

04-27-2018 LETTING ITEM 096

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

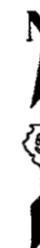
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7009	(34)RS-2	VERMILION	12	1
ILLINOIS			CONTRACT NO. 70D06	

D-95-016-18

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

# PROPOSED HIGHWAY PLANS

F.A.U. 7009 (CATLIN-TILTON RD.)  
SECTION (34)RS-2  
PROJECT  
RESURFACING  
VERMILION COUNTY



**CURRENT TRAFFIC DATA**

E.A.U. 7009

2017 A.D.T. = 3450  
P.U. & P.C. = 3184  
SU = 176  
MU = 90

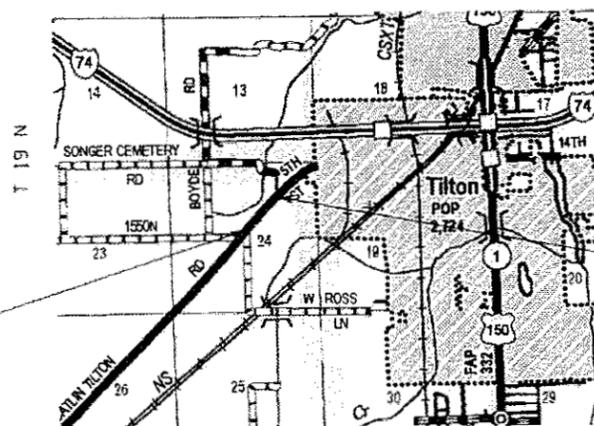
**DESIGN DESIGNATION**

MAJOR COLLECTOR



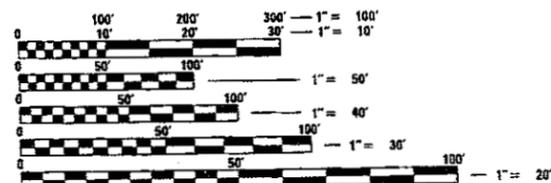
LOCATION OF SECTION INDICATED THUS: -

C-95-029-18  
WEST OF TILTON



F.A.U. 7009 SECTION (34)RS-2  
BEGINS: STA. 135+00.00

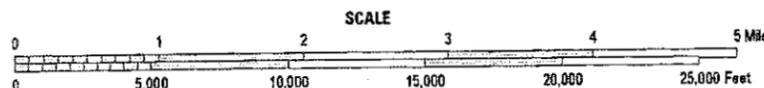
F.A.U. 7009 SECTION (34)RS-2  
ENDS: STA. 144+80.00



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

TOWNSHIP : CATLIN  
PROJECT ENGINEER : JASON STULTS  
SQUAD LEADER : GREG EAGLIN  
DESIGNER : MATTHEW MURPHY  
PHONE : 217-465-4181  
CONTRACT NO. 70D06



GROSS LENGTH = 980.00 FT. = 0.186 MILE  
NET LENGTH = 980.00 FT. = 0.186 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 30 2018

Paula James REGIONAL ENGINEER

Mark Etk ENGINEER OF DESIGN AND ENVIRONMENT

Paul P. [Signature] DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS
2	LIST OF STANDARDS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5-6	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS
7	SCHEDULE OF QUANTITIES
8	PAVEMENT MARKING PLAN
9-12	DETAIL FOR PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

## LIST OF STANDARDS

STANDARD NO.	NAME OF STANDARD
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-08	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701901-07	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

MODEL: #MODELNAME  
 FILE NAME: PROJ\BUREAU\INTEC\Illinois.spc\HWDOT\Doc\Inits\DOT Office\Sub\Inits 8\Projects\57006\CADD\atd\design\0370D06-ill-gennate.dgn

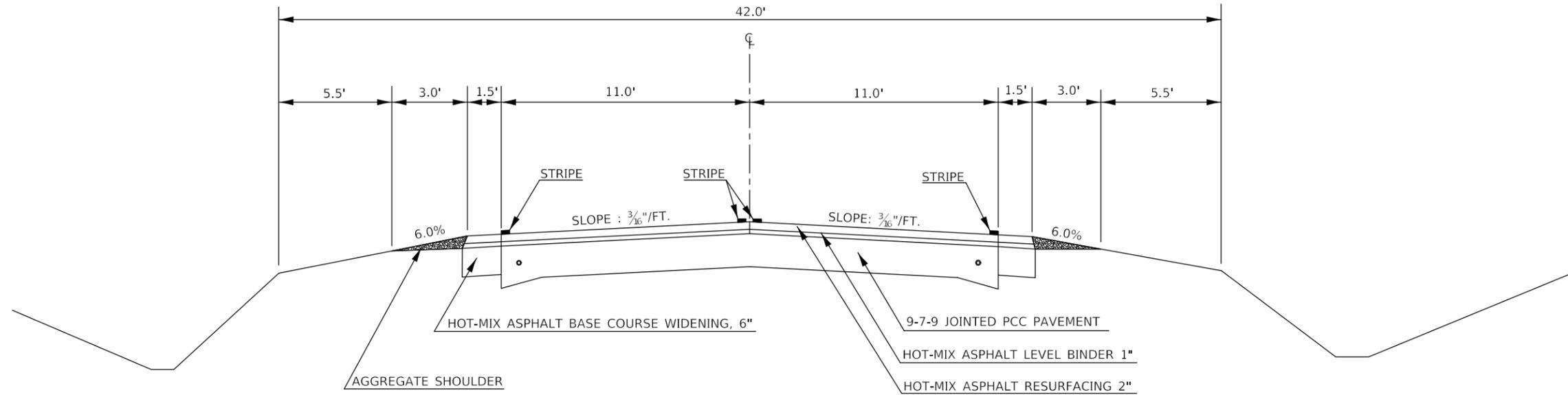
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SCALE: 20				SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 70D06				





