

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

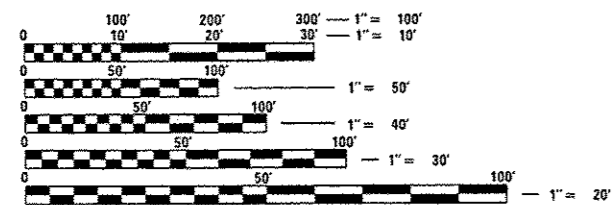
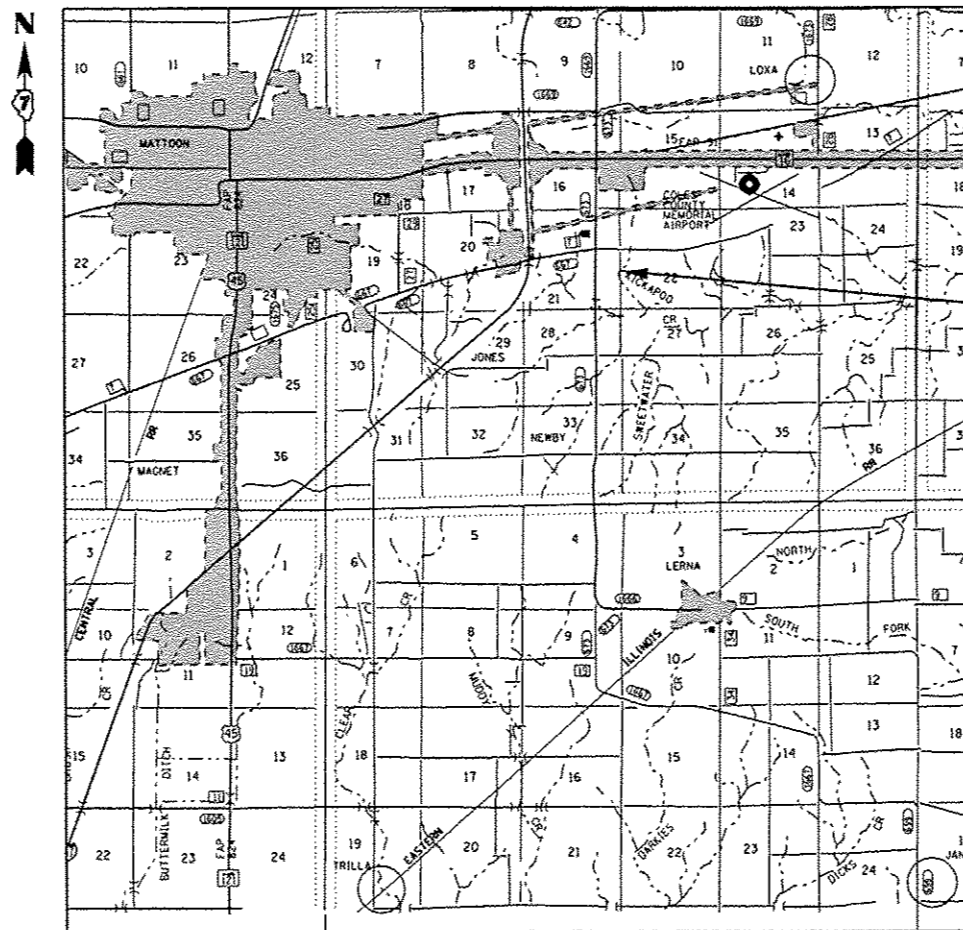
FAS, FAU ROUTES 673, 7705 (LERNA RD)
SECTION D7 HMA RESURF 2016-2

RESURFACING (3P)
COLES COUNTY

C-97-044-16

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D7 HMA RESURF 2016-2	COLES	17	1
* FAS 673, FAU 7705		ILLINOIS	CONTRACT NO. 74751	

FOR INDEX OF SHEETS, SEE SHEET NO. 2



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

PROJECT ENGINEER: MARK DAUGHERTY
PROJECT MANAGER: BRIAN LEWIS

CONTRACT NO. 74751

GROSS LENGTH = 7837 FT. = 1.484 MILE
NET LENGTH = 7837 FT. = 1.484 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *April 1 2016*

Jeffrey M. South
DEPUTY DIRECTOR OF HIGHWAYS/REGION ENGINEER

Mark M. Addis P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Mark M. Addis P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" INDICATED ON THE CHECK SHEET, AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE WORK IN THIS SECTION INCLUDES PATCHING, MILLING AND RESURFACING THE EXISTING PAVEMENT, AGGREGATE SHOULDERS, THERMOPLASTIC PAVEMENT MARKINGS, DETECTOR LOOP REPLACEMENT AND OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THE PROPOSED PROJECT BEGINS AT THE NORTH END OF THE BRIDGE OVER KICKAPOO CREEK AND EXTENDS NORTH A DISTANCE OF 1.49 MILES TO IL 16.

SHORT TERM PAVEMENT MARKING ON THE MILLED SURFACE SHALL BE PAINT. ALL OTHER SHORT TERM PAVEMENT MARKINGS SHALL BE TAPE.

THE PUBLIC ROAD APPROACHES AT OLD STATE ROAD SHALL BE MILLED 10' BEYOND THE EDGE OF THE LERNA ROAD. THIS WORK SHALL BE PAID FOR PER SQ YD AS HMA SURFACE REMOVAL - BUTT JOINT.

THE QUANTITIES FOR PAVEMENT PATCHING ITEMS ARE ESTIMATES. THE ACTUAL LOCATIONS AND QUANTITIES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE SPECIAL PROVISION "HOT MIX ASPHALT QUALITY CONTROL FOR PERFORMANCE" SHALL APPLY TO SURFACE COURSE ONLY.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESS TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT BITUMINOUS PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICES FOR OTHER ITEMS IN THE CONTRACT.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE HMA SURFACE COURSE.

MATERIAL FOR AGGREGATE WEDGE SHOULDER, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE OR RAP.

COST OF REMOVAL OF TEMPORARY RAMP SHALL BE INCLUDED IN THE UNIT PRICE FOR TEMPORARY RAMP.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE
CLASS D PATCHES	PG 64-22	4.0% @ N=70	IL - 19.0	N/A
LEVELING BINDER	PG 64-22	4.0% @ N=70	IL - 9.5	N/A
HMA SURFACE COURSE MIX "C" N70	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C

INDEX OF SHEETS

SHEET NO	TITLE
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SCHEDULES OF QUANTITIES
7	RURAL ENTRANCE DETAIL & SCHEDULE
8-10	PLAN SHEETS
11	MISC. DETAILS
12-15	TYPICAL PAVEMENT MARKING DETAILS
16-17	DETECTOR LOOP DETAILS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

442201-03	CLASS C AND D PATCHES
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
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
701421-07	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >= 45 MPH TO 55 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-05	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

FILE NAME =	USER NAME = stefanmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & INDEX OF SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLANNED BY	CHECKED -	REVISED -			* FAS 673, FAU 7705	CONTRACT NO. 74751			
	PLANNED BY	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE:						SHEET	OF	SHEETS	STA.	TO STA.

FAS
673

FAU
7705

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7705

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 100% STATE RURAL	0005 100% STATE URBAN	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	14	12	2	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	15788	5571	10217	
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	985	347	638	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	832	416	416	
40600990	TEMPORARY RAMP	SO YD	530	157	373	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	1974	697	1277	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	100	56.7	43.3	
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SO YD	14968	6413	8555	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	7995	1627	6368	
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SO YD	185	55	130	
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SO YD	65		65	
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SO YD	150		150	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	246	106	140	
67100100	MOBILIZATION	LSUM	1	0.5	0.5	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 100% STATE RURAL	0005 100% STATE URBAN	
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD	LSUM	1		1	
	701421					
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD	LSUM	1	0.5	0.5	
	701201					
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD	LSUM	1	0.5	0.5	
	701306					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD	LSUM	1		1	
	701701					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2332	928	1404	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	259	103	156	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	171.6		171.6	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	22009	8237	13772	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	705		705	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	210		210	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	230		230	

14 * SPECIALTY ITEM

11

FILE NAME =	USER NAME = staffanik	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 4/1/2016	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

FAS
673 FAU
7705

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 100% STATE RURAL	0005 100% STATE URBAN
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	60		60
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	186	40	146
* 88600100	DETECTOR LOOP, TYPE I	FOOT	398		398
X4060995	TEMPORARY RAMP, SPECIAL	SO YD	218		218
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	426	213	213
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
* X7830060	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SO FT	171.6		171.6
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	22009	8237	13772
* X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	705		705
* X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	210		210
* X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	230		230
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	60		60

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 100% STATE RURAL	0005 100% STATE URBAN

