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74049

FAP SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(1Z,17Z)RS-2	CRAWFORD	18	1

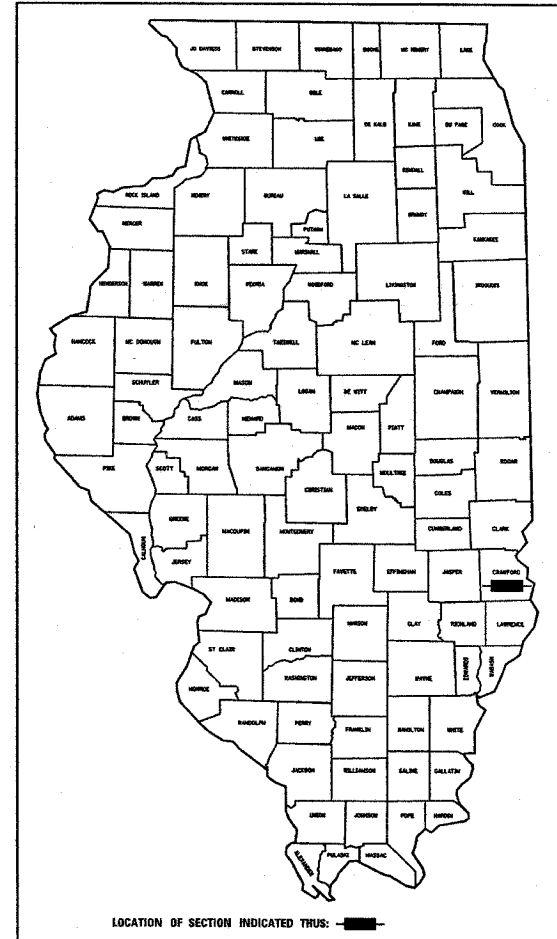
SEE SHEET 2 FOR INDEX OF SHEETS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED  
FEDERAL HIGHWAY PROJECT**

FAP ROUTE 781 (IL 33)  
SECTION (1Z, 17Z)RS-2  
PROJECT NO. F-0781-(026)  
CRAWFORD COUNTY

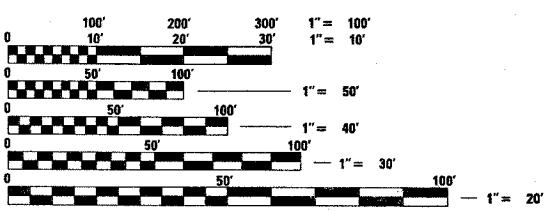
D-97-030-04



LOCATION OF SECTION INDICATED THUS: [shaded box]

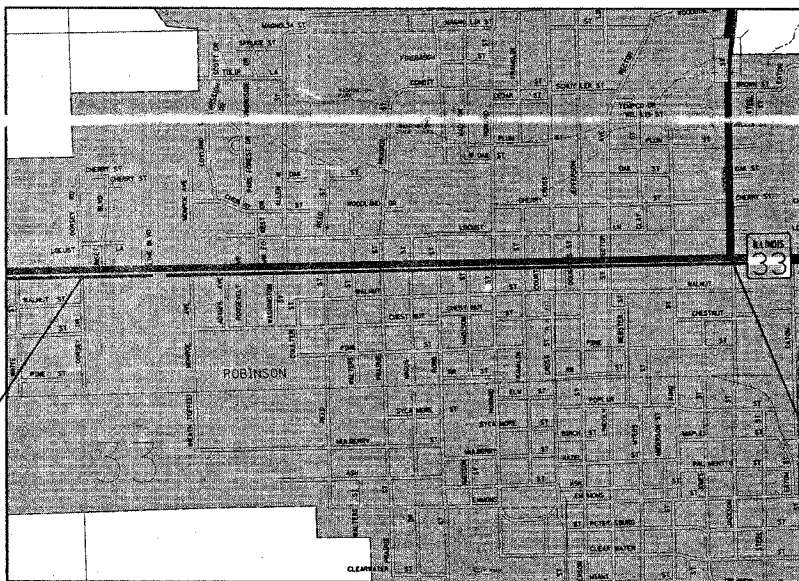
STATION EQUATIONS  
STA. 1191+01.00 (BK) = STA. 0+00.00 (AH)

C-97-067-04



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



FAP ROUTE 781 (IL 33)  
SECTION (1Z, 17Z)RS-2  
CRAWFORD COUNTY  
PROJECT BEGINS  
STA. 1141+07



FAP ROUTE 781 (IL 33)  
SECTION (1Z, 17Z)RS-2  
CRAWFORD COUNTY  
PROJECT ENDS  
STA. 19+47

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Feb 8 20 05  
Christ H. Reed  
DISTRICT ENGINEER