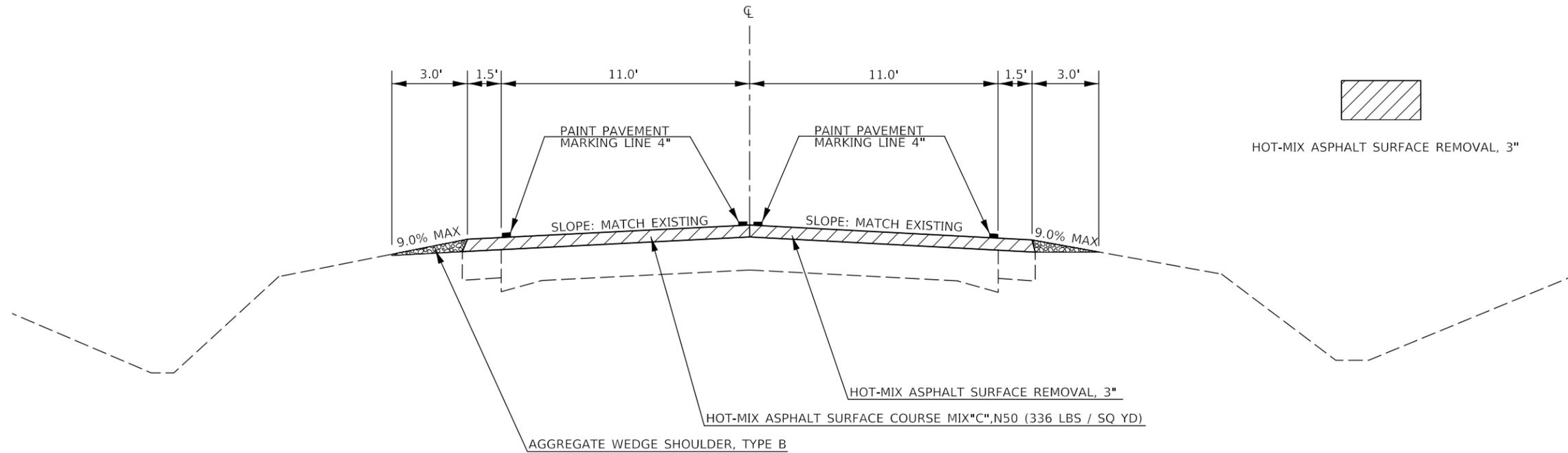
### EXISTING TYPICAL CROSS SECTION

STATION: 135+00.00 TO STATION: 140+17.30



### PROPOSED TYPICAL CROSS SECTION

STATION: 135+00.00 TO STATION: 140+17.30



MODEL: \\MODELNAME  
FILE: \\name; \\path\user\id\ntec\illinois\gov\p\w\dot\Documents\dot\Office\id\ntec\illinois\gov\p\w\dot\Design\70D06\ch\Typical.dgn

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/2/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7009	(34)RS-2	VERMILION	12	5
CONTRACT NO. 70D06				
ILLINOIS FED. AID PROJECT				



# SCHEDULE OF QUANTITIES

40600290 BITUMINIOUS MATERIAL TACK COAT

STATION	TO	STATION	POUND
135+00.00		144+80.00	1457.8
TOTAL:			1458.0

40600990 TEMPORARY RAMP

STATION	TO	STATION	WIDTH	SQ YD
135+00.00		135+06.00	24.5	27.22
144+74.00		144+80.00	36.0	40.00
TOTAL:				67.22
USE:				68.00

40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

STATION	TO	STATION	TONS
135+00.00		144+80	544.3
TOTAL:			545.0

44000161 HOT-MIX ASPHALT SURFACE REMOVAL 3.0

STATION	TO	STATION	SQ YD
135+00.00		144+80.00	3239.4
TOTAL:			3240.0

48102100 AGGREGATE WEDGE SHOULDERS TYPE B

STATION	OFFSET	TO	STATION	OFFSET	TON
135+00.00	13.0' LT.		144+80.00	18.0' LT.	29.40
135+00.00	13.0' RT.		142+62.00	17.0' RT.	22.86
144+19.50	17.0' RT.		144+80.00	18.0' RT.	1.74
TOTAL:					54.00

