

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

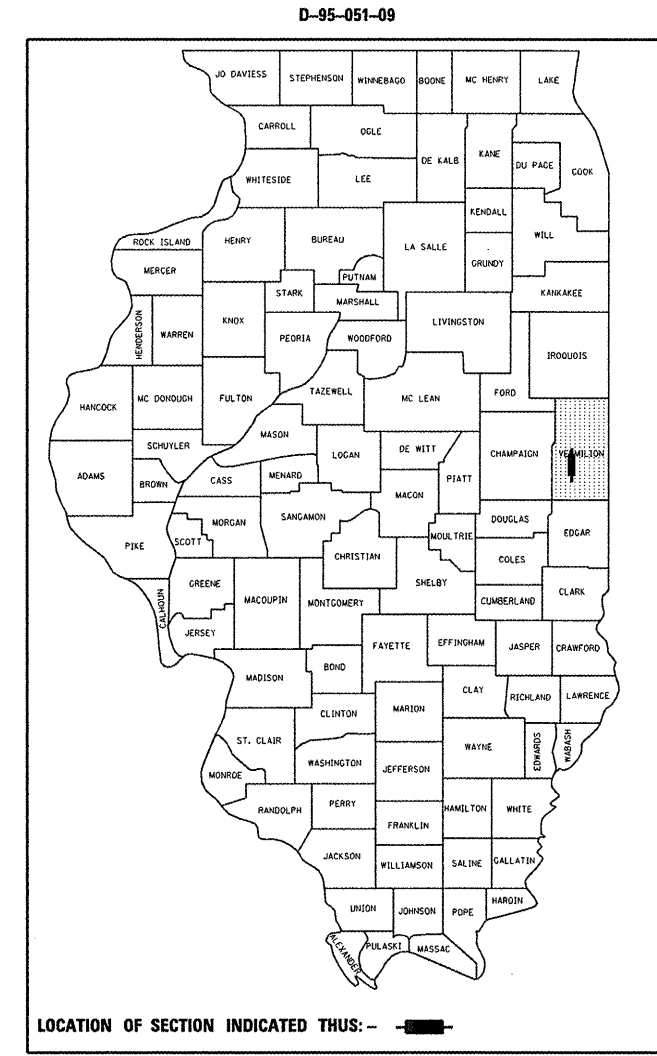
FAS ROUTE 331 (OAKWOOD RD)
SECTION (81,15D)PT

PATCHING
VERMILION COUNTY
FROM SOUTH OF US 150 TO
HOMER-CATLIN ROAD
C-95-051-09

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(81,15D)PT	VERMILION	11	1
		ILLINOIS	CONTRACT NO. 70818	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

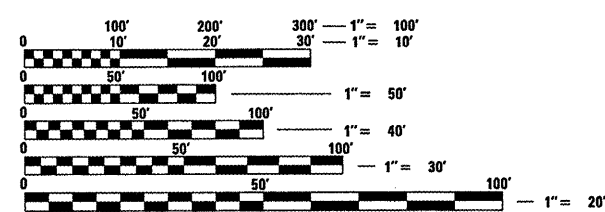
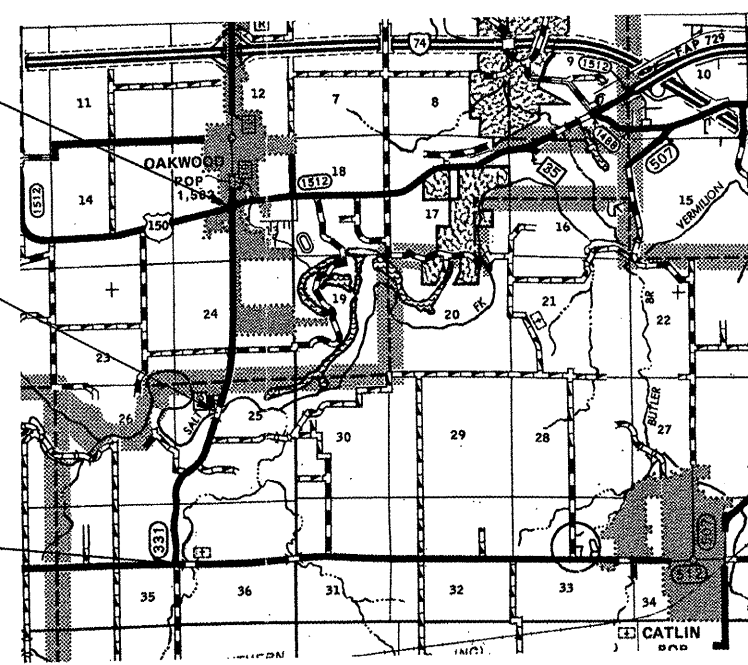
CURRENT ADT:
4100 (2009)



SECTION (81,15D)PT
BEGIN STATION 0+11.71

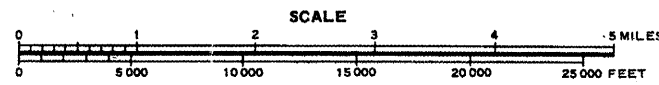
BRIDGE OMISSION
STA. 90+06.21 TO STA. 94+03.79

SECTION (81,15D)PT
END STATION 166+26.98



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



GROSS LENGTH = 16615.27 FT. = 3.147 MILE
NET LENGTH = 16217.69 FT. = 3.072 MILE

PROJECT ENGINEER: KEVIN TRAPP
SQUAD LEADER: MATT BOWER
DESIGNER: DAN CRADDOCK
CONTRACT NO. 70818

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 1/21 2010

Joseph E. Goveas
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 19, 2010
Scott E. Stett, P.E.
Acting ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2010
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS / HIGHWAY STANDARDS
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-6	EXISTING TYPICAL CROSS SECTIONS
7	SCHEDULE OF QUANTITIES
8-11	TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS (RURAL & URBAN APPLICATIONS)

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-07	PAVEMENT JOINTS
420701-02	PAVEMENT FABRIC
442101-07	CLASS B PATCHES
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATION - DAY ONLY
701336-05	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS

G.N.-100
 ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT.
 WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-442B -- PATCHING SCHEDULES
 THE PATCHING SCHEDULES INCLUDED IN THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS
 FOR LETTING. VARIATIONS IN LOCATION AND SIZES OF BOTH FULL-DEPTH AND PARTIAL-DEPTH PATCHES MAY OCCUR.

