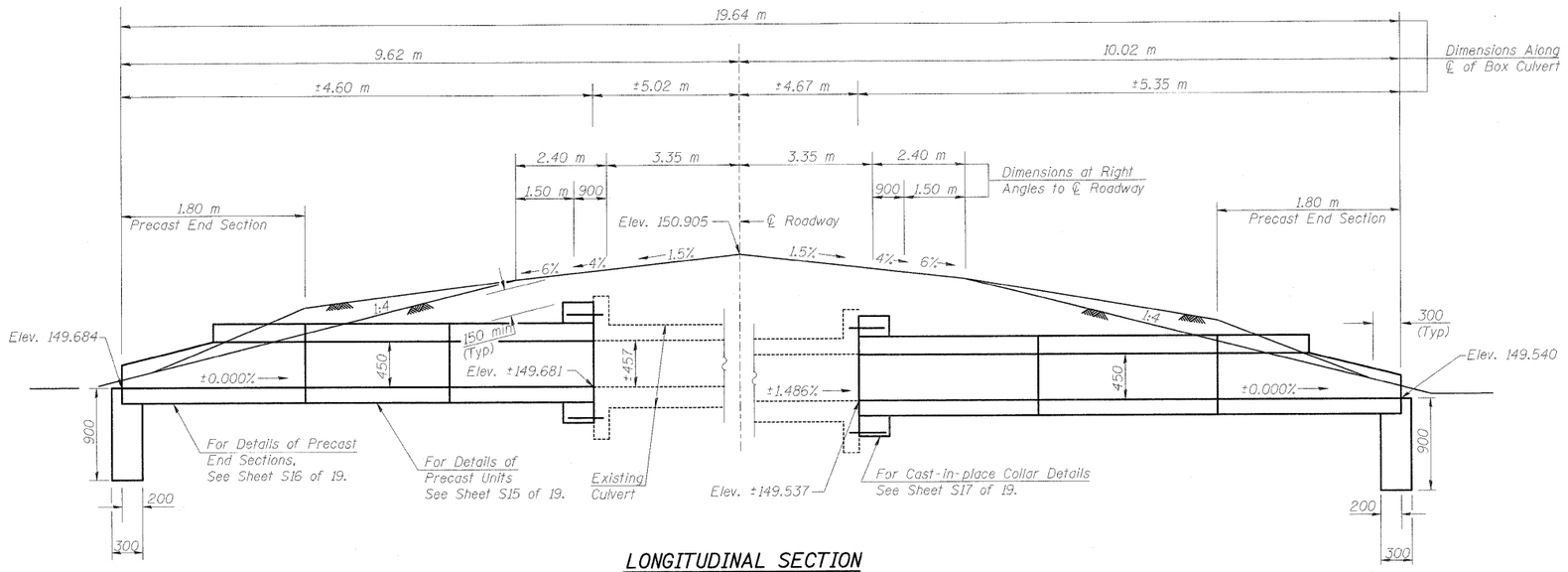
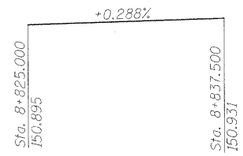
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	101
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

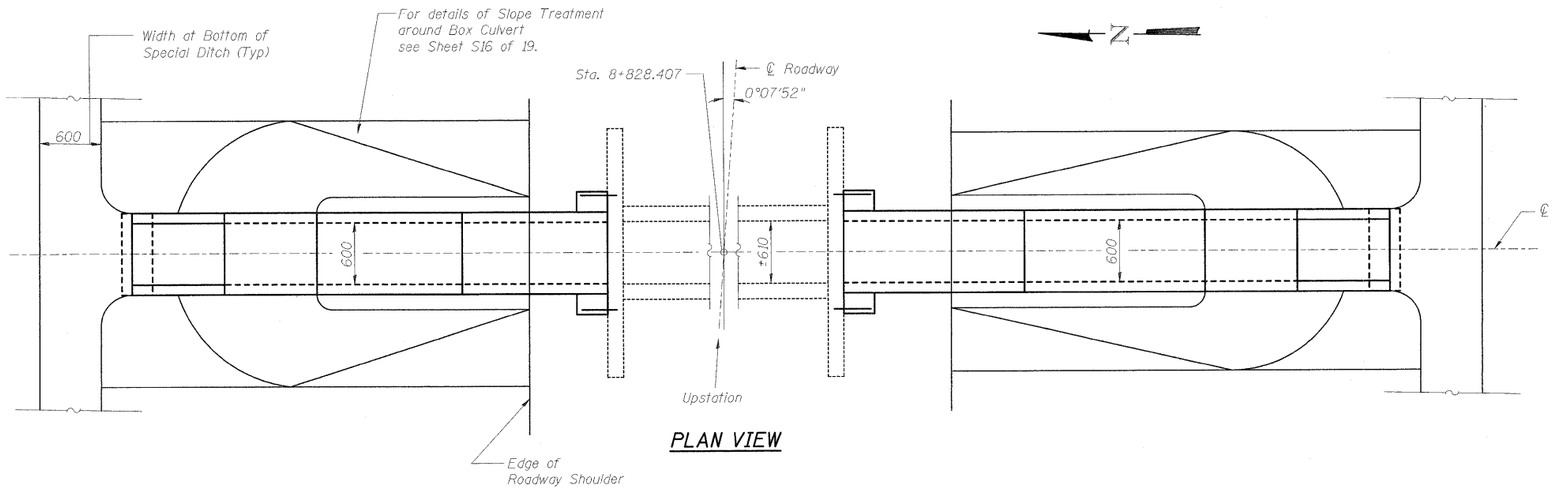
Existing Structure: The structure is a single barrel 610 mm x 457 mm box culvert at a skew of 0°07'52" right forward. The culvert has an overall length of 9.69 m. The contractor shall extend the culvert on each end for the dimensions shown.



LONGITUDINAL SECTION



PROFILE GRADE



PLAN VIEW

BILL OF MATERIAL - BOX CULVERT NO. 15

	Item	Unit	Total
M5030350	Concrete Structures	cu. m.	0.5
M5080205	Reinforcement Bars, Epoxy Coated	kg	90
* M5401002	Precast Concrete Box Culvert (600x450)	m	6.4
* 5401015	Box Culvert End Section, Culvert No. 15	Each	2
M5403220	Expansion Bolts (M20x250)	Each	24
M2810707	Stone Riprap, Class A4	sq. m.	See Plans

* Non-standard size.

SHEET S8 OF 15

REVISIONS	
NAME	DATE
LWJ	12-18-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
BOX CULVERT EXTENSIONS
GENERAL PLAN & ELEVATION
BOX CULV. NO. 15, STA. 8+828.407

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

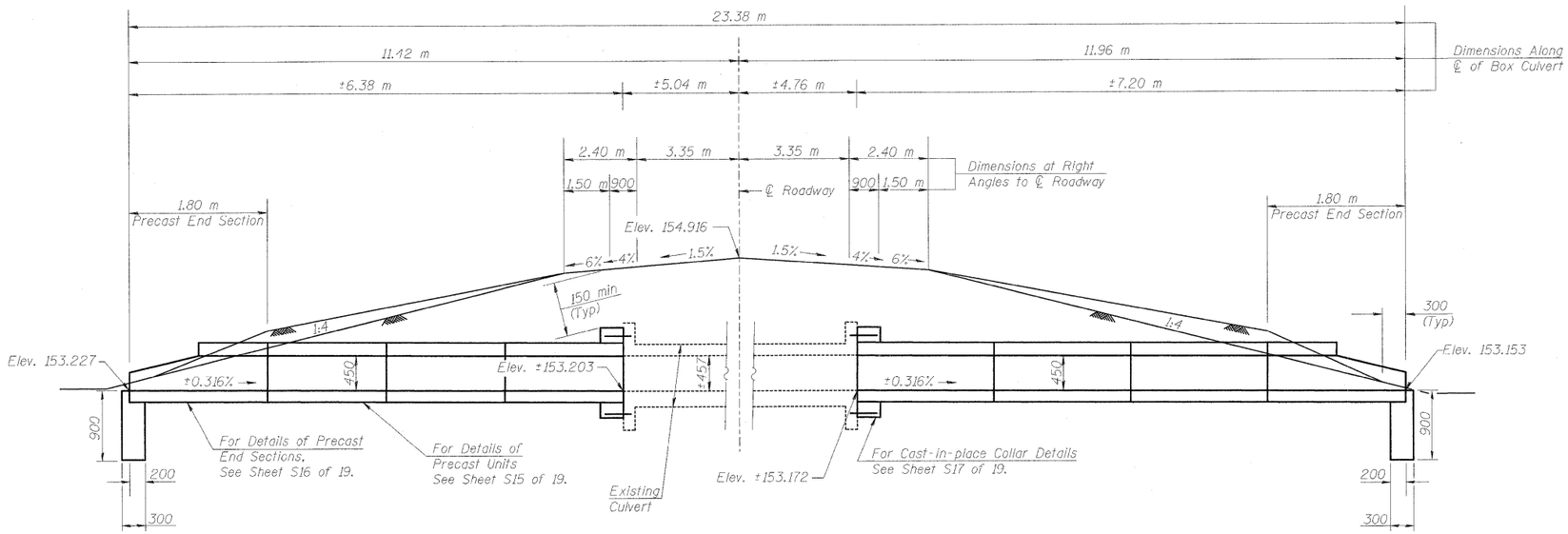
LIN NO. 9803

PLOT DATE = 12/22/2008
FILE NAME = H:\4428\Contract 94533\SHT_101_S-08.dgn

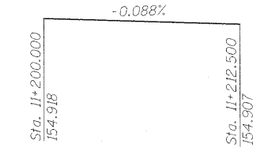
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	102
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

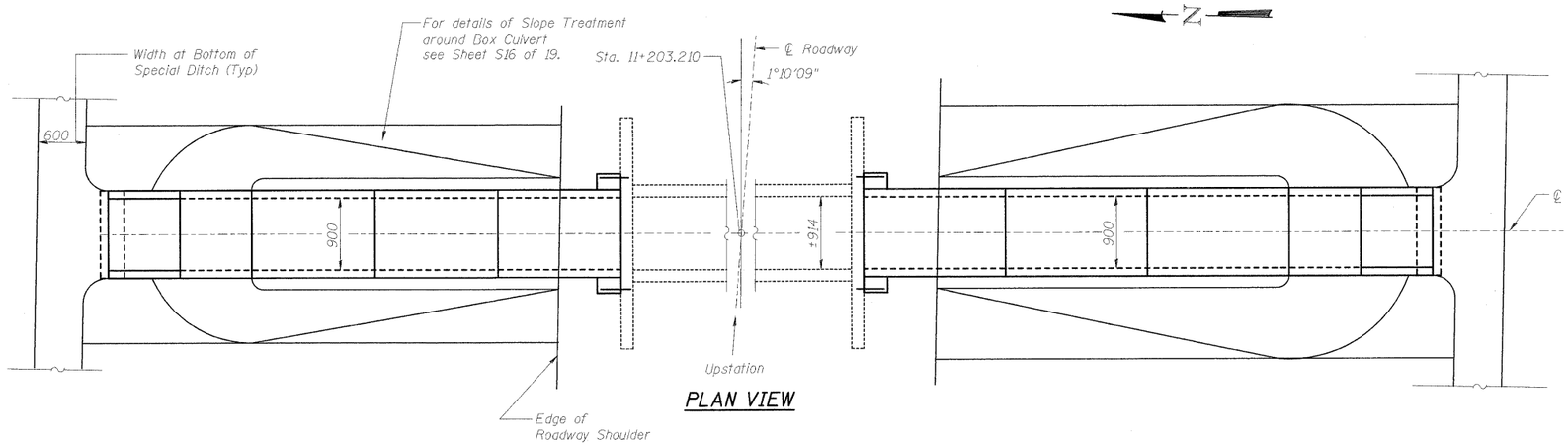
Existing Structure: The structure is a single barrel 914 mm x 457 mm box culvert at a skew of 1°10'09" right forward. The culvert has an overall length of 9.80 m. The contractor shall extend the culvert on each end for the dimensions shown.



LONGITUDINAL SECTION



PROFILE GRADE



PLAN VIEW

BILL OF MATERIAL - BOX CULVERT NO. 16

	Item	Unit	Total
	M5030350 Concrete Structures	cu. m.	0.5
	M5080205 Reinforcement Bars, Epoxy Coated	kg	100
*	Precast Concrete Box Culvert (900x450)	m	10.0
*	5401016 Box Culvert End Section, Culvert No. 16	Each	2
	M5403220 Expansion Bolts (M20x250)	Each	20
	M2810707 Stone Riprap, Class A4	sq. m.	See Plans

* Non-standard size.

SHEET S9 OF 15

REVISIONS	
NAME	DATE
LWJ	12-18-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSIONS

GENERAL PLAN & ELEVATION

BOX CULV. NO. 16, STA. 11+203.210

SCALE NONE DRAWN BY MLB

DATE DECEMBER 10, 2006 CHECKED BY MTH

LIN NO. 9803

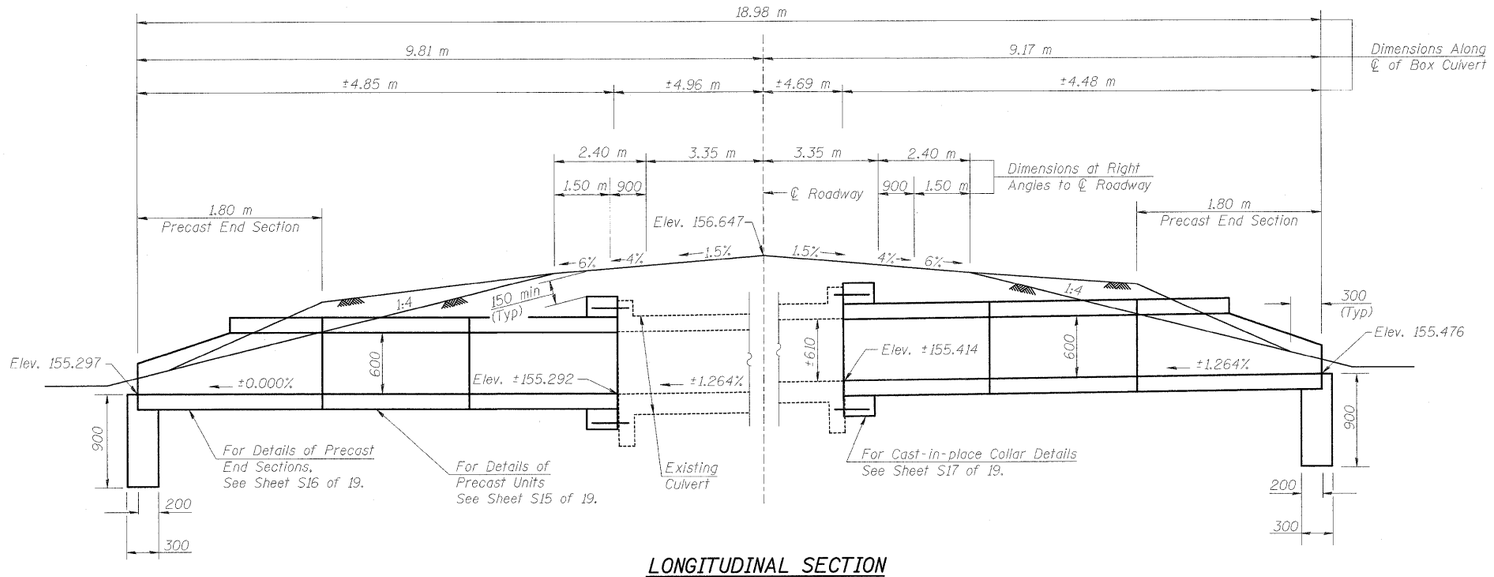
PLOT DATE = 12/22/2008
FILE NAME = H:\4428\Contract 94533\SHT_102_S-09.dgn

LIN ENGINEERING, LTD., 210 WEST CHESTNUT, CHATHAM, IL 62629 (217)-483-4168

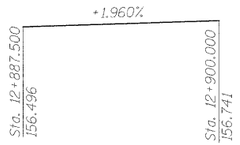
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	103
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

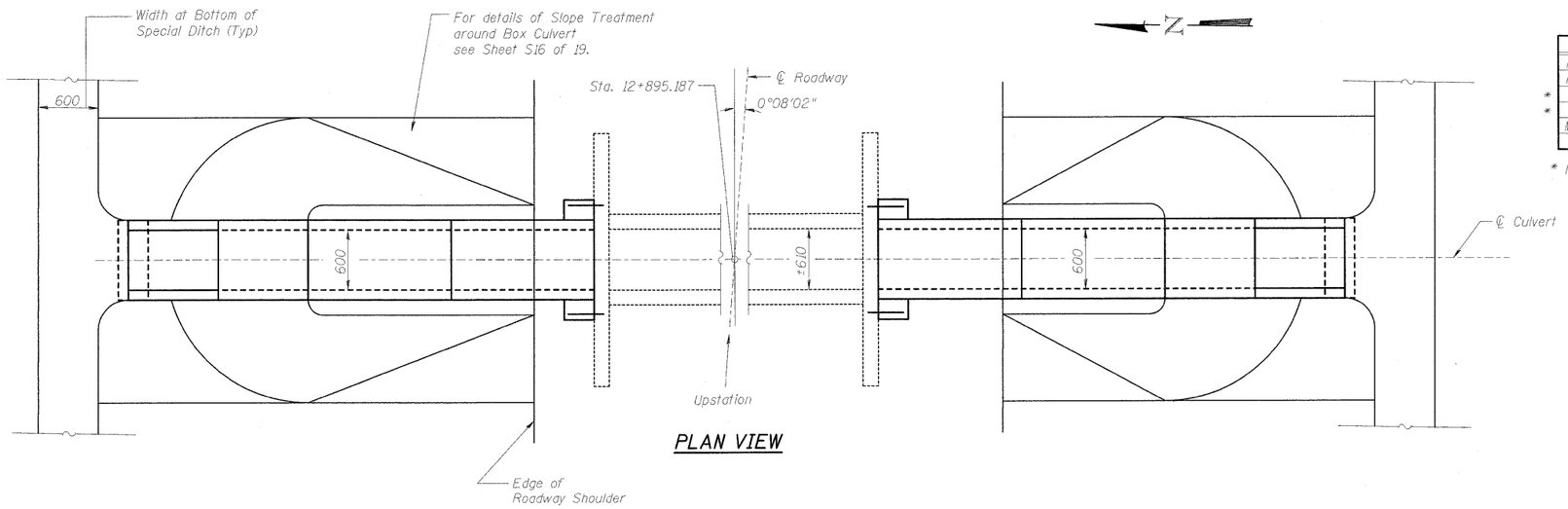
Existing Structure: The structure is a single barrel 610 mm x 610 mm box culvert at a skew of 0°8'02" right forward. The culvert has an overall length of 9.65 m. The contractor shall extend the culvert on each end for the dimensions shown.



LONGITUDINAL SECTION



PROFILE GRADE



PLAN VIEW

BILL OF MATERIAL - BOX CULVERT NO. 17

	Item	Unit	Total
M5030350	Concrete Structures	cu. m.	0.5
M5080205	Reinforcement Bars, Epoxy Coated	kg	100
* M5401005	Precast Concrete Box Culvert (600x600)	m	5.7
* 5401017	Box Culvert End Section, Culvert No. 17	Each	2
M5403220	Expansion Bolts (M20x250)	Each	24
M2810707	Stone Riprap, Class A4	sq. m.	See Plans

* Non-standard size.

SHEET S10 OF 15

REVISIONS	
NAME	DATE
LWJ	12-18-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSIONS

GENERAL PLAN & ELEVATION

BOX CULV. NO. 17, STA. 12+895.187

SCALE NONE DRAWN BY MLB

DATE DECEMBER 10, 2006 CHECKED BY MTH

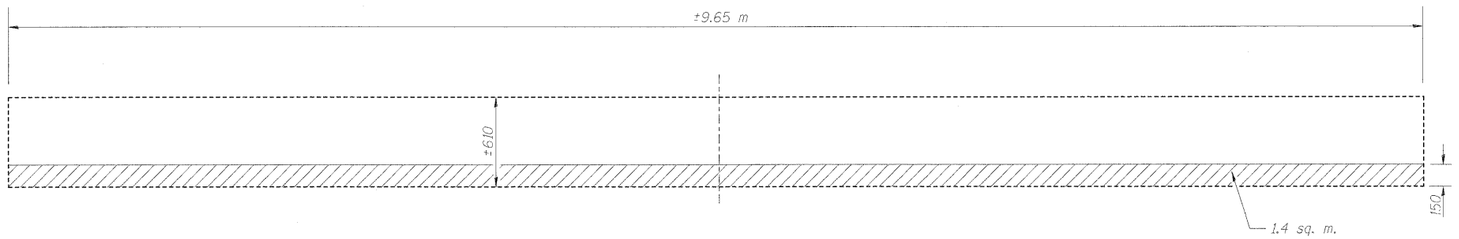
LIN NO. 9803

PLOT DATE = 12/22/2008
FILE NAME = H:\4428\Contract 94533\SHT_103_S-10.dgn

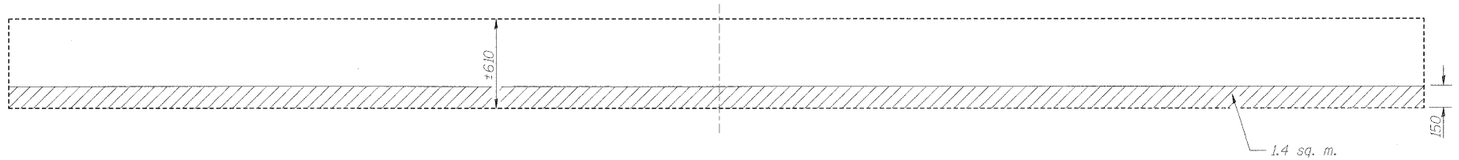
LIN ENGINEERING, LTD., 210 WEST CHESTNUT, CHATHAM, IL 62629 (217)-483-4168

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	104
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



WEST WALL
(Looking West)



EAST WALL
(Looking East)

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.

LEGEND

- Polymer Modified Portland Cement Mortar

sq. m. - Square Meter

BILL OF MATERIAL - BOX CULVERT NO. 17

	Item	Unit	Total
MX032196	Polymer Modified Portland Cement Mortar	sq. m.	3.4

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

SHEET S11 OF 15

REVISIONS	
NAME	DATE
LWJ	12-18-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
BOX CULVERT EXTENSIONS
CONCRETE REPAIR DETAILS
BOX CULV. NO. 17, STA. 12+895.187

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

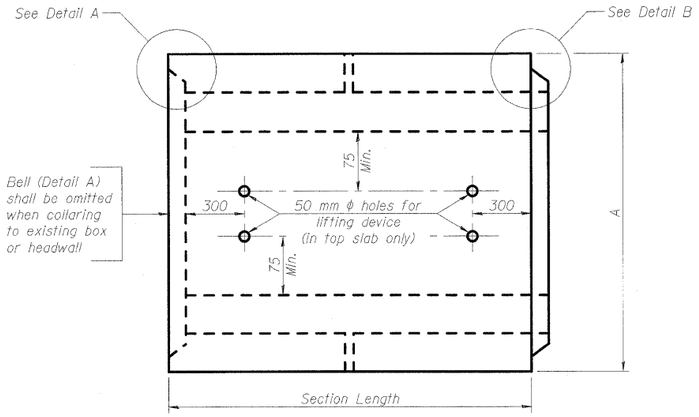
LIN NO. 9803

PLOT DATE = 12/22/2008
FILE NAME = H:\4420\Contract 94533\SHT_104_S-11.dgn

LIN ENGINEERING, LTD., 210 WEST CHESTNUT, CHATHAM, IL 62629 (217)-483-4168

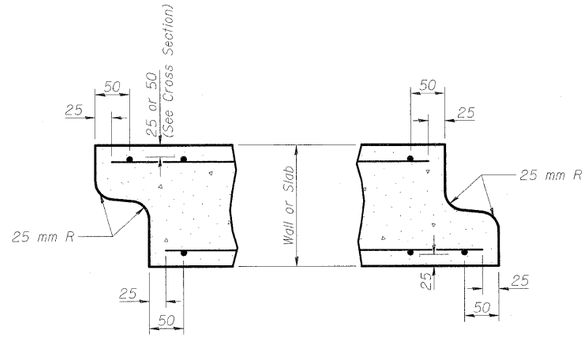
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	105
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PLAN

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

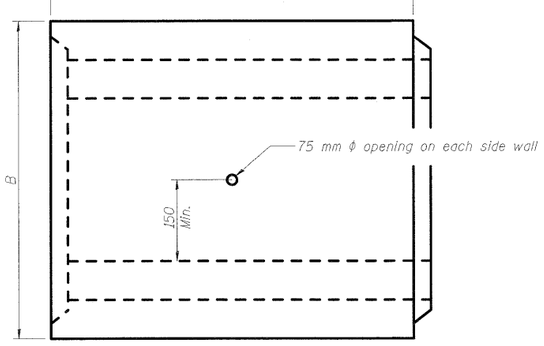


DETAIL A (Typ. Inlet End)

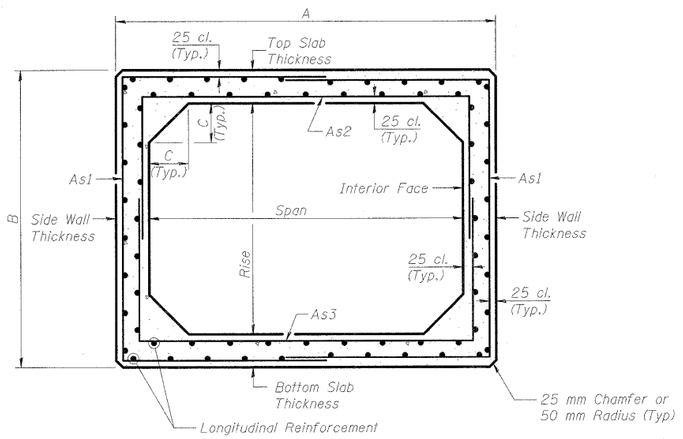
DETAIL B (Typ. Outlet End)

