

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 846 (IL 53)
SECTION (5&6)I
PROJECT: *ESP-0846(019)*
ROUTING, SEALING AND STRIPING
GRUNDY COUNTY

C-93-119-04

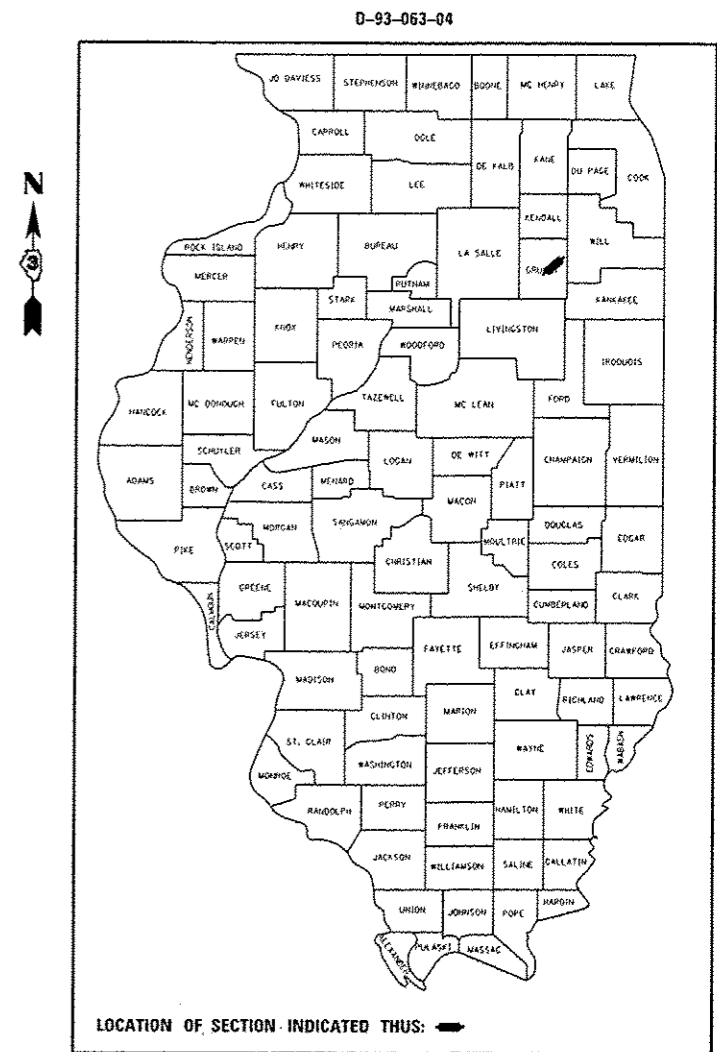
F.A.P. RTE. 846	SECTION (5&6)I	COUNTY GRUNDY	TOTAL SHEETS 13	SHEET NO. 1
ILLINOIS			CONTRACT NO. 66C55	

INDEX OF SHEETS

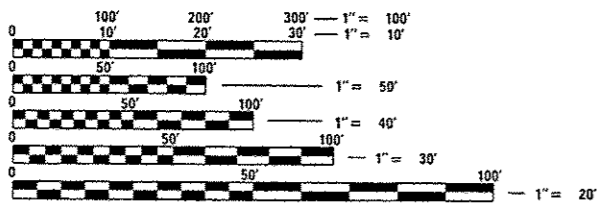
1	COVER SHEET
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3	SUMMARY OF QUANTITIES
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6	SCHEDULES
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13	MISCELLANEOUS DETAILS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-04	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
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
701901-073	TRAFFIC CONTROL DEVICES



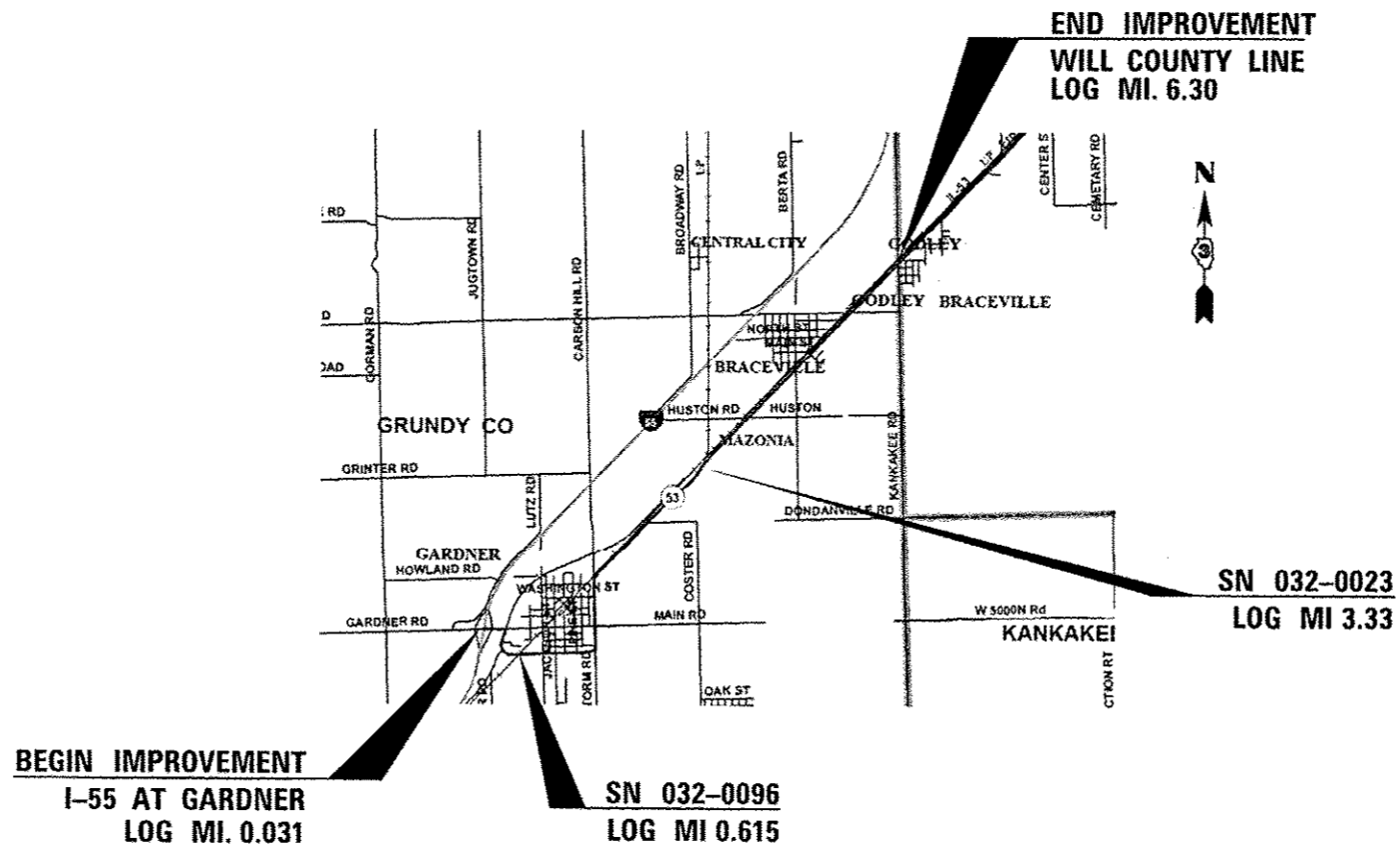
FUNCTIONAL CLASSIFICATION
RURAL MINOR ARTERIAL
2011 ADT = 1600
PV = 89.1%, SU = 7.8%, MU = 3.1%