G.N.-780 SPECIAL
 PAINT PAVEMENT MARKINGS SHALL BE APPLIED UPON COMPLETION OF THE PATCH WORK. PAINT PAVEMENT MARKINGS SHALL COINCIDE WITH
 THE EXISTING PAVEMENT MARKINGS. PAINT PAVEMENT MARKINGS SHALL BE LIMITED ONLY TO LENGTH SEGMENTS ASSOCIATED WITH INDIVIDUAL
 PATCH LOCATIONS AND SHALL NOT BE APPLIED CONTINUOUSLY THROUGH THE PROJECT BETWEEN PATCH LOCATIONS.

FILE NAME :	USER NAME = bowerm1	DESIGNED <i>DJC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cd:\pw_work\PIWIDOT\BOWERML\0179880\70818	INDEX_STD_GEN.dgn	DRAWN <i>MLB</i>	REVISED -		331	(81,15D)PT	VERMILION	11	2				
	PLOT SCALE = 40.0000' / IN.	CHECKED <i>MLB</i>	REVISED -		CONTRACT NO. 70818								
	PLOT DATE = 1/21/2010	DATE <i>1/04/2010</i>	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

LOCATION OF WORK: FAS 331(OAKWOOD RD)
VERMILION COUNTY
STA 0+11.71
STA 166+26.98

FUNDING BREAKOUT: 100 % STATE

CONSTRUCTION TYPE CODE: J000

CODE NO	ITEM	UNIT	TOTAL QUANTITY
44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD	653.0
44200942	CLASS B PATCHES, TYPE III, 8 INCH	SQ YD	123.0
44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	80.0
44213100	PAVEMENT FABRIC	SQ YD	202.0
44213200	SAW CUTS	FOOT	3,939.0
67100100	MOBILIZATION	L SUM	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	927.0
Z0017100	DOWEL BARS	EACH	1,804.0
Z0075300	TIE BARS	EACH	93.0

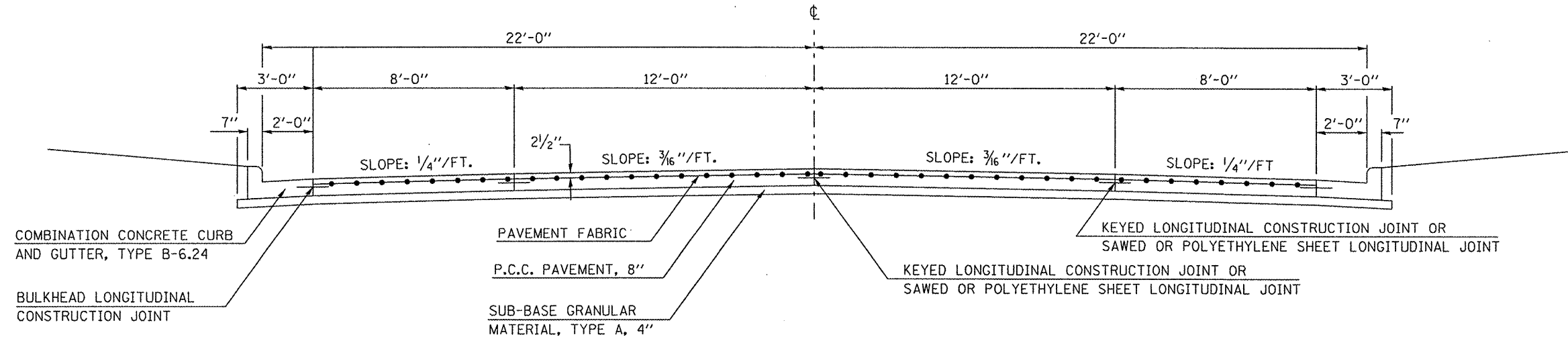
*SPECIALTY ITEMS

FILE NAME =	USER NAME = bowerm1	DESIGNED DJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwsdot\bowerm1\d0179880\70818	S00.dgn	DRAWN MLB	REVISED -						331	(81,150)PT	VERMILION	11	3
PLOT SCALE = 40,0000 ' / IN.	CHECKED MLB	REVISED -			CONTRACT NO. 70818				ILLINOIS FED. AID PROJECT				
PLOT DATE = 2/8/2010	DATE 1/04/2010	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				

