

LAX FEBRUARY 2016

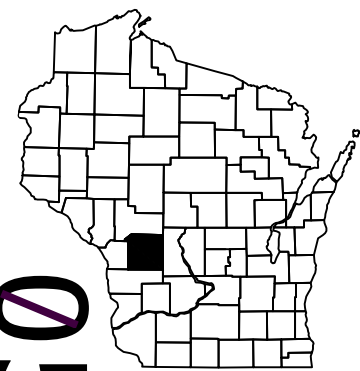
PROJECT ID: 1071-02-60

COUNTY: MONROE

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 Erosion Control
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 = 234



DESIGN DESIGNATION

A.A.D.T.	2011	=	19,100
A.A.D.T.	2036	=	25,100
D.H.V.		=	13.1
D.D.		=	60/40
T.		=	23.9%
DESIGN SPEED		=	70 MPH
ESALS		=	N/A

BEGIN PROJECT
LIMITS 1071-02-60:
STA. 1113+70:
X: 600557.50'
Y: 364362.74'

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

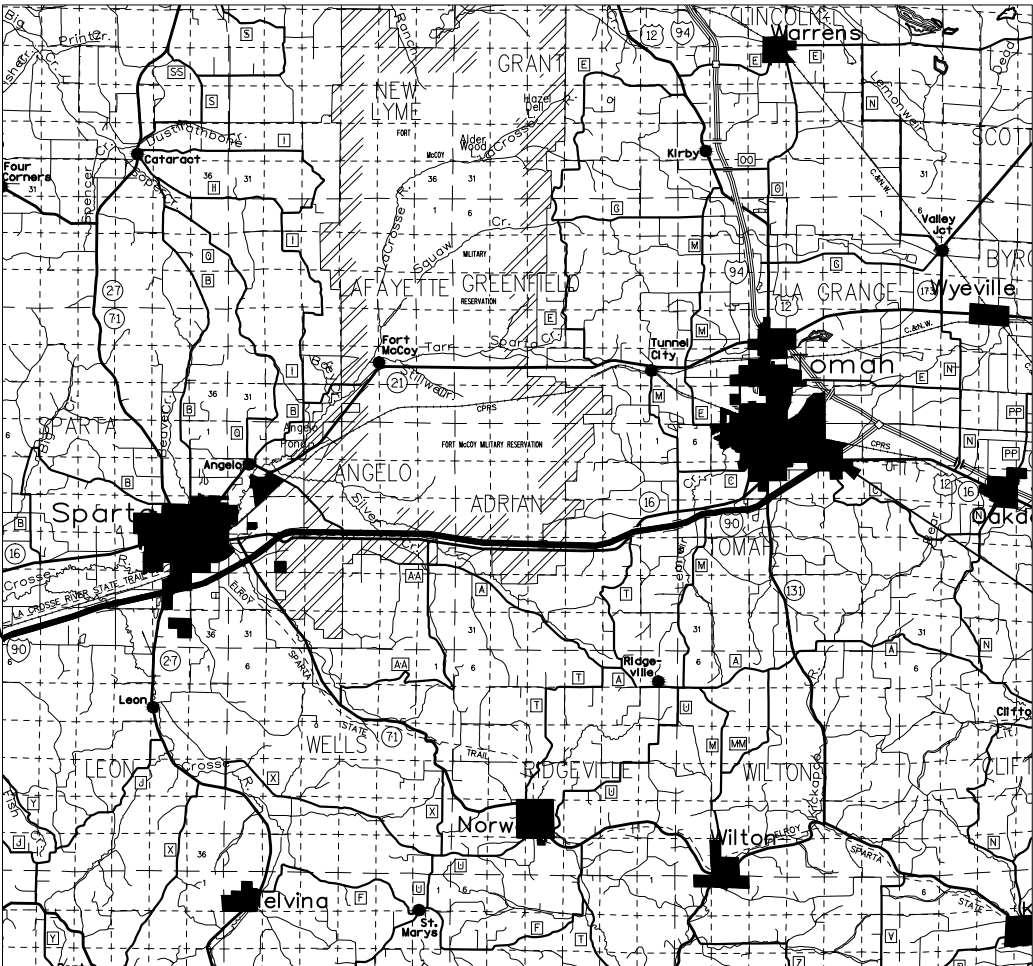
LA CROSSE - TOMAH

W COUNTY LINE TO USH 12

IH 90

MONROE COUNTY

STATE PROJECT NUMBER
1071-02-60



LAYOUT
SCALE 0 3MI

TOTAL NET LENGTH OF CENTERLINE = 23.013 MILES

END PROJECT
LIMITS 1071-02-60:
STA. 2328+60
X: 715425.33'
Y: 389985.89'

HORIZONTAL POSITIONS SHOWN ARE WISCONSIN COUNTY COORDINATES,
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 PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1071-02-60		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor _____

Designer NATHANIEL W. SCHUMAKER

Project Manager BRIAN MEYER

Regional Examiner _____

Regional Supervisor JAMES SAVOLDELLI

C.O. Examiner _____

APPROVED FOR THE DEPARTMENT

DATE: 8-1-2015 _____

(Signature)

E

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

WHEN PORTIONS OF EXISTING ASPHALTIC SURFACES ARE TO BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION, THE LINE OF SUCH REMOVAL SHALL BE NEATLY DELINEATED WITH A SAW CUT JOINT THROUGH THE ASPHALTIC SURFACE SO THAT REMOVAL OF THE ASPHALT SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

THE RATE OF APPLICATION FOR TACK COAT WAS CALCULATED AT 0.06 GAL/SY AT 50% ASPHALTIC CONTENT.

ASPHALT MATERIAL FOR PLANT MIXES HAS BEEN ESTIMATED AT 5.5% OF THE HMA PAVEMENT.

3-1/2-INCH HMA PAVEMENT AND 4-INCH HMA PAVEMENT, TYPE E-0.3 FOR THE SHOULDER REPAIRS AND REPLACEMENT SHALL BE CONSTRUCTED WITH ONE LIFT WITH A NOMINAL SIZE OF 12.5MM.

3-1/4 TO 4-INCH HMA PAVEMENT, TYPE E-10 FOR THE COMPOSITE BASE PATCHES SHALL BE CONSTRUCTED WITH A SINGLE LAYER OF TYPE E-10 (25MM).

SHAPING, TRIMMING AND DISPOSAL OF EXISTING SHOULDERS WILL BE INCIDENTAL TO THE BID ITEM OF CRUSHED AGGREGATE BASE COURSE.

ALL PATCH LOCATIONS WERE LOCATED IN THE DIRECTION OF TRAVEL.

ALL CLOSED LANES MUST BE SWEEPED CLEAN PRIOR TO OPENING OF TRAFFIC.

DETAILS OF CONSTRUCTION NOT SHOWN IN THE PLAN WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

MAINTAIN A CLEAN ROADWAY. CLEAN ALL SPILLS OF THE HIGHWAY IMMEDIATELY.

THE LOCATIONS OF UNDISTRIBUTED QUANTITIES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THERE IS A WEATHER STATION UNDER THE EASTBOUND LANES AROUND STATION 1960+50 RT. THE CONTRACTOR SHALL NOT DISTURB THE PAVEMENT WITHIN 25 FEET UP OR DOWN STATION OF THIS WEATHER STATION.

STANDARD ABBREVIATIONS

AC.	ACRE	MAX.	MAXIMUM
AGG.	AGGREGATE	MGAL	1000 GALLONS
AH	AHEAD	MIN.	MINIMUM
<	ANGLE	N.C.	NORMAL CROWN OR NO CHANGE
AE, AEW	APRON ENDWALL	N	NORTH
ASPH.	ASPHALTIC	NO.	NUMBER
A.D.T.	AVERAGE DAILY TRAFFIC	PAVT	PAVEMENT
B.F.	BACK FACE	P.L.E.	PERMANENT LIMITED EASEMENT
BK.	BACK	P.C.	POINT OF CURVATURE
BEG.	BEGIN	P.I.	POINT OF INTERSECTION
B.M.	BENCH MARK	P.T.	POINT OF TANGENCY
C/L	CENTER LINE	V.P.C.	VERTICAL POINT OF CURVATURE
D	CENTRAL ANGLE OR DELTA	V.P.I.	VERTICAL POINT OF INTERSECTION
C.M.C.P.	CORRUGATED METAL CULVERT PIPE	V.P.T.	VERTICAL POINT OF TANGENCY
C.M.P.	CORRUGATED METAL PIPE	PCC	PORTLAND CEMENT CONCRETE
CO.	COUNTY	P.E.	PRIVATE ENTRANCE
CTH	COUNTY TRUNK HIGHWAY	P.L.	PROPERTY LINE
CR.	CREEK	R	RADIUS OR RANGE
C.A.B.C.	CRUSHED AGGREGATE BASE COURSE	R/L	REFERENCE LINE
C.Y.	CUBIC YARD	R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
C.P.	CULVERT PIPE	RT	RIGHT
C. & G.	CURB AND GUTTER	REQ'D	REQUIRED
D	DEGREE OF CURVE	R.H.F.	RIGHT HAND FORWARD
D.H.V.	DESIGN HOUR VOLUME	R/W	RIGHT OF WAY
DIA.	DIAMETER	R.	RIVER
DISCH.	DISCHARGE	RD.	ROAD
EA	EACH	SHLD.	SHOULDER(S)
E	EAST	SHR.	SHRINKAGE
ELEC.	ELECTRIC(AL), ELEC. CABLE	S	SOUTH
EL., ELEV.	ELEVATION	S.F.	SQUARE FOOT (FEET)
EXC.	EXCAVATION	SDD	STANDARD DETAIL DRAWING(S)
F.F.	FACE TO FACE	STH	STATE TRUNK HIGHWAY
FERT.	FERTILIZER	STA.	STATION
F.E.	FIELD ENTRANCE	S.E.	SUPERELEVATION
F/L, F.L.	FLOW LINE	S/L	SURVEY LINE
CWT.	HUNDRED WEIGHT	T	TANGENT
INL	INLET	TEL.	TELEPHONE
INTER.	INTERSECTION	TEMP.	TEMPORARY
JT.	JOINT	T.L.E.	TEMPORARY LIMITED EASEMENT
LT	LEFT	T.O.C.	TOP OF CURB
L.H.F.	LEFT HAND FORWARD	T.	(TRUCKS) PERCENT OF
L.	LENGTH OF CURVE	TYP.	TYPICAL
L.F.	LINEAR FOOT(FEET)	UNCL.	UNCLASSIFIED
LC.	LONG CHORD	U.G.	UNDERGROUND (CABLE)
LS	LUMP SUM	V.C.	VERTICAL CURVE
M.P.	MARKER POST	W	WEST

UTILITY CONTACTS

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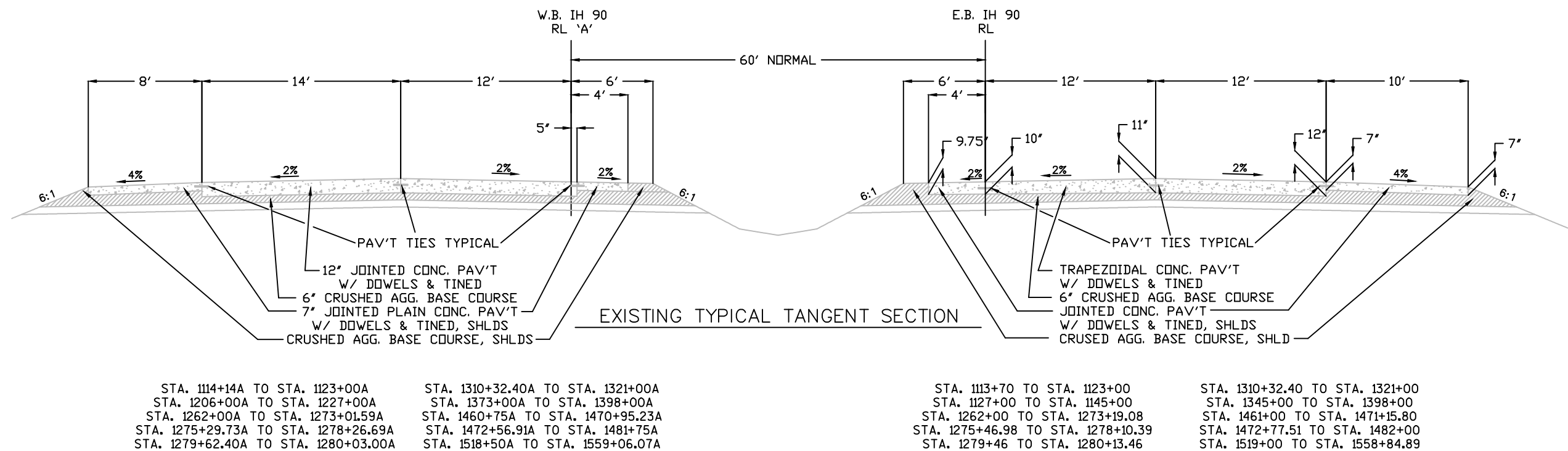
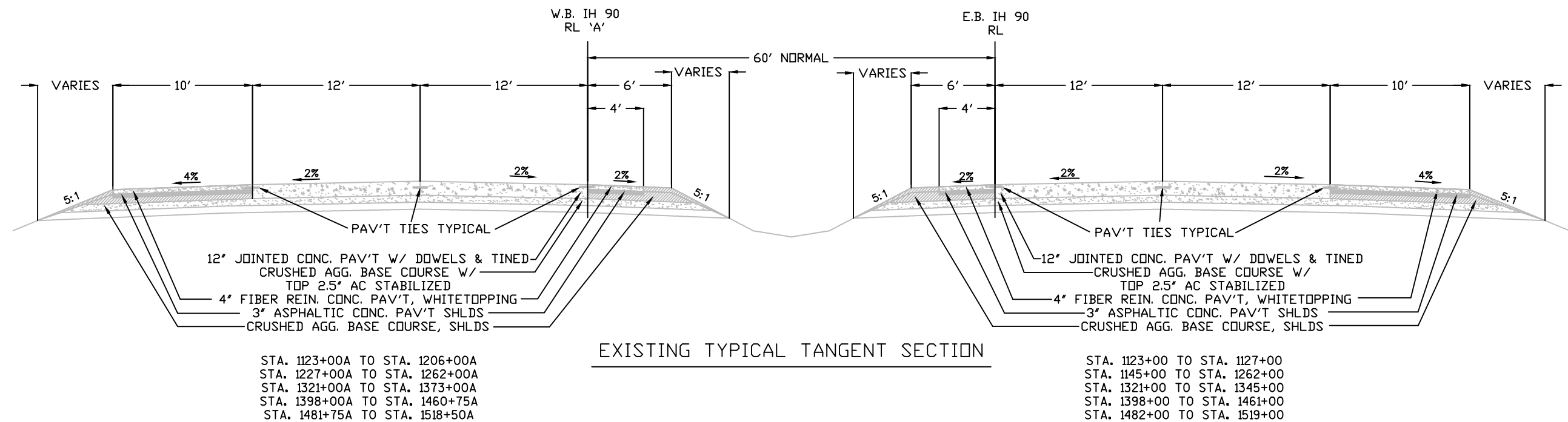
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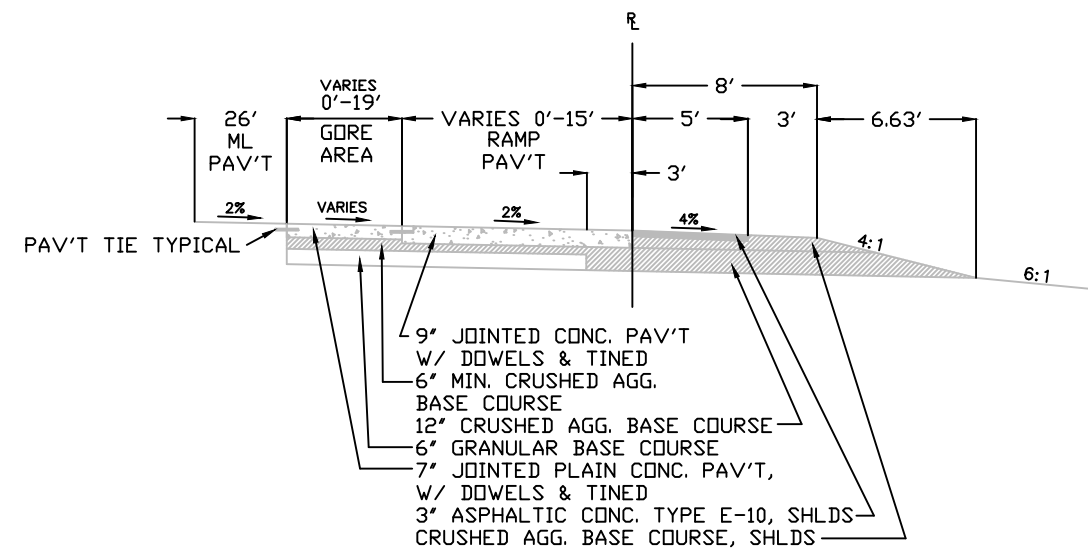
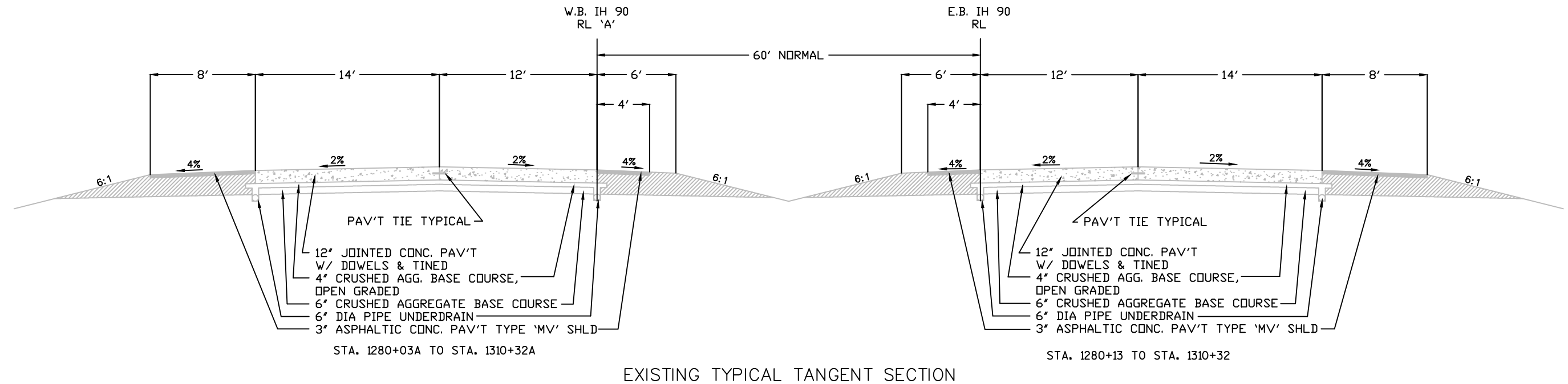
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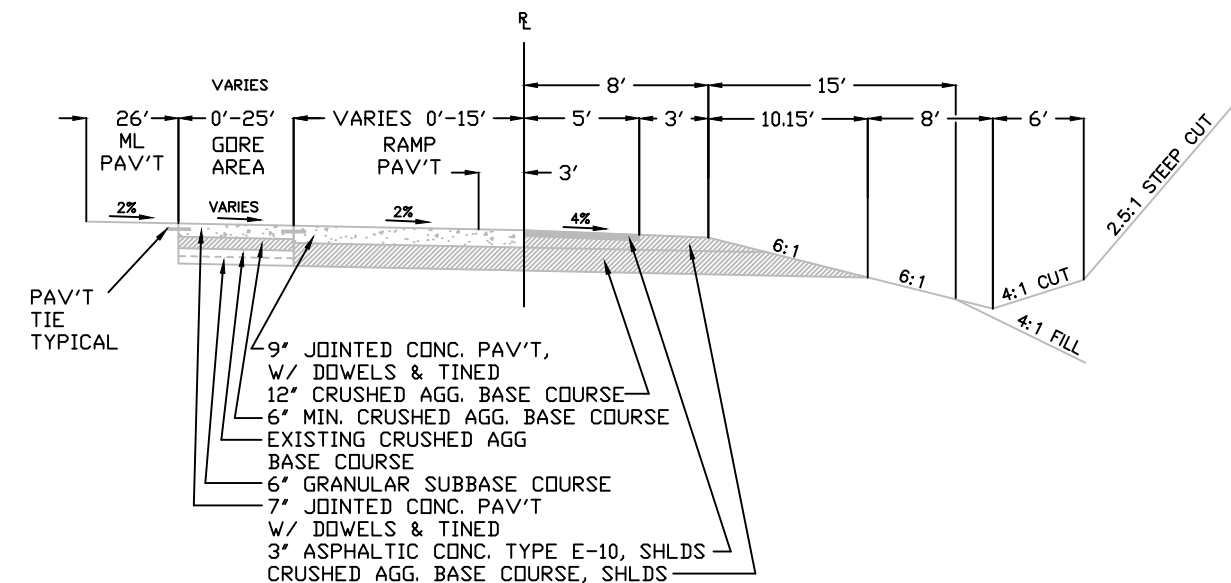






EXISTING TYPICAL ON RAMP SECTION

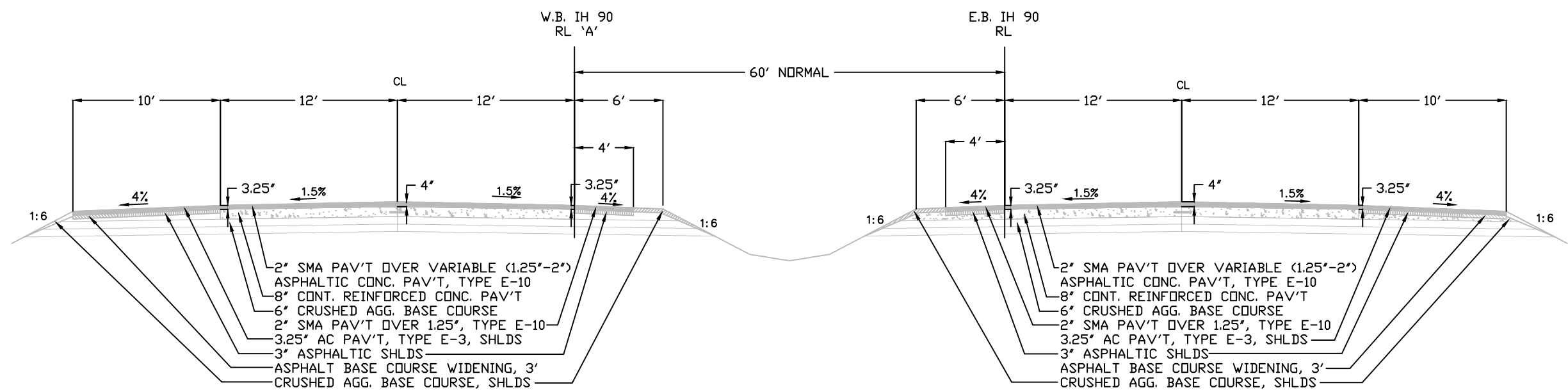
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SE RAMP @ STH 27 ('E' ALIGNMENT)
S RAMP @ STH 16 ('F' ALIGNMENT)
**N RAMP @ STH 16 ('H' ALIGNMENT)



EXISTING TYPICAL OFF RAMP SECTION

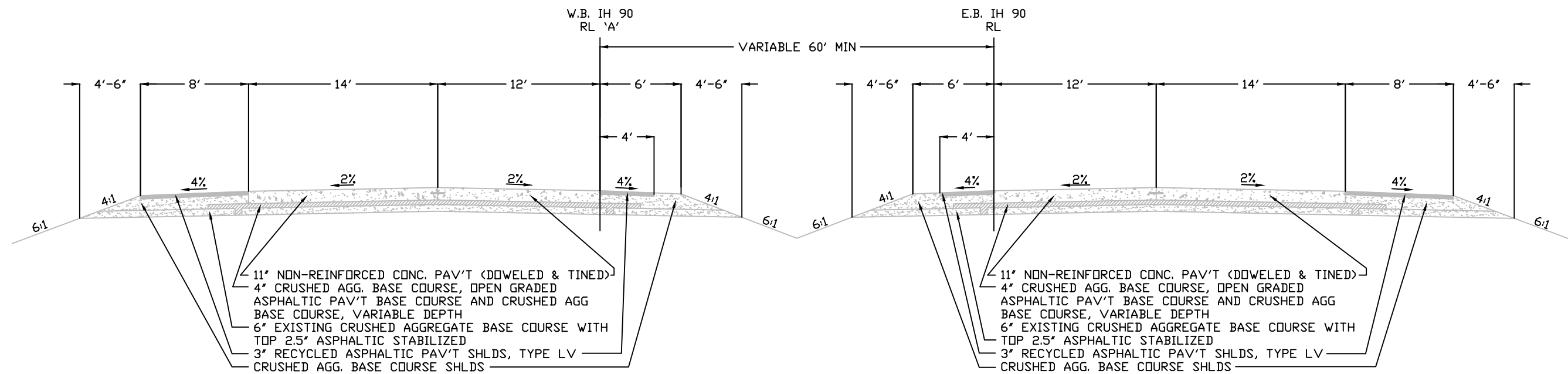
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**NE RAMP @ STH 27 ('D' ALIGNMENT)
**W RAMP @ STH 16 ('G' ALIGNMENT)
E RAMP @ STH 16 ('J' ALIGNMENT)

**MIRROR ACROSS REFERENCE LINE FOR WESTBOUND RAMPS.



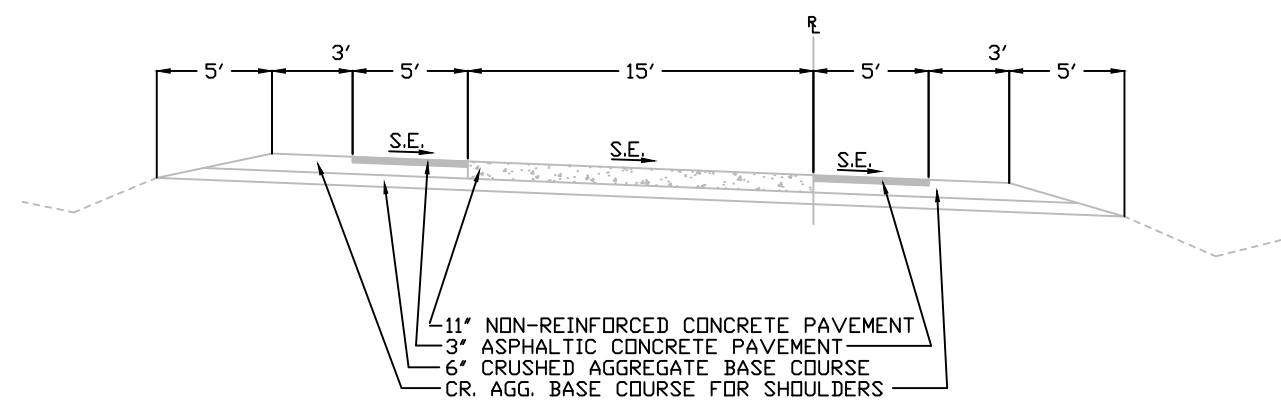
EXISTING TYPICAL TANGENT SECTION

STA. 1558+84.99 TO STA. 2002+45.75
STA. 2029+77 TO STA. 2104+15
STA. 1559+06.07A TO STA. 2103+75A



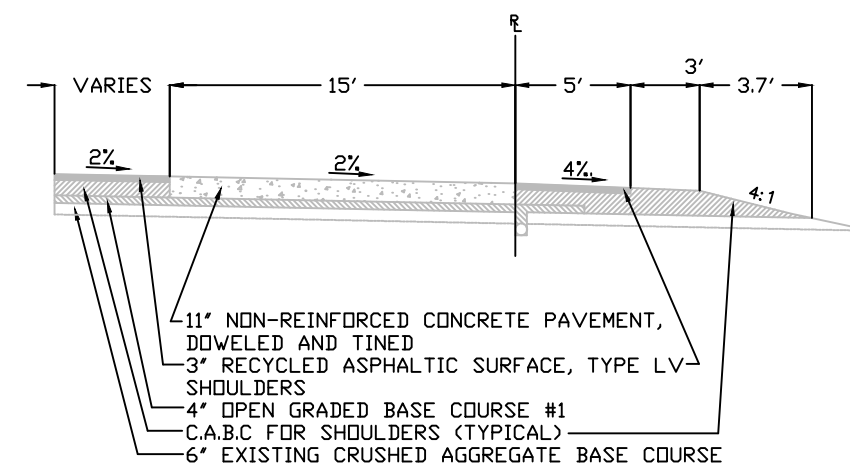
EXISTING TYPICAL TANGENT SECTION

STA. 2104+15 TO STA. 2328+80
STA. 2103+75A TO STA. 2326+75A



EXISTING TYPICAL RAMP SECTION

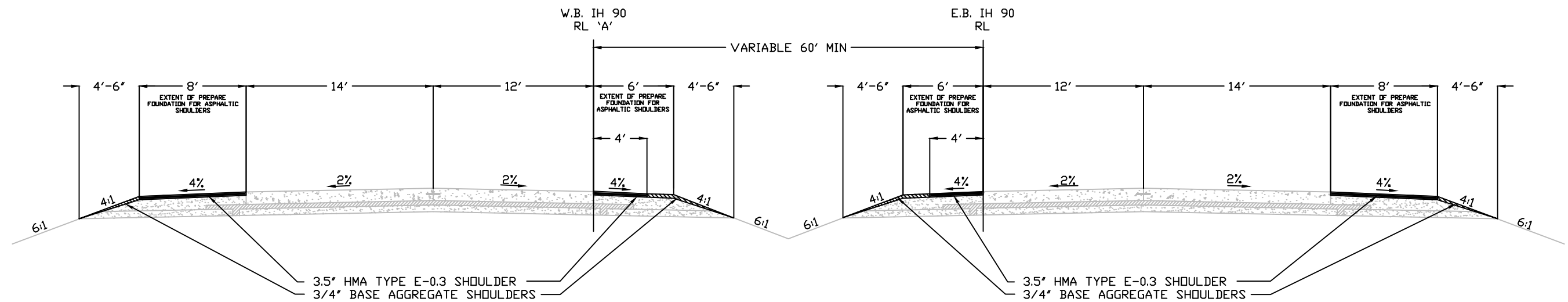
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**NE RAMP @ STH 131 ('M' ALIGNMENT)
SE RAMP @ STH 131 ('N' ALIGNMENT)
S RAMP @ USH 12 ('P' ALIGNMENT)
**W RAMP @ USH 12 ('Q' ALIGNMENT)



EXISTING TYPICAL RAMP TAPER SECTION

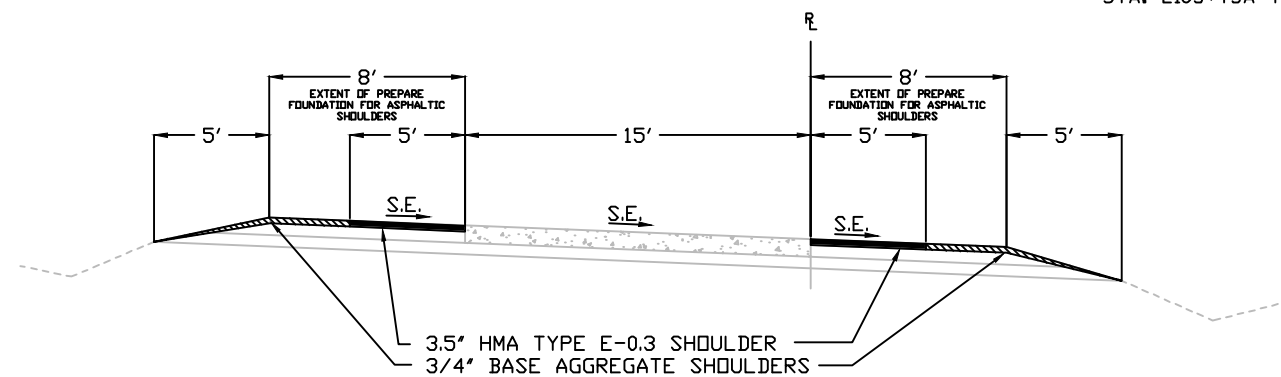
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SE RAMP @ STH 131 ('N' ALIGNMENT)
S RAMP @ USH 12 ('P' ALIGNMENT)
**W RAMP @ USH 12 ('Q' ALIGNMENT)

**MIRROR ABOUT THE REFERENCE
LINE FOR WESTBOUND RAMPS.



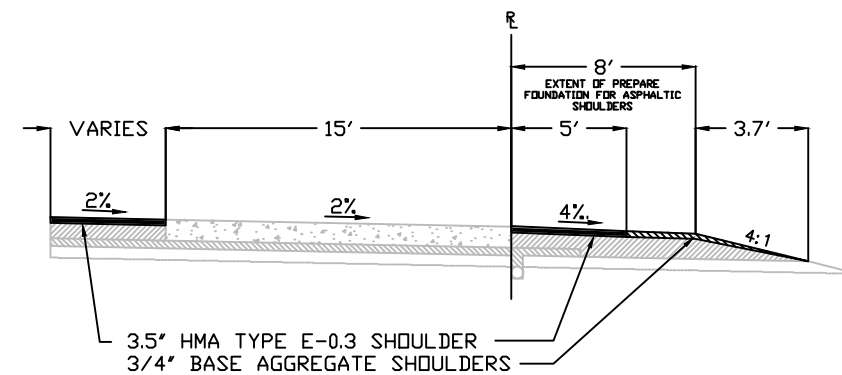
PROPOSED TYPICAL TANGENT SECTION

STA. 2104+15 TO STA. 2328+80
STA. 2103+75A TO STA. 2326+75A



PROPOSED TYPICAL RAMP SECTION

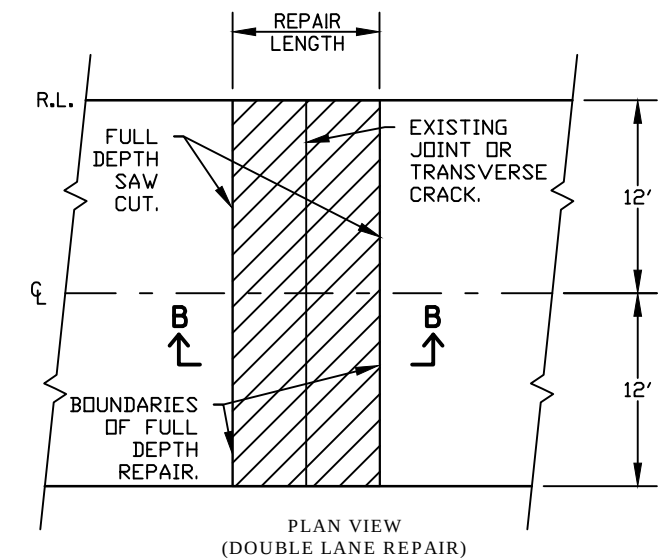
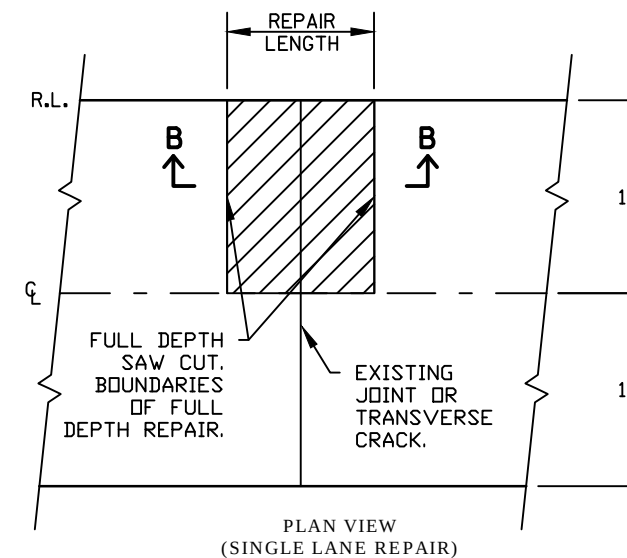
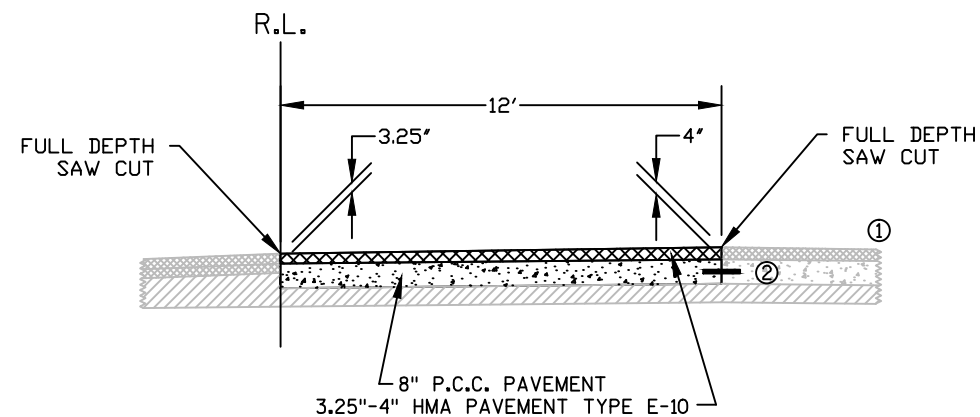
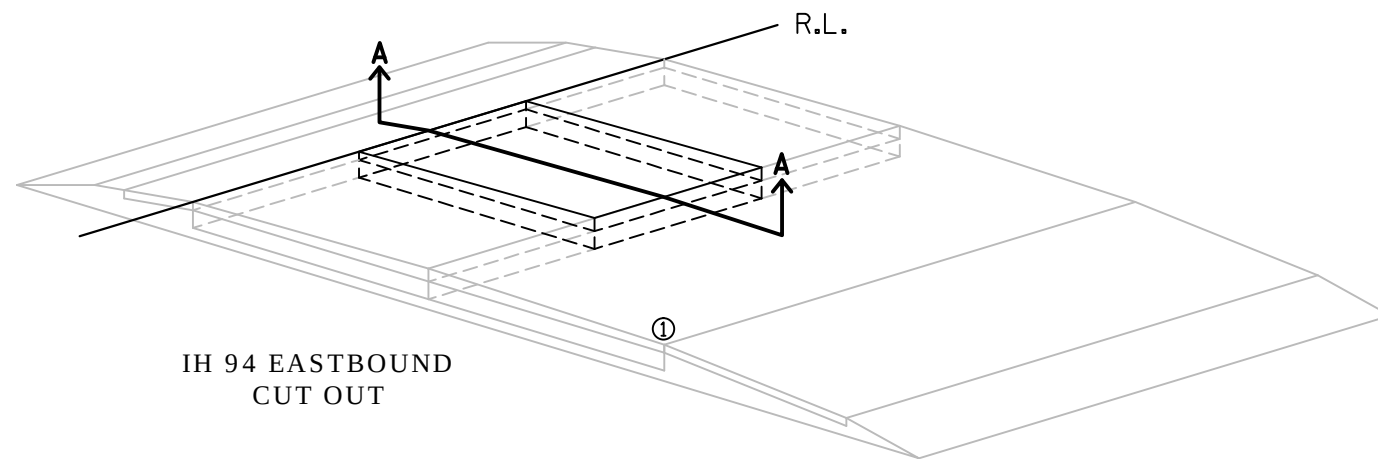
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SE RAMP @ STH 131 ('N' ALIGNMENT)



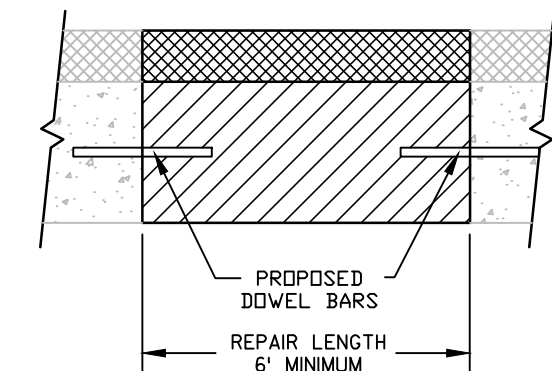
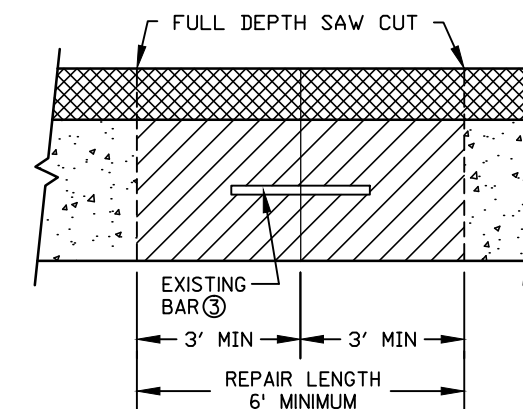
PROPOSED TYPICAL RAMP TAPER SECTION

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**NE RAMP @ STH 131 ('M' ALIGNMENT)
SE RAMP @ STH 131 ('N' ALIGNMENT)

**MIRROR ABOUT THE REFERENCE
LINE FOR WESTBOUND RAMPS.



FULL DEPTH CONCRETE PAVEMENT REMOVAL

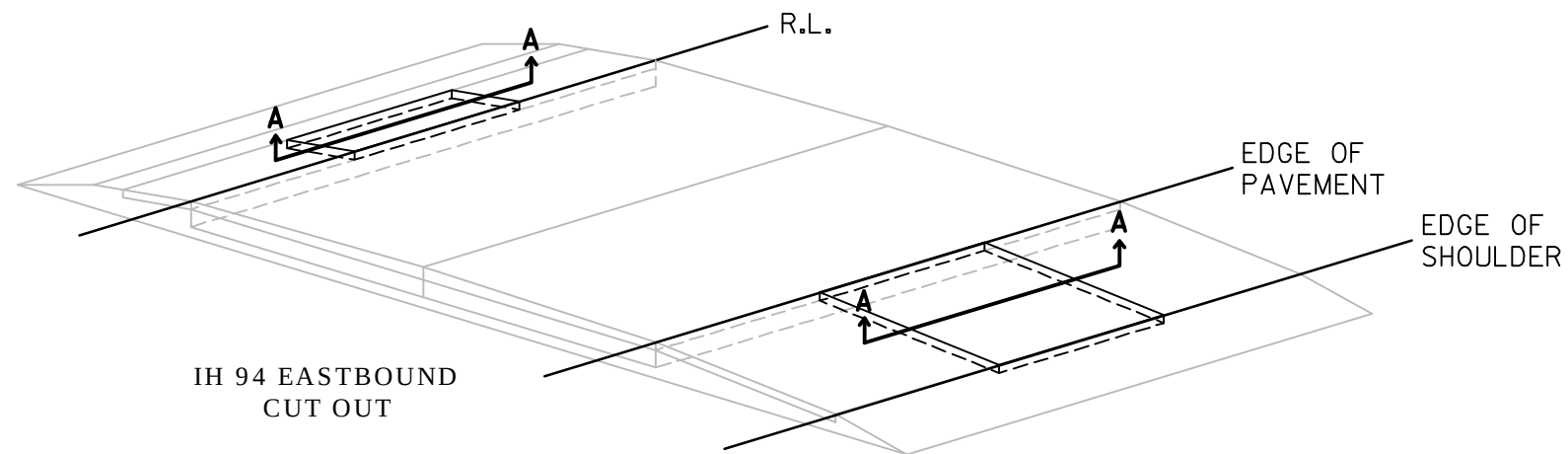


GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING ASPHALTIC AND P.C. CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AND REPLACEMENT AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR AND REPLACEMENT LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AND REPLACEMENT AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

- ① FOR DOUBLE LANE REPAIRS OR OUTSIDE LANE REPAIRS, THE OUTER ASPHALT PAVEMENT THICKNESS IS 3.25".
- ② PAVEMENT TIES WILL BE NECESSARY IF THE LENGTH OF THE REPLACEMENT EXCEEDS 15'. SEE 'CONCRETE PAVEMENT REPAIR AND REPLACEMENT' STANDARD DETAIL FOR TIE BAR PLACEMENT INFORMATION. UTILIZE A 12" PAVEMENT DEPTH FOR MAXIMUM TIE BAR SPACING.
- ③ DOWEL BARS MAY NOT EXIST. SEE 'CONCRETE PAVEMENT REPAIR AND REPLACEMENT' STANDARD DETAIL FOR DOWEL BAR PLACEMENT INFORMATION.

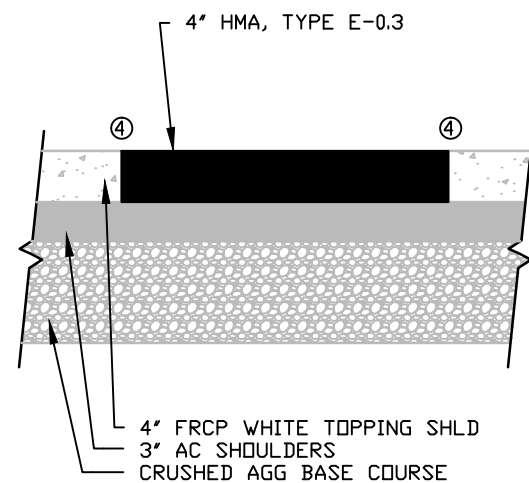


GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING ASPHALTIC AND P.C. CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF PAVEMENT REMOVAL AND NEW ASPHALT PAVEMENT BID ITEMS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR AND REPLACEMENT LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

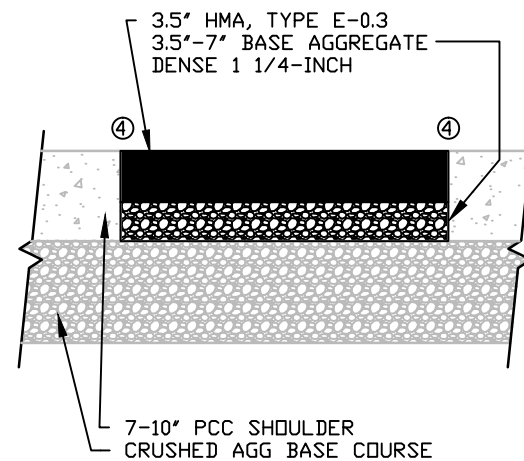
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AND REPLACEMENT AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

- ① USE A PARTIAL DEPTH CONCRETE SAWCUT TO REMOVE THE 4" FIBER REINFORCED OVERLAY WHILE LEAVING THE LOWER LAYER OF HMA IN TACT. USE A LEVELING LAYER PRIOR TO PLACING THE NEW HMA SHOULDER IF NECESSARY. TACK COAT AND INLAY WITH A 4" SINGLE LAYER OF HMA TYPE E-0.3 (12.5MM)
- ② FULL DEPTH CONCRETE SHOULDERS VARY IN WIDTH FROM 7-10 INCHES. USE A FULL DEPTH CONCRETE SAWCUT TO REMOVE THE ENTIRE PAVEMENT WITHIN THE LIMITS OF THE MISCELLANEOUS QUANTITIES. FILL VOID WITH BASE AGGREGATE DENSE 1 1/4-INCH TO THE REQUIRED GRADE. PAVE WITH 3.5" OF HMA PAVEMENT TYPE E-0.3 IN ONE LAYER (12.5MM.)
- ③ FOR SHOULDER REPAIRS IN THE SMA SEGMENT, USE A FULL DEPTH ASPHALT SAWCUT TO REMOVE 6.25" OF THE EXISTING SHOULDER WITHIN THE LIMITS OUTLINED IN THE MISCELLANEOUS QUANTITIES. FILL VOID WITH BASE AGGREGATE DENSE 1 1/4-INCH TO THE REQUIRED GRADE. PAVE WITH 3.5" OF HMA PAVEMENT TYPE E-0.3 IN ONE LAYER (12.5MM.)
- ④ ROUT AND SEAL THE LATERAL JOINTS AS WELL AS THE LONGITUDINAL JOINTS WHEN PLACING AN ASPHALTIC SHOULDER PATCH IN A CONCRETE PAVEMENT SHOULDER.



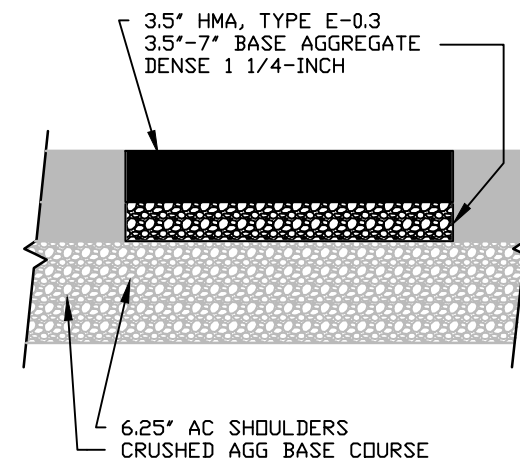
SECTION A-A

①
PROPOSED REPAIR FOR
FIBER REINFORCED
CONCRETE SHOULDERS



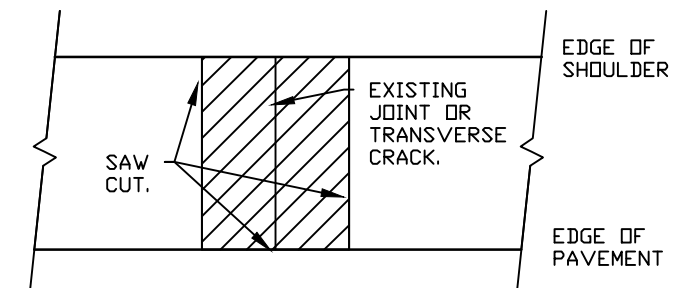
SECTION A-A

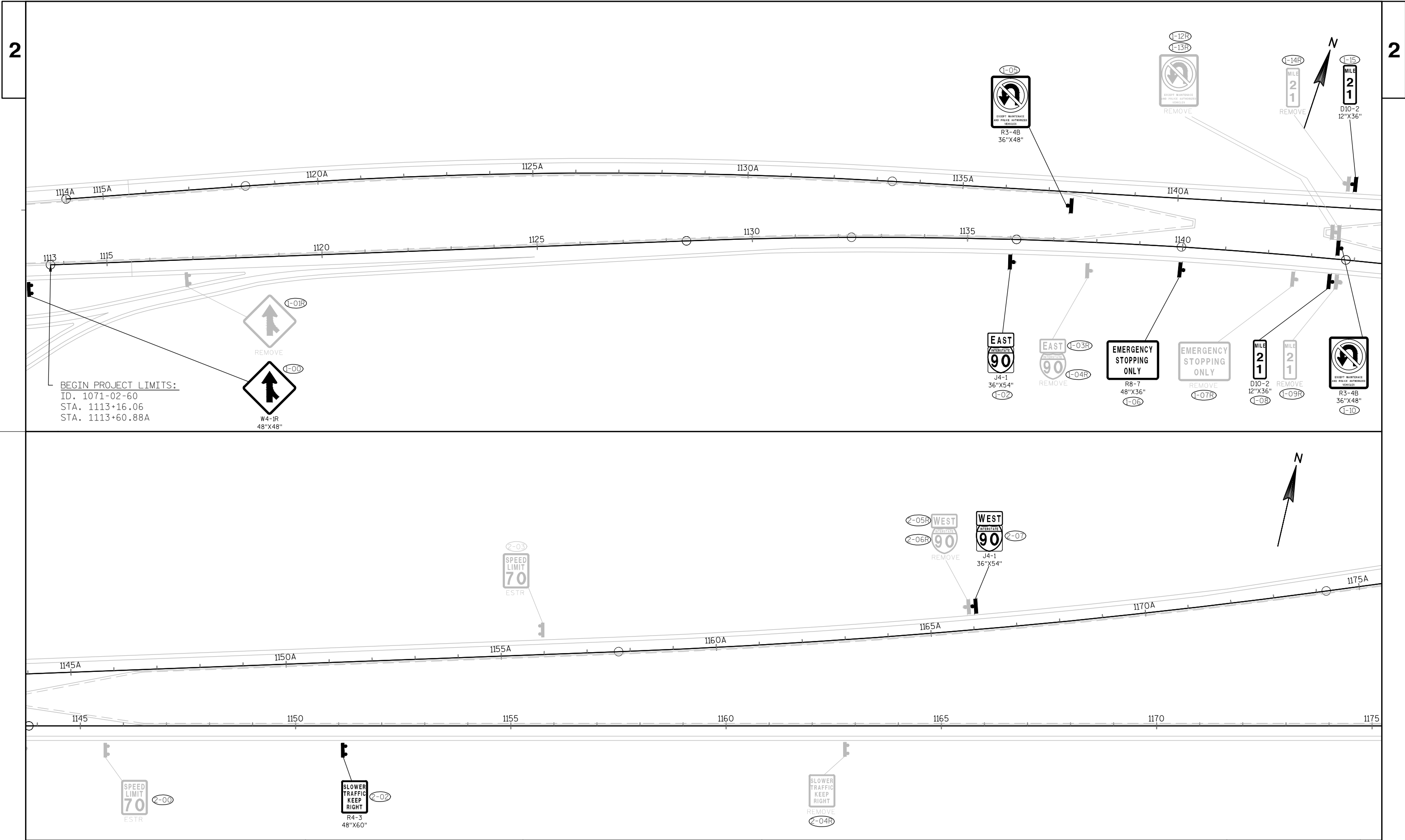
②
PROPOSED REPAIR FOR FULL
DEPTH CONCRETE
SHOULDERS

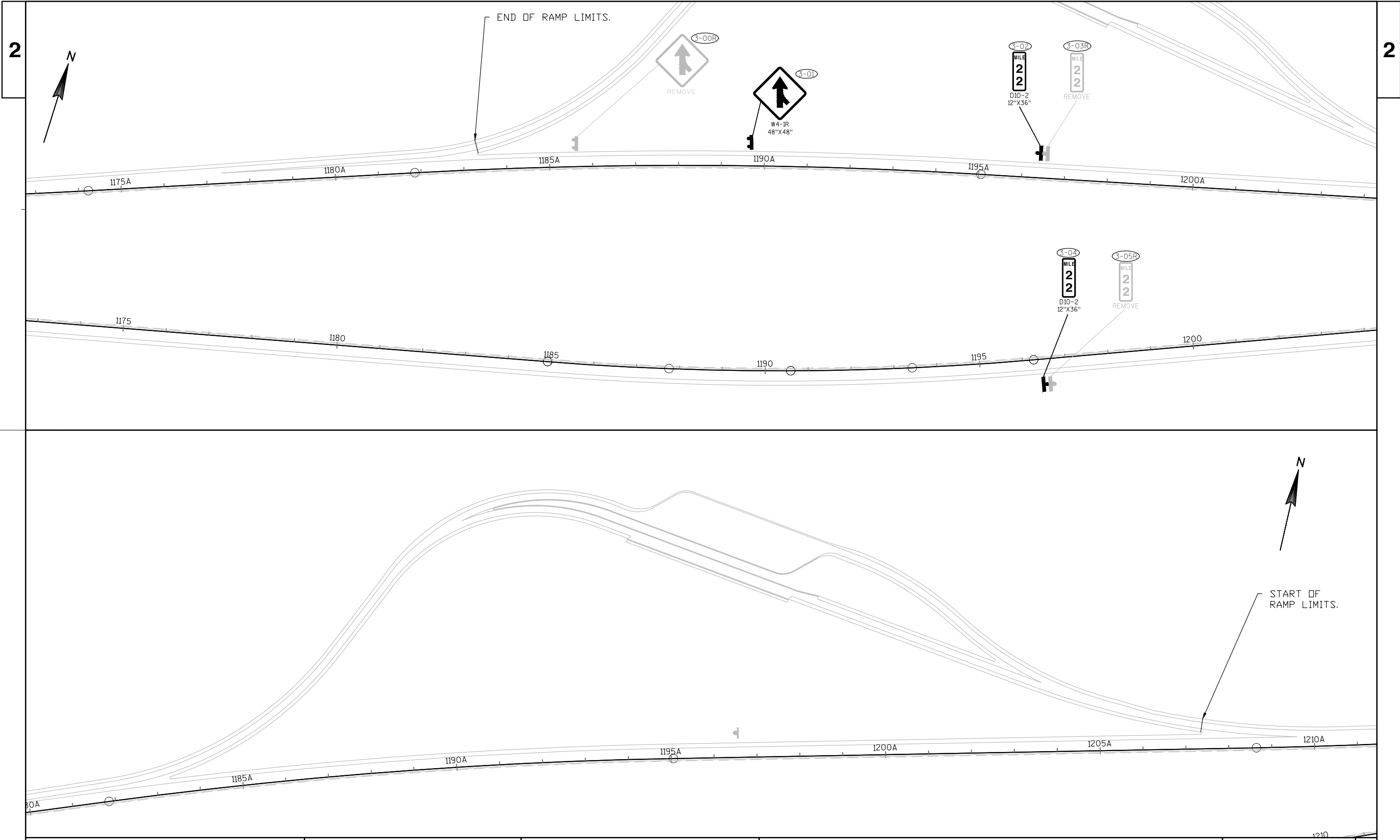


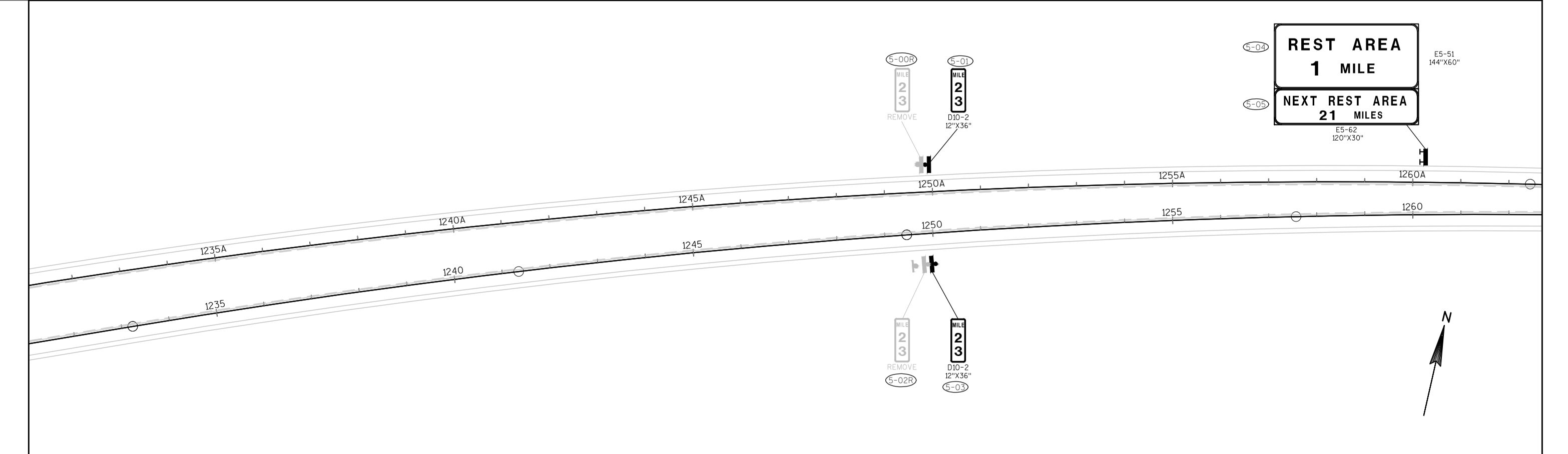
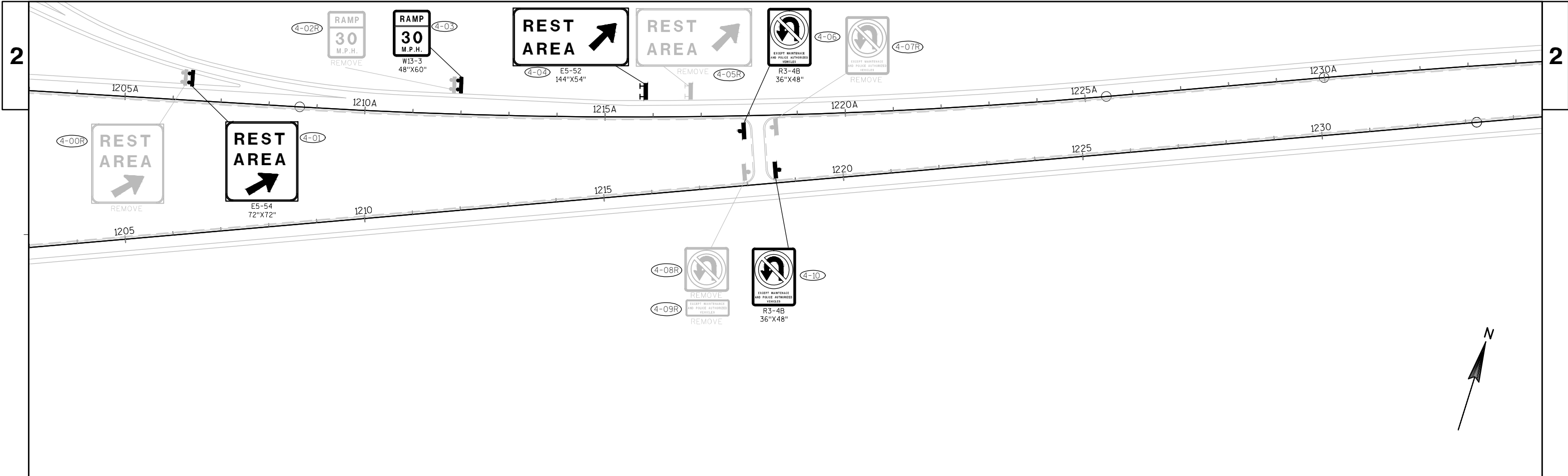
SECTION A-A

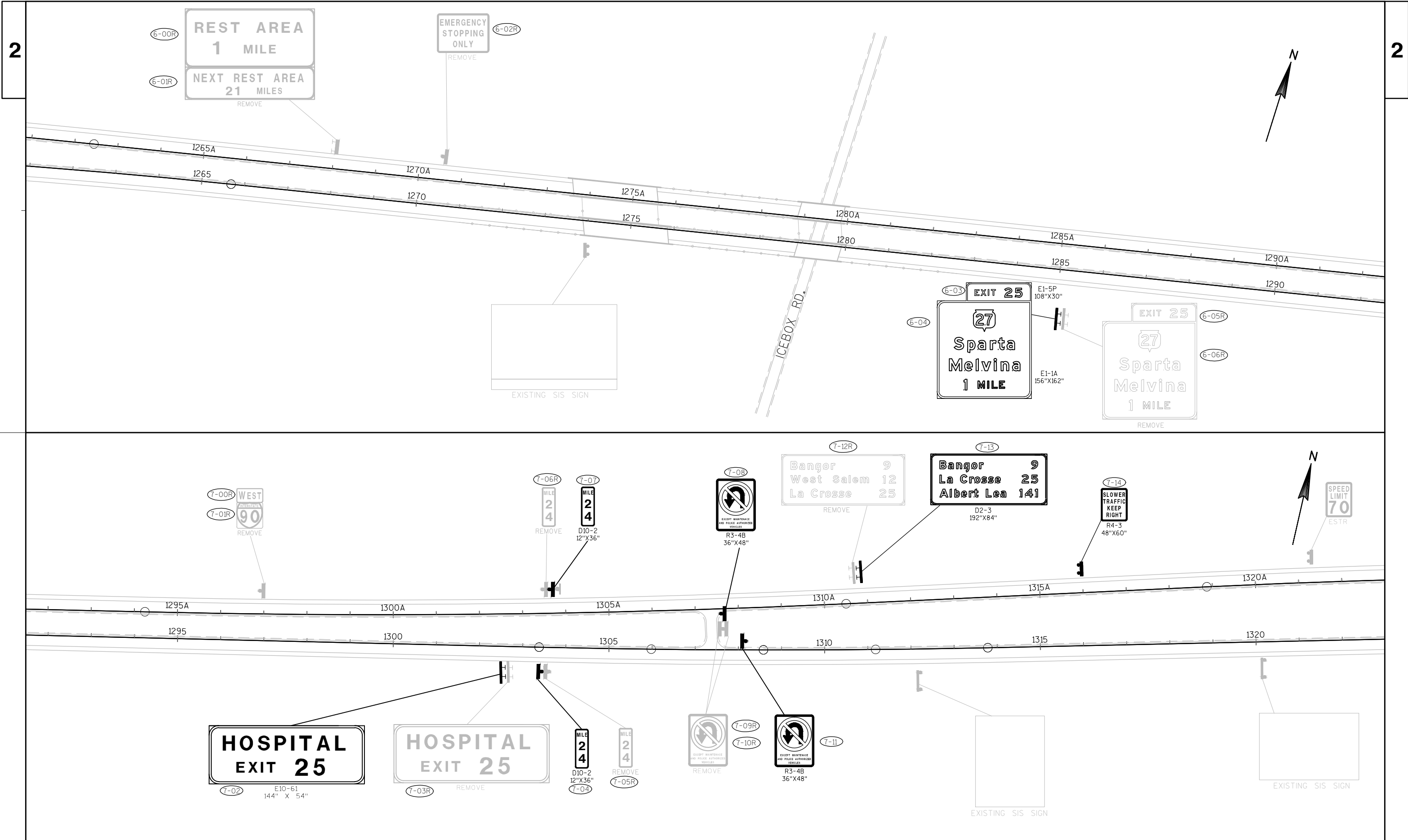
③
PROPOSED REPAIR FOR
SMA SHOULDERS

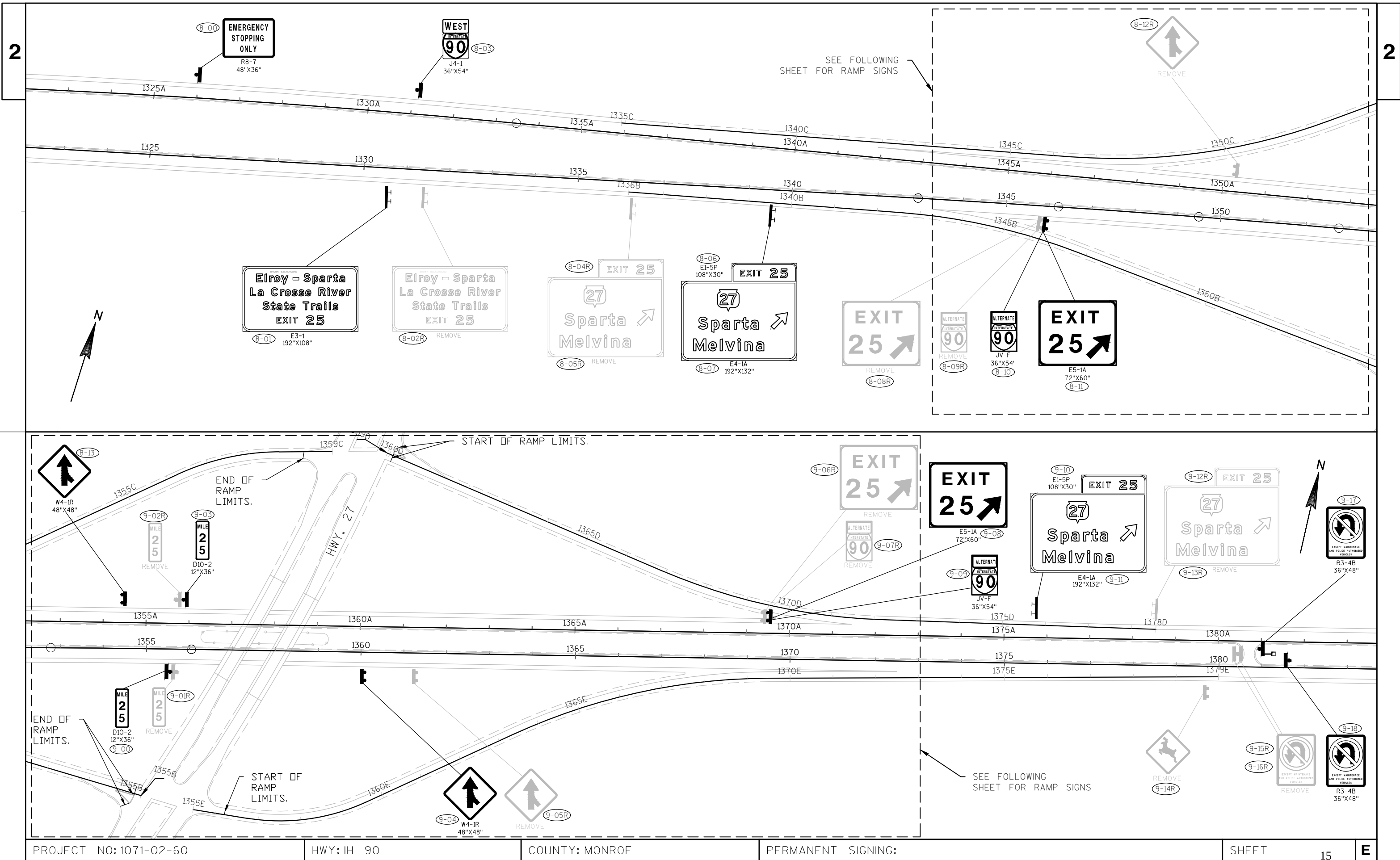


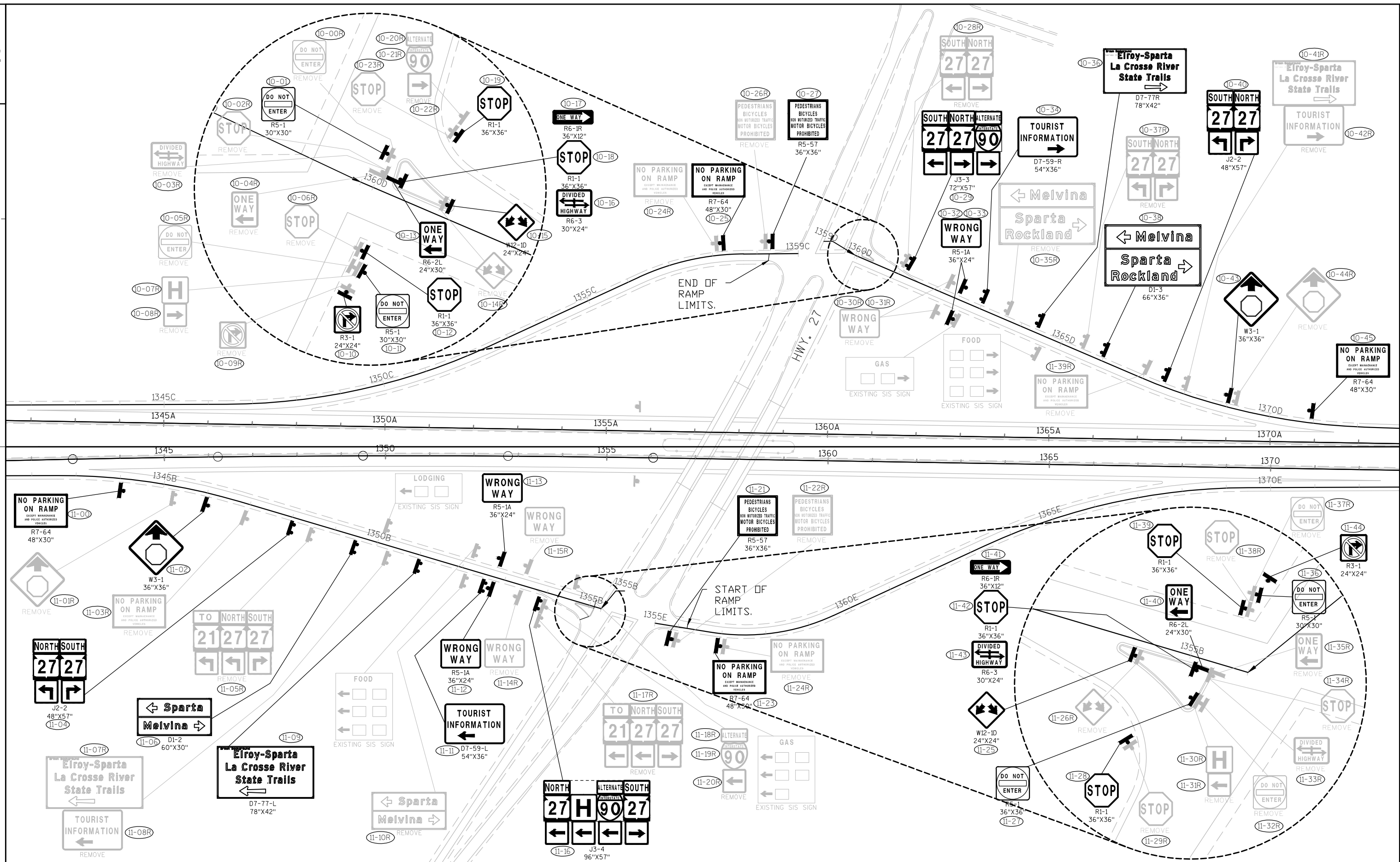


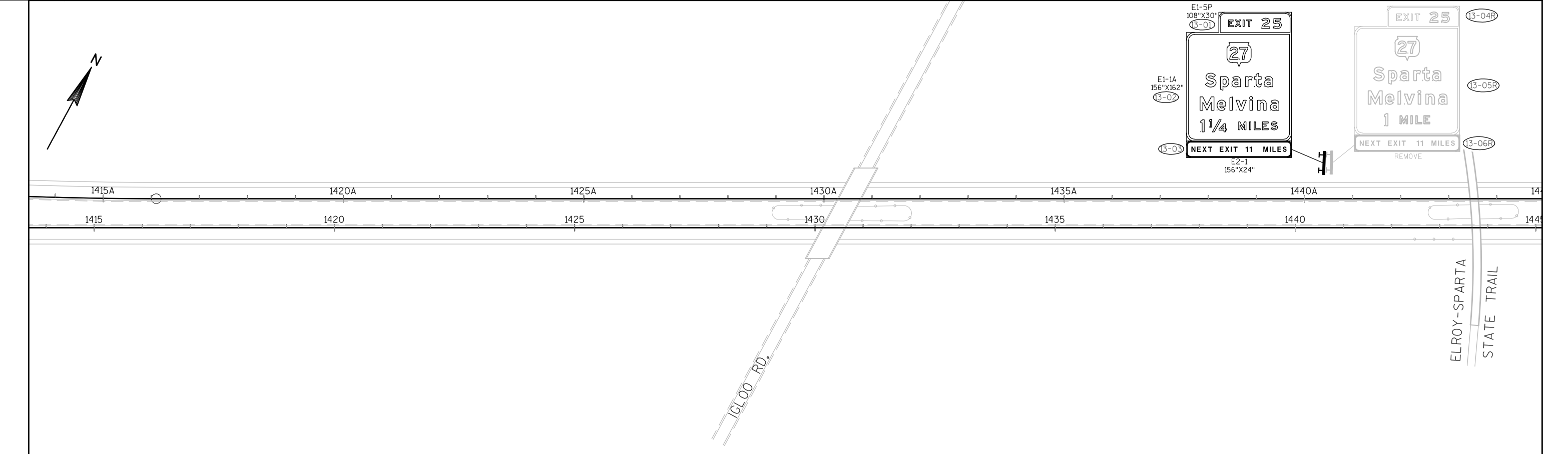
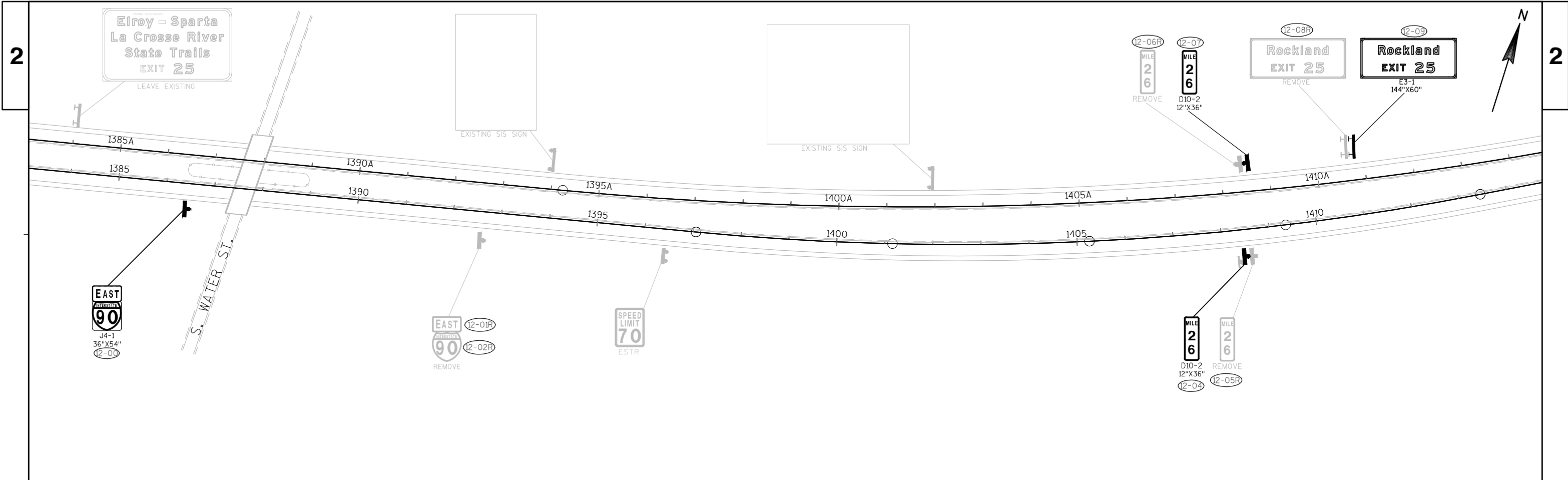


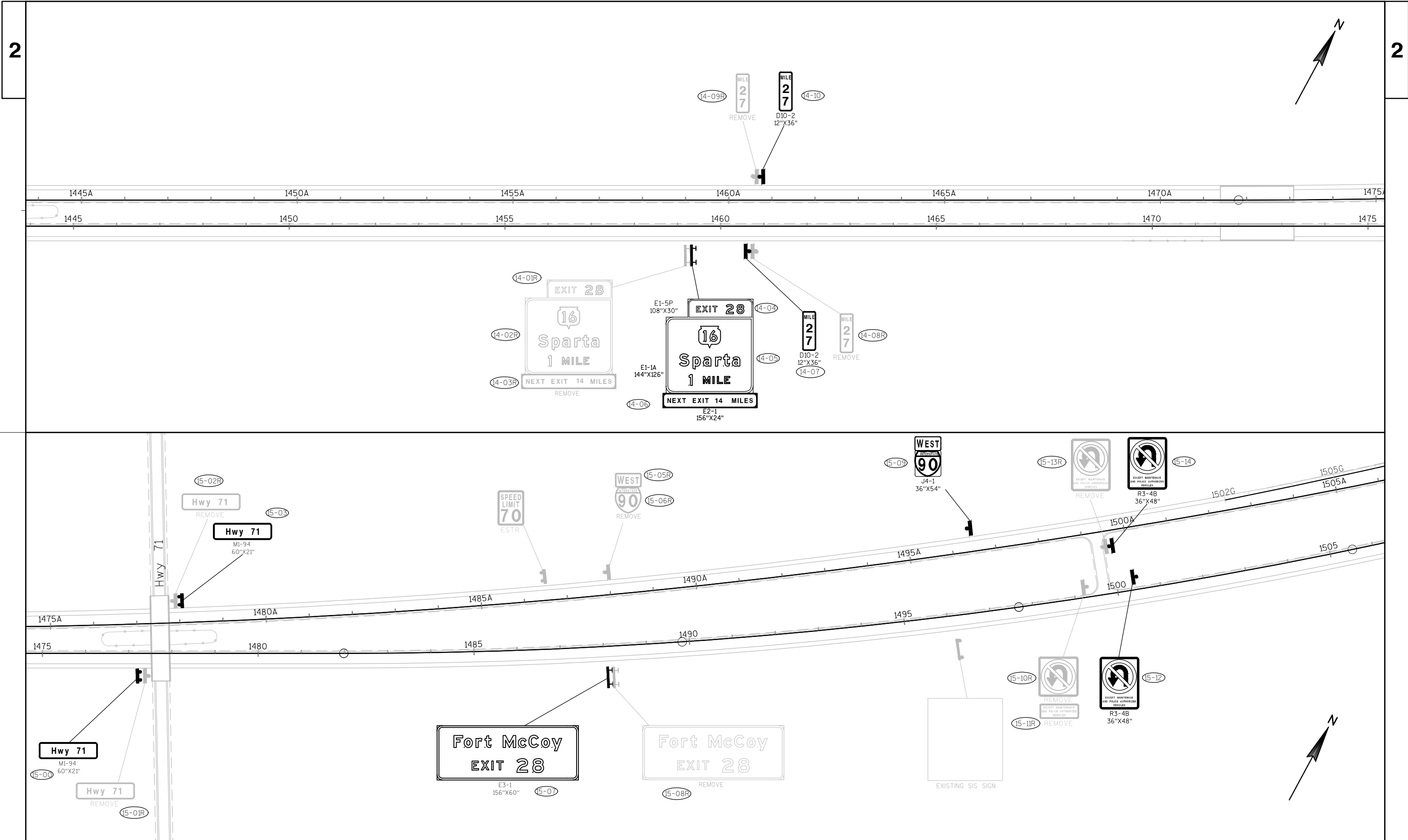


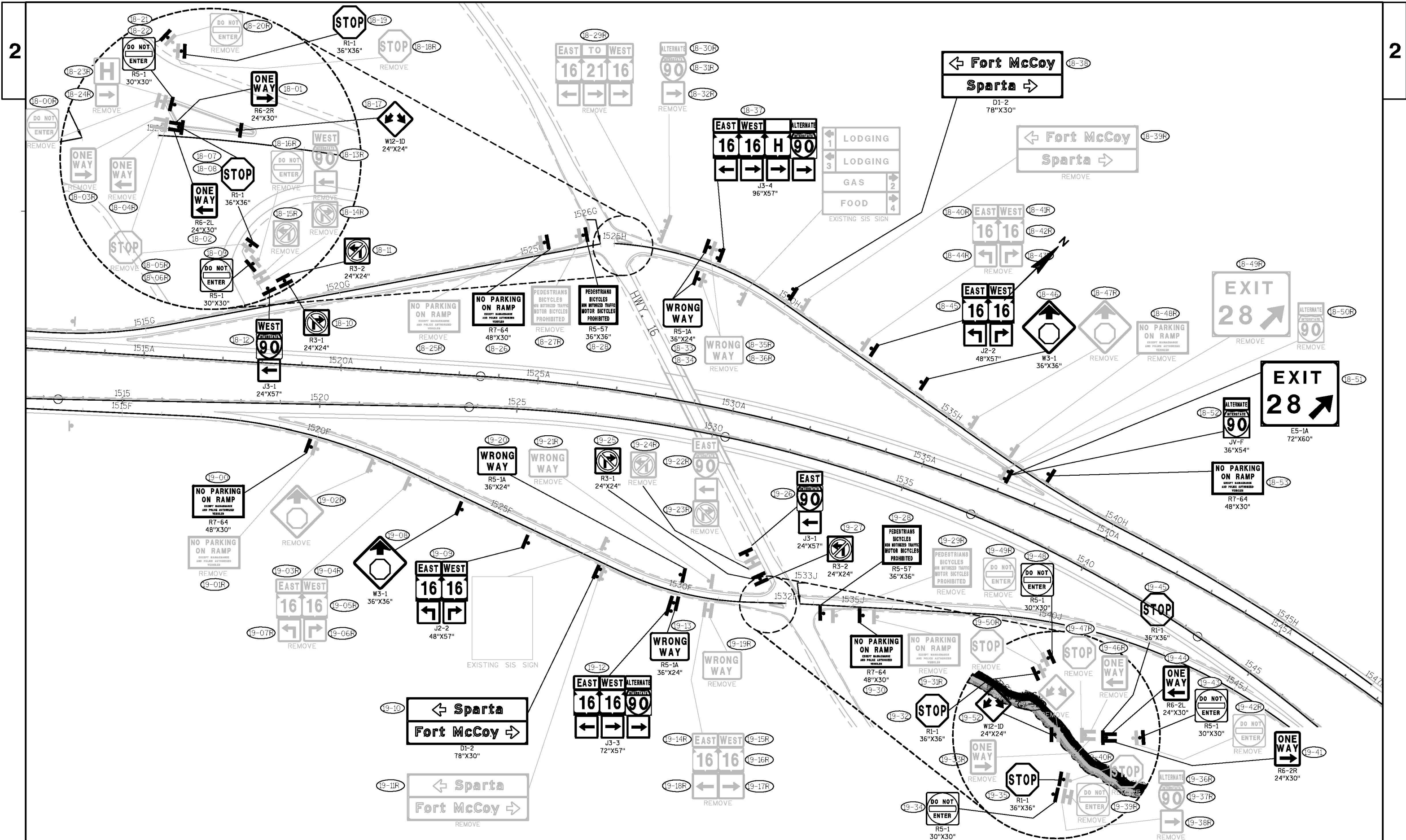


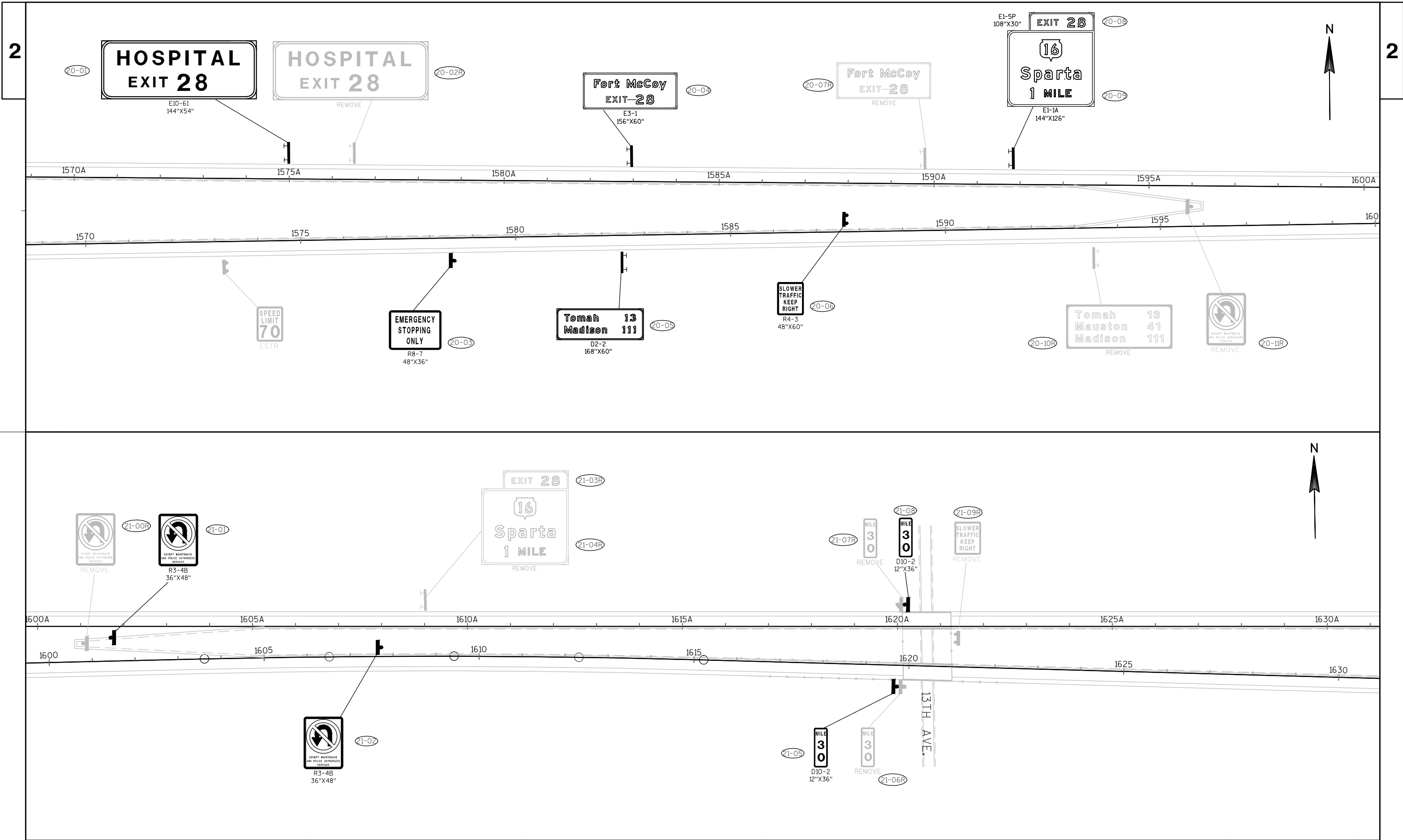


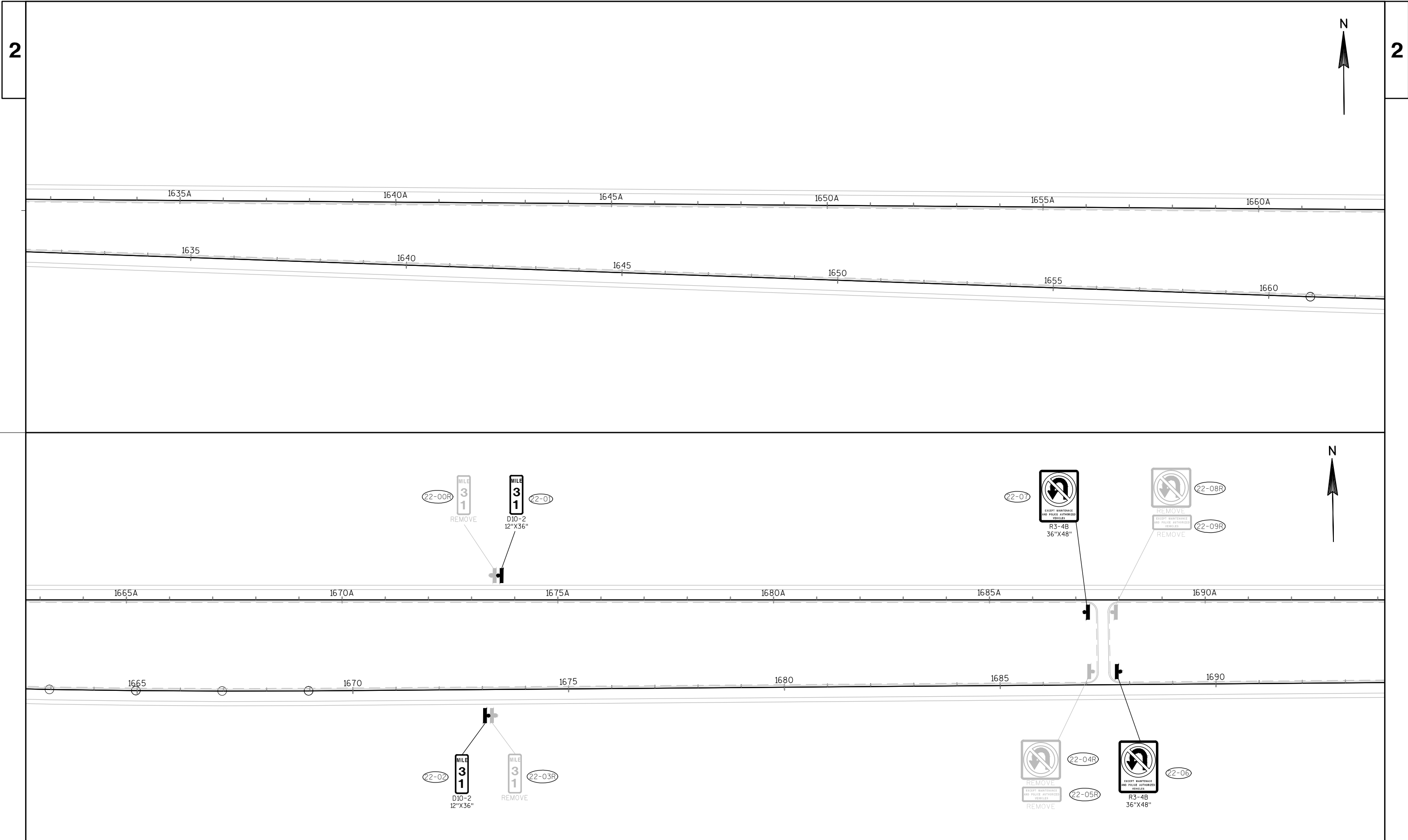


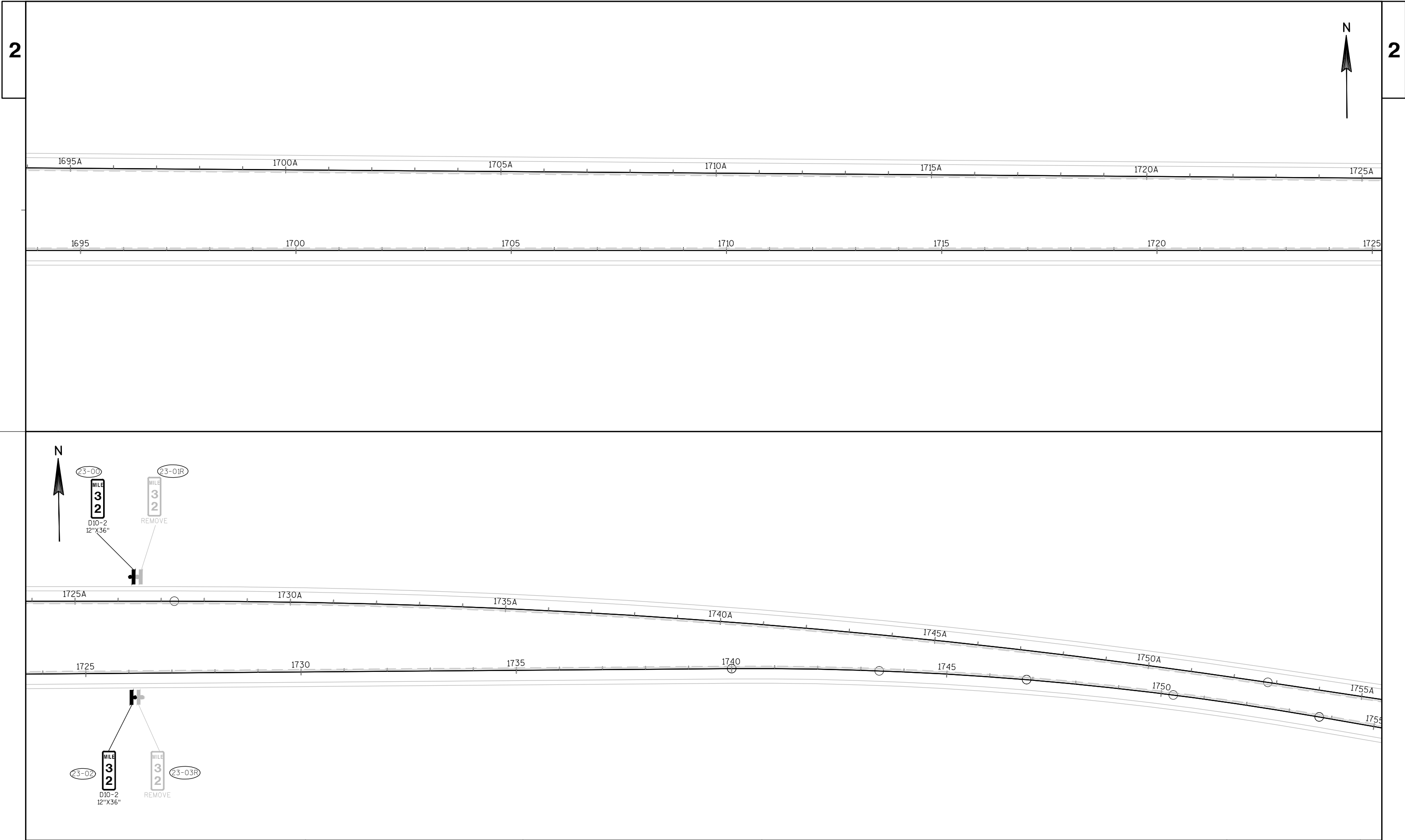


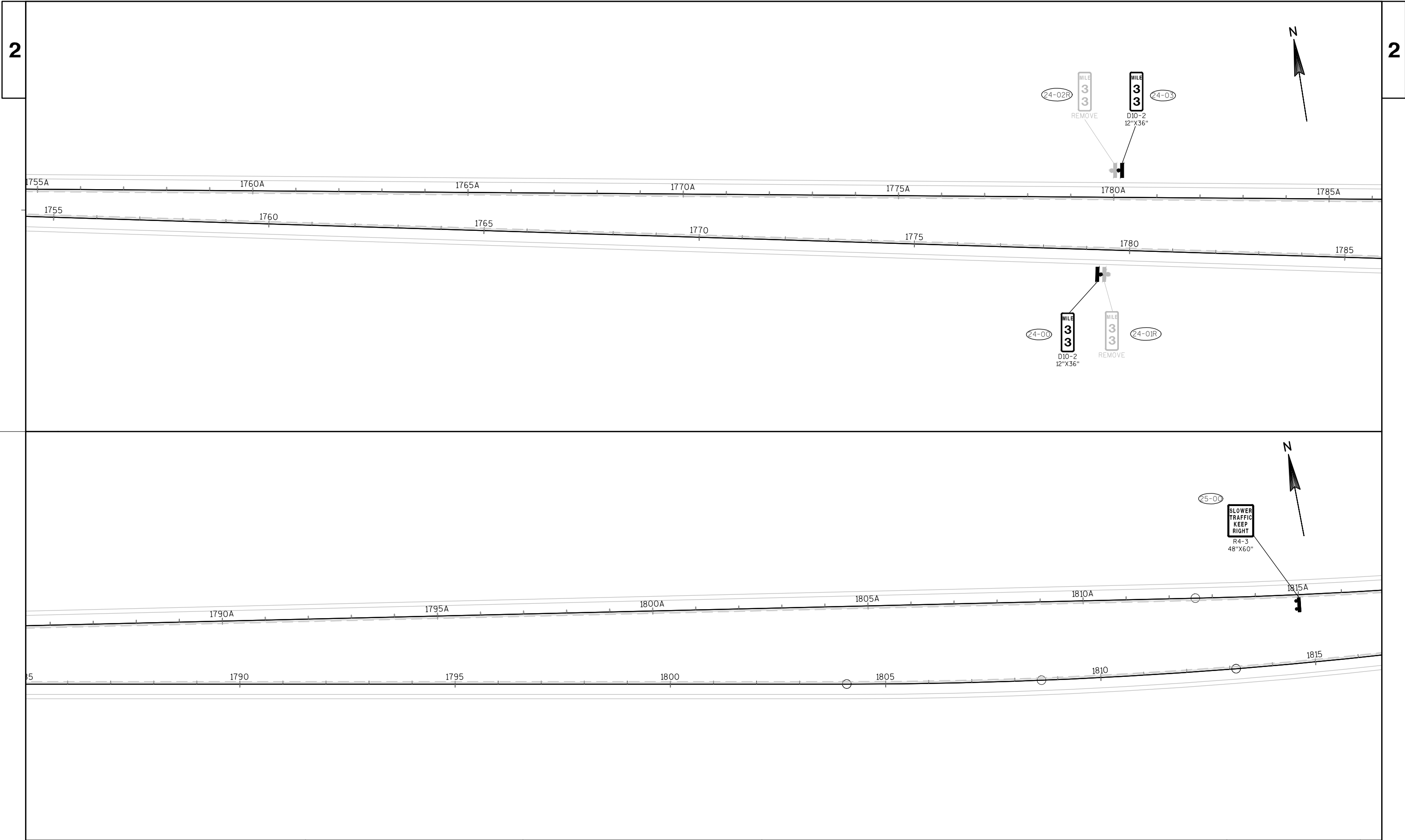


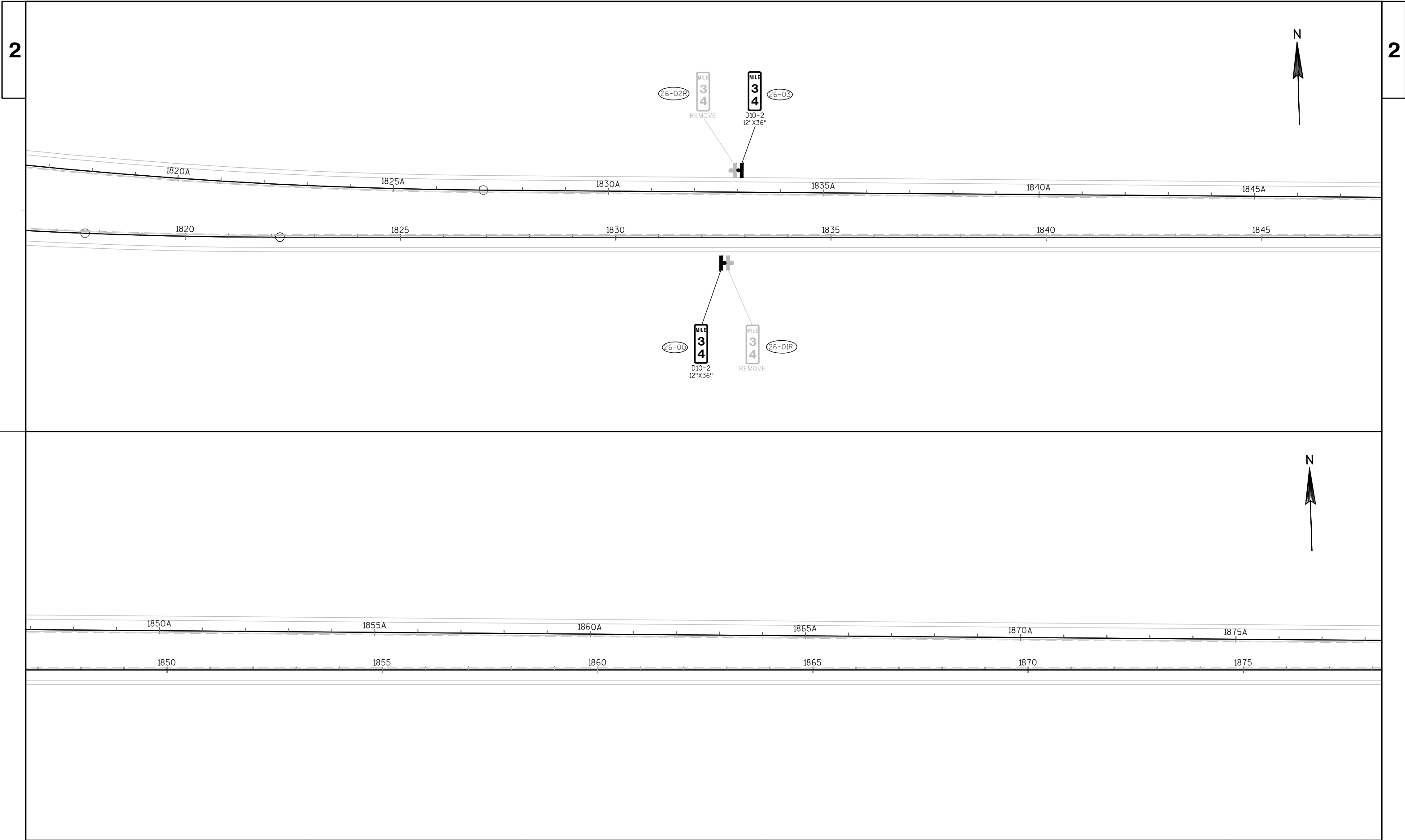


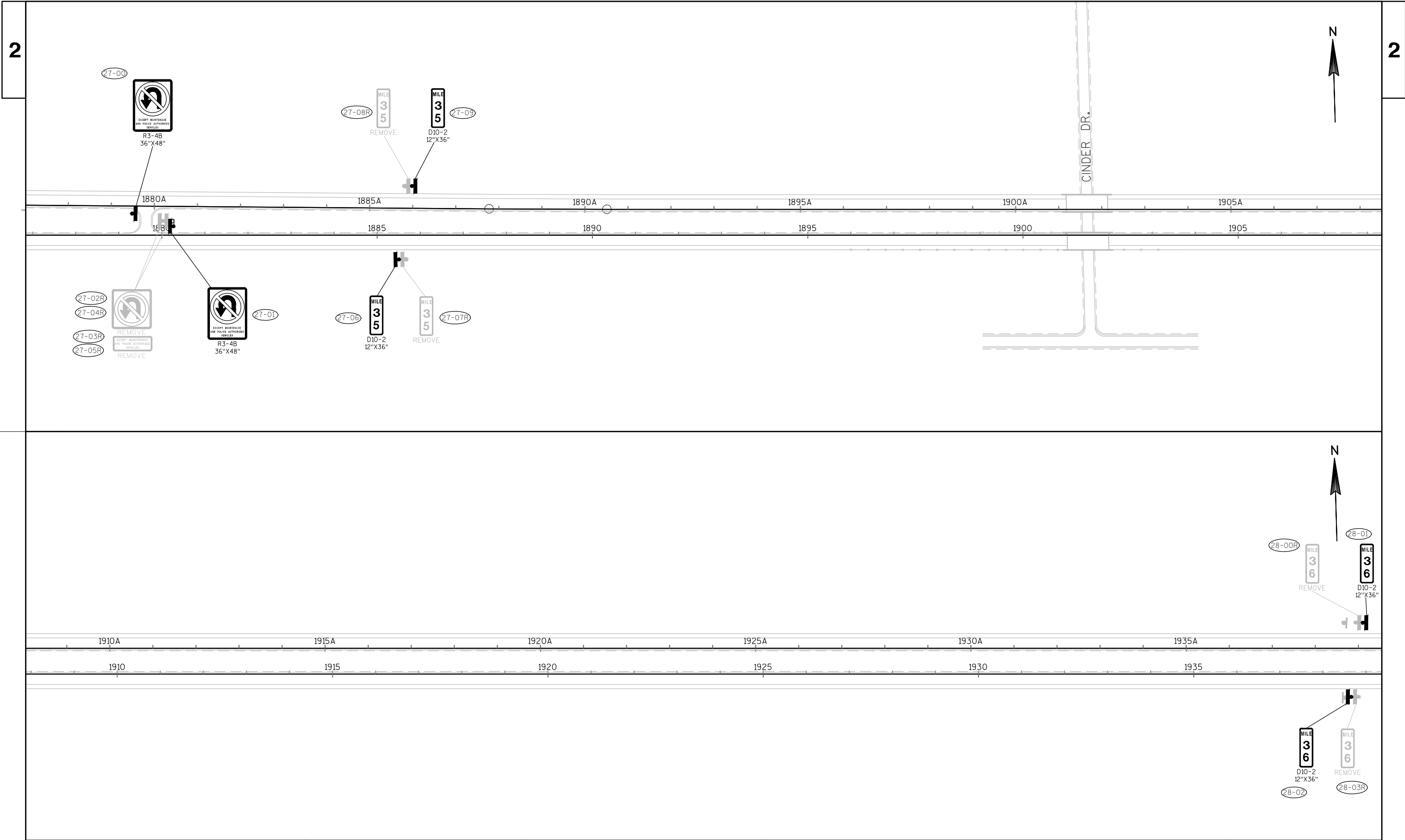


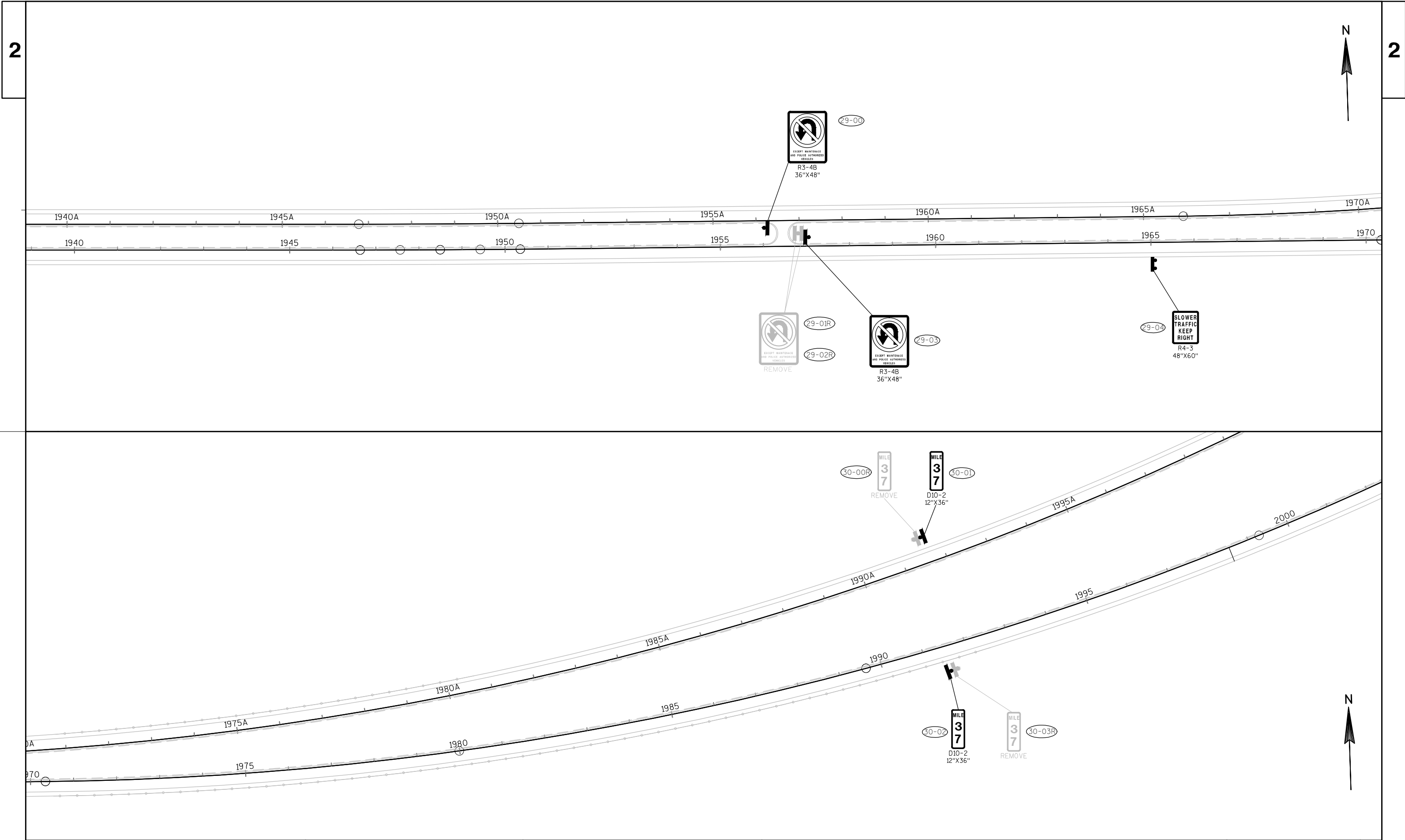


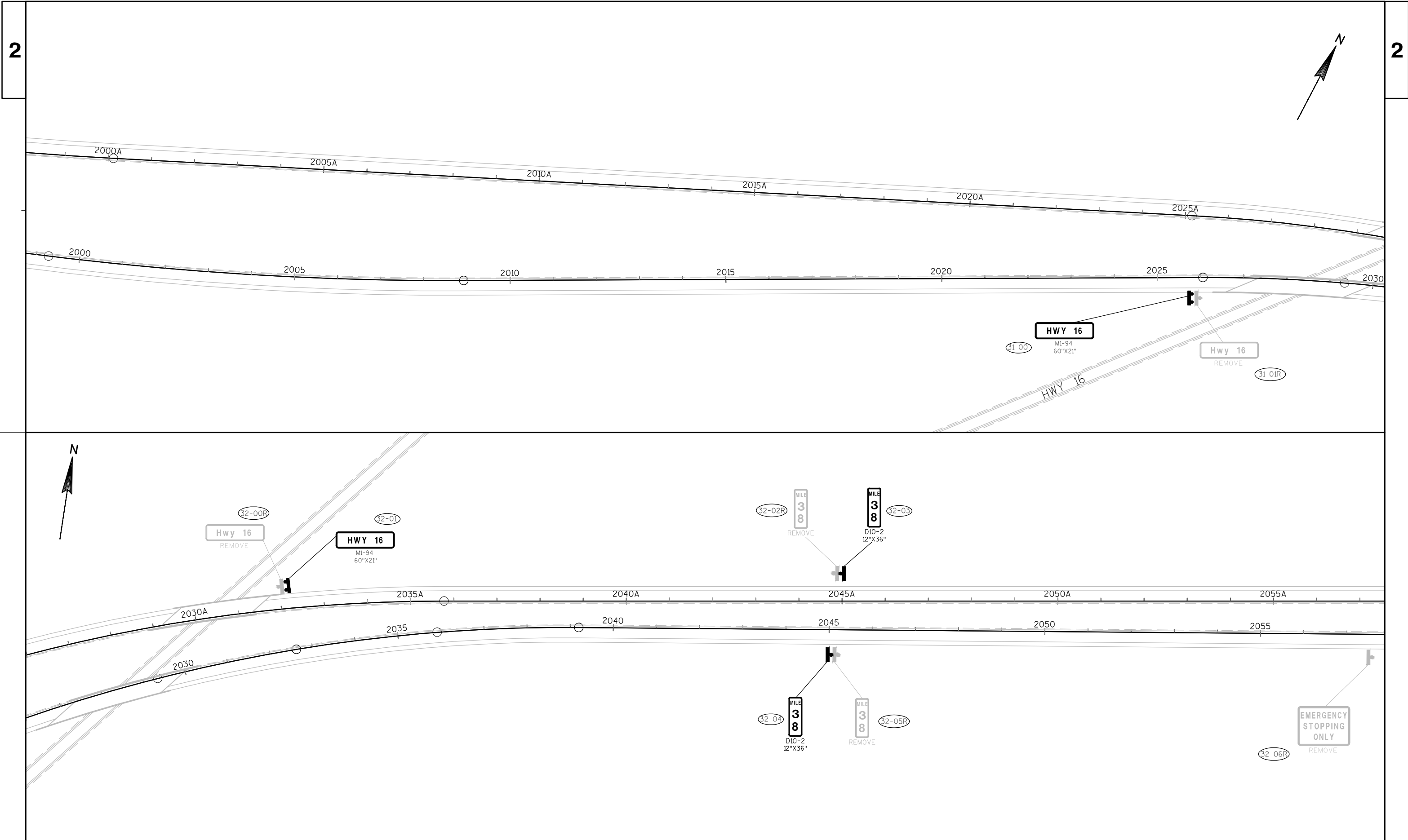


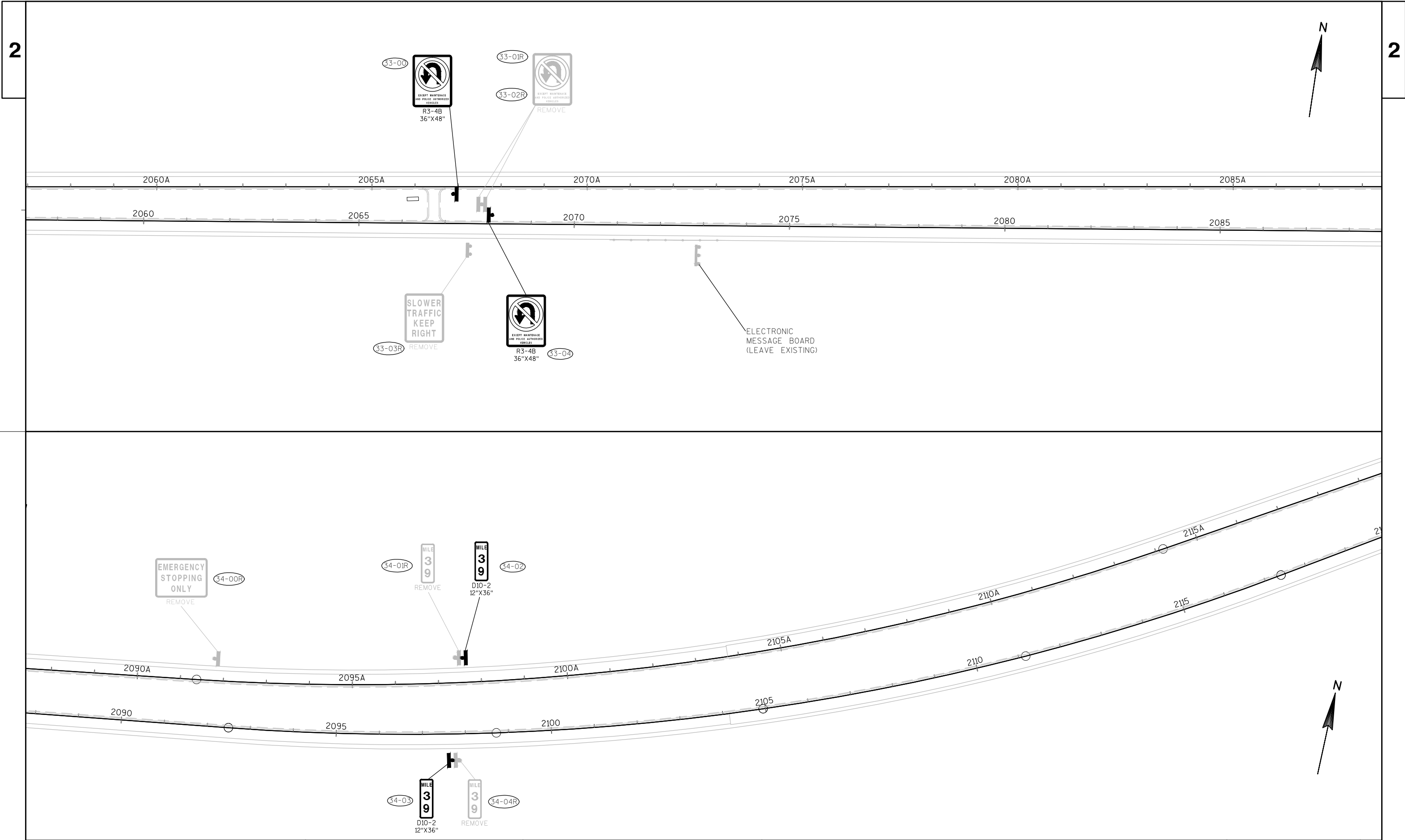


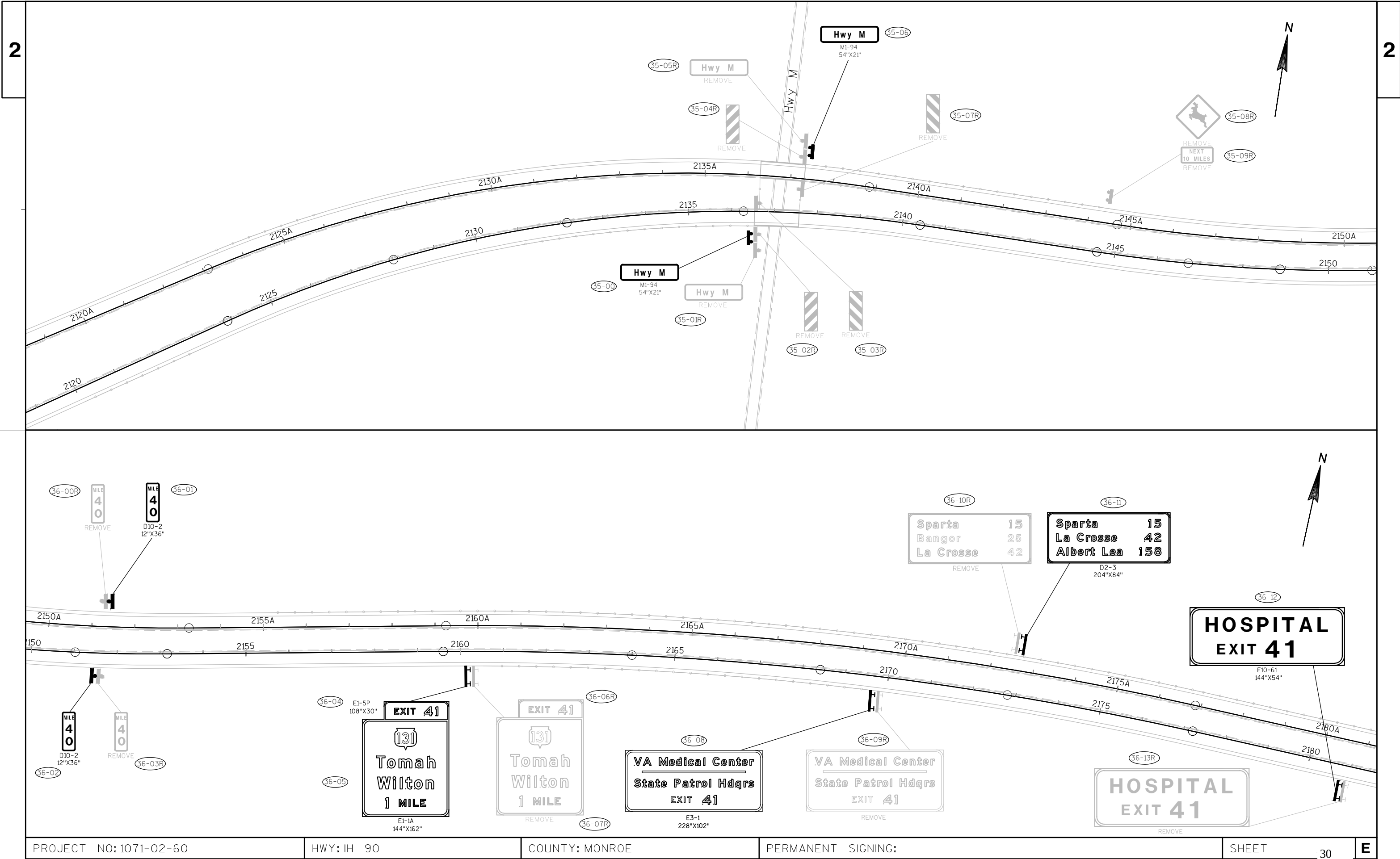


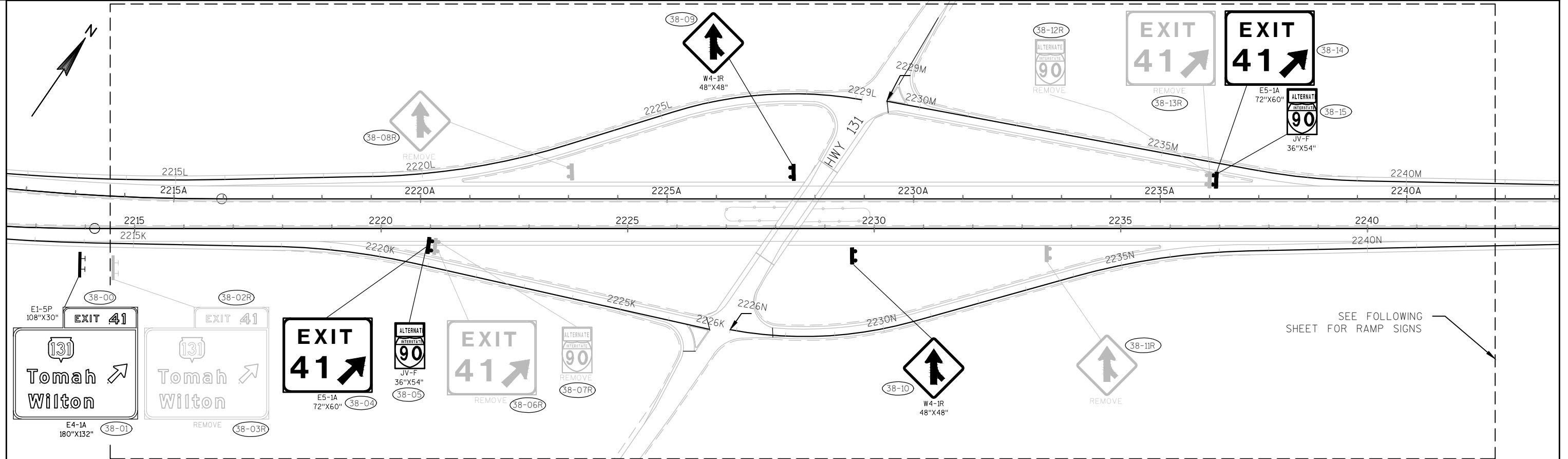


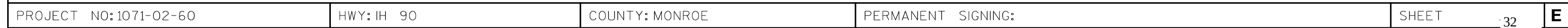


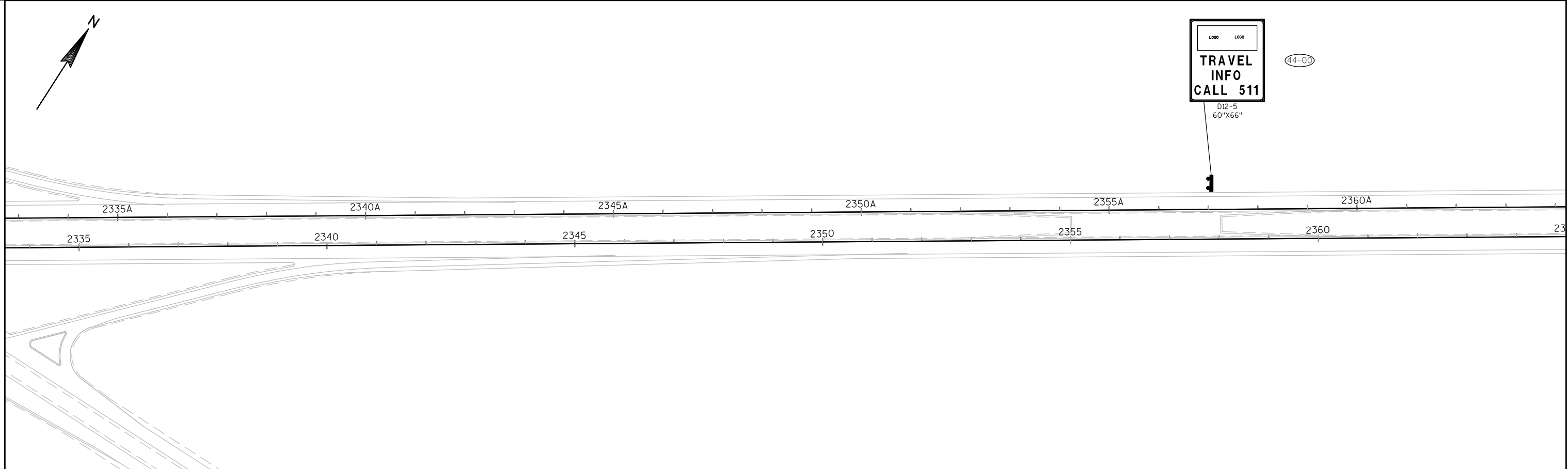
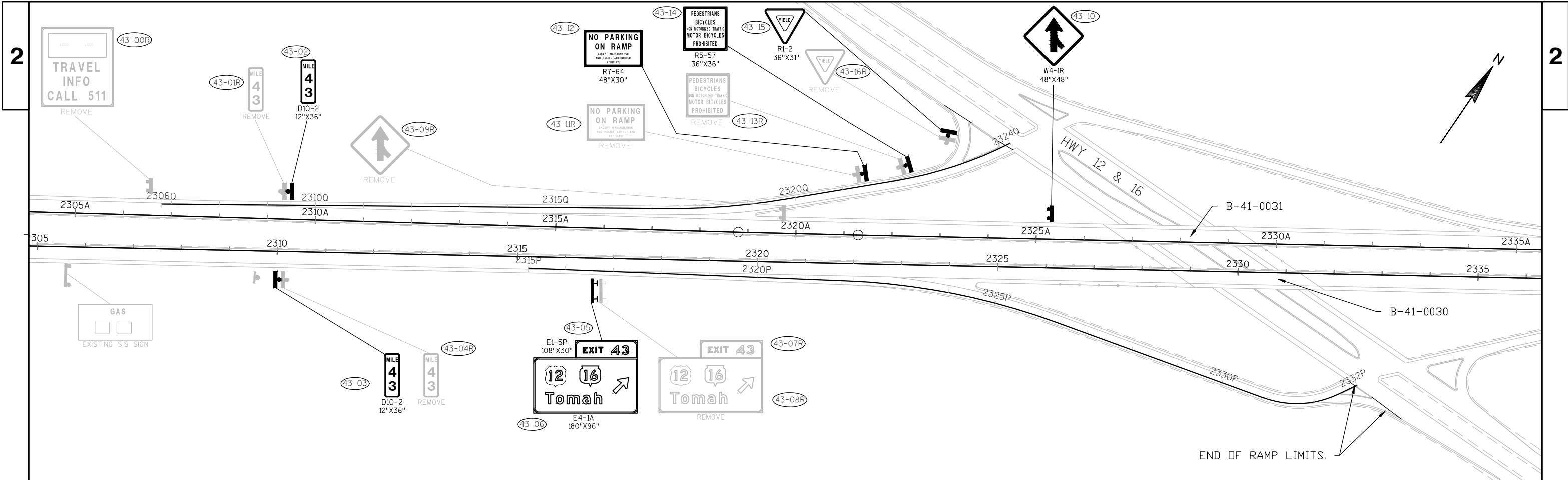


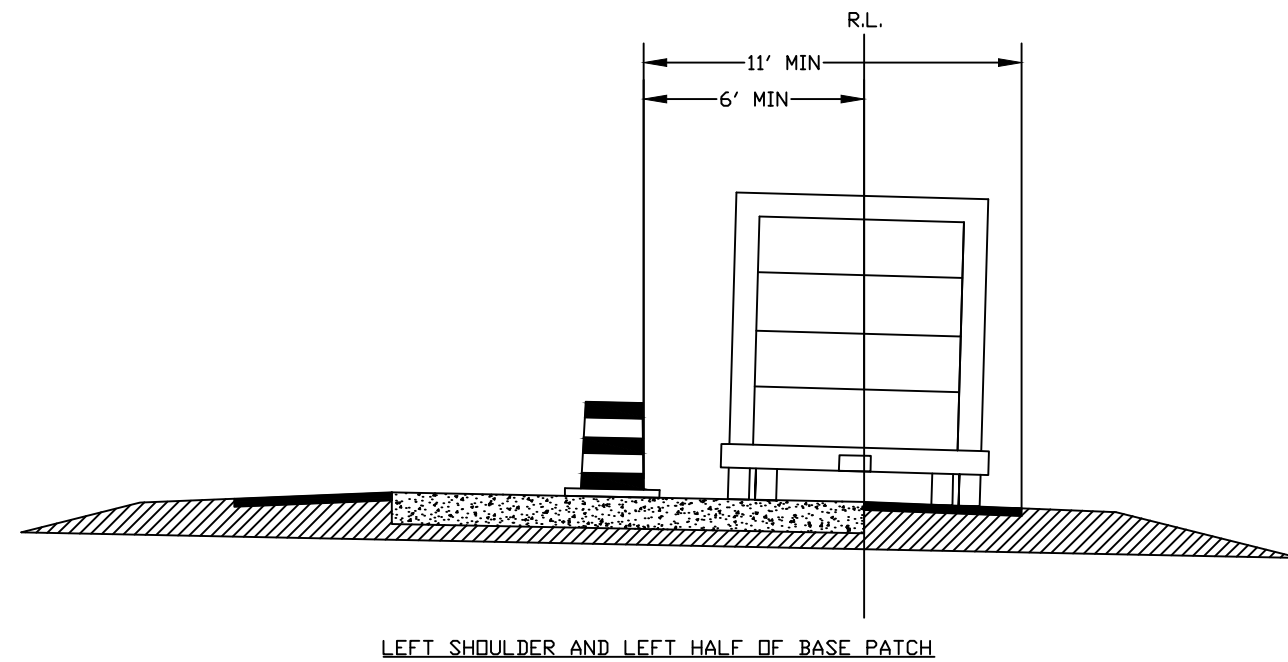
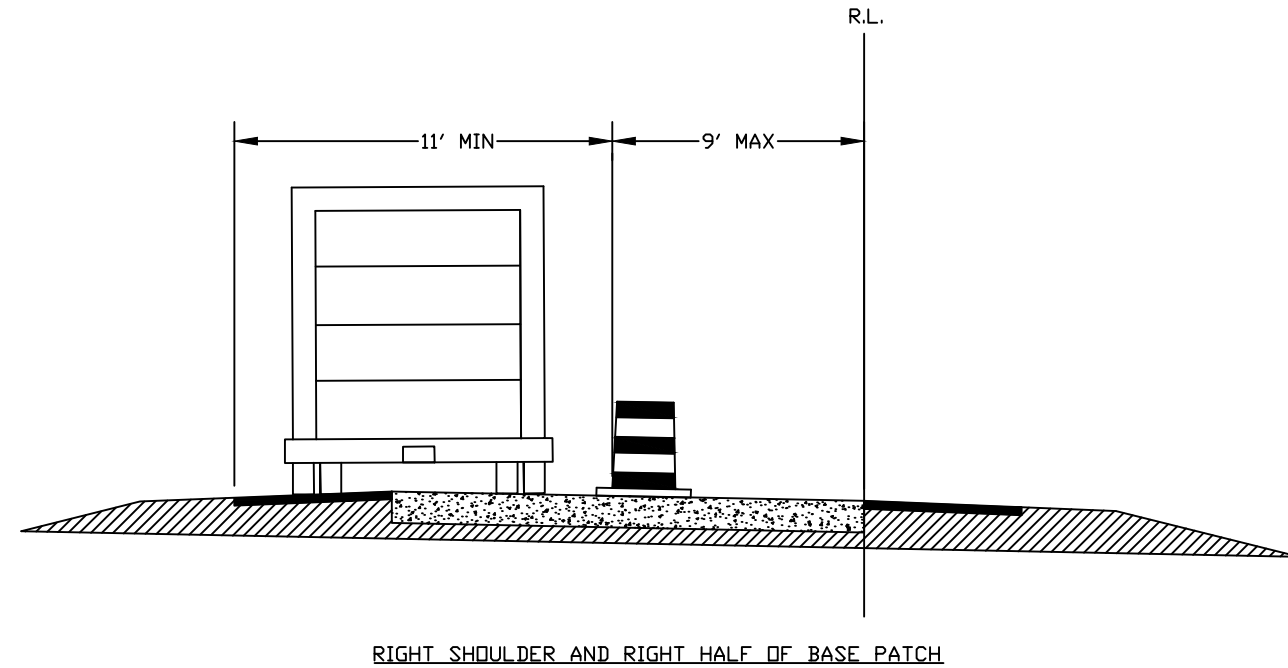




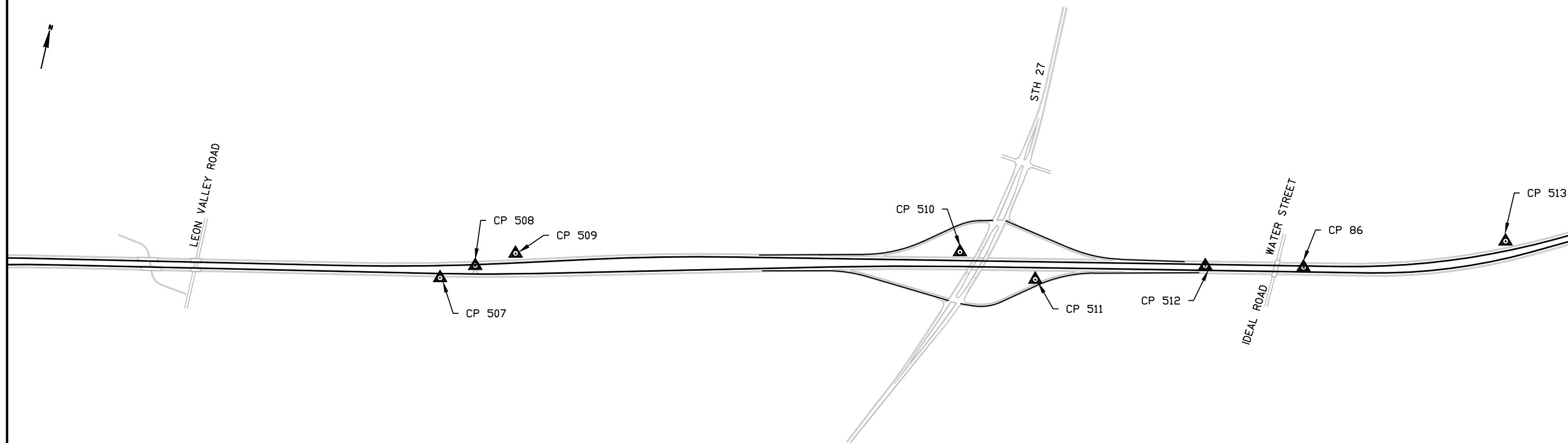
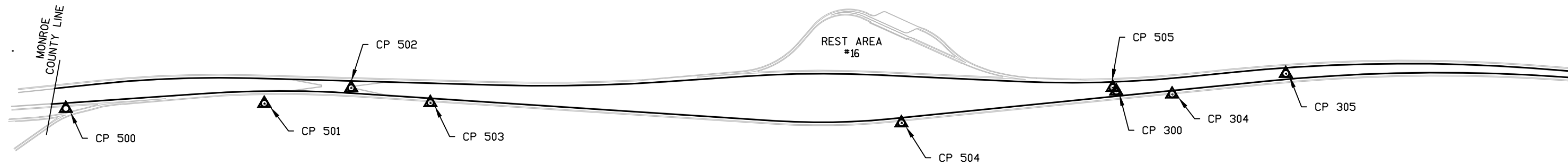


