

06-14-13 LETTING ITEM 070

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAS ROUTE 522 (SIDNEY-LONGVIEW RD.)  
SECTION (41,41-15D)Q  
PROJECT F-0522(119)  
SEAL COAT  
CHAMPAIGN COUNTY

C-95-001-13

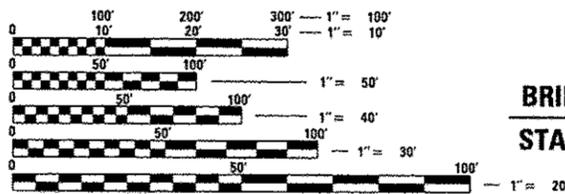
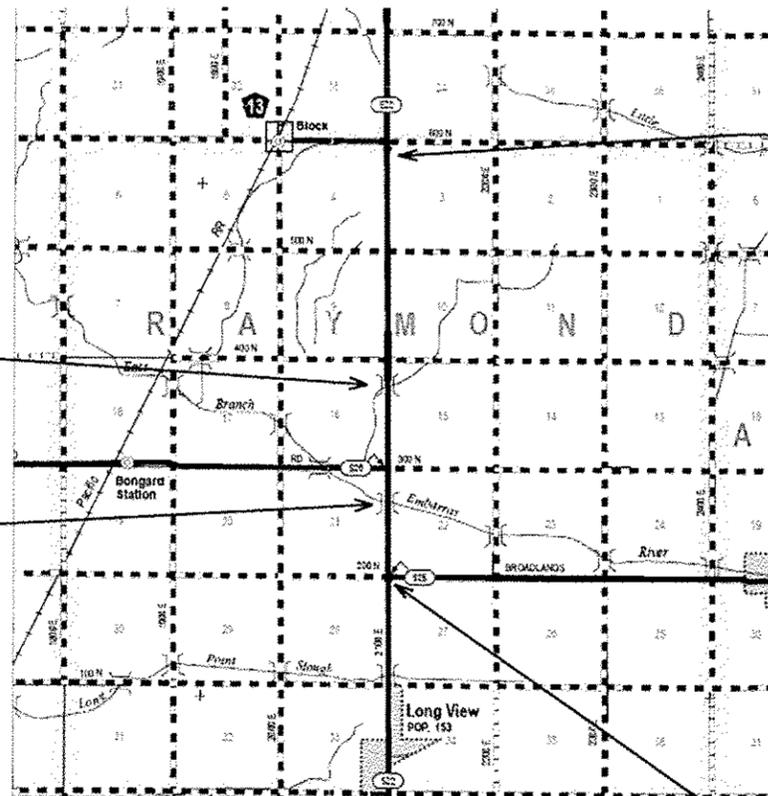
BLOCK RD. TO BROADLANDS RD.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(41,41-15D)Q	Champaign	15	1
		ILLINOIS	CONTRACT NO. 70A09	

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

DESIGN DESIGNATION:  
MAJOR COLLECTOR

CURRENT ADT: (2012)  
750



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 RAYMOND TOWNSHIP

PROJECT ENGINEER: JASON STULTS (217-465-4181)  
PROJECT MANAGER: RUSTIN KEYS  
DESIGNER : KARY DAWSON  
CONTRACT NO. 70A09

GROSS LENGTH = 20,817.30 FT. = 3.943 MILE  
NET LENGTH = 20,698.80 FT. = 3.920 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *January 30* 20 *13*

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER *[Signature]*

*May 10* 20 *13*  
*John D. Baranzelli, P.E.*  
ENGINEER OF DESIGN AND ENVIRONMENT

*May 10* 20 *13*  
*Omer Osman, P.E.*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS & LIST OF HIGHWAY STANDARDS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5-8	EXISTING & PROPOSED TYPICAL SECTIONS
9-10	SCHEDULE OF QUANTITIES
11-14	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS) DETAIL
15	SURVEY MONUMENT COVER ASSEMBLY DETAIL

## HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
667101-02	PERMANENT SUREY MARKERS
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701901-02	TRAFFIC CONTROL DEVICES

FILE NAME =	USER NAME = dawsankb	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS AND HIGHWAY STANDARDS</b>	F.A.S. RTE. 522	SECTION (41,41-150)Q	COUNTY Champaign	TOTAL SHEETS 15	SHEET NO. 2
c:\pwwork\pwwork\dawsankb\00327346\0573468-shr-genote.dgn	PLOT SCALE = 48,0000 / 1" = 1 mi	DRAWN -	REVISED -	SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 70A09		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 1/31/2013	CHECKED -	REVISED -							
		DATE -	REVISED -							

## GENERAL NOTES

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.-100A  
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-105.09A  
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.37  
UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123 OR 811.

G.N.-403 (SPEC.)  
BITUMINOUS SURFACE TREATMENTS:  
GRADATION CA-16 (MID-SPEC.) IS ASSUMED FOR SEAL COATS.

THE RESULTING TARGET APPLICATION RATES ARE AS FOLLOWS:

TYPE OF CONSTRUCTION	BITUMINOUS MATERIAL	APPLICATION RATE	AGGREGATE	APPLICATION RATE
A-1	HFP OR CRSP OIL	0.4 GAL/SQ.YD	CA-16	25 LB/SQ.YD
A-2	HFP OR CRSP OIL	0.5 GAL/SQ.YD	CA-16	25 LB/SQ.YD

NOTE: THE ENGINEER RESERVES THE RIGHT TO ADJUST THE TARGET APPLICATION RATES AND THE QUANTITIES.

G.N.-440 (SPEC.)  
ALL EXISTING TYPE B MODIFIED GUTTER SHALL BE CLEANED OF ALL DEBRIS (AGGREGATE MATERIAL, ETC.) BOTH PRIOR TO AND AFTER THE SEAL COATING OPERATIONS TO ENSURE PROPER DRAINAGE. THE COSTS SHALL BE INCLUDED IN THE VARIOUS SEAL COATING PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-667  
THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S, AND PIS). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR LAYOUT

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

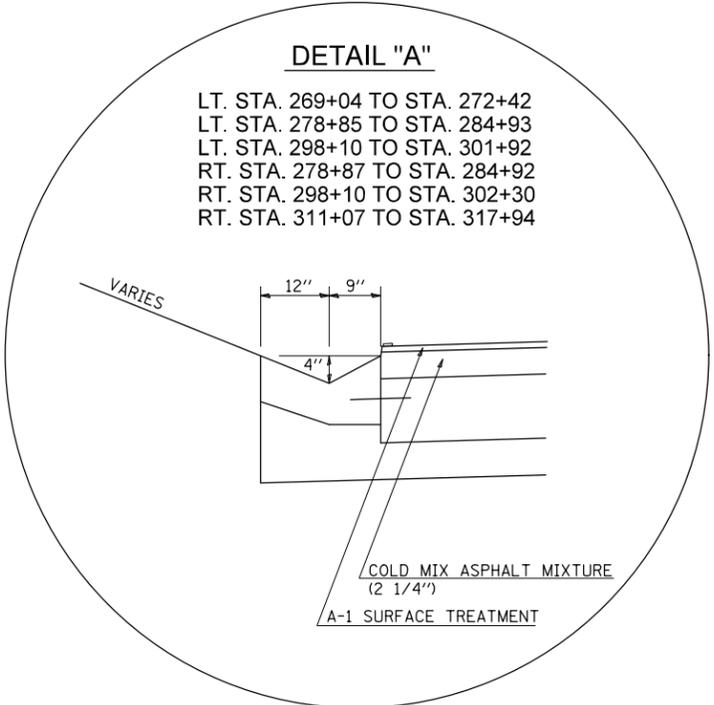
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PLLOT SCALE : 40.0000' / 1" =	CHECKED - _____	REVISED - _____	522			(41,41-150)0	Champaign	15	3	
PLLOT DATE : 1/31/2013	DATE - _____	REVISED - _____	CONTRACT NO. 70A09							
SCALE: _____ SHEET _____ OF _____ SHEETS   STA. _____ TO STA. _____						(ILLINOIS) FED. AID PROJECT				



