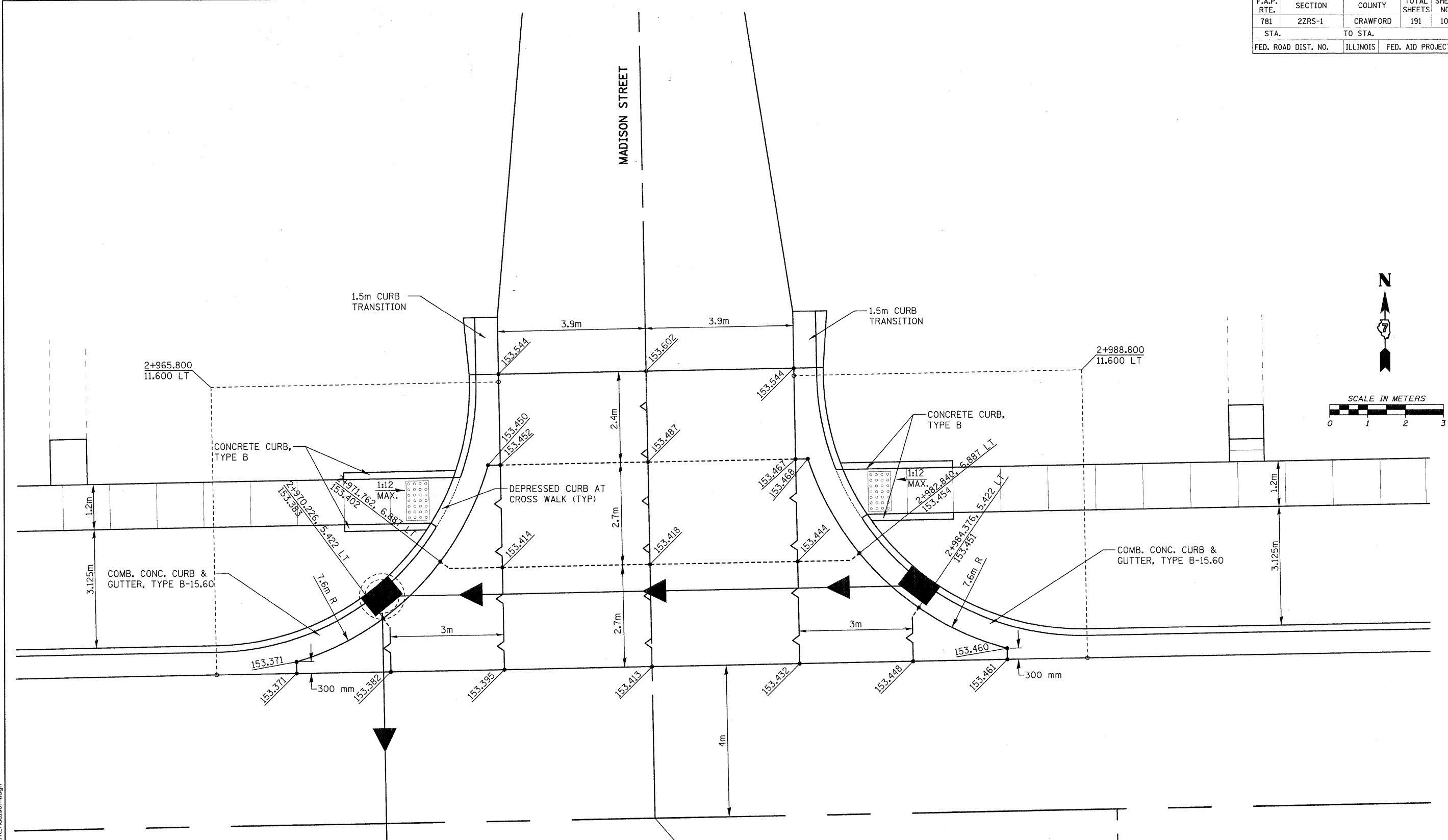


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	101
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- ~ LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWed WITH SEPERATE LANE POURS.
- 555.555 PROPOSED SURFACE ELEVATION

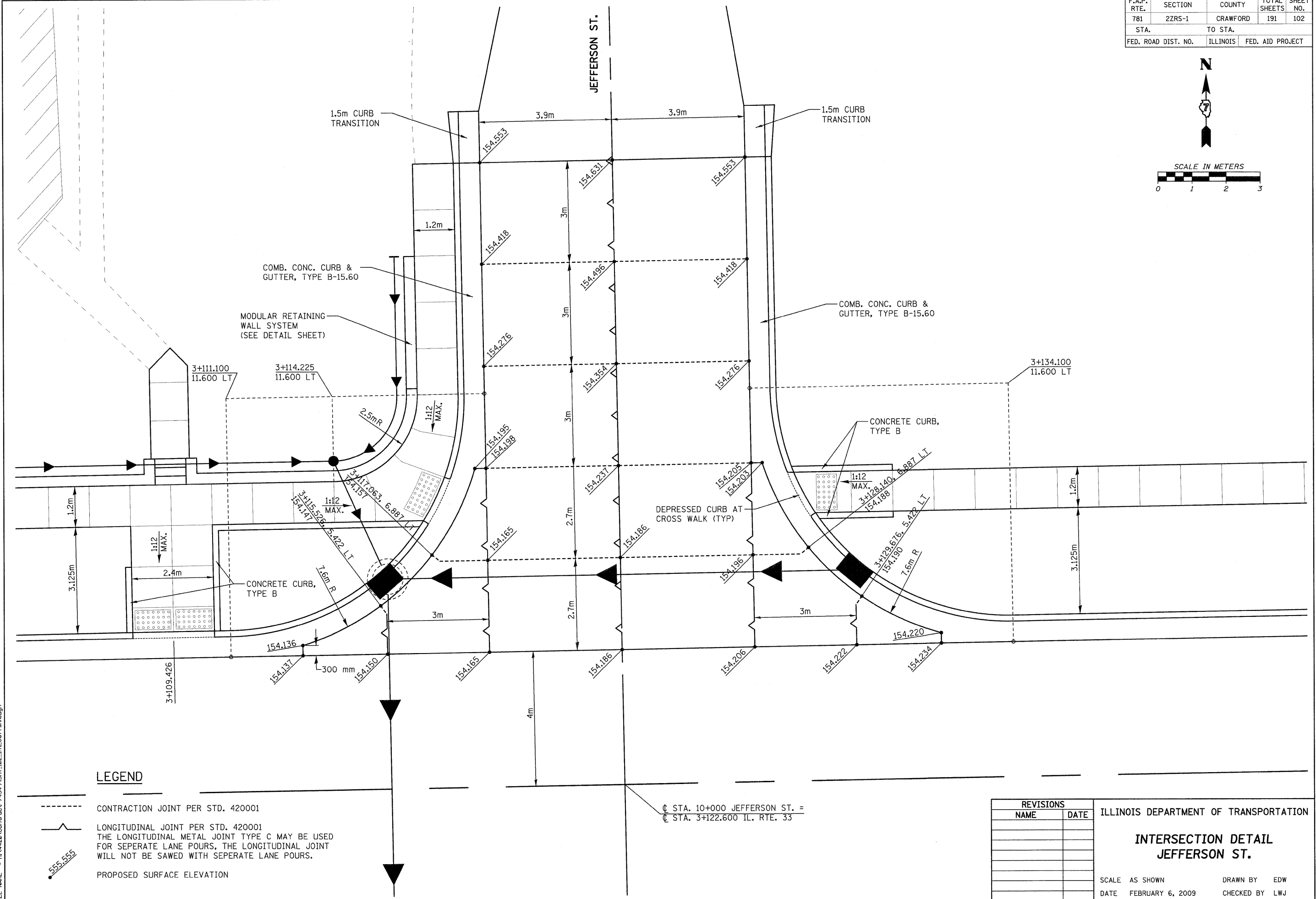
⊕ STA. 10+000 MADISON STREET =  
⊕ STA. 2+977.300 IL. RTE. 33

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center"><b>INTERSECTION DETAIL MADISON STREET</b></p> <p>SCALE AS SHOWN      DRAWN BY EDW DATE FEBRUARY 6, 2009      CHECKED BY LWJ</p>

PLOT DATE = 2/5/2009  
FILE NAME = H:\4420\Contract 74349\GHT\_101\_int\_Madison.dgn

H. M. & G. NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	102
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPARATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPARATE LANE POURS.
- PROPOSED SURFACE ELEVATION

☐ STA. 10+000 JEFFERSON ST. =  
☐ STA. 3+122.600 IL. RTE. 33

REVISIONS	
NAME	DATE

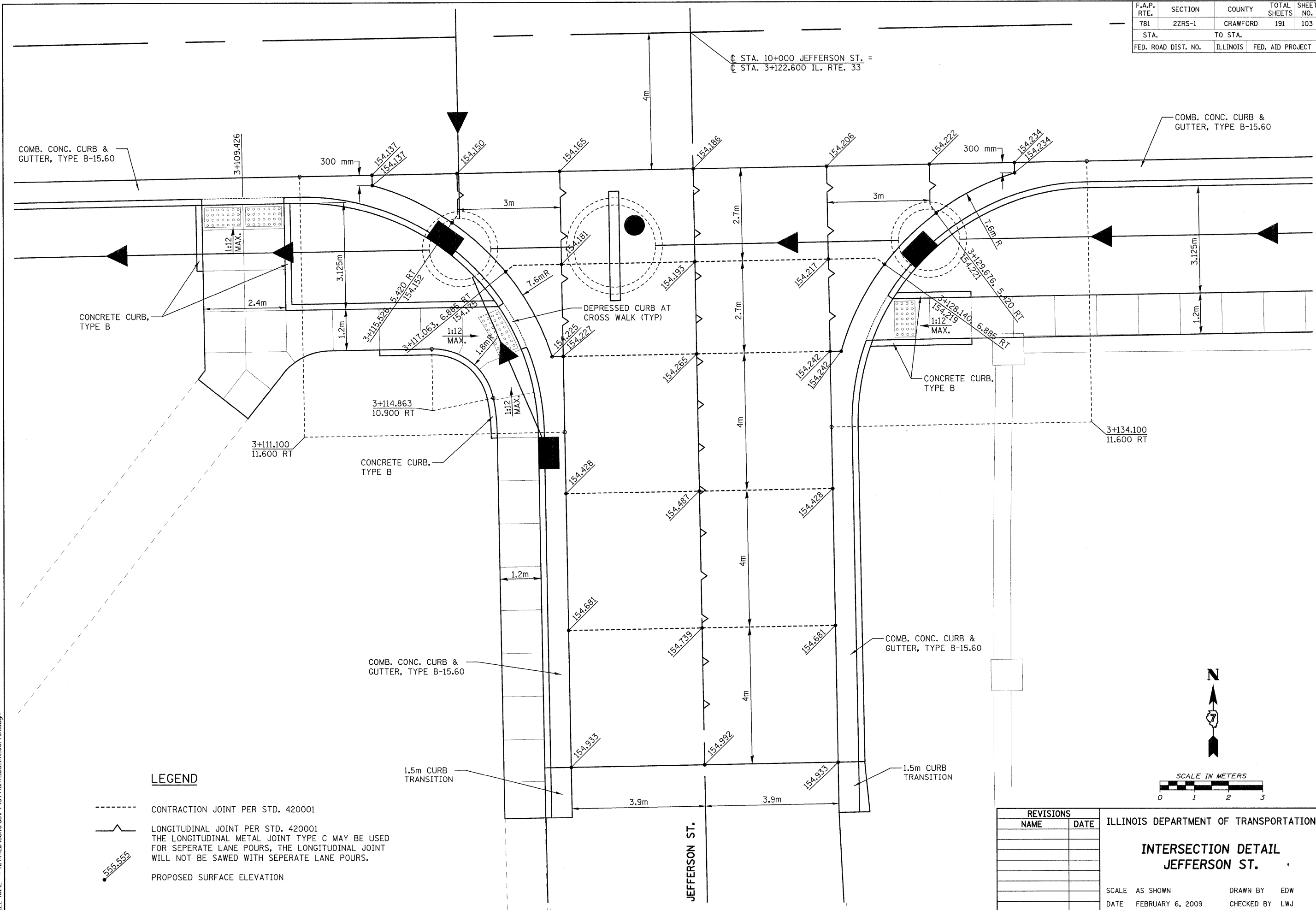
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION DETAIL  
JEFFERSON ST.**  
SCALE AS SHOWN DRAWN BY EDW  
DATE FEBRUARY 6, 2009 CHECKED BY LWJ

PLOT DATE = 2/5/2009  
FILE NAME = H:\4428\Contract 74349\SH1\_102\_int\_Jeffn\ldgn

H. M. & G. NO. 4420

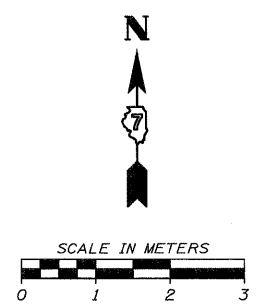
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	103
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CL STA. 10+000 JEFFERSON ST. =  
CL STA. 3+122.600 IL. RTE. 33



**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPERATE LANE POURS.
- PROPOSED SURFACE ELEVATION



REVISIONS	
NAME	DATE

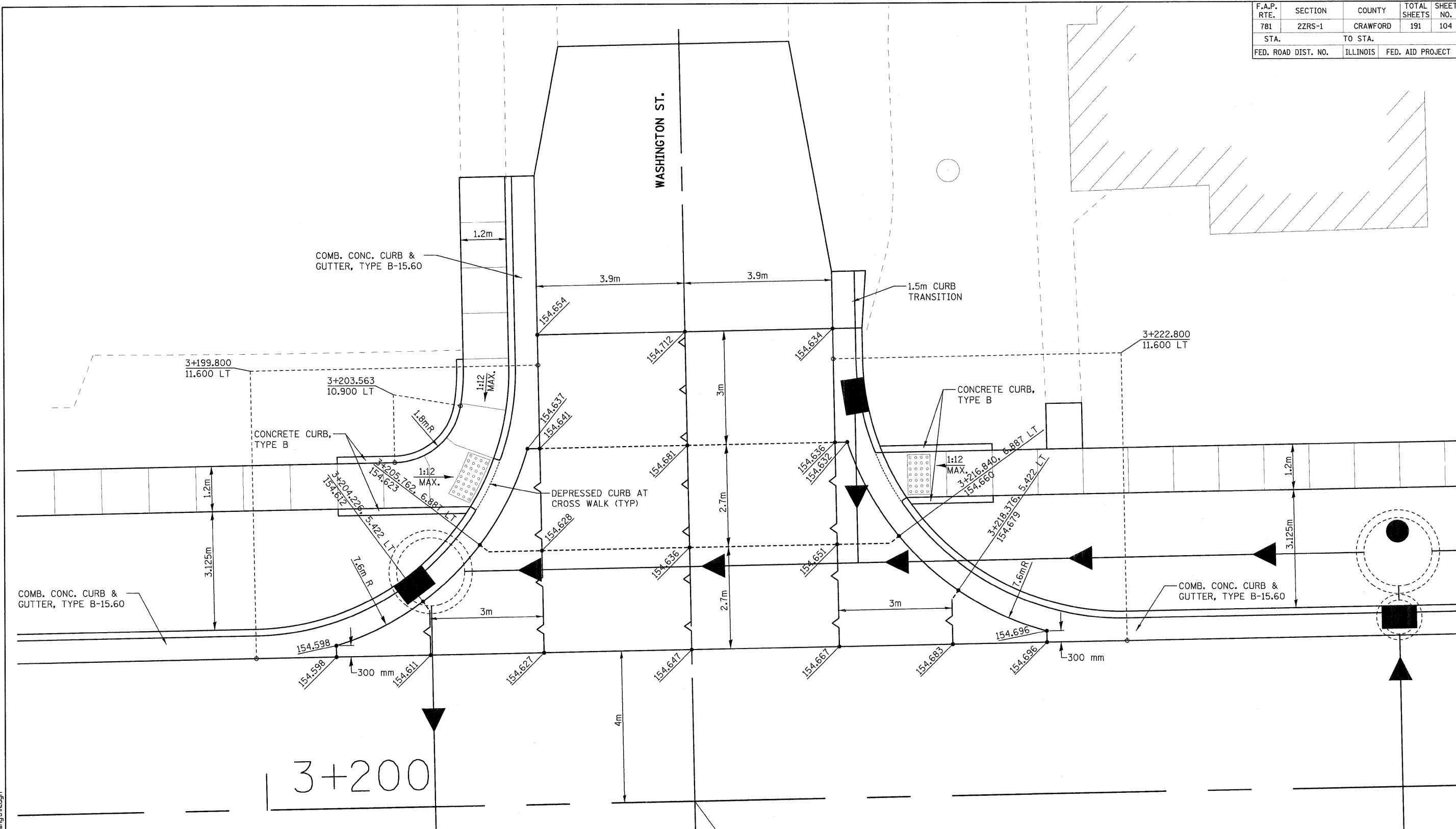
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION DETAIL**  
**JEFFERSON ST.**

SCALE AS SHOWN      DRAWN BY EDW  
DATE FEBRUARY 6, 2009      CHECKED BY LWJ

PLOT DATE = 2/5/2009  
FILE NAME = H:\4420\Contract 74349\SH1\_103\_int\_JeffnS.dgn

H. M. & G. NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	104
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPARATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPARATE LANE POURS.
- PROPOSED SURFACE ELEVATION

C STA. 10+000 WASHINGTON ST. =  
 C STA. 3+211.300 IL. RTE. 33

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>INTERSECTION DETAIL WASHINGTON STREET</b>

SCALE AS SHOWN      DRAWN BY EDW  
 DATE FEBRUARY 6, 2009      CHECKED BY LWJ

PLOT DATE = 2/5/2009  
 FILE NAME = H:\V420\Contract 74349\SH1\_104\_in1\_Maigsten\udgn

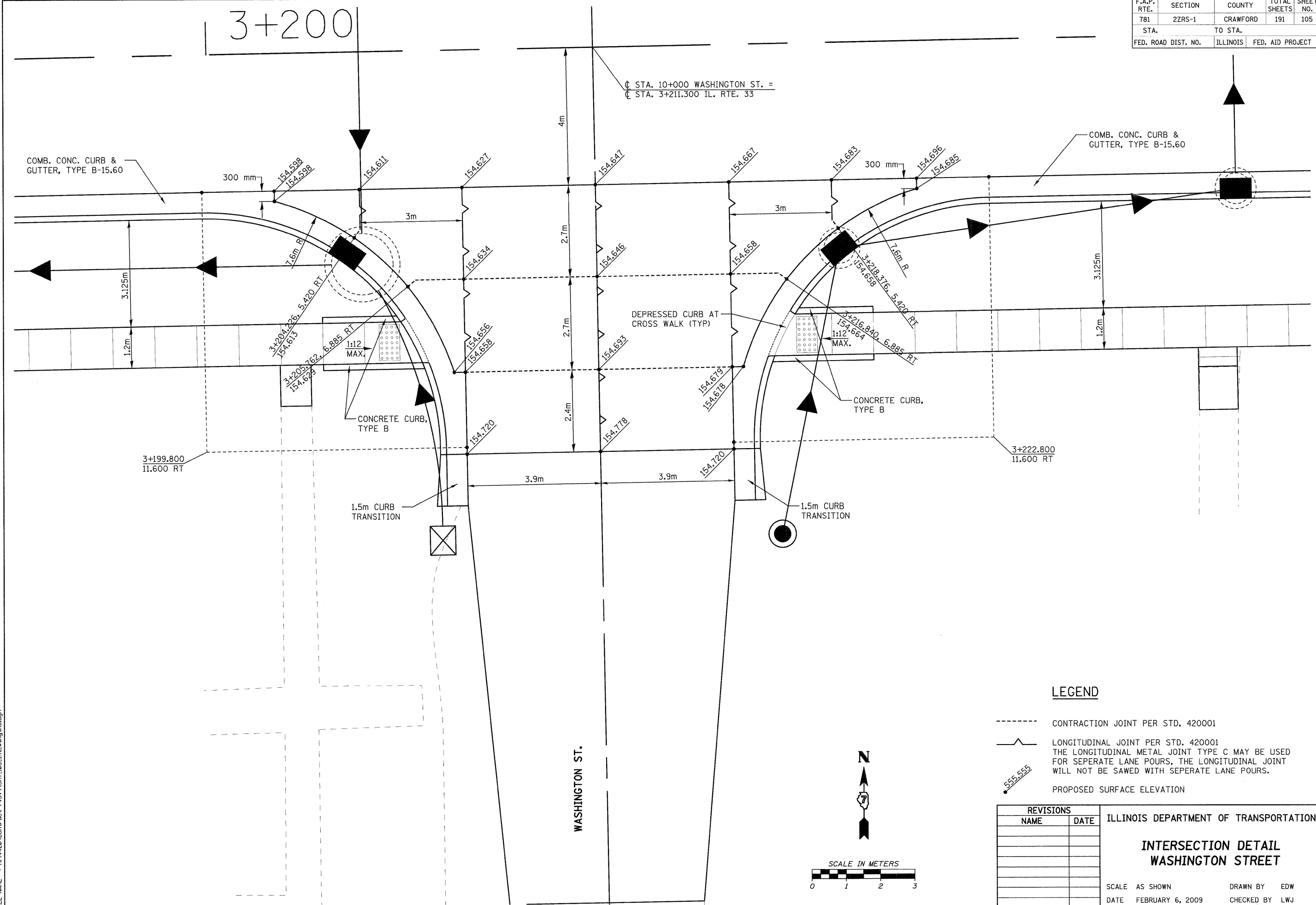
H. M. & G. NO. 4420



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	105
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

3+200

⊕ STA. 10+000 WASHINGTON ST. =  
⊕ STA. 3+211.300 IL. RTE. 33



**LEGEND**



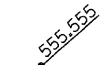
- CONTRACTION JOINT PER STD. 420001
- ~ LONGITUDINAL JOINT PER STD. 420001
- 555.555 THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPERATE LANE POURS.
- PROPOSED SURFACE ELEVATION

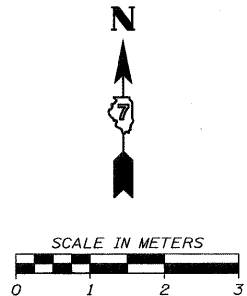
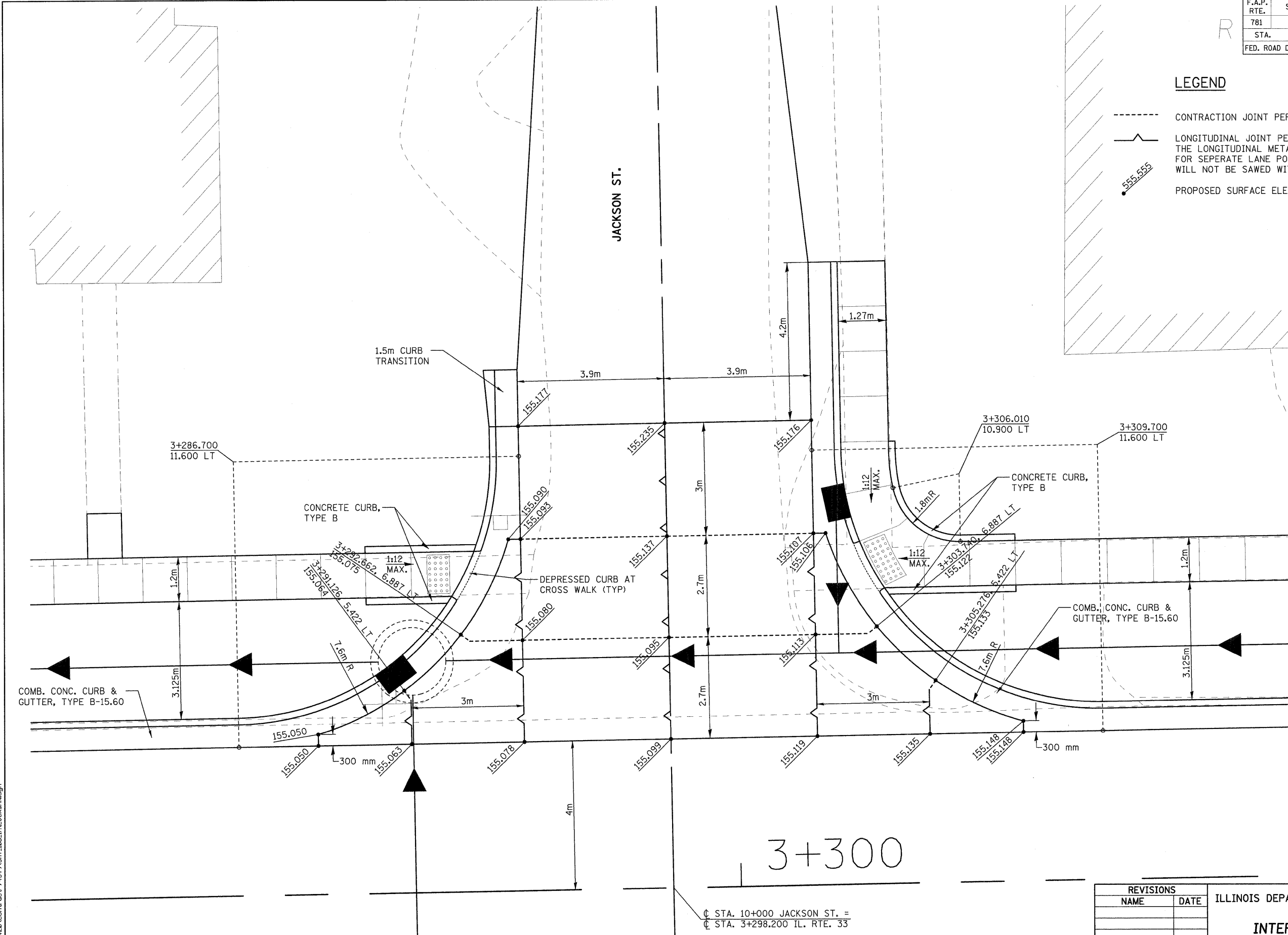
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		INTERSECTION DETAIL WASHINGTON STREET
SCALE AS SHOWN	DRAWN BY EDW	H. M. & G. NO. 4420
DATE FEBRUARY 6, 2009	CHECKED BY LWJ	

PLOT DATE = 2/5/2009  
 FILE NAME = H:\V4420\Contract 74349\BHT\_105\_int\_Washington.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	106
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

**LEGEND**

-  CONTRACTION JOINT PER STD. 420001
-  LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPERATE LANE POURS.
-  PROPOSED SURFACE ELEVATION



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION DETAIL**  
**JACKSON ST.**  
 SCALE AS SHOWN      DRAWN BY EDW  
 DATE FEBRUARY 6, 2009      CHECKED BY LWJ

⊕ STA. 10+000 JACKSON ST. =  
 ⊕ STA. 3+298.200 IL. RTE. 33

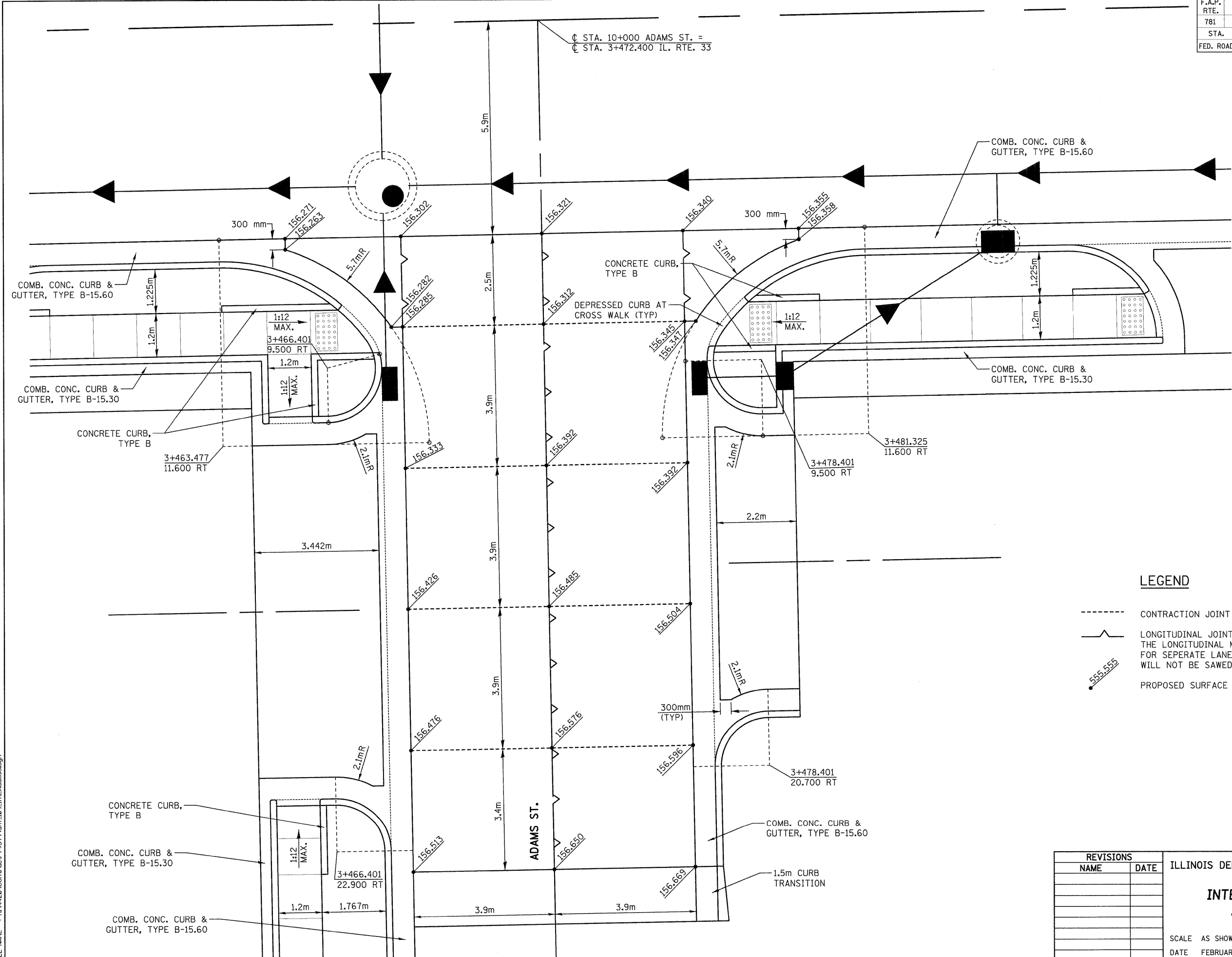
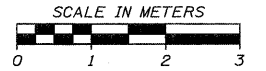
PLOT DATE = 2/5/2009  
 FILE NAME = H:\V4420\Contract 74349\GHT\_106.in\JokanN.dgn

H. M. & G. NO. 4420





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	109
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- ~ LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPERATE LANE POURS.
- 555.555 PROPOSED SURFACE ELEVATION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERSECTION DETAIL  
ADAMS STREET**

SCALE AS SHOWN      DRAWN BY EDW  
DATE FEBRUARY 6, 2009      CHECKED BY LWJ

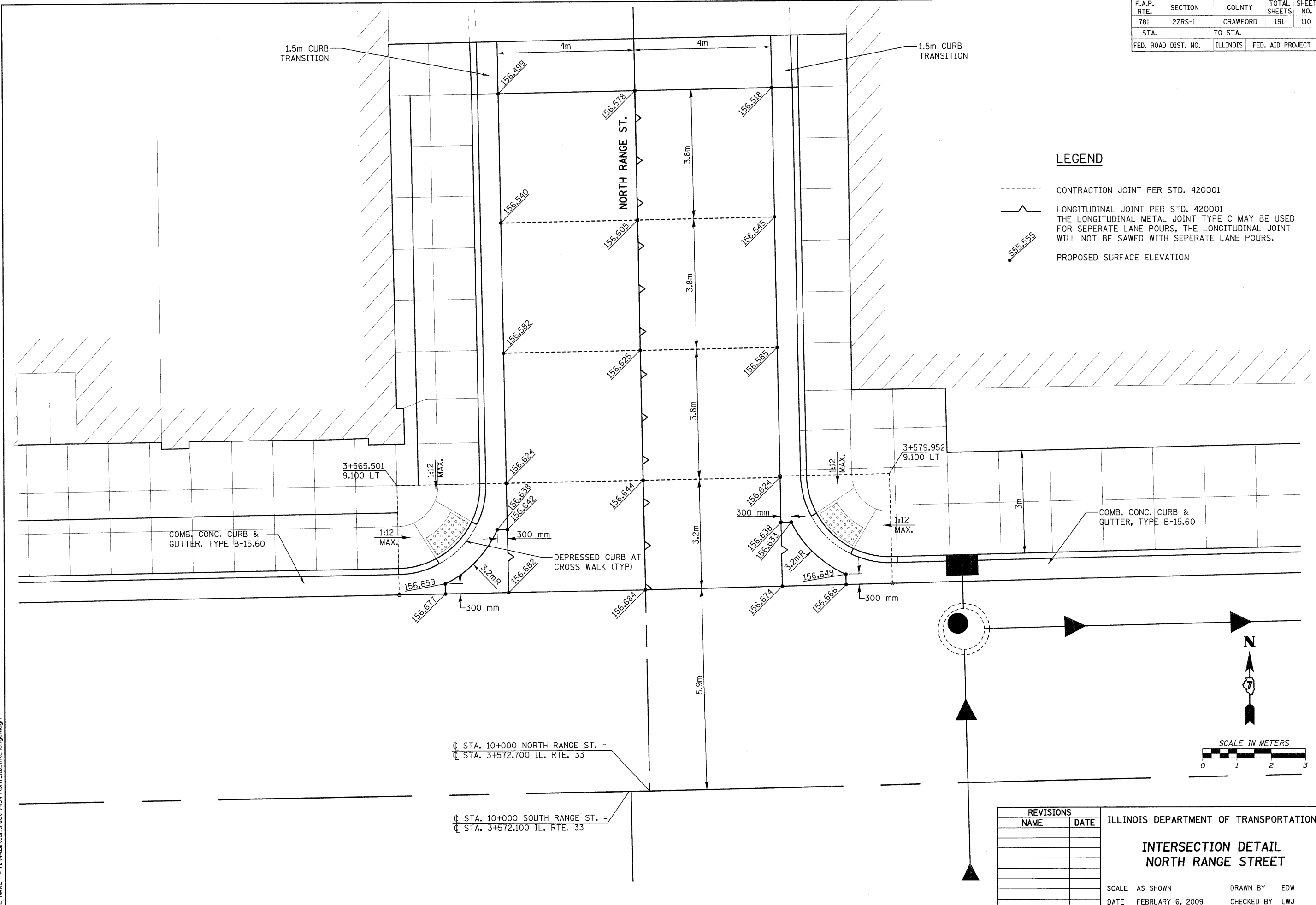
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FILE NAME = H:\V4420\Contract 74349\SHIT\_109.in\Adams.dgn

H. M. & G. NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	110
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- ~ LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPERATE LANE POURS.
- 555.555 PROPOSED SURFACE ELEVATION



⊕ STA. 10+000 NORTH RANGE ST. =  
⊕ STA. 3+572.700 IL. RTE. 33

⊕ STA. 10+000 SOUTH RANGE ST. =  
⊕ STA. 3+572.100 IL. RTE. 33

REVISIONS	
NAME	DATE

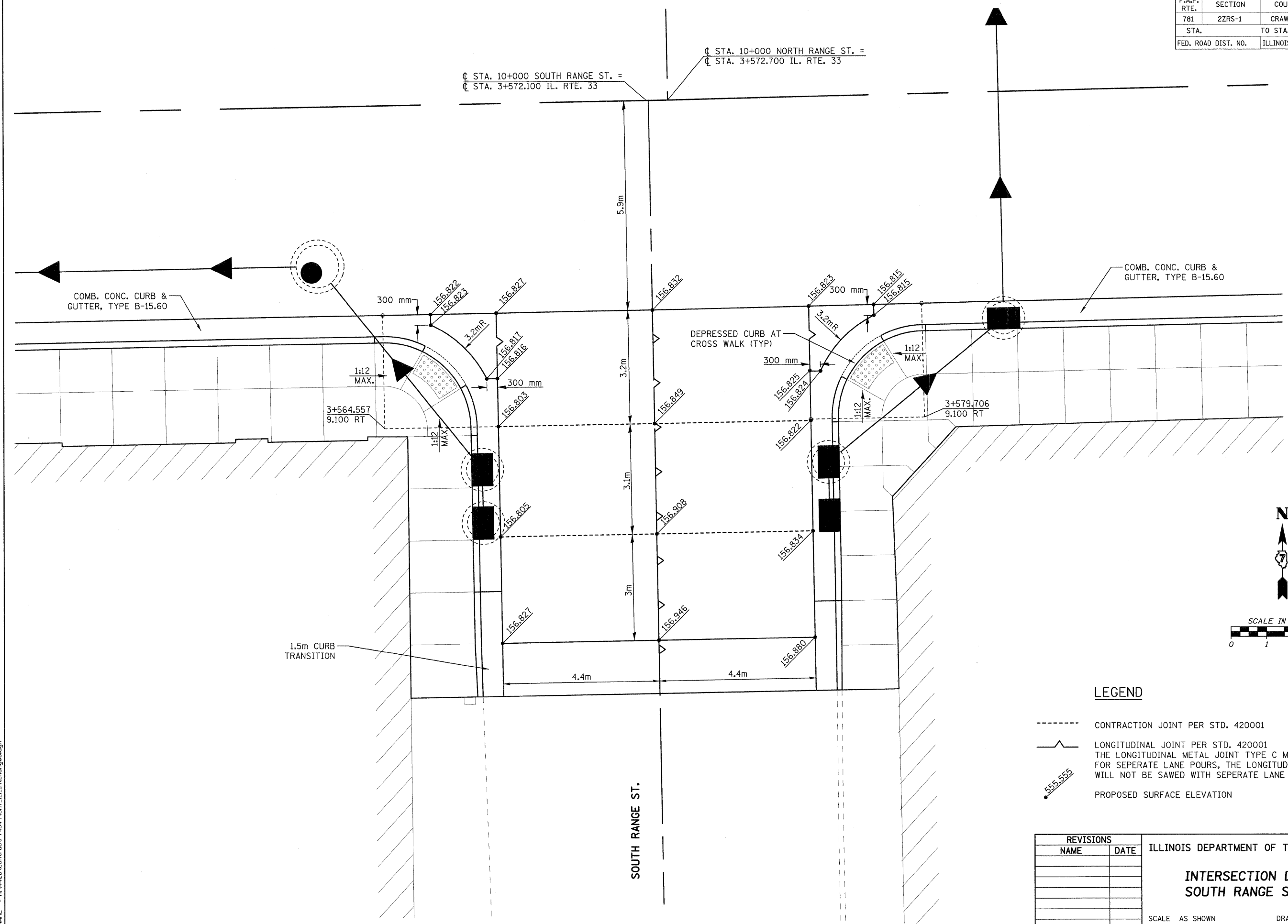
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION DETAIL  
NORTH RANGE STREET**  
SCALE AS SHOWN      DRAWN BY EDW  
DATE FEBRUARY 6, 2009      CHECKED BY LWJ

PLOT DATE = 2/5/2009  
FILE NAME = H:\4420\Contract 74349\SH1\_110\_int\_RangeN.dgn

H. M. & G. NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	111
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

C STA. 10+000 SOUTH RANGE ST. =  
 C STA. 3+572.100 IL. RTE. 33  
 C STA. 10+000 NORTH RANGE ST. =  
 C STA. 3+572.700 IL. RTE. 33



**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- ~ LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPERATE LANE POURS.
- 155.555 PROPOSED SURFACE ELEVATION

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>INTERSECTION DETAIL SOUTH RANGE STREET</b>  SCALE AS SHOWN      DRAWN BY EDW DATE FEBRUARY 6, 2009      CHECKED BY LWJ

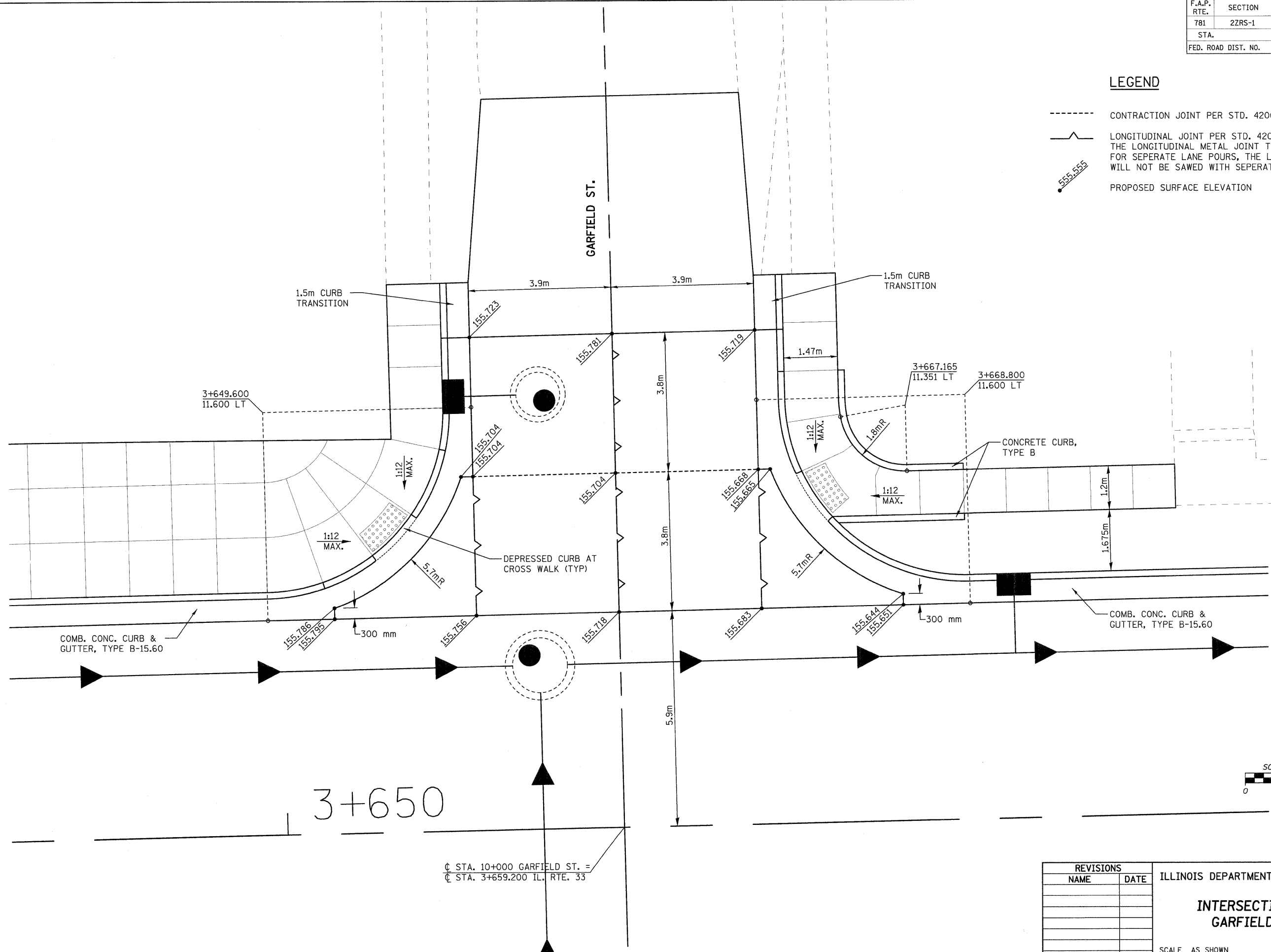
PLOT DATE = 2/5/2009  
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H. M. & G. NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	112
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- ~ LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPERATE LANE POURS.
- 555.555 PROPOSED SURFACE ELEVATION



PLOT DATE = 2/5/2009  
FILE NAME = H:\1428\Contract 74349\SH1.112.int\_Gar-Flt.dgn

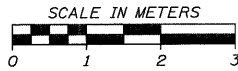
H. M. & G. NO. 4420

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		INTERSECTION DETAIL GARFIELD STREET
SCALE	AS SHOWN	DRAWN BY EDW
DATE	FEBRUARY 6, 2009	CHECKED BY LWJ