20

ENGINEER OF PROJECT DEVELOPMENT AND IMPLEMENTATION  
March 25 20 05  
Mike Hine  
ENGINEER OF DESIGN AND ENVIRONMENT

March 25 20 05  
Victor Maden  
DIRECTOR, DIVISION OF HIGHWAYS

CONTRACT NO. 74049

ADT (2003) - 12000

GROSS LENGTH = 6941.0 FEET = 1.31 MILES  
NET LENGTH = 6941.0 FEET = 1.31 MILES

SEAL

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THE STATE OF ILLINOIS

PROJECT ENGINEER : BILL STANLEY  
SQUAD LEADER : JENNIFER WENTHE  
DESIGNER : JENNIFER WENTHE  
TELEPHONE : 217/342-3951 EX. 361

TOWNSHIP : ROBINSON

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FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(1Z,17Z)RS-2	CRAWFORD	18	2
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT NO.	

CONTRACT NO. 74049

**GENERAL NOTES**

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2002; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED MARCH 1, 2005, AND THE "SPECIAL PROVISIONS" INCLUDED IN THE PROPOSAL.

THIS PROJECT IS LOCATED ON ILLINOIS ROUTE 33 IN CRAWFORD COUNTY, FROM THE WEST CORPORATE LIMITS TO HOWARD STREET IN ROBINSON. THE WORK INCLUDED IN SECTION (1Z,17Z)RS-2 CONSISTS OF PAVEMENT PATCHING, MILLING, BITUMINOUS RESURFACING, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THE JOB.

THE PERMANENT SURVEY MARKERS AT STATIONS 1163+29, 1167+00, AND 1178+00 SHALL BE PROTECTED AND PRESERVED. IF THE EXISTING SURVEY MARKERS ARE DISTURBED IT IS THE CONTRACTORS RESPONSIBILITY TO HAVE THEM RESET BY A REGISTERED PROFESSIONAL LAND SURVEYOR WITH NO ADDITIONAL COMPENSATION.

THE REMOVAL OF THE EXISTING RESURFACING IN THE GUTTER FLAG SHALL BE (PAID FOR AS) INCLUDED IN THE COST OF BITUMINOUS SURFACE REMOVAL 1 1/2".

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED SURFACE. BITUMINOUS MATERIALS (PRIME COAT), LEVEL BINDER, AND BITUMINOUS SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON MILLED SURFACES.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING - LINE 4" CONSISTS OF 18048 FEET OF YELLOW.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING - LINE 6" CONSISTS OF 840 FEET OF WHITE.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING - LINE 12" CONSISTS OF 303 FEET OF YELLOW.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING - LINE 24" CONSISTS OF 59 FEET OF WHITE.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS CONSISTS OF 528 SQ FT OF WHITE.

EXISTING PAVEMENT SHALL BE PATCHED IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. THE QUANTITY OF PATCHING SHOWN ON THE PLANS IS AN ESTIMATE ONLY. THE FINAL LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT BITUMINOUS PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL BITUMINOUS ITEMS.

THE CONTRACTOR SHALL USE EITHER RC-70 OR AN EMULSIFIED POLYMER PRIME SS-1HP FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT).

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING BITUMINOUS CONCRETE SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.18 OF THE STANDARD SPECIFICATIONS. THE COST SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE TEMPORARY RAMPS.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE:	SURFACE COURSE	CLASS D PATCHING
PG GRADE:	PG 64-22	PG 64-22
RAP%:	10%	25%
DESIGN AIR VOIDS:	4% @ NDESIGN = 90	4% @ NDESIGN = 70
MIXTURE COMPOSITION:	IL-9.5	IL-19.0
FRICTION AGGREGATE:	MIXTURE D	N/A

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

BITUMINOUS MATERIALS (PRIME COAT)	0.10 GAL/SQ YD
AGGREGATE (PRIME COAT)	4 LBS/SQ YD
BITUMINOUS CONCRETE	112 LBS/SQ YD/INCH

**INDEX OF SHEETS**

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5	SCHEDULES
6-17	PLAN SHEETS
18	PAVEMENT MARKING DETAIL

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 18:

STD. NO.	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-01	CLASS C AND D PATCHES
701311-02	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-03	URBAN LANE CLOSURE 2L, 2W UNDIVIDED
701502-01	URBAN LANE CLOSURE 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE
702001-05	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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**GENERAL NOTES  
&  
INDEX OF SHEETS**

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FAP ATEL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(1Z,1Z)RS-2	CRAWFORD	18	3
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	