**GUTTER LOCATIONS**

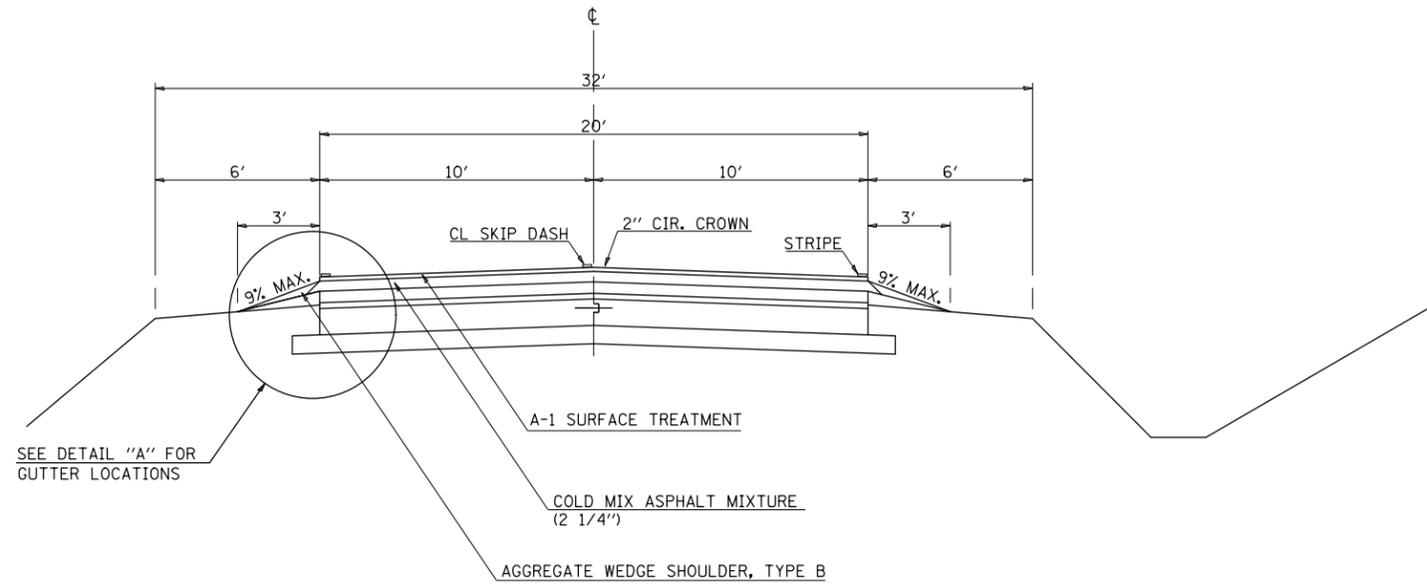
**DETAIL "A"**

LT. STA. 269+04 TO STA. 272+42  
 LT. STA. 278+85 TO STA. 284+93  
 LT. STA. 298+10 TO STA. 301+92  
 RT. STA. 278+87 TO STA. 284+92  
 RT. STA. 298+10 TO STA. 302+30  
 RT. STA. 311+07 TO STA. 317+94



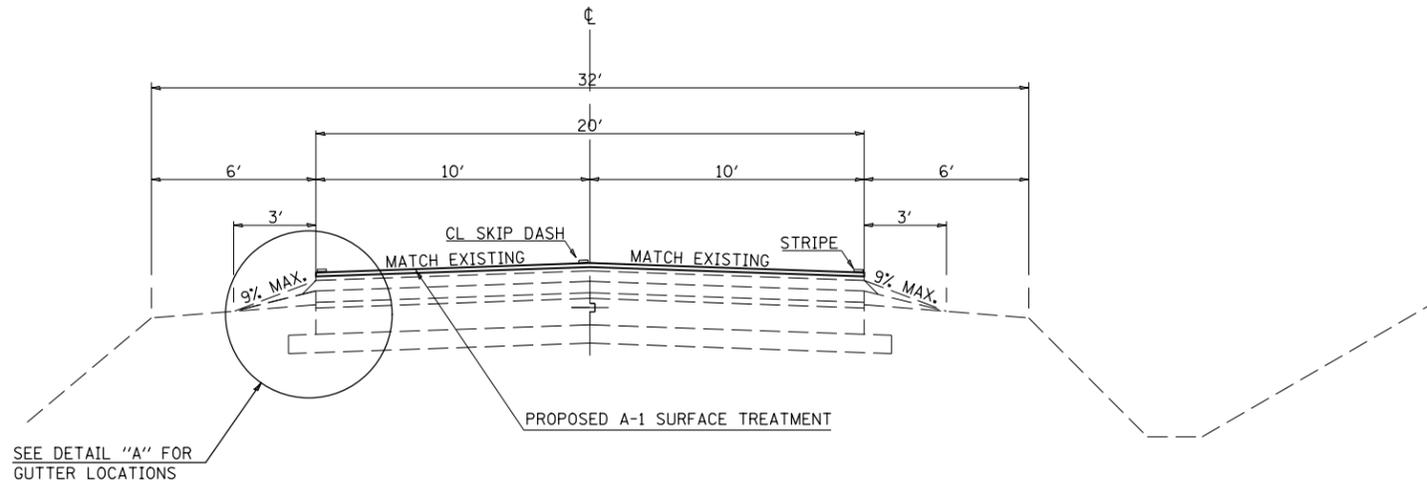
**EXISTING TYPICAL SECTION**

STA. 217+49 TO STA. 225+49  
 STA. 230+49 TO STA. 236+99  
 STA. 240+49 TO STA. 244+49  
 STA. 265+49 TO STA. 322+99



**PROPOSED TYPICAL CROSS SECTION**

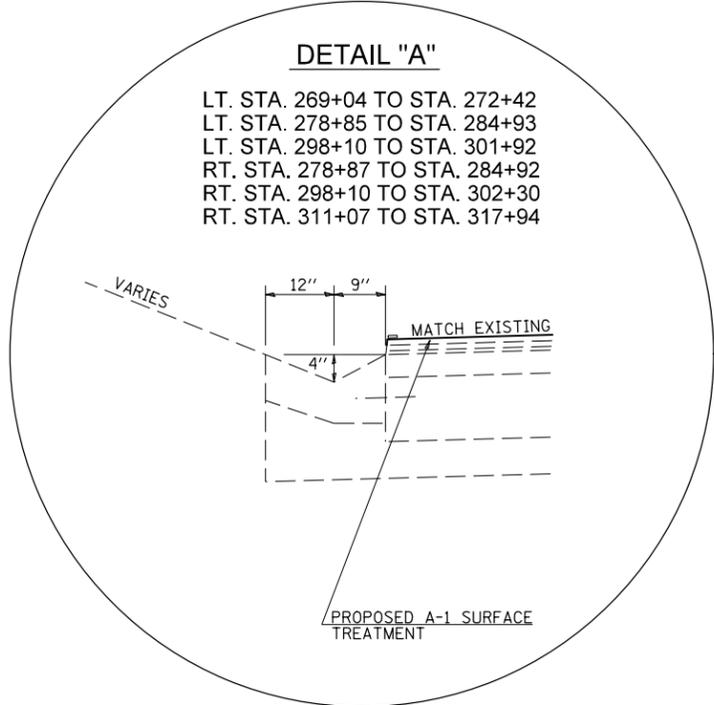
STA. 217+49 TO STA. 225+49  
 STA. 230+49 TO STA. 236+99  
 STA. 240+49 TO STA. 244+49  
 STA. 265+49 TO STA. 322+99



**GUTTER LOCATIONS**

**DETAIL "A"**

LT. STA. 269+04 TO STA. 272+42  
 LT. STA. 278+85 TO STA. 284+93  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

