

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	1
		ILLINOIS	CONTRACT NO. 70995	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-9

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

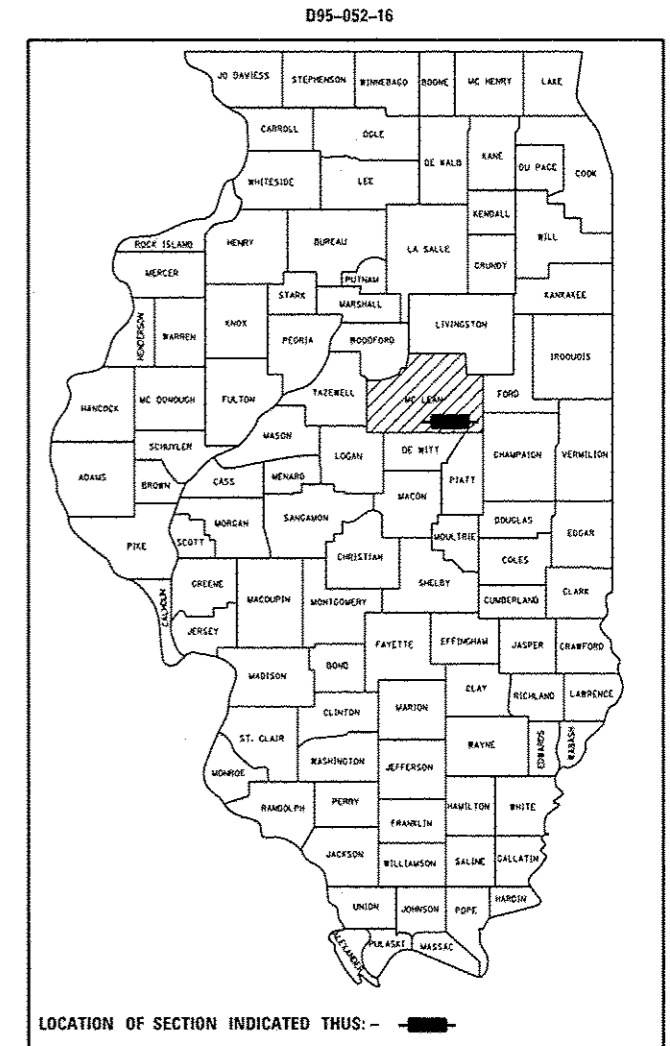
FAP ROUTE 709 (US 136)
SECTION 103RS-2
PROJECT ACF-0709(03D)
RESURFACING (3P)
MCLEAN COUNTY

C-95-052-16

US 150 TO IL 54

PROJECT ENDS

STATION 1159 + 89

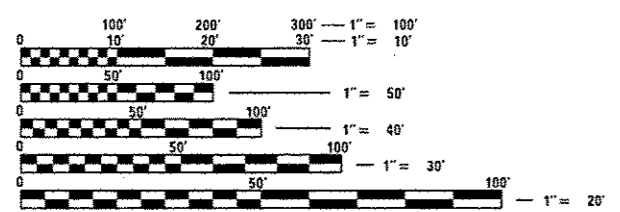


STRUCTURES
SN 057-0098:
REPLACE WEARING SURFACE
SN 057-0218:
OMISSION FROM RESURFACING
SN 057-8043
2 1/4" RESURFACING
SN 057-8044
RIPRAP AT U.S. END
2 1/4" RESURFACING
SN 057-8045
2 1/4" RESURFACING

DESIGN DESIGNATION
MINOR ARTERIAL

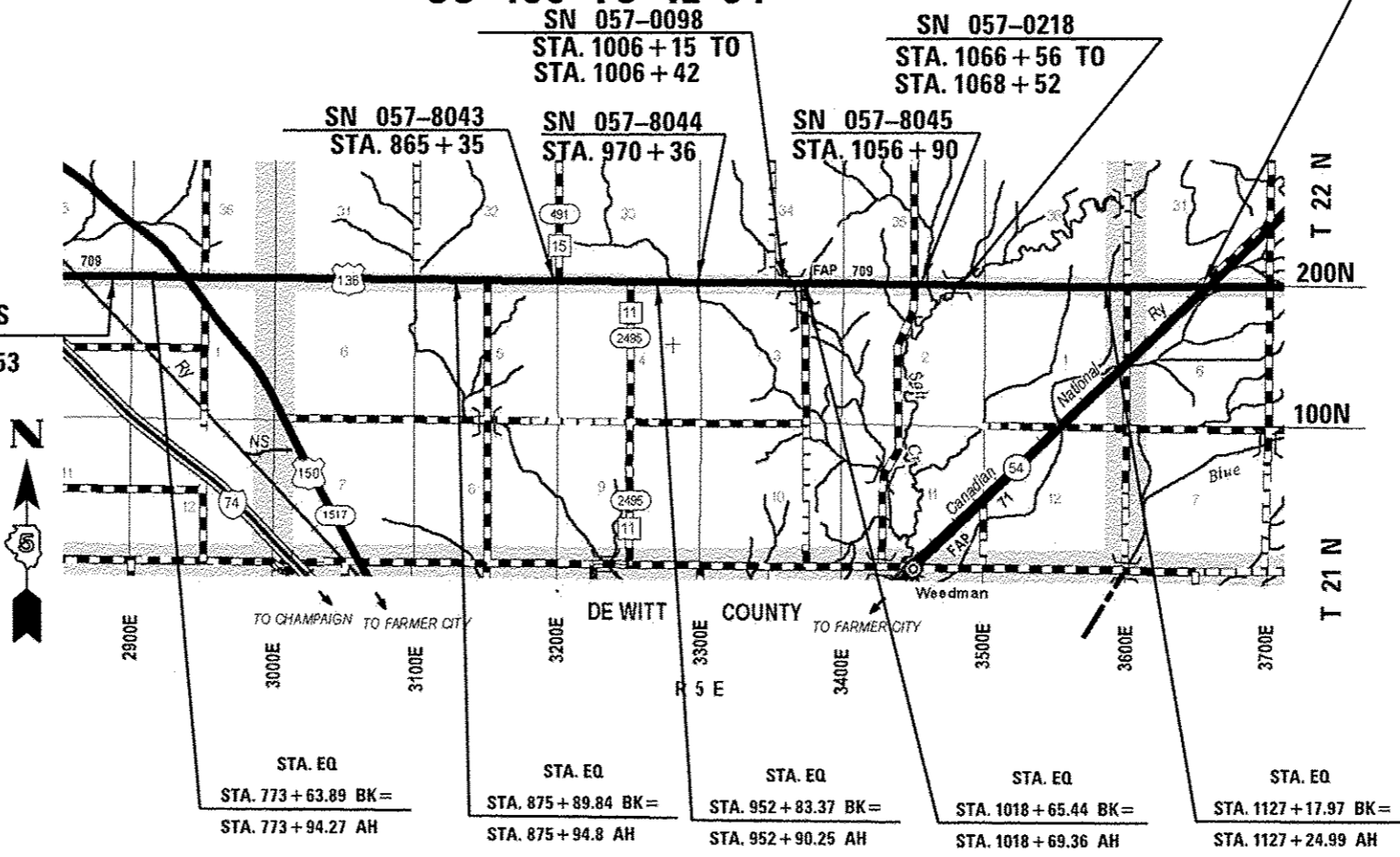
CURRENT ADT: 1,250 (2016)

PROJECT BEGINS
STATION 772 + 53



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811
EMPIRE & WEST TOWNSHIPS



GROSS LENGTH = 38,682.97 FT. = 7.326 MILE

NET LENGTH = 38,459.97 FT. = 7.284 MILE



PROJECT ENGINEER JASON STULTS 217-466-7364
PROJECT MANAGER MICHAEL LEROY 217-466-7228
CONTRACT NO. 70995

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED DECEMBER 8, 2016
Kenneth A. Barnatt
REGION ENGINEER
Jan 27 2017
Katherine M. Addis
ENGINEER OF DESIGN AND ENVIRONMENT
Jan 27 2017
Michelle A. ...
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

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INDEX OF SHEETS

SHEET NO	DESCRIPTION
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55	DETAIL - SURVEY MONUMENT COVER ASSEMBLY

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
406201-01	MAILBOX TURNOUT
482011-03	HMA SHLD. STRIP/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-11	STEEL PLATE BEAM GUARDRAIL
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701316-11	LANE CLOSURE 2L, 2W, BRIDGE REPAIR, FOR SPEEDS 45 MPH
701901-06	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
725001-01	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

FILE NAME =	USER NAME = LEROYMA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
per\ill084EBID\INTEG.illinois.gov\PIDDT\No	Documents\DOT Offices\District 5\Projects\DS7	DRAWING>Data\Beign\DS70995-ahf-gennote.d	REVISED -			709	103RS-2	MCLEAN	55	2
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 70995		ILLINOIS FED. AID PROJECT		
PLOT DATE = 12/9/2016	DATE -	REVISED -								

REV

SUMMARY OF QUANTITIES

LOCATION:

FAP 709 (IL 136)
 MCLEAN
 STA. 772+53
 TO
 STA. 1159+89
 RURAL
 TWO LANE
 80% FEDERAL
 20% STATE
 0005

CONSTRUCTION CODE:

40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	834.0	834.0
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	156.0	156.0
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	4,059.0	4,059.0
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SOYD	108,269.0	108,269.0
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	3,498.0	3,498.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	430.0	430.0
54214731	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 36"	EACH	1.0	1.0
54248510	CONCRETE COLLAR	CU YD	0.8	0.8
542A5491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	4.0	4.0
58100200	WATERPROOFING MEMBRANE SYSTEM	SO YD	138.0	138.0
60622800	CONCRETE MEDIAN, TYPE SM-6.12	SOFT	959.0	959.0
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1,462.5	1,462.5
63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	112.5	112.5
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4.0	4.0

14
 • SPECIALTY ITEMS

FILE NAME *	USER NAME * LERQYMA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL004EBID\TEG\illinois.gov\PI001\0	Documents\JCDT Offices\District 5\Projects\057	DRAWN Data\Design\0570995-eh-500.dgn	REVISED -		SCALE:	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.	709	103RS-2	MCLEAN	55	5
	PLOT SCALE * 10.0000 ' / in.	CHECKED -	REVISED -		CONTRACT NO. 70995								
	PLOT DATE * 12/8/2016	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

SUMMARY OF QUANTITIES

LOCATION:

FAP 709 (IL 136)
 MCLEAN
 STA. 772+53
 TO
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 20% STATE
 0005

CONSTRUCTION CODE:

• 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4.0	4.0
• 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	22.0	22.0
63200310	GUARDRAIL REMOVAL	FOOT	2,704.0	2,704.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6.0	6.0
67100100	MOBILIZATION	LSUM	1.0	1.0
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1.0	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1.0	1.0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1.0	1.0
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	14.0	14.0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2.0	2.0
70106700	TEMPORARY RUMBLE STRIPS	EACH	6.0	6.0
70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	280.0	280.0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	12,276.0	12,276.0
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQFT	1,503.0	1,503.0

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• SPECIALTY ITEMS

FILE NAME *	USER NAME = LEROYMA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 709	SECTION 103RS-2	COUNTY MCLEAN	TOTAL SHEETS 55	SHEET NO. 6
per\\IL084EBID\TEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\057	Documents\DOT Offices\District 5\Projects\057	DESIGNED -	REVISED -							
		CHECKED -	REVISED -							
		DATE -	REVISED -							
					SCALE:	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
									CONTRACT NO. 70995	

SUMMARY OF QUANTITIES

LOCATION:

FAP 709 (IL 136)
 MCLEAN
 STA. 772+53
 TO
 STA. 1159+89
 RURAL
 TWO LANE
 80% FEDERAL
 20% STATE
 0005

CONSTRUCTION CODE:

70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SOFT	62.0	62.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	91,569.0	91,569.0
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	731.0	731.0
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	405.0	405.0
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	160.0	160.0
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	22.0	22.0
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SOFT	62.0	62.0
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	731.0	731.0
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	405.0	405.0
78000650	THERMOPLASTIC PAVEMENT MARKING, LINE 24"	FOOT	160.0	160.0
78001110	PAINT PAVEMENT MARKING, LINE 4"	FOOT	91,569.0	91,569.0
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	495.0	495.0
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	47.0	47.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	372.0	372.0

• SPECIALTY ITEMS

FILE NAME *	USER NAME = LERQYMA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 709	SECTION 103RS-2	COUNTY MCLEAN	TOTAL SHEETS 55	SHEET NO. 7
pc\1\1084EBIDINTEG\Illinois.gov\PI001\Documents\1007 Office\District 5\Projects\057	ORAWND\Design\0578995-ahf-500.dgn	CHECKED -	REVISED -							
PLOT SCALE = 10.0000 / in.		DATE -	REVISED -		SCALE:	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 70995	

SUMMARY OF QUANTITIES

LOCATION:

FAP 709 (IL 136)
 MCLEAN
 STA. 772+53
 TO
 STA. 1159+89
 RURAL
 TWO LANE
 80% FEDERAL
 20% STATE
 0005

CONSTRUCTION CODE:

PAY ITEM CODE	PAY ITEM	UNIT	TOTAL	QTY
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	1,853.0	1,853.0
X4403300	CONCRETE MEDIAN REMOVAL	SQ FT	959.0	959.0
X4406085	PARTIAL DEPTH REMOVAL, TYPE I, 8.5"	SQYD	252.0	252.0
X4406285	PARTIAL DEPTH REMOVAL, TYPE II, 8.5"	SQYD	157.0	157.0
X4406485	PARTIAL DEPTH REMOVAL, TYPE III, 8.5"	SQYD	56.0	56.0
X4406685	PARTIAL DEPTH REMOVAL, TYPE IV, 8.5"	SQYD	600.0	600.0
X4421000	PARTIAL DEPTH PATCHING	TON	129.0	129.0
X5015225	PIPE CULVERT REMOVAL (SPECIAL)	FOOT	8.0	8.0
X7200201	WIDTH RESTRICTION SIGNING	LSUM	1.0	1.0
X7830060	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SOFT	62.0	62.0
X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	731.0	731.0
X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	405.0	405.0
X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	135.0	135.0
<i>X0100010</i>	SHOULDER EXCAVATION	CU YD	44.0	44.0

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• SPECIALTY ITEMS

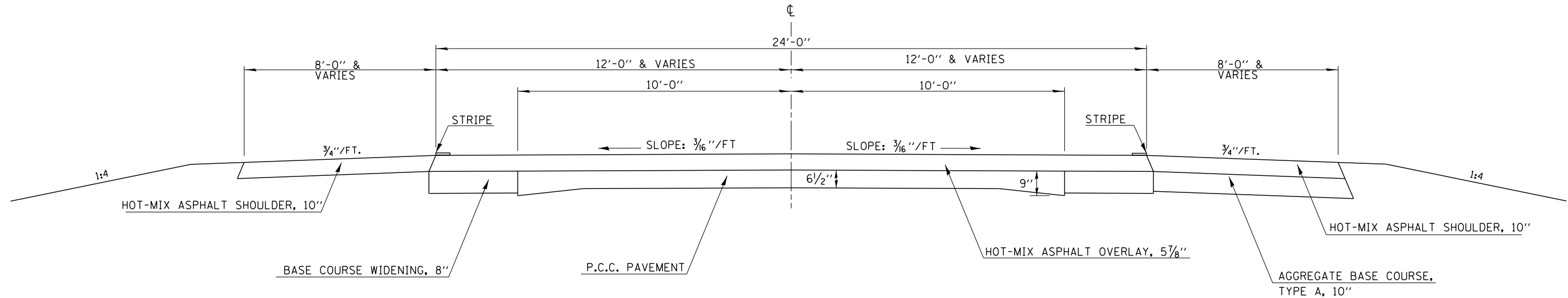
FILE NAME *	USER NAME = LEROYMA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -				CONTRACT NO. 70995		ILLINOIS FED. AID PROJECT			
PLOT DATE = 12/8/2016	DATE -	REVISED -				SCALE:	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.		

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EXISTING TYPICAL CROSS SECTION

F.A.P. 315 (U.S. 136)

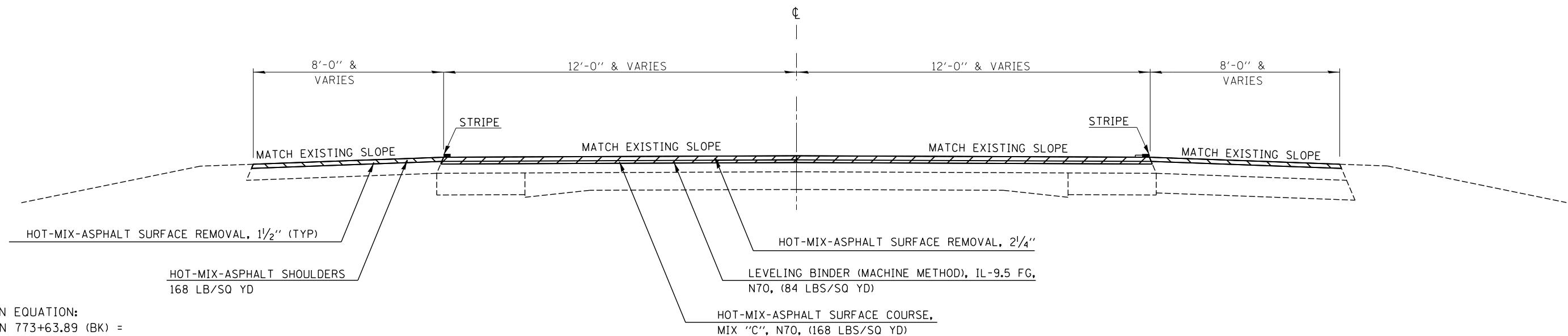
STATION TO STATION
772+53 778+74



PROPOSED TYPICAL CROSS SECTION ①

F.A.P. 315 (U.S. 136)

STATION TO STATION
772+53 778+74

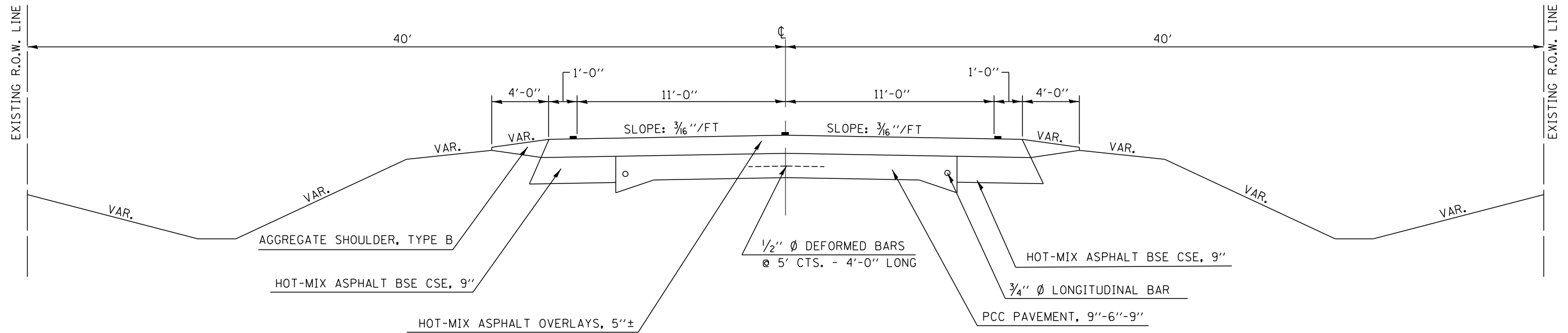


STATION EQUATION:
STATION 773+63.89 (BK) =
STATION 773+94.27 (AH)

FILE NAME =	USER NAME = LEROYMA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING & PROPOSED TYPICAL CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		p:\11084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0579\Drawings\Design\0579995-shr-typical.dwg	DRAWN			REVISED	709	103RS-2	MCLEAN	55
PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 70995				
PLOT DATE = 12/8/2016		DATE -	REVISED -	ILLINOIS FED. AID PROJECT						

EXISTING TYPICAL SECTION FAP 709 (US 136)

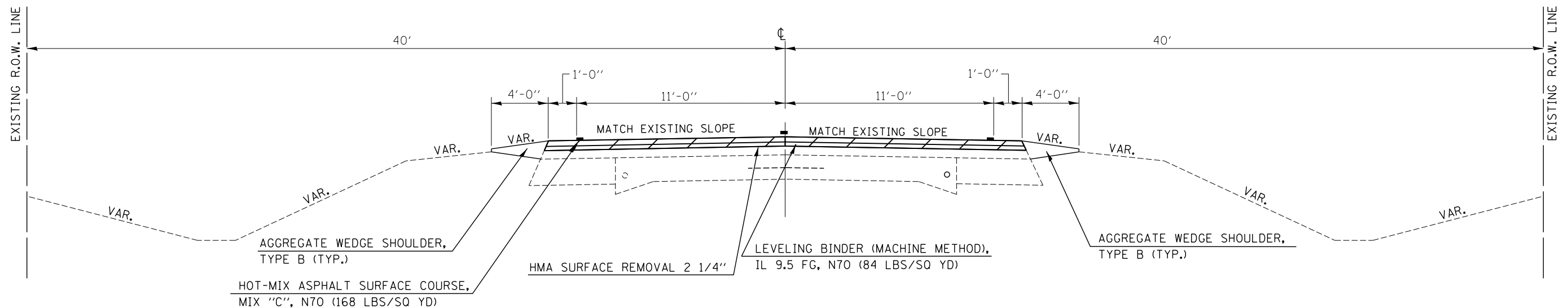
STATION TO STATION
780+56 1159+89



PROPOSED TYPICAL SECTION ② FAP 709 (US 136)

STATION TO STATION
780+56 1159+89

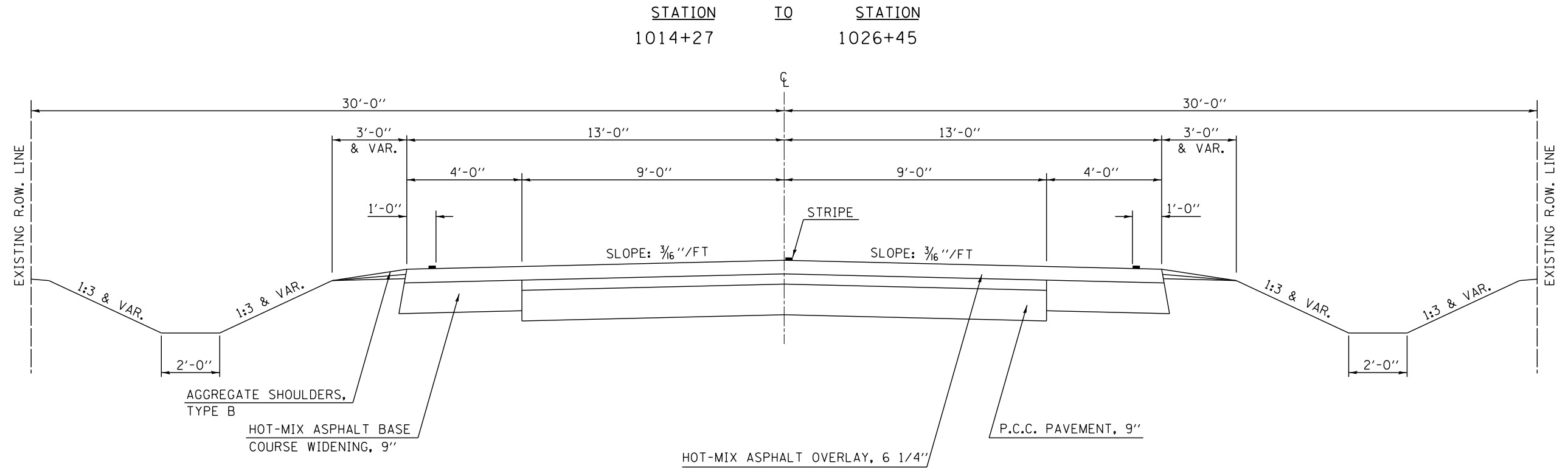
OMISSION FOR STRUCTURE:
057-0218 STA. 1066+55 TO STA. 1068+52



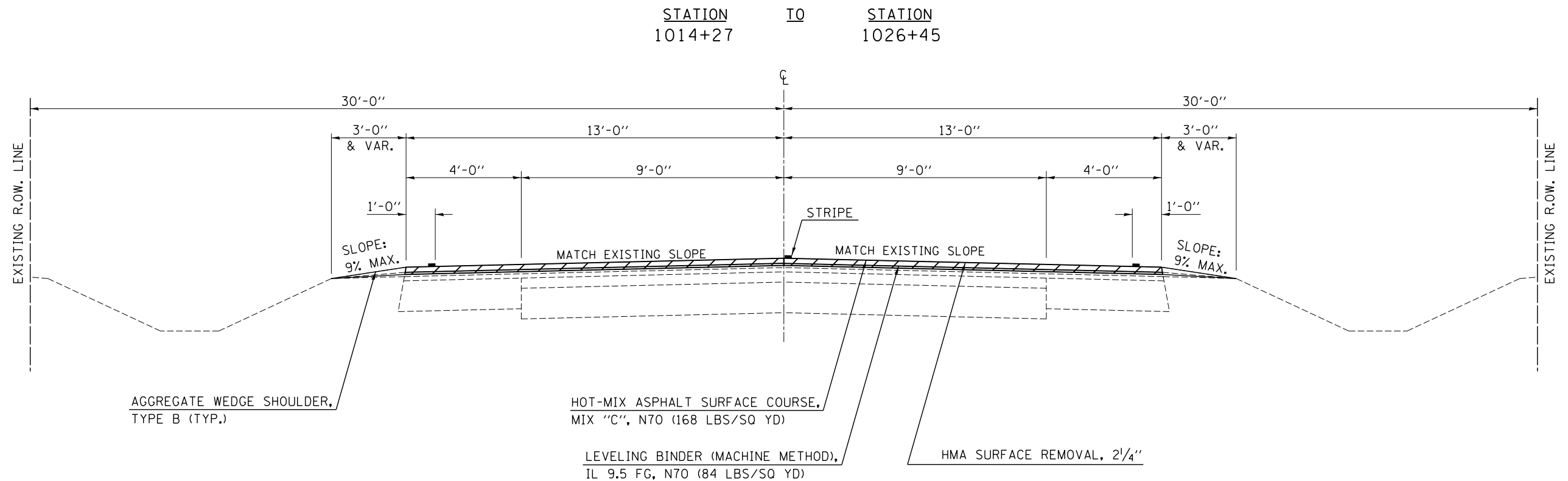
STATION EQUATION:	STATION EQUATION:	STATION EQUATION:	STATION EQUATION:
STATION 875+89.84 (BK) =	STATION 952+83.37 (BK) =	STATION 1018+65.44 (BK) =	STATION 1127+17.97 (BK) =
STATION 875+94.84 (AH)	STATION 952+90.24 (AH)	STATION 1018+69.36 (AH)	STATION 1127+24.99 (AH)

FILE NAME =	USER NAME = LEROYMA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING & PROPOSED TYPICAL CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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PLOT SCALE = 40.0000' / in.						CONTRACT NO. 70995						
PLOT DATE = 12/8/2016						ILLINOIS FED. AID PROJECT						

EXISTING TYPICAL CROSS SECTION (US 150)



PROPOSED TYPICAL SECTION FAS 1517 (US 150)



FILE NAME =	USER NAME = LEROYMA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING & PROPOSED TYPICAL CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						709	103RS-2	MCLEAN	55	12	
						CONTRACT NO. 70995					
						ILLINOIS FED. AID PROJECT					
PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	
PLOT DATE = 12/8/2016		DATE -	REVISED -								

RESURFACING

			LENGTH	WIDTH	SQ YD	LEVELING BINDER (MACHINE METHOD) IL-9.5FG, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
						40600637 TONS	40603315 TONS	40600290 POUND	44000158 SQ YD
START	772+53.00	773+63.89	110.89	24.3	299.40	12.57	25.15	202.10	299.40
EQ. STA.	773+94.27	875+89.84	10,195.57	24.3	28,666.48	1203.99	2407.98	19349.87	28,666.48
EQ. STA.	875+94.84	952+83.37	7,688.53	24.3	20,759.03	871.88	1743.76	14012.35	20,759.03
EQ. STA.	952+90.24	1006+15.00	5,324.76	24.3	14,376.85	603.83	1207.66	9704.38	14,376.85
STRUCTURE NO 0098	1006+42.00	1018+65.44	1,223.44	24.3	3,303.29	138.74	277.48	2229.72	3,303.29
EQ. STA.	1018+69.36	1066+56.00	4,786.64	24.3	12,923.93	542.80	1085.61	8723.65	12,923.93
STRUCTURE NO 0218	1068+52.00	1127+17.97	5,865.97	24.3	15,838.12	665.20	1330.40	10690.73	15,838.12
EQ. STA.	1127+24.99	1159+89.00	3,264.01	24.3	8,812.83	370.14	740.28	3965.77	8,812.83
END IL 150	1014+27.00	1026+45.00	1,218.00	24.3	3,288.60	138.12	276.24	2219.81	3,288.60
					108,268.5	4,547.28 4,547.00	9,094.56 9,095.00	71,098.37 71,098.00	108,268.53 108,269.00

TEMPORARY RAMPS

(40600990)

	STATION	WIDTH	MILLED SURFACE LENGTH	LEVEL BINDER LENGTH	SQYD
START OF JOB	772+53.00	24.30	7.5	5	33.75
IL 150 NORTH	1014+27.00	26.00	7.5	5	36.11
IL 150 SOUTH	1026+45.00	26.00	7.5	5	36.11
STRUCTURE	1006+15.00	24.30	7.5	5	33.75
	1006+42.00	24.30	7.5	5	33.75
STRUCTURE	1066+56.00	24.30	7.5	5	33.75
	1068+52.00	24.30	7.5	5	33.75
END OF JOB	1159+89.00	24.30	7.5	5	33.75
TOTAL					274.72
USE					275.00

