

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 646 (IL 40)  
SECTION **INTMT SPRING RD REPAIR 2014-1**

**MILLING & RESURFACING  
BUREAU COUNTY**

C-93-115-14

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	*	BUREAU	6	1
ILLINOIS CONTRACT NO. 66D86				

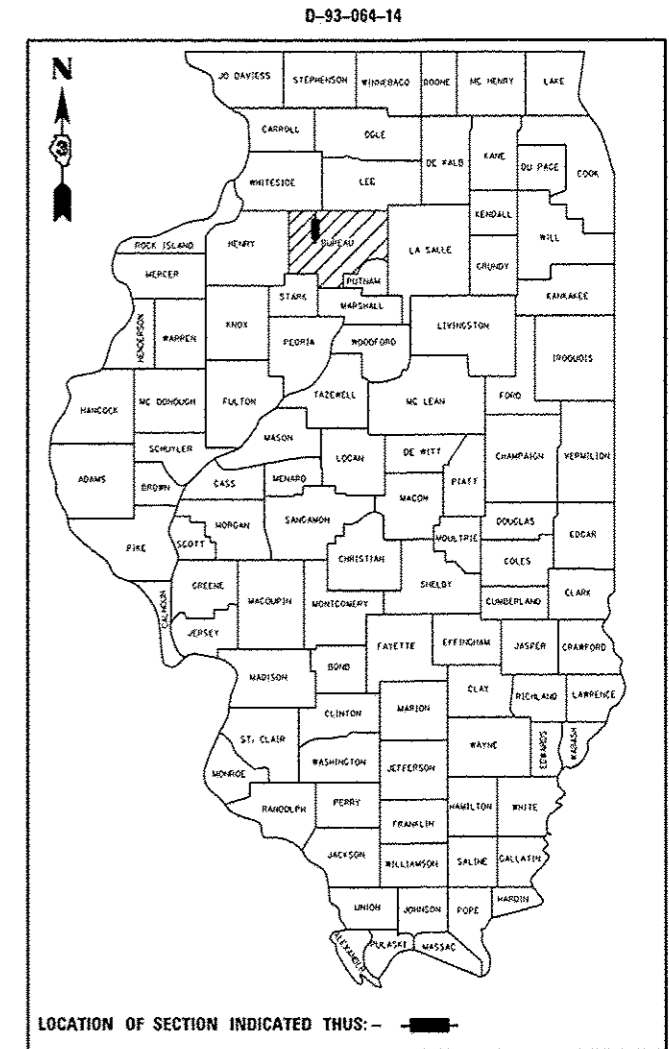
\*INTERMITTENT SPRING ROAD REPAIR 2014-1

**INDEX OF SHEETS**

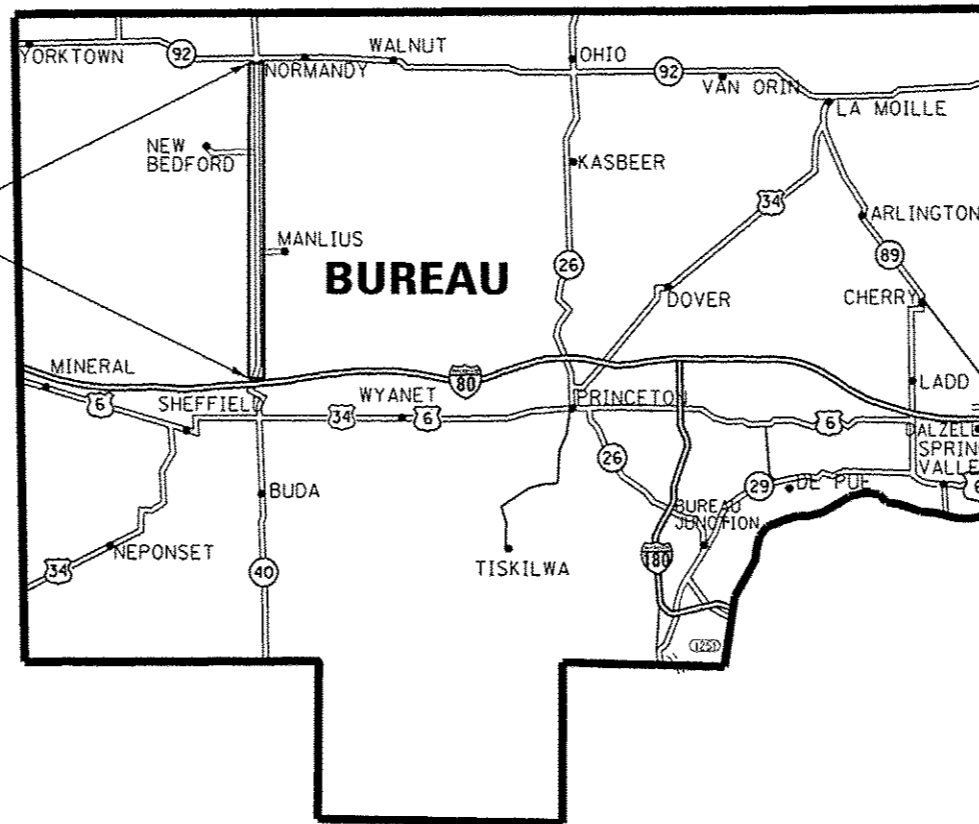
- 1 COVER SHEET
- 2 GENERAL NOTES, & PROJECT LOCATION INFORMATION
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5 SCHEDULES OF QUANTITIES
- 6 DETAILS

