

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
591	(16R)RS-4	DEKALB	8	1
ILLINOIS			66973	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

FAP 591 (US 34)
(16R)RS-4
PROJECT HPP-4094(002)
3P RESURFACING
DEKALB COUNTY

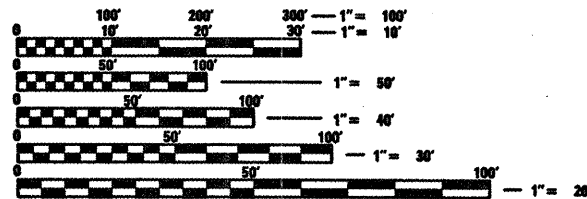
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INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5 SCHEDULES
- 6 LOCATION MAP
- 7-8 DETAILS

LIST OF STANDARDS

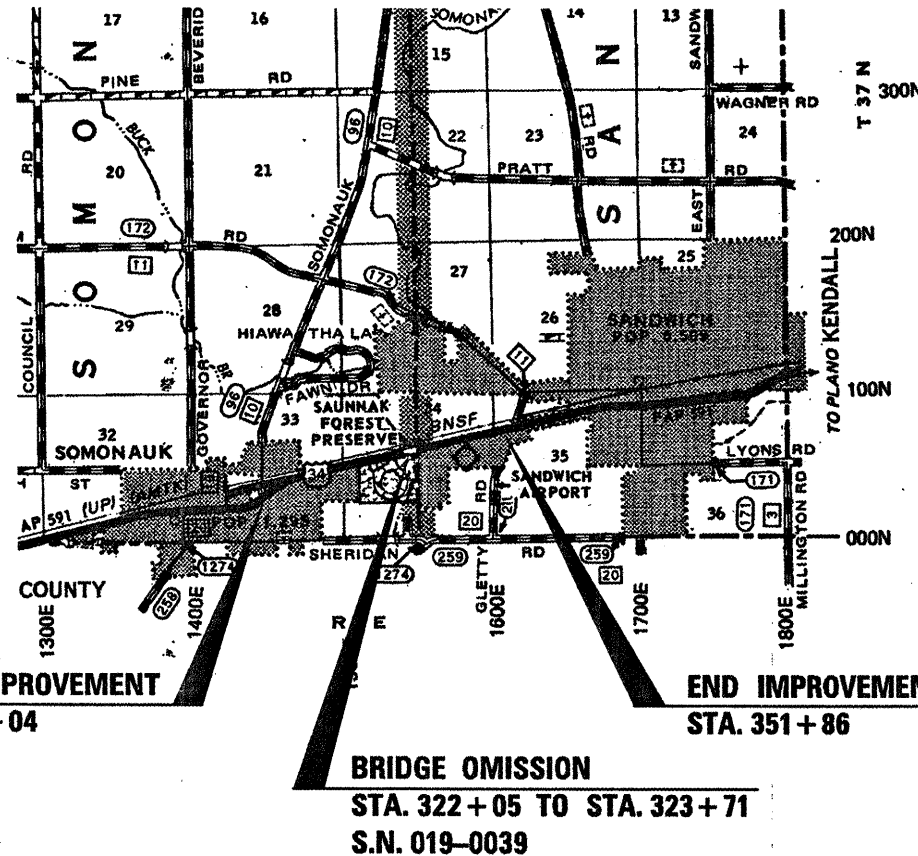
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 406201-01 MAILBOX TURNOUT
- 442201-03 CLASS C AND D PATCHES
- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING & RESURFACING PROJECTS
- 667101-01 PERMANENT SURVEY MARKERS
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-03 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701201-03 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-02 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701901-01 TRAFFIC CONTROL DEVICES
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS



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

DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: CRAIG REED
UNIT CHIEF: MARK JONES
TOWNSHIPS: SANDWICH, SOMONAUK
CONTRACT NO. 66973