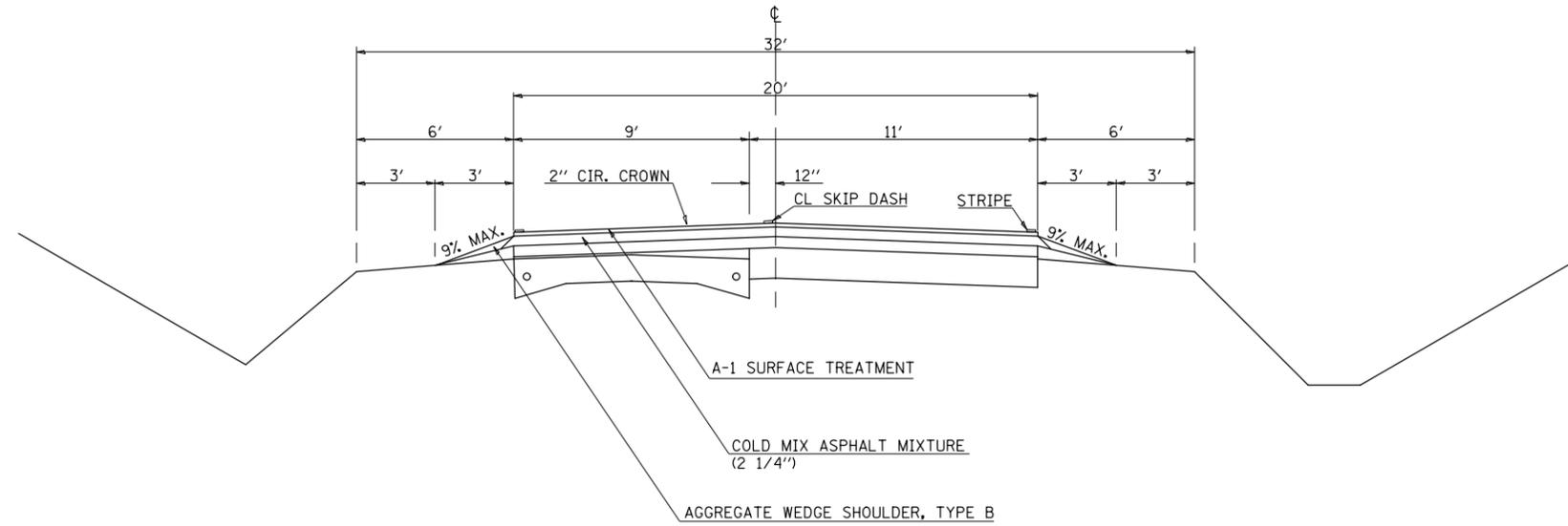
**EXISTING & PROPOSED TYPICAL SECTION**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(41,41-15D)Q	CHAMPAIGN	15	5
CONTRACT NO. 70A09				
ILLINOIS FED. AID PROJECT				

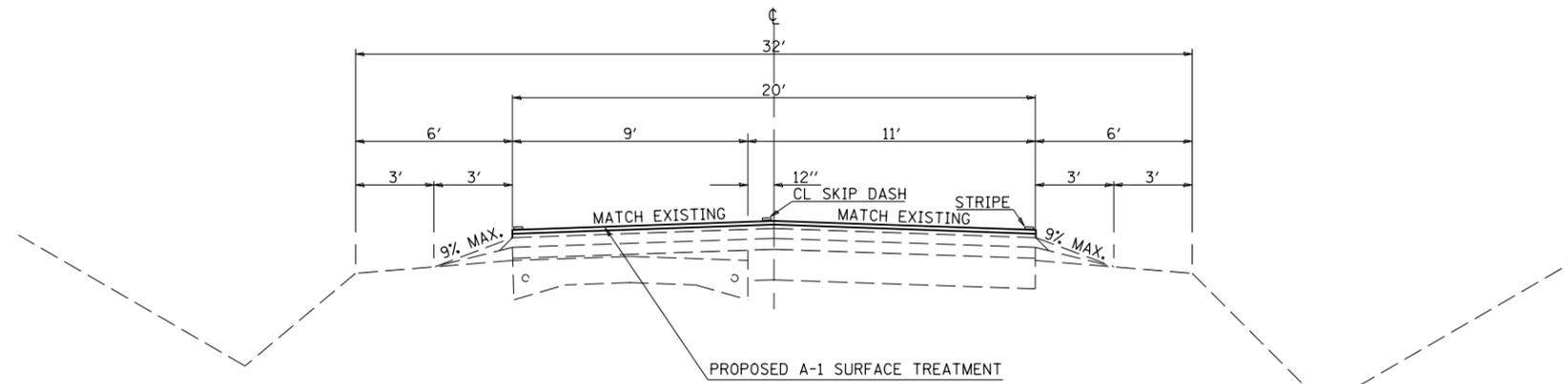
### EXISTING TYPICAL SECTION

STA. 225+49 TO STA. 230+49  
 STA. 236+99 TO STA. 240+49  
 STA. 244+49 TO STA. 265+49  
 STA. 322+99 TO STA. 331+41  
 STA. 335+13 TO STA. 372+12.5



### PROPOSED TYPICAL SECTION

STA. 225+49 TO STA. 230+49  
 STA. 236+99 TO STA. 240+49  
 STA. 244+49 TO STA. 265+49  
 STA. 322+99 TO STA. 331+41  
 STA. 335+13 TO STA. 372+12.5



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	PLOT DATE = 1/31/2013	DATE - _____	REVISED - _____

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING & PROPOSED TYPICAL SECTION

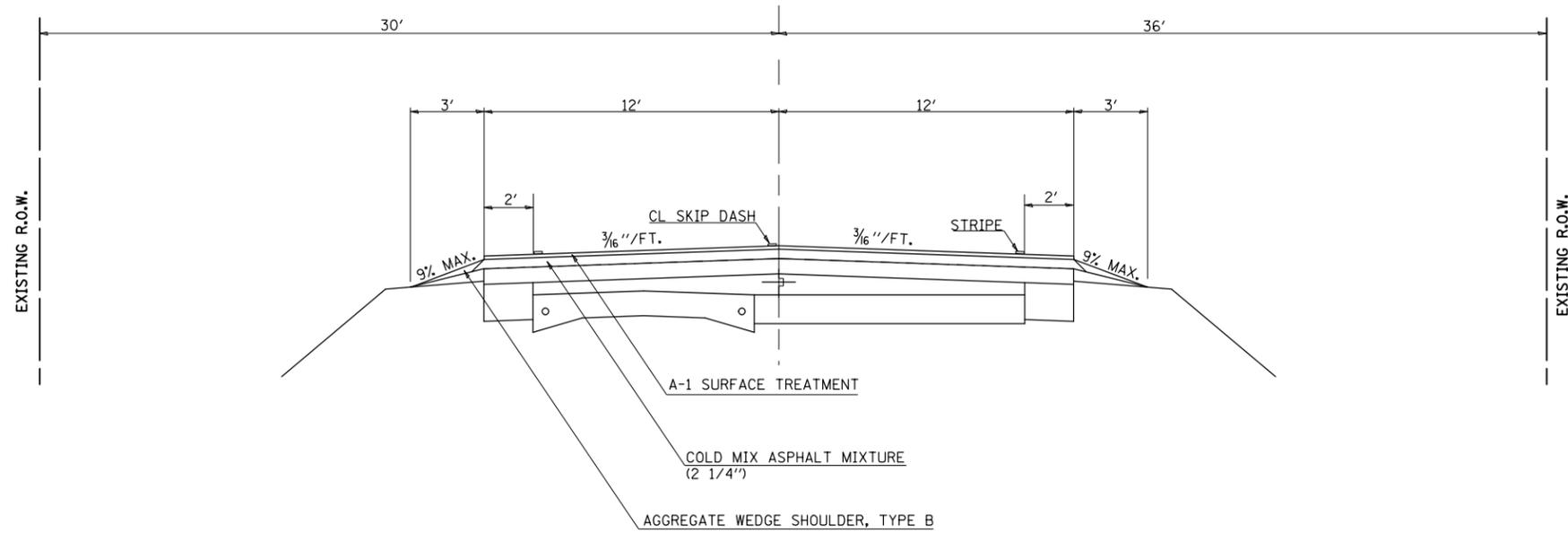
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(41,41-15D)Q	CHAMPAIGN	15	6
CONTRACT NO. 70A09			ILLINOIS FED. AID PROJECT	

