

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

F.A.I. ROUTE 74 / (I-74)  
SECTION HFSCT 2014-2  
PROJECT: ACHSIP-0074(304)  
SKIDPROOFING  
CHAMPAIGN COUNTY

C-95-067-14

0.4 MILE E. OF UNION PACIFIC RAILROAD  
TO 1.1 MILE E. OF TR 2500E

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	HFSCT 2014-2	CHAMPAIGN	13	1
ILLINOIS			CONTRACT NO. 70B12	

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

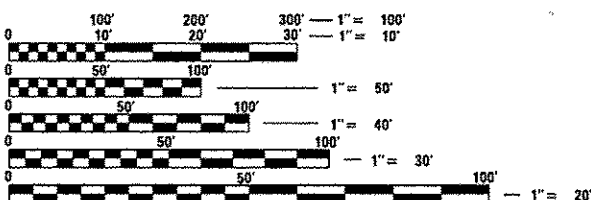
**CURRENT TRAFFIC DATA**

F.A.I. RTE. 74

2014 ADT = 26,400  
PV % = 67.2  
SU % = 3.6  
MU% = 29.2

**DESIGN DESIGNATION**

INTERSTATE



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.

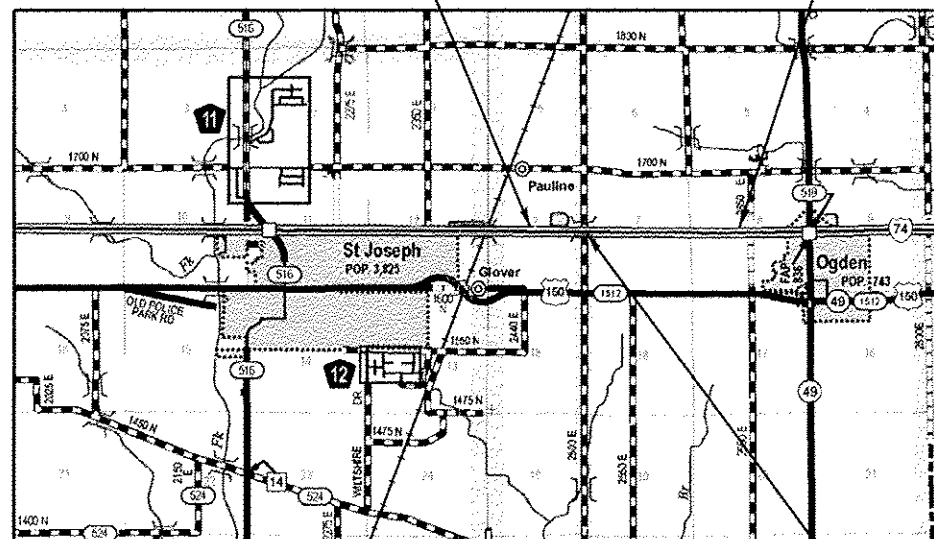
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

TOWNSHIP: OGDEN

PROJECT ENGINEER: JASON STULTS  
SQUAD LEADER: GREG EAGLIN  
PHONE: 217-465-4181  
CONTRACT NO. 70B12

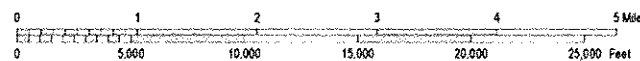
SECTION HFSCT 2014-2 BEGINS:  
STA. 878+50.00

SECTION HFSCT 2014-2 ENDS:  
STA. 961+00.00

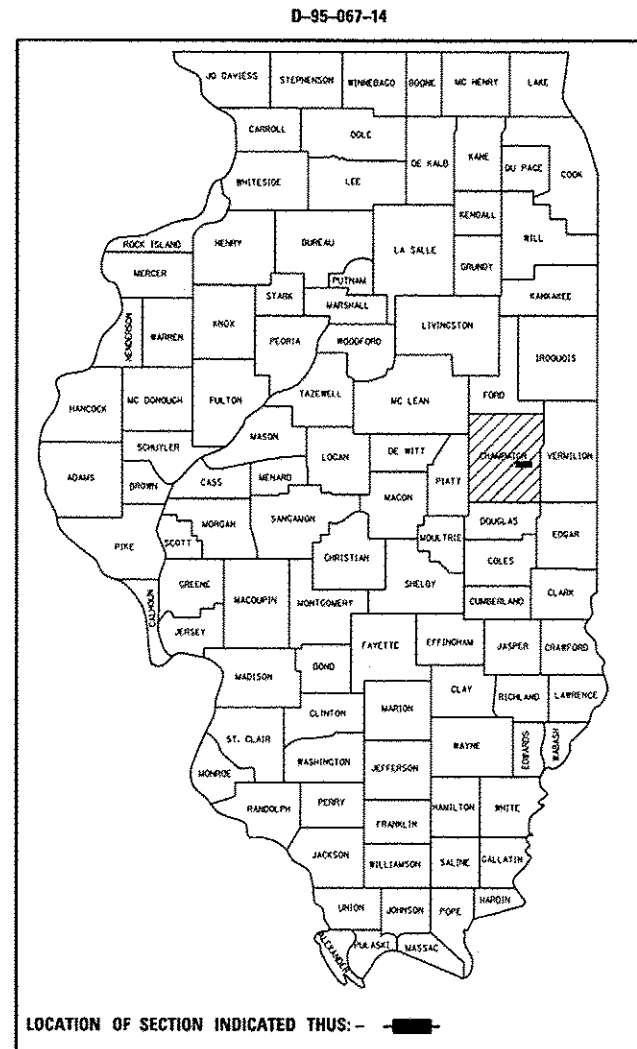


S.N. 010-0183 (TR 2500E)  
STA. 901+29.00

SCALE



GROSS LENGTH = 8,250.00 FT. = 1.563 MILE  
NET LENGTH = 8,250.00 FT. = 1.563 MILE



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED JUNE 27, 2014  
Kenneth A. Barnett  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