INCIDENTAL RESURFACING

ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS MEASURED USING CADD FLOOD					HMA SURFACE REMOVAL (SPECIAL) (X4400196)	INCIDENTAL HMA RESURFACING (40800050)	BITUMINOUS MARERIALS (TACK COAT) (40800029)
STATION	LT/RT	TYPE	SQ FT	WIDTH	SQ YD	TONS	POUND
786+78.00	LT	2950 E RD	1068.00	29.5	118.67	9.97	53.40
812+05.00	LT	PE	335.80	10	37.31	3.13	16.79
812+76.00	LT	MBTO	215.50	5	23.94	2.01	10.78
845+08.00	LT	PE/MBTO	634.90	10	70.54	5.93	31.75
865+75.00	LT	3100E RD	1229.10	34	136.57	11.47	61.46
892+37.00	RT	3150E RD	1043.30	31.5	115.92	9.74	52.17
918+99.00	LT	CH 15	2040.70	48	226.74	19.05	102.04
931+32.00	LT	FE	80.10	4	8.90	0.75	4.01
945+65.00	RT	3250E RD	755.00	18	83.89	7.05	37.75
998+67.00	LT	3350E RD	921.50	30	102.39	8.60	46.08
1011+88.00	RT	3375E RD	595.00	18	66.11	5.55	29.75
1051+75.00	LT	3450E RD	712.30	20	79.14	6.65	35.62
1051+75.00	RT	3450E RD	1026.90	28	114.10	9.58	51.35
1073+41.00	RT	PE/MBTO	478.40	10	53.16	4.47	23.92
1091+35.00	LT	PE	735.20	10	81.69	6.86	36.76
1097+35.00	RT	MBTO	225.20	7	25.02	2.10	11.26
1097+52.00	LT	PE	285.80	10	31.76	2.67	14.29
1129+26.00	LT	PE	257.70	10	28.63	2.41	12.89
1129+26.00	RT	MBTO	317.00	6	35.22	2.96	15.85
1131+43.00	LT	3600E RD	468.40	19.00	52.04	4.37	23.42
1131+43.00	RT	3600E RD	1049.60	37.00	116.62	9.80	52.48
1154+60.00	LT	PE/MBTO	646.70	10	71.86	6.04	32.34
1158+61.00	LT	3650E RD	1553.20	47	172.58	14.50	77.66
TOTAL					1852.81	155.64	833.77
USE					1853.0	156.0	834.0

CONCRETE MEDIAN, TYPE SM - 6.12

60622305

	STATION	SQ YD
NW QUAD	779+00.00	296.70
SW QUAD	779+49.00	185.97
NE QUAD	779+73.00	172.30
SE QUAD	780+17.00	303.59
TOTAL		958.56
USE		959.00

STEEL PLATE BEAM GUARDRAIL AND TERMINALS

	STATION TO	STATION		STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS 63000001 FOOT	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN 63000350 FOOT	TRAFFIC BARRIER TERMINAL TYPE 6 63100085 EACH	TRAFFIC BARRIER TERMINAL TYPE 6A 63100087 EACH	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT 63100167 EACH	GUARDRAIL REMOVAL 63200310 FOOT	GUARDRAIL RELECTORS TYPE A 78200005 EACH	TERMINAL MARKER DIRECT APPLIED 72501000 EACH	FURNISHED EXCAVATION
LEFT	900+74.0	902+74.0	207.50	125.00				2	207.50	4	2	23
LEFT	969+45.5	971+83.0	237.50	125.00	37.5			2	234.00	4	2	23
LEFT	1005+20.5	1006+08.0	87.50	12.50			1	1	89.00	2	1	11.5
LEFT	1006+36.0	1007+73.5	137.50	62.50			1	1	141.00	3	1	11.5
LEFT	1056+00.0	1058+50.0	250.00	175.00				2	253.00	4	2	23
LEFT	1066+07.5	1067+20.0	112.50	37.50		1		1	107.00	2	1	11.5
LEFT	1068+00.0	1069+75.0	175.00	112.50		1		1	179.00	3	1	11.5
RIGHT	863+98.0	866+85.5	287.50	175.00	37.5			2	294.00	4	2	23
RIGHT	900+19.0	902+19.0	200.00	125.00				2	207.00	4	2	23
RIGHT	968+95.5	971+20.5	225.00	112.50	37.5			2	228.00	4	2	23
RIGHT	1004+85.5	1006+23.0	137.50	62.50			1	1	139.00	2	1	11.5
RIGHT	1006+51.0	1007+38.5	87.50	12.50			1	1	90.00	2	1	11.5
RIGHT	1055+37.0	1057+87.0	250.00	175.00				2	254.00	4	2	23
RIGHT	1065+11.0	1066+86.0	175.00	112.50		1		1	175.00	3	1	11.5
RIGHT	1067+69.0	1068+81.5	112.50	37.50		1		1	106.00	2	1	11.5
	TOTAL			1462.5	112.5	4	4	22	2704	47	22	253

PARTIAL DEPTH PATCHING

STATION	DIRECTION (*WJ* DENOTES WIDENING JOINT)	LENGTH (ft)	WIDTH (ft)	EXISTING OVERLAY THICKNESS	PARTIAL DEPTH REMOVAL TYPE I, 8.5" X4406085 (sq. yd)	PARTIAL DEPTH REMOVAL TYPE II, 8.5" X4406285 (sq. yd)	PARTIAL DEPTH REMOVAL TYPE III, 8.5" X4406485 (sq. yd)	PARTIAL DEPTH REMOVAL TYPE IV, 8.5" X4406685 (sq. yd)	PARTIAL DEPTH PATCHING X4421000 (tons)
IL 136									
774+21	EB	5	12.60	5+	7.00				3.33
774+21	WB	5	12.60	5+	7.00				3.33
775+10	EB	5	12.60	5+	7.00				3.33
775+10	WB	5	12.60	5+	7.00				3.33
775+52	EB	5	12.60	5+	7.00				3.33
775+52	WB	5	12.60	5+	7.00				3.33
776+01	EB	5	12.60	5+	7.00				3.33
776+01	WB	5	12.60	5+	7.00				3.33
779+90	EB	5	12.60	5+	7.00				3.33
782+31	EB	5	12.60	5+	7.00				3.33
782+31	WB	5	12.60	5+	7.00				3.33
783+97	EB	5	12.60	5+	7.00				3.33
786+43	EB	6	12.60	5+		8.40			4.00
788+72	EB	5	12.60	5+	7.00				3.33
788+72	WB	5	12.60	5+	7.00				3.33
825+67	EB	5	12.60	5+	7.00				3.33
825+67	WB	5	12.60	5+	7.00				3.33
839+11	EB	5	12.60	5+	7.00				3.33
839+11	WB	5	12.60	5+	7.00				3.33
845+37	WB	10	12.60	5+		14.00			6.66
846+04	WB	5	12.60	5+	7.00				3.33
847+23	WB	8	12.60	5+		11.20			5.33
855+04	EB	5	12.60	5+	7.00				3.33
855+04	WB	5	12.60	5+	7.00				3.33
864+40	EB	5	12.60	5+	7.00				3.33
864+40	WB	5	12.60	5+	7.00				3.33
867+50	EB	5	12.60	5+	7.00				3.33
867+50	WB	5	12.60	5+	7.00				3.33
889+40	WB	5	12.60	5+	7.00				3.33
901+64	WB	5	12.60	5+	7.00				3.33
943+21	EB	5	12.60	5+	7.00				3.33
943+21	WB	5	12.60	5+	7.00				3.33
1015+00	WB	20	12.60	5+		28.00			13.33
1018+00	EB *WJ*	150	6.00	5+				100.00	47.60
1018+00	WB *WJ*	150	6.00	5+				100.00	47.60
1032+44	EB *WJ*	150	6.00	5+				100.00	47.60
1033+19	EB	6	12.00	5+		8.00			3.81
1068+95	EB *WJ*	150	6.00	5+				100.00	47.60
1068+95	WB *WJ*	150	6.00	5+				100.00	47.60
1095+50	EB *WJ*	150	6.00	5+				100.00	47.60
1095+50	WB	5	12.60	5+	7.00				3.33
1096+30	EB	6	12.60	5+		8.40			4.00
1104+30	EB	8	12.60	5+		11.20			5.33
1104+30	WB	8	12.60	5+		11.20			5.33
1112+49	EB	5	12.60	5+	7.00				3.33
1112+78	WB	6	12.60	5+		8.40			4.00
1119+84	WB	5	12.60	5+	7.00				3.33
1136+52	EB	5	12.60	5+	7.00				3.33
1140+81	WB	5	12.60	5+	7.00				3.33
1145+50	EB	5	12.60	5+	7.00				3.33
TBD	TBD	40	12.60	5+			56.00		26.66
SUBTOTAL					245.00	108.80	56.00	600.00	102.90
US 150									
1014+27	NB	6	12.60	5+		8.40			4.00
1014+27	SB	6	12.60	5+		8.40			4.00
1014+27	SBTL	10	20.00	5+		22.22			10.58
1014+27	SB	6	12.60	5+		8.40			4.00
1014+27	NB	5	12.60	5+	7.00				3.33
SUBTOTAL					7.00	47.42	0.00	0.00	25.90
TOTAL					252.00	156.22	56.00	600.00	128.80
USE					252.00	157.00	56.00	600.00	129.00

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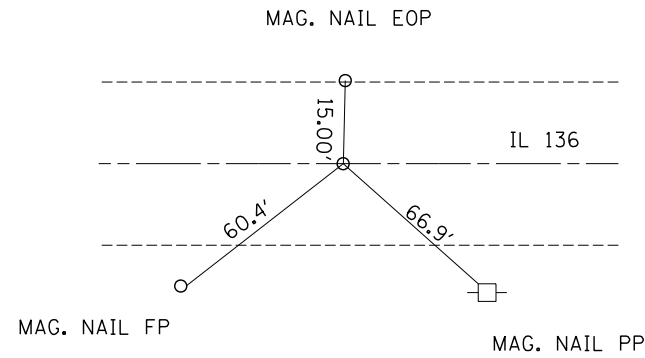
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

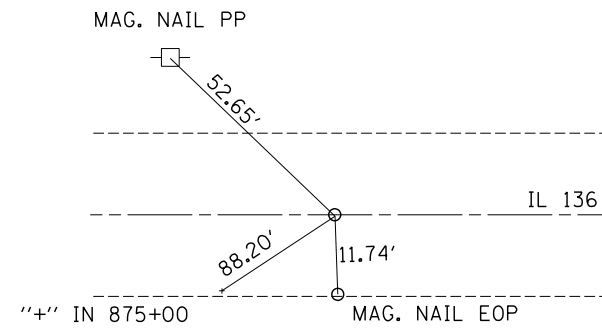
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	17
CONTRACT NO. 70995				
ILLINOIS FED. AID PROJECT				

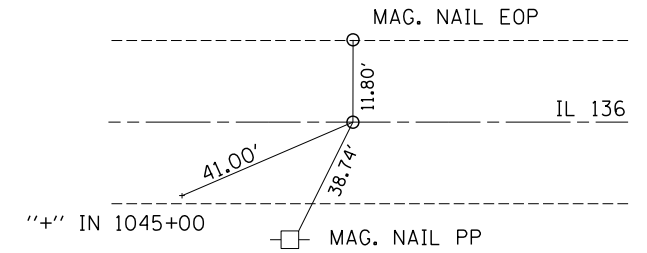
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STA. 773 + 63.89(BK) = STA. 774.94.27(AH)



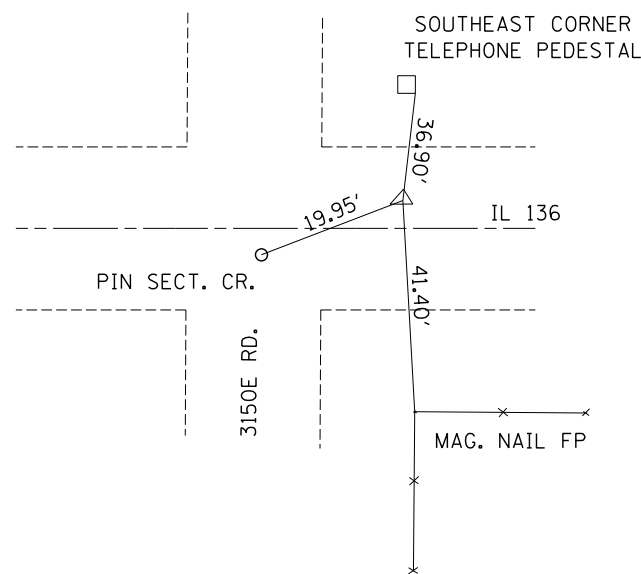
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STA. 875 + 89.84(BK) = STA. 875 + 94.84(AH)



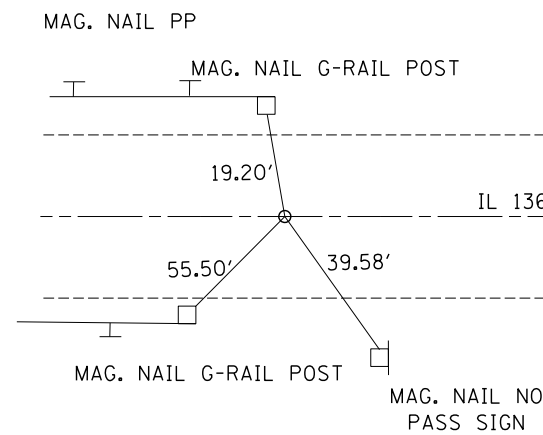
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STA. 1045 + 49.62



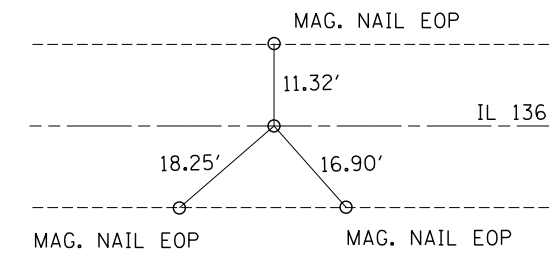
P.I. #143 – PT MAG. NAIL
STA. 1051 + 95.46



P.T. # (NO NUM) – MAG. NAIL
STA. 1058 + 41.29



P.C. (NO NUM) – MAG. NAIL
STA. 1108 + 30.68



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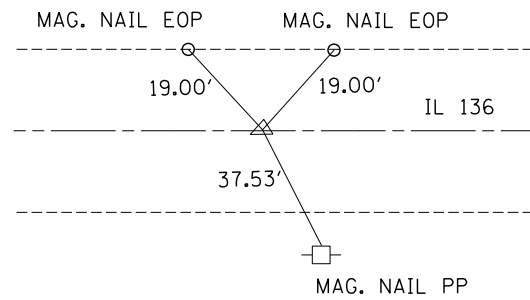
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CENTERLINE RECOVERY TIE POINTS

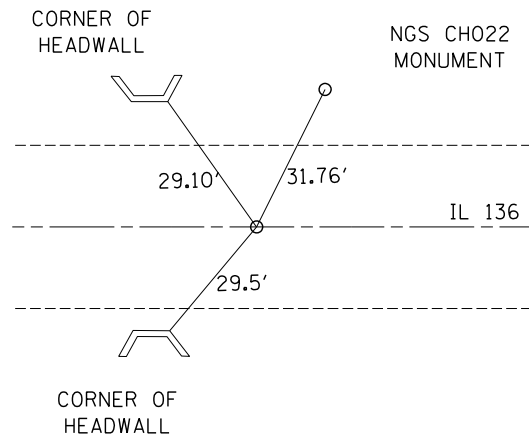
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70995			ILLINOIS FED. AID PROJECT	

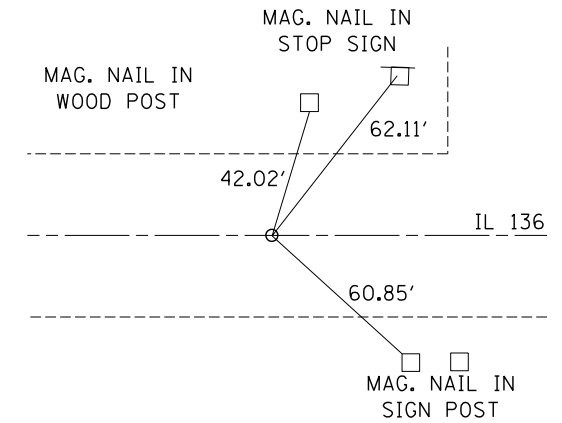
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STA. 1112 + 99.97



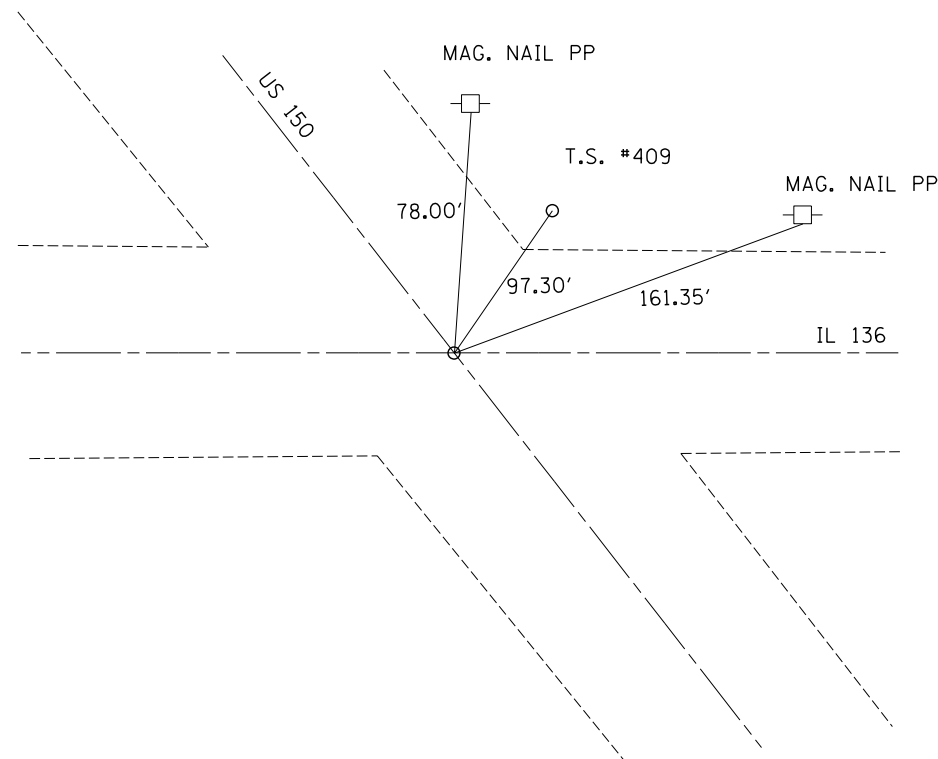
P.T. (NO NUM) – MAG. NAIL
STA. 1117 + 69.23



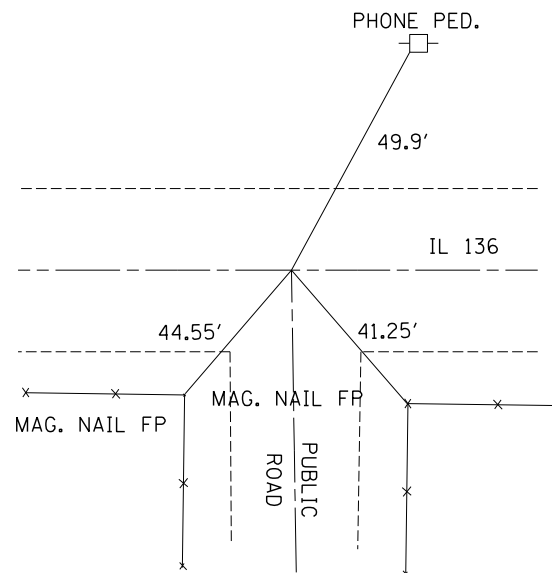
P.I. #31 – MAG. NAIL
STA. 1157 + 98.82



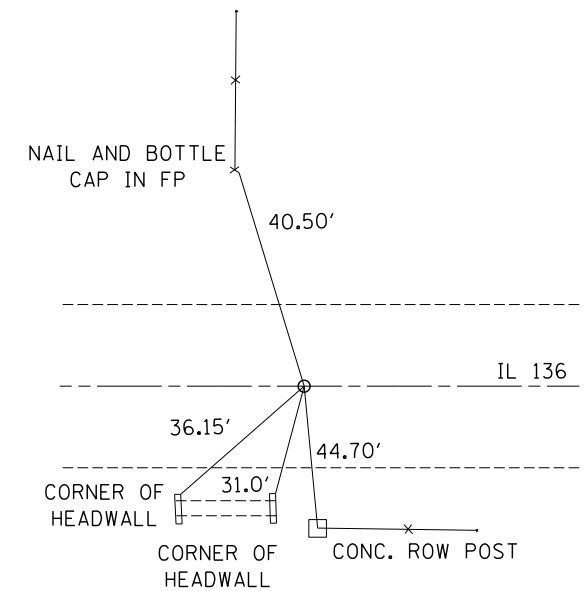
P.I. #197 – MAG. NAIL
STA. 779 + 62.6



#76 – N 1/4 COR. SEC. 2
STA. 1051 + 76.55



#150 – NW COR. SEC. 3
STA. 972 + 28.79



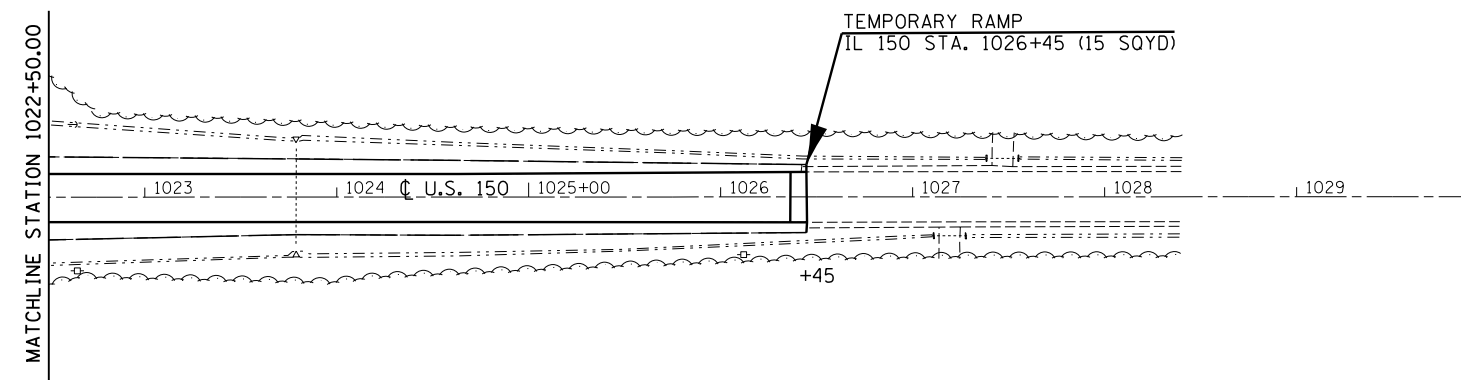
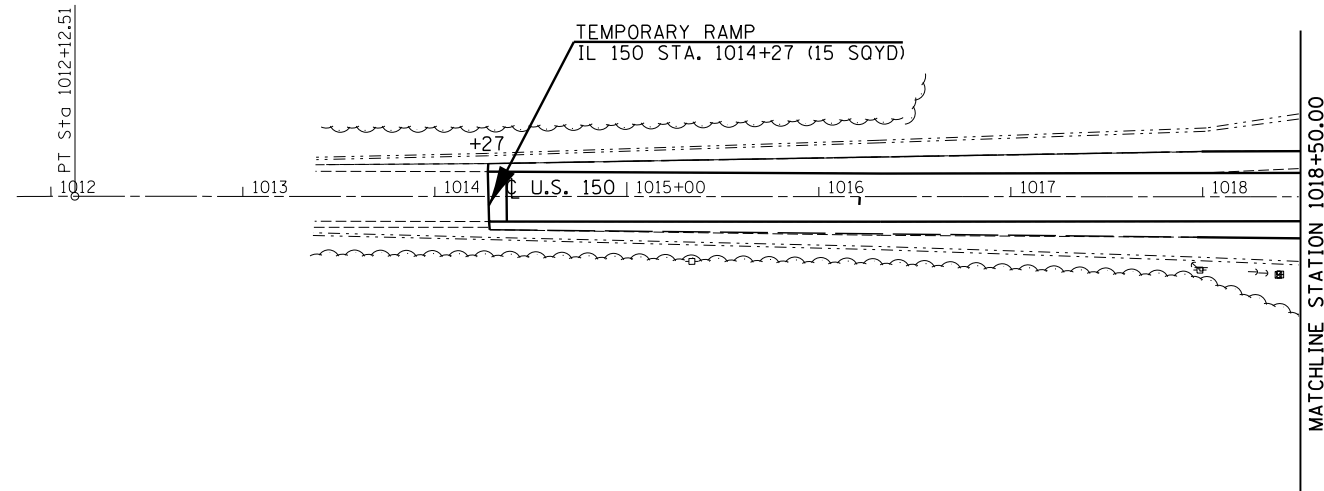
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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CENTERLINE RECOVERY TIE POINTS

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	20
CONTRACT NO. 70995			ILLINOIS FED. AID PROJECT	



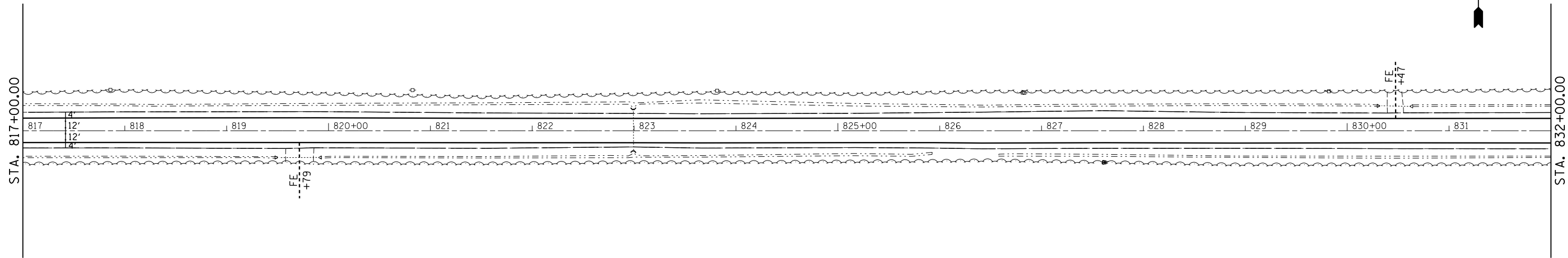
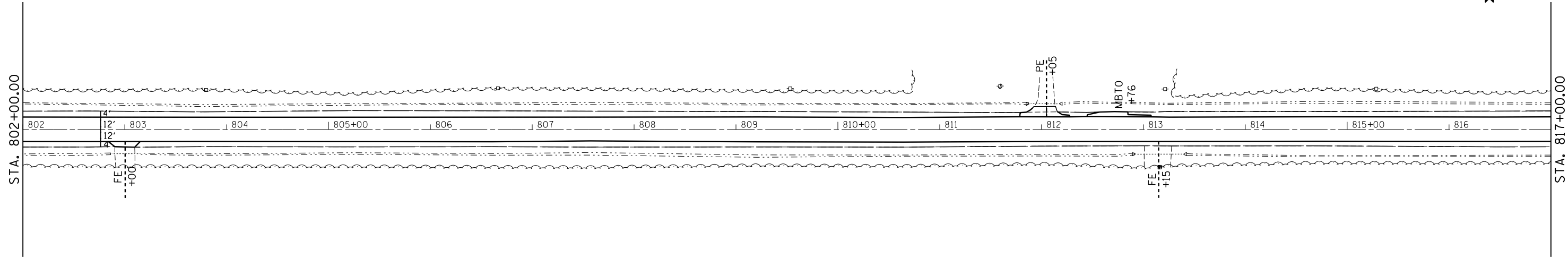
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET
U.S. 150**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 1013+00.00 TO STA. 1029+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	22
CONTRACT NO. 70995			ILLINOIS FED. AID PROJECT	



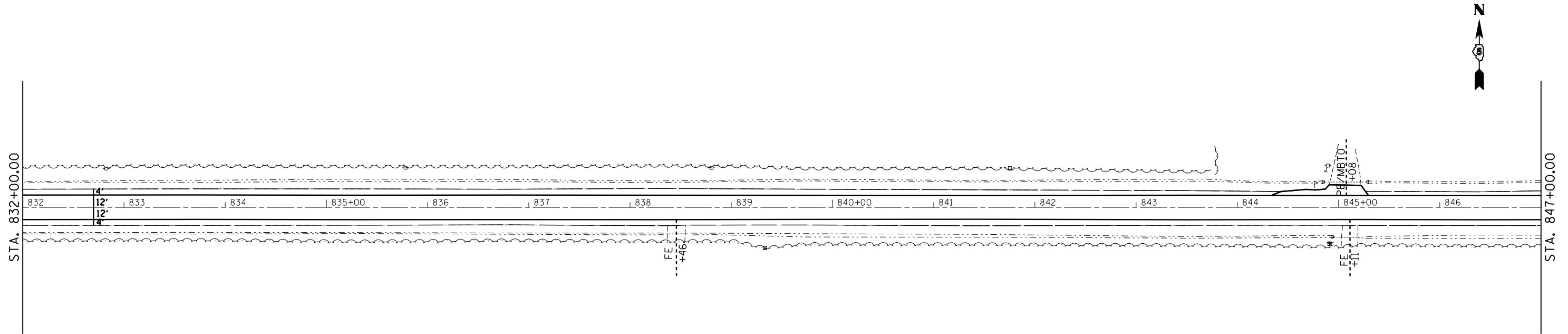
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

