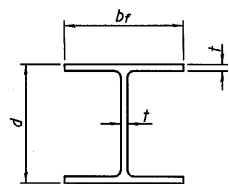
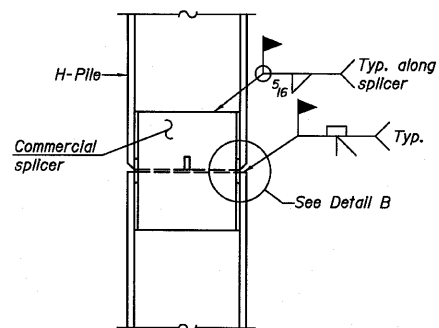


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

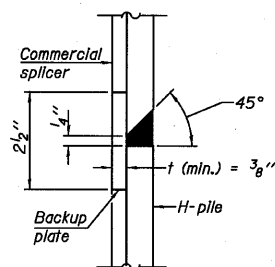


STEEL PILE TABLE

Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 1/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/2"	7/16"	18"

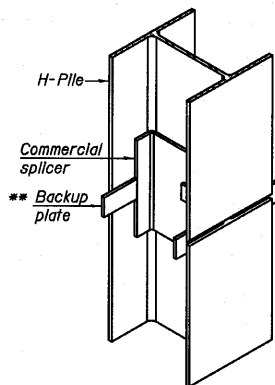


ELEVATION

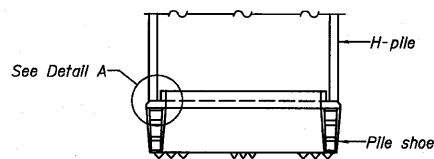


DETAIL "B"

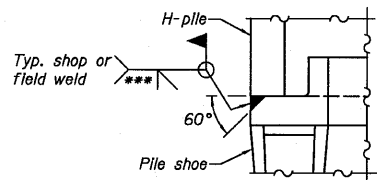
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

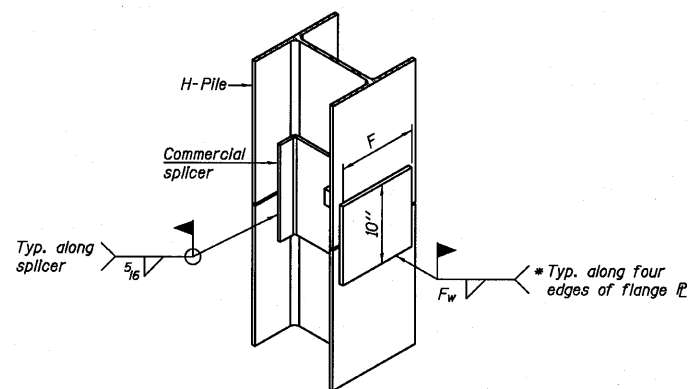


ELEVATION



DETAIL A

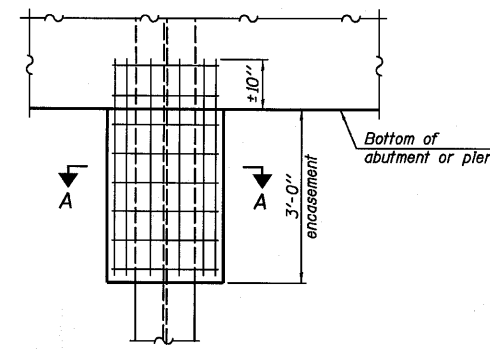
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

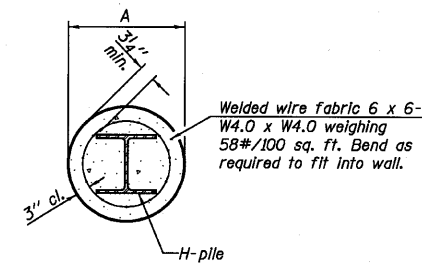
WELDED COMMERCIAL SPLICE ALTERNATE

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



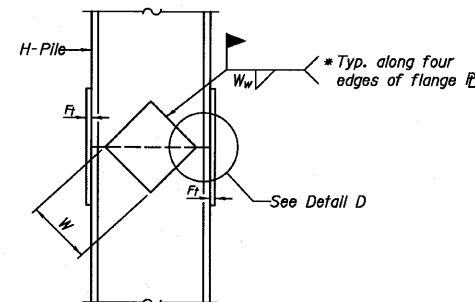
ELEVATION

PILE ENCASEMENT

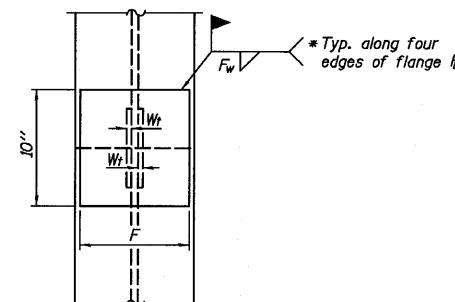


SECTION A-A

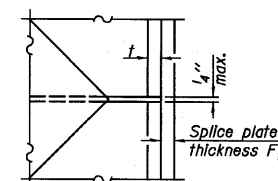
Note:  
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 8"	1/2"
x89	12 1/2"	3/4"	1/6"	7 3/4"	5 8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 8"	1/2"
HP 12x84	10"	7/8"	1/6"	6 1/2"	5 8"	1/2"
x74	10"	7/8"	1/6"	6 1/2"	5 8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

DESIGNED SDH
CHECKED JML
DRAWN JWK/DJM
CHECKED MSW

DATE 08/04/10

F-HP

7-1-10

HP PILE DETAILS  
STRUCTURE NO. Q27-0098

Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. E16	F.A.P. RTE. 681	SECTION *	COUNTY FORD/IROQUOIS	TOTAL SHEETS 146	SHEET NO. 101
	18 SHEETS	CONTRACT NO. 66880				
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* 116 BR/[116 BR, (BR-2)BR, I & BR-3]

24-8271

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



Illinois Department  
of Transportation  
Division of Highways  
District #3, Ottawa

SOIL BORING LOG

Page 1 of 2

Date 3/6/09

ROUTE SBI-116 (IL 116) DESCRIPTION IL 116 over Drain Ditch 3.3 MI E of IL 115 LOGGED BY LM  
SECTION 116-BR-2 LOCATION North 1/2, SEC. 25, TWP. 28 N, RNG. 9 E, 3<sup>rd</sup> PM  
COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	BORING NO. Station	DEPTH (ft)	BULGE (ft)	SHEAR (tsf)	PENETROMETER (%)	DESCRIPTION	DEPTH (ft)	BULGE (ft)	SHEAR (tsf)	PENETROMETER (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
											ft	ft	ft	ft	ft	Hrs.
027-0046 (Exist.) 174+58.04	1 (West Abut.) 173+82.04	660.08				Augered white shoulder stone, Black Silty Clay Topsoil Fill	3				640.77	639.15	648.1			
		657.58				Very Stiff Black Silty Clay Loam topsoil Fill	4	3.75	21.7							
		653.08				Stiff Gray & Brown Clay Loam with Fine Sand/Silt seams	2	1.5	22.4							
		648.08				Very Stiff Brown Layers of Fine Sand, Silt, & Clay	2	2.0	21.8							
		645.58				Stiff to Very Stiff Gray Silty Clay Loam Till	1	2.1	18.9							
						Hard Gray Silty Clay Loam Till with pockets of Silty Loam Till	2									
							3	2.3	15.9							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



Illinois Department  
of Transportation  
Division of Highways  
District #3, Ottawa

SOIL BORING LOG

Page 2 of 2

Date 3/6/09

ROUTE SBI-116 (IL 116) DESCRIPTION IL 116 over Drain Ditch 3.3 MI E of IL 115 LOGGED BY LM  
SECTION 116-BR-2 LOCATION North 1/2, SEC. 25, TWP. 28 N, RNG. 9 E, 3<sup>rd</sup> PM  
COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	BORING NO. Station	DEPTH (ft)	BULGE (ft)	SHEAR (tsf)	PENETROMETER (%)	DESCRIPTION	DEPTH (ft)	BULGE (ft)	SHEAR (tsf)	PENETROMETER (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
											ft	ft	ft	ft	ft	Hrs.
027-0046 (Exist.) 174+58.04	1 (West Abut.) 173+82.04	660.08				Hard Gray Silty Clay Loam Till with pockets of Silty Loam Till (continued)	4				640.77	639.15	648.1			
		618.08				Hard Gray Clay Till	4									
							5	4.0	24.0							
							7									
							4									
							5	4.0	21.5							
							8									
		613.58				Hard to Very Stiff Gray Silty Clay Loam/Silty Loam Till with numerous Sand seams & pockets	6									
							6	4.7	15.8							
							8									
							5									
							7	4.1	14.3							
							11									
							4									
							8	4.3	13.6							
							12									
							12									
							17	4.5	12.9							
							29									
							10									
							11	4.5	16.1							
							10									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

DESIGNED	SDH
CHECKED	JML
DRAWN	JWK/DJM
CHECKED	MSW

DATE 08/04/10

SOIL BORING LOGS  
STRUCTURE NO. 027-0098

Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1671 fax	SHEET NO. E17	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18 SHEETS	681	*	FORD/IROQUOIS	146	102
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 66880

\* 116 BR/[116 BR, (BR-2)BR, I & BR-3]

24-8271

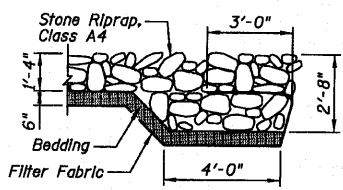
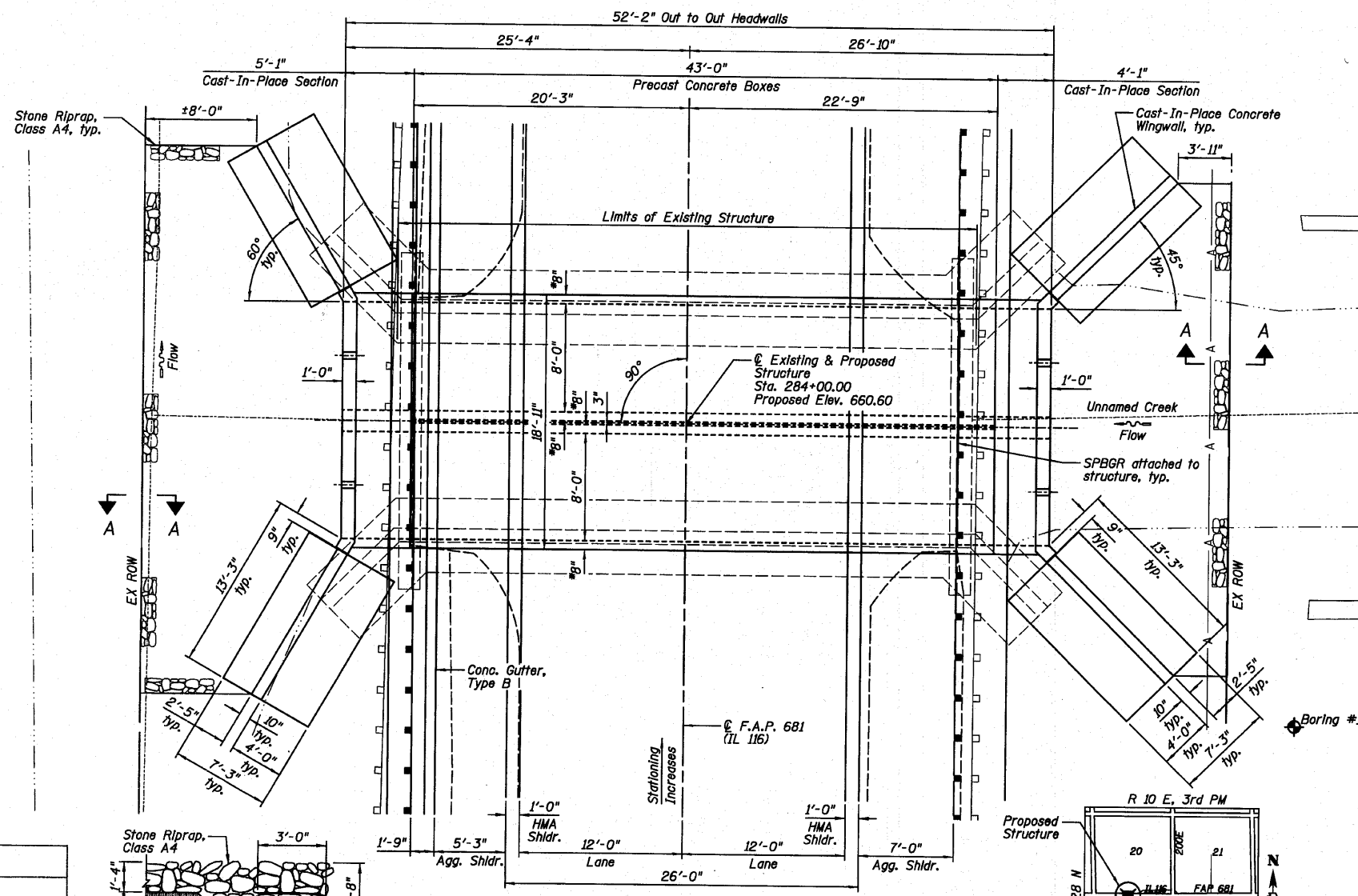
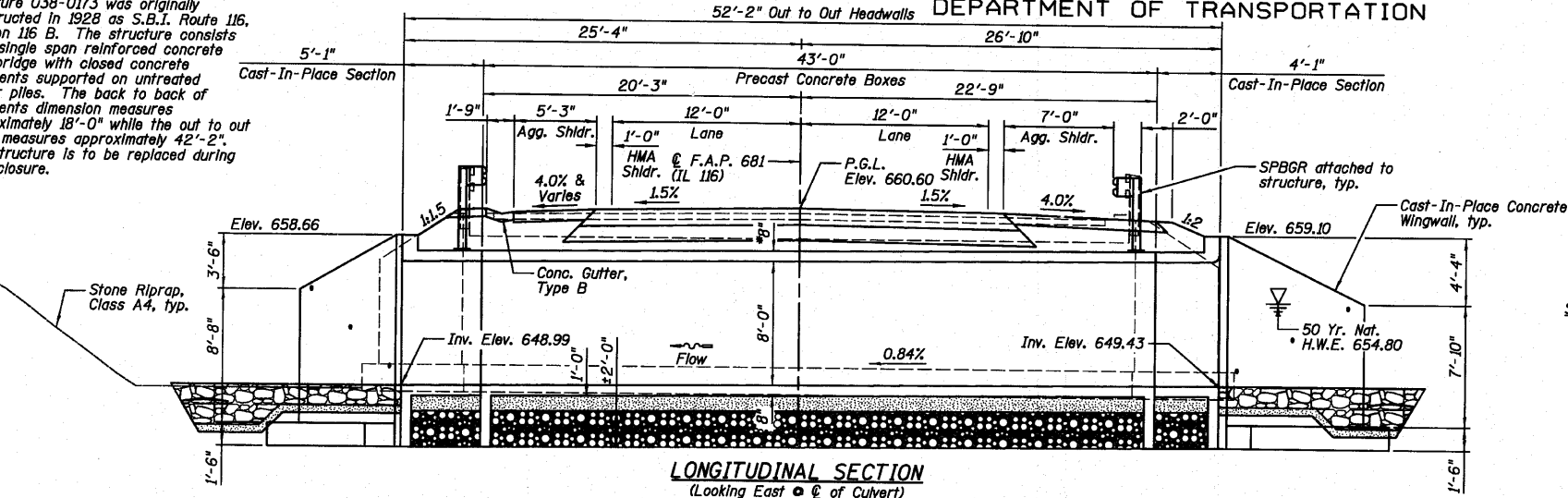


Benchmarks: 1.) BM#1 R.R. spike in power pole, Station 283+36/39' Rt., Elevation 659.15  
 2.) BM#2 Chiseled "□" on southwest wingwall Station 283+91/22' Rt., Elevation 660.04

Existing Structure: Structure 038-0173 was originally constructed in 1928 as S.B.I. Route 116, Section 116 B. The structure consists of a single span reinforced concrete slab bridge supported on untreated timber piles. The back to back of abutments dimension measures approximately 18'-0" while the out to out width measures approximately 42'-2". The structure is to be replaced during road closure.

No Salvage.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION



Drainage Area = 1.81 Sq. Mi.			Existing Low Grade Elev. 660.28 @ Sta. 285+20						
			Proposed Low Grade Elev. 660.28 @ Sta. 285+20						
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	*Head - Ft.	Headwater El.			
	10	128	53	68	653.7	0.1	0.0	653.8	653.7
Design	50	194	70	86	654.8	0.1	0.0	654.9	654.8
Base	100	223	77	92	655.2	0.1	0.0	655.3	655.2
Overtopping (exist.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Overtopping (prop.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max. Calc.	500	289	91	107	656.1	0.1	0.0	656.2	656.1

10 Yr. Velocity = 1.7 fps (Proposed)  
 10 Yr. Velocity = 1.8 fps (Existing)

INDEX OF SHEETS

SHEET NO.	TITLE
F1	GENERAL PLAN AND ELEVATION
F2	LONGITUDINAL SECTION, SECTION THRU PRECAST BARRELS AND PRECAST END ELEVATION
F3	CAST-IN-PLACE CONCRETE CULVERT SECTIONS, DETAILS AND BILL OF MATERIAL
F4	NORTH CAST-IN-PLACE TOP SLAB PLAN AND SECTION
F5	NORTH CAST-IN-PLACE BOTTOM SLAB PLAN AND SECTION
F6	SOUTH CAST-IN-PLACE TOP SLAB PLAN AND SECTION
F7	SOUTH CAST-IN-PLACE BOTTOM SLAB PLAN AND SECTION
F8	WINGWALLS
F9-F10	SOIL BORING LOGS

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	144
Stone Riprap, Class A4	Sq. Yd.	102
Filter Fabric	Sq. Yd.	102
Removal Of Existing Structures No. 7	Each	1
Reinforcement Bars	Pound	6,840
Reinforcement Bars, Epoxy Coated	Pound	690
Concrete Box Culverts	Cu. Yd.	59.0
Precast Concrete Box Culvert 8'x8' (M273)	Foot	86
Rock Fill	Cu. Yd.	144

GENERAL NOTES

- 1.) Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
- 2.) Reinforcement bars designated (E) shall be epoxy coated.
- 3.) Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 4.) Cast-in-Place concrete exposed edges shall be beveled 3/4".
- 5.) It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of "Concrete Box Culverts".
- 6.) Structural seal does not include design of precast elements.
- 7.) The precast concrete culvert sections shall be designed and manufactured in accordance with AASHTO M273 (ASTM C 850).
- 8.) For backfilling and embankment, see Standard Specifications.
- 9.) End of precast section shall not have a bell or spigot.
- 10.) Contractor to confirm all precast culvert dimensions with supplier before starting construction. All applicable cast-in-place concrete dimensions shall match precast culvert dimensions.
- 11.) See Sheets F9 and F10 for soil borings.
- 12.) The last section of precast culvert shall have an integral toe wall and reinforcing bars extending from the precast culvert as shown on Sheet F2.
- 13.) The pay item "Removal and Disposal of Unsuitable Material" shall include the excavation of unsuitable material for a depth of ±3'-4" below the structure for a width of 22'-11" within the limits of the toe walls as shown on the plans. The actual amount shall be determined in the field by the Engineer.
- 14.) The pay item "Rock Fill" shall include the placement CA-7 and Gradation 1 below the structure for a width of 22'-11" within the limits of the toe walls as shown on the plans. The actual amount shall be determined in the field by the Engineer.
- 15.) The Contractor shall reshape the channel within the Right-Of-Way in order to facilitate drainage and the placement of riprap as directed by the Engineer. The cost of reshaping the channel shall be included in the cost of "Removal of Existing Structures".
- 16.) Alternate extended bars from precast section in slabs so top and bottom mats of reinforcement do not lap at the same location.

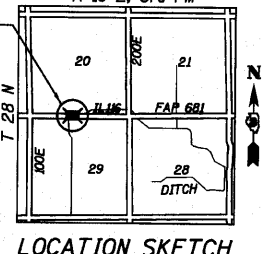
DESIGN SPECIFICATIONS

AASHTO 2002  
**DESIGN STRESSES**  
**FIELD UNITS**  
 f'c = 3,500 psi (Cast-In-Place)  
 fy = 60,000 psi (Reinforcement)  
**PRECAST UNITS**  
 f'c = 5,000 psi (Precast)  
 fy = 60,000 psi (Reinforcement)  
 fy = 65,000 psi (Welded Wire Fabric)  
**LOADING HS20-44**  
 Allow 50#/sq. ft. for future wearing surface.

DESIGNED SDH
CHECKED JML
DRAWN JWK/DJM
CHECKED MSW
DATE 08/04/10

PLAN

- NOTES:  
 1.) \*Confirm slab and wall thickness with Precaster.  
 2.) P.G.L. denotes Profile Grade Line.



Mark S. Wylie Date 8/4/10  
 MARK S. WYLIE  
 ILLINOIS STRUCTURAL ENGINEER  
 NO. 081-005002  
 Exp. Date 11/30/10

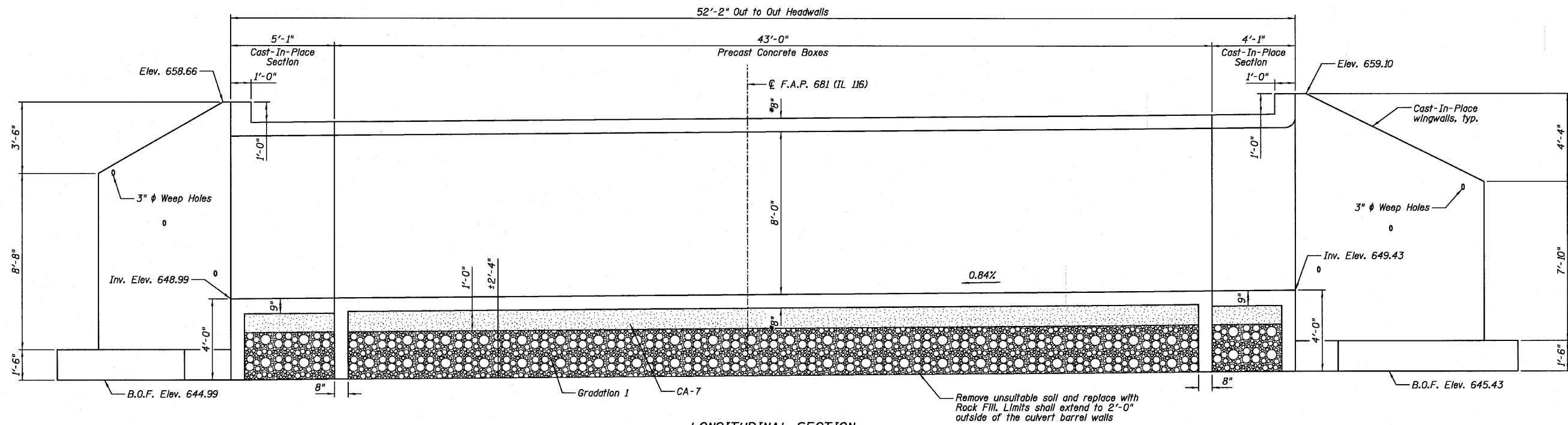
GENERAL PLAN AND ELEVATION  
 IL. ROUTE 116 OVER  
 UNNAMED DRAINAGE DITCH  
 F.A.P. 681 - SEC. 116 BR  
 IROQUOIS COUNTY  
 STATION 284+00.00  
 STRUCTURE NO. 038-2549

Farnsworth  
 GROUP, INC.  
 2709 McGraw Drive  
 Bloomington, Illinois 61704  
 309/663-8435, 309/663-1571 fax

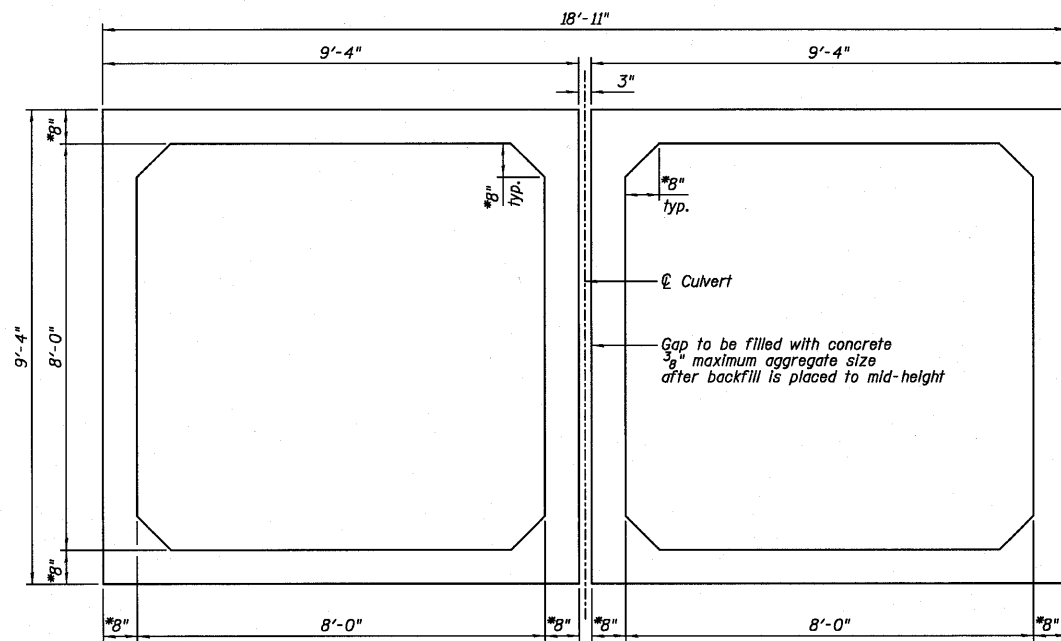
SHEET NO. F1	F.A.P. RTE. 681	SECTION *
10 SHEETS		

COUNTY	TOTAL SHEETS	SHEET NO.
FORD/IROQUOIS	146	104
CONTRACT NO. 66880		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

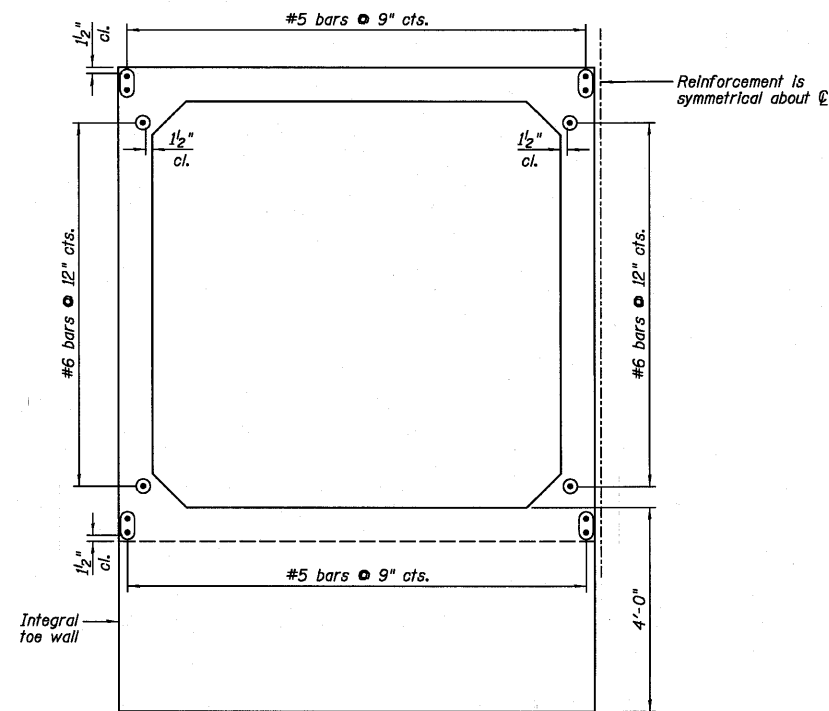
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**LONGITUDINAL SECTION**  
(Looking East •  $\bar{C}$  of Culvert)



**SECTION THRU PRECAST CONCRETE BARRELS**



**PRECAST CONCRETE CULVERT END ELEVATION**  
Section is symmetrical about  $\bar{C}$  culvert.

**LONGITUDINAL SECTION,  
SECTION THRU PRECAST  
BARRELS AND PRECAST  
END ELEVATION  
STRUCTURE NO. 038-2549**

DESIGNED	SDH
CHECKED	JML
DRAWN	JWK/DJM
CHECKED	MSW

DATE 08/04/10

**NOTES:**

- 1.) Confirm slab and wall thickness with Precaster.
- 2.) For Cast-In-Place concrete portions, see Sheets F3-F7.
- 3.) B.O.F. denotes Bottom Of Footing.
- 4.) Cost of reinforcing bars extending from precast barrels included with the cost of precast concrete box culverts.