CONTRACT NO. 74049

80% F&D.  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		URBAN 1000		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3169	3169		
40600300	AGGREGATE (PRIME COAT)	TON	63	63		
40600990	TEMPORARY RAMP	SQ YD	34	34		
44000006	BITUMINOUS SURFACE REMOVAL 1 1/2"	SQ YD	31688	31688		
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	92	92		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3	3		
67100100	MOBILIZATION	L SUM	1	1		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3080	3080		
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	528	528		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18048	18048		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	840	840		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	303	303		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	59	59		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	513	513		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	528	528		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	18048	18048		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	840	840		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	303	303		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	59	59		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	373	373		
X4066428	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N90	TON	2662	2662		

\* SPECIALTY ITEMS

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NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

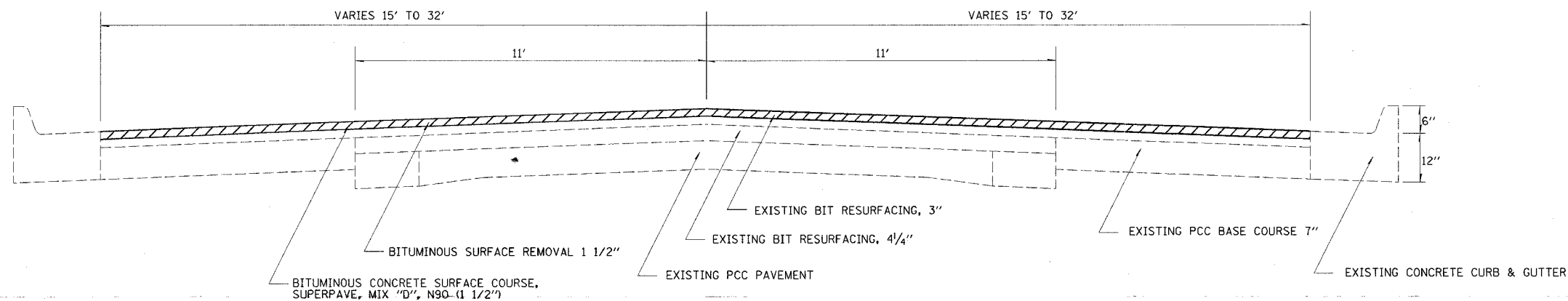
**SUMMARY  
OF  
QUANTITIES**

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DATE

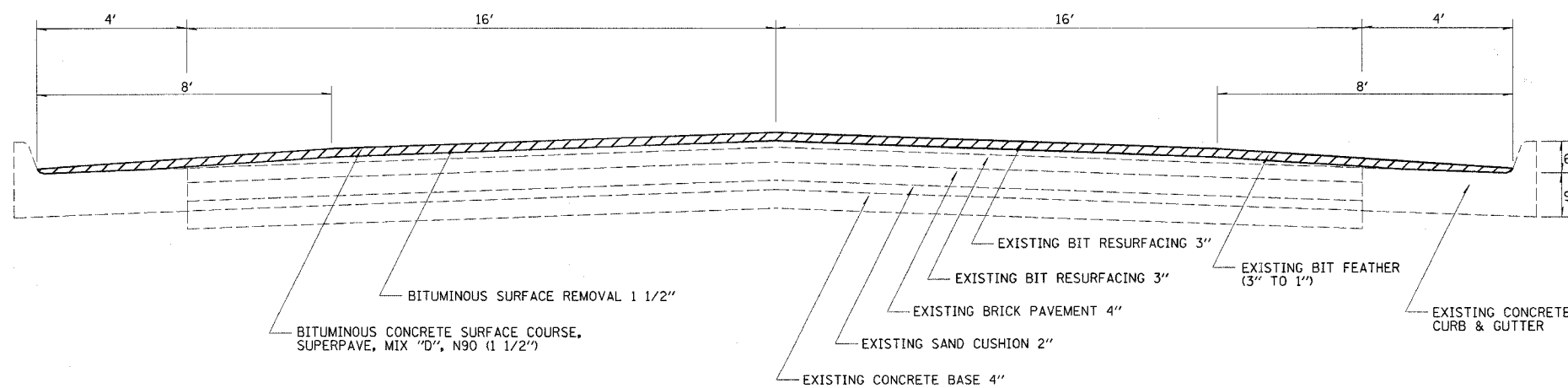
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FAP ATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(1Z,17Z)RS-2	CRAWFORD	18	4
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	
CONTRACT NO. 74049				