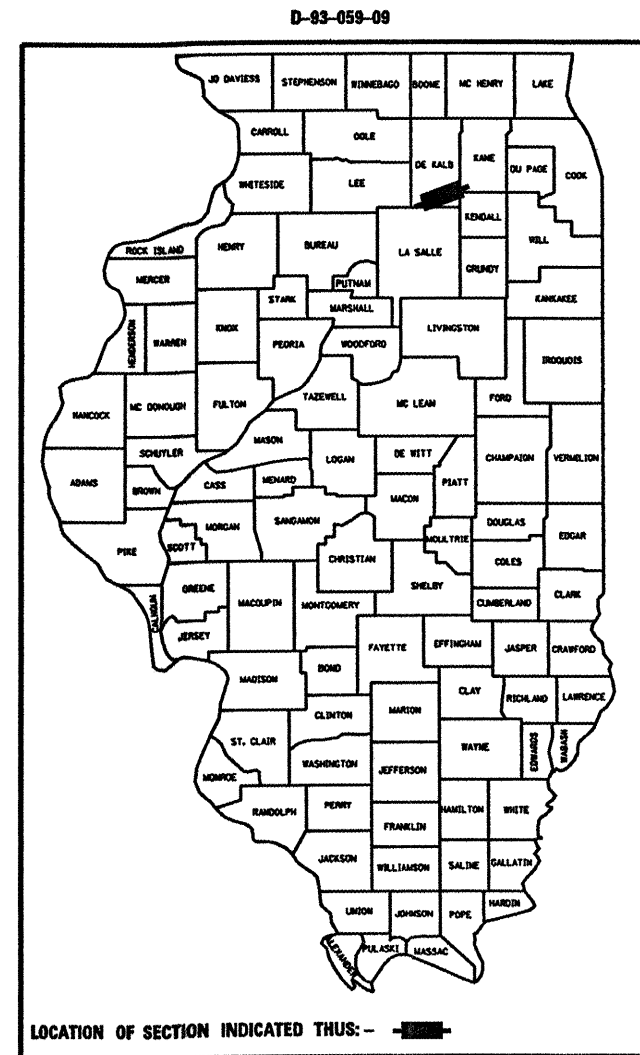


BEGIN IMPROVEMENT
STA. 283+04

END IMPROVEMENT
STA. 351+86

BRIDGE OMISSION
STA. 322+05 TO STA. 323+71
S.N. 019-0039

GROSS LENGTH = 6882 FT. = 1.3 MILES
NET LENGTH = 6715 FT. = 1.27 MILES



LOCATION OF SECTION INDICATED THUS: - - -

2009 ADT = 12,100

P.V. = 93% S.U. = 4% M.U. = 3%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20____

Charles G. Ingersoll
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
May 8, 2009

Christine M. Reed
ENGINEER OF DESIGN AND ENVIRONMENT
May 8, 2009

Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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GENERAL NOTES

THE THICKNESS OF BITUMINOUS MIXTURES 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 BITUMINOUS MIXTURE IS PLACED.

THE BITUMINOUS SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE BITUMINOUS SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE BITUMINOUS SURFACE

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

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW BITUMINOUS 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 LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

THE EXISTING SHOULDERS ARE LOW. IN THE EVENT THAT CONSTRUCTION OPERATIONS RESULT IN A DROP OFF GREATER THAN 3" BETWEEN THE EDGE OF PAVEMENT OR EDGE OF SHOULDER WITHIN 3' OF THE EDGE OF PAVEMENT AND THE EARTH OR AGGREGATE SHOULDERS, THEN THE DROP OFF SHALL BE PROTECTED ACCORDING TO ARTICLE 701.04(B)(1) OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR TRAFFIC CONTROL.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
BIT MATERIALS (PRIME COAT) ON AGGREGATE BASES	0.375	GAL / SQ YD
BITUMINOUS MATERIALS (PRIME COAT)	0.08	GAL / SQ YD
FOR ADDITIONAL HMA LIFTS "FOG COAT"	0.05	GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ 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
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: *R. P. ...*
DISTRICT STUDIES & PLANS ENGINEER