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

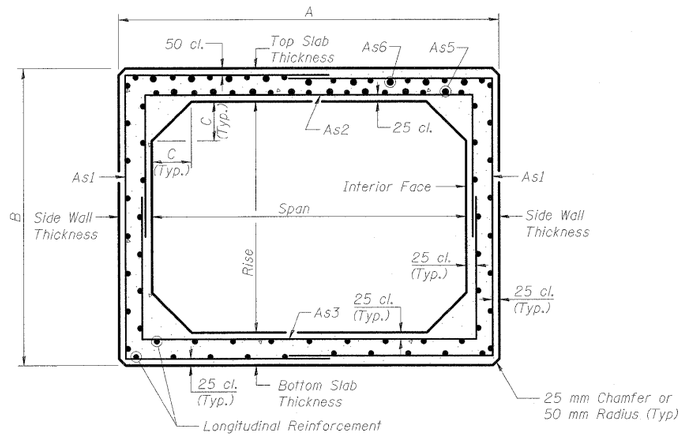
Box Culvert No.	Span	Rise	Fill Depth at Shoulder	Design Specifications
8	3000	1650	< 0.6m	M-273M
10	600	450	> 0.6m	M-259M
11	900	600	< 0.6m	M-273M
15	600	450	< 0.6m	M-273M
16	900	450	> 0.6m	M-259M
17	600	600	< 0.6m	M-273M



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	12-18-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSIONS
PRECAST SECTION DETAILS

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

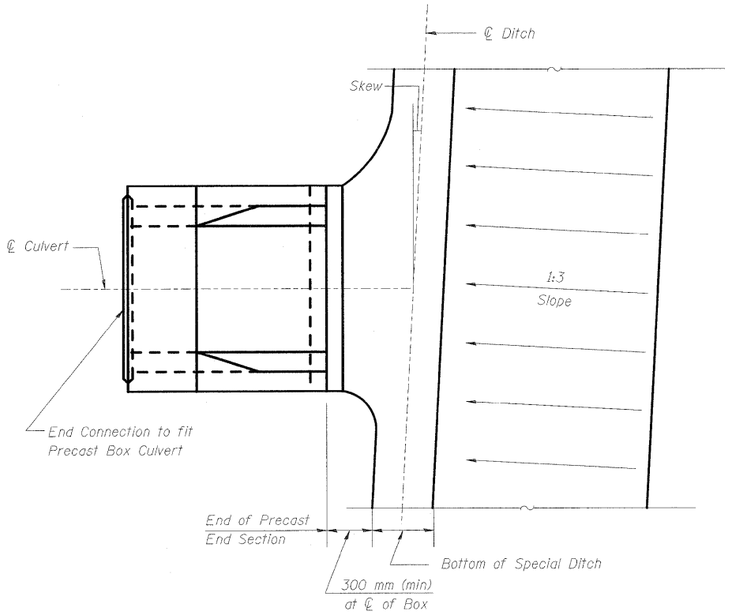
LIN NO. 9803

PLOT DATE = 12/22/2008
FILE NAME = H:\4428\Contract 94533\SHT.105.S-12.dgn

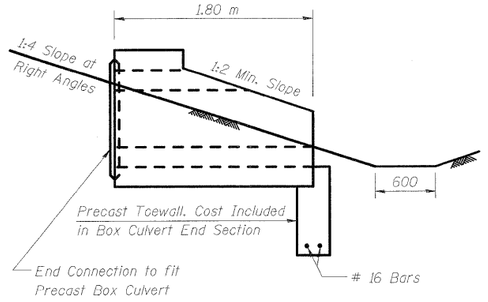
LIN ENGINEERING, LTD., 210 WEST CHESTNUT, CHATHAM, IL 62629 (217)-483-4168

CONTRACT NO. 94533

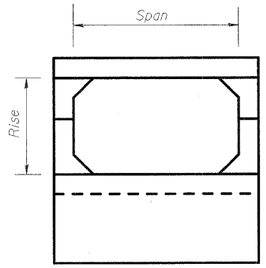
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	106
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



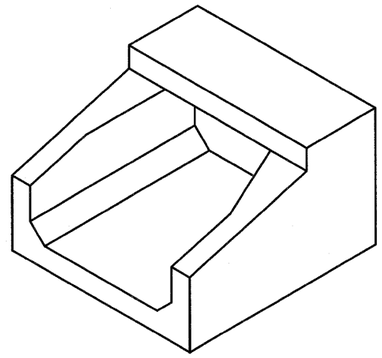
PLAN



SIDE VIEW



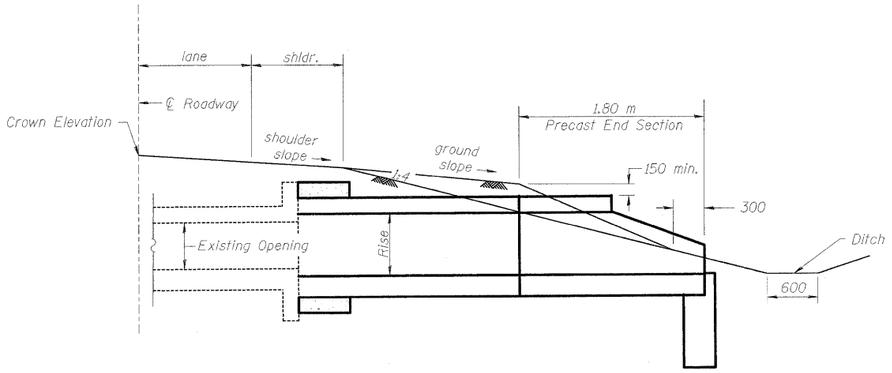
END VIEW



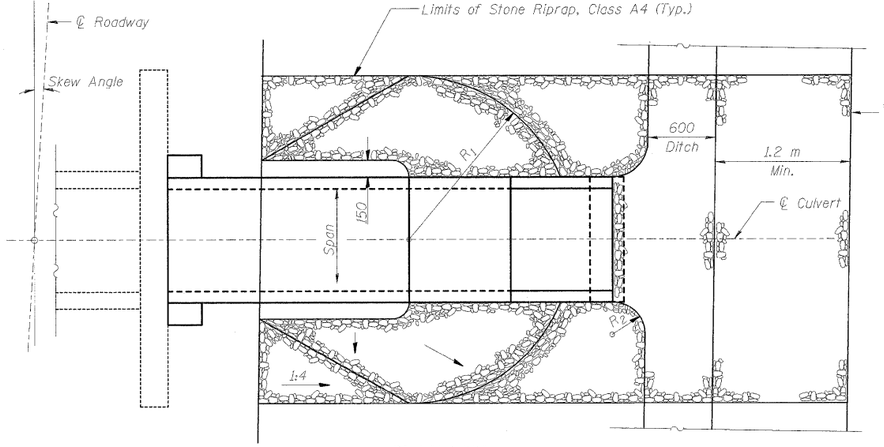
ISOMETRIC VIEW

PRECAST CONCRETE BOX CULVERT END SECTION DETAILS

Box Culvert No.	Span	Rise
8	3000	1650
10	600	450
11	900	600
15	600	450
16	900	450
17	600	600



LONGITUDINAL SECTION



*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.

PLAN VIEW

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.

SHEET S13 OF 15

REVISIONS	
NAME	DATE
LWJ	12-18-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSIONS
PRECAST END SECTION DETAILS

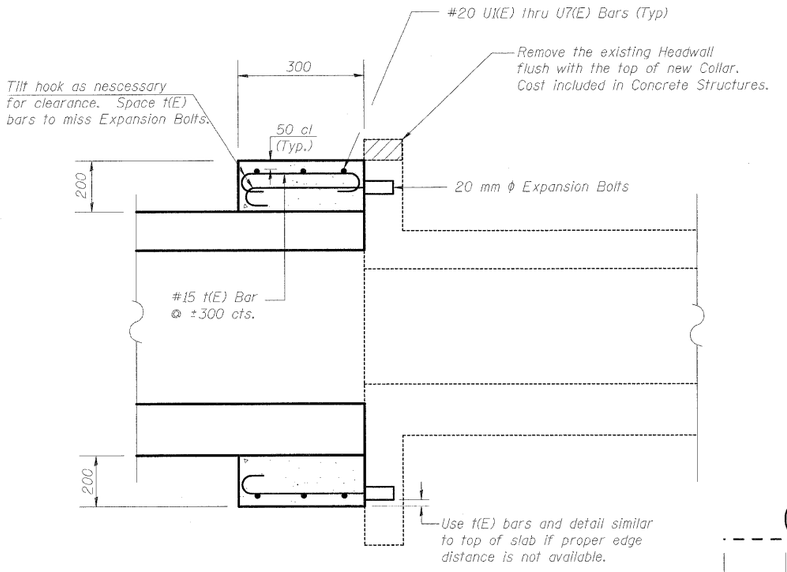
SCALE NONE DRAWN BY MLB
DATE DECEMBER 10, 2006 CHECKED BY MTH

LIN NO. 9803

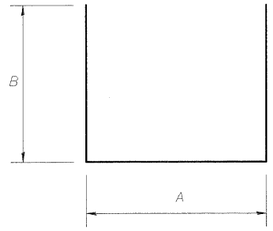
PLOT DATE = 12/22/2008
FILE NAME = H:\4420\Contract 94533\SHT_106_S-13.dgn

CONTRACT NO. 94533

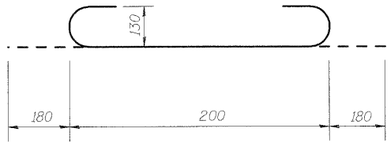
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	107
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



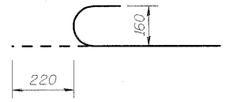
LONGITUDINAL SECTION



U1(E) THRU U7(E) BARS



t(E) BAR



EXPANSION BOLT HOOK

DIMENSIONS & BAR LIST

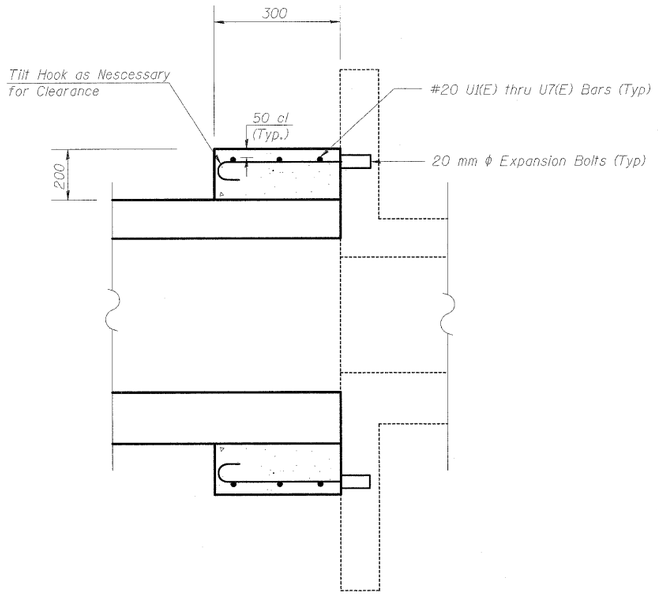
Box Culvert No.	S* (mm)	R* (mm)	Expansion Bolts				U1(E) thru U7(E) Bars				t(E) Bars	
			Top Slab	Bottom Slab	Each Wall	Total	Designation	A*(m)	B*(m)	No. Req'd	Top Slab	v bars
8	3900	2550	8	8	5	52	U3(E)	3.80	1.62	12	14	
10	1200	1050	3	3	2	20	U4(E)	1.10	0.87	12	5	
11	1500	1325**	3	3	3	21	U5(E)	1.40	1.01	9	6	6
15	1200	1175	3	3	3	24	U6(E)	1.10	0.94	12	5	
16	1500	1050	3	3	2	20	U7(E)	1.40	0.87	12	6	
17	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.

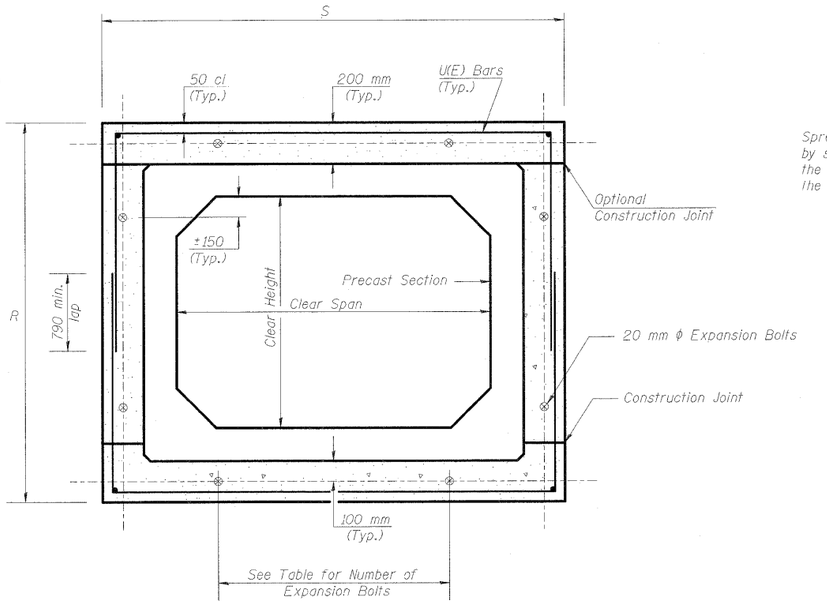
** Modify this dimension to accommodate the steel plate. (See Sheet S18 of 19)

BAR DETAILS

Bar	No.	Size	Length (m)	Shape
t(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	

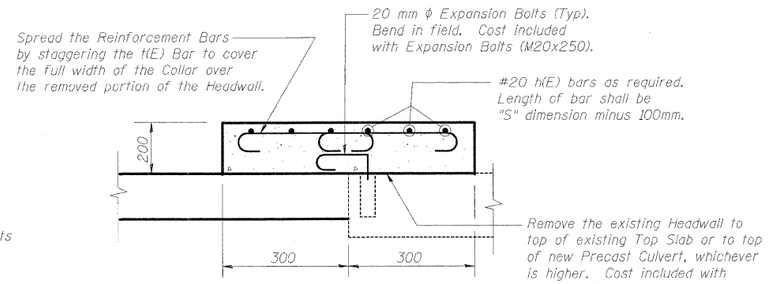


PLAN



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	12-18-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSIONS
CAST-IN-PLACE COLLAR DETAILS

SCALE NONE DRAWN BY MLB

DATE DECEMBER 10, 2006 CHECKED BY MTH

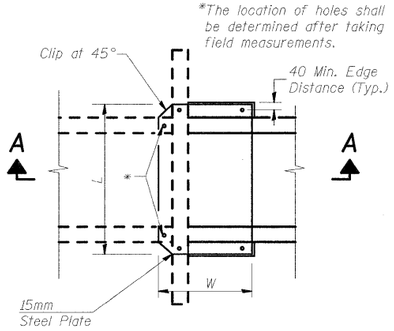
LIN NO. 9803

PLOT DATE = 12/22/2008
FILE NAME = H:\4420\Contract 94533\SHT_107_S-14.dgn

LIN ENGINEERING, LTD., 210 WEST CHESTNUT, CHATHAM, IL 62629 (217)-483-4168

CONTRACT NO. 94533

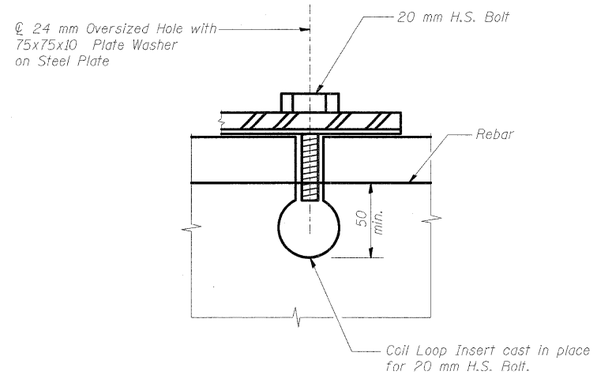
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	108
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



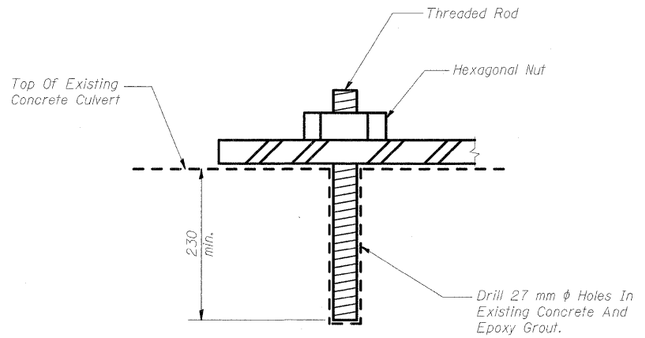
PLAN
DETAIL OF STEEL PLATE ATTACHMENT

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

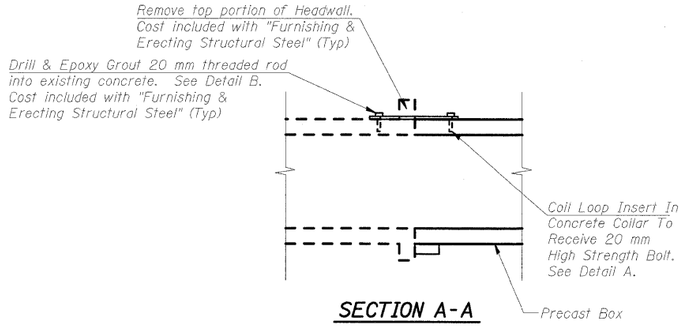
**Contractor to verify dimensions based on actual culvert size provided by the fabricator.



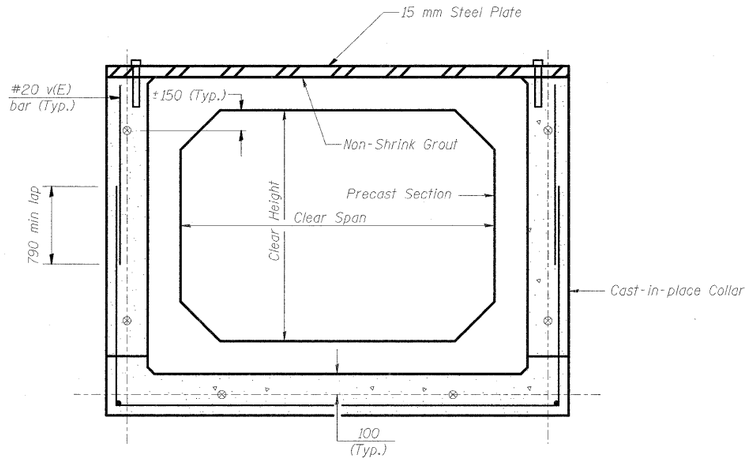
DETAIL A



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.

SHEET S15 OF 15

REVISIONS	
NAME	DATE
LWJ	12-18-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSIONS
MISCELLANEOUS DETAILS

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

LIN NO. 9803

PLOT DATE = 12/22/2008
FILE NAME = H:\4428\Contract 94533\SHT_108_S-15.dgn

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	109
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

5+088.7
P.E. RT.

5+075

5+050

5+025

℄ FAP 781 (IL. RTE. 33)

EXIST. R.O.W.

11.938 M

3 M

6 %

4 %

11.80 %

146.932
146.890

146.612
146.570

146.022
145.980

38 mm BUTT JOINT
MATCH EXISTING

145.293
145.293

F=0.37

F=0.39

F=0.10

C=0.10

C=0.05

C=0.71

13.38

13.38

13.59

38 MM HMA SURFACE INLAY
STA. 44+20.234 TO STA. 5+025

PLOT DATE = 12/29/2006
FILE NAME = H:\1428\Contract 94533\SHT_109_xs_133_east_sht1.dgn

HMG JOB NO. 1428

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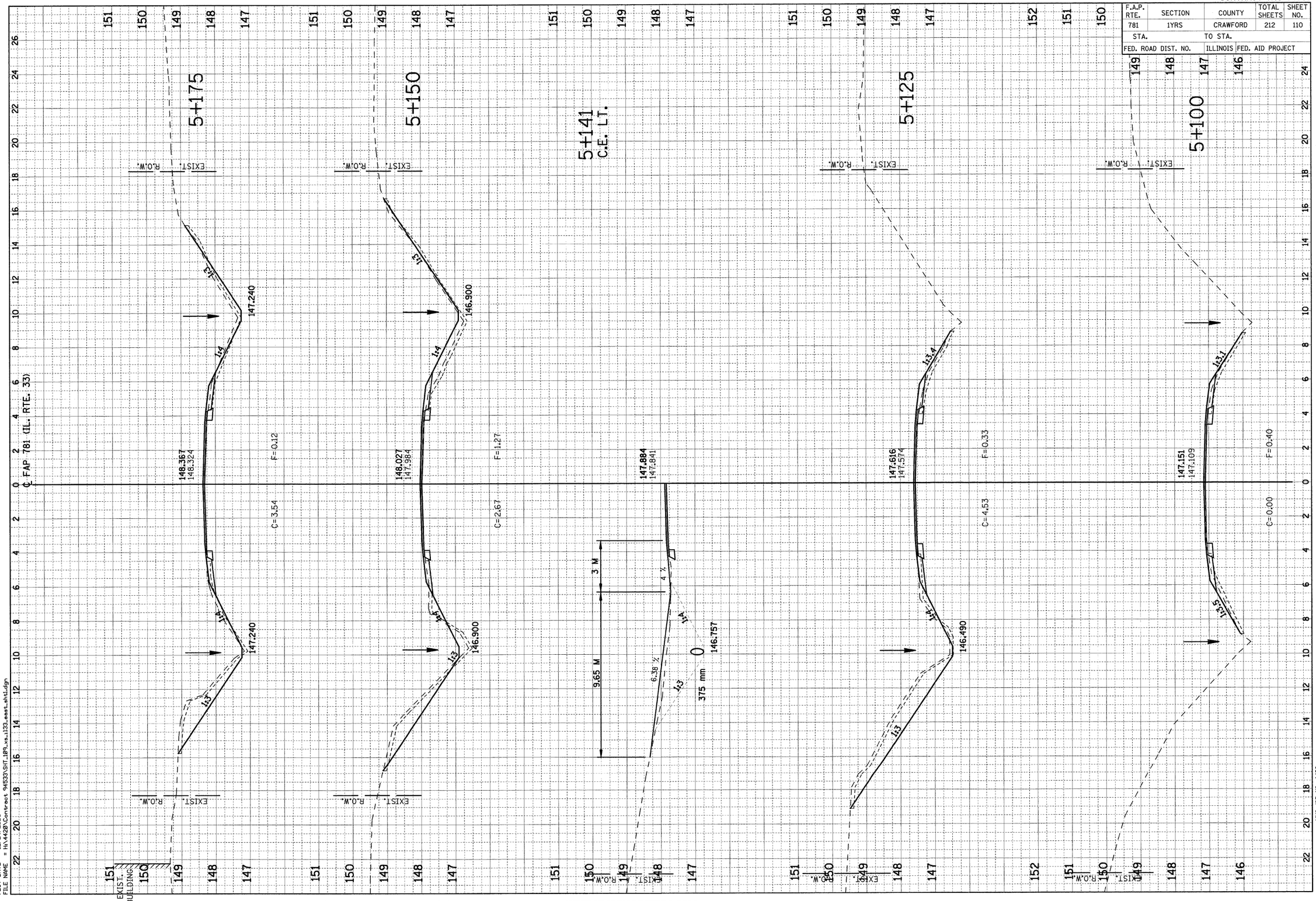
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	110
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_105_xs_133_east_sht1.dgn



HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_109_xs_133_east_sht1.dgn

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℄ FAP 781 (IL. RTE. 33)

5+275

SPECIAL DITCH LEFT
STA. 5+260 TO STA. 5+290
AT -0.77%

SPECIAL DITCH RIGHT
STA. 5+260 TO STA. 5+290
AT -1.12%

149.015
148.973
147.885
147.832
C=0.35 F=0.47

5+250

148.959
148.917
147.914
147.914
C=0.07 F=0.72

5+225

SPECIAL DITCH LEFT
STA. 5+225 TO STA. 5+260
AT +0.85%

SPECIAL DITCH RIGHT
STA. 5+225 TO STA. 5+260
AT +0.85%

148.824
148.782
147.698
147.698
C=0.40 F=0.63

5+200

148.630
148.588
147.504
147.504
C=2.01 F=0.11

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

5+194.097
TR 300 E RT.

148.581
148.538

5+193.7
P.E. LT.

11.938 M
3 M
5.87 %
4 %
375 mm
148.577
148.535
147.447

R.O.W.
EXIST.
1:3
1:4

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	111
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_109_xs_1133_east_shtl.dgn

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℄ FAP 781 (IL. RTE. 33)

5+425

149.587
149.545

148.590 — 148.590

C=7.49 F=0.28

5+400

149.507
149.465

148.390 — 148.390

C=8.21 F=0.56

5+375

SPECIAL DITCH LEFT
STA. 5+350 TO STA. 5+432.5
AT +0.80%

SPECIAL DITCH RIGHT
STA. 5+350 TO STA. 5+432.5
AT +0.80%

149.366
149.324

148.190 — 148.190

C=8.27 F=0.57

5+350

149.205
149.163

147.990 — 147.990

C=7.91 F=0.28

5+345.5
F.E. LT. & P.E. RT.

11.938 M — 3 M — 3 M — 11.938 M

149.174
149.132

1.09 % — 6 % — 4 % — 1.23 %

450 mm — 147.969

375 mm — 147.959

5+325

149.095
149.053

147.872 — 147.818

C=5.62 F=1.01

5+300

SPECIAL DITCH LEFT
STA. 5+300 TO STA. 5+350
AT +0.47%

SPECIAL DITCH RIGHT
STA. 5+300 TO STA. 5+350
AT +0.69%

149.045
149.003

147.755 — 147.645

C=1.27 F=1.37

R.O.W. EXIST.