STA. 1141+07 TO STA. 1191+01



STA. 0+00 TO STA. 19+47

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**TYPICAL SECTIONS**

SCALE: VERT.  
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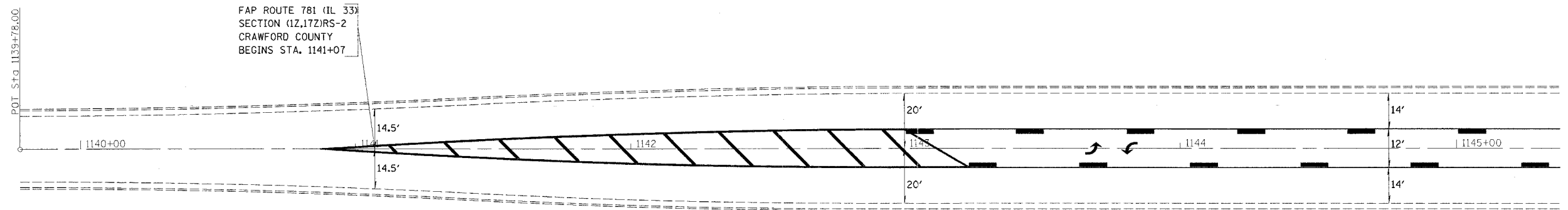
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781	(1Z,17Z)RS-2	CRAWFORD	18	6
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	
CONTRACT NO. 74049				



FAP ROUTE 781 (IL 33)  
SECTION (1Z,17Z)RS-2  
CRAWFORD COUNTY  
BEGINS STA. 1141+07

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STA 1139 + 78 TO  
STA 1145 + 00**

SCALE: VERT.  
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DATE

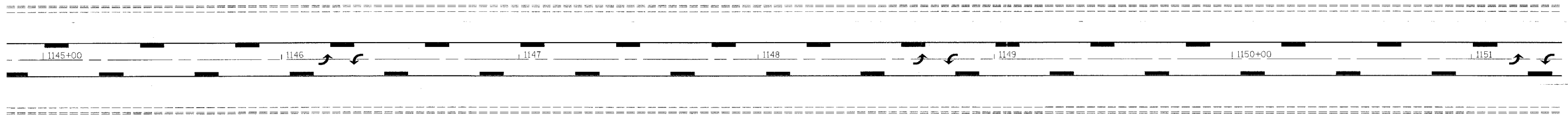
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781	(1Z,17Z)RS-2	CRAWFORD	18	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO.		

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**STA 1145 + 00 TO  
 STA 1151 + 00**

SCALE: VERT.  
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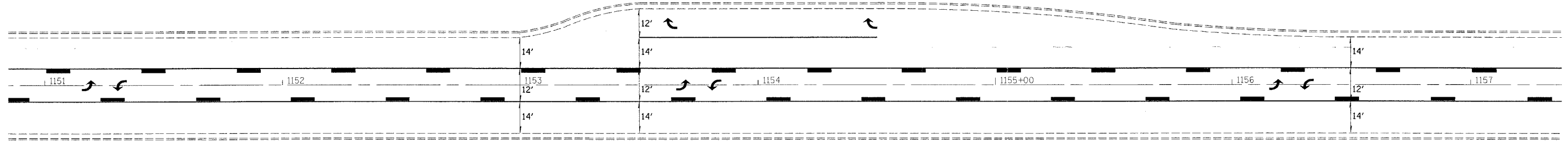
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781	(12,17Z)RS-2	CRAWFORD	18	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO.		

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NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STA 1151 + 00 TO  
STA 1157 + 00**

SCALE: VERT.  
HORIZ.  
DATE

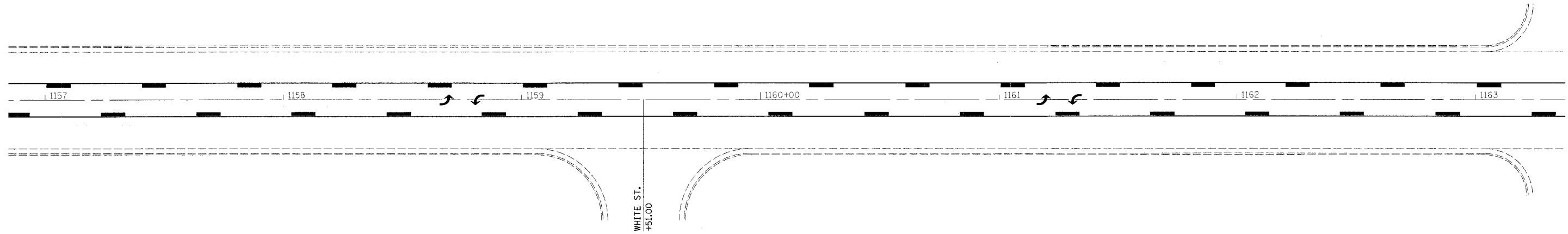
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781	(1Z,1Z)RS-2	CRAWFORD	18	9
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	
CONTRACT NO. 74049				



