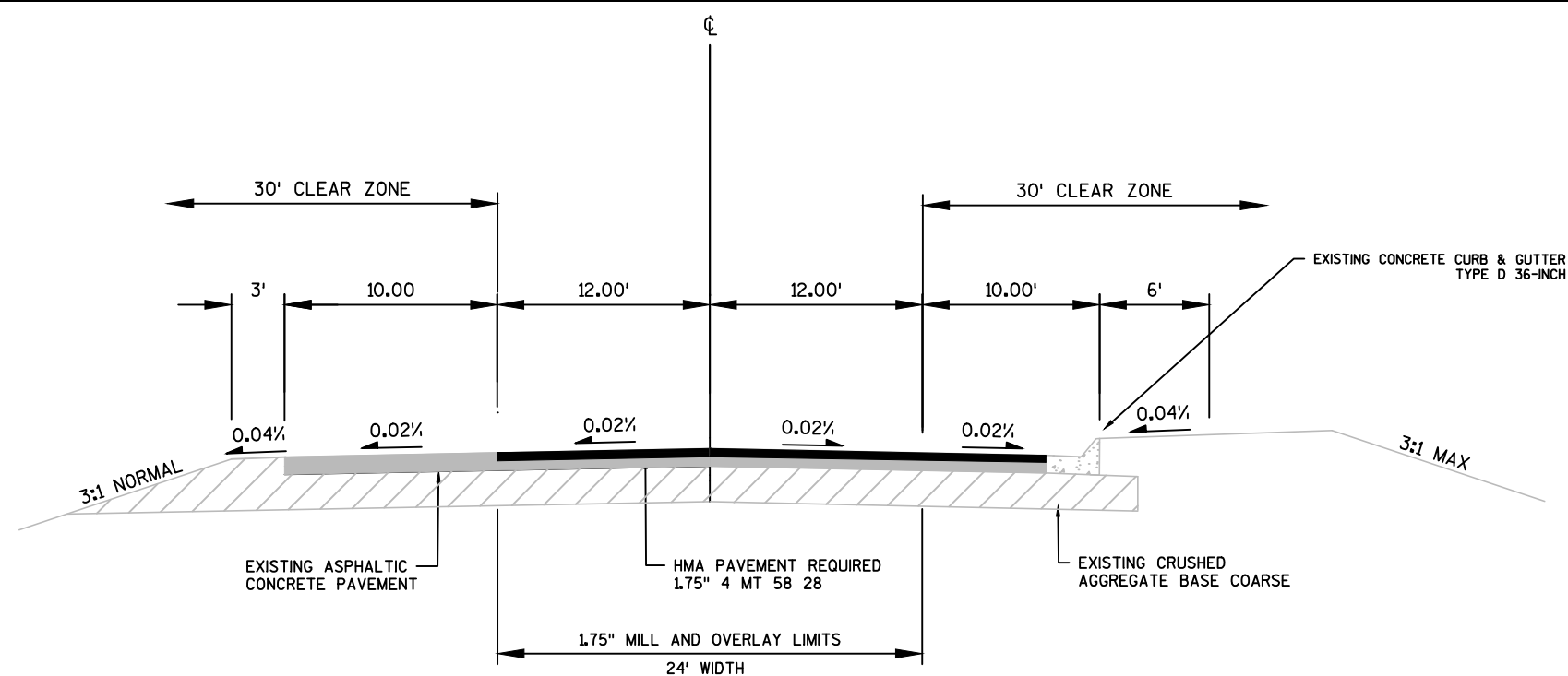
SHAPING SHOULDERS LT/RT REQUIRED.

NOTE:
ROADWAY TRANSITIONS FROM 2-LANE TYPICAL TO
5-LANE TYPICAL FROM STA 611+09 - STA 615+54.
ROADWAY TRANSITIONS FROM 5-LANE TO
2-LANE TYPICAL FROM STA 663+62 - STA 667+32.

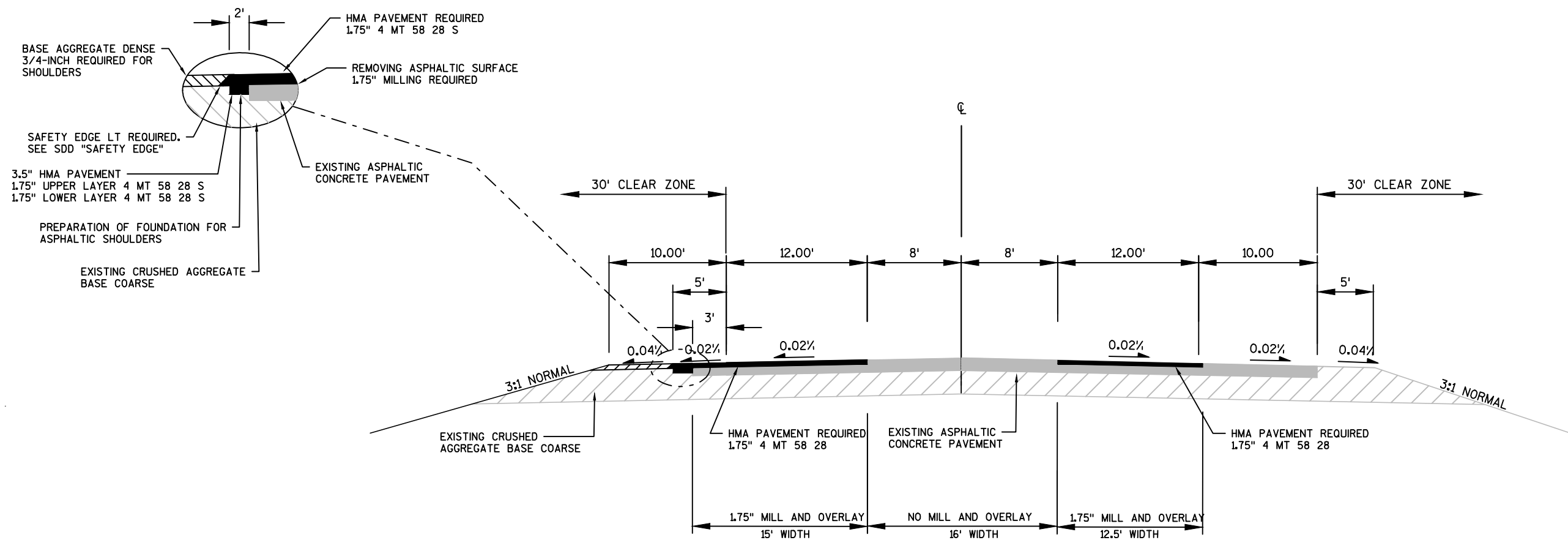




NOTE:
C/L RUMBLE STRIPS REQUIRED.



NOTE:
C/L RUMBLE STRIPS REQUIRED.



PROPOSED THREE LANE TYPICAL
SECTION WITH CENTER TURNING LANE

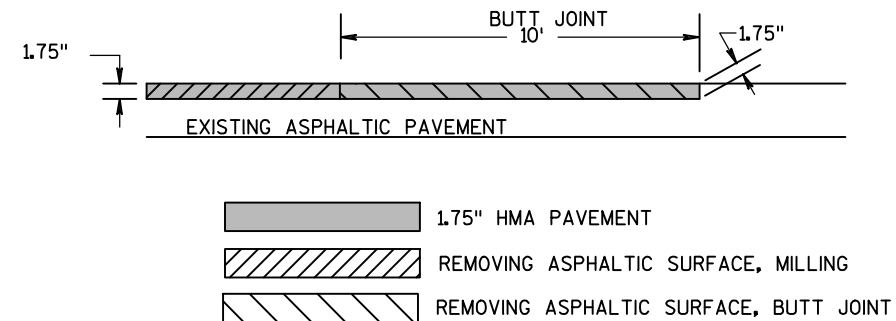
USH 2

STA 786+81 TO STA 807+53

NOTE:
ROADWAY TRANSITIONS FROM 2-LANE TYPICAL TO
3-LANE TYPICAL FROM STA 783+12 - STA 786+81.

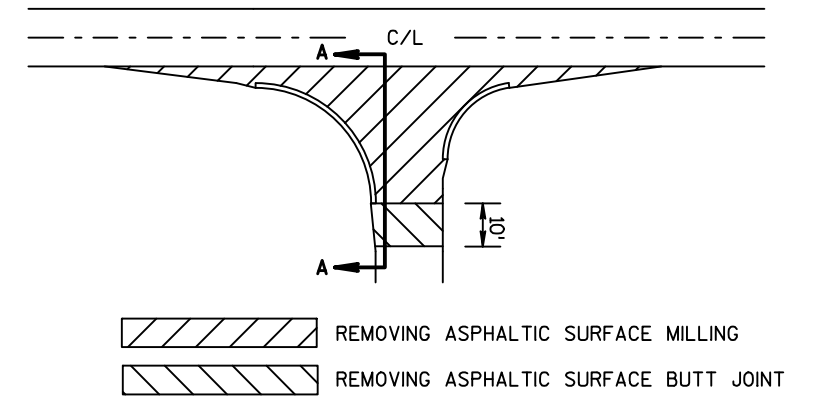
ROADWAY TRANSITIONS FROM 3-LANE TO
2-LANE TYPICAL FROM STA 803+93 - STA 807+53.

NOTE:
SHAPING SHOULDERS LT REQUIRED.



MAINLINE BUTT JOINT DETAIL

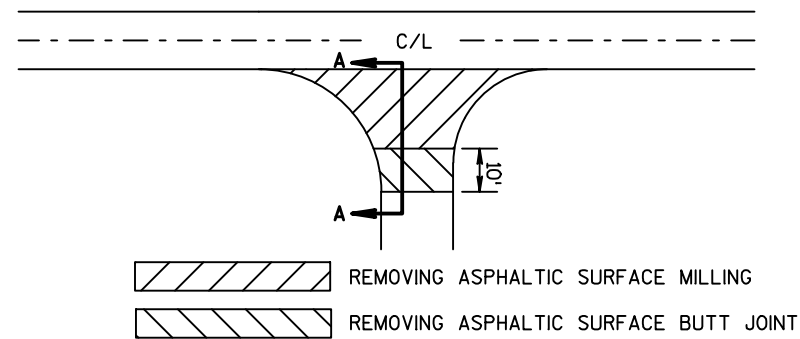
STA 315+25 - STA 316+25



NOTE: ONLY WHERE SHOULDER IS MILLED FULL WIDTH.

BUTT JOINT DETAIL

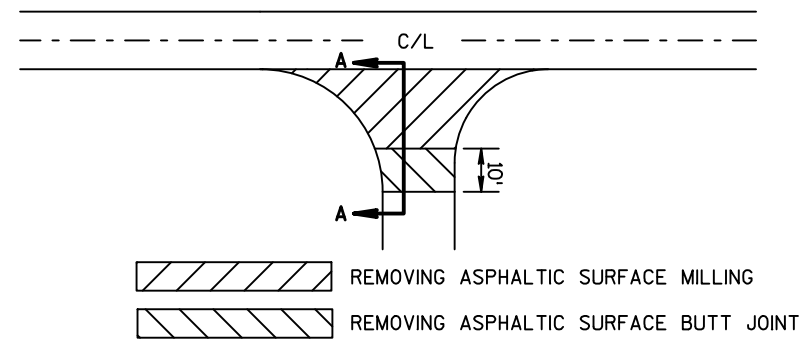
SIDE ROADS WITH CURB AND GUTTER



NOTE: ONLY WHERE SHOULDER IS MILLED FULL WIDTH.

BUTT JOINT DETAIL

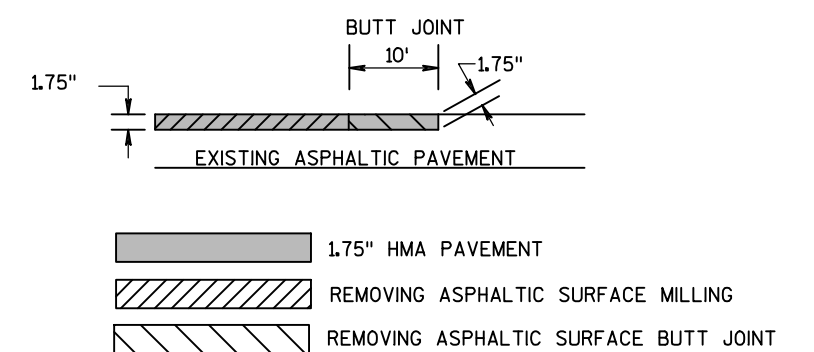
SIDE ROADS WITHOUT CURB AND GUTTER



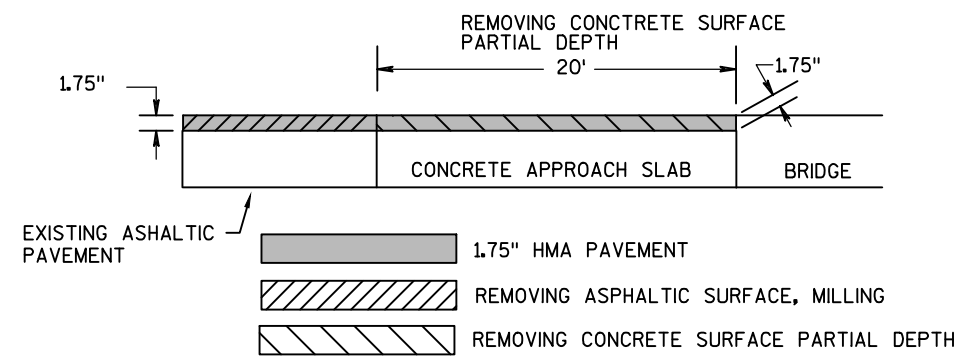
NOTE: ONLY WHERE SHOULDER IS MILLED FULL WIDTH.

BUTT JOINT DETAIL

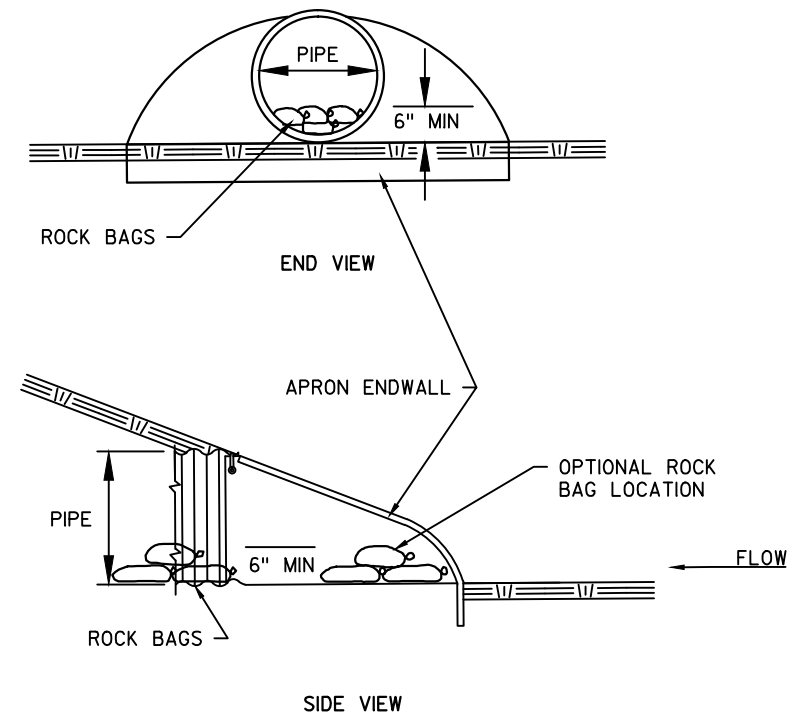
DRIVEWAYS WITHOUT CURB AND GUTTER



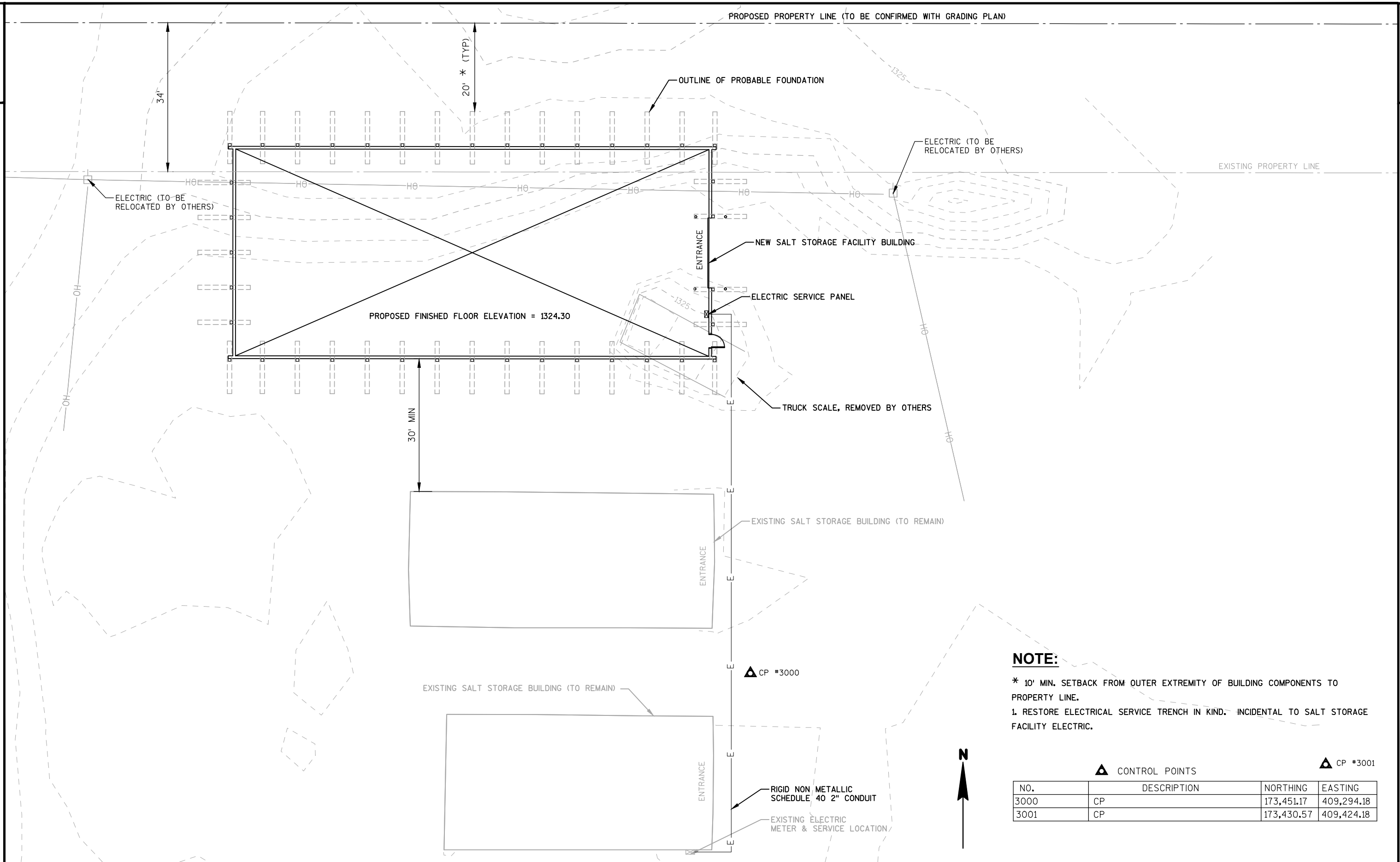
SECTION A - A



REMOVING CONCRETE SURFACE PARTIAL DEPTH
STA 823+27 - STA 823+47

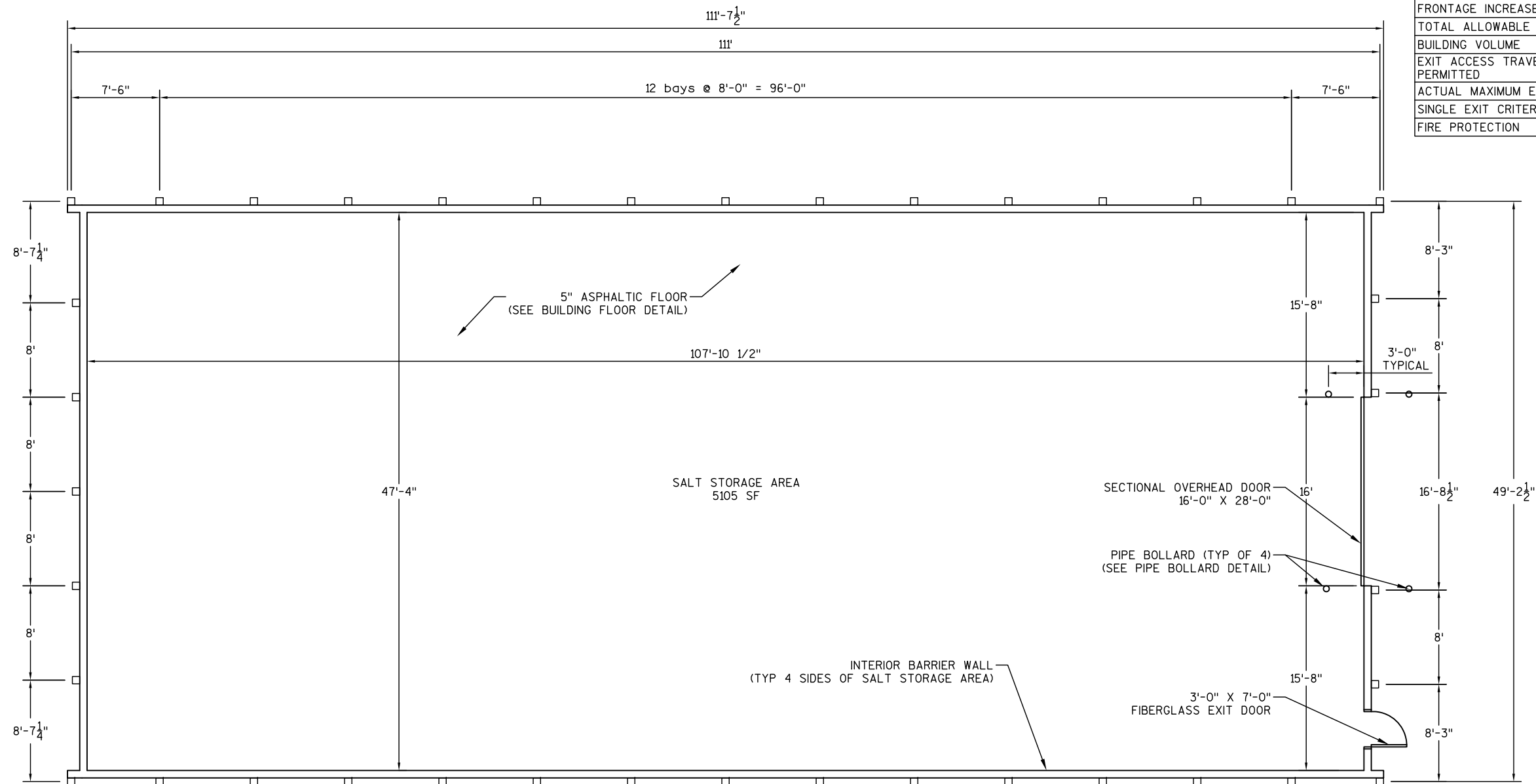


CULVERT PIPE CHECK
STA 807+10



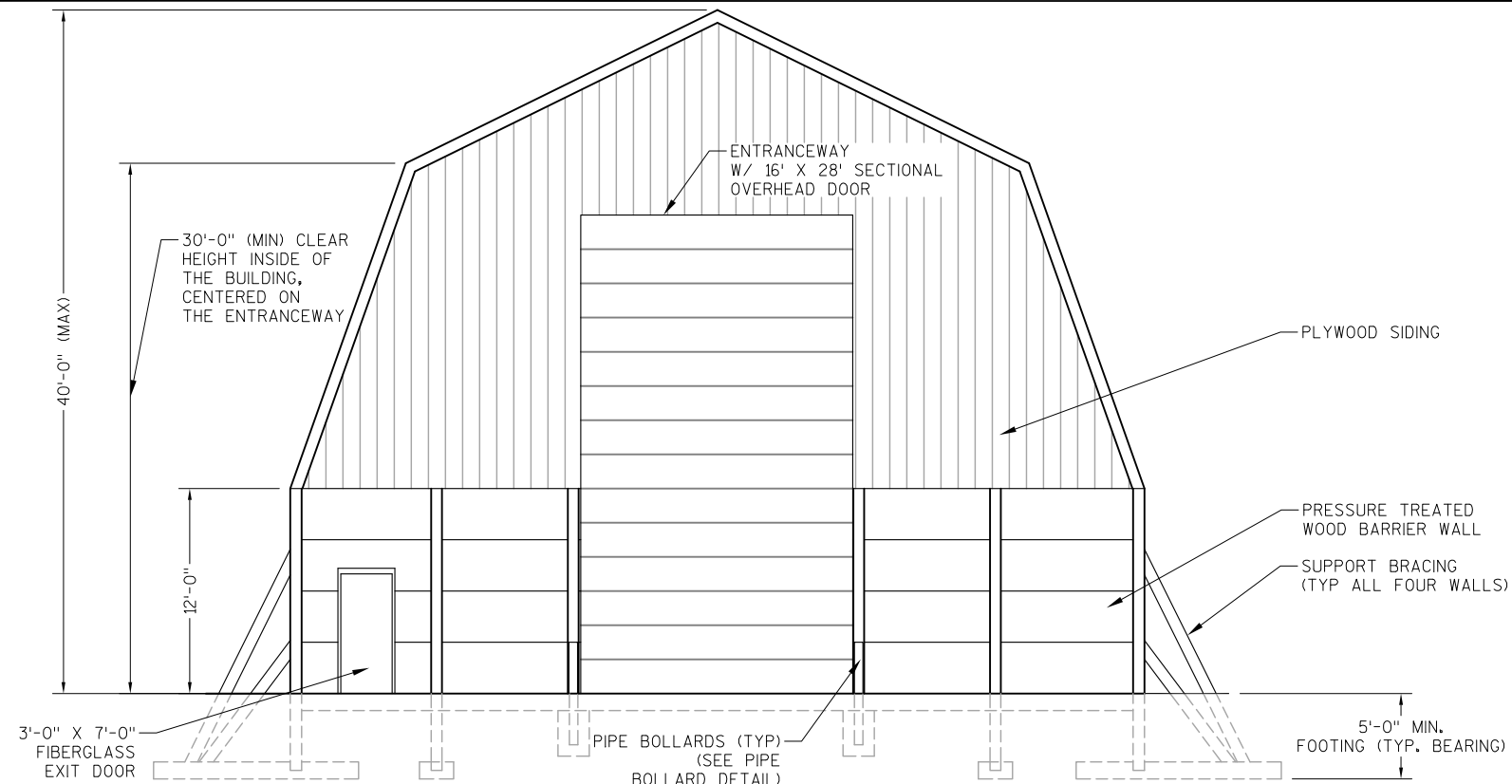
NOTE:
* 10' MIN. SETBACK FROM OUTER EXTREMITY OF BUILDING COMPONENTS TO PROPERTY LINE.
1. RESTORE ELECTRICAL SERVICE TRENCH IN KIND. INCIDENTAL TO SALT STORAGE FACILITY ELECTRIC.

CONTROL POINTS			
NO.	DESCRIPTION	NORTHING	EASTING
3000	CP	173,451.17	409,294.18
3001	CP	173,430.57	409,424.18



OVERALL FLOOR PLAN

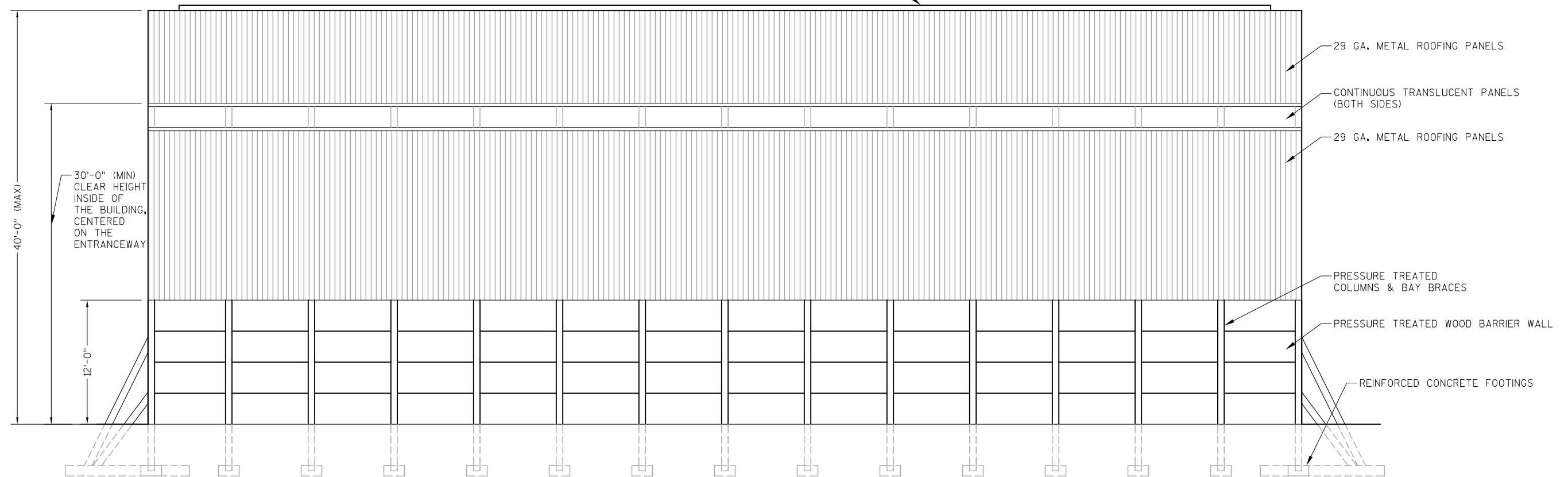
BUILDING CODE INFORMATION		
BUILDING CODE	2009 INTERNATIONAL BUILDING CODE AS AMENDED	
OCCUPANCY TYPE	U-UTILITY (BARN PER APP. C OF IBC)	
CONSTRUCTION TYPE	TYPE VB	
	ALLOWABLE	AS DESIGNED
NO. OF STORIES	2 STORIES	1 STORY
ALLOWABLE HEIGHT	40 FEET	40 FEET
PUBLIC WAYS OR YARDS	ACCESSIBLE FROM 4 SIDES, MIN. 30-FOOT ACCESS WIDTH	
FOOTPRINT AREA	5,600 S.F.	
TABULATED ALLOWABLE AREA	5,500 S.F.	
FRONTAGE INCREASE	1,485 S.F.	
TOTAL ALLOWABLE AREA	6985 S.F.	
BUILDING VOLUME	GREATER THAN 50,000 C.F.	
EXIT ACCESS TRAVEL DISTANCE PERMITTED	300 FEET	
ACTUAL MAXIMUM EXIT DISTANCE	160 FEET	
SINGLE EXIT CRITERIA	ONE EXIT EVERY 15,000 SQ FT PER IBC C104	
FIRE PROTECTION	UNSPRINKLERED	



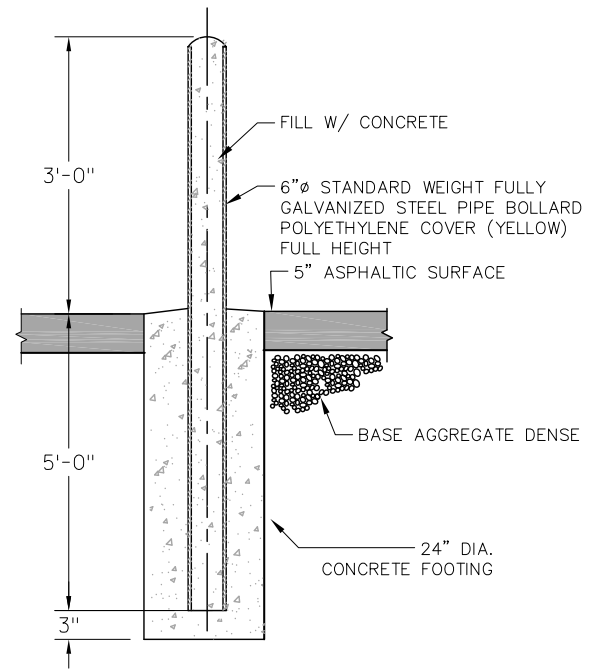
ELEVATION VIEW ON ENTRANCE SIDE OF BUILDING

STRUCTURAL DESIGN CRITERIA			
DESIGN CODES	BUILDING CODE		IBC 2009
	CONCRETE DESIGN CODE		ACI 318-08
	OCCUPANCY TYPE		II
ROOF SNOW LOAD	GROUND SNOW LOAD (PG) (PSF)		60
	SNOW EXPOSURE FACTOR (CE)		1.0
	SNOW LOAD IMPRTANCE FACTOR (IS)		1.0
	THERMAL FACTOR (C+)		1.2
	DRIFT LOADS		PER IBC CODE
WIND LOAD	BASIC 3-SECOND GUST WIND SPEED (MPH)		90
	WIND IMPROTANCE FACTOR (IW)		1.0
	WIND EXPOSURE		C
	COMPONENTS AND CLADDING DESIGN WIND PRESSURE (PSF)		PER IBC CODE
	SEISMIC IMPORTANCE FACTOR (IE)		1.0
EARTHQUAKE DESIGN DATA	SITE CLASS		D
	SPECTRAL RESPONSE	SDS	0.056
	COEFFICIENTS	SD1	0.054
	SEISMIC DESIGN CATEGORY		A
	BASIC SEISMIC FORCE RESISTING SYSTEM		LIGHT FRAMED WALLS WITH SHEAR PANELS OF OTHER MATERIALS
	RESPONSE MODIFICATION COEFFICIENT (R)		2.5
	DESIGN BASE SHEAR		0.01W
	ANALYSIS PROCEDURE		SIMPLIFIED
	STORED SALT EQUIVALENT LATERAL LOAD		72 PCF
	NET ALLOWABLE SOIL BEARING PRESSURE		1500 PSF
OTHER LOADS			

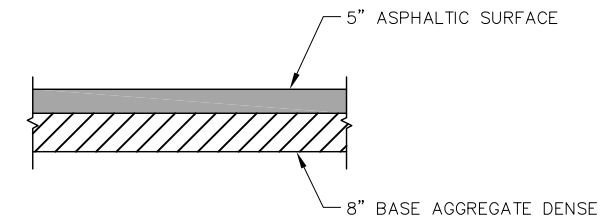
CONTINUOUS RIDGE VENT



SIDE ELEVATION OF BUILDING



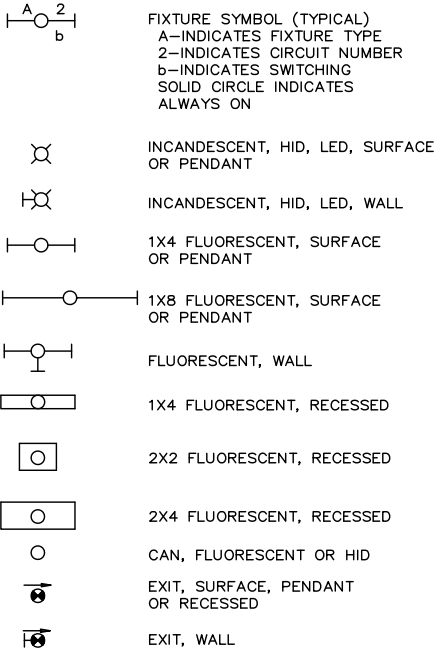
PIPE BOLLARD DETAIL



BUILDING FLOOR DETAIL

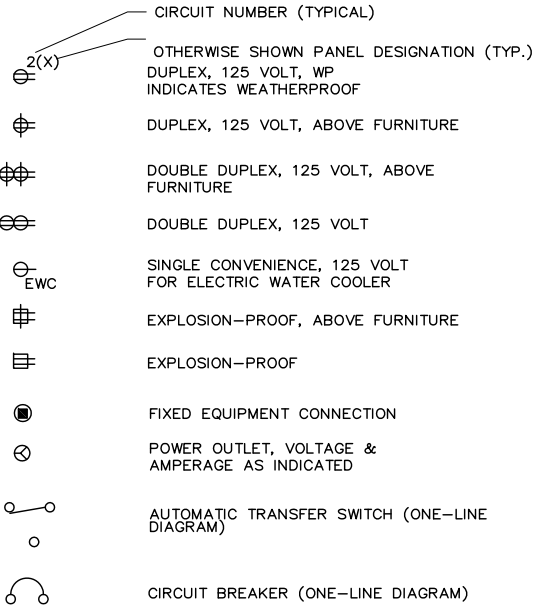
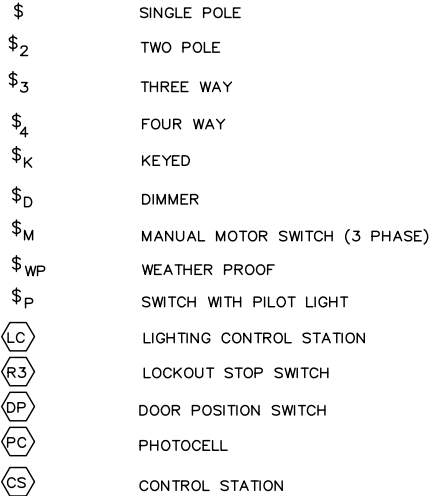
ELECTRICAL SYMBOLS

LIGHTING



EMERGENCY LIGHTING

SWITCHES



METER (ONE-LINE DIAGRAM)



PANELBOARD



EQUIPMENT AND WIRING



GROUND ROD 10'-5/8" DIA. COPPER CLAD



TRANSFORMER



DISCONNECT, F=FUSED, B=CIRCUIT BREAKER, BLANK=NON-FUSED



MOTOR STARTER MAGNETIC



CIRCUIT BREAKER COMBINATION STARTER



JUNCTION BOX



LINE VOLTAGE THERMOSTAT



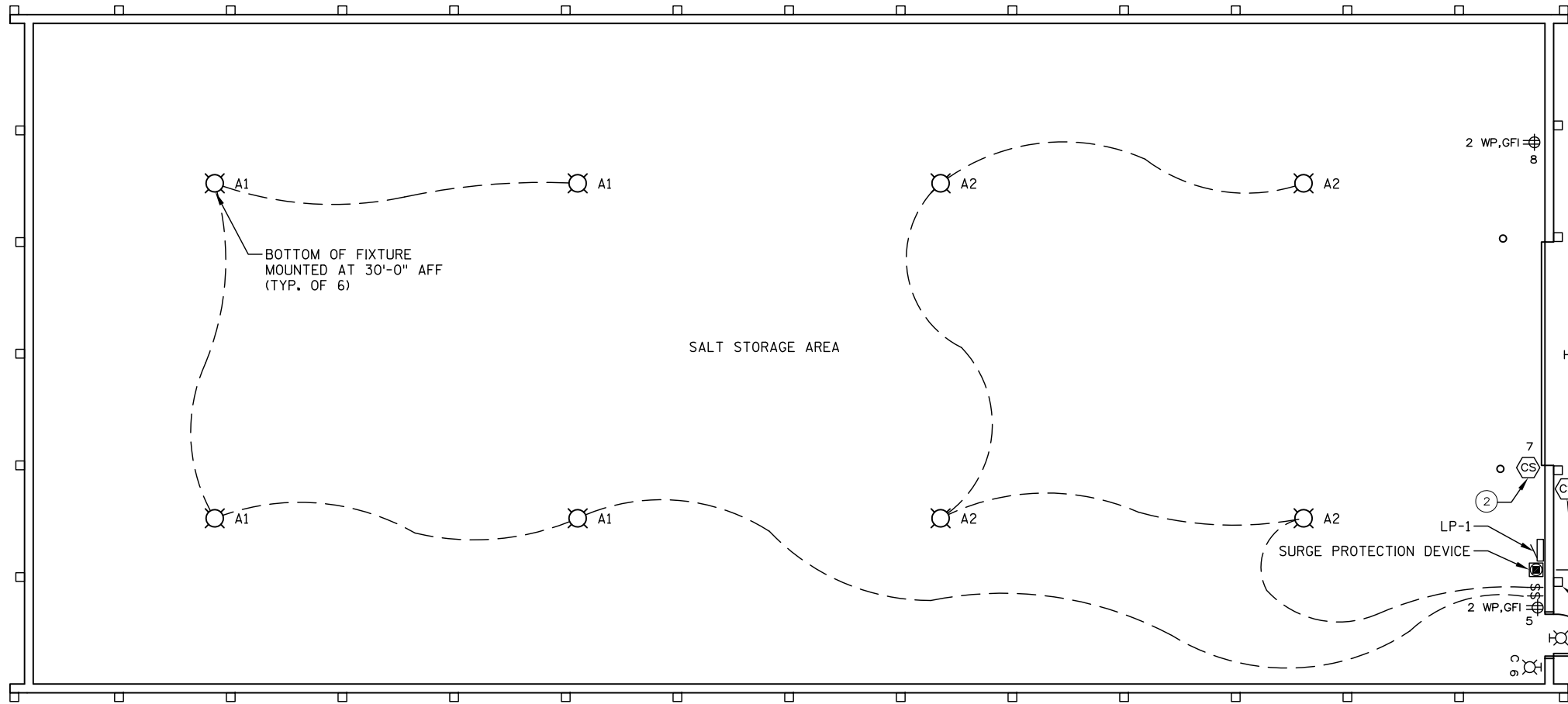
LINE VOLTAGE THERMOSTAT W/REMOTE BULB



480V LOAD, REFER TO MCC SCHEDULE FOR EQUIPMENT NUMBER



VARIABLE FREQUENCY DRIVE



FLOOR PLAN - ELECTRICAL

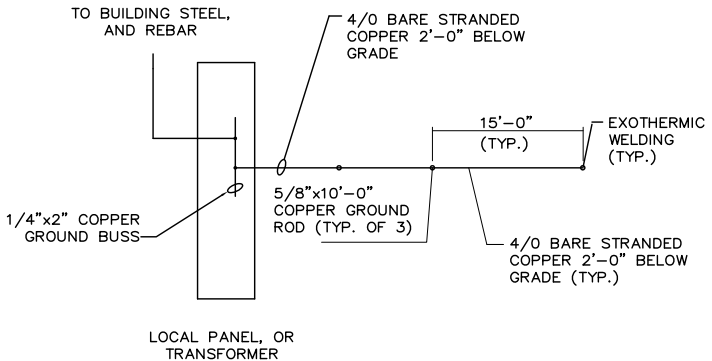
LP-1								
ROOM INSIDE SHED			VOLTS 240/120V 2P 3W			AIC 22,000		
MOUNTING SURFACE			BUS AMPS 100			MAIN BKR 100		
FED FROM UTILITY			NEUTRAL 100%			LUGS STANDARD		
NOTE NEMA 3R								
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/2	1.82	REAR (4) LIGHTING	A	2	20/2	1.82	FRONT (4) LIGHTING
3				B	4			
5	20/1	0.36	RECEPTACLE	A	6	20/1	0.253	EM & DUST TO DAWN LIGHTING
7	20/2	1.92	O/H DOOR	B	8	20/1	0.36	RECEPTACLE
9				A	10	20/1	0	SPACE
11	20/1	0	SPACE	B	12	20/1	0	SPACE
13	20/1	0	SPACE	A	14	20/1	0	SPACE
15	20/1	0	SPACE	B	16	20/1	0	SPACE
17	20/1	0	SPACE	A	18	20/1	0	SPACE
19	20/1	0	SPACE	B	20	20/1	0	SPACE
		<u>CONN. KVA</u>	<u>CALC. KVA</u>			<u>CONN. KVA</u>	<u>CALC. KVA</u>	
LIGHTING		3.89	4.87 (125%)	CONTINUOUS		0	0	(125%)
LARGEST MOTOR		0.72	0.72 (125%)	HEATING		0	0	(100%)
OTHER MOTORS		0	0 (100%)	NON CONTINUOUS		0	0	(100%)
RECEPTACLES		0.72	0.72 (50%>10)	KITCHEN EQUIP		0	0	(N/A)
				NONCOIN/DIVERSE		0	0	(N/A)
				TOTAL KVA		6.53	7.99	(N/A)

GENERAL NOTES:

1. THE UTILITY COMPANY IS WIPPI. THE SECONDARY SERVICE SHALL BE 120/240V, 3-WIRE, SINGLE PHASE.
2. COORDINATE THE NEW ELECTRICAL SERVICE WITH THE UTILITY AND ALL UTILITY COSTS SHALL BE INCLUDED WITH BID ITEM "SALT STORAGE FACILITY".

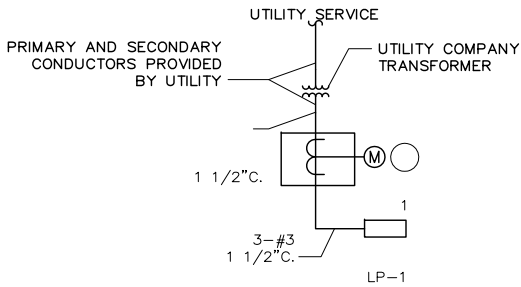
KEY NOTES:

- 1 METER SOCKET PROVIDED BY ELECTRICAL CONTRACTOR, METER PROVIDED BY UTILITY COMPANY.
- 2 OVERHEAD GARAGE DOOR CONTROLS FURNISHED AS SPECIFIED AND INSTALLED BY THIS CONTRACTOR. MOTOR DISCONNECT SHALL BE MOUNTED ADJACENT TO OPERATOR.