* SPECIALTY ITEM

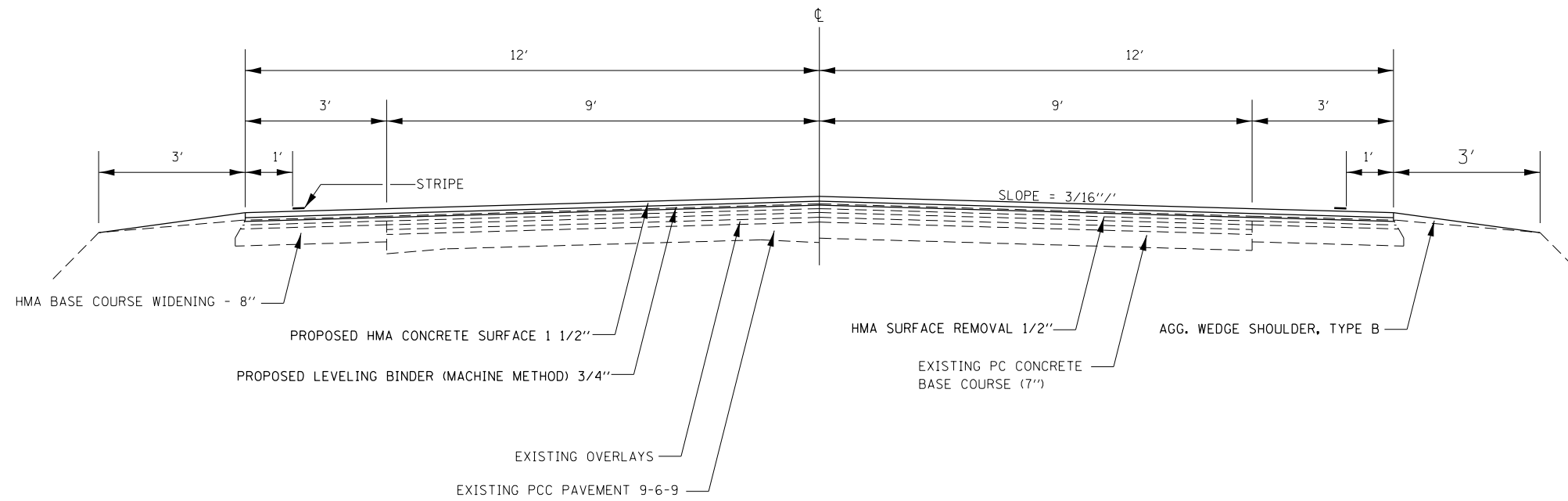
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

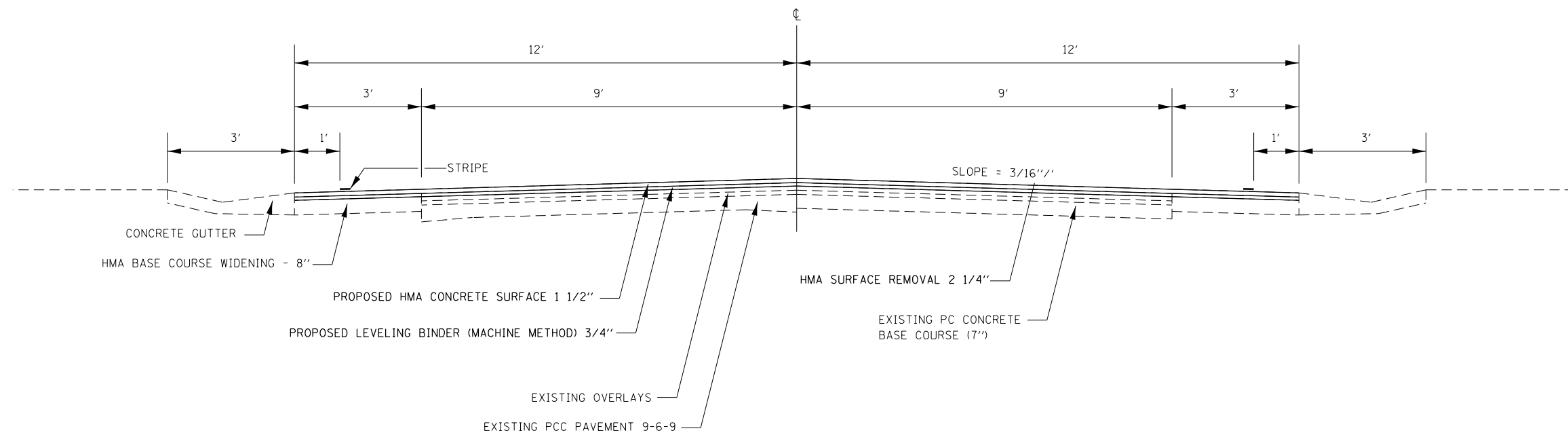
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	07 HMA RESURF 2016-2	COLES	17	4
- FAS 673, FAU 7705		CONTRACT NO. 74751		
ILLINOIS FED. AID PROJECT				



STA 906+82 TO STA 964+55



STA 900+72 TO STA 906+82

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICALS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

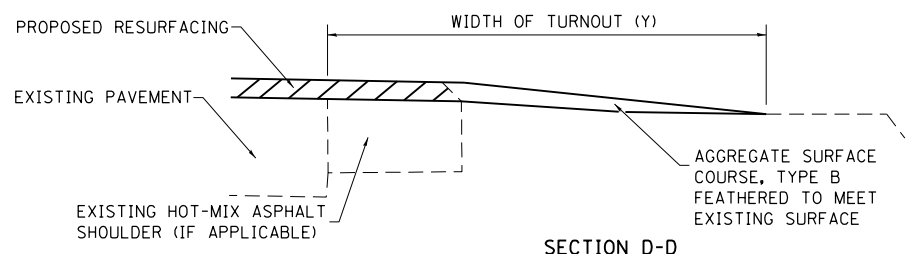
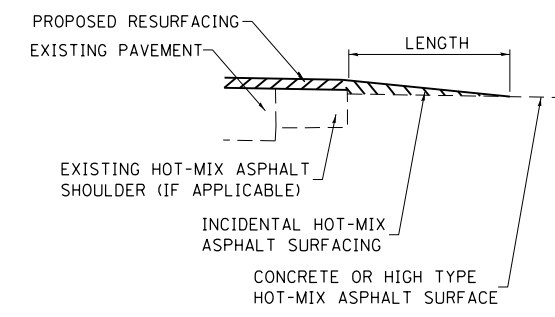
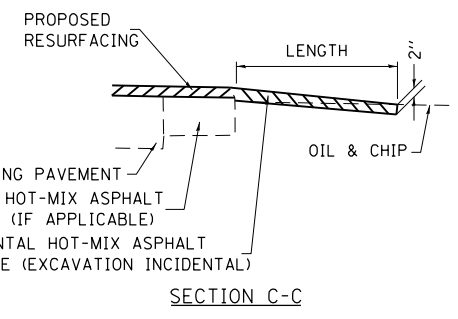
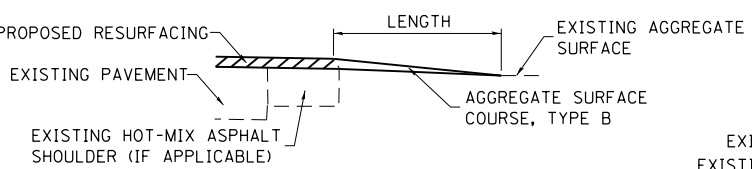
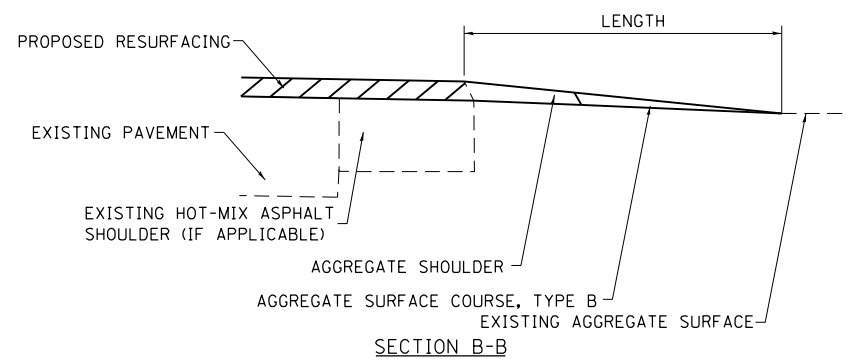
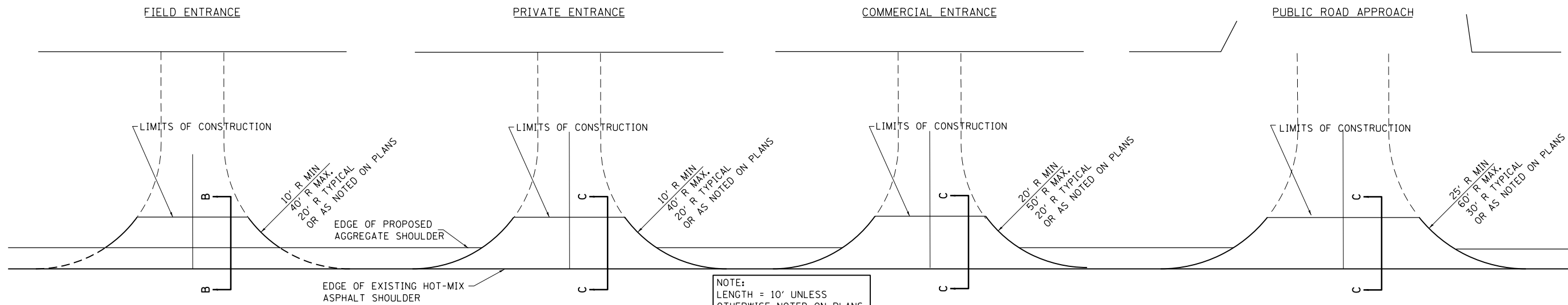
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•	D7 HMA RESURF 2016-2	COLES	17	5
• FAS 673, FAU 7705			CONTRACT NO. 74751	
ILLINOIS FED. AID PROJECT				

