

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

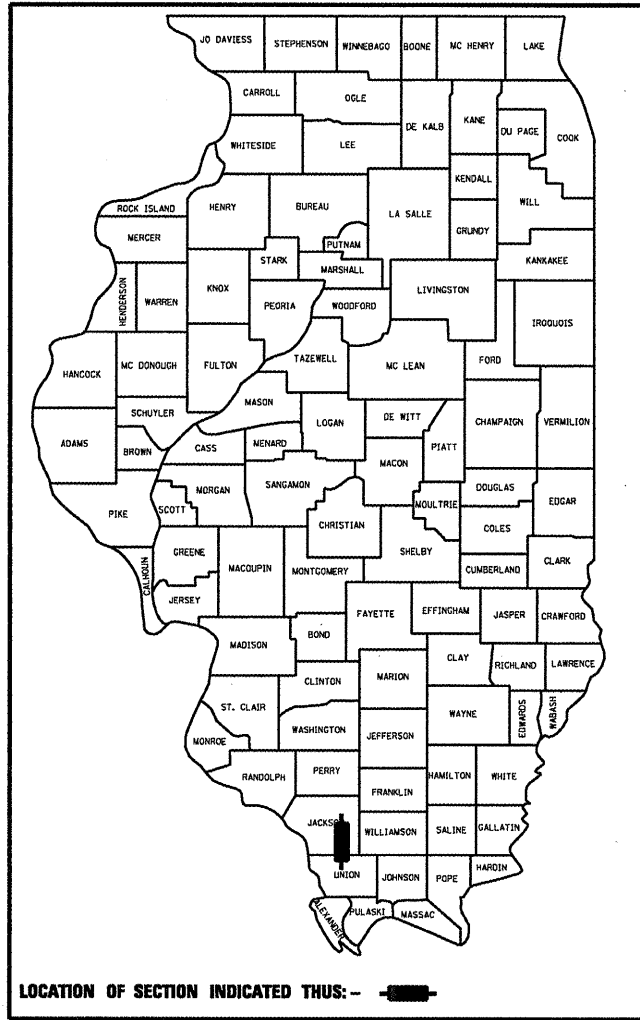
FAP ROUTE 322 (US 51)  
SECTION (10-1)RS-1

JACKSON COUNTY

C-99-071-09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	10-1RS-1	JACKSON	28	1
		ILLINOIS	CONTRACT NO. 78145	

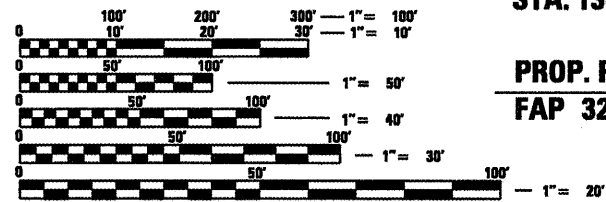
D-99-052-09



FOR INDEX OF SHEETS, SEE SHEET NO. 3

ADT - 6590 (2010)  
PV = 6170  
MU = 235  
SU = 185  
TRUCK = 6.3%

TOWNSHIP: MAKANDA



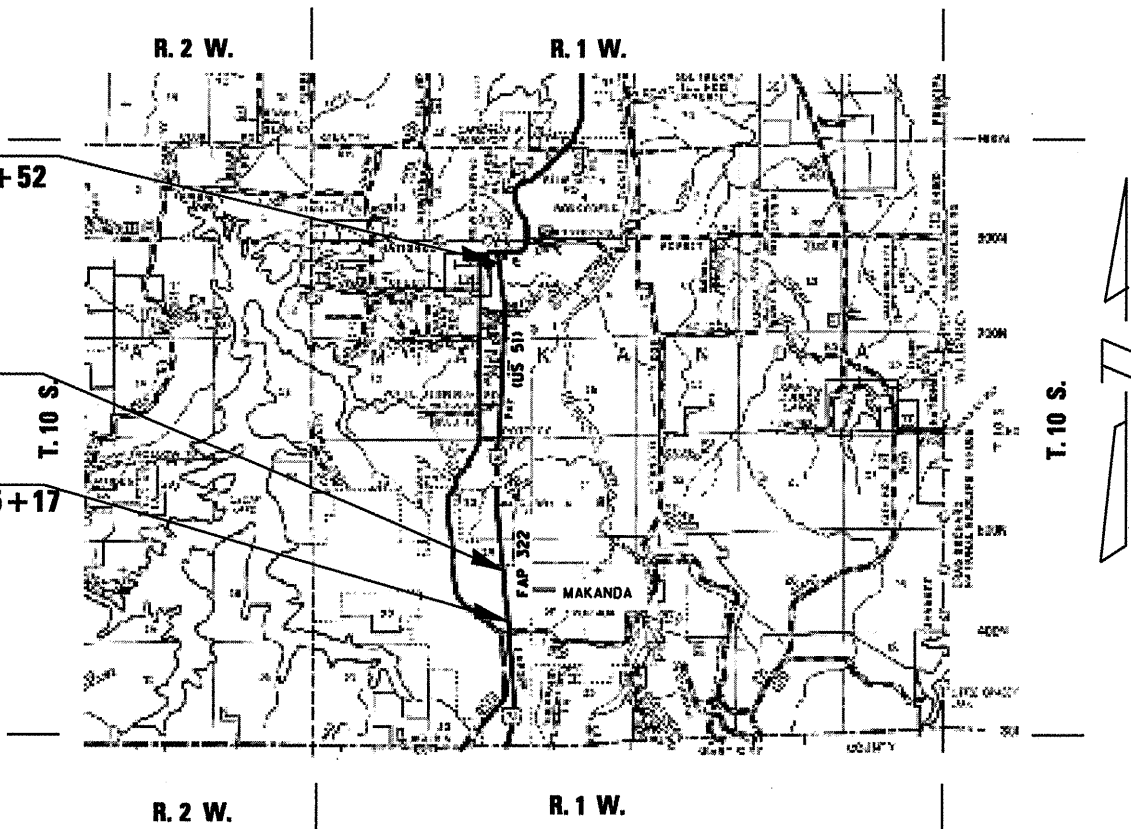
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROP. PROJECT BEGINS  
FAP 322 (US 51) STA. 293+52

EQ. STA. 450+50.6 (BK) =  
STA. 1341+81.64 (AH)

PROP. PROJECT ENDS  
FAP 322 (US 51) STA. 1375+17



GROSS LENGTH = 19,033.96 FT. = 3.60 MILE  
NET LENGTH = 19,033.96 FT. = 3.60 MILE

PROJECT ENGINEER CHARLES STEIN (618-351-5210)  
PROJECT MANAGER KATHI MCCORD (618-351-5216)

CONTRACT NO. 78145

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *Jan 21, 2010*  
*Mark C. Harris*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*March 19, 2010*  
*Scott E. Stettin*  
Acting ENGINEER OF DESIGN AND ENVIRONMENT

*March 19, 2010*  
*Christine M. Reed*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

Prepared By: *Joe Zampieri*  
DISTRICT STUDIES & PLANS ENGINEER

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DISTRICT LAND ACQUISITION ENGINEER

Examined By: *Carrie Nelson*  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *Walt Hill*  
DISTRICT OPERATIONS ENGINEER

Examined By: *Jim Smother*  
DISTRICT CONSTRUCTION ENGINEER

Examined By: *Bruce Peebles*  
DISTRICT MATERIALS ENGINEER

Examined By: *Jim Smother*  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: *Dan Dayton*  
ASSISTANT REGIONAL ENGINEER

Approved By: *Mer O'Hara*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*Jan 21*                      *20 10*  
DATE

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	PLOT DATE = 12/8/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

-----**SIGNATURE BLOCK**-----

SCALE: -----	SHEET NO. OF SHEETS	STA. TO STA.	F.A.P. RTE. -322	SECTION -110-2185-1	COUNTY -JACKSON	TOTAL SHEETS -29	SHEET NO. -2
						CONTRACT NO. 78145	
ILLINOIS FED. AID PROJECT							

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS AND HIGHWAY STANDARDS
4	GENERAL NOTES AND MIXTURE REQUIRMENTS
5-6	SUMMARY OF QUANTITIES
7	TYPICAL SECTION
8	SCHEDULE FOR MAINLINE RESURFACING
9	SCHEDULES FOR SIDE ROADS AND ENTRANCES RESURFACING
10	SCHEDULE FOR PAVEMENT MARKING
11 - 23	PLAN LAYOUT FOR FAP 322 (US 51) FROM STA. 293+52 TO STA. 1374+77
24	DETAILS: BUTT JT AT BEGINNING AND ENDING OF PROJECT
25	DETAIL: HOT-MIX ASPHALT CURB AND SHOULDER REPAIR LT. STA. 354+88
26	DETAILS: SIDE ROAD AND ENTRANCE DETAILS
27	STANDARD DETAILS - TEMP. HOT-MIX ASPHALT TRANSITIONS
28	STANDARD DETAILS - ROUGH GROOVED SURFACE SIGN; UNEVEN LANE SIGN; MAILBOX TURNOUT

HIGHWAY STANDARDS

000001-05	701311-03
442101-07	701336-05
701301-03	701901-01
701306-02	780001-02
	781001-03

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

----- INDEX OF SHEETS -----

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	10:UBS:1	JACKSON	28	3
CONTRACT NO. 10149				

**GENERAL NOTES**

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

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES EXCEPT FOR OC/OA OF BITUMINOUS MIXTURES:

ALL HOT-MIX ASPHALT.....2.016 TONS/CU.YD.  
 ALL AGGREGATE.....2.05 TONS/CU.YD.  
 BITUMINOUS MATERIALS (PRIME COAT)  
     ON PAVEMENT.....0.09 GALS./SQ. YD.  
     ON AGG. SURFACE.....0.32 GALS./SQ. YD.  
 AGGREGATE (PRIME COAT).....0.0015 TONS/SQ. YD.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS WAS BASED ON ONE APPLICATION EACH FOR THE PRIME COAT, SURFACE COURSE AND LEVELING BINDER.

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.

THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED BITUMINOUS MATS AT 300 FT. INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5½" TALL OF A DESIGN APPROVED BY THE ENGINEER AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, HOT-MIX ASPHALT RESURFACING SHALL BE PLACED IN A SEQUENCE THAT WILL MINIMIZE THE TIME THAT A LANE EDGE IS EXPOSED TO TRAFFIC.

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

**MIXTURE REQUIREMENTS SHALL BE PREPARED AS DIRECTED BELOW:**

FOR US 51 MAINLINE SURFACE COURSE:

Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mixture D, N90
AC/PG:	PG64-22
RAP % (Max.):	10
Design Air Voids:	4.0%, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm or IL-12.5 mm
Friction Aggregate:	D Surface

FOR US 51 MAINLINE LEVELING BINDER:

Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mixture C, N90
AC/PG:	PG64-22
RAP % (Max.):	10
Design Air Voids:	4.0%, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm or IL-12.5 mm
Friction Aggregate:	None

SIDE ROADS.: INCIDENTAL HMA SURFACE

Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mixture C, N90
AC/PG:	PG64-22
RAP % (Max.):	10
Design Air Voids:	4.0%, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm or IL-12.5 mm
Friction Aggregate:	C Surface

FOR US 51 HMA SHOULDERS

Mixture Use(s):	Hot-Mix Asphalt Shoulders
AC/PG:	PG58-22
RAP % (Max.):	50
Design Air Voids:	2.0%, 30 Gyration Design
Mixture Composition: (Gradation Mixture)	HMA Shoulders
Friction Aggregate:	None

FOR US 51 HMA CURB AND SHOULDER REPAIR

Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mixture C, N70
AC/PG:	PG64-22
RAP % (Max.):	10
Design Air Voids:	4.0%, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5 mm or IL 12.5 mm
Friction Aggregate:	None