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
- 701006-05 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
- 701901-03 TRAFFIC CONTROL DEVICES



IL 92 TO NORTH OF I-80



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

PROJECT ENGINEER: CRAIG REED, P.E.  
UNIT CHIEF: BRAD DUNCAN, P.E.  
DISTRICT 3 NO. (815) 434-6131  
CONTRACT NO. 66D86

GROSS & NET LENGTH = 62568 FT. = 11.85 MILE

**MINOR ARTERIAL (RURAL)**  
2013 ADT = 2450  
PV = 60.20% SU = 17.35% MU = 22.45%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED April 11 2014  
Paul Coates  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9 2014  
John D. Baranzelli, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

May 9 2014  
Orser Osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

**PROJECT LOCATION INFORMATION**

Route IL 40		Location I-80 to IL 92
Log Mile NB	Log Mile SB	Checkpoints
0.00	12.05	N. Side of I-80 Overpass
0.20	11.85	Previous Const. Joint
0.50	11.55	1725 N Rd
1.00	11.05	1775 N Rd
1.50	10.55	1800 N Rd
1.70	10.35	Culvert
2.70	9.35	1925 N Rd
3.00	9.05	Culvert
3.10	8.95	Bridge
3.50	8.55	2000 N Rd
3.60	8.45	Bridge
3.80	8.25	Culvert
4.50	7.55	2100 N Rd
4.70	7.35	Manlius Rd
5.25	6.80	2175 N Rd
5.50	6.55	Culvert
5.70	6.35	Backbone Rd
5.80	6.25	Culvert
6.10	5.95	Culvert
6.40	5.65	Culvert
6.50	5.55	2300 N Rd
6.70	5.35	Culvert
7.15	4.90	Culvert
7.35	4.70	Culvert
7.80	4.25	2425 N Rd
8.10	3.95	Culvert
8.30	3.75	Culvert
8.50	3.55	Culvert
8.55	3.50	2500 N Rd
8.75	3.30	Culvert
9.05	3.00	Bridge
10.20	1.85	Culvert
10.60	1.45	2700 N Rd
11.30	0.75	2775 N Rd
11.60	0.45	Culvert
11.80	0.25	Culvert
12.05	0.00	IL 92

**GENERAL NOTES**

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

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:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

PREPARED BY: *D. Benish*  
DISTRICT STUDIES & PLANS ENGINEER

DATE: 4-11-14

EXAMINED BY: *Harbert Jung* (WR)  
DISTRICT CONSTRUCTION ENGINEER

*May*  
DISTRICT MATERIALS ENGINEER

*Bruce A. ...*  
DISTRICT OPERATIONS ENGINEER

FILE NAME *	USER NAME * duncanbd	DESIGNED -	REVISED -
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	PLOT DATE * 4/10/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROJECT LOCATION INFORMATION &  
GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

*INTERMITTENT SPRING ROAD REPAIR 2014-1				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	*	BUREAU	6	2
CONTRACT NO. 66D86				
ILLINOIS FED. AID PROJECT				

CONSTR. CODE

100% STATE

ROADWAY

0005

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	6	6
40600525	LEVELING BINDER (HAND METHOD), N50	TON	10	10
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	2264	2264
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	20211	20211
67100100	MOBILIZATION	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1332	1332
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	444	444
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	58780	58780
△ 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	6760	6760
△ 78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	1040	1040
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	165	165
X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	9095	9095

