

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(12-1) RS-1	JACKSON	16	1

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

FAP ROUTE 331 (IL 13) – WB LANES  
SECTION (12-1) RS-1  
PROJECT: NHF-331 (38)  
JACKSON COUNTY  
C-99-016-05

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LISTING OF APPLICABLE HIGHWAY STANDARDS GENERAL NOTES, MIXTURE REQUIREMENTS
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**STATION EQUATIONS**

STA 95+79.05 @ BK = STA 96+03.13 @ AH  
 STA 132+96.95 @ BK = STA 133+00.00 @ AH  
 STA 282+60.97 @ BK = STA 281A+93.4 @ AH  
 STA 283A+00 @ BK = STA 283+00 @ AH



**TOWNSHIPS**

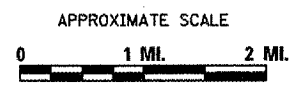
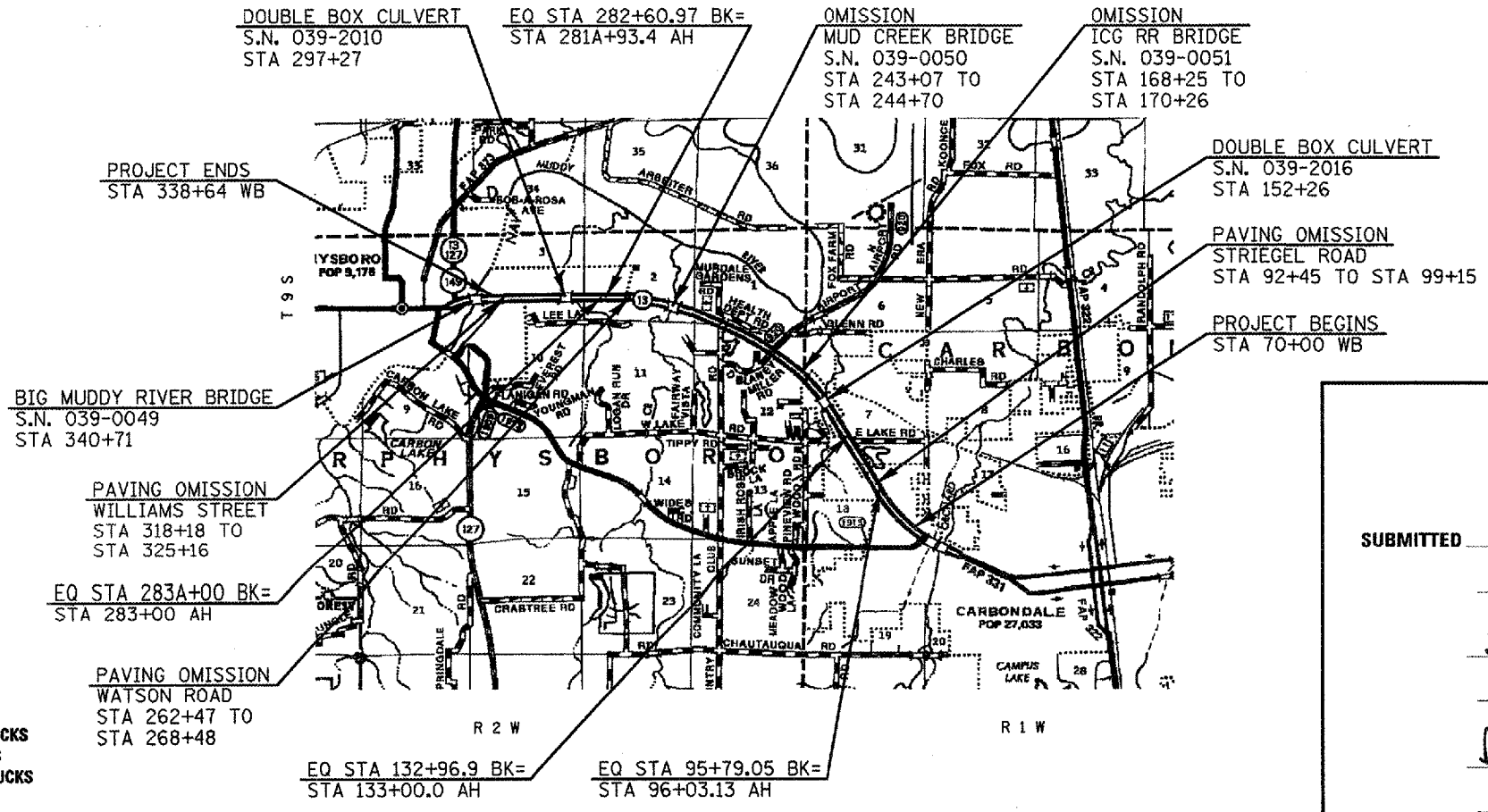
CARBONDALE  
MURPHYSBORO

**TRAFFIC DATA**

IL 13 WESTBOUND LANES ONLY  
 IL 13 WEST OF NEW ERA ROAD: 2006 ADT = 9,019 WITH 6.5% TRUCKS  
 IL 13 WEST OF COUNTRY CLUB ROAD: 2006 ADT = 9,151 WITH 6.7% TRUCKS  
 IL 13 WEST OF NEW ERA ROAD: 2016 ADT = 10,999 WITH 6.5% TRUCKS  
 IL 13 WEST OF COUNTRY CLUB ROAD: 2016 ADT = 11,161 WITH 6.7% TRUCKS

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123 or www.julie1call.com

**CONTRACT NO. 98904**



GROSS LENGTH OF PROJECT = 26,904.4 FT = 5.096 MILES  
 NET LENGTH OF PROJECT = 24,589.5 FT = 4.657 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Oct 11 20 05  
Mary C. Lamin  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9, 2005  
Mike Hene  
 ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 20 05  
Eric Harm  
 DEPUTY DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

PROJECT ENGINEER: CHARLES STEIN  
SQUAD LEADER: TERRI MILLER  
1618) 549-2171  
CENTREX 782-4654

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				

## GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL BITUMINOUS CONCRETE 2.016 TONS/CU. YD.	BITUMINOUS MATERIALS: ON PAVEMENT 0.09 GAL./SQ. YD.
ALL AGGREGATE 2.05 TONS/CU. YD.	INTERMEDIATE LIFTS (FOG COAT) 0.04 GAL./SQ. YD.
RIPRAP 1.50 TONS/CU. YD.	ON AGGREGATE SURFACE 0.32 GAL./SQ. YD.
AGGREGATE (PRIME COAT) 0.0015 TONS/SQ. YD.	

THE THICKNESS OF THE BITUMINOUS MIXTURE 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 ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

THE QUANTITY SHOWN FOR MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS IS AN ESTIMATE. THE ACTUAL AMOUNT USED WILL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL STAMP STATIONING IN THE BITUMINOUS SURFACE AT 300 FOOT INTERVALS ON THE OUTSIDE EDGE OF PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2 IN. TALL OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN AT THE END OF A DAY'S OPERATION THE EXPOSED CENTERLINE EDGE IS GREATER THAN 2000 FEET, THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE ADJACENT LANE ON THE FOLLOWING WORK DAY. PRIOR TO WINTER SHUTDOWN, RESURFACING ON ADJACENT LANES IS TO BE BROUGHT UP TO THE SAME ELEVATION.

SAW CUTS REQUIRED FOR BUTT JOINTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE BUTT JOINT.

PAVEMENT MARKING REMOVAL, SHOWN IN THE PLANS, SHALL BE USED TO REMOVE EXISTING CENTERLINE AND EDGELINE MARKINGS ON THE BRIDGES WITHIN THE PROJECT LIMITS PRIOR TO THE APPLICATION OF THE THERMOPLASTIC PAVEMENT MARKINGS. IN ADDITION, IT SHALL BE USED TO REMOVE THE EXISTING PAVEMENT MARKINGS AT THE SIGNALIZED INTERSECTIONS PRIOR TO THE APPLICATION OF THE POLYUREA PAVEMENT MARKINGS.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION FOR THE BINDER COURSE AND ONE APPLICATION FOR THE SURFACE COURSE AT THE RATE OF 4 FEET IN 40 FEET AND 4 FEET EVERY 100 FEET. THE QUANTITY IS FOR LANE LINE MARKING AND EDGE OF PAVEMENT MARKING.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 107.16 REGARDLESS IF TRACK MOUNTED OR WHEELED.

EXISTING PIPE UNDERDRAIN OUTLETS IN THE FORESLOPES OR MEDIAN SLOPES SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO AN UNDERDRAIN OUTLET RESULTING FROM CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PRIOR TO RESURFACING OPERATIONS, ANY VEGETATION PRESENT ON THE EXISTING BITUMINOUS SHOULDERS SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF BITUMINOUS SHOULDERS SUPERPAVE.

THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT-OF-WAY WITHIN THE PROJECT LIMITS.

THE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS IN THE AREAS THAT WILL NOT BE OVERLAID SHALL NOT BE DISTURBED. ANY DAMAGE TO A RAISED REFLECTIVE PAVEMENT MARKER RESULTING FROM CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

## MIXTURE REQUIREMENTS

LOCATION(S):	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE
MIXTURE USE(S):	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N105
AC/PG:	SBS PG76-22
RAP % (MAX):	0
DESIGN AIR VOIDS:	4.0 %, 105 GYRATION SUPERPAVE DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 MM OR IL-12.5 MM
FRICTION AGGREGATE:	D SURFACE

LOCATION(S):	POLYMERIZED LEVELING BINDER (MACHINE METHOD) & INCIDENTAL BITUMINOUS SURFACING
MIXTURE USE(S):	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N105
AC/PG:	SBS PG76-22
RAP % (MAX):	0
DESIGN AIR VOIDS:	4.0 %, 105 GYRATION SUPERPAVE DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 MM OR IL-12.5 MM
FRICTION AGGREGATE:	NONE

LOCATION(S):	BITUMINOUS SHOULDERS
MIXTURE USE(S):	BITUMINOUS SHOULDERS, SUPERPAVE
AC/PG:	PG58-22
RAP % (MAX):	50
DESIGN AIR VOIDS:	2.0 %, 30 GYRATION SUPERPAVE DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	BITUMINOUS AGGREGATE MIXTURE, SUPERPAVE
FRICTION AGGREGATE:	NONE

LOCATION(S):	BITUMINOUS MATERIALS (PRIME COAT)
MIXTURE USE(S):	POLYMER MODIFIED EMULSIFIED ASPHALT
REQUIREMENTS:	SS-1HP OR CSS-1HP