TABULATION OF RESURFACING QUANTITIES

LOCATION	TOTAL ROADWAY WIDTH	LENGTH	AREA	TEMPORARY RAMP	HMA SURFACE REMOVAL 0.5 IN	HMA SURFACE REMOVAL VAR. DP	HMA SURFACE REMOVAL 2.25 IN	BITUMINOUS MATERIALS TACK COAT	LEVELING BINDER (MM) IL-9.5 N 70 0.75 IN	HMA SURF CSE MIX "C", N 70 IL 9.5, 1.5 IN	AGGREGATE WEDGE SHOULDERS, TYPE B	
	FT	FT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	POUND	TON	TON	LEFT SIDE	RIGHT SIDE
											TON	TON
STA. 900 + 72 TO 906 + 82	24	610	1627	33			1627	1098	68	137		
STA. 906 + 82 TO 907 + 62	24	80	213			213		144	9	18	2	2
STA. 907 + 62 TO 931 + 67	24	2405	6413	156	6413			4329	270	542	51	51
STA. 931 + 67 TO 963 + 75	24	3208	8555	156	8555			5774	360	722	68	69
STA. 963 + 75 TO 964 + 55	24	80	213			213		144	9	18	2	2
STA. 964 + 55 TO 967 + 55	24-36	300	1000				1000	675	42	84		
STA. 967 + 55 TO 974 + 91	36	736	2944				2944	1987	124	248		
STA. 974 + 91 TO 976 + 96	36-48	205	957				957	646	40	81		
STA. 976 + 96 TO 978 + 46	48	150	800				800	540	34	67		
STA. 978 + 46 TO 979 + 09	VAR.	63	667	250			667	450	28	56		
GRAND-TOTAL				595	14,968	426	7,995	15,788	985	1,974	123	123
											TOTAL	246

PAVEMENT MARKING SCHEDULE

STATION TO STATION	THERMOPLASTIC PAVEMENT MARKING - LTRS & SYMB (WHITE)	GROOVING FOR RECESSED PAVEMENT MARKING - LETTERS, NUMBERS AND SYMBOLS	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)	GROOVING FOR RECESSED PAVEMENT MARKING 5"	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)	GROOVING FOR RECESSED PAVEMENT MARKING 7"	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE)	GROOVING FOR RECESSED PAVEMENT MARKING 9"	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW)	GROOVING FOR RECESSED PAVEMENT MARKING 13"	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)	GROOVING FOR RECESSED PAVEMENT MARKING 25"	RAISED REFLECTIVE PAVEMENT MARKER (CRYSTAL ONE-WAY)	RAISED REFLECTIVE PAVEMENT MARKER (AMBER ONE-WAY)	RAISED REFLECTIVE PAVEMENT MARKER (AMBER TWO-WAY)
	SQ FT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH
900+72 TO 931+67			2047	6190	8237												40
931+67 TO 964+55			1810	6296	8106												42
964+55 TO IL 16 EOP	171.6	171.6	3724	1942	5666	705	705			108	108				32	32	40
ISLANDS AT IL 16 INTERSECTION								210	210	122		122		60	60		
STOP BARS AT IL 16 INTERSECTION													60	60			
TOTALS	171.6	171.6	7581	14428	22009	705	705	210	210	122	108	230	60	60	32	32	122



TYPICAL SECTION AT MAILBOX TURNOUT
NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS

NOTES

THE COST OF THE ASPHALT MATERIALS, AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROADS AND APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

THE COST OF EXCAVATION IS INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

IF THERE IS NOT EXISTING HOT-MIX ASPHALT SHOULDER THEN THE ENTRANCE TAPER STARTS AT THE EDGE OF EXISTING PAVEMENT.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

SIDE	MILEAGE•	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
LT	0.13	PE		1.9
RT	0.14	PE	2.2	
RT	0.16	PE	2.5	
RT	0.21	PE	2.7	
RT	0.32	PE		1.6
LT	0.34	FE		1.0
RT	0.355	PE	2.5	
RT	0.36	PE	2.5	
RT	0.38	PE		2.2
RT	0.44	PE		2.2
RT	0.48	PE		1.5
RT	0.53	PE		1.9
LT	0.59	PRA	79	
RT	0.59	PRA	8.6	
LT	0.66	FE		1.0
RT	1.05	FE		0.8
		TOTAL	86	14

FE=FIELD ENTRANCE PRA - PUBLIC ROAD APPROACH *DISTANCE FROM SOUTH END OF PROJECT
PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT
CE=COMMERCIAL ENTRANCE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

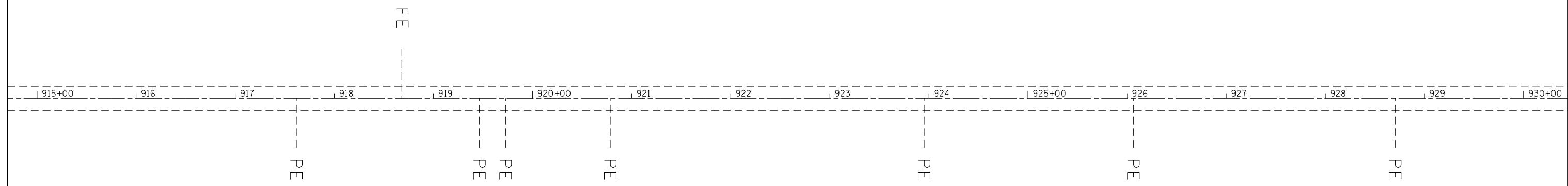
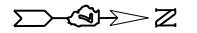
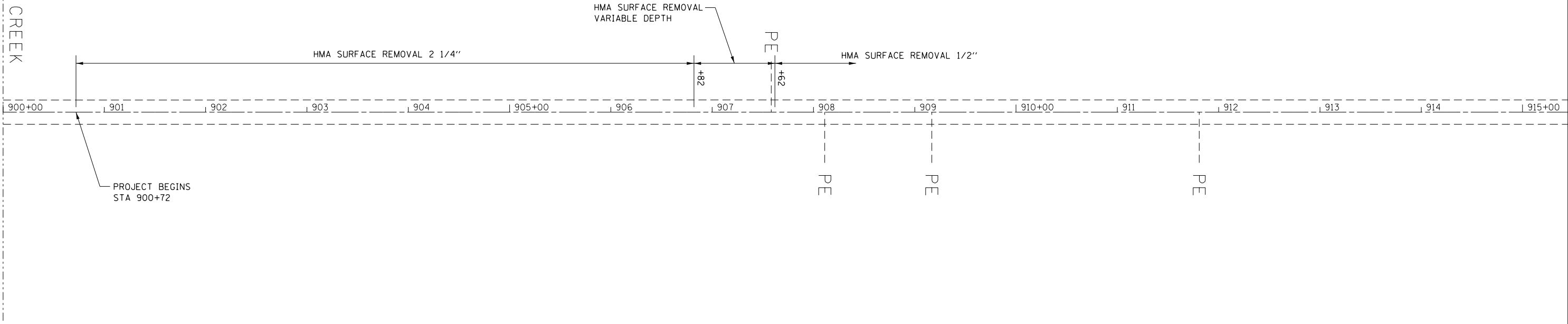
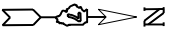
**RURAL ENTRANCE SCHEDULE AND MAILBOX TURNOUT DETAILS
WITH SHOULDERS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D7 HMA RESURF 2016-2	COLES	17	7
•	FAS 673, FAU 7705		CONTRACT NO. 74751	

ILLINOIS FED. AID PROJECT

KICKAPOO CREEK



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 4/1/2016		REVISED -		ILLINOIS FED. AID PROJECT								
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.			