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△ SPECIALTY ITEMS

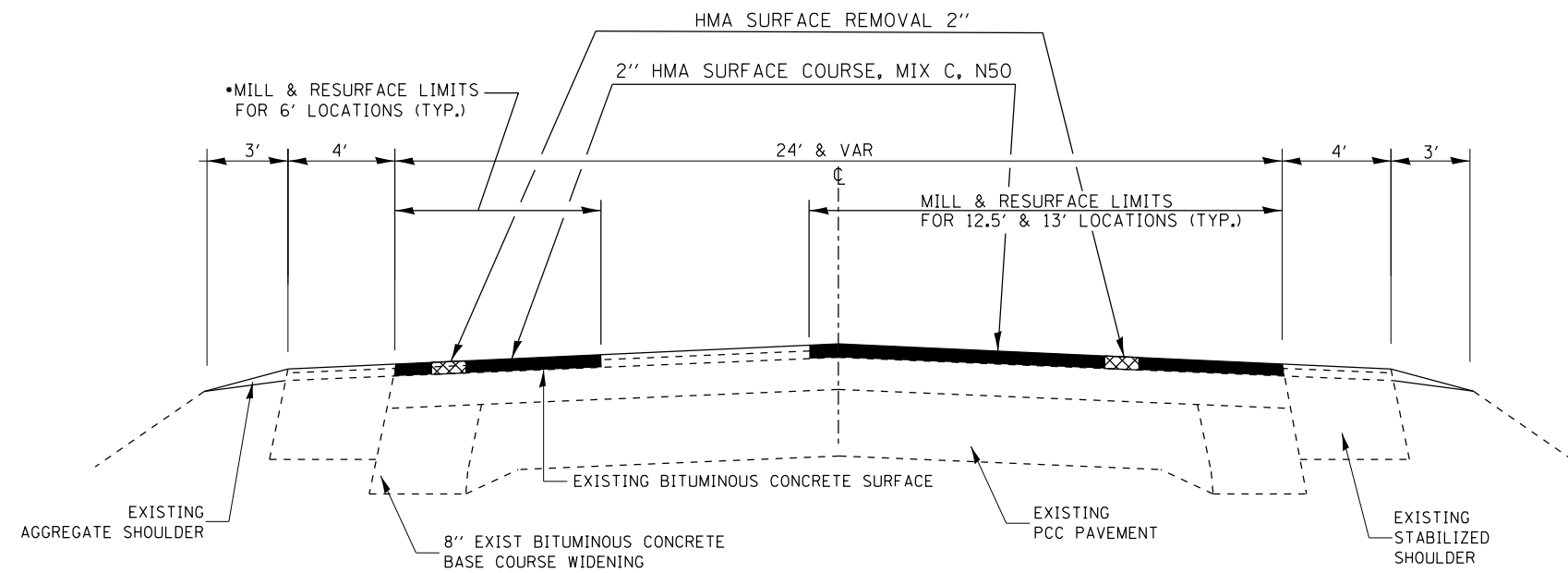
•INTERMITTENT SPRING ROAD REPAIR 2014-1

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		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	*	BUREAU	6	J
CONTRACT NO. 66086			ILLINOIS FED. AID PROJECT	
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.



	HMA SURFACE
PG GRADE	PG64-22
DESIGN AIR VOIDS	4.0% @ N50
MIXTURE COMPOSITION	IL 9.5
FRICTION AGGREGATE	MIXTURE C
DENSITY TEST METHOD	CORES

## TYPICAL SECTION

• SEE SCHEDULE FOR LOCATIONS

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

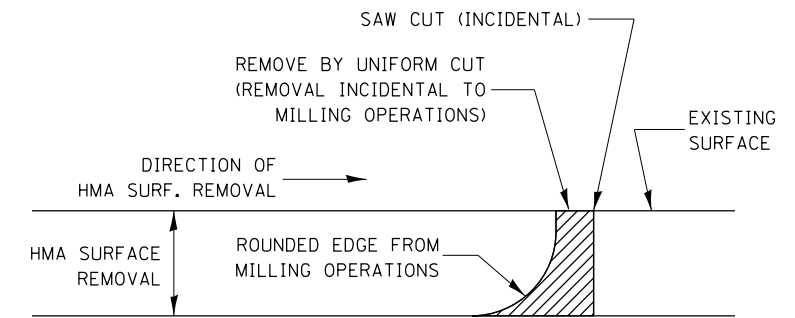
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	•		6	4
			CONTRACT NO. 66D86	
ILLINOIS FED. AID PROJECT				