**EXISTING TYPICAL SECTION**

STA. 331+41 TO STA. 332+91  
STA. 333+63 TO STA. 335+13

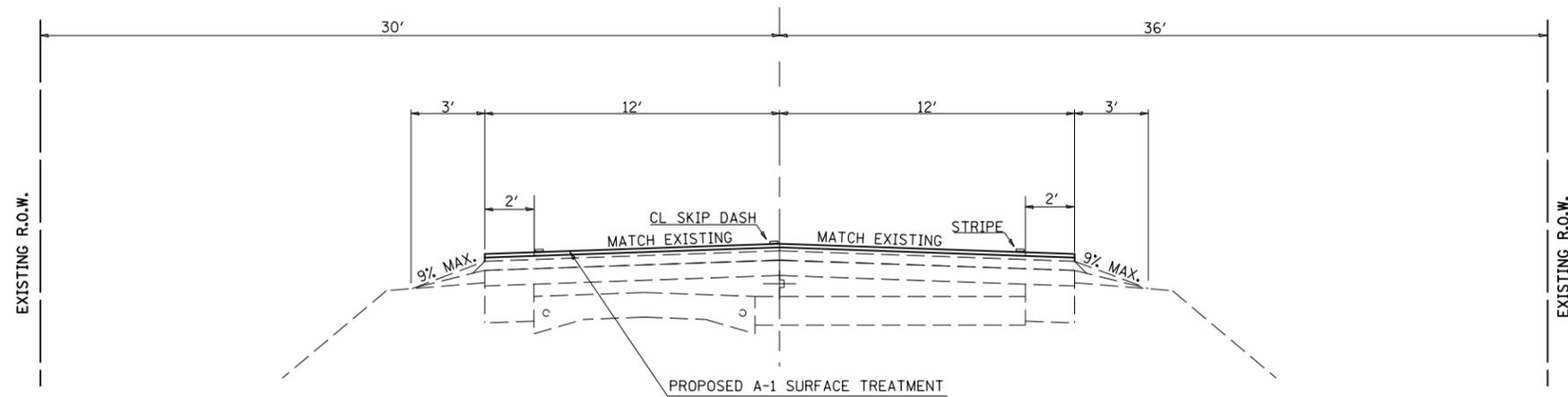
BRIDGE AND APPROACH PAVEMENT OMISSION :  
S.N. 010-0244 STA. 332+91 TO STA. 333+63



**PROPOSED TYPICAL SECTION**

STA. 331+41 TO STA. 332+91  
STA. 333+63 TO STA. 335+13

BRIDGE AND APPROACH PAVEMENT OMISSION :  
S.N. 010-0244 STA. 332+91 TO STA. 333+63



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	PLOT DATE = 1/31/2013	DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING & PROPOSED TYPICAL SECTION**

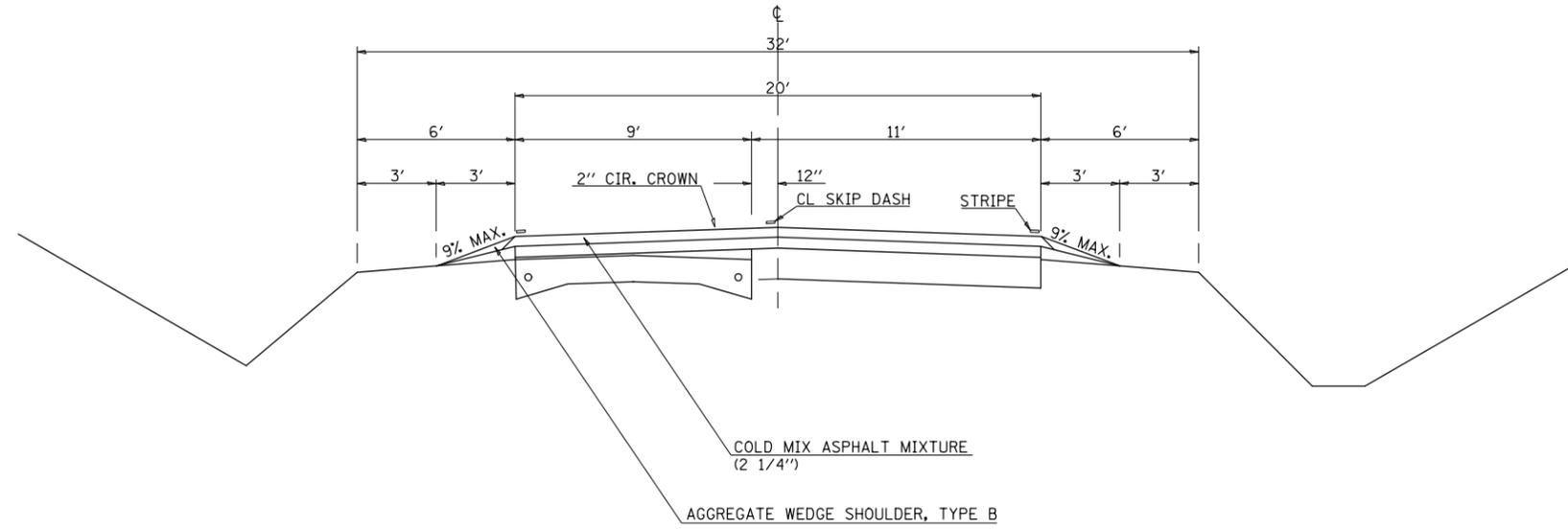
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(41,41-15D)Q	Champaign	15	7
				CONTRACT NO. 70A09
ILLINOIS FED. AID PROJECT				

**EXISTING TYPICAL SECTION**

STA. 372+12.5 TO STA. 389+85.0  
 STA. 390+31.5 TO STA. 425+66.3

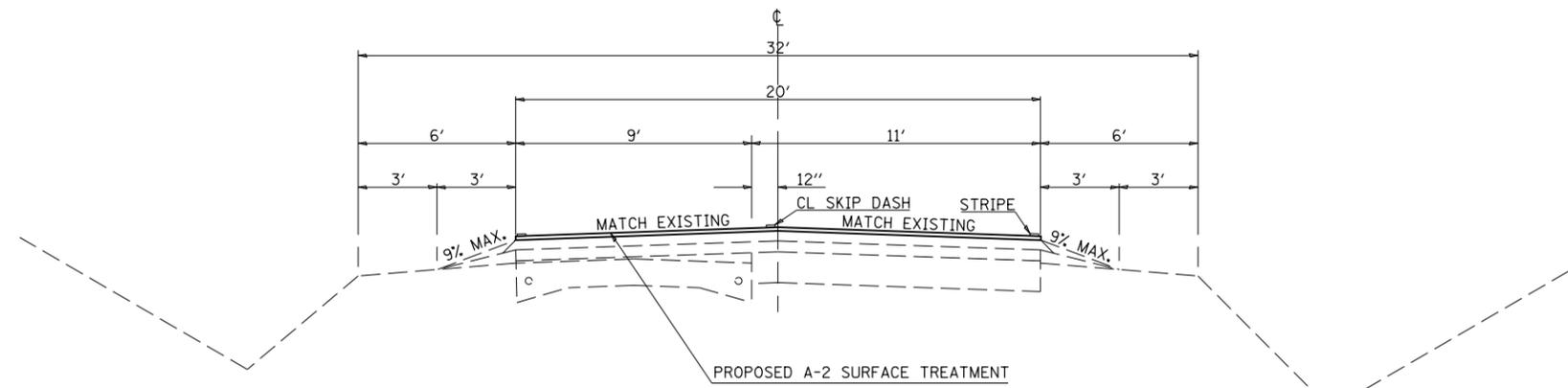
**BRIDGE OMISSION: S.N. 010-0107**  
 STA. 389+85.0 TO STA. 390+31.5



**PROPOSED TYPICAL SECTION**

STA. 372+12.5 TO STA. 389+85.0  
 STA. 390+31.5 TO STA. 425+66.3

**BRIDGE OMISSION: S.N. 010-0107**  
 STA. 389+85.0 TO STA. 390+31.5



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\$MODELNAME\$	PLOT DATE = 1/31/2013	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING & PROPOSED TYPICAL SECTION**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(41,41-15D)Q	Champaign	15	8
CONTRACT NO. 70A09			ILLINOIS FED. AID PROJECT	