70300100 SHORT TERM PAVEMENT MARKING

STATION	TO	STATION	FOOT
135+00.00		144+80.00	196.00
TOTAL:			196.00

SKIP DASH CENTER LINE

70300150 SHORT TERM PAVEMENT MARKING REMOVAL

STATION	TO	STATION	SQ. FT.
135+00.00		144+80.00	32.34
TOTAL:			32.34
USE:			33.00

SKIP DASH CENTER LINE

78001100 PAINT PAVEMENT MARKING-LETTERS & SYMBOL

STATION	OFFSET	SQ FT
143+44.50	CENTER	32.0

78001110 PAINT PAVEMENT MARKING-LINE 4

STATION	TO	STATION	4" White	4" Yellow	Yellow	4" Double Yellow	4" Yellow Skip Dash
135+00.00		144+80.00	1960.0				
135+00.00		139+84.50					121.10
143+02.30		144+80.00					88.90
139+84.50		140+17.30			65.60		
140+17.30		143+02.30			1140.00		
143+02.30		144+80.00		355.40			
TOTAL:			1960.00	355.40	1205.60	210.00	3731.00
USE:							3731.00

78001150 PAINT PAVEMENT MARKING-LINE 12

STATION	FOOT	
140+41.40	2.7	
140+61.40	3.8	
140+81.40	4.9	
141+01.40	5.9	
141+21.40	7.0	
141+41.40	8.1	
141+61.40	9.2	
141+81.40	10.2	
142+01.40	11.3	
142+21.40	12.4	
142+41.40	13.4	
142+61.40	14.5	
142+81.40	15.6	
143+01.40	16.6	
TOTAL:		135.6
USE:		136.0

MODEL: \\MODELNAME  
 FILE NAME: \\FILENAME  
 PROJECT: \\PROJECT  
 OFFICE: \\OFFICE  
 DATE: \\DATE

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/2/2018	DATE -	REVISED -

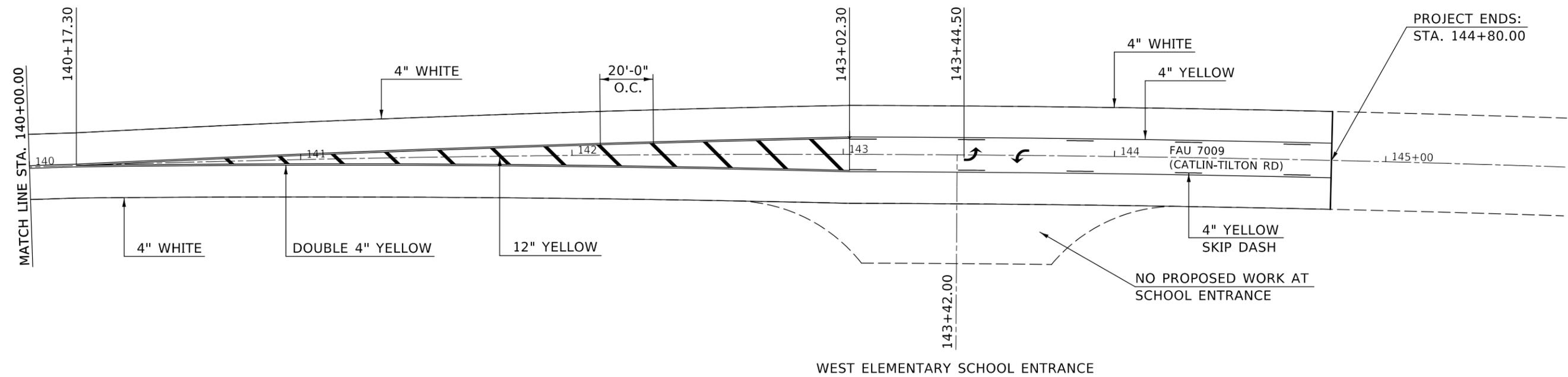
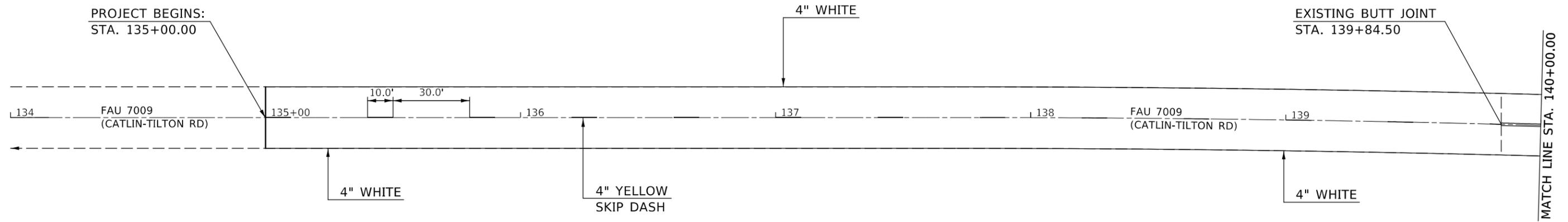
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7009	(34)RS-2	VERMILION	12	7
CONTRACT NO. 70D06				
ILLINOIS FED. AID PROJECT				