**Farnsworth GROUP, INC.**  
2709 McGraw Drive  
Bloomington, Illinois 61704  
309/663-8435, 309/663-1571 fax

SHEET NO. F2

10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/IROQUOIS	146	105
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 66880		

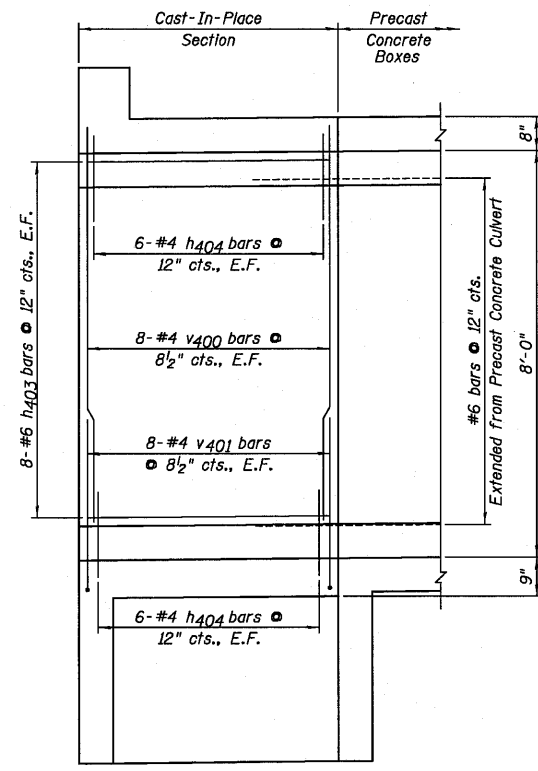
\* 116 BR/[116 BR, (BR-2)BR, I & BR-3]

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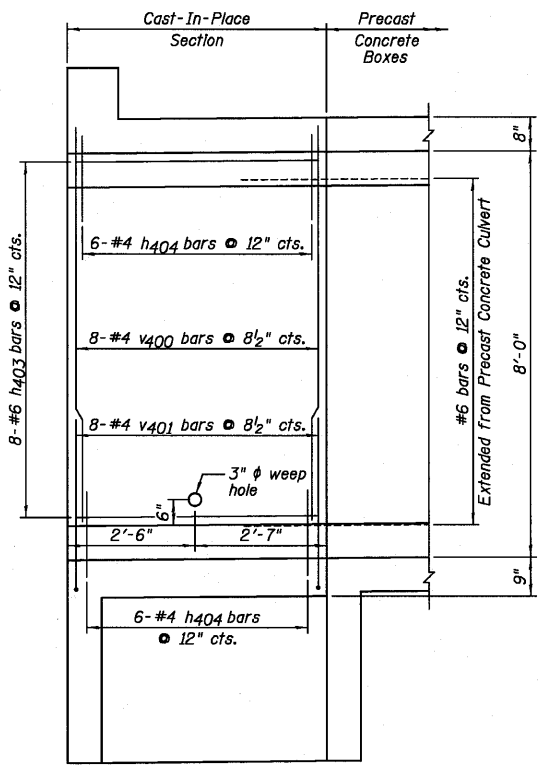
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE CULVERT  
BILL OF MATERIAL

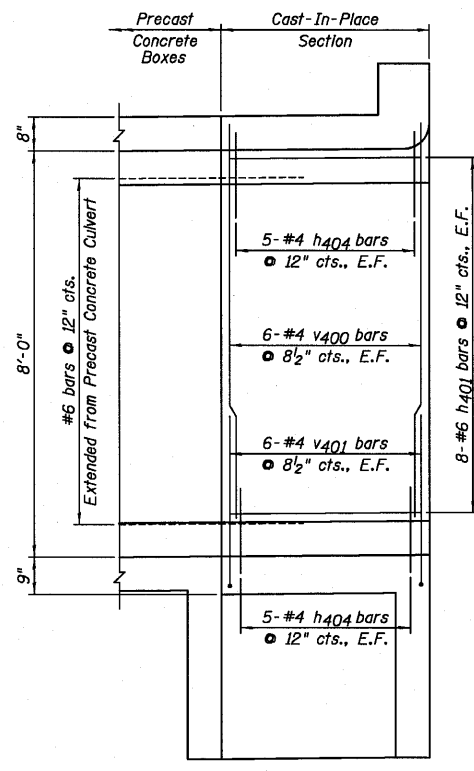
Bar	No.	Size	Length	Shape
a400	12	#7	20'-3"	□
a401	27	#7	18'-7"	□
a402	14	#7	8'-0"	□
d400	60	#4	5'-3"	└
h400	108	#5	3'-9"	└
h401	32	#6	3'-9"	└
h402	108	#5	4'-9"	└
h403	32	#6	4'-9"	└
h404	88	#4	1'-10"	└
h405	8	#6	18'-3"	└
h406	80	#4	12'-5"	└
h407	8	#5	18'-7"	└
n400(E)	76	#6	6'-0"	└
s400	19	#4	5'-1"	└
s401	19	#4	4'-11"	└
t400	152	#4	6'-11"	└
v400	56	#4	7'-10"	└
v401	56	#4	3'-3"	└
v402	4	#4	19'-8"	└
v403	19	#4	19'-8"	└
v404	4	#4	20'-6"	└
v405	19	#4	20'-6"	└
w400	64	#4	12'-2"	└
Item	Unit	Quantity		
Reinforcement Bars	Pound	6,840		
Reinforcement Bars, Epoxy Coated	Pound	690		
Name Plates	Each	1		
Concrete Box Culverts	Cu. Yd.	59.0		



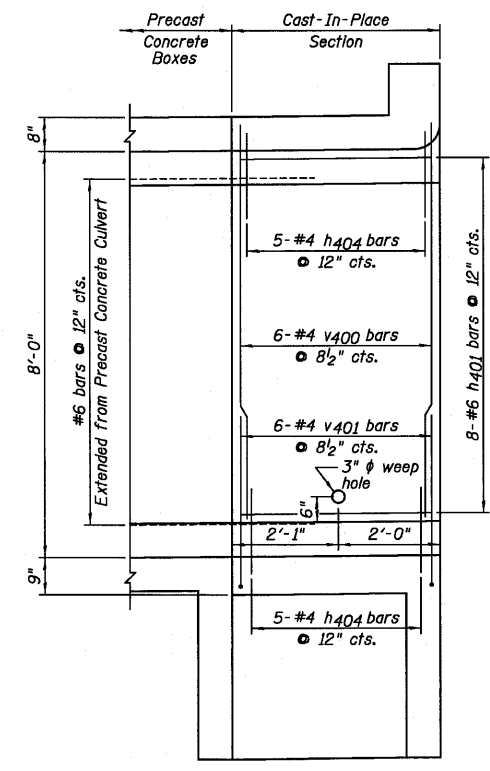
NORTH INTERIOR WALL



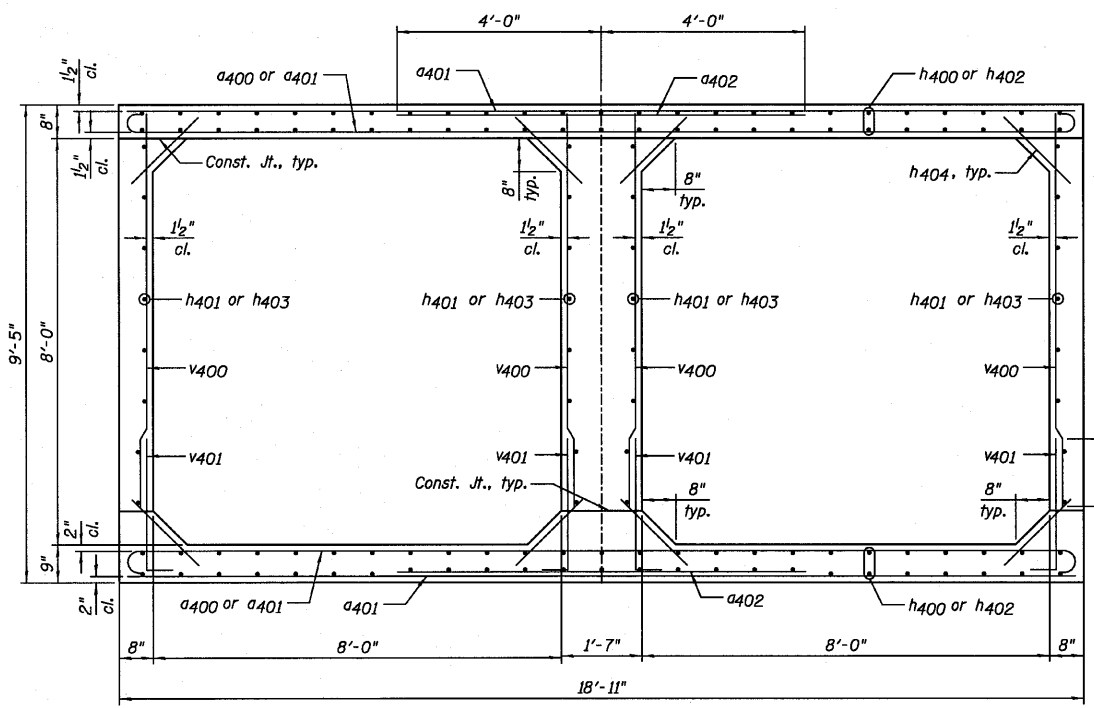
NORTH EXTERIOR WALL



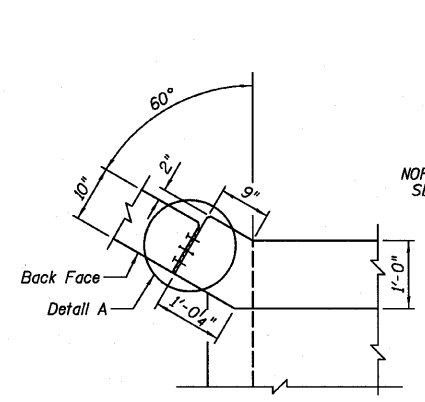
SOUTH INTERIOR WALL



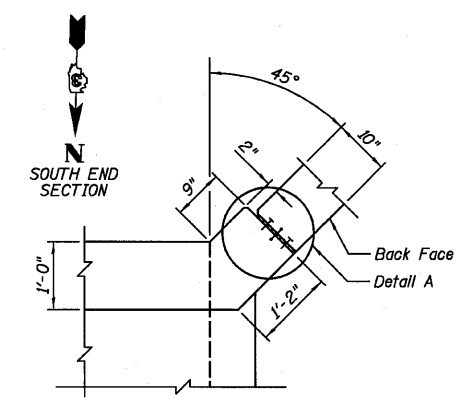
SOUTH EXTERIOR WALL



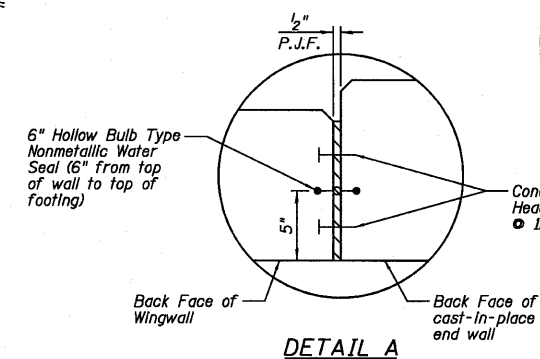
SECTION THRU CAST-IN-PLACE CONCRETE BARREL



NORTH CORNER DETAIL



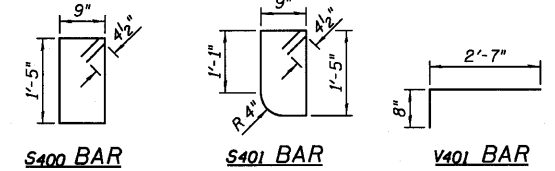
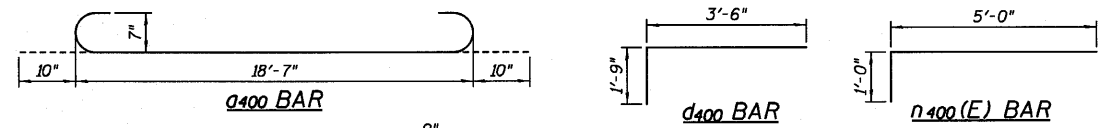
SOUTH CORNER DETAIL



DETAIL A

BAR CUTTING DIAGRAM

BAR	A	B	C	D	E	F	L
v402	12'-0"	7'-8"	12'-0"	7'-8"	1	4	19'-8"
v403	12'-0"	7'-8"	12'-0"	7'-8"	1	19	19'-8"
v404	12'-0"	8'-6"	12'-0"	8'-6"	1	4	20'-6"
v405	12'-0"	8'-6"	12'-0"	8'-6"	1	19	20'-6"



CAST-IN-PLACE CONCRETE CULVERT  
SECTIONS, DETAILS AND  
BILL OF MATERIAL  
STRUCTURE NO. 038-2549

DESIGNED	SDH
CHECKED	JML
DRAWN	JWK/DJM
CHECKED	MSW

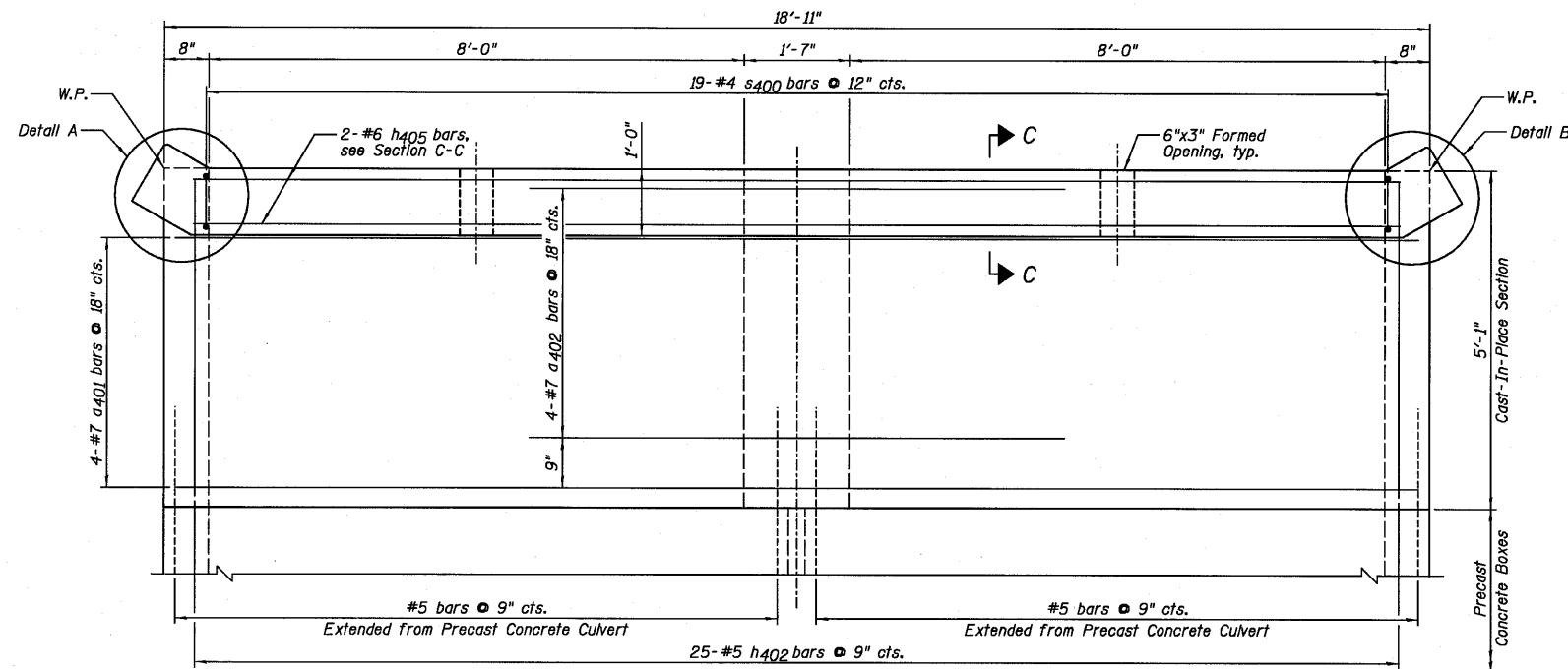
DATE 08/04/10

**Farnsworth GROUP, INC.**  
2709 McGraw Drive  
Bloomington, Illinois 61704  
309/663-8435, 309/663-1571 fax

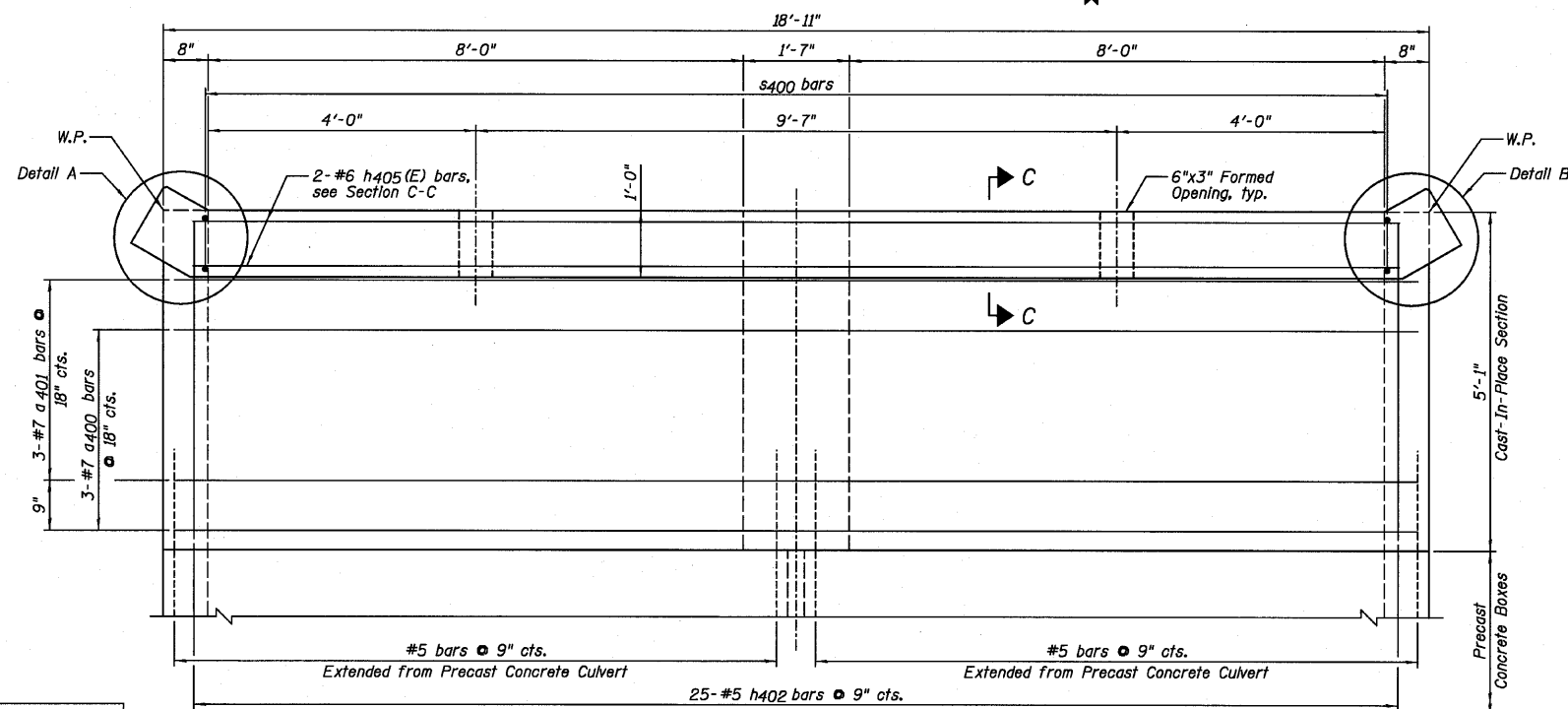
SHEET NO. F3  
10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/IROQUOIS	146	106
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 66880		

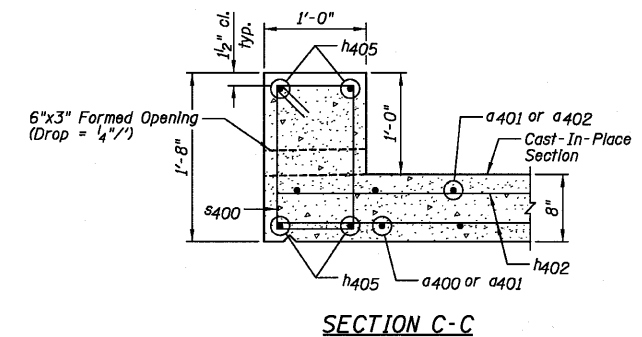
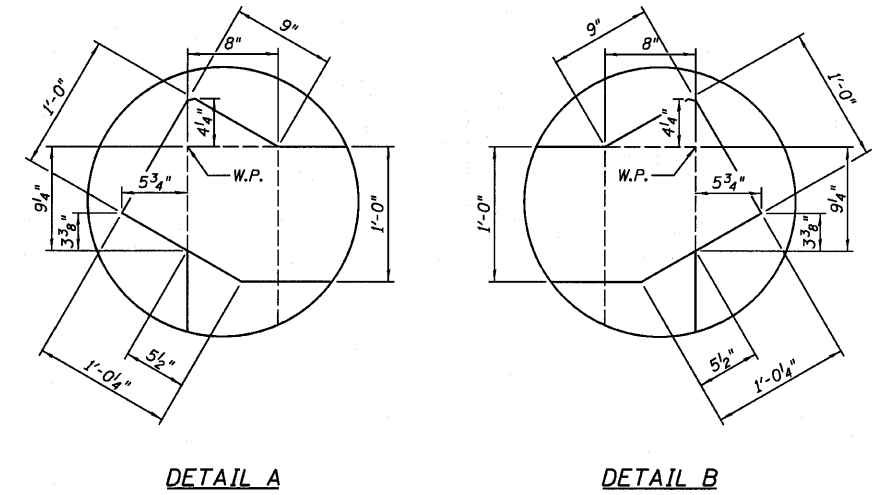
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



TOP MAT OF REINFORCEMENT PLAN



BOTTOM MAT OF REINFORCEMENT PLAN



NOTES:

- 1.) For Bill of Material, see Sheet F3.
- 2.) W.P. denotes Working Point.

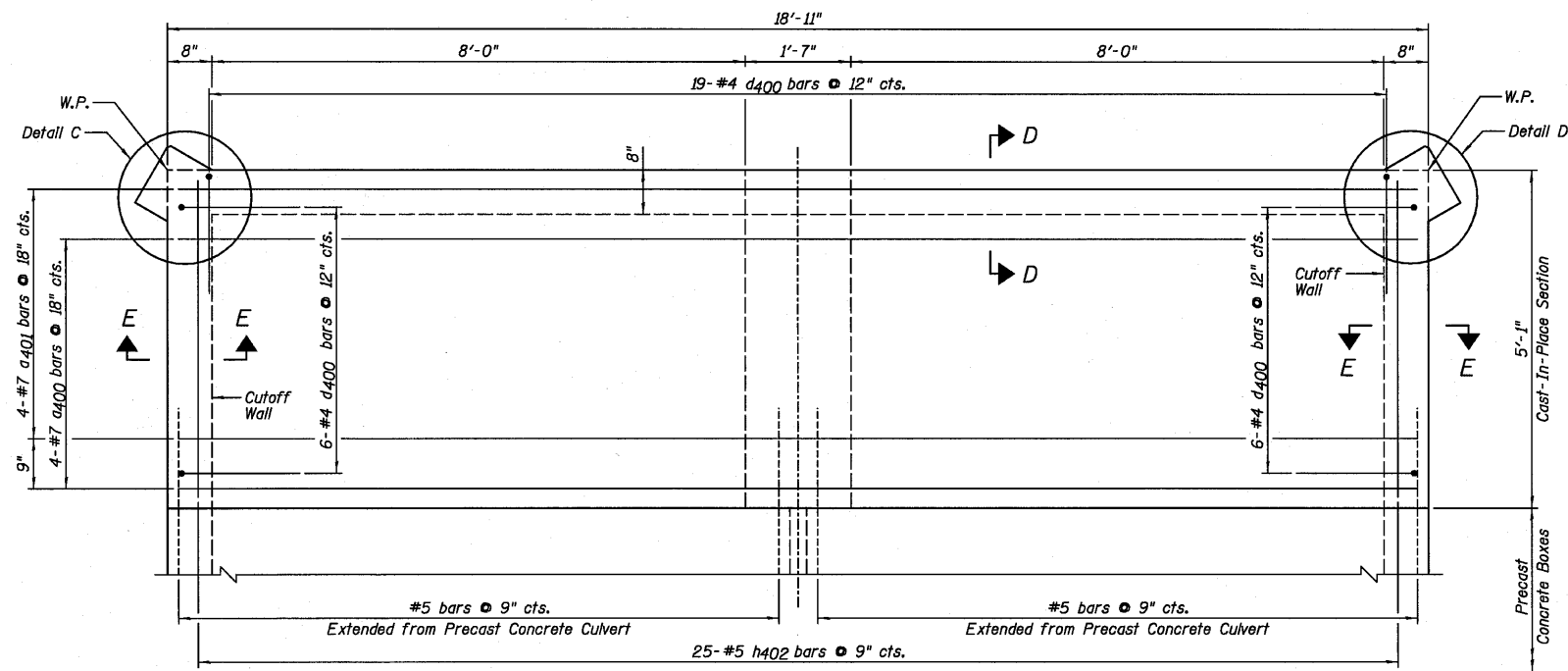
DESIGNED	SDH
CHECKED	JML
DRAWN	JWK/DJM
CHECKED	MSW

DATE 08/04/10

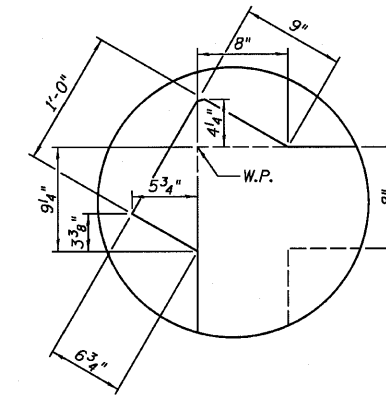
<b>Farnsworth GROUP, INC.</b> 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. F4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10 SHEETS	681	*	FORD/IROQUOIS	146	107
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 66880

NORTH CAST-IN-PLACE  
TOP SLAB PLAN  
AND SECTION  
STRUCTURE NO. 038-2549

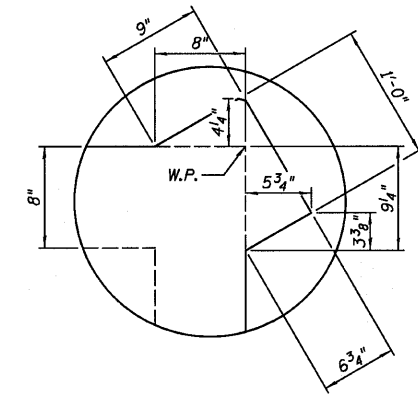
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



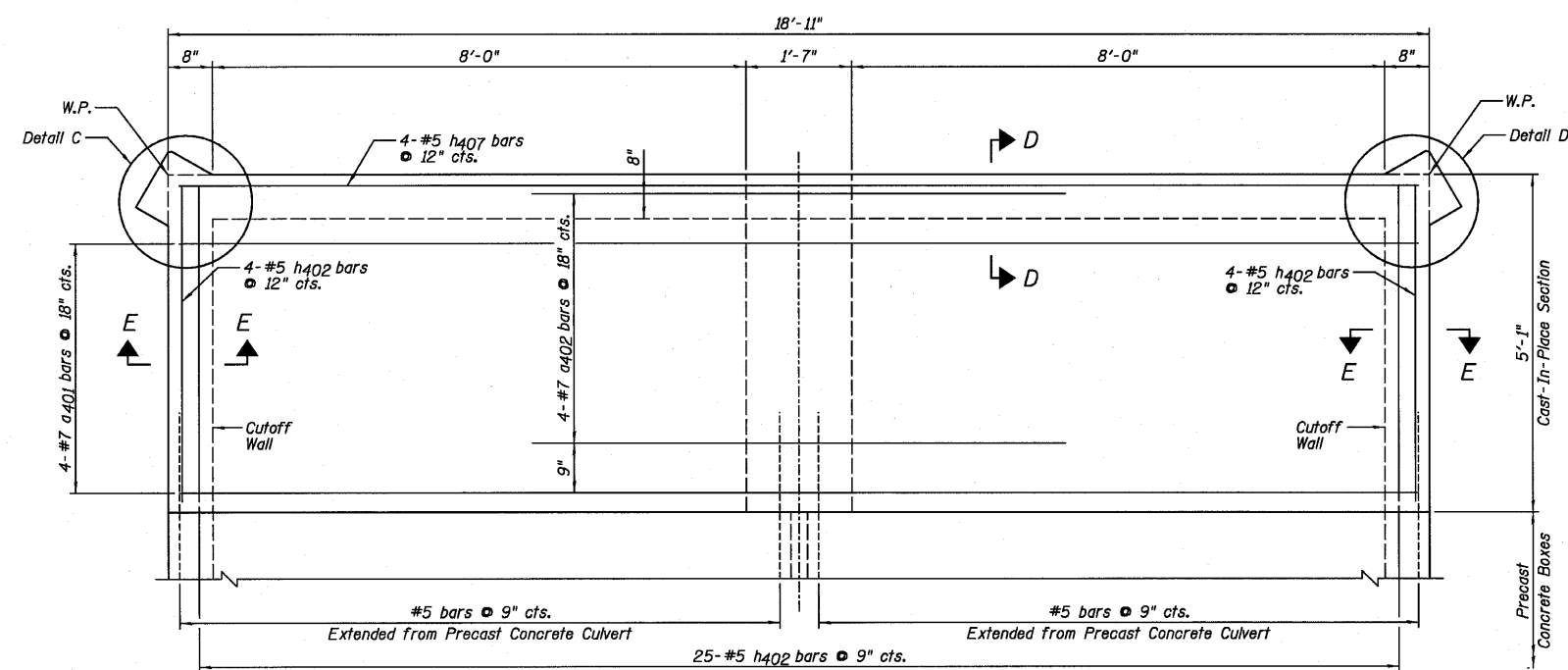
TOP MAT OF REINFORCEMENT PLAN



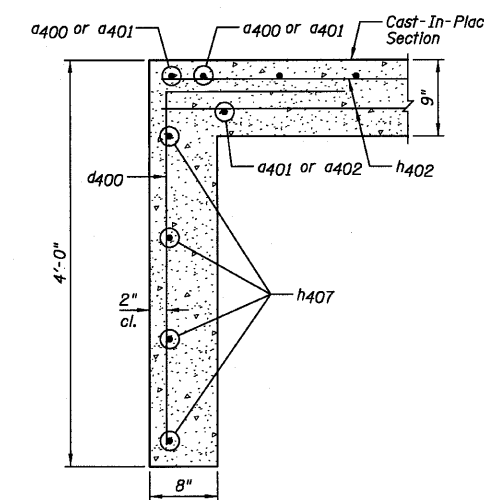
DETAIL C



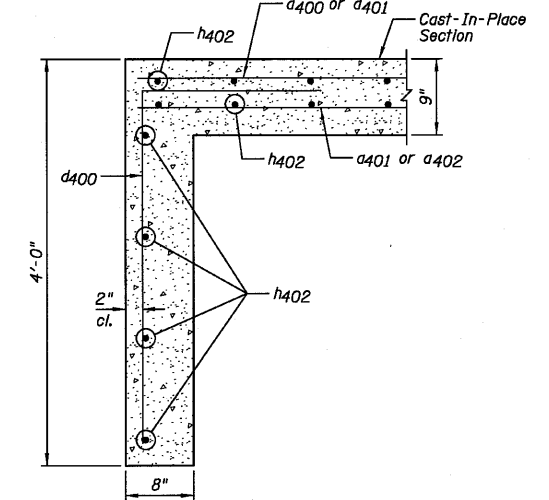
DETAIL D



BOTTOM MAT OF REINFORCEMENT PLAN



SECTION D-D



SECTION E-E

NOTES:

- 1.) For Bill of Material, see Sheet F.3.
- 2.) W.P. denotes Working Point.

NORTH CAST-IN-PLACE  
BOTTOM SLAB PLAN  
AND SECTIONS  
STRUCTURE NO. 038-2549

DESIGNED	SDH
CHECKED	JML
DRAWN	JWK/DJM
CHECKED	MSW

DATE 08/04/10

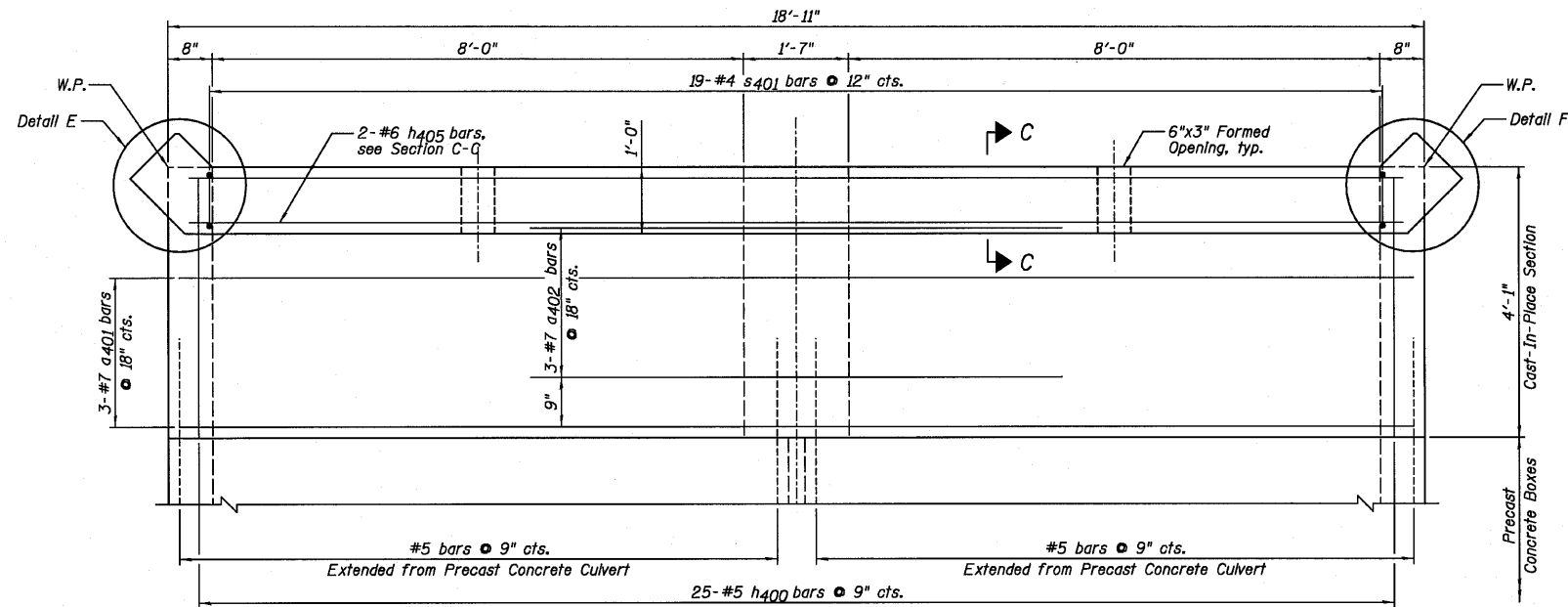
Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. F5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10 SHEETS	681	*	FORD/IROQUOIS	146	108
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
				CONTRACT NO. 66880		

\* 116 BR/L116 BR, (BR-2)BR, I & BR-31

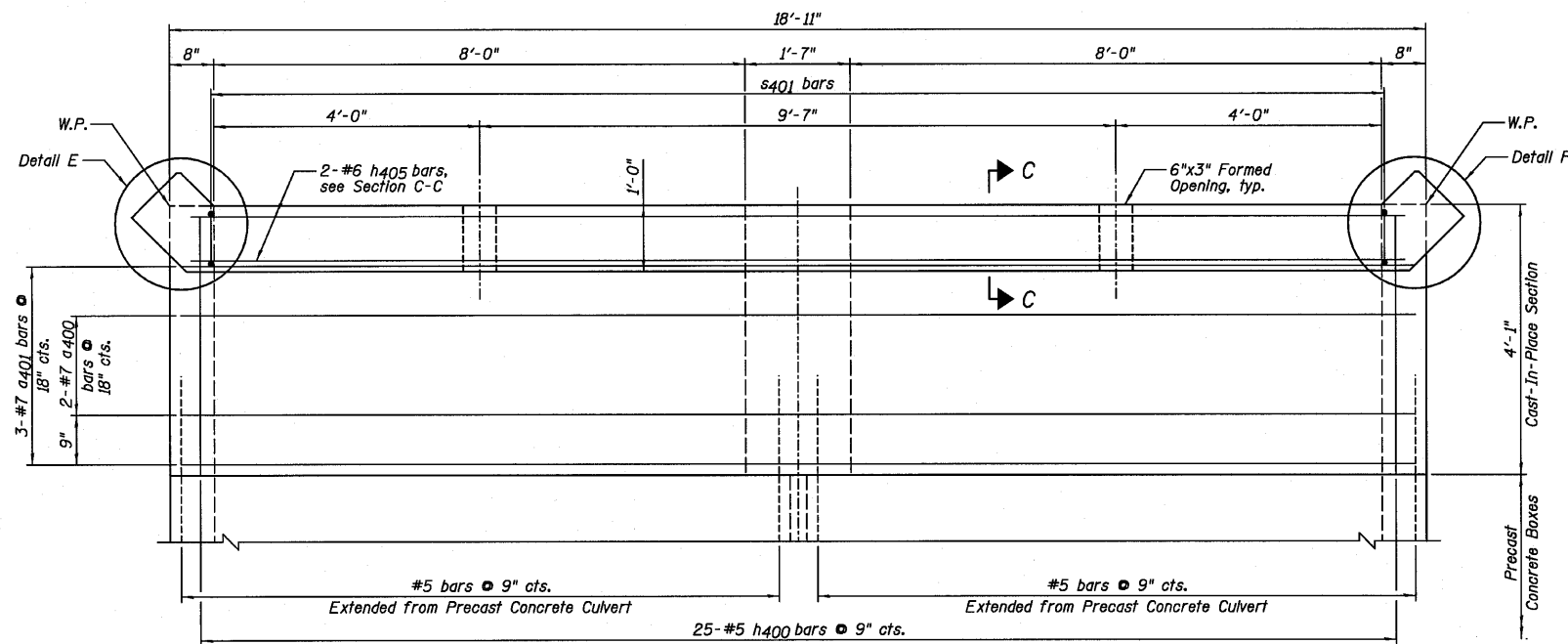
24-8271



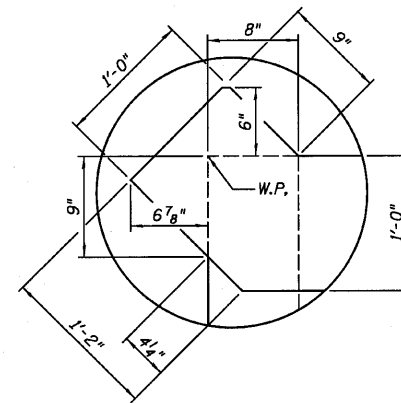
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



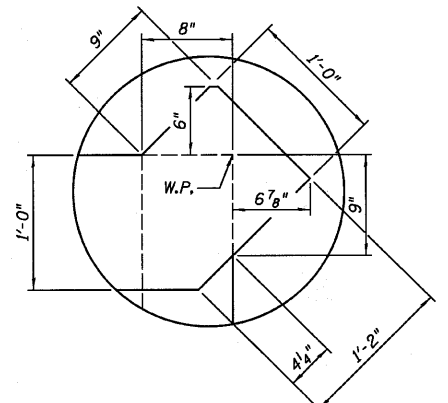
TOP MAT OF REINFORCEMENT PLAN



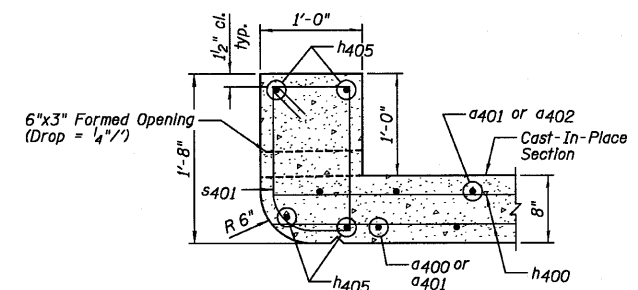
BOTTOM MAT OF REINFORCEMENT PLAN



DETAIL E



DETAIL F



SECTION C-C

NOTES:

- 1.) For Bill of Material, see Sheet F3.
- 2.) W.P. denotes Working Point.