OLD STATE ROAD

FE

930+00 931 932 933 934 935+00 936 937 938 939 940+00 941 942 943 944 945+00

RURAL ← → URBAN

HMA SURFACE REMOVAL - BUTT JOINT	
LT STA 930+86 TO STA 932+48	751 S. Y.
RT STA 931+30 TO STA 932+04	82 S. Y.
TOTAL	833 S. Y.



945+00 946 947 948 949 950+00 951 952 953 954 955+00 956 957 958 959 960+00

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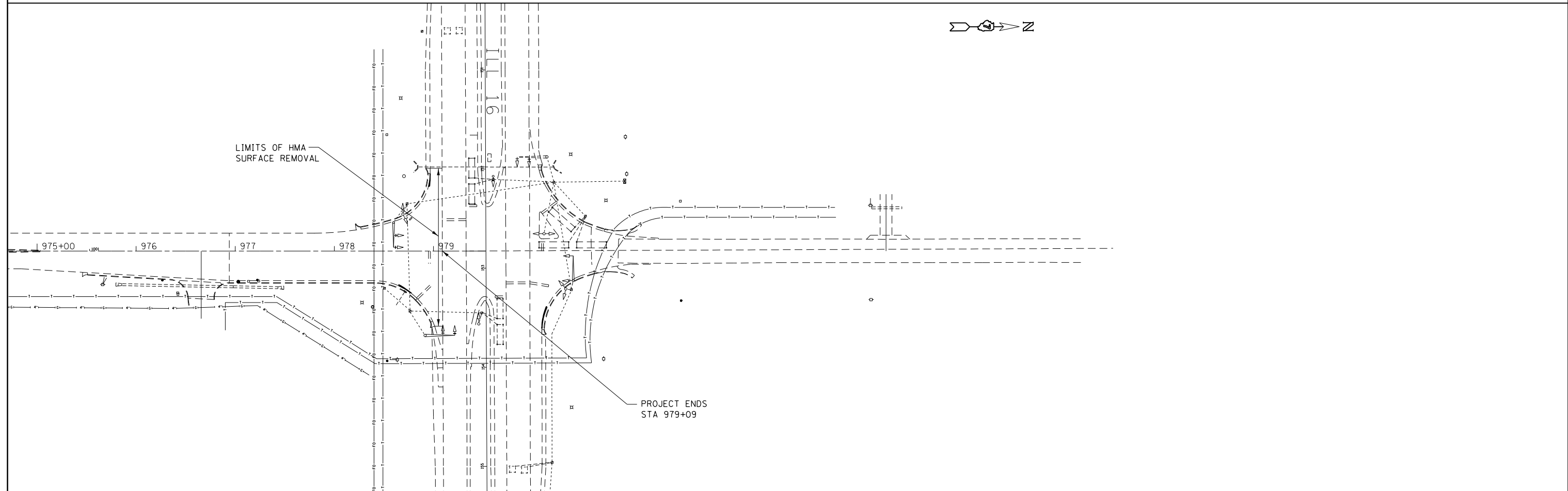
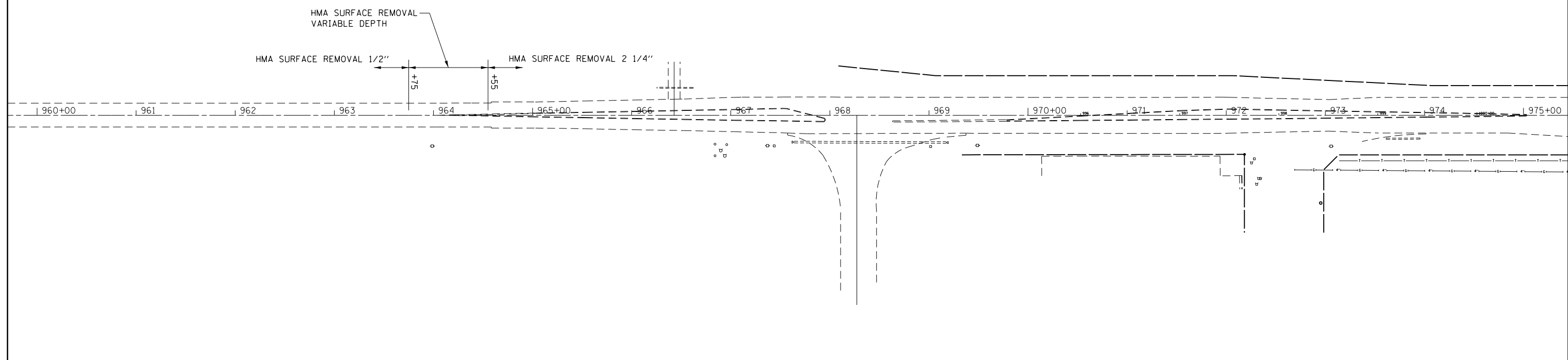
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Default	PLOT DATE = 4/1/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D7 HMA RESURF 2016-2	COLES	17	9
• FAS 673, FAU 7705		CONTRACT NO.	74751	
ILLINOIS FED. AID PROJECT				

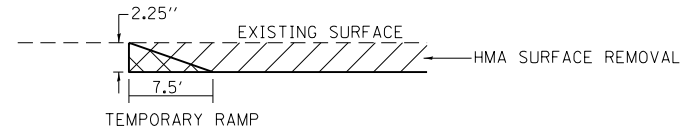


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	PLOT DATE = 4/1/2016	DATE -	REVISED -

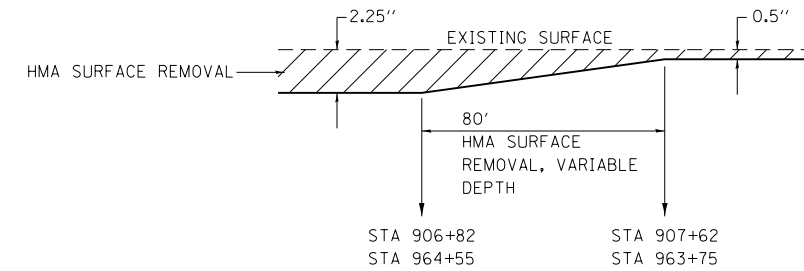
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

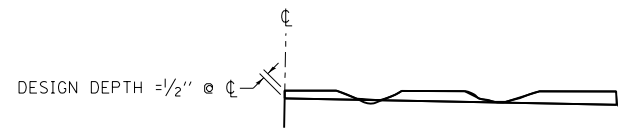
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•	D7 HMA RESURF 2016-2	COLES	17	10
•	FAS 673, FAU 7705	CONTRACT NO. 74751		
ILLINOIS FED. AID PROJECT				



BUTT JOINT DETAIL
NORTH & SOUTH ENDS



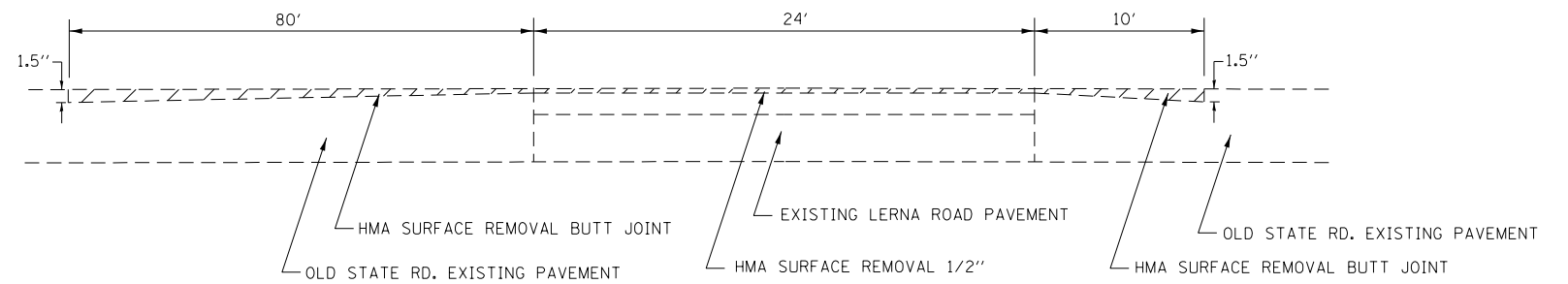
MILLING DEPTH TRANSITION DETAIL



NOTES:

1. MILLING SHALL BE DONE TO ATTAIN A $\frac{3}{16}$ " SLOPE IN CROWN SECTIONS
2. EXISTING S.E. AND S.E. TRANSITIONS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN ON THE PLANS.
3. MILLING TO THE BOTTOM OF WHEEL RUTS SHALL NOT BE NECESSARY UNLESS REQUIRED TO OBTAIN SLOPE OR THE DESIGN DEPTH AT CENTERLINE.
4. THE AVERAGE DEPTH OF MILLING IS ESTIMATED TO BE $\frac{1}{2}$ " BUT MAY VARY IN ISOLATED LOCATIONS.