# PAVING AND PAVEMENT MARKING PLAN



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

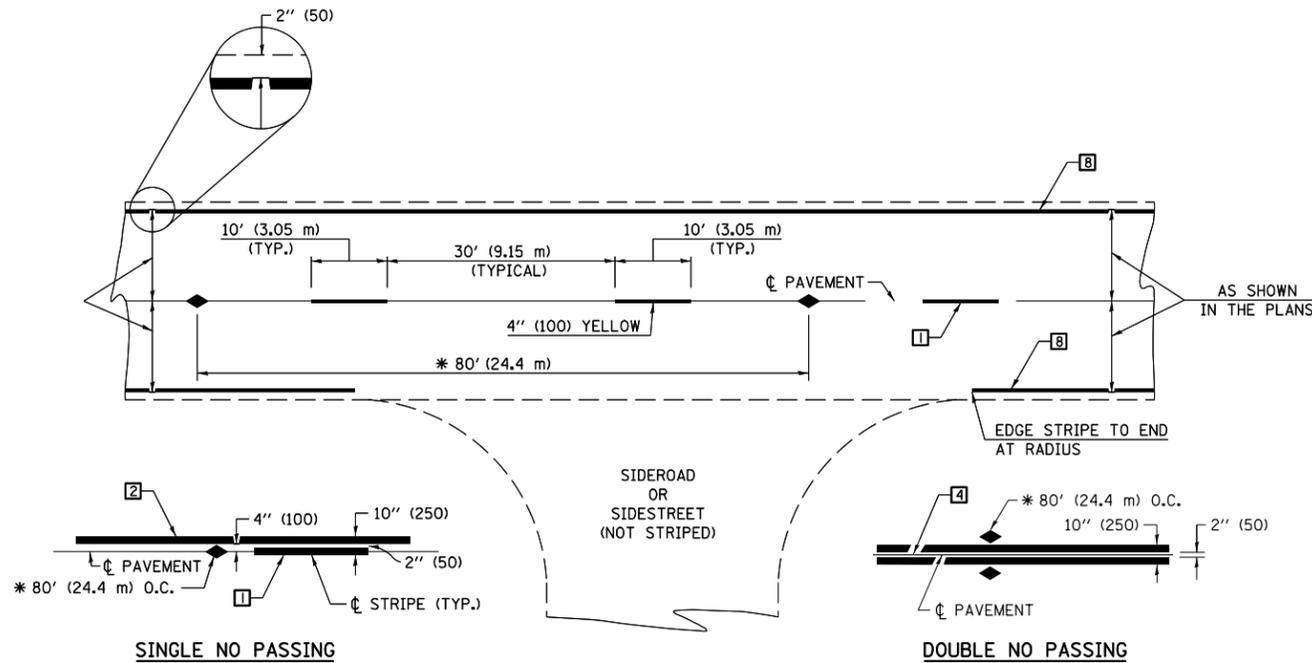
**PAVEMENT MARKING PLAN**

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/2/2018	DATE -	REVISED -

SCALE: SHEET 1 OF 1 SHEETS STA. 139+84.30 TO STA. 147+73.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7009	(34)RS-2	VERMILION	12	8
CONTRACT NO. 70D06				
ILLINOIS FED. AID PROJECT				

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\* 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**