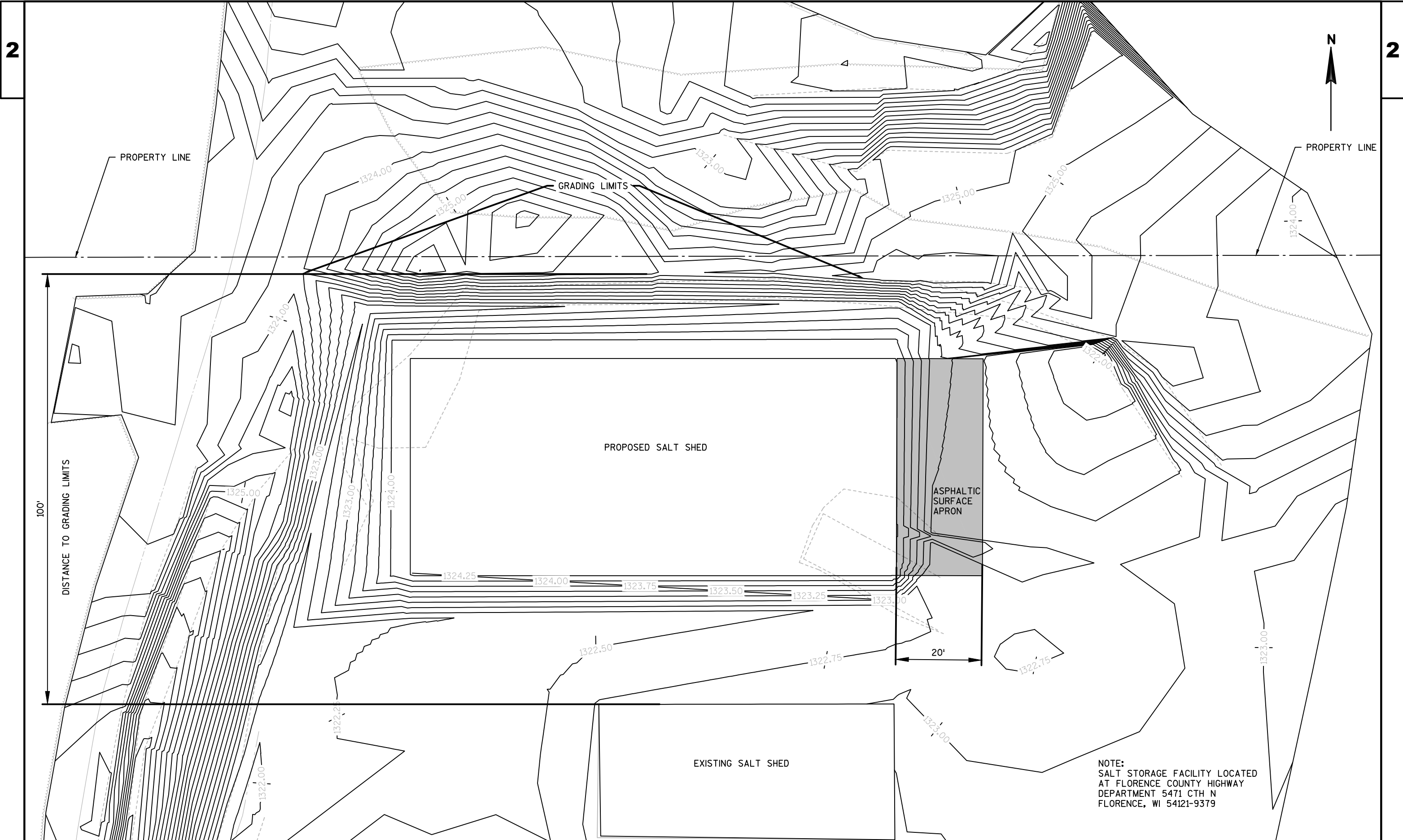
GROUND GRID DETAIL

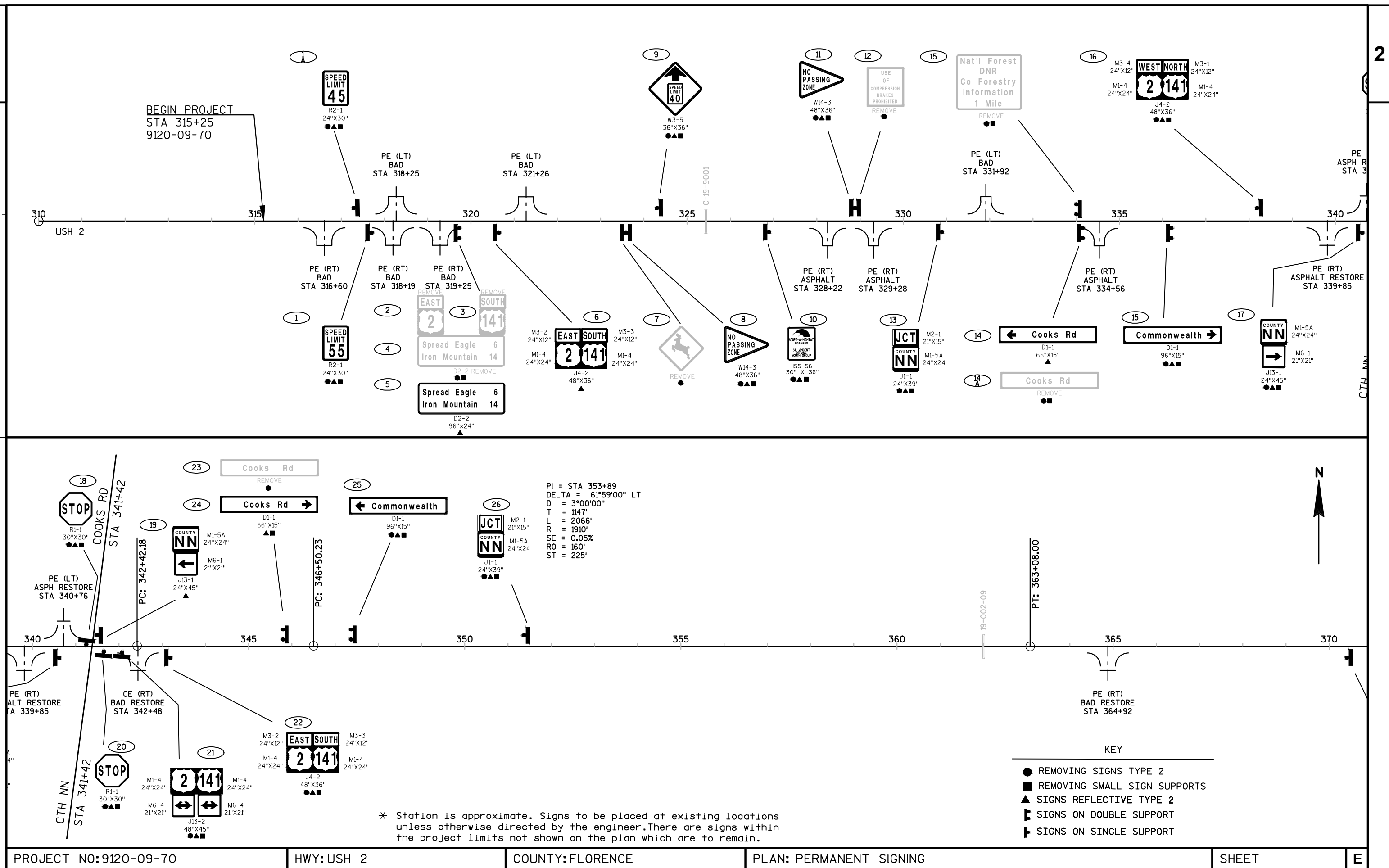
NO SCALE

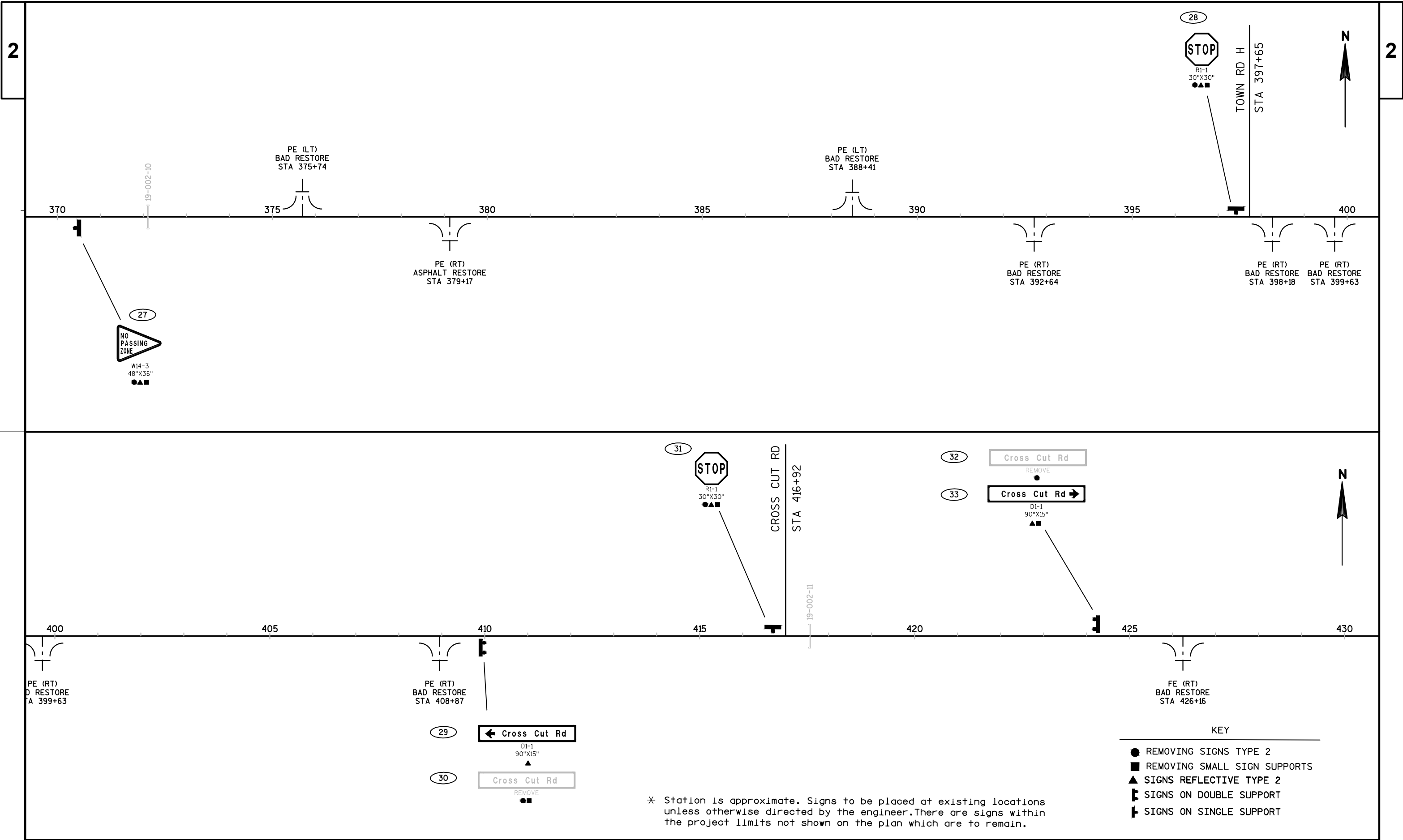


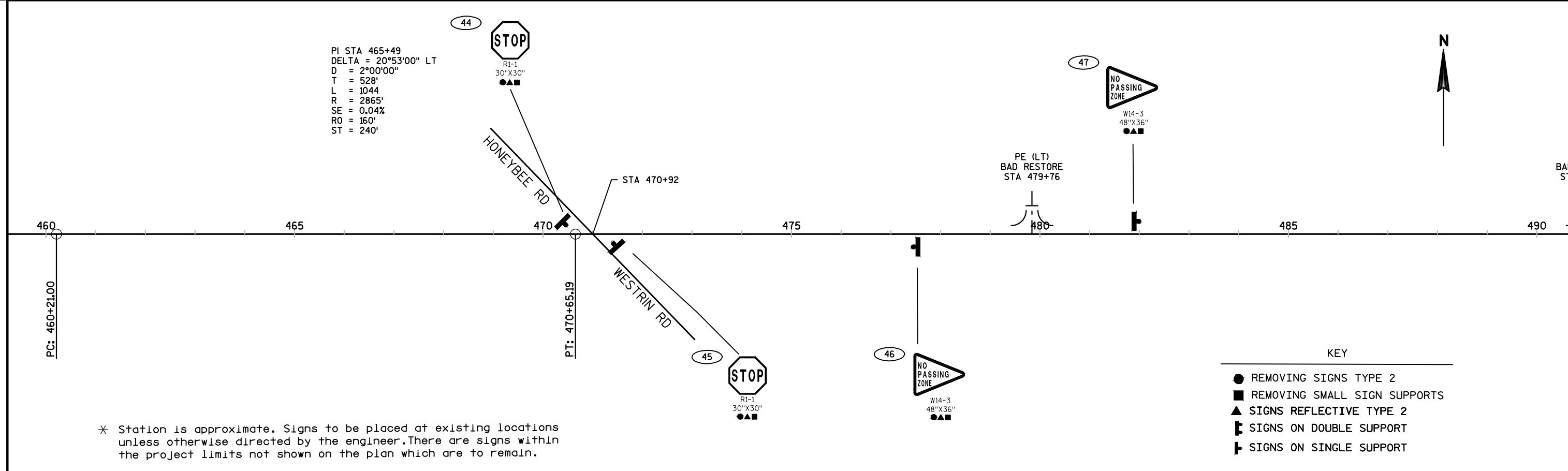
ONE-LINE DIAGRAM

NO SCALE



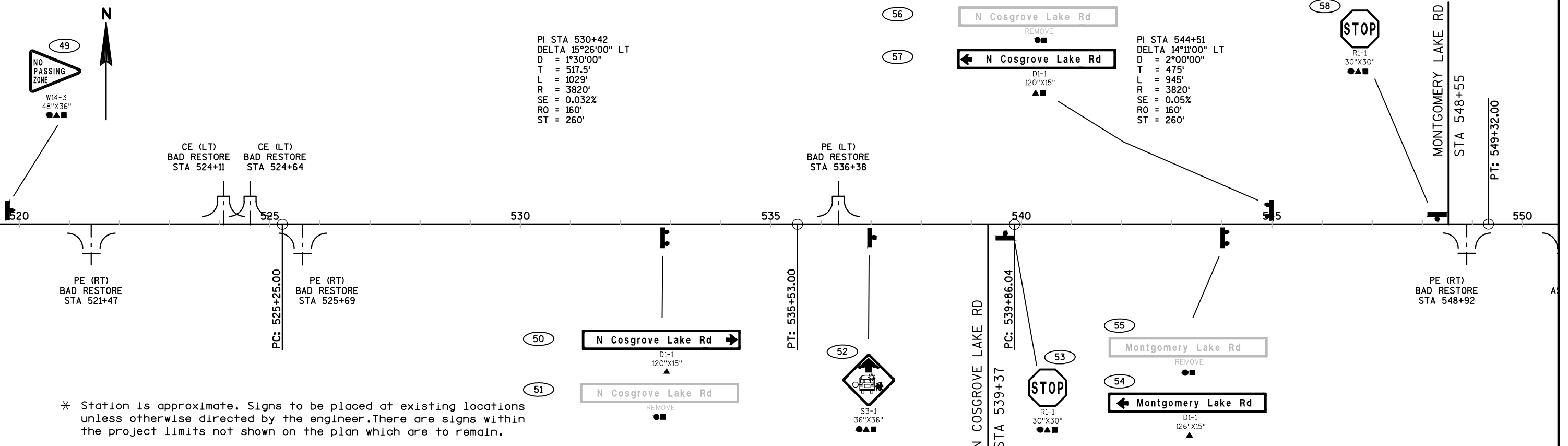
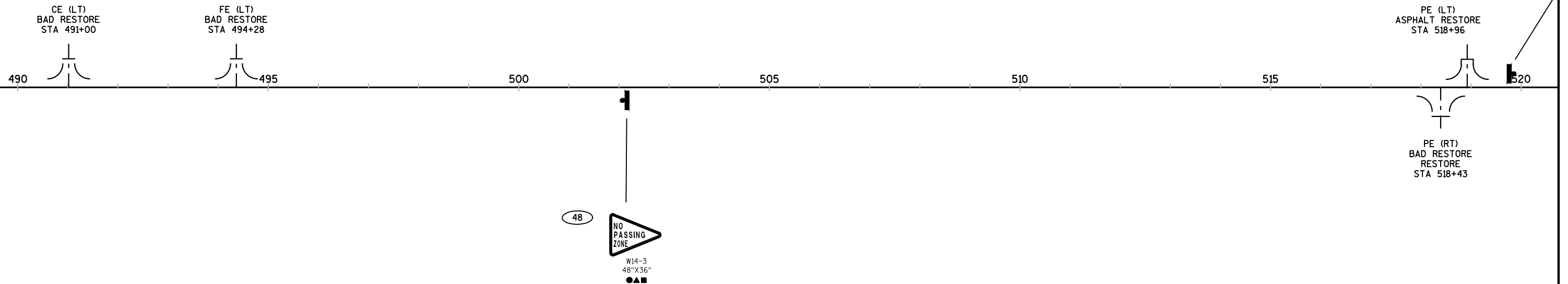


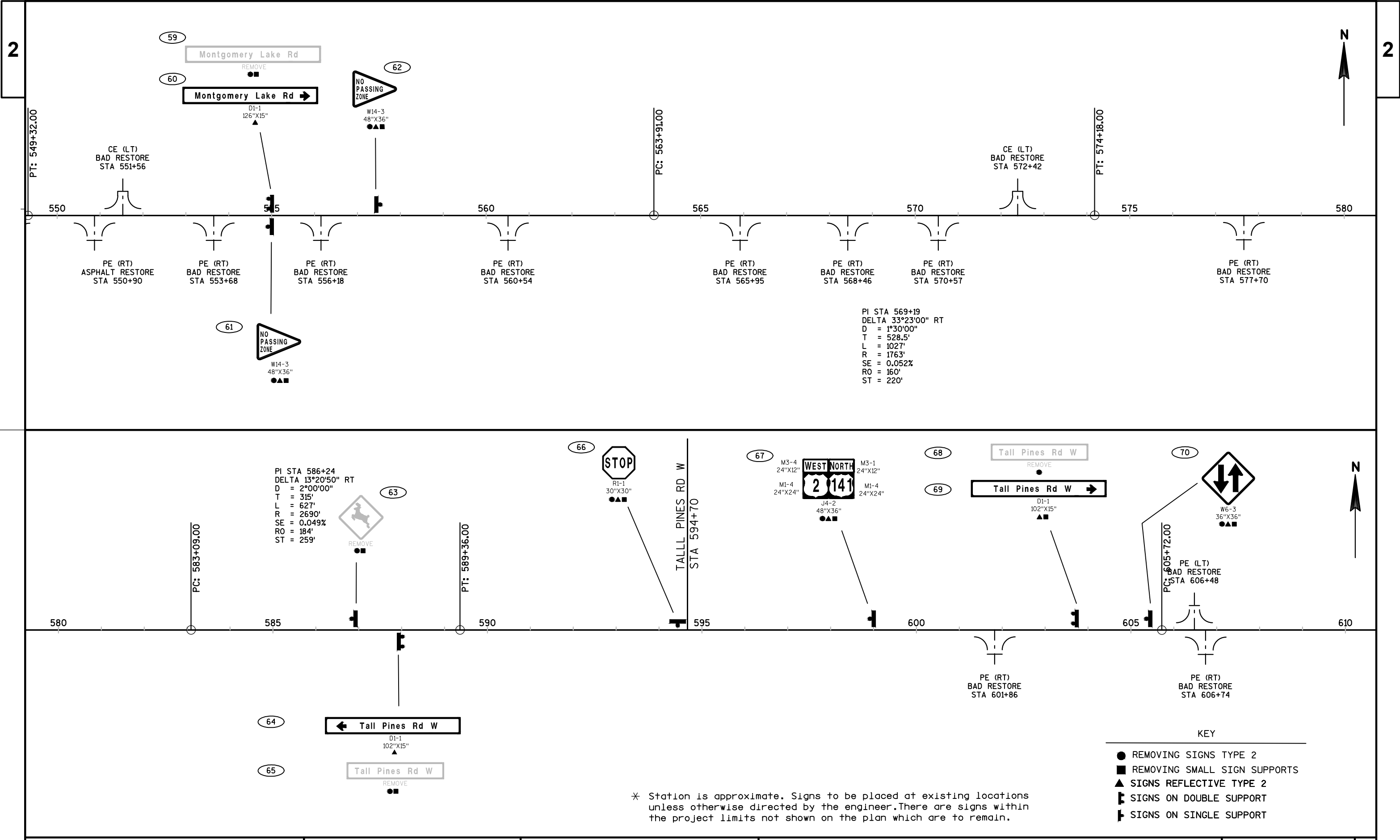


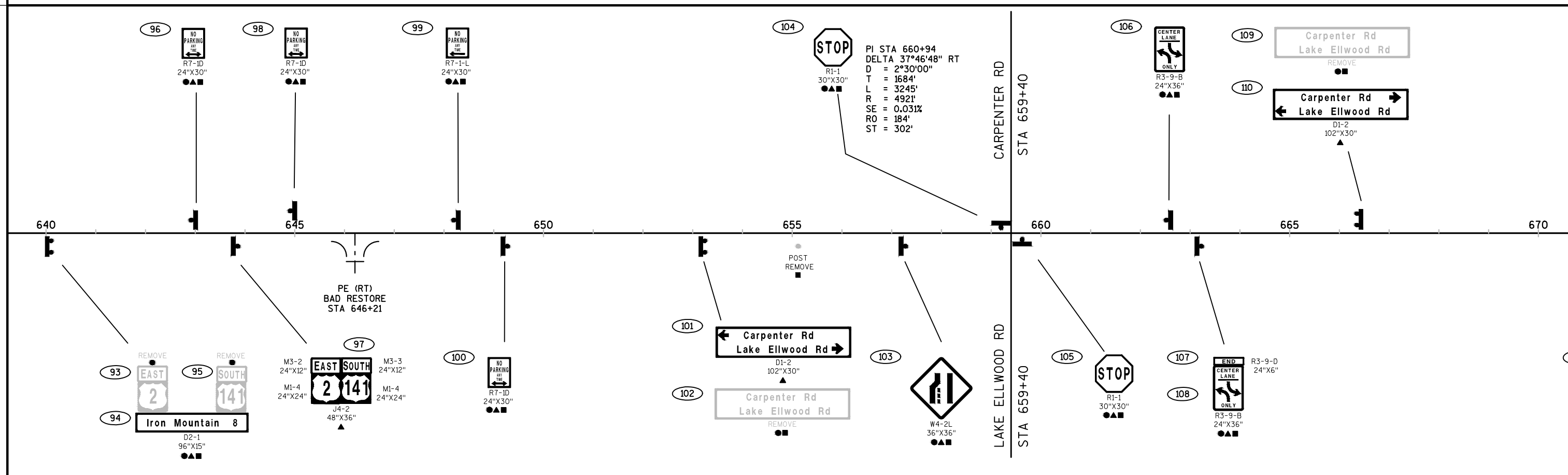
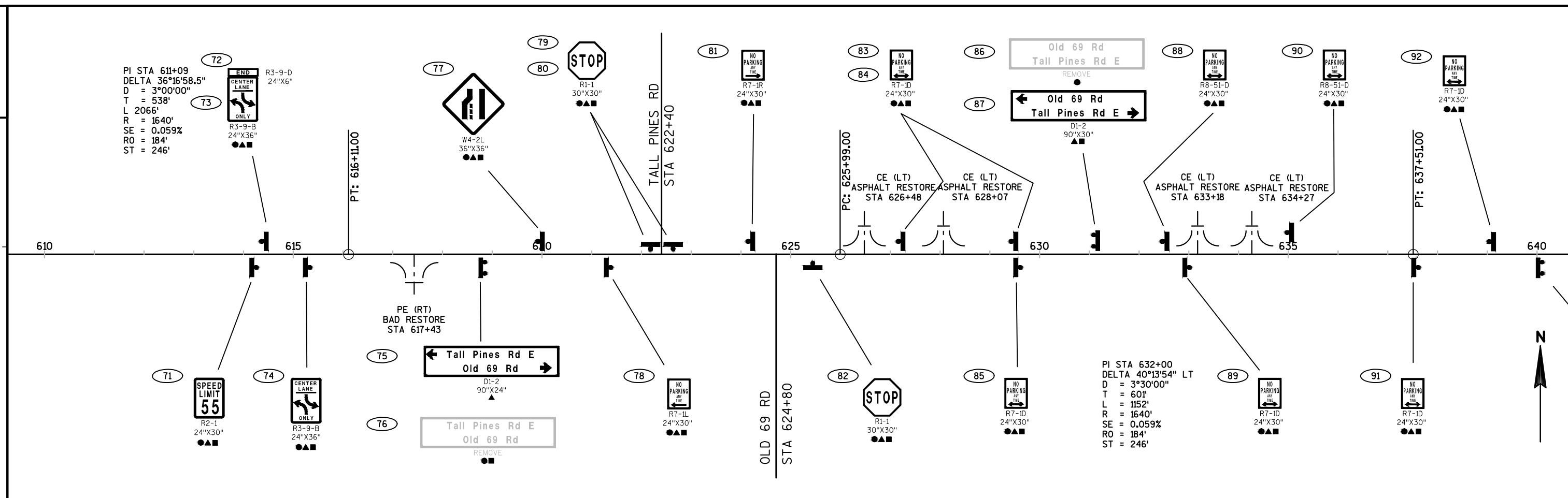


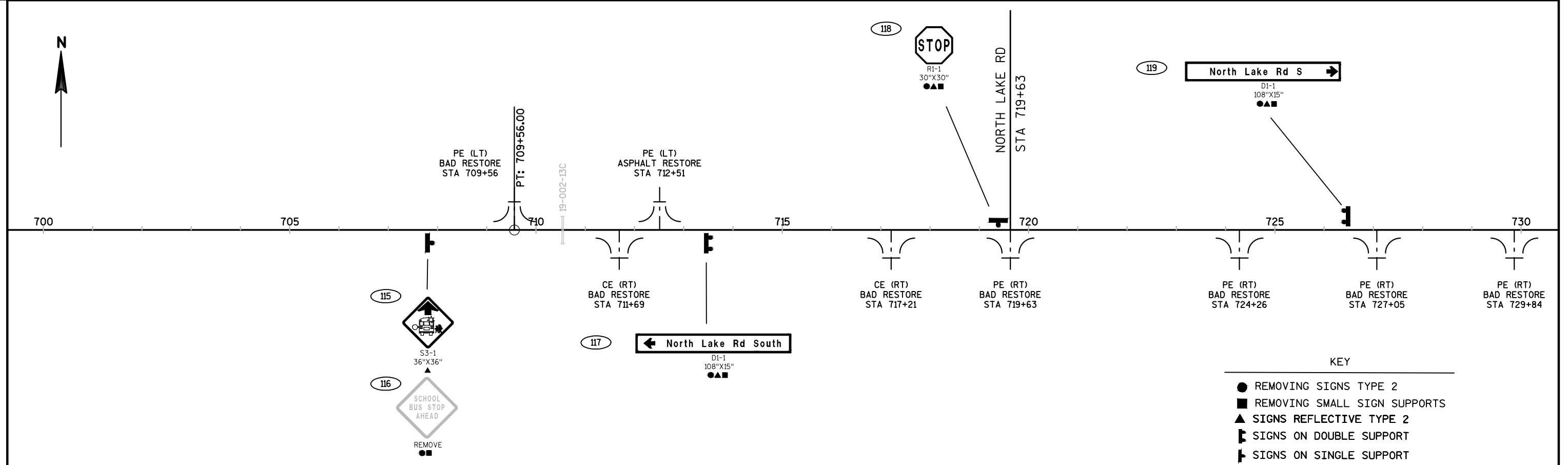
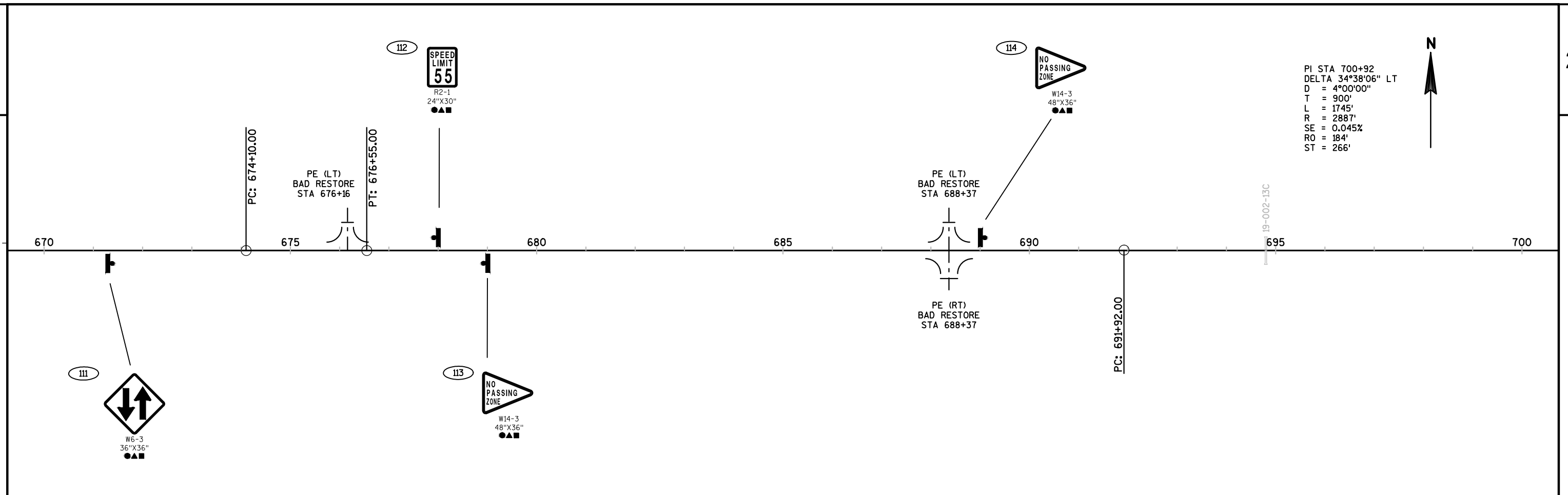
KEY

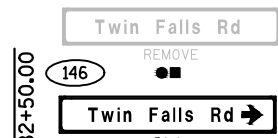
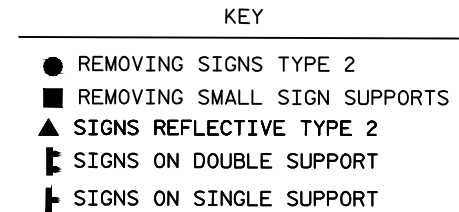
- REMOVING SIGNS TYPE 2
- REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- ⌋ SIGNS ON DOUBLE SUPPORT
- ⌋ SIGNS ON SINGLE SUPPORT

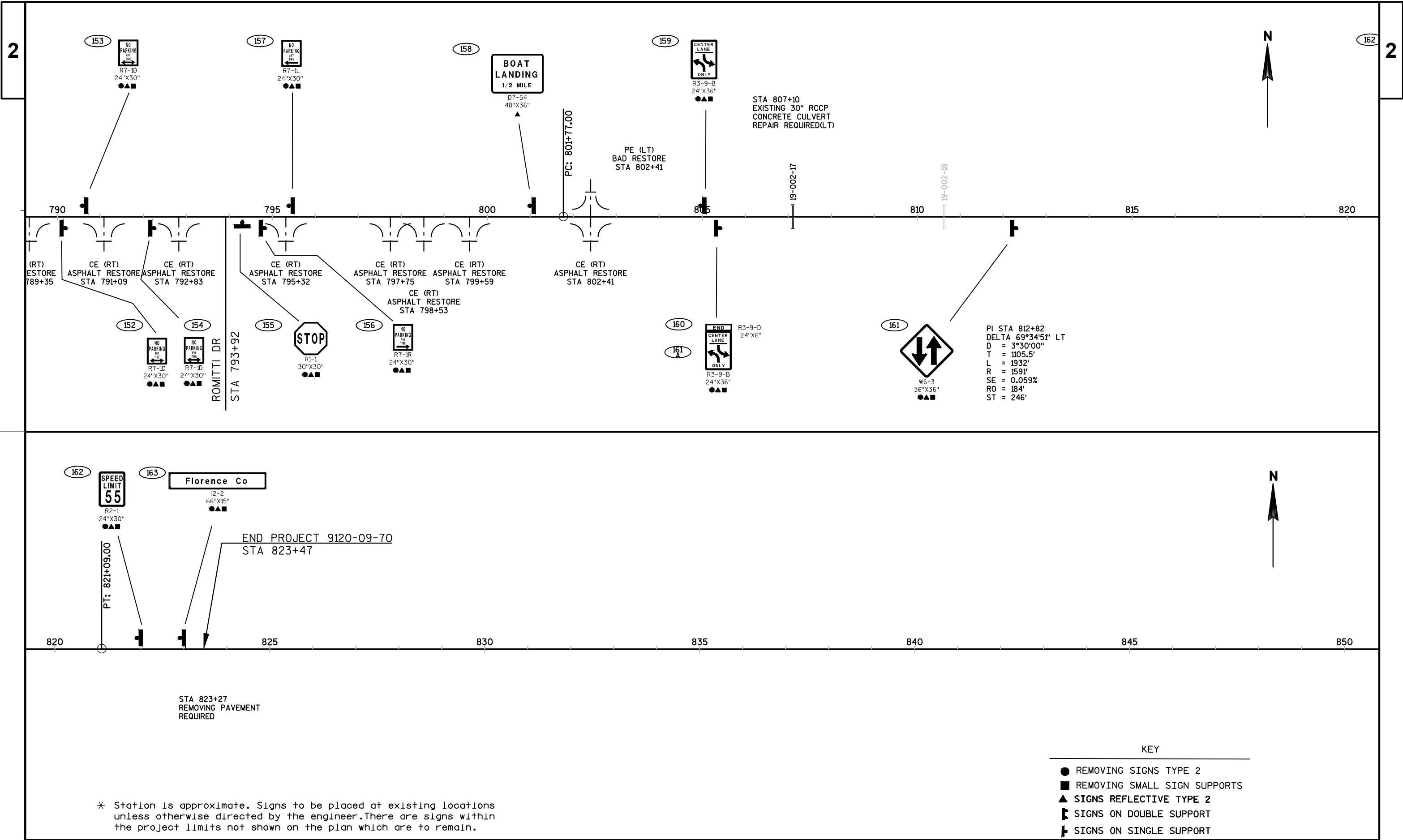


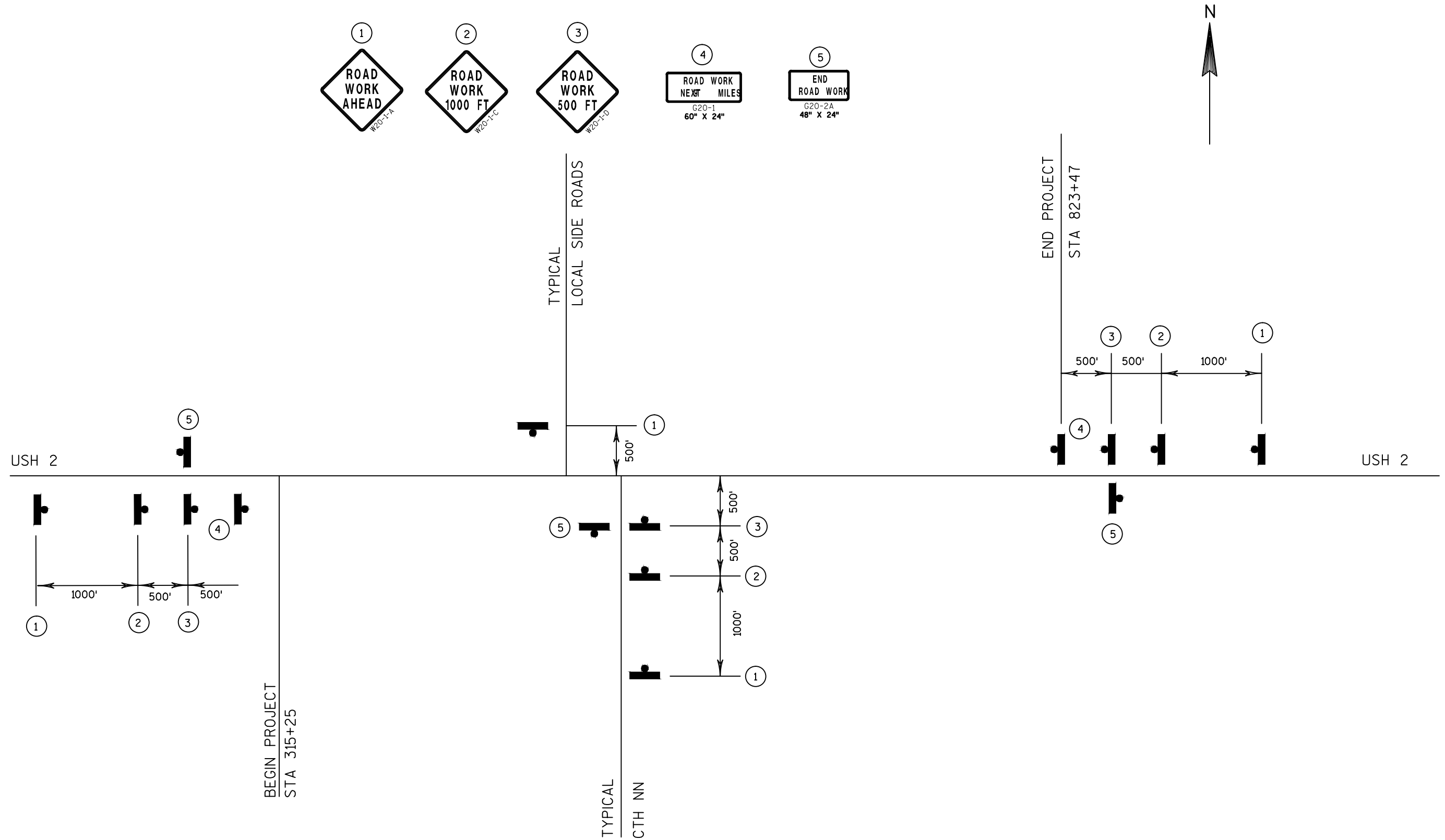












Estimate Of Quantities

9120-09-70

Line	Item	Item Description	Unit	Total	Qty
0010	204.0109.S	Removing Concrete Surface Partial Depth	SF	880.000	880.000
0020	204.0115	Removing Asphaltic Surface Butt Joints	SY	844.000	844.000
0030	204.0120	Removing Asphaltic Surface Milling	SY	191,675.000	191,675.000
0040	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	369.000	369.000
0050	213.0100	Finishing Roadway (project) 01. 9120-09-70	EACH	1.000	1.000
0060	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,616.000	3,616.000
0070	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	50.000	50.000
0080	305.0500	Shaping Shoulders	STA	965.000	965.000
0090	440.4410	Incentive IRI Ride	DOL	40,360.000	40,360.000
0100	455.0605	Tack Coat	GAL	13,152.000	13,152.000
0110	460.2000	Incentive Density HMA Pavement	DOL	12,990.000	12,990.000
0120	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	42,760.000	42,760.000
0130	460.6224	HMA Pavement 4 MT 58-28 S	TON	20,284.000	20,284.000
0140	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	370.000	370.000
0150	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	40,560.000	40,560.000
0160	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9120-09-70	EACH	1.000	1.000
0170	619.1000	Mobilization	EACH	1.000	1.000
0180	624.0100	Water	MGAL	10.000	10.000
0190	625.0100	Topsoil	SY	60.000	60.000
0200	628.1504	Silt Fence	LF	60.000	60.000
0210	628.1520	Silt Fence Maintenance	LF	60.000	60.000
0220	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0230	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0240	628.2006	Erosion Mat Urban Class I Type A	SY	60.000	60.000
0250	628.7555	Culvert Pipe Checks	EACH	10.000	10.000
0260	629.0210	Fertilizer Type B	CWT	0.100	0.100
0270	630.0120	Seeding Mixture No. 20	LB	0.180	0.180
0280	633.5200	Markers Culvert End	EACH	18.000	18.000
0290	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	127.000	127.000
0300	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	28.000	28.000
0310	637.2210	Signs Type II Reflective H	SF	818.120	818.120
0320	637.2230	Signs Type II Reflective F	SF	152.000	152.000
0330	638.2602	Removing Signs Type II	EACH	134.000	134.000
0340	638.3000	Removing Small Sign Supports	EACH	153.000	153.000
0350	642.5201	Field Office Type C	EACH	1.000	1.000
0360	643.0100	Traffic Control (project) 01. 9120-09-70	EACH	1.000	1.000
0370	643.0300	Traffic Control Drums	DAY	1,000.000	1,000.000
0380	643.0900	Traffic Control Signs	DAY	1,000.000	1,000.000
0390	646.0106	Pavement Marking Epoxy 4-Inch	LF	40,560.000	40,560.000

Estimate Of Quantities

9120-09-70

Line	Item	Item Description	Unit	Total	Qty
0400	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	78,300.000	78,300.000
0410	646.0842.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch	LF	101,830.000	101,830.000
0420	646.0844.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 8-Inch	LF	450.000	450.000
0430	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	34.000	34.000
0440	648.0100	Locating No-Passing Zones	MI	9.200	9.200
0450	649.0403	Temporary Pavement Marking Epoxy 4-Inch	LF	64,980.000	64,980.000
0460	650.8000	Construction Staking Resurfacing Reference	LF	48,210.000	48,210.000
0470	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0480	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0490	SPV.0060	Special 01. Concrete Culvert Repair	EACH	1.000	1.000
0500	SPV.0105	Special 01. Salt Storage Facility Building	LS	1.000	1.000
0510	SPV.0105	Special 02. Salt Storage Facility Electric	LS	1.000	1.000
0520	SPV.0105	Special 03. Salt Storage Facility Site Improvements	LS	1.000	1.000

204.0109.S Removing Concrete Surface Partial Depth		
STATION	LOCATION	(SF)
823+27 - 823+47	B19-006 APPROACH SLAB	880
TOTAL		880

204.0120 REMOVING ASPHALTIC SURFACE MILLING 1.75-IN		
STATION	LOCATION	(SY)
315+35 - 615+54	USH 2	100,097
615+54 - 622+40	USH 2	4,116
622+40 - 646+73	USH 2	13,517
646+73 - 667+32	USH 2	13,040
667+32 - 762+53	USH 2	31,737
762+53 - 766+22	USH 2	1,025
766+22 - 773+61	USH 2	2,463
773+61 - 778+37	USH 2	1,322
778+37 - 786+81	USH 2	2,813
786+81 - 807+53	USH 2	6,331
807+53 - 823+47	USH 2	5,313
INTERSECTIONS/DRIVEWAYS	USH 2	9,900
TOTAL		191,675

305.0110 BASE AGGREGATE DENSE 3/4 INCH			
STATION	LOCATION	(TON)	COMMENT
315+25 - 622+40	USH 2 SHOULDER	2,086	
622+40 - 646+73	USH 2 SHOULDER	83	
646+73 - 667+32	USH 2 SHOULDER	112	
667+32 - 766+22	USH 2 SHOULDER	646	
766+22 - 773+61	USH 2 SHOULDER	25	
773+61 - 786+81	USH 2 SHOULDER	57	
786+81 - 807+53	USH 2 SHOULDER	70	
807+53 - 823+47	USH 2 SHOULDER	108	
PE's & CE's	USH 2	319	
UNDISTRIBUTED	USH 2 SHOULDER	110	NO MILL SECTIONS
TOTAL		3,616	

204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS		
STATION	LOCATION	(SY)
315+25 - 315+35	USH 2 MAINLINE	34
315+25 - 823+47	INTERSECTIONS/DRIVEWAYS	810
TOTAL		844

211.0400 PREPARE FOUNDATION FOR ASPHALT SHOULDERS		
STATION	LOCATION	(STA)
595+00 - 622+40 LT	USH 2	27
595+00 - 646+73 RT	USH 2	51
646+73 - 773+61 LT	USH 2	127
667+32 - 762+53 RT	USH 2	95
778+37 - 786+81 RT	USH 2	8
778+37 - 823+47 LT	USH 2	45
807+53 - 823+47 RT	USH 2	16
TOTAL		369

305.0120 BASE AGGREGATE DENSE 1 1/4 INCH		
STATION	LOCATION	(TON)
807+10	CULVERT	50
TOTAL		50

305.0500 SHAPING SHOULDERS			
STATION	LOCATION	(STA)	COMMENT
315+25 - 820+98	USH 2	965	EXCLUDES C&G AND NO MILL SECTIONS
TOTAL		965	

HMA PAVEMENT

		455.0605 TACK COAT	460.6224 HMA PAVEMENT 4 MT 58-28 S	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTERANCES	465.0475 ASPHALT CENTER LINE RUMBLE STRIPS 2-LANE RURAL
STATION	LOCATION	(GAL)	(TON)	(LF)	(TON)	(LF)
315+25 - 823+47	USH 2	12,724	19,684	42760		40560
INTERSECTIONS	USH 2	428	600			
DRIVEWAYS	USH 2	263				
				370		
TOTAL		13,152	20,284	42,760	370	40,560

EROSION CONTROL

		628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL	628.7555 CULVERT PIPE CHECKS
STATION	LOCATION	(LF)	(LF)	(EACH)	(EACH)	(EACH)
315+25 - 823+47	USH 2	60	60	2	2	10
TOTAL		60	60	2	2	10

STATION	LOCATION	624.0100 WATER (MGAL)
315+25 - 823+47	USH 2	10
TOTAL		10

TOPSOIL, EROSION MAT, FERTILIZER AND SEEDING

		625.0100 TOPSOIL	628.2006 EROSION MAT URBAN CLASS I TYPE A	629.0210 FERTILIZER TYPE B	630.0120 SEEDING MIXTURE NO. 20
STATION	LOCATION	(SY)	(SY)	(CWT)	(LB)
807+10	CULVERT	60	60	0.1	0.18
TOTAL		60	60	0.1	0.18

STATION	PIPE #	633.5200 MARKERS CULVERT END (EACH)
362+00	19-002-0090	2
372+15	19-002-0100	2
417+50	19-002-0110	2
444+40	19-002-0120	2
694+75	19-002-0130	2
710+50	19-002-0140	2
731+10	19-002-0150	2
747+00	19-002-0160	2
807+10	19-002-0170	2
TOTAL		18

3

PERMANENT SIGNING PROJECT ID 9120-09-00				638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	634.0616 POSTS WOOD 4X6-INCH X 16-FT	634.0618 POSTS WOOD 4X6-INCH X 18-FT	MOUNT ON SAME POST AS SIGN #	DESCRIPTION	COMMENTS
STATION	LOCATION	SIGN #	SIGN CODE	SIZE	(EACH)	(EACH)	(SF)	(SF)	(EACH)	(EACH)		
STH 2 EB												
317+70	RT	1	R2-1	24x30	1	1	5.000		1		Speed Limit __ MPH	55
319+50	RT	2	M3-2	24x12	1						Cardinal Direction Marker for J Assembly	EAST
			M1-4	24x24							USH Route Marker for Assemblies	2
		3	M3-3	24x12							Cardinal Direction Marker for J Assembly	SOUTH
			M1-4	24x24							USH Route Marker for Assemblies	141
		4	D2-2			2					Spread Eagle 6 / Iron Mountain 14	
		5	D2-2	96x24			16.000		2		Spread Eagle 6 / Iron Mountain 14	
320+55	RT	6	J4-2	48x36			12.000		1		Reassurance Assembly (2 Headed Route Panel)	
			M3-2	24x12							Cardinal Direction Marker for J Assembly	EAST
			M1-4	24x24							USH Route Marker for Assemblies	2
			M3-3	24x12							Cardinal Direction Marker for J Assembly	SOUTH
			M1-4	24x24							USH Route Marker for Assemblies	141
323+70	RT	7	W11-3	30x30	1						Deer Crossing	
326+90	RT	10	I55-56	30x36		1	7.500		1		Adopt-A-Highway Sponsor (Name)	St Vincent Depaul Youth Group
328+90	LT	11	W14-3	48x36	1	1		6.000	1		No Passing Zone	
330+95	RT	13	J1-1	24x39	1	1	6.500		1		Junction or End Assembly	CTH NN Junction
			M2-1	21x15							JCT	
			M1-5A	24x24							CTH Route Marker 2 or 3 Letters	NN
334+00	RT	14	D1-1	66x15			6.875		2		One Destination (Arrow)	<- Cooks Rd
	RT	14A			1	2					One Destination	Cooks Rd
336+05	RT	15	D1-1	96x15	1	2	10.000		2		One Destination (Arrow)	Commonwealth ->
340+50	RT	17	J13-1	24x45	1	1	7.500		1		Directional without Cardinal (1 Headed Route Panel)	
			M1-5A	24x24							CTH Route Marker 2 or 3 Letters	NN
			M6-1	21X21							Directional Arrows for J Assemblies	Right
341+95	RT	20	R1-1	30x30	1	1	5.180		1		Stop	CTH NN
342+00	RT	21	J13-2	48x45	1	1	15.000		1		Directional without Cardinal (2 Headed Route Panel)	On CTH NN
			M1-4	24x24							USH Route Marker for Assemblies	2
			M6-4	21x21							Double Directional Arrows for J Assemblies	<-> (New)
			M1-4	24x24							USH Route Marker for Assemblies	141
			M6-4	21x21							Double Directional Arrows for J Assemblies	<->
343+53	RT	22	J4-2	48x36	1	1	12.000		1		Reassurance Assembly (2 Headed Route Panel)	
			M3-2	24x12							Cardinal Direction Marker for J Assembly	EAST
			M1-4	24x24							USH Route Marker for Assemblies	2
			M3-3	24x12							Cardinal Direction Marker for J Assembly	SOUTH
			M1-4	24x24							USH Route Marker for Assemblies	141
410+59	RT	29	D1-1	90x15			9.375		2		One Destination (Arrow)	<- Cross Cut Rd
		30			1	2					One Destination	Cross Cut Rd
437+52	RT	34	D1-1	90x15			9.375		2		One Destination (Arrow)	Condroski Rd ->
	RT	35			1	2					One Destiantion	Condroski Rd
441+50	RT	36	I55-56	30x36	1	1					Adopt-A-Highway Sponsor (Name)	Florence Education Association
444+38	RT	38	R1-1	30x30	1	2	5.180		1		Stop	Condroski Rd
453+36	LT	41	W14-3	48x36	1	1		6.000	1		No Passing Zone	
454+41	RT	43	J4-2	48x36	1	1	12.000		1		Reassurance Assembly (2 Headed Route Panel)	New (Origionally Vertical)
			M3-2	24x12							Cardinal Direction Marker for J Assembly	EAST (New)
			M1-4	24x24							USH Route Marker for Assemblies	2
			M3-3	24x12							Cardinal Direction Marker for J Assembly	SOUTH (New)
			M1-4	24x24							USH Route Marker for Assemblies	141

3

3

PERMANENT SIGNING PROJECT ID 9120-09-00				638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	634.0616 POSTS WOOD 4X6-INCH X 16-FT	634.0618 POSTS WOOD 4X6-INCH X 18-FT	MOUNT ON SAME POST AS SIGN #	DESCRIPTION	COMMENTS
STATION	LOCATION	SIGN #	SIGN CODE	SIZE	(EACH)	(EACH)	(SF)	(SF)	(EACH)	(EACH)		
471+84	RT	45	R1-1	30x30	1	1	5.180		1		Stop	Westrin Rd
481+34	LT	47	W14-3	48x36	1	1		6.000	1		No Passing Zone	
519+36	LT	49	W14-3	48x36	1	1		6.000	1		No Passing Zone	
533+08	RT	50	D1-1	120x15			12.500		2		One Destination (Arrow)	N Cosgrove Lake Rd ->
	RT	51			1	2					One Destination	N Cosgrove Lake Rd
537+84	RT	52	S3-1	36x36	1	1		9.000	1		School Bus Stop Ahead	Symbol
539+95	RT	53	R1-1	30x30	1	1	5.180		1		Stop	North Cosgrove Lake Rd
543+64	RT	54	D1-1	126x15			13.125		2		One Destination (Arrow)	<- Montgomery Lake Rd
	RT	55			1	2					One Destinatioin	Montgomery Lake Rd
557+60	LT	62	W14-3	48x36	1	1		6.000	1		No Passing Zone	
588+00	RT	64	D1-1	102x15			10.625		2		One Destination (Arrow)	<- Tall Pines Rd W
	RT	65			1	2					One Destination	Tall Pines Rd
614+10	RT	71	R2-1	24x30	1	1	5.000			1	Speed Limit __ MPH	55
615+15	RT	74	R3-9B	24x36	1	1	6.000			1	Center Turn Left Turn Only Symbol	
618+62	RT	75	D1-2	90x30			18.750			2	Two Destinations (Arrows)	<- Tall Pines Rd E / Old 69 Rd ->
	RT	76			1	2					Two Destinations	Tall Pines Rd / Old 69 Rd
621+79	RT	78	R7-1L	24x30	1	1	5.000		1		No Parking Any Time - LEFT Arrow	
625+00	RT	82	R1-1	30x30	1	1	5.180		1		Stop	Old 69 Rd
628+65	RT	85	R7-1D	24x30	1	1	5.000		1		No Parking Any Time - Double Arrow	
632+35	RT	89	R7-1D	24x30	1	1	5.000		1		No Parking Any Time - Double Arrow	
637+50	RT	91	R7-1D	24x30	1	1	5.000		1		No Parking Any Time - Double Arrow	
640+00	RT	93	M3-2	24x12	1	2					Cardinal Direction Marker for J Assembly	EAST
			M1-4	24x24							USH Route Marker for Assemblies	2
		95	M3-3	24x12							Cardinal Direction Marker for J Assembly	SOUTH
			M1-4	24x24							USH Route Marker for Assemblies	141
		94	D2-1	96x15			10.000		2		Iron Mountain 8	
643+80	RT	97	J4-2	48x36			12.000			1	Reassurance Assembly (2 Headed Route Panel)	New
			M3-2	24x12							Cardinal Direction Marker for J Assembly	EAST
			M1-4	24x24							USH Route Marker for Assemblies	2
			M3-3	24x12							Cardinal Direction Marker for J Assembly	SOUTH
			M1-4	24x24							USH Route Marker for Assemblies	141
649+10	RT	100	R7-1R	24x30	1	1	5.000		1		No Parking Any Time - RIGHT Arrow	
653+10	RT	101	D1-2	102x30			21.250		2		Two Destinations (Arrows)	<- Carpenter Rd / Lake Ellwood Rd ->
	RT	102			1	2					Two Destinations	Carpenter Rd / Lake Ellwood Rd
655+05	RT					1					Wooden Sign Post	
657+16	RT	103	W4-2L	30x30	1	1		6.250	1		Left Lane Ends	
659+55	RT	105	R1-1	30x30	1	1	5.180		1		Stop	Lake Ellwood Rd
663+05	RT	107	R3-9D	24x6	1	1	1.000				End	
663+05	RT	108	R3-9B	24x36	1		6.000		1	107	Center Turn Left Turn Only Symbol	
671+25	RT	111	W6-3	30x30	1	1		6.250	1		Two-Way Traffic Symbol	
689+00	LT	114	W14-3	48x36	1	1		6.000	1		No Passing Zone	
707+90	RT	115	S3-1	30x30					6.250	1	School Bus Stop Ahead (Symbol)	
	RT	116			1	1					School Bus Stop Ahead (Words)	
713+66	RT	117	D1-1	108x15	1	2	11.250		2		One Destination (Arrow)	<- North Lake Rd S
746+70	LT	121	W14-3	48x36	1	1		6.000	1		No Passing Zone	
748+50	RT	122	D7-54	48x36			12.000		1		Boat Landing _ Mile	1/2
762+00	RT	123	R7-1L	24x30	1	1	5.000		1		No Parking Any Time - LEFT Arrow	

PROJECT NO: 9120- 09 - 70

HWY: USH 2

COUNTY: FLORENCE

MISCELLANEOUS QUANTITIES

SHEET:

E

FILE NAME :PLOT DATE :PLOT BY :PLOT NAME :PLOT SCALE : 1:1

3

PERMANENT SIGNING PROJECT ID 9120-09-00				638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	634.0616 POSTS WOOD 4X6-INCH X 16-FT	634.0618 POSTS WOOD 4X6-INCH X 18-FT	MOUNT ON SAME POST				
STATION	LOCATION	SIGN #	SIGN CODE	SIZE	(EACH)	(EACH)	(SF)	(SF)	(EACH)	(EACH)	AS SIGN #	DESCRIPTION	COMMENTS	
765+93	RT	126	D1-1	90x15			9.375		2			One Destination (Arrow)	<- Twin Falls Rd	
	RT	128			1	2						One Destination	Twin Falls Rd	
765+93	RT	127	R7-1D	24x30	1		5.000		1	126		No Parking Any Time - Double Arrow		
768+04	RT	129	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow		
773+00	RT	131	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow		
774+25	RT	132	D7-56L	48x36			12.000		1			Boat Landing (Arrow)	<-	
778+30	RT	139	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow		
781+50	RT	143	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow		
784+10	RT	148	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow		
787+65	RT	151	R3-9B	24x36	1	1	6.000		1			Center Turn Left Turn Only Symbol		
790+05	RT	152	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow		
792+15	RT	154	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow		
794+00	RT	155	R1-1	30x30	1	1	5.180		1			Stop	Romitti Dr	
794+75	RT	156	R7-1R	24x30	1	1	5.000		1			No Parking Any Time - RIGHT Arrow		
805+15	RT	160	R3-9D	24x6	1	1	1.000					End		
805+15	RT	160A	R3-9B	24x36	1		6.000			160		Center Turn Left Turn Only Symbol		
812+10	RT	161	W6-3	30x30	1	1		6.250	1			Two-Way Traffic Symbol		
Subtotal					62	74	414.260	76.000	59	16				
USH 2 WB														
317+40	LT	1A	R2-1	24x30	1	1	5.000		1			Speed Limit __ MPH	40	
323+70	LT	8	W14-3	48x36	1	1		6.000	1			No Passing Zone		
324+40	RT	9	W3-5	36x36	1	1		9.000	1			Reduced Speed Ahead	40 MPH	
328+95	RT	12			1					11		Use of Compression Brakes Prohibited	Remove	
334+05	RT	15			1	2			2			Nat'l Forest/DNR/Co Forestry Information 1 Mile	Reinstall existing sign	
338+30	RT	16	J4-2	48x36	1	1	12.000			1		Reassurance Assembly (2 Headed Route Panel)		
			M3-4	24x12								Cardinal Direction Marker for J Assembly	WEST	
			M1-4	24x24								USH Route Marker for Assemblies	2	
			M3-1	24x12								Cardinal Direction Marker for J Assembly	NORTH	
			M1-4	24x24								USH Route Marker for Assemblies	141	
341+30	RT	18	R1-1	30x30	1	1	5.180		1			Stop	Cooks Rd	
341+55	RT	19	J13-1	24X45	1	1	7.500			1		Directional without Cardinal (1 Headed Route Panel)		
			M1-5A	24x24								CTH Route Marker 2 or 3 Letters	NN	
			M6-1	21X21								Directional Arrows for J Assemblies	Left	
345+95	RT	24	D1-1	66x15			6.875		2			One Destination (Arrow)	<- Cooks Rd ->	
	RT	23	D1-1		1	2						One Destination	Cooks Rd	
347+45	RT	25	D1-1	96x15	1	2	10.000		2			One Destination (Arrow)	<- Commonwealth	
351+50	RT	26	J1-1	24x39	1	1	6.500			1		Junction or End Assembly	CTH NN Junction	
			M2-1	21x15								JCT		
			M1-5A	24x24								CTH Route Marker 2 or 3 Letters	NN	
370+50	LT	27	W14-3	48x36	1	1		6.000	1			No Passing Zone		
397+45	RT	28	R1-1	30x30	1	1	5.180		1			Stop	Town Rd H	
416+40	RT	31	R1-1	30x30	1	1	5.180		1			Stop	Cross Cut Rd	
434+20	RT	33	D1-1	90x15			9.375		2			One Destination (Arrow)	Cross Cut Rd ->	
	RT	32	D1-1		1	2						One Destination	Cross Cut Rd	
441+50	RT	37	I55-56	30x36	1	1	7.500			1		Adopt-A-Highway Sponsor (Name)	St Vincent DePaul Youth Group	
451+90	RT	40	D1-1	90x15			9.375			2		One Destination (Arrow)	<- Condroski Rd	
	RT	39	D1-1		1	2						One Destination	Condroski Rd	
PROJECT NO: 9120- 09 - 70					HWY: USH 2			COUNTY: FLORENCE			MISCELLANEOUS QUANTITIES			SHEET:
FILE NAME : _____					PLOT DATE : _____			PLOT BY : _____			PLOT NAME : _____			
								PLOT SCALE : 1:1						