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: JOE KANNEL, PE
UNIT CHIEF: MICHELE LINDEMANN, PE
DISTRICT NO. (815)-434-6131
CONTRACT NO. 66C55



LOCATION MAP

GROSS LENGTH = NET LENGTH = 6.269 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *10-10 2012*
Paul A. Cochran
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 7 2012
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 2012
William R. Frey, Jr.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OF ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED BASED UPON THE UNIT BID PRICE.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES FOR CRACK FILLING:

CRACK FILLING	0.35	POUNDS / FOOT
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Tom Rasmit
DISTRICT STUDIES & PLANS ENGINEER

DATE: 10-10-12

EXAMINED BY: Harbert K. Long
DISTRICT CONSTRUCTION ENGINEER

Wayne Phillips
DISTRICT MATERIALS ENGINEER

Samuel A. Huber
DISTRICT OPERATIONS ENGINEER

FILE NAME *	USER NAME * lindemann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pe_work\pwidot\lindemann\0304284	0366095-sh1-cover.dgn	DRAWN -	REVISED -			846	(5&6)	GRUNDY	13	2	
	PLDT SCALE * 100.0000' / in.	CHECKED *	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 66C55			
	PLDT DATE * 10/3/2012	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

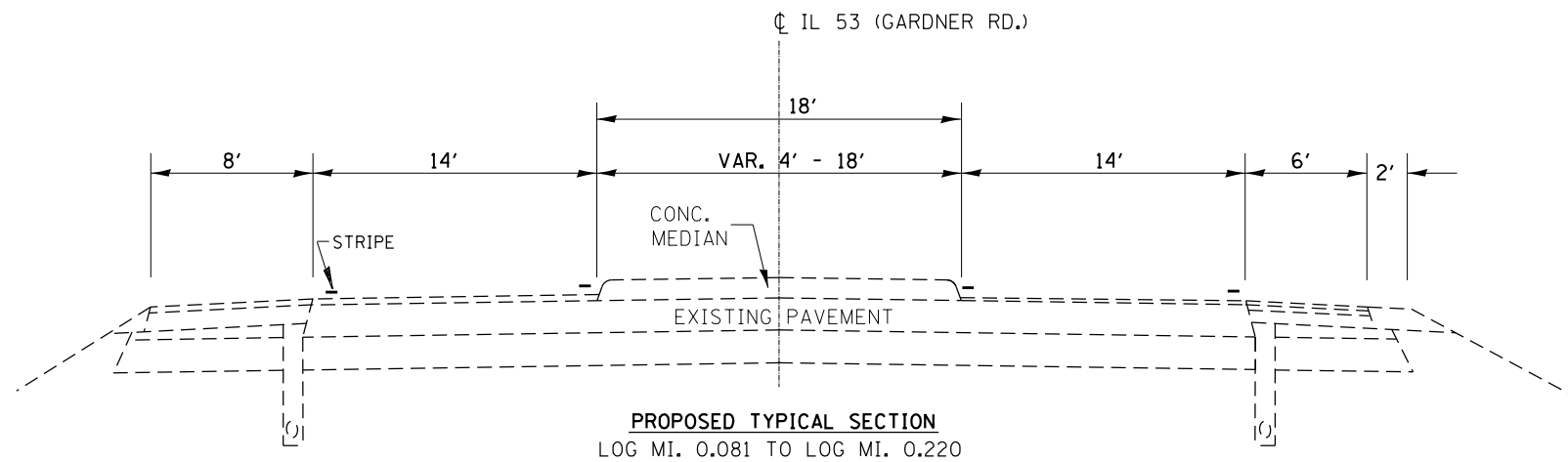
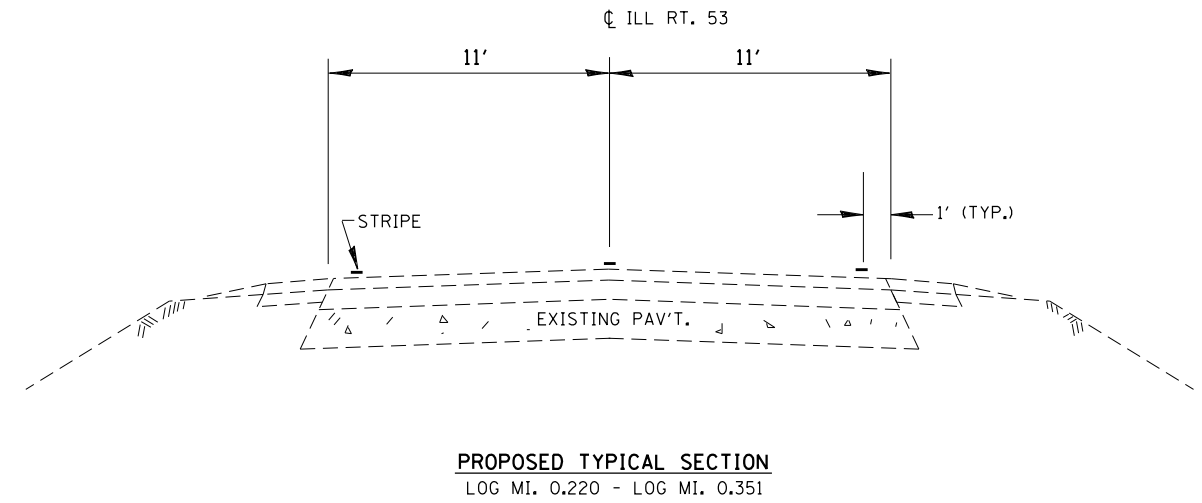
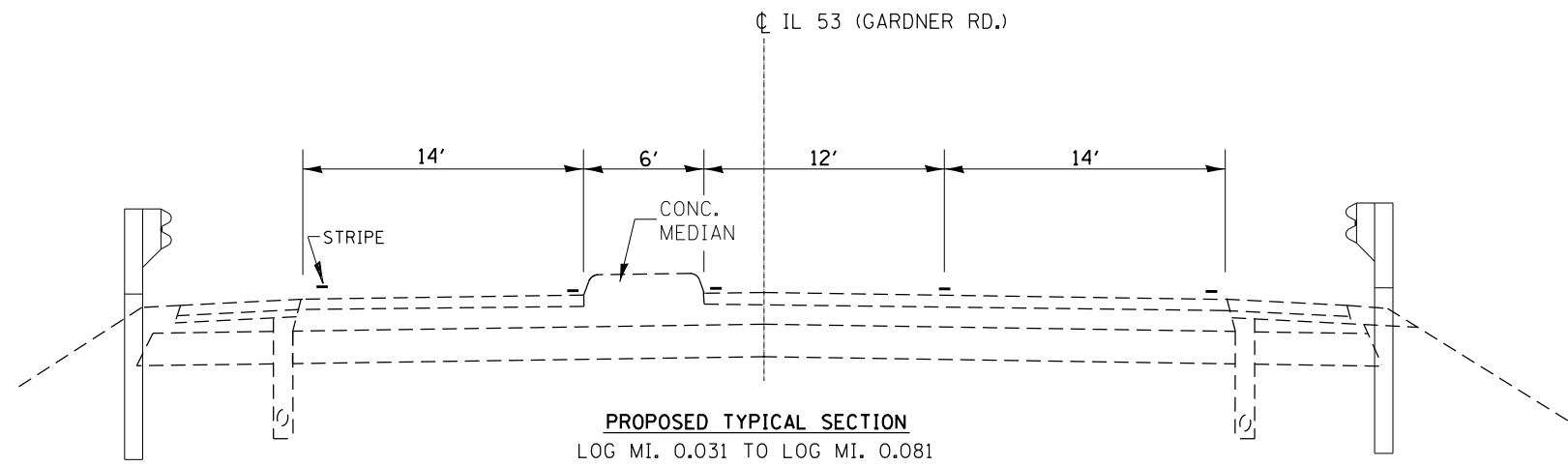
100% FED.