SUMMARY OF QUANTITIES

FAP 322 (US 51)  
 100% STATE  
 RESURFACING  
 JACKSON COUNTY  
 CONSTRUCTION TYPE  
 CODE 1000

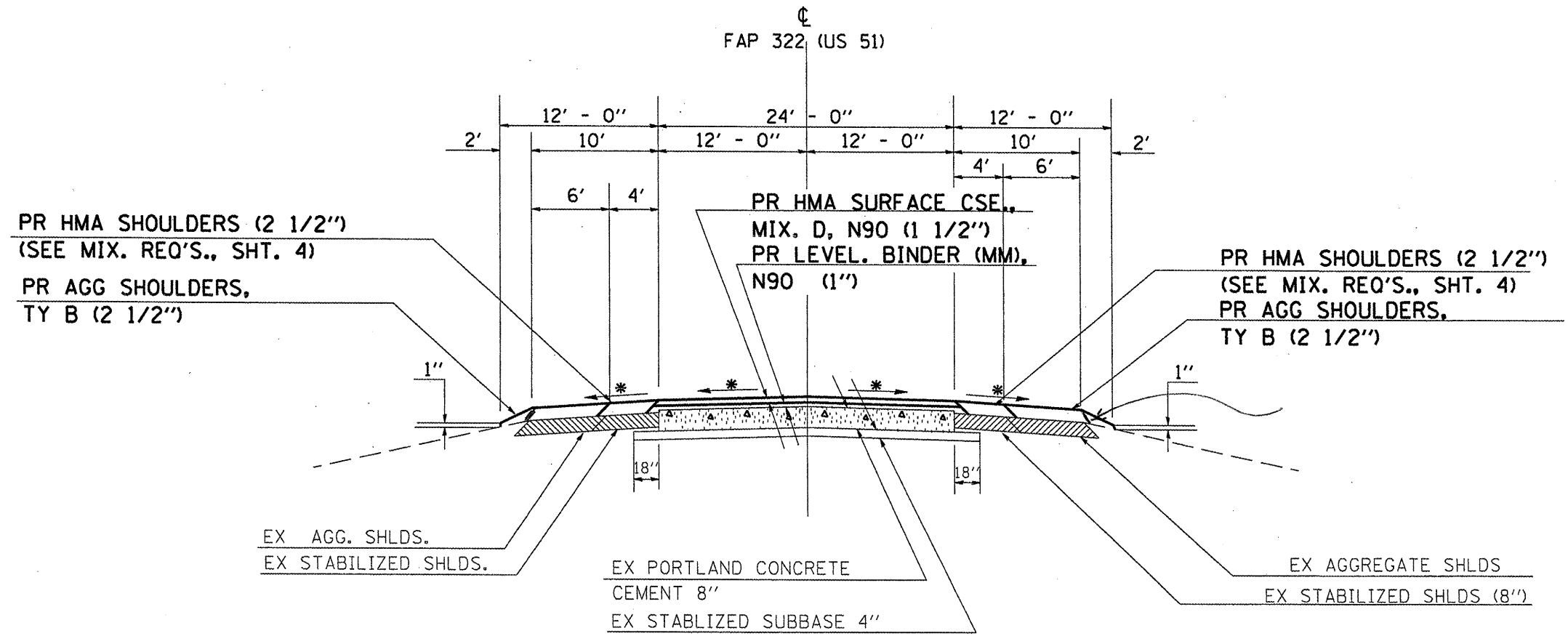
CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
X0322729	MATERIAL TRANSFER DEVICE	TON	4287
Z0017100	DOWEL BARS	EACH	3500
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	10899
40600300	AGGREGATE (PRIME COAT)	TON	182.5
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	29
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	2856
40600895	CONSTRUCTING TEST STRIP	EACH	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1020
40600990	TEMPORARY RAMP	SQ YD	28
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIXTURE *D*, N90	TON	4287
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	129
44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD	1418
44212900	PAVEMENT PATCHING (PARTIAL DEPTH)	SQ YD	110
44213200	SAW CUTS	FOOT	6324
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	52
48101200	AGGREGATE SHOULDERS, TYPE B	TON	3894
48203100	HOT-MIX ASPHALT SHOULDERS	TON	3129
63301000	REMOVE AND RE ERECT STEEL PLATE BEAM GUARDRAIL	FOOT	25
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1

SUMMARY OF QUANTITIES  
(CONTINUED)

FAP 322 (US 51)  
100% STATE  
RESURFACING  
JACKSON COUNTY  
CONSTRUCTION TYPE  
CODE 1000

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3
70300100	SHORT- TERM PAVEMENT MARKING	FOOT	2246
70300220	TEMPORARY PAVEMENT MARKING- LINE 4"	FOOT	44798
70300280	TEMPORARY PAVEMENT MARKING- LINE 24"	FOOT	124
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	15524
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	44798
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	124
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	239
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	171

\*Specialty Items



\* Match Existing Slope

TO BE USED:  
STA. 293+52 TO STA. 450+50.60  
STA. 1341+81.64 TO STA. 1375+17

EQUATION STATIONS:  
EQ. STA. 450+50.60 (BK) =  
STA. 1341+81.64 (AH)

FILE NAME =	USER NAME = moordkr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTION</b>	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\p\work\PWIDOT\MCCOROKR\02146909\d9	0145-shr-misc.dgn	DRAWN -	REVISED -			322	10-1185-1	JACKSON	28	7
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	PLOT DATE = 1/4/2010	DATE -	REVISED -							
						SCALE: _____	SHEET NO. _____ OF _____ SHEETS		STA. _____ TO STA. _____	
						ILLINOIS FED. AID PROJECT				

## RESURFACING SCHEDULE

LOCATION	STATION TO STATION		LENGTH	ROADWAY WIDTH	SHOULDER WIDTH	ROADWAY OR SHLD. AREA	HOT-MIX ASP. SURF. REMOV. - BUTT JT.	TEMP RAMP	HOT-MIX ASP. SUR. CSE. MIX D. N 90 (1 1/2")	LEVELING BINDER (MM) N90 (1")	BIT. MAT. (PRIME COAT)	AGG. (PRIME COAT)	AGG. SHLDRS., TY. B	HMA SHOULDERS	NOTES	
			FOR INFORMATIONAL PURPOSE ONLY													
			(FT)	(FT)	(FT)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(TON)	(GAL)	(TON)	(TON)	(TON)		
<b>FAP 322 (US 51) 293+52 TO STA. 1375+17</b>																
	293+52.00	TO	450+50.60	15699	24.0	41863	107	14	3517	2352	7536	126.0				
	293+52.00	TO	450+50.60	15699	See Note 3.				19	8						
LT	293+52.00	TO	299+05.00	553		246					22.1	0.4	63.0	41		
LT	299+05.00	TO	302+79.00	374		416					37.4	0.6		70		
LT	302+79.00	TO	352+24.00	4843		2152					193.7	3.2	556.0	362	See note 1.	
LT	352+24.00	TO	359+54.00	730		811					73.0	1.2		136		
LT	359+54.00	TO	408+27.00	4729		2102					189.2	3.2	545.0	353	See note 1.	
LT	408+27.00	TO	413+87.00	560		622					56.0	0.9		105		
LT	413+87.00	TO	450+50.60	3553		1579					142.1	2.4	410.0	265	See note 1.	
RT	293+52.00	TO	300+67.00	715		318					28.6	0.5	36.0	53		
RT	300+67.00	TO	306+27.00	560		622					56.0	0.9		105		
RT	306+27.00	TO	355+98.00	4813		2139					192.5	3.2	558.0	359	See note 1.	
RT	355+98.00	TO	358+39.00	241		268					24.1	0.4		45		
RT	358+39.00	TO	409+78.00	4988		2217					199.5	3.3	576.0	372	See note 1.	
RT	409+78.00	TO	415+50.00	572		636					57.2	1.0		107		
RT	415+50.00	TO	450+50.60	3481		1547					139.2	2.3	396.0	260		
LT	354+76.00	TO	355+01.00	25		8								4	See note 2.	
<b>Eq. Sta. 39+20 (bk) = Sta. 39+36 (ah)</b>																
	1341+81.64	TO	1375+17.00	3,335.4	24.0	8,894.3	107	14	747	494	1601	27.0				
	1341+81.64	TO	1375+17.00	3,335.4	See Note 3.				4	2						
LT	1341+81.64	TO	1375+17.00	3,255.4		1,446.8					130.2	2.2	370.8	243	See note 1.	
RT	1341+81.64	TO	1375+17.00	3,335.4		1,482.4					133.4	2.2	379.9	249		
<b>PROJECT TOTALS</b>									<b>214</b>	<b>28</b>	<b>4287</b>	<b>2856</b>	<b>10811</b>	<b>180.9</b>	<b>3891</b>	<b>3129</b>

Note 1. Side road and entrance lengths have been subtracted from these locations.

Note 2. Existing bituminous curb and shoulder repair included in cost of HMA Shoulders.

Note 3. Surface Wedge at edge of surface = .125' and Binder Wedge at edge of binder = .083'.



### SIDE ROAD SCHEDULE

LOCATION	EXIST. SURFACE	EP WIDTH	WIDTH AT 15' OFFSET	ROADWAY AREA	HOT-MIX ASP. SURF. REMOV. - BUTT JT.	INCIDENTAL HMA SURFACING	BIT. MAT. (PRIME COAT)	AGG. (PRIME COAT)				
									FOR INFORMATIONAL PURPOSE ONLY			
									(FT)	(FT)	(SQ YD)	(SQ YD)
<b>FAP 322 (US 51)</b>												
Lt. Rifle Range Rd.	321+14.00	Bit.	78.0	45.0	103	103	9	9.3	0.15			
Rt. Rifle Range Rd.	321+14.00	Bit.	77.0	41.0	98	98	8	8.8	0.15			
Rt. Cashen Rd.	347+60.00	Bit.	81.0	33.0	95	95	8	8.6	0.14			
Rt. White Deer Run	367+78.00	Oil & Chip	67.0	35.0	85	85	14	7.5	0.13			
Lt. Potter's Rd.	388+31.90	Oil & Chip	83.0	51.0	112	112	19	10.1	0.17			
Rt. Potter's Rd.	388+31.90	Oil & Chip	84.0	49.0	111	111	19	10.0	0.17			
Lt. Curry Lane	420+50.00	Oil & Chip	81.0	41.0	102	102	17	9.2	0.15			
Lt. Hartline Rd. (Stone Creek Golf Cse. Ent.)	1361+58.12	Bit.	81.0	39.0	100	100	8	9.0	0.15			
<b>PROJECT TOTALS</b>												
					806	102	72	1.2				

### ENTRANCE SCHEDULE

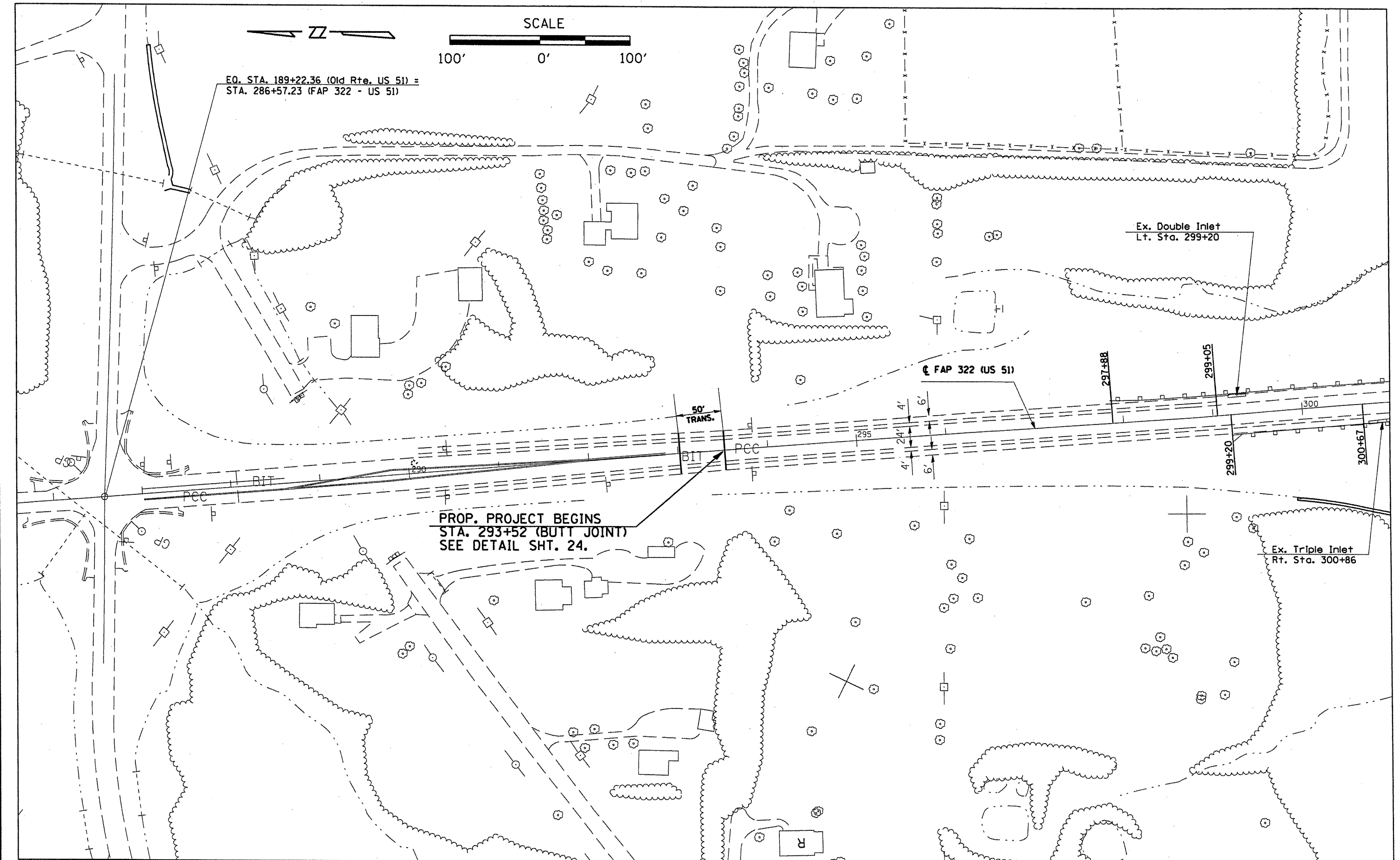
NAME	STATION	ENTRANCE TYPE	EXIST. SURFACE	EP WIDTH	WIDTH AT APRON	ROADWAY AREA	INCIDENTAL HMA SURFACING	BIT. MAT. (PRIME COAT)	AGG. (PRIME COAT)	AGG. SHLDRS. TY. A 6" (See Note 1)	AGG. WEDGE (See Note 2)					
												FOR INFORMATIONAL PURPOSE ONLY				
												(FT)	(FT)	(SQ YD)	(TON)	(GAL)
Witch Hollow Rd.	Lt. 347+60	Private Ent.	Agg.	24.0	17.0	36	5	3	0.05	9.0	0.5					
White Deer Run	Lt. 367+78	Private Ent.	Bit.	61.0	38.0	83	7	4	0.12							
PER	Lt. 442+50	Private Ent.	Agg.	30.0	20.0	26	4	2	0.04		0.6					
FER	Rt. 442+50	Private Ent.	Agg.	20.0	17.0	21	4	2	0.03	9.0	0.5					
FER	Rt. 420+50	Field Ent.	Agg.	25.0	16.0	25	3	2	0.04		0.5					
FER	Rt. 1361+58	Field Ent.	Agg.	29.0	16.0	25	4	2	0.04		0.5					
<b>SUBTOTALS</b>							27	16	0.32	18	2.6					

Note 1: Aggregate Shoulders, Type A 6" Is for two locations at Mailbox Turnouts. See Detail Sht. 27 for Mailbox Turnout Detail.  
 Note 2: Aggregate Wedge to be paid for as Aggregate Shoulders, Type B.