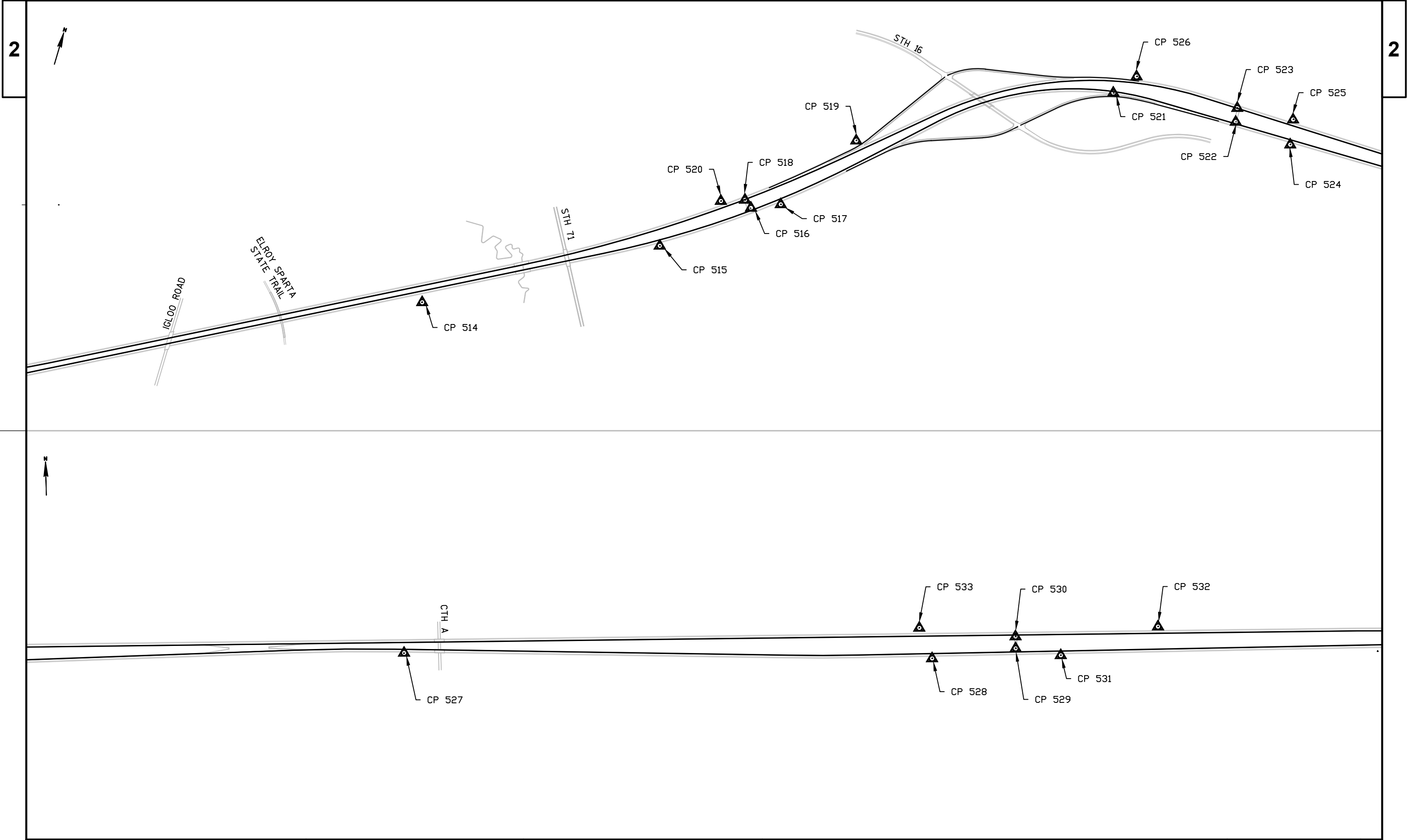


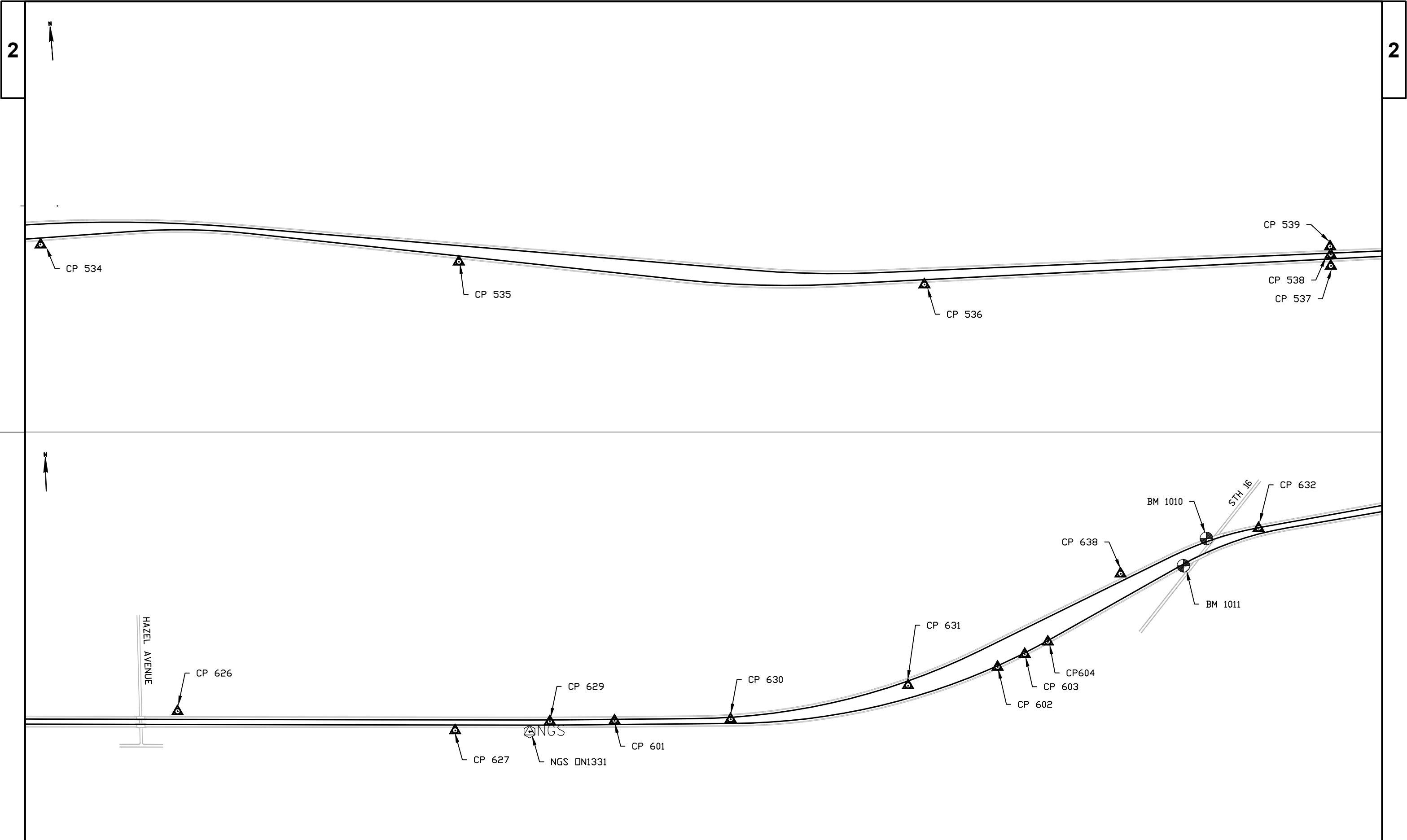


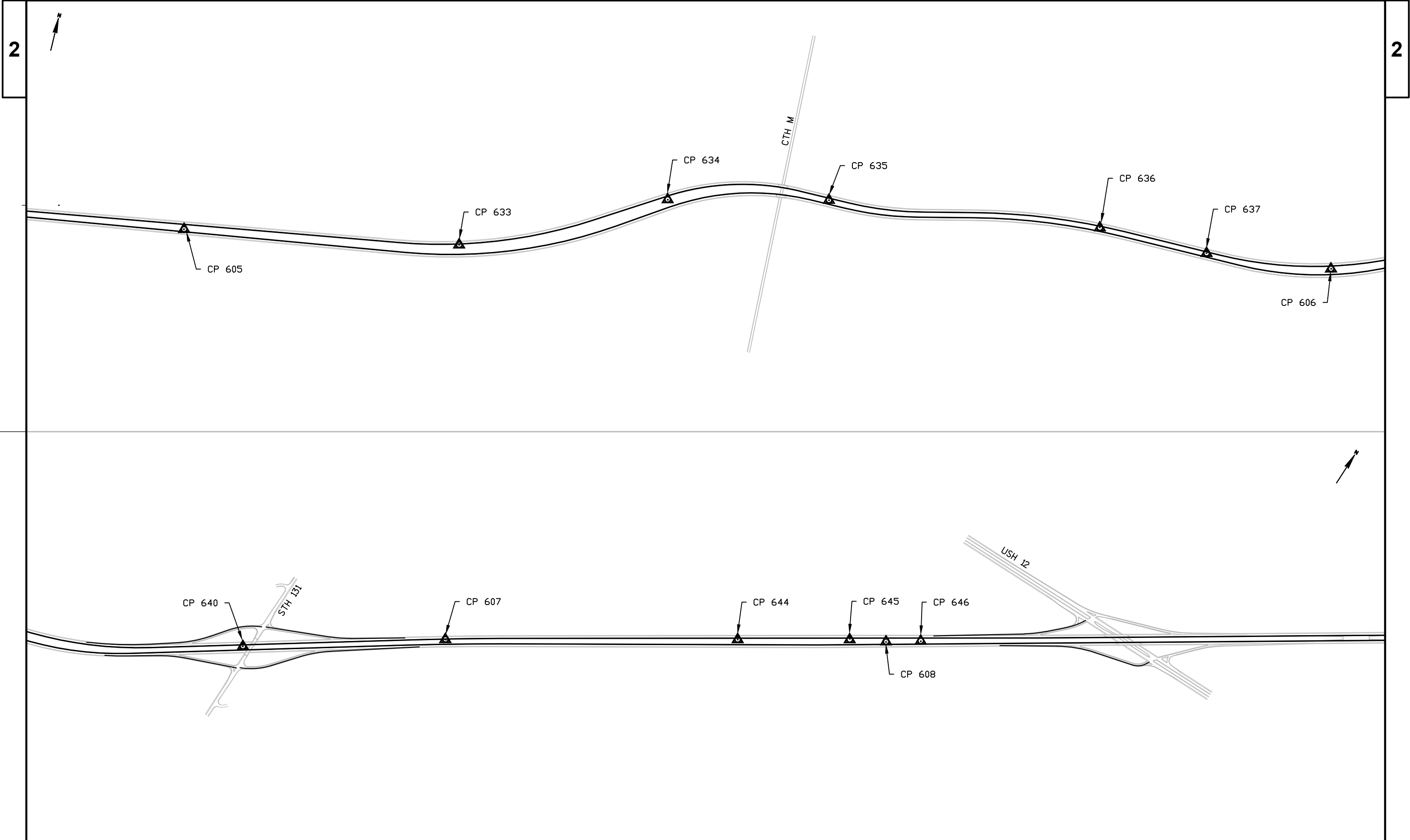


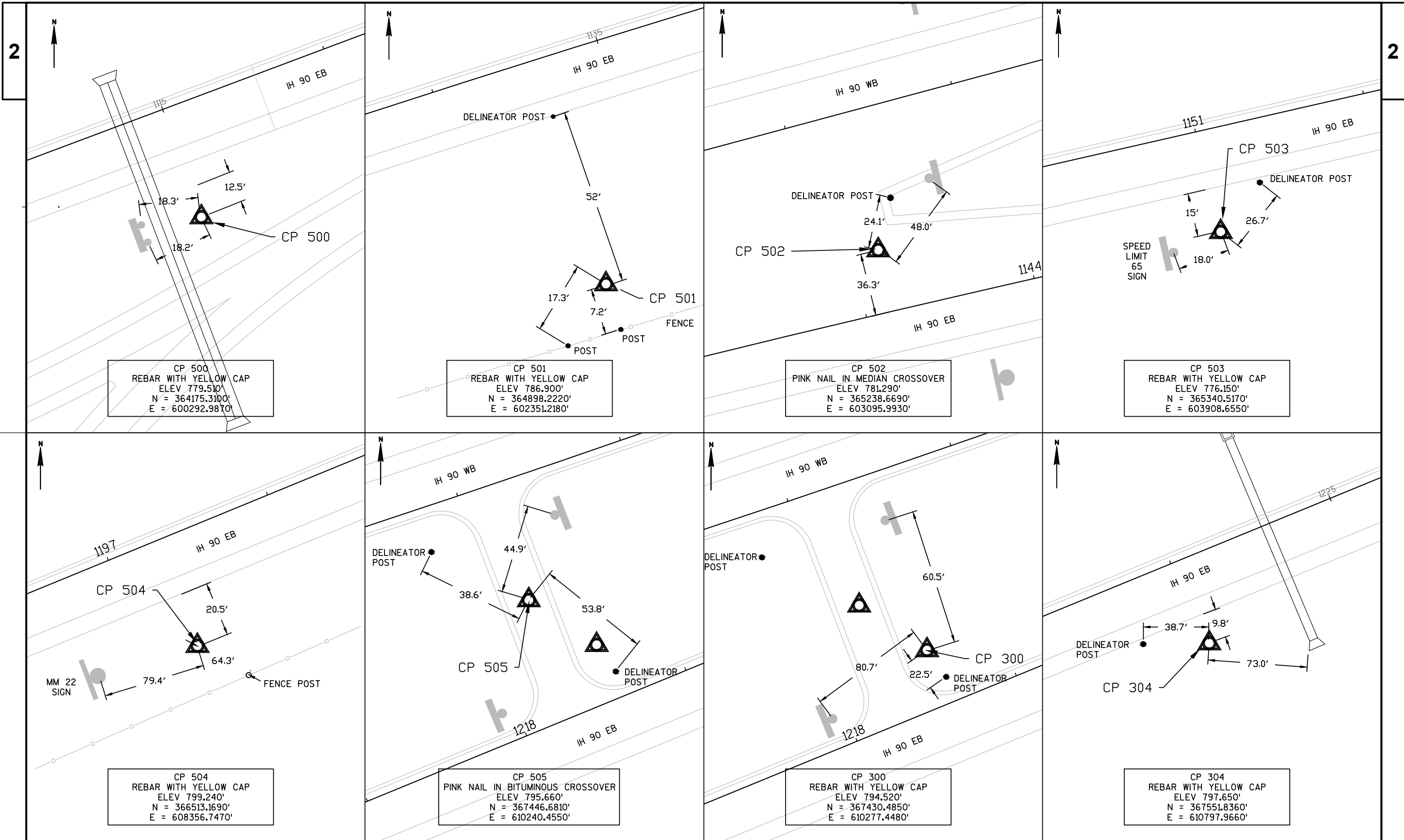
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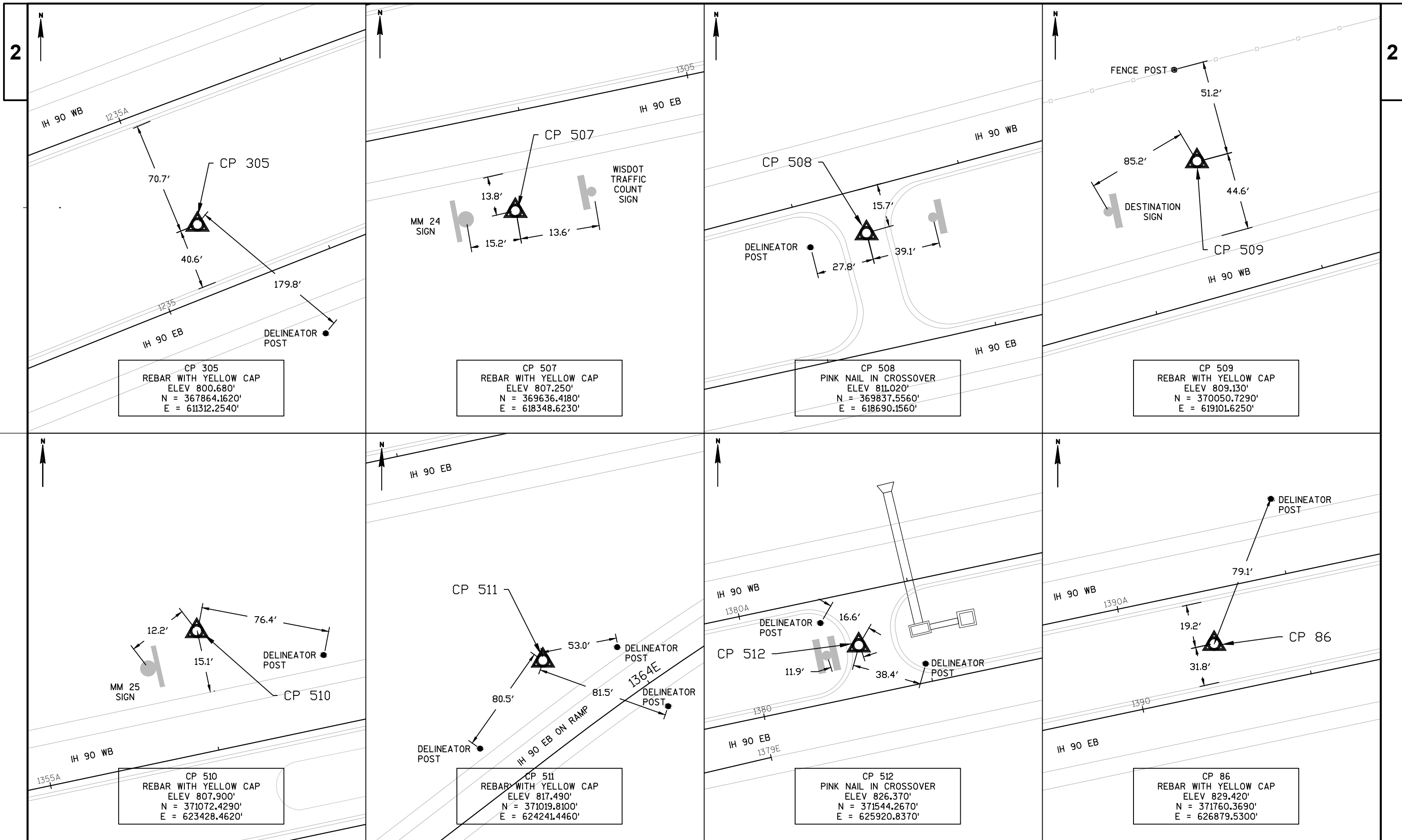












PROJECT NO:1071-02-60

HWY: IH 90

COUNTY: MONROE

ALIGNMENT TIES

SHEET

41

E

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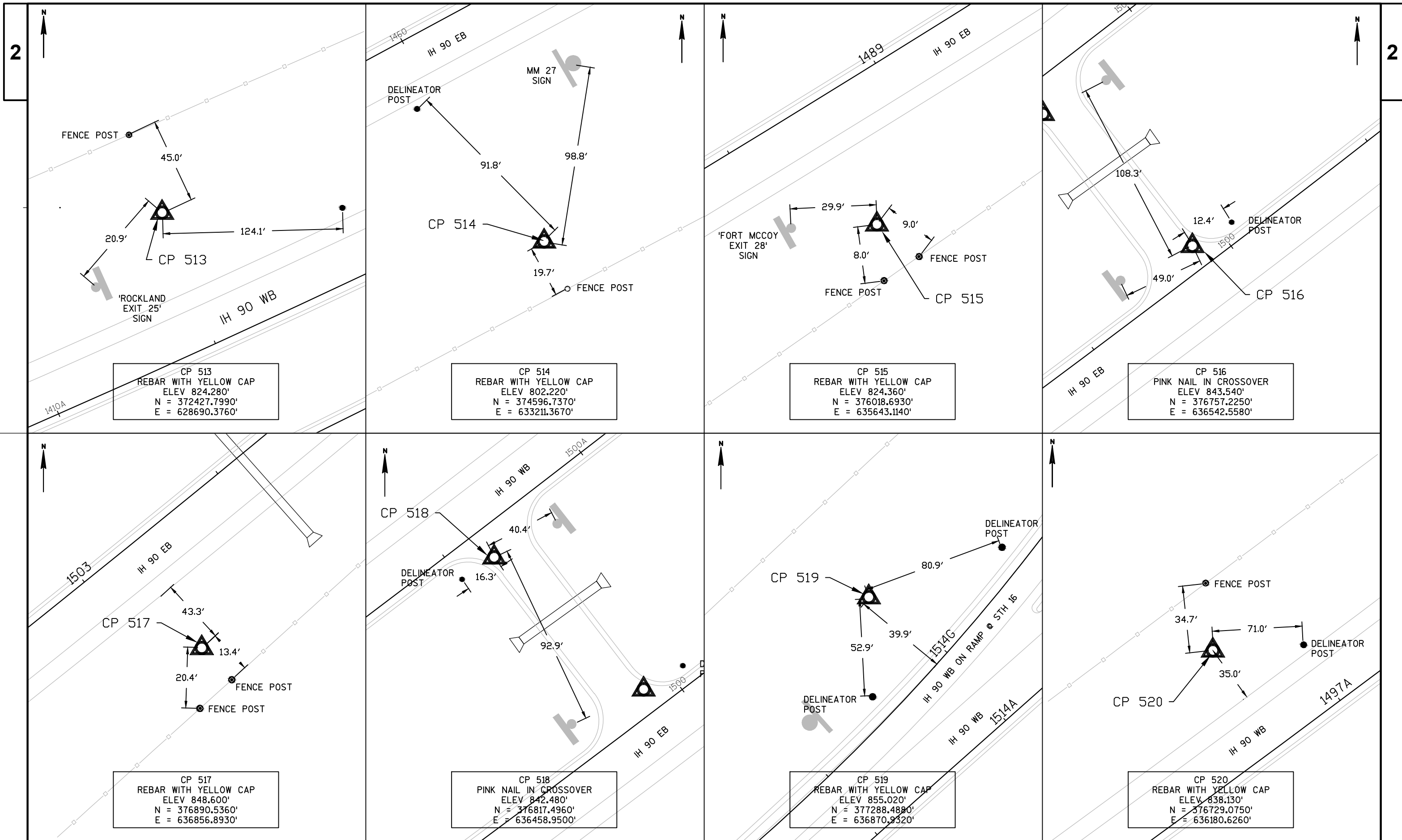
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PLOT BY : SCHUMAKER, NATHANIEL

PLOT NAME :

PLOT SCALE : 1:50-XREF

WISDOT/CADDs SHEET 41



PROJECT NO:1071-02-60

HWY: IH 90

COUNTY: MONROE

ALIGNMENT TIES

SHEET

42

E

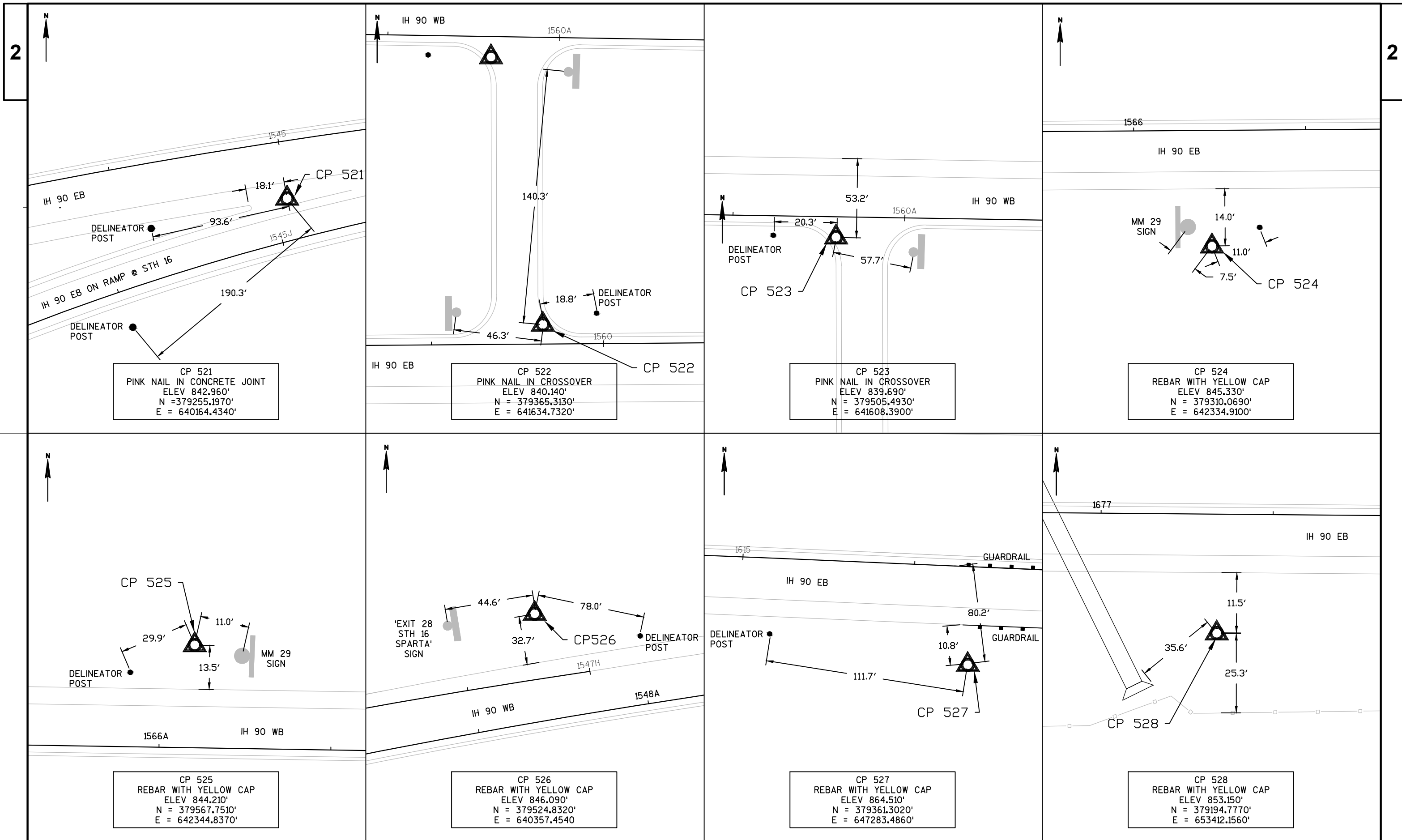
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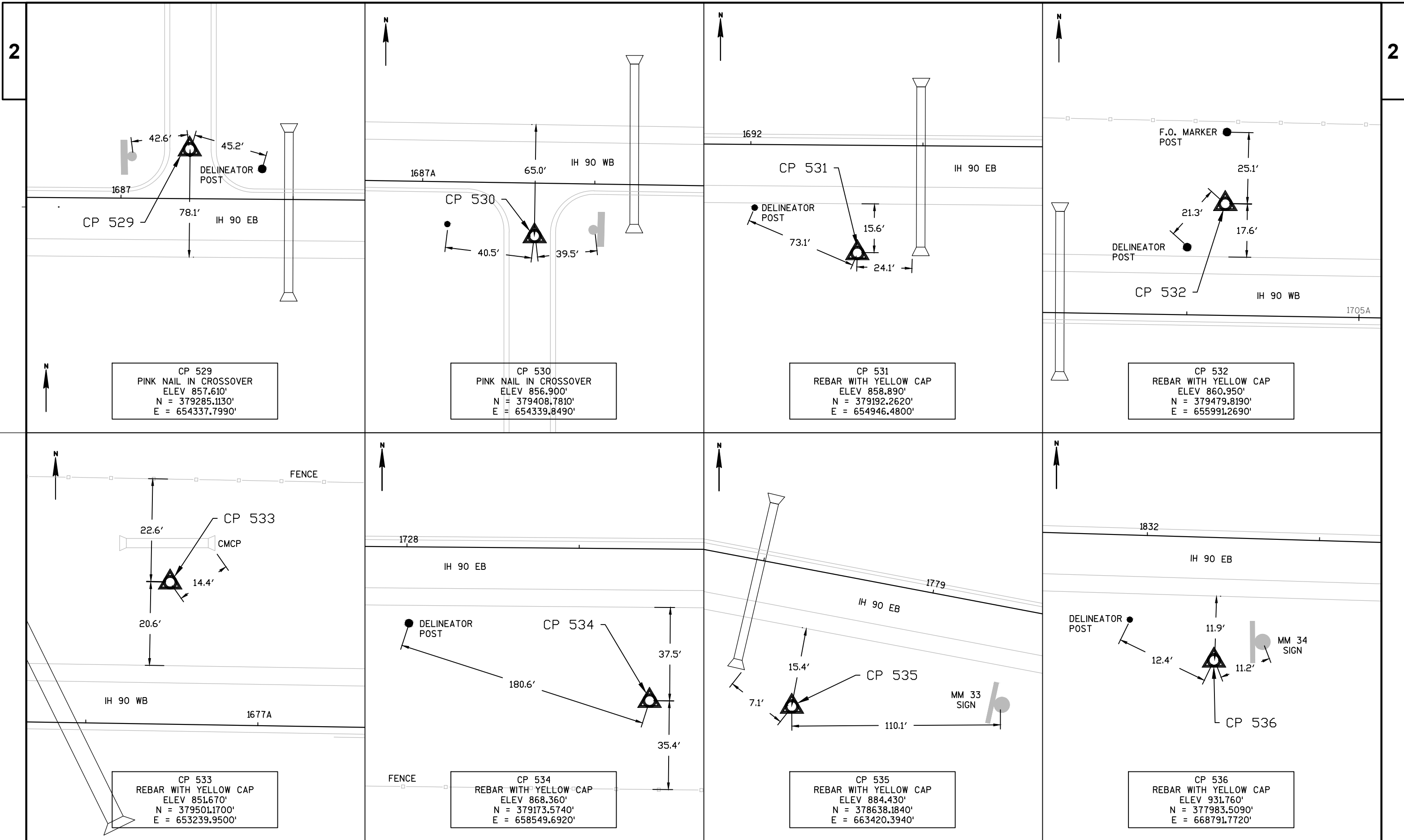
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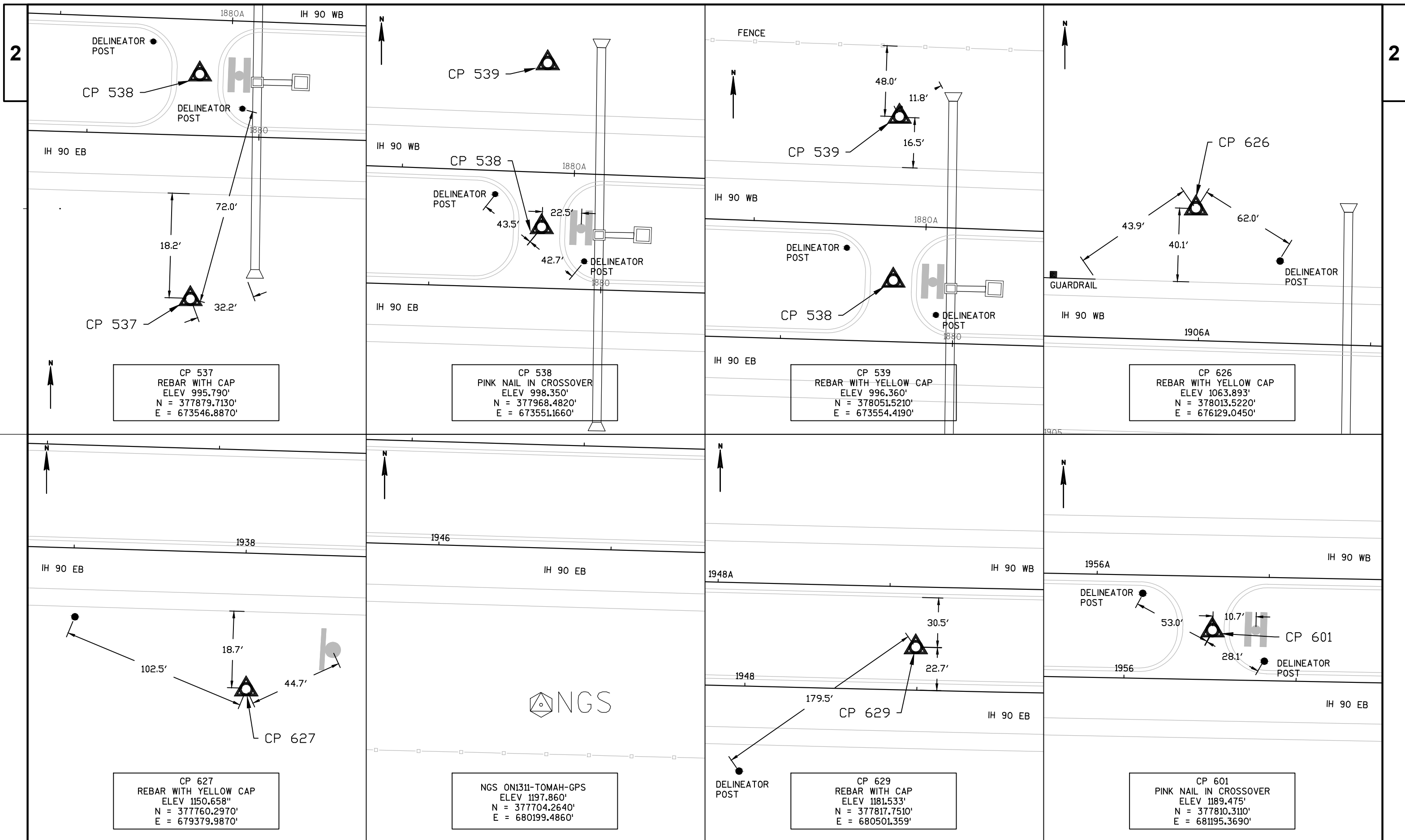
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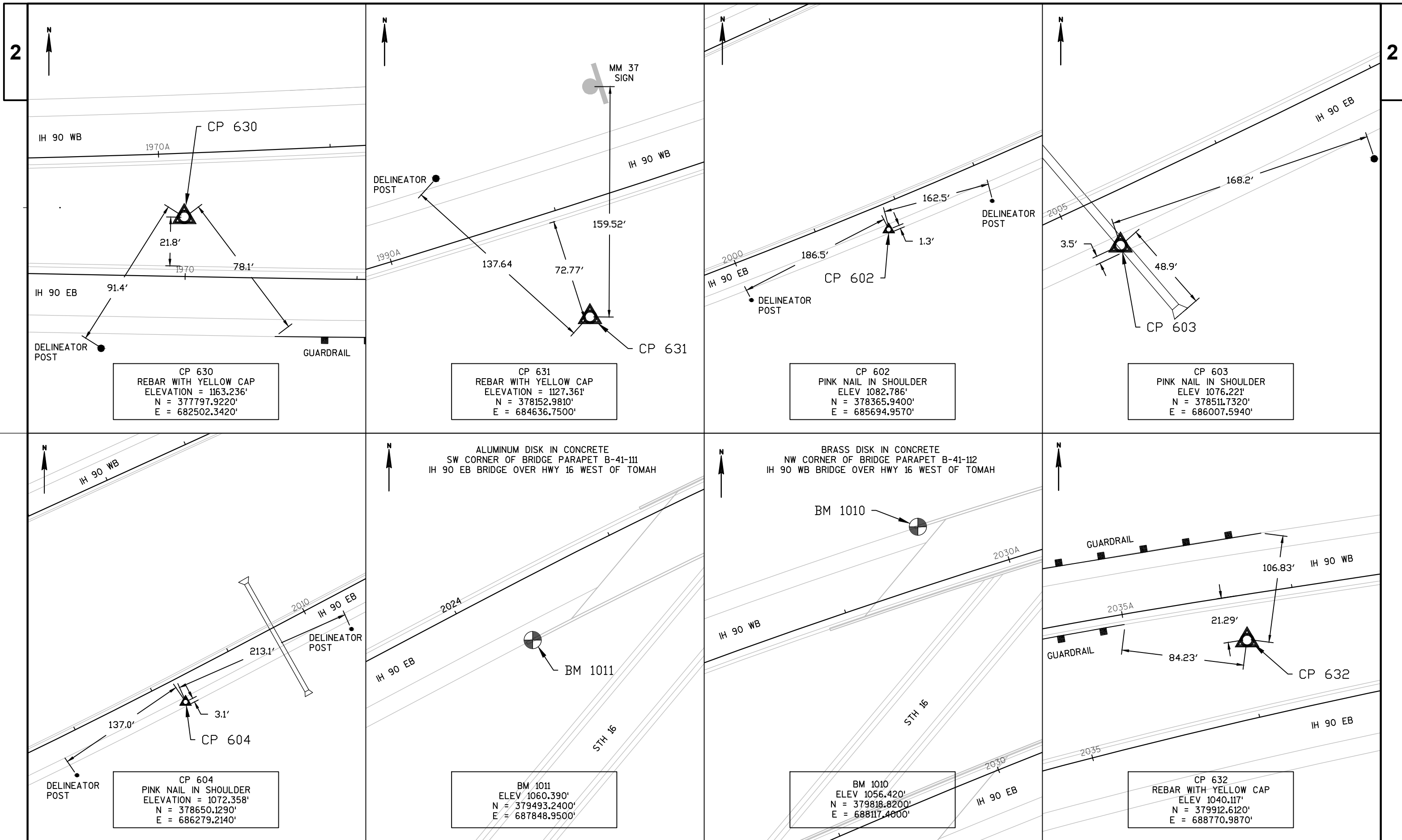
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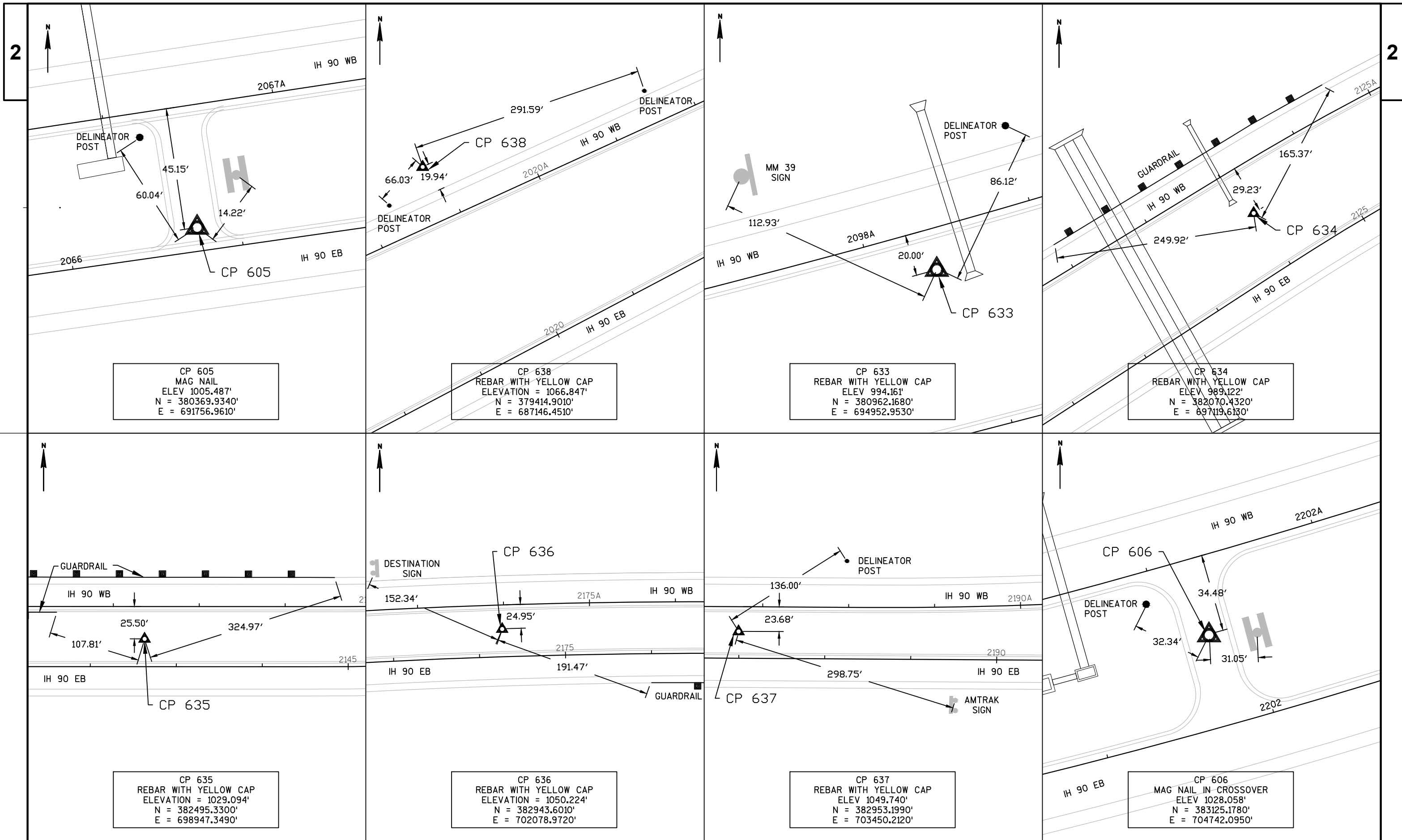
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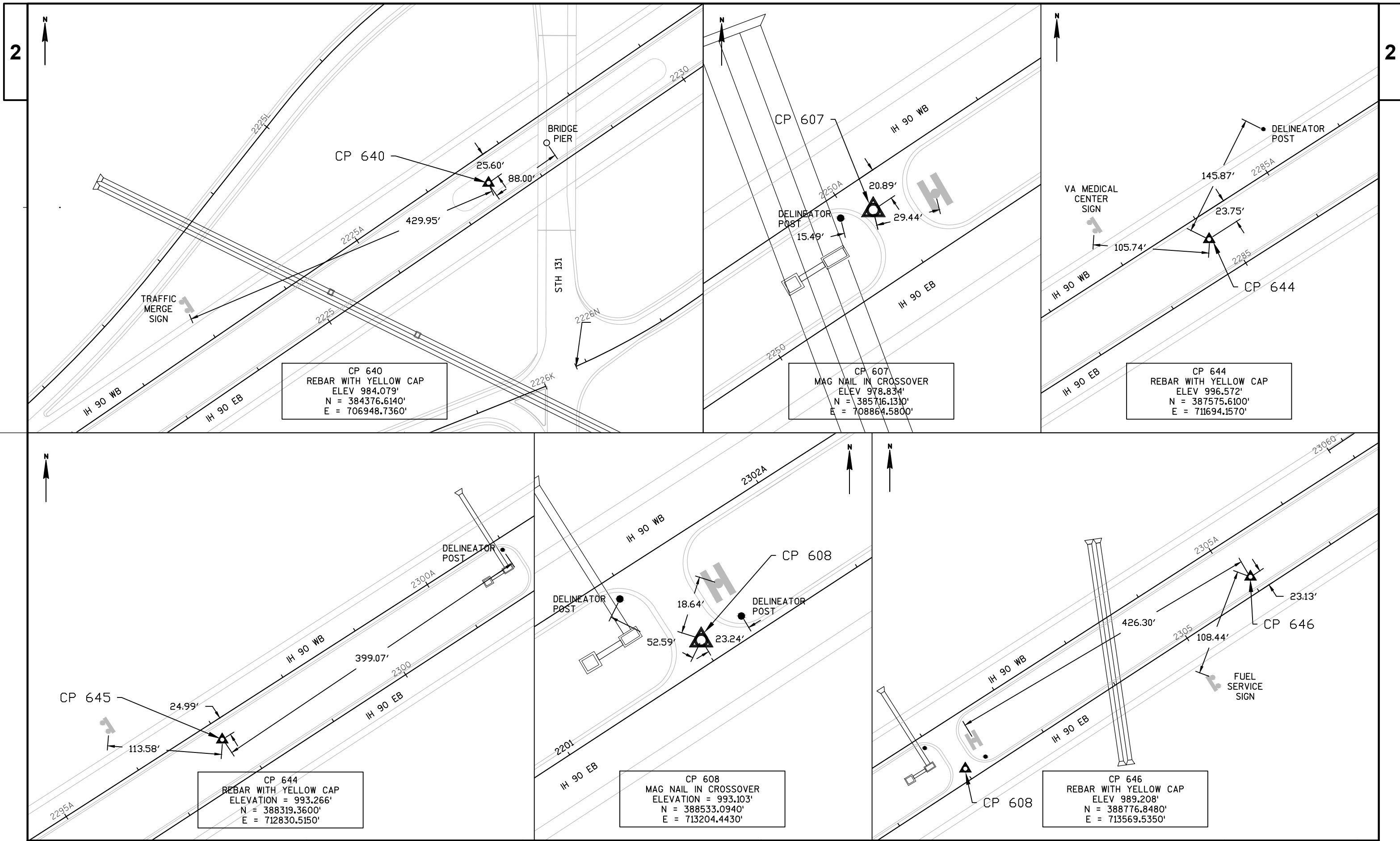












3

DATE 08DEC15		E S T I M A T E O F Q U A N T I T I E S			
LINE				1071-02-60	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	Clearing	STA	95.000	95.000
0020	201.0205	Grubbing	STA	30.000	30.000
0030	203.0100	Removing Small Pipe Culverts	EACH	12.000	12.000
0040	204.0100	Removing Pavement	SY	71,525.000	71,525.000
0050	205.0100	Excavation Common	CY	10.000	10.000
0060	208.0100	Borrow	CY	2,250.000	2,250.000
0070	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	924.000	924.000
0080	213.0100	Finishing Roadway (project) 01. 1071-02-60	EACH	1.000	1.000
0090	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,750.000	5,750.000
0100	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	95.000	95.000
0110	390.0403	Base Patching Concrete Shes	SY	545.000	545.000
0120	415.6000.S	Rout and Seal	LF	100,070.000	100,070.000
0130	416.0610	Drilled Tie Bars	EACH	50.000	50.000
0140	416.0620	Drilled Dowel Bars	EACH	3,760.000	3,760.000
0150	416.1715	Concrete Pavement Repair SHES	SY	1,560.000	1,560.000
0160	416.1725	Concrete Pavement Replacement SHES	SY	295.000	295.000
0170	455.0105	Asphaltic Material PG58-28	TON	900.000	900.000
0180	455.0605	Tack Coat	GAL	190.000	190.000
0190	460.1100	HMA Pavement Type E-0.3	TON	16,100.000	16,100.000
0200	460.1110	HMA Pavement Type E-10	TON	120.000	120.000
0210	465.0400	Asphaltic Shoulder Rumble Strips	LF	97,000.000	97,000.000
0220	520.8000	Concrete Collars for Pipe	EACH	249.000	249.000
0230	520.8700	Cleaning Culvert Pipes	EACH	154.000	154.000
0240	520.9700.S	Culvert Pipe Liners (size) 01. 18-Inch	LF	472.000	472.000
0250	520.9700.S	Culvert Pipe Liners (size) 02. 24-Inch	LF	158.000	158.000
0260	520.9700.S	Culvert Pipe Liners (size) 03. 30-Inch	LF	80.000	80.000
0270	520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH	7.000	7.000
0280	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	84.000	84.000
0290	522.0154	Culvert Pipe Reinforced Concrete Class III 54-Inch	LF	14.000	14.000
0300	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	5.000	5.000
0310	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	3.000	3.000
0320	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	3.000	3.000
0330	522.1054	Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	EACH	1.000	1.000
0340	524.0118	Culvert Pipe Salvaged 18-Inch	LF	104.000	104.000
0350	524.0124	Culvert Pipe Salvaged 24-Inch	LF	280.000	280.000
0360	524.0130	Culvert Pipe Salvaged 30-Inch	LF	81.000	81.000
0370	524.0136	Culvert Pipe Salvaged 36-Inch	LF	32.000	32.000
0380	524.0148	Culvert Pipe Salvaged 48-Inch	LF	128.000	128.000
0390	524.0154	Culvert Pipe Salvaged 54-Inch	LF	36.000	36.000
0400	524.0160	Culvert Pipe Salvaged 60-Inch	LF	18.000	18.000
0410	524.0618	Apron Endwalls for Culvert Pipe Salvaged 18-Inch	EACH	31.000	31.000
0420	524.0624	Apron Endwalls for Culvert Pipe Salvaged 24-Inch	EACH	29.000	29.000
0430	524.0630	Apron Endwalls for Culvert Pipe Salvaged 30-Inch	EACH	23.000	23.000

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DATE 08DEC15		E S T I M A T E O F Q U A N T I T I E S			
LINE					1071-02-60
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0440	524.0636	Apron Endwalls for Culvert Pipe Salvaged 36-Inch	EACH	20.000	20.000
0450	524.0642	Apron Endwalls for Culvert Pipe Salvaged 42-Inch	EACH	8.000	8.000
0460	524.0648	Apron Endwalls for Culvert Pipe Salvaged 48-Inch	EACH	20.000	20.000
0470	524.0654	Apron Endwalls for Culvert Pipe Salvaged 54-Inch	EACH	9.000	9.000
0480	524.0660	Apron Endwalls for Culvert Pipe Salvaged 60-Inch	EACH	5.000	5.000
0490	606.0300	Riprap Heavy	CY	50.000	50.000
0500	611.0430	Reconstructing Inlets	EACH	5.000	5.000
0510	611.0642	Inlet Covers Type MS	EACH	9.000	9.000
0520	611.3901	Inlets Median 1 Grate	EACH	5.000	5.000
0530	611.3904	Inlets Median 4 Grate	EACH	1.000	1.000
0540	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1071-02-60	EACH	1.000	1.000
0550	619.1000	Mobilization	EACH	1.000	1.000
0560	624.0100	Water	MGAL	23.410	23.410
0570	625.0500	Salvaged Topsoil	SY	35,500.000	35,500.000
0580	627.0200	Mulching	SY	35,500.000	35,500.000
0590	628.1504	Silt Fence	LF	1,400.000	1,400.000
0600	628.1520	Silt Fence Maintenance	LF	1,400.000	1,400.000
0610	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0620	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0630	628.7005	Inlet Protection Type A	EACH	27.000	27.000
0640	628.7504	Temporary Ditch Checks	LF	165.000	165.000
0650	628.7555	Culvert Pipe Checks	EACH	325.000	325.000
0660	629.0210	Fertilizer Type B	CWT	26.000	26.000
0670	630.0130	Seeding Mixture No. 30	LB	750.000	750.000
0680	630.0200	Seeding Temporary	LB	1,100.000	1,100.000
0690	633.5200	Markers Culvert End	EACH	325.000	325.000
0700	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	6.000	6.000
0710	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	105.000	105.000
0720	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	97.000	97.000
0730	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	56.000	56.000
0740	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	11.000	11.000
0750	635.0200	Sign Supports Structural Steel HS	LB	8,620.200	8,620.200
0760	635.0300	Sign Supports Replacing Base Connection Bolts	EACH	34.000	34.000
0770	636.0100	Sign Supports Concrete Masonry	CY	16.000	16.000
0780	636.0500	Sign Supports Steel Reinforcement	LB	958.000	958.000
0790	637.1220	Signs Type I Reflective SH	SF	3,829.830	3,829.830
0800	637.2210	Signs Type II Reflective H	SF	2,219.420	2,219.420
0810	637.2215	Signs Type II Reflective H Folding	SF	81.000	81.000
0820	637.2230	Signs Type II Reflective F	SF	242.000	242.000
0830	638.2601	Removing Signs Type I	EACH	29.000	29.000
0840	638.2602	Removing Signs Type II	EACH	214.000	214.000
0850	638.3000	Removing Small Sign Supports	EACH	255.000	255.000
0860	638.3100	Removing Structural Steel Sign Supports	EACH	24.000	24.000
0870	642.5201	Field Office Type C	EACH	1.000	1.000
0880	643.0200	Traffic Control Surveillance and Maintenance (project) 01. 1071-02-60	DAY	60.000	60.000
0890	643.0300	Traffic Control Drums	DAY	32,000.000	32,000.000
0900	643.0420	Traffic Control Barricades Type III	DAY	2,050.000	2,050.000

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DATE 08DEC15		E S T I M A T E O F Q U A N T I T I E S			
LINE		1071-02-60			
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0910	643.0705	Traffic Control Warning Lights Type A	DAY	4,050.000	4,050.000
0920	643.0715	Traffic Control Warning Lights Type C	DAY	2,050.000	2,050.000
0930	643.0800	Traffic Control Arrow Boards	DAY	120.000	120.000
0940	643.0900	Traffic Control Signs	DAY	3,800.000	3,800.000
0950	643.1050	Traffic Control Signs PCMS	DAY	120.000	120.000
0960	645.0120	Geotextile Fabric Type HR	SY	100.000	100.000
0970	646.0106	Pavement Marking Epoxy 4-Inch	LF	572,746.000	572,746.000
0980	646.0126	Pavement Marking Epoxy 8-Inch	LF	16,536.000	16,536.000
0990	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	361.000	361.000
1000	647.0746	Pavement Marking Diagonal Epoxy 24-Inch	LF	1,123.000	1,123.000
1010	650.8000	Construction Staking Resurfacing Reference	LF	242,771.000	242,771.000
1020	650.9910	Construction Staking Supplemental Control (project) 01. 1071-02-60	LS	1.000	1.000
1030	650.9920	Construction Staking Slope Stakes	LF	2,529.000	2,529.000
1040	690.0150	Sawing Asphalt	LF	373.000	373.000
1050	690.0250	Sawing Concrete	LF	18,057.000	18,057.000

3

From /To Station	Location	Common Excavation (item # 205.0100)		Salvaged / Unusable Pavement Material (4)	Available Material (5)	Marsh Excavation (6)	Rock Excavation (7)	Reduced Marsh in Fill (8)	Reduced EBS in Fill (9)	Expanded Marsh Backfill (10)	Expanded EBS Backfill (11)	Expanded Rock (12)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate + / - (14)	Waste	Borrow	Comment:
		Cut (2)	EBS Excavation (3)			(item #205.0500)	(item #205.0200)	Factor 0.60	Factor 0.80	Factor 1.50	Factor 1.30	Factor 1.10		Factor 1.25				
1139+91/1140+44	CROSSOVER # 1	0	0	0	0	0	0	0	0	0	0	0	12	15	-15	0	15	
00+00R/01+25R LT	CROSSOVER # 2	2	0	0	2	0	0	0	0	0	0	0	71	89	-87	0	87	
00+00R/01+25R RT	CROSSOVER # 2	1	0	0	1	0	0	0	0	0	0	0	29	36	-36	0	36	
00+00S/00+70S LT	CROSSOVER # 3	0	0	0	0	0	0	0	0	0	0	0	61	76	-76	0	76	
00+20S/00+70S RT	CROSSOVER # 3	0	0	0	0	0	0	0	0	0	0	0	70	88	-88	0	88	
00+20T/00+50T LT	CROSSOVER # 4	0	0	0	0	0	0	0	0	0	0	0	19	24	-24	0	24	
00+10T/00+50T RT	CROSSOVER # 4	0	0	0	0	0	0	0	0	0	0	0	19	24	-24	0	24	
00+10U/01+25U LT	CROSSOVER # 5	1	0	0	1	0	0	0	0	0	0	0	84	105	-103	0	103	
00+00U/01+25U RT	CROSSOVER # 5	0	0	0	0	0	0	0	0	0	0	0	41	52	-51	0	51	
00+00V/01+75V LT	CROSSOVER # 6	0	0	0	0	0	0	0	0	0	0	0	280	350	-350	0	350	
00+00V/01+75V RT	CROSSOVER # 6	1	0	0	1	0	0	0	0	0	0	0	288	360	-359	0	359	
00+00W/01+97.21W LT	CROSSOVER # 7	1	0	0	1	0	0	0	0	0	0	0	27	34	-33	0	33	
00+00W/01+97.21W RT	CROSSOVER # 7	0	0	0	0	0	0	0	0	0	0	0	43	54	-54	0	54	
00+00X/00+60X LT	CROSSOVER # 8	0	0	0	0	0	0	0	0	0	0	0	73	91	-91	0	91	
00+10X/00+60X RT	CROSSOVER # 8	0	0	0	0	0	0	0	0	0	0	0	17	21	-21	0	21	
00+10Y/00+50Y LT	CROSSOVER # 9	2	0	0	2	0	0	0	0	0	0	0	6	7	-6	0	6	
00+10Y/00+50Y RT	CROSSOVER # 9	0	0	0	0	0	0	0	0	0	0	0	14	17	-17	0	17	
2004+75/2005+25	CULVERT EXTENSION	0	0	0	0	0	0	0	0	0	0	0	108	135	-135	0	135	
00+00Z/00+70Z LT	CROSSOVER #10	0	0	0	0	0	0	0	0	0	0	0	44	55	-55	0	55	
00+10Z/00+70Z RT	CROSSOVER #10	0	0	0	0	0	0	0	0	0	0	0	13	16	-16	0	16	
00+10AA/00+90AA LT	CROSSOVER #11	0	0	0	0	0	0	0	0	0	0	0	52	65	-65	0	65	
00+10AA/00+90AA RT	CROSSOVER #11	0	0	0	0	0	0	0	0	0	0	0	238	298	-297	0	297	
00+10BB/00+50BB LT	CROSSOVER #12	0	0	0	0	0	0	0	0	0	0	0	21	26	-26	0	26	
00+10BB/00+50BB RT	CROSSOVER #12	0	0	0	0	0	0	0	0	0	0	0	26	32	-32	0	32	
00+10CC/00+60CC LT	CROSSOVER #13	0	0	0	0	0	0	0	0	0	0	0	68	85	-85	0	85	
00+10CC/00+60CC RT	CROSSOVER #13	0	0	0	0	0	0	0	0	0	0	0	66	82	-82	0	82	
		9	0	0	9	0	0	0	0	0	0	0	1,789	2,236	-2,227	0	2,227	
GRAND TOTAL		9.41	0.00	0.00	9.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,788.87	2,236.09	-2,226.68	0.00	2,226.68	
Total Common Exc		9.41																

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Marsh Excavation - to be backfilled with Select Borrow Material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well. Item number 20505
7) Rock Excavation item number 205.0200
8) Reduced Marsh in Fill - Excavated Marsh material is usable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
9) Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
10) Expanded Marsh Backfill - This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item number 208.1100
11) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
12) Expanded Rock - Factor = 1.1
13) Expanded Fill. Factor = 1.25
Depending on selections:
Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor
14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

3

CLEARING & GRUBBING						
STATION		SIDE OF MAINLINE	201.0105 CLEARING STA	201.0205 GRUBBING STA	COMMENTS	
EASTBOUND						
1114+00	- 1116+00	LEFT	2	-	MEDIAN	
1125+00	- 1127+00	LEFT	2	-	MEDIAN	
1165+00	- 1167+00	RIGHT	2	-	OUTSIDE FORESLOPE	
1336+00	- 1337+00	RIGHT	1	-	OUTSIDE FORESLOPE	
1340+00	- 1341+00	RIGHT	1	-	OUTSIDE FORESLOPE	
1497+00	- 1498+00	LEFT	1	1	**MEDIAN CROSSOVER	
1500+00	- 1502+00	LEFT	2	2	**MEDIAN CROSSOVER	
1552+00	- 1554+00	RIGHT	2	-	OUTSIDE FORESLOPE	
1557+00	- 1559+00	LEFT	2	2	**MEDIAN CROSSOVER	
1560+00	- 1562+00	LEFT	2	2	**MEDIAN CROSSOVER	
1618+00	- 1620+00	LEFT	2	-	MEDIAN	
1685+00	- 1687+00	LEFT	2	2	**MEDIAN CROSSOVER	
1688+00	- 1690+00	LEFT	2	2	**MEDIAN CROSSOVER	
1766+00	- 1768+00	RIGHT	2	-	OUTSIDE FORESLOPE	
1899+00	- 1901+00	LEFT	2	-	MEDIAN	
1902+00	- 1905+00	LEFT	3	-	MEDIAN	
1974+00	- 1976+00	RIGHT	2	-	OUTSIDE FORESLOPE	
2027+00	- 2029+00	RIGHT	2	-	MEDIAN	
2132+00	- 2136+00	LEFT	4	-	MEDIAN	
2137+00	- 2141+00	LEFT	4	-	MEDIAN	
EASTBOUND TOTALS			42	11		
WESTBOUND						
1336+00A	- 1337+00A	LEFT	1	-	OUTSIDE FORESLOPE	
1497+00A	- 1499+00A	RIGHT	2	1	**MEDIAN CROSSOVER	
1499+00A	- 1502+00A	RIGHT	3	3	**MEDIAN CROSSOVER	
1557+00A	- 1560+00A	RIGHT	3	3	**MEDIAN CROSSOVER	
1560+00A	- 1563+00A	RIGHT	3	3	**MEDIAN CROSSOVER	
1618+00A	- 1620+00A	RIGHT	2	-	MEDIAN	
1685+00A	- 1688+00A	RIGHT	3	3	**MEDIAN CROSSOVER	
1688+00A	- 1691+00A	RIGHT	3	3	**MEDIAN CROSSOVER	
1853+00A	- 1855+00A	LEFT	2	-	OUTSIDE FORESLOPE	
1899+00A	- 1902+00A	RIGHT	3	-	MEDIAN	
1902+00A	- 1906+00A	RIGHT	4	-	MEDIAN	
1974+00A	- 1976+00A	LEFT	2	-	OUTSIDE FORESLOPE	
2137+00A	- 2139+00A	RIGHT	2	-	MEDIAN	
2134+00A	- 2136+00A	LEFT	2	-	MEDIAN	
2138+00A	- 2139+00A	LEFT	1	-	MEDIAN	
2147+00A	- 2149+00A	RIGHT	2	-	MEDIAN	
2230+00A	- 2232+00A	LEFT	2	-	OUTSIDE FORESLOPE	
2300+00A	- 2302+00A	RIGHT	2	-	MEDIAN	
2310+00A	- 2312+00A	LEFT	2	-	OUTSIDE FORESLOPE	
2322+00P	- 2324+00P	LEFT	2	-	OUTSIDE FORESLOPE	
WESTBOUND TOTALS			46	16		
UNDISTRIBUTED			7	3		
GRAND TOTAL			95	30		

**THE CLEARING AND GRUBBING LIMITS SHALL INCLUDE THE ENTIRE WIDTH OF THE MEDIAN.

AGGREGATE						
STATION		SIDE OF MAINLINE	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL	COMMENTS
EASTBOUND:						
1311+61	- 1311+67	RIGHT	-	1	0.01	OUTSIDE SHOULDER
1311+79	- 1311+85	RIGHT	-	1	0.01	OUTSIDE SHOULDER
1355+73	- 1356+45	RIGHT	-	16	0.06	OUTSIDE SHOULDER
1365+08	- 1365+44	RIGHT	-	8	0.03	OUTSIDE SHOULDER
2090+38	- 2090+74	RIGHT	-	8	0.03	OUTSIDE SHOULDER
2090+38	- 2090+74	LEFT	-	9	0.04	INSIDE SHOULDER
2104+15	- 2136+54	LEFT	181	-	0.72	STA 2104+15 TO CTH M
2104+15	- 2136+54	RIGHT	41	-	0.16	STA 2104+15 TO CTH M
2137+58	- 2238+00	LEFT	560	-	2.24	CTH M TO STH 131
2137+58	- 2238+00	RIGHT	126	-	0.51	CTH M TO STH 131
2220+00K	- 2226+85K	LT & RT	106	-	0.42	IH 90 EB OFF-RAMP @ STH 131
2227+60N	- 2235+80N	LT & RT	127	-	0.51	IH 90 EB ON-RAMP @ STH 131
2238+00	- 2328+80	LEFT	507	-	2.03	STH 131 TO USH 12
2238+00	- 2328+80	RIGHT	114	-	0.46	STH 131 TO USH 12
EASTBOUND TOTALS			2,644	64	7.22	
WESTBOUND:						
1206+16A	- 1206+25A	RIGHT	-	1	0.00	INSIDE SHOULDER
1208+49A	- 1208+87A	RIGHT	-	3	0.01	INSIDE SHOULDER
1208+99A	- 1209+08A	RIGHT	-	1	0.00	INSIDE SHOULDER
1213+53A	- 1213+67A	RIGHT	-	1	0.00	INSIDE SHOULDER
1213+83A	- 1213+97A	RIGHT	-	1	0.00	INSIDE SHOULDER
1217+23A	- 1217+32A	RIGHT	-	1	0.00	INSIDE SHOULDER
1218+49A	- 1219+21A	RIGHT	-	6	0.02	INSIDE SHOULDER
2103+75A	- 2136+30A	LEFT	41	-	0.16	STA 2104+15 TO CTH M
2103+75A	- 2136+30A	RIGHT	182	-	0.73	STA 2104+15 TO CTH M
2137+32A	- 2238+00A	LEFT	127	-	0.51	CTH M TO STH 131
2137+32A	- 2238+00A	RIGHT	562	-	2.25	CTH M TO STH 131
2221+00L	- 2225+25L	LT & RT	66	-	0.26	IH 90 WB ON-RAMP @ STH 131
2229+60M	- 2236+80M	LT & RT	40	-	0.16	IH 90 WB OFF-RAMP @ STH 131
2238+00A	- 2326+75A	LEFT	112	-	0.45	STH 131 TO USH 12
2238+00A	- 2326+75A	RIGHT	495	-	1.98	STH 131 TO USH 12
WESTBOUND TOTALS			2,437	21	6.55	
MAINTENANCE CROSSOVERS						
0+00R	1+25R	LT & RT	14	-	0.06	3'X3" AGGREGATE SHOULDER
0+00S	0+90S	LT & RT	10	-	0.04	3'X3" AGGREGATE SHOULDER
0+00T	0+60T	LT & RT	7	-	0.03	3'X3" AGGREGATE SHOULDER
0+00U	1+30U	LT & RT	14	-	0.06	3'X3" AGGREGATE SHOULDER
0+00V	1+70V	LT & RT	19	-	0.08	3'X3" AGGREGATE SHOULDER
0+00W	1+97W	LT & RT	22	-	0.09	3'X3" AGGREGATE SHOULDER
0+00X	0+67X	LT & RT	7	-	0.03	3'X3" AGGREGATE SHOULDER
0+00Y	0+60Y	LT & RT	7	-	0.03	3'X3" AGGREGATE SHOULDER
0+00Z	0+83Z	LT & RT	9	-	0.04	3'X3" AGGREGATE SHOULDER
0+00AA	0+98AA	LT & RT	11	-	0.04	3'X3" AGGREGATE SHOULDER
0+00BB	0+60BB	LT & RT	7	-	0.03	3'X3" AGGREGATE SHOULDER
0+00CC	0+73CC	LT & RT	8	-	0.03	3'X3" AGGREGATE SHOULDER
MAINTENANCE CROSSOVER TOTALS			135	-	0.54	
UNDISTRIBUTED			534	10	9.10	INCLUDING WATER FOR EARTHWORK
TOTALS			5,750	95	23.41	

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STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 53

E

FILE NAME :

PLOT DATE :

PLOT BY :

PLOT NAME :

ORG DATE :

ORIGINATOR : DIST _

PLOT SCALE : 1:1

3

3

REMOVALS				
203.0100 REMOVING SMALL PIPE CULVERTS				
STATION	LOCATION	EACH	COMMENTS	
<u>EASTBOUND</u>				
1703+00	RT	1	REMOVE RIGHT ENDWALL, 24-INCH	
1800+00	RT	1	REMOVE RIGHT ENDWALL, 18-INCH	
2005+19	RT	1	REMOVE RIGHT ENDWALL, 54-INCH	
2327+00	RT	1	REMOVE RIGHT ENDWALL, 24-INCH	
<u>WESTBOUND</u>				
1189+90A	LT	1	REMOVE LEFT ENDWALL, 24-INCH	
1245+00A	LT	1	REMOVE LEFT ENDWALL, 18-INCH	
1255+25A	LT	1	REMOVE LEFT ENDWALL, 30-INCH	
1564+00A	LT	1	REMOVE LEFT ENDWALL, 30-INCH	
1634+25A	RT	1	REMOVE RIGHT ENDWALL, 30-INCH	
2066+00A	RT	1	REMOVE RIGHT ENDWALL, 18-INCH	
2074+25A	RT	1	REMOVE RIGHT ENDWALL, 18-INCH	
2089+75A	RT	1	REMOVE RIGHT ENDWALL, 18-INCH	
TOTALS		12		

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS						
211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS						
STATION		LENGTH	SIDE OF MAINLINE	STA	COMMENTS	
EASTBOUND						
2104+15	- 2136+50	3235	LEFT	33	INSIDE SHOULDER	
2104+15	- 2135+50	3135	RIGHT	32	OUTSIDE SHOULDER	
2137+58	- 2238+00	10042	LEFT	101	INSIDE SHOULDER	
2137+58	- 2238+00	10042	RIGHT	101	OUTSIDE SHOULDER	
2220+00K	- 2226+85K	685	LT & RT	7	STH 131 OFF RAMP	
2227+60N	- 2235+80N	820	LT & RT	9	STH 131 ON RAMP	
2238+00	- 2328+80	9080	LEFT	91	INSIDE SHOULDER	
2238+00	- 2328+60	9060	RIGHT	91	OUTSIDE SHOULDER	
EASTBOUND TOTALS				465		
WESTBOUND						
2103+75A	- 2136+30A	3255	LEFT	33	INSIDE SHOULDER	
2103+75A	- 2136+30A	3255	RIGHT	33	OUTSIDE SHOULDER	
2137+32A	- 2238+00A	10068	LEFT	101	INSIDE SHOULDER	
2137+32A	- 2238+00A	10068	RIGHT	101	OUTSIDE SHOULDER	
2221+00L	- 2225+25L	425	LT & RT	5	STH 131 ON RAMP	
2229+60M	- 2236+80M	720	LT & RT	8	STH 131 OFF RAMP	
2238+00A	- 2326+75A	8875	LEFT	89	INSIDE SHOULDER	
2238+00A	- 2326+75A	8875	RIGHT	89	OUTSIDE SHOULDER	
WESTBOUND TOTALS				459		
TOTALS				924		

INLETS									
611.0430					611.0642	611.3901	611.3904		
RECONSTRUCTING INLET					INLET COVERS TYPE MS	INLETS MEDIAN 1 GRATE	INLETS MEDIAN 4 GRATE		
STATION	LOCATION	GRATE ELEVATION	DEPTH	EACH	EACH	EACH	EACH	COMMENTS	
EASTBOUND									
1880+00	30'	LT	996.65'	-	1	-	-	-	MEDIAN CROSSOVER
1880+14	30'	LT	995.25	3.00'		1	1	-	MEDIAN CROSSOVER
2250+44	34'	LT	976.09	3.00'	-	1	1	-	MEDIAN CROSSOVER
2250+60	34'	LT	977.49'	-	1	-	-	-	MEDIAN CROSSOVER
WESTBOUND									
1381+14A	30'	RT	824.84'	-	1	-	-	-	MEDIAN CROSSOVER
1381+22A	30'	RT	824.09'	3.00'		1	1	-	MEDIAN CROSSOVER
2066+00A	30'	RT	1002.48'	-	-	4	-	1	MEDIAN CROSSOVER
2200+34A	58'	RT	1024.47'	3.50'	-	1	1	-	MEDIAN CROSSOVER
2200+50A	58'	RT	1026.00'	-	1	-	-	-	MEDIAN CROSSOVER
2300+68A	35'	RT	989.51'	3.00'	-	1	1	-	
2300+90A	35'	RT	991.58'	-	1	-	-	-	MEDIAN CROSSOVER
					5	9	5	1	

CULVERT PIPE				
522.0118 CULVERT PIPE REINFOCED CONCRETE CLASS III 18-INCH				
STATION	LOCATION	ELEVATIONS		LF
		INLET	OUTLET	
EASTBOUND				
1880+00	30' LT	992.58'	992.36'	14
2250+52	34' LT	973.46'	972.92'	16
WESTBOUND				
1381+18A	30' RT	821.45'	821.15'	8
2066+00A	30' RT	1001.63'	1001.55'	8
2200+34A	58' RT	1021.34'	1021.11'	16
2300+79A	35' RT	987.18'	987.09'	22
TOTALS				84

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 54

E

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PAVEMENT																	
		204.0100	390.0403	415.6000.S	416.0610	416.0620	416.1715	416.1725	455.0105	455.0605	460.1100	460.1110	465.0400				
		REMOVING	BASE	ROUT	DRILLED	DRILLED	CONCRETE	CONCRETE	ASPHALTIC	TACK COAT	HMA	HMA	ASPHALTIC				
		PAVEMENT	PATCHING	AND	TIE BARS	DOWEL	PAVEMENT	PAVEMENT	MATERIAL		PAVEMENT	PAVEMENT	SHOULDER				
			CONCRETE	SEAL		BARS	REPAIR SHES	REPLACEMENT	PG58-28		TYPE E-0.3	TYPE E-10	RUMBLE				
		SY	SY	LF	EACH	EACH	SY	SY	TON	GAL	TON	TON	STRIP	PROPOSED PAVEMENT		COMMENTS	
STAGE	STATION TO STATION												LF	TYPE			
STAGE 1																	
EASTBOUND MAINLINE:																	
	1132+91 - 1132+97	-	-	-	-	16	8	-	-	-	-	-	-	12" PCC		REST AREA #15 ON RAMP	
	1136+78 - 1136+80	-	-	-	-	4	1	-	-	-	-	-	-	12" PCC		REST AREA #15 ON RAMP	
	1141+35 - 1141+41	-	-	-	-	16	8	-	-	-	-	-	-	12" PCC		OUTSIDE LANE	
	1154+02 - 1154+08	7	-	26	-	-	-	-	0.08	0.4	1.5	-	6	4" HMA		OUTSIDE SHOULDER	
	1156+19 - 1156+25	7	-	26	-	-	-	-	0.08	0.4	1.5	-	6	4" HMA		OUTSIDE SHOULDER	
	1176+03 - 1176+09	7	-	26	-	-	-	-	0.08	0.4	1.5	-	6	4" HMA		OUTSIDE SHOULDER	
	1178+87 - 1178+95	9	-	28	-	-	-	-	0.11	0.5	2.0	-	8	4" HMA		OUTSIDE SHOULDER	
	1179+59 - 1179+65	7	-	26	-	-	-	-	0.08	0.4	1.5	-	6	4" HMA		OUTSIDE SHOULDER	
	1180+09 - 1180+15	7	-	26	-	-	-	-	0.08	0.4	1.5	-	6	4" HMA		OUTSIDE SHOULDER	
	1180+48 - 1180+54	7	-	26	-	-	-	-	0.08	0.4	1.5	-	6	4" HMA		OUTSIDE SHOULDER	
	1188+85 - 1188+91	7	-	26	-	-	-	-	0.08	0.4	1.5	-	6	4" HMA		OUTSIDE SHOULDER	
	1191+60 - 1191+66	7	-	26	-	-	-	-	0.08	0.4	1.5	-	6	4" HMA		OUTSIDE SHOULDER	
	1204+41 - 1204+61	22	-	40	-	-	-	-	0.27	1.3	5.0	-	20	4" HMA		OUTSIDE SHOULDER	
	1204+91 - 1205+11	22	-	40	-	-	-	-	0.27	1.3	5.0	-	20	4" HMA		OUTSIDE SHOULDER	
	1206+37 - 1206+77	44	-	60	-	-	-	-	0.55	2.7	10.0	-	40	4" HMA		OUTSIDE SHOULDER	
	1206+90 - 1206+99	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA		OUTSIDE SHOULDER	
	1209+74 - 1209+80	-	-	-	-	16	8	-	-	-	-	-	-	12" PCC		OUTSIDE LANE	
	1210+39 - 1210+48	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA		OUTSIDE SHOULDER	
	1212+86 - 1212+95	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA		OUTSIDE SHOULDER	
	1213+49 - 1213+67	20	-	38	-	-	-	-	0.25	1.2	4.5	-	18	4" HMA		OUTSIDE SHOULDER	
	1214+35 - 1214+40	6	-	25	-	-	-	-	0.07	0.3	1.2	-	5	4" HMA		OUTSIDE SHOULDER	
	1215+36 - 1215+45	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA		OUTSIDE SHOULDER	
	1216+21 - 1216+89	76	-	88	-	-	-	-	0.93	4.5	16.9	-	68	4" HMA		OUTSIDE SHOULDER	
	1218+03 - 1218+17	16	-	34	-	-	-	-	0.19	0.9	3.5	-	14	4" HMA		OUTSIDE SHOULDER	
	1219+83 - 1219+92	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA		OUTSIDE SHOULDER	
	1220+18 - 1220+23	6	-	25	-	-	-	-	0.07	0.3	1.2	-	5	4" HMA		OUTSIDE SHOULDER	
	1221+94 - 1222+19	28	-	45	-	-	-	-	0.34	1.7	6.2	-	25	4" HMA		OUTSIDE SHOULDER	
	1222+30 - 1222+85	61	-	75	-	-	-	-	0.75	3.7	13.7	-	55	4" HMA		OUTSIDE SHOULDER	
	1223+37 - 1223+47	11	-	30	-	-	-	-	0.14	0.7	2.5	-	10	4" HMA		OUTSIDE SHOULDER	
	1225+71 - 1225+80	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA		OUTSIDE SHOULDER	
	1227+01 - 1227+10	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA		OUTSIDE SHOULDER	
	1229+71 - 1229+76	5	-	25	-	-	-	-	0.06	0.3	1.1	-	5	4" HMA		OUTSIDE SHOULDER	
	1230+63 - 1230+72	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA		OUTSIDE SHOULDER	
	1232+60 - 1232+65	5	-	25	-	-	-	-	0.06	0.3	1.1	-	5	4" HMA		OUTSIDE SHOULDER	
	1233+31 - 1233+40	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA		OUTSIDE SHOULDER	
	1255+02 - 1255+08	-	-	-	-	16	8	-	-	-	-	-	-	12" PCC		OUTSIDE LANE	
	1255+54 - 1255+59	5	-	25	-	-	-	-	0.06	0.3	1.1	-	5	4" HMA		OUTSIDE SHOULDER	
	1255+61 - 1255+88	30	-	47	-	-	-	-	0.37	1.8	6.7	-	27	4" HMA		OUTSIDE SHOULDER	
	1283+55 - 1283+61	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC		OUTSIDE LANE	
	1283+77 - 1283+83	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC		OUTSIDE LANE	
	1284+32 - 1284+38	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC		OUTSIDE LANE	
	1285+40 - 1285+50	-	-	-	-	16	16	-	-	-	-	-	-	12" PCC		OUTSIDE LANE	
	1293+14 - 1293+20	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC		OUTSIDE LANE	
	1298+42 - 1298+48	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC		OUTSIDE LANE	
	1300+36 - 1300+42	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC		OUTSIDE LANE	

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PAVEMENT																	
		204.0100	390.0403	415.6000.S	416.0610	416.0620	416.1715	416.1725	455.0105	455.0605	460.1100	460.1110	465.0400				
		REMOVING	BASE	ROUTE	DRILLED	DRILLED	CONCRETE	CONCRETE	ASPHALTIC	TACK COAT	HMA	HMA	ASPHALTIC				
		PAVEMENT	PATCHING	AND	TIE BARS	DOWEL	PAVEMENT	PAVEMENT	MATERIAL		PAVEMENT	PAVEMENT	SHOULDER				
			CONCRETE	SEAL		BARS	REPAIR SHES	REPLACEMENT	PG58-28		TYPE E-0.3	TYPE E-10	RUMBLE				
			SHES					SHES					STRIP				
STAGE	STATION TO STATION	SY	SY	LF	EACH	EACH	SY	SY	TON	GAL	TON	TON	LF	PROPOSED PAVEMENT	TYPE	COMMENTS	
STAGE 1																	
EASTBOUND MAINLINE CONTINUED:																	
	1307+18 - 1307+24	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE		
	1311+45 - 1311+51	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE		
	1311+64 - 1311+70	7	-	26	-	-	-	-	0.08	-	1.5	-	6	3.5" HMA	OUTSIDE SHOULDER		
	1311+82 - 1311+88	7	-	26	-	-	-	-	0.08	-	1.5	-	6	3.5" HMA	OUTSIDE SHOULDER		
	1322+66 - 1323+38	80	-	92	-	-	-	-	0.99	4.8	17.9	-	72	4" HMA	OUTSIDE SHOULDER		
	1322+66 - 1322+78	-	-	-	-	16	16	-	-	-	-	-	-	12" PCC	OUTSIDE LANE		
	1323+66 - 1325+90	249	-	244	-	-	-	-	3.07	14.9	55.8	-	224	4" HMA	OUTSIDE SHOULDER		
	1326+43 - 1326+52	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA	OUTSIDE SHOULDER		
	1327+51 - 1327+69	20	-	38	-	-	-	-	0.25	1.2	4.5	-	18	4" HMA	OUTSIDE SHOULDER		
	1328+11 - 1329+11	111	-	120	-	-	-	-	1.37	6.7	24.9	-	100	4" HMA	OUTSIDE SHOULDER		
	1329+47 - 1329+65	20	-	38	-	-	-	-	0.25	1.2	4.5	-	18	4" HMA	OUTSIDE SHOULDER		
	1330+87 - 1331+05	20	-	38	-	-	-	-	0.25	1.2	4.5	-	18	4" HMA	OUTSIDE SHOULDER		
	1332+68 - 1332+86	20	-	38	-	-	-	-	0.25	1.2	4.5	-	18	4" HMA	OUTSIDE SHOULDER		
	1339+58 - 1339+64	7	-	26	-	-	-	-	0.08	0.4	1.5	-	6	4" HMA	OUTSIDE SHOULDER		
	1356+09 - 1356+81	80	-	92	-	-	-	-	0.99	-	17.9	-	72	3.5" HMA	OUTSIDE SHOULDER		
	1365+26 - 1365+62	40	-	56	-	-	-	-	0.49	-	9.0	-	36	3.5" HMA	OUTSIDE SHOULDER		
	1377+22 - 1377+32	-	-	-	-	4	7	-	-	-	-	-	-	12" PCC	STH 27 ON RAMP		
	1381+33 - 1381+37	-	-	-	-	-	1	-	-	-	-	-	-	12" PCC	STH 27 ON RAMP		
	1398+73 - 1402+93	467	-	440	-	-	-	-	5.75	28.0	104.5	-	420	4" HMA	OUTSIDE SHOULDER		
	1399+13 - 1399+22	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA	OUTSIDE SHOULDER		
	1403+56 - 1404+06	56	-	70	-	-	-	-	0.68	3.3	12.4	-	50	4" HMA	OUTSIDE SHOULDER		
	1415+87 - 1416+47	67	-	80	-	-	-	-	0.82	4.0	14.9	-	60	4" HMA	OUTSIDE SHOULDER		
	1417+49 - 1417+58	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA	OUTSIDE SHOULDER		
	1417+59 - 1418+69	122	-	130	-	-	-	-	1.51	7.3	27.4	-	110	4" HMA	OUTSIDE SHOULDER		
	1421+14 - 1421+23	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA	OUTSIDE SHOULDER		
	1422+29 - 1422+61	36	-	52	-	-	-	-	0.44	2.1	8.0	-	32	4" HMA	OUTSIDE SHOULDER		
	1452+08 - 1452+17	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA	OUTSIDE SHOULDER		
	1452+62 - 1452+71	10	-	29	-	-	-	-	0.12	0.6	2.2	-	9	4" HMA	OUTSIDE SHOULDER		
	1514+11 - 1514+21	-	-	-	-	16	11	-	-	-	-	-	-	12" PCC	STH 16 OFF RAMP		
	1558+49 - 1558+55	-	-	-	-	16	8	-	-	-	-	-	-	12" PCC	OUTSIDE LANE		
	1558+92 - 1558+98	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1587+59 - 1587+65	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1698+33 - 1698+39	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1705+64 - 1705+74	-	14	34	-	16	-	-	0.15	0.8	-	2.7	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1790+89 - 1790+95	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1791+29 - 1791+35	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1830+68 - 1830+74	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1936+62 - 1936+68	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1938+03 - 1938+09	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1982+98 - 1983+04	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	2001+84 - 2001+90	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	2002+97 - 2003+07	-	14	34	-	16	-	-	0.15	0.8	-	2.7	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	2038+16 - 2038+24	-	11	32	-	16	-	-	0.12	0.6	-	2.2	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	2074+80 - 2074+86	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE		
	2090+56 - 2091+28	40	48	80	-	16	-	-	1.03	5.3	9.0	9.7	36	4" HMA OVER 8" PCC	OUTSIDE LANE & SHOULDER		

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PAVEMENT																	
				204.0100	390.0403	415.6000.S	416.0610	416.0620	416.1715	416.1725	455.0105	455.0605	460.1100	460.1110	465.0400		
				REMOVING PAVEMENT	BASE PATCHING CONCRETE SHES	ROUTE AND SEAL	DRILLED TIE BARS	DRILLED DOWEL BARS	CONCRETE PAVEMENT REPAIR SHES	CONCRETE PAVEMENT REPLACEMENT SHES	ASPHALTIC MATERIAL PG58-28	TACK COAT	HMA PAVEMENT TYPE E-0.3	HMA PAVEMENT TYPE E-10	ASPHALTIC SHOULDER RUMBLE STRIP	PROPOSED PAVEMENT	COMMENTS
STAGE	STATION	TO	STATION	SY	SY	LF	EACH	EACH	SY	SY	TON	GAL	TON	TON	LF	TYPE	
STAGE 1																	
EASTBOUND MAINLINE CONTINUED:																	
	2102+99	-	2103+05	-	8	30	-	16	-	-	0.09	0.5	-	1.6	-	4" HMA OVER 8" PCC	OUTSIDE LANE
	2104+07	-	2104+25	-	28	46	-	16	-	-	0.31	1.7	-	5.7	-	4" HMA OVER 8" PCC	OUTSIDE LANE
	2111+37	-	2111+43	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2122+71	-	2122+79	-	-	-	-	16	12	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2126+93	-	2126+99	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2142+29	-	2142+37	-	-	-	-	16	12	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2147+49	-	2147+55	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2155+16	-	2155+22	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2161+97	-	2162+03	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2169+03	-	2169+09	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2169+71	-	2169+77	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2178+57	-	2178+63	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2214+50	-	2214+58	-	-	-	-	16	12	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2215+40	-	2215+46	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2225+52	-	2225+60	-	-	-	-	16	12	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2227+71	-	2227+77	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2228+30	-	2228+36	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2229+60	-	2229+66	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2235+60	-	2235+78	-	-	-	5	16	-	28	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2236+01	-	2236+07	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2239+79	-	2239+85	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2245+20	-	2245+30	-	-	-	-	16	16	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2245+20	-	2245+30	-	-	-	-	16	11	-	-	-	-	-	-	11" PCC	STH 131 ON RAMP
	2251+46	-	2251+52	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2268+15	-	2268+21	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2271+86	-	2271+92	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2289+73	-	2289+79	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2307+04	-	2307+10	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2310+01	-	2310+07	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2320+05	-	2320+11	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2104+45	-	2136+50	2,873	-	3,205	-	-	-	-	30.97	-	563.1	-	3,205	3.5" HMA	STA 2104+15 TO CTH M
	2137+55	-	2219+00	9,834	-	8,145	-	-	-	-	106.01	-	1,927.5	-	8,145	3.5" HMA	CTH M TO STH 131
	2219+00	-	2236+00	2,712	-	1,700	-	-	-	-	29.23	-	531.5	-	1,700	3.5" HMA	STH 131 INTERCHANGE
	2236+00	-	2328+80	9,664	-	9,280	-	-	-	-	104.18	-	1,894.2	-	9,280	3.5" HMA	STH 131 TO USH 12
STAGE 1 TOTALS				27,099	211	25,814	5	984	438	28	298	125	5,368	42	24,144		
STAGE 2																	
WESTBOUND MAINLINE:																	
	1139+53A	-	1139+59A	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE
	1227+33A	-	1227+38A	4	-	21	-	-	-	-	0.05	0.3	1.0	-	5	4" HMA	OUTSIDE SHOULDER
	1287+74A	-	1287+80A	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE
	1293+00A	-	1293+08A	-	-	-	-	16	12	-	-	-	-	-	-	12" PCC	OUTSIDE LANE
	1299+90A	-	1299+96A	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE

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PAVEMENT																	
		204.0100	390.0403	415.6000.S	416.0610	416.0620	416.1715	416.1725	455.0105	455.0605	460.1100	460.1110	465.0400				
		REMOVING	BASE	ROUTE	DRILLED	DRILLED	CONCRETE	CONCRETE	ASPHALTIC	TACK COAT	HMA	HMA	ASPHALTIC				
		PAVEMENT	PATCHING	AND	TIE BARS	DOWEL	PAVEMENT	PAVEMENT	MATERIAL		PAVEMENT	PAVEMENT	SHOULDER				
			CONCRETE	SEAL		BARS	REPAIR SHES	REPLACEMENT	PG58-28		TYPE E-0.3	TYPE E-10	RUMBLE				
			SHES					SHES					STRIP				
STAGE	STATION TO STATION	SY	SY	LF	EACH	EACH	SY	SY	TON	GAL	TON	TON	LF	PROPOSED PAVEMENT			
														TYPE	COMMENTS		
STAGE 2																	
WESTBOUND MAINLINE CONTINUED:																	
	1302+72A - 1302+78A	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE		
	1304+46A - 1304+52A	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE		
	1310+60A - 1310+66A	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE		
	1323+70A - 1323+76A	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE		
	1368+24A - 1368+30A	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE		
	1375+30A - 1375+36A	-	-	-	-	-	1	-	-	-	-	-	-	12" PCC	STH 27 ON RAMP		
	1414+38A - 1414+47A	8	-	25	-	-	-	-	0.10	0.5	1.8	-	9	4" HMA	OUTSIDE SHOULDER		
	1416+37A - 1417+67A	116	-	146	-	-	-	-	1.42	6.9	25.9	-	130	4" HMA	OUTSIDE SHOULDER		
	1542+95A - 1543+01A	-	-	-	-	-	1	-	-	-	-	-	-	12" PCC	STH 16 ON RAMP		
	1558+63A - 1558+69A	-	-	-	-	16	9	-	-	-	-	-	-	12" PCC	OUTSIDE LANE		
	1561+09A - 1561+21A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1627+82A - 1627+94A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1628+01A - 1628+13A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1636+35A - 1636+47A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1640+64A - 1640+76A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1640+73A - 1640+85A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1642+92A - 1643+04A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1684+16A - 1684+28A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1685+19A - 1685+31A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1687+24A - 1687+36A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1742+60A - 1742+72A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1748+70A - 1748+82A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1750+90A - 1751+02A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1801+26A - 1801+38A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1801+36A - 1801+48A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1803+71A - 1803+83A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1803+81A - 1803+93A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1818+40A - 1818+52A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1904+64A - 1904+76A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1904+75A - 1904+87A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1982+15A - 1982+27A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	1995+24A - 1995+36A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	2098+83A - 2098+95A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	2101+45A - 2101+57A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	OUTSIDE LANE		
	2107+89A - 2107+95A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE		
	2108+07A - 2108+13A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE		
	2112+84A - 2112+90A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE		
	2115+00A - 2115+20A	-	-	-	5	16	-	31	-	-	-	-	-	11" PCC	OUTSIDE LANE		
	2116+04A - 2116+10A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE		
	2116+97A - 2117+03A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE		
	2122+12A - 2122+18A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE		
	2126+76A - 2126+82A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE		
	2132+70A - 2132+76A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE		
	2133+95A - 2134+01A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE		

PAVEMENT																	
				204.0100	390.0403	415.6000.S	416.0610	416.0620	416.1715	416.1725	455.0105	455.0605	460.1100	460.1110	465.0400		
				REMOVING PAVEMENT	BASE PATCHING CONCRETE SHES	ROUTE AND SEAL	DRILLED TIE BARS	DRILLED DOWEL BARS	CONCRETE PAVEMENT REPAIR SHES	CONCRETE PAVEMENT REPLACEMENT SHES	ASPHALTIC MATERIAL PG58-28	TACK COAT	HMA PAVEMENT TYPE E-0.3	HMA PAVEMENT TYPE E-10	ASPHALTIC SHOULDER RUMBLE STRIP		
STAGE	STATION	TO	STATION	SY	SY	LF	EACH	EACH	SY	SY	TON	GAL	TON	TON	LF	PROPOSED PAVEMENT TYPE	COMMENTS
STAGE 2																	
WESTBOUND MAINLINE CONTINUED:																	
	2141+10A	-	2141+16A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2149+90A	-	2149+96A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2157+50A	-	2157+56A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2159+20A	-	2159+26A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2160+90A	-	2160+96A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2163+85A	-	2163+91A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2164+05A	-	2164+11A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2164+60A	-	2164+66A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2168+77A	-	2168+83A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2174+55A	-	2174+61A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2183+40A	-	2183+48A	-	-	-	-	16	12	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2192+94A	-	2193+00A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2194+44A	-	2194+50A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2195+34A	-	2195+40A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2196+61A	-	2196+67A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2199+93A	-	2199+99A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2200+49A	-	2200+55A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2201+77A	-	2201+83A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2203+80A	-	2203+86A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2215+00A	-	2215+06A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2217+27A	-	2217+33A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2222+88A	-	2222+94A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2238+90A	-	2239+00A	-	-	-	-	16	16	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2239+64A	-	2239+70A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2244+06A	-	2244+12A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2256+64A	-	2256+70A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2256+98A	-	2257+04A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2262+00A	-	2262+80A	-	-	-	21	16	-	124	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2264+18A	-	2264+24A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2266+25A	-	2266+31A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2277+13A	-	2277+19A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2303+62A	-	2303+68A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2309+82A	-	2309+88A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2312+06A	-	2312+12A	-	-	-	-	16	9	-	-	-	-	-	-	11" PCC	OUTSIDE LANE
	2103+75A	-	2136+25A	2,899	-	3,250	-	-	-	-	31.25	-	568.2	-	3,250	3.5" HMA	STA. 2103+75A TO CTH M
	2137+30A	-	2220+80A	9,292	-	8,350	-	-	-	-	100.17	-	1,821.2	-	8,350	3.5" HMA	CTH M TO STH 131
	2220+80A	-	2238+50A	2,722	-	1,770	-	-	-	-	29.34	-	533.5	-	1,770	3.5" HMA	STH 131
	2238+50A	-	2326+75A	9,347	-	8,825	-	-	-	-	100.76	-	1,832.0	-	8,825	3.5" HMA	STH 131 TO USH 12
STAGE 2 TOTALS				24,388	192	23,107	27	1,248	500	156	265	19	4,784	39	22,483		

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PAVEMENT																	
		204.0100	390.0403	415.6000.S	416.0610	416.0620	416.1715	416.1725	455.0105	455.0605	460.1100	460.1110	465.0400				
		REMOVING	BASE	ROUTE	DRILLED	DRILLED	CONCRETE	CONCRETE	ASPHALTIC	TACK COAT	HMA	HMA	ASPHALTIC				
		PAVEMENT	PATCHING	AND	TIE BARS	DOWEL	PAVEMENT	PAVEMENT	MATERIAL		PAVEMENT	PAVEMENT	SHOULDER				
			CONCRETE	SEAL		BARS	REPAIR SHES	REPLACEMENT	PG58-28		TYPE E-0.3	TYPE E-10	RUMBLE				
			SHES					SHES					STRIP				
STAGE	STATION	TO	STATION	SY	SY	LF	EACH	EACH	SY	SY	TON	GAL	TON	TON	LF	PROPOSED PAVEMENT	COMMENTS
																TYPE	
STAGE 3																	
EASTBOUND MAINLINE:																	
	1187+58	-	1187+64	-	-	-	-	16	8	-	-	-	-	-	-	12" PCC	INSIDE LANE
	1209+74	-	1209+80	-	-	-	-	16	8	-	-	-	-	-	-	12" PCC	INSIDE LANE
	1285+40	-	1285+50	-	-	-	-	16	13	-	-	-	-	-	-	12" PCC	INSIDE LANE
	1322+66	-	1322+78	-	-	-	-	16	16	-	-	-	-	-	-	12" PCC	INSIDE LANE
	1551+91	-	1551+99	-	-	-	-	16	11	-	-	-	-	-	-	12" PCC	INSIDE LANE
	1558+49	-	1558+55	-	-	-	-	16	8	-	-	-	-	-	-	12" PCC	INSIDE LANE
	1692+50	-	1692+58	-	11	32	-	16	-	-	0.12	0.6	-	2.2	8	4" HMA OVER 8" PCC	INSIDE LANE
	1705+53	-	1705+65	-	16	36	-	16	-	-	0.18	1.0	-	3.2	12	4" HMA OVER 8" PCC	INSIDE LANE
	1830+68	-	1830+74	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	INSIDE LANE
	2002+97	-	2003+05	-	11	32	-	16	-	-	0.12	0.6	-	2.2	8	4" HMA OVER 8" PCC	INSIDE LANE
	2090+56	-	2091+64	16	48	-	-	16	-	16	0.73	3.8	3.6	9.7	36	4" HMA OVER 8" PCC	INSIDE LANE & SHOULDER
	2102+99	-	2103+05	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	INSIDE LANE
	2147+27	-	2147+33	-	-	-	-	16	8	-	-	-	-	-	-	11" PCC	INSIDE LANE
	2180+95	-	2181+03	-	-	-	-	16	11	-	-	-	-	-	-	11" PCC	INSIDE LANE
	2137+55	-	2219+00	1,439	-	8,145	-	-	-	-	17.73	-	322.4	-	8,145	3.5" HMA	STA 2104+15 TO CTH M
	2137+55	-	2228+15	4,016	-	9,060	-	-	-	-	49.48	-	899.6	-	9,060	3.5" HMA	CTH M TO STH 131
	2228+15	-	2328+80	4,348	-	10,065	-	-	-	-	53.56	-	973.9	-	10,065	3.5" HMA	STH 131 TO USH 12
STAGE 3 TOTALS				9,819	102	27,430	-	224	83	16	122	7	2,200	21	27,346		
STAGE 4																	
WESTBOUND MAINLINE:																	
	1123+97A	-	1124+06A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1124+57A	-	1124+66A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1125+30A	-	1125+39A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1155+14A	-	1155+19A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER
	1155+43A	-	1155+48A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER
	1155+62A	-	1155+67A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER
	1162+44A	-	1162+77A	15	-	41	-	-	-	-	0.18	0.9	3.3	-	33	4" HMA	INSIDE SHOULDER
	1162+55A	-	1162+60A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER
	1162+72A	-	1162+77A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER
	1163+25A	-	1163+34A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1166+10A	-	1166+19A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1166+44A	-	1166+58A	6	-	22	-	-	-	-	0.07	0.4	1.3	-	14	4" HMA	INSIDE SHOULDER
	1166+81A	-	1166+86A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER
	1168+43A	-	1168+52A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1168+80A	-	1168+89A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1179+28A	-	1179+37A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1179+43A	-	1179+52A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1179+54A	-	1179+59A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER
	1184+59A	-	1184+68A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1202+15A	-	1202+20A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER
	1202+30A	-	1202+39A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1202+47A	-	1202+56A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1203+15A	-	1203+24A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1204+05A	-	1204+14A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER
	1205+07A	-	1205+16A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER

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PAVEMENT																
		204.0100	390.0403	415.6000.S	416.0610	416.0620	416.1715	416.1725	455.0105	455.0605	460.1100	460.1110	465.0400			
		REMOVING	BASE	ROUTE	DRILLED	DRILLED	CONCRETE	CONCRETE	ASPHALTIC	TACK COAT	HMA	HMA	ASPHALTIC			
		PAVEMENT	PATCHING	AND	TIE BARS	DOWEL	PAVEMENT	PAVEMENT	MATERIAL		PAVEMENT	PAVEMENT	SHOULDER			
			CONCRETE	SEAL		BARS	REPAIR SHES	REPLACEMENT	PG58-28		TYPE E-0.3	TYPE E-10	RUMBLE			
			SHES					SHES					STRIP			
				LF	EACH	EACH	SY	SY	TON	GAL	TON	TON	LF	PROPOSED PAVEMENT		COMMENTS
STAGE	STATION TO STATION	SY	SY											TYPE		
STAGE 4																
WESTBOUND MAINLINE CONTUNUED:																
	1205+44A - 1205+53A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER	
	1205+85A - 1205+90A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER	
	1206+20A - 1206+29A	4	-	17	-	-	-	-	0.05	-	0.9	-	9	3.5" HMA	INSIDE SHOULDER	
	1208+68A - 1209+06A	17	-	46	-	-	-	-	0.21	-	3.8	-	38	3.5" HMA	INSIDE SHOULDER	
	1209+03A - 1209+12A	4	-	17	-	-	-	-	0.05	-	0.9	-	9	3.5" HMA	INSIDE SHOULDER	
	1213+60A - 1213+74A	6	-	22	-	-	-	-	0.07	-	1.3	-	14	3.5" HMA	INSIDE SHOULDER	
	1213+90A - 1214+04A	6	-	22	-	-	-	-	0.07	-	1.3	-	14	3.5" HMA	INSIDE SHOULDER	
	1217+27A - 1217+36A	4	-	17	-	-	-	-	0.05	-	0.9	-	9	3.5" HMA	INSIDE SHOULDER	
	1218+85A - 1219+57A	32	-	80	-	-	-	-	0.39	-	7.2	-	72	3.5" HMA	INSIDE SHOULDER	
	1233+97A - 1234+15A	8	-	26	-	-	-	-	0.10	0.5	1.8	-	18	4" HMA	INSIDE SHOULDER	
	1246+94A - 1247+03A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER	
	1256+01A - 1256+06A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER	
	1299+90A - 1299+96A	-	-	-	-	16	8	-	-	-	-	-	-	12" PCC	INSIDE LANE	
	1310+96A - 1311+05A	-	-	-	-	16	12	-	-	-	-	-	-	12" PCC	INSIDE LANE	
	1325+70A - 1325+79A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER	
	1333+50A - 1334+80A	58	-	138	-	-	-	-	0.71	3.5	12.9	-	130	4" HMA	INSIDE SHOULDER	
	1355+40A - 1355+58A	8	-	26	-	-	-	-	0.10	0.5	1.8	-	18	4" HMA	INSIDE SHOULDER	
	1367+85A - 1367+90A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER	
	1398+69A - 1398+78A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER	
	1420+75A - 1420+89A	6	-	22	-	-	-	-	0.07	0.4	1.3	-	14	4" HMA	INSIDE SHOULDER	
	1424+85A - 1424+94A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER	
	1425+25A - 1425+34A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER	
	1425+38A - 1425+47A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER	
	1433+41A - 1433+68A	12	-	35	-	-	-	-	0.15	0.7	2.7	-	27	4" HMA	INSIDE SHOULDER	
	1433+70A - 1433+79A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER	
	1442+12A - 1442+21A	4	-	17	-	-	-	-	0.05	0.2	0.9	-	9	4" HMA	INSIDE SHOULDER	
	1443+35A - 1443+40A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER	
	1444+95A - 1445+00A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER	
	1445+15A - 1445+20A	2	-	13	-	-	-	-	0.02	0.1	0.4	-	5	4" HMA	INSIDE SHOULDER	
	1499+84A - 1500+09A	11	-	33	-	-	-	-	0.14	0.7	2.5	-	25	4" HMA	INSIDE SHOULDER	
	1561+09A - 1561+15A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	INSIDE LANE	
	1982+15A - 1982+21A	-	8	30	-	16	-	-	0.09	0.5	-	1.6	6	4" HMA OVER 8" PCC	INSIDE LANE	
	2116+94A - 2117+00A	-	-	-	-	16	8	-	-	-	-	-	-	11" PCC	INSIDE LANE	
	2118+24A - 2118+30A	-	-	-	-	16	8	-	-	-	-	-	-	11" PCC	INSIDE LANE	
	2301+80A - 2301+86A	-	-	-	-	16	8	-	-	-	-	-	-	11" PCC	INSIDE LANE	
	2103+75A - 2136+25A	1,492	-	3,250	-	-	-	-	18.38	-	334.2	-	3,250	3.5" HMA	STA. 2103+75A TO CTH M	
	2137+30A - 2227+80A	4,014	-	9,050	-	-	-	-	49.45	-	899.1	-	9,050	3.5" HMA	CTH M TO STH 131	
	2227+80A - 2326+75A	4,290	-	9,895	-	-	-	-	52.86	-	961.1	-	9,895	3.5" HMA	STH 131 TO USH 12	
STAGE 4 TOTALS		10,116	16	23,400	-	112	44	-	125	16	2,266	3	23,021			
UNDISTRIBUTED		103	24	319	19	1,192	494	96	90	23	1,483	15	6			
GRAND TOTALS		71,525	545	100,070	50	3,760	1,560	295	900	190	16,100	120	97,000			

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CULVERTS 18" - 24"														
		520.8700	520.9750.S	520.8000	520.9700.S01	522.1018	524.0118	524.0618	520.9700.S02	522.1024	524.0124	524.0624	633.5200	
		CLEANING CULVERT PIPES	CLEANING CULVERT PIPES FOR LINER VERIFICATION	CONCRETE COLLARS FOR PIPE	CULVERT PIPE LINERS (18-INCH)	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	CULVERT PIPE SALVAGED 18-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 18-INCH	CULVERT PIPE LINERS (24-INCH)	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	CULVERT PIPE SALVAGED 24-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 24-INCH	MARKERS CULVERT END	
STATION	LOCATION	EACH	EACH	EACH	LF	EACH	LF	EACH	LF	EACH	LF	EACH	EACH	REMARKS
EASTBOUND														
1266+50	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1266+50	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1276+00	LT	-	1	-	116	-	-	-	-	-	-	-	1	INSTALL CULVERT LINER
1276+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1280+00	LT	-	1	-	120	-	-	-	-	-	-	-	1	INSTALL CULVERT LINER
1280+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1289+00	LT	-	1	-	120	-	-	-	-	-	-	-	1	INSTALL CULVERT LINER
1289+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1310+00	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1310+70	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1371+00	RT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1371+00	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1429+25	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1430+80	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1481+75	RT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1482+05	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1499+70	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1500+00	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1504+15	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1504+15	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1531+90	RT	1	-	1	-	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION
1531+40	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1553+40	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1553+60	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1572+80	LT	-	-	4	-	-	-	-	-	-	24	1	1	RELAY AT SAME LOCATION
1572+80	RT	1	-	2	-	-	-	-	-	-	8	1	1	RELAY AT SAME LOCATION
1584+00	LT	-	-	3	-	-	-	-	-	-	16	1	1	RELAY AT SAME LOCATION
1584+00	RT	1	-	2	-	-	-	-	-	-	8	1	1	RELAY AT SAME LOCATION
1592+00	LT	-	-	3	-	-	-	-	-	-	16	1	1	RELAY AT SAME LOCATION
1592+00	RT	1	-	3	-	-	-	-	-	-	16	1	1	RELAY AT SAME LOCATION
1688+00	LT	-	-	1	-	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION
1688+00	RT	1	-	1	-	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION
1693+00	LT	-	-	1	-	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION
1693+00	RT	1	-	2	-	-	-	-	-	-	8	1	1	RELAY AT SAME LOCATION
1703+00	LT	-	-	2	-	-	-	-	-	-	8	1	1	RELAY AT SAME LOCATION
1703+00	RT	1	-	1	-	-	-	-	-	1	-	-	1	INSTALL AT EXISTING LOCATION
1713+00	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1713+00	RT	1	-	1	-	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION
1743+00	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1743+00	RT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1755+00	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1755+00	RT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1767+00	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1767+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1778+00	LT	1	-	3	-	-	16	1	-	-	-	-	1	RELAY AT SAME LOCATION

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CULVERTS 18" - 24" CONTINUED

		520.8700	520.9750.S	520.8000	520.9700.S01	522.1018	524.0118	524.0618	520.9700.S02	522.1024	524.0124	524.0624	633.5200		
		CLEANING CULVERT PIPES	CLEANING CULVERT PIPES FOR LINER VERIFICATION	CONCRETE COLLARS FOR PIPE	CULVERT PIPE LINERS (18-INCH)	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	CULVERT PIPE SALVAGED 18-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 18-INCH	CULVERT PIPE LINERS (24-INCH)	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	CULVERT PIPE SALVAGED 24-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 24-INCH	MARKERS CULVERT END		
STATION	LOCATION	EACH	EACH	EACH	LF	EACH	LF	EACH	LF	EACH	LF	EACH	EACH	REMARKS	
EASTBOUND CONT.															
1778+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1800+00	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1800+00	RT	-	-	1	-	1	-	-	-	-	-	-	1	INSTALL AT EXISTING LOCATION	
1816+50	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1816+50	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1824+00	LT	1	-	3	-	-	16	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1824+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1833+80	LT	1	-	2	-	-	8	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1833+80	RT	-	-	2	-	-	8	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1893+00	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1893+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1929+90	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1929+90	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1935+40	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1964+00	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1964+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
2009+50	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
2009+50	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
2037+60	LT	-	1	-	116	-	-	-	-	-	-	-	1	CMCP, INSTALL NEW PIPE LINER	
2037+60	RT	-	-	-	-	-	-	-	-	-	-	-	1	CMCP, INTALL CULVERT MARKER	
2113+00	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
2113+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
2231+75P	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
2231+75P	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
2232+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
2232+00	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
2327+00P	RT	1	-	1	-	-	-	-	-	1	-	-	1	INSTALL AT EXISTING LOCATION	
2331+75P	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
2331+75P	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
WESTBOUND															
1189+90A	LT	-	-	1	-	-	-	-	-	1	-	-	1	INSTALL AT EXISTING LOCATION	
1190+50A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1245+00A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1245+00A	LT	-	-	1	-	1	-	-	-	-	-	-	1	INSTALL AT EXISTING LOCATION	
1300+00A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1300+00A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1347+00A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1347+00A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1381+00A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1381+00A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1401+10A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1401+40A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1430+10A	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1431+75A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1458+80A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	

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CULVERTS 18" - 24" CONTINUED

		520.8700	520.9750.S	520.8000	520.9700.S01	522.1018	524.0118	524.0618	520.9700.S02	522.1024	524.0124	524.0624	633.5200		
		CLEANING CULVERT PIPES	CLEANING CULVERT PIPES FOR LINER VERIFICATION	CONCRETE COLLARS FOR PIPE	CULVERT PIPE LINERS (18-INCH)	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	CULVERT PIPE SALVAGED 18-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 18-INCH	CULVERT PIPE LINERS (24-INCH)	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	CULVERT PIPE SALVAGED 24-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 24-INCH	MARKERS CULVERT END		
STATION	LOCATION	EACH	EACH	EACH	LF	EACH	LF	EACH	LF	EACH	LF	EACH	EACH	REMARKS	
WESTBOUND CONT.															
1458+80A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1492+50A	LT	-	-	4	-	-	24	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1492+95A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1530+30A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1572+75A	LT	-	-	2	-	-	-	-	-	-	8	1	1	RELAY AT SAME LOCATION	
1572+75A	RT	1	-	3	-	-	-	-	-	-	16	1	1	RELAY AT SAME LOCATION	
1584+25A	LT	-	-	3	-	-	-	-	-	-	16	1	1	RELAY AT SAME LOCATION	
1584+25A	RT	1	-	3	-	-	-	-	-	-	16	1	1	RELAY AT SAME LOCATION	
1592+25A	LT	-	-	1	-	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION	
1592+25A	RT	1	-	2	-	-	-	-	-	-	8	1	1	RELAY AT SAME LOCATION	
1601+25A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1601+25A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1688+25A	LT	-	-	3	-	-	-	-	-	-	16	1	1	RELAY AT SAME LOCATION	
1688+25A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1693+25A	LT	-	-	2	-	-	-	-	-	-	8	1	1	RELAY AT SAME LOCATION	
1693+25A	RT	1	-	2	-	-	-	-	-	-	8	1	1	RELAY AT SAME LOCATION	
1703+25A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1703+25A	RT	1	-	4	-	-	-	-	-	-	24	1	1	RELAY AT SAME LOCATION	
1713+25A	LT	-	-	4	-	-	-	-	-	-	24	1	1	RELAY AT SAME LOCATION	
1713+25A	RT	1	-	4	-	-	-	-	-	-	24	1	1	RELAY AT SAME LOCATION	
1723+25A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1723+25A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1730+25A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1730+25A	RT	1	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1790+40A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1790+40A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1800+30A	LT	-	-	2	-	-	8	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1800+30A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1835+00A	LT	-	1	-	-	-	-	-	78	-	-	-	1	INSTALL NEW PIPE LINER	
1835+00A	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1844+70A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1844+70A	RT	-	1	-	-	-	-	-	80	-	-	-	1	INSTALL NEW PIPE LINER	
1854+00A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1854+00A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1864+00A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1864+00A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1874+75A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1874+75A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1902+25A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1902+25A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1929+95A	LT	1	-	1	-	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION	
1936+50A	LT	1	-	2	-	-	-	-	-	-	8	1	1	RELAY AT SAME LOCATION	
1975+00A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
1975+00A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2026+60A	LT	-	-	1	-	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION	

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CULVERTS 18" - 24" CONTINUED

		520.8700	520.9750.S	520.8000	520.9700.S01	522.1018	524.0118	524.0618	520.9700.S02	522.1024	524.0124	524.0624	633.5200		
		CLEANING CULVERT PIPES	CLEANING CULVERT PIPES FOR LINER VERIFICATION	CONCRETE COLLARS FOR PIPE	CULVERT PIPE LINERS (18- INCH)	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	CULVERT PIPE SALVAGED 18-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 18-INCH	CULVERT PIPE LINERS (24-INCH)	ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	CULVERT PIPE SALVAGED 24-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 24-INCH	MARKERS CULVERT END		
STATION	LOCATION	EACH	EACH	EACH	LF	EACH	LF	EACH	LF	EACH	LF	EACH	EACH	REMARKS	
WESTBOUND CONT.															
2026+60A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2066+00A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2066+00A	RT	1	-	1	-	1	-	-	-	-	-	-	1	INSTALL AT EXISTING LOCATION	
2074+25A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2074+25A	RT	1	-	1	-	1	-	-	-	-	-	-	1	INSTALL AT EXISTING LOCATION	
2080+60A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2080+60A	RT	1	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2089+75A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2089+75A	RT	1	-	1	-	1	-	-	-	-	-	-	1	INSTALL AT EXISTING LOCATION	
2098+50A	LT	-	-	2	-	-	8	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2098+50A	RT	1	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2112+25A	LT	-	-	2	-	-	8	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2112+25A	RT	1	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2115+25A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2115+25A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2123+00A	LT	-	-	1	-	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION	
2123+00A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2138+25A	LT	-	-	2	-	-	8	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2138+25A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2147+75A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2147+75A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2167+60A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2167+60A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2192+60A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2192+90A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2200+50A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2200+50A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2231+10A	LT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2239+25A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2239+25A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2269+25A	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION	
2269+25A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2300+90A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2300+90A	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2323+25Q	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
2323+50A	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKERS	
TOTALS		77	6	116	472	5	104	31	158	3	280	29	170		

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 65

E

FILE NAME : _____

PLOT DATE : _____

PLOT BY : _____

PLOT NAME : _____

ORG DATE : _____

ORIGINATOR : DIST _

PLOT SCALE : 1:1

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CULVERTS 30" - 42"														
		520.8700	520.9750.S	520.8000	520.9700.S03	522.1030 APRON	524.0130	524.0630	524.0136	524.0636	524.0642	633.5200		
		CLEANING CULVERT PIPES	CLEANING CULVERT PIPES FOR LINER VERIFICATION	CONCRETE COLLARS FOR PIPE	CULVERT PIPE LINERS (30-INCH)	ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH	CULVERT PIPE SALVAGED 30-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 30-INCH	CULVERT PIPE SALVAGED 36-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 42-INCH	MARKERS CULVERT END		
STATION	LOCATION	EACH	EACH	EACH	LF	EACH	LF	EACH	LF	EACH	EACH	EACH	REMARKS	
EASTBOUND														
1126+15	RT	1	-	1	-	-	-	-	-	-	1	-	2	RELAY AT SAME LOCATION
1138+50	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1139+00	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1153+30	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1153+60	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1256+00	RT	1	-	1	-	-	-	1	-	-	-	-	2	RELAY AT SAME LOCATION
1331+80	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1331+90	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1340+50	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1334+50	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1360+50	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1360+50	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1407+00	RT	2	-	2	-	-	-	-	-	-	-	2	1	RELAY AT SAME LOCATION
1448+50	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1448+50	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1526+15F	RT	1	-	-	-	-	-	-	-	-	-	-	1	EB OFF-RAMP @ STH 16
1526+15F	LT	-	-	-	-	-	-	-	-	-	-	-	1	EB OFF-RAMP @ STH 16
1526+75	RT	1	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1556+50	RT	1	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1556+50	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1564+25	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1564+50	RT	1	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1609+05	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1609+05	RT	1	-	1	-	-	-	-	-	1	-	-	1	RELAY AT SAME LOCATION
1624+50	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1634+00	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1634+00	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1648+10	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1648+50	RT	1	-	2	-	-	8	1	-	-	-	-	1	RELAY AT SAME LOCATION
1665+75	LT	-	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1665+75	RT	1	-	1	-	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1840+00	LT	-	1	-	80	-	-	-	-	-	-	-	1	INSTALL NEW PIPE LINER
1840+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1880+00	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1880+00	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1906+75	RT	-	-	3	-	-	16	1	-	-	-	-	1	RELAY AT SAME LOCATION
1912+00	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1912+00	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1943+75	RT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1994+00	RT	-	-	2	-	-	-	-	8	1	-	-	1	RELAY AT SAME LOCATION
2012+75	RT	-	-	1	-	-	-	-	-	-	1	-	1	RELAY AT SAME LOCATION
2045+50	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
2045+57	RT	1	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
2156+25	RT	1	-	1	-	-	-	-	-	1	-	-	1	RELAY AT SAME LOCATION
2156+50	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
2162+00	RT	1	-	1	-	-	-	-	-	-	1	-	1	RELAY AT SAME LOCATION
2210+00	RT	2	-	2	-	-	-	-	-	2	-	-	1	RELAY AT SAME LOCATION
2279+00	LT	-	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
2279+00	RT	2	-	2	-	-	-	-	-	2	-	-	1	RELAY AT SAME LOCATION
2303+75	RT	2	-	2	-	-	-	-	-	2	-	-	1	RELAY AT SAME LOCATION
STATE PROJECT NO: 1071-02-60				HWY: IH 90			COUNTY: MONROE			MISCELLANEOUS QUANTITIES			SHEET NO: 66	

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CULVERTS 30" - 42" CONTINUED													
		520.8700	520.9750.S	520.8000	520.9700.S03	522.1030	524.0130	524.0630	524.0136	524.0636	524.0642	633.5200	
		CLEANING CULVERT PIPES	CLEANING CULVERT PIPES FOR LINER VERIFICATION	CONCRETE COLLARS FOR PIPE	CULVERT PIPE LINERS (30-INCH)	ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH	CULVERT PIPE SALVAGED 30-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 30-INCH	CULVERT PIPE SALVAGED 36-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 42-INCH	MARKERS CULVERT END	
STATION	LOCATION	EACH	EACH	EACH	LF	EACH	LF	EACH	LF	EACH	EACH	EACH	REMARKS
WESTBOUND													
2311+75	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
2312+00	RT	1	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1126+25A	RT	1	-	-	-	-	-	-	-	-	-	2	INSTALL CULVERT MARKER
1138+50A	RT	1	-	2	-	-	8	1	-	-	-	2	RELAY AT SAME LOCATION
1152+75A	LT	-	-	1	-	-	-	1	-	-	-	1	RELAY AT SAME LOCATION
1153+10A	RT	1	-	1	-	-	-	1	-	-	-	1	RELAY AT SAME LOCATION
1255+25A	LT	-	-	1	-	1	-	-	-	-	-	1	INSTALL AT EXISTING LOCATION
1332+10A	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1340+00A	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1356+00C	LT	-	-	-	-	-	-	-	-	-	-	1	WB ON-RAMP @ STH 27
1356+00C	RT	1	-	-	-	-	-	-	-	-	-	1	WB ON-RAMP @ STH 27
1357+50A	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1360+00A	LT	1	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1360+50A	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1406+00A	LT	-	-	2	-	-	-	-	-	-	2	1	RELAY AT SAME LOCATION
1448+25A	LT	-	-	1	-	-	-	-	-	1	-	1	RELAY AT SAME LOCATION
1526+25A	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1526+30A	LT	1	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1528+70A	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1528+25H	RT	1	-	-	-	-	-	-	-	-	-	1	WB OFF-RAMP @ STH 16
1528+25H	LT	-	-	-	-	-	-	-	-	-	-	1	WB OFF-RAMP @ STH 16
1557+00A	RT	1	-	3	-	-	16	1	-	-	-	1	RELAY AT SAME LOCATION
1557+00A	LT	-	-	3	-	-	16	1	-	-	-	1	RELAY AT SAME LOCATION
1564+00A	LT	-	-	1	-	-	1	-	-	-	-	1	RELAY AT SAME LOCATION
1564+25A	RT	1	-	1	-	1	-	-	-	-	-	1	INSTALL AT EXISTING LOCATION
1609+40A	LT	-	-	1	-	-	-	-	-	1	-	1	RELAY AT SAME LOCATION
1623+25A	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1634+25A	LT	-	-	1	-	-	-	1	-	-	-	1	RELAY AT SAME LOCATION
1634+25A	RT	1	-	1	-	1	-	-	-	-	-	1	INSTALL AT EXISTING LOCATION
1647+30A	LT	-	-	1	-	-	-	1	-	-	-	1	RELAY AT SAME LOCATION
1647+75A	RT	1	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1666+00A	LT	-	-	2	-	-	8	1	-	-	-	1	RELAY AT SAME LOCATION
1666+00A	RT	1	-	1	-	-	-	1	-	-	-	1	RELAY AT SAME LOCATION
1880+10A	LT	-	-	1	-	-	-	1	-	-	-	1	RELAY AT SAME LOCATION
1906+95A	LT	1	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1912+10A	LT	1	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1943+90A	LT	1	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
1993+50A	LT	1	-	2	-	-	-	-	8	1	-	1	RELAY AT SAME LOCATION
2012+10A	LT	1	-	1	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION
2044+80A	LT	-	-	2	-	-	8	1	-	-	-	1	RELAY AT SAME LOCATION
2156+50A	LT	-	-	1	-	-	-	-	-	1	-	1	RELAY AT SAME LOCATION
2161+60A	LT	-	-	1	-	-	-	-	-	-	1	1	RELAY AT SAME LOCATION
2210+50A	LT	-	-	4	-	-	-	-	16	2	-	1	RELAY AT SAME LOCATION
2278+10A	LT	-	-	2	-	-	-	-	-	2	-	1	RELAY AT SAME LOCATION
2304+00A	LT	-	-	2	-	-	-	-	-	2	-	1	RELAY AT SAME LOCATION
2310+60A	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER
TOTALS		47	1	69	80	3	81	23	32	20	8	100	

CULVERTS 48" - 60"														
		520.8700	520.8000	524.0148	524.0648	522.0154	522.1054	524.0154	524.0654	524.0160	524.0660	633.5200		
		CLEANING	CONCRETE	CULVERT	APRON	CULVERT PIPE	APRON	CULVERT	APRON	CULVERT	APRON	MARKERS		
		CULVERT	COLLARS	PIPE	ENDWALLS FOR	REINFORCED	ENDWALLS FOR	PIPE	ENDWALLS FOR	PIPE	ENDWALLS FOR	CULVERT		
		PIPES	FOR PIPE	SALVAGED	CULVERT PIPE	CONCRETE	CULVERT PIPE	SALVAGED	CULVERT PIPE	SALVAGE	CULVERT PIPE	END		
				48-INCH	SALVAGED	CLASS III	REINFORCED	54-	54-INCH	54-INCH	60-INCH	60-INCH		
					48-INCH	54-INCH	CONCRETE	INCH						
STATION	LOCATION	EACH	EACH	LF	EACH	LF	EACH	LF	EACH	LF	EACH	EACH		REMARKS
EASTBOUND														
1114+80	RT	2	2	-	-	-	-	-	2	-	-	1		RELAY AT SAME LOCATION
1114+80	I	-	-	-	-	-	-	-	-	-	-	-		INSTALL CULVERT MARKER
1149+60	LT	-	1	-	-	-	-	-	-	-	1	1		RELAY AT SAME LOCATION
1149+60	RT	1	1	-	-	-	-	-	-	-	1	1		RELAY AT SAME LOCATION
1166+00	RT	2	-	-	-	-	-	-	-	-	-	1		INSTALL CULVERT MARKER
1166+75	LT	-	2	-	-	-	-	-	2	-	-	1		RELAY AT SAME LOCATION
1176+50	LT	-	-	-	-	-	-	-	-	-	-	1		BOX CULVERT, INSTALL CULVERT MARKER
1178+25	RT	-	-	-	-	-	-	-	-	-	-	1		BOX CULVERT, INSTALL CULVERT MARKER
1205+75	LT	-	2	8	1	-	-	-	-	-	-	1		RELAY AT SAME LOCATION
1206+25	RT	1	-	-	-	-	-	-	-	-	-	1		INSTALL CULVERT MARKER
1224+60	RT	1	-	-	-	-	-	-	-	-	-	2		INSTALL CULVERT MARKER
1336+50	RT	2	-	-	-	-	-	-	-	-	-	1		INSTALL CULVERT MARKER
1376+05	RT	2	2	-	2	-	-	-	-	-	-	1		RELAY AT SAME LOCATION
1676+25	LT	-	-	-	-	-	-	-	-	-	-	1		BOX CULVERT, INSTALL CULVERT MARKER
1677+10	RT	-	-	-	-	-	-	-	-	-	-	1		BOX CULVERT, INSTALL CULVERT MARKER
1740+25	RT	-	-	-	-	-	-	-	-	-	-	1		BOX CULVERT, INSTALL CULVERT MARKER
1769+75	RT	-	-	-	-	-	-	-	-	-	-	1		BOX CULVERT, INSTALL CULVERT MARKER
1975+00	RT	-	-	-	-	-	-	-	-	-	-	1		INSTALL CULVERT MARKER
1984+90	RT	-	-	-	-	-	-	-	-	-	-	1		INSTALL CULVERT MARKER
2005+19	RT	-	1	-	-	14	1	-	-	-	-	1		RELAY AT SAME LOCATION
2058+50	LT	-	4	-	-	-	-	-	-	-	-	1		ONE COLLARE AT EACH INLET CONNECTION
2058+50	RT	2	2	-	2	-	-	-	-	-	-	1		RELAY AT SAME LOCATION
2089+25	RT	2	2	-	2	-	-	-	-	-	-	1		RELAY AT SAME LOCATION
2122+50	RT	-	-	-	-	-	-	-	-	-	-	1		BOX CULVERT, INSTALL CULVERT MARKER
2172+00	RT	2	2	-	2	-	-	-	-	-	-	1		RELAY AT SAME LOCATION
2225+20	LT	-	-	-	-	-	-	-	-	-	-	1		INSTALL CULVERT MARKER
2227+25N	RT	-	-	-	-	-	-	-	-	-	-	1		INSTALL CULVERT MARKER
2249+75	RT	1	-	-	-	-	-	-	-	-	-	1		BOX CULVERT, INSTALL CULVERT MARKER
2259+75	RT	2	-	-	-	-	-	-	-	-	-	1		INSTALL CULVERT MARKER
2260+05	LT	-	-	-	-	-	-	-	-	-	-	1		INSTALL CULVERT MARKER

CULVERTS 48" - 60" CONTINUED														
		520.8700	520.8000	524.0148	524.0648	522.0154	522.1054	524.0154	524.0654	524.0160	524.0660	633.5200		
		CLEANING CULVERT PIPES	CONCRETE COLLARS FOR PIPE	CULVERT PIPE SALVAGED 48-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 48-INCH	CULVERT PIPE REINFORCED CONCRETE CLASS III 54-INCH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 54- INCH	CULVERT PIPE SALVAGED 54-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 54-INCH	CULVERT PIPE SALVAGE D 60-INCH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 60-INCH	MARKERS CULVERT END		
WESTBOUND														
1114+80A	RT	2	2	-	-	-	-	-	2	-	-	2	RELAY AT SAME LOCATION	
1149+75A	RT	1	2	-	-	-	-	-	-	6	1	1	RELAY AT SAME LOCATION	
1149+90A	LT	-	2	-	-	-	-	-	-	6	1	1	RELAY AT SAME LOCATION	
1170+00A	LT & RT	-	-	-	-	-	-	-	-	-	-	2	BOX CULVERT, INSTALL CULVERT MARKER	
1204+40A	RT	1	2	8	1	-	-	-	-	-	-	1	RELAY AT SAME LOCATION	
1204+80A	LT	1	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1225+40A	LT	-	5	32	1	-	-	-	-	-	-	1	RELAY AT SAME LOCATION	
1336+50A	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
1376+00A	LT	-	2	-	2	-	-	-	-	-	-	1	RELAY AT SAME LOCATION	
1675+25A	LT	-	-	-	-	-	-	-	-	-	-	1	BOX CULVERT, INSTALL CULVERT MARKER	
1676+20A	RT	-	-	-	-	-	-	-	-	-	-	1	BOX CULVERT, INSTALL CULVERT MARKER	
1739+25A	LT	-	-	-	-	-	-	-	-	-	-	1	BOX CULVERT, INSTALL CULVERT MARKER	
1771+10A	LT	-	-	-	-	-	-	-	-	-	-	1	BOX CULVERT, INSTALL CULVERT MARKER	
1974+10A	LT	1	2	-	-	-	-	-	-	6	1	1	RELAY AT SAME LOCATION	
1984+00A	LT	1	3	16	1	-	-	-	-	-	-	1	RELAY AT SAME LOCATION	
2003+60A	LT	1	3	-	-	-	-	12	1	-	-	1	RELAY AT SAME LOCATION	
2058+10A	LT	-	6	32	2	-	-	-	-	-	-	1	RELAY AT SAME LOCATION	
2090+10A	LT	-	4	16	2	-	-	-	-	-	-	1	RELAY AT SAME LOCATION	
2121+60A	LT	-	-	-	-	-	-	-	-	-	-	1	BOX CULVERT, INSTALL CULVERT MARKER	
2171+75A	LT	-	4	16	2	-	-	-	-	-	-	1	RELAY AT SAME LOCATION	
2223+25L	LT	2	6	-	-	-	-	24	2	-	-	1	RELAY AT SAME LOCATION	
2249+50A	LT	-	-	-	-	-	-	-	-	-	-	1	BOX CULVERT, INSTALL CULVERT MARKER	
2259+50A	LT	-	-	-	-	-	-	-	-	-	-	1	INSTALL CULVERT MARKER	
TOTAL		30	64	128	20	14	1	36	9	18	5	55		

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EROSION CONTROL												
		606.0300	625.0500	627.0200	628.7005	628.7504	628.7555	629.0210	630.0130	630.0200	645.0120	
LOCATION		RIPRAP HEAVY	SALVAGED TOPSOIL	MULCHING	INLET PROTECTION TYPE A	TEMPORARY DITCH CHECKS	CULVERT PIPE CHECKS	FERTILIZER TYPE B	SEEDING MIXTURE NO. 30	SEEDING TEMPORARY	GEOTEXTILE FABRIC TYPE HR	
STATION		CY	SY	SY	EACH	LF	EACH	CWT	LB	LB	SY	REMARKS
EASTBOUND												
1114+80	RT	-	159	159	-	-	14	0.10	2.86	4.28	-	2@54 INCH APRON ENDWALL
1126+15	RT	-	134	134	-	-	5	0.08	2.41	3.61	-	36 INCH APRON ENDWALL
1138+50	LT	-	191	191	-	-	-	0.12	3.44	5.17	-	30 INCH APRON ENDWALL
1149+50	RT	-	140	140	-	-	7	0.09	2.52	3.78	-	60 INCH APRON ENDWALL
1149+50	LT	-	140	140	-	-	-	0.09	2.52	3.78	-	60 INCH APRON ENDWALL
1153+40	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1166+75	LT	-	159	159	-	-	-	0.10	2.86	4.28	-	2@54 INCH APRON ENDWALL
1205+75	LT	-	176	176	-	-	-	0.11	3.17	4.75	-	48 INCH APRON ENDWALL
1217+75	LT	-	536	536	-	15	-	0.34	9.65	14.47	-	MEDIAN CROSSOVER GRADING
1218+75	LT	-	332	332	-	-	-	0.21	5.98	8.96	-	MEDIAN CROSSOVER GRADING
1256+00	RT	-	134	134	-	-	3	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1276+00	LT	-	100	100	1	-	-	0.06	1.80	2.70	-	INLET
1276+00	RT	-	100	100	-	-	-	0.06	1.80	2.70	-	18 INCH APRON ENDWALL
1280+00	LT	-	100	100	1	-	-	0.06	1.80	2.70	-	INLET
1280+00	RT	-	100	100	-	-	-	0.06	1.80	2.70	-	18 INCH APRON ENDWALL
1289+00	LT	-	100	100	1	-	-	0.06	1.80	2.70	-	INLET
1289+00	RT	-	100	100	-	-	-	0.06	1.80	2.70	-	18 INCH APRON ENDWALL
1307+00	LT	-	292	292	-	-	-	0.18	5.26	7.89	-	MEDIAN CROSSOVER GRADING
1308+00	LT	-	308	308	-	-	-	0.19	5.54	8.31	-	MEDIAN CROSSOVER GRADING
1371+00	RT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
1376+05	RT	-	156	156	-	-	10	0.10	2.80	4.20	-	2@48 INCH APRON ENDWALL
1380+50	LT	-	119	119	-	15	-	0.07	2.14	3.20	-	MEDIAN CROSSOVER GRADING
1381+00	LT	-	116	116	2	-	-	0.07	2.09	3.13	-	MEDIAN CROSSOVER GRADING
1407+00	RT	-	152	152	-	-	10	0.10	2.74	4.12	-	2@42 INCH APRON ENDWALL
1481+75	RT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
1499+25	LT	-	510	510	-	15	-	0.32	9.18	13.77	-	MEDIAN CROSSOVER GRADING
1500+50	LT	-	326	326	-	-	3	0.21	5.87	8.80	-	MEDIAN CROSSOVER GRADING
1526+75	RT	-	134	134	-	-	3	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1531+90	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	24 INCH APRON ENDWALL
1556+50	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1556+50	RT	-	134	134	-	-	3	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1559+00	LT	-	1,036	1,036	-	15	-	0.65	18.64	27.96	-	MEDIAN CROSSOVER GRADING
1560+00	LT	-	1,006	1,006	-	15	-	0.63	18.10	27.15	-	MEDIAN CROSSOVER GRADING
1564+25	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1564+25	RT	-	134	134	-	-	3	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1572+80	LT	-	243	243	-	-	-	0.15	4.37	6.55	-	24 INCH APRON ENDWALL
1572+80	RT	-	205	205	-	-	3	0.13	3.70	5.54	-	24 INCH APRON ENDWALL
1584+00	LT	-	205	205	-	-	-	0.13	3.70	5.54	-	24 INCH APRON ENDWALL
1584+00	RT	-	168	168	-	-	3	0.11	3.02	4.54	-	24 INCH APRON ENDWALL
1592+00	LT	-	205	205	-	-	-	0.13	3.70	5.54	-	24 INCH APRON ENDWALL
1592+00	RT	-	205	205	-	-	3	0.13	3.70	5.54	-	24 INCH APRON ENDWALL
1609+05	RT	-	134	134	-	-	5	0.08	2.41	3.61	-	36 INCH APRON ENDWALL
1648+50	RT	-	134	134	-	-	3	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1665+75	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1665+75	RT	-	134	134	-	-	3	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1687+00	LT	-	283	283	-	-	-	0.18	5.09	7.64	-	MEDIAN CROSSOVER GRADING
1688+00	LT	-	352	352	-	-	-	0.22	6.34	9.51	-	24 INCH APRON ENDWALL
1688+00	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	24 INCH APRON ENDWALL
1693+00	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	24 INCH APRON ENDWALL
1693+00	RT	-	168	168	-	-	3	0.11	3.02	4.54	-	24 INCH APRON ENDWALL
1703+00	LT	-	168	168	-	-	-	0.11	3.02	4.54	-	24 INCH APRON ENDWALL
1703+00	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	24 INCH APRON ENDWALL
1713+00	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	24 INCH APRON ENDWALL