3

PERMANENT SIGNING
PROJECT ID 9120-09-00

PERMANENT SIGNING				638.2602		638.3000		637.2210		634.0616		634.0618					
PROJECT ID 9120-09-00				REMOVING		REMOVING		SIGNS		POSTS WOOD		POSTS WOOD					
				SIGNS		SMALL SIGN		TYPE II		4X6-INCH		4X6-INCH		MOUNT ON			
				TYPE II		SUPPORTS		REFLECTIVE H		X 16-FT		X 18-FT		SAME POST			
STATION	LOCATION	SIGN #	SIGN CODE	SIZE	(EACH)	(EACH)	(SF)	(SF)	(EACH)	(EACH)	AS SIGN #	DESCRIPTION				COMMENTS	
456+00	RT	42	J4-2	48x36	1	1	12.000			1		Reassurance Assembly (2 Headed Route Panel)				New (Origionally Vertical)	
			M3-4	24x12								Cardinal Direction Marker for J Assembly				WEST (New)	
			M1-4	24x24								USH Route Marker for Assemblies				2	
			M3-1	24x12								Cardinal Direction Marker for J Assembly				NORTH (New)	
			M1-4	24x24								USH Route Marker for Assemblies				141	
470+25	RT	44	R1-1	30x30	1	1	5.180		1			Stop				Honeybee Rd	
477+50	LT	46	W14-3	48x36	1	1		6.000	1			No Passing Zone					
502+00	LT	48	W14-3	48x36	1	1		6.000	1			No Passing Zone					
545+00	RT	57	D1-1	120x15			12.500		2			One Destination (Arrow)				<- N Cosgrove Lake Rd	
	RT	56	D1-1		1	2						One Destination				North Cosgrove Lake Rd	
548+25	RT	58	R1-1	30x30	1	1	5.180		1			Stop				N Montgomery Lake Rd	
555+00	RT	60	D1-1	126x15			13.125		2			One Destination (Arrow)				Montgomery Lake Rd ->	
	RT	59	D1-1		1	2						One Destiantion				Montgomery Lake Rd	
555+00	LT	61	W14-3	48x36	1	1		6.000	1			No Passing Zone					
587+00	RT	63	W11-3	30x30	1	1						Deer Crossing					
594+33	RT	66	R1-1	30x30	1	1	5.180		1			Stop				Tall Pines Rd W	
599+00	RT	67	J4-2	48x36	1	1	12.000			1		Reassurance Assembly (2 Headed Route Panel)					
			M3-4	24x12								Cardinal Direction Marker for J Assembly				WEST	
			M1-4	24x24								USH Route Marker for Assemblies				2	
			M3-1	24x12								Cardinal Direction Marker for J Assembly				NORTH	
			M1-4	24x24								USH Route Marker for Assemblies				141	
603+80	RT	69	D1-1	102x15			10.625		2			One Destination (Arrow)				Tall Pines Rd W ->	
	RT	68	D1-1		1	2						One Destination				Tall Pines Rd W	
605+50	RT	70	W6-3	30x30	1	1		6.250	1			Two-Way Traffic Symbol					
614+50	RT	72	R3-9D	24x6	1	1	1.000			1		End					
614+50	RT	73	R3-9B	24x36	1		6.000				72	Center Turn Left Turn Only Symbol					
620+00	RT	77	W4-2L	30x30	1	1		6.250	1			Left Lane Ends					
622+20	RT	79	R1-1	30x30	1	1	5.180		1	1		Stop				Tall Pines Rd (E)	
622+60	RT	80	R1-1	30x30	1	1	5.180		1			Stop				Tall Pines Rd (E)	
624+15	RT	81	R7-1R	24x30	1	1	5.000					No Parking Any Time - RIGHT Arrow					
627+10	RT	83	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow					
629+50	RT	84	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow					
631+05	RT	87	D1-2	90x30	1	2	18.750		2			Two Destinations (Arrows)				<- Old 69 Rd / Tall Pines Rd ->	
	RT	86														<- Gina Marie's Restaurant (to remain)	
632+60	RT	88	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow					
635+00	RT	90	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow					
639+15	RT	92	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow					
643+00	RT	96	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow					
645+00	RT	98	R7-1D	24x30	1	1	5.000		1			No Parking Any Time - Double Arrow					
648+15	RT	99	R7-1L	24x30	1	1	5.000		1			No Parking Any Time -LEFT Arrow					
659+20	RT	104	R1-1	30x30	1	1	5.180		1			Stop				Carpenter Rd	
662+60	RT	106	R3-9B	24x36	1	1	6.000		1			Center Turn Left Turn Only Symbol					
666+50	RT	110	D1-2	102x30			21.250		2			Two Destinations (Arrows)				<- Lake Ellwood Rd / Carpenter Rd ->	
	RT	109	D1-2		1	2						Two Destinations				Carpenter Rd / Lake Elwood Rd	
678+00	RT	112	R2-1	24x30	1	1	5.000		1			Speed Limit __ MPH				55	
679+00	LT	113	W14-3	48x36	1	1		6.000	1			No Passing Zone					
719+45	RT	118	R1-1	30x30	1	1	5.180		1			Stop				N Lake Rd S	
726+50	RT	119	D1-1	108x15	1	2	11.250		1			One Destination (Arrow)				North Lake Rd S ->	
731+25	LT	120	W14-3	48x36	1	1		6.000	1			No Passing Zone					

3

	638.2602	638.3000	637.2210	637.2230	634.0616	634.0618
	REMOVING	REMOVING	SIGNS	SIGNS	POSTS WOOD	POSTS WOOD
	SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6-INCH	4X6-INCH
	TYPE II	SUPPORTS	REFLECTIVE H	REFLECTIVE F	X 16-FT	X 18-FT
	EACH	EACH	S.F.	S.F.	EACH	EACH
TOTAL	134	153	818.120	152.000	127	28

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

PAVEMENT MARKING

		646.0106 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	646.0406 PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW)	646.0842.S PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (WHITE)	646.0844.S PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH (WHITE)	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2	649.0403 TEMPORARY PAVEMENT MARKING EPOXY 4-INCH	648.0100 LOCATING NO-PASSING ZONES
STATION	LOCATION	(LF)	(LF)	(LF)	(LF)	(EACH)	(LF)	(MI)
315+25 - 823+47	USH 2	40560	78300	101830	450	34	64980	9.2
TOTAL		40,560	78,300	101,830	450	34	64,980	9.2

		642.5201 FIELD OFFICE TYPE C (EACH)
STATION	LOCATION	
315+25 - 823+47	USH 2	1.00
TOTAL		1.00

TRAFFIC CONTROL

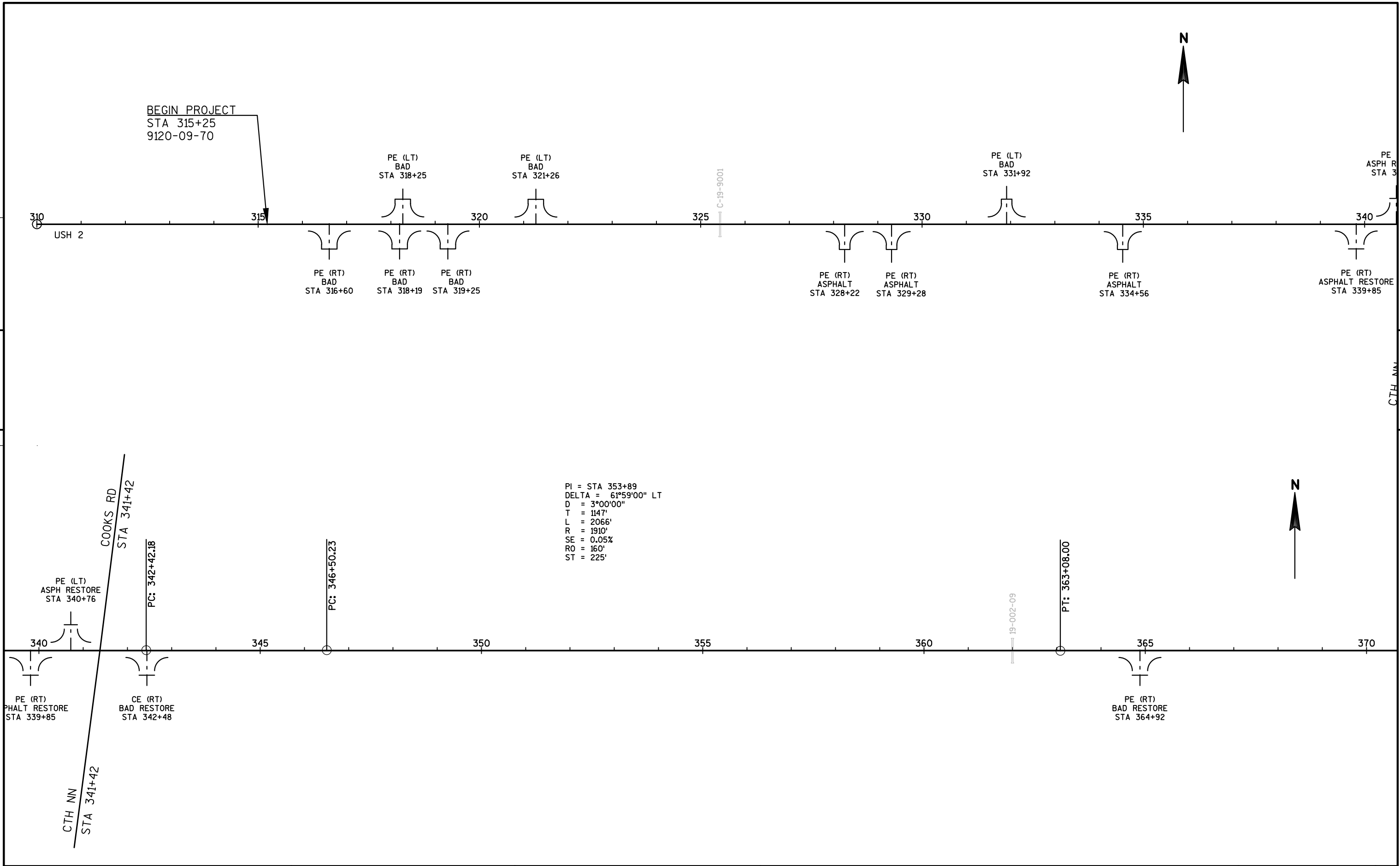
		643.0100 TRAFFIC CONTROL PROJECT	643.0300 TRAFFIC CONTROL DRUMS	643.0900 TRAFFIC CONTROL SIGNS
STATION	LOCATION	(EACH)	(DAYS)	(DAYS)
315+25 - 823+47	USH 2	1	1000	1000
TOTAL		1	1,000	1,000

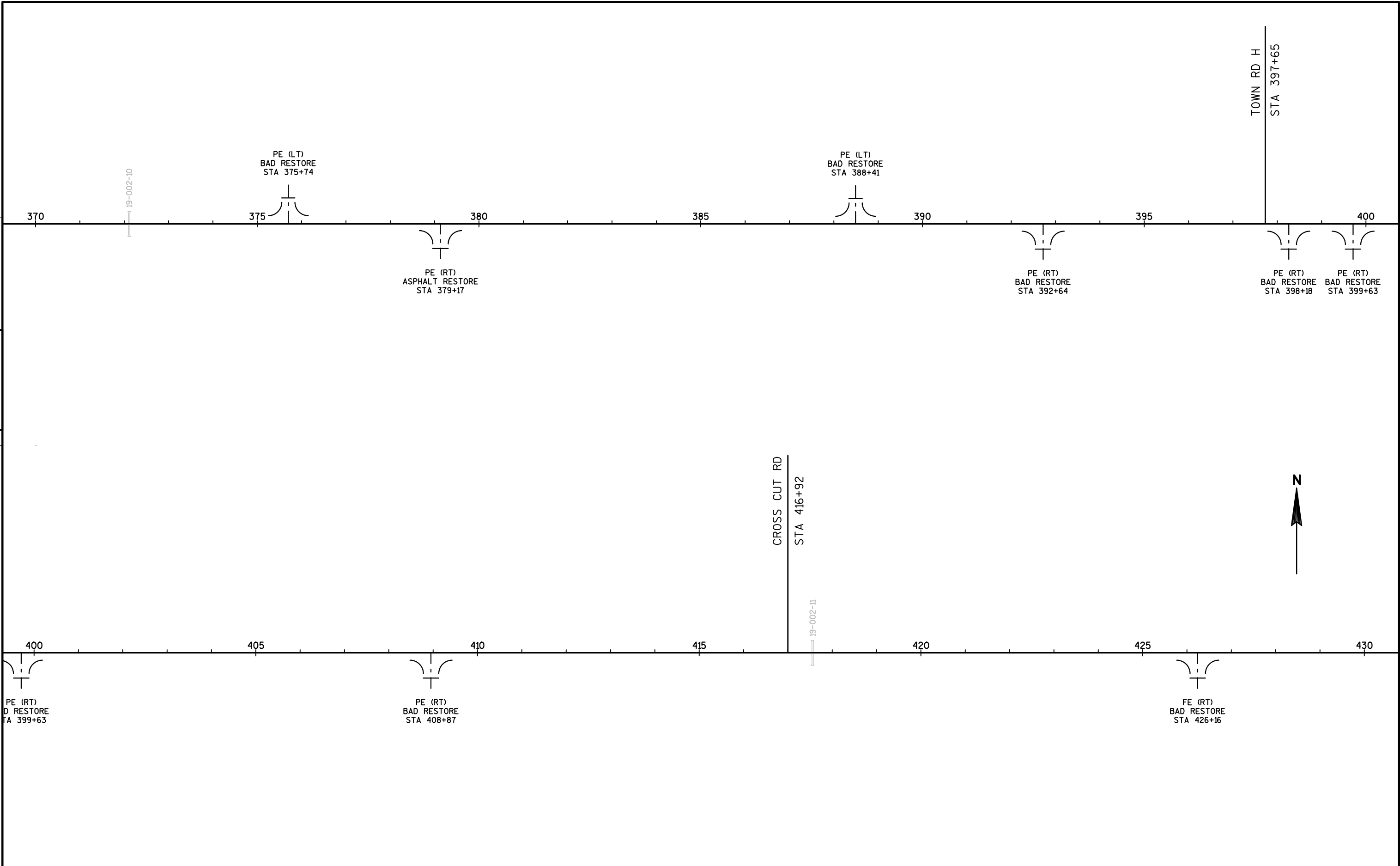
		650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE
STATION	LOCATION	(LF)
815+25 - 823+47	USH 2	48210
TOTAL		48,210

		SPV.0060.01 CONCRETE CULVERT REPAIR (EACH)
STATION	LOCATION	
807+10 LT	USH 2	1
TOTAL		1

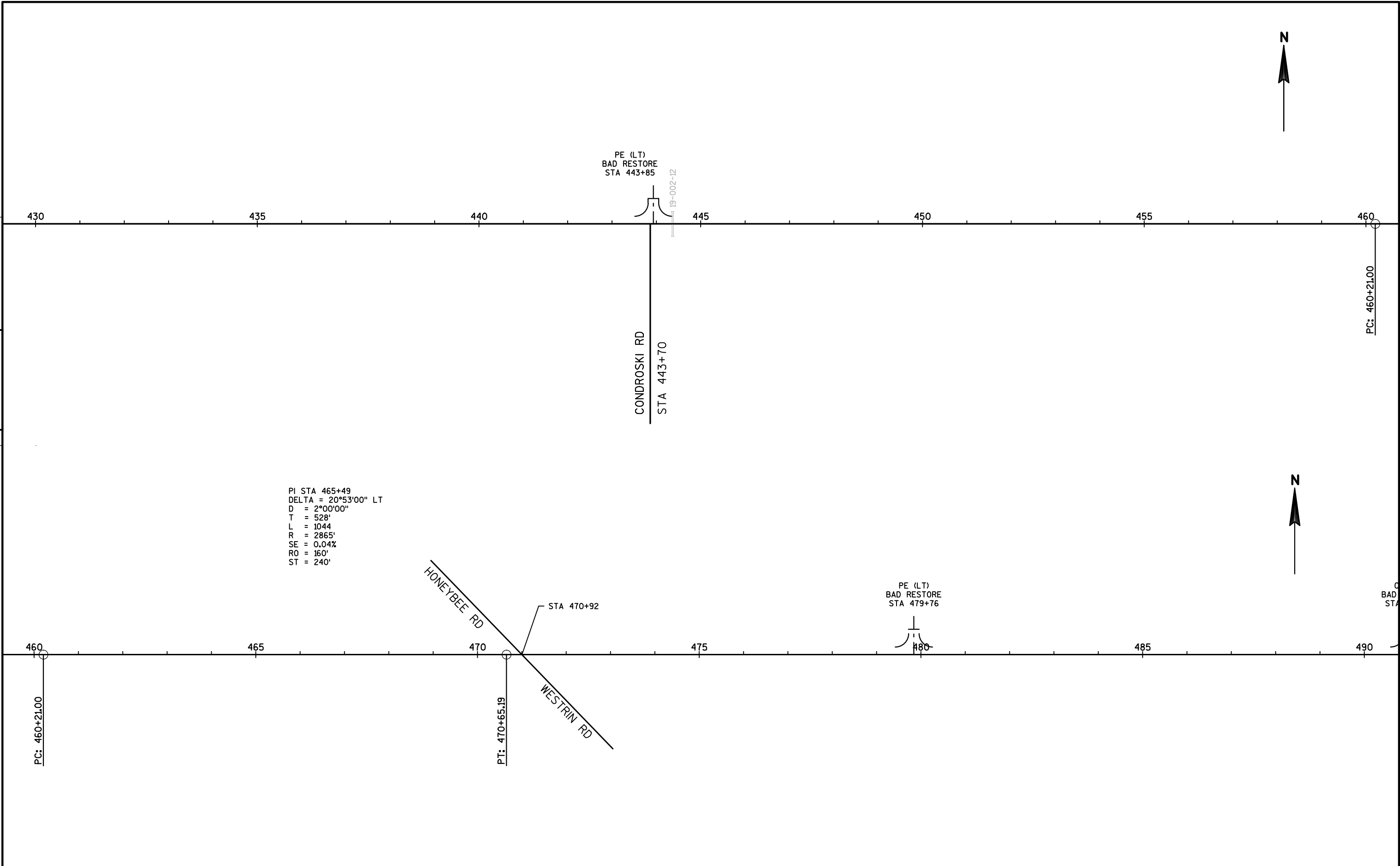
SALT SHED

	SPV.0105.01	SPV.0105.02	SPV.0105.03
	SALT STORAGE	SALT STORAGE	SALT STORAGE
	FACILITY	FACILITY	FACILITY
	BUILDING	ELECTRICAL	SITE
			IMPROVEMENTS
LOCATION	(LS)	(LS)	(LS)
CTH N	1	1	1
TOTAL	1	1	1

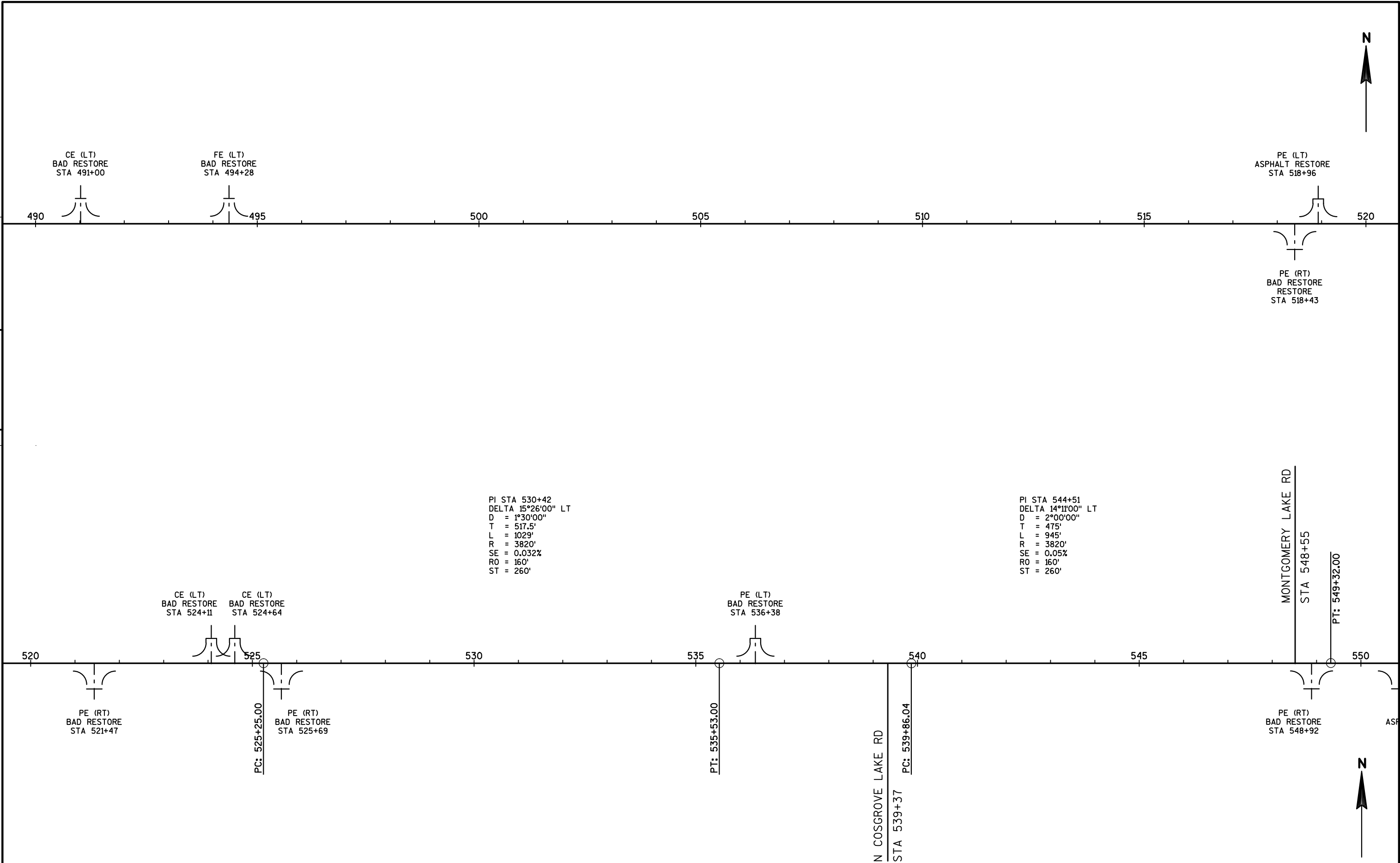


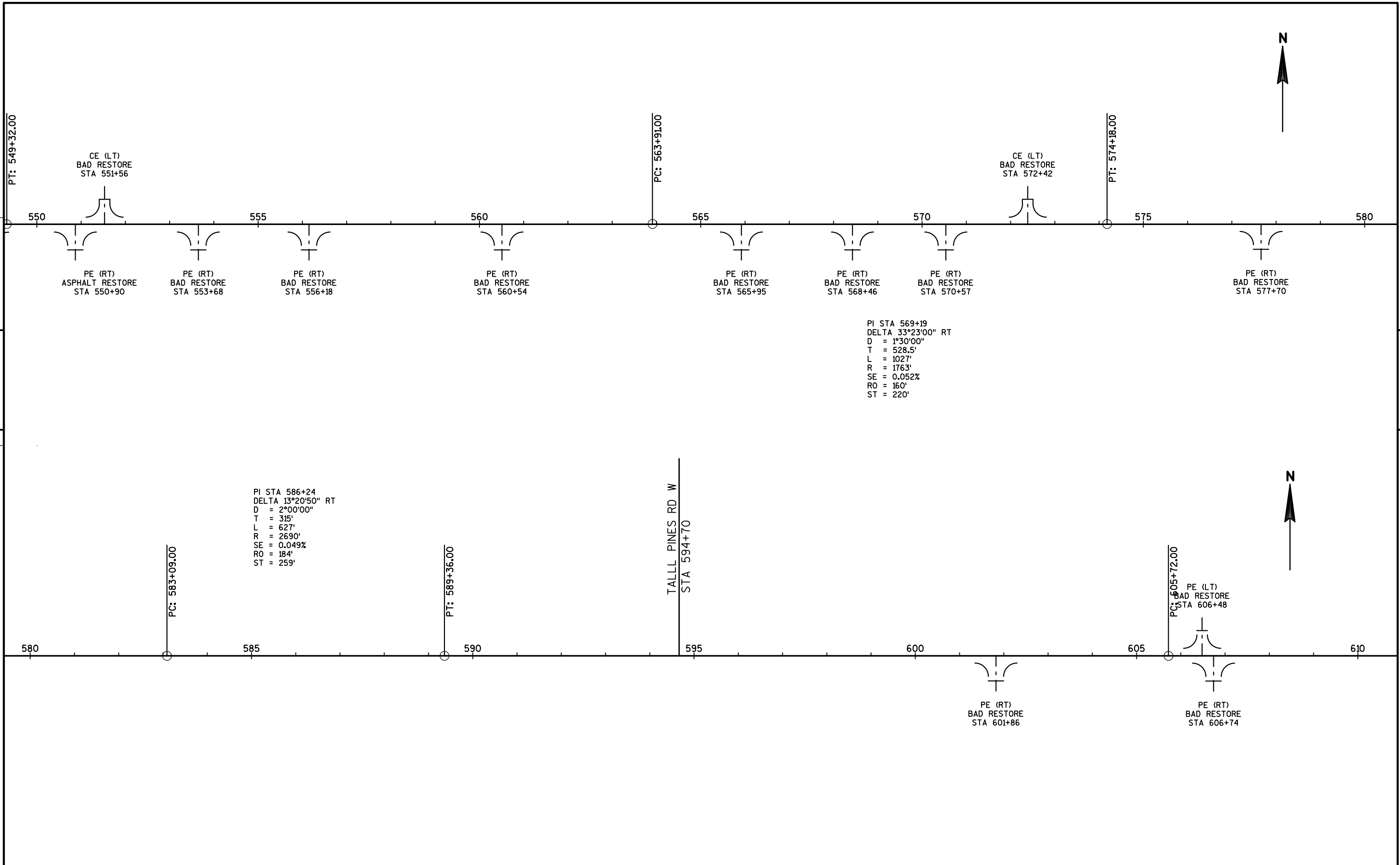


PROJECT NO: 9120-09-70	HWY: USH 2	COUNTY: FLORENCE	LINE DIAGRAM	SHEET	E
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PROJECT NO:9120-09-70	HWY:USH 2	COUNTY:FLORENCE	LINE DIAGRAM	SHEET	E
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PI STA 611+09
DELTA 36°16'58.5"
D = 3°00'00"
T = 538'
L 2066'
R = 1640'
SE = 0.059%
RO = 184'
ST = 246'

PT: 616+11.00

TALL PINES RD
STA 622+40

PC: 625+99.00

CE (LT) ASPHALT RESTORE STA 626+48
CE (LT) ASPHALT RESTORE STA 628+07

CE (LT) ASPHALT RESTORE STA 633+18
CE (LT) ASPHALT RESTORE STA 634+27

PT: 637+51.00

PI STA 632+00
DELTA 40°13'54" LT
D = 3°30'00"
T = 601'
L = 1152'
R = 1640'
SE = 0.059%
RO = 184'
ST = 246'

PI STA 660+94
DELTA 37°46'48" RT
D = 2°30'00"
T = 1684'
L = 3245'
R = 4921'
SE = 0.031%
RO = 184'
ST = 302'

CARPENTER RD
STA 659+40

LAKE ELLWOOD RD
STA 659+40

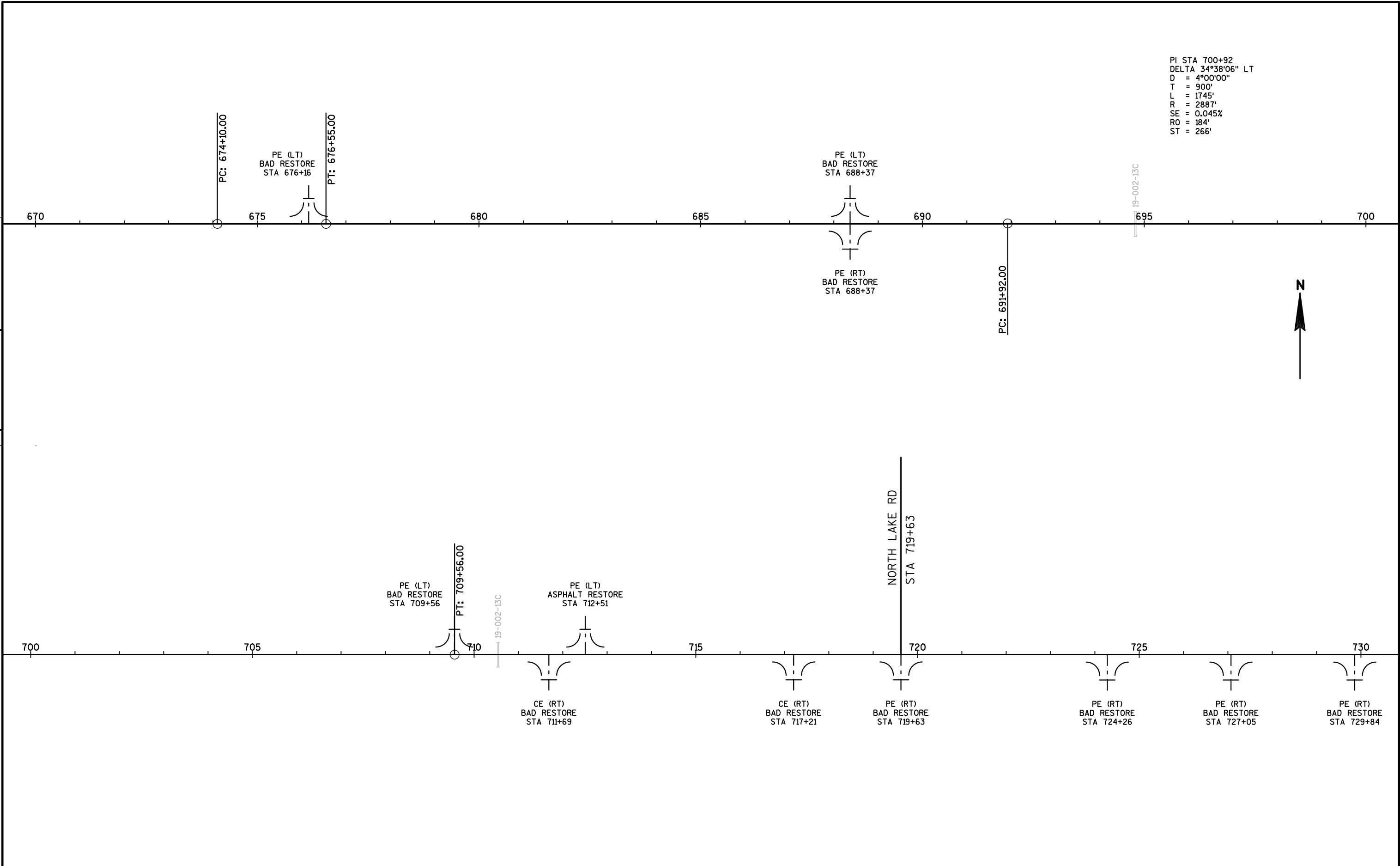
PE (RT)
BAD RESTORE
STA 646+21

PE (RT)
BAD RESTORE
STA 617+43



5

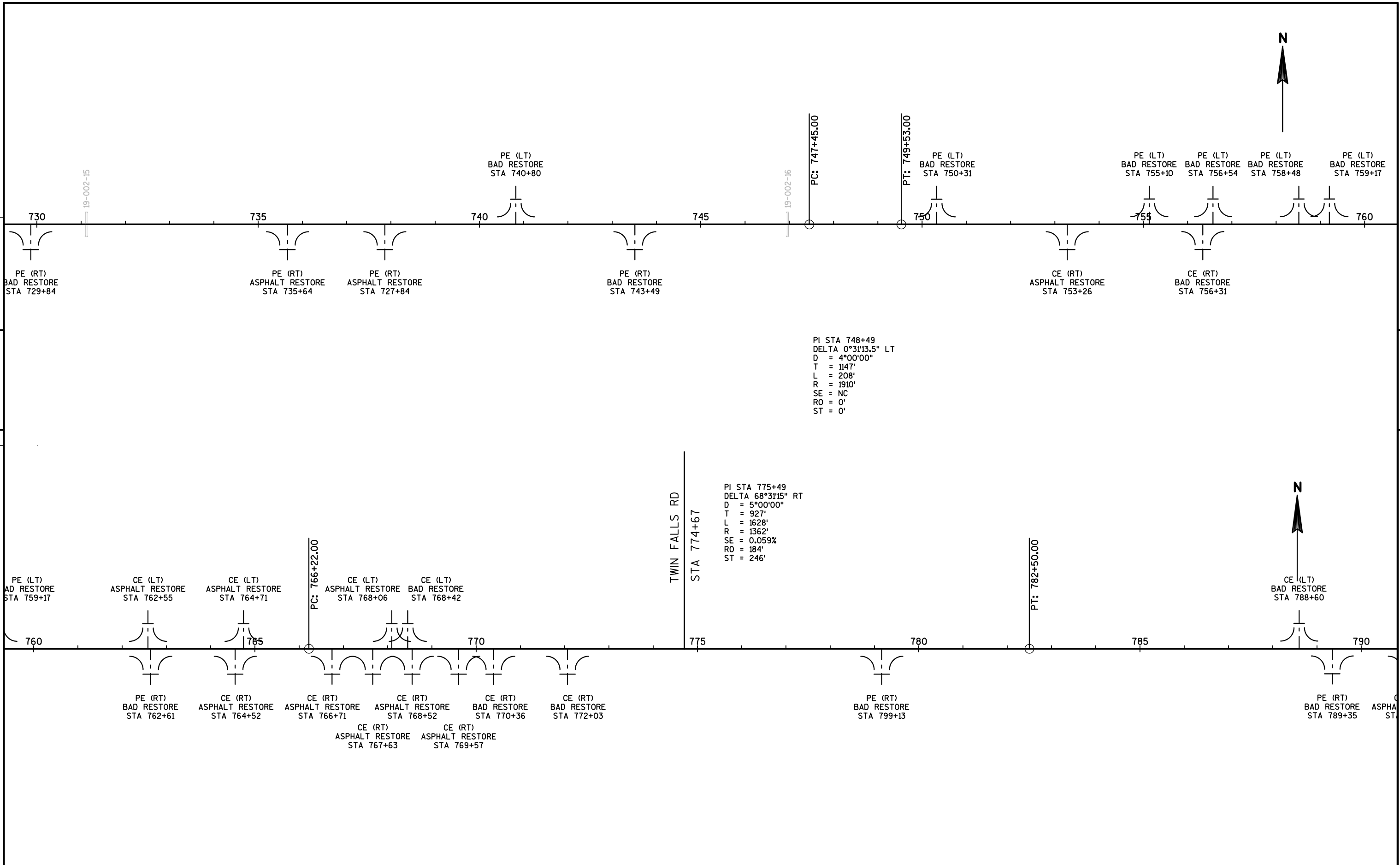
5

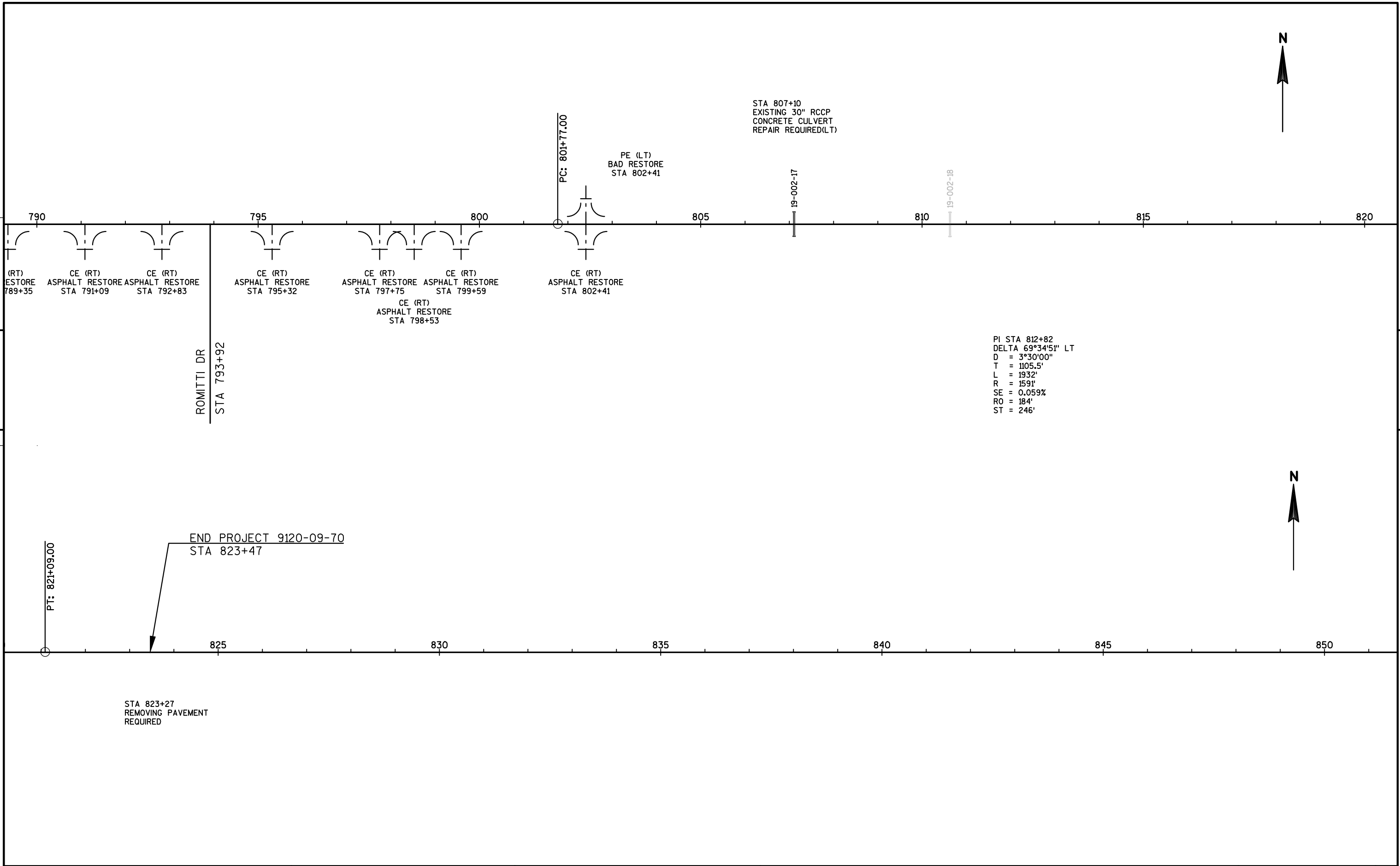


PI STA 700+92
DELTA 34°38'06" LT
D = 4°00'00"
T = 900'
L = 1745'
R = 2887'
SE = 0.045%
RO = 184'
ST = 266'

5

5





Standard Detail Drawing List

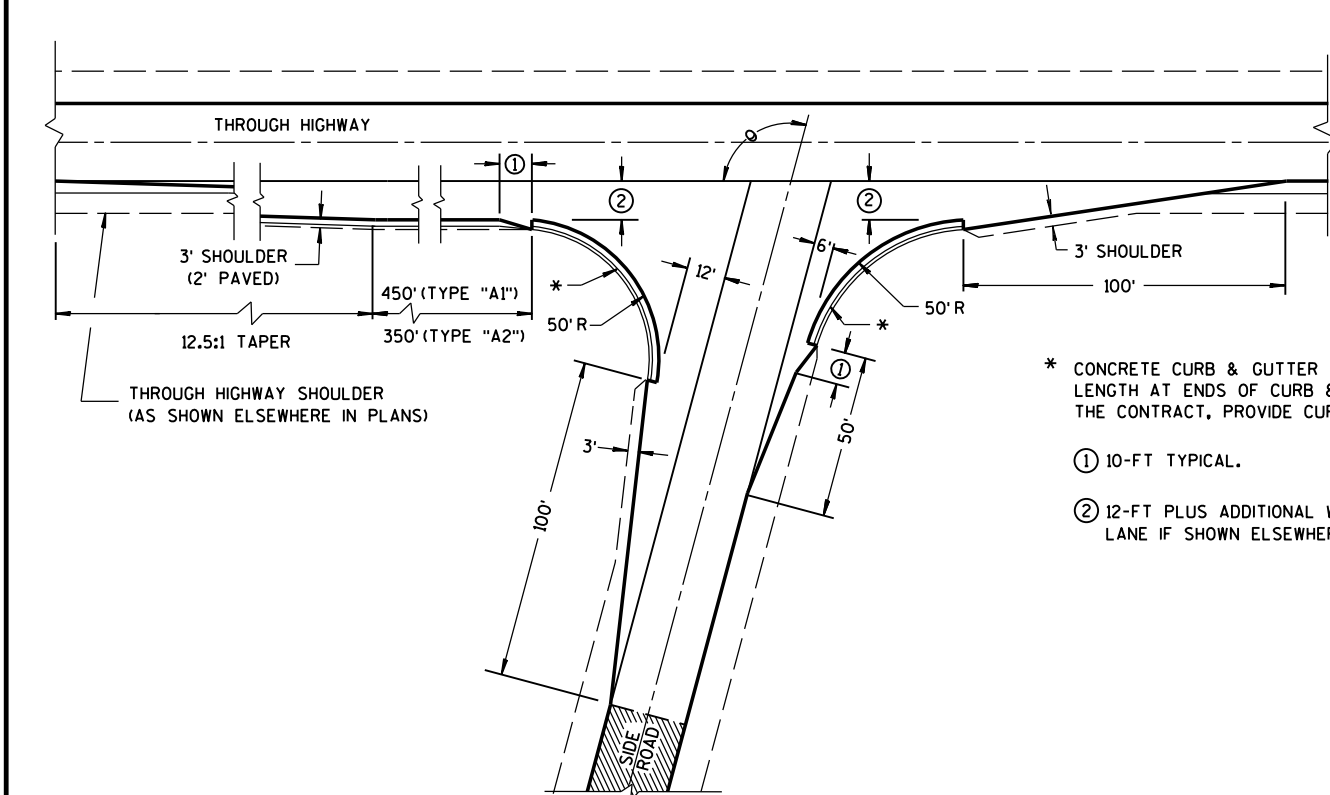
08E09-06	SILT FENCE
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-13C	PAVEMENT MARKING ARROWS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)



- 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.



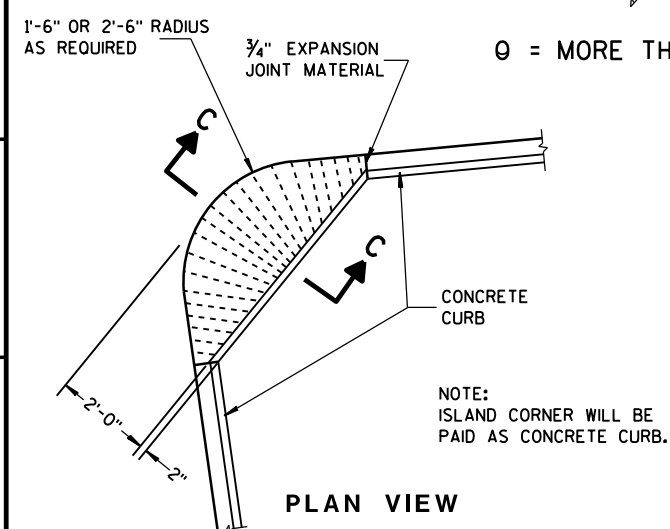
SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>4-29-05</u> DATE	<u>/S/ Beth Cannestra</u> CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



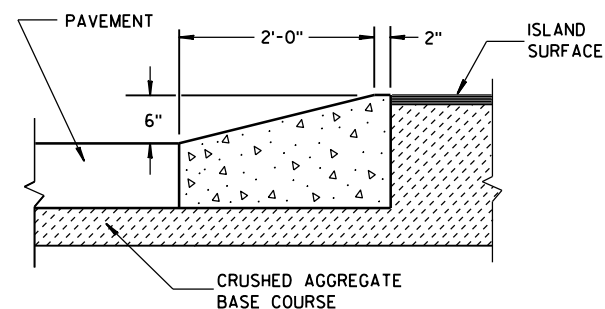
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.



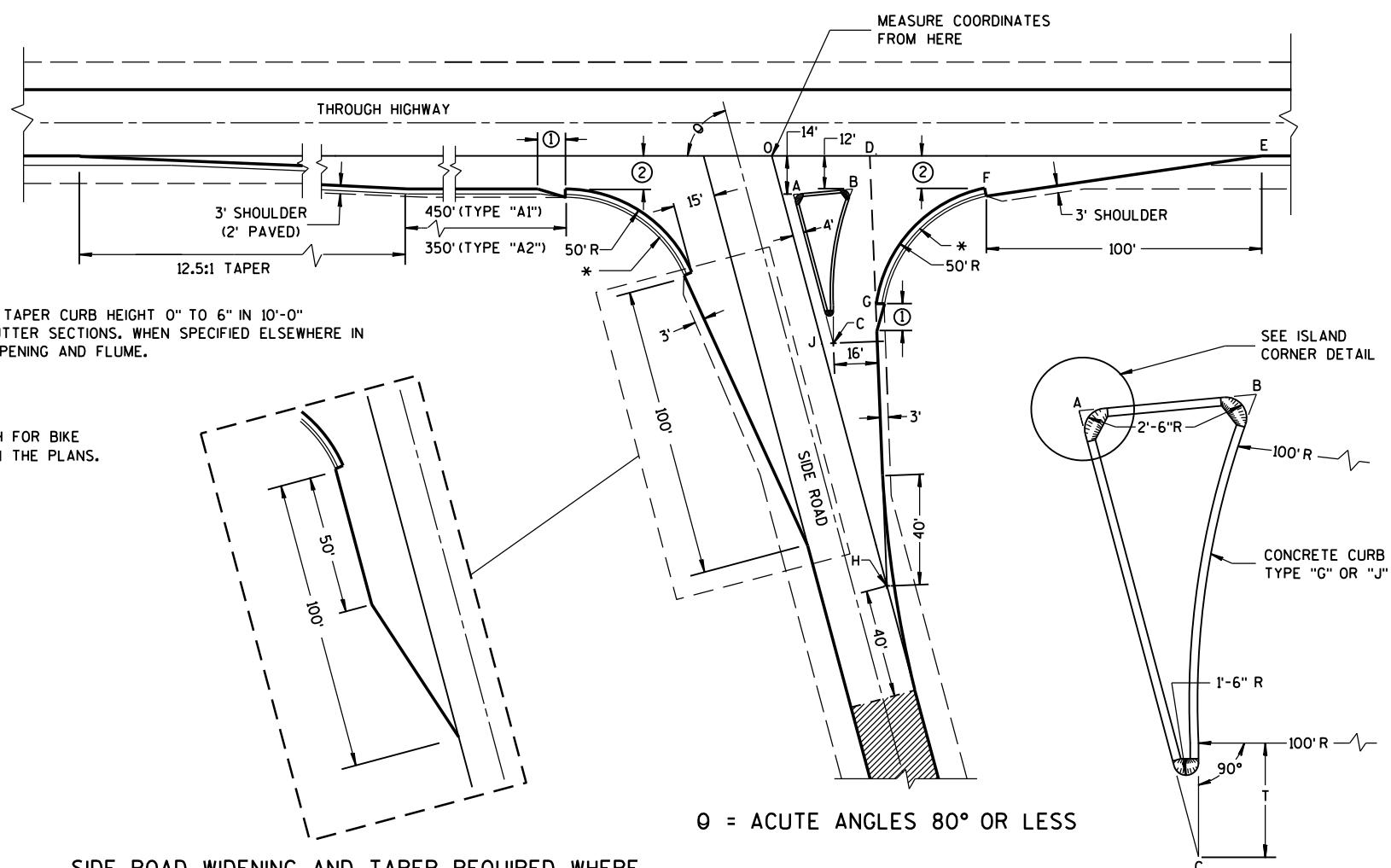
PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)



SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
 θ = ACUTE ANGLES 70° OR LESS

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES

(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O")								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7	44.9	46.4	41.9	205.0	104.6	64.0	85.0	32.3	67.4	4.9	85.9	169.9
	-14.0	-12.0	-72.4	0.0	0.0	-12.0	-75.5	-147.1					
65	10.9	39.0	37.8	39.4	196.1	95.7	54.1	70.5	28.2	63.6	8.5	80.9	166.9
	-14.0	-12.0	-71.6	0.0	0.0	-12.0	-71.5	-151.3					
70	9.4	33.9	29.8	37.4	188.3	87.8	45.6	56.1	24.6	59.7	11.5	76.1	164.1
	-14.0	-12.0	-70.1	0.0	0.0	-12.0	-67.5	-154.2					
75	7.9	29.3	22.3	35.7	181.2	80.7	38.2	41.8	21.5	55.8	13.8	71.4	161.4
	-14.0	-12.0	-67.9	0.0	0.0	-12.0	-63.4	-155.9					
80	6.5	25.4	15.6	34.4	174.8	74.4	31.8	27.6	18.9	52.0	15.6	66.9	158.9
	-14.0	-12.0	-65.2	0.0	0.0	-12.0	-59.3	-156.5					

TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS

AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/18/12

DATE

FHWA

/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

ENGINEER

GENERAL NOTES

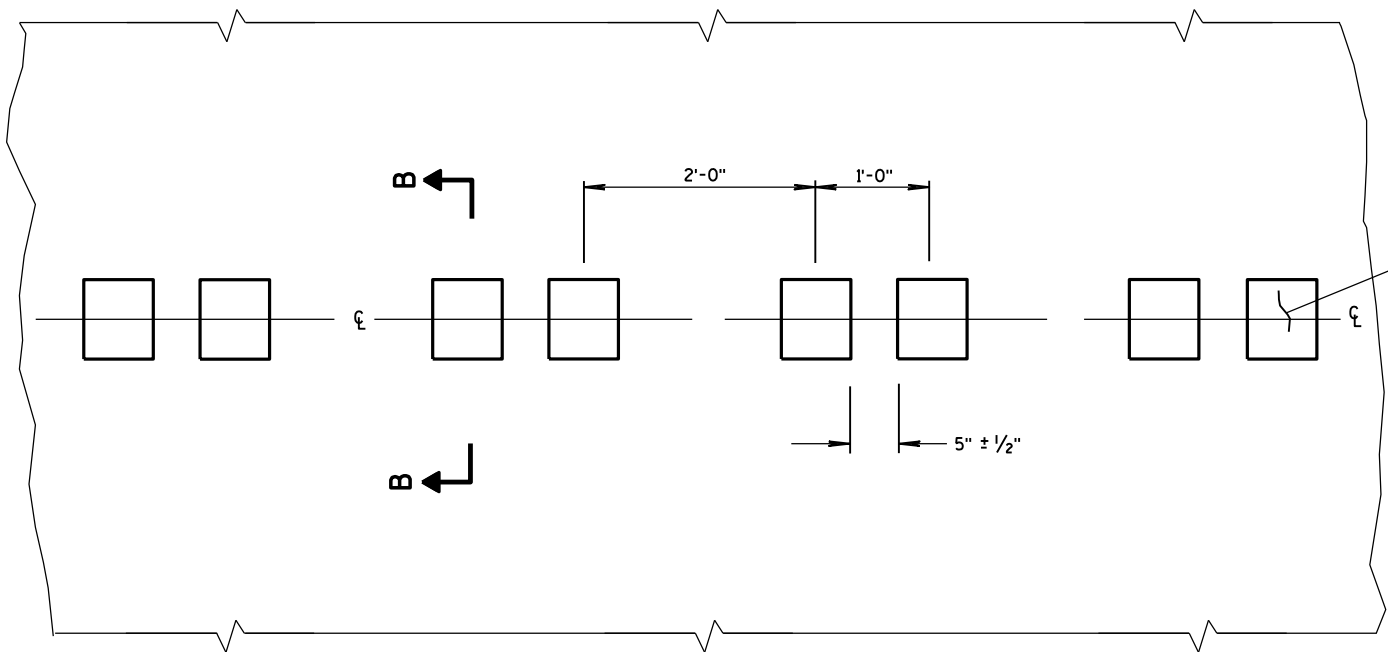
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

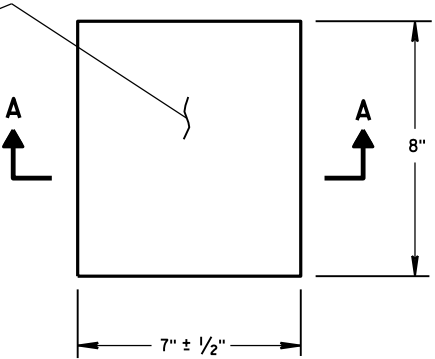
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

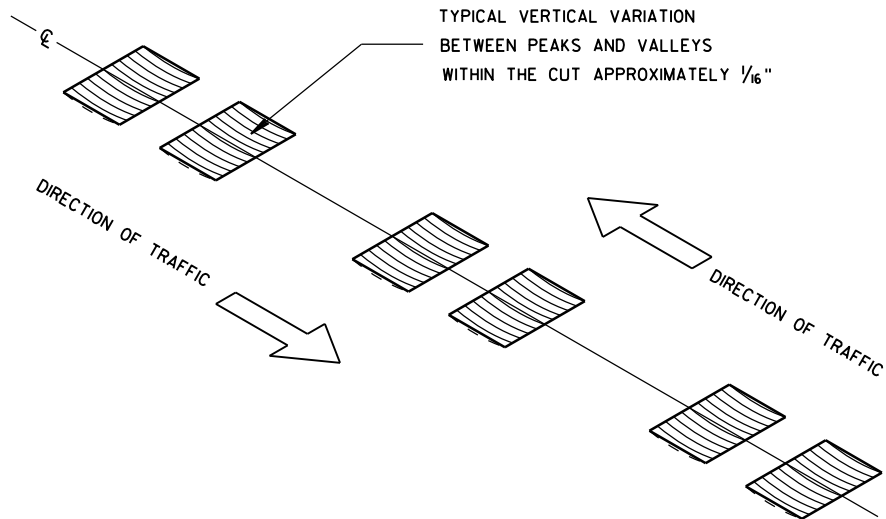
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