Plan Sheet			
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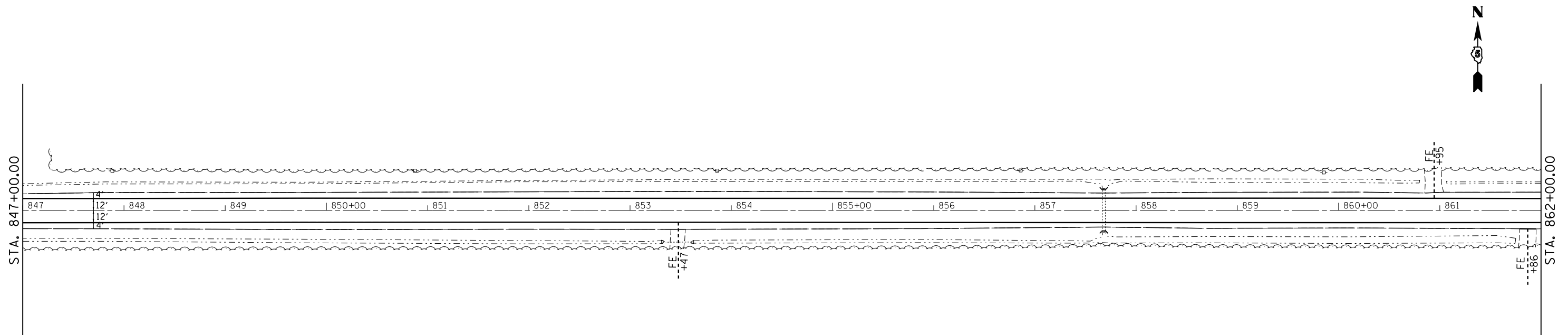
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709	103RS-2	MCLEAN	55	23
				CONTRACT NO. 70995
ILLINOIS FED. AID PROJECT				

SEC. 31, T22N, R5E, 3RD PM



SEC. 6, T21N, R5E, 3RD PM

SEC. 31, T22N, R5E, 3RD PM

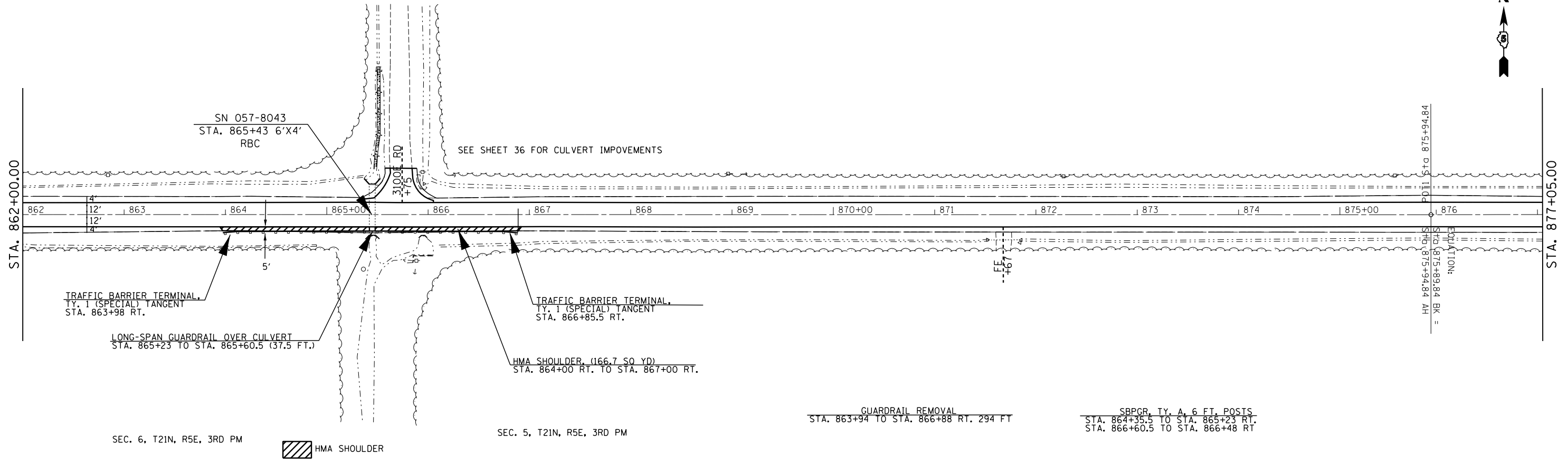


SEC. 6, T21N, R5E, 3RD PM

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SEC. 31, T22N, R5E, 3RD PM

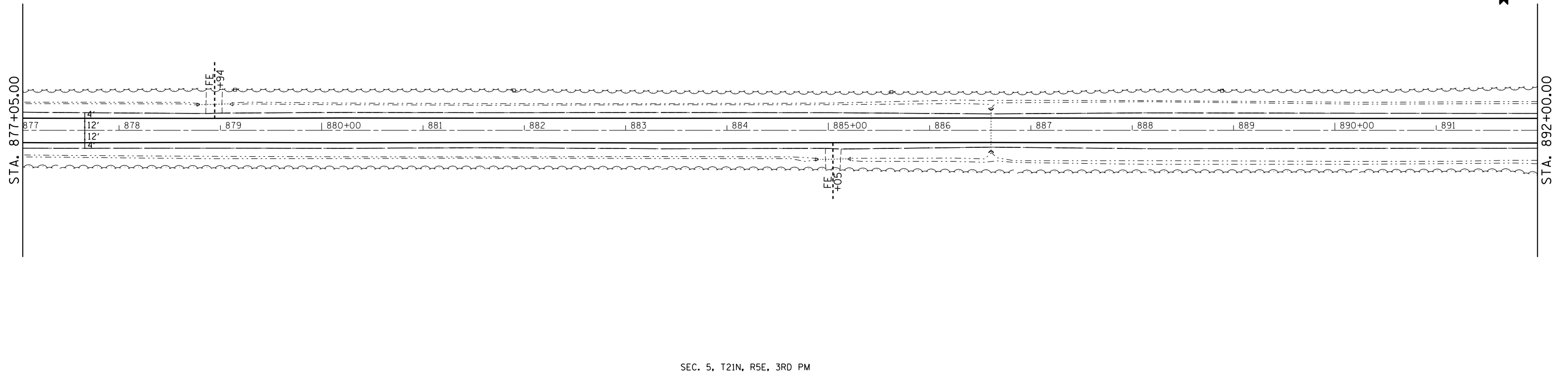
SEC. 32, T22N, R5E, 3RD PM



SEC. 6, T21N, R5E, 3RD PM

SEC. 5, T21N, R5E, 3RD PM

SEC. 32, T22N, R5E, 3RD PM



SEC. 5, T21N, R5E, 3RD PM

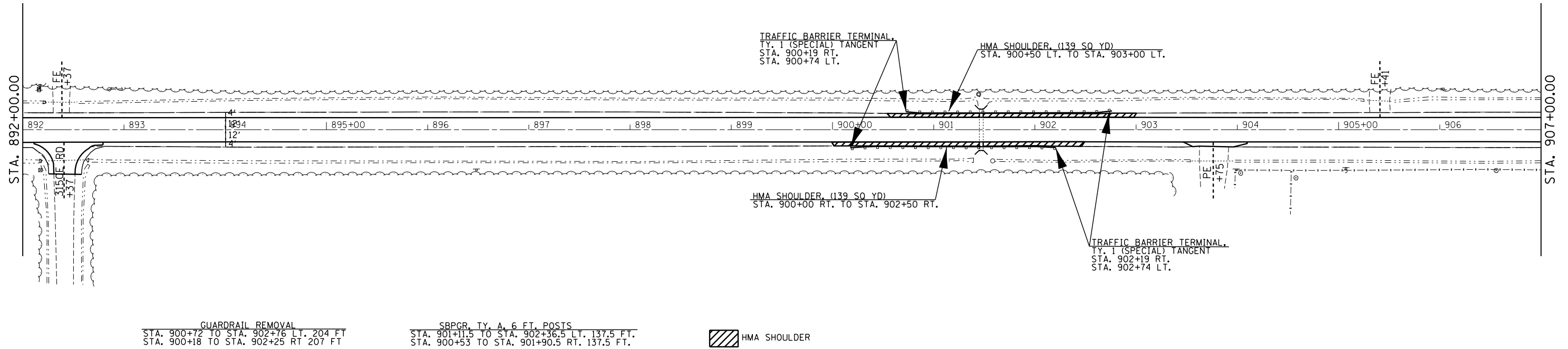
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

Plan Sheet			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	25
CONTRACT NO. 70995			ILLINOIS FED. AID PROJECT	

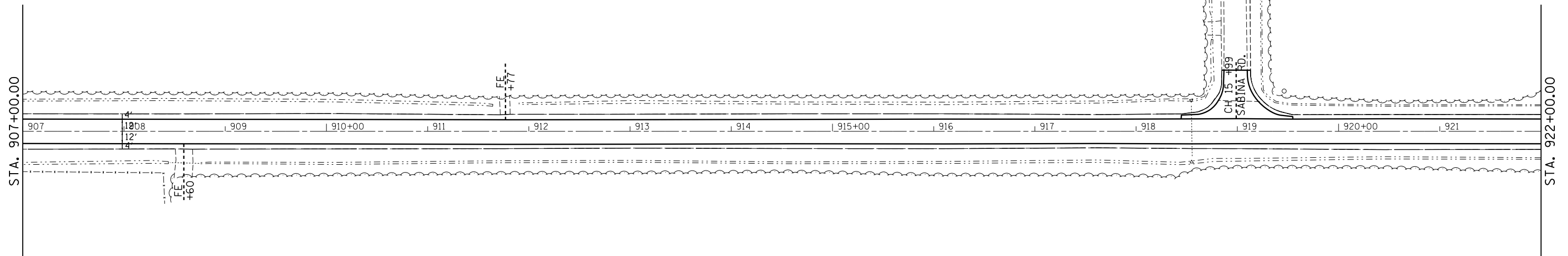
SEC. 32, T22N, R5E, 3RD PM



SEC. 5, T21N, R5E, 3RD PM

SEC. 32, T22N, R5E, 3RD PM

SEC. 33, T22N, R5E, 3RD PM



SEC. 5, T21N, R5E, 3RD PM

SEC. 4, T21N, R5E, 3RD PM

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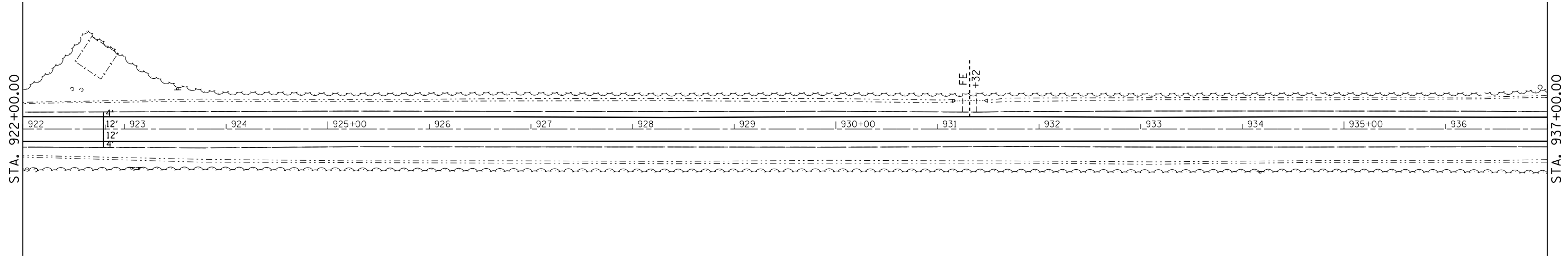
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Plan Sheet

SCALE: SHEET OF SHEETS STA. TO STA.

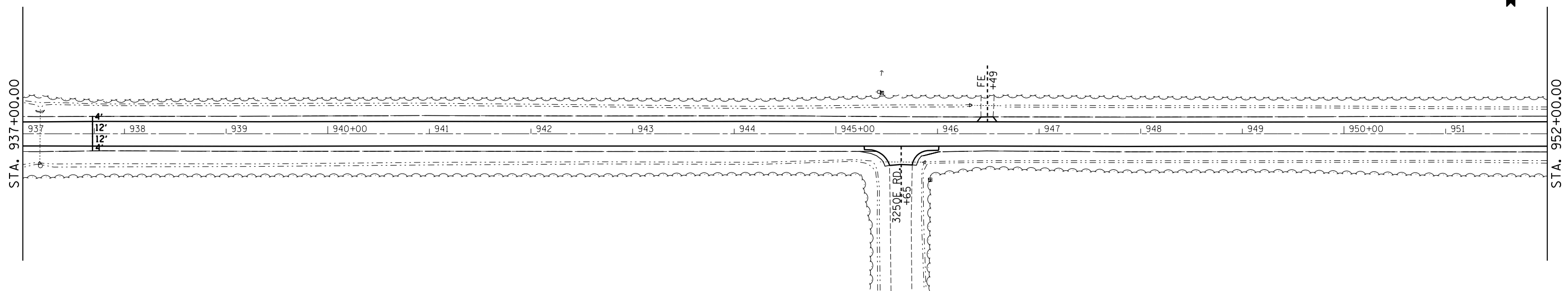
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709	103RS-2	MCLEAN	55	26
CONTRACT NO. 70995			ILLINOIS FED. AID PROJECT	

SEC. 33, T22N, R5E, 3RD PM



SEC. 4, T21N, R5E, 3RD PM

SEC. 33, T22N, R5E, 3RD PM



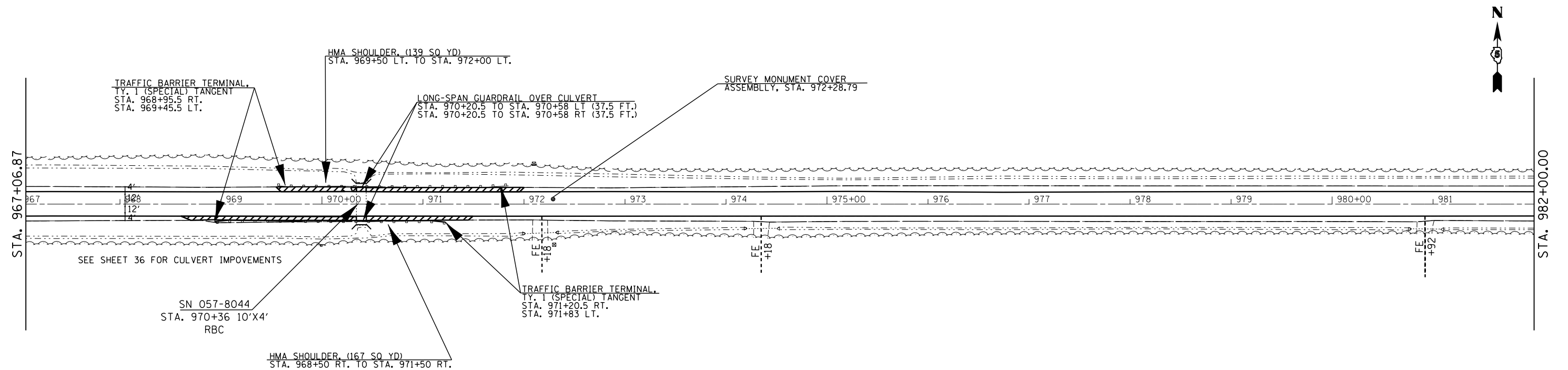
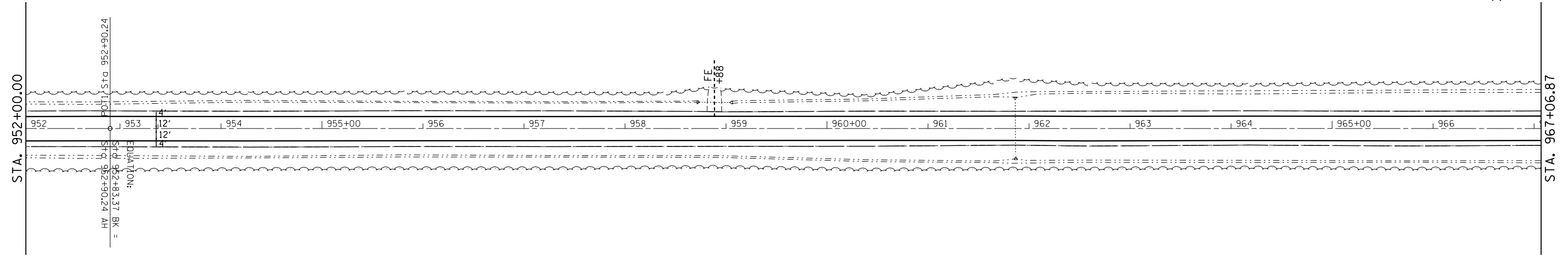
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#MODELNAME#	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

Plan Sheet			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	27
				CONTRACT NO. 70995
ILLINOIS FED. AID PROJECT				



SEC. 4, T21N, R5E, 3RD PM

HMA SHOULDER

SEC. 3, T21N, R5E, 3RD PM

GUARDRAIL REMOVAL
STA. 969+50 TO STA. 971+84 LT. 234 FT.
STA. 968+94 TO STA. 971+22 RT 228 FT.

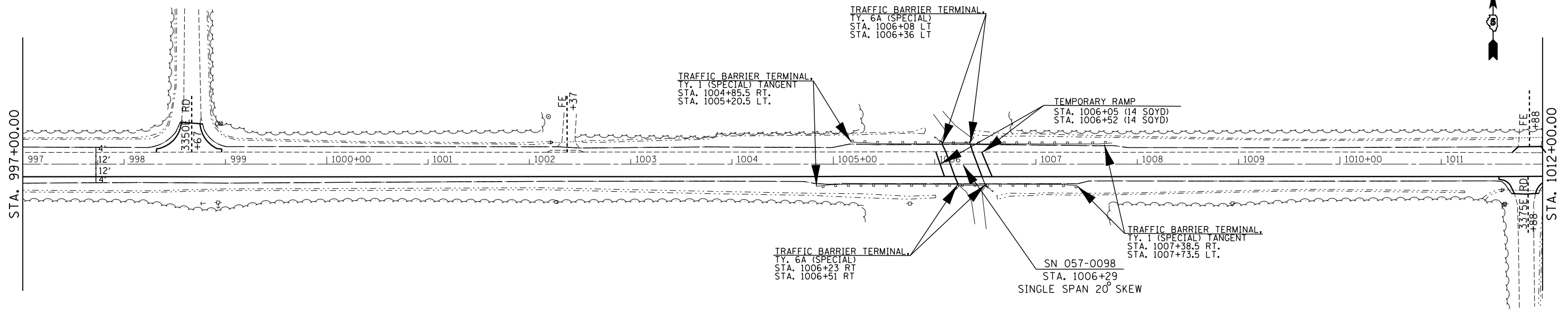
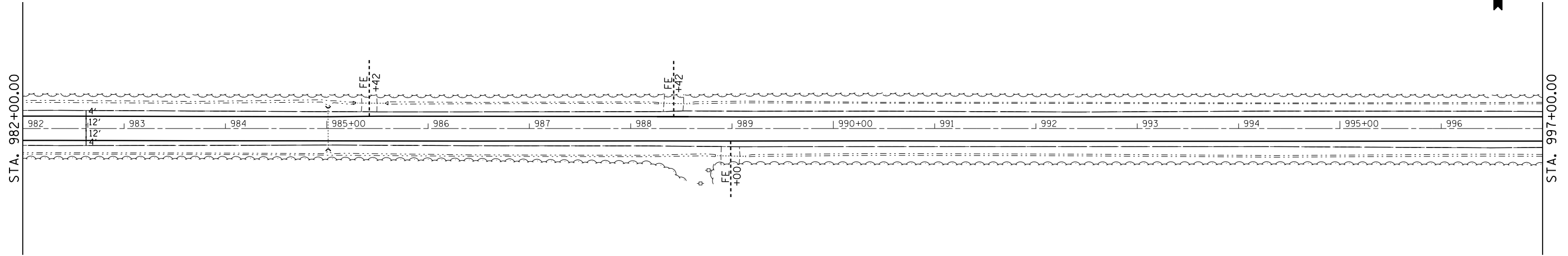
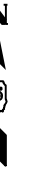
SBPCR, TY. A, 6 FT. POSTS
STA. 969+31.5 TO STA. 970+19 RT.
STA. 970+56.5 TO STA. 970+84.5 RT.
STA. 968+83 TO STA. 970+20.5 LT.
STA. 970+58 TO STA. 971+45.5 LT.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Plan Sheet			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	28
CONTRACT NO. 70995			ILLINOIS FED. AID PROJECT	



SBPGR, TY. A, 6 FT. POSTS
 STA. 1005+58 TO STA. 1005+70.5 LT.
 STA. 1006+73.5 TO STA. 1007+36 LT.
 STA. 1005+23 TO STA. 1005+85.5 RT.
 STA. 1006+88.5 TO STA. 1007+01 RT.

GUARDRAIL REMOVAL
 STA. 1005+18 TO STA. 1007+76 LT. 258 FT
 STA. 1004+85 TO STA. 1007+43 RT. 258 FT

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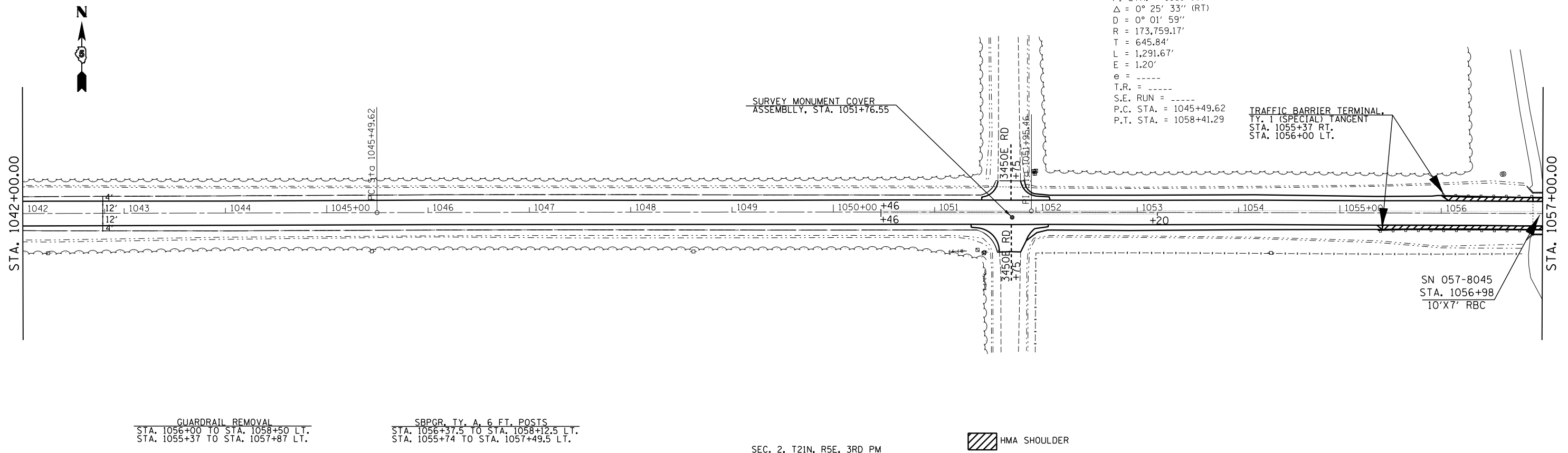
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Plan Sheet	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70995			ILLINOIS FED. AID PROJECT	

SEC. 35, T22N, R5E, 3RD PM

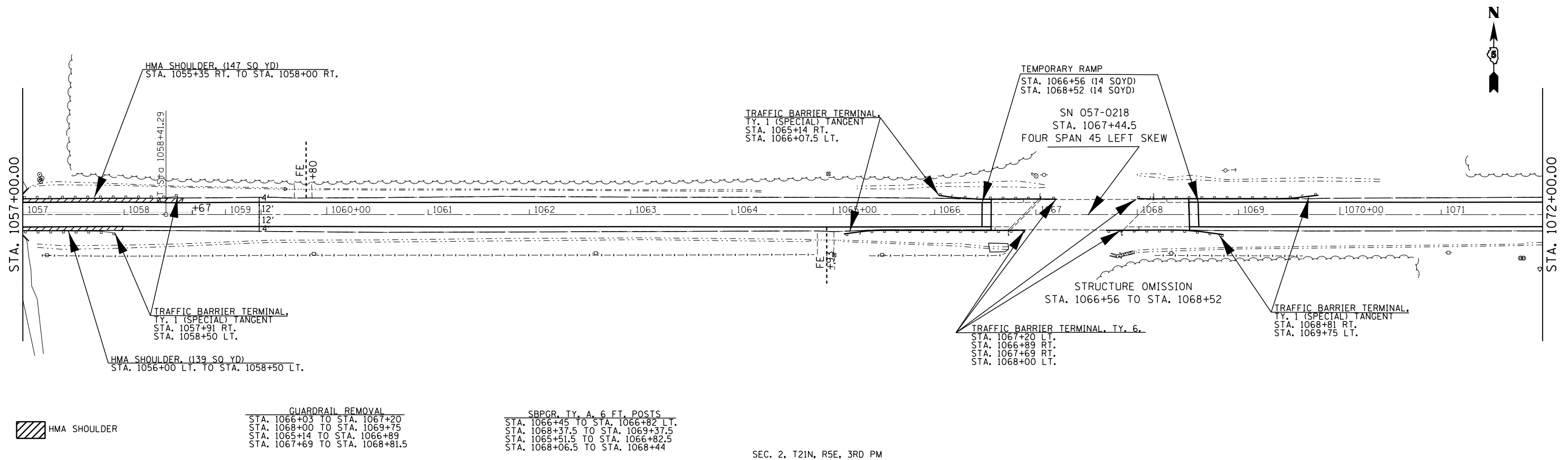
EXIST. CURVE US136.13
 PI STA. = 1051+95.46
 $\Delta = 0^\circ 25' 33''$ (RT)
 $D = 0^\circ 01' 59''$
 $R = 173,759.17'$
 $T = 645.84'$
 $L = 1,291.67'$
 $E = 1.20'$
 $e =$ -----
 $T.R. =$ -----
 $S.E. RUN =$ -----
 $P.C. STA. = 1045+49.62$
 $P.T. STA. = 1058+41.29$



SEC. 2, T21N, R5E, 3RD PM

HMA SHOULDER

SEC. 35, T22N, R5E, 3RD PM



SEC. 2, T21N, R5E, 3RD PM

HMA SHOULDER

GUARDRAIL REMOVAL
 STA. 1066+03 TO STA. 1067+20
 STA. 1068+00 TO STA. 1069+75
 STA. 1065+14 TO STA. 1066+89
 STA. 1067+69 TO STA. 1068+81.5

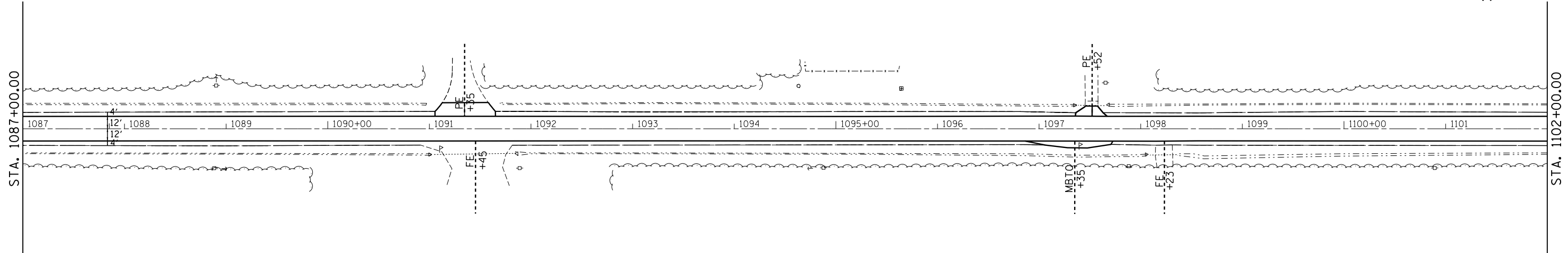
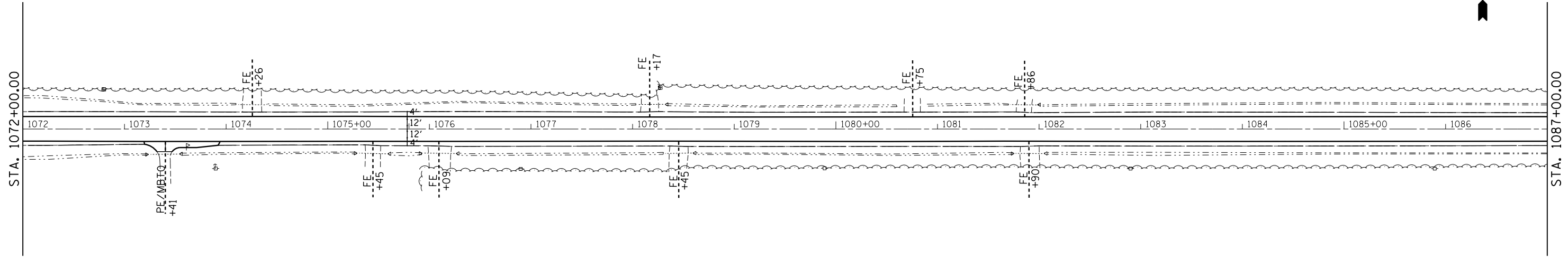
SBPGR, TY. A, 6 FT. POSTS
 STA. 1066+45 TO STA. 1066+82 LT.
 STA. 1068+37.5 TO STA. 1069+37.5
 STA. 1065+51.5 TO STA. 1066+82.5
 STA. 1068+06.5 TO STA. 1068+44

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

Plan Sheet

FILE NAME =	USER NAME = LEROYMA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	Plan Sheet	F.A.P. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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#MODELNAME#	PLLOT DATE = 12/8/2016	DATE -	REVISED -			CONTRACT NO. 70995					
						ILLINOIS FED. AID PROJECT					

SCALE: SHEET OF SHEETS STA. TO STA.