July 18, 2014  
John D. Baranzelli, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

July 18, 2014  
Osman Osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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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
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-5	EXISTING & PROPOSED TYPICAL CROSS SECTIONS
6	SCHEDULE OF QUANTITIES
7-11	PLAN SHEETS
12	SWITCHBACK DETAIL
13	PAVEMENT MARKING (INTERSTATE & MULTI-LANE APPLICATIONS)

## HIGHWAY STANDARDS

STANDARD NO.	NAME OF STANDARD
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701400-07	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-08	LANE CLOSURE, FREEWAY / EXPRESSWAY
701406-08	LANE CLOSURE, FREEWAY / EXPRESSWAY, DAY OPERATIONS ONLY
701426-06	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS $\geq$ 45 MPH
701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
701901-03	TRAFFIC CONTROL DEVICES
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

## 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.-703A-SPECIAL**  
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE SHOULDERS AFTER THE HIGH FRICTION SURFACE TREATMENT HAS BEEN APPLIED AND BEFORE THE LANE IS OPEN TO TRAFFIC. EDGE LINE MARKINGS SHALL CONSIST OF 4 FT STRIPES ON 100 FT CENTERS INSTALLED AT APPROXIMATELY A 45 DEGREE DIAGONAL POINTING IN THE DIRECTION OF TRAFFIC. CENTERLINE SHORT TERM PAVEMENT MARKINGS WILL NOT BE REQUIRED.

**G.N.-781**  
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

**COMMITMENTS:**

THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

FILE NAME =	USER NAME = eeglinge	DESIGNED -	GAE	REVISED -		<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS /LIST OF STANDARDS GENERAL NOTES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
o:\pwork\psidot\eeplinge\0405122\057	B12-aht-gennote.dgn	DRAWN -	GAE	REVISED -				74	HF SCT 2014-2	CHAMPAIGN	13	2	
	PLOT SCALE = 48,0000 1/1 in.	CHECKED -		REVISED -				CONTRACT NO. 70B12					
*MODELNAME*	PLOT DATE = 6/27/2014	DATE -		REVISED -				ILLINOIS FED. AID PROJECT					

## SUMMARY OF QUANTITIES

LOCATION OF WORK: FAI-74 / (I-74)  
 INTERSTATE  
 RURAL  
 COUNTY: CHAMPAIGN  
 STA. 878+50.00  
 TO  
 STA. 961+00.00  
 FUNDING BREAKOUT: 90% FED  
 10% STATE  
 CONSTRUCTION TYPE CODE: 0021

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
67100100	MOBILIZATION	L SUM	1.0
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1.0
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1.0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1344.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	448.0
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	37160.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	420.0
78300100	PAVEMENT MARKING REMOVAL	SQ FT	12390.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	420.0
X0327693	HIGH FRICTION SURFACE TREATMENT	SQ YD	44000.0
X4510050	HIGH FRICTION SURFACE TREATMENT CRACK FILLING	FOOT	20460.0
X7010410	SPEED DISPLAY TRAILER	CAL MO	1.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	24.0

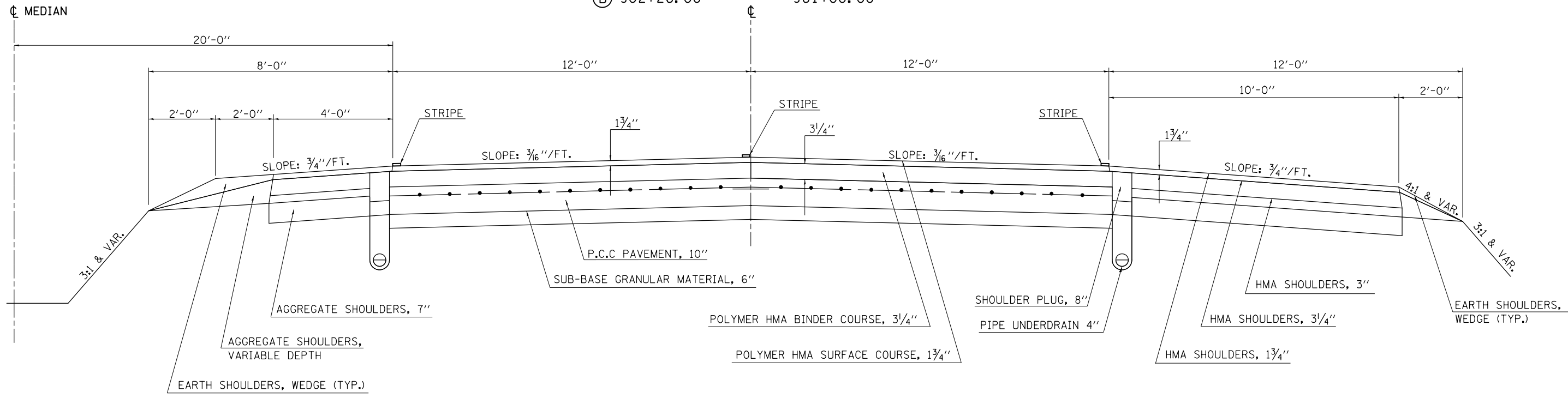
\* SPECIALTY ITEMS

FILE NAME =	USER NAME = eaglinge	DESIGNED - GAE	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
en\p\work\p\idot\ea\inga\08405122\057312-aht-800.dgn		DRAWN - GAE	REVISED -			74	HFSDT 2014-2	CHAMPAIGN	13	3	
		CHECKED -	REVISED -			CONTRACT NO. 70B12					
#MODELNAME*		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