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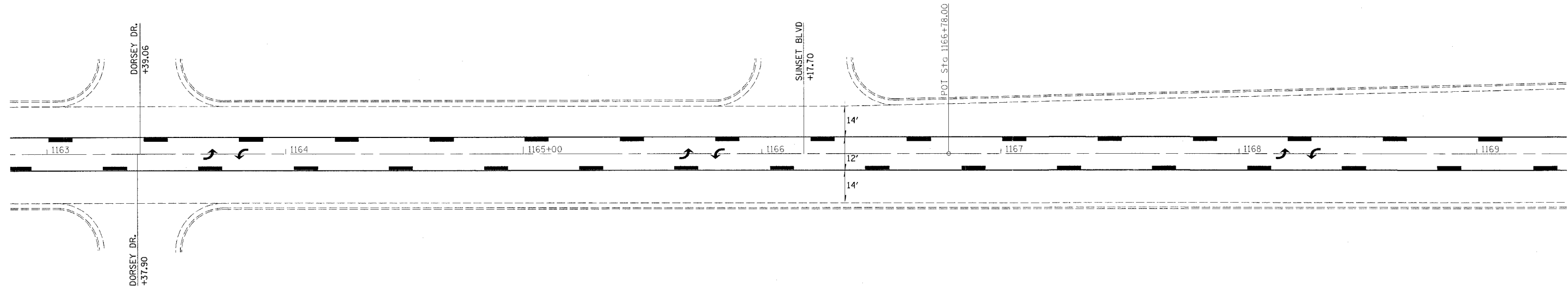
**STA 1157+00 TO  
 STA 1163+00**

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FAP SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(1Z,17Z)RS-2	CRAWFORD	18	10
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	
CONTRACT NO. 74049				



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**STA 1163+00 TO  
 STA 1169+00**

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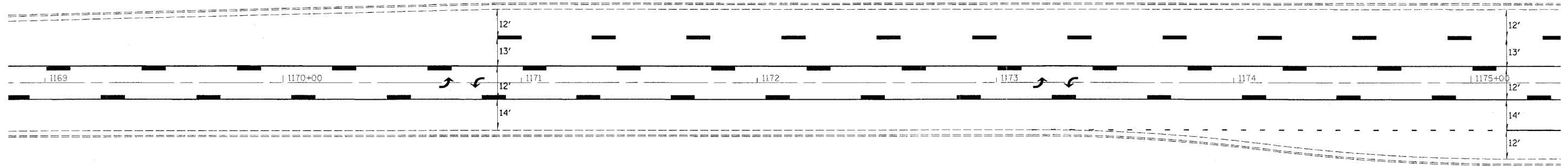
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FAP #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(12,17)RS-2	CRAWFORD	18	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO.		

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**STA 1169 + 00 TO  
STA 1175 + 00**

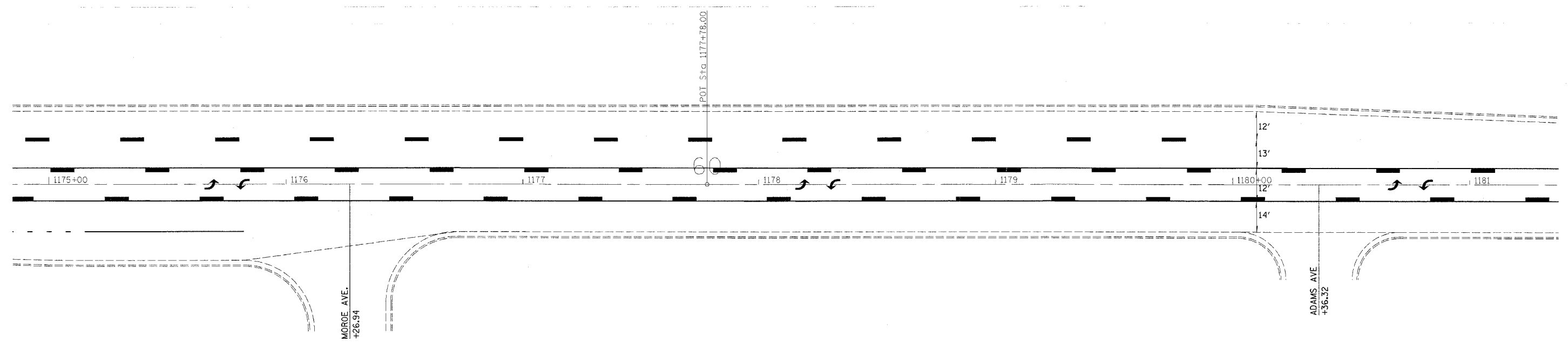
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FAP No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(1Z,1Z)RS-2	CRAWFORD	18	12
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	
CONTRACT NO. 74049				