SOUTH CAST-IN-PLACE  
TOP SLAB PLAN  
AND SECTION  
STRUCTURE NO. 038-2549

DESIGNED	SDH
CHECKED	JML
DRAWN	JWK/DJM
CHECKED	MSW

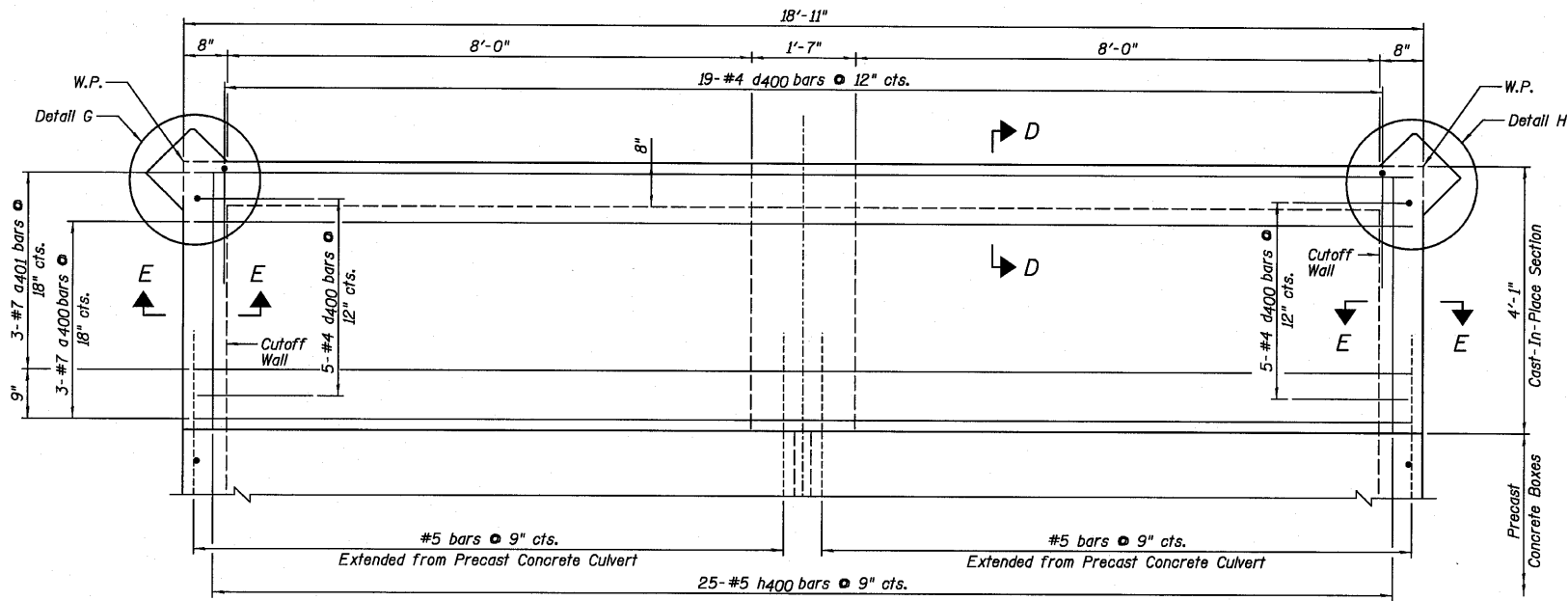
DATE 08/04/10

<b>Farnsworth GROUP, INC.</b> 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. F6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10 SHEETS	681	*	FORD/IROQUOIS	146	109
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 66880				

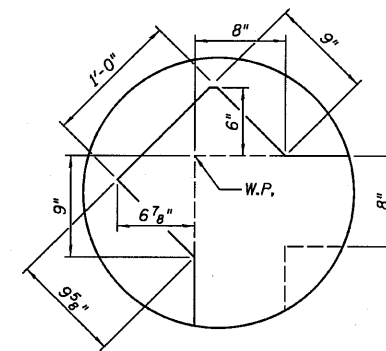
\* 116 BR/L116 BR, (BR-2)BR, I & BR-31

24-8271

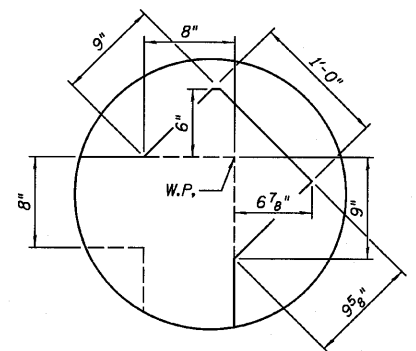
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



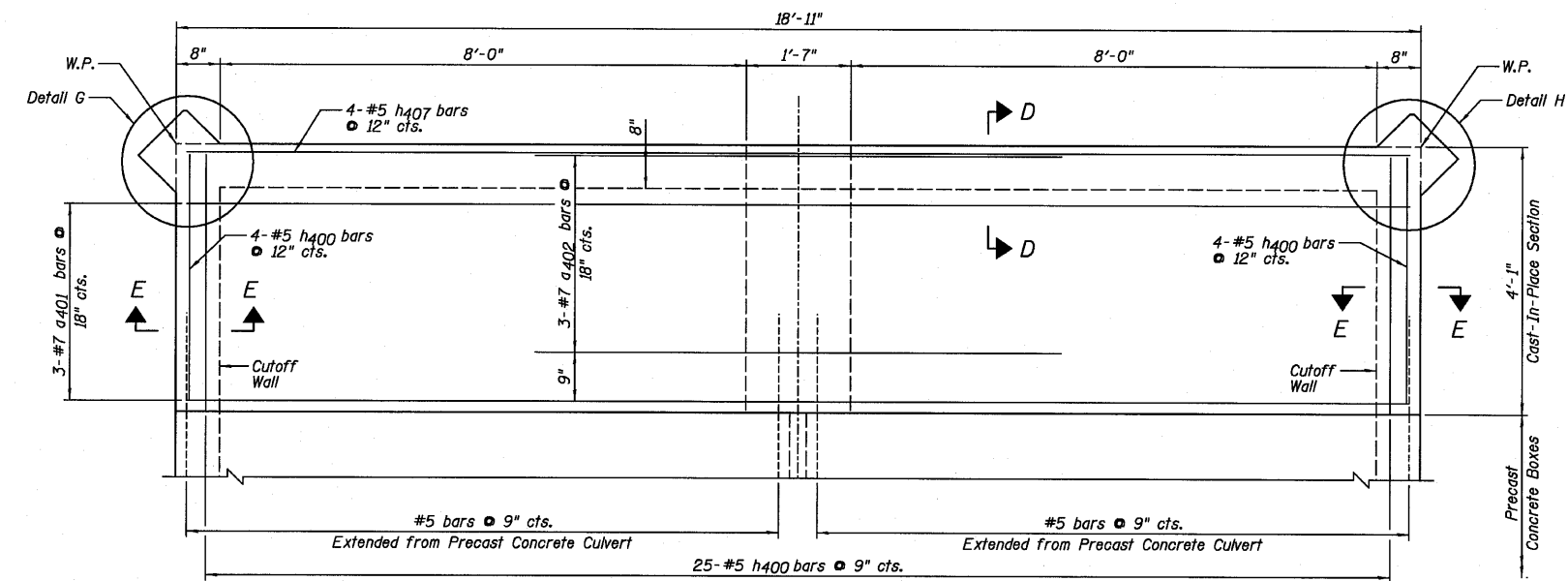
TOP MAT OF REINFORCEMENT PLAN



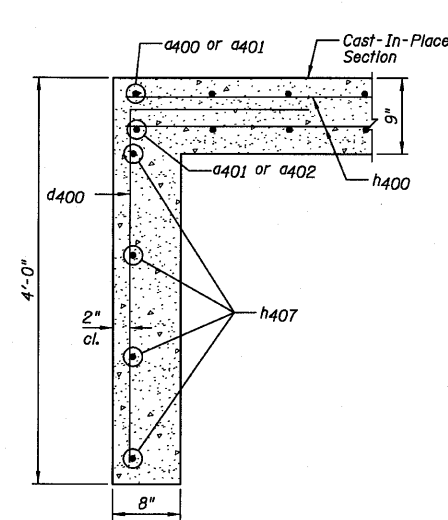
DETAIL G



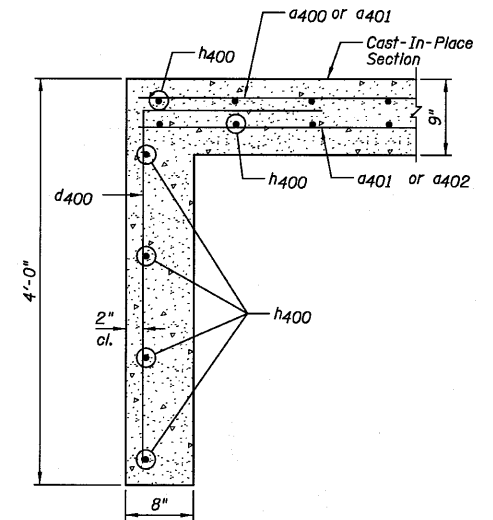
DETAIL H



BOTTOM MAT OF REINFORCEMENT PLAN



SECTION D-D



SECTION E-E

NOTES:

- 1.) For Bill of Material, see Sheet F3.
- 2.) W.P. denotes Working Point.

SOUTH CAST-IN-PLACE  
BOTTOM SLAB PLAN  
AND SECTIONS  
STRUCTURE NO. 038-2549

DESIGNED	SDH
CHECKED	JML
DRAWN	JWK/DJM
CHECKED	MSW

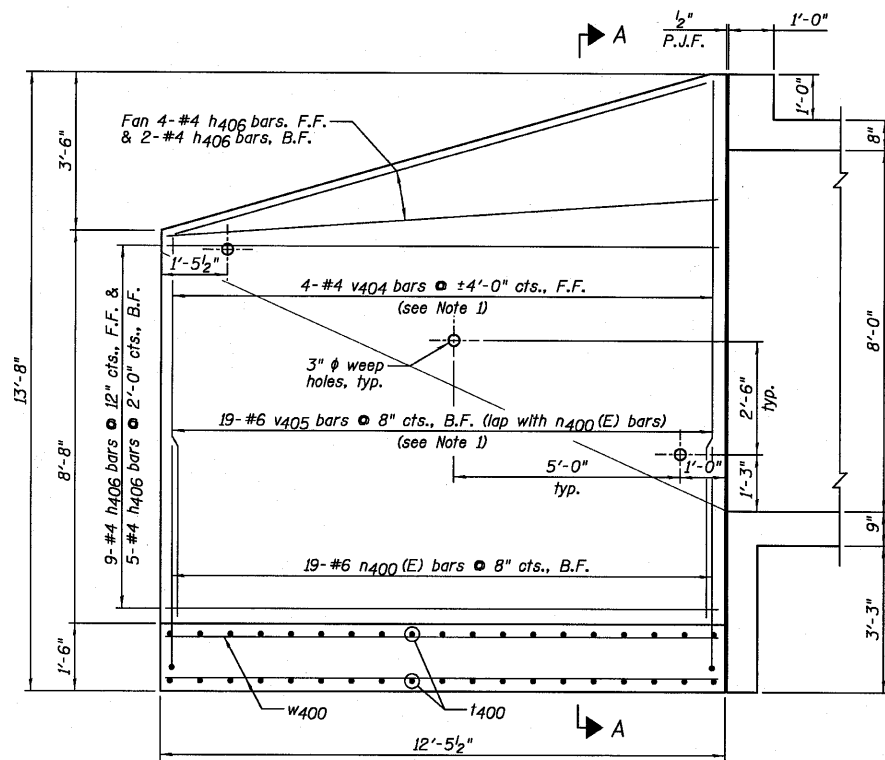
DATE 08/04/10

<b>Farnsworth</b> GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. F7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10 SHEETS	681	*	FORD/IROQUOIS	146	110
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 66880	

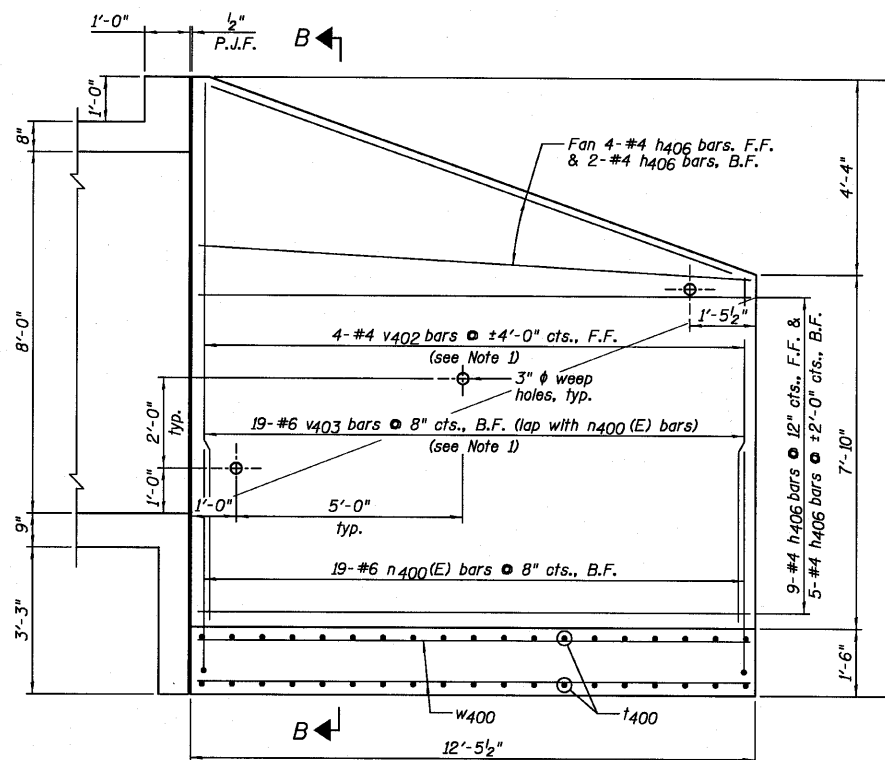
\* 116 BR/[116 BR. (BR-2)BR. I & BR-3]

24-8271

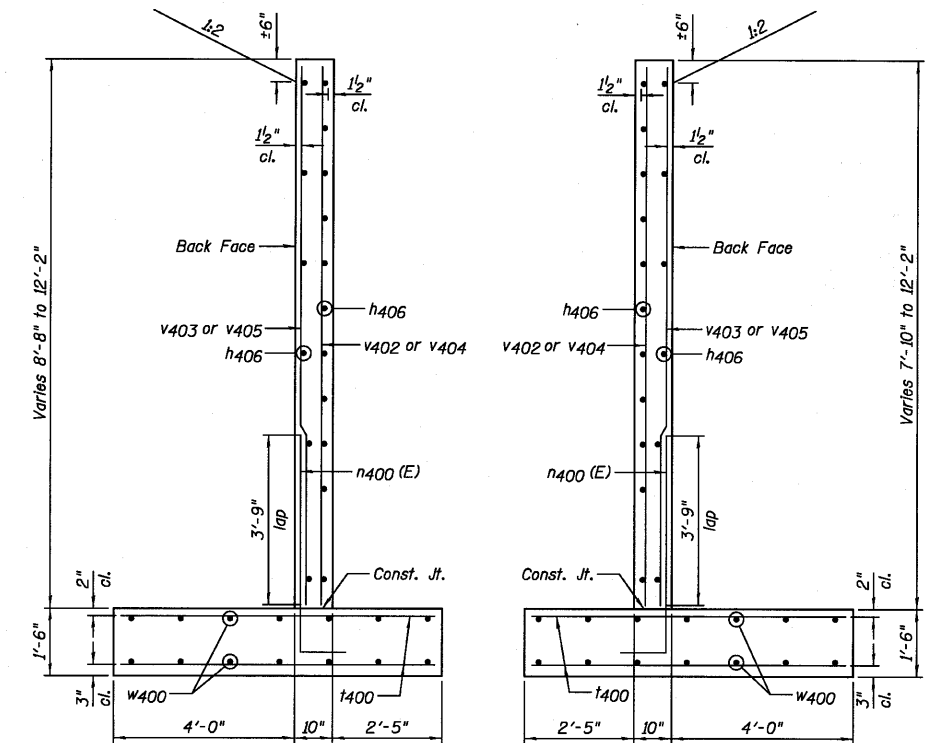
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



NORTH END WINGWALL ELEVATION



SOUTH END WINGWALL ELEVATION

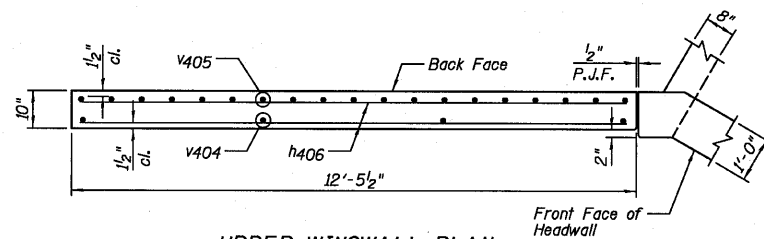


SECTION A-A

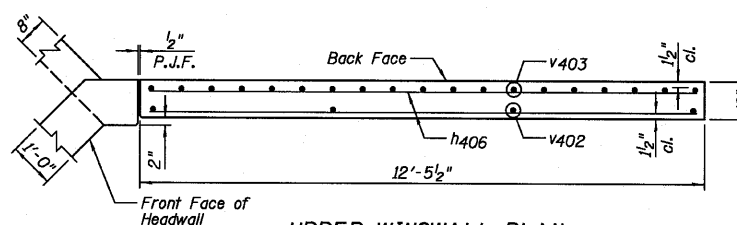
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SECTION B-B

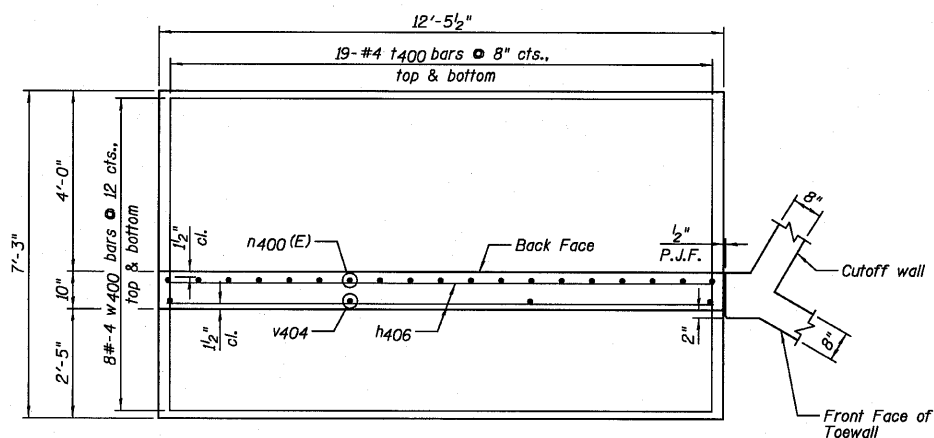
(Calc. Max Soil Pressure = 2840 psf)



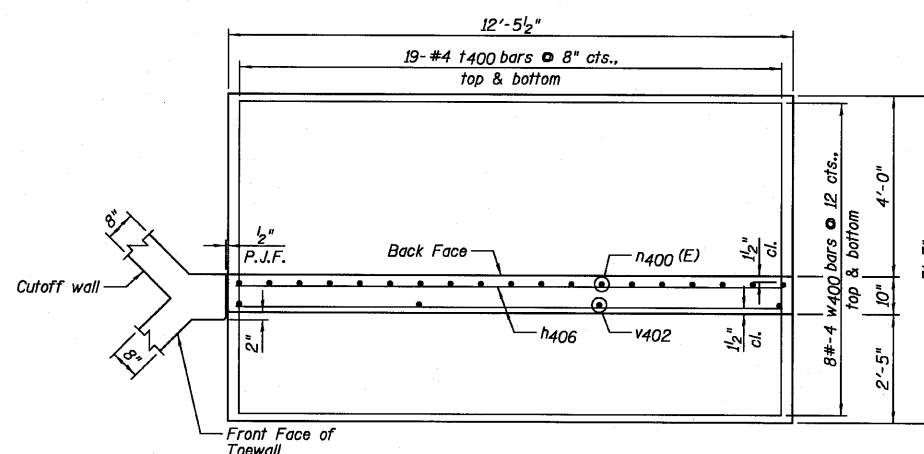
UPPER WINGWALL PLAN



UPPER WINGWALL PLAN



LOWER WINGWALL PLAN



LOWER WINGWALL PLAN

NOTES:

- 1.) Order v402, v403, v404 and v405 bars full length, cut according to Bar Cutting Diagram on Sheet F3. Use remainder of bars in opposite wingwall.
- 2.) For Bill of Material, see Sheet F3.
- 3.) F.F. denotes Front Face and B.F. denotes Back Face.

DESIGNED	SDH
CHECKED	JML
DRAWN	JWK/DJM
CHECKED	MSW

DATE 08/04/10

WINGWALLS  
STRUCTURE NO. 038-2549

<b>Farnsworth</b> GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. F8	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10 SHEETS	681	*	FORD/IROQUOIS	146	111
		FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
				CONTRACT NO. 66880		

\* 116 BR/[116 BR. (BR-2)BR. I & BR-3]

24-8271

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Page 1 of 2

**SOIL BORING LOG**

Date 10/10/06

ROUTE SBI-116 (IL 116) DESCRIPTION IL 116 over unnamed creek LOGGED BY Larry Myers

SECTION 116-B LOCATION NW 1/4, SEC. 29, TWP. 28N, RNG. 10E, 3<sup>rd</sup> PM

COUNTY Iroquois DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 038-0173  
Station 284+00

BORING NO. #1: SW Quad: W Abut  
Station 283+78  
Offset 45.00ft Right  
Ground Surface Elev. 659.50 ft

DEPTH (ft)	SOIL DESCRIPTION	BLU (ft)	LOG (ft)	UCS (tsf)	MOISTURE (%)	DEPT (ft)	LOG (ft)	UCS (tsf)	MOISTURE (%)
0	Augered, brown, Silty Clay Loam- fill					3	2.1	27.4	
657.00	Hard, brown black, Silty Clay Loam- fill	5		>4.5 P	20.1	3	4.1	21.9	
654.50	Stiff, gray brown, Sandy Loam to Loam with seams of Clay Loam	4		1.5 P	10.7	3	3.1	14.1	
652.50	Very stiff, brown, Silty Clay with layers and pockets of Silt and Clay	2		2.0 P	22.5	2	3.1	17.1	
647.50	Stiff, brown gray, Silty Clay with pockets of Clay and Silt- blocky	2		1.4 B	23.8	3	4.1	17.9	
645.00	Very stiff, gray, Silty Clay	3		3.0 P	22.2	3	2.9	24.1	
642.50	Hard, gray, Clay	5		4.7 S	10.9	6	5.4	23.0	
640.00	Very stiff, gray, Clay	7				12			

Surface Water Elev. 651.82 ft  
Stream Bed Elev. ft  
Groundwater Elev.:  
First Encounter 602.5 ft  
Upon Completion 640.5 ft  
After Hrs. ft

Very stiff, gray, Clay (continued)  
Hard, gray, Silty Loam with pockets of Silty Loam  
Very stiff, gray, Silty Clay Till  
Hard, gray, Silty Clay Loam Till  
Stiff, brown gray, Silty Clay with pockets of Clay and Silt- blocky  
Very stiff, gray, Silty Clay Loam Till  
Hard, gray, Clay to Silty Clay with Silt seams (potential minor varing)

1.4 TSF x B = 2.8 tsf

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Page 2 of 2

**SOIL BORING LOG**

Date 10/10/06

ROUTE SBI-116 (IL 116) DESCRIPTION IL 116 over unnamed creek LOGGED BY Larry Myers

SECTION 116-B LOCATION NW 1/4, SEC. 29, TWP. 28N, RNG. 10E, 3<sup>rd</sup> PM

COUNTY Iroquois DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 038-0173  
Station 284+00

BORING NO. #1: SW Quad: W Abut  
Station 283+78  
Offset 45.00ft Right  
Ground Surface Elev. 659.50 ft

DEPTH (ft)	SOIL DESCRIPTION	BLU (ft)	LOG (ft)	UCS (tsf)	MOISTURE (%)	DEPT (ft)	LOG (ft)	UCS (tsf)	MOISTURE (%)
5	Hard, gray, Clay to Silty Clay with Silt seams (potential minor varing) (continued)					10	5.4	22.1	
617.50	Very stiff, gray, interbedded, Silty Clay Loam and Silt	3		2.0 P	25.6	4	6.9	14.2	
615.00	Hard, gray, Silty Clay Loam Till with 6" Silt layer @ 46'	7				11	8.3	10.4	
604.50	Hard, gray, Silty Clay, Silt and fine, Gravel and Sand in 6" layers free H2O	10		>4.5 P	14.2	20			
602.50	Very dense, gray, fine to coarse, Sand	15				30			
600.00	Dense, gray, Sandy Clay Loam Till	30		>4.5		60	100/2'		

Surface Water Elev. 651.82 ft  
Stream Bed Elev. ft  
Groundwater Elev.:  
First Encounter 602.5 ft  
Upon Completion 640.5 ft  
After Hrs. ft

with high Gravel content up to Boulder/Cobble Auger refusal @ 59'  
End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

DESIGNED SDH
CHECKED JML
DRAWN JWK/DJM
CHECKED MSW

DATE 08/04/10

**SOIL BORING LOGS**  
**STRUCTURE NO. 038-2549**

<b>Farnsworth GROUP, INC.</b> 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. 69	F.A.P. RTE. 681	SECTION *	COUNTY FORD/IROQUOIS	TOTAL SHEETS 146	SHEET NO. 112
	10 SHEETS	CONTRACT NO. 66880				
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT		

\* 116 BR/[116 BR, (BR-2)BR, I & BR-3]

24-8271

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Page 1 of 2

**Illinois Department of Transportation**  
Division of Highways  
District #3, Ottawa

### SOIL BORING LOG

ROUTE SBI-116 (IL 116) DESCRIPTION IL 116 over unnamed creek LOGGED BY Larry Myers  
SECTION 116-B LOCATION NW 1/4, SEC. 29, TWP. 28N, RNG. 10E, 3<sup>rd</sup> PM  
COUNTY Iroquois DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 038-0173  
Station 284+00

BORING NO. #2: SE Quad: E Abut  
Station 284+36  
Offset 49.00ft Right  
Ground Surface Elev. 659.14 ft

Description	DEPTH (ft)	BULGE (in)	SHEAR (tsf)	PENETRATION (%)	MOISTURE (%)	Surface Water Elev.		Stream Bed Elev.		Groundwater Elev.:		
						ft	ft	ft	ft	ft	ft	ft
Augered, black, Silty Clay Loam - fill	5					637.14				5	2.5	27.7
	7									7	P	
Very stiff, gray, Silty Clay Loam Till	4									4		
	5									6	2.7	14.4
Very stiff, black brown, Silty Clay Loam - fill with wood debris	7									7	S	
	4									3		
Stiff, brown gray, Silty Clay Loam with pockets of Silt and fine, Sand	3									5	3.1	14.1
	5									8	S	
	3											
	3									3		
	5									5	1.4	25.3
	5									5	S	
Stiff, gray brown, Silty Clay with heavy pockets and seams of brown, Silt	3									4		
	4									4	1.6	24.1
	4									4	S	
Hard, gray, Silty Clay	3									3		
	5									5	4.4	20.2
	7									7	S	
	3									3		
	3									3	4.7	21.1
	7									7	S	
Very stiff, gray, Clay with very minor Silt and minor varved Clay @ 20'-21'	3									3		
	4									4	2.7	24.6
	6									6	S	
	4									4		

1.6 T<sub>1</sub>F × 2 = 3.2 tsf

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

Page 2 of 2

**Illinois Department of Transportation**  
Division of Highways  
District #3, Ottawa

### SOIL BORING LOG

ROUTE SBI-116 (IL 116) DESCRIPTION IL 116 over unnamed creek LOGGED BY Larry Myers  
SECTION 116-B LOCATION NW 1/4, SEC. 29, TWP. 28N, RNG. 10E, 3<sup>rd</sup> PM  
COUNTY Iroquois DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 038-0173  
Station 284+00

BORING NO. #2: SE Quad: E Abut  
Station 284+36  
Offset 49.00ft Right  
Ground Surface Elev. 659.14 ft

Description	DEPTH (ft)	BULGE (in)	SHEAR (tsf)	PENETRATION (%)	MOISTURE (%)	Surface Water Elev.		Stream Bed Elev.		Groundwater Elev.:		
						ft	ft	ft	ft	ft	ft	ft
Very stiff, gray, Silty Clay Loam Till with layers of Sandy Clay Loam Till, Silt and Sand and Gravel (continued)	7									7	3.0	18.0
	7									7	P	
	28									28	>4.5	12.2
	25									25	P	
Hard, gray, Silty Clay Loam Till with layers of Silt and Sand and Gravel @ 54-55' Large, Cobble to Boulder size particles, felt by auger, in the till	13									13		
	16									16	7.1	11.1
	22									22	S	
	9									9		
	16									16	>4.5	13.2
	59									59	P	
	23									23	P	
	9									9		
	16									16	>4.5	19.1
	24									24	P	
Hard, gray Sandy Loam Till High gravel content, size up to Cobble to Boulder	13									13		