CONSTR. CODE
0005
TOTAL
RURAL

CODE NO.	ITEM	UNIT	TOTAL
45100100	CRACK ROUTING (PAVEMENT)	FOOT	21592
45100200	CRACK FILLING	POUND	7558
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	50 FT	277
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	80262
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	7477
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	733
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	1674
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	191
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1

* SPECIALTY ITEMS

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PLOT SCALE : 1/8"=1'-0"	CHECKED -	REVISED -	SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 66C55			
PLOT DATE : 10/9/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT										

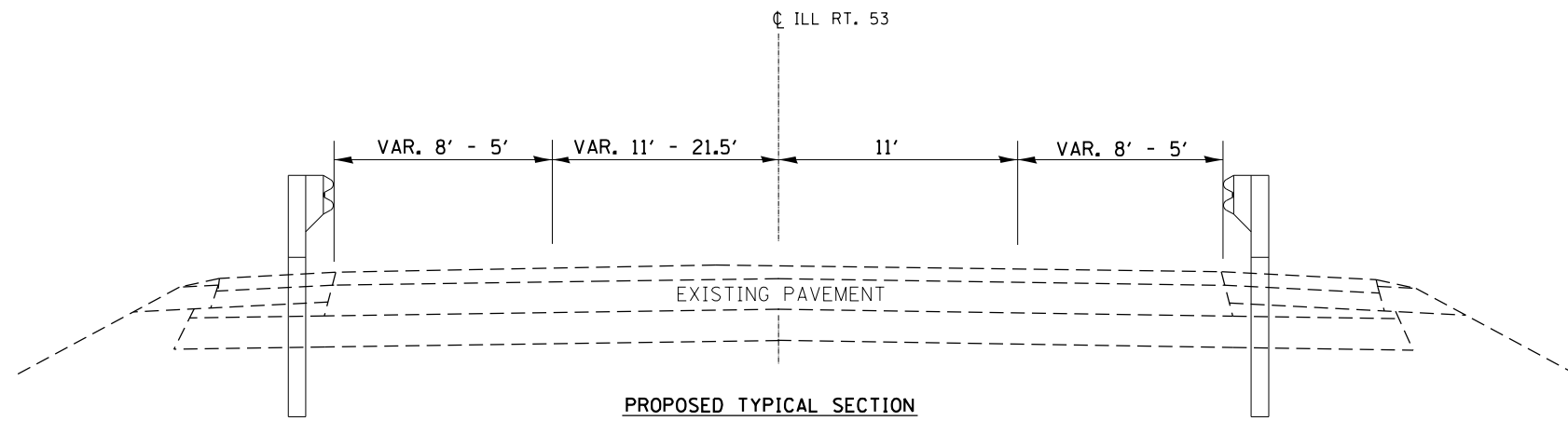


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

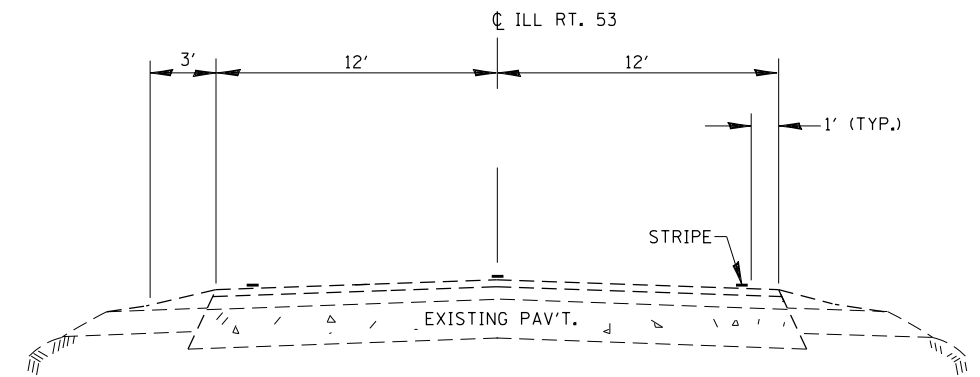
TYPICAL SECTIONS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	(5&6)	GRUNDY	13	4
CONTRACT NO. 66C55				
ILLINOIS FED. AID PROJECT				



