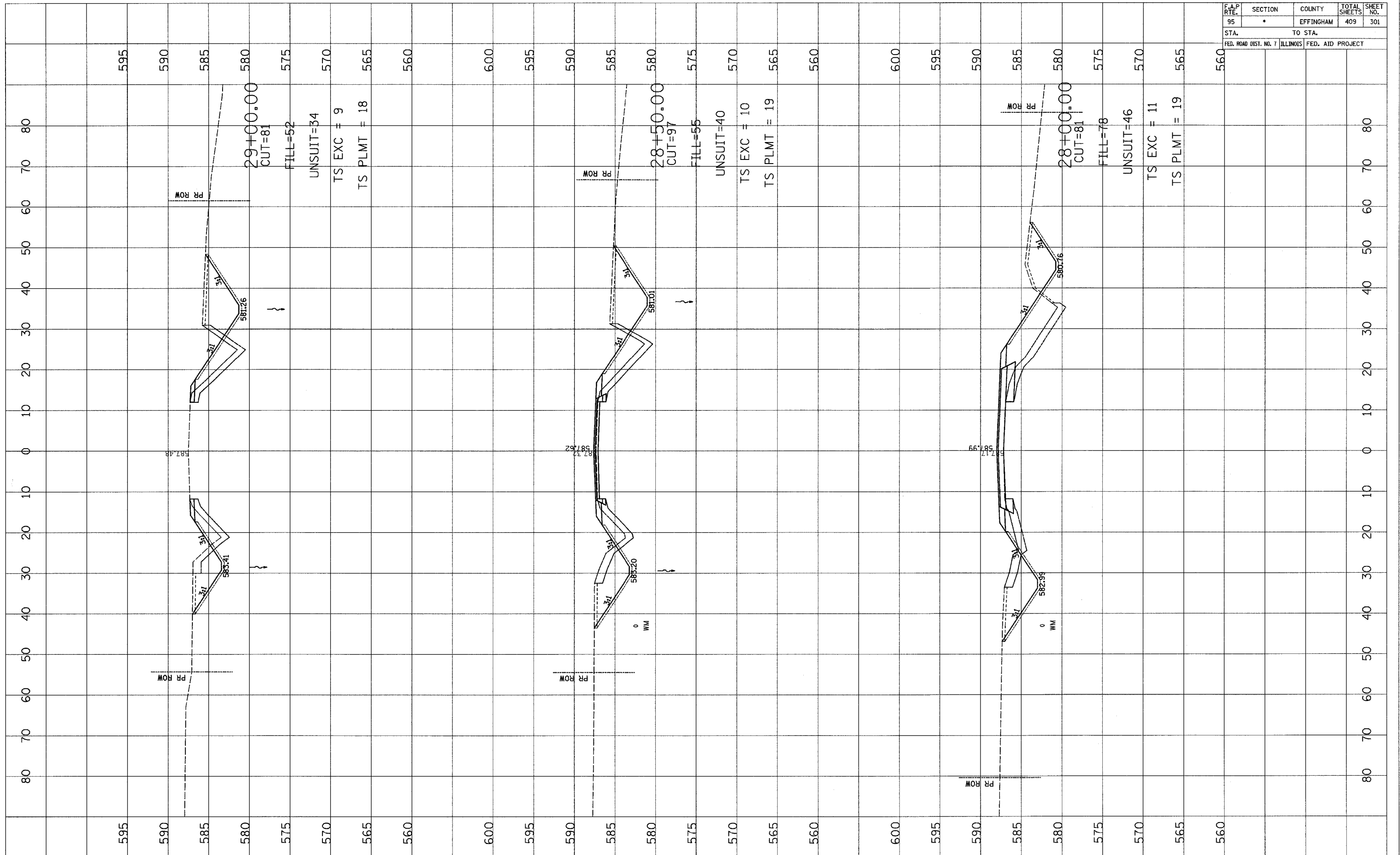


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	301
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

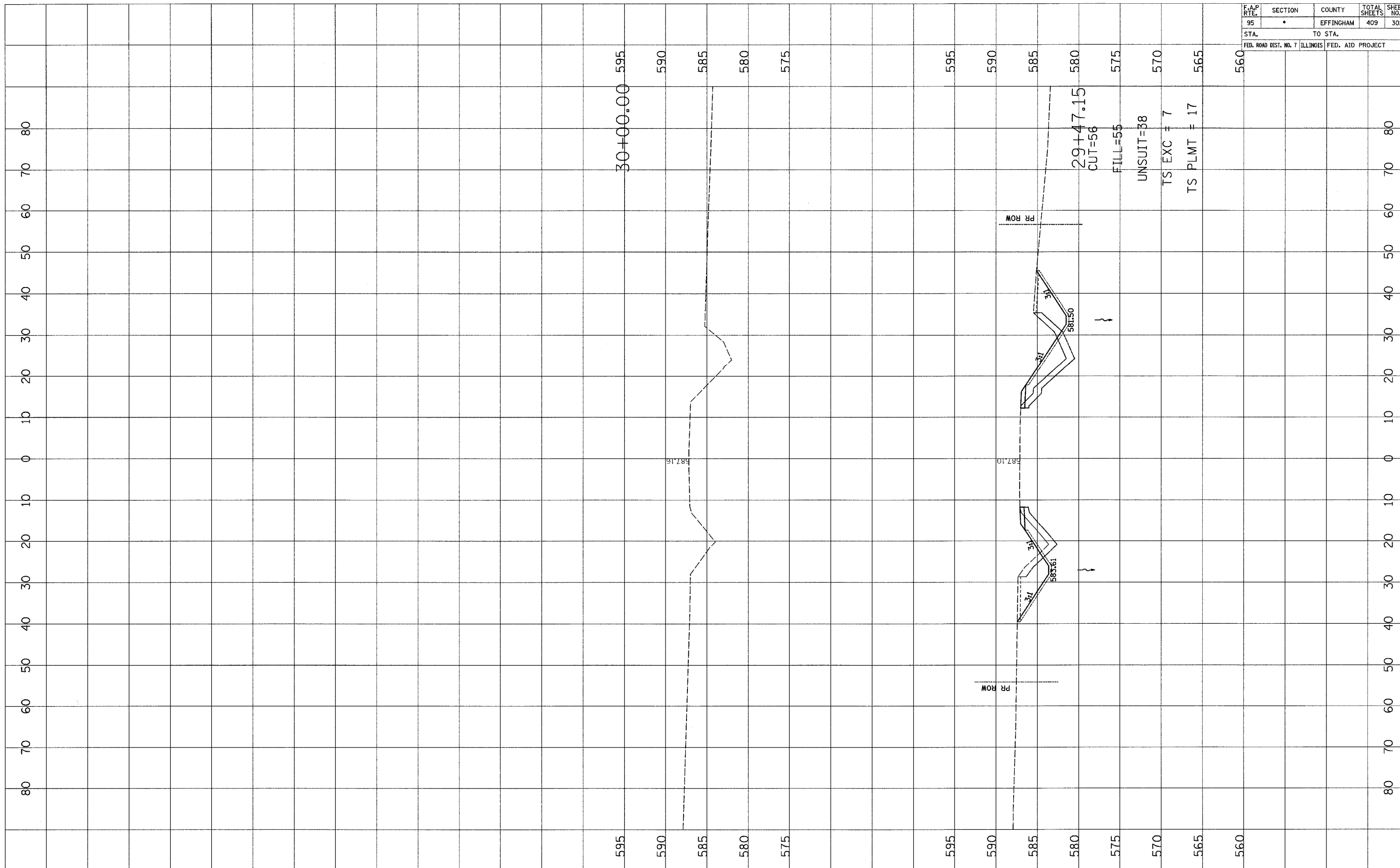
ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



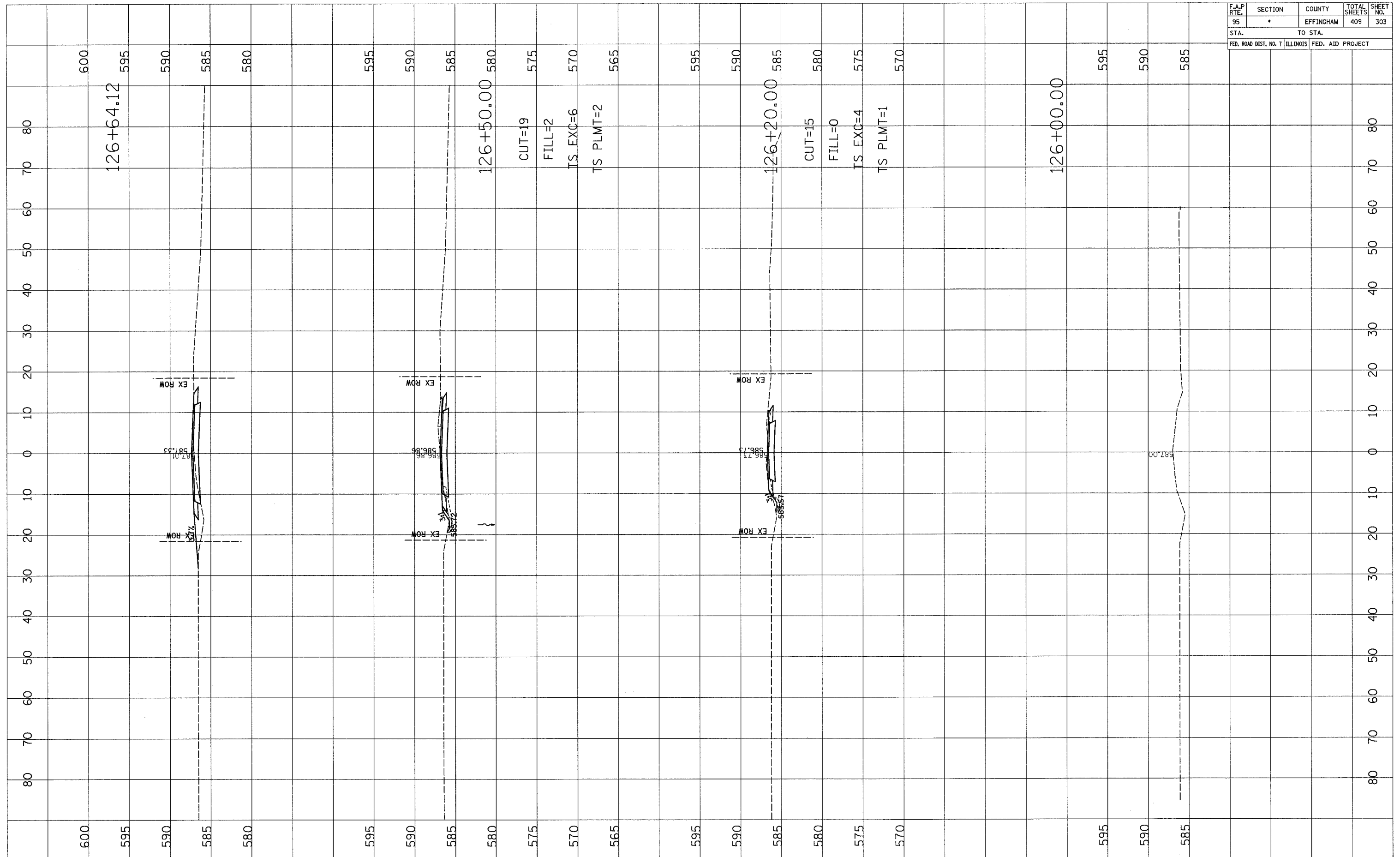
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	302
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	303
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		



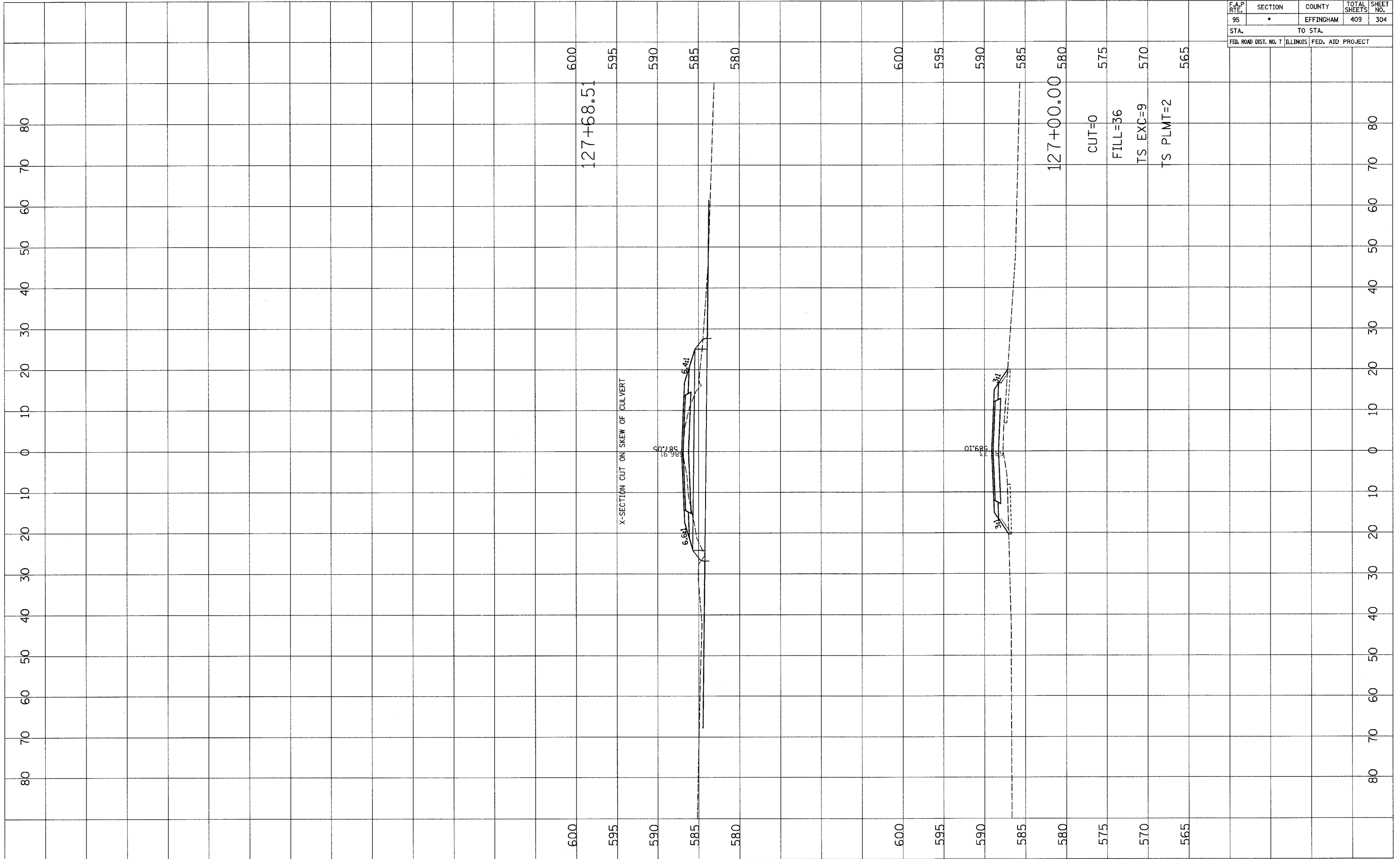
FINAL SURVEY	DATE
SURVEYED	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	
NOTE BOOK	
AREAS CHECKED	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	304
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

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

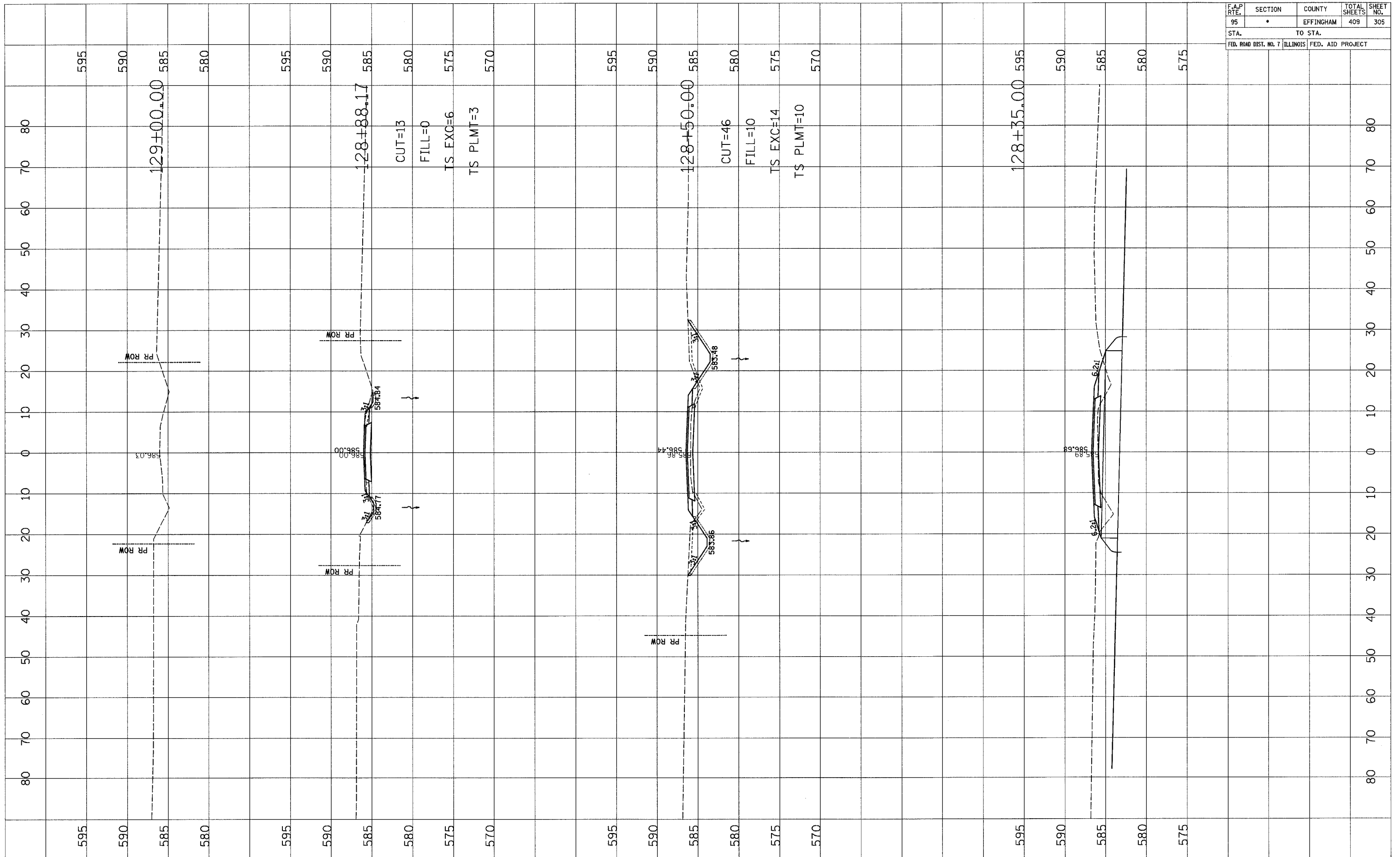
ORIGINAL SURVEY NOTE BOOK NO.	SURVEY PLOTTED AREAS CHECKED	BY	DATE



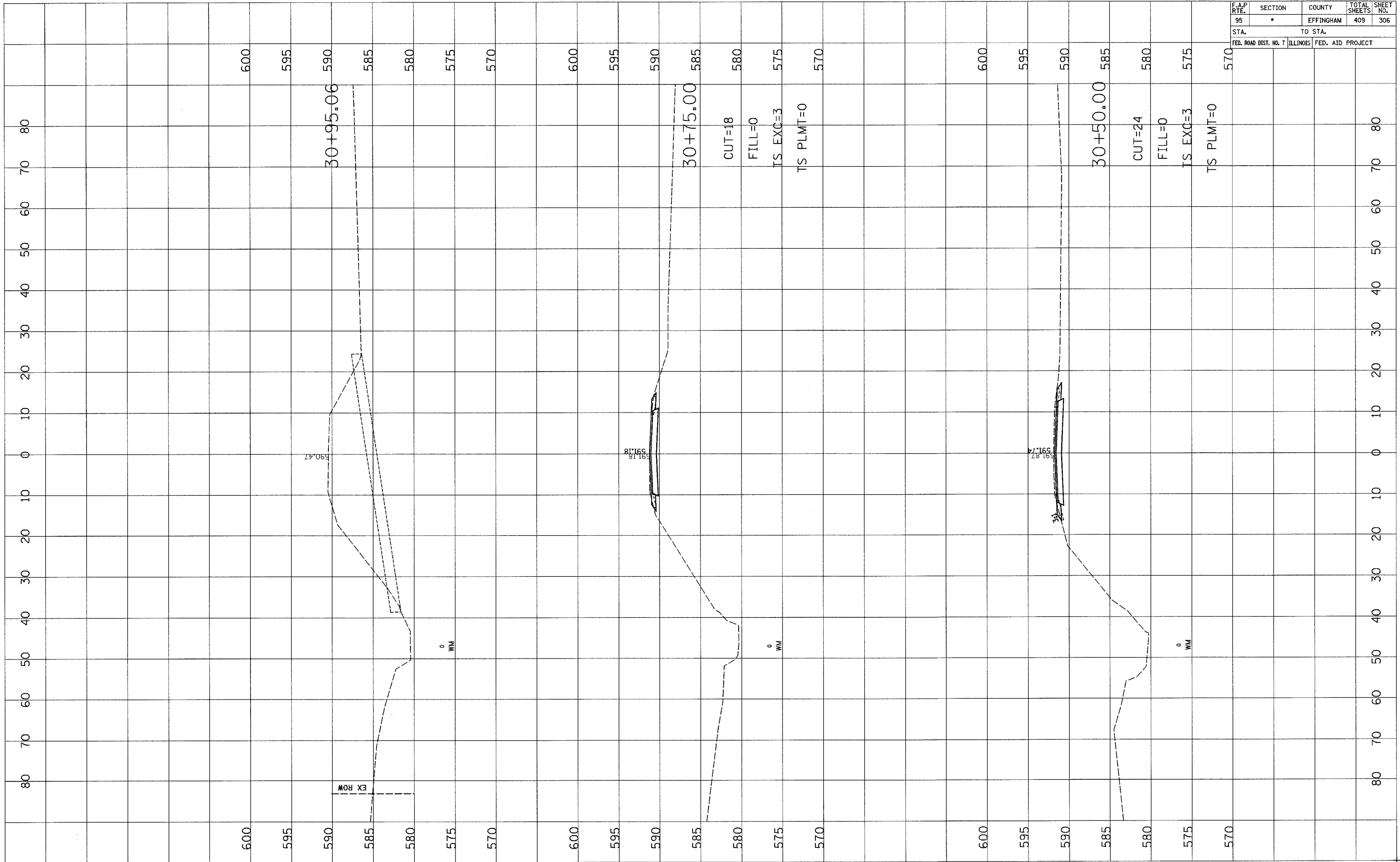
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	305
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO.	DATE
BY	
REVISIONS	
NO.	

ORIGINAL SURVEY NOTE BOOK NO.	DATE
BY	
REVISIONS	
NO.	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	306
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		

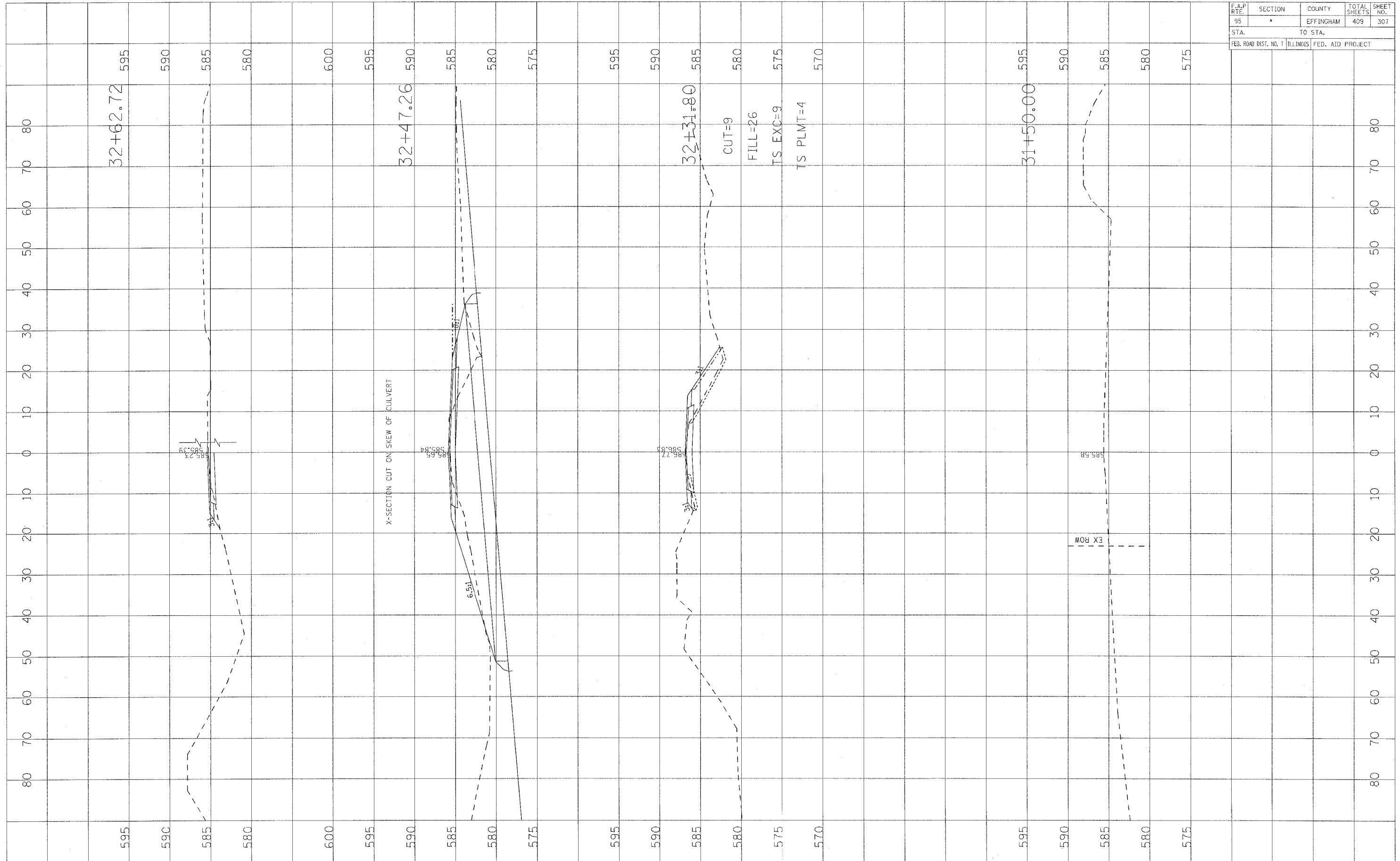


DATE	BY

DATE	BY

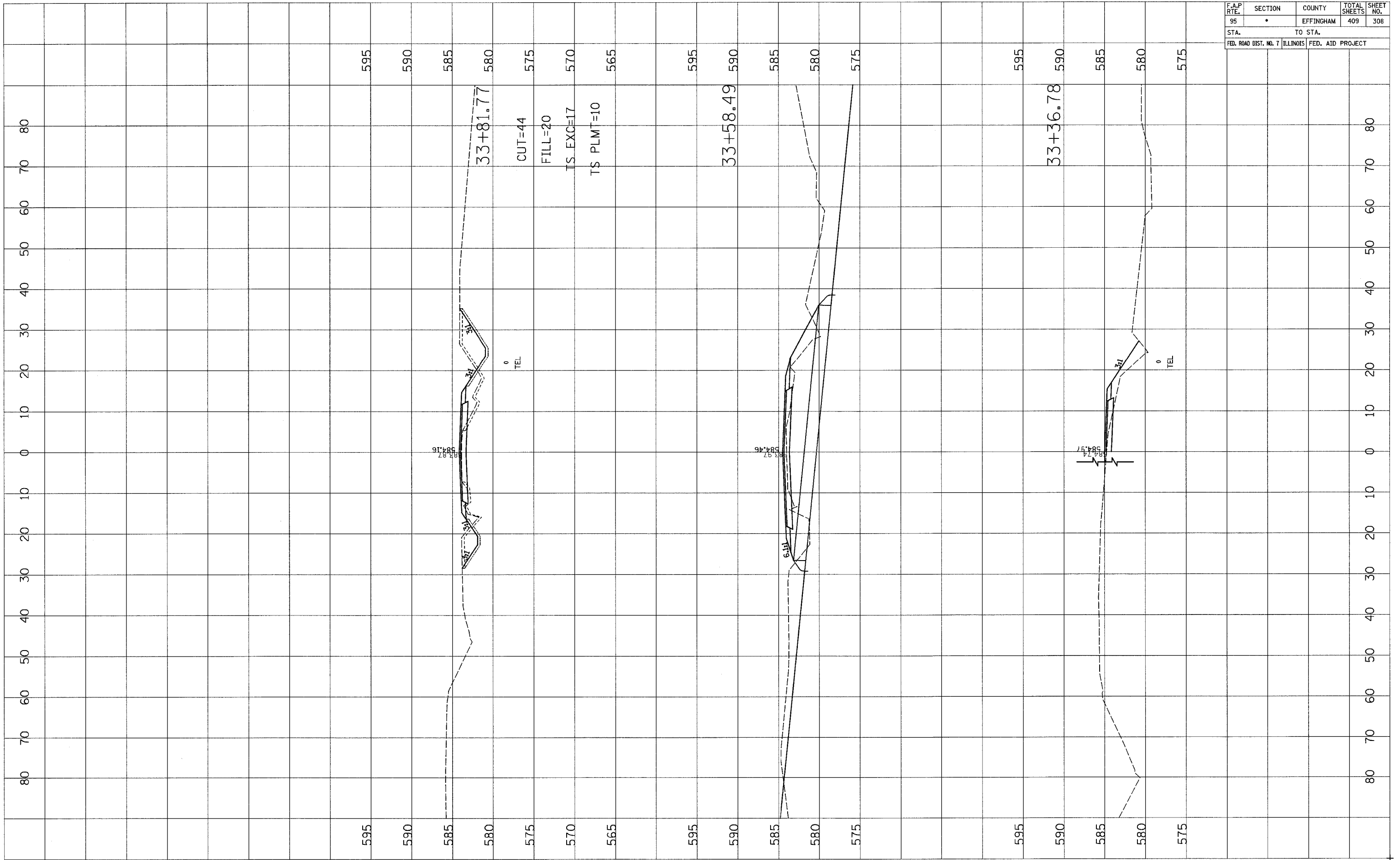
FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	307
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	308
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



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

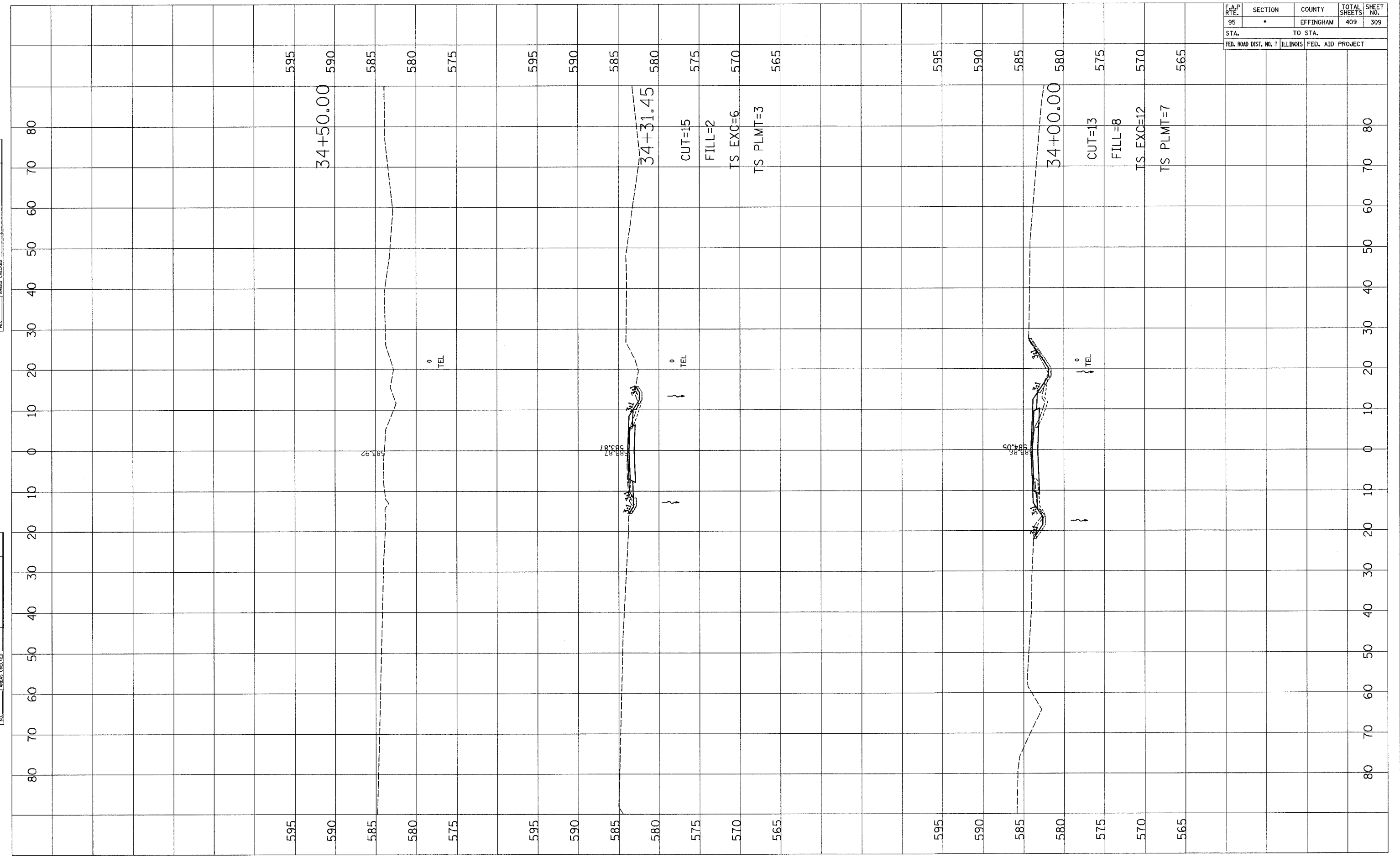
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	309
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

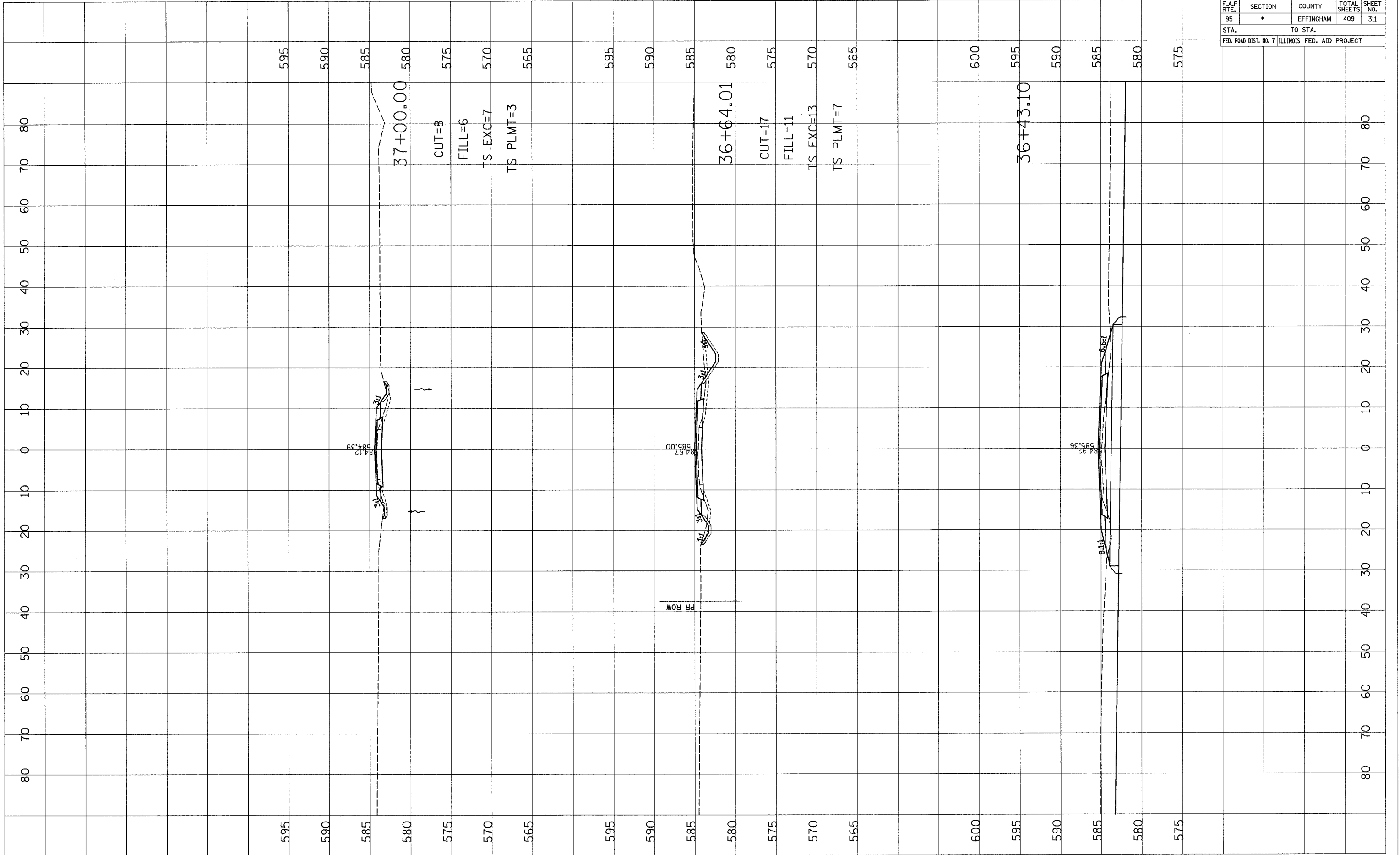
FINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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





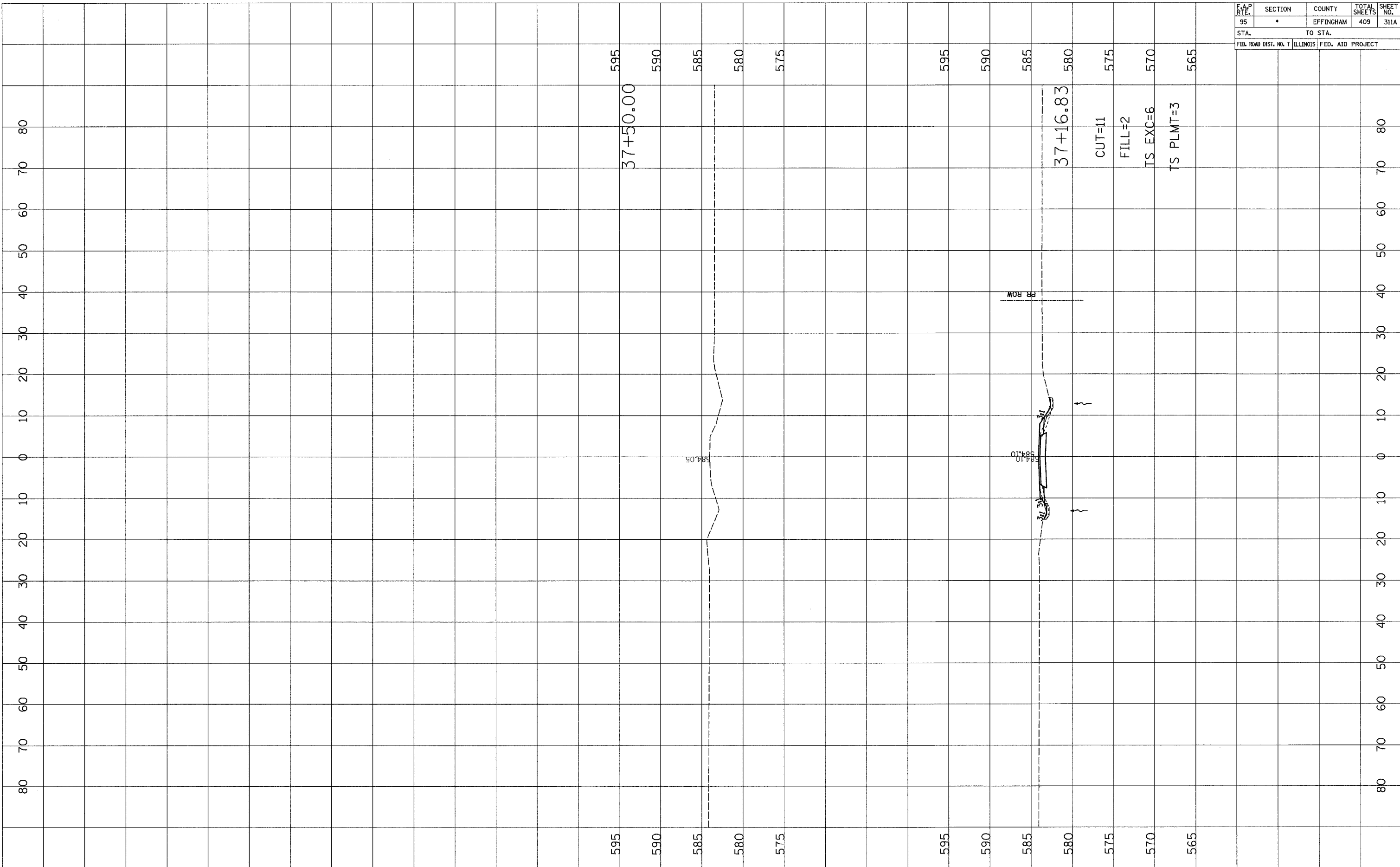
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	311
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT		



DATE	BY

DATE	BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	311A
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

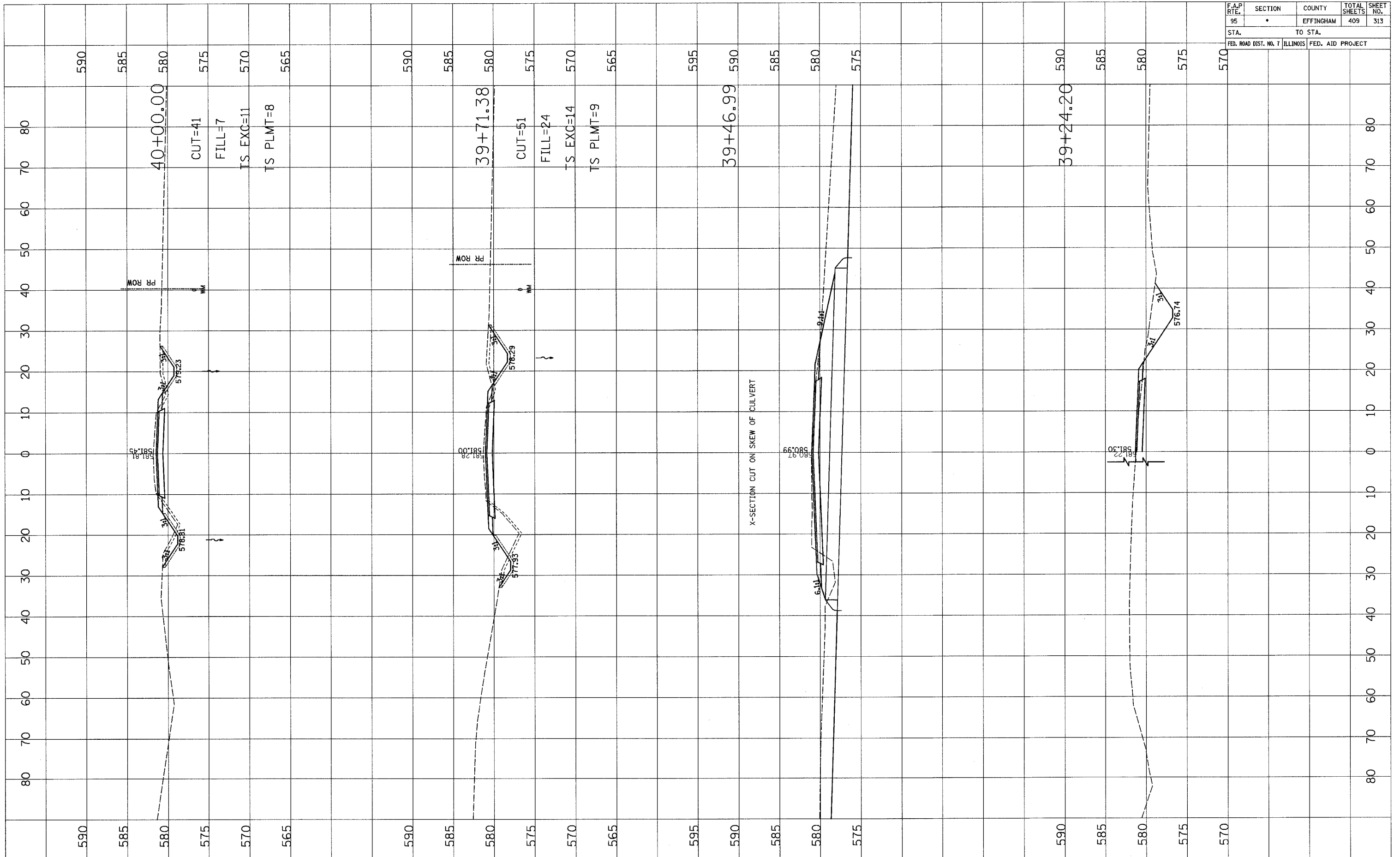


FINAL SURVEY	SURVEYED	DATE
NO.		
NOTE BOOK	PLOTTED	DATE
NO.		
AREAS CHECKED		

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



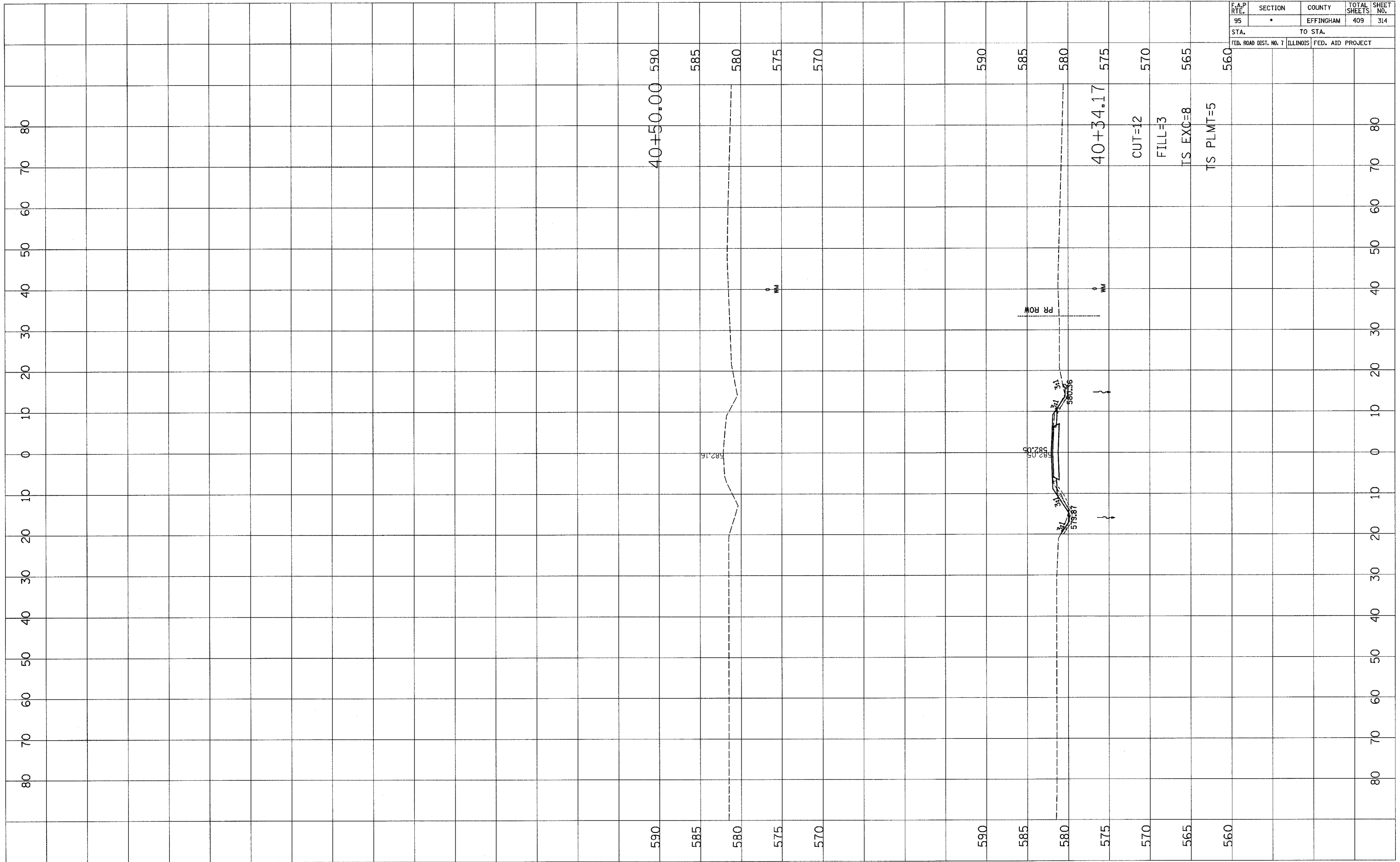
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	313
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT



FINAL SURVEY	ISSUED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	ISSUED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	314
STA. 95		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



DATE	BY

DATE	BY

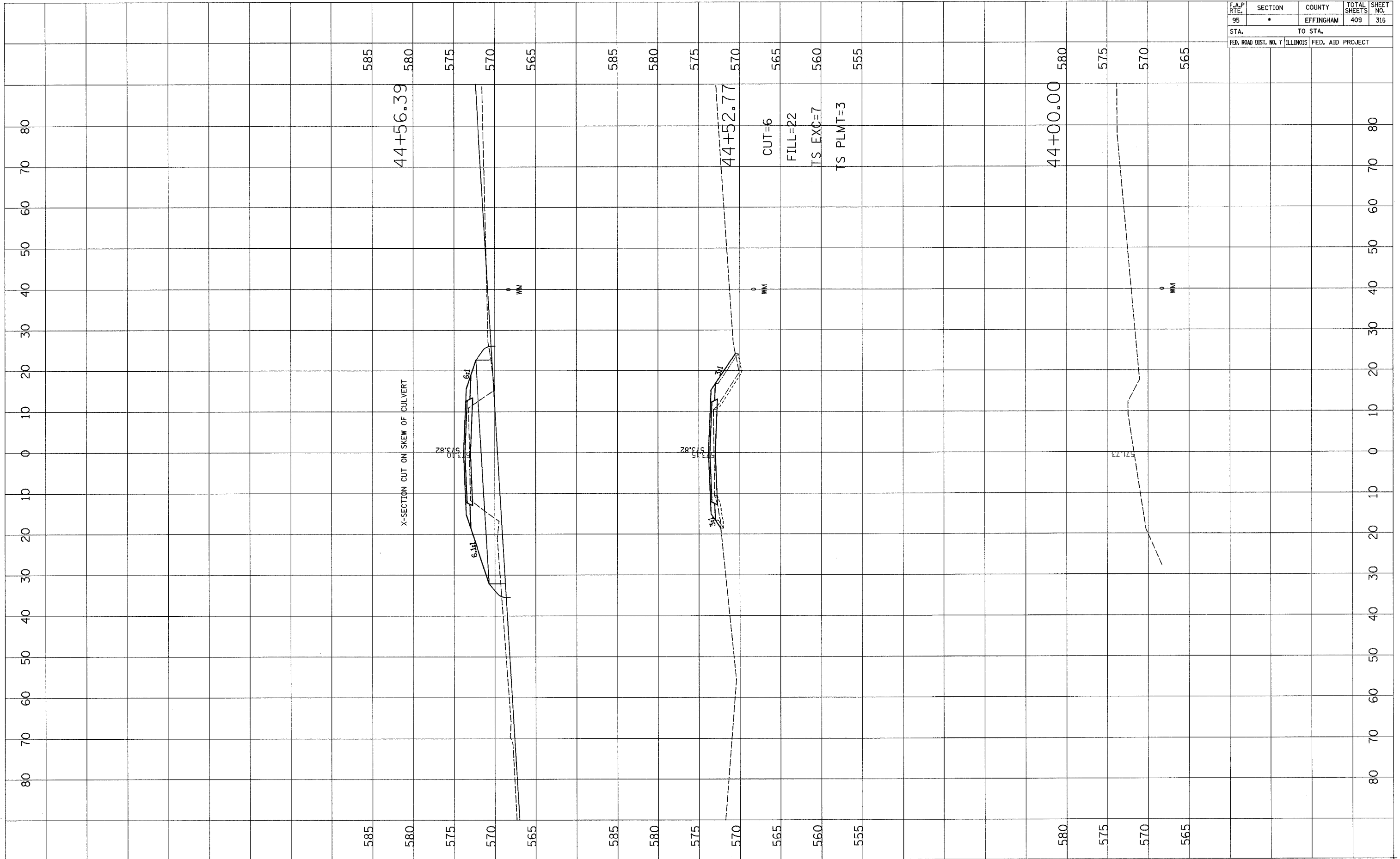




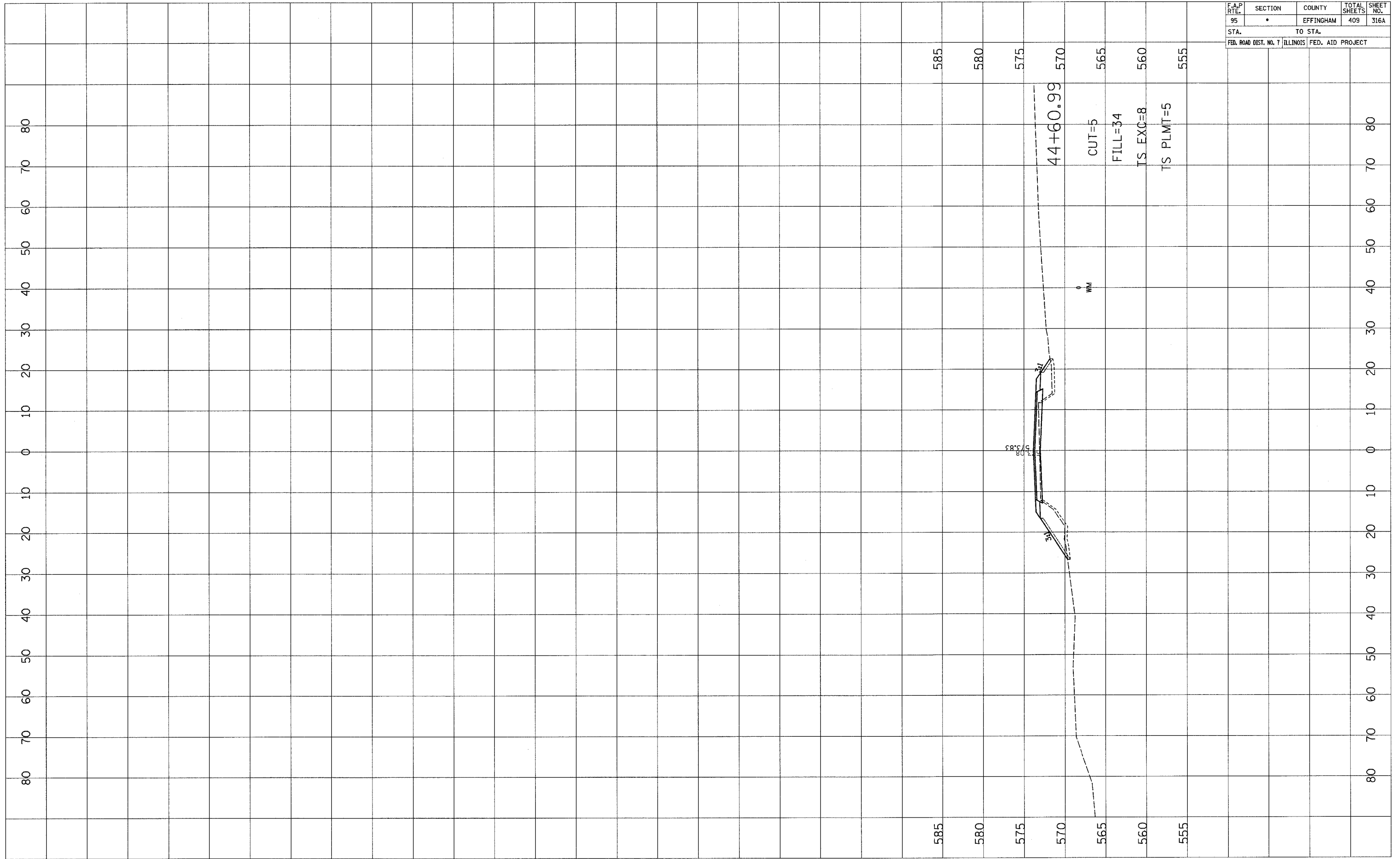
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	316
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	316A
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



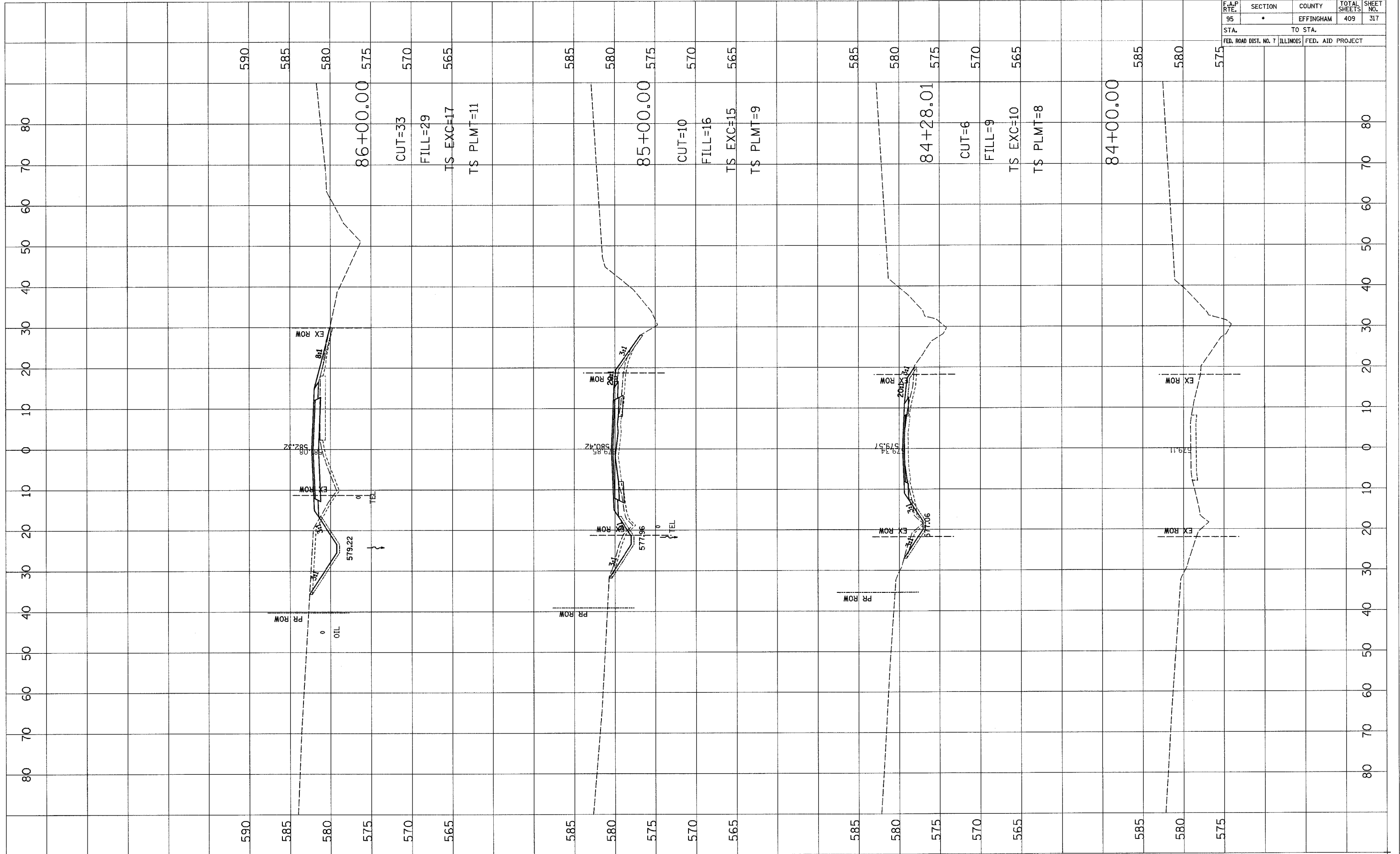
FINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	317
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
AREAS CHECKED		