EXISTING TYPICAL CROSS SECTION ①

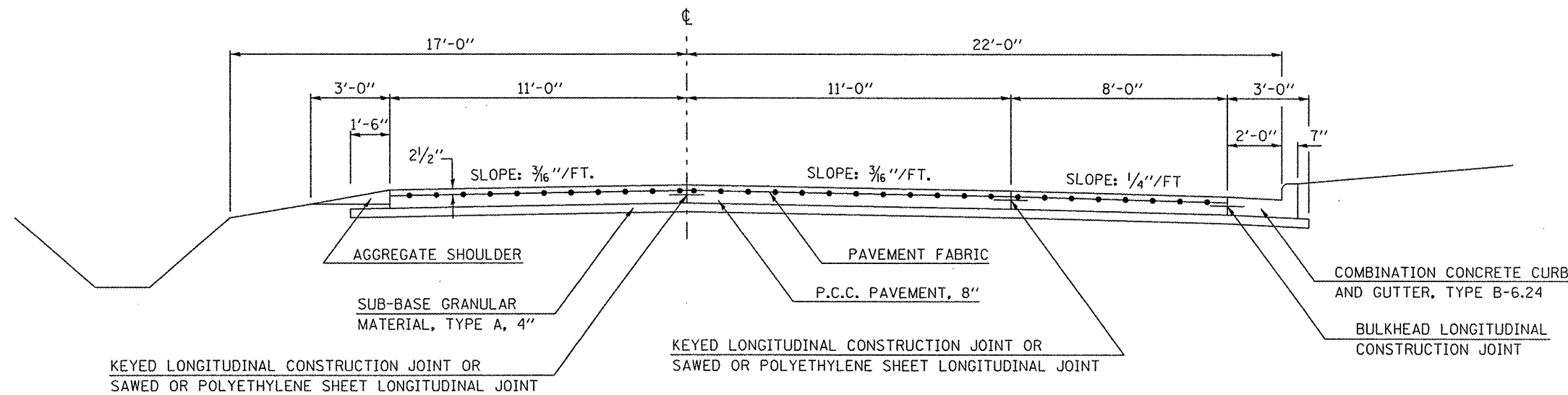
BOX CULVERT OMISSION
STA. 2+08.42 TO STA. 2+13.58

	STATION	TO	STATION
	0+11.71		2+08.42
	2+13.58		24+10.00
TRANSITION	24+10.00		25+00.00 ②



EXISTING TYPICAL CROSS SECTION ②

	STATION	TO	STATION
①	25+00.00		28+50.00
TRANSITION	28+50.00		30+00.00 ③



FILE NAME :	USER NAME :	DESIGNED :	REVISED :
c:\pw_work\PIWIDOT\BOWERML\d0179880\DS79818-shr-typic01.dgn	bowerml	-	-
PLOT SCALE = 40.0000' / IN.	DRAWN :	JDC	REVISED :
PLOT DATE = 1/21/2010	CHECKED :	-	REVISED :
	DATE :	-	REVISED :

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS

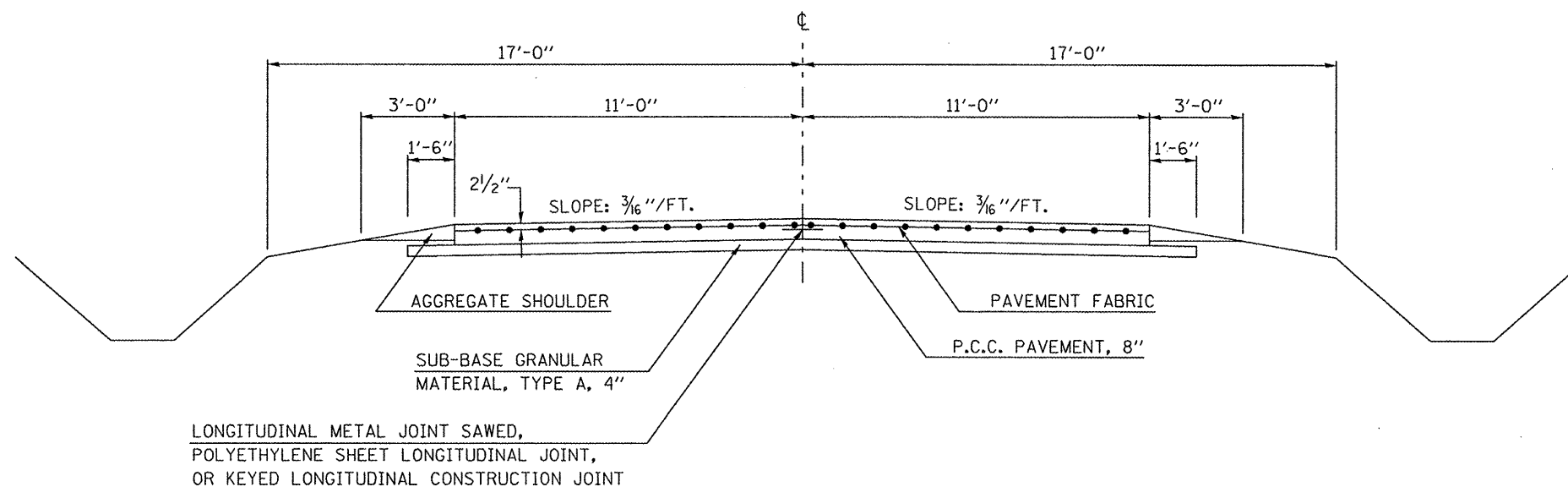
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(81,150)PT	Vermilion	11	4
CONTRACT NO. 70818				
ILLINOIS FED. AID PROJECT				

EXISTING TYPICAL CROSS SECTION ③

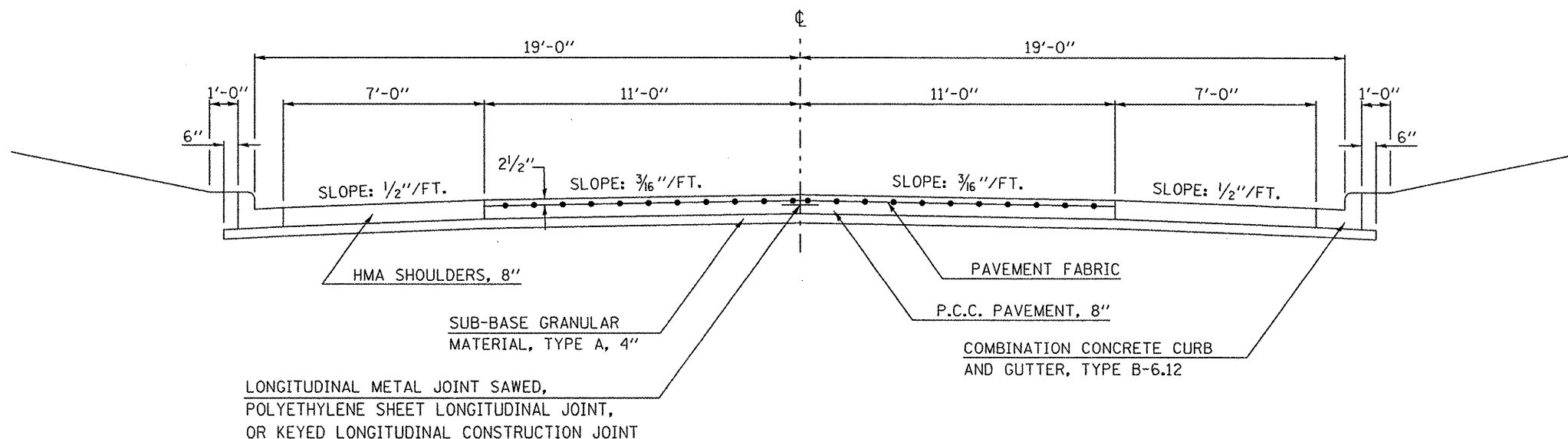
BRIDGE OMISSION
 SN. 092-0177
 STA. 89+06.21 TO STA. 95+03.79

STATION	TO	STATION
② 30+00.00		89+06.21
95+03.79		102+50.00 ④
⑤ 107+00.00		166+26.98



EXISTING TYPICAL CROSS SECTION ④

STATION	TO	STATION
③ 102+50.00		106+22.00 ⑤



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PLOT DATE = 1/21/2010		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