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	112
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	113
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = 12/29/2008
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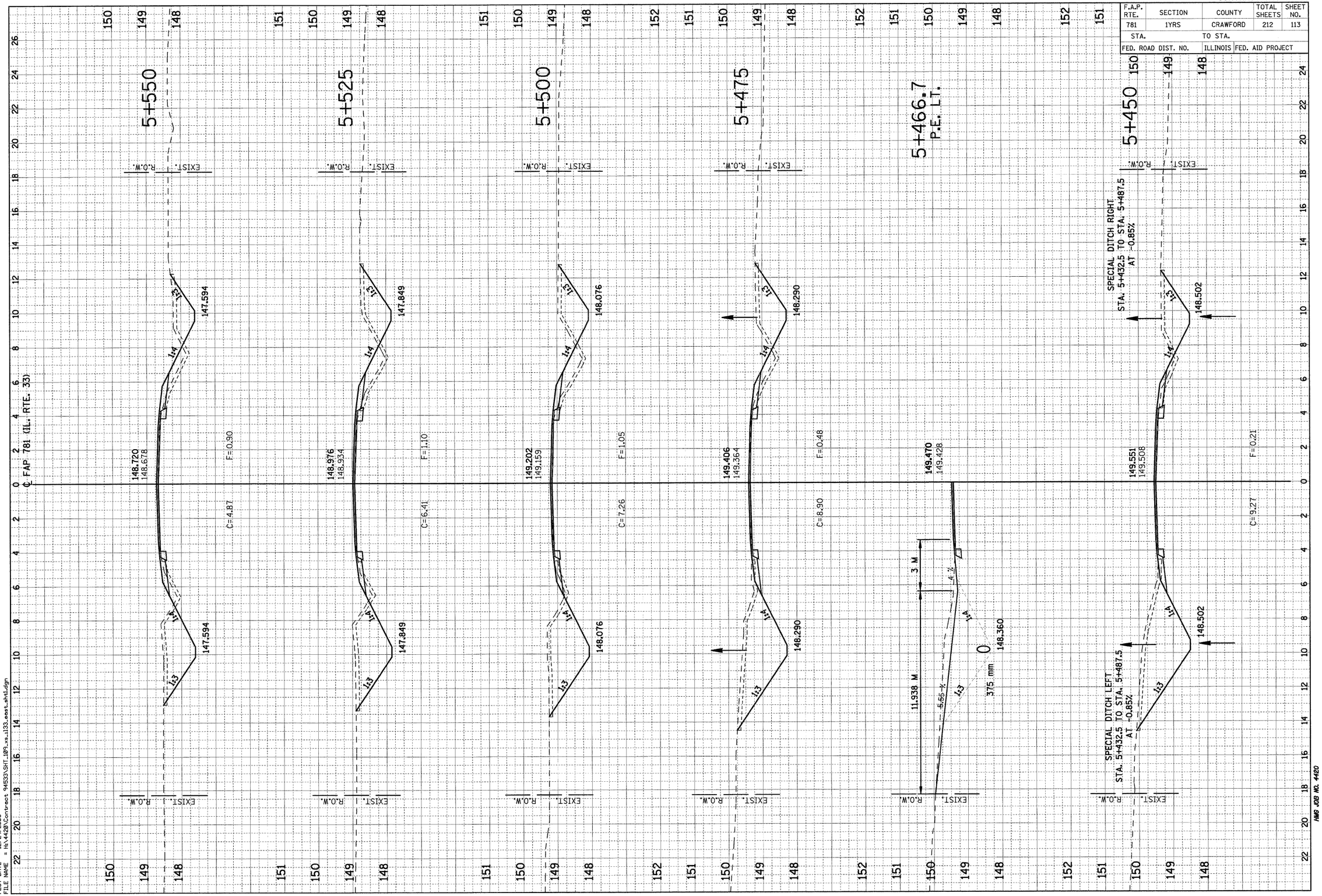


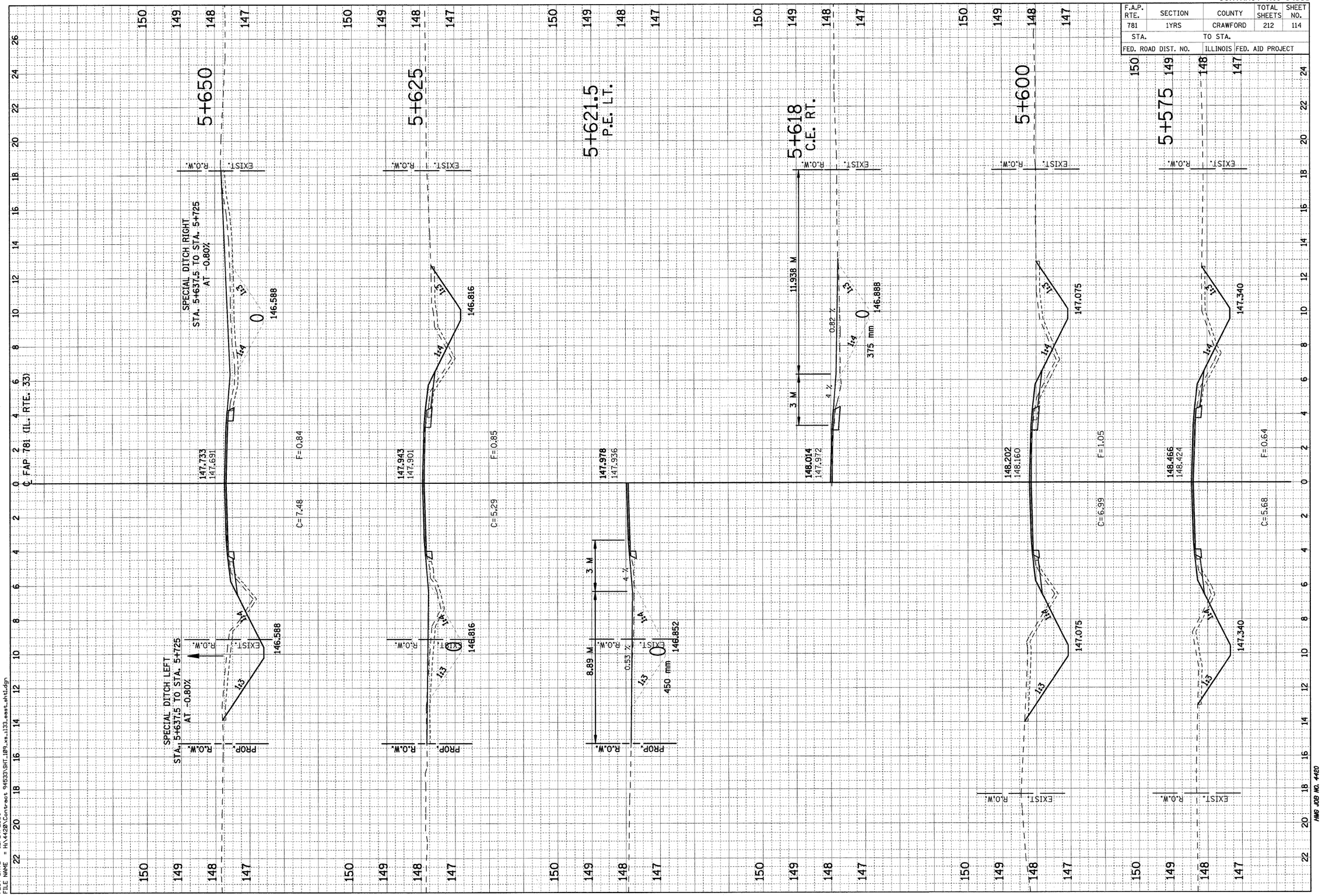
HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	114
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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



PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_109_xs133_east_sht1.dgn

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	115
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT.109.xs133_east_sht.dgn

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HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_109_xs_133_east_sht1.dgn

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

℄ FAP 781 (IL. RTE. 33)

5+875

SPECIAL DITCH LEFT
STA. 5+862.5 TO STA. 6+000
AT +0.64%

SPECIAL DITCH RIGHT
STA. 5+862.5 TO STA. 6+000
AT +0.51%

147.628
147.586

146.474

146.458

C=9.94 F=0.57

5+850

147.512
147.470

146.324

146.324

C=10.76 F=1.06

5+825

147.447
147.405

146.184

146.184

C=10.11 F=1.20

5+800

SPECIAL DITCH LEFT
STA. 5+775 TO STA. 5+862.5
AT +0.56%

SPECIAL DITCH RIGHT
STA. 5+775 TO STA. 5+862.5
AT +0.56%

147.449
147.407

146.044

146.044

C=6.71 F=1.81

5+775

147.461
147.419

145.904

145.904

SPECIAL DITCH LEFT
STA. 5+755 TO STA. 5+775
AT +2.80%

SPECIAL DITCH RIGHT
STA. 5+755 TO STA. 5+775
AT +4.00%

C=3.75 F=2.51

8.89 M
3 M
6 %
7.29 %
675 mm
145.812

147.463
147.421

5+771.7
F.E. LT.

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	116
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
STA.	TO STA.			

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	117
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_105_xs133_east_sh1.dgn

HMG JOB NO. 4420

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CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	118
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

6+125

6+100

6+084.5
P.I.E. RT.

6+075

6+050

6+025

℄ FAP 781 (IL. RTE. 33)

SPECIAL DITCH RIGHT
STA. 6+095 TO STA. 6+175
AT +0.66%

SPECIAL DITCH RIGHT
STA. 6+000 TO STA. 6+095
AT +0.44%

SPECIAL DITCH LEFT
STA. 6+000 TO STA. 6+175
AT +0.44%

SPECIAL DITCH LEFT
STA. 6+000 TO STA. 6+095
AT +0.44%

TEMP. EASEMENT

525 mm

8.89 M

3 M

3.28 %

5.20 %

2.81 %

PROP.
R.O.W.
EXIST.

1:3
1:4

147.713
147.547
147.468
147.426
147.316
147.206
147.824
147.714
147.604
147.494
147.384

148.913
148.871
148.822
148.780
148.775
148.733
148.734
148.692
148.628
148.586
148.472
148.430

C=5.29
C=6.56
C=7.62
C=7.05
C=5.28

F=1.68
F=1.97
F=2.32
F=2.09
F=2.02

HMG JOB NO. 4420

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_109_xs_1133_east_sht1.dgn

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	119
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\1420\Contracts 94533\SHT_105_xs_1133_east_sht1.dgn

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	120
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\1428\Contract 94533\SHT_109_xs_il33_east_sh1.dgn

℄ FAP 781 (IL. RTE. 33)

6+325 — TEMP. | EASEMENT | PROP. | R.O.W.
149.348 | 149.306 | 1.50 %
EXIST. | R.O.W.
1:4 | 1:3
148.644
℄=0.65 F=0.59

6+309 C.E. RT. — TEMP. | EASEMENT | PROP. | R.O.W.
8.89 M | 0.45 % | 4 % | 3 M
149.243 | 149.301
EXIST. | R.O.W.
1:4 | 1:3
148.544
℄=1.24 F=0.43

6+300 — TEMP. | EASEMENT | PROP. | R.O.W.
149.340 | 149.298
EXIST. | R.O.W.
1:4 | 1:3
148.444
℄=3.91 F=0.18

6+275 — PROP. | R.O.W.
SPECIAL DITCH RIGHT
STA. 6+175 TO STA. 6+320
AT +0.40%
149.294 | 149.252
EXIST. | R.O.W.
1:4 | 1:3
148.344
℄=3.97 F=0.24

6+250 — PROP. | R.O.W.
149.253 | 149.211
EXIST. | R.O.W.
1:4 | 1:3
148.244
℄=4.68 F=0.15

6+225 — PROP. | R.O.W.
149.197 | 149.155
EXIST. | R.O.W.
1:4 | 1:3

SPECIAL DITCH LEFT
STA. 6+175 TO STA. 6+340
AT +0.40%

HMG JOB NO. 4420

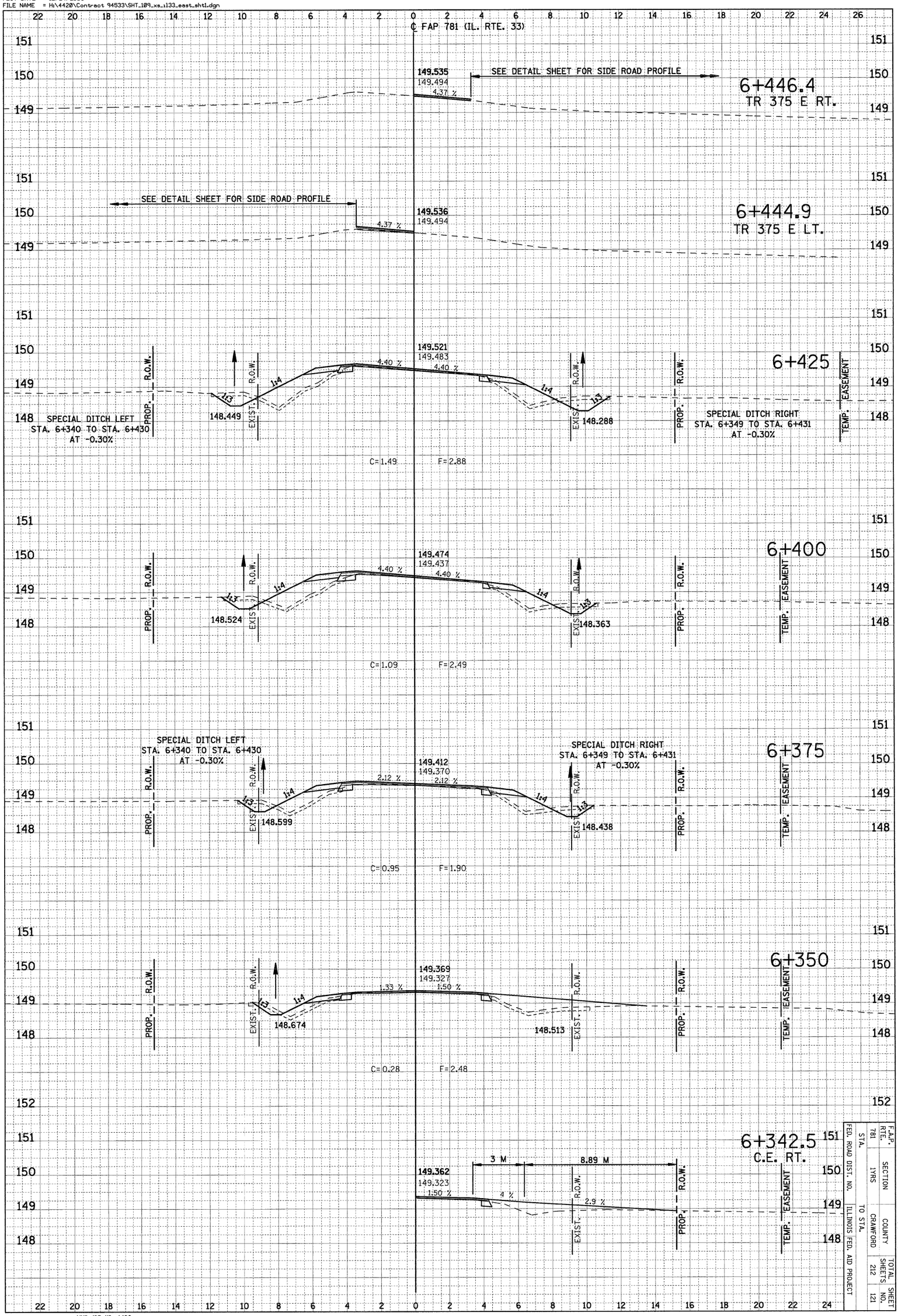
HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_109_xs_133_east_shtl.dgn

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM



HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	121
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
STA.	TO STA.			

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	122
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_10%_xs_1133_east_sht1.dgn

C. FAP 781 (IL. RTE. 33)

6+524.5 C.E. RT.

6+524 P.E. LT.

6+500 C.E. LT.

6+483.5 C.E. RT.

6+475

6+450

TEMP. EASEMENT PROP. R.O.W. EXIST. R.O.W.

8.89 M
3 M
4.40 %
1.40 %
3.60 %
2.40 %
2.73 %
2.55 %
1:4
1:3
375 mm C.M.P.
149.621
149.584
149.588
149.546
149.620
149.583
149.574
149.532
149.564
149.522
149.536
149.494
148.675
148.576
148.525
148.825
148.700
F=0.73
F=1.51
C=1.68
C=2.69

SPECIAL DITCH RIGHT
STA. 6+470 TO STA. 6+512.5
AT +0.60%

SPECIAL DITCH LEFT
STA. 6+460 TO STA. 6+515
AT +0.50%

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

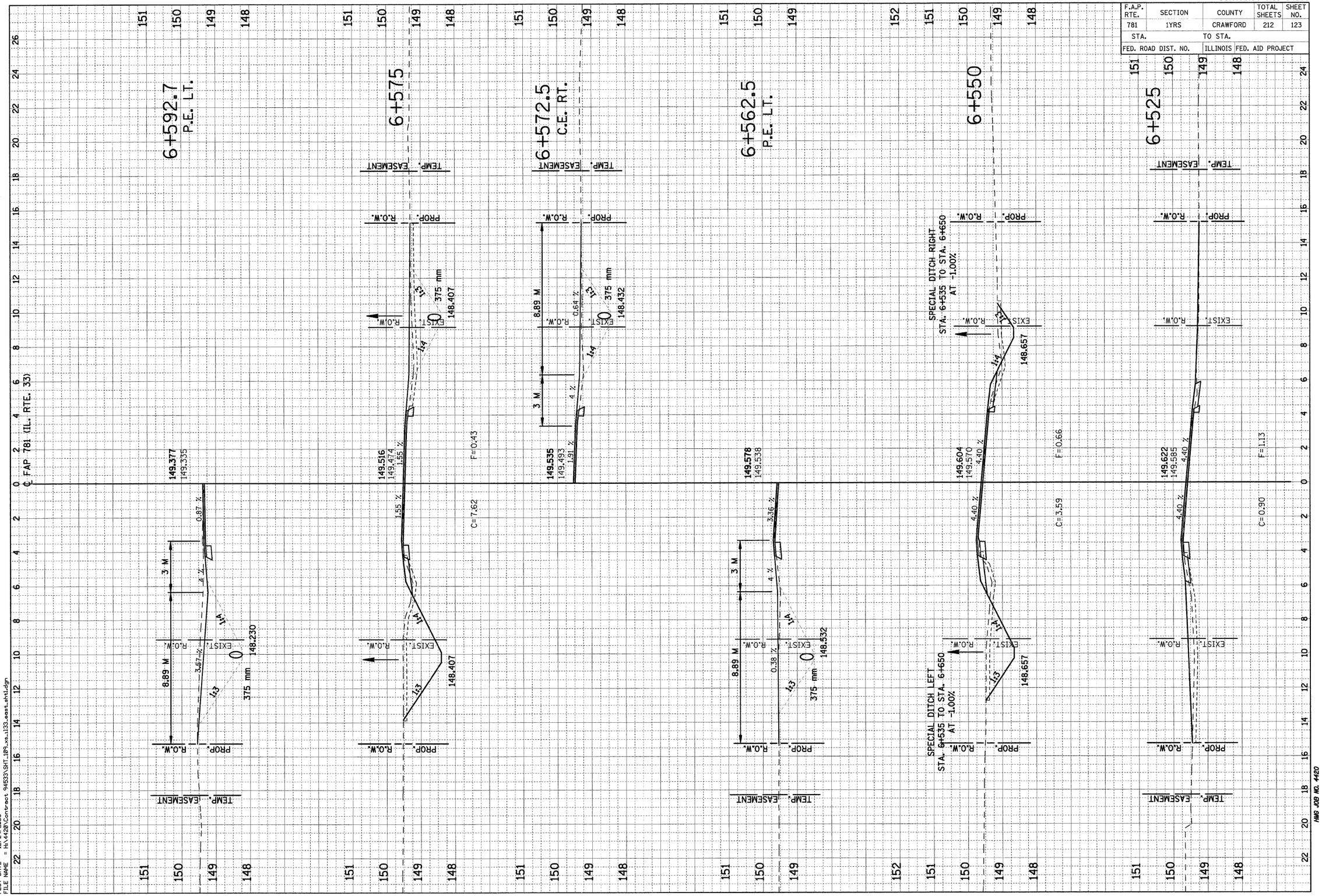
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	123
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\1420\Contract 94533\SHT_109_xs_1133_east_sht1.dgn



HMG JOB NO. 1420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	124
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_109_xs_1133_east_sht1.dgn

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HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	125
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_109_xs_1133_east_sht1.dgn

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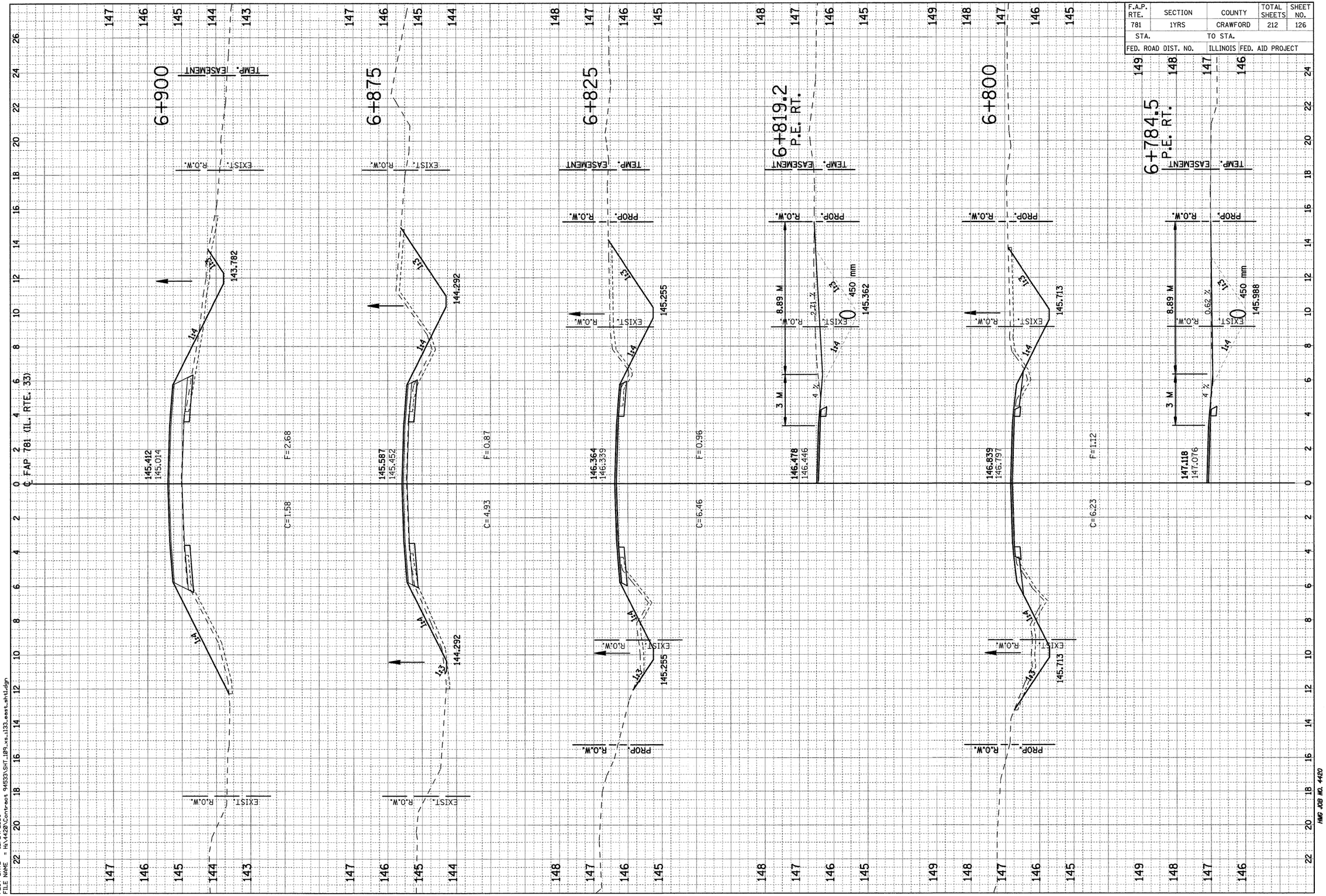
HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	126
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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



PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_105_xs_1133_east_sht1.dgn

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_109_xs_1133_east_sht1.dgn

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℄ FAP 781 (IL. RTE. 33)

7+000

SPECIAL DITCH LEFT
STA. 6+980 TO STA. 7+080
AT +1.40%

SPECIAL DITCH RIGHT
STA. 6+980 TO STA. 7+100
AT +1.40%

145.394
144.818
4.80 %
4.80 %
1:4
1:4
1:3
143.600
143.600
R.O.W.
PROPT.
EXIST.
R.O.W.
C=0.14 F=4.66

6+975

SPECIAL DITCH LEFT
STA. 6+960 TO STA. 6+980
AT +3.60%

SPECIAL DITCH RIGHT
STA. 6+960 TO STA. 6+980
AT +3.60%

145.298
144.644
1.52 %
1.53 %
1:4
1:4
1:3
143.140
143.140
R.O.W.
EXIST.
R.O.W.
C=0.50 F=4.15

6+950

145.263
144.539
1.50 %
1.50 %
1:4
1:4
R.O.W.
EXIST.
R.O.W.
C=0.48 F=1.21

6+925

SPECIAL DITCH RIGHT
STA. 6+925 TO STA. 6+945
AT -3.80%

145.313
144.775
1:4
1:4
1:3
143.272
R.O.W.
EXIST.
R.O.W.
C=0.79 F=3.77

6+907 F.E. RT.