## COMMITMENTS

NONE

## STRUCTURES WITHIN PROJECT LIMITS

STRUCTURE NO.	OPERATING RATING	INVENTORY RATING	POSTING	MTD APPROVAL
039 - 0049	51.6	30.9	NONE	LOADED
039 - 0050	36.7	20.6	NONE	LOADED
039 - 0051	38.3	21.7	NONE	LOADED
039 - 2010	27.2	20	NONE	LOADED
039 - 2016	27.2	20	NONE	LOADED

## STANDARDS

000001-04	701421-01
	701422-01
421001-01	701426-02
442001-02	702001-05
701101-01	780001-01
	781001-02

Prepared By: *Joe Z. [Signature]*  
DISTRICT STUDIES & PLANS ENGINEER

Examined By: *James [Signature]*  
DISTRICT LAND ACQUISITION ENGINEER

Examined By: *Carrie [Signature]*  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *John [Signature]*  
DISTRICT OPERATIONS ENGINEER

Examined By: *Joseph [Signature]*  
DISTRICT CONSTRUCTION ENGINEER

Examined By: *Bruce [Signature]*  
DISTRICT MATERIALS ENGINEER

Examined By: *Nancy [Signature]*  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: *Nancy [Signature]*  
ASSISTANT REGIONAL ENGINEER

Approved By: *Nancy [Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DATE: Oct. 11 2005

PLOT DATE = 10/6/2005  
 FILE NAME = c:\projects\0901005\d901005.ms.m32  
 PLOT SCALE = 108.4337' / IN.  
 USER NAME = thomashf

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	3
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				

## SUMMARY OF QUANTITIES

			80% FEDERAL / 20% STATE JACKSON COUNTY		
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	
				I 000	
				I 000	
* X0300780	PIEZO ELECTRIC AXLE SENSOR CABLE IN CONDUIT	FOOT	295	295	
X0322729	MATERIAL TRANSFER DEVICE	TON	9244	9244	
* X0323014	ELECTRIC CABLE IN CONDUIT, CONOGA-30003	FOOT	540	540	
* X0323015	PIEZO ELECTRIC AXLE SENSOR, CLASS II	FOOT	14	14	
X4066530	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N105	TON	5806	5806	
X4066920	POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE N105	TON	3933	3933	
<del>X7015000</del>	CHANGEABLE MESSAGE SIGN	CAL MO	4	4	
Z0075310	TIE BARS 3/4"	EACH	597	597	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	10446	10446	
40600300	AGGREGATE (PRIME COAT)	TON	175	175	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	10	10	
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	1272	1272	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL-BUTT JOINT	SQ YD	1292	1292	
40600990	TEMPORARY RAMP	SQ YD	395	395	
40800040	INCIDENTAL BITUMINOUS SURFACING	TON	324	324	
44200525	CLASS A PATCHES, TYPE I, 8 INCH	SQ YD	128	128	
44200529	CLASS A PATCHES, TYPE II, 8 INCH	SQ YD	342	342	
44200533	CLASS A PATCHES, TYPE III, 8 INCH	SQ YD	157	157	
44200535	CLASS A PATCHES, TYPE IV, 8 INCH	SQ YD	795	795	
44212900	PAVEMENT PATCHING (PARTIAL DEPTH)	SQ YD	663	663	
44213000	PATCHING REINFORCEMENT	SQ YD	1423	1423	
44213200	SAW CUTS	FOOT	6366	6366	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	940	940	
48202000	BITUMINOUS SHOULDERS SUPERPAVE	TON	4898	4898	

\* SPECIALTY ITEM

PLOT DATE = 10/4/2005  
 FILE NAME = c:\projects\98904\98904.dwg\98904.sch.m32  
 PLOT SCALE = 100.4337 / IN.  
 USER NAME = thomashf

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	4
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

## SUMMARY OF QUANTITIES

CONTRACT NO. 98904

		80% FEDERAL / 20% STATE JACKSON COUNTY		
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY
		CONSTRUCTION TYPE CODE		
		I 000		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	8407	8407
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	219	219
70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	56671	56671
70300280	TEMPORARY PAVEMENT MARKING-LINE 24"	FOOT	55	55
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	20620	20620
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	219	219
* 78000200	THERMOPLASTIC PAVEMENT MARKING- LINE 4"	FOOT	51289	51289
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	55	55
78003110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	FOOT	6200	6200
* <del>7800500</del>	POLYUREA PAVEMENT MARKING-LETTERS AND SYMBOLS <i>SPECIAL</i>	SQ FT	182	182
* <del>7800510</del>	POLYUREA PAVEMENT MARKING-LINE 4" <i>SPECIAL</i>	FOOT	6353	6353
* <del>7800550</del>	POLYUREA PAVEMENT MARKING-LINE 12" <i>SPECIAL</i>	FOOT	366	366
* <del>7800580</del>	POLYUREA PAVEMENT MARKING-LINE 24" <i>SPECIAL</i>	FOOT	232	232
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	342	342
78300100	PAVEMENT MARKING REMOVAL	SQ FT	3410	3410
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	342	342
* 81000400	CONDUIT IN TRENCH, 1 1/4" DIA., GALVANIZED STEEL	FOOT	70	70
* 81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	48	48
* 81400200	HEAVY-DUTY HANDHOLE	EACH	1	1
* 81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	80	80
* 88600100	DETECTOR LOOP, TYPE I	FOOT	148	148

\* SPECIALTY ITEM

PLOT DATE = 10/4/2005  
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 USER NAME = thomasht

*Rev.*

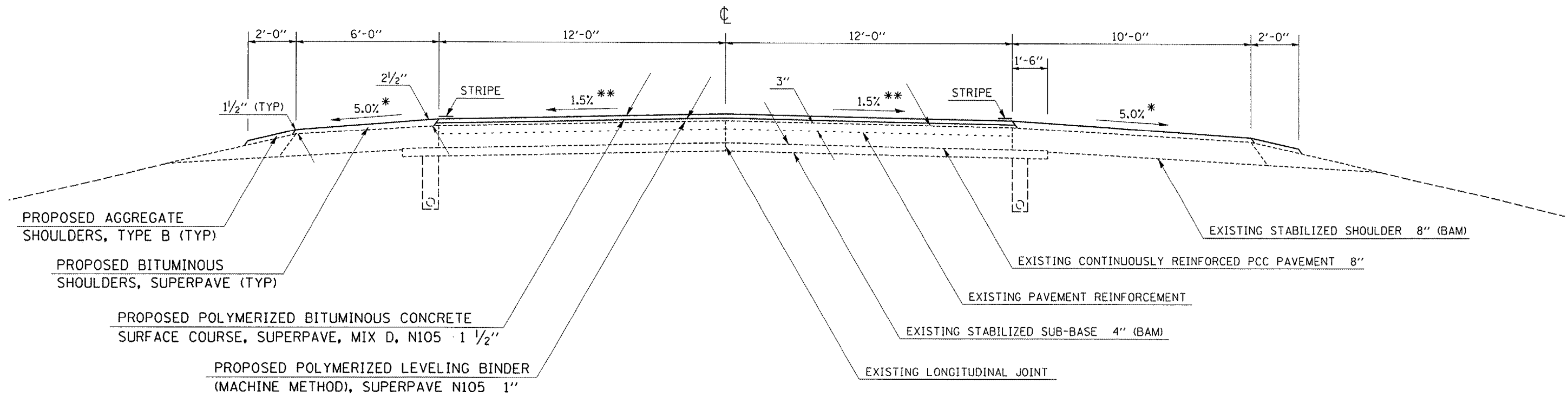
SHEET 2 OF 2

**SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	5
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98904				

## TYPICAL SECTION 1

FAP 331 (IL 13)  
JACKSON COUNTY  
WB LANES ONLY



TO BE USED:  
STA 70+00 TO STA 338+64

STA EQ: STA 95+79.05 (BK) = STA 96+03.13 (AH)  
STA EQ: STA 132+96.95 (BK) = STA 133+00.00 (AH)  
STA EQ: STA 282+60.97 (BK) = STA 281A+93.40 (AH)  
STA EQ: STA 283A+00.00 (BK) = STA 283+00.00 (AH)

**OMISSIONS:**

STA 92+45 TO STA 99+15  
STA 168+25 TO STA 170+26  
STA 243+07 TO STA 244+70  
STA 262+47 TO STA 268+48  
STA 318+18 TO STA 325+16

\* THE PROPOSED 5.0% MAXIMUM SHOULDER SLOPE IS APPROXIMATE. THE SLOPE SHALL BE ACCOMPLISHED BY TAPERING THE SHOULDER MIX FROM 2 1/2" AT THE EDGE OF PAVEMENT TO 1 1/2" MINIMUM AT THE EDGE OF SHOULDER.

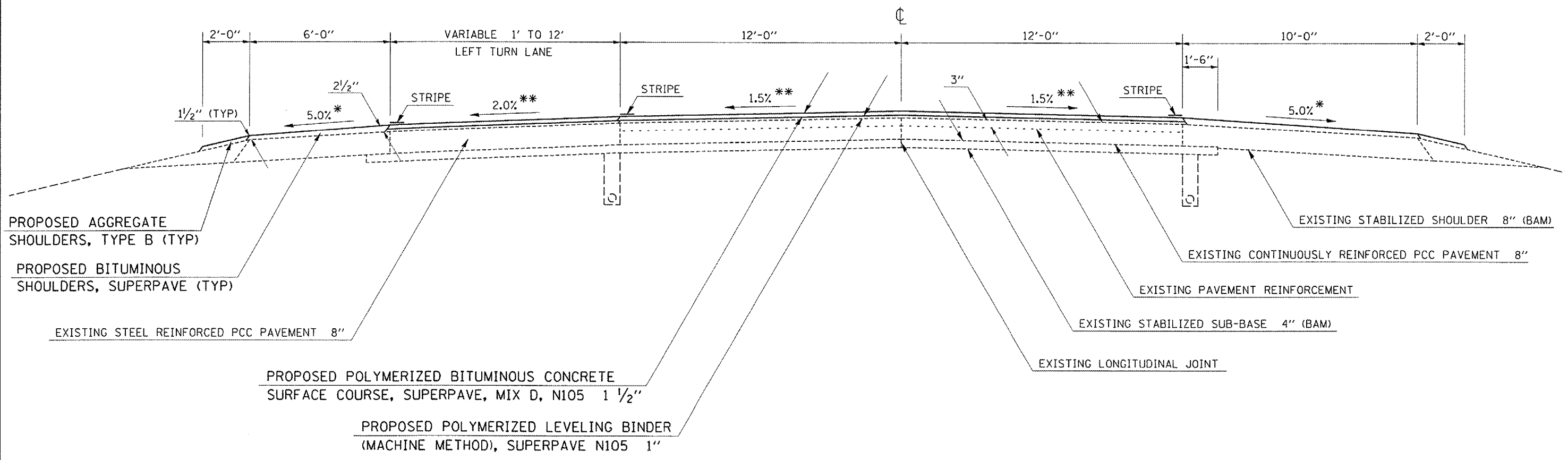
\*\* MATCH EXISTING CROSS SLOPE

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 USER NAME = thomeshf

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98904				

## TYPICAL SECTION 2

FAP 331 (IL 13)  
JACKSON COUNTY  
WB LANES ONLY



\* THE PROPOSED 5.0% MAXIMUM SHOULDER SLOPE IS APPROXIMATE. THE SLOPE SHALL BE ACCOMPLISHED BY TAPERING THE SHOULDER MIX FROM 2 1/2" AT THE EDGE OF PAVEMENT TO 1 1/2" MINIMUM AT THE EDGE OF SHOULDER.