PLAN VIEW
CENTER LINE WITH GROOVES

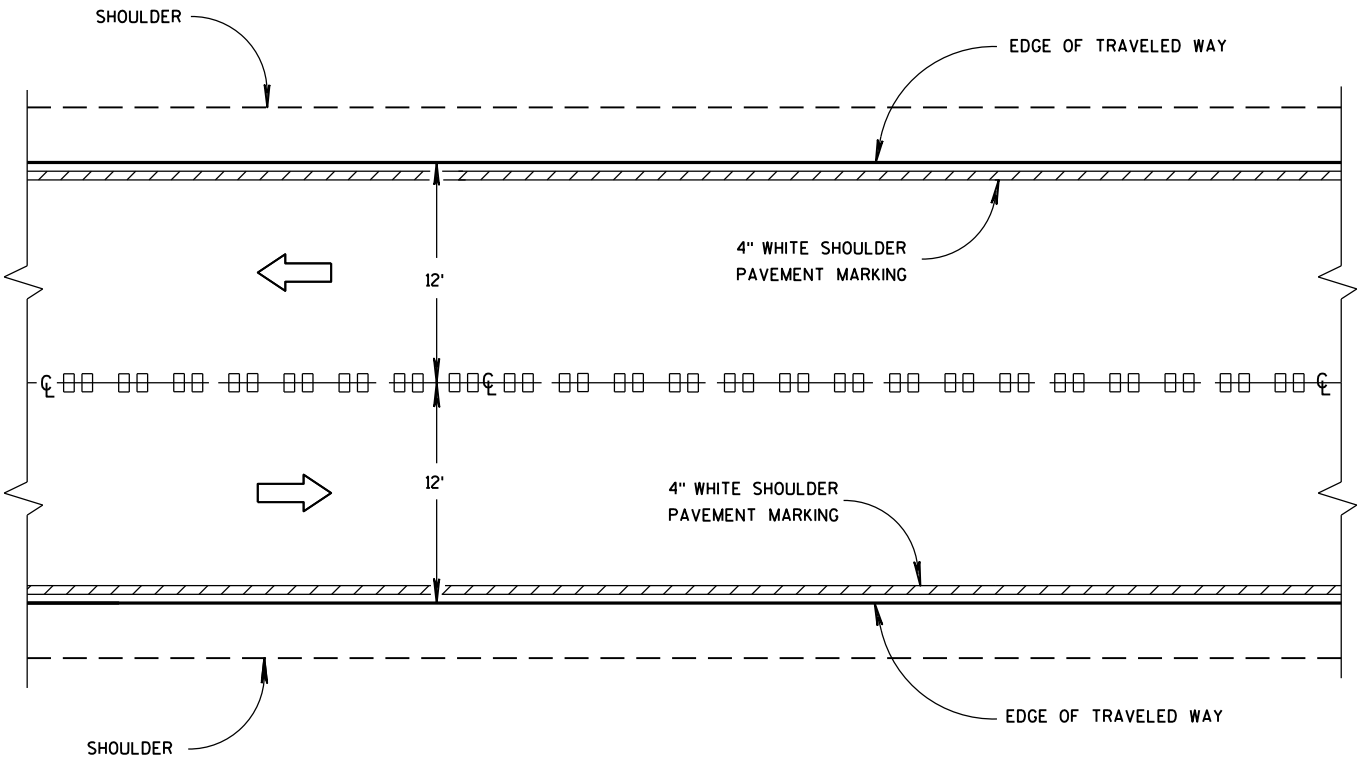


PLAN VIEW
(SINGLE GROOVE)

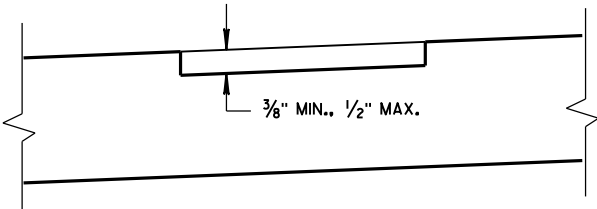


ISOMETRIC

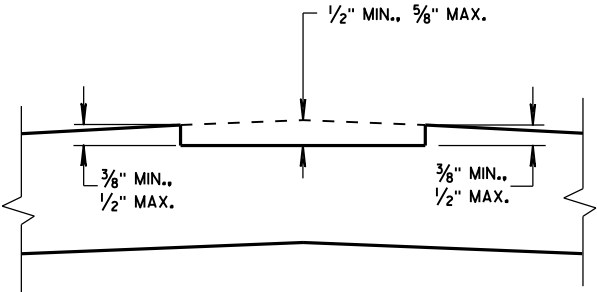
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



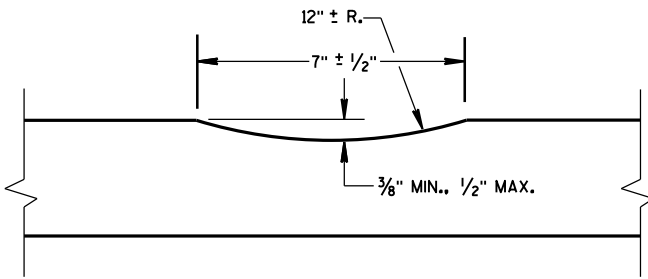
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



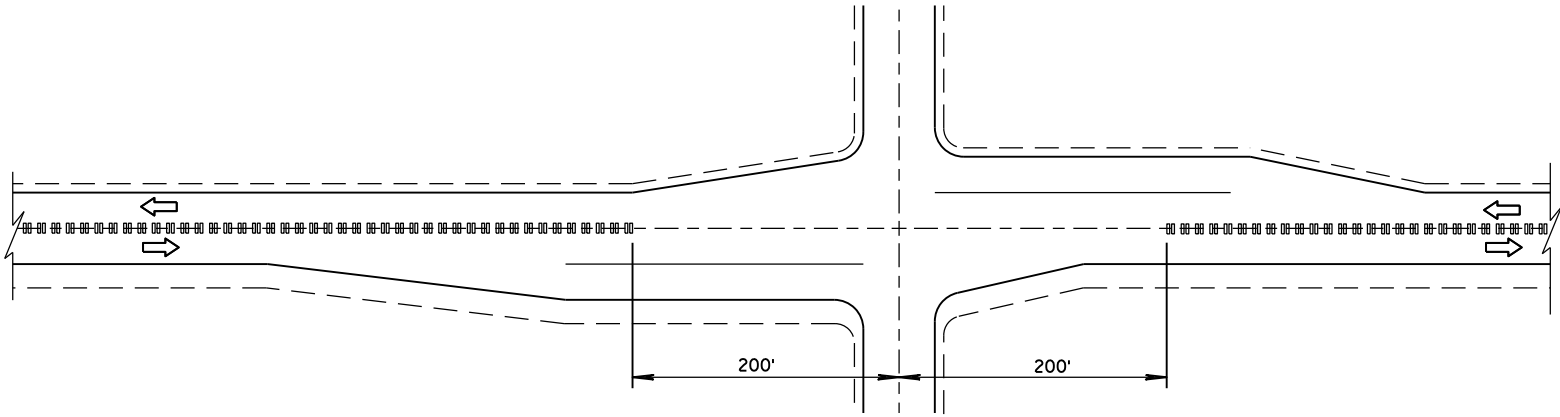
SECTION B-B
CROWNED ROADWAY



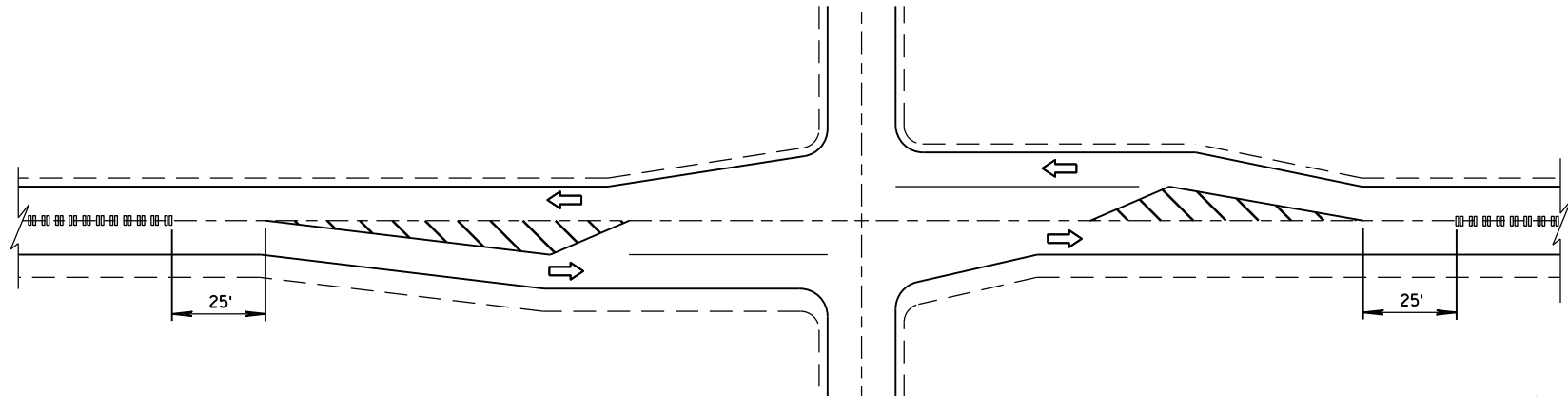
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

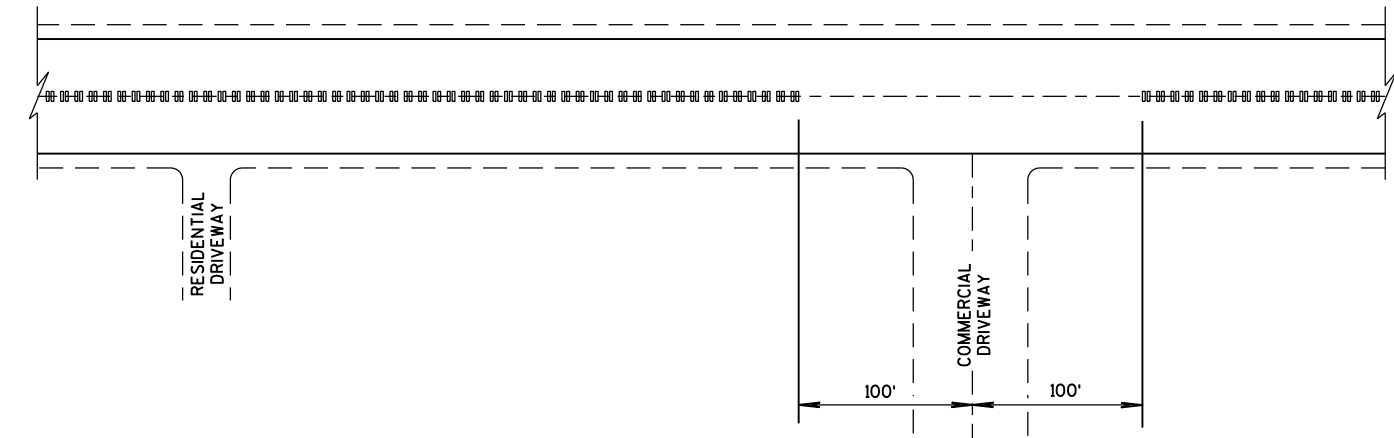
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS

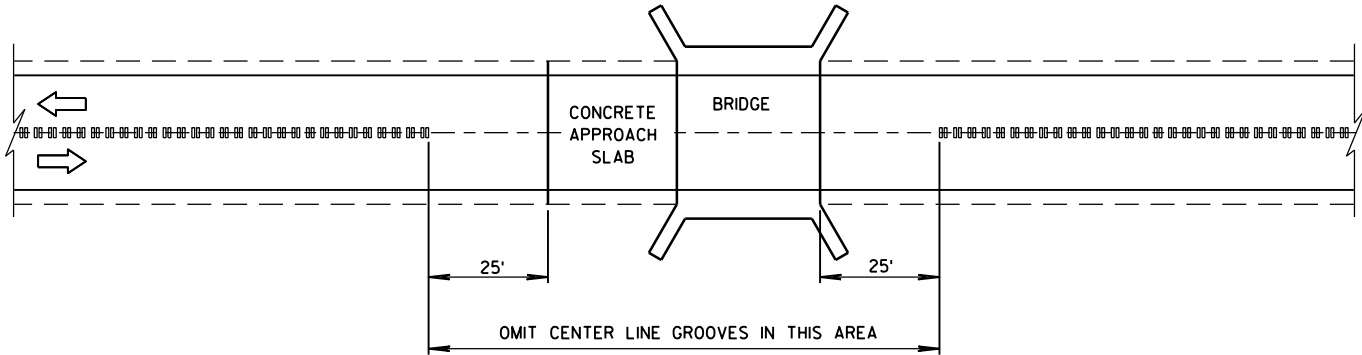


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

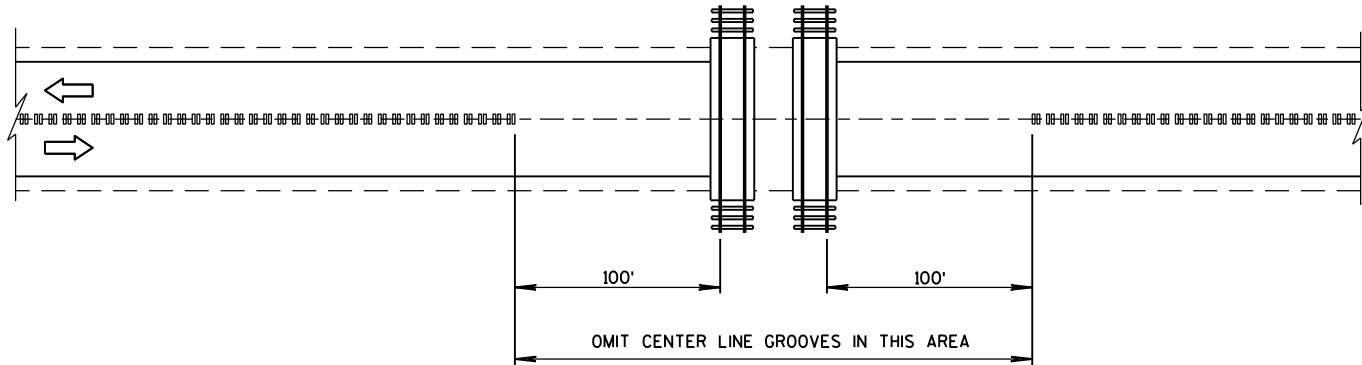


CENTER LINE GROOVES AT DRIVEWAYS^①

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

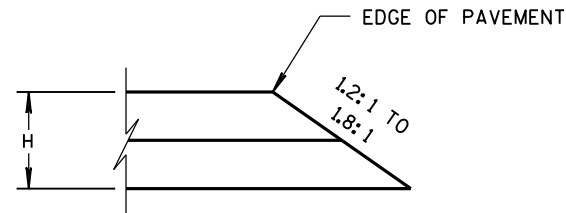


CENTER LINE GROOVES AT BRIDGES

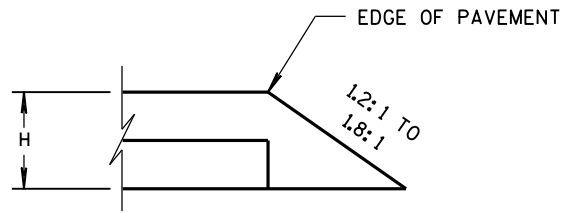


CENTER LINE GROOVES AT RAILROADS

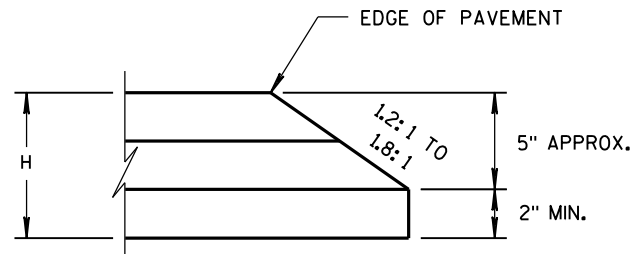
2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/15/2013 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



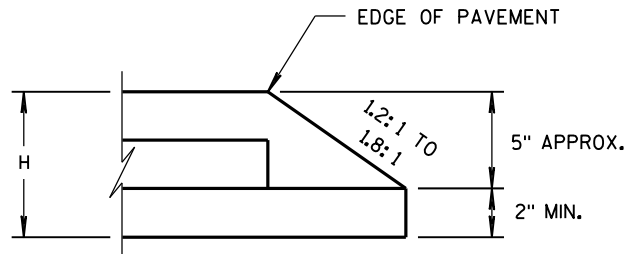
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

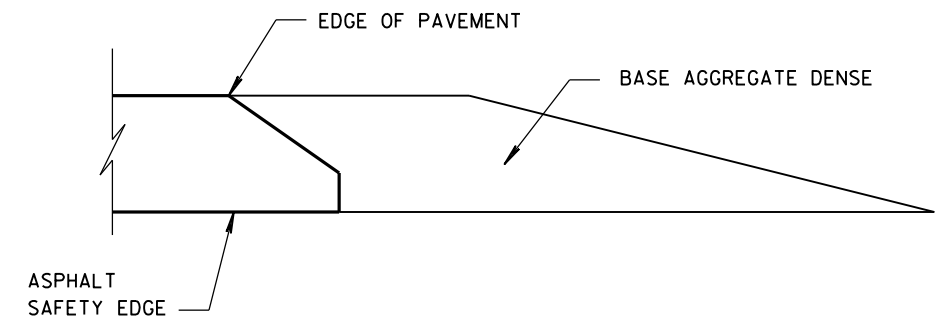


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE_{SM}

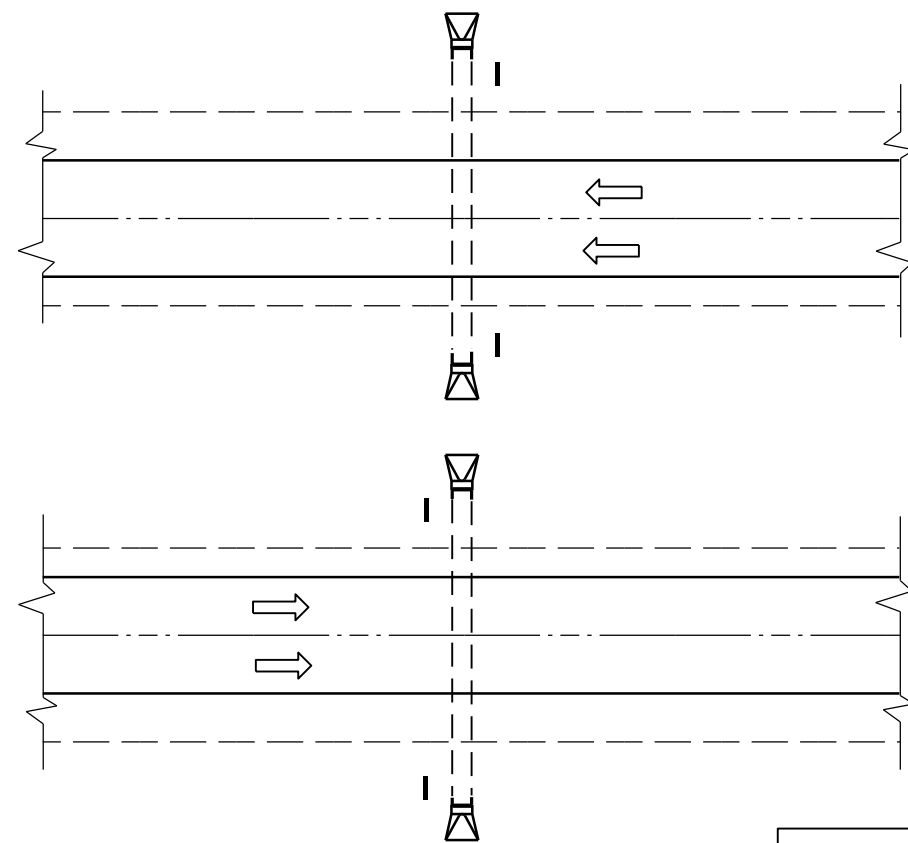
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

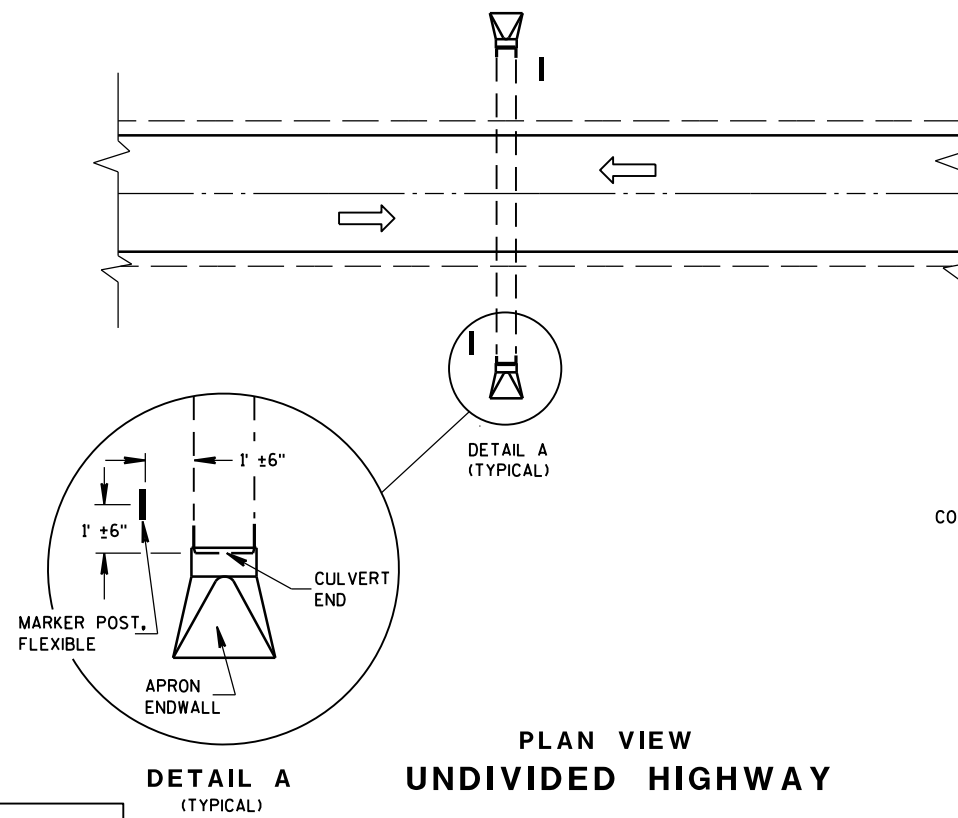
11/30/2012
DATE

FHWA

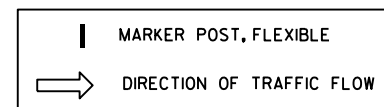
/s/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



PLAN VIEW
DIVIDED HIGHWAY



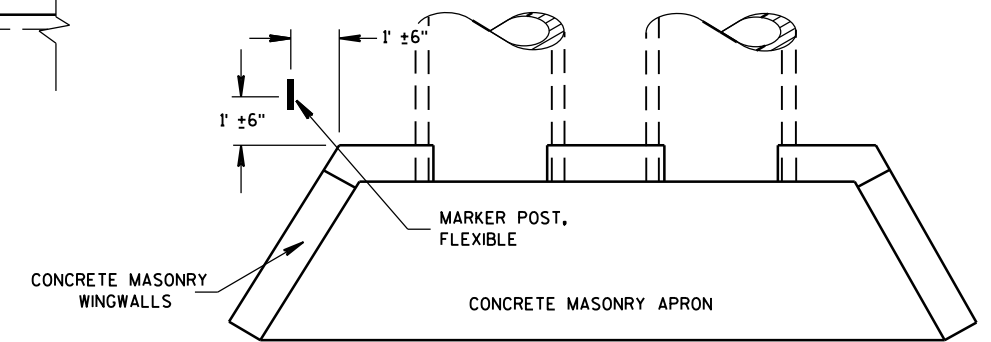
PLAN VIEW
UNDIVIDED HIGHWAY



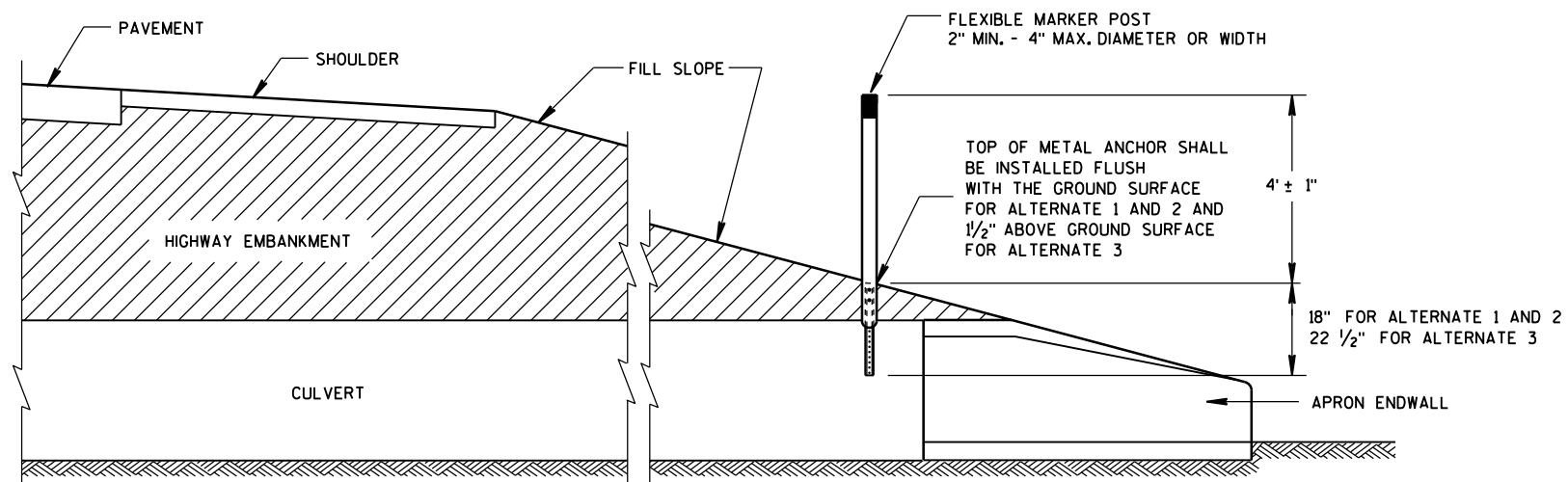
FLEXIBLE MARKER POST LOCATION

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.



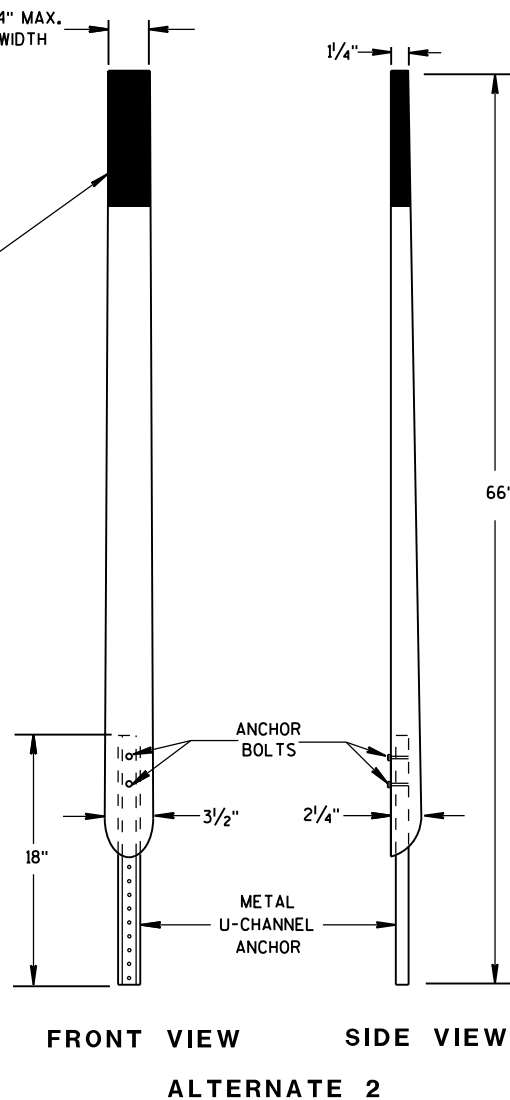
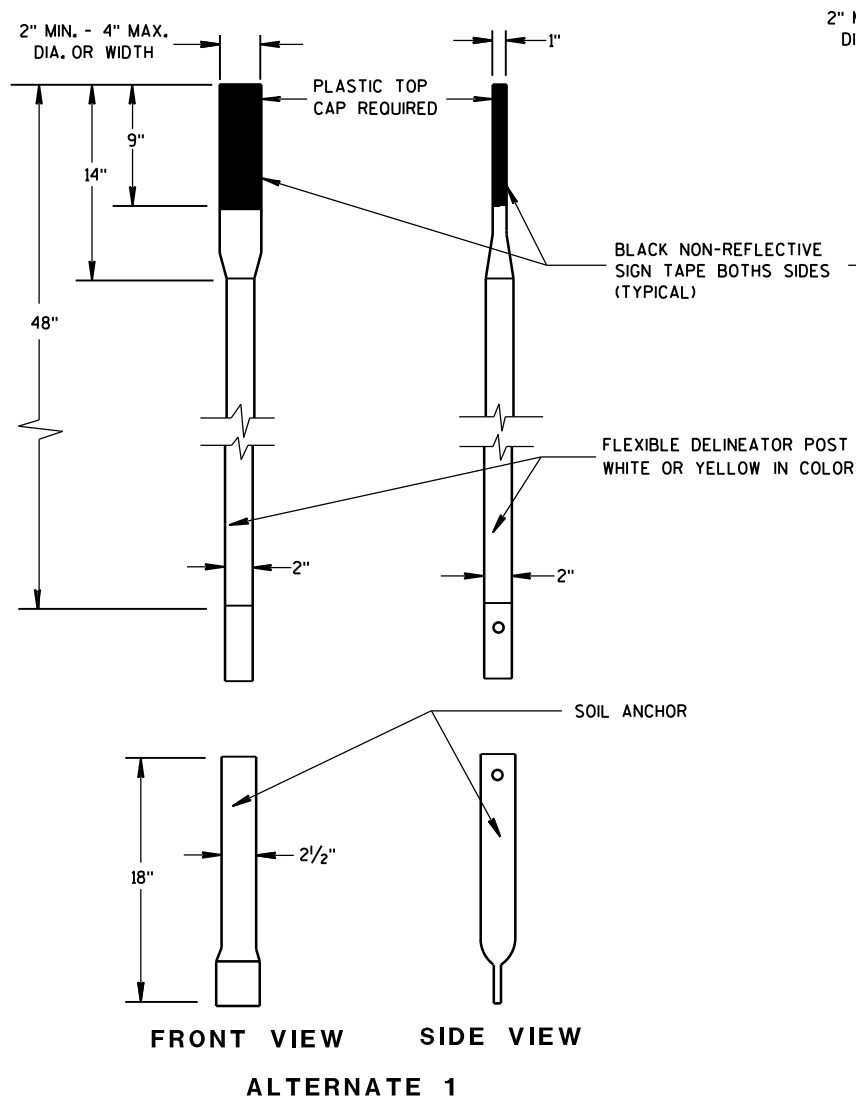
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



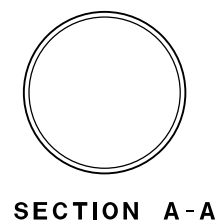
CROSS SECTION
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

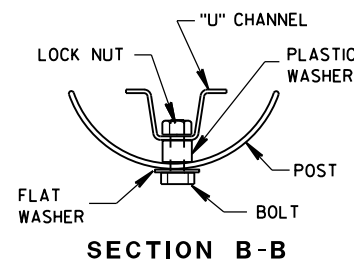
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



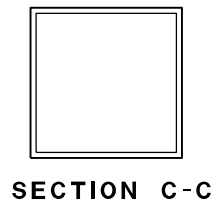
FLEXIBLE MARKER POSTS



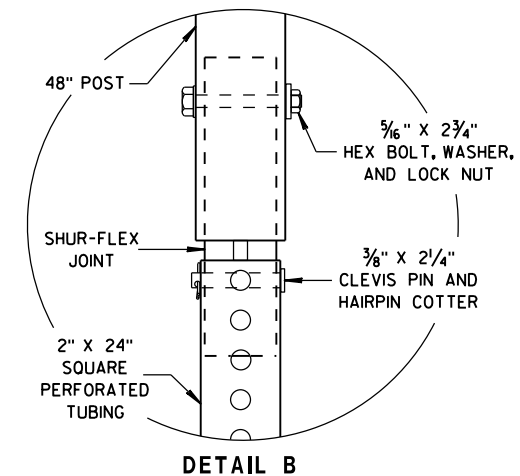
SECTION A-A



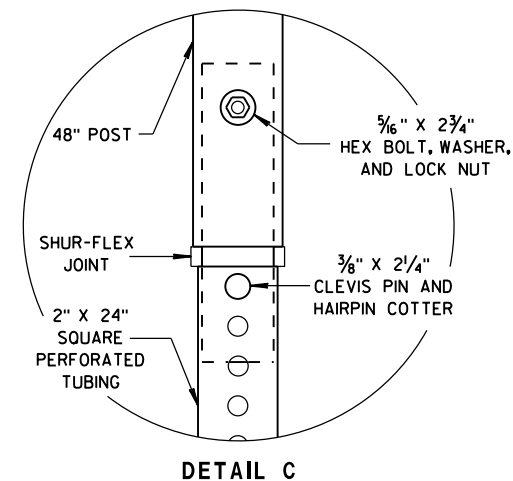
SECTION B-B



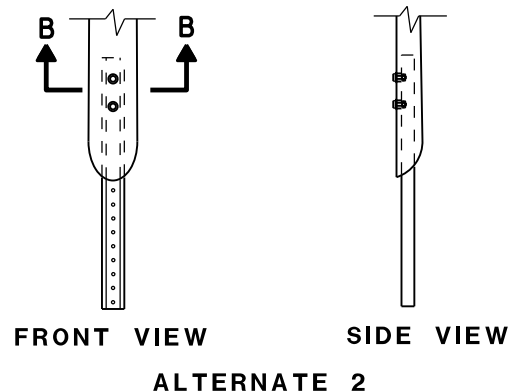
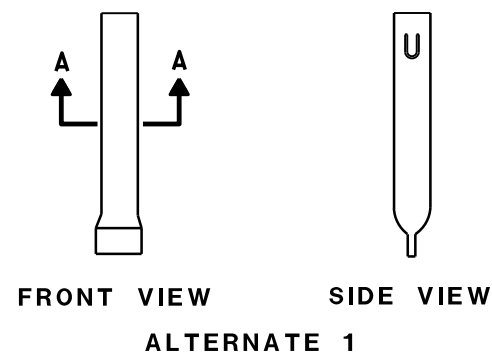
SECTION C-C



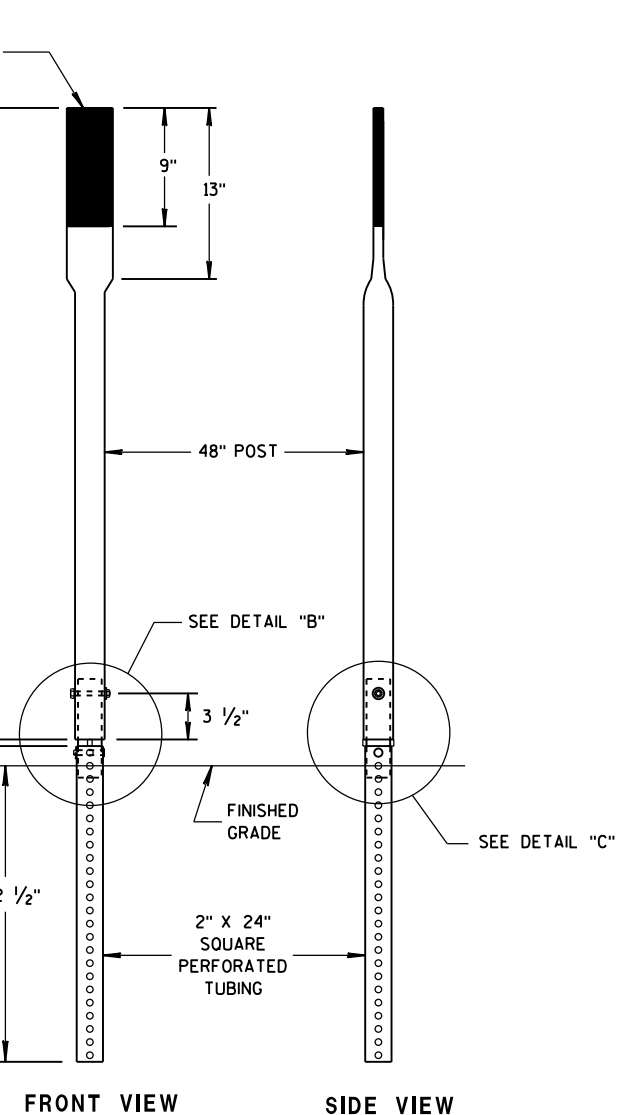
DETAIL B



DETAIL C

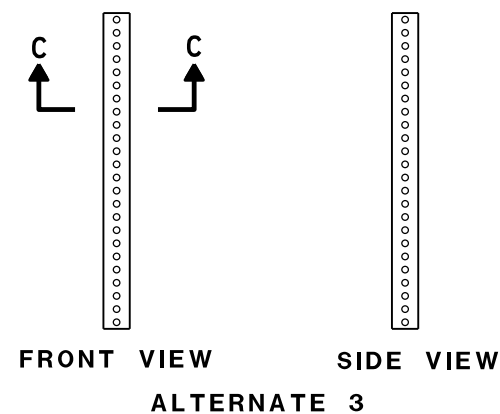


FLEXIBLE MARKER POST ANCHORS



FRONT VIEW SIDE VIEW

ALTERNATE 3



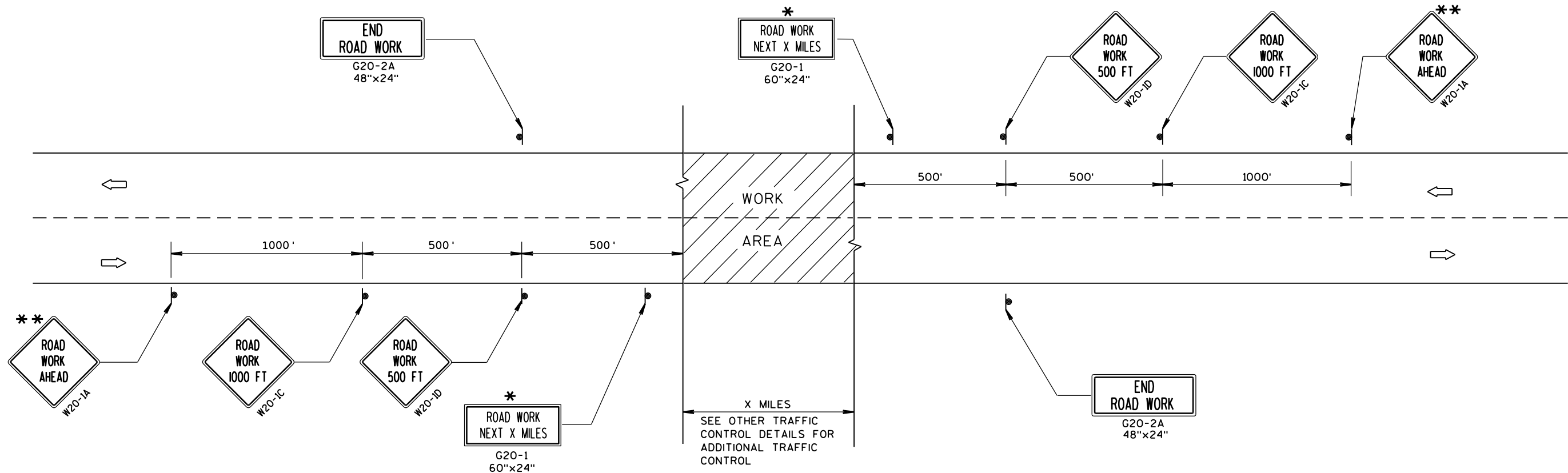
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

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

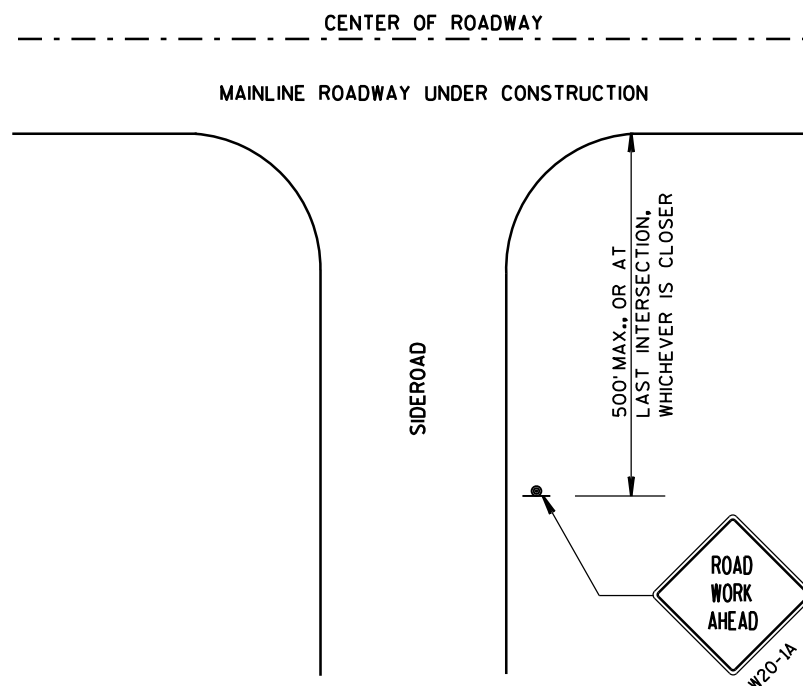
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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



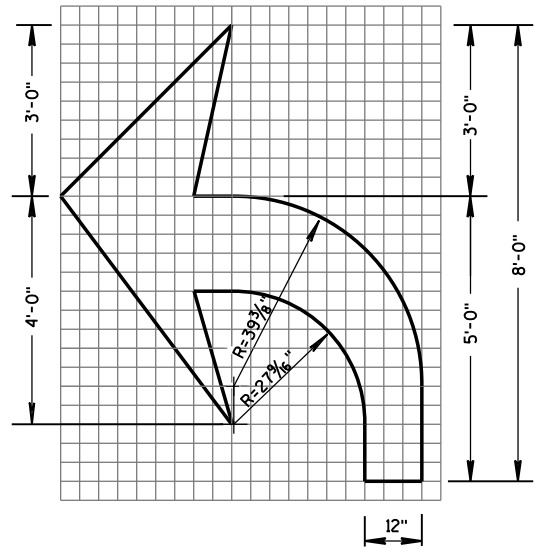
LEGEND

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

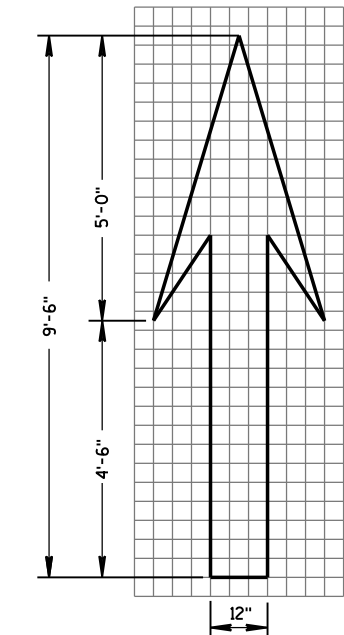
TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

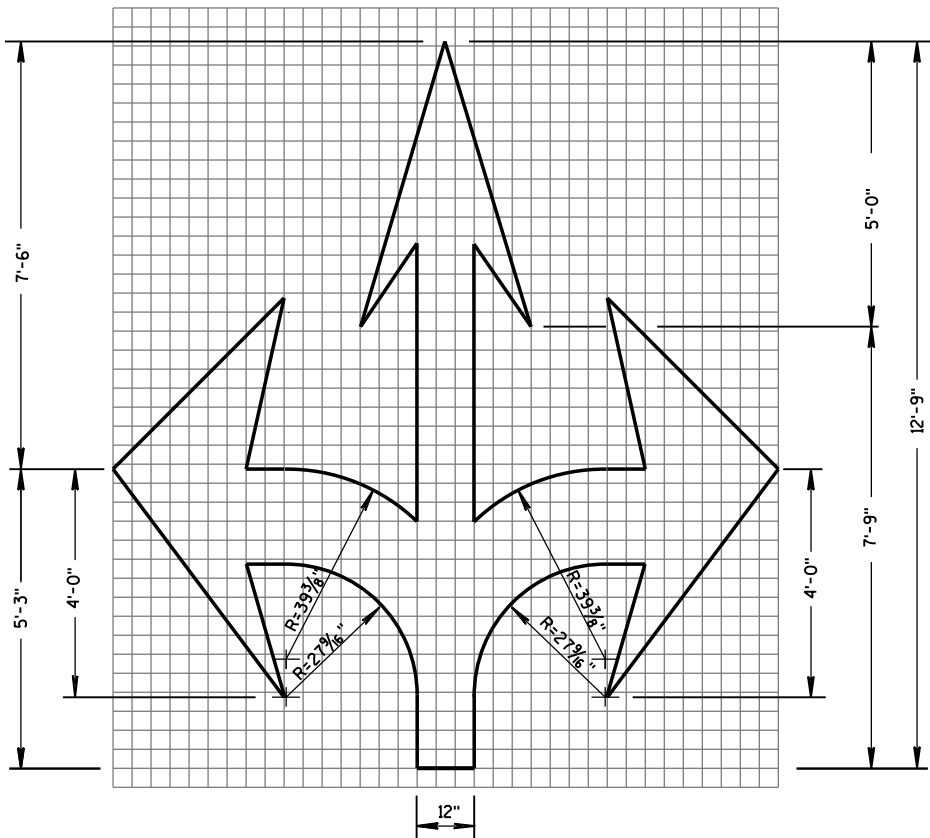
APPROVED
Sept. 2015 /S/ Peter Amokobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER



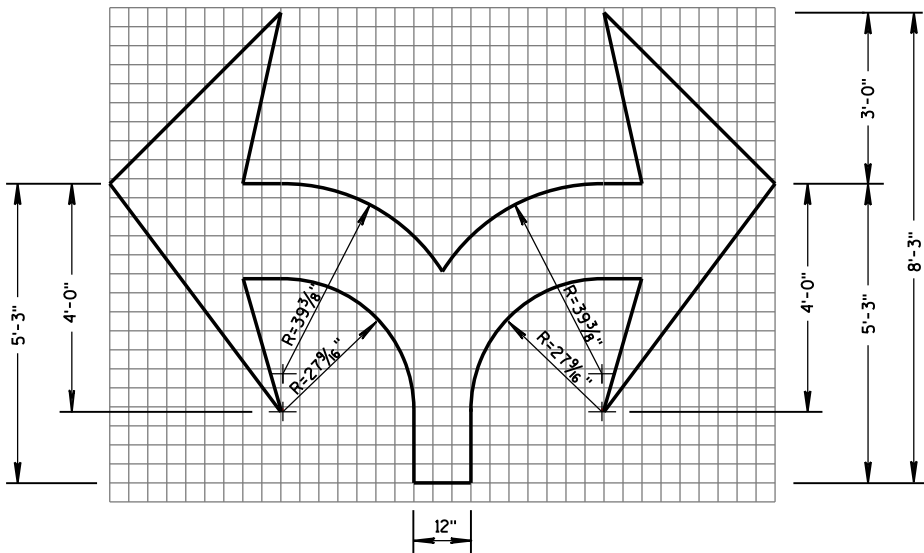
TYPE 2



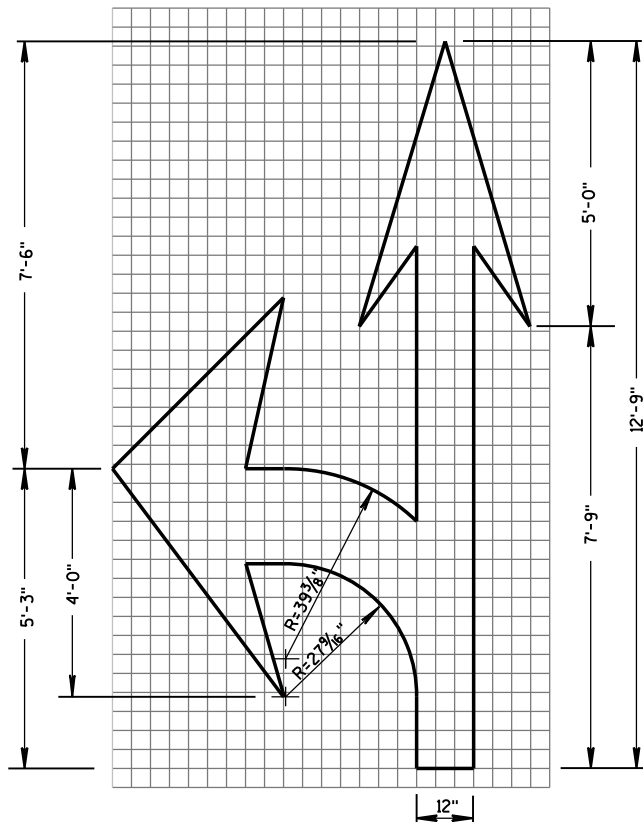
TYPE 1



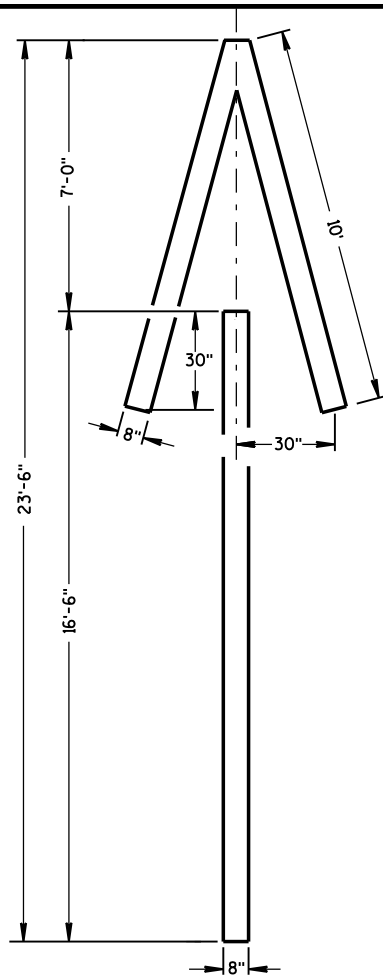
TYPE 6



TYPE 7



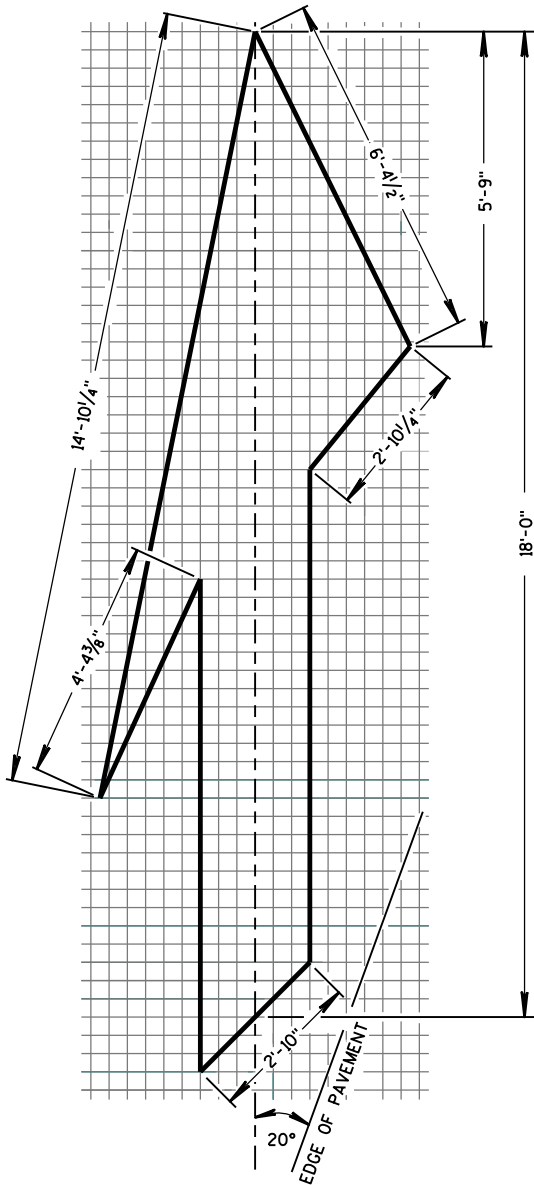
TYPE 3



TYPE 4

GENERAL NOTES

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

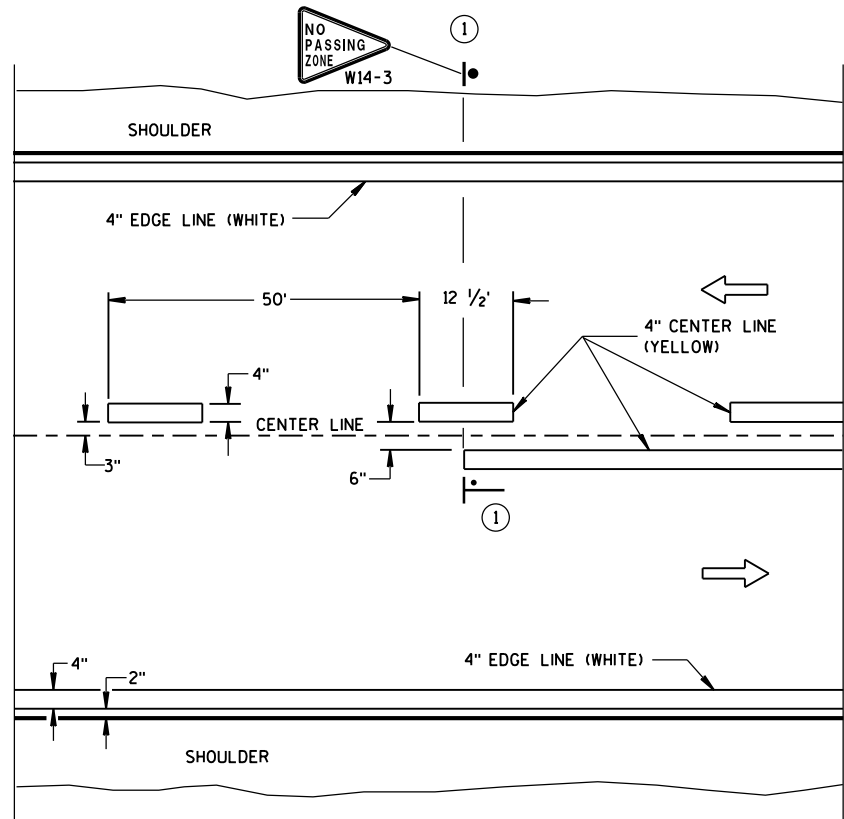


TYPE 5 LANE DROP ARROW

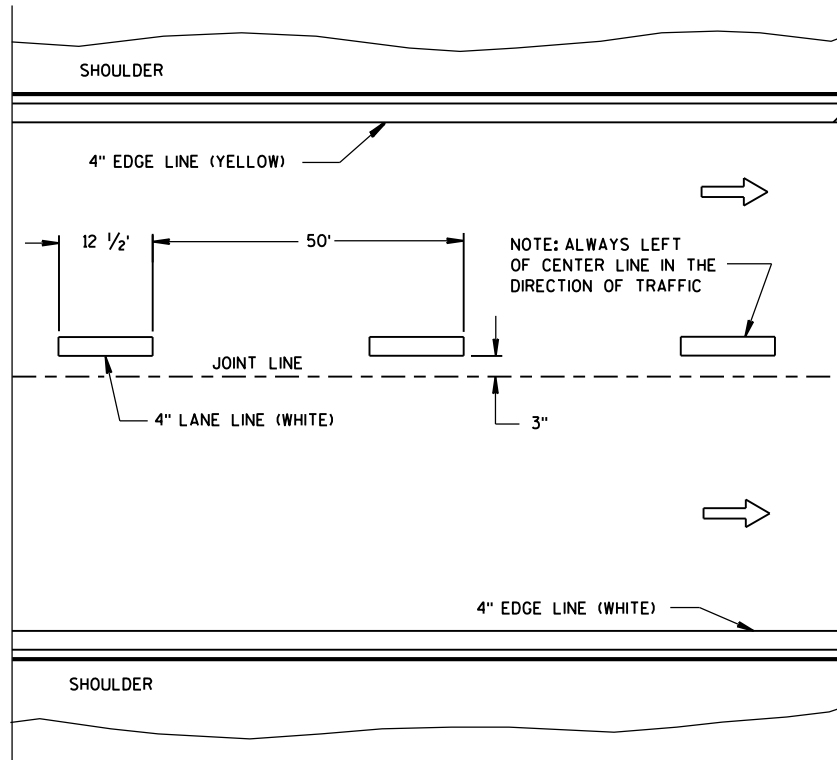
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-16 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA

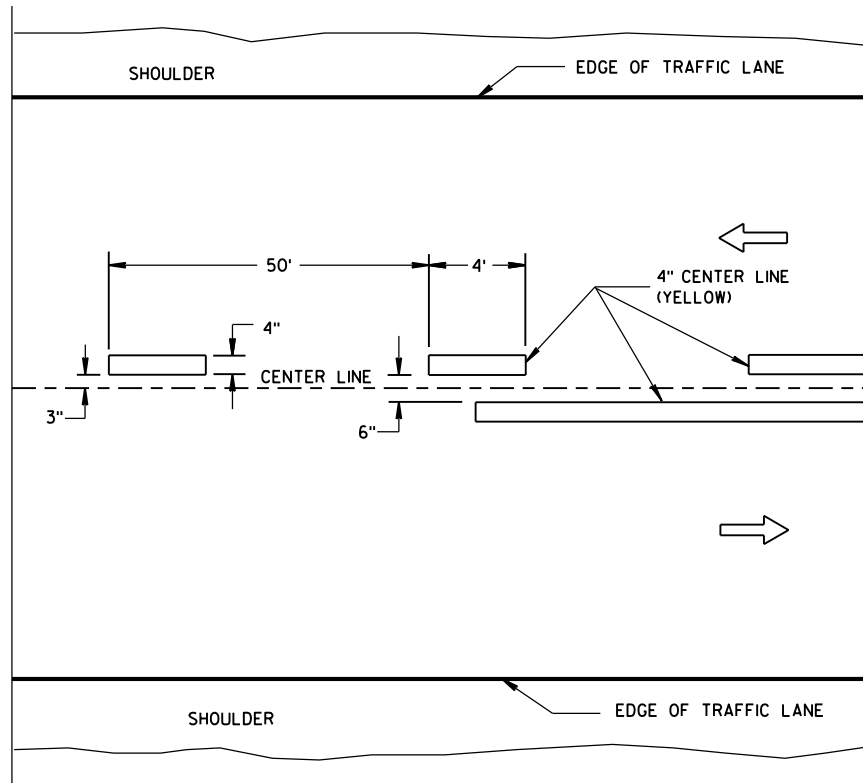


TWO WAY TRAFFIC

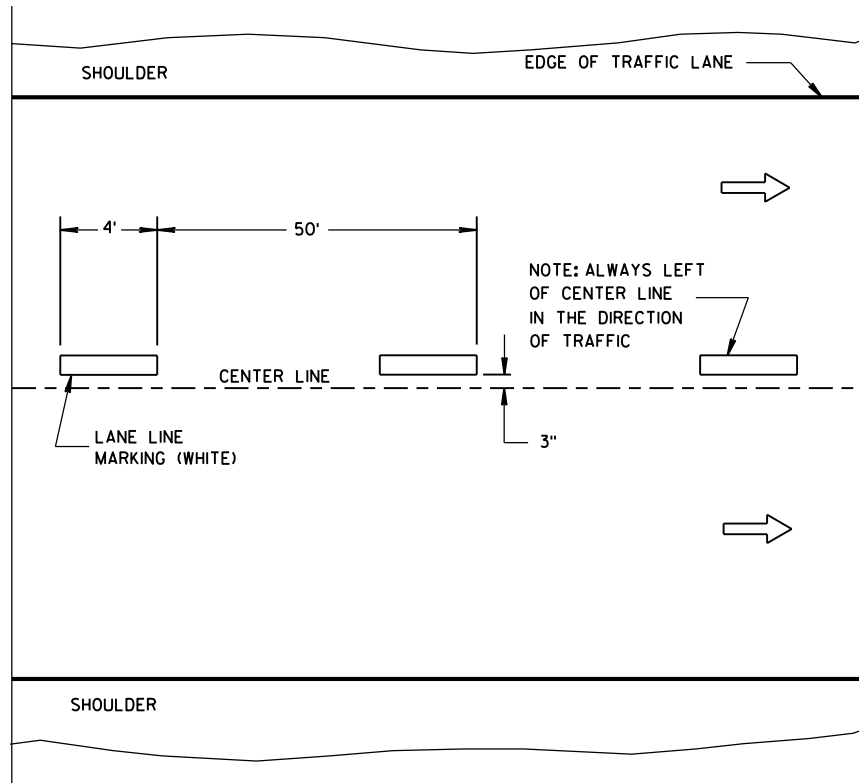


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

① NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

LEGEND





- "T" MARKING
- POST MOUNTED SIGN

LONGITUDINAL MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: Sept., 2016 /S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

LEGEND

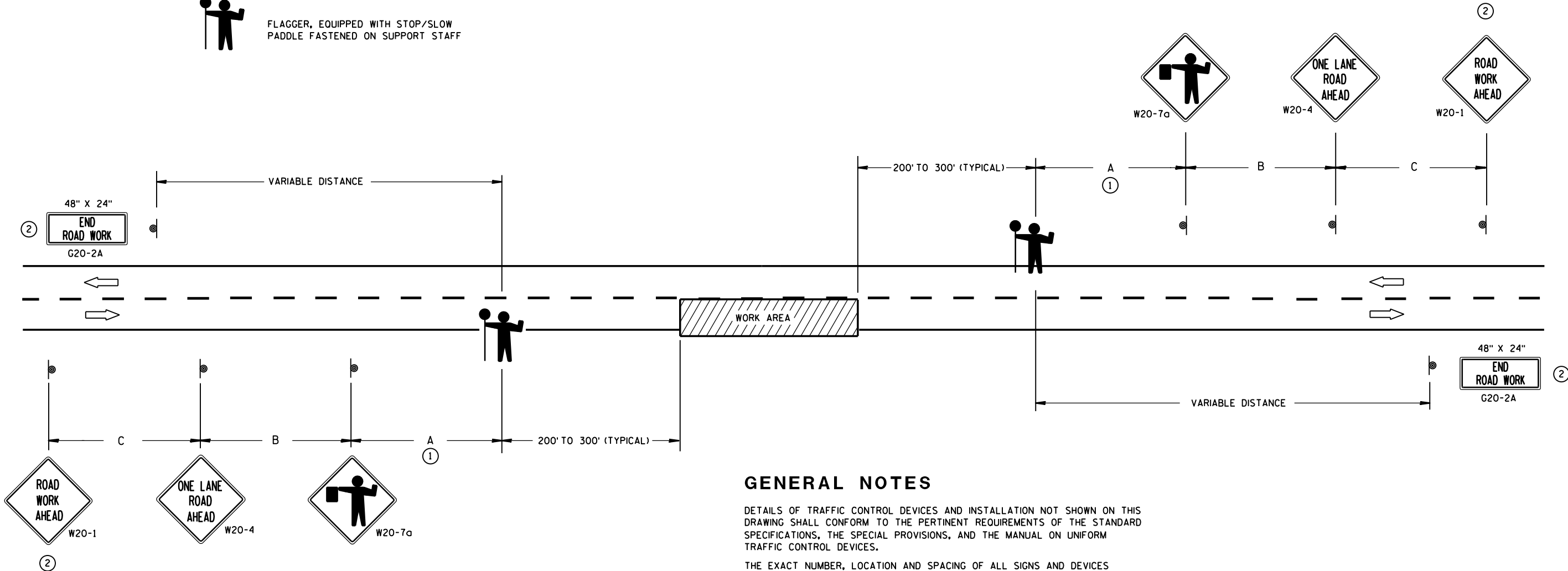
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

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



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



GENERAL NOTES

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

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

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

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

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

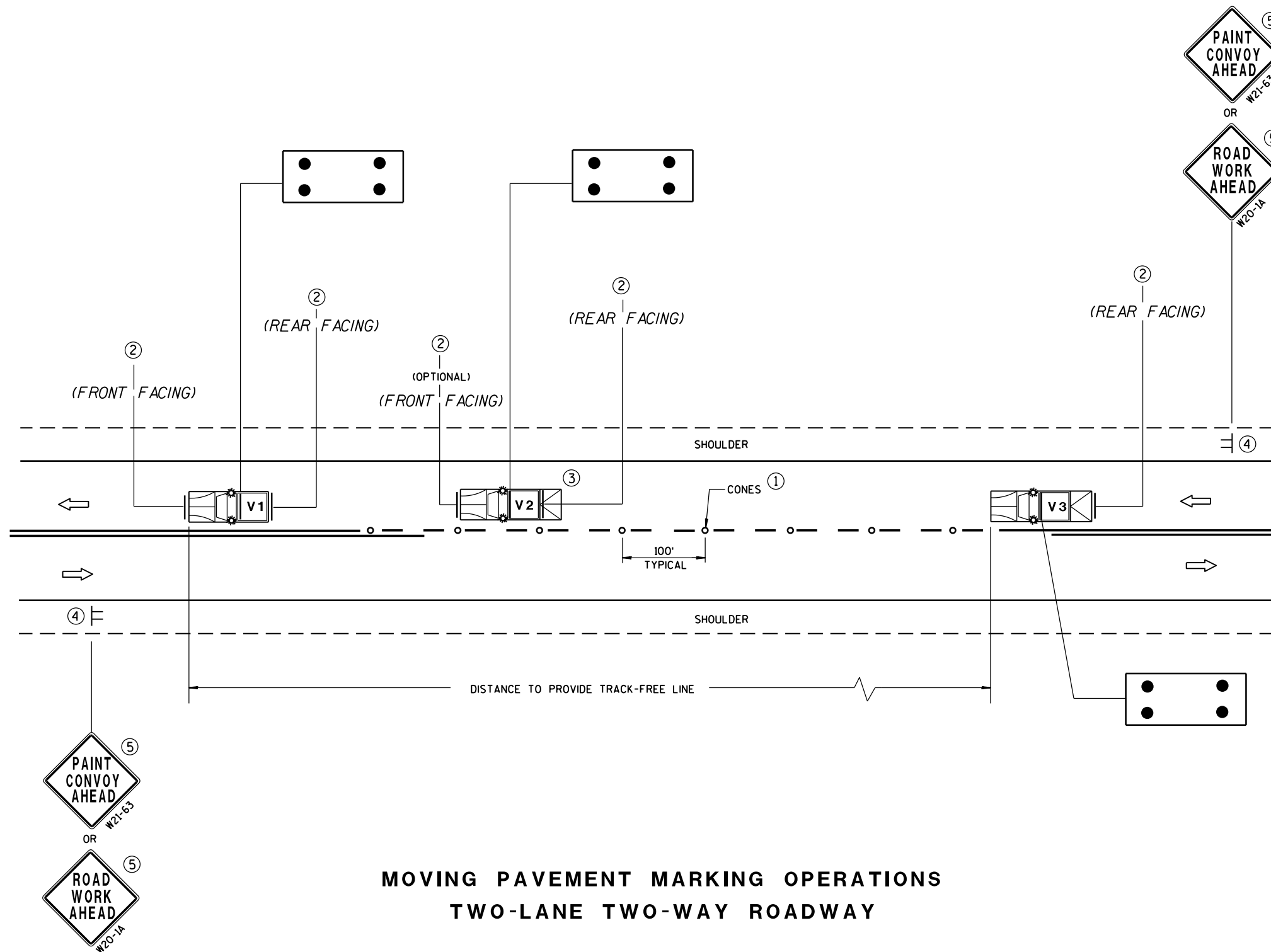
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

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

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

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

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

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

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

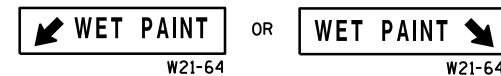
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

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

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

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.



③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

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

LEGEND

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

CONES

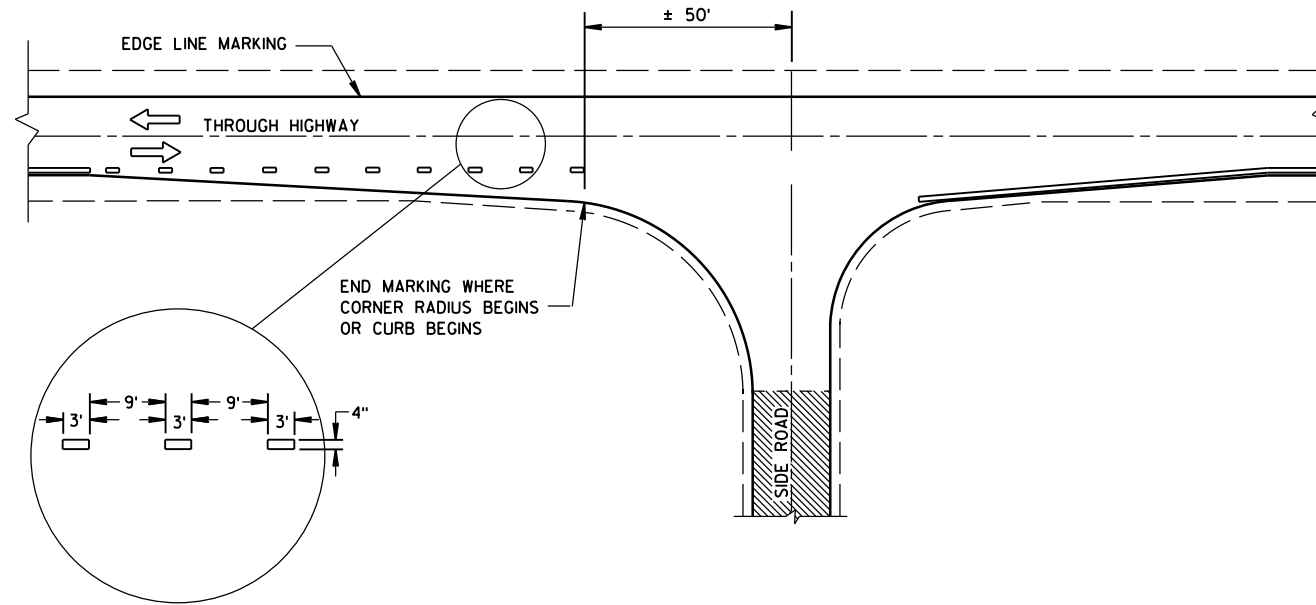
FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016
DATE
FHWA

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




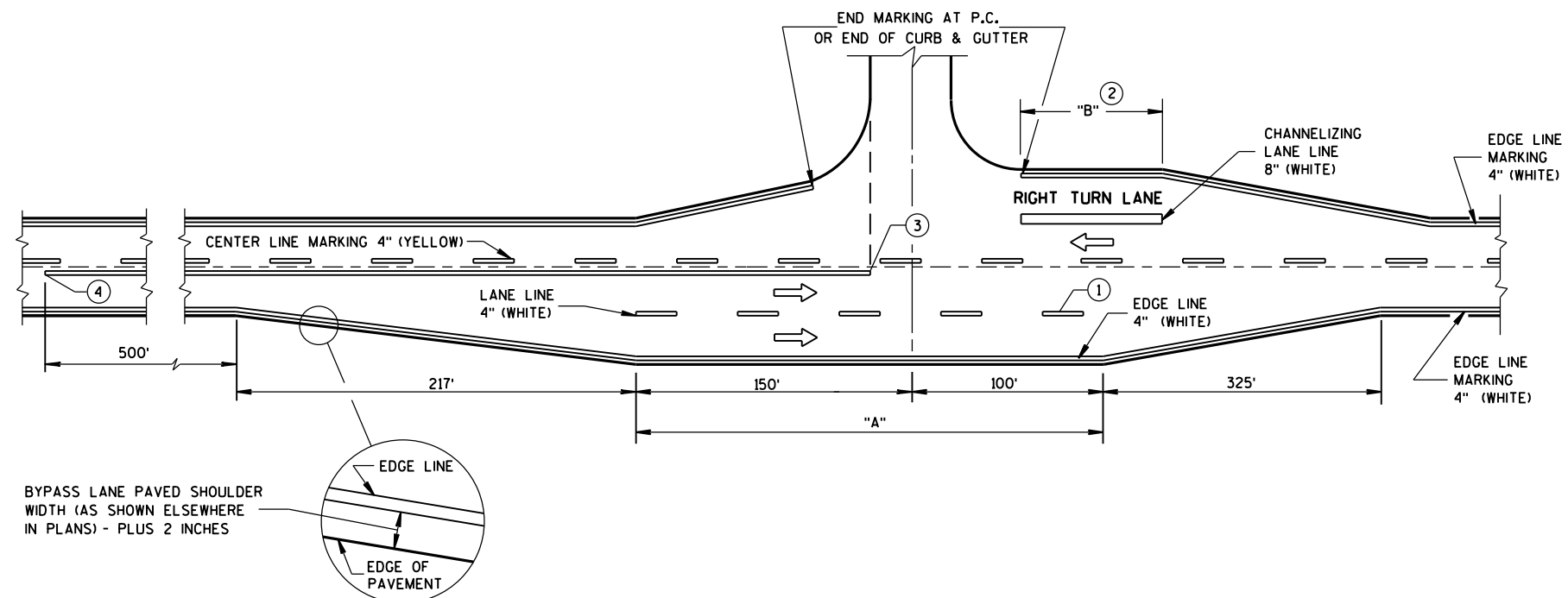
MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

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

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

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL



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

**PAVEMENT MARKING
(INTERSECTIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

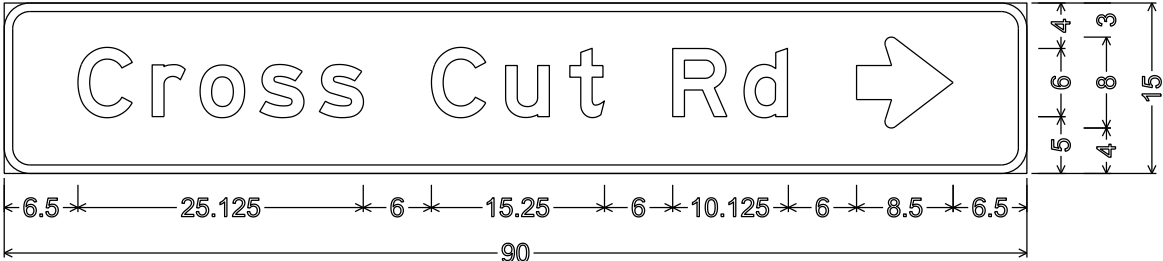
- NOTES
1. Sign is Type II - Type H Reflective

2. Color:

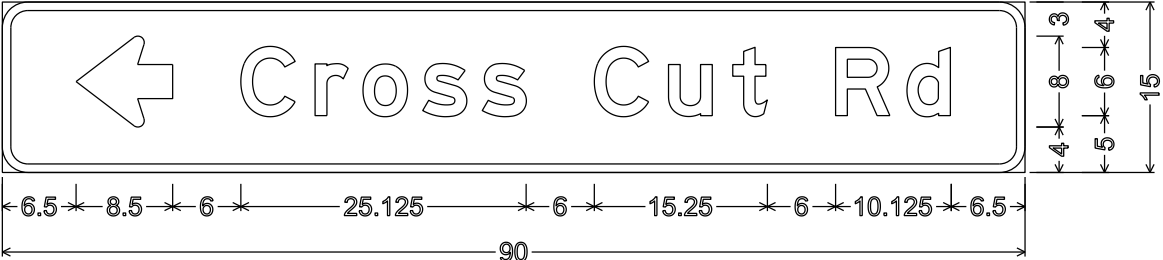
Background - Green

Message - White

3. Message Series - E



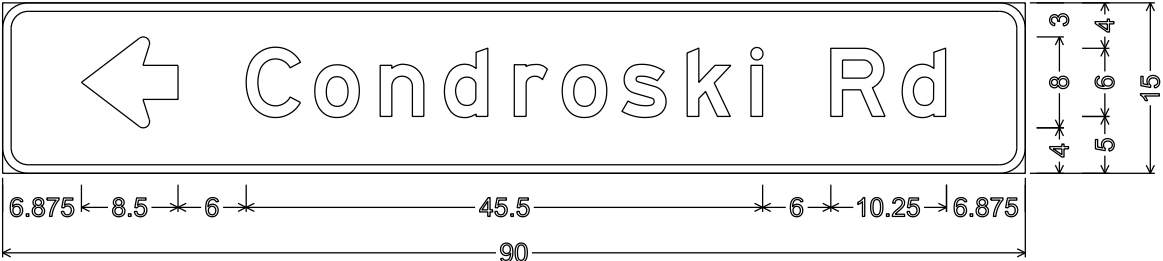
D1-1; 2.250" Radius, 0.750" Border



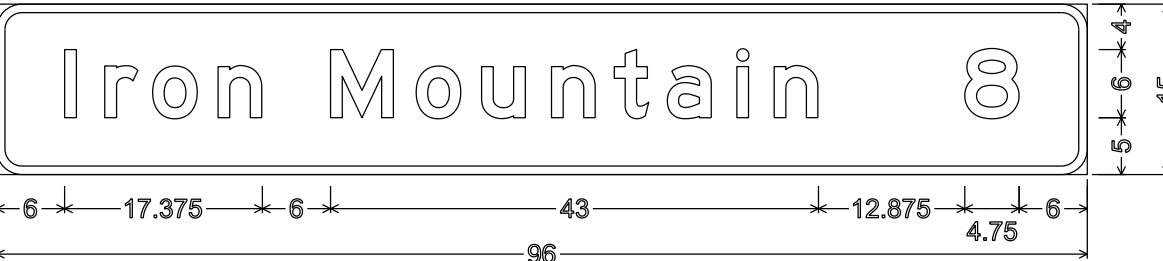
D1-1; 2.250" Radius, 0.750" Border



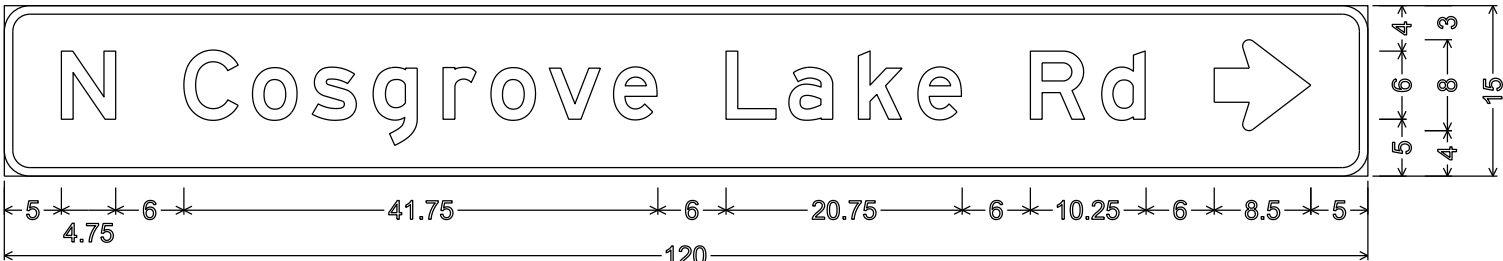
D1-1; 2.250" Radius, 0.750" Border



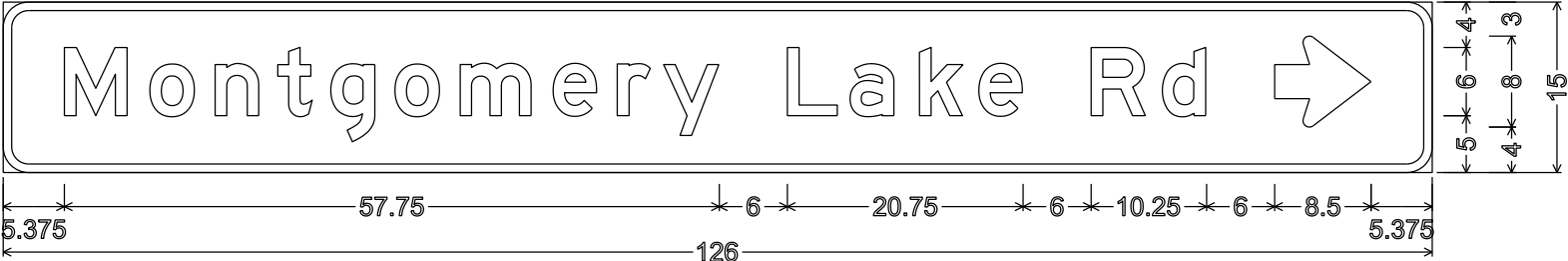
D1-1; 2.250" Radius, 0.750" Border



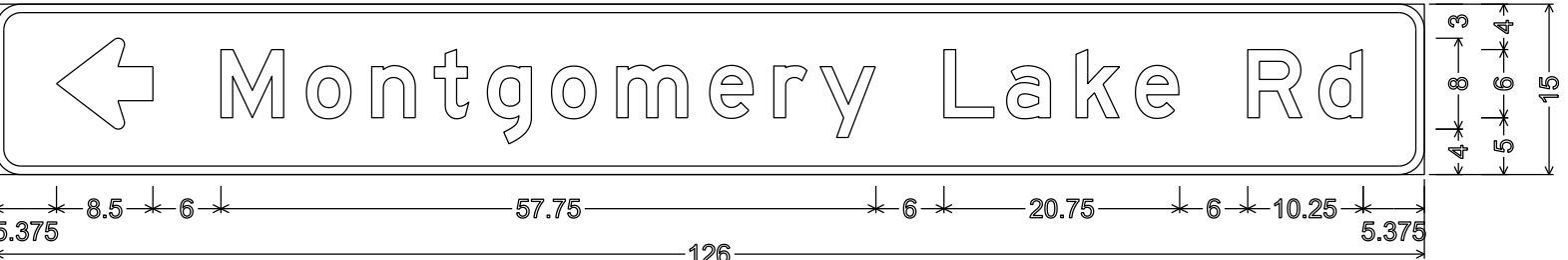
D2-1; 2.250" Radius, 0.750" Border



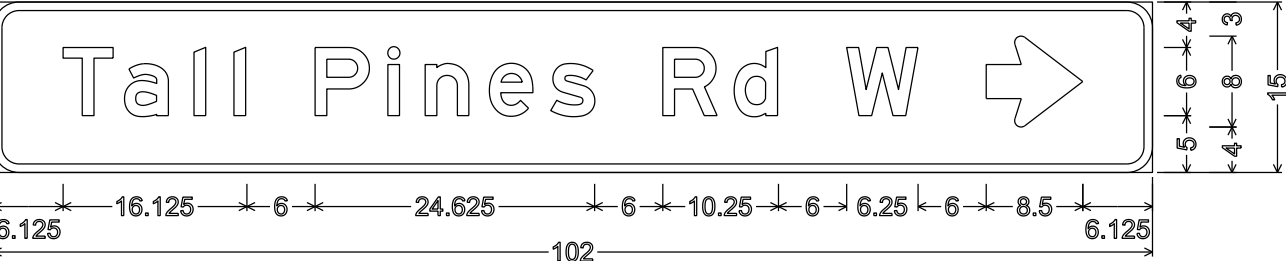
D1-1; 2.250" Radius, 0.750" Border



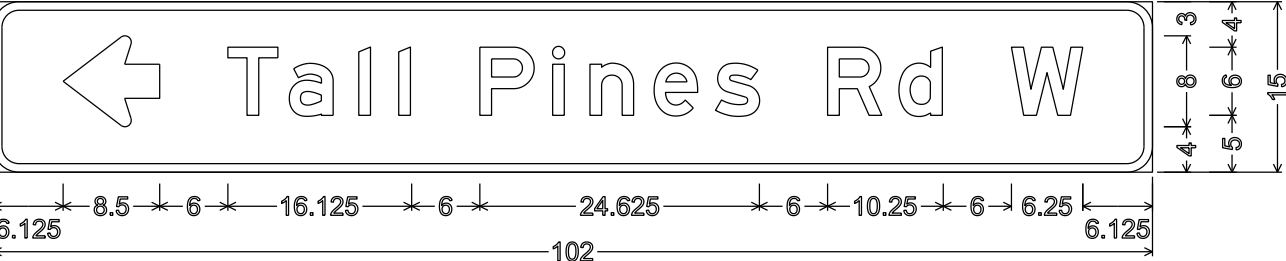
D1-1; 2.250" Radius, 0.750" Border



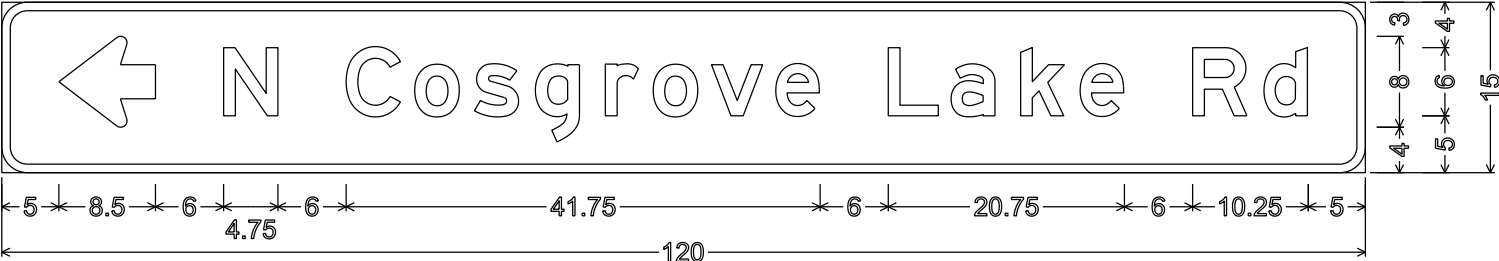
D1-1; 2.250" Radius, 0.750" Border



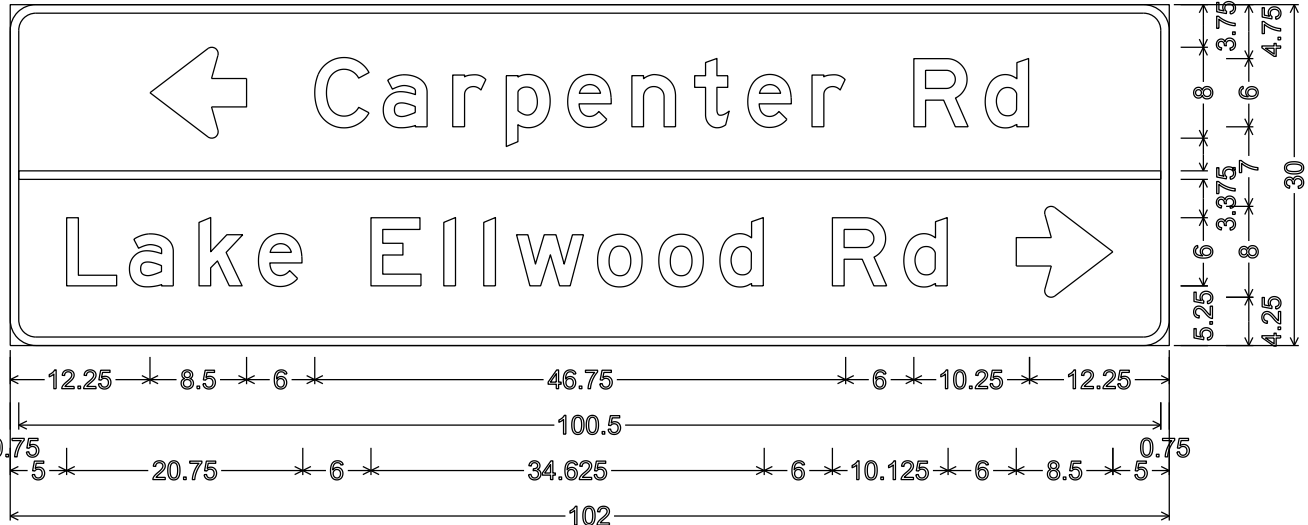
D1-1; 2.250" Radius, 0.750" Border



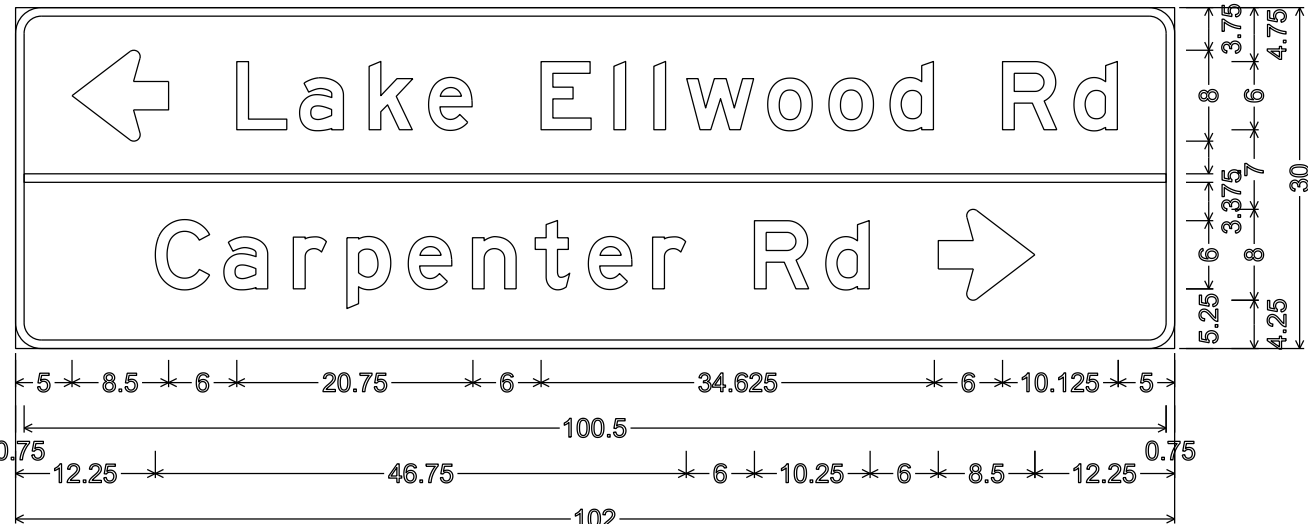
D1-1; 2.250" Radius, 0.750" Border



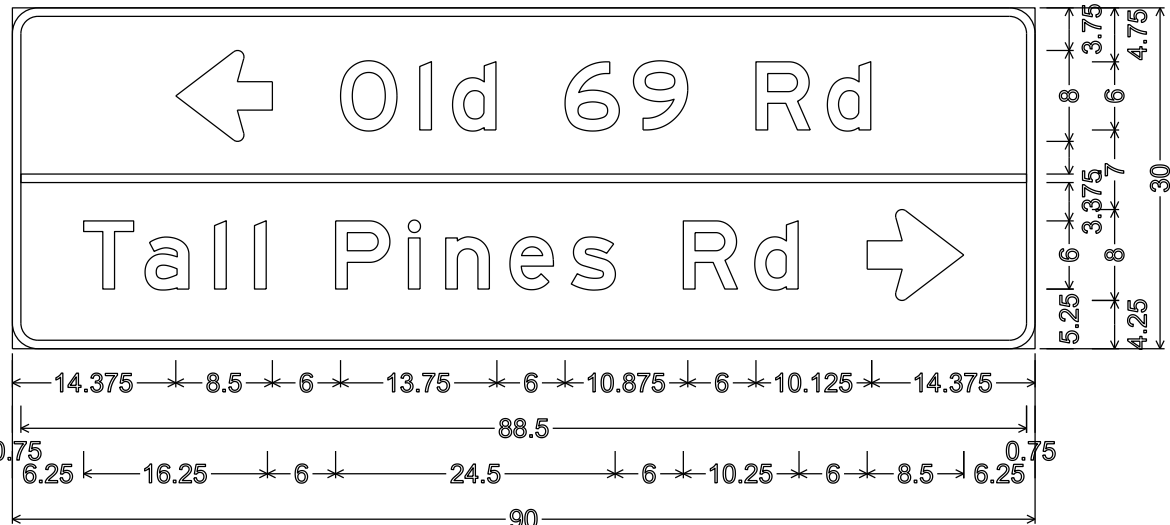
D1-1; 2.250" Radius, 0.750" Border



D1-2; 2.250" Radius, 0.750" Border



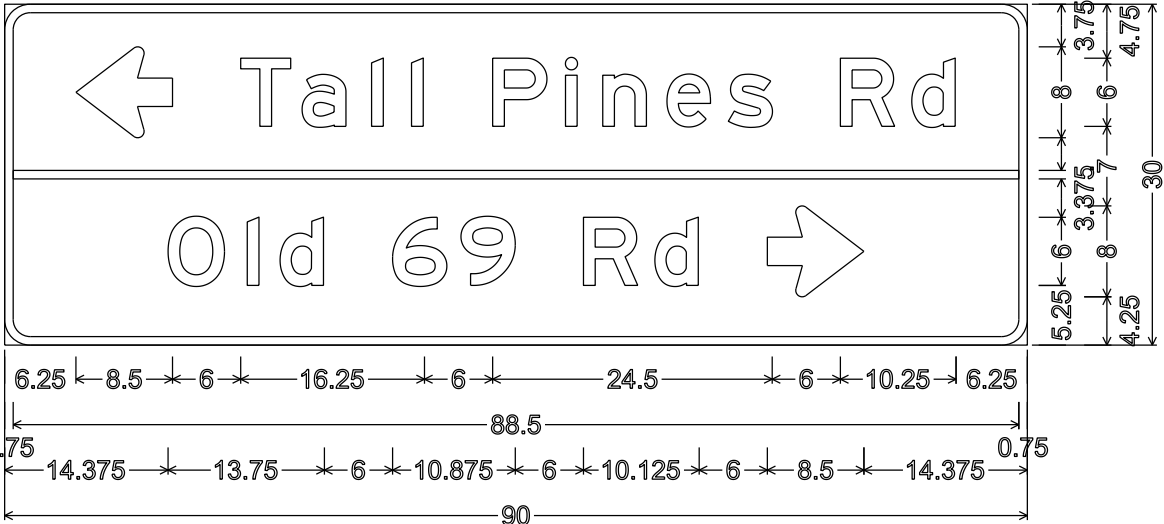
D1-2; 2.250" Radius, 0.750" Border



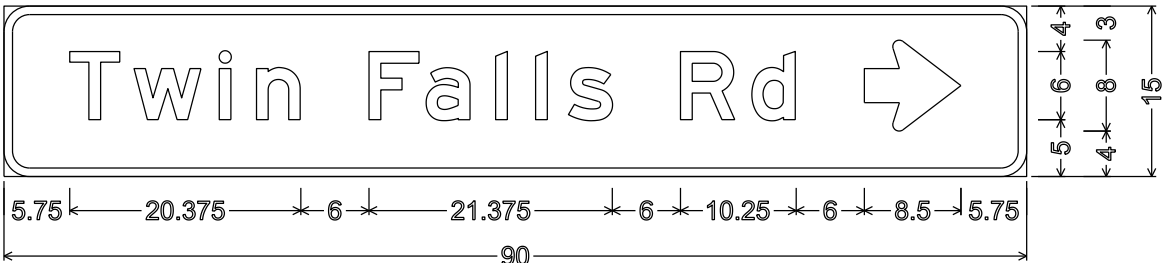
D1-2; 2.250" Radius, 0.750" Border

NOTES

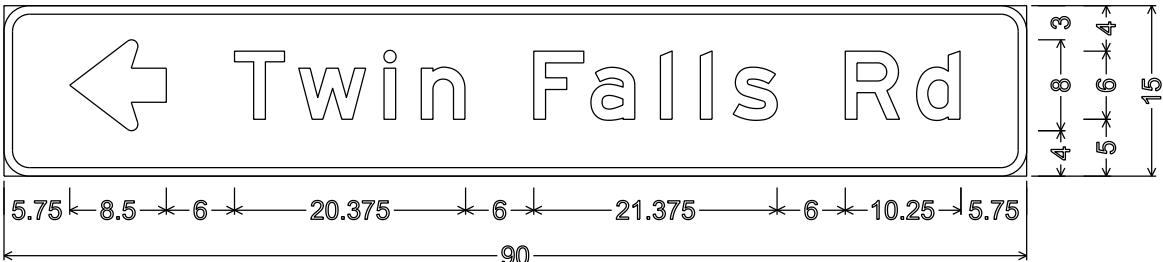
- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E



D1-2; 2.250" Radius, 0.750" Border



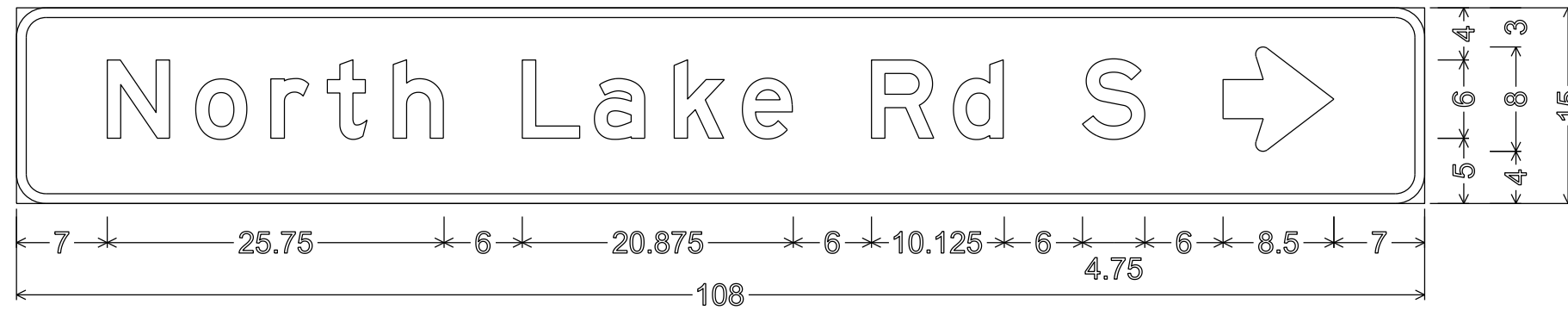
D1-1; 2.250" Radius, 0.750" Border



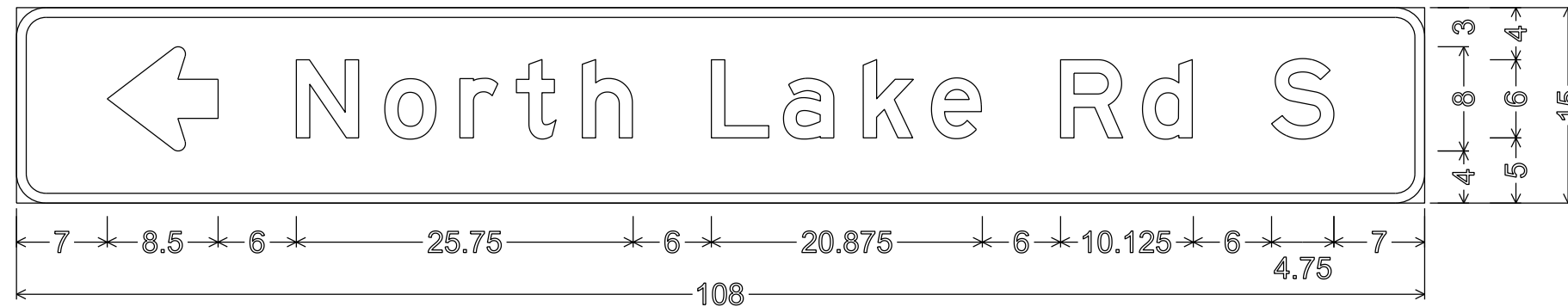
D1-1; 2.250" Radius, 0.750" Border

NOTES

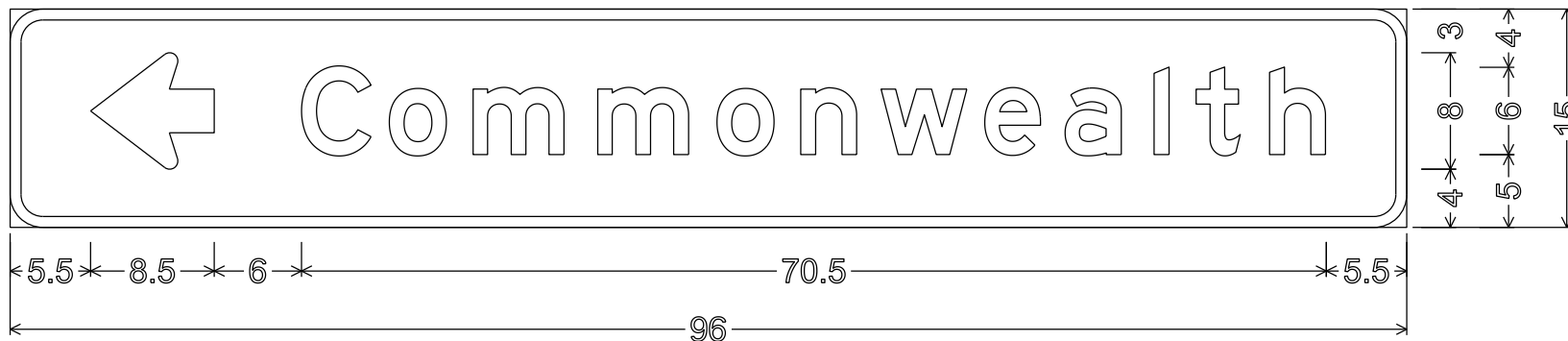
1. Sign is Type II - Type H Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E



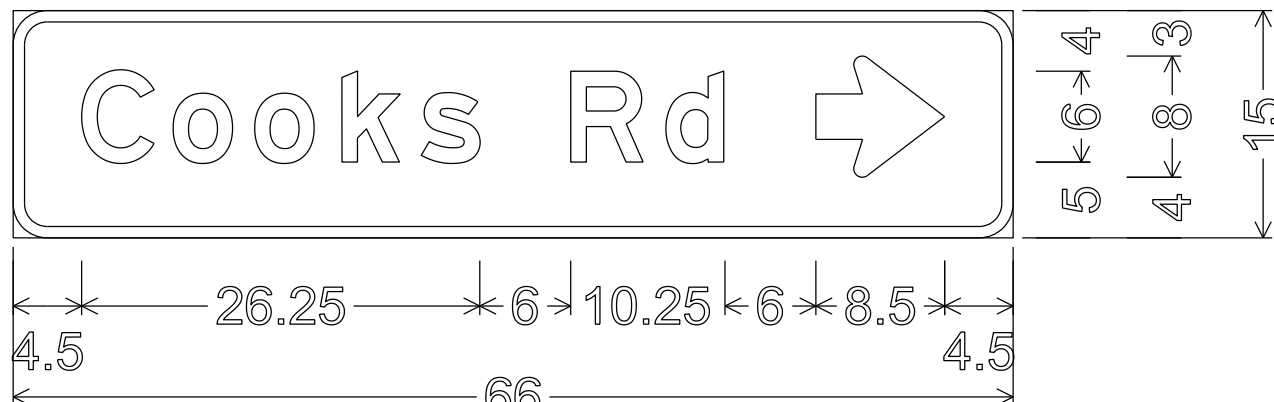
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