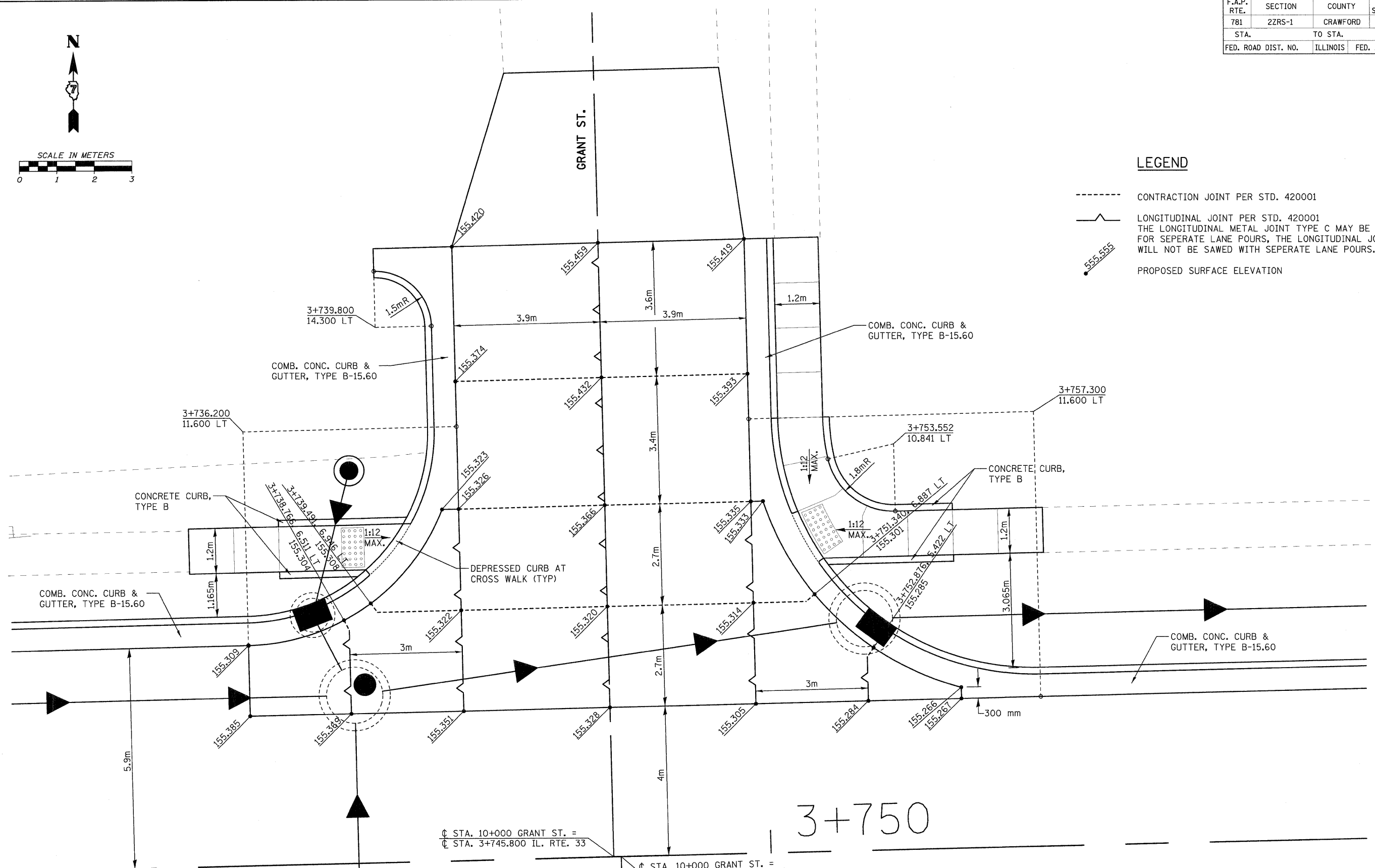


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	114
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- ~ LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPERATE LANE POURS.
- 555.555 PROPOSED SURFACE ELEVATION



⌊ STA. 10+000 GRANT ST. =  
 ⌊ STA. 3+745.800 IL. RTE. 33  
  
 ⌊ STA. 10+000 GRANT ST. =  
 ⌊ STA. 3+746.000 IL. RTE. 33

3+750

PLOT DATE = 2/5/2009  
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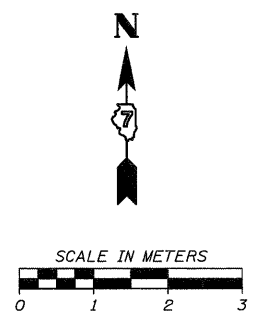
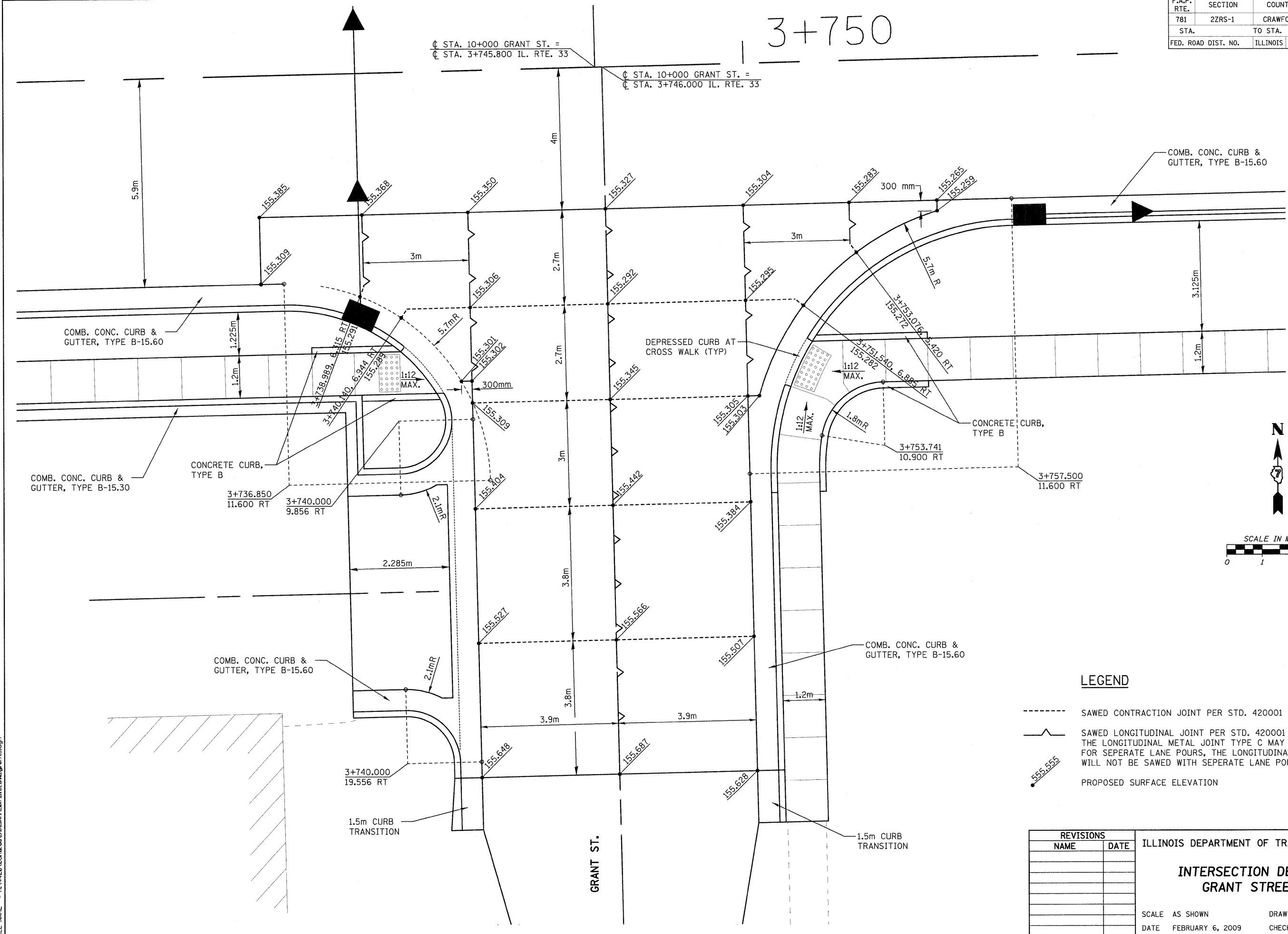
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center"><b>INTERSECTION DETAIL GRANT STREET</b></p> <p>SCALE AS SHOWN      DRAWN BY EDW                      DATE FEBRUARY 6, 2009      CHECKED BY LWJ</p>

H. M. & G. NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	115
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

3+750

± STA. 10+000 GRANT ST. =  
± STA. 3+745.800 IL. RTE. 33  
± STA. 10+000 GRANT ST. =  
± STA. 3+746.000 IL. RTE. 33



**LEGEND**

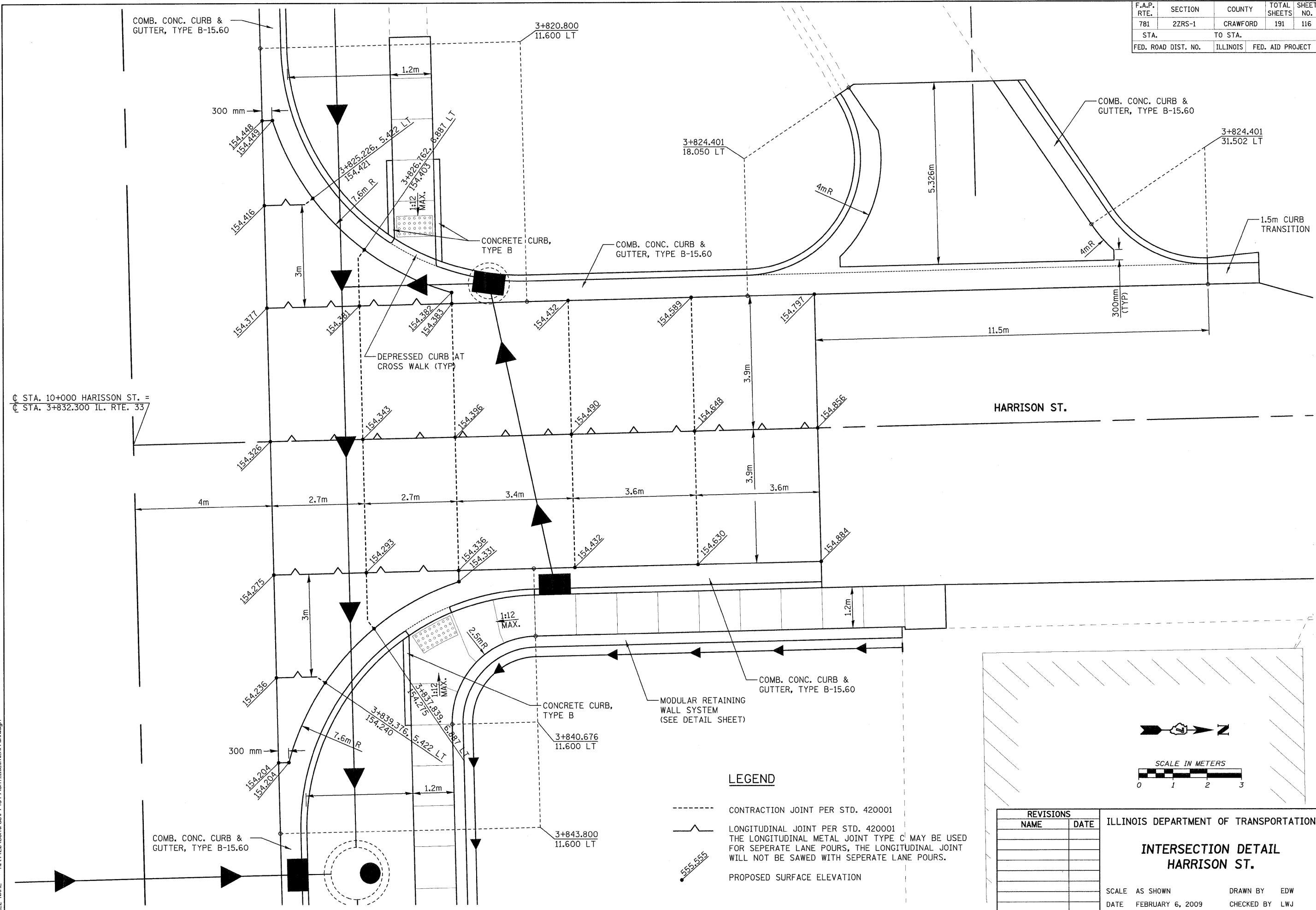
- SAWED CONTRACTION JOINT PER STD. 420001
- ~ SAWED LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPARATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPARATE LANE POURS.
- 555.555 PROPOSED SURFACE ELEVATION

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		INTERSECTION DETAIL GRANT STREET
SCALE	AS SHOWN	DRAWN BY EDW
DATE	FEBRUARY 6, 2009	CHECKED BY LWJ

PLOT DATE = 2/6/2009  
FILE NAME = H:\4420\4420.dwg

H. M. & G. NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	116
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



Ⓞ STA. 10+000 HARRISON ST. =  
 Ⓞ STA. 3+832.300 IL. RTE. 33

**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- /— LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPERATE LANE POURS.
- 555.555 PROPOSED SURFACE ELEVATION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERSECTION DETAIL  
HARRISON ST.**

SCALE AS SHOWN      DRAWN BY EDW  
DATE FEBRUARY 6, 2009      CHECKED BY LWJ

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_116.mxd

H. M. & G. NO. 4420



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	118
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

3+900

CL STA. 10+000 TAYLOR ST. =  
CL STA. 3+919.000 IL. RTE. 33

COMB. CONC. CURB & GUTTER, TYPE B-15.60

COMB. CONC. CURB & GUTTER, TYPE B-15.60

DEPRESSED CURB AT CROSS WALK (TYP)

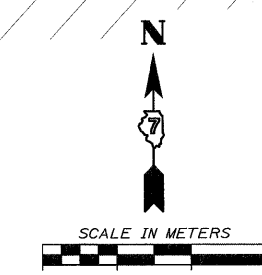
CONCRETE CURB, TYPE B

CONCRETE CURB, TYPE B

TAYLOR ST.

**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- |-|- LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWED WITH SEPERATE LANE POURS.
- PROPOSED SURFACE ELEVATION

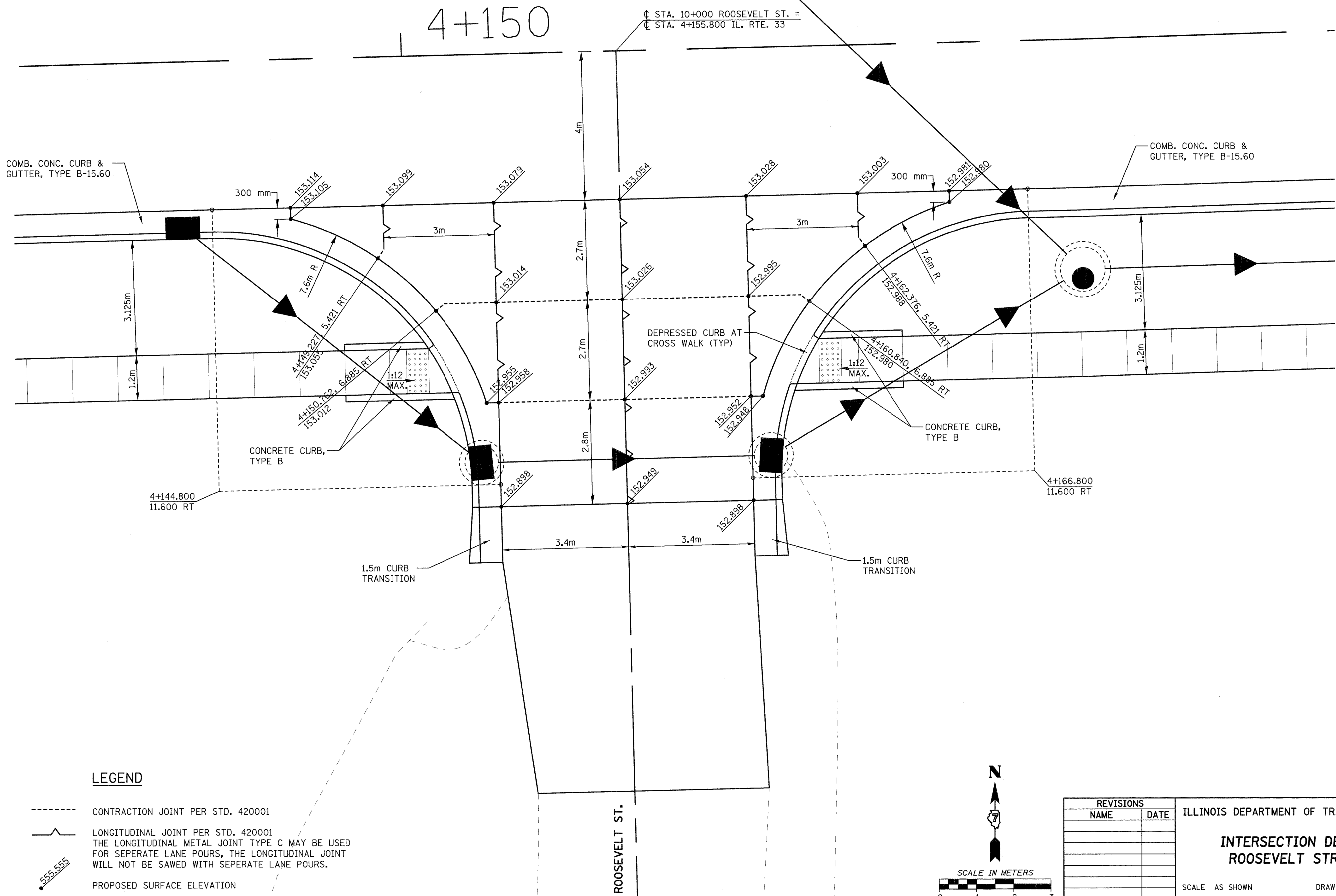


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p><b>INTERSECTION DETAIL</b> <b>TAYLOR ST.</b></p> <p>SCALE AS SHOWN      DRAWN BY EDW DATE FEBRUARY 6, 2009      CHECKED BY LWJ</p>

PLOT DATE = 2/6/2009  
FILE NAME = H:\4420\Contract 74349\SHI\_118\_int\_TaylorS.dgn

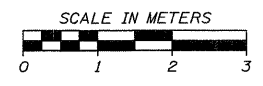
H. M. & G. NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	119
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



**LEGEND**

- CONTRACTION JOINT PER STD. 420001
- LONGITUDINAL JOINT PER STD. 420001  
THE LONGITUDINAL METAL JOINT TYPE C MAY BE USED FOR SEPERATE LANE POURS, THE LONGITUDINAL JOINT WILL NOT BE SAWS WITH SEPERATE LANE POURS.
- 555.555 PROPOSED SURFACE ELEVATION



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

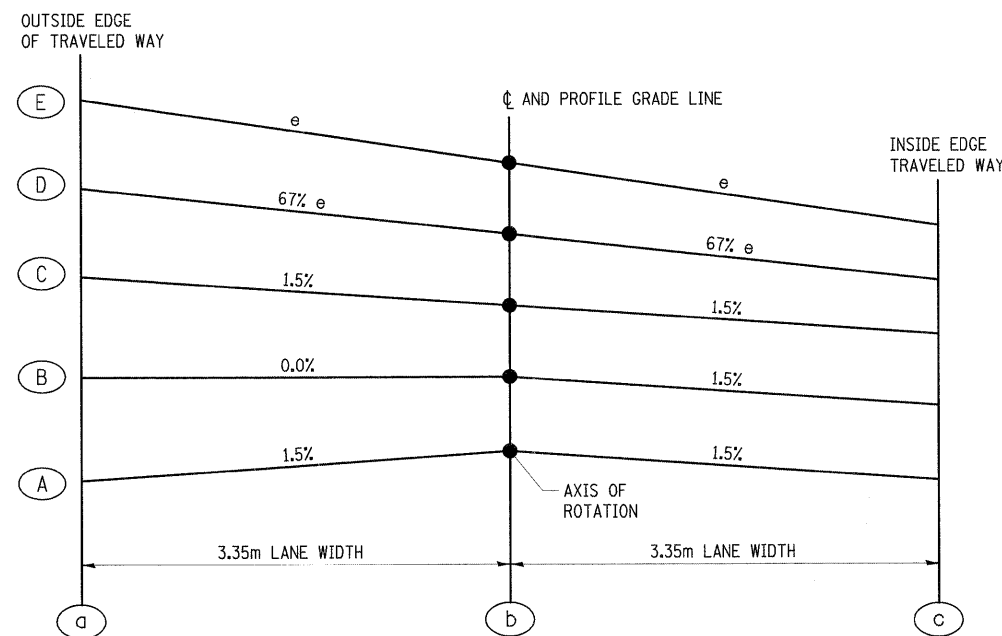
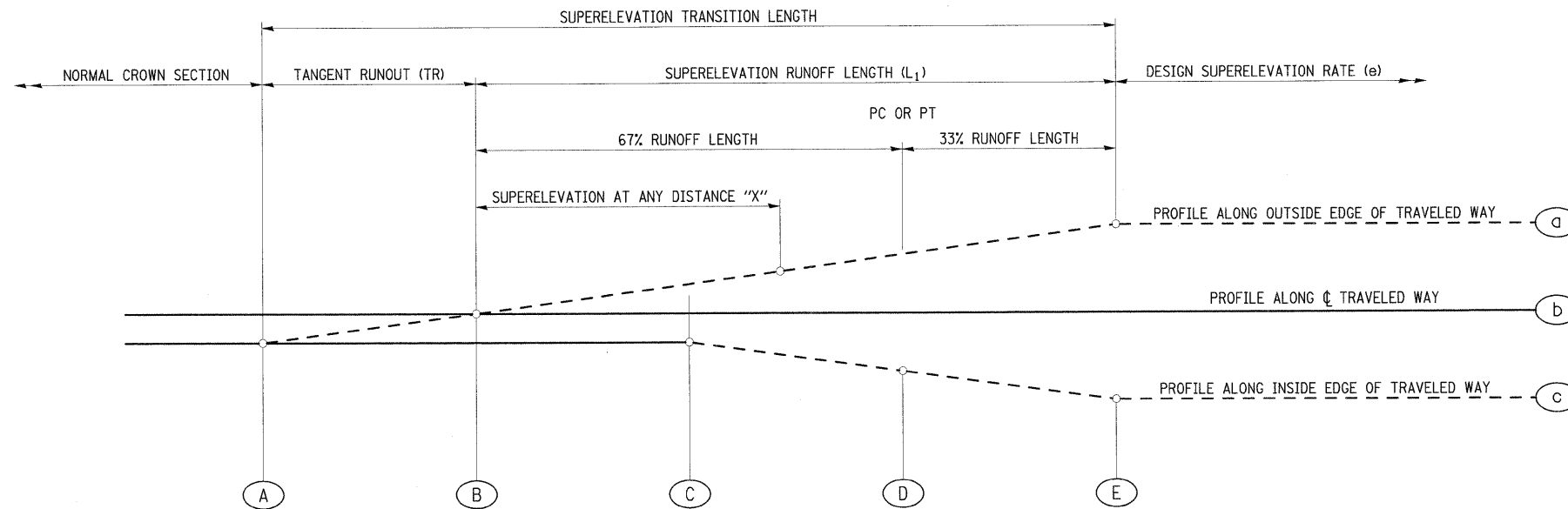
**INTERSECTION DETAIL  
ROOSEVELT STREET**

SCALE AS SHOWN      DRAWN BY EDW  
DATE FEBRUARY 6, 2009      CHECKED BY LWJ

PLOT DATE = 2/5/2009  
FILE NAME = H:\4420\Contract 74349\BHT\_119\_int.dwg

H. M. & G. NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	120
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES

1. REFER TO THE TYPICAL SECTIONS, PLAN & PROFILE SHEETS AND THE SUPERELEVATION DATA TABLES ON THE FOLLOWING SHEET FOR DETAILED INFORMATION AT EACH CURVE.
2. TO COMPUTE THE SUPERELEVATION AT ANY DISTANCE "X" FROM POINT B, USE THE FOLLOWING:

$$\text{SUPERELEVATION AT ANY DISTANCE "X"} = \frac{(3.35e/L_1) \times \text{DISTANCE "X"}}{36}$$

TYPICAL SUPERELEVATION TRANSITION DETAILS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>TYPICAL SUPERELEVATION TRANSITION DETAIL</b>
		SCALE NO SCALE      DRAWN BY KOJ DATE FEBRUARY 6, 2009      CHECKED BY LWJ

PLOT DATE = 2/5/2009  
 FILE NAME = H:\V420\Contract 74349\SH1.120.detailed.dgn

H. M. & G. NO. 4420



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	121
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CURVE P2 TRANSITION DETAILS

R = 307.912      NC = -1.5%      LANE WIDTH = 3.35m

CURVE = LEFT      SE = 6.0%

	ROUNDED	1/3	1/3		CURVE STATIONS
L <sub>1</sub>	43	14	29	PC	1+887.948
TR	11	---	---	PT	2+113.592

	STATION	SUPERELEVATION	
		LEFT	RIGHT
A	1+847.948	-1.50%	-1.50%
B	1+858.948	-1.50%	0.0%
C	1+869.948	-1.50%	1.50%
D	1+887.948	-4.03%	4.03%
E	1+901.948	-6.0%	6.0%
E	2+099.592	-6.0%	6.0%
D	2+113.592	-4.03%	4.03%
C	2+131.592	-1.50%	1.50%
B	2+142.592	-1.50%	0.0%
A	2+153.592	-1.50%	-1.50%

CURVE P5 TRANSITION DETAILS

R = 577.756      NC = -2.0%      LANE WIDTH = 3.35m

CURVE = RIGHT      SE = 2.8%

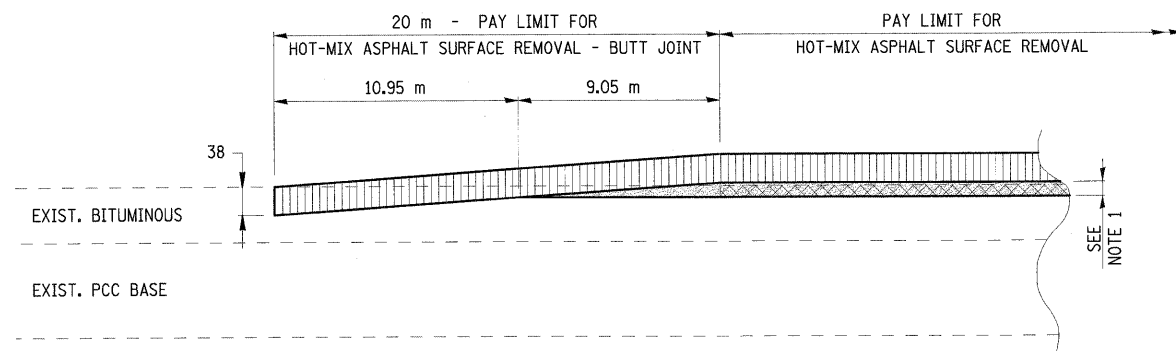
	ROUNDED	1/3	2/3		CURVE STATIONS
L <sub>1</sub>	20	7	13	PC	4+374.882
TR	14	---	---	PT	4+428.404

	STATION	SUPERELEVATION	
		LEFT	RIGHT
A	4+347.882	-2.00%	-2.00%
B	4+361.882	-2.00%	0.0%
C	4+375.882	-2.00%	2.00%
D	4+374.882	-1.87%	1.87%
E	4+381.882	-2.8%	2.8%
E	4+421.404	-2.8%	2.8%
D	4+428.404	-1.87%	1.87%
C	4+427.404	-2.00%	2.00%
B	4+441.404	-2.00%	0.0%
A	4+455.404	-2.00%	-2.00%

PLOT DATE = 2/5/2009  
FILE NAME = H:\1420\Contract 74349\BHT\_120\_details.dgn

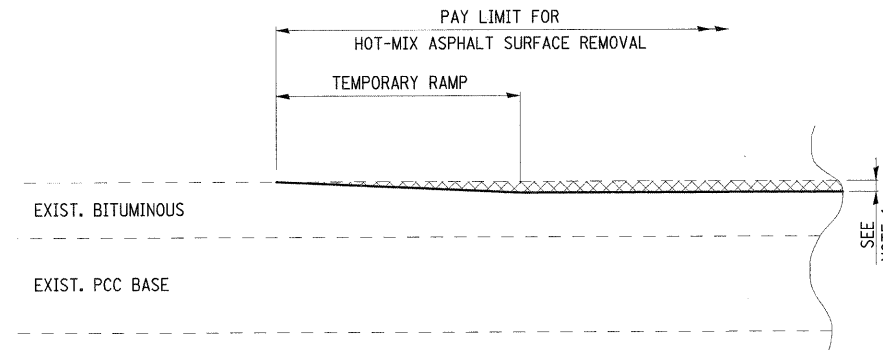
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p><b>SUPERELEVATION TRANSITION DATA TABLES</b></p> <p>SCALE NO SCALE      DRAWN BY KOJ</p> <p>DATE FEBRUARY 6, 2009      CHECKED BY LWJ</p>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	122
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



- HOT-MIX ASPHALT SURFACE REMOVAL
- HOT-MIX ASPHALT SURFACE COURSE
- HOT-MIX ASPHALT BINDER COURSE OR LEVEL BINDER

**BUTT JOINT DETAIL**



- HOT-MIX ASPHALT SURFACE REMOVAL

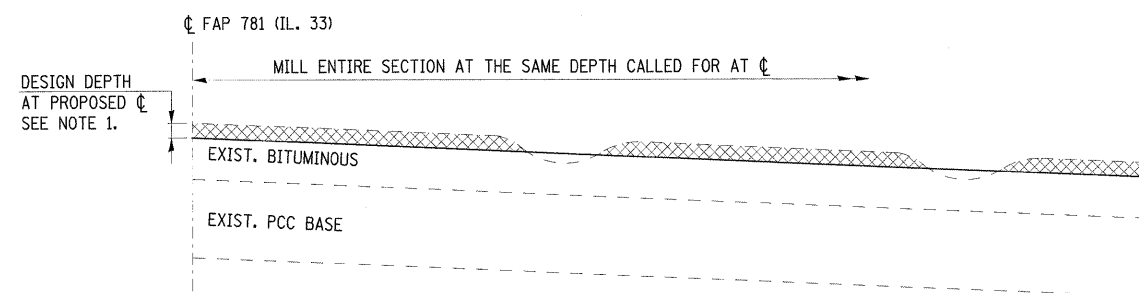
**MILLED TEMPORARY RAMP**

**NOTES**

- REFER TO THE HOT-MIX ASPHALT SURFACE REMOVAL DETAILS BELOW AND THE HOT-MIX ASPHALT SURFACE REMOVAL SCHEDULE FOR MILLING THICKNESSES.
- BUTT JOINTS AND TEMPORARY RAMPS SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- BUTT JOINTS SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO THE PLACING OF THE PROPOSED HOT-MIX ASPHALT COURSES.
- TAPER THE TEMPORARY RAMP AT A RATE OF 900mm (3') PER 25mm (1") OF MILLING THICKNESS.
- TEMPORARY RAMPS SHALL BE CONSTRUCTED AT ALL BUTT JOINT LOCATIONS. AT ALL OTHER PAVEMENT TRANSITIONS THE MILLED TEMPORARY RAMP SHALL BE USED. THE INSTALLATION AND SUBSEQUENT REMOVAL OF THE TEMPORARY RAMP WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE METER FOR TEMPORARY RAMP. MILLED TEMPORARY RAMPS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE REMOVAL.

**NOTES**

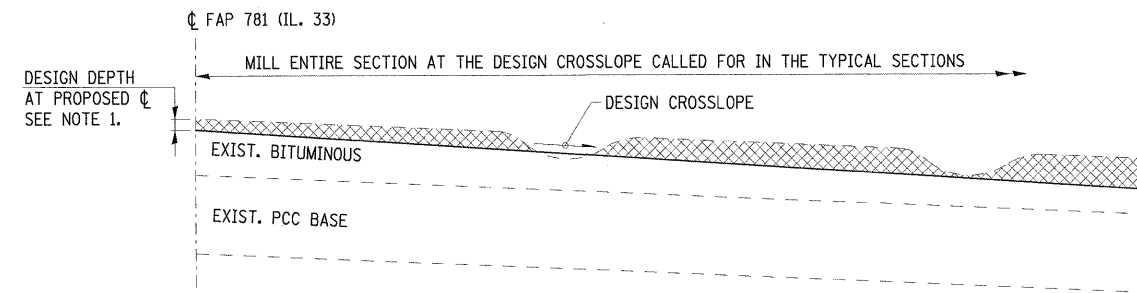
- REFER TO THE HOT-MIX ASPHALT SURFACE REMOVAL SCHEDULE FOR MILLING THICKNESSES AT  $\phi$  AND LOCATIONS WHERE EACH OCCURS.
- MILLING SHALL BE DONE AT THE NOMINAL THICKNESS CALLED FOR AT  $\phi$  ACROSS THE SECTION.
- MILLING TO THE BOTTOM OF WHEEL RUTS SHALL NOT BE NECESSARY UNLESS REQUIRED TO OBTAIN SLOPE OR THE DESIGN DEPTH AT CENTERLINE.
- NOMINAL MILLING AREAS SHALL BE PAID FOR UNDER THE FOLLOWING:  
 M4400715 - HOT-MIX ASPHALT SURFACE REMOVAL, 15mm  
 M4400725 - HOT-MIX ASPHALT SURFACE REMOVAL, 25mm  
 M4400740 - HOT-MIX ASPHALT SURFACE REMOVAL, 40mm



**HOT-MIX ASPHALT SURFACE REMOVAL DETAIL (NOMINAL DEPTH)**

**NOTES**

- REFER TO THE HOT-MIX ASPHALT SURFACE REMOVAL SCHEDULE FOR MILLING THICKNESSES AT  $\phi$  AND LOCATIONS WHERE EACH OCCURS.
- MILLING SHALL BE DONE TO ATTAIN THE DESIRED DESIGN CROSSLOPE ACROSS THE SECTION.
- MILLING TO THE BOTTOM OF WHEEL RUTS SHALL NOT BE NECESSARY UNLESS REQUIRED TO OBTAIN SLOPE OR THE DESIGN DEPTH AT CENTERLINE.
- VARIABLE MILLING AREAS SHALL BE PAID FOR UNDER THE FOLLOWING:  
 M4400950 - HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH



**HOT-MIX ASPHALT SURFACE REMOVAL DETAIL (VARIABLE DEPTH)**

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center"><b>BUTT JOINT, TAPER AND ASPHALT MILLING DETAILS</b></p> <p>SCALE NO SCALE      DRAWN BY KOJ</p> <p>DATE FEBRUARY 6, 2009      CHECKED BY LWJ</p>

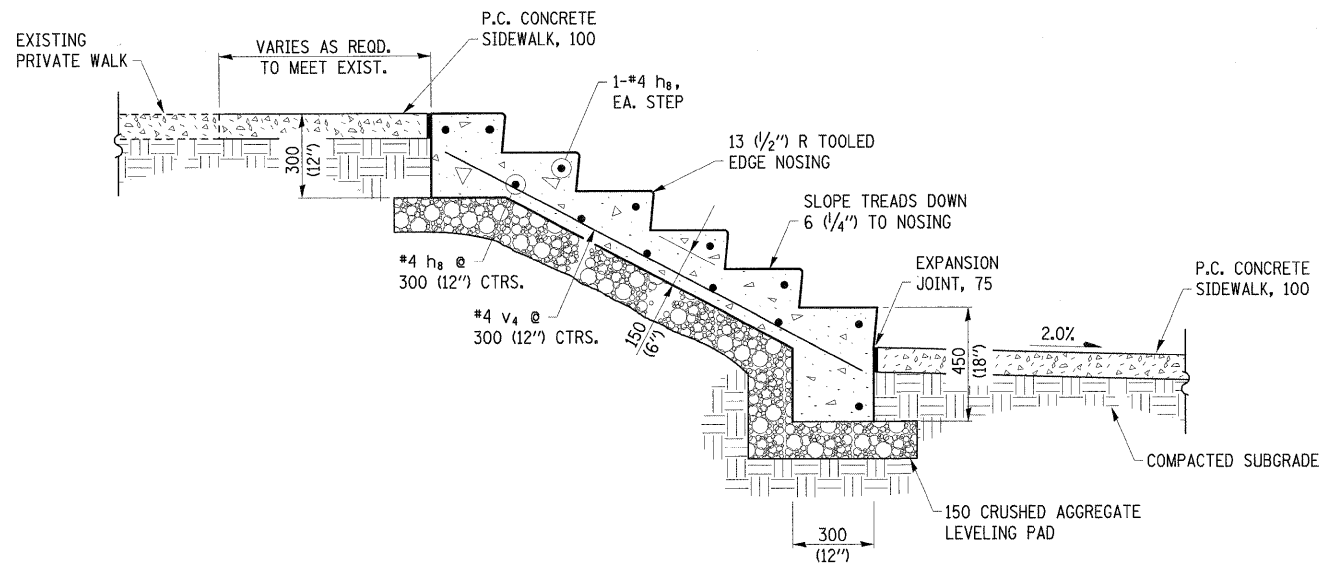
PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SHI\_120\_details.dgn

H. M. & G. NO. 4420

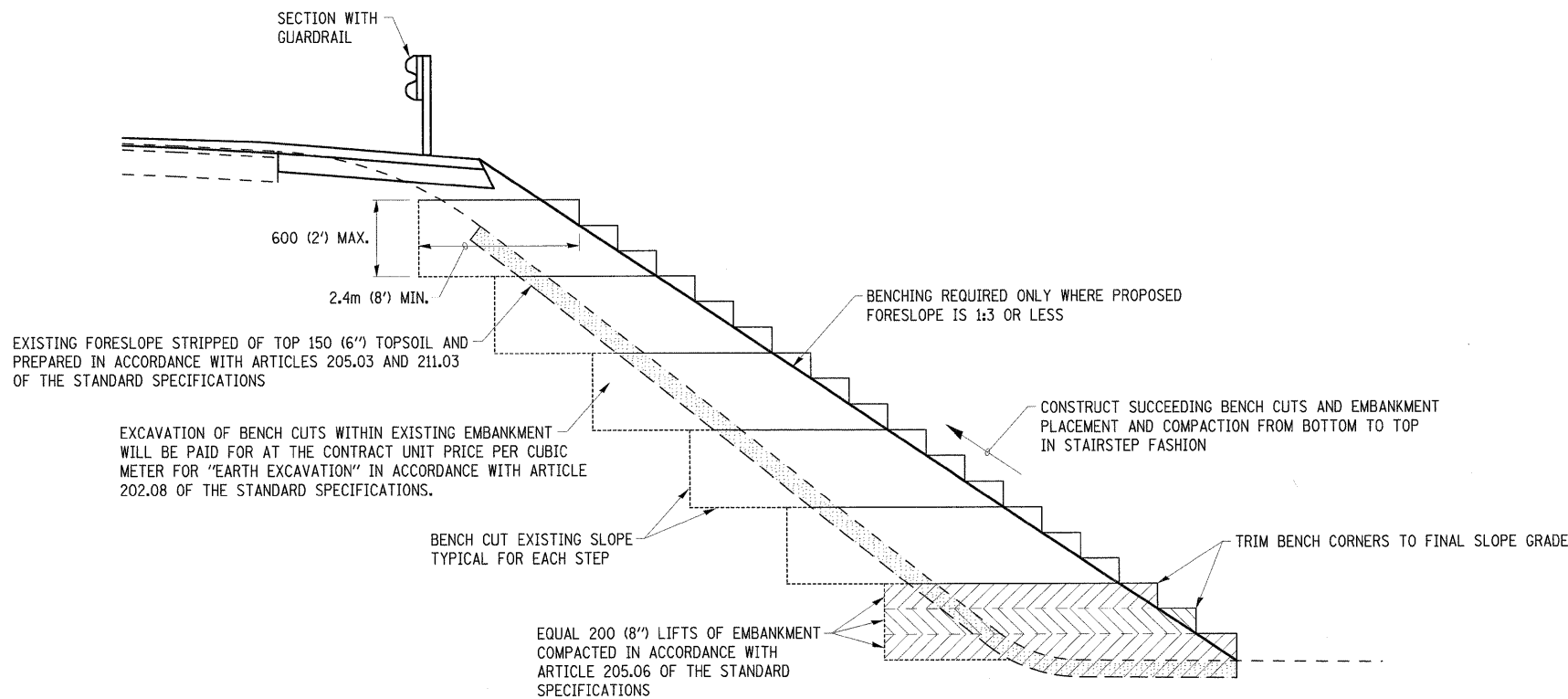
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	123
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**NOTES**

1. CONCRETE STEPS ARE TO BE PROVIDED AT LOCATIONS SHOWN ON THE PLANS OR AS DESIGNATED BY THE ENGINEER WHERE THE ELEVATION DIFFERENCE BETWEEN THE BACK OF PROPOSED SIDEWALK AND PRIVATE WALK IS GREATER THAN 125 (5') IN 1.5m (5').
2. CONCRETE STEPS SHALL BE 1.2m (4') WIDE.
3. THE NUMBER OF CONCRETE STEPS SHALL SUIT THE INDIVIDUAL CONDITIONS, WITH TREAD AND RISER DIMENSIONS TO SUIT THE GRADE DIFFERENCE.
4. STEP RISER HEIGHTS SHALL BE A MINIMUM OF 125 (5") AND A MAXIMUM OF 178 (7") AND UNIFORM PER EACH SET OF STEPS. STEP TREAD WIDTHS SHALL BE A MINIMUM OF 279 (11") AND A MAXIMUM OF 300 (12") AND UNIFORM PER EACH SET OF STEPS.
5. THE COST OF THE CONCRETE STEPS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER FOR CLASS MS CONCRETE. AN ESTIMATED QUANTITY IS PROVIDED IN THE SUMMARY OF QUANTITY SHEETS, BUT ACTUAL FIELD CONDITIONS MAY VARY, THUS INCREASING OR REDUCING THE QUANTITY PROVIDED.
6. THE REINFORCEMENT BARS AND CRUSHED AGGREGATE LEVELING PAD MATERIAL WILL NOT BE PAID FOR SEPARATELY. THE COST FOR THESE ITEMS SHALL BE INCLUDED IN THE COST OF CLASS MS CONCRETE.
7. THE REMOVAL OF ANY EXISTING STEPS AND/OR PRIVATE WALK BEHIND THE RIGHT-OF-WAY LINE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE METER FOR SIDEWALK REMOVAL.



**CONCRETE STEPS DETAIL**

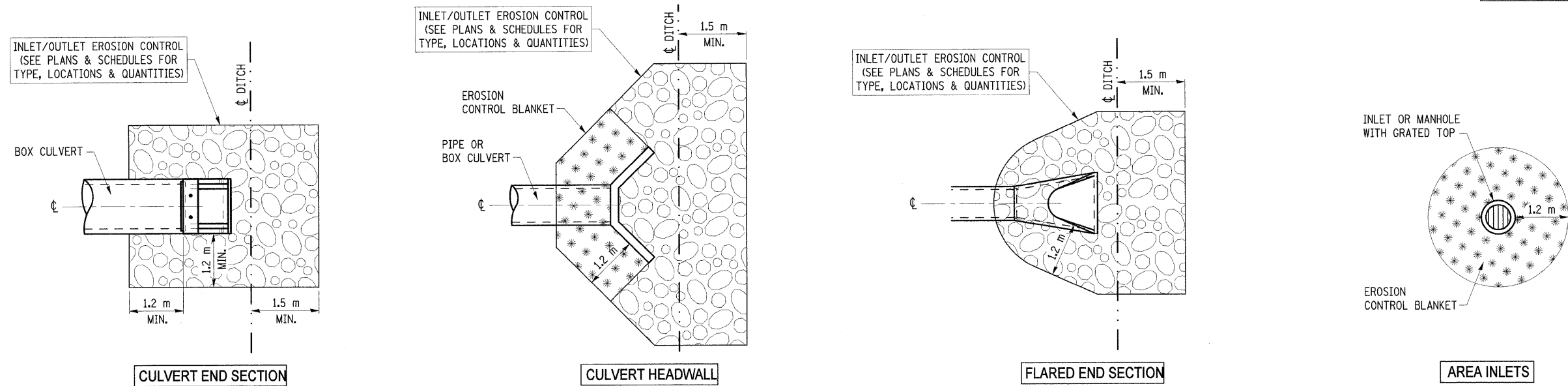


**TYPICAL BENCHING DETAIL FOR EMBANKMENTS**

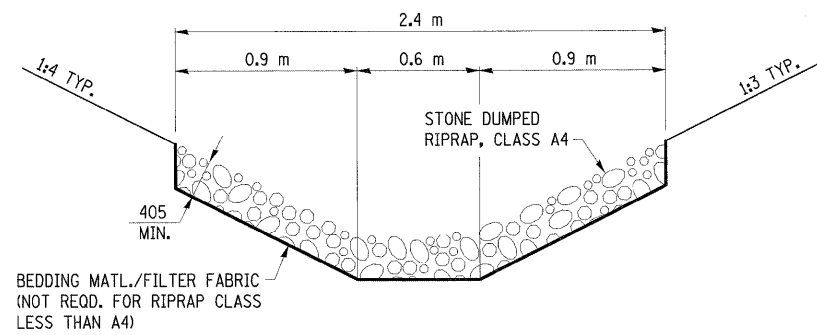
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center"><b>CONCRETE STEPS AND EMBANKMENT BENCHING DETAILS</b></p> <p>SCALE NO SCALE      DRAWN BY KOJ</p> <p>DATE FEBRUARY 6, 2009      CHECKED BY LWJ</p>

PLOT DATE = 2/5/2009  
FILE NAME = H:\4420\Contract 74349\BHT\_120\_detail.dgn

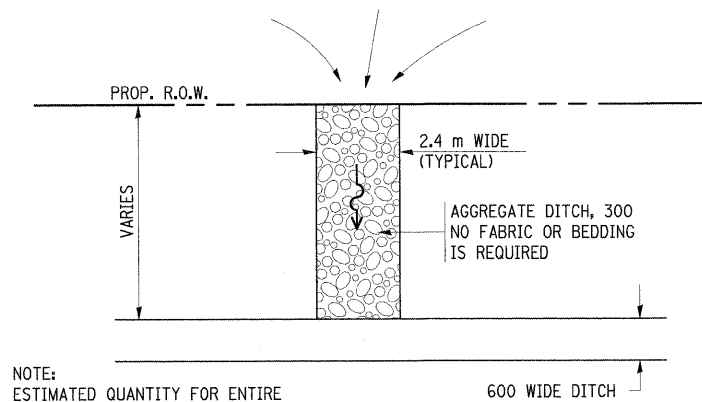
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	124
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



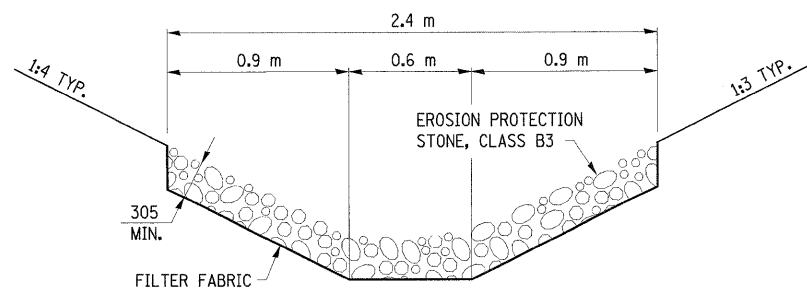
**PERMANENT EROSION CONTROL AT INLET/OUTLET STRUCTURES**



**STONED DUMPED RIPRAP (CLASS A4) DETAIL**



**FIELD DRAINAGE OUTLET DETAIL**



**AGGREGATE DITCH DETAIL**

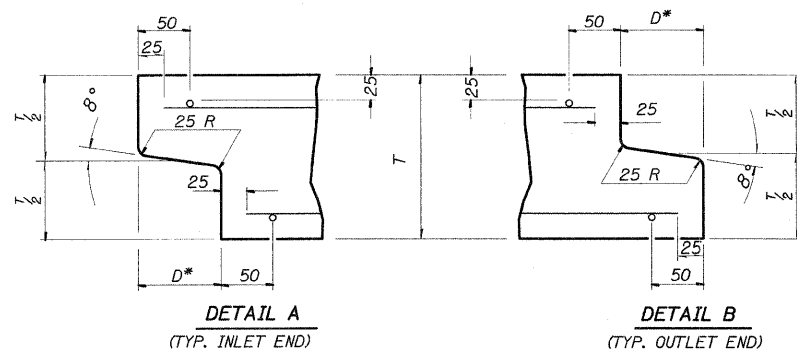
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		PERMANENT EROSION CONTROL DETAILS
SCALE	NO SCALE	DRAWN BY KOJ
DATE	FEBRUARY 6, 2009	CHECKED BY LWJ

PLOT DATE = 2/5/2009  
FILE NAME = H:\V4420\Contract 74349\BHT\_120\_detail.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	125
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

# DETAIL OF PRECAST CONCRETE BOX CULVERT M259M



NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.