\*\* MATCH EXISTING CROSS SLOPE

TO BE USED:  
 STA 123+08 TO STA 128+08  
 STA 154+90 TO STA 159+90  
 STA 182+88 TO STA 187+88  
 STA 210+95 TO STA 215+95  
 STA 302+60 TO STA 307+60  
 STA 329+07 TO STA 333+32

PLOT DATE = 10/3/2005  
 FILE NAME = c:\projects\4901005\4901005typ.m32  
 PLOT SCALE = 108.4337' / IN.  
 USER NAME = thomashf

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	7
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				

## RESURFACING AND SHOULDER SCHEDULE

LOCATION STATION TO STATION	LENGTH (FOR INFORMATION ONLY) FEET	POLYMERIZED LEVELING BINDER MACHINE METHOD TONS	POLYMERIZED BIT CONCRETE SURFACE COURSE TONS	PRIME COAT		BITUMINOUS SHOULDERS SUPERPAVE TONS	AGGREGATE SHOULDERS TYPE B TONS	PCC SURFACE REMOVAL BUTT JOINT SQ YD	BIT SURFACE REMOVAL BUTT JOINT SQ YD	TEMPORARY RAMP SQ YD
				BITUMINOUS MATERIALS GAL	AGGREGATE TONS					
<b>WESTBOUND</b>										
70+00 TO 70+50	50.0	7.5	11.3	20	0.4	10.0	1.9	80.0	53.3	13.3
70+50 TO 91+95	2145.0	321.4	484.7	858	14.3	427.1	81.4			
91+95 TO 92+45	50.0	7.5	11.3	20	0.4	10.0	1.9	80.0	53.3	13.3
<b>STRIEGEL ROAD</b>										
99+15 TO 99+65	50.0	7.5	11.3	20	0.4	10.0	1.9	80.0	53.3	13.3
99+65 TO 132+97	3331.9	499.3	752.8	1333	22.3	663.4	126.5			
133+00 TO 167+75	3475.0	520.7	785.2	1390	23.2	691.9	131.9			
167+75 TO 168+25	50.0	7.5	11.3	20	0.4	10.0	1.9		133.3	13.3
<b>SN 039-0051</b>										
170+26 TO 170+76	50.0	7.5	11.3	20	0.4	10.0	1.9		133.3	13.3
170+76 TO 242+57	7181.0	1076.1	1622.5	2872	47.9	1429.8	272.6			
242+57 TO 243+07	50.0	7.5	11.3	20	0.4	10.0	1.9		133.3	13.3
<b>SN 039-0050</b>										
244+70 TO 245+20	50.0	7.5	11.3	20	0.4	10.0	1.9		133.3	13.3
245+20 TO 261+97	1677.0	251.3	378.9	671	11.2	333.9	63.7			
261+97 TO 262+47	50.0	7.5	11.3	20	0.4	10.0	1.9	80.0	53.3	13.3
<b>WATSON ROAD</b>										
268+48 TO 268+98	50.0	7.5	11.3	20	0.4	10.0	1.9	80.0	53.3	13.3
268+98 TO 282+61	1363.0	204.2	308.0	545	9.1	271.4	51.7			
281A+93 TO 283A+00	106.6	16.0	24.1	43	0.8	21.2	4.0			
283+00 TO 317+68	3468.0	519.7	783.6	1387	23.2	690.5	131.7			
317+68 TO 318+18	50.0	7.5	11.3	20	0.4	10.0	1.9	80.0	53.3	13.3
<b>WILLIAMS STREET</b>										
325+16 TO 325+66	50.0	7.5	11.3	20	0.4	10.0	1.9	80.0	53.3	13.3
325+66 TO 338+14	1248.0	187.0	282.0	499	8.4	248.5	47.4			
338+14 TO 338+64	50.0	7.5	11.3	20	0.4	10.0	1.9		133.3	13.3
<b>TOTALS</b>		<b>3686</b>	<b>5557.5</b>	<b>9838</b>	<b>165</b>	<b>4898</b>	<b>934</b>	<b>560</b>	<b>1040</b>	<b>160</b>

PLOT DATE = 10/4/2005  
 FILE NAME = c:\projects\d901005\d901005.sch.m32  
 PLOT SCALE = 108.4337 / IN.  
 USER NAME = thomeahf



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	8
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				

## SIDE ROAD SCHEDULE

LOCATION STATION	SIDE ROAD	DESCRIPTION	LENGTH	WIDTH	SURFACE AREA	PCC SURFACE REMOVAL BUTT JOINT	BIT SURFACE REMOVAL BUTT JOINT	TEMPORARY RAMP	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	POLYMERIZED LEVELING BINDER MACHINE METHOD	POLYMERIZED BIT CONCRETE SURFACE COURSE	INCIDENTAL BITUMINOUS SURFACING	AGGREGATE SHOULDERS TYPE A
			FEET	FEET	SO FT	SO YD	SO YD	SO YD	GAL	TON	TON	TON	TON	TON
<b>WESTBOUND</b>														
STA 110+18 LT	CROSSOVER				1450.0		58.0	20.0	14.5	0.24			18.5	
STA 123+08 TO STA 125+78 LT	LAKE ROAD	LEFT TURN TRANSITION	270.0	6.5	1755.0				17.6	0.29	10.9	16.38		
STA 125+78 TO STA 128+08 LT	LAKE ROAD	LEFT TURN LANE	230.0	12.0	2760.0				27.6	0.46	17.2	25.76		
STA 128+08 TO STA 129+13 LT	LAKE ROAD	SIDE ROAD LT			2304.0	84.4		18.3	23.0	0.38	7.0		21.5	
STA 127+84 TO STA 129+02 RT	LAKE ROAD	SIDE ROAD RT			2870.0	38.8		6.7	28.7	0.48	7.2		26.8	
STA 154+90 TO STA 157+60 LT	WOOD ROAD	LEFT TURN TRANSITION	270.0	6.5	1755.0				17.6	0.29	10.9	16.38		
STA 157+60 TO STA 159+90 LT	WOOD ROAD	LEFT TURN LANE	230.0	12.0	2760.0				27.6	0.46	17.2	25.76		
STA 159+90 TO STA 161+09 LT	WOOD ROAD	SIDE ROAD LT			2452.0	68.2		16.7	24.5	0.41	7.7		22.9	
STA 182+88 TO STA 185+58 LT	AIRPORT ROAD	LEFT TURN TRANSITION	270.0	6.8	1836.0				18.4	0.31	11.4	17.14		
STA 185+58 TO STA 187+88 LT	AIRPORT ROAD	LEFT TURN LANE	230.0	12.5	2875.0				28.8	0.48	17.9	26.83		
STA 187+88 TO STA 188+99 LT	AIRPORT ROAD	SIDE ROAD LT			2389.0	74.4		20.0	23.9	0.40	6.9		22.3	
STA 187+93 TO STA 189+18 RT	AIRPORT ROAD	SIDE ROAD RT			2921.0	40.7		8.0	29.2	0.49	7.7		27.3	
STA 210+95 TO STA 213+65 LT	COUNTRY CLUB RD	LEFT TURN TRANSITION	270.0	6.5	1755.0				17.6	0.29	10.9	16.38		
STA 213+65 TO STA 215+95 LT	COUNTRY CLUB RD	LEFT TURN LANE	230.0	12.0	2760.0				27.6	0.46	17.2	25.76		
STA 215+95 TO STA 217+04 LT	COUNTRY CLUB RD	SIDE ROAD LT			2293.0	97.0		18.3	22.9	0.38	7.1		21.4	
STA 215+99 TO STA 217+11 RT	MURDALE GARDENS	SIDE ROAD RT			2445.0	41.2		8.0	24.5	0.41	6.8		22.8	
STA 233+00 LT	CROSSOVER				1450.0		58.0	20.0	14.5	0.24			13.5	
STA 233+00 RT	PRIVATE ENTRANCE													2.0
STA 255+18 LT	CROSSOVER				1450.0		58.0	20.0	14.5	0.24			13.5	
STA 255+18 RT	FIELD ENTRANCE													2.0
STA 282A+38 LT	CROSSOVER				1450.0		58.0	20.0	14.5	0.24			13.5	
STA 282A+38 RT	FIELD ENTRANCE													2.0
STA 302+60 TO STA 305+30 LT	SIZEMORE DRIVE	LEFT TURN TRANSITION	270.0	6.5	1755.0				17.6	0.29	10.9	16.38		
STA 305+30 TO STA 307+60 LT	SIZEMORE DRIVE	LEFT TURN LANE	230.0	12.0	2760.0				27.6	0.46	17.2	25.76		
STA 307+60 TO STA 308+94 LT	SIZEMORE DRIVE	SIDE ROAD LT			3192.0	105.1		23.3	31.9	0.53	9.0		29.8	
STA 307+12 TO STA 308+41 RT	SIZEMORE DRIVE	SIDE ROAD RT			3141.0	37.3		8.0	31.4	0.52	7.4		29.3	
STA 329+07 TO STA 331+37 LT	CROSS ROAD	LEFT TURN TRANSITION	230.0	6.5	1495.0				15.0	0.25	9.3	13.95		
STA 331+37 TO STA 333+32 LT	CROSS ROAD	LEFT TURN LANE	195.0	12.0	2340.0				23.4	0.39	14.6	21.84		
STA 333+32 TO STA 334+41 LT	CROSS ROAD	SIDE ROAD LT			2282.0	97.3		18.3	22.8	0.38	7.1		21.3	
STA 333+36 TO STA 334+48 RT	CROSS ROAD	SIDE ROAD RT			2082.0	47.7		8.7	20.8	0.35	6.8		19.4	
<b>TOTALS</b>						<b>732</b>	<b>232</b>	<b>235</b>	<b>608</b>	<b>10</b>	<b>247</b>	<b>248.5</b>	<b>324</b>	<b>6.0</b>

NOTES: AN ADDITIONAL QUANTITY OF 5 TONS OF INCIDENTAL BITUMINOUS SURFACING HAS BEEN INCLUDED TO COVER A HEAVING PIPE CULVERT IN THE MEDIAN CROSSOVER AT STATION 110+18 LT. THIS WORK WILL BE PERFORMED AS DIRECTED BY THE ENGINEER.  
 THE AGGREGATE SHOULDERS, TYPE A INCLUDED AT THE PRIVATE AND FIELD ENTRANCES IS IN ADDITION TO THE MAINLINE SHOULDER QUANTITY.