**IL 40 REPAIR SCHEDULE**

LOCATION LOG MILES	LENGTH FT	MAINLINE		HMA SURF 2" SQ YD	MIX FOR CRKS, JTS FLANGE TON	LEVEL BIND HM N50 TON	HMA SURF CSE MIX C N50 TONS	BIT MAT PRIME COAT POUND	RAISE REFL PAVT MARK REM EACH	PAINT PAVT MARK			SHORT TERM PAVT MARK FOOT	WORK ZONE PAVT MARK REM SQ FT
		WIDTH FT	AREA SQ YD							LINE 4"	LINE 6"	LINE 8"		
		2 APPLICATIONS								FOOT	FOOT	FOOT		
NORTHBOUND														
0.00 NORTH SIDE I-80 OVERPASS														
1.85 - 1.95	550	12.5	763.9	763.9	0.23	0.38	85.56	343.8	7	2200	280		55	18
3.05 - 3.25	1100	12.5	1527.8	1527.8	0.46	0.76	171.11	687.5	14	4400	560		110	37
3.50 - 3.70	1100	12.5	1527.8	1527.8	0.46	0.76	171.11	687.5	14	4400	560		110	37
4.00	30	12.5	41.7	41.7	0.01	0.02	4.67	18.8		120	20		3	1
4.60 - 5.00	2200	13	3177.8	3177.8	0.95	1.59	355.91	1430.0	28	8800	1100	520	220	73
6.20	30	12.5	41.7	41.7	0.01	0.02	4.67	18.8		120	20		3	1
7.70 - 8.10	2200	6	1466.7	1466.7	0.44	0.73	164.27	660.0		4400				
8.95 - 9.15	1100	12.5	1527.8	1527.8	0.46	0.76	171.11	687.5	14	4400	560		110	37
SOUTHBOUND														
0.00 IL 92 SOUTH CONST JT														
2.65 - 2.75	550	12.5	763.9	763.9	0.23	0.38	85.56	343.8	7	3300	280		55	18
2.90 - 3.10	1100	12.5	1527.8	1527.8	0.46	0.76	171.11	687.5	14	4400	560		110	37
6.10	30	12.5	41.7	41.7	0.01	0.02	4.67	18.8		120	20		3	1
7.10 - 7.50	2200	13	3177.8	3177.8	0.95	1.59	355.91	1430.0	28	8800	1100	520	220	73
8.40 - 8.60	1100	12.5	1527.8	1527.8	0.46	0.76	171.11	687.5	14	4400	560		110	37
8.80 - 9.00	1100	12.5	1527.8	1527.8	0.46	0.76	171.11	687.5	14	4400	560		110	37
9.40 - 9.60	1100	12.5	1527.8	1527.8	0.46	0.76	171.11	687.5	14	4400	560		110	37
9.95	30	12.5	41.7	41.7	0.01	0.02	4.67	18.8		120	20		3	1
<b>TOTAL</b>			<b>20211.1</b>	<b>20211</b>	<b>6</b>	<b>10</b>	<b>2264</b>	<b>9095</b>	<b>165</b>	<b>58780</b>	<b>6760</b>	<b>1040</b>	<b>1332</b>	<b>444</b>

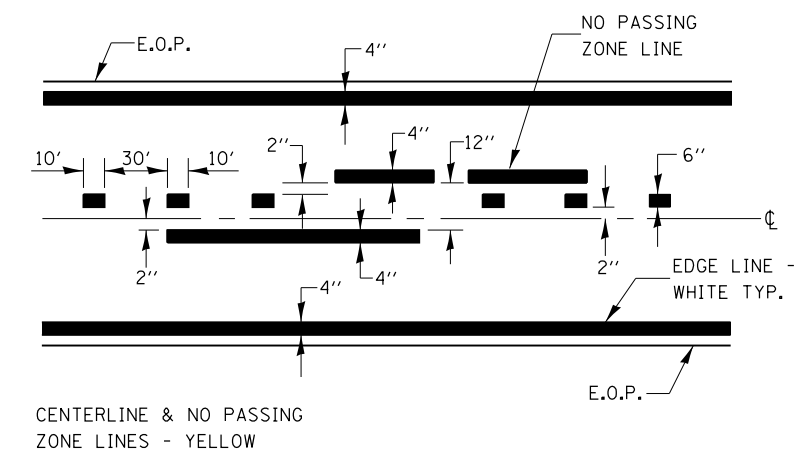
•INTERMITTENT SPRING ROAD REPAIR 2014-1

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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 66D86							
PLOT DATE = 4/10/2014	DATE -	REVISED -	SCALE:			SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT



NOTE:  
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE,  
 THEN A SAW CUT SHALL BE USED TO MANUFACTURE  
 A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL.  
 THE ENGINEER SHALL BE THE SOLE JUDGE  
 CONCERNING THE USE OF THIS DETAIL

### HMA DETAIL AT BUTT JOINTS



### PAVEMENT MARKING

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	PLOT DATE = 4/10/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>DETAILS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

•INTERMITTENT SPRING ROAD REPAIR 2014-1			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
646	•	BUREAU	6
		SHEET NO.	6
			CONTRACT NO. 66D86
ILLINOIS FED. AID PROJECT			