Auger refusal @ 65'  
End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED	SDH
CHECKED	JML
DRAWN	JWK/DJM
CHECKED	MSW

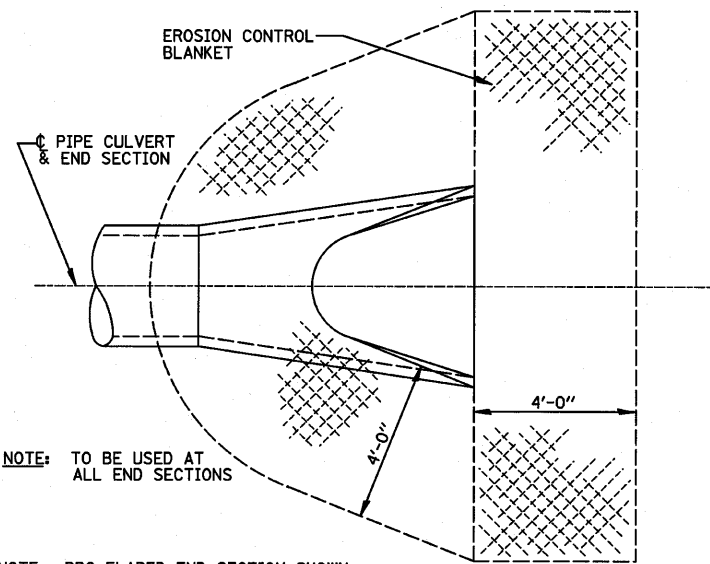
DATE 08/04/10

**SOIL BORING LOGS**  
**STRUCTURE NO. 038-2549**

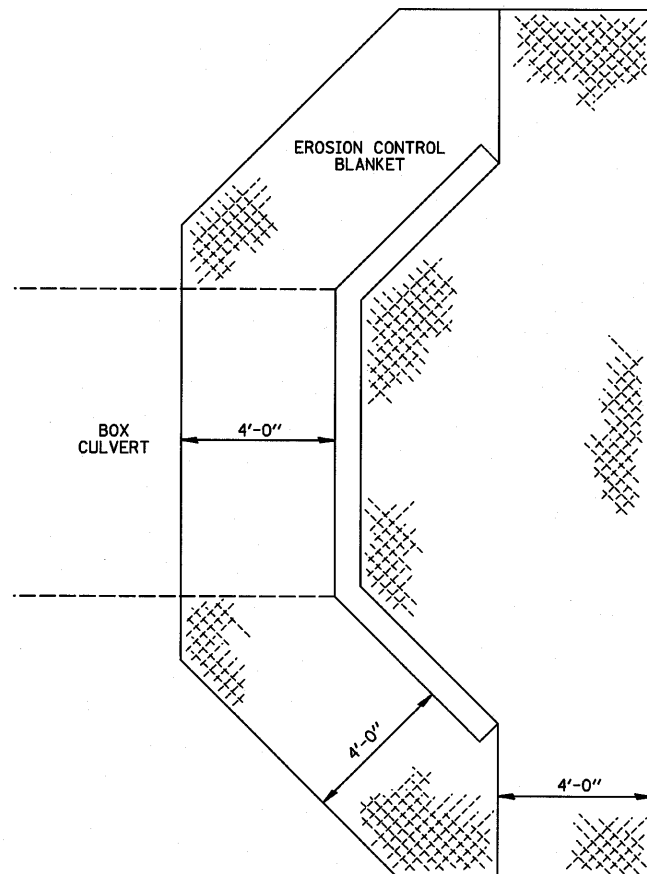
<b>Farnsworth GROUP, INC.</b> 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. F10  10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		681	*	FORD/IROQUOIS	146	113
		FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
				CONTRACT NO. 66880		

\* 116 BR/[116 BR. (RR-2)BR. 1 & RR-31

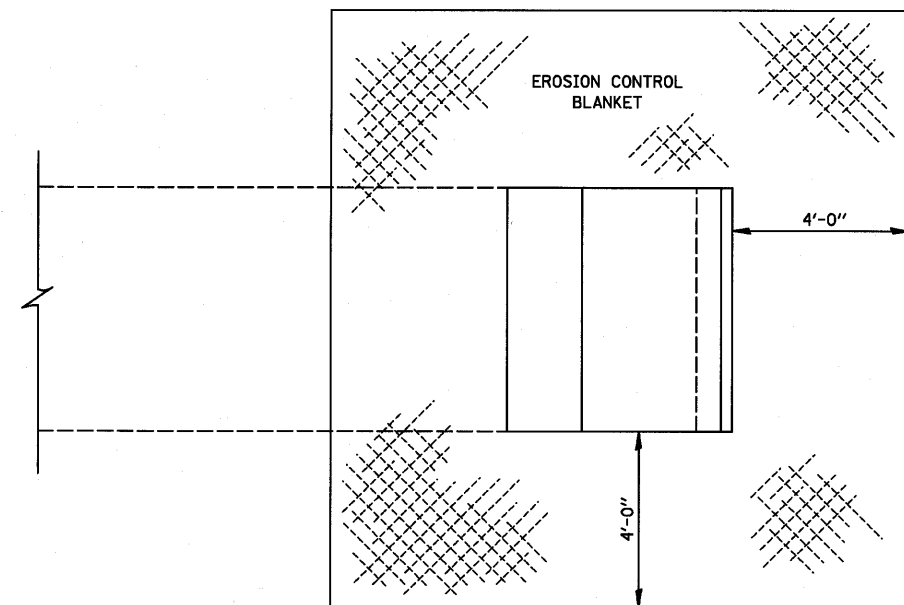
24-8271



**DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION**



**EROSION CONTROL BLANKET AT BOX CULVERT END SECTIONS**



**EROSION CONTROL BLANKET AT PRECAST BOX CULVERT END SECTIONS**

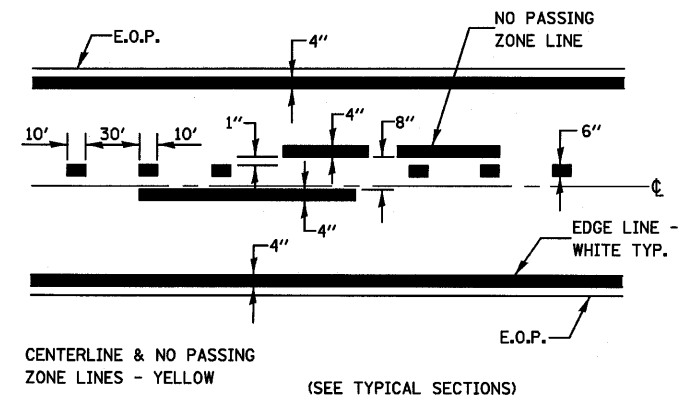
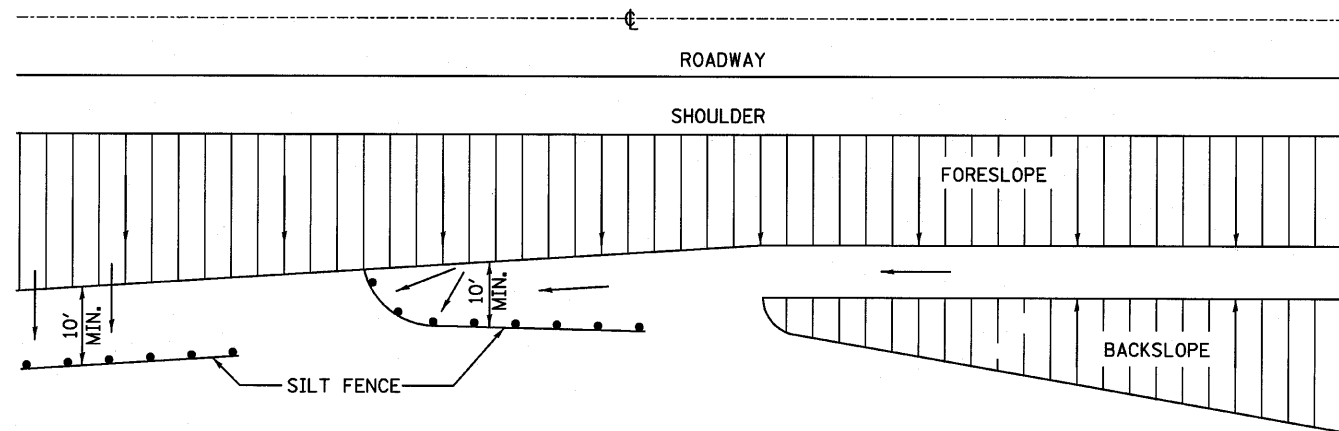
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

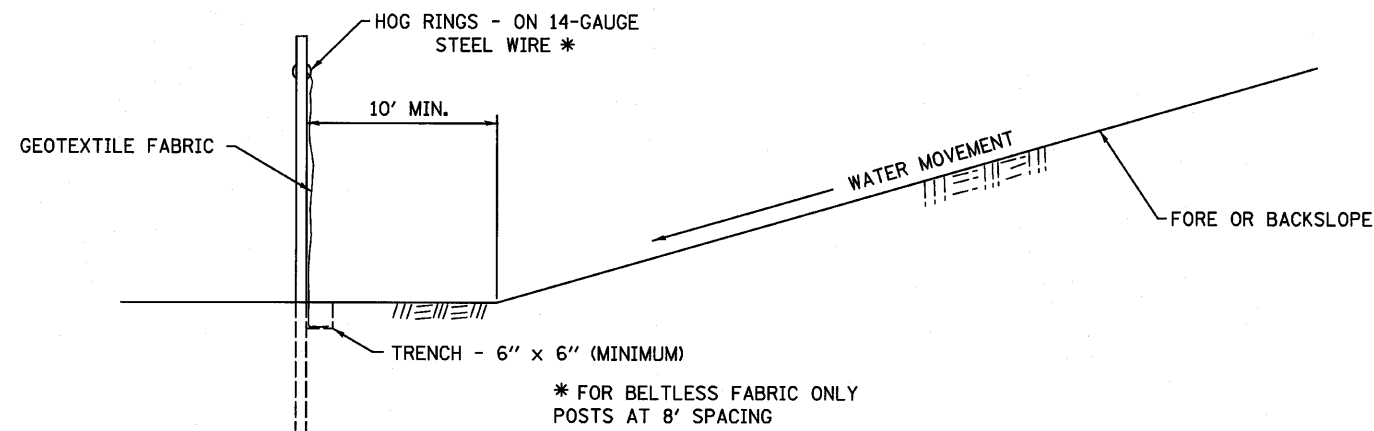
DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/TROQUOIS	146	114
CONTRACT NO. 66880				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

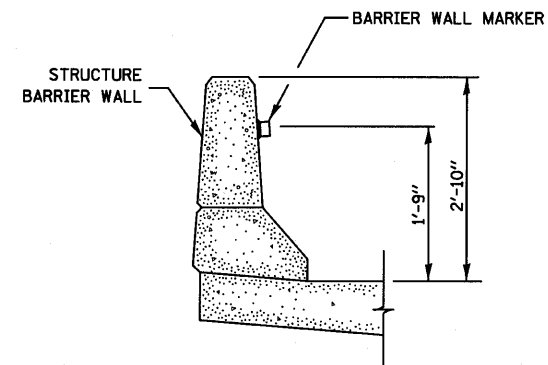


**PAVEMENT MARKING**



DETAILS OF SILT FENCE

**EROSION CONTROL DETAILS FOR SILT FENCE**



**BARRIER WALL MARKER**

FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAILS

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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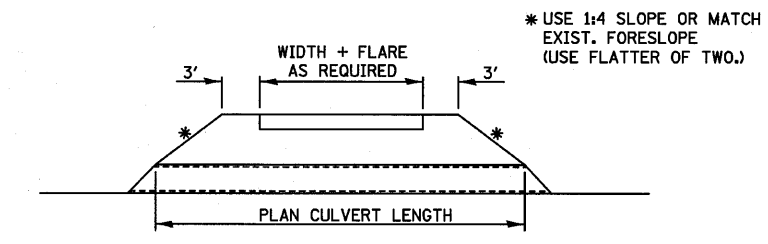
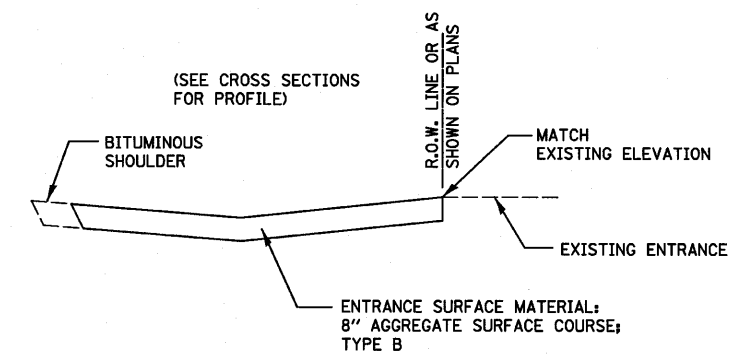
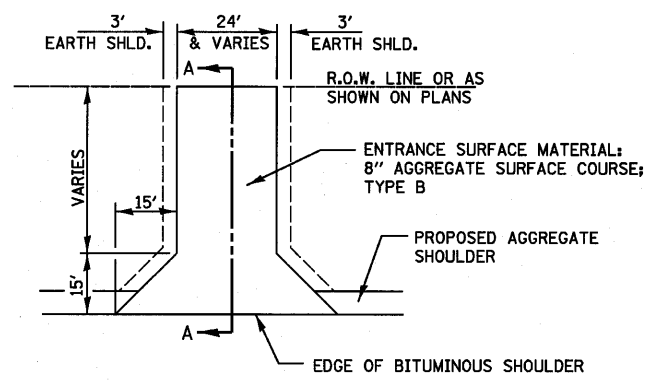
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/TROQUOIS	146	115
CONTRACT NO. 66880				

FARNSWORTH GROUP, INC.

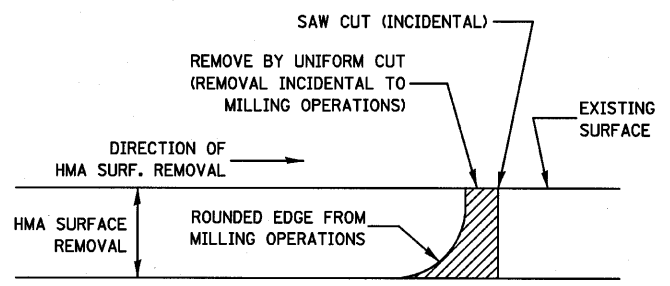
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

\* 116 BR/1116 BR, (BR-2)BR, I & BR-3J

24-8271

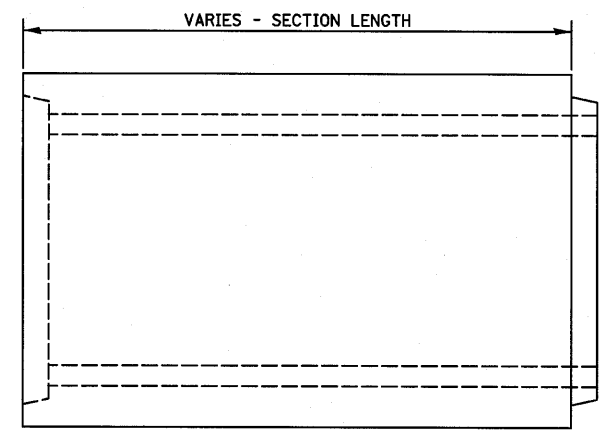
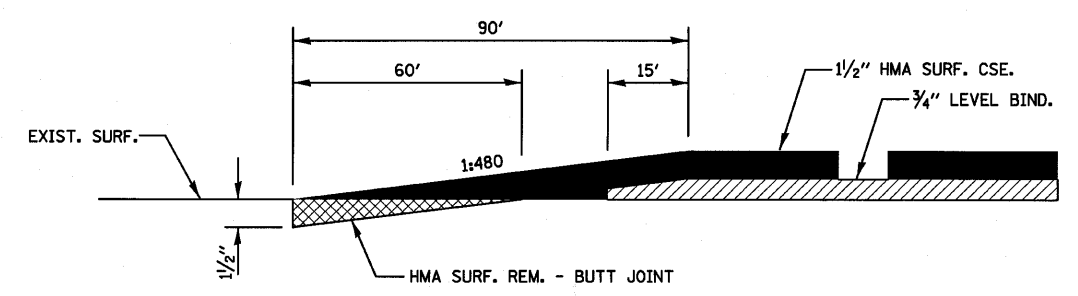


**FIELD ENTRANCE DETAIL**

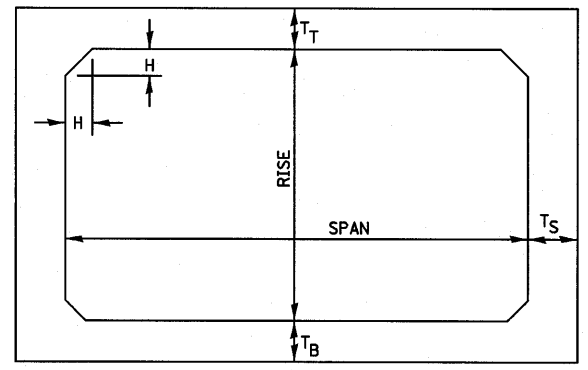


NOTE:  
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

**HMA DETAIL AT BUTT JOINTS**



**ELEVATION**



NOTE: THE HAUNCH DIMENSION H, IS EQUAL TO THE WALL THICKNESS T<sub>S</sub>.

**TYPICAL BOX SECTION**

SPAN, FEET	T <sub>T</sub> , INCHES		T <sub>B</sub> , INCHES		T <sub>S</sub> , INCHES	
	M 259	M 273	M 259	M 273	M 259	M 273
3	4	7	4	6	4	4
4	5	7 1/2	5	6	5	5
5	6	8	6	7	6	6
6	7	8	7	7	7	7
7	8	8	8	8	8	8
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12

**TYPICAL THICKNESSES**

GENERAL NOTES:  
MINIMUM COVER FOR BOX CULVERTS SHALL BE 6".

**PRECAST CONCRETE BOX SECTION**

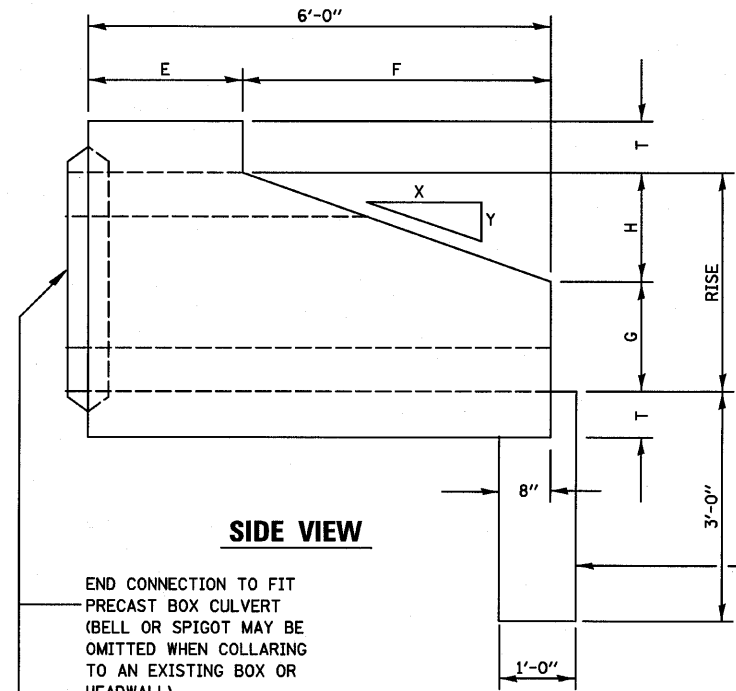
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	PLOT DATE = #DATE*	DATE - 08/04/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

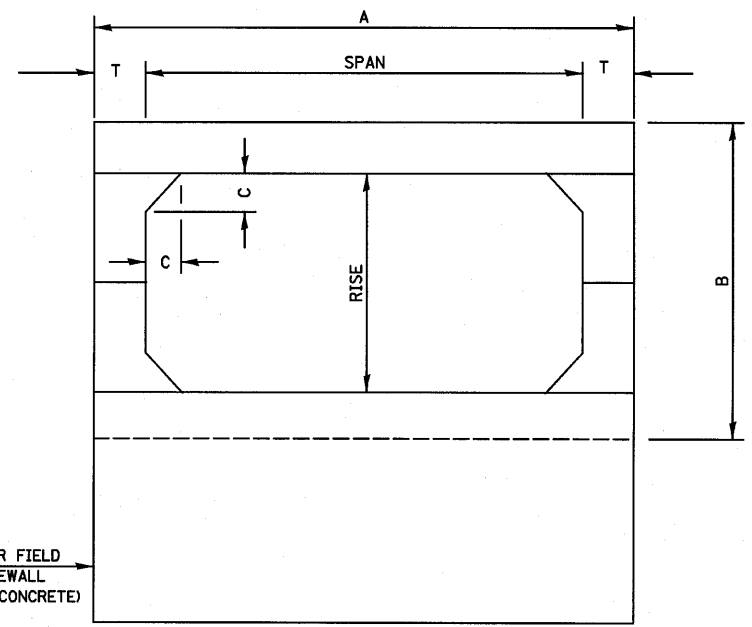
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/TROQUOIS	146	116
CONTRACT NO. 66880				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

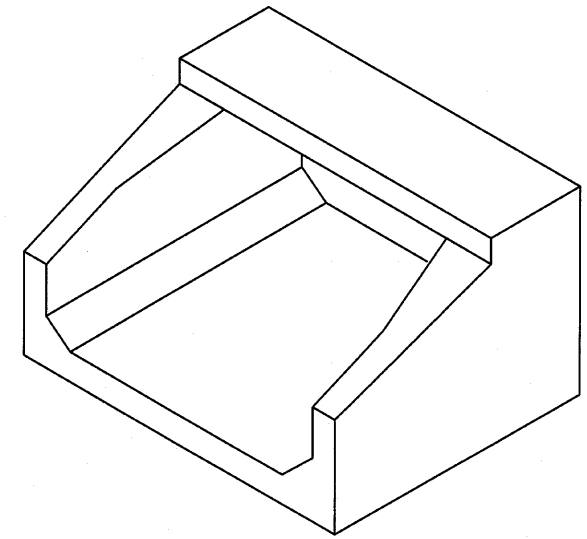




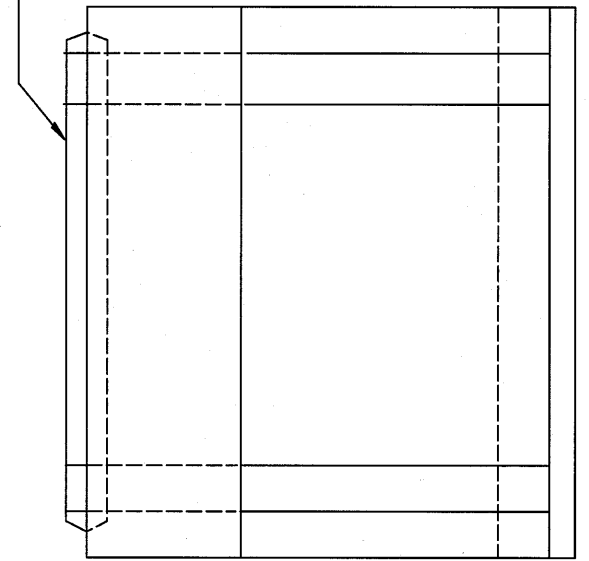
**SIDE VIEW**



**END VIEW**



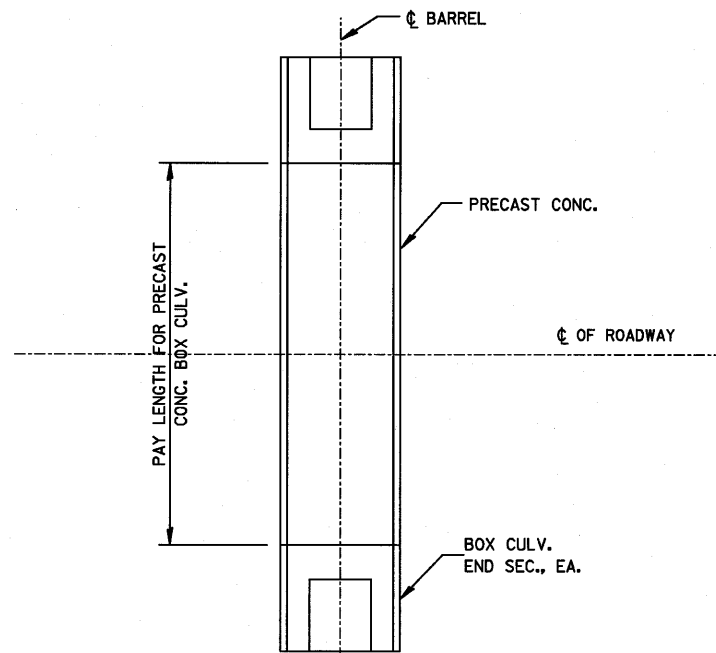
**ISOMETRIC VIEW**



**PLAN**

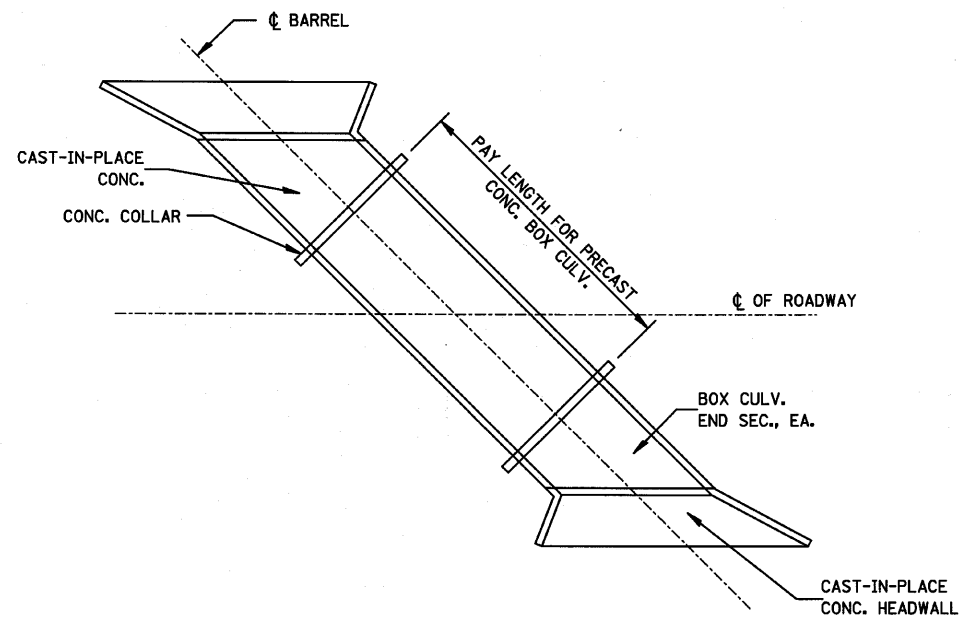
SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)	E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	SLOPE
2' X 2'	4	2 - 8	2 - 8	4	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
3' X 2'	4	3 - 8	2 - 8	4	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
3' X 3'	4	3 - 8	3 - 8	4	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
4' X 2'	5	4 - 10	2 - 10	5	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
4' X 3'	5	4 - 10	3 - 10	5	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
4' X 4'	5	4 - 10	4 - 10	5	2 - 0	4 - 0	2 - 0	2 - 0	2 : 1
5' X 2'	6	6 - 0	3 - 0	6	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
5' X 3'	6	6 - 0	4 - 0	6	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
5' X 4'	6	6 - 0	5 - 0	6	2 - 0	4 - 0	2 - 0	2 - 0	2 : 1
5' X 5'	6	6 - 0	6 - 0	6	4 - 0	3 - 0	3 - 0	2 - 0	2 : 1
6' X 2'	7	7 - 2	3 - 2	7	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
6' X 3'	7	7 - 2	4 - 2	7	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
6' X 4'	7	7 - 2	5 - 2	7	2 - 0	4 - 0	2 - 0	2 - 0	2 : 1
6' X 5'	7	7 - 2	6 - 2	7	4 - 0	3 - 0	3 - 0	2 - 0	2 : 1
7' X 3'	8	8 - 4	4 - 4	8	4 - 0	1 - 8	1 - 4	1 - 4	3 : 1
7' X 4'	8	8 - 4	5 - 4	8	4 - 0	2 - 0	2 - 0	2 - 0	2 : 1
7' X 5'	8	8 - 4	6 - 4	8	4 - 0	3 - 0	2 - 0	2 - 0	2 : 1
8' X 3'	8	9 - 4	4 - 4	8	4 - 0	1 - 8	1 - 4	1 - 4	3 : 1
8' X 4'	8	9 - 4	5 - 4	8	4 - 0	2 - 0	2 - 0	2 - 0	2 : 1
8' X 5'	8	9 - 4	6 - 4	8	4 - 0	3 - 0	2 - 0	2 - 0	2 : 1
9' X 3'	9	10 - 6	4 - 6	9	4 - 0	1 - 8	1 - 4	1 - 4	3 : 1
9' X 4'	9	10 - 6	5 - 6	9	4 - 0	2 - 0	2 - 0	2 - 0	2 : 1
9' X 5'	9	10 - 6	6 - 6	9	4 - 0	3 - 0	2 - 0	2 - 0	2 : 1
10' X 4'	10	11 - 8	5 - 9	10	4 - 0	2 - 0	2 - 0	2 - 0	2 : 1
10' X 5'	10	11 - 8	6 - 8	10	4 - 0	3 - 0	2 - 0	2 - 0	2 : 1

**PRECAST CONCRETE BOX CULVERT END SECTION**



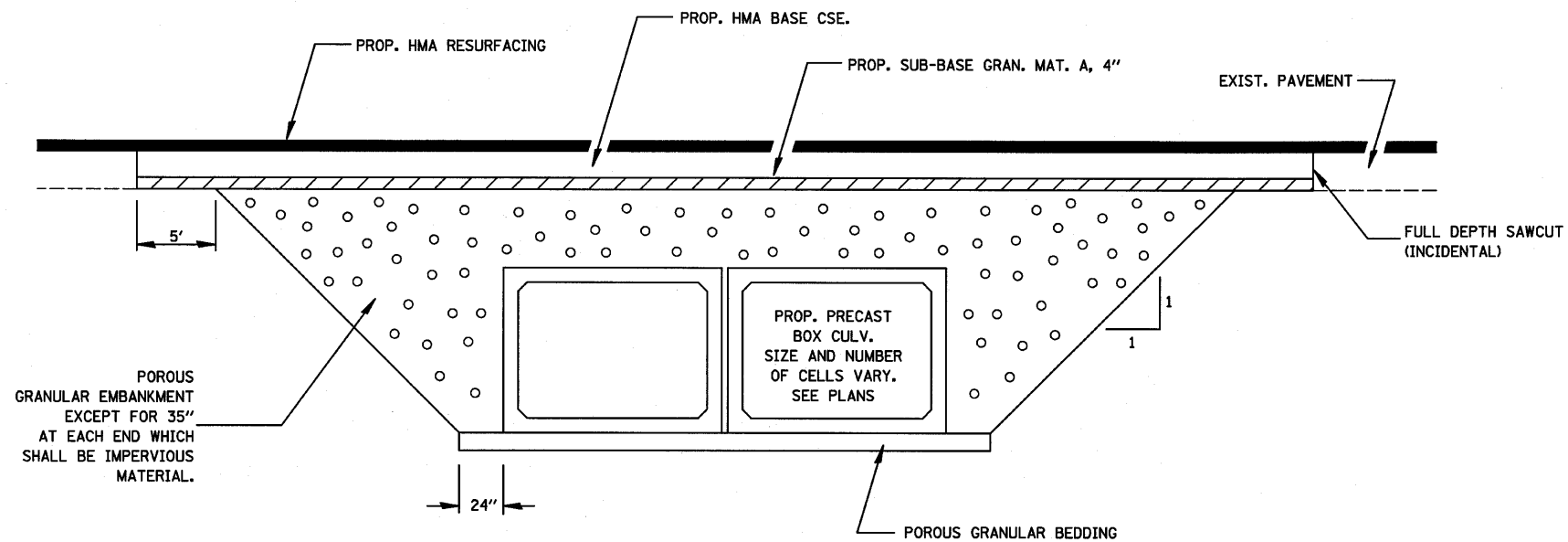
**PAY LENGTH FOR PRECAST CONCRETE  
BOX CULVERT AT RIGHT ANGLES WITH ROADWAY**

N.T.S.