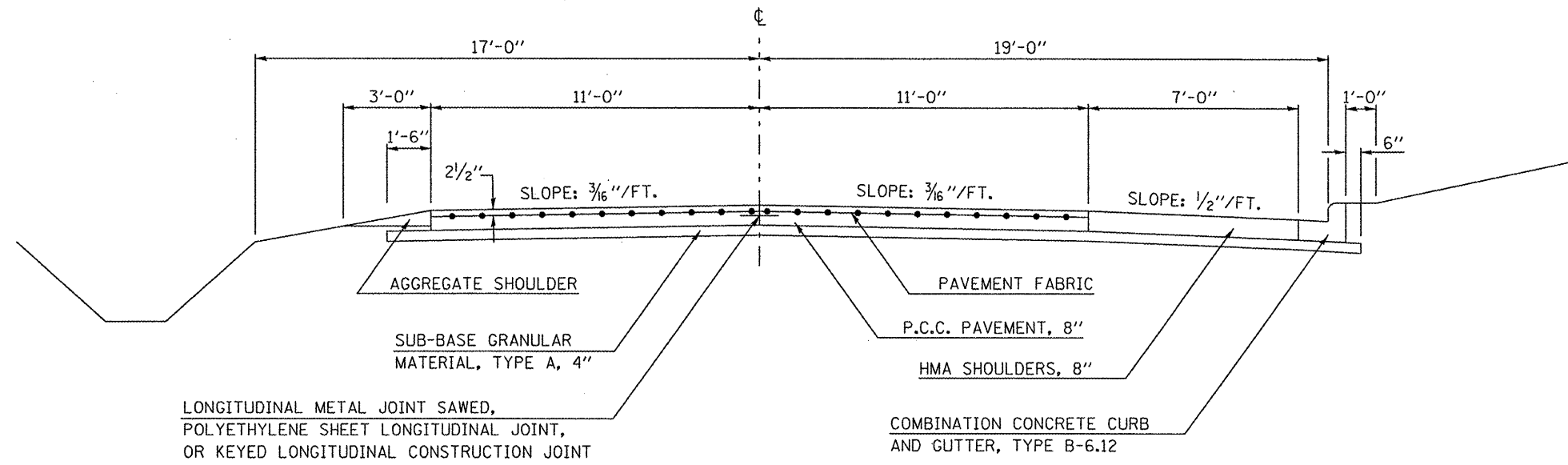
EXISTING TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(81,15D)PT	Vermilion	11	5
CONTRACT NO. 70818				
ILLINOIS FED. AID PROJECT				

EXISTING TYPICAL CROSS SECTION ⑤

STATION ④ 106+22.00 TO STATION 107+00.00 ③



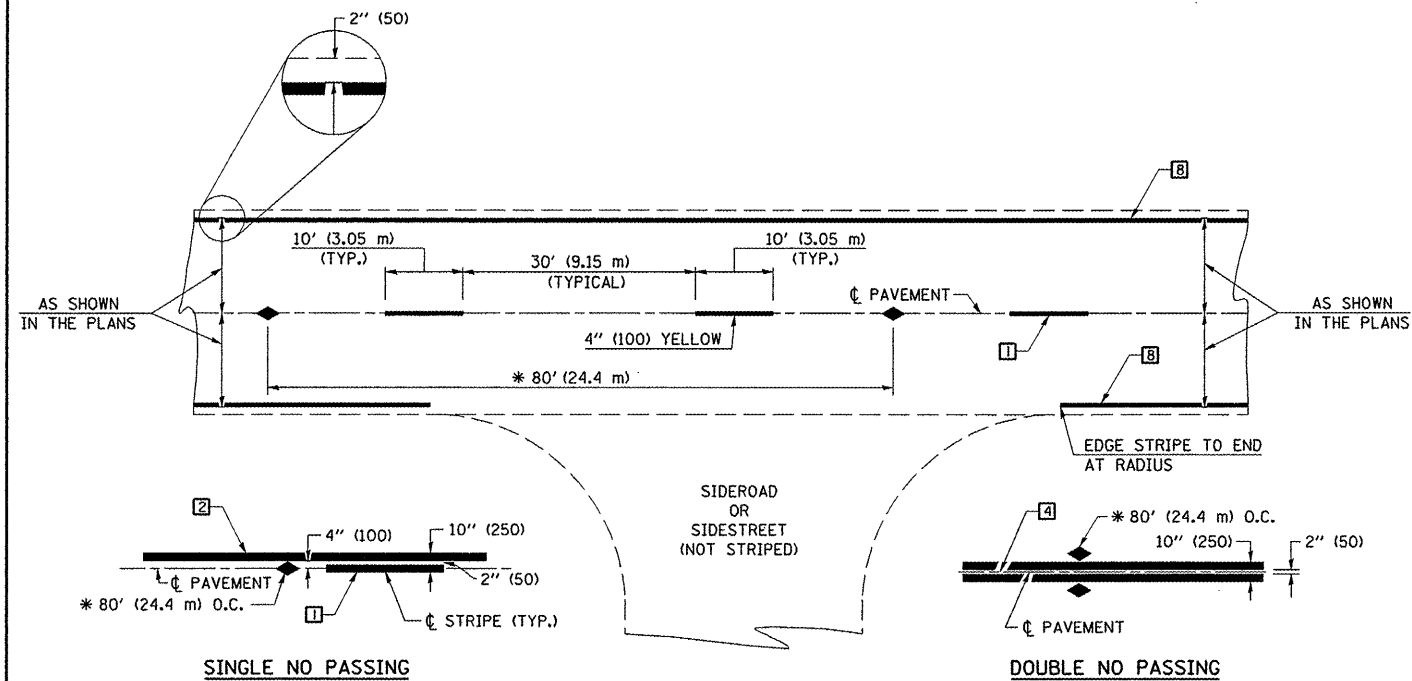
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PLOT DATE = 1/21/2010	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(B1,15D)PT	Vermilion	11	6
CONTRACT NO. 70818				
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