3 M
16.65 M
145.384
144.946
4 %
1:4
11.28 %
1:3
600 mm
143.639
R.O.W.
EXIST.

CONTRACT NO. 94533

FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		781	1YRS	CRAWFORD	212	127
STA.	TO STA.					
TEMP. EASEMENT						

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	128
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4428\Contract 94533\SHT_105_xs_133_east_sht.dgn

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HMG JOB NO. 4428

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	129
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\1420\Contract 94533\SHT_109_xs_133_east_sht1.dgn

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HMG JOB NO. 1420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	130
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

℄ FAP 781 (IL. RTE. 33)

7+250

SPECIAL DITCH RIGHT
STA. 7+225 TO STA. 7+345
AT +0.88%

146.315
146.273

145.368

SPECIAL DITCH LEFT
STA. 7+244 TO STA. 7+421.5
AT +0.86%

144.237

C=3.16 F=1.36

7+225

146.199
146.157

145.148

C=4.41 F=2.07

7+200

SPECIAL DITCH RIGHT
STA. 7+195 TO STA. 7+225
AT +2.00%

146.083
146.041

144.648

C=4.22 F=3.51

7+177
F.E. RT.

145.981
145.939

3 M
11.938 M
6 %
1.98 %
0
375 mm
144.515

R.O.W.
PROP.
EXIST.
1:4
1:3
VARIES

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\1428\Contract 94533\SHT_130_xs_1133_east_sh12.dgn

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	131
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

℄ FAP 781 (IL. RTE. 33)

7+300

146.555
146.513

PROP. R.O.W.
EXIST. R.O.W.
1:3
1:4
144.666
145.808

C=4.94 F=0.58

7+291.8
C.E. LT.

27.178 M
3 M
3.33 %
4 %
146.522
146.480
900 MM
144.596

7+275

146.448
146.406
144.452
145.588

C=6.67 F=0.10

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\1428\Contract 94533\Sht_130_xs_1133_east_sht2.dgn

HMG JOB NO. 4420

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	132
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

℄ FAP 781 (IL. RTE. 33)

7+355
P.E. RT.

3 M
8.89 M
146.823
146.781
0.80 %
4 %
5.03 %
R.O.W.
EXIST.
PROP.
TEMP. EASEMENT

7+350

146.806
146.764
1.50 %
0.12 %

SPECIAL DITCH LEFT
STA. 7+244 TO STA. 7+421.5
AT +0.86%

145.096
1:3
1:4

C=6.68 F=0.31

7+328.6
C.E. LT.

27.178 M
3 M
146.657
146.615
0.32 %
4 %
1.50 %
900 MM
144.912

7+325

146.639
146.597
1.50 %
1.50 %
146.028

VARIES
144.881

C=5.41 F=0.40

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_138_xs_1133_east_sht2.dgn

HMG JOB NO. 4420

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CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	133
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

℄ FAP 781 (IL. RTE. 33)

7+425

SPECIAL DITCH LEFT
STA. 7+425 TO STA. 7+450
AT +1.16%

SPECIAL DITCH RIGHT
STA. 7+425 TO STA. 7+650
AT +0.33%

147.143
147.102
5.00 %
5.00 %
146.158
145.810
C= 3.10
F= 3.54

7+400

147.049
147.007
5.00 %
5.00 %
VARIES
145.604
146.269
C= 4.83
F= 2.39

7+392.9
P.E. LT.

8.536 M
13.5 M
3 M
147.021
146.980
5.00 %
2.95 %
0.50 %
4 %
5.00 %
900 MM
145.540

7+375

SPECIAL DITCH RIGHT
STA. 7+362.5 TO STA. 7+418
AT -0.60%

146.926
146.884
3.59 %
3.59 %
146.419
C= 1.54
F= 0.67

R.O.W. PROP. EXIST. 1:3 1:4 1:2.5

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_130_xs_1133_east_sht2.dgn

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	134
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

℄ FAP 781 (IL. RTE. 33)

7+478.0
F.E. RT.

147.304
147.262
1.67 %
4 %
2.00 %
0.15 %
3.6 M
2.7 M
5.39 M
R.O.W.
TEMP. EASEMENT
PROP.
EXIST.
1:2.5
1:3
750 mm
146.333

7+475

147.297
147.255
2.09 %
2.09 %
1:3
1:4
146.200

C=4.40 F=1.08

7+471.6
P.E. LT.

147.289
147.247
1.06 %
2.00 %
4 %
2.56 %
5.39 M
3.5 M
3 M
900 MM
EQUIV. RND. SIZE
146.186

SPECIAL DITCH LEFT
STA. 7+450 TO STA. 7+650
AT +0.40%

7+450

147.218
147.177
5.00 %
5.00 %
146.100
146.240

C=1.77 F=2.50

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_130_xs_133_east_sht2.dgn

HMG JOB NO. 4420

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CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	135
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

7+600

7+575

SPECIAL DITCH RIGHT
STA. 7+425 TO STA. 7+650
AT +0.33%

7+550

7+537.0
C.E. RT.

7+525

7+509
P.E. LT.

7+500

℄ FAP 781 (IL. RTE. 33)

R.O.W.
PROP.
EXIST.
1:3
1:4
146.735
146.653
146.570
146.488
146.405
147.752
147.710
147.685
147.643
147.602
147.560
147.545
147.503
147.477
147.435
147.398
147.356
147.379
147.337
C=5.39
C=6.58
C=6.71
C=6.78
C=4.43
F=2.13
F=2.08
F=2.20
F=2.22
F=2.33
1.50 %
1.33 %
0.35 %
4 %
5.89 M
3 M
750 mm
146.527

SPECIAL DITCH LEFT
STA. 7+450 TO STA. 7+650
AT +0.40%

146.700
146.600
146.500
146.400
146.300
8.89 M
900 MM
EQUIV. RND. SIZE
146.336
TEMP. EASEMENT

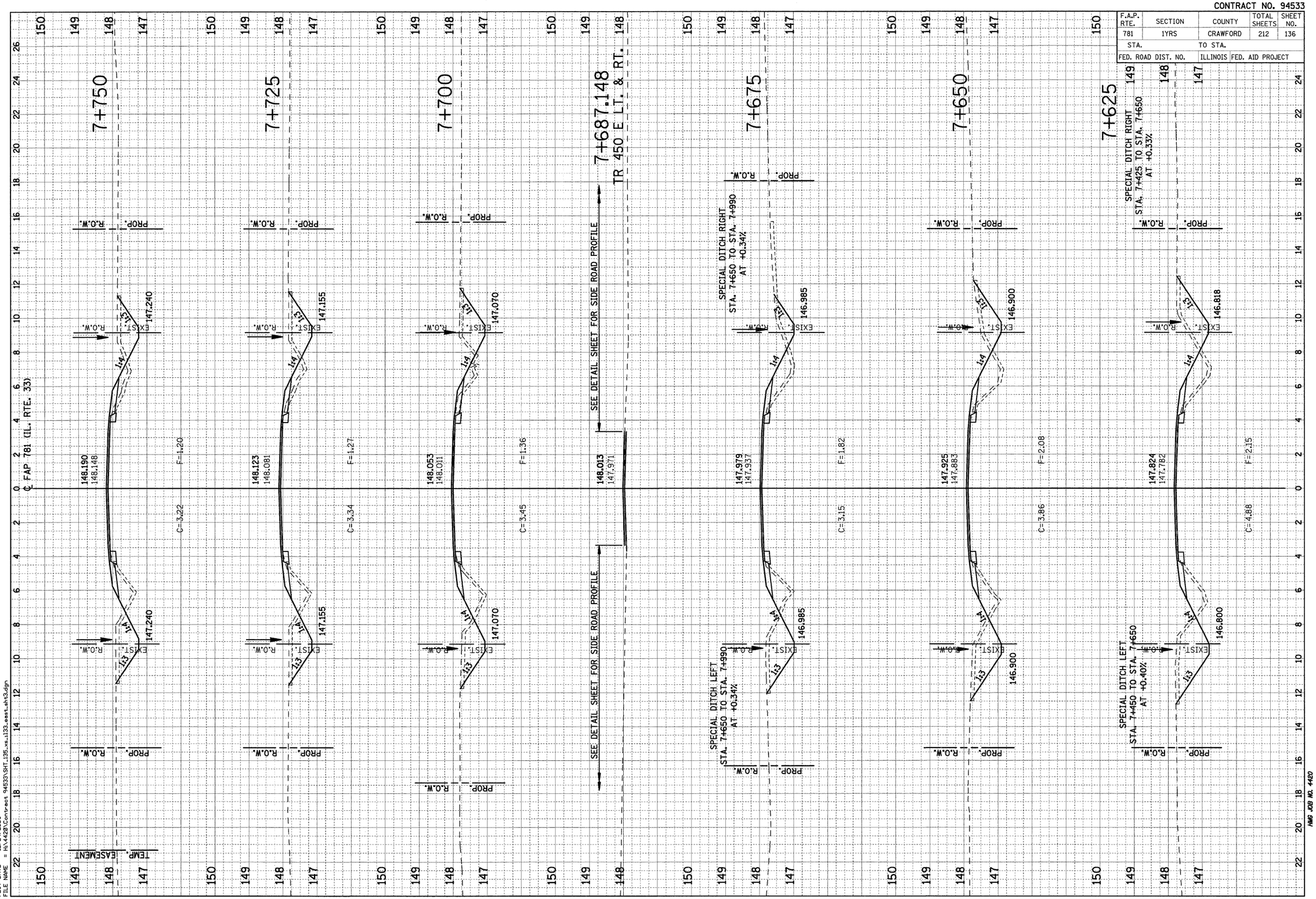
PLOT DATE = 12/29/2008
FILE NAME = H:\1420\Contract 94533\SHT_135_xs_1133_east_sh3.dgn

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	136
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

H.M.L. SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	DRAWN	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	



PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	137
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\1428\Contract 94533\SHT_135_xs_il33_east_sht3.dgn

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HMG JOB NO. 4420

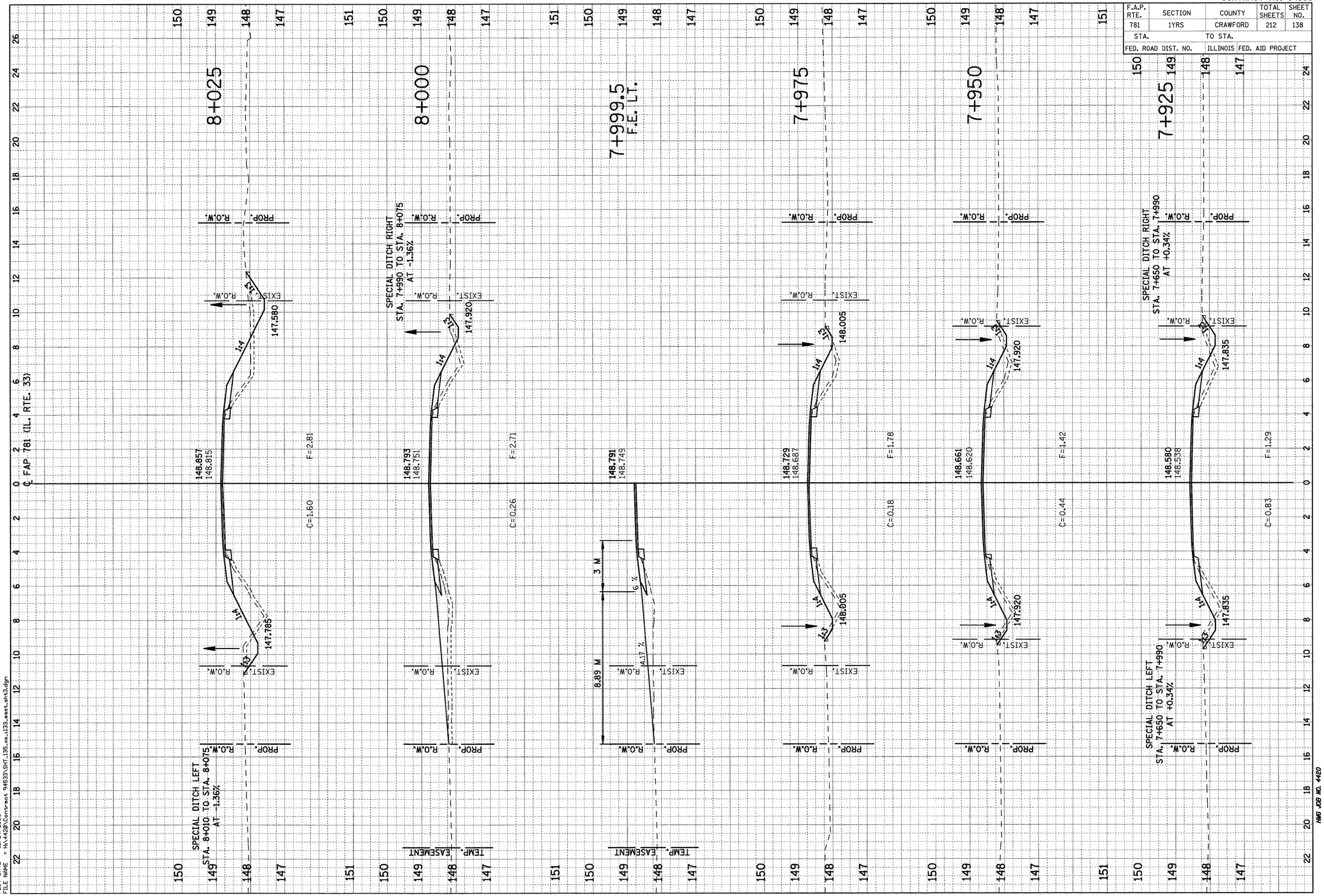
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	138
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn



HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = Hs\4420\Contract 94533\SHT_135_xs_133_east_sht3.dgn

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

℄ FAP 781 (IL. RTE. 33)

8+150

SPECIAL DITCH LEFT
STA. 8+125 TO STA. 8+450
AT +0.34%

SPECIAL DITCH RIGHT
STA. 8+125 TO STA. 8+450
AT +0.34%

149.032
148.990

147.545

147.545

C=5.52 F=3.45

8+125

149.040
148.998

147.460

147.460

C=5.34 F=4.10

8+100

SPECIAL DITCH LEFT
STA. 8+085 TO STA. 8+125
AT +0.98%

SPECIAL DITCH RIGHT
STA. 8+085 TO STA. 8+125
AT +1.40%

148.970
148.928

147.215

147.110

C=9.11 F=4.32

8+075

148.957
148.915

147.105

146.900

C=4.52 F=7.88

8+063
C.E. RT.

3 M
8.89 M
4 %
4.87 %

148.943
148.901

375 mm
147.063

8+050

148.916
148.874

147.445

147.240

C=4.85 F=3.42

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	139
STA.				
TO STA.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	140
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY — NOTE BOOK — NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY — NOTE BOOK — NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

PLOT DATE = 12/29/2008
FILENAME = H:\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn

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HMG JOB NO. 4420

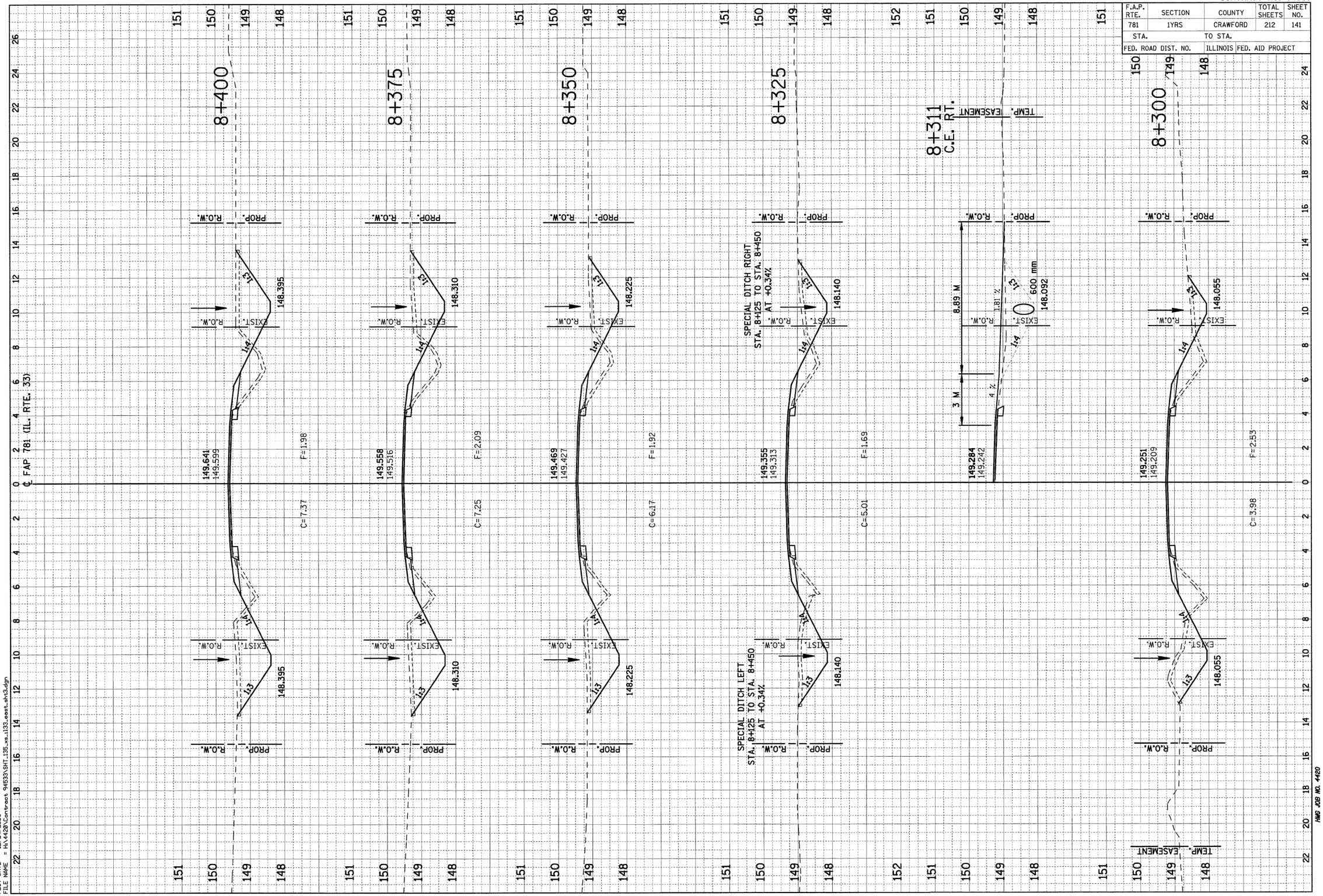
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	141
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn



HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
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℄ FAP 781 (IL. RTE. 33)

8+525

149.942
149.900

148.865 148.865

C=4.97 F=1.38

8+500

149.868
149.826

148.765 148.765

C=5.33 F=1.40

8+475

149.832
149.790

148.665 148.665

C=6.10 F=1.46

8+456 F.E. LT. & RT.

8.89 M 3 M 3 M 8.89 M

149.817
149.775

0.57 % 6 % 6 % 1.59 %

900 MM EQUIV. RND. SIZE 148.589

600 mm 148.589

C=6.92 F=1.43

8+450

SPECIAL DITCH LEFT
STA. 8+450 TO STA. 8+700
AT +0.40%

SPECIAL DITCH RIGHT
STA. 8+450 TO STA. 8+700
AT +0.40%

149.797
149.755

148.565 148.565

C=7.13 F=1.60

8+425

SPECIAL DITCH LEFT
STA. 8+125 TO STA. 8+450
AT +0.34%

SPECIAL DITCH RIGHT
STA. 8+125 TO STA. 8+450
AT +0.34%

149.716
149.674

148.480 148.480

HMG JOB NO. 4420

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
STA.	781	F.A.P. RTE.	
TO STA.	1YRS	SECTION	
	CRAWFORD	COUNTY	
	212	TOTAL SHEETS	
	142	SHEET NO.	

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	143
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn

8+625

8+613.5 C.E. LT.

8+607 P.E. RT.

8+600

8+575

8+563 P.E. LT.

8+550

℄ FAP 781 (IL. RTE. 33)

PROP. R.O.W. EXIST. R.O.W. TEMP. EASEMENT

150.341 150.299 — 149.265 — C=7.07 — F=0.45

150.277 150.235 — 11.938 M — 3 M — 4 % — 1.24 % — 1:3 — 1:4 — 525 mm — 149.219

150.245 150.203 — 8.89 M — 3 M — 4 % — 1.75 % — 1:3 — 1:4 — 375 mm — 149.193

150.215 150.173 — 149.165 — C=4.86 — F=0.88

150.106 150.064 — 149.065 — C=4.43 — F=1.32

150.052 150.010 — 11.938 M — 3 M — 4 % — 1.56 % — 1:3 — 1:4 — 525 mm — 149.017

149.993 149.951 — 148.965 — C=4.13 — F=1.29

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	144
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	BY	DATE
SURVEYED		
AS-STAKED		
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
AS-STAKED		
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	

8+705.601 P.E. LT.

8+700

8+675

8+669 P.E. RT.

8+651 P.E. RT.

8+650

8+634 P.E. LT.

℄ FAP 781 (IL. RTE. 33)

EXIST.

R.O.W.

SPECIAL DITCH RIGHT
STA. 8+450 TO STA. 8+700
AT +0.40%

SPECIAL DITCH LEFT
STA. 8+450 TO STA. 8+700
AT +0.40%

150.606
150.564

150.591
150.549

150.522
150.480

150.506
150.464

150.456
150.414

150.453
150.411

150.392
150.350

149.565

149.465

149.441

149.369

149.365

149.301

F=0.00

F=0.04

F=0.29

C=9.44

C=8.37

C=8.37

11.938 M

3 M

5.04 %

4 %

2.36 %

2.20 %

1.56 %

375 mm

525 mm

1:4

1:3

1:1

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Const-est 94533\SHT_135_xs_1133_east_sht3.dgn

HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_133_east_sht3.dgn

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℄ FAP 781 (IL. RTE. 33)

8+770.5 P.E. LT.

11.938 M | 3 M
R.O.W. | R.O.W.
PROP. | EXIST.
1.78 % | 4 %
1:3 | 1:4
375 mm
149.795
150.789
150.747

8+750

R.O.W. | R.O.W. | R.O.W.
PROP. | EXIST. | EXIST.
1:3 | 1:4 | 1:4 | 1:3
149.836
150.723
150.681
149.736

C=5.16 F=0.38

8+749 P.E. RT.

3 M | 11.938 M
R.O.W.
4 % | 0.90 %
1:4 | 1:3
375 mm
149.738
150.721
150.679
EXIST.

8+739.7 P.E. LT.

11.938 M | 3 M
R.O.W. | R.O.W.
PROP. | EXIST.
3.50 % | 4 %
1:3 | 1:4
375 mm
149.857
150.699
150.657

8+725

SPECIAL DITCH LEFT
STA. 8+713 TO STA. 8+825
AT -0.20%

SPECIAL DITCH RIGHT
STA. 8+718 TO STA. 8+825
AT -0.20%

R.O.W. | R.O.W. | R.O.W.
PROP. | EXIST. | EXIST.
1:3 | 1:4 | 1:4 | 1:3
149.886
150.661
150.619
149.786

C=4.35 F=0.21

8+724.5 P.E. RT.

3 M | 11.938 M
R.O.W.
4 % | 1.00 %
1:4 | 1:3
375 mm
149.787
150.660
150.618
EXIST.

8+710.5 P.E. RT.

3 M | 11.938 M
R.O.W.
4 % | 3.13 %
150.620
150.578
EXIST.

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	145
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
STA.	TO STA.			

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	146
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

8+825
R.O.W.
EXIST.
1:4
1:3
149.586
150.895
150.853
F=3.34
C=3.48

8+800
SPECIAL DITCH RIGHT
STA. 8+718 TO STA. 8+825
AT -0.20%
R.O.W.
EXIST.
1:4
1:3
149.636
150.838
150.796
F=1.54
C=4.51

8+793.3
P.E. RT.
R.O.W.
EXIST.
11.938 M
3 M
4 %
0.12 %
1:4
1:3
0
375 mm
149.649
150.823
150.781

8+792
P.E. LT.
150.821
150.779

8+778.5
P.E. RT.
R.O.W.
EXIST.
11.938 M
3 M
4 %
0.37 %
1:4
1:3
0
375 mm
149.679
150.806
150.764

8+775
R.O.W.
EXIST.
1:4
1:3
149.686
150.802
150.760
F=0.59
C=5.03

SPECIAL DITCH LEFT
STA. 8+713 TO STA. 8+825
AT -0.20%
R.O.W.
EXIST.
1:4
1:3
149.736

R.O.W.
EXIST.
11.938 M
3 M
4 %
0.66 %
1:4
1:3
0
375 mm
149.752

PROP.
R.O.W.
EXIST.
1:4
1:3
149.786

C FAP 781 (IL. RTE. 33)

PLOT DATE = 12/29/2008
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HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
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℄ FAP 781 (IL. RTE. 33)

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

151.080
151.038

8+910.897
TR 525 E LT.

151.067
151.025

149.941 — 150.147

8+900

C=2.40 F=0.21

151.030
150.988

150.050 — 149.947

8+875

C=4.67 F=0.08

3 M — 11.938 M

151.016
150.974

4 % — 0.53 %

375 mm
149.903

8+869.5
C.E. RT.

SPECIAL DITCH LEFT
STA. 8+832.5 TO STA. 8+893
AT +0.80%

SPECIAL DITCH RIGHT
STA. 8+832.5 TO STA. 8+910
AT +0.80%

150.968
150.926

149.850 — 149.747

8+850

C=6.41 F=0.79

11.938 M — 3 M

150.947
150.905

0.05 % — 4 %

450 mm
149.794

8+843
C.E. LT.

3 M — 11.938 M

150.942
150.900

4 % — 2.37 %

375 mm
149.675

8+841
C.E. RT.

R.O.W. EXIST. 1:3 1:4

HMG JOB NO. 4420

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	F.A.P. RTE. 781	SECTION 1YRS	COUNTY CRAWFORD	TOTAL SHEETS 212	SHEET NO. 147
STA.		TO STA.					