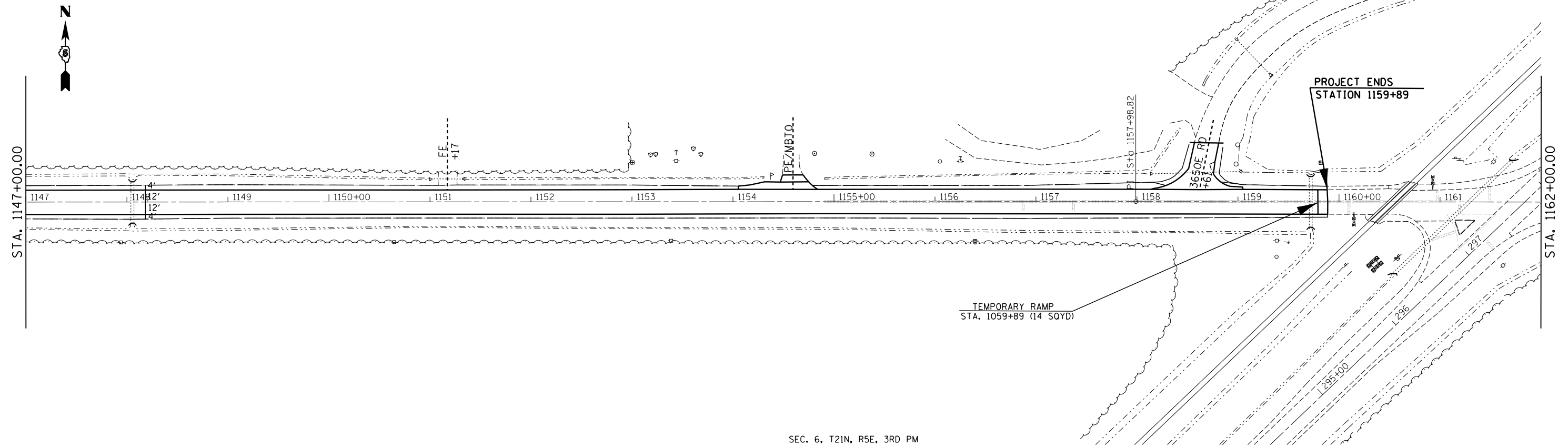
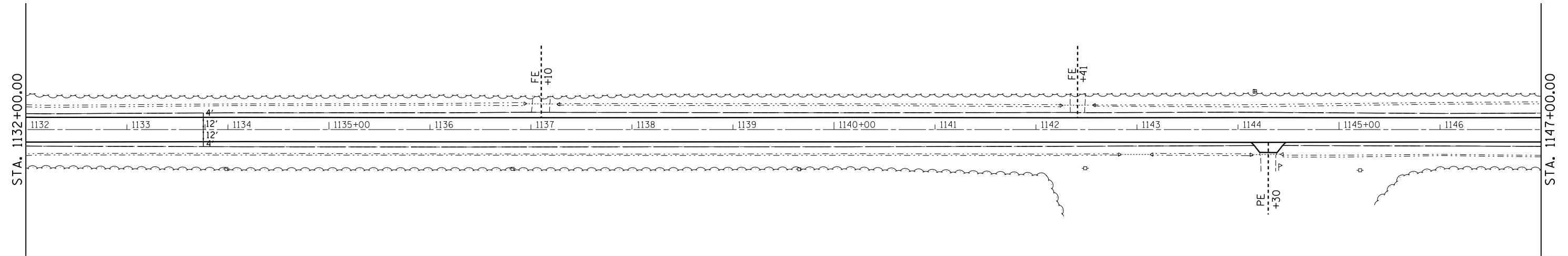


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#MODELNAME#	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

Plan Sheet			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70995				
ILLINOIS FED. AID PROJECT				

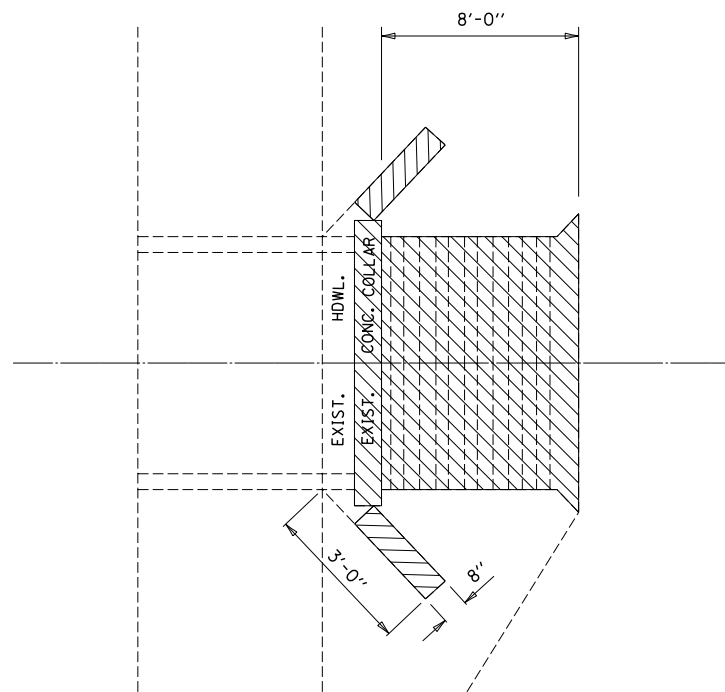


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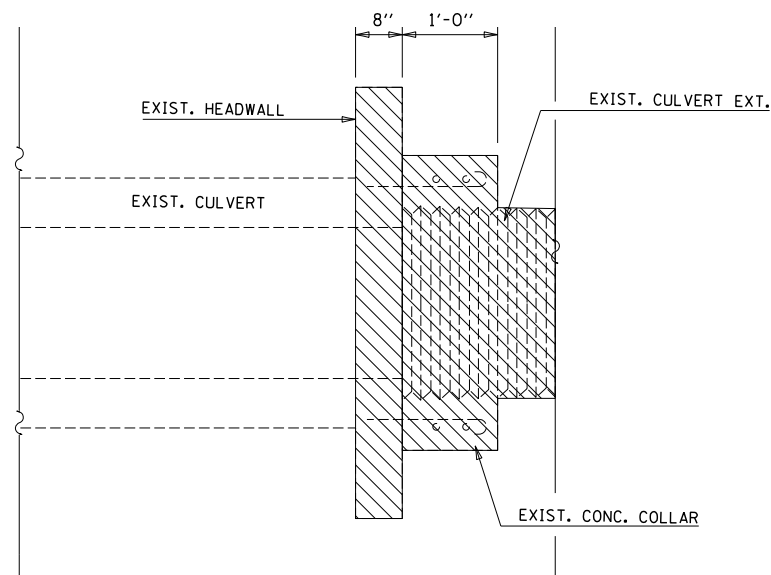
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

Plan Sheet			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

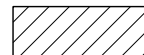
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70995			ILLINOIS FED. AID PROJECT	



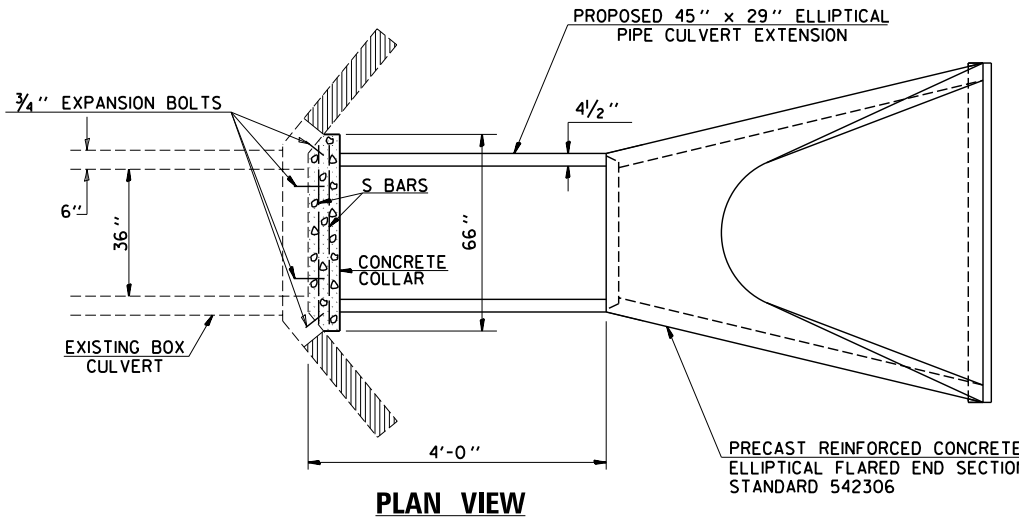
**PLAN VIEW
(REMOVAL)**



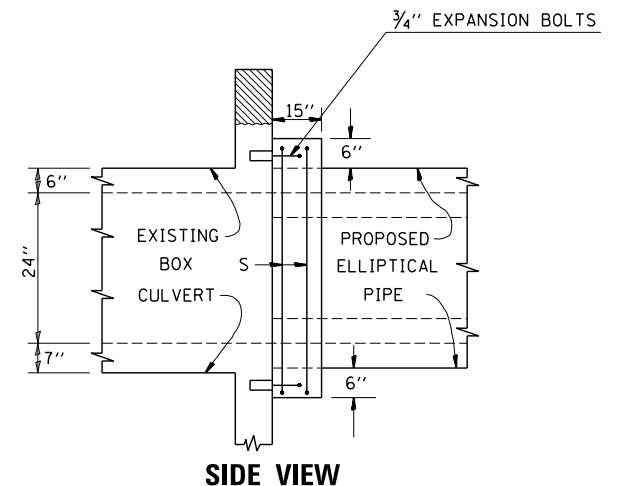
**SIDE VIEW
(REMOVAL)**



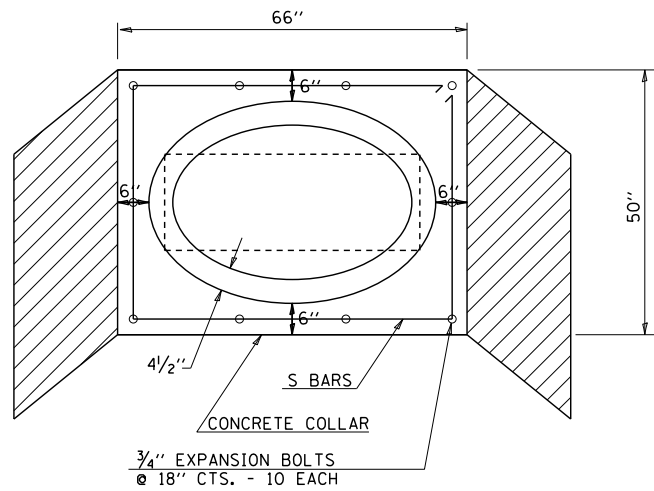
- EXCAVATE THE AREA TO BE REMOVED.
- REMOVE THE EXISTING PIPE CULVERT EXTENSION AND THE EXISTING HEADWALL AND COLLAR DOWN TO 12" BELOW FINISHED GRADE AS DIRECTED BY THE ENGINEER.
- REMOVE ONLY THAT PORTION OF THE EXISTING WINGWALLS THAT EXTENDS PAST THE PROPOSED COLLAR AS DIRECTED BY THE ENGINEER
- THIS WORK SHALL BE INCLUDED IN THE COST FOR PIPE CULVERT REMOVAL (SPECIAL) AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED



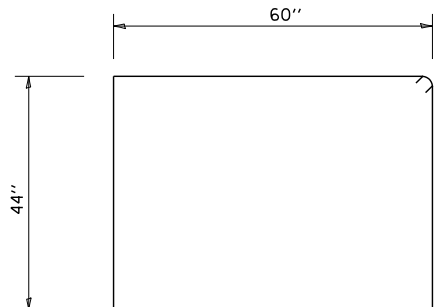
PLAN VIEW



SIDE VIEW



END VIEW



BARS S
SIZE #5
QUANTITY 2
LENGTH 17'-4"

NOTES

1. CLASS S1 CONCRETE SHALL BE USED THROUGHOUT.
2. EXPANSION BOLTS SHALL CONSIST OF SELF-DRILLING EXPANSION SHIELD AND M20 HOOKED BAR. THE HOOKED BAR SHALL EXTEND 6" MINIMUM INTO CONCRETE COLLAR AND EXISTING HEADWALL.
3. THE CULVERT SHALL BE BACKFILLED AND FINISHED GRADED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL REMOVE ADDITIONAL PORTIONS OF THE WING WALLS AS REQUIRED TO ALLOW THE PIPE CULVERT TO FIT TIGHTLY AGAINST THE HEADWALL.
5. THE COST OF THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE COST OF THE CONCRETE COLLAR PAY ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED:

EARTH EXCAVATION	8.0 CU. YD.
FURNISHED EXCAVATION	5.0 CU. YD.
3/4" EXPANSION BOLTS	10.0 CU. YD.
REINFORCEMENT BARS	4.0 CU. YD.

ALL EARTH FROM EXCAVATION SHALL BE WASTED WITHIN THE PROJECT LIMITS. TRANSPORT OF EARTH MATERIAL OFFSITE WILL NOT BE ALLOWED.

BILL OF MATERIALS

DESCRIPTION	QUANTITY	UNIT
CONCRETE COLLAR	0.8	CU YD
PIPE CULVERT REMOVAL (SPECIAL)	8.0	FOOT
PRC FLARED END SECTION EQ RS 36"	1.0	EACH
PIPE CULVERT CL A 1 EQRS 36"	4.0	FOOT




STRUCTURE 057-0098 WAS ORIGINALLY BUILT IN 1933 AS SECTION SBI-119 AT STATION 1006+29.00 BY THE STATE OF ILLINOIS.

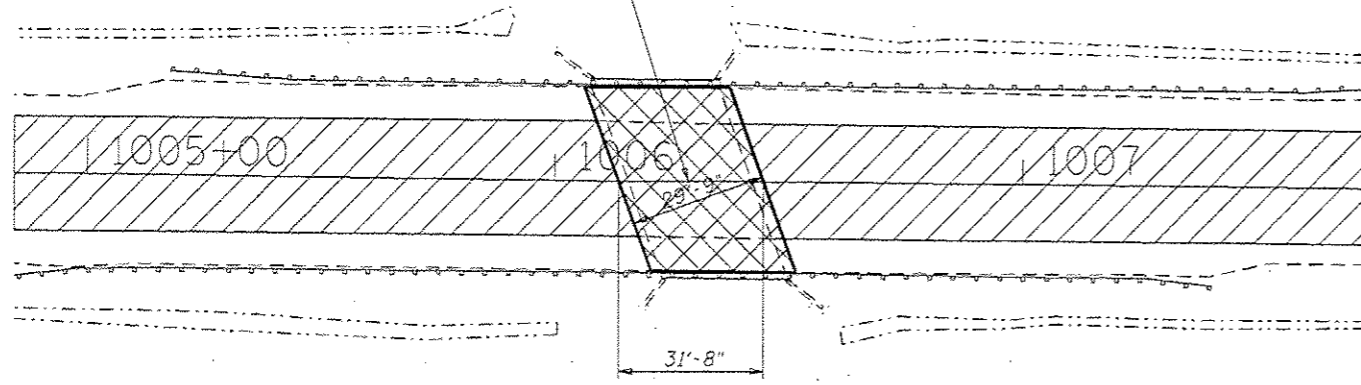
THE EXISTING STRUCTURE IS A SINGLE SPAN, 20" THICK, REINFORCED CONCRETE SLAB BRIDGE ON PILE SUPPORTED ABUTMENTS WITH A BACK-TO-BACK OF ABUTMENT LENGTH OF 27'-8", OUT-TO-OUT WIDTH OF 42'-4", BRIDGE ROADWAY WIDTH OF 39'-1" AND AN APPROACH ROADWAY WIDTH OF 24'-0" THE STRUCTURE WAS BUILT ON A 20° RIGHT-FORWARD SKEW.

METHOD OF CONSTRUCTION: STAGED CONSTRUCTION

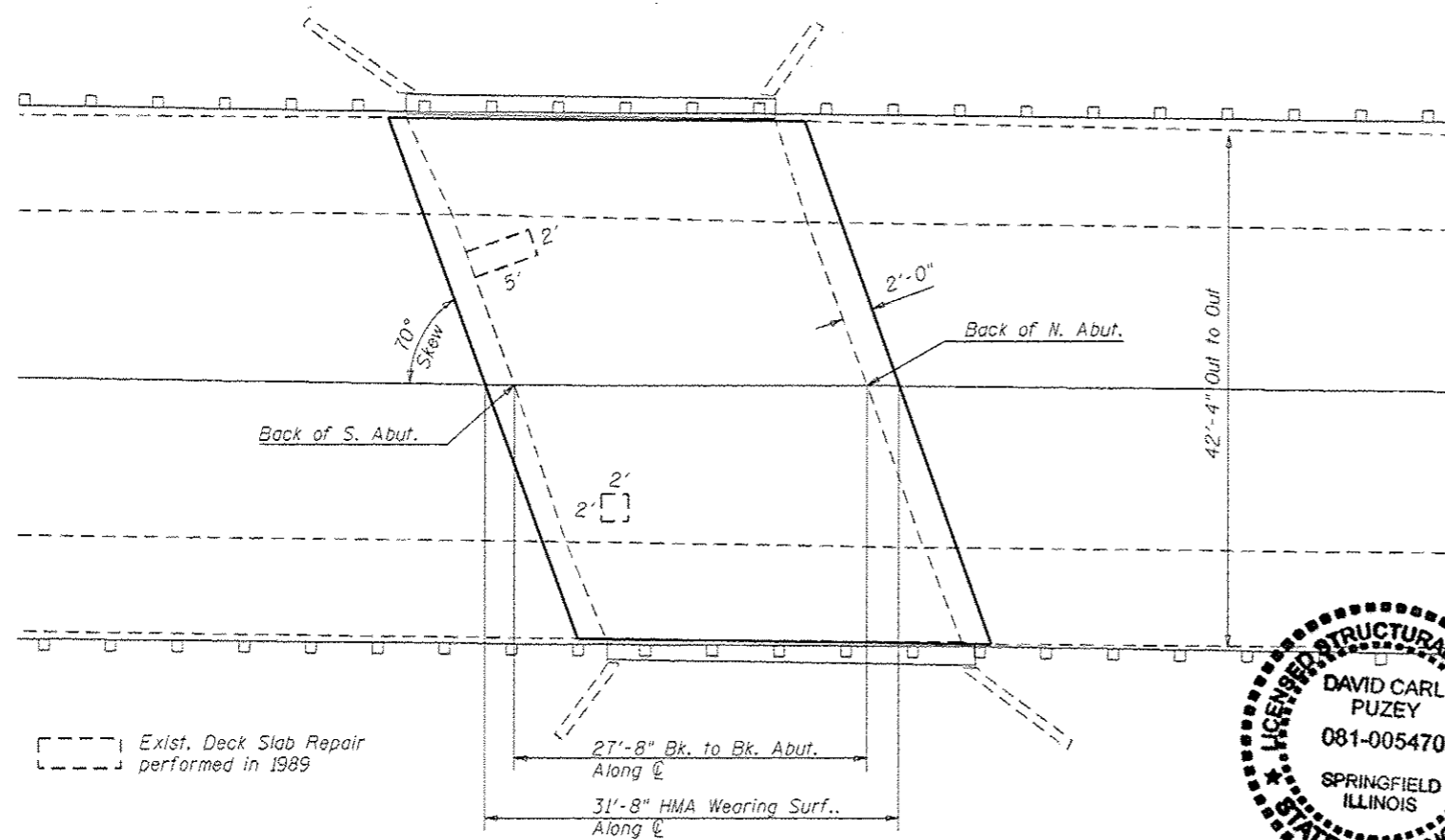
Exst. S.N. 057-0098
US 136 @ Sta. 1006+29.00

LEGEND

-  HMA Surface Removal - 2 1/4"
-  HMA Surface Removal (Deck)
-  Waterproofing Membrane System

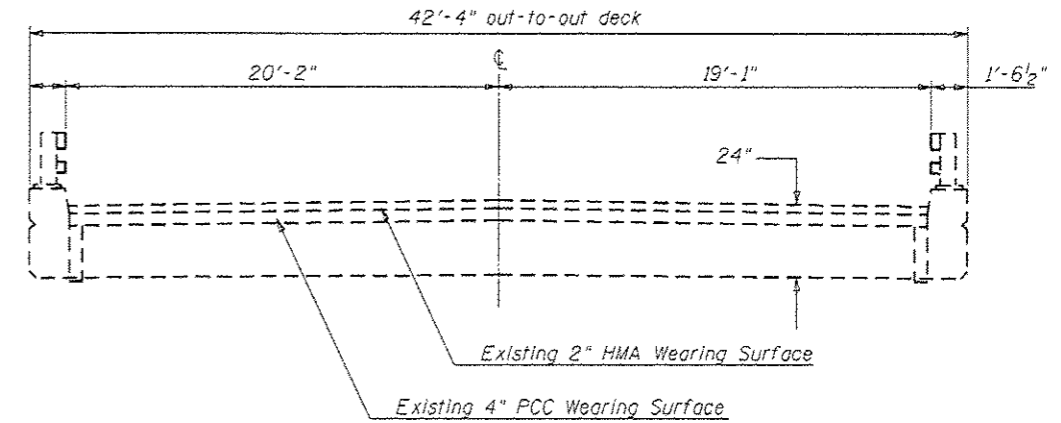


PLAN VIEW

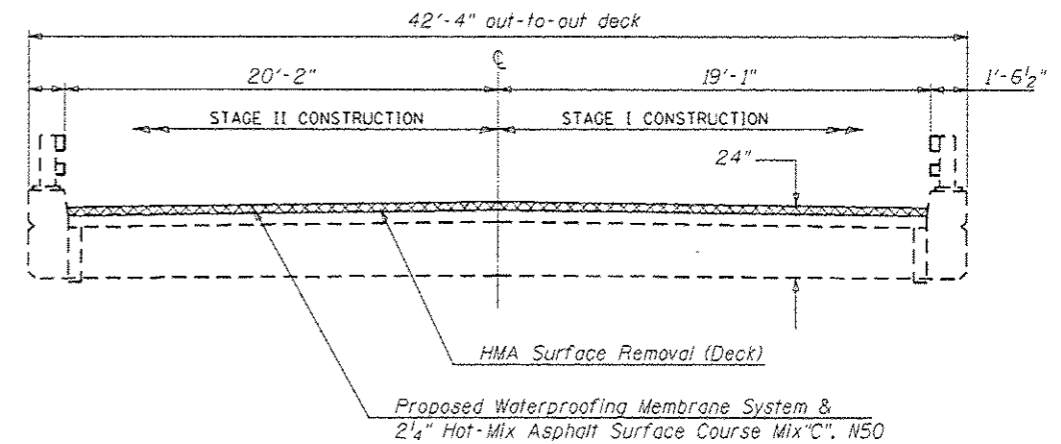


PLAN VIEW

**EXISTING DECK CROSS SECTION
(LOOKING NORTH-EAST)**



**PROPOSED DECK CROSS SECTION
(LOOKING NORTH-EAST)**



GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work. However, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

Deck Slab Repair of 10% of total deck area was estimated. The Engineer shall show actual locations of Deck Repair on As-Built Plans.

* Bill of Materials includes quantities associated with S.N. 057-0098 only. See Roadway Plans for other quantities.

*** TOTAL BILL OF MATERIAL S.N. 057-0098**

ITEM	UNIT	TOTAL
HMA Surface Removal (Deck)	Sq Yd.	138.0
HMA Surface Course, Mix "C". NFO	Ton	18.0
Waterproofing Membrane System	Sq Yd.	138.0
Deck Slab Repair (Partial Depth)	Sq Yd.	14.0

PROPOSED WORK

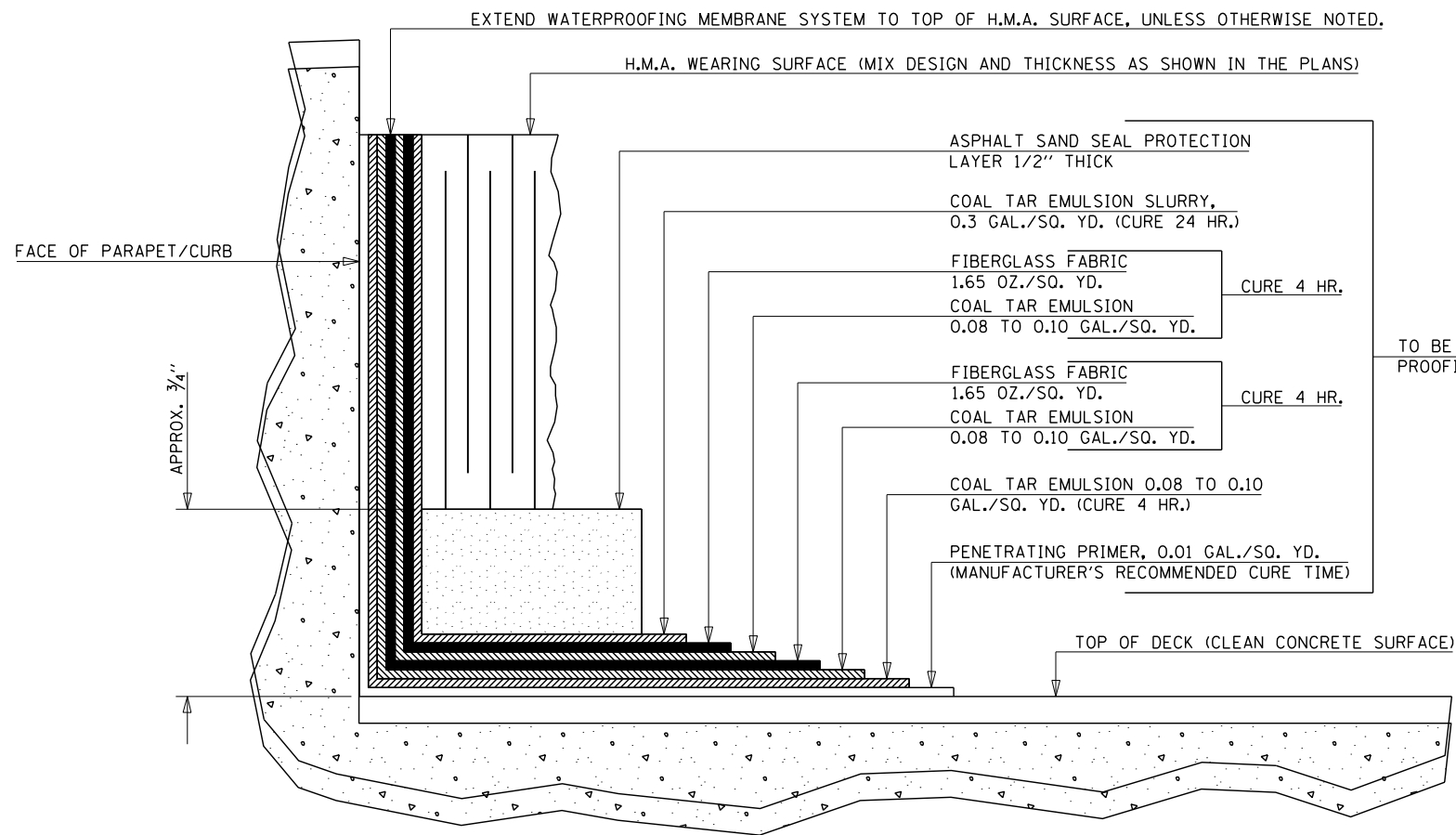
1. Remove existing HMA wearing surface and waterproofing membrane system.
2. Place new waterproofing membrane system.
3. Place 2 1/4" of HMA Surface Course over deck.