\* THE D DIMENSION SHALL CONFORM TO THE MANUFACTURER'S STANDARDS.

AASHTO DESIGNATION M259M  
(ASTM DESIGNATION C-789M)  
DESIGN LOADING = MS18

CULVERT SIZE		DIMENSIONS			
NOMINAL	ACTUAL	T	A	B	C
SPANxRISE (METER)	SPANxRISE (METER)	(MILLIMETERS)	(METER)	(METER)	(MILLIMETERS)
0.6x0.6	0.610x0.610	100	0.810	0.810	100
0.9x0.6	0.914x0.610	100	1.114	0.810	100
0.9x0.9	0.914x0.914	100	1.114	1.114	100
1.2x0.6	1.219x0.610	125	1.469	0.860	125
1.2x0.9	1.219x0.914	125	1.469	1.164	125
1.2x1.2	1.219x1.219	125	1.469	1.469	125
1.5x0.6	1.524x0.610	150	1.824	0.910	150
1.5x0.9	1.524x0.914	150	1.824	1.214	150
1.5x1.2	1.524x1.219	150	1.824	1.519	150
1.5x1.5	1.524x1.524	150	1.824	1.824	150
1.8x0.6	1.829x0.610	175	2.179	0.960	175
1.8x0.9	1.829x0.914	175	2.179	1.264	175
1.8x1.2	1.829x1.219	175	2.179	1.569	175
1.8x1.5	1.829x1.524	175	2.179	1.874	175
1.8x1.8	1.829x1.829	175	2.179	2.179	175
2.1x1.2	2.134x1.219	200	2.534	1.619	200
2.1x1.5	2.134x1.524	200	2.534	1.924	200
2.1x1.8	2.134x1.829	200	2.534	2.229	200
2.1x2.1	2.134x2.134	200	2.534	2.534	200
2.4x1.2	2.438x1.219	200	2.838	1.619	200
2.4x1.5	2.438x1.524	200	2.838	1.924	200
2.4x1.8	2.438x1.829	200	2.838	2.229	200
2.4x2.1	2.438x2.134	200	2.838	2.534	200
2.4x2.4	2.438x2.438	200	2.838	2.838	200
2.7x1.5	2.743x1.524	225	3.193	1.974	225
2.7x1.8	2.743x1.829	225	3.193	2.279	225
2.7x2.1	2.743x2.134	225	3.193	2.584	225
2.7x2.4	2.743x2.438	225	3.193	2.888	225
2.7x2.7	2.743x2.743	225	3.193	3.193	225
3.0x1.5	3.048x1.524	250	3.548	2.024	250
3.0x1.8	3.048x1.829	250	3.548	2.329	250
3.0x2.1	3.048x2.134	250	3.548	2.634	250
3.0x2.4	3.048x2.438	250	3.548	2.938	250
3.0x2.7	3.048x2.743	250	3.548	3.243	250
3.0x3.0	3.048x3.048	250	3.548	3.548	250
3.3x1.2	3.353x1.219	275	3.903	1.769	275
3.3x1.8	3.353x1.829	275	3.903	2.379	275
3.3x2.4	3.353x2.438	275	3.903	2.988	275
3.3x3.0	3.353x3.048	275	3.903	3.598	275
3.3x3.3	3.353x3.353	275	3.903	3.903	275
3.6x1.2	3.658x1.219	300	4.258	1.819	300
3.6x1.8	3.658x1.829	300	4.258	2.429	300
3.6x2.4	3.658x2.438	300	4.258	3.038	300
3.6x3.0	3.658x3.048	300	4.258	3.648	300
3.6x3.6	3.658x3.658	300	4.258	4.258	300

**GENERAL NOTES**

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04(d) OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 35 MPa AFTER 28 DAYS.

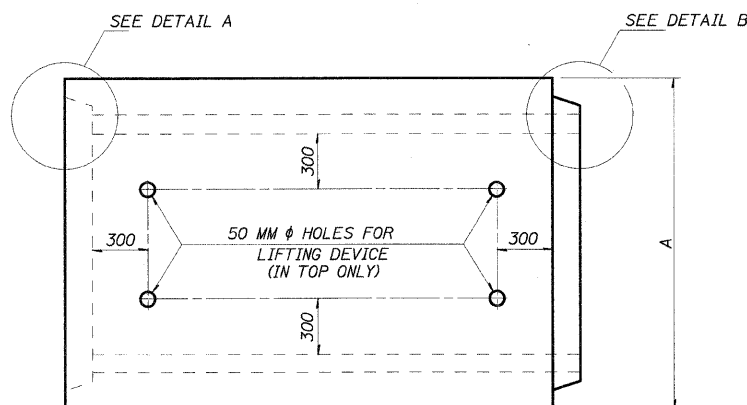
THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 542.04(d) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS  $A_{s1}$ ,  $A_{s3}$ , AND  $A_{s4}$  DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASSHTO M259M. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASSHTO M55M.

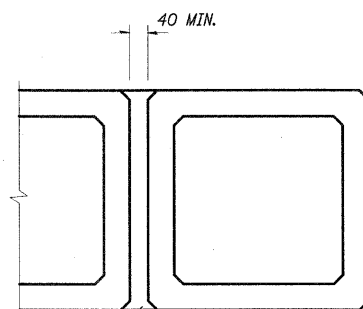
LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.12 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

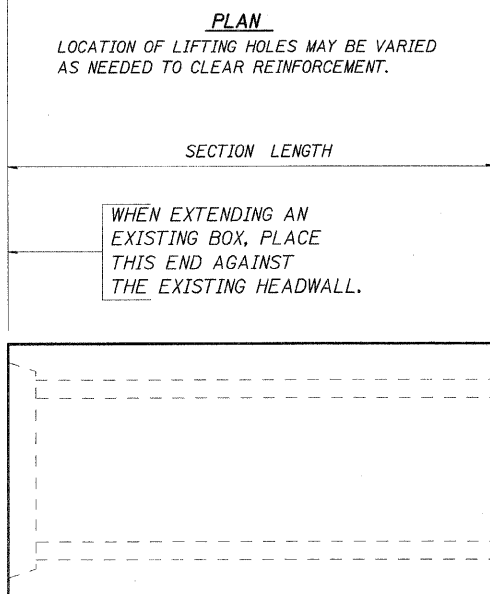
ALL DIMENSIONS ARE DETAILED IN MILLIMETERS UNLESS OTHERWISE NOTED.



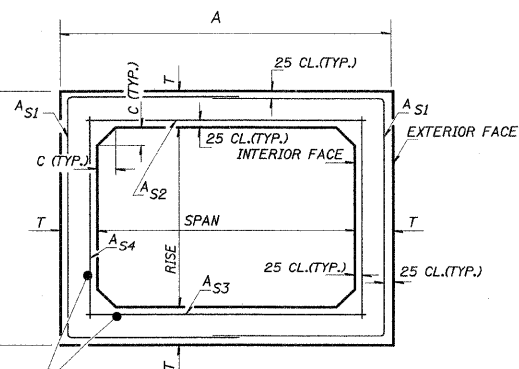
LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.



CLASS SI CONCRETE



ELEVATION



CROSS SECTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION**

SCALE NO SCALE  
DATE FEBRUARY 6, 2009  
DRAWN BY KOJ  
CHECKED BY LWJ

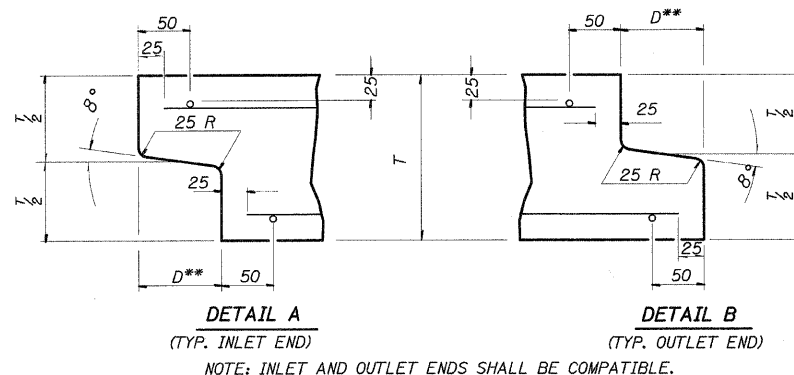
PLOT DATE = 2/25/2009  
FILE NAME = H:\1428\Contract\sect 74349\SH1\_122.dwt\1.sldwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	126
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

# DETAIL OF PRECAST CONCRETE

## BOX CULVERT M273M

(WITH LESS THAN 600 MM OF COVER)  
 AASHTO DESIGNATION M273M  
 (ASTM DESIGNATION C-850M)  
 DESIGN LOADING = MS18



DETAIL A

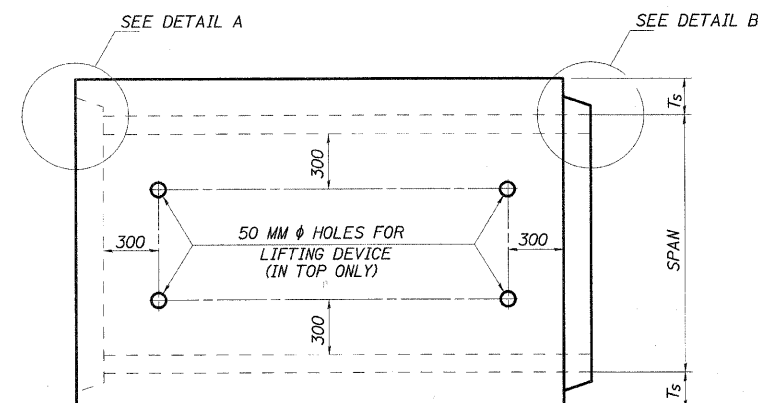
(TYP. INLET END)

DETAIL B

(TYP. OUTLET END)

NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.

\*\* THE D DIMENSION SHALL CONFORM TO THE MANUFACTURER'S STANDARDS.

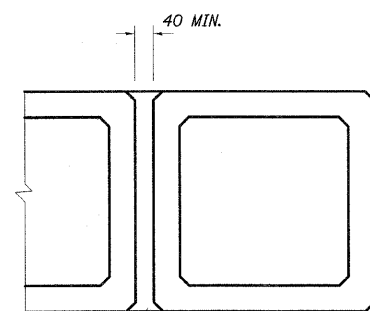


PLAN

LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.

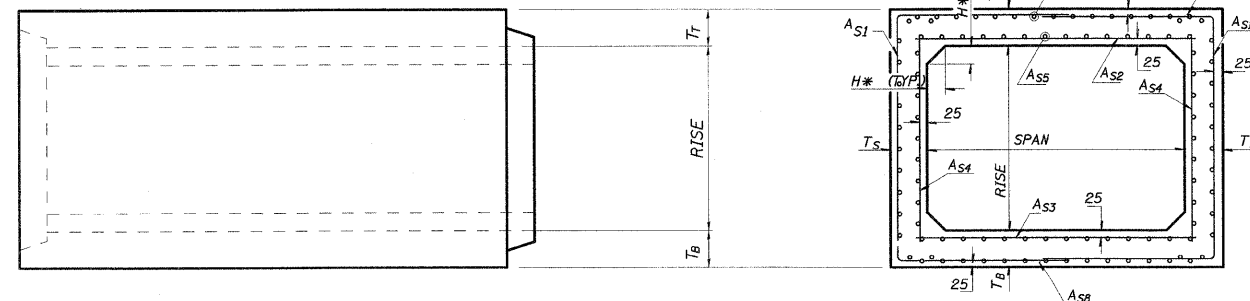
SECTION LENGTH

WHEN EXTENDING AN EXISTING BOX, PLACE THIS END AGAINST THE EXISTING HEADWALL.



CLASS SI CONCRETE

MULTIPLE UNIT PLACEMENT



ELEVATION

CROSS SECTION

\* THE HAUNCH DIMENSION, H, IS EQUAL TO THE WALL THICKNESS, T<sub>s</sub>.

### GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04(d) OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 35 MPa AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 542.04(d) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS A<sub>st</sub>, A<sub>sb</sub> ETC. DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASSHTO M273M.

REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASSHTO M55M. LONGITUDINAL DISTRIBUTION REINFORCEMENT MAY CONSIST OF WELDED WIRE FABRIC OR DEFORMED BARS CONFORMING TO ASSHTO M31M, M42M, OR M53M, GRADE 400.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.12 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

THE P.C.C. PAVEMENT PATCH REINFORCED WITH PAVEMENT FABRIC (STANDARD 42070) WILL BE CONSTRUCTED OVER THE CULVERT. THE PATCH SHALL BE FULL PAVEMENT WIDTH, AND THE LENGTH SHALL EXTEND 600 MM BEYOND EACH SIDE OF THE CULVERT.

ALL DIMENSIONS ARE DETAILED IN MILLIMETERS UNLESS OTHERWISE NOTED.

CULVERT SIZE (METERS)				DIMENSIONS (MILLIMETERS)		
NOMINAL		ACTUAL		T <sub>T</sub>	T <sub>B</sub>	T <sub>S</sub>
SPAN	RISE	SPAN	RISE			
0.9	0.6	0.914	0.610	175	150	100
0.9	0.9	0.914	0.914	175	150	100
1.2	0.6	1.219	0.610	190	150	125
1.2	0.9	1.219	0.914	190	150	125
1.2	1.2	1.219	1.219	190	150	125
1.5	0.9	1.524	0.914	200	175	150
1.5	1.2	1.524	1.219	200	175	150
1.5	1.5	1.524	1.524	200	175	150
1.8	0.9	1.829	0.914	200	175	175
1.8	1.2	1.829	1.219	200	175	175
1.8	1.5	1.829	1.524	200	175	175
1.8	1.8	1.829	1.829	200	175	175
2.1	1.2	2.134	1.219	200	200	200
2.1	1.5	2.134	1.524	200	200	200
2.1	1.8	2.134	1.829	200	200	200
2.1	2.1	2.134	2.134	200	200	200
2.4	1.2	2.438	1.219	200	200	200
2.4	1.5	2.438	1.524	200	200	200
2.4	1.8	2.438	1.829	200	200	200
2.4	2.1	2.438	2.134	200	200	200
2.4	2.4	2.438	2.438	200	200	200
2.7	1.5	2.743	1.524	225	225	225
2.7	1.8	2.743	1.829	225	225	225
2.7	2.1	2.743	2.134	225	225	225
2.7	2.4	2.743	2.438	225	225	225
2.7	2.7	2.743	2.743	225	225	225
3.0	1.5	3.048	1.524	250	250	250
3.0	1.8	3.048	1.829	250	250	250
3.0	2.1	3.048	2.134	250	250	250
3.0	2.4	3.048	2.438	250	250	250
3.0	2.7	3.048	2.743	250	250	250
3.0	3.0	3.048	3.048	250	250	250
3.3	1.2	3.353	1.219	275	275	275
3.3	1.8	3.353	1.829	275	275	275
3.3	2.4	3.353	2.438	275	275	275
3.3	3.0	3.353	3.048	275	275	275
3.3	3.3	3.353	3.353	275	275	275
3.6	1.2	3.658	1.219	300	300	300
3.6	1.8	3.658	1.829	300	300	300
3.6	2.4	3.658	2.438	300	300	300
3.6	3.0	3.658	3.048	300	300	300
3.6	3.6	3.658	3.658	300	300	300

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

### DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

SCALE NO SCALE DRAWN BY KOJ  
 DATE FEBRUARY 6, 2009 CHECKED BY LWJ

PLOT DATE = 2/25/2009  
 FILE NAME = H:\4420\Contract 74349\SR1120.dwg

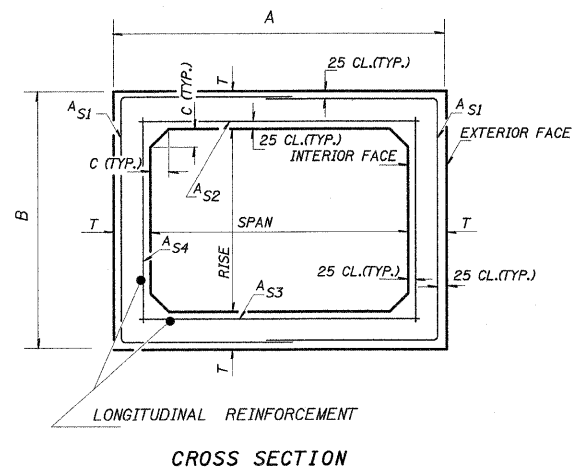
H. M. & G. NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	127
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

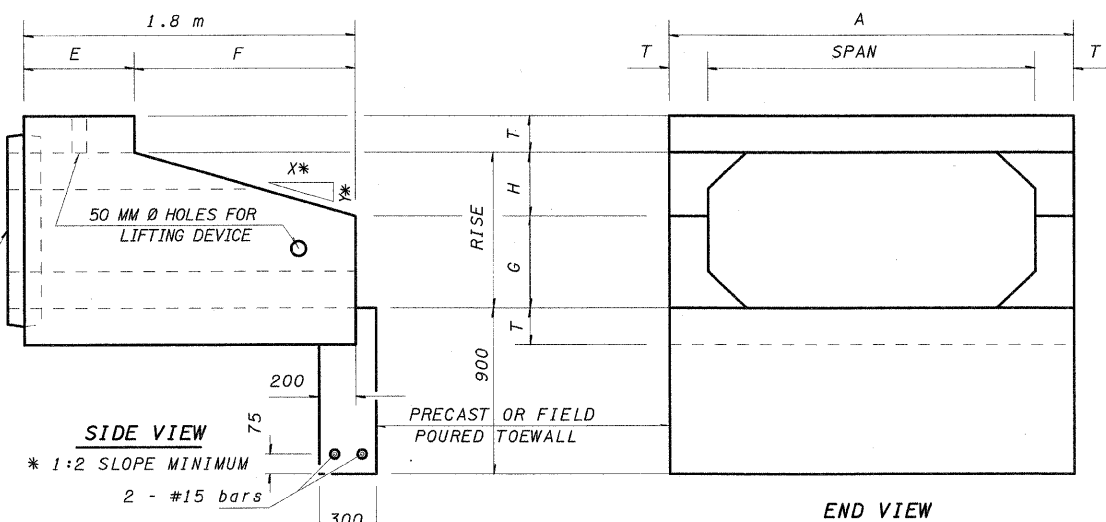
# DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION

AASHTO DESIGNATION M259M  
(ASTM DESIGNATION C-789M)  
DESIGN LOADING = MS18

NOTE: THE DIMENSIONS INDICATED ARE FOR END SECTIONS THAT ARE TO BE USED WITH PRECAST BOX CULVERT SECTIONS DESIGNED FOR 600 MM OR MORE OF FILL. THE DIMENSIONS MUST BE MODIFIED FOR THE END SECTION TO BE COMPATIBLE WITH PRECAST CULVERT SECTIONS DESIGNED FOR LESS THAN 600 MM OF FILL.



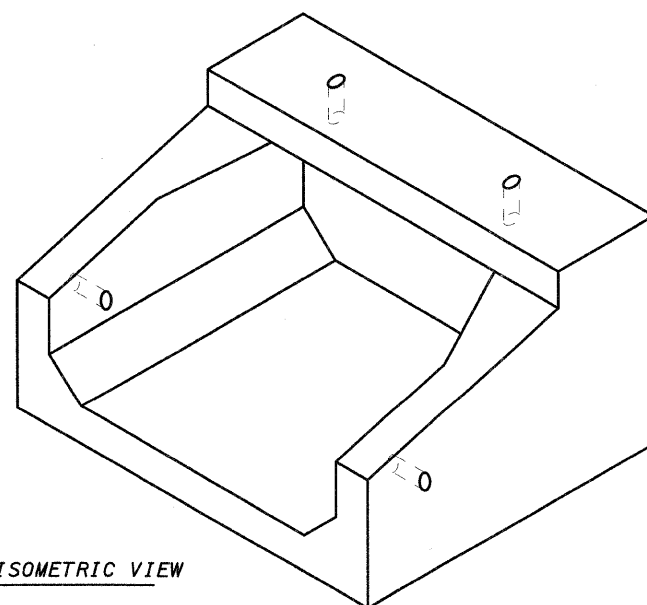
CROSS SECTION



SIDE VIEW

END VIEW

END CONNECTION TO FIT PRECAST BOX CULVERT (BELL OR SPIGOT MAY BE OMITTED WHEN COLLARING TO AN EXISTING BOX OR HEADWALL).



ISOMETRIC VIEW

CULVERT SIZE		DIMENSIONS **								
NOMINAL	ACTUAL	T	A	B	C	E	F	G	H	SLOPE
SPANxRISE (METER)	SPANxRISE (METER)	(MM)	(METER)	(METER)	(MM)	(METER)	(METER)	(METER)	(METER)	(Y:X)
0.6x0.6	0.610x0.610	100	0.810	0.810	100	0.900	0.900	0.310	0.300	1:3
0.9x0.6	0.914x0.610	100	1.114	0.810	100	0.900	0.900	0.310	0.300	1:3
0.9x0.9	0.914x0.914	100	1.114	1.114	100	0.600	1.200	0.514	0.400	1:3
1.2x0.6	1.219x0.610	125	1.469	0.860	125	0.900	0.900	0.310	0.300	1:3
1.2x0.9	1.219x0.914	125	1.469	1.164	125	0.600	1.200	0.514	0.400	1:3
1.2x1.2	1.219x1.219	125	1.469	1.469	125	0.600	1.200	0.619	0.600	1:2
1.5x0.6	1.524x0.610	125	1.774	0.860	150	0.900	0.900	0.310	0.300	1:3
1.5x0.9	1.524x0.914	150	1.824	1.214	150	0.600	1.200	0.514	0.400	1:3
1.5x1.2	1.524x1.219	150	1.824	1.519	150	0.600	1.200	0.619	0.600	1:2
1.5x1.5	1.524x1.524	150	1.824	1.824	150	0.600	1.200	0.924	0.600	1:2
1.8x0.6	1.829x0.610	175	2.179	0.960	175	0.900	0.900	0.310	0.300	1:3
1.8x0.9	1.829x0.914	175	2.179	1.264	175	0.600	1.200	0.514	0.400	1:3
1.8x1.2	1.829x1.219	175	2.179	1.569	175	0.600	1.200	0.619	0.600	1:2
1.8x1.5	1.829x1.524	175	2.179	1.874						
1.8x1.8	1.829x1.829	175	2.179	2.179						
2.1x1.2	2.134x1.219	200	2.534	1.619	200	0.600	1.200	0.619	0.600	1:2
2.1x1.5	2.134x1.524	200	2.534	1.924						
2.1x1.8	2.134x1.829	200	2.534	2.229						
2.1x2.1	2.134x2.134	200	2.534	2.534						
2.4x1.2	2.438x1.219	200	2.838	1.619	200	0.600	1.200	0.619	0.600	1:2
2.4x1.5	2.438x1.524	200	2.838	1.924						
2.4x1.8	2.438x1.829	200	2.838	2.229						
2.4x2.1	2.438x2.134	200	2.838	2.534						
2.4x2.4	2.438x2.438	200	2.838	2.838						
2.7x1.5	2.743x1.524	225	3.193	1.974						
2.7x1.8	2.743x1.829	225	3.193	2.279						
2.7x2.1	2.743x2.134	225	3.193	2.584						
2.7x2.4	2.743x2.438	225	3.193	2.888						
2.7x2.7	2.743x2.743	225	3.193	3.193						
3.0x1.5	3.048x1.524	250	3.548	2.024						
3.0x1.8	3.048x1.829	250	3.548	2.329						
3.0x2.1	3.048x2.134	250	3.548	2.634						
3.0x2.4	3.048x2.438	250	3.548	2.938						
3.0x2.7	3.048x2.743	250	3.548	3.243						
3.0x3.0	3.048x3.048	250	3.548	3.548						
3.3x1.2	3.353x1.219	275	3.903	1.769						
3.3x1.8	3.353x1.829	275	3.903	2.379						
3.3x2.4	3.353x2.438	275	3.903	2.988						
3.3x3.0	3.353x3.048	275	3.903	3.598						
3.3x3.3	3.353x3.353	275	3.903	3.903						
3.6x1.2	3.658x1.219	300	4.258	1.819						
3.6x1.8	3.658x1.829	300	4.258	2.429						
3.6x2.4	3.658x2.438	300	4.258	3.038						
3.6x3.0	3.658x3.048	300	4.258	3.648						
3.6x3.6	3.658x3.658	300	4.258	4.258						

CULVERTS WITH RISE > 1.2M REQUIRE CAST-IN-PLACE END SECTIONS

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04(a) OF THE STANDARD SPECIFICATIONS.

THE TERMS A<sub>s1</sub>, A<sub>s2</sub>, A<sub>s3</sub>, AND A<sub>s4</sub> DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259M. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO SPECIFICATIONS M55M.

MINIMUM CONCRETE STRENGTH SHALL BE 35 MPa AFTER 28 DAYS.

ALL DIMENSIONS ARE DETAILED IN MILLIMETERS UNLESS OTHERWISE NOTED.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH ACCORDANCE WITH ARTICLE 542.04(d) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE END SECTIONS ARE IN PLACE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION**

SCALE NO SCALE DRAWN BY KOJ  
DATE FEBRUARY 6, 2009 CHECKED BY LWJ

PLOT DATE = 2/5/2009  
FILE NAME = H:\4420\Contract 74349\SHF\_120L.dwg

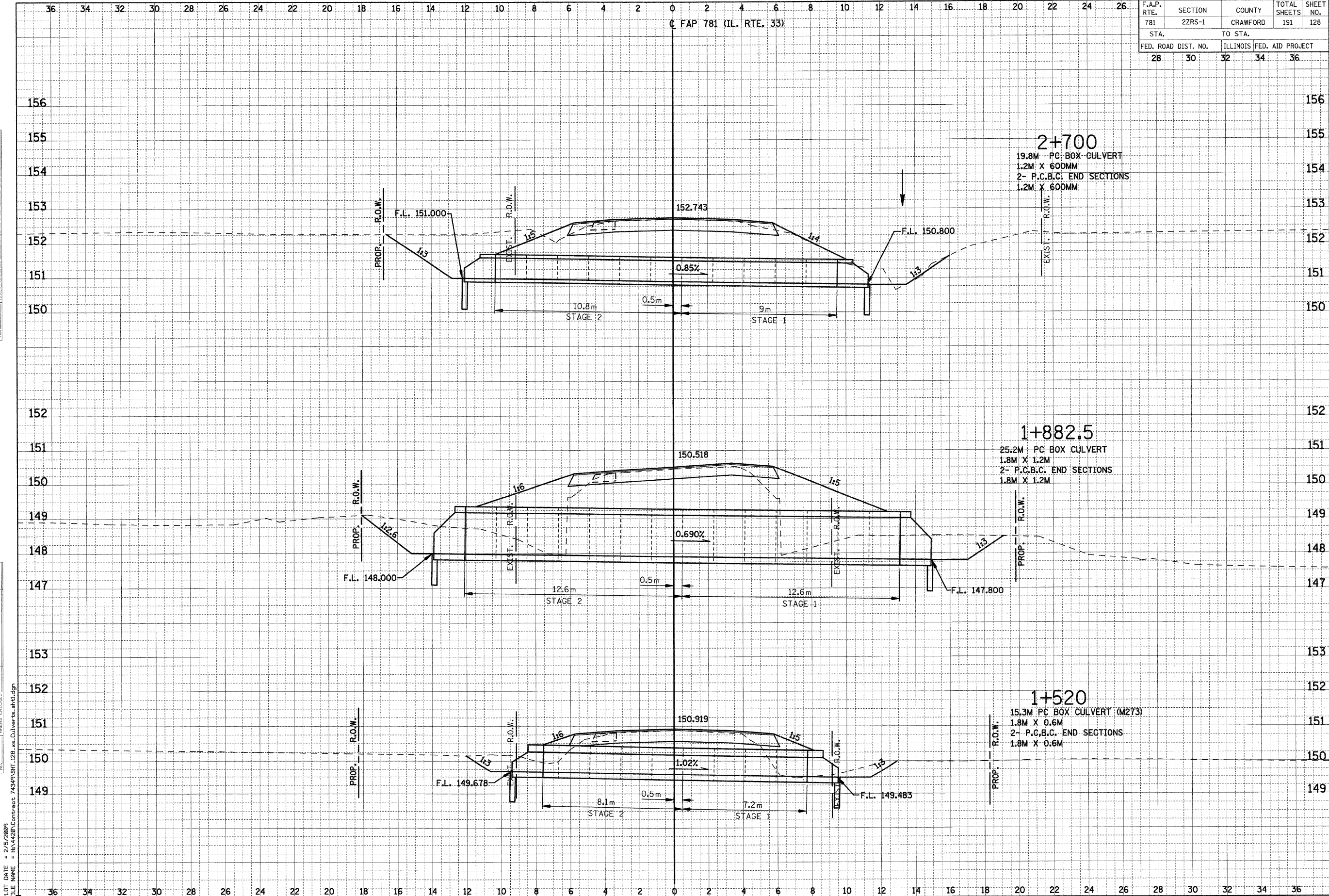


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	128
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
28 30		32	34	36

CL FAP 781 (IL. RTE. 33)

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_



PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SRIT\_128.xls\Culverts.sht.dgn

HMG JOB NO. 4420



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	129
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

**GENERAL NOTES**

- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 18.15 kN, and 20 mm  $\phi$  hooked bolts shall extend a minimum of 250 mm into new concrete.
- Reinforcement bars shall conform to the requirements of AASHTO M-31M or M-322M, Grade 400.
- Reinforcement bars designated (E) shall be epoxy coated.
- All dimensions are in millimeters (mm) except as noted.
- Precast reinforced concrete box sections shall conform to AASHTO M-259M and M-273M.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

**TOTAL BILL OF MATERIAL**

(Culverts E.C. 101, 105) (Box Culvert Nos. 1, & 4)

Item	Unit	Total
M5030350 Concrete Structures	cu. m.	4.9
M5080205 Reinforcement Bars, Epoxy Coated	kg	880
Precast Concrete Box Culvert (900x450)	m	15.2
* M5401005 Precast Concrete Box Culvert (600x600)	m	15.6
* 5401001 Box Culvert End Section, Culvert No. 1	Each	2
* 5401004 Box Culvert End Section, Culvert No. 4	Each	2
M5403220 Expansion Bolts (M20x250)	Each	206
M2810707 Stone Riprap, Class A4	sq. m.	See Plans
M5050405 Furnishing & Erecting Structural Steel	kg	260
MX033694 Structural Repair of Concrete (Depth Equal to or Less than 125mm)	sq. m.	3.2
M5900200 Epoxy Crack Injection	m	5
MX032196 Polymer Modified Portland Cement Mortar	sq. m.	25.9
M5930100 Controlled Low-Strength Material	cu. m.	7.0

\* Non-standard size.

**INDEX OF SHEETS**

- S1 Gen. Notes & Bill of Material
- S2 General Plan & Elevation, Box Culvert No. 1
- S3 General Plan & Elevation, Box Culvert No. 4
- S4 Concrete Repair Details, Box Culvert No. 4
- S5 Precast Section Details
- S6 Precast End Section Details
- S7 Cast-In-Place Collar Details
- S8 Miscellaneous Details
- S9 Plug & Fill Details, E.C. #101 And E.C. #105

**DESIGN SPECIFICATIONS**

2002 AASHTO Specifications

**DESIGN STRESSES (New Construction)**

<i>Field Units</i>	<i>Precast Units</i>
$f'_c = 24 \text{ MPa}$	$f'_c = 35 \text{ MPa}$
$f_y = 400 \text{ MPa (Reinf.)}$	$f_y = 450 \text{ MPa (Welded wire fabric)}$
$f_y = 250 \text{ MPa (Str. Steel)}$	

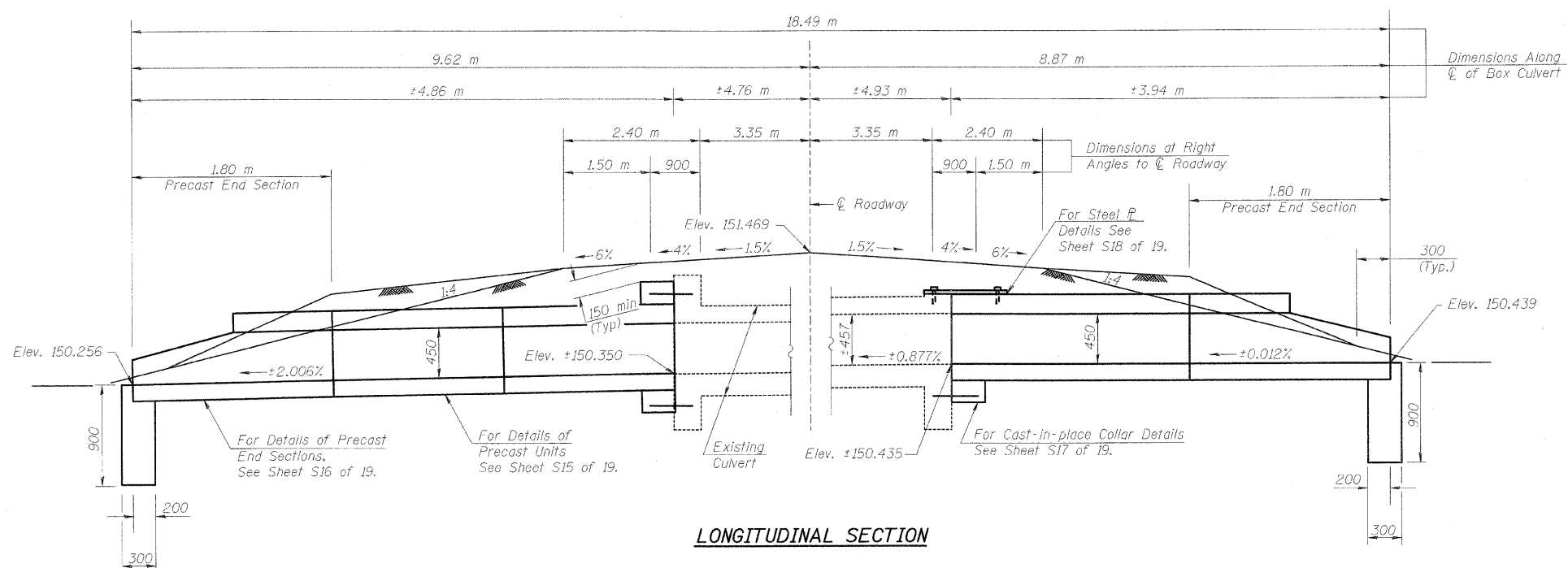
**LOADING MS18**

Allow 1.2 kN/m<sup>2</sup> for future wearing surface

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION BOX CULVERT EXTENSIONS GEN. NOTES & BILL OF MATERIAL
NAME	DATE	
LWJ	2-02-09	SCALE NONE DATE DECEMBER 10, 2006 DRAWN BY MLB CHECKED BY MTH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	130
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Existing Structure: The structure is a single barrel 914 mm x 457 mm box culvert at a skew of 0°52'01" right forward. The culvert has an overall length of 9.69 m. The contractor shall extend the culvert on each end for the dimensions shown.

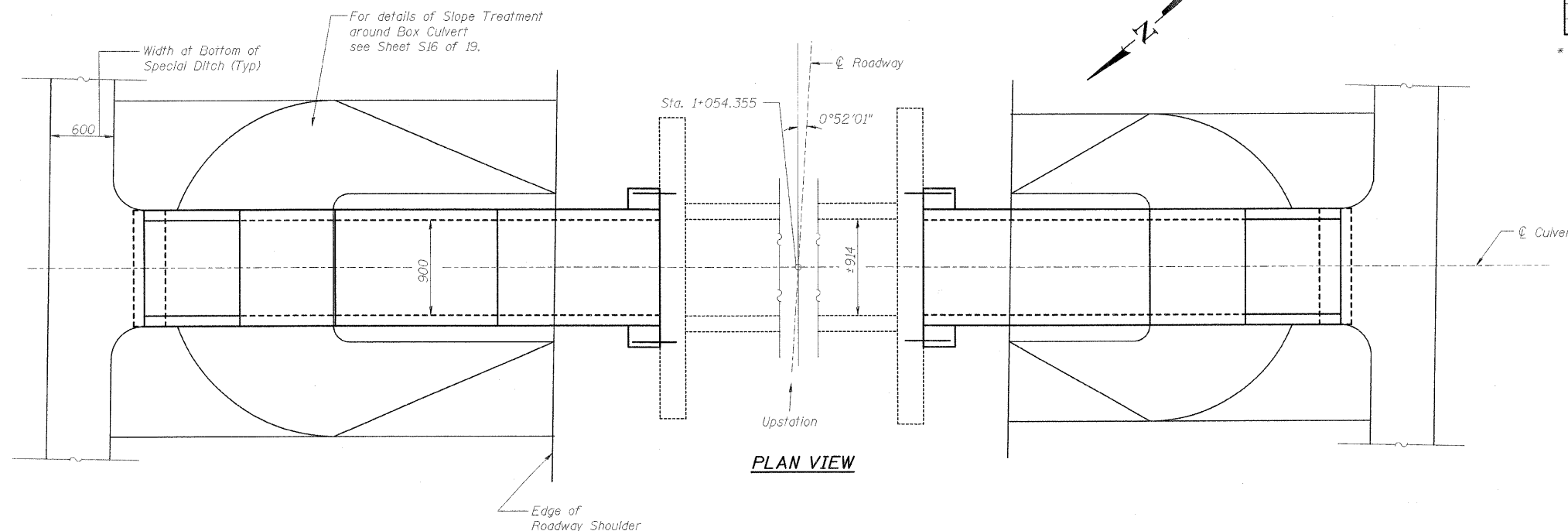


LONGITUDINAL SECTION

BILL OF MATERIAL - BOX CULVERT NO. 1

Item	Unit	Total
M5030350 Concrete Structures	cu. m.	0.5
M5080205 Reinforcement Bars, Epoxy Coated	kg	90
* Precast Concrete Box Culvert (900x450)	m	5.2
* 5401001 Box Culvert End Section, Culvert No. 1	Each	2
M5403220 Expansion Bolts (M20x250)	Each	21
M2810707 Stone Riprap, Class A4	sq. m.	See Plans
M5050405 Furnishing & Erecting Structural Steel	kg	130

\* Non-standard size.



PLAN VIEW

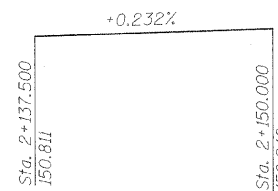
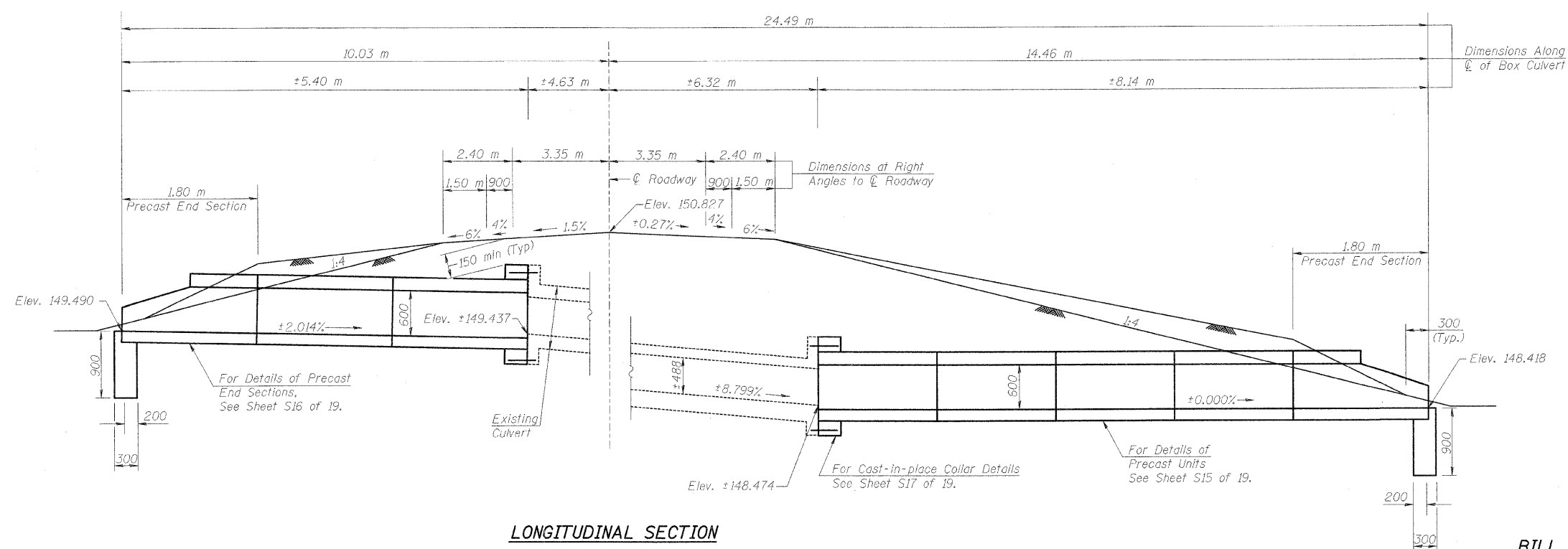
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION BOX CULVERT EXTENSIONS GENERAL PLAN & ELEVATION BOX CULV. NO. 1, STA. 1+054.355
NAME	DATE	
LWJ	2-02-09	SCALE NONE DATE DECEMBER 10, 2006 DRAWN BY MLB CHECKED BY MTH

PLOT DATE = 2/5/2009  
FILE NAME = H:\1420\Contract 74349\SH1.130.LS-02.dgn

LIN NO. 9803

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	131
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Existing Structure: The structure is a single barrel 610 mm x 488 mm box culvert at a skew of 0°49'55" right forward. The culvert has an overall length of 10.95 m. The contractor shall extend the culvert on each end for the dimensions shown.