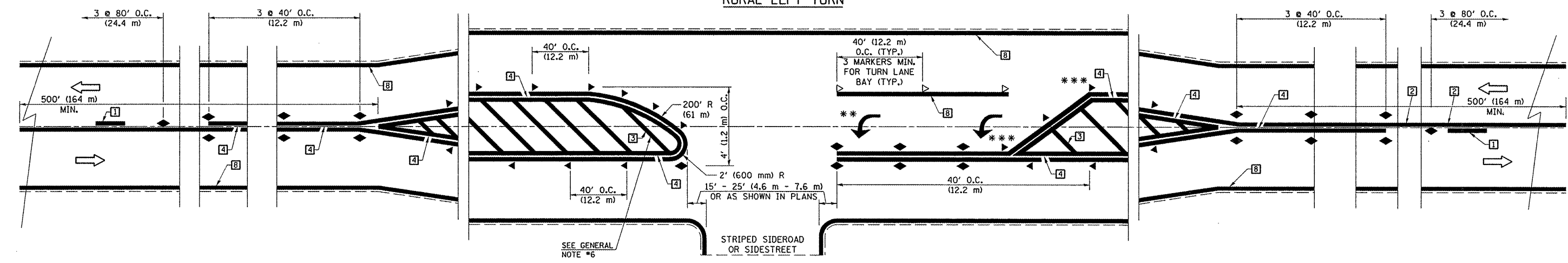
TYPICAL PAVEMENT MARKING LEGEND

- 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.

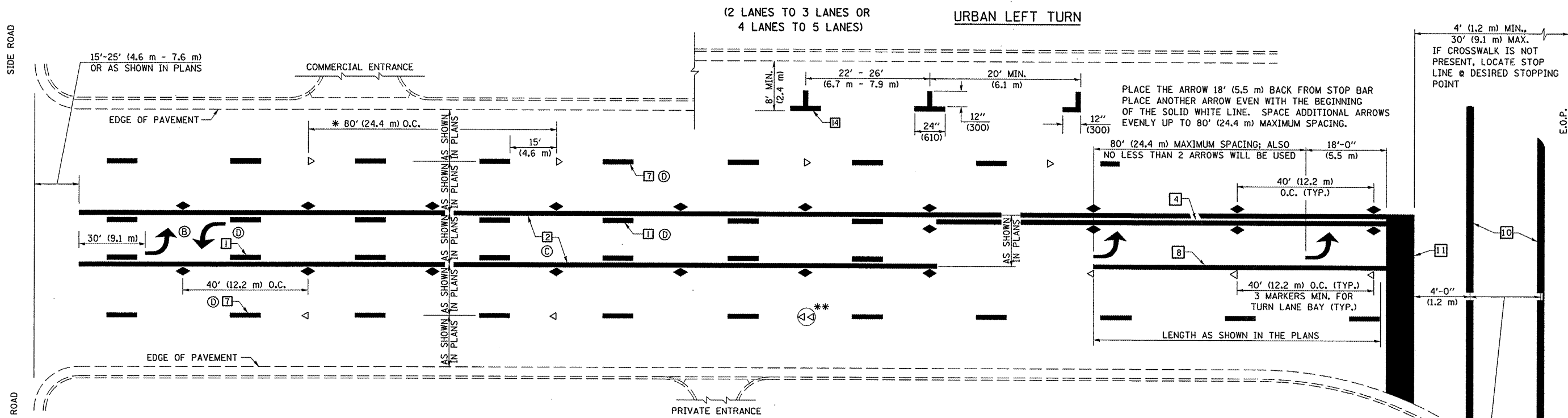
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = bowernl	DESIGNED DJC	REVISED -
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	PLOT DATE = 1/21/2010	DATE 1/04/2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

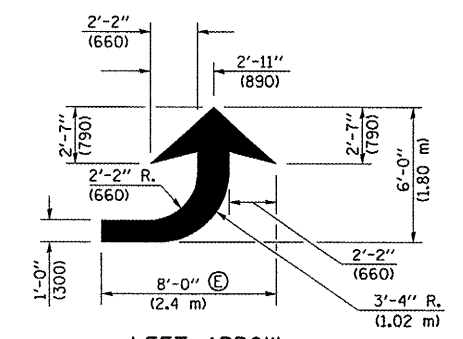
DISTRICT 5 DETAIL NO. 7800AAAA				
F.A.S. RTE. 331	SECTION (B1,15D)PT	COUNTY VERMILION	TOTAL SHEETS 11	SHEET NO. 8
CONTRACT NO. 70818				
ILLINOIS FED. AID PROJECT				



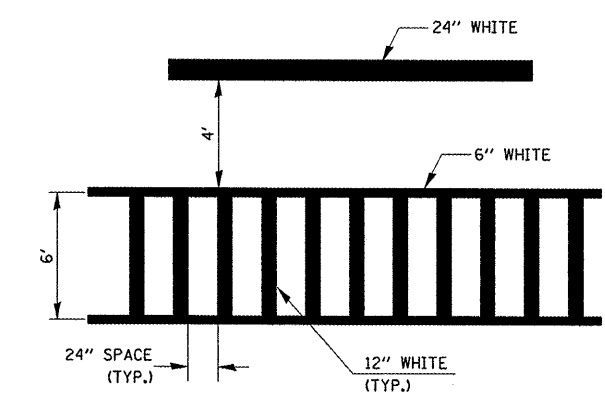
* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