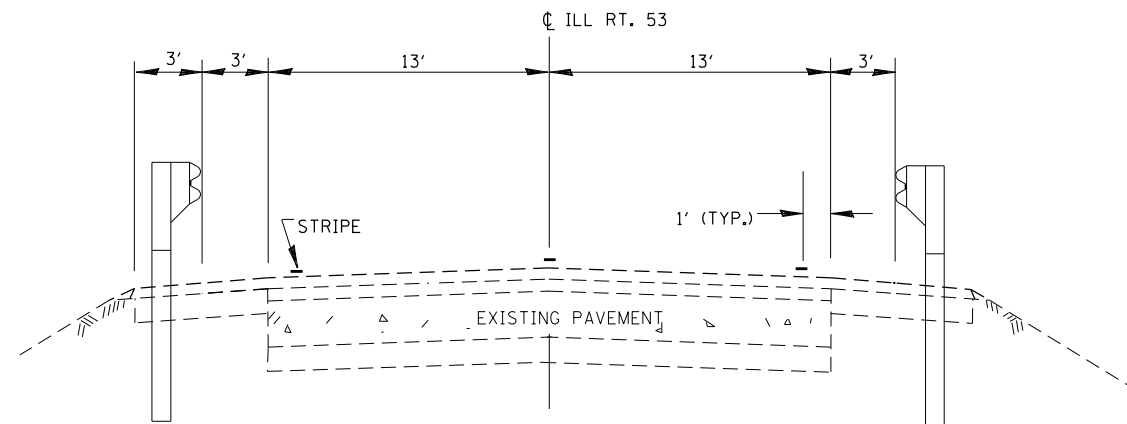
PROPOSED TYPICAL SECTION

LOG MI. 0.351 TO LOG MI. 0.831
 CURB & GUTTER SECTION LT
 LOG MI. 0.361 TO LOG MI. 0.549



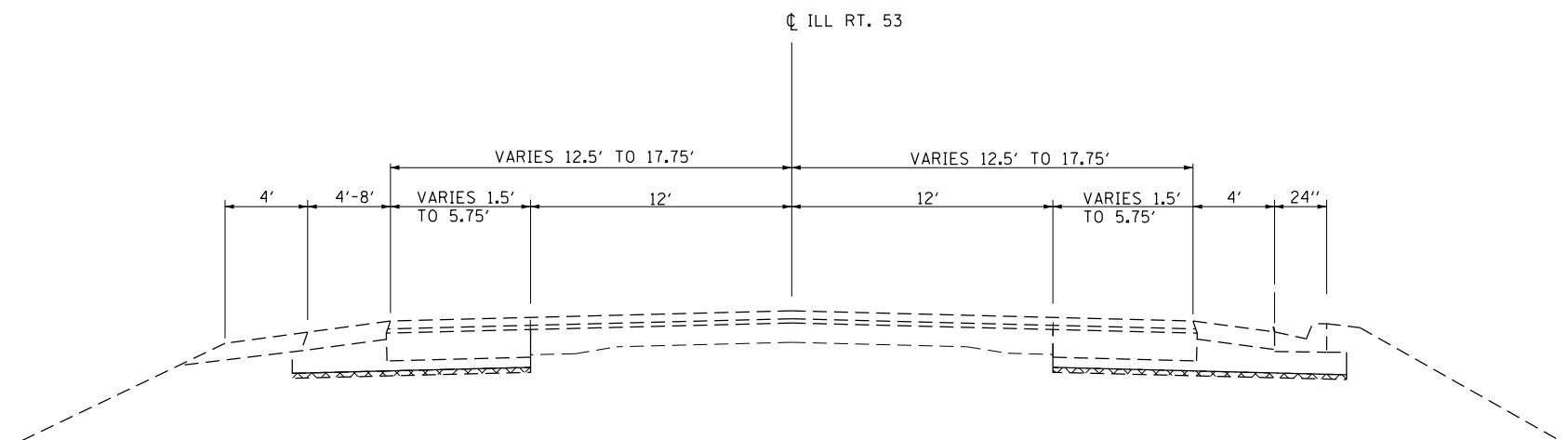
PROPOSED TYPICAL SECTION

LOG MI. 0.831 - LOG MI. 1.982
 LOG MI. 2.148 TO LOG MI. 4.840
 LOG MI. 5.076 TO LOG MI. 6.30



PROPOSED TYPICAL SECTION

LOG MI. 1.982 TO LOG MI. 2.148



PROPOSED TYPICAL SECTION

LOG MI. 4.840 TO LOG MI. 5.076
 BRACEVILLE INTERSECTION
 AT MITCHELL ROAD

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

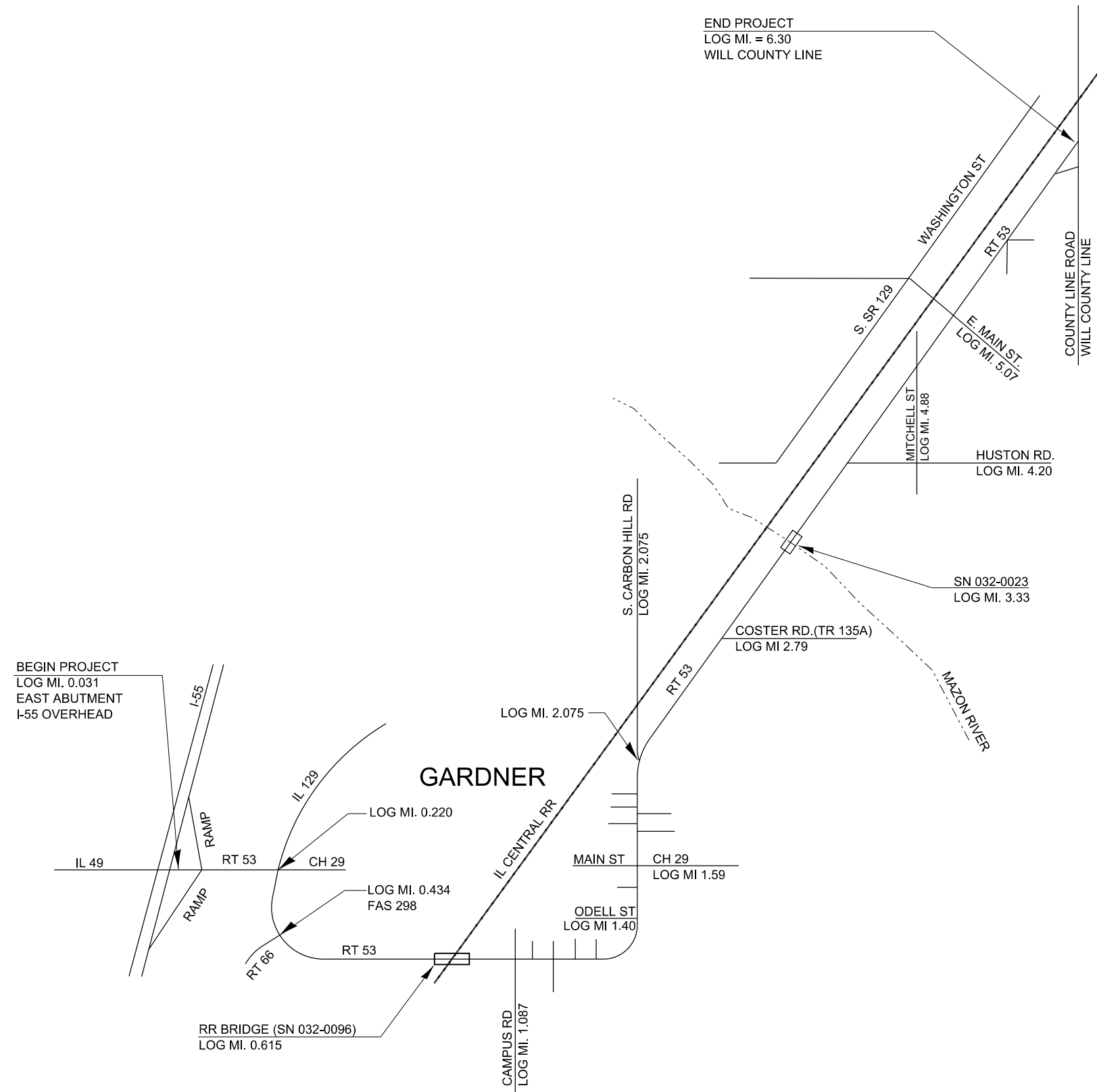
TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(5&6)	GRUNDY	13	5
			CONTRACT NO. 66C55	
ILLINOIS FED. AID PROJECT				

CRACK ROUTING AND FILLING			
LOCATION	DESCRIPTION	CRACK ROUTING (PAVEMENT)	CRACK FILLING
LOG MI		FOOT	POUND
0.031 TO 0.220	I-55 TO IL 129	868	304
0.220 TO 0.615	IL 129 TO SN 032-0096	1530	536
0.615 TO 1.087	SN 032-0096 TO CAMPUS RD	392	137
1.087 TO 1.40	CAMPUS RD TO ODELL ST	96	34
1.40 TO 1.59	ODELL ST TO MAIN ST	589	206
1.59 TO 2.075	MAIN ST TO S. CARBON HILL RD	489	171
2.075 TO 2.79	S. CARBON HILL RD TO COSTER RD	2034	712
2.79 TO 3.33	COSTER RD TO SN 032-0023	2086	730
3.33 TO 4.20	SN 032-0023 TO HUSTON RD	704	246
4.20 TO 4.88	HUSTON RD TO MITCHELL ST	910	319
4.88 TO 6.30	MITCHELL ST TO THE WILL CO LINE	11894	4163
TOTAL		21592	7558