PLOT DATE = 10/4/2005  
 FILE NAME = c:\projects\d901005\d901005sch.m32  
 PLOT SCALE = 108.4337 ' / IN.  
 USER NAME = thomaslf



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	9
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				

## PAVEMENT MARKING SCHEDULE

LOCATION STATION TO STATION	DESCRIPTION	PREFORMED LINE 4" SKIP DASH WHITE FOOT	THERMOPLASTIC PAVEMENT MARKING					POLYUREA PAVEMENT MARKING SPECIAL					SHORT TERM PAVEMENT MARKING		RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH	RAISED REFLECTIVE PAVEMENT MARKERS EACH	WORK ZONE PAVEMENT MARKING REMOVAL SQ FT	PAVEMENT MARKING REMOVAL SQ FT	
			LINE 4"			LETTERS AND SYMBOLS SQ FT	LINE 4"			LETTERS AND SYMBOLS SQ FT	SKIP DASH WHITE FOOT	EDGE LINE FOOT							
			SOLID WHITE FOOT	SOLID YELLOW FOOT	SKIP DASH WHITE FOOT		SOLID WHITE FOOT	SOLID YELLOW FOOT	SKIP DASH WHITE FOOT										
<b>WESTBOUND</b>																			
70+00 TO 92+45		561	2245	2245										408	359	28	28	1812	
92+45 TO 99+15	STRIEGEL ROAD							1106	601	131	92	82	73						944
99+15 TO 125+80		666	2665	2665										485	426	33	33	2151	
125+80 TO 128+85	LAKE ROAD	95	614	259		18	37							55	49	10	10	413	
128+85 TO 132+97		103	412	412										75	66	5	5	332	
132+97 TO 133+00	STATION EQ																		
133+00 TO 157+65		616	2465	2465										448	394	31	31	1989	
157+65 TO 161+09	WOOD ROAD	86	603	380			37							63	55	10	10	412	
161+09 TO 168+25		179	716	716										130	115	9	9	578	
168+25 TO 170+26	SN 039-0051		201	201	50														151
170+26 TO 185+80		389	1554	1554										283	249	19	19	1254	
185+80 TO 189+18	AIRPORT ROAD	102	601	291		17	37							61	54	11	11	421	
189+18 TO 214+00		621	2482	2482										451	397	31	31	2003	
214+00 TO 217+12	COUNTRY CLUB	93	548	260		20	37							57	50	8	8	395	
217+12 TO 243+07		649	2595	2595										472	415	32	32	2094	
243+07 TO 244+70	SN 039-0050		163	163	41														122
244+70 TO 262+47		444	1777	1777															
262+47 TO 268+48	WATSON ROAD							956	636	131	76	84	37	323	284	22	22	1434	858
268+48 TO 282+61		353	1413	1413										257	226	18	18	1140	
282+61 TO 281A+93.4	STATION EQ																		
281A+93.4 TO 283A+00		27	107	107										19	17	1	1	86	
283A+00 TO 283+00	STATION EQ																		
283+00 TO 305+50		563	2250	2250										409	360	28	28	1816	
305+50 TO 308+60	SIZEMORE DRIVE	78	556	246			37							56	50	10	10	347	
308+60 TO 318+18		240	958	958										174	153	12	12	773	
318+18 TO 325+16	WILLIAMS STREET							1673	942	177	198	66	73						1335
325+16 TO 331+50		159	634	634										115	101	8	8	512	
331+50 TO 334+49	CROSS ROAD	75	490	247			37							54	48	10	10	324	
334+49 TO 338+64		104	415	415										75	66	5	5	335	
<b>TOTALS</b>		<b>6200</b>	<b>26464</b>	<b>24735</b>	<b>91</b>	<b>55</b>	<b>219</b>	<b>3735</b>	<b>2179</b>	<b>439</b>	<b>366</b>	<b>232</b>	<b>182</b>	<b>4472</b>	<b>3935</b>	<b>342</b>	<b>342</b>	<b>20620</b>	<b>3410</b>
				<b>51289</b>					<b>6353</b>						<b>8407</b>				

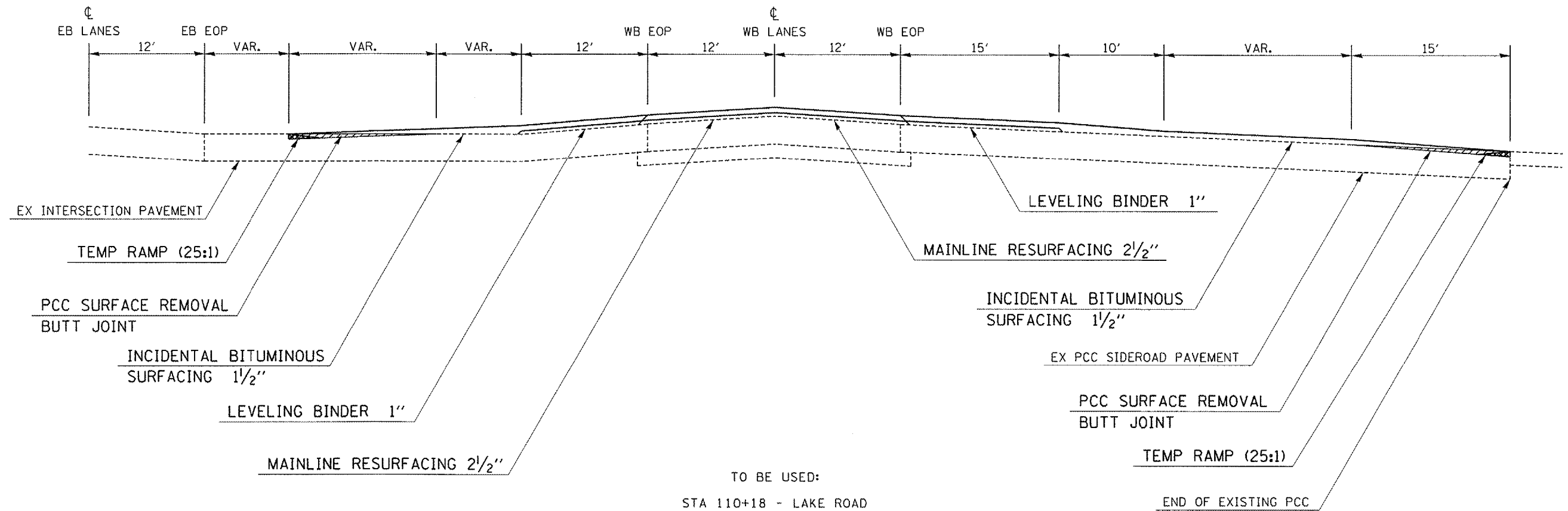
NOTES: TEMPORARY PAVEMENT MARKING QUANTITIES ARE CALCULATED FROM THE PERMANENT PAVEMENT MARKING QUANTITIES  
TEMPORARY PAVEMENT MARKING IS CALCULATED ONLY FOR THOSE AREAS TO BE SURFACED  
SHORT TERM PAVEMENT MARKING QUANTITIES ARE CALCULATED FOR TWO APPLICATIONS FOR BOTH THE PAVEMENT AND SHOULDERS  
THE STRIEGEL ROAD SECTION CONTAINS A STATION EQUATION (STA 95+79.05 BK = STA 96+03.13 AH). THE QUANTITIES HAVE BEEN ADJUSTED ACCORDINGLY  
EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL NOT BE DISTURBED IN THE AREAS THAT WILL NOT BE SURFACED

PLOT DATE = 10/4/2005  
FILE NAME = c:\projects\0901005\d901005sch.m32  
PLOT SCALE = 108.4337 / IN.  
USER NAME = thomashf

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				

## DETAIL OF INTERSECTION RESURFACING

FAP 331 (IL 13)  
WESTBOUND LANES



TO BE USED:  
 STA 110+18 - LAKE ROAD  
 STA 160+50 - WOOD ROAD  
 STA 188+54 - AIRPORT ROAD  
 STA 216+55 - COUNTRY CLUB ROAD  
 STA 308+10 - SIZEMORE DRIVE  
 STA 333+92 - CROSSROAD

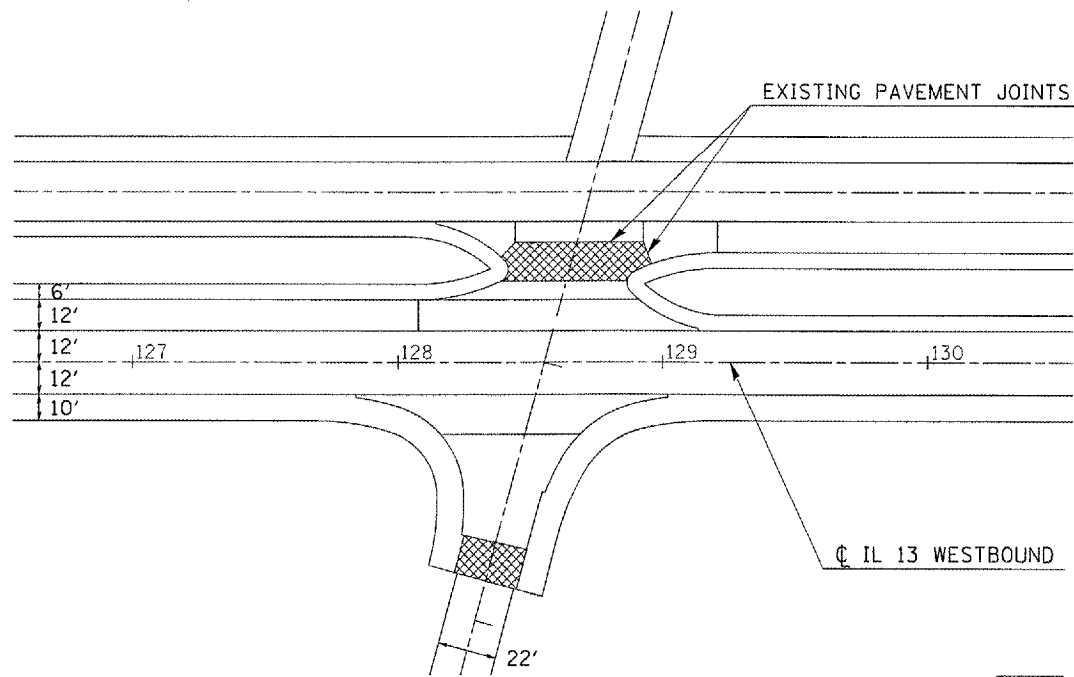
SEE INDIVIDUAL DETAILS FOR ADDITIONAL INFORMATION

PLOT DATE = 10/3/2005  
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 PLOT SCALE = 108.4337' / IN.  
 USER NAME = thomashf