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

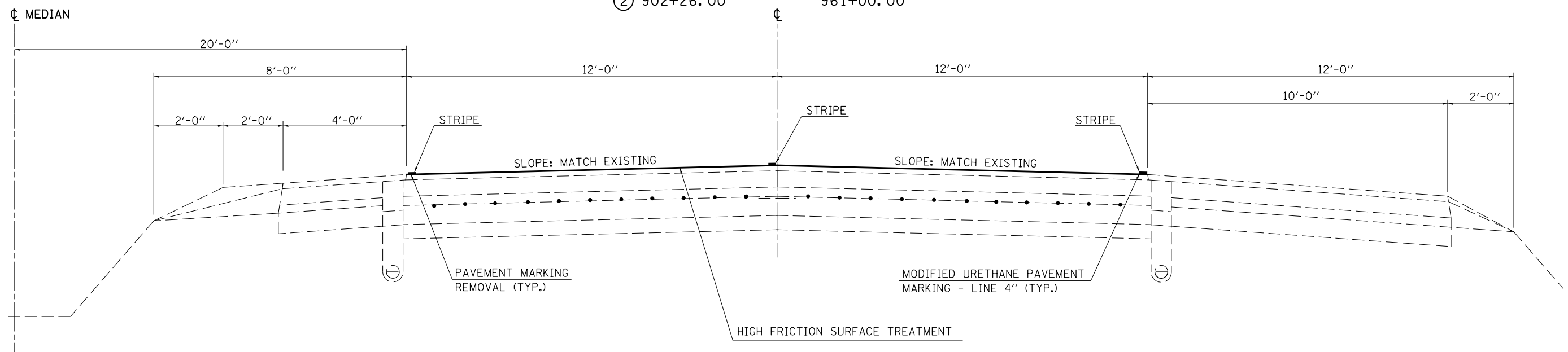
# (A) EXISTING TYPICAL CROSS SECTION

STATION TO STATION  
 878+50.00 900+32.00 (B)  
 (B) 902+26.00 961+00.00



# (1) PROPOSED TYPICAL CROSS SECTION

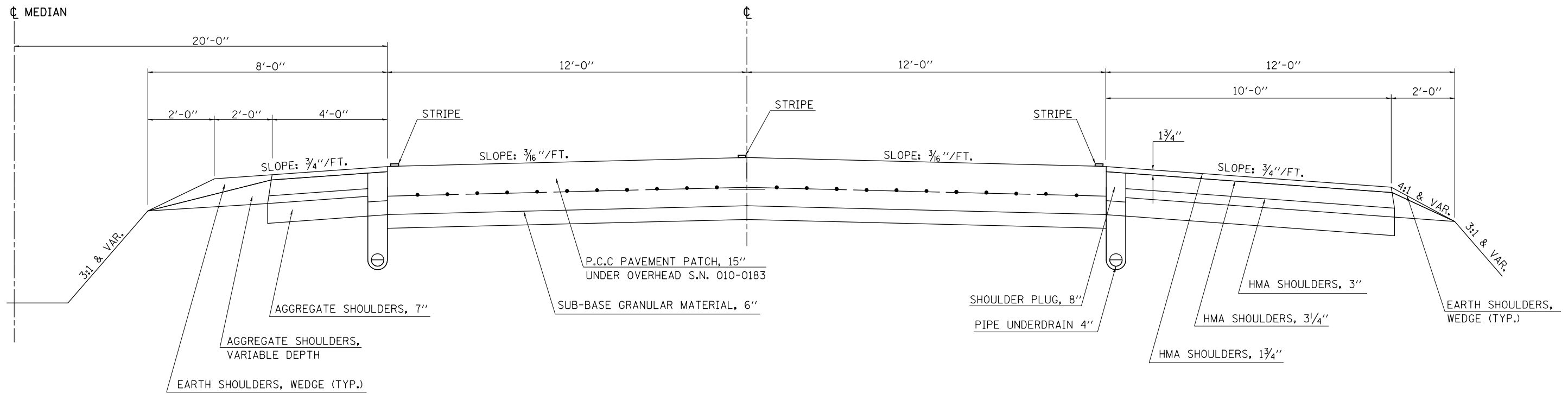
STATION TO STATION  
 878+50.00 900+32.00 (2)  
 (2) 902+26.00 961+00.00



FILE NAME =	USER NAME = eaglino	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL CROSS SECTIONS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\id\ea\aglino\d0405122\0570812-sht-typical.dgn		DRAWN -	REVISED -		74	HFSC 2014-2	CHAMPAIGN	13	4			
\$MODELNAME\$	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.			CONTRACT NO. 70B12				
	PLOT DATE = 6/27/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

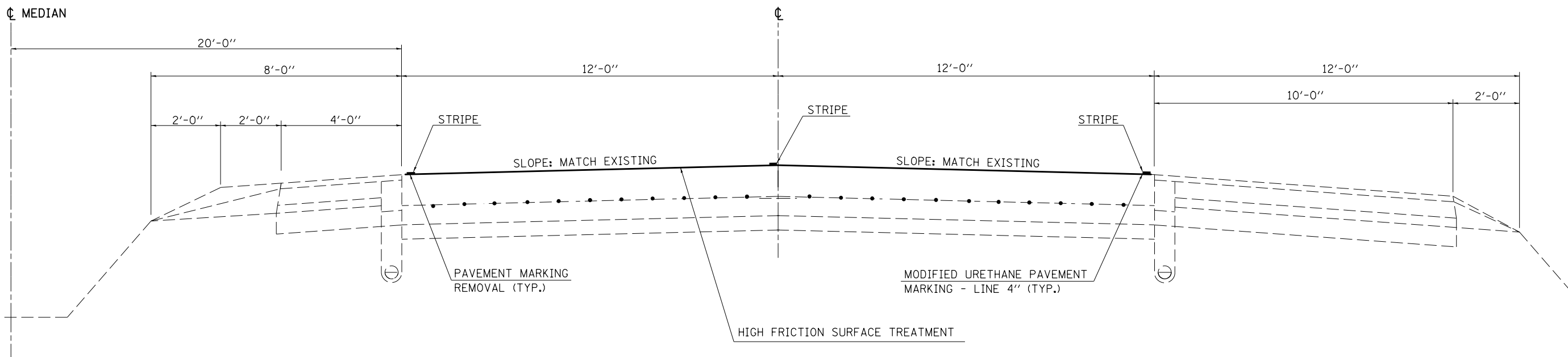
## (B) EXISTING TYPICAL CROSS SECTION

STATION TO STATION  
 (A) 900+32.00 TO 902+26.00 (A)