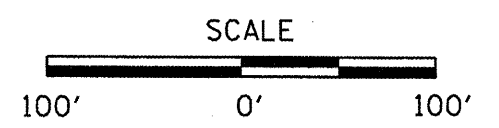
**PAVEMENT MARKING SCHEDULE**

STATION TO STATION				PAINT PAVEMENT MARKING			THERMOPLASTIC PAVEMENT MARKING	TEMPORARY		SHORT-TERM
				4 INCH WHITE (EDGE LINE)	4 INCH YELLOW (NO PASS ZONE)	4 INCH (SKIP-DASH)	24 INCH (STOP BAR) (SEE NOTE 1)	4 INCH	24 INCH	4 INCH
				FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
<b>MAINLINE: Sta. 293+50 to Sta. 1375+17</b>										
LT	293+52.0	TO	450+50.6	15457				15457		
RT	293+52.0	TO	450+50.6	15390				15390		
	293+52.0	TO	385+23.0		2293			2293	1101	
	388+40.0	TO	450+50.6		1553			1553	745	
LT	385+23.0	TO	397+58.0		1,235.0			1,235		
RT	373+93.0	TO	388+40.0		1,447.0			1,447		
LT	321+14.0		Rifle Range Rd.			16			16	
RT	321+14.0		Rifle Range Rd.			16			16	
RT	347+60.0		Cashen Rd.			16			16	
RT	367+78.0		White Deer Run			14			14	
LT	388+31.9		Potter's Rd.			16			16	
RT	388+31.9		Potter's Rd.			16			16	
LT	420+50.0		Curry Ln.			14			14	
LT	1361+58.1		Hartline Rd.			16			16	
<b>Eq. Sta. 450+50.60 (bk.) = Sta. 1341+81.64 (ah.)</b>										
LT	1341+81.6	TO	1375+17.0	3,254				3,254		
RT	1341+81.6	TO	1375+17.0	3,335				3,335		
	1341+81.6	TO	1375+17.0		834			834	400	
<b>SUB-TOTALS</b>				<b>37,436</b>	<b>2,682</b>	<b>4,680</b>	<b>124</b>	<b>44,798</b>	<b>124</b>	<b>2,246</b>
<b>TOTALS</b>					<b>44,798</b>		<b>124</b>	<b>44,798</b>	<b>124</b>	<b>2,246</b>

NOTE 1 : STOP BARS SHALL BE PLACED 10 FEET BACK FROM EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER.



EQ. STA. 189+22.36 (Old Rte. US 51) =  
STA. 286+57.23 (FAP 322 - US 51)



Ex. Double Inlet  
Lt. Sta. 299+20

CL FAP 322 (US 51)

PROP. PROJECT BEGINS  
STA. 293+52 (BUTT JOINT)  
SEE DETAIL SHT. 24.

Ex. Triple Inlet  
Rt. Sta. 300+86

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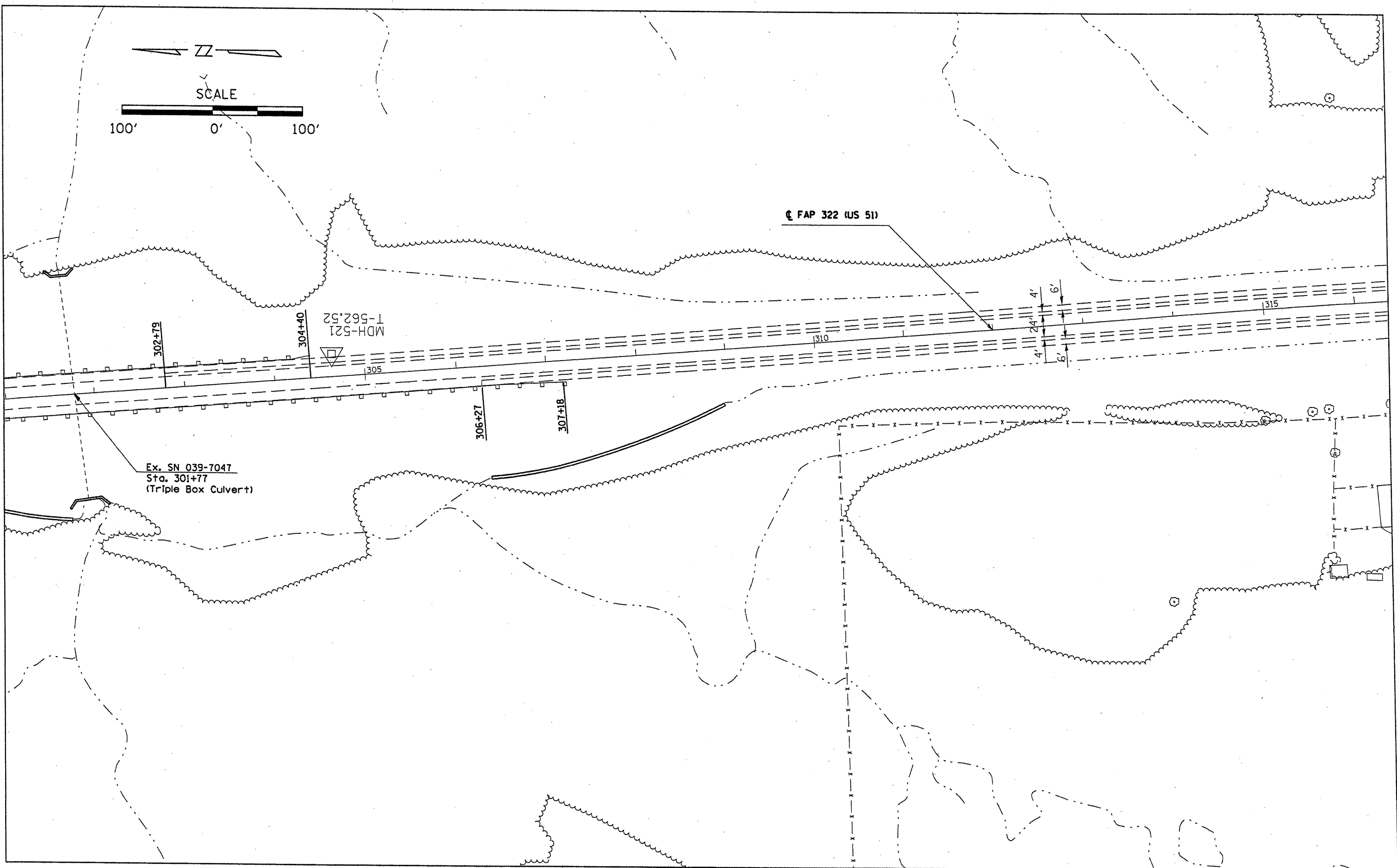
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PLOT DATE = 1/5/2010

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DRAWN -	REVISIONS
CHECKED -	REVISIONS
DATE -	REVISIONS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

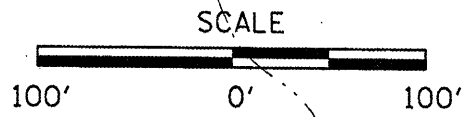
PLAN LAYOUT  
STA. 293 ± 52 TO STA. 301 ± 00  
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(10:1185-1)	JACKSON	28	11
CONTRACT NO. 78145				
ILLINOIS FED. AID PROJECT				



Ex. SN 039-7047  
Sta. 301+77  
(Triple Box Culvert)

C FAP 322 (US 51)



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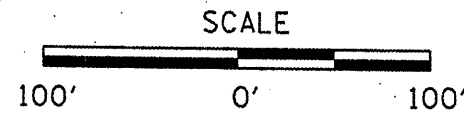
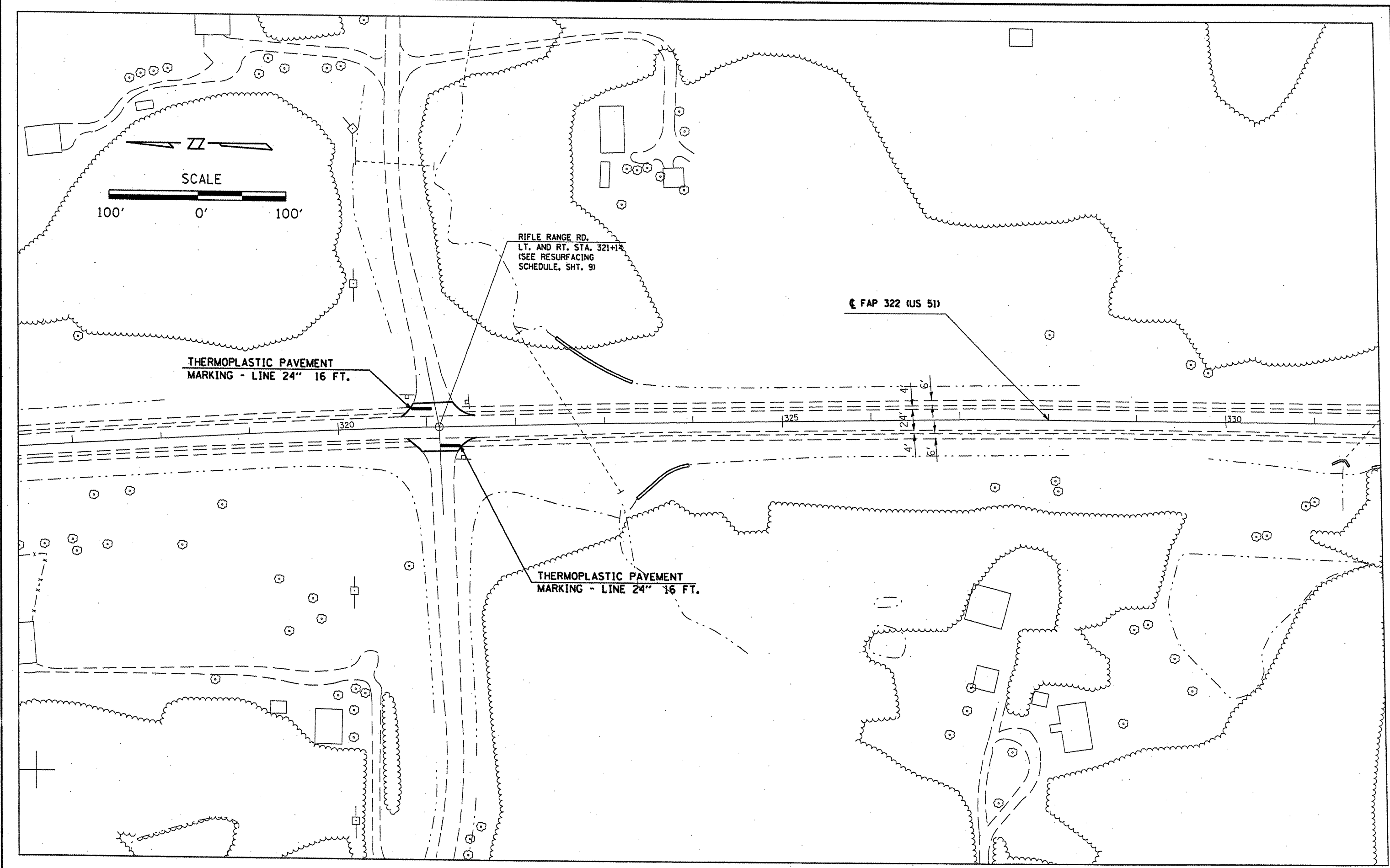
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DRAWN -	---	REVISED -	-----
CHECKED -	---	REVISED -	-----

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN LAYOUT  
--- STA. 301 ± 00 TO STA. 316 ± 50 ---

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	10:185:1	JACKSON	28	12

CONTRACT NO. 78145



RIFLE RANGE RD.  
 LT. AND RT. STA. 321+14  
 (SEE RESURFACING  
 SCHEDULE, SHT. 9)

☒ FAP 322 (US 51)

THERMOPLASTIC PAVEMENT  
 MARKING - LINE 24" 16 FT.

THERMOPLASTIC PAVEMENT  
 MARKING - LINE 24" 16 FT.