DATE: 4-8-09

EXAMINED BY: *Harbert K. Jung*
DISTRICT CONSTRUCTION ENGINEER

Wayne L. Phillips
DISTRICT MATERIALS ENGINEER

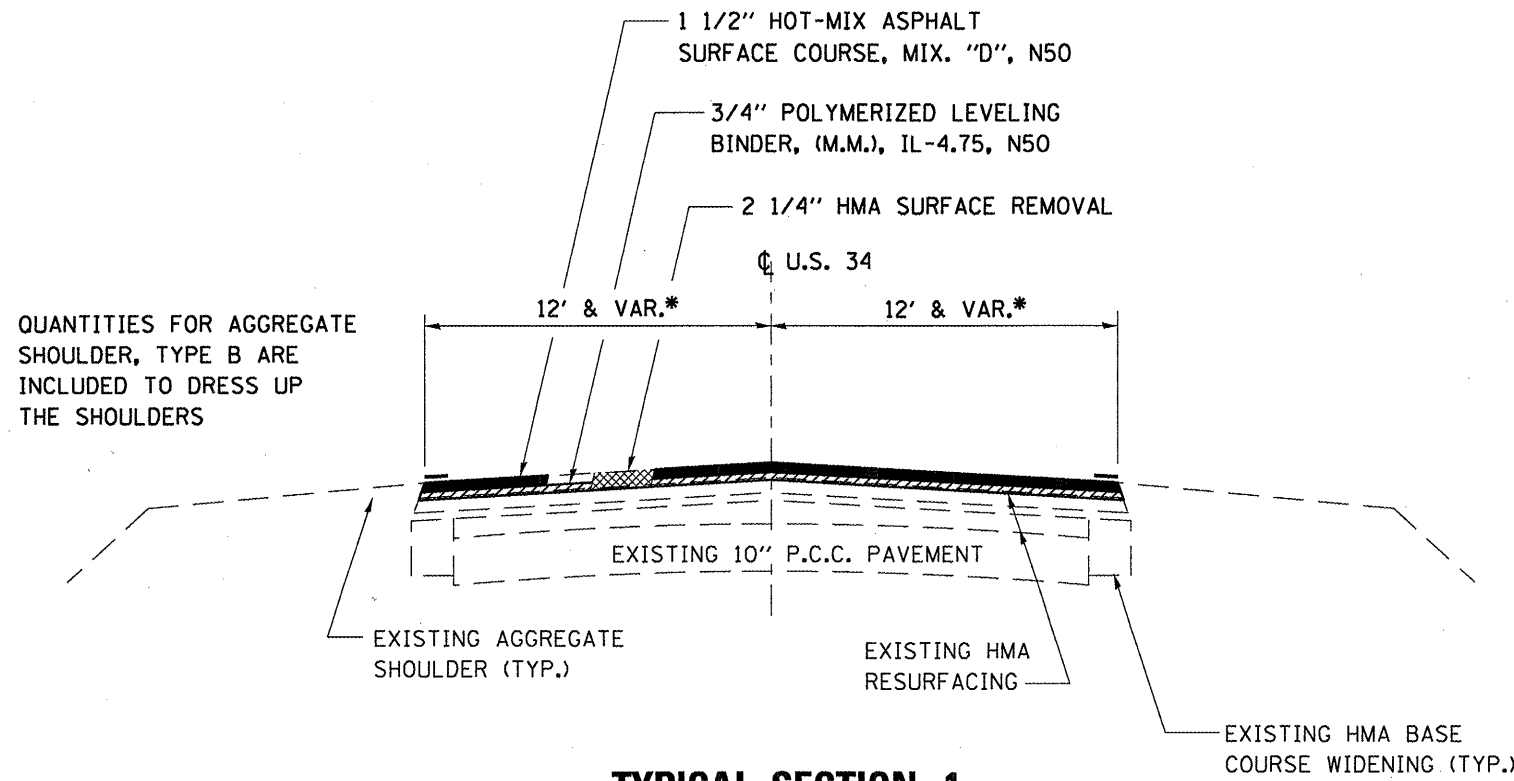
James A. ...
DISTRICT OPERATIONS ENGINEER

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PLOT DATE = Apr 06, 2009 - 02:57:24 PM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									

SUMMARY OF QUANTITIES		URBAN	
CODE NO.	ITEM	CONSTRUCTION CODE: 1000	
		UNIT	TOTAL QUANTITY
20400800	FURNISHED EXCAVATION	CU YD	12
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3259
40600300	AGGREGATE (PRIME COAT)	TON	80
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	6
40600725	POLYMERIZED LEVELING BINDER (HAND METHOD), N50	TON	10
40600895	CONSTRUCTING TEST STRIP	EACH	1
40600990	TEMPORARY RAMP	SQ YD	227
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	79
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1660
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	89
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	769
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	20,297
48101200	AGGREGATE SHOULDERS, TYPE B	TON	625
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2065
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	15,849
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1721
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	689
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	15,849
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1721
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	87
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	87
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	825