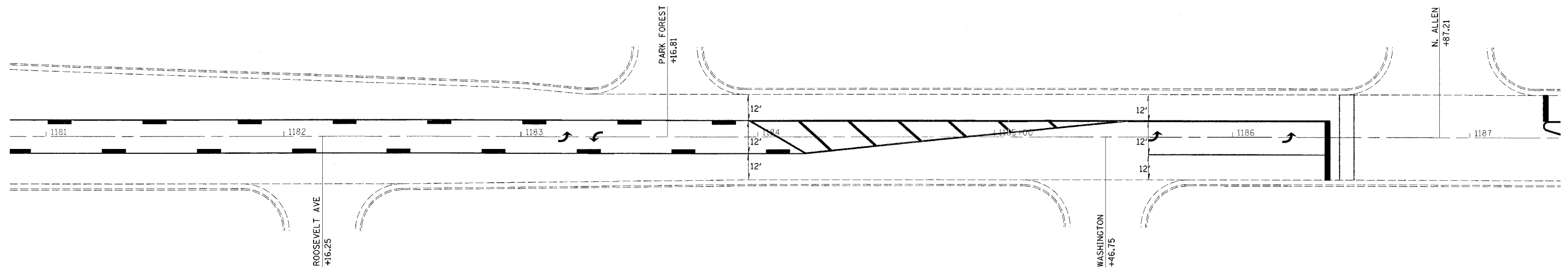
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>STA 1175+00 TO            STA 1181+00</b>

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FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(12,17)RS-2	CRAWFORD	18	13
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT NO.	
CONTRACT NO. 74049				



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**STA 1181 + 00 TO  
STA 1187 + 00**

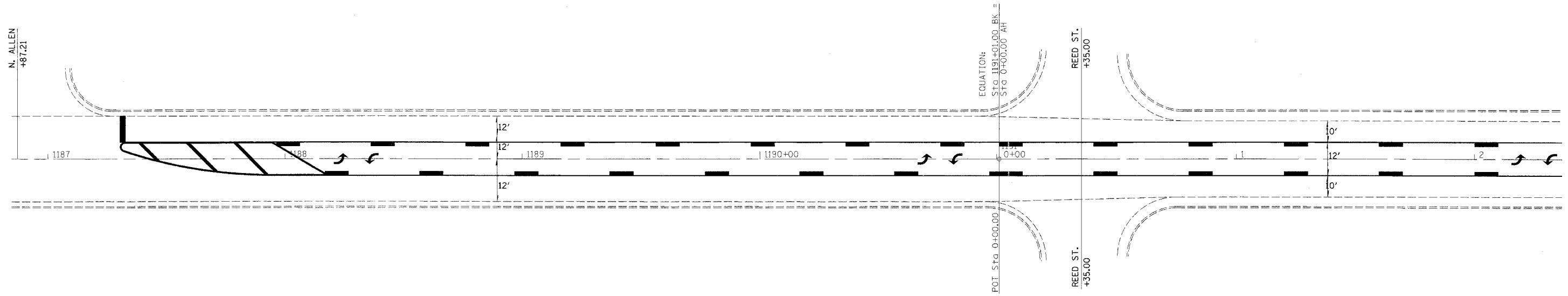
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FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(1Z,17Z)RS-2	CRAWFORD	18	14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO.	CONTRACT NO. 74049	



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**STA 1187+00 TO  
STA 2+00**

SCALE: VERT.  
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DATE

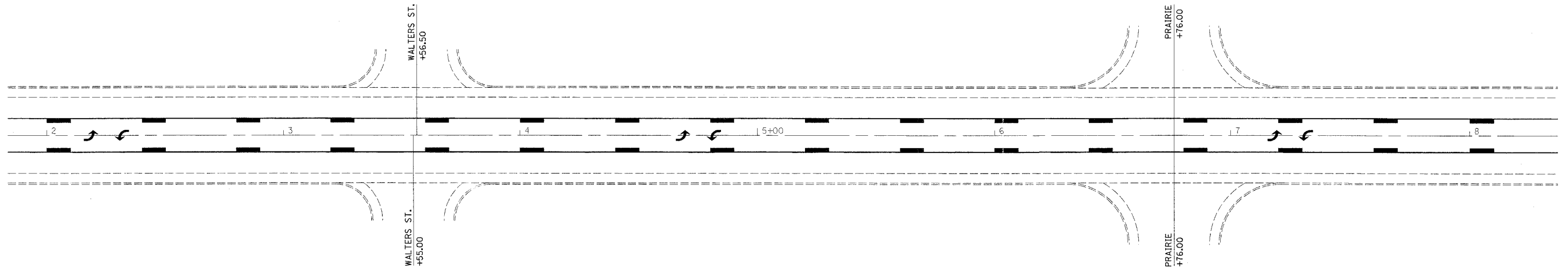
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FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(1Z,17Z)RS-2	CRAWFORD	18	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO.		