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EROSION CONTROL CONTINUED												
		606.0300	625.0500	627.0200	628.7005	628.7504	628.7555	629.0210	630.0130	630.0200	645.0120	
LOCATION		RIPRAP HEAVY	SALVAGED TOPSOIL	MULCHING	INLET PROTECTION TYPE A	TEMPORARY DITCH CHECKS	CULVERT PIPE CHECKS	FERTILIZER TYPE B	SEEDING MIXTURE NO. 30	SEEDING TEMPORARY	GEOTEXTILE FABRIC TYPE HR	
STATION		CY	SY	SY	EACH	LF	EACH	CWT	LB	LB	SY	REMARKS
EASTBOUND CONT.												
1743+00	RT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
1755+00	RT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
1778+00	LT	-	205	205	-	-	3	0.13	3.70	5.54	-	18 INCH APRON ENDWALL
1800+00	RT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
1824+00	LT	-	205	205	-	-	3	0.13	3.70	5.54	-	18 INCH APRON ENDWALL
1833+80	LT	-	168	168	-	-	3	0.11	3.02	4.54	-	24 INCH APRON ENDWALL
1833+80	RT	-	168	168	-	-	-	0.11	3.02	4.54	-	24 INCH APRON ENDWALL
1840+00	LT	-	100	100	-	-	3	0.06	1.80	2.70	-	30 INCH APRON ENDWALL
1840+00	RT	-	100	100	-	-	-	0.06	1.80	2.70	-	30 INCH APRON ENDWALL
1879+30	LT	-	309	309	-	15	-	0.19	5.57	8.35	-	MEDIAN CROSSOVER GRADING
1880+00	LT	-	120	120	2	-	-	0.08	2.16	3.24	-	MEDIAN CROSSOVER GRADING
1906+75	RT	-	210	210	-	-	-	0.13	3.78	5.68	-	30 INCH APRON ENDWALL
1956+00	LT	-	101	101	-	-	-	0.06	1.81	2.72	-	MEDIAN CROSSOVER GRADING
1956+75	LT	-	123	123	-	-	-	0.08	2.21	3.31	-	MEDIAN CROSSOVER GRADING
1994+00	RT	18	172	172	-	-	-	0.11	3.10	4.64	43	36 INCH APRON ENDWALL
2005+19	RT	-	442	442	-	-	-	0.28	7.95	11.93	-	54 INCH APRON ENDWALL
2012+75	RT	-	137	137	-	-	-	0.09	2.46	3.70	-	42 INCH APRON ENDWALL
2037+60	LT	-	100	100	1	-	-	0.06	1.80	2.70	-	INLET
2037+60	RT	-	100	100	-	-	-	0.06	1.80	2.70	-	18 INCH APRON ENDWALL
2058+50	LT	-	100	100	1	-	-	0.06	1.80	2.70	-	INLET
2058+50	RT	-	156	156	-	-	10	0.10	2.80	4.20	-	2@48 INCH APRON ENDWALL
2089+25	RT	-	156	156	-	-	10	0.10	2.80	4.20	-	2@48 INCH APRON ENDWALL
2156+25	RT	-	134	134	-	-	5	0.08	2.41	3.61	-	36 INCH APRON ENDWALL
2162+00	RT	-	137	137	-	-	5	0.09	2.46	3.70	-	42 INCH APRON ENDWALL
2172+00	RT	-	156	156	-	-	10	0.10	2.80	4.20	-	2@48 INCH APRON ENDWALL
2202+50	LT	-	727	727	-	15	-	0.46	13.08	19.62	-	MEDIAN CROSSOVER GRADING
2210+00	RT	-	149	149	-	-	10	0.09	2.69	4.03	-	2@36 INCH APRON ENDWALL
2250+60	LT	-	133	133	2	-	-	0.08	2.40	3.60	-	MEDIAN CROSSOVER GRADING
2251+50	LT	-	161	161	-	-	-	0.10	2.89	4.33	-	MEDIAN CROSSOVER GRADING
2279+00	RT	-	149	149	-	-	10	0.09	2.69	4.03	-	2@36 INCH APRON ENDWALL
2302+50	LT	-	287	287	-	15	-	0.18	5.16	7.74	-	MEDIAN CROSSOVER GRADING
2303+75	RT	-	149	149	-	-	10	0.09	2.69	4.03	-	2@36 INCH APRON ENDWALL
2327+00	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	24 INCH APRON ENDWALL
EB SUBTOTAL		18	17,051	17,051	11	120	181	11	307	460	43	
WESTBOUND												
1114+80A	RT	-	159	159	-	-	14	0.10	2.86	4.28	-	2@54 INCH APRON ENDWALL
1138+25A	RT	-	-	-	-	-	3	-	-	-	-	30 INCH APRON ENDWALL
1149+80A	LT	-	180	180	-	-	-	0.11	3.24	4.86	-	60 INCH APRON ENDWALL
1149+80A	RT	-	180	180	-	-	7	0.11	3.24	4.86	-	60 INCH APRON ENDWALL
1152+75A	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1153+10A	RT	-	134	134	-	-	3	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1189+90A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	24 INCH APRON ENDWALL
1204+40A	RT	-	176	176	-	-	5	0.11	3.17	4.75	-	48 INCH APRON ENDWALL
1225+40A	LT	-	293	293	-	-	-	0.18	5.28	7.92	-	48 INCH APRON ENDWALL
1245+00A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
1255+25A	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	30 INCH APRON ENDWALL
1376+00A	LT	-	156	156	-	-	-	0.10	2.80	4.20	-	2@48 INCH APRON ENDWALL
1381+00A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
1401+40A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
1406+00A	LT	-	152	152	-	-	-	0.10	2.74	4.12	-	2@42 INCH APRON ENDWALL

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EROSION CONTROL CONTINUED													
		606.0300	625.0500	627.0200	628.7005	628.7504	628.7555	629.0210	630.0130	630.0200	645.0120		
LOCATION		RIPRAP HEAVY	SALVAGED TOPSOIL	MULCHING	INLET PROTECTION TYPE A	TEMPORARY DITCH CHECKS	CULVERT PIPE CHECKS	FERTILIZER TYPE B	SEEDING MIXTURE NO. 30	SEEDING TEMPORARY	GEOTEXTILE FABRIC TYPE HR		
STATION		CY	SY	SY	EACH	LF	EACH	CWT	LB	LB	SY	REMARKS	
WESTBOUND CONT.													
1448+25A	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	36	INCH APRON ENDWALL
1492+50A	LT	-	243	243	-	-	-	0.15	4.37	6.55	-	18	INCH APRON ENDWALL
1557+00A	LT	-	210	210	-	-	-	0.13	3.78	5.68	-	30	INCH APRON ENDWALL
1557+00A	RT	-	210	210	-	-	3	0.13	3.78	5.68	-	30	INCH APRON ENDWALL
1564+00A	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	30	INCH APRON ENDWALL
1564+25A	RT	-	134	134	-	-	3	0.08	2.41	3.61	-	30	INCH APRON ENDWALL
1572+75A	LT	-	168	168	-	-	-	0.11	3.02	4.54	-	24	INCH APRON ENDWALL
1572+75A	RT	-	205	205	-	-	3	0.13	3.70	5.54	-	24	INCH APRON ENDWALL
1584+25A	LT	-	205	205	-	-	-	0.13	3.70	5.54	-	24	INCH APRON ENDWALL
1584+25A	RT	-	205	205	-	-	3	0.13	3.70	5.54	-	24	INCH APRON ENDWALL
1592+25A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	24	INCH APRON ENDWALL
1592+25A	RT	-	168	168	-	-	3	0.11	3.02	4.54	-	24	INCH APRON ENDWALL
1601+25A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18	INCH APRON ENDWALL
1609+40A	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	36	INCH APRON ENDWALL
1634+25A	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	30	INCH APRON ENDWALL
1634+25A	RT	-	134	134	-	-	3	0.08	2.41	3.61	-	30	INCH APRON ENDWALL
1647+30A	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	30	INCH APRON ENDWALL
1666+00A	LT	-	172	172	-	-	-	0.11	3.10	4.64	-	30	INCH APRON ENDWALL
1666+00A	RT	-	134	134	-	-	3	0.08	2.41	3.61	-	30	INCH APRON ENDWALL
1688+25A	LT	-	205	205	-	-	-	0.13	3.70	5.54	-	24	INCH APRON ENDWALL
1688+25A	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	24	INCH APRON ENDWALL
1693+25A	LT	-	168	168	-	-	-	0.11	3.02	4.54	-	24	INCH APRON ENDWALL
1693+25A	RT	-	168	168	-	-	3	0.11	3.02	4.54	-	24	INCH APRON ENDWALL
1703+25A	RT	-	243	243	-	-	3	0.15	4.37	6.55	-	24	INCH APRON ENDWALL
1713+25A	LT	-	243	243	-	-	-	0.15	4.37	6.55	-	24	INCH APRON ENDWALL
1713+25A	RT	-	243	243	-	-	3	0.15	4.37	6.55	-	24	INCH APRON ENDWALL
1723+25A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18	INCH APRON ENDWALL
1730+25A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18	INCH APRON ENDWALL
1730+25A	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	18	INCH APRON ENDWALL
1790+40A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18	INCH APRON ENDWALL
1800+30A	LT	-	168	168	-	-	-	0.11	3.02	4.54	-	18	INCH APRON ENDWALL
1835+00A	LT	-	100	100	-	-	3	0.06	1.80	2.70	-	24	INCH APRON ENDWALL
1835+00A	RT	-	100	100	-	-	-	0.06	1.80	2.70	-	24	INCH APRON ENDWALL
1844+70A	LT	-	100	100	-	-	3	0.06	1.80	2.70	-	24	INCH APRON ENDWALL
1844+70A	RT	-	100	100	-	-	-	0.06	1.80	2.70	-	24	INCH APRON ENDWALL
1874+75A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18	INCH APRON ENDWALL
1880+10A	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	30	INCH APRON ENDWALL
1929+95A	LT	-	131	131	-	-	3	0.08	2.35	3.53	-	24	INCH APRON ENDWALL
1935+50A	LT	-	168	168	-	-	3	0.11	3.02	4.54	-	24	INCH APRON ENDWALL
1974+10A	LT	-	140	140	-	-	7	0.09	2.52	3.78	-	60	INCH APRON ENDWALL
1975+00A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18	INCH APRON ENDWALL
1984+00A	LT	-	215	215	-	-	5	0.14	3.87	5.81	-	48	INCH APRON ENDWALL
1993+50A	LT	-	172	172	-	-	5	0.11	3.10	4.64	-	36	INCH APRON ENDWALL
2003+60A	LT	-	220	220	-	-	7	0.14	3.96	5.94	-	54	INCH APRON ENDWALL
2012+10A	LT	-	137	137	-	-	5	0.09	2.46	3.70	-	42	INCH APRON ENDWALL
2026+60A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	24	INCH APRON ENDWALL
2044+80A	LT	-	172	172	-	-	-	0.11	3.10	4.64	-	30	INCH APRON ENDWALL
2058+10A	LT	-	333	333	-	-	-	0.21	6.00	9.00	-	2@48	INCH APRON ENDWALL
2066+00A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18	INCH APRON ENDWALL
2066+00A	RT	-	197	197	1	-	-	0.12	3.54	5.31	-	18	INCH APRON ENDWALL & CROSSOVER
2067+00A	RT		159	159	-	-	-	0.10	2.87	4.31			MEDIAN CROSSOVER GRADING

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EROSION CONTROL CONTINUED												
		606.0300	625.0500	627.0200	628.7005	628.7504	628.7555	629.0210	630.0130	630.0200	645.0120	
LOCATION		RIPRAP HEAVY	SALVAGED TOPSOIL	MULCHING	INLET PROTECTION TYPE A	TEMPORARY DITCH CHECKS	CULVERT PIPE CHECKS	FERTILIZER TYPE B	SEEDING MIXTURE NO. 30	SEEDING TEMPORARY	GEOTEXTILE FABRIC TYPE HR	
STATION		CY	SY	SY	EACH	LF	EACH	CWT	LB	LB	SY	REMARKS
WESTBOUND CONT.												
2074+25A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
2074+25A	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
2080+60A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
2080+60A	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
2089+75A	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
2090+10A	LT	-	200	200	-	-	-	0.13	3.60	5.40	-	2@48 INCH APRON ENDWALL
2098+50A	LT	-	168	168	-	-	-	0.11	3.02	4.54	-	18 INCH APRON ENDWALL
2098+50A	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
2112+25A	LT	-	168	168	-	-	-	0.11	3.02	4.54	-	24 INCH APRON ENDWALL
2112+25A	RT	-	131	131	-	-	3	0.08	2.35	3.53	-	24 INCH APRON ENDWALL
2123+00A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	24 INCH APRON ENDWALL
2138+25A	LT	-	168	168	-	-	-	0.11	3.02	4.54	-	18 INCH APRON ENDWALL
2156+50A	LT	-	134	134	-	-	-	0.08	2.41	3.61	-	36 INCH APRON ENDWALL
2161+60A	LT	-	137	137	-	-	-	0.09	2.46	3.70	-	42 INCH APRON ENDWALL
2167+60A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
2171+75A	LT	-	200	200	-	-	-	0.13	3.60	5.40	-	2@48 INCH APRON ENDWALL
2192+90A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
2200+50A	RT	-	234	234	2	-	-	0.15	4.20	6.31	-	18 INCH APRON ENDWALL & CROSSOVER
2201+50A	RT	-	727	727	1	-	-	0.46	13.08	19.62	-	MEDIAN CROSSOVER GRADING
2210+50A	LT	-	192	192	-	-	-	0.12	3.46	5.18	-	2@36 INCH APRON ENDWALL
2223+25A	LT	-	340	340	-	-	-	0.21	6.12	9.18	-	2@54 INCH APRON ENDWALL
2269+25A	LT	-	131	131	-	-	-	0.08	2.35	3.53	-	18 INCH APRON ENDWALL
2278+10A	LT	-	149	149	-	-	-	0.09	2.69	4.03	-	2@36 INCH APRON ENDWALL
2300+90A	RT	-	251	251	2	-	-	0.16	4.51	6.77	-	MEDIAN CROSSOVER GRADING
2304+00A	LT	-	149	149	-	-	-	0.09	2.69	4.03	-	2@36 INCH APRON ENDWALL
WB SUBTOTAL		-	15,184	15,184	6	-	124	10	273	410	-	
UNDISTRIBUTED		32	3,265	3,265	10	45	20	5.08	170.06	229.59	57	
TOTALS		50	35,500	35,500	27	165	325	26	750	1,100	100	

MOBILIZATIONS EROSION CONTROL				
		628.1905	628.1910	
		MOBILIZATIONS	MOBILIZATIONS EMERGENCY	
		EROSION CONTROL	EROSION CONTROL	
STATION	LOCATION	EACH	EACH	
STAGE 1	EB OUTSIDE LANE	1	1	
STAGE 2	WB OUTSIDE LANE	1	1	
STAGE 3	EB INSIDE LANE	1	1	
STAGE 4	WB INSIDE LANE	1	1	
UNDISTRIBUTED	1071-02-60	2	1	
		6	5	

SILT FENCING				
		628.1504	628.1520	
		SILT FENCE	SILT FENCE	
			MAINTENACE	
STATION	LOCATION	LF	LF	REMARKS
1217+00	LT	125	125	MEDIAN CROSSOVER GRADING
1219+50	LT	125	125	MEDIAN CROSSOVER GRADING
1306+50	LT	90	90	MEDIAN CROSSOVER GRADING
1308+50	LT	90	90	MEDIAN CROSSOVER GRADING
1380+50	LT	60	60	MEDIAN CROSSOVER GRADING
1559+00	LT	150	150	MEDIAN CROSSOVER GRADING
1560+00	LT	150	150	MEDIAN CROSSOVER GRADING
1687+00	LT	160	160	MEDIAN CROSSOVER GRADING
1879+30	LT	60	60	MEDIAN CROSSOVER GRADING
2202+50	LT	90	90	MEDIAN CROSSOVER GRADING
2302+50	LT	60	60	MEDIAN CROSSOVER GRADING
UNDISTRIBUTED		240	240	
		1,400	1,400	

TRAFFIC CONTROL															
STAGE AND LOCATION	643.0200	643.0300	643.0420		643.0705		643.0715		643.0800		643.0900		643.1050		
	TRAFFIC	TRAFFIC	TRAFFIC		TRAFFIC		TRAFFIC		TRAFFIC		TRAFFIC		TRAFFIC		
	CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		
	SURVEILLANCE	CONTROL	BARRICADES		WARNING		WARNING		ARROW		SIGNS		SIGNS PCMS		
	AND	DRUMS	TYPE III		LIGHTS		LIGHTS		BOARDS						
	(PROJECT)				TYPE A		TYPE C								
DAYS	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	
STAGE 1 - EASTBOUND OUTSIDE LANE															
MAINLINE STA. 1113+70 TO STA. 2328+80	17	8,065	474	544	32	1,088	64	289	17	34	2	918	54	34	2
EB REST AREA #15 ON-RAMP		180	30	6	1	12	2	60	10	-	-	30	5	-	-
EB OFF-RAMP @ STH 27		156	26	6	1	12	2	54	9	-	-	18	3	-	-
EB ON-RAMP @ STH 27		249	42	6	1	12	2	60	10	-	-	30	5	-	-
EB OFF-RAMP @ STH 16		156	26	6	1	12	2	54	9	-	-	18	3	-	-
EB ON-RAMP @ STH 16		252	42	6	1	12	2	60	10	-	-	30	5	-	-
EB OFF-RAMP @ STH 131		156	26	6	1	12	2	54	9	-	-	18	3	-	-
EB ON-RAMP @ STH 131		234	39	6	1	12	2	60	10	-	-	30	5	-	-
STAGE 1 TOTALS	17	9,448		586		1,172		691		34		1,092		34	
STAGE 2 - WESTBOUND OUTSIDE LANE															
MAINLINE STA. 1114+14A TO STA. 2326+75A	25	11,860	474	800	32	1,600	64	425	17	50	2	1,350	54	50	2
WB OFF-RAMP @ STH 131		234	26	9	1	18	2	81	9	-	-	27	3	-	-
WB ON-RAMP @ STH 131		342	38	9	1	18	2	90	10	-	-	45	5	-	-
WB OFF-RAMP @ STH 16		234	26	9	1	18	2	81	9	-	-	27	3	-	-
WB ON-RAMP @ STH 16		369	41	9	1	18	2	90	10	-	-	45	5	-	-
WB OFF-RAMP @ STH 27		234	26	9	1	18	2	81	9	-	-	27	3	-	-
WB ON-RAMP @ STH 27		365	41	9	1	18	2	90	10	-	-	45	5	-	-
WB REST AREA #16 ON-RAMP		270	30	9	1	18	2	90	10	-	-	45	5	-	-
STAGE 2 TOTALS	25	13,908		863		1,726		1,028		50		1,611		50	
STAGE 3 - EASTBOUND INSIDE LANE															
MAINLINE STA. 1113+70 TO STA. 2328+80	8	3,795	474	256	32	512	64	136	17	16	2	432	54	16	2
EB REST AREA #15 ON-RAMP		-	-	-	-	-	-	-	-	-	-	9	3	-	-
EB ON-RAMP @ STH 27		-	-	-	-	-	-	-	-	-	-	9	3	-	-
EB ON-RAMP @ STH 16		-	-	-	-	-	-	-	-	-	-	9	3	-	-
EB ON-RAMP @ STH 131		-	-	-	-	-	-	-	-	-	-	9	3	-	-
STAGE 3 TOTALS	8	3,795		256		512		136		16		468		16	
STAGE 4 - WESTBOUND INSIDE LANE															
MAINLINE STA. 1114+14A TO STA. 2326+75A	10	4,744	474	320	32	640	64	170	17	20	2	540	54	20	2
WB ON-RAMP @ STH 131		-	-	-	-	-	-	-	-	-	-	12	3	-	-
WB ON-RAMP @ STH 16		-	-	-	-	-	-	-	-	-	-	12	3	-	-
WB ON-RAMP @ STH 27		-	-	-	-	-	-	-	-	-	-	12	3	-	-
WB REST AREA #16 ON-RAMP		-	-	-	-	-	-	-	-	-	-	12	3	-	-
STAGE 4 TOTALS	10	4,849		345		640		195		20		629		20	
UNDISTRIBUTED															
TOTALS	60	32,000		2,050		4,050		2,050		120		3,800		120	

PAVEMENT MARKING									
		646.0106			646.0126		647.0566	647.0746	
		PAVEMENT MARKING EPOXY 4-INCH			PAVEMENT MARKING EPOXY 8-INCH		PAVEMENT MARKING STOP LINE EPOXY 18-INCH	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH	
LOCATION		WHITE (SOLID)	WHITE (DASHED CL)	YELLOW (SOLID)	WHITE (SOLID)	WHITE (DASHED)	WHITE	WHTIE	
STATION	TO STATION	LF	LF	LF	LF	LF	LF	LF	COMMENTS
EASTBOUND:									
1113+70	- 1336+25	22,243	5,797	23,188	1,441	-	-	-	WEST COUNTY LINE TO STH 27
1336+25	- 1380+00	6,532	590	4,475	1,535	178	40	141	STH 27 INTERCHANGE
1380+00	- 1511+80	13,200	3,662	14,639	-	-	-	-	STH 27 TO STH 16
1511+80	- 1557+60	6,950	716	5,284	1,599	56	70	124	STH 16 INTERCHANGE
1557+60	- 2211+45	65,400	16,909	67,630	-	-	-	-	STH 16 TO STH 131
2211+45	- 2247+95	5,145	415	3,135	1,757	175	56	118	STH 131 INTERCHANGE
2247+95	- 2315+20	6,730	2,081	8,325	-	-	-	-	STH 131 TO USH 12
2315+20	- 2328+60	2,185	209	1,590	535	183	35	165	USH 12 INTERCHANGE
EASTBOUND SUBTOTALS		128,385	30,378	128,266	6,867	591	201	548	
EASTBOUND TOTALS				287,029		7,458	201	548	
WESTBOUND:									
1114+14A	- 1335+90A	22,175	5,787	23,143	1,830	148	-	189	WEST COUNTY LINE TO STH 27
1335+90A	- 1378+50A	6,335	590	4,405	1,890	178	34	141	STH 27 INTERCHANGE
1378+50A	- 1502+50A	12,380	3,645	14,584	-	-	-	-	STH 27 TO STH 16
1502+50A	- 1547+75A	6,980	730	5,310	1,590	185	70	134	STH 16 INTERCHANGE
1547+75A	- 2208+50A	66,080	16,890	67,560	-	-	-	-	STH 16 TO STH 131
2208+50A	- 2245+50A	5,175	415	3,105	1,713	175	56	111	STH 131 INTERCHANGE
2245+50A	- 2306+80A	6,130	2,081	8,325	-	-	-	-	STH 131 TO USH 12
2306+80A	- 2326+75A	2,475	178	1,239	1,370	-	-	-	USH 12 INTERCHANGE
WESTBOUND SUBTOTALS		127,730	30,316	127,671	8,393	685	160	575	
WESTBOUND TOTALS				285,717		9,078			
TOTALS				572,746	16,536	361	1,123		

CONSTRUCTION STAKING

650.8000				650.9910	
CONSTRUCTION STAKING RESURFACING REFERENCE				CONSTRUCTION STAKING SUPPLEMENTAL CONTROL	
STATION	TO	STATION	LF	PROJECT	LS
1113+70	-	2328+80	121,510	1071-02-60	1
1114+14A	-	2326+75A	121,261		
TOTAL			242,771	TOTALS	1

650.9920					
CONSTRUCTION STAKING SLOPE STAKES					
STATION	TO	STATION	LOCATION	LF	COMMENTS
1139+91	-	1140+44	LT	53	CROSSOVER #1
0+00R	-	1+25R	LT	125	CROSSOVER #2
0+00R	-	1+25R	RT	125	CROSSOVER #2
0+00S	-	0+90S	LT	90	CROSSOVER #3
0+00S	-	0+90S	RT	90	CROSSOVER #3
0+00T	-	0+60T	LT	60	CROSSOVER #4
0+00T	-	0+60T	RT	60	CROSSOVER #4
0+00U	-	1+30U	LT	130	CROSSOVER #5
0+00U	-	1+30U	RT	130	CROSSOVER #5
0+00V	-	1+70V	LT	170	CROSSOVER #6
0+00V	-	1+70V	RT	170	CROSSOVER #6
0+00W	-	1+97W	LT	197	CROSSOVER #7
0+00W	-	1+97W	RT	197	CROSSOVER #7
0+00X	-	0+67X	LT	67	CROSSOVER #8
0+00X	-	0+67X	RT	67	CROSSOVER #8
0+00Y	-	0+60Y	LT	60	CROSSOVER #9
0+00Y	-	0+60Y	RT	60	CROSSOVER #9
2004+75	-	2005+25	RT	50	CULVERT EXTENSIONS
0+00Z	-	0+83Z	LT	83	CROSSOVER #10
0+00Z	-	0+83Z	RT	83	CROSSOVER #10
0+00AA	-	0+98AA	LT	98	CROSSOVER #11
0+00AA	-	0+98AA	RT	98	CROSSOVER #11
0+00BB	-	0+60BB	LT	60	CROSSOVER #12
0+00BB	-	0+60BB	RT	60	CROSSOVER #12
0+00CC	-	0+73CC	LT	73	CROSSOVER #13
0+00CC	-	0+73CC	RT	73	CROSSOVER #13
TOTAL				2,529	

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PERMANENT SIGNING
SHEET 1 OF 13

SIGN NUMBER	APPROX. STATION	ROUTE	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	SIGN MESSAGE	SIGN SIZE IN X IN	637.2210	637.2215	637.2230	634.0612 634.0614 634.0616 634.0618 634.0620					638.2602	638.3000	SIGN	REMARKS
									SIGNS TYPE II	SIGNS TYPE II	SIGNS TYPE II	POSTS WOOD 4X6 INCH					REMOVING SIGNS	REMOVING SMALL SIGN SUPPORTS	ON SAME MOUNTED	
									REFLECTIVE H SF	REFLECTIVE H FOLDING SF	REFLECTIVE F SF	12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	20 FT EACH	TYPE II EACH	EACH	POST AS	
1-00	1112+50	90E	Right		W4-1R	Merging Traffic Symbol (Right)		48X48			16.00			1	1					
1-01R	1116+75	90E	Right		W4-1R	Merging Traffic Symbol (Right)		48X48									1	2		
1-02	1136+00	90E	Right		J4-1	Reassurance Assembly (1 Headed Route Panel)	East 90	36X54	13.50						1					
1-03R	1137+75	90E	Right		MB3-2	East - BLUE	East	30X15											1-04R	
1-04R	1137+75	90E	Right		M1-1	Interstate Shield	90	24X24									1	1		
1-05	1137A+50	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1						
1-06	1140+00	90E	Right		R8-7	Emergency Stopping Only		48X36	12.00					1						
1-07R	1142+60	90E	Right		R8-7	Emergency Stopping Only		48X36									1	1		
1-08	1143+70	90E	Right		D10-2	Milepost Marker (2 Digit)	21	12X36	3.00				1							
1-09R	1143+70	90E	Right		D10-2	Milepost Marker (2 Digit)	21	12X36									1	1		
1-10	1143+80	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1						
1-12R	1143+60	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48									1	1		
1-13R	1143A+70	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48									1		1-12R	
1-14R	1143A+80	90W	Left		D10-2	Milepost Marker (2 Digit)	21	12X36									1	1		
1-15	1143A+80	90W	Left		D10-2	Milepost Marker (2 Digit)	21	12X36	3.00				1							
2-02	1151+00	90E	Left		R4-3	Slower Traffic Keep Right		48X60	20.00						1	1				
2-04R	1162A+70	90E	Right		R4-3	Slower Traffic Keep Right		48X60									1	2		
2-05R	1166A+00	90W	Left		M1-1	Interstate Shield	90	36X36									1	1		
2-06R	1166A+00	90W	Left		MB3-4	West - BLUE	West	36X18											2-05R	
2-07	1166A+00	90W	Left		J4-1	Reassurance Assembly (1 Headed Route Panel)	West 90	36X54	13.50						1					
3-00R	1185A+50	90W	Left		W4-1R	Merging Traffic Symbol (Right)		48X48									1	2		
3-01	1189A+75	90W	Left		W4-1R	Merging Traffic Symbol (Right)		48X48			16.00			1	1					
3-02	1196A+50	90W	Left		D10-2	Milepost Marker (2 Digit)	22	12X36	3.00				1							
3-03R	1196A+50	90W	Left		D10-2	Milepost Marker (2 Digit)	22	12X36									1	1		
3-04	1196+50	90E	Right		D10-2	Milepost Marker (2 Digit)	22	12X36	3.00				1							
3-05R	1196+50	90E	Right		D10-2	Milepost Marker (2 Digit)	22	12X36									1	1		
4-00R	1206A+25	90W	Exit Gore		E5-54	Rest Area/Arrow right	Rest Area [Tilt Right Arrow]	72X72									1	2		
4-01	1206A+25	90W	Exit Gore		E5-54	Rest Area/Arrow right	Rest Area [Tilt Right Arrow]	72X72	36.00							2				
4-02R	1212A+00	90W	Left		W13-3	Ramp Speed _ MPH	30	48X60									1	2		
4-03	1212A+00	90W	Left		W13-3	Ramp Speed _ MPH	30	48X60			20.00					1				
4-06	1217A+90	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1						
4-07R	1218A+50	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48									1	1		
4-08R	1218+00	90E	Median		R3-4	No U-Turn Symbol		36X36									1	1		
4-09R	1218+00	90E	Median		R3-4A	Except Maintenance And Police Authorized Vehicles		36X12											4-08R	
4-10	1218+40	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1						
5-00R	1249A+75	90W	Left		D10-2	Milepost Marker (2 Digit)	23	12X36									1	1		
5-01	1249A+75	90W	Left		D10-2	Milepost Marker (2 Digit)	23	12X36	3.00				1							
5-02R	1249+80	90E	Right		D10-2	Milepost Marker (2 Digit)	23	12X36									1	1		
5-03	1249+80	90E	Right		D10-2	Milepost Marker (2 Digit)	23	12X36	3.00				1							
6-02R	1270A+50	90W	Left		R8-7	Emergency Stopping Only		48X36									1	1		
7-00R	1297A+00	90W	Left		MB3-4	West - BLUE	West	30X15											7-01R	
7-01R	1297A+00	90W	Left		M1-1	Interstate Shield	90	36X36									1	1		
7-04	1303+60	90E	Right	STH 27	D10-2	Milepost Marker (2 Digit)	24	12X36	3.00				1							
7-05R	1303+60	90E	Right	STH 27	D10-2	Milepost Marker (2 Digit)	24	12X36									1	1		
7-06R	1303A+60	90W	Left		D10-2	Milepost Marker (2 Digit)	24	12X36									1	1		
7-07	1303A+60	90W	Left		D10-2	Milepost Marker (2 Digit)	24	12X36	3.00				1							
7-08	1307A+60	90W	Median	STH 27	R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00						1					
7-09R	1307+60	90E	Median	STH 27	R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48									1	1		
7-10R	1307A+60	90W	Median	STH 27	R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48											7-09R	
7-11	1308+05	90E	Median	STH 27	R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1						
7-14	1316A+00	90W	Right		R4-3	Slower Traffic Keep Right		48X60	20.00						2					
8-00	1326A+00	90W	Left		R8-7	Emergency Stopping Only		48X36	12.00					1						
8-03	1331A+00	90W	Left		J4-1	Reassurance Assembly (1 Headed Route Panel)	West 90	36X54	13.50						1		1			
8-08R	1345+80	90E	Right	STH 27	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits	25	72X60									1	2		
8-09R	1345+80	90E	Right	Exit 25	JV-F	Any FOLDING J-Panel	Alternate 90	36X54											8-08R	
SHEET TOTALS									236.50	0.00	52.00	0	8	9	10	4	25	29		

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 77

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PERMANENT SIGNING
SHEET 2 OF 13

PERMANENT SIGNING										637.2210		637.2215		637.2230		634.0612 634.0614 634.0616 634.0618 634.0620					638.2602		638.3000		SIGN		
SIGN NUMBER	APPROX. STATION	ROUTE	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	SIGN MESSAGE	SIGN SIZE IN X IN	REFLECTIVE TYPE II H SF	REFLECTIVE H FOLDING SF	REFLECTIVE F SF	POSTS WOOD 4X6 INCH					SIGNS TYPE II EACH	SMALL SIGN SUPPORTS EACH	MOUNTED ON SAME POST AS	REMARKS							
												12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	20 FT EACH											
8-10	1345+80	90E	Right	Exit 25	JV-F	Any FOLDING J-Panel	Alternate 90	36X54		13.50																8-11	
8-11	1345+80	90E	Right	STH 27	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits	25	72X60	30.00					1		1											
8-12R	1350A+25	90W	Left	STH 27	W4-1R	Merging Traffic Symbol (Right)		48X48									1		2								
8-13	1354A+50	90W	Left	STH 27	W4-1R	Merging Traffic Symbol (Right)		48X48		16.00					1		1										
9-00	1355+70	90E	Right	STH 27	D10-2	Milepost Marker (2 Digit)	25	12X36	3.00					1													
9-01R	1355+70	90E	Right	STH 27	D10-2	Milepost Marker (2 Digit)	25	12X36										1		1							
9-02R	1355A+75	90W	Left	STH 27	D10-2	Milepost Marker (2 Digit)	25	12X36										1		1							
9-03	1355A+75	90W	Left	STH 27	D10-2	Milepost Marker (2 Digit)	25	12X36	3.00					1													
9-04	1360+00	90E	Right	STH 27	W4-1R	Merging Traffic Symbol (Right)		48X48		16.00						1		1									
9-05R	1361+25	90E	Right	STH 27	W4-1R	Merging Traffic Symbol (Right)		48X48										1		2							
9-06R	1369A+25	90W	Exit Gore	STH 27	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits	25	72X60										1		2							
9-07R	1369A+25	90W	Exit Gore	STH 27	JV-F	Any Vertically Configured J - Panel	Alternate 90	36X54																		9-06R	
9-08	1369A+25	90W	Exit Gore	STH 27	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits	25	72X60	30.00								2										
9-09	1369A+25	90W	Exit Gore	STH 27	JV-F	Any Vertically Configured J - Panel	Alternate 90	36X54		13.50																9-08	
9-14R	1379+75	90E	Right		W11-3	Deer Crossing Symbol		48X48										1		2							
9-15R	1380+40	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48										1		1							
9-16R	1380A+40	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48																		9-15R	
9-17	1381A+10	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00								1										
9-18	1381+40	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00																		
10-00R	1360D+00	90W	Island		R5-1	Do Not Enter		36X36										1		1							
10-01	1360D+00	90W	Island		R5-1	Do Not Enter		30X30	6.25					1													
10-02R	1360D+00	90W	Island	STH 27	R1-1	Stop		36X36										1		1							
10-03R	1360D+00	90W	Island	STH 27	R6-3	Divided Highway Crossing Sign and Intersection		30X24																		10-02R	
10-04R	1360D+00	90W	Island	STH 27	R6-2-L	One Way Left Arrow		24X30																		10-02R	
10-05R	1360D+00	90W	Exit Ramp - Right	STH 27	R5-1	Do Not Enter		36X36										1		1							
10-06R	1360D+00	90W	Exit Ramp - Right	STH 27	R1-1	Stop		36X36										1		1							
10-07R	1360D+00	90W	Exit Ramp - Right	STH 27	D9-2	Hospital		24X24																		10-05R	
10-08R	1360D+00	90W	Exit Ramp - Right	STH 27	MB6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Right Arrow]	21X21																		10-05R	
10-09R	1360D+00	90W	Exit Ramp - Right	STH 27	R3-1	No Right Turn Symbol		24X24										1		1							
10-10	1360D+00	90W	Exit Ramp - Right	STH 27	R3-1	No Right Turn Symbol		24X24	4.00							1											
10-11	1360D+00	90W	Exit Ramp - Right	STH 27	R5-1	Do Not Enter		30X30	6.25							1											
10-12	1360D+00	90W	Exit Ramp - Right	STH 27	R1-1	Stop		36X36	7.46																		
10-13	1360D+00	90W	Island	STH 27	R6-2-L	One Way Left Arrow		24X30	5.00																	10-18	Mount on back of 10-18
10-14R	1360D+20	90W	Island	STH 27	W12-1-D	Double Down Arrows		24X24										1		1							
10-15	1360D+20	90W	Island	STH 27	W12-1-D	Double Down Arrows		24X24		4.00		1															
10-16	1360D+00	90W	Island	STH 27	R6-3	Divided Highway Crossing Sign and Intersection		30X24	5.00																	10-18	Mount below 10-18
10-17	1360D+00	90W	Island	STH 27	R6-1R	One Way Right Arrow		36X12	3.00																	10-18	Mount above 10-18
10-18	1360D+00	90W	Island	STH 27	R1-1	Stop		36X36	7.46								1										
10-19	1360D+00	90W	Exit Ramp - Left	STH 27	R1-1	Stop		36X36	7.46							1											
10-20R	1360D+00	90W	Exit Ramp - Left	STH 27	MB4-1	Alternate	Alternate 90	24X12																		10-21R	
10-21R	1360D+00	90W	Exit Ramp - Left	STH 27	M1-1	Interstate Shield		24X24										1		1							
10-22R	1360D+00	90W	Exit Ramp - Left	STH 27	MB6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Right Arrow]	21X21																		10-21R	
10-23R	1360D+00	90W	Exit Ramp - Left	STH 27	R1-1	Stop		36X36										1		1							
10-24R	1358D+25	90W	On Ramp - Left	STH 27	R7-64	No Parking On Ramp		48X30										1		1							
10-25	1358D+25	90W	On Ramp - Left	STH 27	R7-64	No Parking On Ramp		48X30	10.00					1													
10-26R	1359D+25	90W	On Ramp - Left	STH 27	R5-57	Pedestrians Etc, Prohibited		36X36										1		1							
10-27	1359D+25	90W	On Ramp - Left	STH 27	R5-57	Pedestrians Etc, Prohibited		36X36	9.00																		
10-28R	1361D+00	90W	Exit Ramp - Left	STH 27	J3-2	Directional Assembly (2 Headed Route Panel)	South North 27 - 27	48X57										1		2							
							[Left Arrow] [Right Arrow]																				
10-29	1361D+00	90W	Exit Ramp - Left	STH 27	J3-3	Directional Assembly (3 Headed Route Panel)	South North Alternate 27 - 27 - 90	72X57	28.50							1		1									
							[Left Arrow] [Right Arrow] [Right Arrow]																				
10-30R	1362D+25	90W	Exit Ramp - Left	STH 27	R5-1A	Wrong Way		36X24										1		1							
10-31R	1362D+25	90W	Exit Ramp - Right	STH 27	R5-1A	Wrong Way		36X24										1		1							
10-32	1362D+50	90W	Exit Ramp - Left	STH 27	R5-1A	Wrong Way		36X24	6.00					1													
10-33	1362D+50	90W	Exit Ramp - Right	STH 27	R5-1A	Wrong Way		36X24	6.00					1													
10-34	1368D+00	90W	Exit Ramp - Left	STH 27	D7-59R	Tourist Information/Arrow Right		54X36	13.50																		
10-35R	1363D+50	90W	Exit Ramp - Left	STH 27	D1-3	Triple Destination/Arrow	[Left Arrow] Melvina Sparta [Right Arrow] Rockland [Right Arrow]	72X45										1		2							
10-36	1364D+50	90W	Exit Ramp - Left	STH 27	D7-77R (MOD) [Name Rec Area]/Arrow Right	Elroy - Sparta La Crosse River State Trails [Right Arrow]		78X42	22.75							2											
SHEET TOTALS									237.63	27.00	36.00	1	9	10	7	1	21	27									

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 78

E

3

PERMANENT SIGNING																			
SHEET 3 OF 13																			
SIGN NUMBER	APPROX. STATION	ROUTE	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	SIGN MESSAGE	SIGN SIZE IN X IN	637.2210 SIGN TYPE II	637.2215 SIGN TYPE II	637.2230 SIGN TYPE II	634.0612 634.0614 634.0616 634.0618 634.0620					638.2602 REMOVING SIGN	638.3000 REMOVING SMALL SIGN	SIGN MOUNTED
									REFLECTIVE H SF	REFLECTIVE H SF	REFLECTIVE F SF	POSTS WOOD 4X6 INCH					TYPE II EACH	SUPPORTS EACH	ON SAME POST AS
												12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	20 FT EACH			
10-37R	1365D+50	90W	Exit Ramp - Left	STH 27	J2-2	Route Turn Assembly (2 Headed Route Panel)	South North 27 - 27	48X57									1	2	
10-38	1366D+00	90W	Exit Ramp - Left	STH 27	D1-3	Triple Destination/Arrow	[Left Turn Arrow] [Right Turn Arrow] [Left Arrow] Melvina Sparta [Right Arrow] Rockland [Right Arrow]	66X36	16.50					2					
10-39R	1367D+00	90W	Exit Ramp - Left	STH 27	R7-64	No Parking On Ramp		48X30									1	1	
10-40	1367D+50	90W	Exit Ramp - Left	STH 27	J2-2	Route Turn Assembly (2 Headed Route Panel)	South North 27 - 27	48X57	19.00					1					
10-41R	1368D+00	90W	Exit Ramp - Left	STH 27	D7-77R (MOD) [Name Rec Area]/Arrow Right		[Left Turn Arrow] [Right Turn Arrow] La Crosse River Elroy - Sparta State Trails [Right Arrow]	78X42									1	2	
10-42R	1368D+00	90W	Exit Ramp - Left	STH 27	D7-59R	Tourist Information/Arrow Right		54X36											10-41R
10-43	1369D+00	90W	Exit Ramp - Left	STH 27	W3-1	Stop Ahead		36X36			9.00			1					
10-44R	1369D+40	90W	Exit Ramp - Left	STH 27	W3-1	Stop Ahead		48X48									1	2	
10-45	1371D+00	90W	Exit Ramp - Left	STH 27	R7-64	No Parking On Ramp		48X30	10.00					1					
11-00	1344B+00	90E	Exit Ramp - Right	STH 27	R7-64	No Parking On Ramp		48X30	10.00					1					
11-01R	1345B+25	90E	Exit Ramp - Right	STH 27	W3-1	Stop Ahead		48X48									1	2	
11-02	1346B+00	90E	Exit Ramp - Right	STH 27	W3-1	Stop Ahead		36X36			9.00			1					
11-03R	1347B+00	90E	Exit Ramp - Right	STH 27	R7-64	No Parking On Ramp		48X30									1	1	
11-04	1348B+00	90E	Exit Ramp - Right	STH 27	J2-2	Route Turn Assembly (2 Headed Route Panel)	North South 27 - 27	48X57	19.00					1					
11-05R	1348B+50	90E	Exit Ramp - Right	STH 27	J2-3	Route Turn Assembly (3 Headed Route Panel)	[Left Turn Arrow] [Right Turn Arrow] To North South 21 - 27 - 27	72X57									1	2	
11-06	1349B+50	90E	Exit Ramp - Right	STH 27	D1-2	Two Destinations (Arrows)	[Left Turn Arrow] [Left Turn Arrow] [Righ Turn Arrow] [Left Arrow] Sparta Melvina [Right Arrow]	60X30	12.50					2					
11-07R	1350B+25	90E	Exit Ramp - Right	STH 27	D7-77L (MOD) [Name Rec Area]/Arrow Left		Elroy - Sparta La Crosse River State Trails [Left Arrow]	78X42									1	2	
11-08R	1350B+25	90E	Exit Ramp - Right	STH 27	D7-59-L	Tourist Information/Arrow Left		54X36											11-07R
11-09	1351B+00	90E	Exit Ramp - Right	STH 27	D7-77L (MOD) [Name Rec Area]/Arrow Left		Elroy - Sparta La Crosse River State Trails [Left Arrow]	78X42	22.75					2					
11-10R	1352B+00	90E	Exit Ramp - Right	STH 27	D1-2	Two Destinations (Arrows)	[Left Arrow] Sparta Melvina [Right Arrow]	60X30									1	2	
11-11	1352B+50	90E	Exit Ramp - Right	STH 27	D7-59-L	Tourist Information/Arrow Left		54X36	13.50					2					
11-12	1352B+75	90E	Exit Ramp - Left	STH 27	R5-1A	Wrong Way		36X24	6.00				1						
11-13	1352B+75	90E	Exit Ramp - Right	STH 27	R5-1A	Wrong Way		36X24	6.00				1						
11-14R	1353B+50	90E	Exit Ramp - Right	STH 27	R5-1A	Wrong Way		36X24									1	1	
11-15R	1353B+50	90E	Exit Ramp - Left	STH 27	R5-1A	Wrong Way		36X24									1	1	
11-16	1354B+00	90E	Exit Ramp - Right	STH 27	J3-4	Directional Assembly (4 Headed Route Panel)	North [Blank] Alternate South 27 - Hospital - 90 - 27	96X57	38.00					1	1				
11-17R	1354B+00	90E	Exit Ramp - Right	STH 27	J3-3	Directional Assembly (3 Headed Route Panel)	[Left Arrow] [Left Arrow] [Left Arrow] [Right Arrow] To North South 21 - 27 - 27	72X57									1	2	
11-18R	1354B+00	90E	Exit Ramp - Right	STH 27	MB4-1	Alternate	[Left Arrow] [Left Arrow] [Right Arrow] Alternate 90	24X12											11-19R
11-19R	1354B+00	90E	Exit Ramp - Right	STH 27	M1-1	Interstate Shield		24X24									1	1	
11-20R	1354B+00	90E	Exit Ramp - Right	STH 27	MB6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Left Arrow]	21X21											11-19R
11-21	1356E+00	90E	On Ramp - Right	STH 27	R5-57	Pedestrians Etc, Prohibited		36X36	9.00					1					
11-22R	1356E+00	90E	On Ramp - Right	STH 27	R5-57	Pedestrians Etc, Prohibited		36X36									1	1	
11-23	1357E+00	90E	On Ramp - Right	STH 27	R7-64	No Parking On Ramp		48X30	10.00					1					
11-24R	1357E+00	90E	On Ramp - Right	STH 27	R7-64	No Parking On Ramp		48X30									1	1	
11-25	1355B+00	90E	Island	STH 27	W12-1-D	Double Down Arrows		24X24			4.00	1							
11-26R	1355B+00	90E	Island	STH 27	W12-1-D	Double Down Arrows		24X24									1	1	
11-27	1355B+25	90E	Island	STH 27	R5-1	Do Not Enter		30X30	6.25				1						
11-28	1355B+25	90E	Exit Ramp - Right	STH 27	R1-1	Stop		36X36	7.46				1						
11-29R	1355B+25	90E	Exit Ramp - Right	STH 27	R1-1	Stop		36X36									1	1	
11-30R	1355B+25	90E	Island	STH 27	D9-2	Hospital		24X24									1	1	
11-31R	1355B+25	90E	Island	STH 27	MB6-1	Arrow - RIGHT, LEFT, OR AHEAD		21X21											11-30R
SHEET TOTALS									205.96	0.00	22.00	1	4	15	3	0	18	26	

PERMANENT SIGNING
SHEET 4 OF 13

PERMANENT SIGNING										637.2210		637.2215		637.2230		634.0612 634.0614 634.0616 634.0618 634.0620					638.2602		638.3000		SIGN			
SHEET 4 OF 13										SIGNS		TYPE II		SIGNS		TYPE II		POSTS WOOD 4X6 INCH					REMOVING		REMOVING		SIGN	
SIGN	APPROX.	ROUTE	POSITION	SITE ID	SIGN	SIGN DESCRIPTION		SIGN MESSAGE	SIGN	REFLECTIVE	REFLECTIVE H	REFLECTIVE F	12 FT	14 FT	16 FT	18 FT	20 FT	SIGNS	SMALL SIGN	SIGN	MOUNTED							
NUMBER	STATION				CODE				SIZE	TYPE II	FOLDING	TYPE II	EA	EA	EA	EA	EA	TYPE II	SUPPORTS	ON SAME	POST AS	REMARKS						
11-32R	1355B+25	90E	Island	STH 27	R5-1	Do Not Enter			36X36												11-30R							
11-33R	1355B+25	90E	Island	STH 27	R6-3	Divided Highway Crossing Sign and Intersection			30X24												11-34R							
11-34R	1355B+25	90E	Island	STH 27	R1-1	Stop			36X36									1	1									
11-35R	1355B+25	90E	Island	STH 27	R6-2-L	One Way Left Arrow			24X30												11-34R							
11-36	1355B+25	90E	Exit Ramp - Left	STH 27	R5-1	Do Not Enter			30X30	6.25				1														
11-37R	1355B+25	90E	Exit Ramp - Left	STH 27	R5-1	Do Not Enter			36X36									1	1									
11-38R	1355B+25	90E	Exit Ramp - Left	STH 27	R1-1	Stop			36X36									1	1									
11-39	1355B+25	90E	Exit Ramp - Left	STH 27	R1-1	Stop			36X36	7.46				1														
11-40	1355B+25	90E	Island	STH 27	R6-2-L	One Way Left Arrow			24X30	5.00											11-42	Mount on back of 11-42						
11-41	1355B+25	90E	Island	STH 27	R6-1R	One Way Right Arrow			36X12	3.00											11-42	Mount above 11-42						
11-42	1355B+25	90E	Island	STH 27	R1-1	Stop			36X36	7.46					1													
11-43	1355B+25	90E	Island	STH 27	R6-3	Divided Highway Crossing Sign and Intersection			30X24	5.00											11-42	Mount below 11-42						
11-44	1355B+25	90E	Right	STH 27	R3-1	No Right Turn Symbol			24X24	4.00				1														
12-00	1386+50	90E	Right		J4-1	Reassurance Assembly (1 Headed Route Panel)		East 90	36X54	13.50						1												
12-01R	1392+50	90E	Right		MB3-2	East - BLUE		East 90	30X15												12-02R							
12-02R	1392+50	90E	Right		M1-1	Interstate Shield		90	36X36									1	1									
12-04	1408+35	90E	Right		D10-2	Milepost Marker (2 Digit)		26	12X36	3.00				1														
12-05R	1408+35	90E	Right		D10-2	Milepost Marker (2 Digit)		26	12X36									1	1									
12-06R	1408A+30	90W	Left		D10-2	Milepost Marker (2 Digit)		26	12X36									1	1									
12-07	1408A+30	90W	Left		D10-2	Milepost Marker (2 Digit)		26	12X36	3.00				1														
14-07	1460+80	90E	Right		D10-2	Milepost Marker (2 Digit)		27	12X36	3.00				1														
14-08R	1460+80	90E	Right		D10-2	Milepost Marker (2 Digit)		27	12X36									1	1									
14-09R	1460A+50	90W	Left	STH 16	D10-2	Milepost Marker (2 Digit)		27	12X36									1	1									
14-10	1460A+50	90W	Left	STH 16	D10-2	Milepost Marker (2 Digit)		27	12X36	3.00				1														
15-00	1477+40	90E	Right	STH 71	M1-94	Crossroad Name		Hwy 71	60X21	8.75				2														
15-01R	1477+40	90E	Right	STH 71	M1-94	Crossroad Name		Hwy 71										1	1									
15-02R	1477A+90	90W	Left	STH 71	M1-94	Crossroad Name		Hwy 71										1	1									
15-03	1477A+90	90W	Left	STH 71	M1-94	Crossroad Name		Hwy 71	60X21	8.75				2														
15-05R	1488A+00	90W	Left	STH 16	MB3-4	West - BLUE		West 90	30X15									1	1		15-06R							
15-06R	1488A+00	90W	Left	STH 16	M1-1	Interstate Shield		90	36X36																			
15-09	1496A+50	90W	Left	STH 16	J4-1	Reassurance Assembly (1 Headed Route Panel)		West 90	36X54	13.50						1												
15-10R	1499+30	90E	Median	STH 16	R3-4	No U-Turn Symbol			36X36									1	1									
15-11R	1499+30	90E	Median	STH 16	R3-4A	Except Maintenance And Police Authorized Vehicles			36X12												15-10R							
15-12	1500+10	90E	Median	STH 16	R3-4B	No U Turn Sign combined with Maint. and Police Veh			36X48	12.00						1												
15-13R	1499+60	90W	Median	STH 16	R3-4B	No U Turn Sign combined with Maint. and Police Veh			36X48									1	1									
15-14	1499A+60	90W	Median	STH 16	R3-4B	No U Turn Sign combined with Maint. and Police Veh			36X48	12.00						1												
16-02	1513+55	90E	Right	STH 16	D10-2	Milepost Marker (2 Digit)		28	12X36	3.00				1														
16-03R	1513+55	90E	Right	STH 16	D10-2	Milepost Marker (2 Digit)		28	12X36									1	1									
16-04R	1513A+55	90W	Left	STH 16	D10-2	Milepost Marker (2 Digit)		28	12X36									1	1									
16-05	1513A+55	90W	Left	STH 16	D10-2	Milepost Marker (2 Digit)		28	12X36	3.00				1														
16-08R	1516A+50	90W	Left	STH 16	W4-1R	Merging Traffic Symbol (Right)			48X48									1	2									
16-09	1522A+50	90W	Left	STH 16	W4-1R	Merging Traffic Symbol (Right)			48X48			16.00				1	1											
16-10	1519+70	90E	Exit Ramp - Left	STH 16	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits		28	72X60	30.00							2											
16-11	1519+70	90E	Exit Ramp - Left	Exit 28	JV-F	Any FOLDING J-Panel		Alternate 90	36X54		13.50										16-10							
16-12R	1519+70	90E	Exit Ramp - Left	STH 16	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits		28	72X60									1	2									
16-13R	1519+70	90E	Exit Ramp - Left	Exit 28	JV-F	Any FOLDING J-Panel		Alternate 90	36X54												16-12R							
17-00	1537+50	90E	Right	STH 16	W4-1R	Merging Traffic Symbol (Right)			48X48			16.00				1	1											
17-01R	1542+25	90E	Right	STH 16	W4-1R	Merging Traffic Symbol (Right)			48X48									1	2									
17-06R	1558+25	90E	Right	STH 16	MB3-2	East - BLUE		East 90	30X15												17-07R							
17-07R	1558+25	90E	Right	STH 16	M1-1	Interstate Shield		90	36X36									1	1									
17-08R	1559+25	90E	Median	STH 16	R3-4B	No U Turn Sign combined with Maint. and Police Veh			36X48									1	1									
17-09R	1560A+00	90W	Median	STH 16	R3-4	No U-Turn Symbol			36X36									1	1									
17-10R	1560A+00	90W	Median	STH 16	R3-4A	Except Maintenance And Police Authorized Vehicles			36X18												17-09R							
17-11	1560A+25	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh			36X48	12.00						1												
17-12	1560+40	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh			36X48	12.00						1												
17-14	1563+50	90E	Right		J4-1	Reassurance Assembly (1 Headed Route Panel)		East 90	36X54	13.50							1											
17-15	1566+30	90E	Right	STH 16	D10-2	Milepost Marker (2 Digit)		29	12X36	3.00					1													
17-16R	1566+30	90E	Right	STH 16	D10-2	Milepost Marker (2 Digit)		29	12X36									1	1									
17-17R	1566A+60	90W	Left	STH 16	D10-2	Milepost Marker (2 Digit)		29	12X36									1	1									
SHEET TOTALS										195.17	13.50	32.00	0	14	7	7	0	23	26									

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 80

E

3

PERMANENT SIGNING
SHEET 5 OF 13

PERMANENT SIGNING										637.2210		637.2215		637.2230		634.0612 634.0614 634.0616 634.0618 634.0620					638.2602		638.3000		SIGN		
SIGN NUMBER	APPROX. STATION	ROUTE	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	SIGN MESSAGE	SIGN SIZE IN X IN	REFLECTIVE TYPE II H SF	REFLECTIVE H FOLDING SF	REFLECTIVE F TYPE II SF	POSTS WOOD 4X6 INCH					SIGN TYPE II EACH	SMALL SIGN SUPPORTS EACH	MOUNTED ON SAME POST AS	REMARKS							
												12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	20 FT EACH											
17-18	1566A+60	90W	Left	STH 16	D10-2	Milepost Marker (2 Digit)	29	12X36	3.00							1											
18-00R	1525H+30	90W	Island	STH 16	R5-1	Do Not Enter		36X36								1											
18-01	1525H+30	90W	Island	STH 16	R6-2-R	One Way Right Arrow		24X30	5.00																	18-07	
18-02	1525H+30	90W	Island	STH 16	R6-2-L	One Way Left Arrow		24X30	5.00																	18-07	
18-03R	1525H+30	90W	Island	STH 16	R6-2-R	One Way Right Arrow		24X30																		18-05R	
18-04R	1525H+30	90W	Island	STH 16	R6-2-L	One Way Left Arrow		24X30																		18-05R	
18-05R	1525H+30	90W	Island	STH 16	R1-1	Stop		36X36								1											
18-06R	1525H+30	90W	Exit Ramp - Right	STH 16	R1-1	Stop		36X36								1											
18-07	1525H+30	90W	Island	STH 16	R1-1	Stop		36X36	7.46																		
18-08	1525H+30	90W	Exit Ramp - Left	STH 16	R1-1	Stop		36X36	7.46							1											
18-09	1525H+30	90W	Exit Ramp - Right	STH 16	R5-1	Do Not Enter		30X30	6.25							1											
18-10	1525H+30	90W	Exit Ramp - Right	STH 16	R3-1	No Right Turn Symbol		24X24	4.00							1											
18-11	1525H+30	90W	Exit Ramp - Right	STH 16	R3-2	No Left Turn Symbol		24X24	4.00																	18-10	
18-12	1525H+30	90W	Exit Ramp - Right	STH 16	J3-1	Directional Assembly (1 Headed Route Panel)	West 90 [Left Arrow]	24X57	9.50									1									
18-13R	1525H+30	90W	Exit Ramp - Right	STH 16	J3-1	Directional Assembly (1 Headed Route Panel)	West 90 [Left Arrow]	24X57										1									
18-14R	1525H+30	90W	Exit Ramp - Right	STH 16	R3-1	No Right Turn Symbol		24X24																		18-13R	
18-15R	1525H+30	90W	Exit Ramp - Right	STH 16	R3-2	No Left Turn Symbol		24X24																		18-13R	
18-16R	1525H+30	90W	Exit Ramp - Right	STH 16	R5-1	Do Not Enter		36X36										1									
18-17	1525H+40	90W	Island	STH 16	W12-1-D	Double Down Arrows		24X24			4.00	1															
18-18R	1525H+30	90W	Exit Ramp - Left	STH 16	R1-1	Stop		36X36										1									
18-19	1525H+30	90W	Exit Ramp - Left	STH 16	R1-1	Stop		36X36	7.46																		
18-20R	1525H+30	90W	Exit Ramp - Left	STH 16	R5-1	Do Not Enter		36X36										1									
18-21	1525H+30	90W	Exit Ramp - Left	STH 16	R5-1	Do Not Enter		30X30	6.25							1											
18-22	1525H+30	90W	Island	STH 16	R5-1	Do Not Enter		30X30	6.25							1											
18-23R	1525H+30	90W	Island	STH 16	D9-2	Hospital		24X24																			
18-24R	1525H+30	90W	Island	STH 16	MB6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Right Arrow]	21X21																		18-23R	
18-25R	1526G+00	90W	On Ramp - Left	STH 16	R7-64	No Parking On Ramp		48X30										1									
18-26	1526G+00	90W	On Ramp - Left	STH 16	R7-64	No Parking On Ramp		48X30	10.00									1									
18-27R	1526G+50	90W	On Ramp - Left	STH 16	R5-57	Pedestrians Etc, Prohibited		36X36																			
18-28	1526G+50	90W	On Ramp - Left	STH 16	R5-57	Pedestrians Etc, Prohibited		36X36	9.00									1									
18-29R	1530H+72	90W	Exit Ramp - Left	STH 16	J3-3	Directional Assembly (3 Headed Route Panel)	East To West 16 - 21 - 16 [Left Arrow] [Right Arrow] [Right Arrow]	72X57										1								2	
18-30R	1530H+72	90W	Exit Ramp - Left	STH 16	MB4-1	Alternate	Alternate	24X12										1									
18-31R	1530H+72	90W	Exit Ramp - Left	STH 16	M1-1	Interstate Shield	90	24X24																			
18-32R	1530H+72	90W	Exit Ramp - Left	STH 16	MB6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Right Arrow]	21X21																		18-30R	
18-33	1528H+00	90W	Exit Ramp - Left	STH 16	R5-1A	Wrong Way		36X24	6.00							1											
18-34	1528H+00	90W	Exit Ramp - Right	STH 16	R5-1A	Wrong Way		36X24	6.00							1											
18-35R	1527H+90	90W	Exit Ramp - Left	STH 16	R5-1A	Wrong Way		36X24										1								1	
18-36R	1527H+90	90W	Exit Ramp - Right	STH 16	R5-1A	Wrong Way		36X24										1								1	
18-37	1528H+00	90W	Exit Ramp - Left	STH 16	J3-4	Directional Assembly (4 Headed Route Panel)	East West [Blank] Alternate 16 - 16 - Hospital - 90 [Left Arrow] [Right Arrow] [Right Arrow] [Right Arrow]	96X57	38.00									2									
18-38	1532H+30	90W	Exit Ramp - Left	STH 16	D1-2	Two Destinations (Arrows)	[Left Arrow] Fort McCoy Sparta [Right Arrow]	78X30	16.25							1	1										
18-39R	1532H+30	90W	Exit Ramp - Left	STH 16	D1-2	Two Destinations (Arrows)	[Left Arrow] Fort McCoy Sparta [Right Arrow]	102X36										1								2	
18-40R	1532H+85	90W	Exit Ramp - Left	STH 16	M3-2	EAST Cardinal Route Marker	East	24X12																		18-42R	
18-41R	1532H+85	90W	Exit Ramp - Left	STH 16	M3-4	WEST Cardinal Route Marker	West	24X12																		18-42R	
18-42R	1532H+85	90W	Exit Ramp - Left	STH 16	M50-2	Route Marker Panel - (2 Faces)	16-16	48X24										1									
18-43R	1532H+85	90W	Exit Ramp - Left	STH 16	M5-1R	Advance Arrow Right Turn	[Right Turn Arrow]	21X21																		18-42R	
18-44R	1532H+85	90W	Exit Ramp - Left	STH 16	M5-1L	Advance Arrow Left Turn	[Left Turn Arrow]	21X21																		18-42R	
18-45	1532H+00	90W	Exit Ramp - Left	STH 16	J2-2	Route Turn Assembly (2 Headed Route Panel)	East West 16 - 16 [Left Turn Arrow] [Right Turn Arrow]	48X57	19.00									2									
18-46	1534H+00	90W	Exit Ramp - Left	STH 16	W3-1	Stop Ahead		36X36			9.00							1									
18-47R	1535H+50	90W	Exit Ramp - Left	STH 16	W3-1	Stop Ahead		48X48										1									
18-48R	1536H+80	90W	Exit Ramp - Left	STH 16	R7-64	No Parking On Ramp		48X30										1									
18-49R	1538A+10	90W	Exit Gore	STH 16	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits	28	72X60										1									
18-50R	1538A+10	90W	Exit Gore	Exit 28	JV-F	Any FOLDING J-Panel	Alternate 90	36X54																		18-49R	
SHEET TOTALS									175.88	0.00	13.00	1	10	7	3	0	18	22									

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO:

81

E

SIGN NUMBER	APPROX. STATION	ROUTE	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	SIGN MESSAGE	SIZE IN X IN	REFLECTIVE H SF	FOLDING SF	REFLECTIVE F SF	12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	20 FT EACH	TYPE II EACH	SUPPORTS EACH	ON SAME POST AS	REMARKS
18-51	1538A+10	90W	Exit Gore	STH 16	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits	28	72X60	30.00						2					
18-52	1538A+10	90W	Exit Gore	Exit 28	JV-F	Any FOLDING J-Panel	Alternate 90	36X54		13.50										18-51
18-53	1538H+00	90W	Exit Ramp - Left	STH 16	R7-64	No Parking On Ramp		48X30	10.00					1						
19-00	1520F+00	90E	Exit Ramp - Right	STH 16	R7-64	No Parking On Ramp		48X30	10.00					1						
19-01R	1520F+00	90E	Exit Ramp - Right	STH 16	R7-64	No Parking On Ramp		48X30									1	1		
19-02R	1521F+50	90E	Exit Ramp - Right	STH 16	W3-1	Stop Ahead		48X48									1	2		
19-03R	1522F+50	90E	Exit Ramp - Right	STH 16	M3-2	EAST Cardinal Route Marker	East	24X12												19-05R
19-04R	1522F+50	90E	Exit Ramp - Right	STH 16	M3-4	WEST Cardinal Route Marker	West	24X12												19-05R
19-05R	1522F+50	90E	Exit Ramp - Right	STH 16	M50-2	Route Marker Panel - (2 Faces)	16 - 16	48X24									1	1		
19-06R	1522F+50	90E	Exit Ramp - Right	STH 16	M5-1R	Advance Arrow Right Turn	[Right Turn Arrow]	21X21												19-05R
19-07R	1522F+50	90E	Exit Ramp - Right	STH 16	M5-1L	Advance Arrow Left Turn	[Left Turn Arrow]	21X21												19-05R
19-08	1521F+50	90E	Exit Ramp - Right	STH 16	W3-1	Stop Ahead		36X36			9.00			1						
19-09	1526F+00	90E	Exit Ramp - Right	STH 16	J2-2	Route Turn Assembly (2 Headed Route Panel)	East West 16 - 16	48X57	19.00					1						
19-10	1528F+00	90E	Exit Ramp - Right	STH 16	D1-2	Two Destinations (Arrows)	[Left Turn Arrow] [Right Turn Arrow]	78X30	16.25				1	1						
19-11R	1528F+00	90E	Exit Ramp - Right	STH 16	D1-2	Two Destinations (Arrows)	[Left Arrow] Sparta Fort McCoy [Right Arrow]	78X30									1	2		
19-12	1530F+75	90E	Exit Ramp - Right	STH 16	J3-3	Directional Assembly (3 Headed Route Panel)	East West Alternate 16 - 16 - 90	72X57	28.50						2					
							[Left Arrow] [Right Arrow] [Right Arrow]													
19-13	1530F+75	90E	Exit Ramp - Right	STH 16	R5-1A	Wrong Way		36X24	6.00											19-12
19-14R	1530F+75	90E	Exit Ramp - Right	STH 16	M3-2	EAST Cardinal Route Marker	East	24X12												19-16R
19-15R	1530F+75	90E	Exit Ramp - Right	STH 16	M3-4	WEST Cardinal Route Marker	West	24X12												19-16R
19-16R	1530F+75	90E	Exit Ramp - Right	STH 16	M50-2	Route Marker Panel - (2 Faces)	16-16	48X24									1	1		
19-17R	1530F+75	90E	Exit Ramp - Right	STH 16	M6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Right Arrow]	21X21												19-16R
19-18R	1530F+75	90E	Exit Ramp - Right	STH 16	M6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Left Arrow]	21X21												19-16R
19-19R	1530F+75	90E	Exit Ramp - Right	STH 16	R5-1A	Wrong Way		36X24												19-16R
19-20	1530F+00	90E	Exit Ramp - Left	STH 16	R5-1A	Wrong Way		36X24	6.00				1							
19-21R	1530F+75	90E	Exit Ramp - Left	STH 16	R5-1A	Wrong Way		36X24									1	1		
19-22R	1532F+75	90E	Exit Ramp - Left	STH 16	J3-1	Directional Assemble (1 Headed Route Panel)	East 90	24x57									1	1		
							[Left Arrow]													
19-23R	1532F+75	90E	Exit Ramp - Left	STH 16	R3-1	No Right Turn Symbol		24X24												19-22R
19-24R	1532F+75	90E	Exit Ramp - Left	STH 16	R3-2	No Left Turn Symbol		24X24												19-22R
19-25	1532F+75	90E	Exit Ramp - Left	STH 16	R3-1	No Right Turn Symbol		24X24	4.00				1							19-27
19-26	1532F+75	90E	Exit Ramp - Left	STH 16	J3-1	Directional Assemble (1 Headed Route Panel)	East 90	24x57	9.50					1						
							[Left Arrow]													
19-27	1532F+75	90E	Exit Ramp - Left	STH 16	R3-2	No Left Turn Symbol		24X24	4.00											19-25
19-28	1534J+25	90E	On Ramp - Right	STH 16	R5-57	Pedestrians Etc, Prohibited		36X36	9.00					1						Mount on back of 19-25
19-29R	1534J+50	90E	On Ramp - Right	STH 16	R5-57	Pedestrians Etc, Prohibited		36X36									1	1		
19-30	1535J+25	90E	On Ramp - Right	STH 16	R7-64	No Parking On Ramp		48X30	10.00				1							
19-31R	1535J+50	90E	On Ramp - Right	STH 16	R7-64	No Parking On Ramp		48X30									1	1		
19-32	1532F+75	90E	Exit Ramp - Left	STH 16	R1-1	Stop		36X36	7.46				1							
19-33R	1532F+75	90E	Island	STH 16	R6-2-R	One Way Right Arrow		24X30												19-47R
19-34	1532F+75	90E	Exit Ramp - Right	STH 16	R5-1	Do Not Enter		30X30	6.25					1						
19-35	1532F+75	90E	Exit Ramp - Right	STH 16	R1-1	Stop		36X36	7.46					1						
19-36R	1532F+75	90E	Exit Ramp - Right	STH 16	MB4-1	Alternate	Alternate 90	24X12												19-36R
19-37R	1532F+75	90E	Exit Ramp - Right	STH 16	M1-1	Interstate Shield		24X24									1	1		
19-38R	1532F+75	90E	Exit Ramp - Right	STH 16	MB6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Right Arrow]	21X21												19-36R
19-39R	1532F+75	90E	Exit Ramp - Right	STH 16	R5-1	Do Not Enter		36X36												19-36R
19-40R	1532F+75	90E	Exit Ramp - Right	STH 16	R1-1	Stop		36X36									1	1		
19-41	1532F+75	90E	Island	STH 16	R6-2-R	One Way Right Arrow		24X30	5.00											19-45
19-42R	1532F+75	90E	Island	STH 16	R5-1	Do Not Enter		36X36									1	1		
19-43	1532F+75	90E	Island	STH 16	R5-1	Do Not Enter		30X30	6.25				1							
19-44	1532F+75	90E	Island	STH 16	R6-2-L	One Way Left Arrow		24X30	5.00											19-45
19-45	1532F+75	90E	Island	STH 16	R1-1	Stop		36X36	7.46				1							
19-46R	1532F+75	90E	Island	STH 16	R6-2-L	One Way Left Arrow		24X30												19-47R
19-47R	1532F+75	90E	Island	STH 16	R1-1	Stop		36X36									1	1		
19-48	1532F+75	90E	Exit Ramp - Left	STH 16	R5-1	Do Not Enter		30X30	6.25				1							
19-49R	1532F+75	90E	Exit Ramp - Left	STH 16	R5-1	Do Not Enter		36X36									1	1		
19-50R	1532F+75	90E	Exit Ramp - Left	STH 16	R1-1	Stop		36X36									1	1		
19-51R	1532F+65	90E	Island	STH 16	W12-1-D	Double Down Arrows		24X24									1	1		
19-52	1532F+65	90E	Island	STH 16	W12-1-D	Double Down Arrows		24X24			4.00	1								
SHEET TOTALS									213.38	13.50	13.00	1	8	9	4	0	16	18		

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 82

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PERMANENT SIGNING SHEET 7 OF 13										637.2210 SIGNS TYPE II REFLECTIVE H SF		637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF		637.2230 SIGNS TYPE II REFLECTIVE F SF		634.0612 634.0614 634.0616 634.0618 634.0620 POSTS WOOD 4X6 INCH					638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
SIGN NUMBER	APPROX. STATION	ROUTE	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	SIGN MESSAGE	SIGN SIZE IN X IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	20 FT EACH	SIGN TYPE II EACH	SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS	REMARKS				
20-03	1578+50	90E	Right		R8-7	Emergency Stopping Only		48X36	12.00					1										
20-06	1587+75	90E	Median		R4-3	Slower Traffic Keep Right		48X60	20.00						1									
20-11R	1595+80	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48										1	1					
21-00R	1601A+00	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48										1	1					
21-01	1601A+75	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1										
21-02	1607+75	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1										
21-05	1619+75	90E	Right		D10-2	Milepost Marker (2 Digit)	30	12X36	3.00				1					1	1					
21-06R	1619+75	90E	Right		D10-2	Milepost Marker (2 Digit)	30	12X36										1	1					
21-07R	1620A+00	90W	Left		D10-2	Milepost Marker (2 Digit)	30	12X36										1	1					
21-08	1620A+00	90W	Left		D10-2	Milepost Marker (2 Digit)	30	12X36	3.00				1											
21-09R	1621A+35	90W	Median		R4-3	Slower Traffic Keep Right		48X60										1	2					
22-00R	1673A+50	90W	Left		D10-2	Milepost Marker (2 Digit)	31	12X36										1	1					
22-01	1673A+50	90W	Left		D10-2	Milepost Marker (2 Digit)	31	12X36	3.00				1											
22-02	1673+30	90E	Right		D10-2	Milepost Marker (2 Digit)	31	12X36	3.00				1											
22-03R	1673+30	90E	Right		D10-2	Milepost Marker (2 Digit)	31	12X36										1	1					
22-04R	1687+10	90E	Median		R3-4	No U-Turn Symbol		36X36										1	1					
22-05R	1687+10	90E	Median		R3-4A	Except Maintenance And Police Authorized Vehicles		36X12													22-04R			
22-06	1687+75	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1										
22-07	1687A+25	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1										
22-08R	1687A+90	90W	Median		R3-4	No U-Turn Symbol		36X36										1	1					
22-09R	1687A+90	90W	Median		R3-4A	Except Maintenance And Police Authorized Vehicles		36X12													22-08R			
23-00	1726A+40	90W	Left		D10-2	Milepost Marker (2 Digit)	32	12X36	3.00				1											
23-01R	1726A+40	90W	Left		D10-2	Milepost Marker (2 Digit)	32	12X36										1	1					
23-02	1726+20	90E	Right		D10-2	Milepost Marker (2 Digit)	32	12X36	3.00				1											
23-03R	1726+20	90E	Right		D10-2	Milepost Marker (2 Digit)	32	12X36										1	1					
24-00	1779+50	90E	Right		D10-2	Milepost Marker (2 Digit)	33	12X36	3.00				1											
24-01R	1779+50	90E	Right		D10-2	Milepost Marker (2 Digit)	33	12X36										1	1					
24-02R	1780A+00	90W	Left		D10-2	Milepost Marker (2 Digit)	33	12X36										1	1					
24-03	1780A+00	90W	Left		D10-2	Milepost Marker (2 Digit)	33	12X36	3.00				1											
25-00	1815A+00	90W	Median		R4-3	Slower Traffic Keep Right		48X60	20.00															
26-00	1832+70	90E	Right		D10-2	Milepost Marker (2 Digit)	34	12X36	3.00				1			1								
26-01R	1832+70	90E	Right		D10-2	Milepost Marker (2 Digit)	34	12X36										1	1					
26-02R	1832A+85	90W	Left		D10-2	Milepost Marker (2 Digit)	34	12X36										1	1					
26-03	1832A+85	90W	Left		D10-2	Milepost Marker (2 Digit)	34	12X36	3.00				1											
27-00	1879A+60	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00						1									
27-01	1880+00	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00						1									
27-02R	1880+00	90E	Median		R3-4	No U-Turn Symbol		36X36										1	1					
27-03R	1880+00	90E	Median		R3-4A	Except Maintenance And Police Authorized Vehicles		36X12													27-02R			
27-04R	1880A+00	90W	Median		R3-4	No U-Turn Symbol		36X36													27-02R			
27-05R	1880A+00	90W	Median		R3-4A	Except Maintenance And Police Authorized Vehicles		36X12													27-04R			
27-06	1885+60	90E	Right		D10-2	Milepost Marker (2 Digit)	35	12X36	3.00				1											
27-07R	1885+60	90E	Right		D10-2	Milepost Marker (2 Digit)	35	12X36										1	1					
27-08R	1885A+85	90W	Left		D10-2	Milepost Marker (2 Digit)	35	12X36										1	1					
27-09	1885A+85	90W	Left		D10-2	Milepost Marker (2 Digit)	35	12X36	3.00				1											
28-00R	1939A+00	90W	Left		D10-2	Milepost Marker (2 Digit)	36	12X36										1	1					
28-01	1939A+00	90W	Left		D10-2	Milepost Marker (2 Digit)	36	12X36	3.00				1											
28-02	1938+80	90E	Right		D10-2	Milepost Marker (2 Digit)	36	12X36	3.00				1											
28-03R	1938+80	90E	Right		D10-2	Milepost Marker (2 Digit)	36	12X36										1	1					
29-00	1956A+20	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1										
29-01R	1956+70	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48										1	1					
29-02R	1956A+80	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48																

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PERMANENT SIGNING										SHEET 8 OF 13										
SIGN NUMBER	APPROX. STATION	ROUTE	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	SIGN MESSAGE	SIGN SIZE IN X IN	637.2210	637.2215	637.2230	634.0612 634.0614 634.0616 634.0618 634.0620					638.2602	638.3000	SIGN	REMARKS
									TYPE II REFLECTIVE H SF	FOLDING SF	TYPE II REFLECTIVE F SF	POSTS WOOD 4X6 INCH					SIGN TYPE II REMOVING EACH	SMALL SIGN SUPPORTS EACH	MOUNTED ON SAME POST AS	
												12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	20 FT EACH				
33-03R	2067+50	90E	Right		R4-3	Slower Traffic Keep Right		48X60									1	2		
33-04	2067+75	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00					1						
34-00R	2091A+80	90W	Left		R8-7	Emergency Stopping Only		48X36									1	1		
34-01R	2097A+40	90W	Left		D10-2	Milepost Marker (2 Digit)	39	12X36									1	1		
34-02	2097A+40	90W	Left		D10-2	Milepost Marker (2 Digit)	39	12X36	3.00					1						
34-03	2097+90	90E	Right		D10-2	Milepost Marker (2 Digit)	39	12X36	3.00					1						
34-04R	2097+90	90E	Right		D10-2	Milepost Marker (2 Digit)	39	12X36									1	1		
35-00	2136+50	90E	Right		M1-94	Crossroad Name	Hwy M	54X21	7.88					2						
35-01R	2136+50	90E	Right		M1-94	Crossroad Name	Hwy M	54X21									1	1		
35-02R	2136+50	90E	Right		W5-52R	Clearance Striper Down Left		18X54									1	1		
35-03R	2136+50	90E	Median		W5-52L	Clearance Striper Down Right		18X54									1	1		
35-04R	2137A+30	90W	Left		W5-52R	Clearance Striper Down Left		18X54									1	1		
35-05R	2137A+30	90W	Left		M1-94	Crossroad Name	Hwy M	54X21									1	1		
35-06	2137A+30	90W	Left		M1-94	Crossroad Name	Hwy M	54X21	7.88					1	1					
35-07R	2137A+30	90W	Median		W5-52L	Clearance Striper Down Right		18X54									1	1		
35-08R	2144A+50	90W	Left		W11-3	Deer Crossing Symbol		48X48									1	2		
35-09R	2144A+50	90W	Left		W57-51	Next Miles	10	48X24											35-08R	
36-00R	2151A+20	90W	Left		D10-2	Milepost Marker (2 Digit)	40	12X36									1	1		
36-01	2151A+20	90W	Left		D10-2	Milepost Marker (2 Digit)	40	12X36	3.00					1						
36-02	2151+60	90E	Right		D10-2	Milepost Marker (2 Digit)	40	12X36	3.00					1						
36-03R	2151+60	90E	Right		D10-2	Milepost Marker (2 Digit)	40	12X36									1	1		
37-01	2184A+00	90W	Left		R4-3	Slower Traffic Keep Right		48X60	20.00											
37-05	2194A+00	90W	Left		R8-7	Emergency Stopping Only		48X36	12.00						1		1			
37-06	2201A+25	90W	Left	STH 131	J4-1	Reassurance Assembly (1 Headed Route Panel)	West 90	36X54	13.50							1				
37-07R	2201A+25	90W	Left	STH 131	MB3-4	West - BLUE	West 90	30X15											37-08R	
37-08R	2201A+25	90W	Left	STH 131	M1-1	Interstate Shield	90	36X36									1	1		
37-09R	2201A+50	90W	Median	STH 131	R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48									1	1		
37-10	2201A+50	90W	Median	STH 131	R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00						1					
37-11R	2202+00	90E	Median	STH 131	R3-4	No U-Turn Symbol		36X36											37-09R	
37-12R	2202+00	90E	Median	STH 131	R3-4A	Except Maintenance And Police Authorized Vehicles		36X12											37-09R	
37-13	2202+00	90E	Median	STH 131	R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00						1					
37-14	2204+75	90E	Right	STH 131	D10-2	Milepost Marker (2 Digit)	41	12X36	3.00					1						
37-15R	2204+75	90E	Right	STH 131	D10-2	Milepost Marker (2 Digit)	41	12X36									1	1		
37-16R	2204A+10	90W	Left	STH 131	D10-2	Milepost Marker (2 Digit)	41	12X36									1	1		
37-17	2204A+10	90W	Left	STH 131	D10-2	Milepost Marker (2 Digit)	41	12X36	3.00					1						
38-04	2221+00	90E	Exit Gore	STH 131	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits	41	72X60	30.00						2					
38-05	2221+00	90E	Exit Gore	Exit 41	JV-F	Any FOLDING J-Panel	Alternate 90	36X54		13.50									38-04	
38-06R	2221+00	90E	Exit Gore	STH 131	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits	41	72X60									1	2		
38-07R	2221+00	90E	Exit Gore	Exit 41	JV-F	Any FOLDING J-Panel	Alternate 90	36X54											38-06R	
38-08R	2223A+00	90W	Left	STH 131	W4-1R	Merging Traffic Symbol (Right)		48X48									1	2		
38-09	2227A+50	90W	Left	STH 131	W4-1R	Merging Traffic Symbol (Right)		48X48			16.00			1	1					
38-10	2229+50	90E	Right	STH 131	W4-1R	Merging Traffic Symbol (Right)		48X48			16.00			1	1					
38-11R	2233+50	90E	Right	STH 131	W4-1R	Merging Traffic Symbol (Right)		48X48									1	2		
38-12R	2236A+00	90W	Exit Gore	Exit 41	JV-F	Any FOLDING J-Panel	Alternate 90	36X54											38-13R	
38-13R	2236A+00	90W	Exit Gore	STH 131	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits	41	72X60									1	2		
38-14	2236A+00	90W	Exit Gore	STH 131	E5-1A	Exit Number With No Letters (Arrow) 1-4 Digits	41	72X60	30.00						2					
38-15	2236A+00	90W	Exit Gore	Exit 41	JV-F	Any FOLDING J-Panel	Alternate 90	36X54		13.50									38-14	
39-00	2229M+50	90W	Exit Ramp - Right	STH 131	R5-1	Do Not Enter		30X30	6.25						1					
39-01	2229M+50	90W	Exit Ramp - Right	STH 131	R3-1	No Right Turn Symbol		24X24	4.00					1						
39-02R	2229M+50	90W	Exit Ramp - Right	STH 131	R3-1	No Right Turn Symbol		24X24											39-03R	
39-03R	2229M+50	90W	Exit Ramp - Right	STH 131	R5-1	Do Not Enter		36X36									1	1		
39-04R	2229M+50	90W	Exit Ramp - Right	STH 131	R1-1	Stop		36X36									1	1		
39-05	2229M+50	90W	Exit Ramp - Right	STH 131	R1-1	Stop		36X36	7.46					1						
39-06R	2229M+80	90W	Island	STH 131	W12-1-D	Double Down Arrows		24X24									1	1		
39-07	2229M+80	90W	Island	STH 131	W12-1-D	Double Down Arrows		24X24			4.00	1								
39-08	2229M+80	90W	Exit Ramp - Left	STH 131	R1-1	Stop		36X36	7.46						1					
39-09R	2229M+80	90W	Exit Ramp - Left	STH 131	MB4-1	Alternate	Alternate 90	24X12											39-10R	
39-10R	2229A+80	90W	Exit Ramp - Left	STH 132	M1-1	Interstate Shield	[Right Arrow]	24X24									1	1		
39-11R	2229M+80	90W	Exit Ramp - Left	STH 131	MB6-1	Arrow - RIGHT, LEFT, OR AHEAD		21X21											39-10R	
39-12	2229M+80	90W	Exit Ramp - Left	STH 131	R5-1	Do Not Enter		30X30	6.25					1						
39-13R	2229M+80	90W	Exit Ramp - Left	STH 131	R5-1	Do Not Enter		36X36									1	1		
SHEET TOTALS									206.68	27.00	36.00	1	12	9	8	1	26	32		

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PERMANENT SIGNING
SHEET 9 OF 13

PERMANENT SIGNING										637.2210 SIGNS TYPE II		637.2215 SIGNS TYPE II		637.2230 SIGNS TYPE II		634.0612 634.0614 634.0616 634.0618 634.0620					638.2602 REMOVING SIGNS		638.3000 REMOVING SMALL SIGN SUPPORTS		SIGN MOUNTED ON SAME POST AS		REMARKS
SIGN NUMBER	APPROX. STATION	ROUTE	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	SIGN MESSAGE	SIGN SIZE IN X IN	REFLECTIVE H SF	REFLECTIVE H FOLDING SF	REFLECTIVE F SF	POSTS WOOD 4X6 INCH					SIGNS TYPE II EACH	SMALL SIGN SUPPORTS EACH	ON SAME POST AS								
												12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	20 FT EACH											
39-14R	2229M+80	90W	Exit Ramp - Left	STH 131	R1-1	Stop		36X36										1	1								
39-15R	2229M+80	90W	Island	STH 131	R5-1	Do Not Enter		36X36										1	1								
39-16	2229M+80	90W	Island	STH 131	R5-1	Do Not Enter		30X30	6.25				1														
39-17	2229M+80	90W	Island	STH 131	R6-2-R	One Way Right Arrow		24X30	5.00															39-24			
39-18R	2229M+80	90W	Island	STH 131	R6-2-R	One Way Right Arrow		24X30																39-20R			
39-19R	2229M+80	90W	Island	STH 131	R6-2-L	One Way Left Arrow		24X30																39-20R			
39-20R	2229M+80	90W	Island	STH 131	R1-1	Stop		36X36										1	1								
39-21R	2229M+80	90W	Island	STH 131	R6-3	Divided Highway Crossing Sign and Intersection		30X24																39-20R			
39-22	2229M+80	90W	Island	STH 131	R6-2-L	One Way Left Arrow		24X30	5.00															39-24			
39-23	2229M+80	90W	Island	STH 131	R6-3	Divided Highway Crossing Sign and Intersection		30X24	5.00															39-24	Mount below 39-24		
39-24	2229M+80	90W	Island	STH 131	R1-1	Stop		36X36	7.46																		
39-25R	2227L+40	90W	On Ramp - Left	STH 131	R7-64	No Parking On Ramp		48X30										1	1								
39-26	2227L+40	90W	On Ramp - Left	STH 131	R7-64	No Parking On Ramp		48X30	10.00									1	1								
39-27R	2228L+00	90W	On Ramp - Left	STH 131	R5-57	Pedestrians Etc, Prohibited		36X36										1	1								
39-28	2228L+00	90W	On Ramp - Left	STH 131	R5-57	Pedestrians Etc, Prohibited		36X36	9.00																		
39-29R	2231M+00	90W	Exit Ramp - Right	STH 131	R5-1A	Wrong Way		36X24										1	1								
39-30R	2230M+75	90W	Exit Ramp - Left	STH 131	R5-1A	Wrong Way		36X24																39-33R			
39-31R	2231M+00	90W	Exit Ramp - Left	STH 131	M3-1	NORTH Cardinal Route Marker	North	24X12																39-33R			
39-32R	2231M+00	90W	Exit Ramp - Left	STH 131	M3-3	SOUTH Cardinal Route Marker	South	24X12																39-33R			
39-33R	2231M+00	90W	Exit Ramp - Left	STH 131	M50-2	Route Marker Panel - (2 Faces)	131 - 131	48X24										1	1								
39-34R	2231M+00	90W	Exit Ramp - Left	STH 131	M6-1	Arrow - RIGHT, LEFT, OR AHEAD		21X21																39-33R			
39-35R	2231M+00	90W	Exit Ramp - Left	STH 131	M6-1	Arrow - RIGHT, LEFT, OR AHEAD		21X21																39-33R			
39-36	2231M+50	90W	Exit Ramp - Left	STH 131	R5-1A	Wrong Way		36X24	6.00					1													
39-37	2231M+50	90W	Exit Ramp - Right	STH 131	R5-1A	Wrong Way		36X24	6.00					1													
39-38	2231M+50	90W	Exit Ramp - Left	STH 131	J3-3	Route Turn Assembly (3 Headed Route Panel)	South North Alternate 131 - 131 - 90 [Left Arrow] [Right Arrow] [Right Arrow]	72X57	28.50																		
39-39R	2232M+50	90W	Exit Ramp - Left	STH 131	D1-2	Two Destinations (Arrows)	[Left Arrow] Wilton Tomah [Right Arrow]	60X30										1	2								
39-40	2233M+00	90W	Exit Ramp - Left	STH 131	D1-3	Triple Destination/Arrow	[Left Arrow] State Patrol Hdqrs Amtrak Station [Right Arrow] VA Medical Center [Right Arrow]	114X42	33.25									1	1								
39-41R	2234M+00	90W	Exit Ramp - Left	STH 131	D1-3	Triple Destination/Arrow	[Left Arrow] State Patrol Hdqrs Amtrak Station [Right Arrow] VA Medical Center [Right Arrow]	114X42										1	2								
39-42	2234M+50	90W	Exit Ramp - Left	STH 131	D1-2	Two Destinations (Arrows)	[Left Arrow] Wilton Tomah [Right Arrow]	54X30	11.25					2													
39-43	2234M+80	90W	Exit Ramp - Right	STH 131	R7-64	No Parking On Ramp		48X30	10.00																		
39-44R	2235M+50	90W	Exit Ramp - Left	STH 131	R7-64	No Parking On Ramp		48X30										1	1								
39-45	2236M+00	90W	Exit Ramp - Left	STH 131	J2-2	Route Turn Assembly (2 Headed Route Panel)	South North 131 - 131 [Left Arrow] [Right Arrow]	48X57	19.00																		
39-46R	2237M+80	90W	Exit Ramp - Left	STH 131	W3-1	Stop Ahead		48X48										1	2								
39-47	2237M+80	90W	Exit Ramp - Left	STH 131	W3-1	Stop Ahead		36X36			9.00																
40-00R	2218K+50	90E	Exit Ramp - Right	STH 131	W3-1	Stop Ahead		48X48										1	2								
40-01	2218K+50	90E	Exit Ramp - Right	STH 131	W3-1	Stop Ahead		36X36			9.00							1									
40-02	2220K+50	90E	Exit Ramp - Right	STH 131	J3-2	Route Turn Assembly (3 Headed Route Panel)	North South 131 - 131 [Left Arrow] [Right Arrow]	48X57	19.00																		
40-03R	2218K+70	90E	Exit Ramp - Right	STH 131	R7-64	No Parking On Ramp		48X30										1	1								
40-04	2222K+00	90E	Exit Ramp - Left	STH 131	R7-64	No Parking On Ramp		48X30	10.00																		
40-05	2221K+35	90E	Exit Ramp - Right	STH 131	D1-2	Two Destinations (Arrows)	[Left Arrow] Tomah Wilton [Right Arrow]	54X30	11.25									2									
40-06R	2220K+29	90E	Exit Ramp - Right	STH 131	D1-3	Triple Destination/Arrow	[Left Arrow] Amtrak Station [Left Arrow] VA Medical Center State Patrol Hdqrs [Right Arrow]	120X42										1	2								
40-07	2220K+29	90E	Exit Ramp - Right	STH 131	D1-3	Triple Destination/Arrow	[Left Arrow] Amtrak Station [Left Arrow] VA Medical Center State Patrol Hdqrs [Right Arrow]	114X42	33.25									1	1								
40-08R	2221K+35	90E	Exit Ramp - Right	STH 131	D1-2	Two Destinations (Arrows)	[Left Arrow] Tomah Wilton [Right Arrow]	60X30										1	1								
40-09R	2222K+40	90E	Exit Ramp - Right	STH 131	M3-1	NORTH Cardinal Route Marker	North	24X12																40-11R			
40-10R	2222K+40	90E	Exit Ramp - Right	STH 131	M3-3	SOUTH Cardinal Route Marker	South	24X12																40-11R			
40-11R	2222K+40	90E	Exit Ramp - Right	STH 131	M50-2	Route Marker Panel - (2 Faces)	131 - 131	48X24										1	1								
40-12R	2222K+40	90E	Exit Ramp - Right	STH 131	M6-1	Arrow - RIGHT, LEFT, OR AHEAD		21X21																40-11R			
40-13R	2222K+40	90E	Exit Ramp - Right	STH 131	M6-1	Arrow - RIGHT, LEFT, OR AHEAD		21X21																40-11R			
40-14R	2224K+75	90E	Exit Ramp - Right	STH 131	R5-1A	Wrong Way		36X24																40-11R			
40-15	2224K+75	90E	Exit Ramp - Right	STH 131	J3-4	Directional Assembly (4 Headed Route Panel)	North [Blank] Alternate South 131 - Hospital - 90 - 131 [Left Arrow] [Left Arrow] - [Left Arrow] - [Right Arrow]	96X57	38.00																		
SHEET TOTALS									273.21	0.00	18.00	0	7	9	8	0	16	21									

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO:

85

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PERMANENT SIGNING
SHEET 10 OF 13

PERMANENT SIGNING										637.2210		637.2215		637.2230		634.0612 634.0614 634.0616 634.0618 634.0620					638.2602		638.3000		SIGN		
SIGN NUMBER	APPROX. STATION	ROUTE	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	SIGN MESSAGE	SIGN SIZE IN X IN	REFLECTIVE H SF	REFLECTIVE H FOLDING SF	REFLECTIVE F SF	POSTS WOOD 4X6 INCH					SIGNALS TYPE II EACH	SMALL SIGNALS SUPPORTS EACH	MOUNTED ON SAME POST AS	REMARKS							
												12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	20 FT EACH											
40-16	2224K+75	90E	Exit Ramp - Right	STH 131	R5-1A	Wrong Way		36X24	6.00								1										
40-17R	2224K+75	90E	Exit Ramp - Left	STH 131	R5-1A	Wrong Way		36X24																			
40-18	2224K+75	90E	Exit Ramp - Left	STH 131	R5-1A	Wrong Way		36X24	6.00								1				1						
40-19R	2225K+50	90E	Exit Ramp - Right	STH 131	D9-2	Hospital		24X24													1						
40-20R	2225K+50	90E	Exit Ramp - Right	STH 131	MB6-1	Arrow - RIGHT, LEFT, OR AHEAD		21X21																		40-19R	
40-21	2227N+80	90E	On Ramp - Right	STH 131	R5-57	Pedestrians Etc, Prohibited		36X36	9.00																		
40-22	2228N+80	90E	On Ramp - Right	STH 131	R7-64	No Parking On Ramp		48X30	10.00																		
40-23R	2229N+10	90E	On Ramp - Right	STH 131	R5-57	Pedestrians Etc, Prohibited		36X36													1						
40-24R	2230N+00	90E	On Ramp - Right	STH 131	R7-64	No Parking On Ramp		48X30													1						
40-25	2226K+70	90E	Island	STH 131	R5-1	Do Not Enter		30X30	6.25								1										
40-26R	2226K+70	90E	Exit Ramp - Right	STH 131	R5-1	Do Not Enter		36X36													1						
40-27	2226K+70	90E	Exit Ramp - Right	STH 131	R5-1	Do Not Enter		30X30	6.25								1										
40-28R	2226K+70	90E	Exit Ramp - Right	STH 131	R1-1	Stop		36X36													1						
40-29	2226K+70	90E	Exit Ramp - Right	STH 131	R1-1	Stop		36X36	7.46																		
40-30R	2226K+70	90E	Island	STH 131	MB4-1	Alternate	Alternate	24X12																		40-33R	
40-31R	2226K+70	90E	Island	STH 131	M1-1	Interstate Shield	90	24X24																		40-33R	
40-32R	2226K+70	90E	Island	STH 131	MB6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Left Arrow]	21X21																		40-33R	
40-33R	2226K+70	90E	Island	STH 131	R5-1	Do Not Enter		36X36													1						
40-34R	2226K+70	90E	Island	STH 131	R6-2-L	One Way Left Arrow		24X30																		40-36R	
40-35R	2226K+70	90E	Island	STH 131	R6-3	Divided Highway Crossing Sign and Intersection		30X24																		40-36R	
40-36R	2226K+70	90E	Island	STH 131	R1-1	Stop		36X36													1						
40-37	2226K+70	90E	Exit Ramp - Left	STH 131	R5-1	Do Not Enter		30X30	6.25								1										
40-38	2226K+70	90E	Exit Ramp - Left	STH 131	R3-1	No Right Turn Symbol		24X24	4.00								1									40-37	
40-39R	2226K+70	90E	Exit Ramp - Left	STH 131	R5-1	Do Not Enter		36X36													1						
40-40R	2226K+70	90E	Exit Ramp - Left	STH 131	R3-1	No Right Turn Symbol		24X24																		40-39R	
40-41R	2226K+70	90E	Exit Ramp - Left	STH 131	R1-1	Stop		36X36													1						
40-42	2226K+70	90E	Exit Ramp - Left	STH 131	R1-1	Stop		36X36	7.46																		
40-43	2226K+70	90E	Island	STH 131	R6-2-L	One Way Left Arrow		24X30	5.00																	40-44	
40-44	2226K+70	90E	Island	STH 131	R1-1	Stop		36X36	7.46																		
40-45	2226K+70	90E	Island	STH 131	R6-3	Divided Highway Crossing Sign and Intersection		30X24	5.00																	40-44	Mount below 40-44
40-46	2226K+50	90E	Island	STH 131	W12-1-D	Double Down Arrows		24X24				4.00	1														
40-47R	2226K+50	90E	Island	STH 131	W12-1-D	Double Down Arrows		24X24																			
41-04	2248A+50	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00												1						
41-05	2249+75	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00																		
41-06R	2251+25	90E	Median	STH 131	R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48													1						
41-07R	2249A+70	90W	Median	STH 131	R3-4	No U-Turn Symbol		36X36																		41-06R	
41-08R	2249A+70	90W	Median	STH 131	R3-4A	Except Maintenance And Police Authorized Vehicles		36X12																		41-06R	
41-09	2256+00	90E	Right		J4-1	Reassurance Assembly (1 Headed Route Panel)	East 90	36X54	13.50																		
41-10	2257+50	90E	Right	STH 131	D10-2	Milepost Marker (2 Digit)	42	12X36	3.00								1										
41-11R	2257+50	90E	Right	STH 131	D10-2	Milepost Marker (2 Digit)	42	12X36													1						
41-12R	2256A+70	90W	Left	STH 131	D10-2	Milepost Marker (2 Digit)	42	12X36													1						
41-13	2256A+70	90W	Left	STH 131	D10-2	Milepost Marker (2 Digit)	42	12X36	3.00								1										
42-09R	2302+25	90E	Median	USH 12	R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48													1						
42-10R	2301A+45	90W	Median		R3-4	No U-Turn Symbol		36X36																		42-09R	
42-11R	2301A+45	90W	Median		R3-4A	Except Maintenance And Police Authorized Vehicles		36X12																		42-09R	
42-12	2301A+25	90W	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00																		
42-13	2302A+00	90W	Left		J4-1	Reassurance Assembly (1 Headed Route Panel)	West 90	36X54	13.50																		
42-14	2302+75	90E	Median		R3-4B	No U Turn Sign combined with Maint. and Police Veh		36X48	12.00																		
43-00R	2306A+50	90W	Left	STH 12	D12-5	Travel Info Call 511	511	60X66													1					2	
43-01R	2309A+30	90W	Left	STH 131	D10-2	Milepost Marker (2 Digit)	43	12X36													1						
43-02	2309A+30	90W	Left	STH 131	D10-2	Milepost Marker (2 Digit)	43	12X36	3.00								1										
43-03	2310+10	90E	Right	USH 12	D10-2	Milepost Marker (2 Digit)	43	12X36	3.00								1										
43-04R	2310+10	90E	Right	USH 12	D10-2	Milepost Marker (2 Digit)	43	12X36													1					1	
43-09R	2320A+00	90W	Left	USH 12	W4-1R	Merging Traffic Symbol (Right)		48X48													1					2	
43-10	2325A+25	90W	Left	USH 12	W4-1R	Merging Traffic Symbol (Right)		48X48				16.00															
43-11R	2321Q+50	90W	On Ramp - Right	USH 12	R7-64	No Parking On Ramp		48X30													1						
43-12	2321Q+50	90W	On Ramp - Right	USH 12	R7-64	No Parking On Ramp		48X30	10.00																		
43-13R	2322Q+50	90W	On Ramp - Right	USH 12	R5-57	Pedestrians Etc, Prohibited		36X36													1						
43-14	2322Q+50	90W	On Ramp - Right	USH 12	R5-57	Pedestrians Etc, Prohibited		36X36	9.00																		
43-15	2323Q+40	90W	On Ramp - Right	USH 12	R1-2	Yield		36X31	3.88																		

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 86

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PERMANENT SIGNING
SHEET 11 OF 13

PERMANENT SIGNING										635.0200	635.0300	636.0100	636.0500	637.1220	638.2601	638.3100			
SHEET 11 OF 13										SIGN	SIGN	SUPPORTS	SUPPORTS	SIGN	SIGN	SIGN	SIGN	SIGN	SIGN
SIGN	STATION	ROUTE	POSITION	SITE ID	SIGN	DESCRIPTION	SIGN	SIGN	SIGN	SUPPORT	STEEL	CONNECTION	CONCRETE	STEEL	REFLECTIVE	SIGN	STEEL	SIGN	
NUMBER					CODE		MESSAGE	INCHES	X INCHES	NUMBER	HS	BOLTS	MASONRY	REINFORCEMENT	SH	TYPE I	TYPE I	SIGN	
										& TYPE	LB	EACH	CY	LB	SF	EACH	EACH	MOUNTED	
																		ON SAME	
																		POST AS	
																		REMARKS	
4-04	1215A+80	90W	Left		E5-52	Rest Area Arrow (On side) Taper		144X54		2, A	453.2		1.2	68	54.00				
4-05R	1216A+80	90W	Left		E5-52	Rest Area Arrow (On side) Taper		120X54											
5-04	1260A+25	90W	Left		E5-51	Rest Area __ Mile	1	144X60		2, A	562.4		1.2	68	60.00	1	2		
5-05	1260A+25	90W	Left		E5-62	Next Rest Area [00] Miles	21	120X30							25.00			5-04	
6-00R	1268A+00	90W	Left		E5-51	Rest Area __ Miles	1	144X60								1	2	Use 6 Foot Mounting Height	
6-01R	1268A+00	90W	Left		E5-62	Next Rest Area [00] Miles	21	120X30										Remove Bases	
6-03	1285+20	90E	Right		E1-5P	Exit Number for E1-1 & E4-1	25	108X30							22.50			6-04	
6-04	1285+20	90E	Right		E1-1A	Advance Exit Guide Sign, __ Mile	27	156X162				2			175.50				
							Sparta												
							Melvina												
							1 MILE												
6-05R	1285+20	90E	Right		E1-5P	Exit Number for E1-1 & E4-1	25	108X30										6-06R	
6-06R	1285+20	90E	Right		E1-1A	Advance Exit Guide Sign, __ Mile	27	156X162								1			
							Sparta												
							Melvina												
							1 MILE												
7-02	1302+50	90E	Right	STH 27	E10-61	Hospital Exit [000]	Hospital	144X54				2			54.00				
							Exit 25												
7-03R	1302+50	90E	Right	STH 27	E10-61	Hospital Exit [000]	Hospital	144X54								1			
							Exit 25												
7-12R	1310A+80	90W	Left		D2-3	Destination/Distance (Three) with Die Cut Letters	Bangor 9	192X84								1			
							West Salem 12												
							La Crosse 25												
7-13	1310A+80	90W	Left		D2-3	Destination/Distance (Three) with Die Cut Letters	Bangor 9	192X84				2			112.00				
							La Crosse 25												
							Albert Lea 141												
8-01	1330+55	90E	Right	STH 27	E3-1	Destination - Next Right - Exit Number	Elroy - Sparta	192X108		2, B	933.0		1.6	98	144.00			85 Feet West Of Existing Sign	
							La Crosse River												
							State Trails												
							Exit 25												
8-02R	1331+40	90E	Right	STH 27	E3-1	Destination - Next Right - Exit Number	Elroy - Sparta	192X108								1	2	Remove Bases	
							La Crosse River												
							State Trails												
							Exit 25												
8-04R	1336+30	90E	Right	STH 27	E1-5P	Exit Number for E1-1 & E4-1	25	108X36										8-05R	
8-05R	1336+30	90E	Right	STH 27	E4-1A	Exit Direction Sign with Arrow	27	192X132								1	2	Remove Bases	
							Sparta [TR]												
							Melvina												
8-06	1339+50	90E	Right	STH 27	E1-5P	Exit Number for E1-1 & E4-1	25	108X36						98	22.50			8-07	
8-07	1339+50	90E	Right	STH 27	E4-1A	Exit Direction Sign with Arrow	27	192X132		2, B	987.4		1.6	98	176.00			320 Feet East Of Existing Sign	
							Sparta [TR]												
							Melvina												
9-10	1375A+80	90W	Left	STH 27	E1-5P	Exit Number for E1-1 & E4-1	25	108X30						98	22.50			9-11	
9-11	1375A+80	90W	Left	STH 27	E4-1A	Exit Direction Sign with Arrow	27	192X132		2, B	981.0		1.6	98	176.00			270 Feet West Of Existing Sign	
							Sparta [TR]												
							Melvina												
9-12R	1378A+50	90W	Left	STH 27	E1-5P	Exit Number for E1-1 & E4-1	25	108X30										9-13R	
9-13R	1378A+50	90W	Left	STH 27	E4-1A	Exit Direction Sign with Arrow	27	192X132								1	2	Remove Bases	
							Sparta [TR]												
							Melvina												
12-08R	1410A+70	90W	Left		E3-1	Destination - Next Right - Exit Number	Rockland	120X60								1			
							Exit 25												
12-09	1410A+70	90W	Left		E3-1	Destination - Next Right - Exit Number	Rockland	144X60				2			60.00				
							Exit 25												
13-01	1440A+30	90W	Left		E1-5P	Exit Number for E1-1 & E4-1	25	108X30							22.50			13-02	
13-02	1440A+30	90W	Left		E1-1A	Advance Exit Guide Sign, __ Mile	27	156X162				2			175.50				
							Sparta												
							Melvina												
							1 1/4 MILES												
13-03	1440A+30	90W	Left		E2-1	Next Exit __ Miles, (Message in one line)	11	156X24							26.00			13-02	
13-04R	1440A+30	90W	Left		E1-5P	Exit Number for E1-1 & E4-1	25	108X30										13-05R	
13-05R	1440A+30	90W	Left		E1-1A	Advance Exit Guide Sign, __ Mile	27	156X162								1			
							Sparta												
							Melvina												
SHEET TOTALS											3917.0	10	7.2	430	1328.00	10	10		

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 87

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PERMANENT SIGNING
SHEET 12 OF 13

PERMANENT SIGNING										635.0200 SIGN SUPPORTS		635.0300 SIGN SUPPORTS		636.0100 SIGN SUPPORTS	636.0500 SIGN SUPPORTS	637.1220 SIGNS TYPE I	638.2601 REMOVING SIGNS TYPE I	638.3100 REMOVING STEEL SIGN SUPPORTS	SIGN MOUNTED ON SAME	REMARKS
SIGN NUMBER	STATION	ROUTE	POSITION	SITE ID	SIGN CODE	DESCRIPTION	SIGN MESSAGE	SIGN SIZE INCHES X INCHES	SIGN SUPPORT NUMBER & TYPE	STEEL STRUCTURAL HS LB	CONNECTION BASE BOLTS EACH	CONCRETE MASONRY CY	STEEL REINFORCEMENT LB	REFLECTIVE SH SF	EACH	EACH	POST AS			
13-06R	1440A+30	90W	Left	STH 27	E2-1	Next Exit _ Miles, (Message in one line)	11	156X24										13-05R		
14-01R	1459+25	90E	Right	STH 16	E1-5P	Exit Number for E1-1 & E4-1	28	108X30										14-02R		
14-02R	1459+25	90E	Right	STH 16	E1-1A	Advance Exit Guide Sign, __ Mile	16	144X126							1					
							Sparta 1 Mile													
14-03R	1459+25	90E	Right	STH 16	E2-1	Next Exit _ Miles, (Message in one line)	14	156X24										14-02R		
14-04	1466+00	90E	Right	STH 16	E1-5P	Exit Number for E1-1 & E4-1	28	108X30						22.50				14-09		
14-05	1466+00	90E	Right	STH 16	E1-1A	Advance Exit Guide Sign, __ Mile	16	144X126			2			126.00						
							Sparta 1 Mile													
14-06	1466+00	90E	Right	STH 16	E2-1	Next Exit _ Miles, (Message in one line)	14	156X24						26.00				14-09		
15-07	1488+20	90E	Right	STH 16	E3-1	Destination - Next Right - Exit Number	Fort McCoy Exit 28	156X60			2			65.00						
15-08R	1488+20	90E	Right	STH 16	E3-1	Destination - Next Right - Exit Number	Fort McCoy Exit 28	156X60							1					
16-00R	1507+75	90E	Right	STH 16	E1-5P	Exit Number for E1-1 & E4-1	28	108X30										16-01R		
16-01R	1507+75	90E	Right	STH 16	E4-1A	Exit Direction Sign with Arrow	16 [TR] Sparta	180X96							1	2		Remove Bases		
16-06	1511+15	90E	Right	STH 16	E1-5P	Exit Number for E1-1 & E4-1	28	108X30						22.50				16-07		
16-07	1511+15	90E	Right	STH 16	E4-1A	Exit Direction Sign with Arrow	16 [TR] Sparta	180X96	2, B	849.8		1.6	98	120.00				340 Feet East Of Existing Sign		
17-02	1545A+25	90W	Left	STH 16	E1-5P	Exit Number for E1-1 & E4-1	28	108X30						22.50				17-03		
17-03	1545A+25	90W	Left	STH 16	E4-1A	Exit Direction Sign with Arrow	16 [TR] Sparta	180X96	2, B	864.2		1.6	98	120.00				275 Feet West Of Existing Sign		
17-04R	1548A+00	90W	Left	STH 16	E1-5P	Exit Number for E1-1 & E4-1	28	108X30										17-05R		
17-05R	1548A+00	90W	Left	STH 16	E4-1A	Exit Direction Sign with Arrow	16 [TR] Sparta	180X96							1	2		Remove Bases		
20-01	1575A+10	90W	Left		E10-61	Hospital Exit [000]	28	144x54	2, A	472.4		1.2	68	54.00				140 Feet West Of Existing Sign		
20-02R	1576A+50	90W	Left		E10-61	Hospital Exit [000]	28	144x54							1	2		Remove Bases		
20-04	1583A+00	90W	Left	STH 16	E3-1	Destination - Next Right - Exit Number	Fort McCoy Exit 28	156X60						65.00						
20-05	1582+50	90E	Right		D2-2	Destination/Distance (Two) with Die Cut Letters	Tomah 13 Madison 111	168X60	2, A	522.8		1.2	68	70.00						
20-07R	1590A+00	90W	Left	STH 16	E3-1	Destination - Next Right - Exit Number	Fort McCoy Exit 28	156X60							1	2		Remove Bases		
20-08	1591A+80	90W	Left	STH 16	E1-5P	Exit Number for E1-1 & E4-1	28	108X30						22.50				20-09		
20-09	1591A+80	90W	Left	STH 16	E1-1A	Advance Exit Guide Sign, __ Mile	16 Sparta 1 Mile	144X126	2, B	973.0		1.6	98	126.00				1720 Feet West Of Existing Sign		
20-10R	1593+50	90E	Right		D2-3	Destination/Distance (Three)	Tomah 13 Mauston 41 Madison 111	168X84							1	2		Remove Bases		
21-03R	1609A+00	90W	Left	STH 16	E1-5P	Exit Number for E1-1 & E4-1	28	108X30										21-04R		
21-04R	1609A+00	90W	Left	STH 16	E1-1A	Advance Exit Guide Sign, __ Mile	16 Sparta 1 Mile	144X126							1	2		Remove Bases		
36-04	2160+25	90E	Right	STH 131	E1-5P	Exit Number for E1-1 & E4-1	41	108X30						22.50				36-05		
36-05	2160+25	90E	Right	STH 131	E1-1A	Advance Exit Guide Sign, __ Mile	131 Tomah Wilton 1 Mile	144x162			2			162.00						
36-06R	2160+25	90E	Right	STH 131	E1-5P	Exit Number for E1-1 & E4-1	41	108X30										36-07R		
36-07R	2160+25	90E	Right	STH 131	E1-1A	Advance Exit Guide Sign, __ Mile	131 Tomah Wilton 1 Mile	144X162							1					
36-08	2169+80	90E	Right	STH 131	E3-1	Destination - Next Right - Exit Number	VA Medical Center State Patrol Hdqrs Exit 41	228X102			2			161.50						
36-09R	2169+80	90E	Right	STH 131	E3-1	Destination - Next Right - Exit Number	VA Medical Center State Patrol Hdqrs Exit 41	228X84							1					
SHEET TOTALS										3682.2	8.00	7.2	430	1208.00	10	12				

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HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 88

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PERMANENT SIGNING
SHEET 13 OF 13

										635.0200 SIGN SUPPORTS	635.0300 SIGN SUPPORTS REPLACING BASE	636.0100 SIGN SUPPORTS CONCRETE MASONRY	636.0500 SIGN SUPPORTS STEEL REINFORCEMENT	637.1220 SIGN TYPE I REFLECTIVE SH	638.2601 SIGN REMOVING TYPE I EACH	638.3100 SIGN REMOVING STEEL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
SIGN NUMBER	STATION	ROUTE	POSITION	SITE ID	SIGN CODE	DESCRIPTION	SIGN MESSAGE	SIGN SIZE INCHES X INCHES	SIGN SUPPORT NUMBER & TYPE	STEEL HS LB	BOLTS EACH	CY	LB	SF	EACH	EACH		
36-10R	2172A+50	90W	Left		D2-3	Destination/Distance (Three) With Die Cut Letters	Sparta 15 Bangor 25 La Crosse 42	180X84							1			
36-11	2172A+50	90W	Left		D2-3	Destination/Distance (Three) With Die Cut Letters	Sparta 15 La Crosse 42 Albert Lea 158	204X84			2			121.83				
36-12	2180+80	90E	Right	STH 131	E10-61	Hospital Exit [000]	41	144X54			2			54.00				
36-13R	2180+80	90E	Right	STH 131	E10-61	Hospital Exit [000]	41	144X54							1			
37-03	2189+60	90E	Right	STH 131	E3-1	Destination - Next Right - Exit Number	Amtrak Station Exit 41	192X60			2			80.00				
37-04R	2189+60	90E	Right	STH 131	E3-1	Destination - Next Right - Exit Number	Amtrak Station Exit 41	192X60							1			
38-00	2214+00	90E	Right		E1-5P	Exit Number for E1-1 & E4-1	41	108X30						22.50			38-01	
38-01	2214+00	90E	Right		E4-1A	Exit Direction Sign with Arrow	131 [TR] Tomah Wilton	180X132	2, B	1021.0		1.6	98	165.00				57 Feet West Of Existing Sign
38-02R	2214+60	90E	Right	STH 131	E1-5P	Exit Number for E1-1 & E4-1	41	108X30									38-03R	
38-03R	2214+60	90E	Right	STH 131	E4-1A	Exit Direction Sign with Arrow	131 [TR] Tomah Wilton	180X132							1	2		Remove Bases
41-00R	2242A+75	90W	Left	STH 131	E1-5P	Exit Number for E1-1 & E4-1	41	108X30									41-01R	
41-01R	2242A+75	90W	Left	STH 131	E4-1A	Exit Direction Sign with Arrow	131 Tomah [TR] Wilton	180X132							1			
41-02	2242A+75	90W	Left	STH 131	E1-5P	Exit Number for E1-1 & E4-1	41	108X30						22.50			41-03	
41-03	2242A+75	90W	Left	STH 131	E4-1A	Exit Direction Sign with Arrow	131 Tomah [TR] Wilton	180X132			2			165.00				
41-14	2290+00	90E	Right		E1-5P	Exit Number for E1-1 & E4-1	43	108X30						22.50			41-15	
41-15	2262+60	90E	Right	USH 12	E1-1A	Advance Exit Guide Sign, __ Mile	12-16 Tomah 1 Mile	144X126			2			126.00				
41-16R	2262+60	90E	Right	USH 12	E1-5P	Exit Number for E1-1 & E4-1	43	108X30									41-17R	
41-17R	2262+60	90E	Right	USH 12	E1-1A	Advance Exit Guide Sign, __ Mile	12-16 Tomah 1 Mile	144X126							1			
42-00R	2282A+75	90W	Left	STH 131	E3-1	Destination - Next Right - Exit Number	VA Medical Center State Patrol Hdqrs Exit 41	228X84							1			
42-01	2290+00	90E	Right		E1-1A	Destination - Next Right - Exit Number	VA Medical Center State Patrol Hdqrs Exit 41	228X102			2			161.50				
42-03	2296A+00	90W	Left	STH 131	E1-5P	Exit Number for E1-1 & E4-1	41	108X30						22.50			42-03	
42-04	2296A+00	90W	Left	STH 131	E1-1A	Advance Exit Guide Sign, __ Mile	131 Tomah Wilton 1 Mile	144X162			2			162.00				
42-05	2296A+00	90W	Left	STH 131	E2-1	Next Exit __ Miles, (Message in one line)	14	156X24						26.00			42-03	
42-06R	2296A+00	90W	Left	STH 131	E1-5P	Exit Number for E1-1 & E4-1	41	108X30									42-07R	
42-07R	2296A+00	90W	Left	STH 131	E1-1A	Advance Exit Guide Sign, __ Mile	131 Tomah Wilton 1 Mile	144X162							1			
42-08R	2296A+00	90W	Left	STH 131	E2-1	Next Exit __ Miles, (Message in one line)	14	84X36									42-07R	
43-05	2316+60	90E	Right	USH 12	E1-5P	Exit Number for E1-1 & E4-1	43	108X30						22.50			43-06	
43-06	2316+60	90E	Right	USH 12	E4-1A	Exit Direction Sign with Arrow	12 - 16 [TR] Tomah [TR]	180X96			2			120.00				
43-07R	2316+60	90E	Right	USH 12	E1-5P	Exit Number for E1-1 & E4-1	43	108X30									43-08R	
43-08R	2316+60	90E	Right	USH 12	E4-1A	Exit Direction Sign with Arrow	12 - 16 [TR] Tomah [TR]	180X96							1			
SHEET TOTALS										1021.0	16	1.6	98	1293.83	9	2		
PROJECT TOTALS										8620.2	34	16.0	958	3829.83	29	24		

STATE PROJECT NO: 1071-02-60

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO: 89

E

SAWING							
				690.0150	690.0250		
				SAWING	SAWING		
				ASPHALT	CONCRETE		
STAGE	STATION	TO	STATION	LF	LF	EXISTING PAVEMENT TYPE	COMMENTS
STAGE 1							
EASTBOUND MAINLINE:							
	1132+88	-	1132+94	-	36	12" PCC	REST AREA #15 ON RAMP
	1136+77	-	1136+79	-	12	12" PCC	REST AREA #15 ON RAMP
	1141+32	-	1141+38	-	36	12" PCC	OUTSIDE LANE
	1153+99	-	1154+05	-	26	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1156+16	-	1156+22	-	26	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1176+00	-	1176+06	-	26	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1178+83	-	1178+91	-	38	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1179+56	-	1179+62	-	26	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1180+06	-	1180+12	-	26	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1180+45	-	1180+51	-	26	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1188+82	-	1188+88	-	26	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1191+57	-	1191+63	-	26	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1204+31	-	1204+51	-	60	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1204+81	-	1205+01	-	60	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1206+17	-	1206+57	-	110	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1206+86	-	1206+95	-	39	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1209+71	-	1209+77	-	36	12" PCC	OUTSIDE LANE
	1210+35	-	1210+44	-	39	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1212+82	-	1212+91	-	39	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1213+40	-	1213+58	-	58	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1214+33	-	1214+38	-	25	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1215+32	-	1215+41	-	39	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1215+87	-	1216+55	-	178	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1217+96	-	1218+10	-	44	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1219+79	-	1219+88	-	39	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1220+16	-	1220+21	-	25	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1221+82	-	1222+07	-	75	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1222+03	-	1222+58	-	145	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1223+32	-	1223+42	-	40	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1225+67	-	1225+76	-	39	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1226+97	-	1227+06	-	39	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1229+69	-	1229+73	-	25	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1230+59	-	1230+68	-	39	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1232+58	-	1232+62	-	25	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1233+27	-	1233+36	-	39	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1254+99	-	1255+05	-	36	12" PCC	OUTSIDE LANE
	1255+52	-	1255+56	-	25	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1255+48	-	1255+75	-	77	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1283+52	-	1283+58	-	34	12" PCC	OUTSIDE LANE
	1283+74	-	1283+80	-	34	12" PCC	OUTSIDE LANE
	1284+29	-	1284+35	-	34	12" PCC	OUTSIDE LANE
	1285+35	-	1285+45	-	52	12" PCC	OUTSIDE LANE
	1293+11	-	1293+17	-	34	12" PCC	OUTSIDE LANE
	1298+39	-	1298+45	-	34	12" PCC	OUTSIDE LANE
	1300+33	-	1300+39	-	34	12" PCC	OUTSIDE LANE
	1307+15	-	1307+21	-	34	12" PCC	OUTSIDE LANE
	1311+42	-	1311+48	-	34	12" PCC	OUTSIDE LANE
	1311+61	-	1311+67	-	26	7" PCC	OUTSIDE SHOULDER
	1311+79	-	1311+85	-	26	7" PCC	OUTSIDE SHOULDER
	1322+30	-	1323+02	-	192	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER

SAWING CONTINUED						
STAGE	STATION	TO	STATION	690.0150	690.0250	COMMENTS
				SAWING ASPHALT LF	SAWING CONCRETE LF	
				EXISTING PAVEMENT		
				TYPE		
STAGE 1						
EASTBOUND MAINLINE CONTINUED:						
	1322+60	-	1322+72	-	60	12" PCC OUTSIDE LANE
	1322+54	-	1324+78	-	554	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1326+39	-	1326+48	-	39	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1327+42	-	1327+60	-	58	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1327+61	-	1328+61	-	260	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1329+38	-	1329+56	-	58	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1330+78	-	1330+96	-	58	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1332+59	-	1332+77	-	58	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1339+55	-	1339+61	-	26	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1355+73	-	1356+45	-	192	7" PCC OUTSIDE SHOULDER
	1365+08	-	1365+44	-	106	7" PCC OUTSIDE SHOULDER
	1377+17	-	1377+27	-	38	12" PCC STH 27 ON RAMP
	1381+31	-	1381+35	-	12	12" PCC STH 27 ON RAMP
	1396+63	-	1400+83	-	1,030	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1399+09	-	1399+18	-	39	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1403+31	-	1403+81	-	140	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1415+57	-	1416+17	-	160	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1417+45	-	1417+54	-	39	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1417+04	-	1418+14	-	280	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1421+10	-	1421+19	-	39	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1422+13	-	1422+45	-	92	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1452+04	-	1452+13	-	39	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1452+58	-	1452+67	-	39	4" FRCP OVER 3"HMA OUTSIDE SHOULDER
	1514+06	-	1514+16	-	50	12" PCC STH 16 OFF RAMP
	1558+46	-	1558+52	-	36	12" PCC OUTSIDE LANE
	1558+89	-	1558+95	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	1587+56	-	1587+62	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	1698+30	-	1698+36	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	1705+59	-	1705+69	-	46	4" SMA OVER 8" PCC OUTSIDE LANE
	1790+86	-	1790+92	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	1791+26	-	1791+32	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	1830+65	-	1830+71	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	1936+59	-	1936+65	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	1938+00	-	1938+06	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	1982+95	-	1983+01	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	2001+81	-	2001+87	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	2002+92	-	2003+02	-	46	4" SMA OVER 8" PCC OUTSIDE LANE
	2038+12	-	2038+20	-	44	4" SMA OVER 8" PCC OUTSIDE LANE
	2074+77	-	2074+83	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	2090+38	-	2090+74	-	336	4" SMA OVER 8" PCC OUTSIDE LANE & SHOULDER
	2102+96	-	2103+02	-	30	4" SMA OVER 8" PCC OUTSIDE LANE
	2103+98	-	2104+16	-	74	4" SMA OVER 8" PCC OUTSIDE LANE
	2111+34	-	2111+40	-	34	11" PCC OUTSIDE LANE
	2122+67	-	2122+75	-	50	11" PCC OUTSIDE LANE
	2126+90	-	2126+96	-	34	11" PCC OUTSIDE LANE
	2142+25	-	2142+33	-	50	11" PCC OUTSIDE LANE
	2147+46	-	2147+52	-	34	11" PCC OUTSIDE LANE
	2155+13	-	2155+19	-	34	11" PCC OUTSIDE LANE
	2161+94	-	2162+00	-	34	11" PCC OUTSIDE LANE
	2169+00	-	2169+06	-	34	11" PCC OUTSIDE LANE

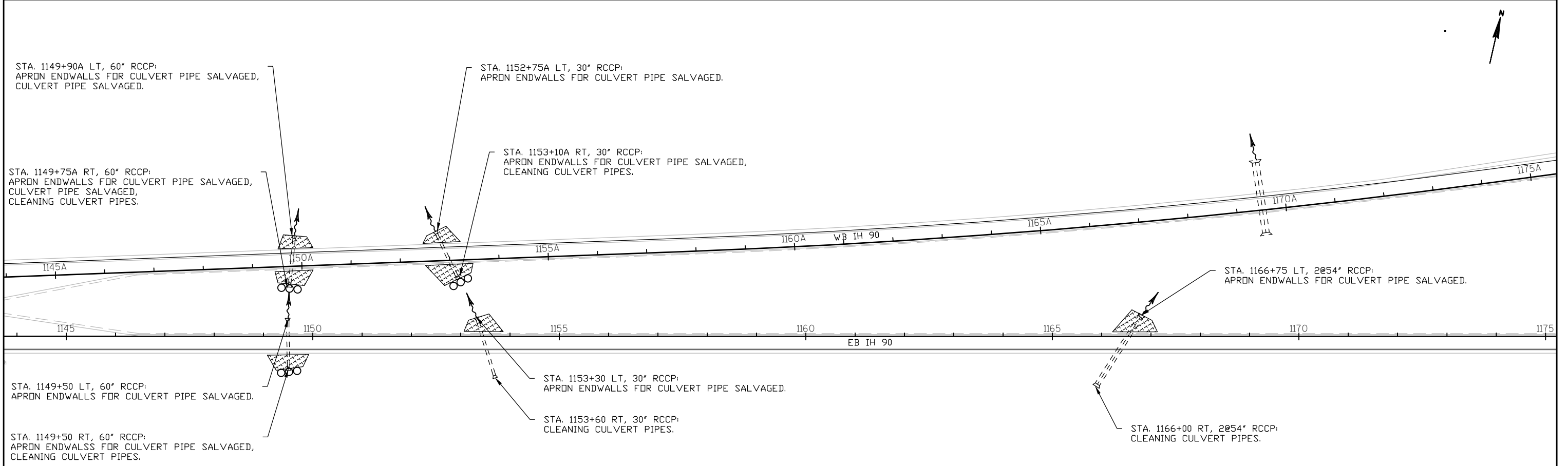
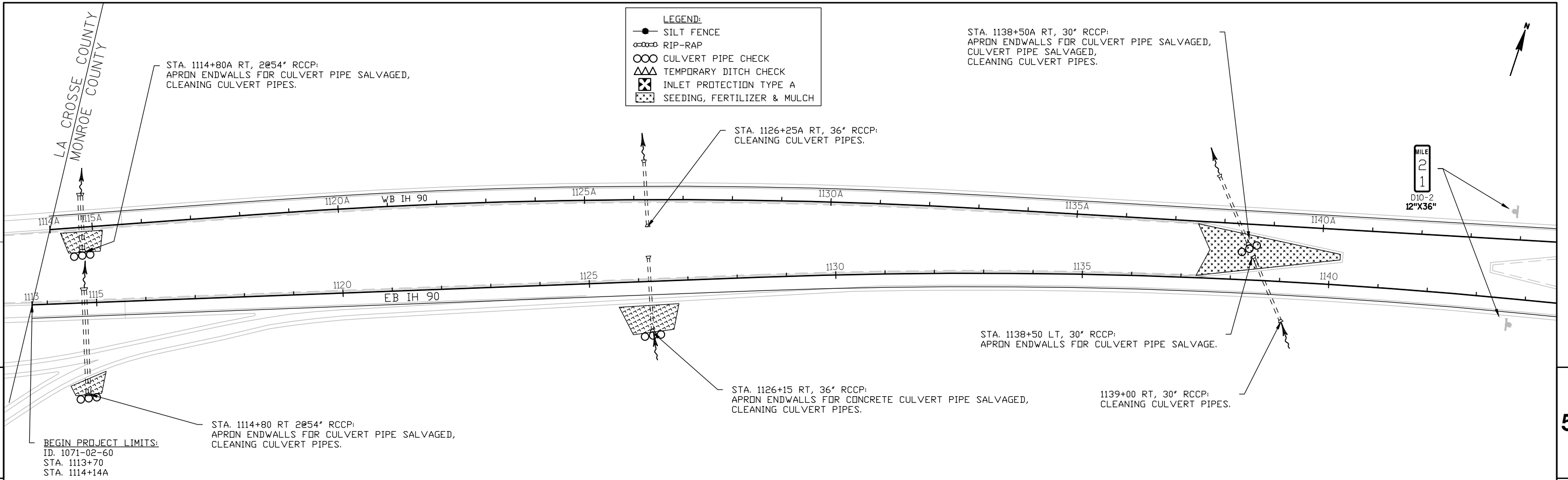
SAWING CONTINUED							
				690.0150	690.0250		
				SAWING	SAWING		
				ASPHALT	CONCRETE		
STAGE	STATION	TO	STATION	LF	LF	EXISTING PAVEMENT	COMMENTS
TYPE							
STAGE 1							
EASTBOUND MAINLINE CONTINUED:							
	2169+68	-	2169+74	-	34	11" PCC	OUTSIDE LANE
	2178+54	-	2178+60	-	34	11" PCC	OUTSIDE LANE
	2214+46	-	2214+54	-	50	11" PCC	OUTSIDE LANE
	2215+37	-	2215+43	-	34	11" PCC	OUTSIDE LANE
	2225+48	-	2225+56	-	50	11" PCC	OUTSIDE LANE
	2227+68	-	2227+74	-	34	11" PCC	OUTSIDE LANE
	2228+27	-	2228+33	-	34	11" PCC	OUTSIDE LANE
	2229+57	-	2229+63	-	34	11" PCC	OUTSIDE LANE
	2235+51	-	2235+69	-	74	11" PCC	OUTSIDE LANE
	2235+98	-	2236+04	-	34	11" PCC	OUTSIDE LANE
	2239+76	-	2239+82	-	34	11" PCC	OUTSIDE LANE
	2245+15	-	2245+25	-	52	11" PCC	OUTSIDE LANE
	2245+15	-	2245+25	-	40	11" PCC	STH 131 ON RAMP
	2251+43	-	2251+49	-	34	11" PCC	OUTSIDE LANE
	2268+12	-	2268+18	-	34	11" PCC	OUTSIDE LANE
	2271+83	-	2271+89	-	34	11" PCC	OUTSIDE LANE
	2289+70	-	2289+76	-	34	11" PCC	OUTSIDE LANE
	2307+01	-	2307+07	-	34	11" PCC	OUTSIDE LANE
	2309+98	-	2310+04	-	34	11" PCC	OUTSIDE LANE
	2320+02	-	2320+08	-	34	11" PCC	OUTSIDE LANE
	2104+45	-	2136+50	20	-	3" HMA	STA 2104+15 TO CTH M
	2137+55	-	2219+00	10	-	3" HMA	CTH M TO STH 131
	2219+00	-	2236+00	40	-	3" HMA	STH 131 INTERCHANGE
	2236+00	-	2328+80	30	-	3" HMA	STH 131 TO USH 12
STAGE 1 TOTALS				100	7,780		
STAGE 2							
WESTBOUND MAINLINE:							
	1139+50A	-	1139+56A	-	40	12" PCC	OUTSIDE LANE
	1227+31A	-	1227+36A	-	21	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1287+71A	-	1287+77A	-	40	12" PCC	OUTSIDE LANE
	1292+96A	-	1293+04A	-	58	12" PCC	OUTSIDE LANE
	1299+87A	-	1299+93A	-	40	12" PCC	OUTSIDE LANE
	1302+69A	-	1302+75A	-	40	12" PCC	OUTSIDE LANE
	1304+43A	-	1304+49A	-	40	12" PCC	OUTSIDE LANE
	1310+57A	-	1310+63A	-	40	12" PCC	OUTSIDE LANE
	1323+67A	-	1323+73A	-	40	12" PCC	OUTSIDE LANE
	1368+21A	-	1368+27A	-	40	12" PCC	OUTSIDE LANE
	1375+27A	-	1375+33A	-	16	12" PCC	STH 27 ON RAMP
	1414+38A	-	1414+38A	-	33	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1416+37A	-	1416+37A	-	290	4" FRCP OVER 3"HMA	OUTSIDE SHOULDER
	1542+92A	-	1542+98A	-	16	12" PCC	STH 16 ON RAMP
	1558+60A	-	1558+66A	-	40	12" PCC	OUTSIDE LANE
	1561+06A	-	1561+12A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1627+79A	-	1627+85A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1627+98A	-	1628+04A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1636+32A	-	1636+38A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1640+61A	-	1640+67A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE

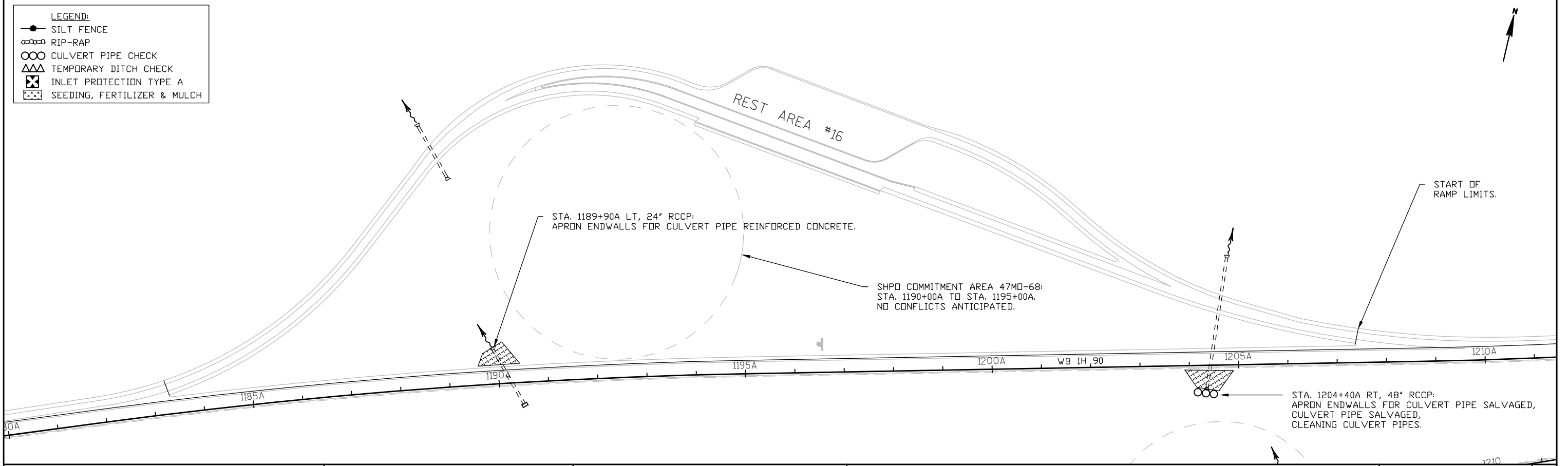
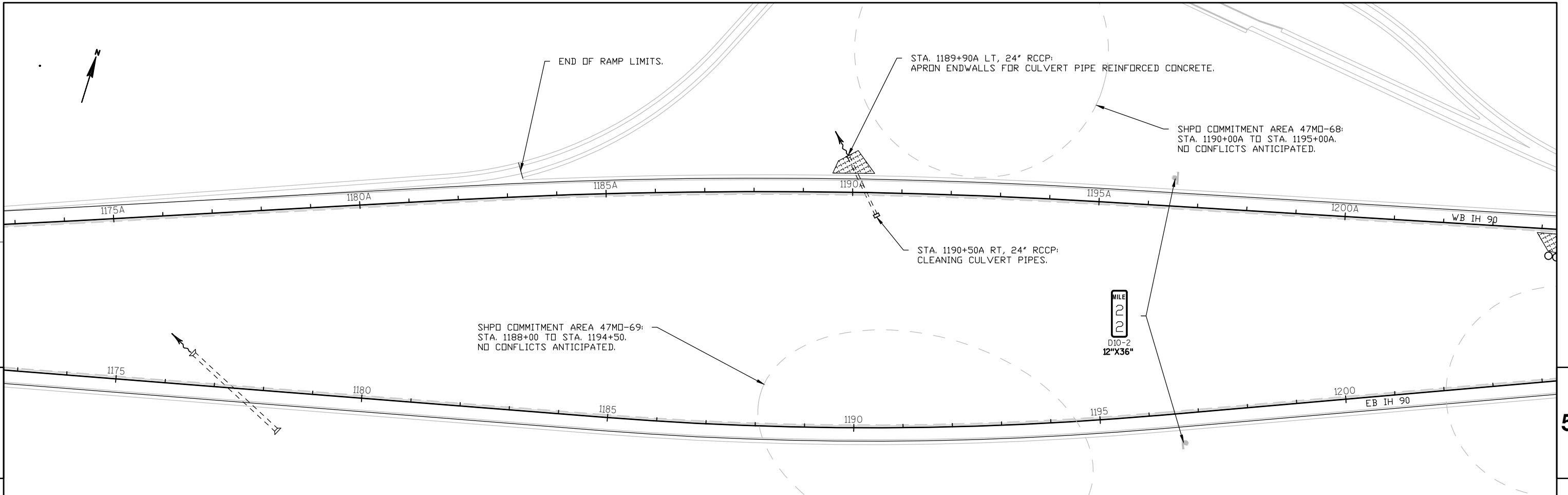
SAWING CONTINUED							
STAGE	STATION	TO	STATION	690.0150	690.0250	EXISTING PAVEMENT	COMMENTS
				SAWING ASPHALT	SAWING CONCRETE		
				LF	LF	TYPE	
STAGE 2							
WESTBOUND MAINLINE CONTINUED:							
	1640+70A	-	1640+76A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1642+89A	-	1642+95A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1684+13A	-	1684+19A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1685+16A	-	1685+22A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1687+21A	-	1687+27A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1742+57A	-	1742+63A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1748+67A	-	1748+73A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1748+67A	-	1748+73A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1750+87A	-	1750+93A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1801+23A	-	1801+29A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1801+33A	-	1801+39A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1803+68A	-	1803+74A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1803+78A	-	1803+84A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1818+37A	-	1818+43A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1904+61A	-	1904+67A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1904+72A	-	1904+78A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1982+12A	-	1982+18A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	1995+21A	-	1995+27A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	2098+80A	-	2098+86A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	2101+42A	-	2101+48A	-	30	4" SMA OVER 8" PCC	OUTSIDE LANE
	2107+85A	-	2107+93A	-	50	11" PCC	OUTSIDE LANE
	2108+04A	-	2108+10A	-	34	11" PCC	OUTSIDE LANE
	2112+81A	-	2112+87A	-	34	11" PCC	OUTSIDE LANE
	2114+90A	-	2115+10A	-	76	11" PCC	OUTSIDE LANE
	2116+01A	-	2116+07A	-	34	11" PCC	OUTSIDE LANE
	2116+94A	-	2117+00A	-	34	11" PCC	OUTSIDE LANE
	2122+09A	-	2122+15A	-	34	11" PCC	OUTSIDE LANE
	2126+73A	-	2126+79A	-	34	11" PCC	OUTSIDE LANE
	2132+67A	-	2132+73A	-	34	11" PCC	OUTSIDE LANE
	2133+92A	-	2133+98A	-	34	11" PCC	OUTSIDE LANE
	2141+07A	-	2141+13A	-	34	11" PCC	OUTSIDE LANE
	2149+87A	-	2149+93A	-	34	11" PCC	OUTSIDE LANE
	2157+47A	-	2157+53A	-	34	11" PCC	OUTSIDE LANE
	2159+17A	-	2159+23A	-	34	11" PCC	OUTSIDE LANE
	2160+87A	-	2160+93A	-	34	11" PCC	OUTSIDE LANE
	2163+82A	-	2163+88A	-	34	11" PCC	OUTSIDE LANE
	2164+02A	-	2164+08A	-	34	11" PCC	OUTSIDE LANE
	2164+57A	-	2164+63A	-	34	11" PCC	OUTSIDE LANE
	2168+74A	-	2168+80A	-	34	11" PCC	OUTSIDE LANE
	2174+52A	-	2174+58A	-	34	11" PCC	OUTSIDE LANE
	2183+36A	-	2183+44A	-	50	11" PCC	OUTSIDE LANE
	2192+91A	-	2192+97A	-	34	11" PCC	OUTSIDE LANE
	2194+41A	-	2194+47A	-	34	11" PCC	OUTSIDE LANE
	2195+31A	-	2195+37A	-	34	11" PCC	OUTSIDE LANE
	2196+58A	-	2196+64A	-	34	11" PCC	OUTSIDE LANE
	2199+90A	-	2199+96A	-	34	11" PCC	OUTSIDE LANE
	2200+46A	-	2200+52A	-	34	11" PCC	OUTSIDE LANE
	2201+74A	-	2201+80A	-	34	11" PCC	OUTSIDE LANE
	2203+77A	-	2203+83A	-	34	11" PCC	OUTSIDE LANE
	2214+97A	-	2215+03A	-	34	11" PCC	OUTSIDE LANE

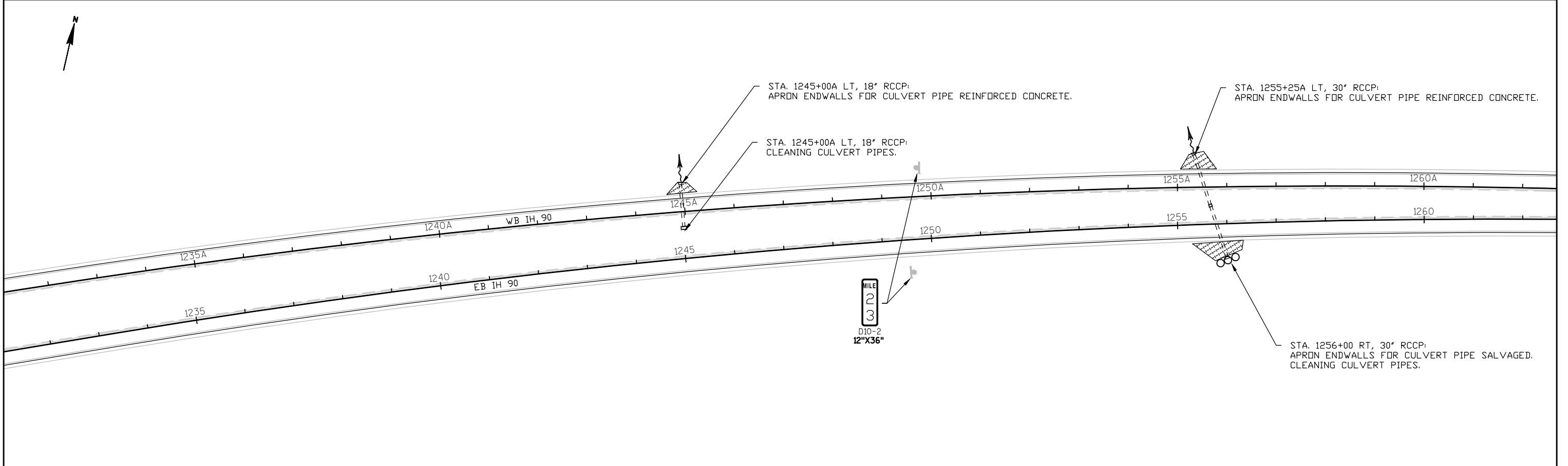
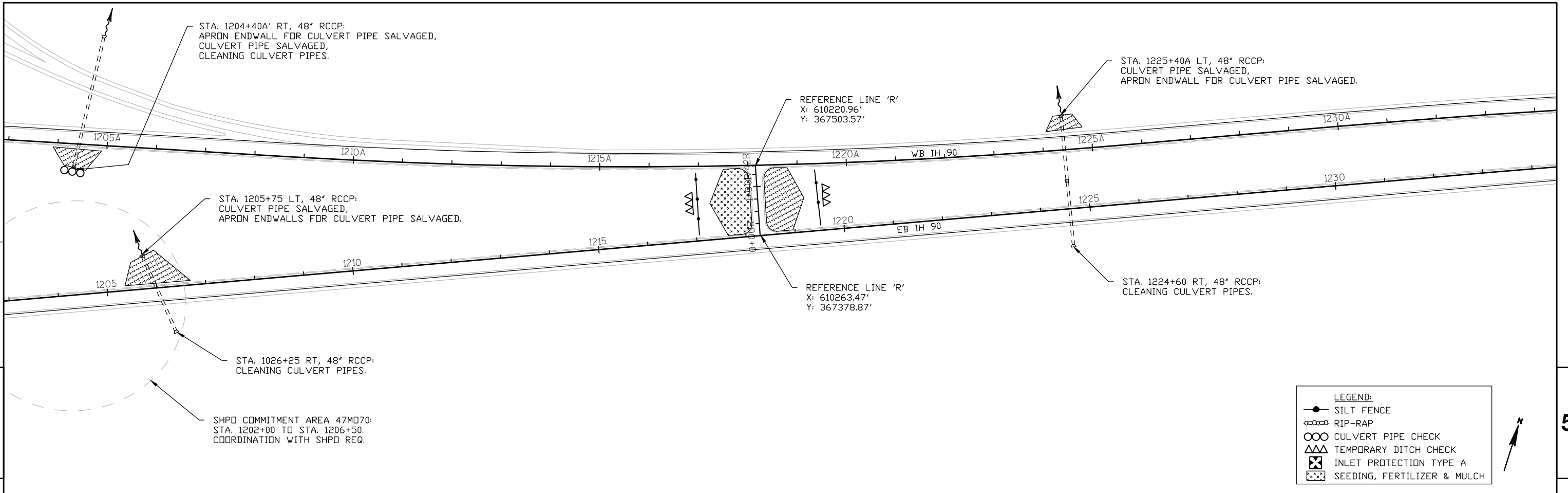
SAWING CONTINUED							
STAGE	STATION	TO	STATION	690.0150	690.0250	EXISTING PAVEMENT	COMMENTS
				SAWING ASPHALT LF	SAWING CONCRETE LF		
STAGE 2							
WESTBOUND MAINLINE CONTINUED:							
	2217+24A	-	2217+30A	-	34	11" PCC	OUTSIDE LANE
	2222+85A	-	2222+91A	-	34	11" PCC	OUTSIDE LANE
	2238+85A	-	2238+95A	-	52	11" PCC	OUTSIDE LANE
	2239+61A	-	2239+67A	-	34	11" PCC	OUTSIDE LANE
	2244+03A	-	2244+09A	-	34	11" PCC	OUTSIDE LANE
	2256+61A	-	2256+67A	-	34	11" PCC	OUTSIDE LANE
	2256+95A	-	2257+01A	-	34	11" PCC	OUTSIDE LANE
	2261+60A	-	2262+40A	-	262	11" PCC	OUTSIDE LANE
	2264+15A	-	2264+21A	-	34	11" PCC	OUTSIDE LANE
	2266+22A	-	2266+28A	-	34	11" PCC	OUTSIDE LANE
	2277+10A	-	2277+16A	-	34	11" PCC	OUTSIDE LANE
	2303+59A	-	2303+65A	-	34	11" PCC	OUTSIDE LANE
	2309+79A	-	2309+85A	-	34	11" PCC	OUTSIDE LANE
	2312+03A	-	2312+09A	-	34	11" PCC	OUTSIDE LANE
	2103+75A	-	2136+25A	20	-	3" HMA	STA. 2103+75A TO CTH M
	2137+30A	-	2220+80A	10	-	3" HMA	CTH M TO STH 131
	2220+80A	-	2238+50A	40	-	3" HMA	STH 131
	2238+50A	-	2326+75A	30	-	3" HMA	STH 131 TO USH 12
STAGE 2 TOTALS				100	3,360		
STAGE 3							
EASTBOUND MAINLINE:							
	1187+55	-	1187+61	-	36	12" PCC	INSIDE LANE
	1209+71	-	1209+77	-	36	12" PCC	INSIDE LANE
	1285+35	-	1285+45	-	56	12" PCC	INSIDE LANE
	1322+60	-	1322+72	-	60	12" PCC	INSIDE LANE
	1551+87	-	1551+95	-	52	12" PCC	INSIDE LANE
	1558+46	-	1558+52	-	36	12" PCC	INSIDE LANE
	1692+46	-	1692+54	-	44	4" SMA OVER 8" PCC	INSIDE LANE
	1705+47	-	1705+59	-	48	4" SMA OVER 8" PCC	INSIDE LANE
	1830+65	-	1830+71	-	30	4" SMA OVER 8" PCC	INSIDE LANE
	2002+93	-	2003+01	-	44	4" SMA OVER 8" PCC	INSIDE LANE
	2090+38	-	2090+74	-	184	4" SMA OVER 8" PCC	INSIDE LANE & SHOULDER
	2102+96	-	2103+02	-	30	4" SMA OVER 8" PCC	INSIDE LANE
	2147+24	-	2147+30	-	30	11" PCC	INSIDE LANE
	2180+91	-	2180+99	-	44	11" PCC	INSIDE LANE
	2137+55	-	2219+00	20	-	3" HMA	STA 2104+15 TO CTH M
	2137+55	-	2228+15	10	-	3" HMA	CTH M TO STH 131
	2228+15	-	2328+80	10	-	3" HMA	STH 131 TO USH 12
STAGE				40	730		
STAGE 4							
WESTBOUND MAINLINE:							
	1123+93A	-	1124+02A	-	21	4" FRCP OVER 3"HMA	INSIDE SHOULDER
	1124+53A	-	1124+62A	-	21	4" FRCP OVER 3"HMA	INSIDE SHOULDER
	1125+26A	-	1125+35A	-	21	4" FRCP OVER 3"HMA	INSIDE SHOULDER
	1155+12A	-	1155+16A	-	13	4" FRCP OVER 3"HMA	INSIDE SHOULDER
	1155+41A	-	1155+45A	-	13	4" FRCP OVER 3"HMA	INSIDE SHOULDER

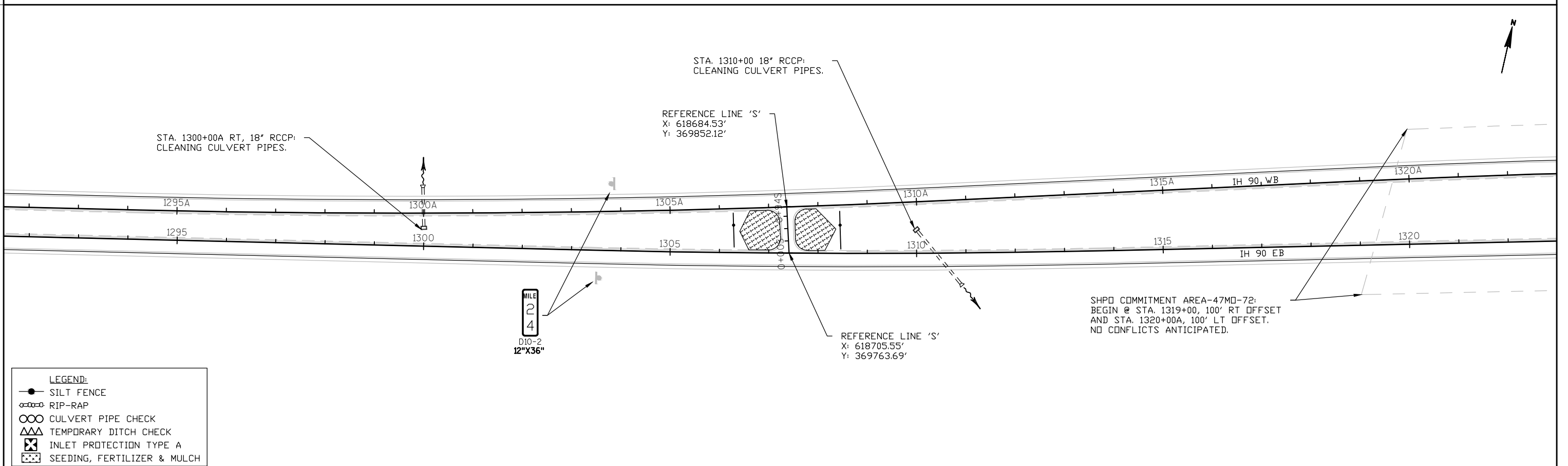
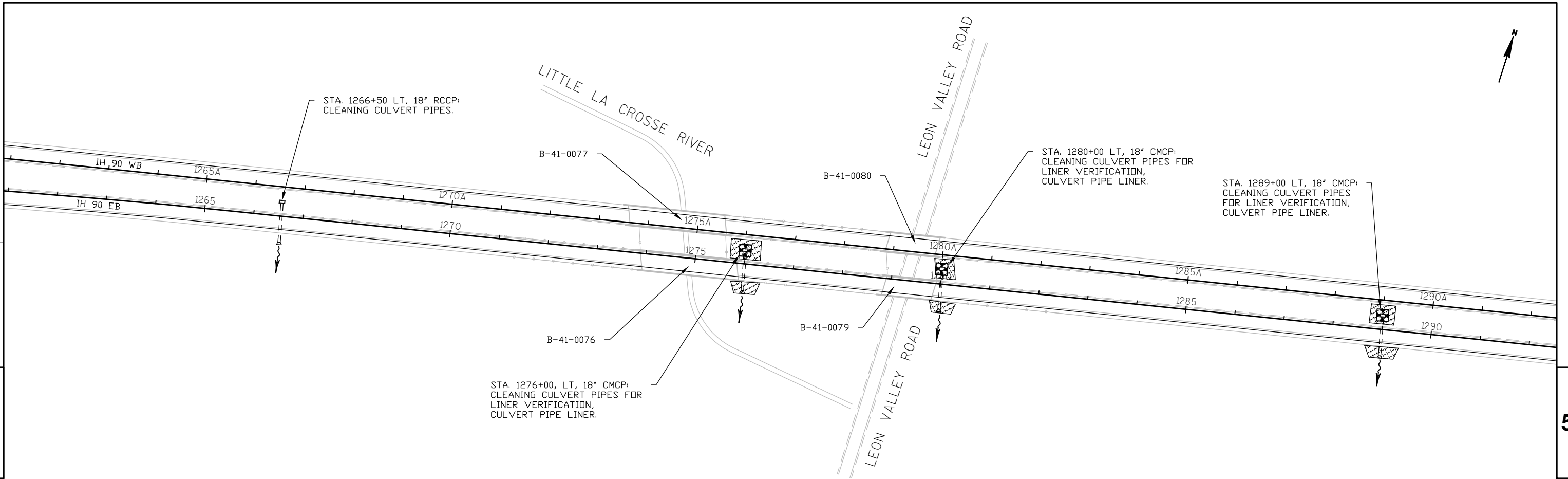
SAWING CONTINUED						
STAGE	STATION	TO	STATION	690.0150	690.0250	EXISTING PAVEMENT
				SAWING	SAWING	
				ASPHALT	CONCRETE	
				LF	LF	TYPE
COMMENTS						
STAGE 4						
WESTBOUND MAINLINE CONTINUED:						
	1155+60A	-	1155+64A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1162+28A	-	1162+61A	-	57	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1162+53A	-	1162+57A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1162+70A	-	1162+74A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1163+21A	-	1163+30A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1166+06A	-	1166+15A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1166+37A	-	1166+51A	-	26	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1166+79A	-	1166+83A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1168+39A	-	1168+48A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1168+76A	-	1168+85A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1179+24A	-	1179+33A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1179+39A	-	1179+48A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1179+52A	-	1179+56A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1184+55A	-	1184+64A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1202+13A	-	1202+17A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1202+26A	-	1202+35A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1202+43A	-	1202+52A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1203+11A	-	1203+20A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1204+01A	-	1204+10A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1205+03A	-	1205+12A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1205+40A	-	1205+49A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1205+83A	-	1205+87A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1206+16A	-	1206+25A	-	21	7" PCC INSIDE SHOULDER
	1208+49A	-	1208+87A	-	66	7" PCC INSIDE SHOULDER
	1208+99A	-	1209+08A	-	21	7" PCC INSIDE SHOULDER
	1213+53A	-	1213+67A	-	26	7" PCC INSIDE SHOULDER
	1213+83A	-	1213+97A	-	26	7" PCC INSIDE SHOULDER
	1217+23A	-	1217+32A	-	21	7" PCC INSIDE SHOULDER
	1218+49A	-	1219+21A	-	120	7" PCC INSIDE SHOULDER
	1233+88A	-	1234+06A	-	34	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1246+90A	-	1246+99A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1255+99A	-	1256+03A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1299+87A	-	1299+93A	-	36	12" PCC INSIDE LANE
	1310+92A	-	1311+01A	-	54	12" PCC INSIDE LANE
	1325+66A	-	1325+75A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1332+85A	-	1334+15A	-	210	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1355+31A	-	1355+49A	-	34	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1367+83A	-	1367+87A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1398+65A	-	1398+74A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1420+68A	-	1420+82A	-	26	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1424+81A	-	1424+90A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1425+21A	-	1425+30A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1425+34A	-	1425+43A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1433+28A	-	1433+55A	-	47	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1433+66A	-	1433+75A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1442+08A	-	1442+17A	-	21	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1443+33A	-	1443+37A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1444+93A	-	1444+97A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1445+13A	-	1445+17A	-	13	4" FRCP OVER 3"HMA INSIDE SHOULDER
	1499+72A	-	1499+97A	-	45	4" FRCP OVER 3"HMA INSIDE SHOULDER

SAWING CONTINUED						
			690.0150	690.0250		
			SAWING	SAWING		
			ASPHALT	CONCRETE	EXISTING PAVEMENT	
STAGE	STATION	TO	STATION	LF	LF	TYPE
						COMMENTS
STAGE 4						
WESTBOUND MAINLINE CONTINUED:						
	1561+06A	-	1561+12A	-	30	4" SMA OVER 8" PCC INSIDE LANE
	1982+12A	-	1982+18A	-	30	4" SMA OVER 8" PCC INSIDE LANE
	2116+91A	-	2116+97A	-	30	11" PCC INSIDE LANE
	2118+21A	-	2118+27A	-	30	11" PCC INSIDE LANE
	2301+77A	-	2301+83A	-	30	11" PCC INSIDE LANE
	2103+75A	-	2136+25A	20	-	3" HMA STA. 2103+75A TO CTH M
	2137+30A	-	2227+80A	10	-	3" HMA CTH M TO STH 131
	2227+80A	-	2326+75A	10	-	3" HMA STH 131 TO USH 12
STAGE 4 TOTALS				40	1,697	
UNDISTRIBUTED				93	4,491	
GRAND TOTALS				373	18,057	

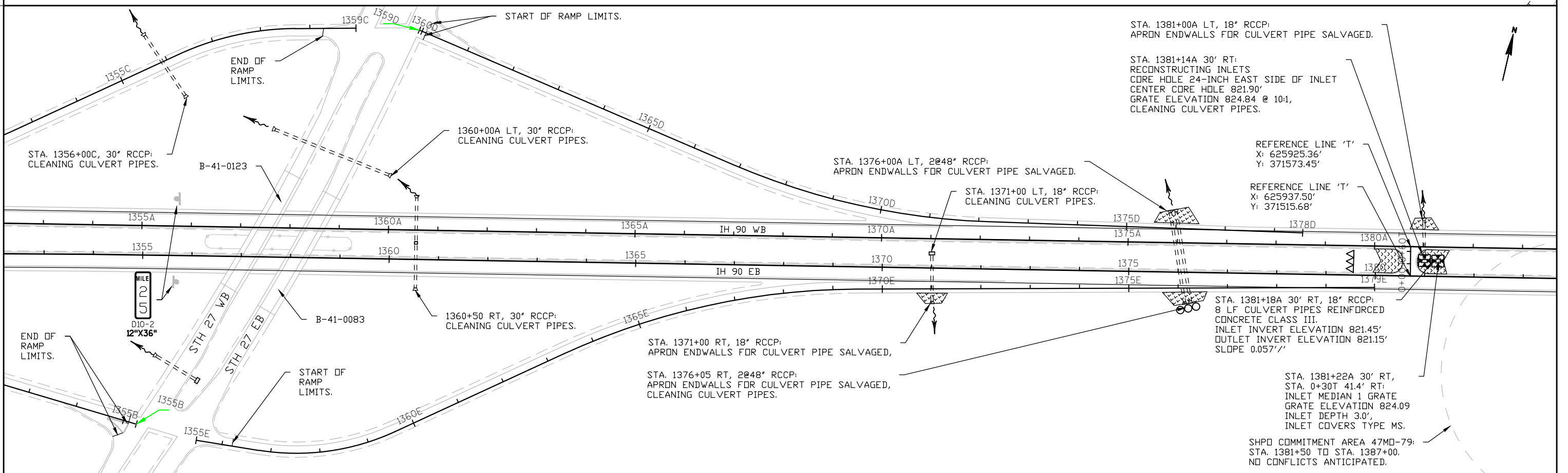
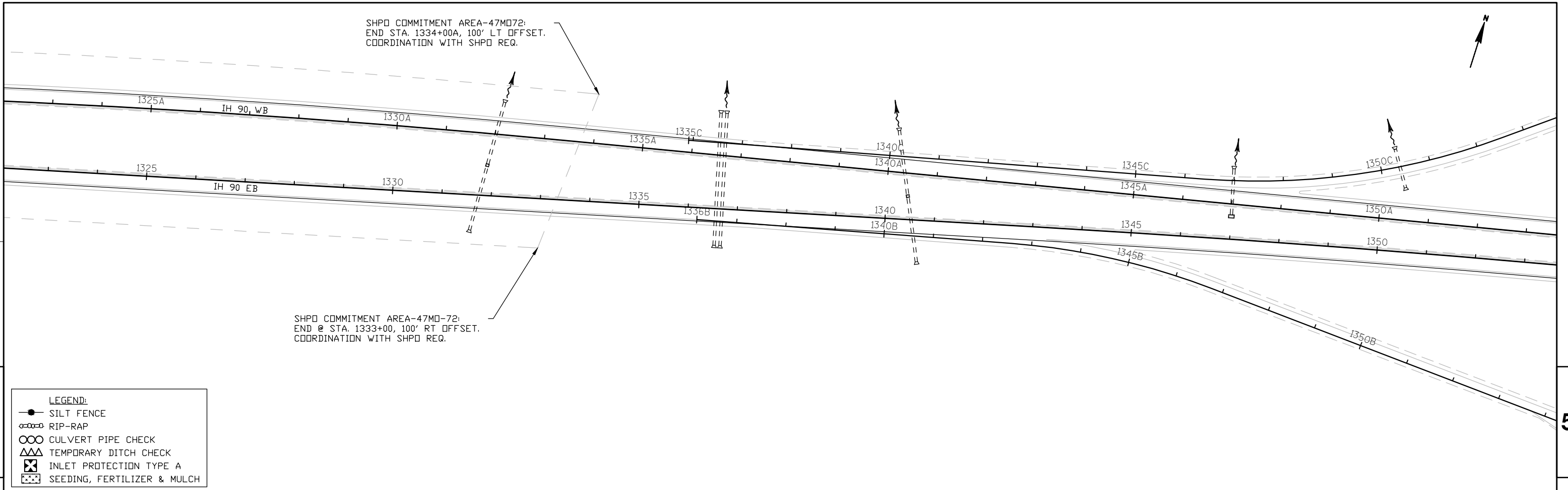


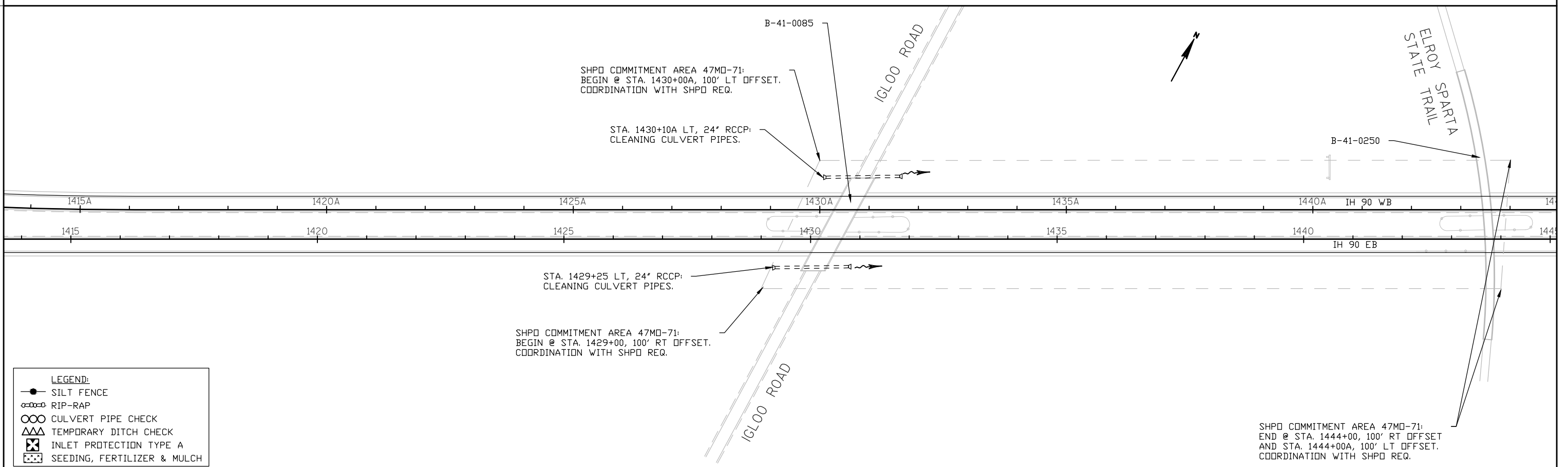
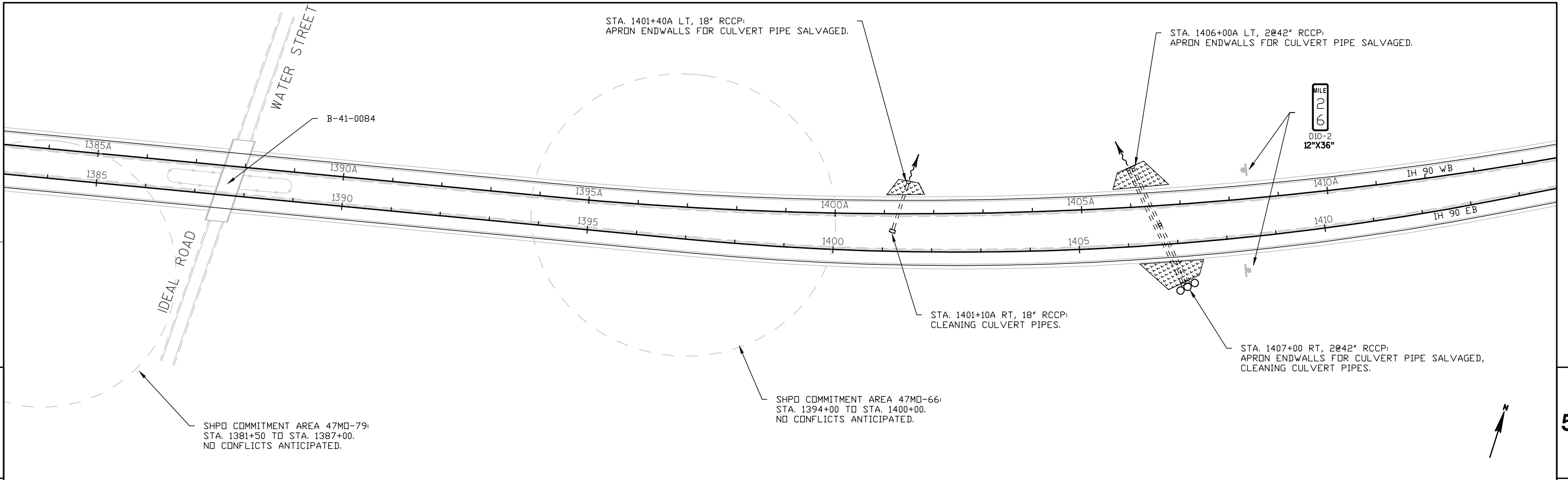






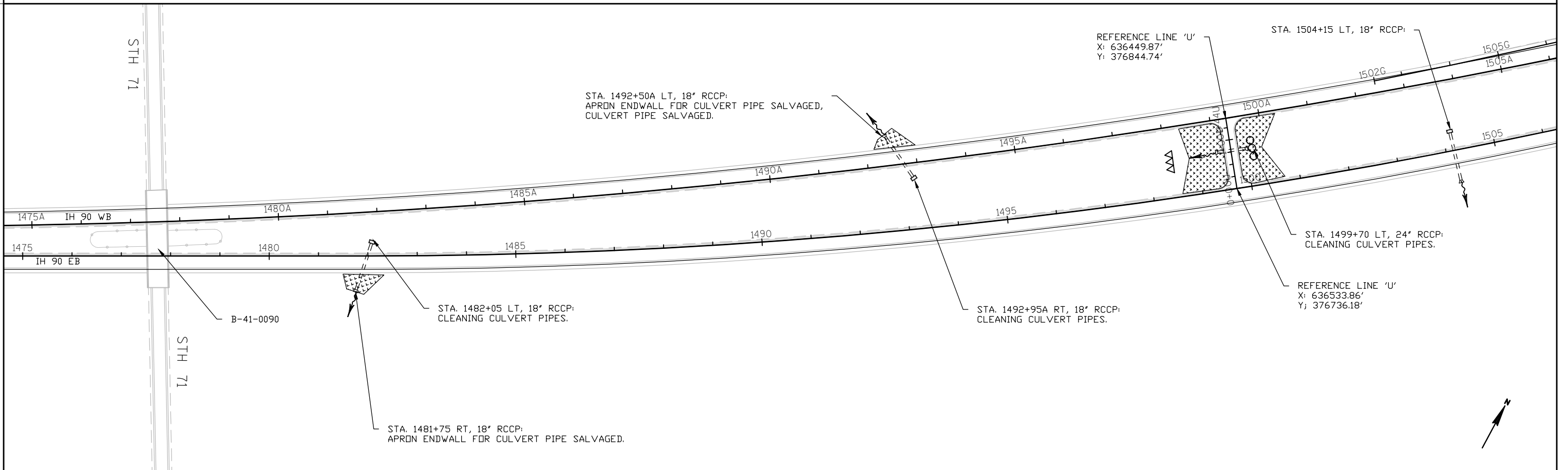
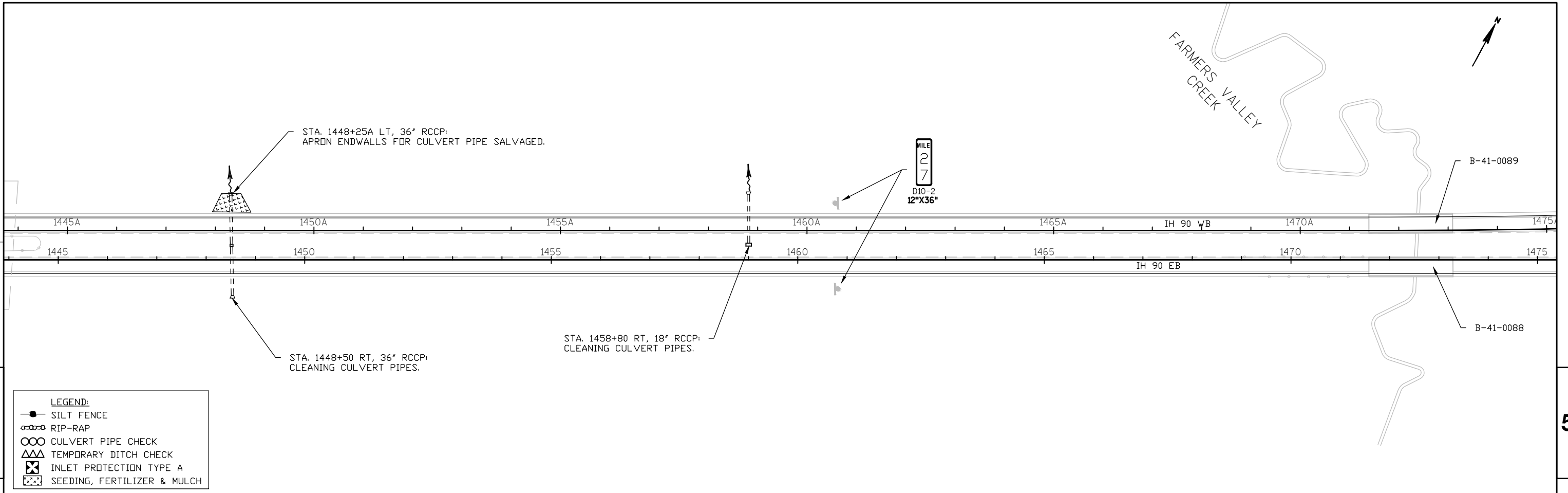
LEGEND:	
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	RIP-RAP
	CULVERT PIPE CHECK
	TEMPORARY DITCH CHECK
	INLET PROTECTION TYPE A
	SEEDING, FERTILIZER & MULCH

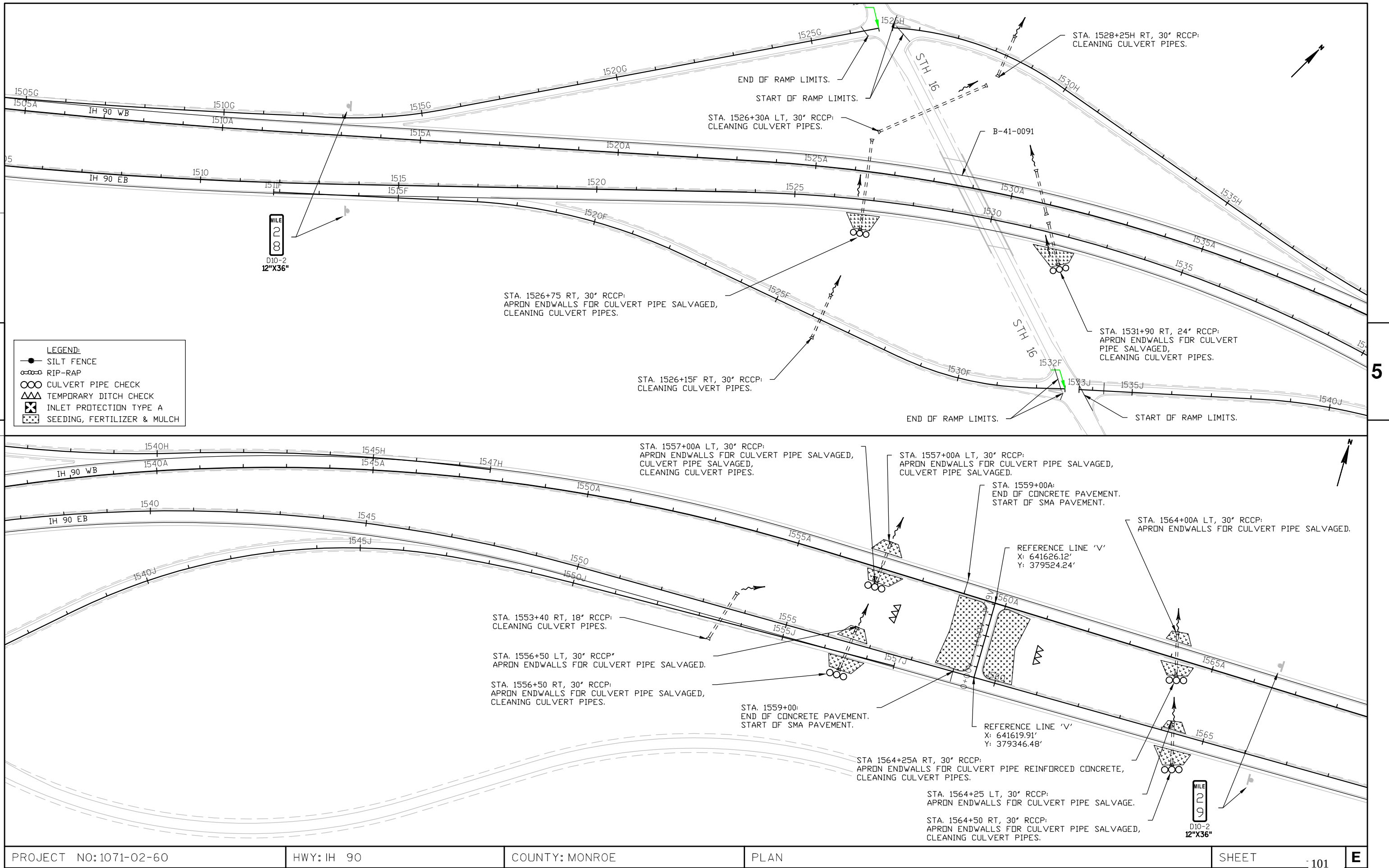


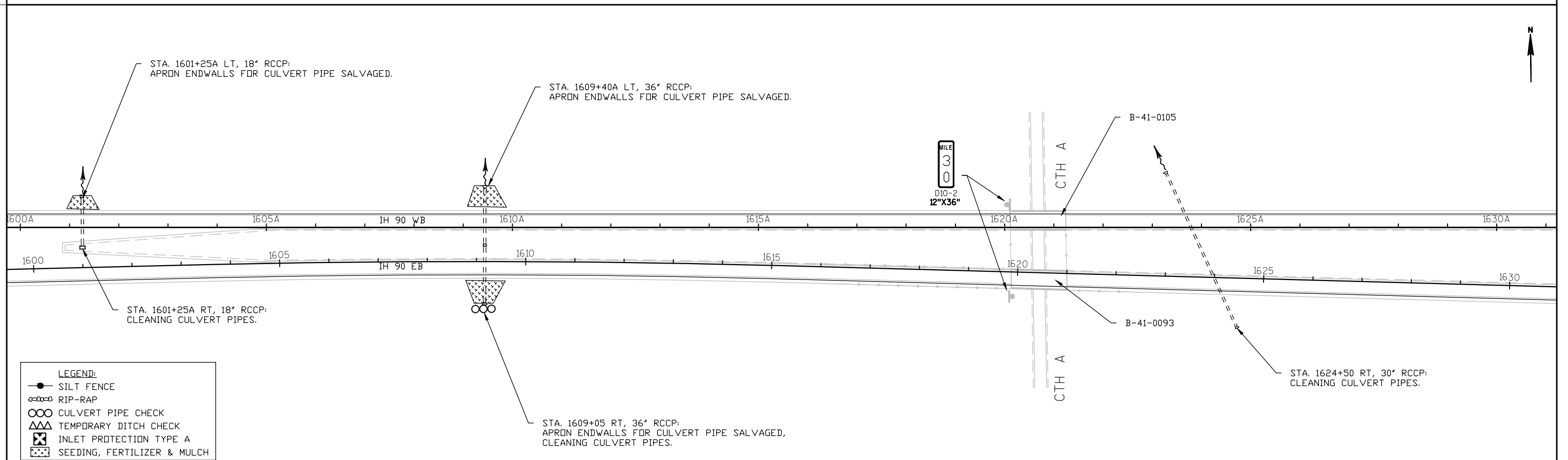
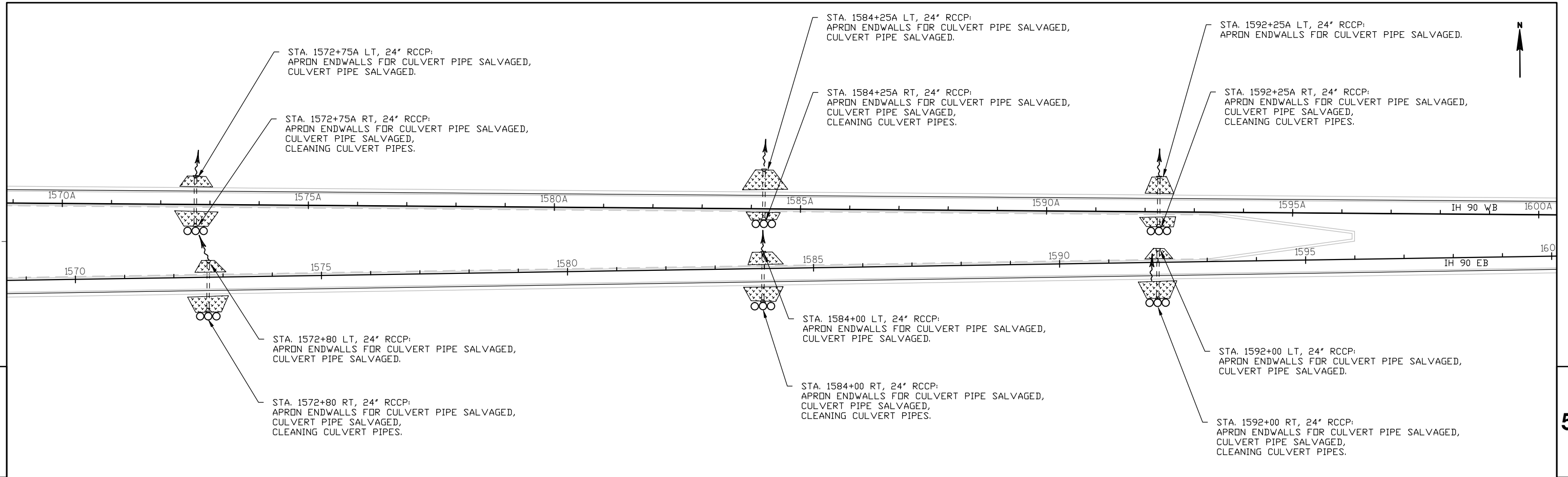


LEGEND:

	SILT FENCE
	RIP-RAP
	CULVERT PIPE CHECK
	TEMPORARY DITCH CHECK
	INLET PROTECTION TYPE A
	SEEDING, FERTILIZER & MULCH

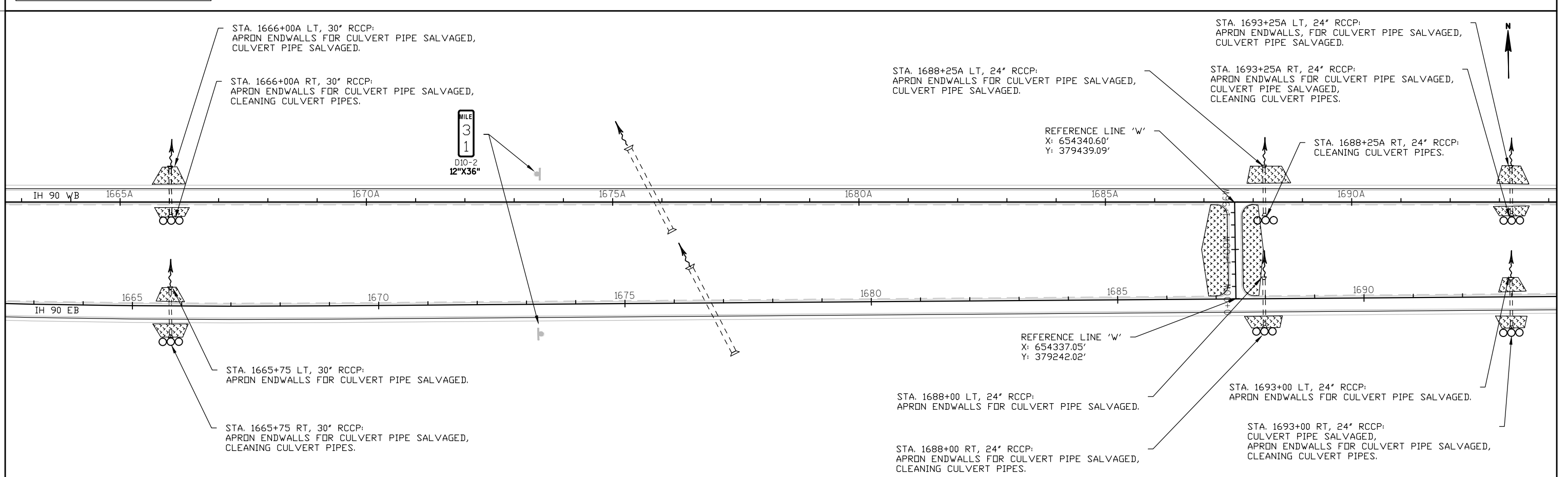
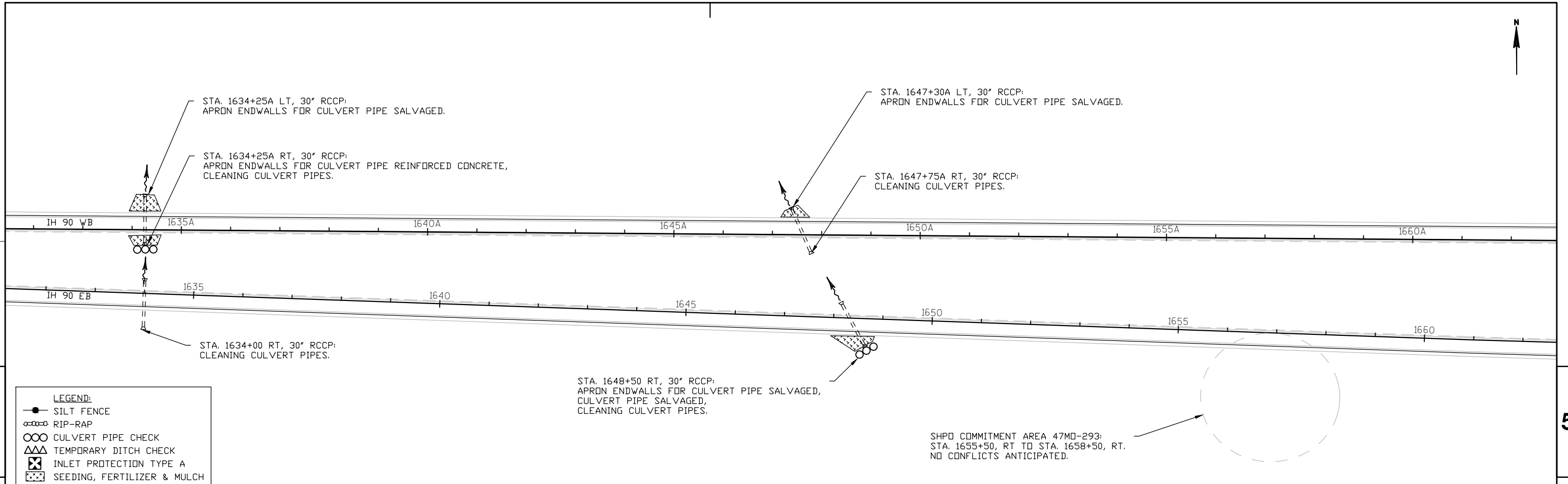






LEGEND:

●	SILT FENCE
○	RIP-RAP
○	CULVERT PIPE CHECK
△	TEMPORARY DITCH CHECK
⊗	INLET PROTECTION TYPE A
⊠	SEEDING, FERTILIZER & MULCH





STA. 1703+25A RT, 24" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED,
CULVERT PIPE SALVAGED,
CLEANING CULVERT PIPES.

STA. 1713+25A LT, 24" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED,
CULVERT PIPE SALVAGED.

STA. 1713+25A RT, 24" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED,
CULVERT PIPE SALVAGED,
CLEANING CULVERT PIPES.

SHPO COMMITMENT AREA 47MD-04:
STA. 1721+00A, LT TO STA. 1725+50A, LT.
COORDINATION WITH SHPO REQ.

STA. 1723+25A LT, 18" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED.

STA. 1723+25A RT, 18" RCCP:
CLEANING CULVERT PIPES.

STA. 1713+00 RT, 24" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED,
CLEANING CULVERT PIPES.

STA. 1703+00 LT, 24" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED,
CULVERT PIPE SALVAGED.

STA. 1703+00 RT, 24" RCCP:
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE,
CLEANING CULVERT PIPES.

LEGEND:

- SILT FENCE
- RIP-RAP
- CULVERT PIPE CHECK
- △ TEMPORARY DITCH CHECK
- ⊠ INLET PROTECTION TYPE A
- ▨ SEEDING, FERTILIZER & MULCH

5

5



SHPO COMMITMENT AREA 47MD-03:
STA. 1726+25A TO STA. 1730+00A.
COORDINATION WITH SHPO REQ.

STA. 1730+25A LT, 18" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED.

STA. 1730+25A RT, 18" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED,
CLEANING CULVERT PIPES.

STA. 1743+00 LT, 18" RCCP:
CLEANING CULVERT PIPES.

STA. 1743+00 RT, 18" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED.

MILE
3
2
D10-2
12"X36"

PROJECT NO:1071-02-60

HWY: IH 90

COUNTY: MONROE

PLAN

SHEET

104

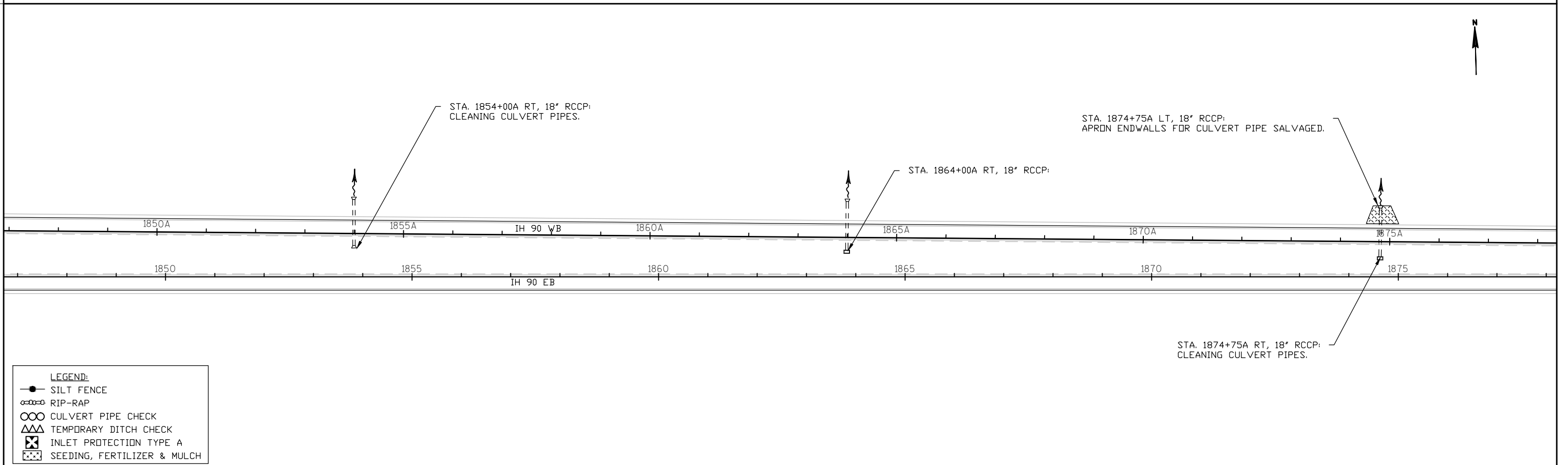
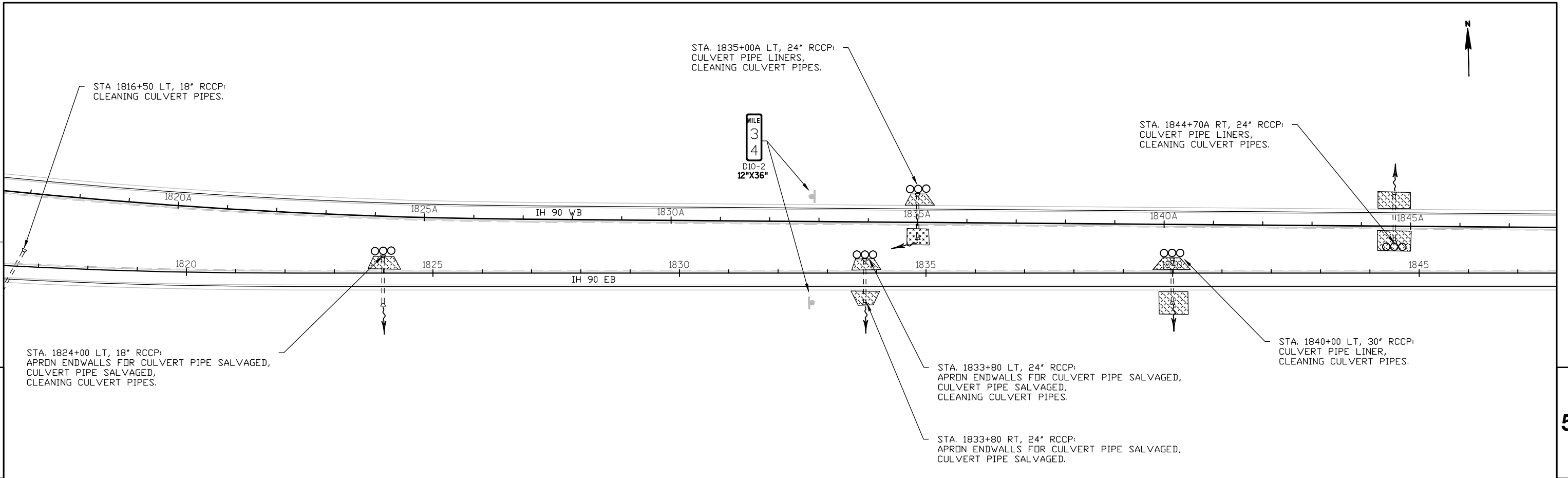
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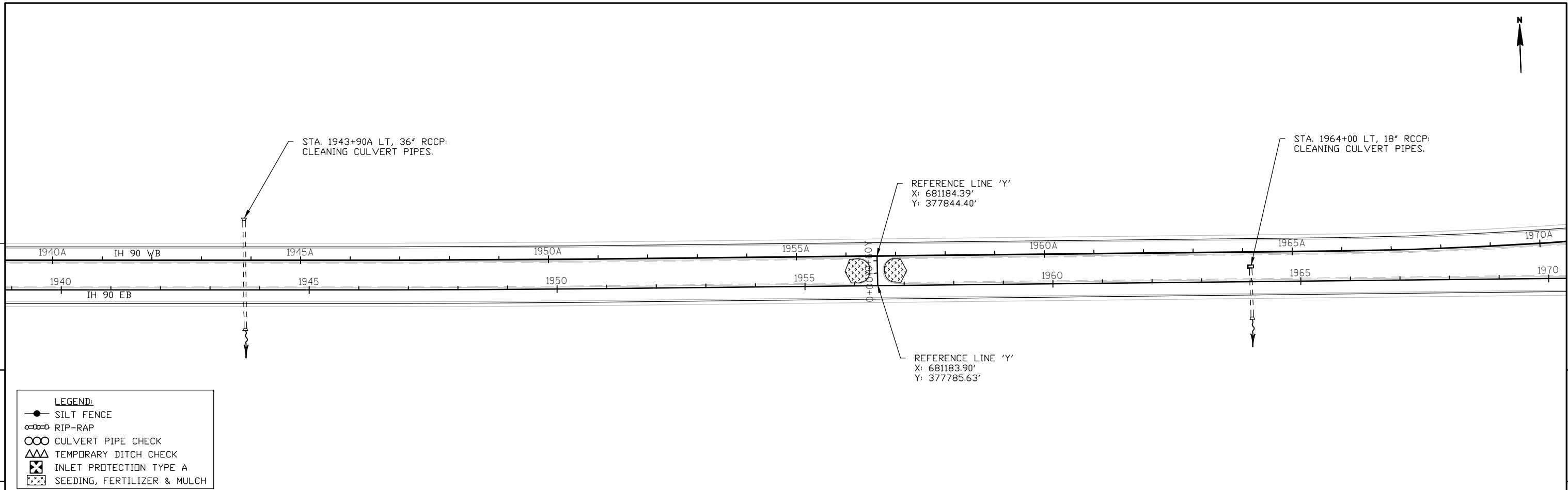
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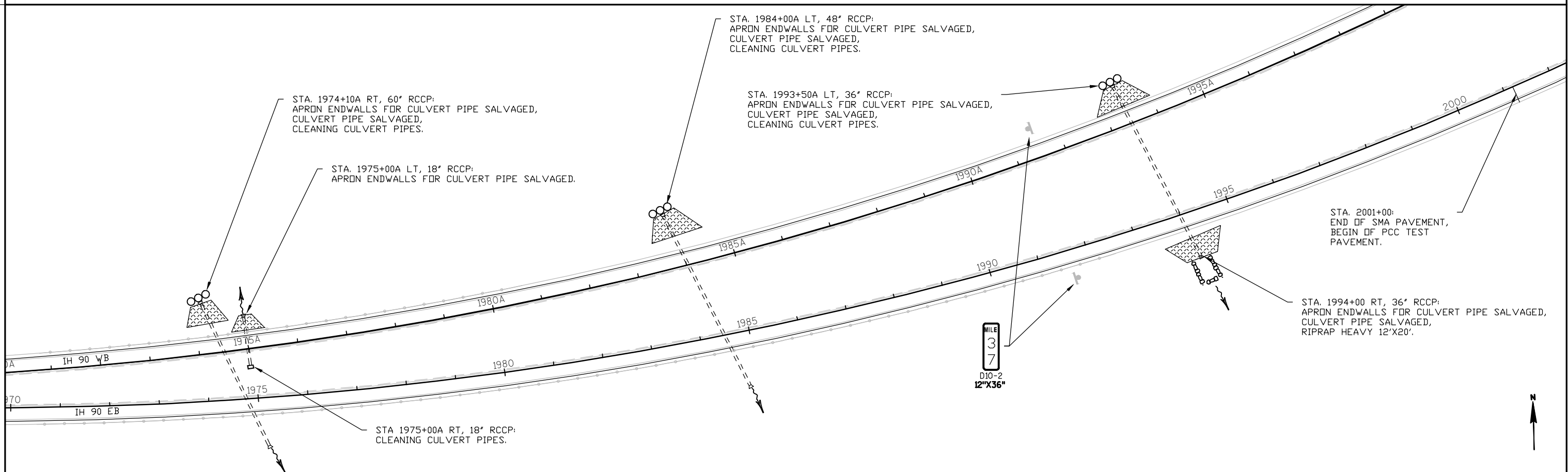
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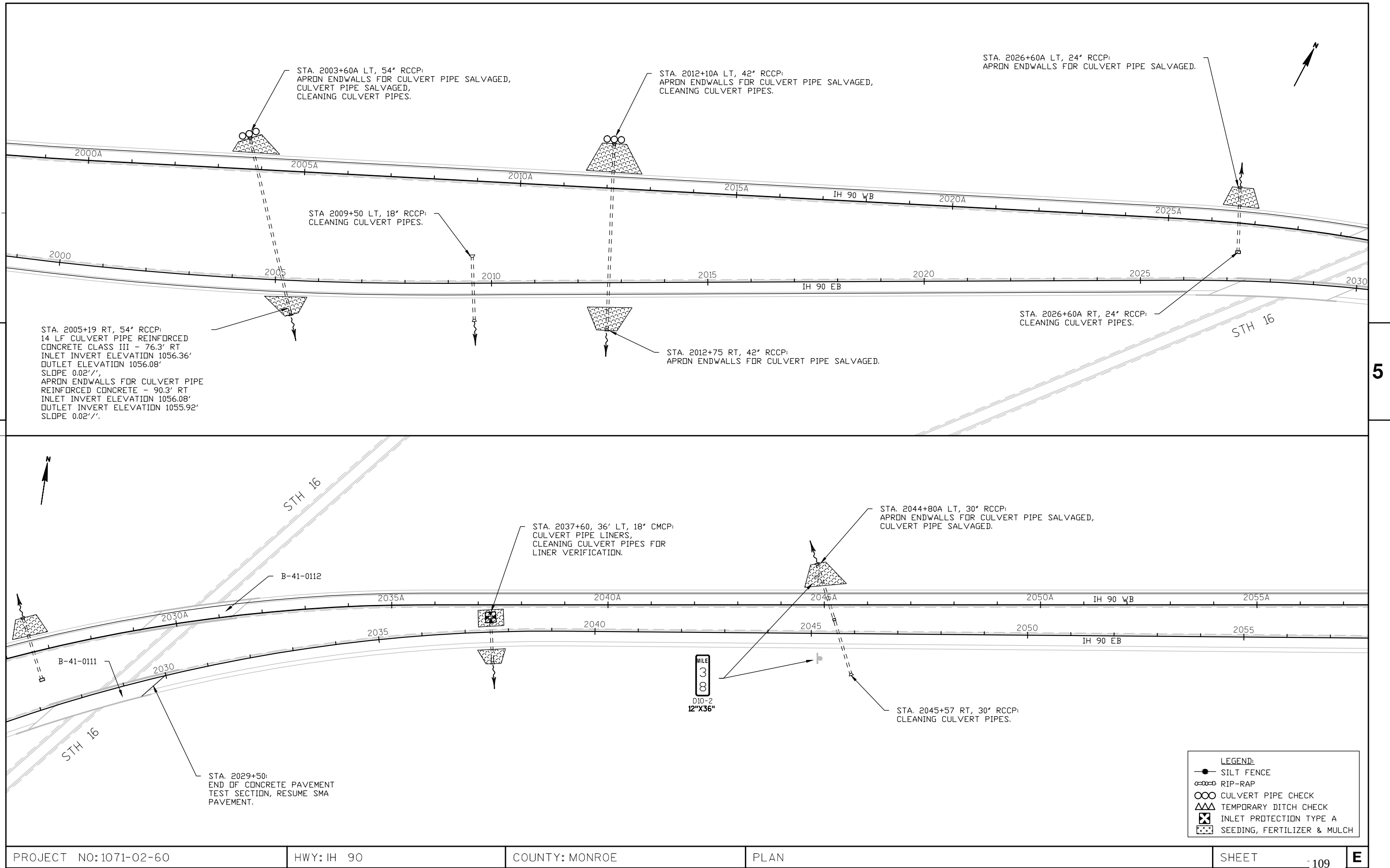
- SILT FENCE
- RIP-RAP
- CULVERT PIPE CHECK
- △ TEMPORARY DITCH CHECK
- ⊠ INLET PROTECTION TYPE A
- ▨ SEEDING, FERTILIZER & MULCH

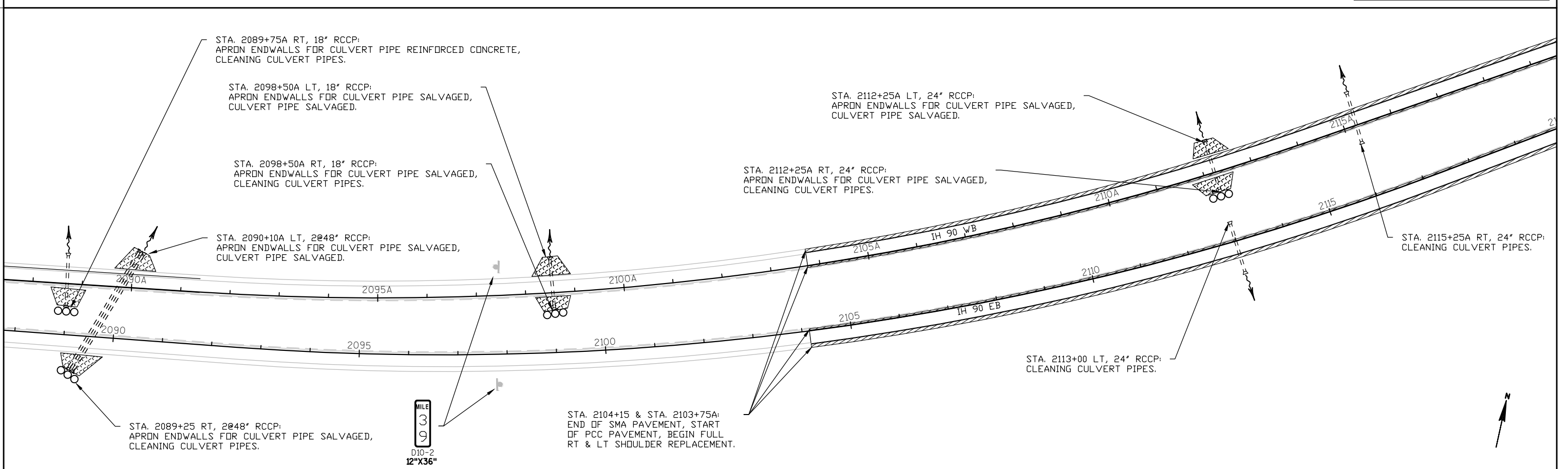
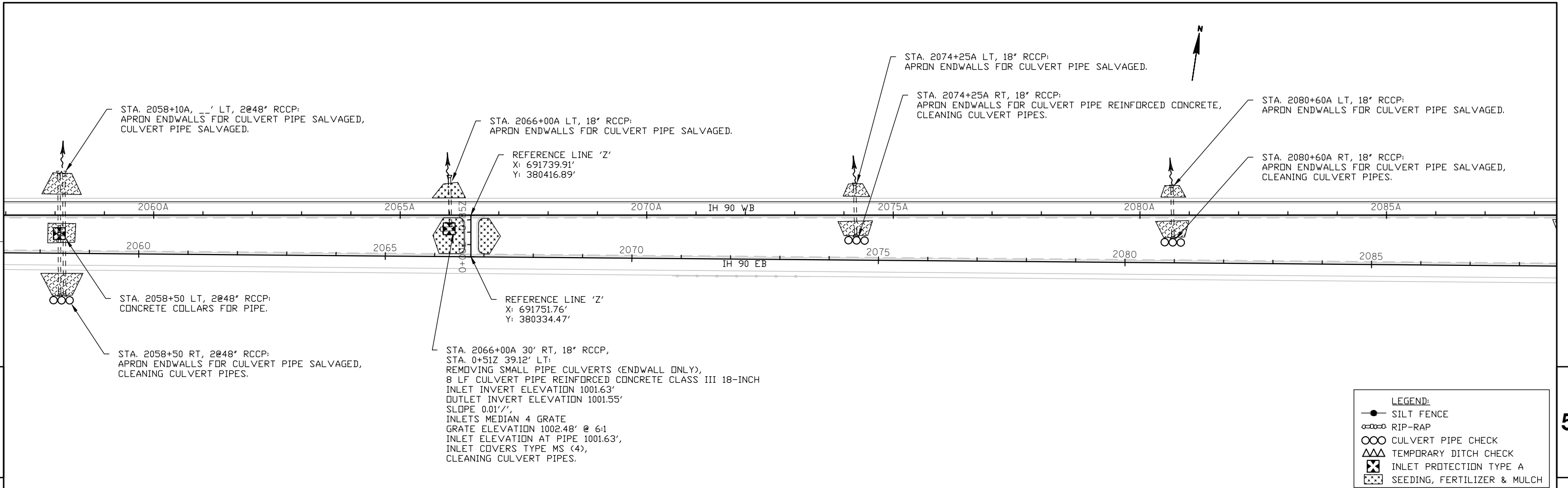
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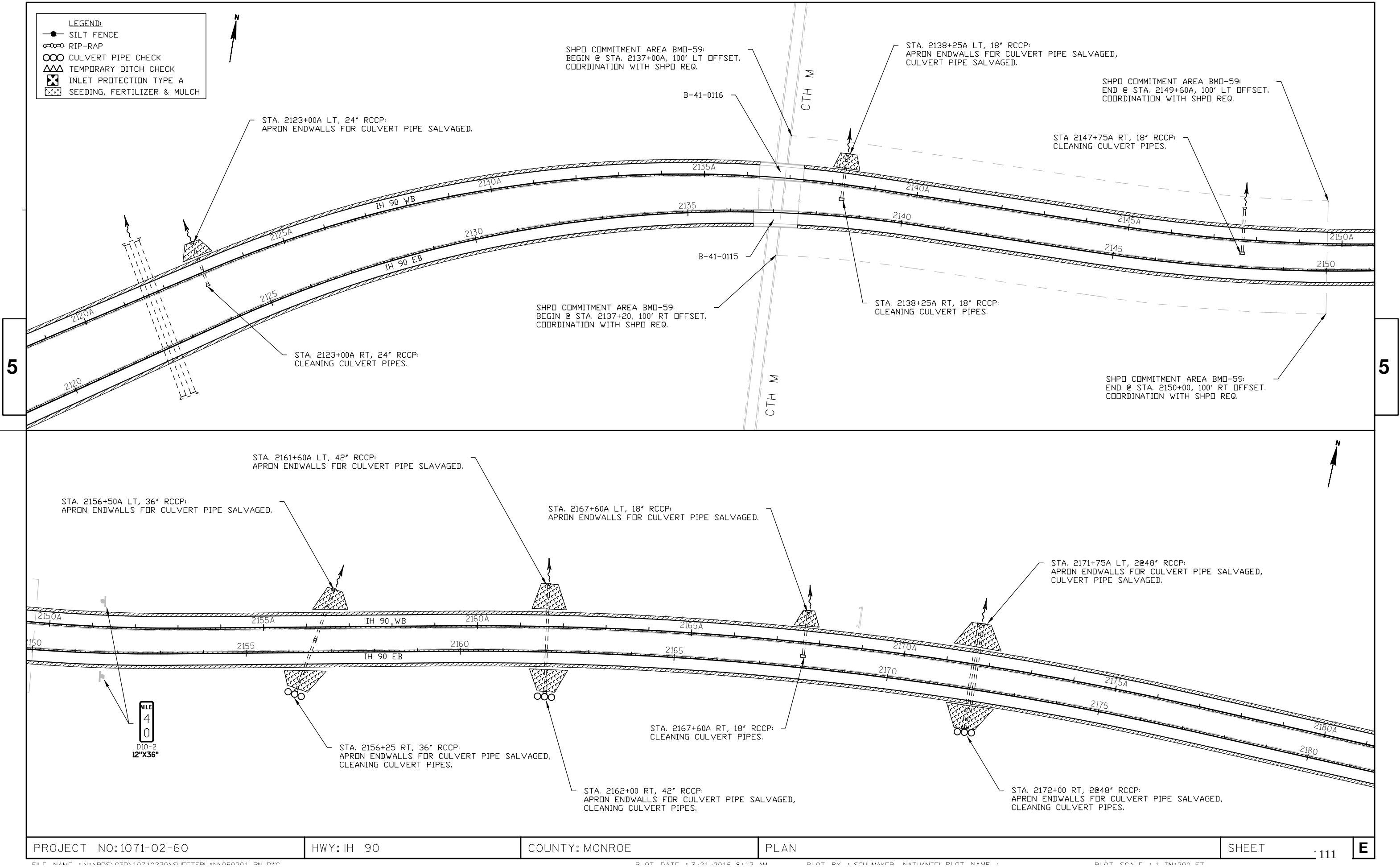


5









- LEGEND:
- SILT FENCE
 - RIP-RAP
 - CULVERT PIPE CHECK
 - TEMPORARY DITCH CHECK
 - INLET PROTECTION TYPE A
 - SEEDING, FERTILIZER & MULCH



STA. 2192+90A LT, 18" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED.

REFERENCE LINE 'AA'
X: 704741.26'
Y: 383160.18'

STA. 2200+34A, 58' RT:
INLETS MEDIAN 1 GRATE
GRATE ELEVATION 1024.47'
INLET DEPTH 3.5',
INLETS COVER TYPE MS.

MILE
4
1
D10-2
12"X36"

REFERENCE LINE 'AA'
X: 704769.34'
Y: 383066.10'

STA. 2192+60A RT, 18" RCCP:
CLEANING CULVERT PIPES.

STA. 2200+42A 58' RT, 18" RCCP:
16 LF CULVERT PIPE REINFORCED
CONCRETE CLASS III 18-INCH
INLET INVERT ELEVATION 1021.34'
OUTLET INVERT ELEVATION 1021.11'
SLOPE 0.017'/'.

STA 2200+50A 58' RT:
RECONSTRUCTING INLET
CORE HOLE 24-INCH WEST SIDE OF INLET
CENTER CORE HOLE ELEVATION 1021.86'
GRATE ELEVATION 1026.00' @ 10:1,
CLEANING CULVERT PIPES.

STA. 2210+00 RT, 2@36" RCCP:
APRON ENDWALLS FOR CULVERT PIPE SALVAGED
CLEANING CULVERT PIPES.

STA. 2223+25L LT, 2@54" RCCP:
CULVERT PIPE SALVAGED,
APRON ENDWALLS FOR CULVERT PIPE SALVAGED,
CLEANING CULVERT PIPES.

END OF RAMP LIMITS.

START OF RAMP LIMITS.

STA. 2231+10A LT, 24" RCCP:
CLEANING CULVERT PIPES.

STA 2239+25A RT, 18" RCCP:
CLEANING CULVERT PIPES.

STA. 2217+75 RT, 2@36" RCCP:
CLEANING CULVERT PIPES.

START OF RAMP LIMITS.

STA. 2231+75N LT, 24" RCCP:
CLEANING CULVERT PIPES.

END OF RAMP LIMITS.

PROJECT NO:1071-02-60

HWY: IH 90

COUNTY: MONROE

PLAN

SHEET

112

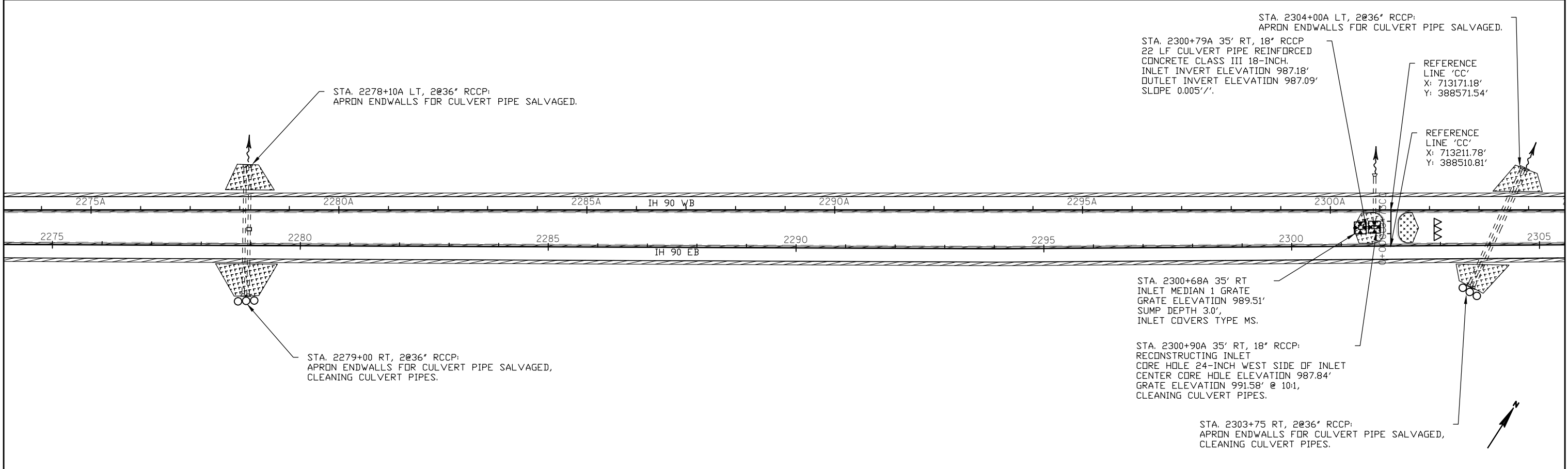
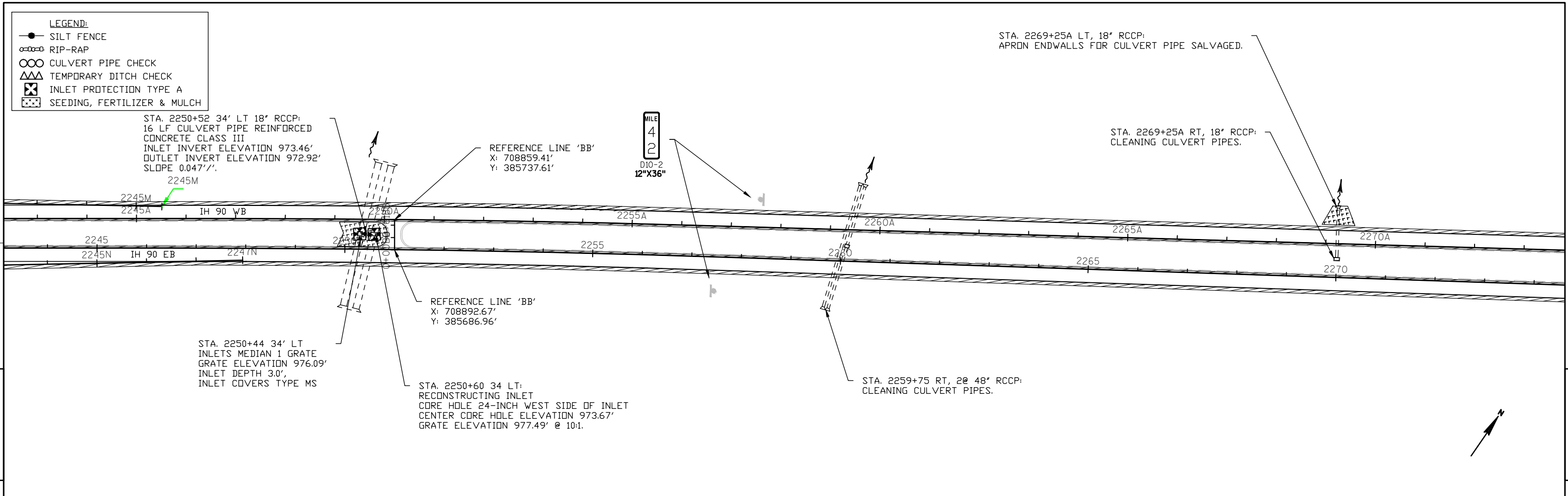
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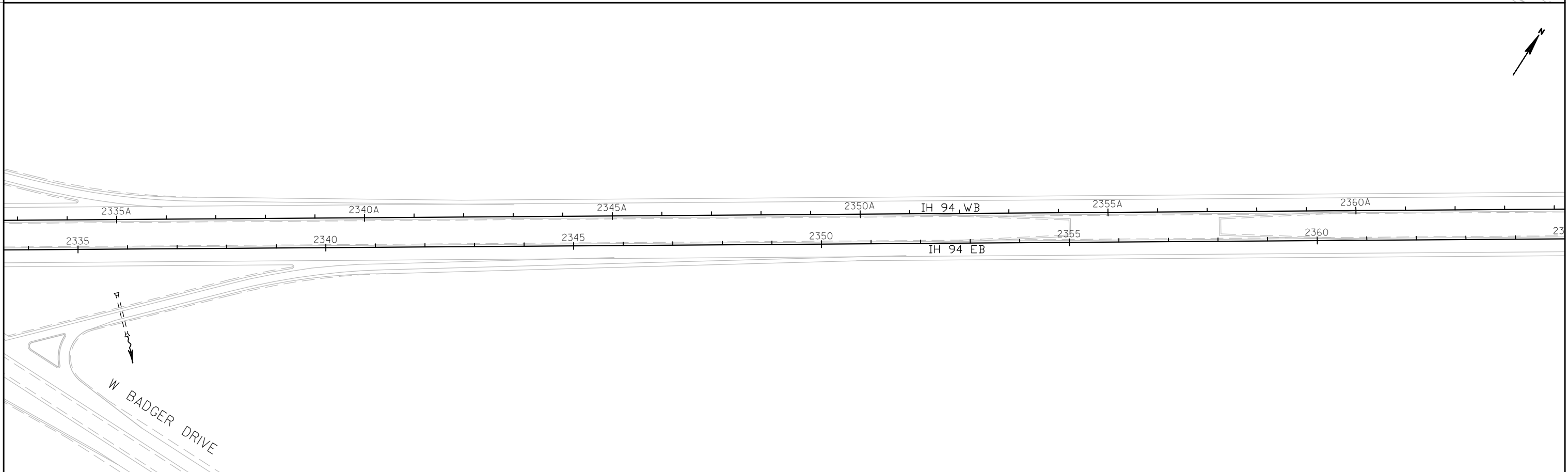
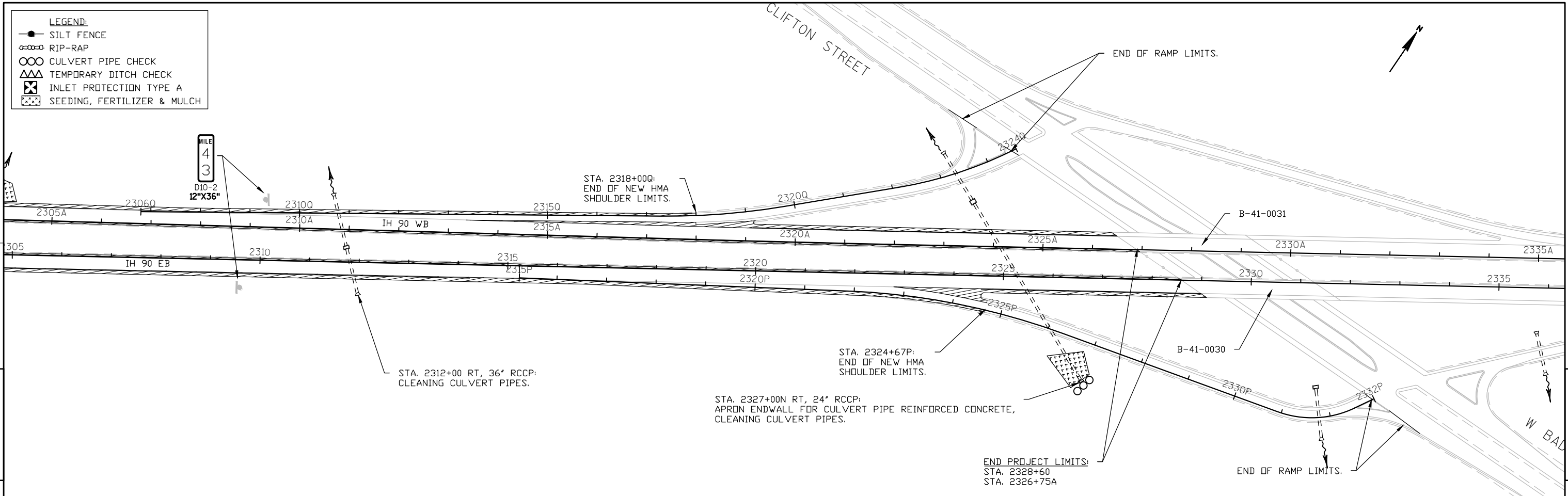
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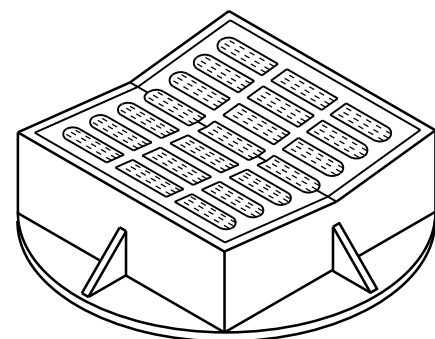
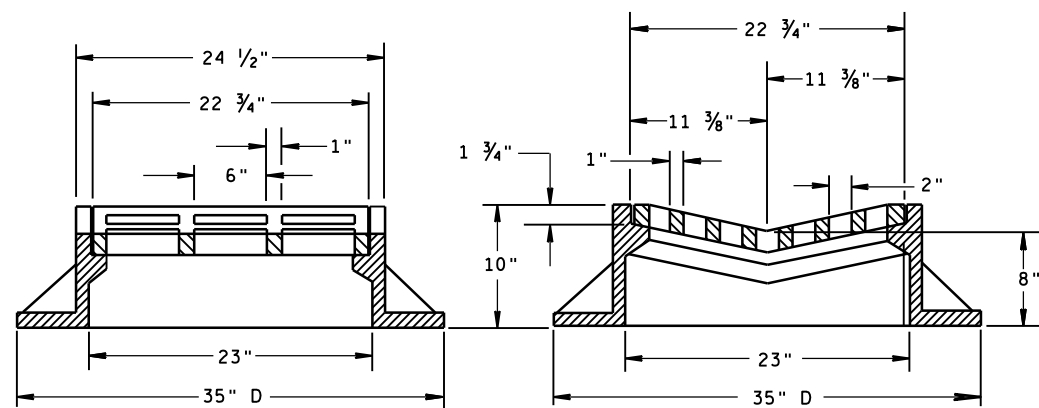
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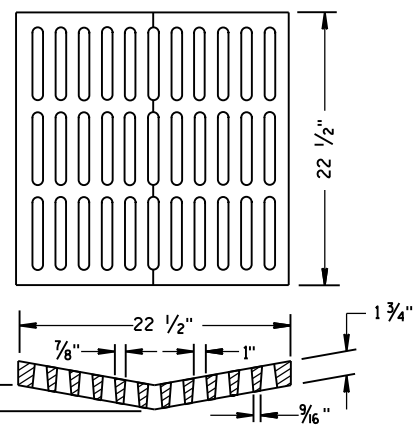


Standard Detail Drawing List

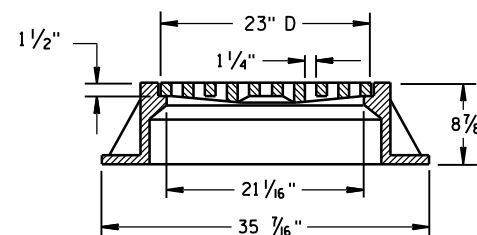
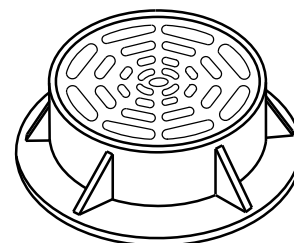
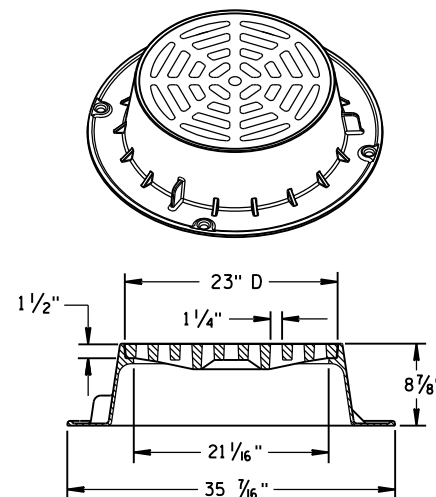
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08C09-01	INLETS MEDIAN 3 AND 4 GRATE
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
11A01-05	MAINTENANCE CROSSOVER FOR FREEWAYS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13C09-12A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-12B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-12C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C14-05A	BASE PATCHING CONCRETE
13C14-05B	BASE PATCHING CONCRETE
13C14-05C	BASE PATCHING CONCRETE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-05A	TRAFFIC CONTROL, LANE CLOSURE
15D15-01	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE



TYPE "B"

ALTERNATIVE GRATE FOR
TYPE "B" COVER

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



TYPE "C"

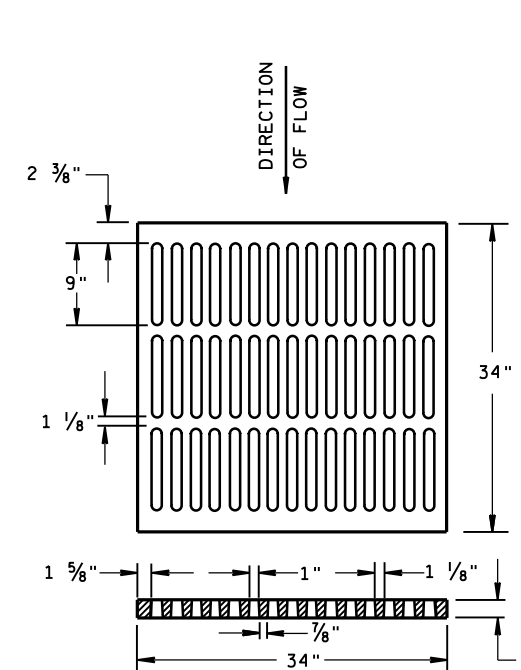
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

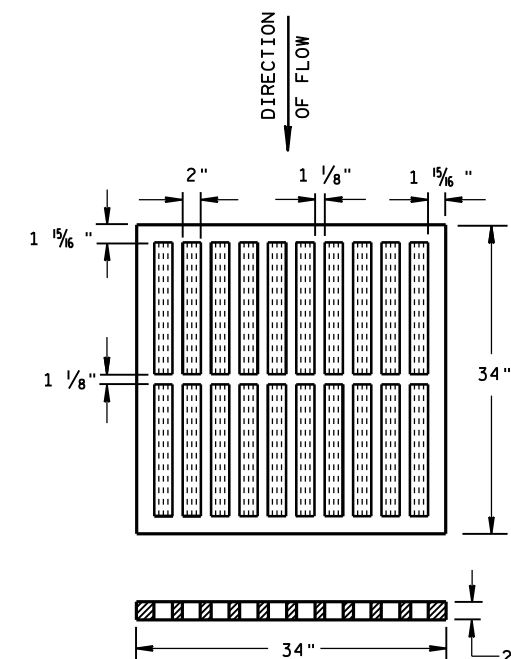
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



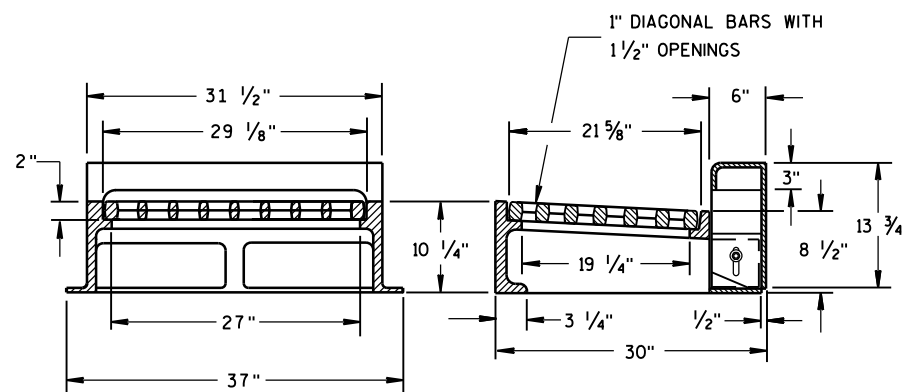
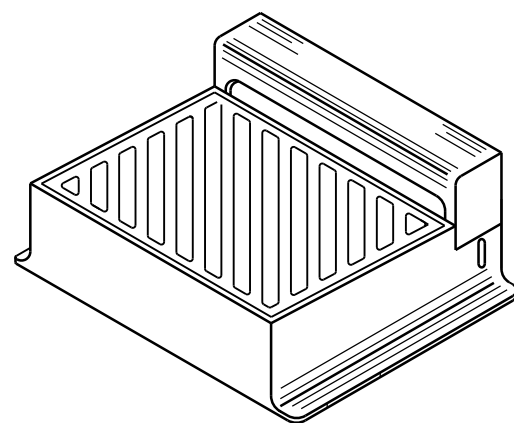
ALTERNATIVE TYPE "MS"

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



TYPE "MS"

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



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

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

DIRECTION
OF FLOW

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

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

APPROVED

11/27/2013

DATE

FHWA

/S/ Jerry H. Zogg
 ROADWAY STANDARDS ENGINEER

116

NT



4" OVERHANGING BASE ON REINFORCED
CAST-IN-PLACE CONCRETE INLETS



INLETS MEDIAN 1 GRATE



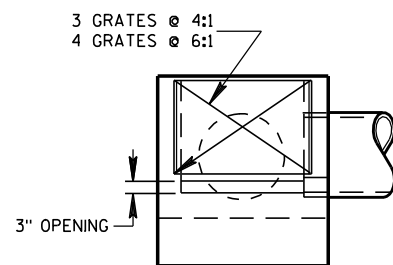
NG BASE ON REINFORCED LACE CONCRETE INLETS



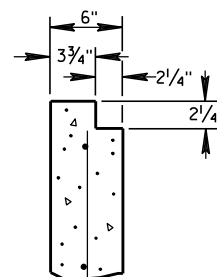
INLETS MEDIAN 2 GRATE

DETAIL "B"

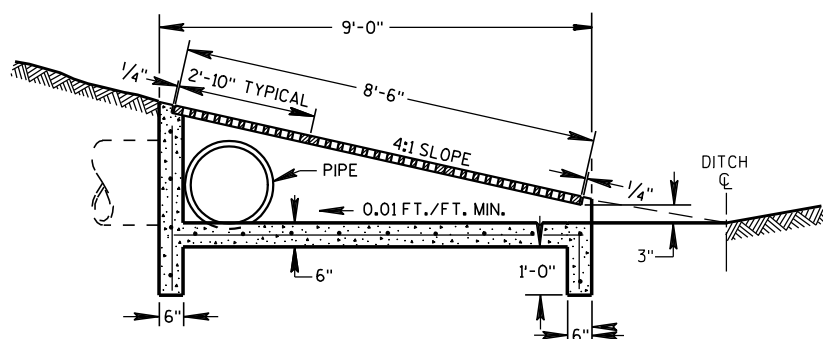
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER 117



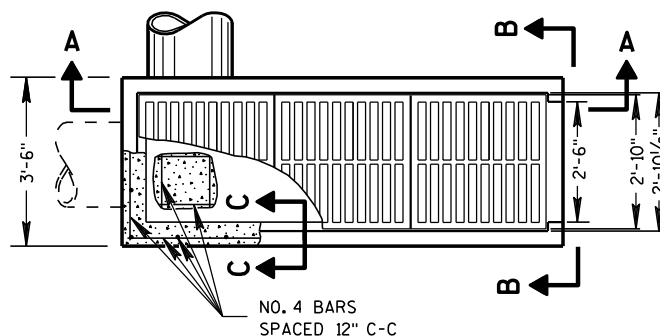
SECTION B-B



SECTION C-C

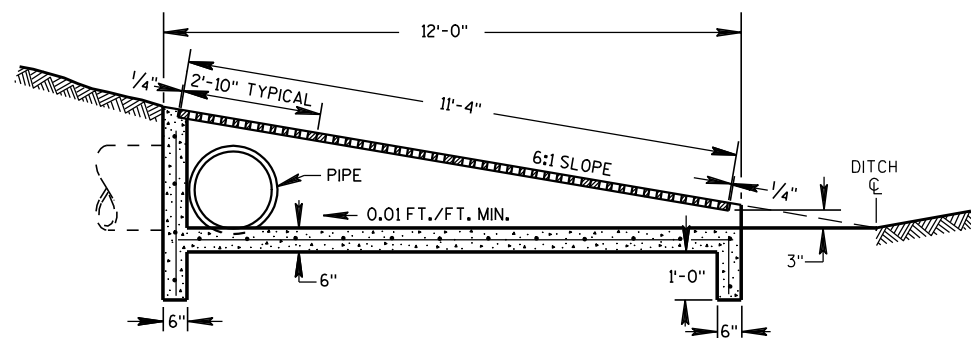


SECTION A-A

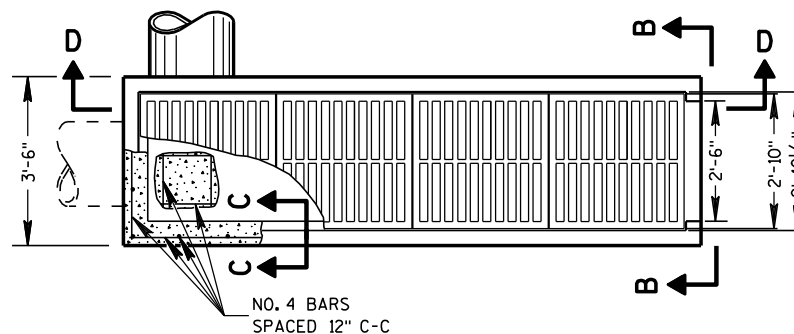


PLAN VIEW

INLETS MEDIAN 3 GRATE



SECTION D-D



PLAN VIEW

INLETS MEDIAN 4 GRATE

GENERAL NOTES

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

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

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 3G-MS", ETC. THE FIRST NUMBER AND LETTER DENOTE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DENOTE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

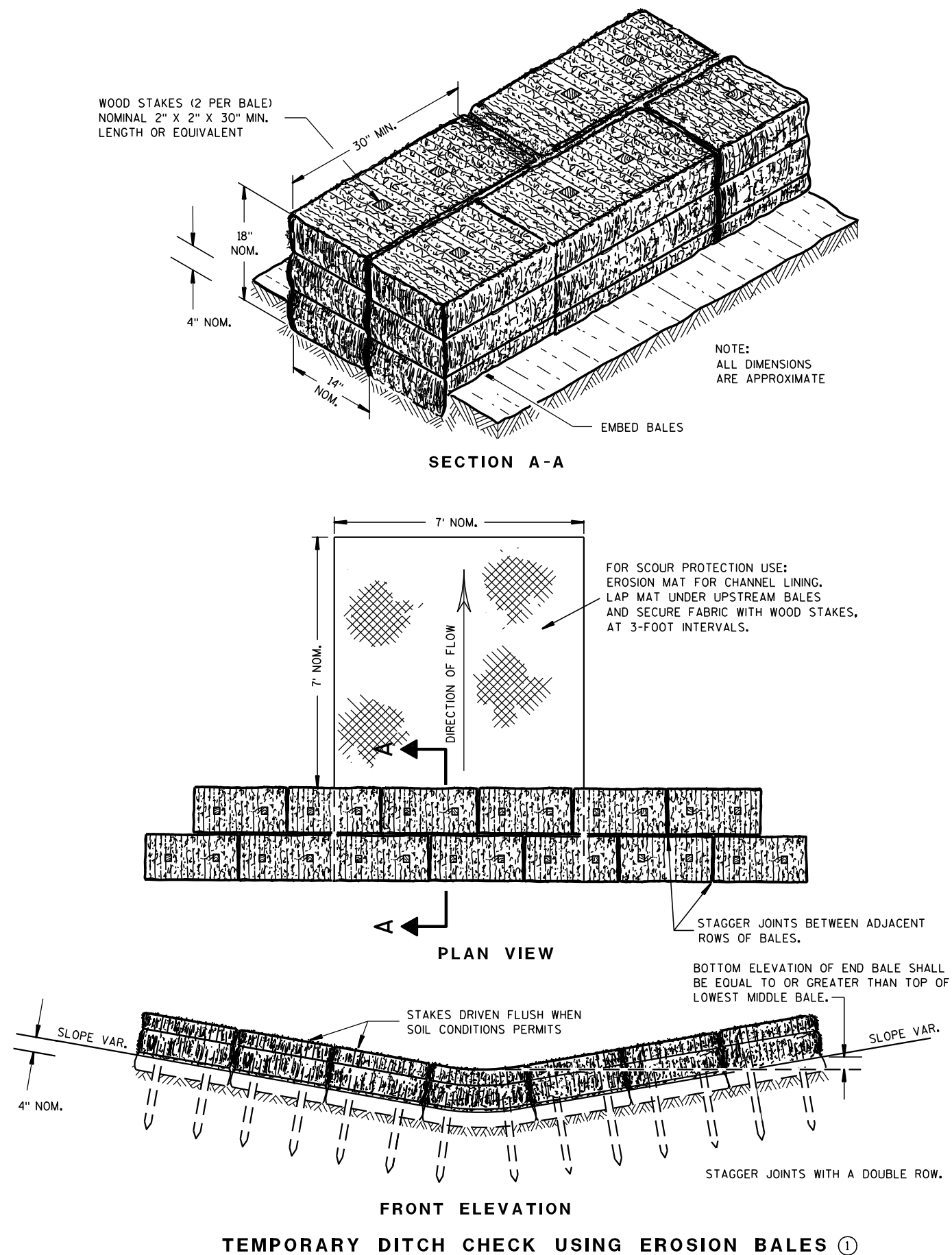
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

INLETS MEDIAN 3 AND 4 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

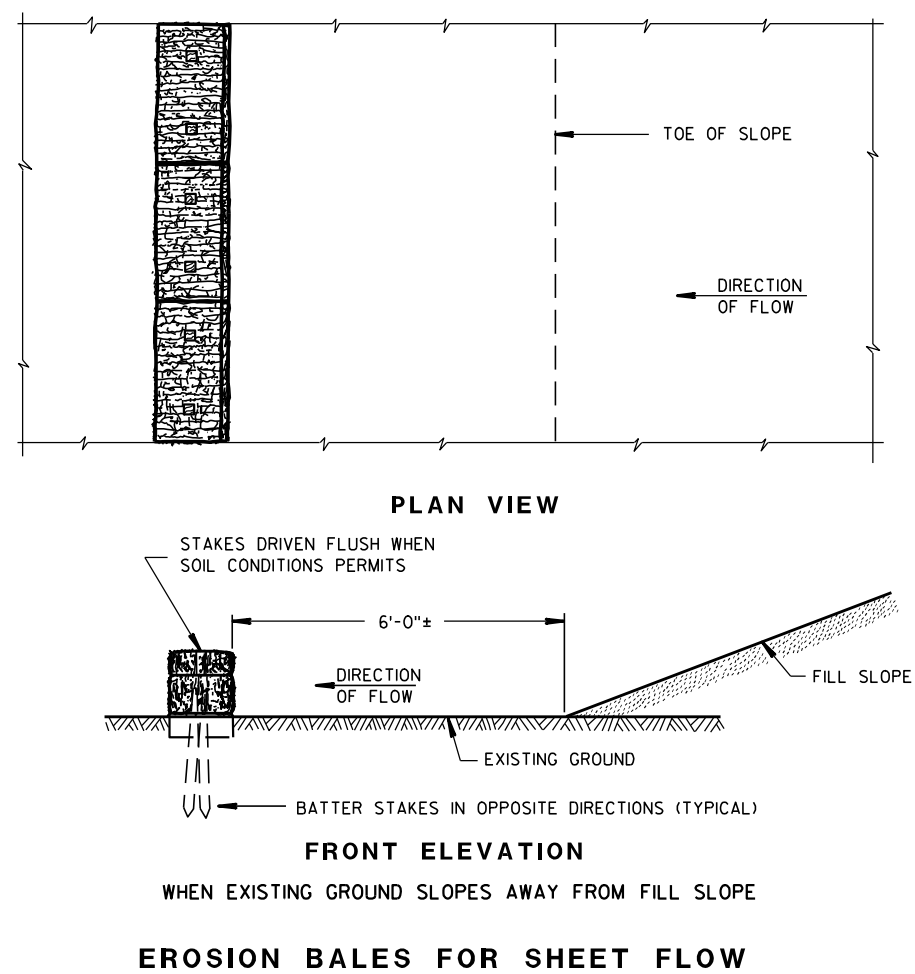
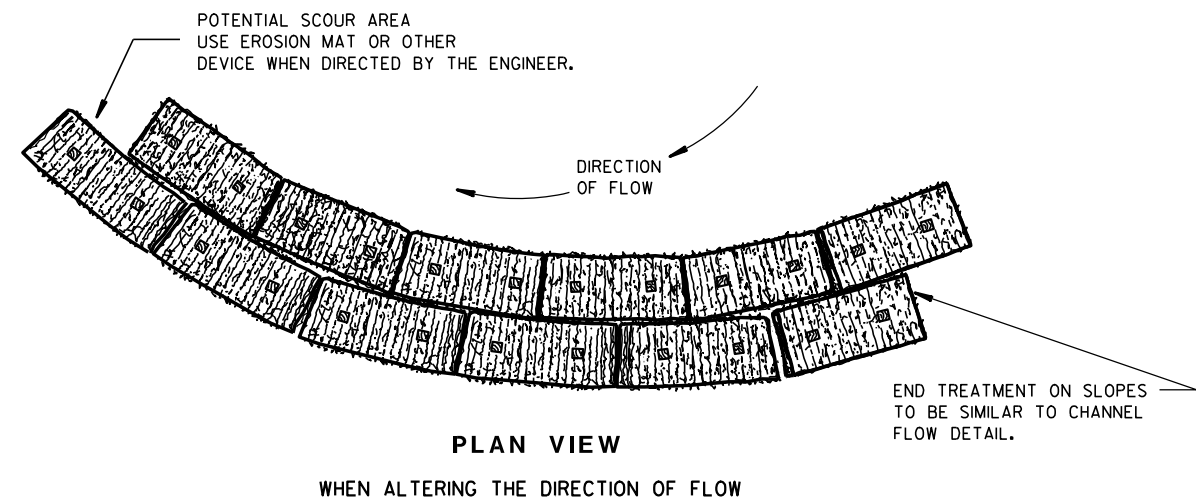
APPROVED
6/5/2012 DATE /S/ Jerry H. Zogg
ROADWAY STANDARDS DIVISION ENGINEER 118
FHWA



GENERAL NOTES

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

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

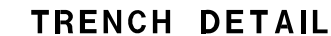
APPROVED

6/04/02
DATE/S/ Beth Connolly
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



- 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 1½" X 1½" 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

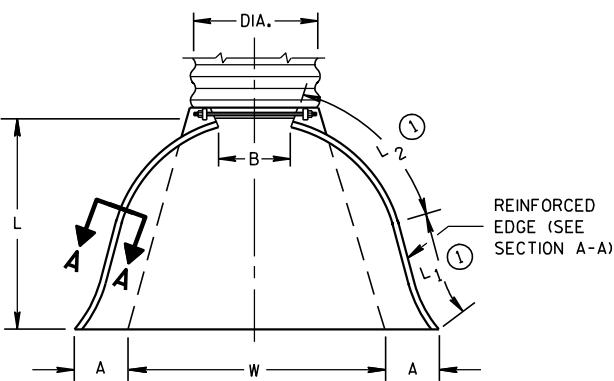
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

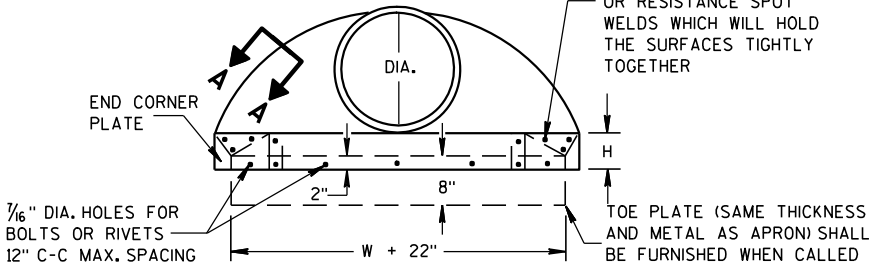
METAL APRON ENDWALLS											
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060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

* EXCEPT CENTER PANEL
SEE GENERAL NOTES



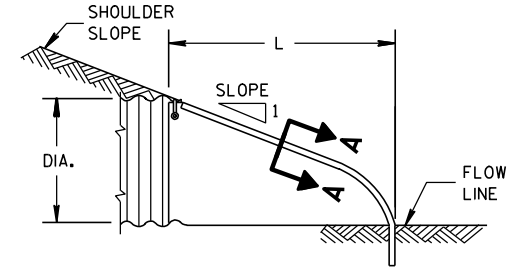
PLAN VIEW

END CORNER PLATES MAY
BE FASTENED TO APRON
PROPER BY BOLTS, RIVETS,
OR RESISTANCE SPOT
WELDS WHICH WILL HOLD
THE SURFACES TIGHTLY
TOGETHER



END VIEW

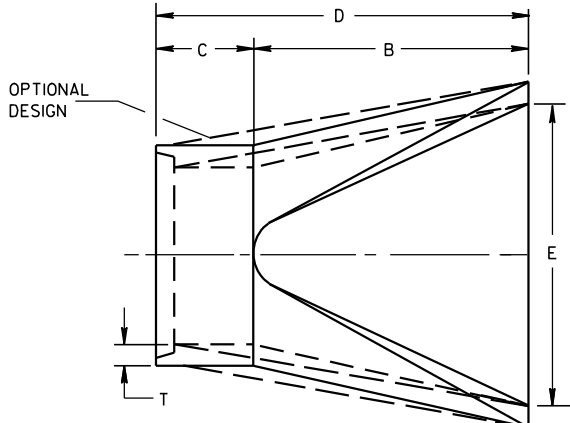
TOE PLATE (SAME THICKNESS
AND METAL AS APRON) SHALL
BE FURNISHED WHEN CALLED
FOR ON THE PLANS



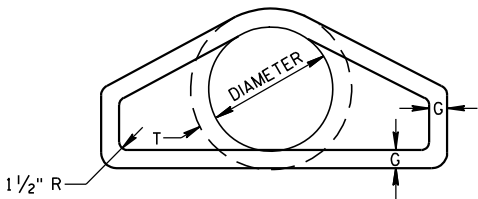
SIDE ELEVATION
METAL ENDWALLS

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

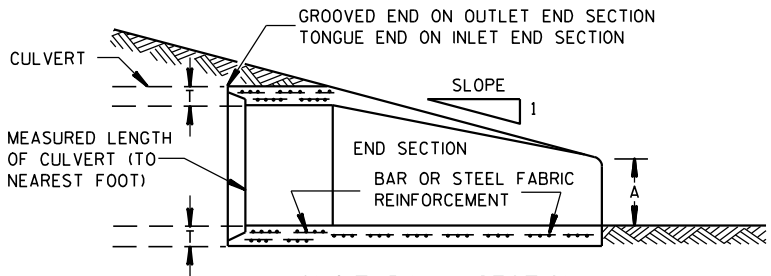
* MINIMUM
** MAXIMUM



PLAN

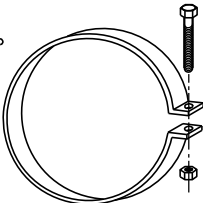


END VIEW

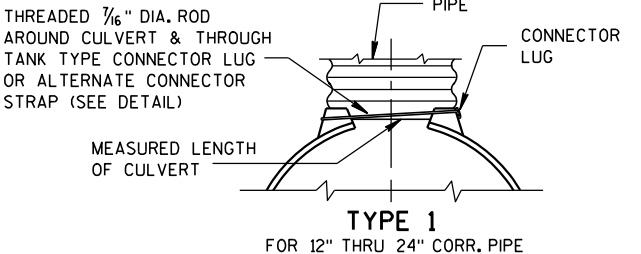


LONGITUDINAL SECTION
CONCRETE ENDWALLS

1" WIDE, 12 GA. (0.109"
THICK) GALVANIZED STRAP
WITH STANDARD 6" X 1/2"
BAND BOLT AND NUT

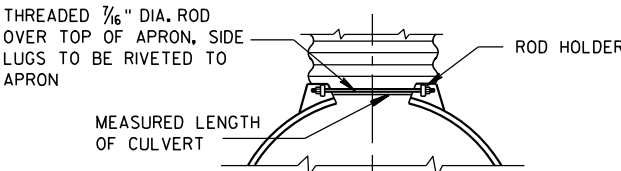


ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



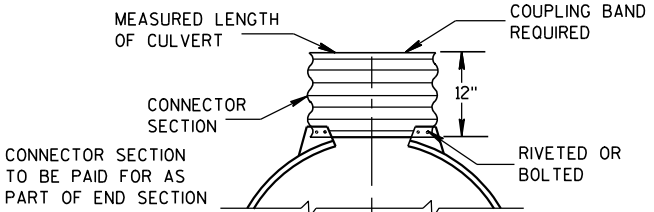
TYPE 1

FOR 12" THRU 24" CORR. PIPE



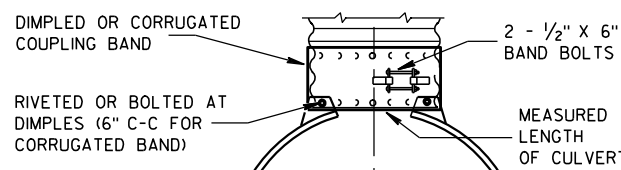
TYPE 2

FOR 30" THRU 96" CORR. PIPE



TYPE 3

FOR 42" THRU 96" CORR. PIPE



TYPE 5

ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

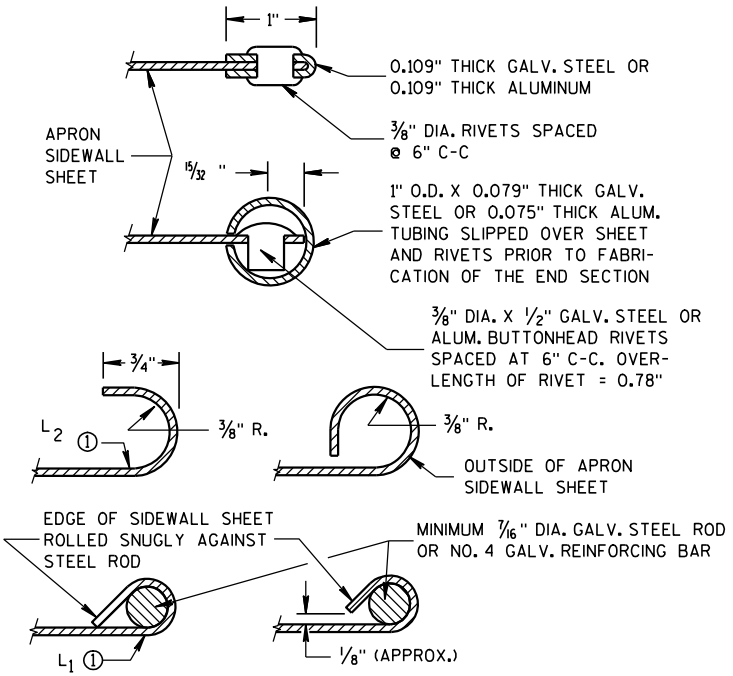
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL,
AND CORRUGATED BAND FITS INSIDE ENDWALL.
DIMPLED BAND MAY BE USED WITH HELICALLY
CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

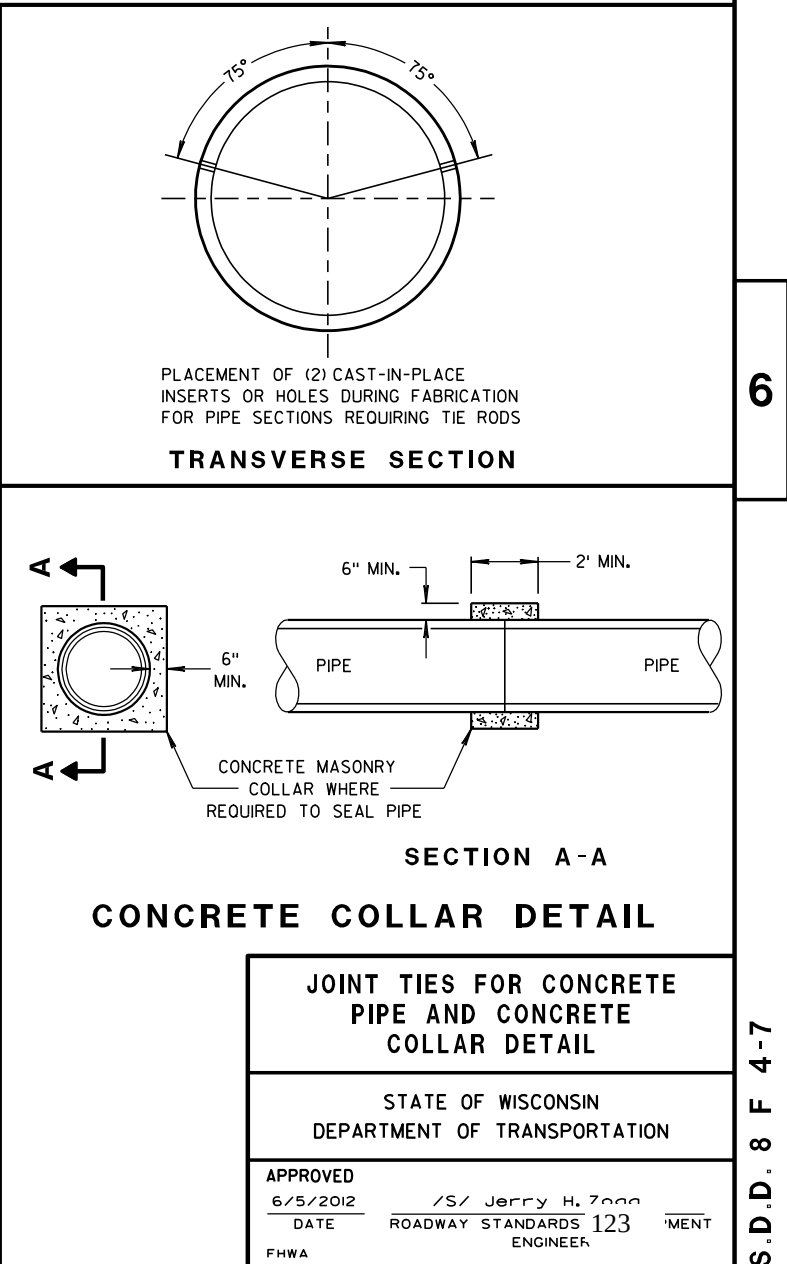
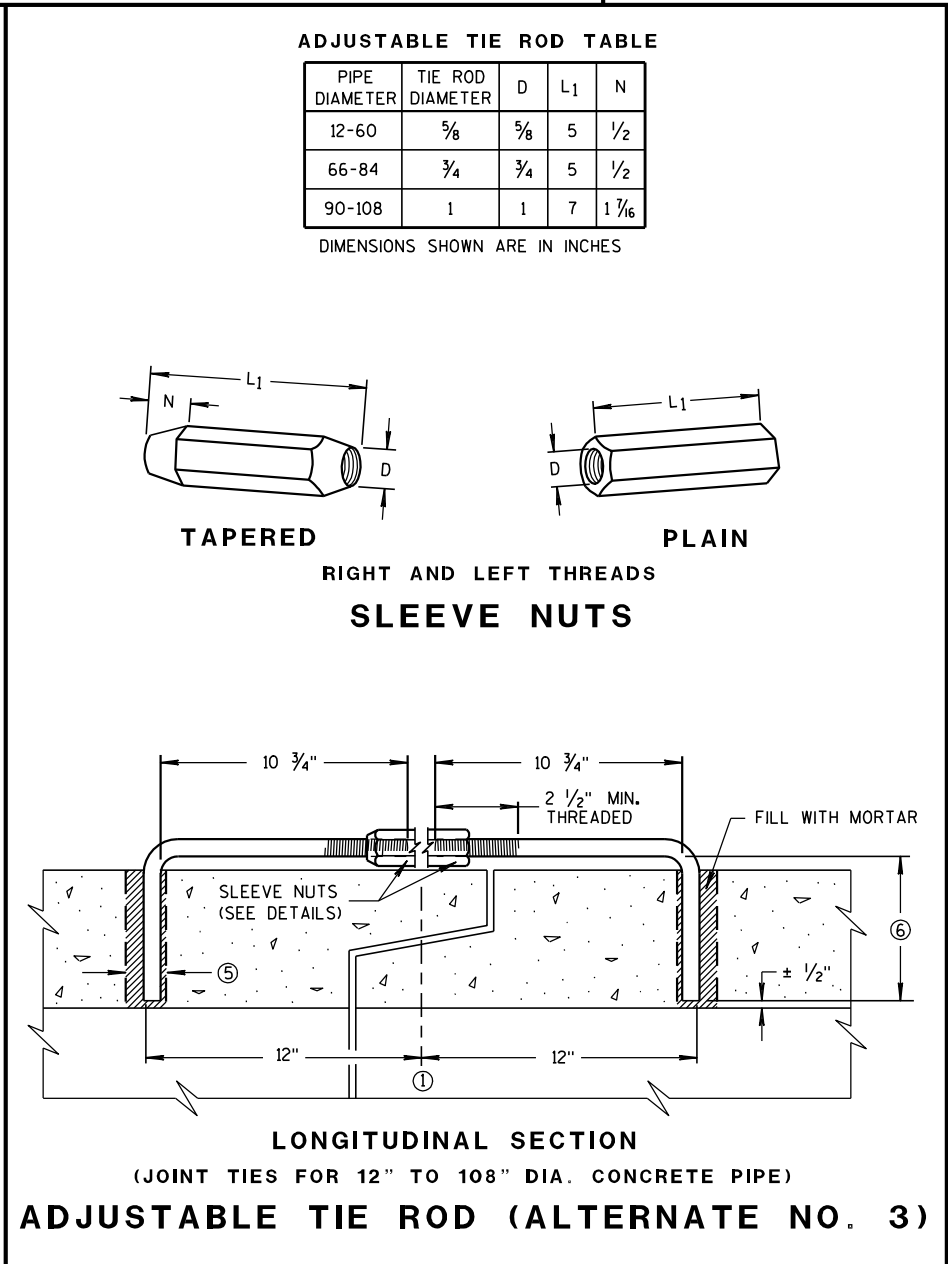
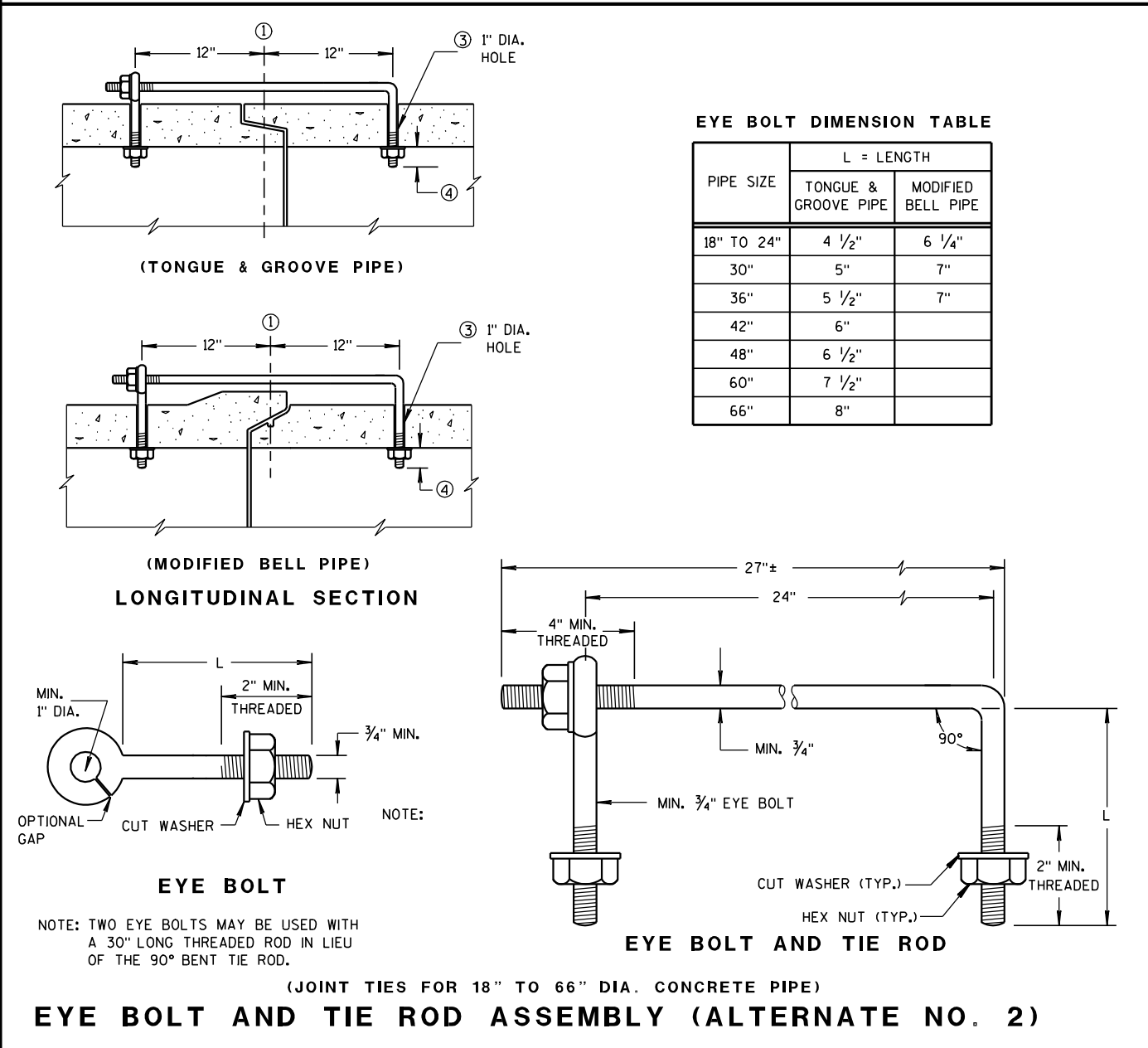
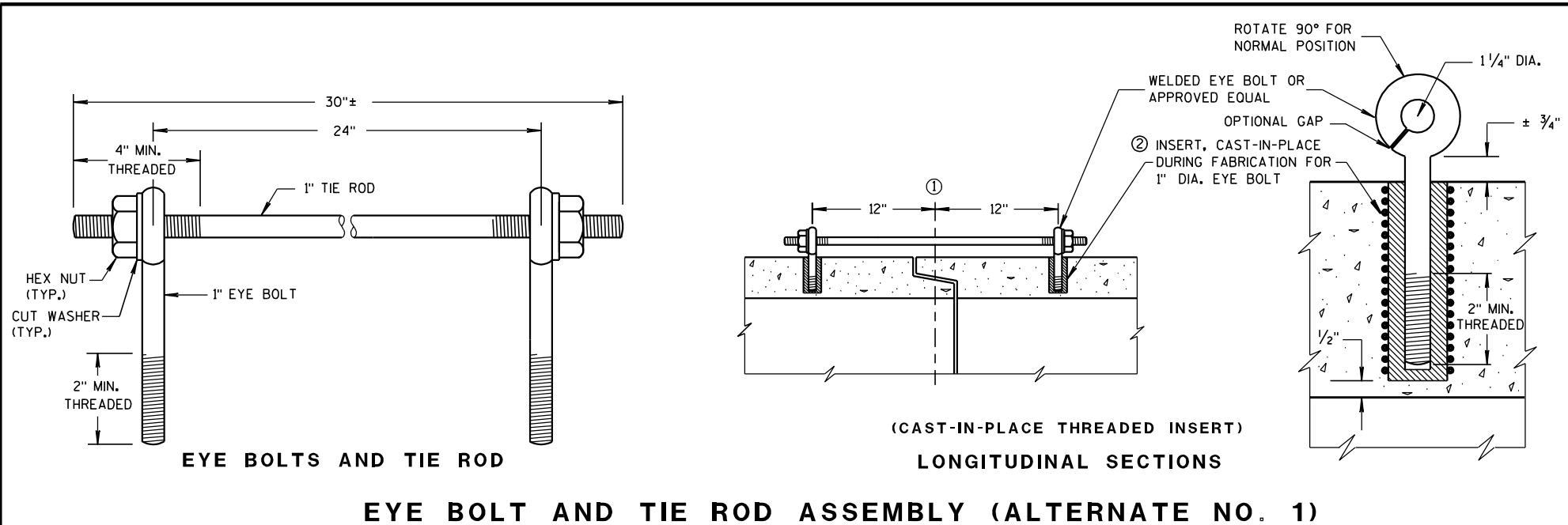
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT
TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT
TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

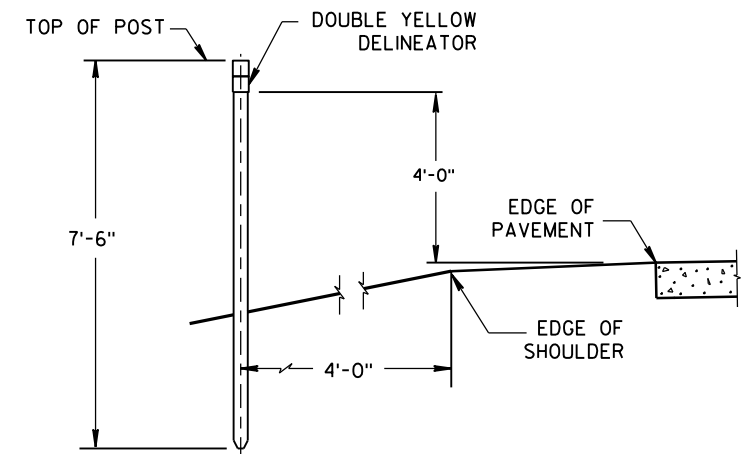
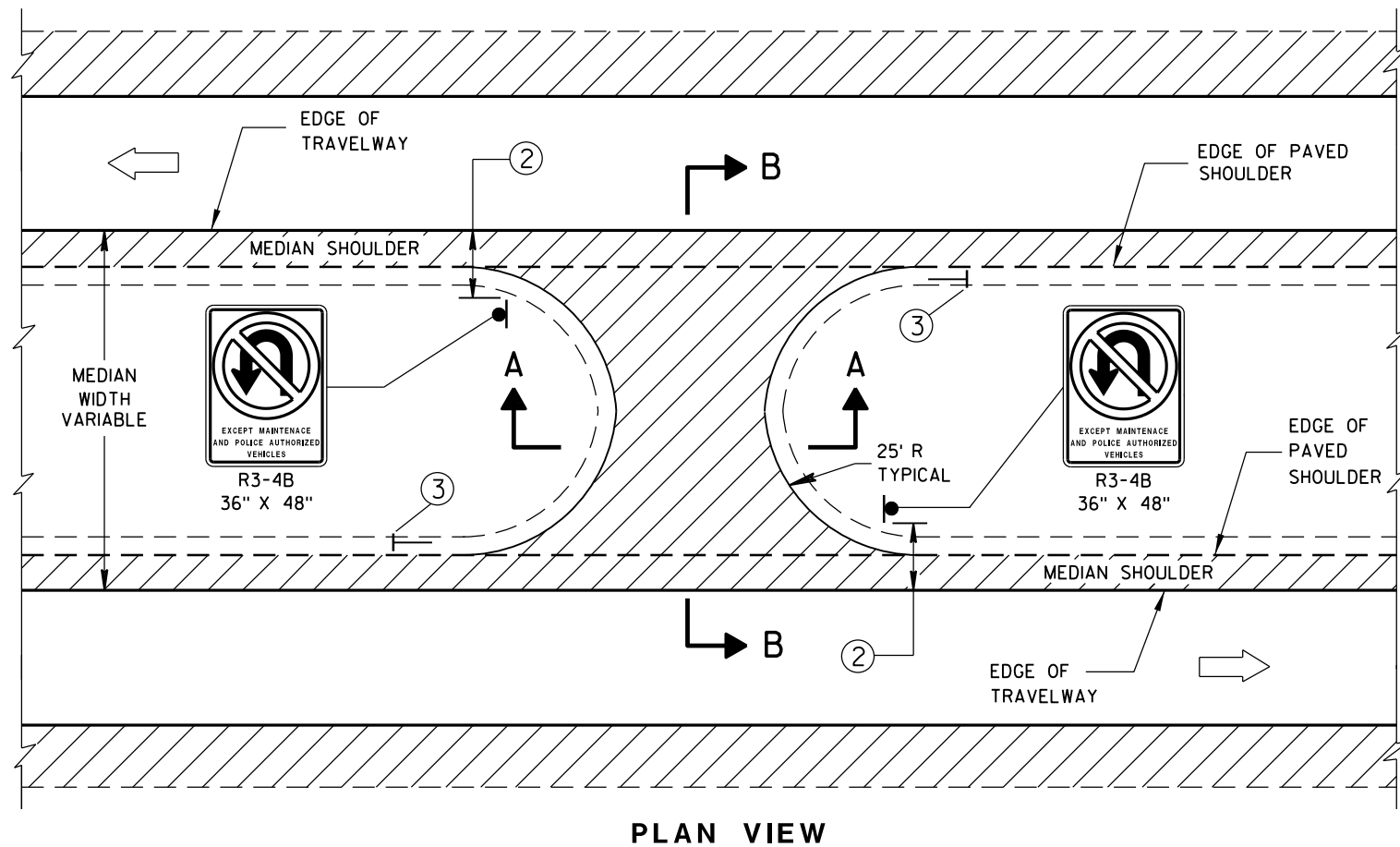
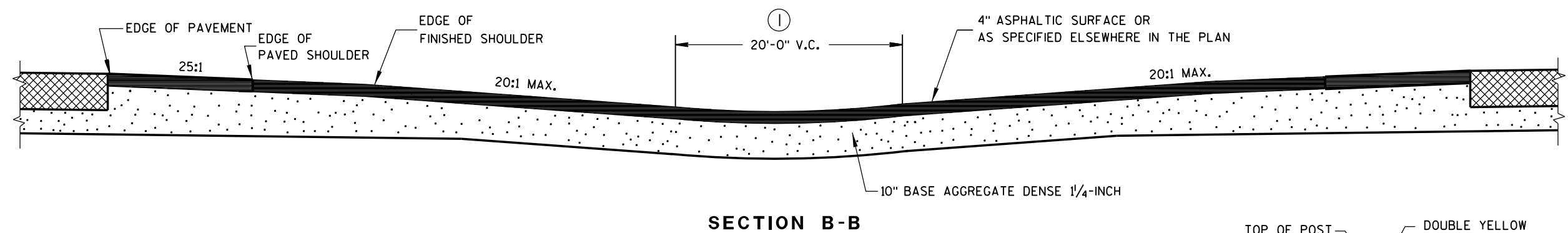
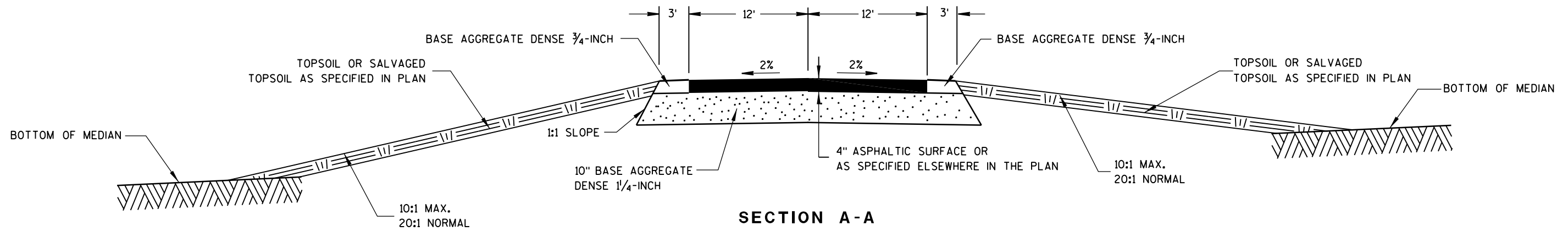
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED
INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94
DATE
/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT
NEER
FHWA





GENERAL NOTES

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

- ① ADJUST VERTICAL CURVE LOCATION Laterally TO MAINTAIN 20:1 MAX.
- ② SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.
- ③ INSTALL DOUBLE YELLOW DELINEATOR. SEE STANDARD DETAIL DRAWING 15A2.