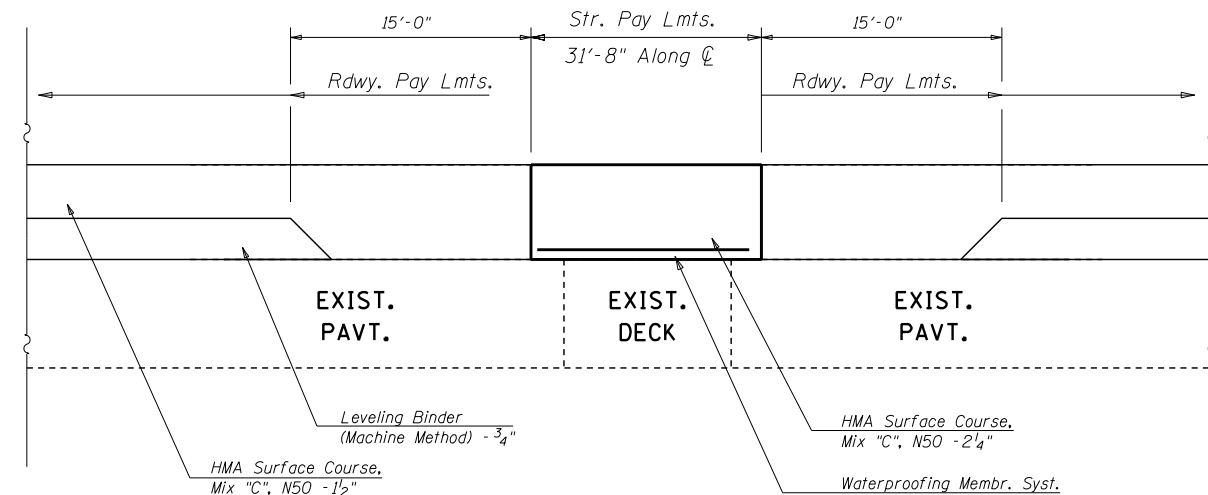
David Carl Puzey 1/30/17
Expires 11/30/18

FILE NAME =	USER NAME = shaner_jm	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & STRUCTURE DETAIL S.N. 057-0098	F.A.P. RTE. 709	SECTION 103RS-2	COUNTY MCLEAN	TOTAL SHEETS 55	SHEET NO. 37
CONTRACT NO. 70995	DATE 1/24/2017	CHECKED - CCC	REVISED -	SCALE: NONE	SHEET 1 OF 2 SHEETS	ILLINOIS FED. AID PROJECT				

REV



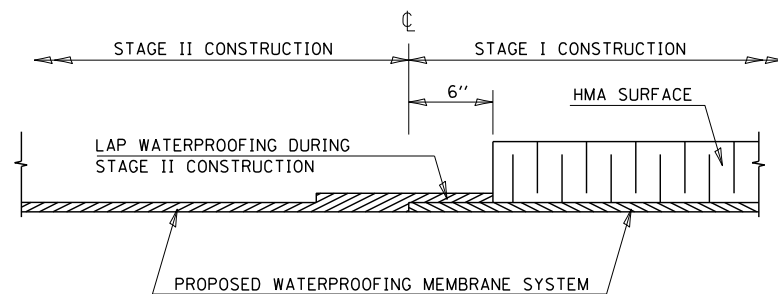
TO BE PAID FOR AS WATER-PROOFING MEMBRANE SYSTEM



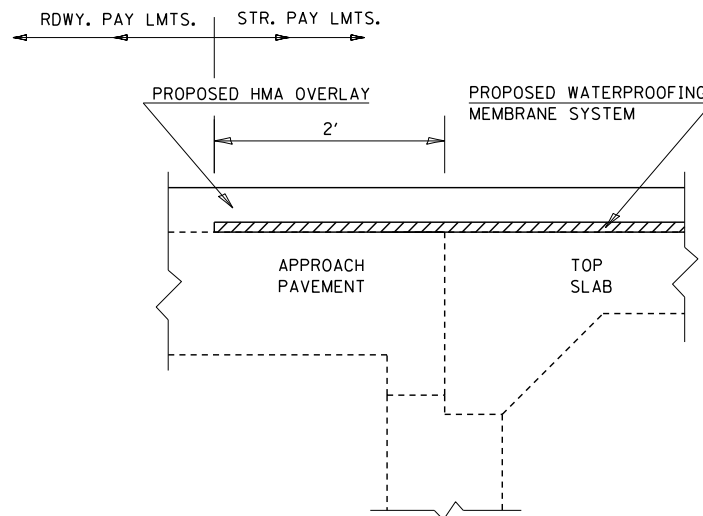
NOTES

THIS DETAIL HAS BEEN INCLUDED TO ILLUSTRATE THE ASSOCIATED LAYERS AND CURE TIMES NECESSARY FOR THE PLACEMENT OF THE WATERPROOFING MEMBRANE SYSTEM. THIS DETAIL SHALL SUPPLEMENT, NOT SUPERSEDE, SECTION 581 OF THE STANDARD SPECIFICATIONS.

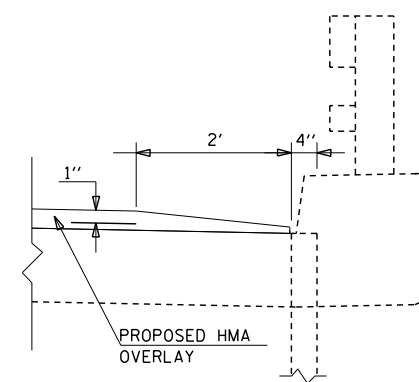
PROPOSED PAVEMENT TRANSITION



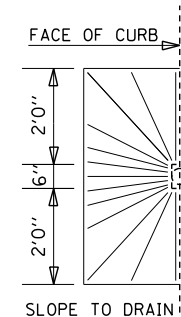
WATERPROOFING TREATMENT AT STAGE CONSTRUCTION



SECTION AT ABUTMENT (VIEW OF WATERPROOFING MEMBRANE AT JOINT)



SECTION AT DRAIN



PLAN VIEW AT DRAIN

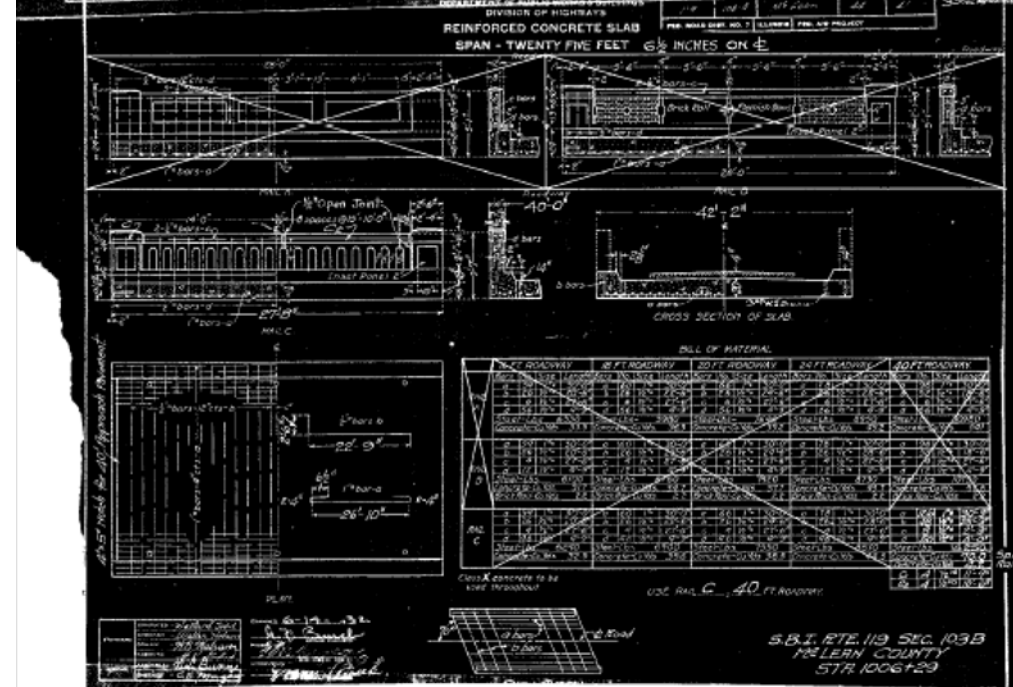
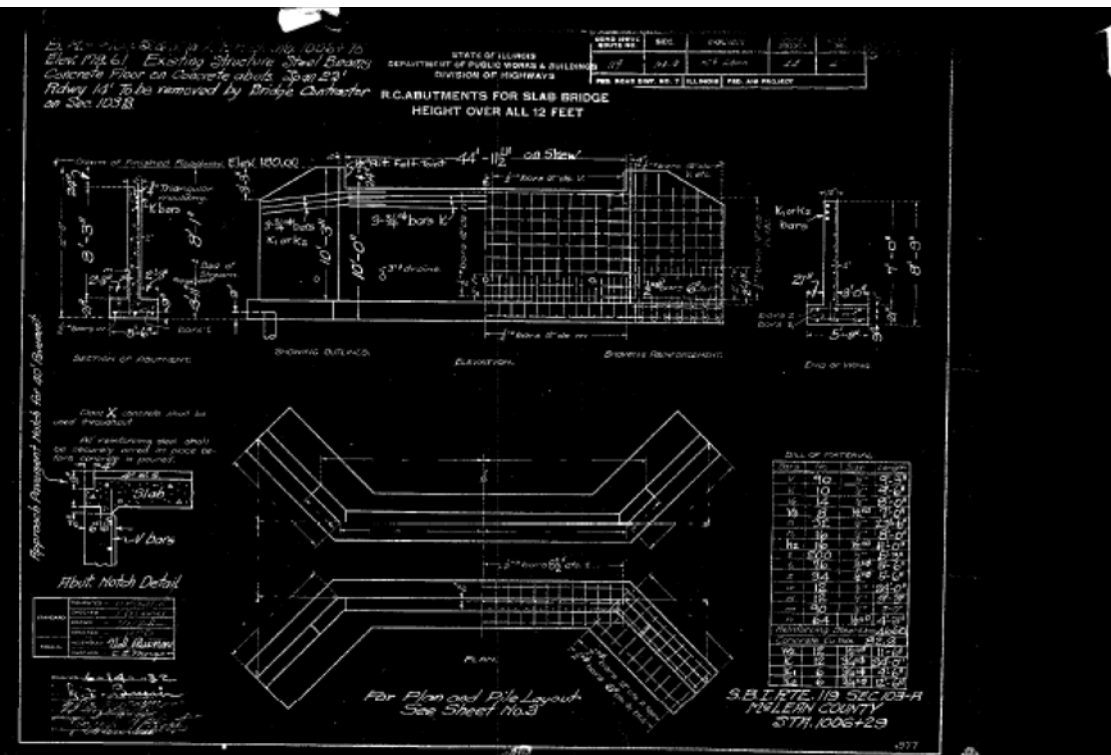
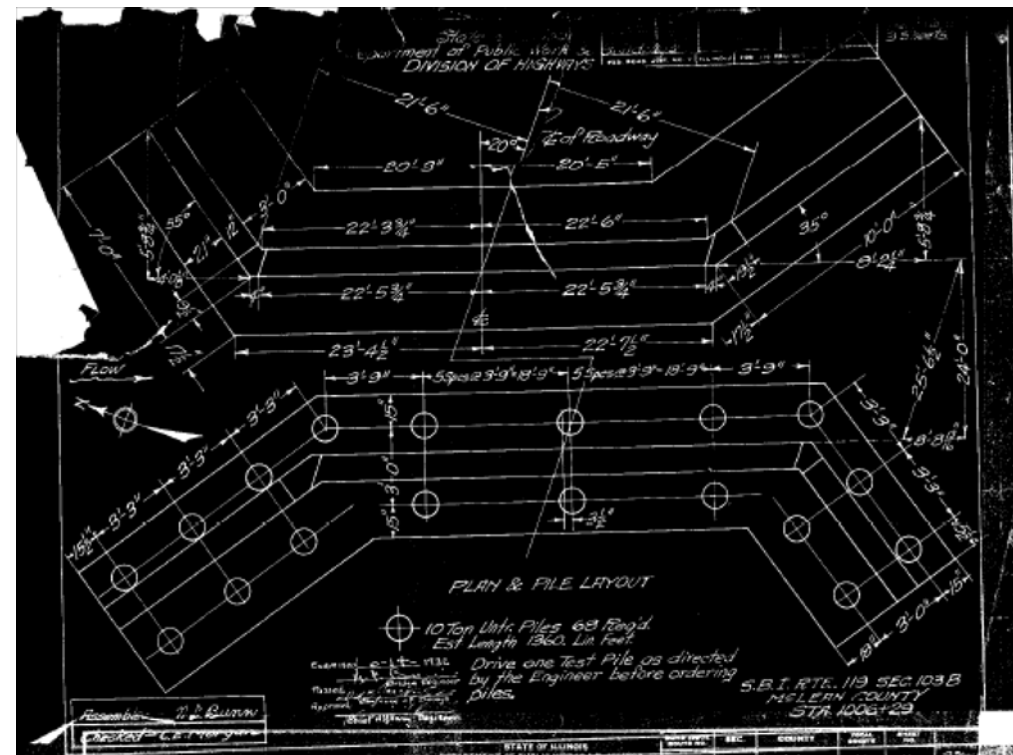
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\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WATERPROOFING MEMBRANE DETAIL
S.N. 057-0098**

SCALE: NONE SHEET 2 OF 2 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	38
CONTRACT NO. 70995				
ILLINOIS FED. AID PROJECT				

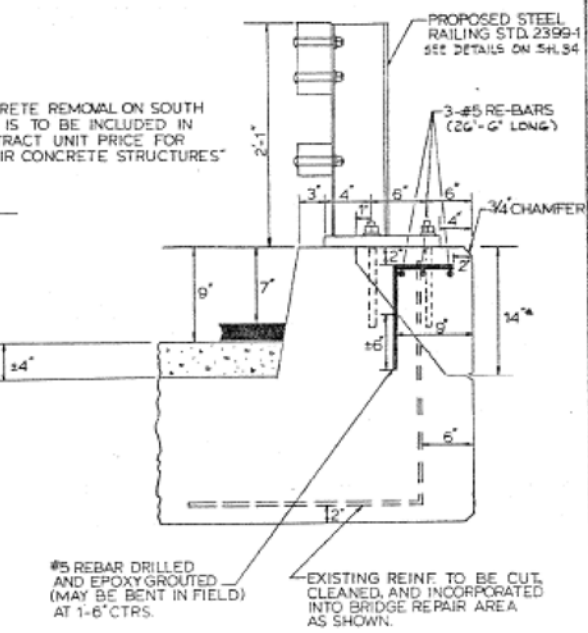
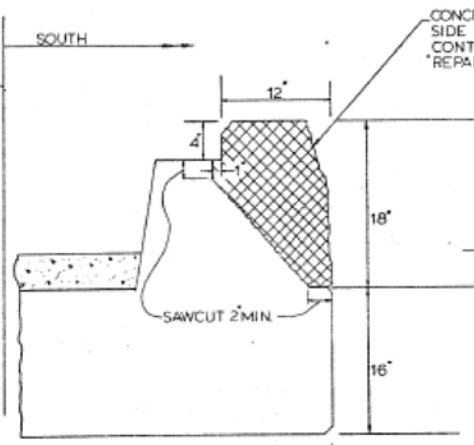
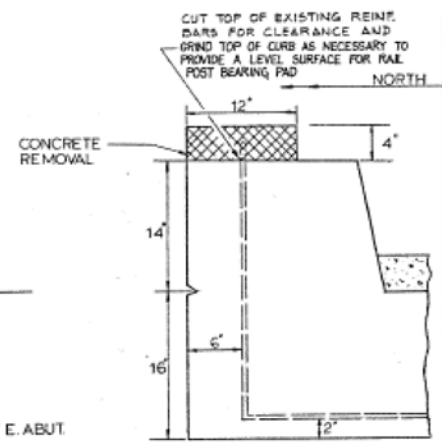
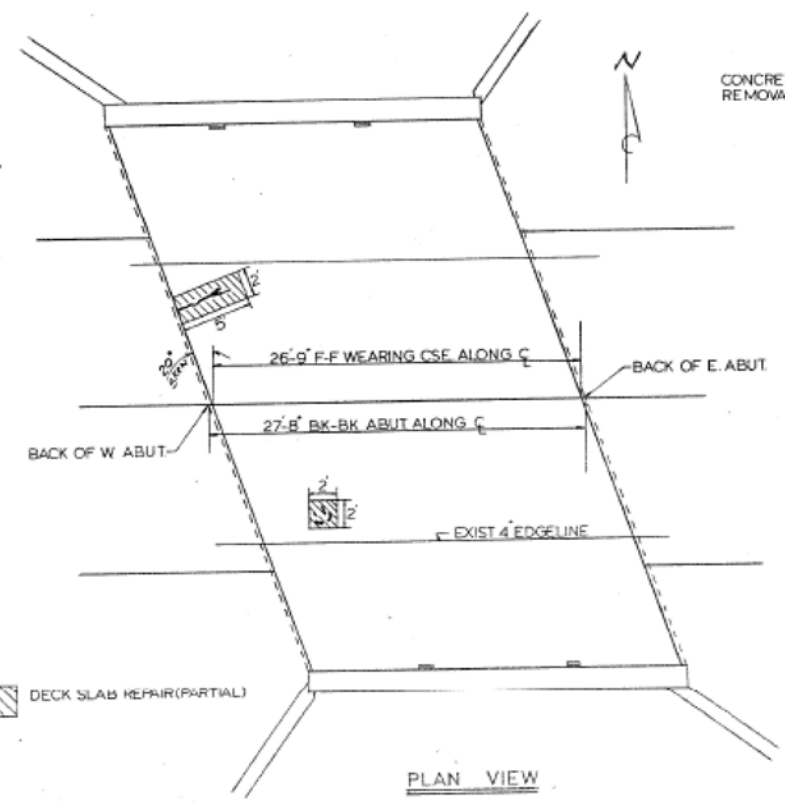
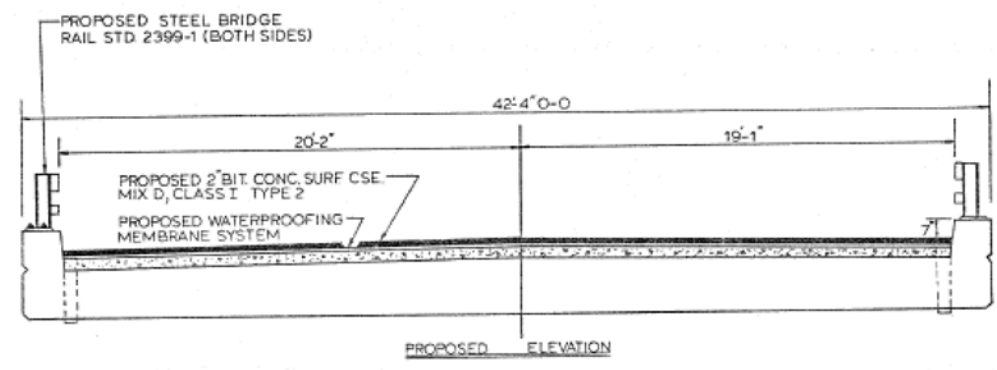
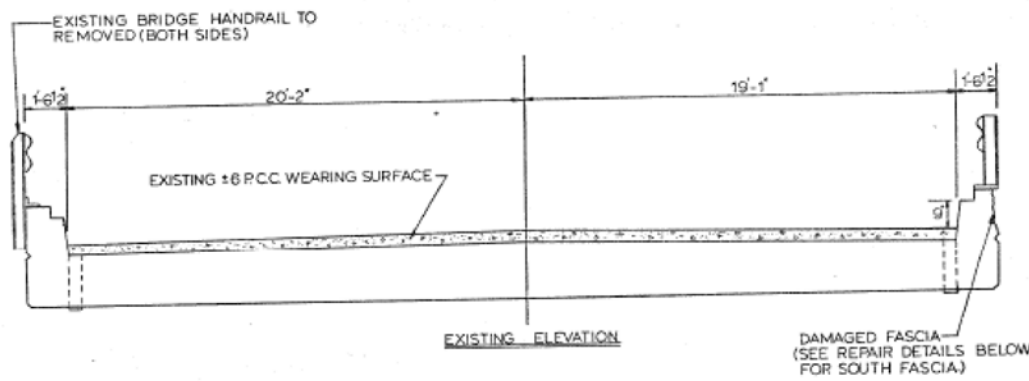


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\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -
	PLOT DATE = 12/8/2016		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS (INFORMATION ONLY)			
S.N. 057-0098			
SCALE: NONE	SHEET 1	OF 2 SHEETS	STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	39
CONTRACT NO. 70995				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIALS	
ITEM	QUANTITY
DECK SLAB REPAIR(PARTIAL)	2.0 SQYD
WATERPROOFING MEMBRANE SYSTEM	117.0 SQYD
BITUMINOUS CONC SURF CSE. MIX D, CLASS I	14.0 TONS
REPAIR CONCRETE STRUCTURES(SOUTH FASCIA)	30.0 SQFT
CONCRETE REMOVAL	0.50 CUYD
HANDRAIL REMOVAL	55.0 LINF
STEEL BRIDGE RAIL	55.0 LINF
TRAFFIC CONTROL & PROTECTION, STD 2304	10 L.SUM

VERTICAL PLANE: 14'-0" BK. TO BK. + 33.0 SQ.FT. SECTIONS OF EXISTING HUBGUARD ARE SOUND.

NOTE: ON NORTH HUBGUARD REMOVE EXISTING STEEL RAILING AND TOP 4" OF HUBGUARD AS SHOWN ABOVE. INSTALL NEW STEEL RAILING.

* ALL ITEMS OF WORK INCLUDING SAW CUTTING, CONCRETE REMOVAL, DRILLING, REBARS, EPOXY GROUT, EPOXY ADHESIVE AND CONCRETE ARE TO BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR REPAIR CONCRETE STRUCTURES. SEE SPECIAL PROVISIONS.

SEE DETAIL ON SHEET #25 FOR TREATMENT AT ABUTMENTS

BRIDGE REHABILITATION DETAILS S.N.057-0098

Revised: SME 2-8-85

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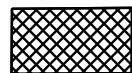
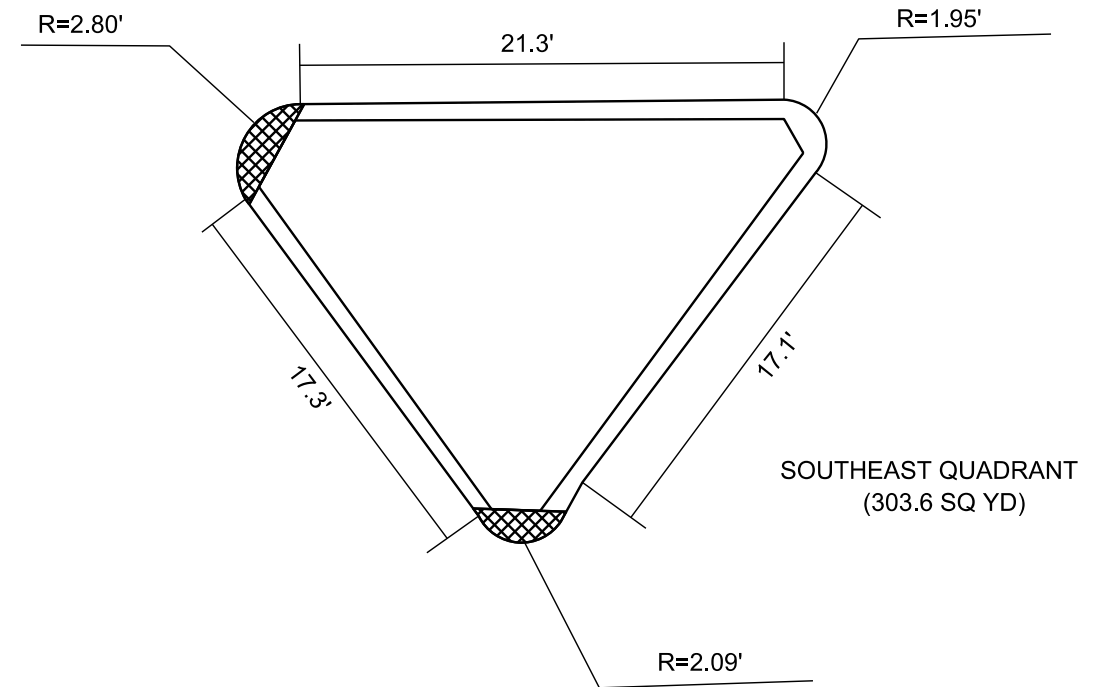
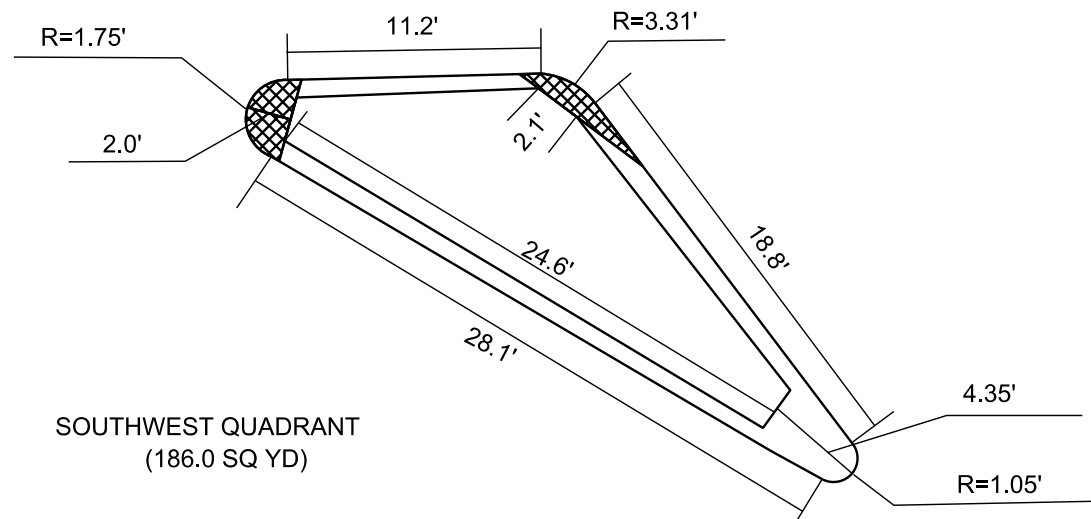
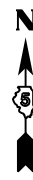
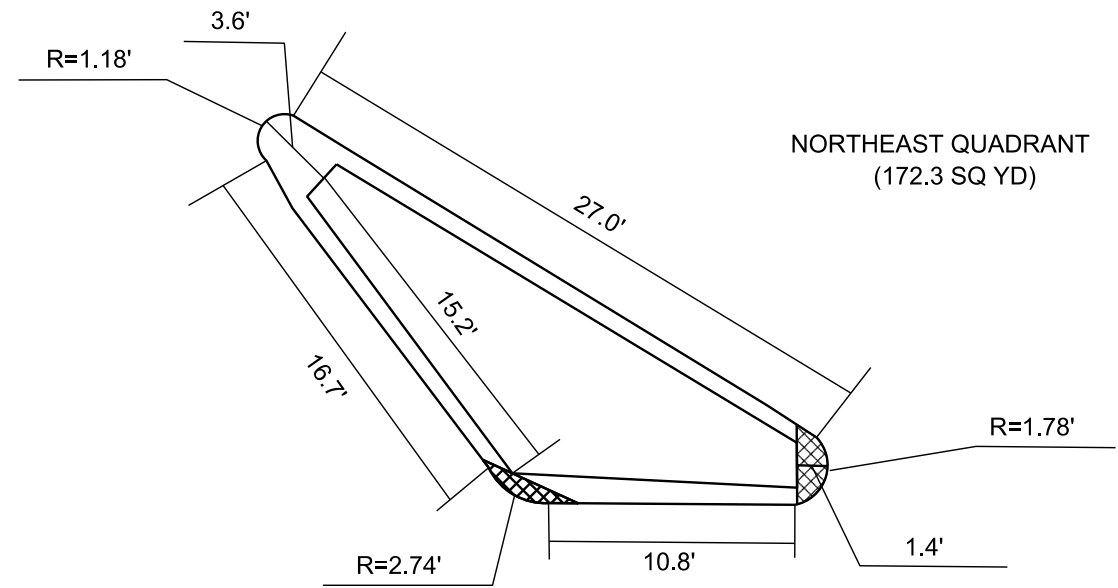
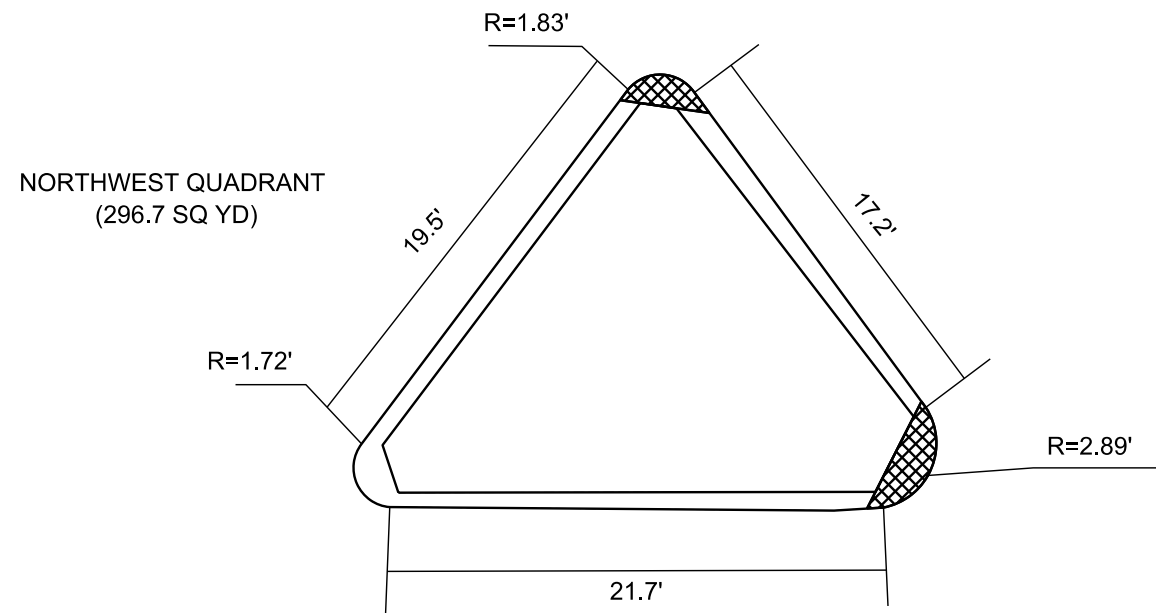
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS (INFORMATION ONLY)
 S.N. 057-0098

SCALE: NONE SHEET 2 OF 2 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	40
CONTRACT NO. 70995				
ILLINOIS FED. AID PROJECT				

DETAIL OF CONCRETE MEDIAN, TYPE SM-6.12
AT US 136 AND US 150



RAMP NOSE OF ISLAND, SEE HIGHWAY STANDARD 606301

FILE NAME =	USER NAME = LEROYMA	DESIGNED -	REVISED -
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\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/8/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

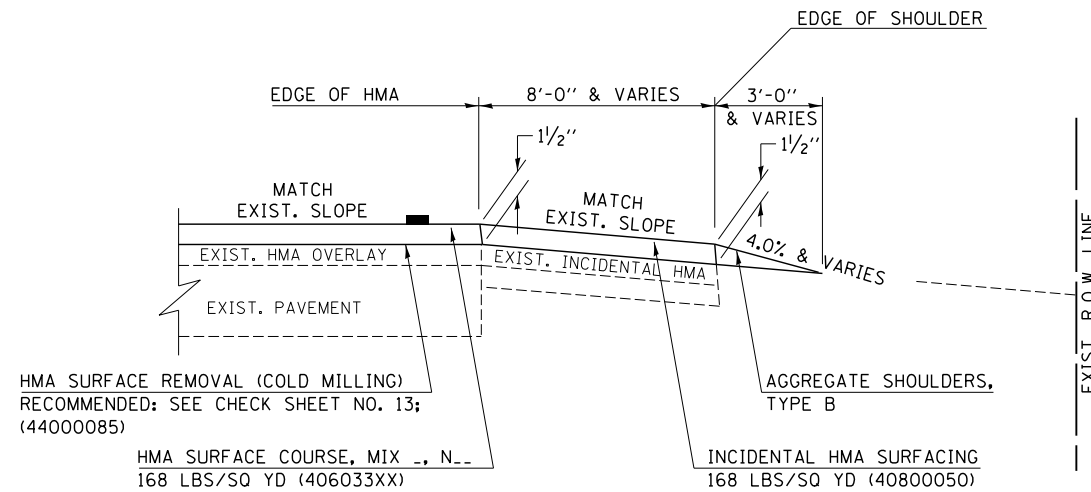
DETAIL OF CONCRETE MEDIAN
AT US 136 AND US 150

SCALE: SHEET OF SHEETS STA. TO STA.