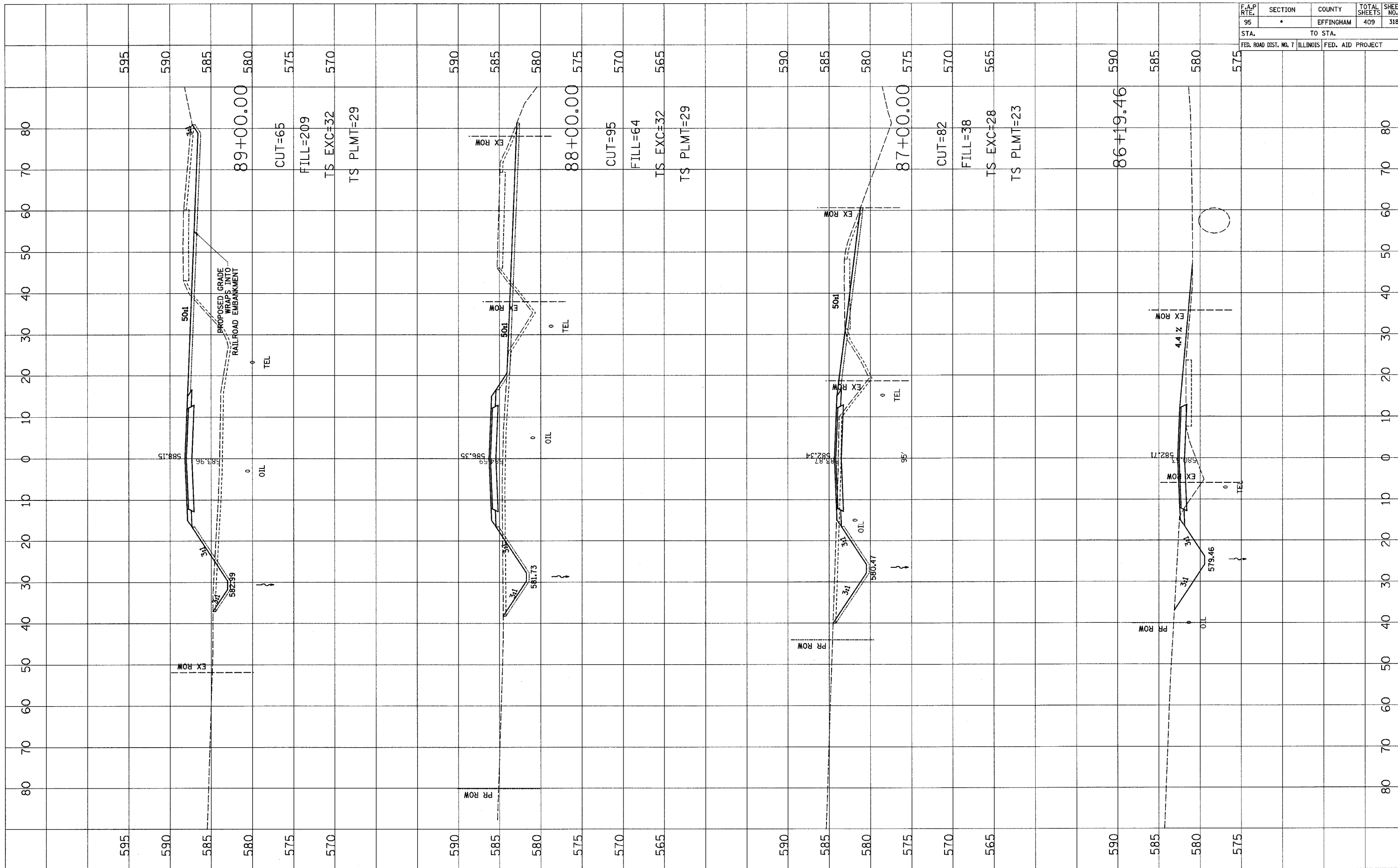
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	318
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

BY	DATE

FINAL SURVEY  
 SURVEYED TO DATE  
 NOTE BOOK NO.  
 AREAS CHECKED

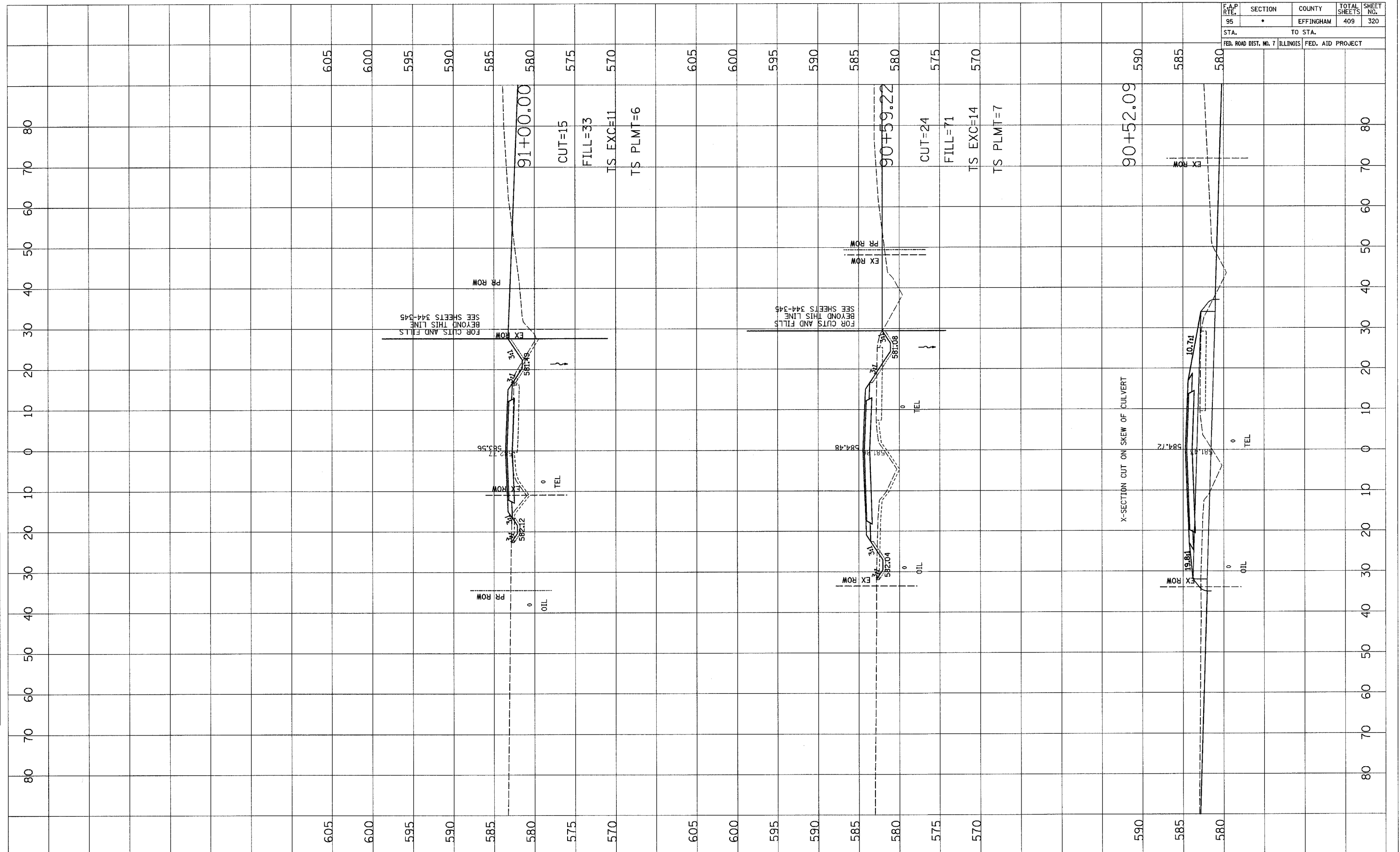
BY	DATE

ORIGINAL SURVEY  
 SURVEYED TO DATE  
 NOTE BOOK NO.  
 AREAS CHECKED





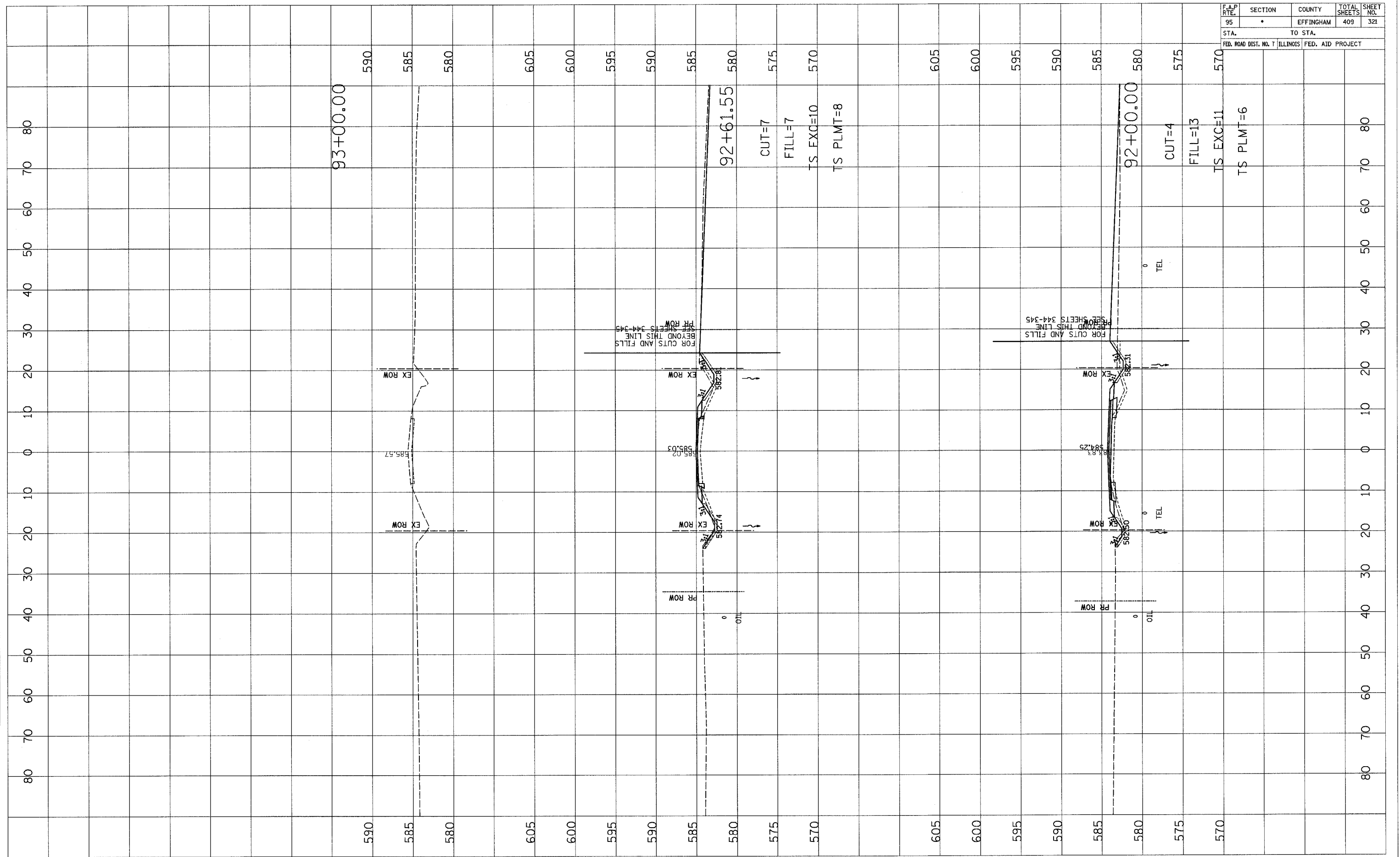
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	320
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		



DATE	BY
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	BY
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	321
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



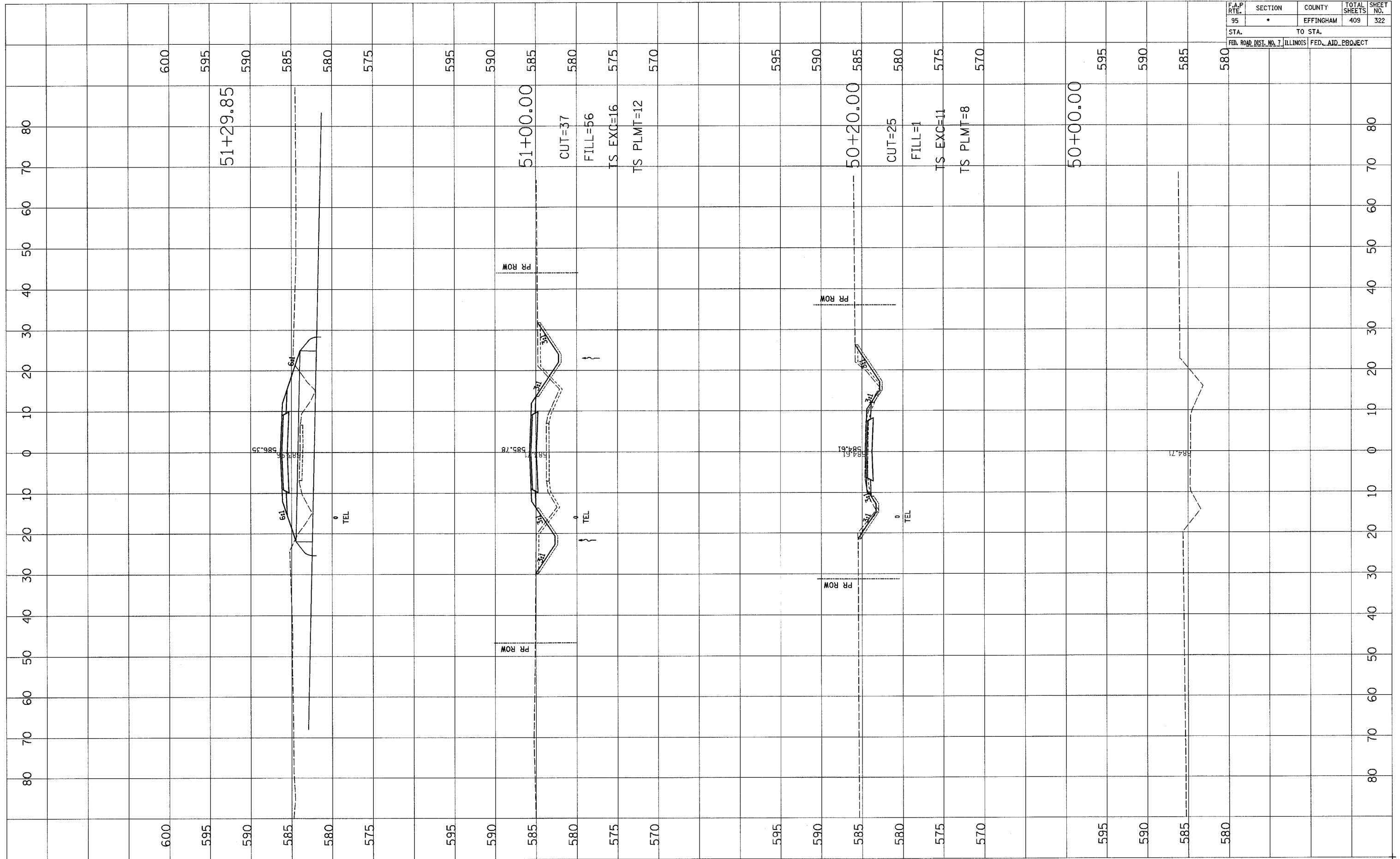
DATE	BY

DATE	BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	322
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

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

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

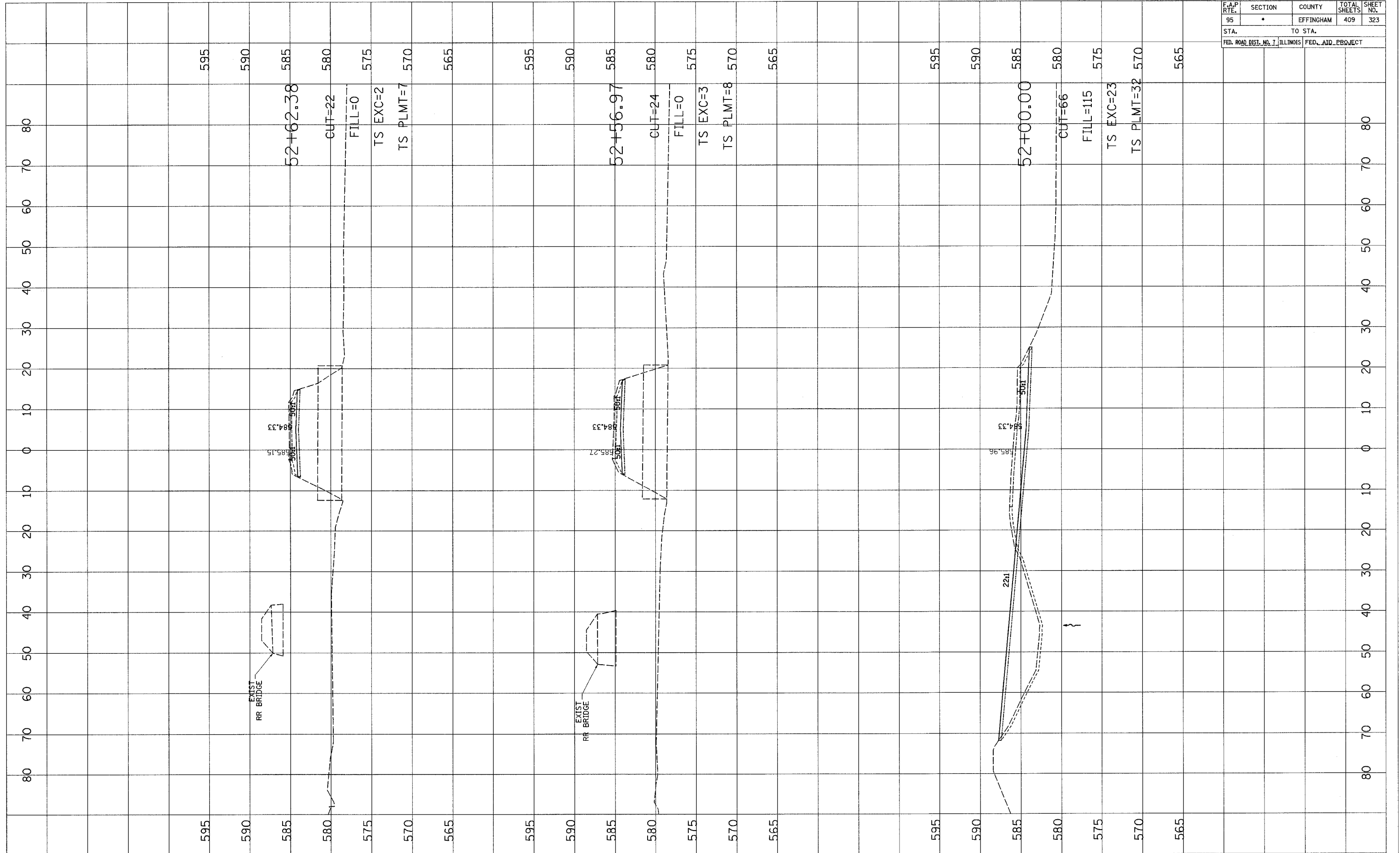




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	323
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

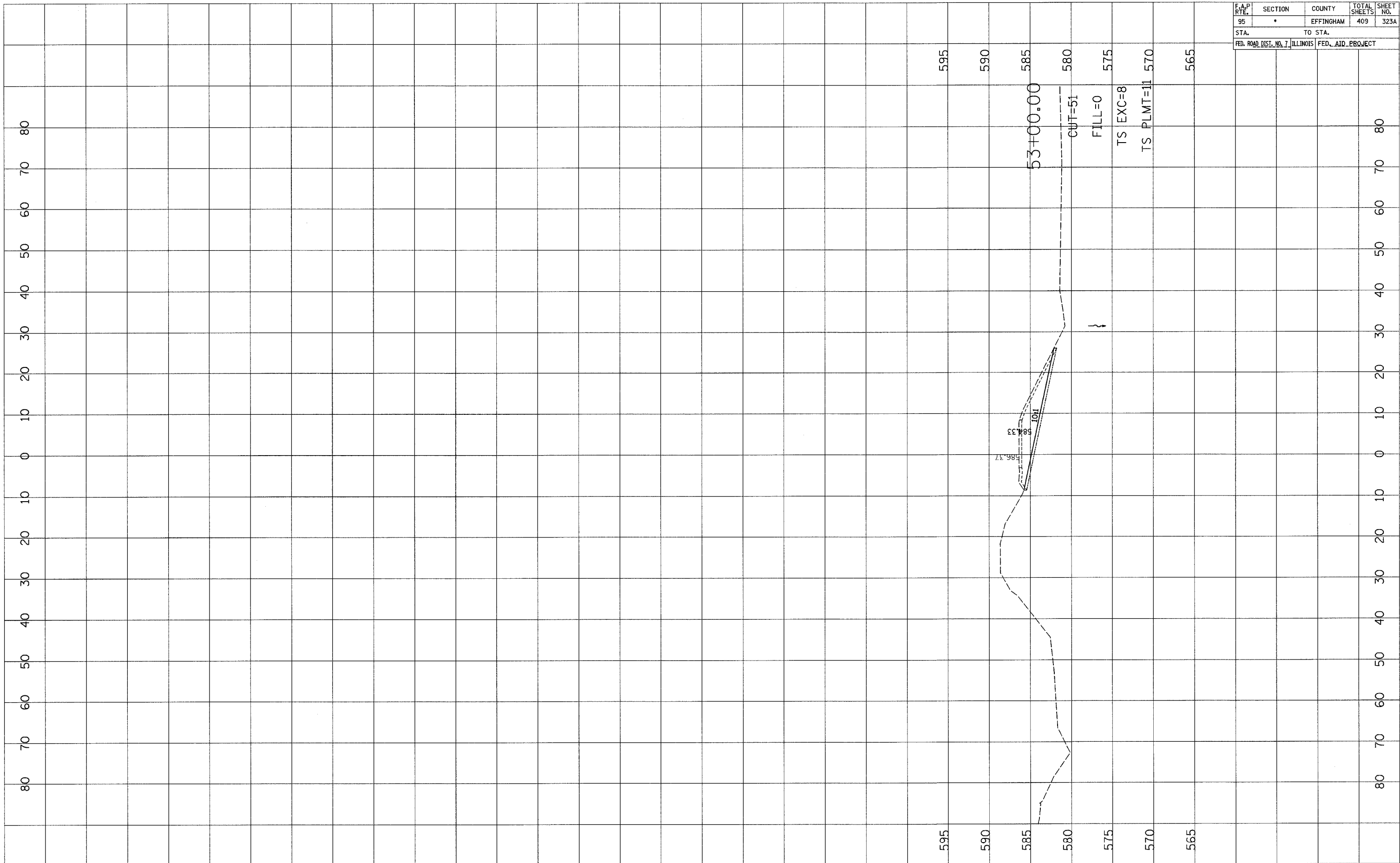
ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	323A
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

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

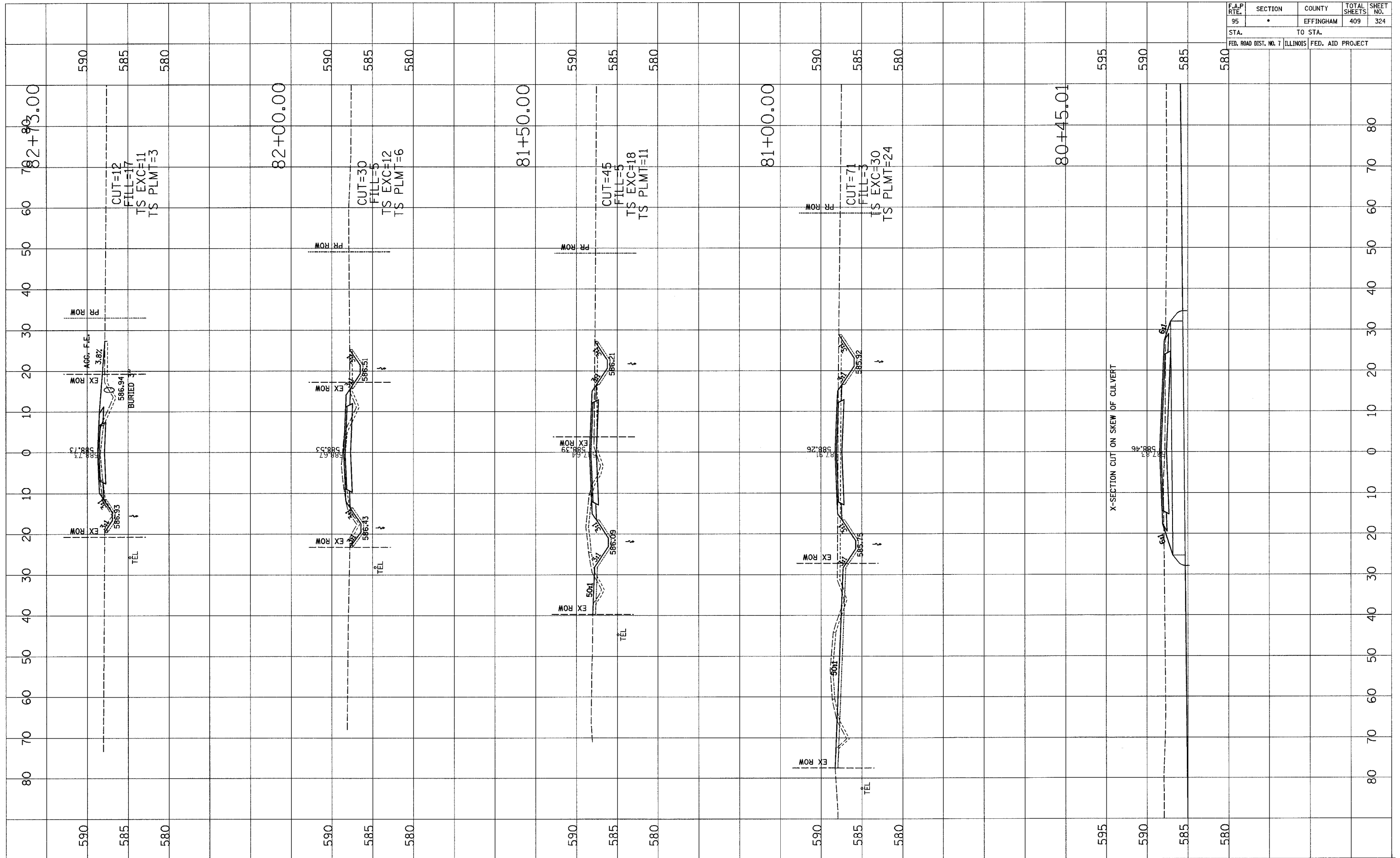
ORIGINAL SURVEY	DATE
SURVEYED BY	
NOTE BOOK NO.	
TEMPLATE AREAS CHECKED	



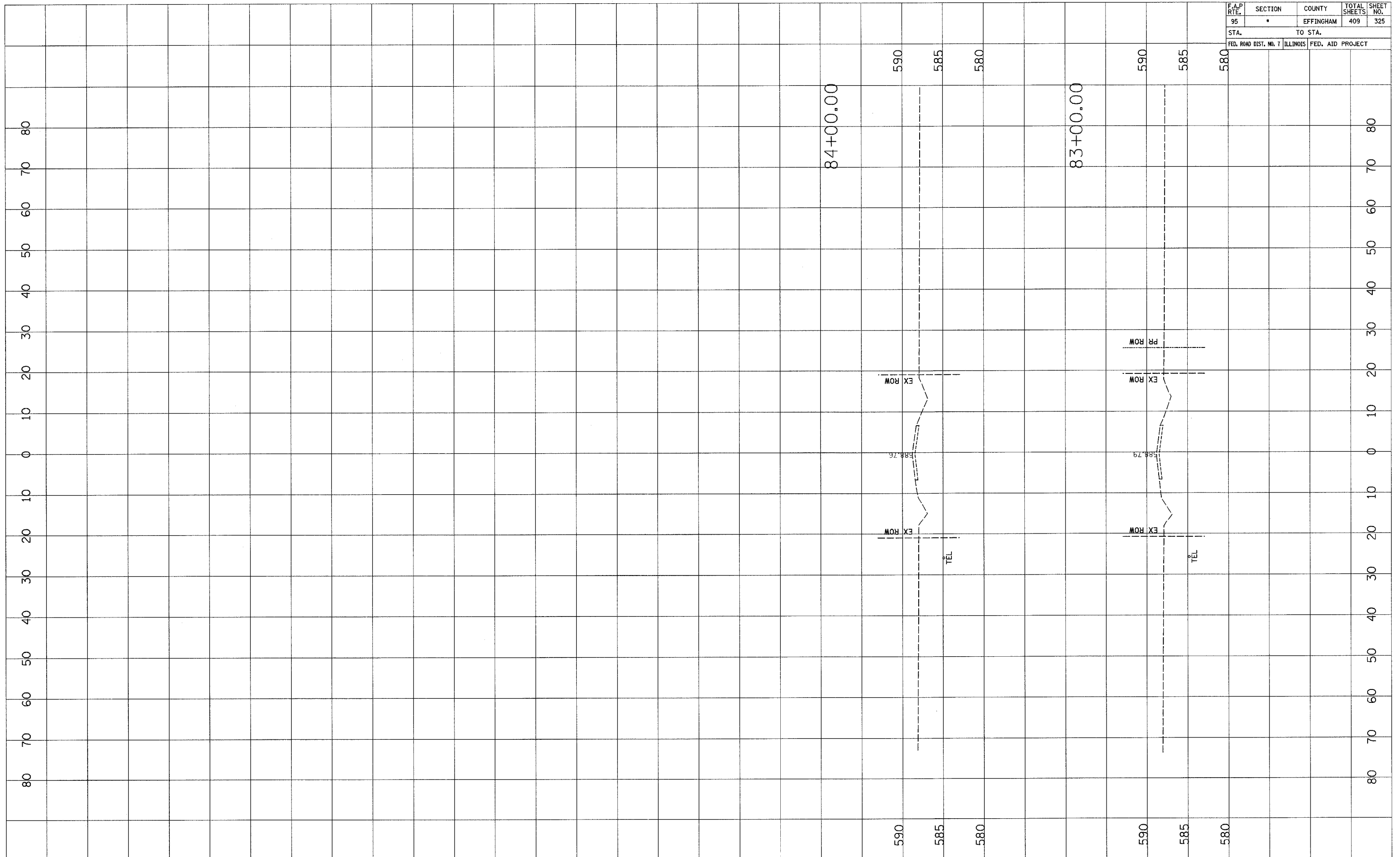
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	324
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

DATE	BY

DATE	BY



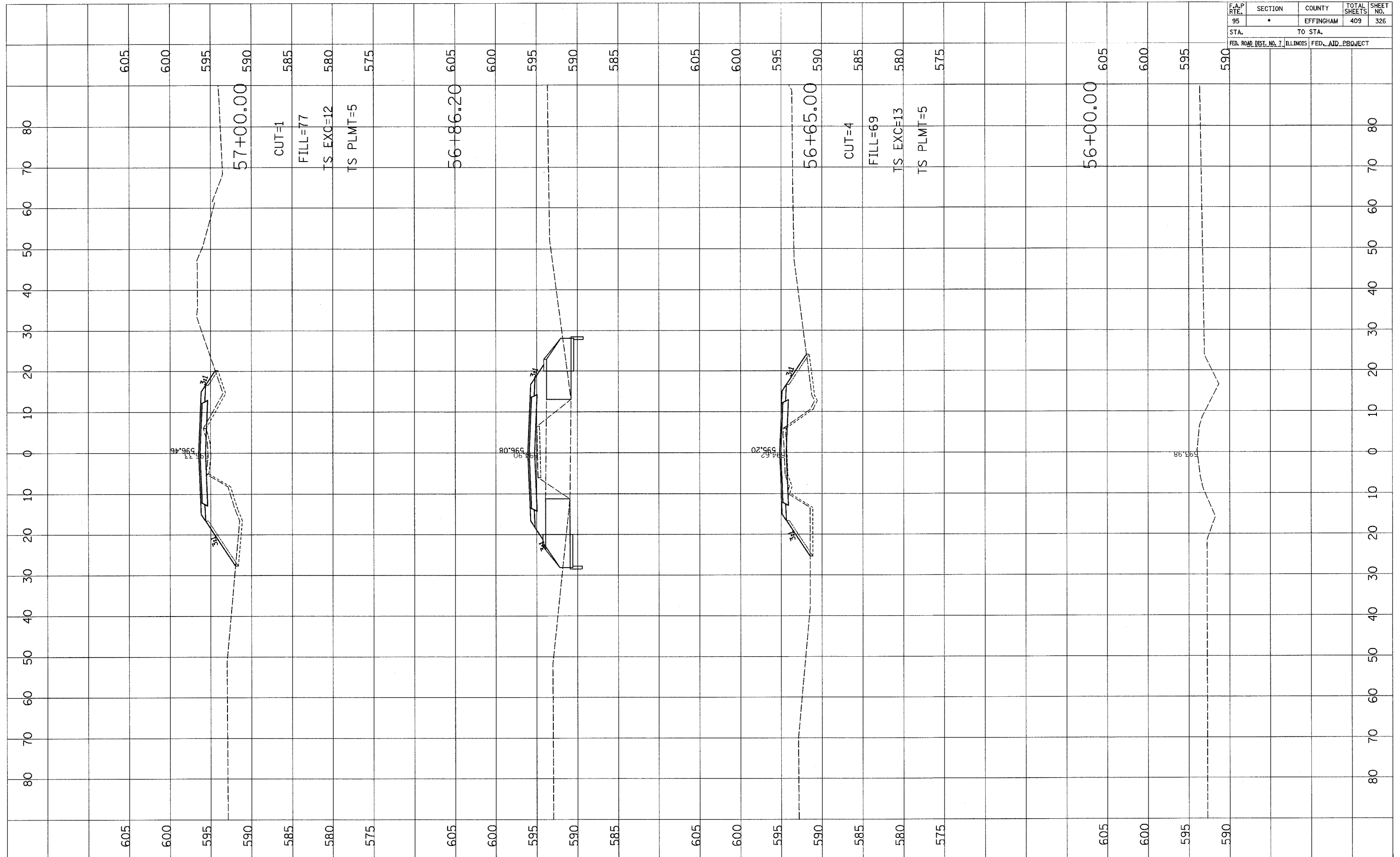
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95	*	EFFINGHAM	409	325
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



DATE	BY
NO.	AREAS CHECKED
NO.	AREAS CHECKED
NO.	AREAS CHECKED
NO.	AREAS CHECKED

DATE	BY
NO.	AREAS CHECKED
NO.	AREAS CHECKED
NO.	AREAS CHECKED
NO.	AREAS CHECKED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	326
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



FINAL SURVEY	DATE
NO.	
NO.	
NO.	
NO.	

ORIGINAL SURVEY	DATE
NO.	
NO.	
NO.	
NO.	

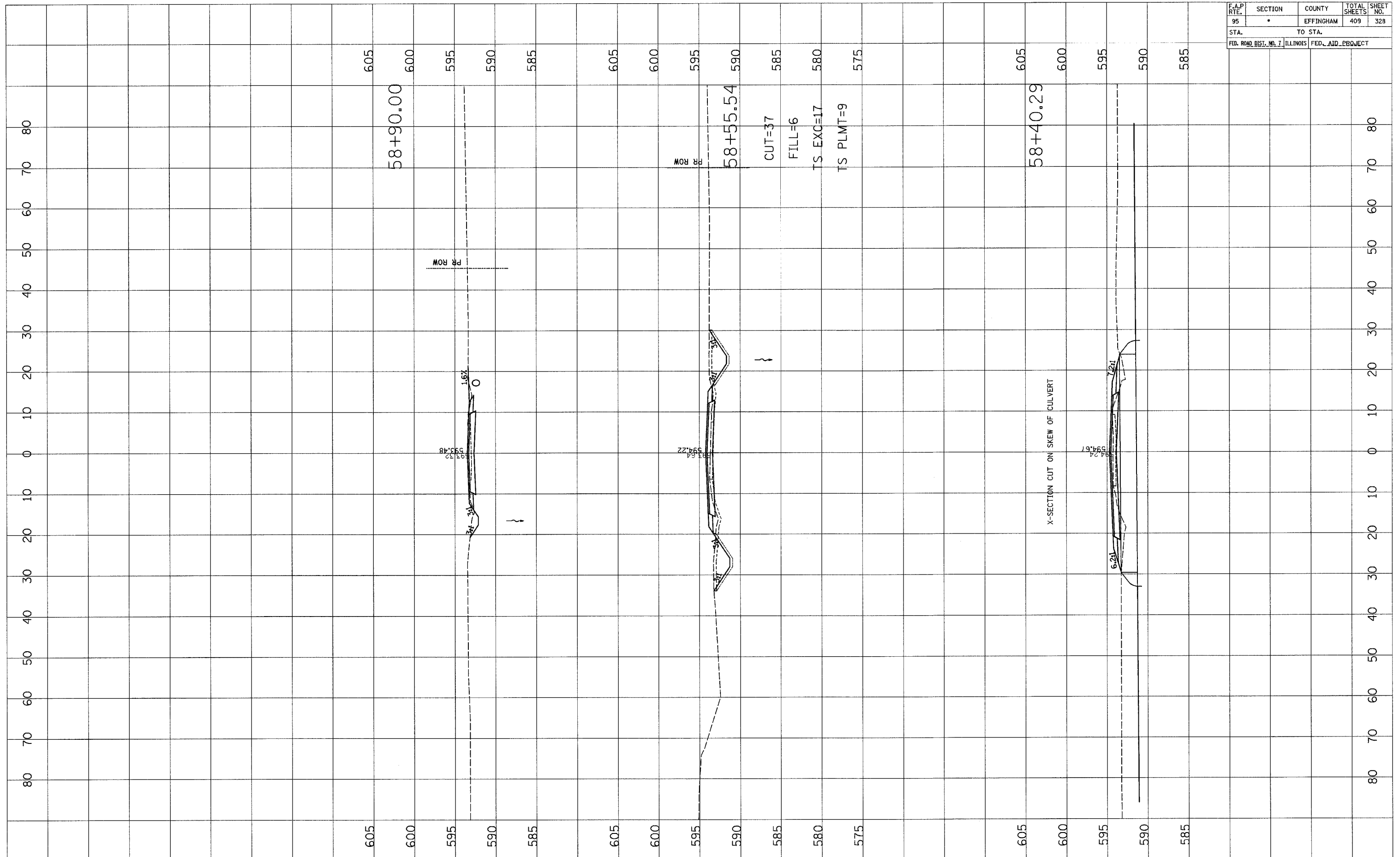




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	328
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

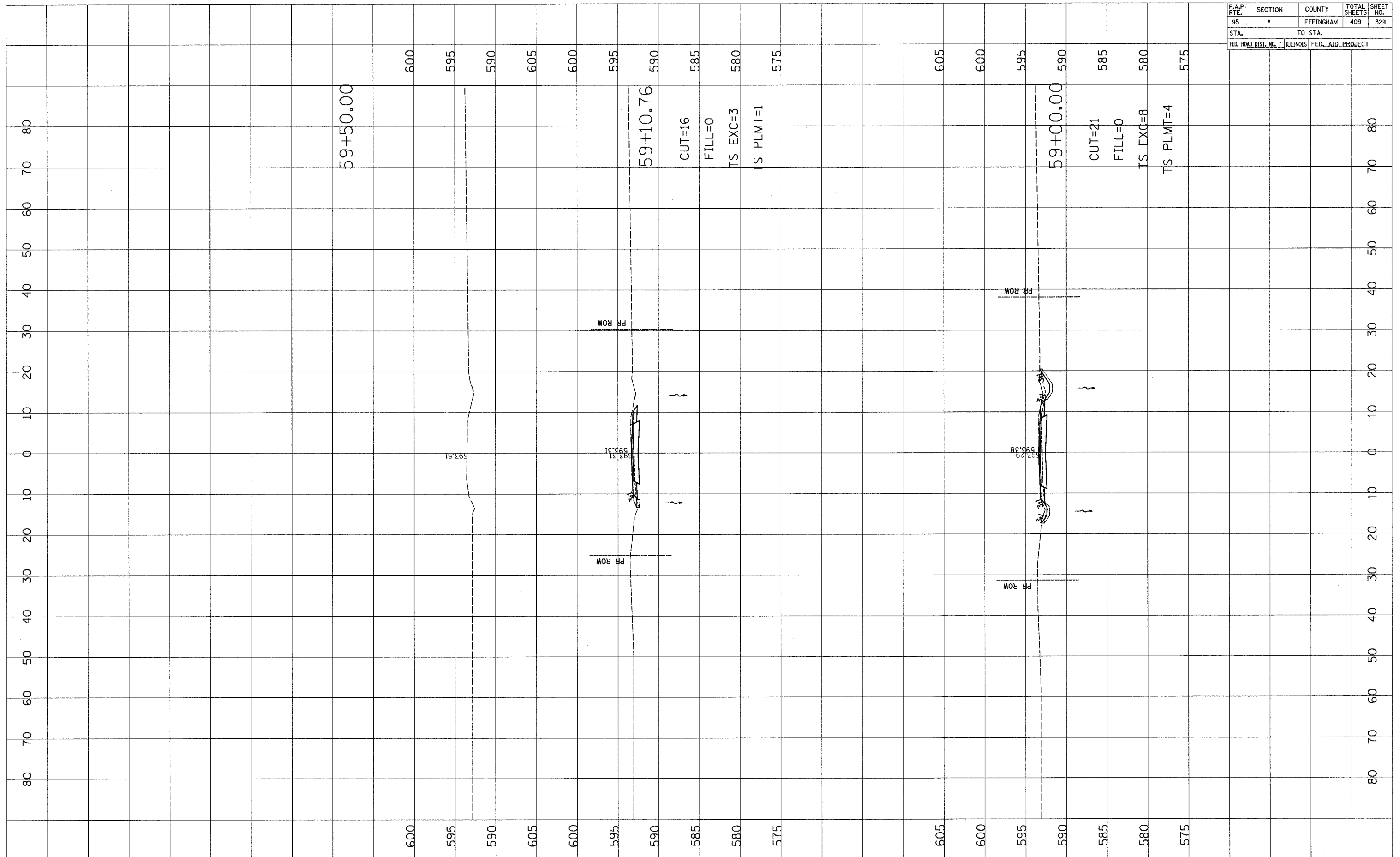
FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

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





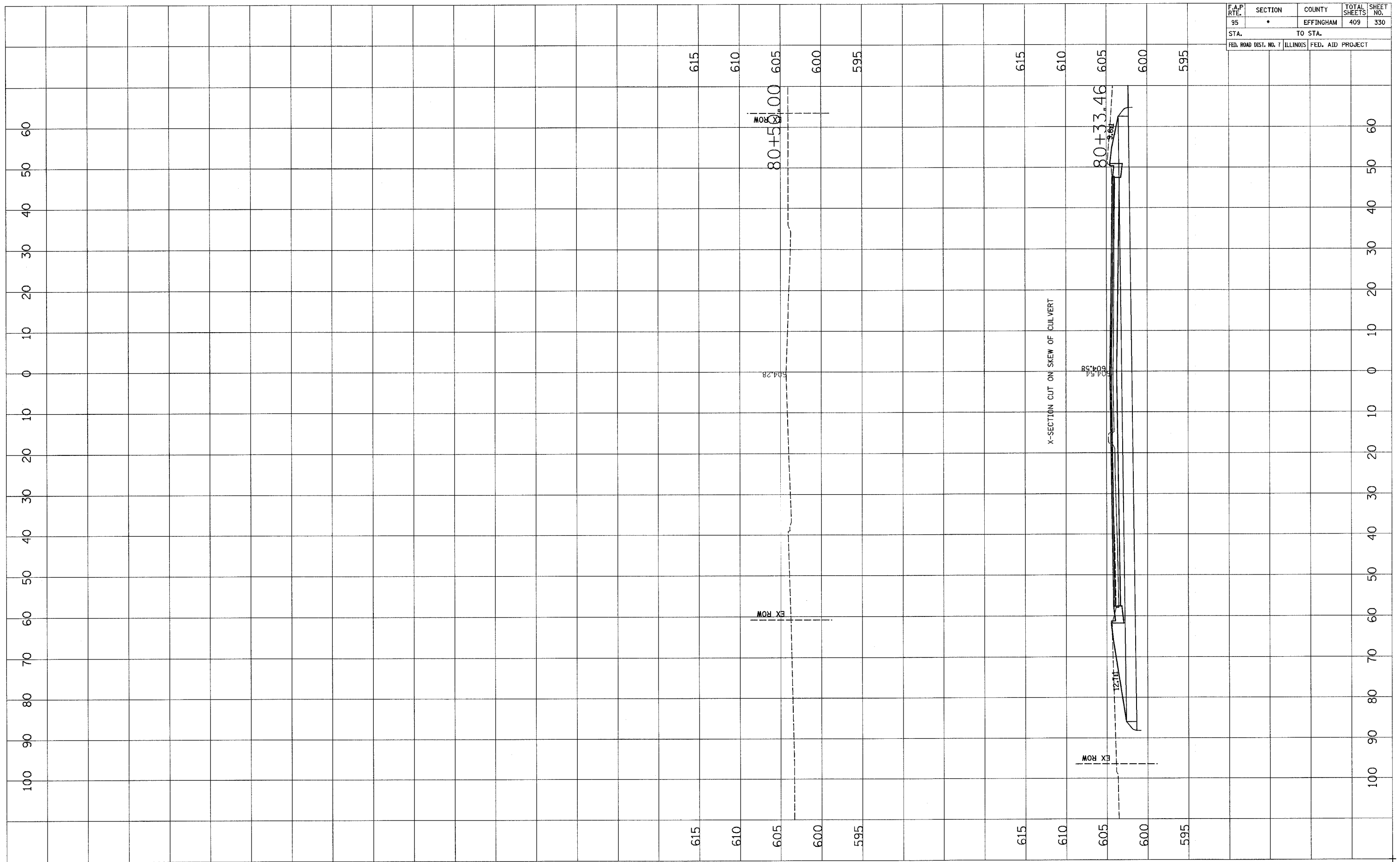
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	329
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



FINAL SURVEY	DATE
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	330
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



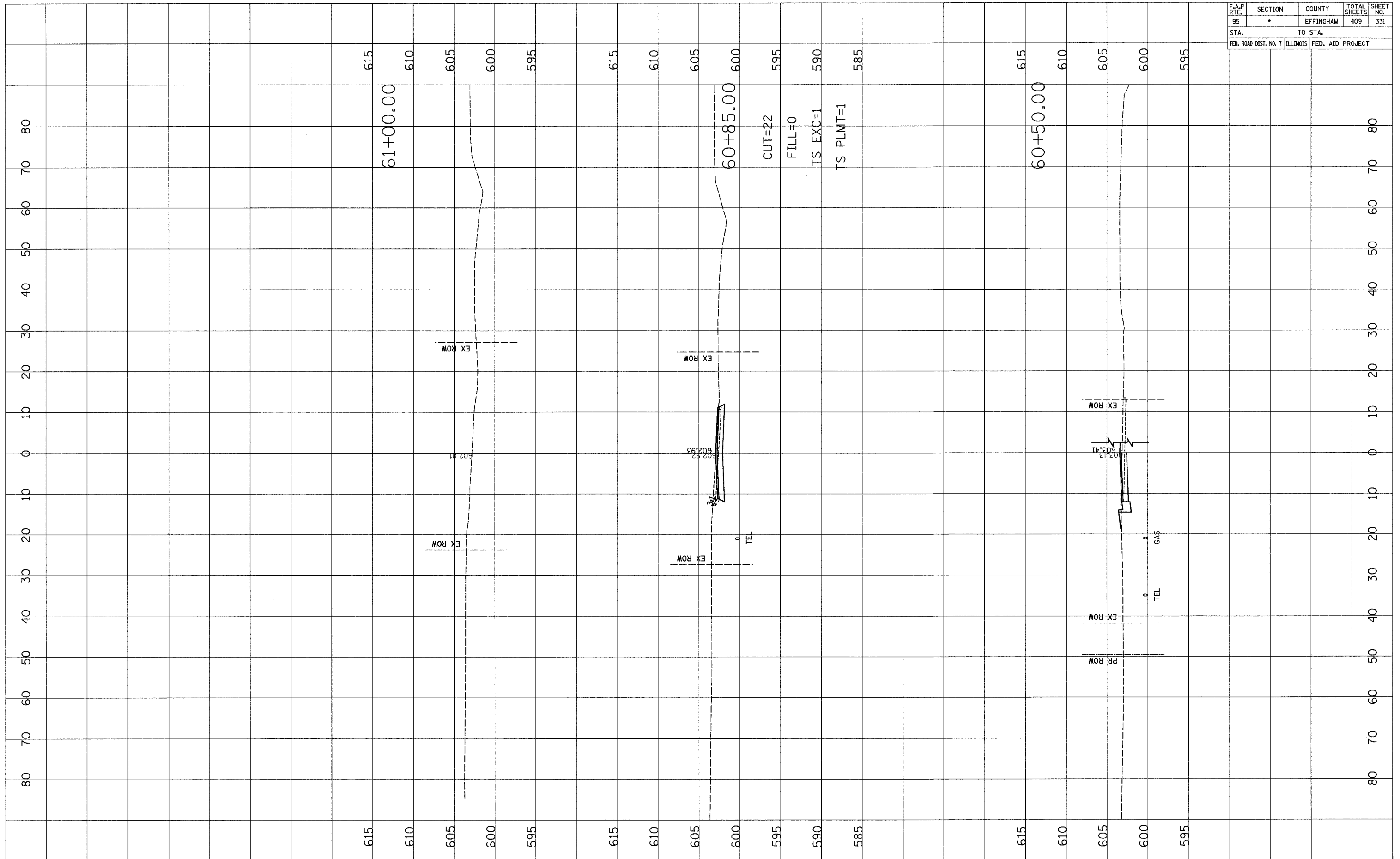
DATE	BY
SURVEYED	
SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	BY
SURVEYED	
SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	331
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	DATE
SURVEYED BY	
NOTE BOOK NO.	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED BY	
NOTE BOOK NO.	
AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	332
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NOTE BOOK NO. \_\_\_\_\_

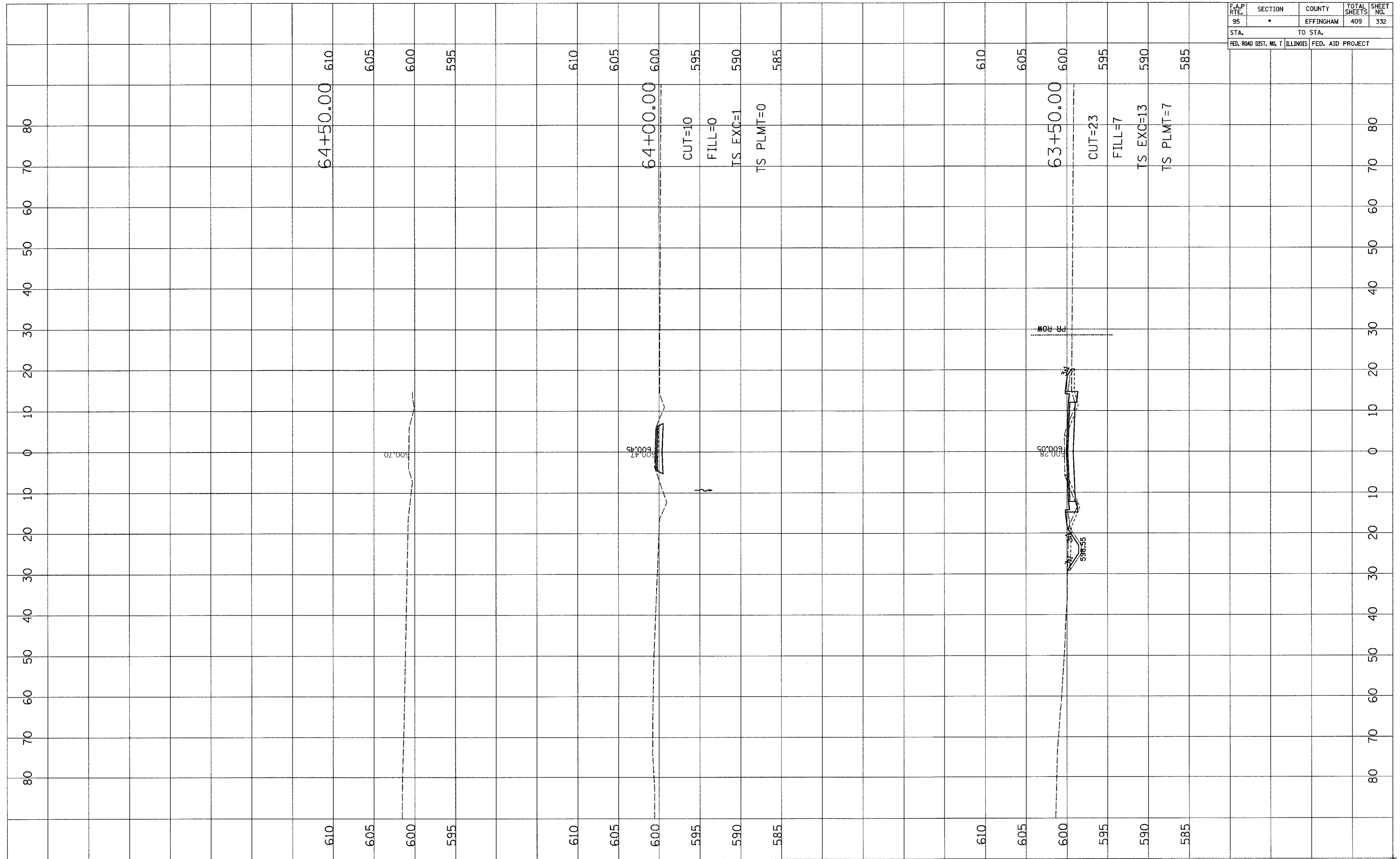
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BY \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINAL SURVEY NOTE BOOK NO. \_\_\_\_\_

SURVEYED SURVEY TEMPLATE AREAS CHECKED

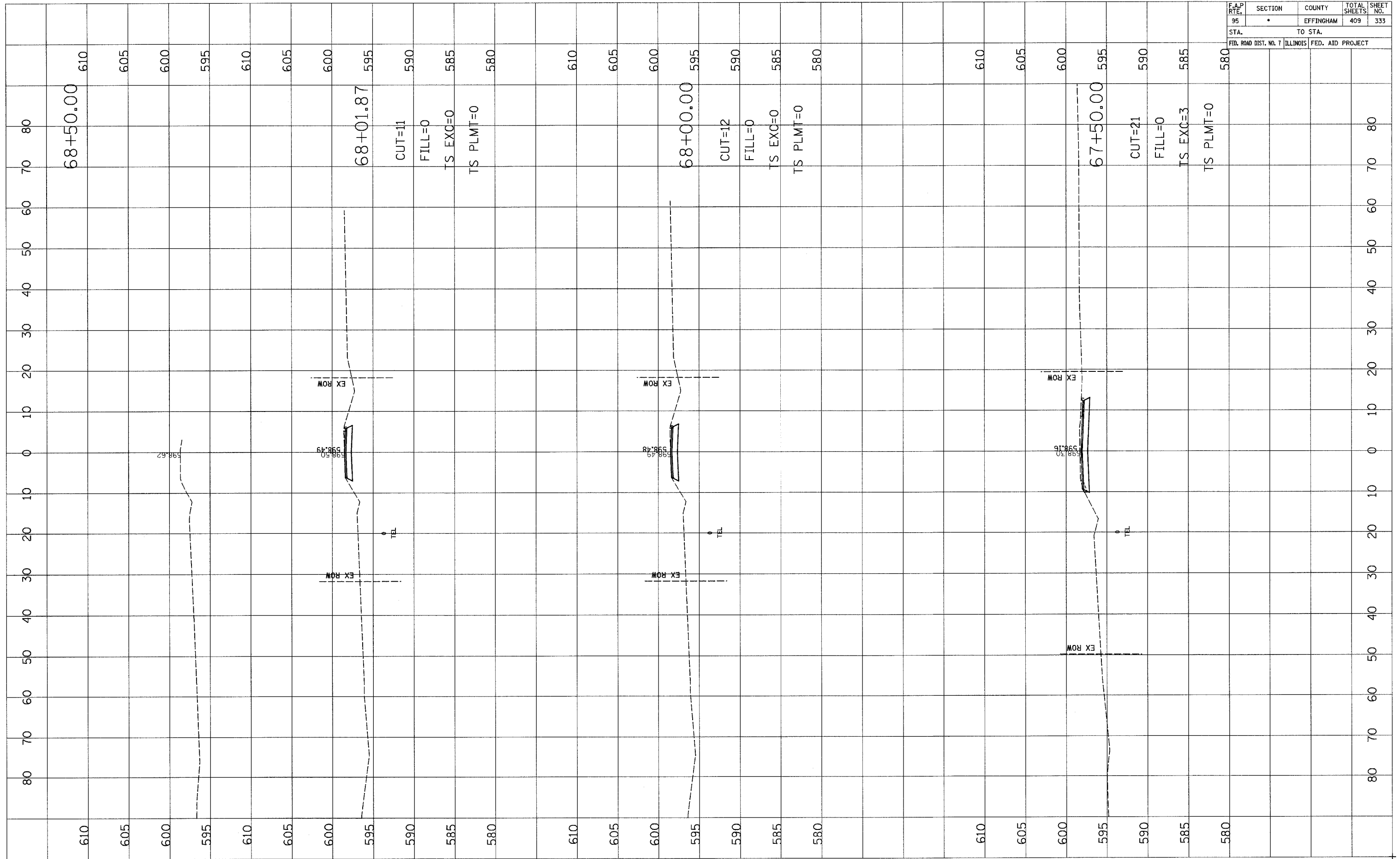
BY \_\_\_\_\_ DATE \_\_\_\_\_



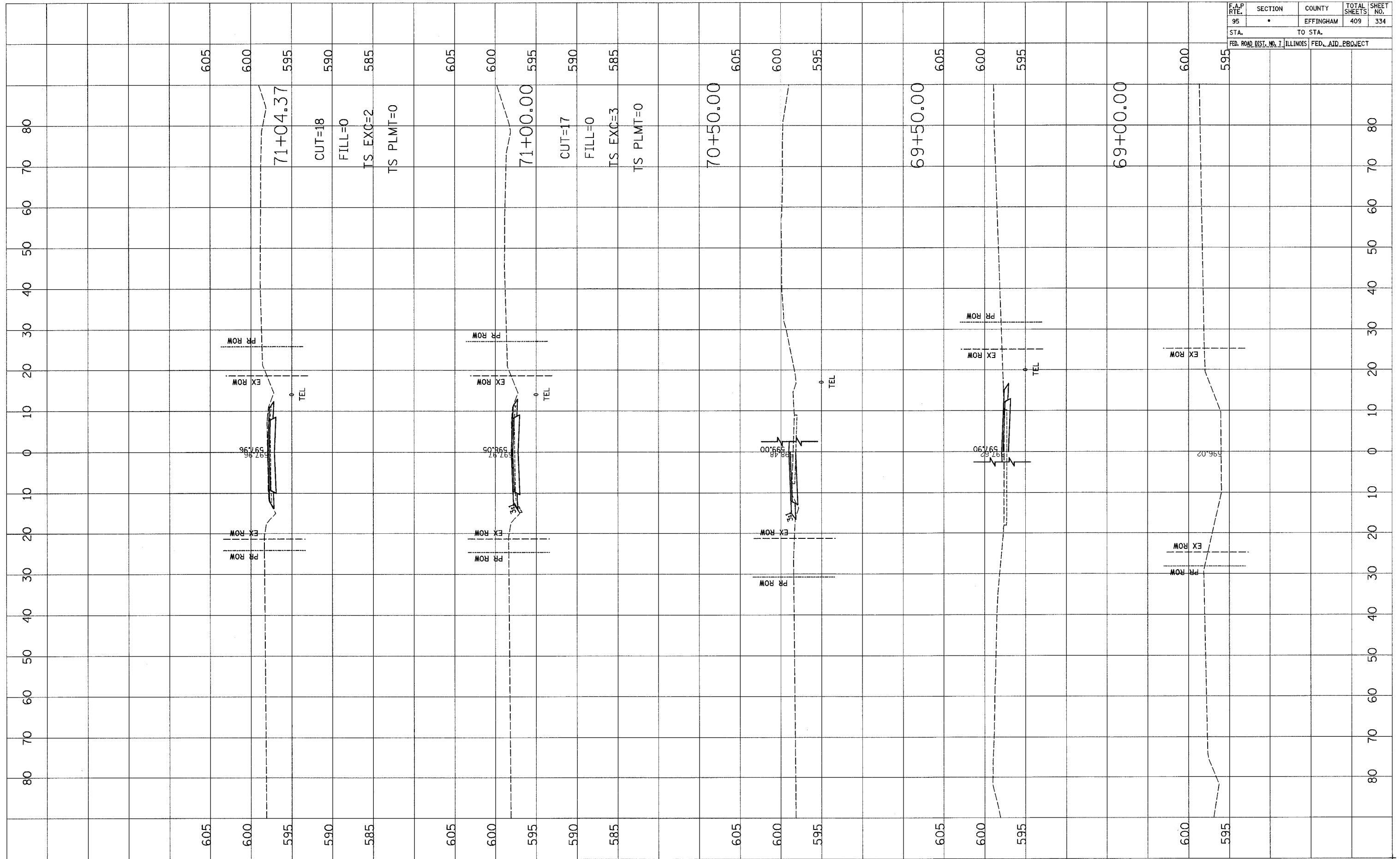
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	333
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	334
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