* SPECIALTY ITEM

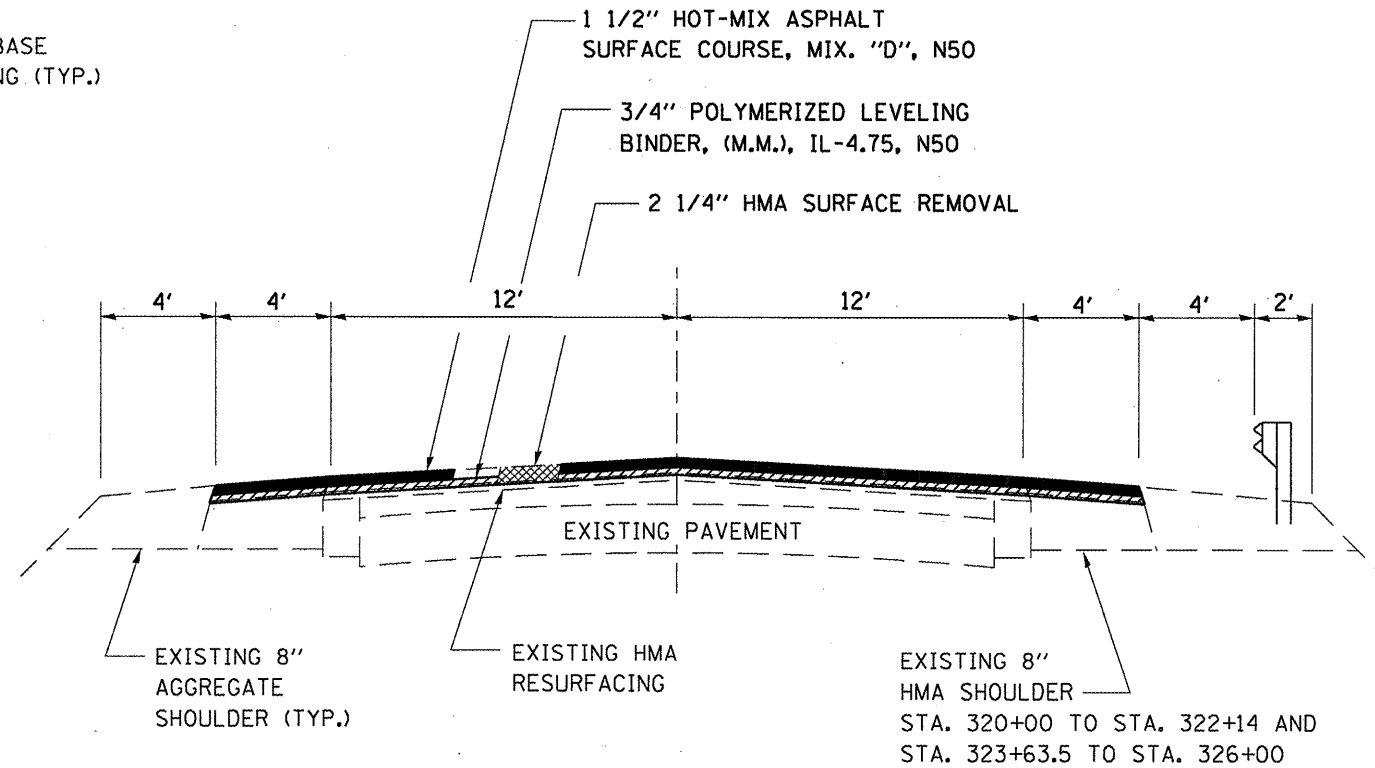
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PLOT SCALE * 1/8"=1'-0"	DATE	CHECKED -	REVISED -			CONTRACT NO. 66973		ILLINOIS FED. AID PROJECT		
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TYPICAL SECTION 1

U.S. 34
 STA. 283+04 TO STA. 320+90
 STA. 325+16 TO STA. 351+86

* VARIES TO 13' WITH 12' LANE



TYPICAL SECTION 2

U.S. 34
 STA. 320+90 TO STA. 322+05
 STA. 323+71 TO STA. 325+16

BRIDGE OMISSION
 STA. 322+05 TO STA. 323+71

MIXTURES TABLE

	HMA Binder (Patches)	HMA Level Binder	HMA Surface
PG Grade	PG64-22	SBS PG70-22	PG64-22
Max % RAP Allowable**	25%	10%	15%
Design Air Voids	4.0% @ N50	4.0% @ N50	4.0% @ N50
Mixture Composition	IL 19.0	IL 4.75	IL 9.5 or IL 12.5
Friction Aggregate			Mixture D
Density Test Method	Cores	Satisfaction of Engineer	Correlation