**PAY LENGTH FOR PRECAST CONCRETE  
BOX CULVERT SKEWED WITH ROADWAY**

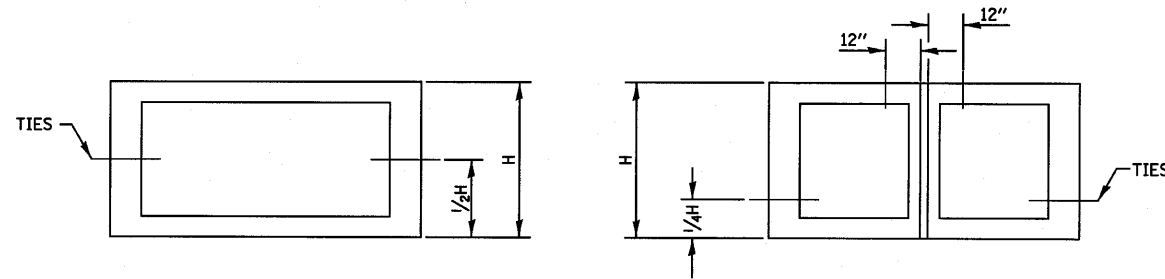
N.T.S.



**SECTION THROUGH PRECAST BOX CULVERT**

FILE NAME =	USER NAME = #USER*	DESIGNED - JML	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - DJM	REVISED -		681	*	FORD/IROQUOIS	146	118			
	PLOT SCALE = #SCALE*	CHECKED - MSW	REVISED -		CONTRACT NO. 66880							
	PLOT DATE = #DATE*	DATE - 08/04/10	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

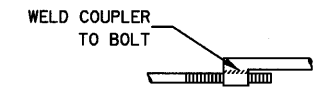
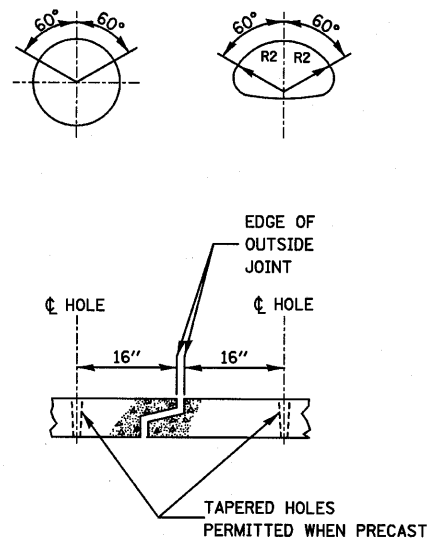
THE CULVERT TIES SHALL BE INCLUDED IN THE COST OF THE CONCRETE PIPE CULVERTS OR THE PRECAST CONCRETE BOX CULVERT. THE MECHANICAL TIES SHALL BE ON THE OUTSIDE OF THE CULVERT. THE NUTS AND WASHERS SHALL BE PLACED ON THE INSIDE OF THE CULVERT AND COVERED WITH MASTIC JOINT SEALER CONFORMING TO ARTICLES 1055 OR 1056 IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



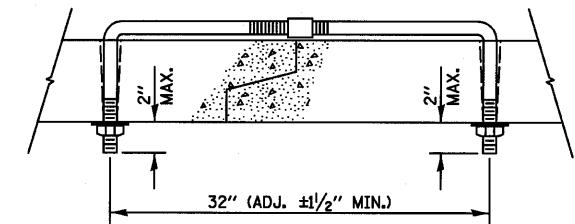
PLACEMENT OF HOLES		
BOX CULVERT FEET	PIPE SIZE INCHES	THREAD DIAMETER INCHES
	12	5/8
	15	ROLLED THREADS (SEE NOTE 4)
	18	
	21	
	24	
	27	
	30	
3 x 2	33	3/4 CUT OR ROLLED
3 x 3	36	
4 x 2	42	
4 x 3	48	
4 x 4	54	
5 x 3	60	1 CUT OR ROLLED
5 x 4	66	
5 x 5	72	
6 x *	78	
7 x *	84	
8 x *	90	
9 x *	96	
10 x *	102	
	108	
	120	
	132	1 1/4
11 x * AND GREATER	138 AND GREATER	

**NOTES:**

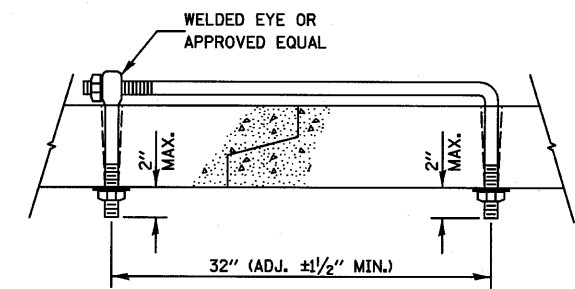
- HOLES SHALL BE CAST-IN OR DRILLED 16" FROM OUTSIDE EDGE OF JOINT.
- NUTS AND WASHERS ARE NOT REQUIRED ON INSIDE OF 27" DIAMETER PIPE OR LESS.
- TIES ARE NOT REQUIRED FOR BELL PIPE 24" AND SMALLER. ON OTHER SIZES TIE MAY BE INSERTED FROM INSIDE.
- CUT THREADS MAY BE USED IF WASHER AND NUT ARE USED.
- PIPE SIZE LISTED IS INSIDE DIAMETER OF ROUND PIPE OR EQUIVALENT DIAMETER OF PIPE ARCH OR ELLIPTICAL.
- GALVANIZING OF TIES IS REQUIRED.



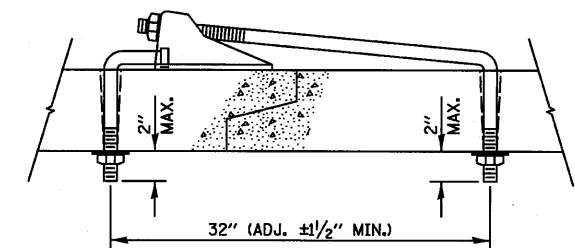
**TOP VIEW**



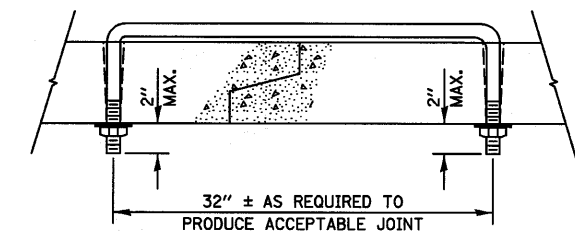
**ADJUSTABLE TIE**



**EYE BOLT TIE**



**CANOPY TIE**

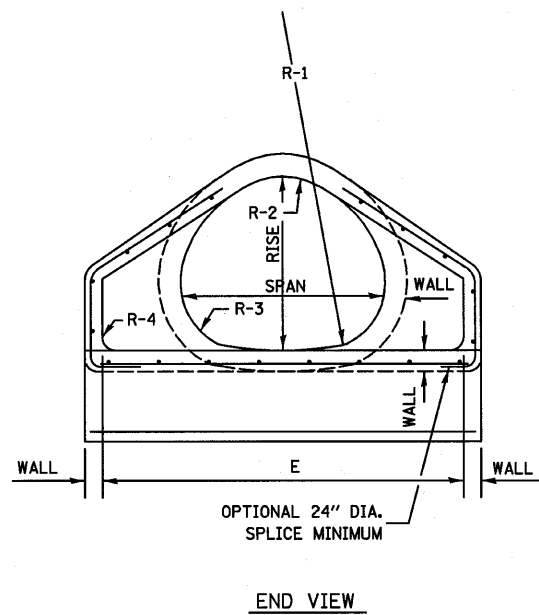
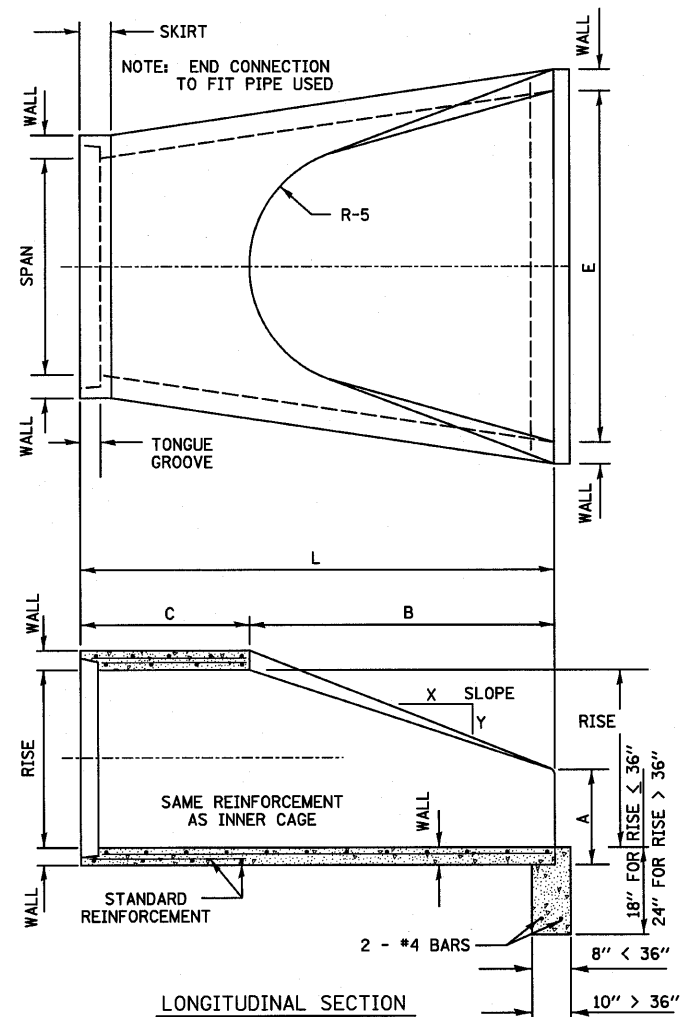


**U BOLT TIE**

**MECHANICAL JOINTS FOR CONCRETE PIPE AND BOX CULVERTS**

FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS</b>			F.A.P. RTE. 681	SECTION *	COUNTY FORD/IROQUOIS	TOTAL SHEETS 146	SHEET NO. 119
#FILE#		DRAWN - DJM	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	CONTRACT NO. 66880	
		CHECKED - MSW	REVISED -									
		DATE - 08/04/10	REVISED -									

SIZE	WALL	SPAN	RISE	L	B	C	E	A	SLOPE	R-1	R-2	R-3	R-4	R-5
18"	2 1/2"	22"	13 1/2"	72"	27"	45"	36"	7"	2.16:1	27 1/2"	13 3/4"	5 1/4"	2"	12"
24"	3"	28 1/2"	18"	72"	39"	33"	48"	8"	2.29:1	40 1/8"	14 9/16"	4 1/8"	3"	14"
30"	3 1/2"	36 1/4"	22 1/2"	72"	48"	24"	60"	10"	2.34:1	51"	18 3/4"	6 1/8"	3"	15"
36"	4"	43 3/4"	26 5/8"	96"	60"	36"	72"	10 5/8"	2.4:1	62"	22 1/2"	6 1/2"	6"	20"
42"	4 1/2"	51 1/8"	31 3/8"	96"	60"	36"	78"	15 9/16"	2.35:1	73"	26 1/4"	7 3/4"	6"	22"
48"	5"	58 1/2"	36"	96"	60"	36"	84"	21"	2.31:1	84"	30"	8 1/8"	6"	22"
54"	5 1/2"	65"	40"	96"	60"	36"	90"	25 1/2"	2.26:1	92 1/2"	33 3/8"	10"	6"	24"
60"	6"	73"	45"	96"	75"	21"	96"	26"	2.34:1	105"	37 1/2"	11 1/16"	6"	21"
72"	7"	88"	54"	100"	78"	22"	120"	35"	2.29:1	126"	45"	13 5/16"	6"	24"



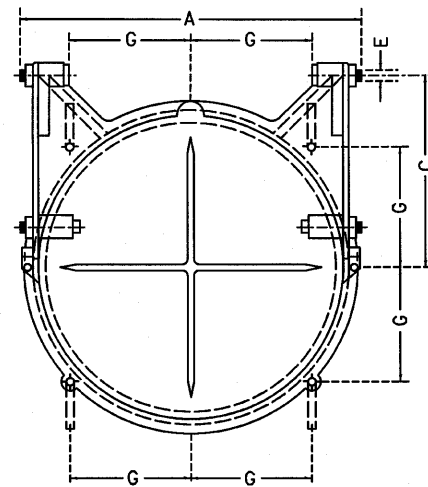
**NOTES:**

PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENT OF AASHTO M-206.

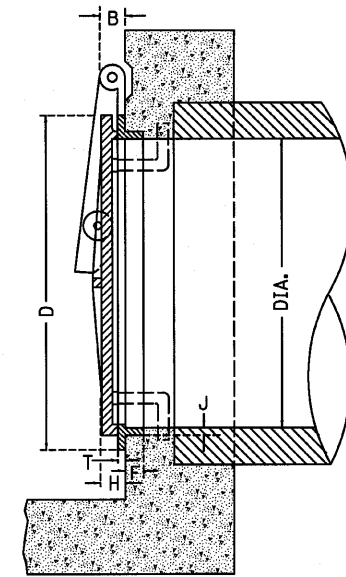
PRECAST CONCRETE FLARED END SECTION FOR PIPE ARCH DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.

THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS, COST INCLUDED IN THE END SECTION.

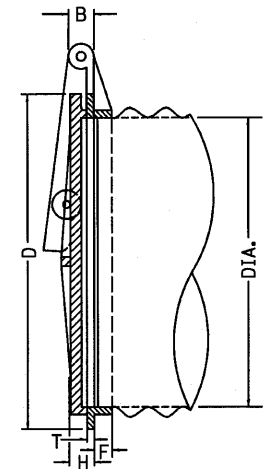
**PRECAST REINFORCED CONCRETE  
ARCH DIAMETER FLARED END SECTION**



**FRONT ELEVATION**



**SECTION**



**SECTION SHOWING METHOD OF  
APPLICATION TO CORRUGATED  
METAL PIPE**

IT IS INTENDED THAT THE AUTOMATIC FLAP GATES SHALL BE A COMMERCIAL PRODUCT PRODUCED BY A RELIABLE MANUFACTURER. THE GATE MAY BE MADE OF CAST IRON, CAST STEEL OR OTHER SUITABLE MATERIALS. THE DESIGN MAY DIFFER FROM THE DRAWING IF IT WILL WORK IN A SATISFACTORY, TROUBLE FREE MANNER AND WILL WITHSTAND THE WATER PRESSURE AT THE INSTALLATION LOCATION. THE GATE SHALL BE APPROVED BY THE ENGINEER.

THE SIZE OF AUTOMATIC FLAP GATES SHALL REFER TO THE DIAMETER OF THE OUTLET PIPE OR OPENING.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR FLAP GATES OF THE SIZE SPECIFIED AND SHALL INCLUDE ALL MATERIALS AND COMPLETE INSTALLATION.

**TABLE OF DIMENSIONS**

DIAM	A	B	C	D	E	F	G	H	J	T
8"	10 3/4"	1 3/8"	5 1/16"	10"	1/2"	1 1/8"	3 9/16"	1 1/4"	3/8"	3/8"
10"	12 3/4"	1 3/8"	7 1/8"	12 1/4"	1/2"	1 1/8"	4 3/8"	1 1/2"	1/2"	1/16"
12"	14 3/4"	1 3/8"	8 1/2"	14 1/2"	1/2"	1 1/8"	5 1/8"	1 1/2"	1/2"	1/2"
14"	17 1/4"	1 3/8"	9 7/8"	16 3/4"	1/2"	1 1/4"	5 15/16"	1 1/2"	1/2"	9/16"
15"	17 3/4"	1 3/8"	10 5/8"	17 3/4"	1/2"	1 1/4"	6 1/4"	1 1/2"	1/2"	9/16"
16"	19 1/4"	1 3/8"	11 1/4"	18 3/4"	1/2"	1 1/4"	6 5/8"	1 1/2"	1/2"	9/16"
18"	22 1/4"	2"	12 5/8"	21"	3/4"	1 9/16"	7 1/16"	1 3/4"	9/16"	9/16"
20"	24 3/4"	2"	14 1/8"	23 3/4"	3/4"	1 3/8"	8 1/4"	1 3/4"	5/8"	5/8"
21"	25 1/4"	2"	14 1/8"	24 1/4"	3/4"	1 3/8"	8 9/16"	1 3/4"	5/8"	5/8"
24"	28 1/4"	2"	17"	27 1/2"	3/4"	1 1/2"	9 3/4"	1 3/4"	5/8"	5/8"
30"	35 1/4"	2 1/2"	20 1/2"	34"	1"	1 9/16"	12"	2"	1 1/16"	5/8"
36"	41 1/2"	2 1/2"	25"	40 7/8"	1"	2 1/16"	14 7/16"	2 1/4"	1 1/8"	1/16"
42"	47 1/2"	2 1/2"	29 3/4"	47"	1"	2 5/16"	16 5/8"	2 1/4"	1 1/8"	3/4"
48"	53 1/2"	2 1/2"	34"	54"	1"	2 3/4"	19 1/16"	2 1/4"	1 3/8"	3/4"
54"	60 3/4"	2 1/2"	38"	62 1/4"	1 1/4"	2 3/4"	22"	3"	1 1/2"	7/8"
60"	67"	2 1/2"	42"	68 1/2"	1 1/4"	42"	24 1/4"	3"	1 1/2"	15/16"
66"	73 3/8"	2 1/2"	47"	75"	1 1/4"	2 1/8"	26 1/2"	3"	1 1/2"	1"
72"	79"	2 1/2"	51"	82"	1 1/4"	3"	29"	3"	1 1/2"	1"
78"	86"	2 1/2"	55 1/4"	88 3/4"	1 1/4"	3 1/2"	31 3/8"	3"	1 5/8"	1 1/8"
84"	92 1/2"	3 1/2"	59 1/2"	95 1/2"	1 1/2"	3 1/2"	33 3/4"	3"	1 3/4"	1 1/4"

**AUTOMATIC FLAP GATES**

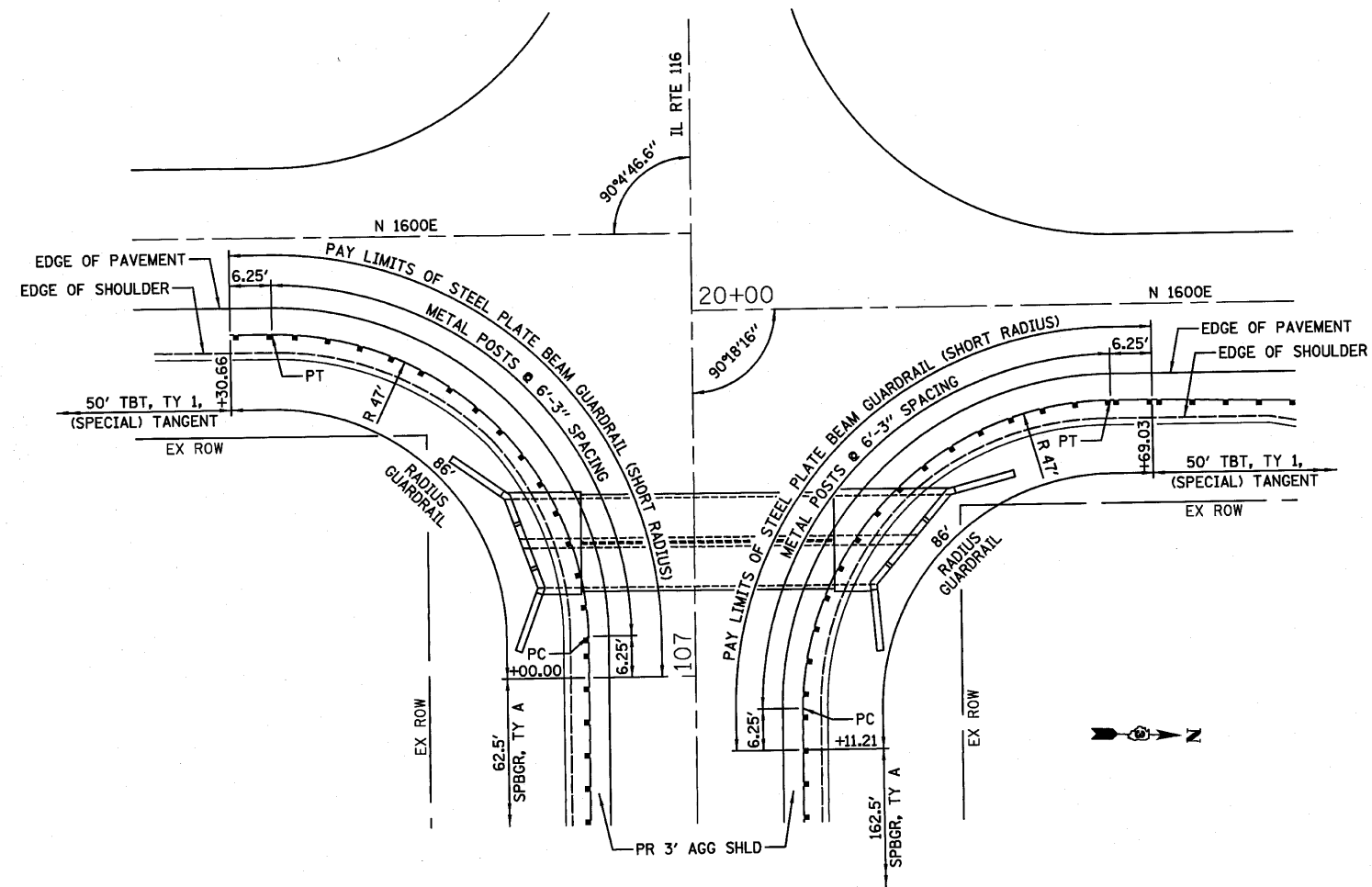
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	PLOT DATE = #DATE*	DATE - 08/04/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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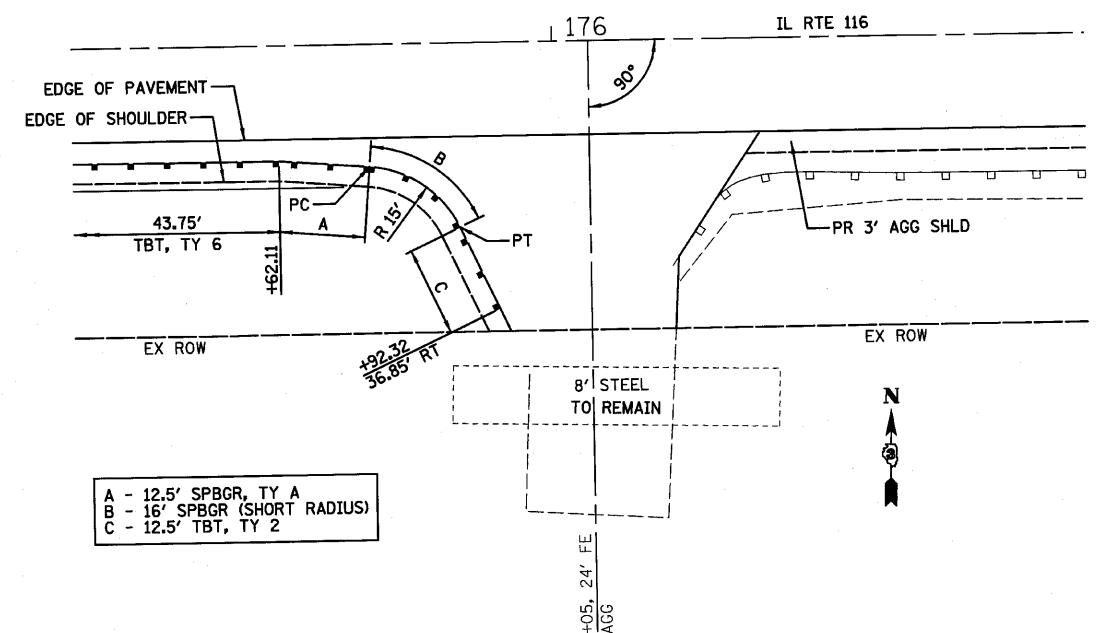
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/IROQUOIS	146	120
CONTRACT NO. 66880				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



### STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)

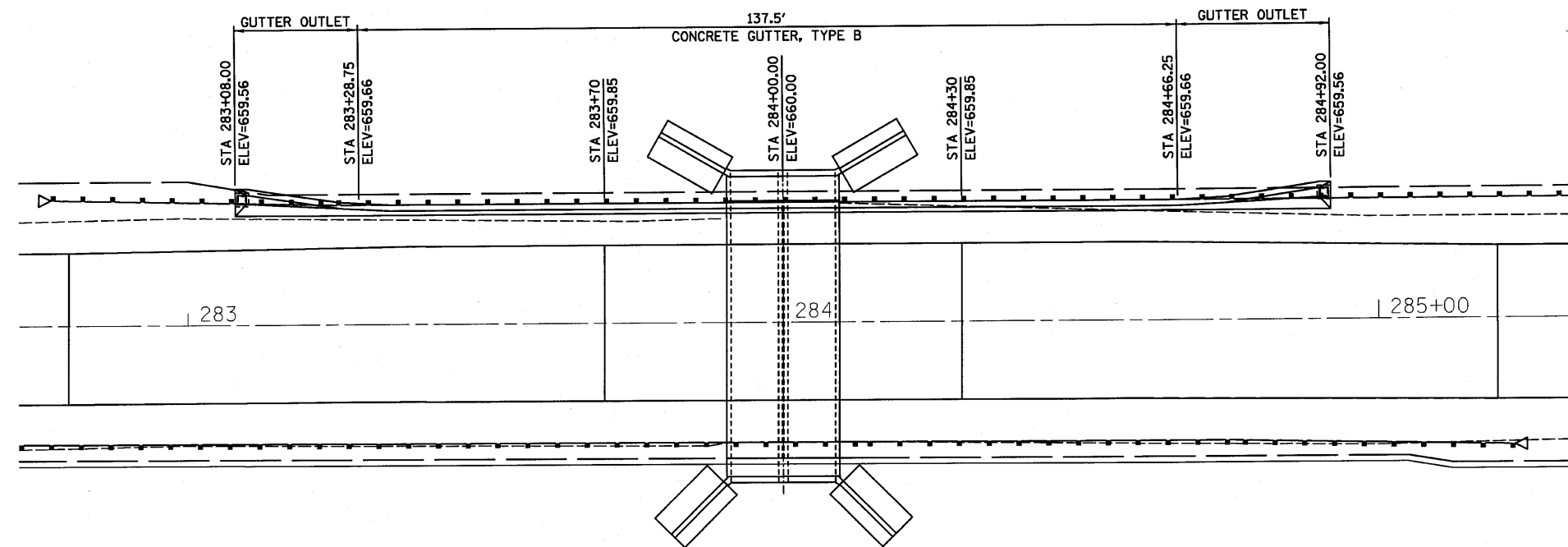
**NOTES:**

- 1.) SEE HIGHWAY STANDARD 630001 FOR STEEL PLATE BEAM GUARDRAIL.
- 2.) SEE HIGHWAY STANDARD 630101 FOR GUARDRAIL MOUNTED ON EXISTING CULVERTS.



### STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - JML	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS</b>			F.A.P. RTE. 681	SECTION *	COUNTY FORD/IROQUOIS	TOTAL SHEETS 146	SHEET NO. 121
	PLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. * 116 BR/1116 BR, (BR-2)BR, 1 & BR-31	ILLINOIS FED. AID PROJECT	24-8271		
PLOT DATE = #DATE#	DATE - 08/04/10	REVISED -		CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX								



**CONCRETE GUTTER, TYPE B WITH GUTTER OUTLET DETAIL**



FILE NAME =	USER NAME = *USER*	DESIGNED - JML	REVISED -
*FILEL*		DRAWN - DJM	REVISED -
	PLOT SCALE = *SCALE*	CHECKED - MSW	REVISED -
	PLOT DATE = *DATE*	DATE - 08/04/10	REVISED -

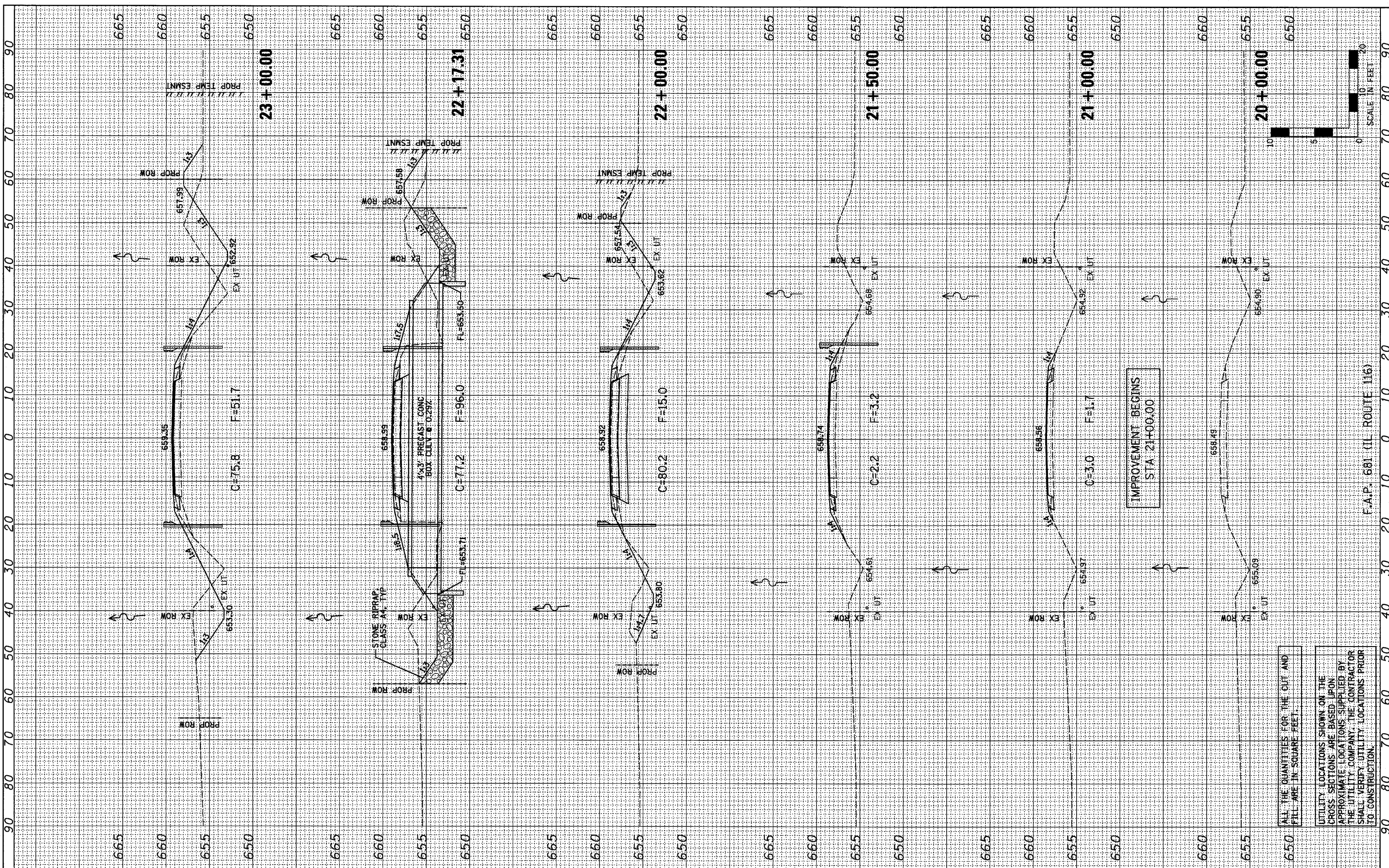
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAILS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 681	SECTION *	COUNTY FORD/IROQUOIS	TOTAL SHEETS 146	SHEET NO. 122
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 66880
* 116 BR/1116 BR, (BR-2)BR, I & BR-3J				24-8271

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

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



FILE NAME =	USER NAME = *USER*	DESIGNED - JML	REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b>		F.A.P. RTE. 681	SECTION *	COUNTY FORD/TROQUAIS	TOTAL SHEETS 146	SHEET NO. 123	
*FILE#	PLOT SCALE = *SCALE*	CHECKED - MSW	REVISED -		SCALE: 1"=10'	SHEET NO. OF SHEETS	STA. 20+00.00 TO STA. 23+00.00	S.N. 027-2018		CONTRACT NO. 66880		
	PLOT DATE = *DATE*	DATE - 08/04/10	REVISED -		F.A.P. 681 (IL ROUTE 116)							
FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX												