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = Hs\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn

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℄ FAP 781 (IL. RTE. 33)

9+025

150.117
150.075

148.990 — 149.166

C=0.38 F=1.37

9+000

150.475
150.433

149.349 — 149.525

C=0.08 F=0.83

8+975

150.728
150.686

149.649 — 149.720

C=0.29 F=0.93

8+950

150.928
150.886

149.949 — 149.915

C=3.43 F=0.79

8+949 P.E. RT.

3 M — 11.938 M

150.936
150.894

4 % — 1.41 %

375 mm — 149.923

8+925

SPECIAL DITCH LEFT
STA. 8+925 TO STA. 9+000
AT -1.20%

SPECIAL DITCH RIGHT
STA. 8+910 TO STA. 9+000
AT -0.78%

151.045
151.003

150.249 — 150.110

C=0.58 F=0.29

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	148
FED. ROAD DIST. NO.	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	149
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
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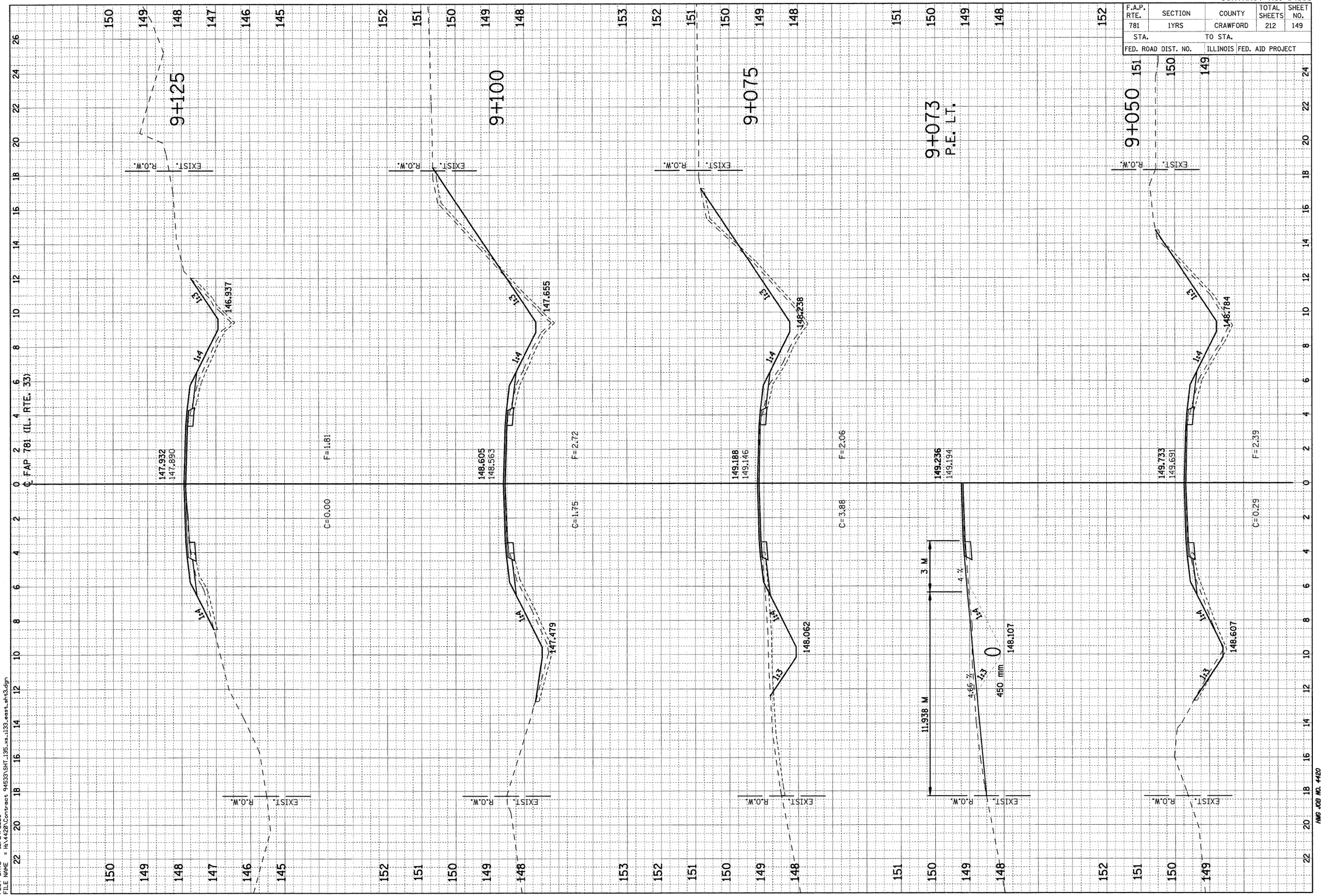


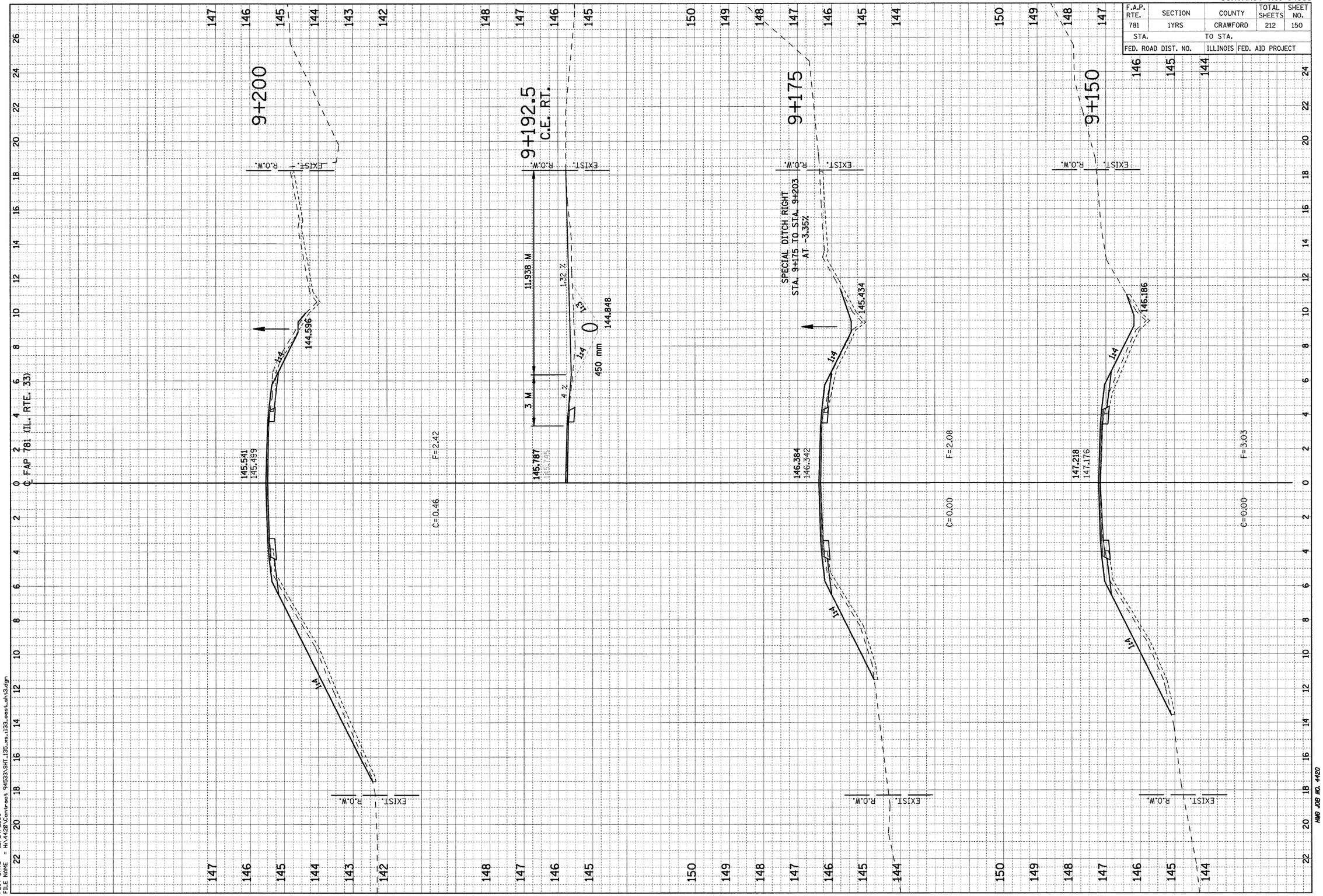
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	150
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = Ht:\4420\Contract 94533\SHT_I35_xs_1133_east_sht3.dgn



HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	151
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

9+300

144.577
144.535

F=10.76

C=0.00

9+275

144.569
144.527

F=5.98

C=0.00

9+250

144.720
144.678

F=5.94

C=0.00

9+225

145.016
144.975

F=2.24

C=0.01

℄ FAP 781 (IL. RTE. 33)

EXIST. R.O.W.

1:4

1:4

1:4

1:4

1:4

1:4

1:4

1:4

PLOT DATE = 12/29/2008
FILE NAME = H:\1420\Contract 94533\SHT_I35_xs_I33_east_sh13.dgn

HMG JOB NO. 1420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	152
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

BIG CREEK BRIDGE
AND ROAD OMISSION
STA. 9+385 TO STA. 9+580

9+385 9+375 9+350 9+325

℄ FAP 781 (IL. RTE. 33)

38 mm BUTT JOINT
MATCH EXISTING
144.692
144.632

144.620
144.601

144.553
144.513

144.572
144.530

F=0.00 C=0.33

F=0.06 C=0.20

F=2.75 C=0.00

F=5.22 C=0.28

EXIST. R.O.W.

1:4 1:4 1:4

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_133_east_sht3.dgn

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	153
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

9+675

EXIST. R.O.W.

1:3

1:4

144.000

145.886
145.844

C=3.29

F=2.57

9+650

SPECIAL DITCH RIGHT
STA. 9+650 TO STA. 9+700
AT +6.00%

EXIST. R.O.W.

1:3

1:4

142.500

145.288
145.246

C=0.67

F=3.18

9+625

SPECIAL DITCH RIGHT
STA. 9+625 TO STA. 9+650
AT +2.00%

EXIST. R.O.W.

1:3

1:4

142.000

144.879
144.837

C=0.23

F=5.27

9+600

SPECIAL DITCH RIGHT
STA. 9+600 TO STA. 9+625
AT +0.80%

EXIST. R.O.W.

1:3

1:4

141.800

144.665
144.623

C=0.97

F=5.50

9+580

EXIST. R.O.W.

38 mm BUTT JOINT
MATCH EXISTING

144.548
144.548

C=0.77

F=0.34

℄ FAP 781 (IL. RTE. 33)

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn

HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = Hs\4420\Contract 94533\SHT_135_xs_i133_east_sht3.dgn

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

℄ FAP 781 (IL. RTE. 33)

TEMP. EASEMENT
R.O.W.
EXIST.
1:3
1:4
147.075
148.201
148.159
REMOVE ROCK ROAD
SEE PLAN SHEETS
4.00 %
9+750
C= 9.49 F= 0.81

147.437
147.395
145.462
146.311
VARIES
9+725
C=11.16 F=0.23

3 M
11.938 M
146.875
146.833
4 %
0.05 %
450 mm
145.760
9+707.5
P.E. RT.

SPECIAL DITCH LEFT
STA. 9+700 TO STA. 9+750
AT +6.45%
146.629
146.587
143.850
145.503
9+700
C=1.92 F=1.28

3 M
11.938 M
146.086
146.044
4 %
2.79 %
450 mm
145.051
9+682.5
P.E. RT.

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	154
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
STA.	TO STA.			

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	155
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn

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HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = Hs\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn

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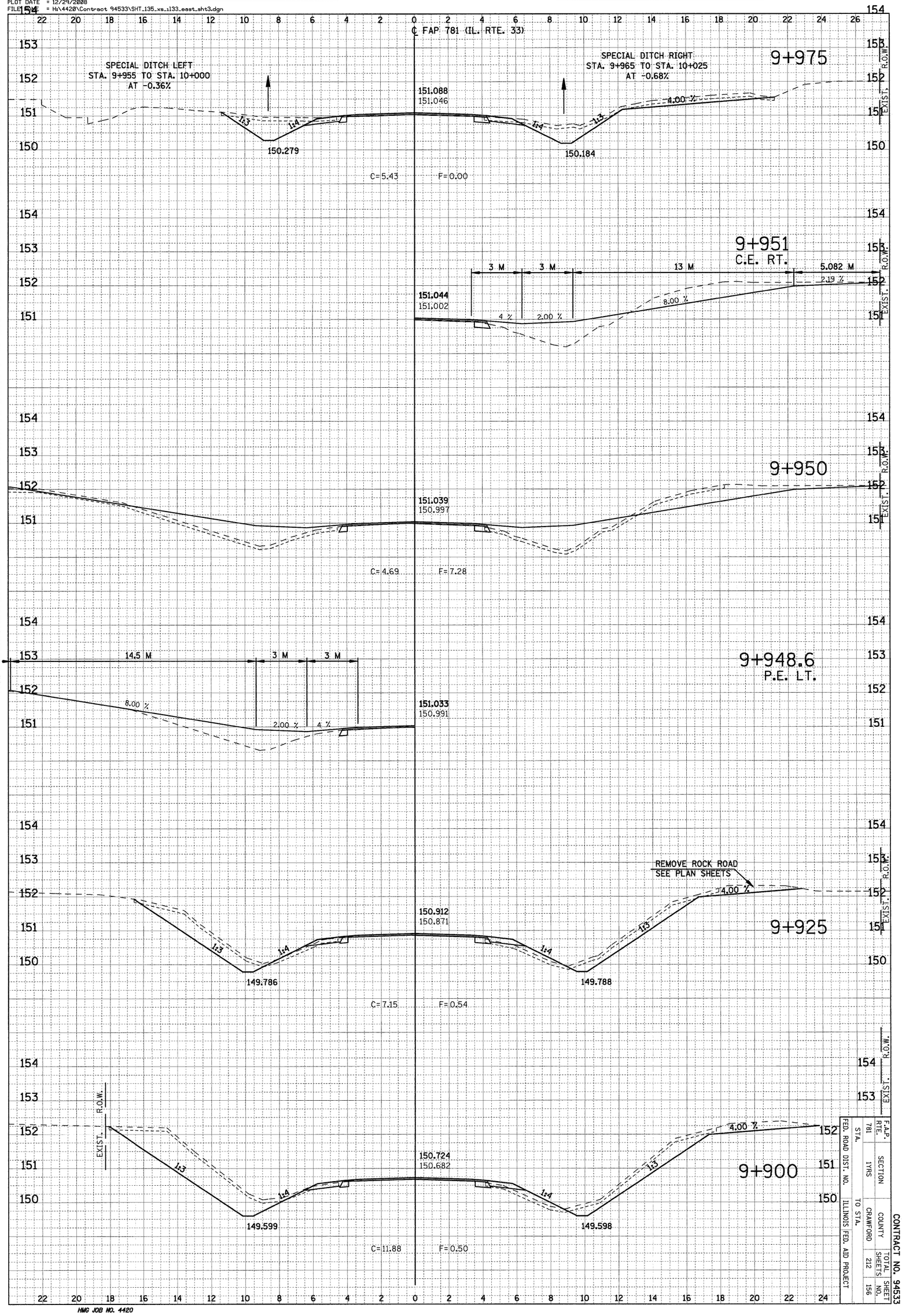

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	156
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	157
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_133_east_sht3.dgn

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HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn

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℄ FAP 781 (IL. RTE. 33)

10+200

149.392
149.350

SPECIAL DITCH LEFT
AT +5.26%

SPECIAL DITCH RIGHT
STA. 10+195 TO STA. 10+225
AT +7.82%

1:3

R.O.W.

EXIST.

144.468

144.649

C=3.82 F=16.67

10+175

149.469
149.427

1:3

1:1.7

PROP.

EXIST.

R.O.W.

C=0.00 F=6.60

10+150

149.626
149.584

1:2.9

1:4

EXIST.

R.O.W.

C=0.00 F=16.16

10+125.278
STOY RD. LT. & RT.
(TR 600 E)

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

149.897
149.855

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	158
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn

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℄ FAP 781 (IL. RTE. 33)

10+321.5 F.E. RT.

3 M | 3 M | 11.986 M
R.O.W. | EXIST. | R.O.W.
150.551
150.509
6 % | 2.00 % | 8.67 %
1:4 | 1:3
600 mm
149.435

10+300

R.O.W. | EXIST. | R.O.W.
150.195
150.153
1:4 | 1:4
149.069 | 149.069
C=0.69 F=0.51

10+275

SPECIAL DITCH LEFT
STA. 10+250 TO STA. 10+300
AT +3.94%
R.O.W. | EXIST. | R.O.W.
149.860
149.818
1:4 | 1:3 | 1:4
148.084 | 148.734
C=3.00 F=2.74

10+250

R.O.W. | R.O.W.
PROP. | EXIST. | R.O.W.
149.614
149.571
1:4 | 1:3 | 1:4 | 1:3
147.100 | 147.669
C=5.09 F=5.10

10+225

SPECIAL DITCH RIGHT
STA. 10+225 TO STA. 10+275
AT +4.26%
PROP. R.O.W. | EXIST. | R.O.W.
149.454
149.412
1:4 | 1:3 | 1:4 | 1:3
145.784 | 146.604
C=3.91 F=12.79

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	159
FED. ROAD DIST. NO.	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
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℄ FAP 781 (IL. RTE. 33)

10+425

152.606
152.564
151.480
151.480
C=6.77 F=1.31

10+400

152.116
152.074
150.991
150.991
C=6.92 F=1.07

10+375

151.614
151.572
150.487
150.487
C=4.51 F=0.92

10+350

151.126
151.084
150.000
150.000
C=0.75 F=0.80

10+329
C.E. LT.

11.938 M
3 M
2.95 %
4 %
600 mm
150.702
150.660
149.577

10+325

150.622
150.580
149.497
149.497
C=0.37 F=1.98

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	160
FED. ROAD DIST. NO.	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
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℄ FAP 781 (IL. RTE. 33)

10+575

SPECIAL DITCH LEFT
STA. 10+565 TO STA. 11+060
AT +0.30%

SPECIAL DITCH RIGHT
STA. 10+565 TO STA. 11+065
AT +0.30%

153.897
153.854

152.757 | 152.757

C=2.82 F=1.69

10+559.5 C.E. RT.

3 M | 11.938 M

153.829
153.787

4 % | 0.64 %

600 mm

152.696

10+550

153.782
153.740

152.630 | 152.630

C=3.68 F=1.69

10+525

153.659
153.617

152.438 | 152.438

C=4.73 F=1.68

10+500 C.E. LT.

11.938 M | 3 M

0.51 % | 4 %

600 mm

153.371
153.492

152.245 | 152.245

C=10.16 F=0.41

10+475

153.176
153.321

152.051 | 152.051

C=6.12 F=1.76

10+450

153.036
152.994

151.853 | 151.853

C=5.82 F=1.72

R.O.W. | EXIST. | 1:3 | 1:4

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	161

FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

STA. TO STA.

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_133_east_sht3.dgn

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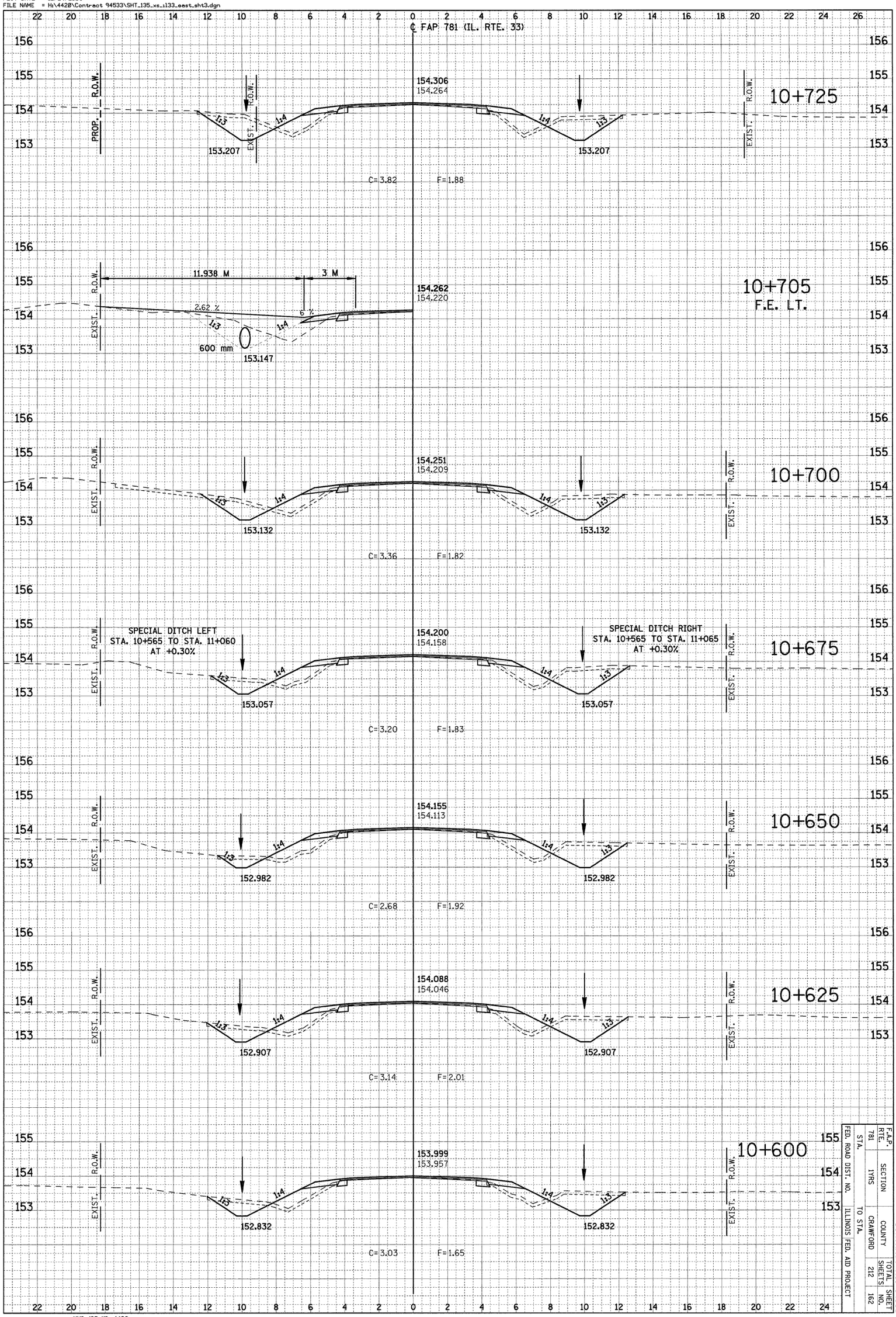

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	162
FED. ROAD DIST. NO.		TO STA.		
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 94533

HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = Hs\4420\Contract 94533\SHT_135_xs_133_east_sht3.dgn

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℄ FAP 781 (IL. RTE. 33)

10+784.8 P.E. LT.

11.938 M | 3 M | R.O.W. | PROP. | EXIST. | 0.43 % | 4 % | 1:3 | 1:4 | 450 mm | 154.453 | 154.415 | 153.387

10+775

EXIST. BUILDING | SPECIAL DITCH LEFT STA. 10+565 TO STA. 11+060 AT +0.30% | SPECIAL DITCH RIGHT STA. 10+565 TO STA. 11+065 AT +0.30% | 154.432 | 154.389 | 153.357 | 153.357 | C=4.41 | F=1.30

10+765.5 P.E. LT.

11.938 M | 3 M | R.O.W. | PROP. | EXIST. | 0.17 % | 4 % | 1:3 | 1:4 | 450 mm | 154.408 | 154.366 | 153.328

10+750

154.365 | 154.323 | 153.282 | 153.282 | C=4.37 | F=1.28

10+740 P.E. LT.

11.938 M | 3 M | R.O.W. | PROP. | EXIST. | 1.65 % | 4 % | 1:3 | 1:4 | 600 mm | 154.337 | 154.295 | 153.252

10+736.079 FIRE BAUGH AVE. RT.

SEE DETAIL SHEET FOR SIDE ROAD PROFILE | 154.329 | 154.287

10+732 P.E. LT.

11.938 M | 3 M | R.O.W. | PROP. | EXIST. | 0.32 % | 4 % | 1:3 | 1:4 | 600 mm | 154.321 | 154.279 | 153.228

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	163
FED. ROAD DIST. NO.	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_135_xs_1133_east_sht3.dgn

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℄ FAP 781 (IL. RTE. 33)

10+864 C.E. RT.

154.640
154.595
3 M
11.938 M
4 %
0.86 %
1:4
1:3
450 mm
EXIST.
153.624
R.O.W.
PROP.

10+850

154.608
154.561
R.O.W.
PROP.
EXIST.
1:3
1:4
1:5
153.582
153.582
C=2.92
F=1.56

10+825

154.549
154.502
R.O.W.
PROP.
EXIST.
1:3
1:4
153.507
153.507
C=3.67
F=1.19

10+824 P.E. LT.

154.547
154.500
11.938 M
3 M
1.00 %
4 %
R.O.W.
PROP.
EXIST.
1:3
1:4
450 mm
153.504

10+819.6 C.E. RT.

154.532
154.490
3 M
11.938 M
4 %
1.01 %
1:4
1:3
600 mm
153.491
R.O.W.
EXIST.

10+800

154.491
154.445
R.O.W.
PROP.
EXIST.
1:3
1:4
1:5
153.432
153.432
C=4.44
F=1.20

10+793.9 P.E. LT.

154.473
154.431
11.938 M
3 M
0.20 %
4 %
R.O.W.
PROP.
EXIST.
1:3
1:4
450 mm
153.414

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	164
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
STA.	TO STA.			