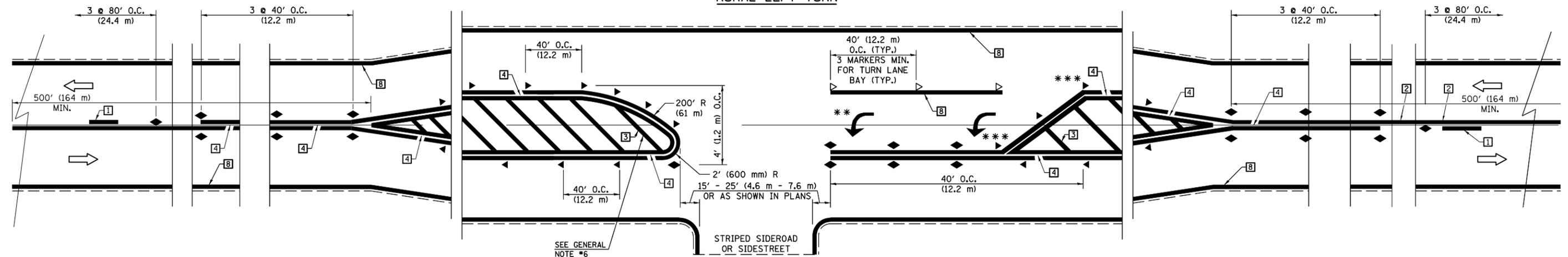
**TYPICAL PAVEMENT MARKING LEGEND**

- 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**

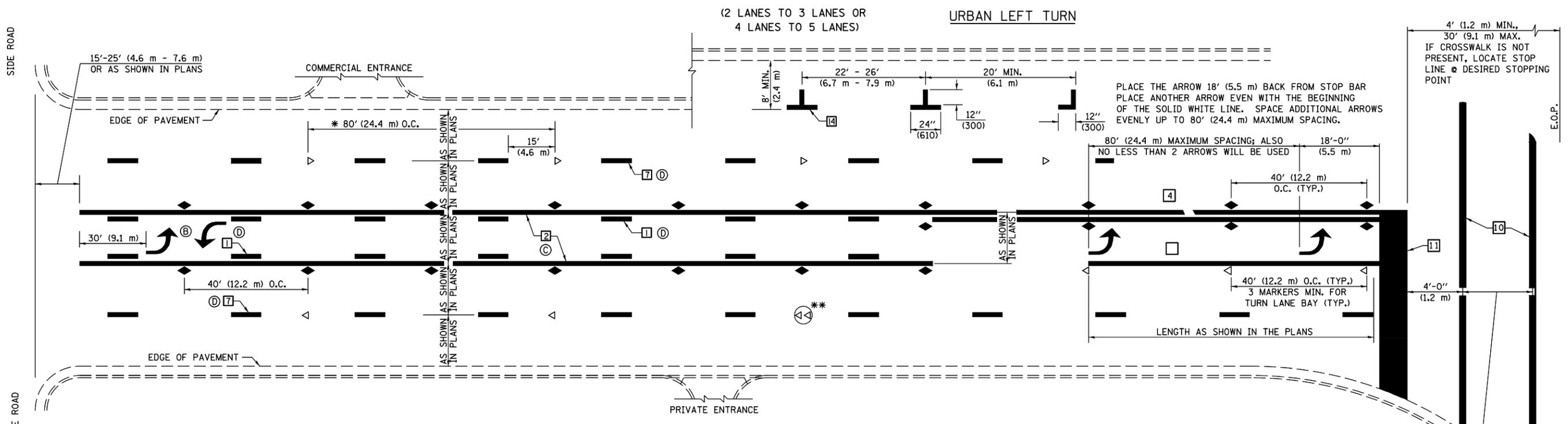


\*\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.  
 \*\* TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

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

**DISTRICT 5 DETAIL NO. 7800AAAA**

FILE NAME =	USER NAME = eaglinge	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND MARKERS (RURAL AND URBAN APPLICATIONS)</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70D06							
*MODELNAME*	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

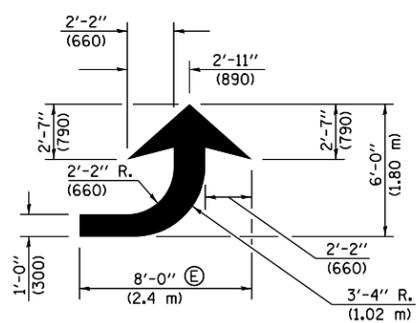


\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

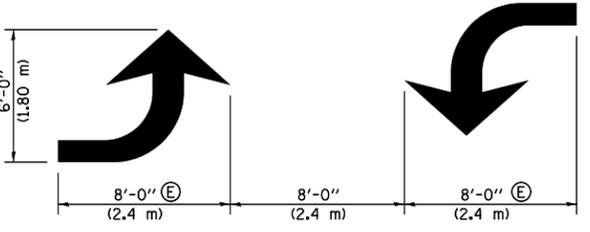
**GENERAL NOTES:**

- ⓑ 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.
- ⓒ 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.
- ⓓ 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.
- ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



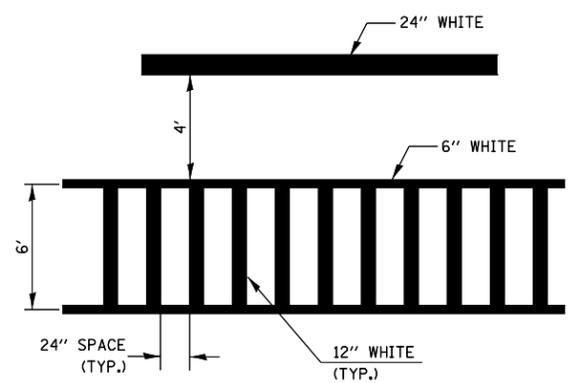
**LEFT ARROW**

REVERSE FOR RIGHT ARROW  
AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
(WHITE)