**CURVE P2 DATA**

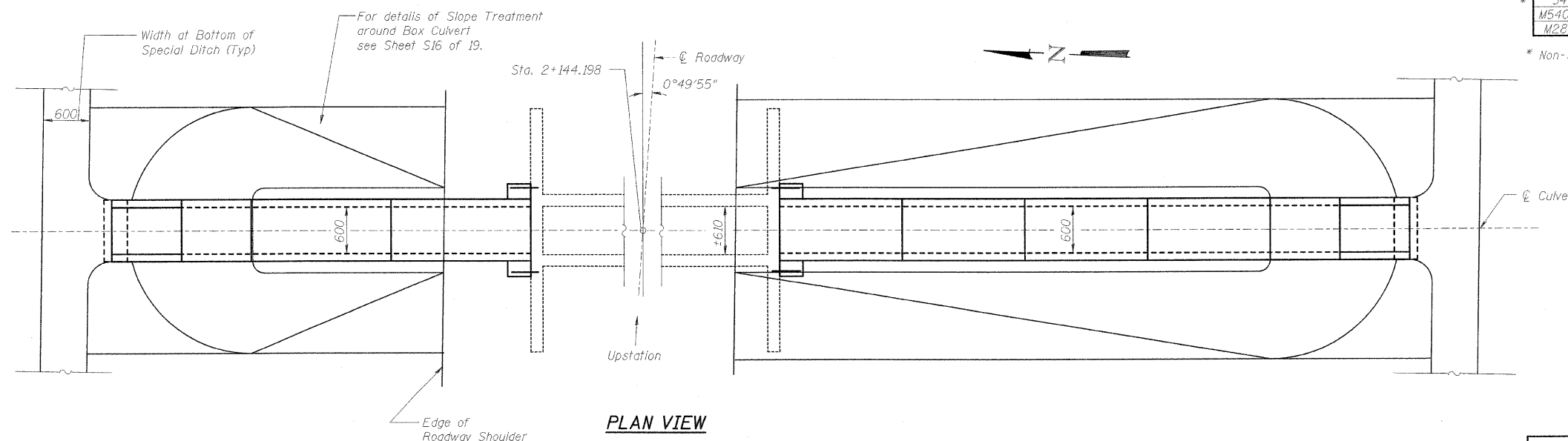
PI Sta. 2+006.106  
 $\Delta = 41^\circ 59' 15''$  (LT)  
 T = 118.158 m  
 R = 307.912 m  
 L = 225.644 m  
 E = 21.893 m  
 S.E. = 6.0%  
 PC Sta. 1+887.948  
 PT Sta. 2+113.592

Affain S.E. Sta. 1+847.948 to 1+901.948  
 And Sta. 2+099.592 to 2+153.592

**BILL OF MATERIAL - BOX CULVERT NO. 4**

Item	Unit	Total
M5030350 Concrete Structures	cu. m.	0.5
M5080205 Reinforcement Bars, Epoxy Coated	kg	100
M5401005 Precast Concrete Box Culvert (600x600)	m	9.9
5401004 Box Culvert End Section, Culvert No. 4	Each	2
M5403220 Expansion Bolts (M20x250)	Each	24
M2810707 Stone Riprap, Class A4	sq. m.	See Plans

\* Non-standard size.



REVISIONS	
NAME	DATE
LWJ	2-02-09

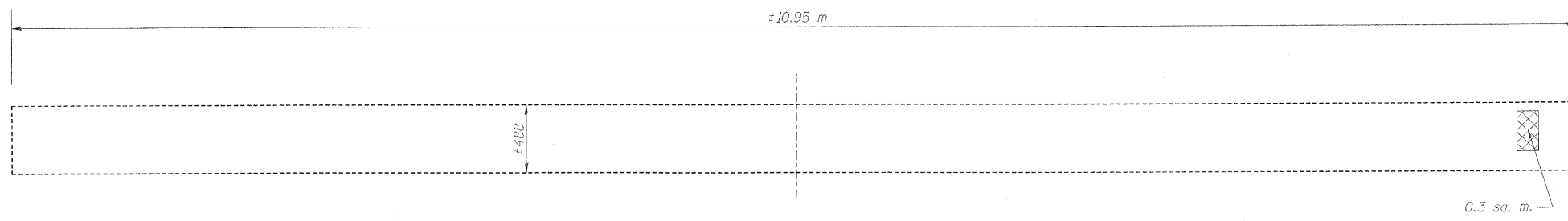
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BOX CULVERT EXTENSIONS**  
**GENERAL PLAN & ELEVATION**  
**BOX CULV. NO. 4, STA. 2+144.198**

SCALE NONE DRAWN BY MLB  
 DATE DECEMBER 10, 2006 CHECKED BY MTH

LIN NO. 9803

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract\74349\SH1.LIN.S-02.dgn

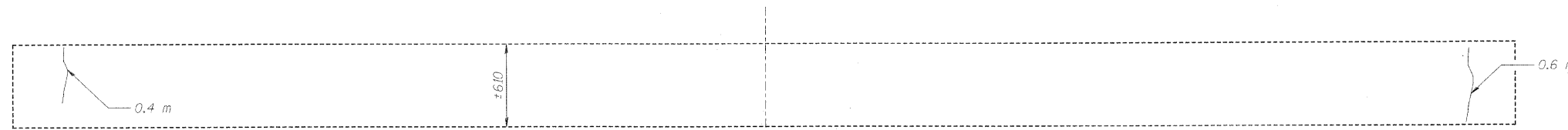
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	22RS-1	CRAWFORD	191	132
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



**WEST WALL**  
(Looking West)

**Note:**

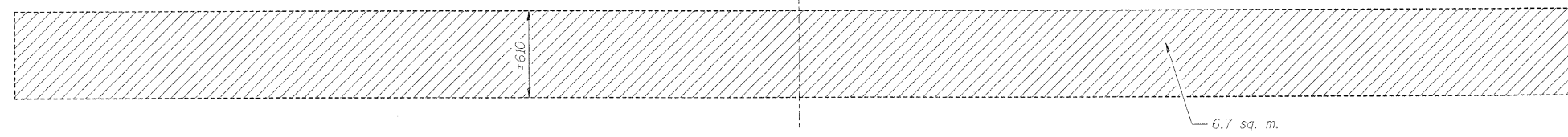
The quantities shown are for estimating purposes only. The actual area to be repaired will be determined by the Engineer at the time of construction. Actual repair locations shall be shown on the "As Built" plans.



**TOP SLAB**

**LEGEND**

- Polymer Modified Portland Cement Mortar
- Structural Repair of Concrete (Depth Equal to or Less than 125mm)
- Epoxy Crack Injection
- m - Meter
- sq. m. - Square Meter

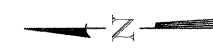


**BOTTOM SLAB**

**BILL OF MATERIAL - BOX CULVERT NO. 4**

Item	Unit	Total
MX033694 Structural Repair of Concrete (Depth Equal to or Less than 125mm)	sq. m.	0.4
M5900200 Epoxy Crack Injection	m	1.2
MX032196 Polymer Modified Portland Cement Mortar	sq. m.	8.0

Quantity increased by 20% to account for deterioration since field inspection.

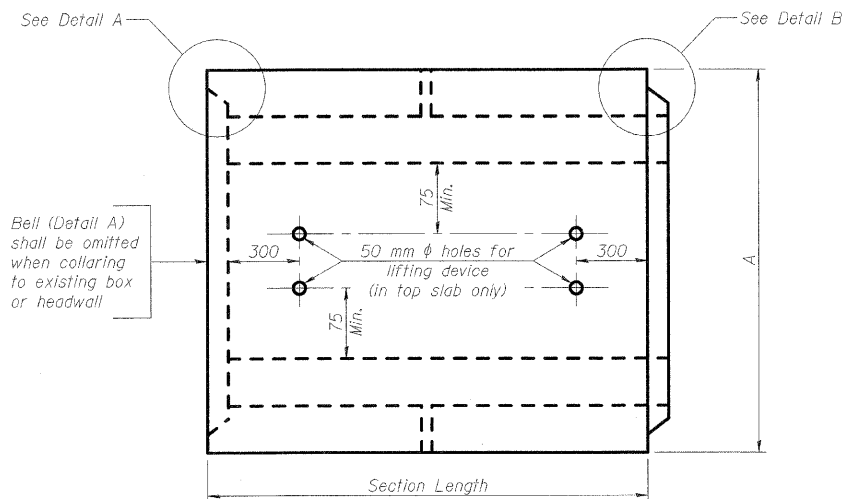


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION BOX CULVERT EXTENSIONS CONCRETE REPAIR DETAILS BOX CULV. NO. 4, STA. 2+144.198
NAME	DATE	
LWJ	2-02-09	SCALE NONE DATE DECEMBER 10, 2006 DRAWN BY MLB CHECKED BY MTH

PLOT DATE = 2/5/2009  
FILE NAME = H:\4428\Contract 74349\SHR\132\_S-04.dgn

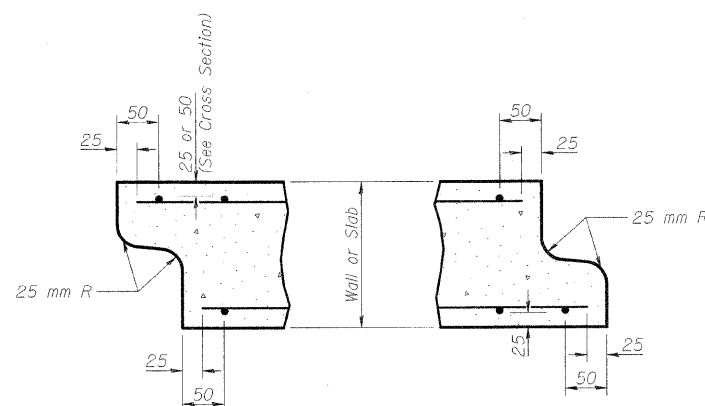
LIN NO. 9803

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	133
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**PLAN**

Location of lifting holes may be varied as needed to clear reinforcement.



**DETAIL A**

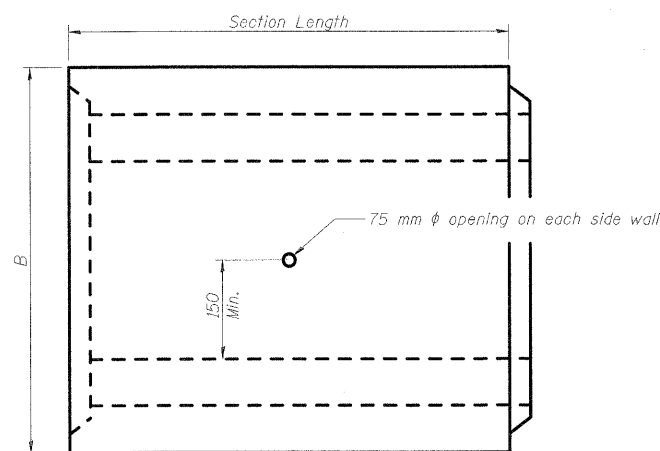
(Typ. Inlet End)

**DETAIL B**

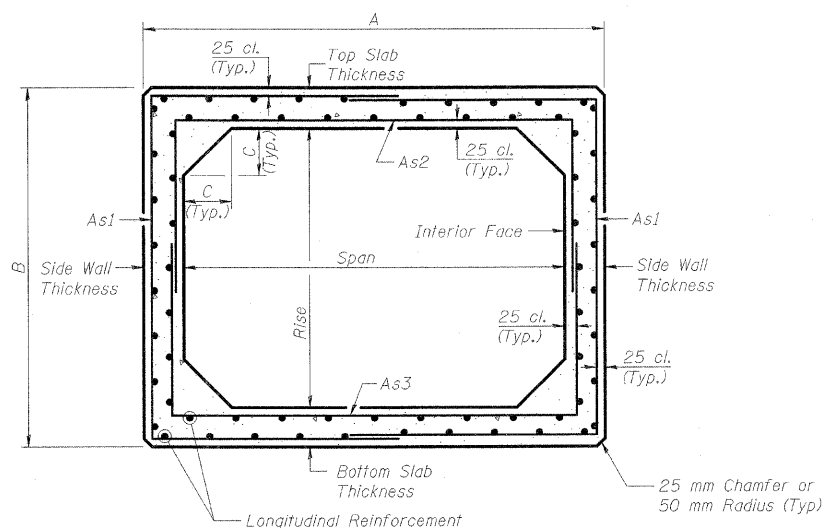
(Typ. Outlet End)

NOTES: Inlet and outlet ends shall be compatible. End detail is subject to variation by fabricator.

Box Culvert No.	Span	Rise	Fill Depth at Shoulder	Design Specifications
1	900	450	< 0.6m	M-273M
4	600	600	< 0.6m	M-273M

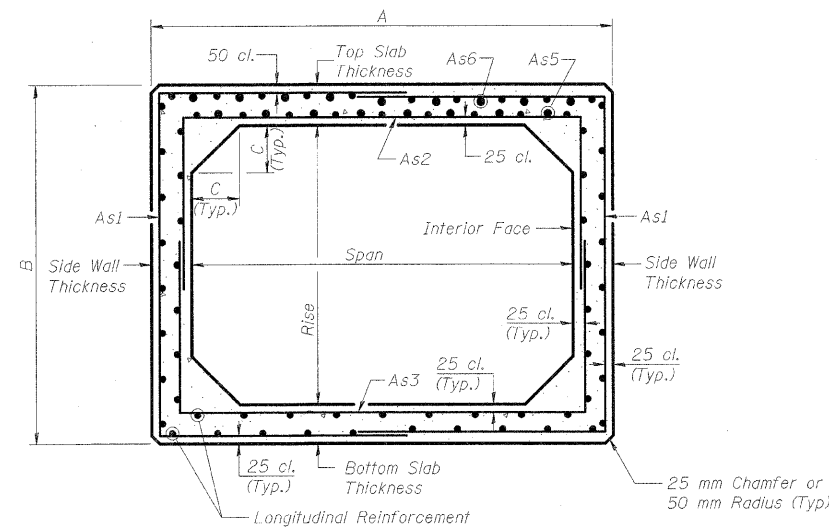


**ELEVATION**



**CROSS SECTION**

(AASHTO M-259M)



**CROSS SECTION**

(AASHTO M-273M)

**GENERAL NOTES**

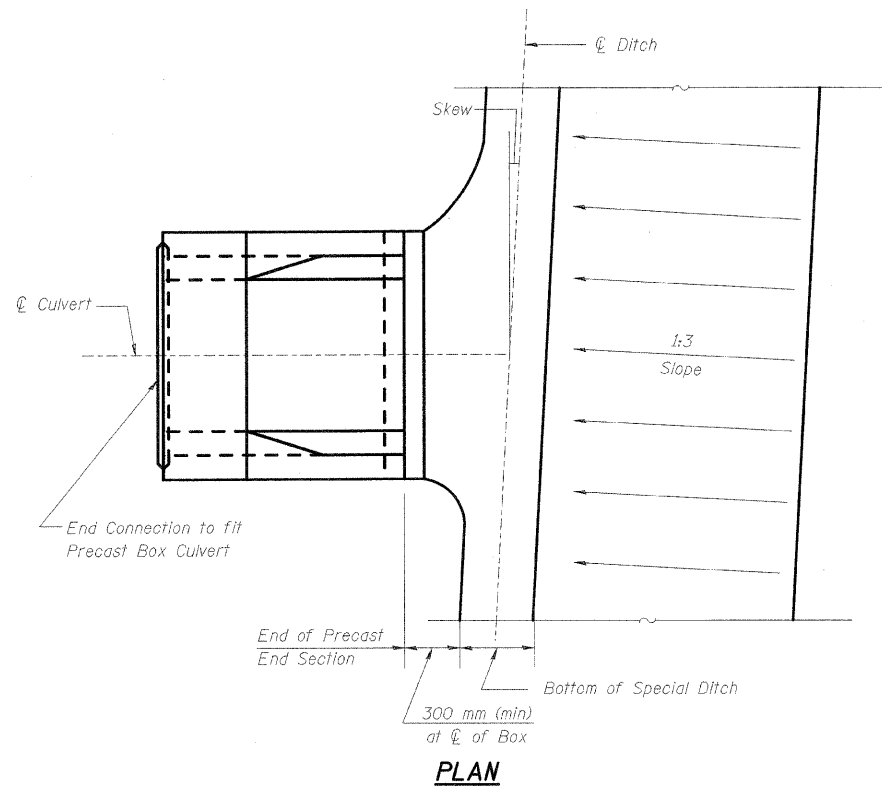
1. The Contractor shall determine box culvert dimensions A, B & C and reinforcement requirements which satisfy AASHTO M-259M or M-273M.
2. The terms As1 thru As6 denote the required steel areas for reinforcement as specified in AASHTO M-259M and M-273M.
3. Reinforcement shall be welded wire fabric conforming to ASTM specifications A-185.
4. Splicing and laps shall conform to AASHTO M-259 and ASTM C-789.
5. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
6. Edge beam reinforcement shall be provided per requirements of AASHTO M-273M.

REVISIONS	
NAME	DATE
LWJ	2-02-09

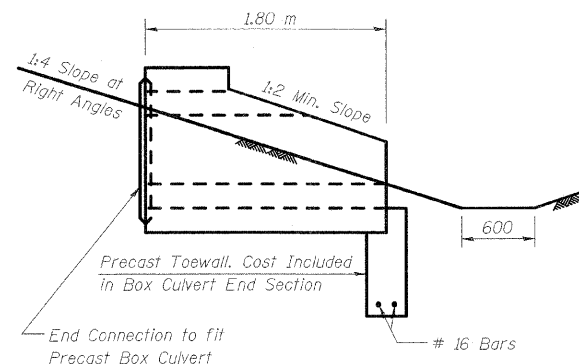
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BOX CULVERT EXTENSIONS**  
**PRECAST SECTION DETAILS**

SCALE NONE DRAWN BY MLB  
 DATE DECEMBER 10, 2006 CHECKED BY MTH

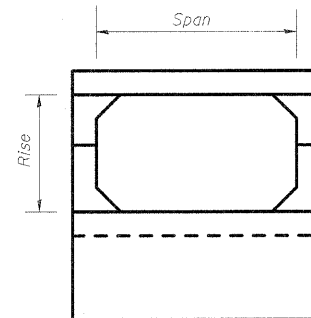
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	134
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



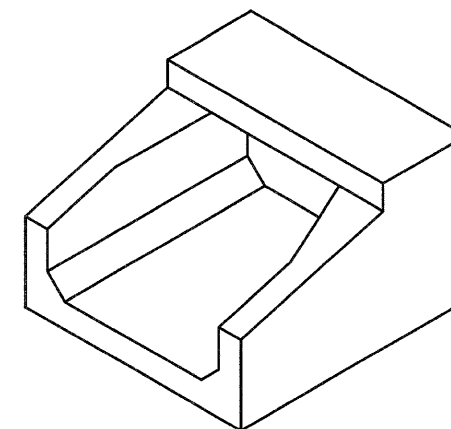
**PLAN**



**SIDE VIEW**



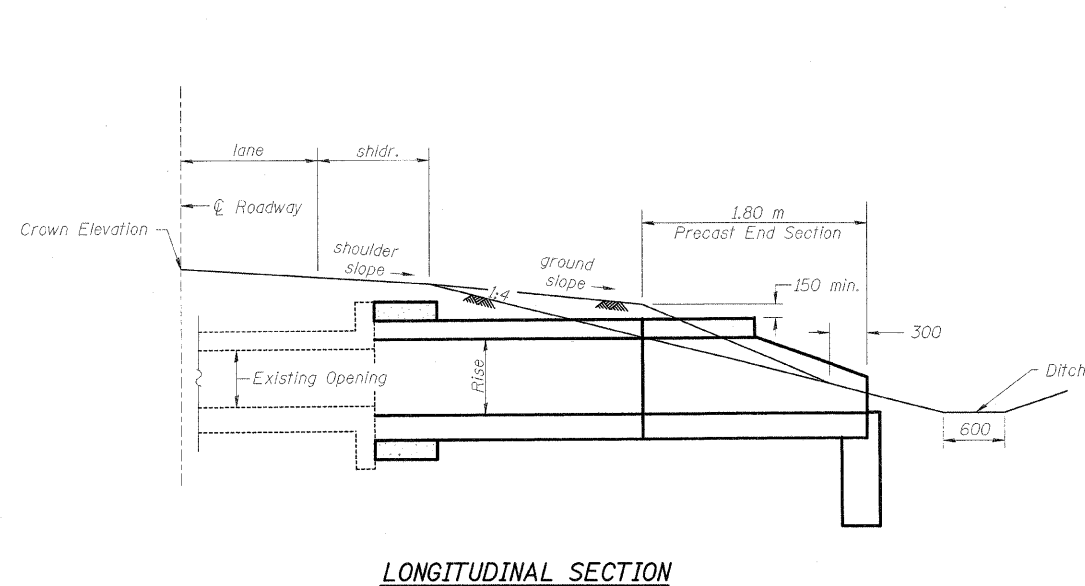
**END VIEW**



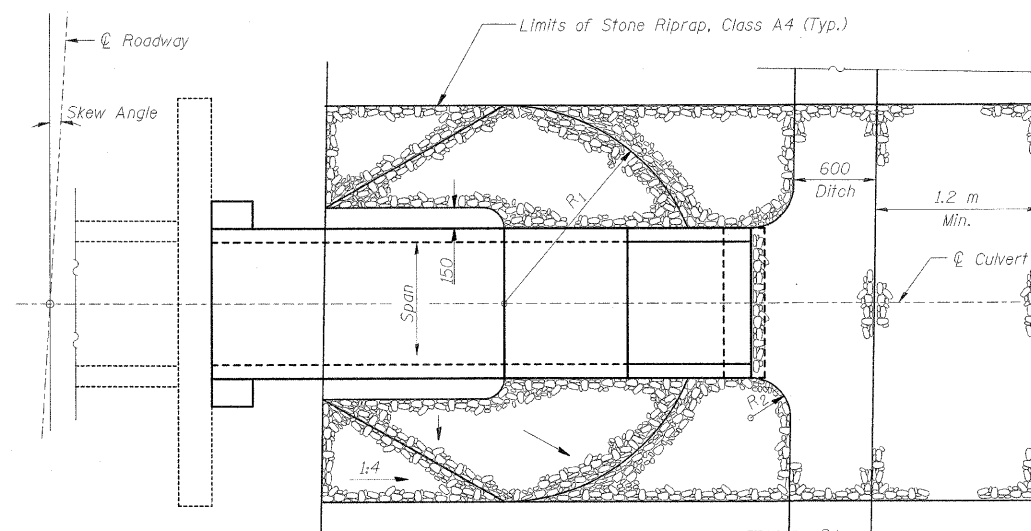
**ISOMETRIC VIEW**

**PRECAST CONCRETE BOX CULVERT END SECTION DETAILS**

Box Culvert No.	Span	Rise
1	900	450
4	600	600



**LONGITUDINAL SECTION**



**PLAN VIEW**

\*Limits of Stone Riprap, Class A4

\*If formed ditch is not present, riprap shall be extended 1.2m past projected toe of ditch.

Note:

The Stone Riprap shall extend to an elevation of the top of the Top Slab within the outline shown. The Radii  $R_1$  &  $R_2$  shall be determined in the field.

**SLOPE TREATMENT DETAILS**

**GENERAL NOTES**

1. Reinforcement for precast box end sections shall conform to specifications for the same size box unit for the specifications specified for that culvert.
2. Reinforcement shall be welded wire fabric conforming to ASTM A-185. Laps, welds and spacing shall conform to ASTM C-789 and AASHTO M-259.

REVISIONS	
NAME	DATE
LWJ	2-02-09

ILLINOIS DEPARTMENT OF TRANSPORTATION  
BOX CULVERT EXTENSIONS  
PRECAST END SECTION DETAILS

SCALE NONE  
DATE DECEMBER 10, 2006  
DRAWN BY MLB  
CHECKED BY MTH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	135
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

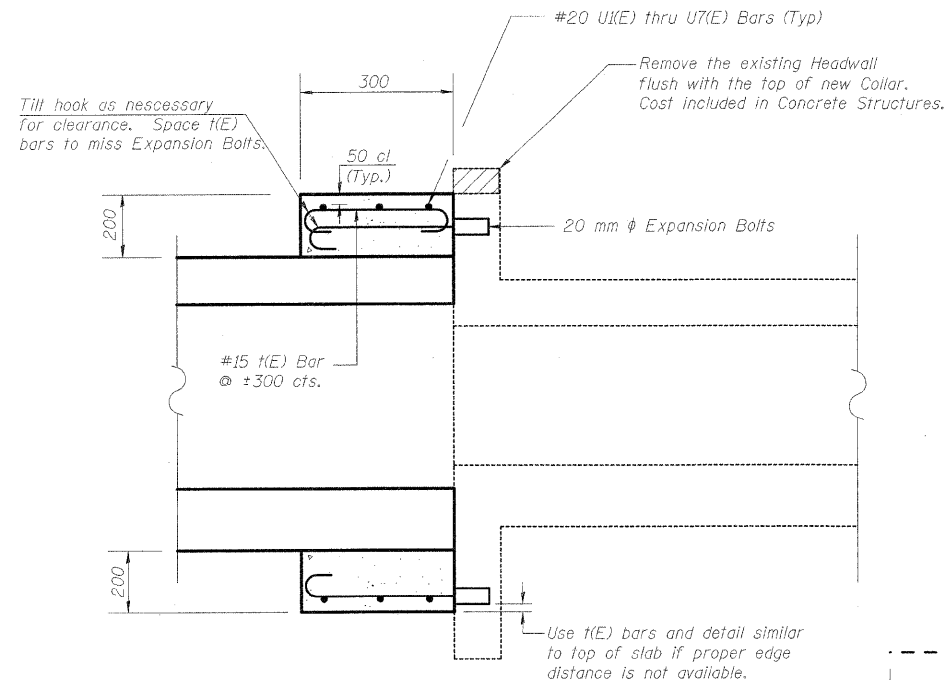
**DIMENSIONS & BAR LIST**

Box Culvert No.	S* (mm)	R* (mm)	Expansion Bolts				U1(E) thru U7(E) Bars			I(E) Bars		
			Top Slab	Bottom Slab	Each Wall	Total	Designation	A*(m)	B*(m)	No. Req'd	Top Slab	v bars
1	1500	1175**	3	3	3	21	U1(E)	1.40	0.94	9	6	6
4	1200	1325	3	3	3	24	U2(E)	1.10	1.01	12	5	

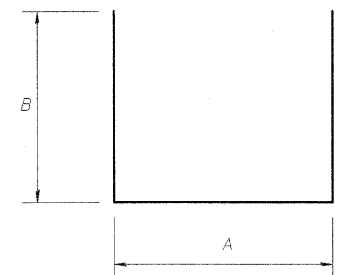
\* Contractor to verify dimension based on actual culvert size provided by fabricator.  
 \*\* Modify this dimension to accommodate the steel plate. (See Sheet S8 of 9)

**BAR DETAILS**

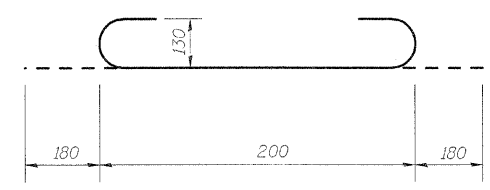
Bar	No.	Size	Length (m)	Shape
I(E)	52	#15	0.56	
U1(E)	9	#20	3.28	
U2(E)	24	#20	3.12	
U3(E)	12	#20	7.04	
U4(E)	12	#20	2.84	
U5(E)	9	#20	3.42	
U6(E)	12	#20	2.98	
U7(E)	12	#20	3.14	
v(E)	12	#20	0.90	



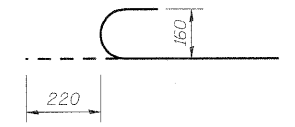
**LONGITUDINAL SECTION**



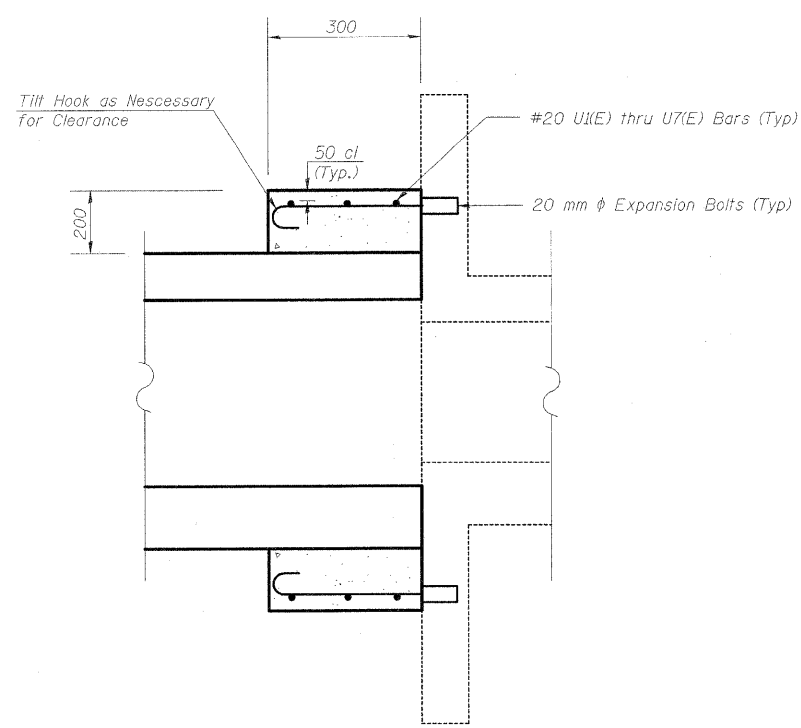
**U1(E) THRU U7(E) BARS**



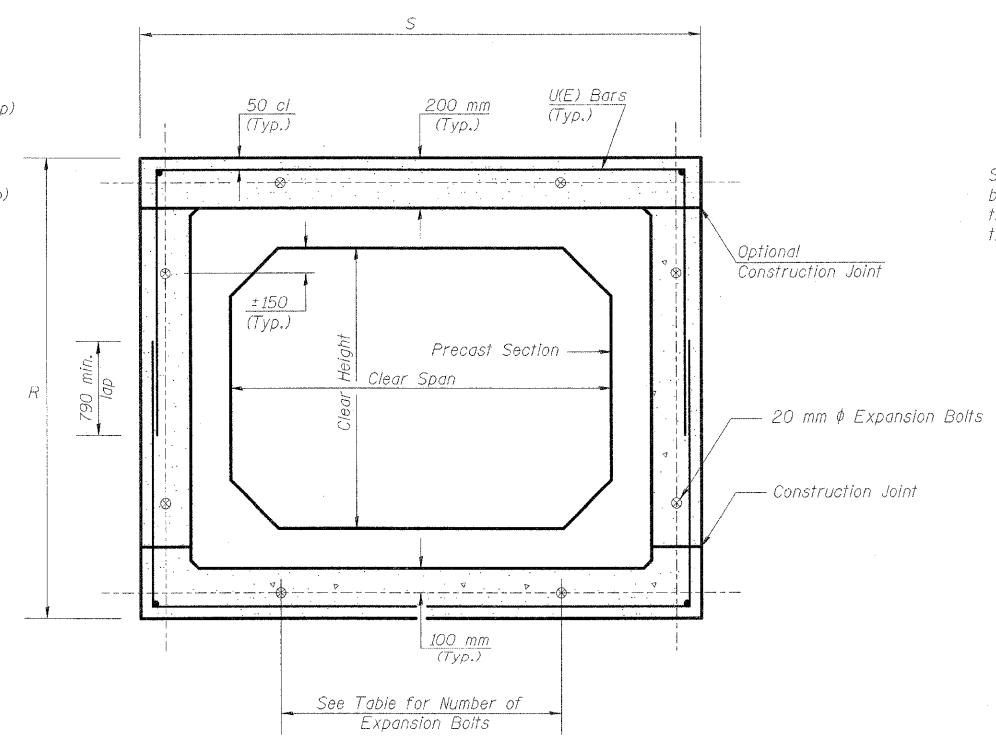
**I(E) BAR**



**EXPANSION BOLT HOOK**

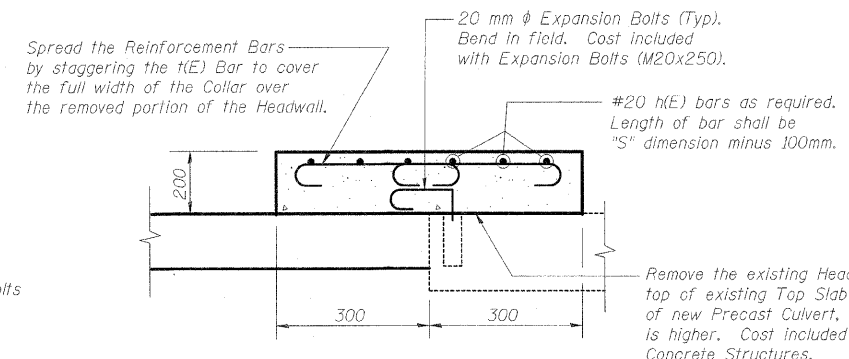


**PLAN**



**CROSS SECTION THRU BARREL**

See Sheet S18 of 19 when Steel Plate is required.



**ALTERNATE FOR TOP COLLAR**

If the Headwall is spalled or has unsound concrete, remove the Headwall flush with Top Slab and extend the top portion of new Collar to cover the area of Headwall. Anchor the top portion of Collar to Top Slab of Existing Culvert.

REVISIONS	
NAME	DATE
LWJ	2-02-09

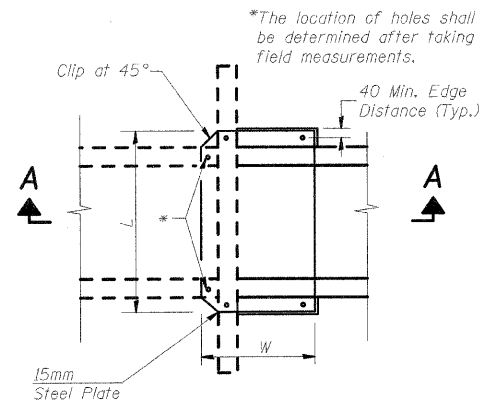
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 BOX CULVERT EXTENSIONS  
 CAST-IN-PLACE COLLAR DETAILS

SCALE NONE DRAWN BY MLB  
 DATE DECEMBER 10, 2006 CHECKED BY MTH

PLT DATE = 2/5/2009  
 FILE NAME = H:\1420\Contract 74349\Sheet\135\_S-07.dgn

LIN NO. 9803

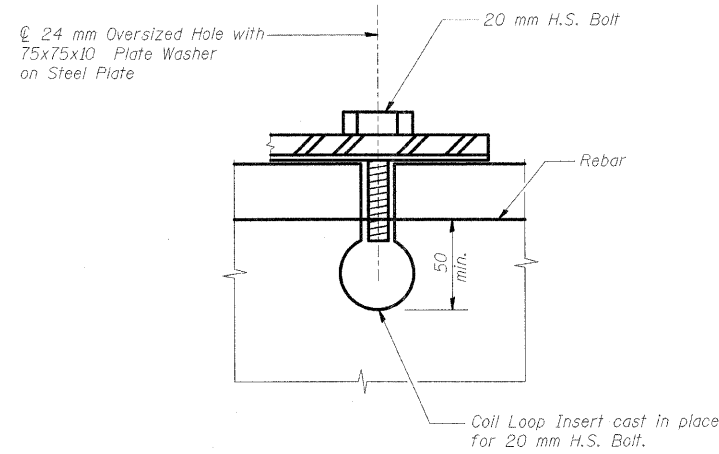
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	136
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



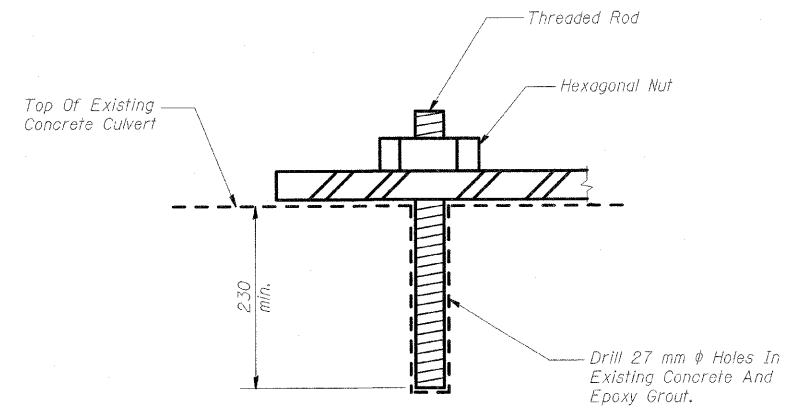
**PLAN  
DETAIL OF STEEL PLATE  
ATTACHMENT**

Box No.	Location	Size L x W
1	Upstream Collar	1500 x 700 **
4	Downstream Collar	1500 x 700 **

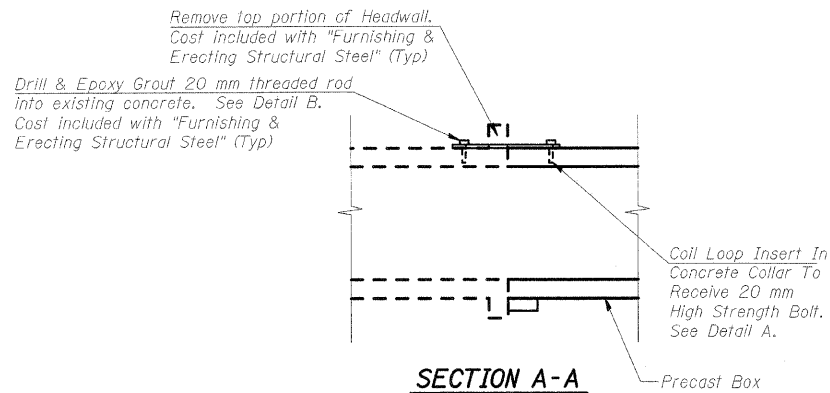
\*\*Contractor to verify dimensions based on actual culvert size provided by the fabricator.



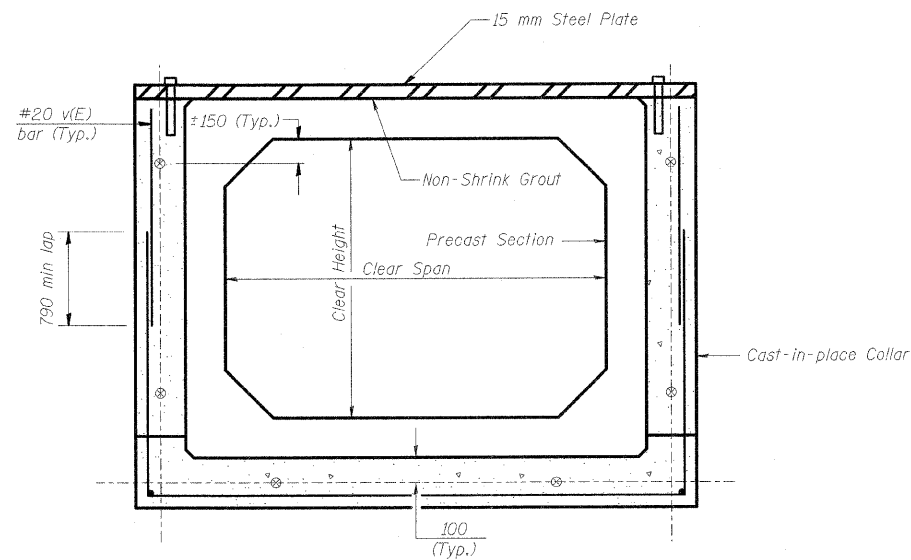
**DETAIL A**



**DETAIL B**



**SECTION A-A**



**MODIFIED COLLAR DETAIL WITH  
STEEL PLATE AT TOP**

See Sheet S17 of 19 for Collar Details and Reinforcement Bar List.

**NOTES**

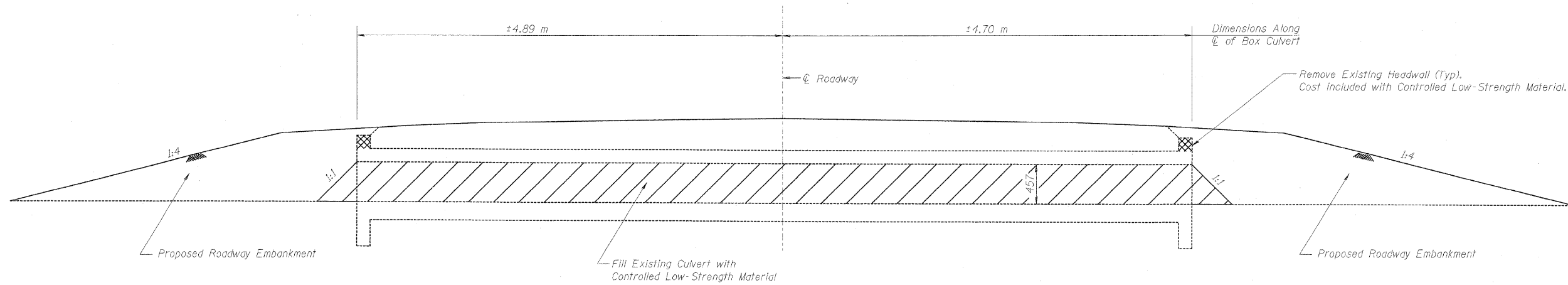
The Steel Plate & Hardware shall be Galvanized in accordance with AASHTO M232, AASHTO M111 and ASTM A385.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
LWJ	2-02-09	BOX CULVERT EXTENSIONS MISCELLANEOUS DETAILS	
SCALE	NONE	DRAWN BY	MLB
DATE	DECEMBER 10, 2006	CHECKED BY	MTH



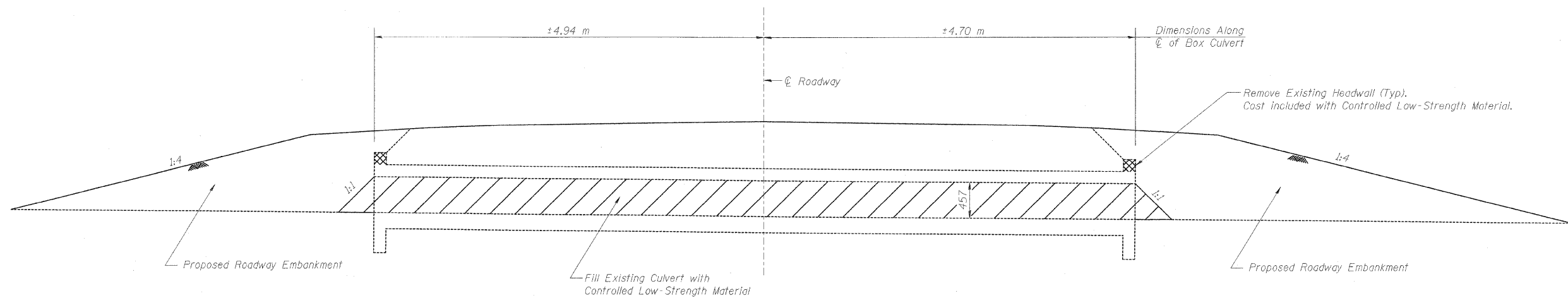
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781	2ZRS-1	CRAWFORD	191	137
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Existing Structure: The structure is a single barrel 914 mm x 457 mm box culvert at a skew of 0°34'23" right forward. The culvert has an overall length of 9.59 m. The culvert is to be filled with Controlled Low-Strength Material and abandoned.



**LONGITUDINAL SECTION**  
(E.C. #101)  
STA. 1+237.680

Existing Structure: The structure is a single barrel 610 mm x 457 mm box culvert at a skew of 0°12'20" right forward. The culvert has an overall length of 9.64 m. The culvert is to be filled with Controlled Low-Strength Material and abandoned.



**LONGITUDINAL SECTION**  
(E.C. #105)  
STA. 2+728.815

\*Drilling holes in the top slab may be required for placement of C.L.S.M. Cost included in pay item Controlled Low-Strength Material.

**BILL OF MATERIAL - E.C. #101 & E.C. #105**

Item	Unit	Total
Controlled Low-Strength Material	cu. m.	7.0

REVISIONS	
NAME	DATE
LWJ	2-02-09

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BOX CULVERT EXTENSIONS  
PLUG & FILL DETAILS  
E.C. 101 & E.C. 105**

SCALE NONE      DRAWN BY MLB  
DATE DECEMBER 10, 2006      CHECKED BY MTH

PLOT DATE = 2/16/2009  
FILE NAME = H:\4428\Contract 74349\SH1\_137\_S-99.dgn

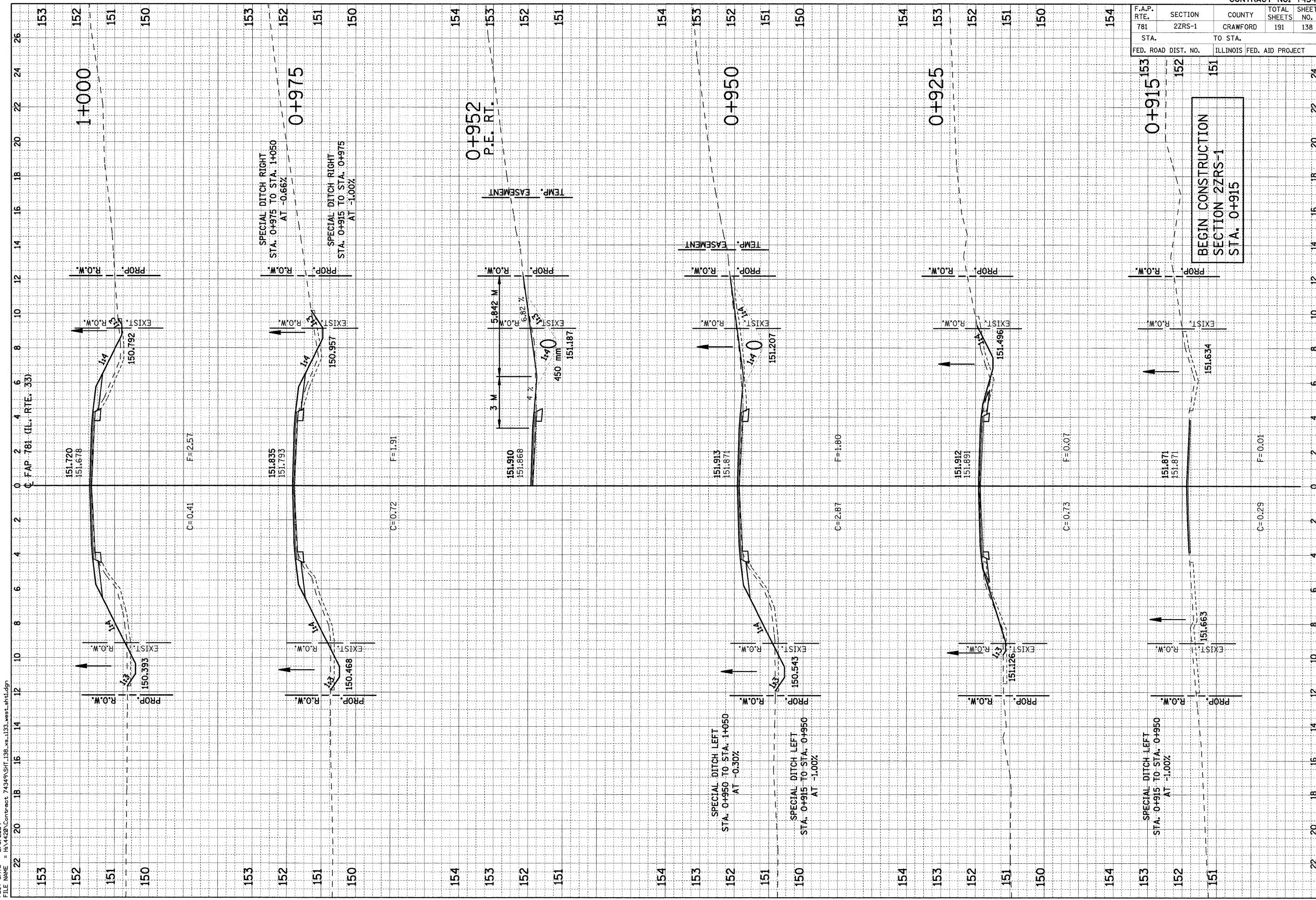
LIN NO. 9803

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	138
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.			