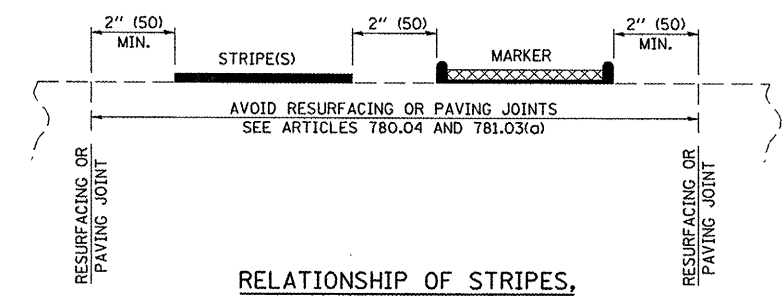
BLOOMINGTON-NORMAL CITY LIMITS ONLY



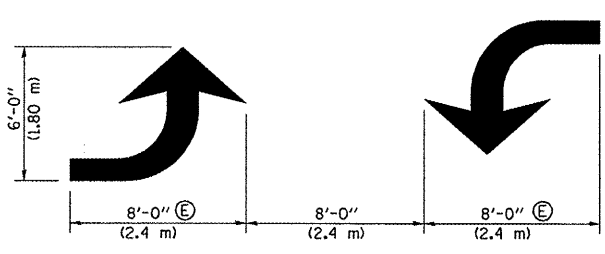
LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



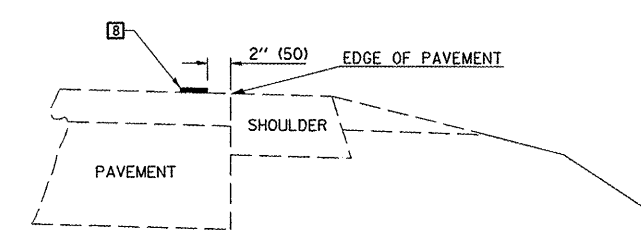
TYPICAL SPACING FOR CROSSWALKS & STOP BARS



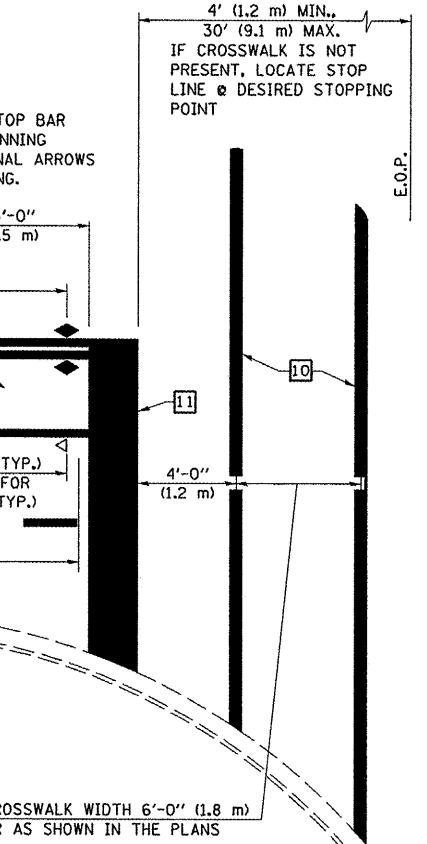
RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



TYPICAL DOUBLE TURN ARROWS (WHITE)



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

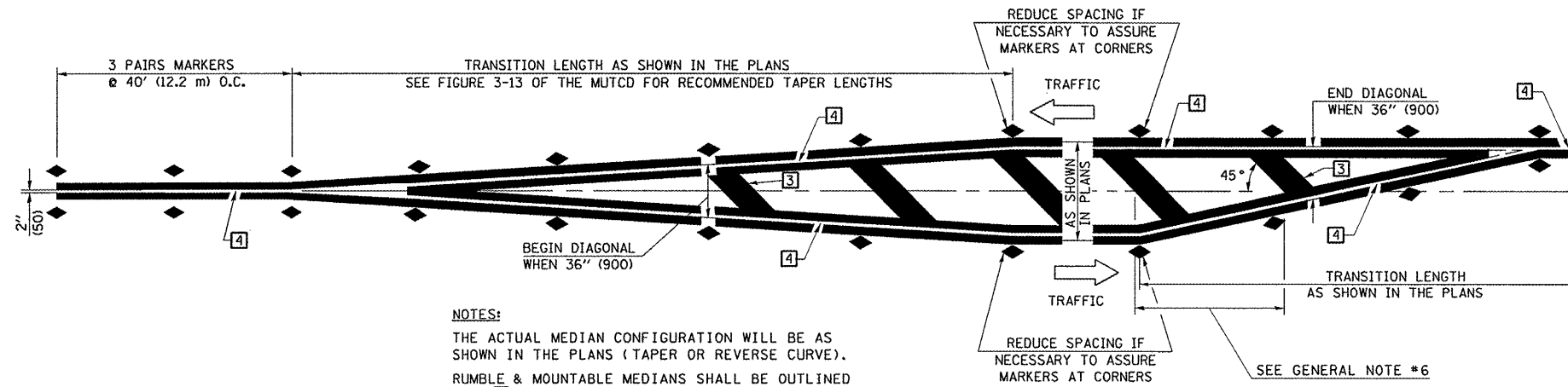


CROSSWALK WIDTH 6'-0" (1.8 m) OR AS SHOWN IN THE PLANS

- 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)

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

FILE NAME = c:\p\work\p\WIDOT\BOWE\ML\d0179880\70818 pavt mark details.dgn		USER NAME = bowerm1	DESIGNED DJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)			F.A.S. RTE. 331	SECTION (81,150)PT	COUNTY VERMILION	TOTAL SHEETS 11	SHEET NO. 9
PLOT SCALE = 48,0000 "/ IN.		CHECKED MLB	DATE 1/04/2010	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 70818		
PLOT DATE = 1/21/2010		DATE	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							
DISTRICT 5 DETAIL NO. 7800AAAA													