## SCHEDULE OF QUANTITIES

SEAL COAT QUANTITIES											
LOCATION	STATION	TO	STATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ YD)	40600100 * BITUMINOUS MATERIALS (PRIME COAT) (GAL)	40300305 POLY.BIT.MAT. COVER & SEAL COATS (GAL)	40300500 COVER COAT AGGREGATE (TON)	40300600 SEAL COAT AGGREGATE (TON)	
<b>MAINLINE QUANTITIES</b>											
*	372+12.50	TO	389+85.00	1,772.5	20.0	3,938.9	*	196.9			
*	390+31.50	TO	425+66.30	3,534.8	20.0	7,855.1	*	392.8			
<b>TREATMENT</b>											
CLASS A-1	216+81.50	TO	331+41.00	11,459.5	22.0	28,012.1		11,204.8			
CLASS A-1	331+41.00	TO	332+91.00	150.0	26.0	433.3		173.3			
CLASS A-1	333+63.00	TO	335+13.00	150.0	26.0	433.3		173.3			
CLASS A-1	335+13.00	TO	372+12.50	3,699.5	22.0	9,043.2		3,617.3			
CLASS A-2	372+12.50	TO	389+85.00	1,772.5	22.0	4,332.8		4,332.8			
CLASS A-2	390+31.50	TO	425+66.30	3,534.8	22.0	8,640.6		8,640.6			
CLASS A-1	216+81.50	TO	331+41.00	11,459.5	20.0	25,465.6				318.3	
CLASS A-1	331+41.00	TO	332+91.00	150.0	24.0	400.0				5.0	
CLASS A-1	333+63.00	TO	335+13.00	150.0	24.0	400.0				5.0	
CLASS A-1	335+13.00	TO	372+12.50	3,699.5	20.0	8,221.1				102.8	
CLASS A-2	372+12.50	TO	389+85.00	1,772.5	20.0	3,938.9			49.2	49.2	
CLASS A-2	390+31.50	TO	425+66.30	3,534.8	20.0	7,855.1			98.2	98.2	
<b>SUB-TOTAL =</b>								589.7	28,142.2	147.4	578.5
<b>INCIDENTAL QUANTITIES: CLASS A-1 TREATMENT</b>											
SIDEROAD	373+52.24	RT		10.0	VARIES	111.9		56.0			
SIDEROAD	373+53.02	LT		10.0	VARIES	56.6		28.3			
PE	398+51.30	RT		10.0	VARIES	41.8		20.9			
SIDEROAD	373+52.24	RT		10.0	VARIES	107.1				1.3	
SIDEROAD	373+53.02	LT		10.0	VARIES	51.9				0.6	
PE	398+51.30	RT		10.0	VARIES	36.5				0.5	
<b>SUB-TOTAL =</b>							0.0	105.2	0.0	2.4	
<b>TOTAL =</b>							589.7	28,247.4	147.4	580.9	
<b>USE</b>							590.0	28,248.0	148.0	581.0	

\* AT THESE LOCATIONS, THE EXISTING COLD MIX ASPHALT MIXTURE SHALL BE COMPACTED WITH A VIBRATORY ROLLER IN VIBRATORY MODE THE DAY PRIOR TO PLACING THE SEAL COAT. THE COST SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS SEAL COAT PAY ITEMS.

# SCHEDULE OF QUANTITIES

PAINT PAVEMENT MARKING - LINE 4" (78001110)				
WHITE -SOLID EDGE LINES				
STATION	TO	STATION	LOCATION	FEET
216+81.50		267+50.00	10.0' LT	5,068.5
216+81.50		267+50.00	10.0' RT	5,068.5
268+00.00		320+30.00	10.0' LT	5,230.0
268+00.00		320+30.00	10.0' RT	5,230.0
320+80.00		373+25.00	10.0' LT	5,245.0
320+80.00		372+88.00	10.0' RT	5,208.0
373+88.00		425+66.30	10.0' LT	5,178.3
374+16.00		425+66.30	10.0' RT	5,150.3
SUB-TOTAL =				41,378.6

**YELLOW -SKIP DASH**

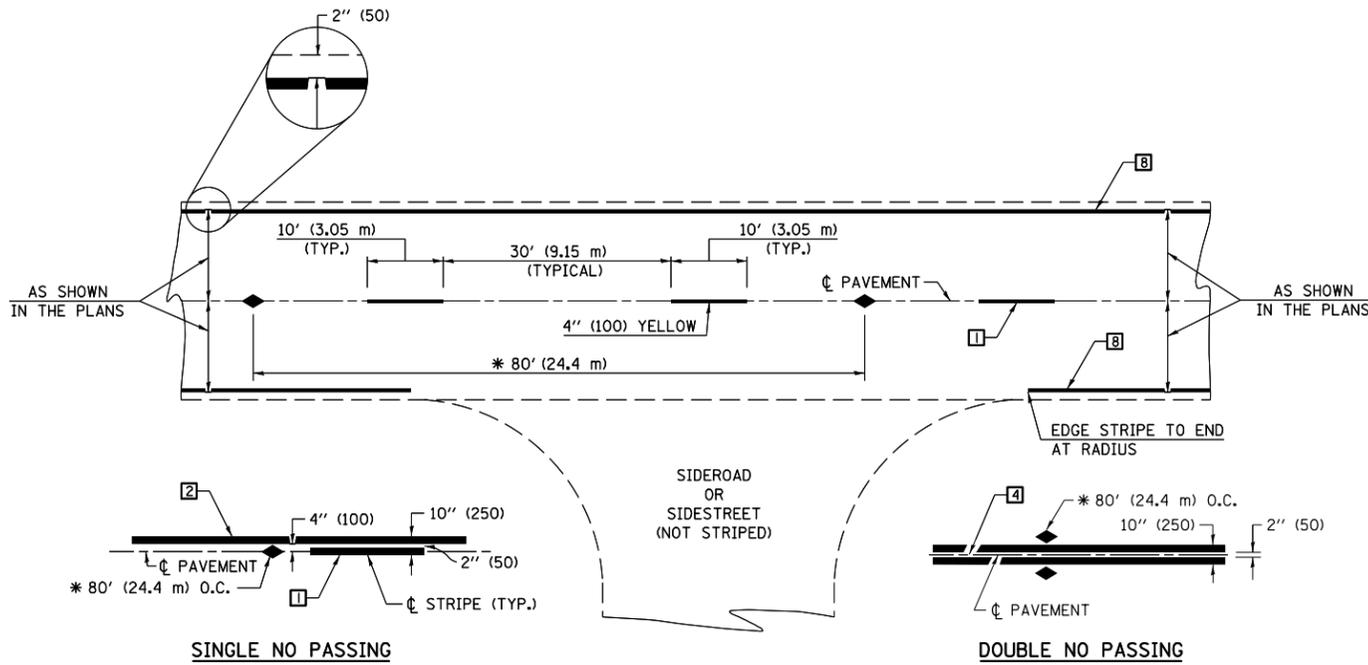
STATION	TO	STATION	LOCATION	FEET
216+81.50		306+88.00	CL	2,251.6
307+94.00		425+66.30	CL	2,943.1
SUB-TOTAL =				5,194.7

**YELLOW -SOLID (NO PASSING ZONES)**

STATION	TO	STATION	DIRECTION	FEET
230+16.00	*	238+08.00	SB	792.0
243+89.00	*	250+23.00	NB	634.0
264+64.00	*	274+14.00	SB	950.0
274+67.00	*	285+76.00	NB	1,109.0
292+10.00	*	297+38.00	SB	528.0
302+13.00	*	307+94.00	NB	581.0
306+88.00	*	314+28.00	SB	740.0
317+45.00	*	325+90.00	NB	845.0
SUB-TOTAL =				6,179.0
TOTAL =				52,752.3
USE =				52,753.0