PLOT DATE = 2/5/2009  
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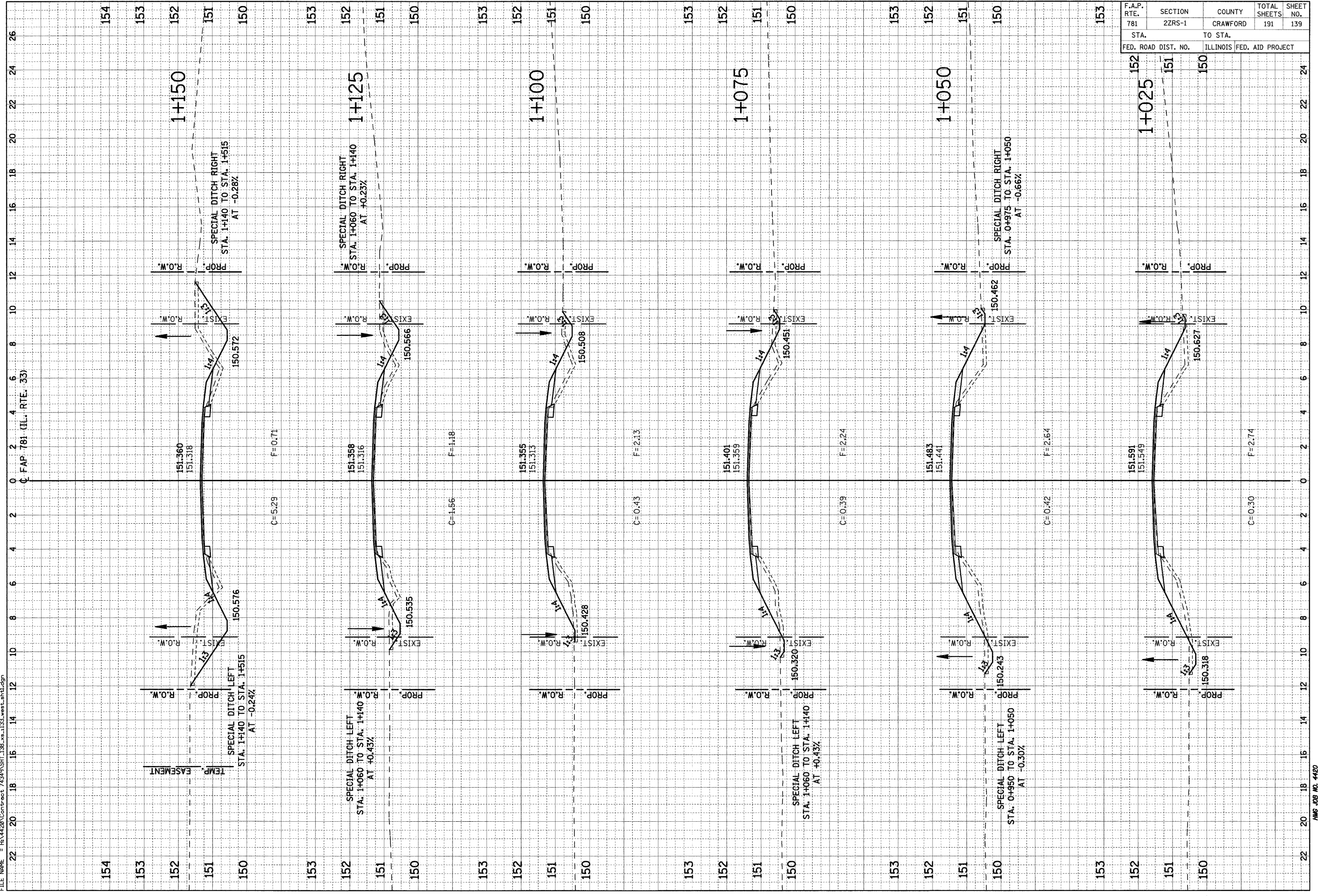
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 SECTION 2ZRS-1  
 STA. 0+915

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	139
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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PLOT DATE = 2/5/2009  
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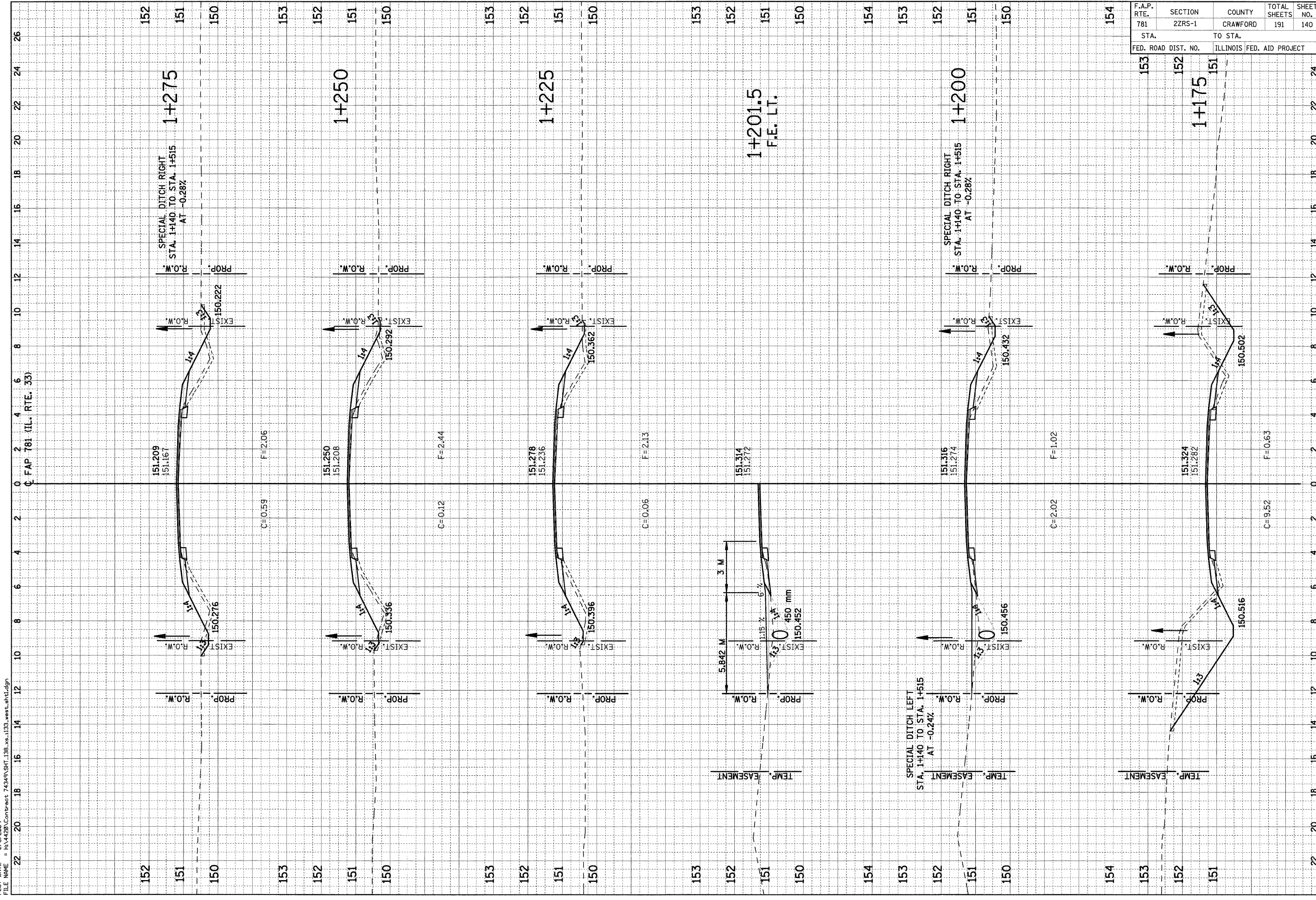


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781	22RS-1	CRAWFORD	191	140
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

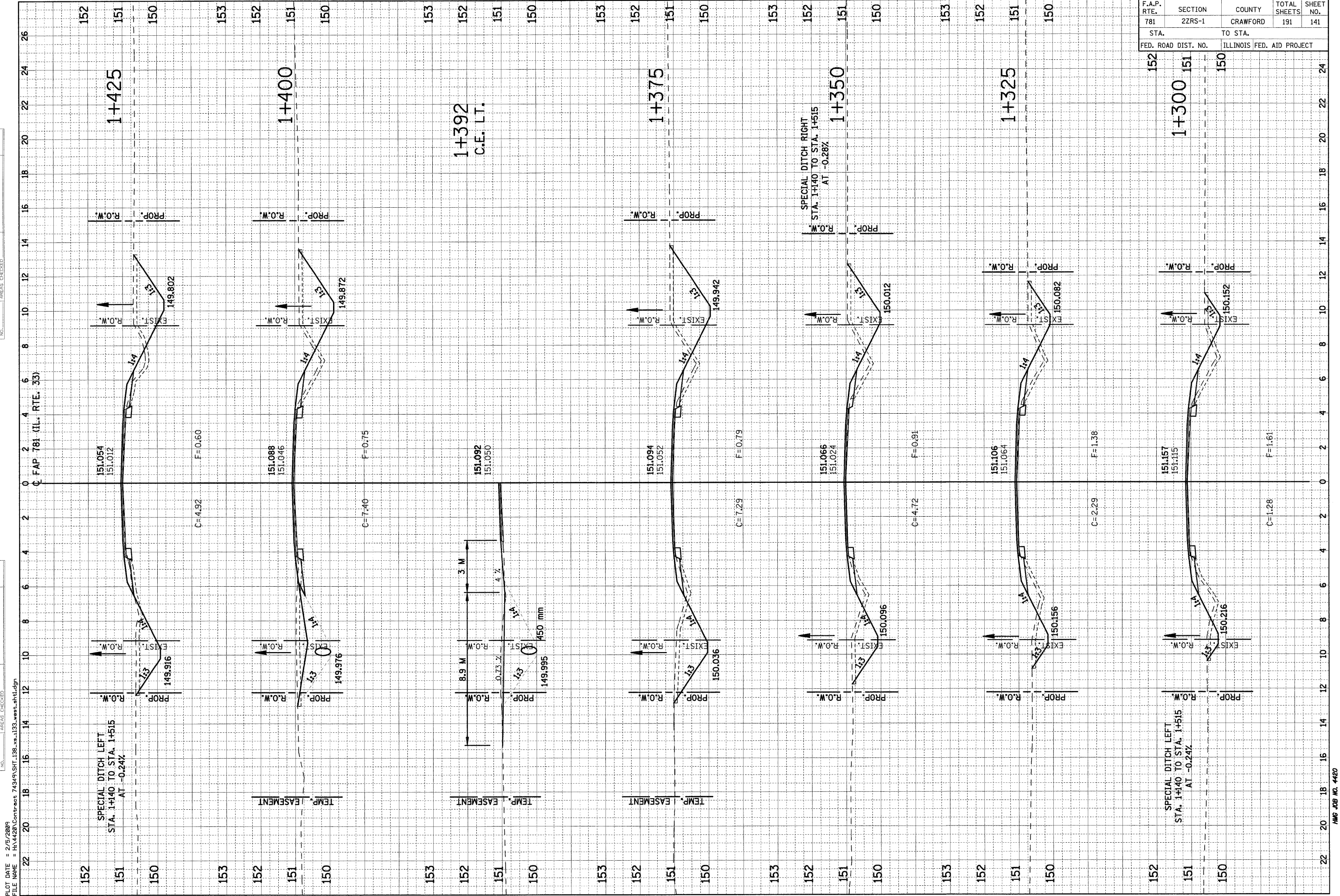
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	141
STA. 152 TO STA. 150		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



PLOT DATE = 2/5/2009  
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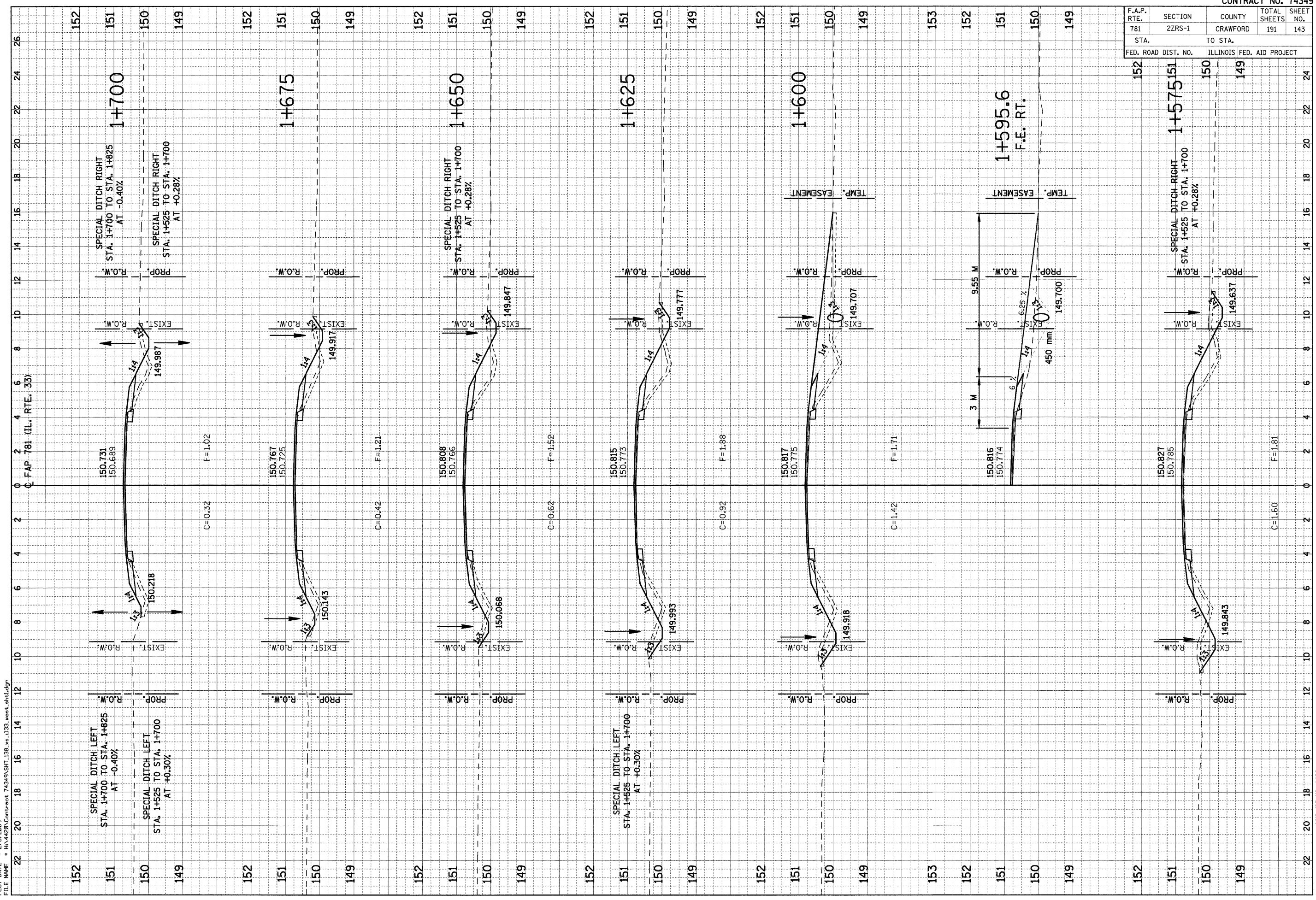


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	143
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	NO.		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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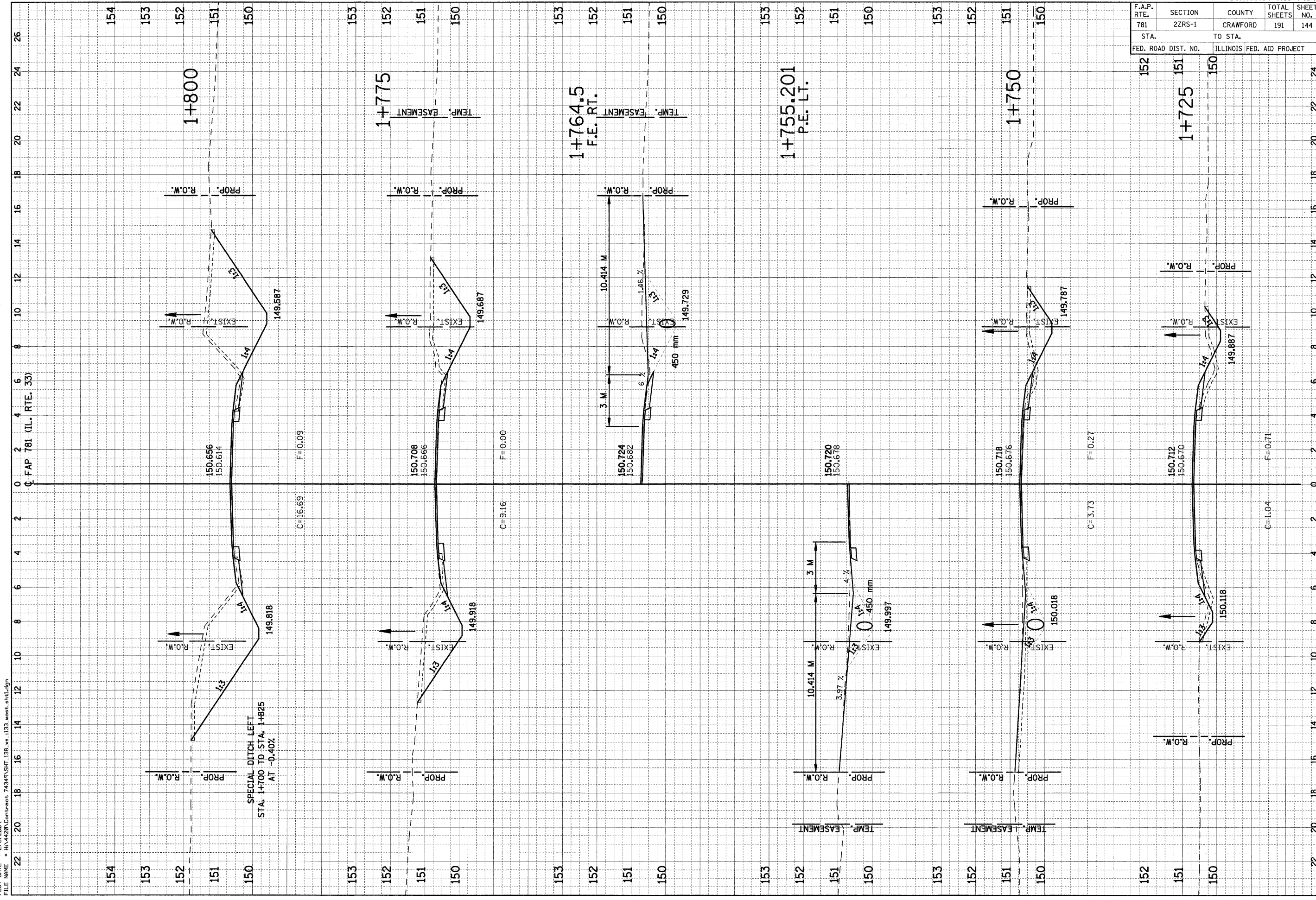


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	144
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK TEMPLATE		
AREAS CHECKED		

ORIGINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK TEMPLATE		
AREAS CHECKED		

PLOT DATE = 2/5/2009  
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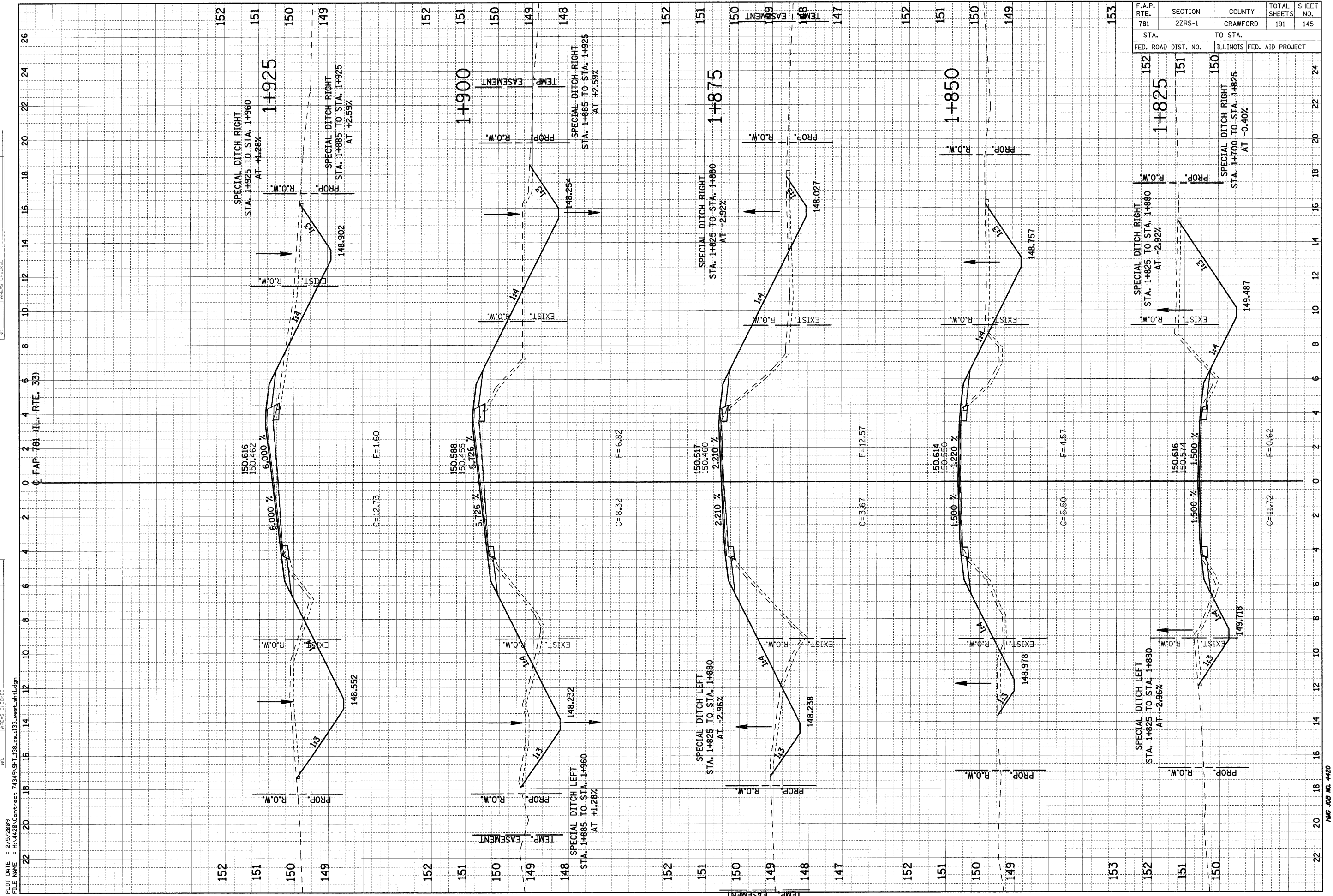


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	145

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



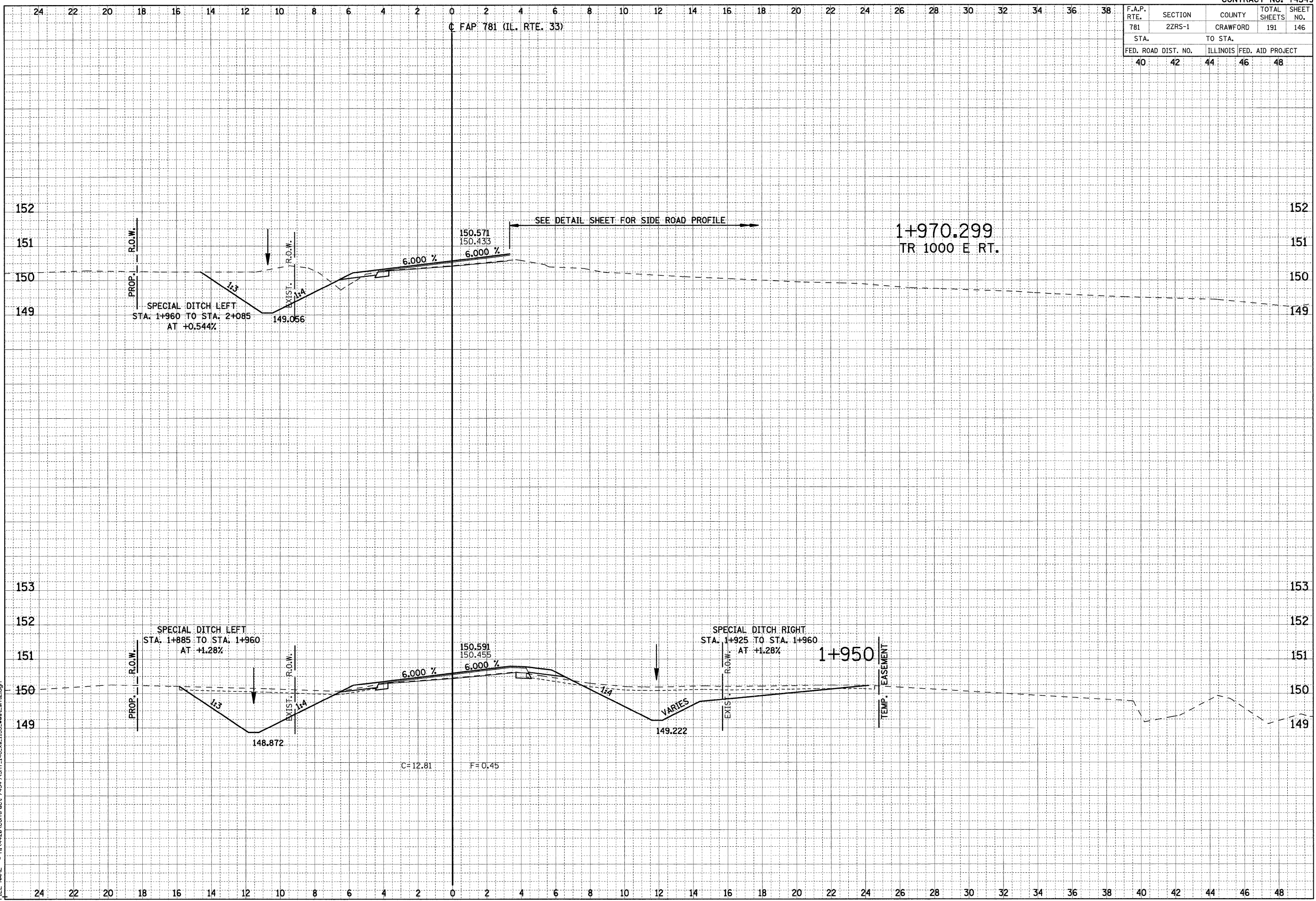
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781	2ZRS-1	CRAWFORD	191	146
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
40	42	44	46	48

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	

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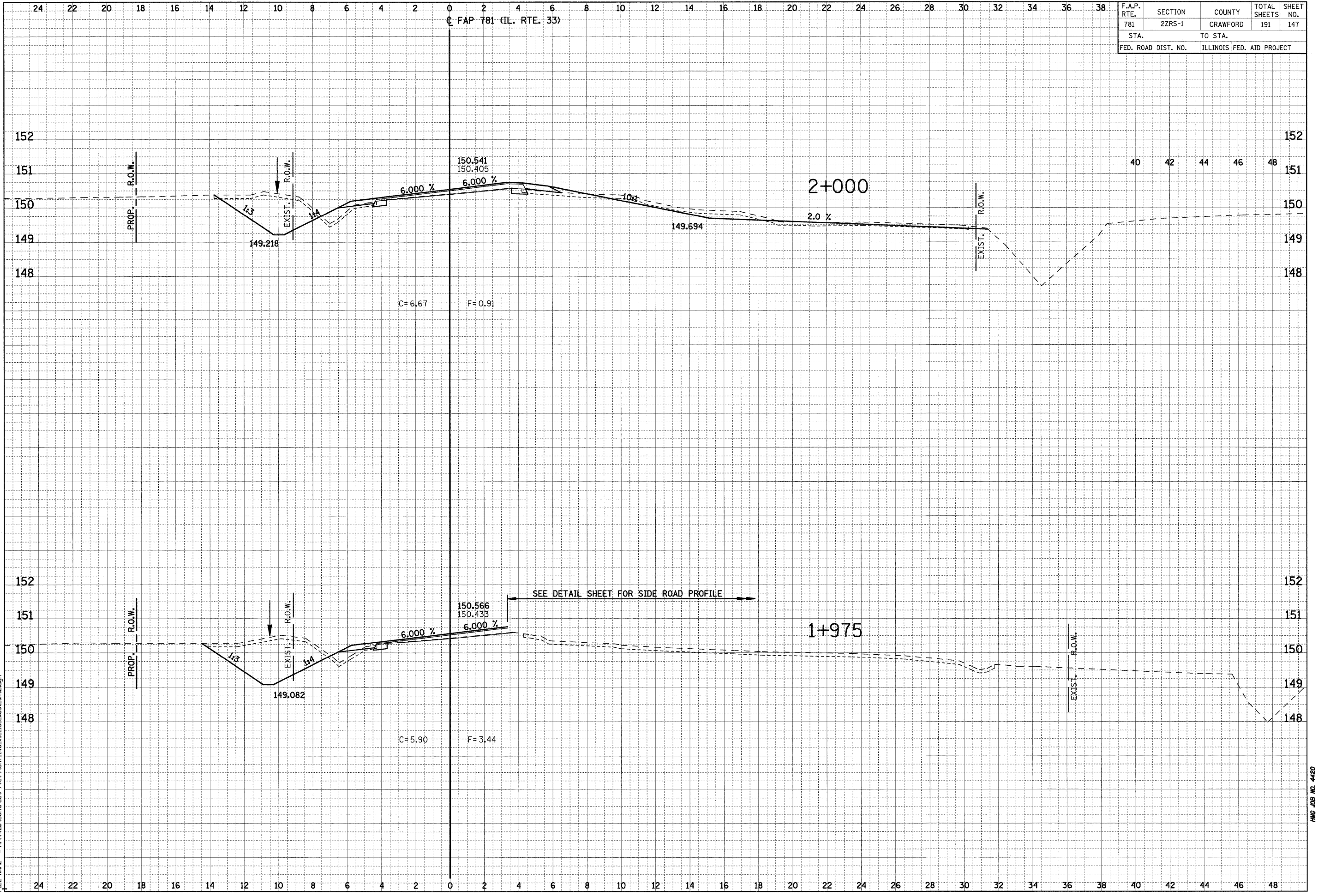


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	147
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.			

PLOT DATE = 2/5/2009  
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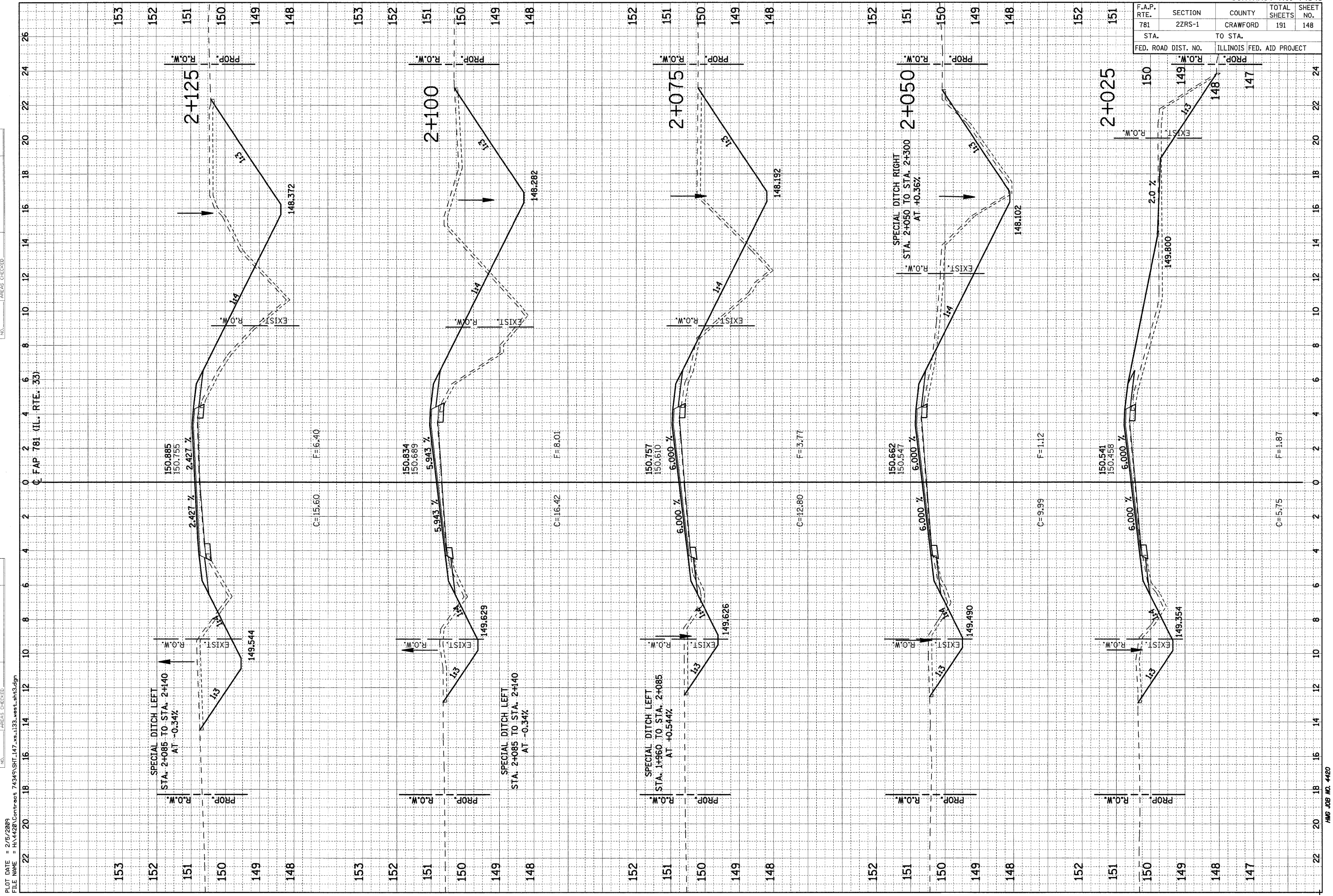
HMG JOB NO. 4420



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	148
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



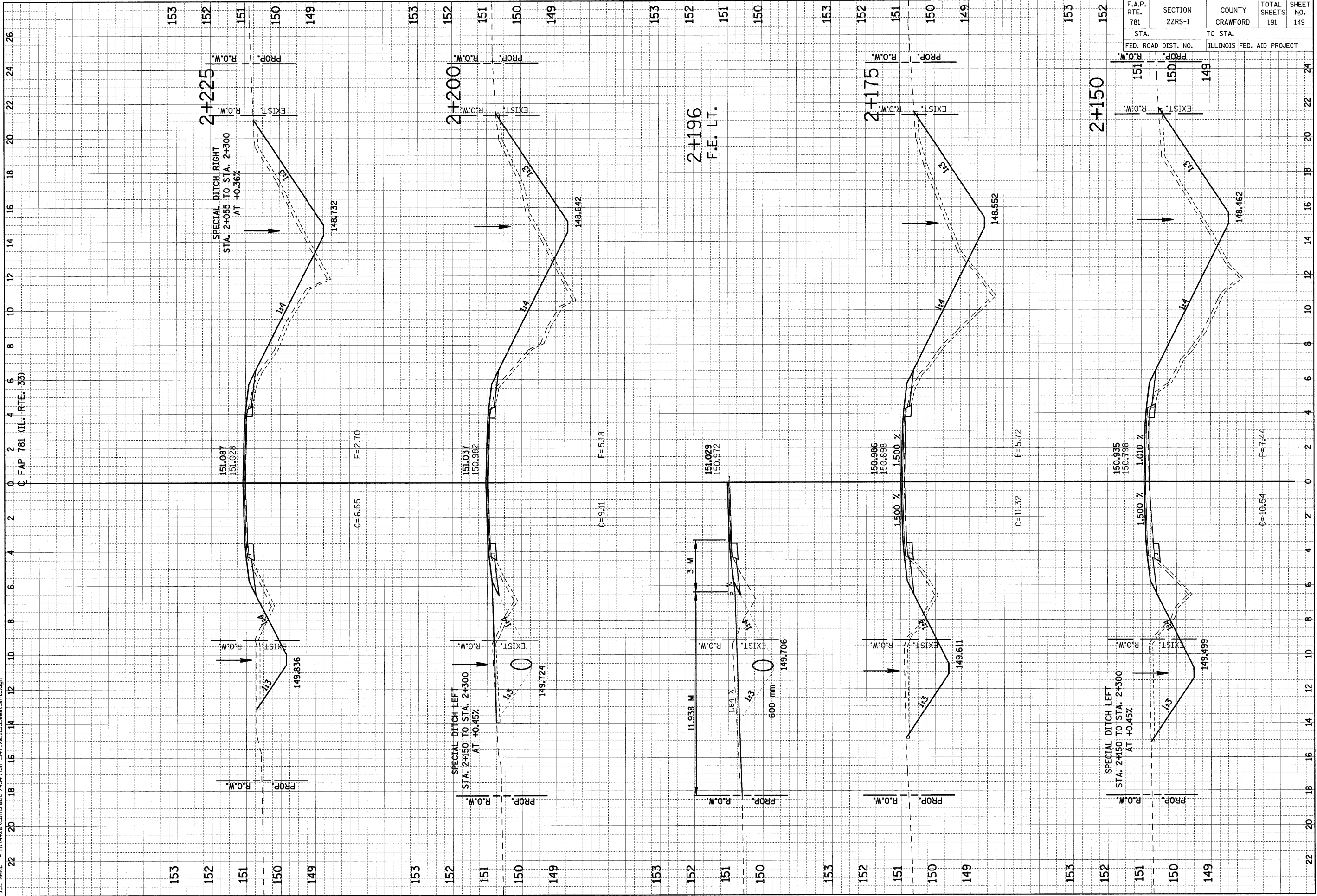
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	149
STA. 781		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DRAWN	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	DRAWN	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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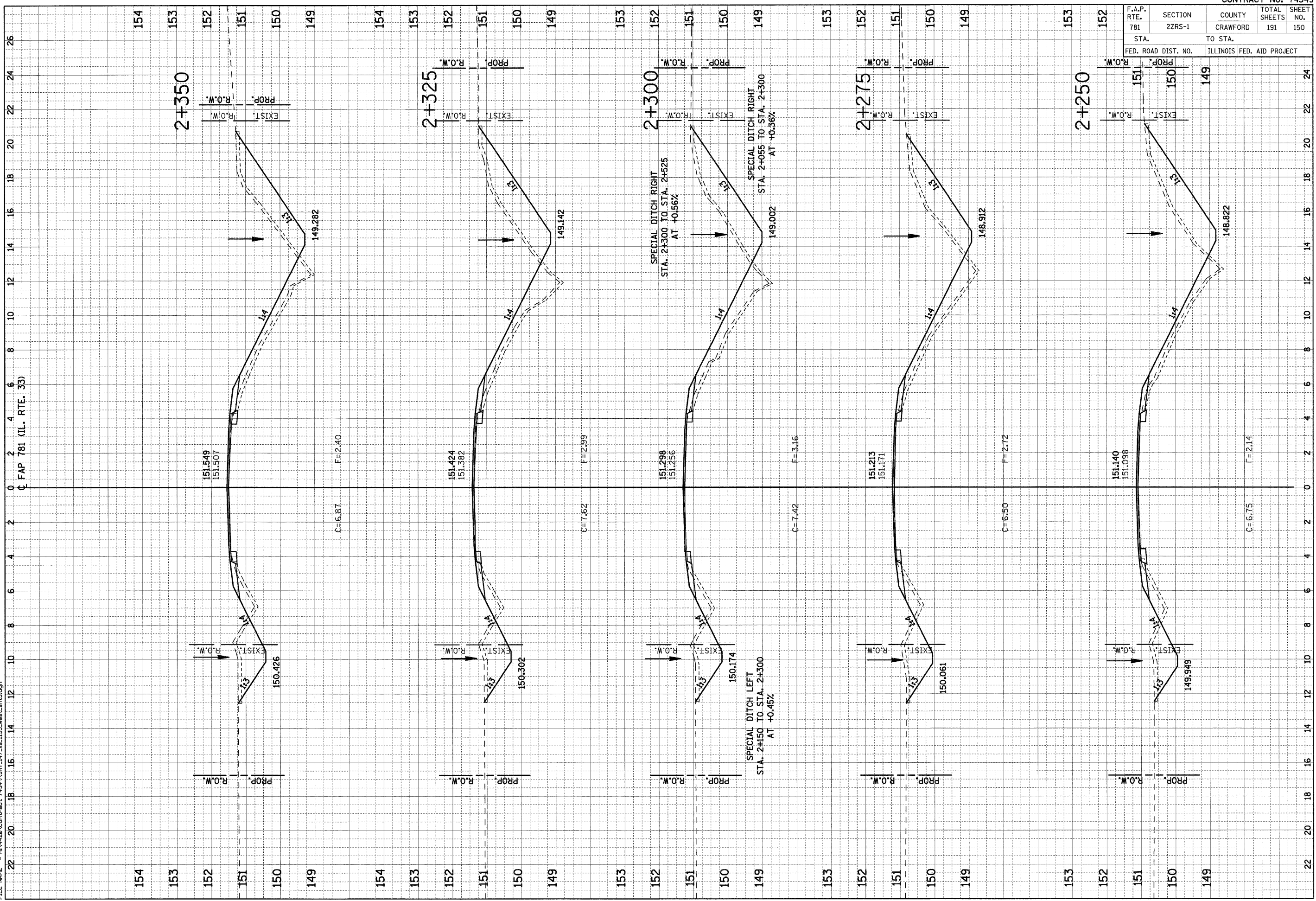


F.A.P. RTE. 781	SECTION 2ZRS-1	COUNTY CRAWFORD	TOTAL SHEETS 191	SHEET NO. 150
STA. 2+250		TO STA. 2+300		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE
FINN	SURVEYED PLOTTED TEMPLATE AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE
FINN	SURVEYED PLOTTED TEMPLATE AREAS CHECKED		

PLOT DATE = 2/5/2009  
FILE NAME = H:\1420\Contract\74349\SH1-147\_xe\_1133\_west\_ah3.dgn