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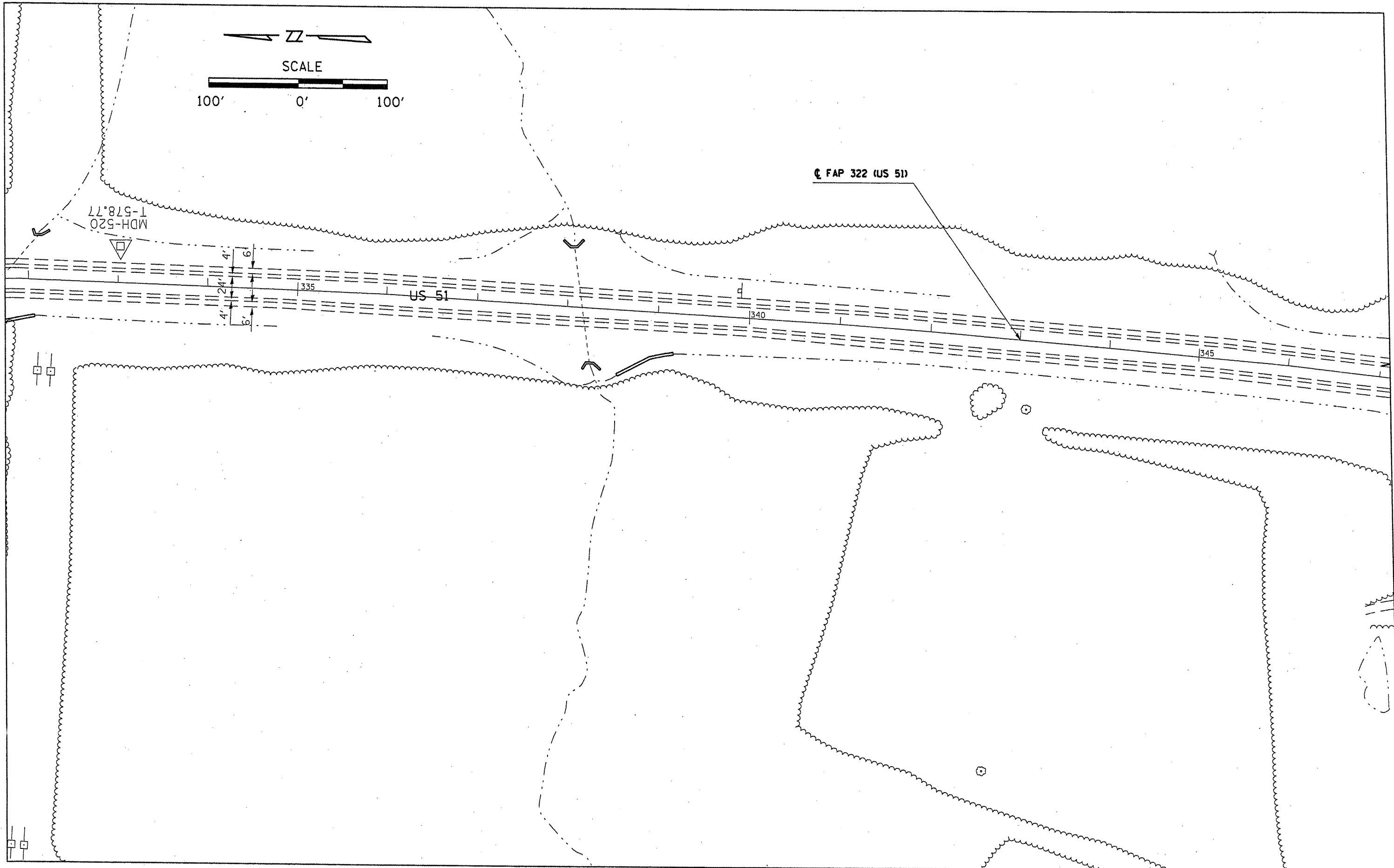
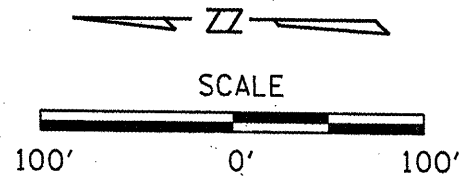
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

----- PLAN LAYOUT -----  
 --- STA. 319 ± 50 TO STA. 331 ± 75 ---

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(10:1185:1	JACKSON	28	13

CONTRACT NO. 78145



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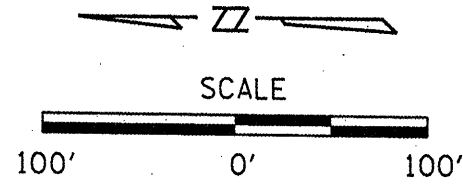
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

--- PLAN LAYOUT ---  
--- STA. 331 ± 75 TO STA. 347 ± 00 ---

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	110-1185:1	JACKSON	28	19

CONTRACT NO. 7R145



FOR MAILBOX TURNOUT.  
SEE SHT. 28 FOR DETAIL.

CASHEN RD.  
RT. STA. 347+60  
WITCH HOLLOW RD. (PEL)  
LT. STA. 347+60  
(SEE RESURFACING SCHEDULE,  
SHT. 9)

Ex. Triple Inlets  
Lt. Sta. 352+42

Ex. Broken Curb and  
Riprap - Lt. Sta. 354+64

**BITUMINOUS CURB AND SHOULDER TO BE REPAIRED  
AT LT. STA. 354+88.**  
SEE SHEET 4 FOR MIXTURE REQUIREMENTS.  
REPAIR AS SHOWN IN PLANS. (SEE SHT. 25)  
THIS WORK AND MATERIAL SHALL BE INCLUDED  
IN THE COST FOR HOT-MIX ASPHALT SHOULDERS.

Ex. Riprap - Lt. Sta. 357+50

☉ FAP 322 (US 51)

THERMOPLASTIC PAVEMENT  
MARKING - LINE 24" 16 FT.

Ex. Pipe Culvert 54"  
Sta. 352+21

Ex. Double Inlets  
Rt. Sta. 356+22

Ex. Pipe Culvert 48"  
Sta. 357+19

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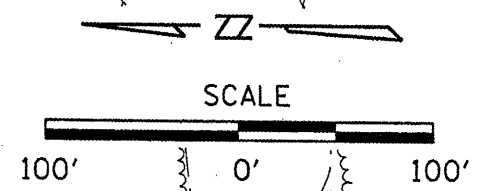
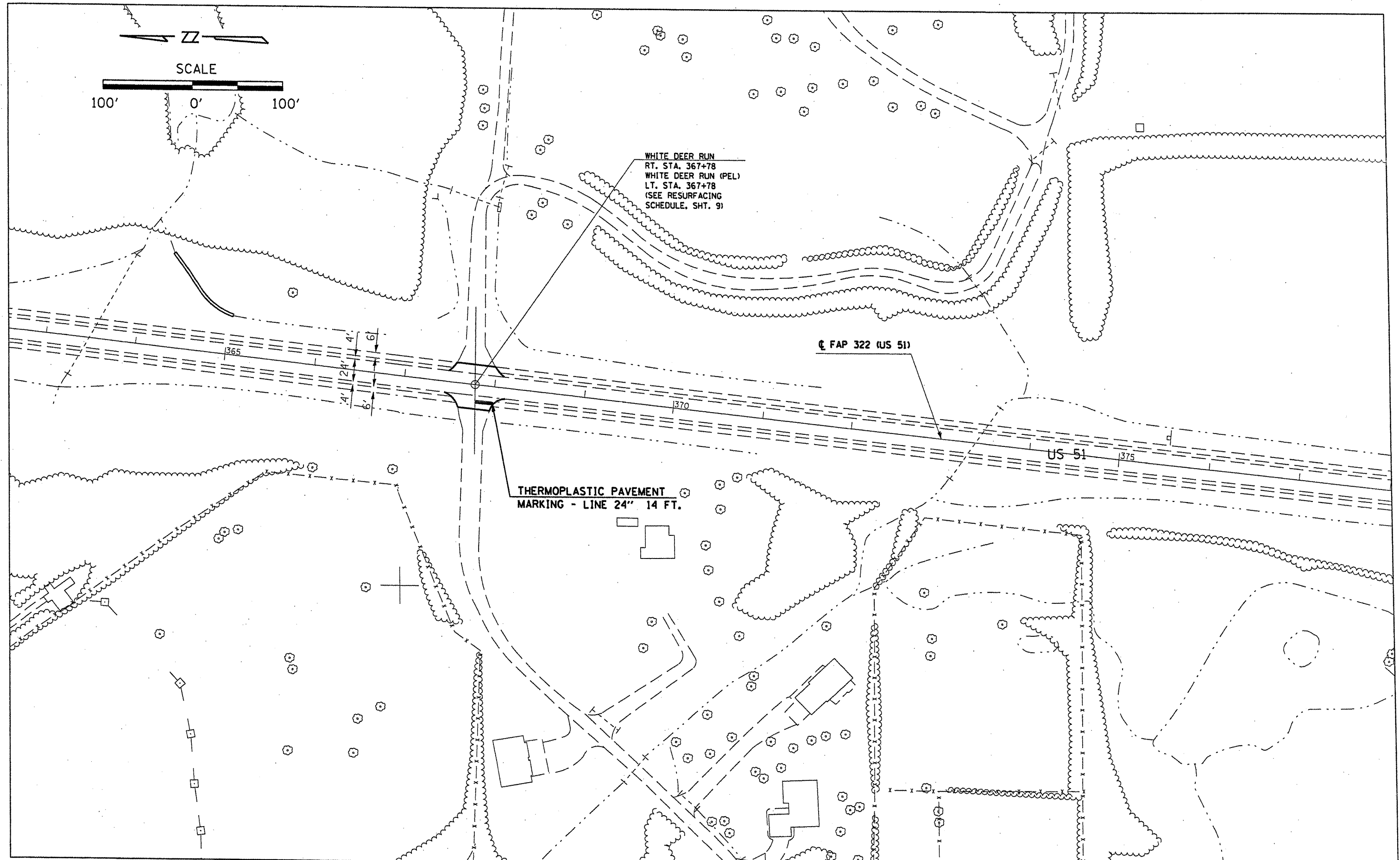
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DRAWN -	REVISD -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN LAYOUT  
--- STA. 347+00 TO STA. 362+50 ---

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	110-1185-1	JACKSON	28	15

CONTRACT NO. 78146



WHITE DEER RUN  
 RT. STA. 367+78  
 WHITE DEER RUN (PEL)  
 LT. STA. 367+78  
 (SEE RESURFACING  
 SCHEDULE, SHT. 9)

☐ FAP 322 (US 51)

THERMOPLASTIC PAVEMENT  
 MARKING - LINE 24" 14 FT.

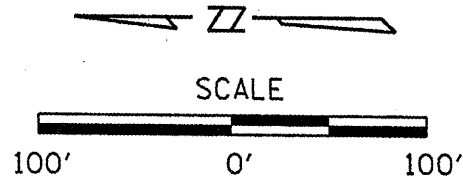
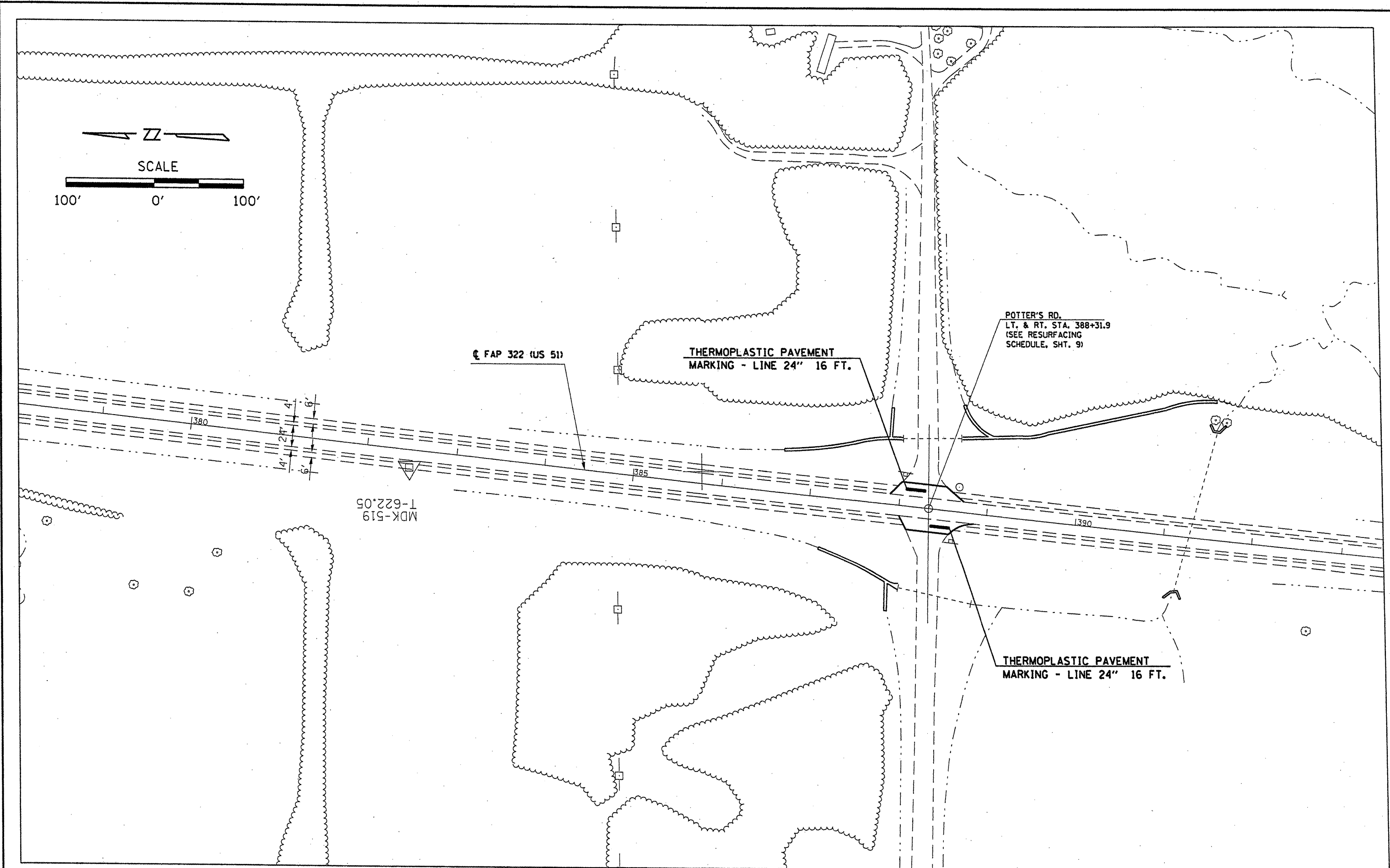
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

----- PLAN LAYOUT -----  
 --- STA. 362 ± 50 TO STA. 378 ± 00. ---

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(10:1185:1	JACKSON	28	16
CONTRACT NO. 78145				





☐ FAP 322 (US 51)

THERMOPLASTIC PAVEMENT  
MARKING - LINE 24" 16 FT.

POTTER'S RD.  
LT. & RT. STA. 388+31.9  
(SEE RESURFACING  
SCHEDULE, SHT. 9)

THERMOPLASTIC PAVEMENT  
MARKING - LINE 24" 16 FT.