## (2) PROPOSED TYPICAL CROSS SECTION

STATION TO STATION  
 (1) 900+32.00 TO 902+26.00 (1)



FILE NAME =	USER NAME = eaglinge	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL CROSS SECTIONS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 70B12			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 6/27/2014	DATE -	REVISED -		SCALE:	SHEET 2	OF 2 SHEETS	STA.	TO STA.			

## SCHEDULE OF QUANTITIES

### 78300100 PAVEMENT MARKING REMOVAL

LOCATION	STATION	TO	STATION	LENGTH (FT)	QUANTITY (SQ FT)
EASTBOUND	C.L.	878+50.00	961+00.00	2080.00	693.33
EASTBOUND	D.L.	878+50.00	961+00.00	8250.00	2750.00
EASTBOUND	P.L.	878+50.00	961+00.00	8250.00	2750.00
WESTBOUND	C.L.	878+50.00	961+00.00	2080.00	693.33
WESTBOUND	D.L.	878+50.00	961+00.00	8250.00	2750.00
WESTBOUND	P.L.	878+50.00	961+00.00	8250.00	2750.00
TOTAL =					12386.67
USE =					12390.00
					SQ FT

### X0327693 HIGH FRICTION SURFACE TREATMENT

LOCATION	STATION	TO	STATION	LENGTH (FT)	AVERAGE WIDTH (FT)	HIGH FRICTION SURFACE TREATMENT (SQ YD)
EASTBOUND	D.L.	878+50.00	961+00.00	8250.00	12.00	11000.00
EASTBOUND	P.L.	878+50.00	961+00.00	8250.00	12.00	11000.00
WESTBOUND	D.L.	878+50.00	961+00.00	8250.00	12.00	11000.00
WESTBOUND	P.L.	878+50.00	961+00.00	8250.00	12.00	11000.00
TOTAL =						44000.00
						SQ YD

### X4510050 HIGH FRICTION SURFACE TREATMENT CRACK FILLING

LOCATION	STATION	TO	STATION	PROJECT LENGTH (FT)	MISCELLANEOUS LONGITUDINAL CRACKS (FT)	TRANSVERSE CRACKS (FT)	QUANTITY (FT)
EASTBOUND	878+50.00		961+00.00	8250.00	8250.00	1980.00	10230.00
WESTBOUND	878+50.00		961+00.00	8250.00	8250.00	1980.00	10230.00
TOTAL =							20460.00
							FT

**\*NOTE:**

HIGH FRICTION SURFACE TREATMENT CRACK FILLING WILL NOT BE REQUIRED ALONG THE EDGE OF PAVEMENT AND SHOULDER JOINT. THE MATERIAL SHALL BE USED FOR ONLY THE MISCELLANEOUS LONGITUDINAL AND TRANSVERSE CRACKS.

### 70300100 SHORT TERM PAVEMENT MARKING

### 70301000 WORK ZONE PAVEMENT MARKING REMOVAL

				70300100	70301000
LOCATION	STATION	TO	STATION	QUANTITY (FT)	QUANTITY (SQ FT)
EASTBOUND	D.L. SHLDR	878+50.00	961+00.00	336.00	112.00
EASTBOUND	P.L. SHLDR	878+50.00	961+00.00	336.00	112.00
WESTBOUND	D.L. SHLDR	878+50.00	961+00.00	336.00	112.00
WESTBOUND	P.L. SHLDR	878+50.00	961+00.00	336.00	112.00
TOTAL =				1344.00	448.00
				FT	SQ FT

### 78009004 MODIFIED URETHANE PAVEMENT MARKING - LINE 4"

LOCATION	STATION	TO	STATION	LENGTH (FT)	COLOR
EASTBOUND	C.L.	878+50.00	961+00.00	2080.00	WHITE
EASTBOUND	D.L.	878+50.00	961+00.00	8250.00	WHITE
EASTBOUND	P.L.	878+50.00	961+00.00	8250.00	YELLOW
WESTBOUND	C.L.	878+50.00	961+00.00	2080.00	WHITE
WESTBOUND	D.L.	878+50.00	961+00.00	8250.00	WHITE
WESTBOUND	P.L.	878+50.00	961+00.00	8250.00	YELLOW
TOTAL =				37160.00	
				FT	

### 78100100 RAISED REFLECTIVE PAVEMENT MARKER

### 78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

					78100100	78300200
LOCATION	STATION	TO	STATION	LENGTH (FT)	ONE-WAY CRYSTAL QUANTITY (EACH)	RRPM REMOVAL QUANTITY (EACH)
EASTBOUND	C.L.	878+50.00	961+00.00	8250.00	210.0	210.0
WESTBOUND	C.L.	878+50.00	961+00.00	8250.00	210.0	210.0
TOTAL =					420.0	420.0
					EACH	EACH