MODIFIED URETHANE PAVEMENT MARKING SCHEDULE									
LOCATION	LENGTH	4"		6"	8"	12"	12"	24"	LETTERS & SYMBOLS
		WHITE FOOT	YELLOW FOOT	YELLOW FOOT	WHITE FOOT	WHITE FOOT	YELLOW FOOT	WHITE FOOT	SO FT
GRUNDY COUNTY									
MEDIAN AREA AT I-55 OVERHEAD									
LOG MI. 0.031 TO 0.056	132.0	264	264		132.0				31.2
LOG MI. 0.056 TO 0.066	52.8	105.6	105.6		52.8				
LOG MI. 0.066 TO 0.078	63.4	126.8							
LOG MI. 0.078 TO 0.082	21.1	42.2							
LOG MI. 0.082 TO 0.092	52.8	105.6	105.6						
LOG MI. 0.092 TO 0.108	84.5	169	169						
LOG MI. 0.108 TO 0.177	364.5	729	729						
LOG MI. 0.177 TO 0.190	68.6	137.2							
IL 53 & IL 129 INTERSECTION									
SEE PAVEMENT MARKING SHEETS									
LOG MI. 0.190 TO 0.260	369.6	1160	760	30	160	290		60	
LOG MI. 0.260 TO 0.351	480.5	961		120					
LOG MI. 0.351 TO 0.408	300.96	601.92	601.9						
LOG MI. 0.434 at OLD RT 66 TO 600' S. ON RT. 66									
	600	1200		150		100			
LOG MI. 0.408 TO 0.566	834.2	1668.4	1668.4						
LOG MI. 0.566 TO 0.622	295.7	591.4	591.4						
LOG MI. 0.622 TO 0.736	601.9	1203.8	734.4						
LOG MI. 0.736 TO 0.831	501.6	1003.2	105.6	26					
LOG MI. 0.831 TO 1.982	6077.3	12154.6		1519				36	
LOG MI. 1.982 TO 2.148	876.5	1753		219					
LOG MI. 2.148 TO 3.187	5485.9	10971.8		1371					
LOG MI. 3.187 TO 3.389	1066.5	2133	800						
LOG MI. 3.389 TO 3.430	216.5	433	217	54					
LOG MI. 3.430 TO 3.781	1853.3	3706.6	1150	463					
LOG MI. 3.781 TO 4.840	5591.52	11183.04		1398					
MITCHELL ST. INTERSECTION									
SEE PAVEMENT MARKING SHEETS									
LOG MI. 4.840 TO 4.896	295.7	591.4	1182.8				135		
LOG MI. 4.896 TO 4.930	177	354	708				75		
LOG MI. 4.930 TO 4.983	279.8	559.6	588	60	388	256		95	184.8
LOG MI. 4.983 TO 5.013	158.4	316.8	633.6				75		
LOG MI. 5.013 TO 5.028	79.2	158.4	316.8				67.5		
LOG MI. 5.028 TO 5.076	253.4	506.8	1013.6				67.5		
LOG MI. 5.076 TO 6.30	6463	12926		1800					61.2
SUBTOTAL		67817	12445	7477	733	646	1028	191	277
TOTAL		80262		7477	733	1674		191	277

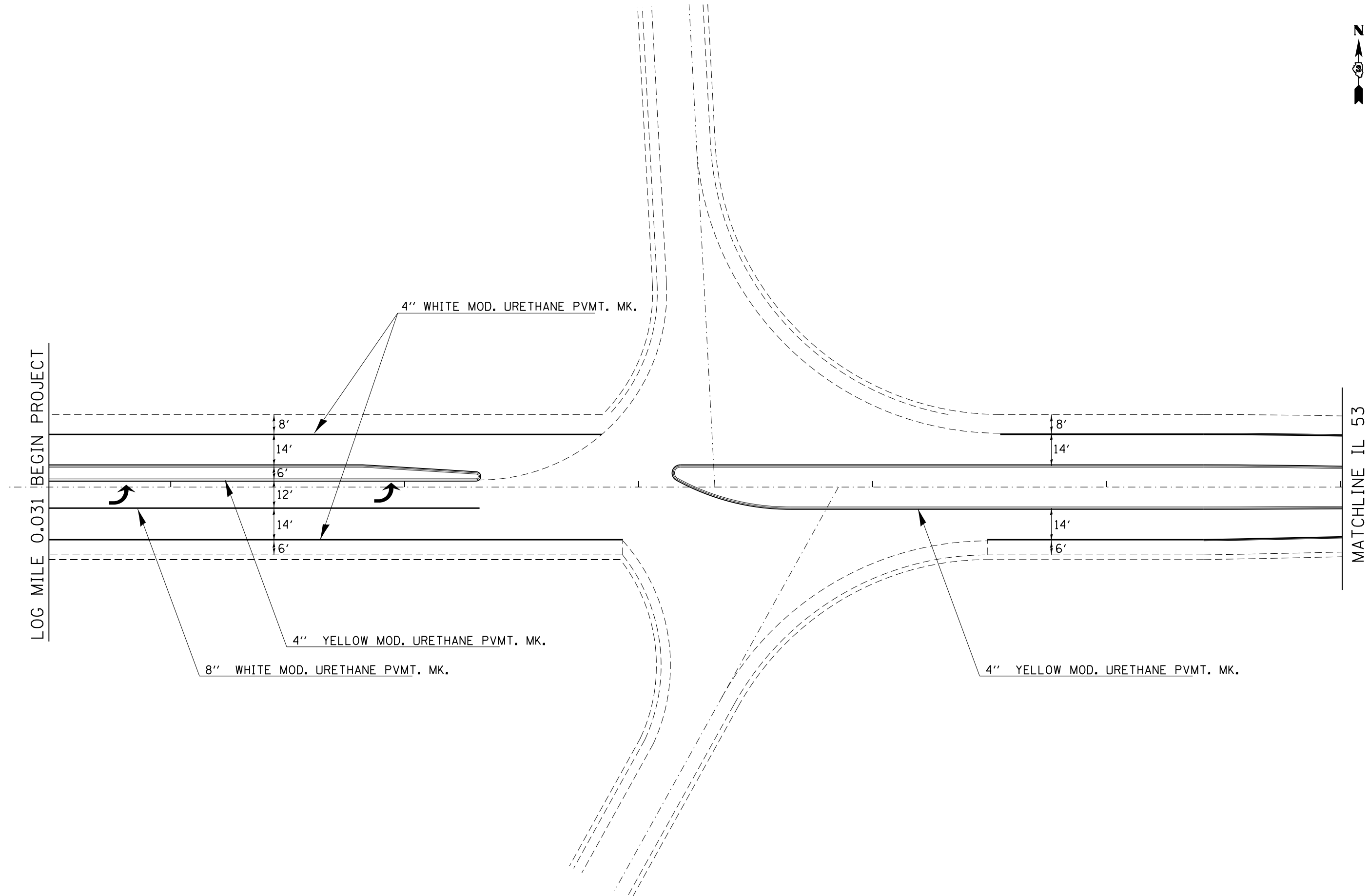


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROJECT LAYOUT			
SCALE: NTS	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	(5&6)	GRUNDY	13	7
CONTRACT NO. 66C55				
ILLINOIS FED. AID PROJECT				