**When more than 20% RAP is used, a softer asphalt binder (PG58-22) may be required as determined by the Engineer.

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
591	(16R)RS-4	DEKALB	8	4
CONTRACT NO. 66973				
ILLINOIS FED. AID PROJECT				

MAINLINE SCHEDULE												
STA. TO STA.	LENGTH	SURFACE WIDTH	AREA	1 1/2" HOT-MIX ASPHALT SURFACE COURSE MIX"D" N50	3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD) IL-4.75, N50	POLYMERIZED LEVELING BINDER (HAND METHOD) N50	HOT-MIX* ASPHALT SURFACE REMOVAL 2 1/4"	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	TEMP RAMPS	
	FT	FT	SQ YD	TON	TON	TON	SQ YD	TON	GAL	TON	SQ YD	
US 34												
283+04 TO 320+90	3,786	26	10,937.3	918.7	459.4	5.5	10,937.3	3.3	1750.0	43.7	36.1	
320+90 TO 322+05	115	34	434.4	36.5	18.2	0.2	434.4	0.1	69.5	1.7	36.1	
322+05 TO 323+71	BRIDGE OMISSION											
323+71 TO 325+16	145	34	547.8	46.0	23.0	0.3	547.8	0.2	87.6	2.2	36.1	
325+16 TO 351+86	2,670	26	7,713.3	647.9	324.0	3.9	7,713.3	2.3	1234.1	30.9	36.1	
326+00 TO 327+45	145	RTL 2' TO 14'	130.0	10.9				0.1	20.8	0.5		
TOTALS				1,660.1	824.6	9.8	19,632.9	6.0	3,162.1	79.1	144.4	

*THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY DRAINAGE

ENTRANCES AND SIDE ROAD SCHEDULE **									
STATION	ENTRANCE TYPE	SIDE	EXISTING SURFACE	HOT-MIX ASPHALT SURFACE REMOVAL - 1 1/2" SQ YD	INCIDENTAL HOT-MIX ASPHALT SURFACING TON	BITUMINOUS MATERIALS (PRIME COAT) GALLON	AGGREGATE (PRIME COAT) TON	TEMP RAMP SQ YD	FURNISHED EXCAVATION CU YD
FORREST PRESERVE	SR	RT	HMA	189.00	26.5	15.1	0.4	16.7	
FORREST PRESERVE	SR	RT	HMA	154.00	21.6	57.8	0.3	11.1	
RR XING	SR	LT	HMA	30.00	4.2	2.4	0.1	0.0	3.0
VINCENT DRIVE	SR	RT	HMA	190.00	26.6	15.2	0.4	15.5	
RIGHT TURN LANE			HMA	130.00					
AIRPORT 1	CE	RT	HMA	24.00	3.4	1.9	0.0	13.3	3.0
AIRPORT 2	CE	RT	HMA	14.00	2.0	1.1	0.0	13.3	3.0
AIRPORT 3	CE	RT	HMA	38.00	5.3	3.0	0.1	13.3	3.0
TOTALS				769	89	97	1	83	12