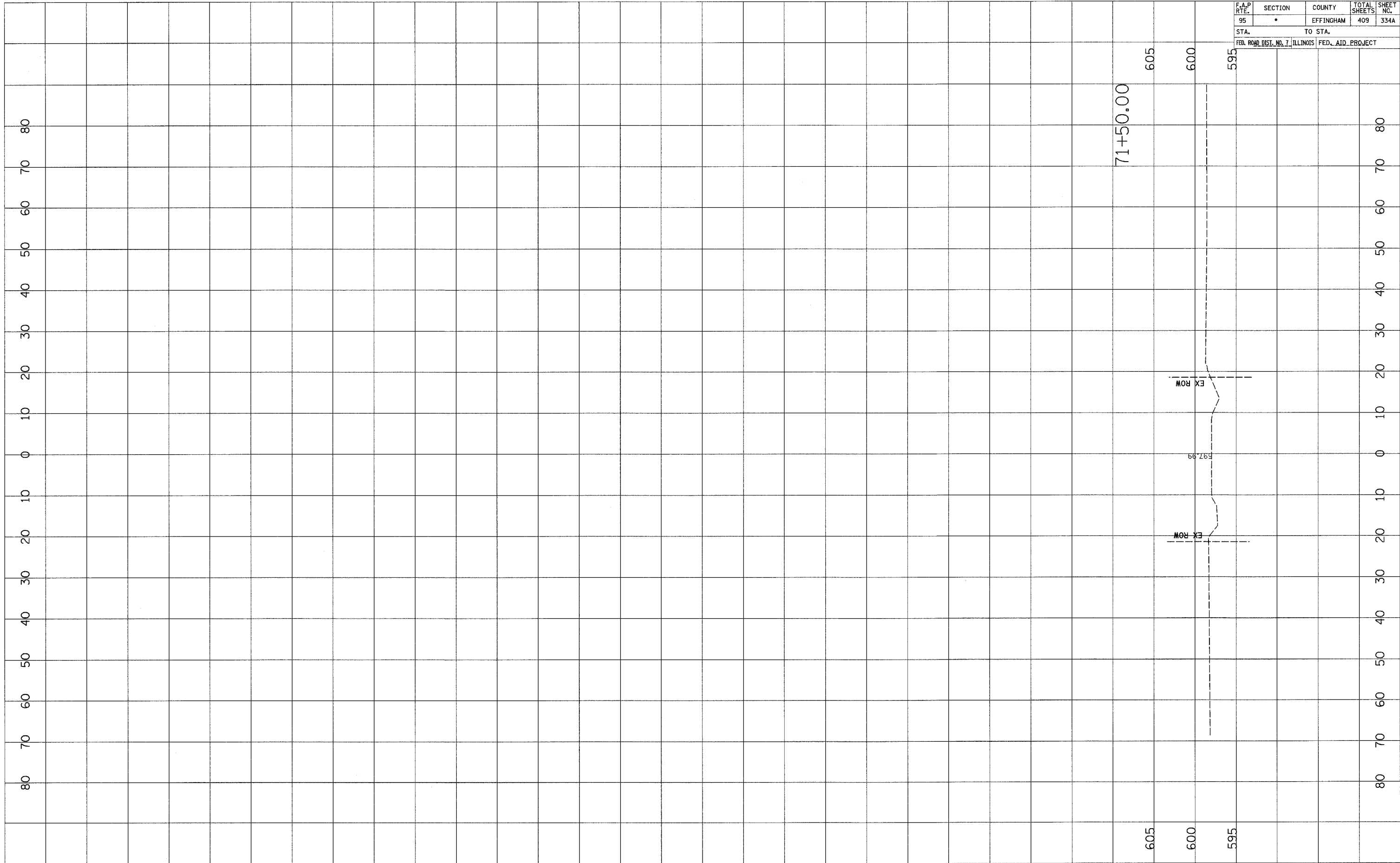
FINAL SURVEY	DATE
SURVEYED BY	
NOTE BOOK NO.	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED BY	
NOTE BOOK NO.	
AREAS CHECKED	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	334A
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
SURVEYED BY	
NOTE BOOK NO.	
AREAS CHECKED	

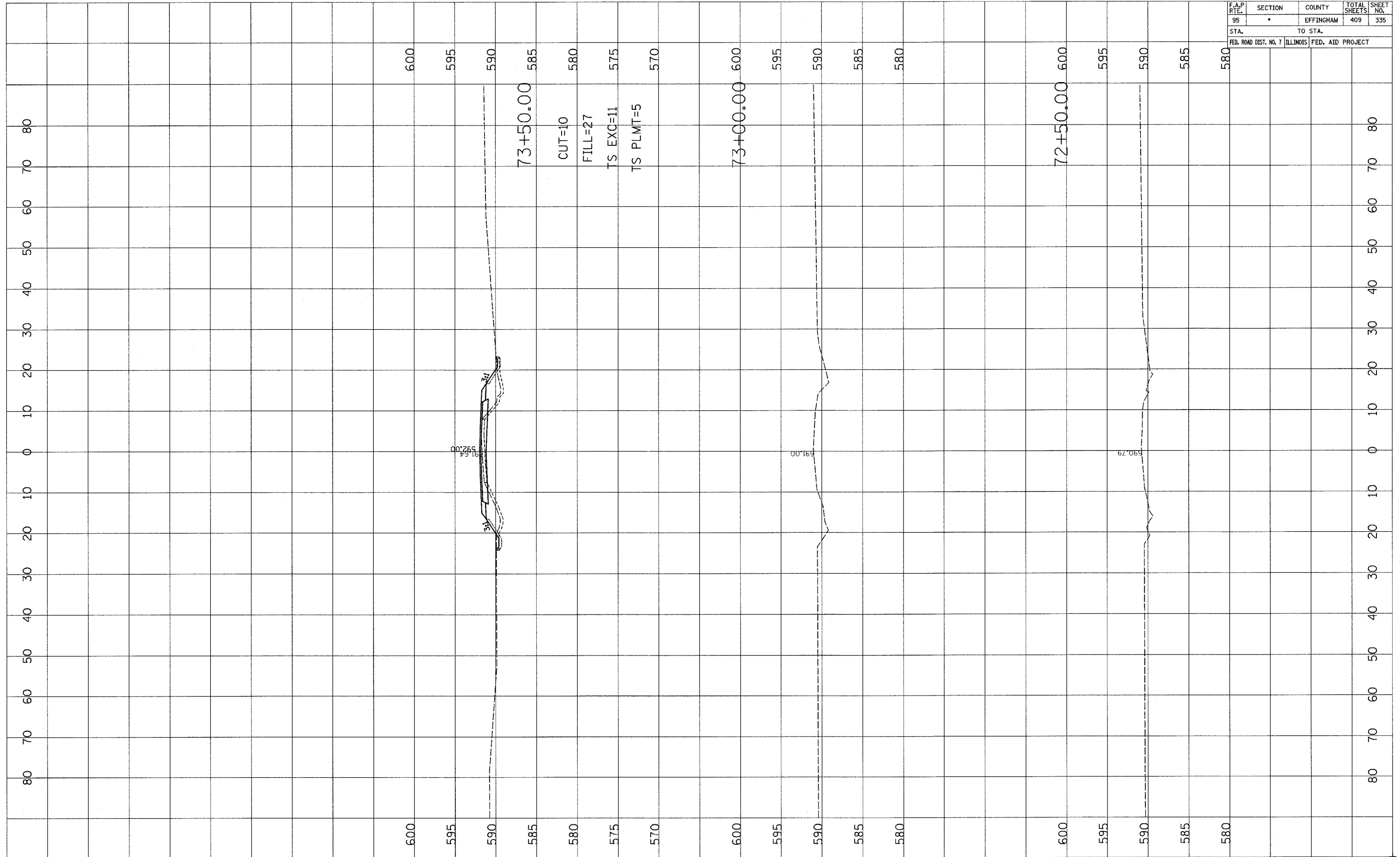
ORIGINAL SURVEY	DATE
SURVEYED BY	
NOTE BOOK NO.	
AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	335
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
SURVEYED BY	
NOTE BOOK NO.	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED BY	
NOTE BOOK NO.	
AREAS CHECKED	



73+50.00  
 CUT=10  
 FILL=27  
 TS EXC=11  
 TS PLMT=5

73+00.00

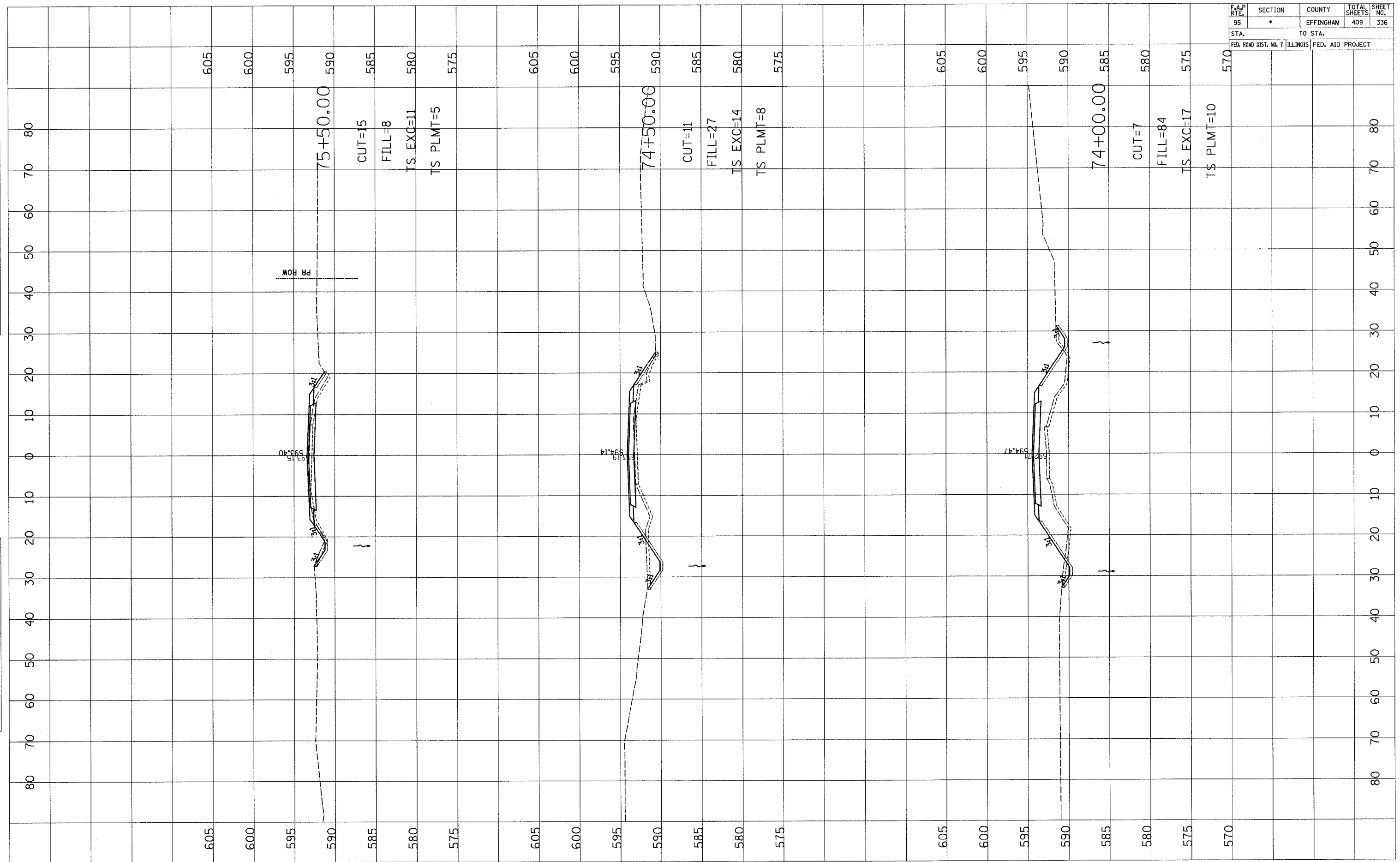
72+50.00



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	336
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

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

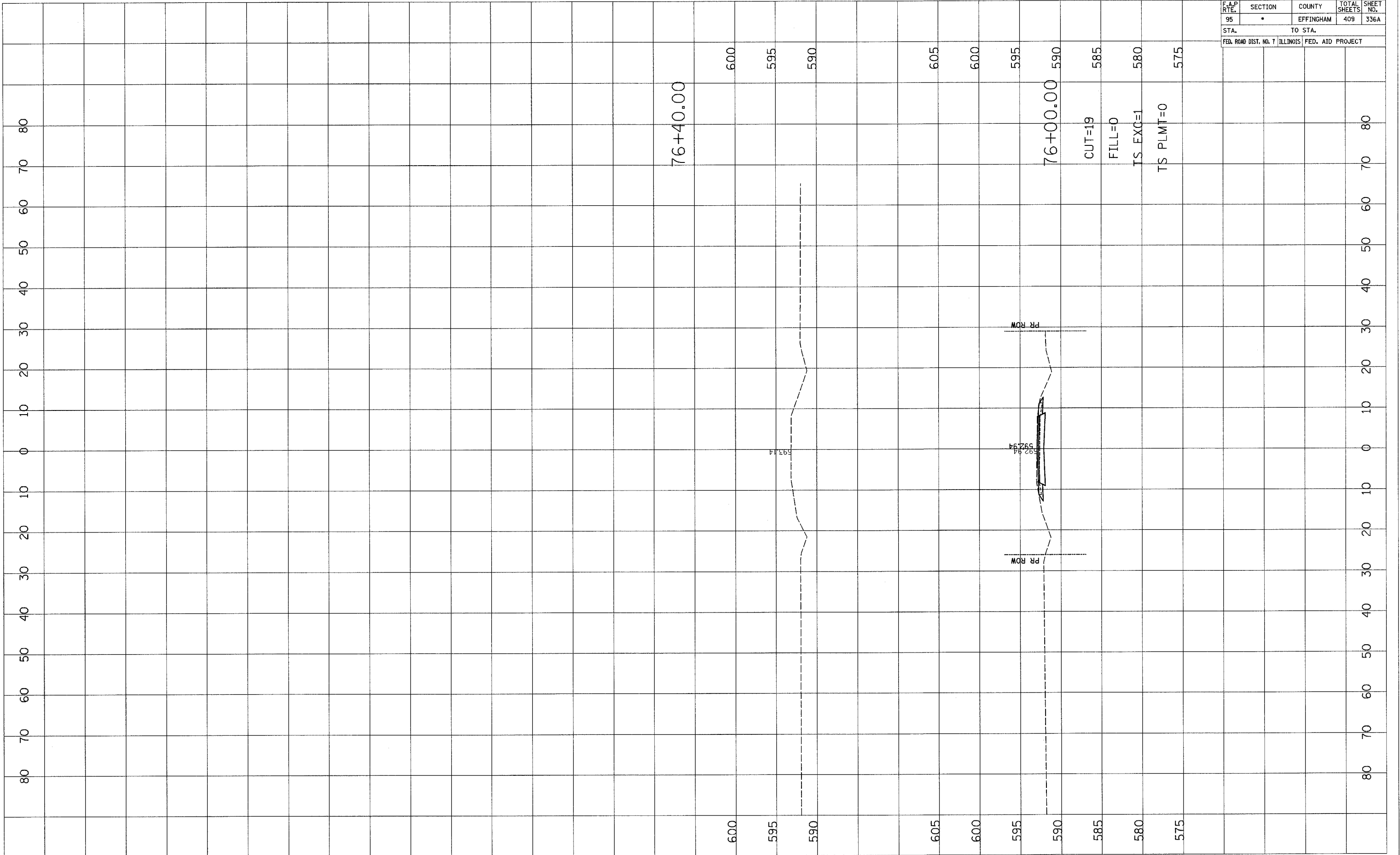
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NOTE BOOK	PLOTTED	BY
NO.	DATE	
	AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	336A
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

BY	DATE

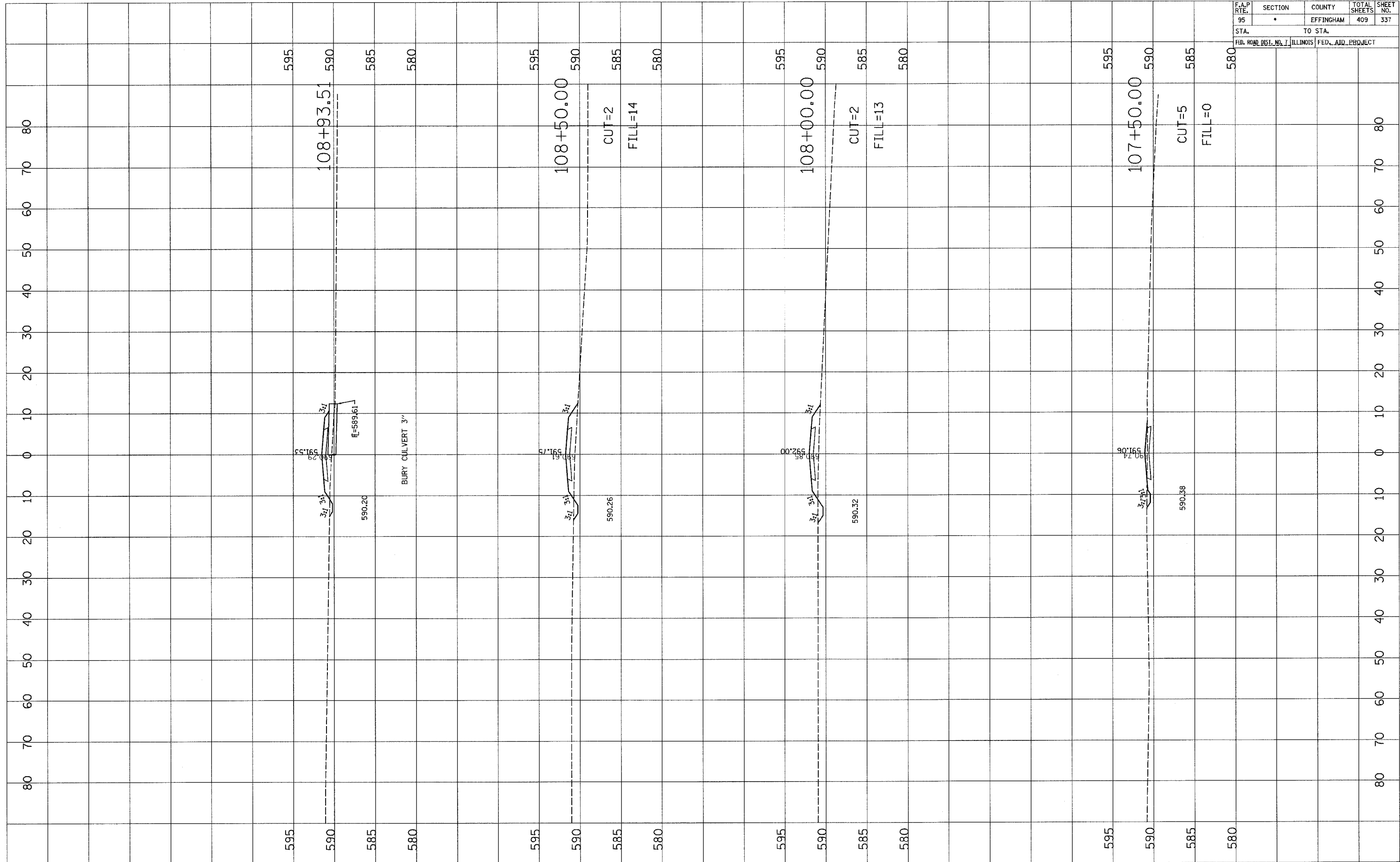
BY	DATE



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STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

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BY _____	_____
SURVEYED	DATE
NOTE BOOK	_____
TEMPLATE	_____
AREAS CHECKED	_____

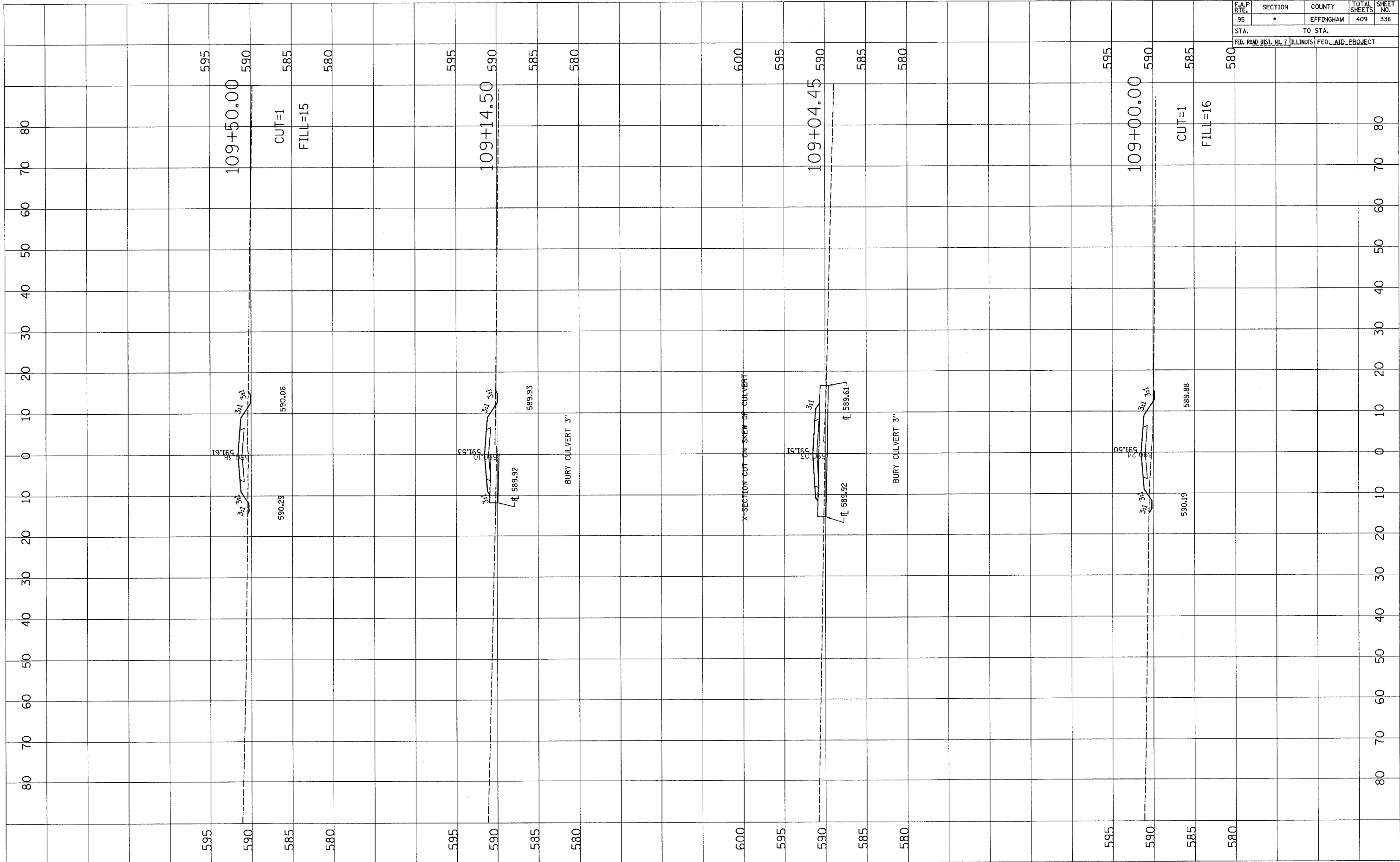
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BY _____	_____
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NOTE BOOK	_____
TEMPLATE	_____
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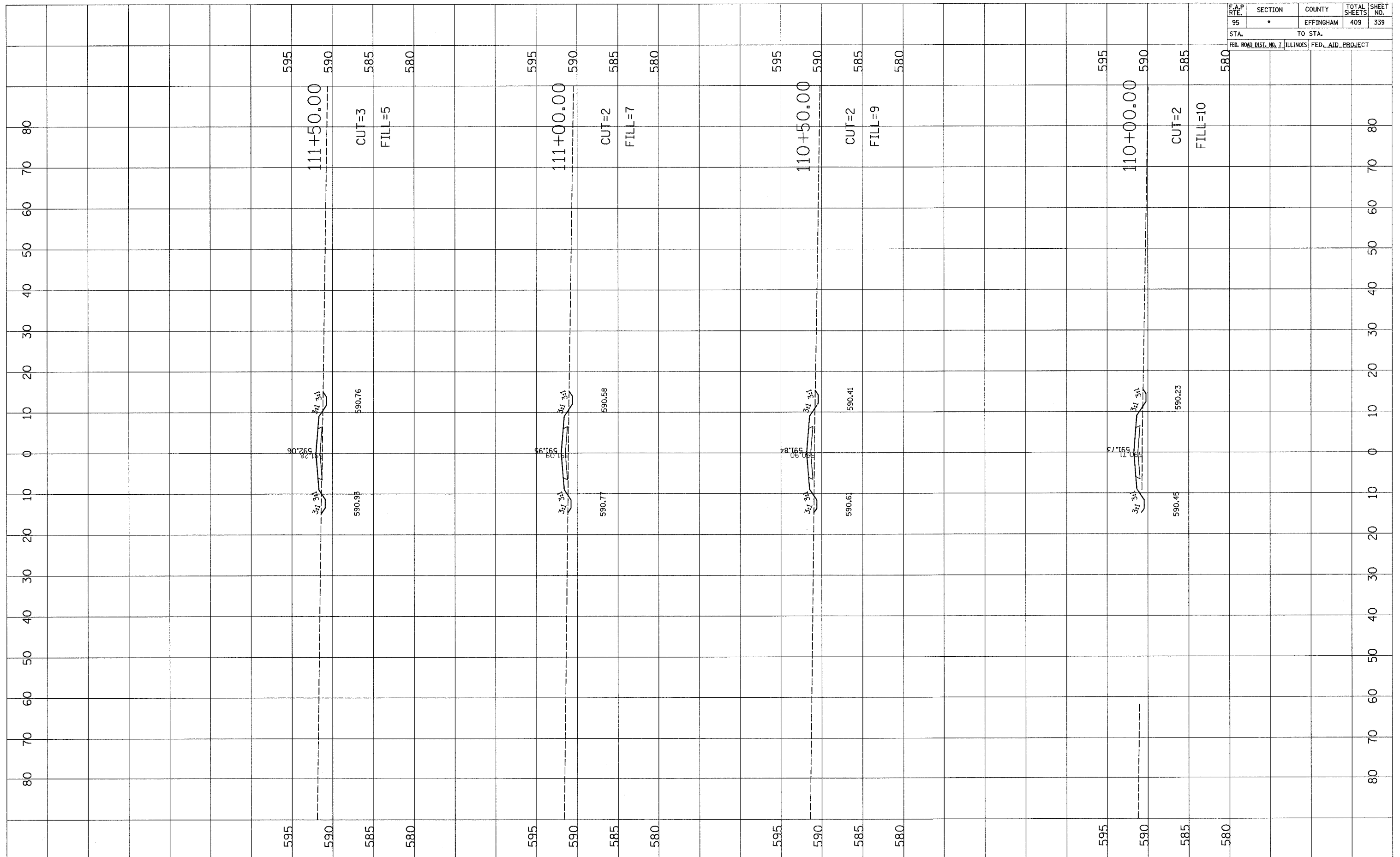
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95	•	EFFINGHAM	409	338
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
NO.	
SURVEYED	BY
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
NO.	
SURVEYED	BY
TEMPLATE	
AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	339
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID. PROJECT		



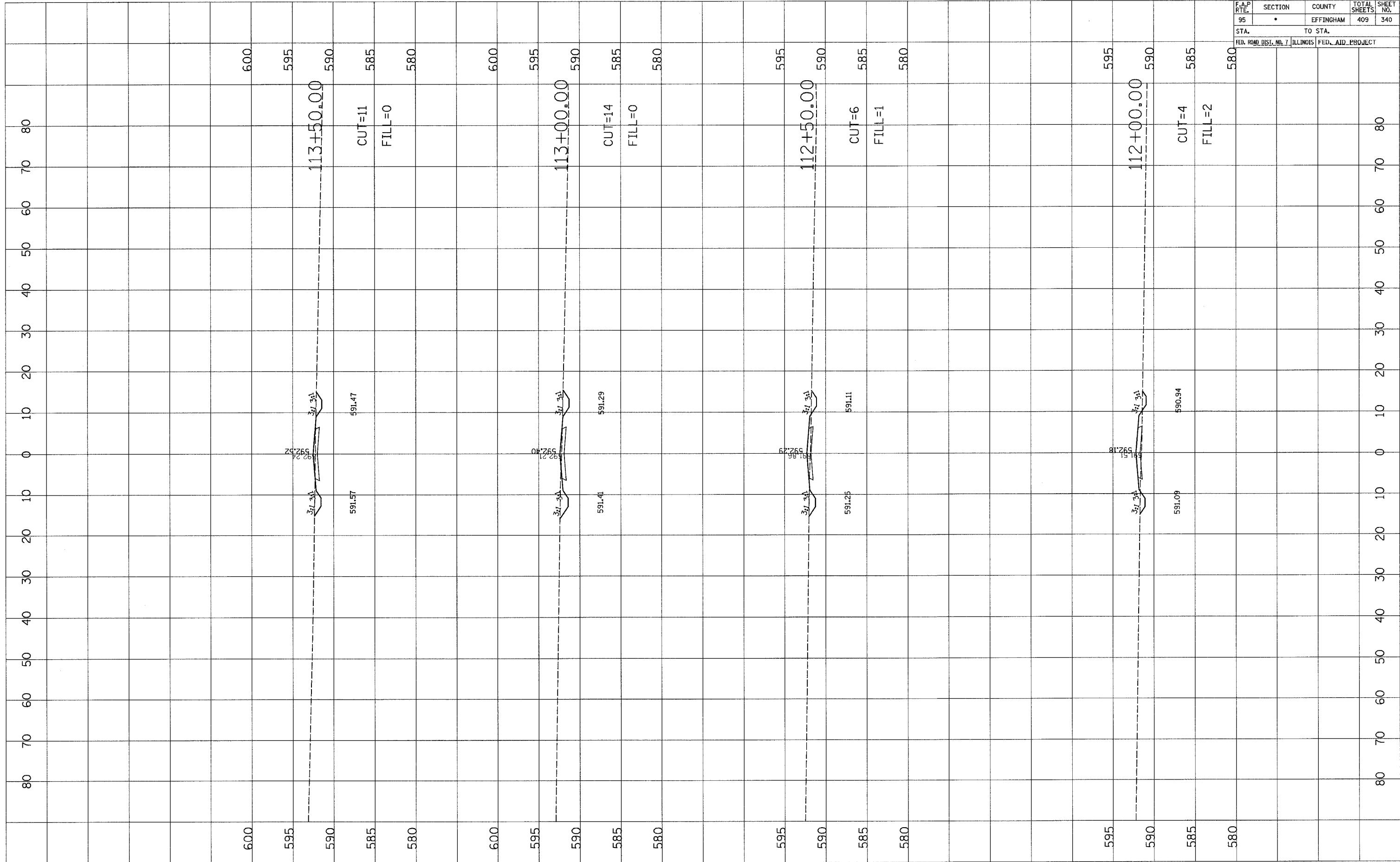
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SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	340
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
SURVEYED BY	
NOTE BOOK NO.	
AREAS CHECKED	

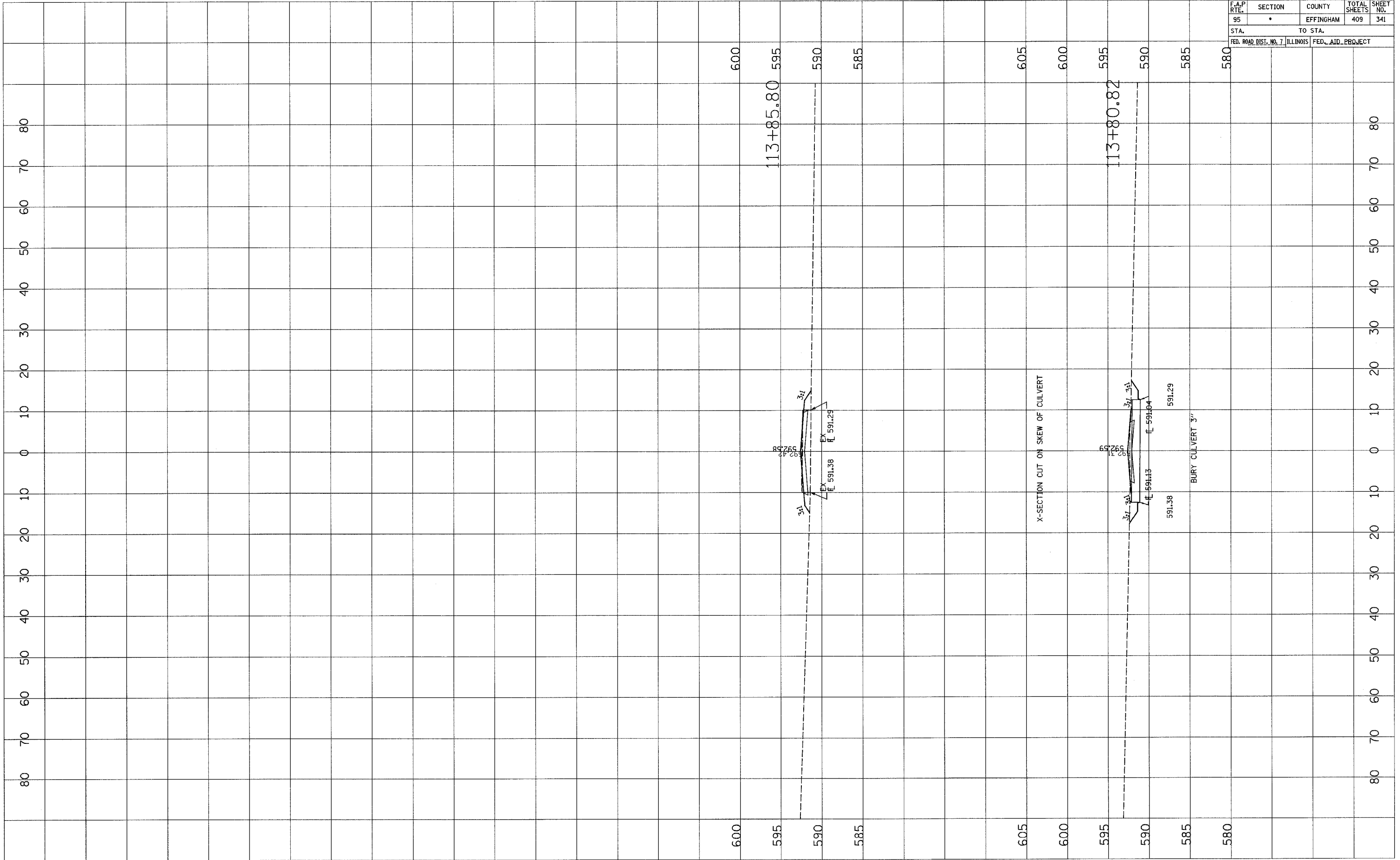
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SURVEYED BY	
NOTE BOOK NO.	
AREAS CHECKED	



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95	*	EFFINGHAM	409	341
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		
		FED. AID. PROJECT		

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

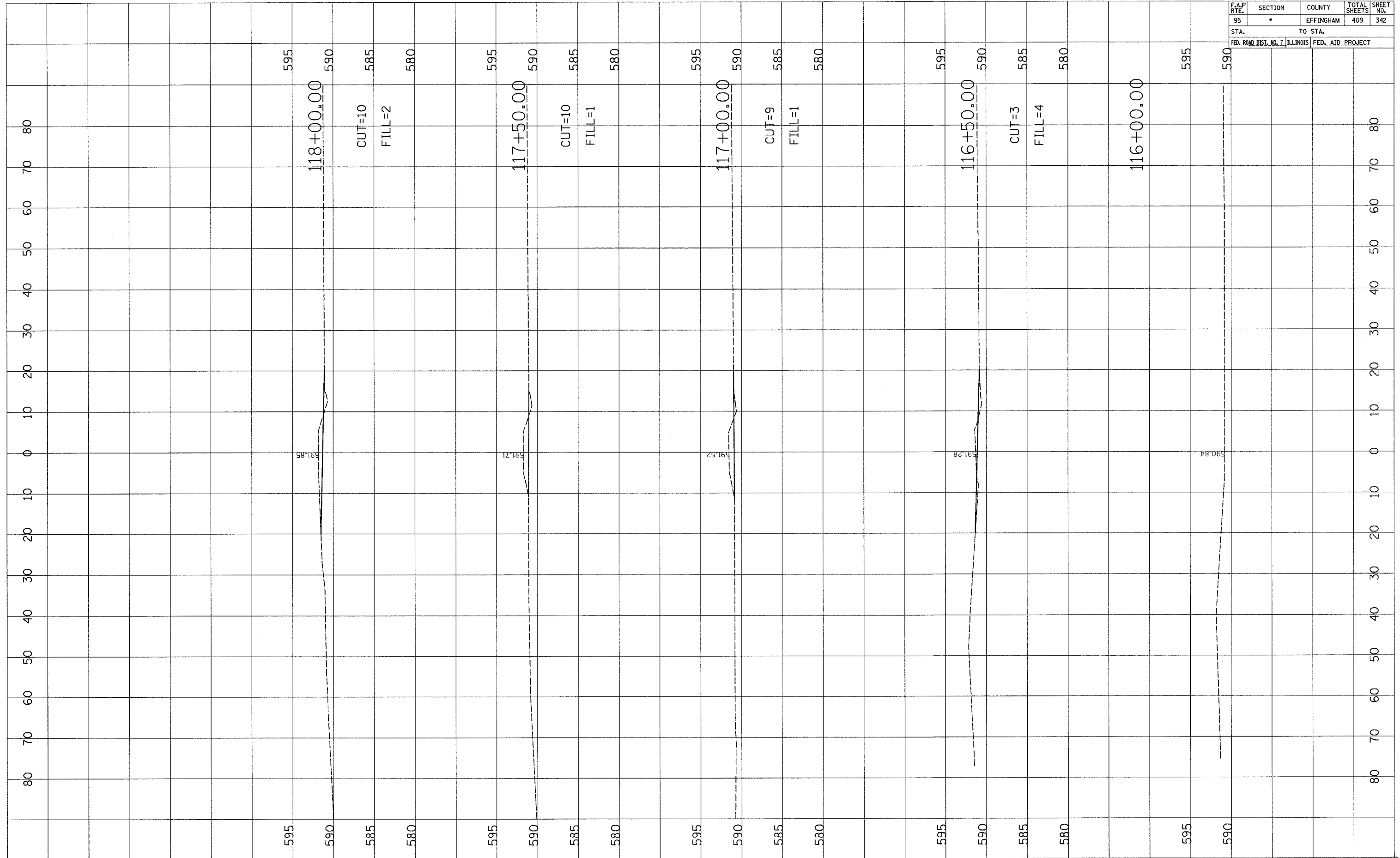
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NOTE BOOK NO.	PLOTTED		
	DATE		
	AREAS CHECKED		



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

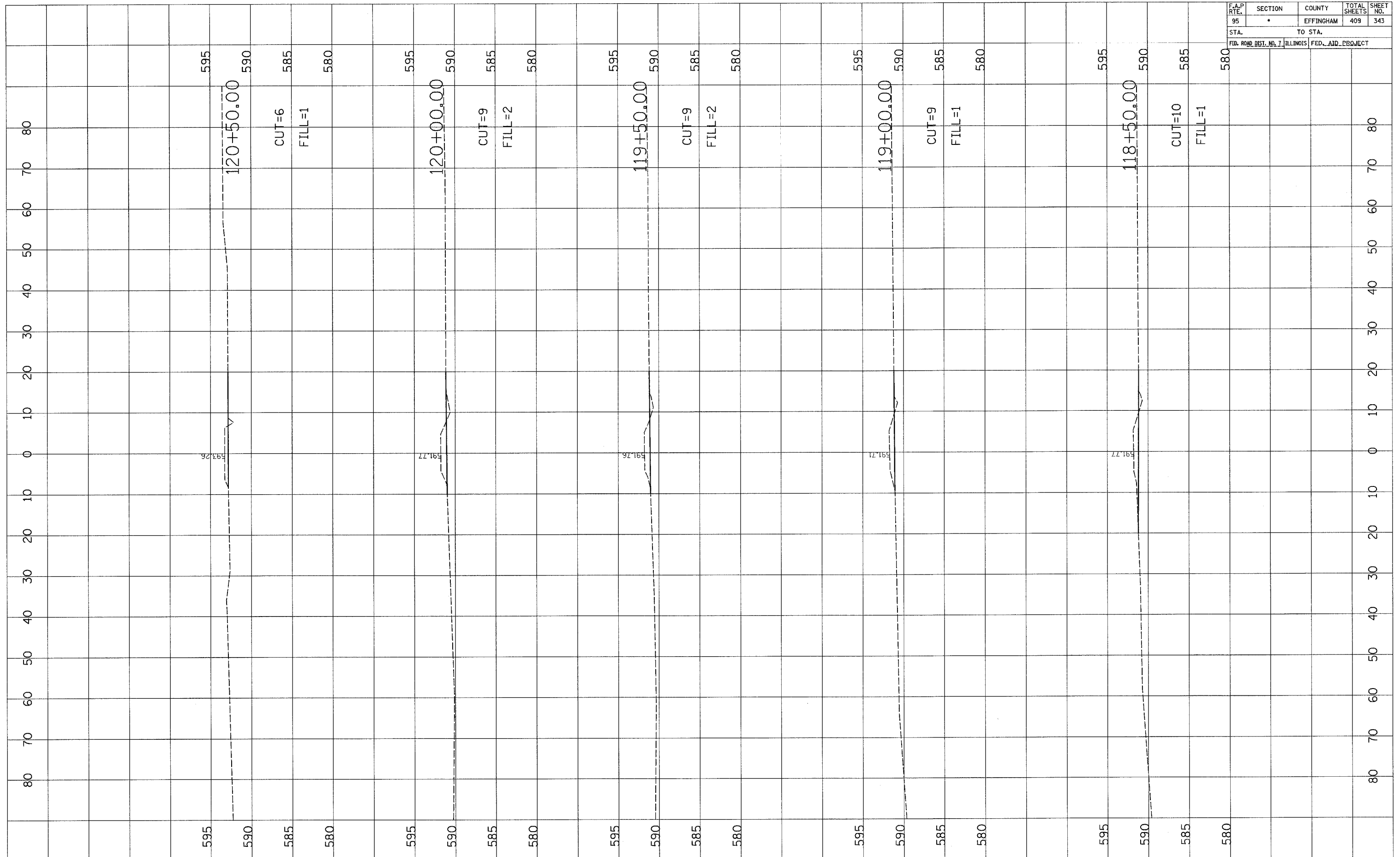
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NOTE BOOK NO.	PLOTTED		
	IN SCALE		
	AREAS CHECKED		

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NOTE BOOK NO.	PLOTTED		
	IN SCALE		
	AREAS CHECKED		





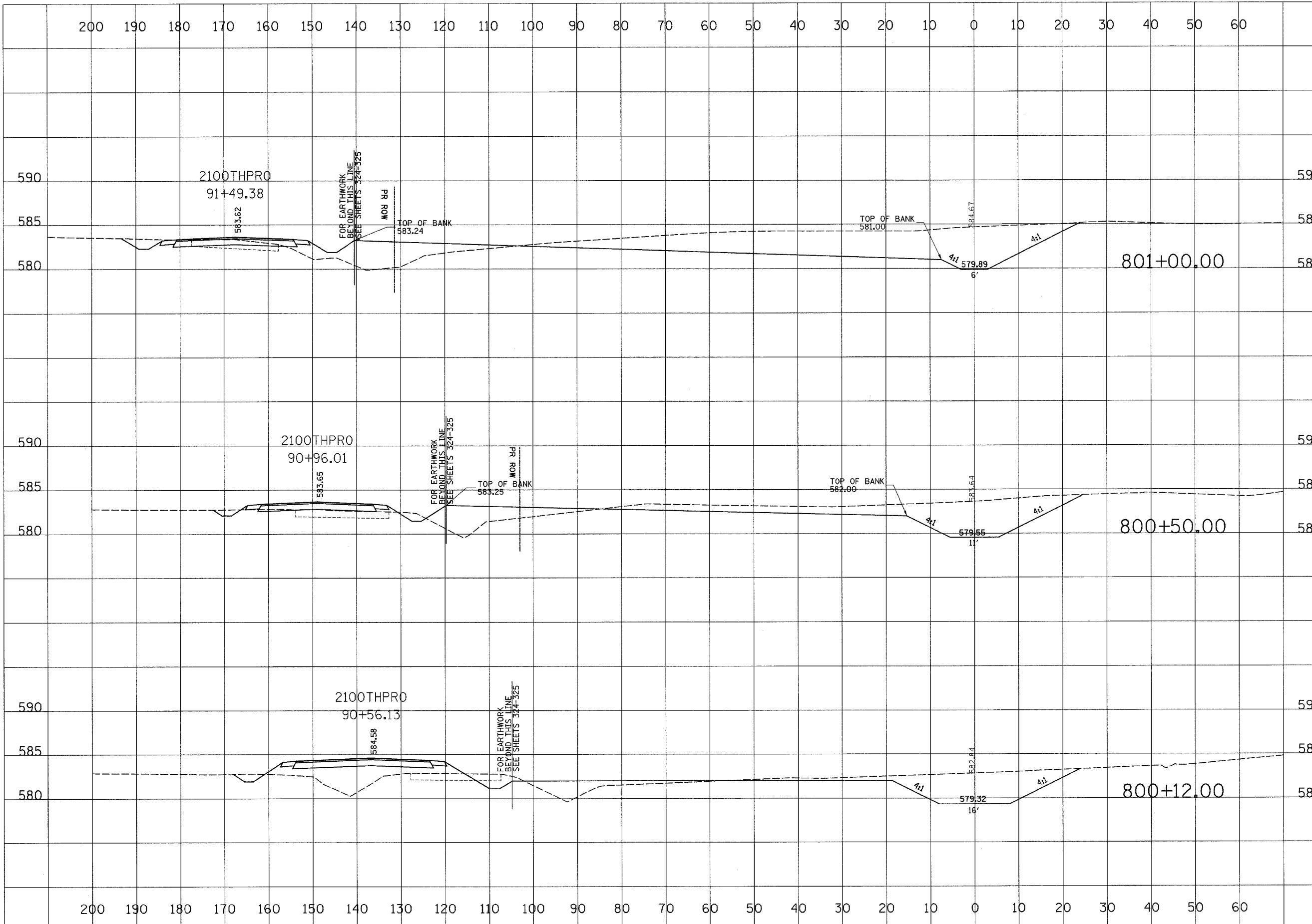
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95	•	EFFINGHAM	409	343
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
AREAS CHECKED	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	344
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
*(6,7)Y, RS-1, 6B-1, 7B-1, 7B-2				
END AREAS (SQ. FT.)				
CUT		FILL		

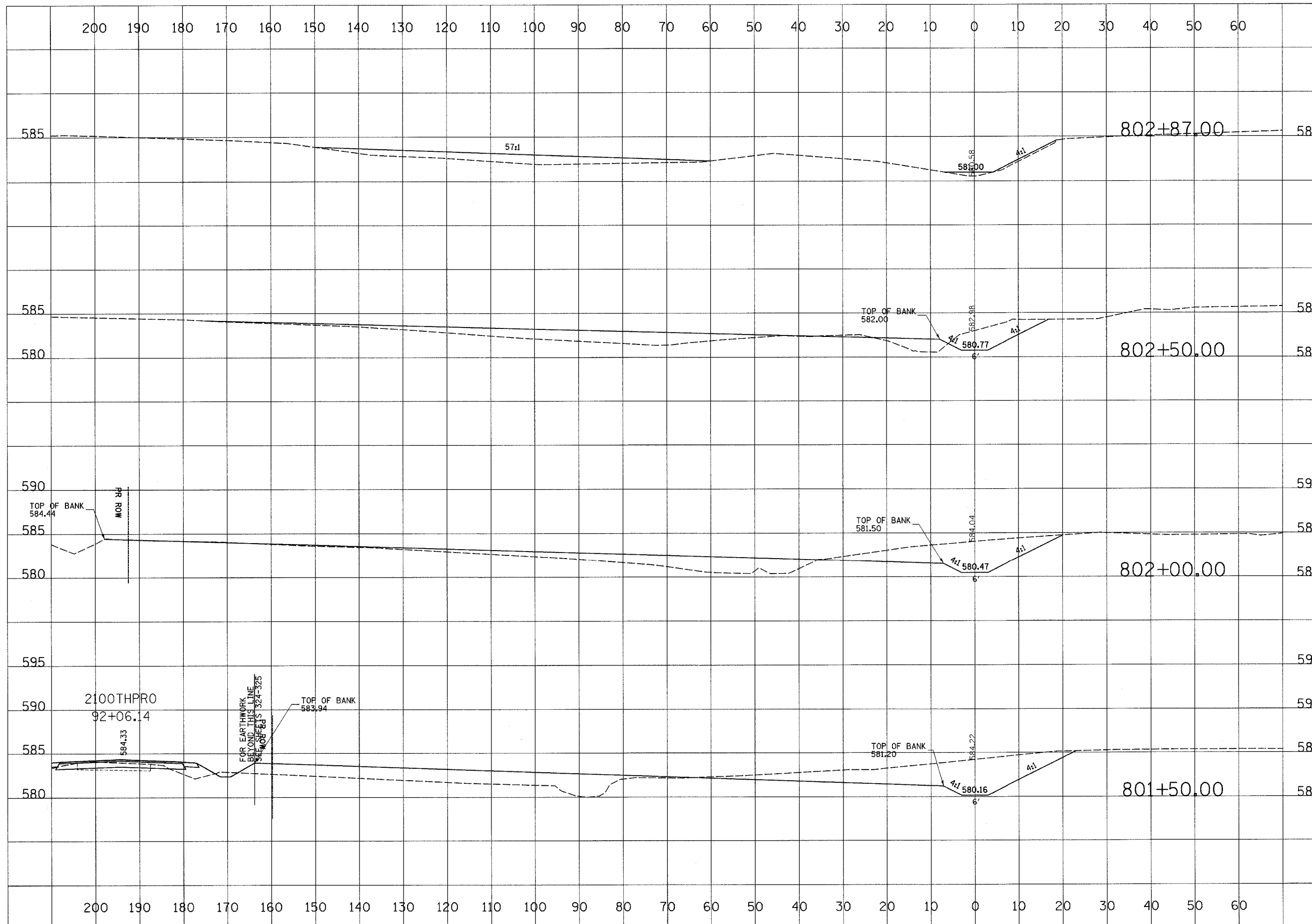


STATION	CUT (SQ. FT.)	FILL (SQ. FT.)
801+00.00	293	58
800+50.00	167	49
800+12.00	118	30

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	345
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
* (6.7)Y, RS-1, 6B-1, 7B-1, 7B-2				
END AREAS (SQ. FT.)				
CUT			FILL	



585	0	64
585	40	104
590	99	92
590	150	129

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

Benchmark: Chisled "□" on 6" Barrier Curb east of Big Salt Creek Bridge. Approximately 41' west of the east end of the left Bridge Guardrail. Elev. 540.23

Existing Structure: Structure Number 025-0035 was built in 1925 as SBI Route 33, Section 7B Sta. 146+63.50. The superstructure was replaced and substructure was widened in 1976 as Section 7B. The existing structure is 33'-0" out-to-out of deck, 129'-0" back-to-back of abutments. It has 21" precast prestressed concrete deck beams with closed abutments on timber piling. One lane of traffic shall be maintained at all times using staged construction. No salvage.

F.A.P. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	346

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT  
CONTRACT NO. 94356

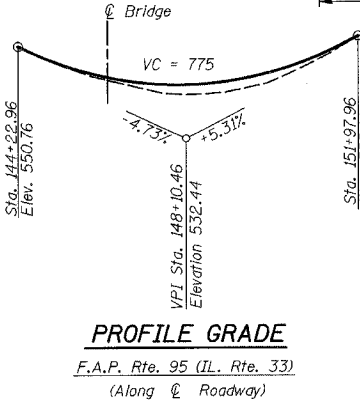
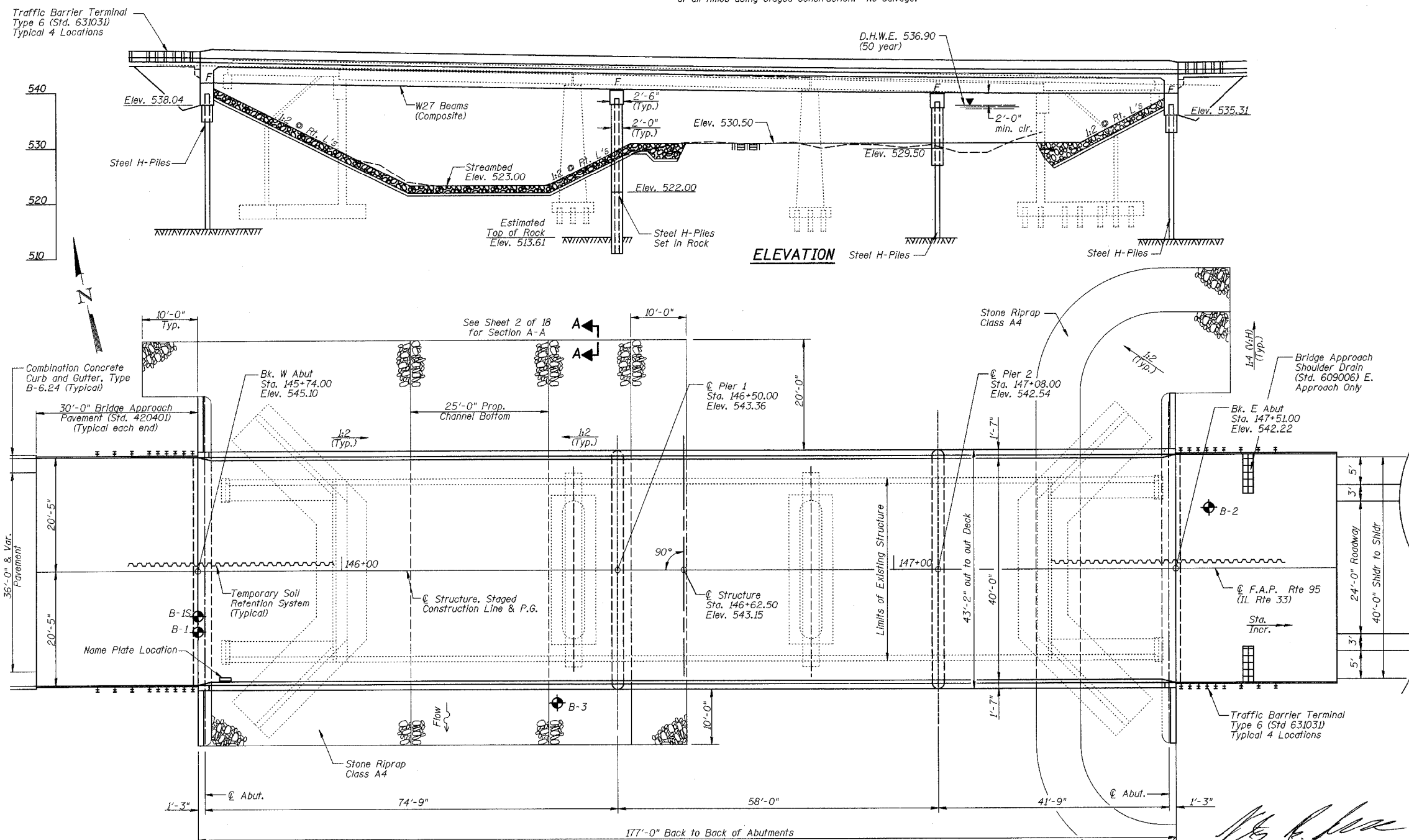
SHEET NO. 1  
SHEETS 1B

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		1032	1032
Filter Fabric	Sq Yd		1032	1032
Removal of Existing Structure, No. 1	Each			1
Structure Excavation	Cu Yd		348	348
Bridge Deck Grooving	Sq Yd	748		748
Concrete Structures	Cu Yd		125.6	125.6
Concrete Superstructure	Cu Yd	249.9		249.9
Furnishing and Erecting Structural Steel	L Sum		1	1
Stud Shear Connectors	Each	3384		3384
Porous Granular Embankment (Special)	Cu Yd		154	154
Reinforcement Bars, Epoxy Coated	Pound	60850		72400
Furnishing Steel Piles HP 10x57	Foot		416	416
Furnishing Steel Piles HP 12x74	Foot		248	248
Driving Piles	Foot		416	416
Test Pile Steel HP 10x57	Each		2	2
Name Plates	Each	1		1
Bar Splicers	Each	604	156	760
Underwater Structure Excavation Protection Location 1	Each		1	1
Setting Piles in Rock	Each		8	8
Temporary Soil Retention System	Sq Ft		628	628
Anchor Bolts, 1"	Each		48	48
Pipe Underdrain for Structure, 4"	Foot		190	190
Geo Composite Wall Drain	Sq Yd		80	80

**GENERAL NOTES**

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Bolts 3/4", holes 13/16", unless otherwise noted.
- Calculated weight of Structural Steel = 159,770 lbs.
- All structural steel shall be AASHTO M 270 Grade 50W.
- All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
- The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions
- No field welding is permitted except as specified in the contract documents.
- Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8". Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
- The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations of substructures specified or approved by the Engineer before ordering the remainder of piles.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Reinforcement bars designated (E) shall be epoxy coated.

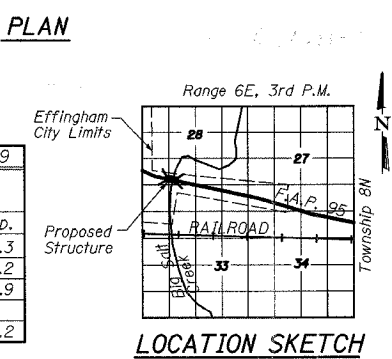


**WATERWAY INFORMATION**

Drainage Area = 34.97 sq.mil. Low Grade Elev. = 542.13 @ Sta. 147+88.09

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E. Ft.		Head-Ft.		Headwater Elev. - Ft.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	3089	856	985	535.1	0.3	0.2	535.4	535.3	
Base	50	4631	1067	1260	536.9	0.5	0.3	537.4	537.2	
Overtopping	100	5274	1142	1361	537.5	0.5	0.4	538.0	537.9	
Max. Calc.	500	6793	1294	1569	538.8	0.6	0.4	539.4	539.2	

Maximum Highwater Elevation Unknown



**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Adams  
ENGINEER OF BRIDGES AND STRUCTURES  
**DESIGN SPECIFICATIONS**  
2002 AASHTO  
**LOADING HS-20-44**  
Allow 50#/sq. ft. for future wearing surface.