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**STA 2+00 TO  
 STA 8+00**

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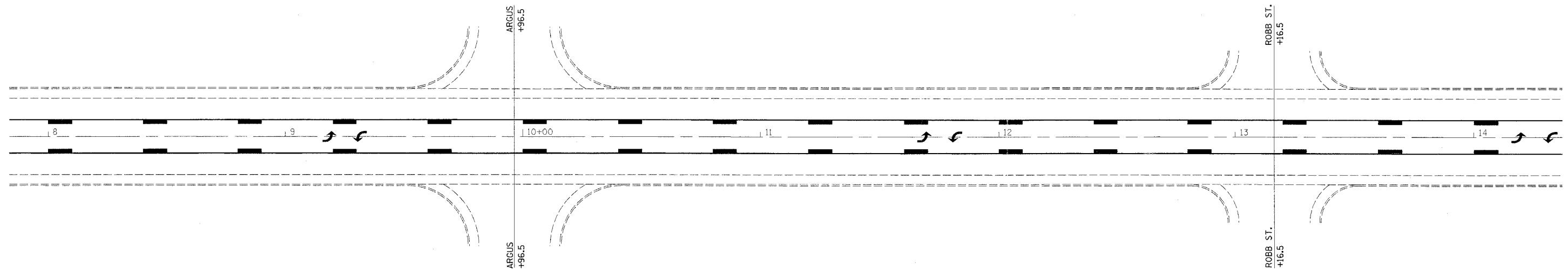
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FAP STL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(12,17)RS-2	CRAWFORD	18	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO.		

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**STA 8 + 00 TO  
 STA 14 + 00**

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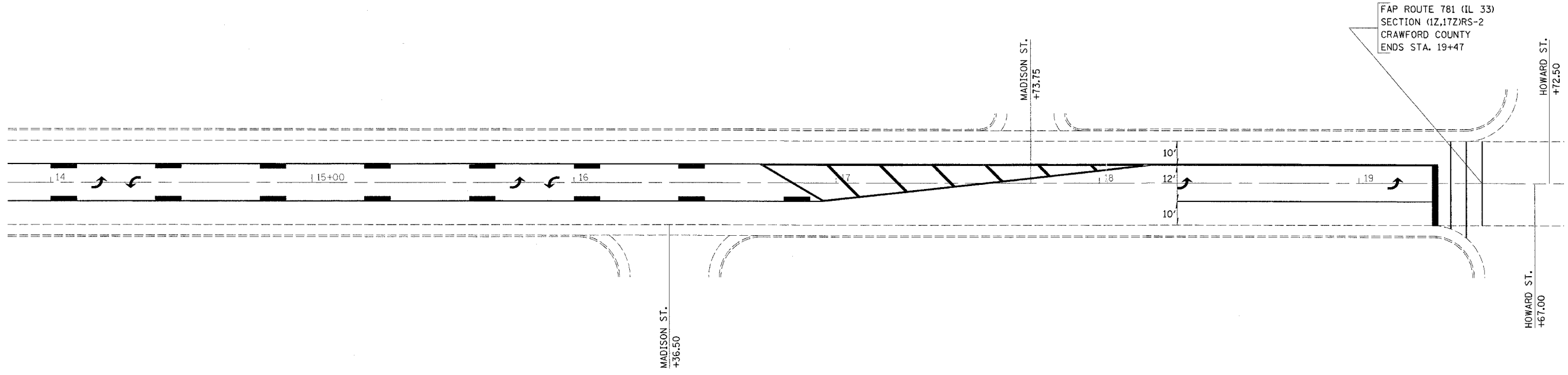


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FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(1Z,17Z)RS-2	CRAWFORD	18	17
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT NO.	