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

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℄ FAP 781 (IL. RTE. 33)

10+975

SPECIAL DITCH LEFT
STA. 10+565 TO STA. 11+060
AT +0.30%

154.784
154.741

153.957

SPECIAL DITCH RIGHT
STA. 10+565 TO STA. 11+065
AT +0.30%

153.957

C=0.76 F=1.58

10+950

154.781
154.739

153.882

153.882

C=0.95 F=1.83

10+925

154.751
154.709

153.807

153.807

C=2.04 F=1.36

10+920.5
P.E. RT.

3 M 11.938 M

154.745
154.703

4 %

1.44 %

450 mm

153.794

10+915.5
P.E. LT.

11.938 M 3 M

154.738
154.696

1.85 %

4 %

450 mm

153.778

10+900

154.716
154.674

153.732

153.732

C=1.85 F=1.86

10+875

SPECIAL DITCH LEFT
STA. 10+565 TO STA. 11+060
AT +0.30%

154.666
154.622

153.657

SPECIAL DITCH RIGHT
STA. 10+565 TO STA. 11+065
AT +0.30%

153.657

C=2.41 F=1.70

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	165
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
STA.	TO STA.			

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	166
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

ORIGINAL SURVEY	SURVEYED	8"	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

11+125

C FAP 781 (IL. RTE. 33)

154.921 154.879 — F=1.36 — 153.865

11+100

SPECIAL DITCH RIGHT
STA. 11+090 TO STA. 11+175
AT -0.76%

154.938 154.896 — F=1.14 — 154.048

SPECIAL DITCH LEFT
STA. 11+080 TO STA. 11+175
AT -0.76%

154.921 154.879 — F=1.36 — 153.877

11+075

154.921 154.879 — F=1.48 — 154.067

11+073.84
F.E. LT. & F.E. RT.

12.937 M
3 M
6 %
0.31 %

154.920 154.878 — F=2.70 — 154.067

12.941 M
3 M
6 %
0.31 %

11+050

SPECIAL DITCH LEFT
STA. 10+565 TO STA. 11+060
AT +0.30%

154.908 154.866 — F=1.07 — 154.182

11+025

154.883 154.841 — F=1.14 — 154.107

11+000

154.836 154.794 — F=1.54 — 154.032

TEMP. EASEMENT
PROP.
R.O.W.
EXIST.
1:4
1:3

C=4.09 C=2.23 C=2.70 C=0.99 C=1.00 C=0.78

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Cons-act 94533\SHT_165_xs_i133_east_sht4.dgn

HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_133_east_sht4.dgn

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℄ FAP 781 (IL. RTE. 33)

11+246 F.E. RT.

3 M | 11.938 M
154.895
154.853
6 %
2.71 %
1:4
1:3
375 mm
153.412
R.O.W.
EXIST.

11+225

SPECIAL DITCH LEFT
STA. 11+206 TO STA. 11+335
AT +0.66%
154.899
154.857
153.371
SPECIAL DITCH RIGHT
STA. 11+206 TO STA. 11+335
AT +0.77%
153.250
C=3.70 F=3.42

11+200

SPECIAL DITCH LEFT
STA. 11+175 TO STA. 11+200
AT -0.98%
154.918
154.876
153.252
SPECIAL DITCH RIGHT
STA. 11+175 TO STA. 11+200
AT -1.51%
153.120
C=2.74 F=4.81

11+175

154.931
154.889
153.497
153.497
C=4.94 F=3.00

11+150

154.931
154.889
153.687
153.681
C=5.32 F=2.14

11+146.5 P.E. LT.

11.938 M | 3 M
154.929
154.887
1.01 %
4 %
375 mm
153.714

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	167

FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

STA. TO STA.

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

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℄ FAP 781 (IL. RTE. 33)

11+350

R.O.W. EXIST.

11.94 M | 3 M

2.64 % | 4 %

154.888

C=0.00 F=3.11

11+346.5
C.E. RT.

3 M | 14.986 M

154.891
154.849

4 % | 1.84 %

11+325

SPECIAL DITCH LEFT
STA. 11+206 TO STA. 11+335
AT +0.66%

SPECIAL DITCH RIGHT
STA. 11+206 TO STA. 11+335
AT +0.77%

154.924
154.882

1:3 | 1:4 | 1:4 | 1:3

154.031 | 154.020

C=1.30 F=0.00

11+306.5
P.E. LT.

11.938 M | 3 M

1.11 % | 4 %

154.944
154.902

375 mm Ø

153.909

11+300

154.941
154.899

153.866 | 153.828

C=2.23 F=0.08

11+275

154.924
154.882

153.701 | 153.635

C=2.89 F=0.90

11+250

154.894
154.852

153.536 | 153.443

C=5.74 F=1.76

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	168
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	169
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = 12/29/2008
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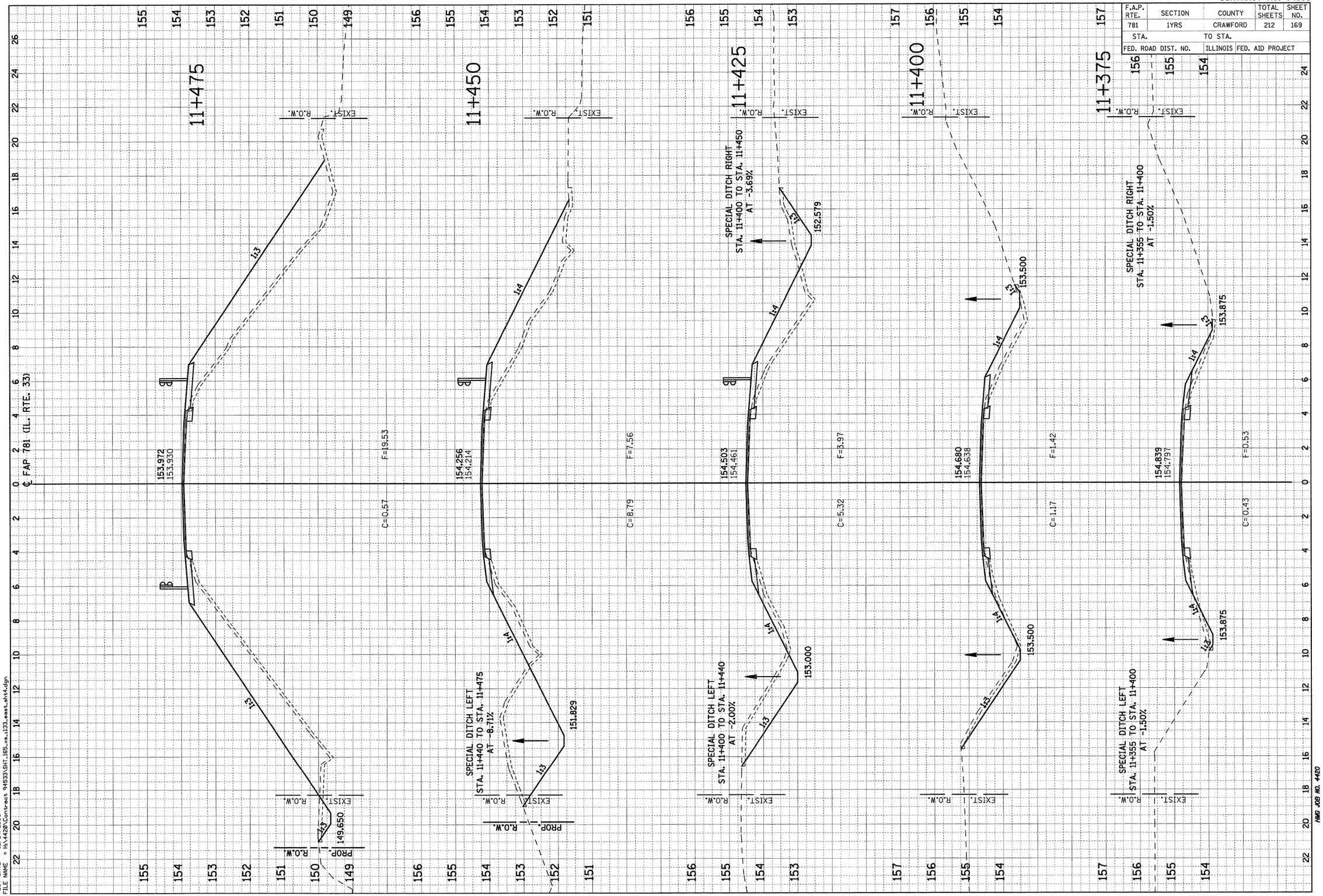

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HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	170
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

11+575

SPECIAL DITCH RIGHT
STA. 11+535 TO STA. 11+600
AT +2.67%

153.156
153.114

1:3
1:4
151.086
F=1.83
C=14.47

11+571.6
C.E. RT.

153.174
153.132

14.986 M
3 M
0.73 %
4 %
375 mm
150.994

11+550

153.294
153.252

1:4
1:3
150.418
F=3.41
C=7.92

SPECIAL DITCH LEFT
STA. 11+550 TO STA. 11+600
AT +1.20%

1:4
1:3
151.450

SPECIAL DITCH LEFT
STA. 11+525 TO STA. 11+550
AT +4.125%

1:4
1:3
151.150

11+525

153.472
153.430

1:4
1:3
F=6.20
C=5.22

SPECIAL DITCH LEFT
STA. 11+505 TO STA. 11+525
AT +6.85%

1:4
1:3
150.120

11+500

153.699
153.657

1:4
1:3
F=6.65
C=0.00

R.O.W.
EXIST.
PROP.

PLOT DATE = 12/29/2008
FILE NAME = H:\4428\Contract 94533\SHT_185_xs_1133_east_sht4.dgn

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	171
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

℄ FAP 781 (IL. RTE. 33)

11+698 C.E. RT.

14 M, 3 M, 3 M, 2.228 M, 8.00 %, 2.73 %, 4 %, 2.00 %

EXIST. R.O.W. PROP. R.O.W.

153.076 153.034

11+675

SPECIAL DITCH RIGHT
STA. 11+600 TO STA. 11+685
AT +0.50%

153.010 152.968 152.125

1:4 1:3 1:4 1:3

F=0.19 C=2.39

11+650

152.987 152.945 152

F=0.48 C=2.42

11+625

152.990 152.948 151.875

F=1.00 C=1.06

11+600

SPECIAL DITCH RIGHT
STA. 11+685 TO STA. 11+600
AT +0.50%

153.047 153.005 151.750

F=1.09 C=0.55

SPECIAL DITCH LEFT
STA. 11+600 TO STA. 11+705
AT +0.50%

PLOT DATE = 12/29/2008
FILE NAME = H:\1428\Contract 94533\SHT_I65_xs_1133_east_sht1.dgn

HMG JOB NO. 1428

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

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

PLOT DATE = 12/29/2008
FILE NAME = Hs\4420\Contract 94533\SHT_165.xs.i33.east.sht4.dgn

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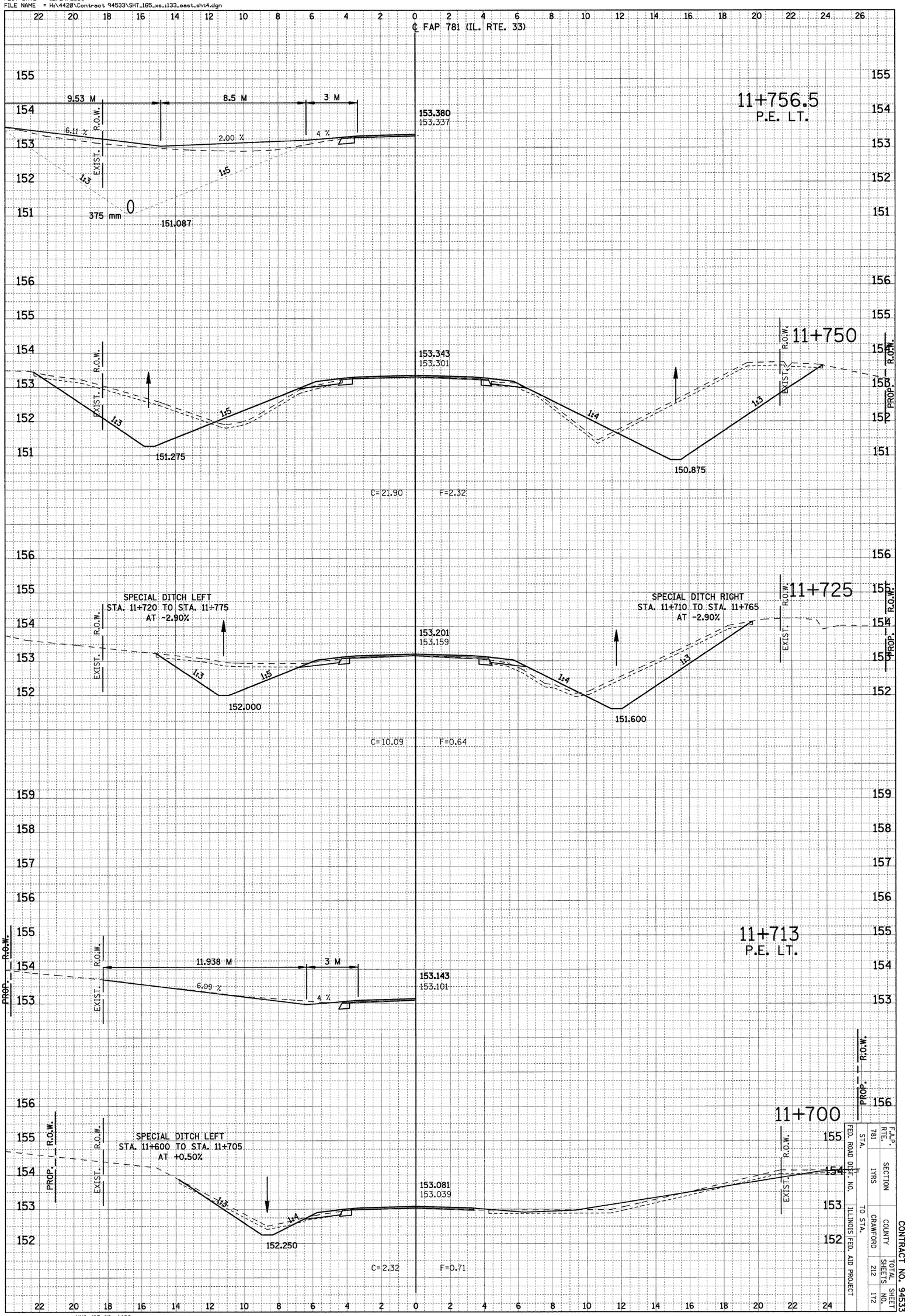

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	172
STA.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
TO STA.				

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

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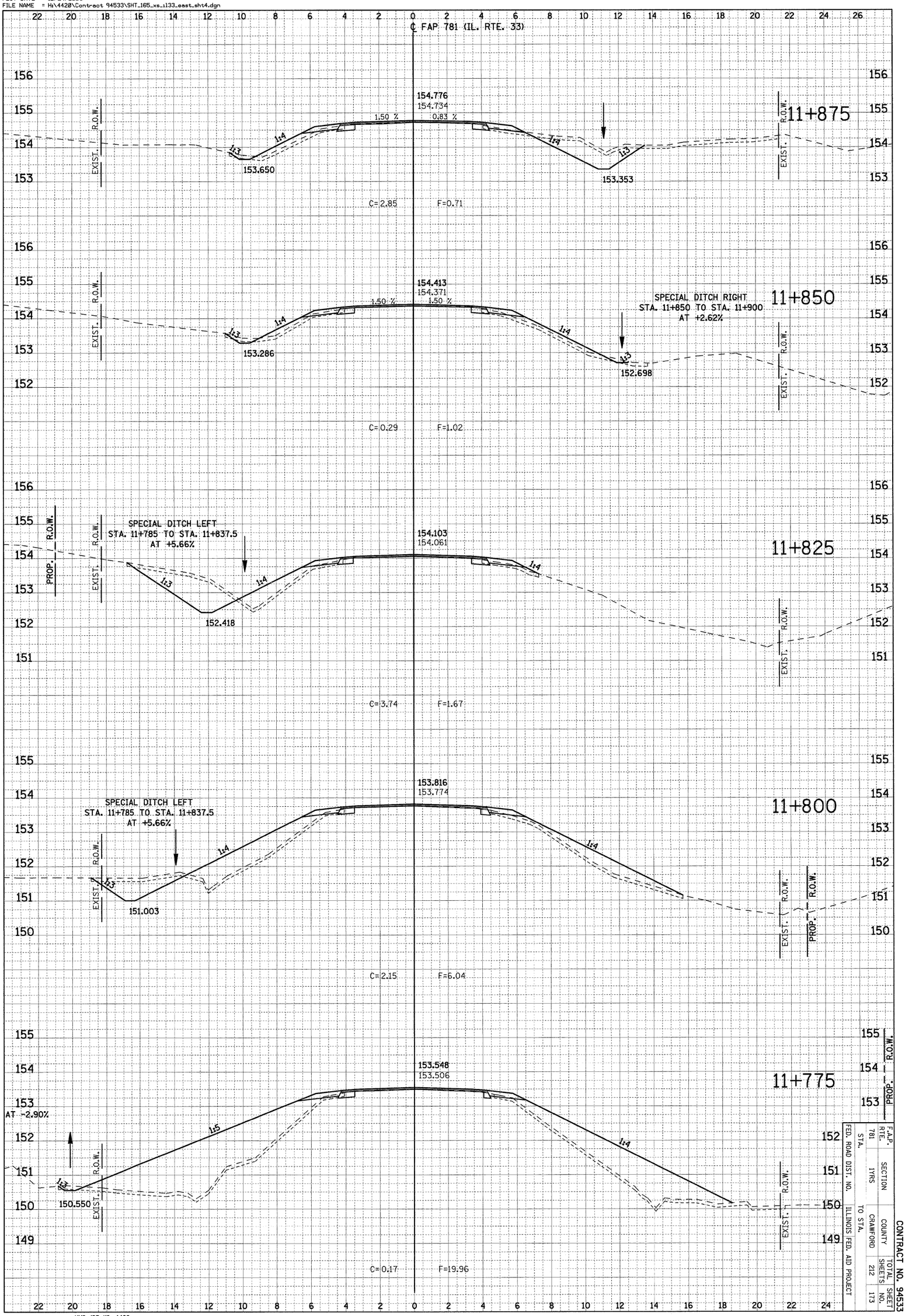

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	173
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	174
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_I65_xs_I33_east_sht4.dgn

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

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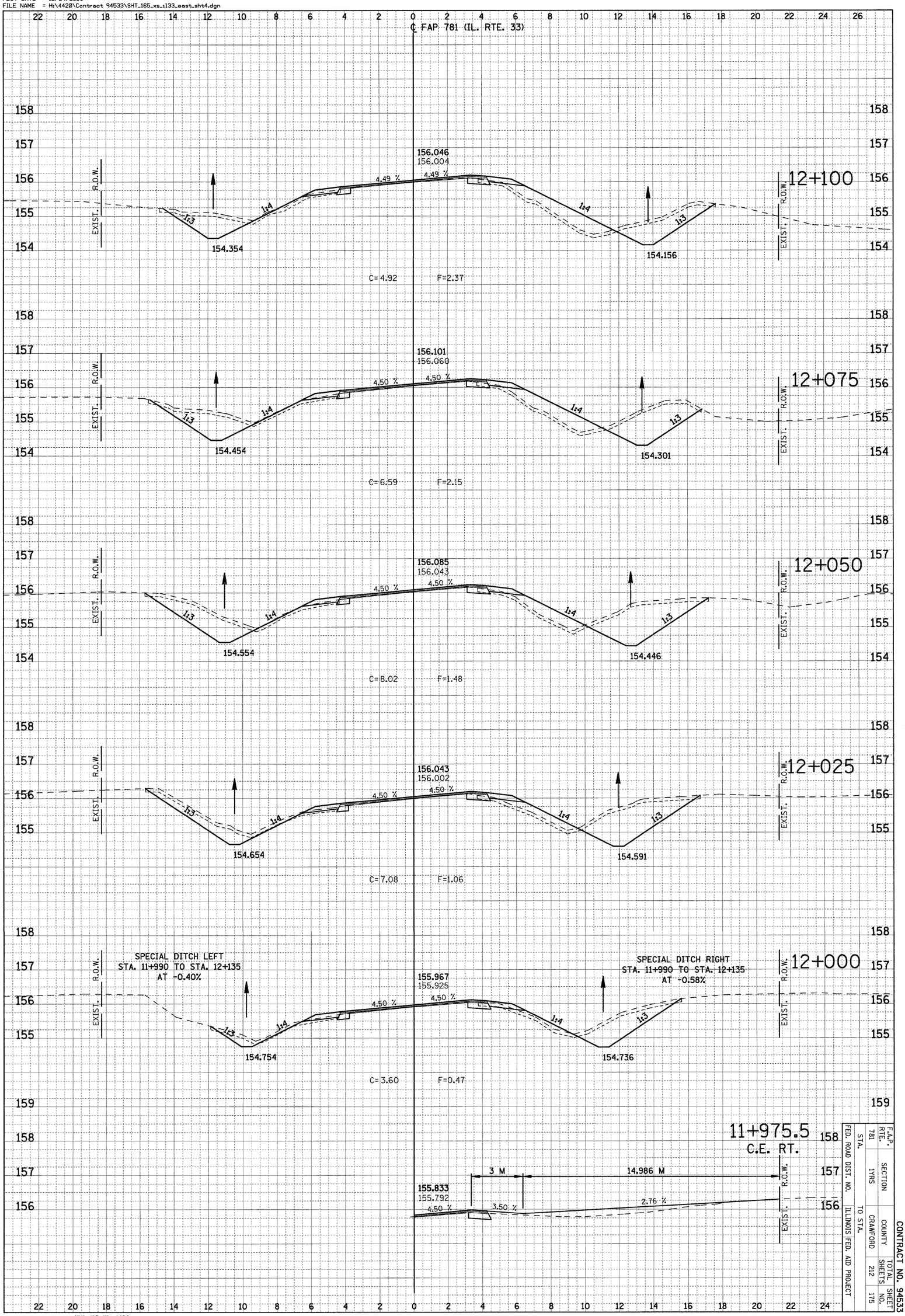

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	175
FED. ROAD DIST. NO.	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

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℄ FAP 781 (IL. RTE. 33)

12+250

EXIST. R.O.W. — R.O.W. EXIST.

154.780
154.738

153.653 — 153.653

1:3 — 1:4 — 1:4 — 1:3

C=3.94 F=0.86

12+225

EXIST. R.O.W. — R.O.W. EXIST.

155.105
155.063

153.978 — 153.978

1:3 — 1:4 — 1:4 — 1:3

C=2.82 F=0.74

12+200

EXIST. R.O.W. — R.O.W. EXIST.

155.370
155.328

SPECIAL DITCH LEFT
STA. 12+185 TO STA. 12+200.8
AT -0.90%

154.244 — 154.245

1:3 — 1:4 — 1:4 — 1:3

C=2.51 F=0.33

12+175

EXIST. R.O.W. — R.O.W. EXIST.

155.596
155.554

SPECIAL DITCH RIGHT
STA. 12+175 TO STA. 12+200.8
AT -1.05%

154.508

1:4 — 1:3

C=4.10 F=0.35

12+164.026
TR 725 E LT. & RT.

SEE DETAIL SHEET FOR SIDE ROAD PROFILE — SEE DETAIL SHEET FOR SIDE ROAD PROFILE

155.693
155.650

12+150

EXIST. R.O.W. — R.O.W. EXIST.

155.789
155.747

1.50 % — 1.50 %

1:4 — 1:4

C=6.25 F=0.19

12+125

EXIST. R.O.W. — R.O.W. EXIST.

155.952
155.910

1.50 % — 0.94 %

SPECIAL DITCH LEFT
STA. 11+990 TO STA. 12+135
AT -0.40%

SPECIAL DITCH RIGHT
STA. 11+990 TO STA. 12+135
AT -0.58%

154.254 — 154.011

1:3 — 1:4 — 1:4 — 1:3

C=2.45 F=2.27

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	176

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

STA. TO STA.

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

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℄ FAP 781 (IL. RTE. 33)

12+353
F.E. LT. & RT.

7.5 M | 2 M | 3 M | 3 M | 2 M | 8.5 M

EXIST. R.O.W.

11.74 % | 1:3 | 4.00 % | 6 % | 4.60 % | 6 % | 4.00 % | 13.57 % | 1:3

1:4

450 mm 0 — 152.079

152.994
152.957
4.60 %

450 mm 0 — 151.760

12+350

153.059
153.020
4.60 %

152.143

151.824

C=13.66 F=0.12

12+325

SPECIAL DITCH LEFT
STA. 12+274 TO STA. 12+349
AT -1.52%

SPECIAL DITCH RIGHT
STA. 12+274 TO STA. 12+349
AT -1.94%

153.572
153.530
3.17 %

152.528

152.311

C=14.91 F=1.54

12+300

PROP. R.O.W.

154.004
153.962
1.50 %
0.29 %

152.907

152.796

C=8.62 F=0.82

12+275

SPECIAL DITCH LEFT
STA. 12+274 TO STA. 12+349
AT -1.52%

SPECIAL DITCH RIGHT
STA. 12+274 TO STA. 12+349
AT -1.94%

154.413
154.371
1.50 %

153.286

153.282

C=5.55 F=0.94

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	177
FED. ROAD DIST. NO.	STA. TO STA.	ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	178
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

12+450

EXIST. R.O.W.

150.709
150.667
4.60 %
C=0.54
F=0.00
150.679

12+425

EXIST. R.O.W.

151.310
151.268
4.60 %
C=4.47
F=0.04
151.012

SPECIAL DITCH RIGHT
STA. 12+400 TO STA. 12+446
AT -2.16%

12+400

EXIST. R.O.W.

150.146
150.693
4.60 %
C=11.92
F=1.08
151.602

SPECIAL DITCH LEFT
STA. 12+400 TO STA. 12+446
AT -1.33%

12+375

EXIST. R.O.W.