HMA SURFACE REMOVAL, 1/2" DETAIL



DETAIL AT OLD STATE ROAD INTERSECTION

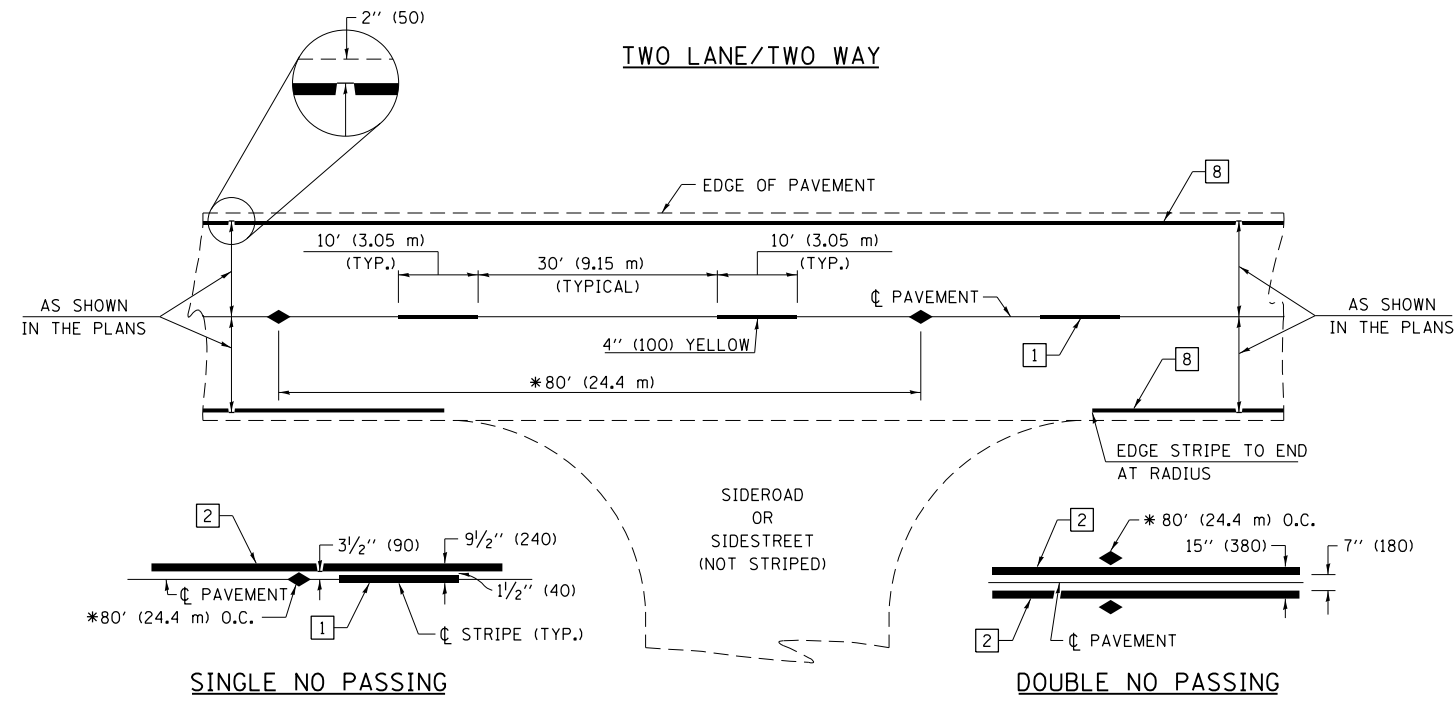
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Default	PLOT DATE = 4/1/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

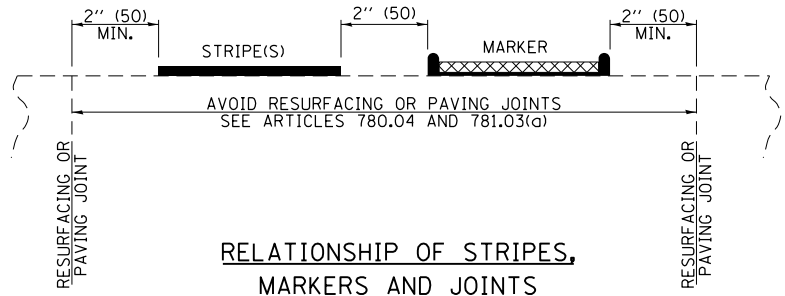
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• D7 HMA RESURF 2016-2		COLES	17	11
• FAS 673, FAU 7705		CONTRACT NO.	74751	
ILLINOIS FED. AID PROJECT				



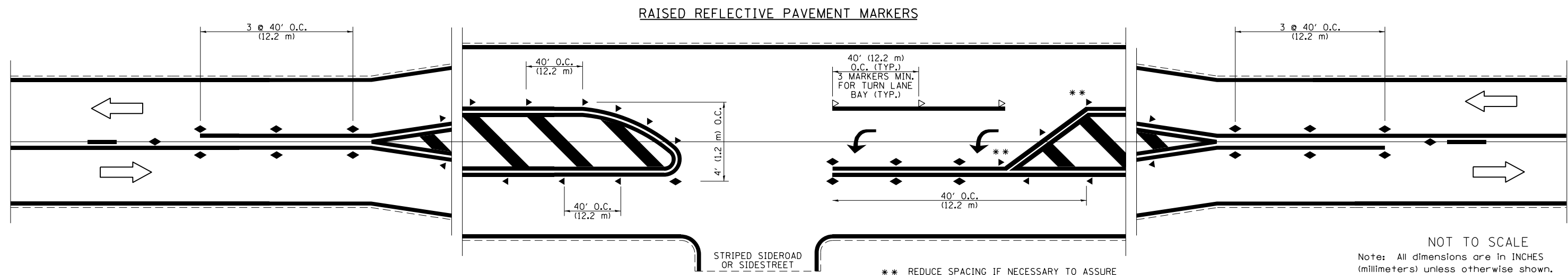
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) 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) PARKING WHITE

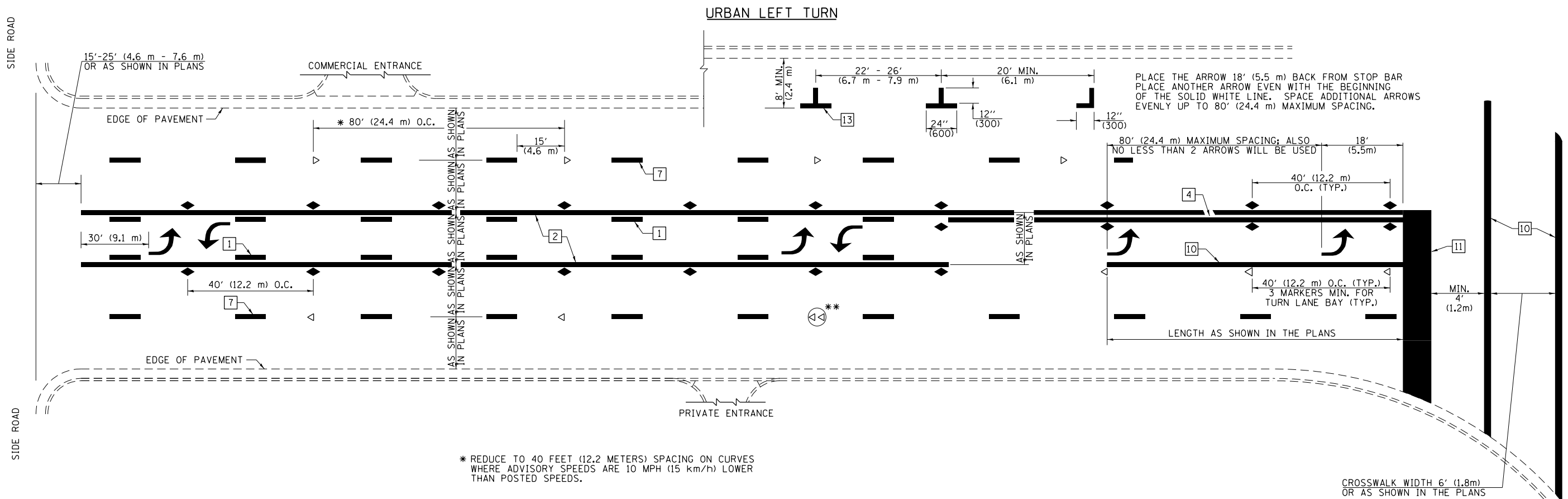


TYPICAL PAVEMENT MARKERS LEGEND

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



NOT TO SCALE
 Note: All dimensions are in INCHES (millimeters) unless otherwise shown.