### X7015005 CHANGEABLE MESSAGE SIGN

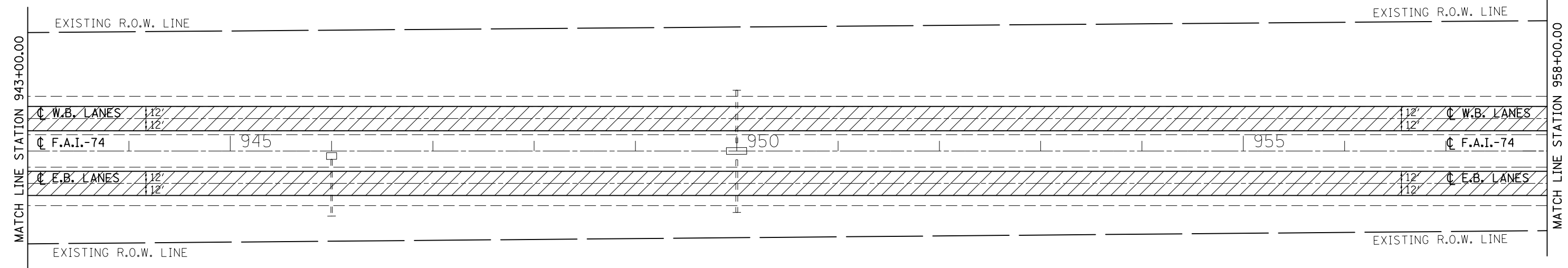
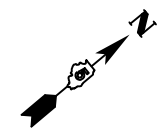
LOCATION	PUBLIC NOTIFICATION (CAL DA)	HIGH FRICTION SURFACE TREATMENT OPERATIONS (CAL DA)	TOTAL QUANTITY (CAL DA)
FAI-74 E.B.	7.0	5.0	12.0
FAI-74 W.B.	7.0	5.0	12.0
TOTAL =			24.0
			CAL DA



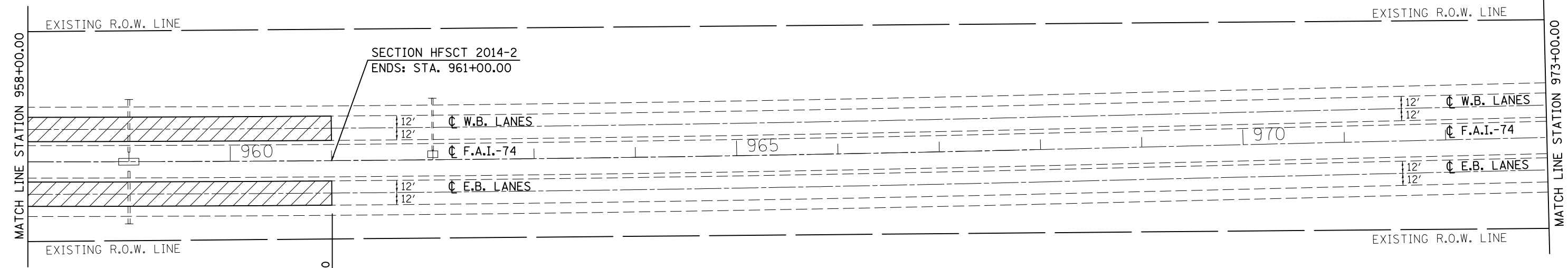
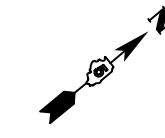








HIGH FRICTION SURFACE TREATMENT



HIGH FRICTION SURFACE TREATMENT

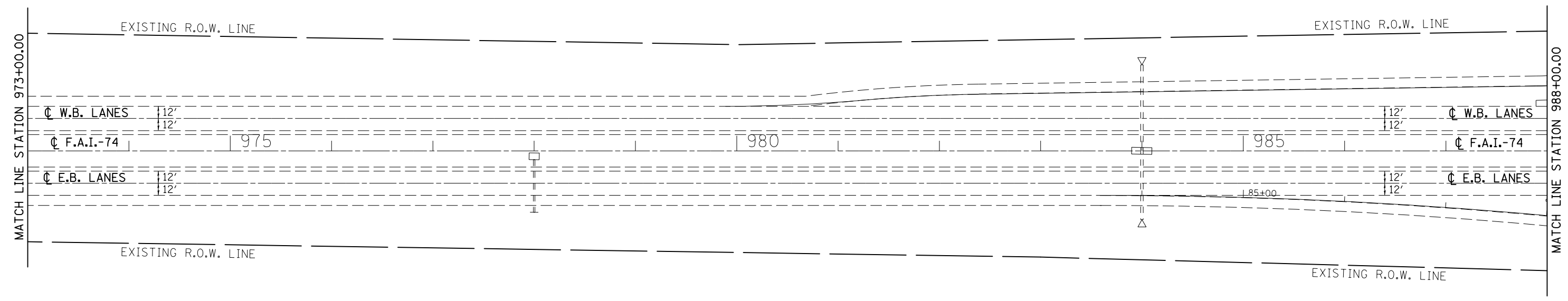
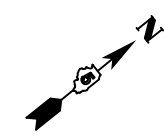
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#MODELNAME#	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