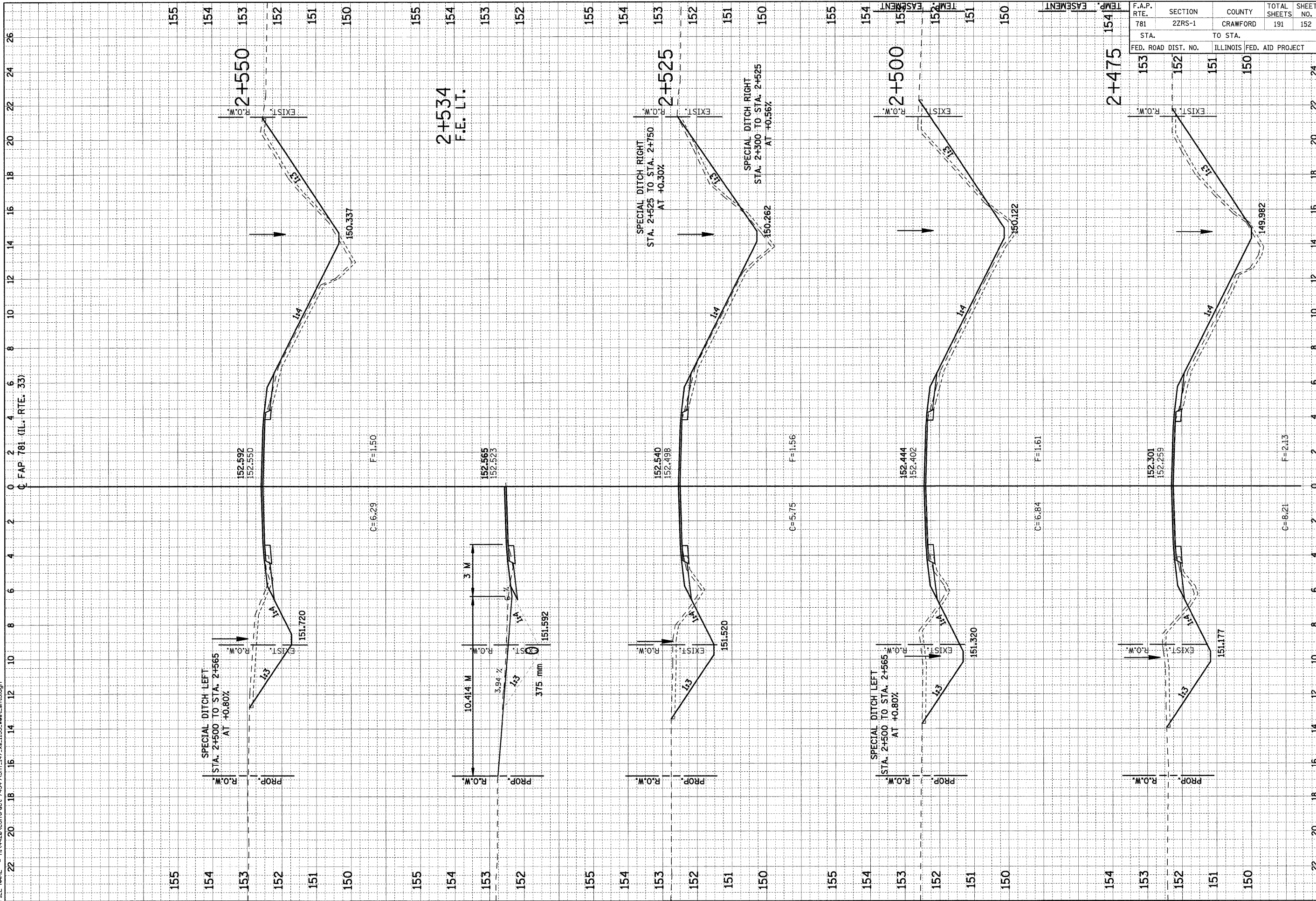


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	152
STA. 153		TO STA. 150		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 2/5/2009  
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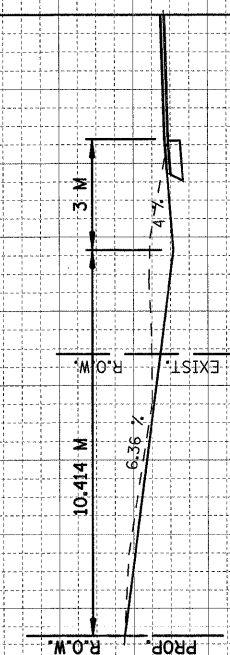
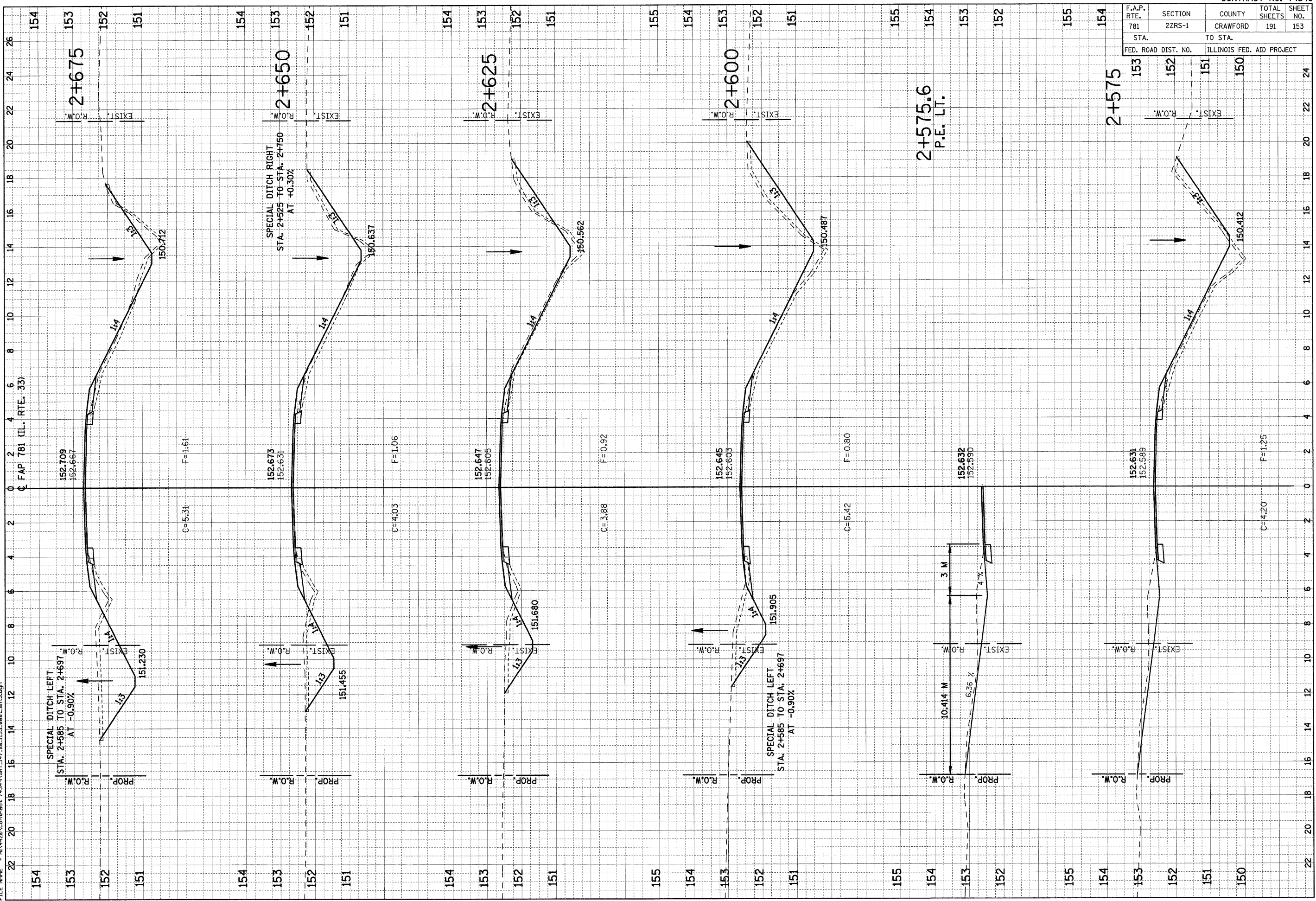


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	22RS-1	CRAWFORD	191	153
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
153	152	151	150	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 2/5/2009  
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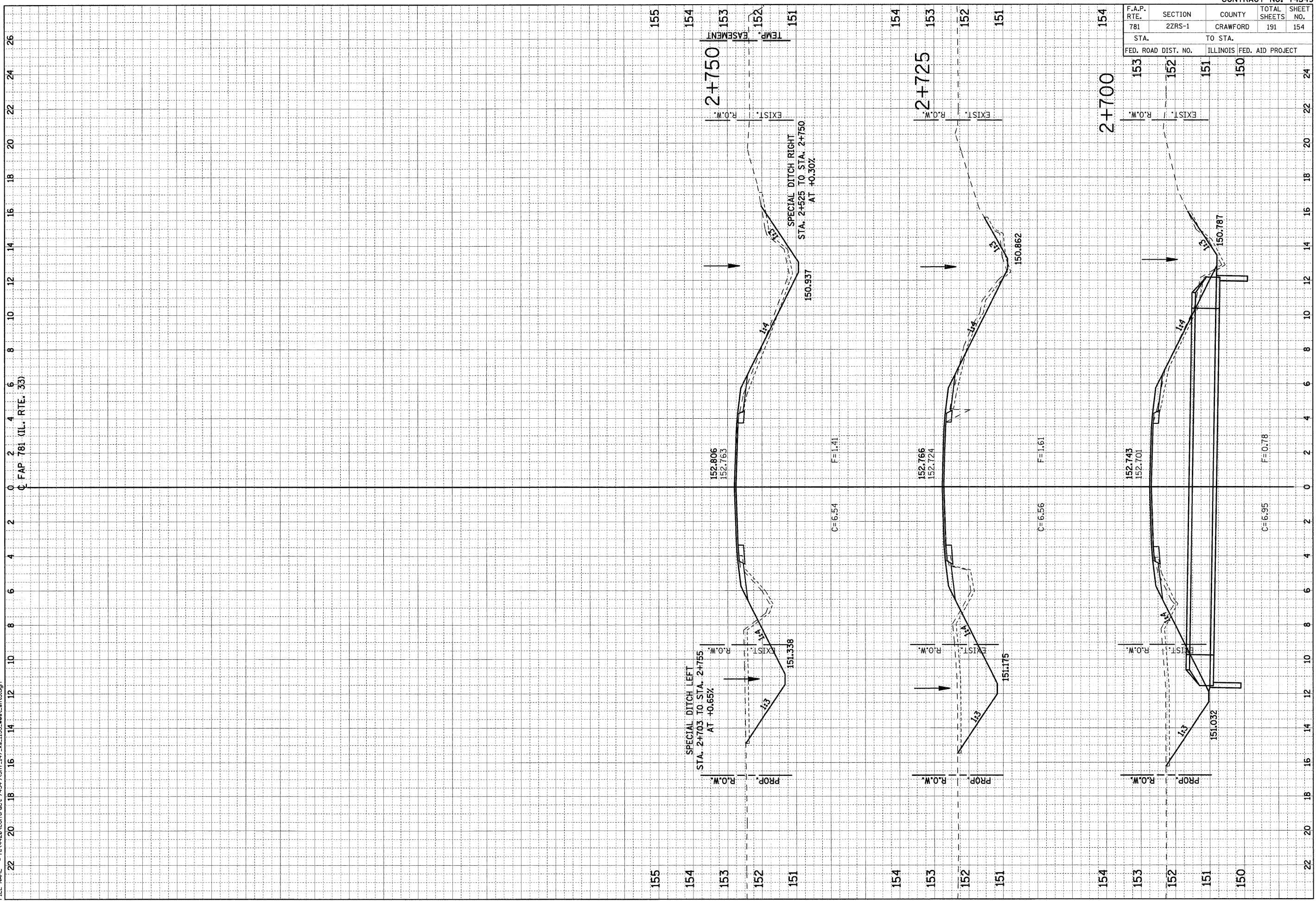


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	154
STA.		TO STA.		
153		150		
152		151		
151		150		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE
FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE
FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED		

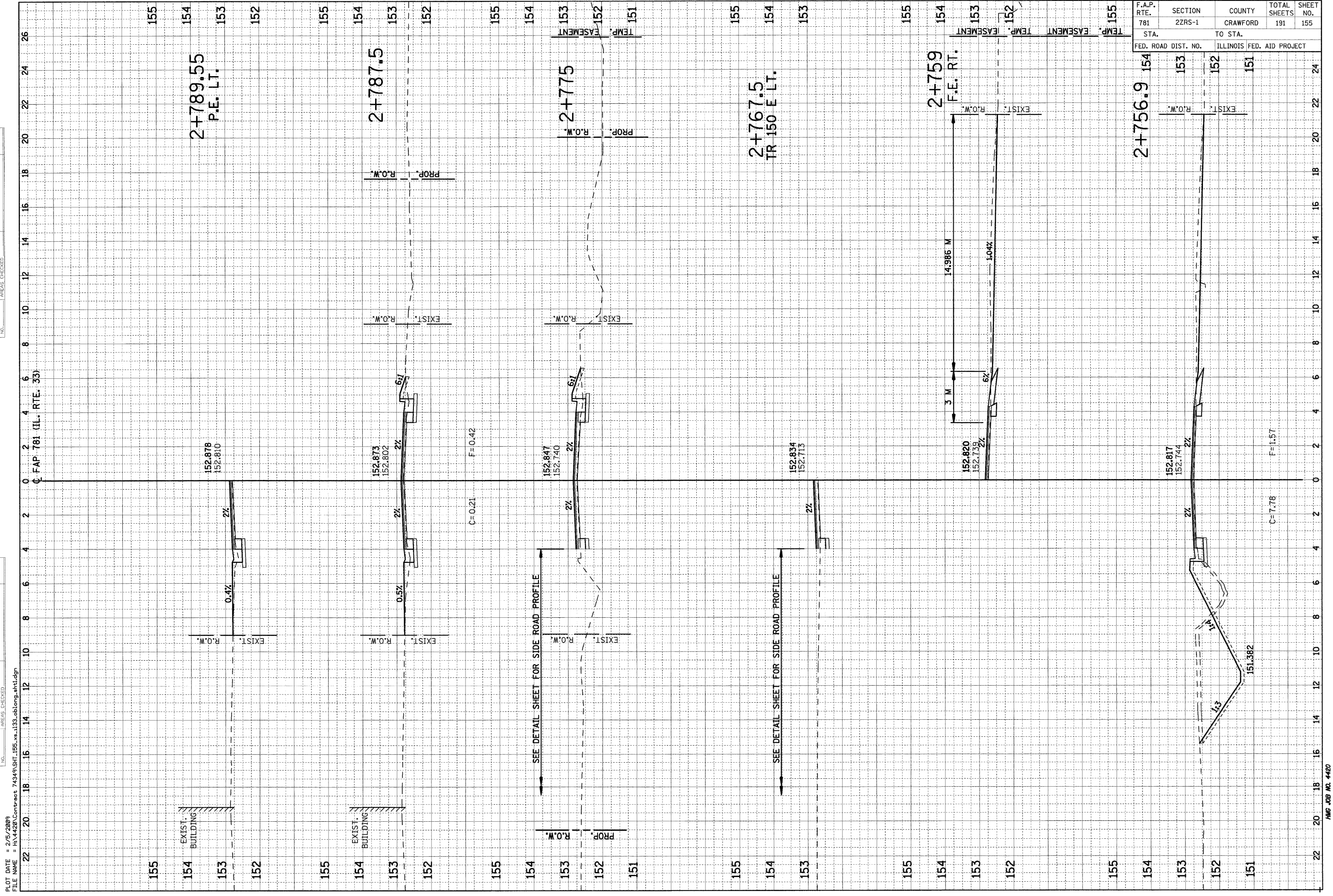
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	155
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	



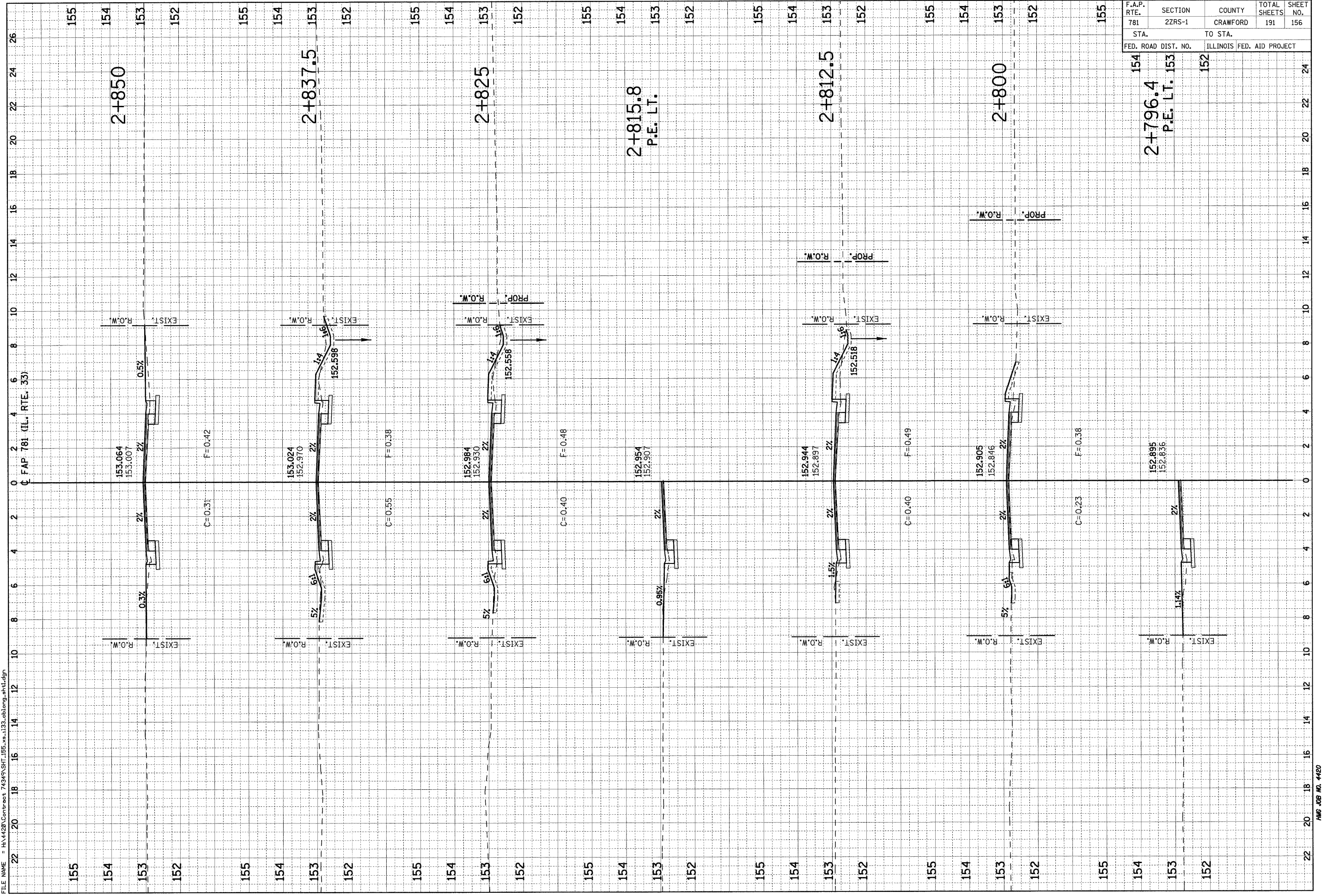


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	156
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

PLOT DATE = 2/5/2009  
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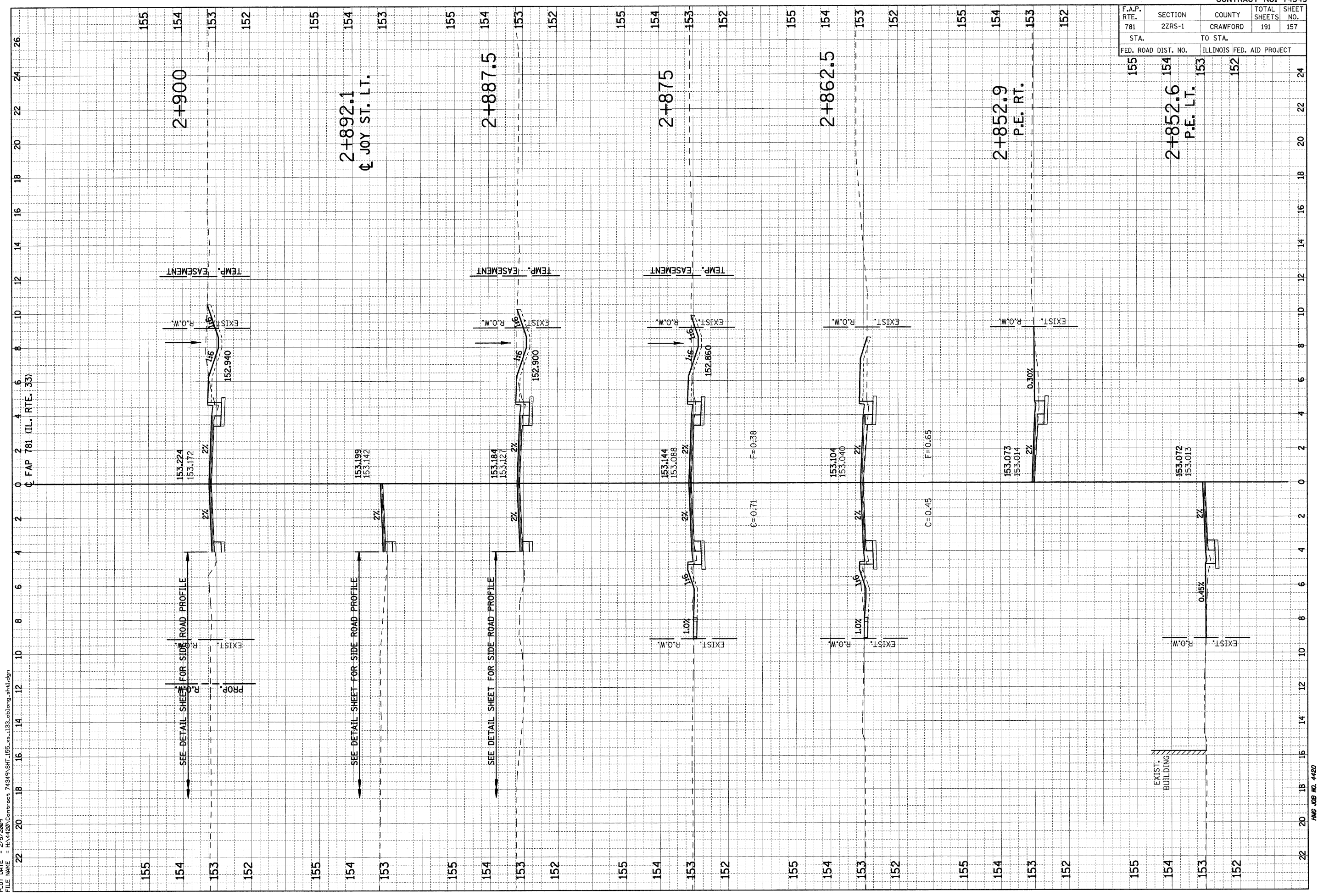


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	157
STA. 155 TO STA. 152		ILLINOIS FED. AID PROJECT		

FINAL SURVEY NO.	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4120\Contract 74349\SH1185\_xa.1132\_oblong-sh1.dgn

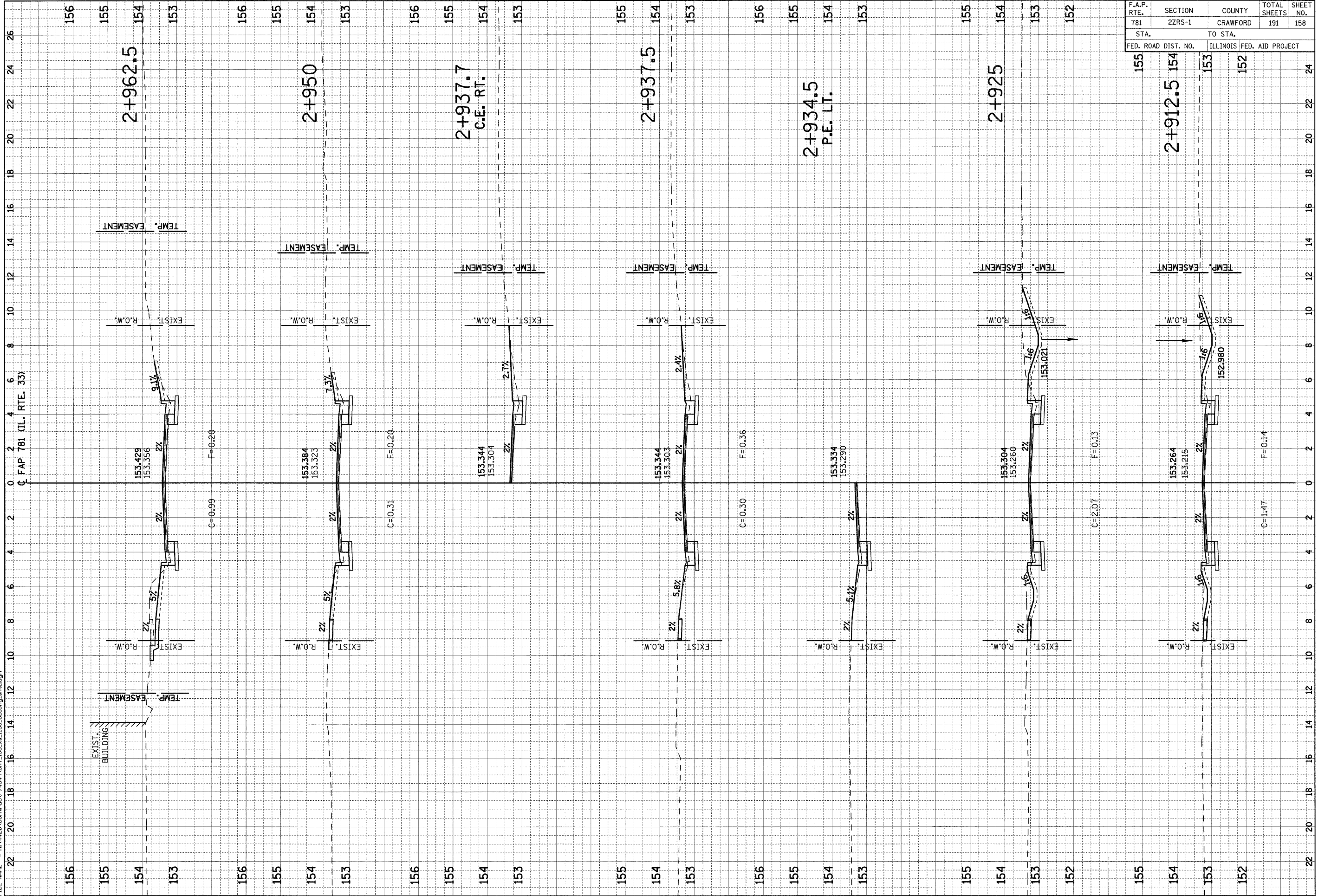


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	158
STA.		TO STA.		
155		152		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
155	154	153		

ORIGINAL SURVEY NO.	SURVEYED BY	DATE
FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	DATE
	TEMPLATE AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED BY	DATE
FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	DATE
	TEMPLATE AREAS CHECKED	

PLOT DATE = 2/5/2009  
 FILE NAME = H:\420\Contract 74349\SH\_155\_vs\_153\_oblong\_ah1.dgn



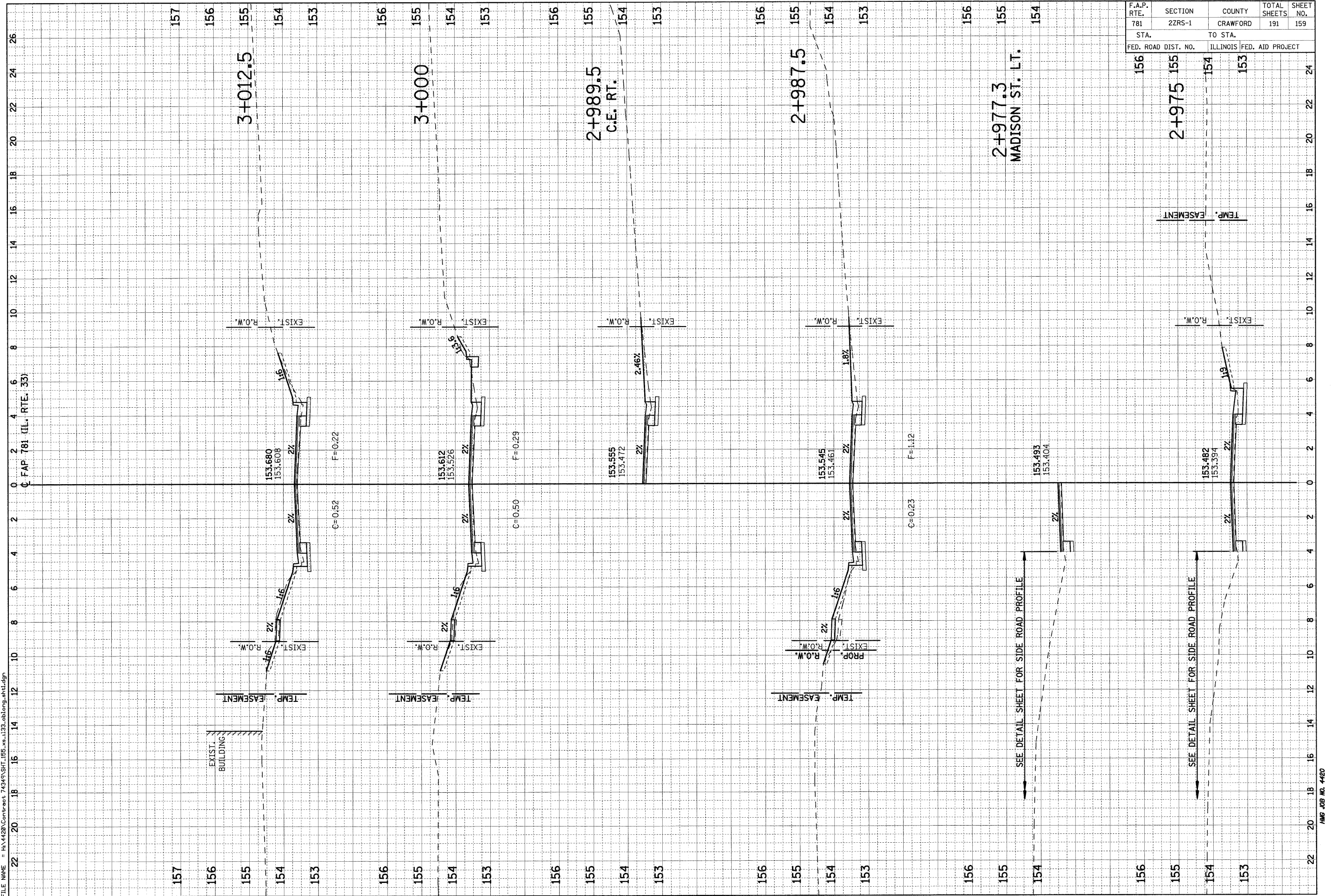


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	159
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xe.133\_oblong-std.dgn



SEE DETAIL SHEET FOR SIDE ROAD PROFILE

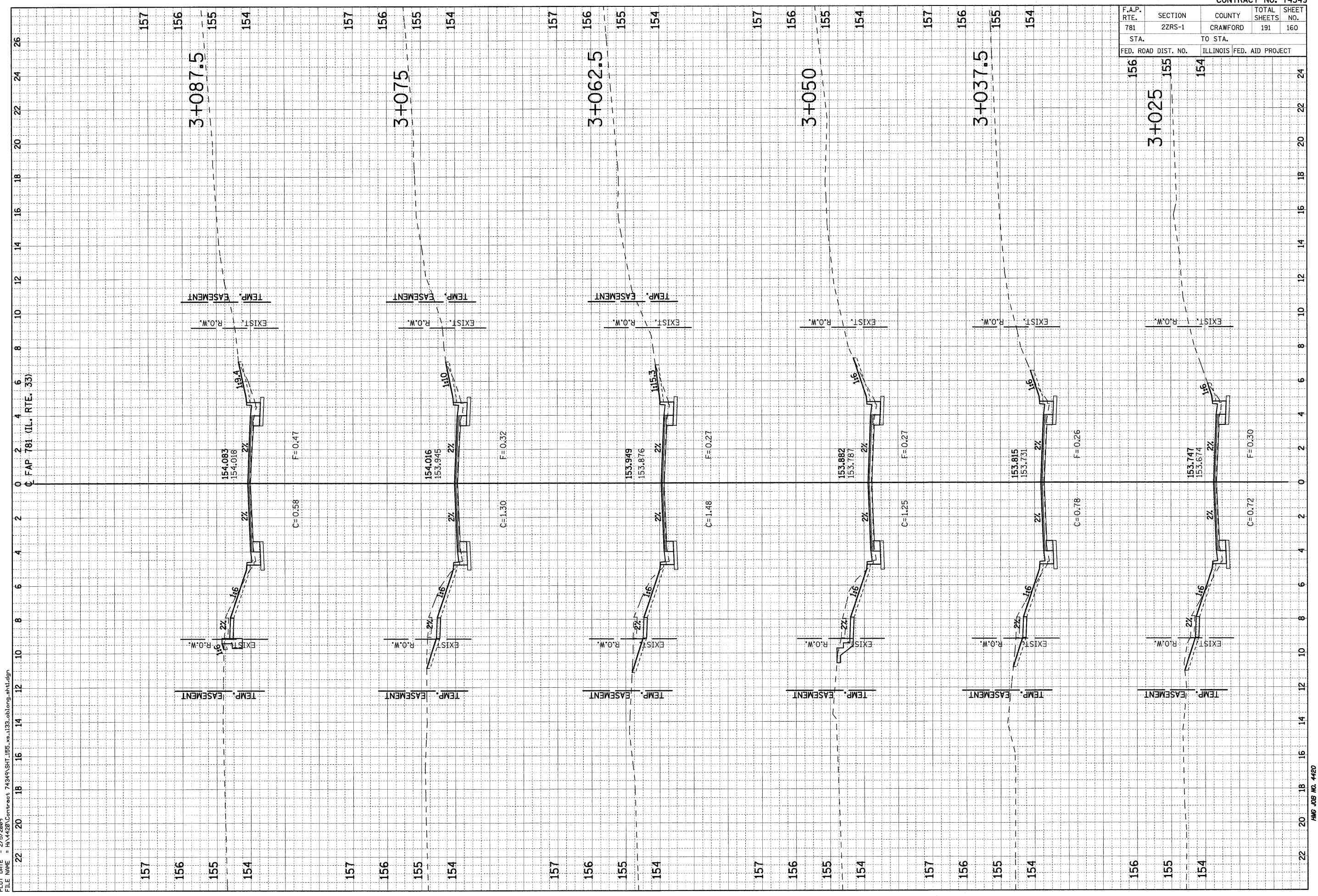
SEE DETAIL SHEET FOR SIDE ROAD PROFILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	160
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xe\_1132\_oblong\_ah1.dgn



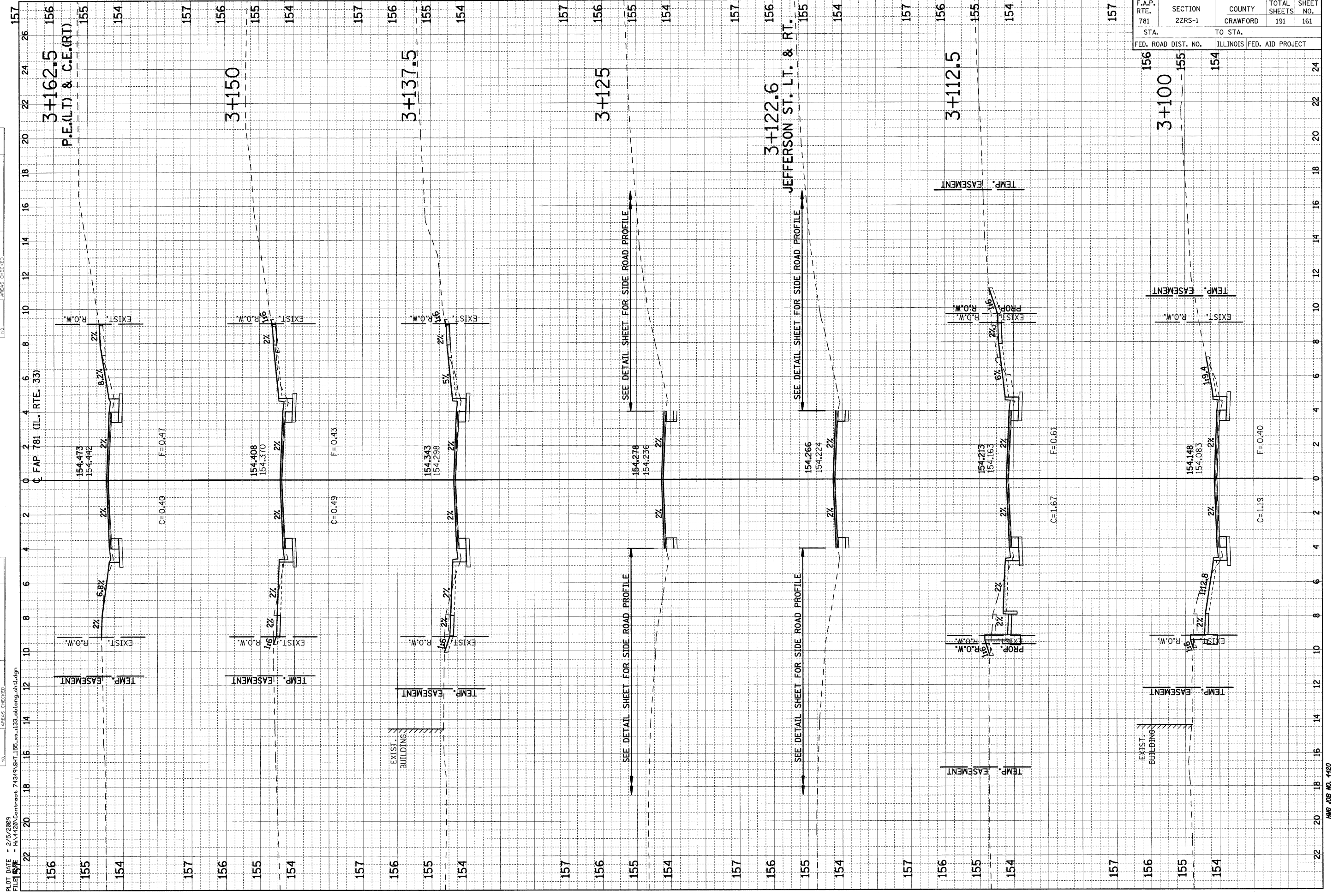


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	22RS-1	CRAWFORD	191	161
STA. 156 TO STA. 155		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SUBMITTED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SUBMITTED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xe\_1133\_oblong\_ah1.dgn

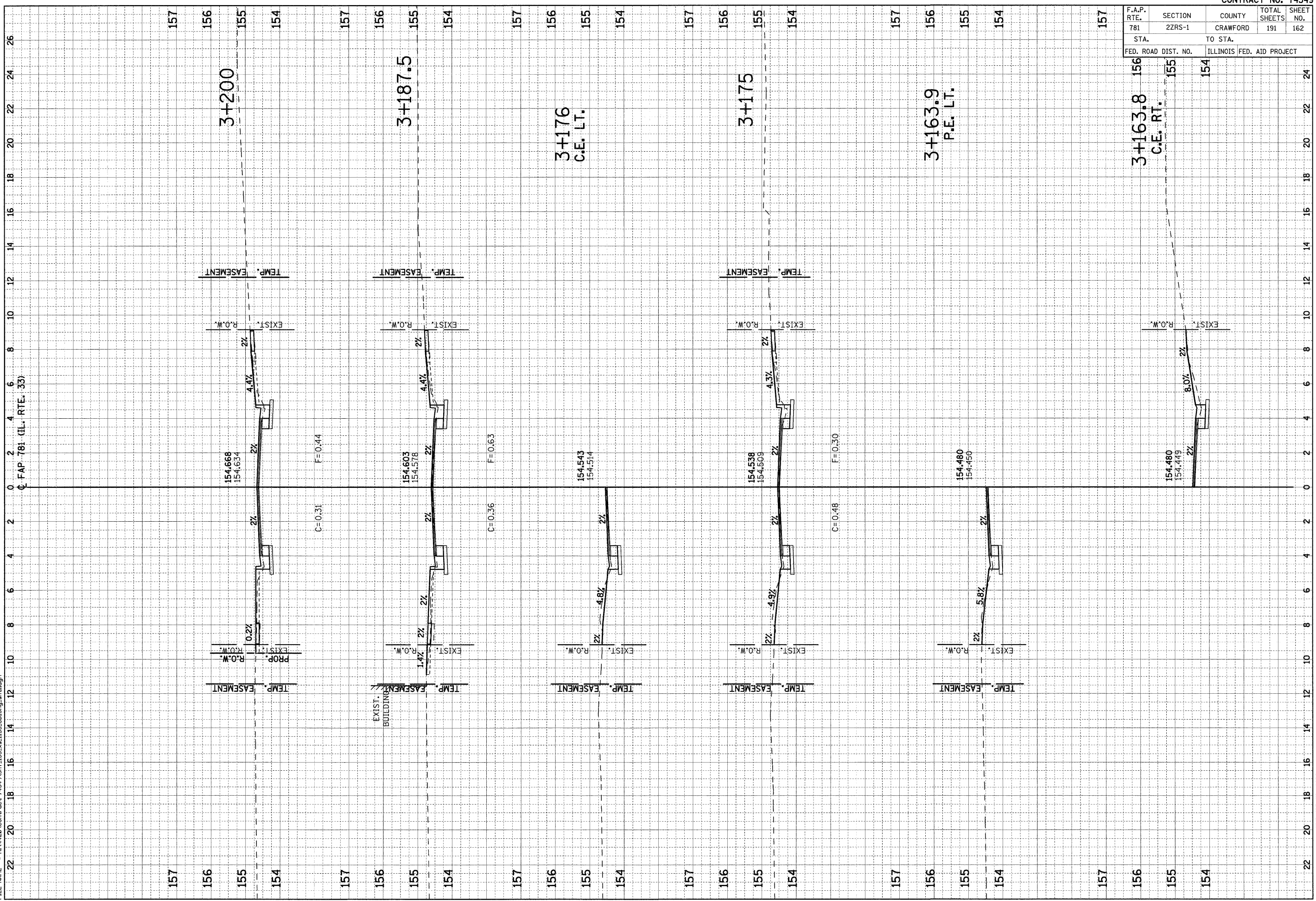


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	162
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY NO. _____	SURVEYED BY _____	DATE _____
NOTE BOOK NO. _____	PLOTTED BY _____	
	TEMPLATE NO. _____	
	AREAS CHECKED _____	

ORIGINAL SURVEY NO. _____	SURVEYED BY _____	DATE _____
NOTE BOOK NO. _____	PLOTTED BY _____	
	TEMPLATE NO. _____	
	AREAS CHECKED _____	

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract\74349\SH1.155.vs.1133.oblong.sh1.dgn

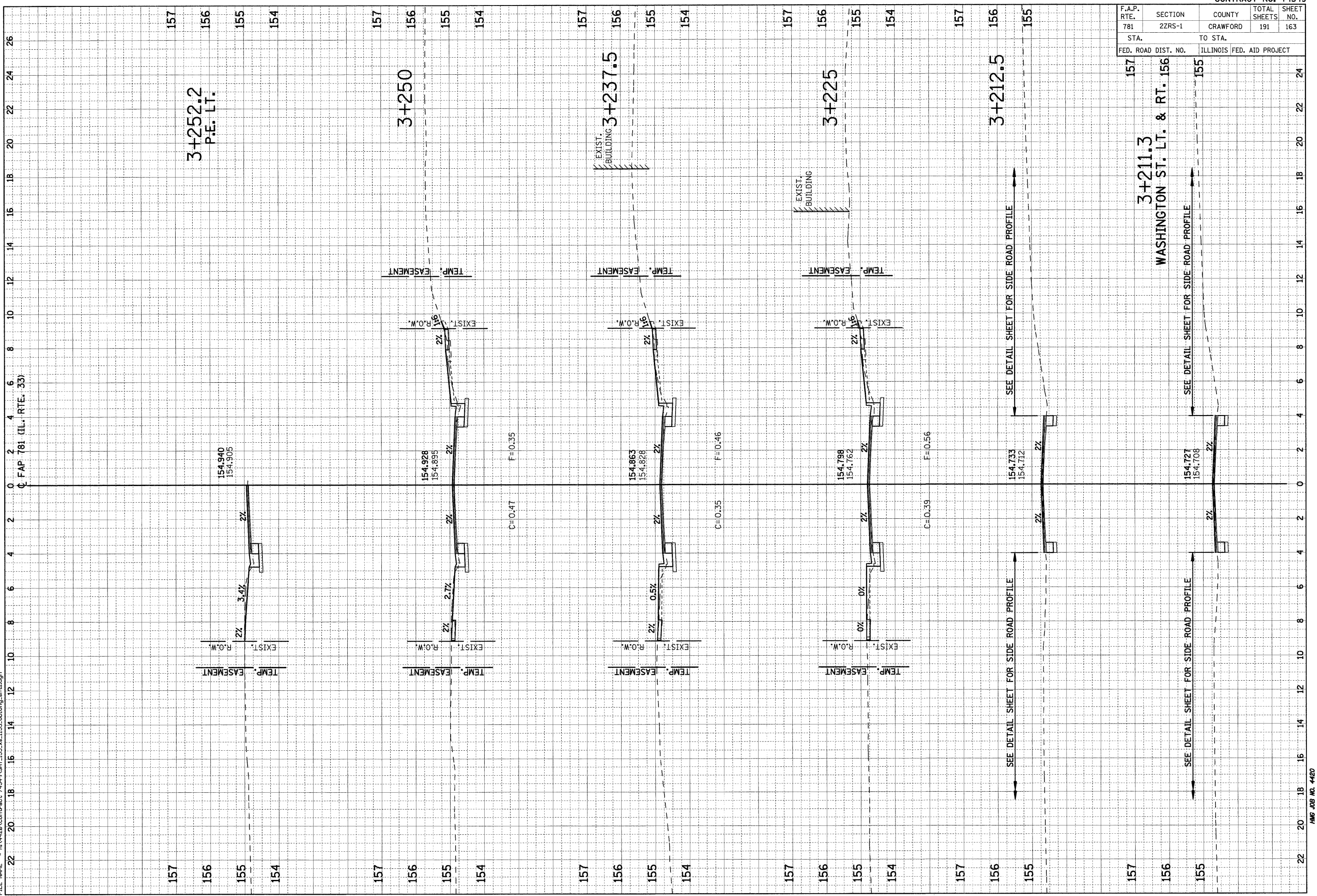


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	163
STA. 781		TO STA. 155		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY NO.	BY	DATE