PLACE THE ARROW 18' (5.5 m) BACK FROM STOP BAR
PLACE ANOTHER ARROW EVEN WITH THE BEGINNING
OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS
EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING.

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

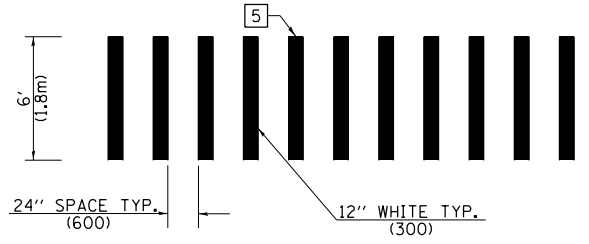
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED
AND SPACED AS SHOWN IN HIGHWAY STANDARD
781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED
HIGHWAYS.

PAVEMENT MARKING LEGEND

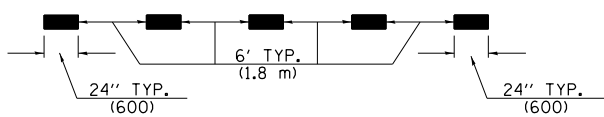
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP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

GENERAL NOTES

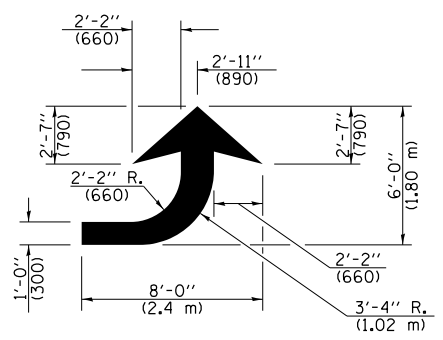
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. 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.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



**CROSSWALK DETAIL
(DECATUR CITY LIMITS ONLY)**

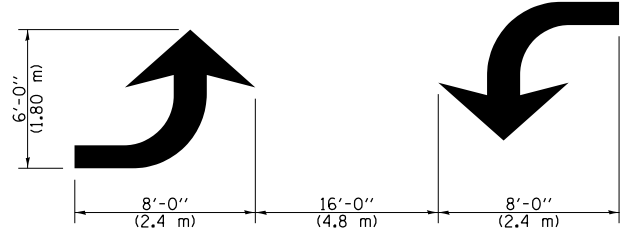


LANE LINE EXTENSIONS



LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



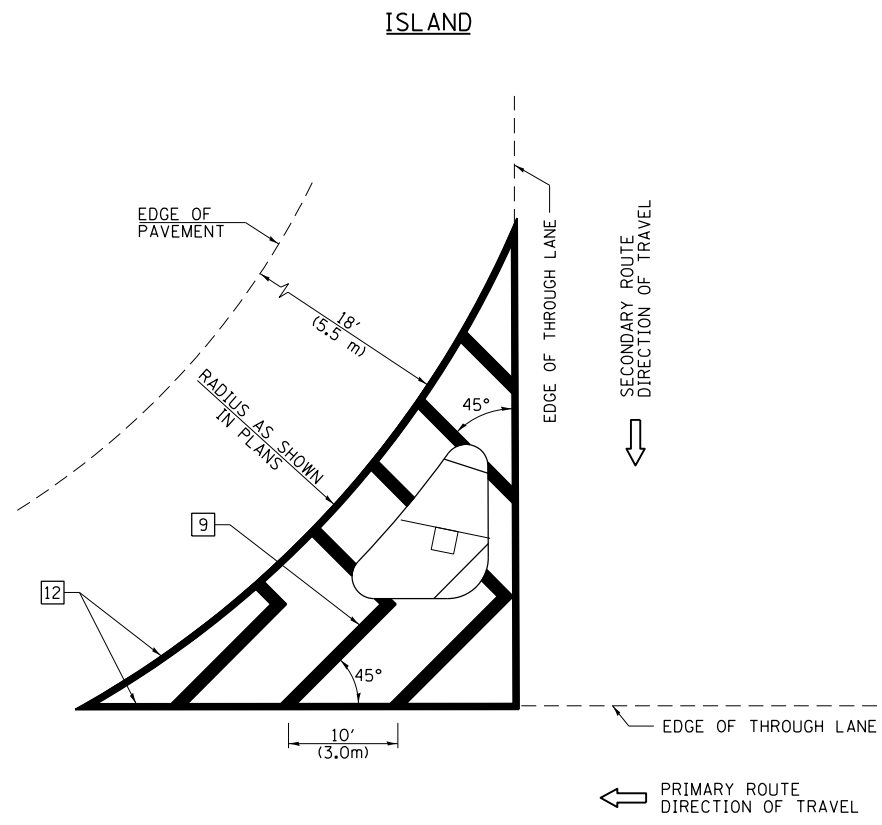
**TYPICAL DOUBLE
TURN ARROWS (WHITE)**

NOT TO SCALE

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

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74751\Drawings\CAD\Sheets\0774751-shd-details.dwg		CHECKED -	REVISED -			• D7 HMA RESURF 2016-2	COLES	17	13	
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -			• FAS 673, FAU 7705	CONTRACT NO. 74751			
PLOT DATE = 4/1/2016						ILLINOIS FED. AID PROJECT				

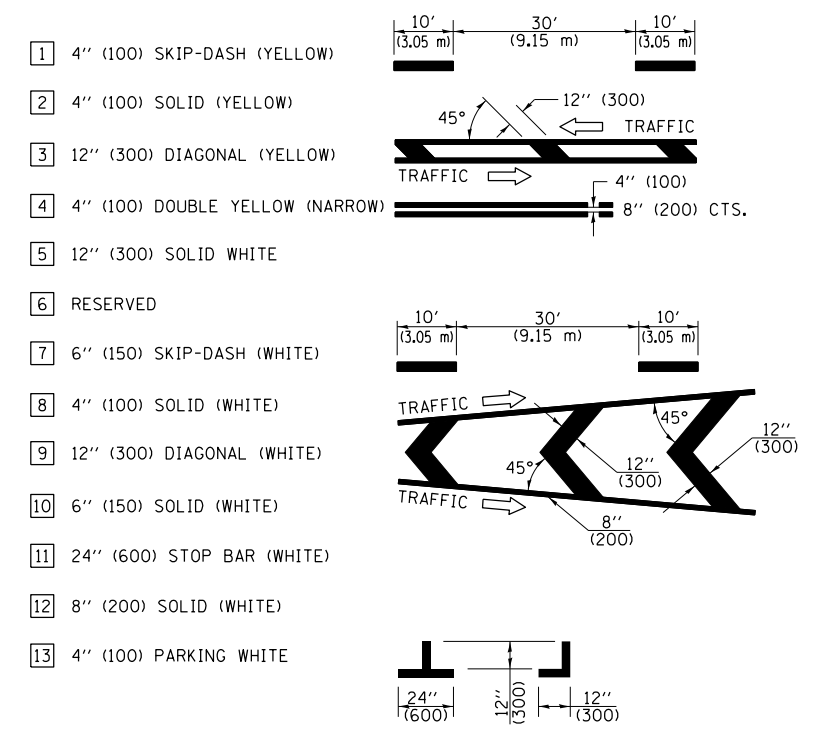


GENERAL NOTES

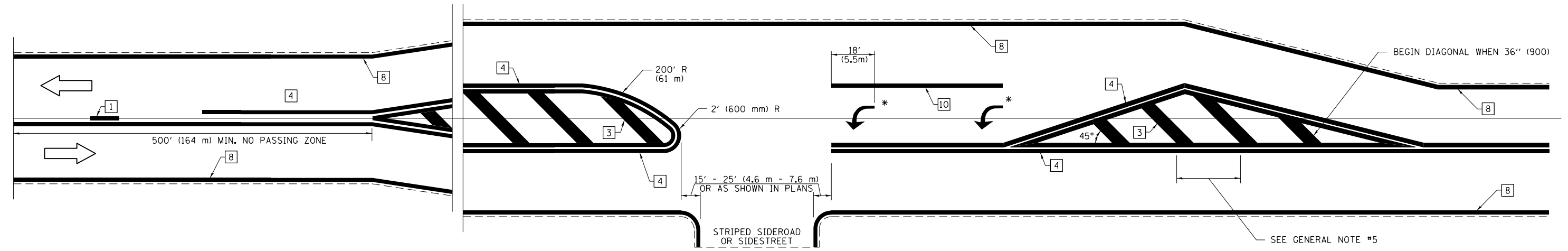
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE
 Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