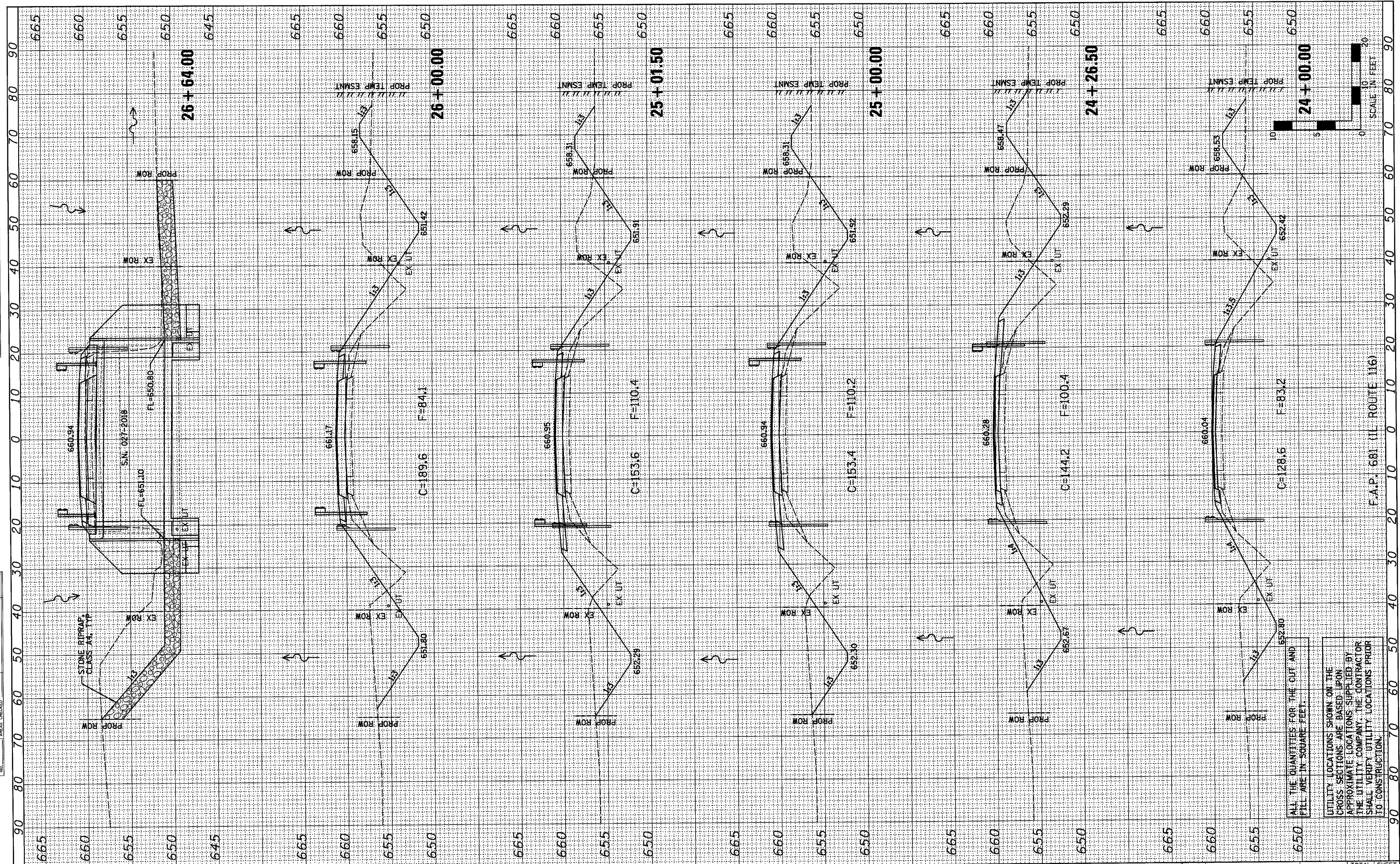
ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

IMPROVEMENT BEGINS STA 21+00.00

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

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



FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -
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	PLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -
	PLOT DATE = #DATE#	DATE - 08/04/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

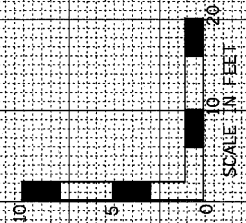
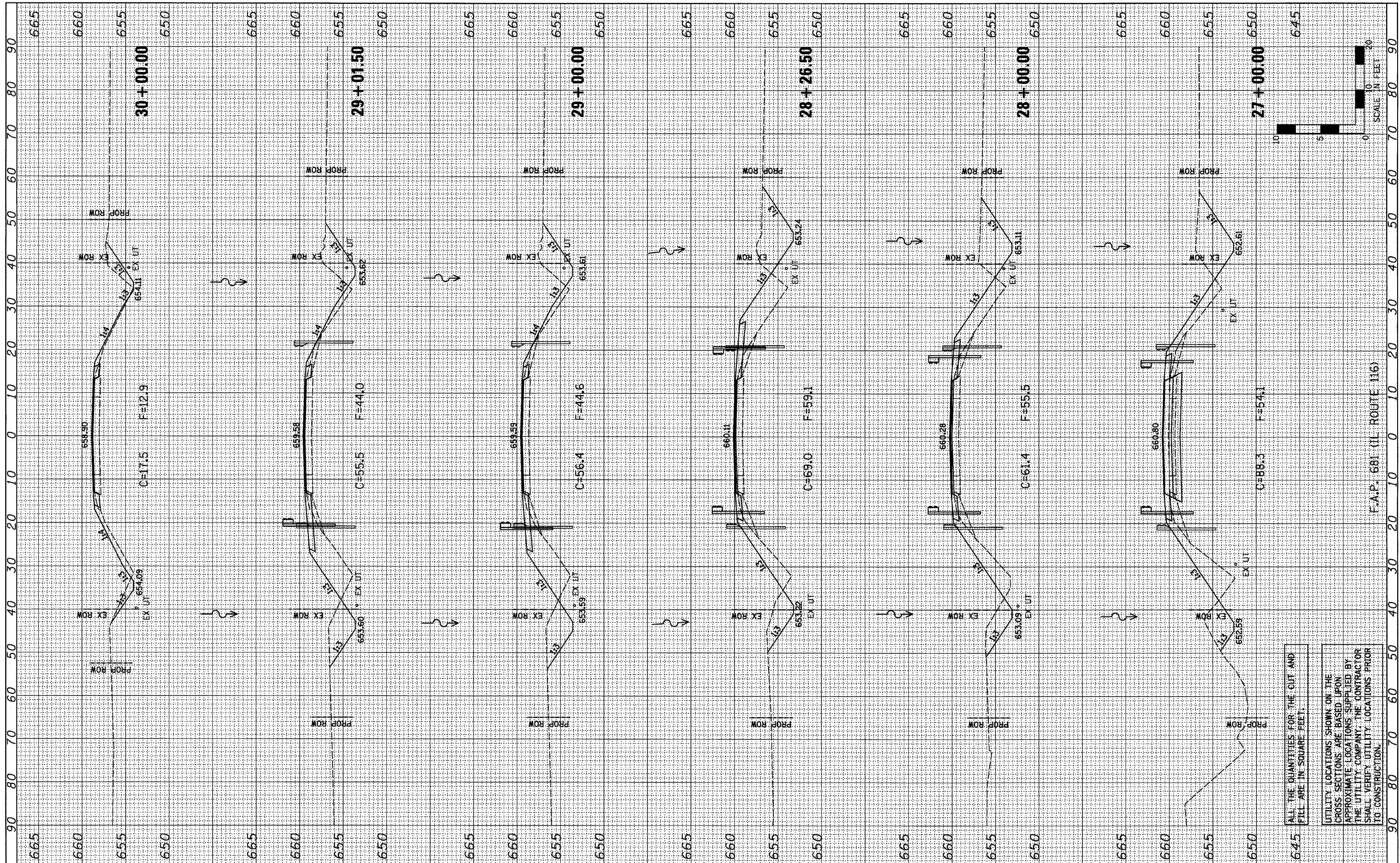
CROSS SECTIONS			
SCALE: 1"=10'	SHEET NO.	OF SHEETS	STA. 24+00.00 TO STA. 26+64.00

F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 124
S.N. Q27-2018		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* 116 BR/1116 BR, (BR-2)BR, I & BR-3J				



FINISH SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

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



FILE NAME =  
#FILE#

USER NAME = #USER#  
DESIGNED - JML  
DRAWN - JUO  
CHECKED - MSW  
DATE - 08/04/10

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. OF SHEETS STA. 27+00.00 TO STA. 30+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/IROQUOIS	146	125
S.N. 027-2018		CONTRACT NO. 66880		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

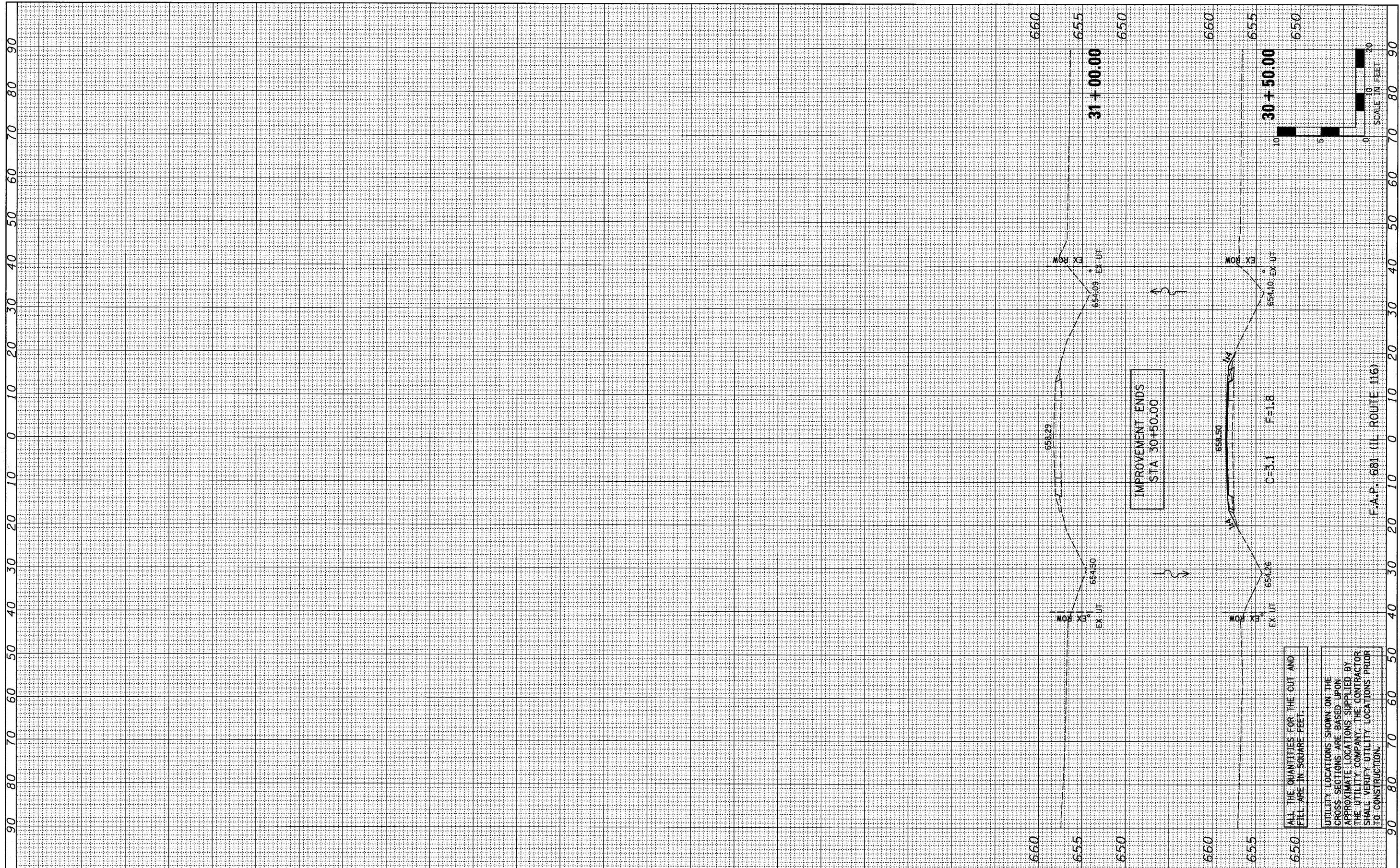
ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

F.A.P. 681 (IL ROUTE 116)

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

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



FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -
#FILE#		DRAWN - JJO	REVISED -
	PLLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -
	PLLOT DATE = #DATE#	DATE - 08/04/10	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 126
SCALE: 1"=10'	SHEET NO. OF SHEETS	STA. 30+50.00	TO STA. 31+00.00	S.N. 027-2018	CONTRACT NO. 66880	
				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	* 116 BR/116 BR, (BR-2)BR, I & BR-31	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 126
SCALE: 1"=10'	SHEET NO. OF SHEETS	STA. 30+50.00	TO STA. 31+00.00	S.N. 027-2018	CONTRACT NO. 66880	
				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	* 116 BR/116 BR, (BR-2)BR, I & BR-31	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 126
SCALE: 1"=10'	SHEET NO. OF SHEETS	STA. 30+50.00	TO STA. 31+00.00	S.N. 027-2018	CONTRACT NO. 66880	
				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	* 116 BR/116 BR, (BR-2)BR, I & BR-31	

FARNSWORTH GROUP, INC.

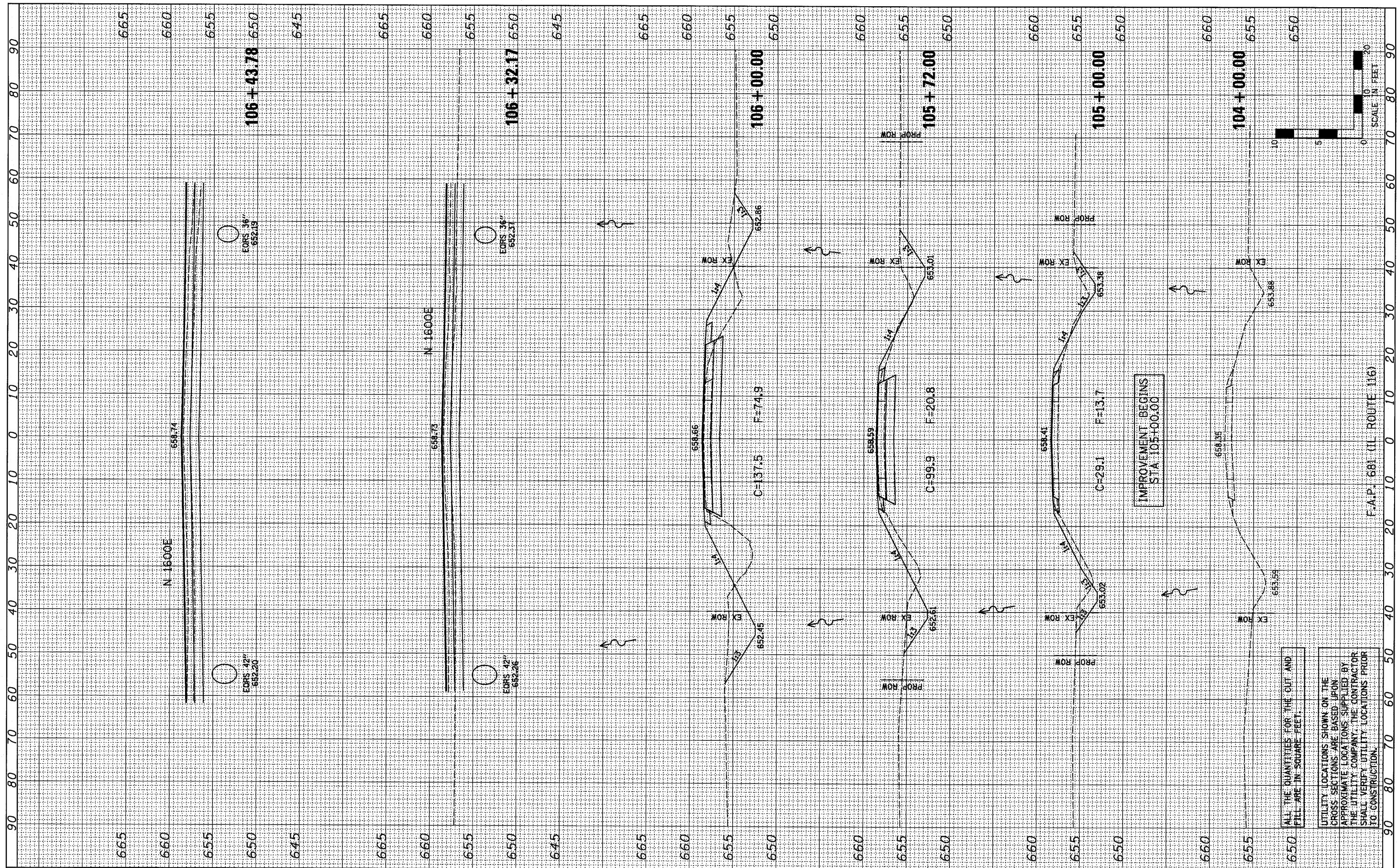
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

\* 116 BR/116 BR, (BR-2)BR, I & BR-31

24-8271

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

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



FILE NAME = #FILEL\*  
 USER NAME = #USER\*  
 PLOT SCALE = #SCALE\*  
 PLOT DATE = #DATE\*

DESIGNED - JML  
 DRAWN - JJO  
 CHECKED - MSW  
 DATE - 08/04/10

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10'  
 SHEET NO. OF SHEETS STA. 104+00.00 TO STA. 106+43.78

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/TROQUOIS	146	127
S.N. 027-2553		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

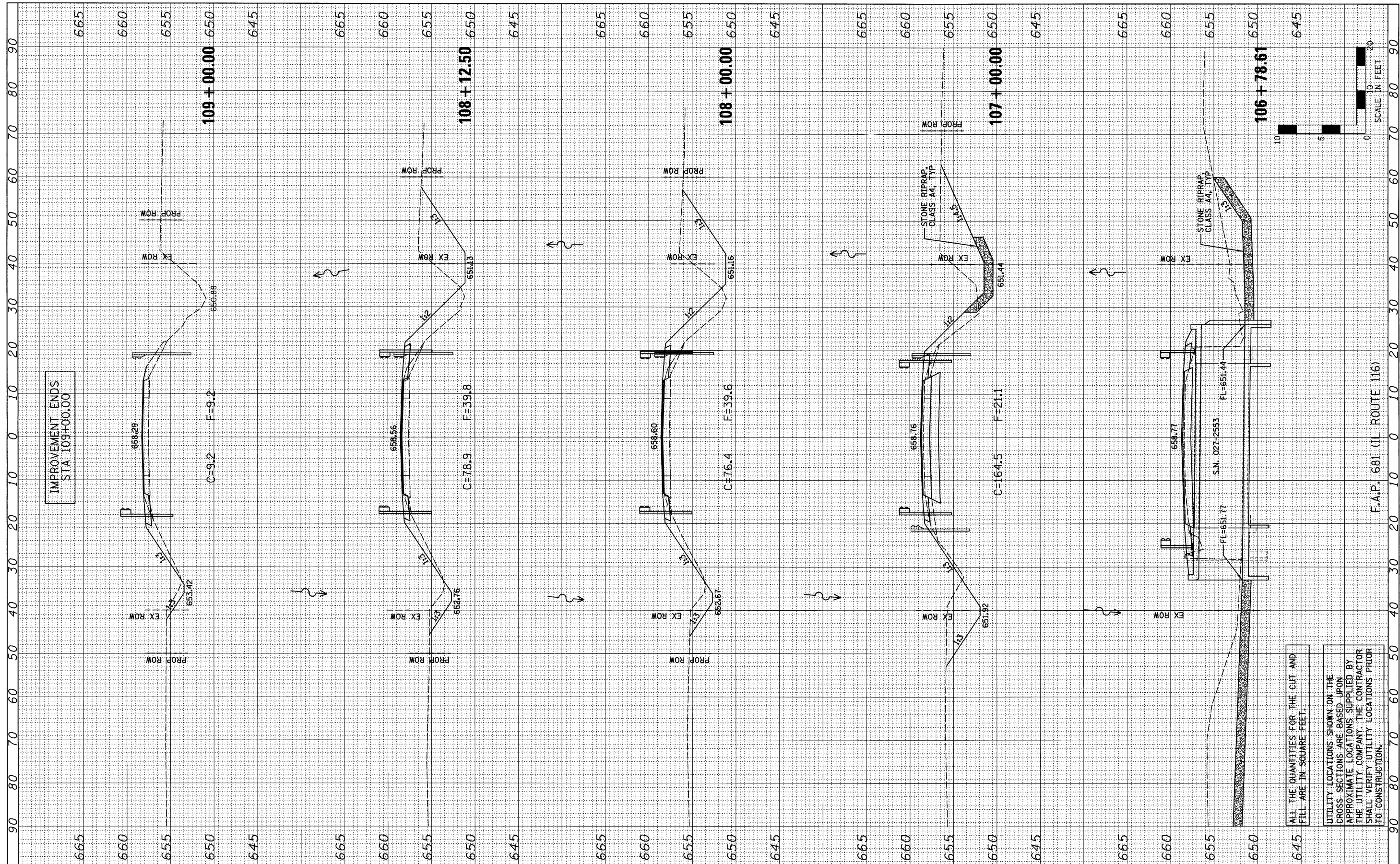
ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

F.A.P. 681 (IL ROUTE 116)

FINAL SURVEY	REVISIONS	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	REVISIONS	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	CHECKED		



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

FILE NAME =  
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USER NAME = #USER#  
PLOT SCALE = #SCALE#  
PLOT DATE = #DATE#

DESIGNED - JML  
DRAWN - JJO  
CHECKED - MSW  
DATE - 08/04/10

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

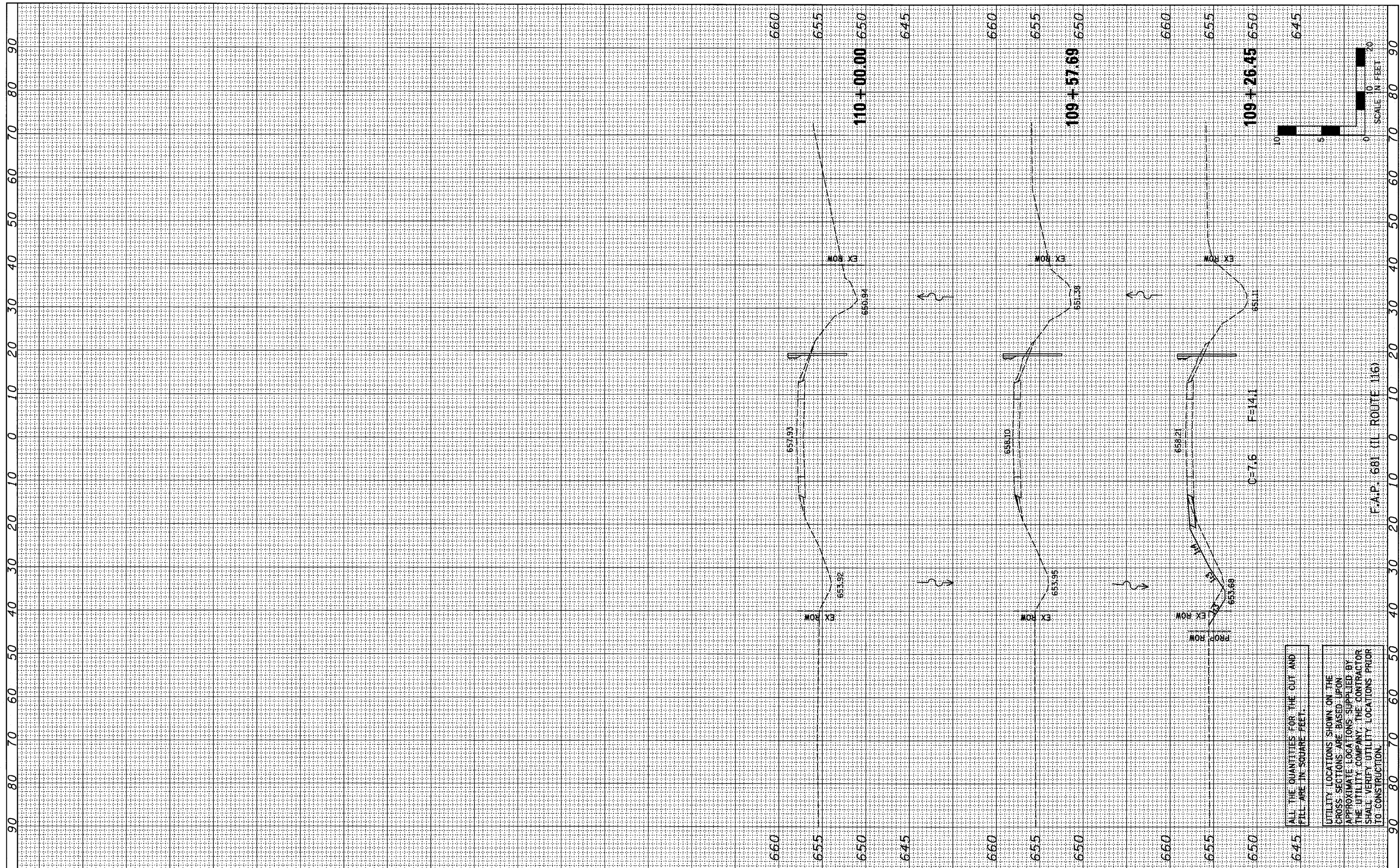
**CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. OF SHEETS STA. 106+78.61 TO STA. 109+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/IRROQUOIS	146	128
S.N. 027-2553		CONTRACT NO. 66880		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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



FILE NAME =  
#FILE#

USER NAME = #USER#	DESIGNED - JML	REVISED -
	DRAWN - JJO	REVISED -
PLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -
PLOT DATE = #DATE#	DATE - 08/04/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=10'	
SHEET NO.	OF SHEETS
STA. 109+26.45 TO STA. 110+00.00	

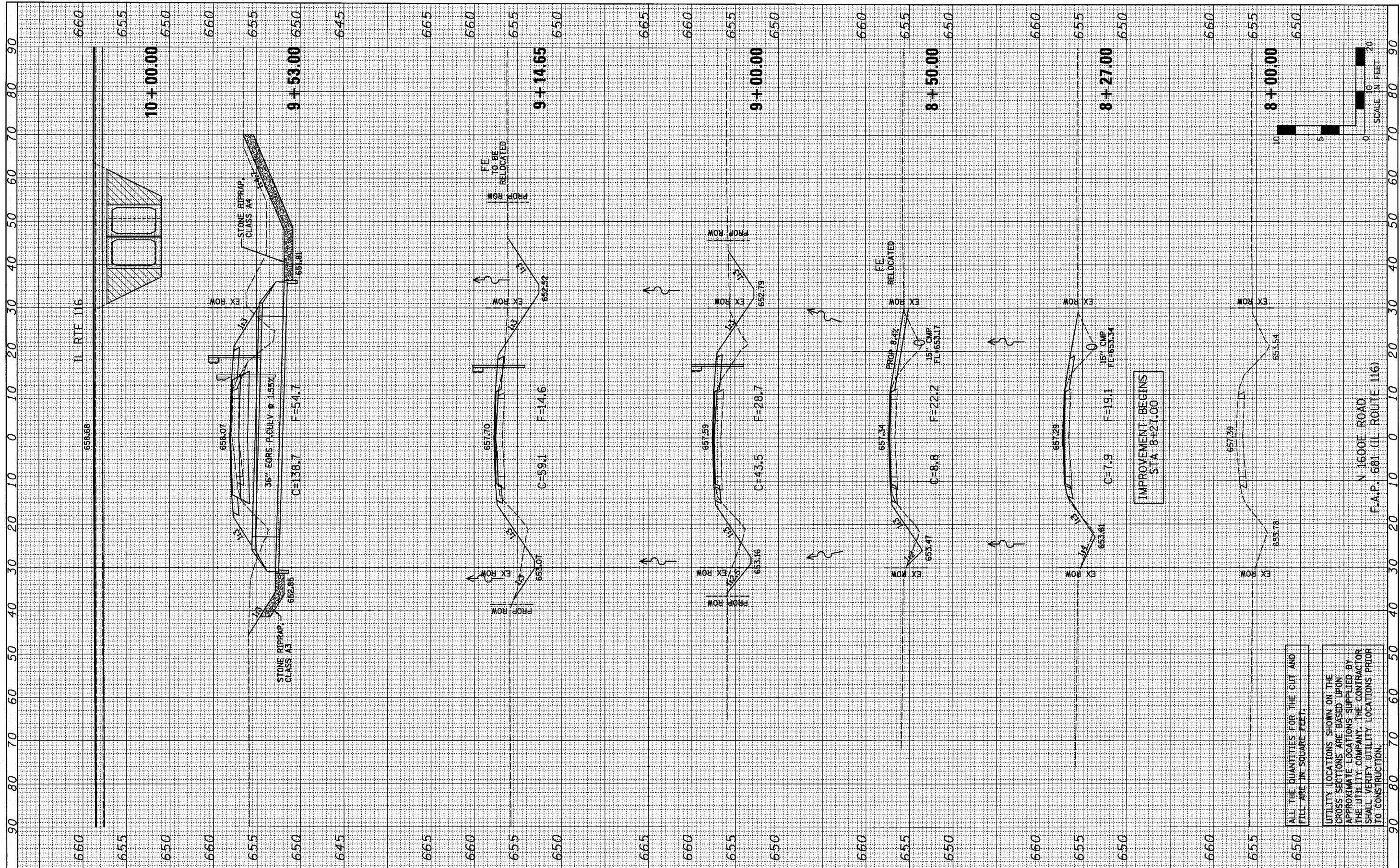
F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 129
S.N. 027-2553		CONTRACT NO. 66880		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

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

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



FILE NAME =  
#FILE#

USER NAME = #USER#	DESIGNED - JML	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JJO	REVISED -
PLOT DATE = #DATE#	CHECKED - MSW	REVISED -
	DATE - 08/04/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
SCALE: 1"=10'	SHEET NO. OF SHEETS	STA. 8+00.00 TO STA. 9+53.00	

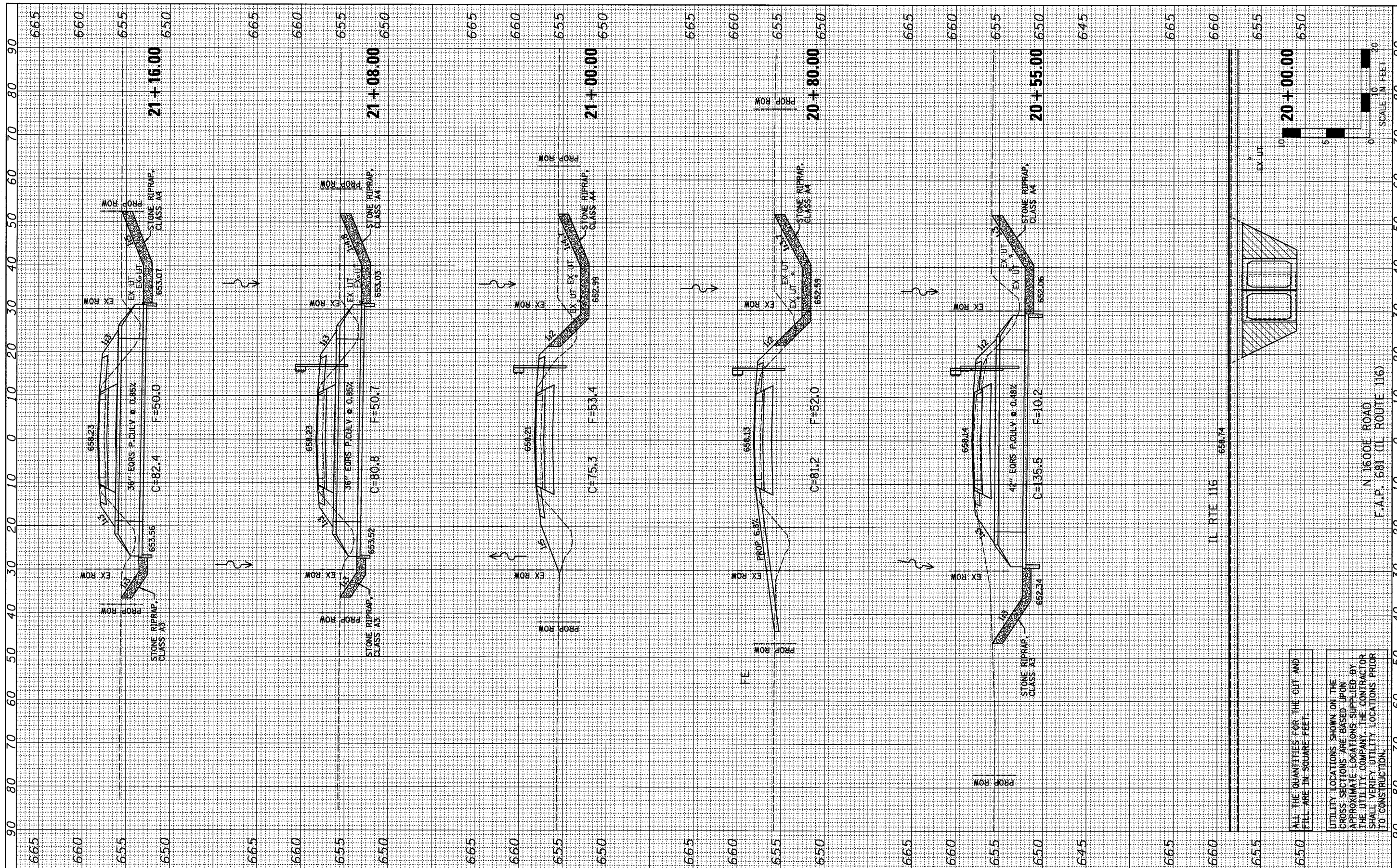
F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 130
	S.N. 027-2553	CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

FINISHED SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

FILE NAME = #FILEL#

USER NAME = #USER#

PLOT SCALE = #SCALE#

PLOT DATE = #DATE#

DESIGNED - JML	REVISED -
DRAWN - JJO	REVISED -
CHECKED - MSW	REVISED -
DATE - 08/04/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=10'

SHEET NO. OF SHEETS STA. 20+00.00 TO STA. 21+16.00

**CROSS SECTIONS**

F.A.P. RTE. 681	SECTION *	COUNTY FORD/TROQUOIS	TOTAL SHEETS 146	SHEET NO. 131
S.N. 027-2553		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FARNSWORTH GROUP, INC.