151.283
151.928
151.886
4.60 %
C=13.85
F=1.12
152.517
152.475
4.60 %

1:3
1:4
1:4
1:3
1:4
1:3
1:4
1:3

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	179
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_185_xs_133_east_sht4.dgn

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HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	180
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

12+675
EXIST. R.O.W.
150.351
150.308
1:4
1:4
1:A
C=0.09
F=4.64

12+650
EXIST. R.O.W.
150.263
150.221
1:4
1:4
1:A
C=0.01
F=0.96

12+647.5
F.E. LT.
3 M
6 %
11.938 M
7.36 %
150.256
150.214
EXIST. R.O.W.

12+625
EXIST. R.O.W.
150.219
150.177
1:4
1:4
1:A
C=0.00
F=5.93
PROP. R.O.W.
EXIST. R.O.W.

12+600
EXIST. R.O.W.
150.191
150.149
1:4
1:4
1:A
1:3
C=1.76
F=5.28
PROP. R.O.W.
EXIST. R.O.W.
1.50 %
1.50 %
147.630
SPECIAL DITCH LEFT
STA. 12+500 TO STA. 12+605
AT +0.60%

℄ FAP 781 (IL. RTE. 33)

HMG JOB NO. 4420

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	181
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

12+800

12+775

12+750

12+725

12+700

℄ FAP 781 (IL. RTE. 33)

EXIST. R.O.W.

PROP. R.O.W.

1:3

1:4

153.821
153.779

152.696

F=0.92

C=34.20

152.758
152.716

151.633

F=1.69

C=18.32

151.740
151.698

150.615

F=1.37

C=8.23

SPECIAL DITCH RIGHT
STA. 12+700 TO STA. 12+737.5
AT +1.20%

151.016
150.974

150.102

F=1.01

C=4.38

150.572
150.530

149.802

F=2.35

C=0.03

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

HMG JOB NO. 4420

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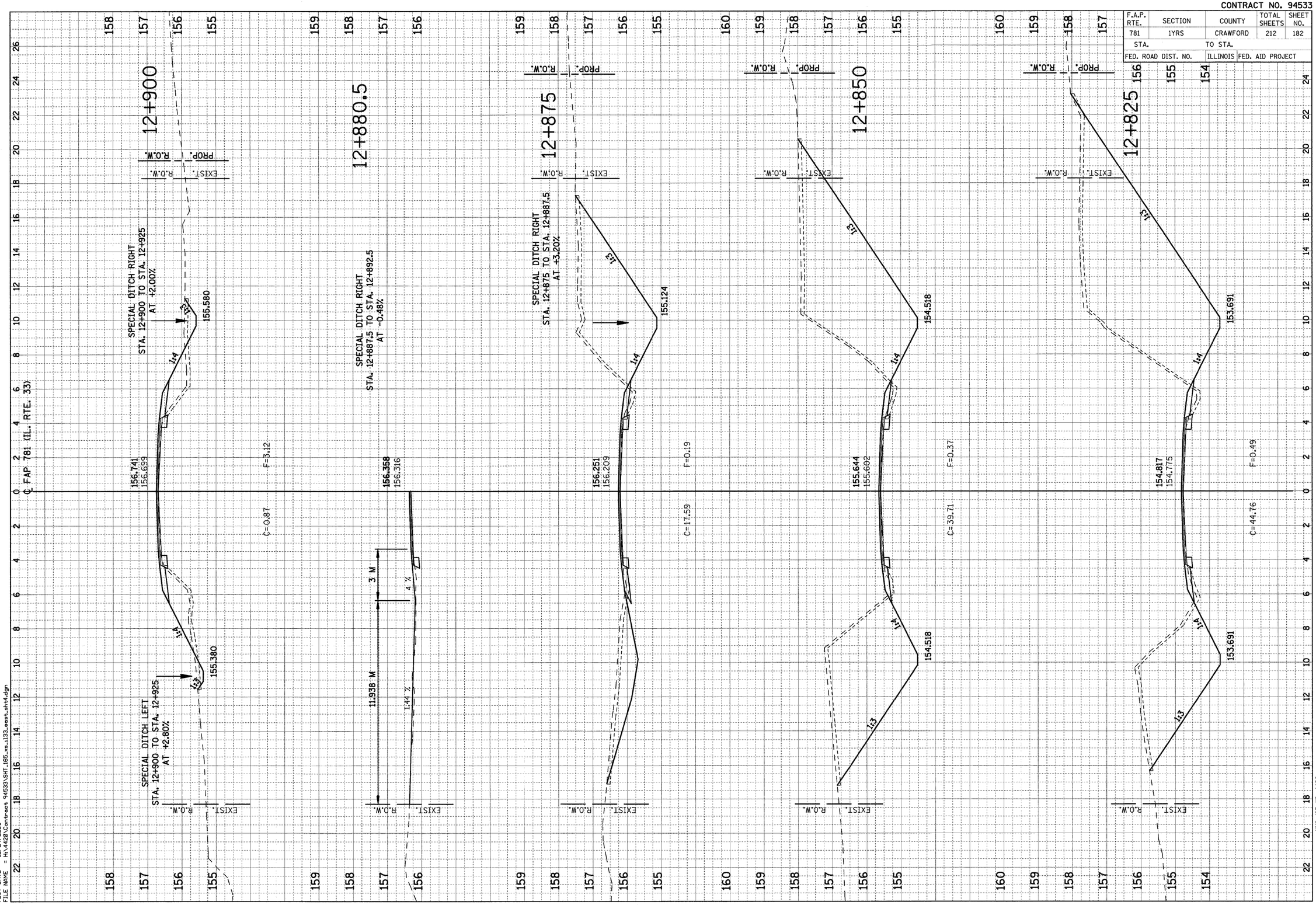
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	182
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_133_east_sht4.dgn



HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = Hs\4420\Contract 94533\SHT_165_xs_133_east_sht4.dgn

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℄ FAP 781 (IL. RTE. 33)

13+025

158.901
158.859
157.776
157.776
C=11.42 F=0.92

13+000

158.465
158.423
157.340
157.340
C=9.20 F=0.84

12+991 P.E. LT.

11.938 M
3 M
2.34 %
4 %
158.304
158.262
450 mm
157.181

12+975

158.037
157.995
156.911
156.911
C=6.94 F=1.23

12+950

157.626
157.584
156.500
156.500
C=5.71 F=1.67

12+925

157.206
157.164
156.080
156.080
C=4.34 F=2.00

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	183
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STA. TO STA.

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	184
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_133_east_sht4.dgn

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HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	185
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_I65_xs_i133_east_sht4.dgn

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HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	186
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4428\Contract 94533\SHT_185_xs_1133_east_sht4.dgn

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HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

℄ FAP 781 (IL. RTE. 33)

13+391.693
TR 800 E LT. & RT.

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

162.038
161.877

1.5 %

1.5 %

13+375

SPECIAL DITCH LEFT
STA. 13+315 TO STA. 13+375
AT -0.30%

5.95 M

4 %

4 %

R.O.W.

1.5 %

1.5 %

4 %

SPECIAL DITCH RIGHT
STA. 13+300 TO STA. 13+375
AT -0.46%

R.O.W.

1:3

1:4

1:4

1:3

162.105
161.468

161.274

161.154

EXIST.

EXIST.

C=5.71 F=3.60

13+350

R.O.W.

PROP.

5.95 M

4 %

4 %

R.O.W.

1.5 %

1.5 %

4 %

R.O.W.

1:3

1:4

1:4

1:3

162.205
161.337

161.349

161.269

EXIST.

EXIST.

C=4.71 F=4.56

13+328.5
C.E. LT.

R.O.W.

PROP.

11.938 M

3 M

5.95 M

0.39 %

4 %

4 %

R.O.W.

1.5 %

1:3

375 mm

1:4

162.291
162.032

161.413

EXIST.

13+325

R.O.W.

PROP.

5.95 M

4 %

R.O.W.

1.5 %

1.5 %

4 %

R.O.W.

1:3

1:4

1:4

1:3

162.327
161.998

161.424

161.384

EXIST.

EXIST.

C=5.24 F=2.94

13+300

SPECIAL DITCH LEFT
STA. 13+300 TO STA. 13+375
AT -0.30%

R.O.W.

PROP.

5.95 M

4 %

4 %

R.O.W.

1.5 %

1.5 %

4 %

SPECIAL DITCH RIGHT
STA. 13+300 TO STA. 13+375
AT -0.46%

R.O.W.

1:3

1:4

1:4

1:3

162.368
162.234

161.499

161.499

EXIST.

EXIST.

SPECIAL DITCH RIGHT
STA. 13+250 TO STA. 13+300
AT +0.75%

C=5.39 F=1.83

13+290
P.E. LT.

R.O.W.

PROP.

11.94 M

3 M

4 %

4 %

R.O.W.

1.5 %

162.369
162.280

EXIST.

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	187
FED. ROAD DIST. NO.	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	188
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_ll33_east_sht4.dgn

13+500 R.O.W. PROP. EXIST. R.O.W. 160.630 1:3 1:4 4 % 4 % 160.630 1:3 1:4 4 % 4 % 161.605 161.314 1.5 % 1.5 % Ç=8.25 F=1.06

13+490.5 P.E. RT. R.O.W. PROP. EXIST. R.O.W. 11.938 M 3 M 1.65 % 4 % 4 % 1:3 1:4 375 mm 160.685 161.643 161.421 1.5 % 1.5 %

13+480 F.E. LT.

EXIST. BUILDING

13+475 R.O.W. PROP. EXIST. R.O.W. 160.775 1:3 1:4 4 % 4 % 160.775 1:3 1:4 4 % 4 % 161.685 161.548 1.5 % 1.5 % 3 M 11.938 M 0.74 % 4 % 4 % 1:3 1:4 450 mm 160.746 161.705 161.611 1.5 % 1.5 % F=0.40 Ç=7.49

13+450 R.O.W. PROP. EXIST. R.O.W. 160.920 1:3 1:4 4 % 4 % 160.920 1:3 1:4 4 % 4 % 161.805 161.860 1.5 % 1.5 % F=0.18 Ç=7.26

13+425 R.O.W. PROP. EXIST. R.O.W. SPECIAL DITCH RIGHT STA. 13+410 TO STA. 13+625 AT -0.58% 161.065 1:3 1:4 4 % 4 % 161.065 1:3 1:4 4 % 4 % 161.905 161.806 1.5 % 1.5 % F=0.48 Ç=5.94 SPECIAL DITCH LEFT STA. 13+410 TO STA. 13+625 AT -0.58%

13+400 R.O.W. PROP. EXIST. R.O.W. 162.005 161.794 1.5 % 1.5 % F=1.40 Ç=3.84

Ç FAP 781 (IL. RTE. 33)

HMG JOB NO. 4420

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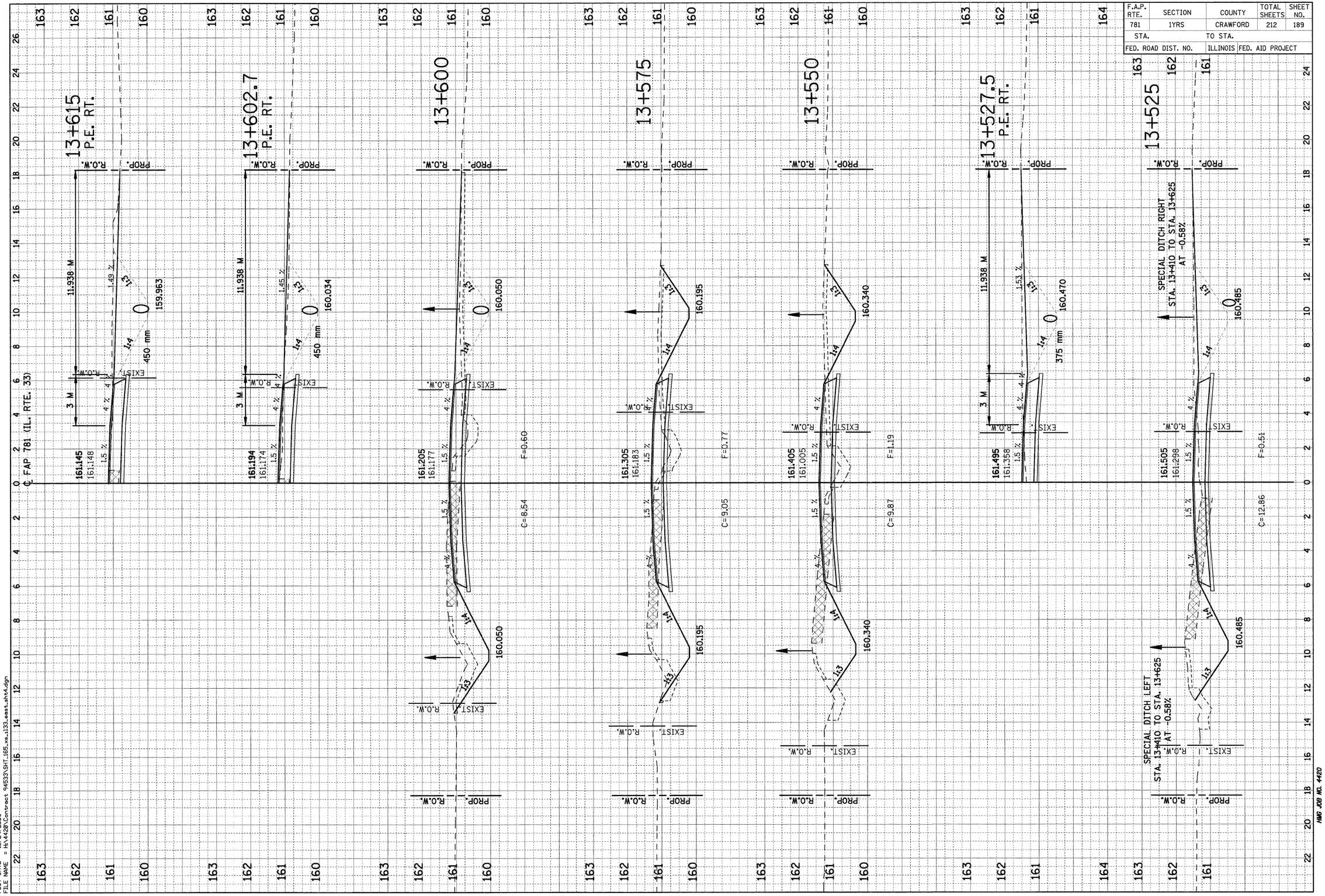
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	189
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn



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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

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℄ FAP 781 (IL. RTE. 33)

13+725

161.236
161.200

159.728

C=20.97 F=1.39

159.534

13+700

161.124
161.132

159.602

C=18.04 F=2.01

159.343

13+675

SPECIAL DITCH LEFT
STA. 13+665 TO STA. 13+800
AT +0.50%

161.033
161.076

159.475

SPECIAL DITCH RIGHT
STA. 13+665 TO STA. 13+800
AT +0.76%

159.151

C=15.92 F=1.69

13+672 C.E. RT.

3 M
11.938 M
161.027
161.068
2.50 %
600 mm
159.128

13+650

SPECIAL DITCH LEFT
STA. 13+625 TO STA. 13+655
AT -1.20%

161.026
161.058

159.605

SPECIAL DITCH RIGHT
STA. 13+625 TO STA. 13+655
AT -2.50%

159.280

C=7.93 F=2.63

13+625

SPECIAL DITCH LEFT
STA. 13+410 TO STA. 13+625
AT -0.58%

161.105
161.107

159.905

SPECIAL DITCH RIGHT
STA. 13+410 TO STA. 13+625
AT -0.58%

159.905

C=10.13 F=0.59

R.O.W. PROP. EXIST. TEMP. EASEMENT 1:3 1:4 4 % 1.5 %

HMG JOB NO. 4420

FED. ROAD DIST. NO.	STA.	F.A.P. RTE.
ILLINOIS FED. AID PROJECT	TO STA.	781
		SECTION
		1YRS
		COUNTY
		CRAWFORD
		TOTAL SHEETS
		212
		SHEET NO.
		190

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_1133_east_sht4.dgn

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

℄ FAP 781 (IL. RTE. 33)

13+803.8 P.E. LT.

11.938 M | 3 M | 1.00 % | 4 % | 1:3 | 1:4 | R.O.W. | PROP. | EXIST. | 750 mm | 161.637 | 161.595 | 160.111

13+802.8 P.E. RT.

3 M | 11.938 M | 4 % | 2.13 % | 1:4 | 1:3 | R.O.W. | EXIST. | PROP. | 600 mm | 161.632 | 161.590 | 160.108

13+800

SPECIAL DITCH LEFT
STA. 13+665 TO STA. 13+800
AT +0.50%

SPECIAL DITCH RIGHT
STA. 13+665 TO STA. 13+800
AT +0.76%

1:3 | 1:4 | R.O.W. | PROP. | EXIST. | 161.618 | 161.576 | 160.100 | 160.100

C=15.35 F=0.88

13+775

1:3 | 1:4 | R.O.W. | PROP. | EXIST. | 161.501 | 161.459 | 159.974 | 159.908

C=16.21 F=1.21

13+750.4 P.E. RT.

3 M | 11.938 M | 1.5 % | 4 % | 4 % | 2.37 % | 1:4 | 1:3 | R.O.W. | EXIST. | PROP. | 600 mm | 161.351 | 161.308 | 159.729

13+750

1:3 | 1:4 | R.O.W. | PROP. | EXIST. | 4 % | 1.5 % | 1.5 % | 4 % | 161.349 | 161.306 | 159.854 | 159.726

C=23.00 F=0.00

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	191
FED. ROAD DIST. NO.		TO STA.		
STA.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	192
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_185_xs_1133_east_sht4.dgn

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HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	193
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_165_xs_133_east_sht4.dgn

14+075
14+050
14+025
14+000
13+981.3
F.E. L.T.
13+975

℄ FAP 781 (IL. RTE. 33)

SPECIAL DITCH RIGHT
STA. 13+800 TO STA. 14+300
AT +0.30%

SPECIAL DITCH LEFT
STA. 13+800 TO STA. 14+295
AT +0.30%

	14+075	14+050	14+025	14+000	13+975
C=	10.66	12.33	13.06	13.69	13.96
F=	0.64	1.30	1.17	1.15	1.14
	162.484	162.475	162.418	162.337	162.259
	162.442	162.433	162.376	162.295	162.217
	160.925	160.850	160.775	160.700	160.625

R.O.W. — PROP. — EXIST. — 1:3 — 1:4

13+981.3 F.E. L.T.: 3 M; 6 %; 11.938 M; 4.82 %; 1:3; 600 mm; 160.644

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HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	194
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = Hk\4428\Contract 94533\SHT_165_xs_1133_east_sht14.dgn

HMG JOB NO. 4420

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CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	195
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_I33_east_sht5.dgn

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HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	196
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

14+425
14+400
14+375
14+350
14+325
14+308.9 C.E. LT.
14+300

℄ FAP 781 (IL. RTE. 33)

SPECIAL DITCH RIGHT
STA. 14+300 TO STA. 14+740
AT -0.30%

SPECIAL DITCH LEFT
STA. 14+320 TO STA. 14+740
AT -0.30%

R.O.W. PROP. EXIST.

162.441 162.399 F=2.11
162.433 162.391 F=2.17
162.389 162.347 F=2.26
162.346 162.304 F=2.13
162.312 162.270 F=1.99
162.296 162.254
162.299 162.257 F=1.67

161.225
161.300
161.375
161.450
161.525
161.600

1:4 1:3 1:2

C=5.29
C=3.46
C=1.67
C=0.81
C=0.39
C=1.37

3 M
4 %
11.938 M
0.86 %

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_196_xs133_east_sht5.dgn

HMG JOB NO. 4420

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	197
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_1133_east_sht5.dgn

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_1133_east_sht5.dgn

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

℄ FAP 781 (IL. RTE. 33)

14+625

SPECIAL DITCH LEFT
STA. 14+320 TO STA. 14+740
AT -0.30%

SPECIAL DITCH RIGHT
STA. 14+300 TO STA. 14+740
AT -0.30%

162.023
161.981

160.625 (left) | 160.625 (right)

C=9.73 F=0.93

14+600.8 P.E. LT.

11.938 M | 3 M
1.15 % | 4 %
900 mm
162.139
162.097
160.698

14+600

162.143
162.101
160.700 (left) | 160.700 (right)

C=11.65 F=1.01

14+575

162.251
162.209
160.775 (left) | 160.775 (right)

C=10.58 F=2.33

14+553.8 P.E. LT.

11.938 M | 3 M
0.02 % | 4 %
750 mm
162.323
162.281
160.839

14+550

162.336
162.294
160.850 (left) | 160.850 (right)

C=10.51 F=2.49

R.O.W. | EXIST. | PROP. | 1:3 | 1:4

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	198
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
STA.	TO STA.			

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	199
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

℄ FAP 781 (IL. RTE. 33)

14+675

PROP. R.O.W. EXIST. R.O.W.
1:3
1:4
160.475
161.773
161.731
F=1.58
℄=7.74

14+664.8
P.E. RT.

PROP. R.O.W. EXIST. R.O.W.
11.938 M
3 M
4 %
1.85 %
1:3
1:4
0 450 mm
160.506
161.819
161.777
160.475
1:3
1:4
1.78 %
0 900 mm
160.522

14+659.3
P.E. LT.

161.842
161.800

14+650

PROP. R.O.W. EXIST. R.O.W.
SPECIAL DITCH RIGHT
STA. 14+300 TO STA. 14+740
AT -0.30%
1:3
1:4
160.550
161.890
161.848
F=1.63
℄=7.51
SPECIAL DITCH LEFT
STA. 14+320 TO STA. 14+740
AT -0.30%
160.550

14+630.3
C.E. LT.

161.997
161.955

14+629.9
P.E. RT.

PROP. R.O.W. EXIST. R.O.W.
11.938 M
3 M
4 %
0.43 %
1:3
1:4
0 450 mm
160.610
161.999
161.957
11.938 M
3 M
4 %
1.45 %
0 900 mm
160.609

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_133_east_sht5.dgn

HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_133_east_sht5.dgn

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℄ FAP 781 (IL. RTE. 33)

14+750

SPECIAL DITCH LEFT
STA. 14+740 TO STA. 14+796
AT -0.97%

SPECIAL DITCH RIGHT
STA. 14+740 TO STA. 14+792
AT -0.97%

R.O.W. | EXIST. | 1:3 | 1:4 | 160.183 | 161.660 | 161.618 | 160.183 | 1:4 | 1:3 | EXIST. | R.O.W.

C=4.76 F=1.65

14+725.8 R 2
P.E. RT.

3 M | 11.938 M | R.O.W. | 161.626 | 161.584 | 4 % | 0.38 % | 1:4 | EXIST. | 600 mm | 1:3 | PROP. | R.O.W. | 160.323

14+725

SPECIAL DITCH LEFT
STA. 14+320 TO STA. 14+740
AT -0.30%

SPECIAL DITCH RIGHT
STA. 14+300 TO STA. 14+740
AT -0.30%

R.O.W. | EXIST. | 1:3 | 1:4 | 160.325 | 161.627 | 161.585 | R.O.W. | 1:4 | EXIST. | 1:3 | PROP. | R.O.W. | 160.325

C=6.74 F=1.74

14+711.6
C.E. LT.

11.938 M | 3 M | R.O.W. | 161.647 | 161.605 | 0.15 % | 4 % | EXIST. | 1:3 | 1:4 | 900 mm | 160.365

14+700

R.O.W. | EXIST. | 1:3 | 1:4 | 160.400 | 161.664 | 161.622 | R.O.W. | 1:4 | EXIST. | 1:3 | PROP. | R.O.W. | 160.400

C=8.69 F=1.51

14+696.8
P.E. RT.

3 M | 11.938 M | R.O.W. | 161.675 | 161.633 | 4 % | 1.49 % | 1:4 | EXIST. | 525 mm | 1:3 | PROP. | R.O.W. | 160.410

HMG JOB NO. 4420

F.A.P. RTE.	STA.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781		1YRS	CRAWFORD	212	200
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_1133_east_sht5.dgn

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℄ FAP 781 (IL. RTE. 33)

14+803.3 P.E. LT.

11.938 M | 3 M | 4 % | 3.88 % | R.O.W. | EXIST.

161.707
161.665

14+800

161.712
161.670

1:3 | 1:4 | R.O.W. | EXIST.

C= 6.74 F= 0.15

14+775

SPECIAL DITCH LEFT
STA. 14+740 TO STA. 14+796
AT -0.97%

SPECIAL DITCH RIGHT
STA. 14+740 TO STA. 14+792
AT -0.97%

161.707
161.665

159.941 | 159.940

C= 8.64 F= 0.23

14+770.8 P.E. LT.

11.938 M | 3 M | 4 % | 0.59 % | R.O.W. | EXIST.

161.699
161.657

1:3 | 1:4 | 1050 mm | 159.981

14+763.3 P.E. RT.

3 M | 11.938 M | 4 % | 3.53 % | R.O.W. | EXIST.

161.685
161.643

1:4 | 1:3 | 600 mm | 160.054

14+756 P.E. LT.