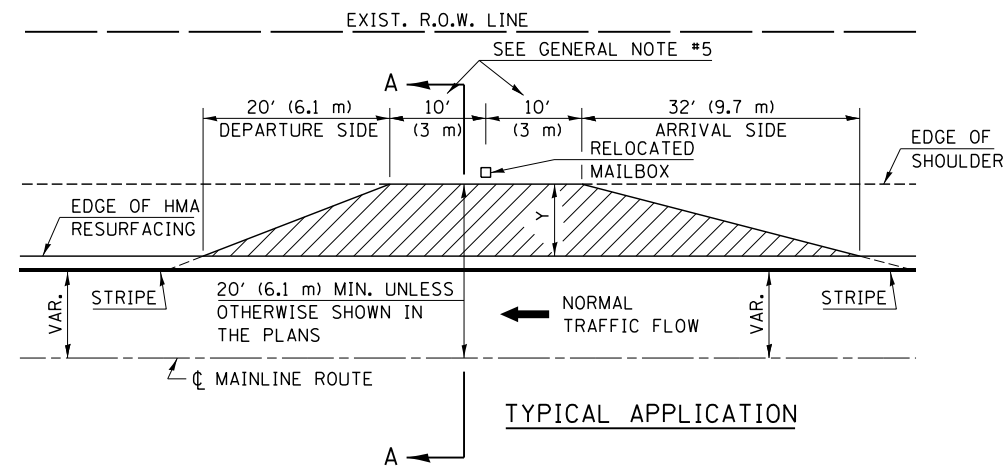
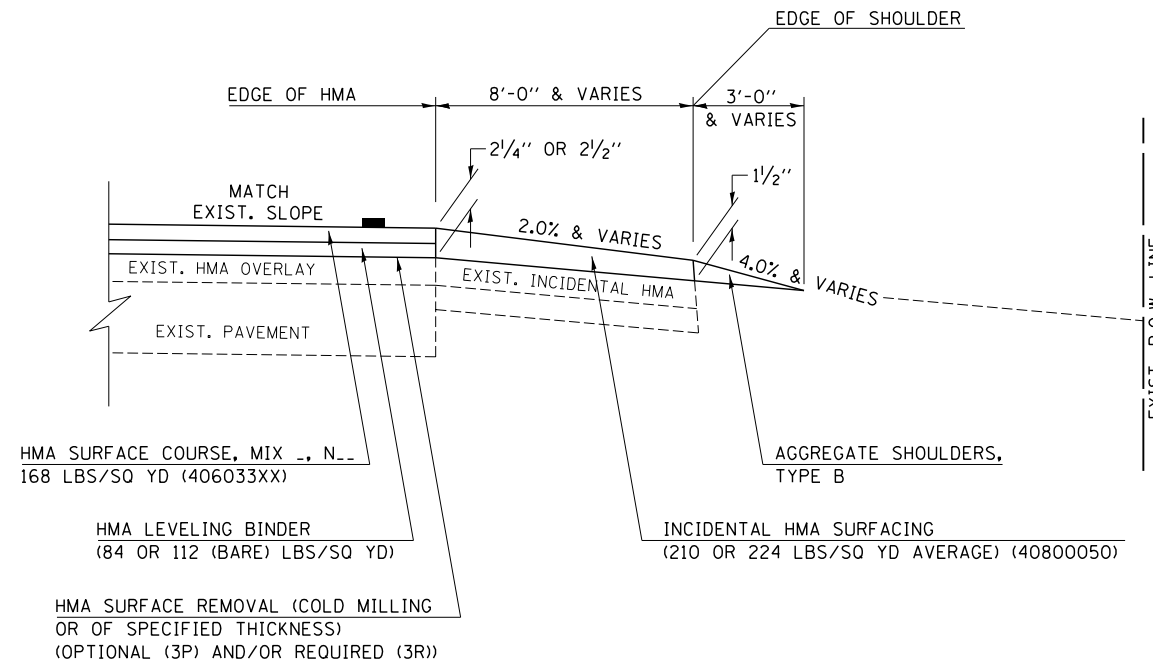
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	41
CONTRACT NO. 70995				
ILLINOIS FED. AID PROJECT				

PROJECTS WITHOUT RECONSTRUCTION

S.M.A.R.T. IMPROVEMENTS
(POLICY RESURFACING; BDE 53-4.03; 1 1/2")



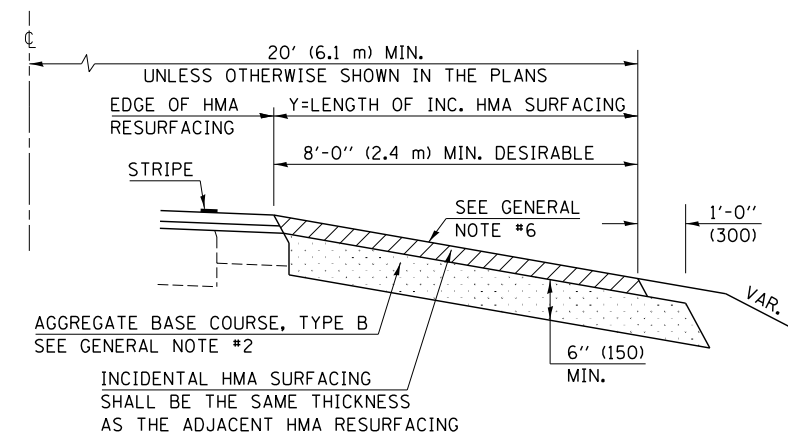
"3P" OR "3R" IMPROVEMENTS
(POLICY RESURFACING; BDE 53-4.02; 2 1/4" OR 2 1/2" ON BARE CONCRETE)



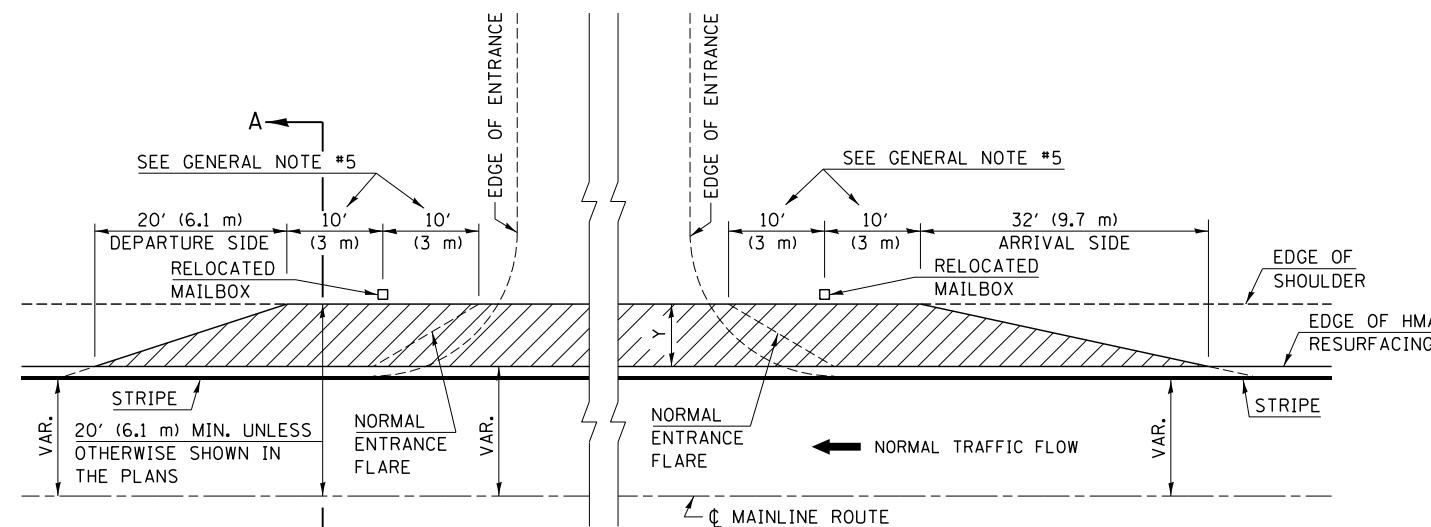
PROJECTS WITH RECONSTRUCTION

("3R" IMPROVEMENTS)

WIDTH OF SHOULDER	4'-0" - 8'-0" (1.2 m - 2.4 m)	10'-0" (3.0 m)
WIDTH OF TURNOUT "Y"	8'-0" (2.4 m)	8'-0" - 10'-0" (2.4 m - 3.0 m)



SECTION A-A



TYPICAL MAILBOX TURNOUT PLACEMENT
ADJACENT TO ENTRANCE

GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. AGGREGATE BASE COURSE, TYPE B, 6" (150) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED MAILBOX TURNOUTS. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ALL EXISTING MAILBOX TURNOUTS OR TO CONSTRUCT NEW MAILBOX TURNOUTS WHERE NONE NOW EXISTS.
3. ANY NECESSARY WORK BEHIND THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
4. THE TEMPORARY RELOCATION OF EXISTING MAILBOXES SHALL BE IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS.
5. WHEN MORE THAN ONE RELOCATED MAILBOX IS INCLUDED IN A PARTICULAR LOCATION THE TWO 10' (3 m) DIMENSIONS AS SHOWN ABOVE SHALL BE FROM THE END MAILBOX.
6. CROSS SLOPE SHALL BE AS SHOWN ON THE STATION CROSS SECTIONS AND/OR AS DIRECTED BY THE ENGINEER. MINIMUM 4% (1/2"/') DESIRABLE; MAXIMUM 8% (1"/').
7. WHEN MAILBOX TURNOUTS ARE CONSTRUCTED ADJACENT TO FIELD ENTRANCES, THE WIDTH OF THE INCIDENTAL HMA SURFACING CONSTRUCTED FOR THE FIELD ENTRANCE SHALL MATCH THE WIDTH OF THE PROPOSED MAILBOX TURNOUT SURFACING.
8. THE TOTAL SHOULDER WIDTH, 2.4 m (8') MINIMUM, SHALL BE PAVED BETWEEN SIDEROADS ENTRANCES AND/OR MAILBOX TURNOUTS AT LOCATIONS WHERE THE DISTANCE BETWEEN RADIUS OR TAPER CONTROL POINTS IS LESS THAN 15.0 m (50').
9. MAILBOXES SHALL BE MOUNTED SUCH THAT THE FACE OF THE MAILBOX IS 6" (150 mm) TO 12" (300 mm) AND THE POST A MINIMUM OF 24" (600 mm) FROM THE EDGE OF THE TURNOUT SURFACING.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 4080050B

FILE NAME =	USER NAME = LEROYMA	DESIGNED -	REVISED - 12/11/06 TJB
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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

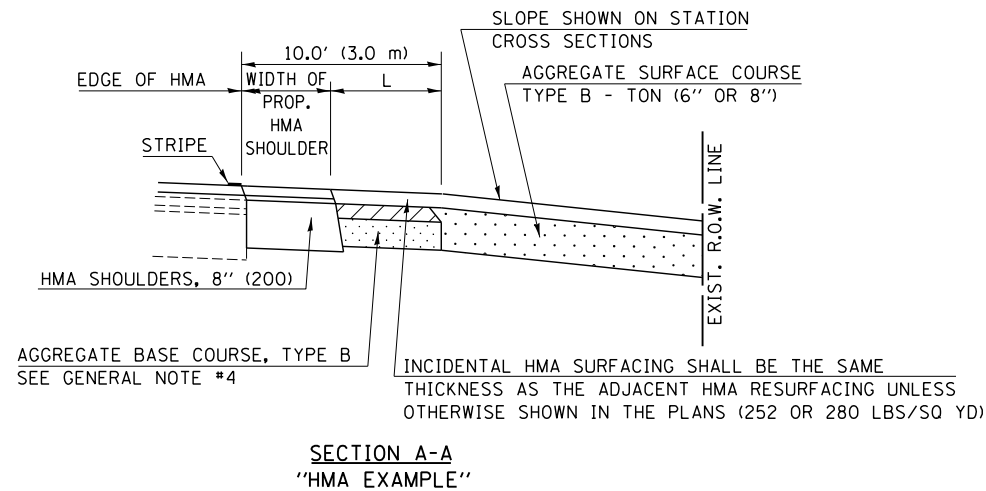
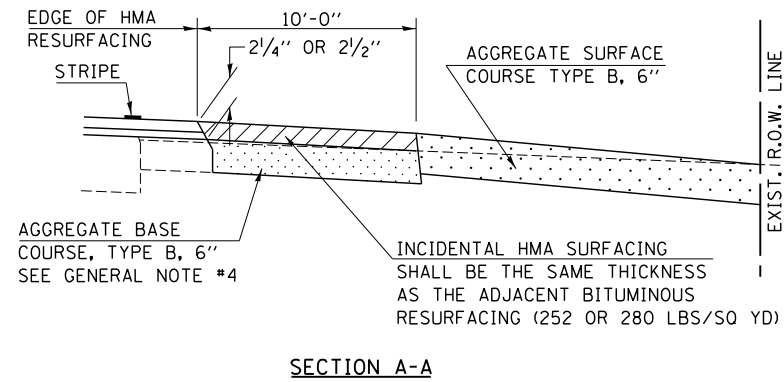
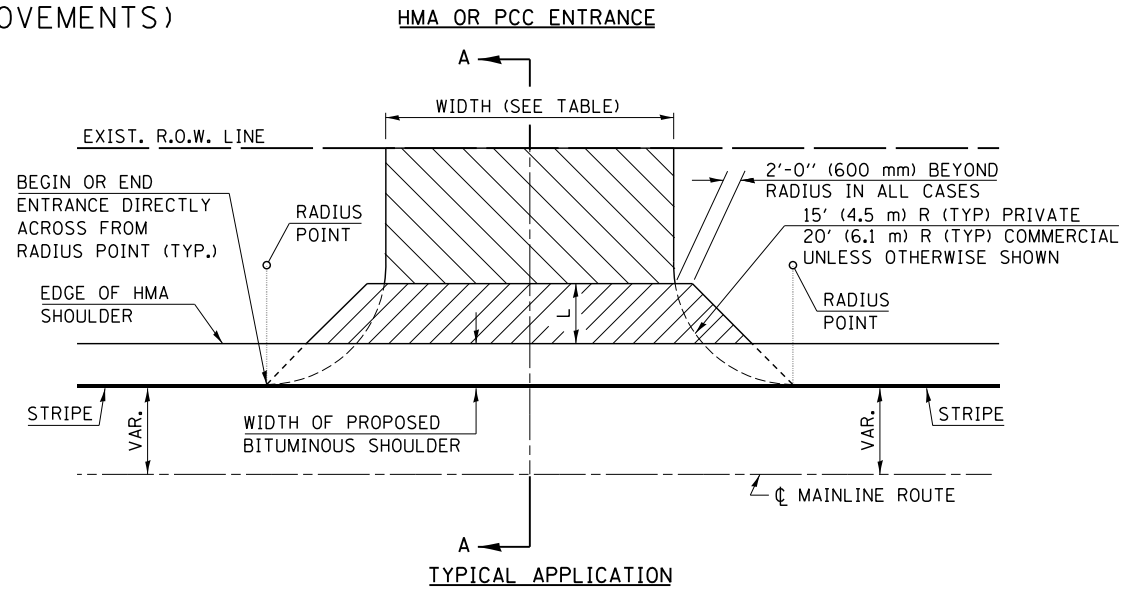
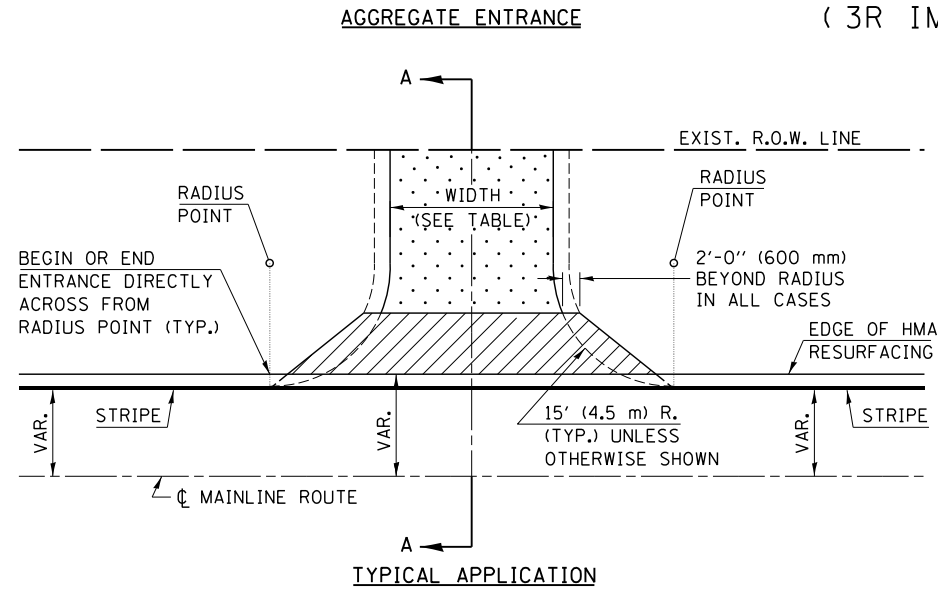
MAILBOX TURNOUT (RURAL)

SCALE: NA SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	43
CONTRACT NO. 70995				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROJECTS WITH RECONSTRUCTION

(3R IMPROVEMENTS)



GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
4. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
6. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".
7. TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 AND 40-11 ALONG WITH DISTRICT CONSTRUCTION MEMORANDUM 03/14 DISCUSS THIS PROCEDURE.

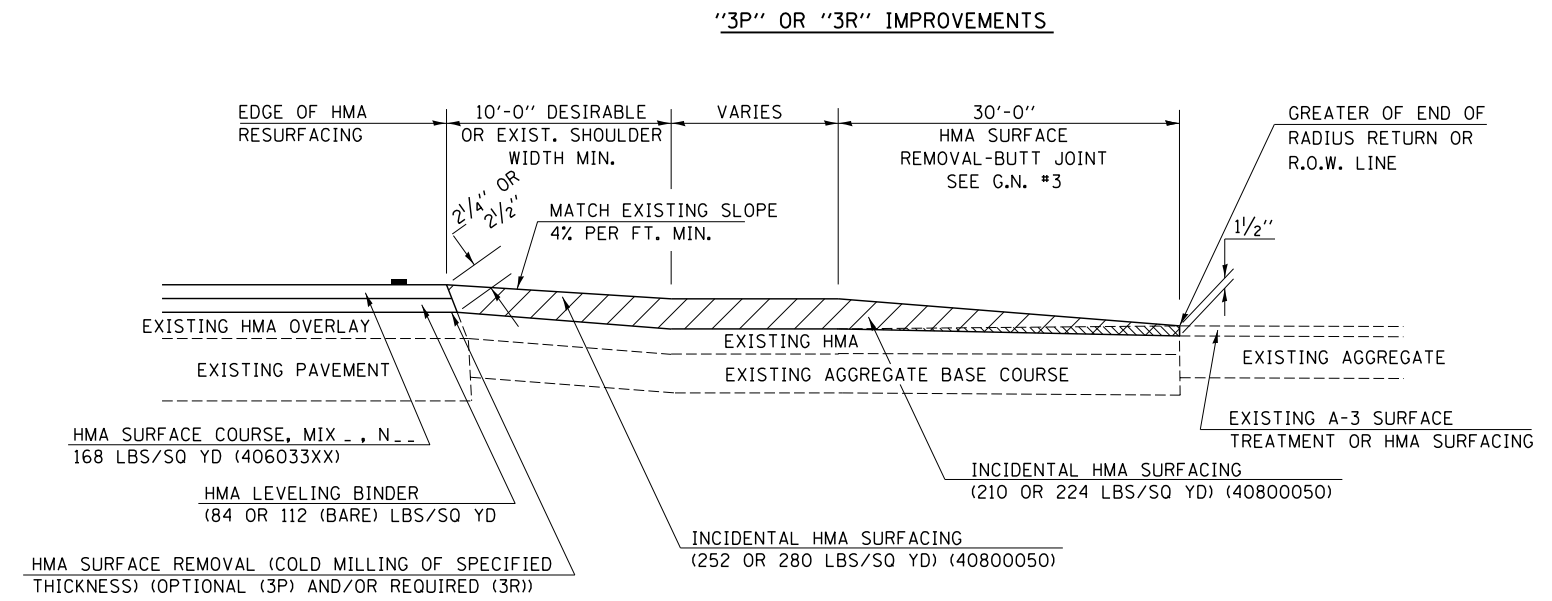
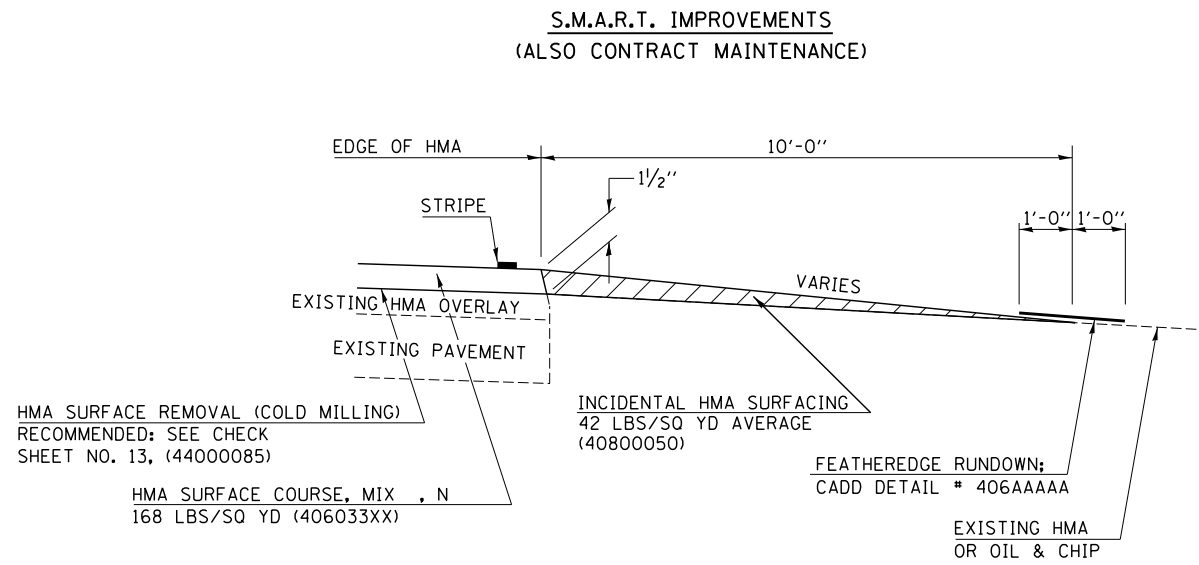
RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09)															
DESIGN ELEMENT	NEW CONSTRUCTION & 3R with RECONSTRUCTION									3R w/out RECONSTRUCTION, 3P, SMART & CM					
	NONCOMMERCIAL						COMMERCIAL			NONCOMMERCIAL			COMMERCIAL		
	PRIVATE & FIELD			FIELD W/ FARM IMPLEMENTS						PRIVATE & FIELD			COMMERCIAL		
	min.	des.	max.	min.	max.	min.	des.	max.	min.	des.	max.	min.	des.	max.	
SURFACE WIDTH (FT)	12, 16, 24, 24, 30						1 LANE, 1 WAY			1 LANE, 1 WAY					
							14, 16, 24								
RADIUS (FT)	15, 25, 40, 30						2 LANE, 2 WAY			2 LANE, 2 WAY					
							24, 30, 35								
SHOULDER WIDTH (FT)	2						1			resurface existing configuration; existing hma or pcc entrances shall have "butt joints" constructed; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them					
SHOULDER SLOPE (%)	2						2								
ENTRANCE GRADE (%)	0						0								
SIDE SLOPE (FT)	1:10						1:10								
SURFACE TYPE															
INCIDENTAL HMA SURFACING (INCH)	2						3 or 4			taper from hma resurfacing thickness (2 1/2", 2 1/4" or 1 1/2") to 1 1/2" for "butt joints" and to minimize aggregate shoulder					
AGGREGATE SURFACE COURSE, TYPE B (INCH)	6						8			if applicable use Items: Preparation of Base & Aggregate Base Repair; see PPM 30-02					
PCC DRIVEWAY PAVEMENT (INCH)	6									6 or 8					