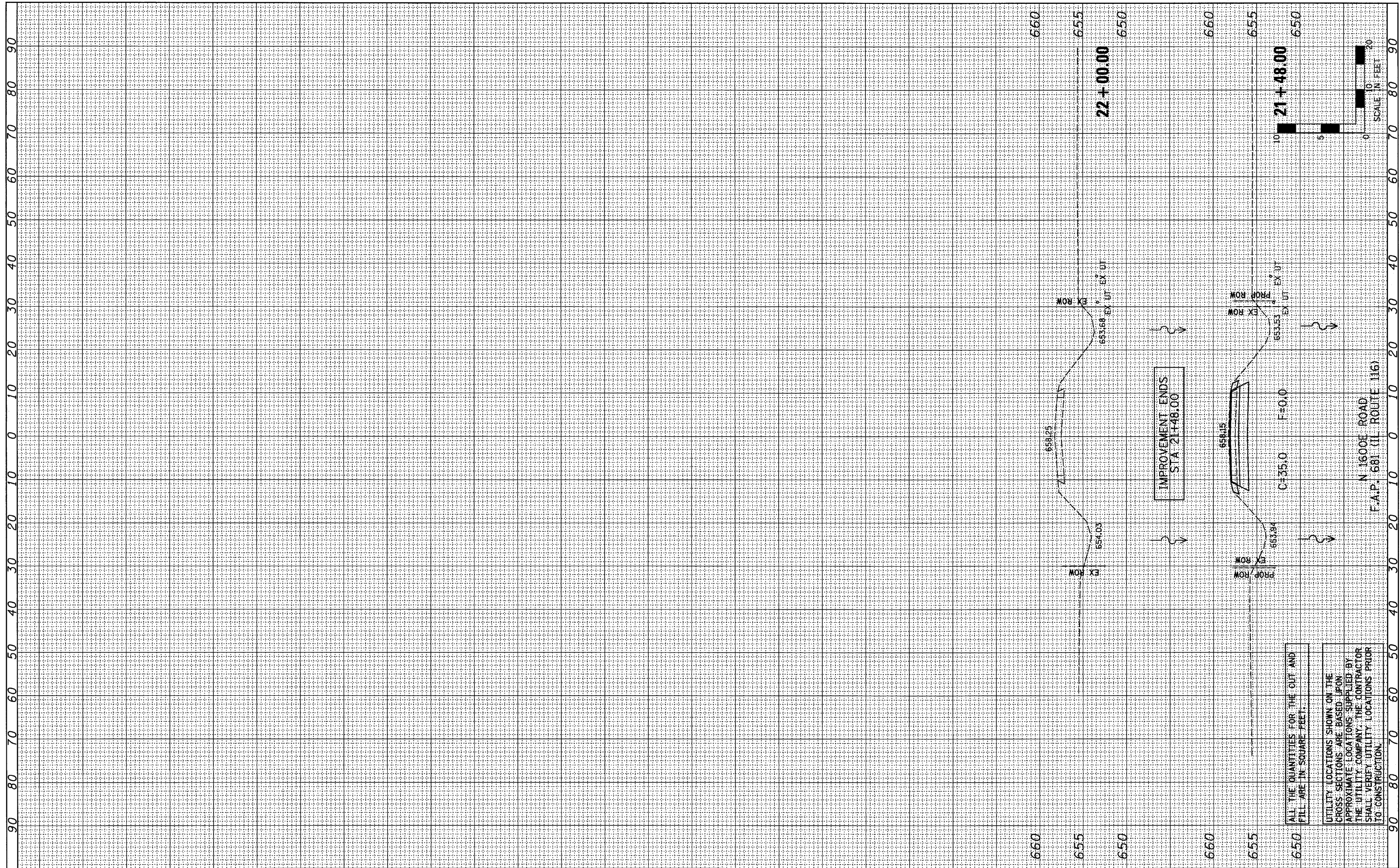
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

\* 116 BR/1116 BR, (BR-2)BR, I & BR-3J

24-8271

ORIGINAL SURVEY NO.	BY	DATE
CONVERTED SURVEY NO.	BY	DATE
PLOTTED TEMPLATE		
AREAS CHECKED		

FINAL SURVEY NO.	BY	DATE
CONVERTED SURVEY NO.	BY	DATE
PLOTTED TEMPLATE		
AREAS CHECKED		



FILE NAME =  
#FILEL#

USER NAME = #USER#  
DESIGNED - JML  
DRAWN - JJO  
CHECKED - MSW  
DATE - 08/04/10

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. OF SHEETS STA. 21+48.00 TO STA. 22+00.00

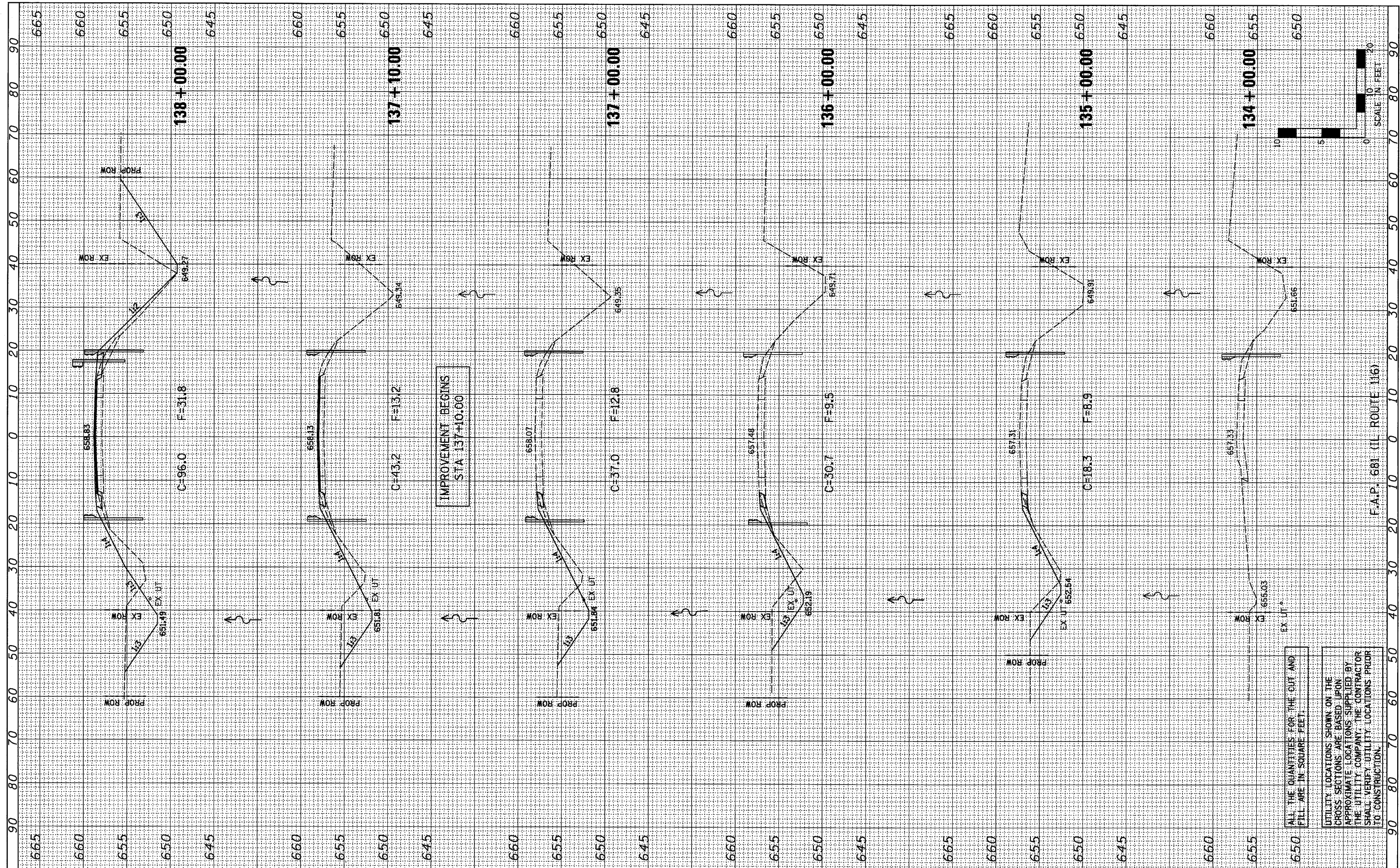
F.A.P. RTE. 681	SECTION *	COUNTY FORD/IROQUOIS	TOTAL SHEETS 146	SHEET NO. 132
S.N. 027-2553		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.  
UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.



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

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



F.A.P. 681 (IL ROUTE 116)

ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

FILE NAME =	USER NAME = #USER#
#FILE#	
PLOT SCALE = #SCALE#	CHECKED - MSW
PLOT DATE = #DATE#	DATE - 08/04/10

DESIGNED - JML	REVISED -
DRAWN - JJO	REVISED -
CHECKED - MSW	REVISED -
DATE - 08/04/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=10' SHEET NO. OF SHEETS STA. 134+00.00 TO STA. 138+00.00

F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 133
S.N. 027-0100		CONTRACT NO. 66880		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FARNSWORTH GROUP, INC.

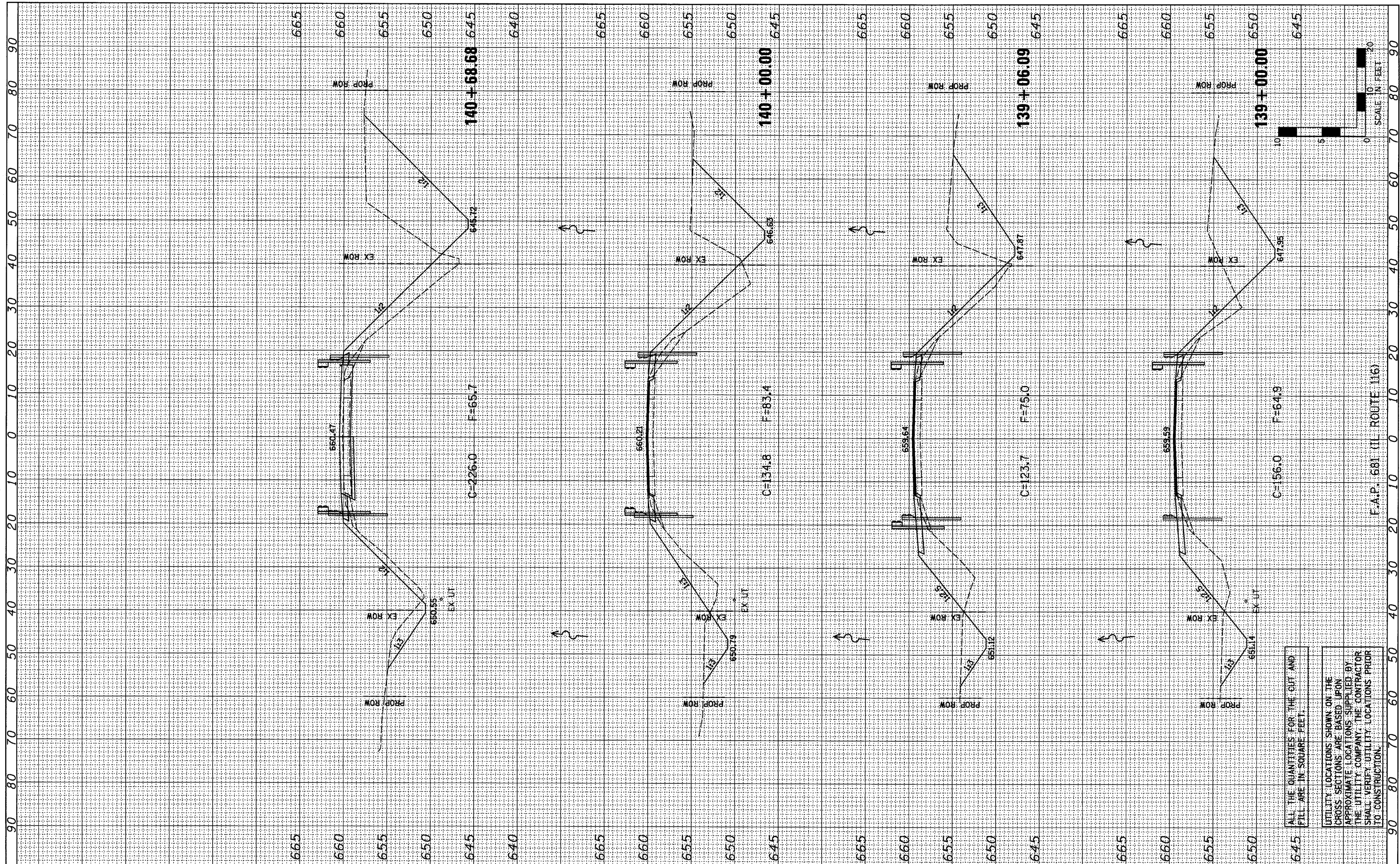
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

\* 116 BR/116 BR, (BR-2)BR, I & BR-3

24-8271

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

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



FILE NAME = #FILE#  
 USER NAME = #USER#  
 PLOT SCALE = #SCALE#  
 PLOT DATE = #DATE#

DESIGNED - JML  
 DRAWN - JJO  
 CHECKED - MSW  
 DATE - 08/04/10

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

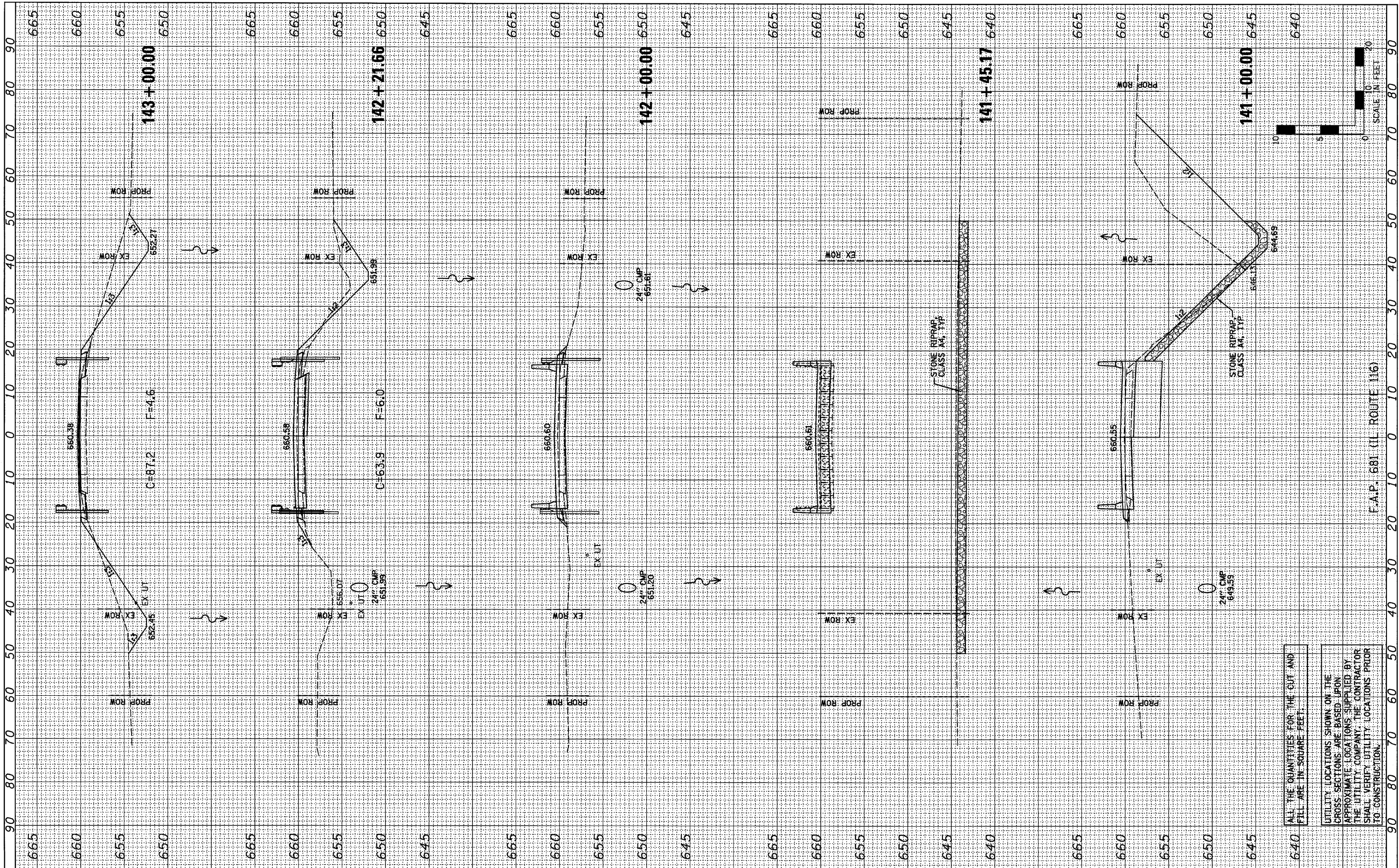
SCALE: 1"=10'  
 SHEET NO. OF SHEETS STA. 139+00.00 TO STA. 140+68.68

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/ROQUOIS	146	134
S.N. 027-0100		CONTRACT NO. 66880		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.  
 UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

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

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



FILE NAME =  
#FILE#

USER NAME = #USER#	DESIGNED - JML	REVISED -
	DRAWN - JUO	REVISED -
PLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -
PLOT DATE = #DATE#	DATE - 08/04/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10'  
SHEET NO. OF SHEETS STA. 141+00.00 TO STA. 143+00.00

F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 135
S.N. 027-0100		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

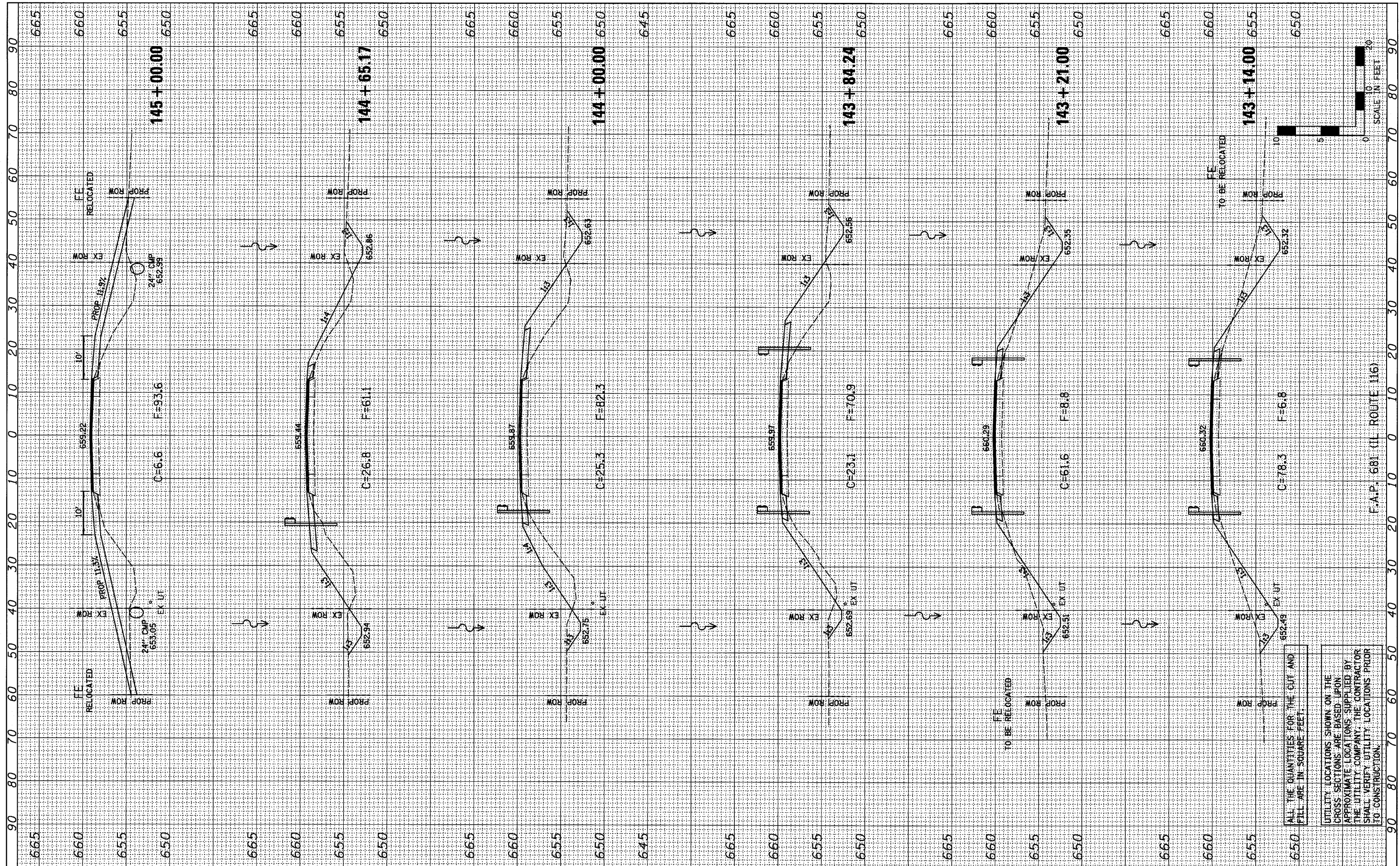
ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

F.A.P. 681 (IL ROUTE 116)

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

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



UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

FILE NAME = #FILEL\*  
 USER NAME = #USER\*  
 DESIGNED - JML  
 DRAWN - JJO  
 CHECKED - MSW  
 DATE - 08/04/10

DESIGNED - JML	REVISED -
DRAWN - JJO	REVISED -
CHECKED - MSW	REVISED -
DATE - 08/04/10	REVISED -

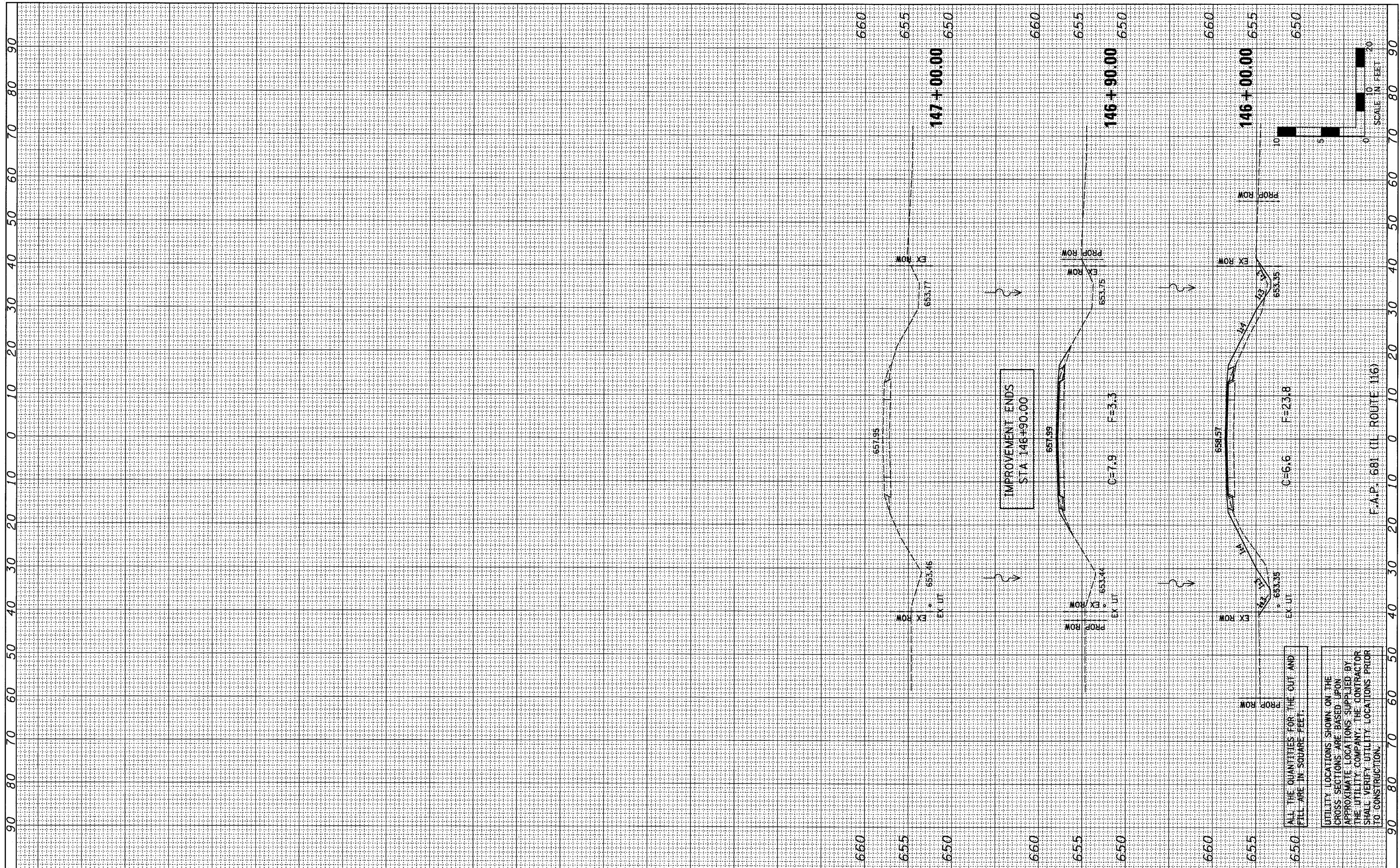
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS  
 SCALE: 1"=10'  
 SHEET NO. OF SHEETS STA. 143+14.00 TO STA. 145+00.00

F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 136
S.N. 027-0100		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = #FILEL#

USER NAME = #USER#

PLOT SCALE = #SCALE#

PLOT DATE = #DATE#

DESIGNED - JML

DRAWN - JJO

CHECKED - MSW

DATE - 08/04/10

REVISED -

REVISED -

REVISED -

REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

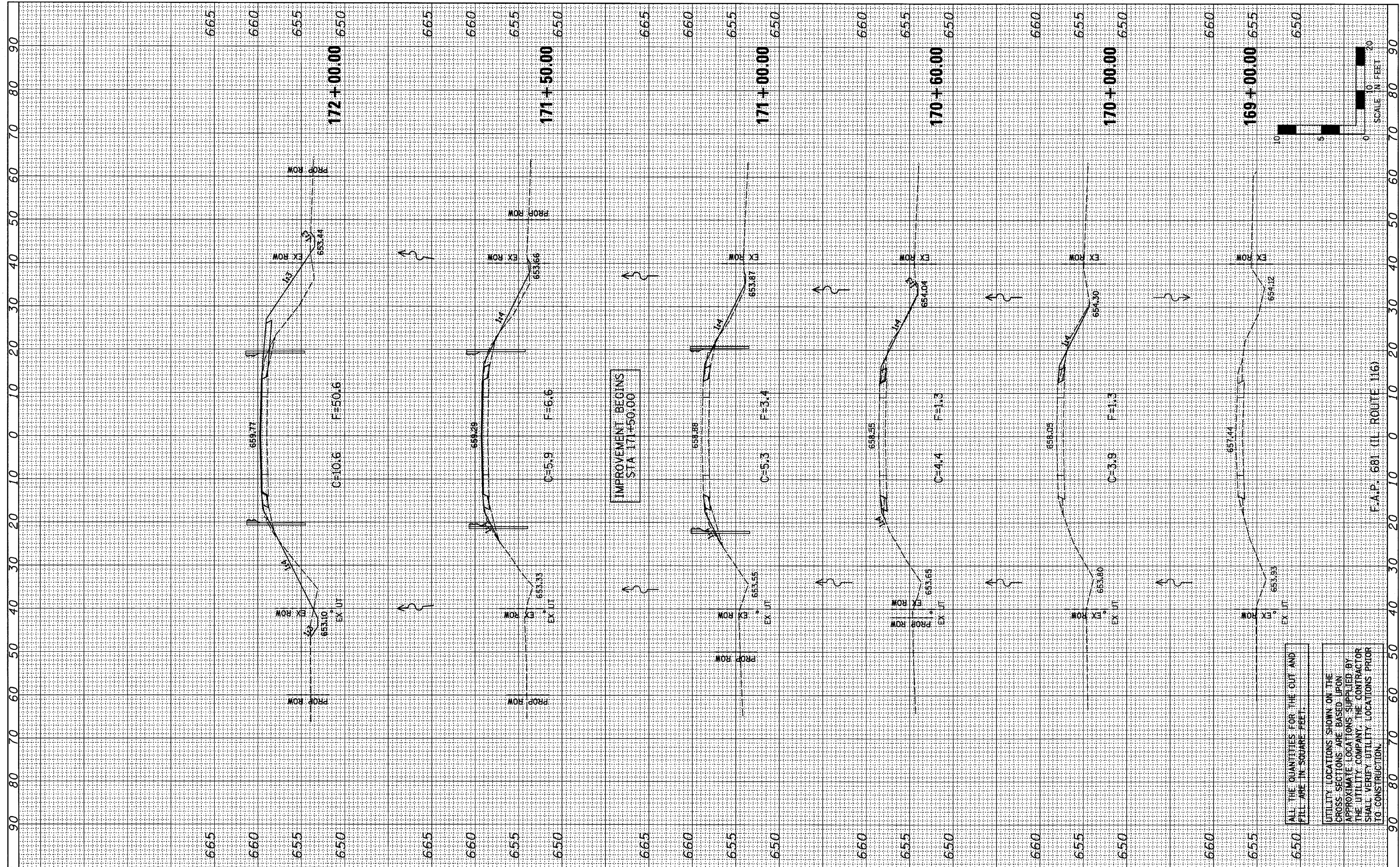
SCALE: 1"=10'

SHEET NO. OF SHEETS STA. 146+00.00 TO STA. 147+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/IRROQUOIS	146	137
S.N. 027-0100		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SUBMITTED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		



FILE NAME =  
#FILE#

USER NAME = #USER#  
DESIGNED - JML  
DRAWN - JJO  
CHECKED - MSW  
DATE - 08/04/10

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10'  
SHEET NO. OF SHEETS STA. 169+00.00 TO STA. 172+00.00

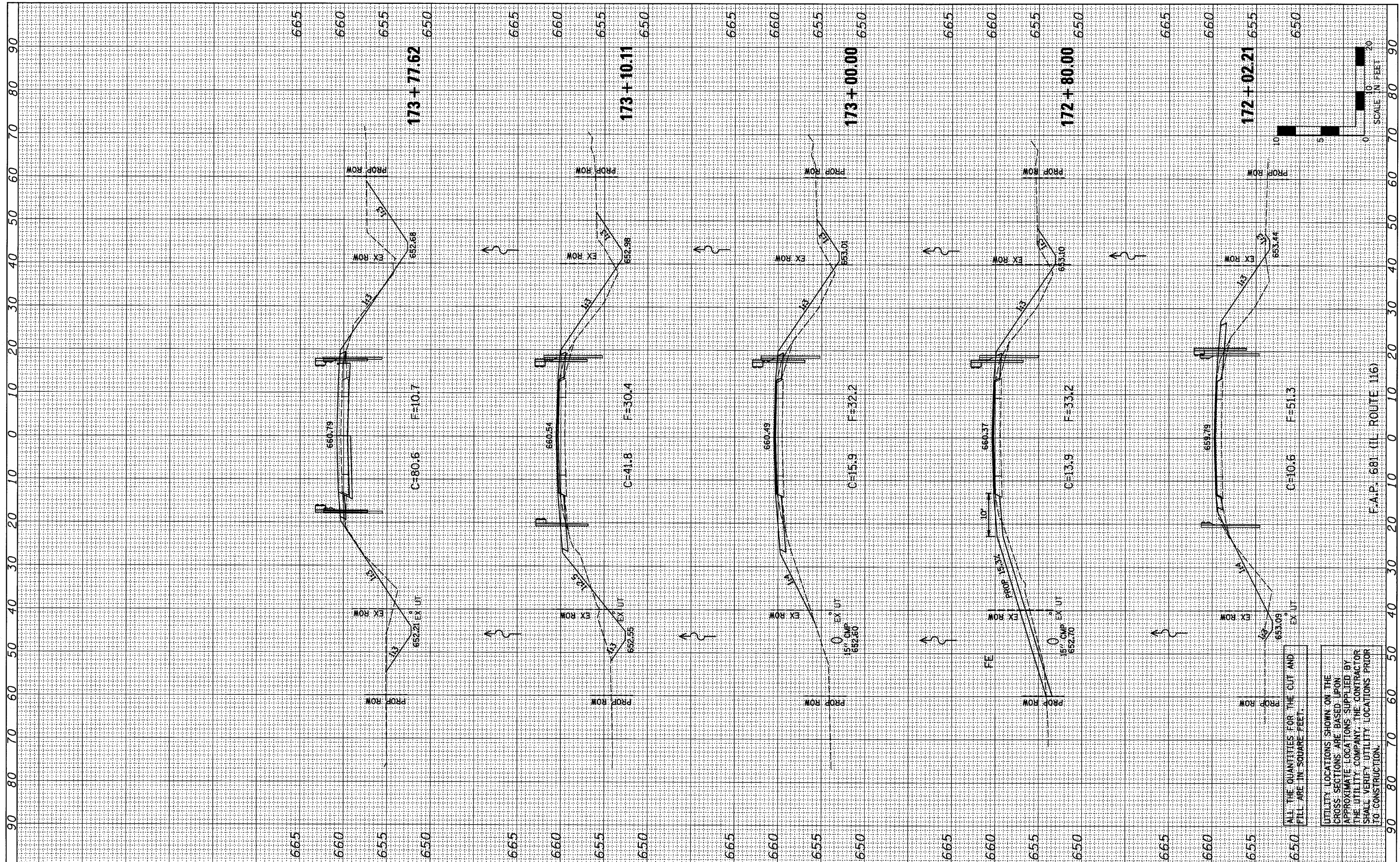
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/IRROQUOIS	146	138
S.N. 027-0098		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

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

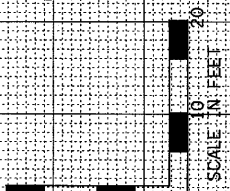
ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

F.A.P. - 681 (IL ROUTE 116)



FILE NAME -	USER NAME - #USER*	DESIGNED - JML	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b>			F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 139
#FILEL#	PLOT SCALE = #SCALE*	DRAWN - JJO	REVISED -		SCALE: 1"=10'	SHEET NO. OF SHEETS	STA. 172+02.21 TO STA. 173+77.62	S.N. 027-0098		CONTRACT NO. 66880		
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		DATE - 08/04/10	REVISED -									

FARNSWORTH GROUP, INC.