Peter B. Bayles, P.E., S.E.  
Structural Engineer License No. 081-006042  
Expiration Date: 11/30/2008

**SEISMIC DATA**  
Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.075g  
Site Coefficient (S) = 1.0

**DESIGN STRESSES**  
FIELD UNITS  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (Reinforcement)  
f<sub>y</sub> = 50,000 psi (Str. Steel-M270 Gr. 50W)

STATION 146+62.50  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. RTE. 95 SECTION 7B-1  
LOADING HS20  
STR. NO. 025-0101

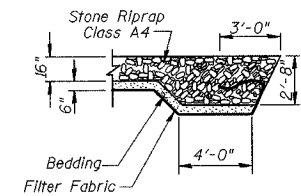
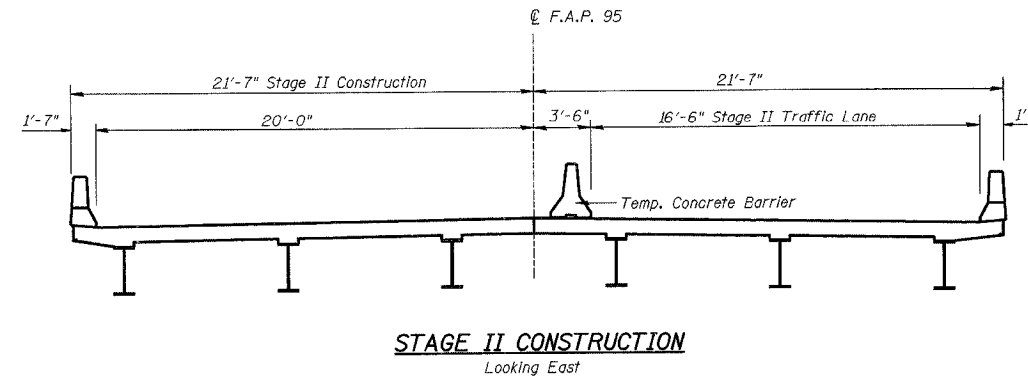
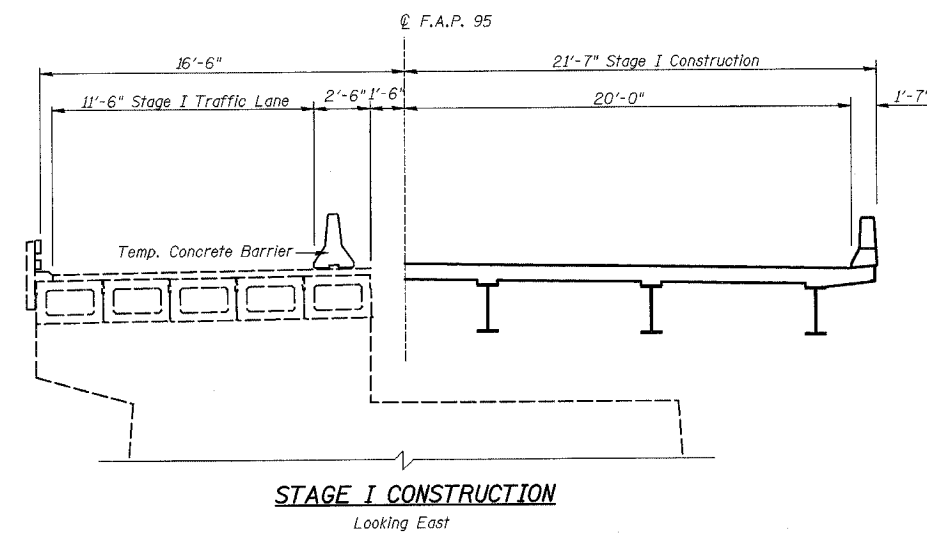
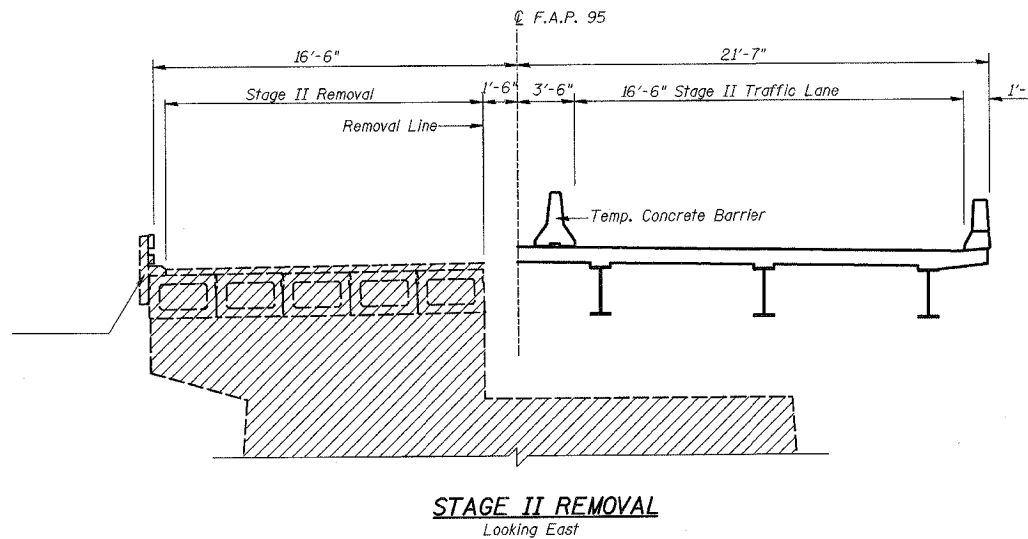
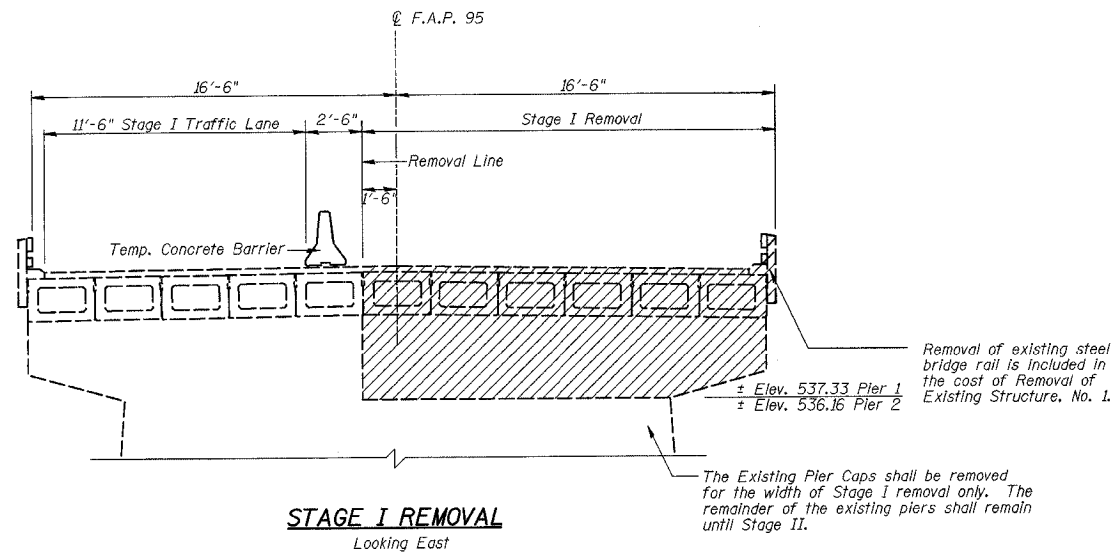
**NAME PLATE**  
See Std. 515001

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GENERAL PLAN**  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

DATE: OCT. 2003  
DRAWN BY: MLO/NW  
CHECKED BY: PBB/SJK

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	347
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 94356				

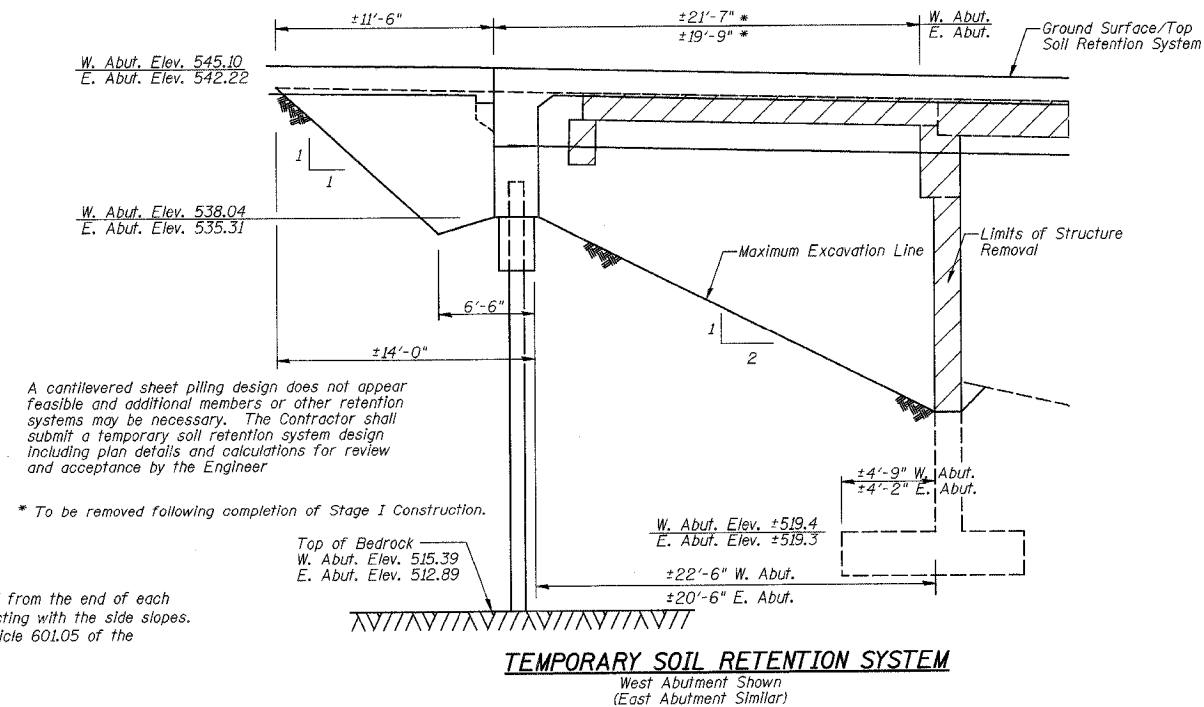
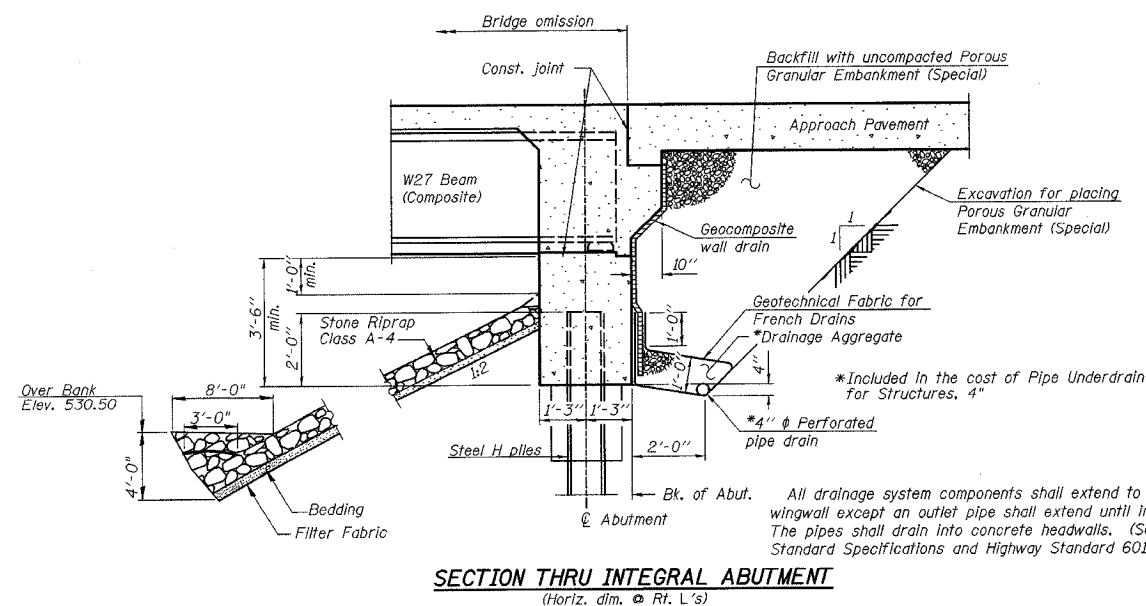
SHEET NO. 2  
SHEETS 18



**Notes:**  
Hatched areas indicate "Removal of Existing Structure No. 1".  
See Sheet 3 of 18 for details of Temporary Concrete Barrier.  
See Roadway plans for quantity of Temporary Concrete Barrier.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq Ft	640



A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

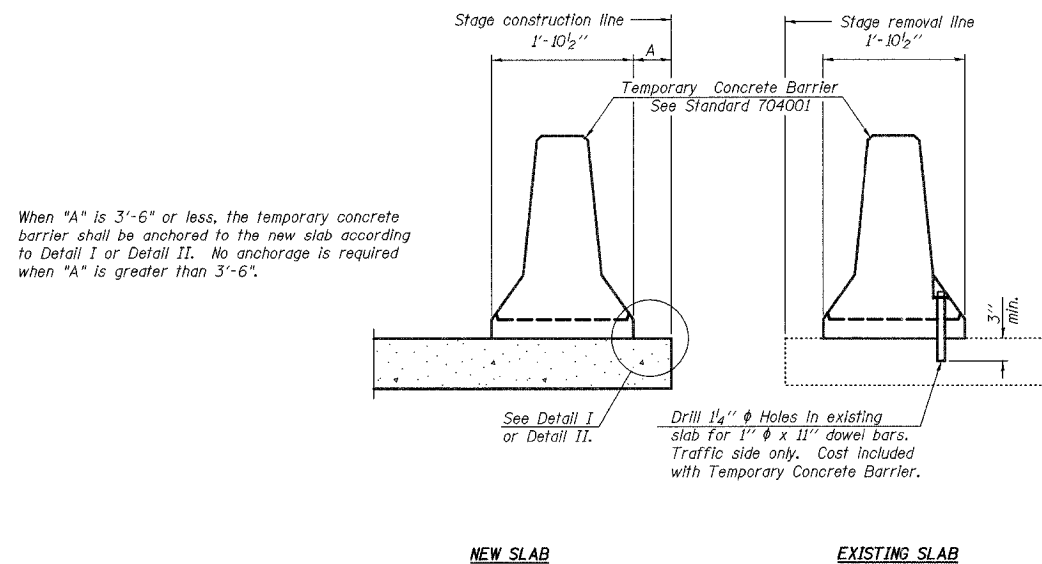
\* To be removed following completion of Stage I Construction.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
STAGE CONSTRUCTION  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

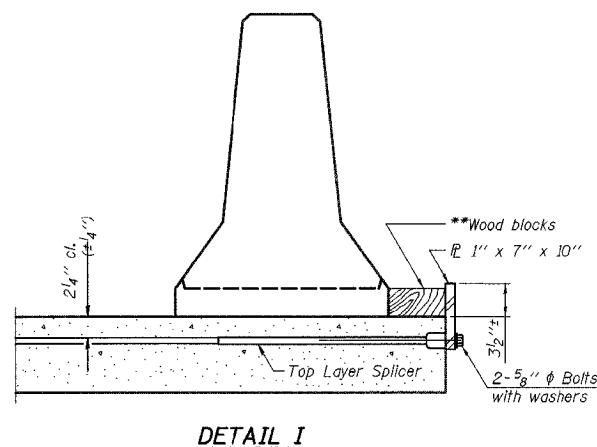
F.A.P. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	348
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 3  
SHEETS 18

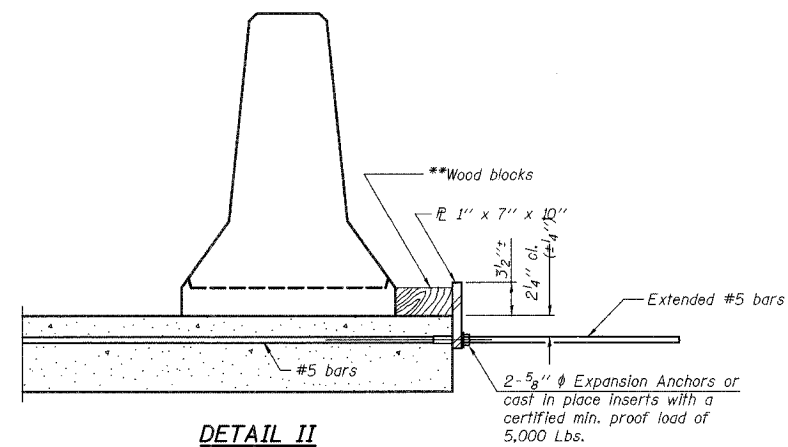
CONTRACT NO. 94356



**SECTIONS THRU SLAB**



**DETAIL I**



**DETAIL II**

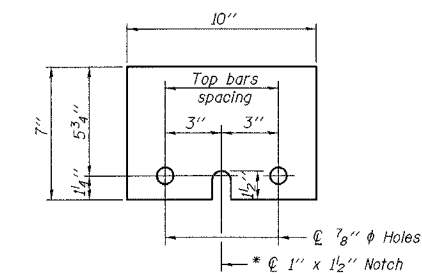
\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

**NOTES**

Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the concrete slab with 2-5/8"  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.



**STEEL RETAINER  $\bar{P}$  1" x 7" x 10"**  
\* Required only with Detail II

R-27 11-1-06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TEMPORARY CONCRETE BARRIER  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

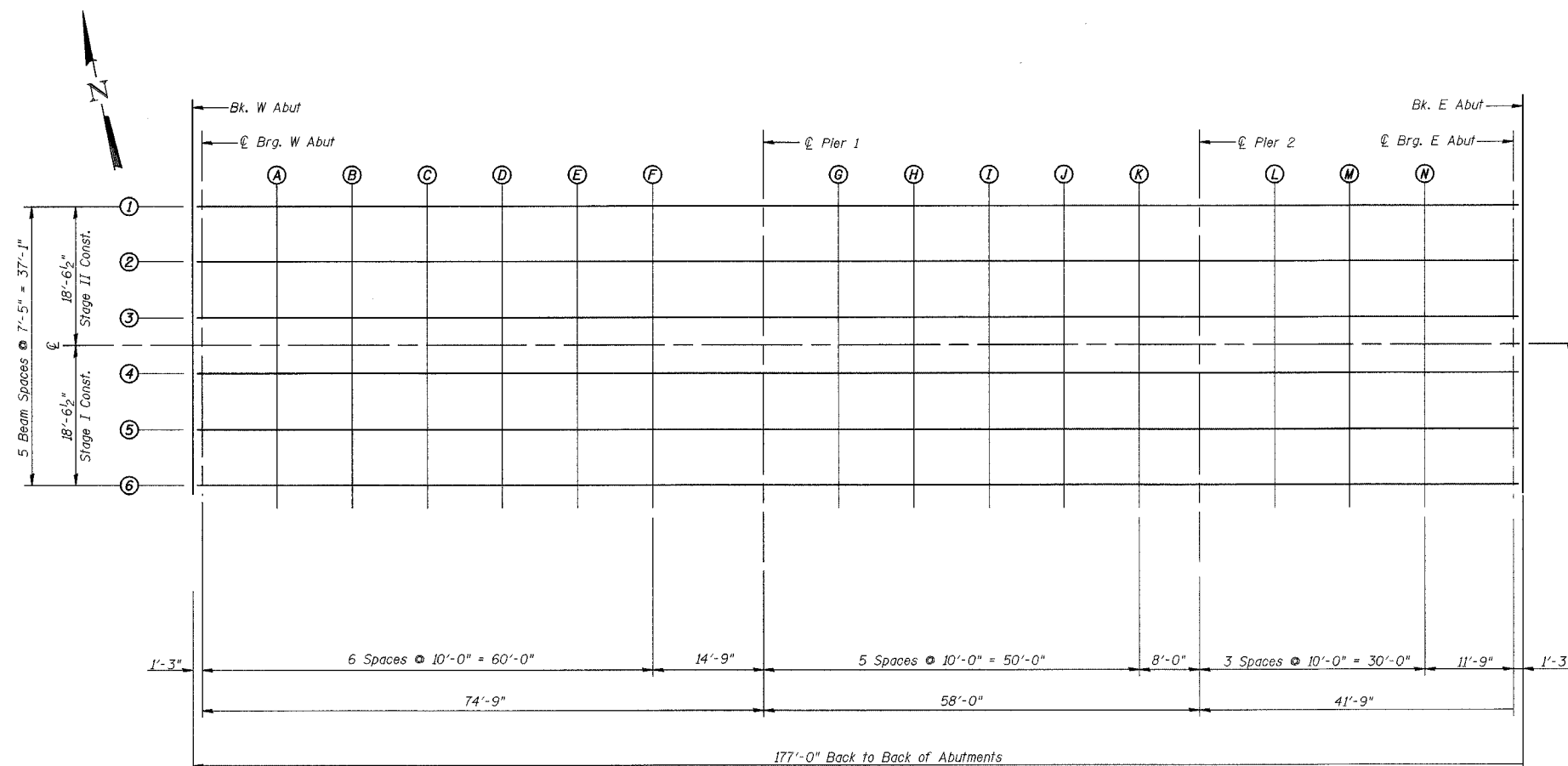
DATE: OCT. 2003

DRAWN BY: NJV  
CHECKED BY: PBB/SJK

F.A.P. R/L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
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FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

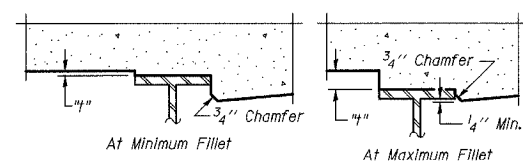
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SHEETS 18

CONTRACT NO. 94356



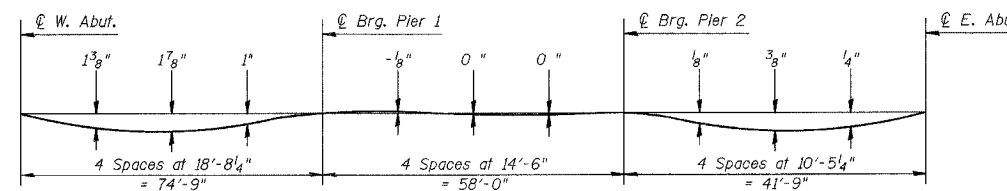
℄ F.A.P. Rte 95  
(IL Rte 33), P.G.L. and  
Stage Construction Line

**PLAN**



To determine "1": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet 5 of 18, minus slab thickness, equals the fillet heights "1" above top flange of beams.

**FILLET HEIGHTS**



**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only)

Note: The above deflections are not for use in the field if the Engineer is working from the Theoretical Grade Elevations Adjusted for Dead Load Deflections as shown on sheet 5 of 18.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TOP OF SLAB ELEVATIONS (1 of 2)  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

DATE: OCT. 2003

DRAWN BY: MLO/NUJ  
CHECKED BY: PBB/SJK

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	145+74.00	18.54' Lt.	544.77	544.76
⊕ Brg. W. Abut.	145+75.25	18.54' Lt.	544.74	544.74
A	145+85.25	18.54' Lt.	544.47	544.54
B	145+95.25	18.54' Lt.	544.21	544.33
C	146+05.25	18.54' Lt.	543.97	544.12
D	146+15.25	18.54' Lt.	543.74	543.89
E	146+25.25	18.54' Lt.	543.52	543.64
F	146+35.25	18.54' Lt.	543.32	543.39
⊕ PIER 1	146+50.00	18.54' Lt.	543.04	543.04
G	146+60.00	18.54' Lt.	542.87	542.86
H	146+70.00	18.54' Lt.	542.71	542.70
I	146+80.00	18.54' Lt.	542.56	542.56
J	146+90.00	18.54' Lt.	542.43	542.43
K	147+00.00	18.54' Lt.	542.31	542.31
⊕ PIER 2	147+08.00	18.54' Lt.	542.22	542.22
L	147+18.00	18.54' Lt.	542.12	542.13
M	147+28.00	18.54' Lt.	542.04	542.07
N	147+38.00	18.54' Lt.	541.97	541.99
⊕ Brg. E. Abut.	147+49.75	18.54' Lt.	541.90	541.90
Bk. E. Abut.	147+51.00	18.54' Lt.	541.90	541.90

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	145+74.00	11.13' Lt.	544.92	544.91
⊕ Brg. W. Abut.	145+75.25	11.13' Lt.	544.89	544.89
A	145+85.25	11.13' Lt.	544.62	544.69
B	145+95.25	11.13' Lt.	544.36	544.48
C	146+05.25	11.13' Lt.	544.12	544.27
D	146+15.25	11.13' Lt.	543.89	544.04
E	146+25.25	11.13' Lt.	543.67	543.79
F	146+35.25	11.13' Lt.	543.47	543.54
⊕ PIER 1	146+50.00	11.13' Lt.	543.19	543.19
G	146+60.00	11.13' Lt.	543.02	543.01
H	146+70.00	11.13' Lt.	542.86	542.85
I	146+80.00	11.13' Lt.	542.71	542.71
J	146+90.00	11.13' Lt.	542.58	542.58
K	147+00.00	11.13' Lt.	542.46	542.46
⊕ PIER 2	147+08.00	11.13' Lt.	542.37	542.37
L	147+18.00	11.13' Lt.	542.27	542.28
M	147+28.00	11.13' Lt.	542.19	542.22
N	147+38.00	11.13' Lt.	542.12	542.14
⊕ Brg. E. Abut.	147+49.75	11.13' Lt.	542.05	542.05
Bk. E. Abut.	147+51.00	11.13' Lt.	542.04	542.04

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	145+74.00	3.71' Lt.	545.04	545.03
⊕ Brg. W. Abut.	145+75.25	3.71' Lt.	545.00	545.00
A	145+85.25	3.71' Lt.	544.73	544.80
B	145+95.25	3.71' Lt.	544.48	544.60
C	146+05.25	3.71' Lt.	544.24	544.39
D	146+15.25	3.71' Lt.	544.01	544.16
E	146+25.25	3.71' Lt.	543.79	543.91
F	146+35.25	3.71' Lt.	543.58	543.65
⊕ PIER 1	146+50.00	3.71' Lt.	543.31	543.31
G	146+60.00	3.71' Lt.	543.13	543.12
H	146+70.00	3.71' Lt.	542.97	542.96
I	146+80.00	3.71' Lt.	542.83	542.83
J	146+90.00	3.71' Lt.	542.69	542.69
K	147+00.00	3.71' Lt.	542.57	542.57
⊕ PIER 2	147+08.00	3.71' Lt.	542.49	542.49
L	147+18.00	3.71' Lt.	542.39	542.40
M	147+28.00	3.71' Lt.	542.31	542.34
N	147+38.00	3.71' Lt.	542.23	542.25
⊕ Brg. E. Abut.	147+49.75	3.71' Lt.	542.17	542.17
Bk. E. Abut.	147+51.00	3.71' Lt.	542.16	542.16

**⊕ ROADWAY. PROFILE GRADE & STAGED CONST. JT.**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	145+74.00	0.00' Lt.	545.10	545.09
⊕ Brg. W. Abut.	145+75.25	0.00' Lt.	545.06	545.06
A	145+85.25	0.00' Lt.	544.79	544.86
B	145+95.25	0.00' Lt.	544.54	544.66
C	146+05.25	0.00' Lt.	544.29	544.44
D	146+15.25	0.00' Lt.	544.06	544.21
E	146+25.25	0.00' Lt.	543.85	543.97
F	146+35.25	0.00' Lt.	543.64	543.71
⊕ PIER 1	146+50.00	0.00' Lt.	543.36	543.36
G	146+60.00	0.00' Lt.	543.19	543.18
H	146+70.00	0.00' Lt.	543.03	543.02
I	146+80.00	0.00' Lt.	542.89	542.89
J	146+90.00	0.00' Lt.	542.75	542.75
K	147+00.00	0.00' Lt.	542.63	542.63
⊕ PIER 2	147+08.00	0.00' Lt.	542.54	542.54
L	147+18.00	0.00' Lt.	542.45	542.46
M	147+28.00	0.00' Lt.	542.36	542.39
N	147+38.00	0.00' Lt.	542.29	542.31
⊕ Brg. E. Abut.	147+49.75	0.00' Lt.	542.22	542.22
Bk. E. Abut.	147+51.00	0.00' Lt.	542.22	542.22

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	145+74.00	3.71' Rt.	545.04	545.03
⊕ Brg. W. Abut.	145+75.25	3.71' Rt.	545.00	545.00
A	145+85.25	3.71' Rt.	544.73	544.80
B	145+95.25	3.71' Rt.	544.48	544.60
C	146+05.25	3.71' Rt.	544.24	544.39
D	146+15.25	3.71' Rt.	544.01	544.16
E	146+25.25	3.71' Rt.	543.79	543.91
F	146+35.25	3.71' Rt.	543.58	543.65
⊕ PIER 1	146+50.00	3.71' Rt.	543.31	543.31
G	146+60.00	3.71' Rt.	543.13	543.12
H	146+70.00	3.71' Rt.	542.97	542.96
I	146+80.00	3.71' Rt.	542.83	542.83
J	146+90.00	3.71' Rt.	542.69	542.69
K	147+00.00	3.71' Rt.	542.57	542.57
⊕ PIER 2	147+08.00	3.71' Rt.	542.49	542.49
L	147+18.00	3.71' Rt.	542.39	542.40
M	147+28.00	3.71' Rt.	542.31	542.34
N	147+38.00	3.71' Rt.	542.23	542.25
⊕ Brg. E. Abut.	147+49.75	3.71' Rt.	542.17	542.17
Bk. E. Abut.	147+51.00	3.71' Rt.	542.16	542.16

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	145+74.00	11.13' Rt.	544.92	544.91
⊕ Brg. W. Abut.	145+75.25	11.13' Rt.	544.89	544.89
A	145+85.25	11.13' Rt.	544.62	544.69
B	145+95.25	11.13' Rt.	544.36	544.48
C	146+05.25	11.13' Rt.	544.12	544.27
D	146+15.25	11.13' Rt.	543.89	544.04
E	146+25.25	11.13' Rt.	543.67	543.79
F	146+35.25	11.13' Rt.	543.47	543.54
⊕ PIER 1	146+50.00	11.13' Rt.	543.19	543.19
G	146+60.00	11.13' Rt.	543.02	543.01
H	146+70.00	11.13' Rt.	542.86	542.85
I	146+80.00	11.13' Rt.	542.71	542.71
J	146+90.00	11.13' Rt.	542.58	542.58
K	147+00.00	11.13' Rt.	542.46	542.46
⊕ PIER 2	147+08.00	11.13' Rt.	542.37	542.37
L	147+18.00	11.13' Rt.	542.27	542.28
M	147+28.00	11.13' Rt.	542.19	542.22
N	147+38.00	11.13' Rt.	542.12	542.14
⊕ Brg. E. Abut.	147+49.75	11.13' Rt.	542.05	542.05
Bk. E. Abut.	147+51.00	11.13' Rt.	542.04	542.04

**BEAM 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	145+74.00	18.54' Rt.	544.77	544.76
⊕ Brg. W. Abut.	145+75.25	18.54' Rt.	544.74	544.74
A	145+85.25	18.54' Rt.	544.47	544.54
B	145+95.25	18.54' Rt.	544.21	544.33
C	146+05.25	18.54' Rt.	543.97	544.12
D	146+15.25	18.54' Rt.	543.74	543.89
E	146+25.25	18.54' Rt.	543.52	543.64
F	146+35.25	18.54' Rt.	543.32	543.39
⊕ PIER 1	146+50.00	18.54' Rt.	543.04	543.04
G	146+60.00	18.54' Rt.	542.87	542.86
H	146+70.00	18.54' Rt.	542.71	542.70
I	146+80.00	18.54' Rt.	542.56	542.56
J	146+90.00	18.54' Rt.	542.43	542.43
K	147+00.00	18.54' Rt.	542.31	542.31
⊕ PIER 2	147+08.00	18.54' Rt.	542.22	542.22
L	147+18.00	18.54' Rt.	542.12	542.13
M	147+28.00	18.54' Rt.	542.04	542.07
N	147+38.00	18.54' Rt.	541.97	541.99
⊕ Brg. E. Abut.	147+49.75	18.54' Rt.	541.90	541.90
Bk. E. Abut.	147+51.00	18.54' Rt.	541.90	541.90

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TOP OF SLAB ELEVATIONS (2 of 2)  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

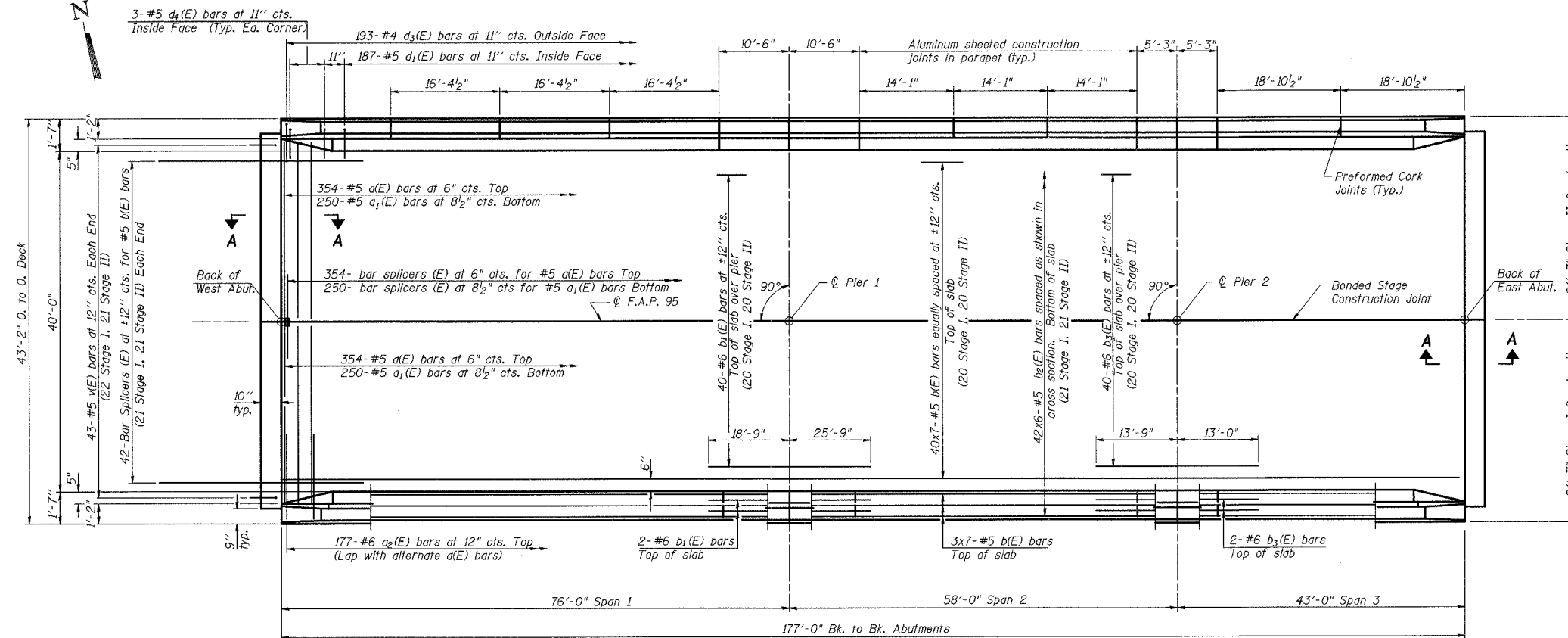
DATE: OCT. 2003

DRAWN BY: MLO/NJV  
CHECKED BY: PBB/SJK



F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	351
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 94356				

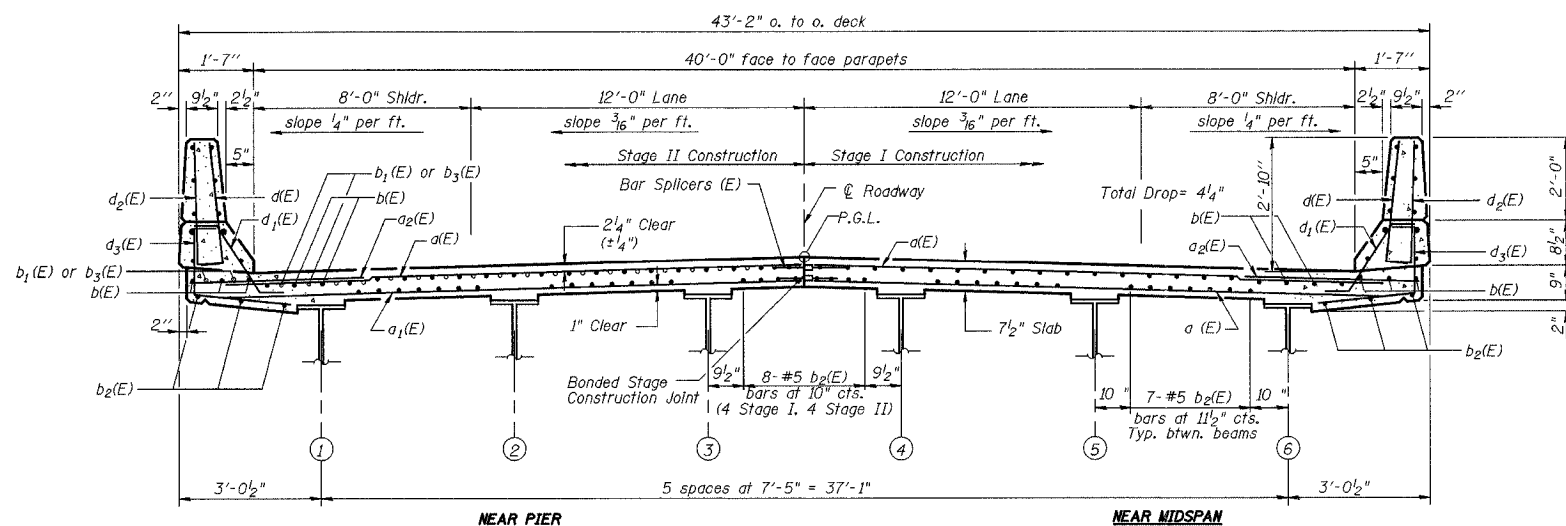
SHEET NO. 6  
SHEETS 18



PLAN

MIN BAR LAPS

#5 bar = 1'-8"  
#6 bar = 2'-0"



CROSS SECTION  
(Looking East)

Notes:  
See Sheet 7 of 18 for superstructure details and Bill of Material.  
Bars Indicated thus 40 x 7-#5 etc. indicates 40 lines of bars with 7 lengths per line.  
See Sheet 7 of 18 for parapet reinforcement and Section A-A.  
Work this sheet with Sheet 7 of 18.

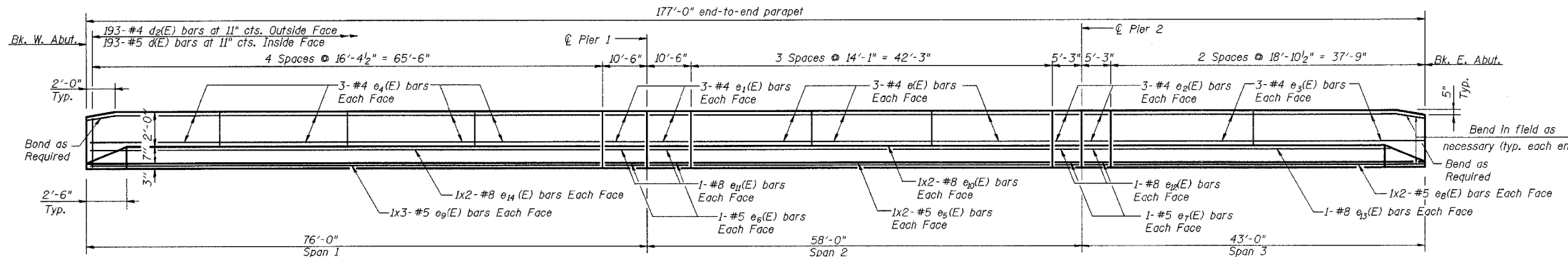
ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUPERSTRUCTURE  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

DATE: OCT. 2003

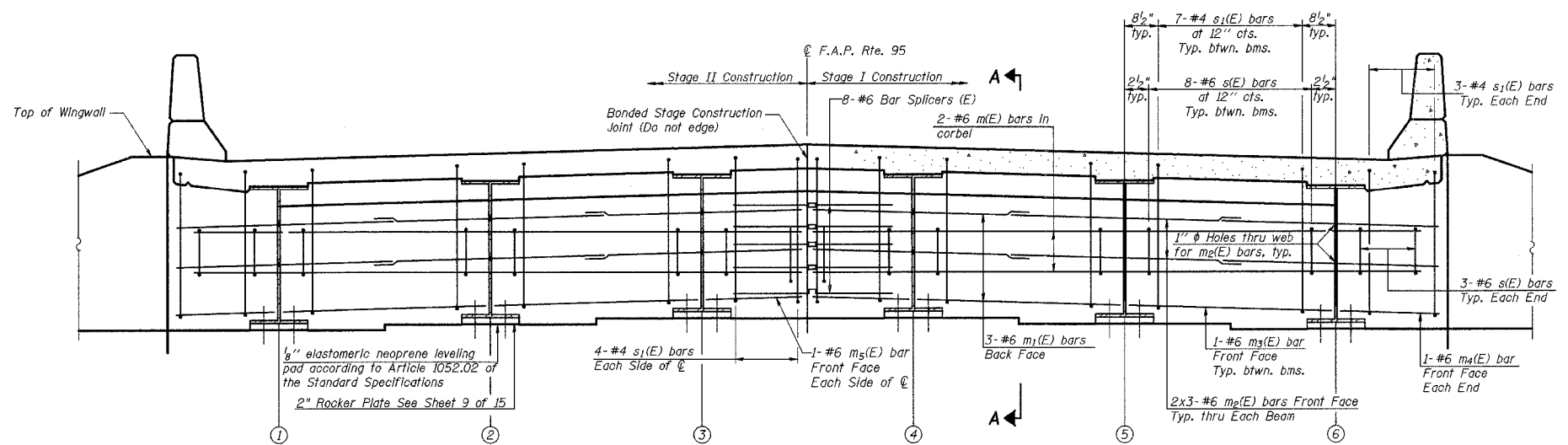
DRAWN BY: MLO/NUJ  
CHECKED BY: PBB/SJK

F.A.P. Rte.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	352
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 94356				

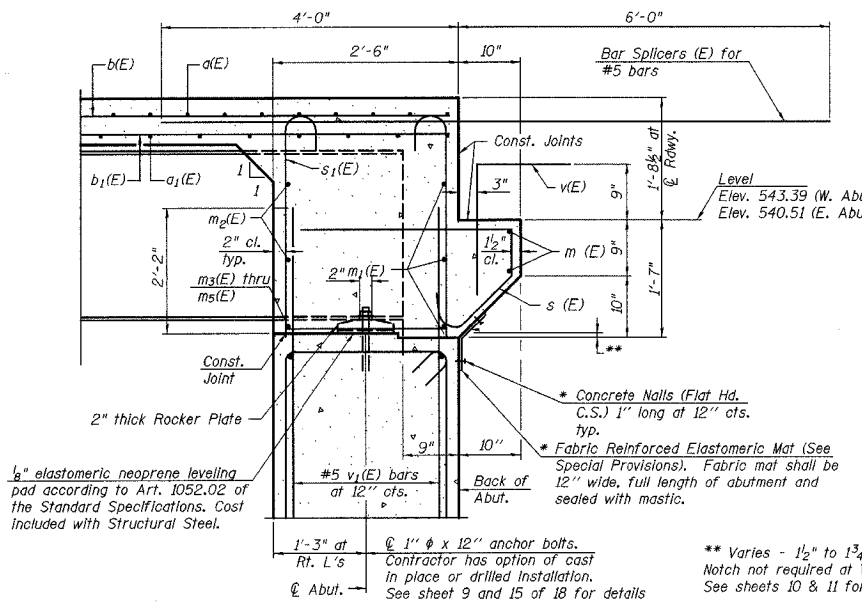
SHEET NO. 7  
SHEETS 18



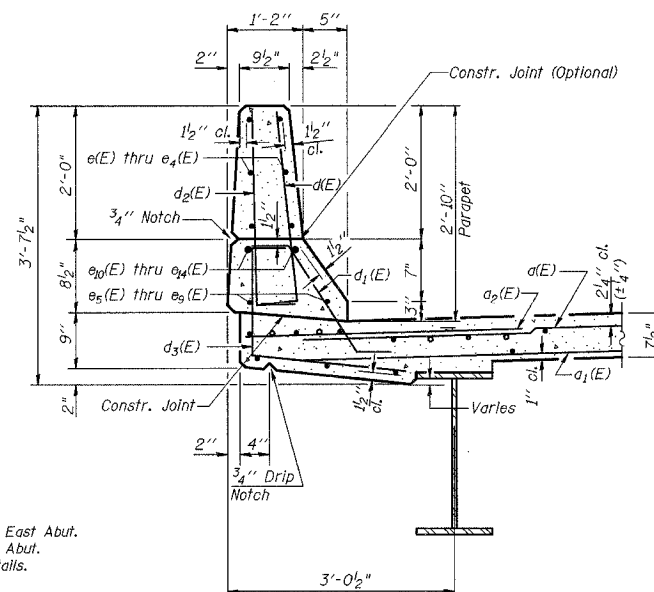
INSIDE ELEVATION OF PARAPET



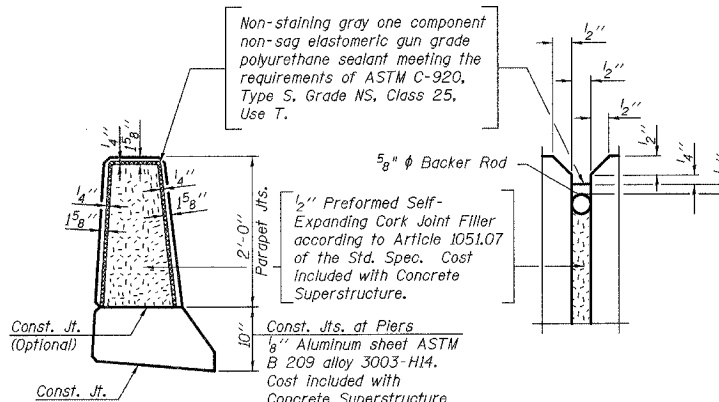
DIAPHRAGM ELEVATION AT ABUTMENT



SECTION A-A



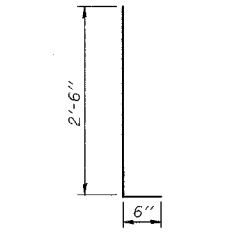
SECTION THRU PARAPET



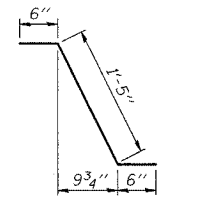
PARAPET JOINT DETAILS

MIN BAR LAPS

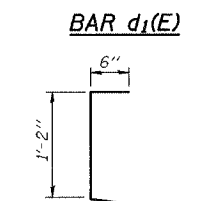
- #4 bar = 1'-8"
- #5 bar = 2'-2"
- #6 bar = 2'-9"
- #8 bar = 4'-6"



BAR d(E) & d2(E)

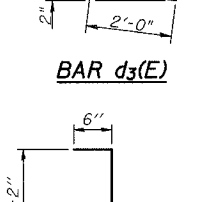


BAR s(E)

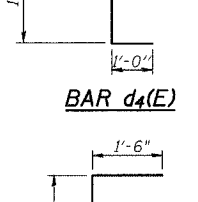


BAR d1(E)

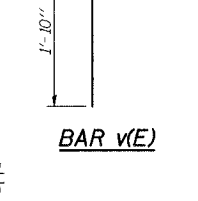
BAR s1(E)



BAR d3(E)



BAR d4(E)



BAR v(E)

SUPERSTRUCTURE  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	708	#5	20'-9"	
d1(E)	500	#5	20'-7"	
d2(E)	354	#6	4'-6"	
b(E)	322	#5	26'-8"	
b1(E)	44	#6	44'-6"	
b2(E)	252	#5	30'-10"	
b3(E)	44	#6	26'-9"	
d(E)	386	#5	3'-0"	
d1(E)	374	#5	2'-5"	
d2(E)	386	#4	3'-0"	
d3(E)	386	#4	3'-8"	
d4(E)	12	#5	2'-8"	
e(E)	36	#4	13'-9"	
e1(E)	24	#4	10'-2"	
e2(E)	24	#4	4'-9"	
e3(E)	24	#4	18'-6"	
e4(E)	48	#4	16'-0"	
e5(E)	8	#5	22'-1"	
e6(E)	8	#5	10'-2"	
e7(E)	8	#5	4'-9"	
e8(E)	8	#5	19'-10"	
e9(E)	12	#5	23'-2"	
e10(E)	8	#8	23'-3"	
e11(E)	8	#8	10'-2"	
e12(E)	8	#8	4'-9"	
e13(E)	4	#8	37'-5"	
e14(E)	8	#8	34'-10"	
m(E)	8	#6	20'-6"	
m1(E)	12	#6	21'-3"	
m2(E)	24	#6	8'-11"	
m3(E)	8	#6	7'-0"	
m4(E)	4	#6	2'-8"	
m5(E)	4	#6	3'-4"	
s(E)	92	#6	5'-7"	
s1(E)	84	#4	8'-6"	
v(E)	86	#5	3'-4"	
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	60850		
Concrete Superstructure	Cu. Yds.	249.9		
Bridge Deck Grooving	Sq. Yds.	748		
Protective Coat	Sq. Yds.	935		

Notes:  
Bars indicated thus 1x2-#5 etc. Indicates 1 line of bars with 2 lengths per line.  
Reinforcement bars in diaphragm are bitted with superstructure.  
Concrete in diaphragm is included with Concrete Superstructure.  
For bar splicer details see sheet 14 of 18.  
Pour abutment diaphragms monolithically with slab.  
For anchor bolt details see sheet 15 of 18.  
Work this sheet with sheet 6 of 18.

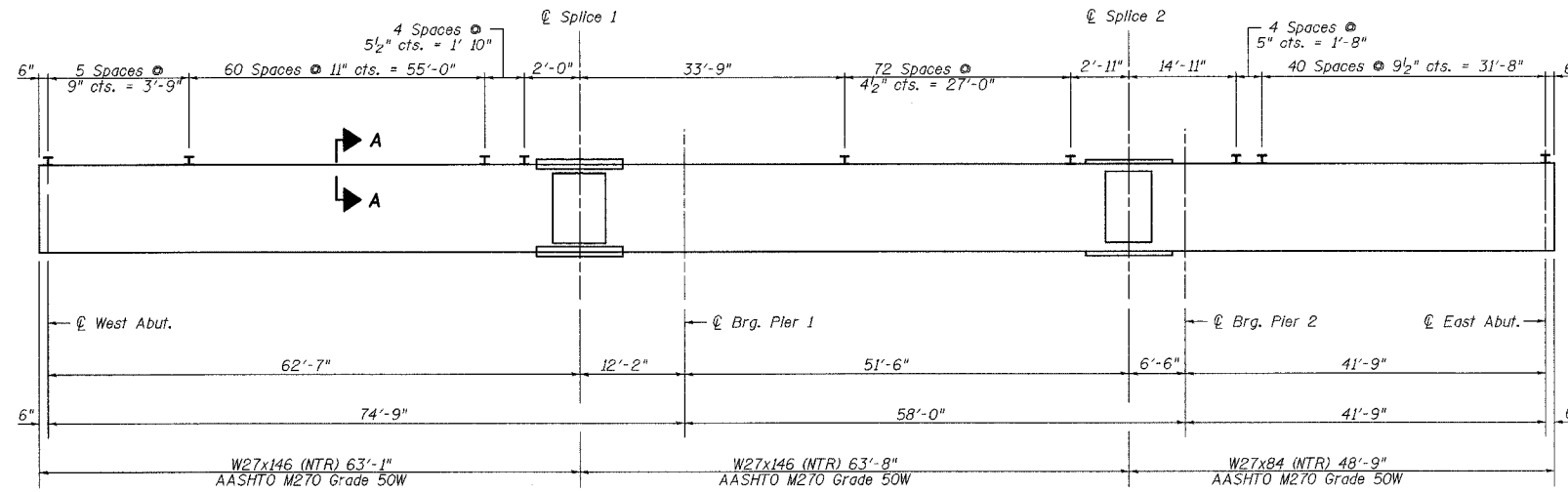
ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUPERSTRUCTURE DETAILS  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

DATE: OCT. 2003  
DRAWN BY: NJV  
CHECKED BY: PBB/SJK

F.A.P. R/L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	353
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 8  
SHEETS 18

CONTRACT NO. 94356



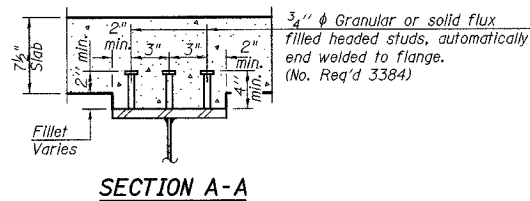
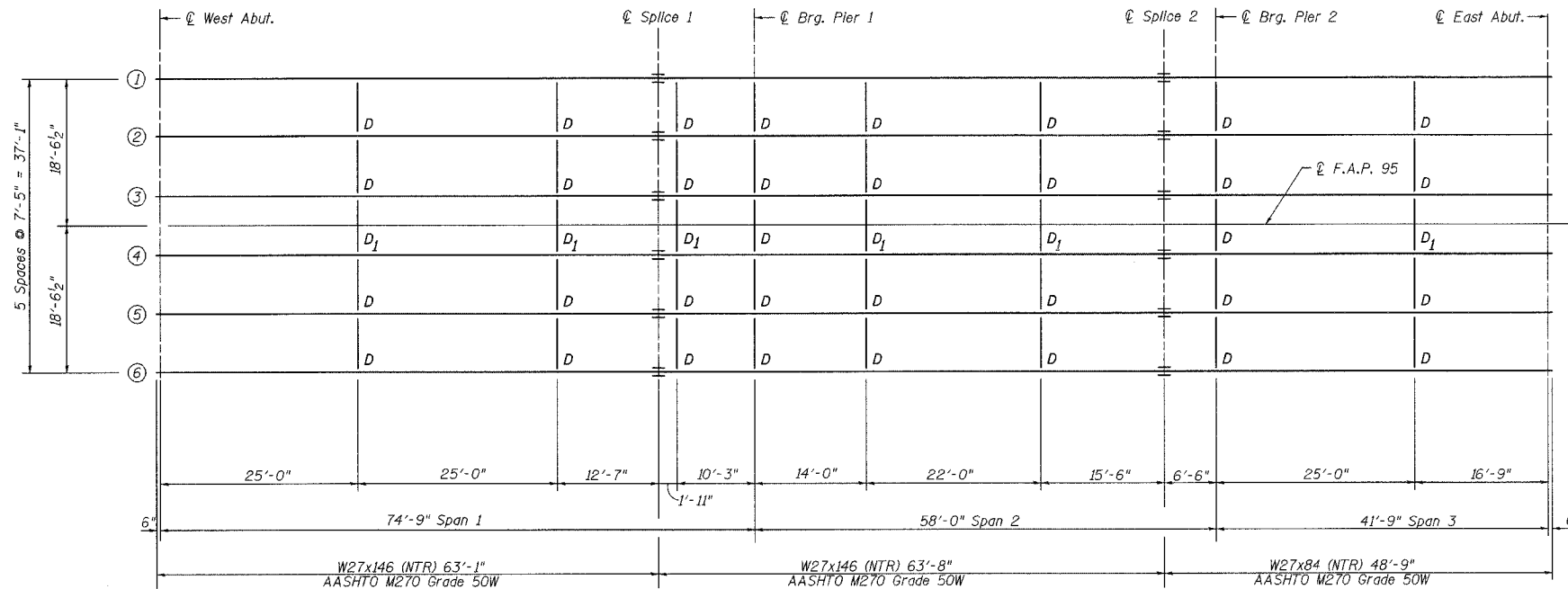
**INTERIOR GIRDER MOMENT TABLE**

	0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
$I_s$ ( $in^4$ )	5630	5630	5630	2850	2850
$I_c$ ( $in^4$ )	14244		14244		8635
$I_c$ ( $3n$ ) ( $in^4$ )	10516		10516		6588
$S_s$ ( $in^3$ )	411	411	411	213	213
$S_c$ ( $in^3$ )	576		576		330
$S_c$ ( $3n$ ) ( $in^3$ )	524		524		301
$Z$ ( $in^3$ )		461			
$\phi$ ( $k/?$ )	0.890	1.373	0.890	1.303	0.820
$M\phi$ ( $k$ )	407	666	81	217	113
$s\phi$ ( $k/?$ )	0.483		0.483		0.483
$Ms\phi$ ( $k$ )	248		78		74
$M\phi$ ( $k$ )	614	292	387	150	270
$M$ (Imp) ( $k$ )	154	77	105	43	81
$5/8[M\phi + M(imp)]$ ( $k$ )	1280	615	820	322	585
$Ma$ ( $k$ )	2516	1665	1273	701	1004
$Mu$ ( $k$ )	2801	1921	2347	1285	
$fs\phi$ non-comp ( $ksi$ )	11.9	19.5	2.4	12.3	6.4
$fs\phi$ (comp) ( $ksi$ )	5.7		1.8		3.0
$fs\phi$ [ $M\phi + M(imp)$ ] ( $ksi$ )	26.7	18.0	17.1	18.2	21.3
$fs$ (Overload) ( $ksi$ )	44.3	37.5	21.3	30.5	30.7
$fs$ (Total) ( $ksi$ )					39.7
$VR$ ( $k$ )	54.1		51.0		50.3

**INTERIOR GIRDER REACTION TABLE**

	E. Abut.	Pier 1	Pier 2	W. Abut.
$R\phi$ ( $k$ )	42.4	107.8	64.5	22.0
$R\phi$ ( $k$ )	41.4	51.1	43.7	36.1
$Imp.$ ( $k$ )	12.4	14.0	9.7	10.8
$R$ (Total) ( $k$ )	96.2	172.9	117.9	68.9

$I_s$  and  $S_s$  are the moment of inertia and section modulus of the steel section used in computing  $fs$  (Total & Overload).  
 $I_c$  and  $S_c$  are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.  
 $I_c(3n)$  and  $S_c(3n)$  are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)  
 $VR$  is the maximum Live Load + Impact shear range in span.  
 $Z$  is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.  
 $Ma$  (Applied Moment) =  $1.3[M\phi + Ms\phi + 5/8(M\phi + M(imp))]$ .  
The Plastic Moment capacity ( $Mu$ ) is computed according to AASHTO 10.48.1 and 10.50.1.1.  
 $fs$  (Overload) is the sum of the stresses due to  $M\phi + Ms\phi + 5/8(M\phi + M(imp))$ .  
 $fs$  (Total) (Non-compact section) is the sum of the stresses due to  $1.3[M\phi + Ms\phi + 5/8(M\phi + M(imp))]$ .



**TOP OF BEAM ELEVATIONS**  
(For Fabrication use Only)

	W. Abut.	Splice 1	Pier 1	Splice 2	Pier 2	E. Abut.
Beam 1 and 6	544.00	542.60	542.35	541.61	541.49	541.21
Beam 2 and 5	544.15	542.75	542.50	541.76	541.64	541.36
Beam 3 and 4	544.26	542.86	542.61	541.87	541.75	541.47

Notes:  
Steel designated with N.T.R. shall conform to the requirements for Notch Toughness (Zone 2).

Work this Sheet with Sheet 9 of 18.

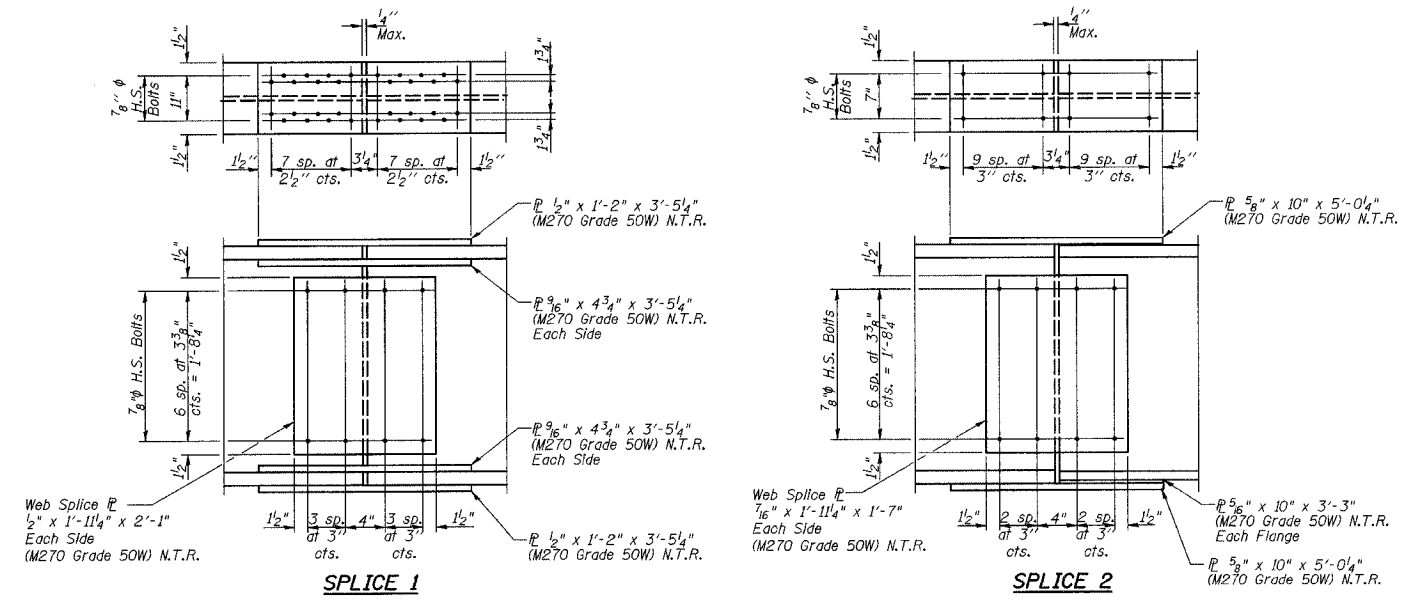
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FRAMING PLAN AND BEAM DETAILS**  
**ILLINOIS ROUTE 33 OVER**  
**BIG SALT CREEK**  
**F.A.P. ROUTE 95**  
**SECTION 7B-1**  
**EFFINGHAM COUNTY**  
**STA. 146+62.50**  
**STRUCTURE NUMBER 025-0101**

DATE: OCT. 2003

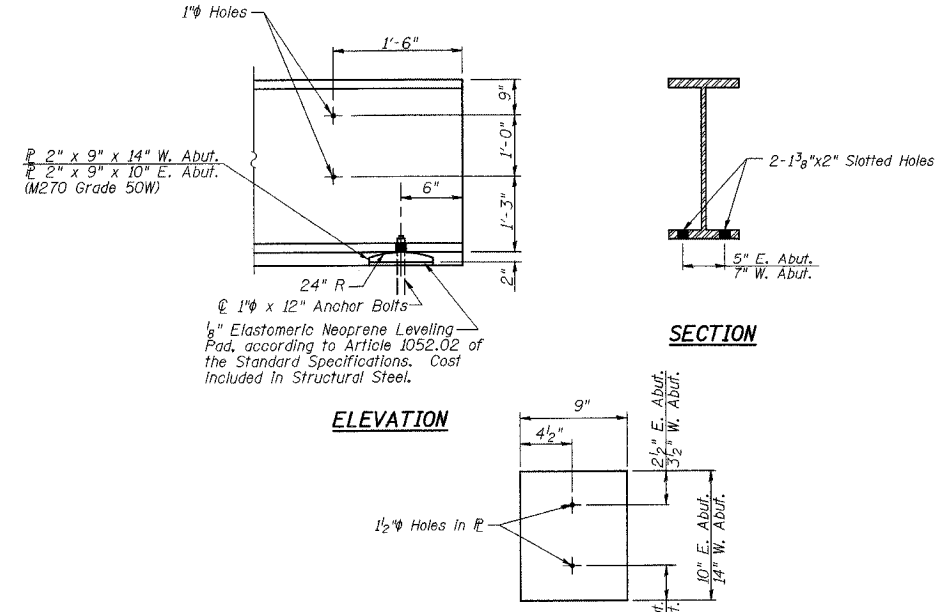
DRAWN BY: MLO/HJV  
CHECKED BY: PBB/SJK

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	354
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 94356				

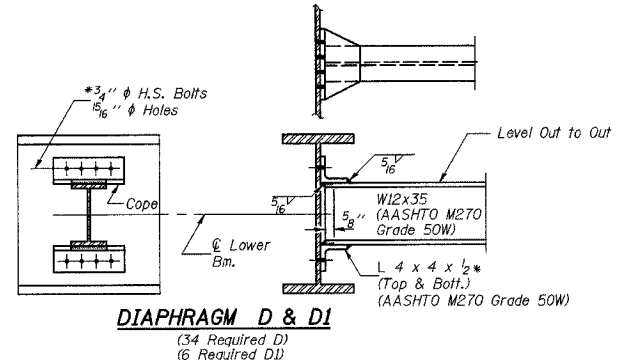
SHEET NO. 9  
SHEETS 18



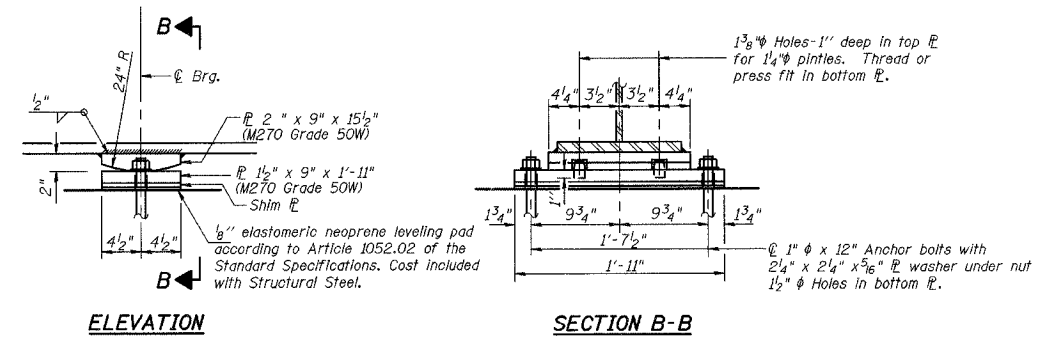
Note:  
Steel designated with N.T.R. shall conform to the requirements for Notch Toughness (Zone 2).