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				

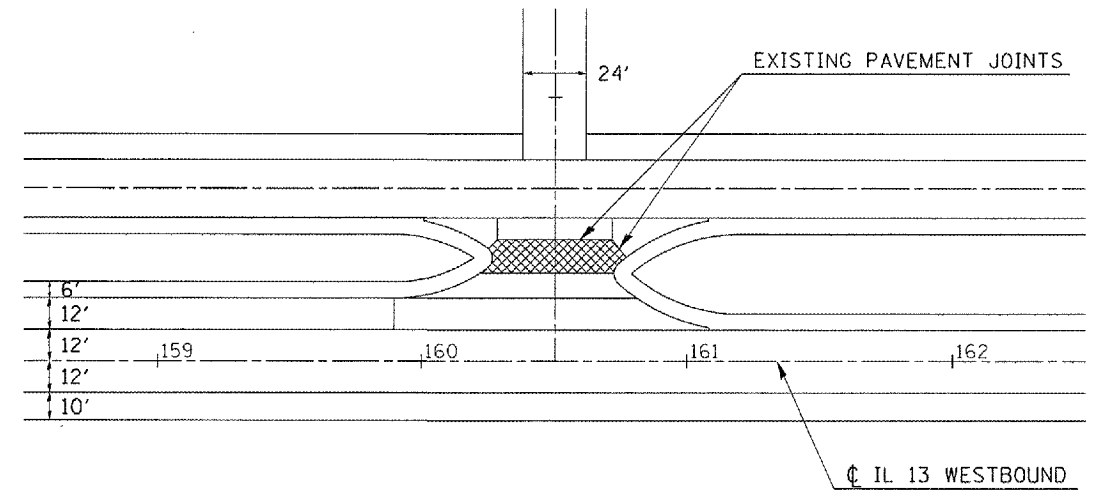
### DETAIL OF INTERSECTION RESURFACING

STA 128+55  
LAKE ROAD



### DETAIL OF INTERSECTION RESURFACING

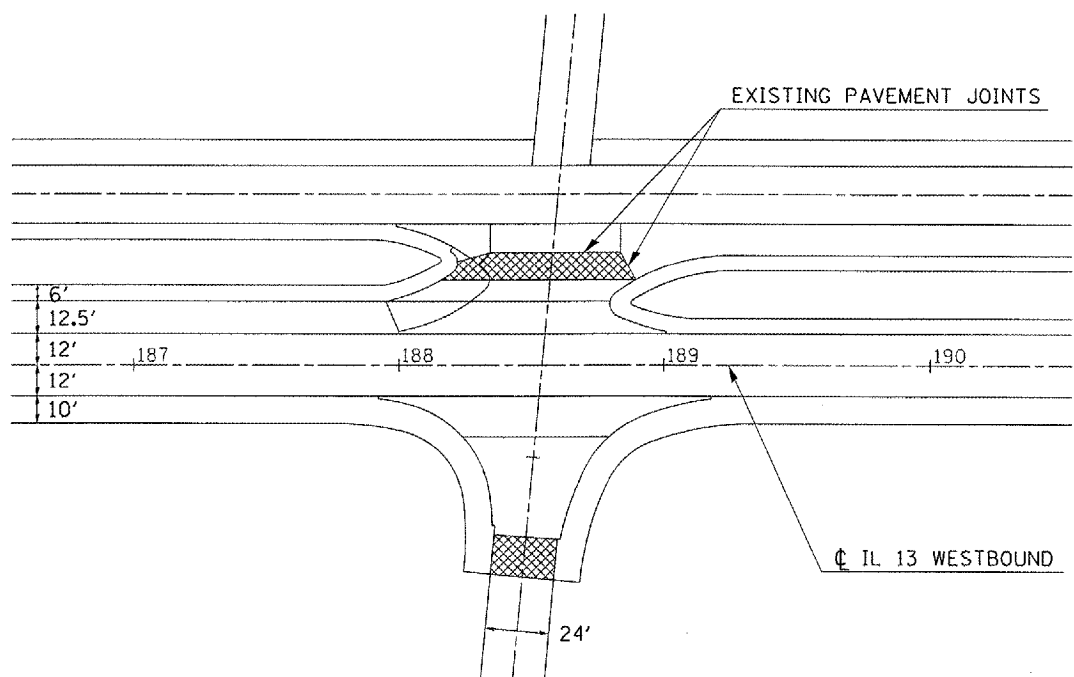
STA 160+50  
WOOD ROAD



PCC SURFACE REMOVAL, BUTT JOINT

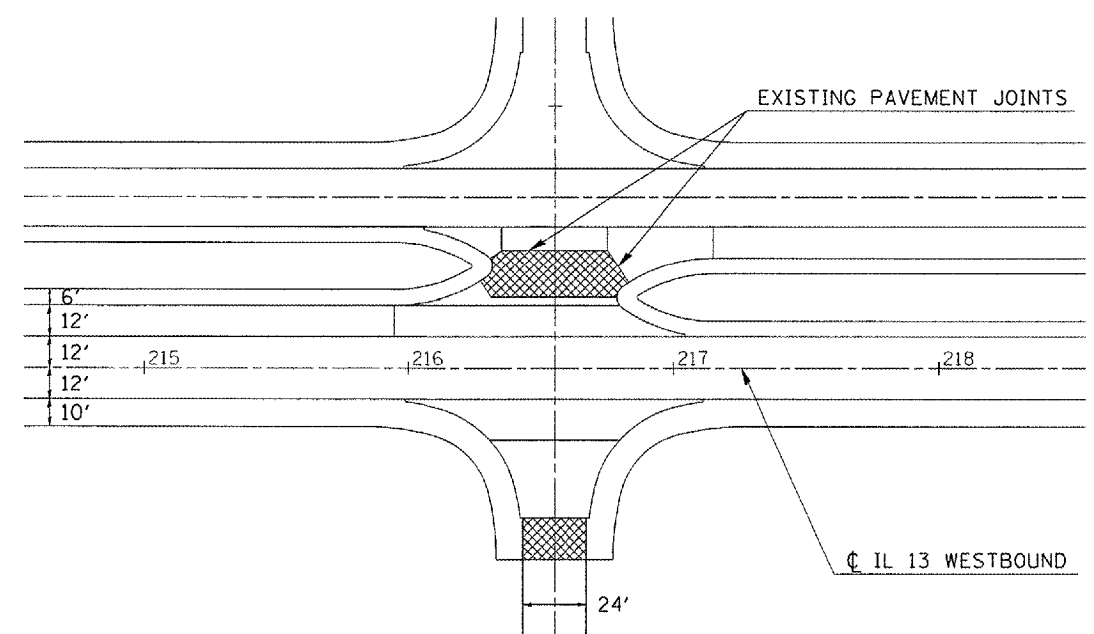
### DETAIL OF INTERSECTION RESURFACING

STA 188+54  
AIRPORT ROAD



### DETAIL OF INTERSECTION RESURFACING

STA 216+55  
COUNTRY CLUB ROAD

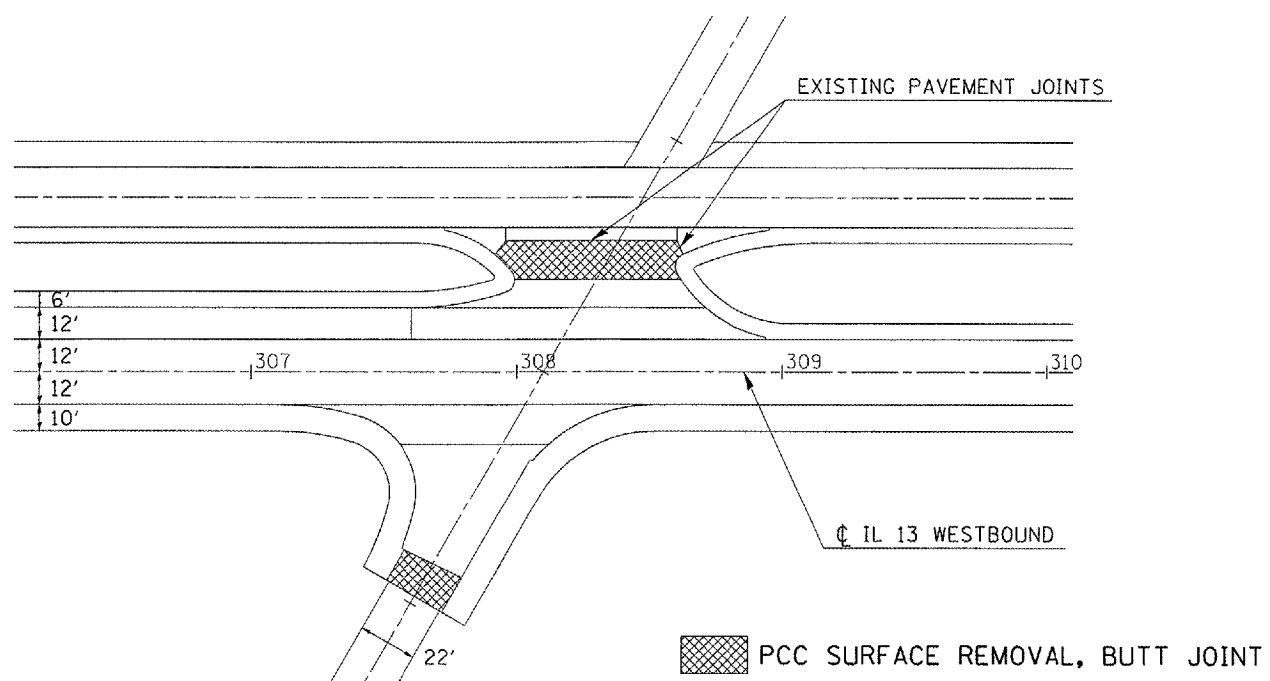


PLOT DATE = 10/3/2005  
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USER NAME = thomashf