\* STATIONS ARE APPROXIMATE

SURVEY MONUMENT COVER ASSEMBLY (Z0070100)		
STATION		EACH
373+52.24	CL	1.0
TOTAL =		1.0



\* 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**

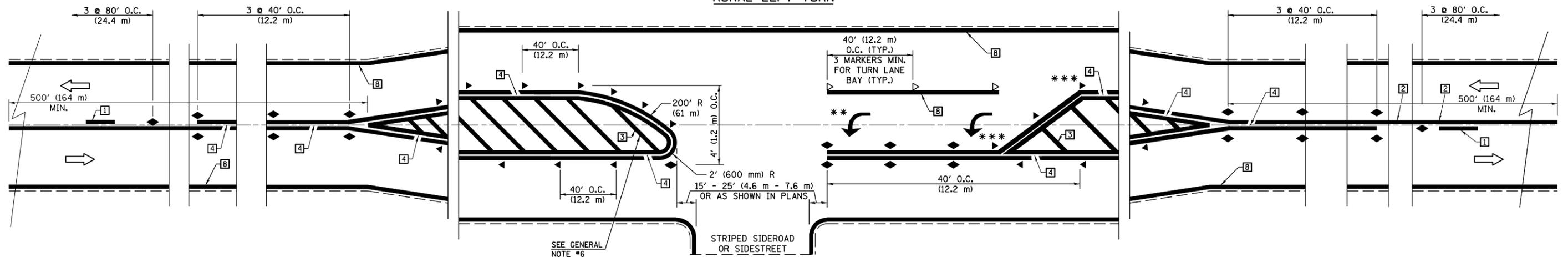
**TYPICAL PAVEMENT MARKING LEGEND**

- 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. 7800AAA**

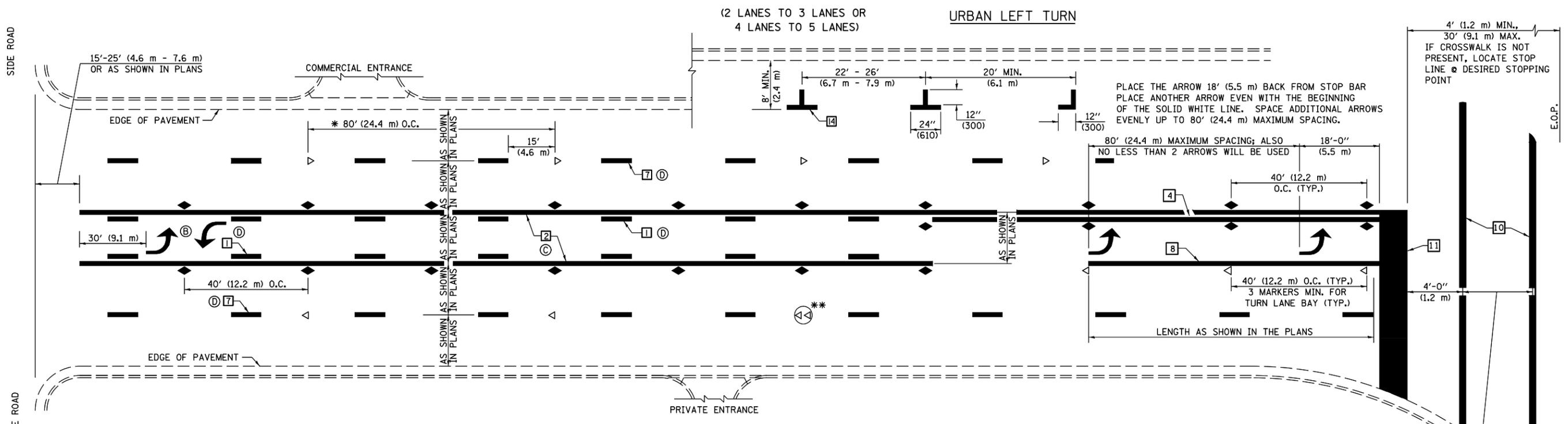
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/31/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

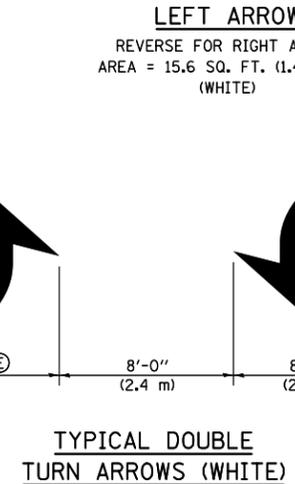
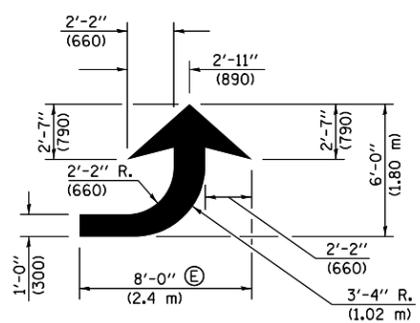
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522	(41,41-15D)Q	Champaign	15	11
CONTRACT NO. 70A09				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



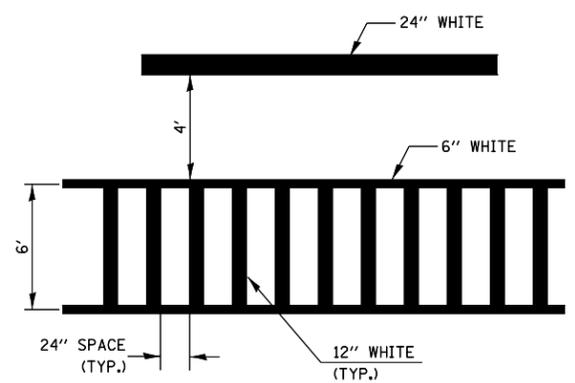
\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

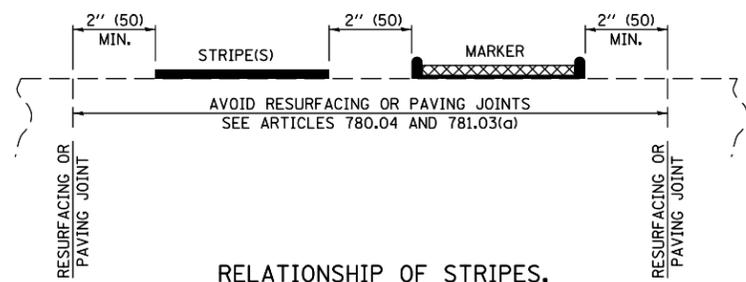
- GENERAL NOTES:**
- (B) TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
  - (C) THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE 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)



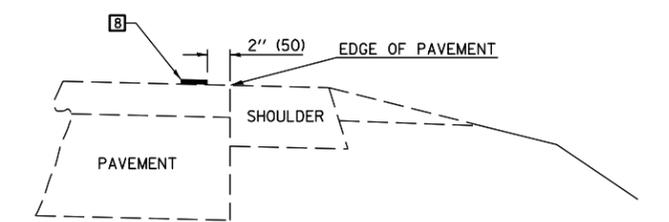
**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



**TYPICAL SPACING FOR CROSSWALKS & STOP BARS**



**RELATIONSHIP OF STRIPES, MARKERS AND JOINTS**

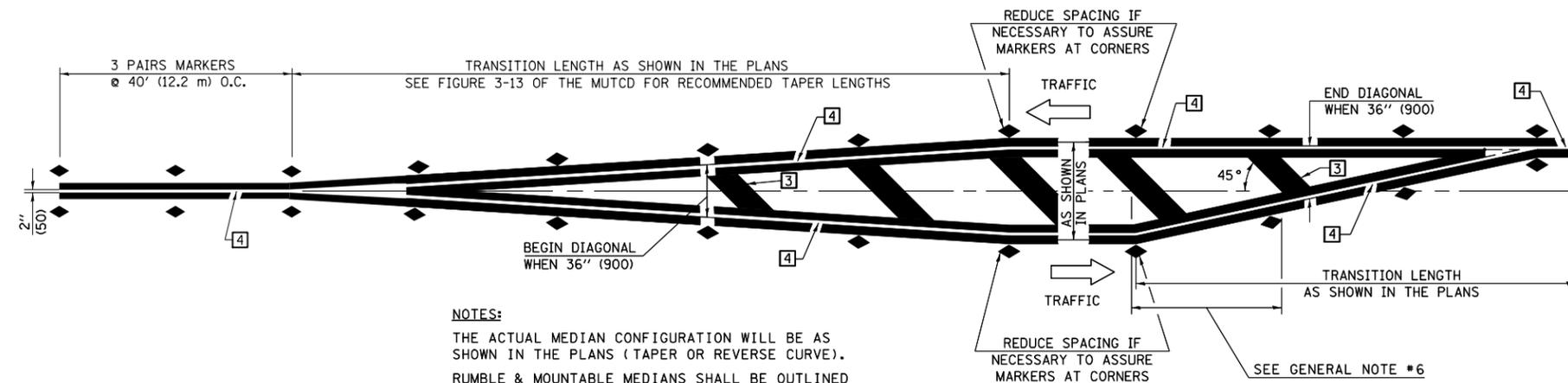


**RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT (SAFETY SHOULDER OR PAVED SURFACE) SEE ARTICLE 780.04**

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

**DISTRICT 5 DETAIL NO. 7800AAA**

FILE NAME =	USER NAME = dawsonkb	DESIGNED -	REVISED - 11/06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ei:\pw_work\p\idot\dawsonkb\0327346\0570A08-shd-details.dgn		DRAWN -	REVISED - 09/2009 - KJT			522	(41,41-15D)Q	Champaign	15	12	
PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 70A09					
PLOT DATE = 1/31/2013		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