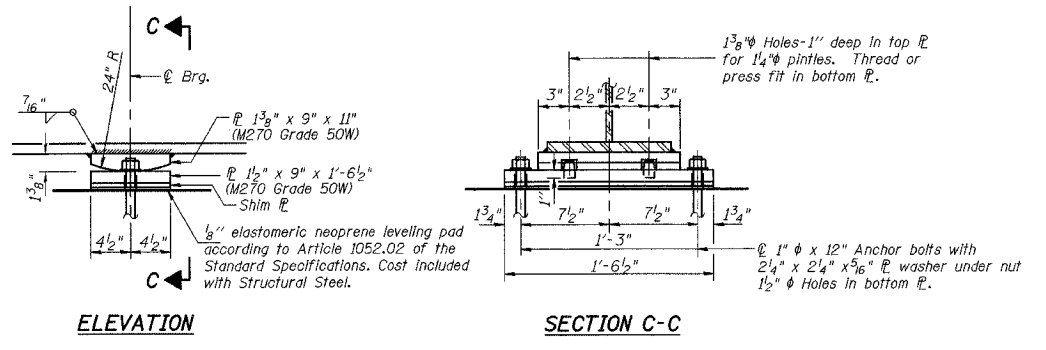
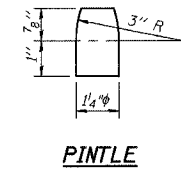
NEOPRENE MAT AND ROCKER PLAN AT ABUTMENTS  
(12 Required)



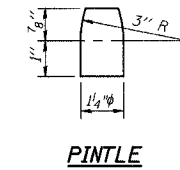
DIAPHRAGM D & D1  
(34 Required D)  
(6 Required D1)



FIXED BEARING AT PIER 1  
(6 Required)



FIXED BEARING AT PIER 2  
(6 Required)



Note:  
Two hardened washers shall be required over all oversize holes for diaphragms.

\* Provide vertical slotted holes 1/8 inch x 1 7/8 inch in the North angles only at D1. Bolts shall be finger-tightened prior to the deck pour for Stage II construction and then fully tightened after completion of the deck pour for Stage II construction.

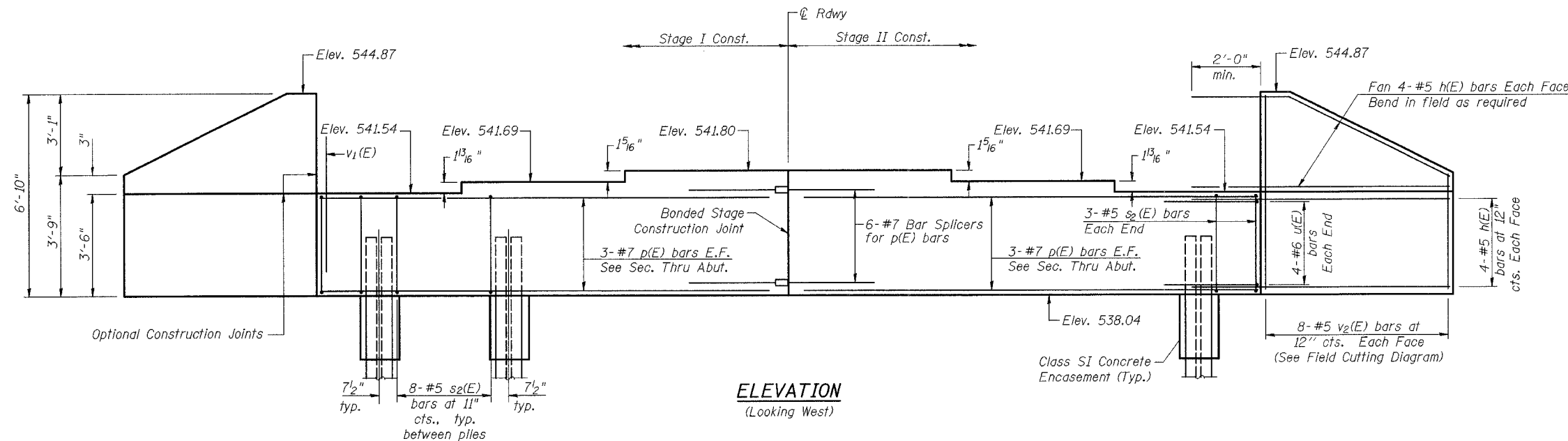
Note:  
Work this Sheet with Sheet 8 of 18.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
STRUCTURAL STEEL DETAILS  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101  
DATE: OCT. 2003  
DRAWN BY: MLO/NJV  
CHECKED BY: PBB/SJK

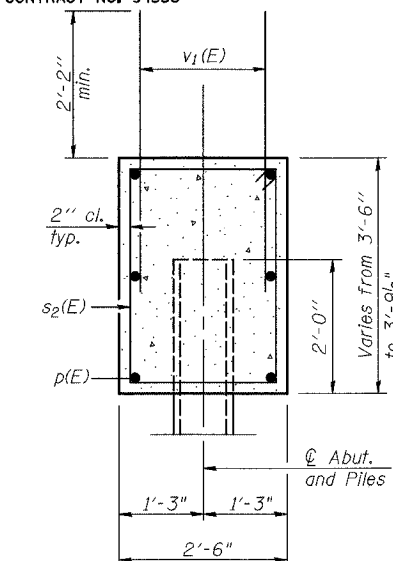
F.A.P. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	355
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 10  
SHEETS 18

CONTRACT NO. 94356



**ELEVATION**  
(Looking West)



**SEC. THRU ABUT.**

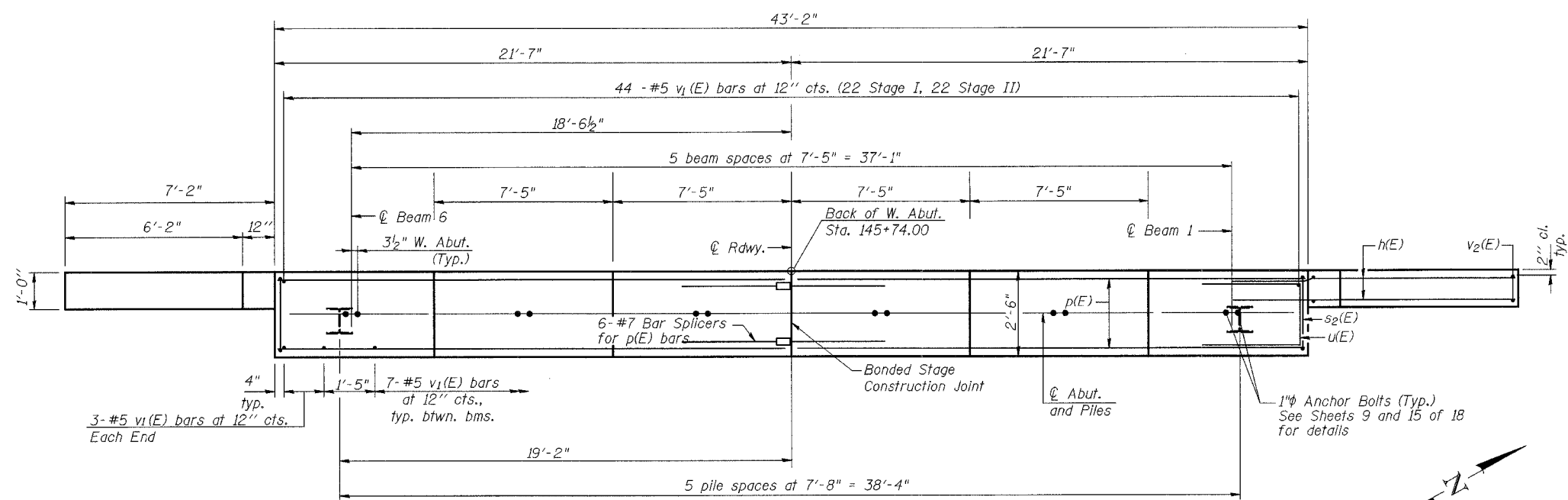
**PILE DATA**

Type: Steel HP 10x57  
Capacity: Nominal Required Bearing: 453kips  
Allowable Resistance Available: 124kips\*  
Est. Length: 26'  
No. Required: 5 + 1 Test Pile  
\* Limit capacity to 7.4 ksi per pile due to negative skin friction.

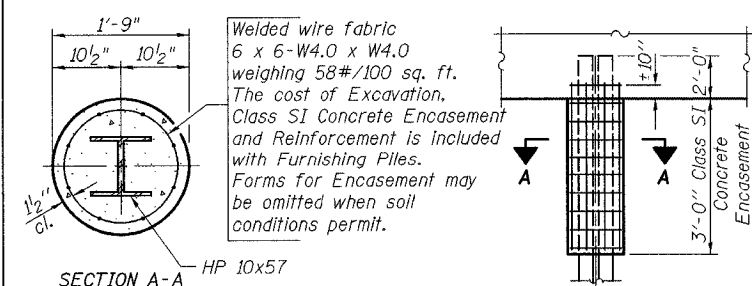
**W. ABUT.**

**BILL OF MATERIAL**

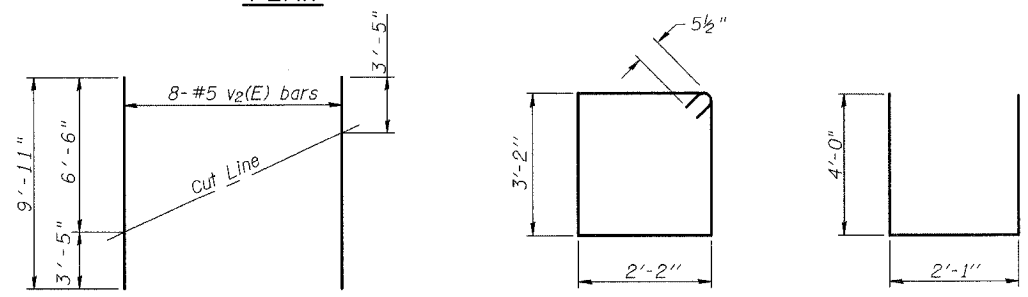
Bar	No.	Size	Length	Shape
h(E)	32	#5	9'-0"	—
p(E)	12	#7	21'-3"	—
s2(E)	46	#5	11'-7"	□
u(E)	8	#6	10'-1"	—
v1(E)	85	#5	4'-4"	—
v2(E)	16	#5	9'-11"	—
Concrete Structures		Cu. Yd.	17.4	
Reinforcement Bars, Epoxy Coated		Pound	2050	
Structure Excavation		Cu. Yd.	132	
Furnishing Steel Piles HP 10x57		Ft.	130	
Driving Piles		Ft.	130	
Test Pile Steel HP 10x57		Each	1	



**PLAN**



**PILE ENCASEMENT DETAIL**



**FIELD CUTTING DIAGRAM**

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

Notes:  
Pour steps monolithically with cap.  
The Steel H Piles shall be according to AASHTO M270 Grade 50.  
The Test Pile shall be driven to 110 percent of the nominal required bearing indicated in the Pile Data information.  
Space reinforcement to miss anchor bolts.  
All edges to have 3/4\"/>

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**WEST ABUTMENT**  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

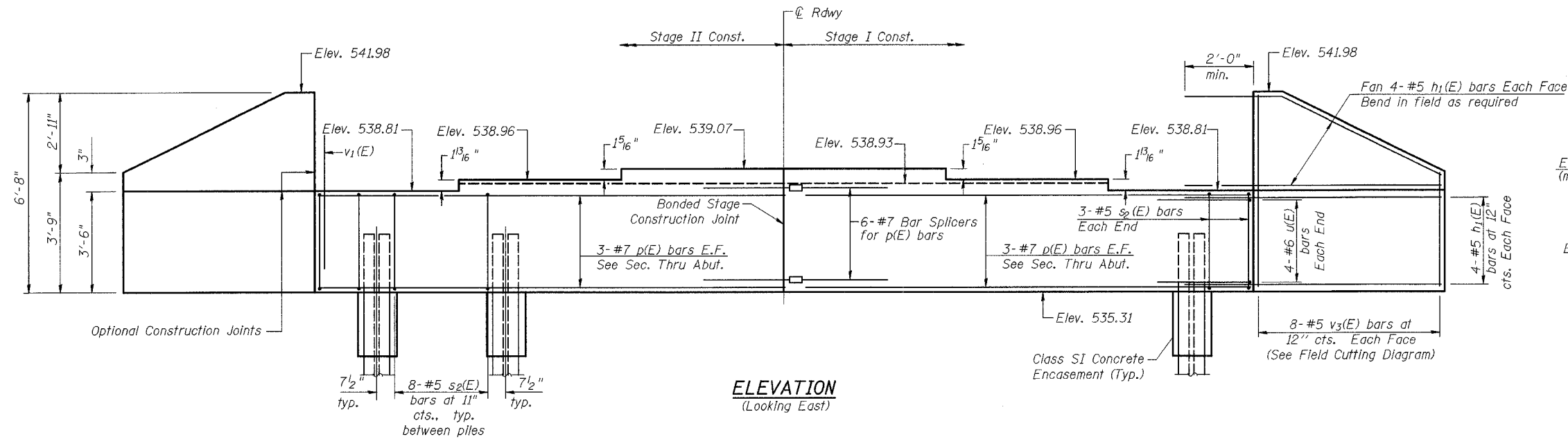
DATE: OCT. 2003

DRAWN BY: NJV  
CHECKED BY: PBB/SJK

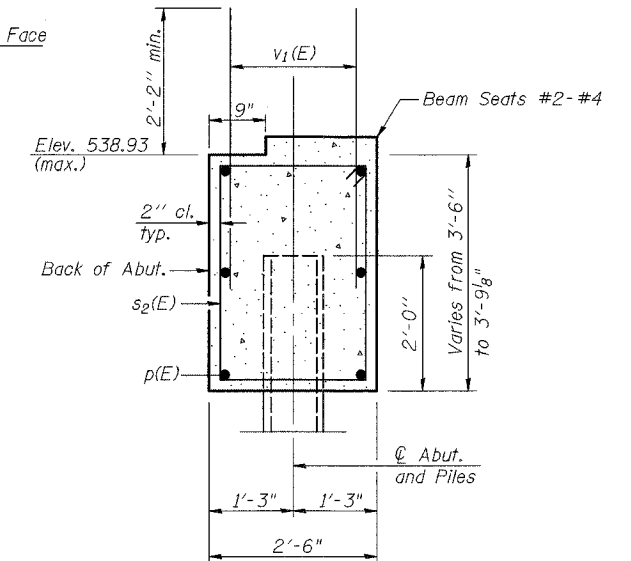
F.A.P. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	356
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 11  
SHEETS 18

CONTRACT NO. 94356



**ELEVATION**  
(Looking East)



**SEC. THRU ABUT.**

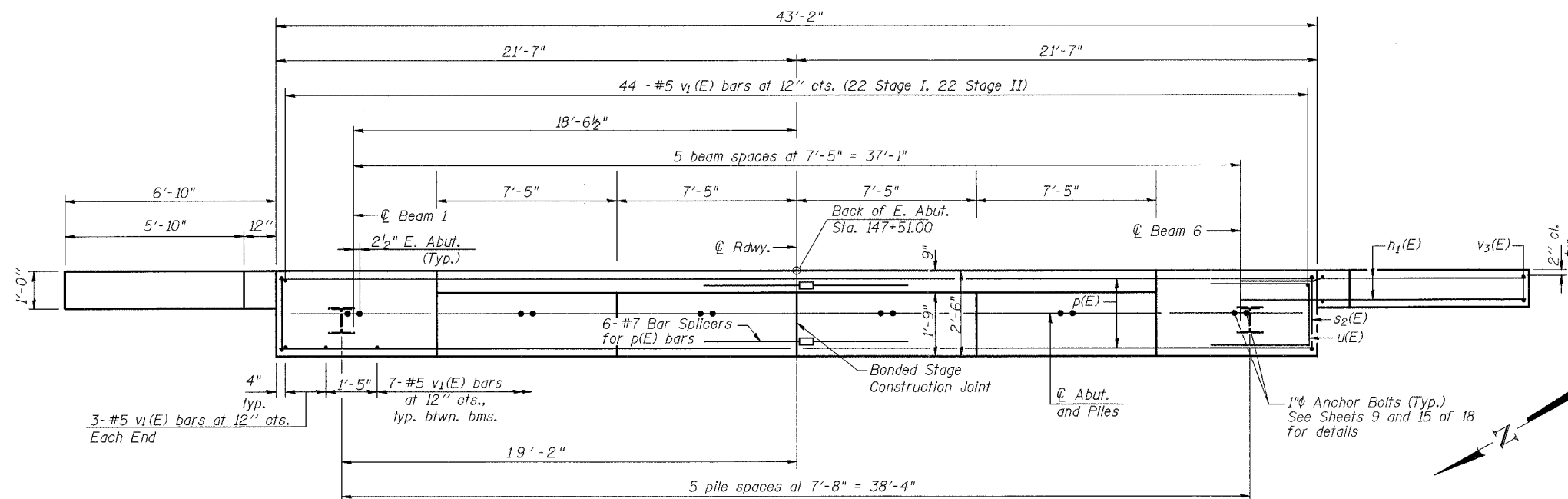
**PILE DATA**

Type: Steel HP 10x57  
Capacity: Nominal Required Bearing: 453kips  
Allowable Resistance Available: 124kips\*  
Est. Length: 26'  
No. Required: 5 + 1 Test Pile  
\* Limit capacity to 7.4 ksi per pile due to negative skin friction.

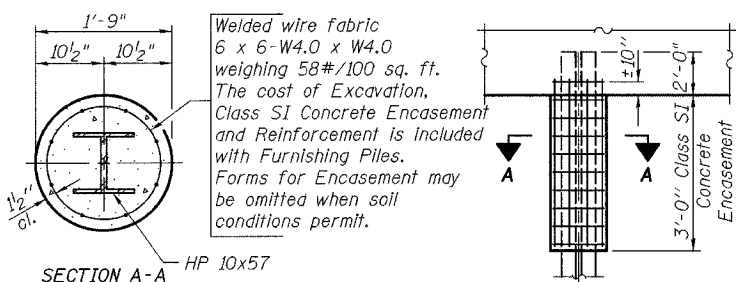
**E. ABUT.**

**BILL OF MATERIAL**

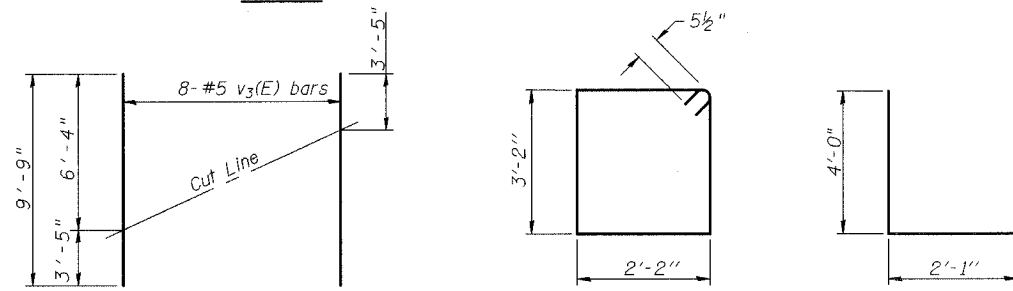
Bar	No.	Size	Length	Shape	
h <sub>1</sub> (E)	32	#5	8'-8"	—	
p(E)	12	#7	21'-3"	—	
s <sub>2</sub> (E)	46	#5	11'-7"	□	
u(E)	8	#6	10'-1"	—	
v <sub>1</sub> (E)	85	#5	4'-4"	—	
v <sub>3</sub> (E)	16	#5	9'-9"	—	
Concrete Structures				Cu. Yd.	17.4
Reinforcement Bars, Epoxy Coated				Pound	2040
Structure Excavation				Cu. Yd.	132
Furnishing Steel Piles HP 10x57				Ft.	130
Driving Piles				Ft.	130
Test Pile Steel HP 10x57				Each	1



**PLAN**



**PILE ENCASEMENT DETAIL**



**FIELD CUTTING DIAGRAM**

Order v<sub>3</sub>(E) full length. Cut as shown and use remainder of bars in opposite face.

**BAR s<sub>2</sub>(E)**

**BAR u(E)**

**Notes:**

Pour steps monolithically with cap.

The Steel H Piles shall be according to AASHTO M270 Grade 50.

The Test Pile shall be driven to 110 percent of the nominal required bearing indicated in the Pile Data information.

Space reinforcement to miss anchor bolts.

All edges to have 3/4 inch chamfer except as noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EAST ABUTMENT  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

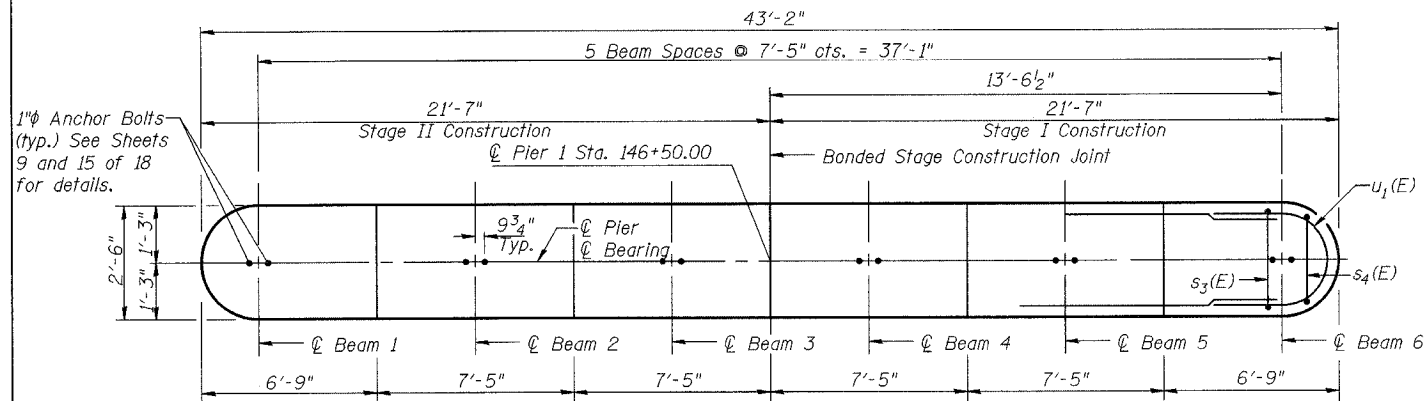
DATE: OCT. 2003

DRAWN BY: NJV  
CHECKED BY: PBB/SJK

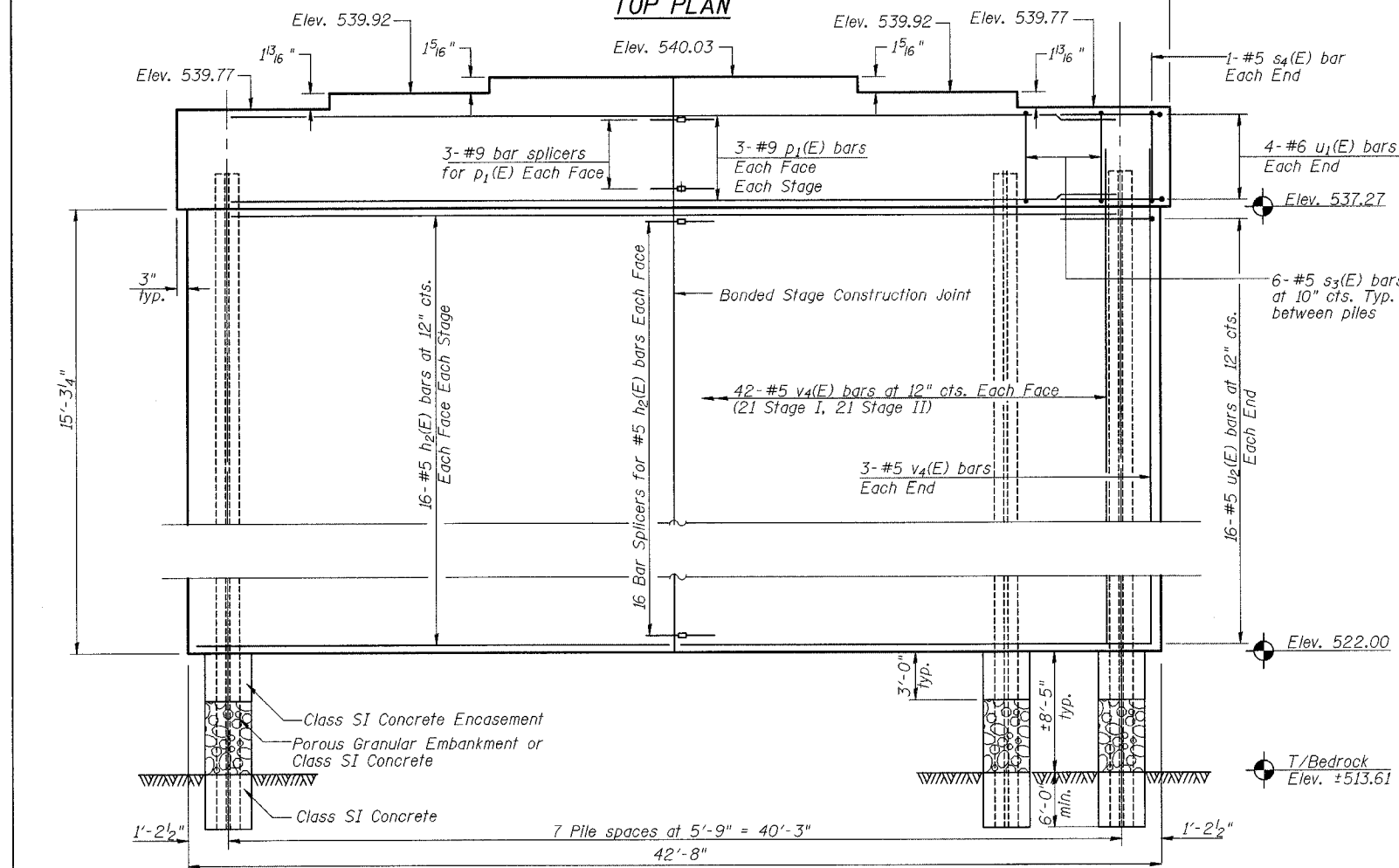
F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	357
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 12  
SHEETS 18

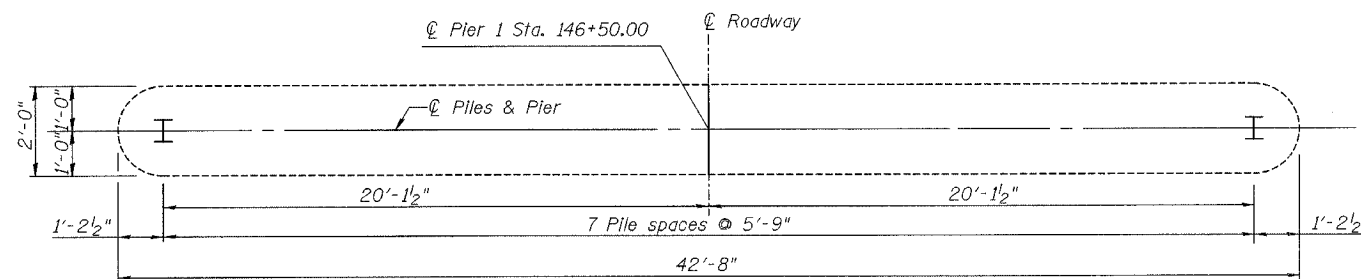
CONTRACT NO. 94356



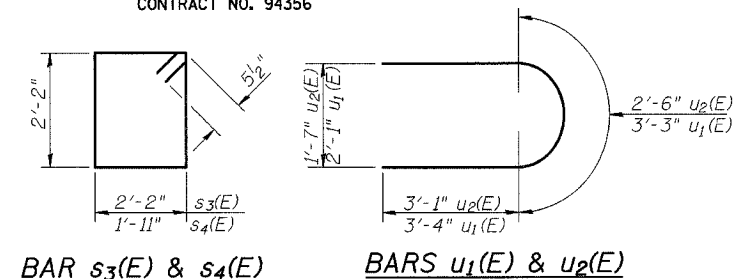
TOP PLAN



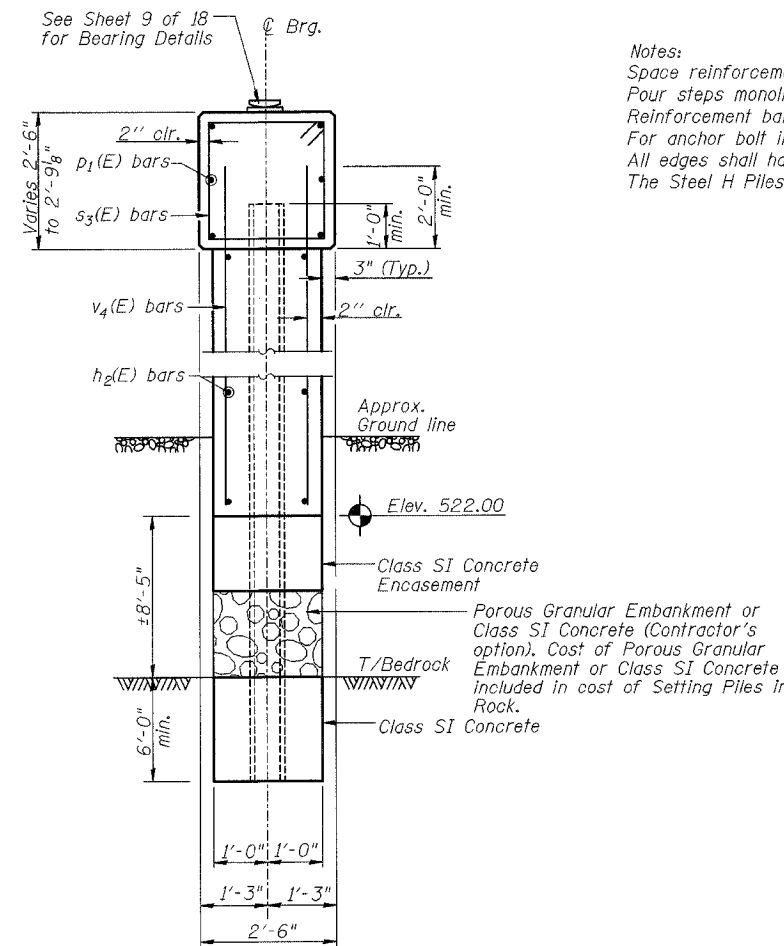
ELEVATION  
(Looking East)



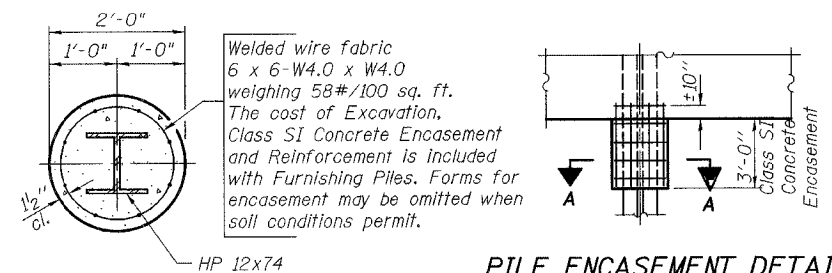
PILE LAYOUT



Notes:  
Space reinforcement in cap to miss anchor bolts.  
Pour steps monolithically with cap.  
Reinforcement bars designated (E) shall be epoxy coated.  
For anchor bolt installation see sheet 15 of 18.  
All edges shall have standard 3/4" chamfers except as noted.  
The Steel H Piles shall be according to AASHTO M270 Grade 50.



PIER SECTION



SECTION A-A

PILE ENCASEMENT DETAIL

PILE DATA

Type: HP 12x74  
Capacity: Set in Rock  
Est. Length: 31'  
No. Req'd: 8

PIER 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h <sub>2</sub> (E)	64	#5	20'-2"	—
p <sub>1</sub> (E)	12	#9	20'-2"	—
s <sub>3</sub> (E)	42	#5	9'-7"	□
s <sub>4</sub> (E)	2	#5	9'-1"	□
u <sub>1</sub> (E)	8	#6	9'-11"	U
u <sub>2</sub> (E)	32	#5	8'-8"	U
v <sub>4</sub> (E)	90	#5	17'-1"	—
Concrete Structures	Cu. Yd.	58.3		
Reinforcement Bars, Epoxy Coated	Pound	4620		
Structure Excavation	Cu. Yd.	73		
Setting Piles in Rock	Each	8		
Underwater Structure Excavation Protection Location 1	Each	1		
Furnishing Steel Piles HP 12x74	Ft.	248		

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PIER 1  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

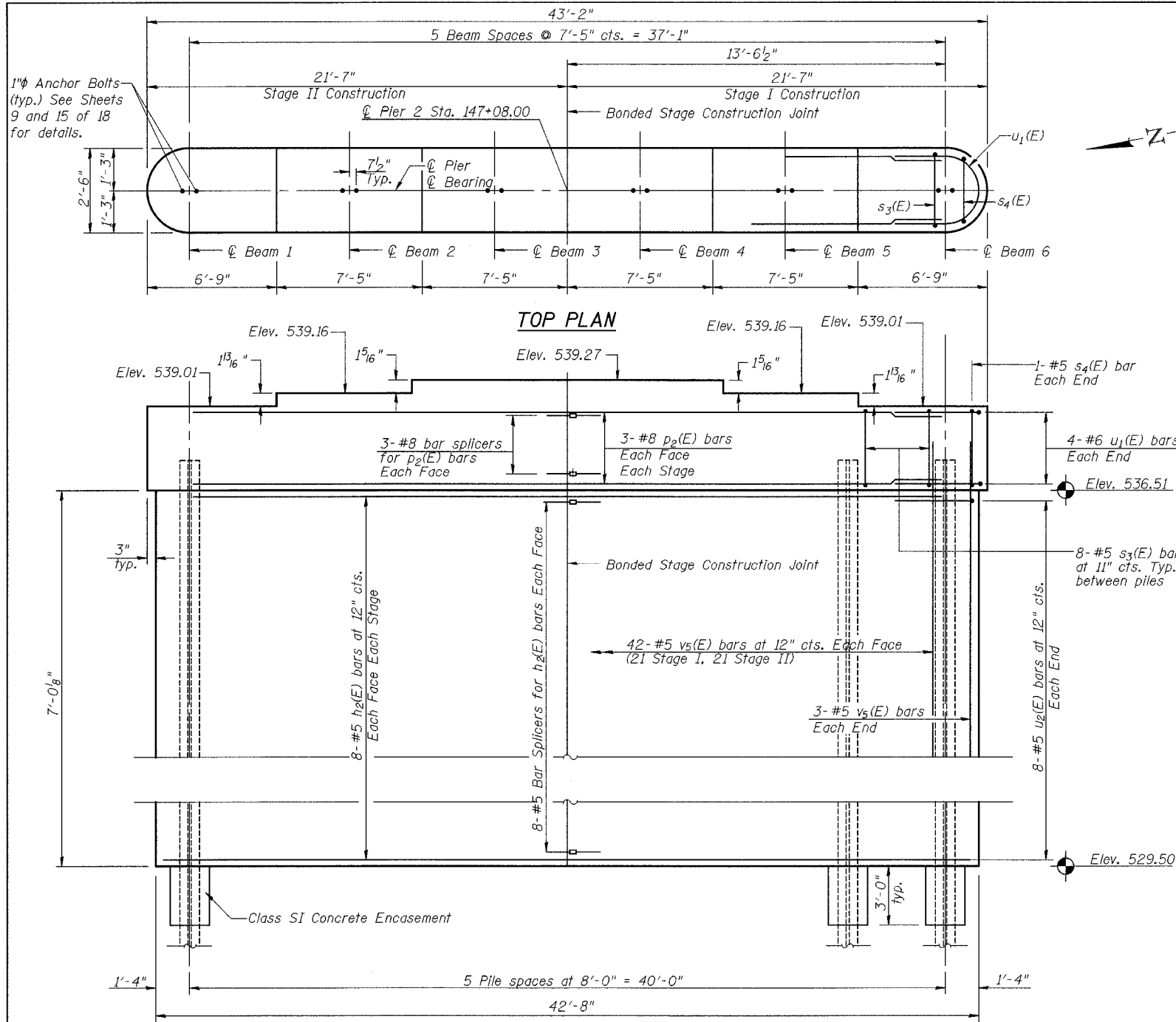
DATE: OCT. 2003

DRAWN BY: NJV  
CHECKED BY: PBB/SJK

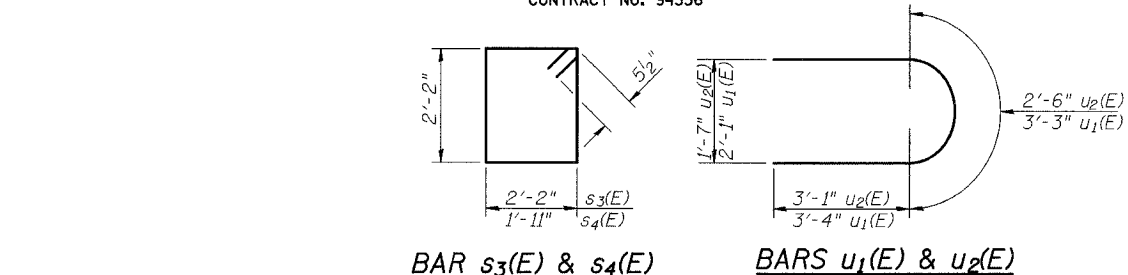
F.A.P. PILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
95	7B-1	EFFINGHAM	409	358
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 13  
SHEETS 18

CONTRACT NO. 94356

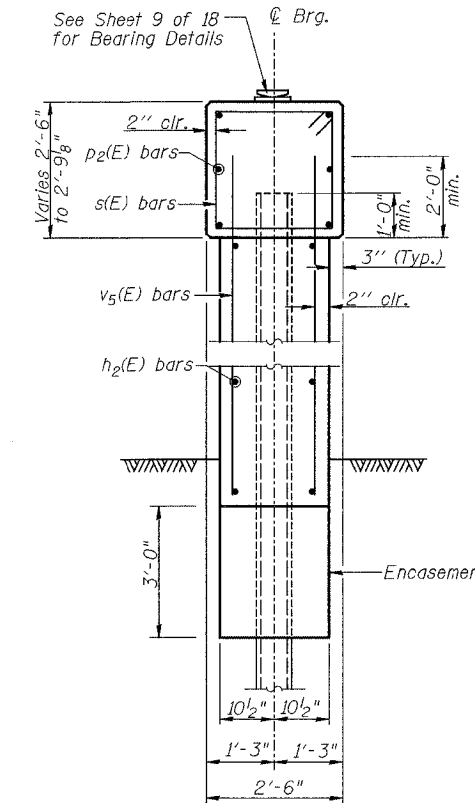


**ELEVATION**  
(Looking East)



**BAR s3(E) & s4(E)**      **BARS u1(E) & u2(E)**

Notes:  
Space reinforcement in cap to miss anchor bolts.  
Four steps monolithically with cap.  
Reinforcement bars designated (E) shall be epoxy coated.  
For anchor bolt installation see sheet 15 of 18.  
All edges shall have standard 3/4" chamfers except as noted.  
The Steel H Piles shall be according to AASHTO M270 Grade 50.



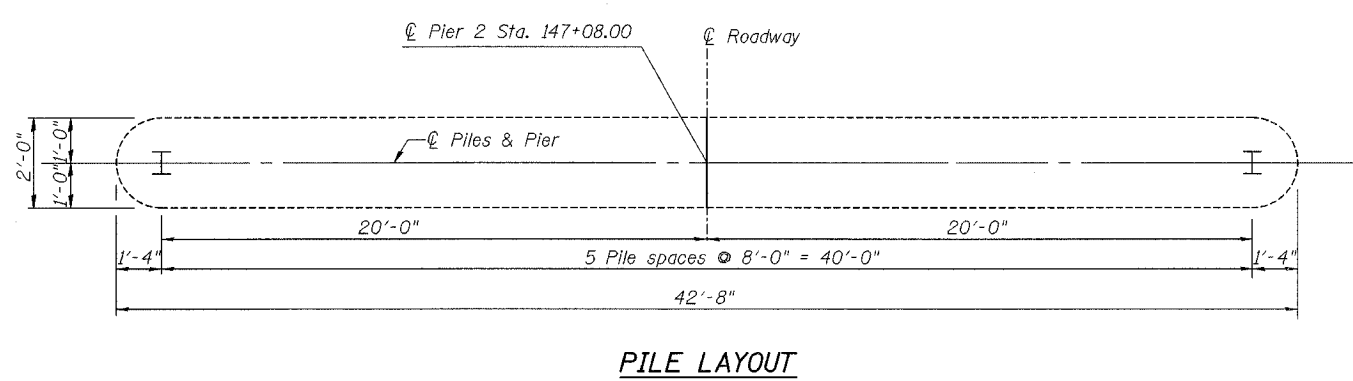
**PIER SECTION**

**PILE DATA**

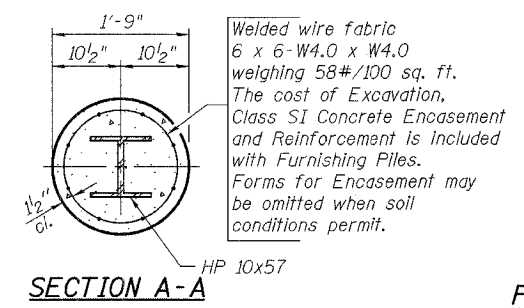
Type: HP 10x57  
Capacity: Nominal Required Bearing: 453kips  
Allowable Resistance Available: 124kips\*  
Est. Length: 26'  
No. Req'd: 6  
\* Limit capacity to 7.4 ksi per pile due to negative skin friction.

**PIER 2  
BILL OF MATERIAL**

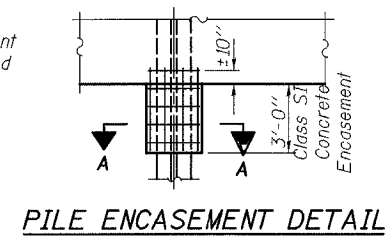
Bar	No.	Size	Length	Shape
h2(E)	32	#5	20'-2"	—
p2(E)	12	#8	20'-2"	—
s3(E)	40	#5	9'-7"	□
s4(E)	2	#5	9'-1"	□
u1(E)	8	#6	9'-11"	U
u2(E)	16	#5	8'-8"	U
v5(E)	90	#5	8'-10"	—
Concrete Structures	Cu. Yd.		32.5	
Reinforcement Bars, Epoxy Coated	Pound		2840	
Structure Excavation	Cu. Yd.		11	
Driving Piles	Ft.		156	
Furnishing Steel Piles HP 10x57	Ft.		156	



**PILE LAYOUT**



**SECTION A-A**



**PILE ENCASEMENT DETAIL**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PIER 2**  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

DATE: OCT. 2003      DRAWN BY: NJV  
CHECKED BY: PBB/SJK



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAP SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	359
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 94356

SHEET NO. 14  
SHEETS 18

The diameter of this part is the same as the diameter of the bar spliced.

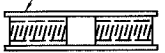
The diameter of this part is equal or larger than the diameter of bar spliced.

**ROLLED THREAD DOWEL BAR**



**\*\* ONE PIECE**

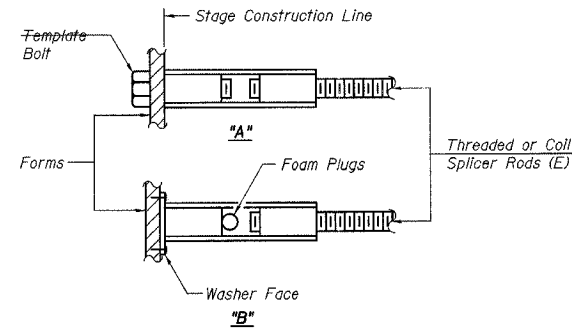
Wire Connector



**WELDED SECTIONS**

**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



**INSTALLATION AND SETTING METHODS**

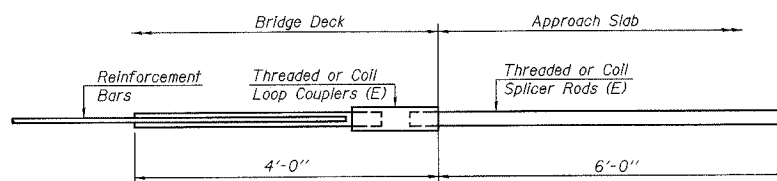
"A" : Set bar splicer assembly by means of a template bolt.  
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E) : Indicates epoxy coating.

**NOTES**

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

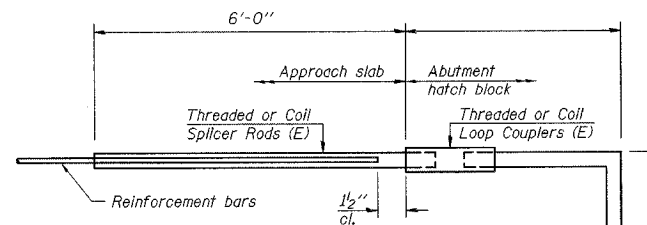
- Minimum Capacity (Tension in kips) =  $1.25 \times f_y \times A_t$
  - Minimum \*Pull-out Strength (Tension in kips) =  $0.66 \times f_y \times A_t$
- Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



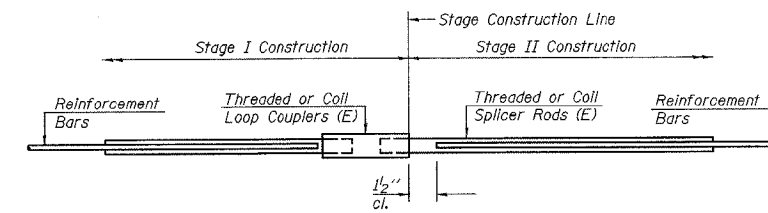
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 84



**FOR STUB ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



**STANDARD**

Bar Size	No. Assemblies Required	Location
#7	6	W. Abutment
#7	6	E. Abutment
#6	8	W. Abutment Diaph.
#6	8	E. Abutment Diaph.
#5	604	Slab Stage Line
#9	6	Pier #1
#5	32	Pier #1
#8	6	Pier #2
#5	16	Pier #2

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BAR SPLICER ASSEMBLY DETAILS**  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

DATE: OCT. 2003  
DRAWN BY: NJV  
CHECKED BY: PBB/SJK

BSD-1

11-1-06

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

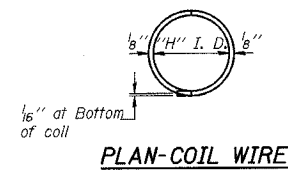
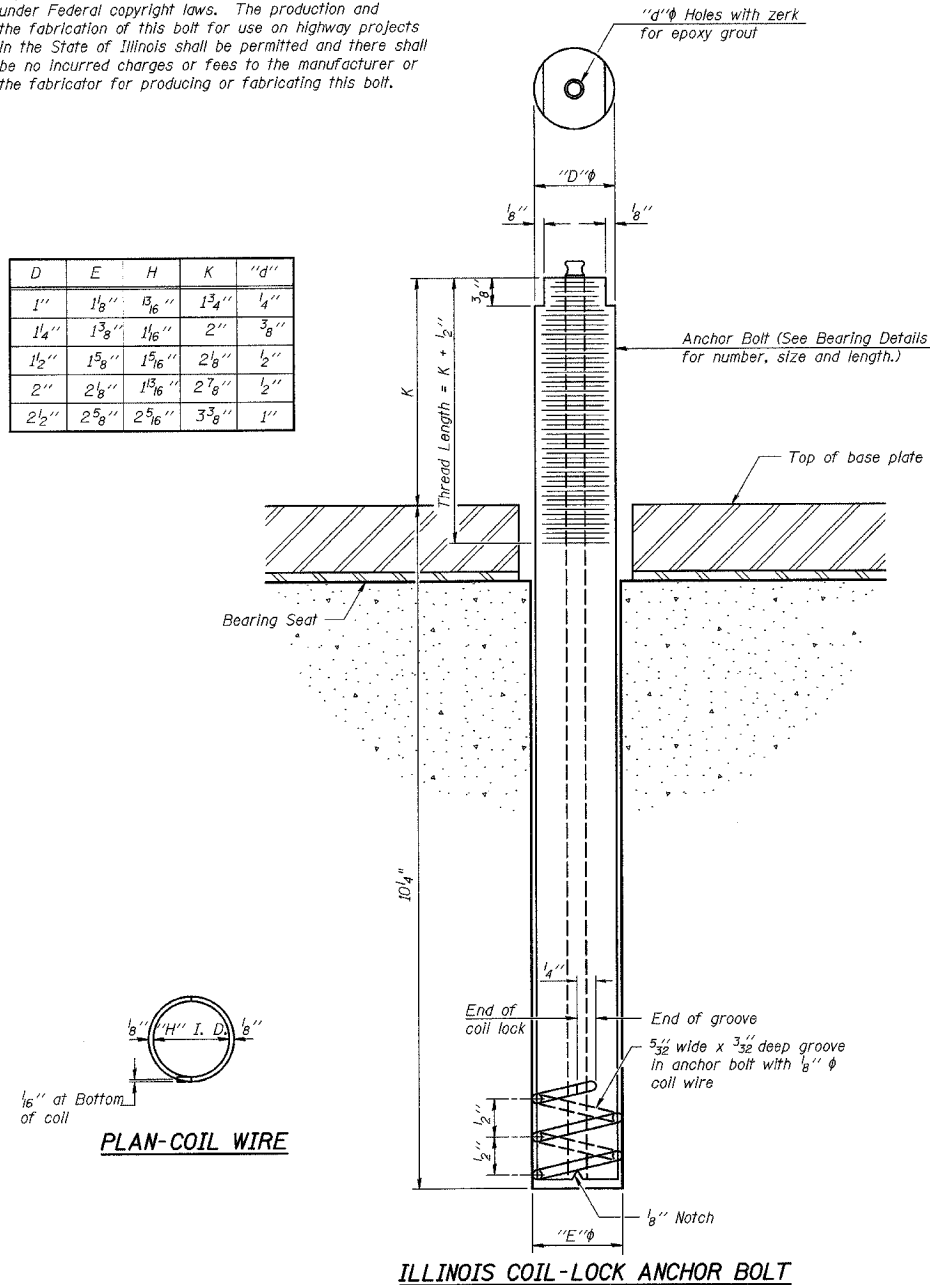
F.A.P. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	360
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 15  
SHEETS 18

CONTRACT NO. 94356

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1/16"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 3/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



**MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT**

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.  
The coil wire shall be made of any suitable soft steel wire.  
The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.  
The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

**INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT**

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

**ALTERNATE ANCHOR BOLTS**

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.  
The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:  
1. A threaded rod stud with nut and washer of the type specified.  
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
W. Abut.	A307
E. Abut.	A307
Pier 1	A307
Pier 2	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

**GENERAL NOTES**

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.  
Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

ABB-1 4-30-99

ILLINOIS DEPARTMENT OF TRANSPORTATION  
ANCHOR BOLT DETAILS  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

DATE: OCT. 2003

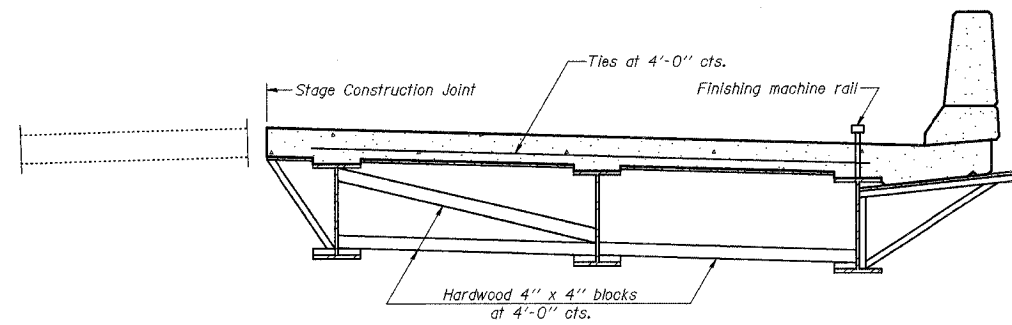
DRAWN BY: NJV  
CHECKED BY: SJK

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	409	361
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 94356

SHEET NO. 16  
SHEETS 18



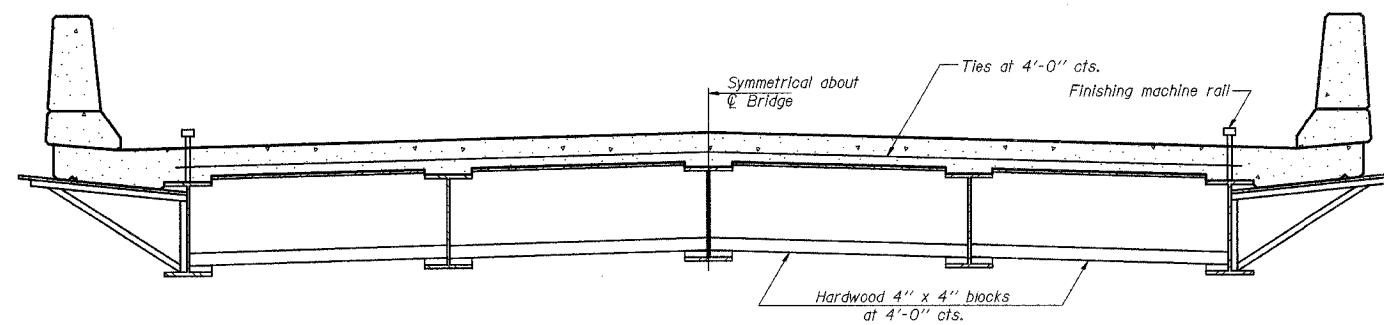
**FORM BRACES FOR  
STAGE CONSTRUCTION**

When cantilever forming brackets are used, the work shall be done according to Article 503.06, except as modified below and in the details shown on this sheet.

The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.




**FORM BRACES FOR  
STANDARD CONSTRUCTION**

SB-1 9-01-03

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CANTILEVER FORMING BRACKETS  
ILLINOIS ROUTE 33 OVER  
BIG SALT CREEK  
F.A.P. ROUTE 95  
SECTION 7B-1  
EFFINGHAM COUNTY  
STA. 146+62.50  
STRUCTURE NUMBER 025-0101

DATE: OCT. 2003

DRAWN BY: NJV  
CHECKED BY: PBB/SJK



**Illinois Department of Transportation**  
SOIL BORING LOG

Date: 7/10/02

ROUTE (APPROX.) DESCRIPTION: Big Salt Creek      LOGGED BY: E. Sandeicher

SECTION: 7B-1      LOCATION: SW 1/4, SEC 25, TWP. 24 N, R. 20 E, S. 20

COUNTY: Effingham      DRILLING METHOD: Hollow stem auger & soil spoon      HAMMER TYPE: Automatic 140#


STRUCT. NO.: 025-0101      Station: 146+62.5

BORING NO.: 1 of 2 (West Side)      Depth: 11.00 ft

Ground Surface Elev.: 541.25 ft

DEPTH (ft)	SOIL TYPE	MOISTURE (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	SOIL DESCRIPTION	DEPTH (ft)	SOIL TYPE	MOISTURE (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	SOIL DESCRIPTION
0					Surface Water Elev. 543.00 ft, R Ground Surface Elev. 541.25 ft, H	0					
0.5					Groundwater Elev. 541.00 ft, W First Encounter 11.00 ft, W Upon Completion Washed 11.00 ft, W After Arc. samples R	0.5					
1.0					Soft, damp, gray CLAY with black mottling (oxidized)	1.0					
1.5						1.5					
2.0					Soft, very damp, brown, CLAY w/ rock fragments	2.0					
2.5					Dark, very damp, gray, CLAY w/ rock fragments	2.5					
3.0					Medium, damp, brown, CLAY w/ some silt and few pebbles	3.0					
3.5					Soft, very damp, brown, CLAY w/ rock fragments	3.5					
4.0					Very soft, very damp, brown, CLAY w/ black mottling	4.0					
4.5					Medium, damp, brown, SANDY CLAY w/ many sandstone fragments	4.5					
5.0						5.0					
5.5					Soft to medium, very damp, brown, SANDY LOAM w/ many sandstone fragments	5.5					
6.0						6.0					
6.5					Soft, damp, mold, gray, SANDSTONE	6.5					
7.0					Very dense, mold, gray, SANDSTONE	7.0					
7.5						7.5					
8.0					Gray, fine grained, CLAY	8.0					
8.5					Dark gray, heavy, clay, gray, SILTY CLAY w/ few sand lenses and many wood chunks	8.5					
9.0						9.0					
9.5					Very soft, very damp, gray, SILTY CLAY	9.5					
10.0						10.0					
10.5						10.5					
11.0						11.0					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (R-Subso, S-Shear, P-Plasticity)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586)      22.5, from 137 (Rev. 9-99)



**Illinois Department of Transportation**  
ROCK CORE LOG

Date: 7/10/02

ROUTE (APPROX.) DESCRIPTION: Big Salt Creek      LOGGED BY: E. Sandeicher

SECTION: 7B-1      LOCATION: SW 1/4, SEC 25, TWP. 24 N, R. 20 E, S. 20

COUNTY: Effingham      DRILLING METHOD: Rotary and air driven bit

STRUCT. NO.: 025-0101      Station: 146+62.5

BORING NO.: 1 of 2 (West Side)      Depth: 11.00 ft

Ground Surface Elev.: 541.25 ft

Gray, SANDSTONE within bank by way

DEPTH (ft)	ROCK TYPE	DEPTH (ft)	ROCK TYPE	DEPTH (ft)	ROCK TYPE	DEPTH (ft)	ROCK TYPE
0		0		0		0	
1		1		1		1	
2		2		2		2	
3		3		3		3	
4		4		4		4	
5		5		5		5	
6		6		6		6	
7		7		7		7	
8		8		8		8	
9		9		9		9	
10		10		10		10	
11		11		11		11	

Extent of exposure: \_\_\_\_\_

Benchmark: TBM #1 Elev 540.25' NE corner TOC 1.2' from E side of existing structure.

Provided by: Program Development.

Color photos of the cores \_\_\_\_\_

Cores will be stored for future use until \_\_\_\_\_

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-883)      300, from 137 (Rev. 9-99)

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SOIL BORINGS SHEET 1 OF 2**  
**ILLINOIS ROUTE 33 OVER**  
**BIG SALT CREEK**  
**F.A.P. ROUTE 95**  
**SECTION 7B-1**  
**EFFINGHAM COUNTY**  
**STA. 146+62.50**  
**STRUCTURE NUMBER 025-0101**

DATE: APR, 2002      DRAWN BY: NJV  
 CHECKED BY: SJK

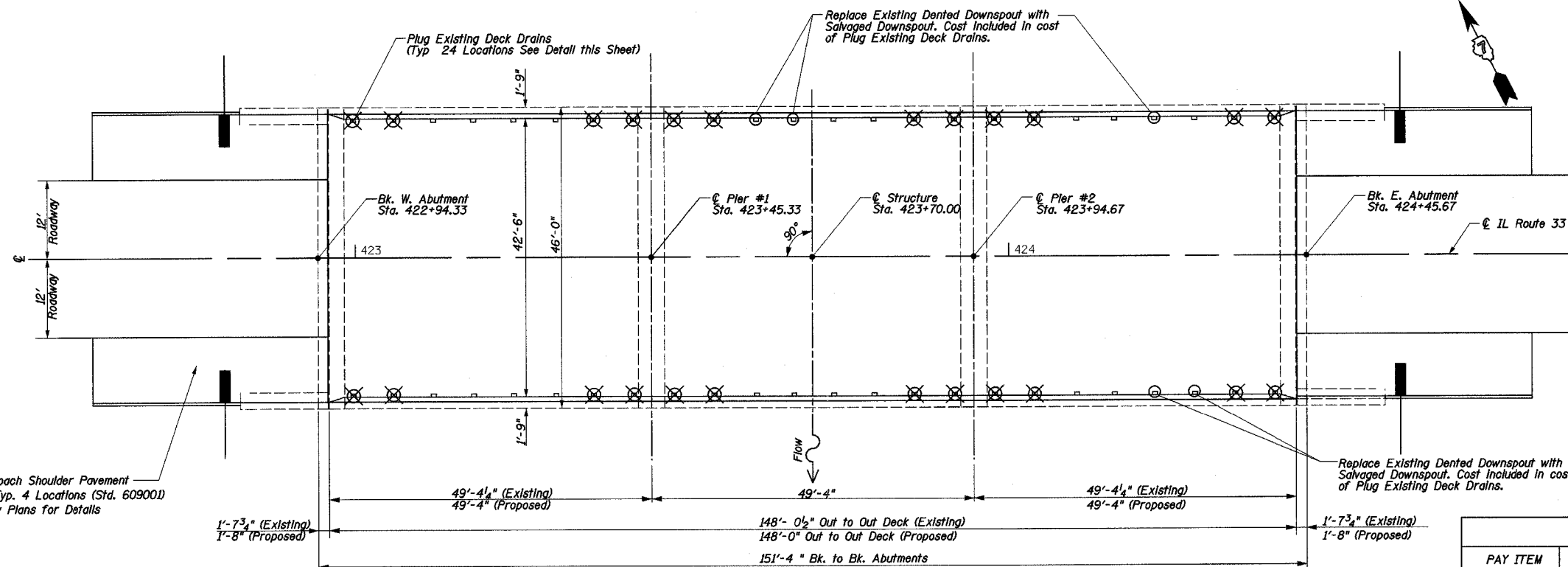
THE EXISTING STRUCTURE, BUILT IN 1973, IS A THREE SPAN P.P.C. I-BEAM BRIDGE WITH SOLID PIERS AND PILE CAP ABUTMENTS.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	TBR-2	EFFINGHAM	409	363
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 94356

SHEET NO. 1  
SHEETS 8



EXISTING PLAN

TOTAL BILL OF MATERIAL			
PAY ITEM	ITEM	UNIT	QUANTITY
44000910	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	654
50102400	CONCRETE REMOVAL	CU YD	31.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	31.2
50300260	BRIDGE DECK GROOVING	SQ YD	623
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4320
50800515	BAR SPLICERS	EACH	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	90
X0321468	PLUG EXISTING DECK DRAINS	EACH	24
Z0006110	BRIDGE DECK MICROSILICA CONCRETE OVERLAY	SQ YD	654
Z0006202	BRIDGE DECK HYDRO-SCARIFICATION 3/4"	SQ YD	654
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	22.6

GENERAL NOTES

This work shall be constructed in accordance with the plans, the Standard Specifications for Road and Bridge Construction adopted Jan. 1, 2007, and the Special Provisions included in the proposal.