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				

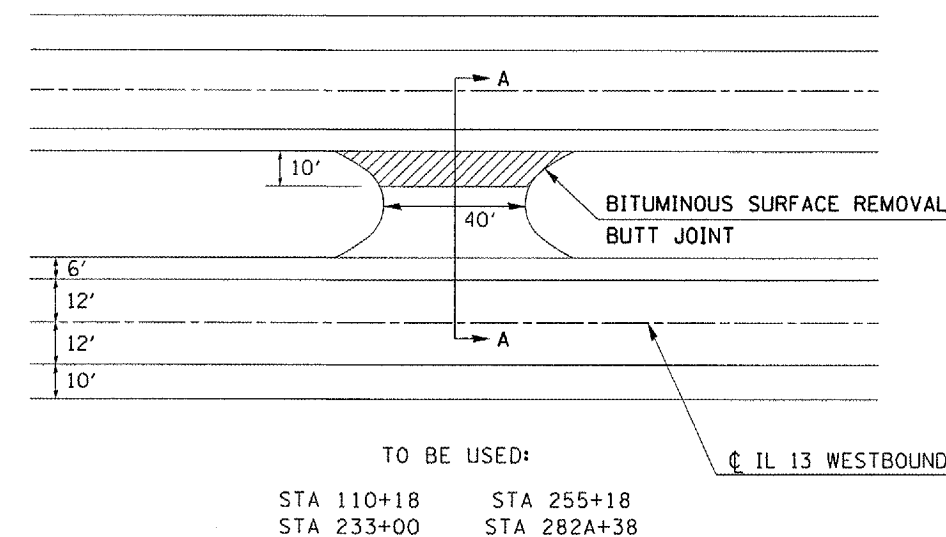
### DETAIL OF INTERSECTION RESURFACING

STA 308+10  
SIZEMORE DRIVE



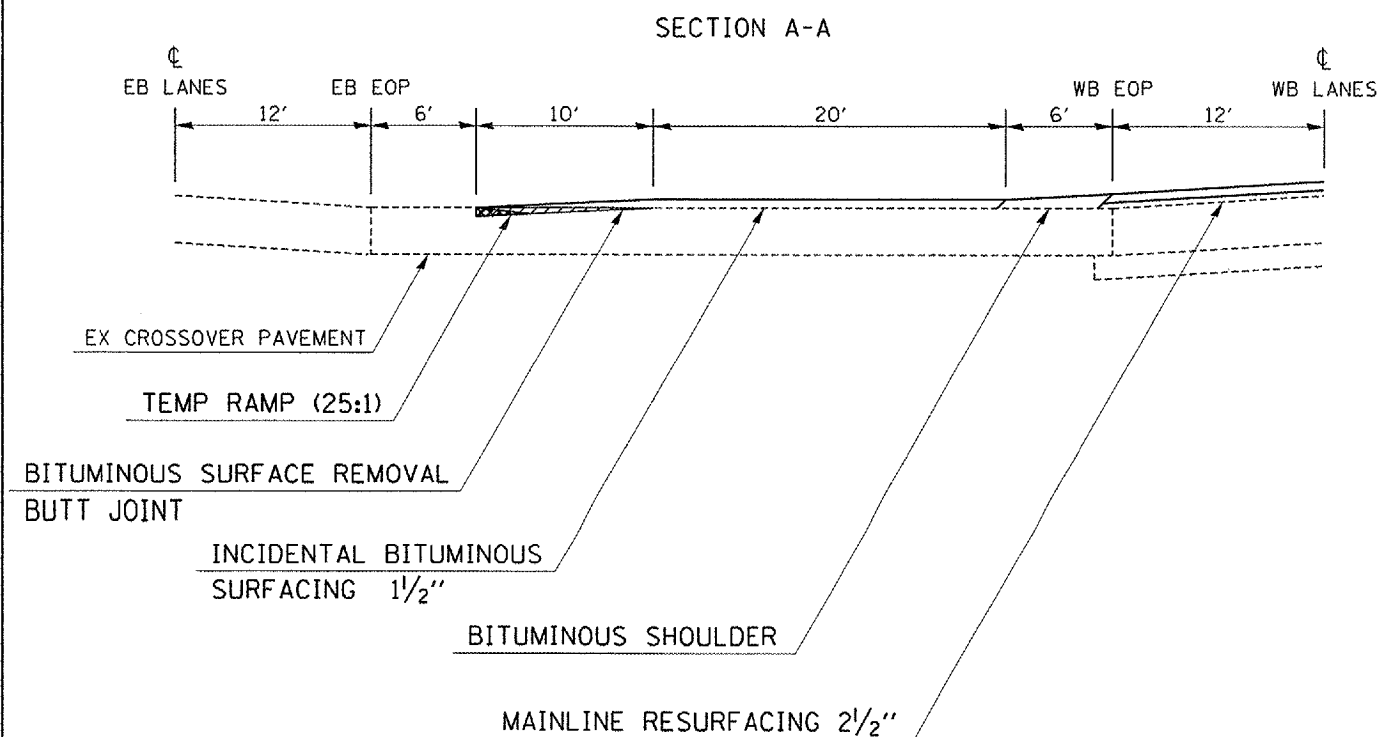
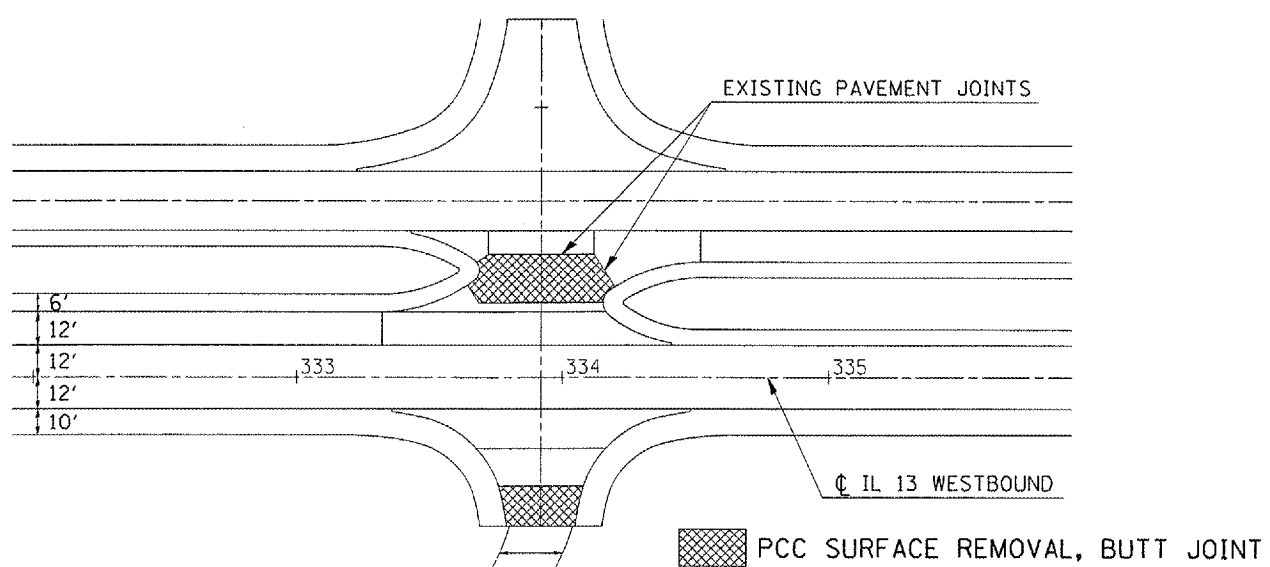
### DETAIL OF MEDIAN CROSSOVERS

FAP 331 (IL 13)