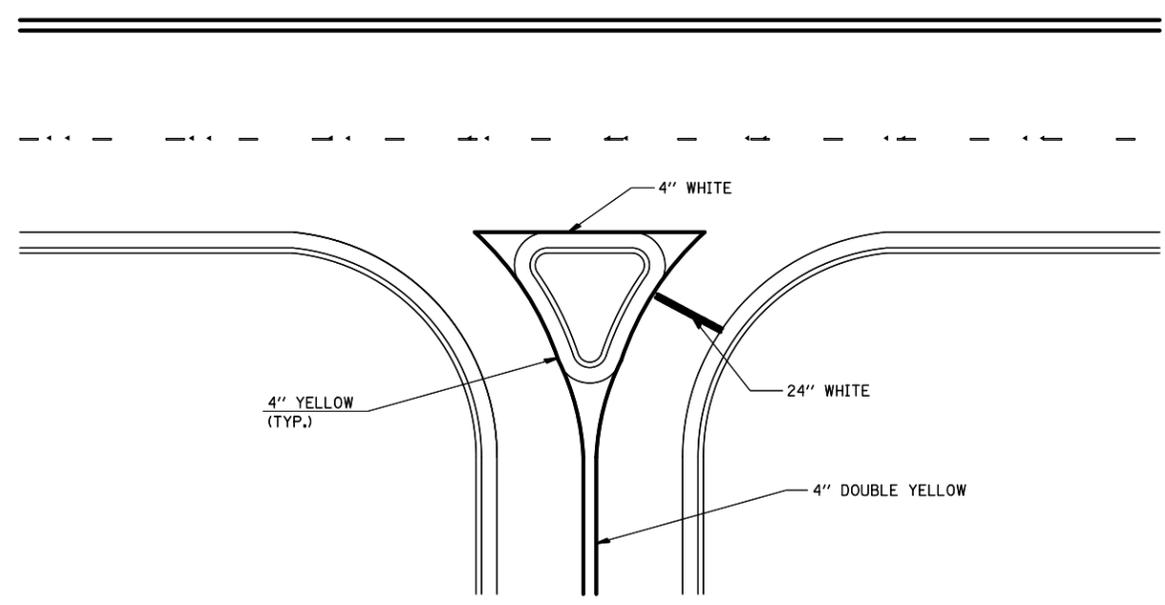


**NOTES:**  
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).  
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

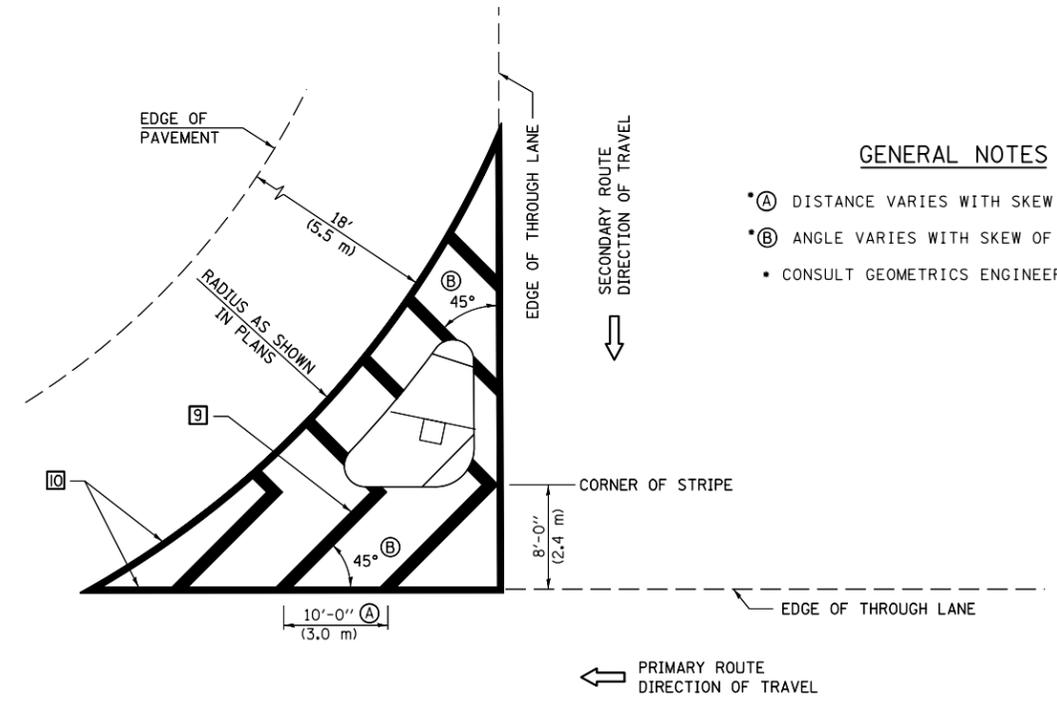
**TYPICAL MEDIAN TRANSITIONS**

**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**



**ISLAND**

**GENERAL NOTES**

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

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

FILE NAME =	USER NAME = dawsonkb	DESIGNED -	REVISED - 11/06
ei:\pwork\pwork\dawsonkb\0327346\0570A08-sht-details.dgn		DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/31/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

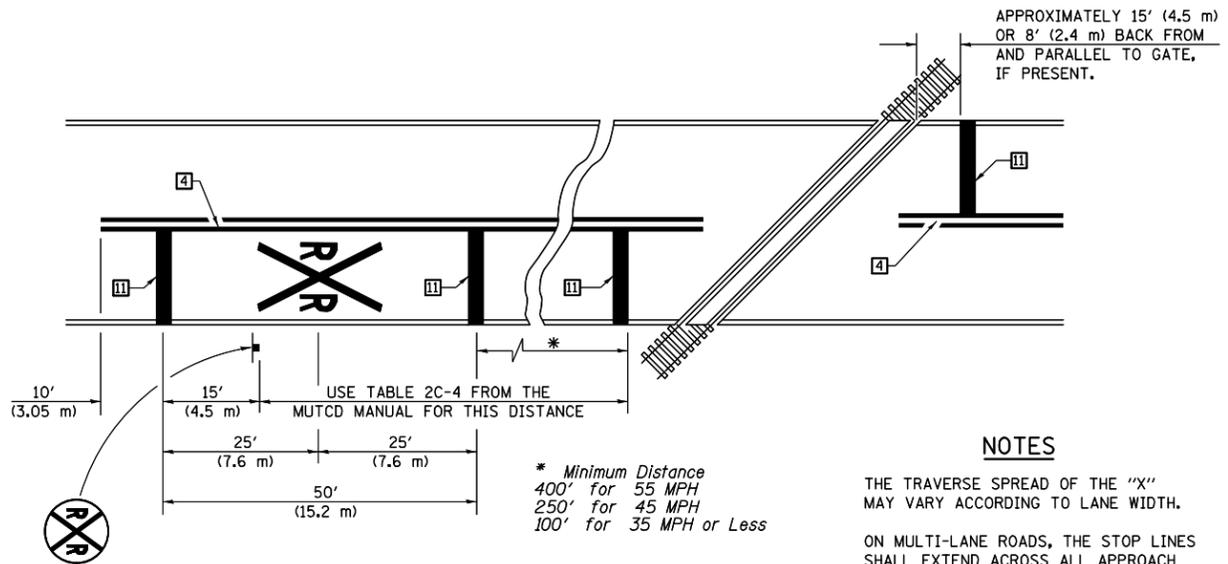
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. 7800AAA**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(41,41-15D)Q	Champaign	15	13
CONTRACT NO. 70A09				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