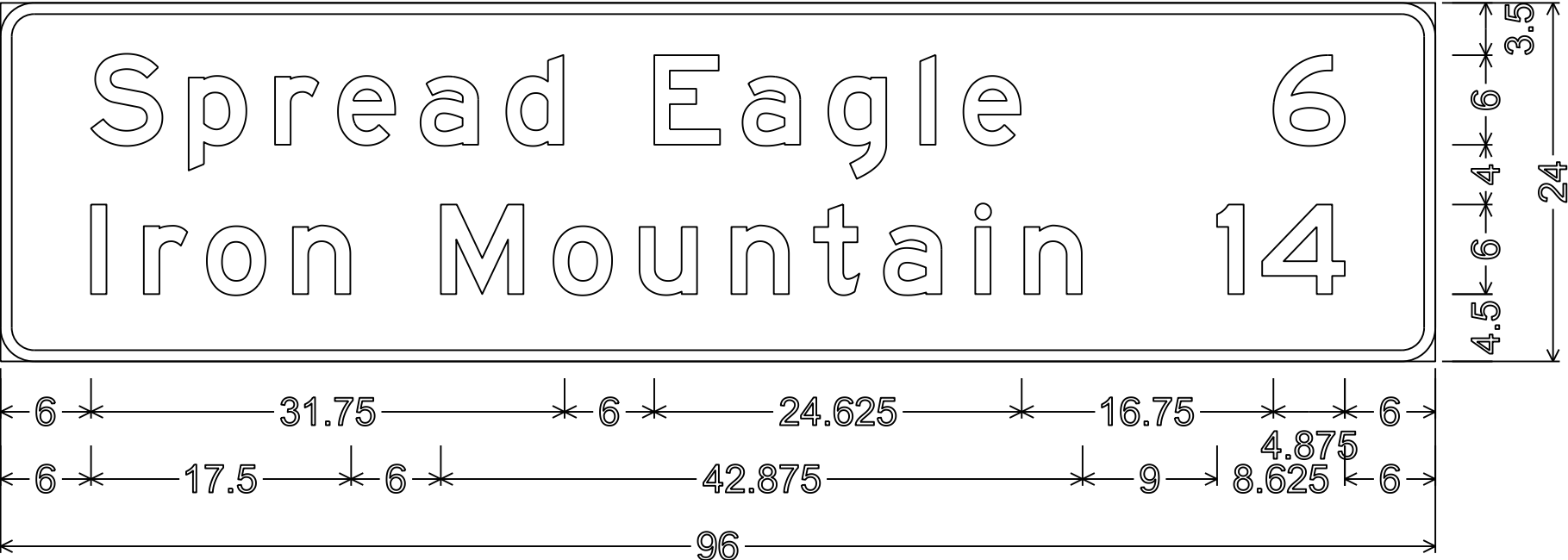
D1-1; 2.250" Radius, 0.750" Border



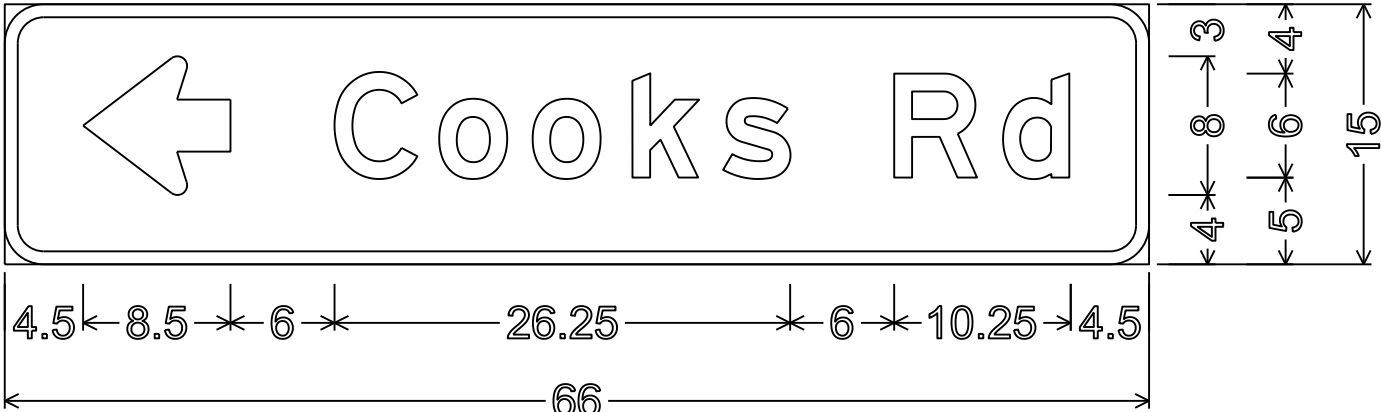
D1-1; 2.250" Radius, 0.750" Border

NOTES

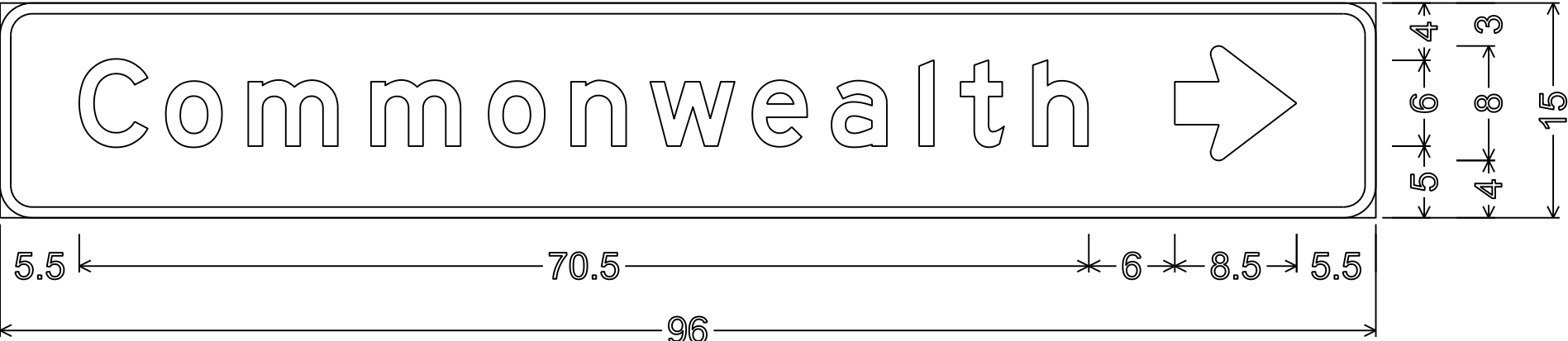
- 1. All Signs Type II - Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E except as noted



D2-2; 2.250" Radius, 0.750" Border



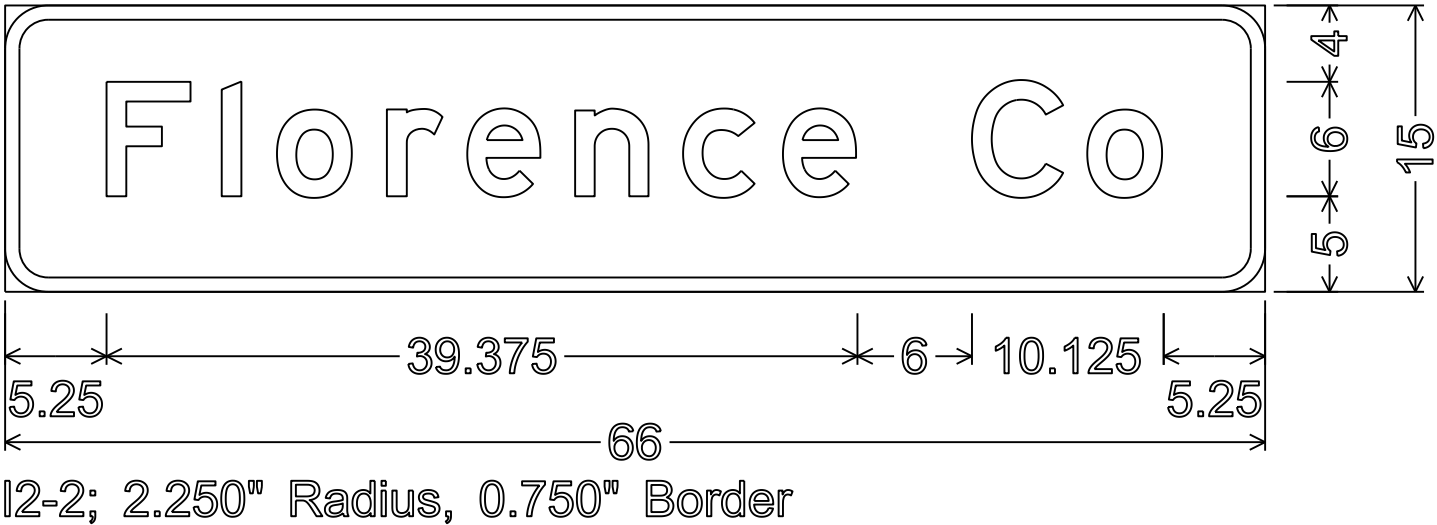
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border

NOTES

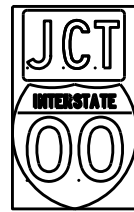
- 1. All Signs Type II - Type H Reflective
- 2. Color:
 - Background - Green
 - Message - White
- 3. Message Series - E



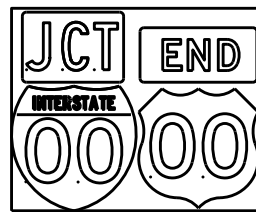
7

7

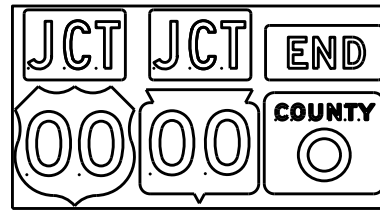
TYPICAL ASSEMBLIES



J1-1



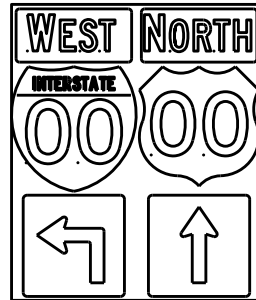
J1-2



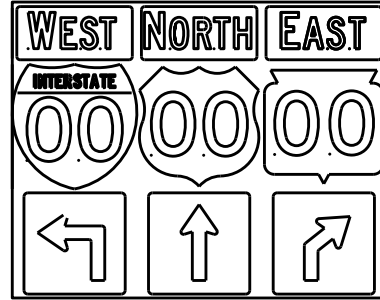
J1-3



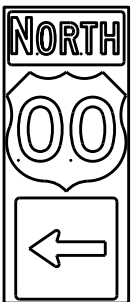
J2-1



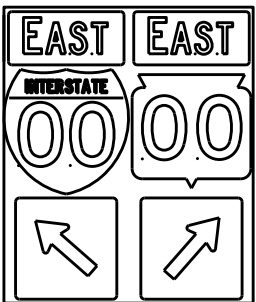
J2-2



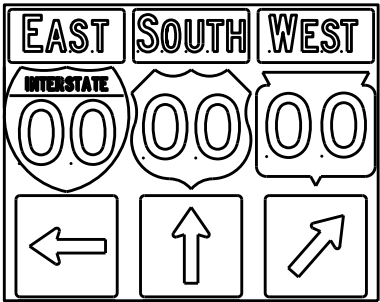
J2-3



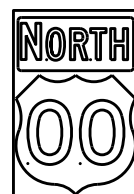
J3-1



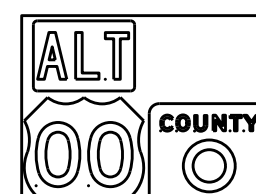
J3-2



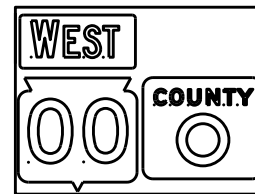
J3-3



J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

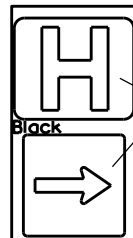


J22-1



JV

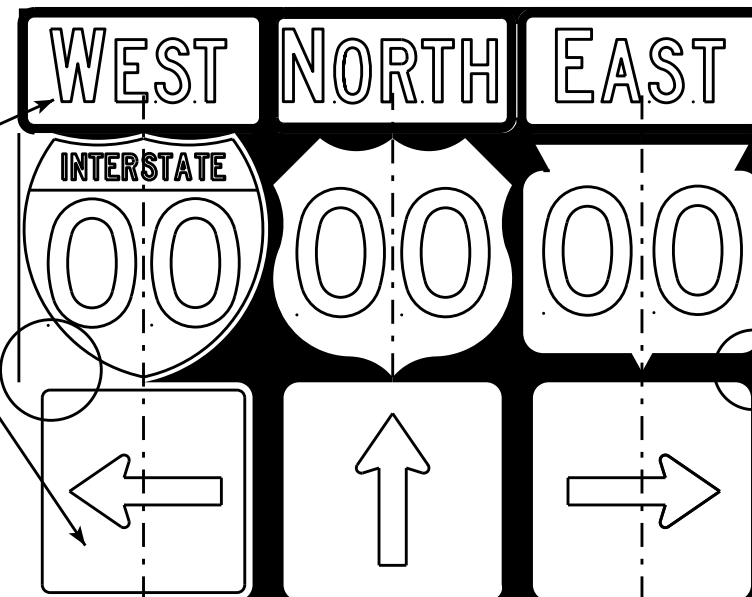
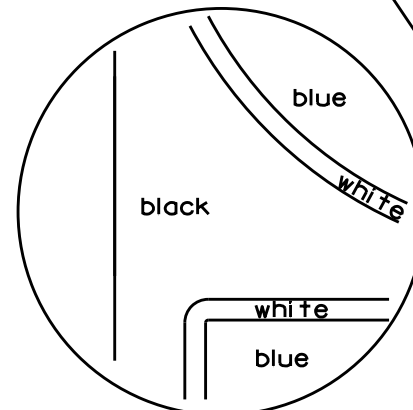
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



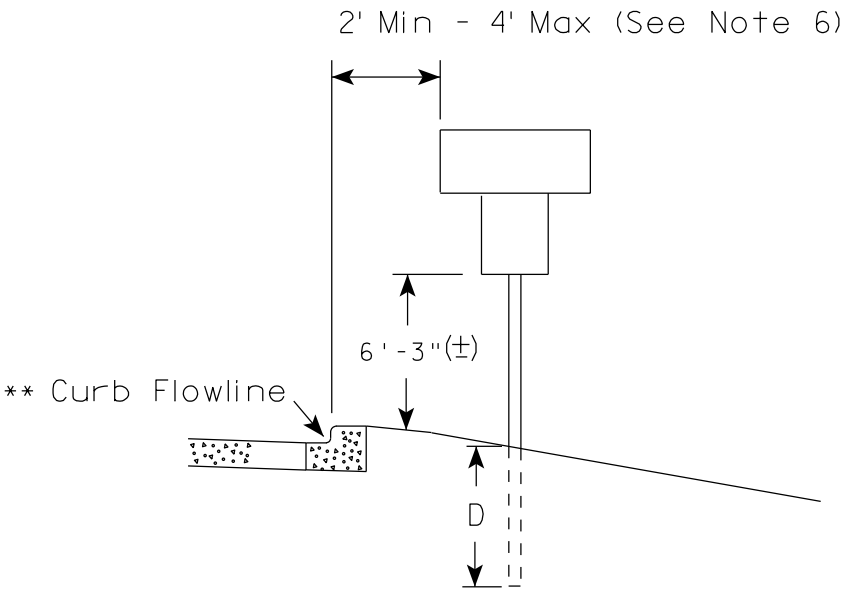
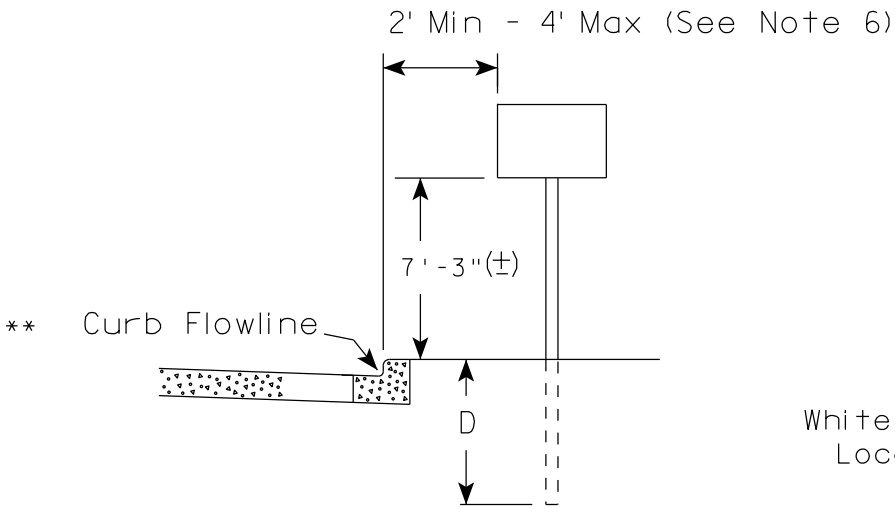
[black background]

ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 2/06/14	PLATE NO. A2-1S.8

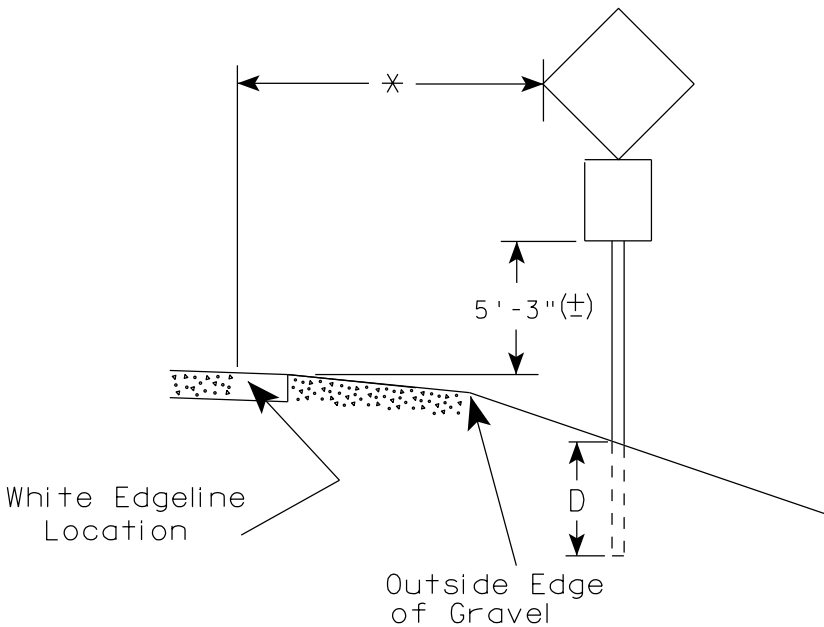
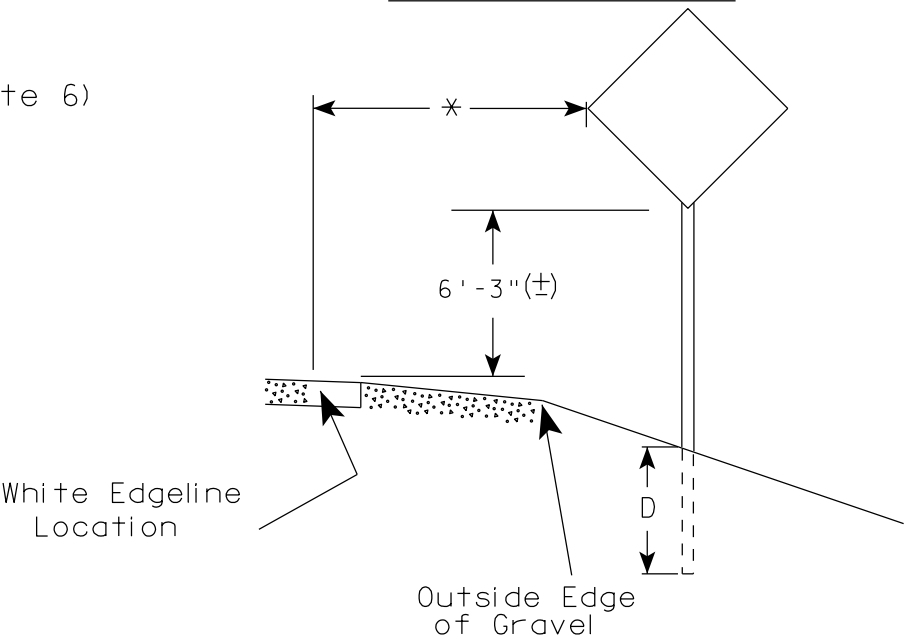
NOTES

- Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 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 M1-1 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.

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 barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

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

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

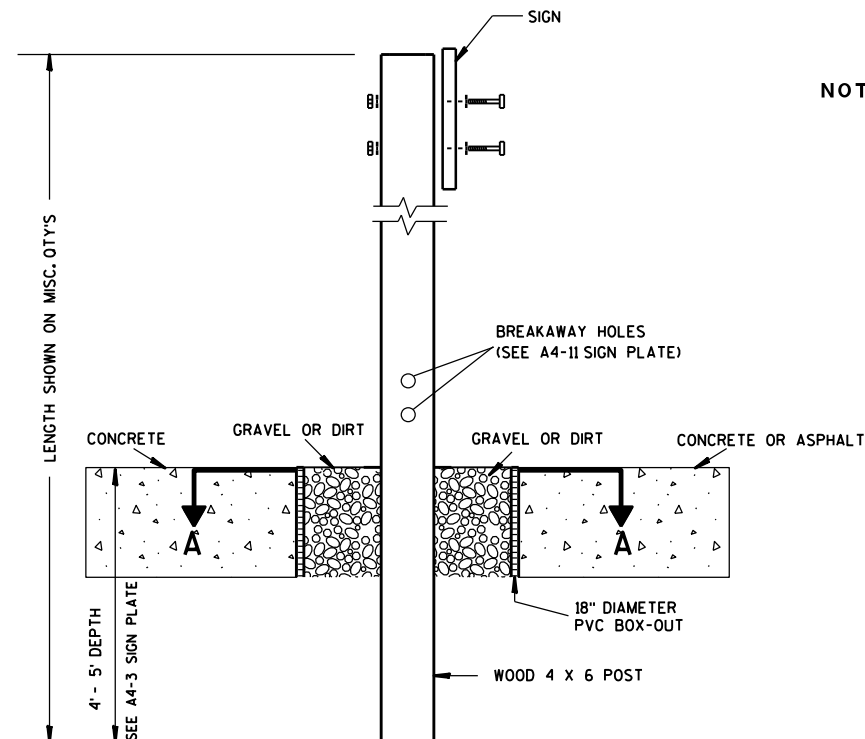
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

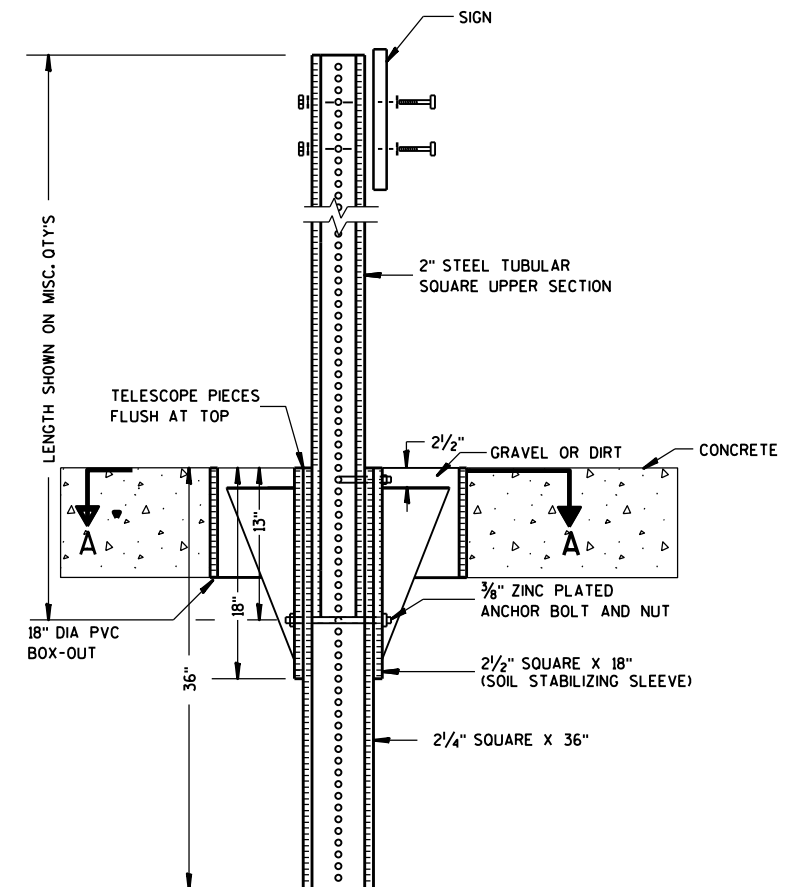
DATE 7/23/15 PLATE NO. A4-3.20



ELEVATION VIEW

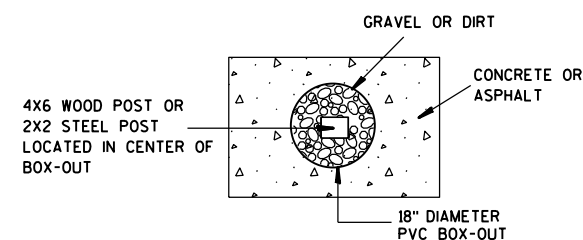
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES: 1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

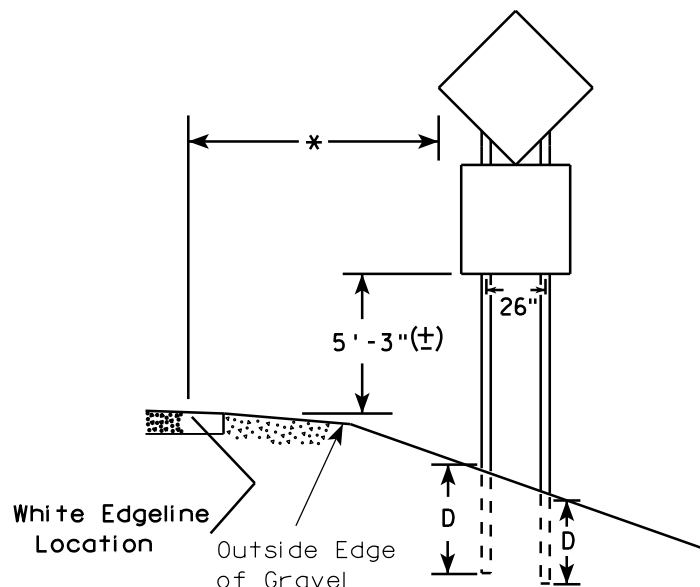
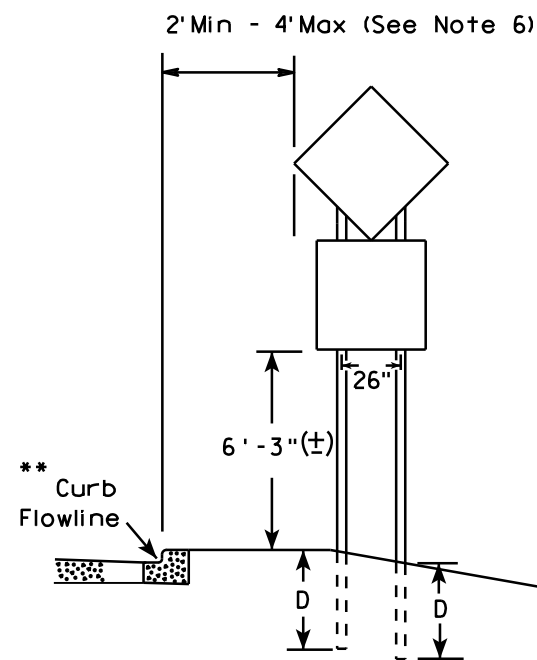
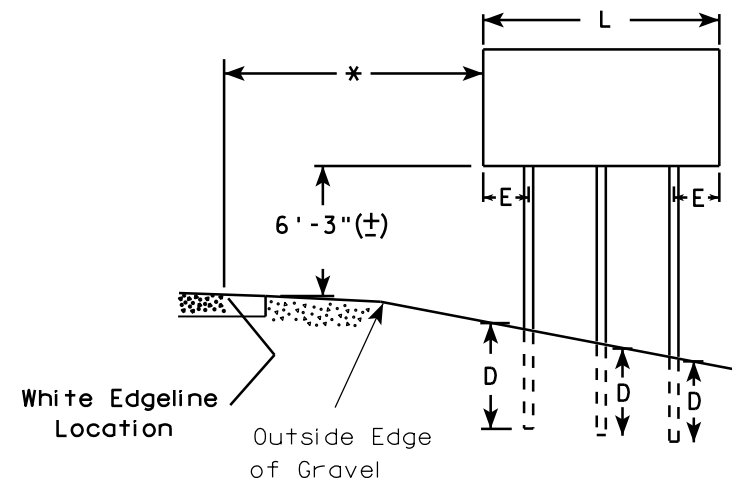
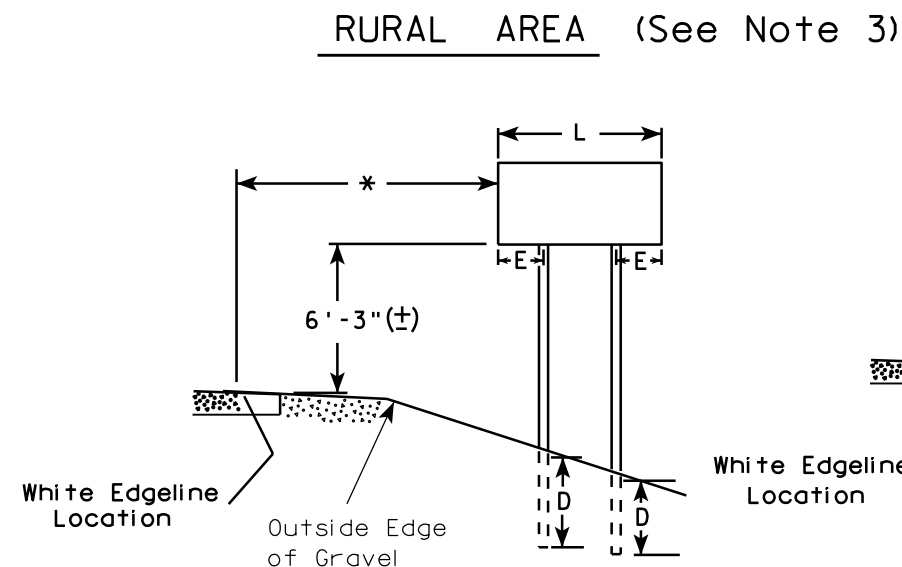
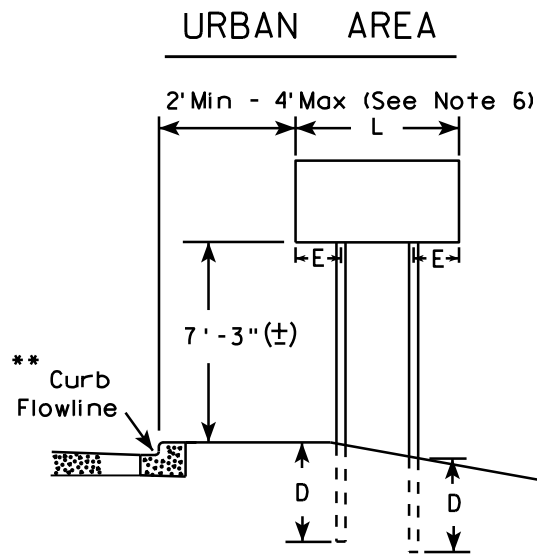
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



48" DIAMOND WARNING SIGN

48" DIAMOND WARNING SIGN

- GENERAL NOTES**
1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
 2. See tables below for required number of posts.
 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
 4. The (±) tolerance for mounting height is 3 inches.
 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

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

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

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

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

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4.14



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

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

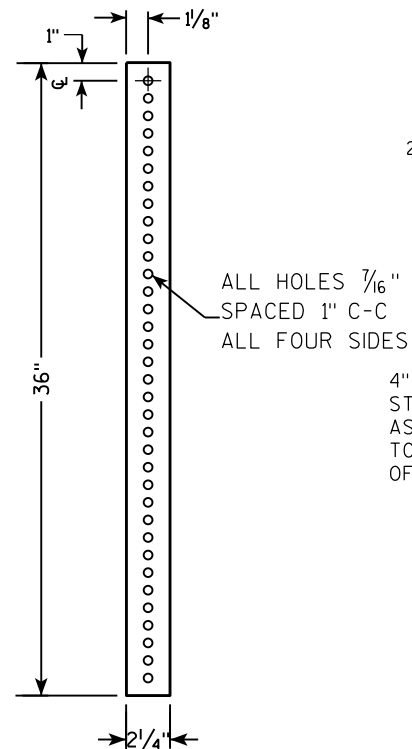
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- 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 4" or 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

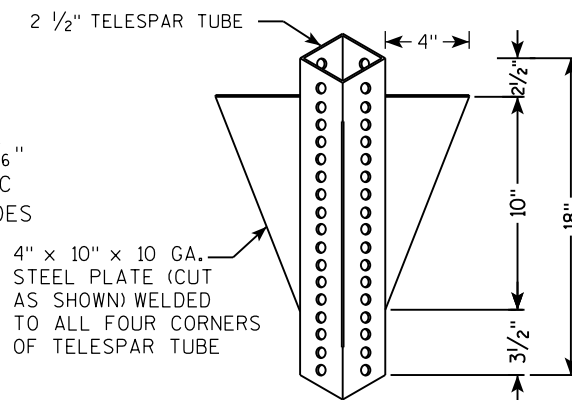
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require 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 8/11/16	PLATE NO. A4-8.8

**2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH**



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



LENGTH SHOWN ON MISC. QTY'S
 18" DIA SCHEDULE 40 PVC BOX-OUT
 TELESCOPE PIECES FLUSH AT TOP
 36"
 18"
 13"
 2 1/2"
 2 1/4" SQUARE X 36"
 2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)
 3/8" ZINC PLATED ANCHOR BOLT AND NUT
 3/8" ZINC PLATED CORNER ANCHOR BOLT AND NUT
 ALL HOLES 7/16" SPACED 1" C-C ALL FOUR SIDES
 2" STEEL TUBULAR SQUARE UPPER SECTION
 SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
 SIGN
 2 1/2" GRAVEL OR DIRT

LENGTH SHOWN ON MISC. QTY'S

SIGN

SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL

2" STEEL TUBULAR SQUARE UPPER SECTION

ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C ALL FOUR SIDES

$\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT

TELESCOPE PIECES FLUSH AT TOP

1"

$\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT

2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)

2 1/4" SQUARE X 36"

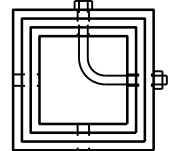
36"

18"

12"

A

3/8" ZINC PLATED CORNER
ANCHOR BOLT AND NUT →



DIRECTION
OF TRAFFIC

SECTION A-A

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

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthieu R. Rauch

for State Traffic Engineer

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

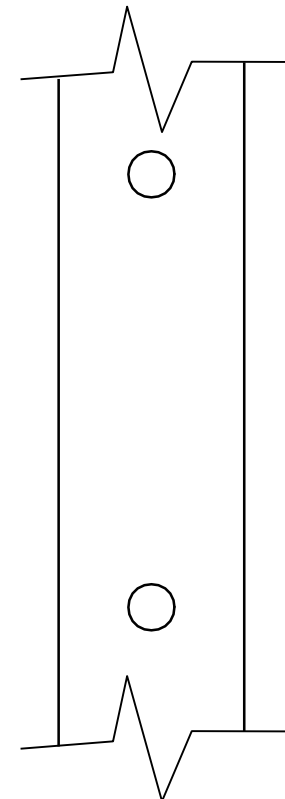
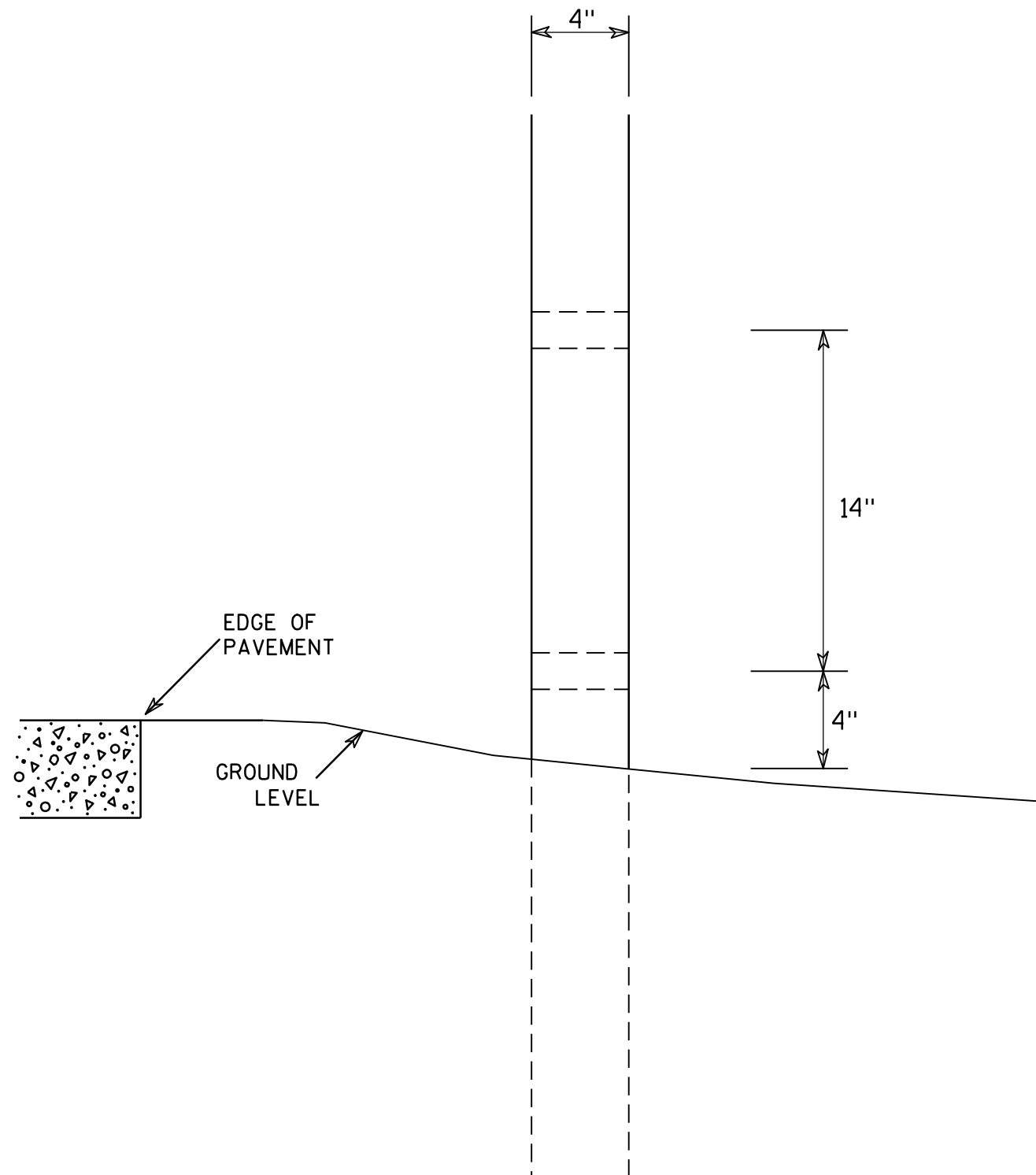
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

11



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1 1/2" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

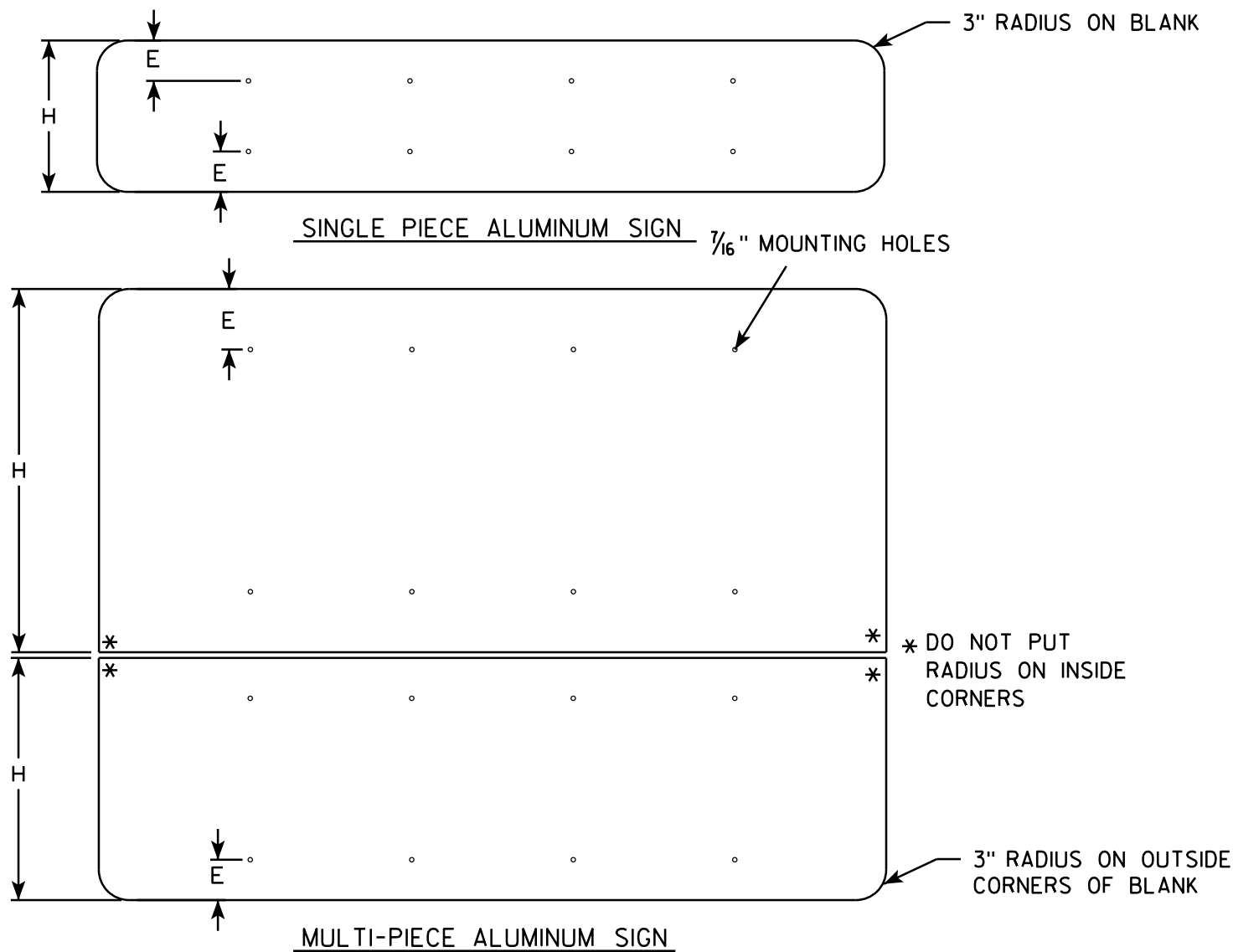
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

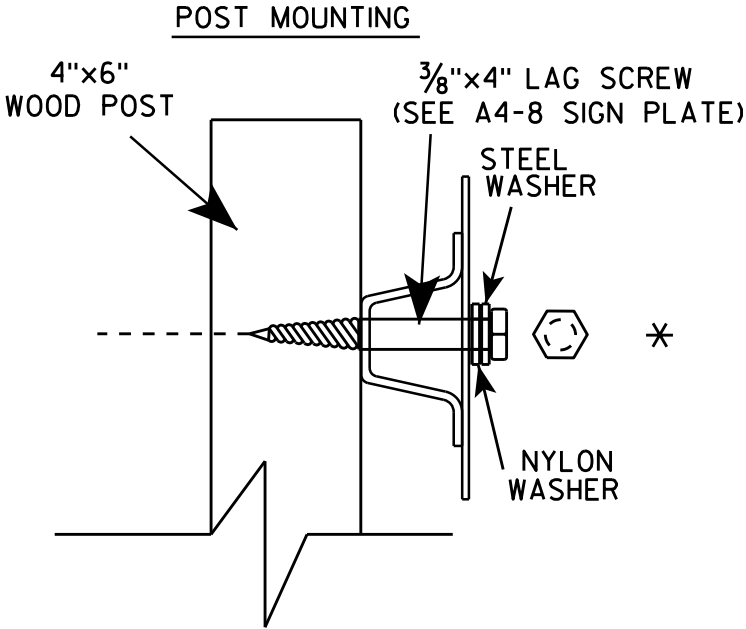
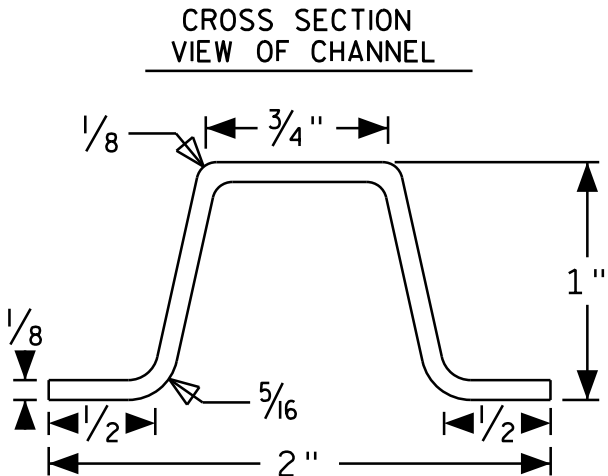
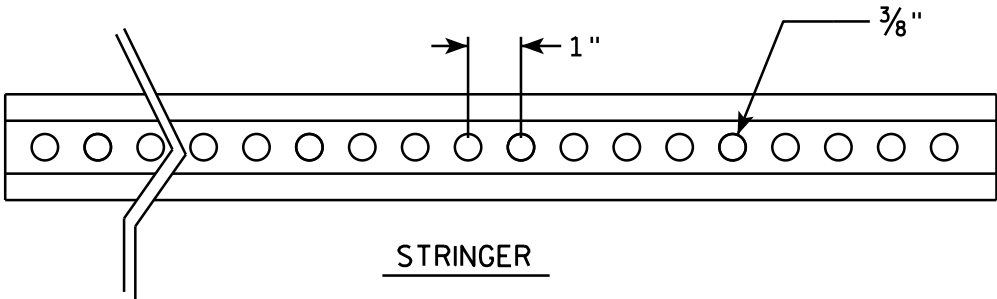
E



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 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 1/2"	33 1/2"	50 1/2"	67 1/2"
90"	72"	2	18"	18"	36"	54"	72"
96"	90"	2	19"	19 1/2"	38 1/2"	57 1/2"	76 1/2"
102"	90"	2	20"	21"	41"	61"	81"
108"	90"	2	21"	22 1/2"	43 1/2"	64 1/2"	85 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"



SIGN STRINGER
MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

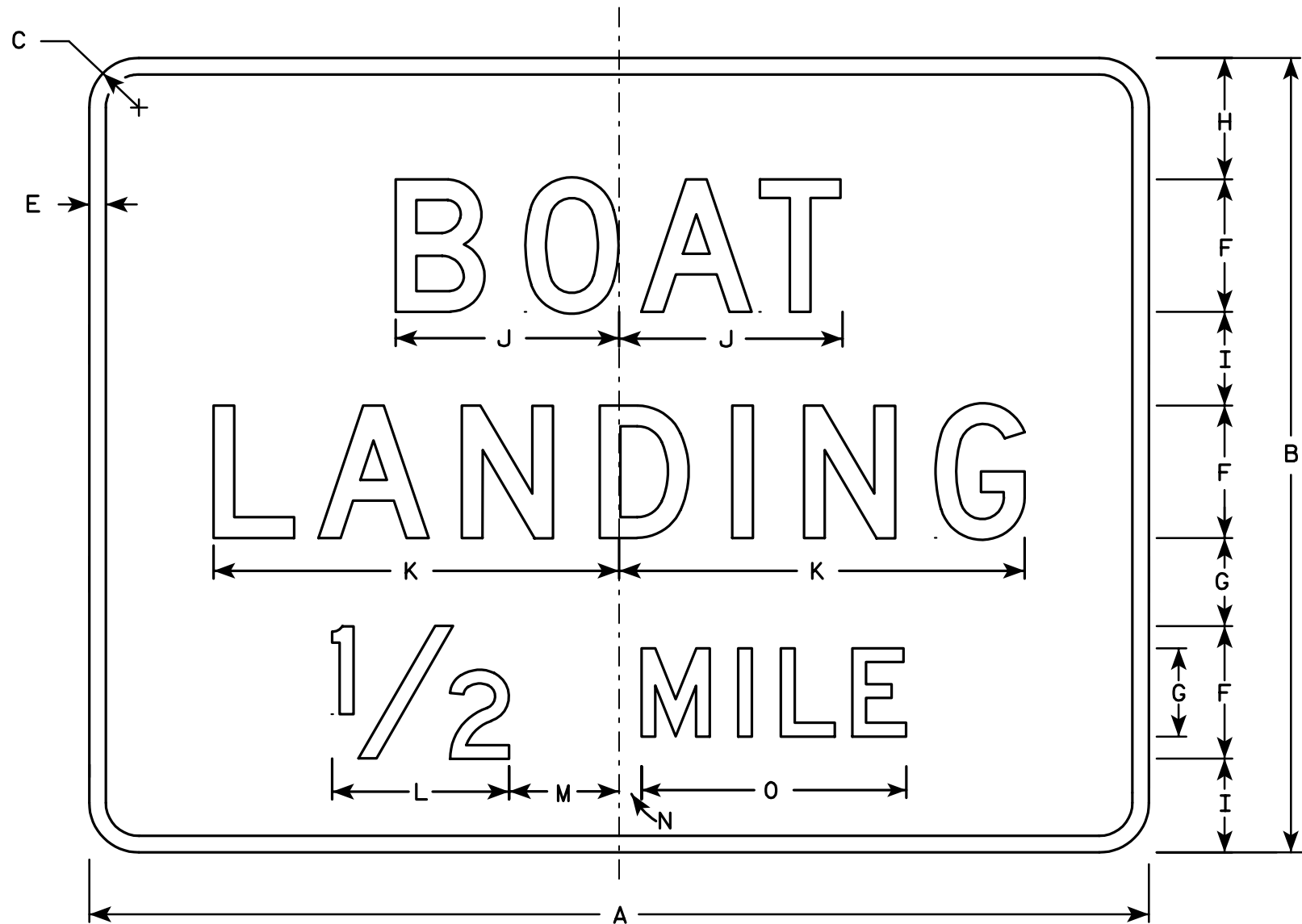
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

58, 59, 60, 61, 62, 63

7

LEVELS ON - 2, 3, 5, 6, 10,



D7-54

Metric equivalent
for this sign is:

SIZE	
1	
2	1200 mm X 900 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area sq. m.
1																												
2	48	36	2 1/4		3/4	6	4	5 1/2	4 1/4	10 1/8	18 3/8	8	5	1	12												12.0	1.08
3																												
4																												
5																												

STATE PROJECT NUMBER:

FILE NAME : C:\Users\Projects\tr_std\late\D754.DGN

PLOT DATE : 22-JAN-2002 08:05

ORG DATE : 6/13/97

Originator : Don Kluever

STANDARD SIGN
D7-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Christa J. Spay
for State Traffic Engineer

DATE 1/10/02

PLATE NO. D7-54.6

SHEET NO:

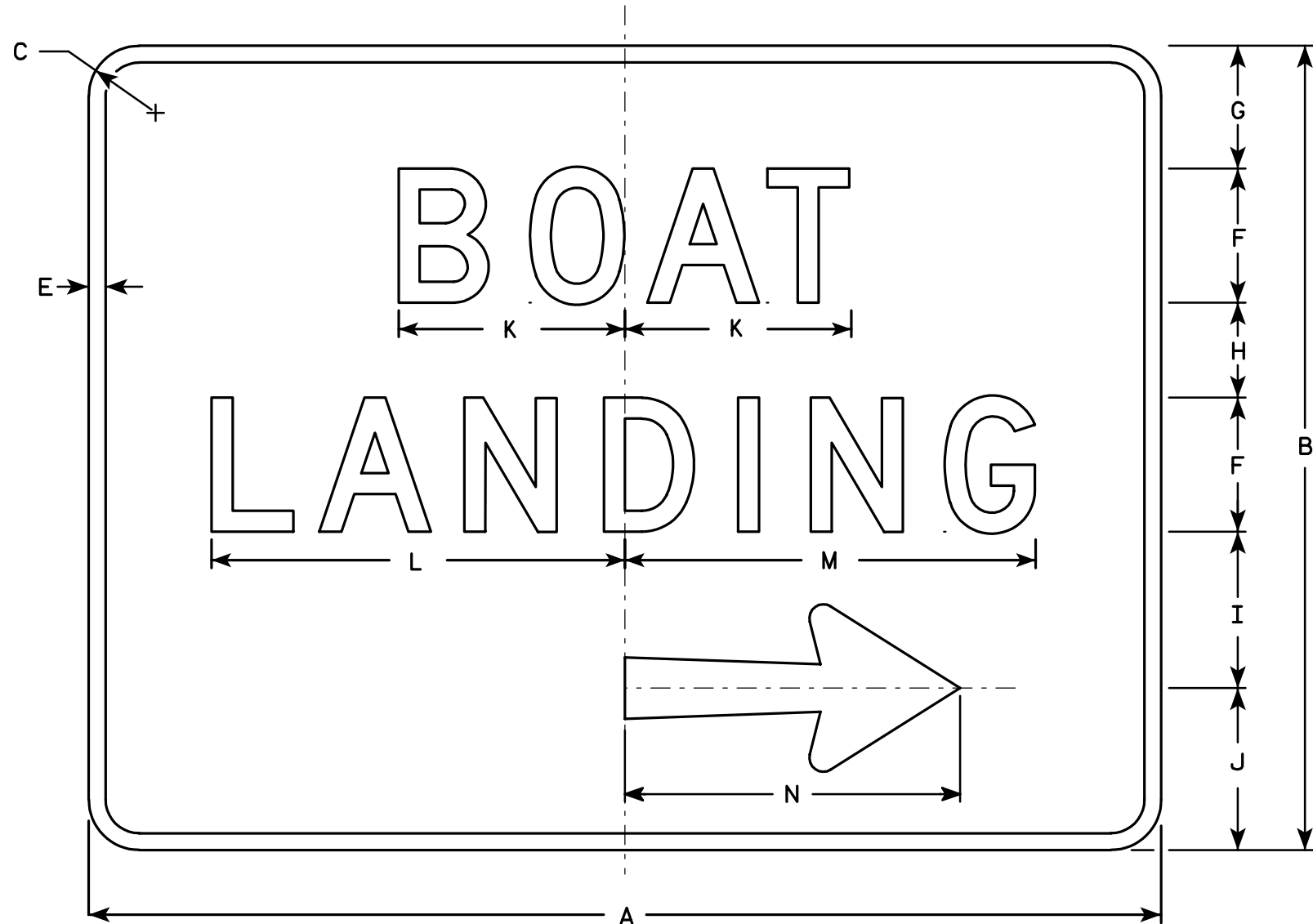
E

7

56, 59, 60, 61, 62, 63

7

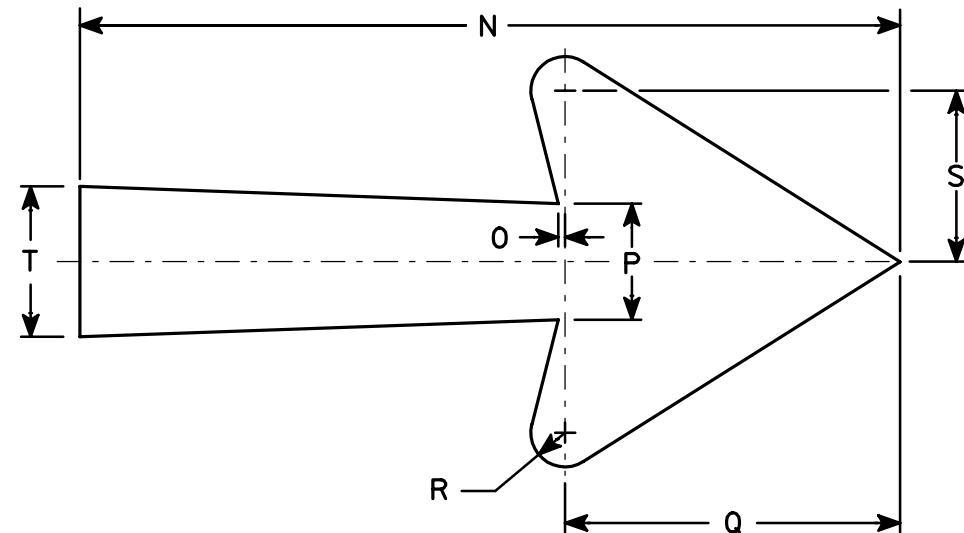
LEVELS ON - 2, 3, 5, 6, 10.