MAINTENANCE CROSSOVER
FOR FREEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013

DATE

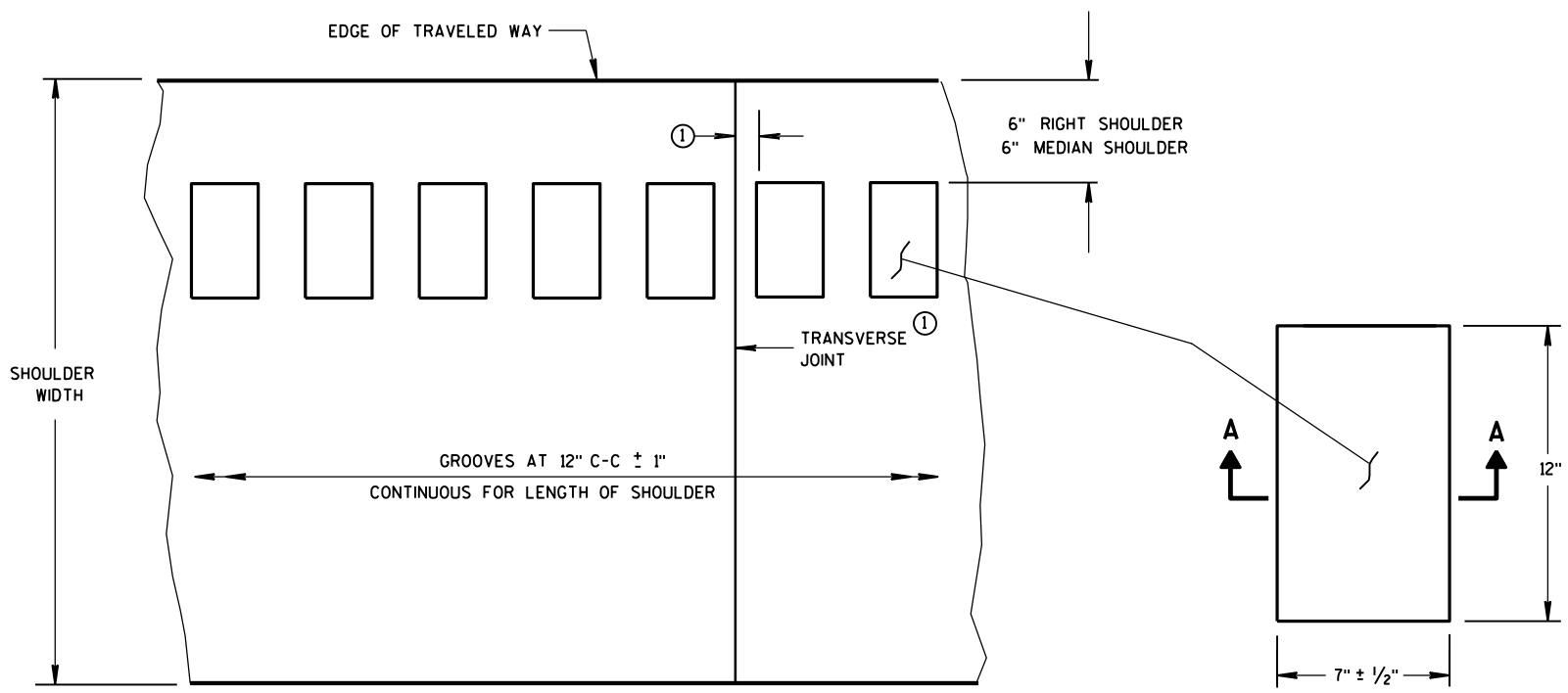
FHWA

/S/ Jerry H. Zogg

ROADWAY STANDARDS ENGINEER

124

NT



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

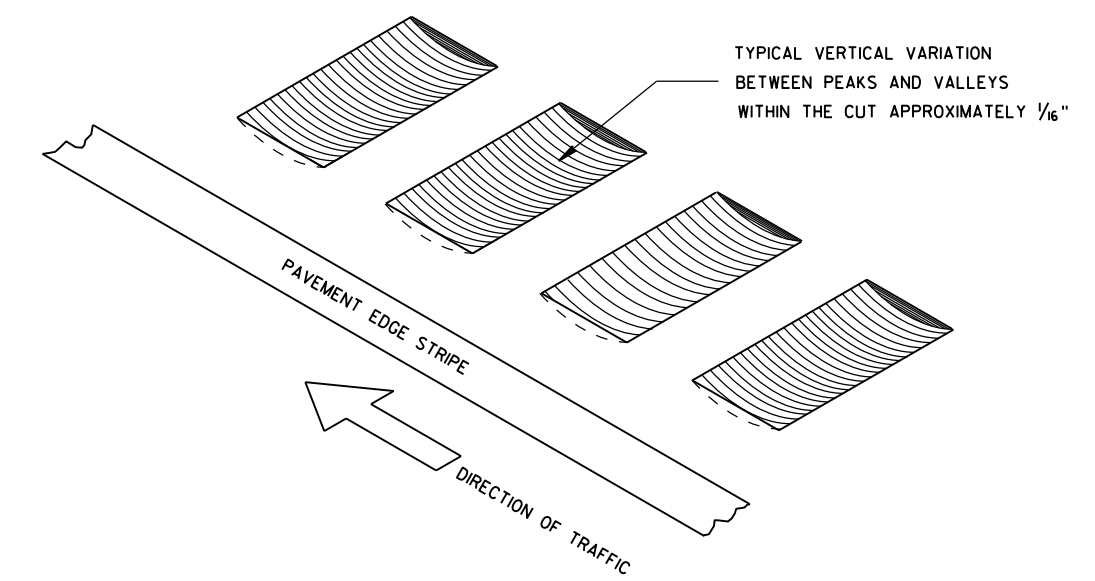
GENERAL NOTES

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

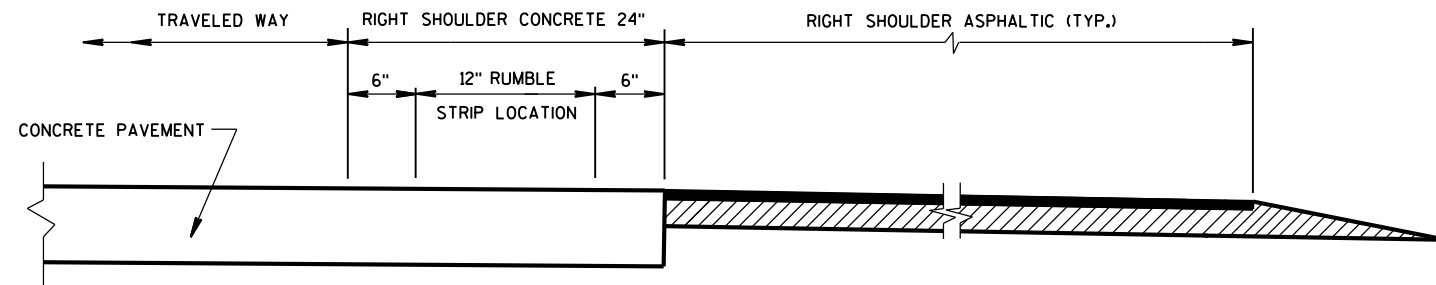
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

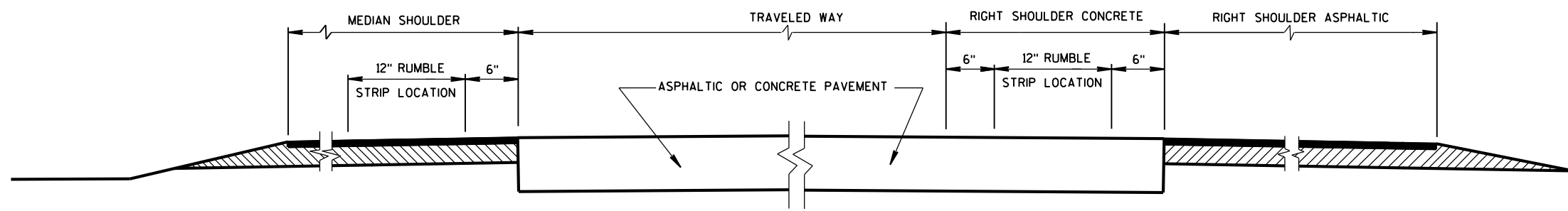
① CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



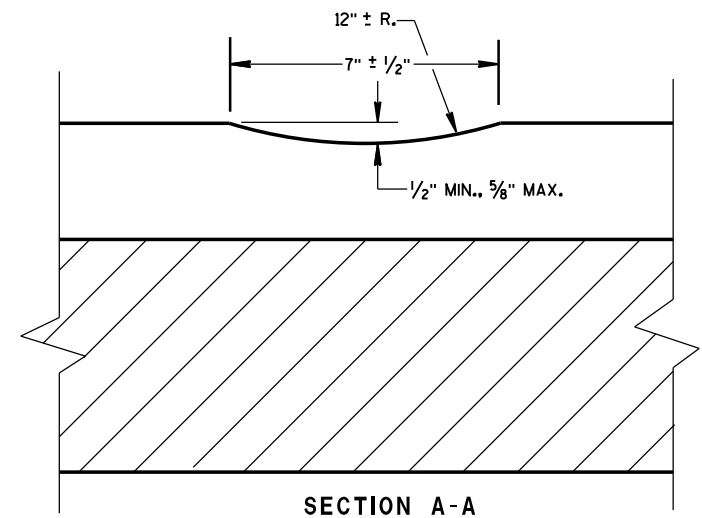
ISOMETRIC



SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



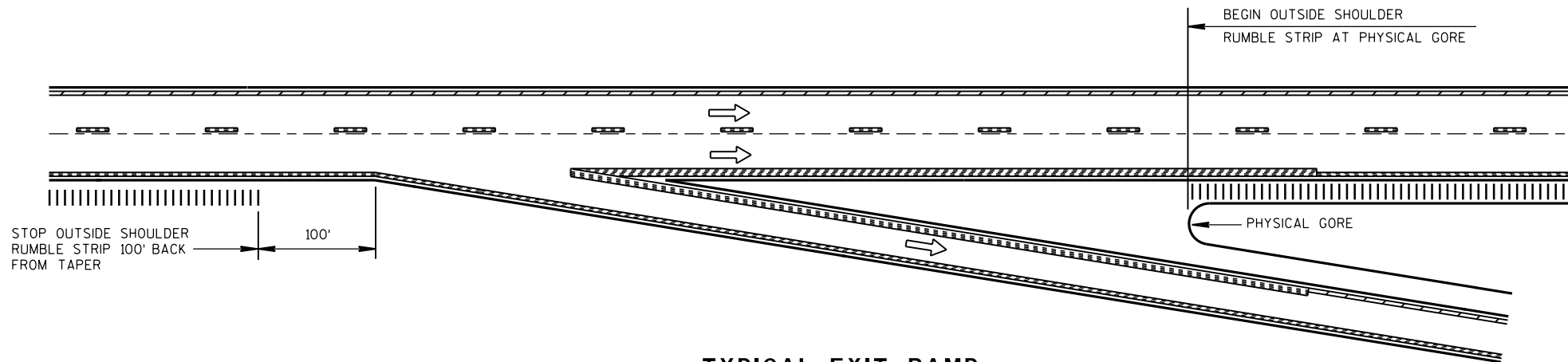
SECTION VIEW
TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS
IN RURAL DIVIDED HIGHWAYS
(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP,
MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 125



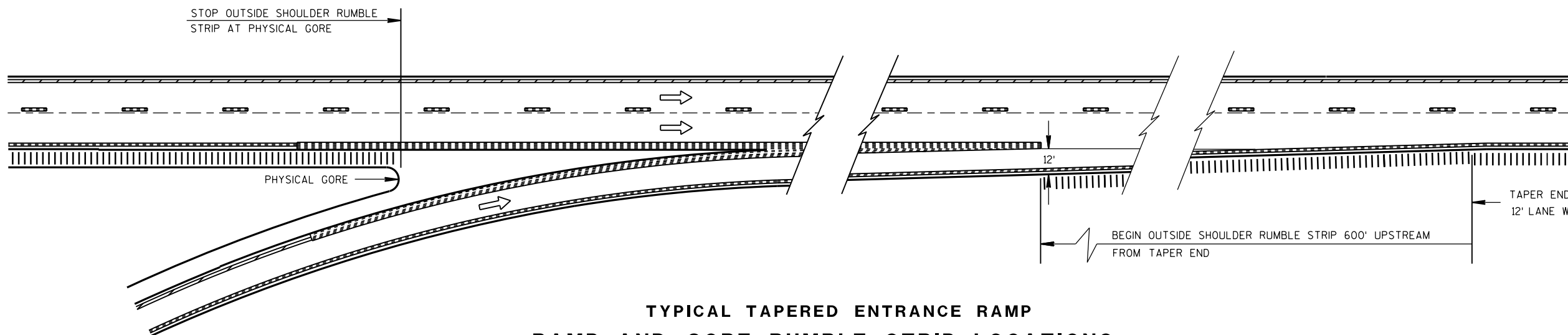
TYPICAL EXIT RAMP

NOTES:

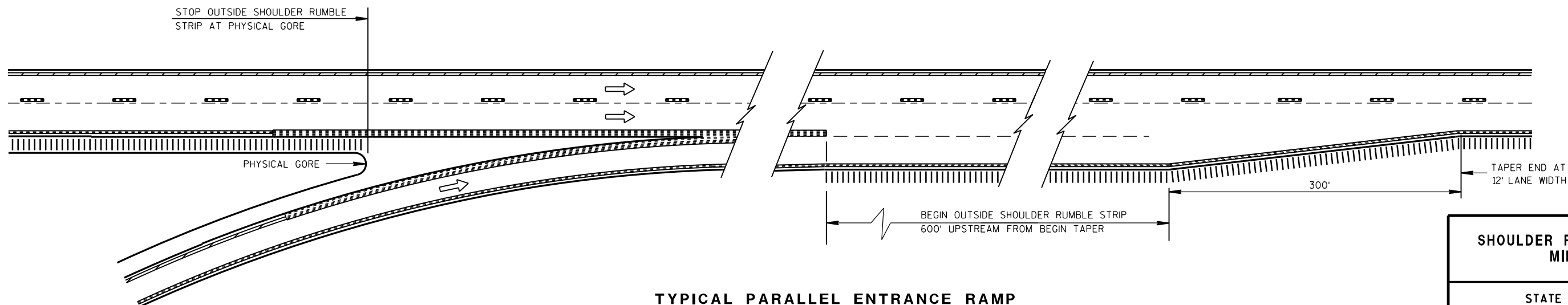
NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (→)
SHOWS DIRECTION OF TRAVEL



**TYPICAL TAPERED ENTRANCE RAMP
RAMP AND GORE RUMBLE STRIP LOCATIONS**

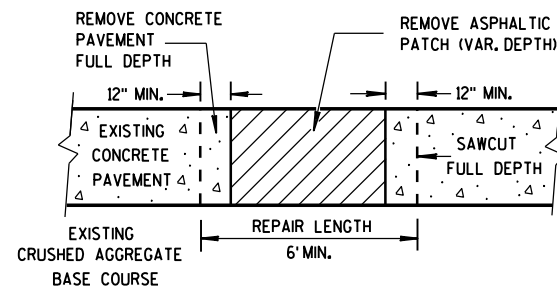
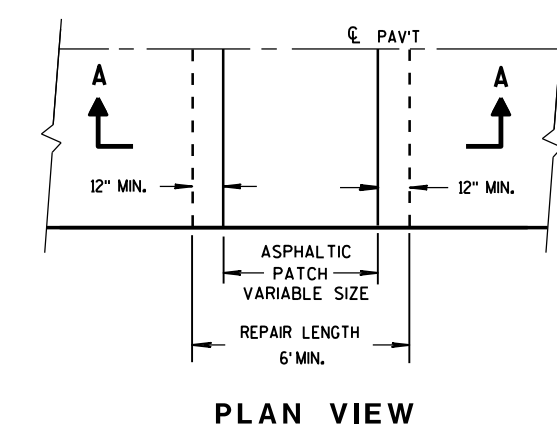


**TYPICAL PARALLEL ENTRANCE RAMP
RAMP AND GORE RUMBLE STRIP LOCATIONS**

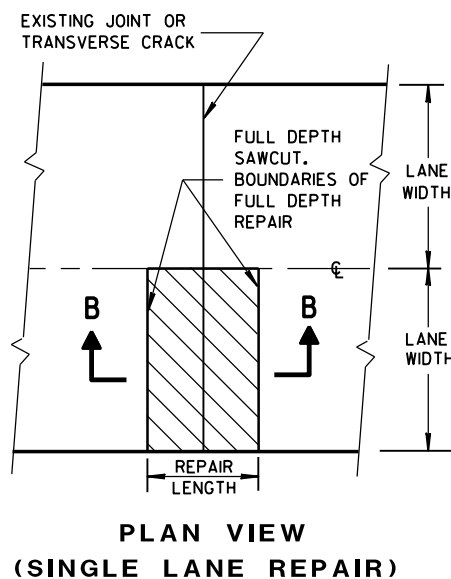
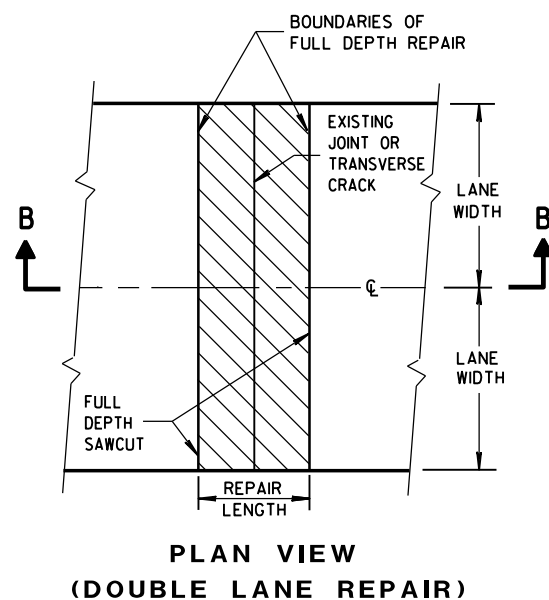
**SHOULDER RUMBLE STRIP,
MILLING**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE 12/17/2012 /S/ Jerry H. Zoagg
ROADWAY STANDARDS ENGINEER 126 ENT
FHWA



SECTION A-A
HMA PATCH REMOVAL



FULL DEPTH CONCRETE PAVEMENT REMOVAL

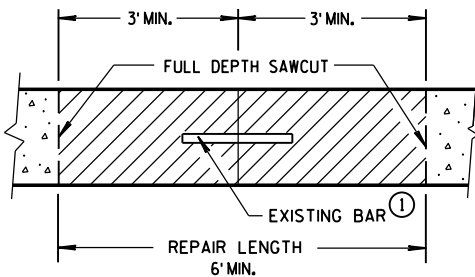
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES. ADDITIONAL SAW CUTS ARE NOT PAID FOR BY THE DEPARTMENT.

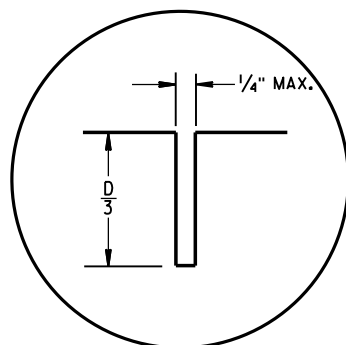
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

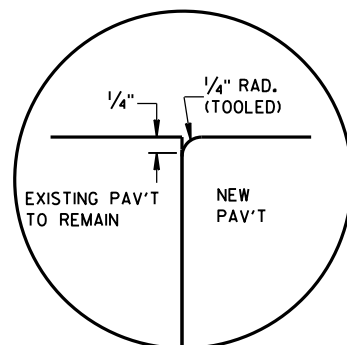
① DOWEL BARS MIGHT NOT EXIST.



SECTION B-B
CONCRETE REMOVAL

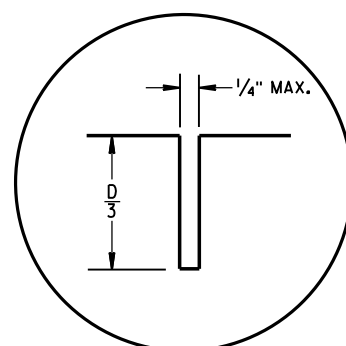


C1

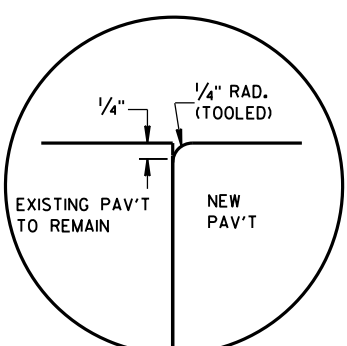


C2

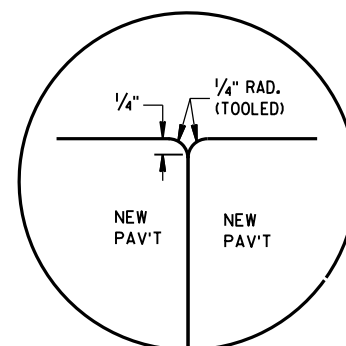
TRANSVERSE JOINTS



L1



L2



L3

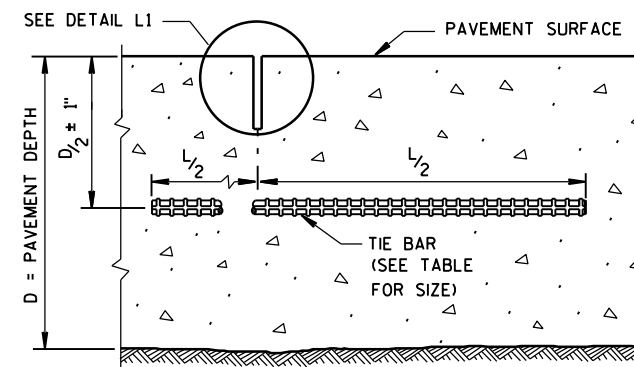
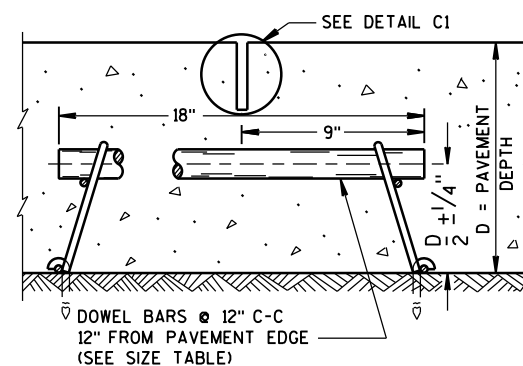
LONGITUDINAL JOINTS

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

SECTION C-C
SAWED LONGITUDINAL JOINTSECTION F-F
CONTRACTION JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

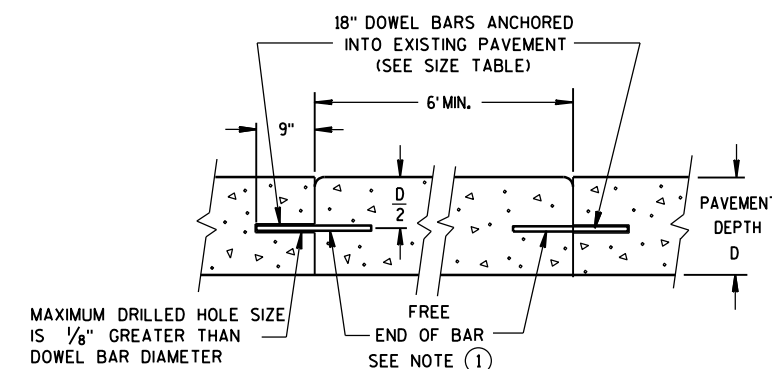
CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

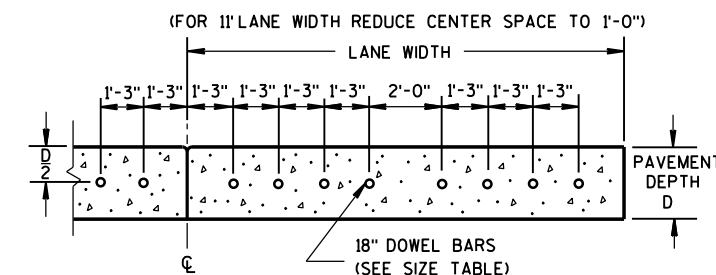
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

- ① APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



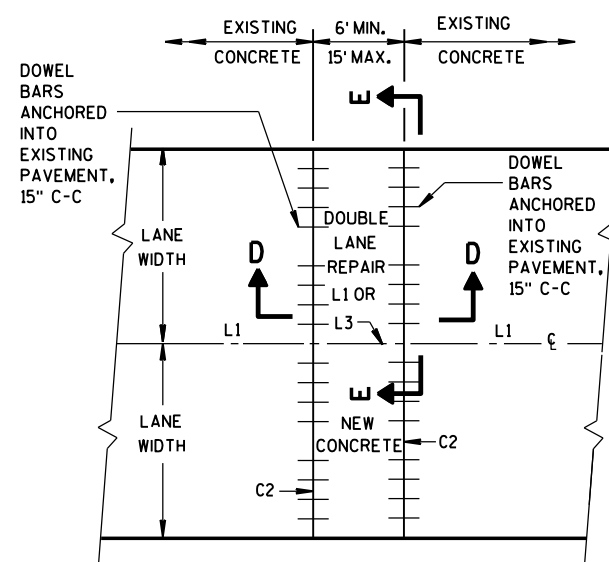
SECTION D-D

SECTION E-E
DRILLED DOWEL BAR CONSTRUCTION JOINTPAVEMENT DEPTH, DOWEL BAR SIZE
AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6", 6 1/2"	NONE	12'
7", 7 1/2"	1"	14'
8", 8 1/2"	1 1/4"	15'
9", 9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'

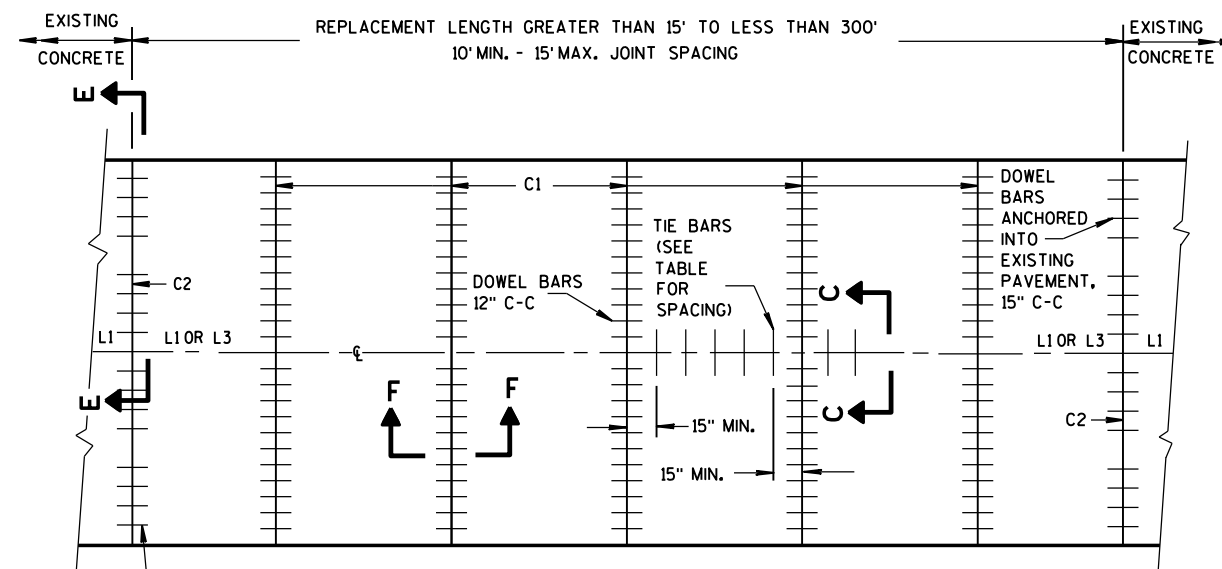
CONCRETE PAVEMENT
REPAIR AND REPLACEMENT

STATE OF WISCONSIN
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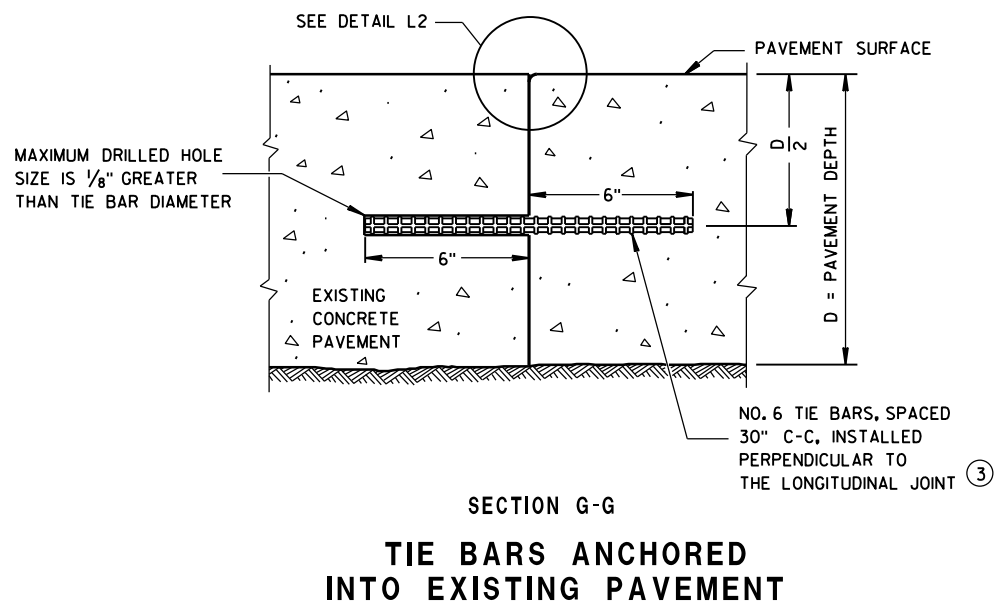
PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



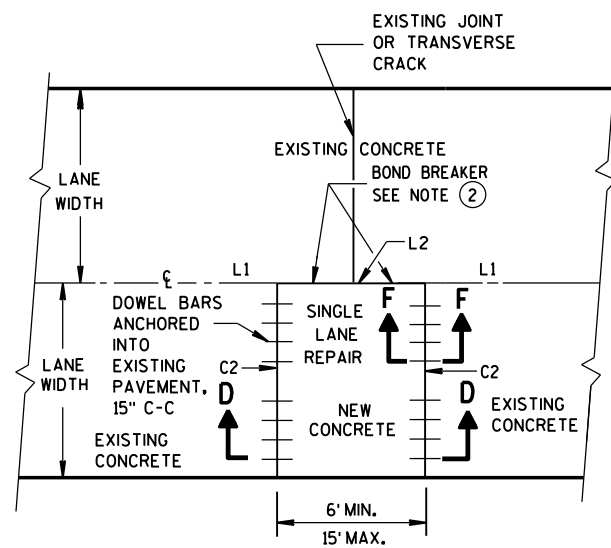
PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT

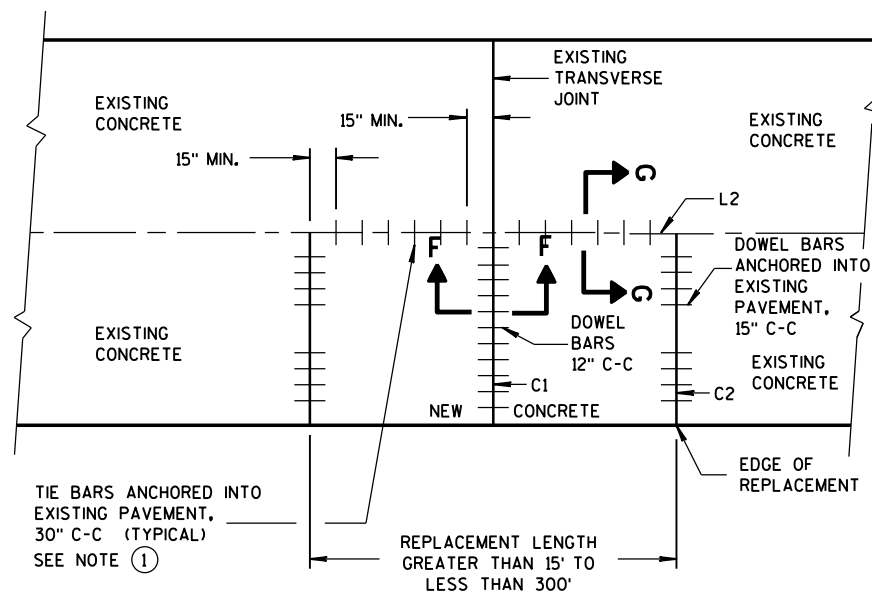


GENERAL NOTES

- ① WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- ② USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
- ③ ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW
**SINGLE LANE
CONCRETE PAVEMENT REPAIR**



PLAN VIEW
**SINGLE LANE
CONCRETE PAVEMENT REPLACEMENT**

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

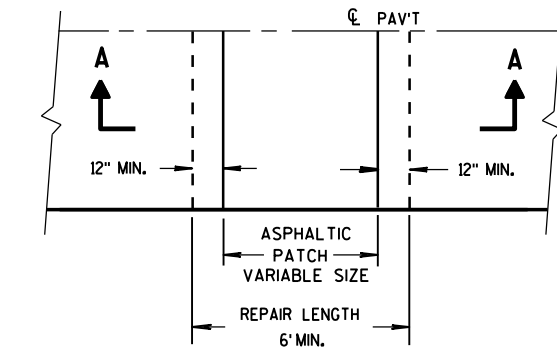
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

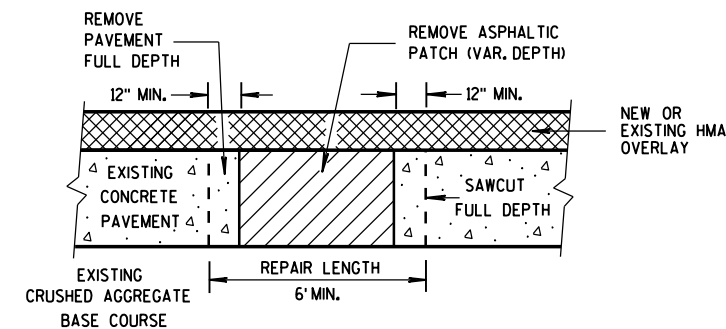
June, 2015
DATE

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PAVEMENT SUPER 129

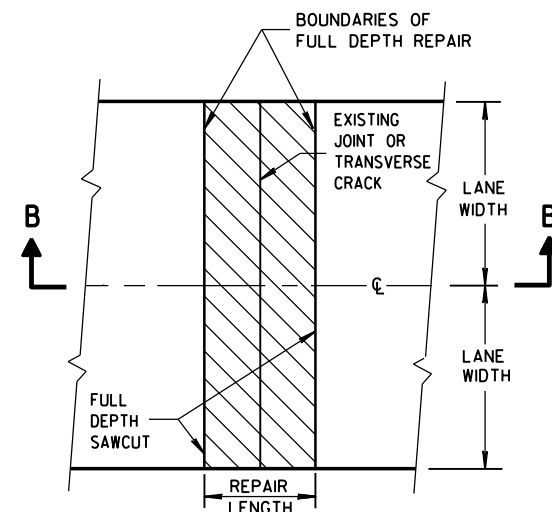
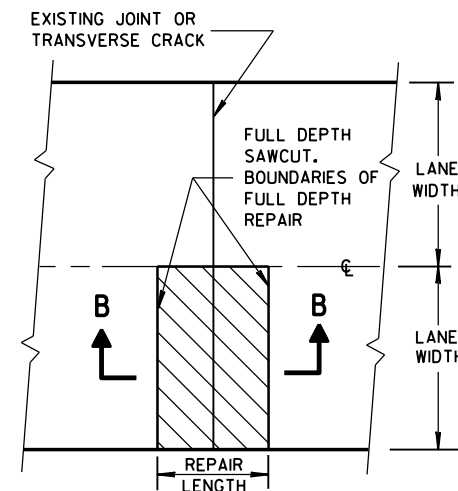


PLAN VIEW

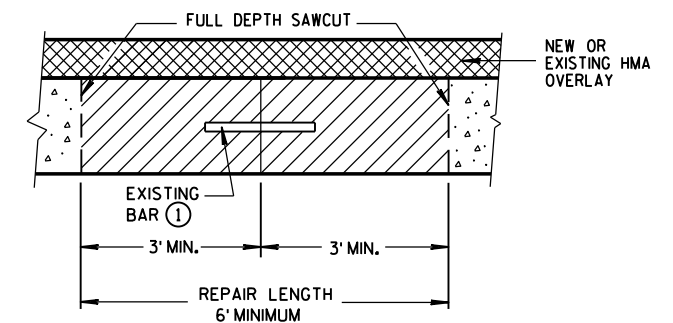


SECTION A-A

HMA PATCH REMOVAL

PLAN VIEW
(DOUBLE LANE REPAIR)PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL

SECTION B-B
CONCRETE REMOVAL

GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES. ADDITIONAL SAW CUTS ARE NOT PAID FOR BY THE DEPARTMENT.

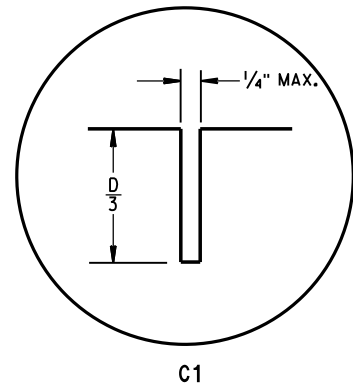
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

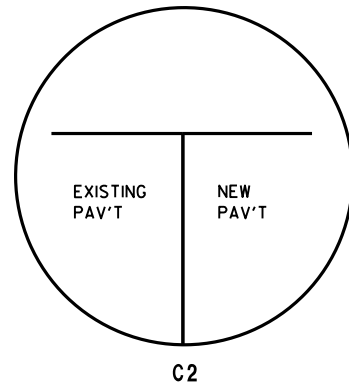
① DOWEL BARS MIGHT NOT EXIST.

BASE PATCHING CONCRETE

STATE OF WISCONSIN
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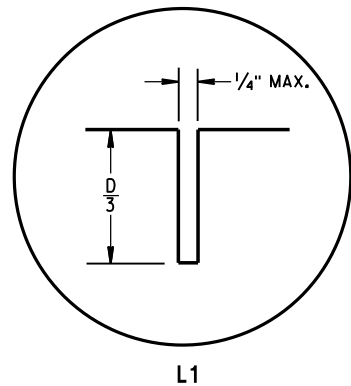


C1

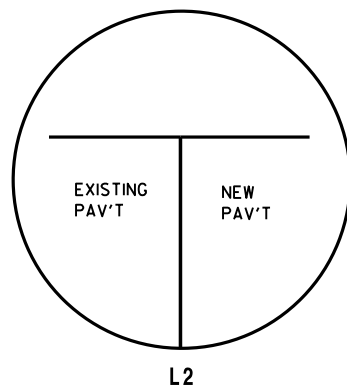


C2

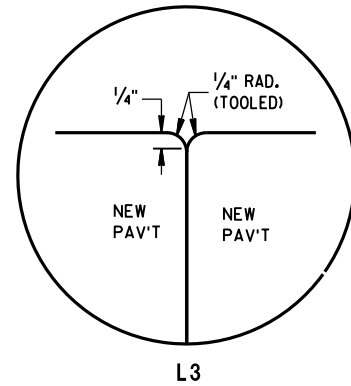
TRANSVERSE JOINTS



L1

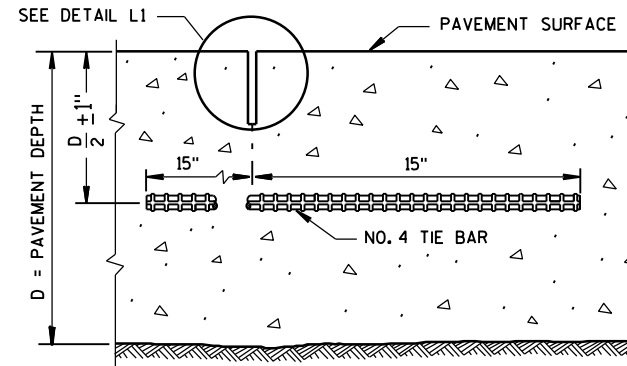


L2

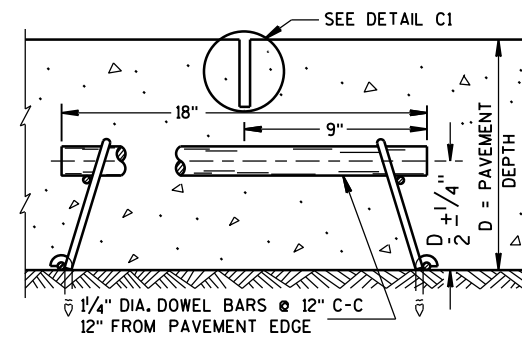


L3

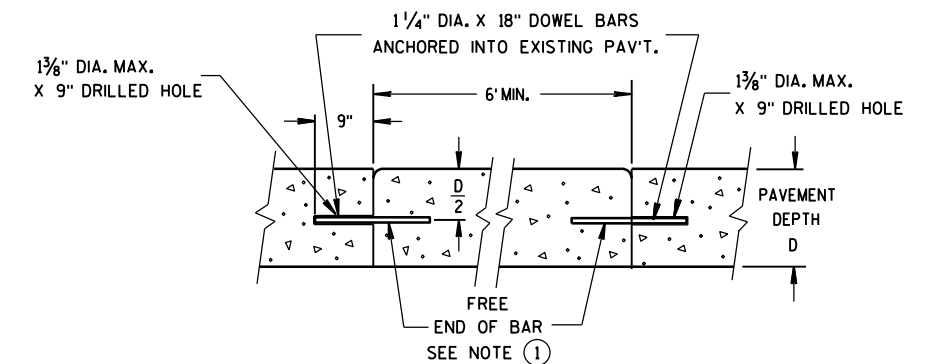
LONGITUDINAL JOINTS



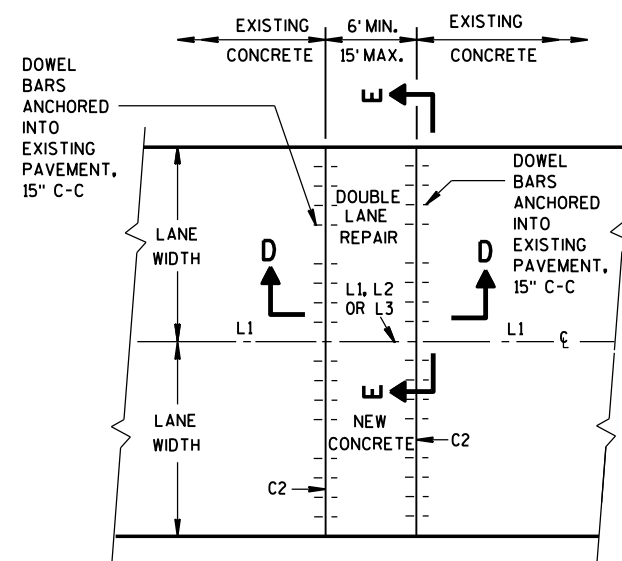
SECTION C-C
SAWED LONGITUDINAL JOINT



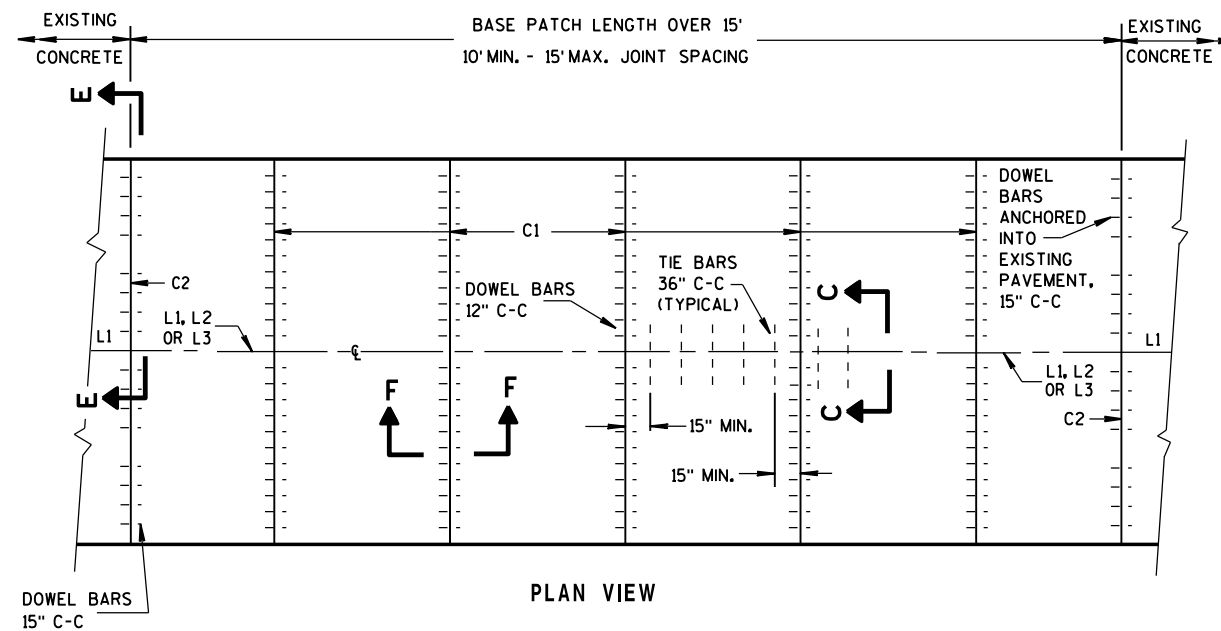
SECTION F-F
CONTRACTION JOINT



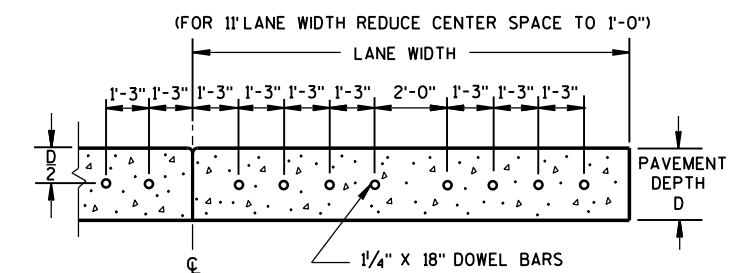
SECTION D-D



PLAN VIEW
MULTI-LANE CONCRETE BASE PATCH
15' MAXIMUM LENGTH



PLAN VIEW
MULTI-LANE CONCRETE BASE PATCH
GREATER THAN 15' IN LENGTH



SECTION E-E
SPACING OF DOWEL BARS
ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

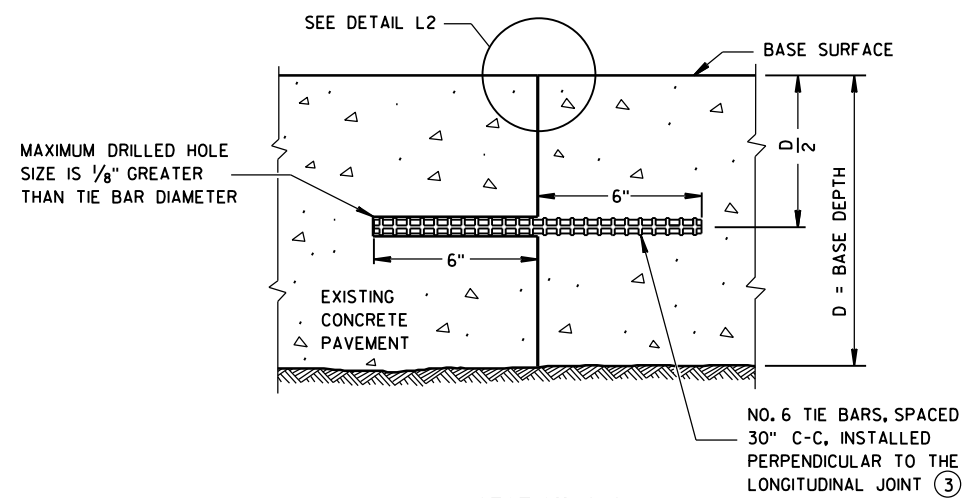
CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

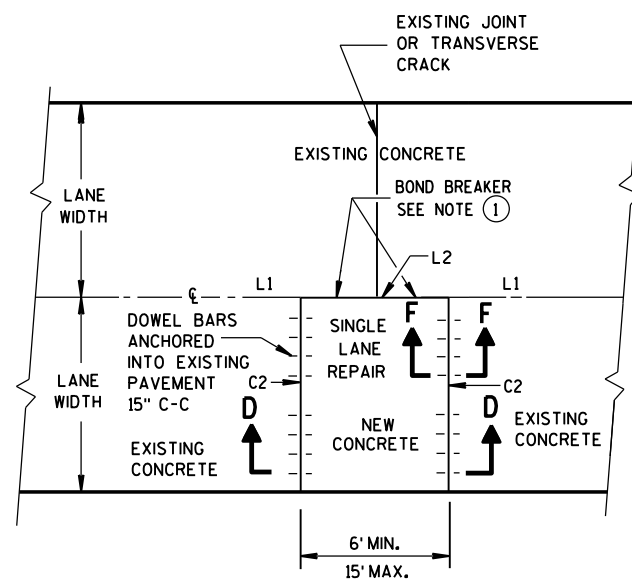
① APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



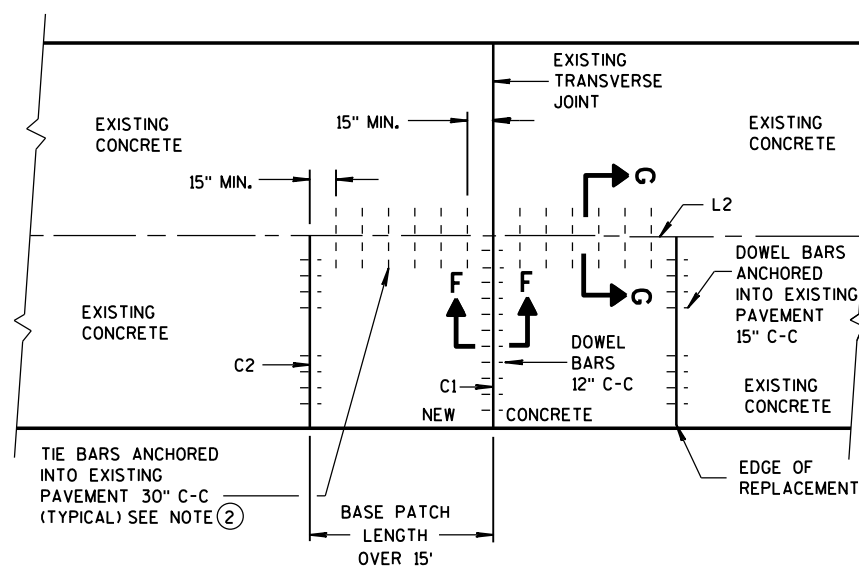
SECTION G-G
TIE BARS ANCHORED
INTO EXISTING PAVEMENT

GENERAL NOTES

- ① USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.
- ② WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- ③ ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW
SINGLE LANE CONCRETE BASE PATCH
15' MAXIMUM LENGTH

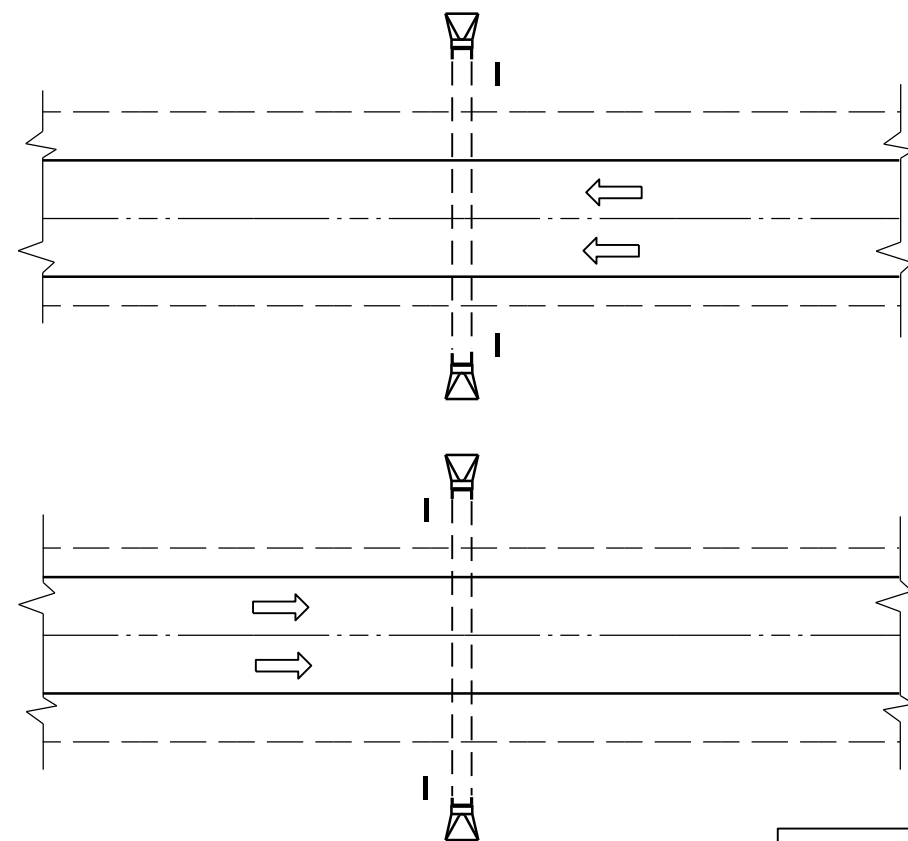


PLAN VIEW
SINGLE LANE CONCRETE BASE PATCH
GREATER THAN 15' IN LENGTH

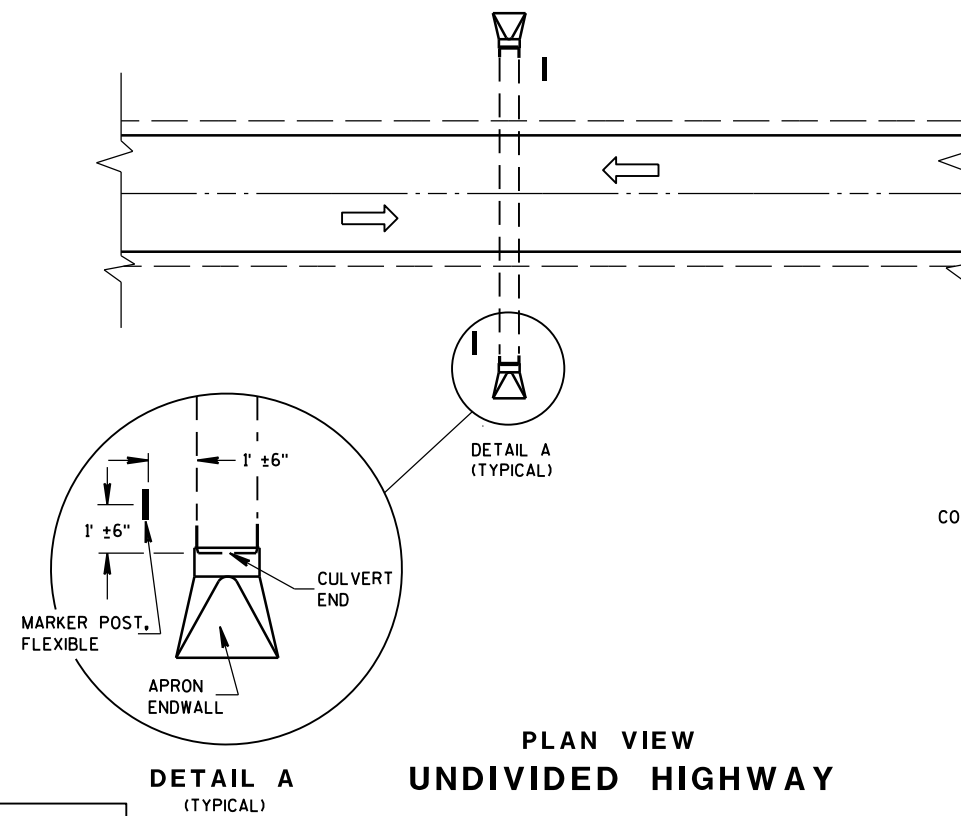
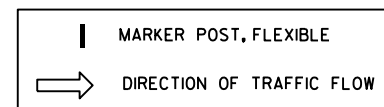
BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June, 2015 DATE /S/ Peter Kemp, P.E.
DATE PAVEMENT SUPER 132
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PLAN VIEW
DIVIDED HIGHWAY

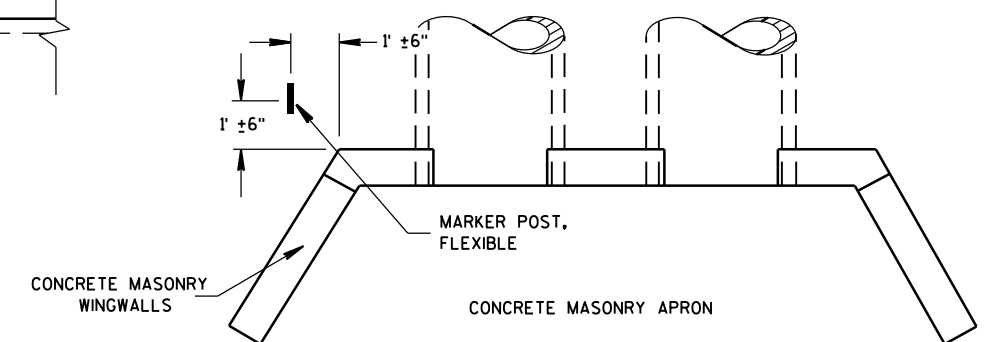


PLAN VIEW
UNDIVIDED HIGHWAY

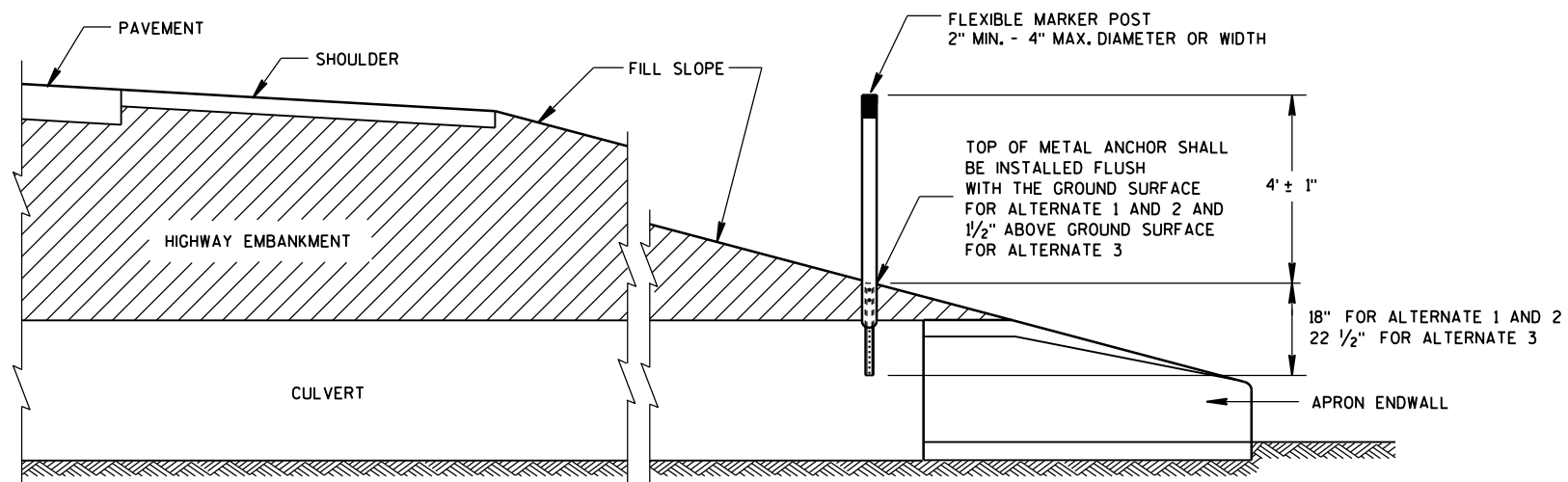
FLEXIBLE MARKER POST LOCATION

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.



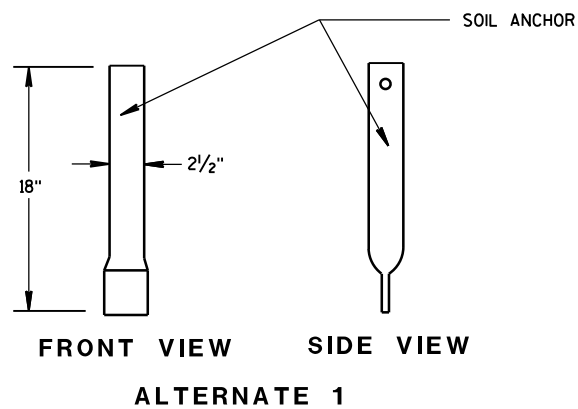
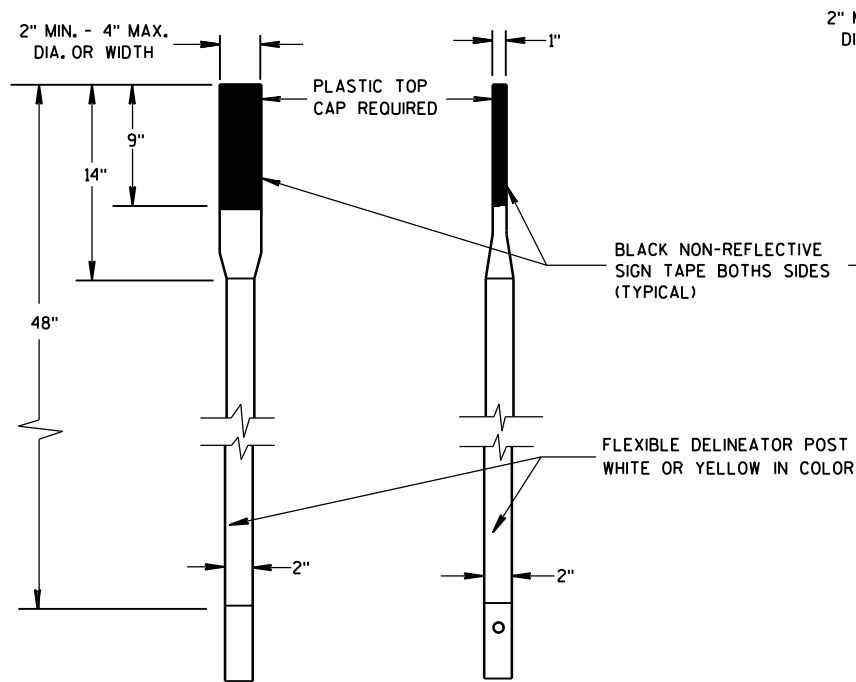
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



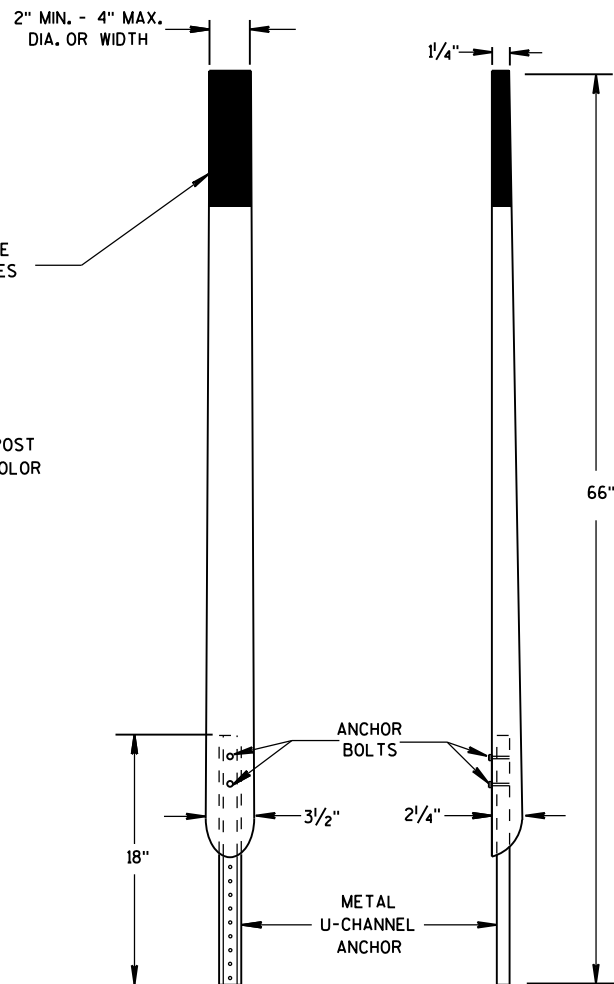
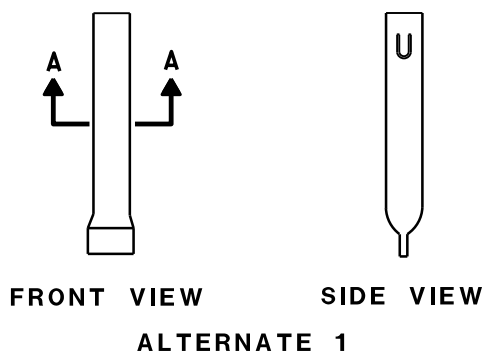
CROSS SECTION
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

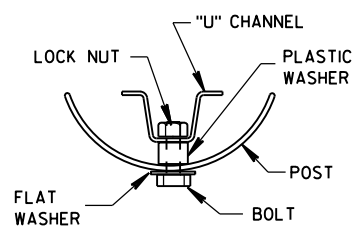
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 133



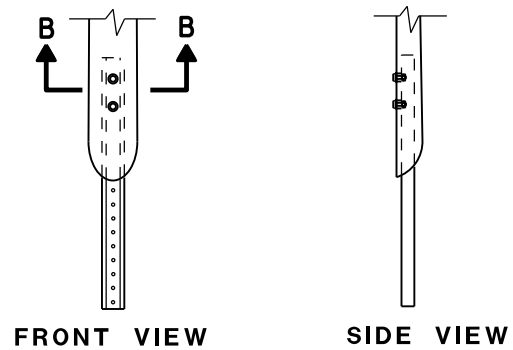
SECTION A-A

FRONT VIEW SIDE VIEW
ALTERNATE 2

FLEXIBLE MARKER POSTS



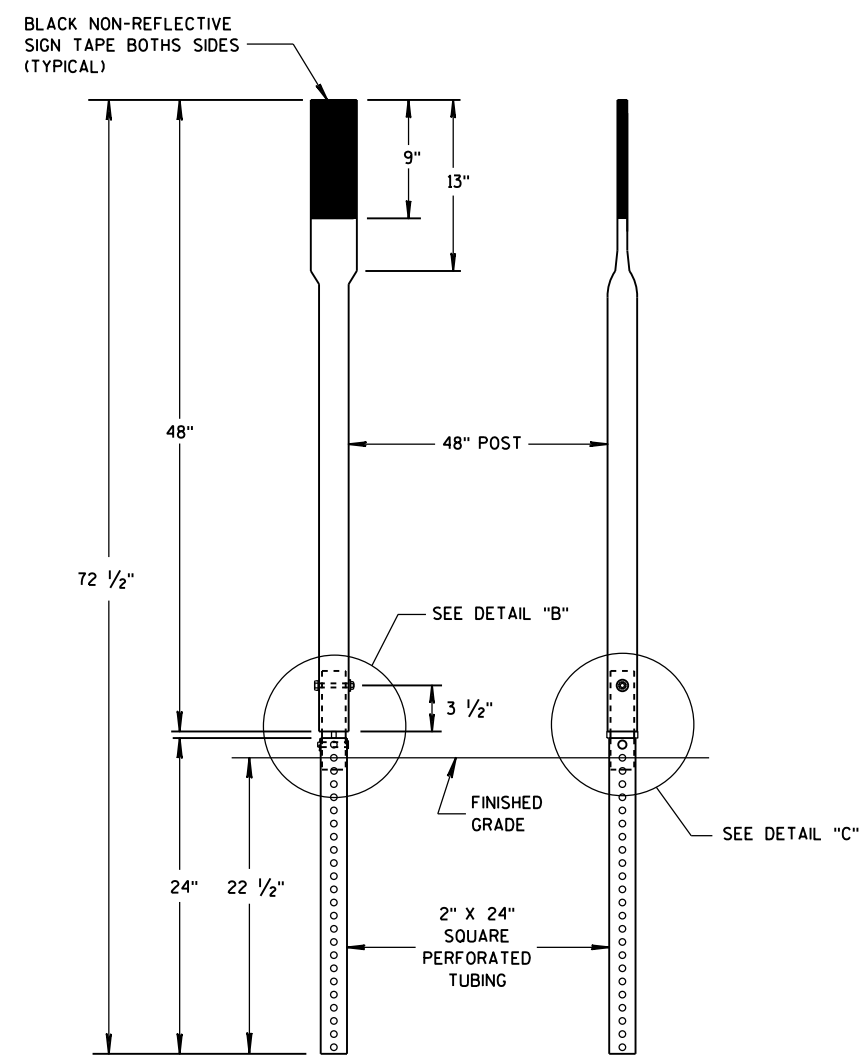
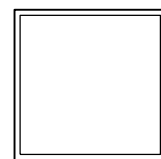
SECTION B-B



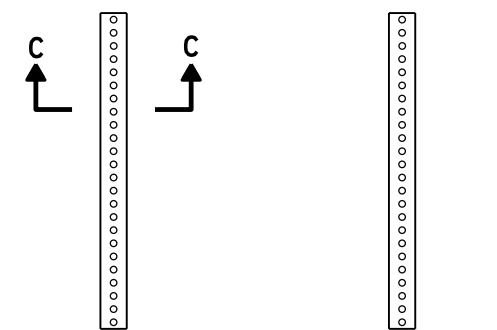
FRONT VIEW SIDE VIEW

ALTERNATE 2

FLEXIBLE MARKER POST ANCHORS

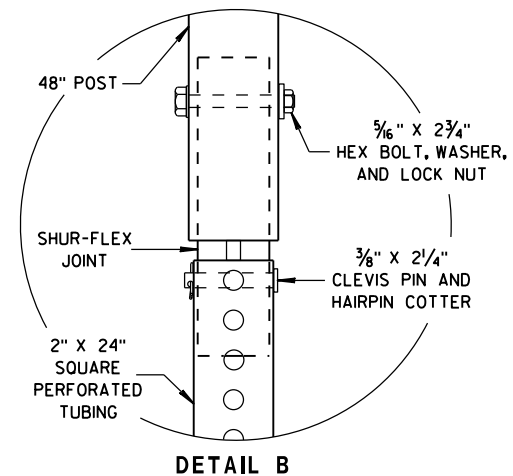
FRONT VIEW SIDE VIEW
ALTERNATE 3

SECTION C-C

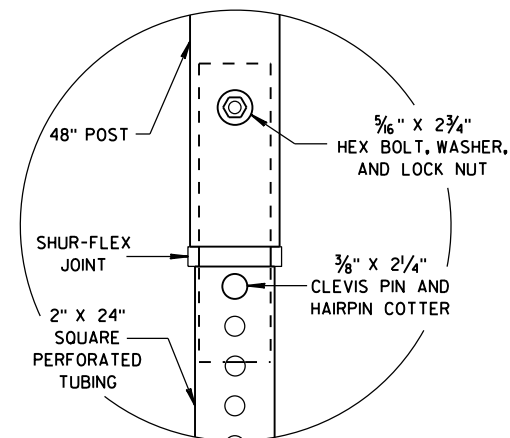


FRONT VIEW SIDE VIEW

ALTERNATE 3



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT ENDSTATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

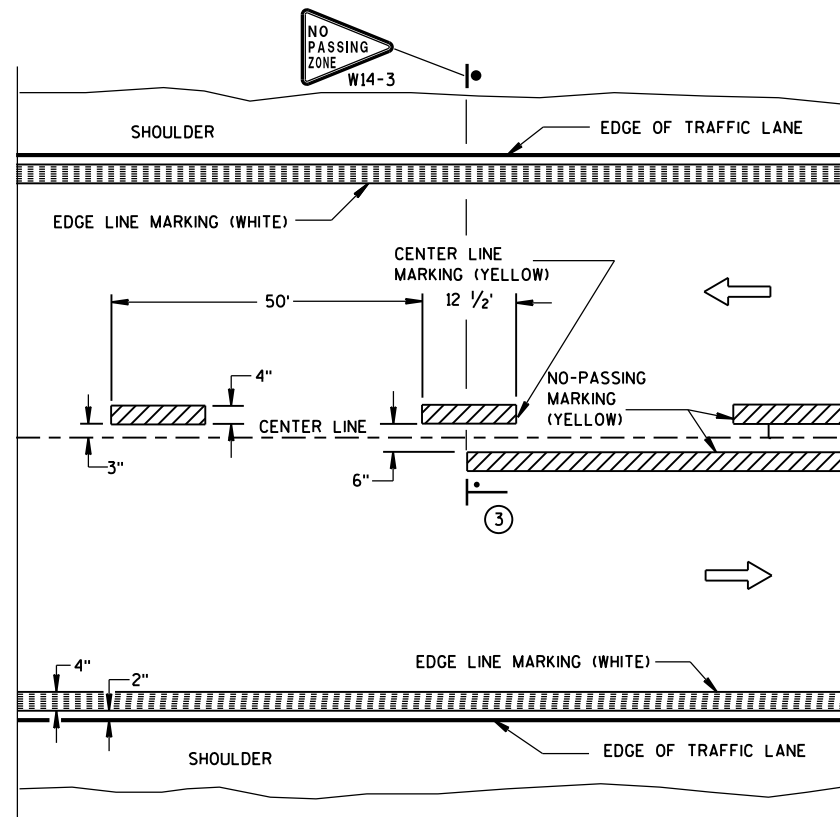
10/1/2012

DATE

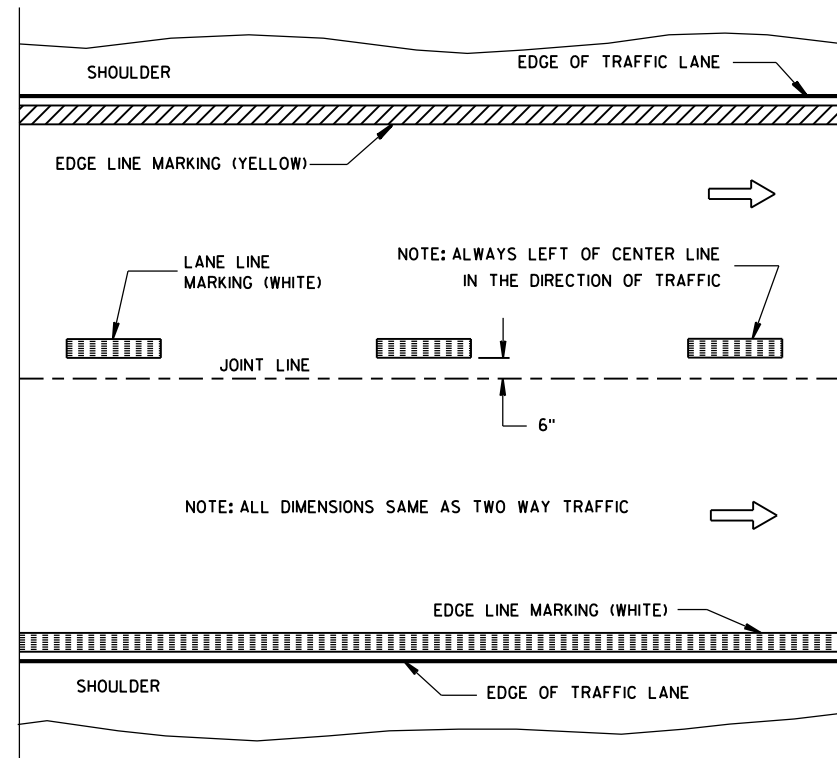
FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER 134

IGN

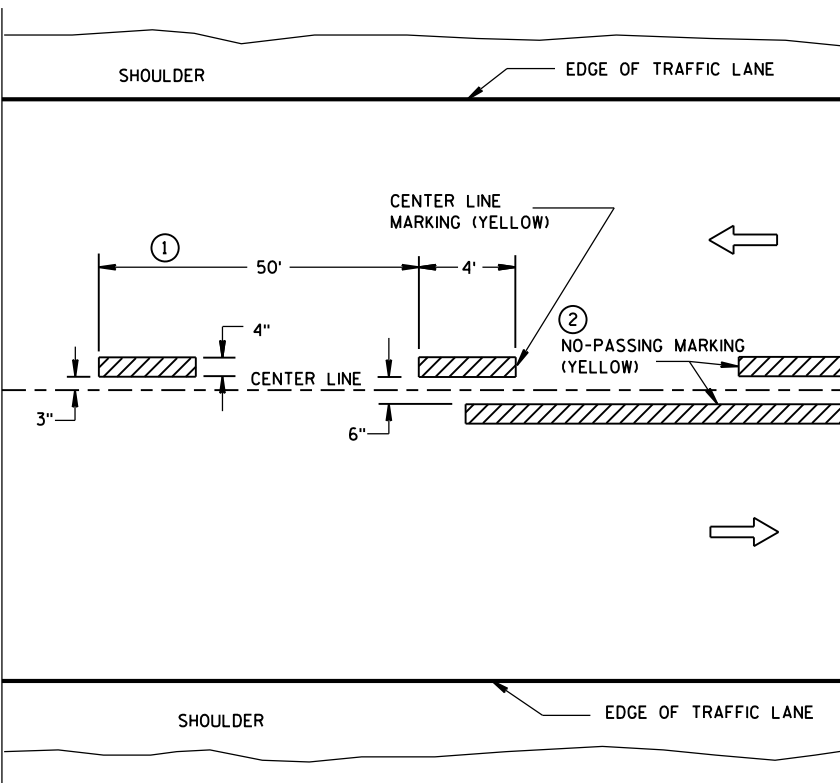


TWO WAY TRAFFIC

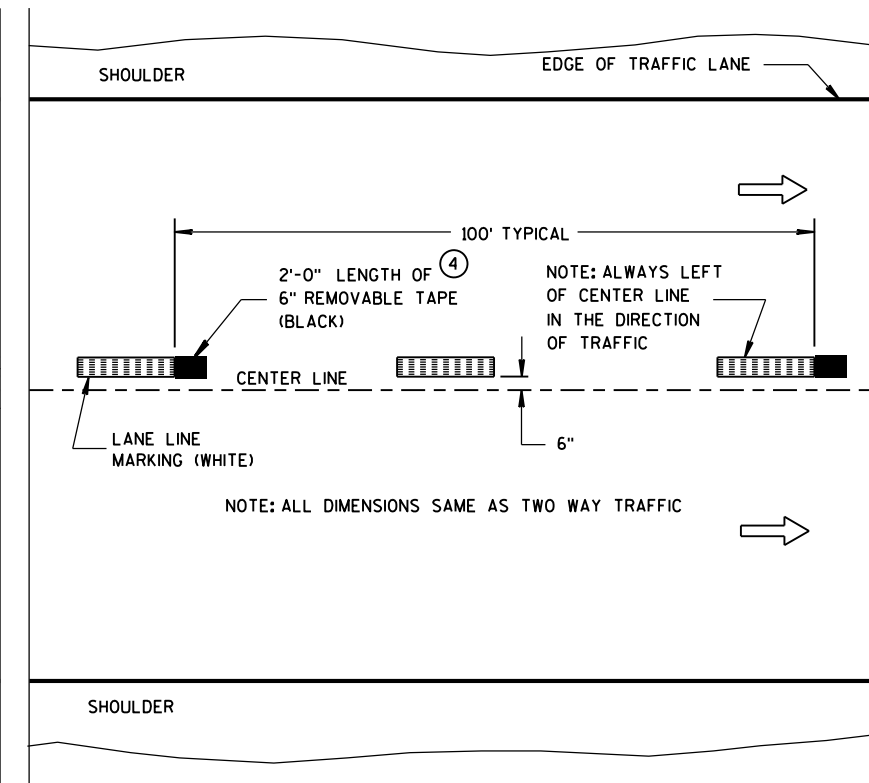


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

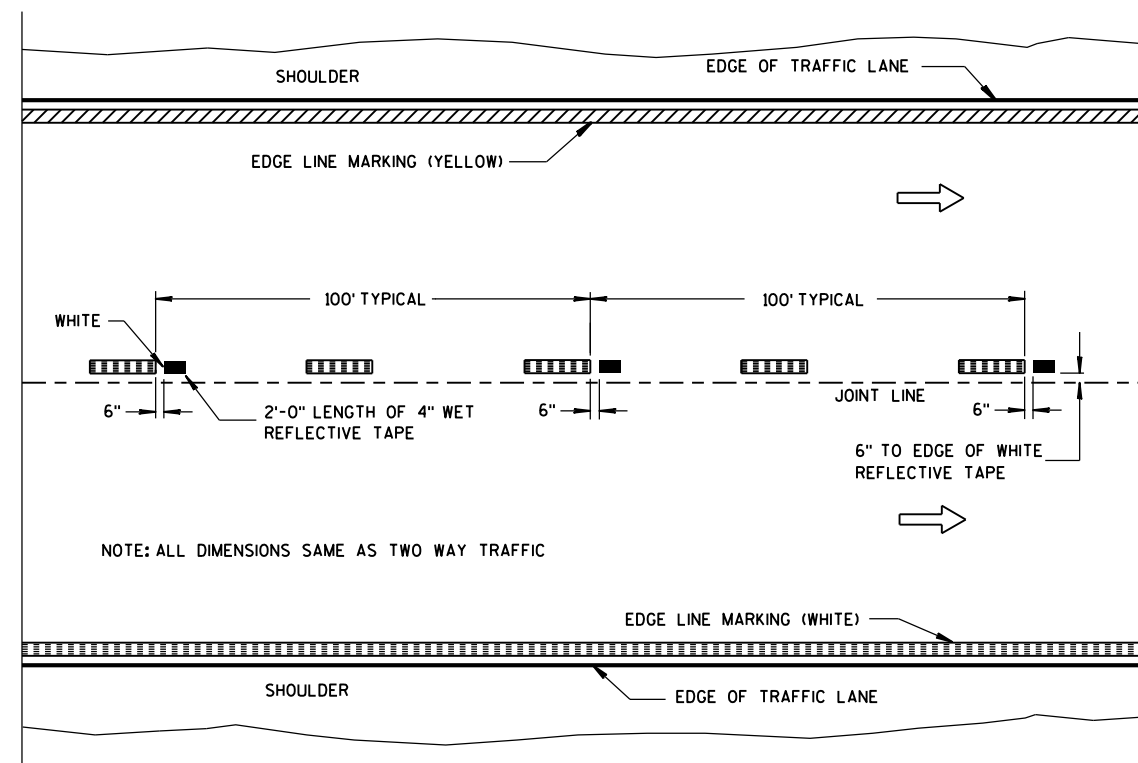
GENERAL NOTES

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

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

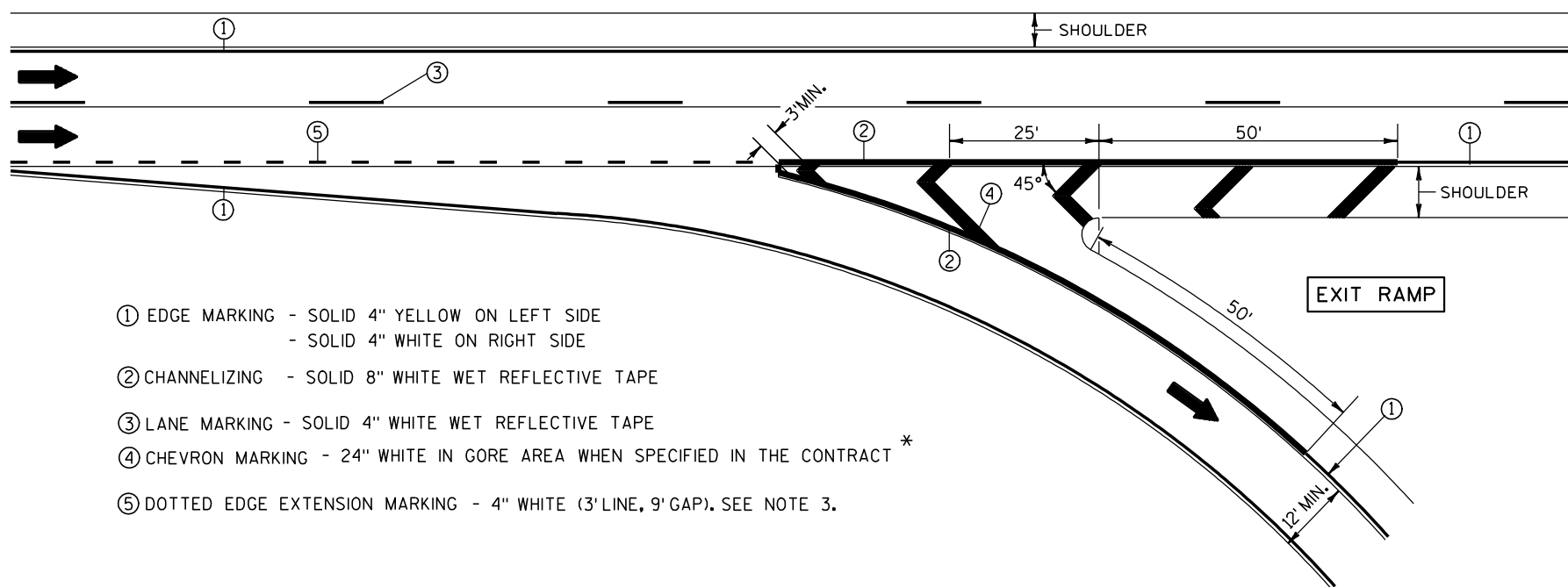
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013
DATE

FHWA

/S/ Travis Feltes
STATE TRAFFIC E 135

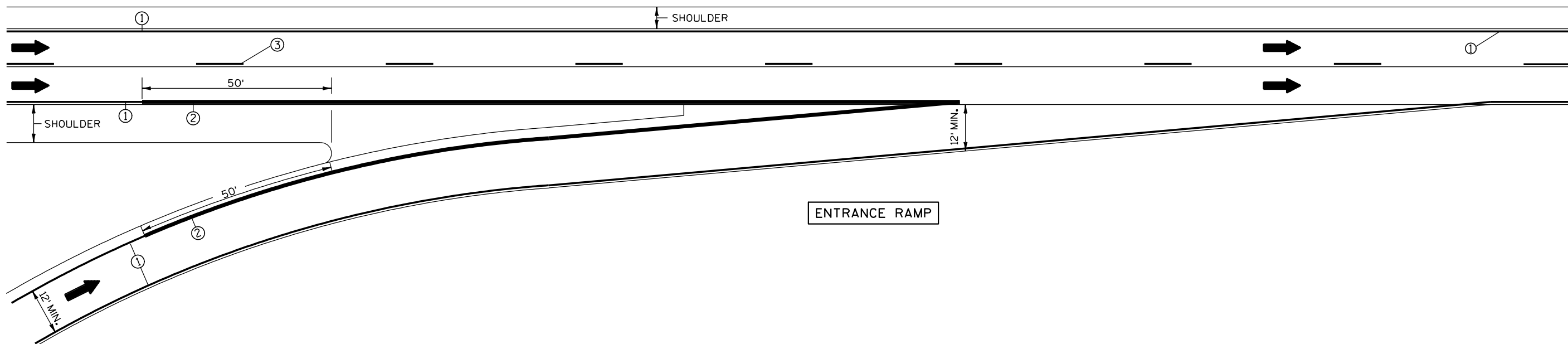


- ① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE
- ② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE
- ③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE
- ④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *
- ⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 9' GAP). SEE NOTE 3.

NOTES:

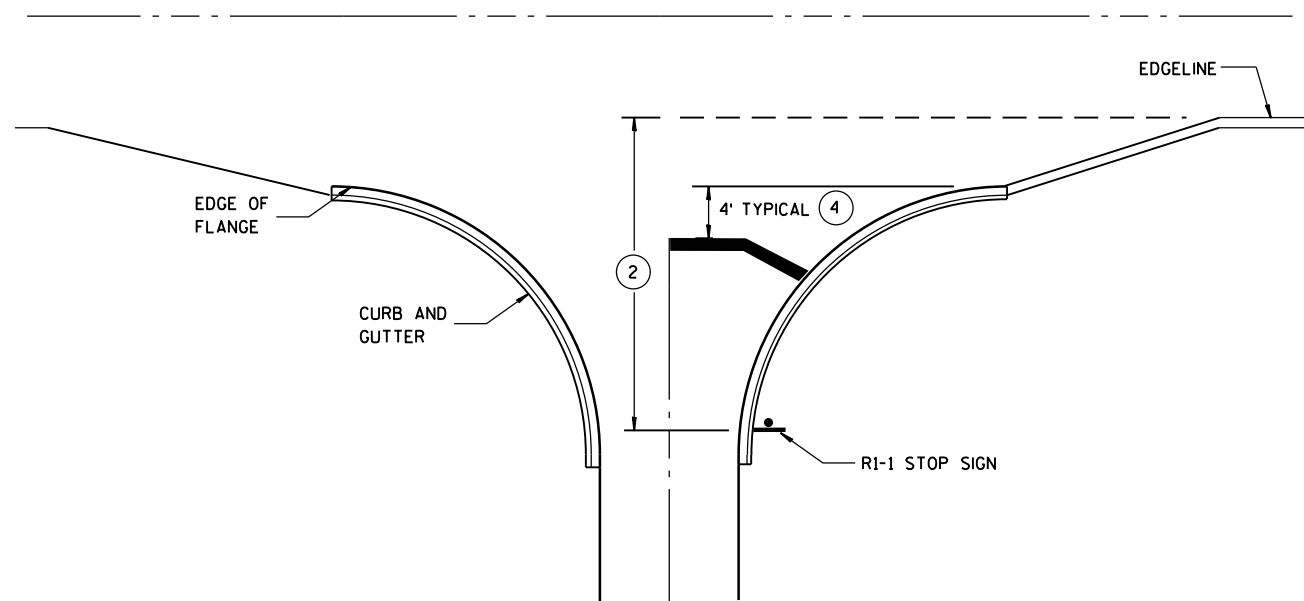
- 1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
- 2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.
- 3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4. RETRACE EXISTING DIAGONAL MARKINGS.

* REFER TO DESIGN NOTES.

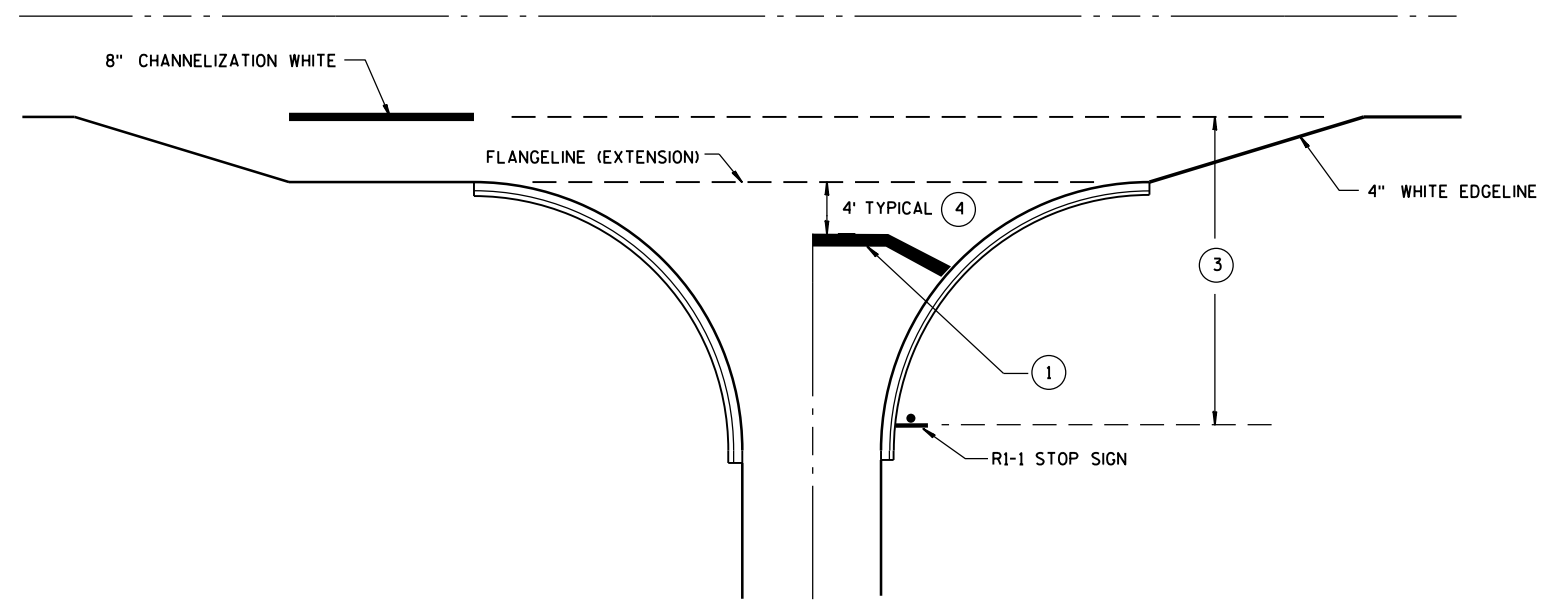


PAVEMENT MARKING
(RAMPS AND GORES)

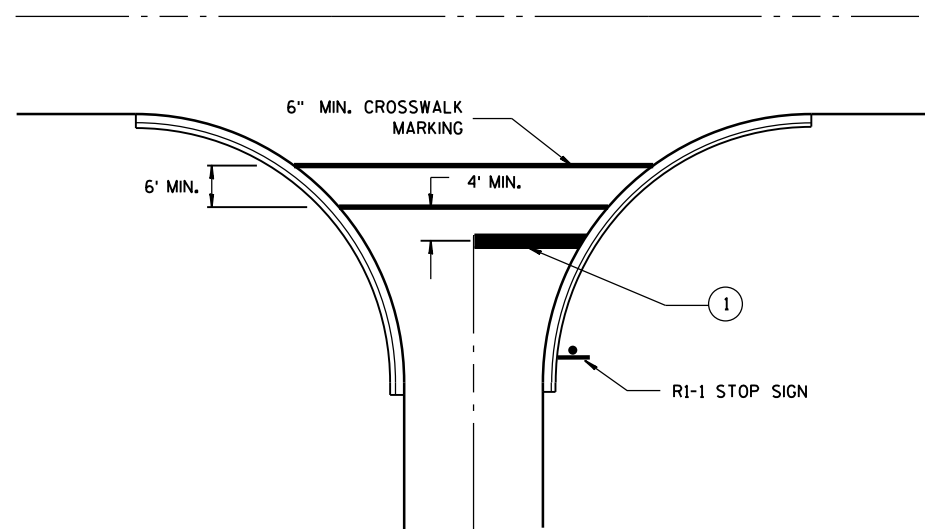
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



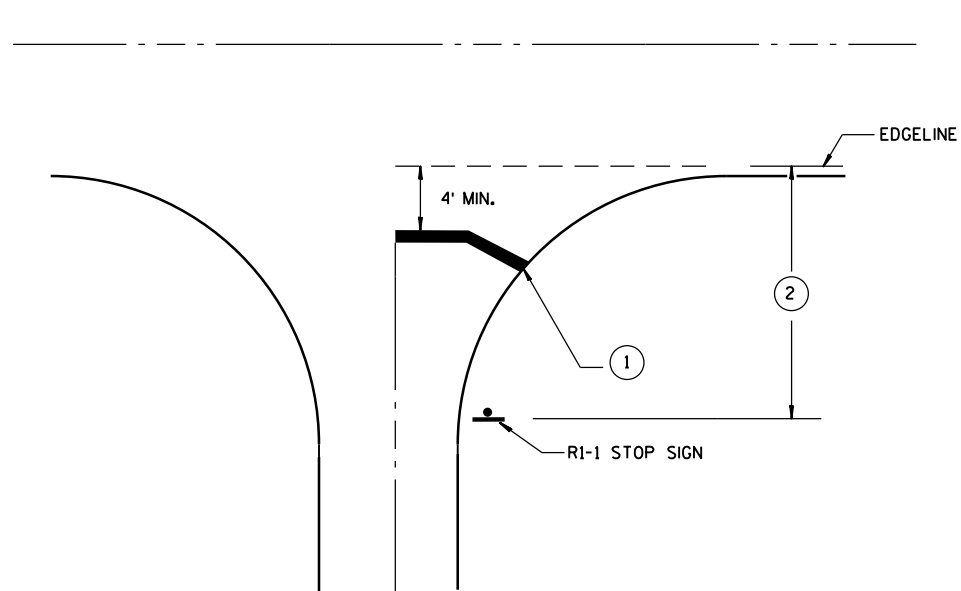
**TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER**



**TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH RIGHT TURN LANE**



**TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH CROSSWALK MARKING**



**TYPICAL STOP LINE PAVEMENT MARKING
WITHOUT CURB AND GUTTER**

GENERAL NOTES

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

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

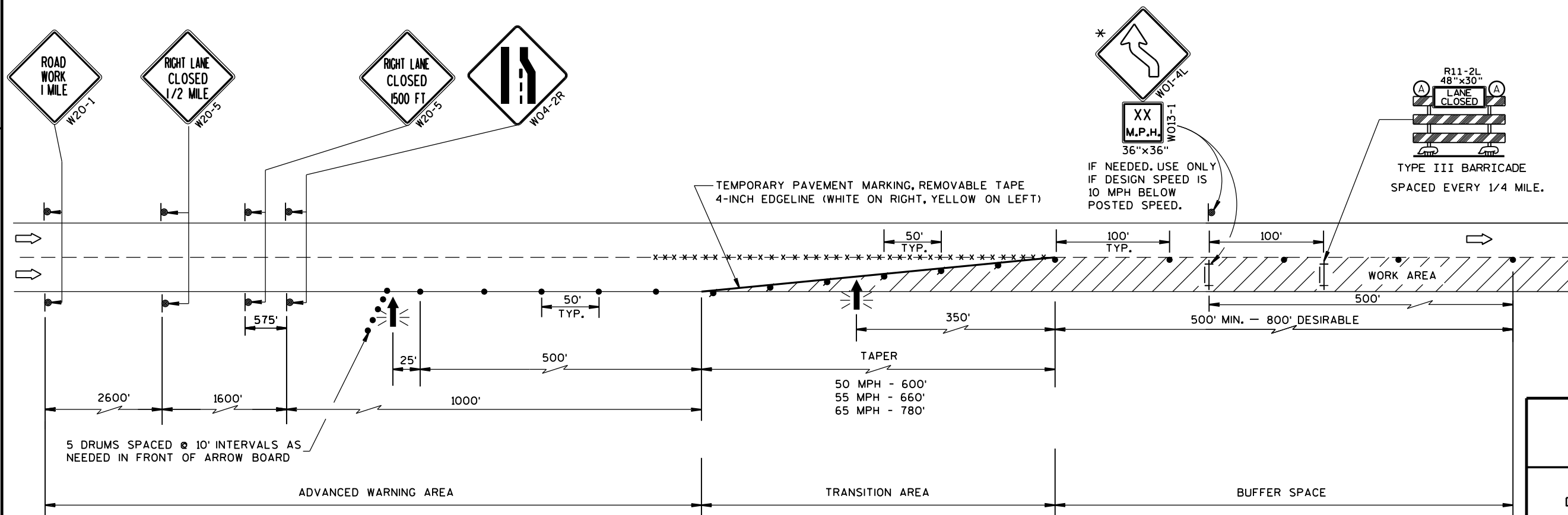
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

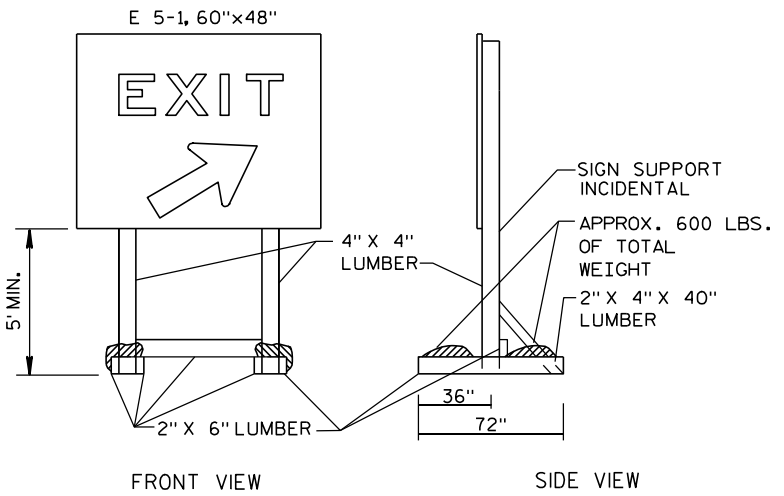
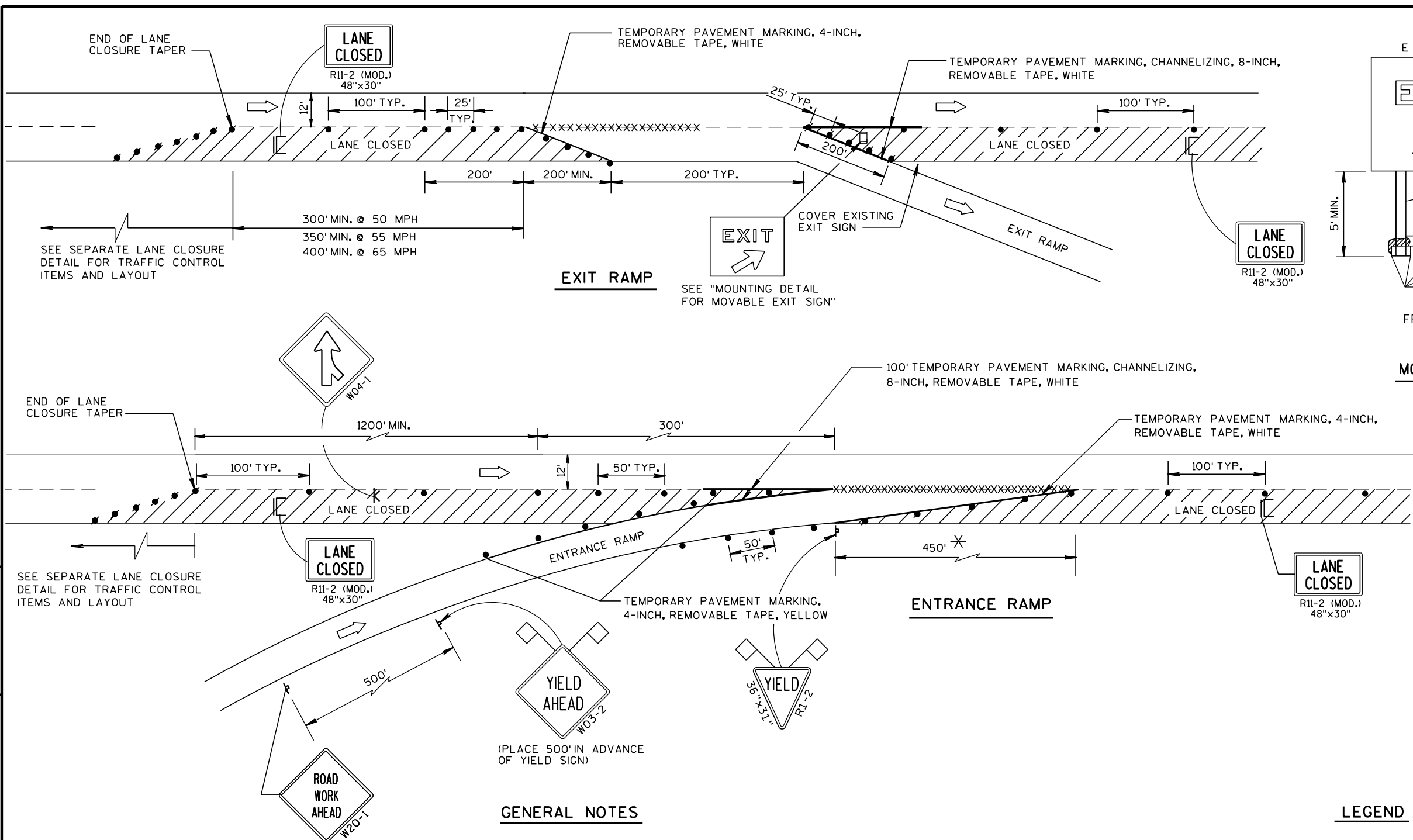
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED Feb. 2015 DATE	/S/ Travis Fettes STATE TRAFFIC ENGINEER 138 SIGN
FHWA	



FRONT VIEW SIDE VIEW
NOTE: ALL LUMBER DIMENSIONS ARE NOMINAL
MOUNTING DETAIL FOR MOVABLE EXIT SIGN

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2 (MOD.) "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

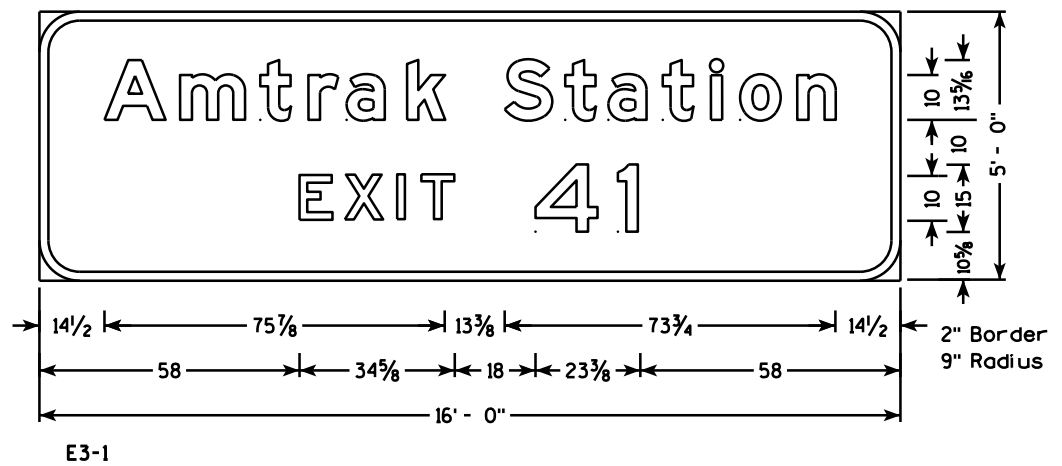
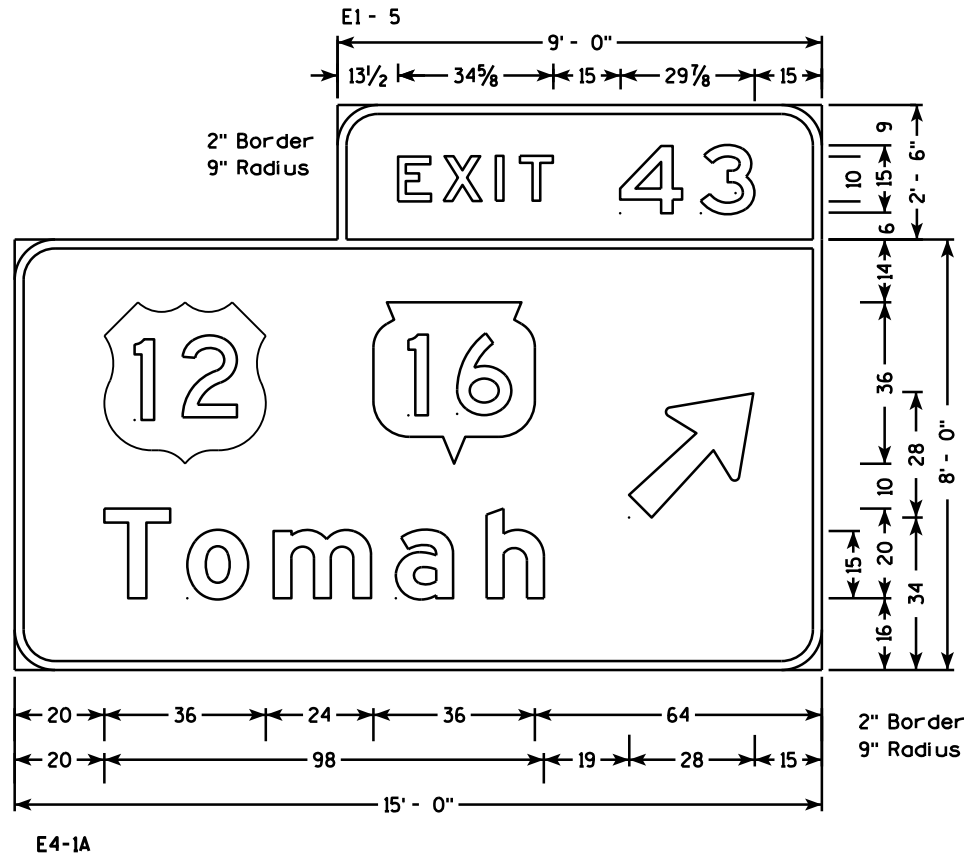
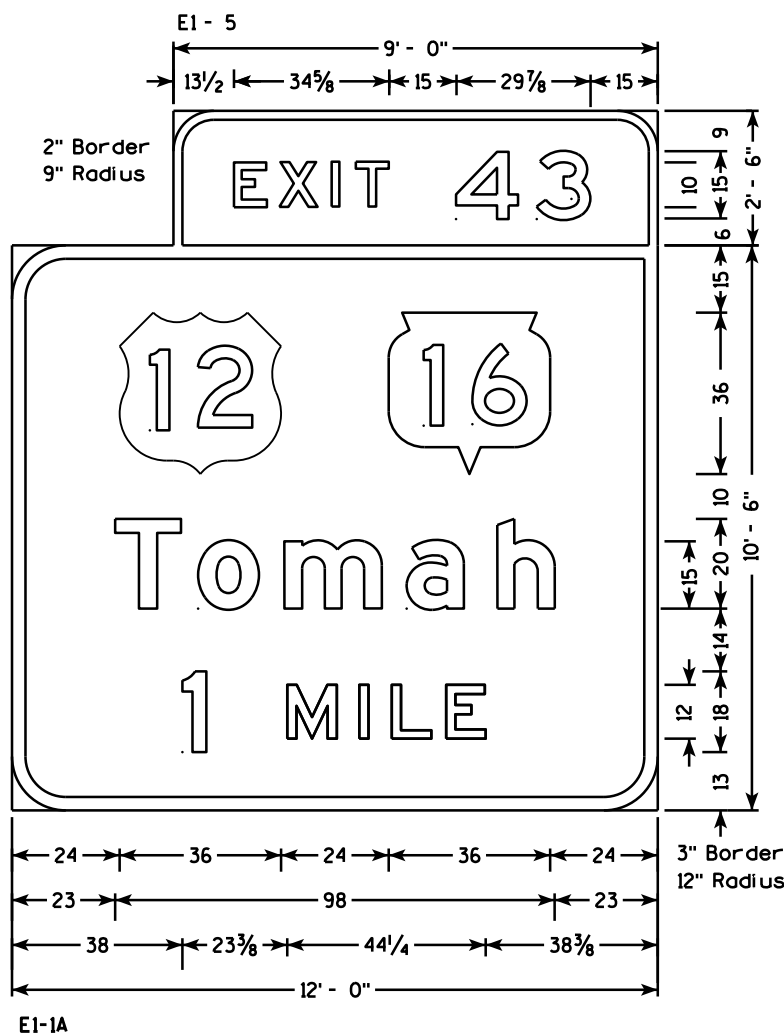
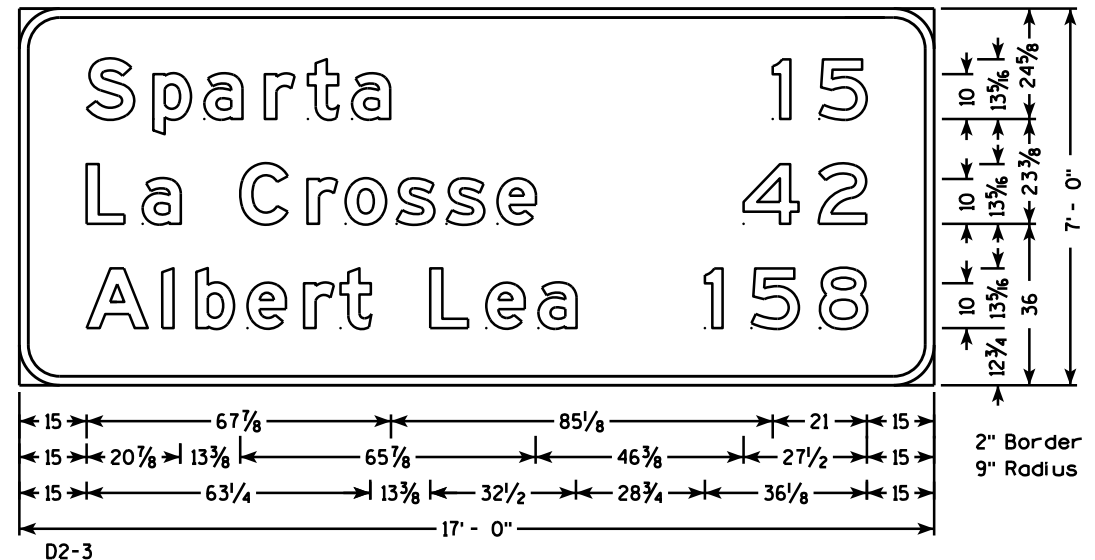
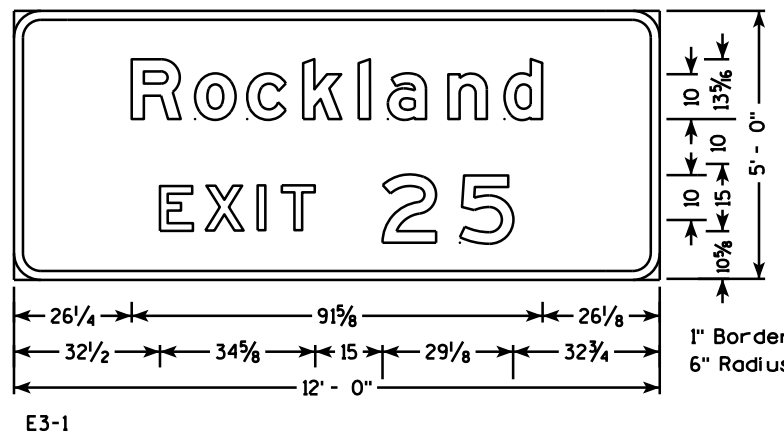
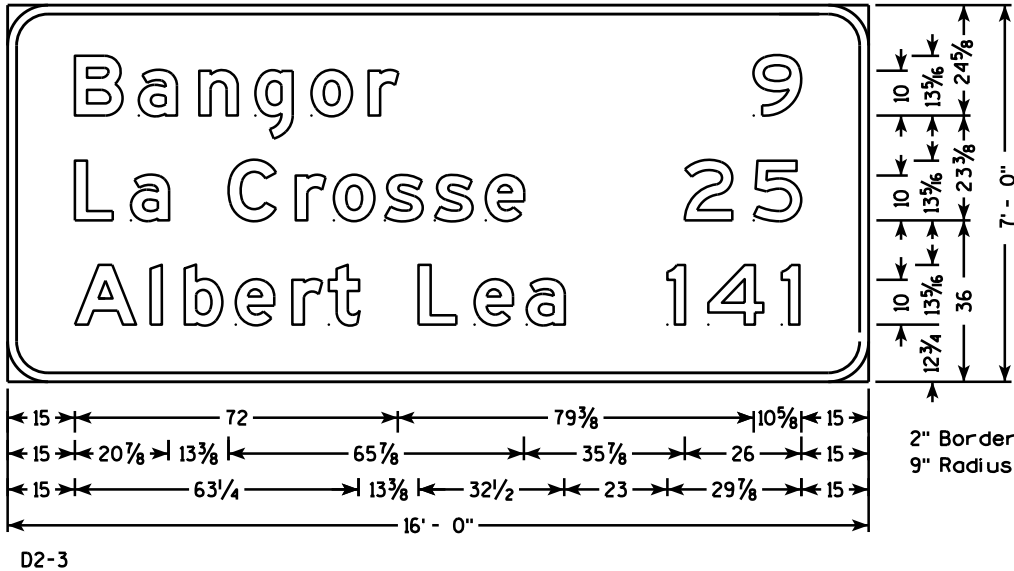
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* LENGTH OF OPENING MAY BE REDUCED TO 150 FEET DURING STAGING OF WORK IN IMMEDIATE AREA OF RAMP TAPER.