MDK-519  
T-622.05

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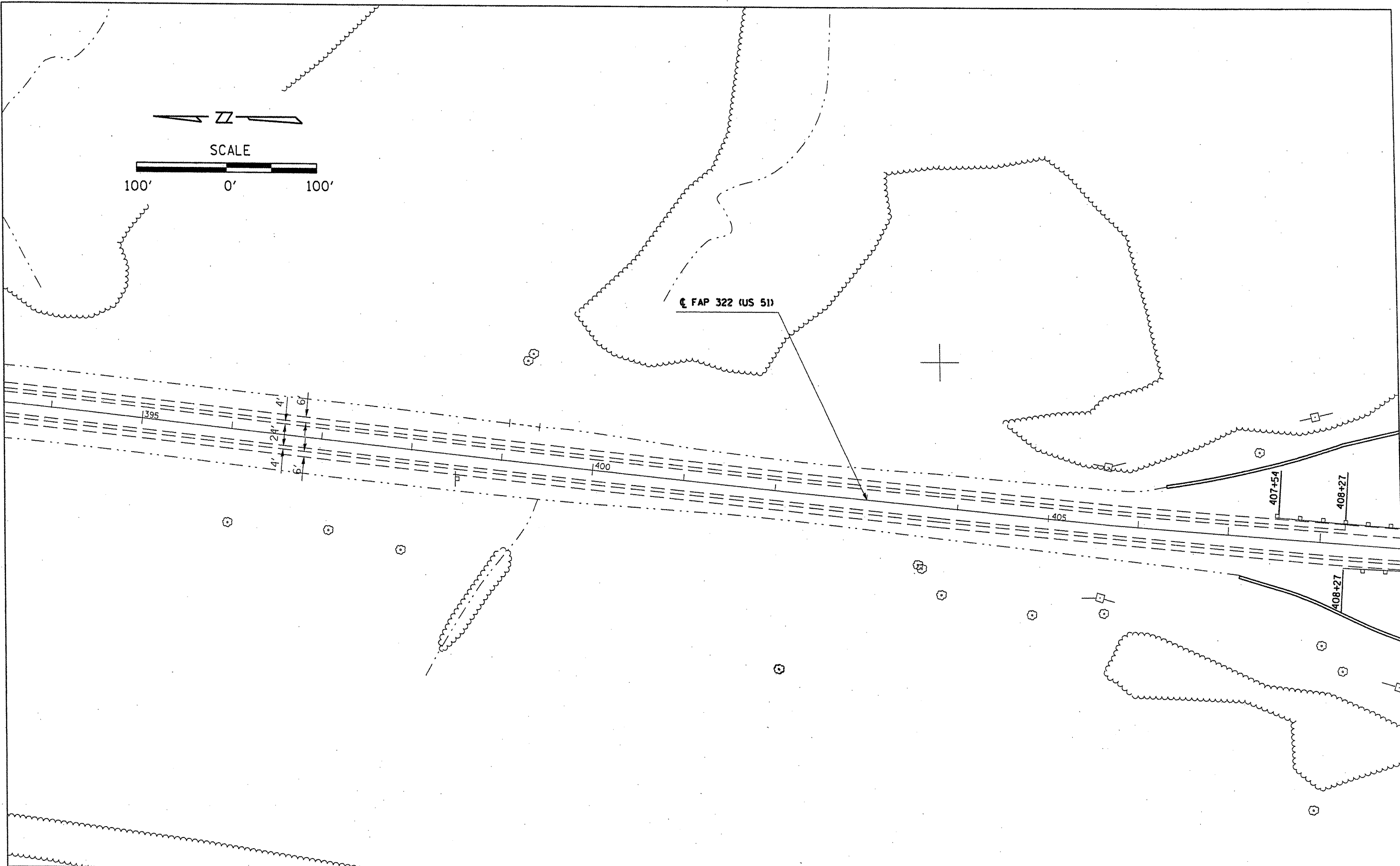
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN LAYOUT  
STA. 378 ± 00 TO STA. 393 ± 50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	110:1185:1	JACKSON	28	17

CONTRACT NO. 78146



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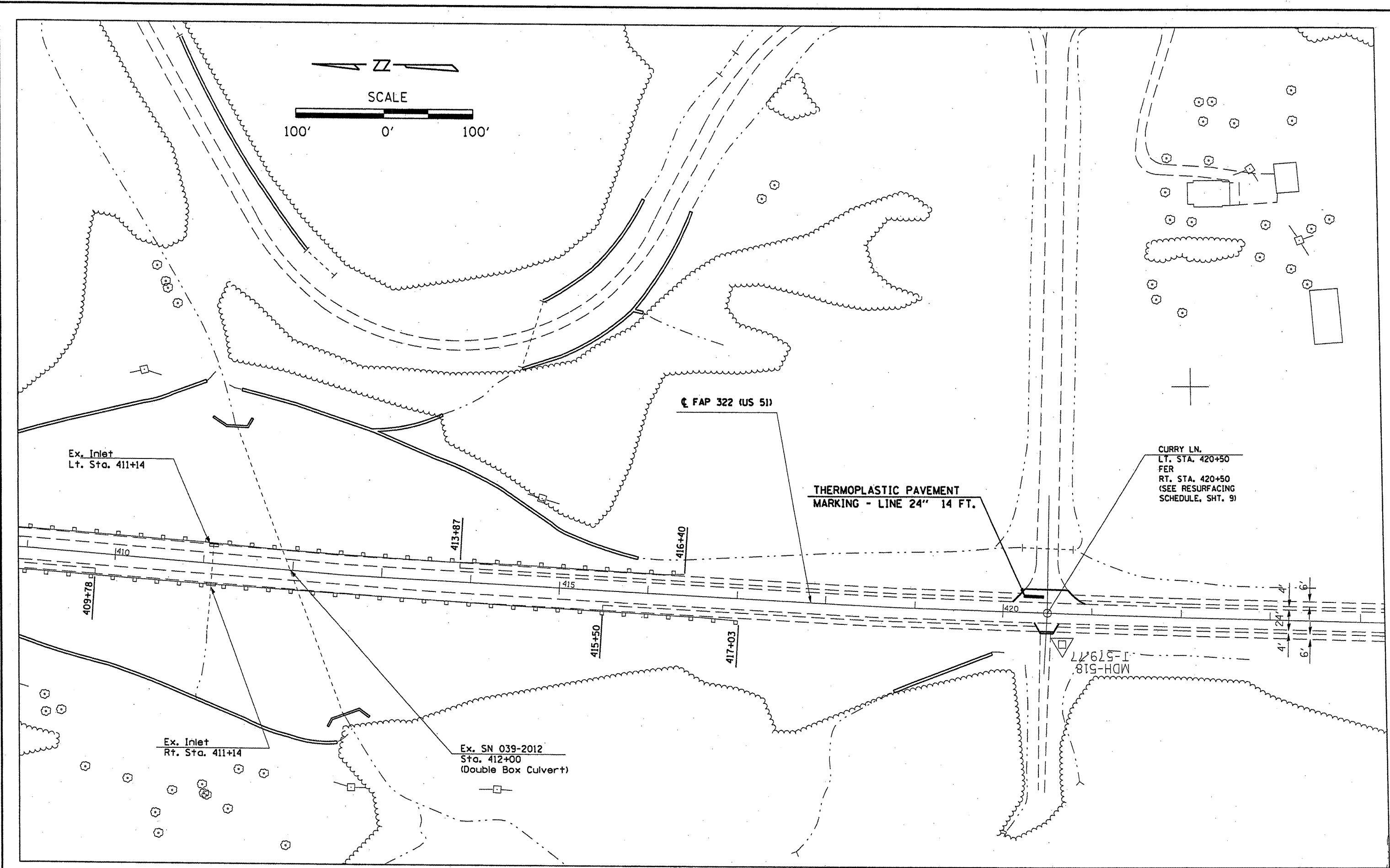
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN LAYOUT**  
 STA. 393 ± 50 TO STA. 409 ± 00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	110:1185-1	JACKSON	28	18

CONTRACT NO. 78145



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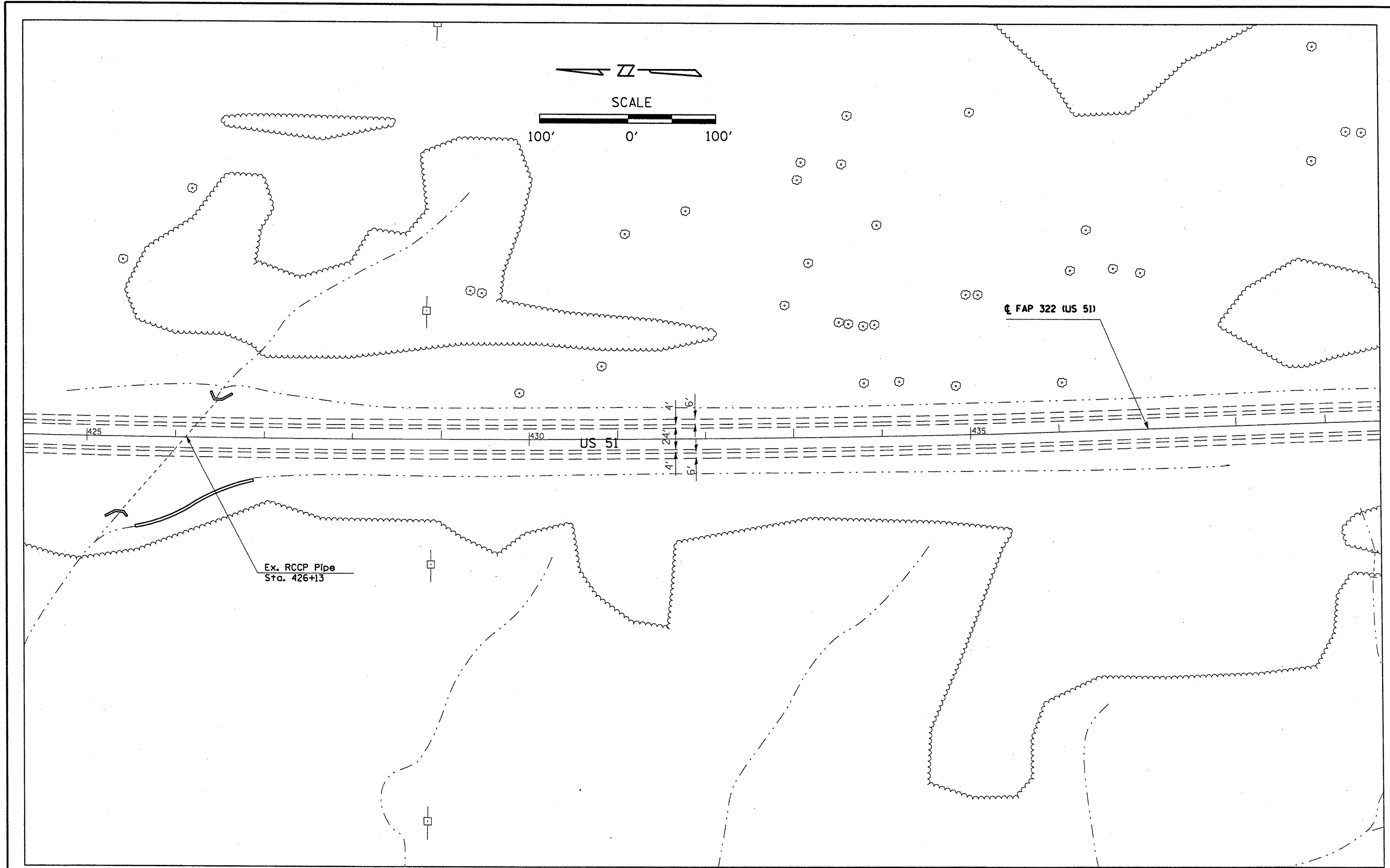
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CHECKED -	---	REVISED -	-----

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN LAYOUT**  
 STA. 409+00 TO STA. 424+25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	10:118:1	JACKSON	28	19