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 4080050C

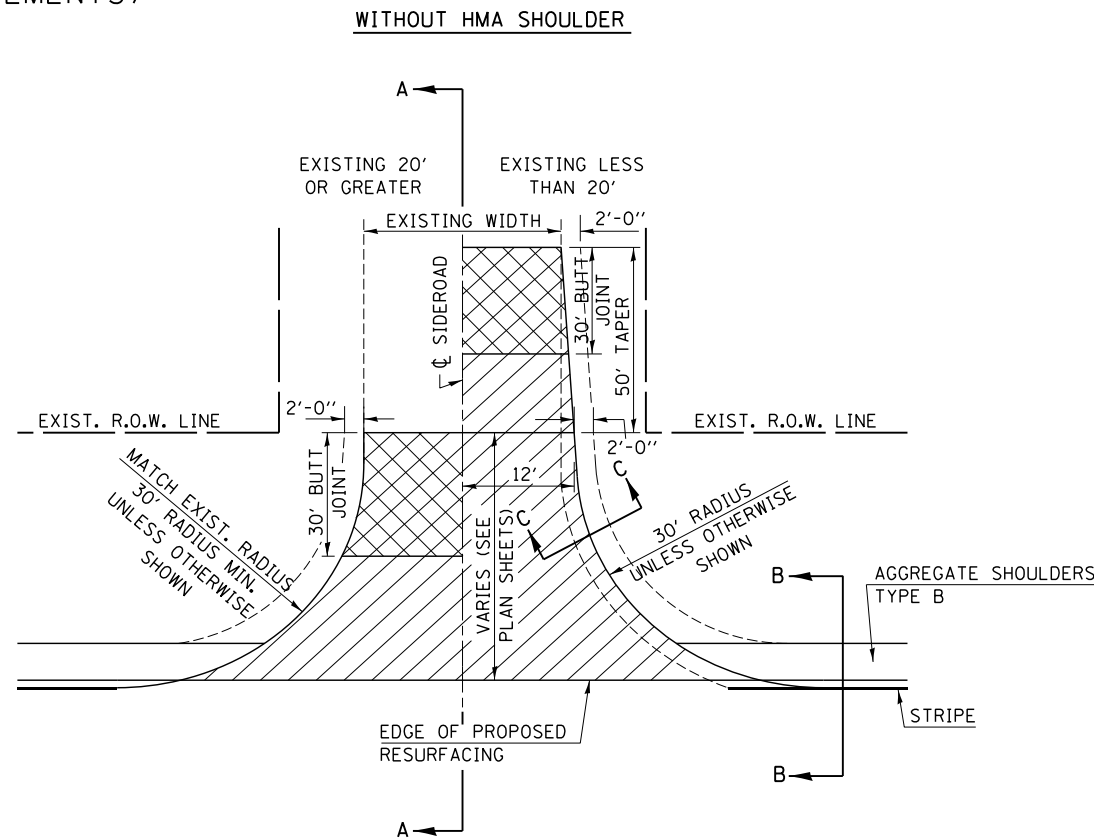
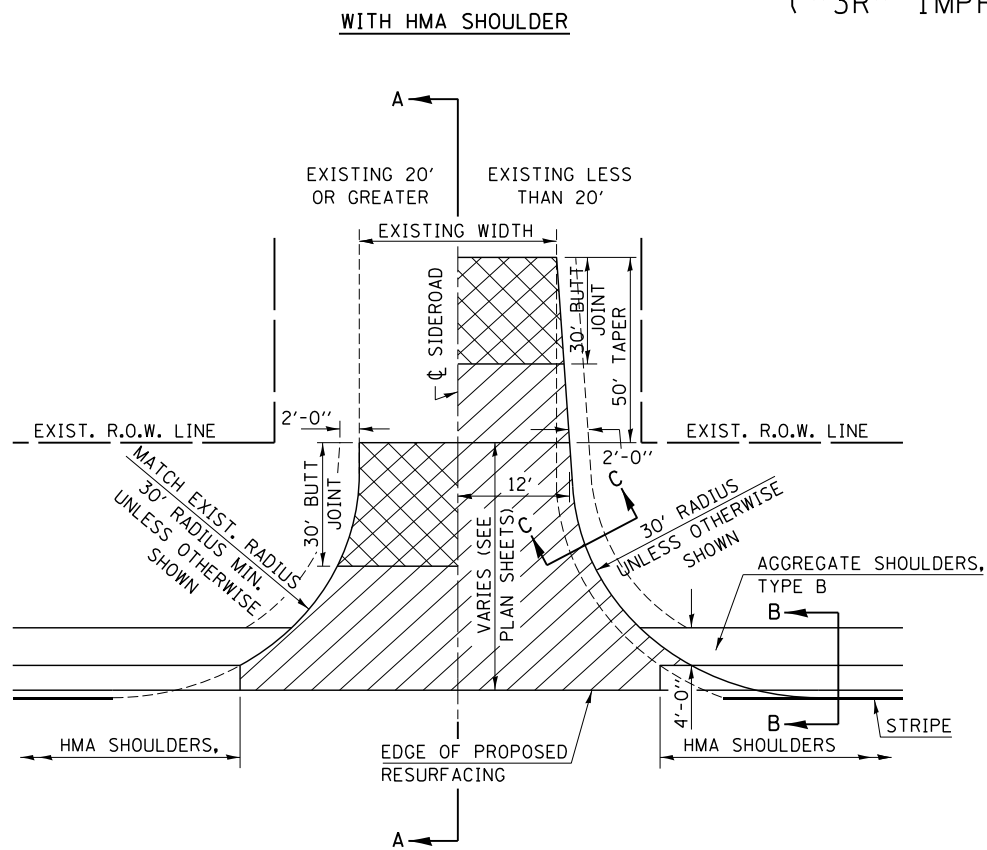
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				DEPARTMENT OF TRANSPORTATION	(NONCOMMERCIAL AND COMMERCIAL RURAL)	709	103RS-2	MCLEAN	55	45
						CONTRACT NO. 70995				
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROJECTS WITHOUT RECONSTRUCTION



PROJECTS WITH RECONSTRUCTION

("3R" IMPROVEMENTS)



GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS
2. PROPOSED SIDEROAD GRADES SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. MAJOR SIDEROAD/SIDESTREETS (>400 ADT) SHALL HAVE "BUTT JOINTS" CONSTRUCTED WHETHER THE EXISTING ENTRANCE IS HMA OR PCC. MINOR SIDEROAD/SIDESTREETS (<400 ADT) SHALL HAVE "FEATHEREDGE RUNDOWNS".
4. AGGREGATE BASE COURSE, TYPE B OF THE THICKNESS SPECIFIED IN THE PLANS 6" MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT 6" EXISTING BASE MATERIAL FOR THE PROPOSED SIDEROAD RETURNS. THIS MATERIAL SHALL BE USED TO WIDEN SIDEROAD RETURNS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 1' WIDER THAN THE SURFACE DIMENSIONS.
6. AGGREGATE SHOULDERS, TYPE B WILL BE WRAPPED AROUND THE SIDEROAD. TAPER WIDTH FROM 4' ALONG MAINLINE TO 2' AT BACK OF RETURN.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 408000AA

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		DATE -	REVISED -

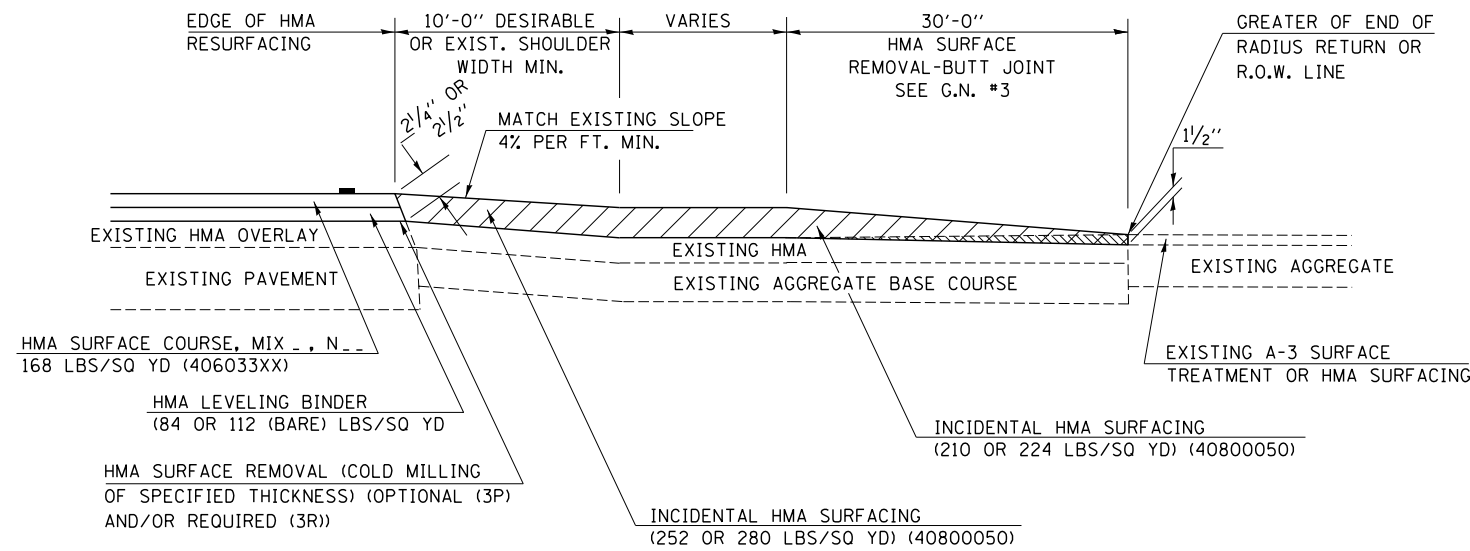
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEROADS & SIDESTREETS (RURAL)

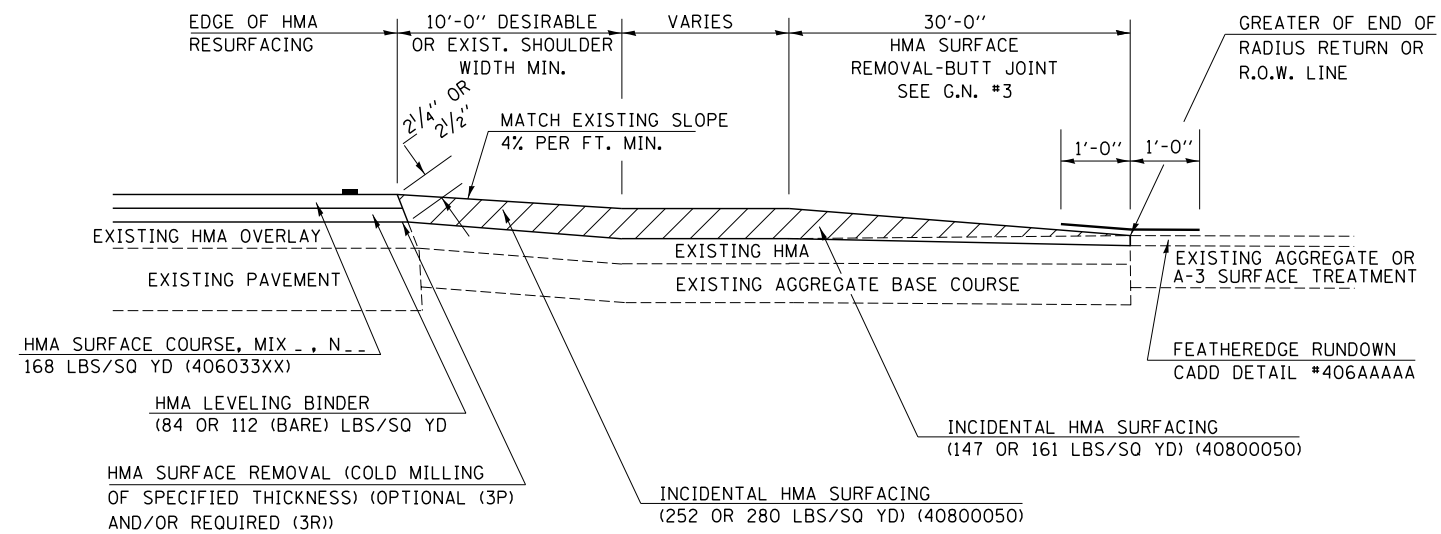
SCALE: NA SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	46
CONTRACT NO. 70995				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

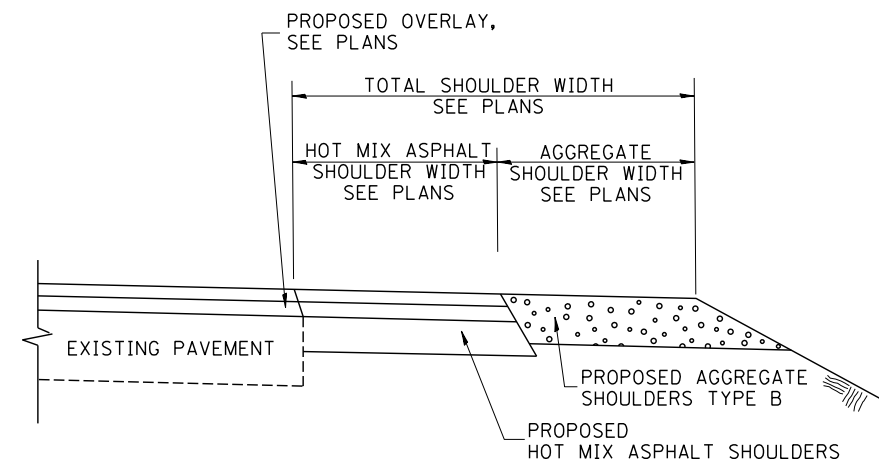
SECTION A-A
EXISTING HMA OR PCC SIDEROAD (>400 ADT)



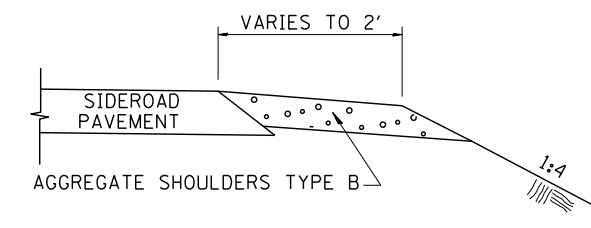
SECTION A-A
EXISTING AGGREGATE OR SEAL COAT SIDEROAD (<400 ADT)



RURAL SIDEROAD DESIGN STANDARDS (PPM 40-06)									
DESIGN ELEMENT	New Construction & 3R (Existing Width Less Than 20 ft)			3R (Existing Width 20 ft or Greater) & 3P			SMART & Contract Maintenance		
	min.	des.	max.	min.	des.	max.	min.	des.	max.
SURFACE WIDTH (FT); (measured at end of radius or row line; greatest distance from edge of traveled way)	24	24	Coordinate with Geometrics Engineer	resurface existing configuration to completion of radius return or row line; greatest distance from edge of traveled way; major sideroads (> 400 adt) shall have "butt joints" constructed whether the entrance is hma or pcc; minor sideroads (< 400 adt) shall have "featheredge rundown" as shown in district cadd detail 406AAAAA					
RADIUS (FT)	30	30		resurface existing configuration with the completion of a 10 ft. featheredge rundown for ALL sideroads as shown in district cadd detail 406AAAAA					
SHOULDER WIDTH (FT)	4	8	10						
SHOULDER SLOPE (%)	2	4	12						
ENTRANCE GRADE (%)	1	1 to 4	4						
BREAKOVER (%)	0	5	10						
SIDE SLOPE	1:10	1:6	1:4						
INTERSECTION ANGLE	60	75 to 90							
SURFACE TYPE									
INCIDENTAL HMA SURFACING (INCH)	4			taper from 2 1/4" to 1 1/2" or featheredge			taper from 1 1/2" to featheredge		
AGGREGATE BASE COURSE, TYPE A (INCH)	8	4		if applicable use item: 35800100 Preparation of Base					
PCC PAVEMENT (INCH)		8							



SECTION B-B
MAINLINE SHOULDER TREATMENT



SECTION C-C
SIDEROAD SHOULDER TREATMENT

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 408000AA

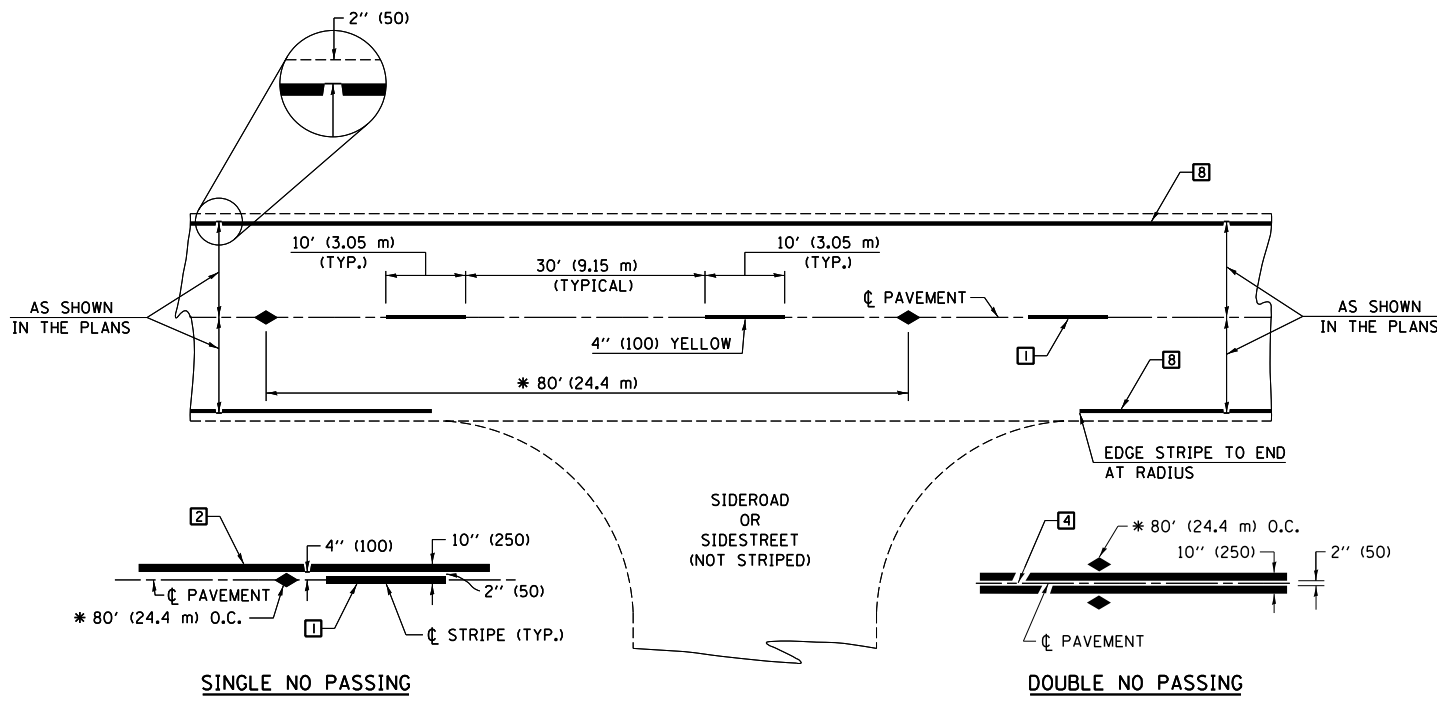
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		CHECKED -	REVISED - 12/21/09 KJT
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEROADS & SIDESTREETS (RURAL)

SCALE: NA SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	47
CONTRACT NO. 70995				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

TWO LANE/TWO WAY

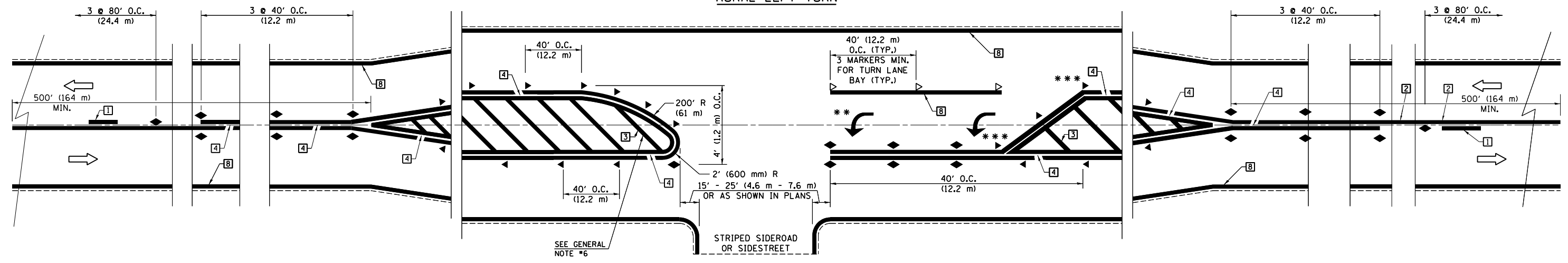
TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = LEROYMA	DESIGNED -	REVISED - 11/06
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		DATE -	REVISED -

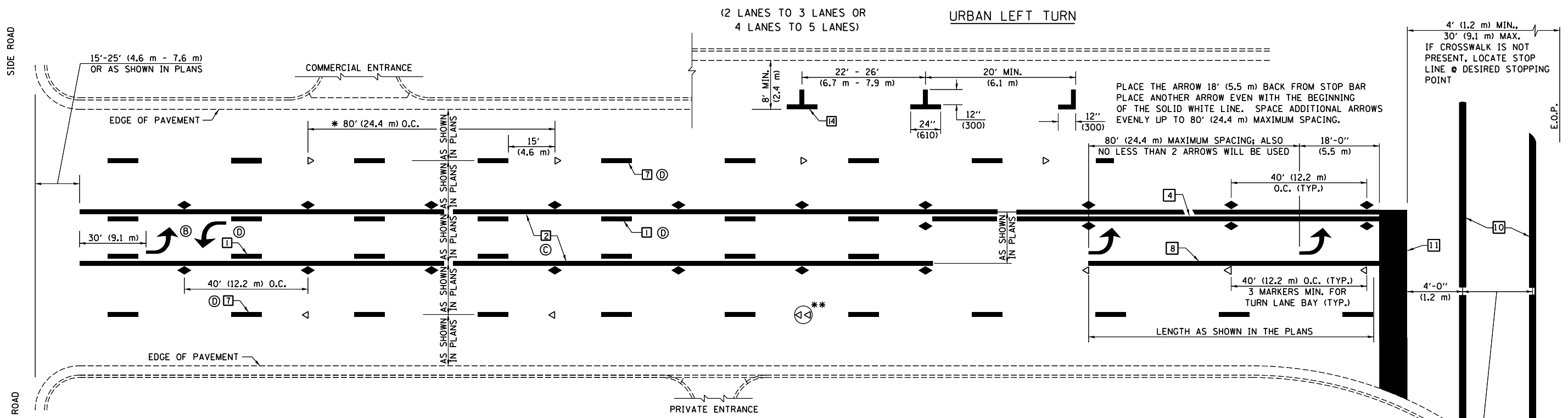
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

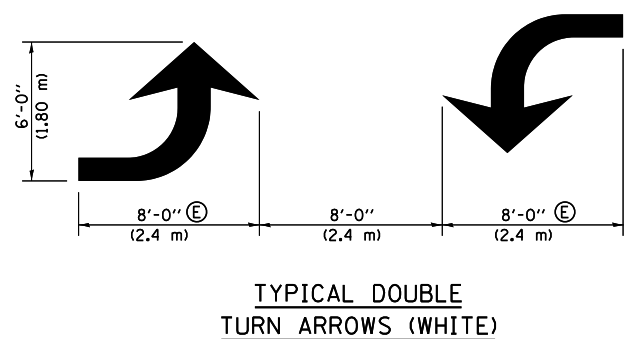
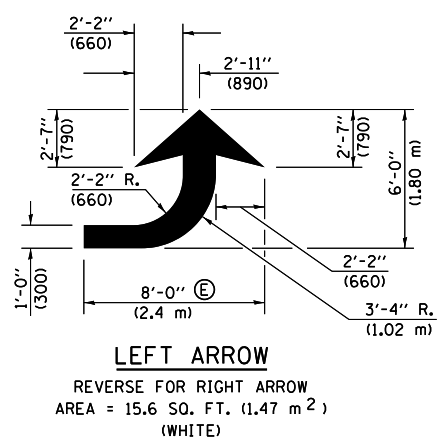
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709	103RS-2	MCLEAN	55	49
CONTRACT NO. 70995				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



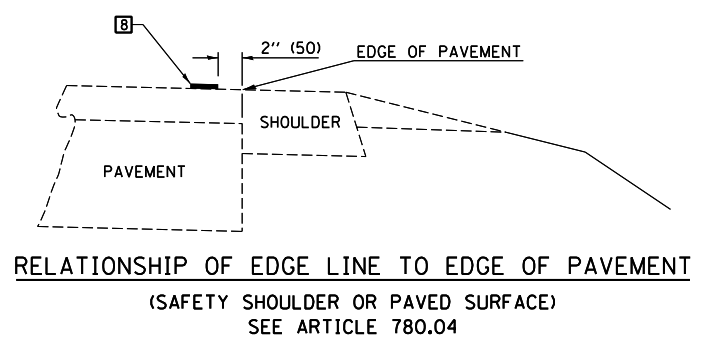
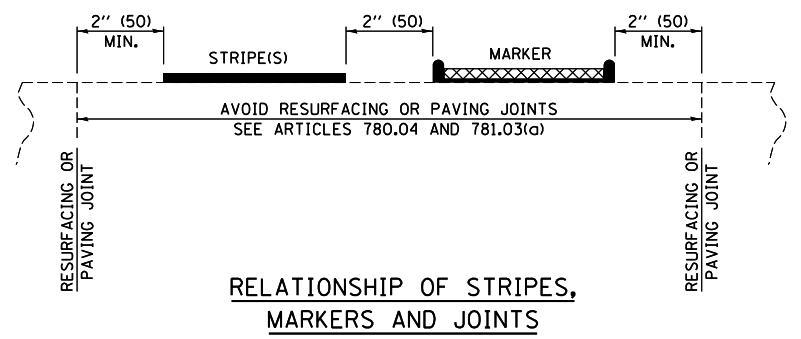
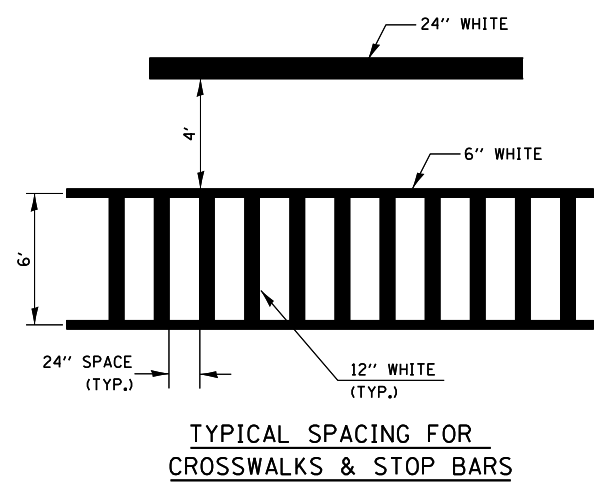
* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

- GENERAL NOTES:**
- (B) TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
 - (C) THE SOLID YELLOW PAVEMENT MARKINGS (2) SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
 - (D) THE SKIP-DASH PAVEMENT MARKINGS (1) OR (7) SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
 - (E) USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



BLOOMINGTON-NORMAL CITY LIMITS ONLY



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAA

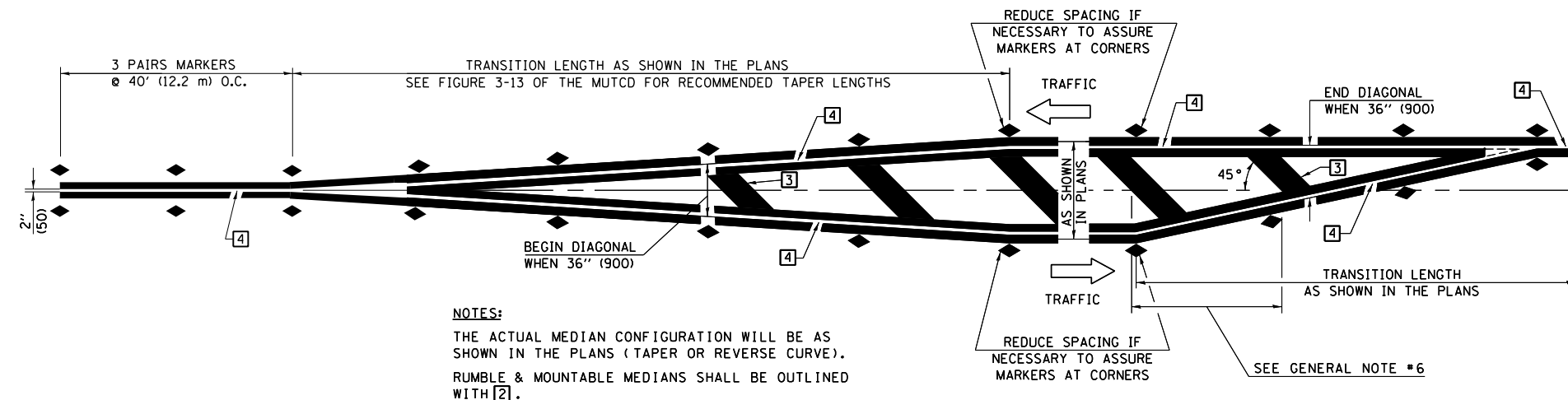
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	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	50
CONTRACT NO. 70995				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