D7-56R

NOTES

1. Sign Is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Brown
Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. D7-56L is the same as D7-56R except the arrow is reversed.



Arrow Detail

Metric equivalent
for this sign is:

SIZE	
1	
2	1200 mm X 900 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	48	36	2 1/4		3/4	6	5 1/2	4 1/4	7	7 1/4	10 1/8	18 1/2	18 3/8	15	1/8	2 1/8	6 1/8	5/8	3 1/8	2 3/4							12.0	1.08
3																												
4																												
5																												

STATE PROJECT NUMBER:

STANDARD SIGN
D7-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Christa J. Speng
for State Traffic Engineer

DATE 1/10/02

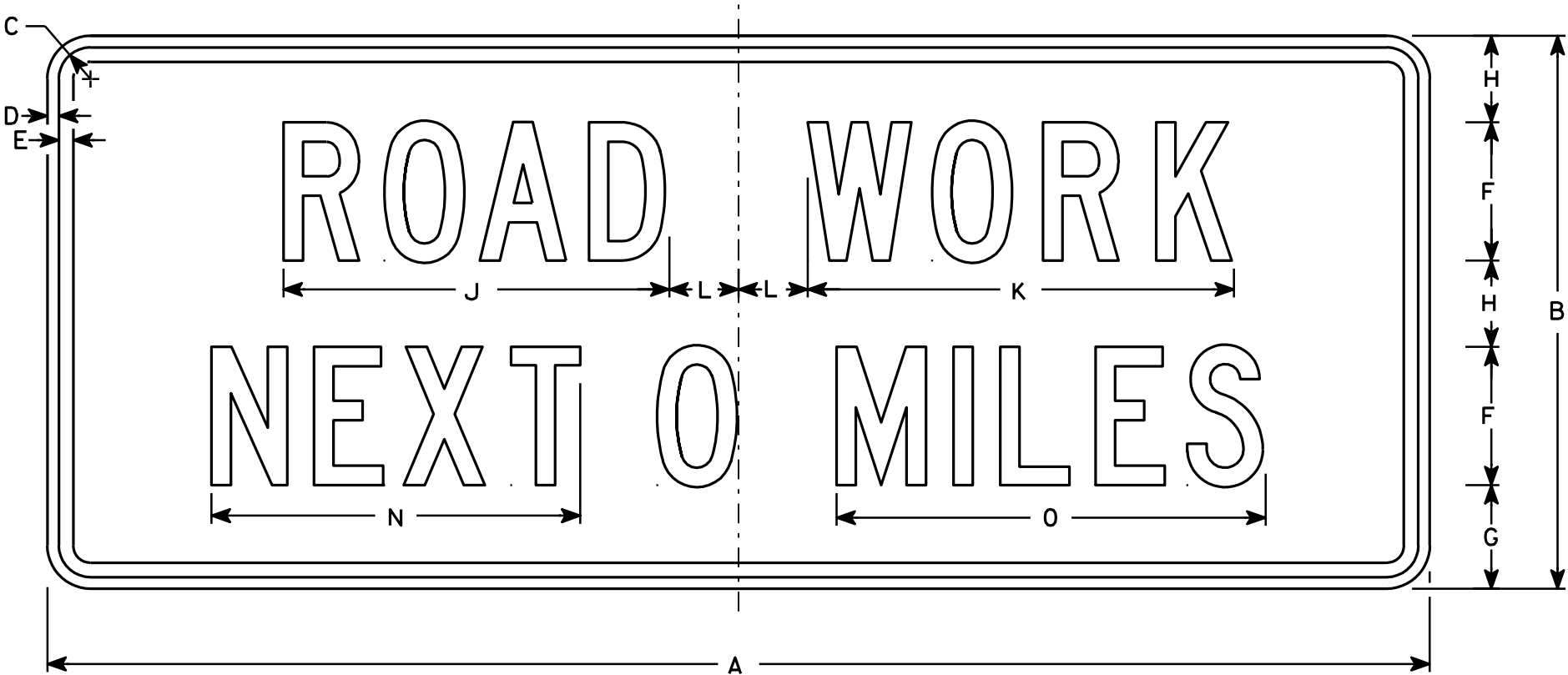
PLATE NO. D7-56.8

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 - Orange
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance



G20-1

Metric equivalent
for this sign is:

SIZE	
1	
2	1500 mm X 600 mm
3	
4	1500 mm X 600 mm
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10	.90
3																												
4	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10	.90
5																												

STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chris J. Spay
State Traffic Engineer

DATE 4/8/97

PLATE NO. G20-1.7

PROJECT NO:

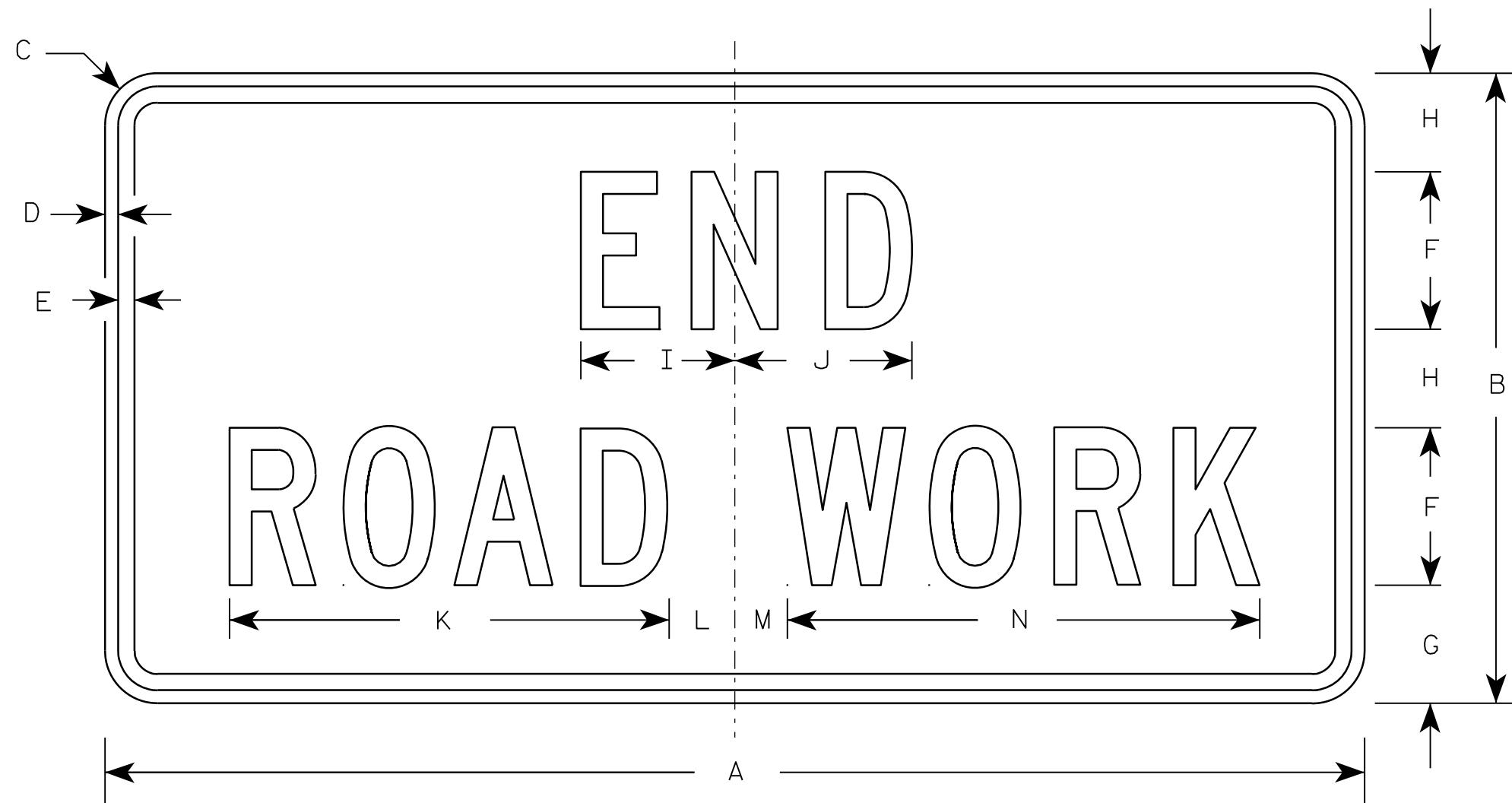
HWY:

COUNTY:

SHEET NO:

E

7



G20-2A

NOTES

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

Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN

G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

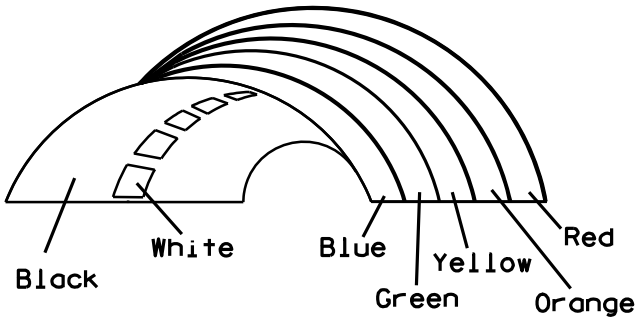
DATE 9/30/09 PLATE NO. G20-2A.8

7



* VARIES

Background Colors of Symbol*



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

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
 - Background - White
 - Message - (See Note 5)
- 3. Message Series - (See Note 6)
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Border - Blue
 - Line 1- Red
 - Line 2 - Black
 - Line 3-5 - Blue
- 6. Line 1- Dutch 8011L
 - Line 2 - Series E
 - Line 3-5 - Series C
- 7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

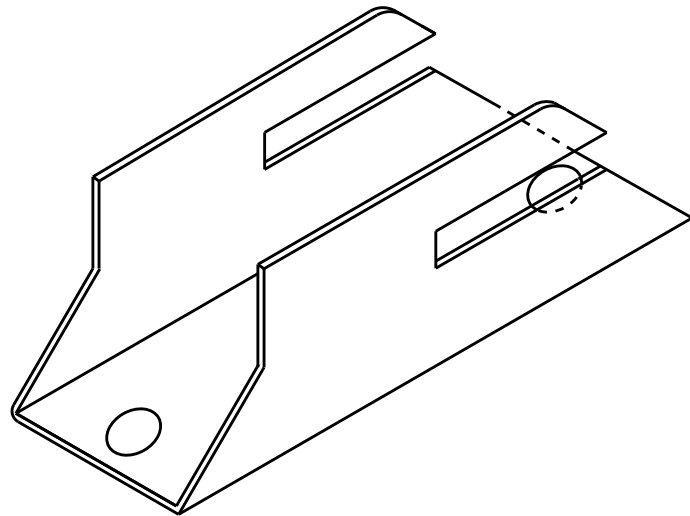
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

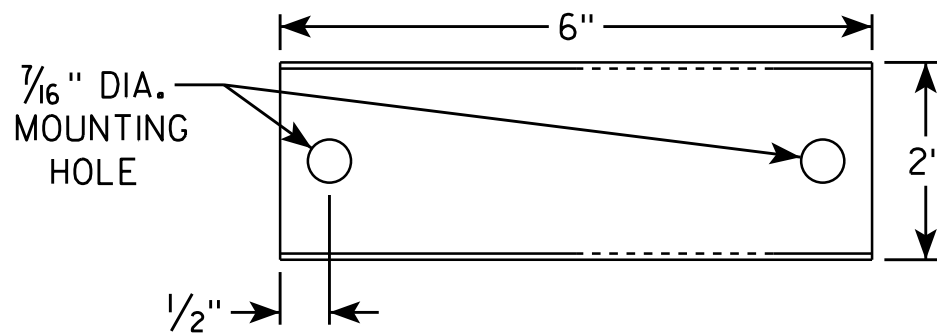
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/27/11 PLATE NO. I55-56.3

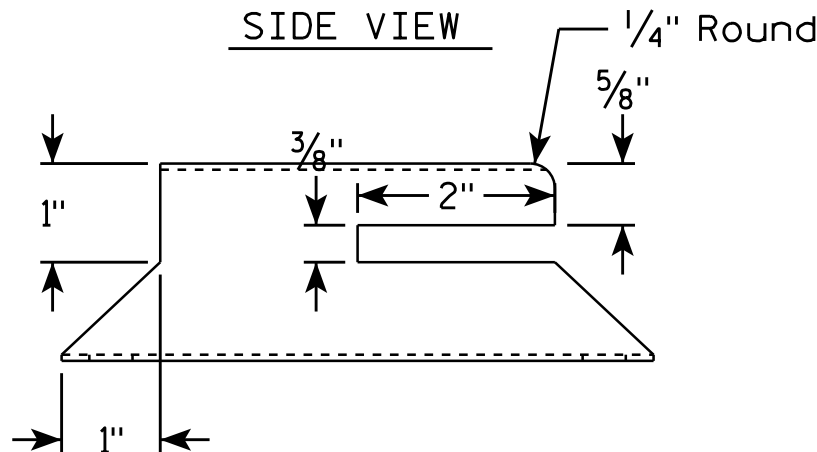
ISOMETRIC VIEW



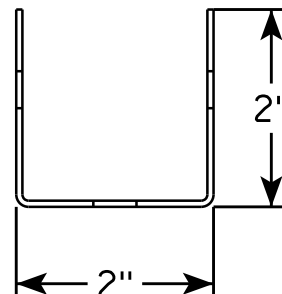
TOP VIEW



SIDE VIEW



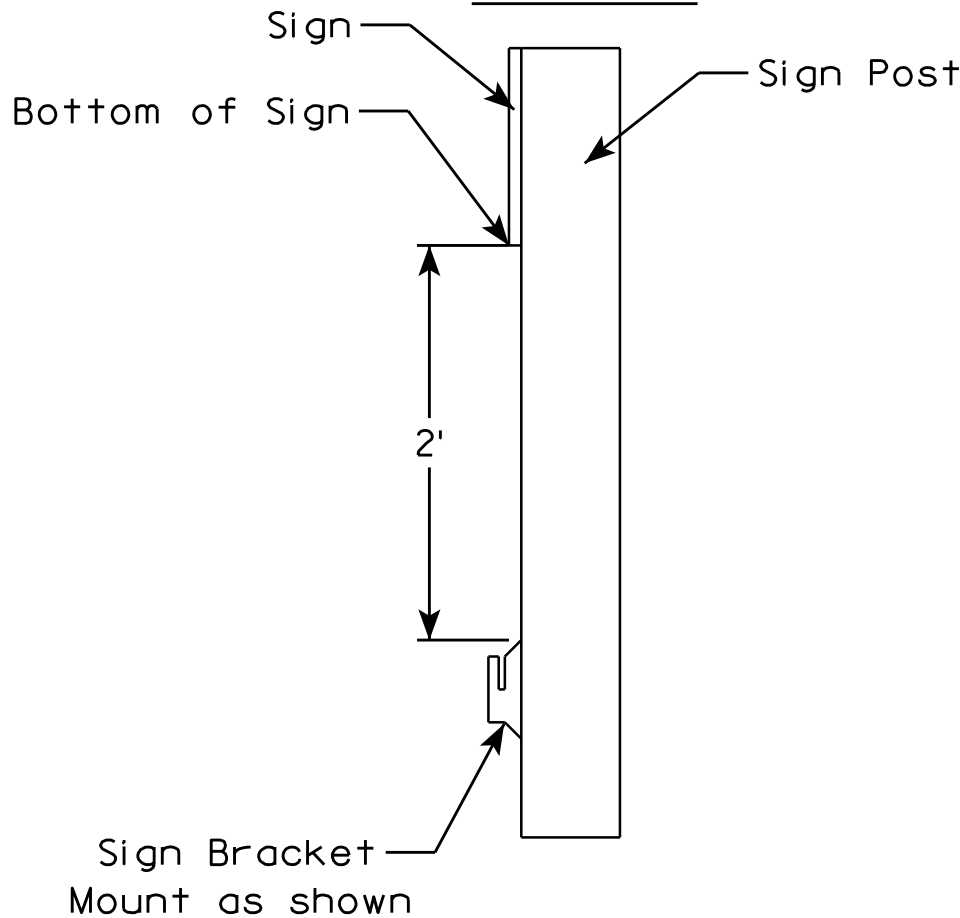
END VIEW



NOTES

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

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/26/16 PLATE NO. I55-56B.2

PROJECT NO:

HWY:

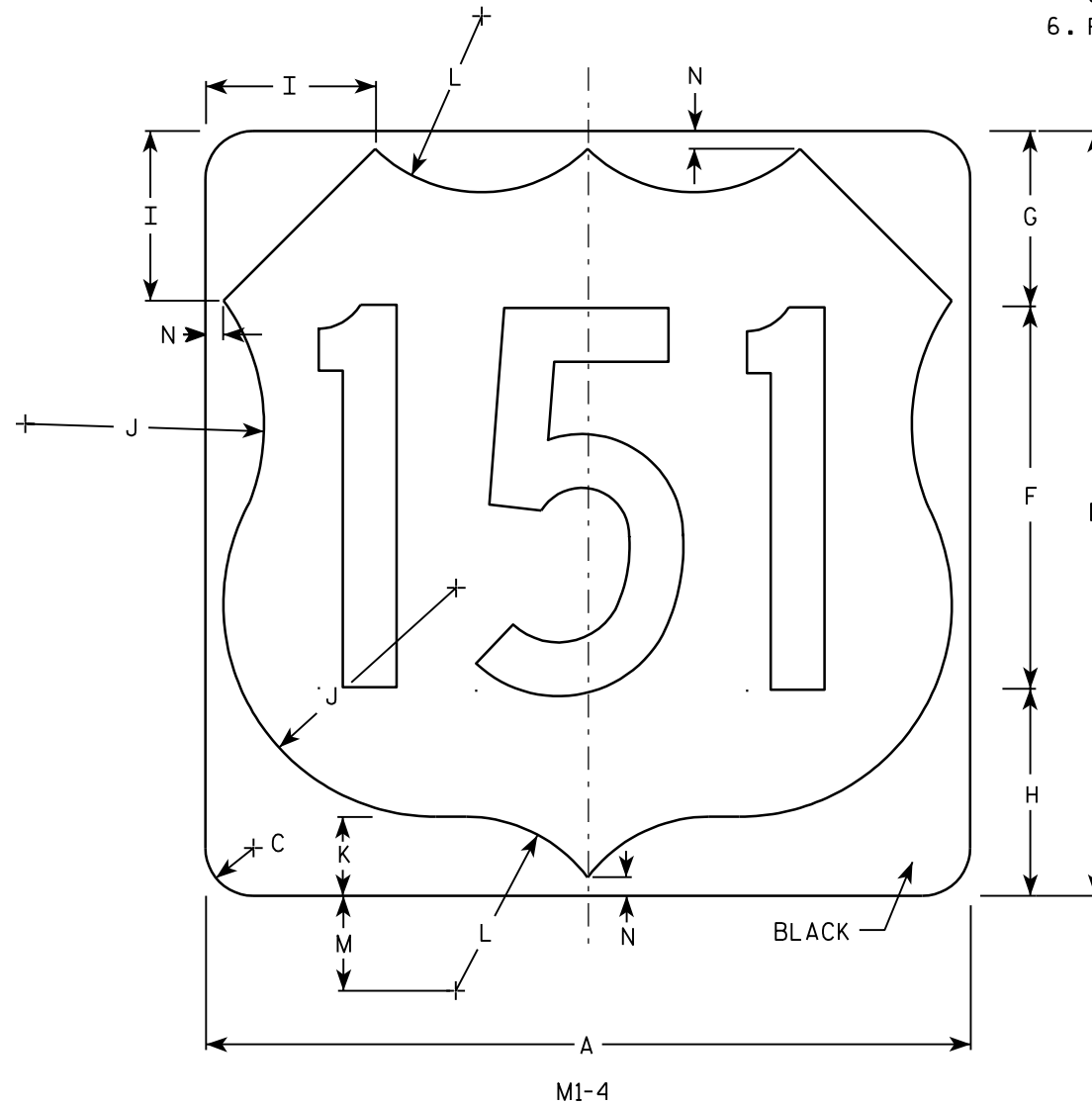
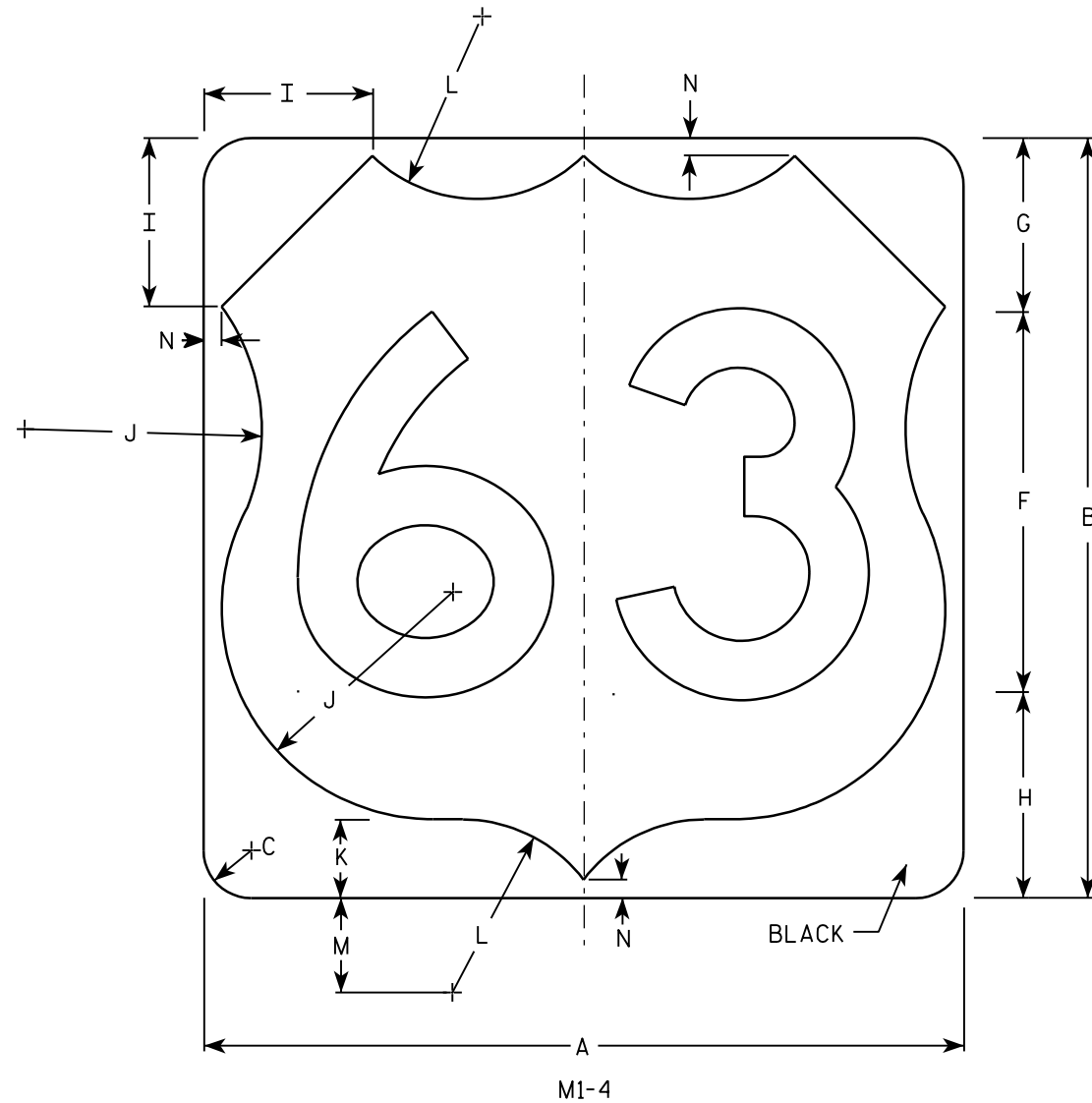
COUNTY:

SHEET NO:

E

NOTES

1. Sign is Type II - See Note 6 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 6
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust
spacing as per Plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or other temporary signs
Background - Reflective



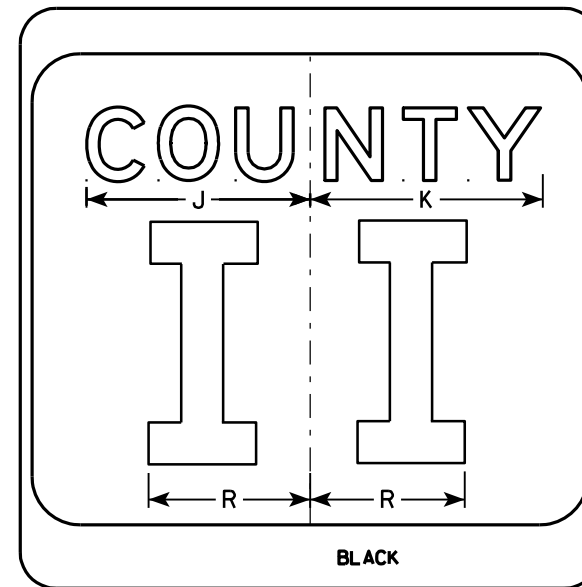
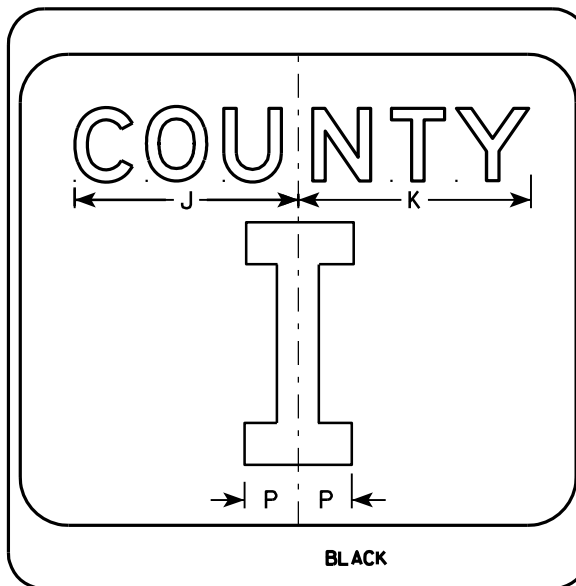
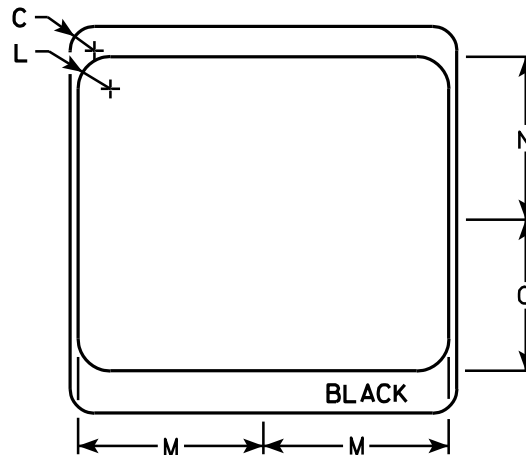
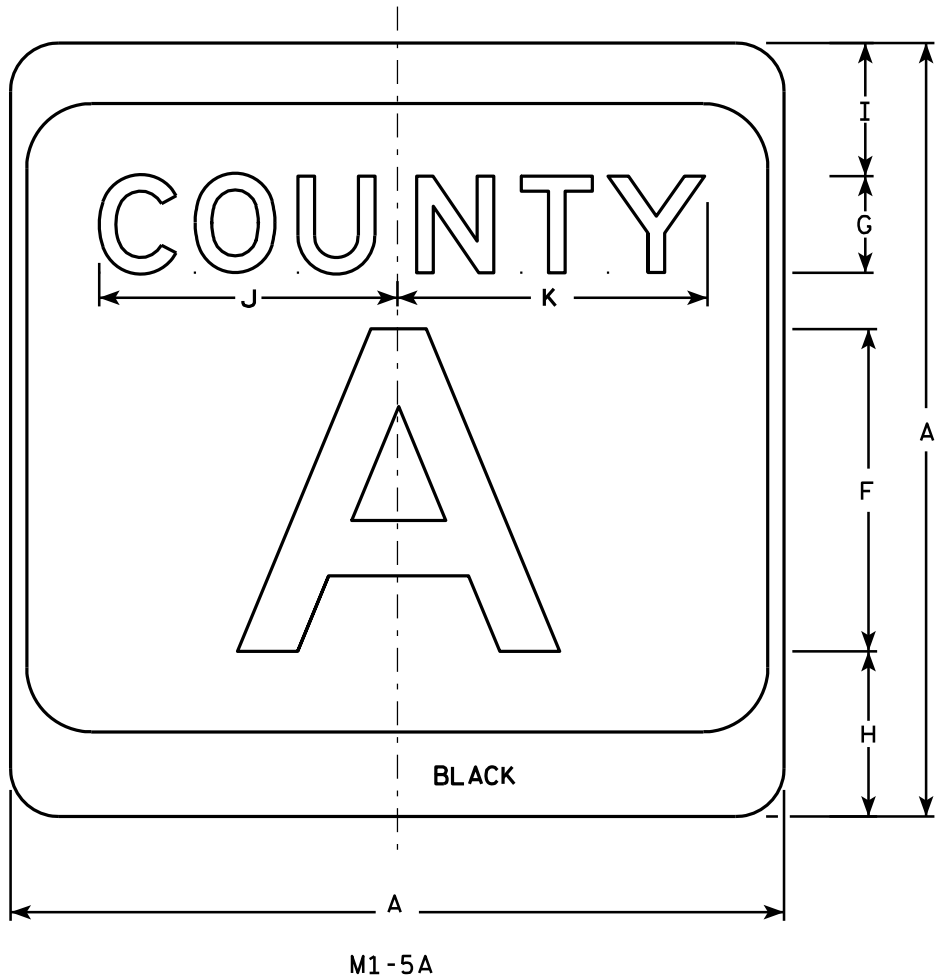
Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq sq. ft.	Area m ²
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

PROJECT NO: HWY: COUNTY: SHEET NO: E

7



NOTES

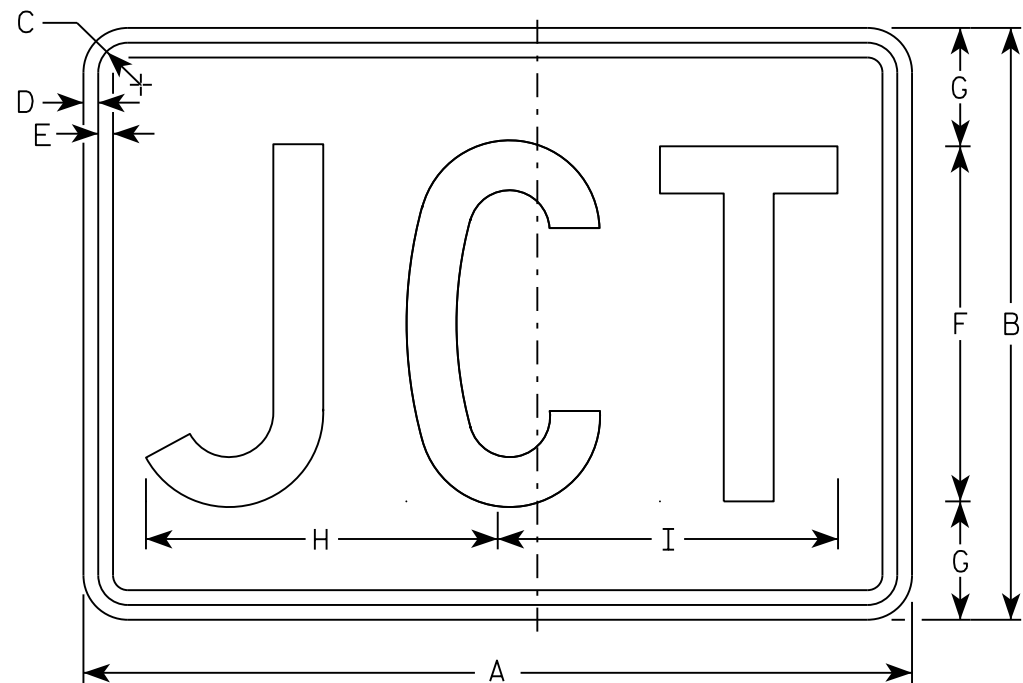
1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 7
Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders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

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

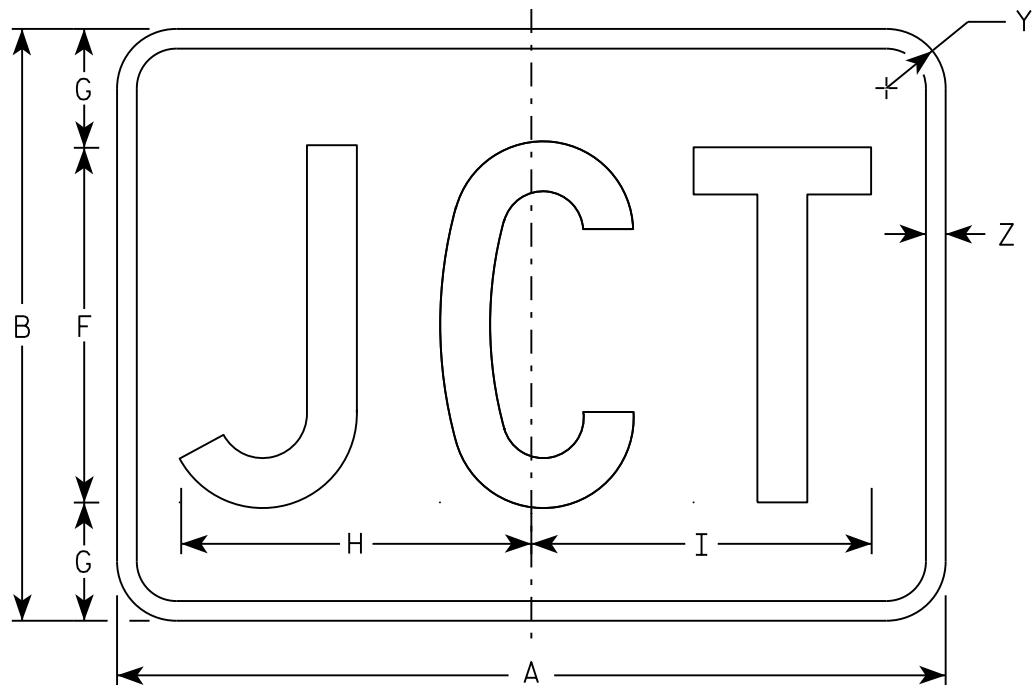
CTH MARKER	
M1-5A FOR ASSEMBLIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 9/27/11	PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
-------------	------	---------	-----------	---

7



M2-1
MM2-1
MP2-1



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

NOTES

- 1. Sign is Type II - Type H
- 2. Color:
 - Background - See note 5
 - Message - See note 5
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background - White
 Message - Black
 MB2-1 Background - Blue
 Message - White
 MK2-1 Background - Green
 Message - White
 MM2-1 Background - White
 Message - Green
 MN2-1 Background - Brown
 Message - White
 MP2-1 Background - White
 Message - Blue
 MR2-1 Background - Brown
 Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

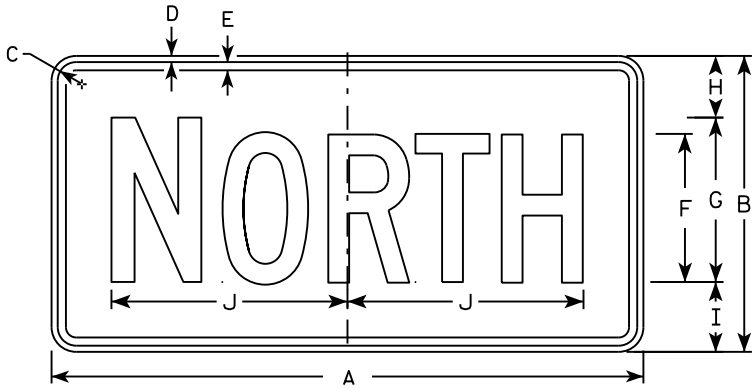
APPROVED

Matthew R. Rauch

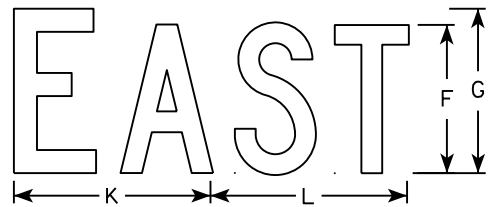
For State Traffic Engineer

DATE 10/15/15

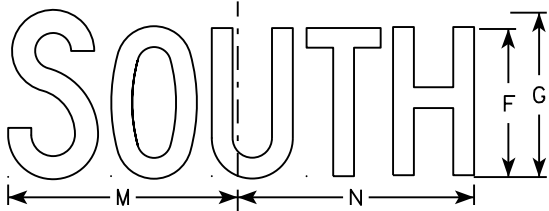
PLATE NO. M2-1.12



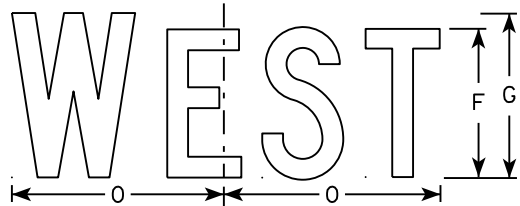
M3-1
MM3-1
MP3-1



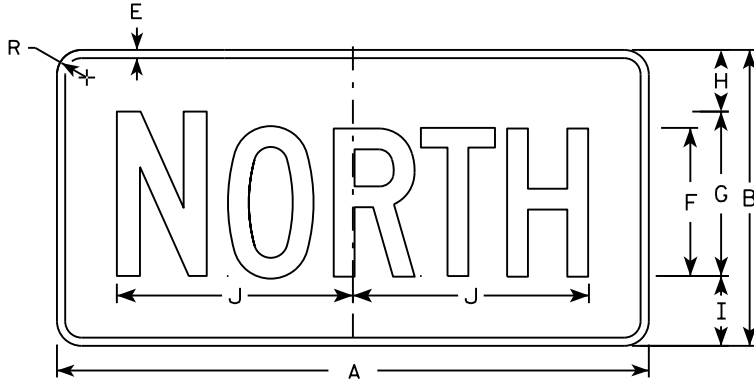
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MM3-2
MP3-2



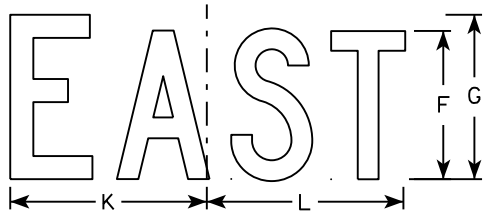
M3-3
MM3-3
MP3-3



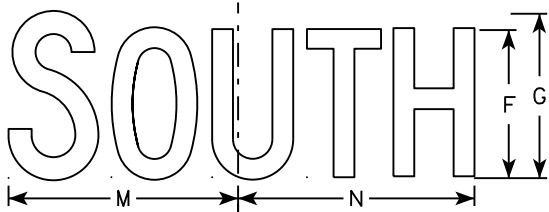
M3-4
MM3-4
MP3-4



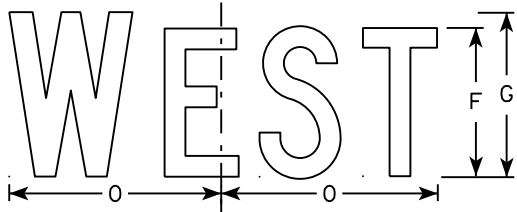
MB3-1
MK3-1
MN3-1



MB3-2
MK3-2
MN3-2



MB3-3
MK3-3
MN3-3



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White
MK3-1 thru MK3-4 Background - Green
Message - White
MM3-1 thru MM3-4 Background - White
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White
MP3-1 thru MP3-4 Background - White
Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

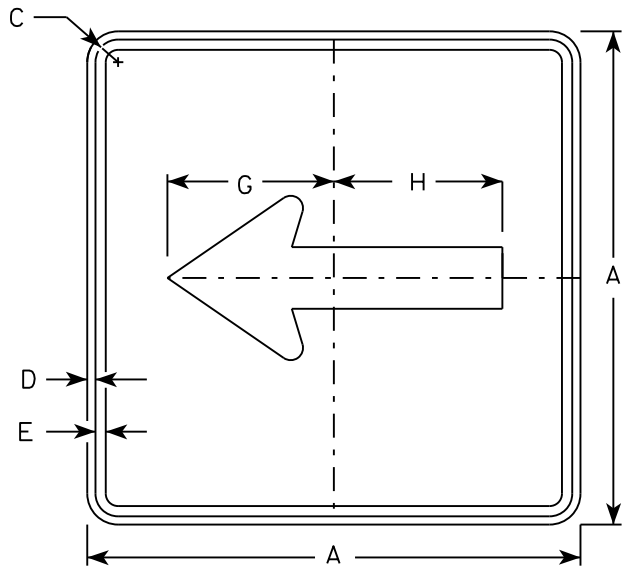
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8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

STANDARD SIGNS
M3-1 thru M3-4
SERIES

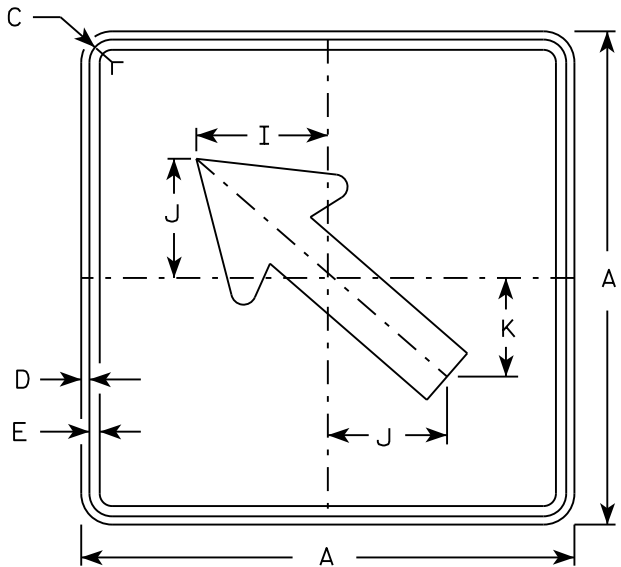
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

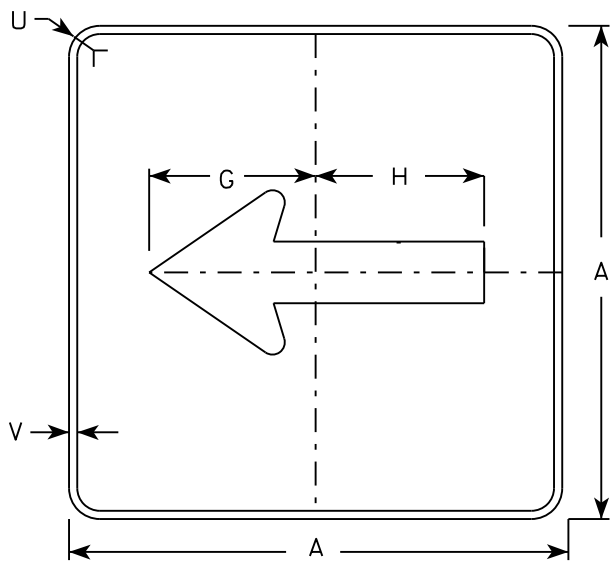
DATE 10/15/15 PLATE NO. M3-1.14



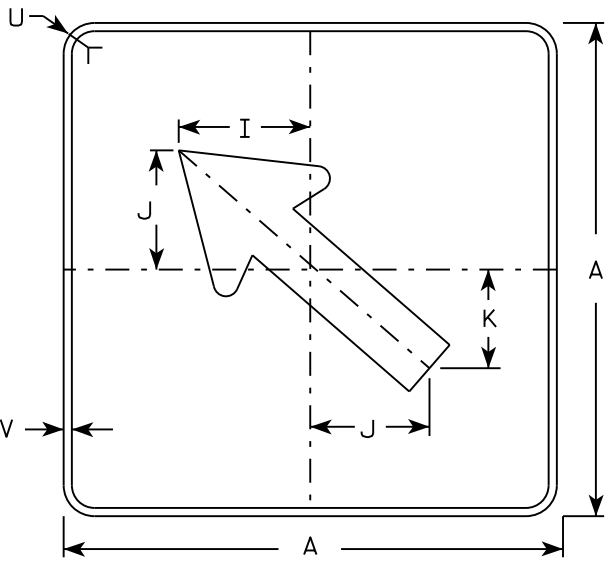
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



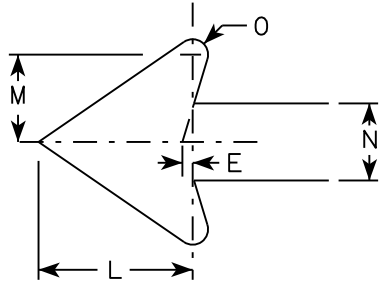
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



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



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



NOTES

- 1. Signs are Type II - Type H except as Shown
- 2. Color:
Background - See note 4
Message - See note 4
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background - White
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White
MK6-1 and MK6-2 Background - Green
Message - White
MM6-1 and MM6-2 Background - White
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White
M06-1 and M06-2 Background - Orange - Type F Reflective
Message - Black
MP6-1 and MP6-2 Background - White
Message - Blue
MR6-1 and MR6-2 Background - Brown
Message - Yellow

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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

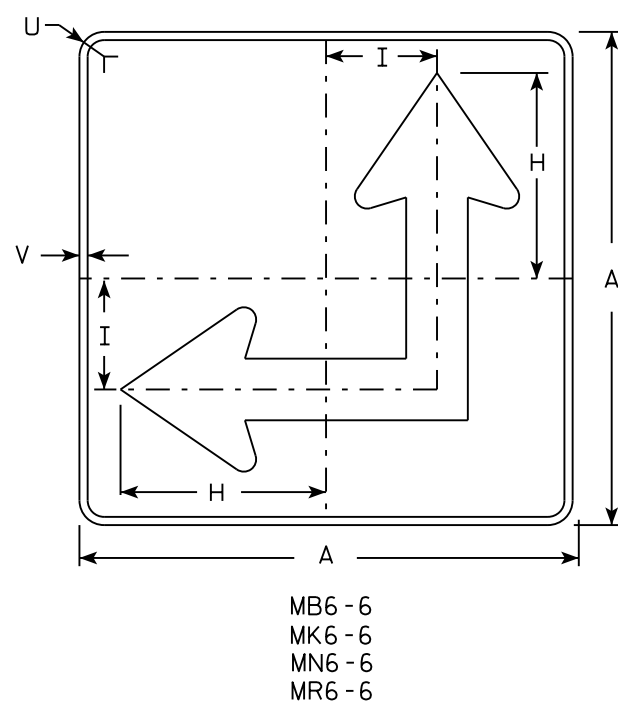
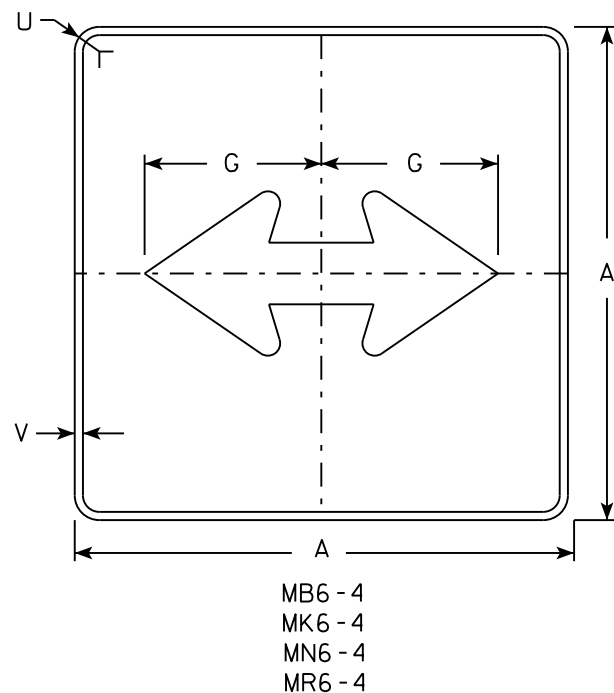
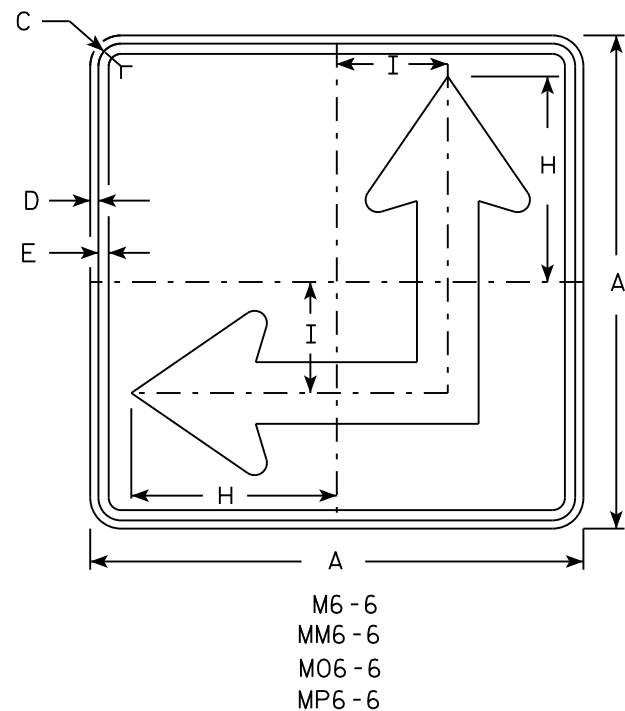
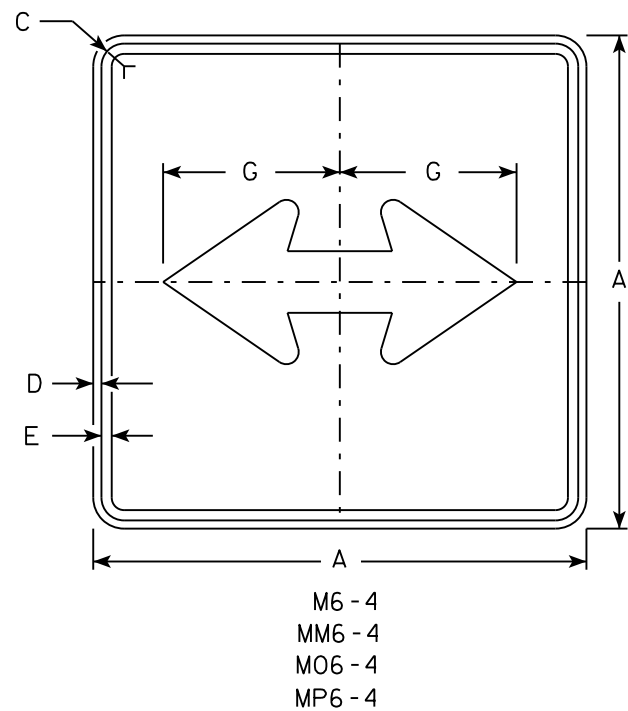
E

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

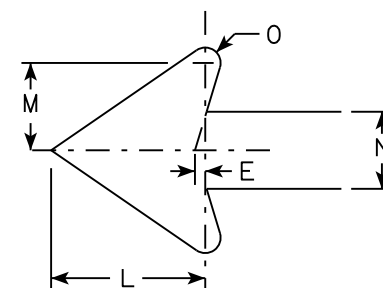
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See Note 4
Message - See Note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M6-4 and M6-6 Background - White
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White
MK6-4 and MK6-6 Background - Green
Message - White
MM6-4 and MM6-6 Background - White
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White
M06-4 and M06-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and right.