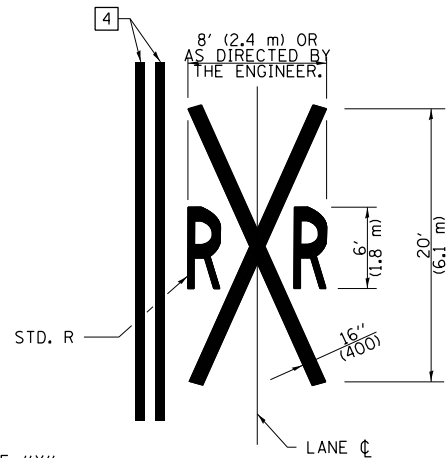
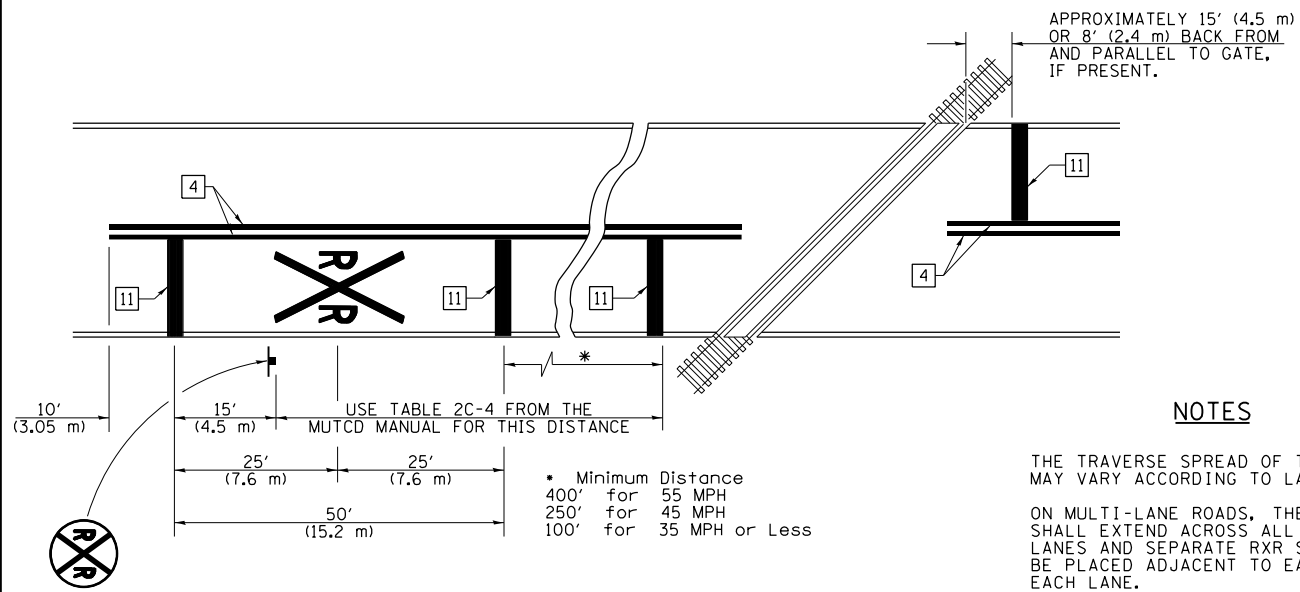
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/1/2016	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)			
SCALE:	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D7 HMA RESURF 2016-2	COLES	17	14
• FAS 673, FAU 7705			CONTRACT NO. 74751	
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

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

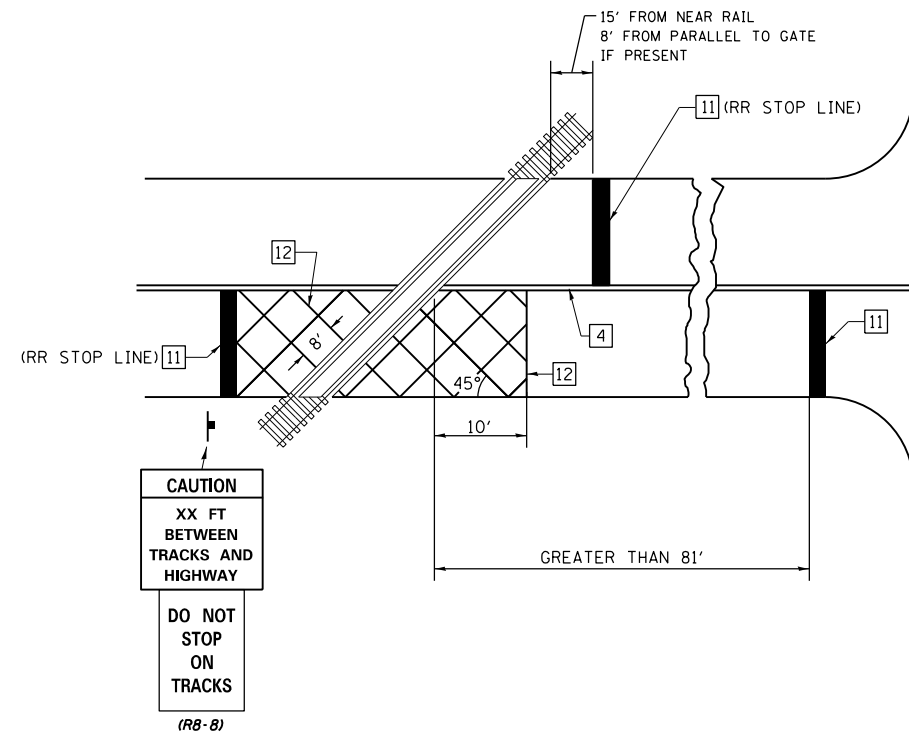
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

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.

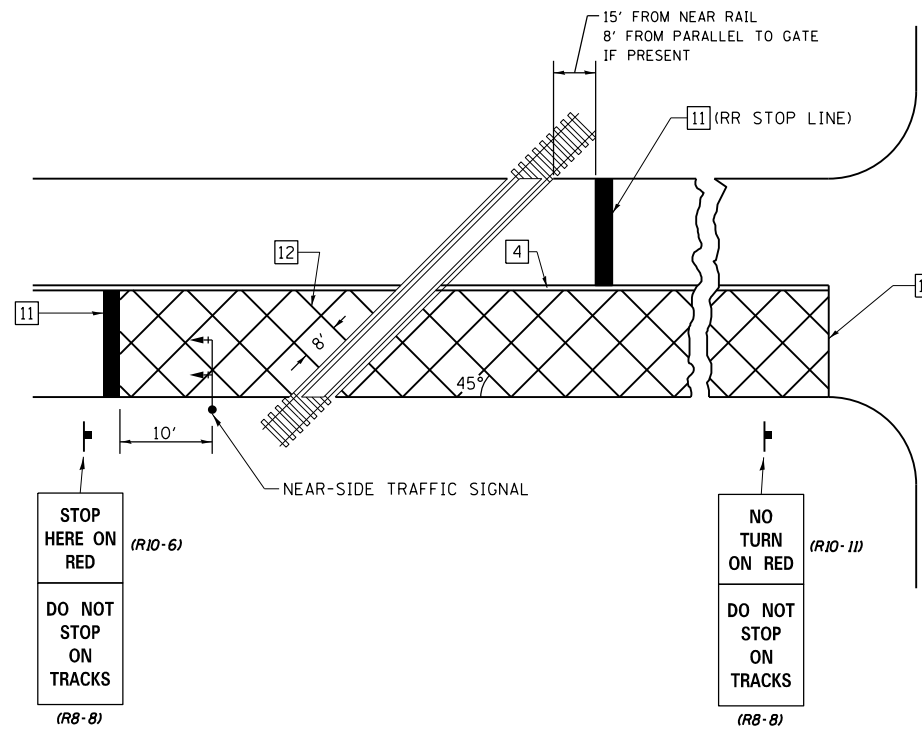
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
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- 7 6" (150) 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) PARKING WHITE

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



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.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