CONTRACT NO. 78145



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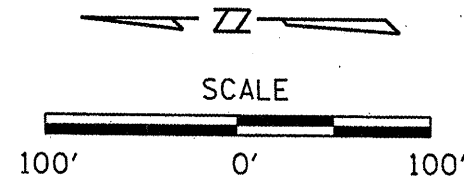
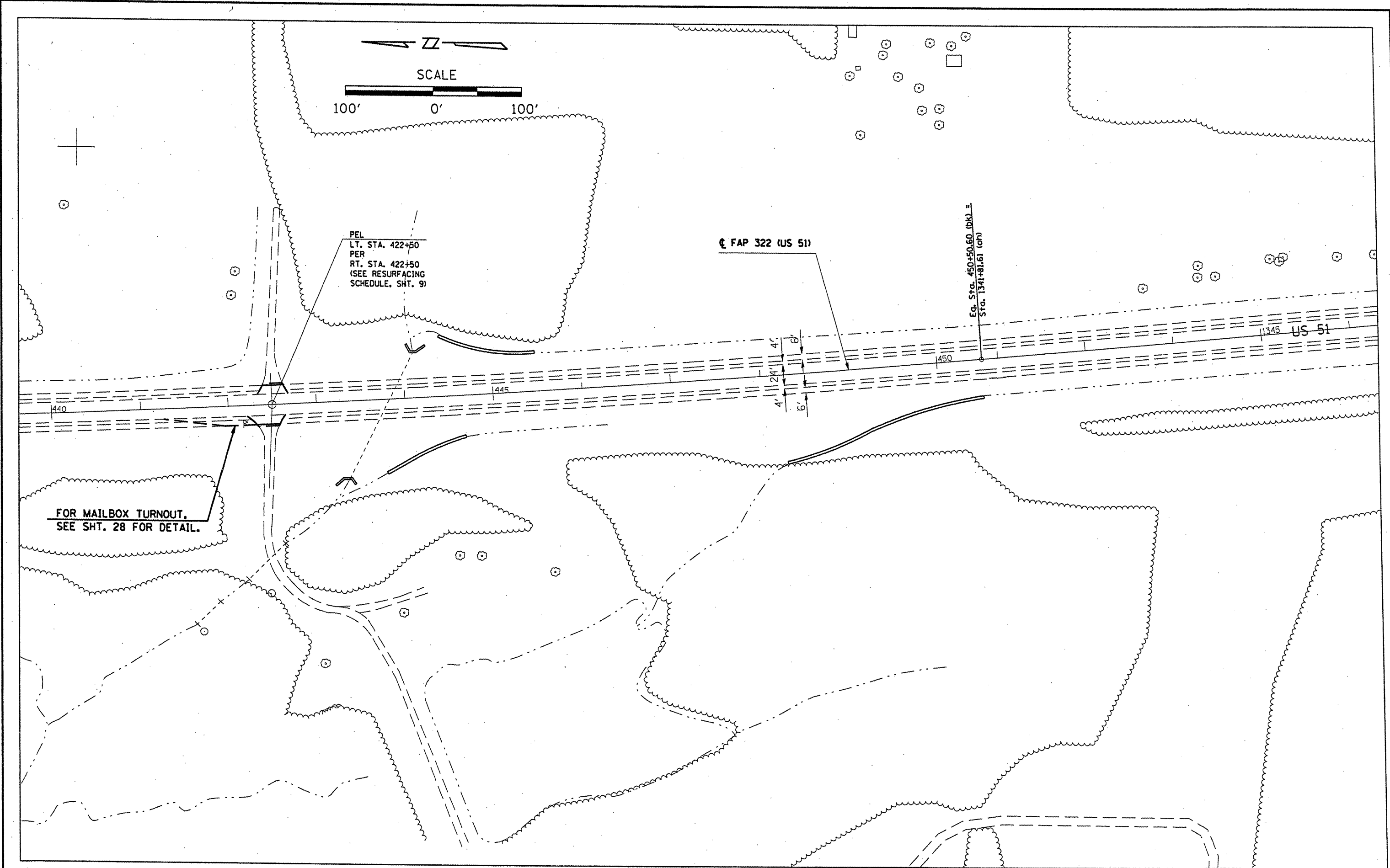
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DESIGNED	-	REVISED	-
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CHECKED	-	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

----- **PLAN LAYOUT** -----  
 STA. 424 ± 25 TO STA. 4439 ± 75  
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	110-1185-1	JACKSON	28	20
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78145	



PEL  
 LT. STA. 422+50  
 PER  
 RT. STA. 422+50  
 (SEE RESURFACING  
 SCHEDULE, SHT. 9)

☉ FAP 322 (US 51)

Eq. Stg. 450+50.60 (DK) =  
 Stg. 1341+81.61 (CR)

FOR MAILBOX TURNOUT.  
 SEE SHT. 28 FOR DETAIL.

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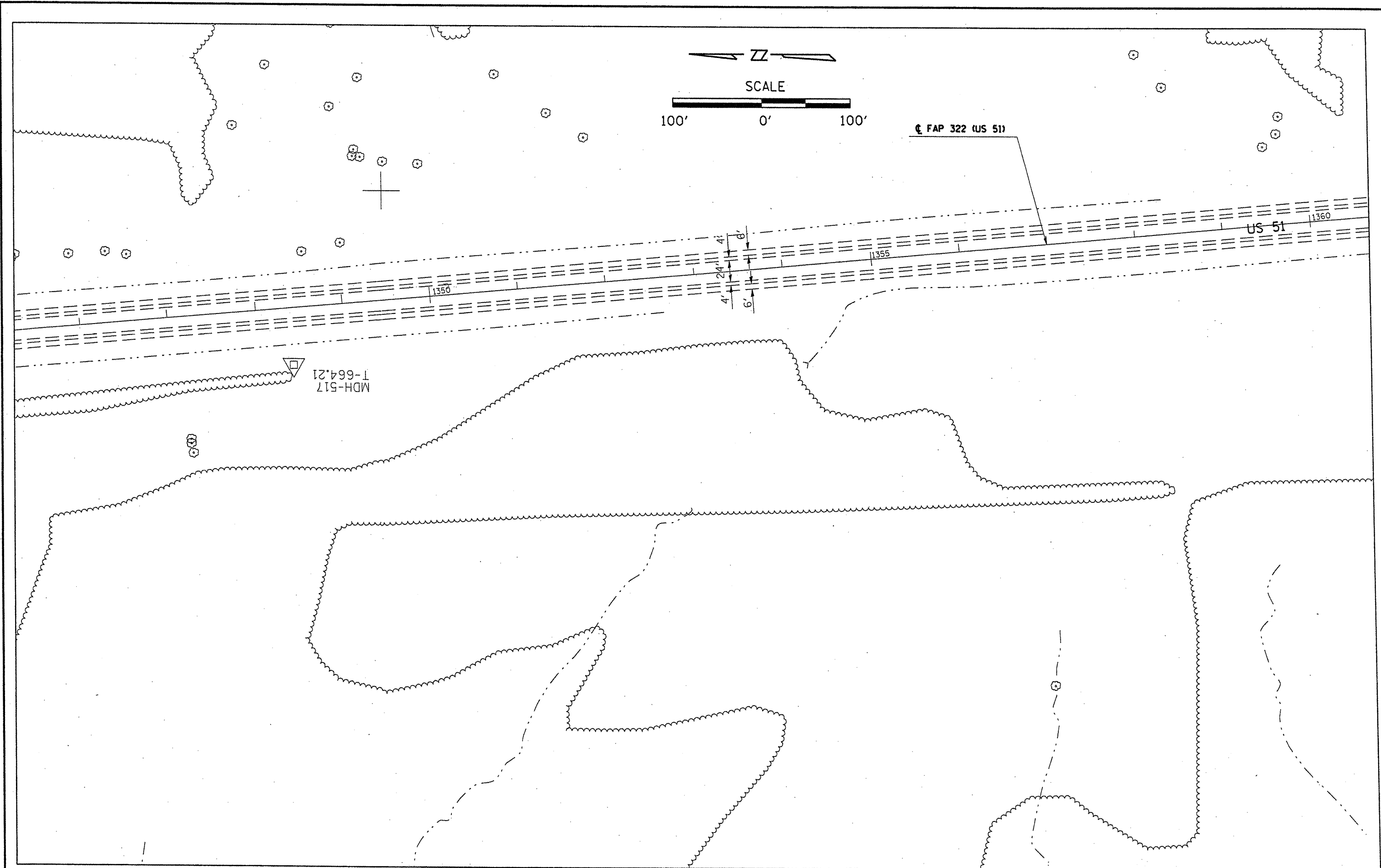
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN LAYOUT  
 STA. 439 ± 75 TO STA. 1346 ± 50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	110:1185:1	JACKSON	28	21

CONTRACT NO. 78145



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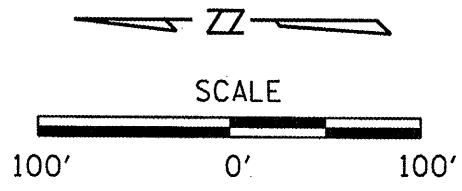
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN LAYOUT  
 STA. 1346 ± 50 TO STA. 1360 ± 75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	110:1185:1	JACKSON	28	22

CONTRACT NO. 78145



HARTLINE RD. (STONE  
CREEK ENTRANCE)  
LT. STA. 1361+58.12  
FER  
RT. STA. 1361+58.12  
(SEE RESURFACING  
SCHEDULE, SHT. 9)

**THERMOPLASTIC PAVEMENT  
MARKING - LINE 24" 16 FT.**

CL FAP 322 (US 51)

PAVED DITCH

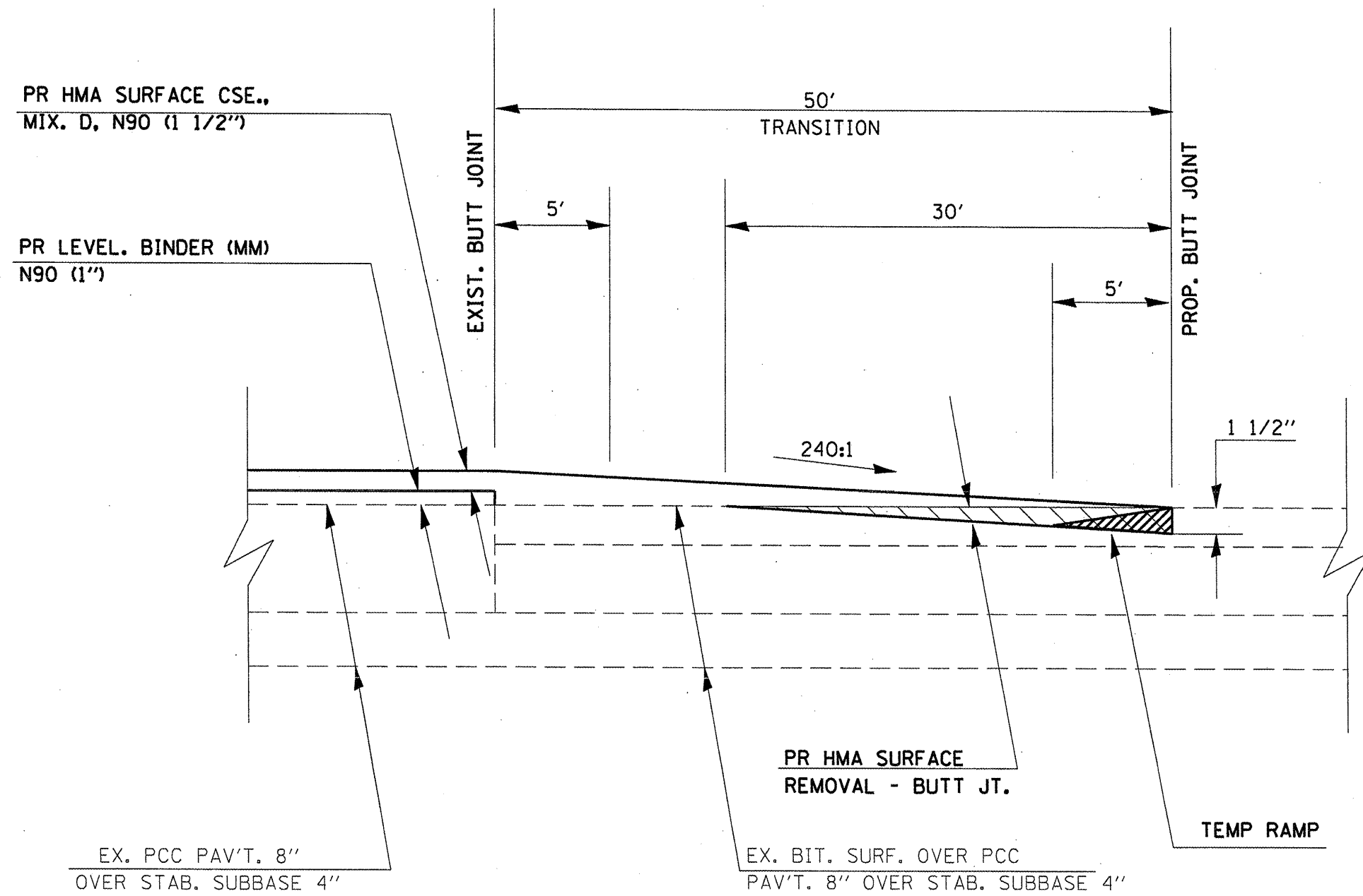
US 51

**PROP. PROJECT ENDS  
STA. 1375+17 (BUTT JOINT)  
SEE DETAIL, SHT. 24.**

50'  
TRANS.

FILE NAME *	USER NAME = mcoardkr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN LAYOUT</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 1/5/2018	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

DETAIL FOR HMA SURFACE REMOVAL - BUTT JOINT  
AT BEGINNING AND END OF PROJECT



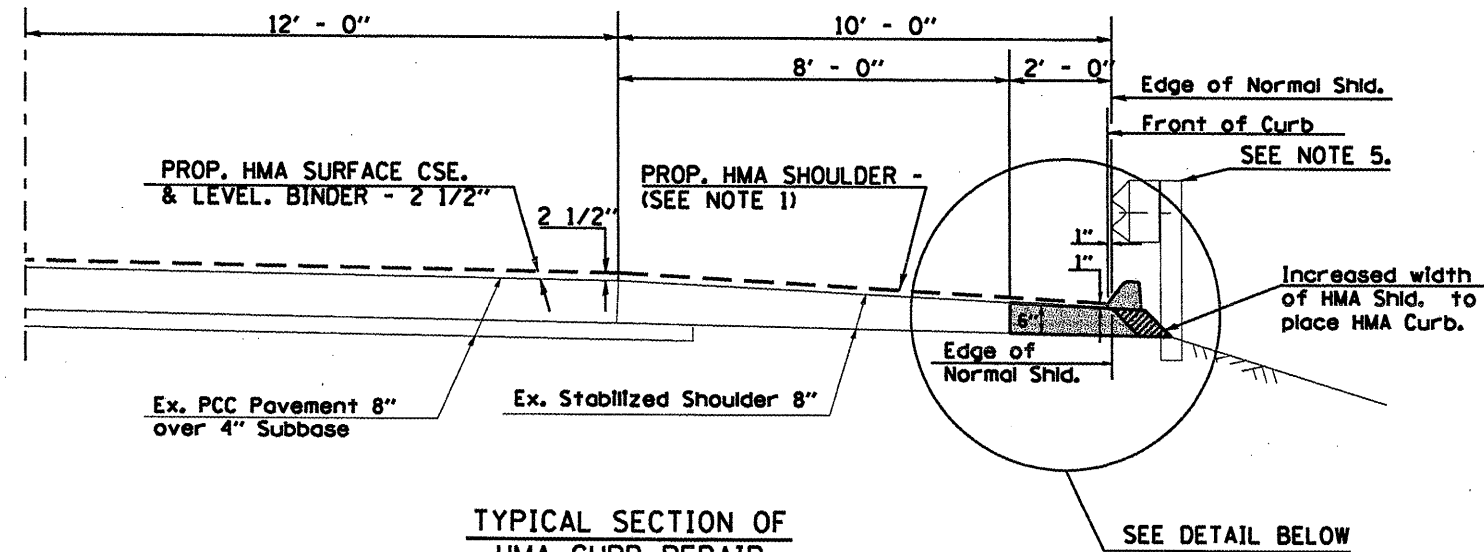
TO BE USED:  
STA. 293+52  
STA. 1375+17