### DETAIL OF INTERSECTION RESURFACING

STA 333+92  
CROSSROAD

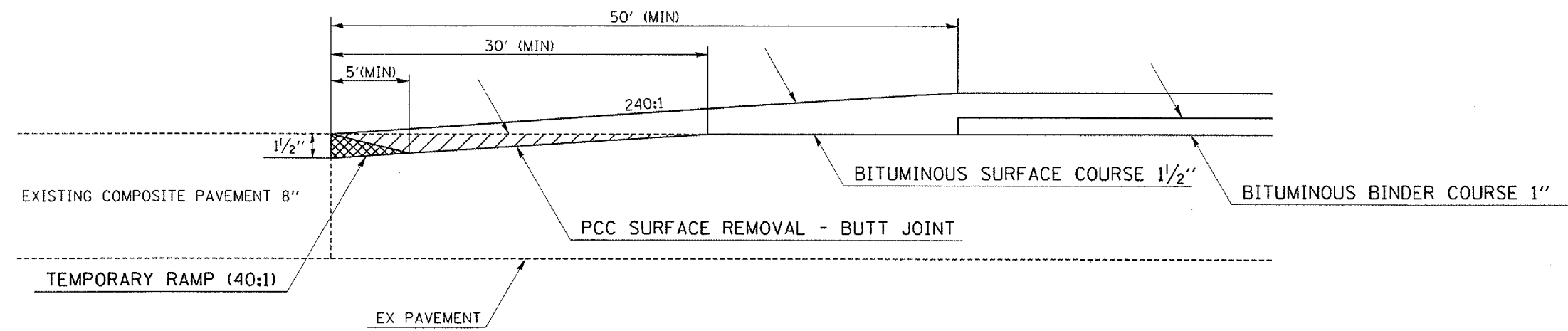


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USER NAME = thomeshf

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				

### BUTT JOINT DETAIL

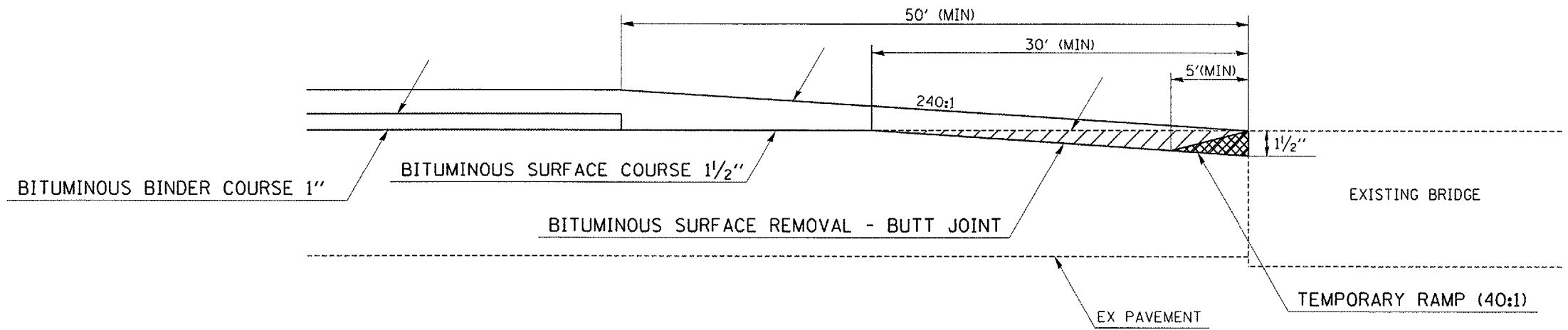
FAP 331 (IL 13)  
BEGINNING OF PROJECT



TO BE USED:  
STA 70+00 TO STA 70+50

### BUTT JOINT DETAIL

FAP 331 (IL 13)  
END OF PROJECT



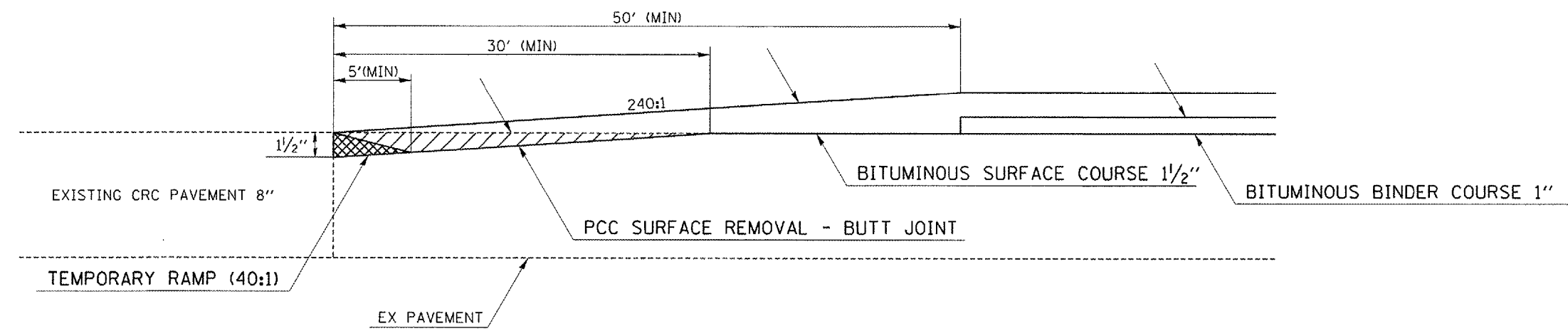
TO BE USED:  
STA 338+14 TO STA 338+64

PLOT DATE = 10/3/2005  
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USER NAME = thomashf

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				

### BUTT JOINT DETAIL

FAP 331 (IL 13)  
VARIOUS LOCATIONS

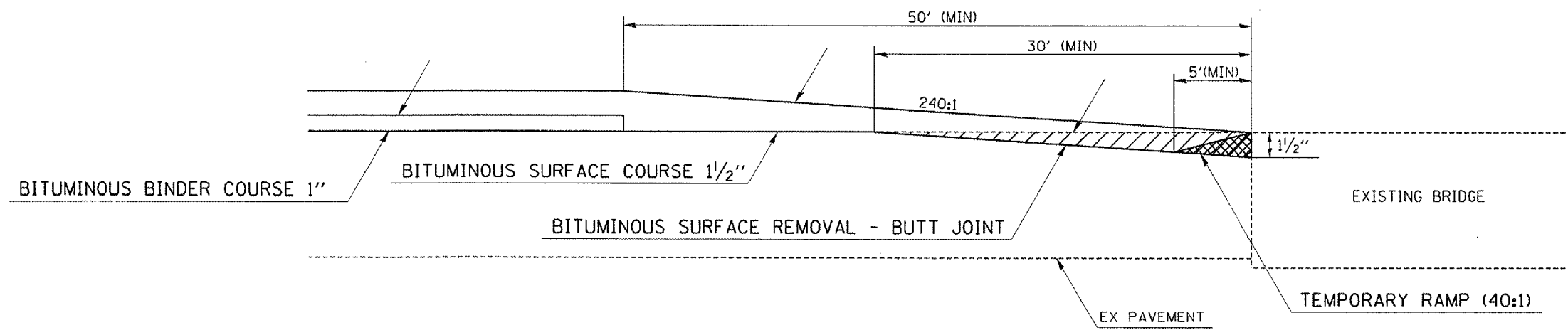


TO BE USED:

- STA 91+95 TO STA 92+45 AND STA 99+20 TO STA 99+70
- STA 261+95 TO STA 262+45 AND STA 268+35 TO STA 268+85
- STA 317+85 TO STA 318+35 AND STA 325+45 TO STA 325+95

### BUTT JOINT DETAIL

FAP 331 (IL 13)  
VARIOUS LOCATIONS



TO BE USED:

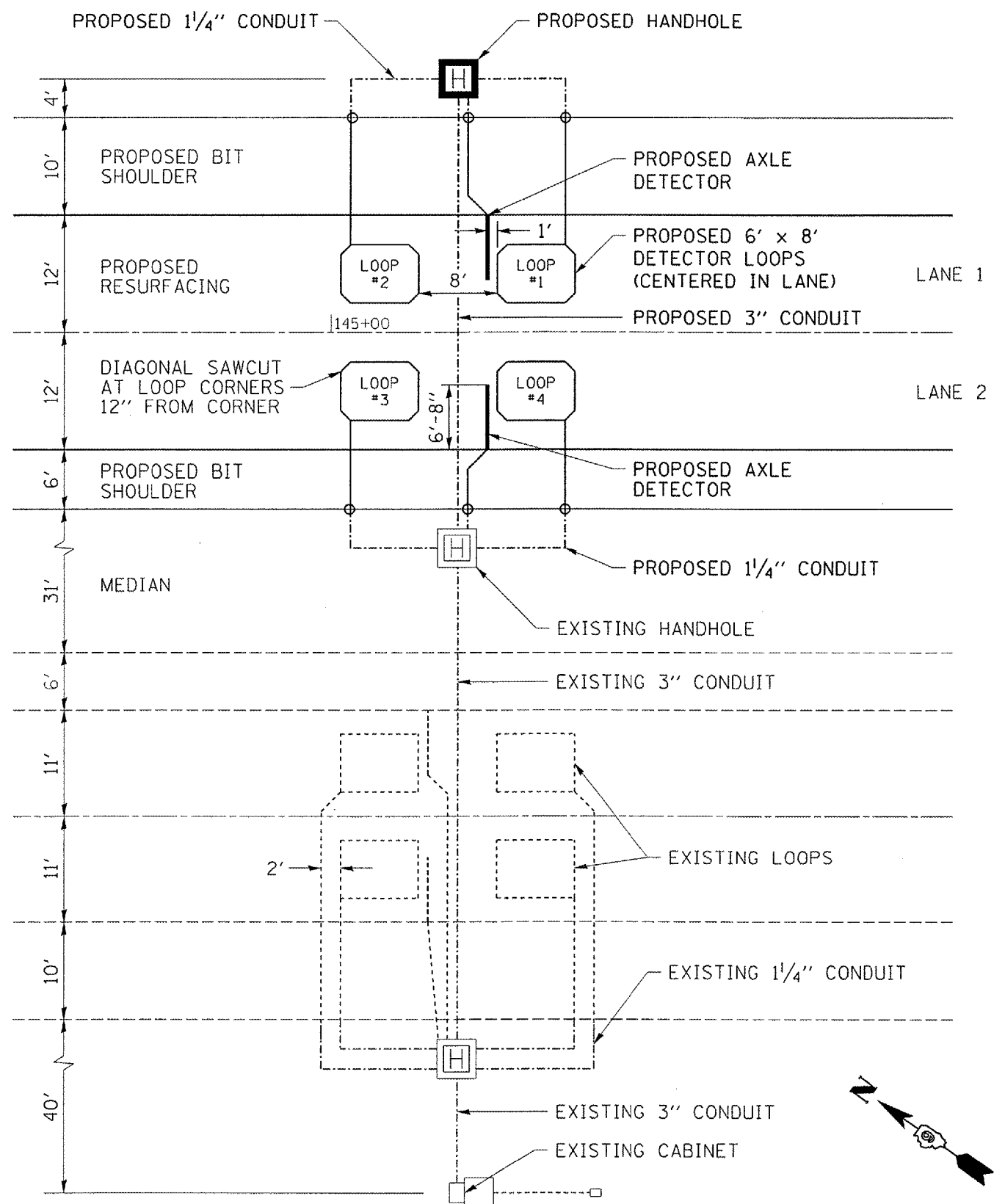
- STA 167+75 TO STA 168+25 AND STA 170+26 TO STA 170+76
- STA 242+57 TO STA 243+07 AND STA 244+70 TO STA 245+20

PLOT DATE = 10/3/2005  
 FILE NAME = c:\projects\901005\901005.ms.m32  
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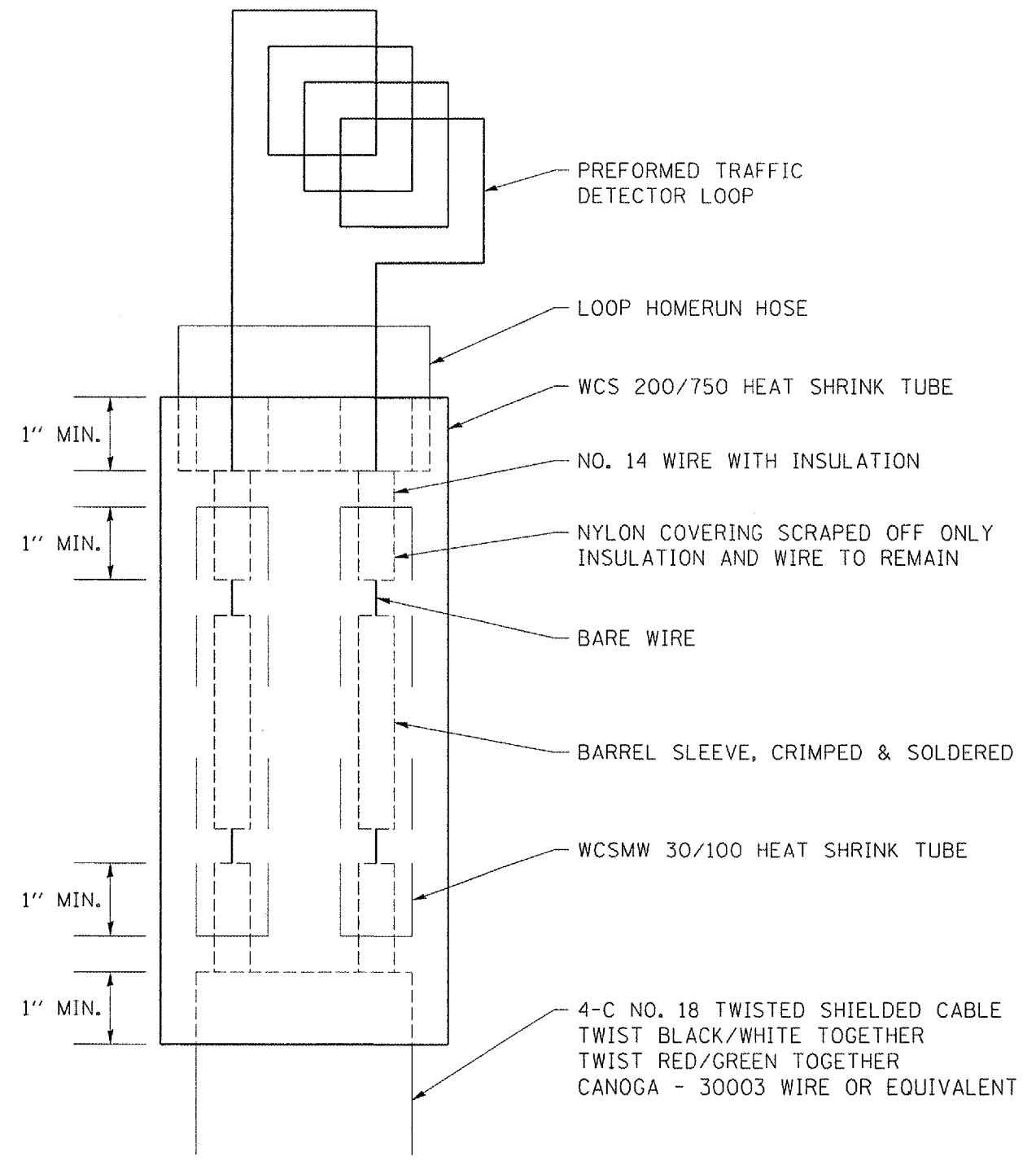
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98904				