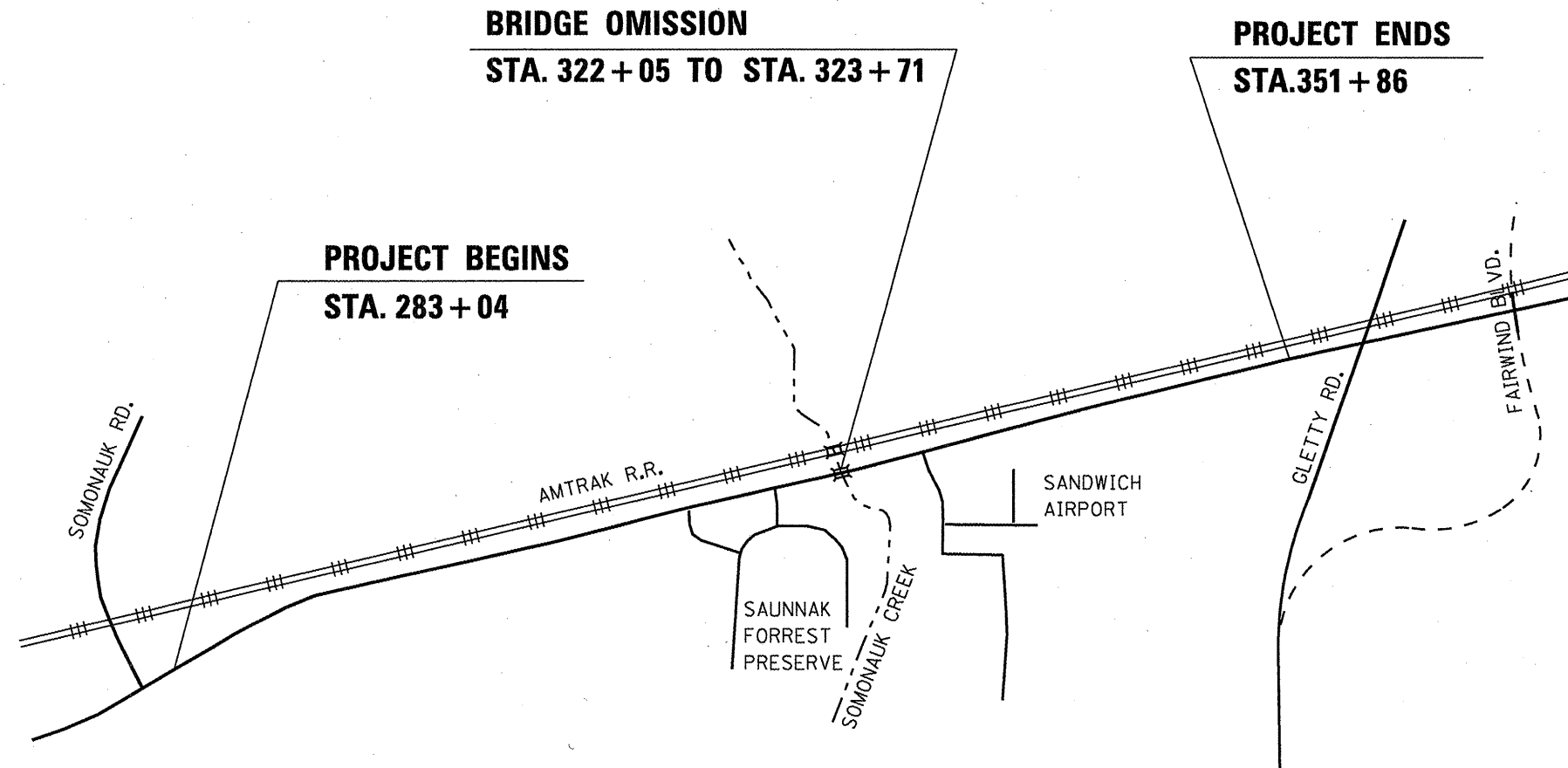
** INCLUDES RTL MILLING

PARTIAL DEPTH PATCHING (NOTE 1)				
LOCATION STATION TO STATION	2 1/4" HOT-MIX ASPHALT BINDER COURSE TONS	HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4" (NOTE 2) SQ YD	BITUMINOUS MATERIALS (PRIME COAT) GAL	AGGREGATE (PRIME COAT) TON
326+00 TO 327+00	39.13	332.2	33.2	1.0
350+86 TO 351+86	39.13	332.2	33.2	1.0
TOTALS	78.26	664.4	66.4	2

NOTE 1 - USE TRAFFIC CONTROL & PROTECTION STD. 701201
ONCE THE CONTRACTOR BEGINS REMOVAL AND REPLACEMENT OPERATIONS, HE SHALL CONTINUE SO THAT ALL MILLED PATCHING AREAS ARE FILLED AT THE END OF EACH WORK DAY.