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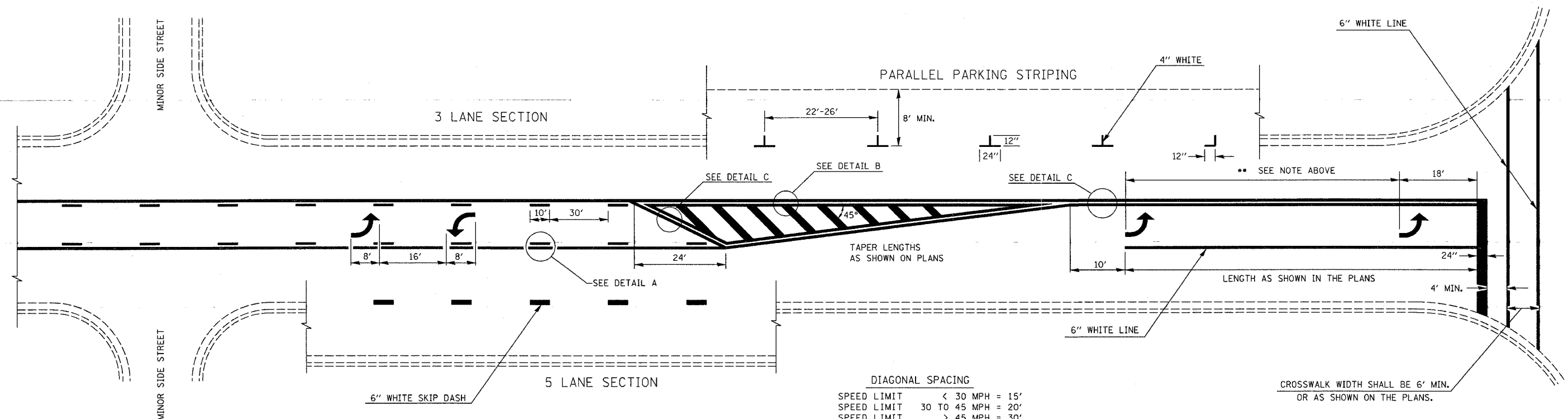
FAP ROUTE 781 (IL 33)  
 SECTION (1Z,17Z)RS-2  
 CRAWFORD COUNTY  
 ENDS STA. 19+47

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p><b>STA 14+00 TO STA 19+78</b></p> <p>SCALE: VERT. HORIZ.</p> <p>DATE</p> <p>DRAWN BY CHECKED BY</p>

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 55 56 57 58 59 60 61 62 63

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	(12,17)RS-2	CRAWFORD	18	18
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT NO.		
CONTRACT NO. 74049				

\*\* PLACE THE FIRST ARROW EVEN WITH THE BEGINNING OF THE TURN BAY.  
 PLACE ANOTHER ARROW 18' BACK FROM THE STOP BAR, IF REQUIRED,  
 ADD ADDITIONAL ARROWS TO MAINTAIN A MAXIMUM OF 80' SPACING.

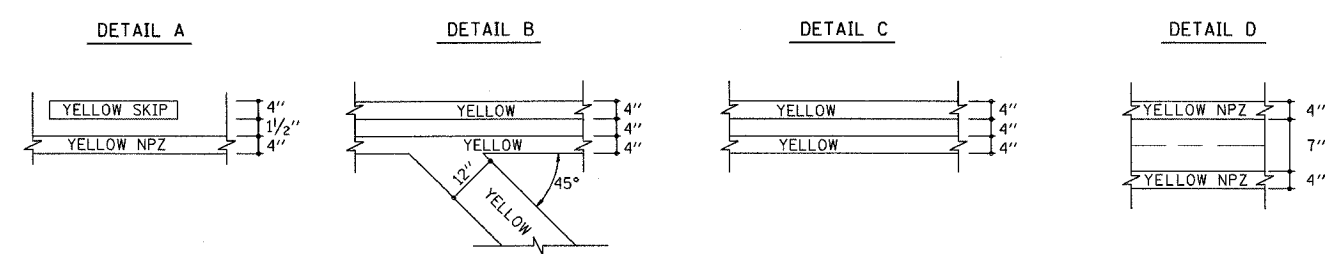


DIAGONAL SPACING

SPEED LIMIT	< 30 MPH	= 15'
SPEED LIMIT	30 TO 45 MPH	= 20'
SPEED LIMIT	> 45 MPH	= 30'

TYPICAL BI-DIRECTIONAL TURN LANE MARKINGS  
 (SHOWING TRANSITION TO EXCLUSIVE LEFT TURN LANE)

- NOTES:
1. NO LESS THAN 2 ARROWS SHALL BE USED.
  2. TAPER RATES, LANE WIDTHS, AND STORAGE LENGTHS AS SHOWN ON THE PLANS.
  3. AVOID PLACING BI-DIRECTIONAL ARROWS IN INTERSECTIONS.
  4. BI-DIRECTIONAL ARROWS SHALL BE SPACED A MAXIMUM OF 250'.



NOT TO SCALE

REVISIONS	
NAME	DATE
MMO	12-99
DRM	08-04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPICAL APPLICATION OF PAVEMENT MARKINGS**  
 SCALE: VERT. \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

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