LEGEND

- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT
- TRAFFIC CONTROL, DRUM
- TRAFFIC CONTROL, DRUM WITH WARNING LIGHT, TYPE C (STEADY-BURN)
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE (8' EQUIVALENT) WITH SIGN
- FLAGS, 16"x16" MIN., ORANGE
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED 5/24/2000 DATE		/S/ Chester J. CHIEF SIGNS AND MAR 139 INEER	
FHWA			

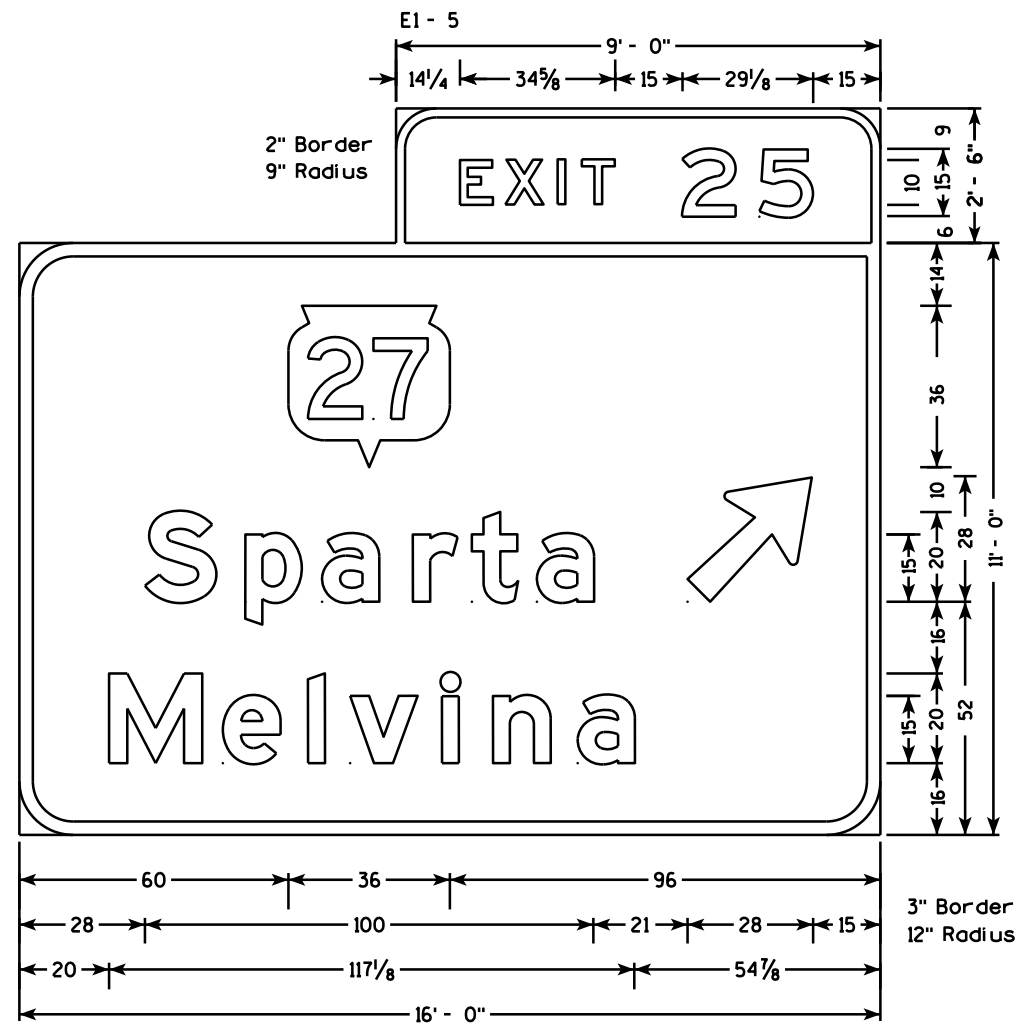


NOTES

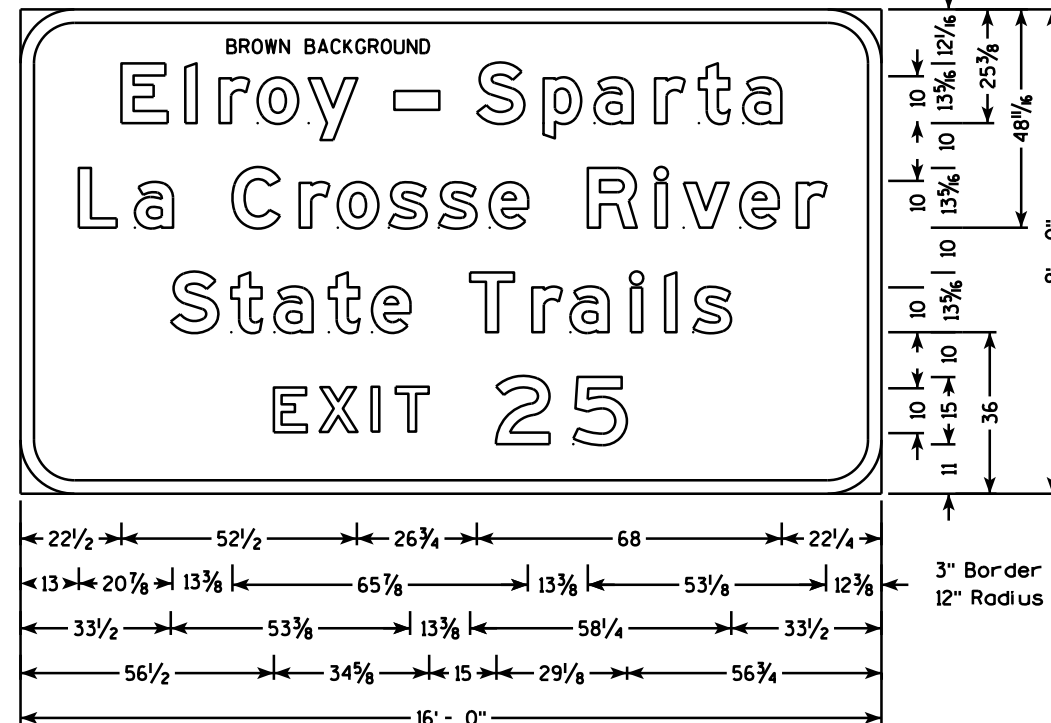
- 1. All Signs are Type I - Type SH Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E Modified except all cap Words are Series E

NOTES

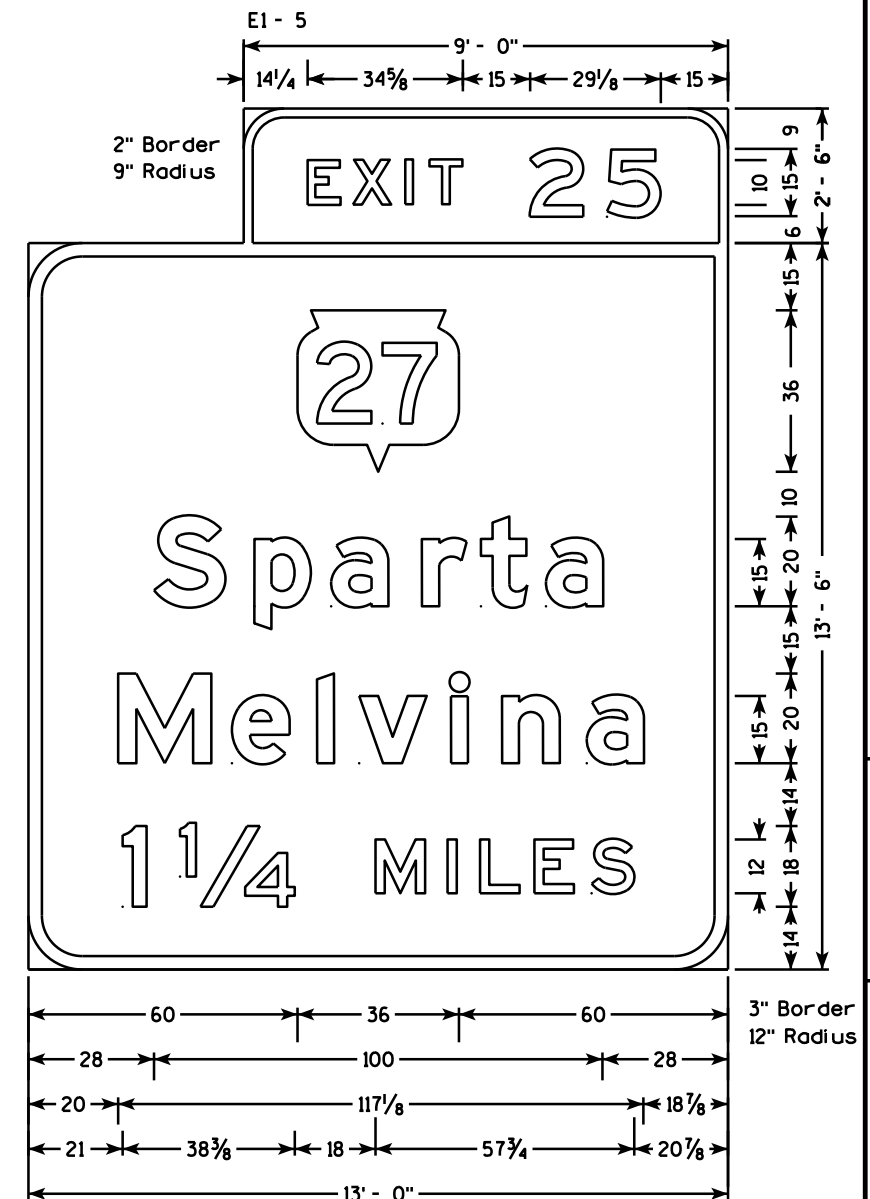
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2. Color:
 - Background - Green except as Shown
 - Message - White
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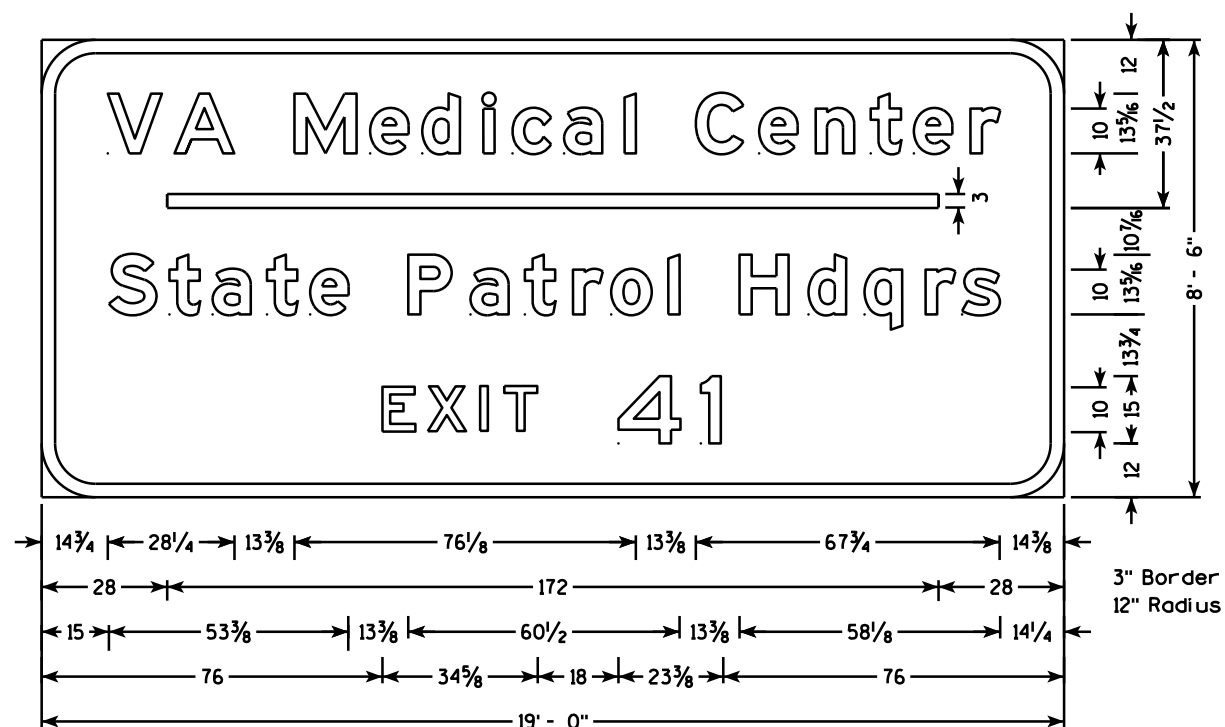
E4-1A



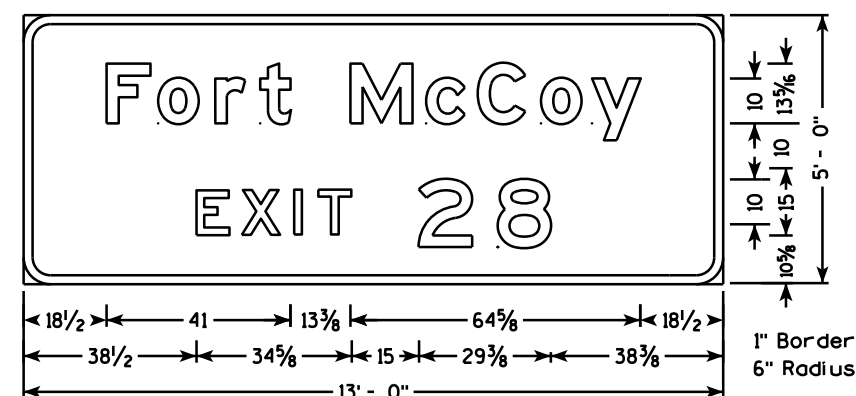
E3-1



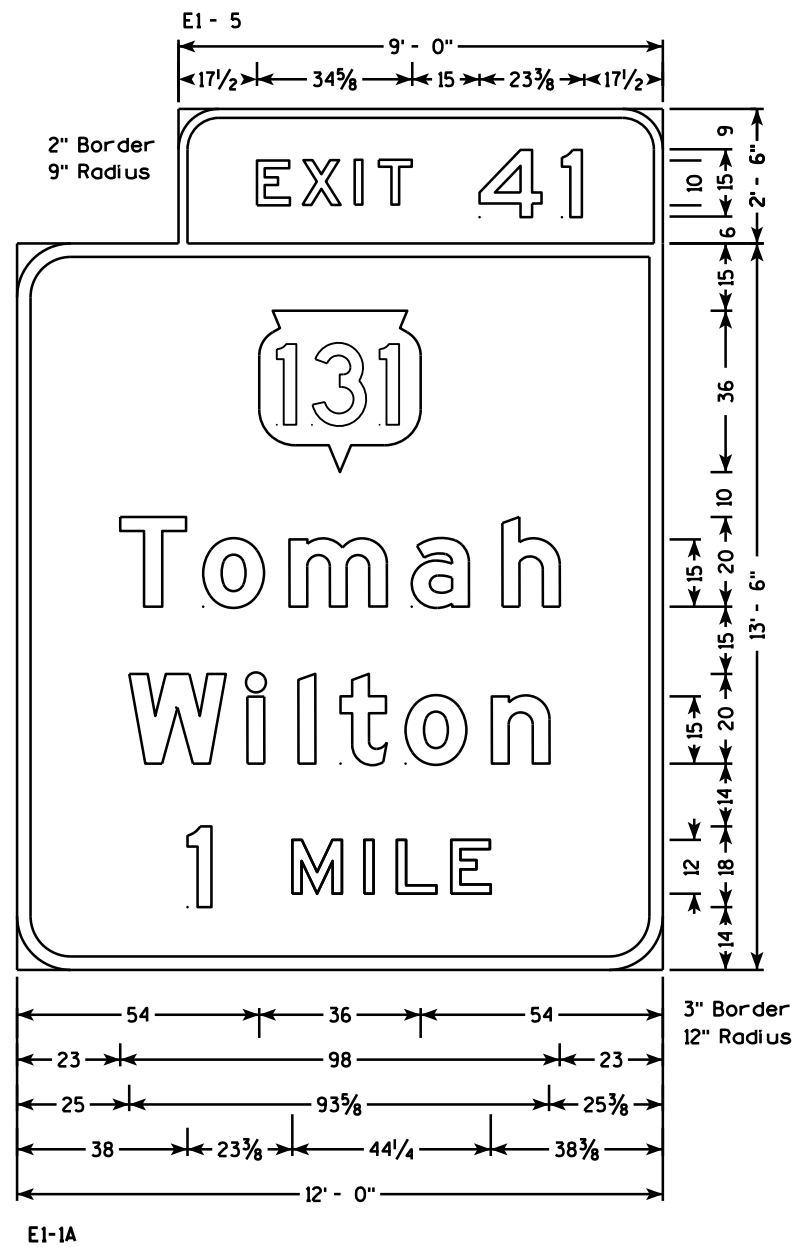
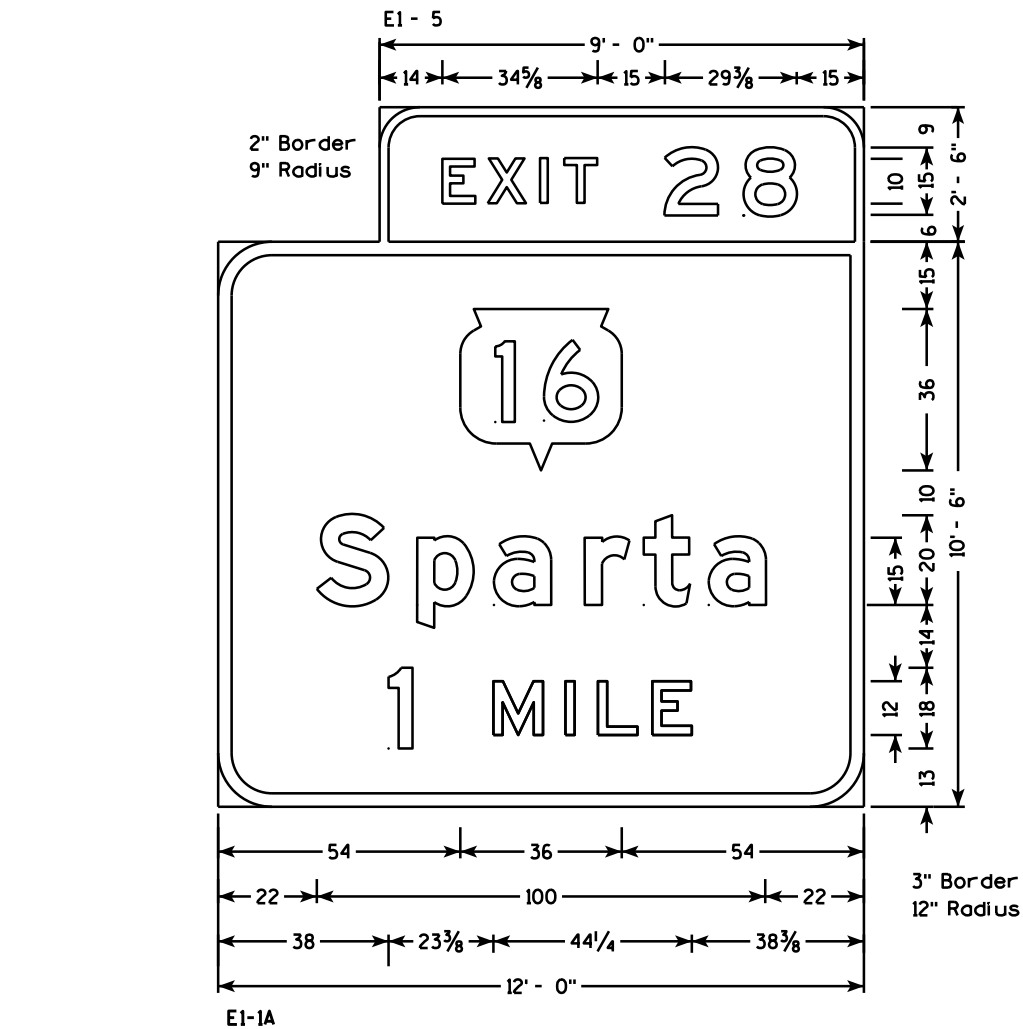
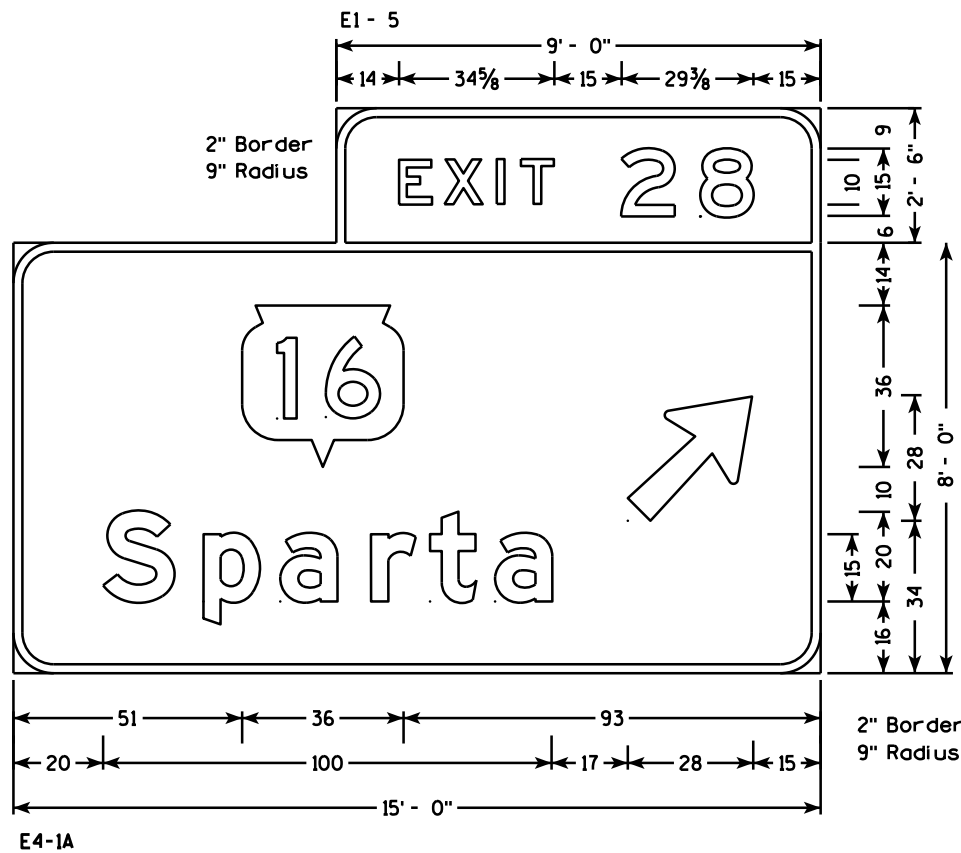
E1-1A



E3-1

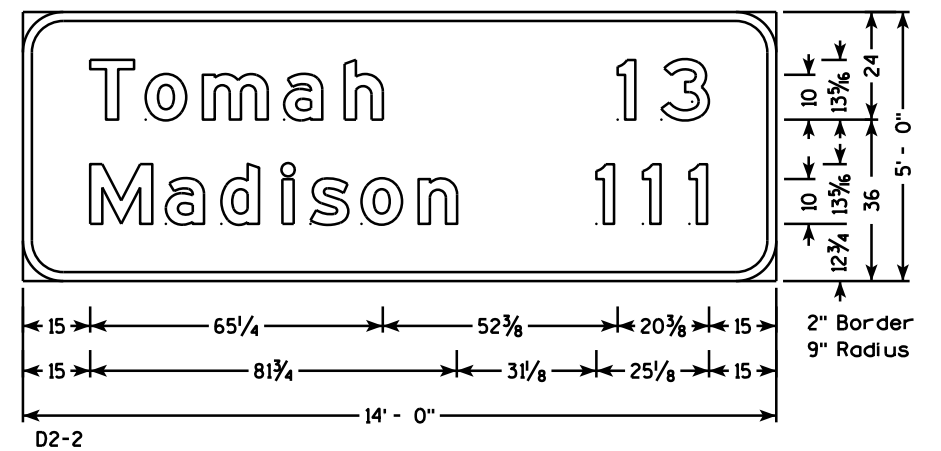
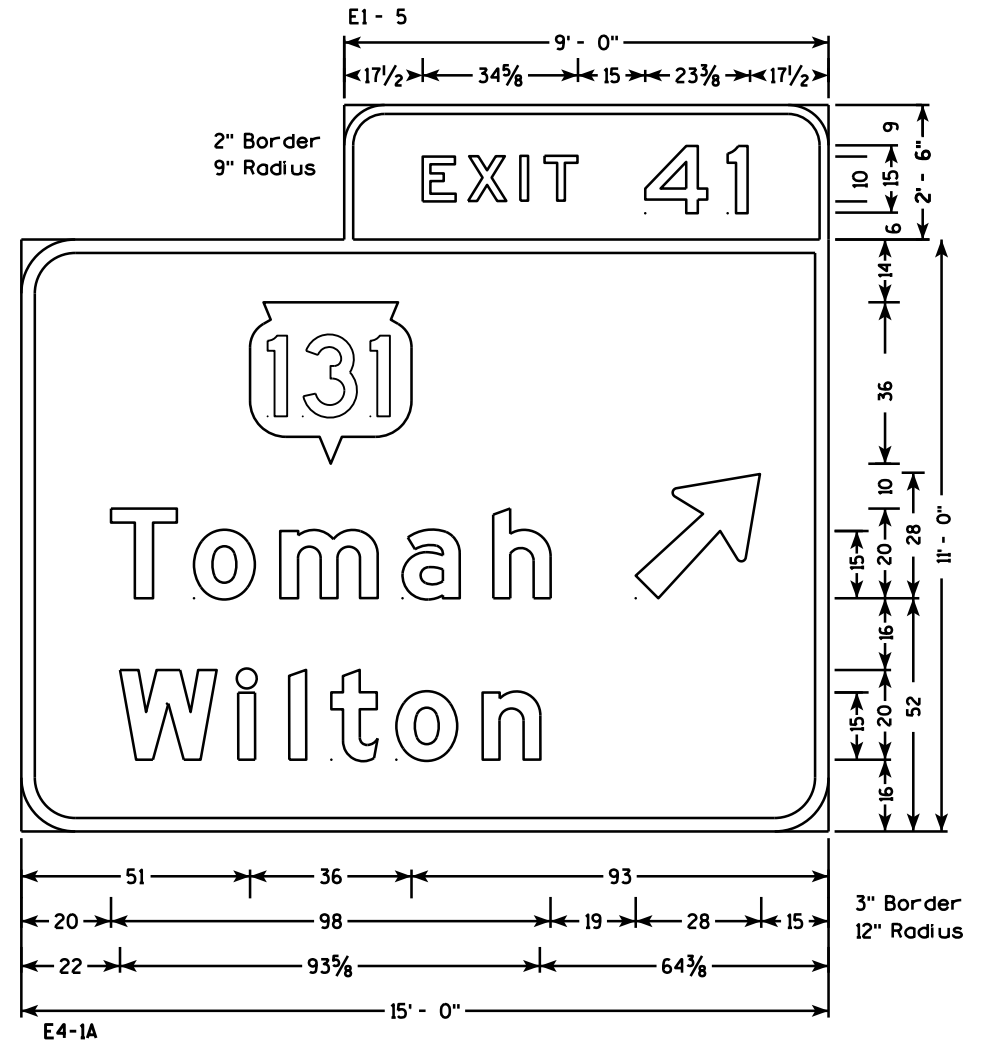


E3-1



NOTES

1. All Signs are Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all cap Words are Series E



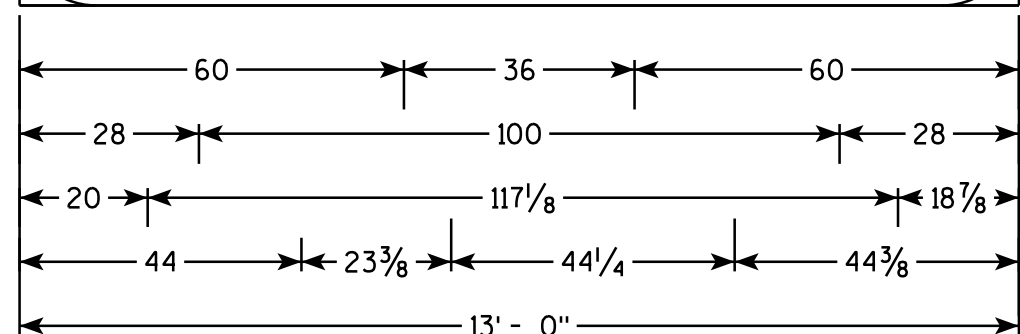
2" Border
9" Radius



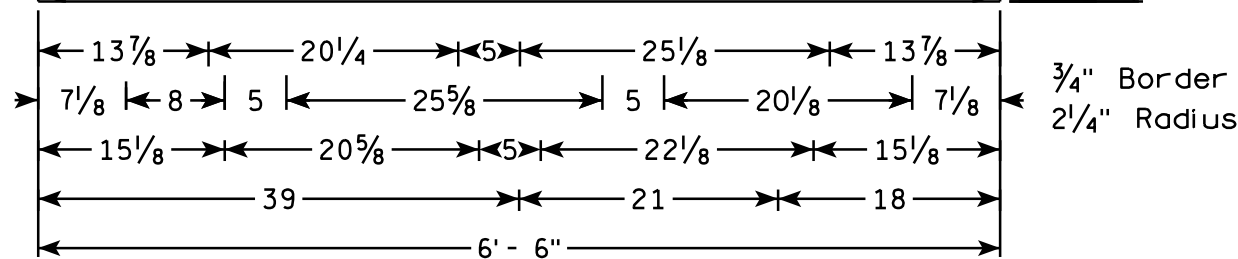
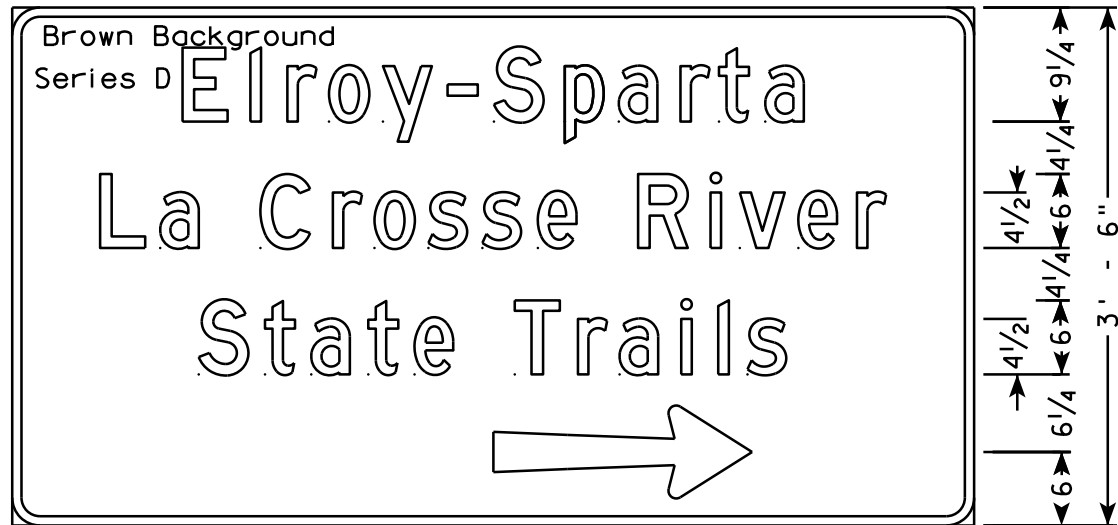
NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all cap Words are Series E

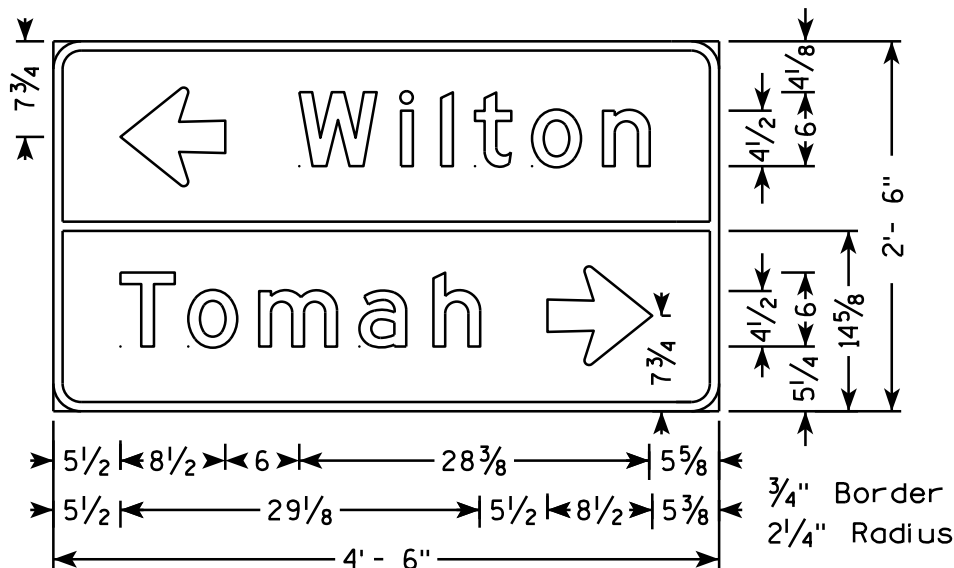
3" Border
12" Radius



E1-1A



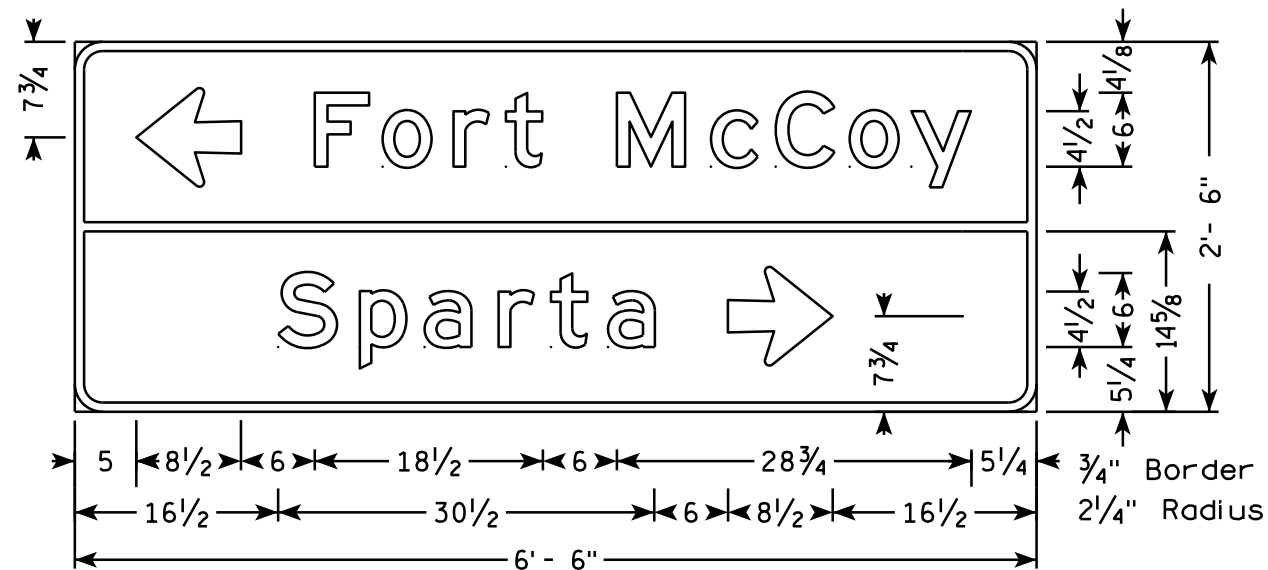
D7-77R (MOD)



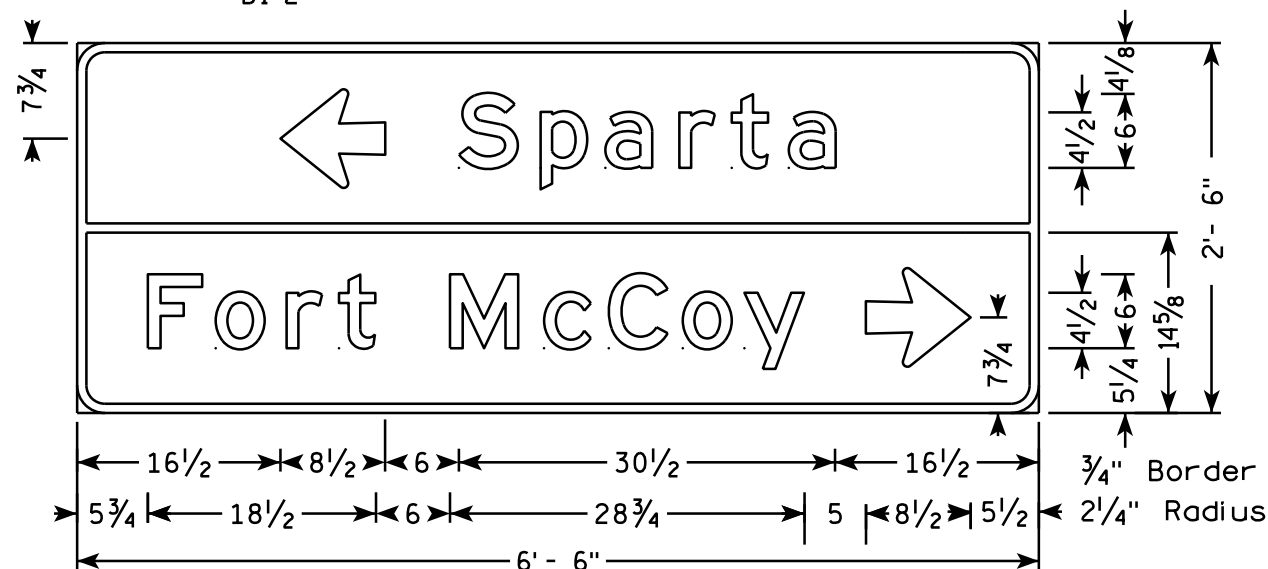
3/4" Border
2 1/4" Radius

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
Background - GREEN except as Shown
Message - WHITE
3. Message Series - E except as Shown



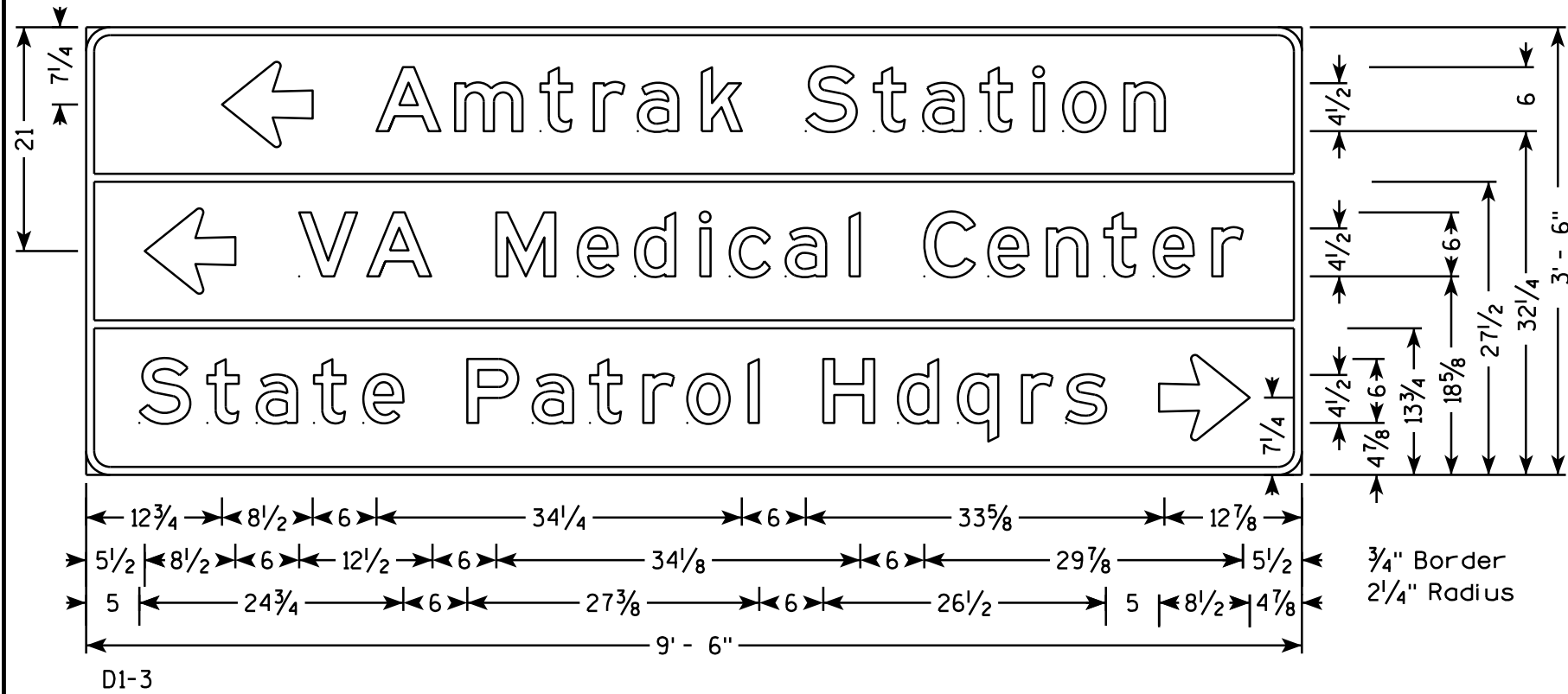
D1-2



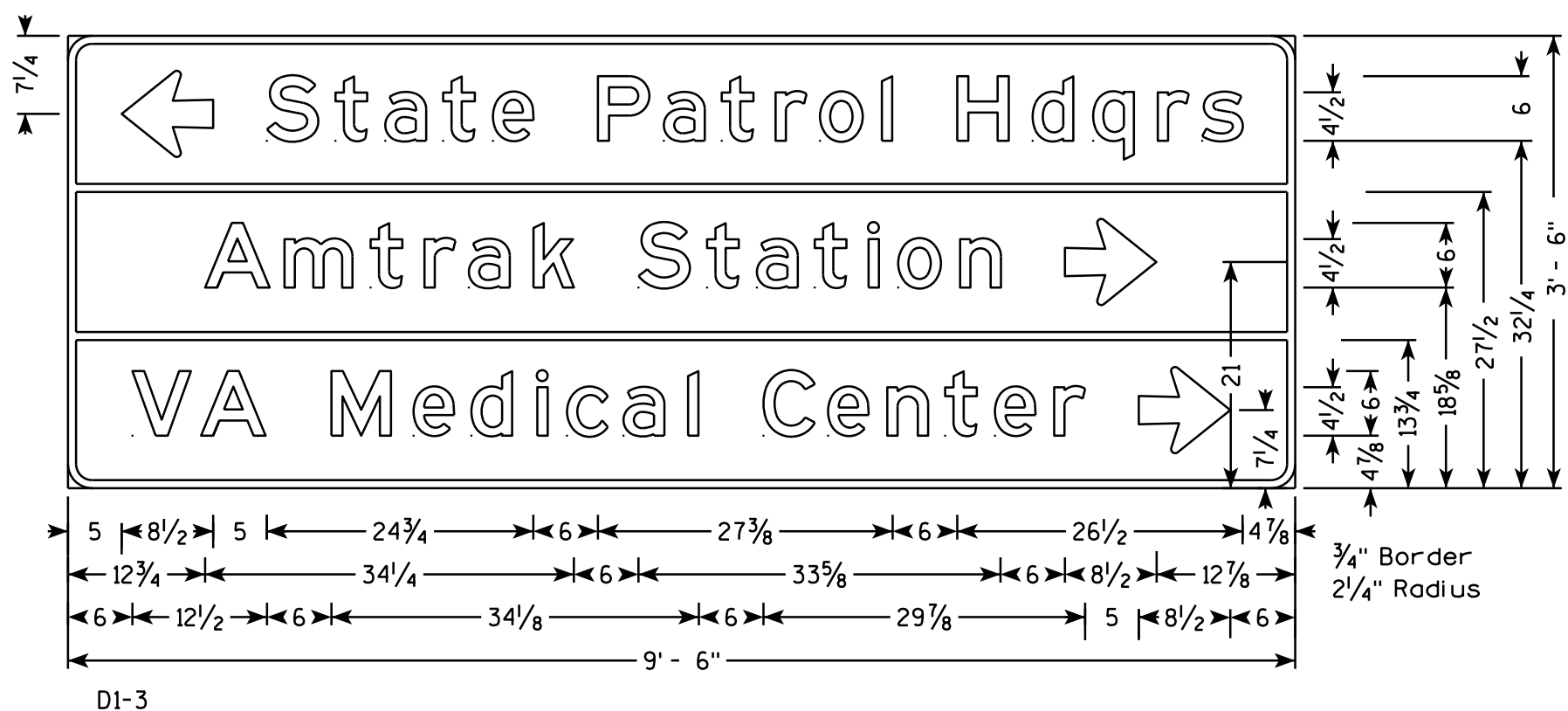
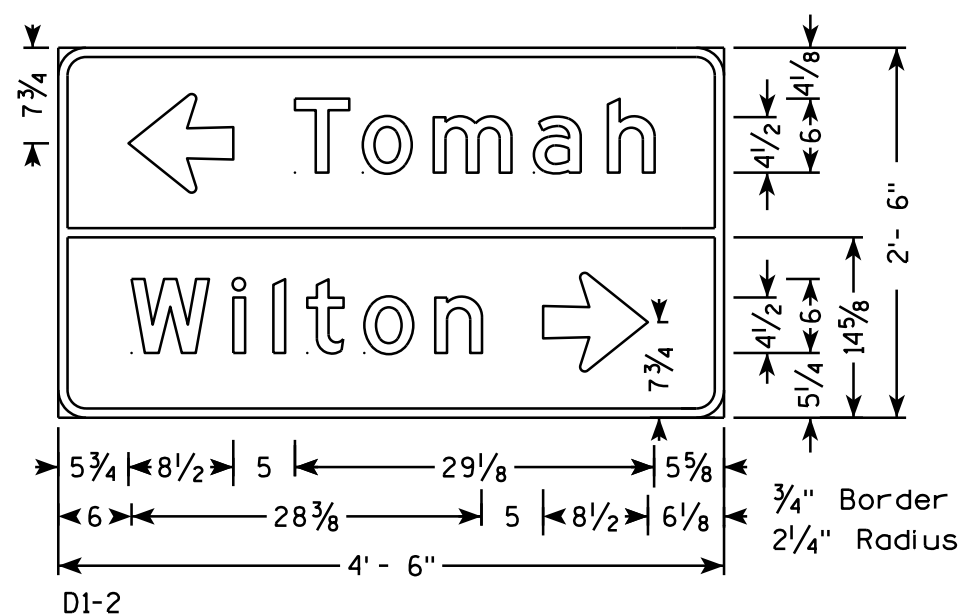
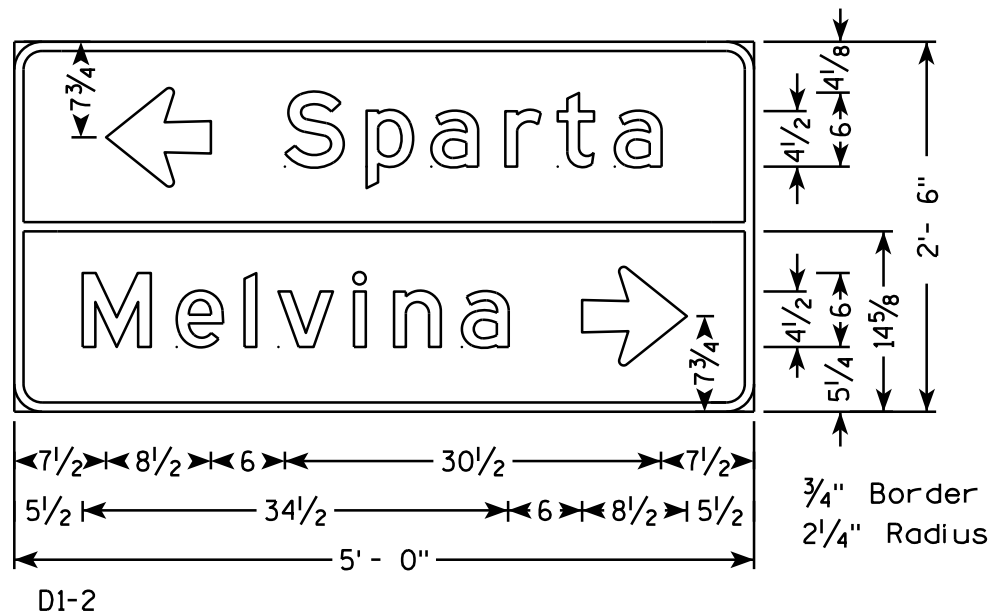
D1-2

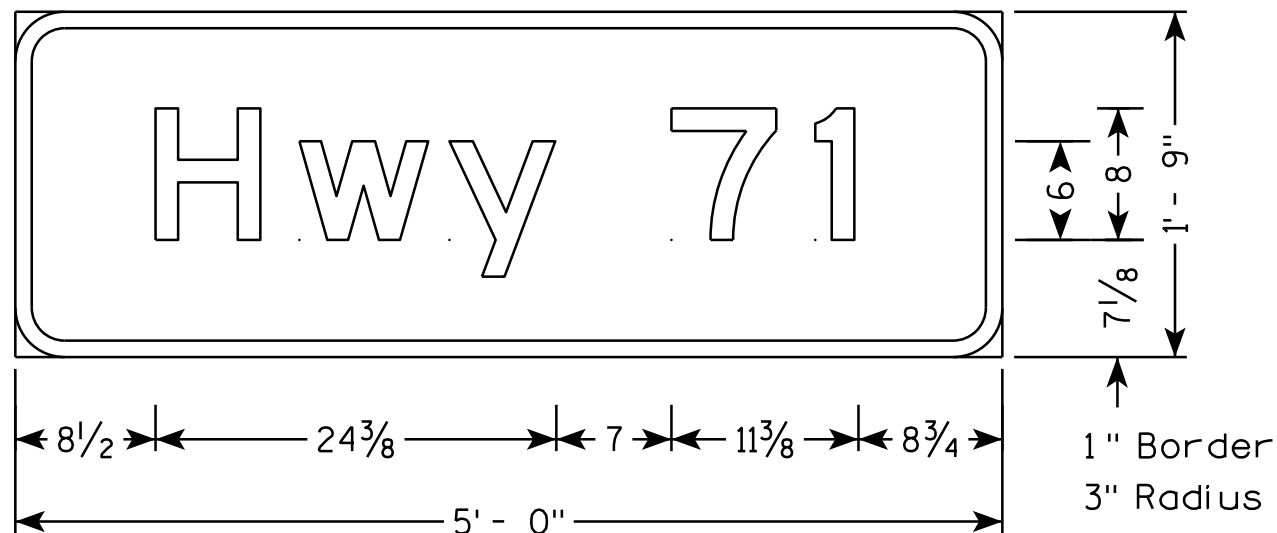
7

7

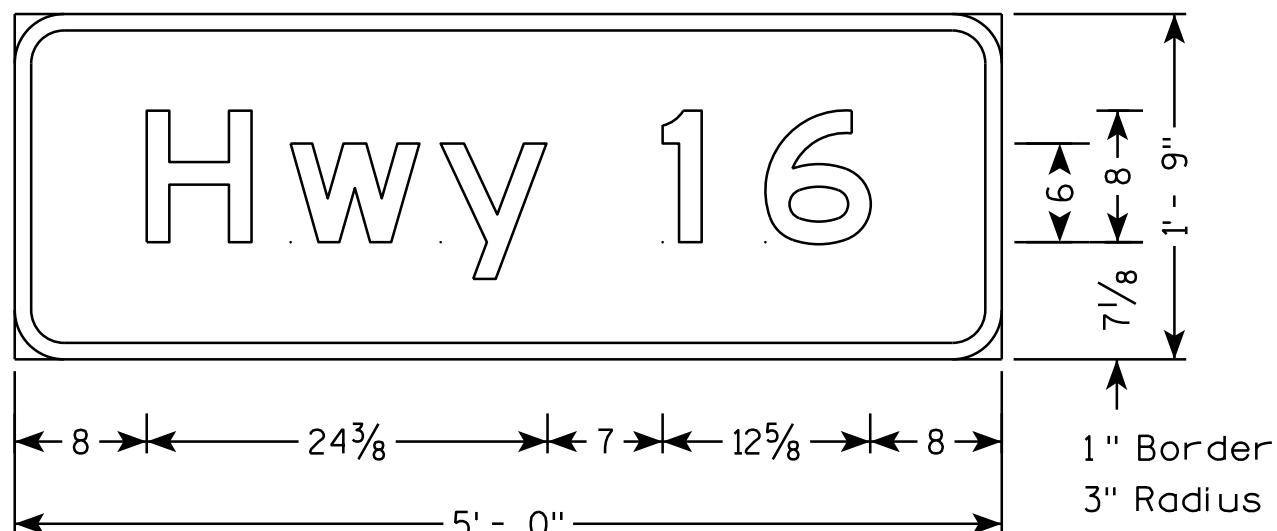


- NOTES**
1. All Signs Type II - Type H Reflective
 2. Color:
Background - GREEN
Message - WHITE
 3. Message Series - E

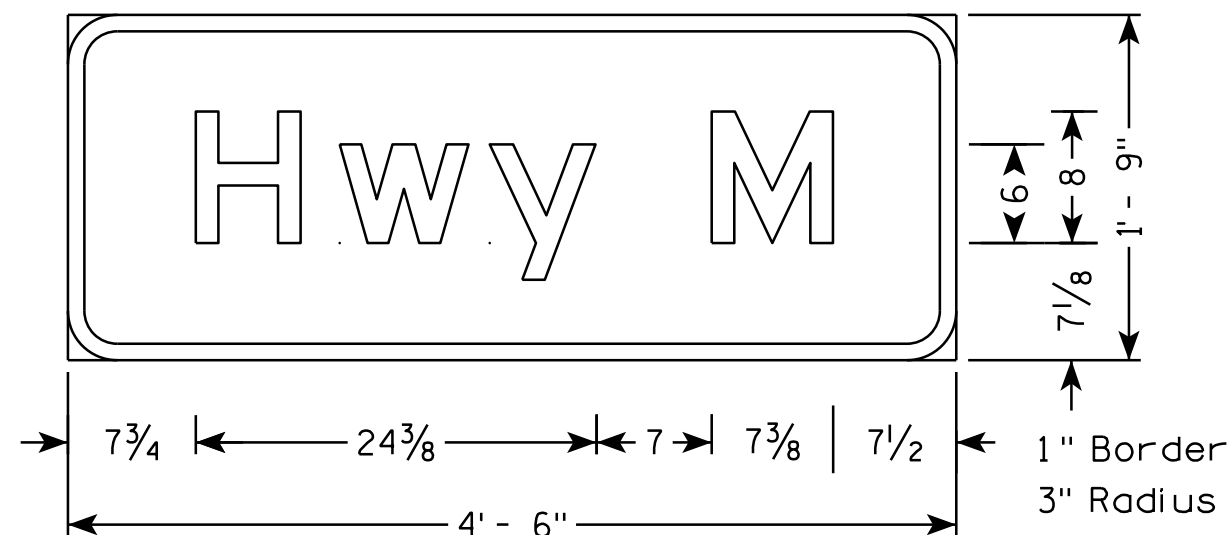




M1-94



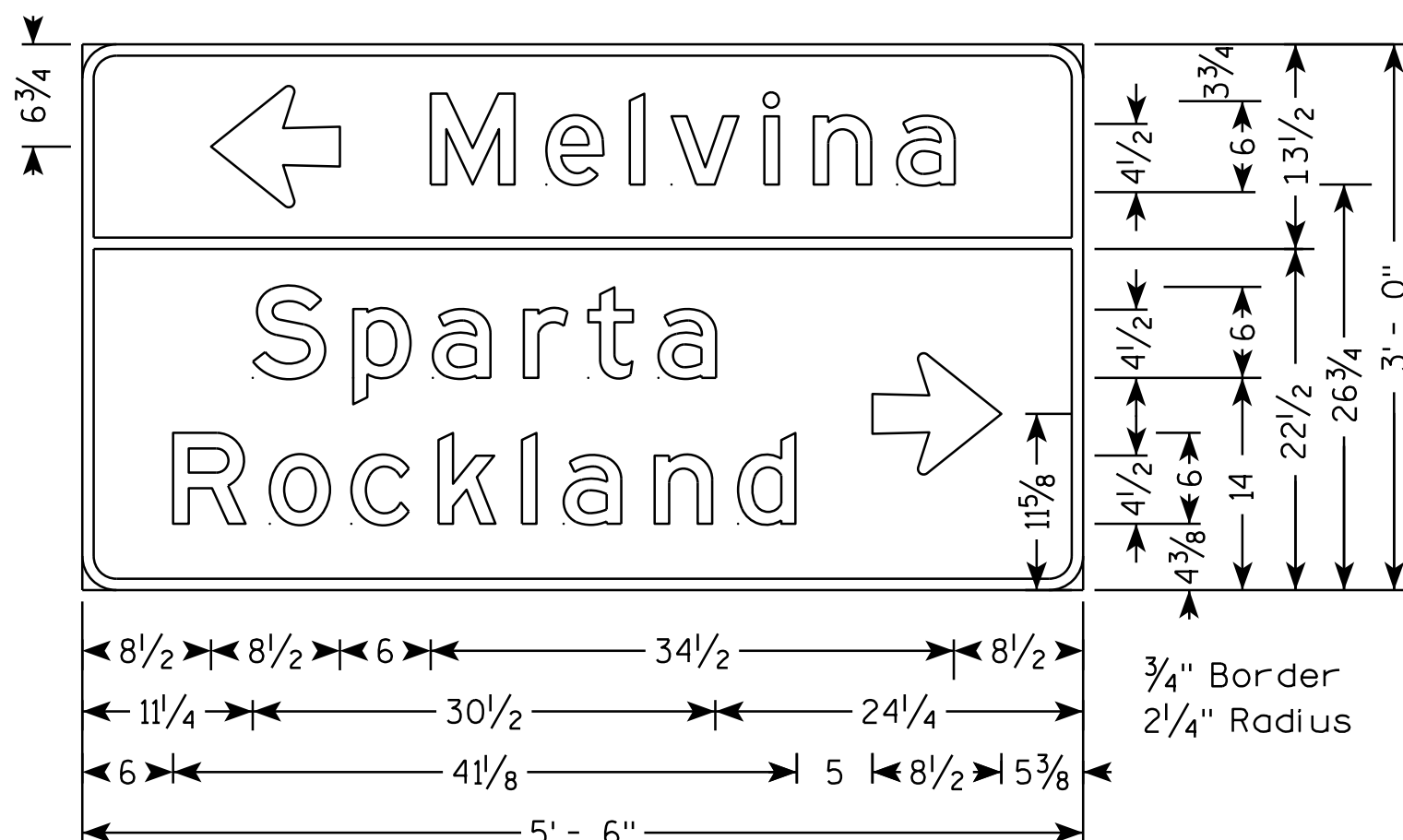
M1-94



M1-94

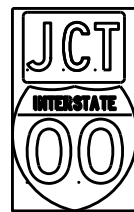
NOTES

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

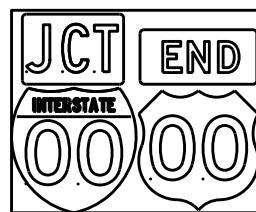


D1-3

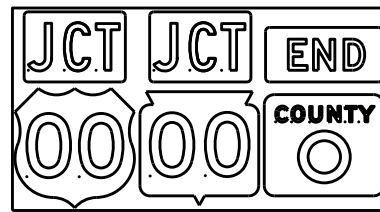
TYPICAL ASSEMBLIES



J1-1



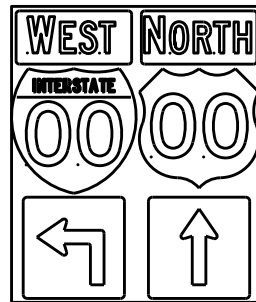
J1-2



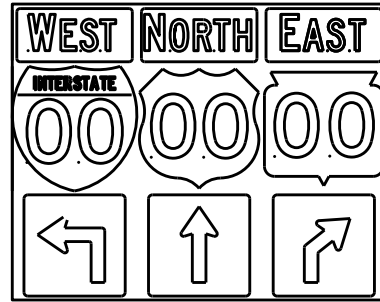
J1-3



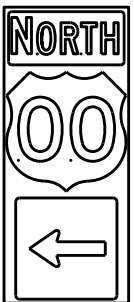
J2-1



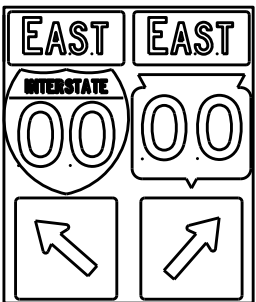
J2-2



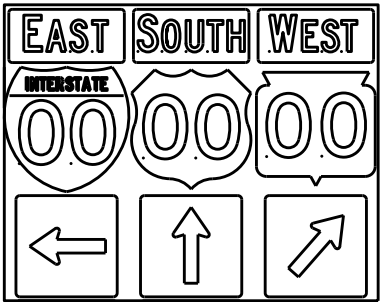
J2-3



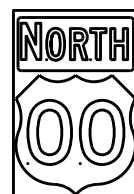
J3-1



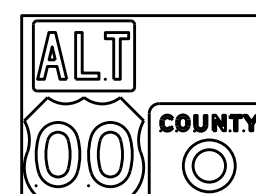
J3-2



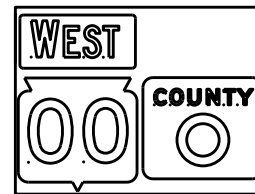
J3-3



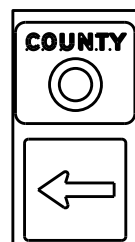
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

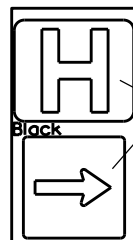


J22-1



JV

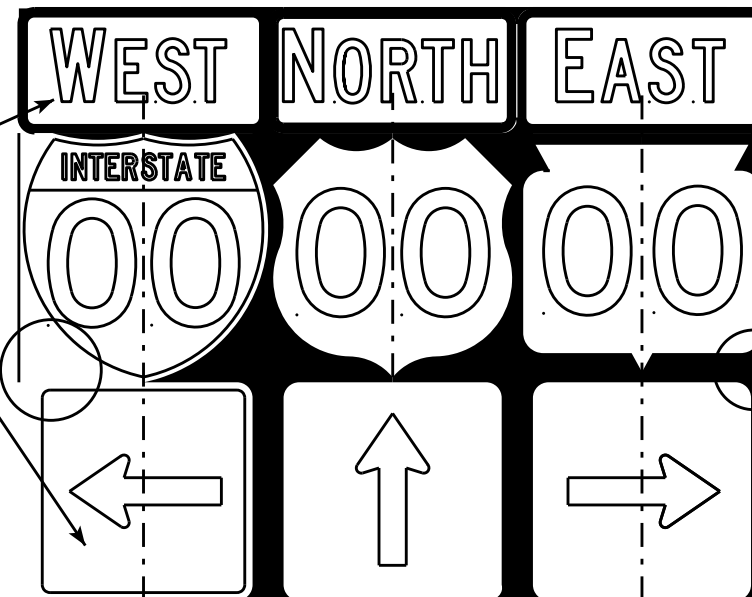
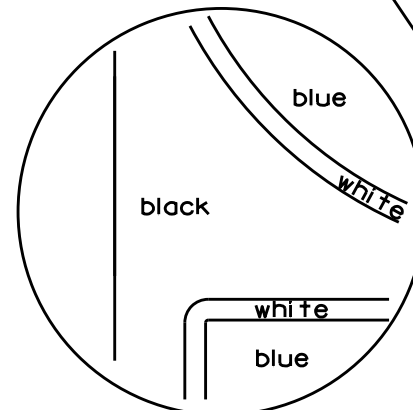
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

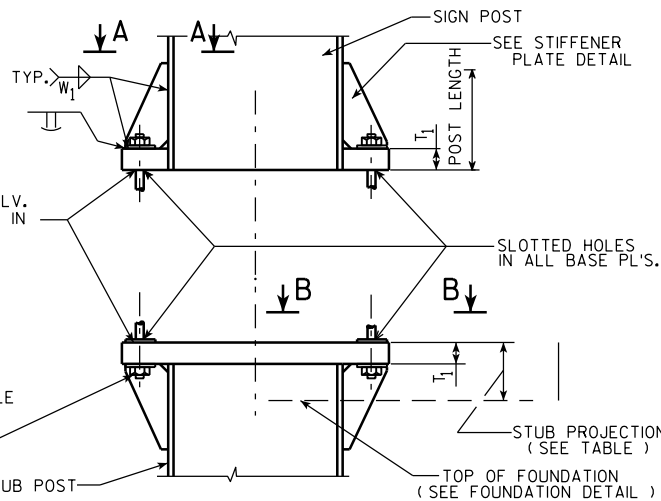
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/06/14 PL 147 A2-1S.8

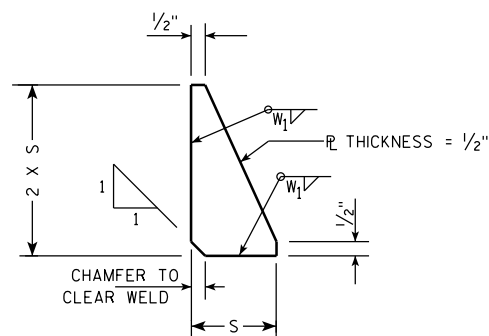
SHEET NO: E

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Black Non-reflective
Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 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.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

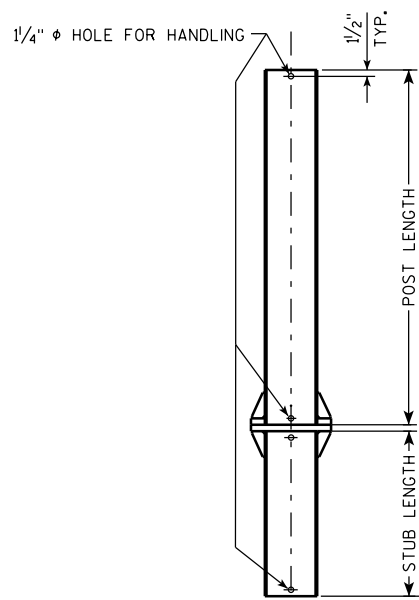


SIGN POST AND STUB POST ELEVATION

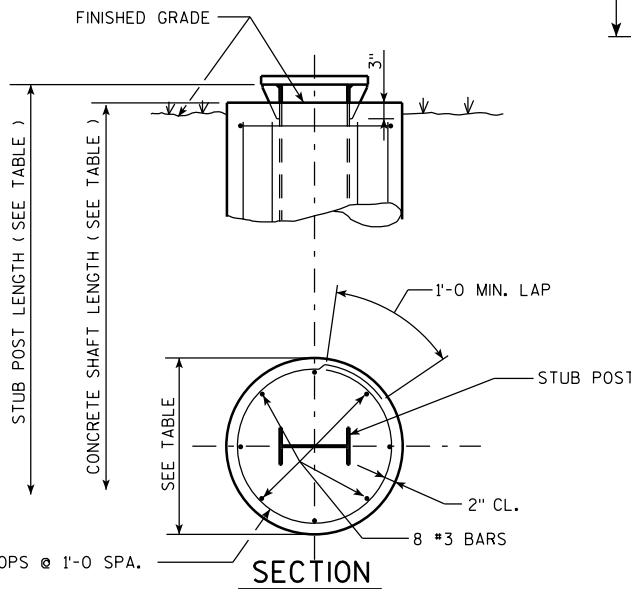
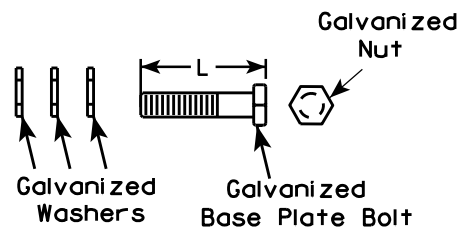


STIFFENER PLATE DETAIL

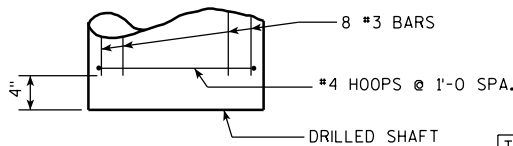
(SEE TABLE FOR DIMENSIONS)



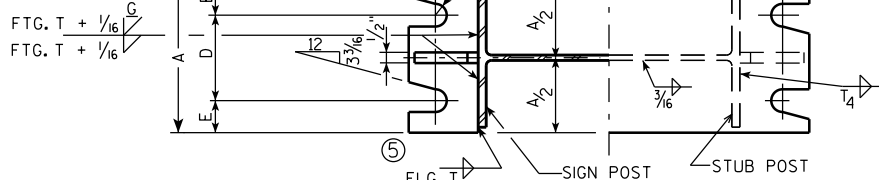
POST DETAIL



SECTION

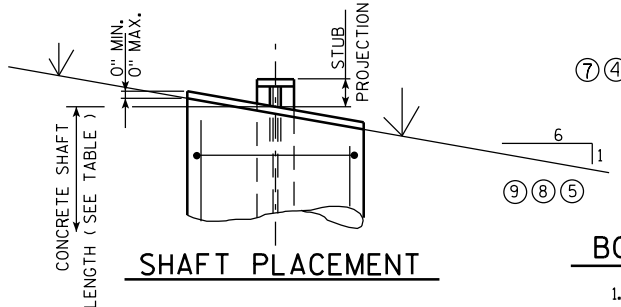


FOUNDATION DETAIL



SECTION A-A

SECTION B-B



SHAFT PLACEMENT

DESIGN DATA

WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.
GROUP LOADS PERCENT OF ALLOWABLE STRESS
1. DEAD 100
2. DEAD & WIND 140
3. DEAD, ICE & 1/2 WIND 140 25 P.S.F. MIN.
ALLOWABLE SOIL PRESSURE = 1/2 T / SQ. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

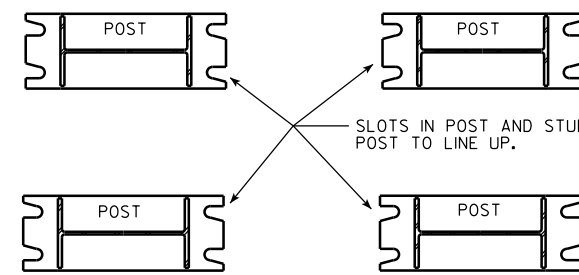
GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50.
THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
H.S. BOLTS, WASHERS & NUTS SHALL BE A325 GALVANIZED WHEN POSTS, POST STUBS, AND ATTACHMENTS ARE A709 GRADE 50 AND GALVANIZED.

BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
2. SHIM AS REQ'D. TO PLUMB POST.
3. PRIOR TO BOLT TIGHTENING LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
5. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.



POST SLOT ORIENTATION

QUANTITIES FOR 1 FOOTING			
	CONC. MASONRY	C.Y.	REINF. STEEL LBS.
A	0.6		34
B	0.8		49
C	0.9		50
D	0.9		56
E	1.0		62

7

REINF.	TYPE	#3		#4	
		8 @ 4'-5"	5 @ 6'-3"	7 @ 6'-3"	7 @ 6'-3"
7	A	8 @ 4'-5"	5 @ 6'-3"	7 @ 6'-3"	7 @ 6'-3"
	B	8 @ 6'-5"	7 @ 6'-3"	7 @ 6'-3"	7 @ 6'-3"
	C	8 @ 6'-11"	7 @ 6'-3"	7 @ 6'-3"	7 @ 6'-3"
	D	8 @ 7'-5"	8 @ 6'-3"	8 @ 6'-3"	8 @ 6'-3"
	E	8 @ 7'-11"	9 @ 6'-3"	9 @ 6'-3"	9 @ 6'-3"

				BASE CONNECTION DATA TABLE											FOUNDATION DATA				②
L	X	TYPE	DIMENSION POST SIZE	BOLT SIZE & TORQUE	A	B	C	D	E	T ₁	T ₄	W ₁	R	S	STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	K
3 ¾	④	A	W10"X12.0 #/FT.	¾" φ @ 75#-FT.	5/4"	1'-0 ¾"	7/8"	3 ½"	7/8"	1"	3/16"	5/16"	13/32"	2/8"	3'-6"	3"	2'-0 φ	5'-0"	76.0#
4 ¾	④	B	W12"X16.0 #/FT.	7/8" φ @ 85#-FT.	5/2"	1'-4/4"	1"	3 ½"	1"	1 ¼"	1/4"	5/16"	15/32"	3"	5'-6"	3"	2'-0 φ	7'-0"	146.5#
5		C	W12"X19.0 #/FT.	7/8" φ @ 85#-FT.	5/2"	1'-4/4"	1"	3 ½"	1"	1 ½"	5/16"	5/16"	15/32"	3"	6'-0"	3"	2'-0 φ	7'-6"	182.1#
5		D	W12"X22.0 #/FT.	7/8" φ @ 85#-FT.	5/2"	1'-4/4"	1"	3 ½"	1"	1 ½"	3/8"	5/16"	15/32"	3"	6'-6"	3"	2'-0 φ	8'-0"	210.5#
5	③	E	W12"X26.0 #/FT.	1" φ @ 90#-FT.	7"	1'-4/4"	1 ¼"	4"	1 ½"	1 ½"	3/8"	5/16"	17/32"	3"	7'-0"	3"	2'-0 φ	8'-6"	293.0#

1 6 1

STRUCTURAL CARBON STEEL PAY WTS. (1POST) = K + (POST LENGTH X POST WT.)
"K" INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

PROJECT NO:

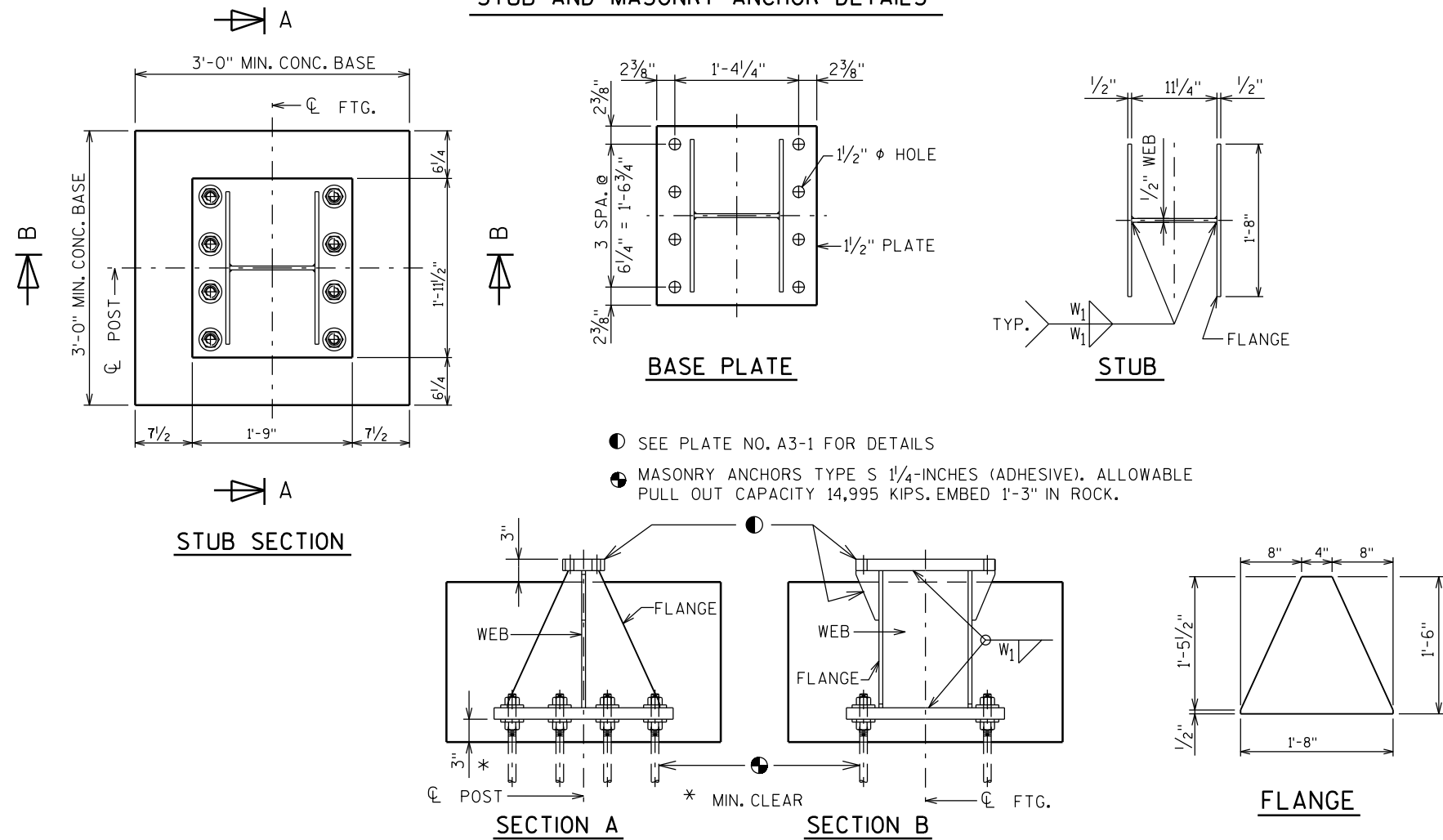
HWY:

COUNTY:

SHEET NO:

E

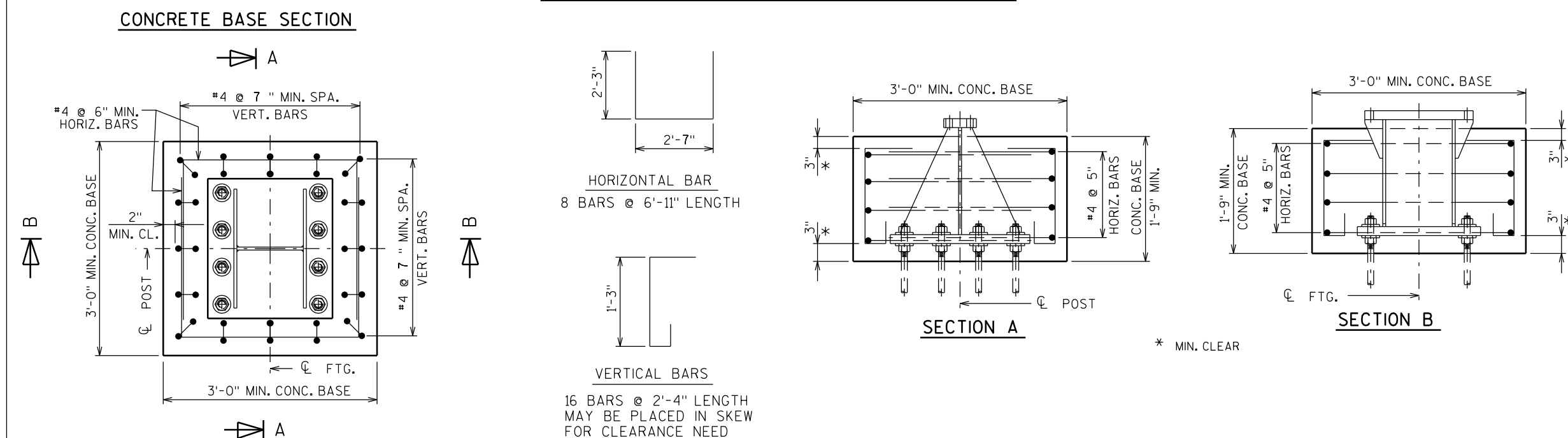
STUB AND MASONRY ANCHOR DETAILS



GENERAL NOTES

- Quantities per Base:
 - REINFORCING BAR STEEL = 62 LBS
 - CONCRETE = 0.6 C.Y.
 - STEEL WEIGHT = 335 LBS
- All materials, except anchor rod, nuts and washers, are to be A.S.T.M. A709 grade 50. All materials to be galvanized after fabrication.
- If the contractor encounters rock before reaching the footing depth, per the A3-1 Sign Detail, determine the pull-out capacity of a test adhesive anchor installed in the rock. If the test result equals or exceeds the pull-out capacity of 14,995 KIPS, the contractor may install the breakaway stub for rock, according to this detail.

CONCRETE BASE AND REINFORCING STEEL DETAILS



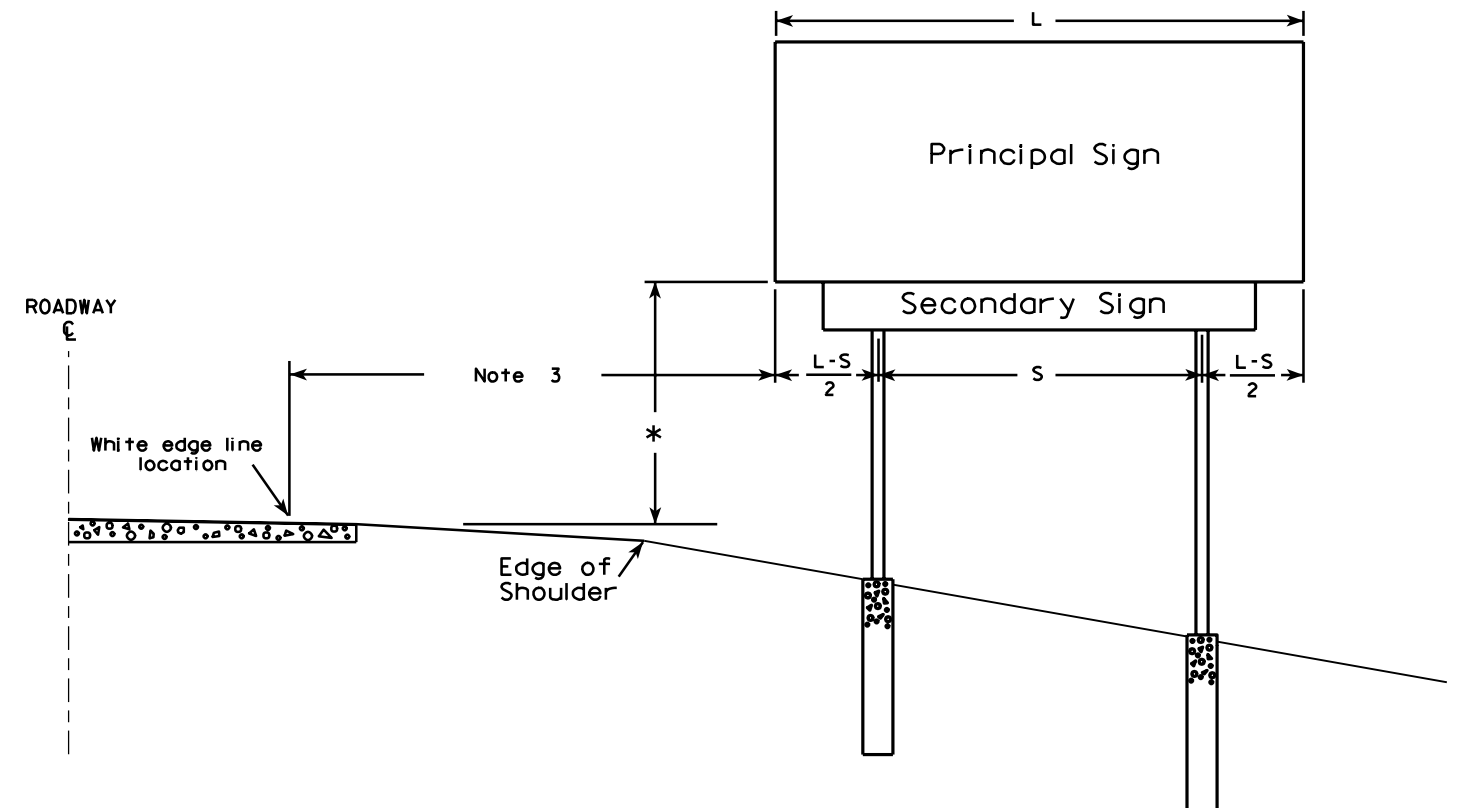
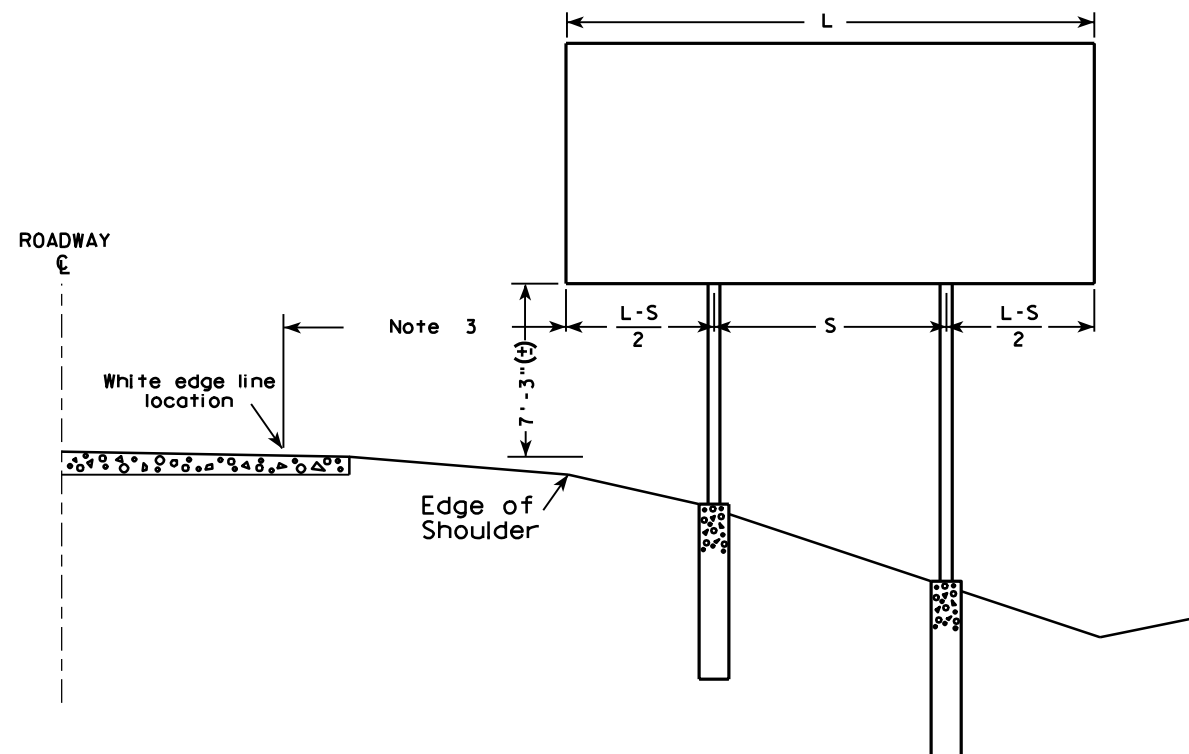
ALTERNATE BREAK-AWAY
BASE ON ROCK
A3-1M

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*

For State Traffic Engineer

DATE 2/06/2014 PL 149 A3-1M.1



GENERAL NOTES

1. For a 2 post installation, S equals $3L/5$, but shall not be less than 9 ft.
2. For a 3 post installation, S equals $5L/7$, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
4. The (±) tolerance shown on this sheet is 3 in.
5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.

* Clearance is 8'-3" (±) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3" (±).

TYPICAL INSTALLATION OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

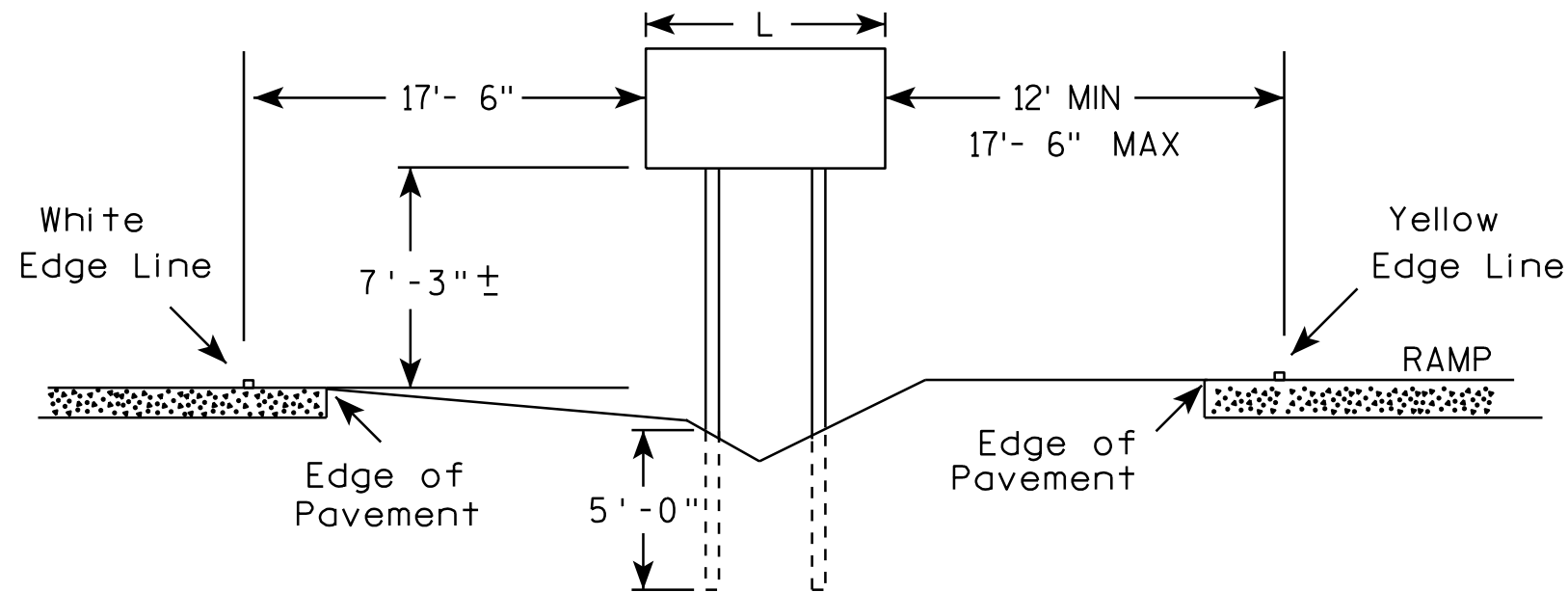
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/02/08 PLATE NO. A4-1.9

PROJECT NO:

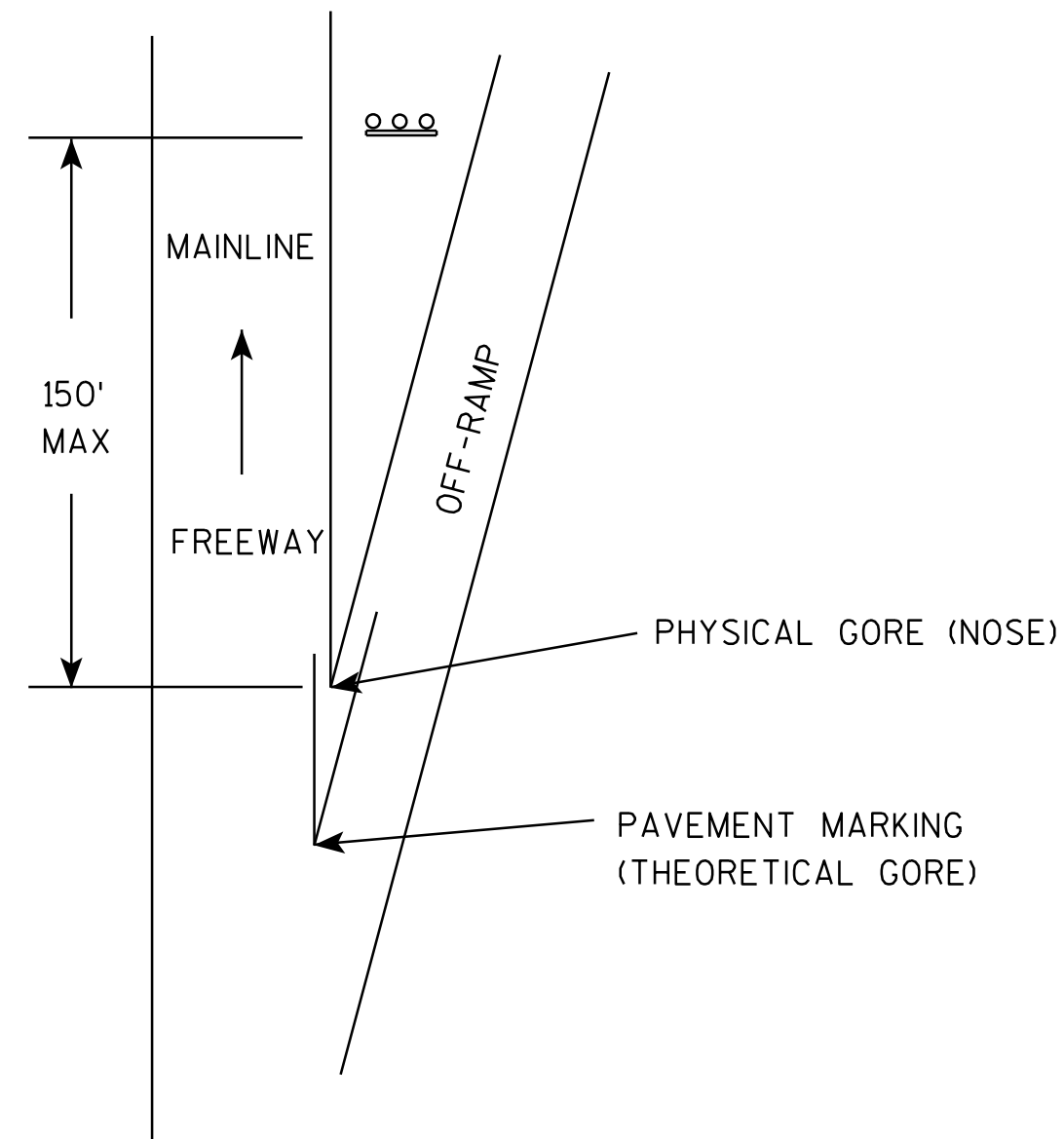
SHEET NO: 150

E



GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The ($\pm$) tolerance for the mounting height is 3 inches.



TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

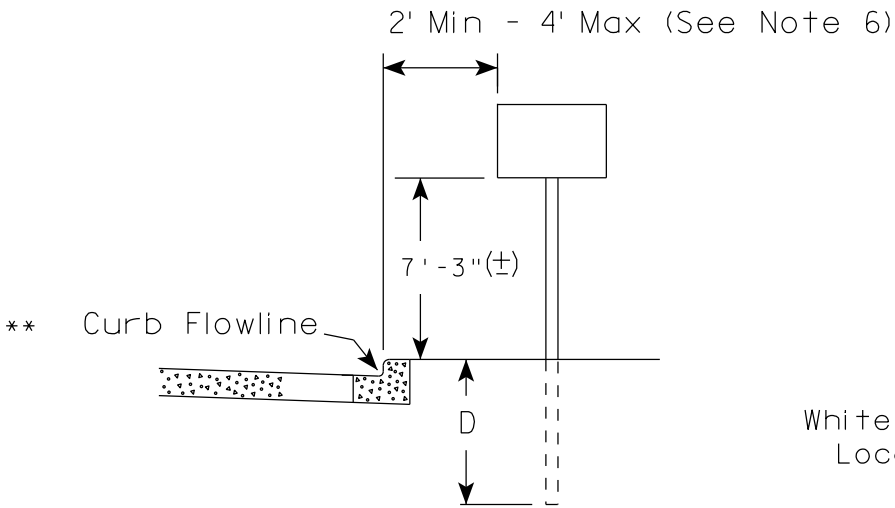
DATE 2/06/14 PLA 151 A4-2.3

PROJECT NO:

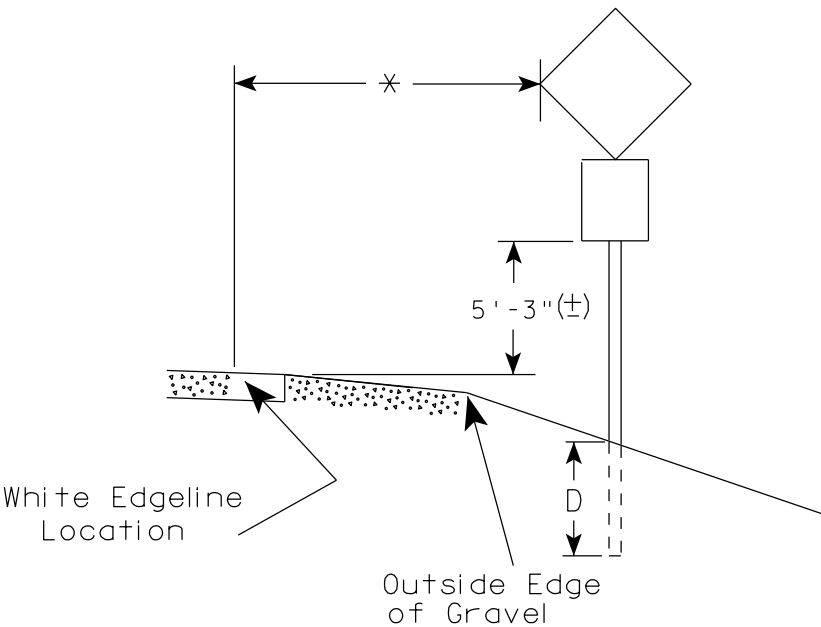
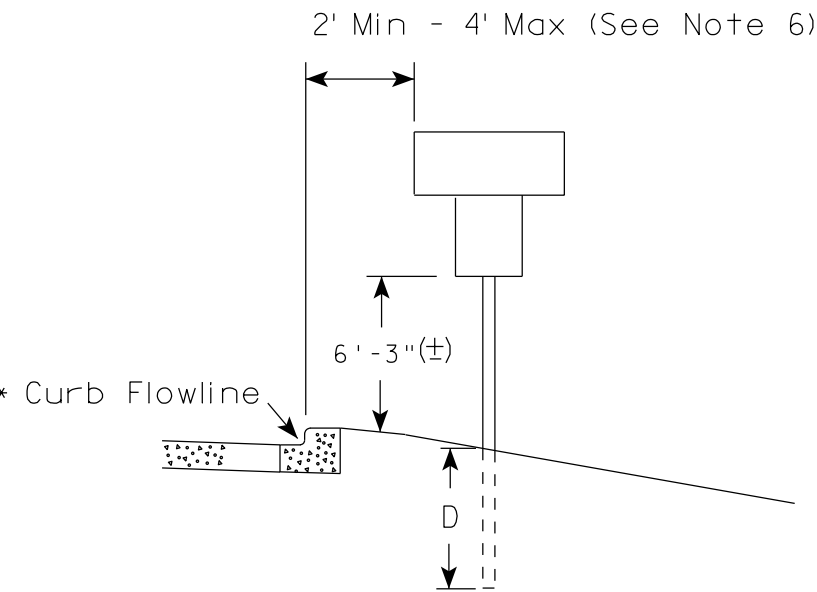
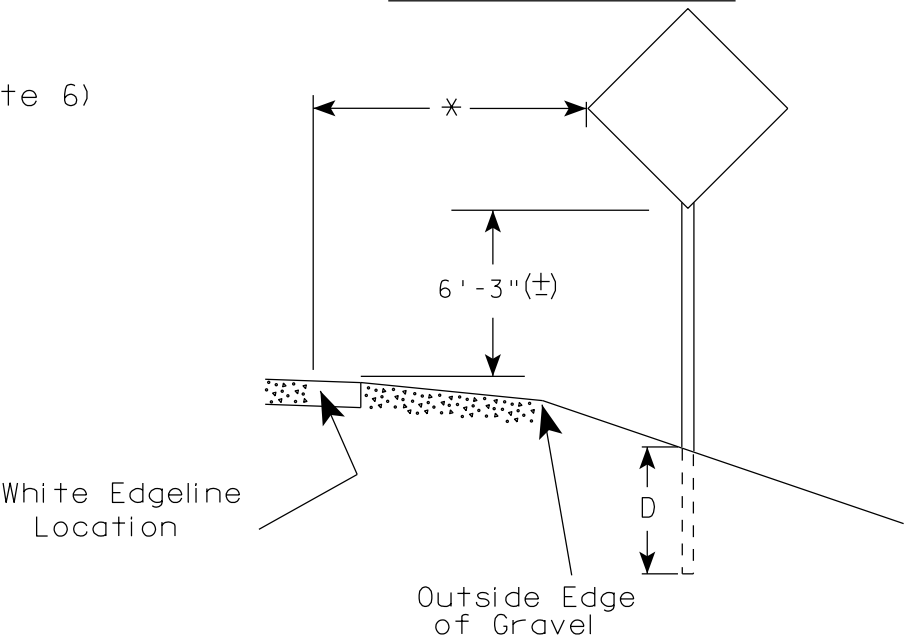
SHEET NO:

E

URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on 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.

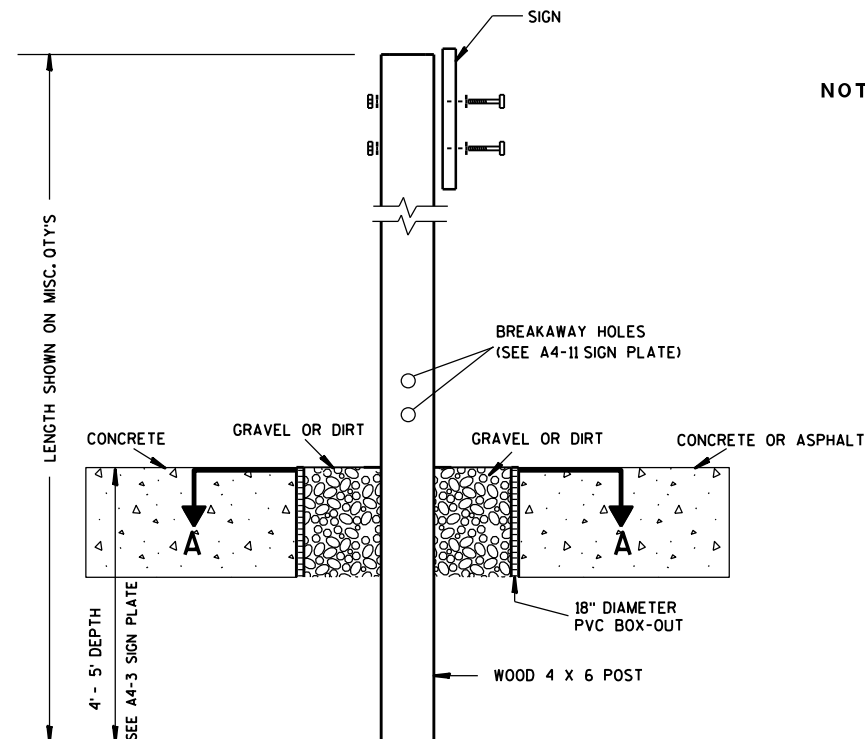
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

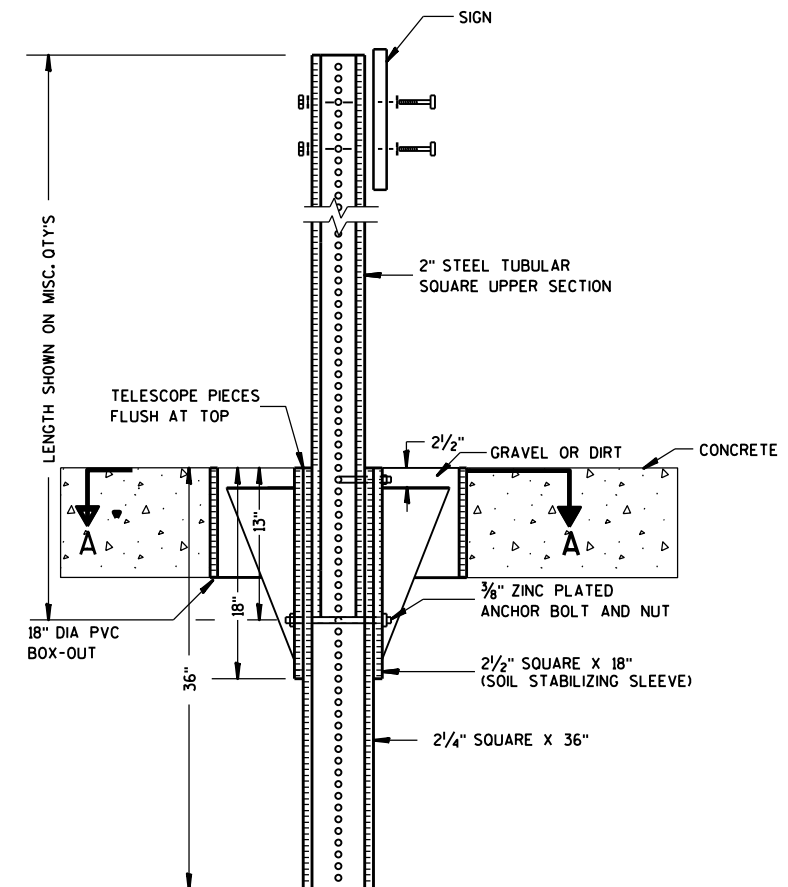
DATE 7/23/15 PLATE NO. A4-3.20



ELEVATION VIEW

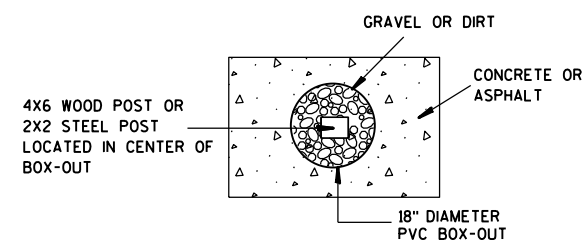
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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 PLAT 153 A4-3B.1

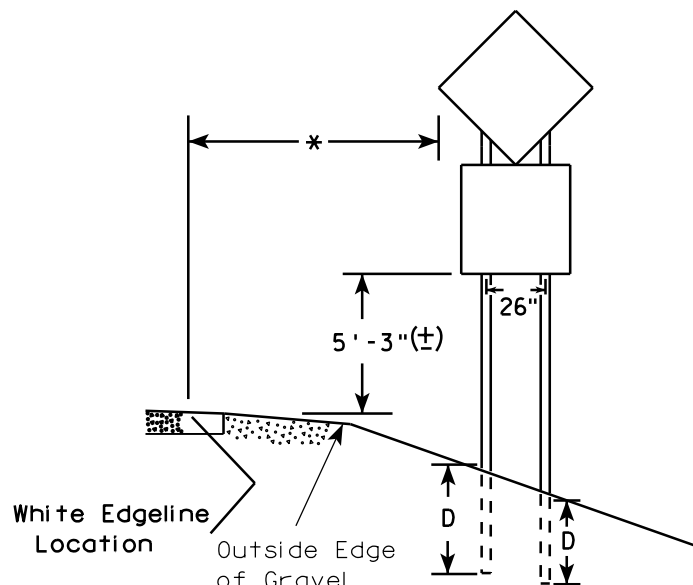
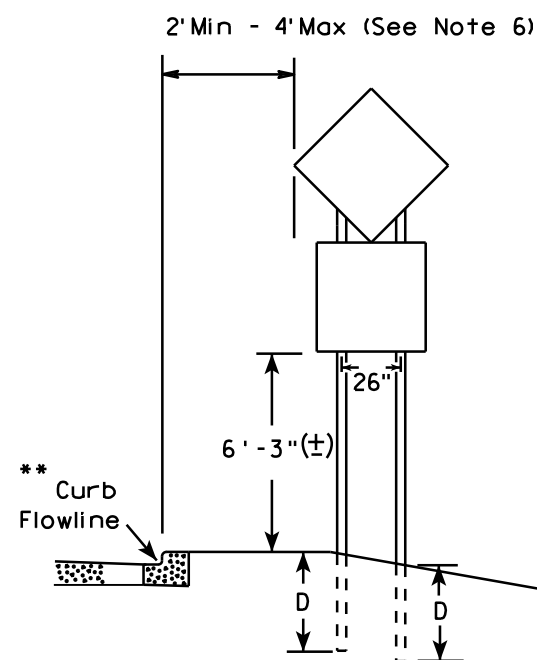
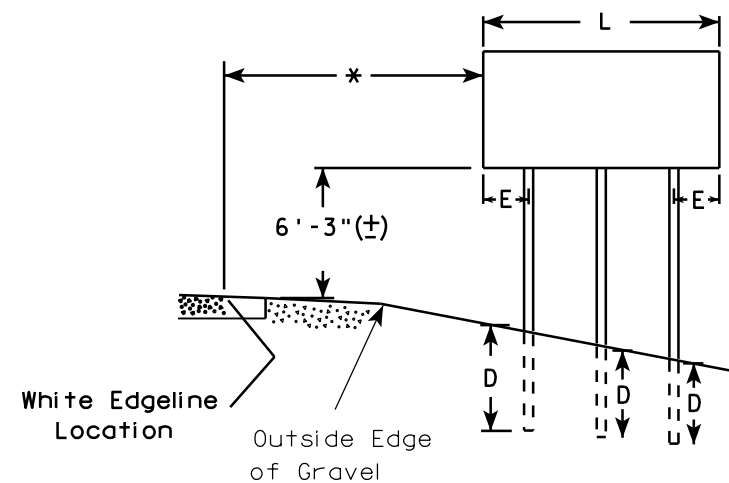
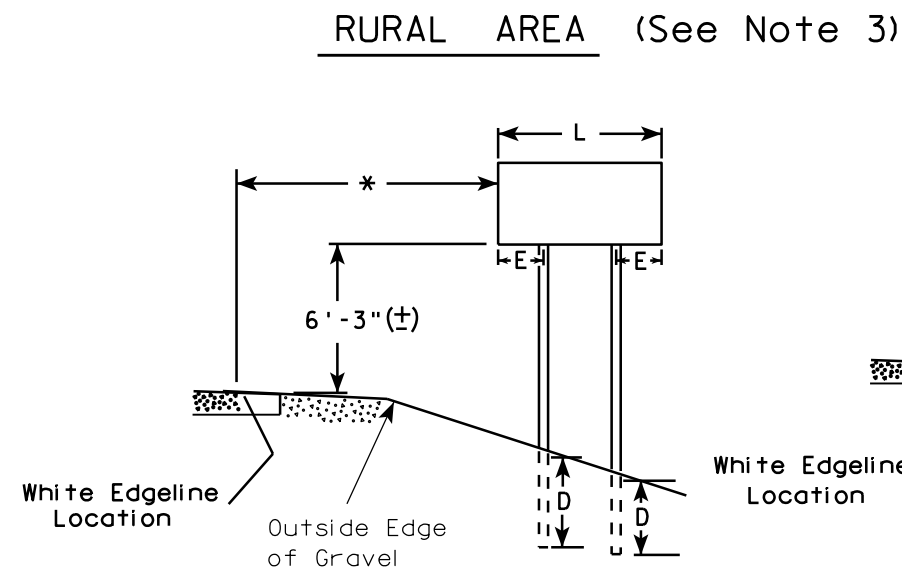
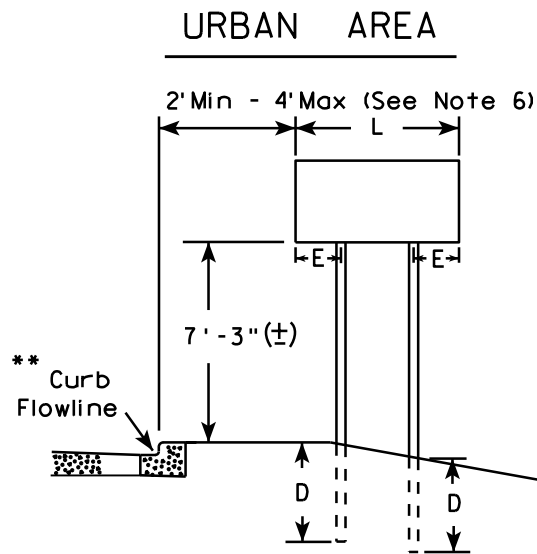
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



48" DIAMOND WARNING SIGN

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

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

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

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

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

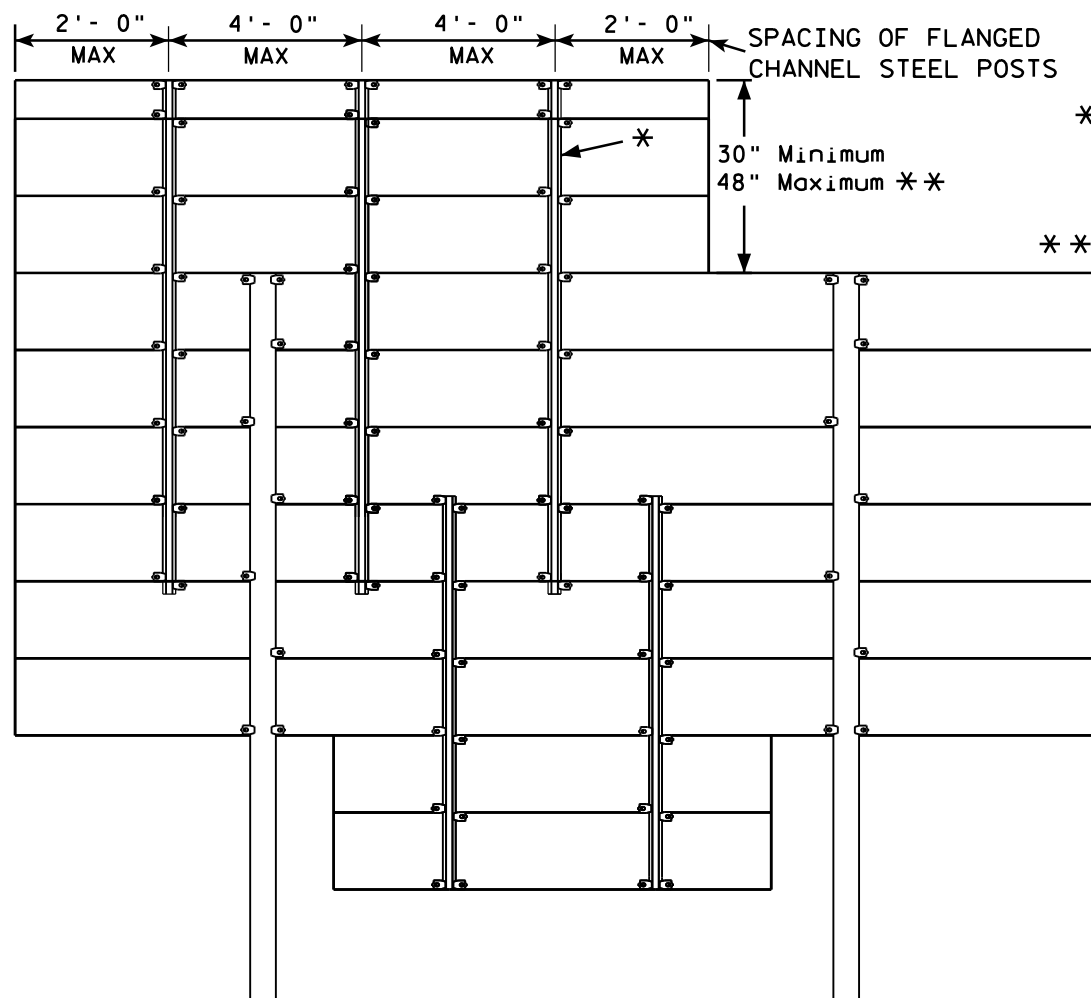
SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

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	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 7/23/15	PLATE NO. ^{A4-A} 154 ¹⁴

GROUND MOUNTED SIGN

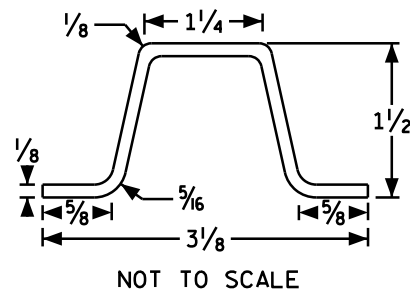


* = 2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

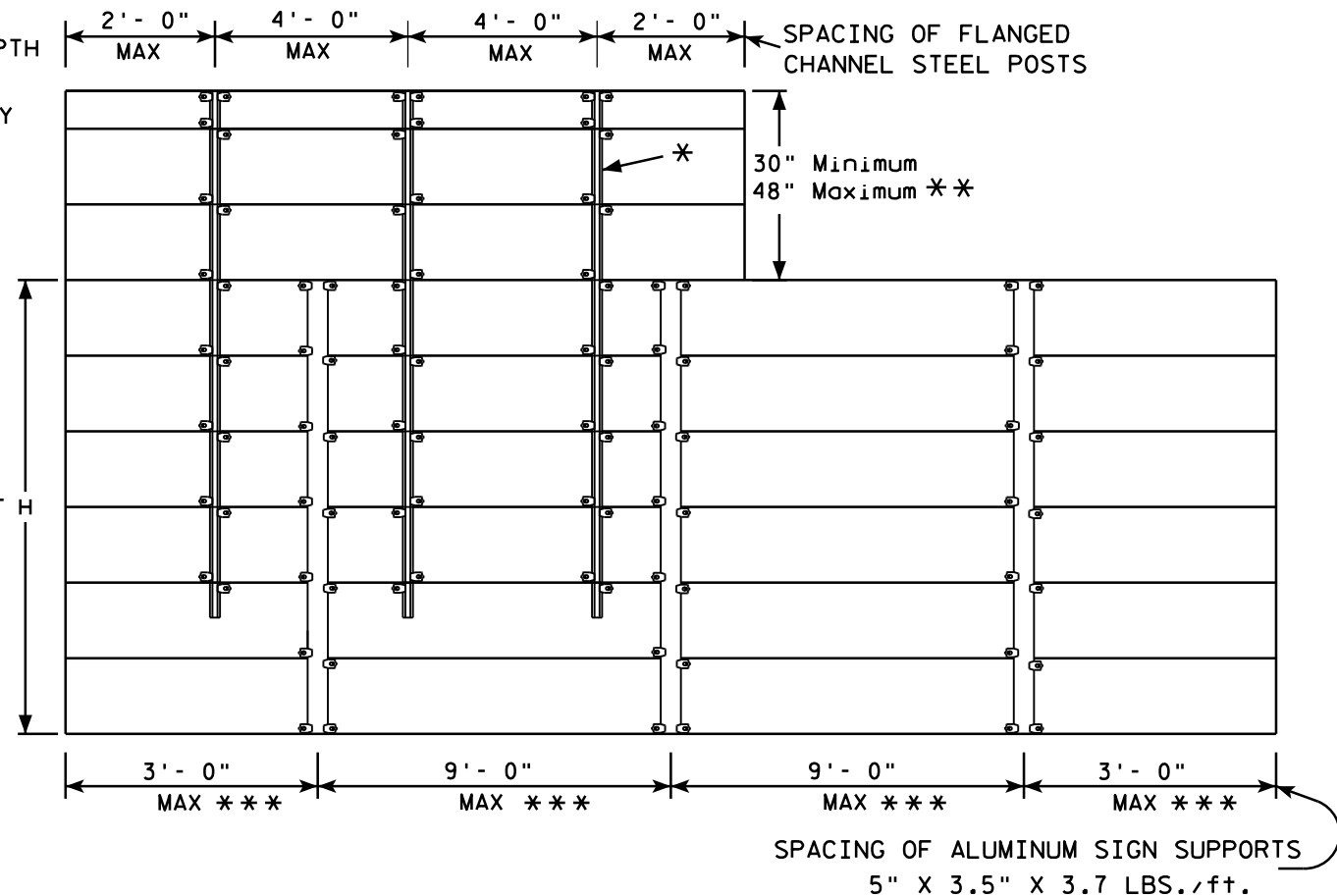
** = FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL



SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:
PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
PANEL LENGTH 9'-0" - 12'-0" = 3 CHANNELS
PANEL LENGTH 13'-0" OR MORE = 4 CHANNELS
If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.

3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 12/05/13

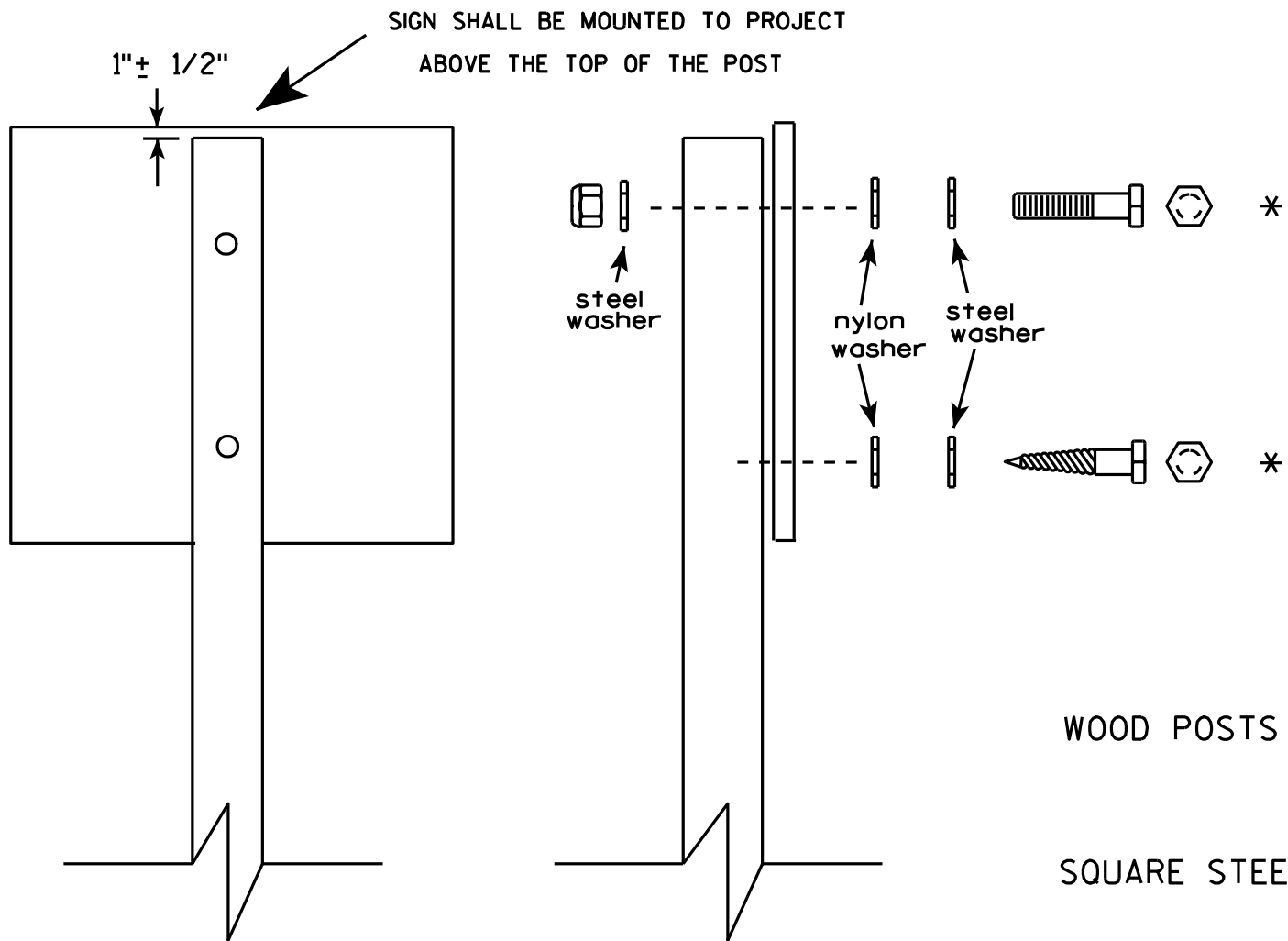
PLAT 155

4-6.12

PROJECT NO:

SHEET NO:

E

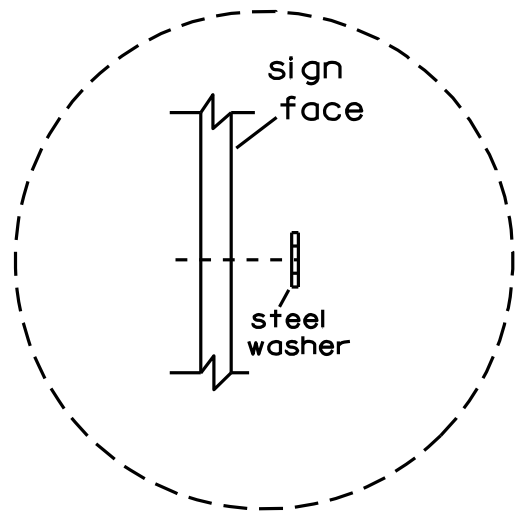


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

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

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

- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3"
- MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
- RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
- 1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.

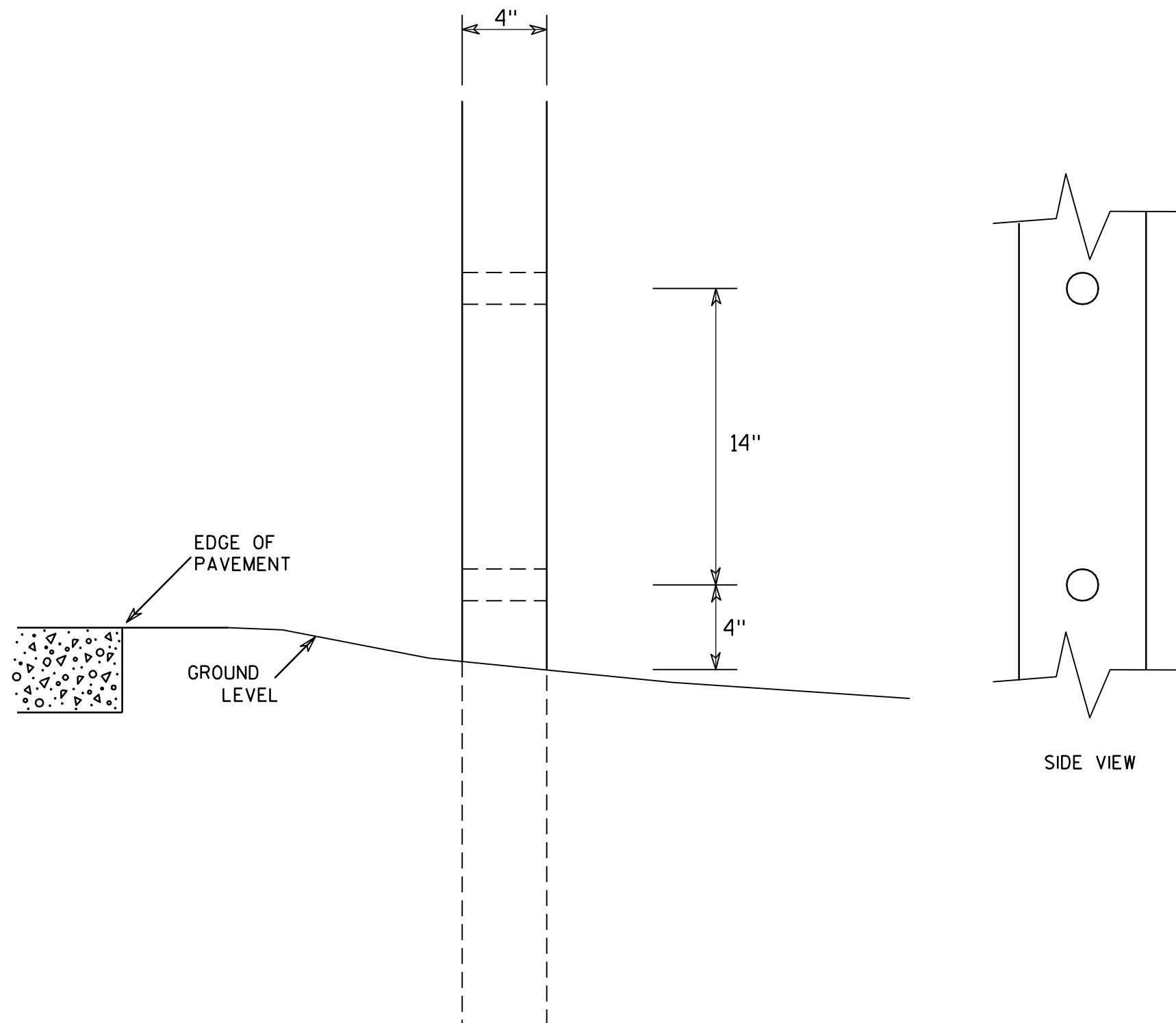


Washer Placement when Sign Has Other Than Type H or Type F Face

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

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7

7



GENERAL NOTES

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

7

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:

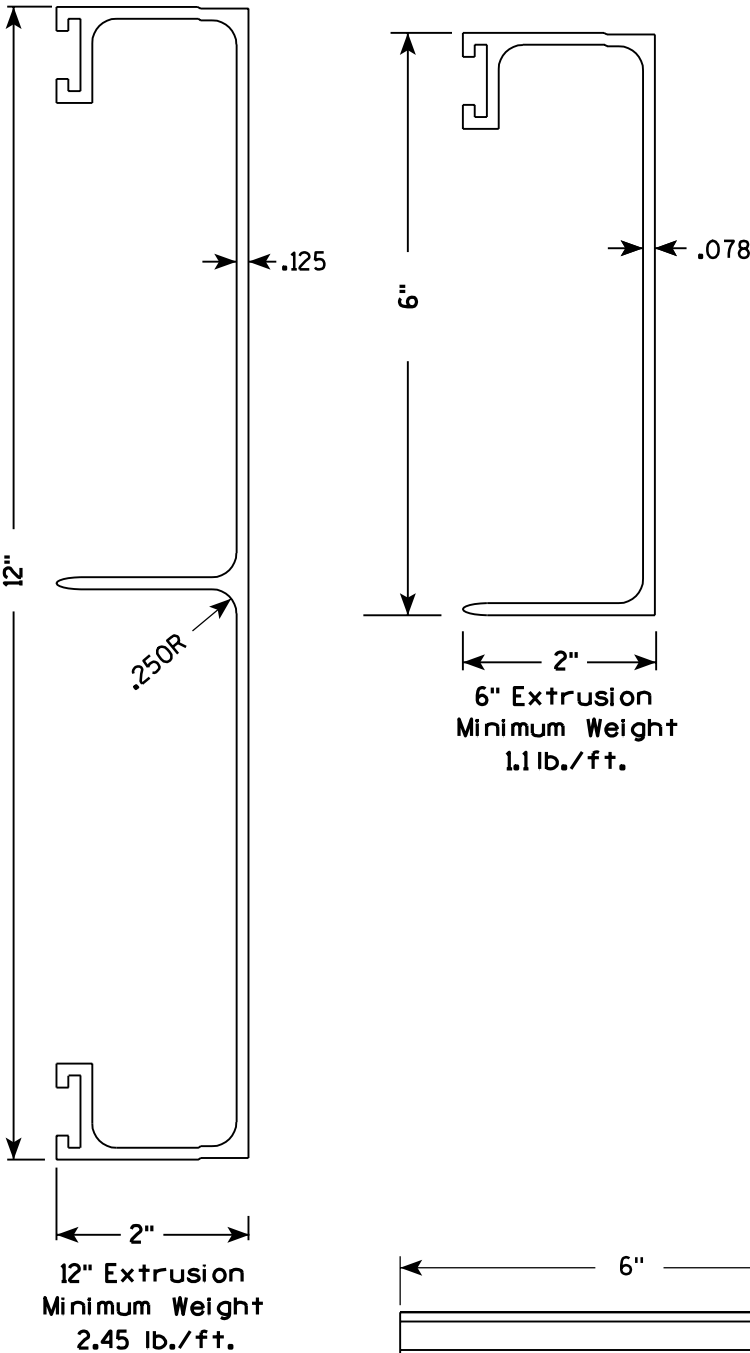
COUNTY:

SHEET NO: 157

E

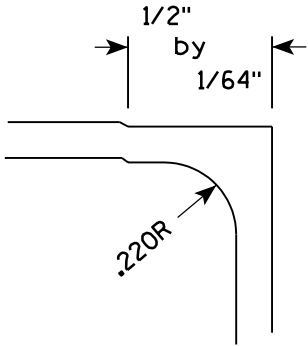
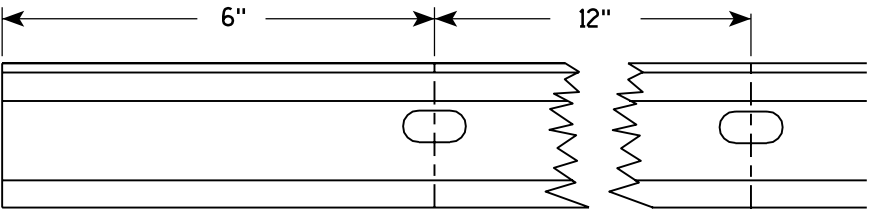
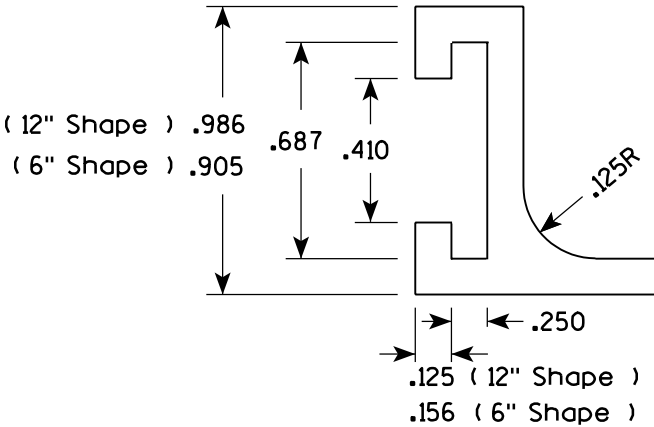
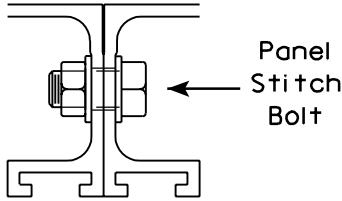
Extruded Shape

Hardware



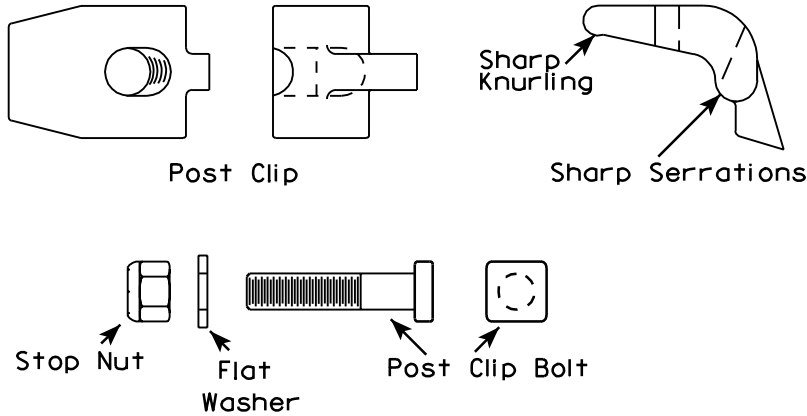
STITCH BOLT, WASHER & NUT

The hardware includes:
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.



NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.

ALUMINUM EXTRUSIONS FOR
TYPE I SIGNS

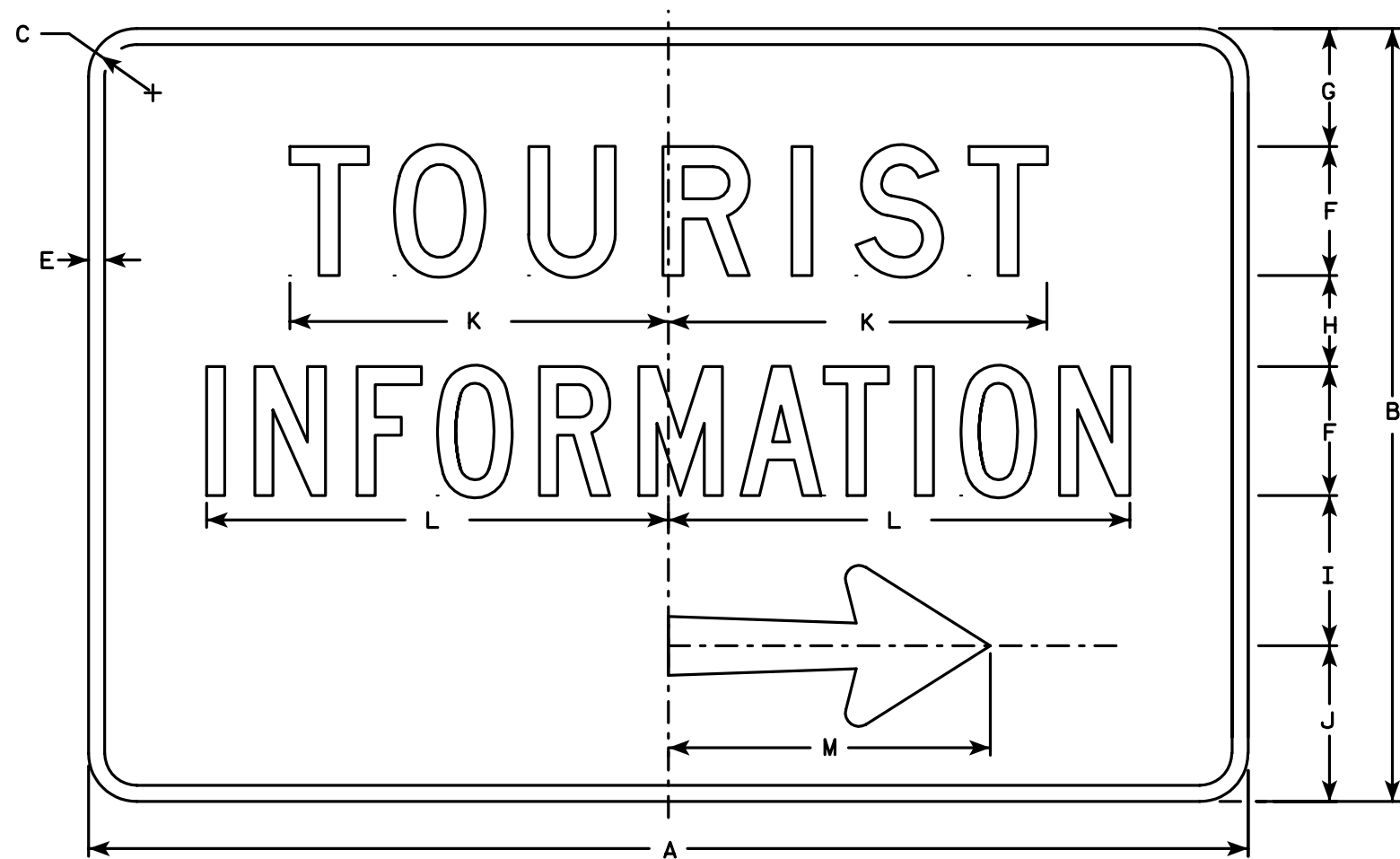
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Chester J. Spang*
for State Traffic Engineer
DATE 11/18/99 PLATE NO. A5-2.9

58, 59, 60, 61, 62, 63

7

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



D7-59R

Metric equivalent
for this sign is:

SIZE	
1	
2	1350 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	54	36	2 1/4		3/4	6	5 1/2	4 1/4	7	7 1/4	17 5/8	21 1/2	15	2 3/4	1/8	2 1/8	6 1/8	5/8	3 1/8								13.5	1.22
3																												
4																												
5																												

STATE PROJECT NUMBER:

FILE NAME : C:\Users\Projects\tr_std\late\D759.DGN

PLOT DATE : 22-JAN-2002 08:12

ORG DATE : 5/21/97

Originator : Don Kluever

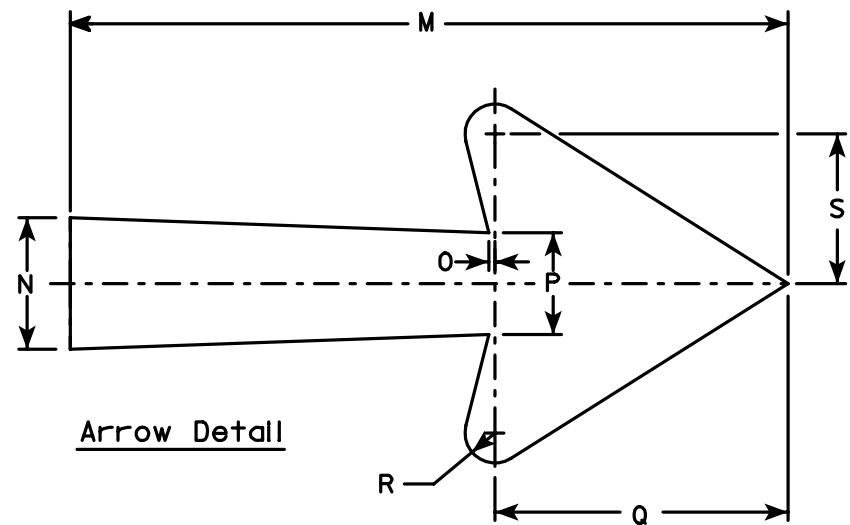
STANDARD SIGN D7-59	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Chita J. Spay</i> State Traffic Engineer
DATE 1/11/02	PLATE NO. D7-59.6

SHEET NO: 159

E

NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Blue
Message - White - Type H Reflective
- Message Series - See note 5
- 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.
- Line 1 are series D
Line 2 is series C
- D7-59L is same as D7-59R except the arrow is reversed.



Arrow Detail

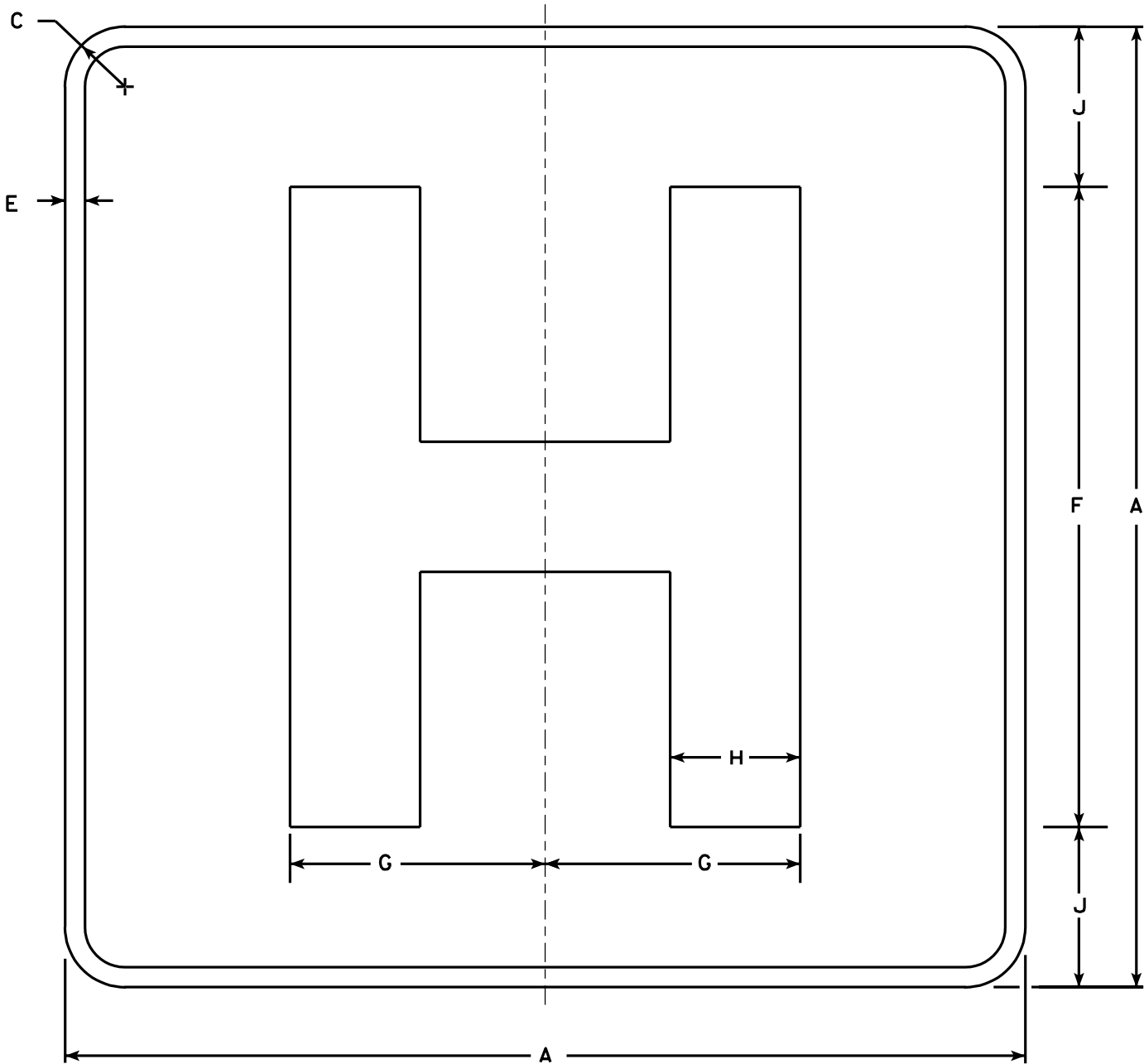
7

7

Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											



D9-2

NOTES

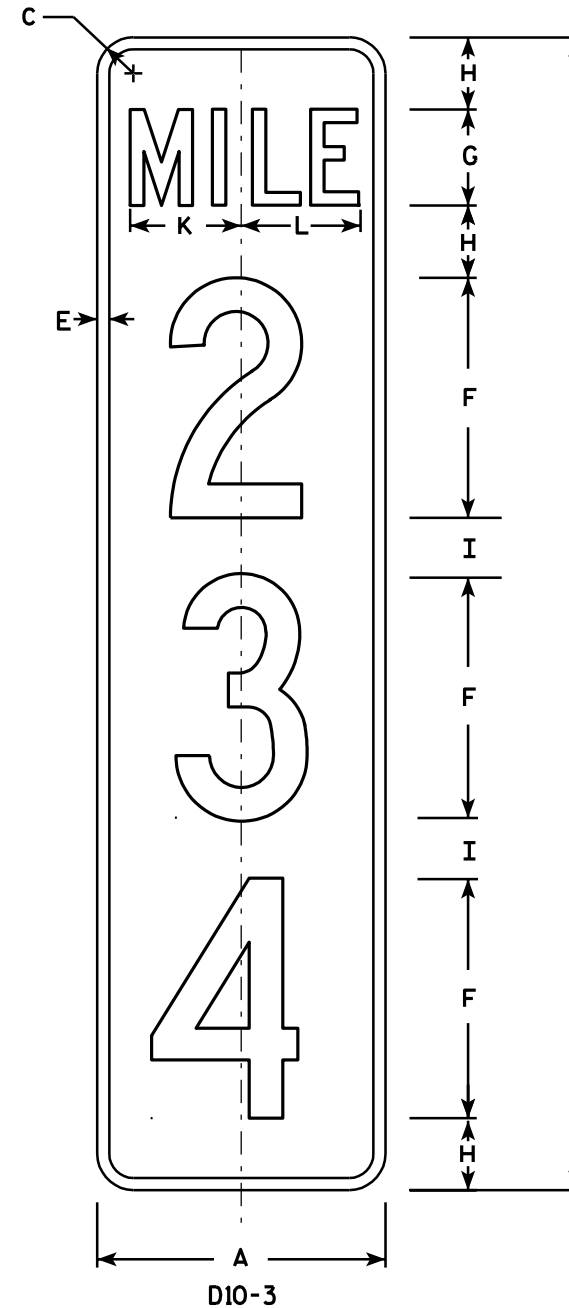
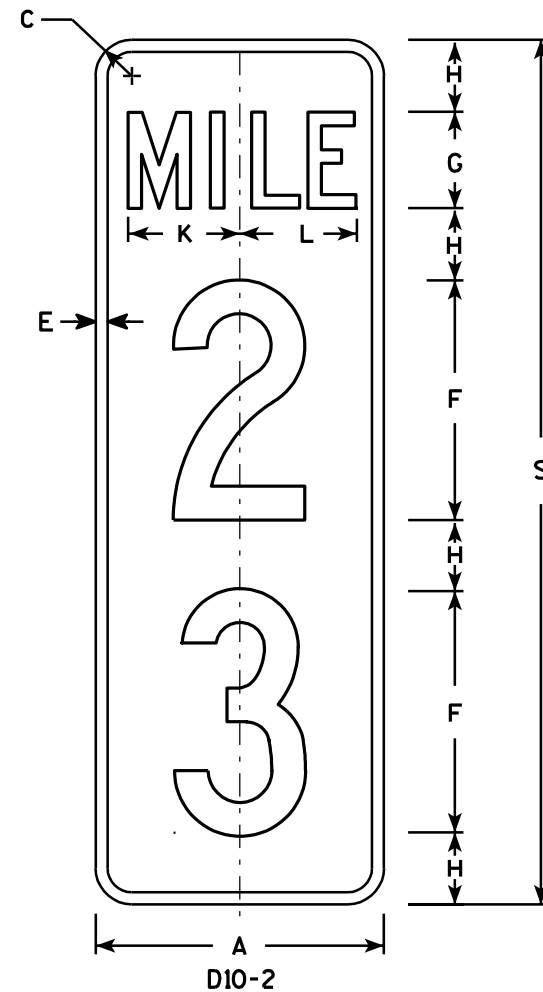
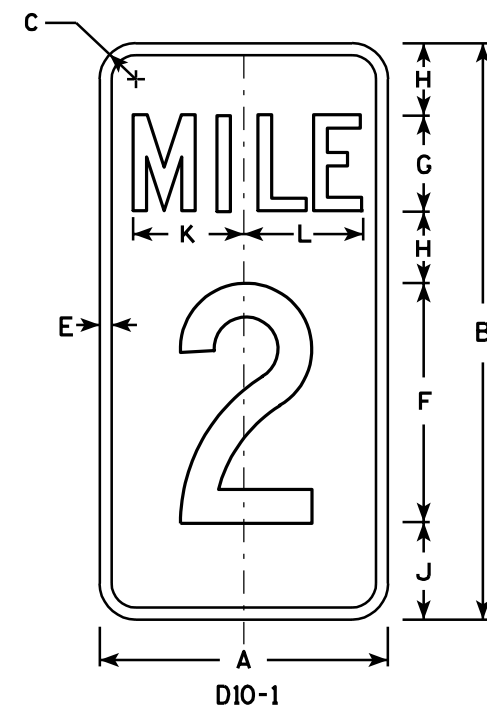
- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Blue
Message - White - Type H Reflective
- Message Series - E Modified
- Corners may be square or rounded when base material is plywood but borders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

STANDARD SIGN
D9-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Chester J. Spang
for State Traffic Engineer

DATE 1/15/02 PLATE NO. D9-2.4



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 - Background - Green
 - Message - White - Type H Reflective
3. 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. Optically adjust numerals about the centerline of the sign to achieve proper balance.