NOTE 2 - INCLUDES 1:40 TAPERS INTO 2 1/4" SURFACE REMOVAL

THERMOPLASTIC PAVEMENT MARKING						
U.S. 34 STATION LOCATIONS		LIN FT	4" LINE		6" LINE	
			YELLOW FOOT	WHITE FOOT	YELLOW FOOT	
283+04	TO 299+70	1666		3332	416.5	
NO PASSING ZONE - RIGHT SIDE						
299+70	TO 307+45	775	775	1550	193.8	
307+45	TO 309+59	214		428	53.5	
NO PASSING ZONE - LEFT SIDE						
309+59	TO 318+99	940	940	1880	235	
318+99	TO 323+71	472		944	118	
323+71	TO 348+38	2467		4934	616.8	
NO PASSING ZONE - RIGHT SIDE						
348+38	TO 351+86	348	370	696	87	
TOTALS		6882	2085	13,764	1,720.5	

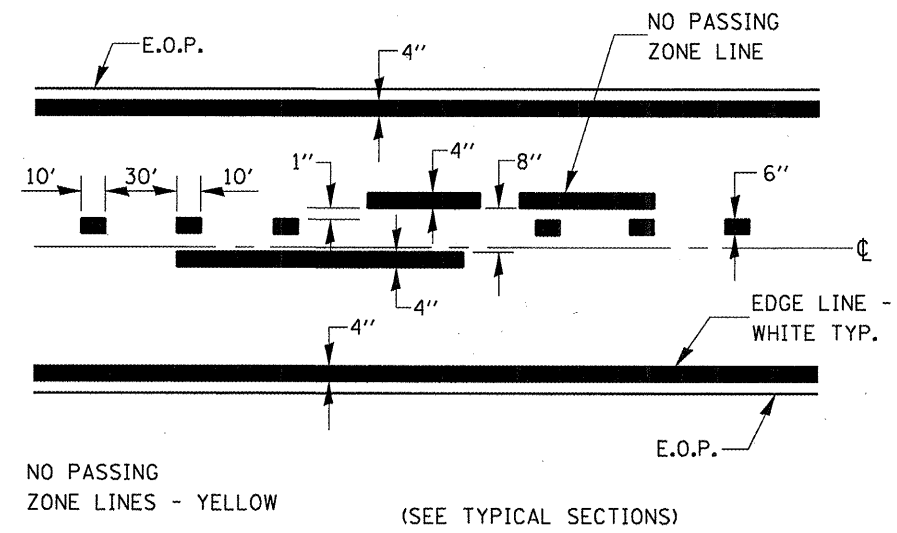


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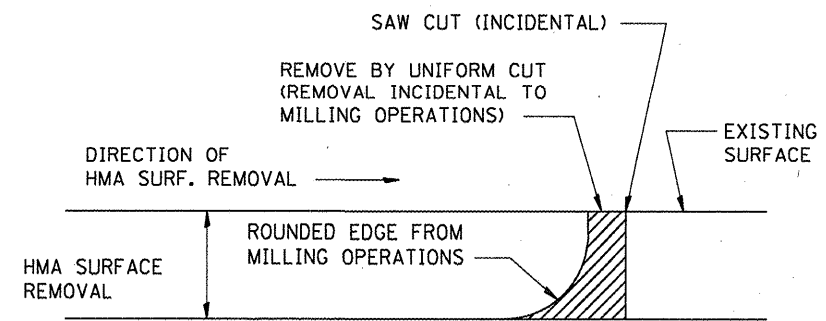
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
591	(16R)RS-4	DEKALB	8	6
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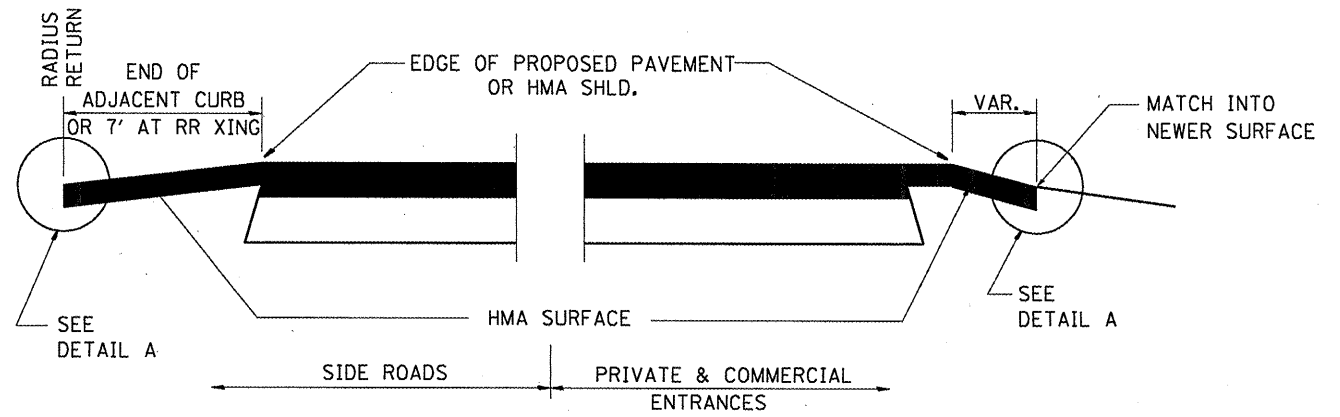
PAVEMENT MARKING