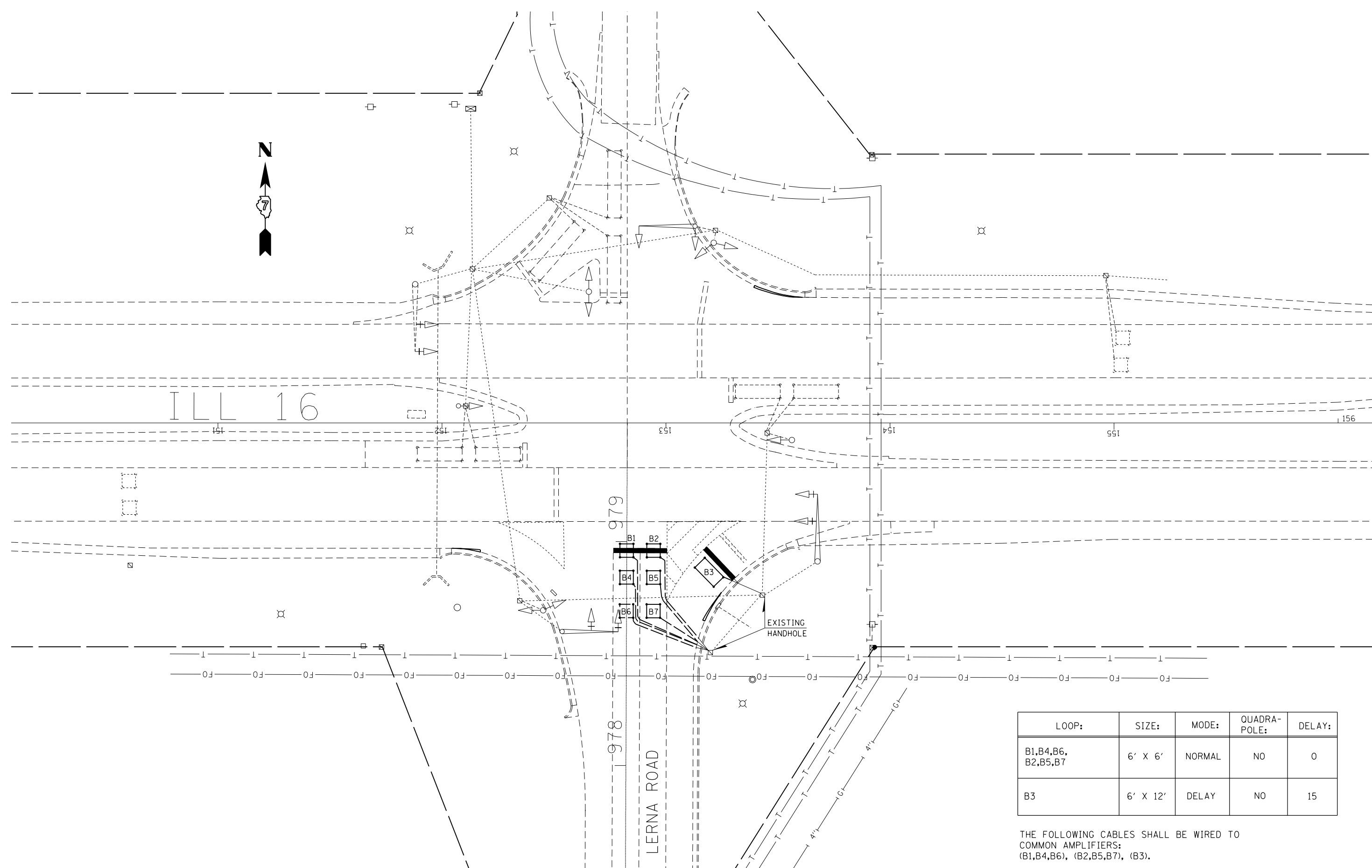
NOT TO SCALE

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

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74751\Drawings\CADsheets\0774751-shd-details.dwg	PLotted	CHECKED -	REVISED -			• D7 HMA RESURF 2016-2	COLES	17	15	
	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -			• FAS 673, FAU 7705	CONTRACT NO. 74751			
	PLOT DATE = 4/1/2016						ILLINOIS FED. AID PROJECT			

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



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
B1,B4,B6, B2,B5,B7	6' X 6'	NORMAL	NO	0
B3	6' X 12'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON AMPLIFIERS: (B1,B4,B6), (B2,B5,B7), (B3).

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT DATE = 4/1/2016	DATE -	REVISED -

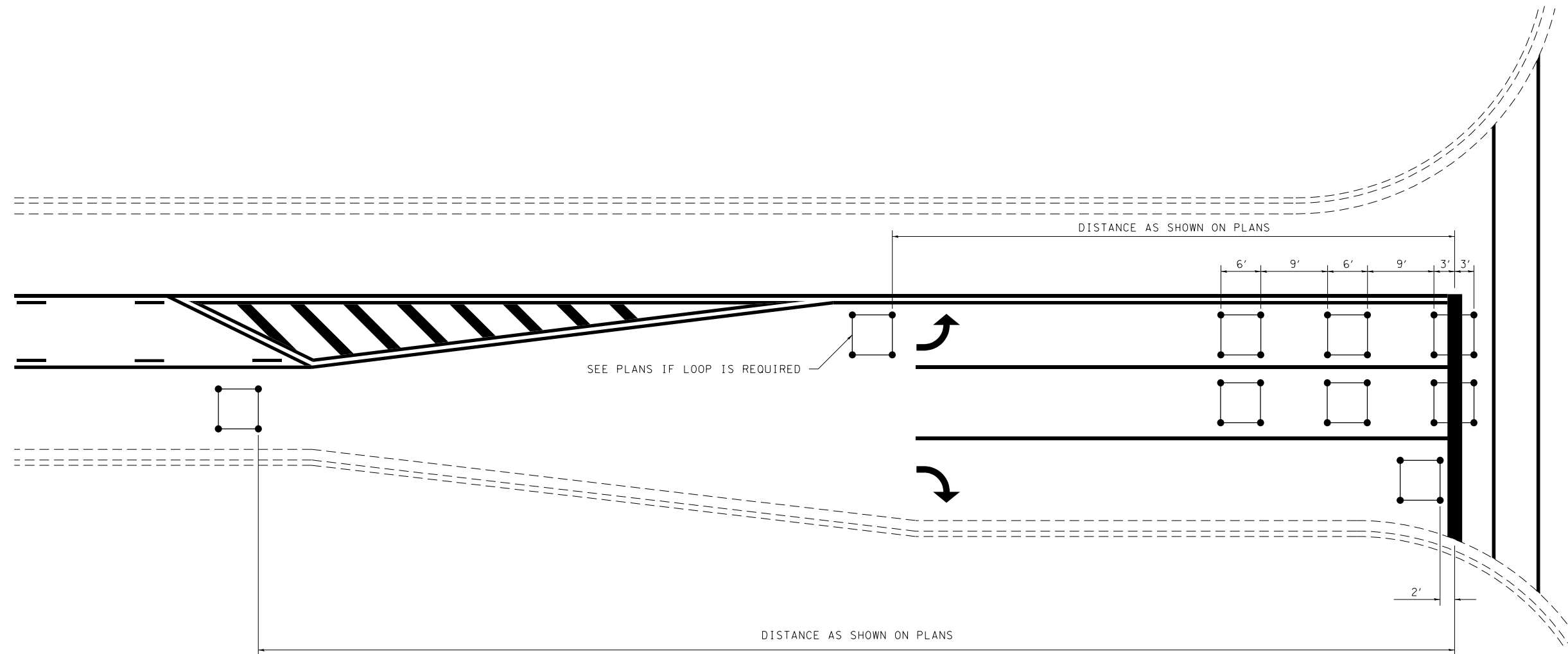
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF IL RTE 16 & LERNA ROAD
DETECTOR LOOP LAYOUT**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D7 HMA RESURF 2016-2	COLES	17	16
•	FAS 673, FAU 7705	CONTRACT NO. 74751		
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

TYPICAL APPLICATION OF DETECTOR LOOPS



NOTE:

1. EACH LOOP SHALL HAVE ITS OWN HOMERUN TO THE GULFBOX/HANDHOLE.
2. LOOPS SHOULD BE CENTERED IN EACH LANE.
3. USE 6' BY 6' LOOPS FOR LANE WIDTHS OF 11' OR GREATER.
4. USE 5' BY 5' LOOPS IF LANE WIDTH IS LESS THAN 11'.

NOT TO SCALE

DISTRICT 7 DETAIL NO. 88600100

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED - -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74751\Drawings\CADsheets\0774751-DL.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS OF DETECTOR LOOPS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D7 HMA RESURF 2016-2	COLES	17	17
	• FAS 673, FAU 7705		CONTRACT NO. 74751	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			