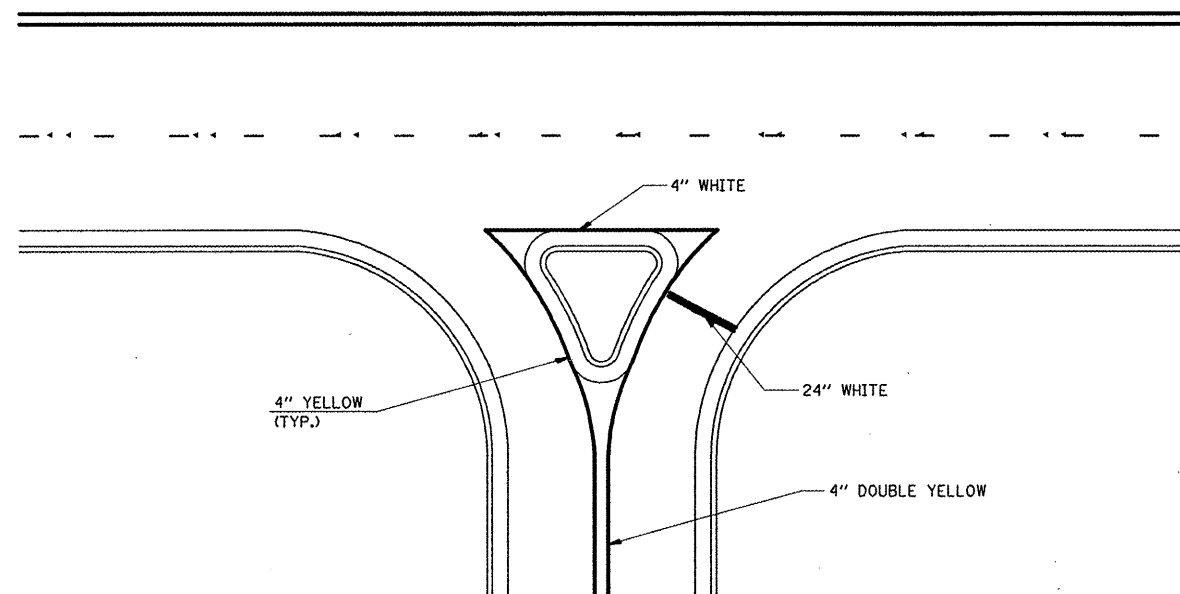


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

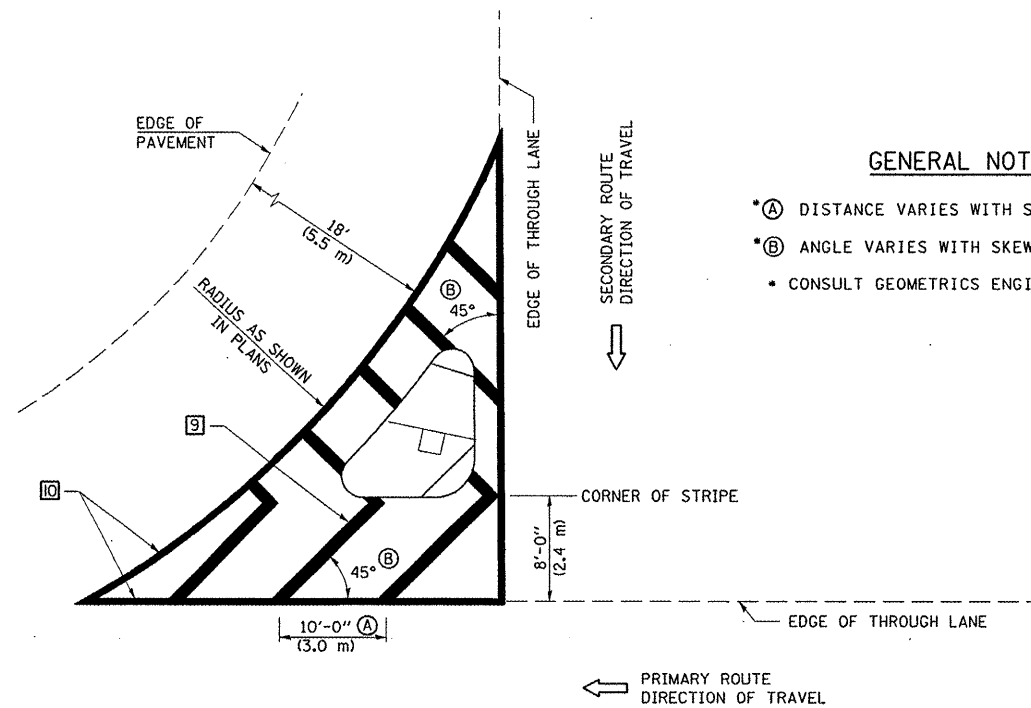
TYPICAL MEDIAN TRANSITIONS

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.

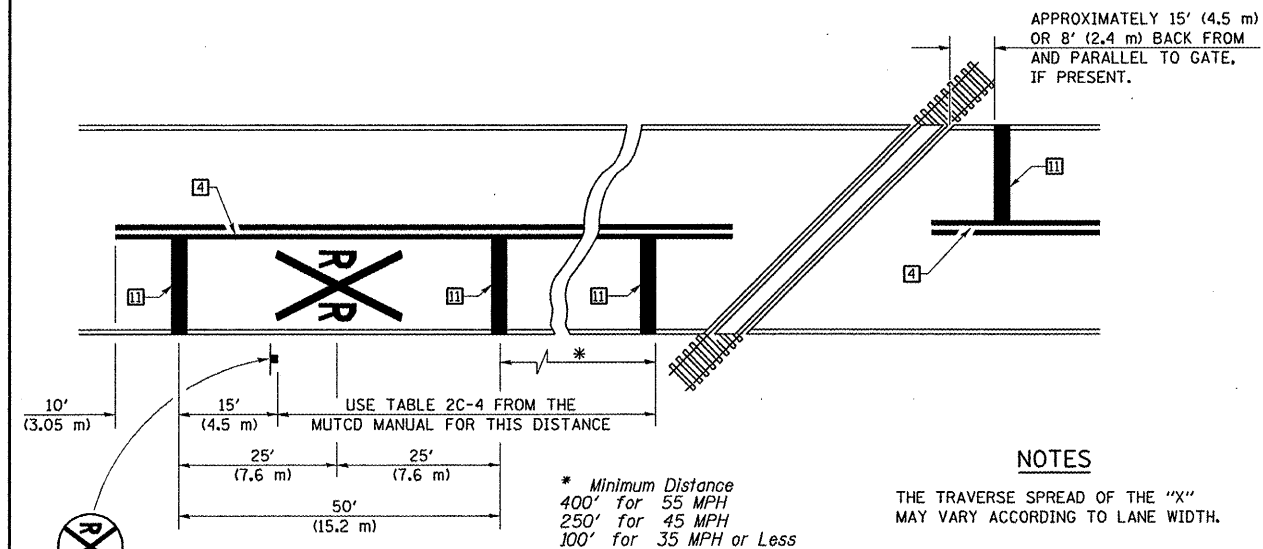
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	PLOT SCALE = 40.0000' / IN.	CHECKED MLB	REVISED -
	PLOT DATE = 1/21/2010	DATE 1/04/2010	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