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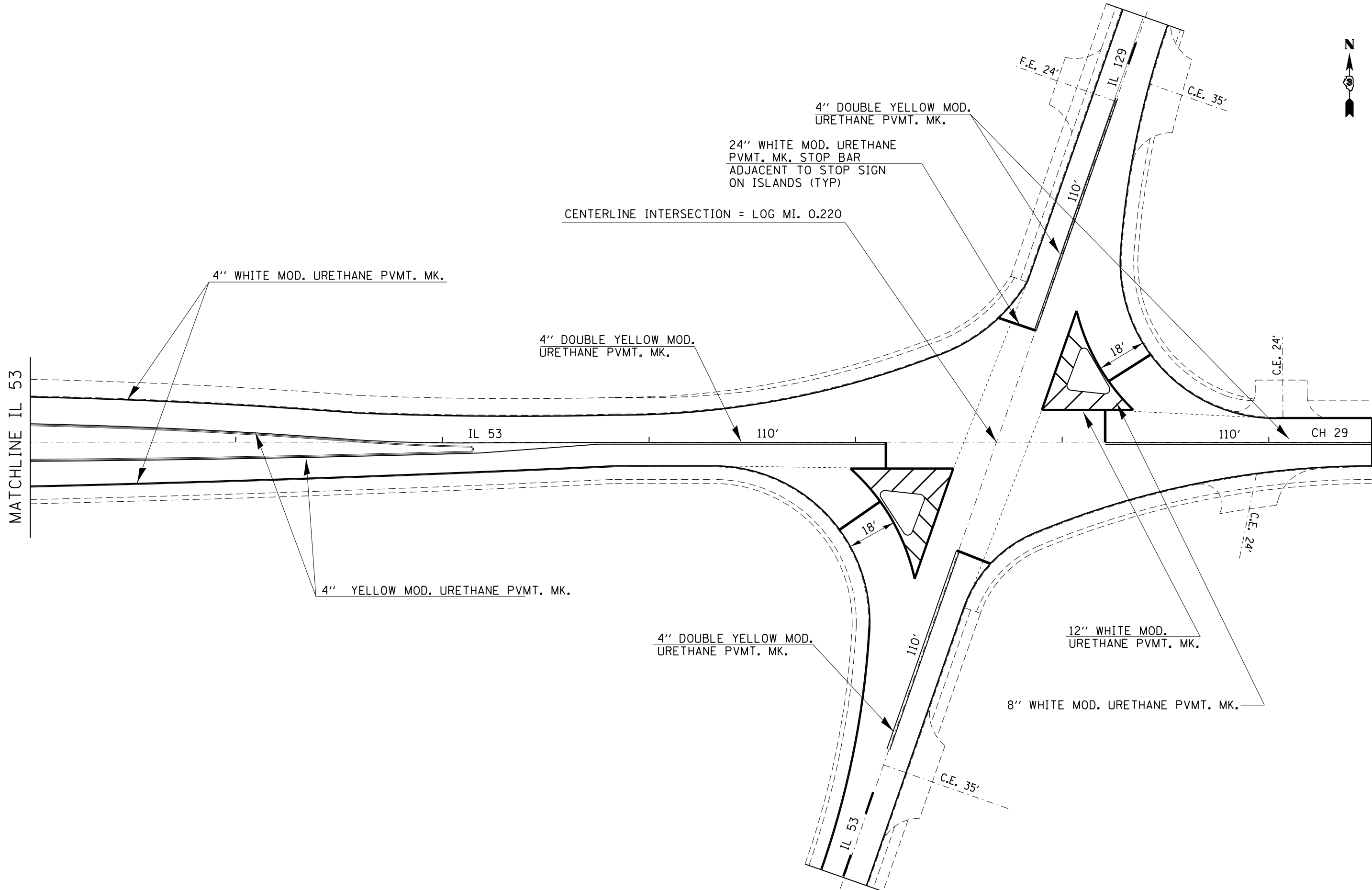
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	(5&6)	GRUNDY	13	8
CONTRACT NO. 66C55				
ILLINOIS FED. AID PROJECT				



MATCHLINE IL 53



4" WHITE MOD. URETHANE PVMT. MK.

4" DOUBLE YELLOW MOD. URETHANE PVMT. MK.
24" WHITE MOD. URETHANE PVMT. MK. STOP BAR ADJACENT TO STOP SIGN ON ISLANDS (TYP)

CENTERLINE INTERSECTION = LOG MI. 0.220

4" DOUBLE YELLOW MOD. URETHANE PVMT. MK.

4" YELLOW MOD. URETHANE PVMT. MK.

4" DOUBLE YELLOW MOD. URETHANE PVMT. MK.

12" WHITE MOD. URETHANE PVMT. MK.

8" WHITE MOD. URETHANE PVMT. MK.

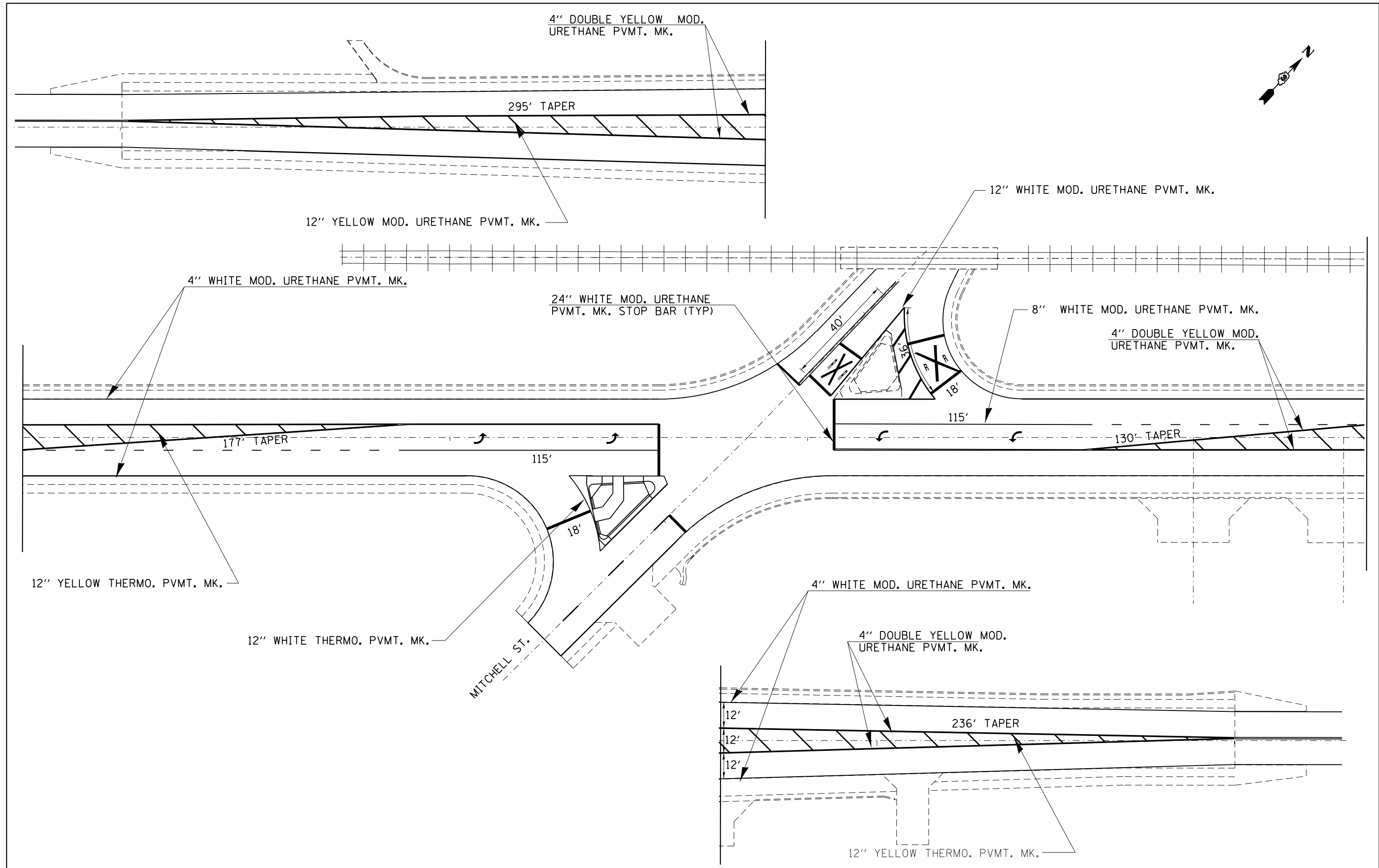
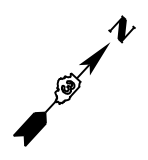
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	(5&6)	GRUNDY	13	9
CONTRACT NO. 66C55				
ILLINOIS FED. AID PROJECT				