11.938 M | 3 M | 4 % | 1.14 % | R.O.W. | EXIST.

161.672
161.630

1:3 | 1:4 | 1050 mm | 160.117

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1TRS	CRAWFORD	212	201
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
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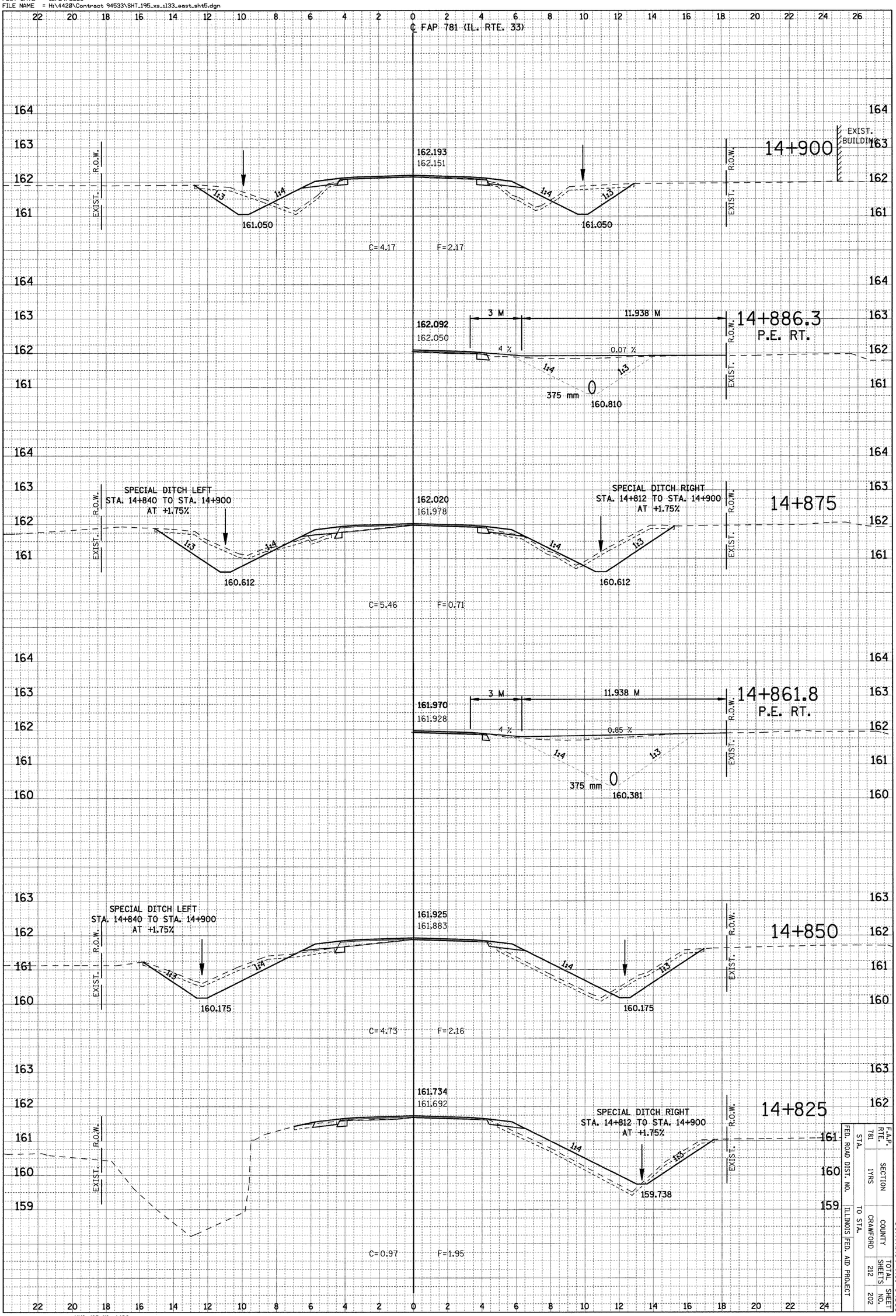

HMG JOB NO. 4420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	202
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	203
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_1133_east_sht5.dgn

C FAP 781 (IL. RTE. 33)

15+025
SPECIAL DITCH RIGHT
STA. 14+900 TO STA. 15+045
AT +0.66%
R.O.W.
EXIST.
1:3
1:4
161.875
162.839
162.797
C=4.06
F=1.52

15+000
R.O.W.
EXIST.
1:3
1:4
161.710
162.769
162.727
C=3.90
F=0.94

14+981.9
P.E. LT.
3 M
4 %
11.938 M
0.56 %
375 mm
161.597
R.O.W.
EXIST.
1:3
1:4
161.545
162.692
162.650
C=2.67
F=1.66

14+975
R.O.W.
EXIST.
1:3
1:4
161.545
162.662
162.620

14+950
R.O.W.
EXIST.
1:3
1:4
161.380
162.519
162.477
C=3.09
F=2.06

14+926.3
P.E. LT. & F.E. RT.
R.O.W.
EXIST.
3 M
6 %
11.938 M
1.77 %
1:3
1:4
375 mm
161.224
162.370
162.328

14+925
R.O.W.
EXIST.
SPECIAL DITCH RIGHT
STA. 14+900 TO STA. 15+045
AT +0.66%
1:3
1:4
161.215
162.361
162.319
C=8.15
F=0.07

15+025
R.O.W.
PROP.
EXIST.
SPECIAL DITCH LEFT
STA. 14+900 TO STA. 15+045
AT +0.66%
1:3
1:4
161.875
162.839
162.797

15+000
R.O.W.
EXIST.
1:3
1:4
161.710
162.769
162.727

14+981.9
P.E. LT.
3 M
4 %
11.938 M
0.56 %
375 mm
161.597
R.O.W.
EXIST.
1:3
1:4
161.545
162.692
162.650

14+975
R.O.W.
EXIST.
1:3
1:4
161.545
162.662
162.620

14+950
R.O.W.
EXIST.
1:3
1:4
161.380
162.519
162.477

14+926.3
P.E. LT. & F.E. RT.
R.O.W.
EXIST.
3 M
4 %
11.938 M
0.12 %
1:3
1:4
450 mm
161.224
162.370
162.328

14+925
R.O.W.
EXIST.
SPECIAL DITCH LEFT
STA. 14+900 TO STA. 15+045
AT +0.66%
1:3
1:4
161.215
162.361
162.319

EXISTING BUILDING

HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
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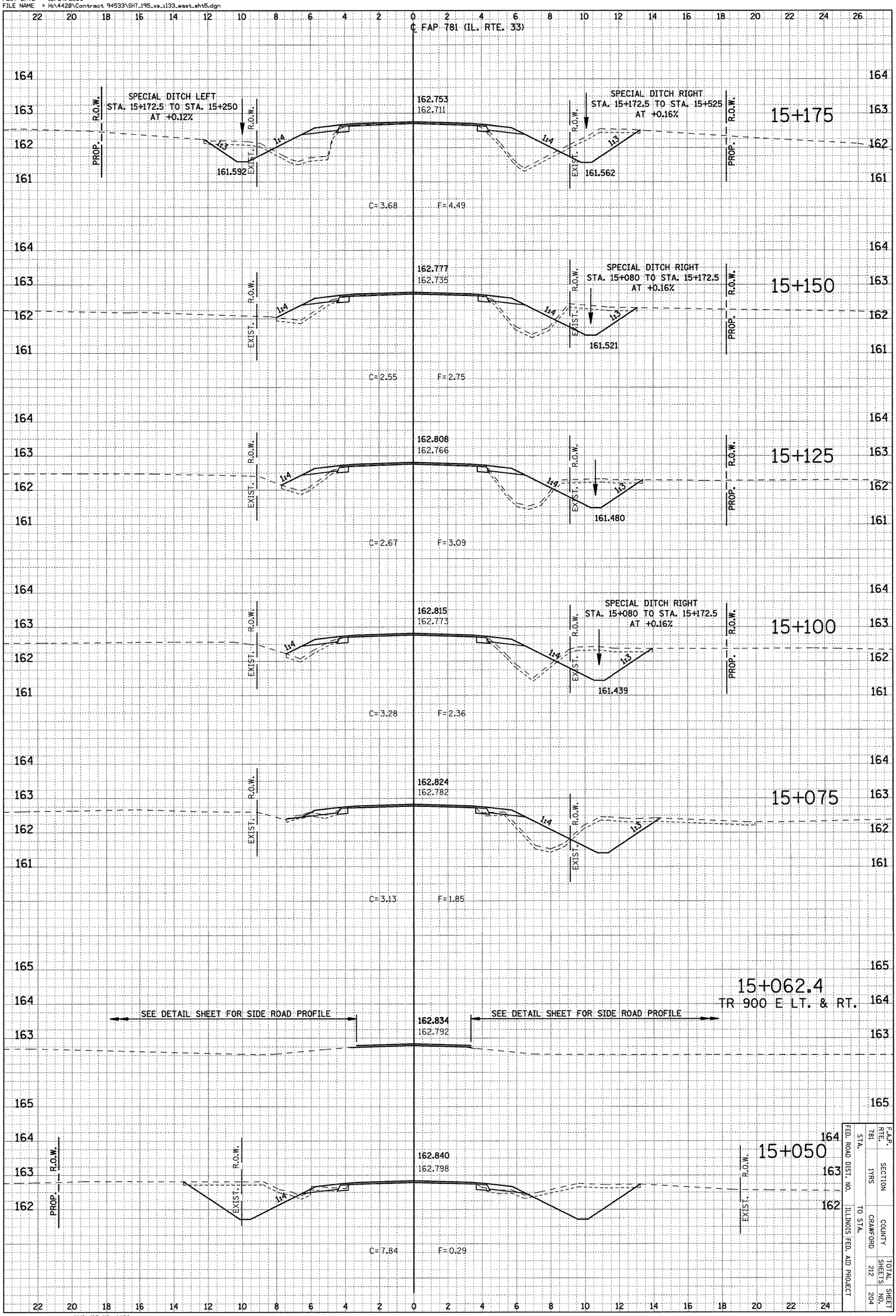

HMG JOB NO. 4420

FED. ROAD DIST. NO.	STA.	F.A.P. RTE.
ILLINOIS FED. AID PROJECT	TO STA.	SECTION 1YRS
		COUNTY CRAWFORD
		TOTAL SHEETS 212
		SHEET NO. 204

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_1133_east_sht5.dgn

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℄ FAP 781 (IL. RTE. 33)

15+321 R 2
C.E. LT.

11.938 M | 3 M | 0.63 % | 4 % | 1:3 | 1:4 | 600 MM EQUIV. RND. SIZE | 161.794 | 162.722 | 162.680

15+300

162.690 | 162.648 | 161.762 | 161.762

C=2.58 F=1.90

15+275

SPECIAL DITCH LEFT
STA. 15+250 TO STA. 15+525
AT +0.16%

162.672 | 162.630 | 161.722 | 161.722

C=2.51 F=2.29

15+250

SPECIAL DITCH LEFT
STA. 15+172.5 TO STA. 15+250
AT +0.12%

SPECIAL DITCH RIGHT
STA. 15+172.5 TO STA. 15+525
AT +0.16%

162.635 | 162.593 | 161.682 | 161.682

C=2.56 F=1.94

15+232.3
C.E. LT.

11.938 M | 3 M | 2.15 % | 4 % | 675 MM EQUIV. RND. SIZE | 161.661 | 162.634 | 162.592

15+225

162.667 | 162.625 | 161.652 | 161.642

C=3.47 F=2.01

15+200

162.743 | 162.701 | 161.622 | 161.602

C=3.97 F=2.65

R.O.W. | PROP. | EXIST. | 1:3 | 1:4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	205

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

CONTRACT NO. 94533

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	206
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = N:\4420\Contract 94533\SHT_195_xs_133_east_sht5.dgn

℄ FAP 781 (IL. RTE. 33)

15+450
SPECIAL DITCH RIGHT
STA. 15+172.5 TO STA. 15+525
AT +0.16%
R.O.W. PROP. EXIST.
162.948 162.906 162.002
F=0.58
C=7.61

15+425
R.O.W. PROP. EXIST.
162.897 162.855 161.962
F=1.09
C=4.72

15+400
R.O.W. PROP. EXIST.
162.827 162.785 161.922
F=1.33
C=3.26

15+375
R.O.W. PROP. EXIST.
162.780 162.738 161.882
F=1.25
C=3.06

15+353.8
C.E. LT.
R.O.W. PROP. EXIST.
162.758 162.716
11.29 M
1.44 %
3 M
4 %
600 mm
161.848

15+350
SPECIAL DITCH RIGHT
STA. 15+172.5 TO STA. 15+525
AT +0.16%
R.O.W. PROP. EXIST.
162.755 162.713 161.842
F=0.89
C=4.09

15+325
R.O.W. PROP. EXIST.
162.729 162.687 161.802
F=0.95
C=4.32

SPECIAL DITCH LEFT
STA. 15+250 TO STA. 15+525
AT +0.16%

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	207
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_i133_east_sht5.dgn

HMG JOB NO. 4420

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

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

PLOT DATE = 12/29/2008
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℄ FAP 781 (IL. RTE. 33)

15+660.8 C.E. LT.

8.89 M | 3 M
1.88 % | 4 %
1:3 | 1:4
450 mm Ø
R.O.W. | EXIST. | PROP.
164.044
164.002
162.918

15+650

163.978
163.936
162.852 | 162.852
C=5.76 F=0.64

15+625

163.828
163.786
162.702 | 162.702
C=6.28 F=1.07

15+600

163.679
163.637
162.553 | 162.553
C=5.86 F=1.04

15+595.8 P.E. LT.

11.938 M | 3 M
2.21 % | 4 %
1:3 | 1:4
450 mm Ø
163.650
163.608
162.524

15+575

EXIST. BUILDING
163.507
163.466
162.381 | 162.381
C=6.31 F=1.20

15+550

163.370
163.328
162.245 | 162.245
C=7.16 F=1.42

HMG JOB NO. 4420

F.A.P. RTE.	SECTION		SHEET NO.
781	1TRS	COUNTY CRAWFORD	TOTAL SHEETS 212
STA.			NO. 208
TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

CONTRACT NO. 94533

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_1133_east_sht5.dgn

HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)-594-3711 WWW.HMGENGINEERS.COM

℄ FAP 781 (IL. RTE. 33)

15+773.3 R 2
GLENDALE RD. RT.

164.605
164.563

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

15+750

164.543
164.501

R.O.W. PROP. EXIST. 1:3 1:4 163.674 163.411

C=6.15 F=0.59

15+725

164.435
164.393

R.O.W. PROP. EXIST. 1:3 1:4 163.425 163.309

C=8.15 F=0.29

15+723.1
P.E. RT.

164.427
164.385

3 M 11.938 M 4 % 0.40 % 1:4 1:3 375 mm EXIST. 163.298

SPECIAL DITCH LEFT
STA. 15+700 TO STA. 15+780
AT +1.00%

15+700

164.302
164.260

R.O.W. PROP. EXIST. 1:3 1:4 163.176 163.176

C=6.28 F=0.90

15+675

164.143
164.101

R.O.W. PROP. EXIST. 1:3 1:4 163.017 163.017

C=5.98 F=0.79

15+661.3
PASADENA RD. RT.

164.047
164.005

SEE DETAIL SHEET FOR SIDE ROAD PROFILE

HMG JOB NO. 4420

FED. ROAD DIST. NO.	STATE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILLINOIS FED. AID PROJECT		781	1YRS	CRAWFORD	212	209
	STA. TO STA.					

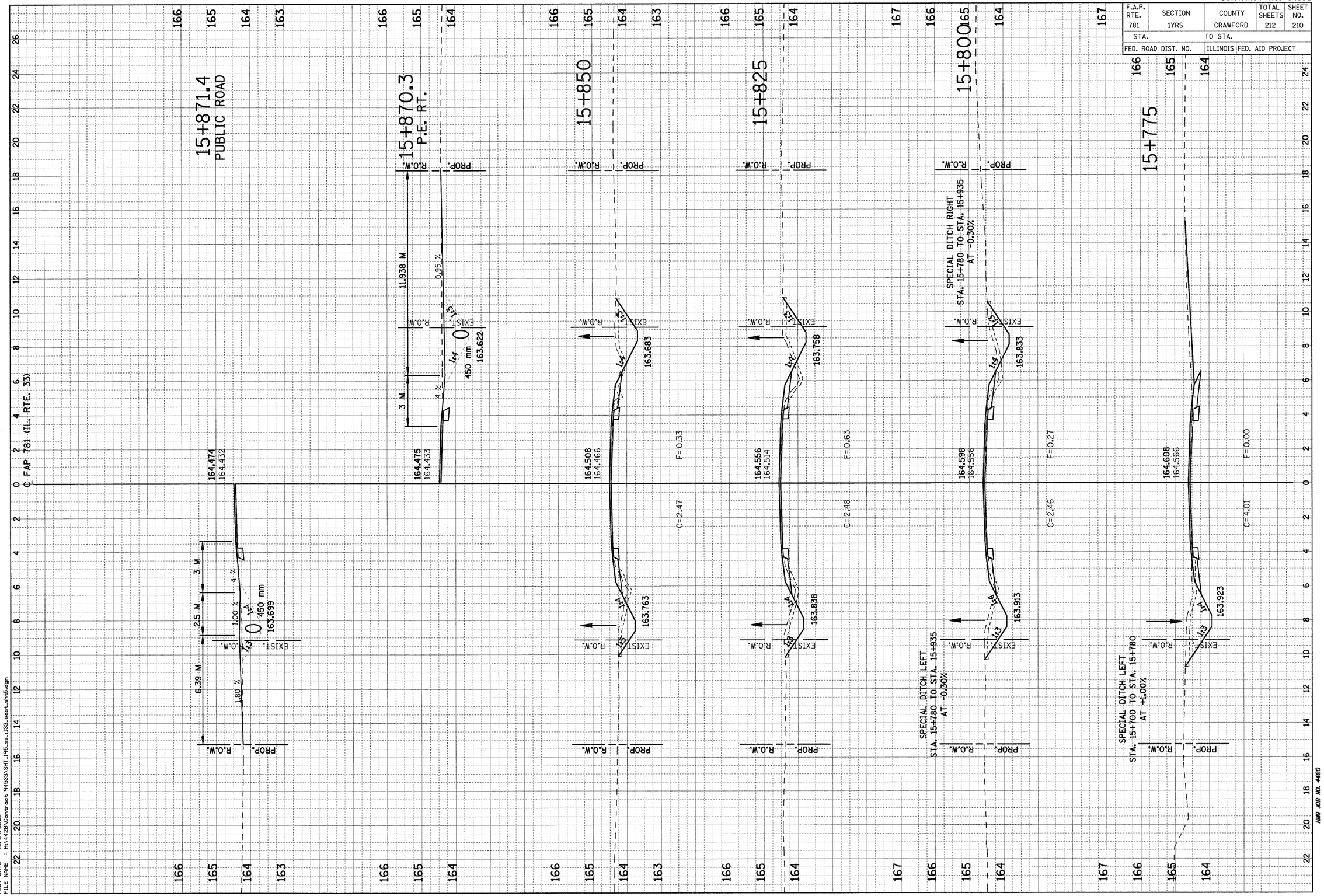
CONTRACT NO. 94533

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	210
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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



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HENRY, MEISENHEIMER & GENDE, INC., 1075 LAKE RD., P.O. BOX 70, CARLYLE, ILLINOIS 62231 (618)–594–3711 WWW.HMGENGINEERS.COM

HMG JOB NO. 4420

CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	211
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

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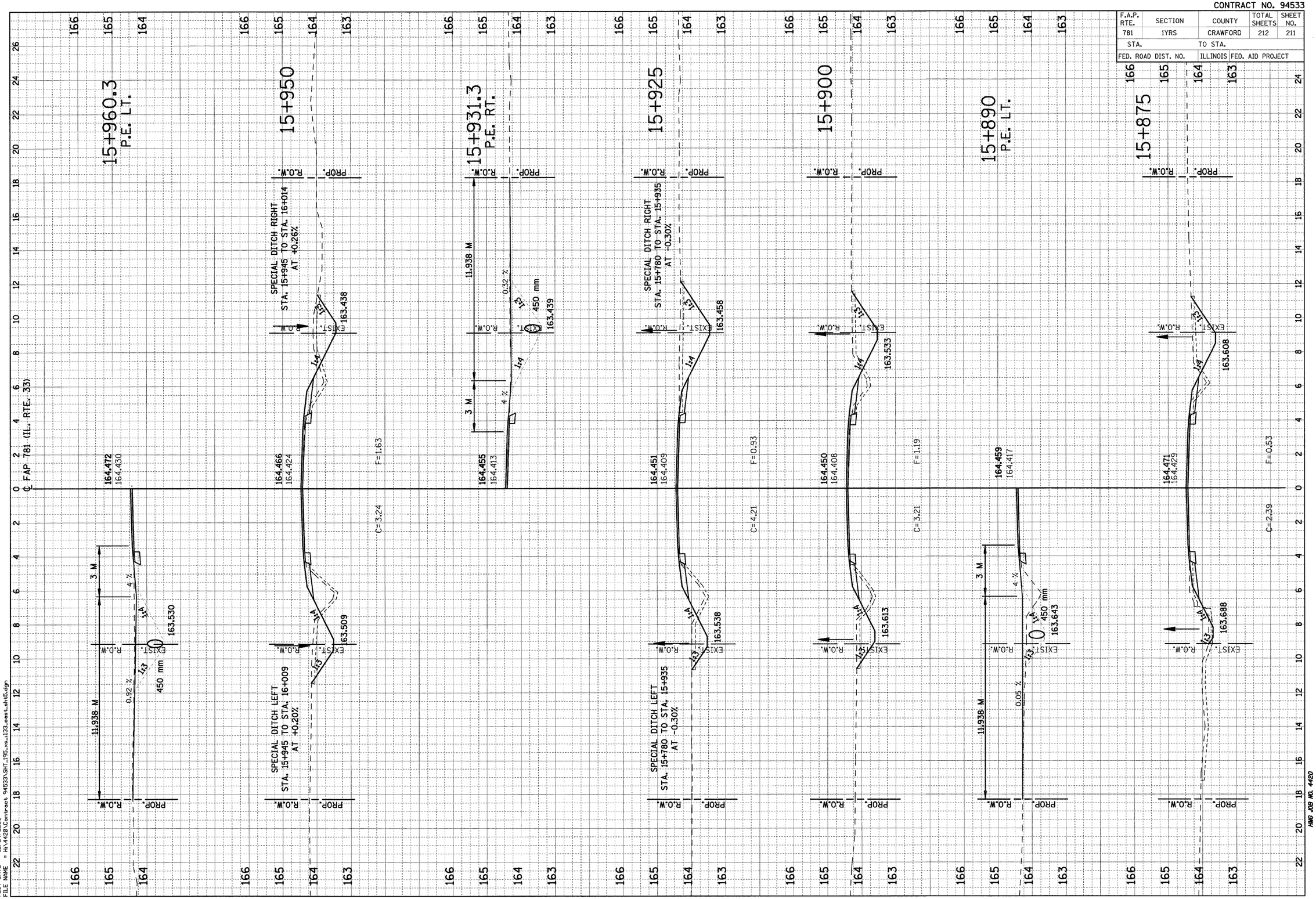


HMG JOB NO. 4420

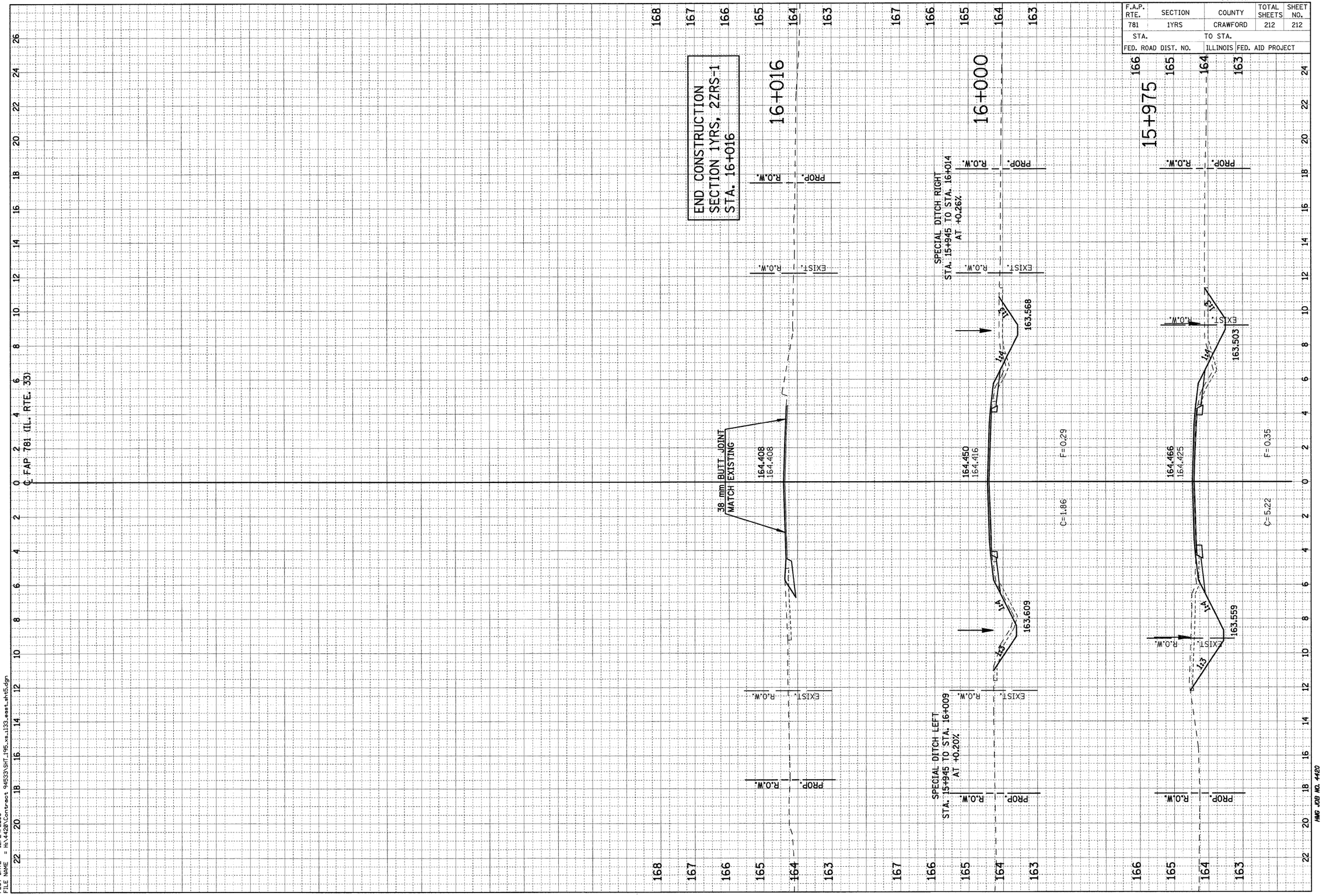
CONTRACT NO. 94533

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	212
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = 12/29/2008
FILE NAME = H:\4420\Contract 94533\SHT_195_xs_1133_east_sht5.dgn



HMG JOB NO. 4420