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		CHECKED -	REVISED -					CONTRACT NO. 78145				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



## DETAILS FOR HOT-MIX ASPHALT CURB AND SHOULDER REPAIR

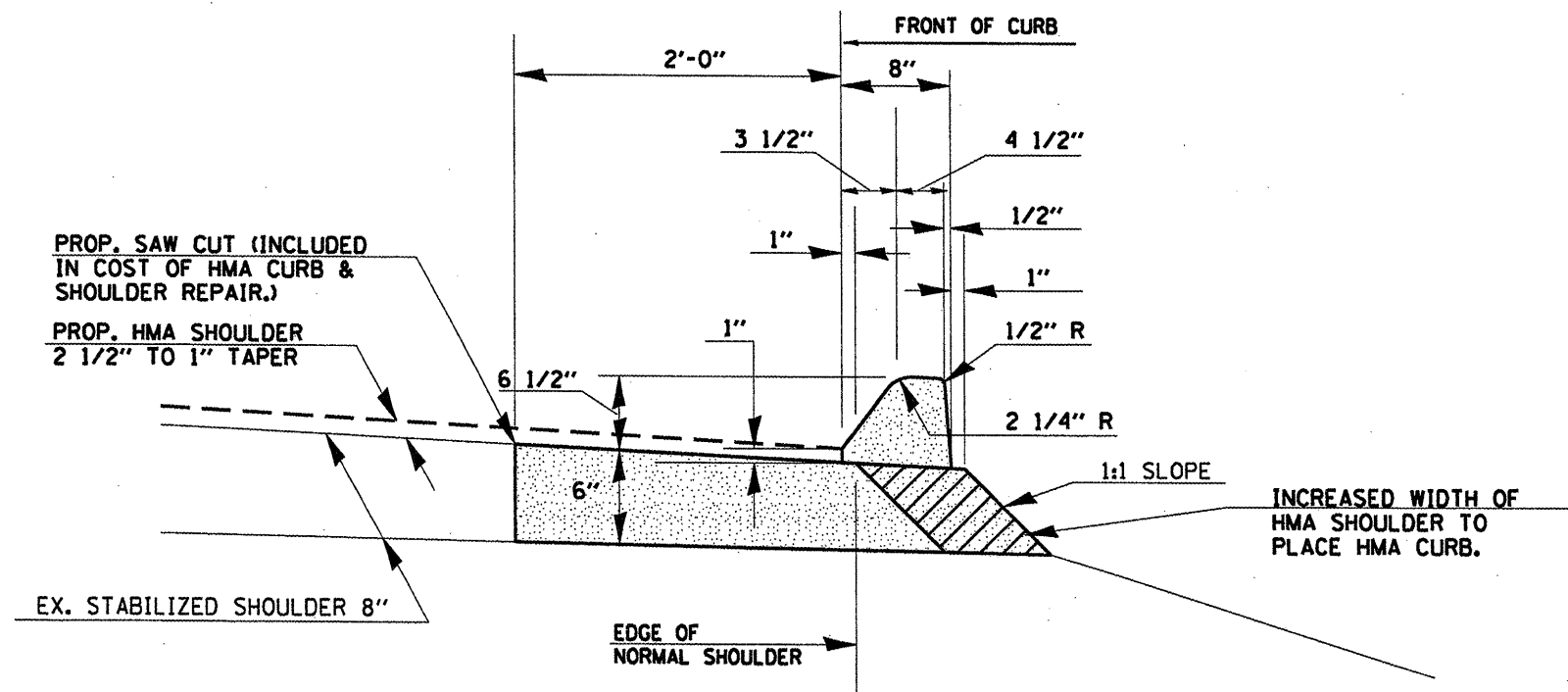
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(US 51)



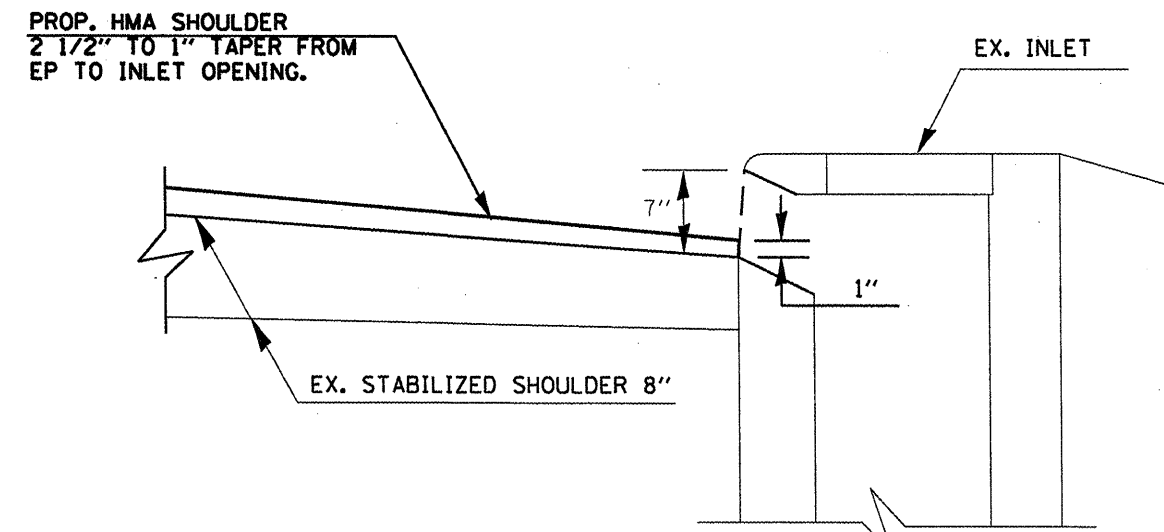
**TYPICAL SECTION OF  
HMA CURB REPAIR**

### DETAIL NOTES

1. THE LOCATION OF THE HMA SHOULDER AND CURB REPAIR IS AT LT. STA. 354+88 AND AS SHOWN ON THE PLANS.
2. THE CURB SHALL BE CONSTRUCTED WITH A MECHANICAL CURB LAYING MACHINE OF A TYPE APPROVED BY THE ENGINEER.
3. THE CURB AND SHOULDER REPAIR WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR HMA SHOULDERS, WHICH PRICE SHALL ALSO INCLUDE THE COST OF THE ADDITIONAL HMA SHOULDER UNDER THE CURB AND THE SAW CUT. THE HOT-MIX ASPHALT CURB AND SHOULDER MIXTURE FOR THE REPAIR LOCATION SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N70. SEE MIXTURE REQUIREMENTS, SHT. 4, FOR FURTHER MIXTURE INFORMATION.
4. THE CONSTRUCTION OF THE CURB AND SHOULDER REPAIR WILL BE STAGED SO THE NEW CURB AND SHOULDER ARE CONSTRUCTED FIRST, THEN THE PRIMING AND RESURFACING OF THE EXISTING SHOULDER WILL BE DONE.
5. EXISTING GUARDRAIL AND POST IN AREA OF CURB REPAIR WILL BE REMOVED DURING REPAIR WORK AND REERECTED AFTER WORK IS COMPLETED. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL.



**DETAIL SECTION OF  
HMA CURB AND SHOULDER REPAIR**



**DETAIL SECTION OF  
SHOULDER SURFACING AT  
EXISTING INLETS**

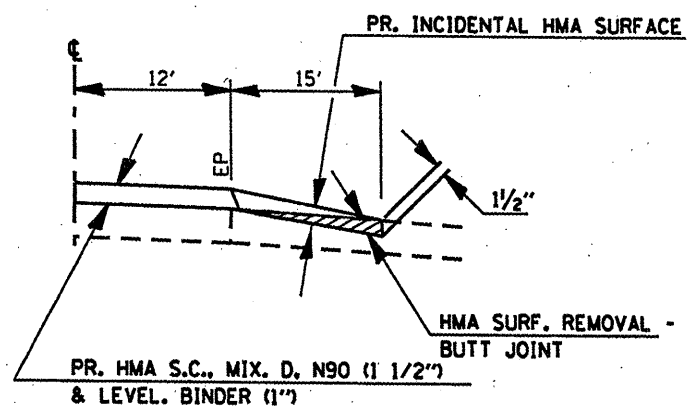
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

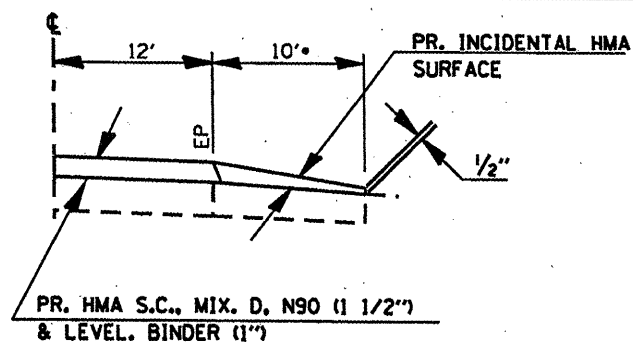
<b>AND CURB REPAIR</b>			
<b>AND STRUCTURES</b>			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P.I. RTE. 322	SECTION 110-1185-1	COUNTY JACKSON	TOTAL SHEETS 28	SHEET NO. 25
CONTRACT NO. 78145				
ILLINOIS FED. AID PROJECT				