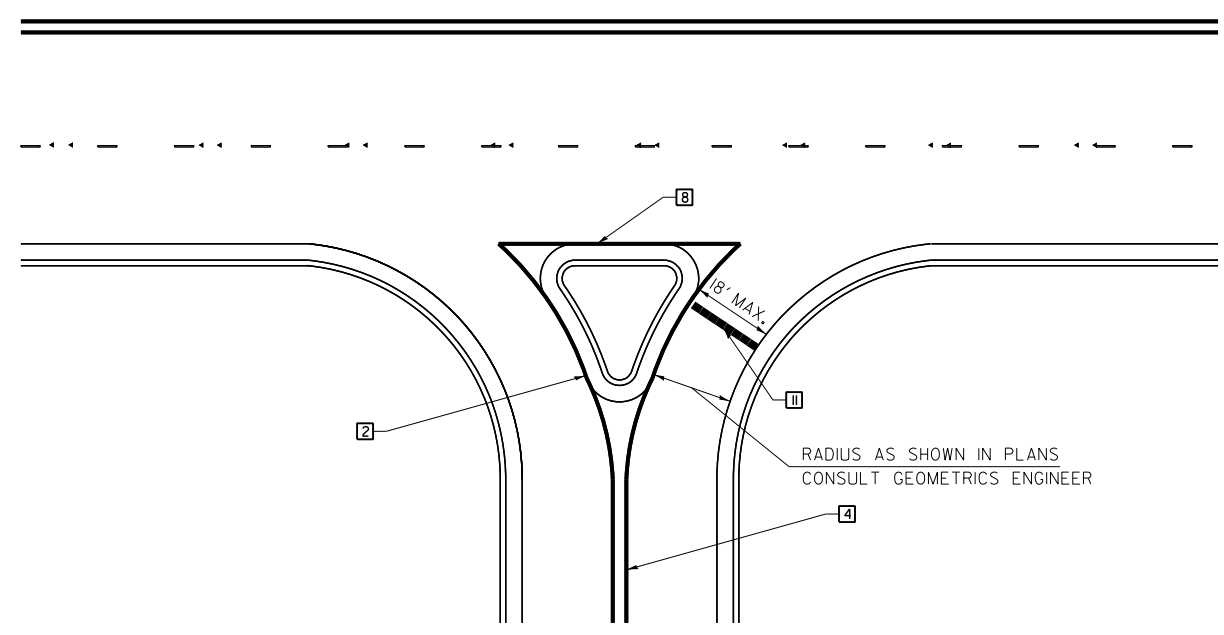


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

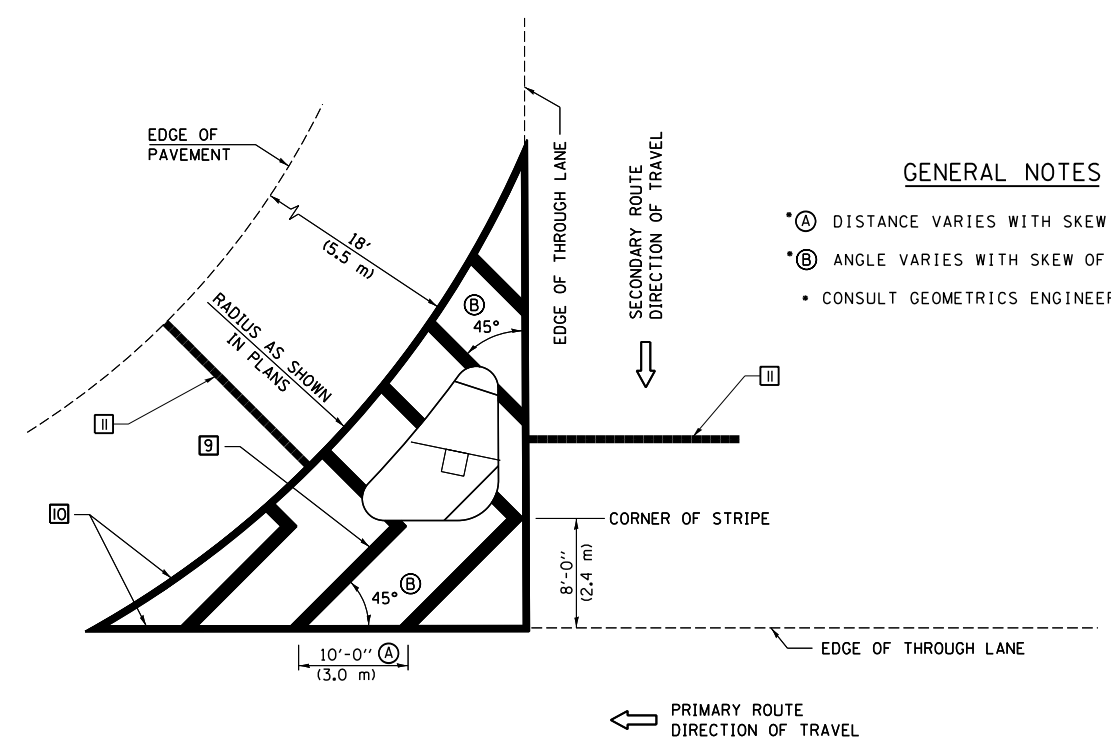
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- (B) ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

ISLAND

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = LEROYMA	DESIGNED -	REVISED - 11/06
pw:\IL\084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 5\Projects\0579\Drawings\057995-shr-details.dwg		DRAWN -	REVISED - 09/2009 - KJT
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	PLOT DATE = 12/8/2016	DATE -	REVISED -

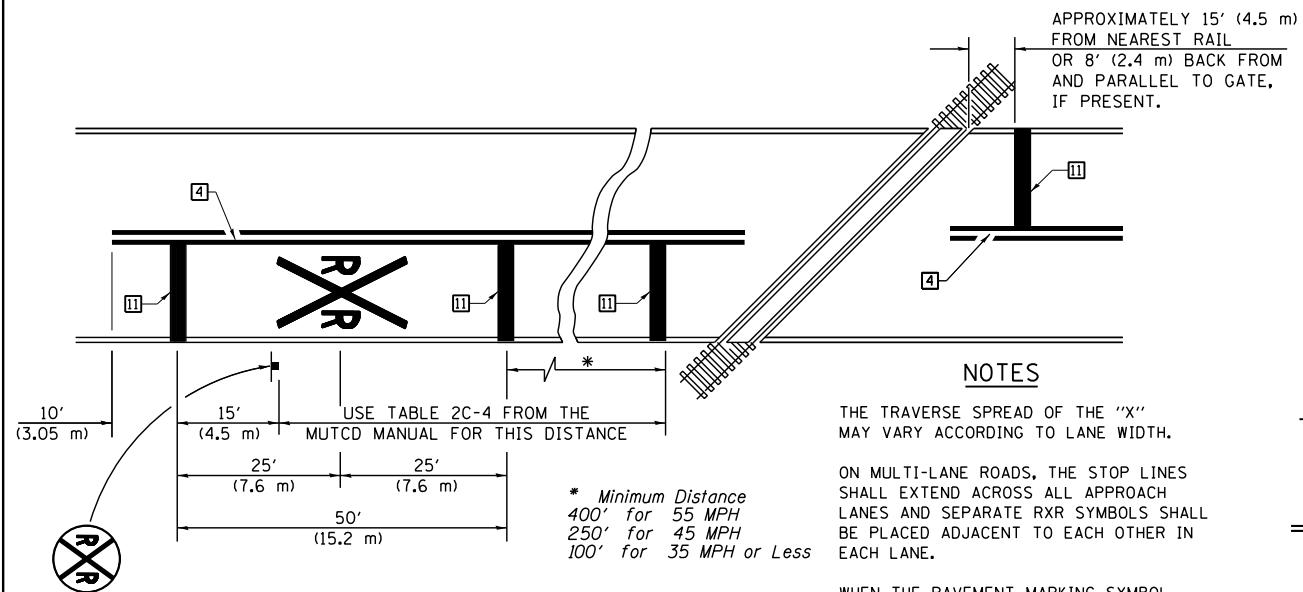
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	51
CONTRACT NO. 70993				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

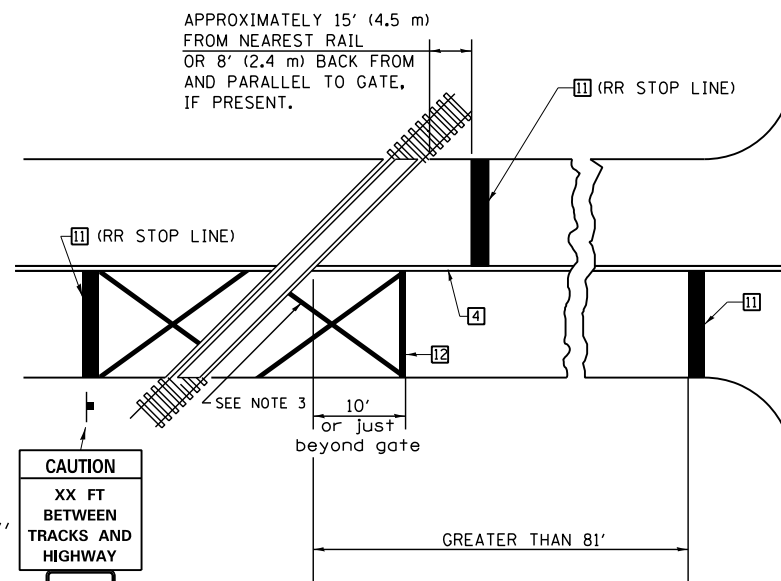
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

RAILROAD CROSSING WITH INTERCONNECT ONLY



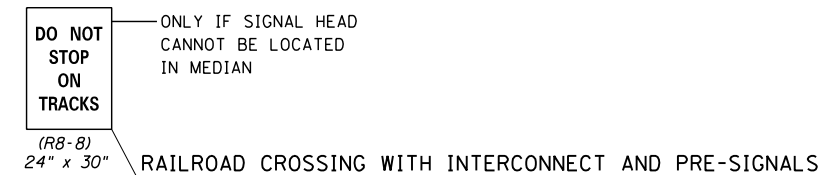
W10-1100
30" X 36"

CAUTION
XX FT
BETWEEN
TRACKS AND
HIGHWAY

DO NOT
STOP
ON
TRACKS

R8-8
24" X 30"

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING



DO NOT STOP ON TRACKS
R8-8
24" X 30"

STOP HERE ON RED
R10-6(L)
24" X 30"

NO TURN ON RED
R10-11
24" X 30"

STOP HERE ON RED
R10-6(R)
24" X 30"

IF IN MEDIAN

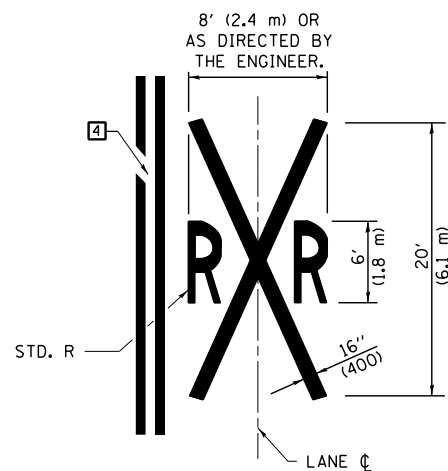
NO TURN ON RED
R10-11
24" X 30"

DO NOT STOP ON TRACKS
R8-8
24" X 30"

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
- XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.



ALTERNATE SIGNS

STOP HERE ON RED
R10-6a(L)
24" X 30"

STOP HERE ON RED
R10-6a(R)
24" X 30"

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pw:\IL\084EBIDINTEG.11\inois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0579\Drawings\Design\057995-shr-details.dwg		DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 04/14 - JLA
	PLOT DATE = 12/8/2016	DATE -	REVISED -

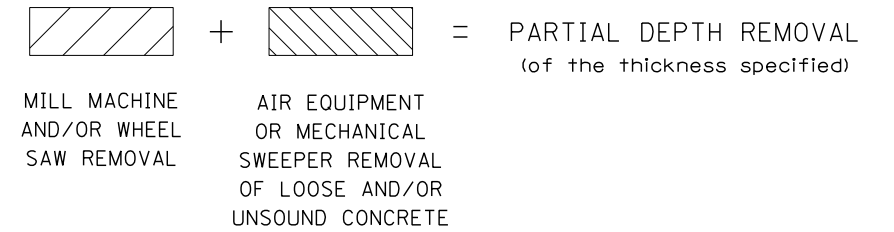
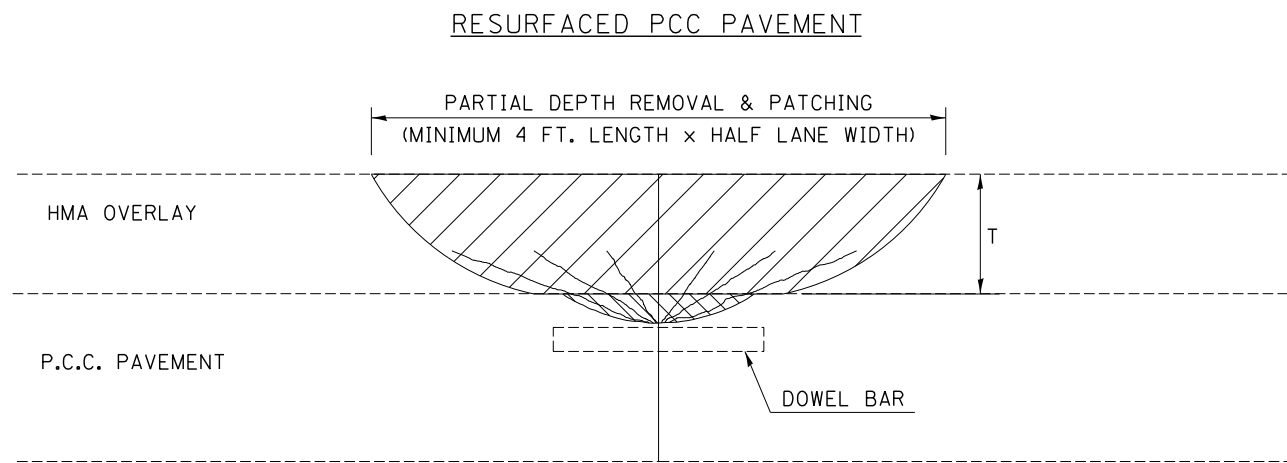
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	52
CONTRACT NO. 70995				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



GENERAL NOTES

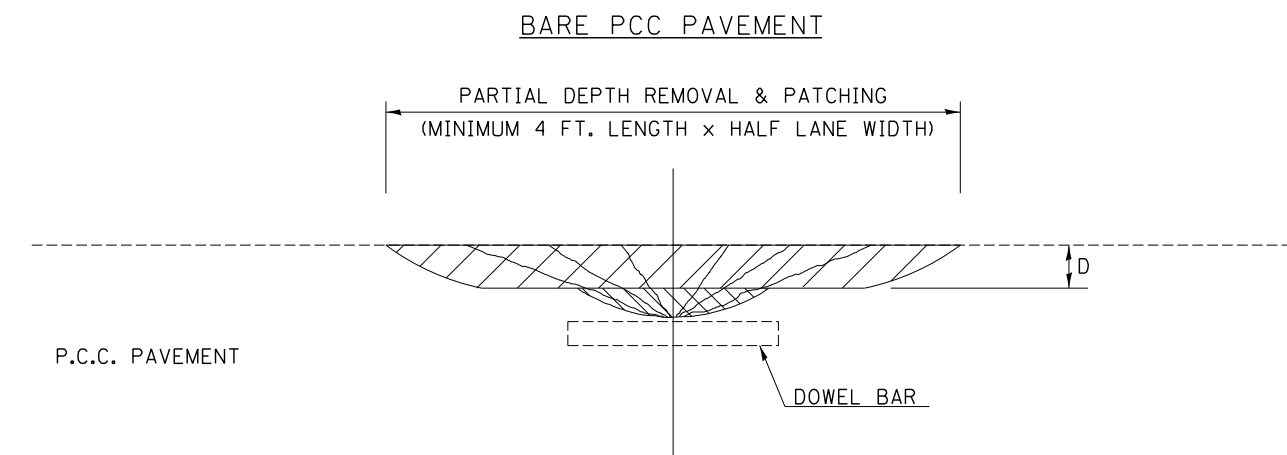
ALL VOLUME OF PARTIAL DEPTH REMOVAL SHALL BE REPLACED WITH HOT-MIX ASPHALT (HMA) AND PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR PARTIAL DEPTH PATCHING.

T = THICKNESS OF HMA OVERLAY(S). SEE EXISTING TYPICAL CROSS SECTION.

GENERAL NOTE 406H SHALL INCLUDE MIXTURE REQUIREMENTS FOR PARTIAL DEPTH PATCHING.

HMA REPLACEMENT IN RESURFACED PCC PAVEMENT LOCATIONS SHALL BE ACCORDING TO SECTION 406 OF THE STANDARD SPECIFICATIONS.

TRANSVERSE CONTRACTION JOINT SHOWN - OTHER LOCATIONS SIMILAR.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. XX442100

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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

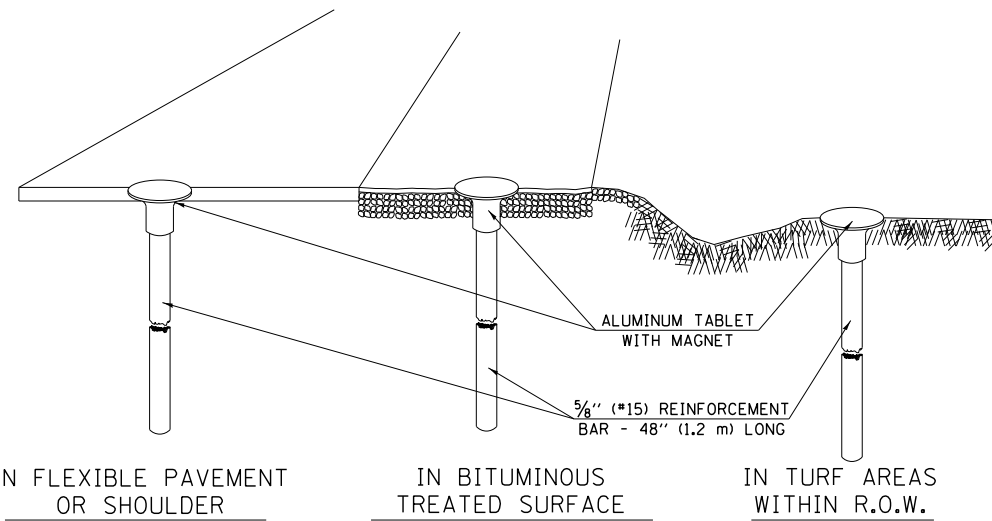
PCC PARTIAL DEPTH HOT-MIX ASPHALT PATCHING

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	53
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70995	

XZ193300 – SURVEY MARKER, TYPE 1 (SPECIAL)

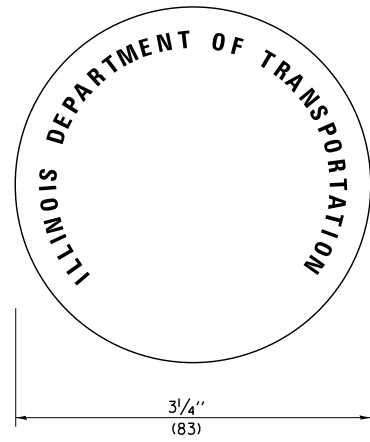
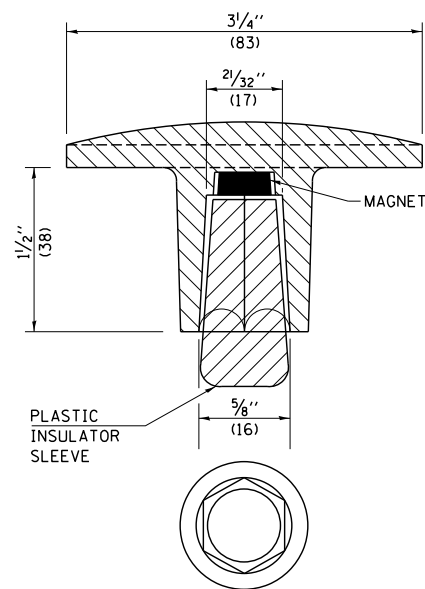
TO BE INSTALLED IN FLEXIBLE PAVEMENT OR SHOULDER, BITUMINOUS TREATED SURFACE AND TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



IN FLEXIBLE PAVEMENT OR SHOULDER

IN BITUMINOUS TREATED SURFACE

IN TURF AREAS WITHIN R.O.W.



THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. THE CONTRACT UNIT PRICE, EACH, FOR SURVEY MARKER, TYPE 1 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE REINFORCEMENT BAR AND ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE.
2. ALL SURVEY MARKERS, TYPE 1 (SPECIAL) SHALL BE PLACED $\pm 1/4"$ (6 mm) BELOW THE FINAL SURFACE.
3. WHEN THE TABLET AND REBAR ARE PLACED AS PART OF A SURVEY MARKER VAULT, THEY SHALL BE CONSIDERED AS INCLUDED IN THAT PAY ITEM AND THERE WILL BE NO PAYMENT FOR THE SURVEY MARKER, TYPE 1 (SPECIAL).

SPECIFICATIONS FOR ALUMINUM TABLET

SURVEY CAP FOR REBAR. $3/4"$ (83 mm) CONVEX SURVEY CAP FOR $5/8"$ (15 mm) REBAR WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF $1/32"$ (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM CAP FOR REBAR SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM CAP FOR REBAR SHALL BE TAPERED FOR A PERFECT COMPRESSION FIT. A SPECIAL PLASTIC INSULATOR SHALL BE INSTALLED TO PREVENT DISSIMILAR METAL CONTACT AND CORROSION. THE PLASTIC INSULATOR SHALL FORM READILY TO THE OUTER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE ALUMINUM CAP SOCKET. THE PLASTIC INSULATOR SHALL BE LOW DENSITY POLYETHYLENE, A MINIMUM $1/2"$ (38 mm) LONG AND CONFORM TO FEDERAL SPECIFICATION L-P 390.

COMPOSITION: ALUMINUM 98.3-98.7%; OTHER 1.3-1.7%; STRENGTH: YIELD 28 KSI (193 MPa), ULTIMATE 32 KSI (221 MPa). ELONGATION 15% [IN 2" (50 mm)]. SPECIFICATIONS: ALUMINUM ALLOY 6101-0; ASTM B317-83 (EXCEPT TEMPER) AS FORGED. NO EXCEPTIONS.

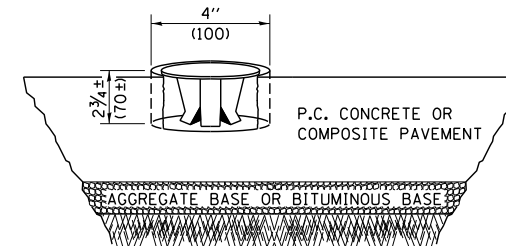
SPECIFICATIONS FOR REBAR

REBAR FOR ALUMINUM TABLET. REINFORCEMENT BAR SHALL BE $5/8"$ (#15) X 48" (1.2 m) (DEFORMED).

INSPECTION OF REINFORCEMENT BAR $5/8"$ (#15) SHALL BE DONE BY DISTRICT PERSONNEL OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS.

XZ193400 – SURVEY MARKER, TYPE 2 (SPECIAL)

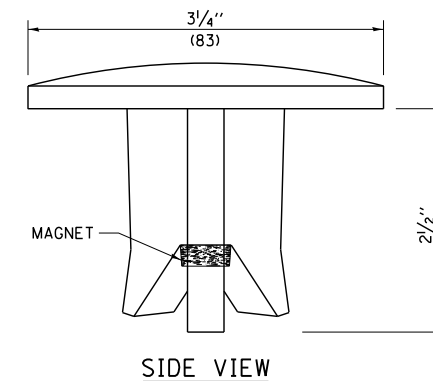
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



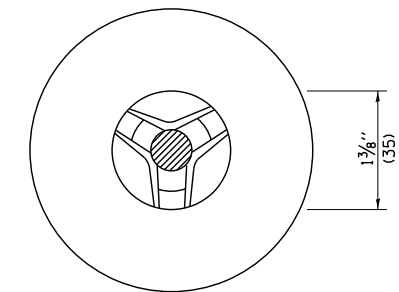
SPECIFICATIONS FOR ALUMINUM TABLET (FORKED)

ALUMINUM TABLET (FORKED) FOR USE WITH "SURVEY MARKER, TYPE 2, (SPECIAL)" SHALL BE AS SHOWN ON THE DETAIL FOR THE $3/4"$ (83 mm) CONVEX SURVEY TABLET WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF $1/32"$ (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM TABLET SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM TABLET SHALL BE DESIGNED NOT TO TURN OR ROTATE. THREE PRONGS ON A $2 1/2"$ (63 mm) STEM SHALL BE SUCH THAT THE ALUMINUM TABLET CANNOT BE EASILY REMOVED.

COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD 19,000-21,000 PSI (131-145 MPa); TENSILE 38,000-44,000 PSI (262-303 MPa); ELONGATION 10-15% [IN 2" (50 mm)]. SPECIFICATIONS: ALLOY 535.0; 00-A-601ES. NO EXCEPTIONS.



SIDE VIEW



BOTTOM VIEW

THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 4" (100 mm) CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 4" (100 mm) DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
4. THE 4" (100 mm) CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED $\pm 1/4"$ (6 mm) BELOW THE FINAL SURFACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = LEROYMA	DESIGNED -	REVISED - 11/06
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/8/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

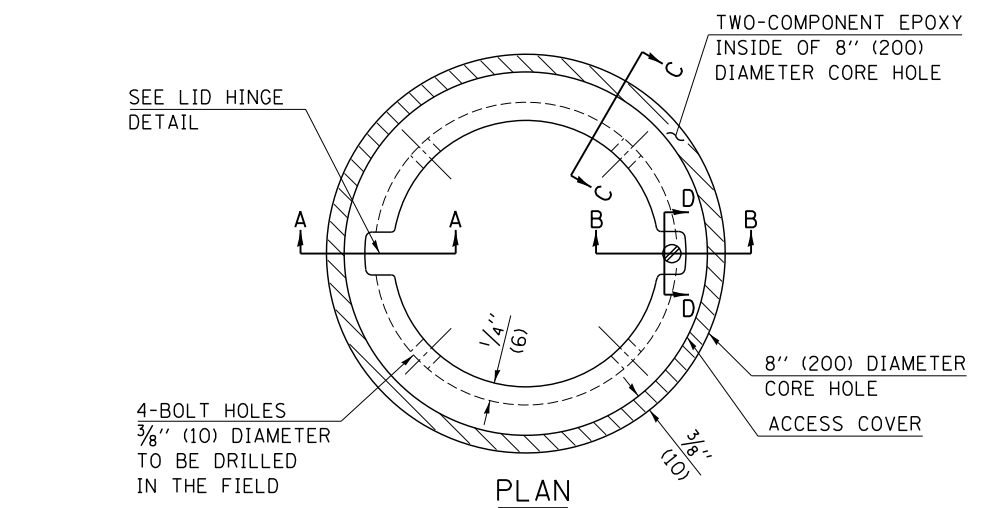
SURVEY MARKERS TYPE 1 & 2 (SPECIAL)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. XZ193AAA

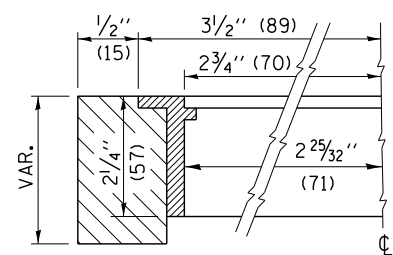
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	54
CONTRACT NO. 70995				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TO BE INSTALLED IN ALL PAVEMENT TYPES FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S) AND LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)

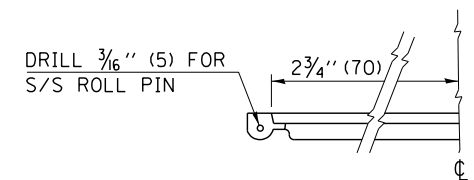
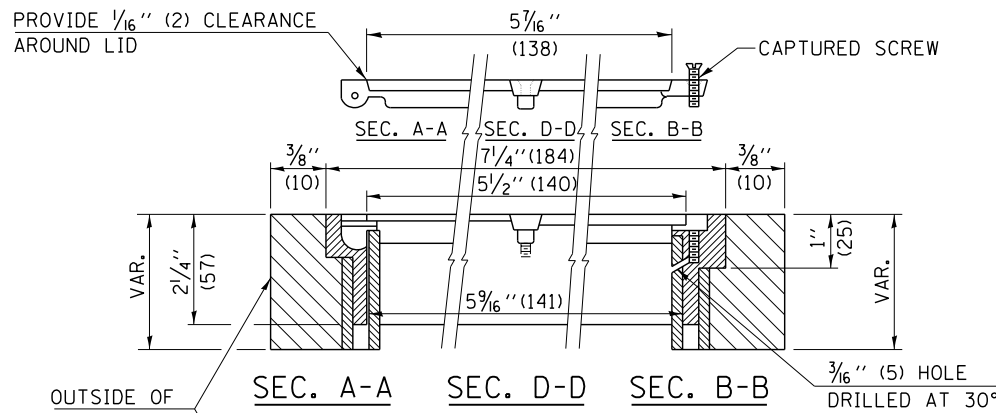


LEGEND

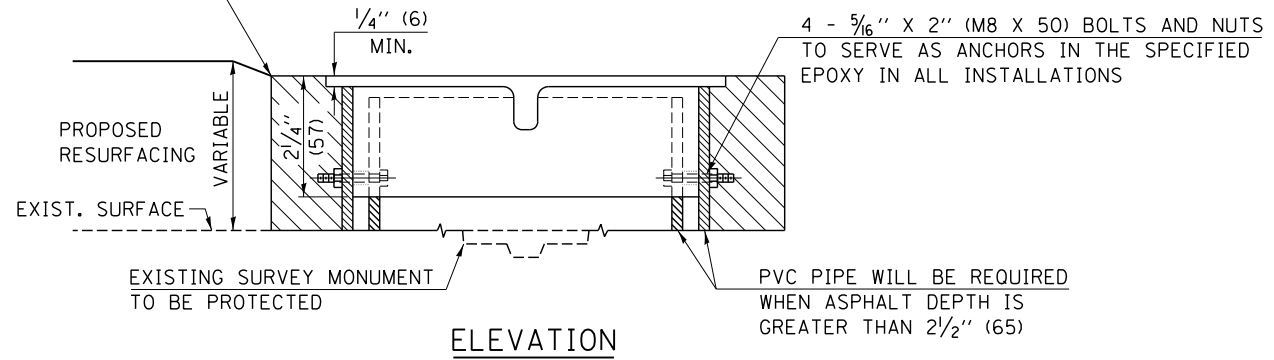
- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY



SECTION C-C



LID HINGE DETAIL



ELEVATION

SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; 00-A-601Es. NO EXCEPTIONS.

BILL OF MATERIAL	
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 4 EACH - 5/16" X 2" (M8 X 50) BOLTS WITH NUTS, EPOXY, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED).	

GENERAL NOTES

- WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
- THE SURVEY MONUMENT COVER ASSEMBLY SHALL BE CENTERED ABOVE THE SURVEY MONUMENT TO BE PROTECTED.
- MODIFICATION OF THE ALUMINUM CASTING SHALL BE DONE BY GRINDING OR SAWING WHEN HEIGHT REDUCTION IS REQUIRED.
- ALL SURVEY MONUMENT COVER ASSEMBLIES SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
- ALUMINUM CASTING SHALL BE PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE WHEN AN INCREASE IN HEIGHT IS REQUIRED.
- THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
- THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MONUMENT COVER ASSEMBLY WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING THE NEW PAVEMENT SURFACE AND EPOXY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MONUMENT COVER ASSEMBLY

SCALE: SHEET NO. OF SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. Z0070100

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	103RS-2	MCLEAN	55	55
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				