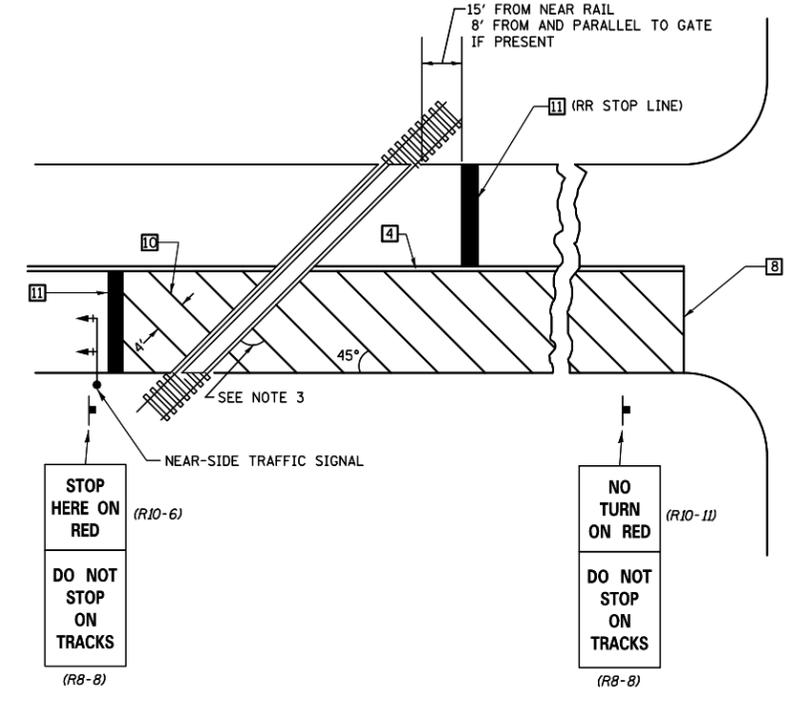
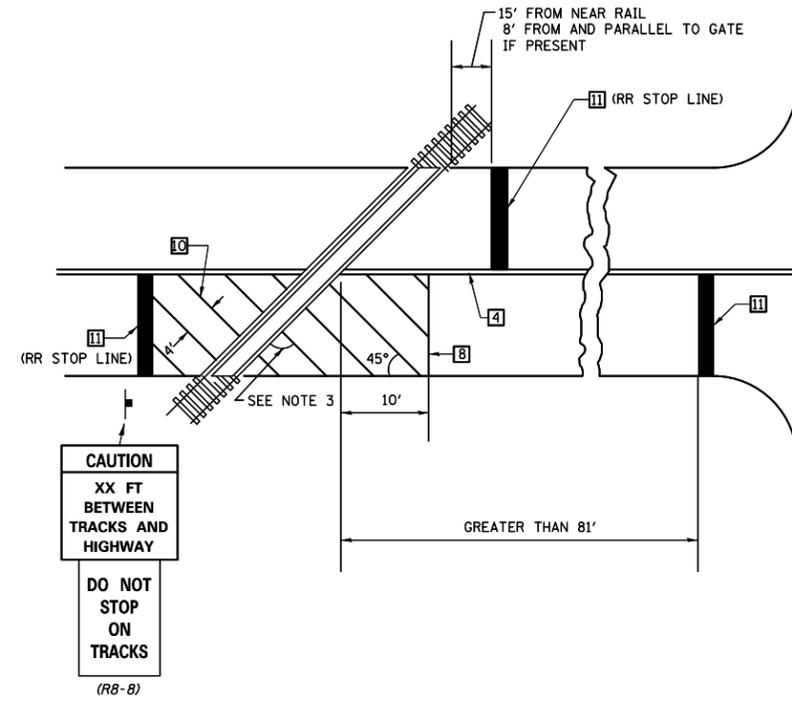
NOTES

APPROXIMATELY 15' (4.5 m) OR 8' (2.4 m) BACK FROM AND PARALLEL TO GATE, IF PRESENT.

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.

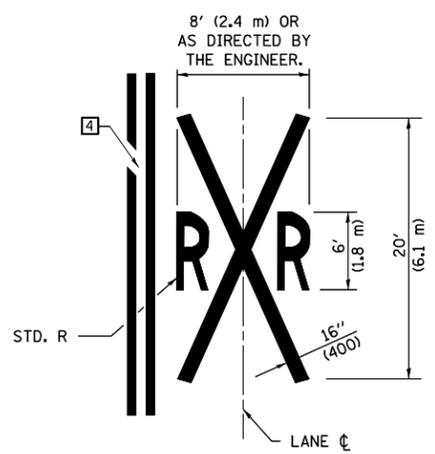
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



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 = dawsonkb	DESIGNED -	REVISED - 11/06
et:\pw\work\p1dot\dawsonkb\0327346\0570A08-sht-details.dgn		DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/31/2013	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

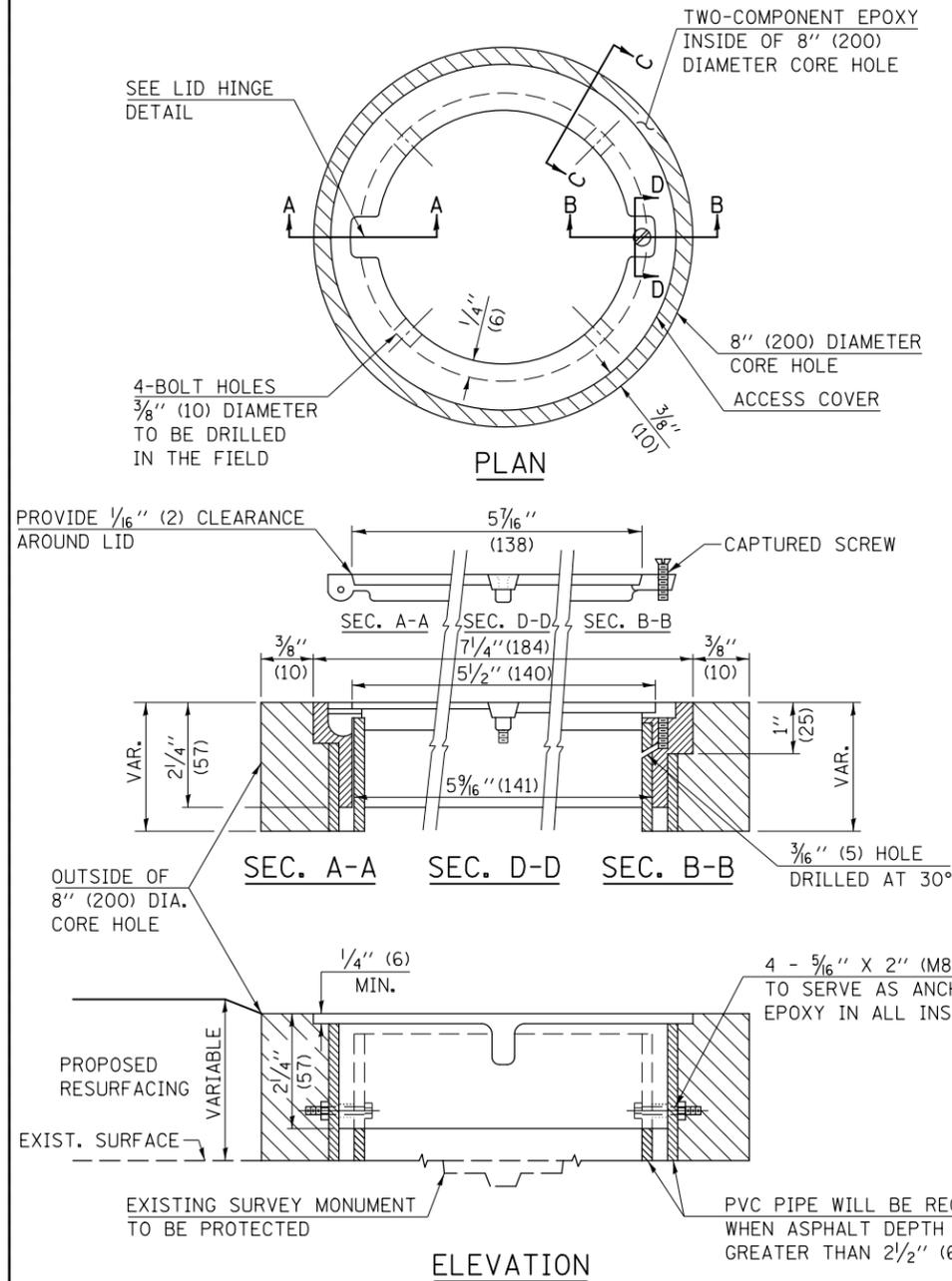
PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)

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

DISTRICT 5 DETAIL NO. 7800AAA

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(41,41-15D)Q	Champaign	15	14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70A09	

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

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**

1. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
2. THE SURVEY MONUMENT COVER ASSEMBLY SHALL BE CENTERED ABOVE THE SURVEY MONUMENT TO BE PROTECTED.
3. MODIFICATION OF THE ALUMINUM CASTING SHALL BE DONE BY GRINDING OR SAWING WHEN HEIGHT REDUCTION IS REQUIRED.
4. ALL SURVEY MONUMENT COVER ASSEMBLIES SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
5. 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.
6. 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.
7. 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.
8. THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

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	PLOT DATE = 1/31/2013	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.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(41,41-15D)Q	Champaign	15	15
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70A09	