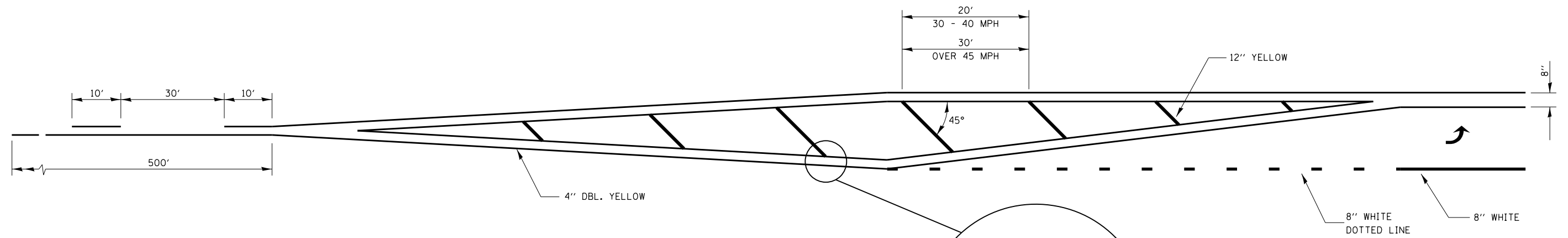
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**STATE OF ILLINOIS
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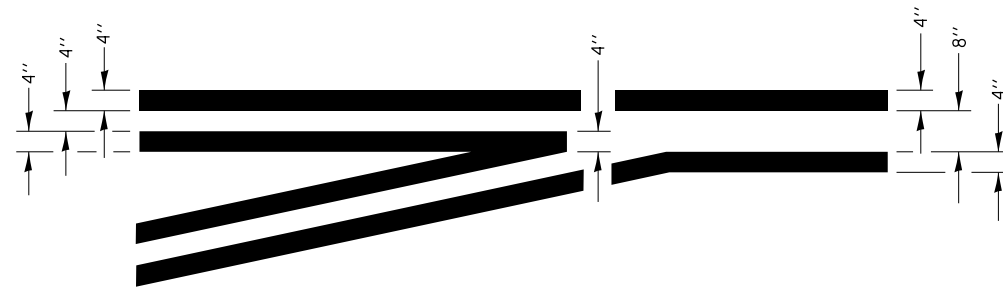
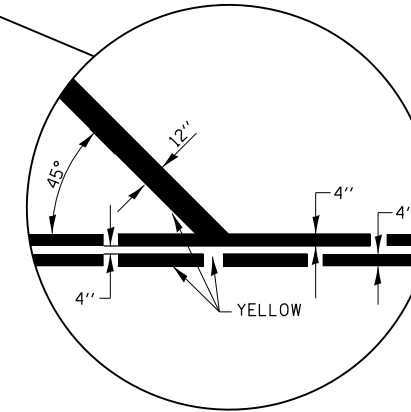
**PAVEMENT MARKING DETAILS
IL 53 & MITCHELL ST.**

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

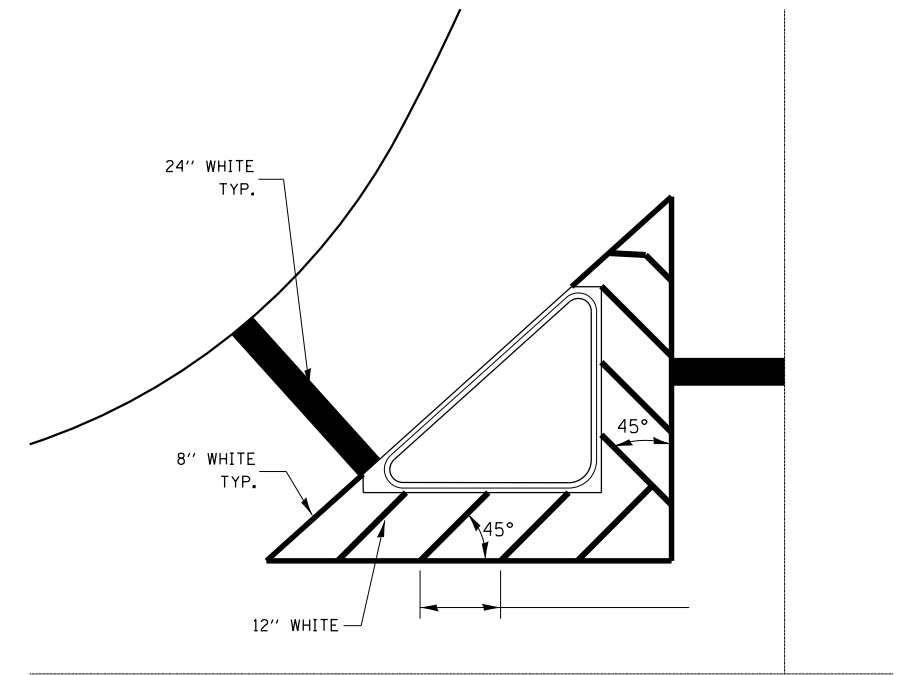
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846	(5&6)	GRUNDY	13	10
CONTRACT NO. 66C55				
ILLINOIS FED. AID PROJECT				



LEFT TURN LANE WITH APPROACH MEDIAN



**TYPICAL APPLICATION
LEFT TURN LANES**



10' - SMALL ISLAND
15' - LARGE ISLAND

TYPICAL ISLAND

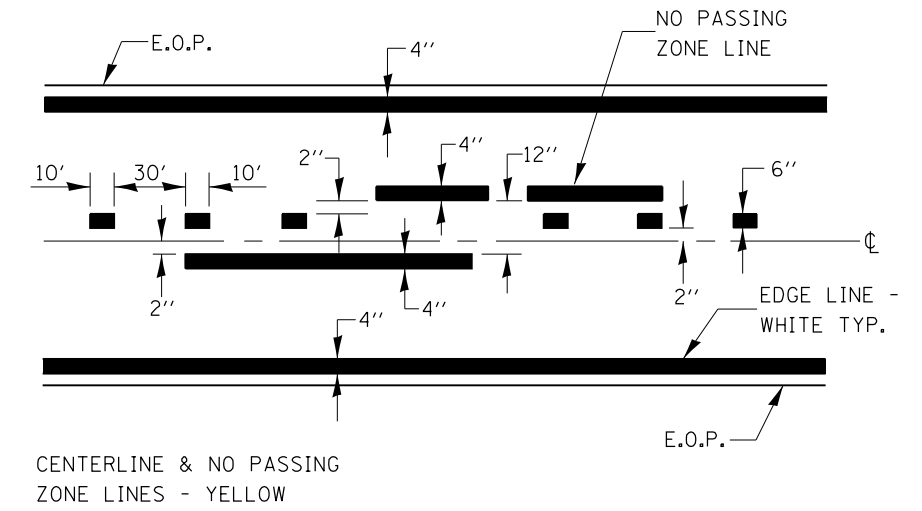
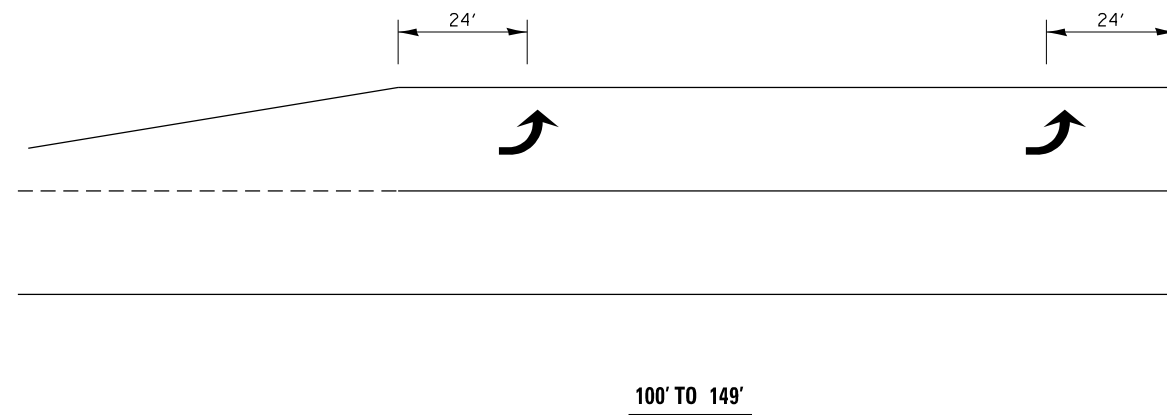
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