### DETECTOR LOOP DETAIL

FAP 331 (IL 13) WB  
STATION 144+85



### LOOP SPLICING DETAIL



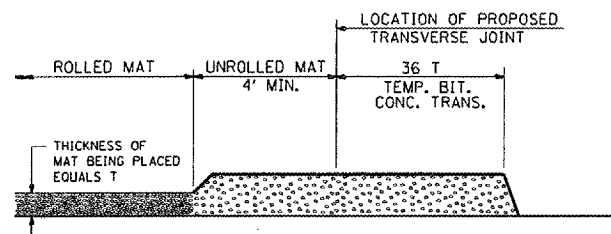
MINIMUM 1" HEAT SHRINK TUBING OVERLAP ON WIRE  
PVC AND SHIELDED CABLE TO FORM WATERTIGHT SEAL

PLOT DATE = 10/3/2005  
FILE NAME = c:\projects\901005\d901005.ms.m32  
PLOT SCALE = 108.4337 / IN.  
USER NAME = thomeshf



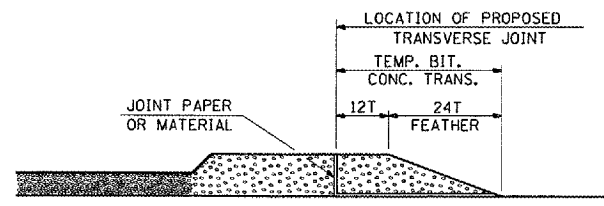
## TEMPORARY BITUMINOUS CONCRETE TRANSITIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
331	(12-1) RS-1	JACKSON	16	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98904				



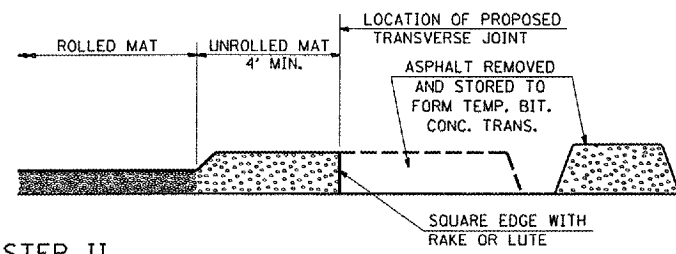
### STEP I

1. PLACE BITUMINOUS MAT, LENGTH 36 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



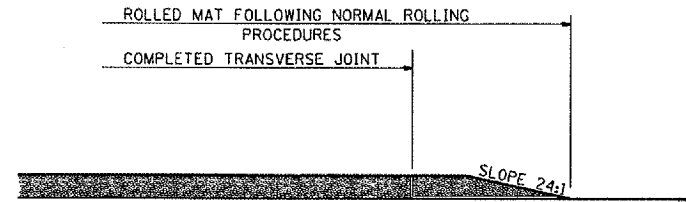
### STEP III

1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



### STEP II

1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY BITUMINOUS CONCRETE TRANSITION.
2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



### STEP IV

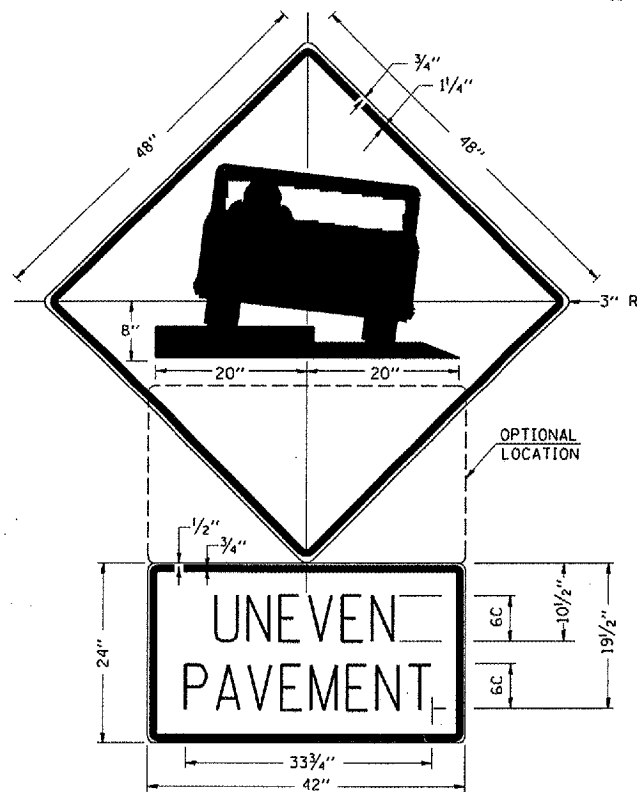
1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE BITUMINOUS MATERIAL BEING PLACED.

REVISIONS	
REDRAWN	2-15-88
REVISED	8-16-94
REVISED	
REVISED	

STD. 9-26

## UNEVEN PAVEMENT SIGN

W8-9a-(0)-48



**COLORS:**  
 LEGEND AND BORDER - BLACK NON-REFLECTORIZED  
 BACKGROUND - ORANGE REFLECTORIZED

**NOTE:** PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

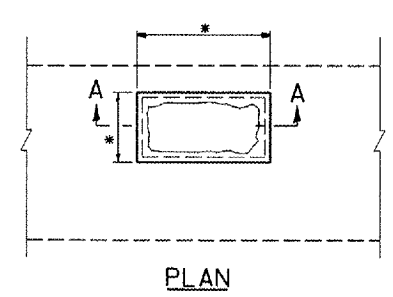
IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

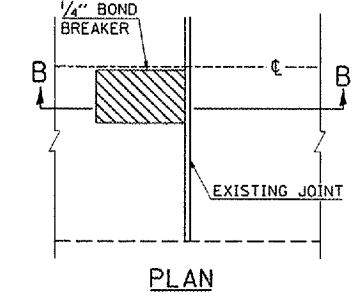
REVISIONS	
DRAWN	2-15-89
REVISED	4-6-93
REVISED	
REVISED	

STD 9-41

## DETAILS OF P.C.C. PATCHING-PARTIAL DEPTH

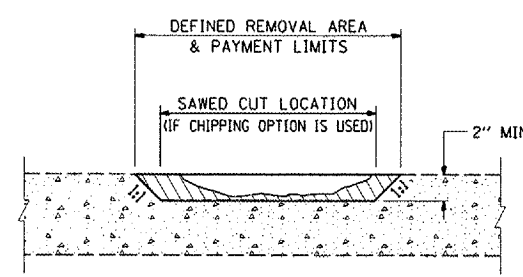


PLAN

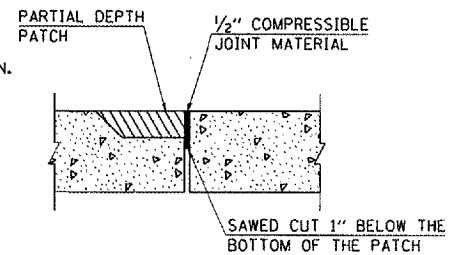


PLAN

\* LIMITS OF PARTIAL DEPTH PATCHING AS DIRECTED BY THE ENGINEER.



SECTION A-A



SECTION B-B

### NOTES:

THE CONTRACTOR HAS THE OPTION OF SAWING THE PAVEMENT AND CHIPPING THE EDGES OR BY MILLING THE DEFINED AREA OF THE PATCH.

THE PAVEMENT SHALL BE SAWED A MINIMUM OF 2 INCH DEPTH IF THE SAWING OPTION IS USED.

THE DIAMETER OF THE WHEEL SAW OR MILLING MACHINE SHALL BE OF SUFFICIENT SIZE TO MAINTAIN THE 1:1 SIDE SLOPE. CHIPPING MAY STILL BE REQUIRED ON NARROW SIDES IF SO DIRECTED BY THE ENGINEER.

BEFORE SANDBLASTING, ALL VISIBLE WIRE MESH SHALL BE REMOVED FLUSH WITH THE CONCRETE BEING PATCHED.

IMMEDIATELY BEFORE APPLYING GROUT PRIOR TO CONCRETE PLACEMENT ALL EXPOSED SURFACES SHALL BE CLEANED BY SANDBLASTING, AIRBLASTING, WASHING AND BRUSHING.

A HAND VIBRATOR OR VIBRATING SCREED SHALL BE USED DURING THE PATCHING OPERATIONS.

BURLAP CURING BLANKETS ARE NOT REQUIRED. CURING SHALL BE WITH CURING COMPOUNDS MEETING THE APPROVAL OF THE ENGINEER.

FOR ADDITIONAL REQUIREMENTS AND BASIS OF PAYMENT, SEE THE SPECIAL PROVISIONS.

REVISIONS	
DRAWN	2-15-89
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STD. 9-37

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 FILE NAME = c:\projects\9010095\9010095.ms.m32  
 PLOT SCALE = 108.4337 / IN.  
 USER NAME = thomashf

## DETAILS: TEMPORARY BITUMINOUS TRANSITIONS, UNEVEN PAVEMENT SIGN & PCC PATCHING - PARTIAL DEPTH