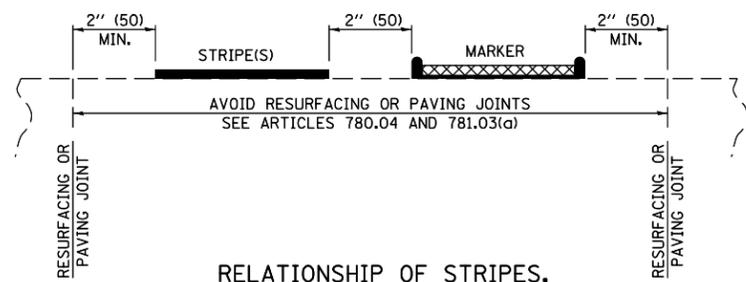


**TYPICAL DOUBLE TURN ARROWS (WHITE)**

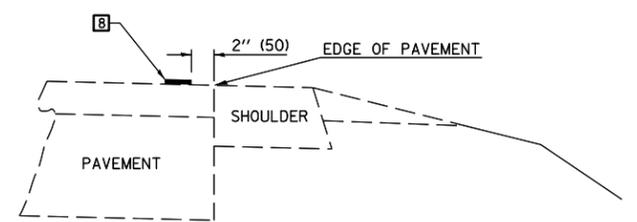
**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



**TYPICAL SPACING FOR CROSSWALKS & STOP BARS**



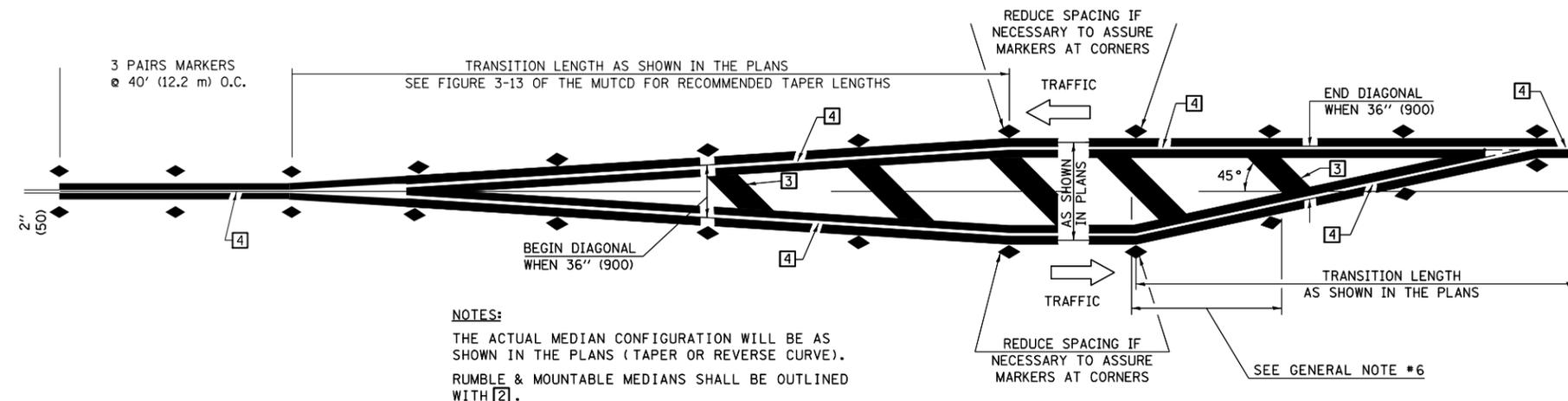
**RELATIONSHIP OF STRIPES, MARKERS AND JOINTS**



**RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT (SAFETY SHOULDER OR PAVED SURFACE) SEE ARTICLE 780.04**

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

FILE NAME =	USER NAME = eaglinge	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND MARKERS (RURAL AND URBAN APPLICATIONS)</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 70D06				
*MODELNAME*		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

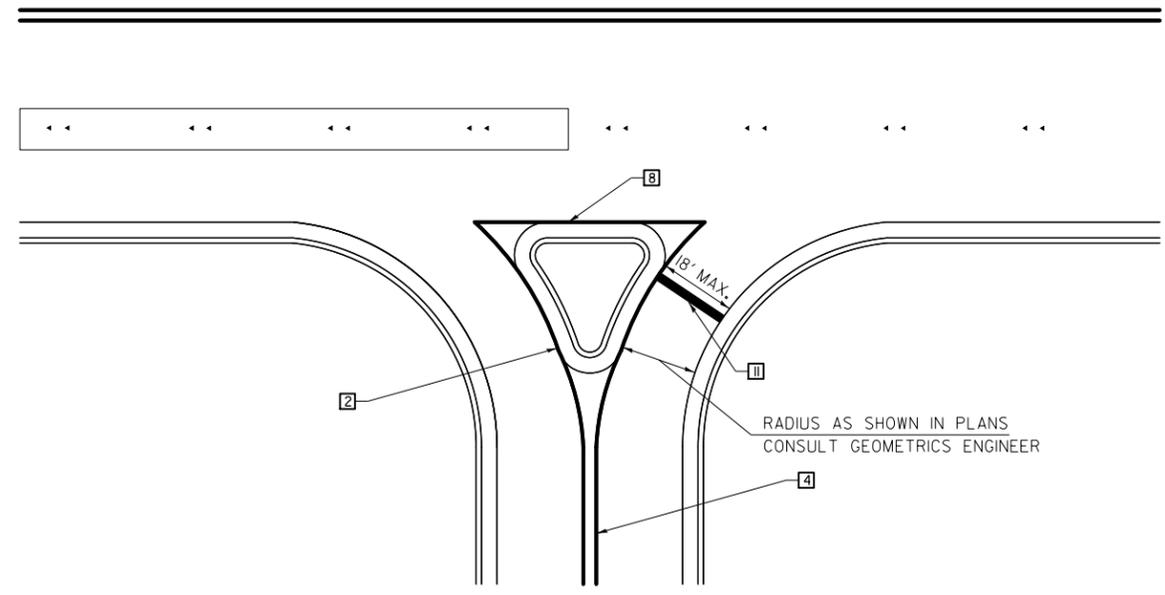


**NOTES:**  
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).  
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