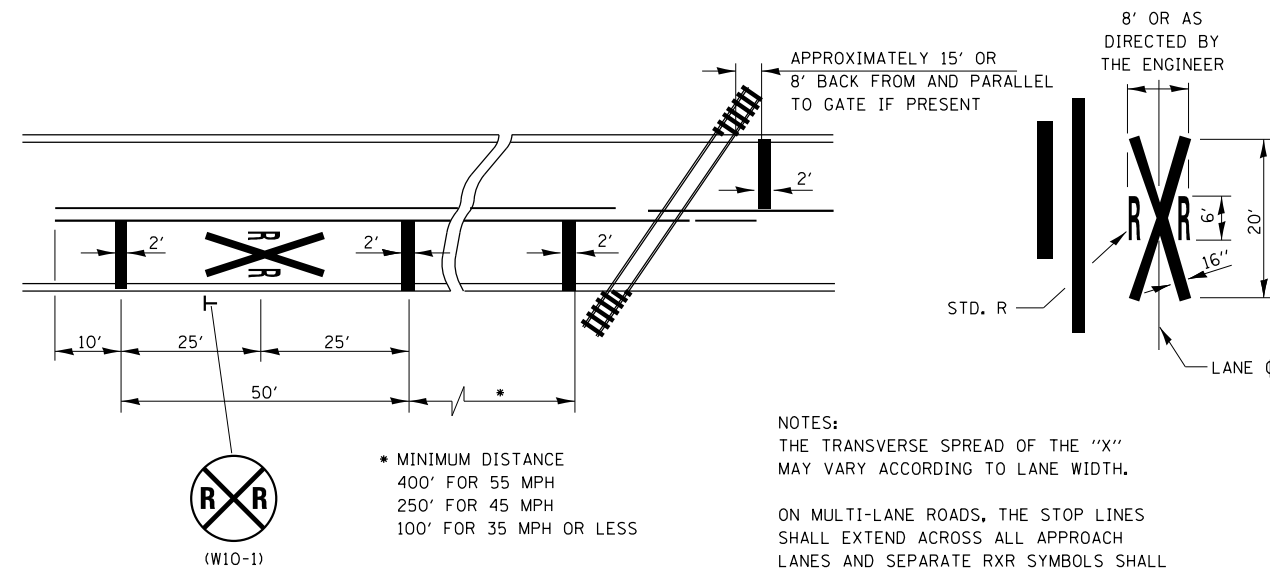
PAVEMENT MARKING DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	(5&6)	GRUNDY	13	11
CONTRACT NO. 66C55				
ILLINOIS FED. AID PROJECT				



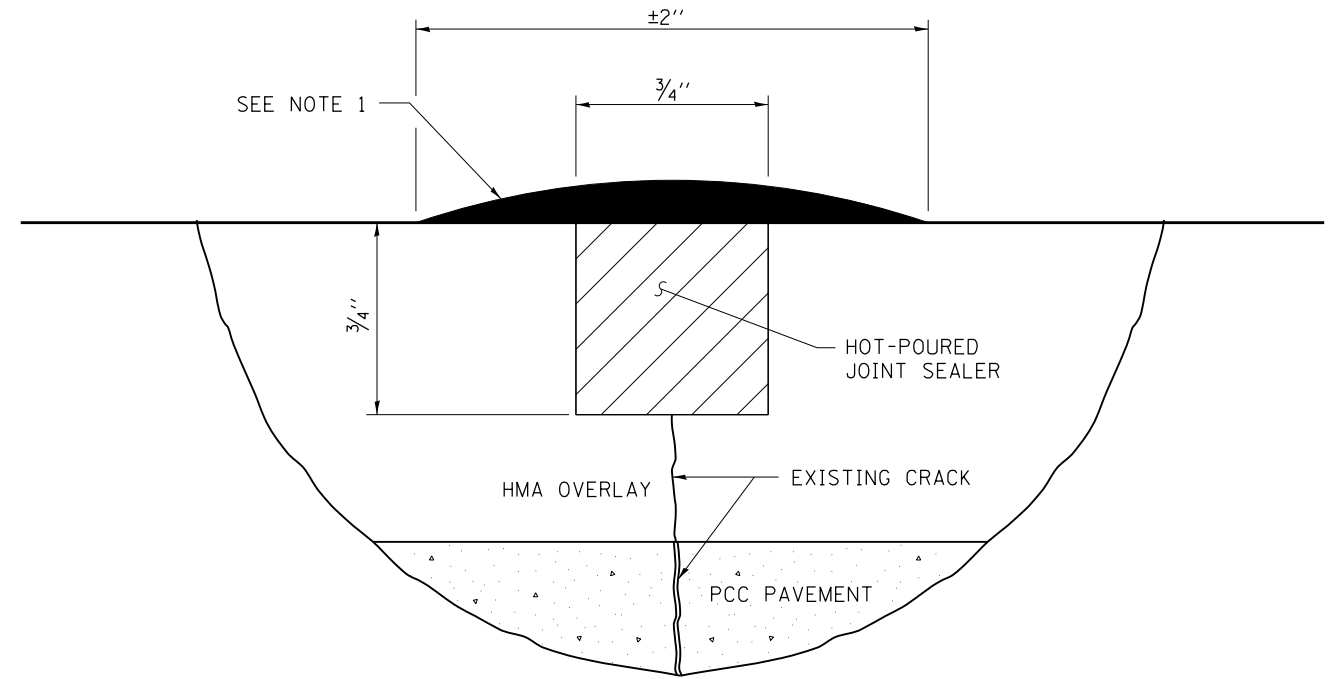
PAVEMENT MARKING



NOTES:
 THE TRANSVERSE 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).

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

FILE NAME =	USER NAME = lndemannms	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\pwidot\lndemannms\d0304284\0366C55-sh1-details.dgn		DRAWN -	REVISED -		846	(5&6)	GRUNDY	13	12				
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 66C55								
PLOT DATE = 10/9/2012		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			



CRACK ROUTING AND SEALING DETAIL

NOTE 1

THE CRACK OR JOINT SHALL BE SLIGHTLY OVERFILLED AND IMMEDIATELY SQUEEGEED TO PROVIDE A "BAND-AID" TYPE EFFECT APPROXIMATELY TWO INCHES WIDE, FLUSH WITH THE PAVEMENT SURFACE, AND WITH THE EDGES FEATHERED OUT.

FILE NAME =	USER NAME = lindemannms	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\lindemannms\d0304284\0366C55-shr-details.dgn	DRAWN -	REVISED -	REVISED -						846	(5&6)	GRUNDY	13	13
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 66C55				ILLINOIS FED. AID PROJECT				
PLOT DATE = 10/9/2012	DATE -	REVISED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				