ORIGINAL SURVEY NO.	BY	DATE

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xs\_1133\_ablong\_ah1.dgn



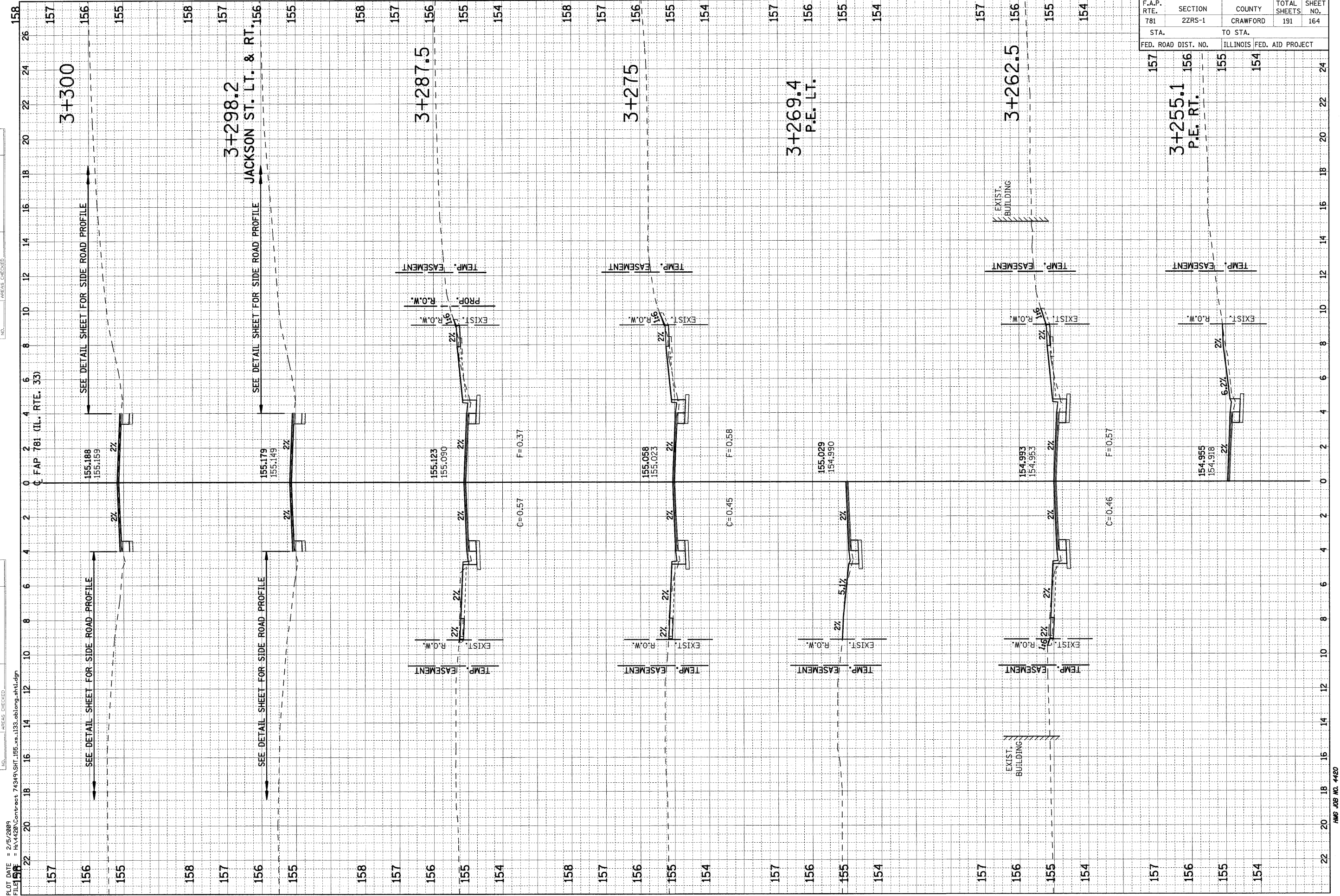
3+211.3  
 WASHINGTON ST. LT. & RT. 156



F.A.P. RTE. 781	SECTION 22RS-1	COUNTY CRAWFORD	TOTAL SHEETS 191	SHEET NO. 164
STA. 157		TO STA. 154		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



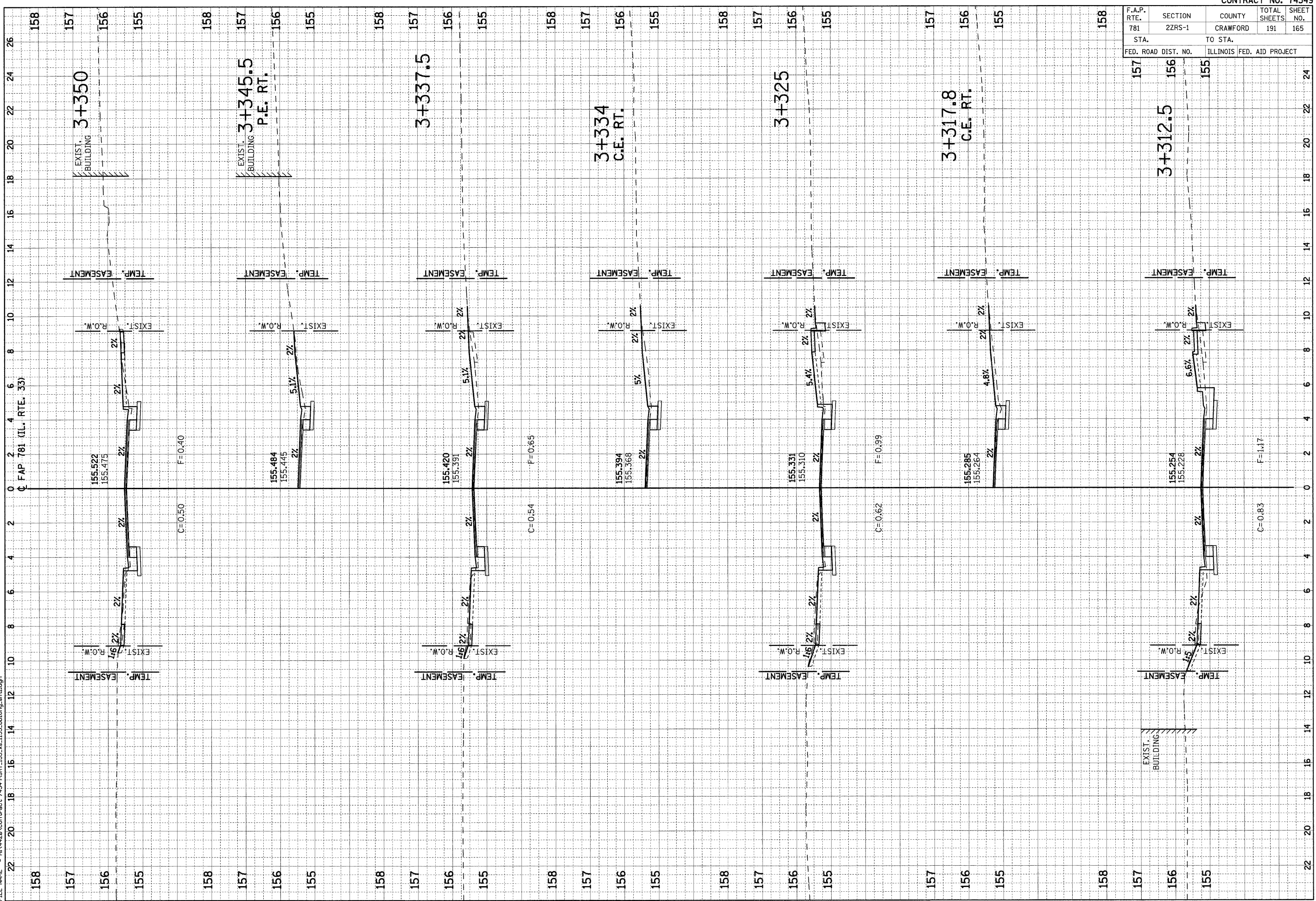
PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Cont-ect 74349\SH1\_155\_xe.1133\_oblong\_ah1.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	165
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 2/5/2009  
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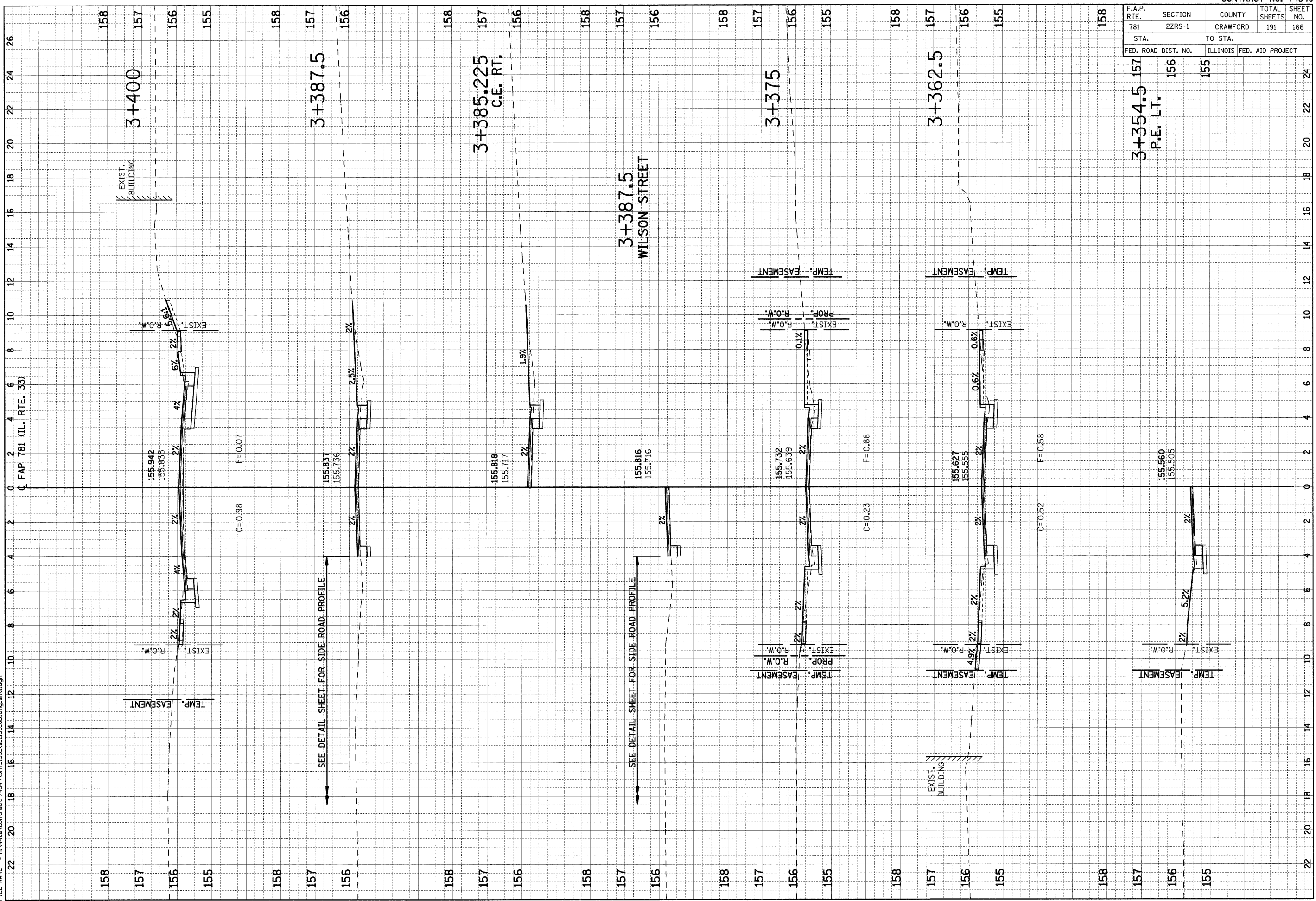
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	166
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

3+354.5  
P.E. LT. 156 155

FINL SURVEY	SURVEY	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEY	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 2/5/2009  
FILE NAME = H:\1120\Contract\74349\SH1\_155\_xa\_1133\_oblong\_ah1.dgn



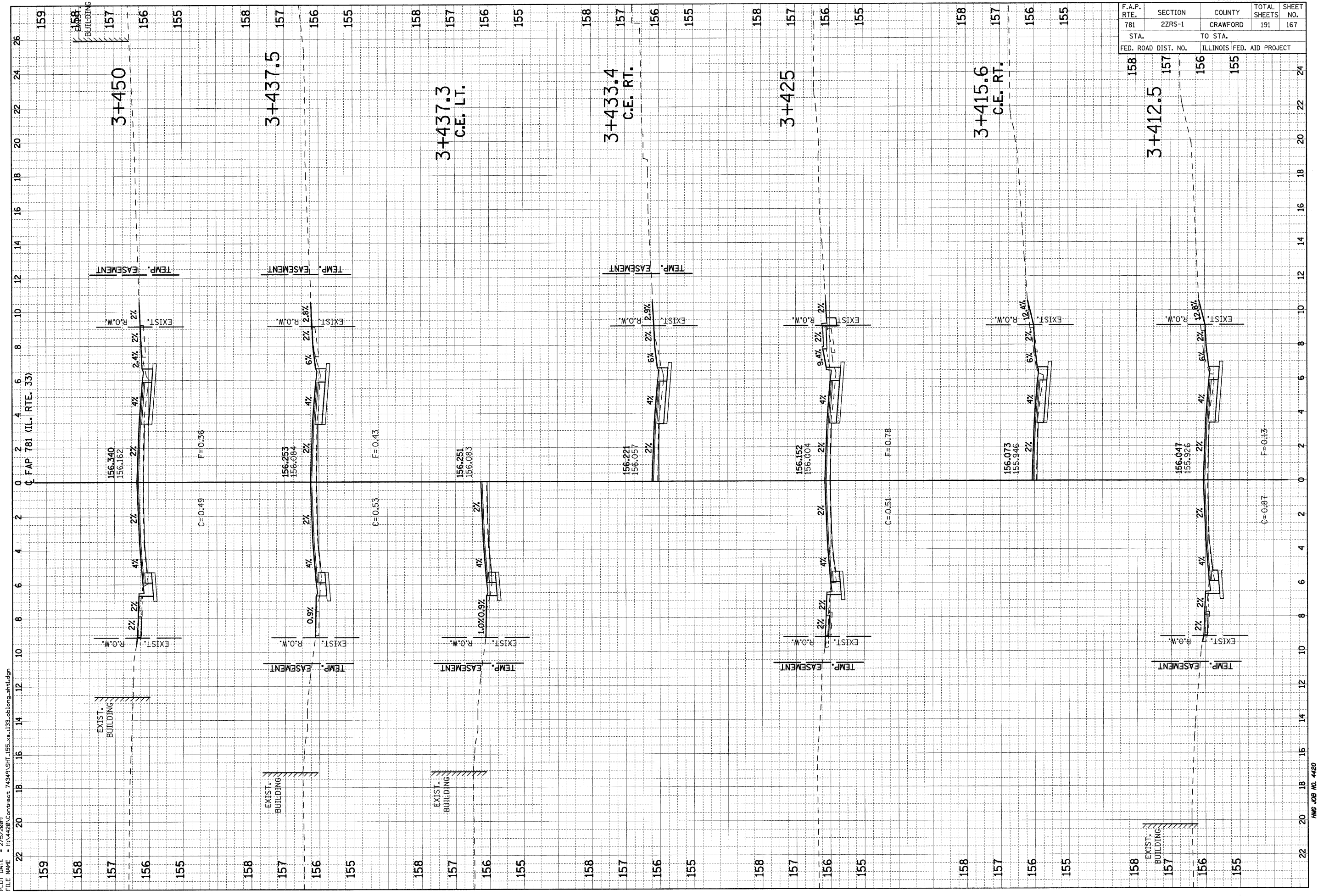


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	167
STA.		TO STA.		
158		155		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
158		155		

FINAL SURVEY NO.	DATE
SUBMITTED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
REVISIONS	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xe\_1133\_eblong\_ah1.dgn

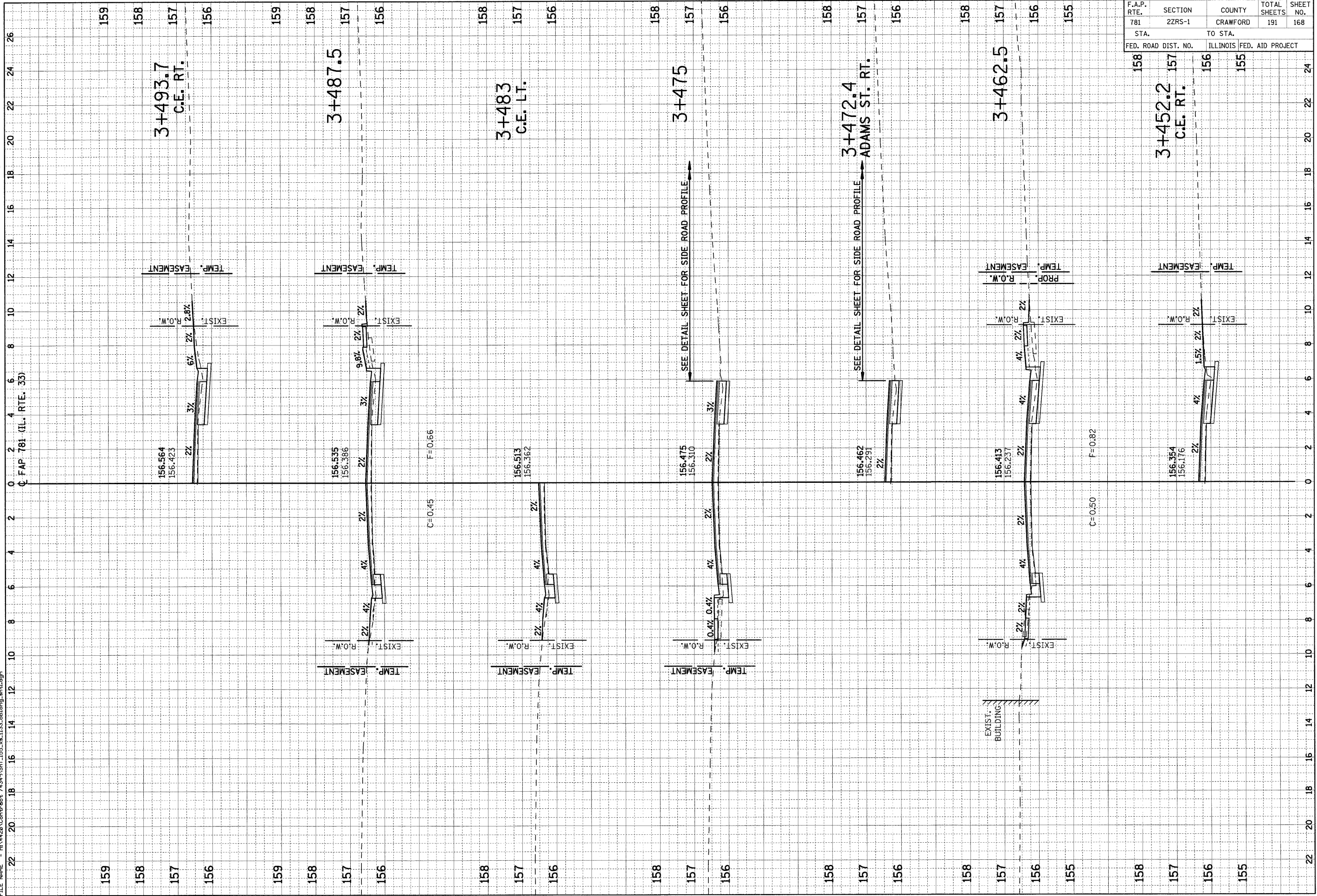


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	168
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xa\_1133\_ablong\_ah1.dgn





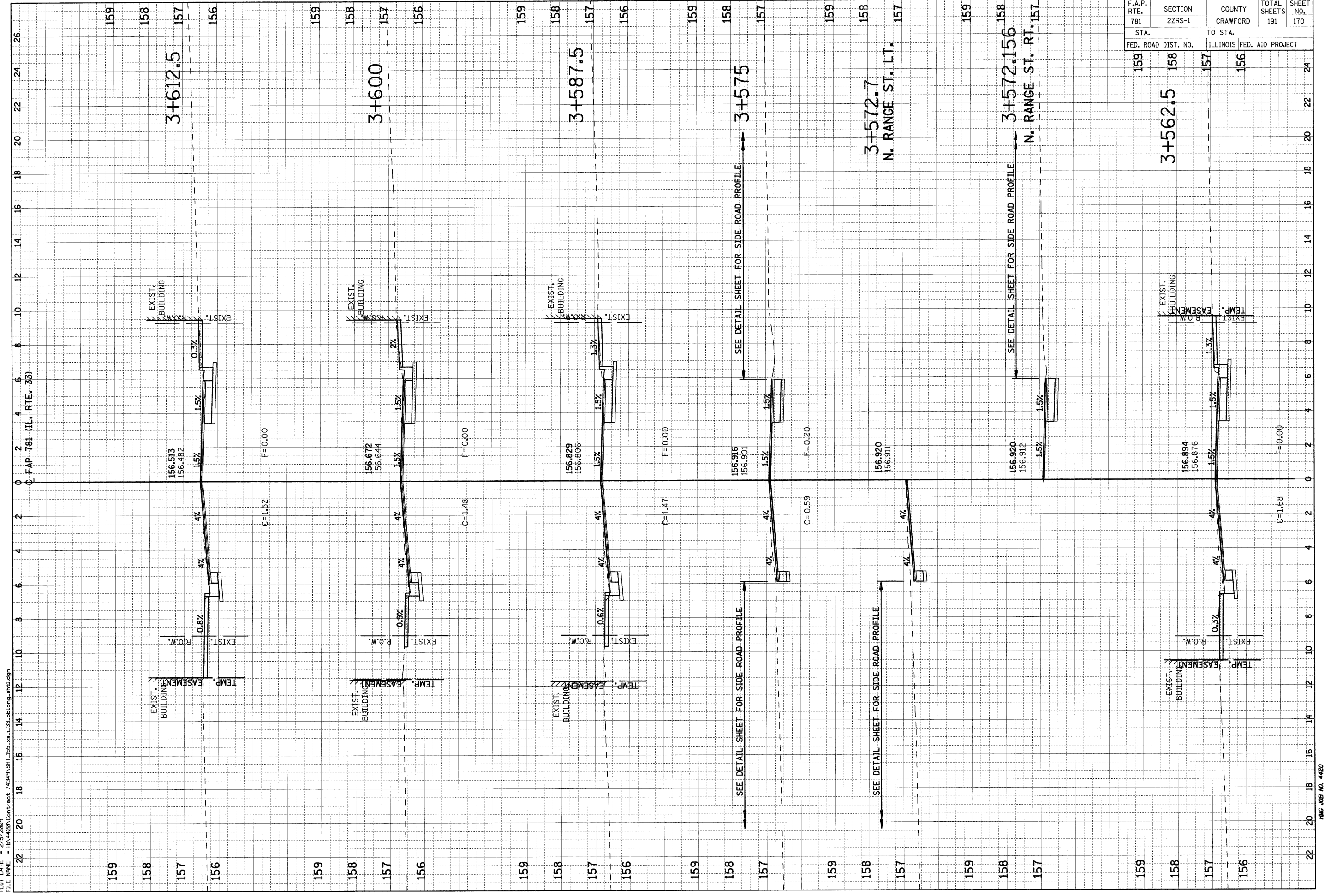


F.A.P. RTE. 781	SECTION 22RS-1	COUNTY CRAWFORD	TOTAL SHEETS 191	SHEET NO. 170
STA. 159		TO STA. 156		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	REVIEWED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1185\_xs.1133\_oblong\_ah1.dgn







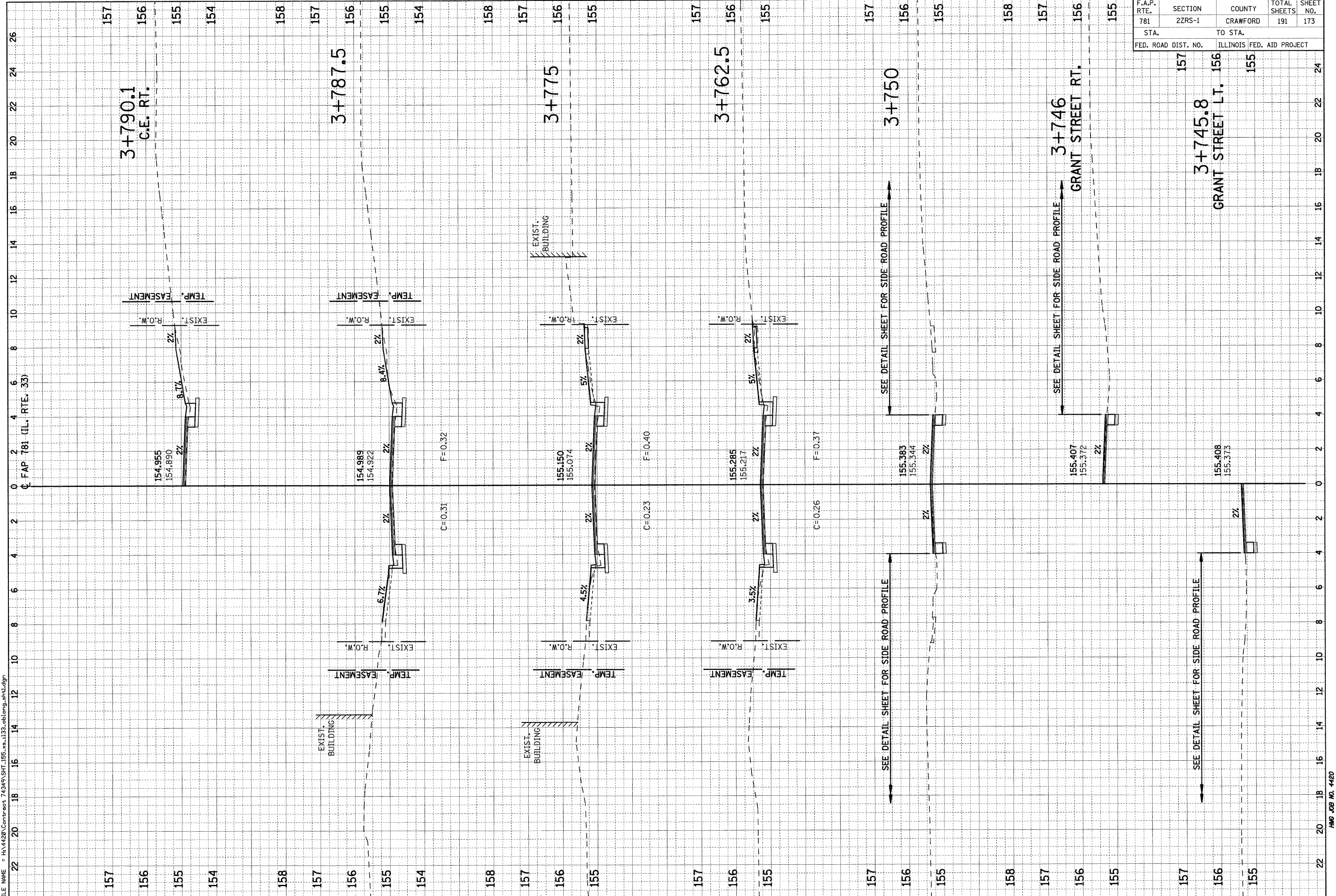


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	22RS-1	CRAWFORD	191	173
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		FED. AID PROJECT		

ORIGINAL SURVEY NO.	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

ORIGINAL SURVEY NO.	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

PLOT DATE = 2/5/2009  
 FILE NAME = H:\14120\Contract 74349\SH1\_155.xa\_1132.tblong\_sht1.dgn



SEE DETAIL SHEET FOR SIDE ROAD PROFILE

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

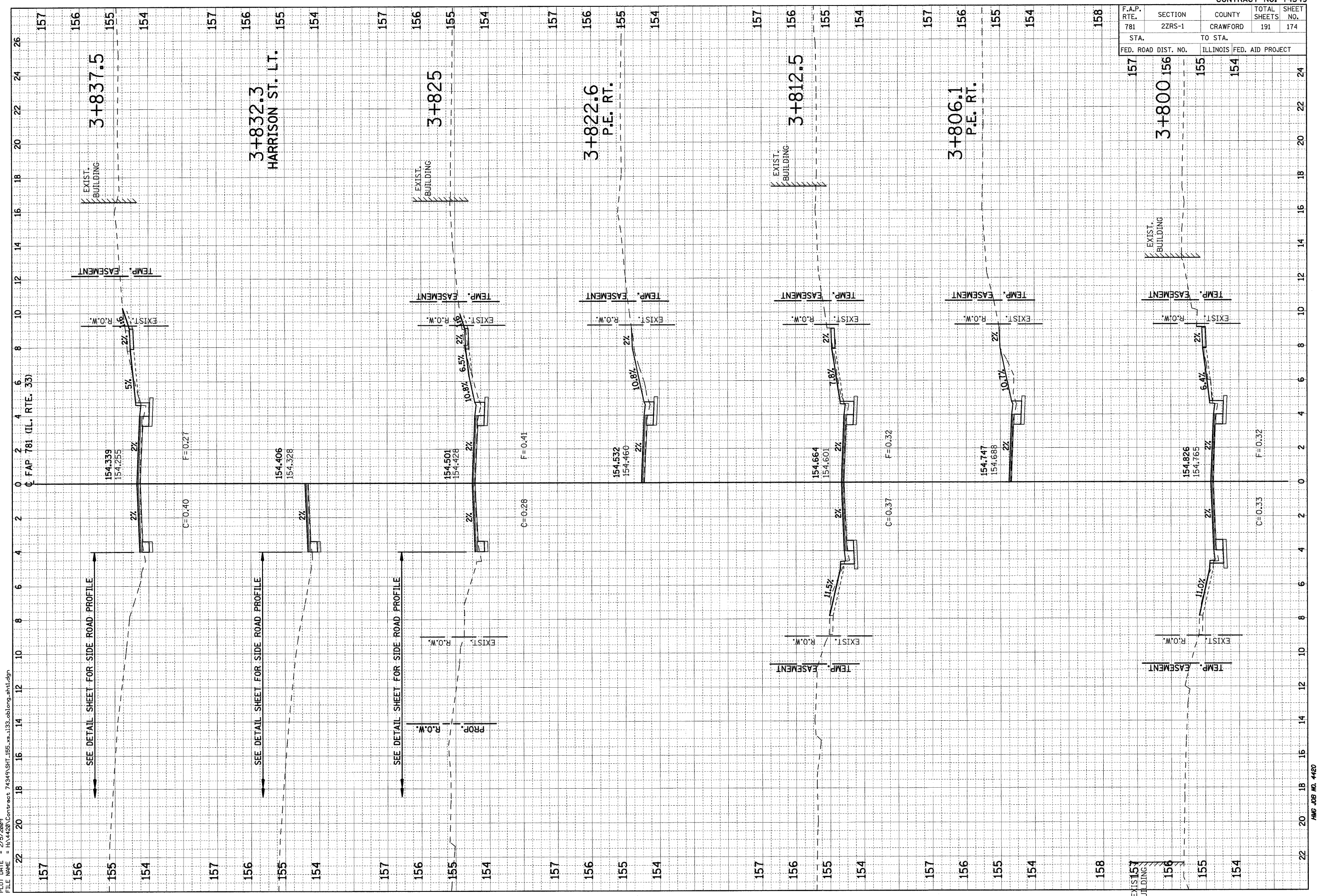


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	174
STA. TO STA.		ILLINOIS FED. AID PROJECT		
157 156 155 154				

ORIGINAL SURVEY NO.	DATE

ORIGINAL SURVEY NO.	DATE

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xe.1132\_oblong\_ah1.dgn



SEE DETAIL SHEET FOR SIDE ROAD PROFILE

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

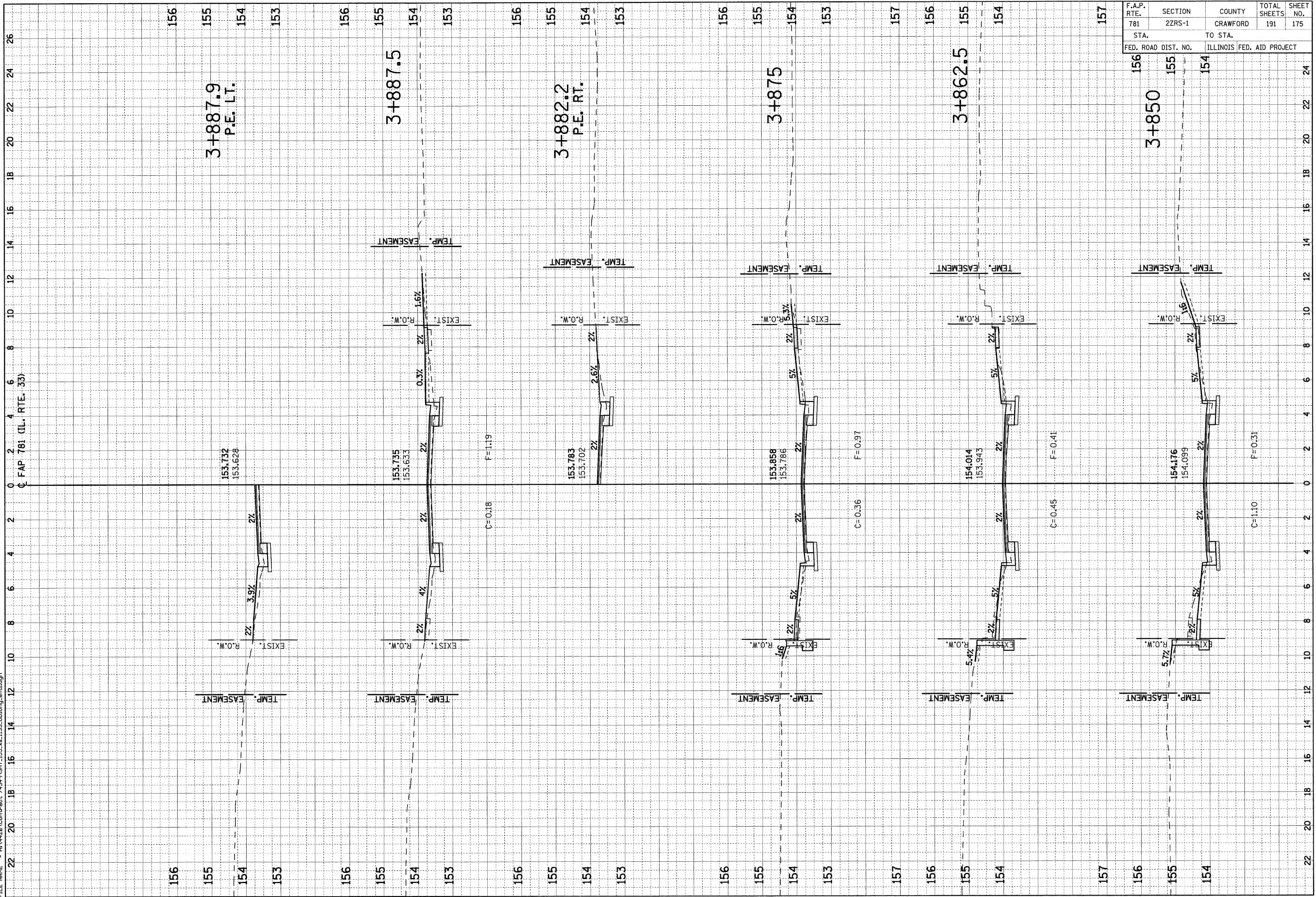
SEE DETAIL SHEET FOR SIDE ROAD PROFILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	175
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINN	SURVEY	DATE
NO.	AREAS CHECKED	

ORIGINAL	DATE
AREAS CHECKED	

PLOT DATE = 2/5/2009  
 FILE NAME = H:\1420\Contract\74349\SHT\_155\_xe-133\_oblong\_ah1.dgn



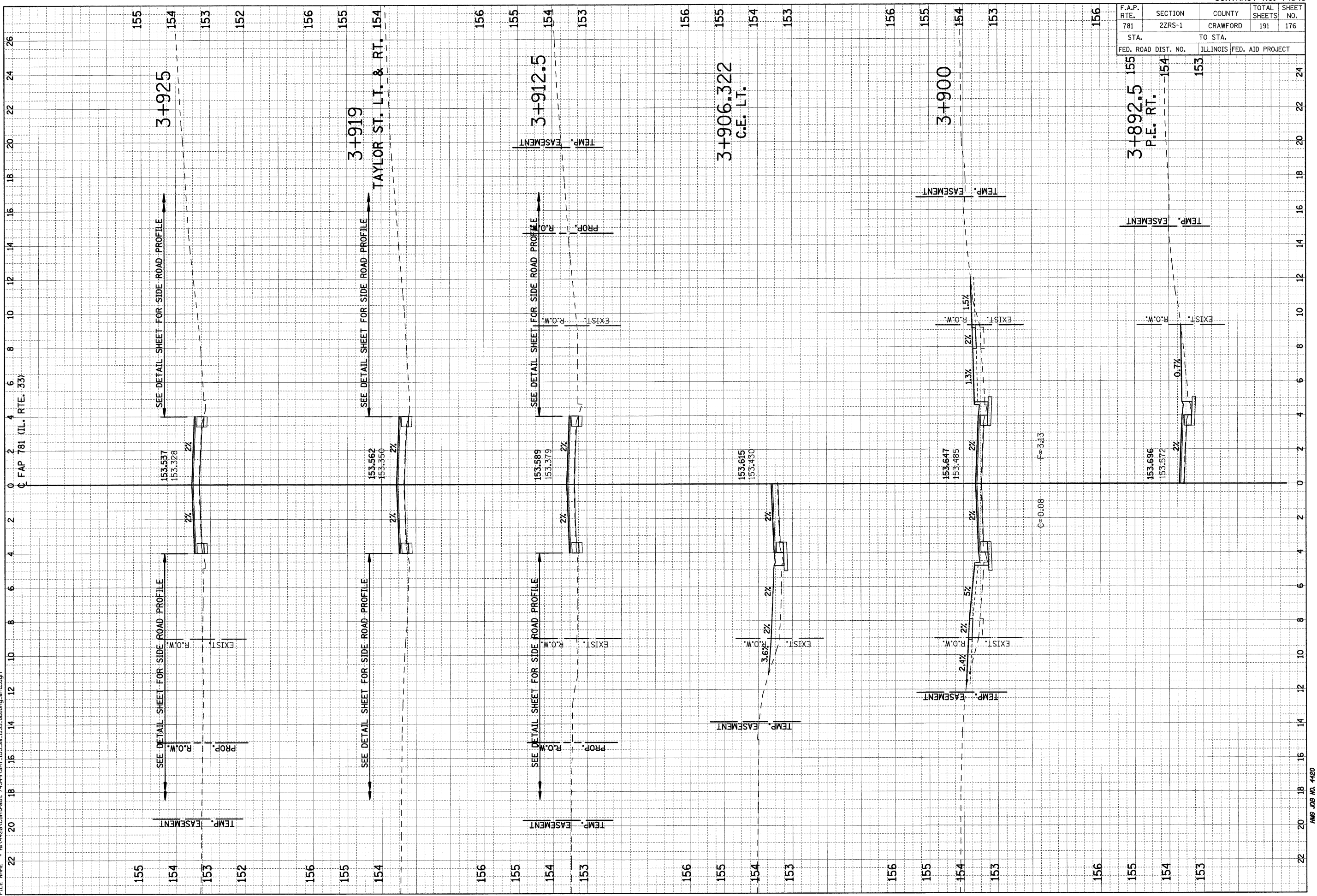


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	22RS-1	CRAWFORD	191	176
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
155		154		
3+892.5		153		
P.E. RT.				

ORIGINAL SURVEY NO.	DATE
BY	
REVISIONS	
NO.	

ORIGINAL SURVEY NO.	DATE
BY	
REVISIONS	
NO.	