7

Metric equivalent
for this sign is:

PHY. SIZE	
12 X 24	300 mm X 600 mm
12 X 36	300 mm X 900 mm
12 X 48	300 mm X 1200 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
1																										
2																										
3																										
4	12	24	1 1/2		1/2	10	4	3	2 1/2	4	4 5/8	4 7/8							36	48						
5	12	24	1 1/2		1/2	10	4	3	2 1/2	4	4 5/8	4 7/8							36	48						

D10-1	D10-2	D10-3
Area sq. ft.	Area sq. ft.	Area sq. ft.
2.0	3.0	4.0
Area m ²	Area m ²	Area m ²
.19	.28	.38

STANDARD SIGN
D10-1 , D10-2 & D10-3

WISCONSIN DEPT OF TRANSPORTATION

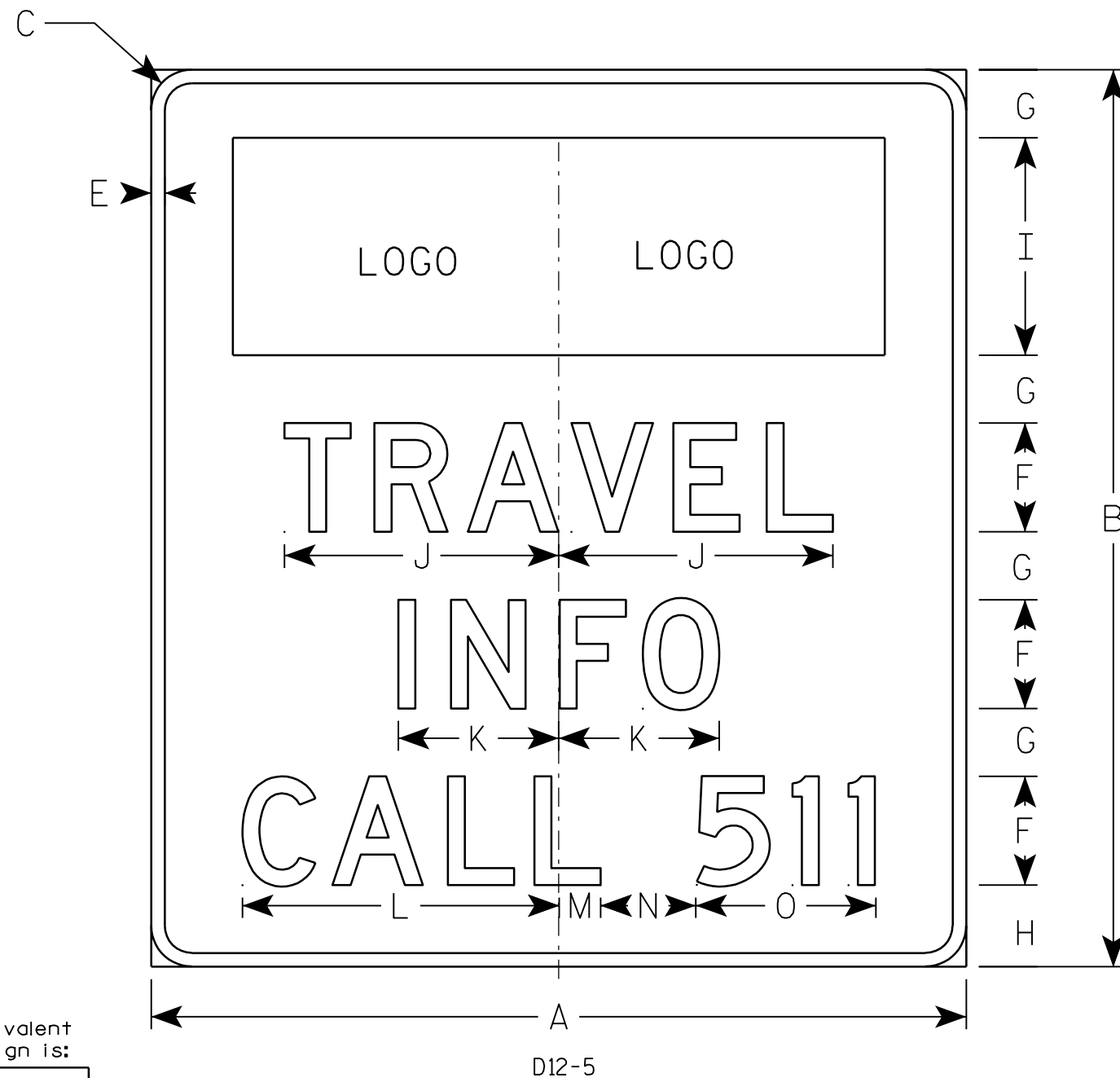
APPROVED Chester J Spang
for Director, Office of Traffic

DATE 1/16/02 PLATE NO. D10-3.2

PROJECT NO:

SHEET NO: 161

E



NOTES

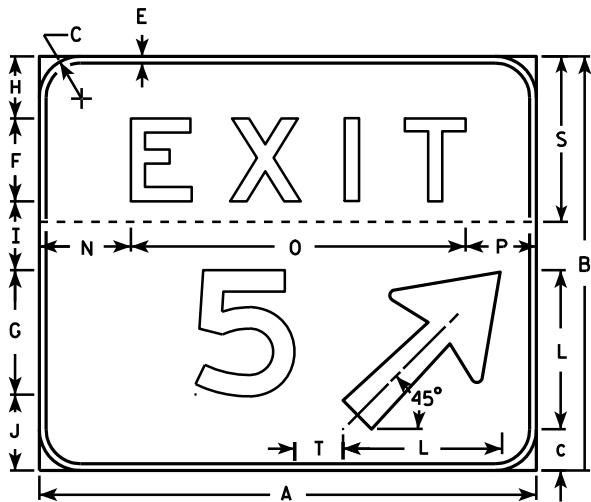
1. Sign is Type II - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Blue
Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders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

Metric equivalent
for this sign is:

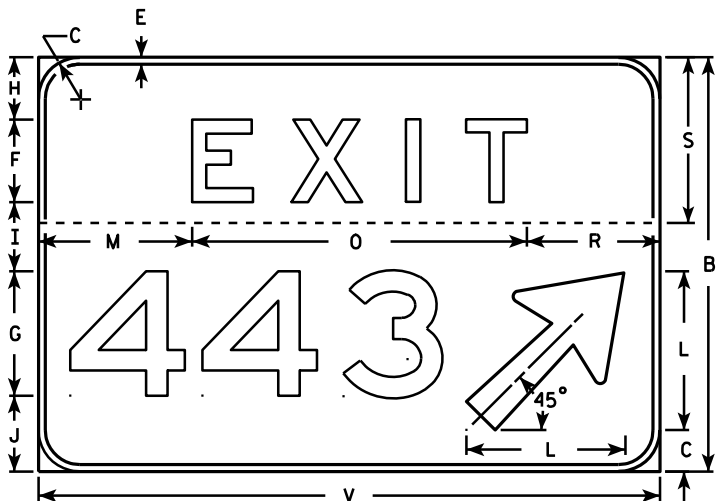
SIZE	
1	
2	1500 mm X 1650 mm
3	
4	
5	

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 m ²
1																												
2	60	66	2 1/4		1	8	5	6	16	20 1/4	11 7/8	23 3/8	3 1/8	7	13 1/4												27.5	2.48
3																												
4																												
5																												

STANDARD SIGN D12-5	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Raush</i> for State Traffic Engineer
DATE 12/5/08	PLATE NO. D12-5.2



NOTE: T dimension shall be measured from the back of the number to the front of the arrow



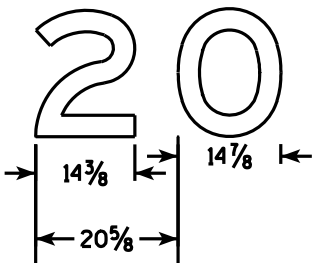
NOTES

1. Sign is Type II - Type H reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green
Message - White (Type H reflective)
3. Message Series - E
4. Corners may be square or rounded but the border shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two separate pieces as shown on each detail by the dashed line (-----).
6. Arrow is Type "A" from sign plate A1-1.
7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8			
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8			
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4			
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8			
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8			
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8			
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4			
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8			
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4			
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

EXAMPLE FOR USING SPACING CHART



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
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	8 ⁷ / ₈	23	22 ¹ / ₄	13 ¹ / ₄	48 ¹ / ₂	10 ¹ / ₄		19 ¹ / ₄	24	7		90		96	7 ¹ / ₂	

1-2 Digit Bid Area	3 Digit Bid Area
Sq. Ft.	
30	37.5

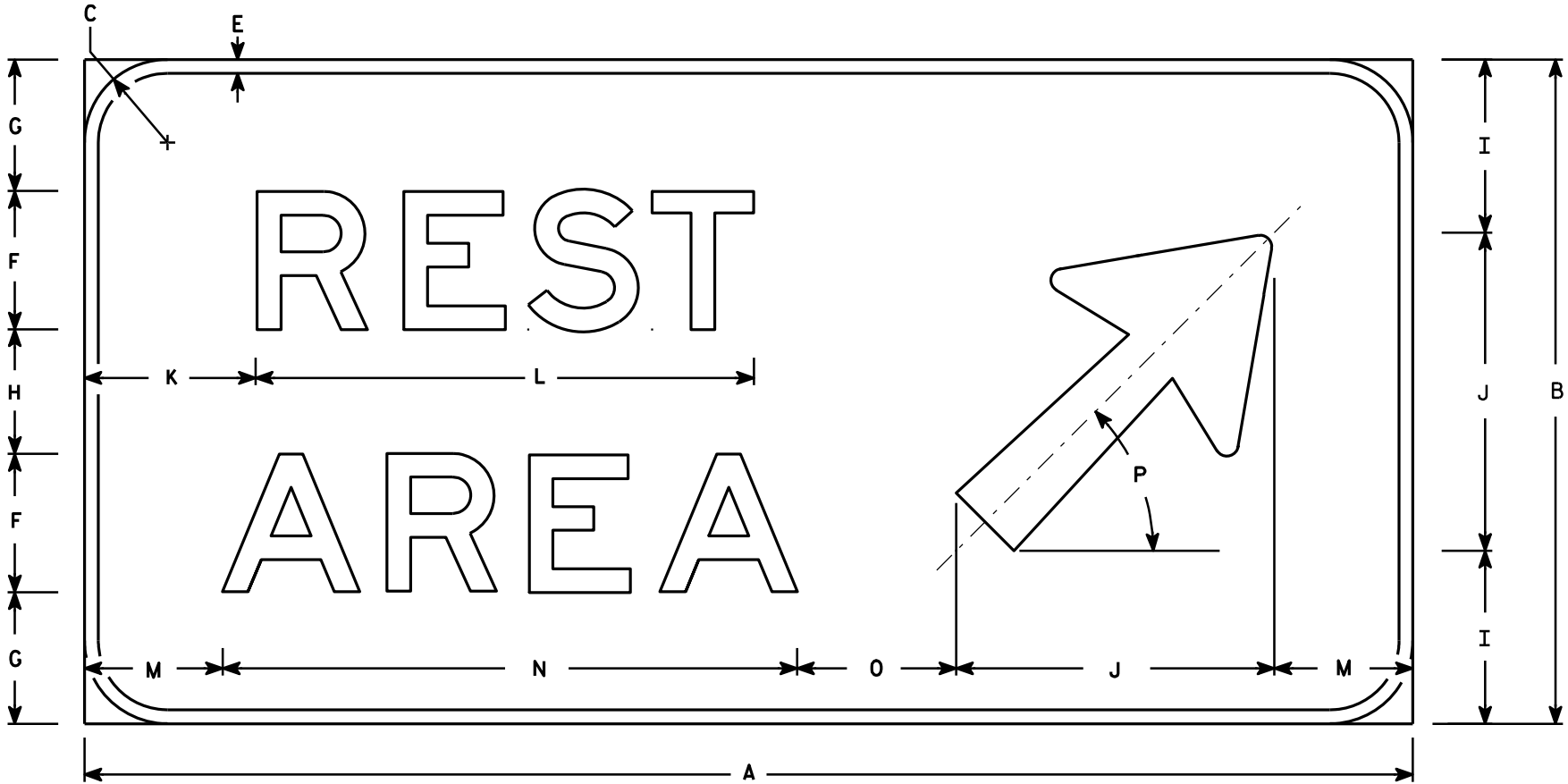
STANDARD SIGN
E5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 5/11/10 PLATE NO. E5-1A.12

NOTES

- 1. Sign is Type I - Type SH Reflective - reference WIS DOT Standard Specification for ROAD and BRIDGE CONSTRUCTION latest edition.
- 2. Color:
 - Background - Blue
 - Message - White
- 3. Message Series - E
- 4. Arrow is standard Interstate Type A.



E5-52

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																											
3																											
4	96	48	6		1	10	9 1/2	9	12 1/2	23	12 3/8	36 3/8	10	41 1/2	11 1/2	45°											32.0
5	144	54	6		2	15	8	8	13	28	20 1/4	62	16 1/4	68	15 1/2	45°											54.0

STANDARD SIGN
E5-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 1/30/13 PLATE NO. E5-52.11

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 164

E

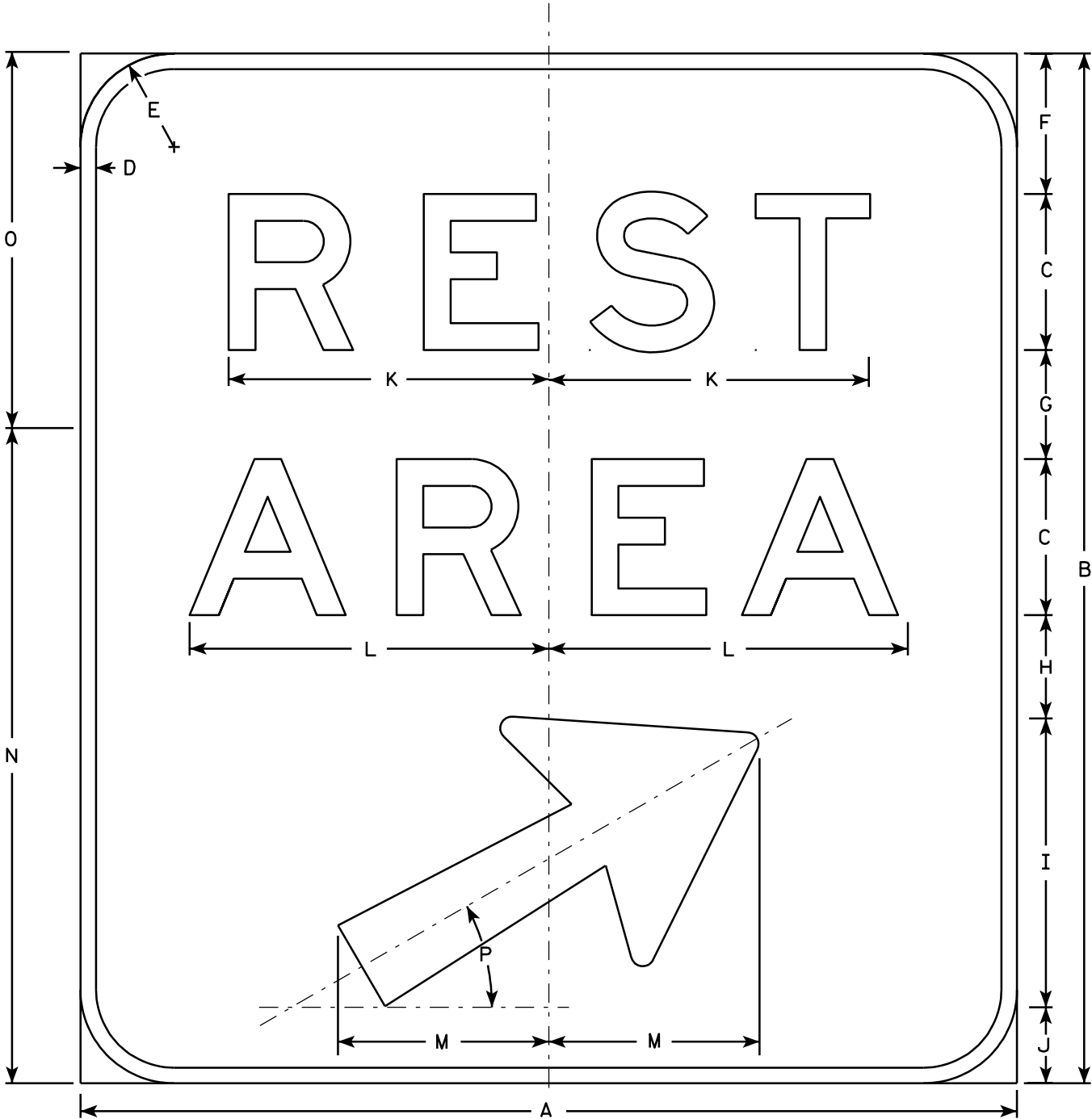
7

Metric equivalent
for this sign is:

SIZE	
1	
2	
3	
4	1500 mm X 1650 mm
5	1800 mm X 1800 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																												
2																												
3																												
4	60	66	10	1	6	9	7	6 5/8	18 1/2	4 7/8	21	23	13 1/2	42	24	30°	18 1/4	29 1/4	14	6	1 1/2	4 1/2	3/4				27.5	2.47
5	72	72	12	1	9	9	7	8	18 1/2	5 1/2	25	27	13 1/2	48	24	30°	18 1/4	29 1/4	14	6	1 1/2	4 1/2	3/4				36.0	3.24

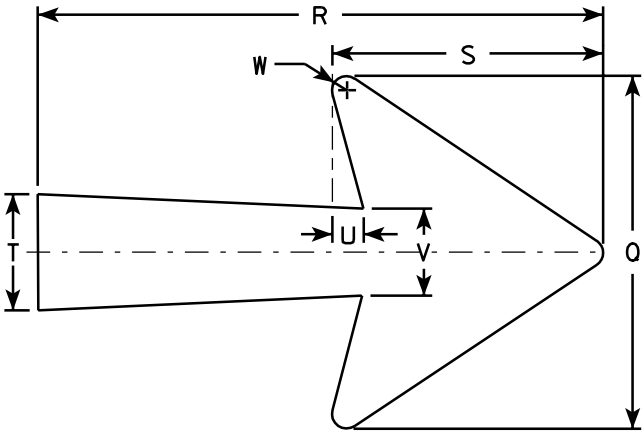
PROJECT NO:			HWY:			COUNTY:			SHEET NO: 165			E
-------------	--	--	------	--	--	---------	--	--	---------------	--	--	---



E5-54

NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Blue
Message - White
- Message Series - E
- Corners may be square or rounded but borders shall be rounded as shown. Base material for this sign shall be plywood.
- Arrow is Type A as per A1-1 standard
- Dimensions N & O Indicate cutting lines for plywood panels.



Arrow Detail

STANDARD SIGN
E5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Chester J. Spang
for State Traffic Engineer

DATE 2/11/97 PLATE NO. E5-54.7

7

7

NOTES

- 1. Sign is Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Blue
Message - White
- 3. Message Series - E



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	144	54	9		2	13 ³ / ₈	10	10 ¹ / ₂	11	9 ¹ / ₄	55 ¹ / ₄	41 ³ / ₈	50 ¹ / ₈														54
5	144	54	9		2	13 ³ / ₈	10	10 ¹ / ₂	11	9 ¹ / ₄	55 ¹ / ₄	41 ³ / ₈	50 ¹ / ₈														54

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

TYPICAL SIGNS

E10-62

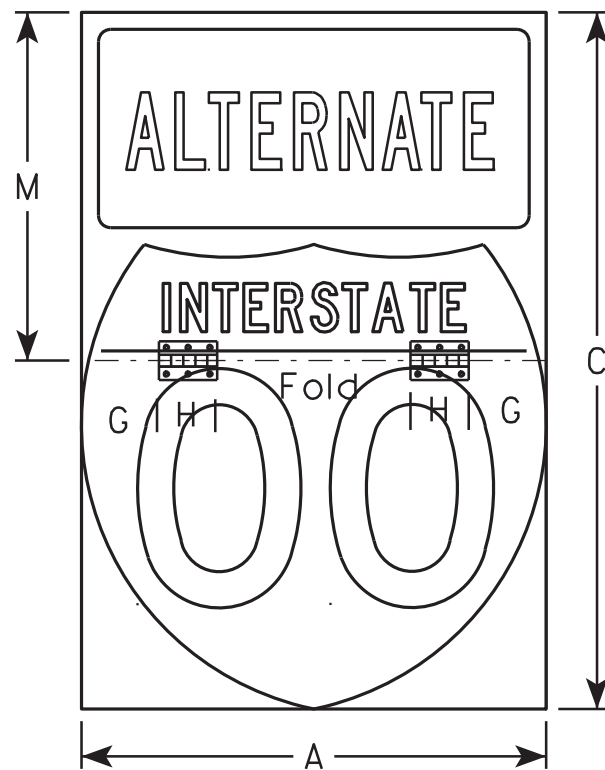
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

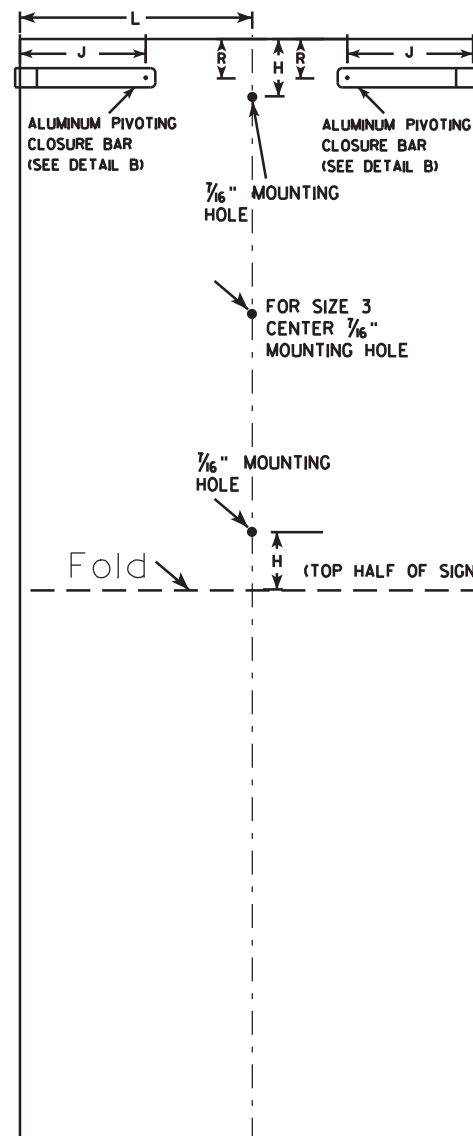
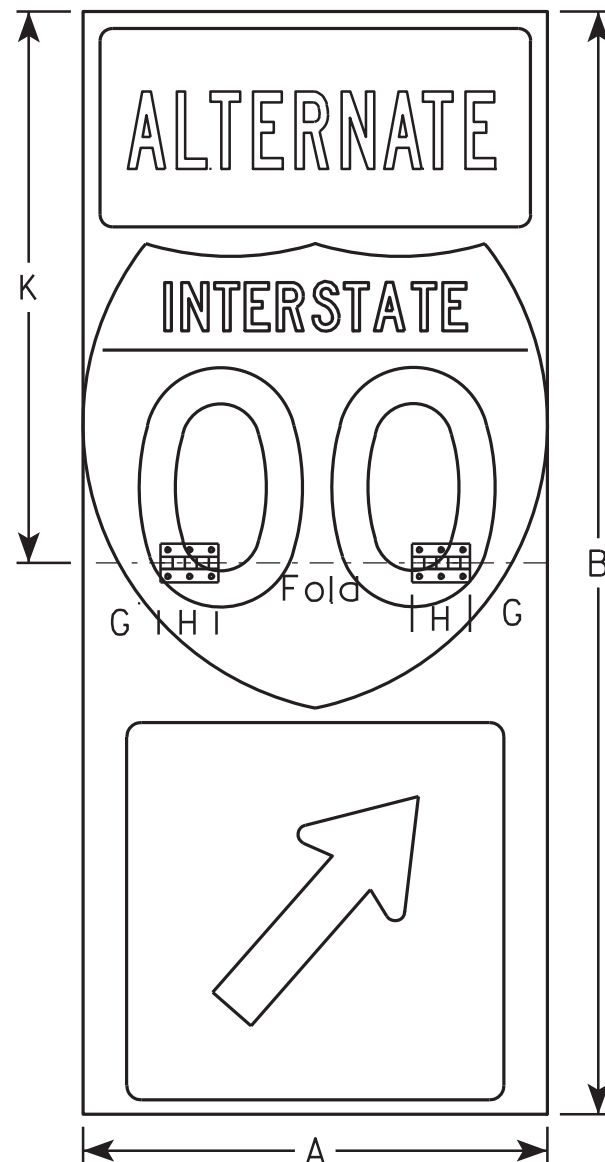
Matthew R. Raub
for State Traffic Engineer

DATE 9/24/15

PLATE NO. E10-62.3



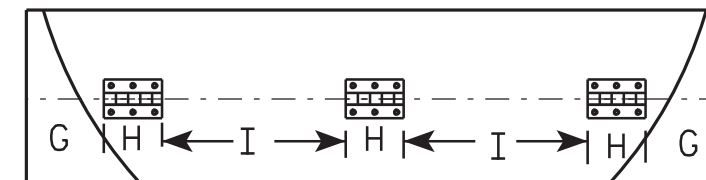
SIZE	Area sq. ft.
1	
2	6.0
3	13.5



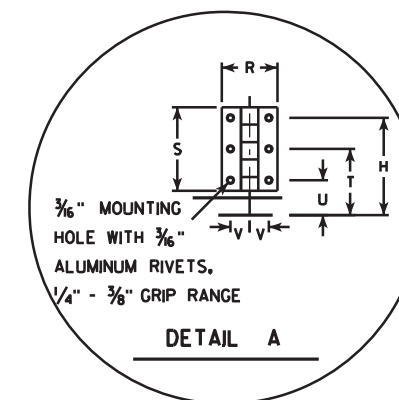
(BACK VIEW)

NOTES

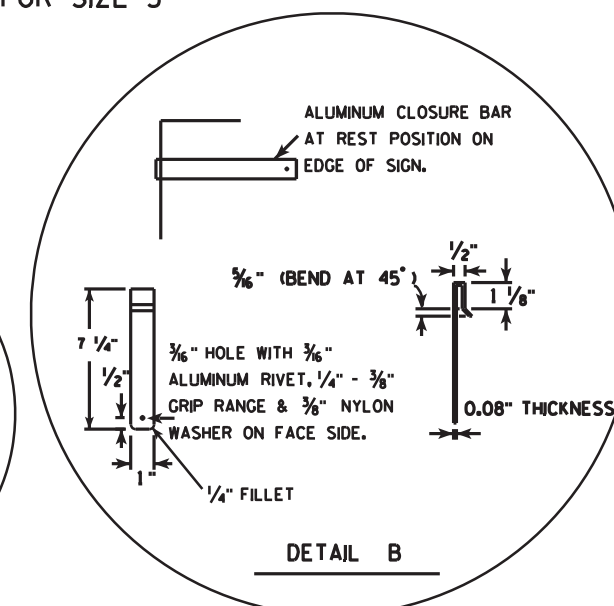
- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - *
Message - *
- Message Series - C
- Sign Base Material shall be aluminum and borders shall be rounded.
- All hardware used on the folding sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.
- Size 3 shall have 3 hinges see detail below
* See Appropriate Route Shield, Cardinals, Arrow, and A2-1S Sign Plates.



HINGE PLACEMENT FOR SIZE 3



DETAIL A



DETAIL B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	57	36				4	3		6 1/2	28 1/2	12	18					2	3	2 5/8	1 1/4	11/16					9.5
3	36	81	54				4	3	9 1/2	6 1/2	40 1/2	18	27					2	3	2 5/8	1 1/4	11/16					20.2
4																											
5																											

STANDARD SIGN

JV-F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/17/12 PLATE NO. JV-F.2

PROJECT NO:

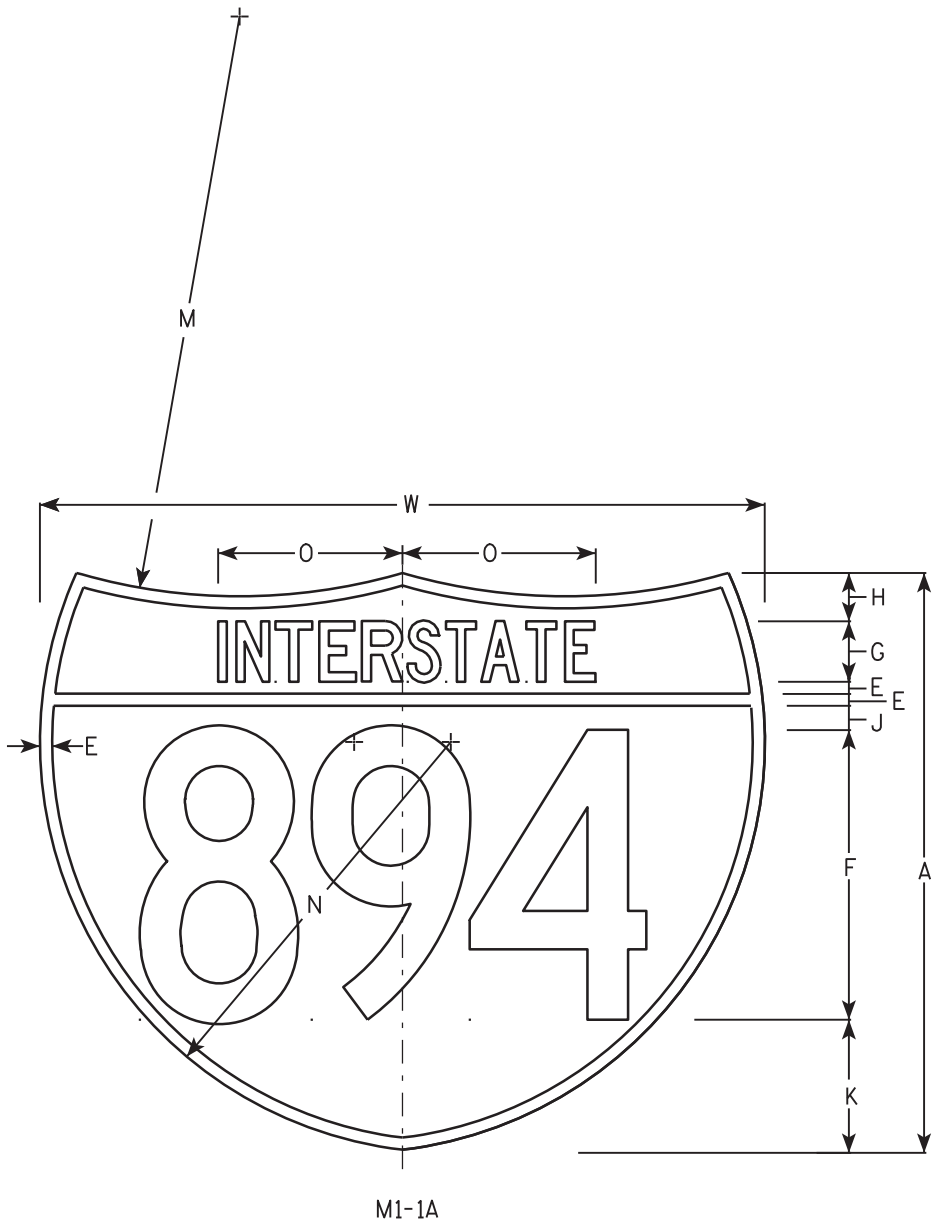
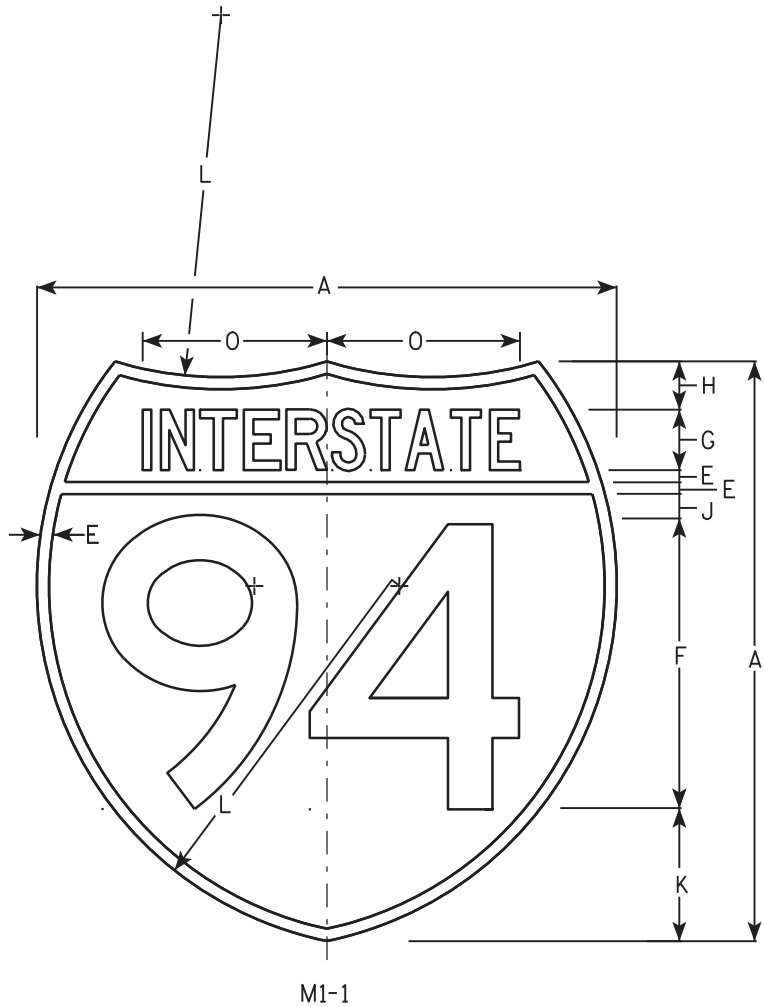
HWY:

COUNTY:

SHEET NO: 167

E

7



NOTES

- 1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Top Red - Bottom Blue (See Note 6)
Message - White - See Note 6
- 3. Message Series - See note 5
- 4. Substitute appropriate numerals & adjust spacing as per plate A10-1.
- 5. M1-1 - Numerals - D
Interstate - C
M1-1A - All copy - C
- 6. Permanent Signs
Message - Type H Reflective
Detour or other temporary signs
Background - Reflective
Message - Reflective

Metric equivalent for these signs are:

SIZE	M1 - 1	SIZE	M1 - 1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

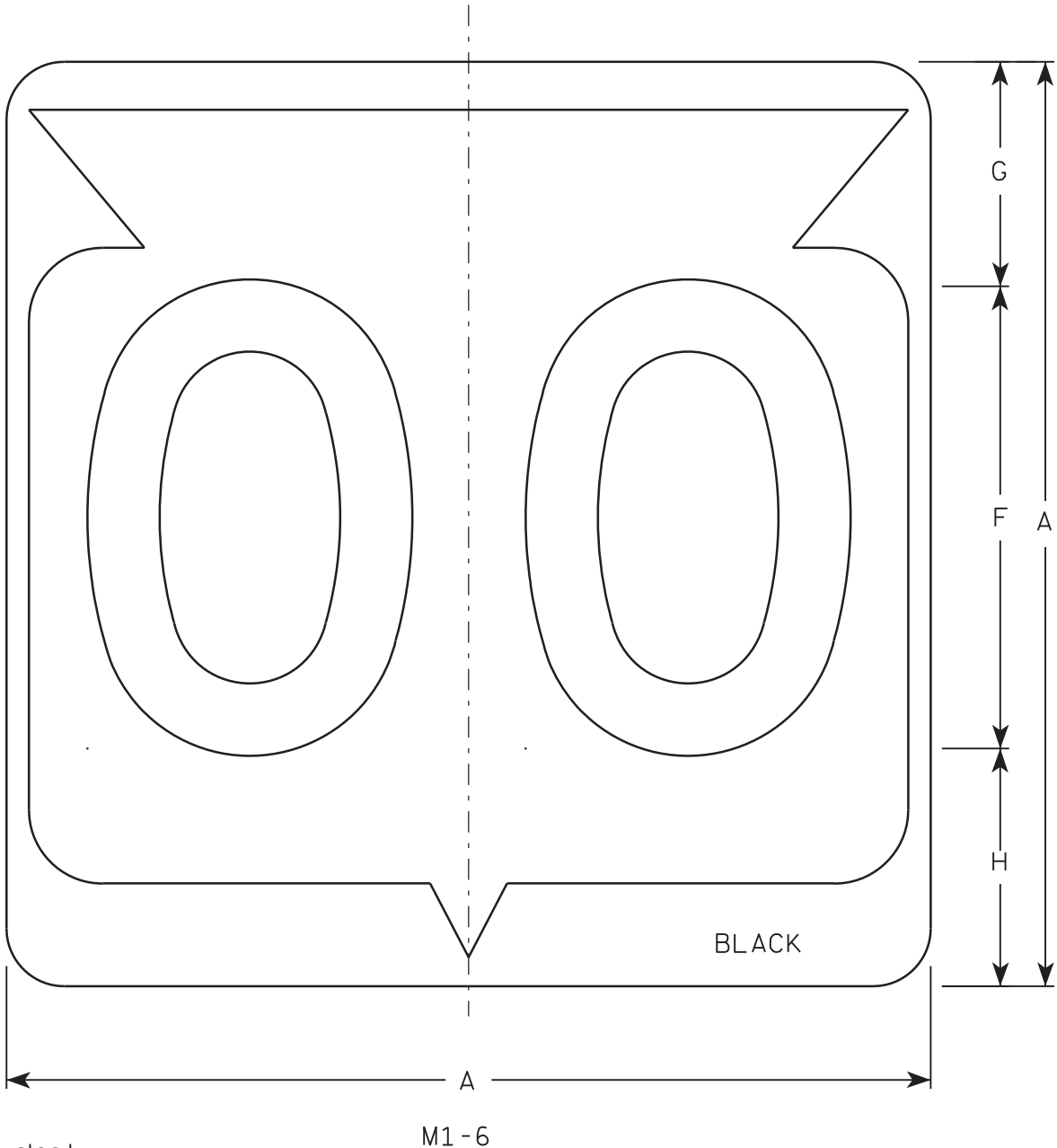
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Area sq. ft.	Area sq. ft.	Area m ²	Area m ²
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 08/23/05 PLATE NO. M1-1.8

7

7



Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

PROJECT NO:

HWY:

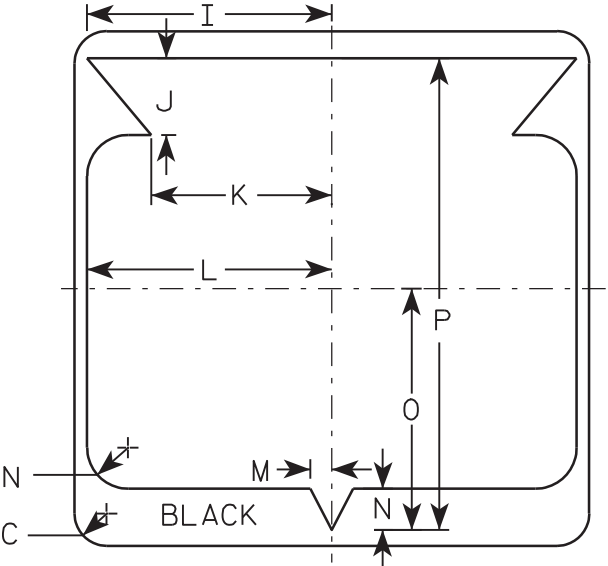
COUNTY:

SHEET NO: 169

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 Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

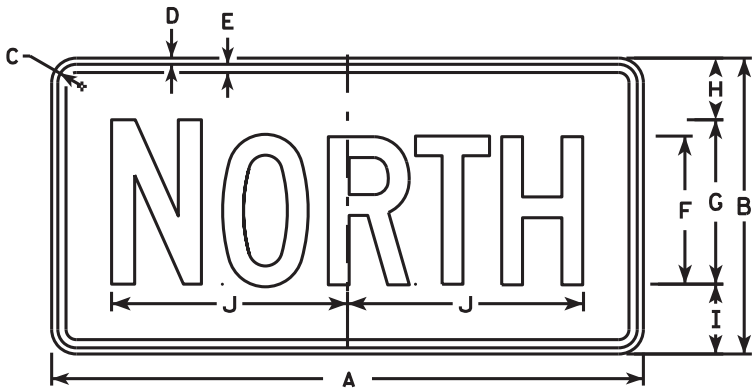
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

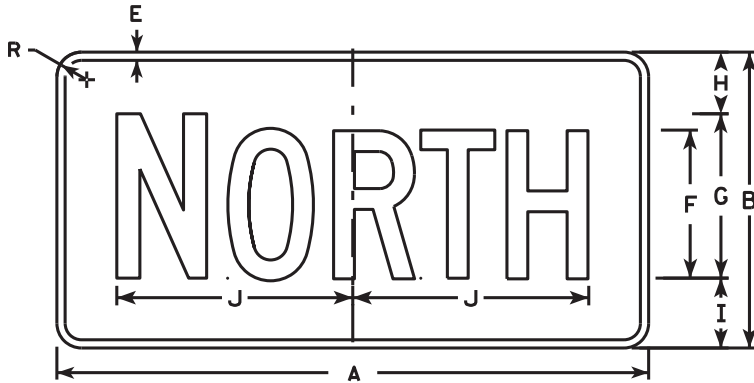
Chester J. Spang
for State Traffic Engineer

DATE 3/20/02

PLATE NO. M1-6.9



M3-1
MM3-1
MP3-1



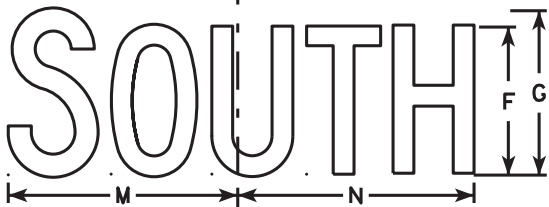
MB3-1
MK3-1
MN3-1



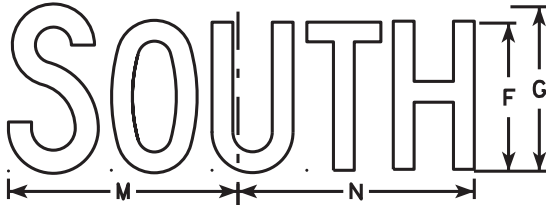
M3-2
MM3-2
MP3-2



MB3-2
MK3-2
MN3-2



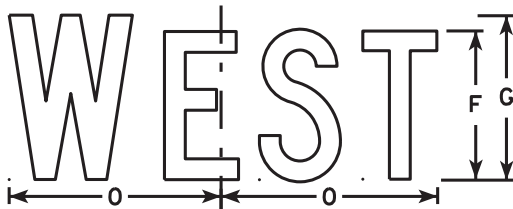
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

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

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

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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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

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:

Background - See Note 5

Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1

Background - White

Message - Black

MB4-1

Background - Blue

Message - White

M04-1

Background - Orange - Type F

Message - Black
-
- M4 - 1
M04 - 1
-
- MB4 - 1
- | SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | O | R | S | T | U | V | W | X | Y | Z | Area
sq. ft. |
|------|----|----|-------|-----|-----|---|-------|--------|--------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 24 | 12 | 1 1/8 | 3/8 | 3/8 | 4 | 4 | 9 3/4 | 9 1/2 | 1 1/2 | | | | | | | | | | | | | | | | 2.00 | |
| 3 | 36 | 18 | 1 1/8 | 3/8 | 1/2 | 7 | 5 1/2 | 16 3/8 | 16 1/2 | 1 1/2 | | | | | | | | | | | | | | | | 4.5 | |
| 4 | 36 | 18 | 1 1/8 | 3/8 | 1/2 | 7 | 5 1/2 | 16 3/8 | 16 1/2 | 1 1/2 | | | | | | | | | | | | | | | | 4.5 | |
| 5 | 36 | 18 | 1 1/8 | 3/8 | 1/2 | 7 | 5 1/2 | 16 3/8 | 16 1/2 | 1 1/2 | | | | | | | | | | | | | | | | 4.5 | |
- STANDARD SIGN

M4 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Raub

for State Traffic Engineer

DATE 6/30/14

PLATE 171

'14-1.8

SHEET NO:

E
- PROJECT NO:

HWY:

COUNTY:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M41.DGN

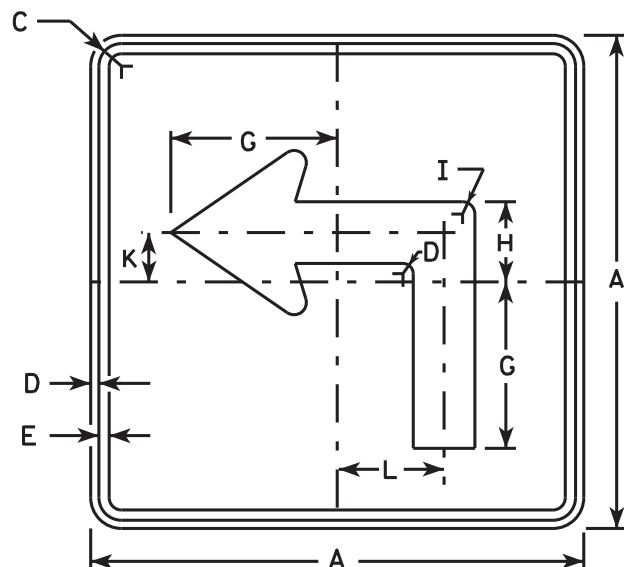
PLOT DATE : 30-JUN-2014 15:38

PLOT BY : mscsja

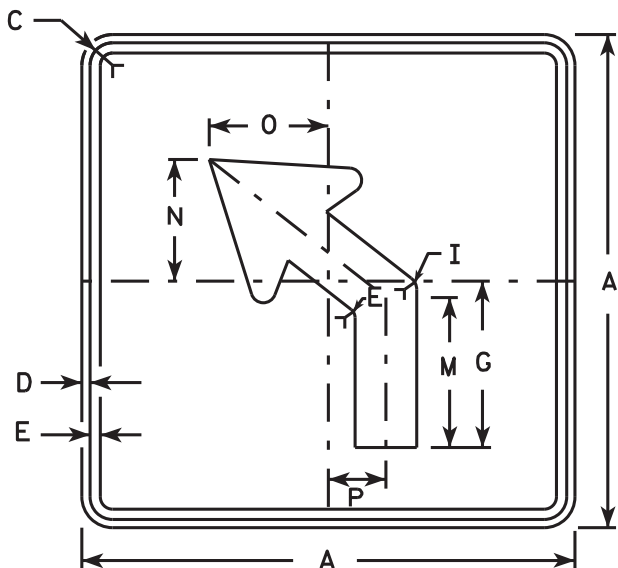
PLOT NAME :

PLOT SCALE : 4.708937:1.000000

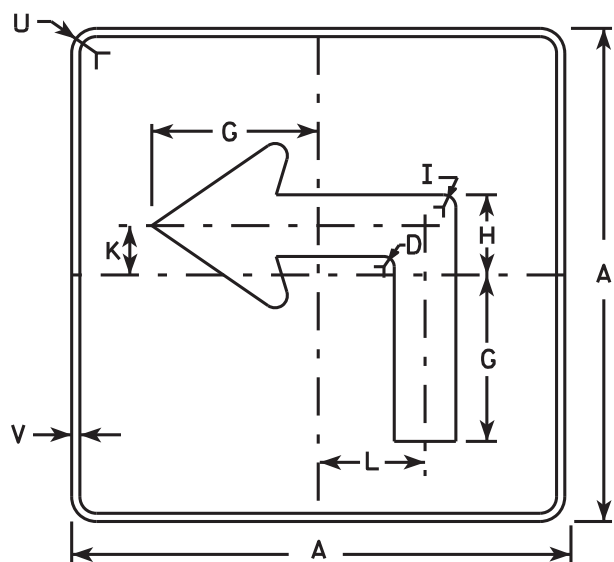
WISDOT/CADDs SHEET 42



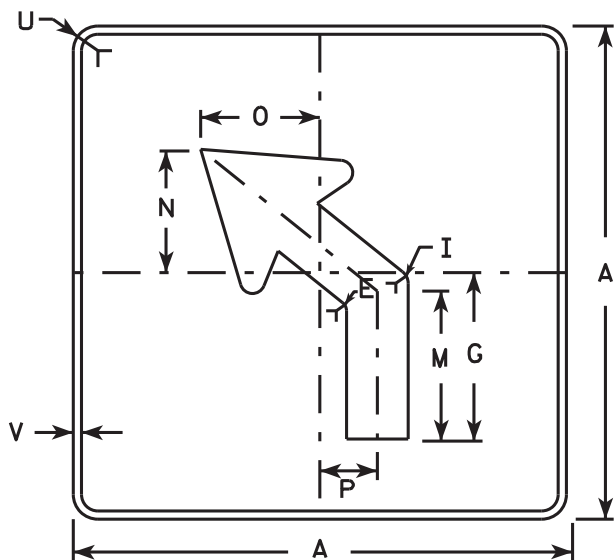
M5-1L
MM5-1L
M05-1L
MP5-1L



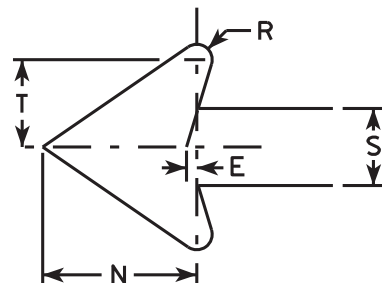
M5-2L
MM5-2L
M05-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

- Signs are Type II - Type H reflective 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.
- | | |
|-----------------|---|
| M5-1 and M5-2 | Background - White |
| | Message - Black |
| MB5-1 and MB5-2 | Background - Blue |
| | Message - White |
| MK5-1 and MK5-2 | Background - Green |
| | Message - White |
| MM5-1 and MM5-2 | Background - White |
| | Message - Green |
| MN5-1 and MN5-2 | Background - Brown |
| | Message - White |
| M05-1 and M05-2 | Background - Orange - Type F Reflective |
| | Message - Black |
| MP5-1 and MP5-2 | Background - White - Type H Reflective |
| | Message - Blue |
| MR5-1 and MR5-2 | Background - Brown |
| | Message - Yellow |
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN

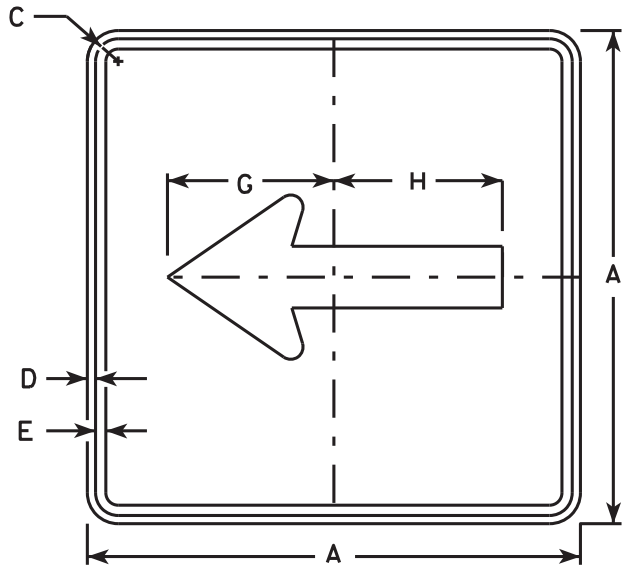
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

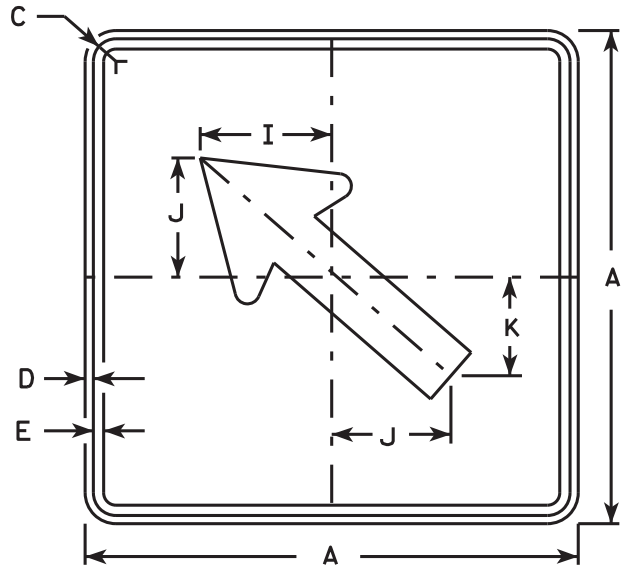
APPROVED *Matthew R. Rauch*

for State Traffic Engineer

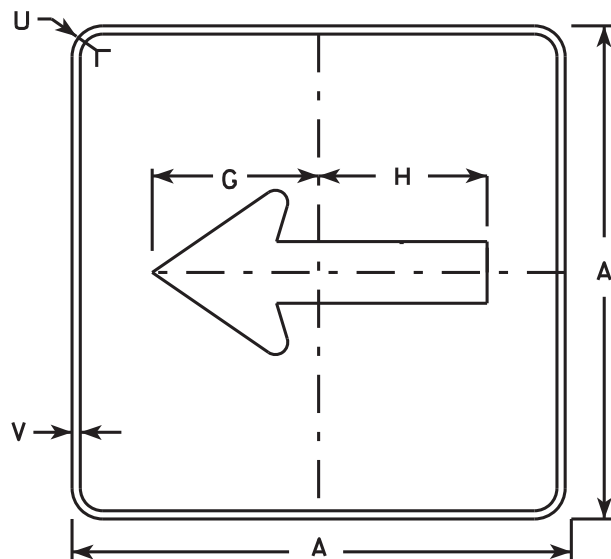
DATE 10/15/15 PLATE NO. M5-1.13



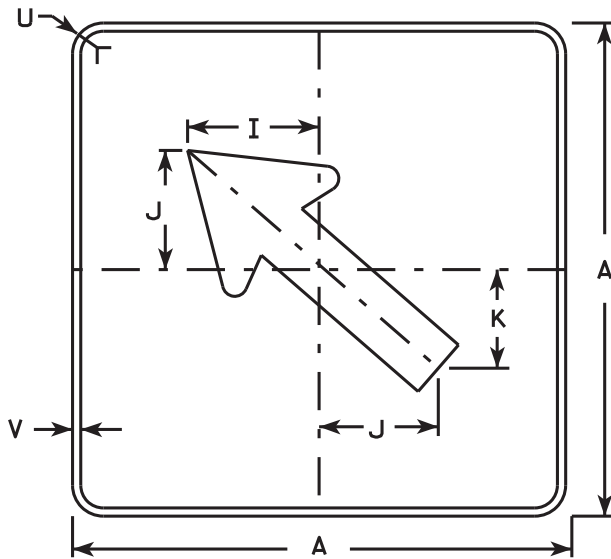
M6 - 1
MM6 - 1
MO6 - 1
MP6 - 1



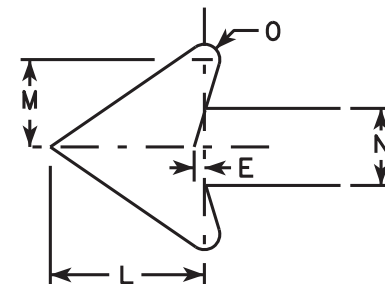
M6 - 2
MM6 - 2
MO6 - 2
MP6 - 2



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



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



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.
- M6-1 and M6-2 Background - White
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White
MK6-1 and MK6-2 Background - Green
Message - White
MM6-1 and MM6-2 Background - White
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White
MO6-1 and MO6-2 Background - Orange - Type F Reflective
Message - Black
MP6-1 and MP6-2 Background - White
Message - Blue
MR6-1 and MR6-2 Background - Brown
Message - Yellow

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

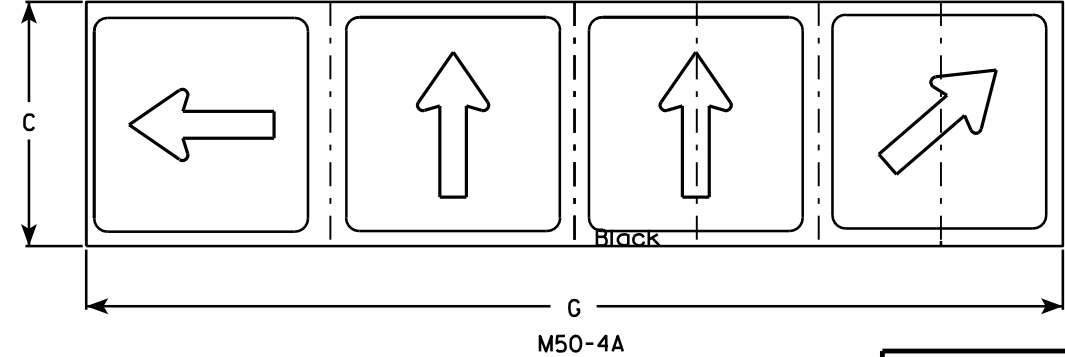
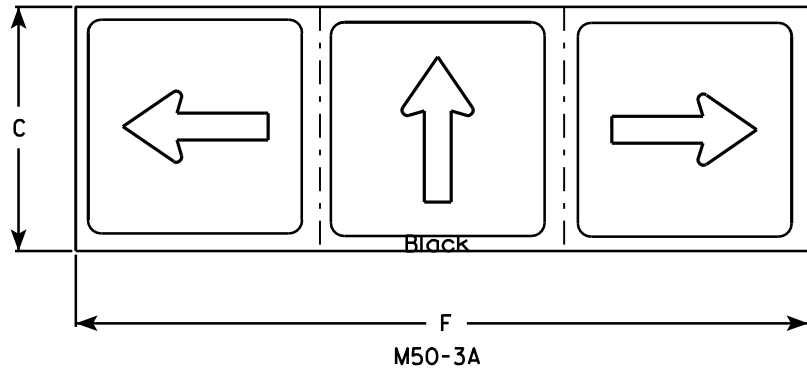
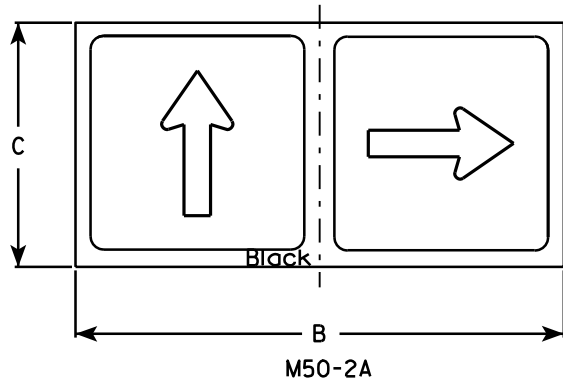
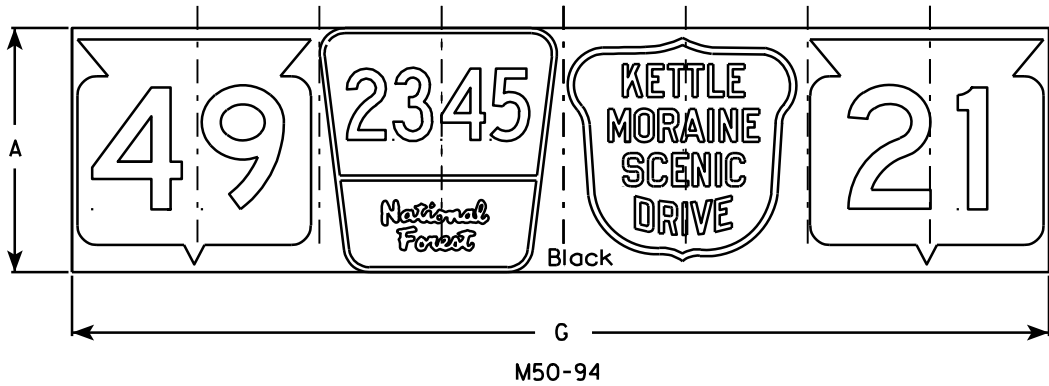
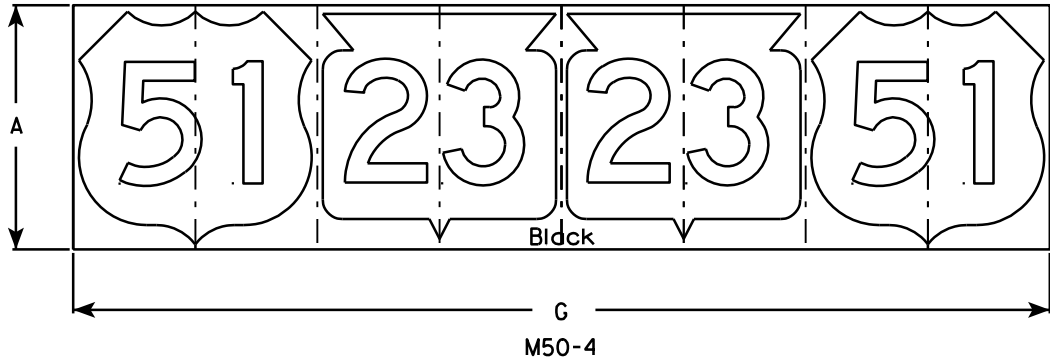
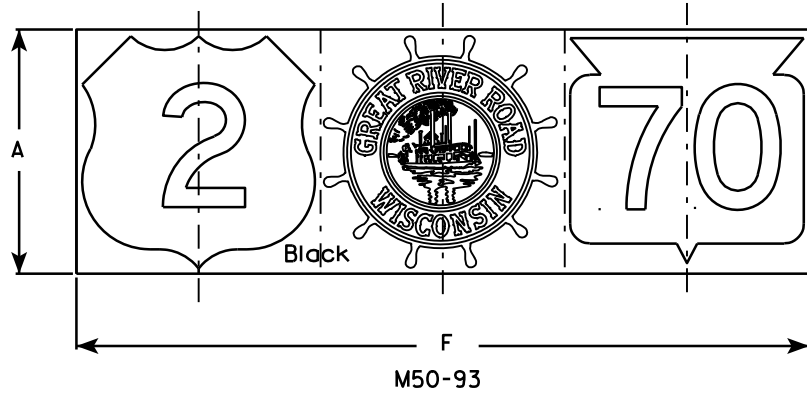
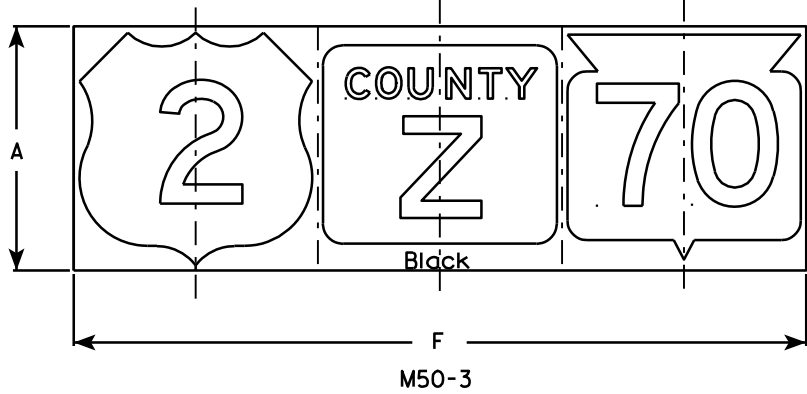
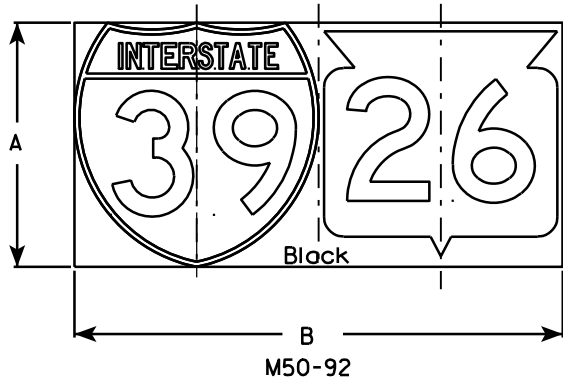
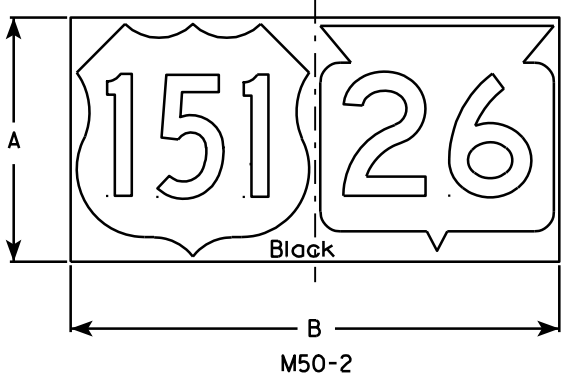
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

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

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Black
Message - See Note 5
- 3. Message Series - See Note 5
- 4. Corners shall be square since base material is plywood.
- 5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.



M50-2A																							M50-3A			M50-4A		
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	M50-2/92/2A Area sq. ft.	M50-3/93/3A Area sq. ft.	M50-4/94/4A Area sq. ft.			
1																												
2	24	48	21			72	96																8.0	12.0	16.0			
3	36	72	30			96	144																18.0	24.0	36.0			
4																												
5																												

STANDARD SIGNS
M50 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 8/19/10 PLATE NO. M50.4

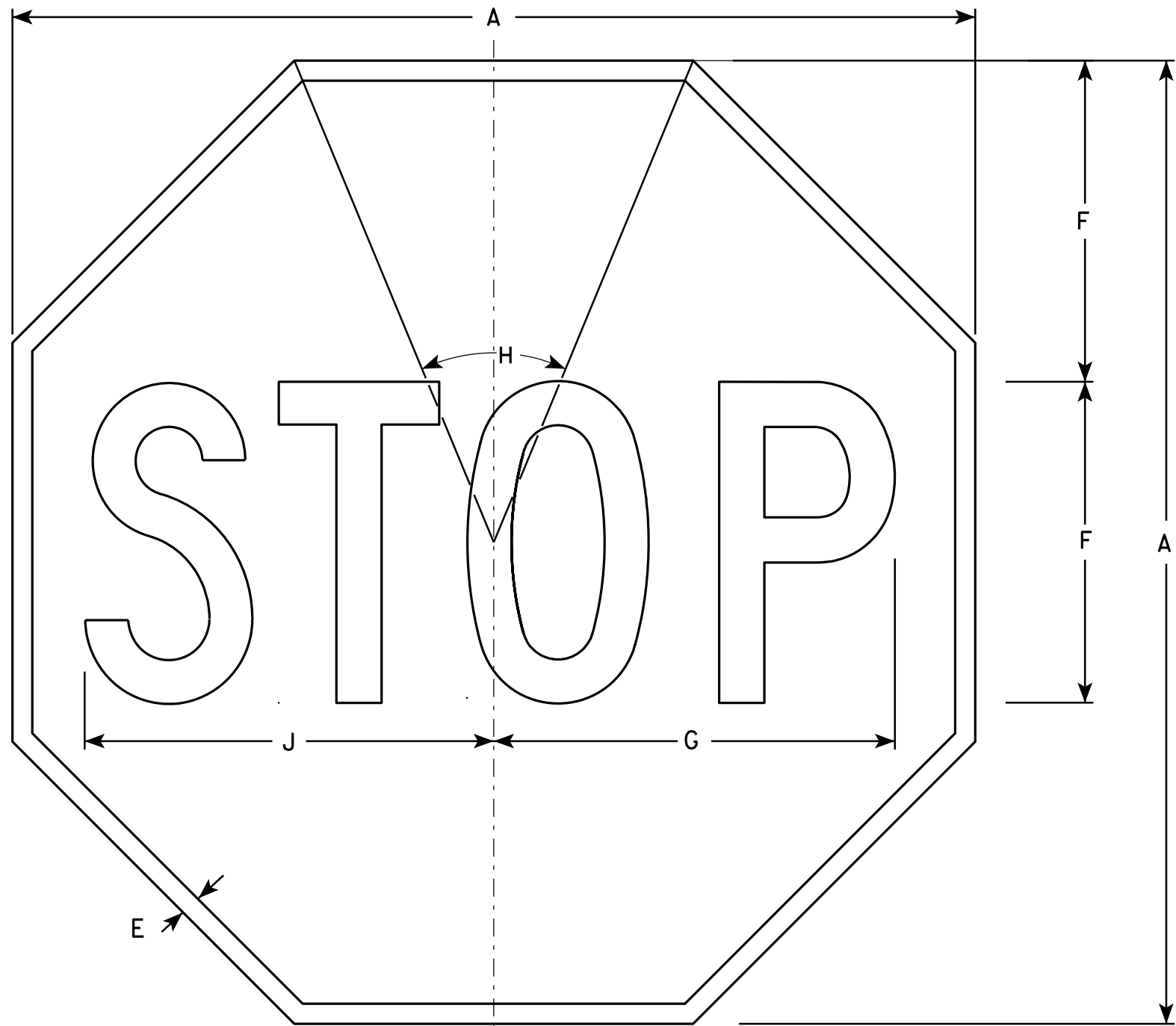
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 174

E



NOTES

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

R1-1

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	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

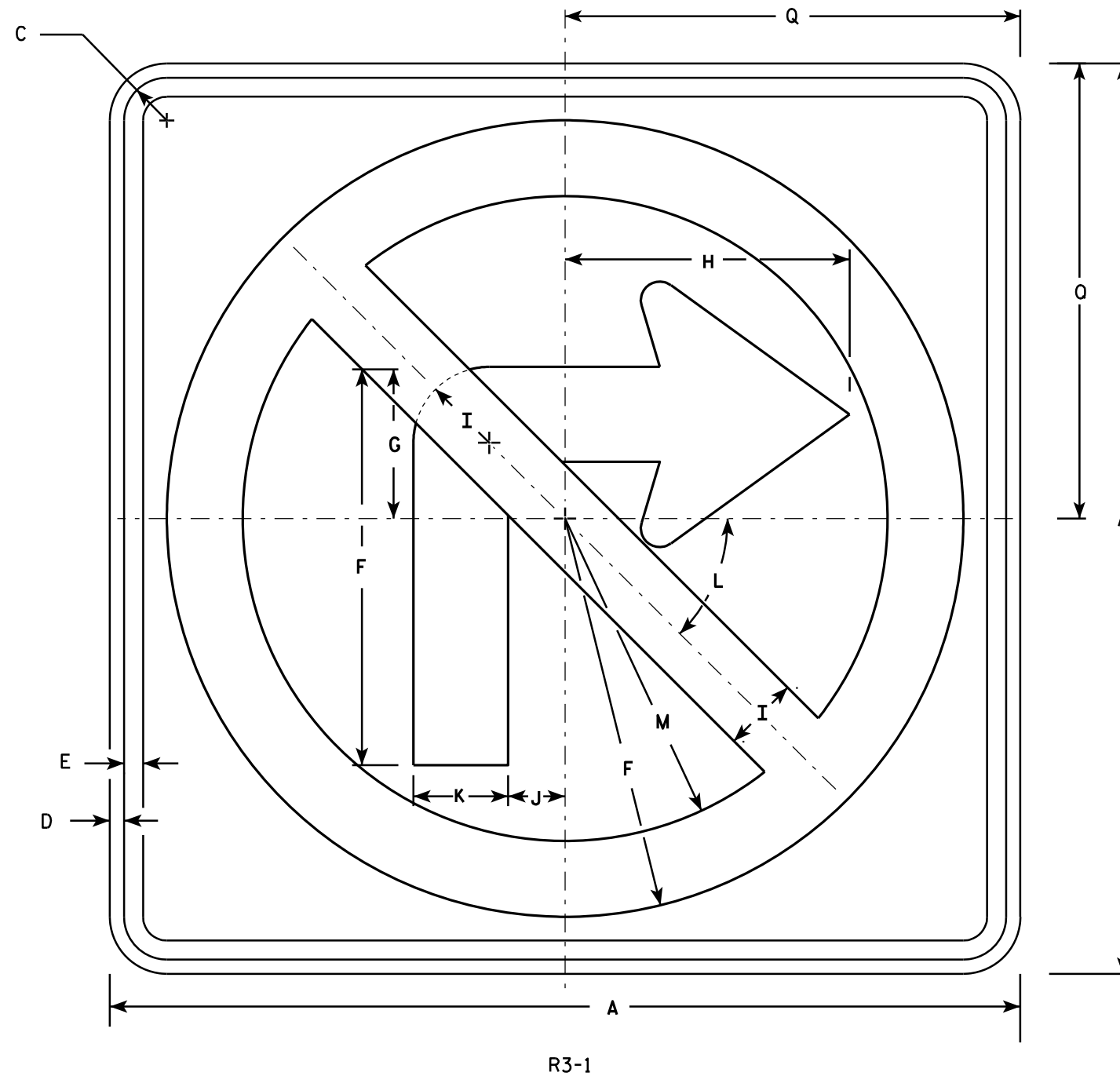
DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:

HWY:

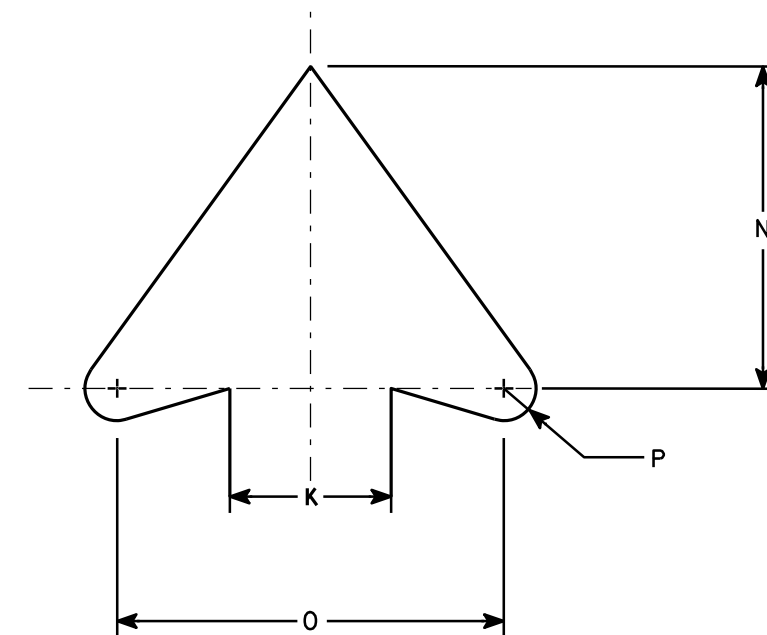
COUNTY:

SHEET NO: 175



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

STANDARD SIGN

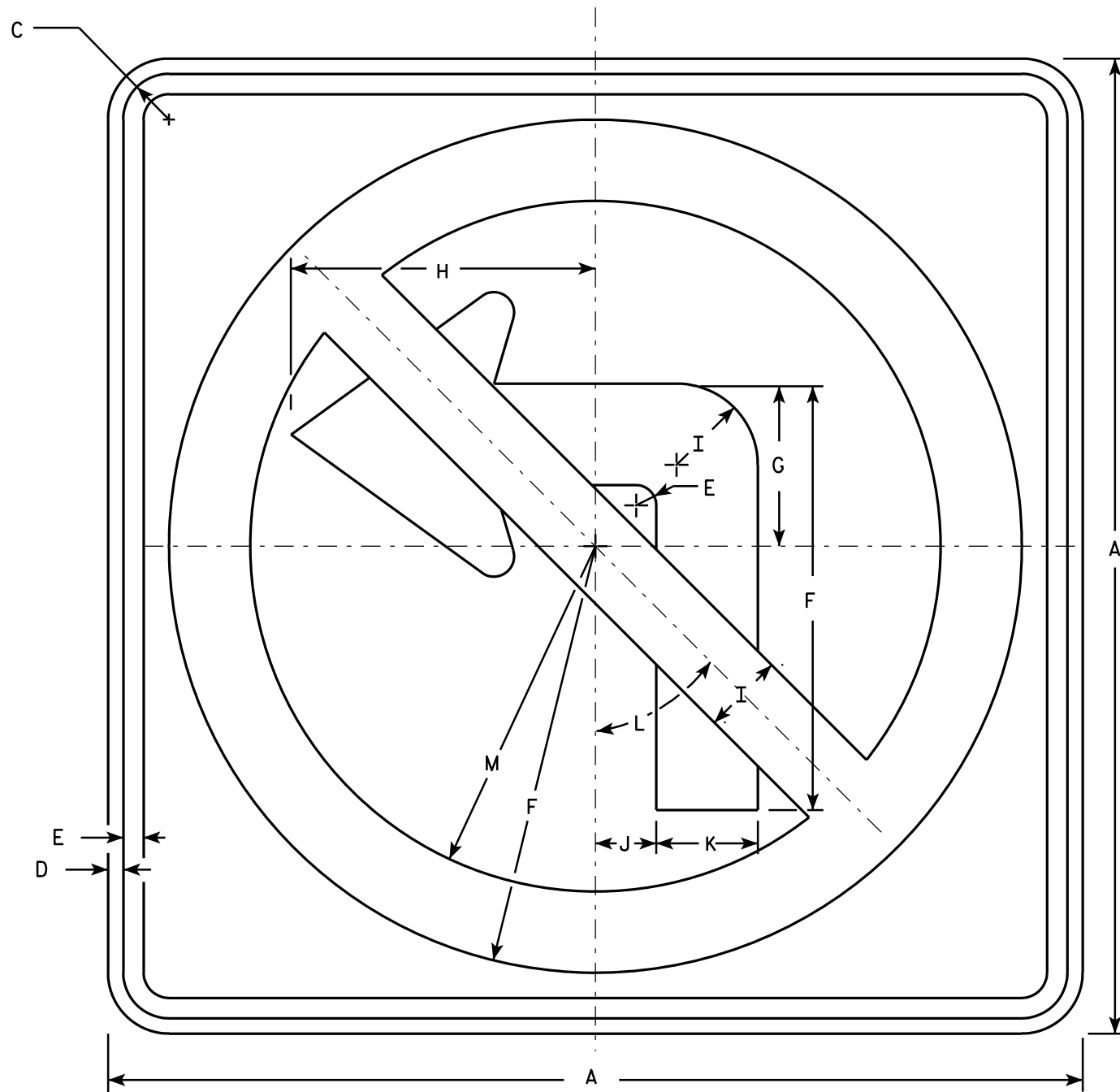
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

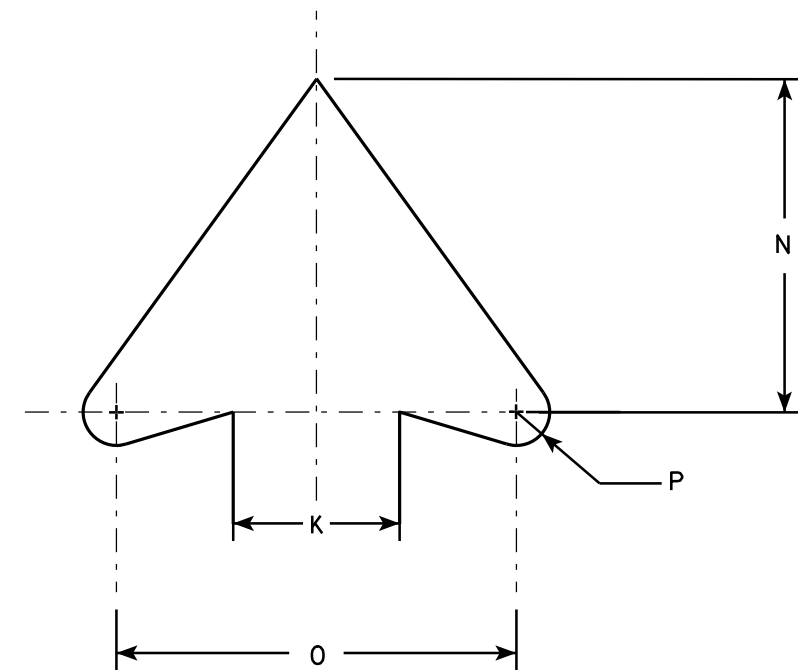
PROJECT NO: HWY: COUNTY: SHEET NO: 176 E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.

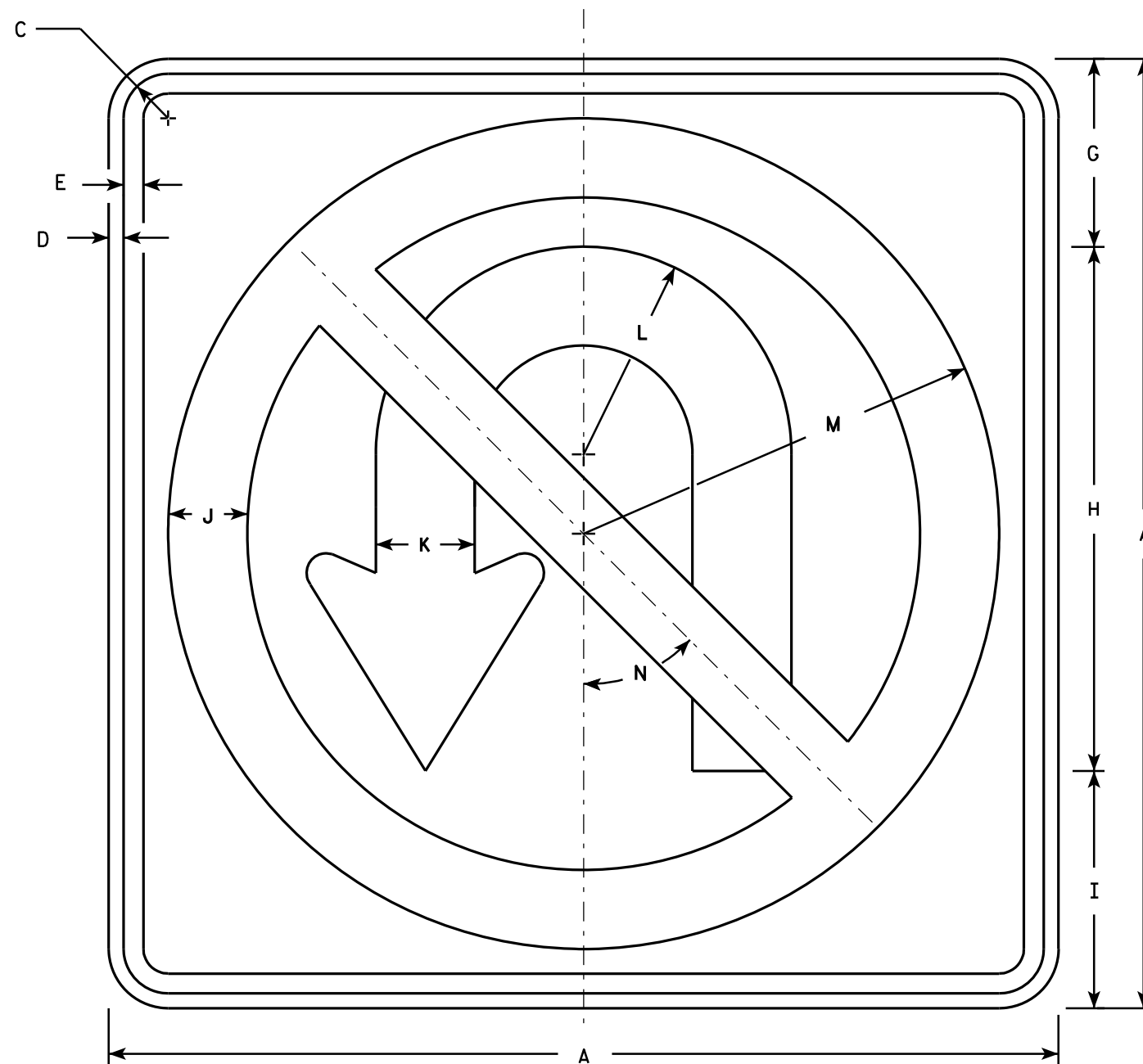


ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1 1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1 1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

PROJECT NO: HWY: COUNTY: SHEET NO: 177 E

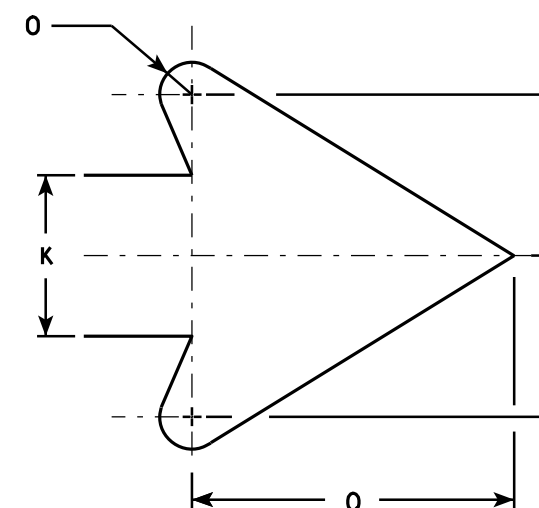
STANDARD SIGN R3-2	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 12/08/10	PLATE NO. R3-2.10



R3-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

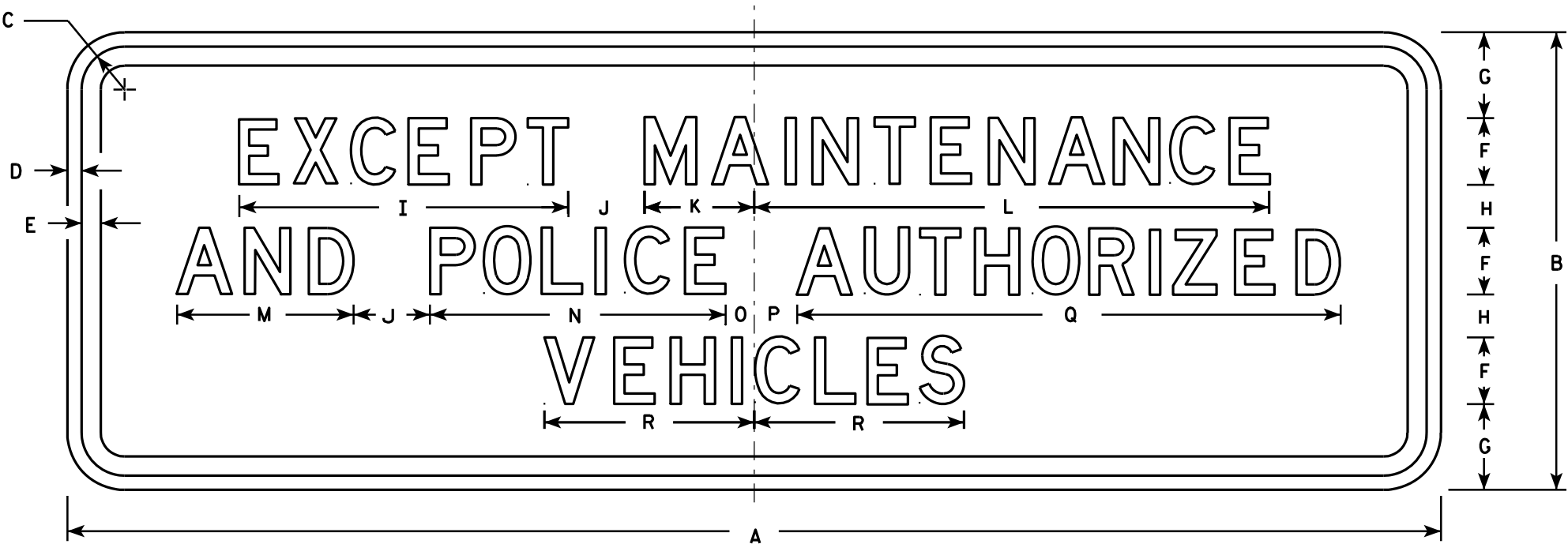
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

STANDARD SIGN R3-4	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 12/08/10	PLATE NO. R3-4.11

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 178	E
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NOTES

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



R3-4A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36	12	1 3⁄8	1⁄2	3⁄8	1 3⁄4	2 1⁄4	1 1⁄8	8 5⁄8	2	2 7⁄8	13 1⁄2	4 5⁄8	7 3⁄4	3⁄4	1 1⁄8	14 1⁄4	5 1⁄2									3.0
5	36	12	1 3⁄8	1⁄2	3⁄8	1 3⁄4	2 1⁄4	1 1⁄8	8 5⁄8	2	2 7⁄8	13 1⁄2	4 5⁄8	7 3⁄4	3⁄4	1 1⁄8	14 1⁄4	5 1⁄2									3.0

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 179

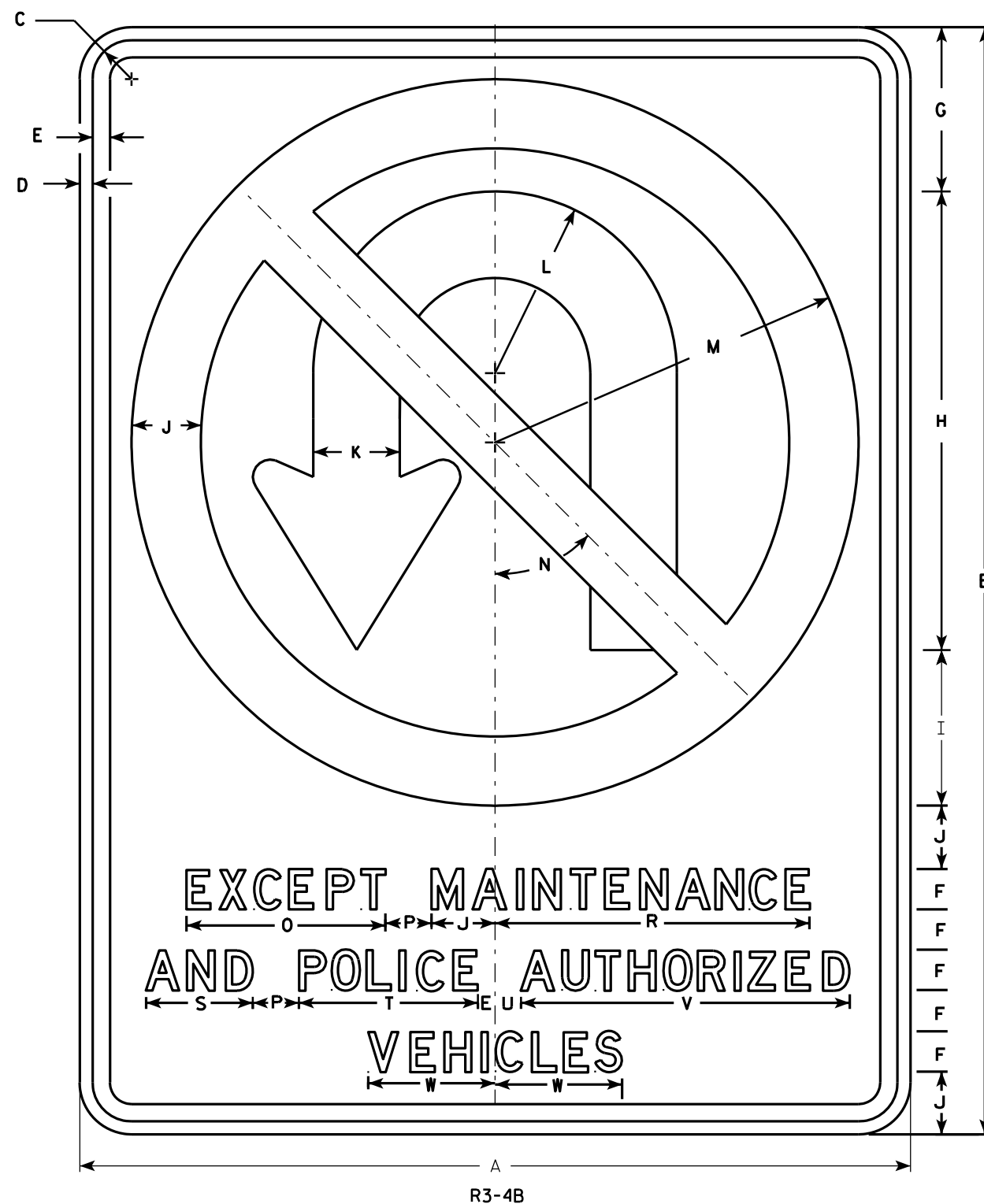
E

STANDARD SIGN
R3-4A

WISCONSIN DEPT OF TRANSPORTATION

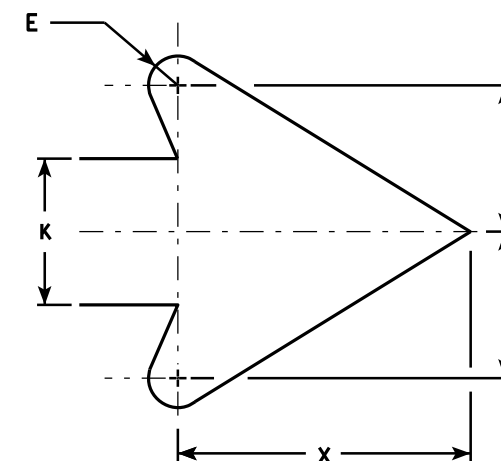
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-4A.10



NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - White
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.
- Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

R3-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36	48	1 5⁄8	5⁄8	3⁄4	1 3⁄4	7 1⁄8	19 7⁄8	6 3⁄4	2 3⁄4	3 3⁄4	7 7⁄8	15 3⁄4	45°	8 5⁄8	2		13 5⁄8	4 5⁄8	7 3⁄4	1 1⁄8	14 1⁄4	5 1⁄2	7 5⁄8			12.0
5	36	48	1 5⁄8	5⁄8	3⁄4	1 3⁄4	7 1⁄8	19 7⁄8	6 3⁄4	2 3⁄4	3 3⁄4	7 7⁄8	15 3⁄4	45°	8 5⁄8	2		13 5⁄8	4 5⁄8	7 3⁄4	1 1⁄8	14 1⁄4	5 1⁄2	7 5⁄8			12.0

STANDARD SIGN R3-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-4B.2

PROJECT NO: HWY: COUNTY: SHEET NO: 180



NOTES

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

R4-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN

R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

PROJECT NO:

SHEET NO: 181

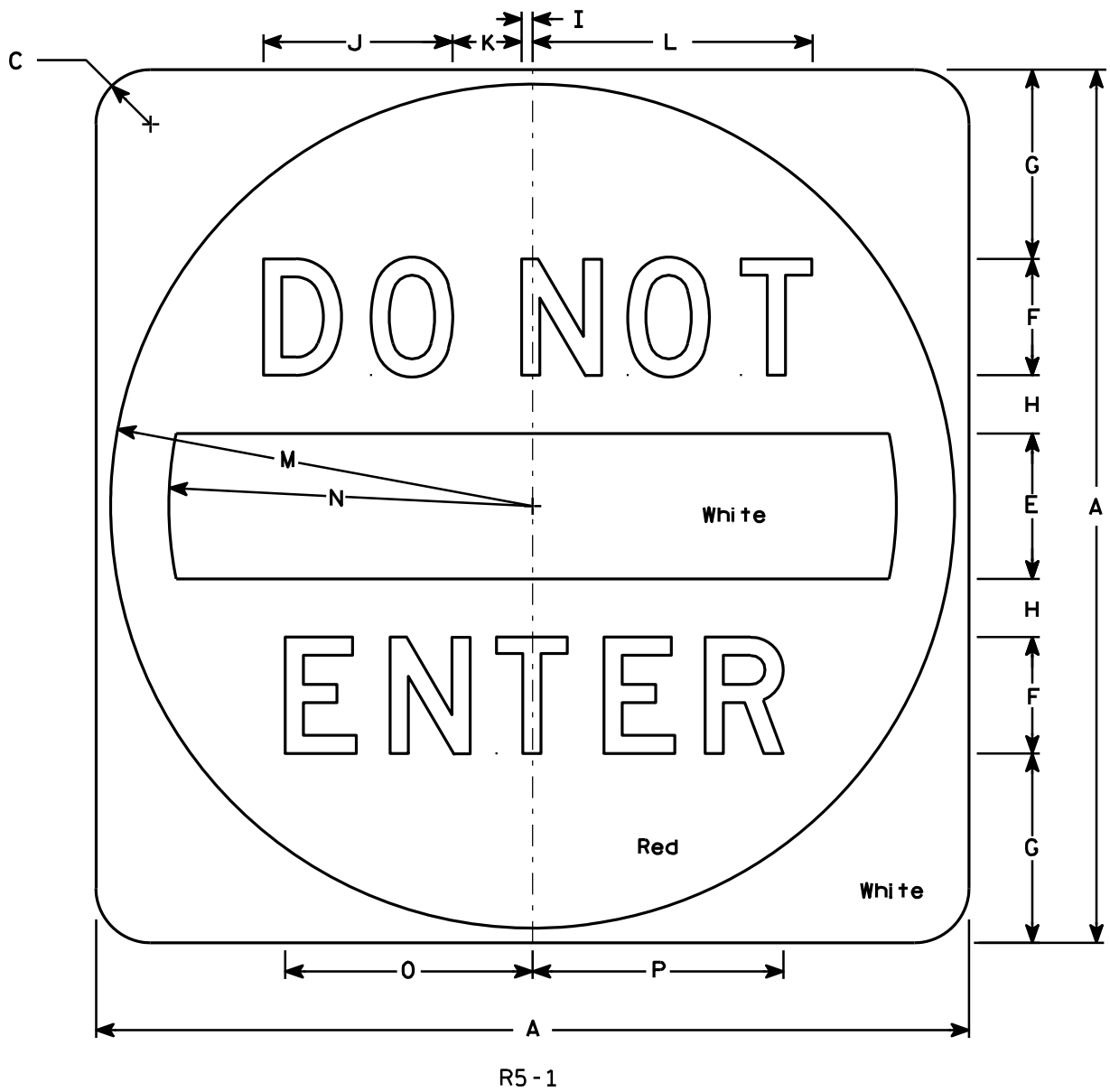
E

NOTES

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

Background - See detail

Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the corners shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7⁄8		5	4	6 1⁄2	2	3⁄8	6 1⁄2	2 3⁄8	9 5⁄8	14 1⁄2	12 1⁄2	8 1⁄2	8 5⁄8											6.26
2M	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
3	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
4	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
5	48		3		8	6	11	3	5⁄8	9 3⁄4	3 5⁄8	14 1⁄2	23 1⁄2	20	12 3⁄4	12 7⁄8											16.0

STANDARD SIGN

R5 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch

for State Traffic Engineer

DATE 12/17/10PLATE NO. R5-1.15

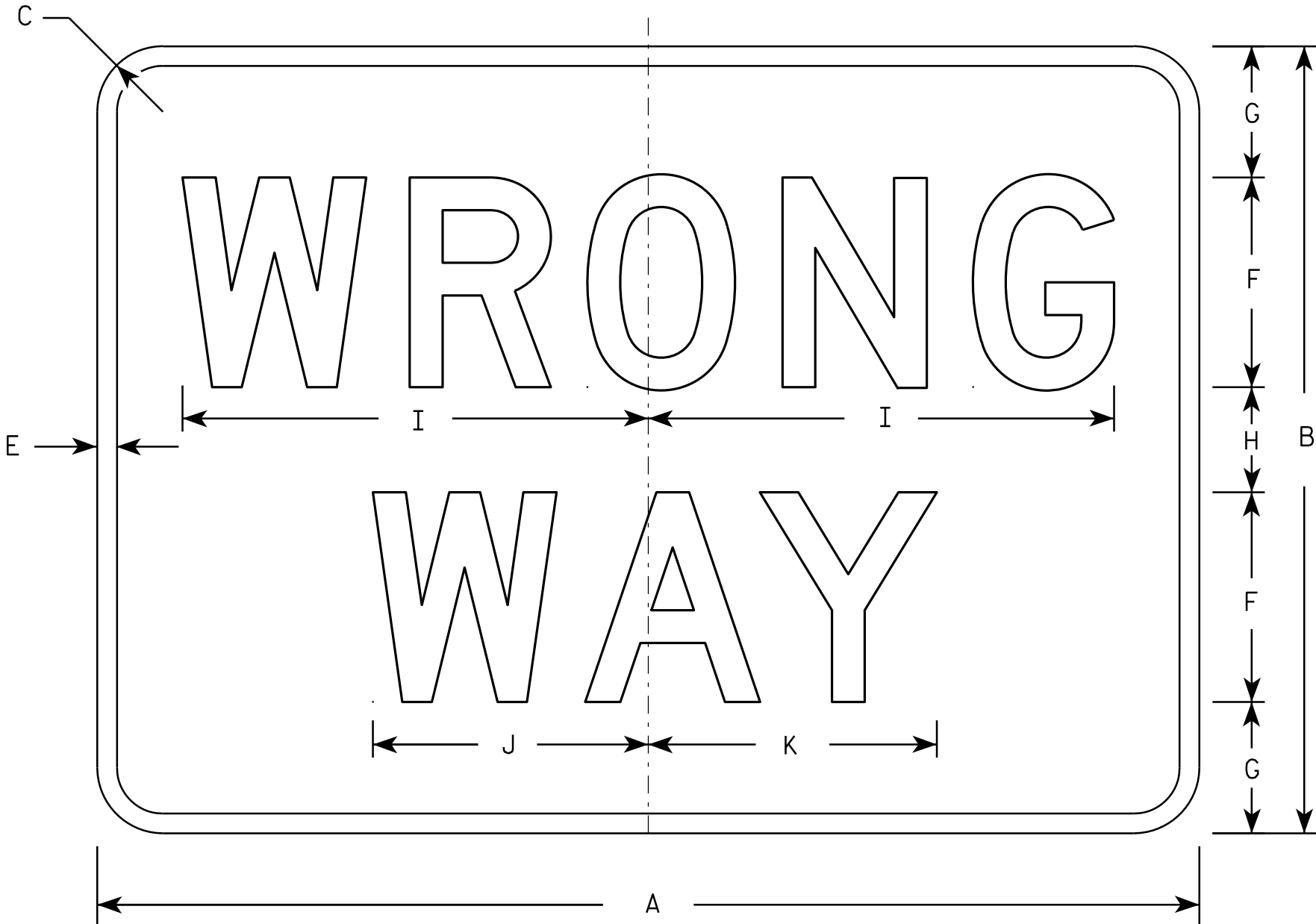
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 182

E



R5-1A

NOTES

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

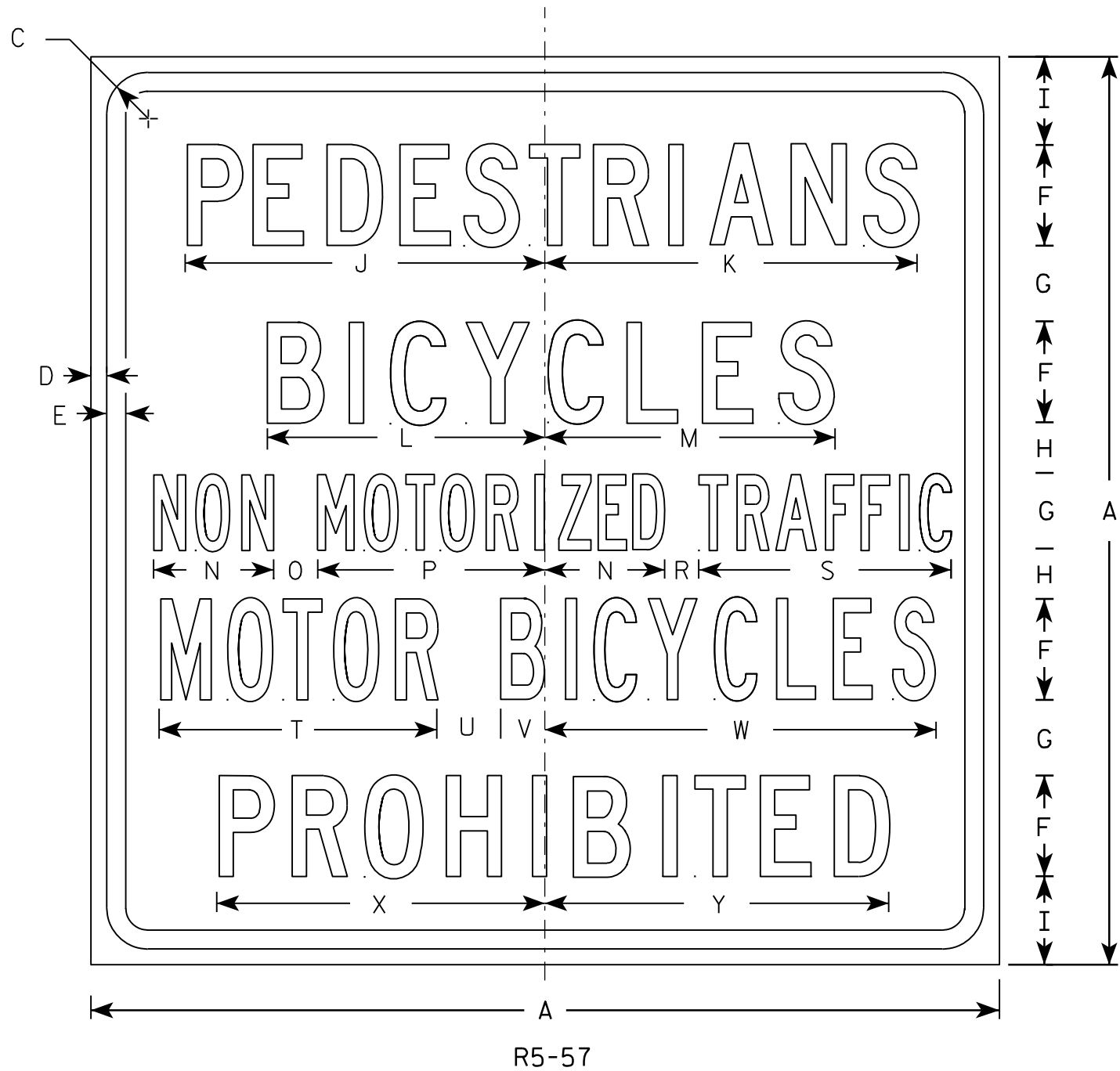
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

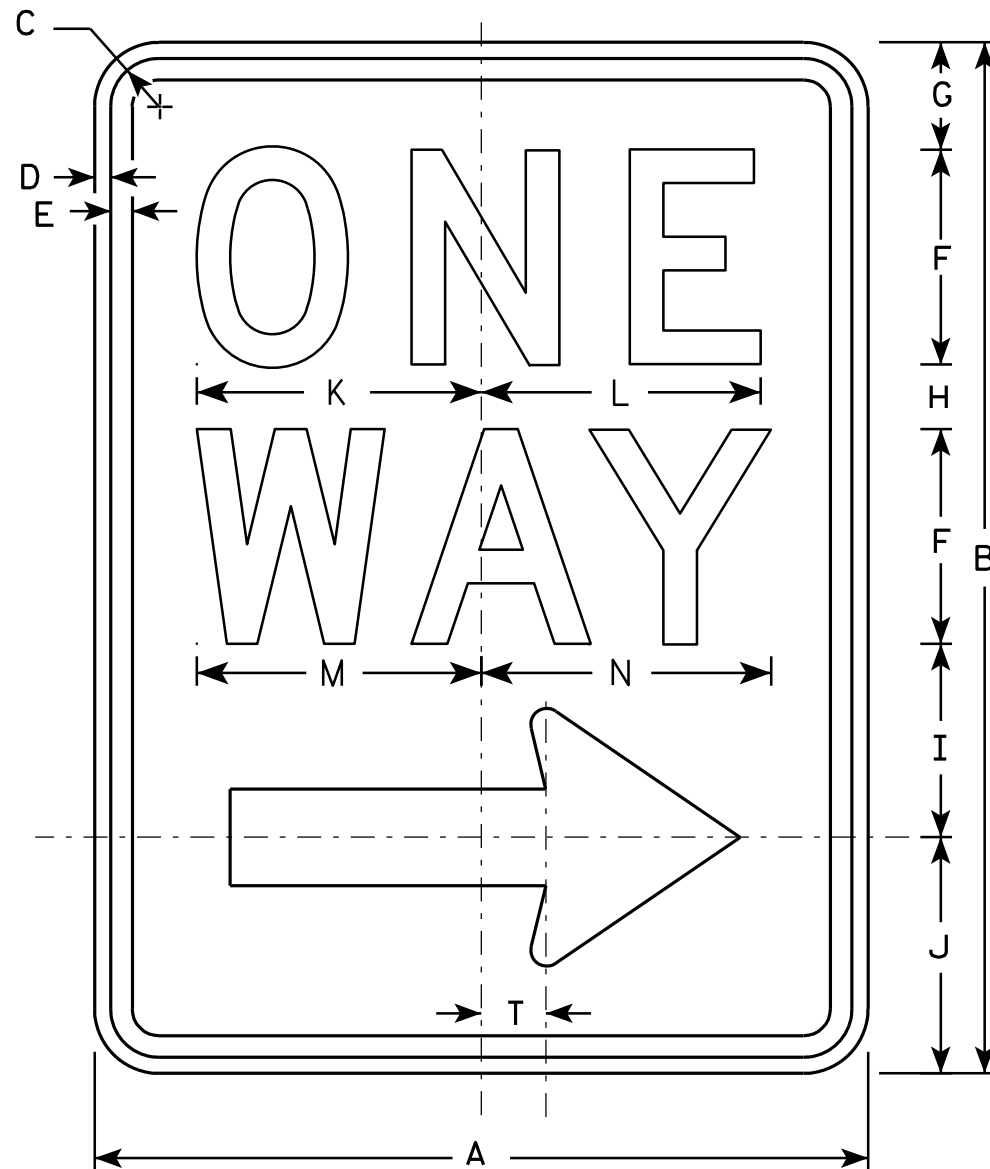


NOTES

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 - Lines 1, 2, and 5 are Series C.
Lines 3 and 4 are Series B.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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

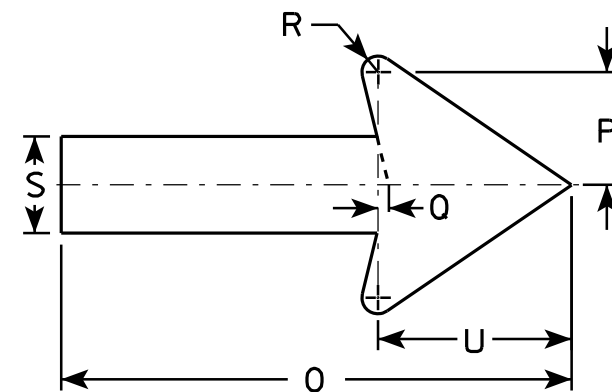
STANDARD SIGN R5-57	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 3/29/2011	PLATE NO. R5-57.10



R6-2R

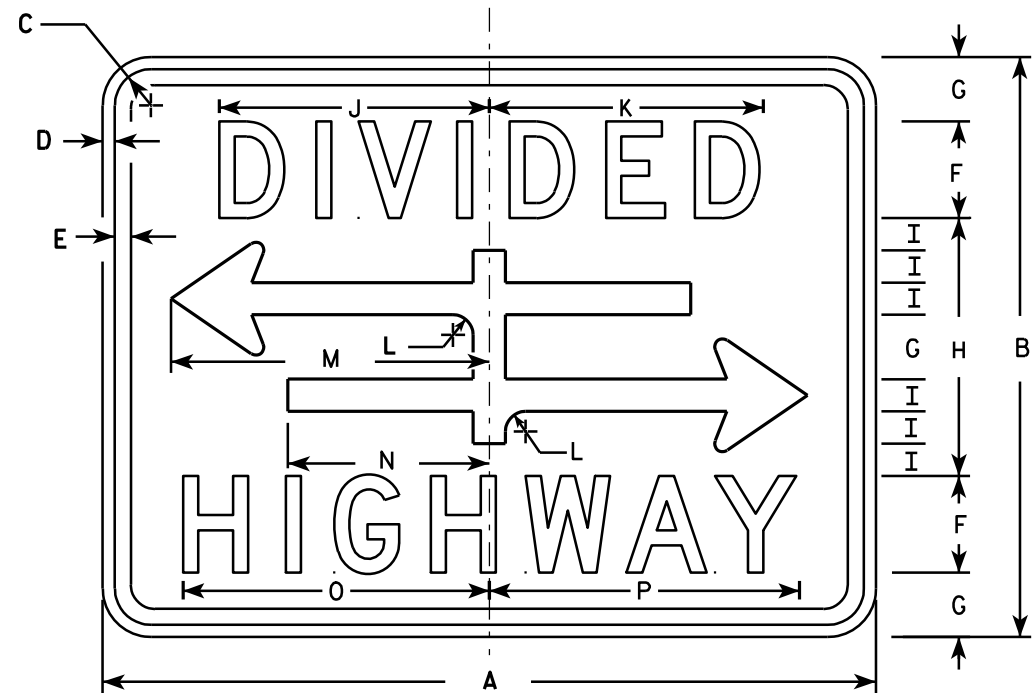
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.

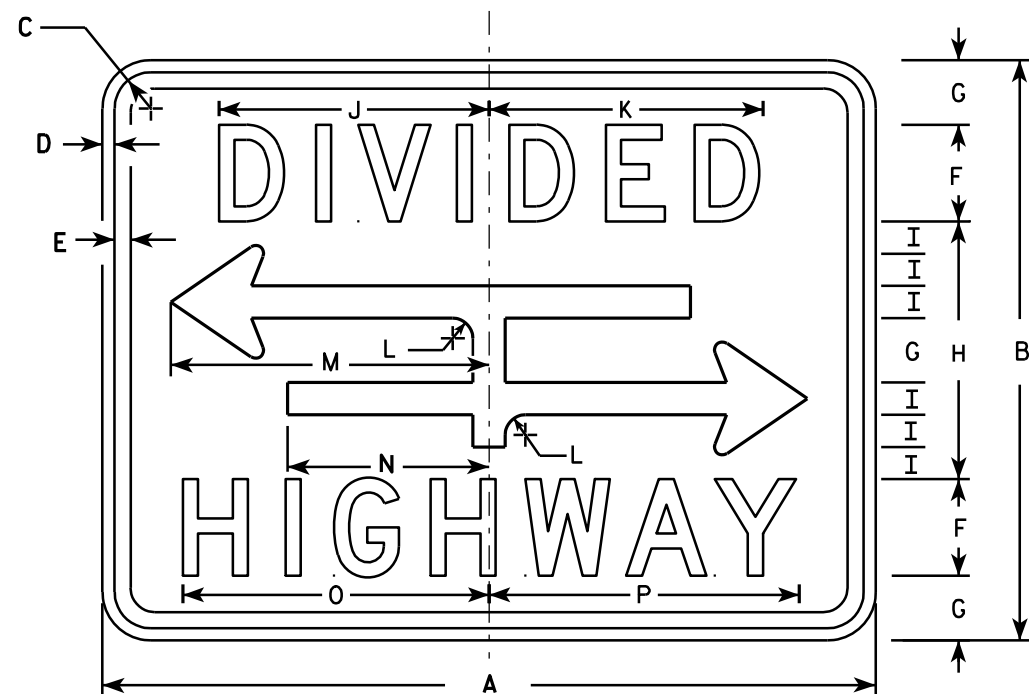


SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

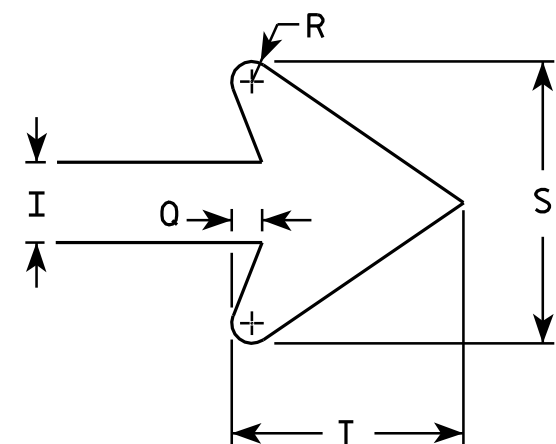
PROJECT NO:	HWY:	COUNTY:	SHEET NO: 185	E
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R6-3



R6-3A



ARROW DETAIL

NOTES

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

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

PROJECT NO:

STANDARD SIGN
R6-3 & R6-3A

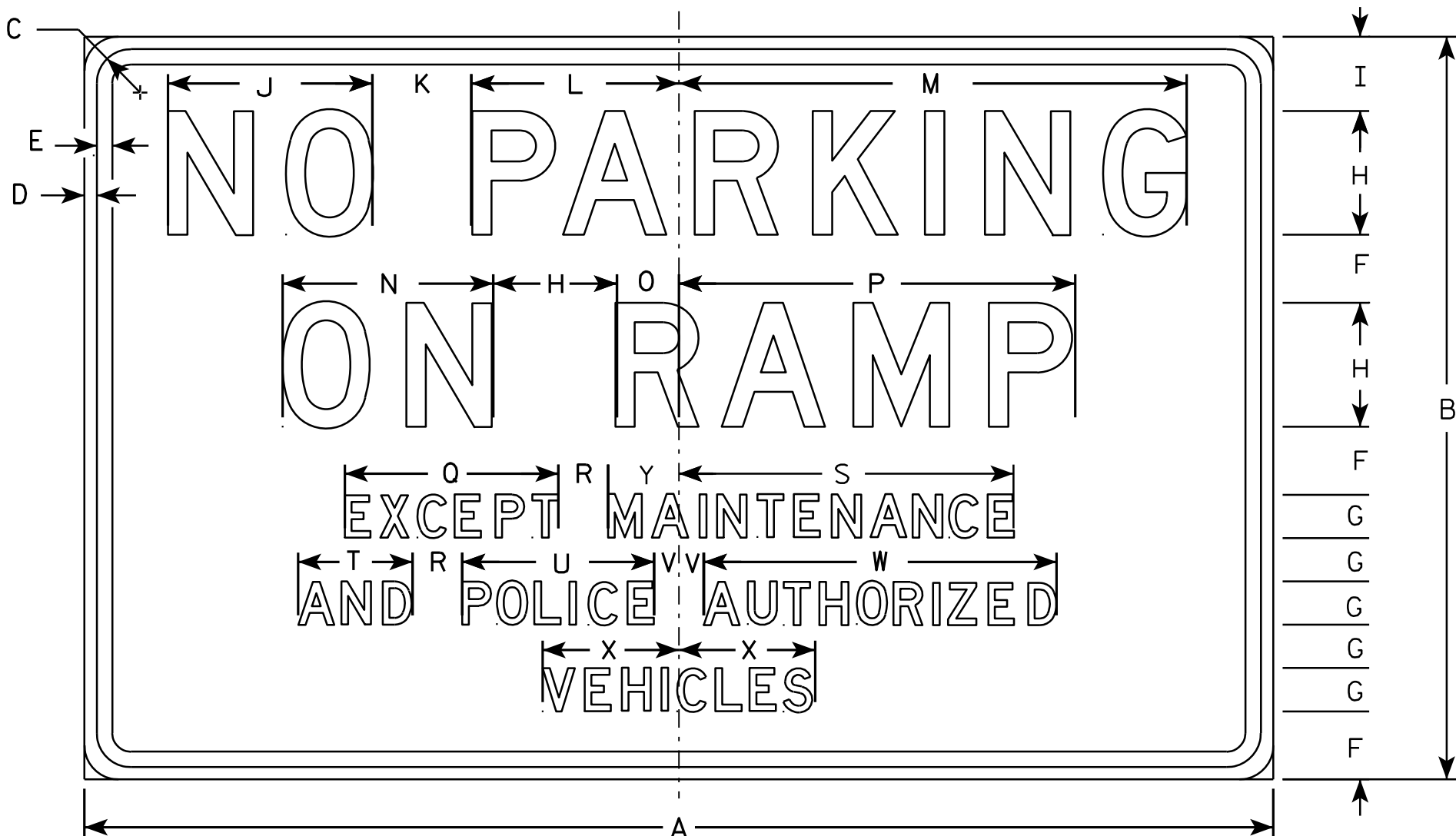
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

SHEET NO: 186

E



NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - WHITE
Message - Lines 1 & 2 and Border are RED
Lines 3, 4, & 5 are BLACK
- Message Series - D
- 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.