The work included at this bridge consists of: Complete Removal and Replacement of the existing expansion joints, Deck Drain Plugging and Repair. Removal of the existing bituminous wearing surface and waterproofing membrane system, partial and full depth patching of the existing bridge deck, construction of the bridge deck microsilica concrete overlay, and any other work necessary to complete this rehabilitation.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

Following the removal of the bituminous surface and waterproofing, the bridge deck surface shall be scarified to a depth of 3/4". The bridge deck microsilica concrete overlay shall be constructed to a thickness of 2 1/4".

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

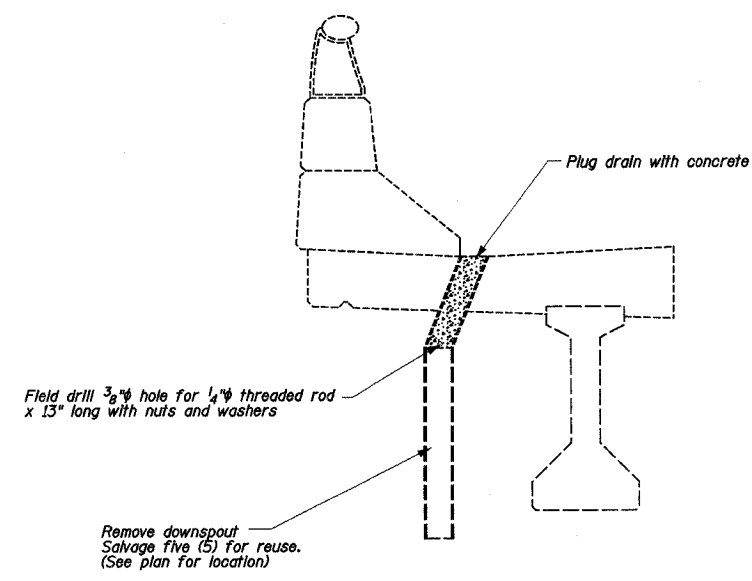
Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

All Structural Steel shall conform to AASHTO M270 Grade 36.

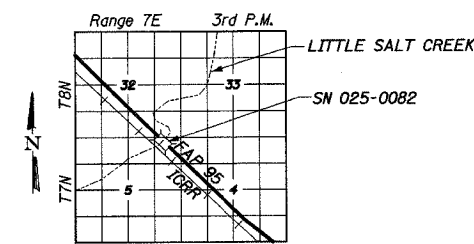
New Structural Steel shall be shop painted with Inorganic zinc-rich primer as per AASHTO M300, Type 1. Cost included in cost of Preformed Joint Strip Seal.

Work will be completed utilizing stage construction with one lane of IL Rte 33 open to traffic. See roadway stage construction drawings for traffic control details.

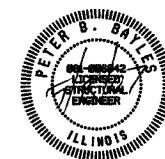
Reinforcement bars designated (E) shall be epoxy coated.



PLUG EXISTING DECK DRAIN DETAIL



LOCATION SKETCH



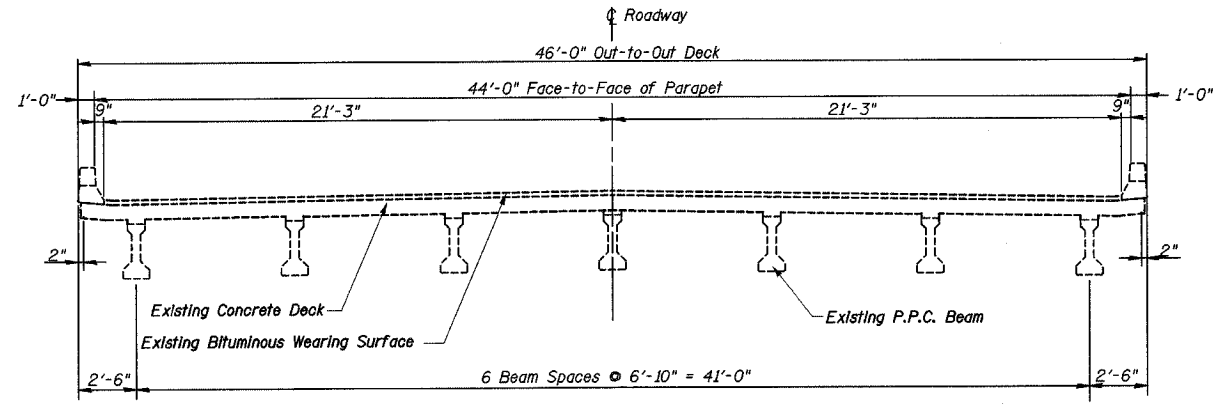
*Peter B. Bayles*  
Peter B. Bayles, P.E., S.E. Date  
Structural Engineer License No. 081-006042  
Expiration Date: 11/30/2008

GENERAL PLAN  
IL ROUTE 33 OVER  
LITTLE SALT CREEK  
F.A.P. 95 - SECTION TBR-2  
EFFINGHAM COUNTY  
SN 025-0082

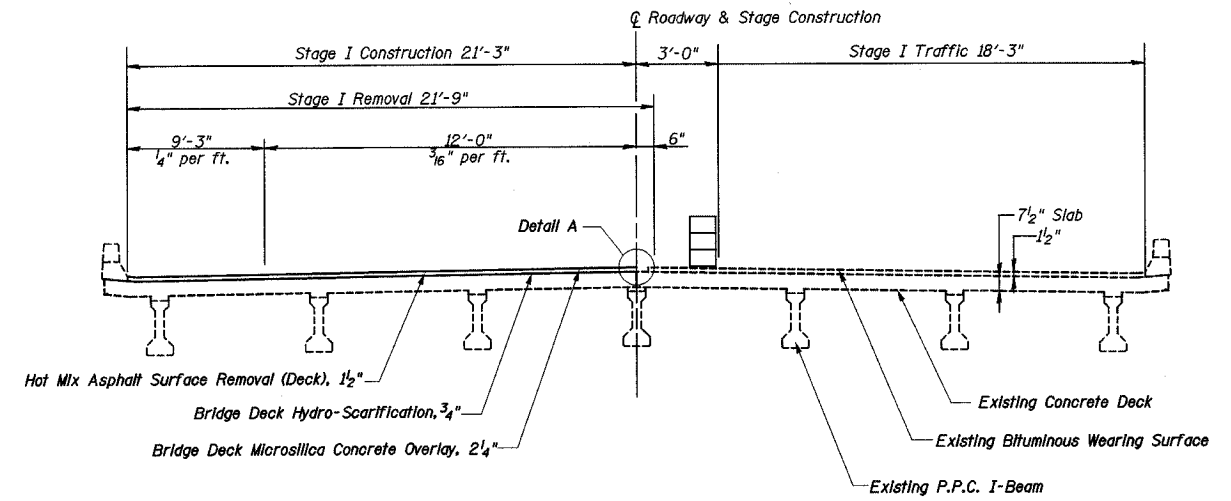
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7BR-2	EFFINGHAM	409	364
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 94356				

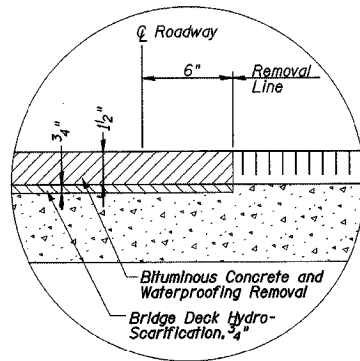
SHEET NO. 2  
SHEETS 8



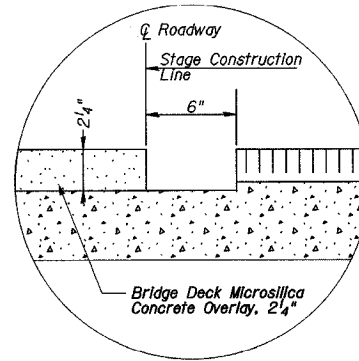
**EXISTING CROSS SECTION**  
(Looking East)



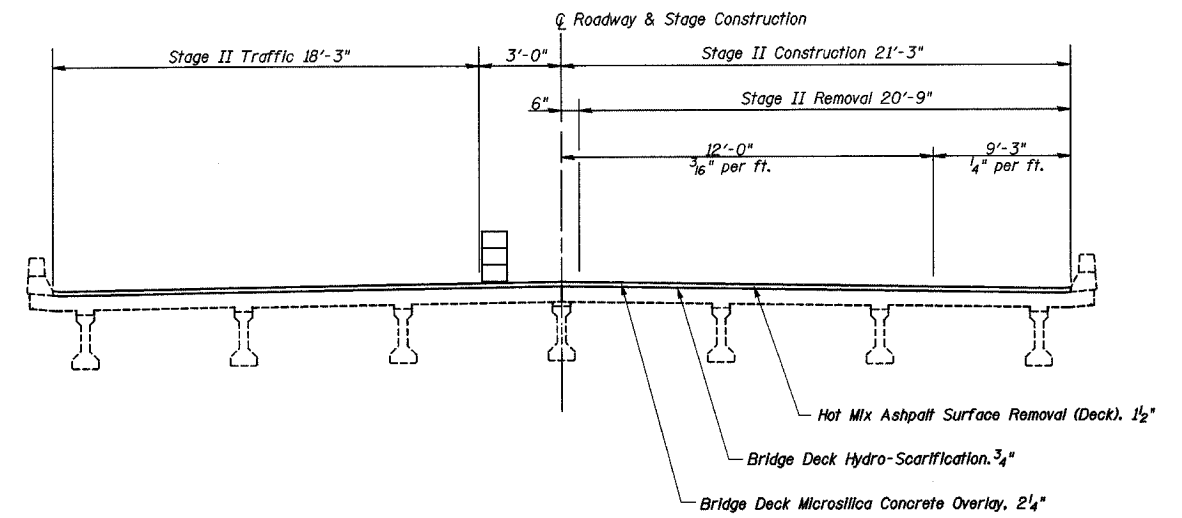
**STAGE I CROSS SECTION**  
(Looking East)



**DETAIL A**  
(Showing Stage I Removal)



**DETAIL A**  
(Showing Stage I Construction)



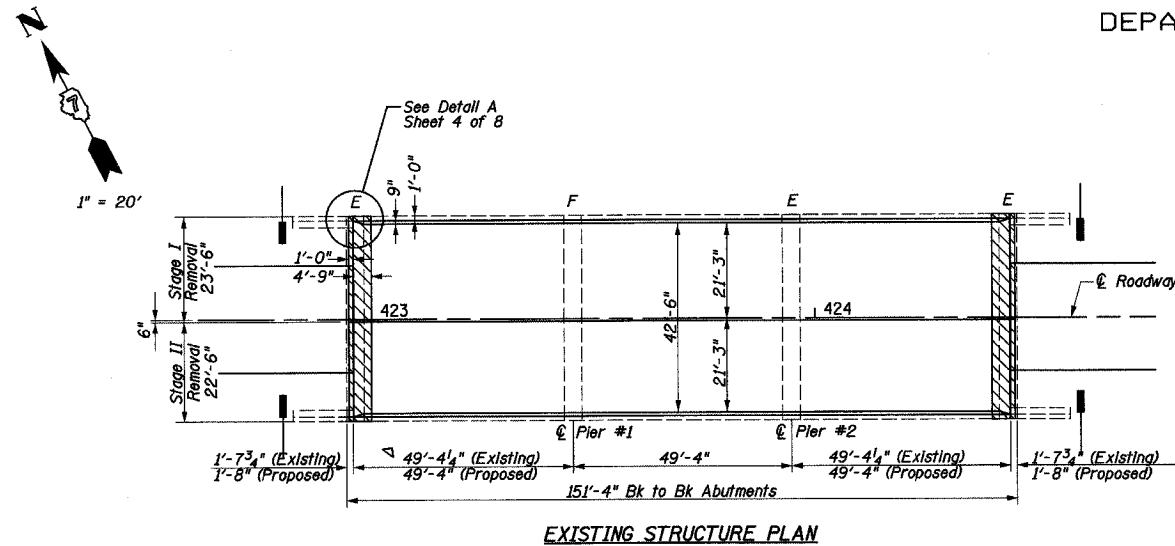
**STAGE II CROSS SECTION**  
(Looking East)

TYPICAL CROSS SECTIONS  
IL ROUTE 33 OVER  
LITTLE SALT CREEK  
F.A.P. 95 - SECTION 7BR-2  
EFFINGHAM COUNTY  
SN 025-0082

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

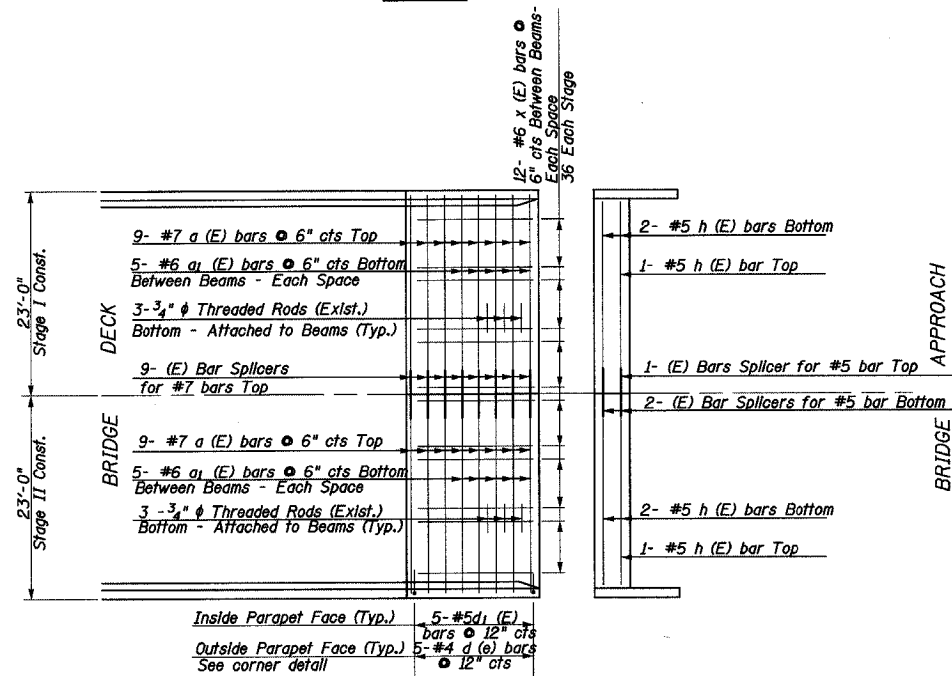
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7BR-2	EFFINGHAM	409	365
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 94356				

SHEET NO. 3  
SHEETS 8

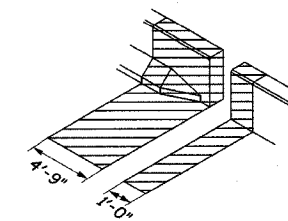


EXISTING STRUCTURE PLAN

Concrete Removal (See Isometric)

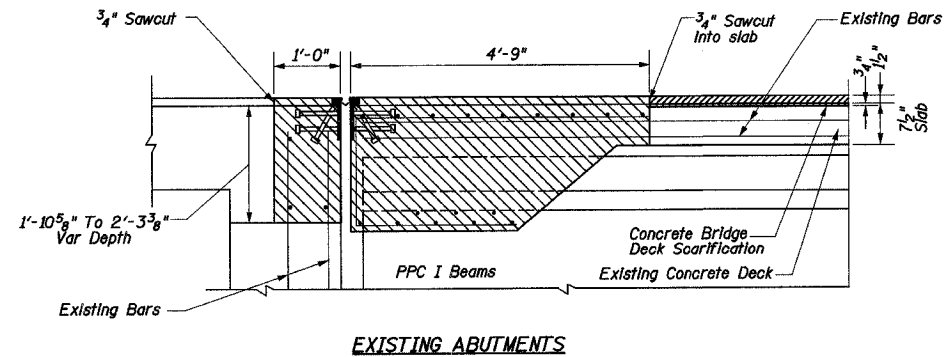


REINFORCEMENT DETAIL  
East Abutment (West Abutment Similar)



Typical Concrete Removal and Replacement At Each Abutment

CONCRETE REMOVAL ISOMETRIC

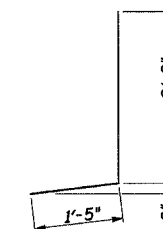


Note: Existing Longitudinal and Vertical Reinforcement Bars Extending Into the Removal Area Shall Be Cleaned, Straightened, and Incorporated Into the New Concrete.

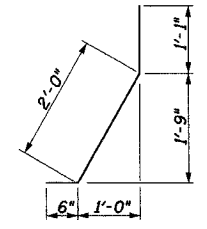
Contractor Shall use Extreme Care While Doing the Concrete Removal Over the Beams In Order Not to Damage the Top Flange of the PPC I Beams.

Concrete Removal (See Isometric)

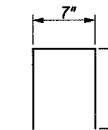
Hot Mix Asphalt Surface Removal (Deck)



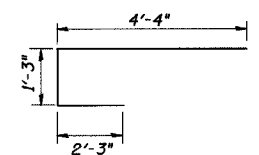
BAR d (E)



BAR d1 (E)



BAR d2 (E)



BAR x (E)

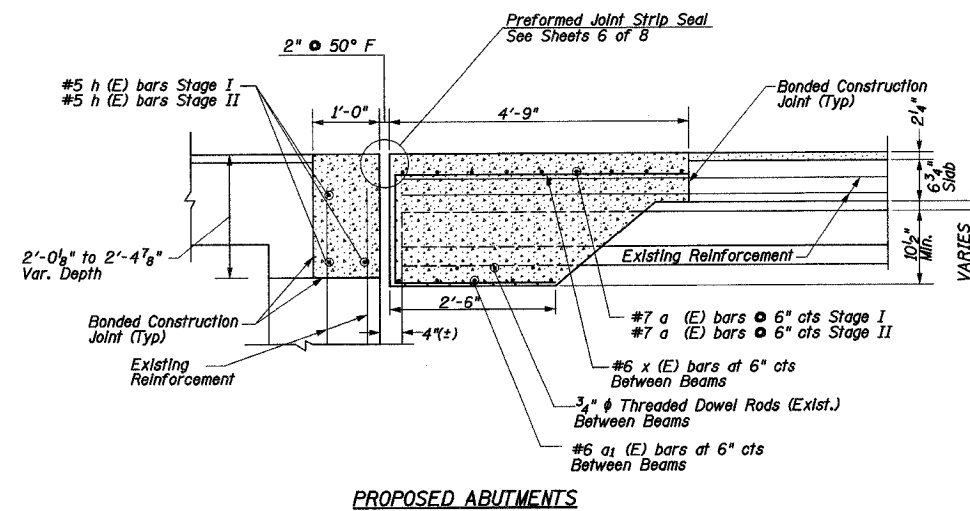
BAR LIST - EACH ABUTMENT

BAR	STAGE I	STAGE II	TOTALS	SIZE	LENGTH	SHAPE
a (E)	9	9	18	#7	22'-6"	—
a1 (E)	15	15	30	#6	6'-2"	┌┐
d (E)	5	5	10	#4	4'-2"	┌┐
d1 (E)	5	5	10	#5	3'-7"	┌┐
d2 (E)	2	2	4	#4	2'-1"	┌┐
h (E)	3	3	6	#5	21'-9"	┌┐
x (E)	36	36	72	#6	7'-10"	┌┐

BILL OF MATERIALS - BOTH ABUTMENTS

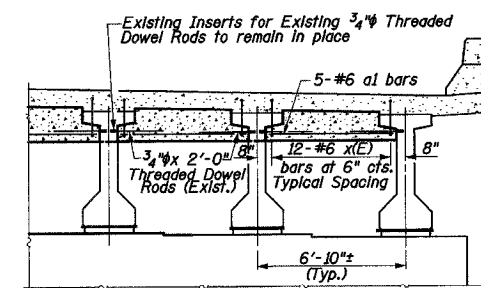
ITEM	UNIT	STAGE I	STAGE II	TOTAL
CONCRETE REMOVAL	CU YD	16.0	15.3	31.3
PREFORMED JOINT STRIP SEAL	FOOT	45	45	90
CONCRETE SUPERSTRUCTURE	CU YD	15.6	15.6	31.2
REINFORCEMENT BARS (EPOXY COATED)	POUND	2160	2160	4320
BAR SPLICERS	EACH	24	-	24

Dimensions are based on a Rolled Roll Strip Seal Joint. If the contractor elects to use the Welded Roll Strip Seal Joint deck dimensions may require adjustments to satisfy the details on Sheet 6 of 8.



Concrete Superstructure

Microsilica Concrete Overlay



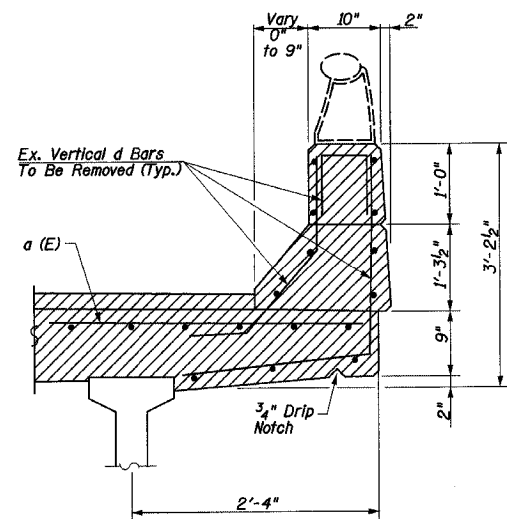
EXPANSION JOINT DETAILS  
IL ROUTE 33 OVER  
LITTLE SALT CREEK  
F.A.P. 95 - SECTION 7BR-2  
EFFINGHAM COUNTY  
SN 025-0082

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	TBR-2	EFFINGHAM	409	366
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 4  
SHEETS 8

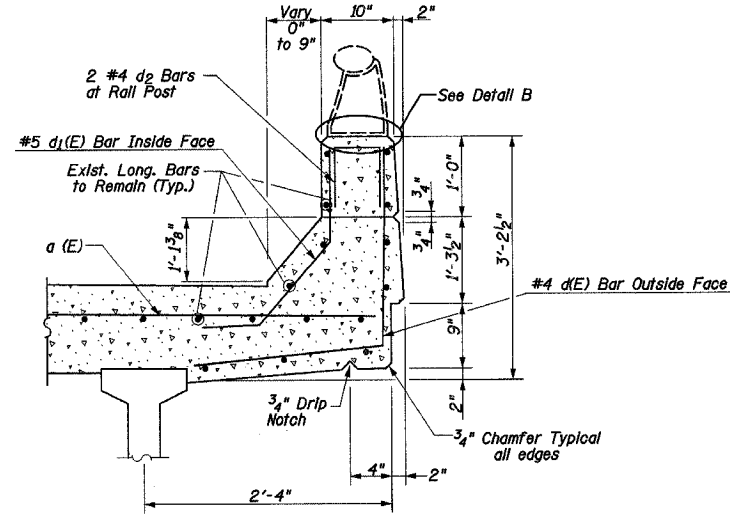
CONTRACT NO. 94356



EXISTING SECTION THROUGH PARAPET & SOFFIT

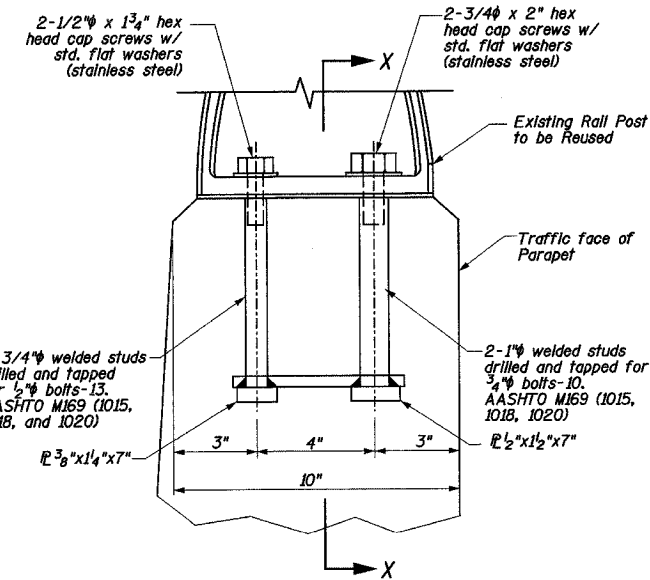
Concrete Removal  
(See Isometric on Sheet 3 of 8)

Note: For clarity only proposed reinforcement critical to parapet placement is shown.



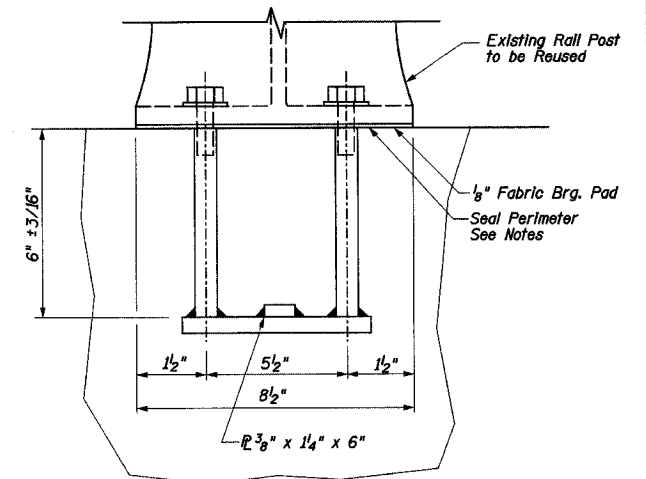
PROPOSED SECTION THROUGH PARAPET & SOFFIT

Concrete Superstructure

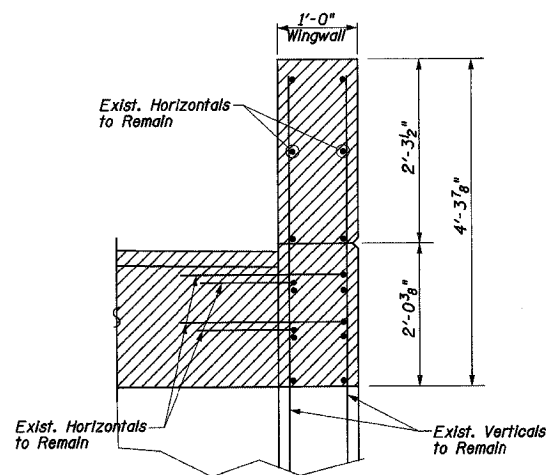


DETAIL B

Cost of Rail Post Anchorage Included in the Cost of "Concrete Superstructures"

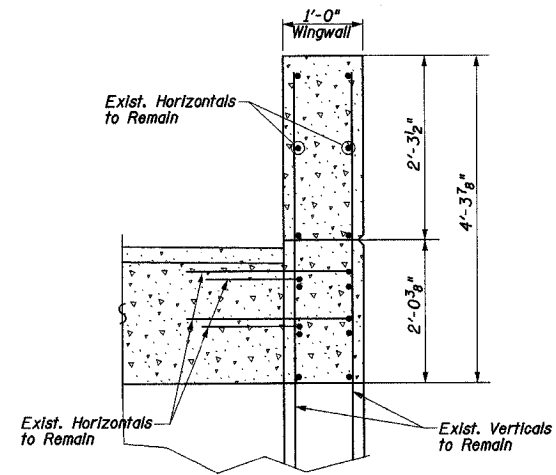


SECTION X-X



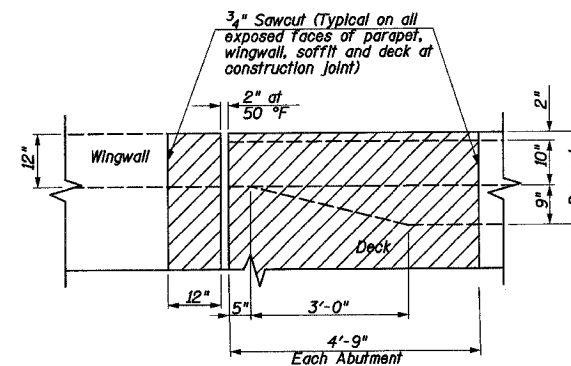
EXISTING SECTION THROUGH WINGWALL

Concrete Removal  
(See Isometric on Sheet 3 of 8)



PROPOSED SECTION THROUGH WINGWALL

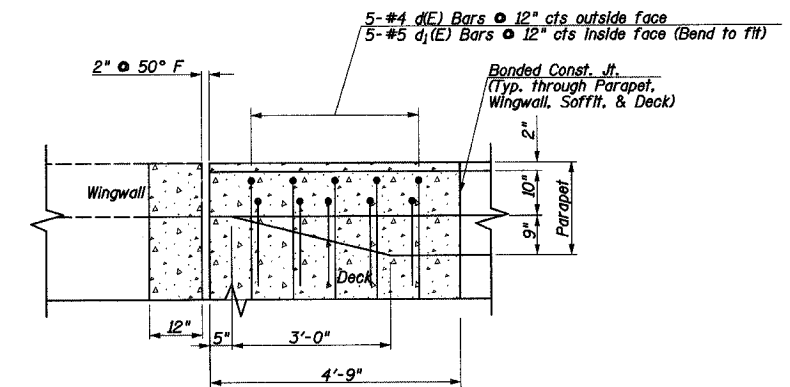
Concrete Superstructure



PLAN - CONCRETE REMOVAL

(Typical at Each Corner of Structure)

Concrete Removal  
(See Isometric on Sheet 3 of 8)



PLAN - CONCRETE REPLACEMENT

(Typical at Each Corner of Structure)

Concrete Superstructure

NOTES

EXISTING LONGITUDINAL REINFORCEMENT BARS AND THREADED DOWEL BARS SHALL BE CLEANED, STRAIGHTENED, AND USED FOR NEW CONSTRUCTION. EXISTING TRANSVERSE REINFORCEMENT BARS IN THE REMOVAL AREA SHALL BE REMOVED AND REPLACED. NEW REINFORCEMENT BARS AND BAR SPLICERS USED FOR STAGE CONSTRUCTION SHALL BE EPOXY COATED.

ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPAIRED OR REPLACED USING AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM (COST INCLUDED IN CONCRETE REMOVAL).

REMOVAL OF THE EXISTING EXPANSION JOINT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONCRETE REMOVAL.

INTERFERENCE IS EXPECTED FROM THE EXISTING ALUMINUM RAIL POSTS. THE CONTRACTOR MAY ELECT TO REMOVE AND RE-ERECT THE EXISTING BRIDGE RAIL AND POSTS TO COMPLETE THE WORK AS DETAILED. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING RAIL POSTS TO REMAIN. THE BASE OF THE RAIL POST SHALL BE SEALED WITH TWO COMPONENT NON-STAINING GRAY SEALING COMPOUND WITH POLYSULFIDE LIQUID POLYMERS-GUN GRADE WITH PRIMER. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR REMOVING AND REINSTALLING THE BRIDGE RAIL POST SHALL BE INCLUDED IN THE COST FOR "CONCRETE SUPERSTRUCTURE".

DETAIL A

EXPANSION JOINT DETAILS  
IL ROUTE 33 OVER  
LITTLE SALT CREEK  
F.A.P. 95 - SECTION TBR-2  
EFFINGHAM COUNTY  
SN 025-0082



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7BR-2	EFFINGHAM	409	367
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 5  
SHEETS 8

CONTRACT NO. 94356

*THIS SHEET HAS INTENTIONALLY BEEN LEFT BLANK*

*IL ROUTE 33 OVER  
LITTLE SALT CREEK  
F.A.P. 95 - SECTION 7BR-2  
EFFINGHAM COUNTY  
SN 025-0082*

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

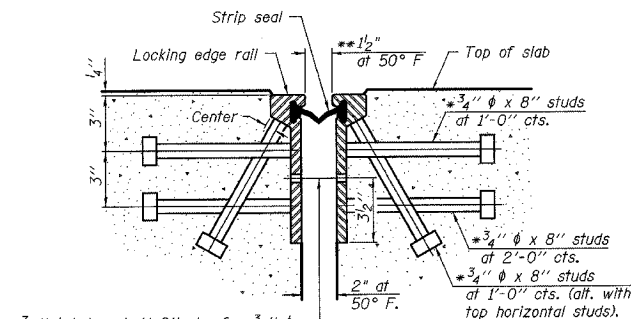
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7BR-2	EFFINGHAM	409	368
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6  
SHEETS 8

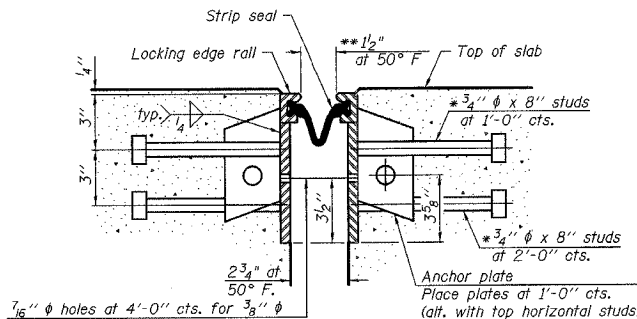
CONTRACT NO. 94356

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

\*\* When joint is fixed, dimension is set at 1 1/2".



7/16" diameter holes at 4'-0" cts. for 3/8" diameter bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



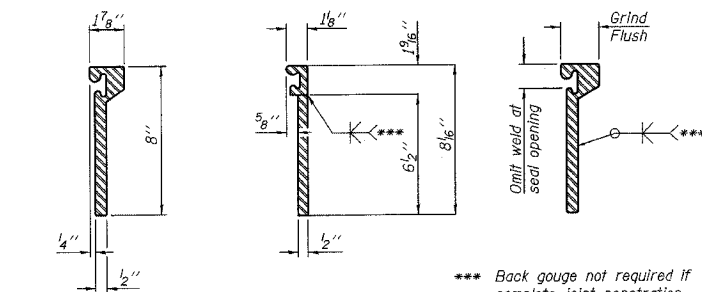
7/16" diameter holes at 4'-0" cts. for 3/8" diameter bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches. The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints. The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

SECTION THRU ROLLED RAIL JOINT

SECTION THRU WELDED RAIL JOINT

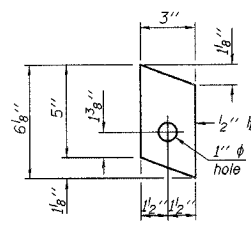


ROLLED (EXTRUDED) RAIL WELDED RAIL

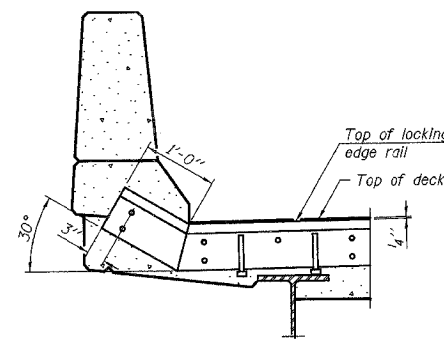
\*\*\* Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

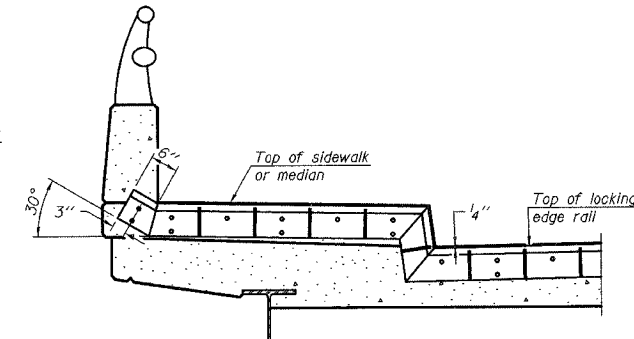
The inside of the locking edge rail groove shall be free of weld residue.



ANCHOR PLATE (for welded rail)



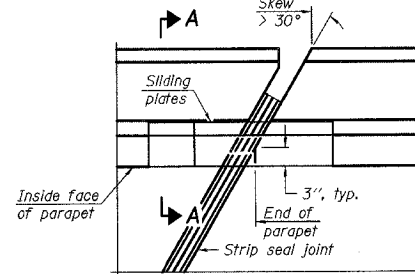
AT PARAPET



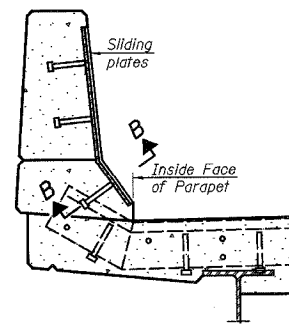
AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

LOCKING EDGE RAILS



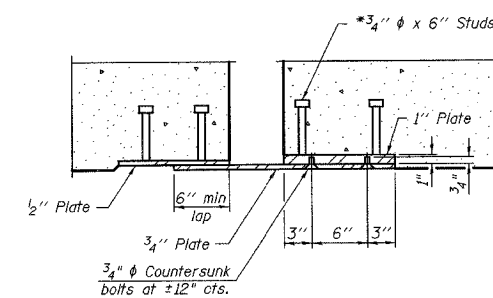
PLAN



SECTION A-A

POINT BLOCK DETAILS (for skews > 30°)

TYPICAL END TREATMENTS



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	90

BRIDGE JOINT SYSTEM - EXPANSION  
(ALTERNATE - STRIP SEAL)  
SHEET 2 OF 2  
IL ROUTE 33 OVER  
LITTLE SALT CREEK  
F.A.P. 95 - SECTION 7BR-2  
EFFINGHAM COUNTY  
SN 025-0082

EJ-SSJ

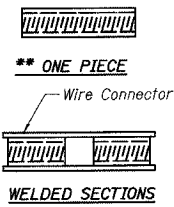
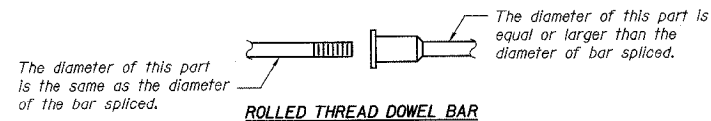
11-1-06

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	TBR-2	EFFINGHAM	409	369
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

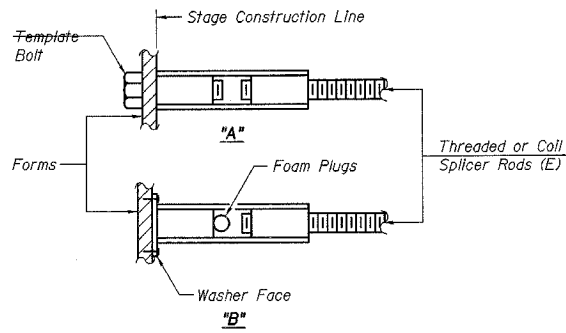
CONTRACT NO. 94356

SHEET NO. 7  
SHEETS 8



**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



**INSTALLATION AND SETTING METHODS**

"A": Set bar splicer assembly by means of a template bolt.  
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E) : Indicates epoxy coating.

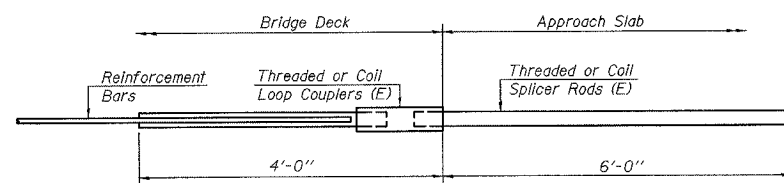
**NOTES**

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) =  $1.25 \times f_y \times A_t$
- ② Minimum \*Pull-out Strength (Tension in kips) =  $0.66 \times f_y \times A_t$

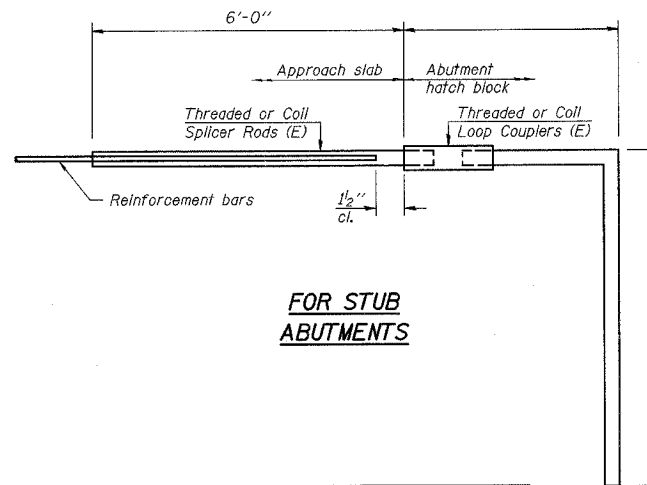
Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



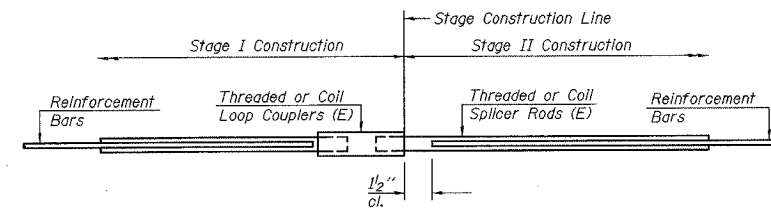
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



**FOR STUB ABUTMENTS**

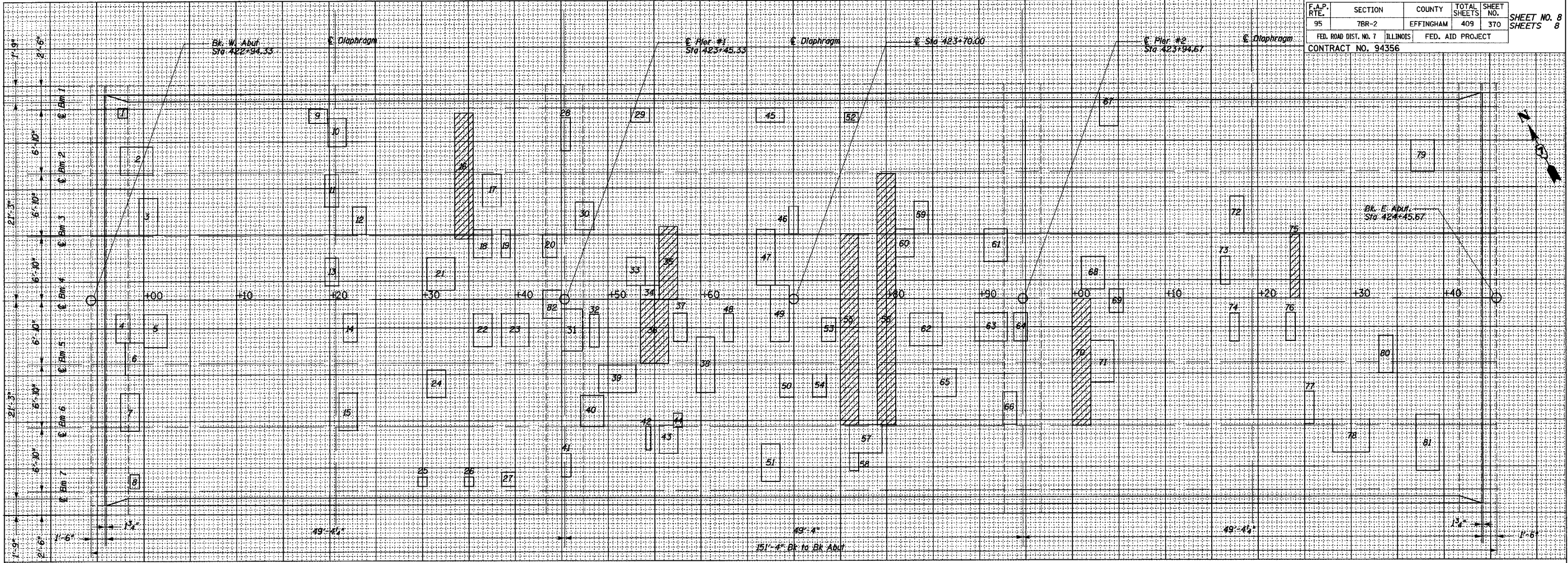
Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



**STANDARD**

Bar Size	No. Assemblies Required	Location
#5	6	Abutments
#7	18	Slab

**BAR SPLICER ASSEMBLY DETAILS**  
**IL ROUTE 33 OVER**  
**LITTLE SALT CREEK**  
**F.A.P. 95 - SECTION TBR-2**  
**EFFINGHAM COUNTY**  
**SN 025-0082**



DATE \*  
DCN-SPEC

PATCH NO.	SIZE (FT X FT)	DECK SLAB REPAIR (PARTIAL DEPTH)		DECK SLAB REPAIR (FULL DEPTH TY 1)		DECK SLAB REPAIR (FULL DEPTH TY 2)	
		SQ YD		SQ YD		SQ YD	
1	1 X 1	0.1					
2	3.5 X 3	1.2					
3	2 X 4	0.9					
4	1.5 X 3	0.5					
5	2.5 X 3.5	1.0					
6	2 X 3.5	0.8					
7	2 X 4	0.9					
8	1 X 1.5	0.2					
9	2 X 1.5	0.3					
10	2 X 3	0.7					
11	1.5 X 3.5	0.6					
12	1.5 X 3	0.5					
13	1.5 X 3	0.5					
14	1.5 X 3	0.5					
15	2 X 4	0.9					
16	2 X 12.5					2.8	
17	2 X 3.5	0.8					
18	2 X 3	0.7					
19	1 X 3	0.3					
20	1.5 X 2.5	0.4					
21	3 X 3.5					1.2	
22	2 X 3.5	0.8					
23	3 X 3.5	1.2					

PATCH NO.	SIZE (FT X FT)	DECK SLAB REPAIR (PARTIAL DEPTH)		DECK SLAB REPAIR (FULL DEPTH TY 1)		DECK SLAB REPAIR (FULL DEPTH TY 2)	
		SQ YD		SQ YD		SQ YD	
24	2 X 3	0.7					
25	1 X 1	0.1					
26	1 X 1	0.1					
27	1.5 X 1.5	0.3					
28	1 X 3.5	0.4					
29	2 X 1.5	0.3					
30	2 X 3	0.7					
31	2 X 4.5	1.0					
32	1 X 3.5	0.4					
33	2 X 3	0.7					
34	2 X 1.5	0.3					
35	2 X 8				1.8		
36	3 X 6.8				2.3		
37	1.5 X 3	0.5					
38	2 X 6	1.3					
39	4 X 3	1.3					
40	2.5 X 3.5	1.0					
41	1 X 2.5	0.3					
42	0.5 X 2.5	0.1					
43	2 X 3	0.7					
44	1 X 1.5	0.2					
45	3 X 1.5	0.5					
46	1 X 3	0.3					

PATCH NO.	SIZE (FT X FT)	DECK SLAB REPAIR (PARTIAL DEPTH)		DECK SLAB REPAIR (FULL DEPTH TY 1)		DECK SLAB REPAIR (FULL DEPTH TY 2)	
		SQ YD		SQ YD		SQ YD	
47	2 X 6	1.3					
48	1 X 3	0.3					
49	2 X 6	1.3					
50	1.5 X 2.5	0.4					
51	2 X 4	0.9					
52	1.5 X 1	0.2					
53	1.5 X 2.5	0.4					
54	1.5 X 2.5	0.4					
55	2 X 20.5				4.6		
56	2 X 27.5				6.1		
57	3.5 X 3	1.2					
58	1 X 2	0.2					
59	1.5 X 3.5	0.6					
60	2 X 3	0.7					
61	2.5 X 3.5	1.0					
62	3.5 X 3.5	1.4					
63	3.5 X 3	1.2					
64	1.5 X 3	0.5					
65	2.5 X 3	0.8					
66	1.5 X 3.5	0.6					
67	2 X 3.5	0.8					
68	2.5 X 3.5	1.0					
69	1.5 X 2.5	0.4					

PATCH NO.	SIZE (FT X FT)	DECK SLAB REPAIR (PARTIAL DEPTH)		DECK SLAB REPAIR (FULL DEPTH TY 1)		DECK SLAB REPAIR (FULL DEPTH TY 2)	
		SQ YD		SQ YD		SQ YD	
70	2 X 13.5	1.3				3.0	
71	2.5 X 4.5	1.3					
72	1.5 X 4	0.7					
73	1 X 3	0.3					
74	1 X 3	0.3					
75	1 X 6.8					0.8	
76	1 X 3	0.3					
77	1 X 3.5	0.4					
78	4 X 3.5	1.6					
79	2.5 X 3.3	0.9					
80	1.5 X 4	0.7					
81	2 X 6	1.7					
82	2 X 2	0.4					
TOTALS		49.2	0	22.6			

PATCH NO.	SIZE (FT X FT)	DECK SLAB REPAIR (PARTIAL DEPTH)		DECK SLAB REPAIR (FULL DEPTH TY 1)		DECK SLAB REPAIR (FULL DEPTH TY 2)	
		SQ YD		SQ YD		SQ YD	

**PATCHING LEGEND**

Partial Depth (For Information Only)

Full Depth

The sizes shown graphically above are approximate. See table for actual sizes.

Areas of deck repairs shown are estimated. Actual areas of Deck Repair will vary in field. The engineer shall show actual locations of deck repairs on as-built plans.

**BRIDGE DECK PATCHING**  
**IL ROUTE 33 OVER**  
**LITTLE SALT CREEK**  
**F.A.P. 95 - SECTION 7BR-2**  
**EFFINGHAM COUNTY**  
**SN 025-0082**

**Benchmark:** RR Spike in 2nd Utility Pole East of Existing Structure (No. 025-0037) on North side of IL Route 33. Elev. 581.69.

**Existing structure:** Structure number 025-0037 was built in 1925 as SBI Route 33, Section 6B. The superstructure was replaced and substructure was widened in 1974 as Section 6BR-2. The existing structure is 33'-0" out-to-out of deck, 48'-6" back-to-back of abutments. It has 21" precast concrete deck beams with closed abutments on timber piling. The existing structure shall be removed and replaced using staged construction. No salvage.

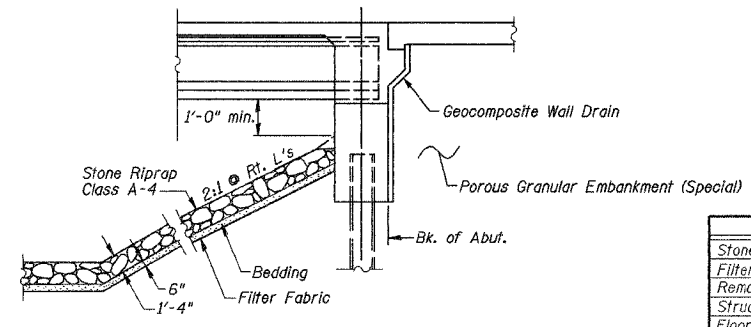
**Traffic Management:** One lane of traffic shall be maintained at all times using staged construction.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	6B-1	EFFINGHAM	409	371
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 94356				

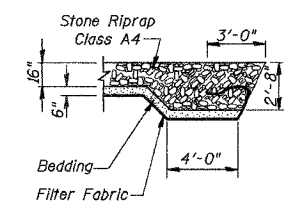
SHEET NO. 1  
SHEETS 12

**TOTAL BILL OF MATERIAL**

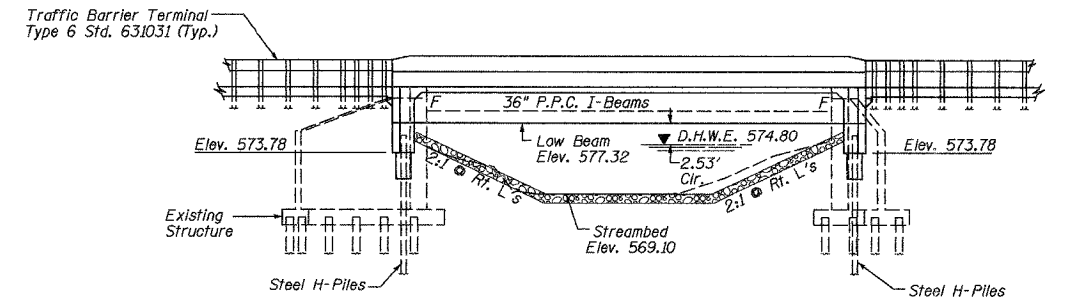
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		429	429
Filter Fabric	Sq Yd		429	429
Removal of Existing Structure, No 2	Each		1	1
Structure Excavation	Cu Yd		80	80
Floor Drains	Each	6		6
Concrete Structures	Cu Yd		36.9	36.9
Concrete Superstructure	Cu Yd	95.6		95.6
Bridge Deck Grooving	Sq Yd	228		228
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	Foot	318		318
Reinforcement Bars, Epoxy Coated	Pound	17470	4760	22230
Furnishing Steel Piles HP 10x42	Foot		540	540
Driving Piles	Foot		540	540
Test Pile Steel HP 10x42	Each		1	1
Temporary Soil Retention System	Sq Ft		532	532
Name Plates	Each		1	1
Bar Splicers	Each	274	20	294
Porous Granular Embankment (Special)	Cu Yd		412	412
Geocomposite Wall Drain	Sq Yd		84	84



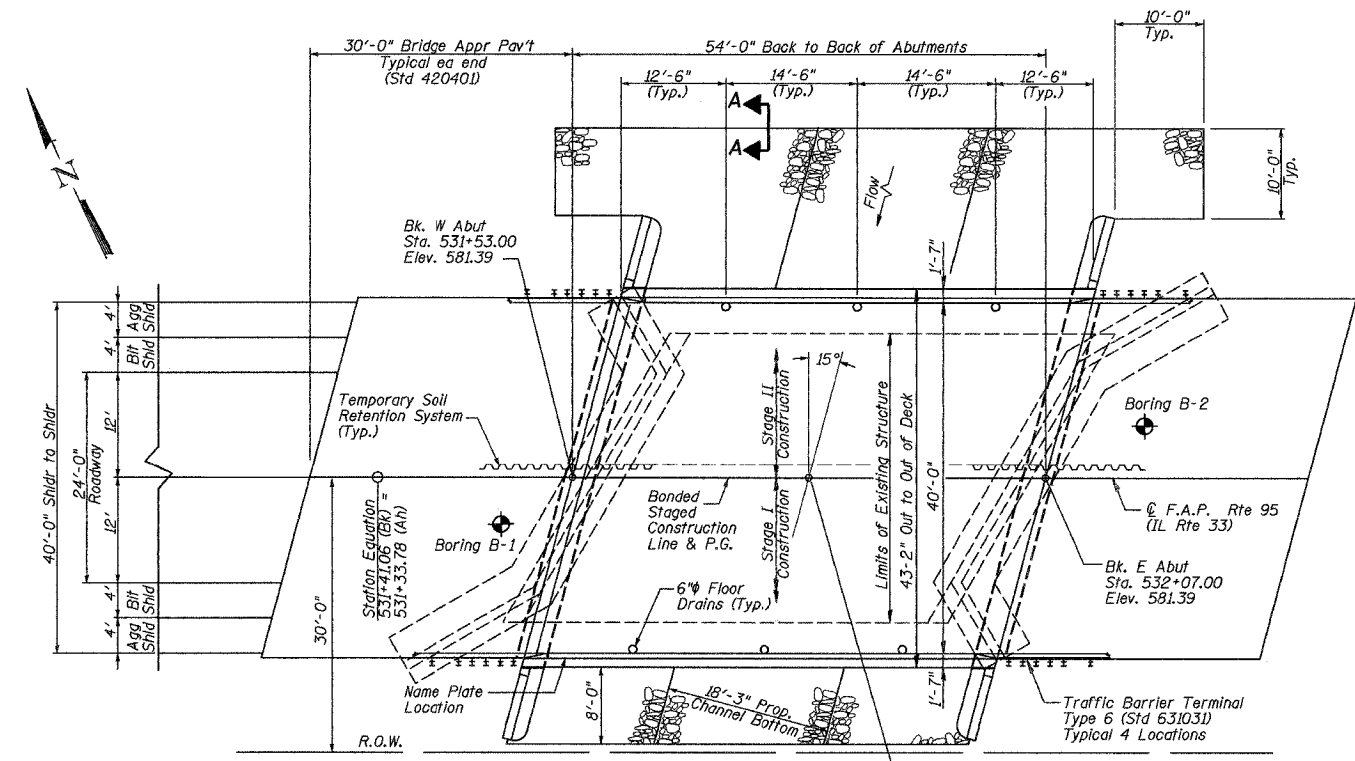
**SECTION THRU INTEGRAL ABUTMENT**  
(Showing Riprap)



**SECTION A-A**



**ELEVATION**



**PLAN**

STATION 531+80.00  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. RTE. 95 SECTION 6B-1  
LOADING HS20  
STR. NO. 025-0097  
**NAME PLATE**  
See Std. 515001

**SEISMIC DATA**

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.075g  
Site Coefficient (S) = 1.0

**DESIGN SPECIFICATIONS**

1996 AASHTO with 1997, 1998, 1999, and 2000 Interims

**LOADING HS20-44**

Allow 50#/#sq. ft. for future wearing surface.

**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinf.)

**PRECAST PRESTRESSED UNITS**

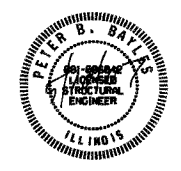
$f'_c = 6,000$  psi  
 $f'_ci = 5,000$  psi  
 $f'_s = 270,000$  psi ( $\frac{1}{2}$ "  $\phi$  Low Relax. strands)  
 $f'_{si} = 201,960$  psi ( $\frac{1}{2}$ "  $\phi$  Low Relax. strands)

**GENERAL NOTES**

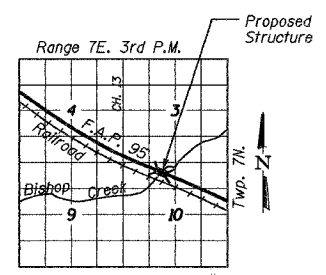
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.  
Reinforcement Bars designated (E) shall be epoxy coated.  
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations of substructures specified or approved by the Engineer before ordering the remainder of piles.  
All embedded and separate bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 (as applicable).  
H.S. bolts in bearing assembly shall be galvanized according to AASHTO M298 Class 50.

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY.

*Robert E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



*Peter B. Bayles* s/d/07  
Peter B. Bayles, P.E., S.E. Date  
Structural Engineer License No. 081-006042  
Expiration Date: 11/30/2008



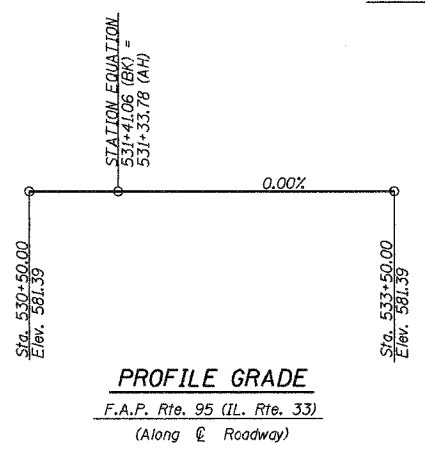
**LOCATION SKETCH**

**WATERWAY INFORMATION**

Drainage Area = 3.6 sq.m. Low Grade Elev. = 581.05

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E. Ft.	Head-Ft.		Headwater Elev. - Ft.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	470	101	130	573.8	0.3	0.0	574.1	573.8
Base	50	700	143	171	574.8	0.2	0.0	575.0	574.8
Overtopping	100	800	158	186	575.2	0.2	0.0	575.4	575.2
Max. Calc.	500	1020	188	219	575.9	0.3	0.0	576.2	575.9

Maximum Highwater Elevation Unknown



**PROFILE GRADE**  
F.A.P. Rte. 95 (IL Rte. 33)  
(Along  $\phi$  Roadway)

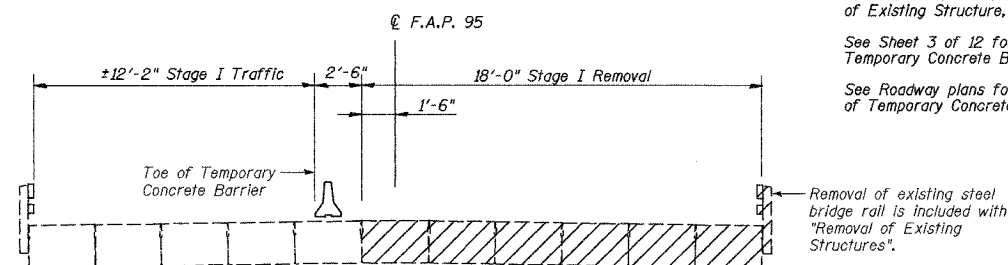
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GENERAL PLAN**  
ILLINOIS ROUTE 33 OVER  
BISHOP CREEK  
F.A.P. RTE. 95  
SECTION 6B-1  
EFFINGHAM COUNTY  
Sta. 531+80  
STRUCTURE NUMBER 025-0097  
DATE: APR. 2002 DRAWN BY: MLR CHECKED BY: SJK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	6B-1	EFFINGHAM	409	372
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

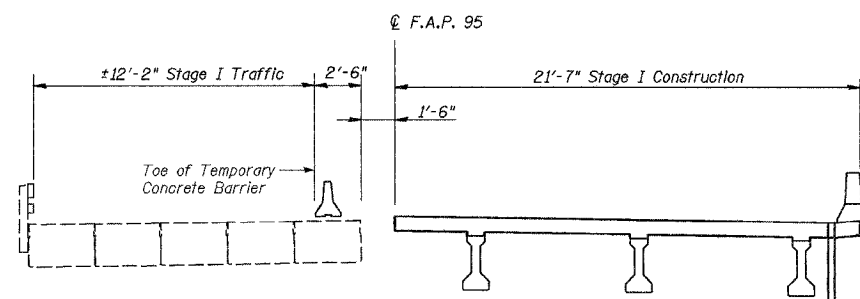
SHEET NO. 2  
SHEETS 12

CONTRACT NO. 94356

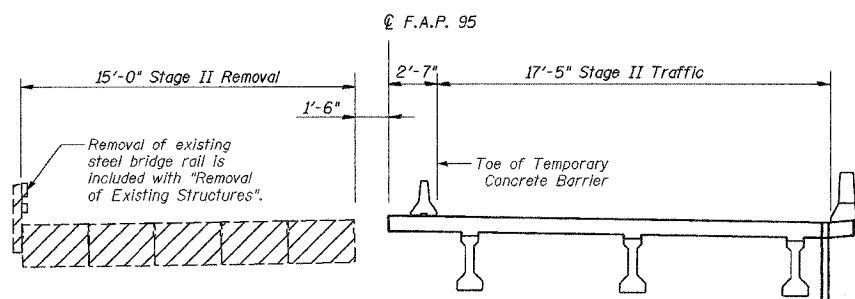
**Notes:**  
Hatched areas indicate "Removal of Existing Structure, No. 2".  
See Sheet 3 of 12 for details of Temporary Concrete Barrier.  
See Roadway plans for quantity of Temporary Concrete Barrier.