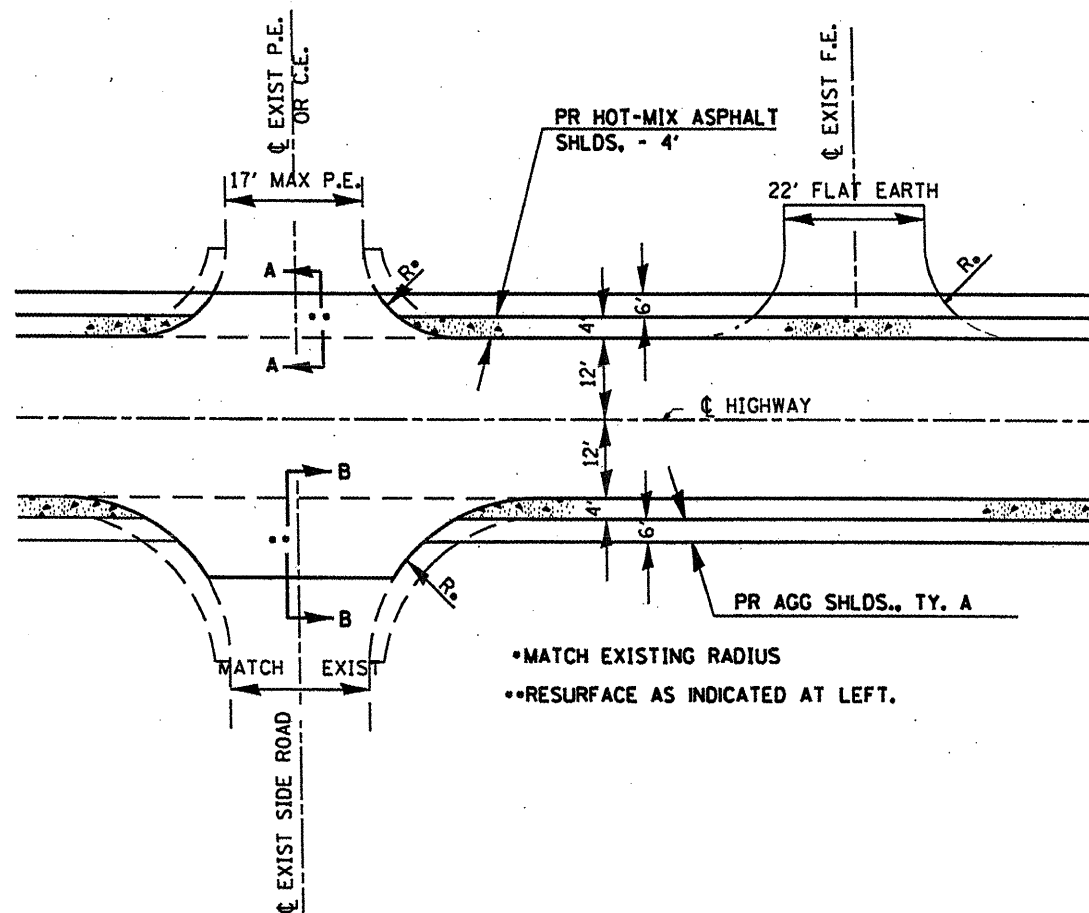
SIDEROAD AND ENTRANCE DETAILS



SIDE ROAD SEC. B-B  
EX. BIT. OR CONC. SURFACE

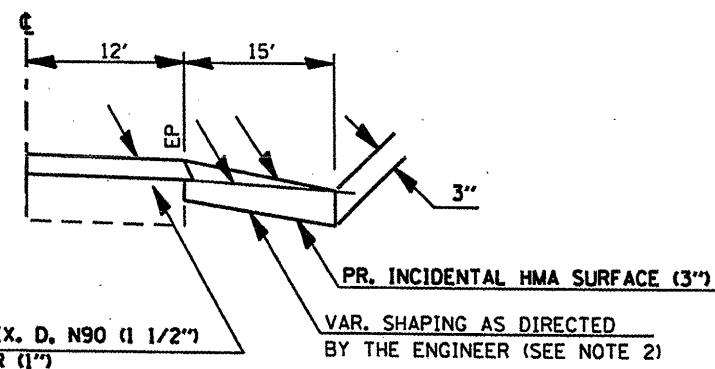


PE OR CE SEC. A-A  
EX. BIT. OR CONC. SURFACE  
•OR END OF BIT. APRON

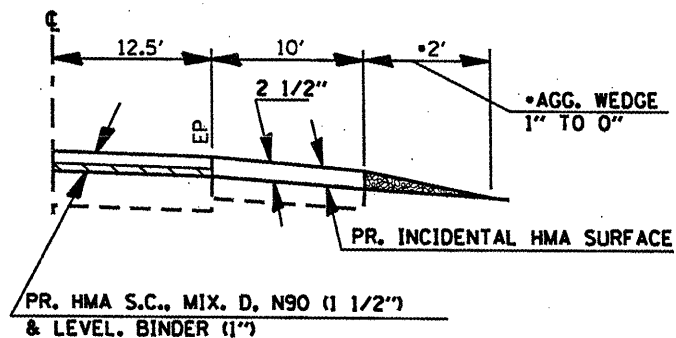


ENTRANCE SCHEDULE

TYPE	NUMBER OF ENTRANCES
P.E.	4
F.E.	2
S.R.	8



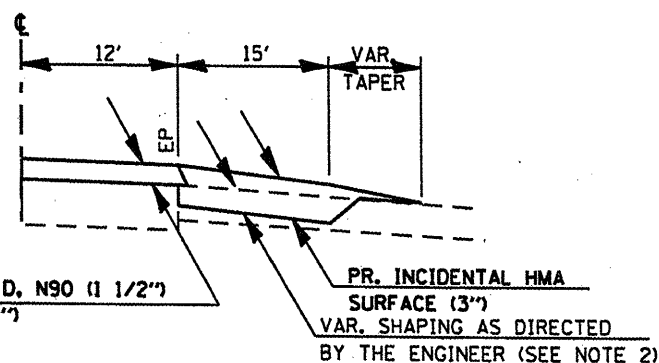
SIDE ROAD SEC. B-B  
EX. AGGREGATE SURFACE  
(SEE NOTE 1)



PE OR FE SEC. A-A  
EX. AGGREGATE SURFACE  
WITH BIT. APRON  
•SEE ENTRANCE SCHEDULE  
FOR QUANTITY.

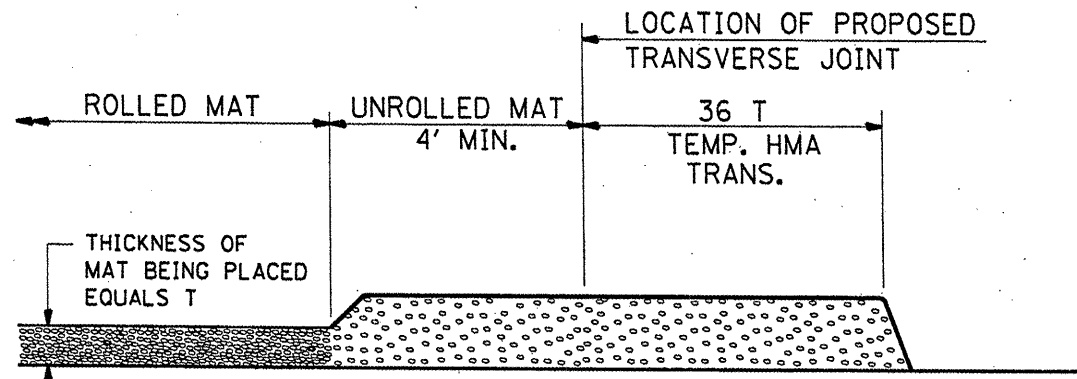
NOTES

- IF EXISTING SUBBASE IS INADEQUATE, AS DETERMINED BY THE ENGINEER, THE SIDE ROADS SHALL BE CORED OUT AND AGGREGATE SUBBASE, TYPE B SHALL BE PLACED FOR BASE. THE COST OF CORING OUT THE SIDE ROAD AND ANY AGGREGATE BASE COURSE SHALL BE PAID FOR AS SPECIFIED IN ART. 109.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. IF EXISTING SUBBASE IS DETERMINED TO BE ADEQUATE, THE PREPARATION OF THE BASE SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 406.19.
- VARIABLE SHAPING IS INCLUDED IN THE COST OF INCIDENTAL HOT-MIX ASPHALT SURFACE.



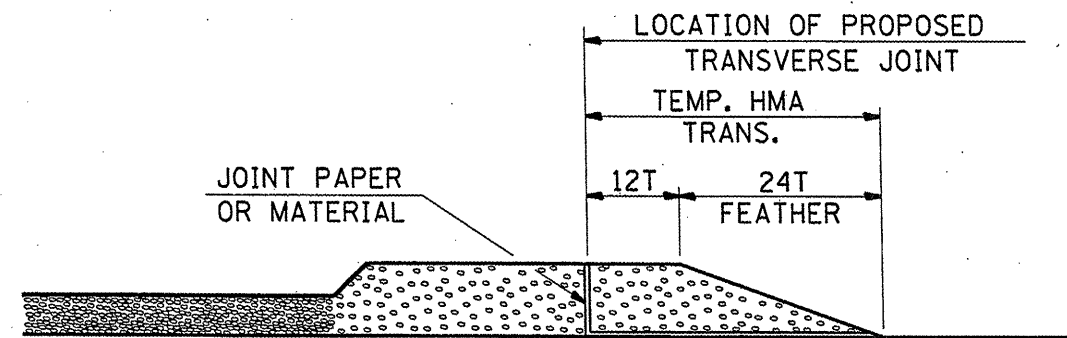
SIDE ROAD SEC. B-B  
EX. OIL & CHIP SURFACE  
(SEE NOTE 1)

# TEMPORARY HOT-MIX ASPHALT TRANSITIONS



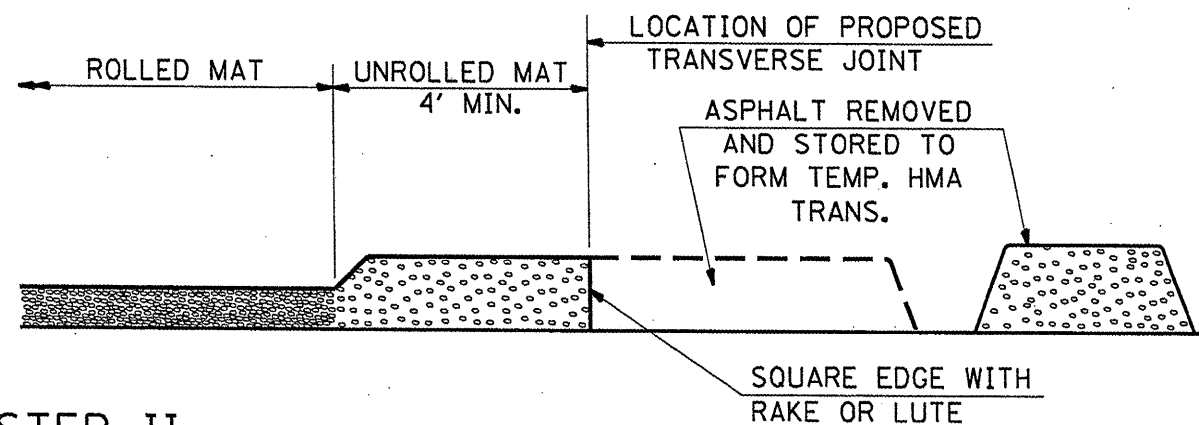
## STEP I

1. PLACE HOT-MIX ASPHALT 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.



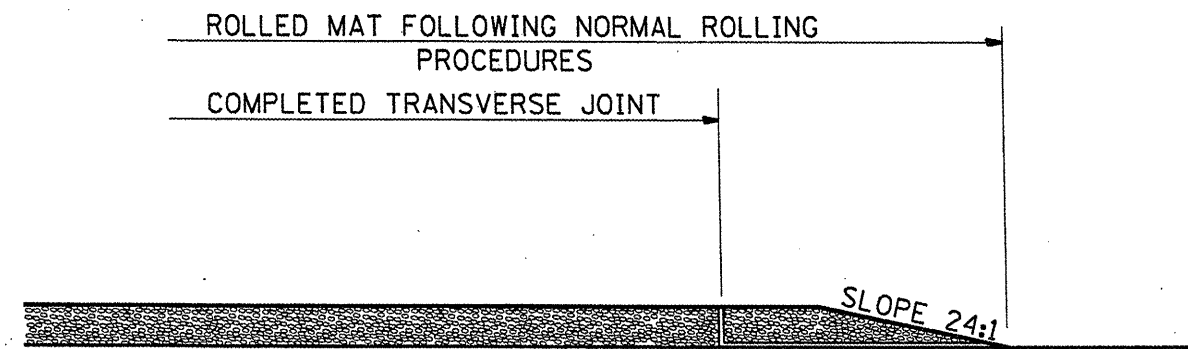
## STEP III

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 HOT-MIX ASPHALT 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 IN ACCORDANCE WITH ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-16-94
REVISED	01-09-07
REVISED	

STD. 9-26

FILE NAME *	USER NAME = mcoordkr	DESIGNED -	REVISED -
cr\p\work\PIWIDOT\MCCORDKR\0146989.dgn	0145-shit-misc.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -

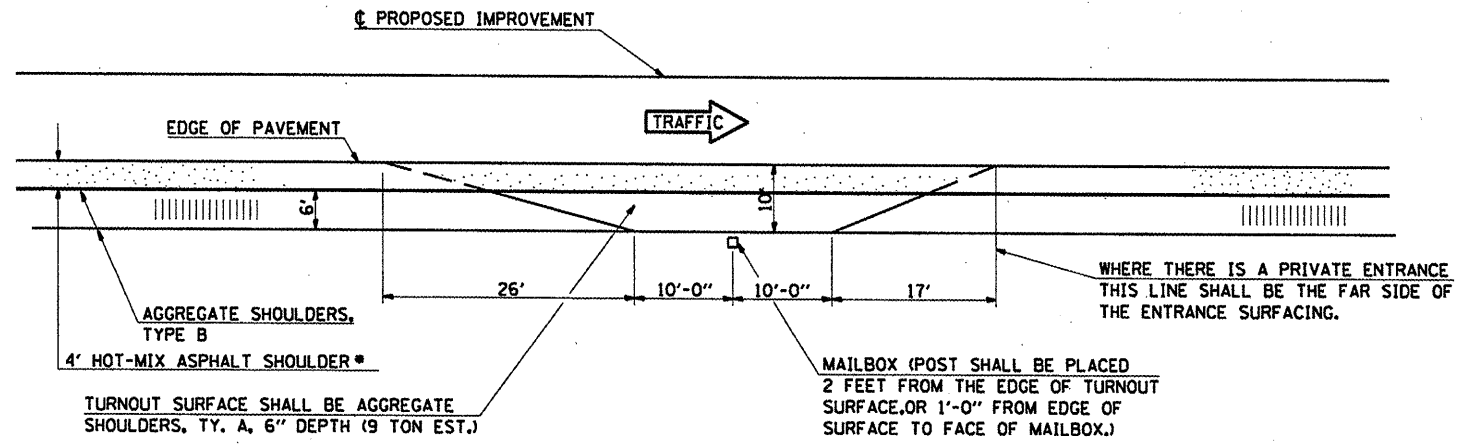
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

-----TEMP. HOT-MIX ASPHALT-----  
-----TRANSITIONS-----

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	110-1185-1	JACKSON	28	27

CONTRACT NO: 78145

# MAILBOX TURNOUT



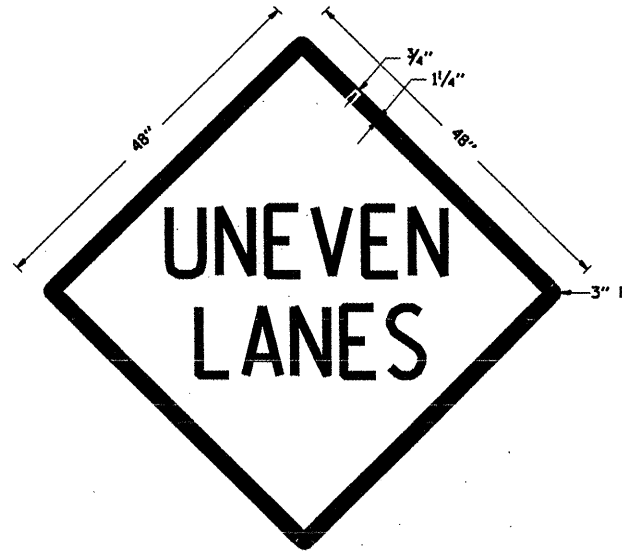
**NOTE:**  
WHERE THERE IS MORE THAN ONE MAILBOX IN A GROUP, THE 10 FOOT DIM. SHALL BE MEASURED FROM THE FIRST AND LAST MAILBOX.

REVISIONS	
REVISION	DATE
1	11-15-09
2	10-19-09
3	11-25-09
4	11-25-09

STD. 9-15

# UNEVEN LANES SIGN

W8-11 (48" x 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	
REVISION	DATE
1	11-15-09
2	10-19-09
3	11-25-09
4	11-25-09

STD. 9-41

FILE NAME =	USER NAME = moardkr	DESIGNED -	REVISD -
ca:\p\work\p\dot\moardkr\d8146989\d97	145-shr-miso.dgn	DRAWN -	REVISD -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISD -
	PLOT DATE = 1/5/2010	DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL: UNEVEN LANES SIGN ;  
MAILBOX TURNOUT**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	11Q-1185-1	JACKSON	28	28
				CONTRACT NO. 79145
ILLINOIS FED. AID PROJECT				