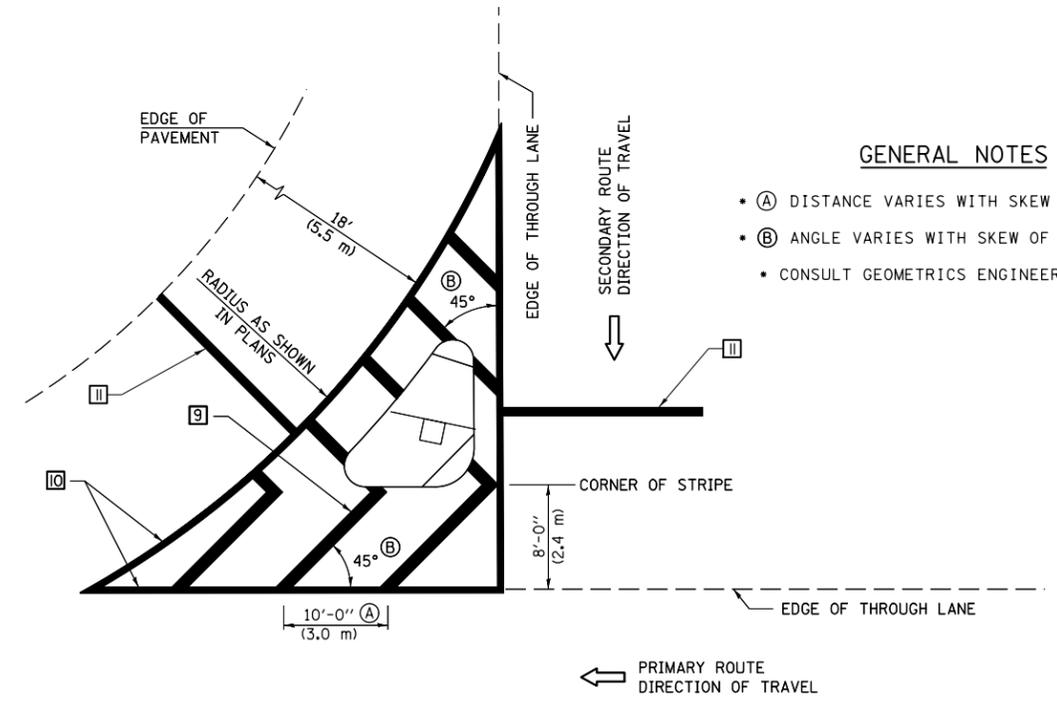
**TYPICAL MEDIAN TRANSITIONS**

**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.

**DISTRICT 5 DETAIL NO. 7800AAAA**

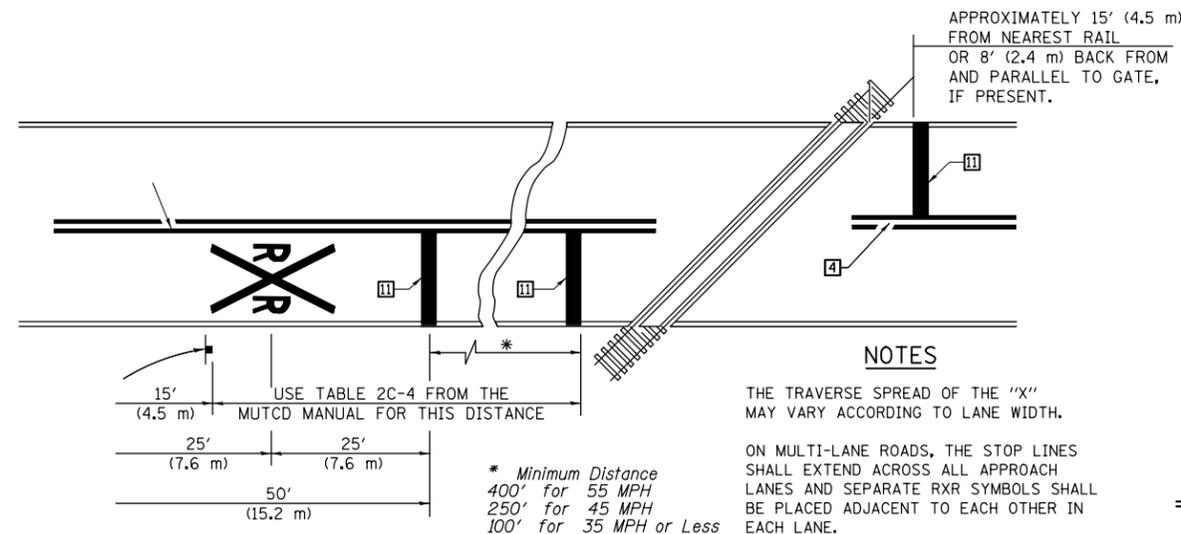
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\$MODELNAME\$	PLOT DATE = 2/2/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
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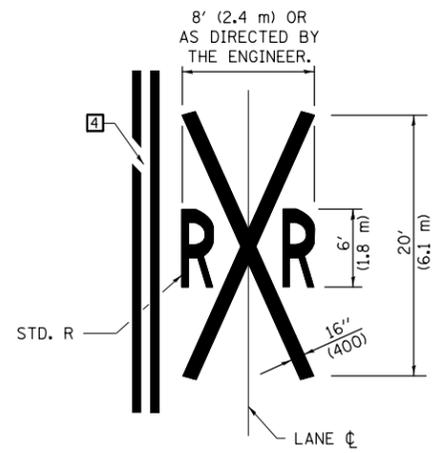
**PAVEMENT MARKING AND MARKERS  
 (RURAL AND URBAN APPLICATIONS)**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