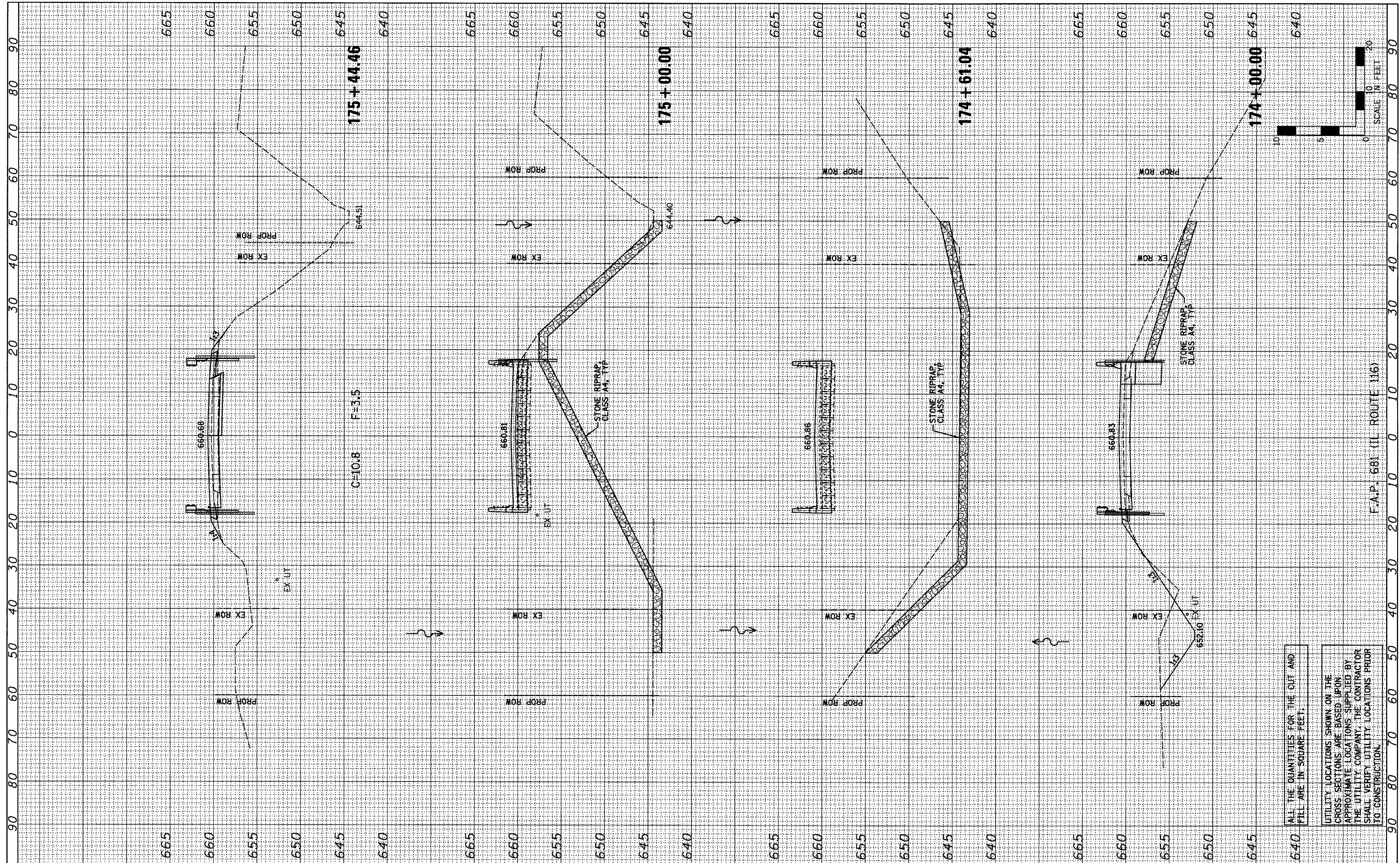
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

\* 116 BR/116 BR, (BR-2)BR, I & BR-3J

24-8271

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

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



FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b>	F.A.P. RTE. 681	SECTION *	COUNTY FORD/IROQUOIS	TOTAL SHEETS 146	SHEET NO. 140		
#FILE#	PLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -			SCALE: 1"=10'	SHEET NO. OF SHEETS	STA. 174+00.00 TO STA. 175+44.46	S.N. 027-0098	CONTRACT NO. 66880		
	PLOT DATE = #DATE#	DATE - 08/04/10	REVISED -									
FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX												

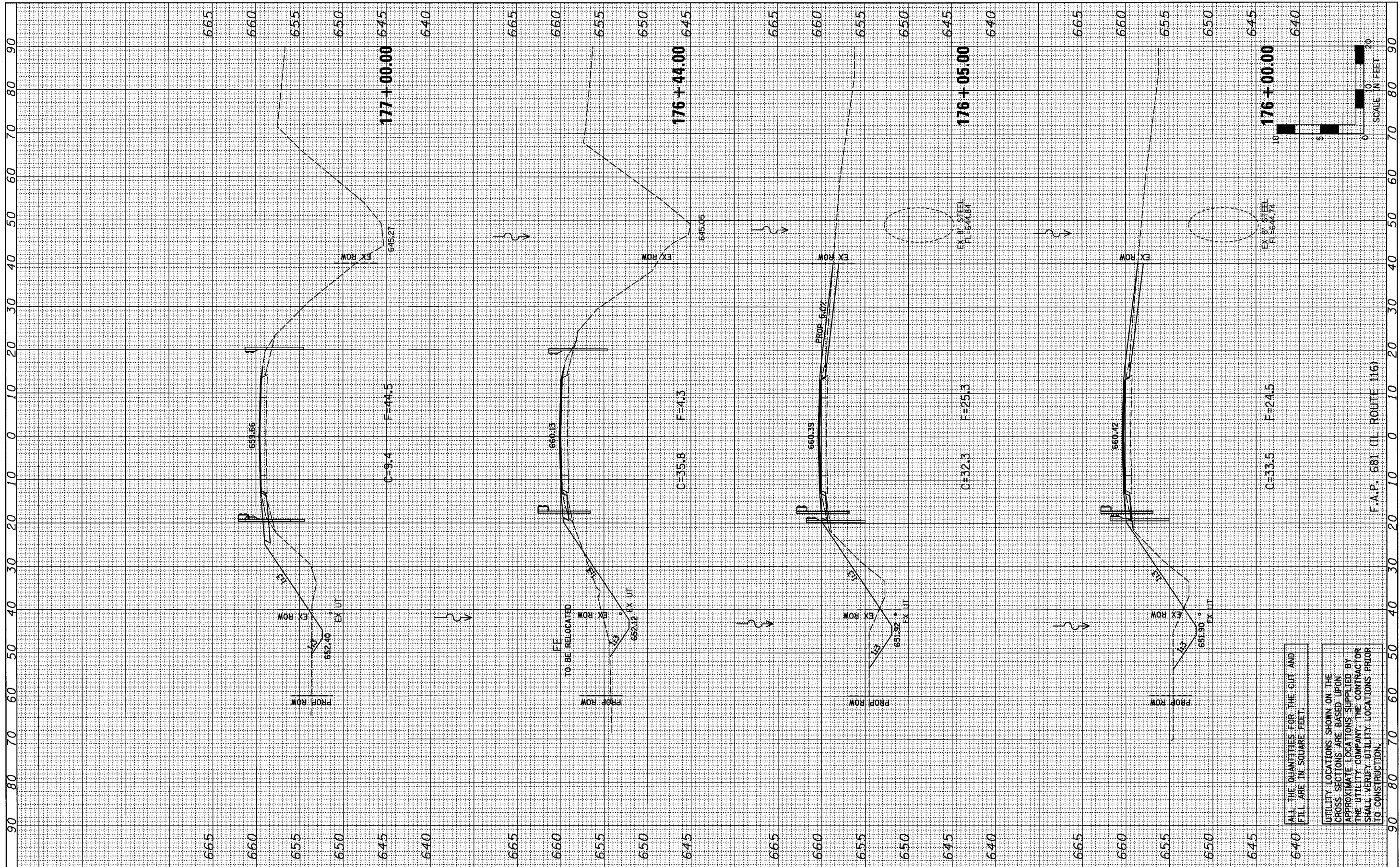
ALL THE QUANTITIES FOR THE CLIFF AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.



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

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



FILE NAME =  
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USER NAME = #USER#	DESIGNED - JML	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JUO	REVISED -
PLOT DATE = #DATE#	CHECKED - MSW	REVISED -
	DATE - 08/04/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. OF SHEETS STA. 176+00.00 TO STA. 177+00.00

F.A.P. RTE. 681	SECTION * S.N. 027-0098	COUNTY FORD/TROOUDIS	TOTAL SHEETS 146	SHEET NO. 141
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 66880		

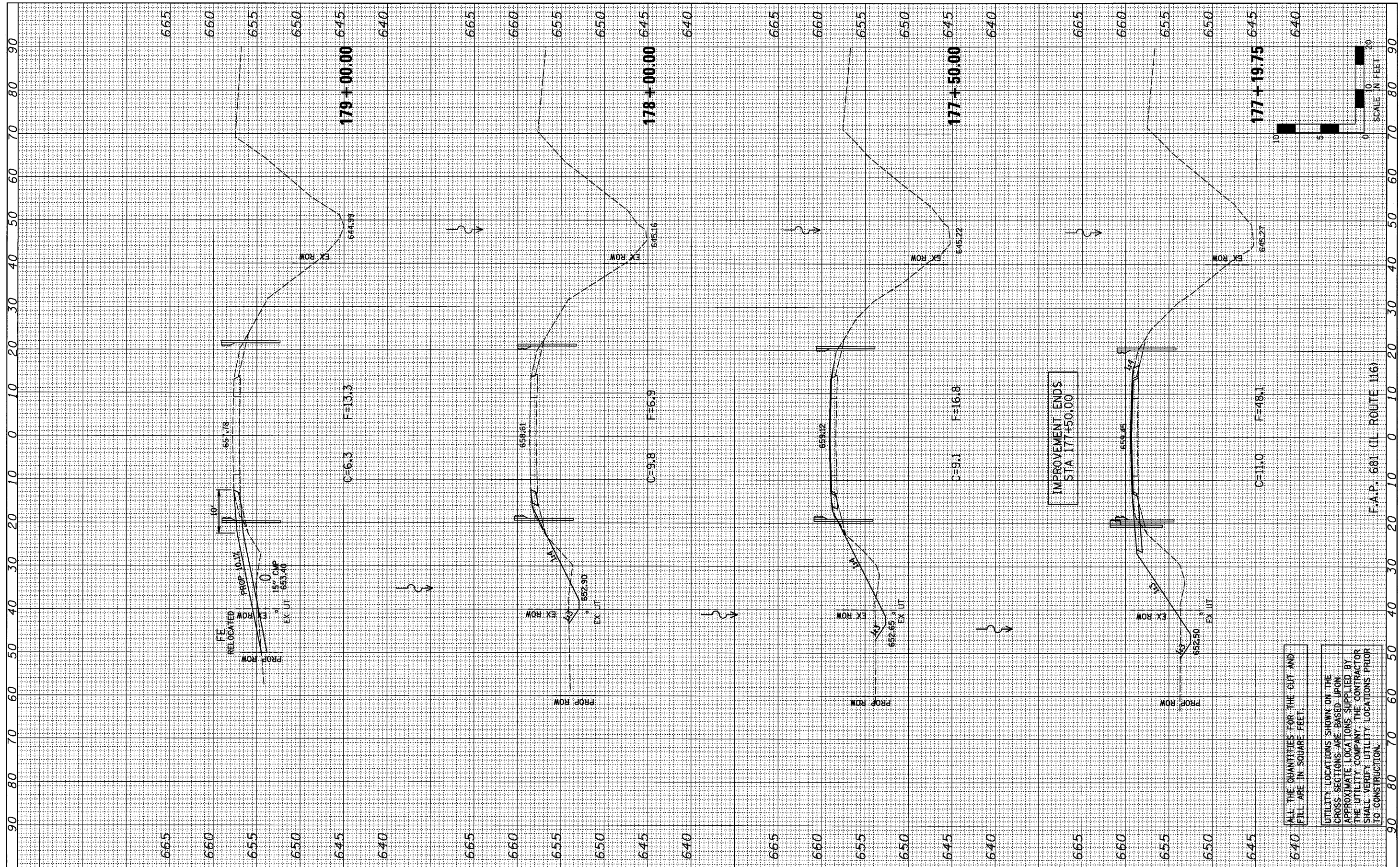
ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

F.A.P. 681 (IL ROUTE 116)

FINIAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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



FILE NAME =  
#FILE#

USER NAME = #USER#  
DESIGNED - JML  
DRAWN - JJO  
CHECKED - MSW  
DATE - 08/04/10

REVISED -  
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

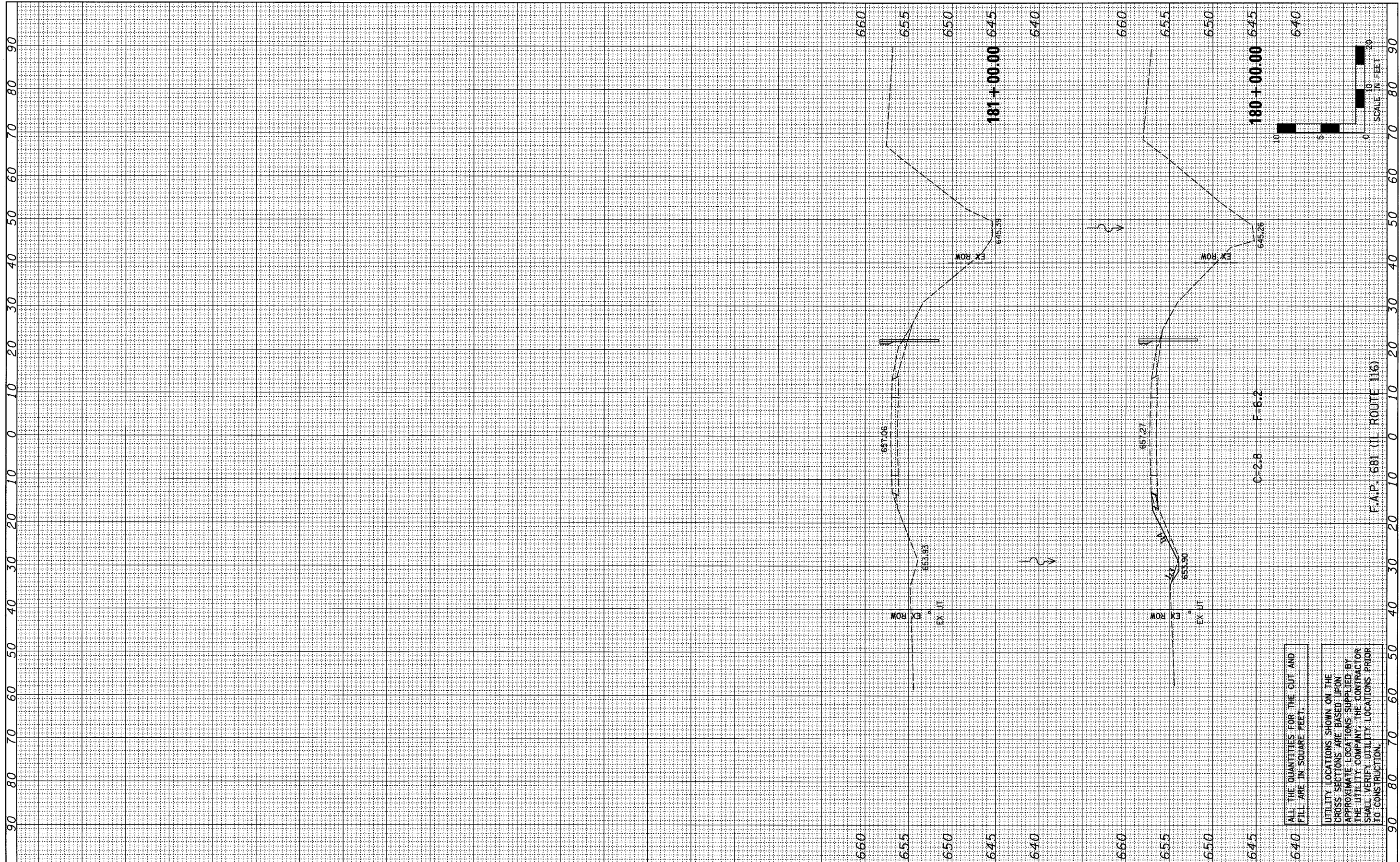
SCALE: 1"=10'  
SHEET NO. OF SHEETS  
STA. 177+19.75 TO STA. 179+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/TROQUOIS	146	142
S.N. 027-0098		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

F.A.P. 681 (IL ROUTE 116)  
ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.  
UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

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

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



FILE NAME = #FILE#  
 USER NAME = #USER#  
 PLOT SCALE = #SCALE#  
 PLOT DATE = #DATE#

DESIGNED - JML	REVISED -
DRAWN - JJO	REVISED -
CHECKED - MSW	REVISED -
DATE - 08/04/10	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. OF SHEETS STA. 180+00.00 TO STA. 181+00.00

F.A.P. RTE. 681	SECTION *	COUNTY FORD/TROQUOIS	TOTAL SHEETS 146	SHEET NO. 143
S.N. 027-0098		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

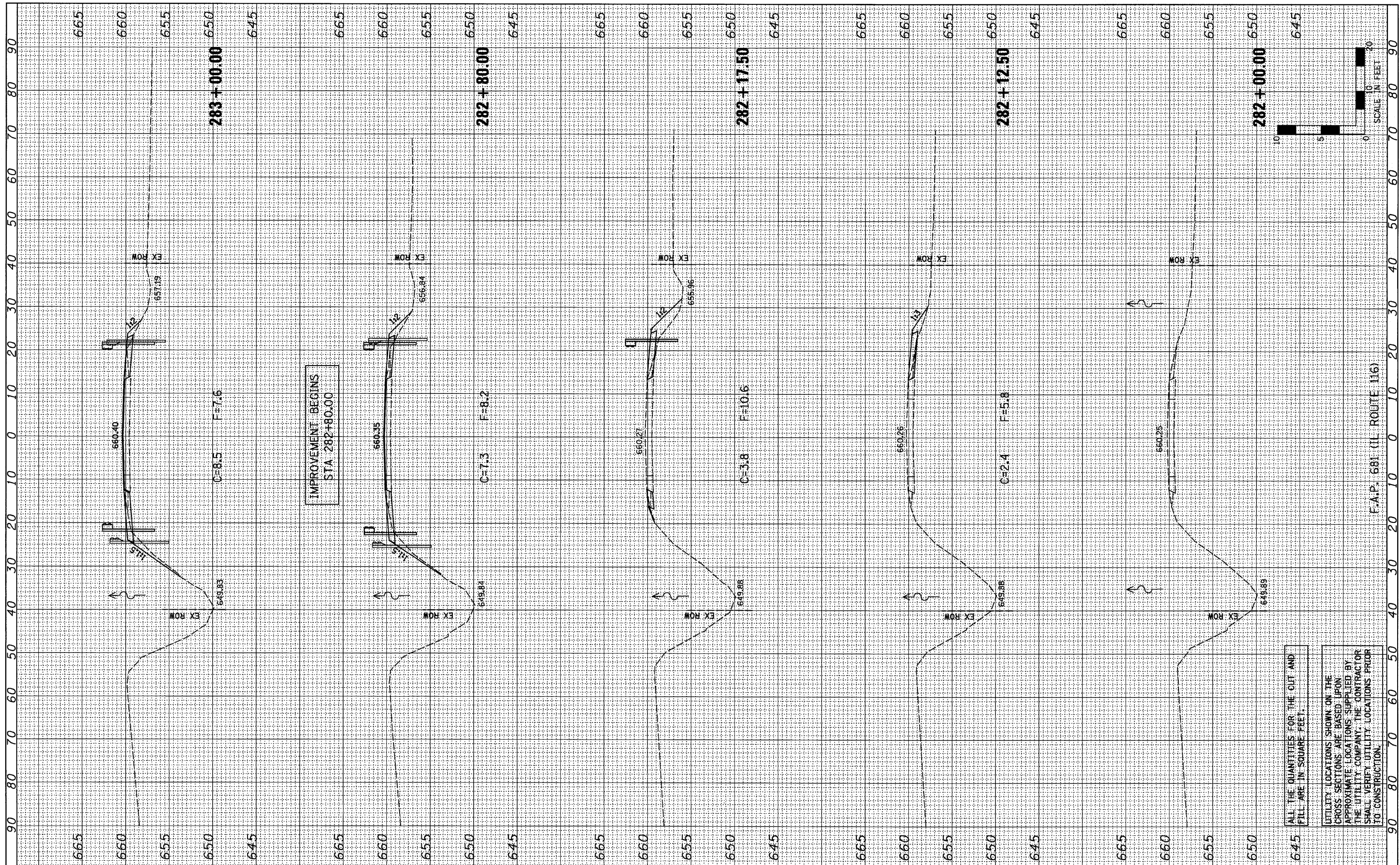
ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

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F.A.P. 681 (IL ROUTE 116)

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

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



FILE NAME = #FILE#  
 USER NAME = #USER#  
 PLOT SCALE = #SCALE#  
 PLOT DATE = #DATE#

DESIGNED - JML	REVISED -
DRAWN - JJO	REVISED -
CHECKED - MSW	REVISED -
DATE - 08/04/10	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS  
 SCALE: 1"=10'  
 SHEET NO. OF SHEETS STA. 282+00.00 TO STA. 283+00.00

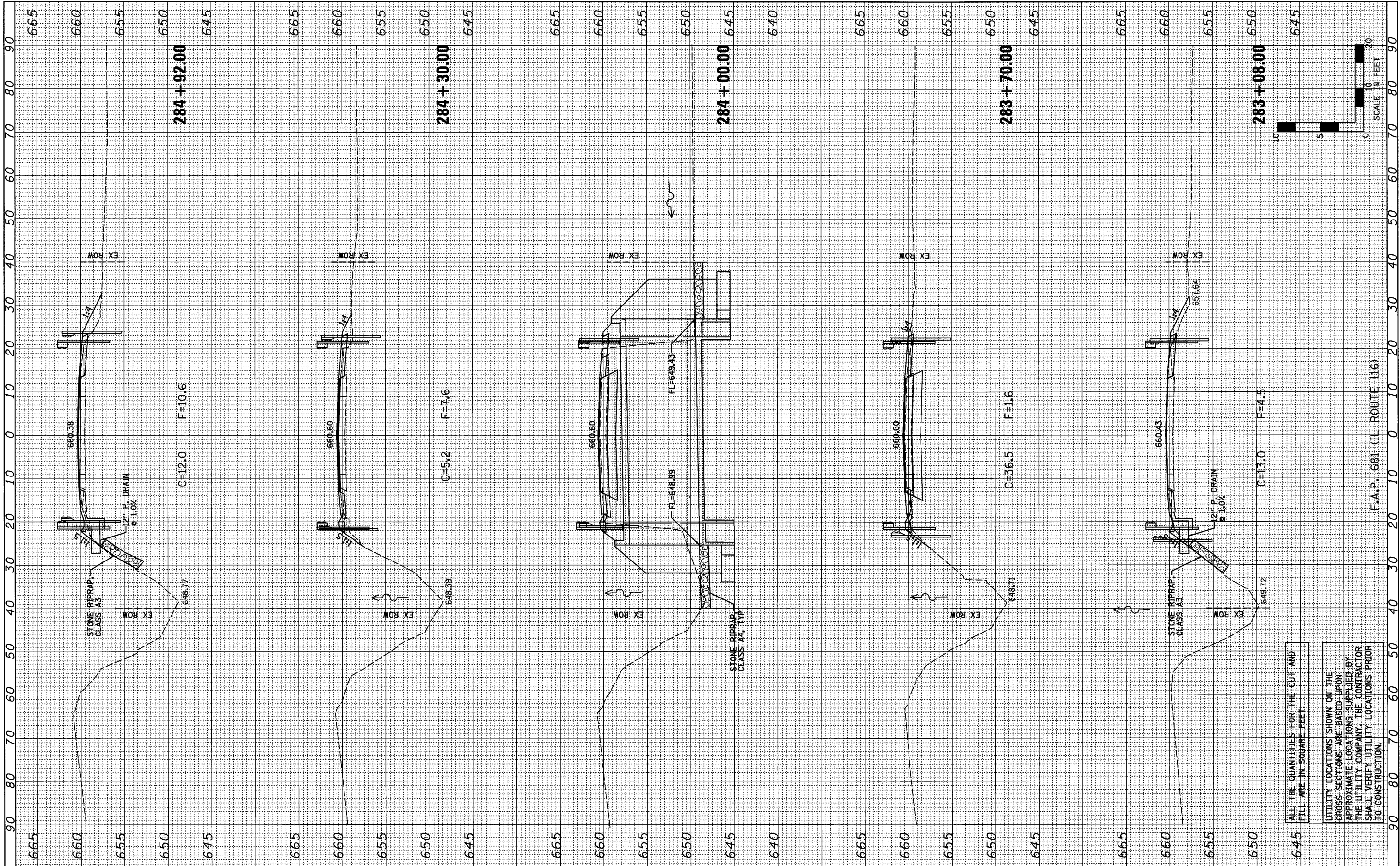
F.A.P. RTE. 681	SECTION *	COUNTY FORD/IRROQUOIS	TOTAL SHEETS 146	SHEET NO. 144
S.N. 038-2549		CONTRACT NO. 66880		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ALL THE QUANTITIES FOR THE CLIT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

FINISH SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	DESIGNED	BY	DATE
NOTE BOOK	DRAWN		
AREAS CHECKED	CHECKED		
	DATE		



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

F.A.P. 681 (IL ROUTE 116)

FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -
#FILE#		DRAWN - JJO	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -
	PLOT DATE = #DATE#	DATE - 08/04/10	REVISED -

STATE OF ILLINOIS	DESIGNED - JML	REVISED -
DEPARTMENT OF TRANSPORTATION	DRAWN - JJO	REVISED -
	CHECKED - MSW	REVISED -
	DATE - 08/04/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

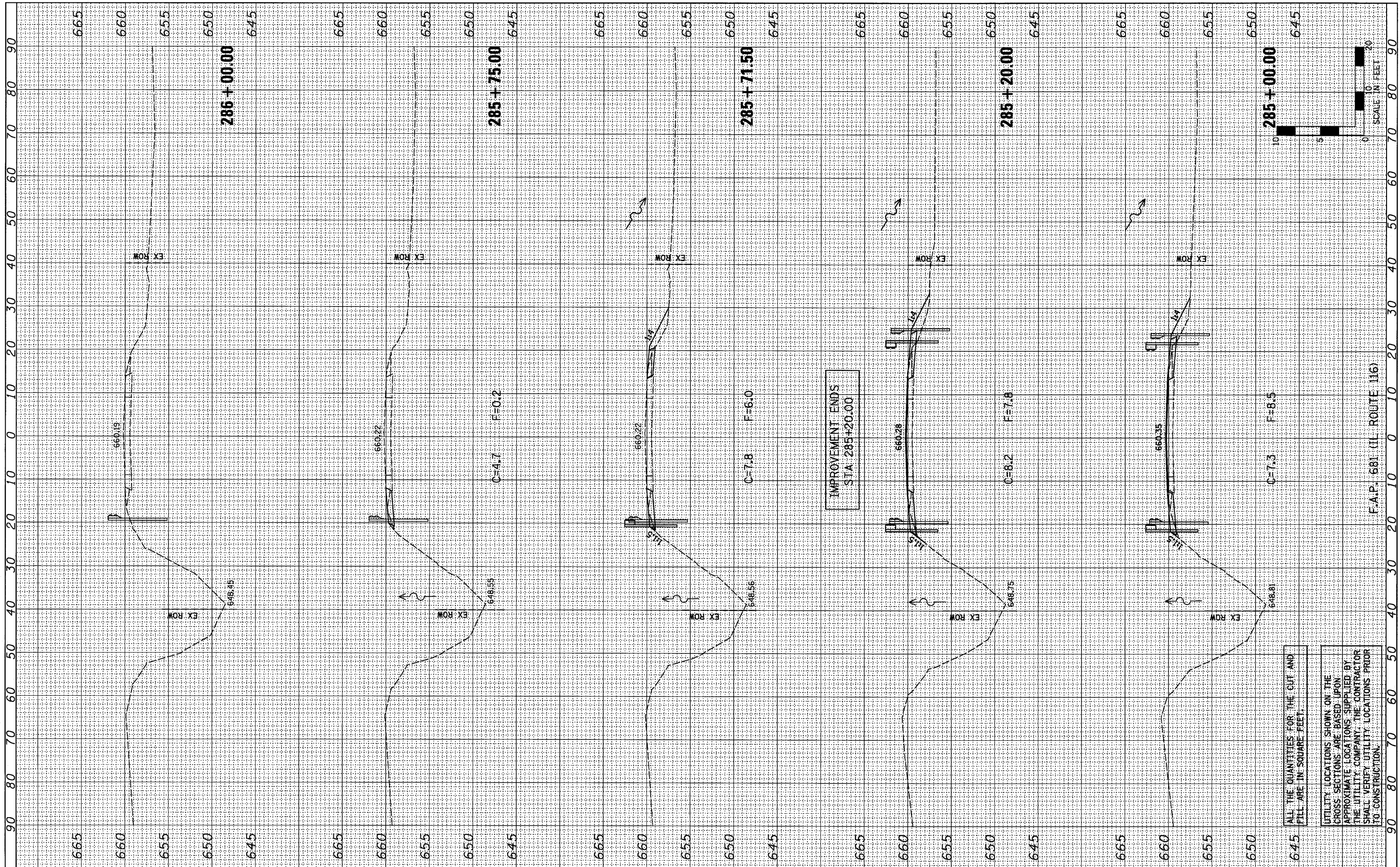
**CROSS SECTIONS**

SCALE: 1"=10' SHEET NO. OF SHEETS STA. 283+08.00 TO STA. 284+92.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/IROQUOIS	146	145
	S.N. 038-2549		CONTRACT NO. 66880	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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

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



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

FILE NAME =  
#FILEL\*

USER NAME = #USER\*  
PLOT SCALE = #SCALE\*  
PLOT DATE = #DATE\*

DESIGNED - JML  
DRAWN - JJO  
CHECKED - MSW  
DATE - 08/04/10

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=10'  
SHEET NO. OF SHEETS STA. 285+00.00 TO STA. 286+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	*	FORD/IRROQUOIS	146	146
S.N. 038-2549		CONTRACT NO. 66880		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		