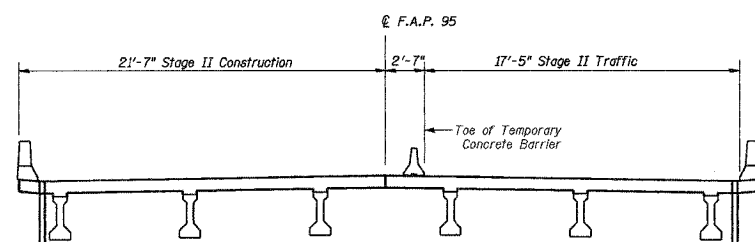
**STAGE I REMOVAL**  
(Looking East)



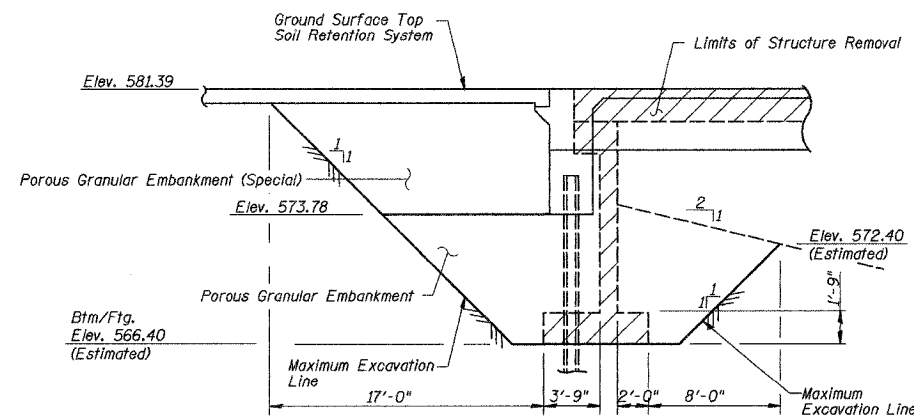
**STAGE I CONSTRUCTION**  
(Looking East)



**STAGE II REMOVAL**  
(Looking East)



**STAGE II CONSTRUCTION**  
(Looking East)



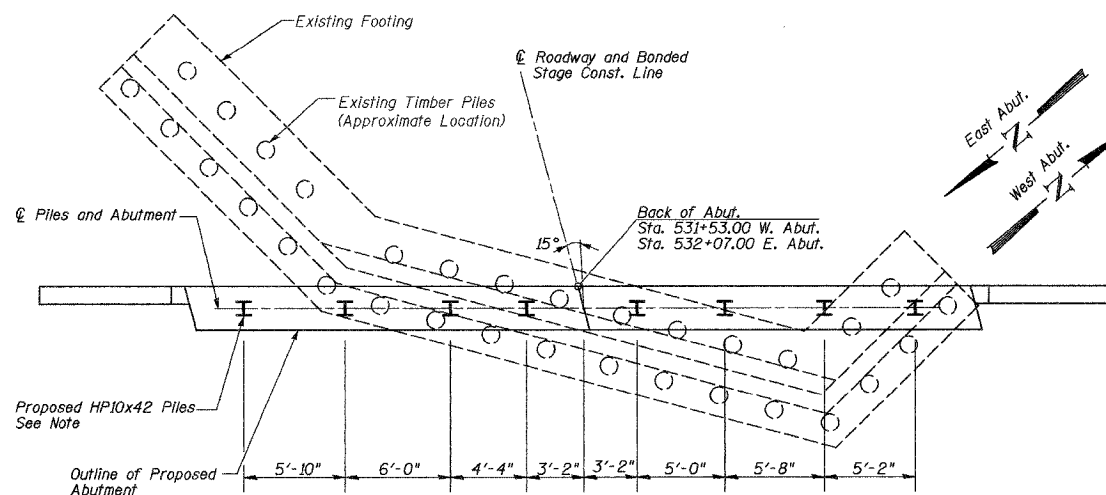
**TEMPORARY SOIL RETENTION SYSTEM**

(West Abutment Shown, East Abutment Similar)  
All dimensions are at right <'s to proposed abutment unless otherwise noted.

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

The Contractor shall remove soil behind existing abutment prior to removing superstructure.

The porous granular embankment (special) shall extend 2'-0" from the end of each wingwall.



**PILE LAYOUT**

**Notes:**

Contractor to excavate to bottom of existing footing and drive piles to miss existing timber piles. Piles may be moved up to one foot (1') in either direction along axis of &#96; of piles. Contractor to coat exposed piles with bitumin from the bottom of the existing footing to the bottom of abutment. Cost of bitumin included in cost of "Driving Piles". Backfill with Porous Granular Embankment to the bottom of abutment cap Elev. 573.78. Cost of Porous Granular Embankment included with Removal of Existing Structure, No. 2. Embankment cone for each stage of construction shall be built prior to constructing abutment cap.

The cost of the excavation required to excavate to the bottom of the footing in required locations shall be included with "Removal of Existing Structures".

See Sheet 9 of 12 for Abutment Details.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
STAGE CONSTRUCTION  
ILLINOIS ROUTE 33 OVER  
BISHOP CREEK  
F.A.P. RTE. 95  
SECTION 6B-1  
EFFINGHAM COUNTY  
Sta. 531+80  
STRUCTURE NUMBER 025-0097

DATE: APR. 2002

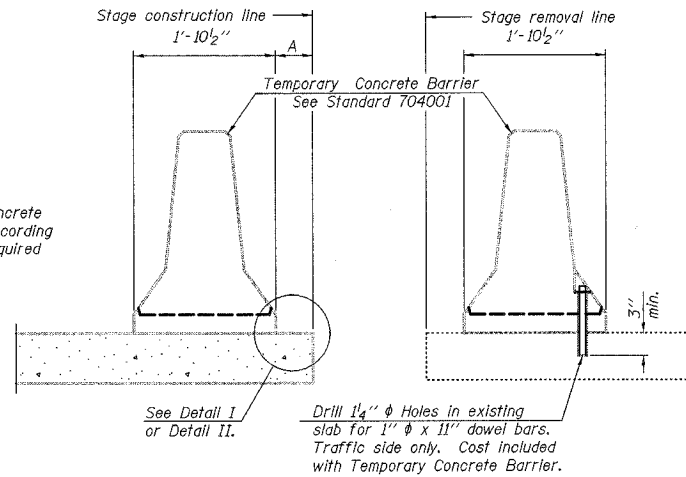
DRAWN BY: BDM  
CHECKED BY: SJK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	6B-1	EFFINGHAM	409	373
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 3  
SHEETS 12

CONTRACT NO. 94356

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB

EXISTING SLAB

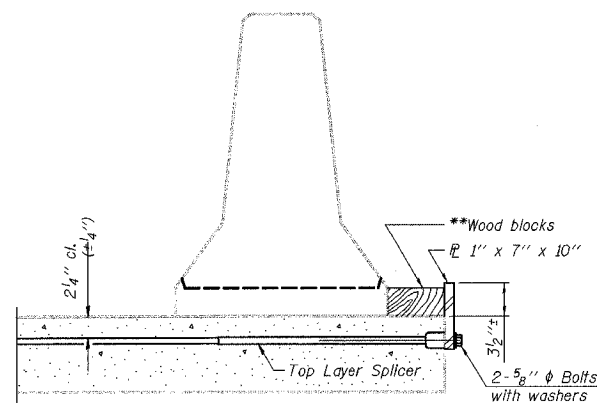
SECTIONS THRU SLAB

NOTES

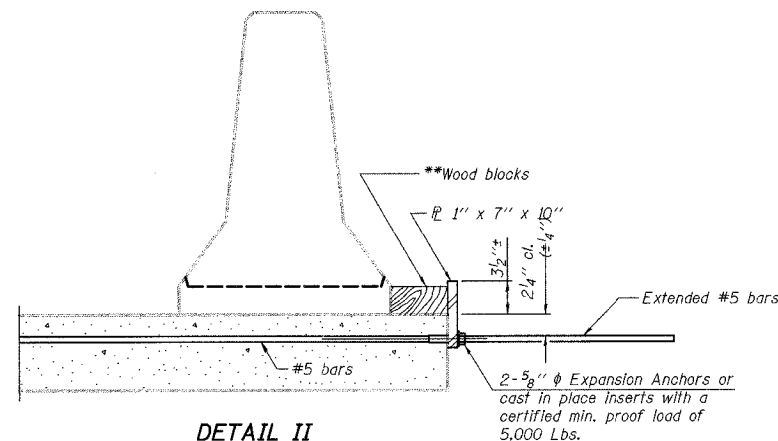
**Detail I - With Bar Splicer or Couplers:**  
Connect one (1) 1"x7"x10" steel  $\bar{L}$  to the top layer of couplers with 2- $\frac{5}{8}$ "  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

**Detail II - With Extended Reinforcement Bars:**  
Connect one (1) 1"x7"x10" steel  $\bar{L}$  to the concrete slab with 2- $\frac{5}{8}$ "  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

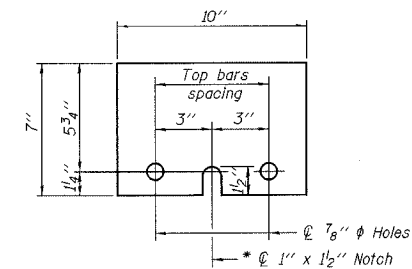


DETAIL I



DETAIL II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



STEEL RETAINER  $\bar{L}$  1" x 7" x 10"

\* Required only with Detail II

R-27

11-1-06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TEMPORARY CONCRETE BARRIER  
ILLINOIS ROUTE 33 OVER  
BISHOP CREEK  
F.A.P. RTE. 95  
SECTION 6B-1  
EFFINGHAM COUNTY  
Sta. 531+80  
STRUCTURE NUMBER 025-0097

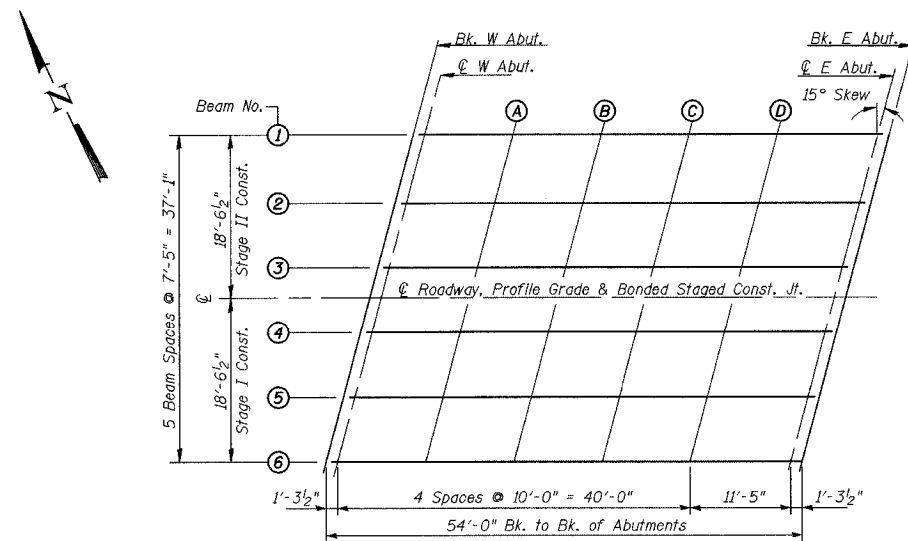
DATE: APR. 2002

DRAWN BY: BDM  
CHECKED BY: SJK

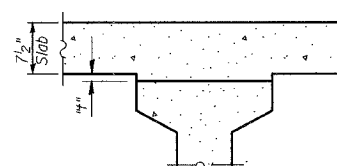
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	6B-1	EFFINGHAM	409	374
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 4  
SHEETS 12

CONTRACT NO. 94356

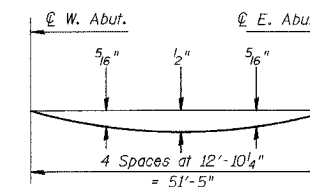


PLAN



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" minus slab thickness, equals the fillet heights "t" above flanges of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams)

Note: The above deflections are not for use in the field if the Engineer is working from the Theoretical Grade Elevations Adjusted for Dead Load Deflections as shown below.

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	531+57.97	18.54' Lt.	581.07	581.07
☉ W. Abut.	531+59.26	18.54' Lt.	581.07	581.07
A	531+69.26	18.54' Lt.	581.07	581.09
B	531+79.26	18.54' Lt.	581.07	581.10
C	531+89.26	18.54' Lt.	581.07	581.10
D	531+99.26	18.54' Lt.	581.07	581.09
☉ E. Abut.	532+10.68	18.54' Lt.	581.07	581.07
Bk. E. Abut.	532+11.97	18.54' Lt.	581.07	581.07

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	531+55.98	11.13' Lt.	581.22	581.22
☉ W. Abut.	531+57.27	11.13' Lt.	581.22	581.22
A	531+67.27	11.13' Lt.	581.22	581.24
B	531+77.27	11.13' Lt.	581.22	581.25
C	531+87.27	11.13' Lt.	581.22	581.25
D	531+97.27	11.13' Lt.	581.22	581.24
☉ E. Abut.	532+08.69	11.13' Lt.	581.22	581.22
Bk. E. Abut.	532+09.98	11.13' Lt.	581.22	581.22

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	531+53.99	3.71' Lt.	581.33	581.33
☉ W. Abut.	531+55.28	3.71' Lt.	581.33	581.33
A	531+65.28	3.71' Lt.	581.33	581.36
B	531+75.28	3.71' Lt.	581.33	581.37
C	531+85.28	3.71' Lt.	581.33	581.37
D	531+95.28	3.71' Lt.	581.33	581.36
☉ E. Abut.	532+06.70	3.71' Lt.	581.33	581.33
Bk. E. Abut.	532+07.99	3.71' Lt.	581.33	581.33

☉ ROADWAY, PROFILE GRADE & STAGED CONST. JT.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	531+53.00	0.00	581.39	581.39
☉ W. Abut.	531+54.29	0.00	581.39	581.39
A	531+64.29	0.00	581.39	581.41
B	531+74.29	0.00	581.39	581.43
C	531+84.29	0.00	581.39	581.43
D	531+94.29	0.00	581.39	581.42
☉ E. Abut.	532+05.71	0.00	581.39	581.39
Bk. E. Abut.	532+07.00	0.00	581.39	581.39

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	531+52.01	3.71' Rt.	581.33	581.33
☉ W. Abut.	531+53.30	3.71' Rt.	581.33	581.33
A	531+63.30	3.71' Rt.	581.33	581.36
B	531+73.30	3.71' Rt.	581.33	581.37
C	531+83.30	3.71' Rt.	581.33	581.37
D	531+93.30	3.71' Rt.	581.33	581.36
☉ E. Abut.	532+04.72	3.71' Rt.	581.33	581.33
Bk. E. Abut.	532+06.01	3.71' Rt.	581.33	581.33

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	531+50.02	11.13' Rt.	581.22	581.22
☉ W. Abut.	531+51.31	11.13' Rt.	581.22	581.22
A	531+61.31	11.13' Rt.	581.22	581.24
B	531+71.31	11.13' Rt.	581.22	581.25
C	531+81.31	11.13' Rt.	581.22	581.25
D	531+91.31	11.13' Rt.	581.22	581.24
☉ E. Abut.	532+02.73	11.13' Rt.	581.22	581.22
Bk. E. Abut.	532+04.02	11.13' Rt.	581.22	581.22

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	531+48.03	18.54' Rt.	581.07	581.07
☉ W. Abut.	531+49.32	18.54' Rt.	581.07	581.07
A	531+59.32	18.54' Rt.	581.07	581.09
B	531+69.32	18.54' Rt.	581.07	581.10
C	531+79.32	18.54' Rt.	581.07	581.10
D	531+89.32	18.54' Rt.	581.07	581.09
☉ E. Abut.	532+00.74	18.54' Rt.	581.07	581.07
Bk. E. Abut.	532+02.03	18.54' Rt.	581.07	581.07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TOP OF SLAB ELEVATION  
ILLINOIS ROUTE 33 OVER  
BISHOP CREEK  
F.A.P. RTE. 95  
SECTION 6B-1  
EFFINGHAM COUNTY  
Sta. 531+80  
STRUCTURE NUMBER 025-0097

DATE: APR. 2002

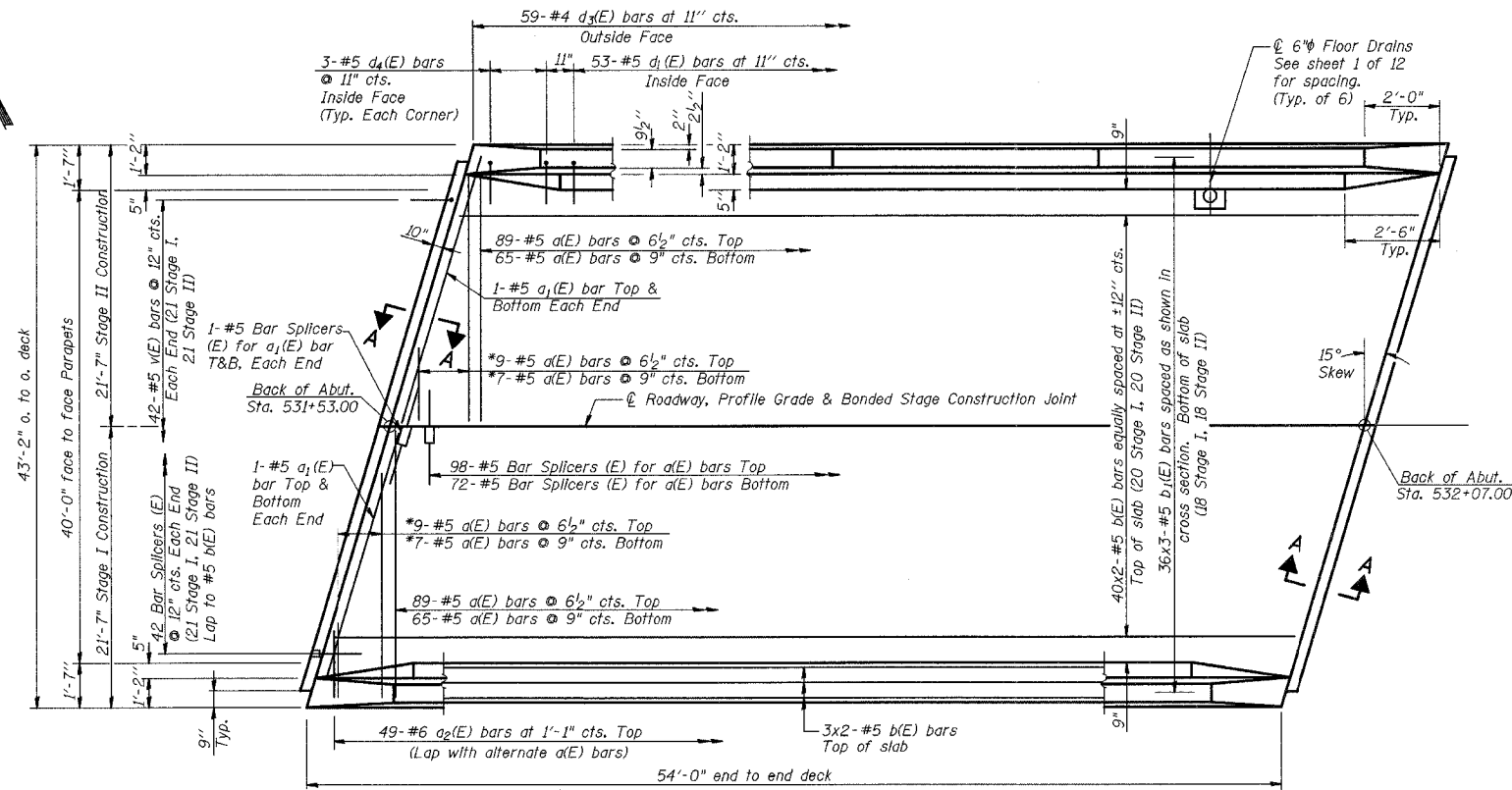
DRAWN BY: BDM  
CHECKED BY: SJR



F.A.P. R/L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	6B-1	EFFINGHAM	409	375
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

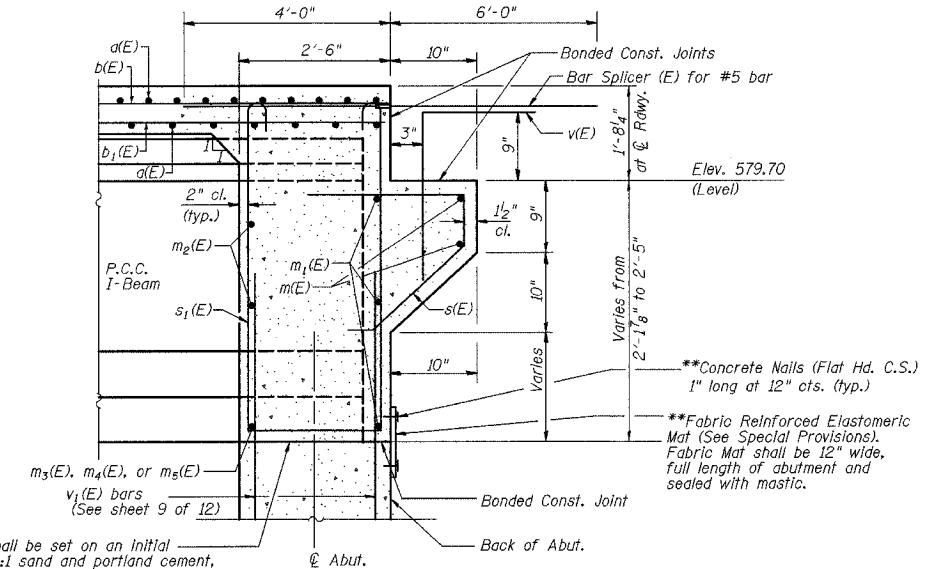
SHEET NO. 5  
SHEETS 12

CONTRACT NO. 94356



\* Order a(E) bars full length. Cut bars in field to fit skew and use the remainder of bars at other end of deck.

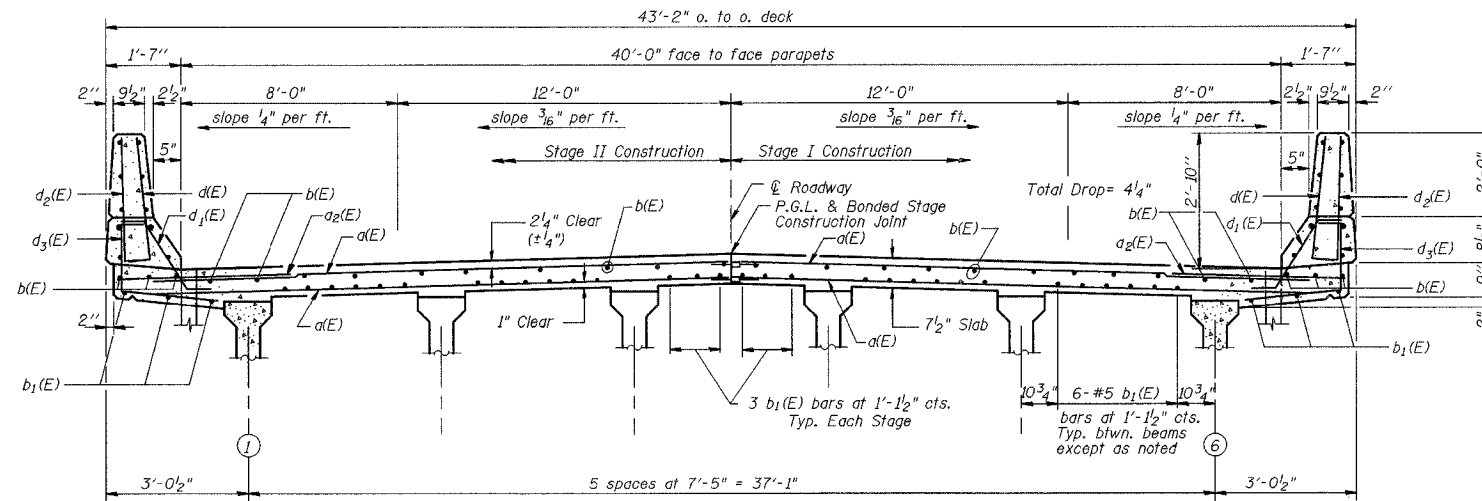
PLAN MIN BAR LAP  
#5 bar = 1'-8"



\*\*Beam ends shall be set on an initial 1/2" Min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed.

SECTION A-A  
(Dim. at Ft. Ls.)

\*\*Cost included with "Concrete Structures".



CROSS SECTION  
(Looking East)

NOTES:

Bars indicated thus 40x2 #5 etc. indicates 40 lines of bars with 2 lengths per line.  
See sheet 6 of 12 for superstructure details, parapet reinforcement and Bill of Material.  
See sheet 7 of 12 for abutment diaphragm details.  
See sheet 10 of 12 for bar splicer details.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUPERSTRUCTURE  
ILLINOIS ROUTE 33 OVER  
BISHOP CREEK  
F.A.P. RTE. 95  
SECTION 6B-1  
EFFINGHAM COUNTY  
Sta. 531+80  
STRUCTURE NUMBER 025-0097

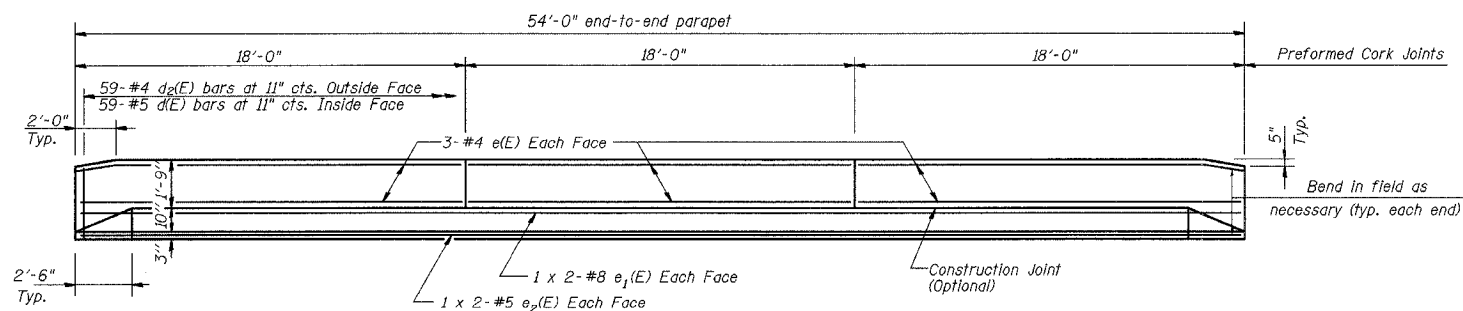
DATE: APR. 2002

DRAWN BY: BDM  
CHECKED BY: SJK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	6B-1	EFFINGHAM	409	376
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6  
SHEETS 12

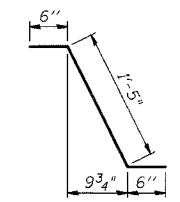
CONTRACT NO. 94356



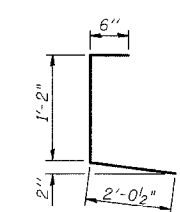
INSIDE ELEVATION OF PARAPET

MIN BAR LAPS

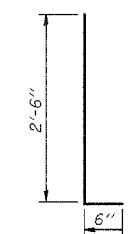
#4 bars = 1'-8"  
#5 bars = 2'-2"  
#8 bars = 4'-6"



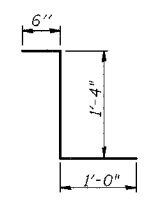
BAR d1(E)



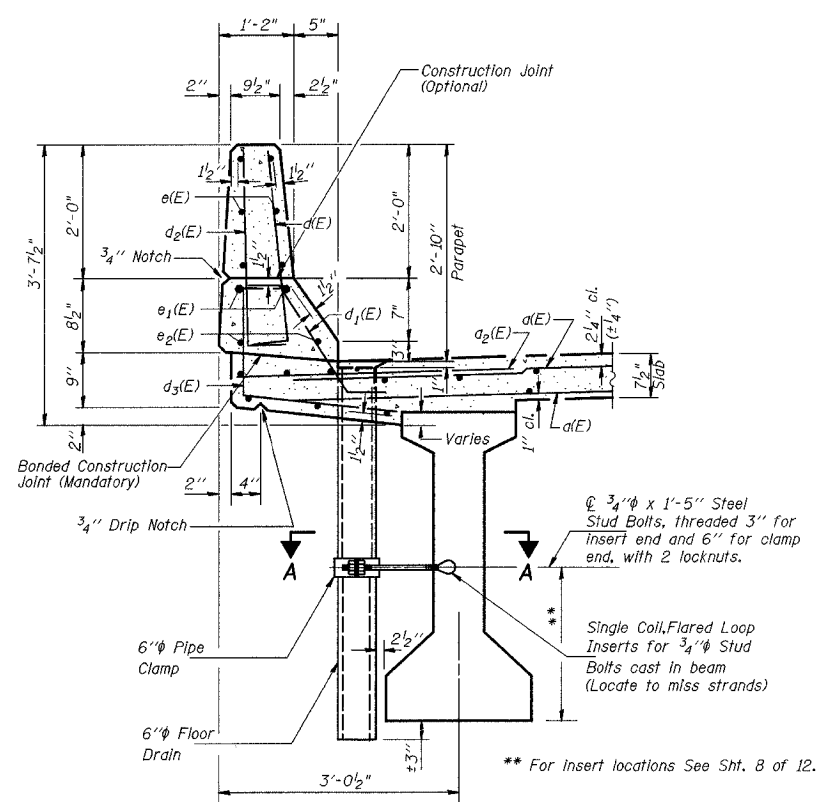
BAR d3(E)



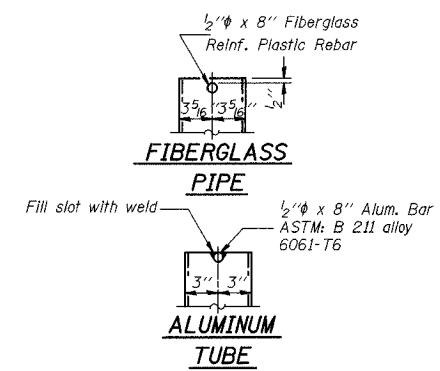
BARS d(E) & d2(E)



BAR d4(E)

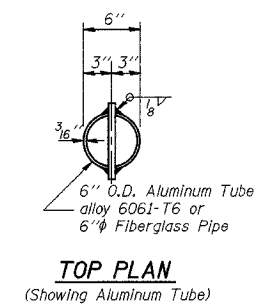


SECTION THRU PARAPET

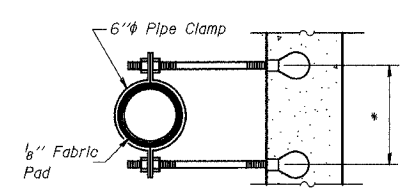


FIBERGLASS PIPE

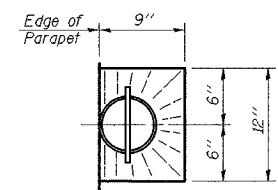
ALUMINUM TUBE



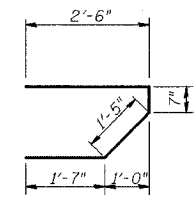
TOP PLAN (Showing Aluminum Tube)



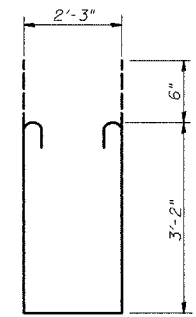
SECTION A-A



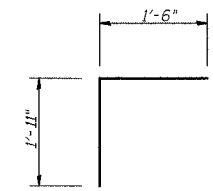
TOP PLAN



BAR s(E)



BAR s1(E)

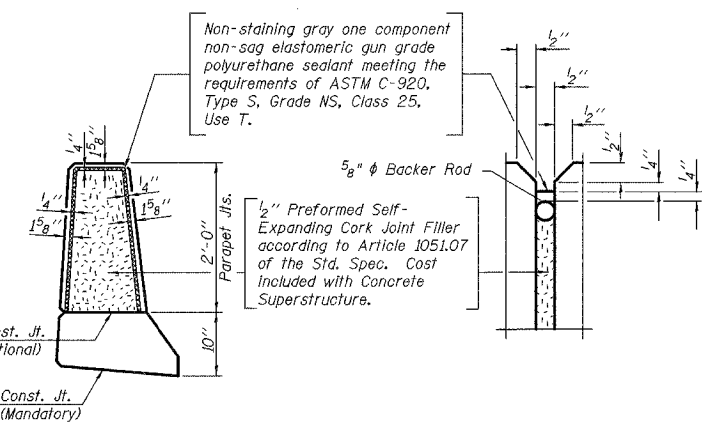


BAR v(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d1(E)	340	#5	19'-11"	—
d2(E)	8	#5	20'-7"	—
d3(E)	98	#6	4'-0"	—
b(E)	92	#5	27'-8"	—
b1(E)	108	#5	19'-0"	—
d(E)	118	#5	3'-0"	—
d1(E)	106	#5	2'-5"	—
d2(E)	118	#4	3'-0"	—
d3(E)	118	#4	3'-8 1/2"	—
d4(E)	12	#5	2'-10"	—
e(E)	36	#4	17'-8"	—
e1(E)	8	#8	29'-1"	—
e2(E)	8	#5	27'-11"	—
m(E)	8	#6	21'-3"	—
m1(E)	12	#6	22'-0"	—
m2(E)	24	#6	9'-2"	—
m3(E)	8	#6	5'-9"	—
m4(E)	4	#6	2'-0"	—
m5(E)	4	#6	2'-9"	—
s(E)	84	#5	6'-1"	—
s1(E)	72	#4	9'-7"	—
v(E)	84	#5	3'-5"	—
Reinforcement Bars, Epoxy Coated		Pound	17470	
Concrete Superstructure		Cu Yds	95.6	
Floor Drains		Each	6	
Bar Splicers		Each	274	

Bars indicated thus 40x2-#5 etc. Indicates 40 lines of bars with 2 lengths per line.

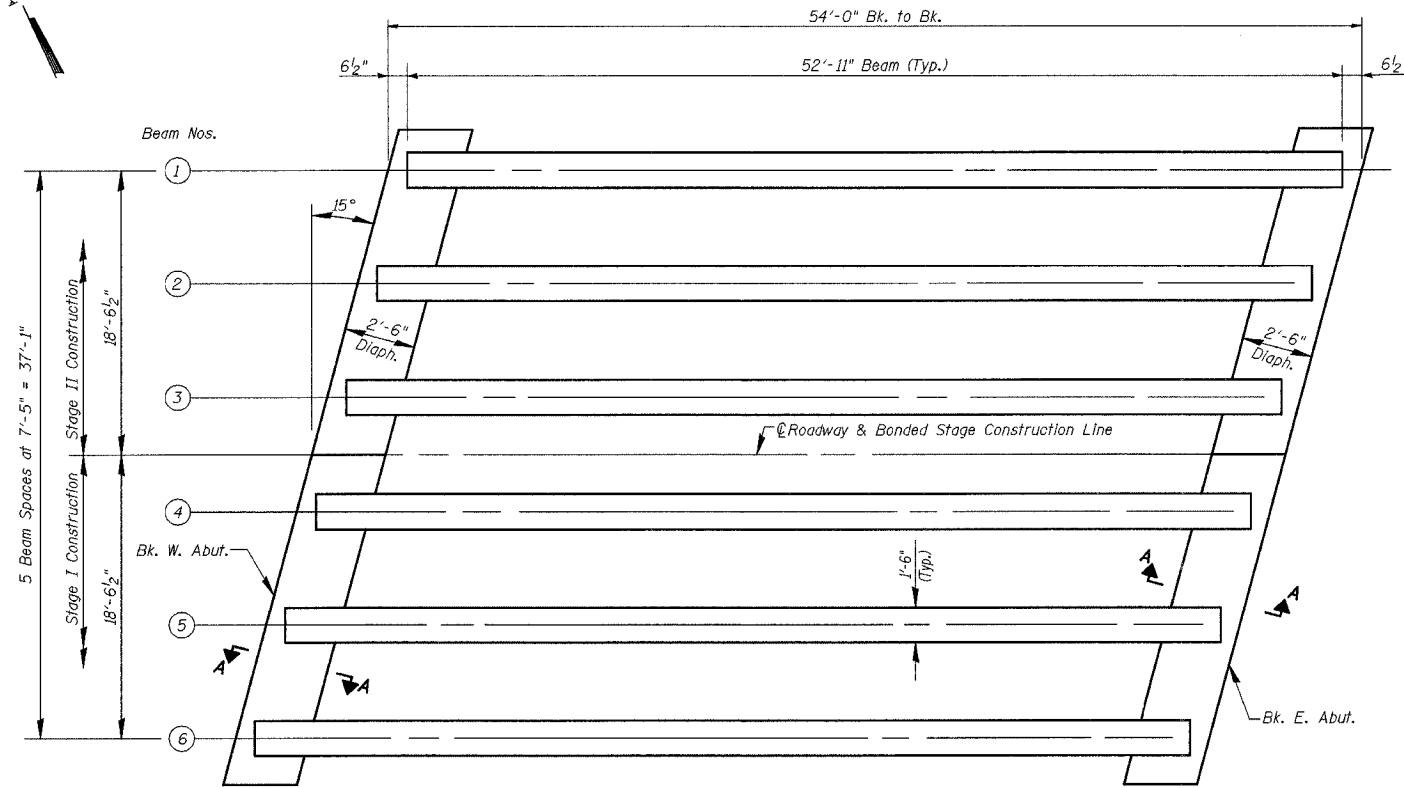


PARAPET JOINT DETAILS

NOTES:

Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.  
The exterior surfaces of the furnished drains shall be coated or pigmented by the manufacturer with a pigment that matches the color of the concrete.  
The clamping device and inserts shall be galvanized in accordance with AASHTO M 232.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUPERSTRUCTURE DETAILS  
ILLINOIS ROUTE 33 OVER  
BISHOP CREEK  
F.A.P. RTE. 95  
SECTION 6B-1  
EFFINGHAM COUNTY  
Sta. 531+80  
STRUCTURE NUMBER 025-0097  
DATE: APR. 2002  
DRAWN BY: BDM  
CHECKED BY: SJK



FRAMING PLAN

**LEGEND**

$I$  and  $I'$  are the moment of inertia and composite moment of inertia of the beam section.

$S_b$  and  $S_b'$  are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.

$S_t$  and  $S_t'$  are the non-composite and composite section modulus for the top fiber of the prestressed beam.

$M @$  is the moment due to dead loads on the non-composite prestressed beam. It is conservatively calculated at 0.5 of the span.

$M_s @$  is the moment due to dead loads on the composite section.

$M \underline{L}$  is the moment due to live load on the composite section.

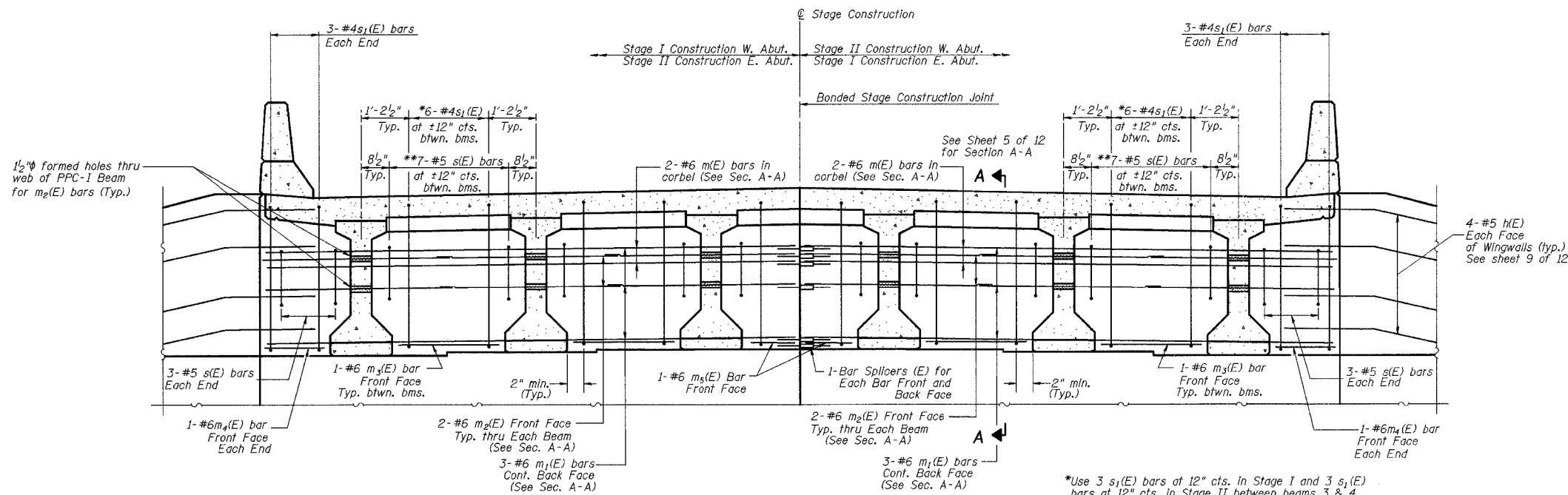
$M (Imp)$  is the moment due to live load impact on the composite section.

INTERIOR BEAM MOMENT TABLE

	0.5 Span	
$I$	(in <sup>4</sup> )	48,648
$I'$	(in <sup>4</sup> )	175,542
$S_b$	(in <sup>3</sup> )	3,165
$S_b'$	(in <sup>3</sup> )	5,914
$S_t$	(in <sup>3</sup> )	2,358
$S_t'$	(in <sup>3</sup> )	27,776
$@$	(k/')	1,080
$M @$	(k)	357
$s @$	(k/')	0.504
$M_s @$	(k)	166
$M \underline{L}$	(k)	448
$M (Imp)$	(k)	126

INTERIOR BEAM REACTION TABLE

	Abut.	
$R @$	(k)	27.8
$R_s @$	(k)	13.0
$R \underline{L}$	(k)	39.8
$Imp.$	(k)	11.2
$R (Total)$	(k)	91.8



DIAPHRAGM ELEVATION AT ABUTMENTS

(Looking West at W. Abut.)  
(Looking East at E. Abut.)

\*Use 3  $s_1(E)$  bars at 12" cts. in Stage I and 3  $s_1(E)$  bars at 12" cts. in Stage II between beams 3 & 4.  
\*\*Use 4  $s(E)$  bars at 11" cts. in Stage I and 4  $s(E)$  bars at 11" cts. in Stage II between beams 3 & 4.

**MIN BAR LAP**

#6 bars = 2'-9"

**NOTES:**

Reinforcement bars in diaphragm are billed with superstructure on sheet 6 of 12.

Concrete in diaphragm is included with Concrete Superstructure on sheet 6 of 12.

For details of bar  $s(E)$  and  $s_1(E)$  see sheet 6 of 12.

The  $s(E)$  and  $s_1(E)$  bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

See sheet 5 of 12 for Section A-A.

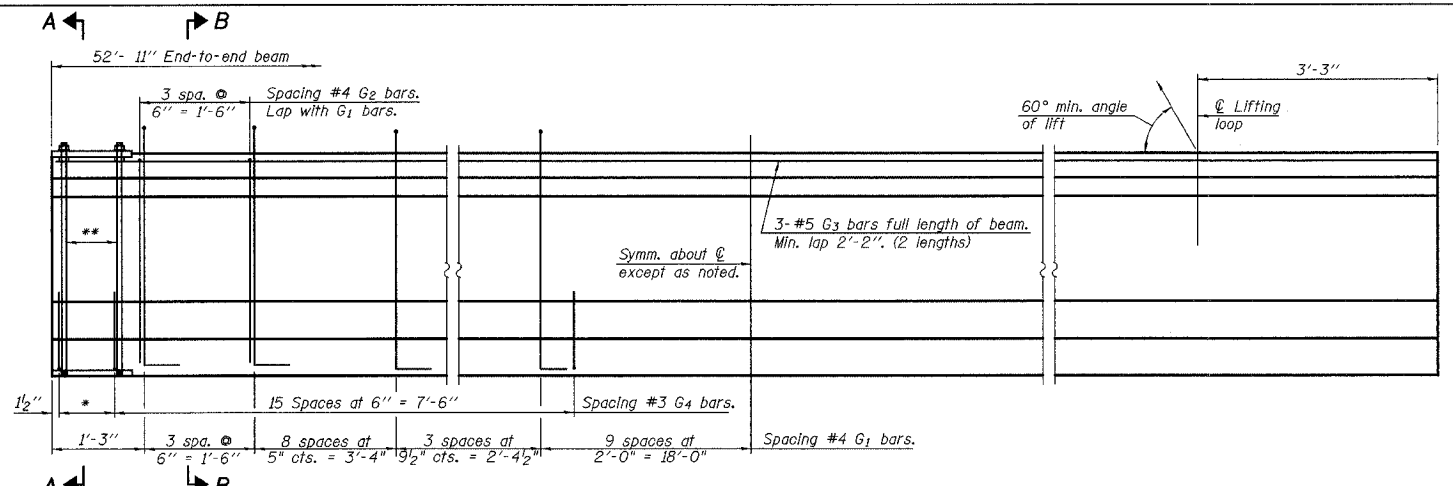
ILLINOIS DEPARTMENT OF TRANSPORTATION  
FRAMING PLAN & DIAPHRAGM DETAILS  
ILLINOIS ROUTE 33 OVER  
BISHOP CREEK  
F.A.P. RTE. 95  
SECTION 6B-1  
EFFINGHAM COUNTY  
Sta. 531+80  
STRUCTURE NUMBER 025-0097

DATE: APR. 2002

DRAWN BY: BDM  
CHECKED BY: SJK

K&P NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	6B-1	EFFINGHAM	409	378
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 94356				

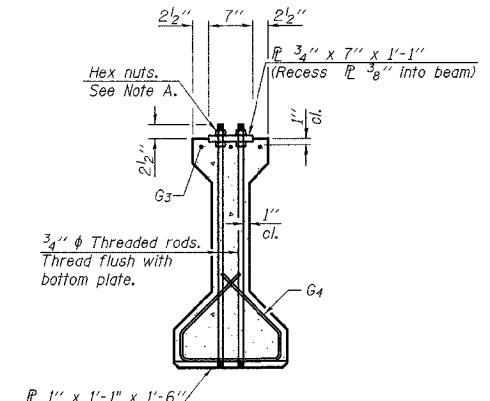
SHEET NO. 8  
SHEETS 12



**ELEVATION OF BEAM**  
(Showing reinforcement & dimensions)

- \* 3 spaces at 3" = 9"
- \*\* 4-3/4"  $\phi$  threaded dowel rods at 3" cts., each face.

Note A:  
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



**SECTION A-A**

**NOTES**

Inserts for 3/4"  $\phi$  threaded dowel rods, when specified, are to be two strut, coil type for interior beams and single coil, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.

The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

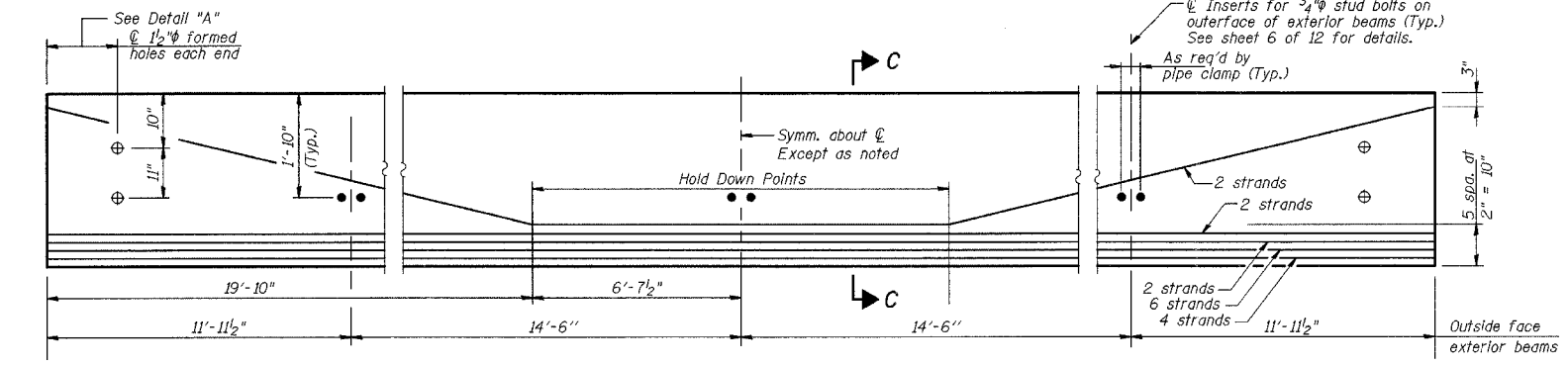
Non-prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.

A minimum 2 1/2"  $\phi$  lifting pin shall be used to engage the lifting loops during handling.

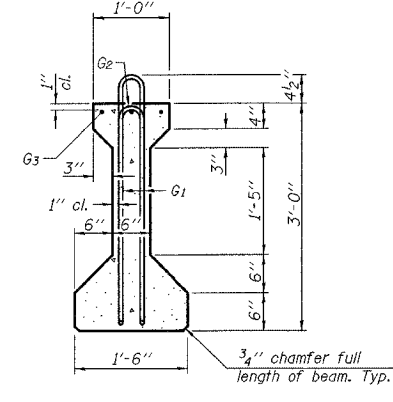
The bottom plates and studs shall be galvanized according to AASHTO M111.

Threaded rods shall be ASTM F 1554 Grade 55.

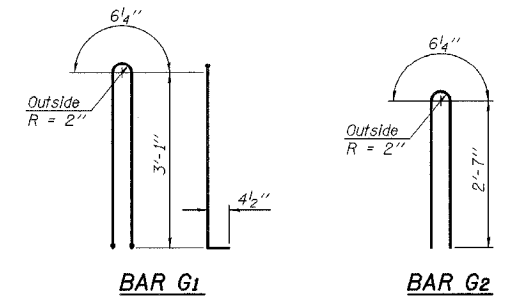
The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to all portions of the I-beam or Bulb-T beam, except the top surface of the top flange and the bottom surface of the bottom flange, starting at each beam end and extending out a distance of 36 inches. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.



**ELEVATION OF BEAM**  
(Showing Prestressing Steel & Inserts)

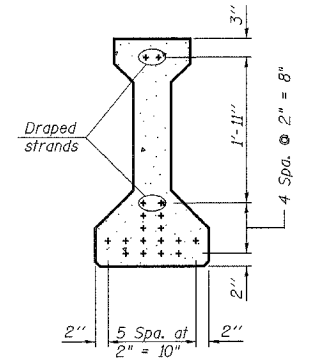


**SECTION B-B**

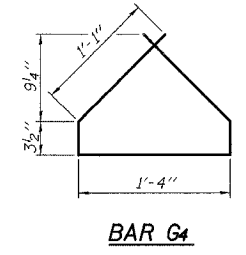


**BAR G1**

**BAR G2**



**SECTION C-C**



**BAR G4**

**\*\*\* BAR LIST  
ONE BEAM ONLY**

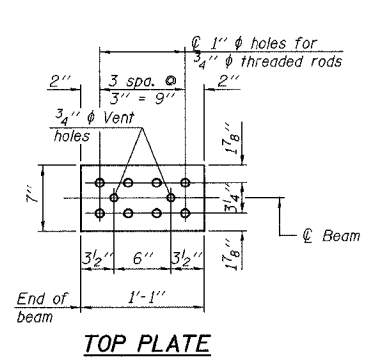
Bar	No.	Size	Length	Shape
G1	47	#4	7'-5"	∩ L
G2	47	#4	5'-8"	∩
G3	6	#5	27'-5"	—
G4	38	#3	4'-1"	∩

\*\*\* For information only

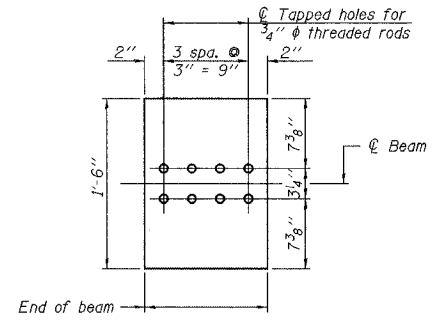
Notes:  
Required release strength, f'ci, shall be 5,000 psi.

**BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	Ft.	318

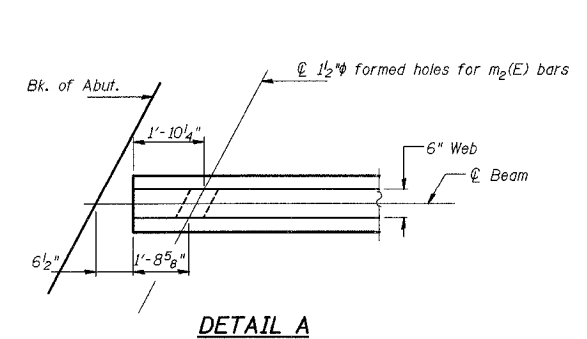


**TOP PLATE**

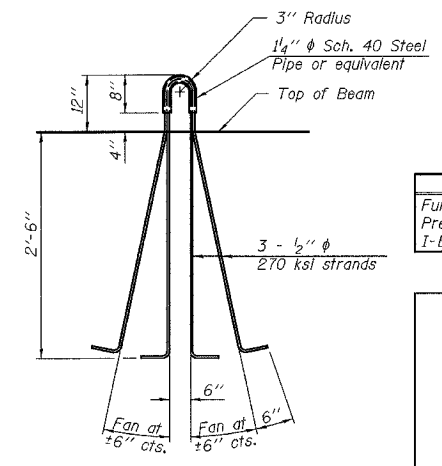


**BOTTOM PLATE**

See bearing details for pintle hole locations when required.



**DETAIL A**



**LIFTING LOOP DETAIL**

PI-4-36D

12-21-06

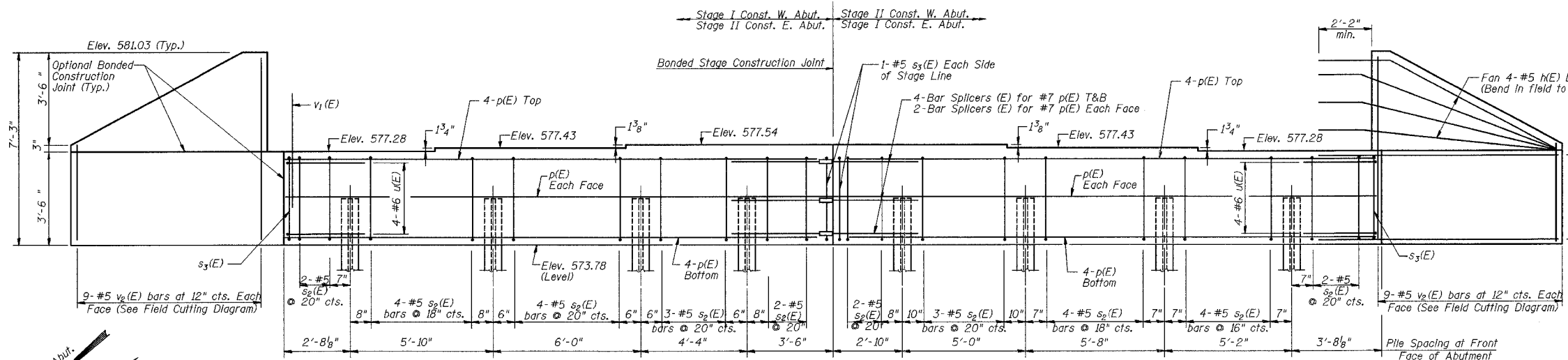
ILLINOIS DEPARTMENT OF TRANSPORTATION  
PCC I-BEAM DETAILS  
ILLINOIS ROUTE 33 OVER  
BISHOP CREEK  
F.A.P. RTE. 95  
SECTION 6B-1  
EFFINGHAM COUNTY  
Sta. 531+80  
STRUCTURE NUMBER 025-0097

DATE: APR, 2002

DRAWN BY: BDM  
CHECKED BY: SJK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	6B-1	EFFINGHAM	409	379
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 94356				

SHEET NO. 9  
SHEETS 12

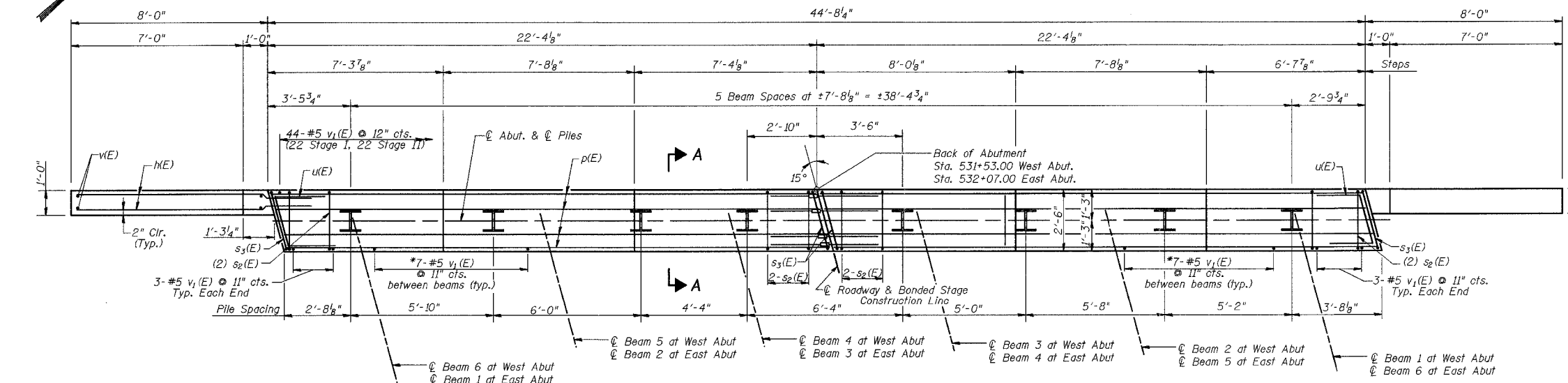


**ELEVATION**  
(Looking West at W. Abut.)  
(Looking East at E. Abut.)

**NOTES:**  
All edges shall have standard 3/4" chamfers except as noted.  
Pour steps monolithically with cap.  
The Test Pile shall be driven to 110 percent of the nominal bearing indicated in the pile data information.  
The Steel H-Piles shall be according to AASHTO M270 Grade 50.  
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

**PILE DATA**

Type:	HP10x42
Nominal Required Bearing:	334 kips
Allowable Resistance Available:	111 kips
Est. Length:	At West Abut.: 36 feet At East Abut.: 36 feet
No. Required:	At West Abut.: 8 At East Abut.: 7 + 1 test pile

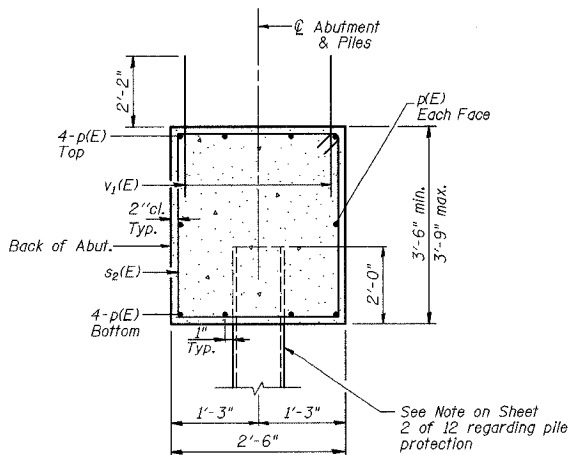


**PLAN**

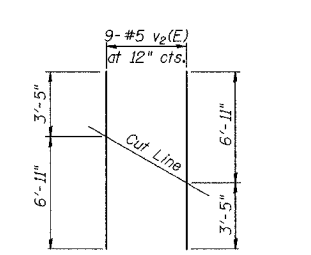
**TWO ABUTMENTS  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	72	#5	10'-9"	—
p(E)	40	#7	22'-0"	—
s <sub>2</sub> (E)	60	#5	11'-6"	□
s <sub>3</sub> (E)	8	#5	11'-8"	□
u(E)	16	#6	7'-3"	✓
v <sub>1</sub> (E)	172	#5	4'-4"	—
v <sub>2</sub> (E)	36	#5	10'-4"	—
Structure Excavation	Cu Yd	80		
Concrete Structures	Cu Yd	36.9		
Reinforcement Bars,	Pound	4760		
Epoxy Coated				
Furnishing Steel Piles	Foot	540		
HP 10x42				
Driving Piles	Foot	540		
Test Pile Steel	Each	1		
HP 10x42				
Bar Splicers	Each	20		

\*Use 4 v<sub>1</sub>(E) bars at 10" cts. in Stage I and 4 v<sub>1</sub>(E) bars at 10" cts. in Stage II between beams 3 & 4

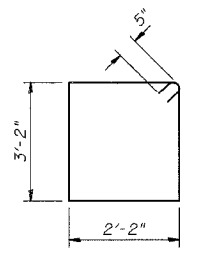


**SECTION A-A**  
(Dim. at Rt. & S)

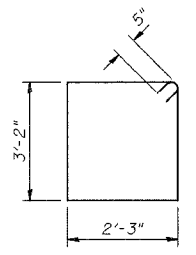


**FIELD CUTTING DIAGRAM**

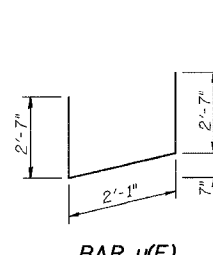
\* Order v<sub>2</sub>(E) bars full length. Cut to fit as shown and use remainder of bars in opposite face.