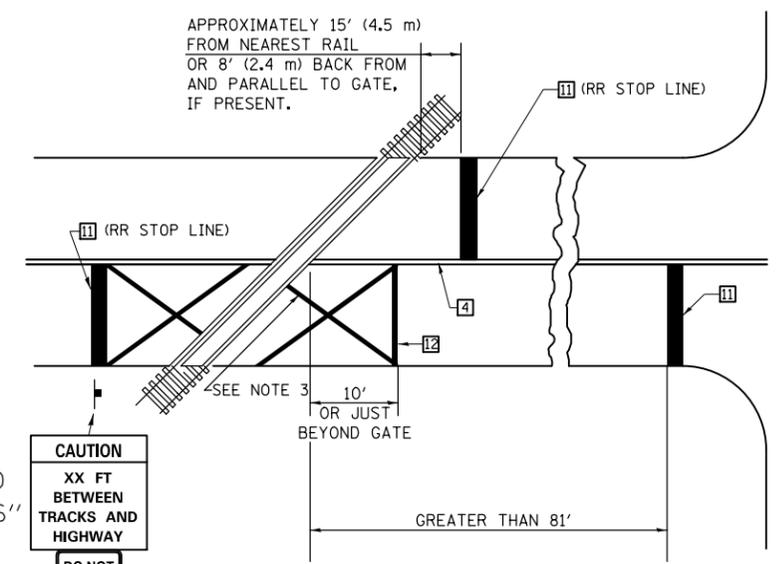
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7009	(34)RS-2	VERMILION	12	11
CONTRACT NO. 70D06				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING**



**RAILROAD CROSSING WITH INTERCONNECT ONLY**



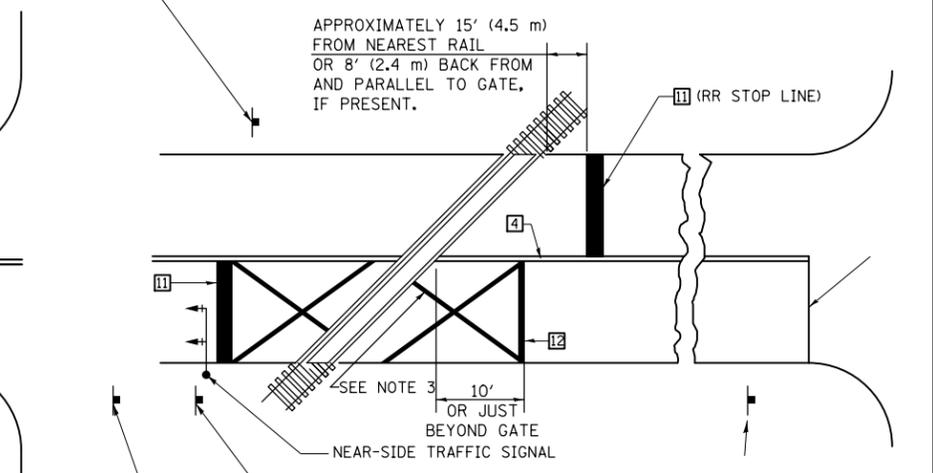
W10-I100  
30" X 36"

CAUTION  
XX FT  
BETWEEN  
TRACKS AND  
HIGHWAY

DO NOT  
STOP  
ON  
TRACKS

R8-8  
24" X 30"

**RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS**



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

ONLY IF SIGNAL HEAD CANNOT BE LOCATED IN MEDIAN

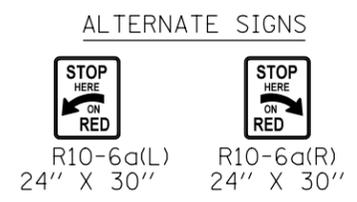
DO NOT STOP ON TRACKS

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

**SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING**



**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.