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

DISTRICT 5 DETAIL NO. 7800AAAA				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(81.15D)PT	VERMILION	11	10
CONTRACT NO. 70818				
ILLINOIS FED. AID PROJECT				

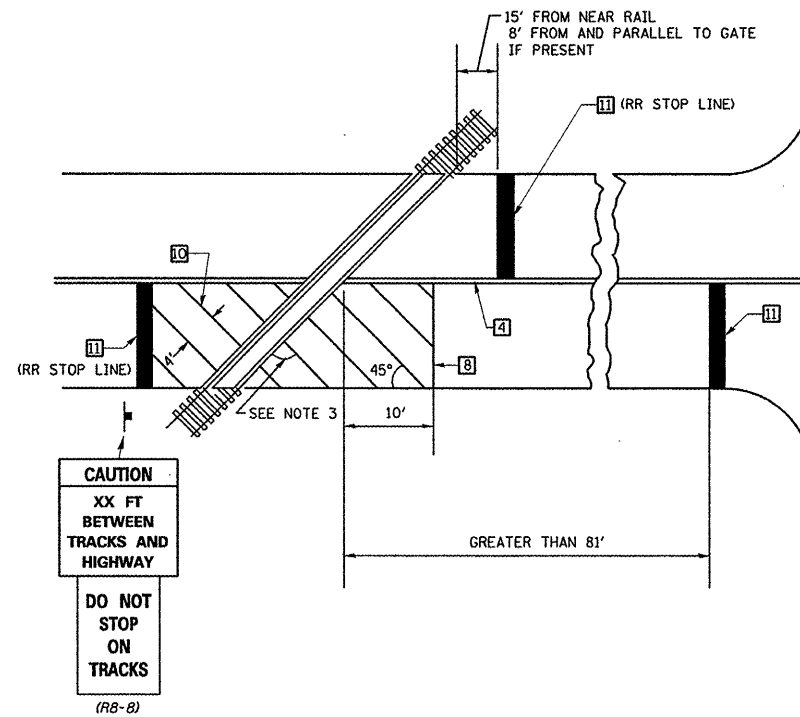


PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

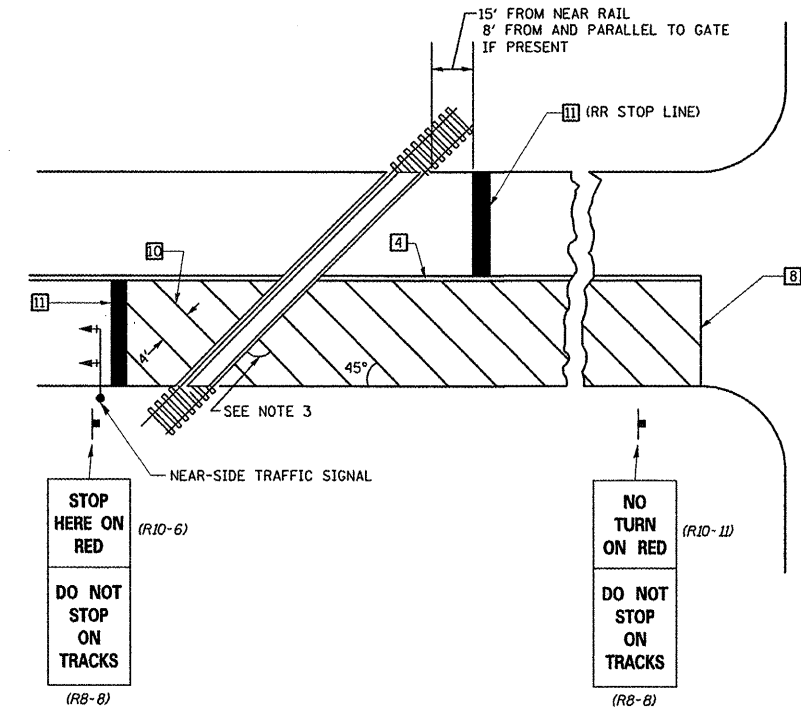
NOTES

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.

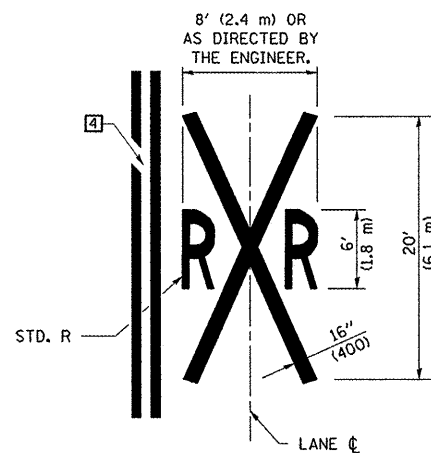
RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



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.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

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

FILE NAME =	USER NAME = bowerml	DESIGNED DJC	REVISED -
c:\pwork\PM1001\BOWERML\08179880\708	pavt mark details.dgn	DRAWN MLB	REVISED -
	PLOT SCALE = 48,0000 "/ IN.	CHECKED MLB	REVISED -
	PLOT DATE = 1/21/2010	DATE 1/04/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

DISTRICT 5 DETAIL NO. 7800AAAA				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(B1,15D)PT	VERMILION	11	11
CONTRACT NO. 70818				
ILLINOIS FED. AID PROJECT				

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