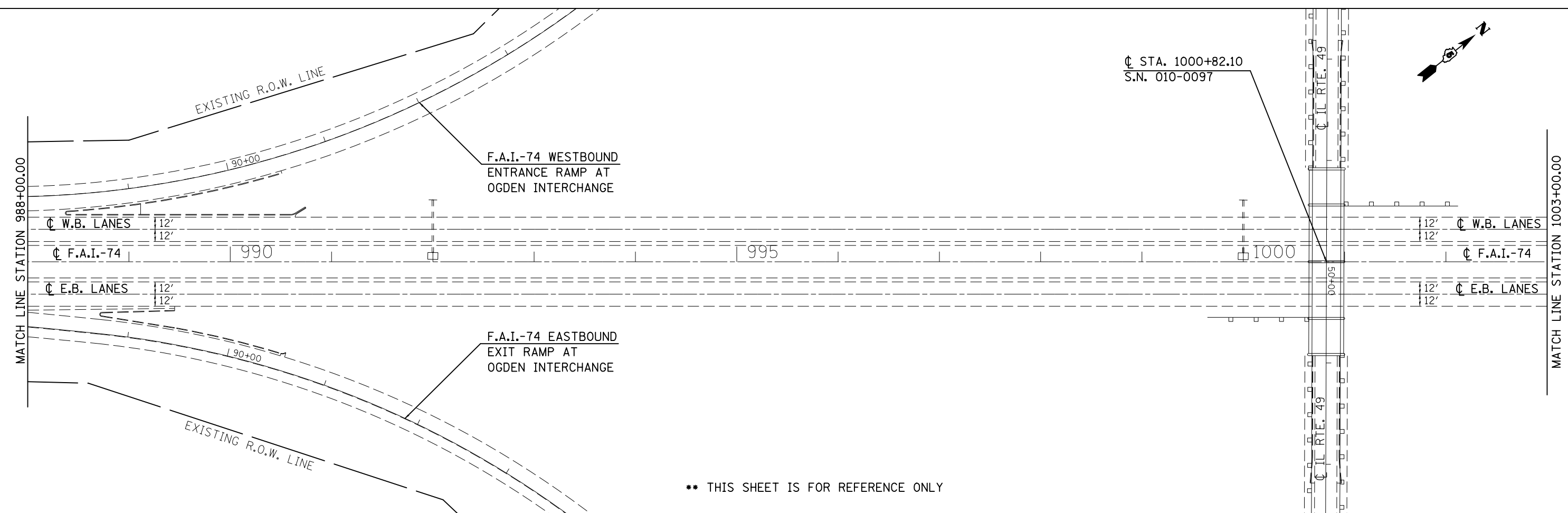
**PLAN SHEET / F.A.I.-74**

SCALE: 1" = 50'    SHEET 4 OF 5 SHEETS    STA. 943+00.00 TO STA. 973+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	HFSC 2014-2	CHAMPAIGN	13	10
CONTRACT NO. 70B12			ILLINOIS FED. AID PROJECT	



\*\* THIS SHEET IS FOR REFERENCE ONLY



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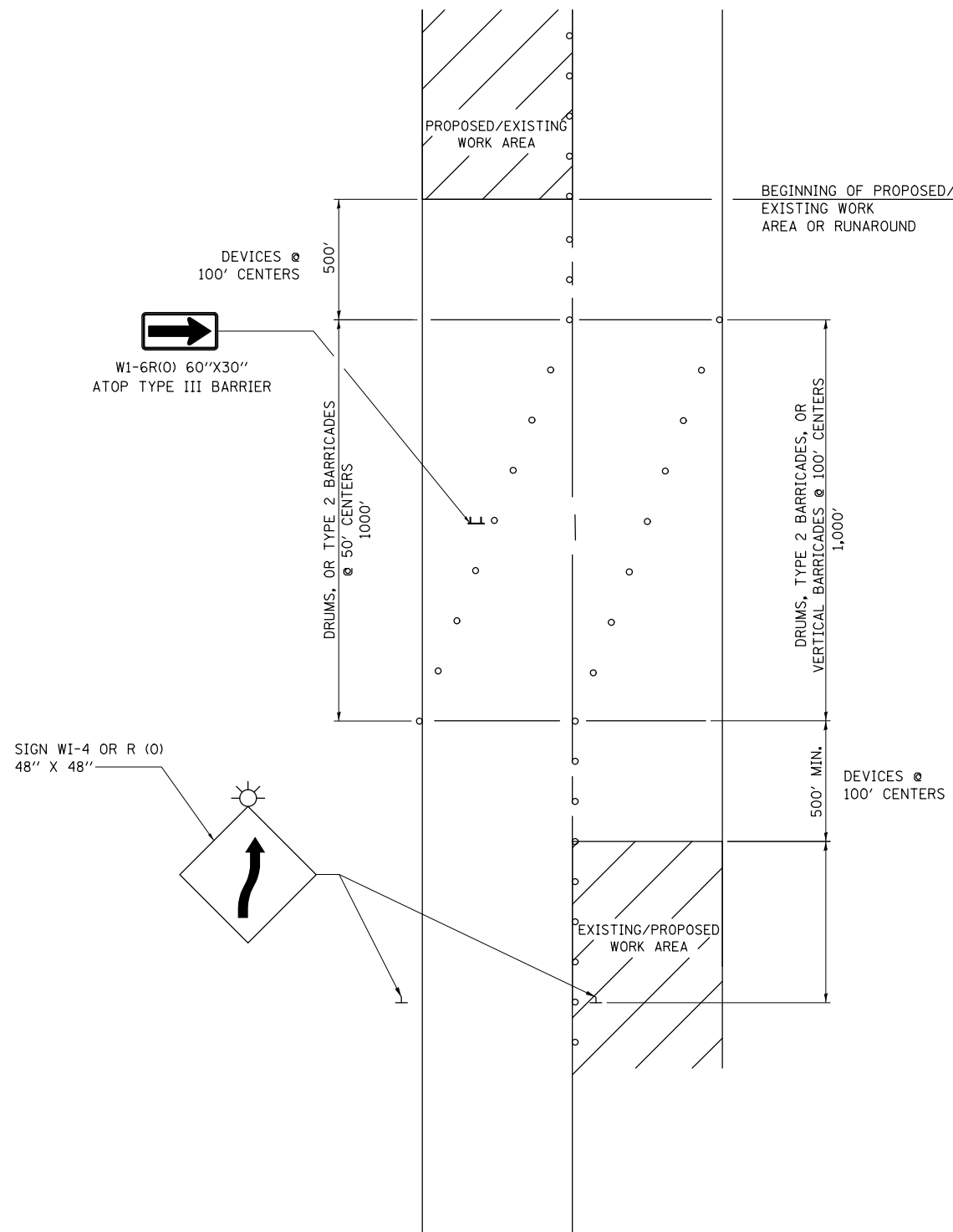
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#MODELNAME#	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET / F.A.I.-74**