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

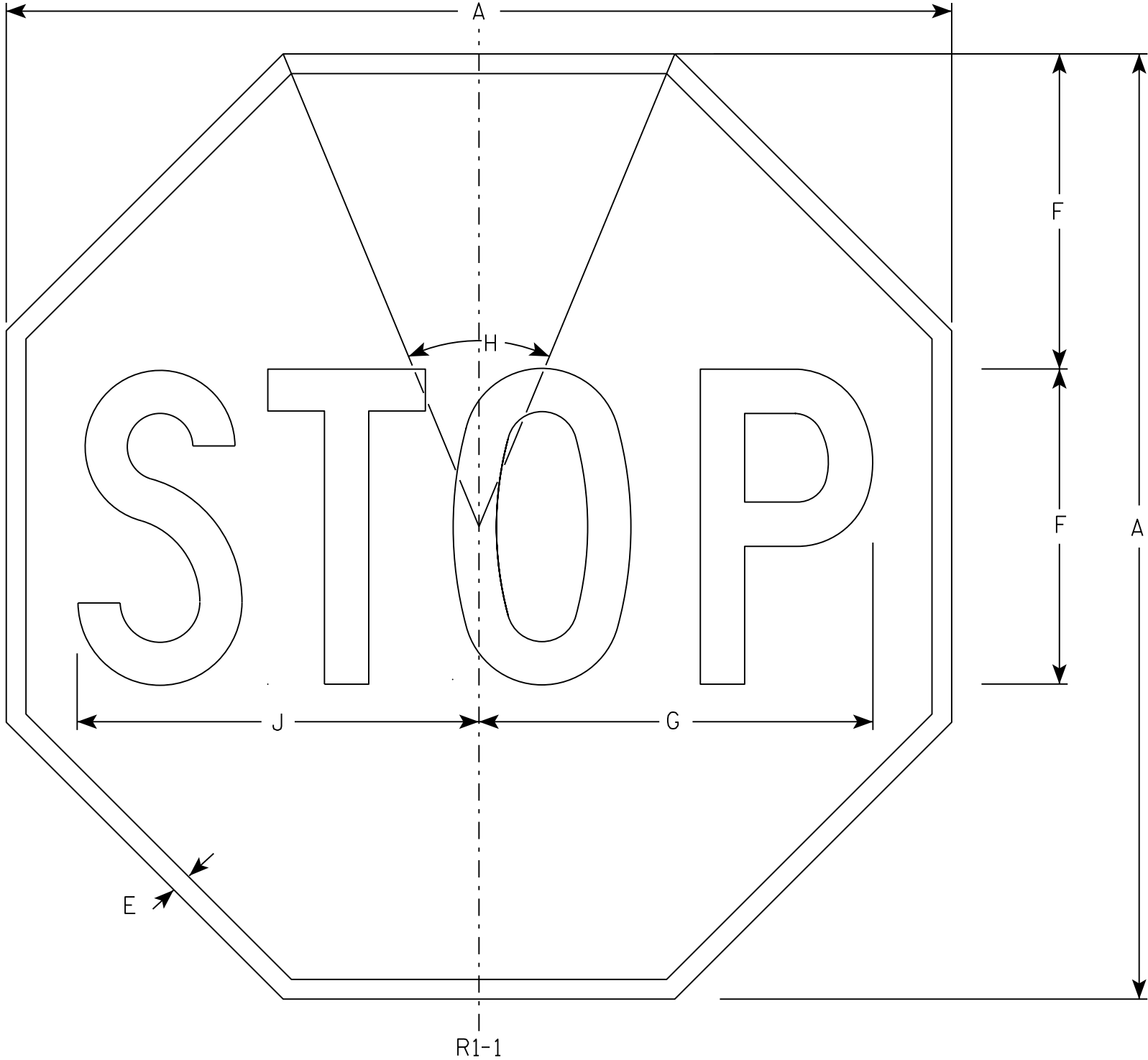
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-4.10



NOTES

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

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

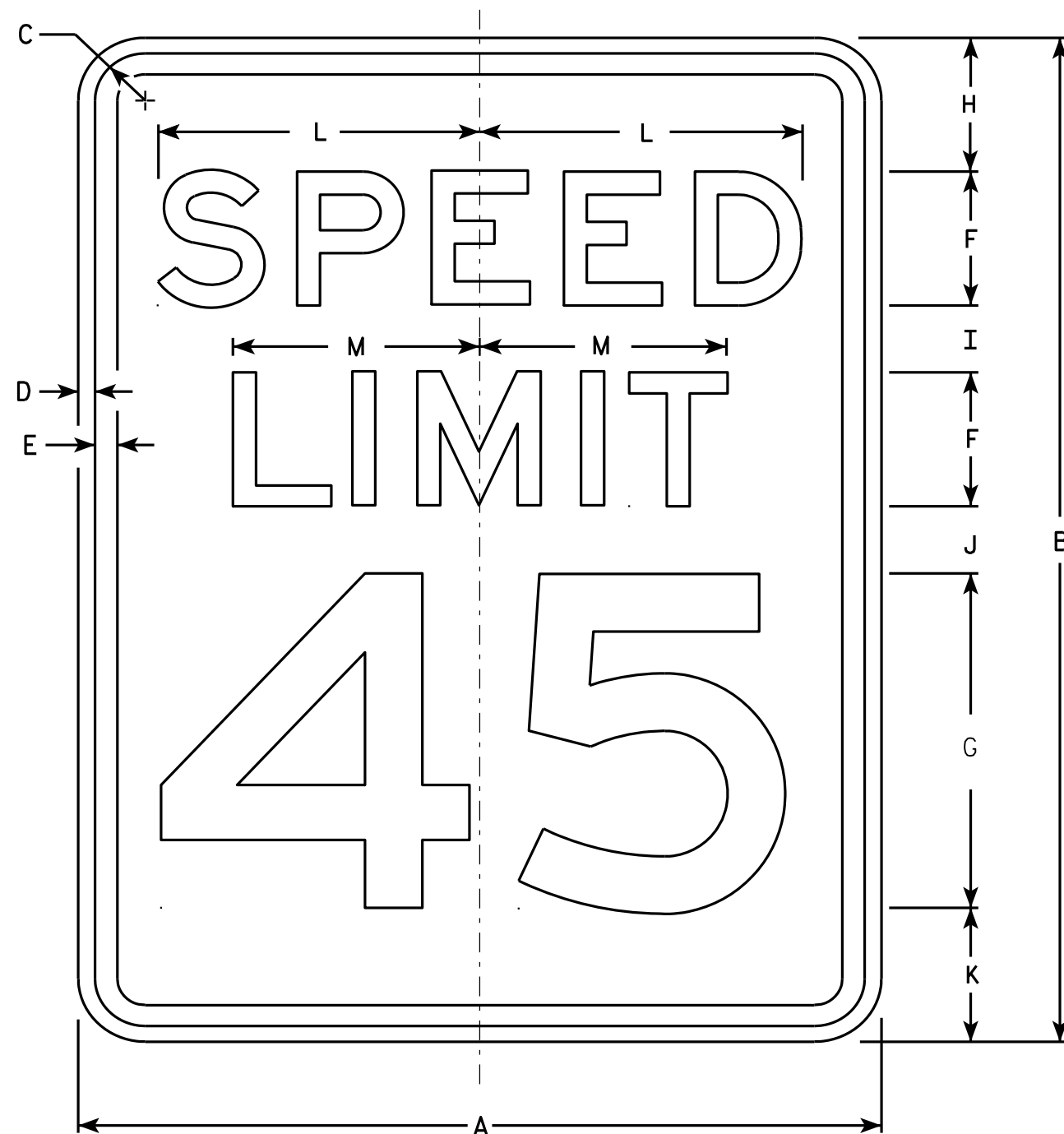
STANDARD SIGN

R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

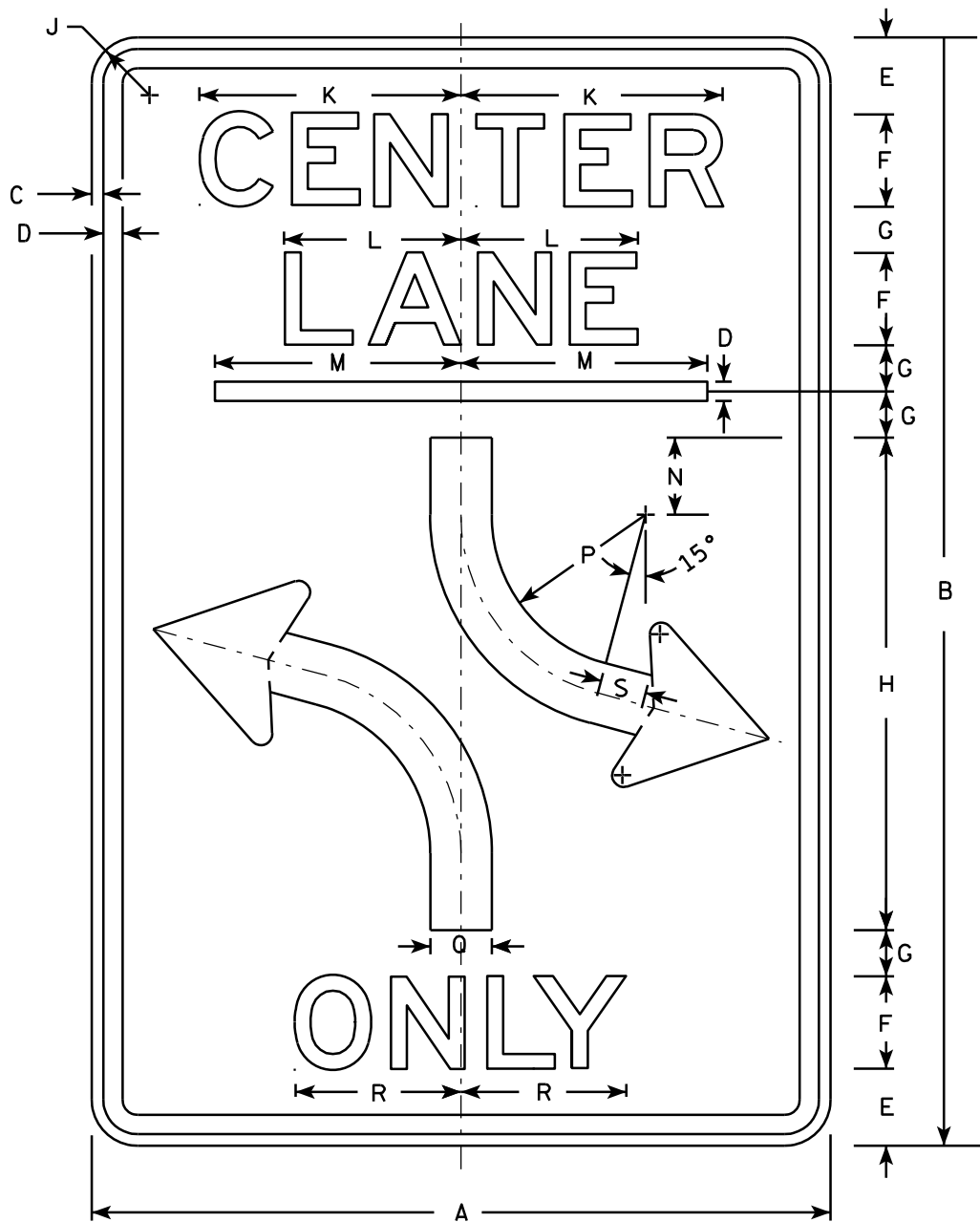
R2-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer
DATE 5/26/10 PLATE NO. R2-1.13

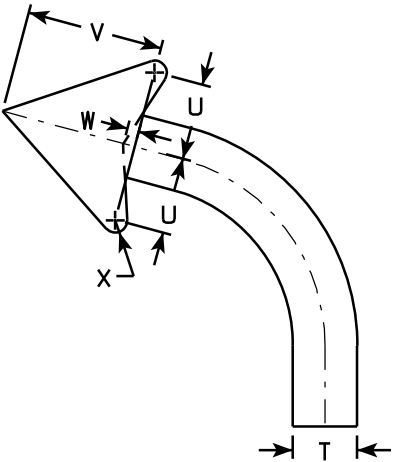
PROJECT NO: HWY: COUNTY: SHEET NO: E



R3-9B

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	$\frac{3}{8}$	$\frac{1}{2}$	2 $\frac{1}{2}$	3	1 $\frac{1}{2}$	16		1 $\frac{1}{2}$	8 $\frac{1}{2}$	5 $\frac{3}{4}$	8	2 $\frac{1}{2}$		6	2	5 $\frac{1}{8}$	1 $\frac{1}{2}$		2 $\frac{3}{8}$	4 $\frac{3}{8}$	$\frac{3}{8}$				6.0
2M	24	36	$\frac{3}{8}$	$\frac{1}{2}$	2 $\frac{1}{2}$	3	1 $\frac{1}{2}$	16		1 $\frac{1}{2}$	8 $\frac{1}{2}$	5 $\frac{3}{4}$	8	2 $\frac{1}{2}$		6	2	5 $\frac{1}{8}$	1 $\frac{1}{2}$		2 $\frac{3}{8}$	4 $\frac{3}{8}$	$\frac{3}{8}$				6.0
3	36	48	$\frac{5}{8}$	$\frac{7}{8}$	3 $\frac{1}{2}$	5	1 $\frac{1}{2}$	20		2 $\frac{1}{4}$	14 $\frac{1}{8}$	9 $\frac{1}{2}$	12	3		4	3	9 $\frac{7}{8}$	2		3 $\frac{1}{2}$	6 $\frac{1}{8}$	$\frac{1}{2}$				12.0
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

STANDARD SIGN
R3-9B

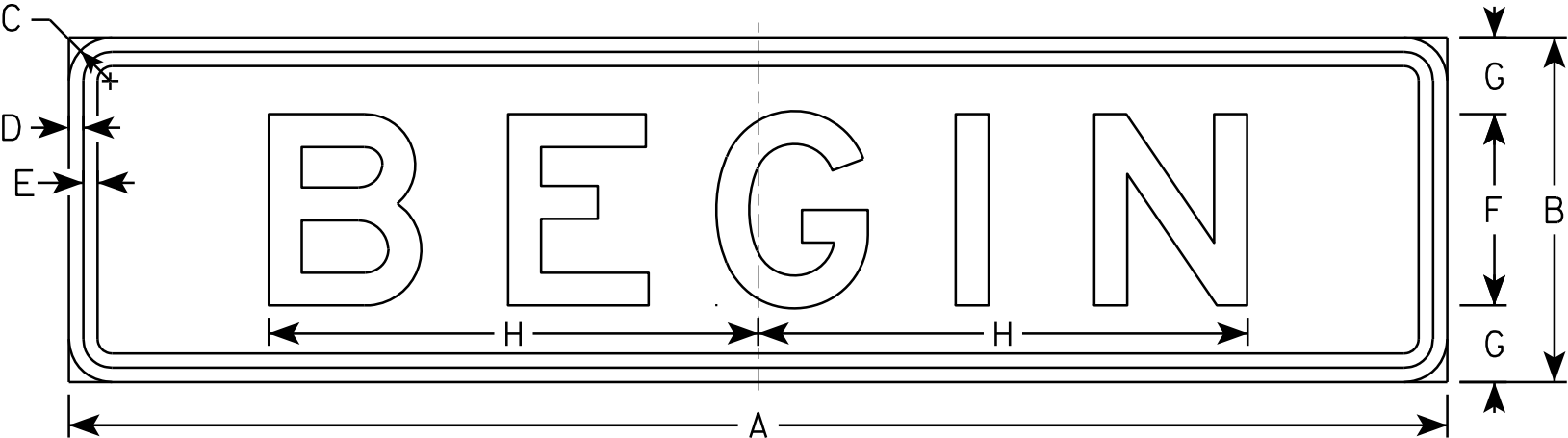
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

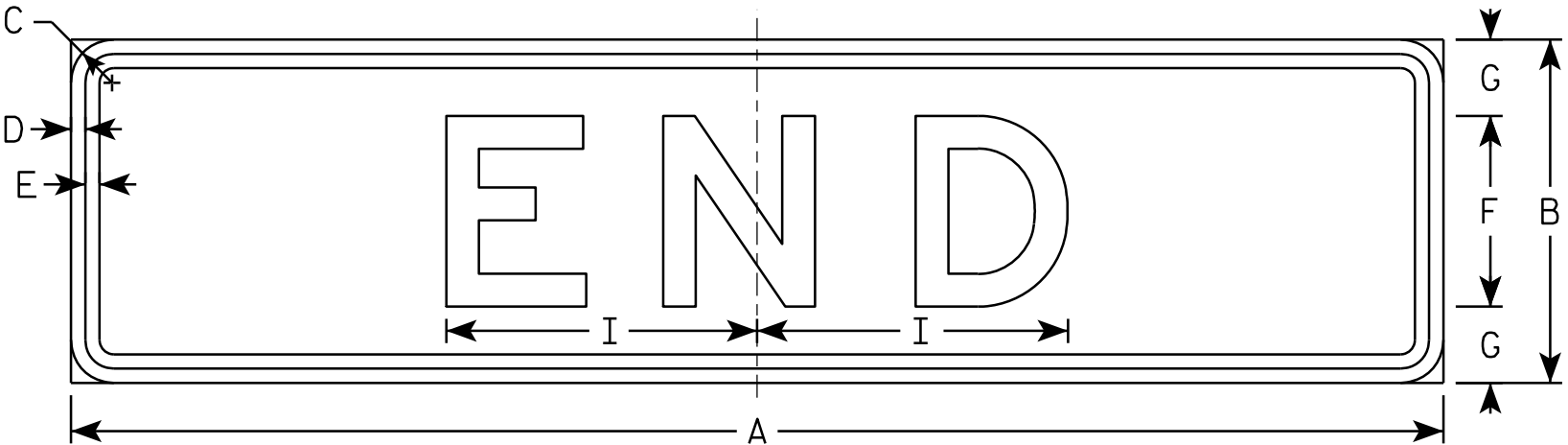
DATE 3/24/2011 PLATE NO. R3-9B.5

NOTES

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



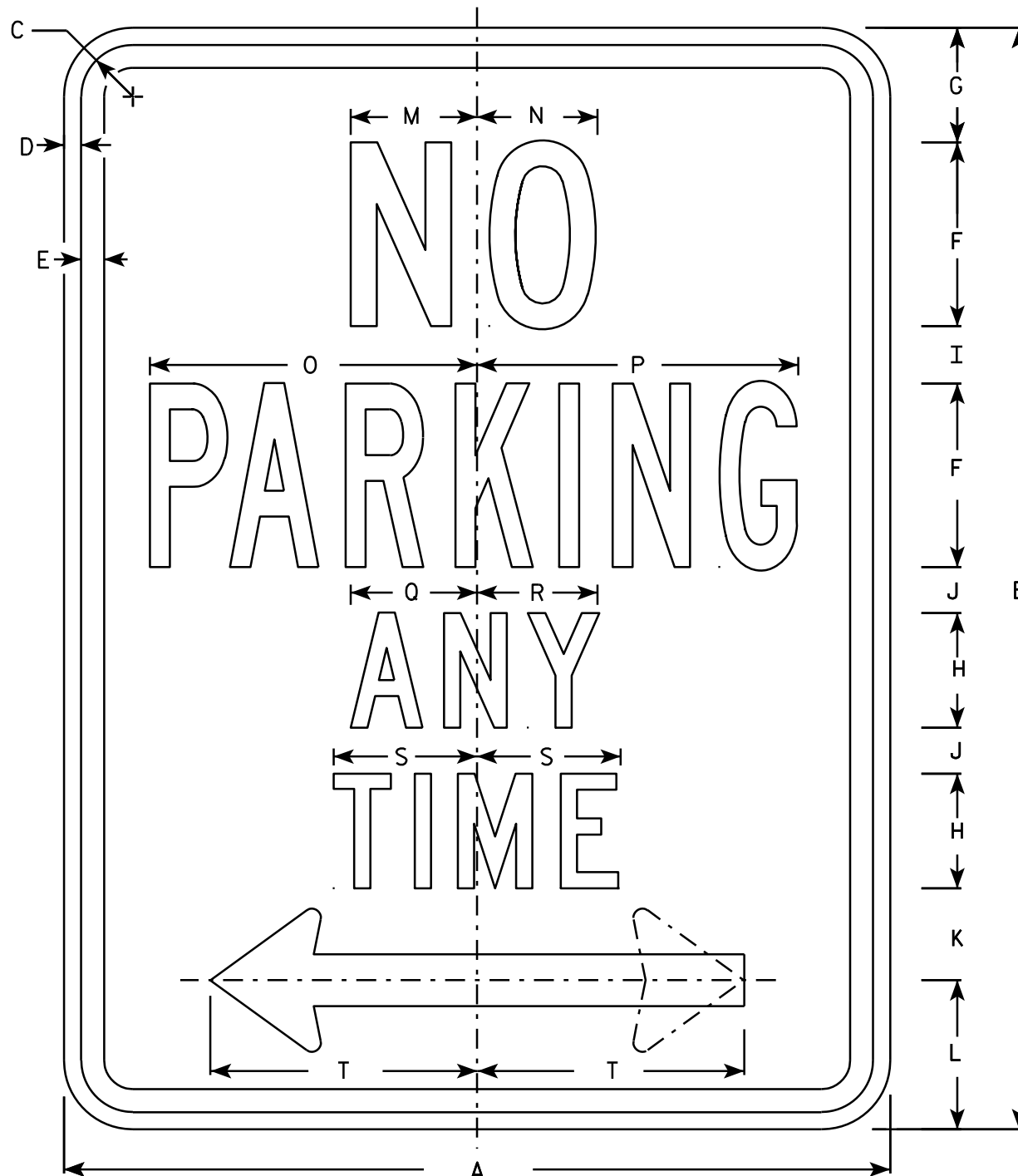
R3-9C



R3-9D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	6	1 1/8	3/8	3/8	3	1 1/2	7 3/4	4 7/8																		1.0
2M	24	6	1 1/8	3/8	3/8	3	1 1/2	7 3/4	4 7/8																		1.0
3	36	9	1 1/8	3/8	3/8	5	2	12 3/4	8 1/8																		1.86
4																											
5																											

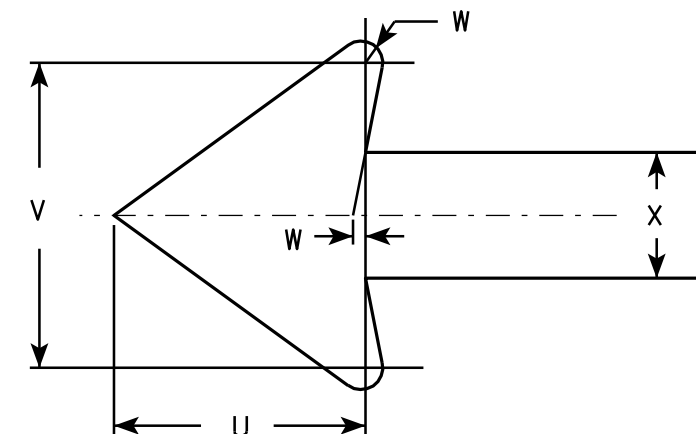
STANDARD SIGN R3-9C & R3-9D	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 3/24/2011	PLATE NO. R3-9C.2



R7-1

NOTES

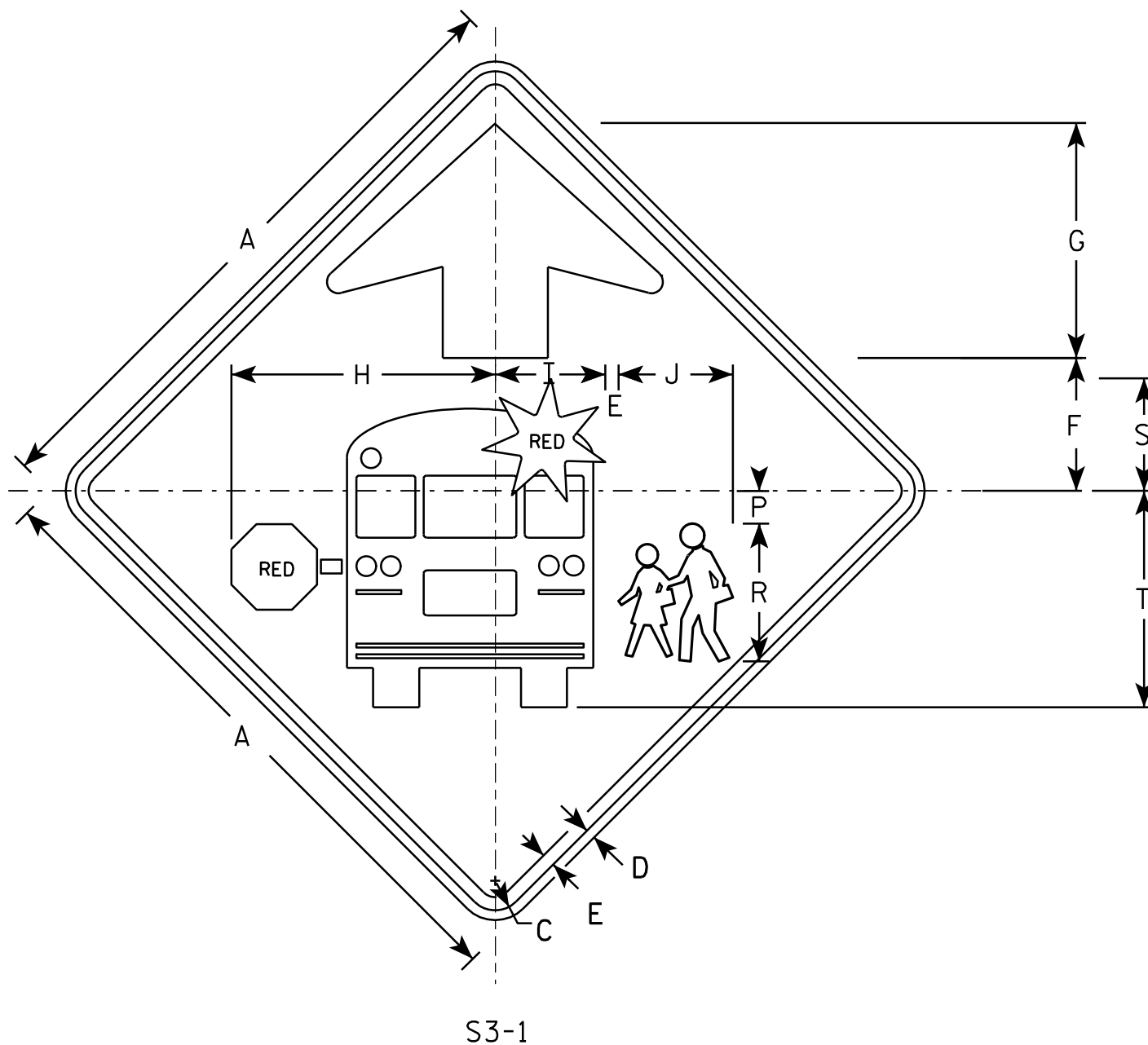
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded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



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

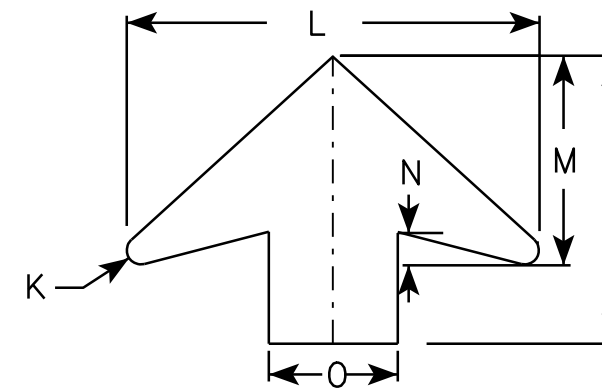
STANDARD SIGN R7-1	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 3/31/2011	PLATE NO. R7-1.9

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

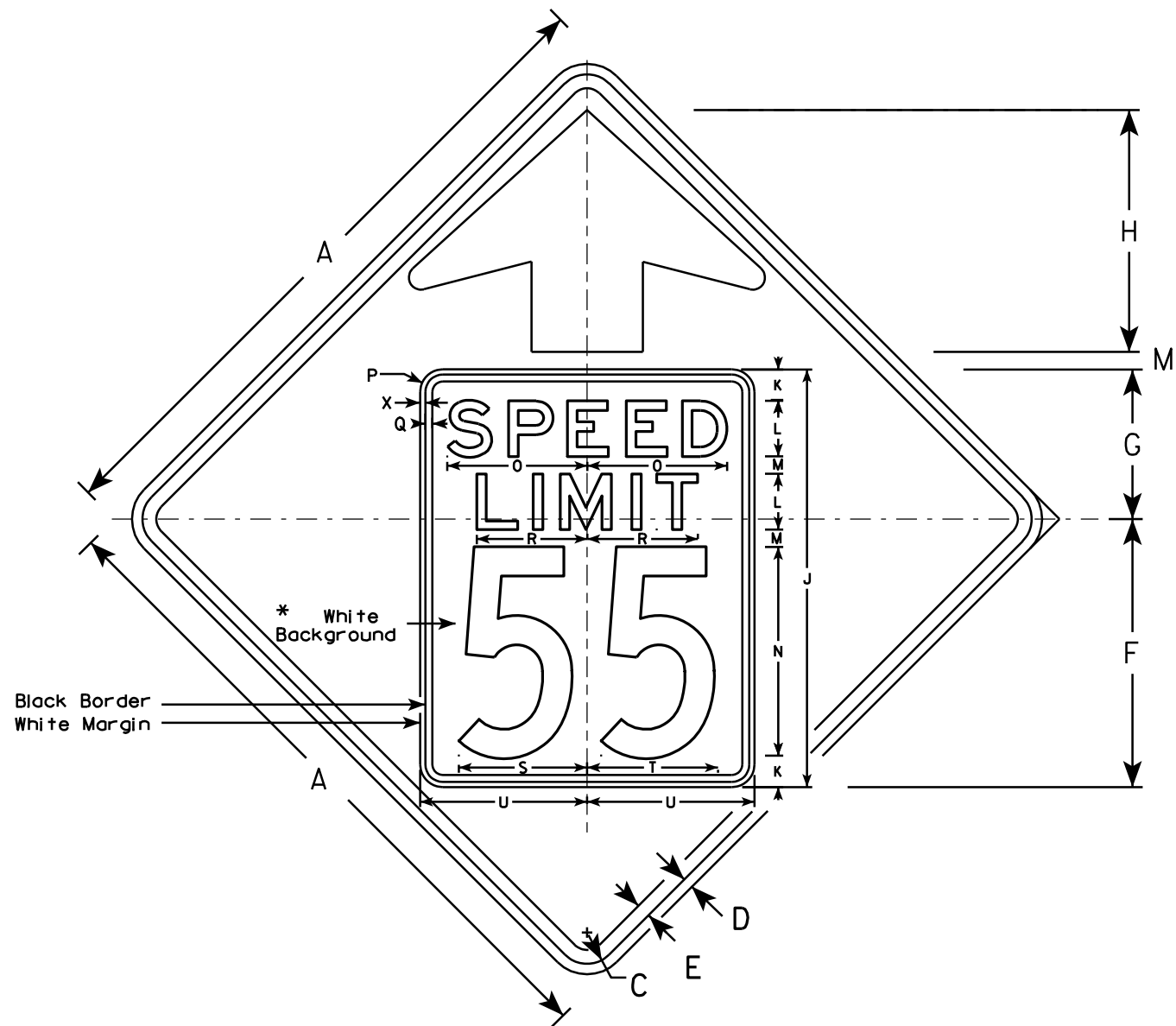
1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 - Background - YELLOW-GREEN
 - Message - BLACK except as noted
 - Circles except PEDS- RED BACKGROUND
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

[illegible]

STANDARD SIGN	
S3-1	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<u>Matthew R. Rauch</u> for State Traffic Engineer
DATE <u>6/8/10</u>	PLATE NO. <u>S3-16</u>

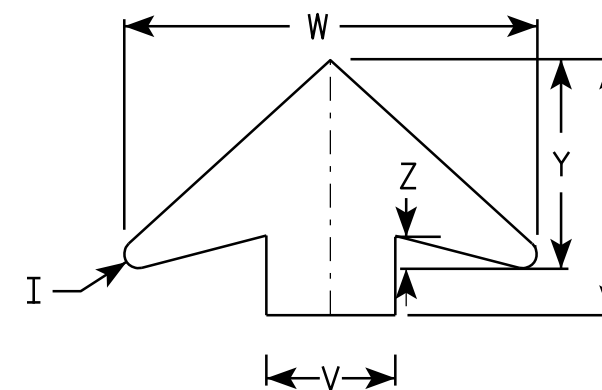


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
Background - YELLOW*
Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5⁄8	5⁄8	3⁄4	14 1⁄2	9 1⁄2	11 1⁄2	5⁄8	24	2	3	1	12	7 1⁄8	1 1⁄2	3⁄8	5 3⁄4	7 1⁄4	7 1⁄8	9	6	19 1⁄4	3⁄8	9 3⁄4	1 5⁄8	9.0
2M	36		1 5⁄8	5⁄8	3⁄4	14 1⁄2	9 1⁄2	11 1⁄2	5⁄8	24	2	3	1	12	7 1⁄8	1 1⁄2	3⁄8	5 3⁄4	7 1⁄4	7 1⁄8	9	6	19 1⁄4	3⁄8	9 3⁄4	1 5⁄8	9.0
3	36		1 5⁄8	5⁄8	3⁄4	14 1⁄2	9 1⁄2	11 1⁄2	5⁄8	24	2	3	1	12	7 1⁄8	1 1⁄2	3⁄8	5 3⁄4	7 1⁄4	7 1⁄8	9	6	19 1⁄4	3⁄8	9 3⁄4	1 5⁄8	9.0
4	48		2 1⁄4	3⁄4	1	19 1⁄4	10 3⁄4	17 3⁄8	7⁄8	30	2 1⁄4	4	1 1⁄4	15	10	1 5⁄8	1⁄2	8	9 1⁄4	9 3⁄8	12	8	25 5⁄8	3⁄8	13	2	16.0
5	48		2 1⁄4	3⁄4	1	19 1⁄4	10 3⁄4	17 3⁄8	7⁄8	30	2 1⁄4	4	1 1⁄4	15	10	1 5⁄8	1⁄2	8	9 1⁄4	9 3⁄8	12	8	25 5⁄8	3⁄8	13	2	16.0

STANDARD SIGN

W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

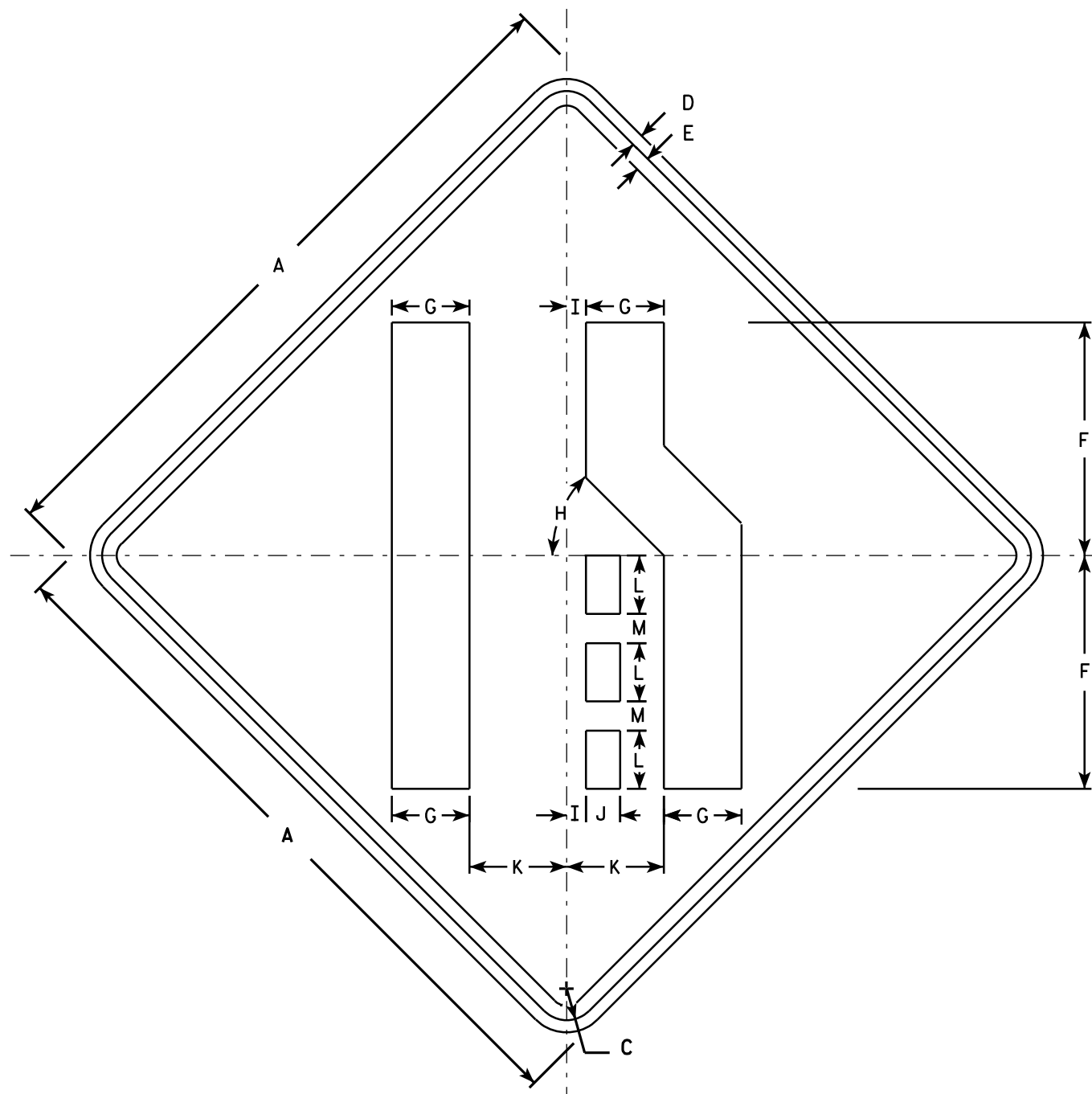
DATE 5/29/12

PLATE NO. W3-5.5

PROJECT NO:

SHEET NO:

E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbols is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN W4-2

WISCONSIN DEPT OF TRANSPORTATION

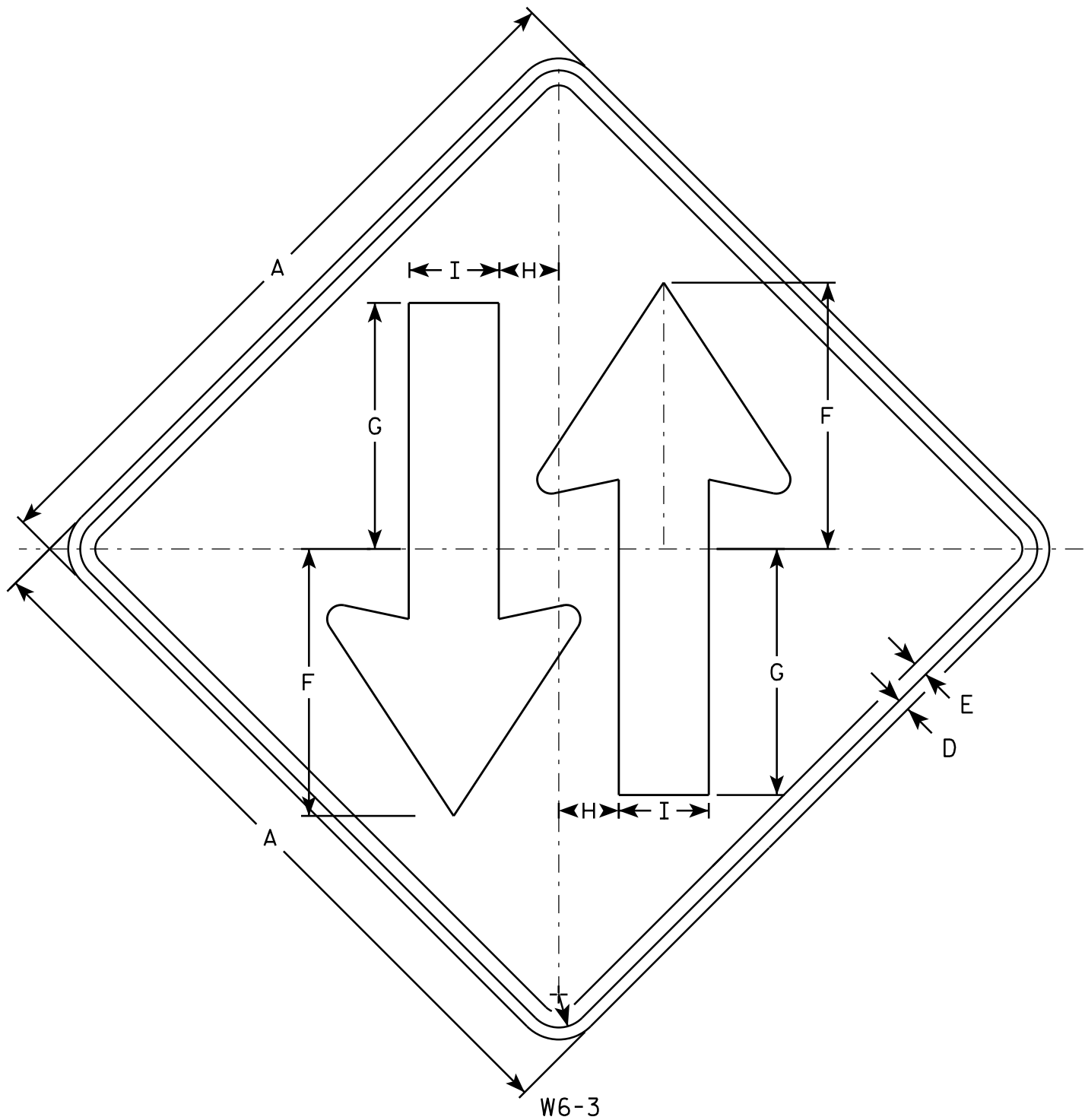
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO:

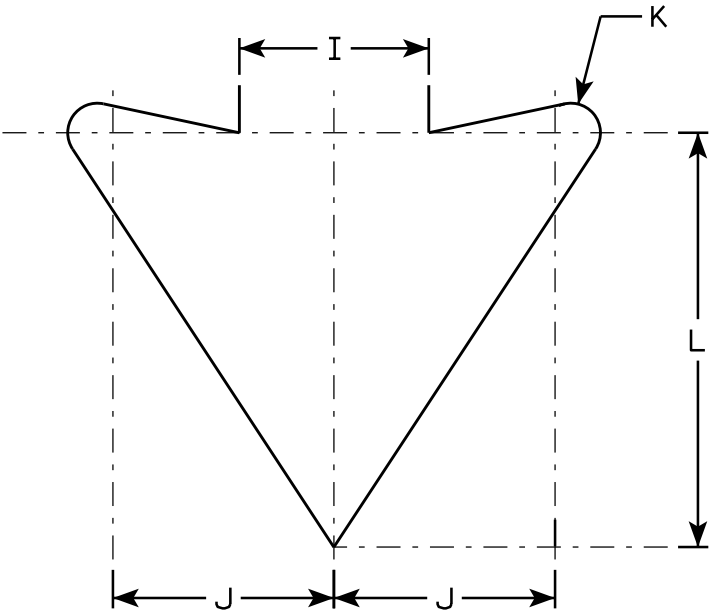
E



W6-3

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.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

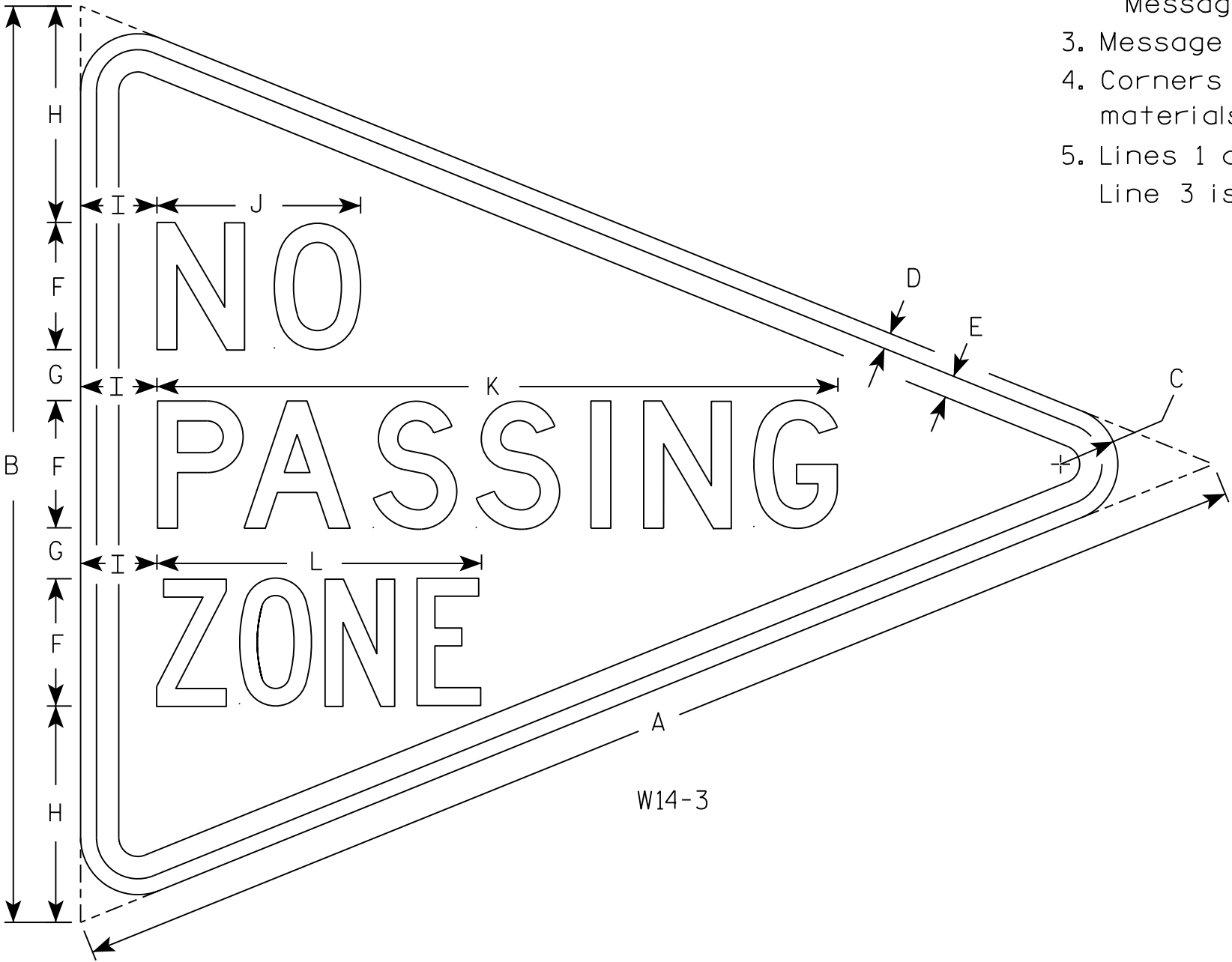
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE NO. W6-3.11

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - See note 5
- 4. Corners and borders shall be rounded on all base materials for this sign.
- 5. Lines 1 and 2 are Series D.
Line 3 is series C.



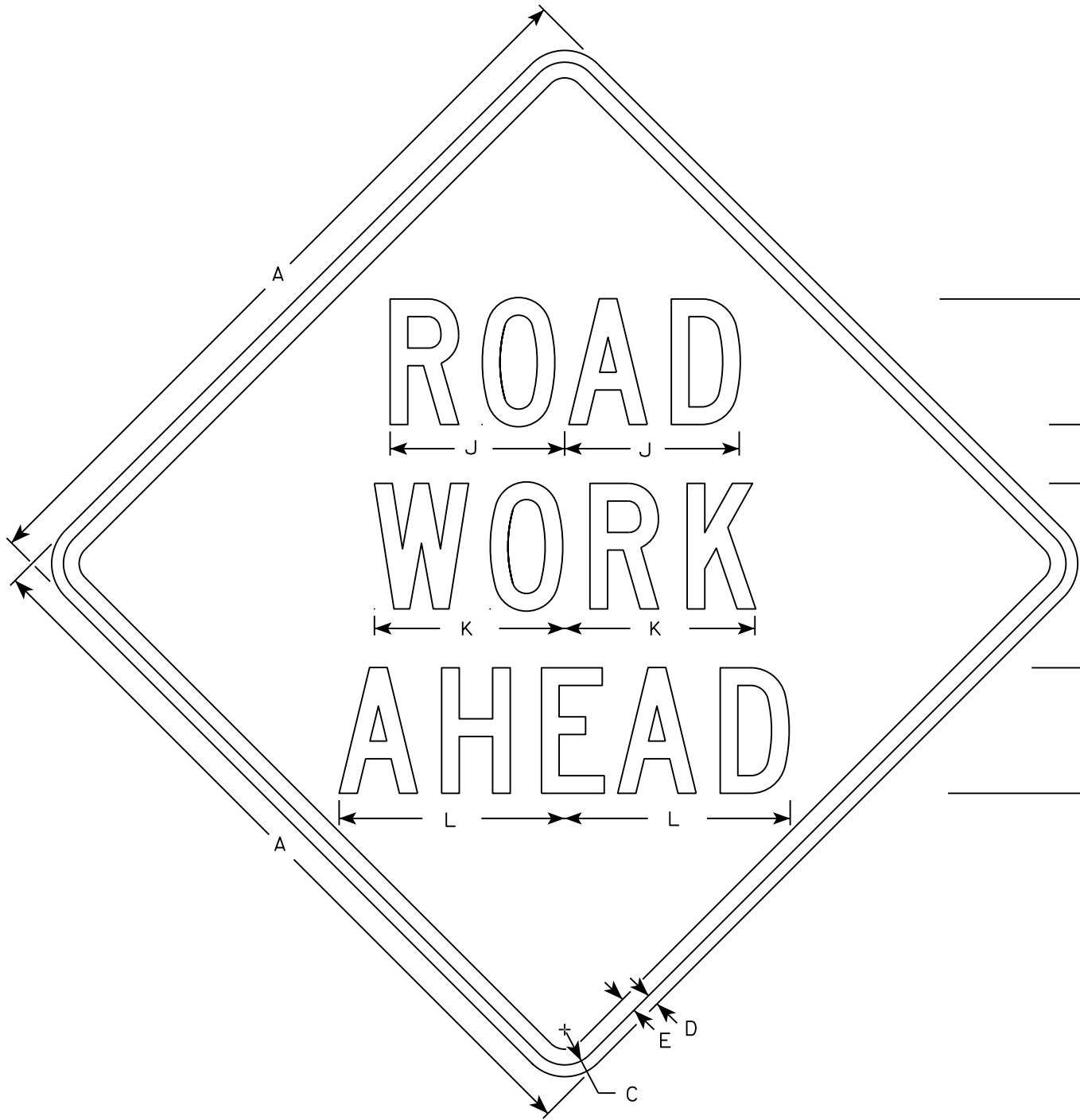
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

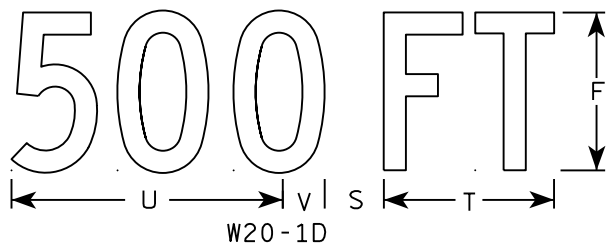
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

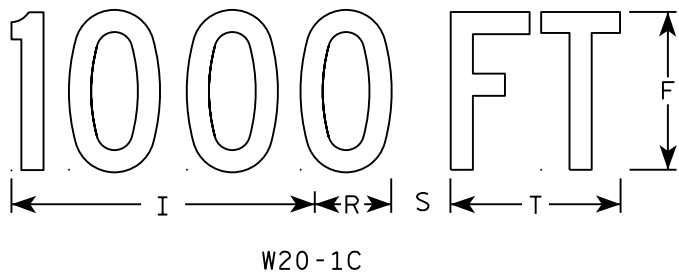
DATE 2/23/17 PLATE NO. W14-3.10



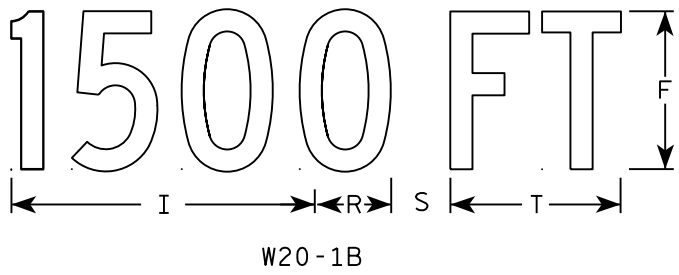
W20-1A



W20-1D



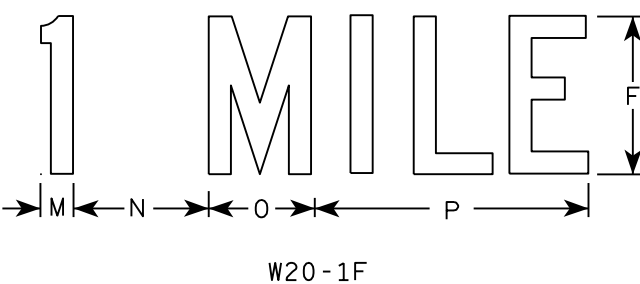
W20-1C



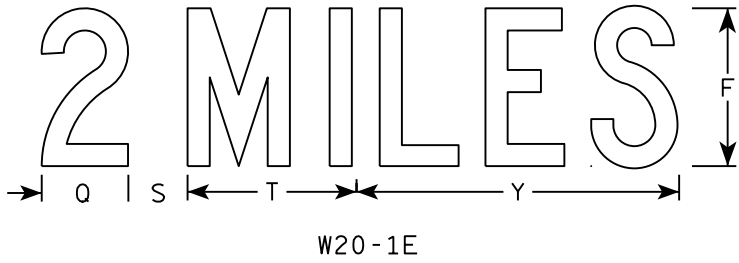
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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



Wisconsin Department of Transportation

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