R7-64

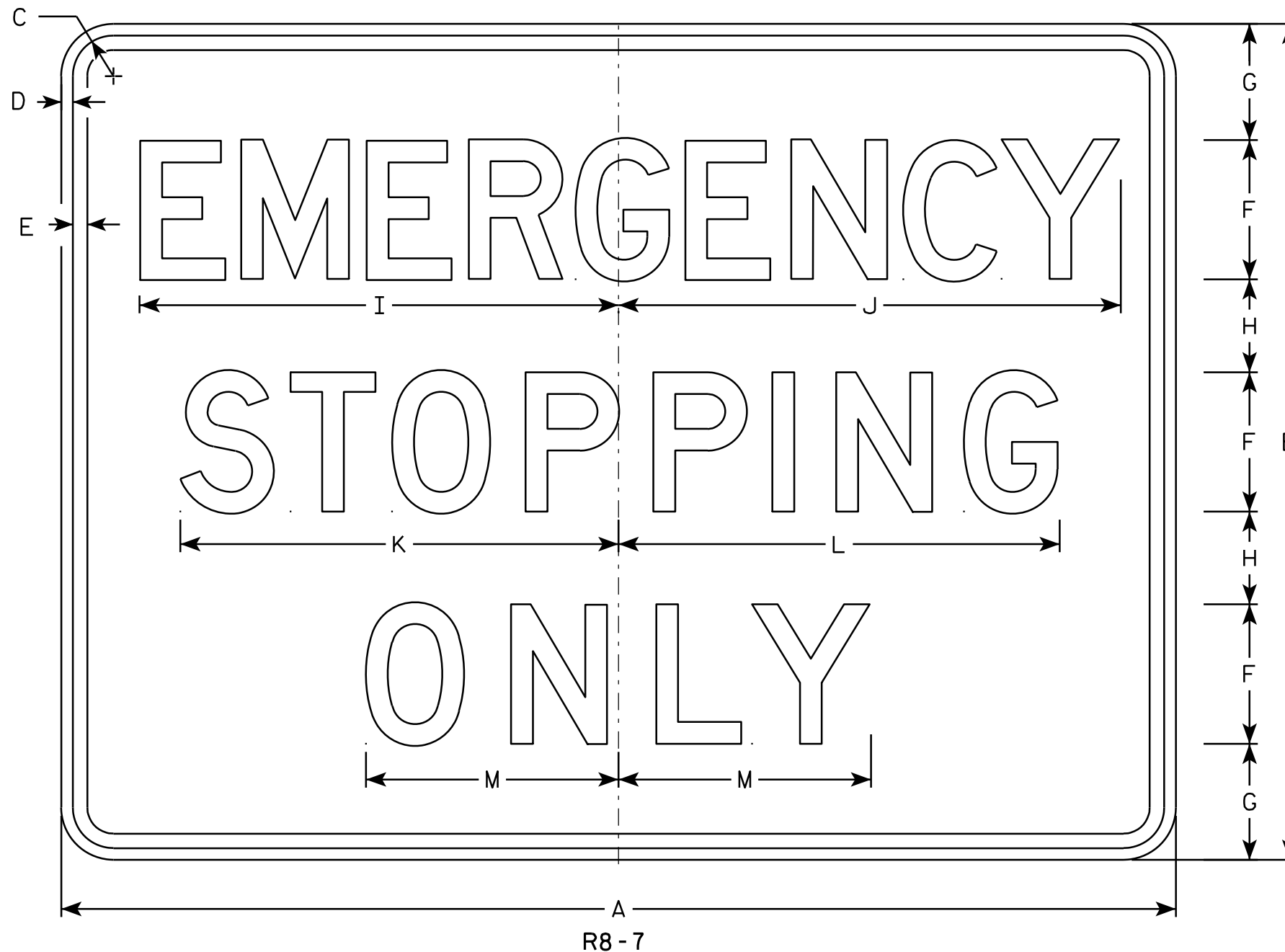
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3	48	30	1 3⁄8	1⁄2	5⁄8	2 3⁄4	1 3⁄4	5	3	8 1⁄4	4	8 3⁄8	20 1⁄2	8 1⁄2	2 1⁄2	16	8 5⁄8	2	13 5⁄8	4 5⁄8	7 3⁄4	1	14 1⁄4	5 1⁄2			10.0
4																											
5																											

STANDARD SIGN R7-64

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 3/31/2011 PLATE NO. R7-64.3

PROJECT NO: SHEET NO: 187 E



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	48	36	1 ¾	½	⅝	6	5	4	20 ⅝	21 ⅝	18 ⅞	19	10 ⅞														12.0
5	48	36	1 ¾	½	⅝	6	5	4	20 ⅝	21 ⅝	18 ⅞	19	10 ⅞														12.0

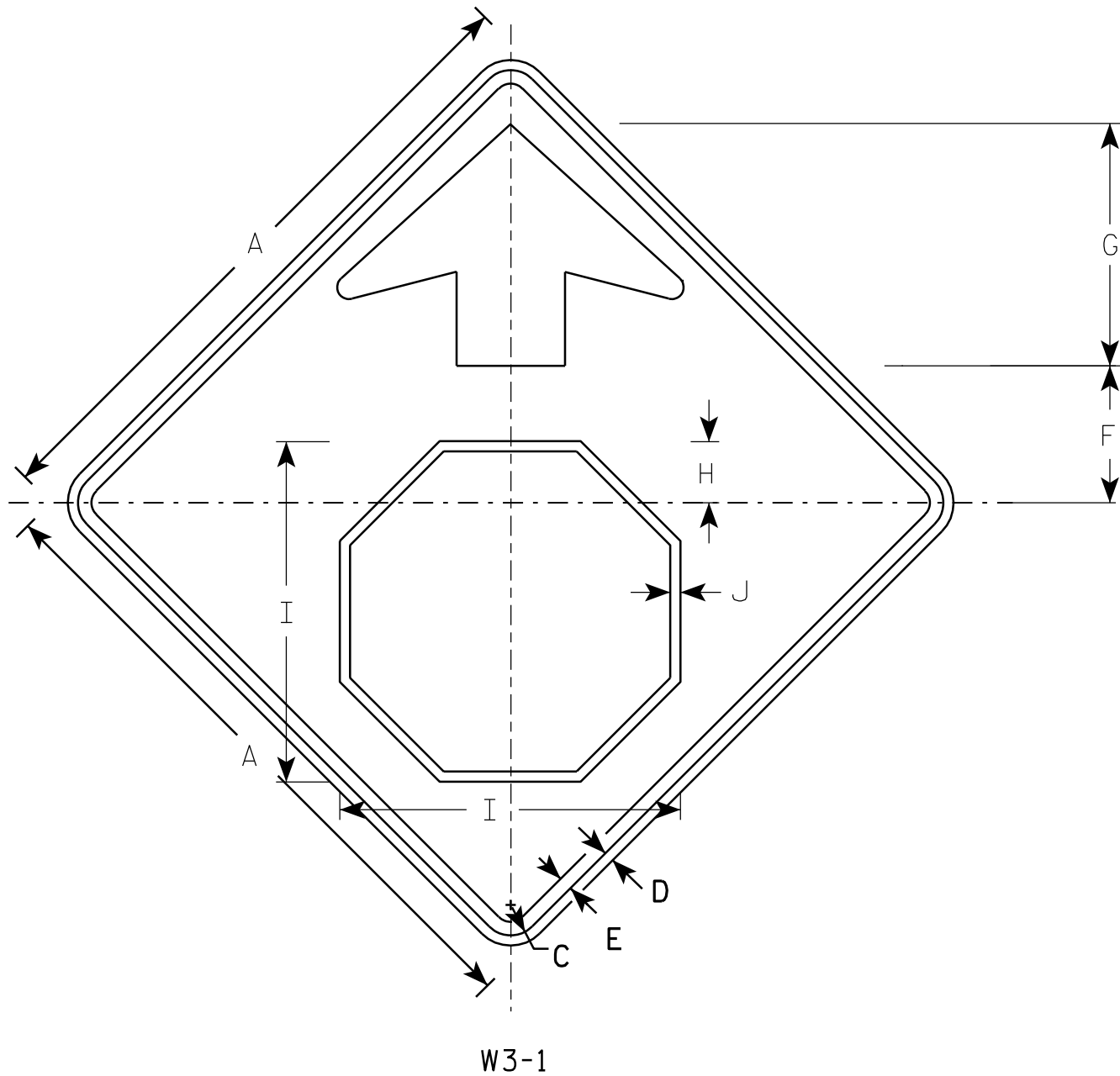
STANDARD SIGN
R8-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

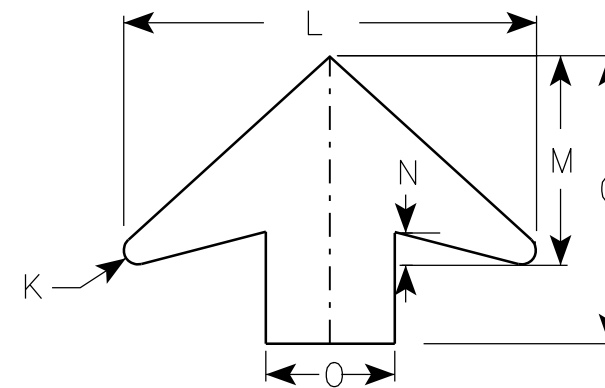
DATE 3/31/2011 PLATE NO. R8-7.6

PROJECT NO: HWY: COUNTY: SHEET NO: 188 E



NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - YELLOW
Arrow & Border - BLACK
Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 ³ / ₈	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

PROJECT NO:

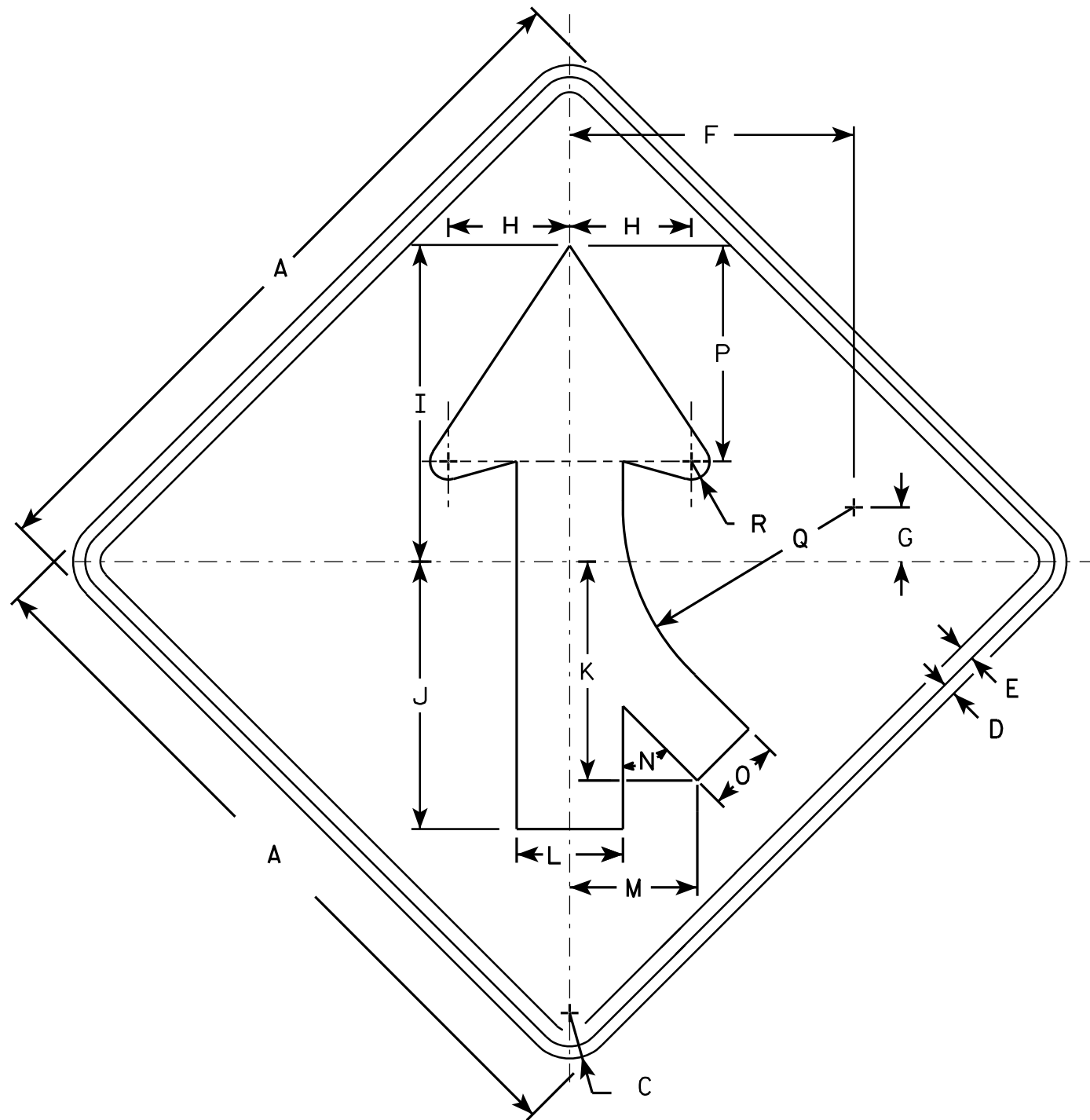
STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO: 189

E



W4-1 R

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. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

STANDARD SIGN

W4 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-1.14

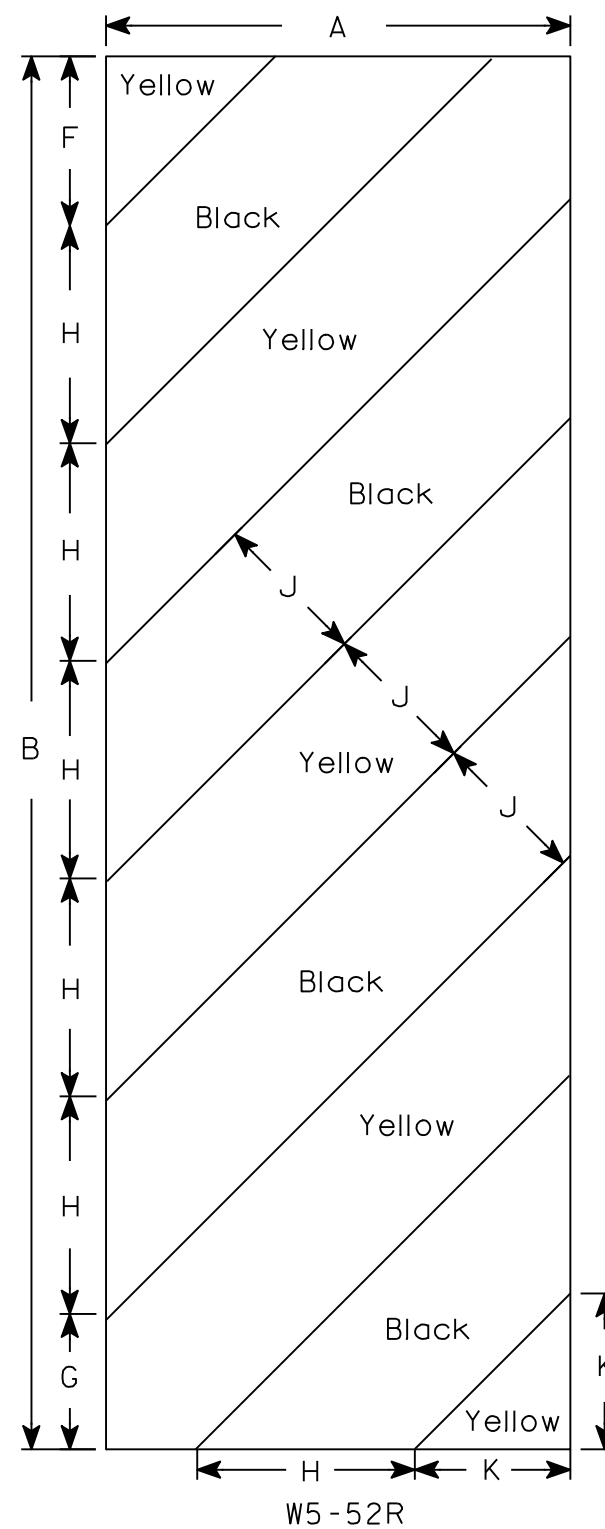
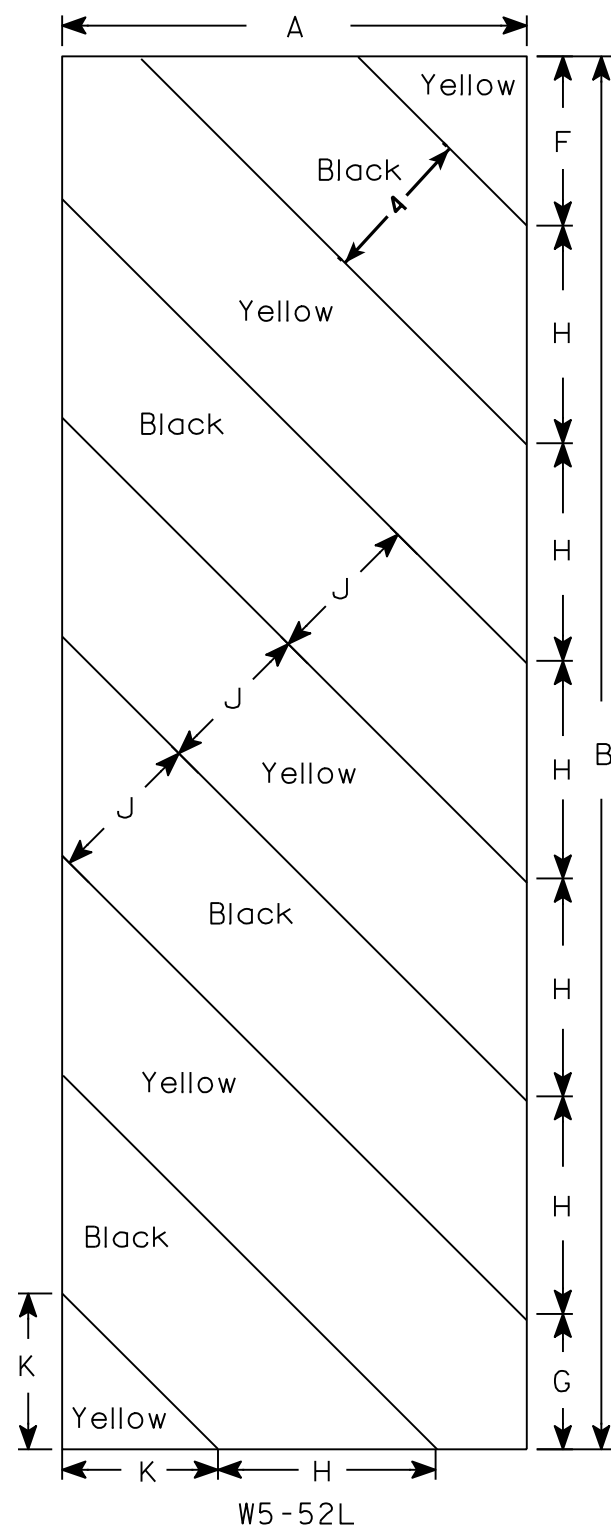
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 190

E



NOTES

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

[illegible]

STANDARD SIGN
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 5/29/12 PLATE NO. W5-52.9

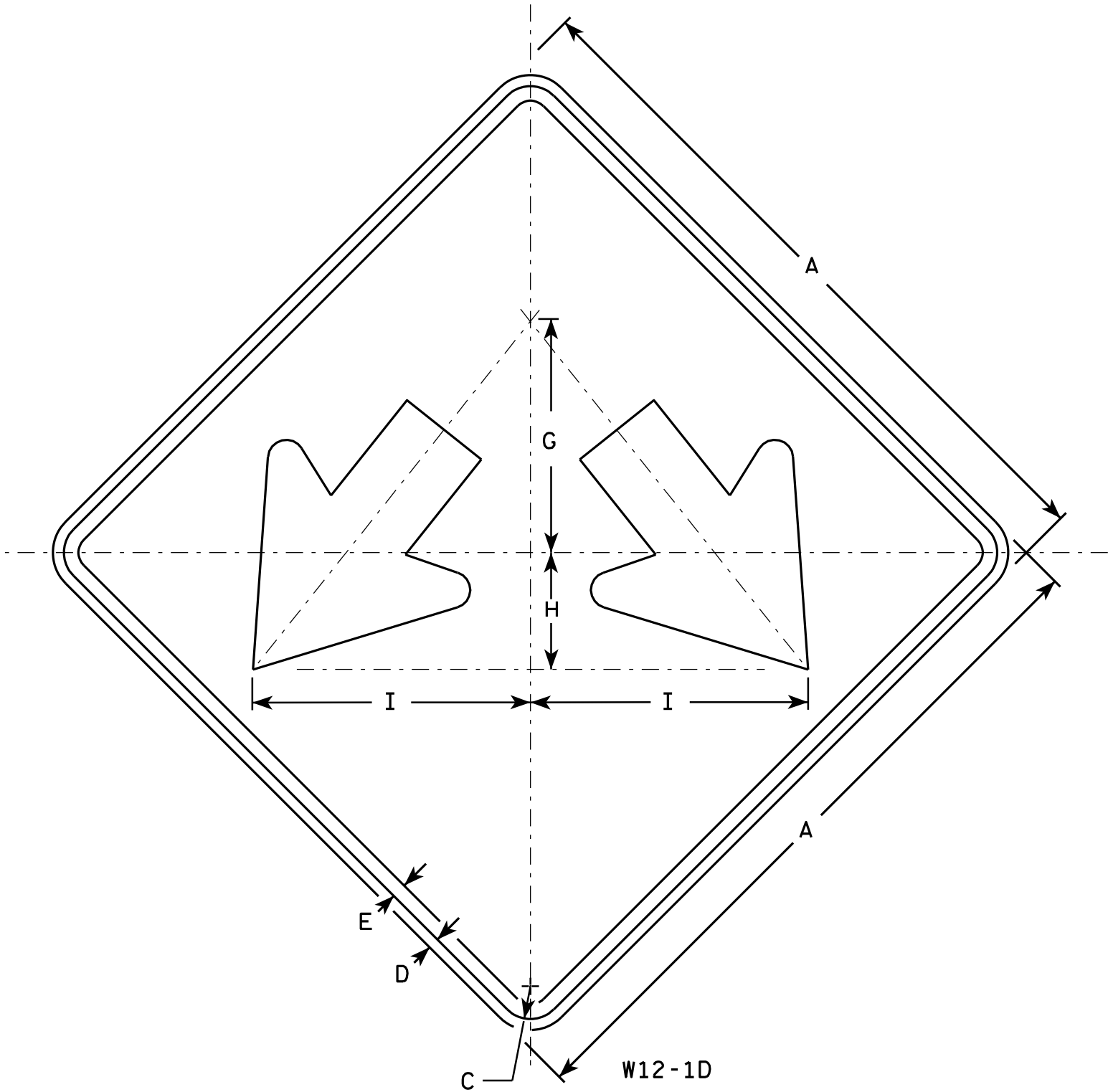
PROJECT NO:

HWY:

COUNTY:

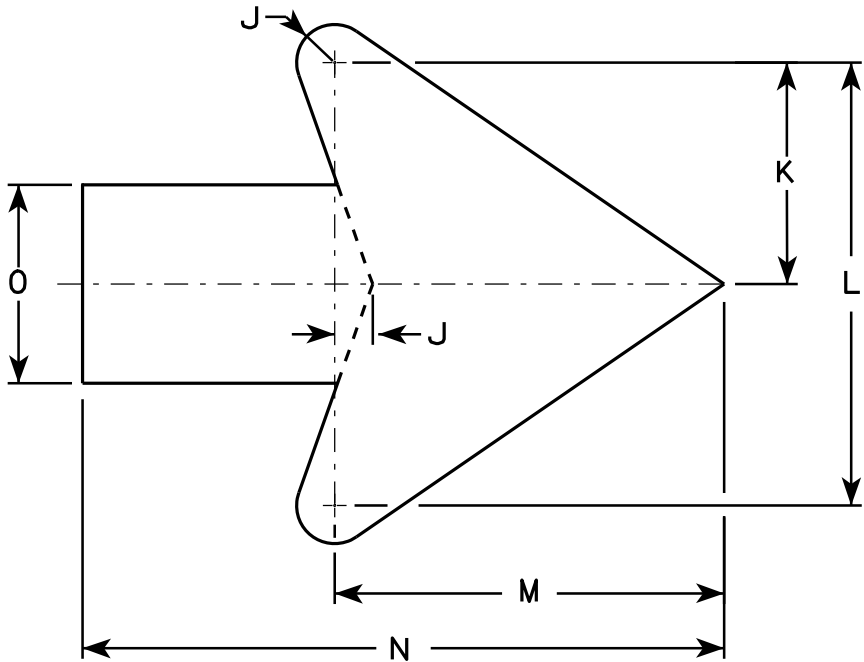
SHEET NO: 191

E



NOTES

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



Arrow Detail

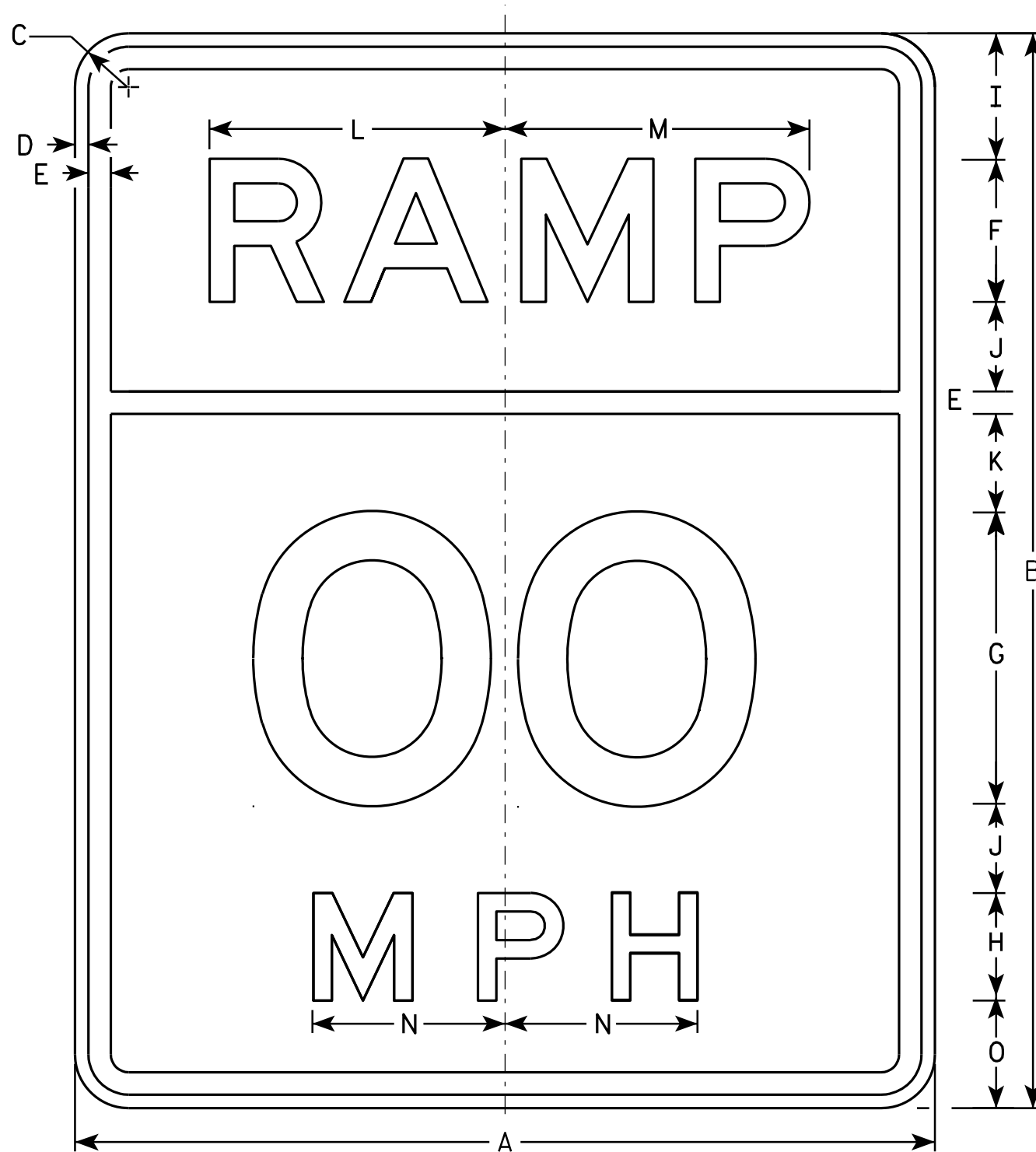
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15



W13-3

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. 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 space about centerline to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
2S	24	30	1 1/8	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
2M	24	30	1 1/8	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
3																											
4	36	48	1 5/8	5/8	7/8	6	12	4	6	4 1/8	5 1/8	13 1/2	13 5/8	7 1/8	6												12.0
5	48	60	2 1/4	3/4	1 1/4	8	16	6	7	5	5 3/4	16 1/2	17	10 5/8	6												20.0

STANDARD SIGN
W13-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/13/13 PLATE NO. W13-3.9

PROJECT NO: HWY: COUNTY: SHEET NO: 193 E

CROSSOVER #1									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
1139+91.24	113991.24	0.00	0.00	4.10	0.00	0.00	0.00	0.00	0.00
1140+00	114000.00	8.76	0.03	6.08	0.01	1.65	0.01	2.06	-2.06
1140+24.68	114024.68	24.68	0.21	9.13	0.11	6.95	0.11	10.75	-10.64
1140+44.13	114044.13	19.45	0.00	0.00	0.08	3.29	0.19	14.86	-14.67
				COLUMN TOTALS	0.19	11.89			

CROSSOVER # 2 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+00R	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
00+25R	25.00	25.00	0.37	28.94	0.17	13.40	0.17	16.75	-16.58
00+50R	50.00	25.00	0.22	28.66	0.28	26.67	0.45	50.08	-49.63
00+75R	75.00	25.00	0.85	14.37	0.50	19.92	0.95	74.99	-74.04
01+00R	100.00	25.00	0.39	4.96	0.57	8.95	1.52	86.17	-84.65
01+25R	125.00	25.00	0.00	0.07	0.18	2.33	1.70	89.08	-87.38
				COLUMN TOTALS	1.70	71.26			

CROSSOVER # 2 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+00R	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
00+25R	25.00	25.00	0.00	0.69	0.00	0.32	0.00	0.40	-0.40
00+50R	50.00	25.00	0.03	9.96	0.01	4.93	0.01	6.56	-6.55
00+75R	75.00	25.00	0.29	14.37	0.15	11.26	0.16	20.64	-20.48
01+00R	100.00	25.00	0.43	6.31	0.33	9.57	0.50	32.61	-32.11
01+25R	125.00	25.00	0.00	0.32	0.20	3.07	0.69	36.44	-35.75
				COLUMN TOTALS	0.69	29.15			

9

9

CROSSOVER #3 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+20S	20.00	0.00	0.00	3.73	0.00	0.00	0.00	0.00	0.00
00+30S	30.00	10.00	0.00	19.28	0.00	4.26	0.00	5.33	-5.33
00+40S	40.00	10.00	0.02	50.70	0.00	12.96	0.00	21.53	-21.52
00+50S	50.00	10.00	0.08	64.18	0.02	21.28	0.02	48.12	-48.10
00+60S	60.00	10.00	0.00	26.27	0.01	16.75	0.04	69.06	-69.02
00+70S	70.00	10.00	0.00	4.17	0.00	5.64	0.04	76.10	-76.07
				COLUMN TOTALS	0.04	60.88			

CROSSOVER #3 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+20S	20.00	0.00	0.29	5.10	0.00	0.00	0.00	0.00	0.00
00+30S	30.00	10.00	0.00	32.26	0.05	6.92	0.05	8.65	-8.60
00+40S	40.00	10.00	0.01	50.53	0.00	15.33	0.06	27.81	-27.76
00+50S	50.00	10.00	0.12	69.03	0.02	22.14	0.08	55.49	-55.41
00+60S	60.00	10.00	0.00	34.76	0.02	19.22	0.10	79.52	-79.41
00+70S	70.00	10.00	0.00	2.01	0.00	6.81	0.11	88.03	-87.92
				COLUMN TOTALS	0.11	70.42			

CROSSOVER #4 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10T	10.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
00+20T	20.00	10.00	0.08	15.45	0.02	2.87	0.02	3.59	-3.57
00+30T	30.00	10.00	0.04	35.55	0.02	9.44	0.04	15.39	-15.35
00+39.97T	39.97	9.97	0.01	0.07	0.01	6.57	0.05	23.61	-23.56
00+50T	50.00	10.03	0.00	0.00	0.00	0.01	0.05	23.63	-23.58
				COLUMN TOTALS	0.05	18.90			

CROSSOVER # 4 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10T	10.00	0.00	0.08	0.02	0.00	0.00	0.00	0.00	0.00
00+20T	20.00	10.00	0.08	21.39	0.03	3.97	0.03	4.96	- 4.93
00+30T	30.00	10.00	0.00	25.47	0.01	8.68	0.04	15.80	- 15.76
00+39.97T	39.97	9.97	0.48	4.79	0.09	5.59	0.13	22.79	- 22.65
00+50T	50.00	10.03	0.18	0.01	0.12	0.89	0.26	23.90	- 23.65
				COLUMN TOTALS	0.26	19.12			

CROSSOVER #5 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+00U	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00
00+25U	25.00	25.00	0.01	22.31	0.01	10.41	0.01	13.01	-13.01
00+50U	50.00	25.00	0.07	5.85	0.04	13.04	0.04	29.31	-29.27
00+65.62U	65.62	15.62	0.26	13.24	0.09	5.52	0.13	36.21	-36.08
00+75U	75.00	9.38	0.51	15.76	0.13	5.04	0.27	42.51	-42.24
01+00U	100.00	25.00	0.88	45.75	0.64	28.48	0.91	78.11	-77.20
01+25U	125.00	25.00	0.00	0.31	0.41	21.33	1.32	104.76	-103.45
				COLUMN TOTALS	1.32	83.81			

CROSSOVER # 5 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+00U	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
00+25U	25.00	25.00	0.00	2.25	0.00	1.09	0.00	1.36	-1.36
00+50U	50.00	25.00	0.00	8.95	0.00	5.19	0.00	7.84	-7.84
00+65.62U	65.62	15.62	0.01	13.38	0.00	6.46	0.00	15.92	-15.91
00+75U	75.00	9.38	0.08	15.87	0.01	5.08	0.02	22.27	-22.25
01+00U	100.00	25.00	0.07	17.17	0.07	15.30	0.09	41.39	-41.31
01+25U	125.00	25.00	0.00	0.35	0.03	8.11	0.12	51.53	-51.41
				COLUMN TOTALS	0.12	41.22			

CROSSOVER # 6 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+00V	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00
00+25V	25.00	25.00	0.01	19.78	0.00	9.24	0.00	11.56	- 11.55
00+50V	50.00	25.00	0.01	20.88	0.01	18.82	0.01	35.08	- 35.07
00+75V	75.00	25.00	0.01	32.48	0.01	24.70	0.02	65.96	- 65.94
01+00V	100.00	25.00	0.02	89.41	0.01	56.43	0.04	136.50	- 136.46
01+25V	125.00	25.00	0.08	137.76	0.05	105.17	0.08	267.96	- 267.88
01+50V	150.00	25.00	0.00	1.77	0.04	64.60	0.12	348.71	- 348.59
01+75V	175.00	25.00	0.00	0.20	0.00	0.91	0.13	349.85	- 349.73
				COLUMN TOTALS	0.13	279.88			

CROSSOVER #6 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+00V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
00+25V	25.00	25.00	0.47	2.11	0.22	0.98	0.22	1.22	-1.01
00+50V	50.00	25.00	0.00	37.84	0.22	18.50	0.43	24.35	-23.91
00+75V	75.00	25.00	0.03	42.90	0.01	37.38	0.45	71.07	-70.62
01+00V	100.00	25.00	0.00	100.27	0.01	66.28	0.46	153.92	-153.46
01+25V	125.00	25.00	0.00	122.38	0.00	103.08	0.46	282.77	-282.31
01+50V	150.00	25.00	0.10	5.02	0.04	58.98	0.50	356.49	-355.99
01+75V	175.00	25.00	0.00	0.32	0.04	2.47	0.55	359.58	-359.03
				COLUMN TOTALS	0.55	287.67			

CROSSOVER # 7 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+00W	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
00+25W	25.00	25.00	0.11	23.77	0.05	11.05	0.05	13.82	-13.76
00+50W	50.00	25.00	0.48	0.35	0.27	11.17	0.32	27.78	-27.45
00+75W	75.00	25.00	0.01	0.73	0.23	0.50	0.55	28.40	-27.85
01+00W	100.00	25.00	0.13	0.01	0.07	0.34	0.62	28.83	-28.21
01+25W	125.00	25.00	0.24	0.76	0.17	0.36	0.79	29.28	-28.48
01+50W	150.00	25.00	0.01	3.38	0.11	1.91	0.91	31.67	-30.76
01+75W	175.00	25.00	0.00	0.33	0.01	1.71	0.91	33.81	-32.90
01+97.21W	197.21	22.21	0.00	0.00	0.00	0.13	0.91	33.98	-33.07
				COLUMN TOTALS	0.91	27.18			

CROSSOVER # 7 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+00W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
00+25W	25.00	25.00	0.01	18.95	0.00	8.77	0.00	10.97	-10.97
00+50W	50.00	25.00	0.06	3.34	0.03	10.32	0.03	23.87	-23.84
00+75W	75.00	25.00	0.00	1.75	0.03	2.36	0.06	26.82	-26.75
01+00W	100.00	25.00	0.00	1.47	0.00	1.49	0.06	28.68	-28.62
01+25W	125.00	25.00	0.00	0.96	0.00	1.13	0.06	30.09	-30.03
01+50W	150.00	25.00	0.01	15.04	0.00	7.41	0.06	39.35	-39.29
01+75W	175.00	25.00	0.46	5.60	0.22	9.56	0.28	51.30	-51.02
01+97.21W	197.21	22.21	0.00	0.02	0.19	2.31	0.47	54.19	-53.72
				COLUMN TOTALS	0.47	43.35			

CROSSOVER #8 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10X	10.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
00+20X	20.00	10.00	0.00	41.24	0.00	7.65	0.00	9.57	-9.57
00+30X	30.00	10.00	0.00	95.71	0.00	25.36	0.00	41.27	-41.27
00+40X	40.00	10.00	0.00	47.91	0.00	26.59	0.00	74.51	-74.51
00+50X	50.00	10.00	0.00	11.00	0.00	10.91	0.00	88.15	-88.15
00+60X	60.00	10.00	0.00	0.10	0.00	2.06	0.00	90.72	-90.72
				COLUMN TOTALS	0.00	72.57			

CROSSOVER # 8 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10X	10.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
00+20X	20.00	10.00	0.00	0.26	0.00	0.06	0.00	0.07	-0.07
00+30X	30.00	10.00	0.01	33.43	0.00	6.24	0.00	7.87	-7.87
00+40X	40.00	10.00	0.15	5.25	0.03	7.16	0.03	16.82	-16.79
00+50X	50.00	10.00	0.13	5.87	0.05	2.06	0.08	19.40	-19.32
00+60X	60.00	10.00	0.00	0.04	0.02	1.09	0.11	20.77	-20.66
				COLUMN TOTALS	0.11	16.61			

CROSSOVER #9 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Expanded Fill	
					Note 1	Note 3	Note 1		Note 8
00+10Y	10.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00
00+20Y	20.00	10.00	0.05	5.05	0.01	0.98	0.01	1.22	-1.21
00+30Y	30.00	10.00	0.22	8.63	0.05	2.53	0.06	4.39	-4.33
00+40Y	40.00	10.00	4.28	1.94	0.83	1.96	0.89	6.84	-5.94
00+50Y	50.00	10.00	0.00	0.01	0.79	0.36	1.69	7.29	-5.60
				COLUMN TOTALS	1.69	5.83			

CROSSOVER # 9 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Expanded Fill	
					Note 1	Note 3	Note 1		Note 8
00+10Y	10.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00
00+20Y	20.00	10.00	0.00	4.71	0.00	0.91	0.00	1.14	-1.14
00+30Y	30.00	10.00	0.00	21.63	0.00	4.88	0.00	7.23	-7.23
00+40Y	40.00	10.00	0.00	10.49	0.00	5.95	0.00	14.67	-14.67
00+50Y	50.00	10.00	0.00	0.12	0.00	1.96	0.00	17.13	-17.13
				COLUMN TOTALS	0.00	13.70			

CULVERT EXTENSION									
STATION	Real Station	Distance	AREA (SF)	Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate	
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1		Expanded Fill 1.25
2004+75	200475.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
2005+00	200500.00	25.00	0.00	77.23	0.09	35.76	0.09	44.70	-44.60
2005+06.86	200506.86	6.86	0.00	135.03	0.00	26.96	0.09	78.40	-78.31
2005+25	200525.00	18.14	0.00	0.12	0.00	45.40	0.09	135.15	-135.06
				COLUMN TOTALS	0.09	108.12			

CROSSOVER #10 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10Z	10.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00
00+20Z	20.00	10.00	0.00	7.08	0.00	1.37	0.00	1.71	-1.71
00+30Z	30.00	10.00	0.01	19.67	0.00	4.95	0.00	7.90	-7.90
00+40Z	40.00	10.00	0.00	37.87	0.00	10.66	0.01	21.22	-21.21
00+50Z	50.00	10.00	0.09	43.27	0.02	15.03	0.02	40.00	-39.98
00+51Z	51.00	1.00	0.03	41.40	0.00	1.57	0.02	41.96	-41.94
00+60Z	60.00	9.00	0.00	9.03	0.00	8.41	0.03	52.47	-52.44
00+70Z	70.00	10.00	0.01	0.16	0.00	1.70	0.03	54.60	-54.57
				COLUMN TOTALS	0.03	43.68			

CROSSOVER #10 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10Z	10.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00
00+20Z	20.00	10.00	0.00	0.92	0.00	0.20	0.00	0.25	-0.25
00+30Z	30.00	10.00	0.03	5.46	0.01	1.18	0.01	1.72	-1.72
00+40Z	40.00	10.00	0.02	12.74	0.01	3.37	0.01	5.94	-5.92
00+50Z	50.00	10.00	0.01	9.92	0.01	4.20	0.02	11.18	-11.16
00+51Z	51.00	1.00	0.00	9.14	0.00	0.35	0.02	11.62	-11.60
00+60Z	60.00	9.00	0.01	4.72	0.00	2.31	0.02	14.51	-14.49
00+70Z	70.00	10.00	0.00	0.31	0.00	0.93	0.02	15.68	-15.65
				COLUMN TOTALS	0.02	12.54			

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CROSSOVER #11 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10AA	10.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
00+20AA	20.00	10.00	0.01	7.22	0.00	1.36	0.00	1.70	-1.70
00+30AA	30.00	10.00	0.00	34.24	0.00	7.68	0.00	11.30	-11.29
00+40AA	40.00	10.00	0.00	46.15	0.00	14.89	0.01	29.90	-29.90
00+50AA	50.00	10.00	0.13	27.36	0.02	13.61	0.03	46.92	-46.89
00+60AA	60.00	10.00	0.53	15.80	0.12	7.99	0.15	56.91	-56.76
00+70AA	70.00	10.00	0.00	7.75	0.10	4.36	0.25	62.36	-62.11
00+80AA	80.00	10.00	0.08	2.45	0.02	1.89	0.26	64.72	-64.46
00+90AA	90.00	10.00	0.00	0.00	0.02	0.45	0.28	65.29	-65.01
				COLUMN TOTALS	0.28	52.23			

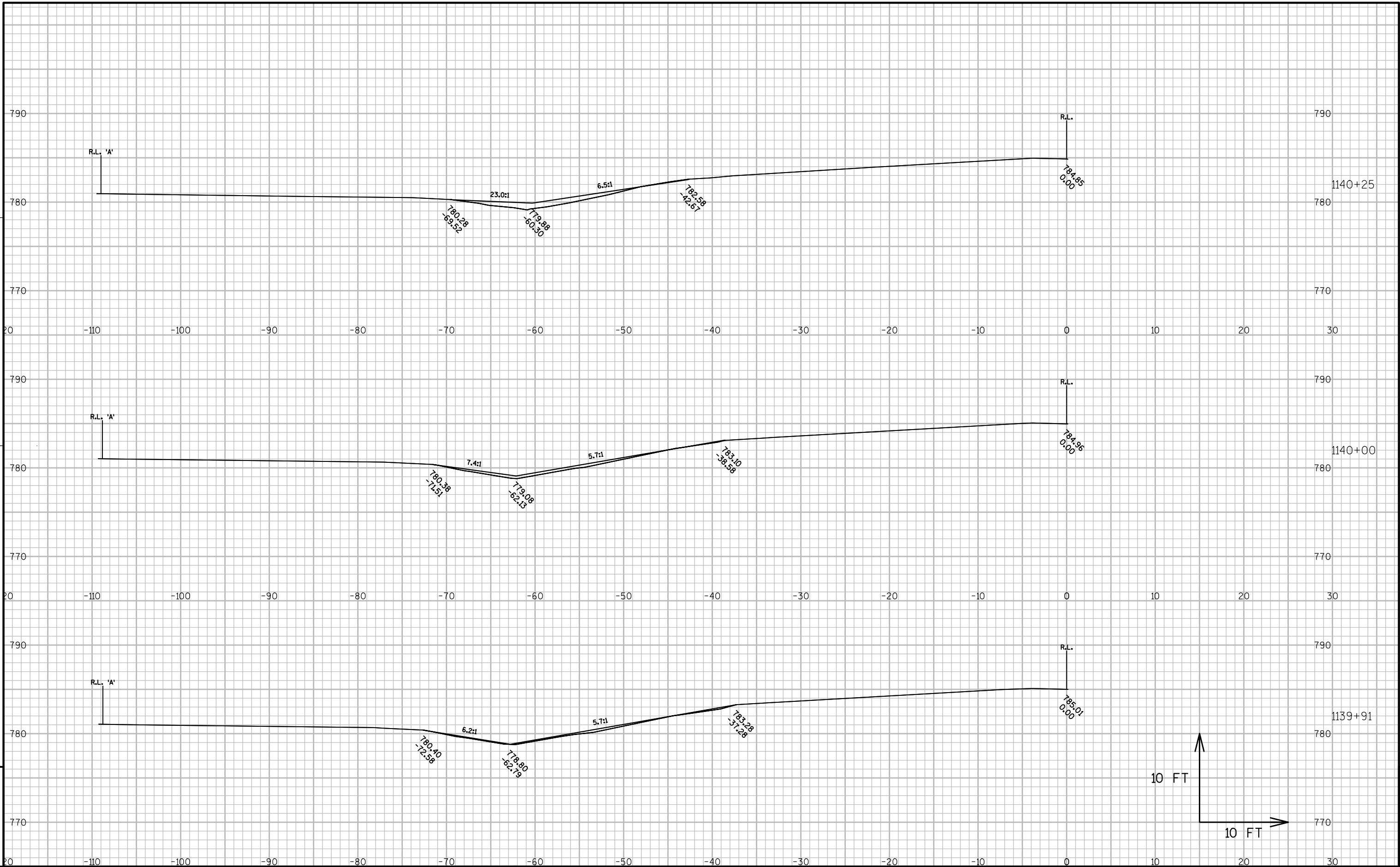
CROSSOVER #11 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10AA	10.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00
00+20AA	20.00	10.00	0.00	14.20	0.00	2.76	0.00	3.45	-3.45
00+30AA	30.00	10.00	0.00	81.12	0.00	17.65	0.00	25.51	-25.51
00+40AA	40.00	10.00	0.00	195.62	0.00	51.25	0.00	89.57	-89.57
00+50AA	50.00	10.00	0.00	169.95	0.00	67.70	0.00	174.19	-174.19
00+60AA	60.00	10.00	0.00	108.91	0.00	51.64	0.00	238.74	-238.74
00+70AA	70.00	10.00	0.01	44.76	0.00	28.46	0.00	274.32	-274.31
00+80AA	80.00	10.00	0.05	27.76	0.01	13.43	0.01	291.10	-291.09
00+90AA	90.00	10.00	0.25	0.05	0.06	5.15	0.07	297.54	-297.47
				COLUMN TOTALS	0.07	238.03			

CROSSOVER #12 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10	10.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00
00+20BB	20.00	10.00	0.01	11.50	0.00	2.18	0.00	2.73	-2.73
00+30BB	30.00	10.00	0.00	22.37	0.00	6.27	0.00	10.57	-10.57
00+34.22BB	34.22	4.22	0.10	47.26	0.01	5.45	0.01	17.38	-17.37
00+40BB	40.00	5.78	0.23	6.88	0.04	5.79	0.05	24.62	-24.57
00+50BB	50.00	10.00	0.01	0.05	0.04	1.28	0.09	26.22	-26.13
				COLUMN TOTALS	0.09	20.98			

CROSSOVER #12 RT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.25	
00+10BB	10.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
00+20BB	20.00	10.00	0.14	1.75	0.03	0.35	0.03	0.44	-0.41
00+30BB	30.00	10.00	0.10	33.75	0.05	6.57	0.07	8.66	-8.58
00+34.22BB	34.22	4.22	0.29	33.01	0.03	5.22	0.10	15.18	-15.08
00+40BB	40.00	5.78	0.04	34.51	0.04	7.22	0.14	24.21	-24.07
00+50BB	50.00	10.00	0.04	0.00	0.01	6.39	0.15	32.20	-32.04
				COLUMN TOTALS	0.15	25.76			

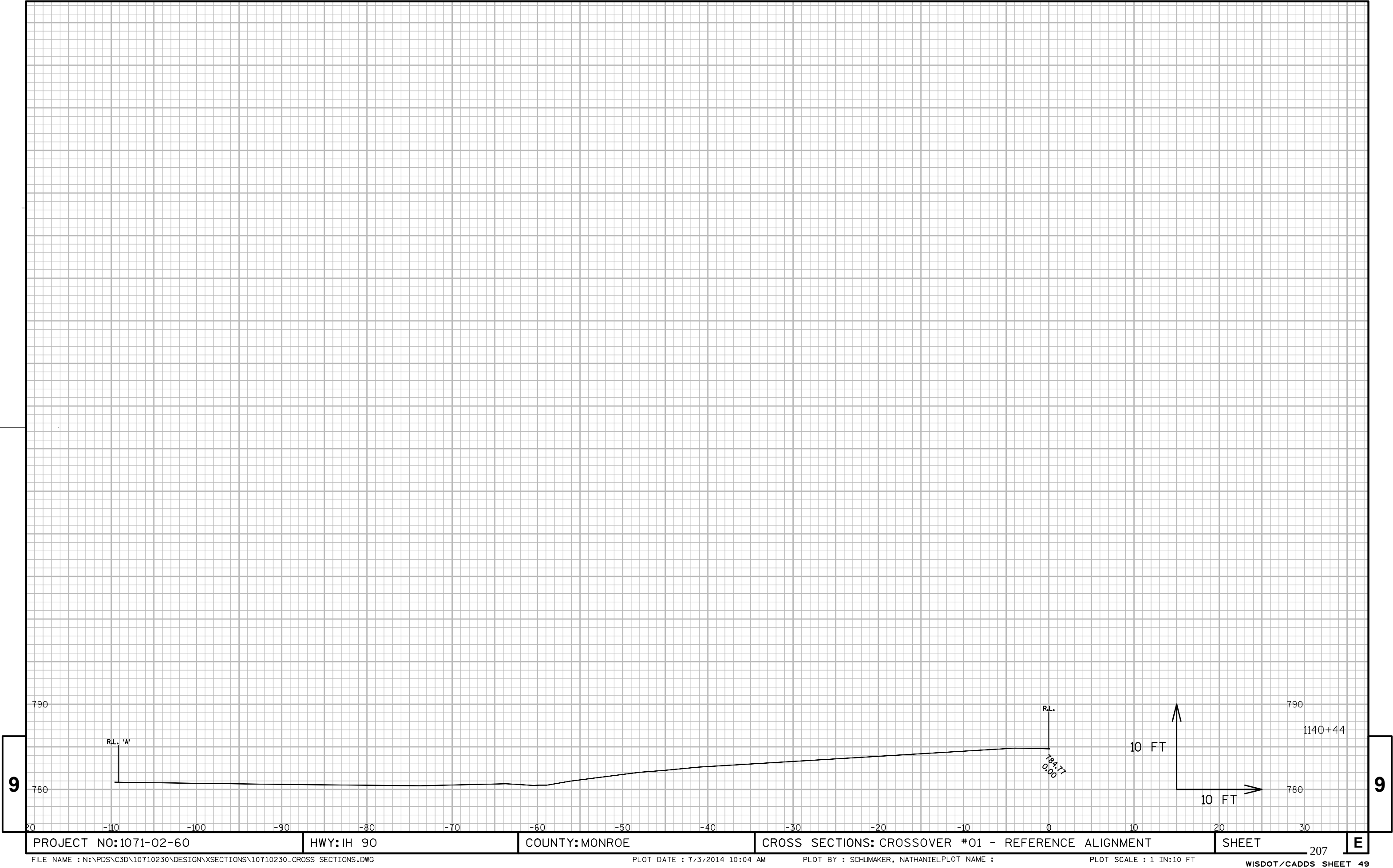
CROSSOVER #13 LT									
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10 CC	10.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00	0.00
00+20CC	20.00	10.00	0.01	36.40	0.00	6.92	0.00	8.65	-8.64
00+30CC	30.00	10.00	0.00	72.71	0.00	20.21	0.00	33.90	-33.90
00+38.93CC	38.93	8.93	0.06	50.73	0.01	20.41	0.01	59.42	-59.40
00+40CC	40.00	1.07	0.08	49.60	0.00	1.99	0.02	61.90	-61.89
00+50CC	50.00	10.00	0.40	25.76	0.09	13.96	0.11	79.35	-79.24
00+60CC	60.00	10.00	0.00	0.07	0.07	4.78	0.18	85.33	-85.14
				COLUMN TOTALS	0.18	68.26			

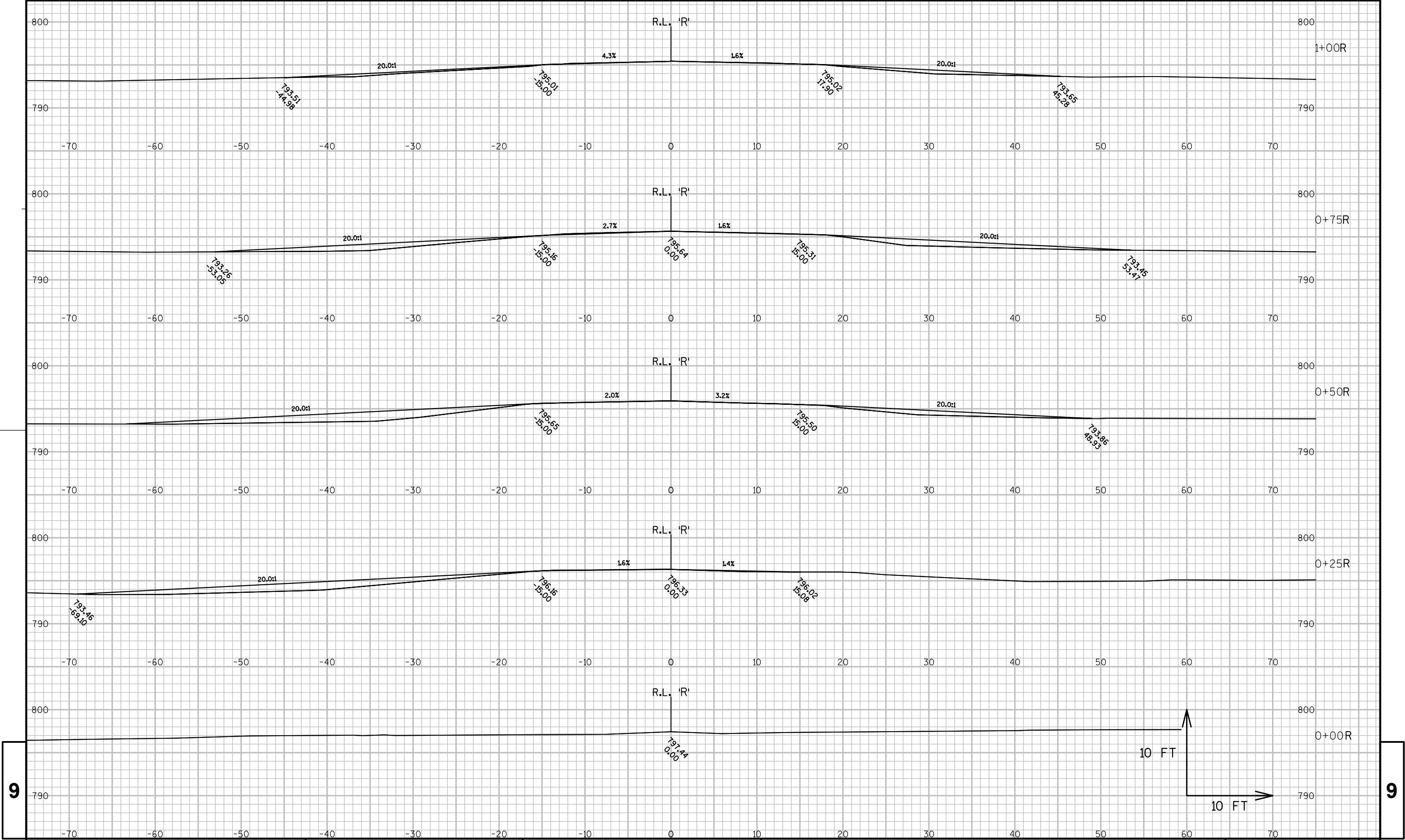
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STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.25	
00+10CC	10.00	0.00	0.14	1.57	0.00	0.00	0.00	0.00	0.00
00+20CC	20.00	10.00	0.16	26.33	0.06	5.17	0.06	6.46	-6.40
00+30CC	30.00	10.00	0.12	44.66	0.05	13.15	0.11	22.89	-22.78
00+38.93CC	38.93	8.93	0.04	62.19	0.03	17.67	0.14	44.98	-44.84
00+40CC	40.00	1.07	0.05	61.63	0.00	2.45	0.14	48.05	-47.91
00+50CC	50.00	10.00	0.02	43.04	0.01	19.38	0.15	72.28	-72.13
00+60CC	60.00	10.00	0.07	0.06	0.02	7.98	0.17	82.25	-82.09
				COLUMN TOTALS	0.17	65.80			

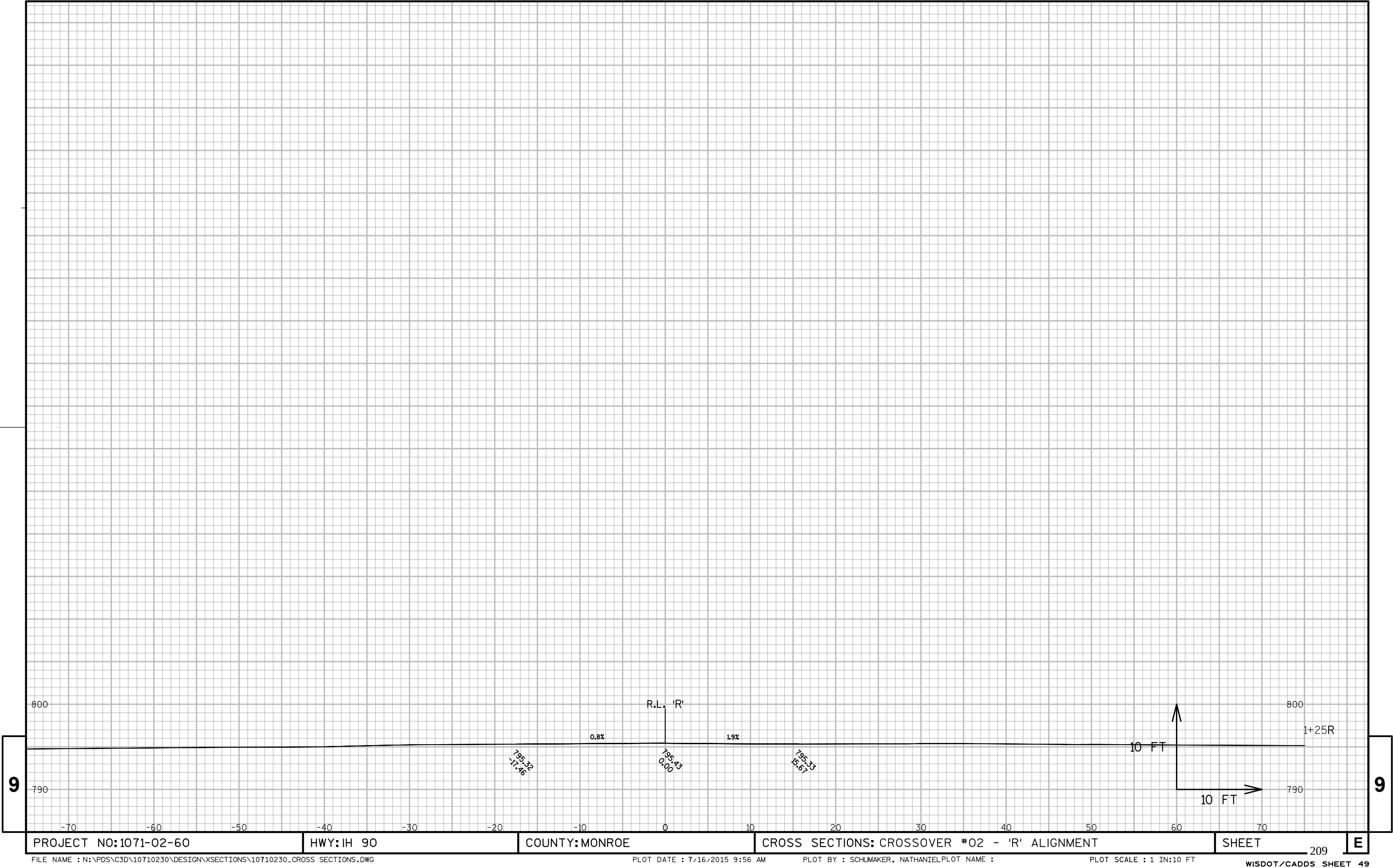


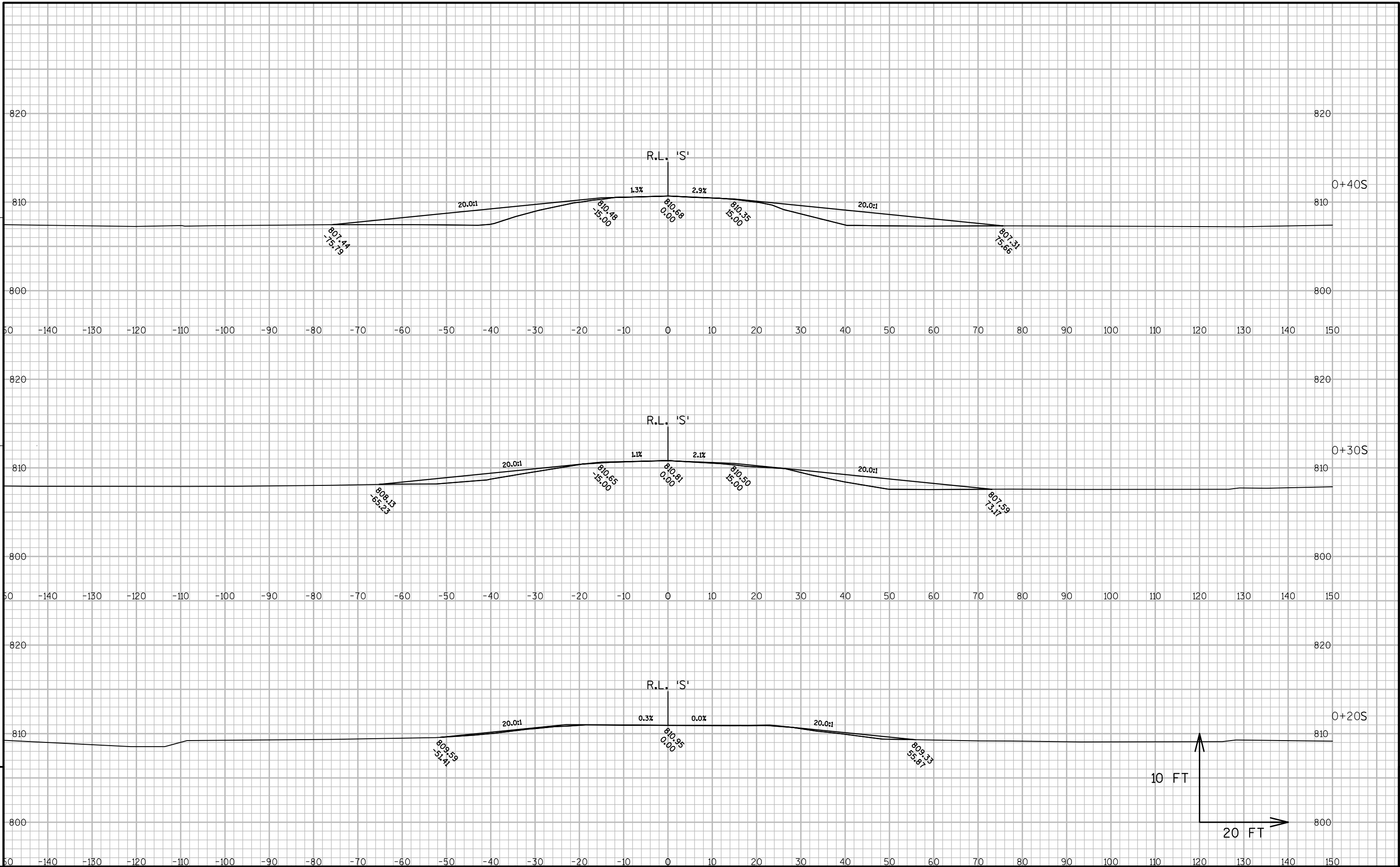
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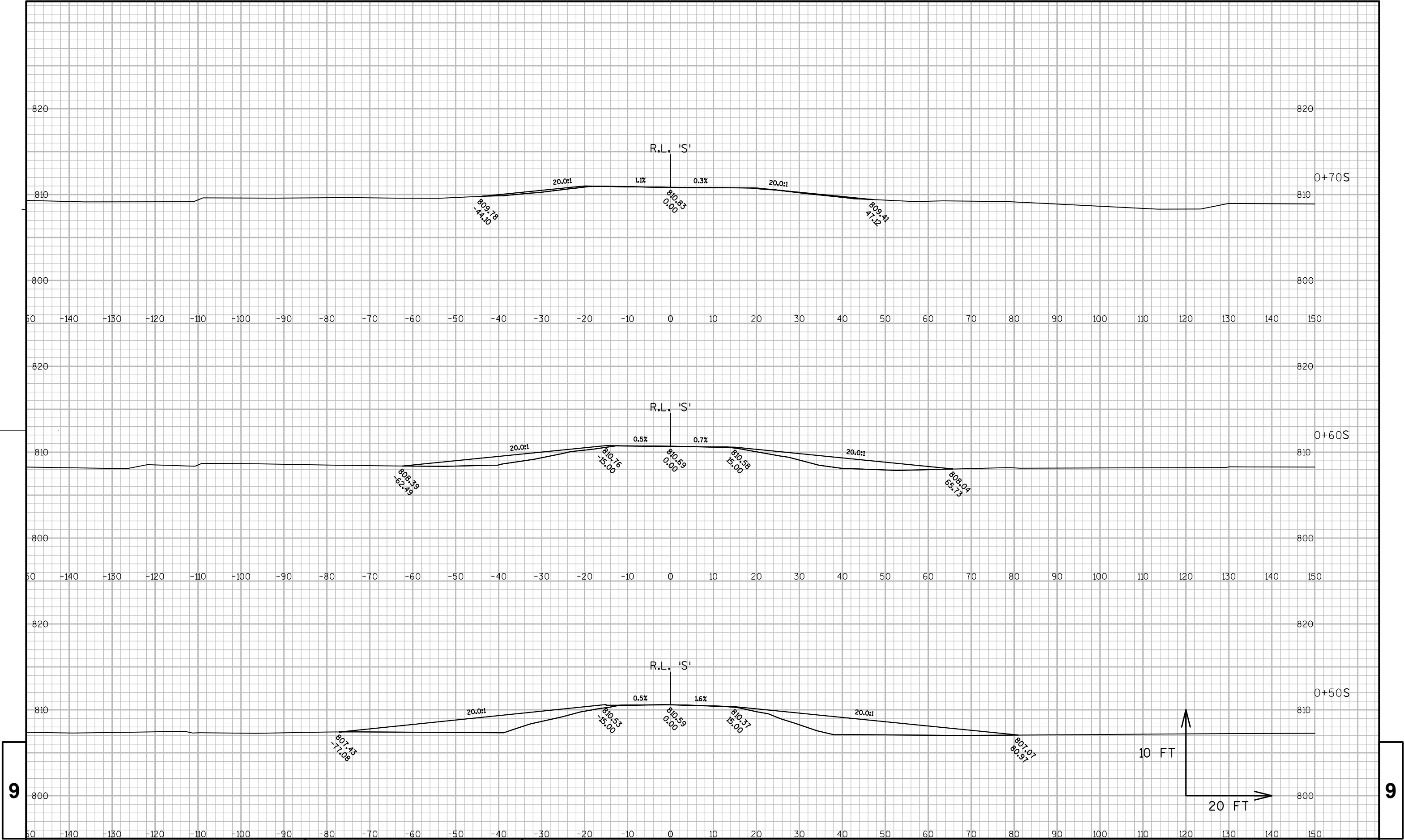
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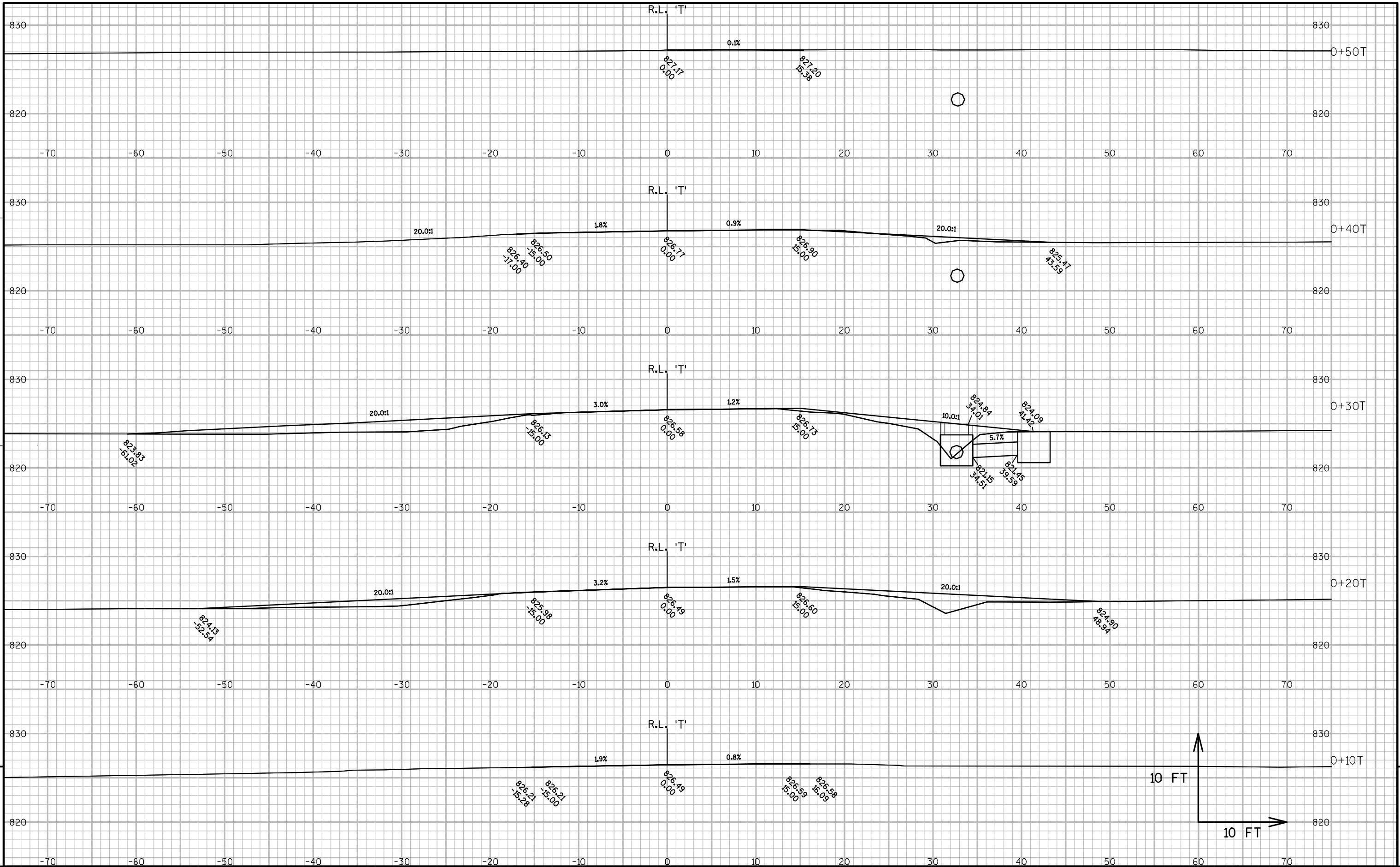


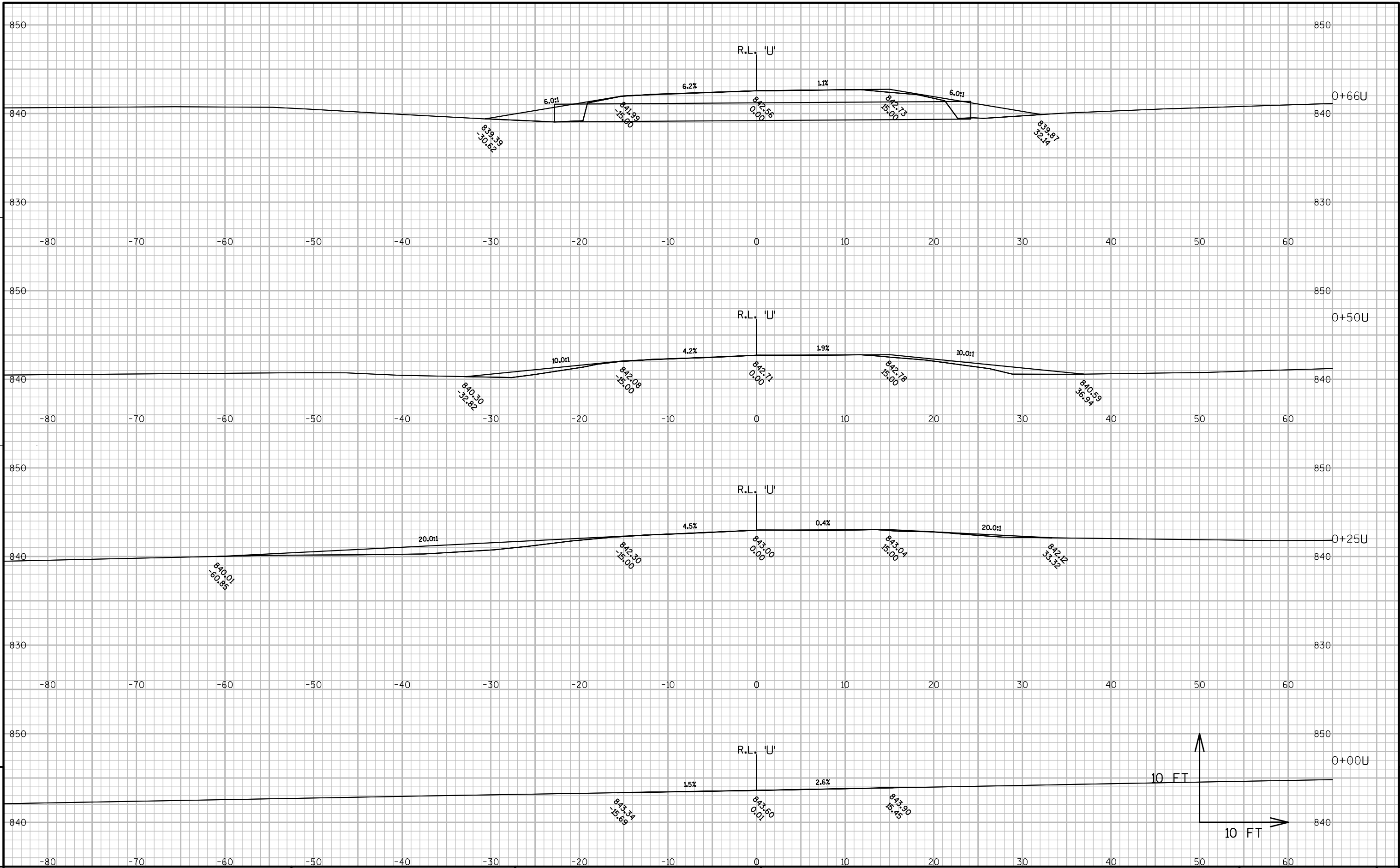


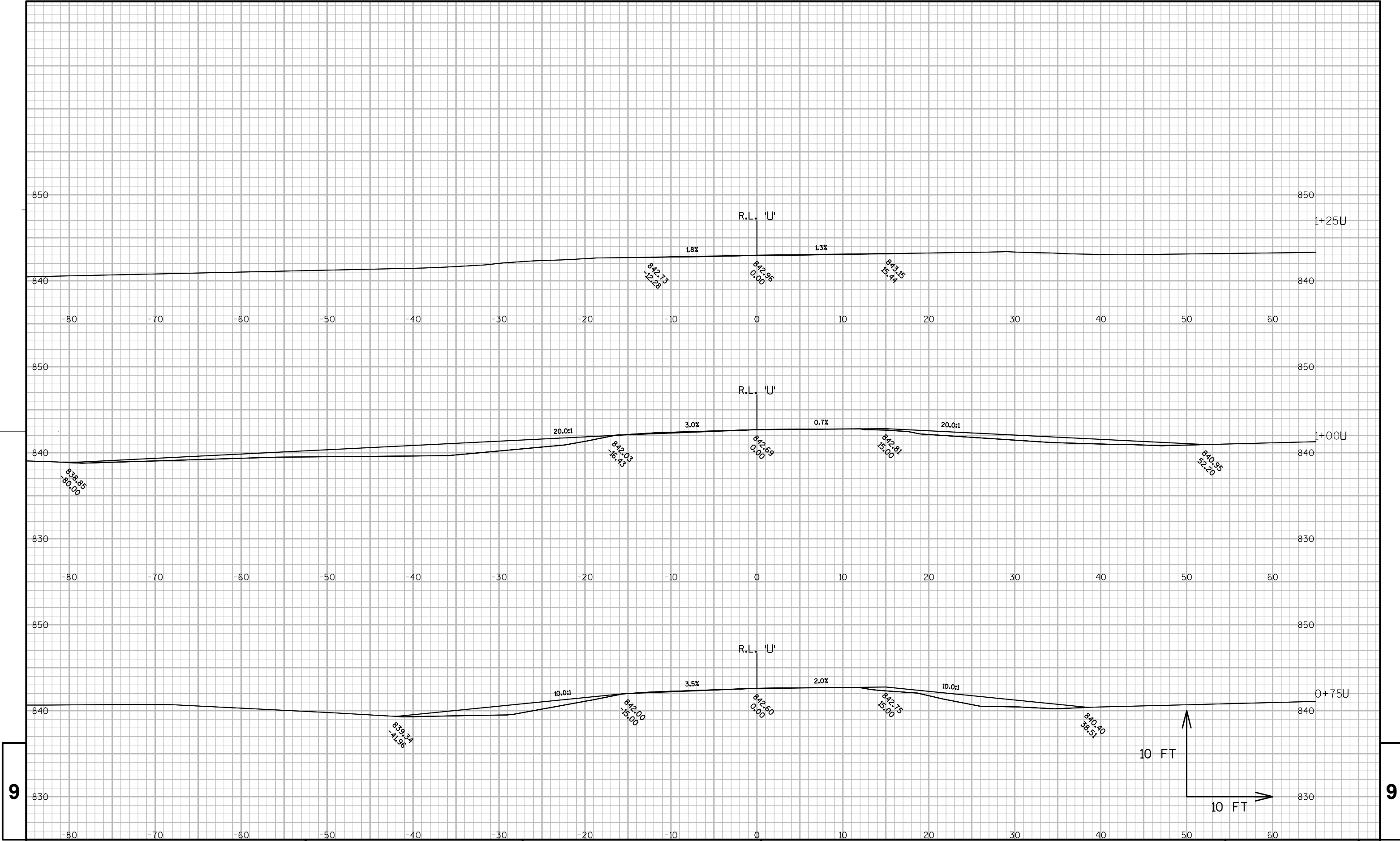


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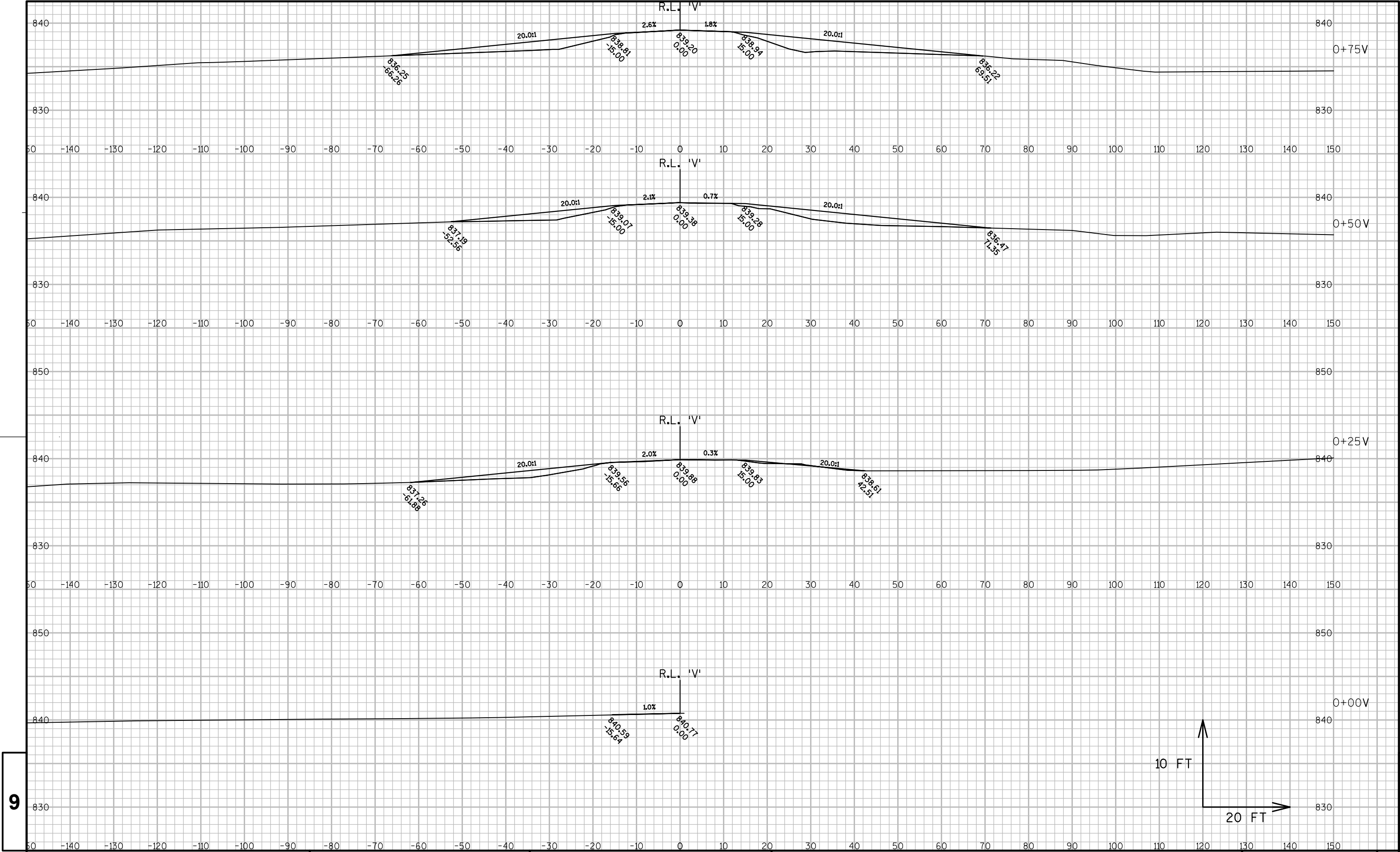






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PROJECT NO:1071-02-60

HWY: IH 90

COUNTY: MONROE

CROSS SECTIONS: CROSSOVER #06 - 'V' ALIGNMENT

SHEET

215

E

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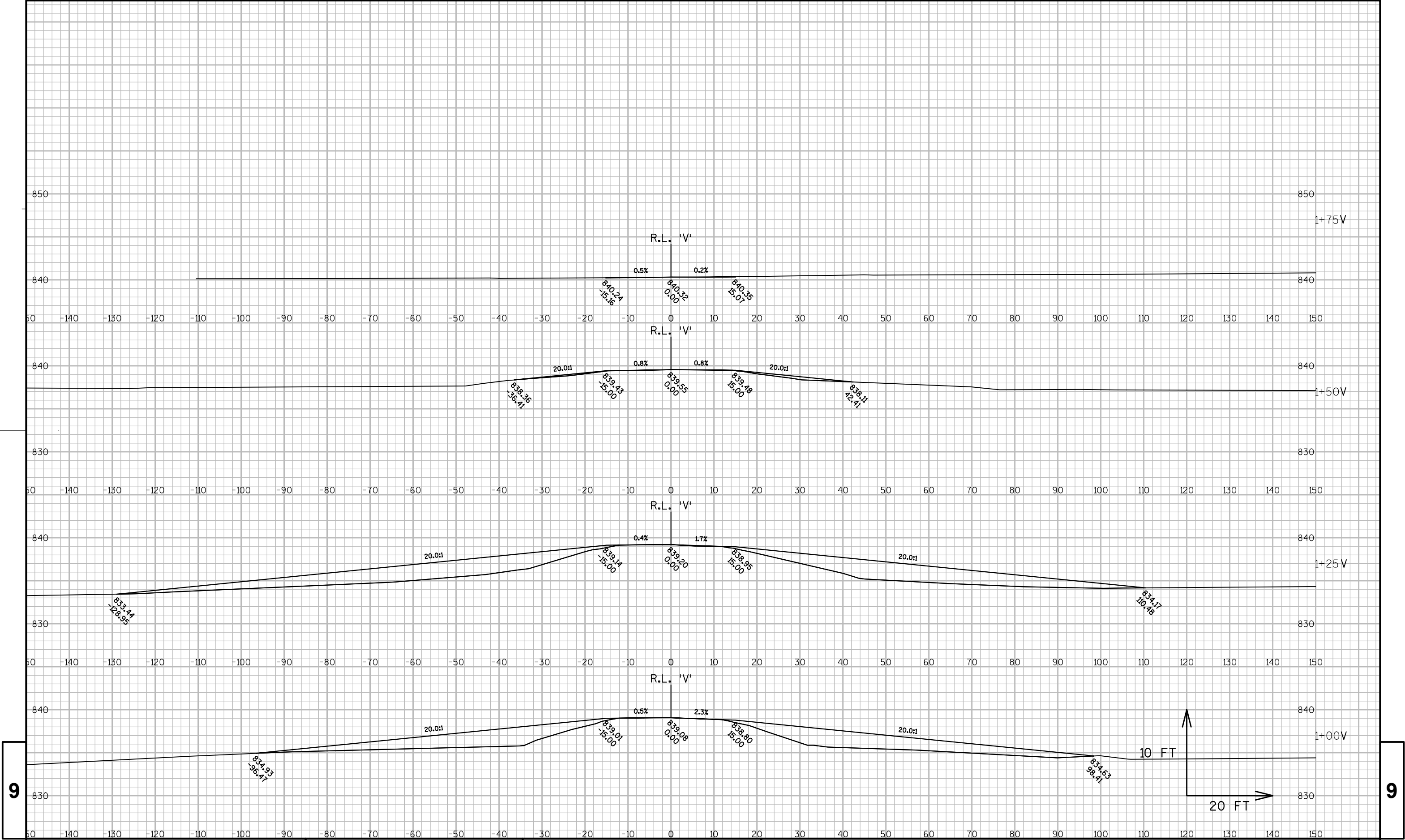
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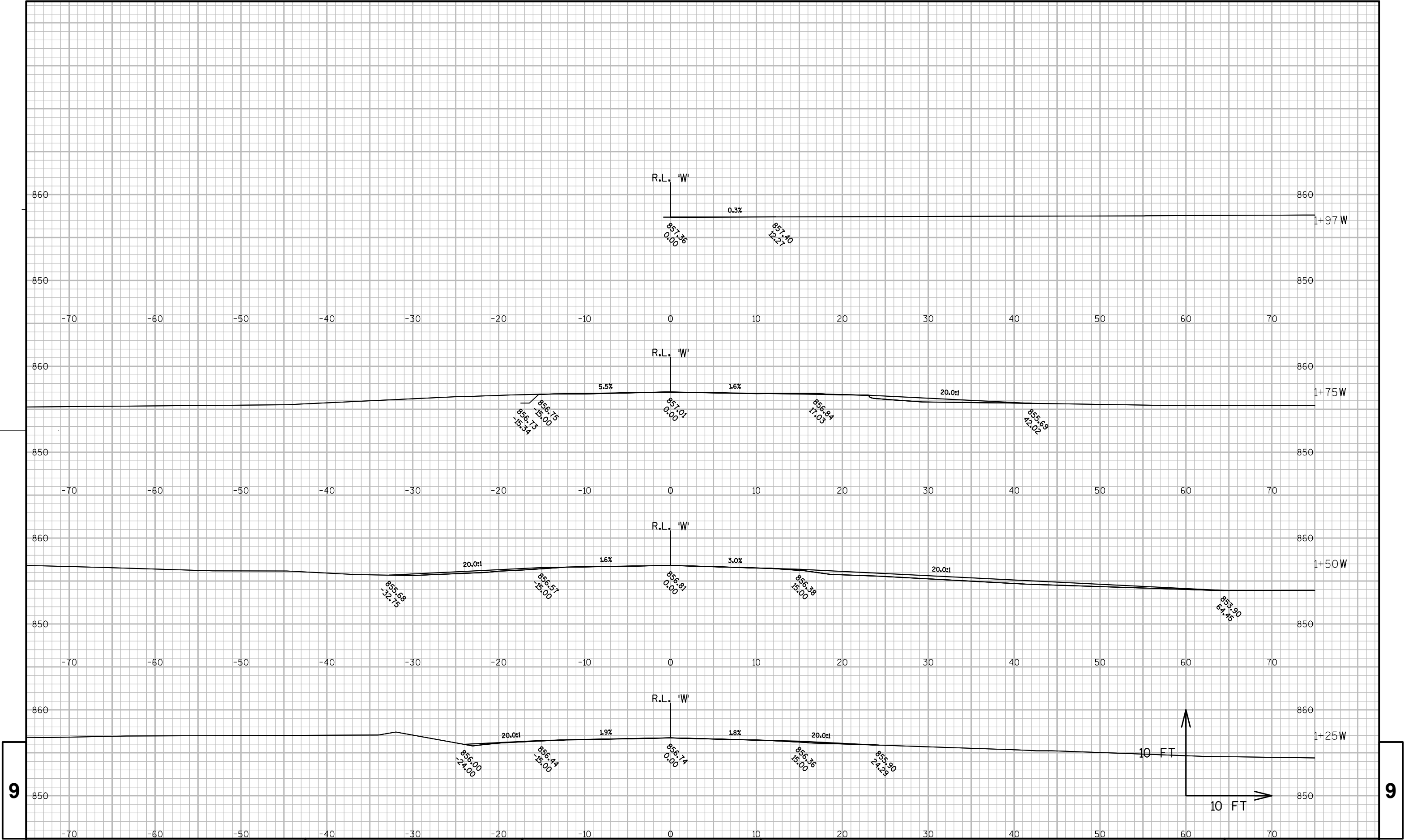
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PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDs SHEET 49





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PROJECT NO:1071-02-60

HWY: IH 90

COUNTY: MONROE

CROSS SECTIONS: CROSSOVER #07 - 'W' ALIGNMENT

SHEET

218

E

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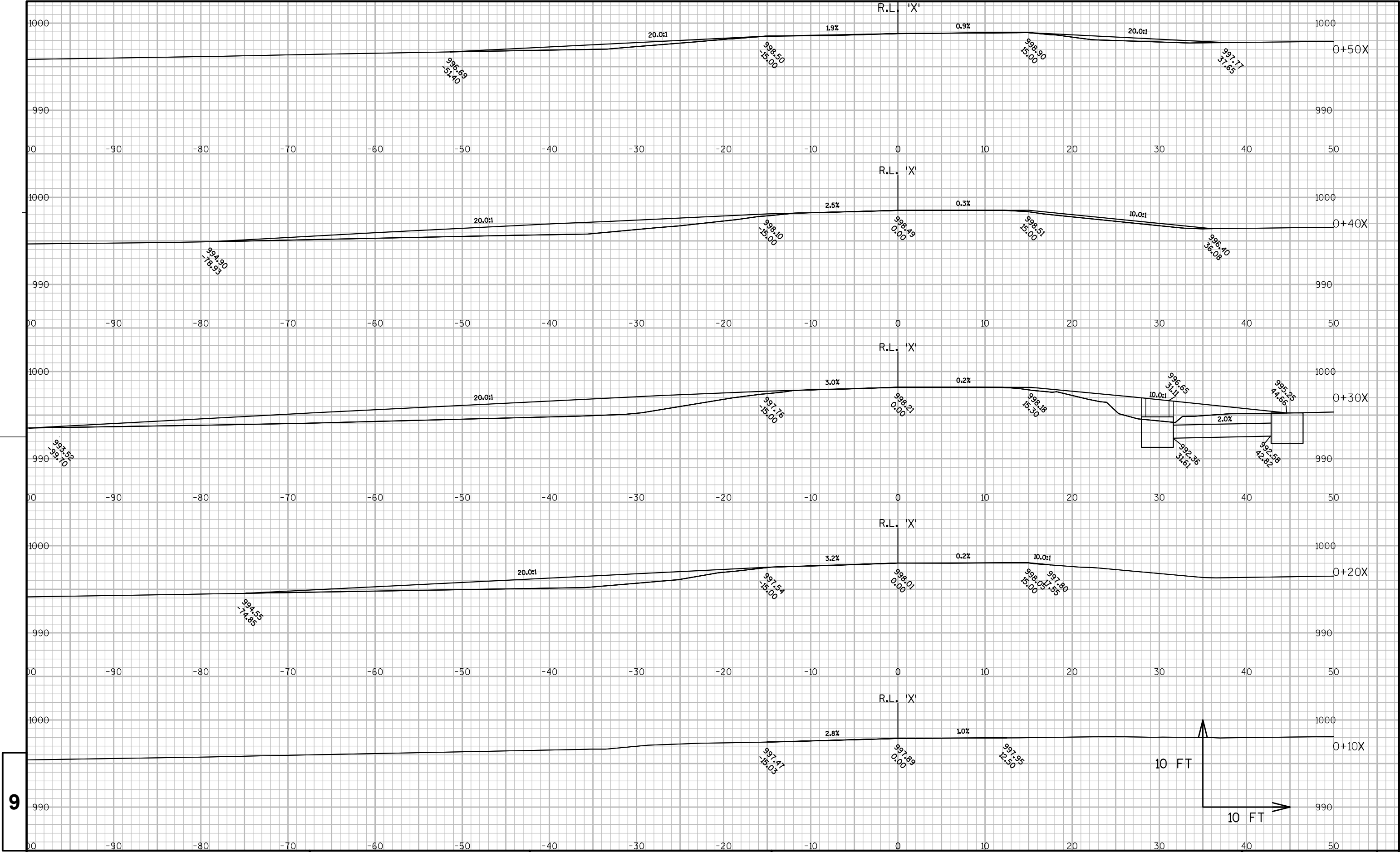
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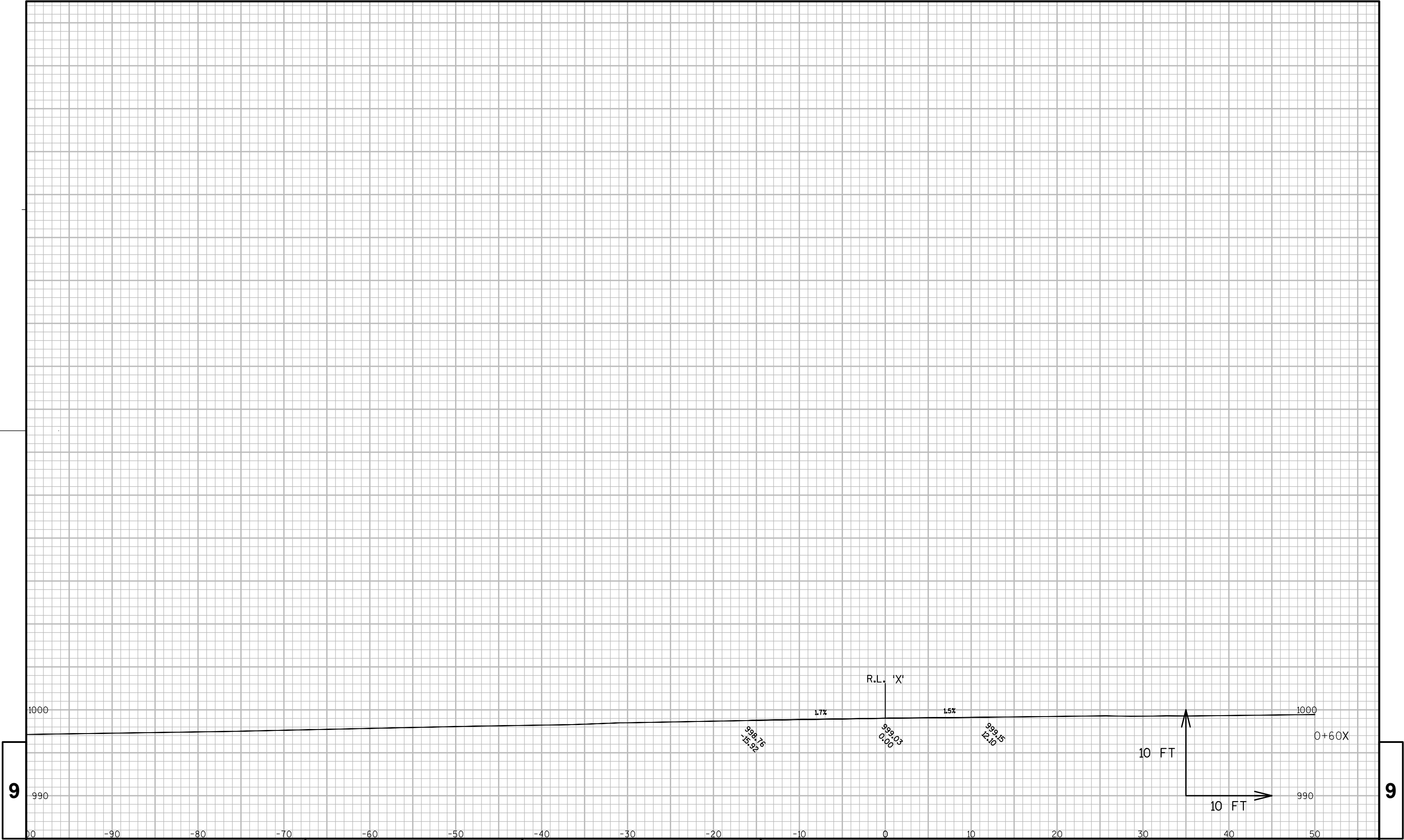
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WISDOT/CADDs SHEET 49



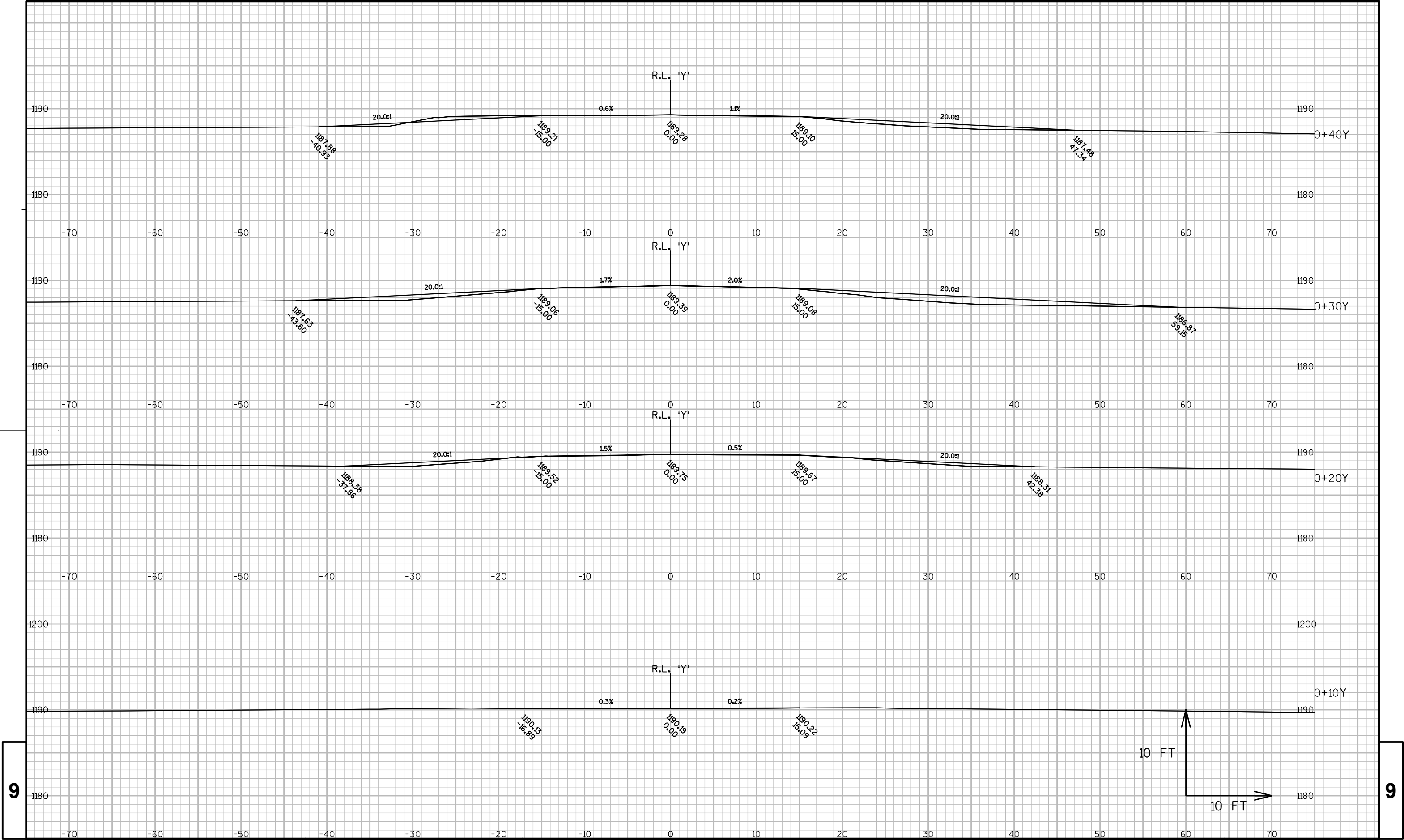
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PROJECT NO:1071-02-60

HWY: IH 90

COUNTY: MONROE

CROSS SECTIONS: CROSSOVER #09 - 'Y' ALIGNMENT

SHEET

221

E

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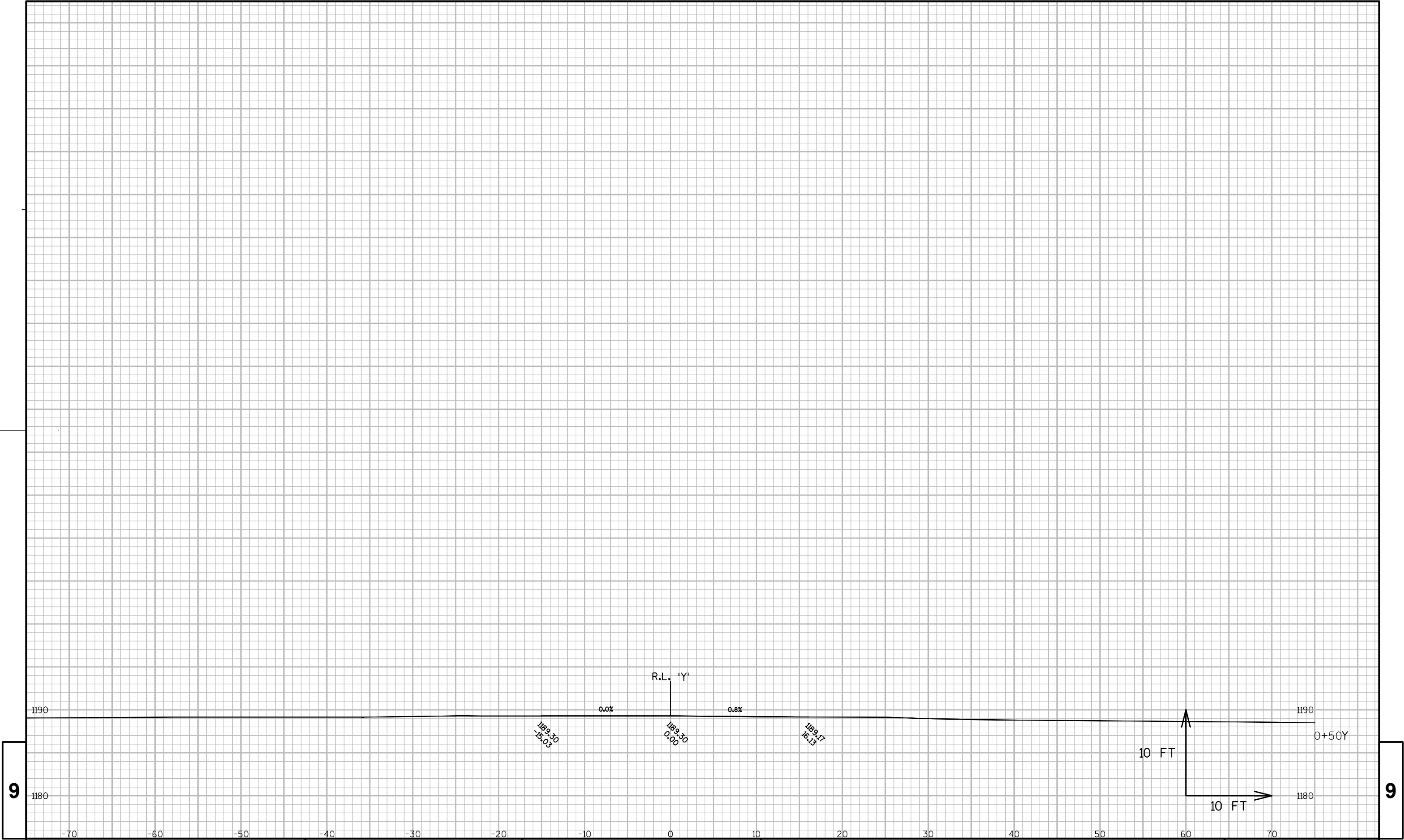
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PLOT NAME :

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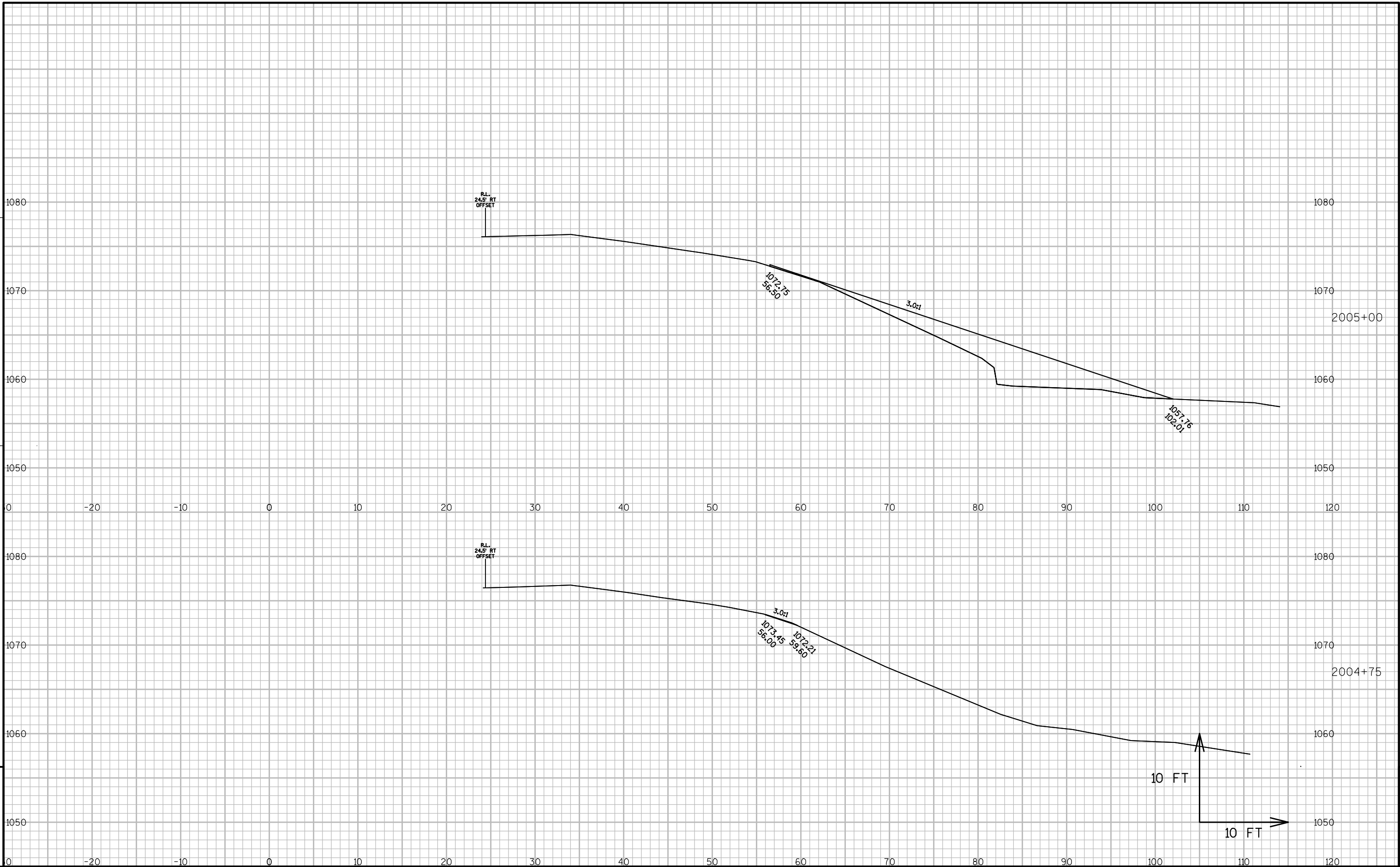
WISDOT/CADDs SHEET 49



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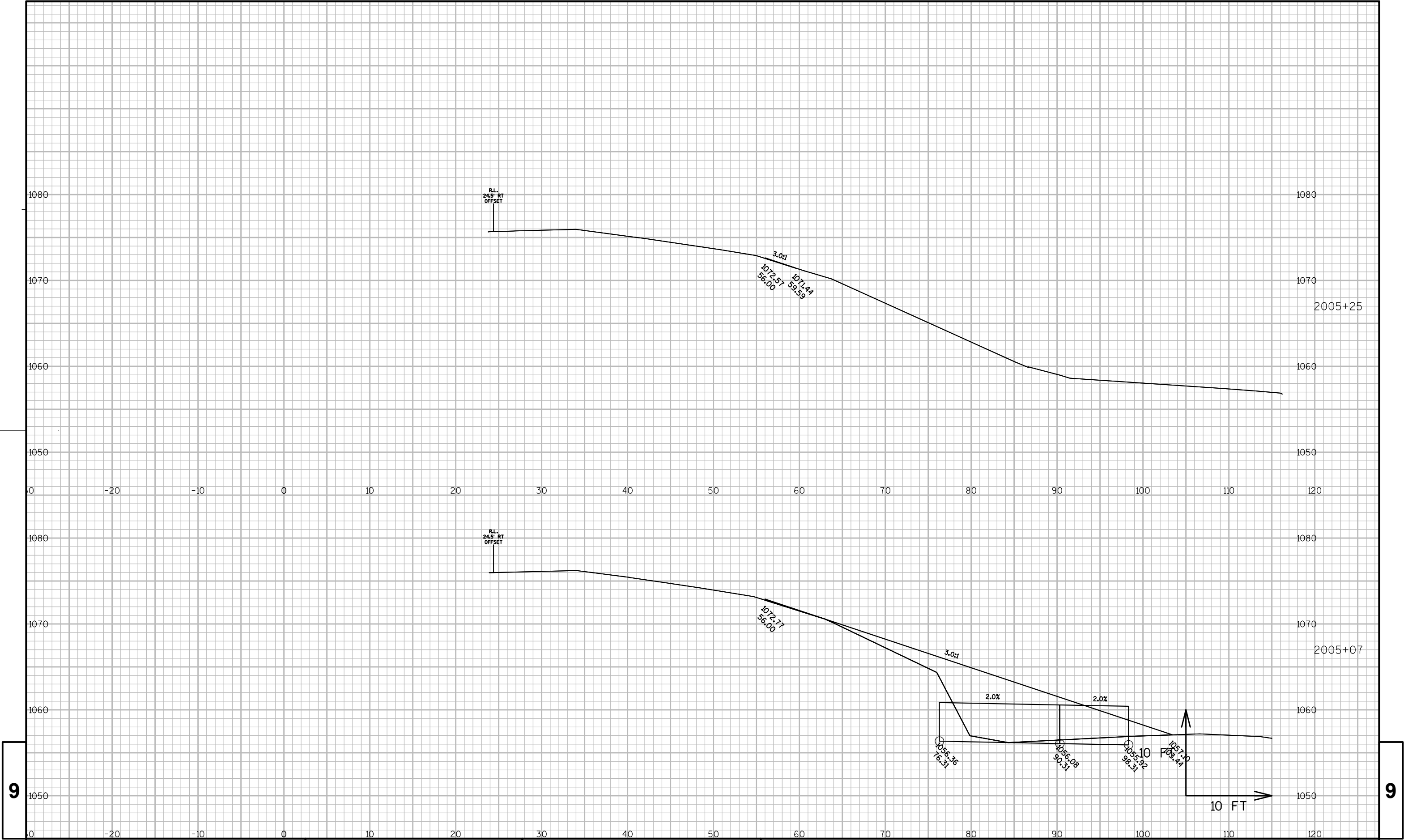
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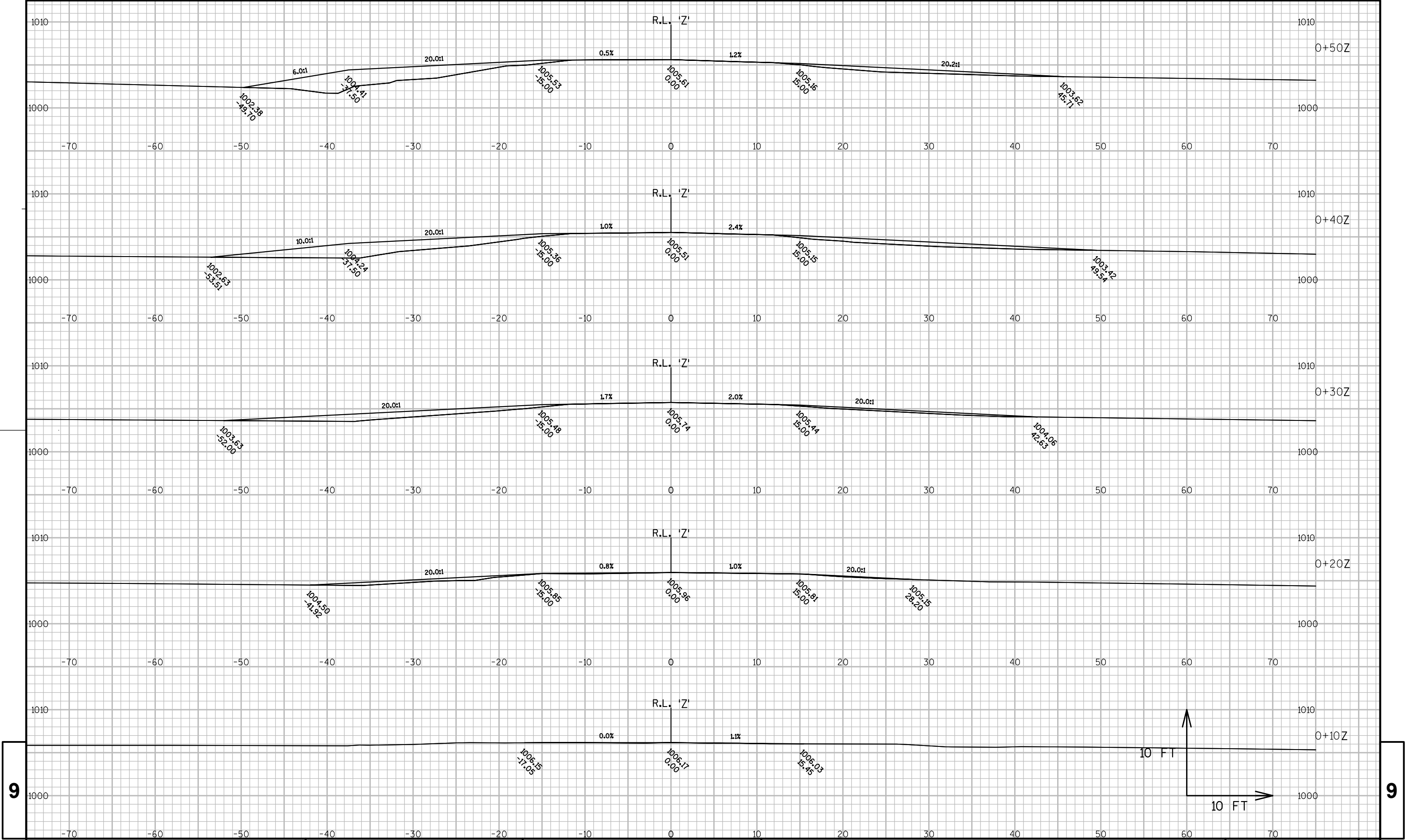
PROJECT NO:1071-02-60	HWY: IH 90	COUNTY: MONROE	CROSS SECTIONS: CROSSOVER #09 - 'Y' ALIGNMENT	SHEET 222	E
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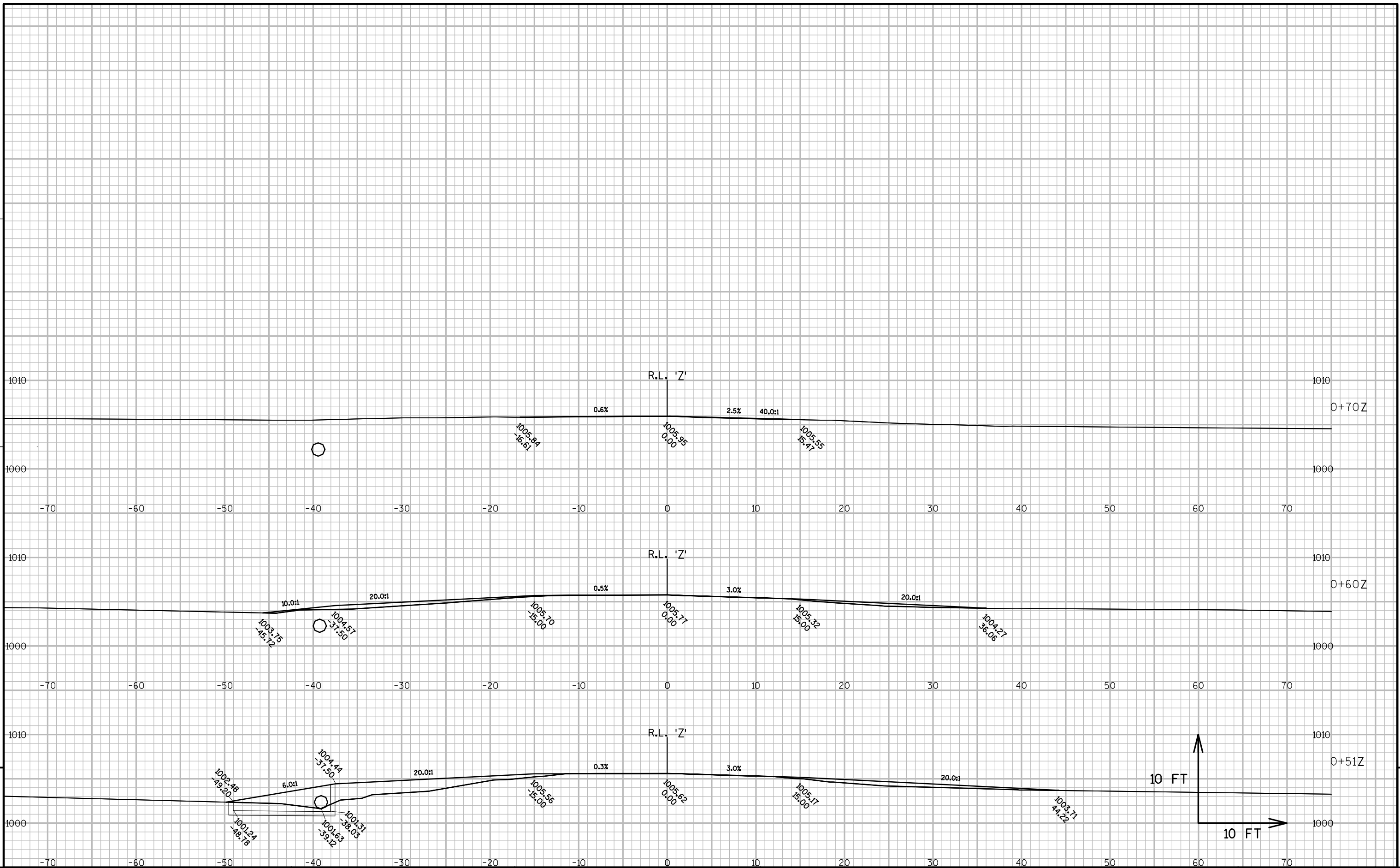


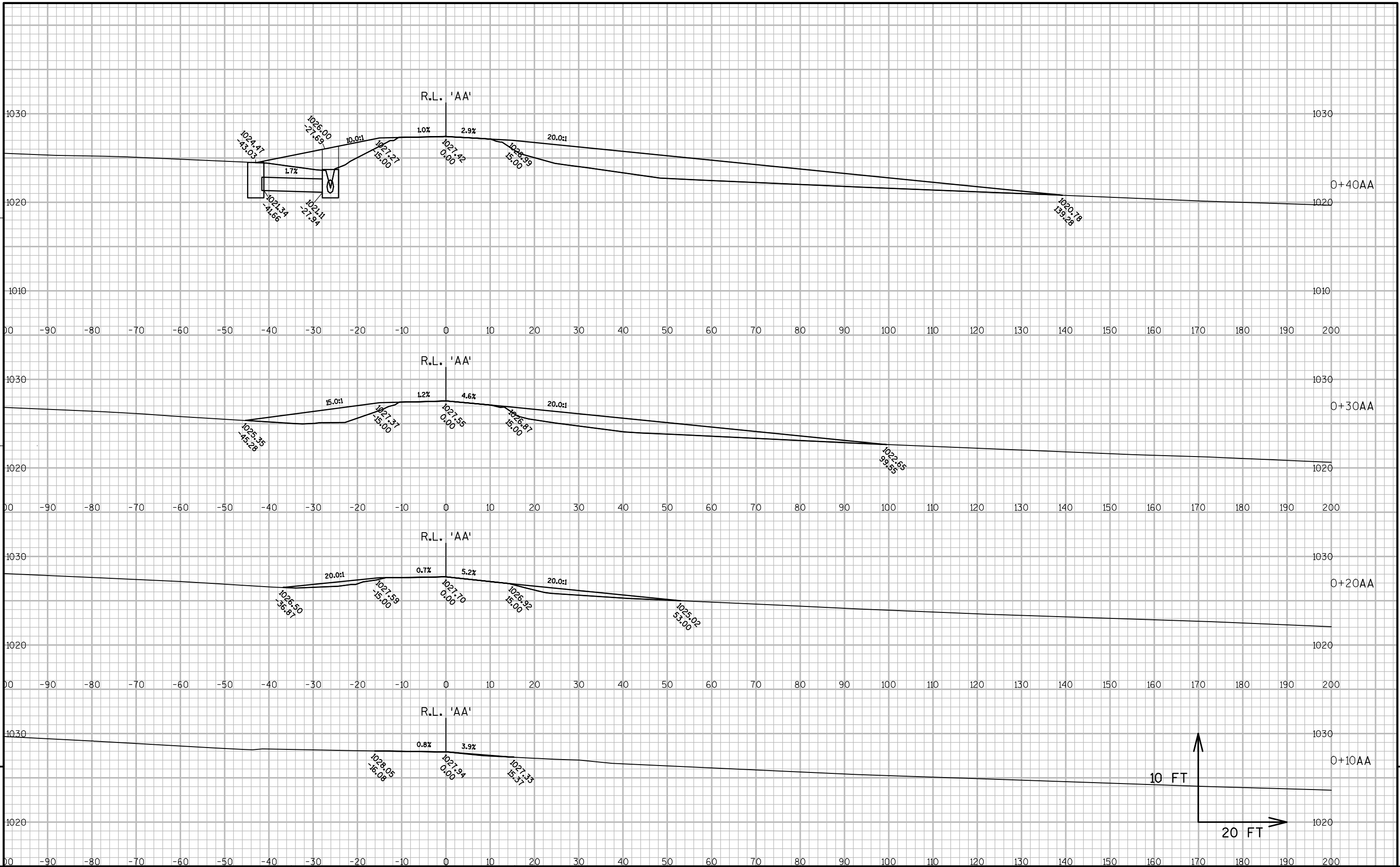
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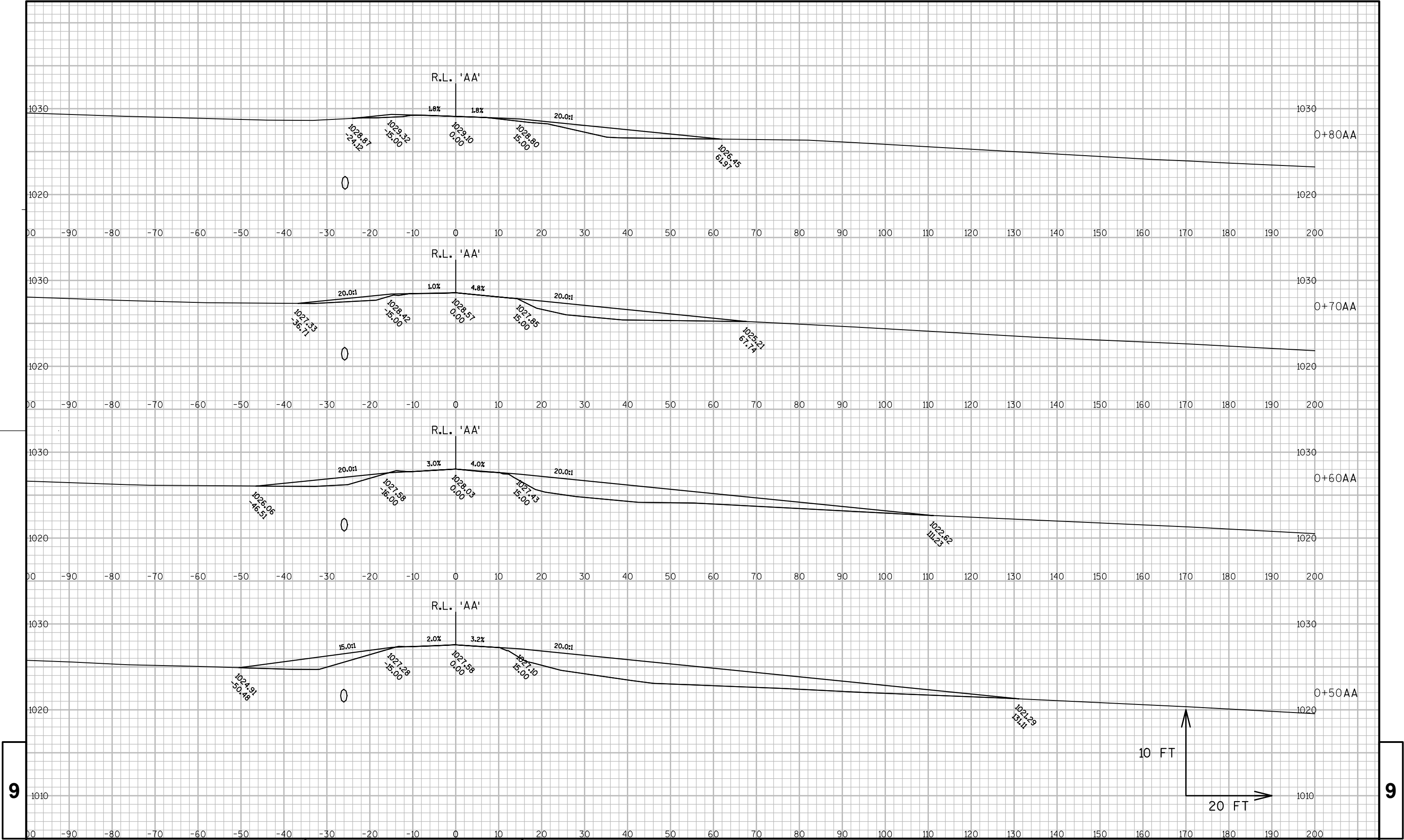
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PROJECT NO:1071-02-60

HWY: IH 90

COUNTY: MONROE

CROSS SECTIONS: CROSSOVER #11 - 'AA' ALIGNMENT

SHEET

228

E

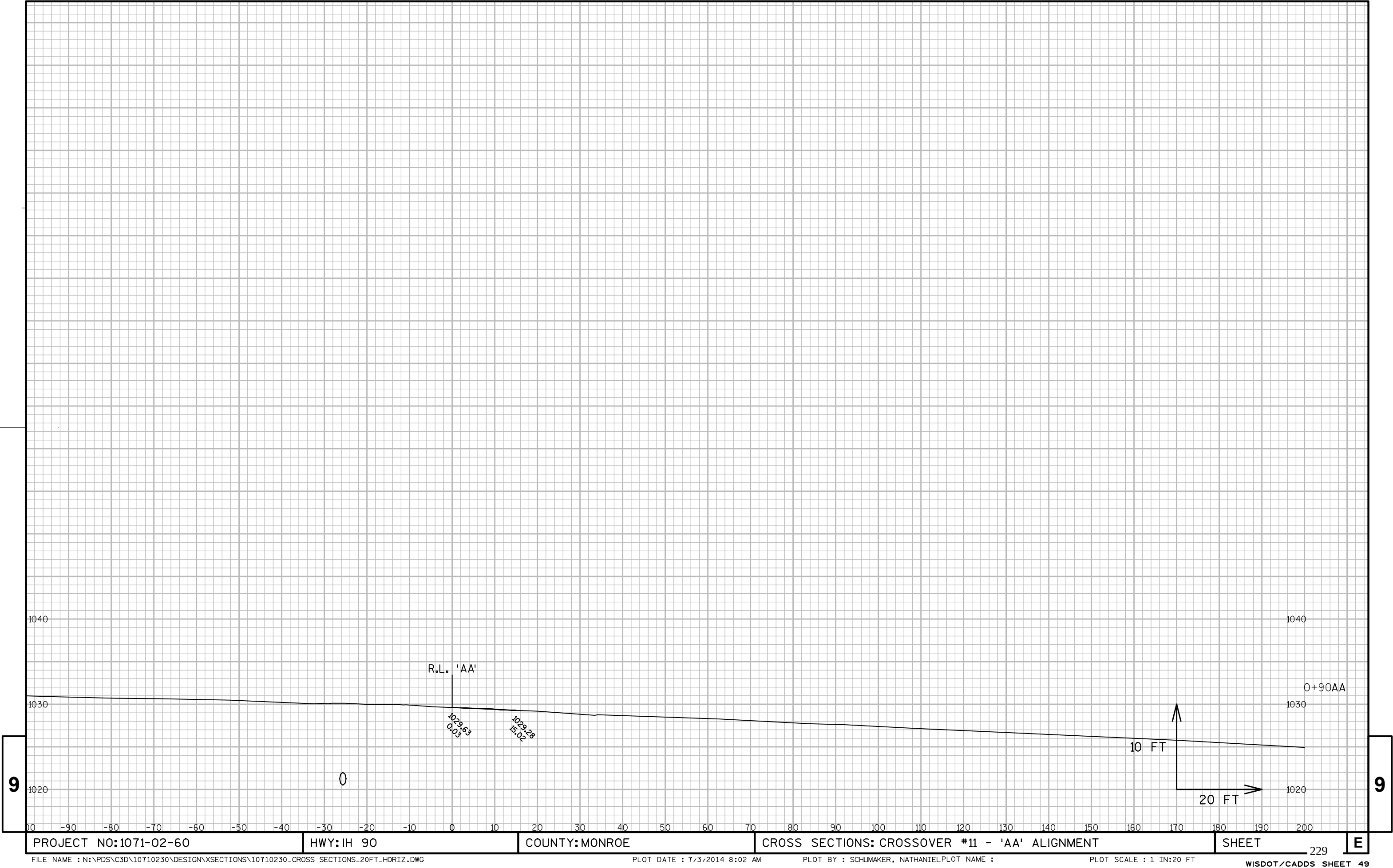
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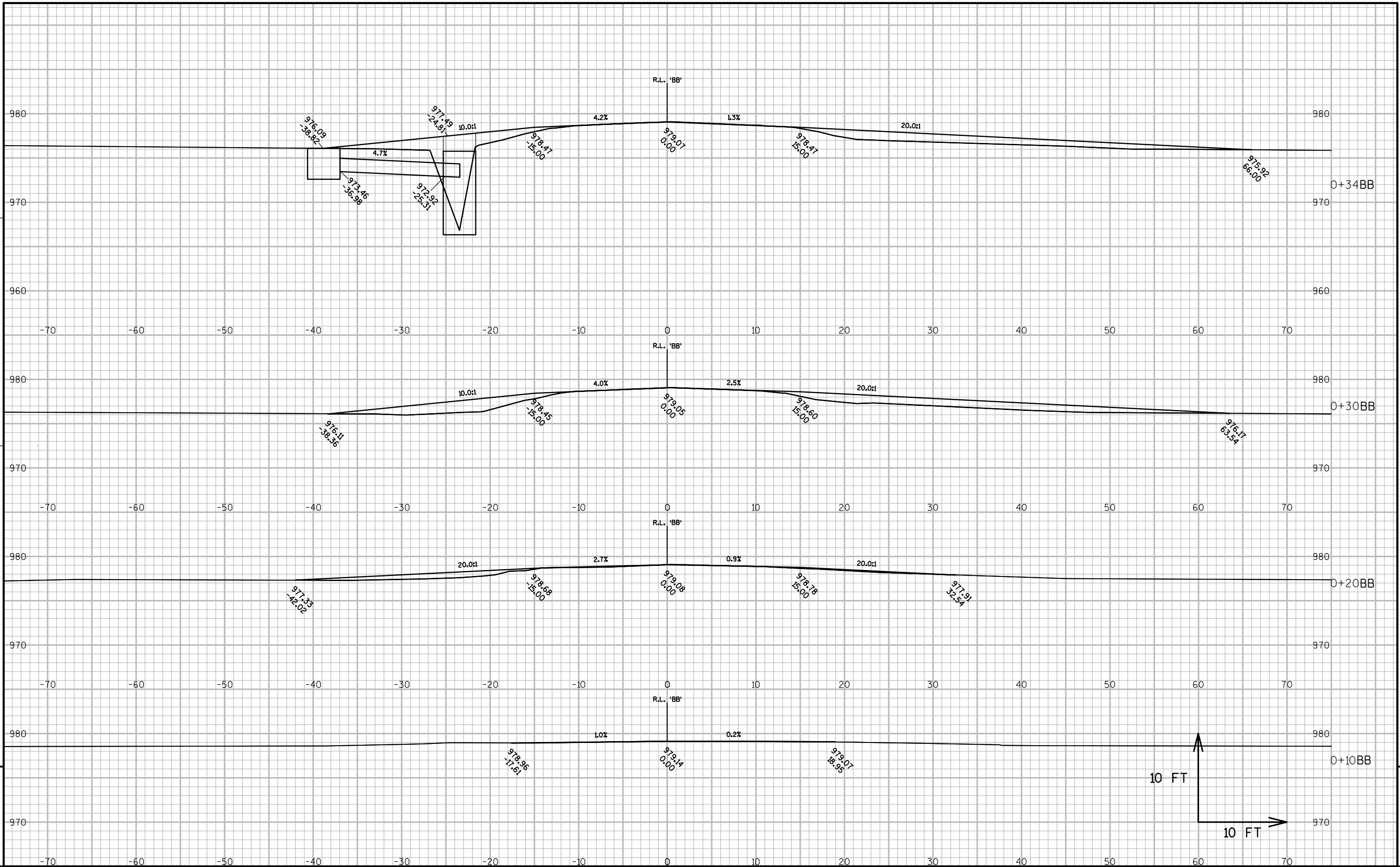
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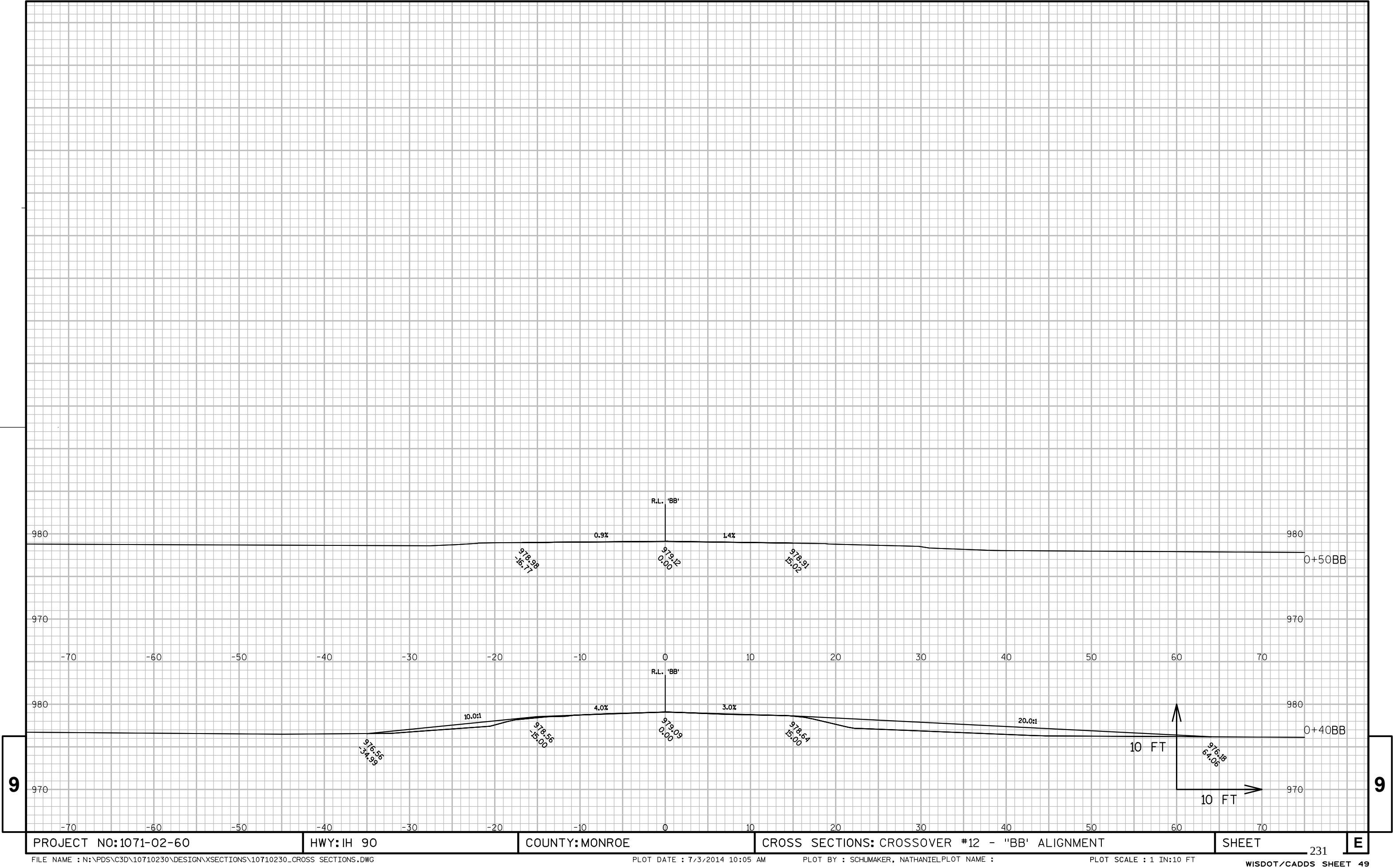
PLOT BY : SCHUMAKER, NATHANIEL

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDs SHEET 49

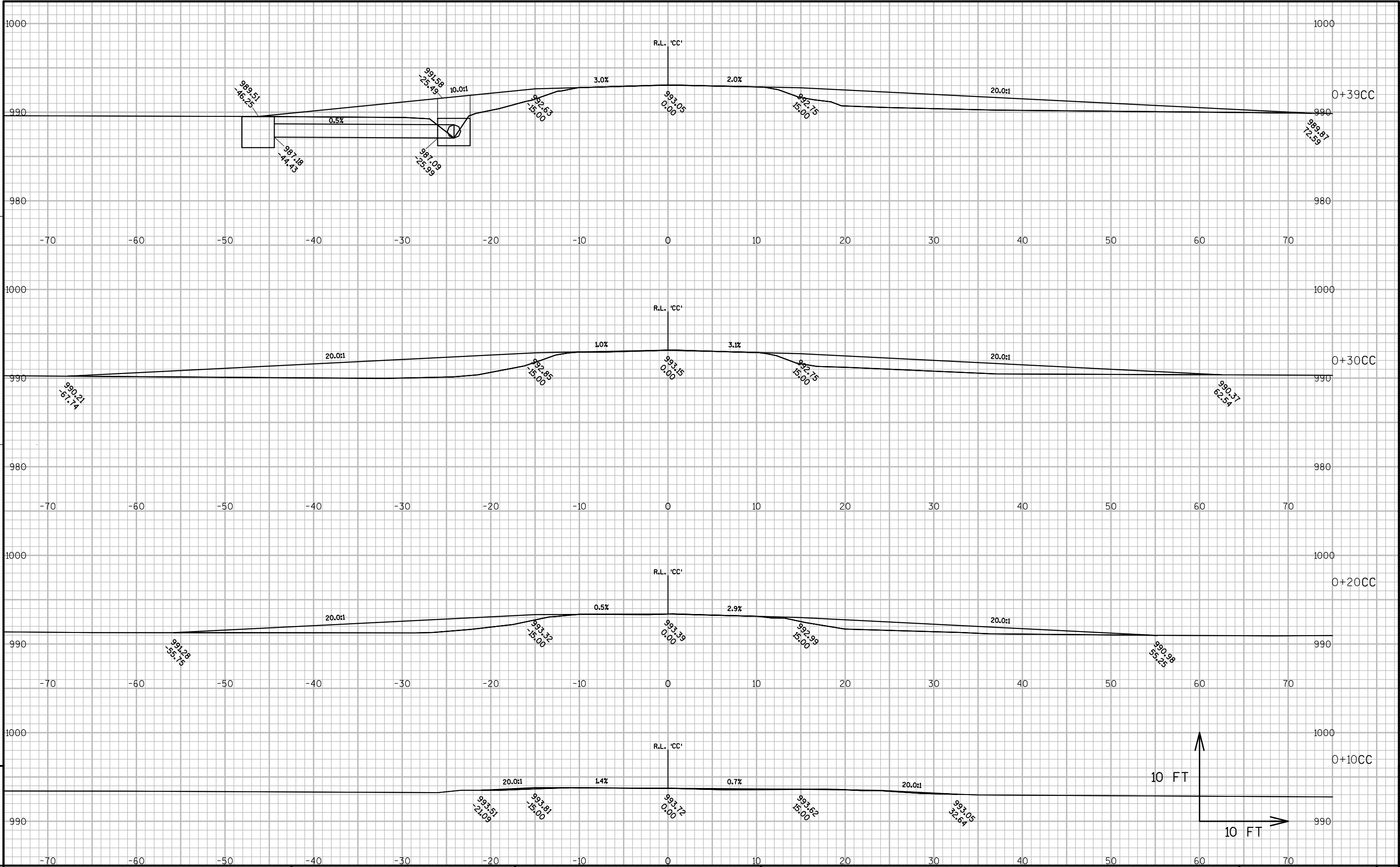


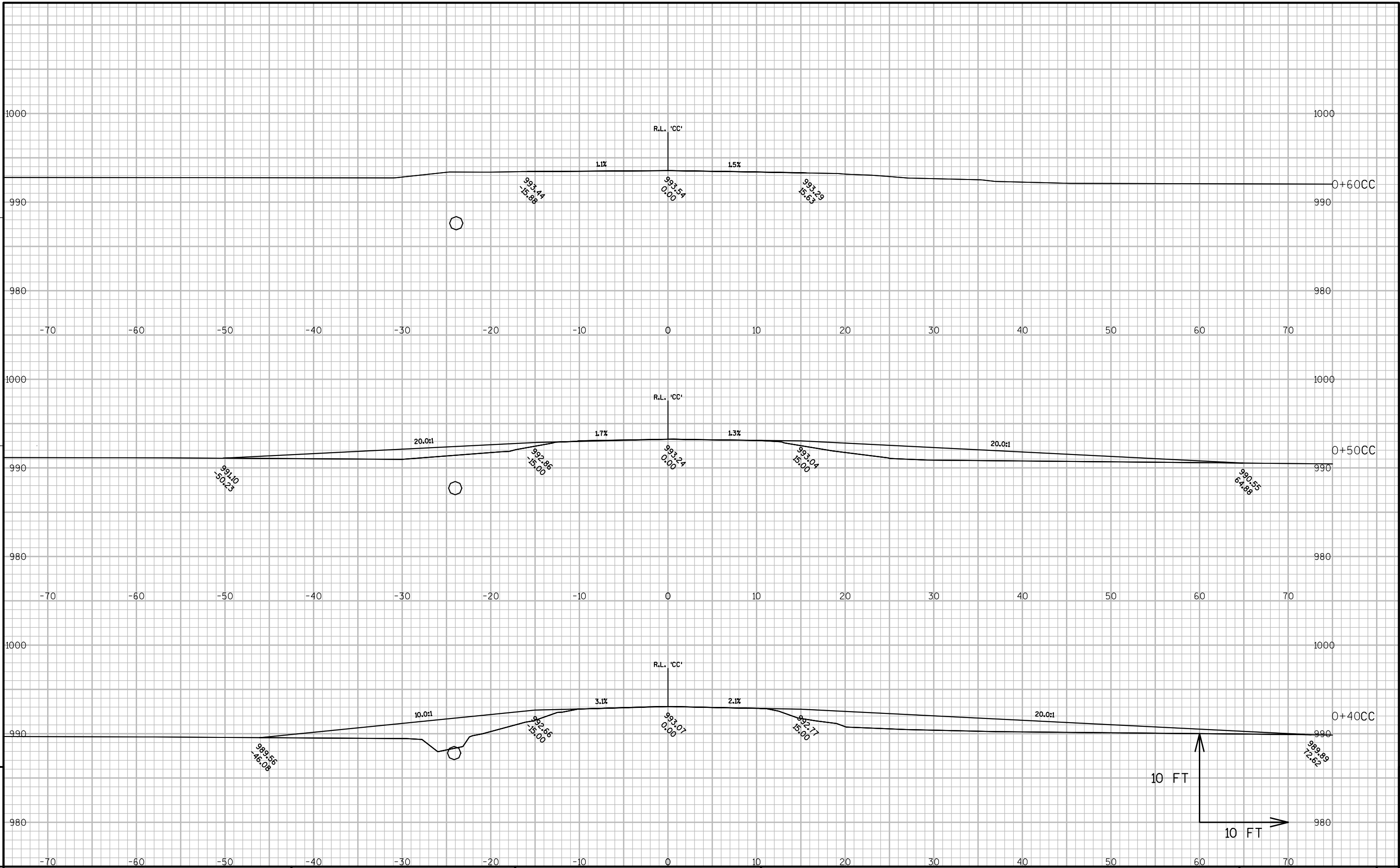




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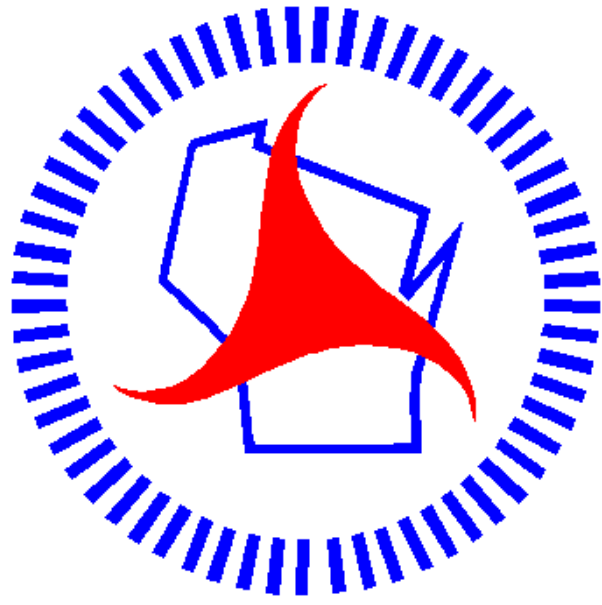
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