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xe\_1133\_ahlong\_ah1.dgn

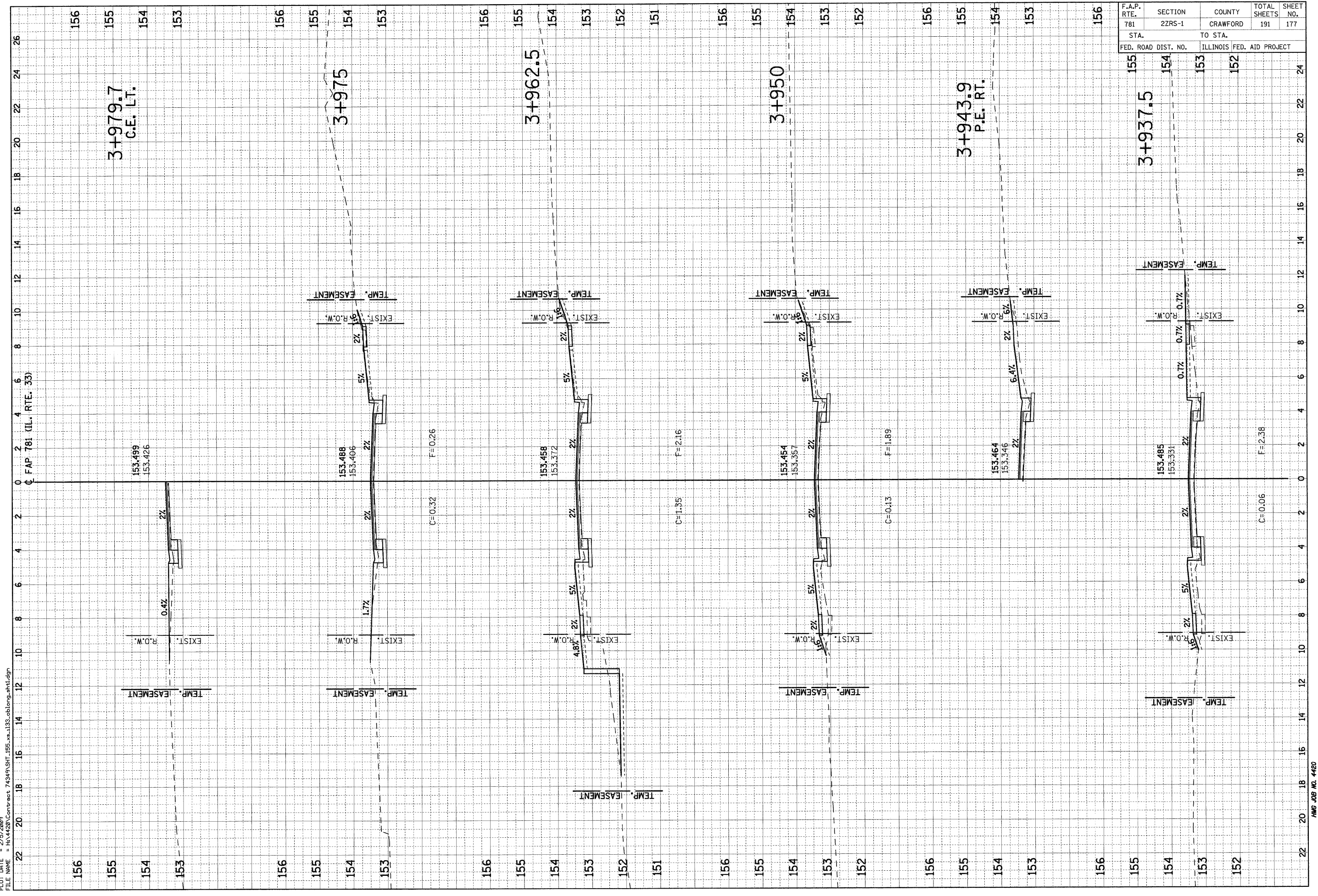


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	177
STA. TO STA.		ILLINOIS FED. AID PROJECT		
155	154	153	152	24

FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

PLOT DATE = 2/5/2009  
 FILE NAME = H:\1428\Contract 74349\SHT\_155.wa-133.tblong.ah1.dgn

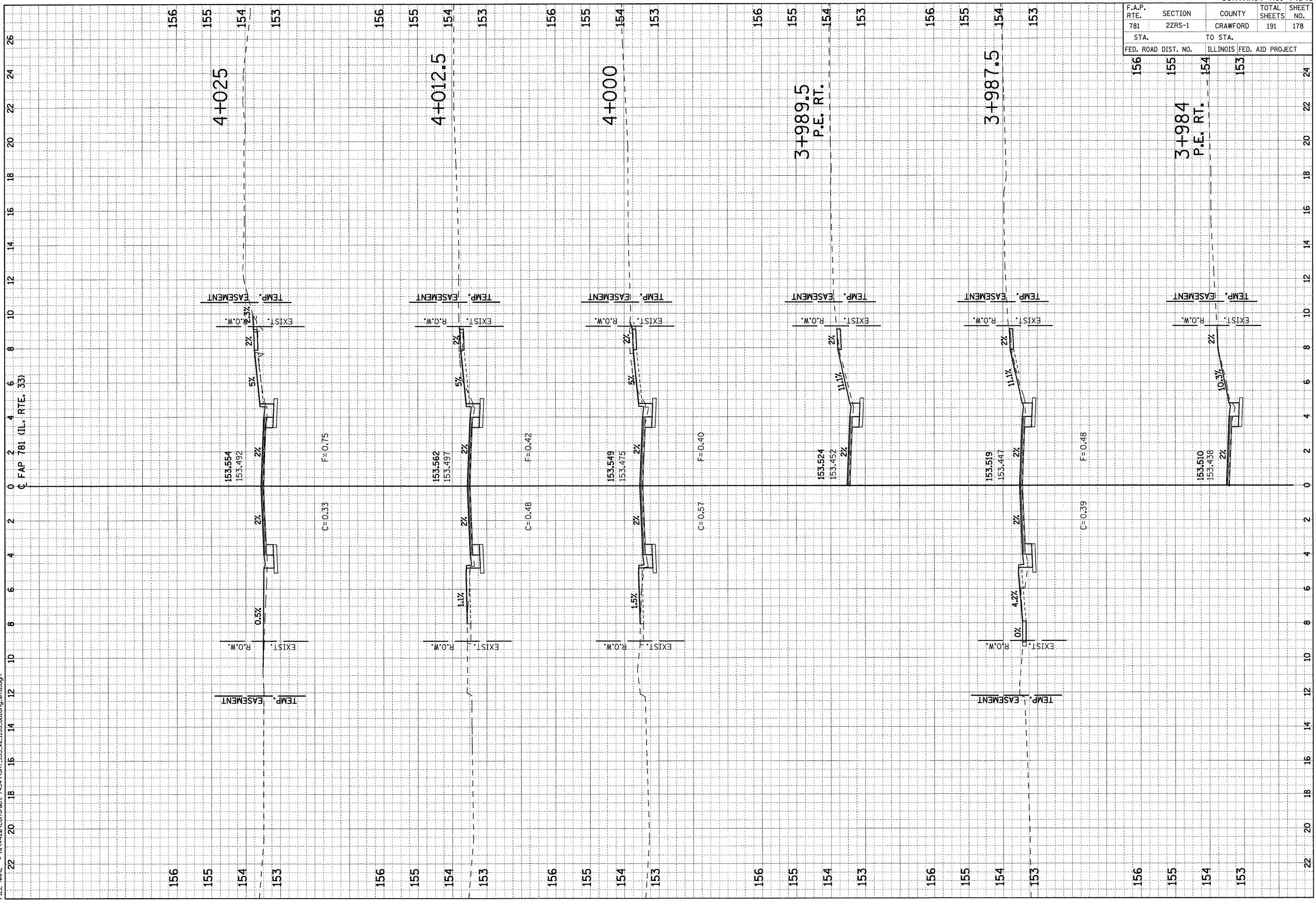


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	178
STA.		TO STA.		
156		153		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY NO.	SURVEY PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEY PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

PLOT DATE = 2/5/2009  
 FILE NAME = H:\1420\Contract 74349\SHT\_155\_vs\_133\_oblong\_ah1.dgn



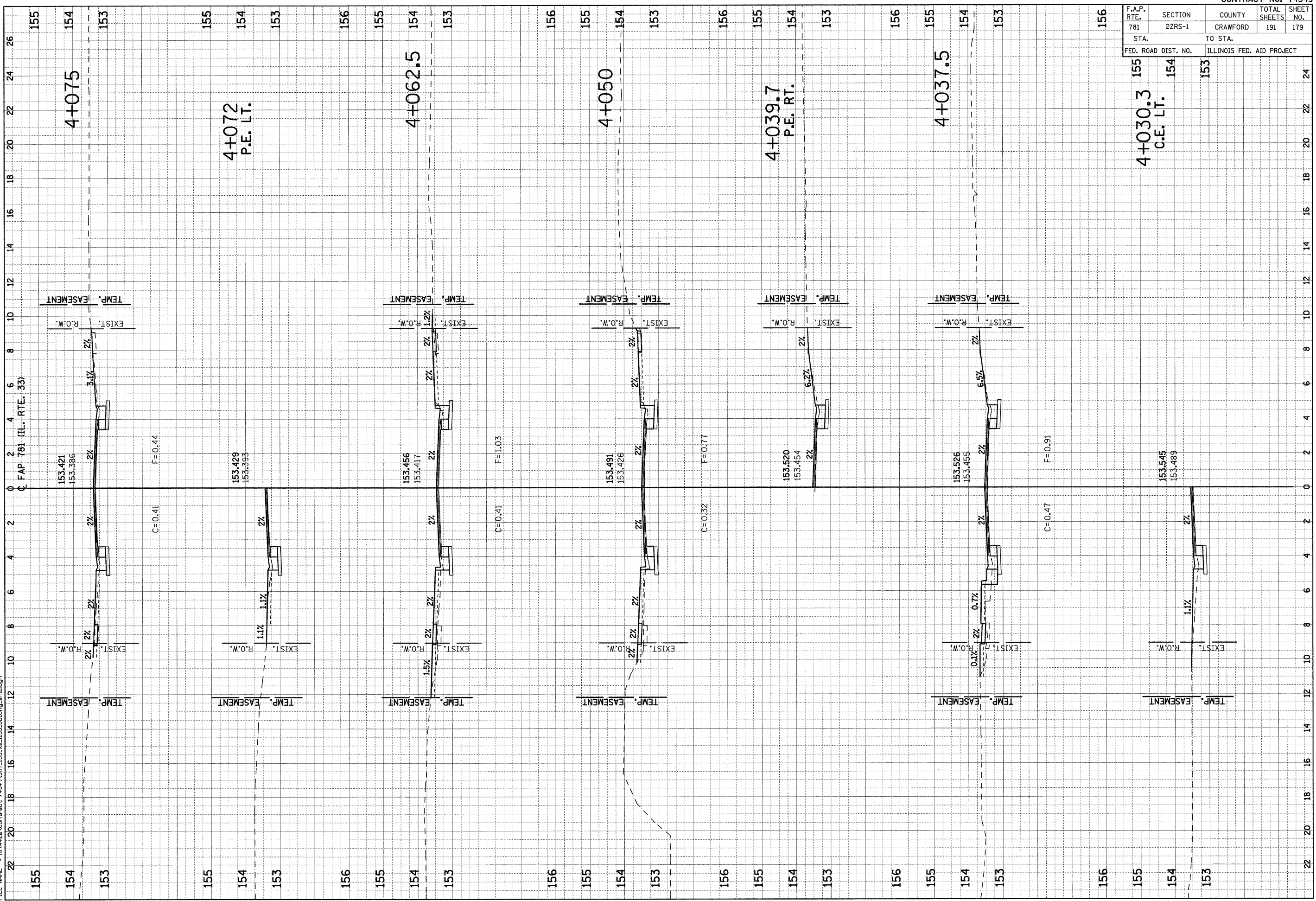


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	179
STA. 155 TO STA. 153		ILLINOIS FED. AID PROJECT		

NO.	AREAS CHECKED	DATE

NO.	AREAS CHECKED	DATE

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155.XA-1132.oblong.sht.dgn



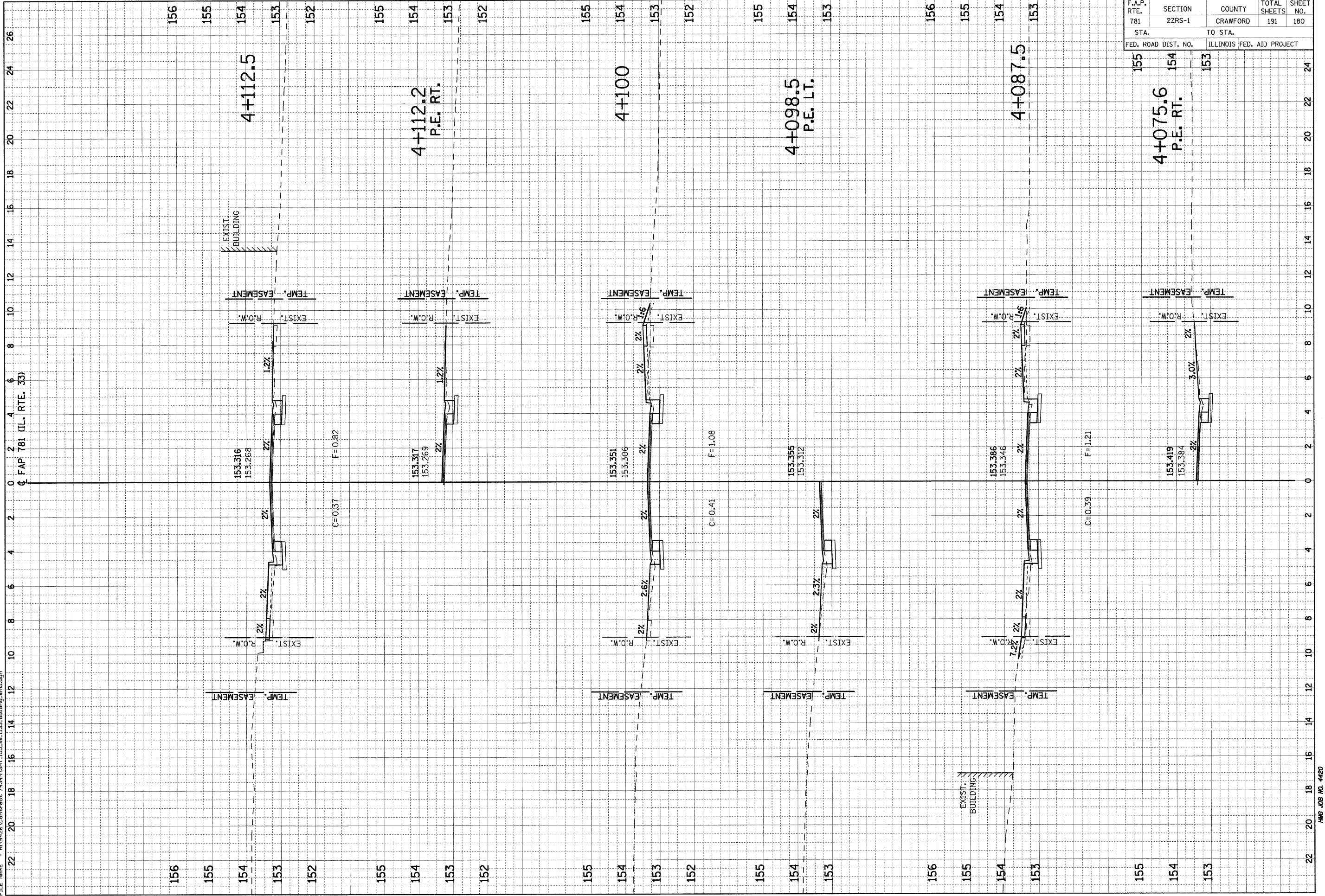


F.A.P. RTE. 781	SECTION 22RS-1	COUNTY CRAWFORD	TOTAL SHEETS 191	SHEET NO. 180
STA. 155		TO STA. 153		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xa\_1133\_eblong\_ah1.dgn

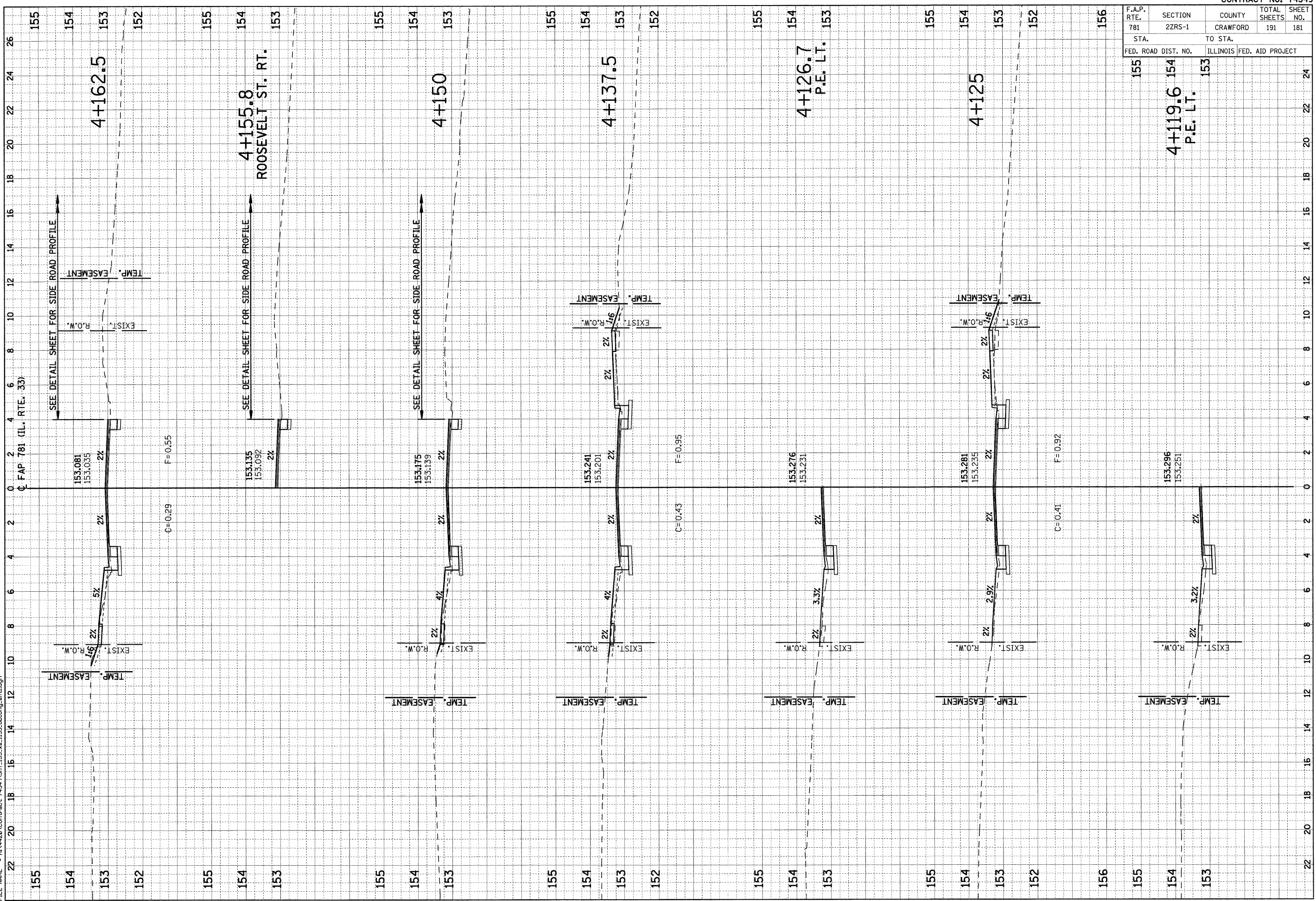


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	181
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	DATE
NO. _____	_____
NOTE BOOK	BY _____
PLATE	DATE _____
TEMP. EASEMENT	BY _____
EXIST. R.O.W.	DATE _____
EXIST. R.O.W.	DATE _____
EXIST. R.O.W.	DATE _____
EXIST. R.O.W.	DATE _____

ORIGINAL SURVEY	DATE
NO. _____	_____
NOTE BOOK	BY _____
PLATE	DATE _____
TEMP. EASEMENT	BY _____
EXIST. R.O.W.	DATE _____
EXIST. R.O.W.	DATE _____
EXIST. R.O.W.	DATE _____
EXIST. R.O.W.	DATE _____

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract\74349\SH1\_155\_xe\_1133\_oblong\_ah1.dgn

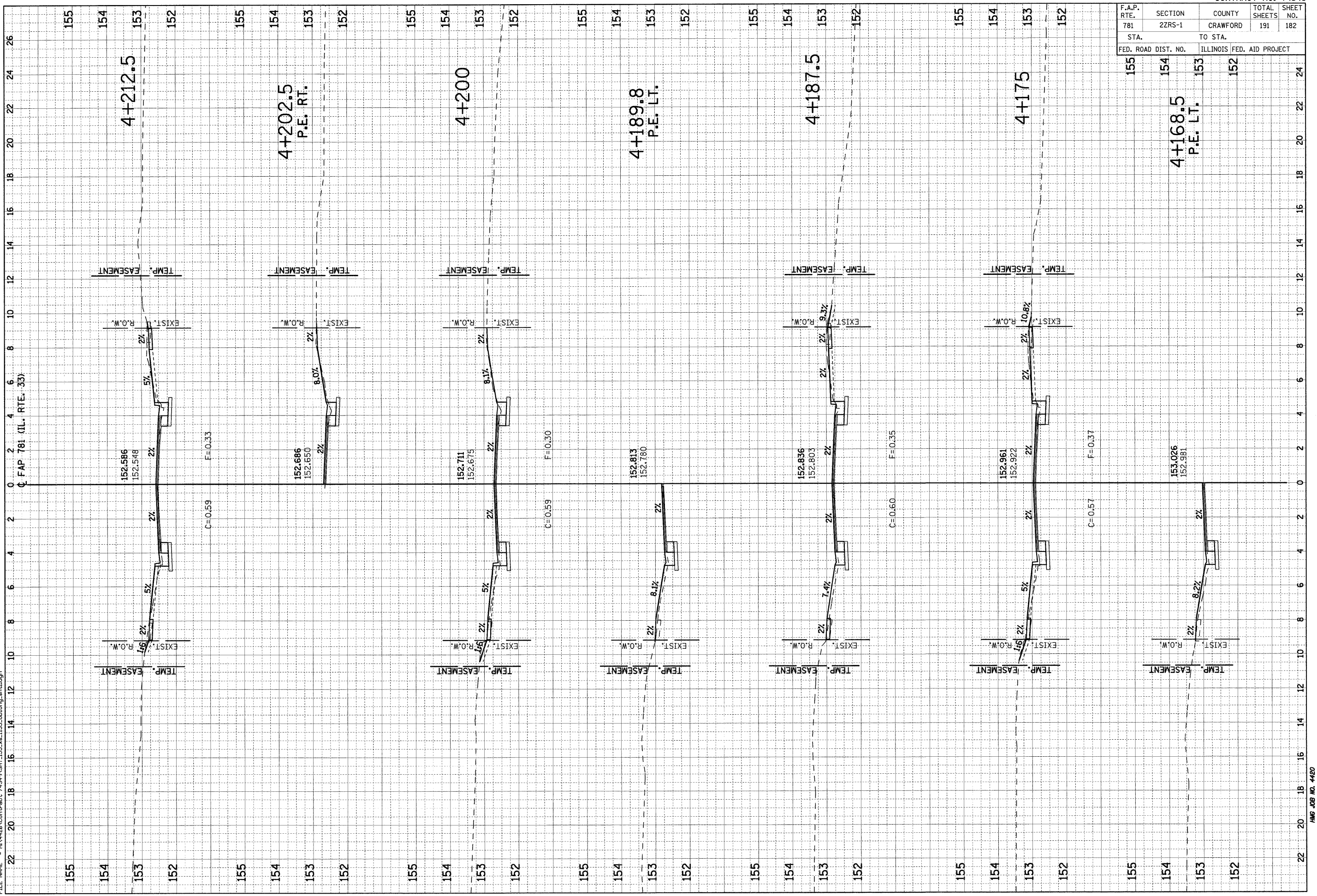


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	182
STA. 155		TO STA. 152		
FED. ROAD DIST. NO. 155		ILLINOIS FED. AID PROJECT 152		

ORIGINAL SURVEY NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		

PLOT DATE = 2/5/2009  
 FILE NAME = H:\1420\Contract\74349\SH155\_xe\_133\_oblong\_ah1.dgn





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	183
STA.		TO STA.		
154		152		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
154	4+220.5 P.E. LT.		153	

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4120\Contract 74349\SH1\_155\_xa\_1133\_cblong\_ah1.dgn



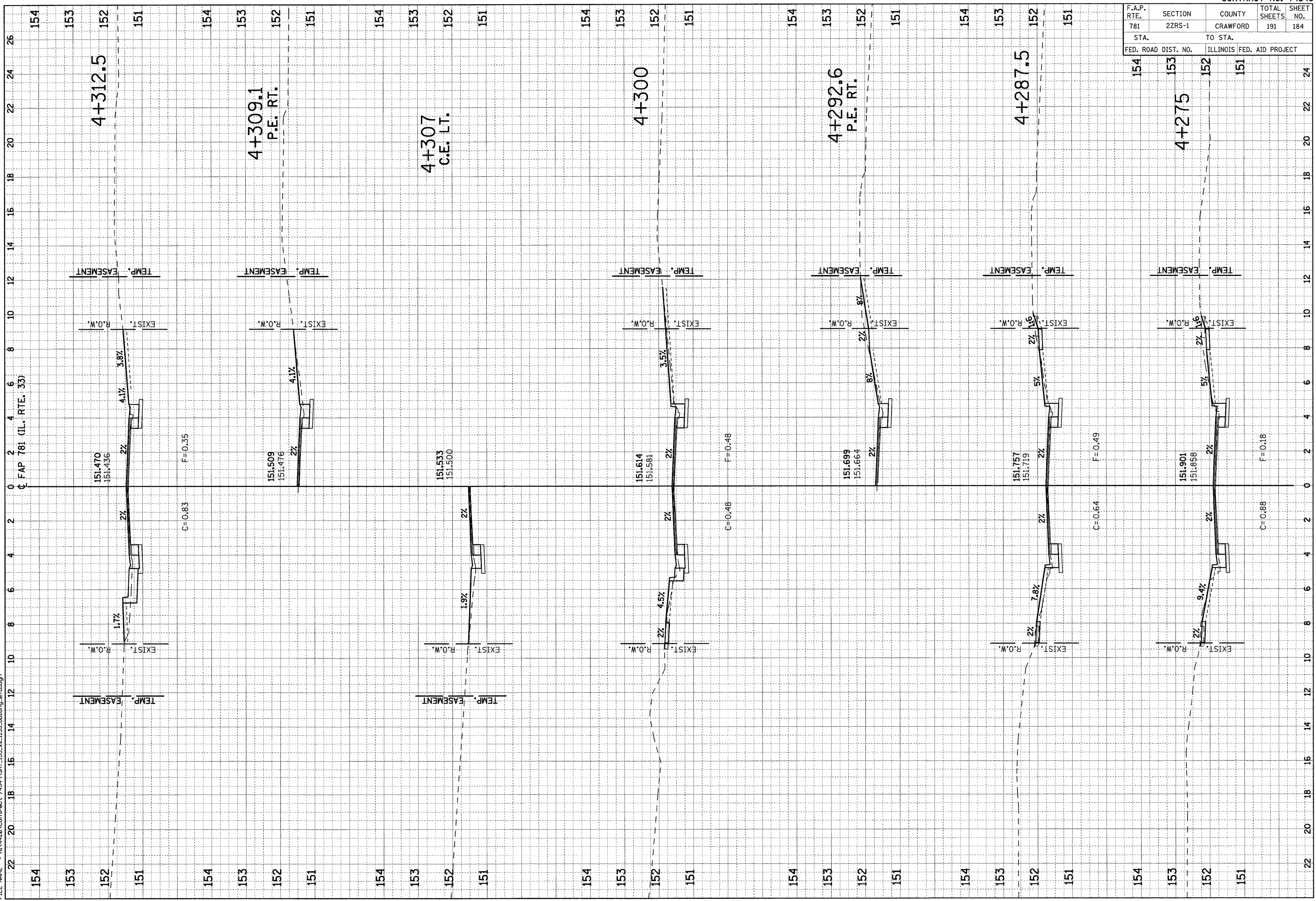


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	22RS-1	CRAWFORD	191	184
STA.		TO STA.		
154		151		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 2/5/2009  
 FILE NAME = H:\1420\Contract\74349\SH1\_155.vc\133.oblong\_ah1.dgn



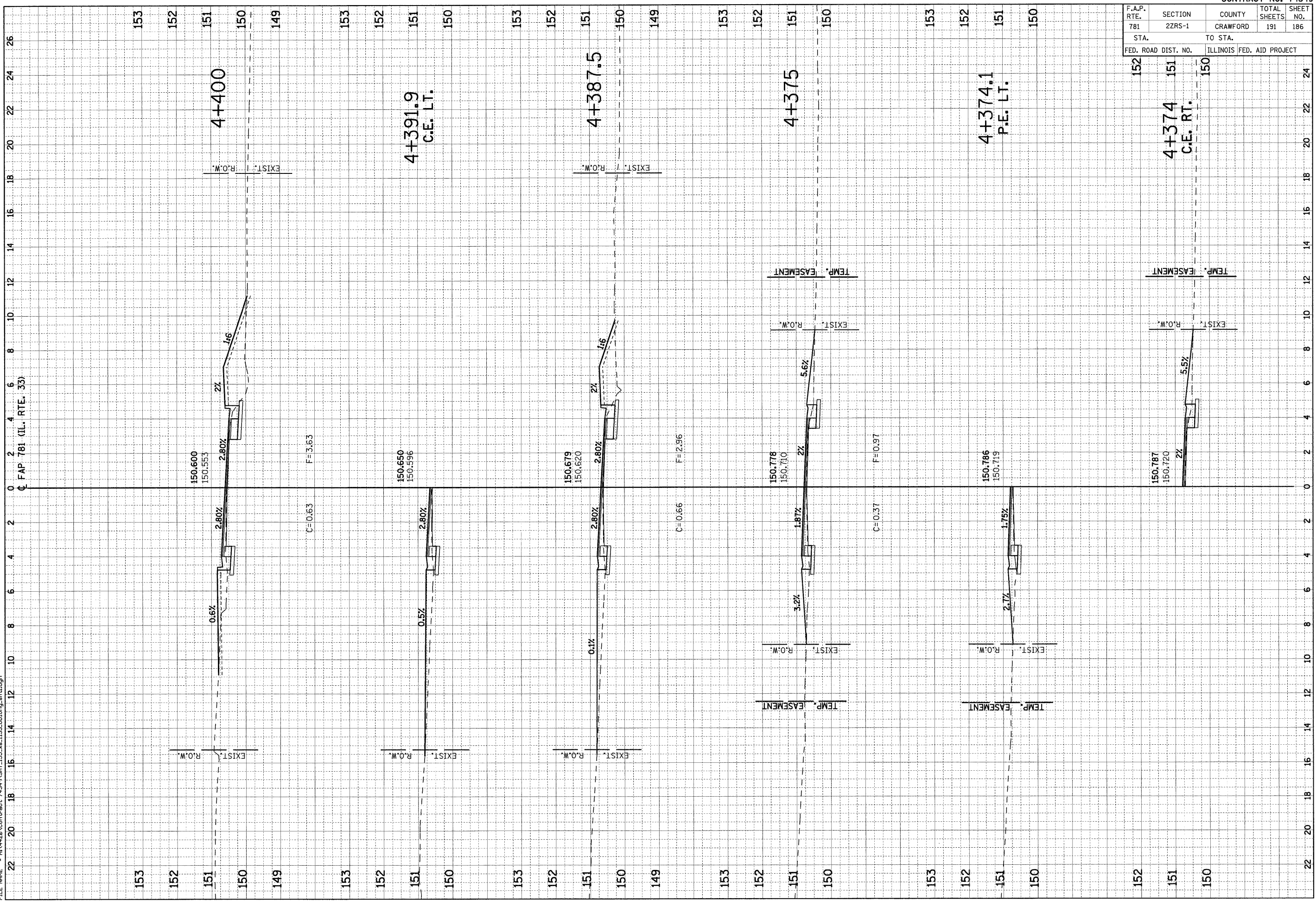


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	22RS-1	CRAWFORD	191	186
STA.		TO STA.		
152		150		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xe\_1133\_eblong\_ah1.dgn



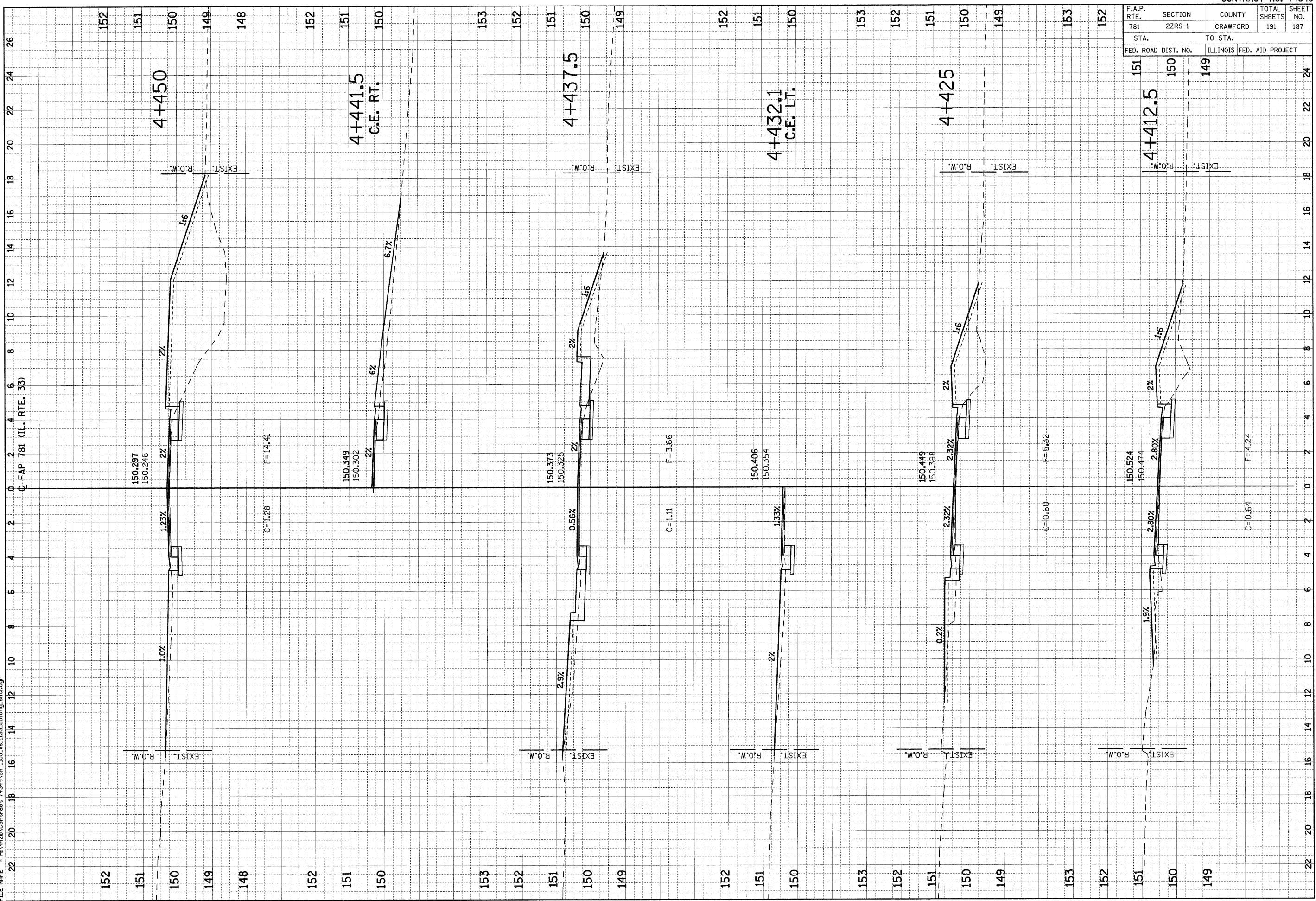


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	187
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	REVISIONS	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

PLOT DATE = 2/5/2009  
 FILE NAME = H:\4420\Contract 74349\SH1\_155\_xa\_1133\_ablong\_ah1.dgn



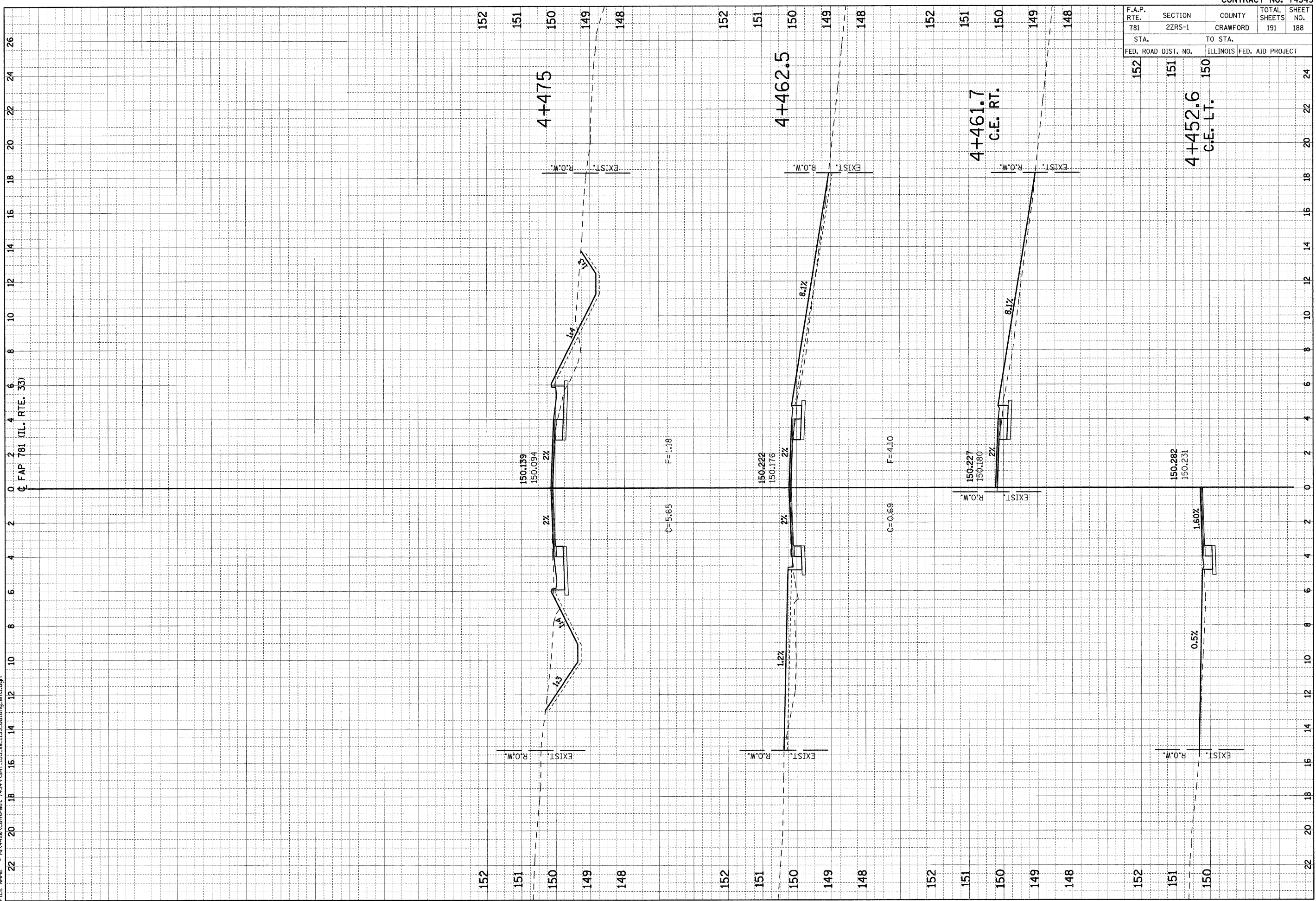


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	188
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	DATE
NO.	

ORIGINAL SURVEY	DATE
NO.	

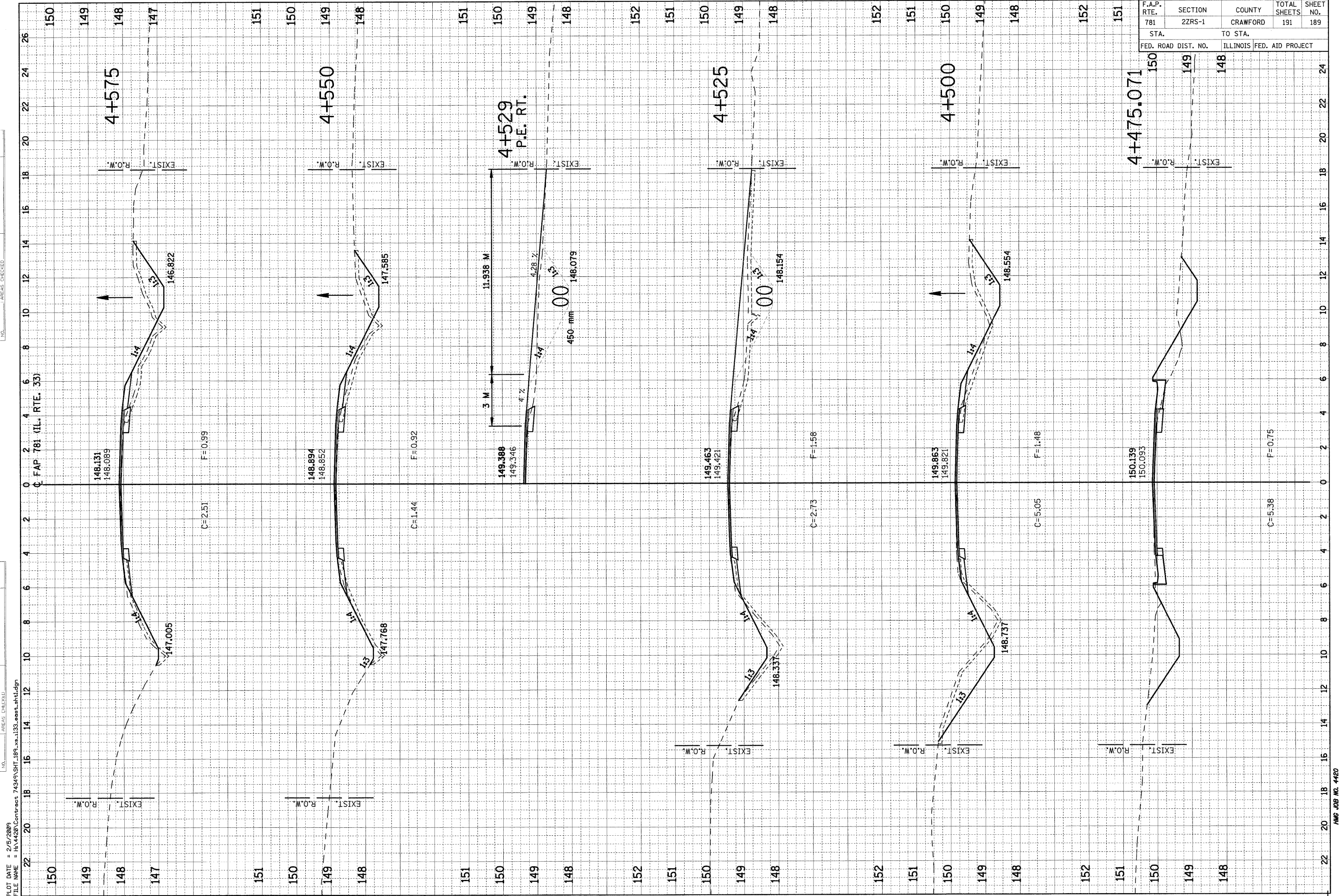
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	189
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY NOTE BOOK NO.	DATE

SWAPPED SURVEY NOTE BOOK NO.	DATE



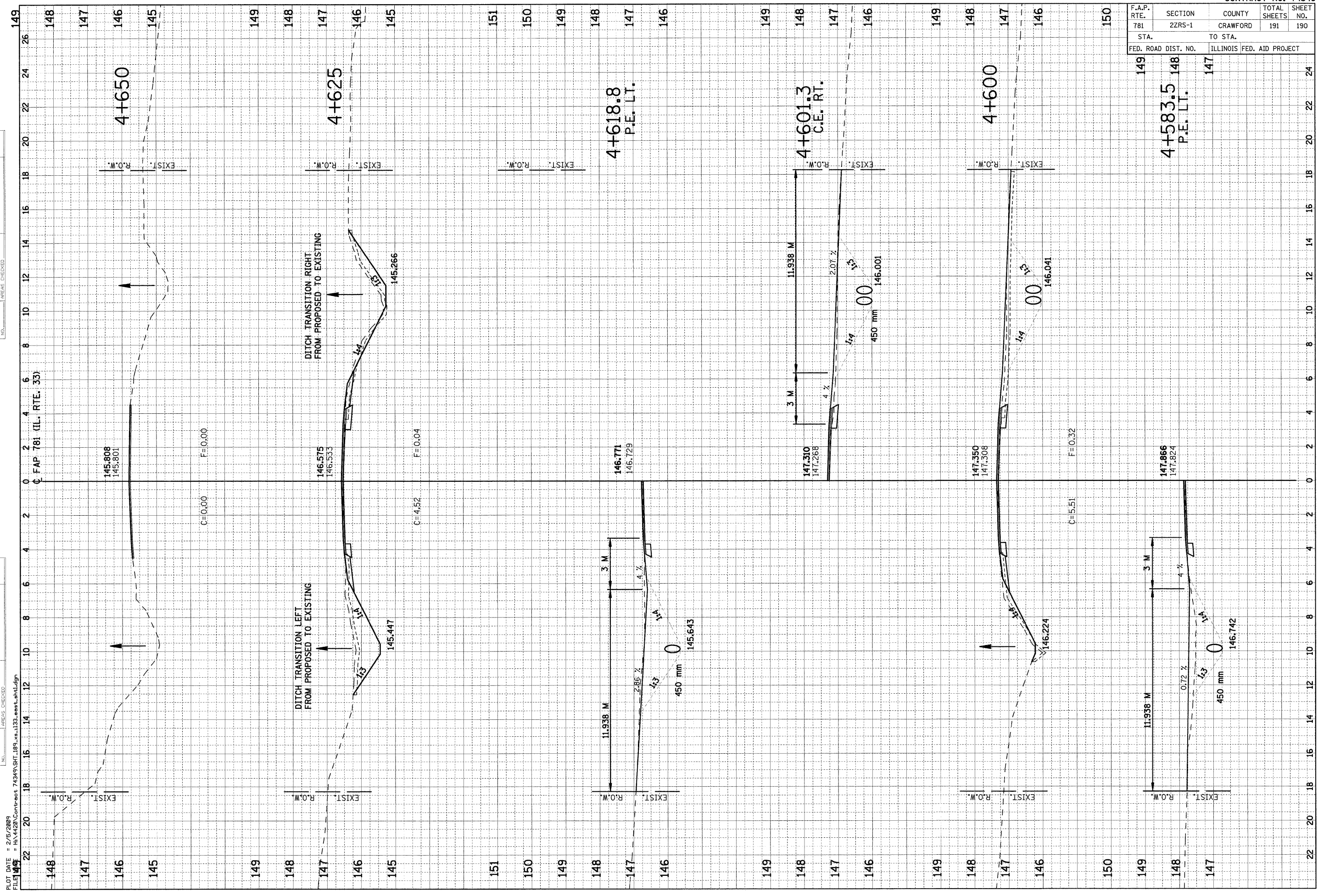
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	190
STA. 149		TO STA. 147		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED AREAS CHECKED
BY _____	DATE _____
FINISHED SURVEY NOTE BOOK NO.	REVISIONS CHECKED
BY _____	DATE _____

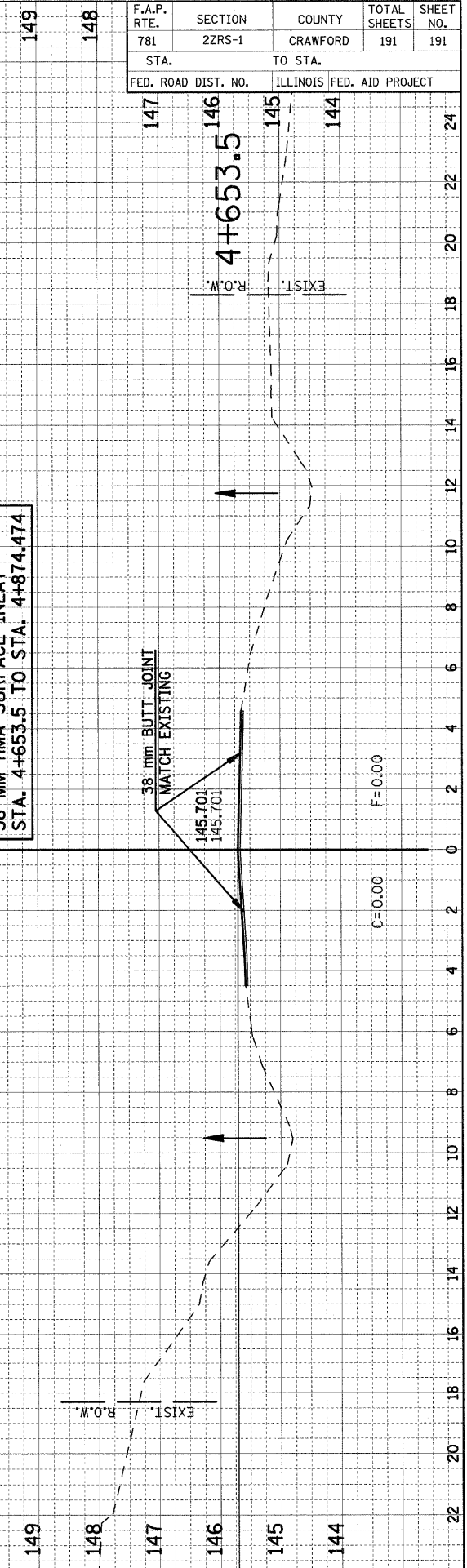
ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED AREAS CHECKED
BY _____	DATE _____
FINISHED SURVEY NOTE BOOK NO.	REVISIONS CHECKED
BY _____	DATE _____

PLOT DATE = 2/5/2009  
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	2ZRS-1	CRAWFORD	191	191
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



38 MM HMA SURFACE INLAY  
STA. 4+653.5 TO STA. 4+874.474

C.F.A.P. 781 (IL. RTE. 33)

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

PLOT DATE = 2/5/2009  
FILE NAME = H:\4420\Contract 74349\SH1189\_xs.1133\_east.sht.dgn