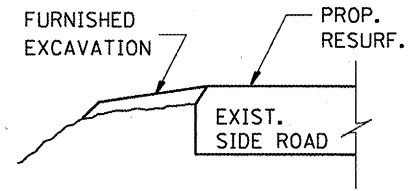
NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

HMA DETAIL AT BUTT JOINTS

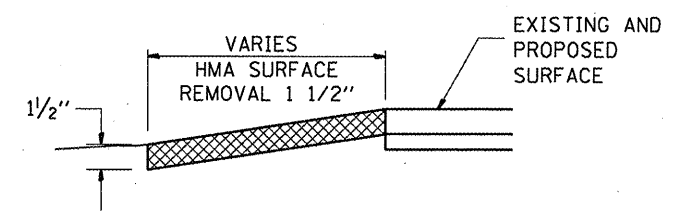
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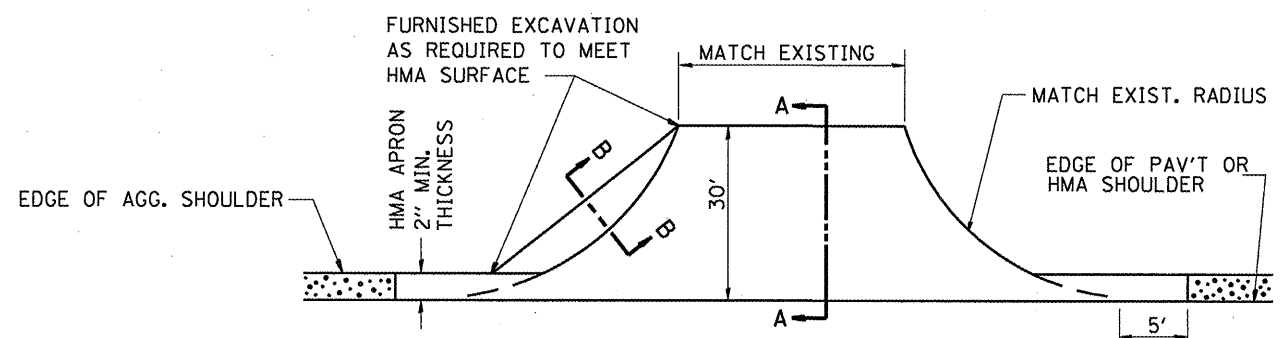
SECTION A-A
 DETAILS AT ENTRANCES & SIDE ROADS



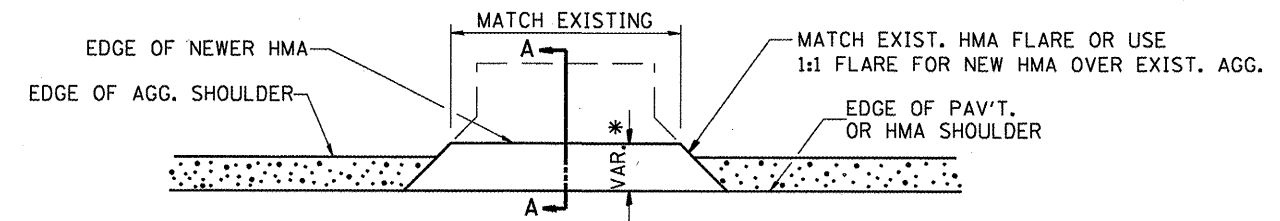
SECTION B-B



DETAIL A



PLAN AT SIDE ROADS



PLAN AT COMMERCIAL ENTRANCES

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAILS			
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