SCALE: 1" = 50'    SHEET 5 OF 5 SHEETS    STA. 973+00.00 TO STA. 1003+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	HFSC 2014-2	CHAMPAIGN	13	11
CONTRACT NO. 70B12			ILLINOIS FED. AID PROJECT	



**NOTES:**

1. THIS DETAIL ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE LEFT LANE PRIOR TO THE RIGHT LANE. UNDER THESE CONDITIONS, THE SETUP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.
2. ALL DEVICES SHALL CONFORM TO STD. 701901
3. ALL CONFLICTING OR UNNECESSARY SIGNS SHALL BE REMOVED OR COVERED.
4. ALL DEVICES REQUIRE STEADY BURN MONODIRECTIONAL LIGHTS IF WORK INVOLVES A NIGHT-TIME CLOSURE.
5. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS.

**DISTRICT 5 DETAIL NO. 70100100**

FILE NAME =	USER NAME = eaglinge	DESIGNED - 1/11	REVISED - 06/14
et:\pw\work\p\dot\ea\linge\d\0405122\0570	B12-sht-details.dgn	DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2014	DATE -	REVISED -

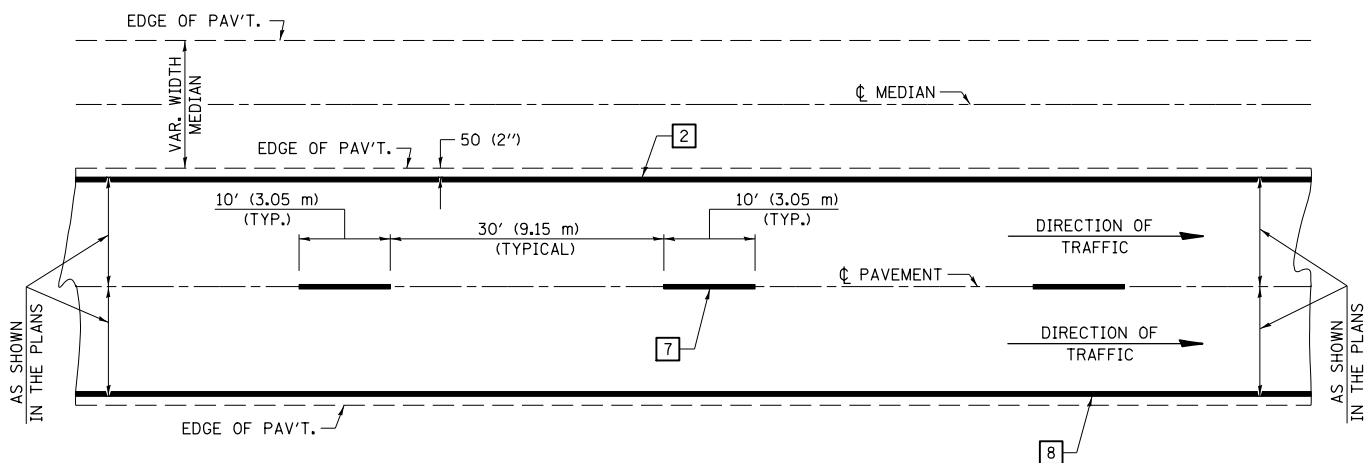
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SWITCHBACK**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	HF SCT 2014-2	CHAMPAIGN	13	12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70B12	

CENTERLINE INTERSTATE OR MULTI-LANE TWO WAY DIVIDED HIGHWAY

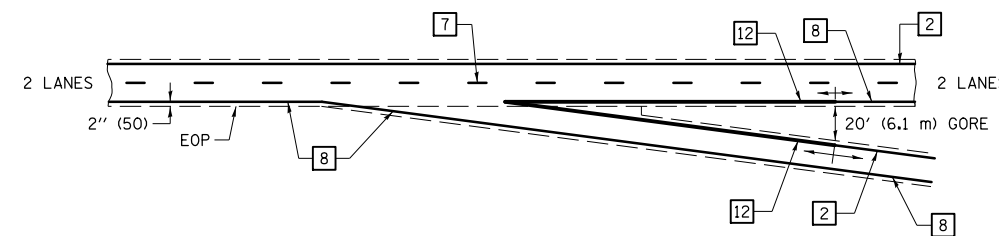


NOTE: PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.

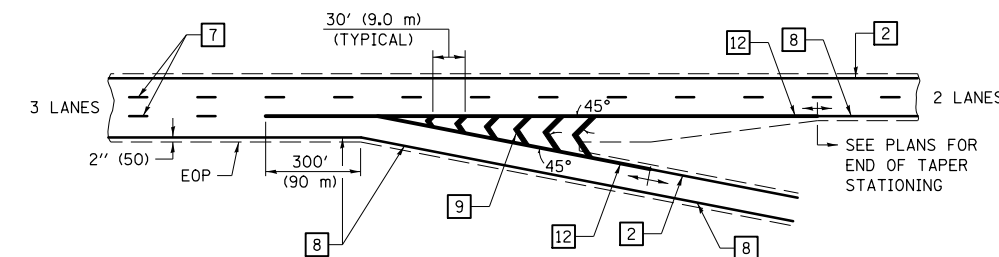
NOTE: SEE ARTICLES 780.04 & 781.03 FOR LOCATION OF STRIPES AND MARKERS RELATIVE TO EDGES OR JOINTS.

FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO STANDARD 781001.

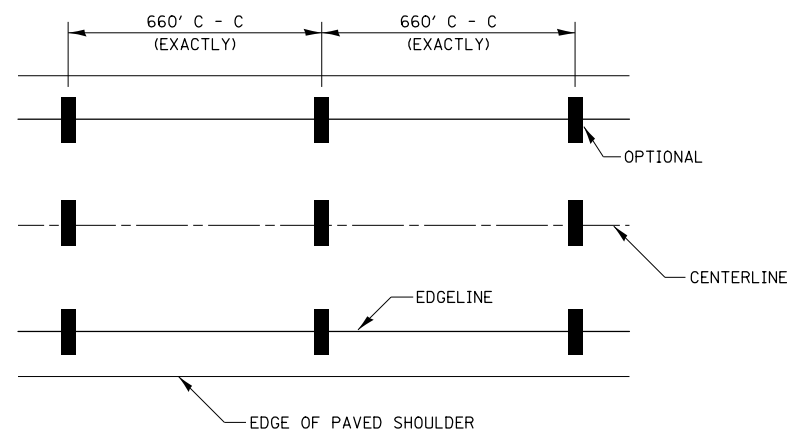
TYPICAL EXIT RAMP TERMINAL



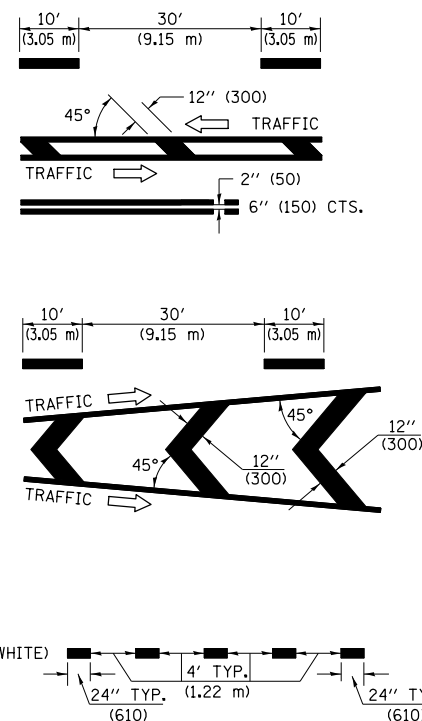
EXIT RAMP TERMINAL with EXCLUSIVE (auxiliary) LANE



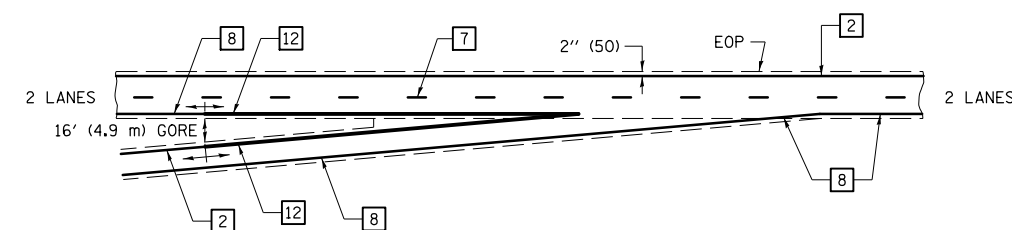
TYPICAL PAVEMENT MARKING LEGEND



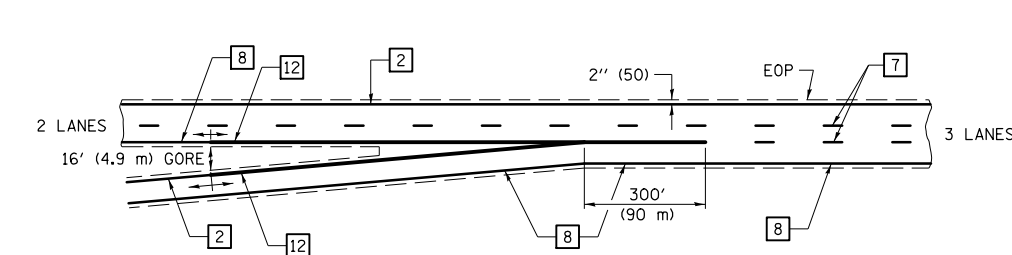
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)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



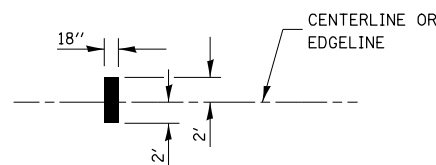
TYPICAL ENTRANCE RAMP TERMINAL



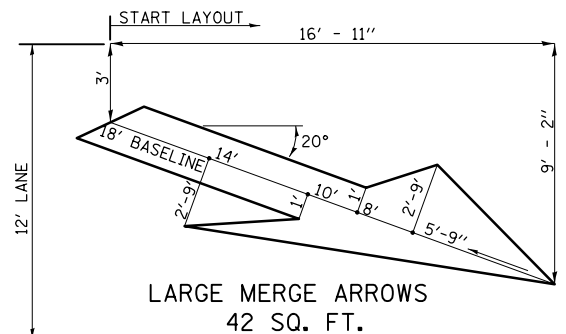
ENTRANCE RAMP TERMINAL with EXCLUSIVE LANE



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



AERIAL SPEED CHECK ZONES



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

FILE NAME =	USER NAME = eaglino	DESIGNED -	REVISED - 11/06
ei:\pw\work\p\idot\ea\aglino\d0405122\0570812-sht-details.dgn		DRAWN -	REVISED -
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (INTERSTATE & MULTI-LANE APPLICATIONS)

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

DISTRICT 5 DETAIL NO. 780B BBB

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	HFSC2 2014-2	CHAMPAIGN	13	13
CONTRACT NO. 70B12				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				