**BAR s<sub>2</sub>(E)**



**BAR s<sub>3</sub>(E)**



**BAR u(E)**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ABUTMENTS**  
ILLINOIS ROUTE 33 OVER  
BISHOP CREEK  
F.A.P. RTE. 95  
SECTION 6B-1  
EFFINGHAM COUNTY  
Sta. 531+80  
STRUCTURE NUMBER 025-0097

The diameter of this part is the same as the diameter of the bar spliced.

The diameter of this part is equal or larger than the diameter of bar spliced.

**ROLLED THREAD DOWEL BAR**



**\*\* ONE PIECE**

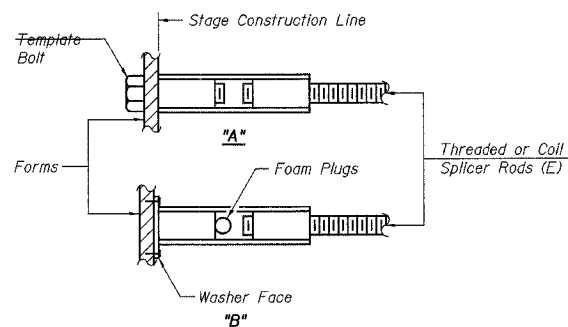
Wire Connector



**WELDED SECTIONS**

**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E) : Indicates epoxy coating.

**NOTES**

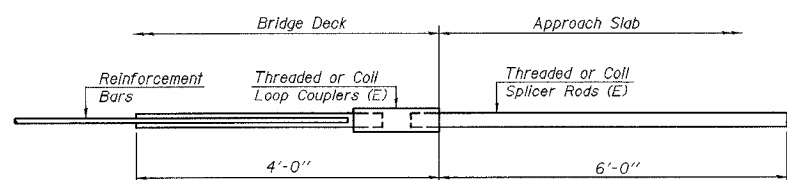
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) =  $1.25 \times f_y \times A_t$
- ② Minimum \*Pull-out Strength (Tension in kips) =  $0.66 \times f_y \times A_t$

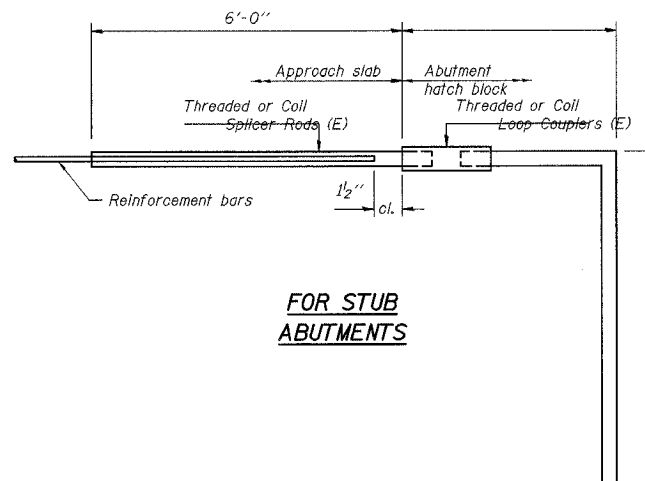
Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



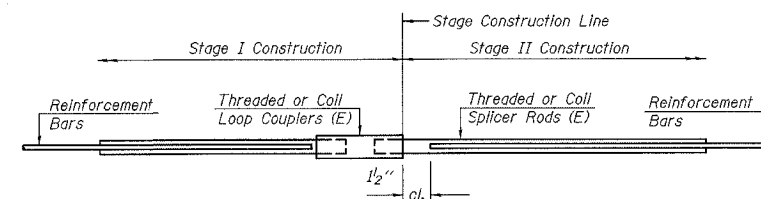
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 84



**FOR STUB ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = N/A



**STANDARD**

Bar Size	No. Assemblies Required	Location
#7	10	W. Abut.
#7	10	E. Abut.
#6	8	W. Abut. Diaph.
#6	8	E. Abut. Diaph.
#5	174	Deck

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BAR SPLICER DETAILS**  
 ILLINOIS ROUTE 33 OVER  
 BISHOP CREEK  
 F.A.P. RTE. 95  
 SECTION 6B-1  
 EFFINGHAM COUNTY  
 Sta. 531+80  
 STRUCTURE NUMBER 025-0097

DATE: APR. 2002

DRAWN BY: BDM  
CHECKED BY: SJK





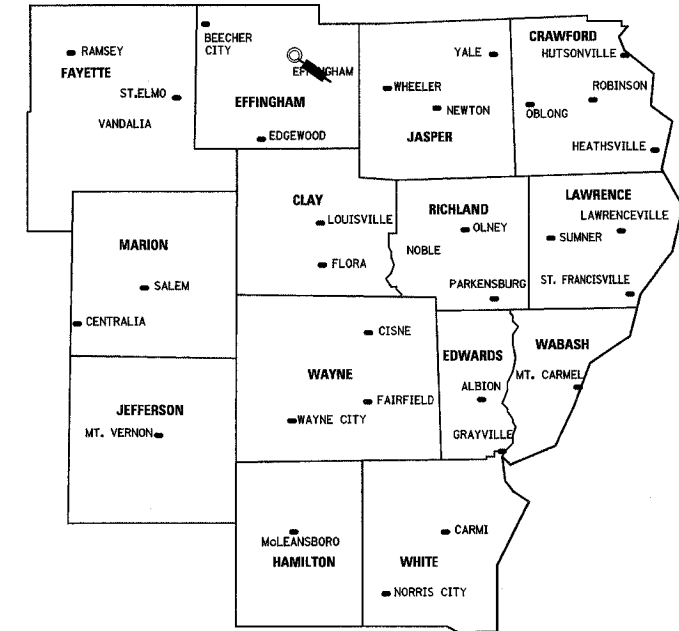


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	383
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY RIGHT OF WAY PLANS FOR PROPOSED FEDERAL AID HIGHWAY

**FAP ROUTE 95 (IL ROUTE 33)  
SECTION (5,6,7)Y RS-1  
EFFINGHAM COUNTY  
JOB NO R-97-010-01**

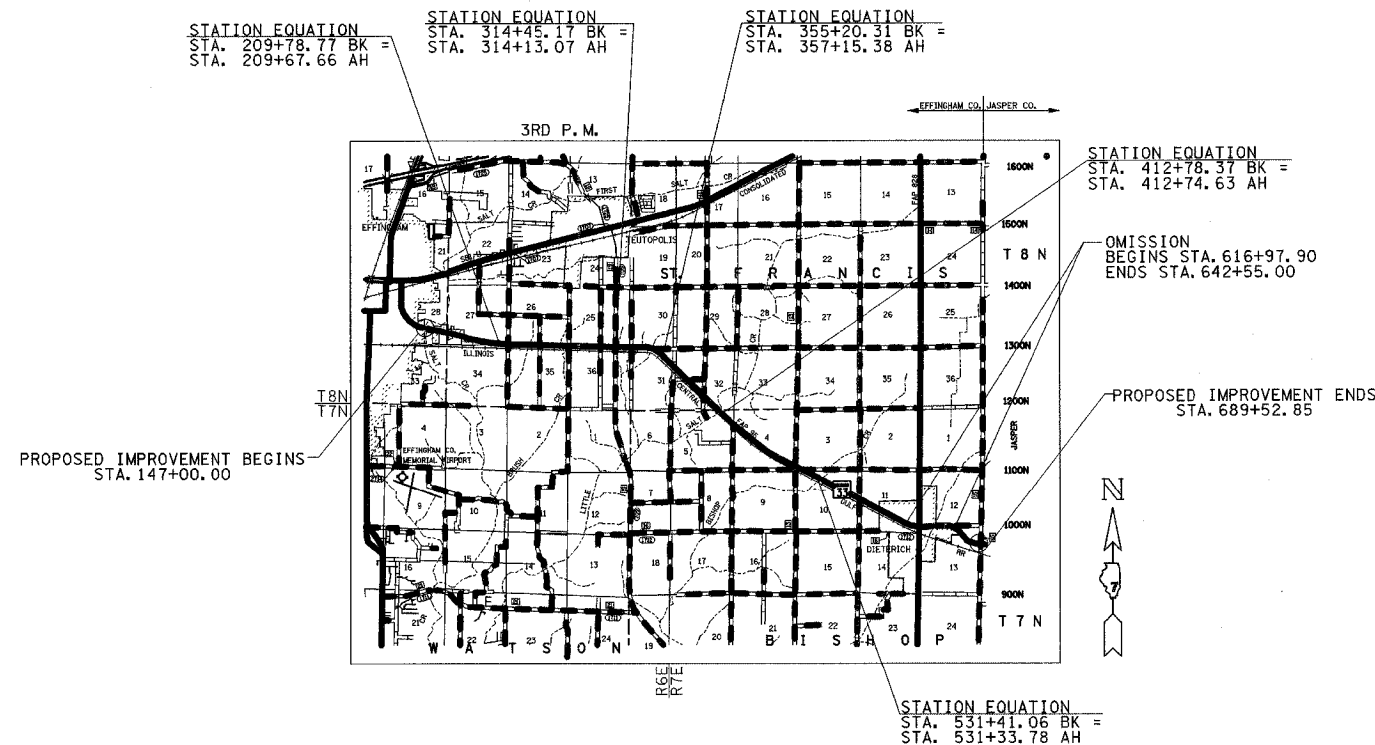
## DISTRICT 7



© DISTRICT HEADQUARTERS

LOCATION OF SECTION INDICATED THUS:

FOR UNDERGROUND  
UTILITY LOCATIONS CALL  
J. U. L. I. E. TOLL FREE  
1-800-392-0123



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
SUBMITTED _____	20 _____ DISTRICT ENGINEER
EXAMINED _____	20 _____ CHIEF OF PLATS AND PLANS
PASSED _____	20 _____ DISTRICT LAND ACQUISITION ENGINEER
REVIEWED _____	20 _____ CENTRAL BUREAU RIGHT OF WAY PLANS ENGINEER
APPROVED _____	20 _____ ENGINEER OF LAND ACQUISITION

**CONTRACT NO 94356**

NET LENGTH OF PROJECT= 51,554.91 LIN. FT. = 9.764 MILES

\*DGN-SPEC\*  
\*DATE\*

T 8 N R 6 E 3rd PM

TEUTOPOLIS TWP

F.A.P. RTE. 95	SECTION *	COUNTY EFFINGHAM	TOTAL SHEETS 409	SHEET NO. 384
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				

N.E. 1/4, S.E. 1/4, SECTION 28

7110107

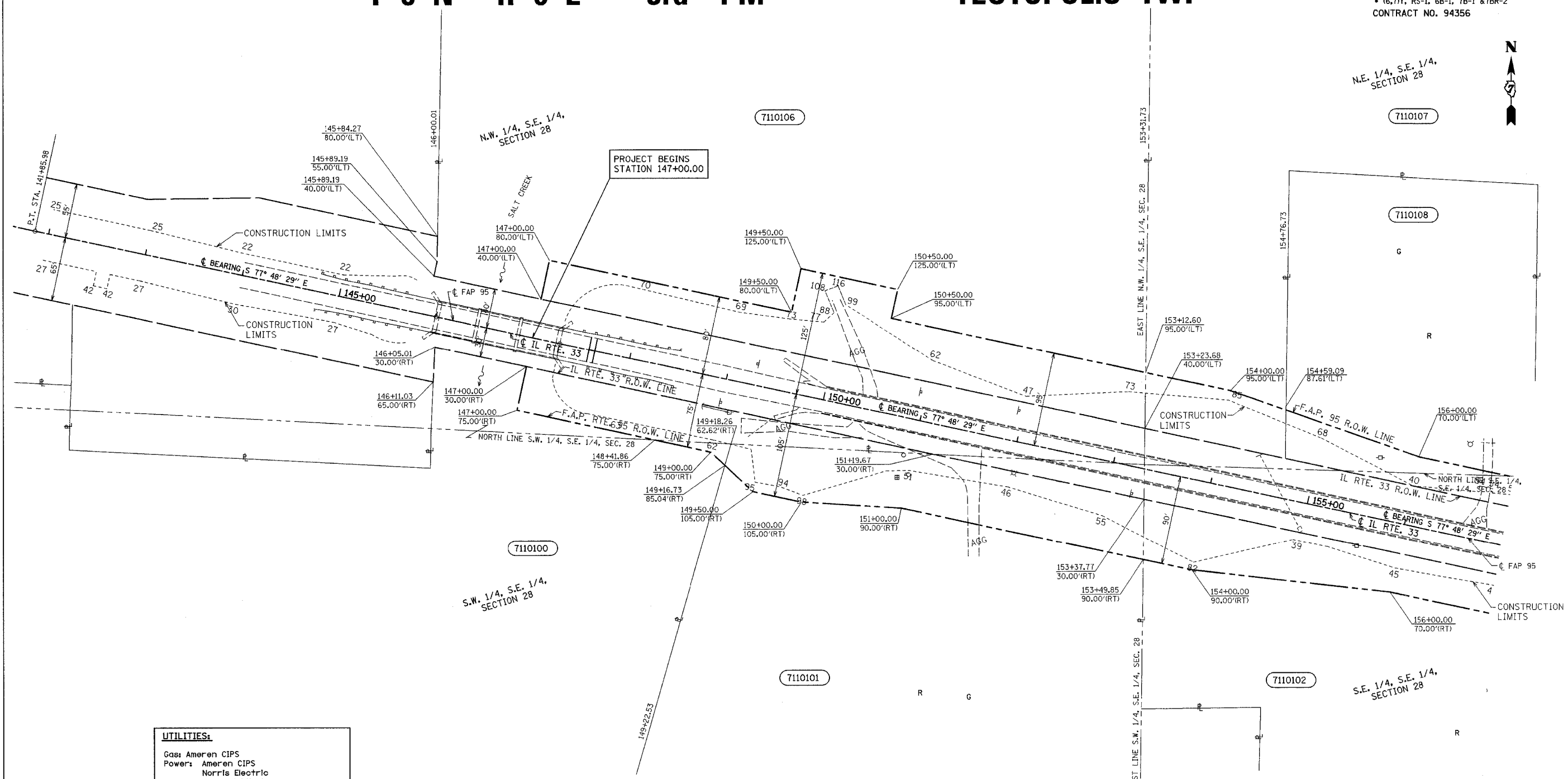
7110108

7110102

S.E. 1/4, S.E. 1/4, SECTION 28



•DGN-SPEC•  
•DATE•



**UTILITIES:**

Gas: Ameren CIPS  
 Power: Ameren CIPS  
           Norris Electric  
 Water: City of Effingham  
           EJ Water Corporation  
           Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
               Frontier Communications  
               Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
               Marathon Pipeline

- (R) RECORDED DISTANCE
- - IRON PIN
  - - IRON PIPE
  - - NAIL

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110100	City of Effingham	13,189			23,348 AC.							
7110101	Arthur and Rose Sudkamp et al	23,939			15,113 AC.							
7110102	Leonard and Betty M. Wendt et al	29,677			10,790 AC.							
7110106	Philip and Mary Jo Wendt	33,249			9,710 AC.							
7110107	Quendolyn Merry	15,290			8,831 AC.							
	Tract 1	7,763										
	Tract 2	7,527										
7110108	Cecyle Del Cooley et al	8,891			1,582 AC.							

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

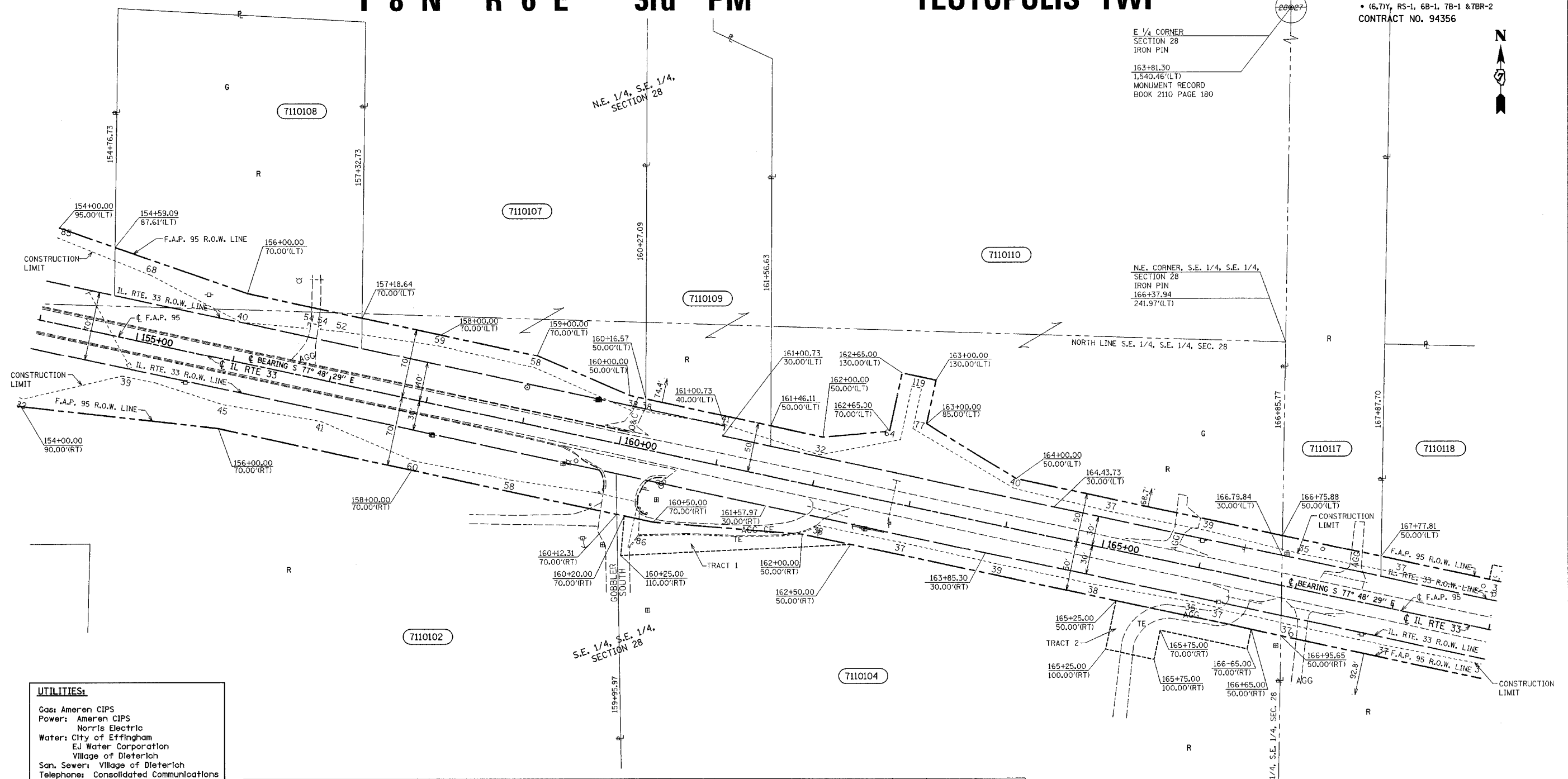
JOB NO. R-97-010-01 CONTRACT NO 94356

RIGHT OF WAY PLANS  
 FAP ROUTE 95  
 PROJECT SECTION (5,6,7) Y, RS-1  
 STATION 145+00 TO  
 STATION 155+00  
 COUNTY EFFINGHAM  
 SCALE 1"=50' SHEET 2 OF 27

T 8 N R 6 E 3rd PM TEUTOPOLIS TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	385
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2  
CONTRACT NO. 94356



**UTILITIES:**  
 Gas: Ameren CIPS  
 Power: Ameren CIPS  
           Norris Electric  
 Water: City of Effingham  
           EJ Water Corporation  
           Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
               Frontier Communications  
               Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
               Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110102	Leonard and Betty M. Wendt	29,677			10,730							
7110104	Edward G. and Jane Kistner	16,070		9,150 4,850 4,300	15,863 AC.							
7110107	Quendolyn Merry	15,290			8,831 AC.							
	Tract 1	7,763										
	Tract 2	7,527										
7110108	Cecyle Del Cooley et al	8,891			1,582 AC.							
7110109	Ruth Deibel et al	1,781			1,382 AC.							
7110110	Lawrence W. Verdeyen	15,793			8,183 AC.							
7110117	Michael E. Verdeyen	2,039			1,812 AC.							
7110118	Eugene H. Verdeyen	5,097		525	1,372 AC.							

(R) RECORDED DISTANCE  
 ○ - IRON PIN  
 ⊙ - IRON PIPE  
 ■ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

**RIGHT OF WAY PLANS**  
**FAP ROUTE 95**  
 PROJECT SECTION (5,6,7) Y, RS-1  
 STATION 155+00 TO  
 STATION 168+00  
 COUNTY EFFINGHAM  
 SCALE 1"=50' SHEET 3 OF 27

•DGN-SPEC•  
 •DATE•

K.M.S.  
 DRAWN BY  
 WRITTEN BY  
 CHECKED BY  
 INSPECTED BY

T 8 N R 6 E 3rd PM

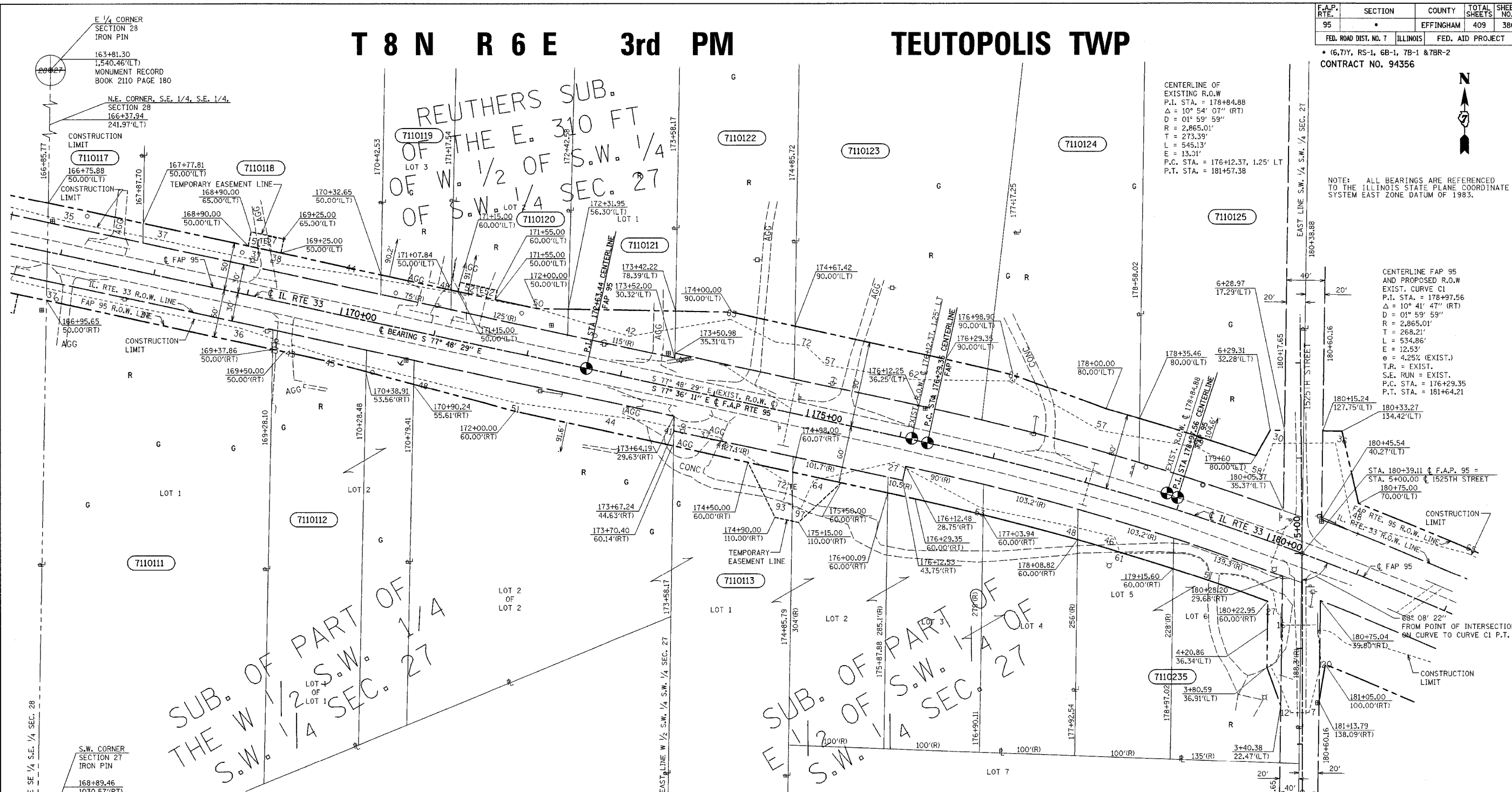
TEUTOPOLIS TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	386
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

• (6,7)Y, RS-1, 6B-1, 7B-1 & 7B-2  
CONTRACT NO. 94356



NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.



DRAWN BY  
WRITTEN BY  
CHECKED BY  
INSPECTED BY

**UTILITIES:**

- Gas: Ameren CIPS
- Power: Ameren CIPS, Norris Electric
- Water: City of Effingham, EJ Water Corporation, Village of Dieterich
- San Sewer: Village of Dieterich
- Telephone: Consolidated Communications, Frontier Communications, Montrose Mutual
- CATV: Clear Vision Systems Inc.
- Pipeline: Trunkline Gas, Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110111	Randy and Edna Gebben	4,846			2,885 AC.							
7110112	Steve H. and Irva Irene Kreke	3,415			1,385 AC.							
7110113	Lowell E. Miller et al	17,928		3,121	5,115 AC.							
7110117	Michael E. Verdeyen	2,039			1,812 AC.							
7110118	Eugene H. Verdeyen	5,097		525	1,372 AC.							
7110119	Steven J. and Pamela S. Goldstein	1,503			20,069							
7110120	Cletus H. Habing	2,609		400	35,704							
7110121	Kurt J. and Linda L. Buehnerkemper	4,279			32,721							
7110122	George C. and Doris M. Stumborg	6,597			37,174							
7110123	Gerald H. and Eleanor F. Fuesting	12,564			1,765 AC.							
7110124	Herman J. and Dolores M. Cornell	6,606			1,116 AC.							
7110125	Paul C., Stephen B., and Edward J. Naake	7,823			1,443 AC.							
7110235	Laura Ann and Howard Janis	8,188			40,951							

JOB NO. R-97-010-01 CONTRACT NO 94356

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

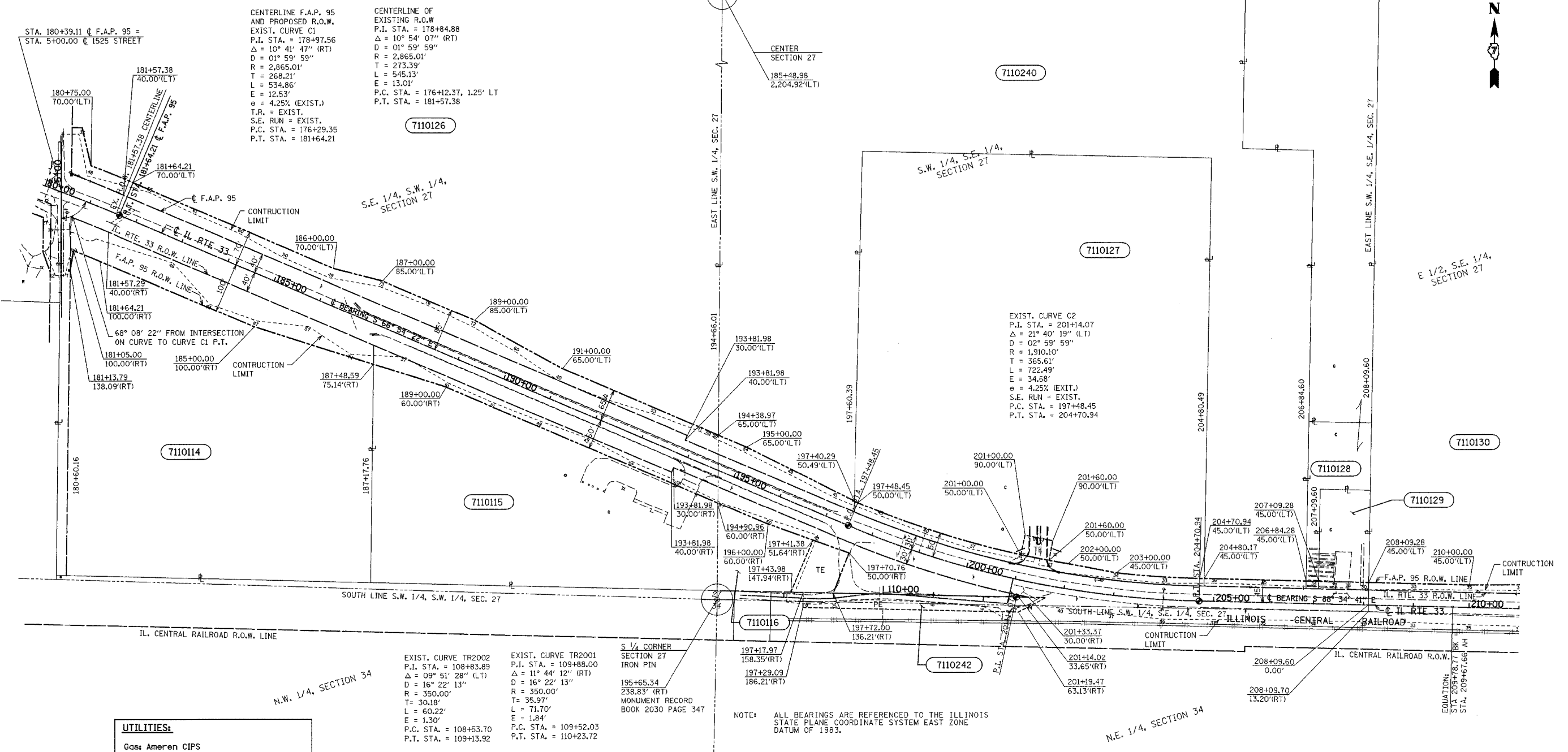
RIGHT OF WAY PLANS  
FAP ROUTE 95  
PROJECT SECTION (5,6,7) Y, RS-1  
STATION 168+00 TO 181+00  
COUNTY EFFINGHAM  
SCALE 1"=50' SHEET 4 OF 27

T 8 N R 6 E 3rd PM

TEUTOPOLIS TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	387
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				

•DGN-SPEC•  
•DATE•



**UTILITIES:**  
 Gas: Ameren CIPS  
 Power: Ameren CIPS  
         Norris Electric  
 Water: City of Effingham  
         EJ Water Corporation  
         Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
                 Frontier Communications  
                 Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
                 Marathon Pipeline

EXIST. CURVE TR2002  
 P.I. STA. = 108+83.89  
 $\Delta = 09^\circ 51' 28''$  (LT)  
 $D = 16^\circ 22' 13''$   
 $R = 350.00'$   
 $T = 30.18'$   
 $L = 60.22'$   
 $E = 1.30'$   
 P.C. STA. = 108+53.70  
 P.T. STA. = 109+13.92

EXIST. CURVE TR2001  
 P.I. STA. = 109+88.00  
 $\Delta = 11^\circ 44' 12''$  (RT)  
 $D = 16^\circ 22' 13''$   
 $R = 350.00'$   
 $T = 35.97'$   
 $L = 71.70'$   
 $E = 1.84'$   
 P.C. STA. = 109+52.03  
 P.T. STA. = 110+23.72

S 1/4 CORNER SECTION 27 IRON PIN  
 195+65.34  
 238.83' (RT)  
 MONUMENT RECORD BOOK 2030 PAGE 347

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110114	Dale T. Kroke	36,390			7,506 AC.							
7110115	Sandschafer Electric, Inc.	17,150			4,972 AC.							
7110116	Charles A. and Dolores A. Kroeger et al	25,065		7,653	24,159							
7110126	Albert Kroeger	47,824			21,381 AC.							
7110127	Effingham Cemetery Corp.	13,333		2,321	12,745 AC.							
7110128	Lawrence L. and Patricia A. Willenborg	375			4,502 AC.							
7110129	Effingham Monument Company	1,500			18,499							
7110130	Mardell Goldstein	25,405			96,339 AC.							
7110240	Mel J. and Arthur C. Willenborg	11,694			18,050 AC.							
	Tract 1	8,632										
	Tract 2	3,062										
7110242	IL Central Railroad Company	12,933		12,933 PE								

NOTE: P.E. DENOTES PERMANENT EASEMENT NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED. NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

RIGHT OF WAY PLANS  
 FAP ROUTE 95  
 PROJECT SECTION (5,6,7) Y, RS-1  
 STATION 181+00 TO  
 STATION 210+00  
 COUNTY EFFINGHAM  
 SCALE 1"=100' SHEET 5 OF 27

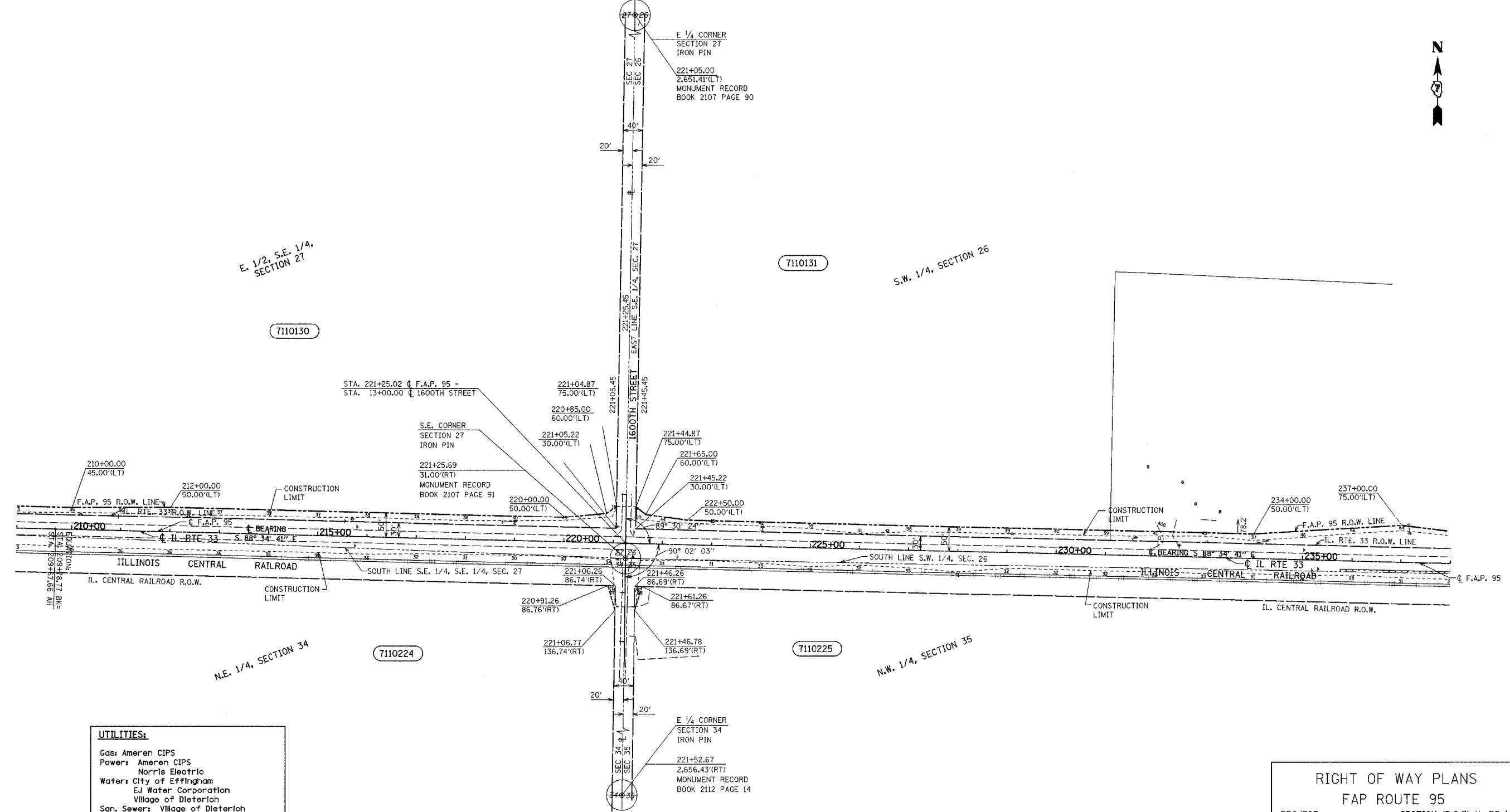
JOB NO. R-97-010-01 CONTRACT NO 94356

# T 8 N R 6 E 3rd PM TEUTOPOLIS TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	388
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT		
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



•DGN-SPEC•  
•DATE•



**UTILITIES:**

Gas: Ameren CIPS  
 Power: Ameren CIPS  
           Norris Electric  
 Water: City of Effingham  
           EJ Water Corporation  
           Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
               Frontier Communications  
               Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
               Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110130	Mardell Goldstein	25,405			96,339 AC.							
7110131	Gerald L. and Shirley M. Moon	41,204			66,670 AC.							
7110224	Ted and Patricia Kroke			375								
7110225	Norris Electric Cooperative			375								

**RIGHT OF WAY PLANS**  
**FAP ROUTE 95**  
 PROJECT SECTION (5,6,7) Y, RS-1  
 STATION 210+00 TO  
 STATION 237+00  
 COUNTY EFFINGHAM  
 SCALE 1"=100' SHEET 6 OF 27

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 INSPECTED BY \_\_\_\_\_  
 K.M.S.  
 T.T.P.  
 J.T.P.

(R) RECORDED DISTANCE  
 ○ - IRON PIN  
 ● - IRON PIPE  
 ■ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

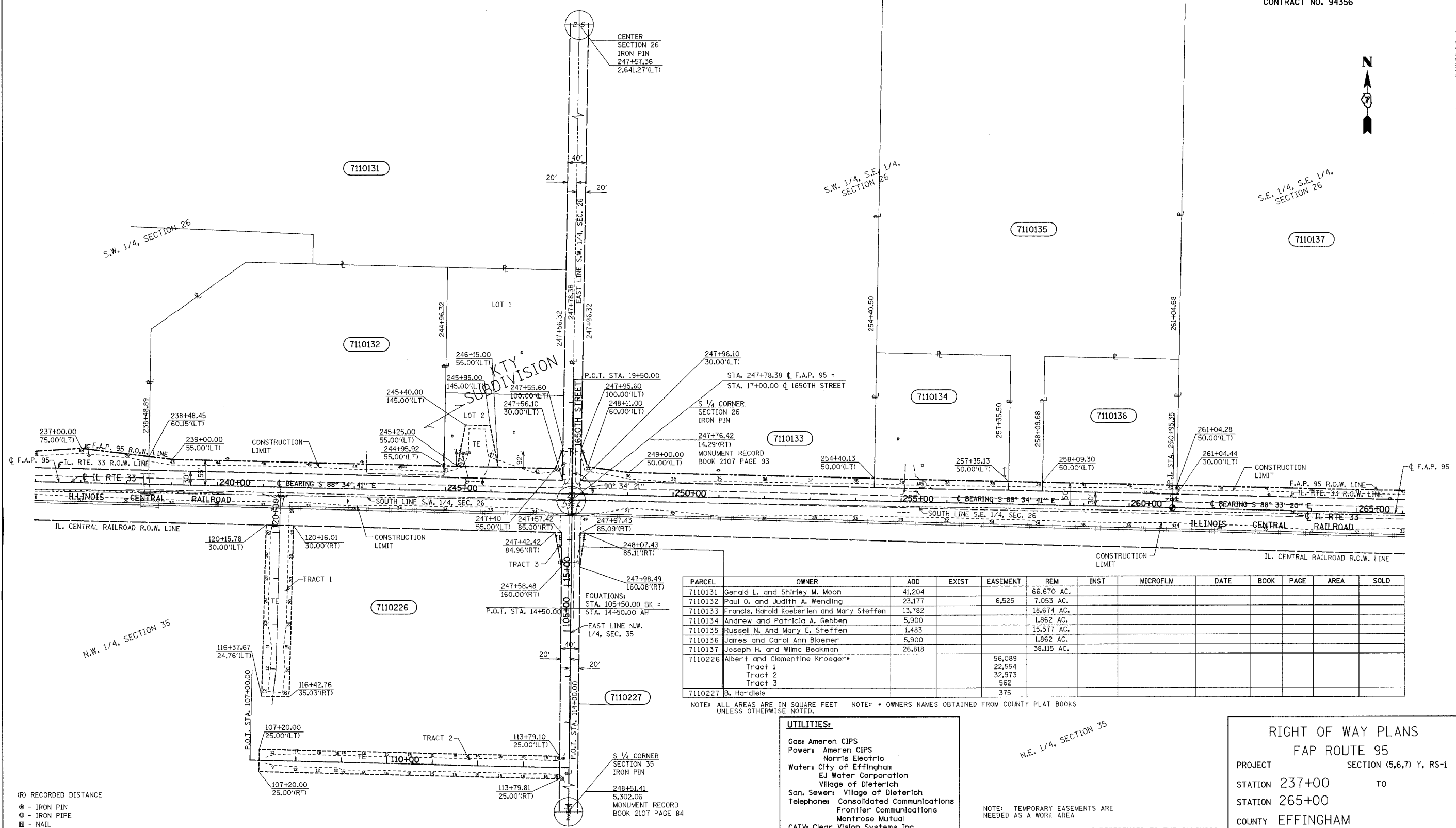
NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

# T 8 N R 6 E 3rd PM TEUTOPOLIS TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	389
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



•DGN-SPEC  
•DATE



PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110131	Gerald L. and Shirley M. Moon	41,204			66,670 AC.							
7110132	Paul O. and Judith A. Wendling	23,177		6,525	7,053 AC.							
7110133	Francis, Harold Koerberlen and Mary Steffen	13,782			18,674 AC.							
7110134	Andrew and Patricia A. Gebben	5,900			1,862 AC.							
7110135	Russell N. And Mary E. Steffen	1,483			15,577 AC.							
7110136	James and Carol Ann Bloemer	5,900			1,862 AC.							
7110137	Joseph H. and Wilma Beckman	26,818			38,115 AC.							
7110226	Albert and Clementine Kroeger				56,089							
	Tract 1				22,554							
	Tract 2				32,973							
	Tract 3				562							
7110227	B. Hardeleis				375							

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED. NOTE: • OWNERS NAMES OBTAINED FROM COUNTY PLAT BOOKS

**UTILITIES:**  
 Gas: Ameren CIPS  
 Power: Ameren CIPS  
       Norris Electric  
 Water: City of Effingham  
       EJ Water Corporation  
       Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
             Frontier Communications  
             Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipelines: Trunkline Gas  
             Marathon Pipeline

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA  
 NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

**RIGHT OF WAY PLANS**  
**FAP ROUTE 95**  
 PROJECT SECTION (5,6,7) Y, RS-1  
 STATION 237+00 TO STATION 265+00  
 COUNTY EFFINGHAM  
 SCALE 1"=100' SHEET 7 OF 27

DRAWN BY K.M.S.  
 WRITTEN BY T.T.P.  
 CHECKED BY T.T.P.  
 INSPECTED BY T.T.P.

(R) RECORDED DISTANCE  
 ⊙ - IRON PIN  
 ⊖ - IRON PIPE  
 ⊞ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356

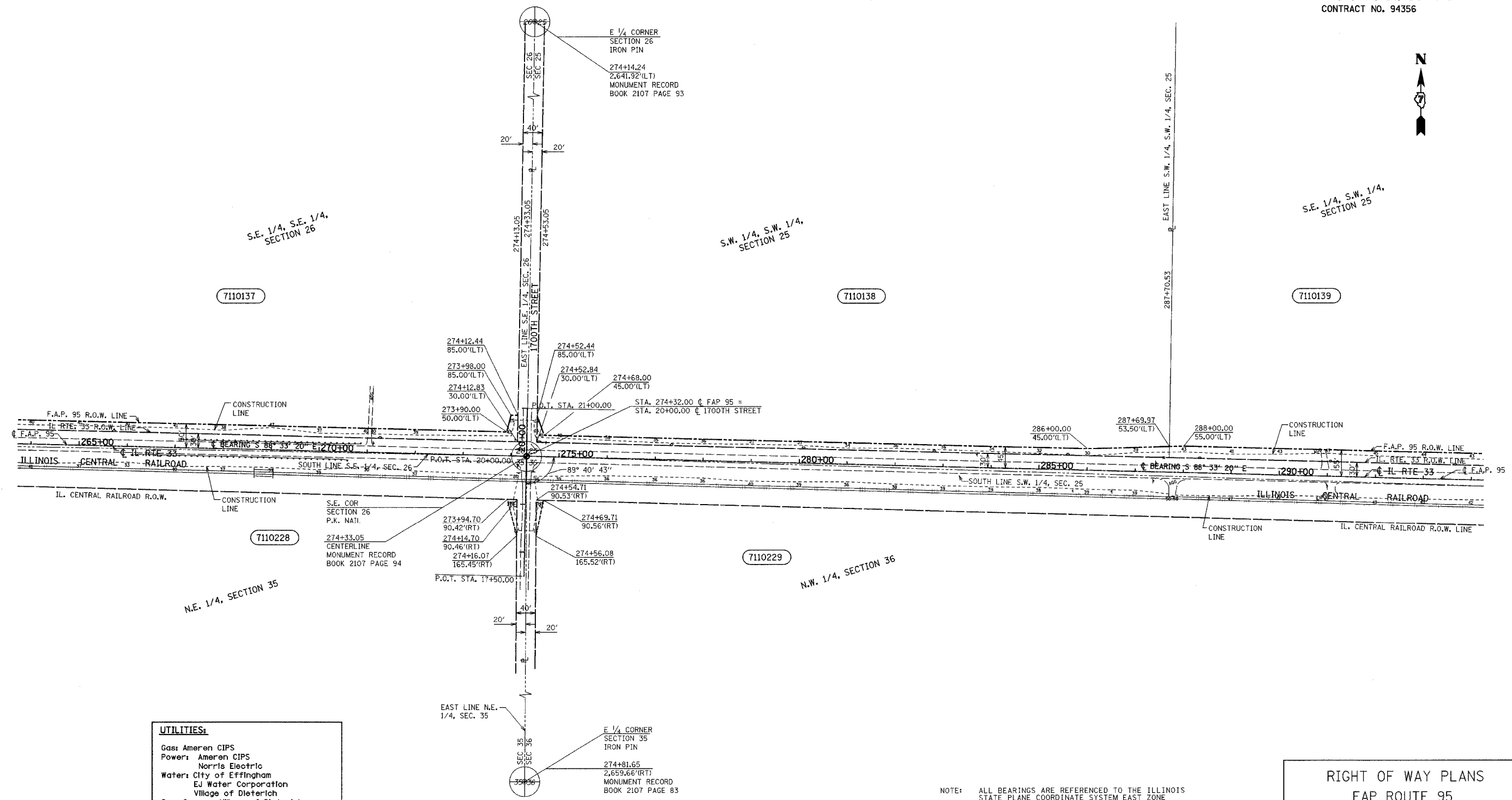
T 8 N R 6 E 3rd PM

TEUTOPOLIS TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	390
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT		
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



•DGN-SPEC•  
•DATE•



**UTILITIES:**  
 Gas: Ameron CIPS  
 Power: Ameron CIPS  
         Norris Electric  
 Water: City of Effingham  
         EJ Water Corporation  
         Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
                 Frontier Communications  
                 Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
                 Marathon Pipeline

(R) RECORDED DISTANCE  
 ○ - IRON PIN  
 ⊕ - IRON PIPE  
 ⊞ - NAIL

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110137	Joseph H. and Wilma Beckman	26,818			38,115 AC.							
7110138	F. and H. Koberlein*	20,788			38,395 AC.							
7110139	Emma Christine Koberlein et al	33,835			34,883 AC.							
7110228	Charles Kreke Trustee of Gertrude Kreke 'B' Trust			750								
7110229	Donald Buenker Trustee			562								

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.  
 NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

**RIGHT OF WAY PLANS**  
 FAP ROUTE 95  
 PROJECT SECTION (5,6,7) Y, RS-1  
 STATION 265+00 TO  
 STATION 293+00  
 COUNTY EFFINGHAM  
 SCALE 1"=100' SHEET 8 OF 27

JOB NO. R-97-010-01 CONTRACT NO 94356



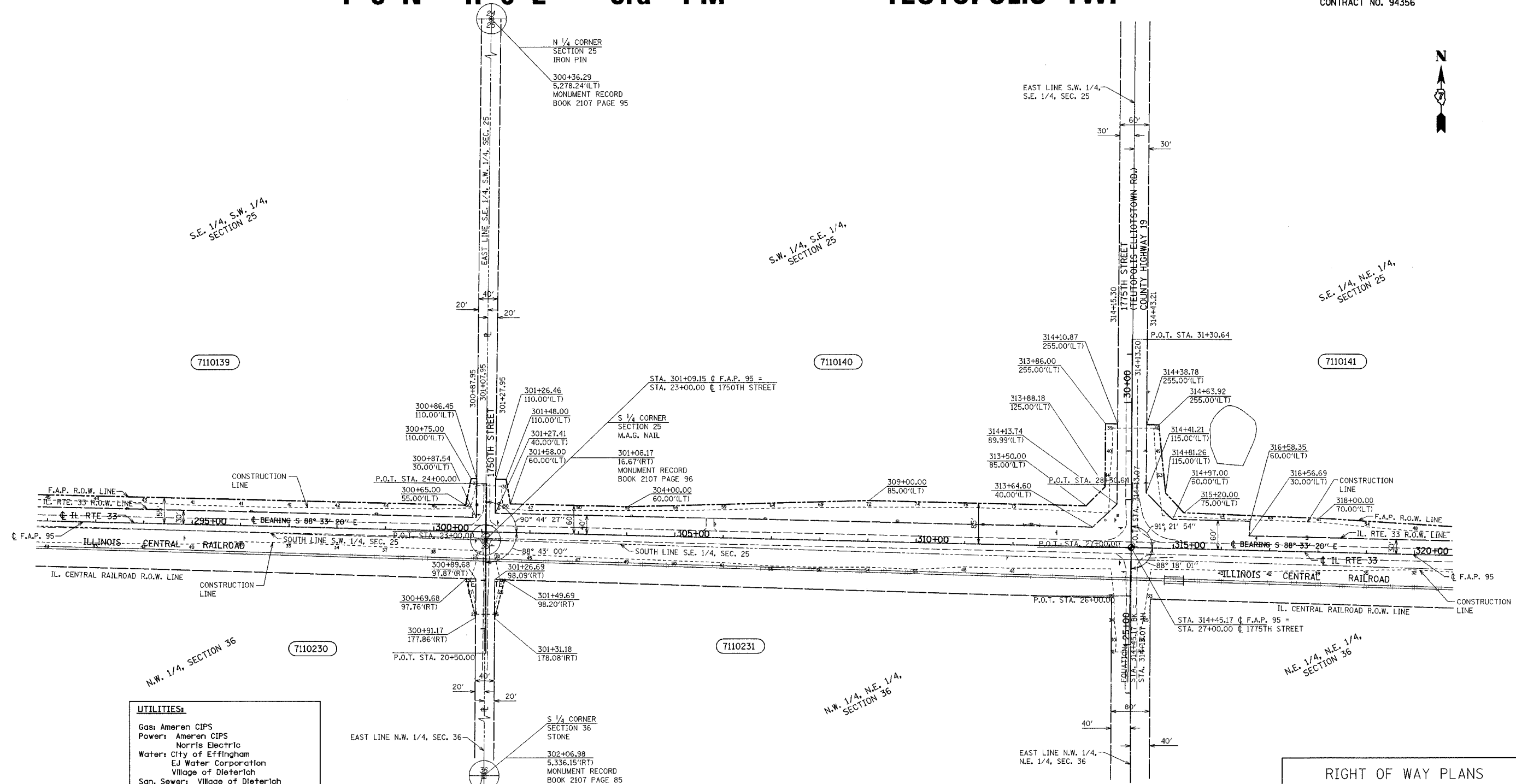
T 8 N R 6 E 3rd PM

TEUTOPOLIS TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	391
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



•DGN-SPEC•  
•DATE•



**UTILITIES:**  
 Gas: Ameren CIPS  
 Power: Ameren CIPS  
       Norris Electric  
 Water: City of Effingham  
       EJ Water Corporation  
       Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
             Frontier Communications  
             Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
           Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110139	Emma Christine Koerberlein et al	33,835			34,883 AC.							
7110140	William Buenker	49,918			36,084 AC.							
7110141	Leroy Clemens Wernsing	39,128			75,195 AC.							
7110230	Lorraine Deters Trustee			800								
7110231	Lorraine Deters Trustee			800								

**RIGHT OF WAY PLANS**  
 FAP ROUTE 95  
 PROJECT SECTION (5,6,7) Y, RS-1  
 STATION 293+00 TO  
 STATION 319+00  
 COUNTY EFFINGHAM  
 SCALE 1"=100' SHEET 9 OF 27

(R) RECORDED DISTANCE  
 ○ - IRON PIN  
 ● - IRON PIPE  
 ■ - NAIL  
 □ - NAIL

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

JOB NO. R-97-010-01 CONTRACT NO 94356

T 8 N R 6 E 3rd PM  
T 8 N R 7 E 3rd PM

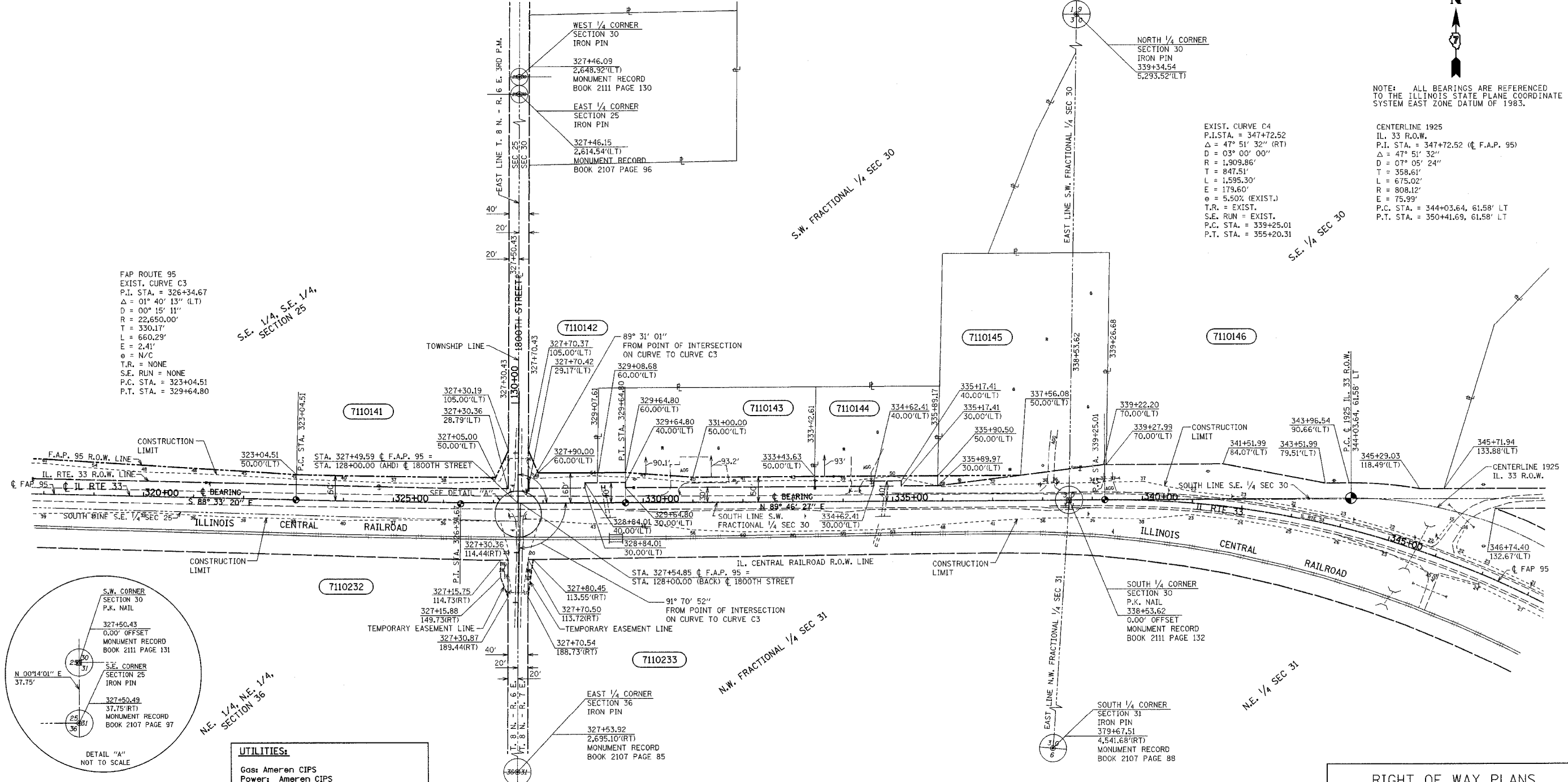
TEUTOPOLIS TWP  
ST. FRANCIS TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	392
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				

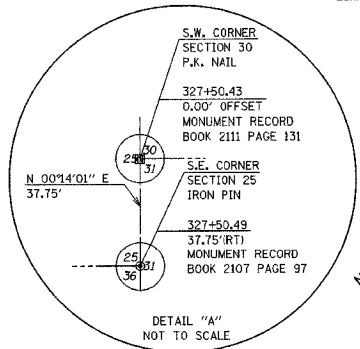
NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

CENTERLINE 1925  
IL. 33 R.O.W.  
P.I. STA. = 347+72.52 (C F.A.P. 95)  
Δ = 47° 51' 32"  
D = 03° 00' 00"  
R = 1,909.86'  
T = 847.51'  
L = 1,595.30'  
E = 179.60'  
θ = 5.50% (EXIST.)  
T.R. = EXIST.  
S.E. RUN = EXIST.  
P.C. STA. = 339+25.01  
P.T. STA. = 355+20.31

EXIST. CURVE C4  
P.I. STA. = 347+72.52  
Δ = 47° 51' 32" (RT)  
D = 03° 00' 00"  
R = 1,909.86'  
T = 847.51'  
L = 1,595.30'  
E = 179.60'  
θ = 5.50% (EXIST.)  
T.R. = EXIST.  
S.E. RUN = EXIST.  
P.C. STA. = 339+25.01  
P.T. STA. = 355+20.31



FAP ROUTE 95  
EXIST. CURVE C3  
P.I. STA. = 326+34.67  
Δ = 01° 40' 13" (LT)  
D = 00° 15' 11"  
R = 22,650.00'  
T = 330.17'  
L = 660.29'  
E = 2.41'  
θ = N/C  
T.R. = NONE  
S.E. RUN = NONE  
P.C. STA. = 323+04.51  
P.T. STA. = 329+64.80



**UTILITIES:**  
Gas: Ameren CIPS  
Power: Ameren CIPS  
Norris Electric  
Water: City of Effingham  
EJ Water Corporation  
Village of Dieterloh  
San. Sewer: Village of Dieterloh  
Telephone: Consolidated Communications  
Frontier Communications  
Montrose Mutual  
CATV: Clear Vision Systems Inc.  
Pipeline: Trunkline Gas  
Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110141	Leroy Clemens Wernsing	39,128			75,195 AC.							
7110142	Helen Wernsing et al	4,380			55,182 AC.							
7110143	Raymond and Karen Drees	9,371			1,769 AC.							
7110144	John B. and Charlene C. Westendorf	4,386			1,022 AC.							
7110145	Joseph E. and Kristina Holman et al	1,656			4,221 AC.							
7110146	John E. and Mary Ellen Kramer											
7110232	Michael G. Pais Trustee			825								
7110233	Richard and Lois Kreke Trustees			375								

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED. NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA NOTE: \* OWNERS NAMES OBTAINED FROM COUNTY PLAT BOOKS

RIGHT OF WAY PLANS  
FAP ROUTE 95  
PROJECT SECTION (5,6,7) Y, RS-1  
STATION 319+00 TO  
STATION 347+00  
COUNTY EFFINGHAM  
SCALE 1"=100' SHEET 10 OF 27

•DGN-SPEC•  
•DATE•

K.M.S.  
DRAWN BY  
WRITTEN BY  
CHECKED BY  
INSPECTED BY

(R) RECORDED DISTANCE  
● - IRON PIN  
○ - IRON PIPE  
■ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356

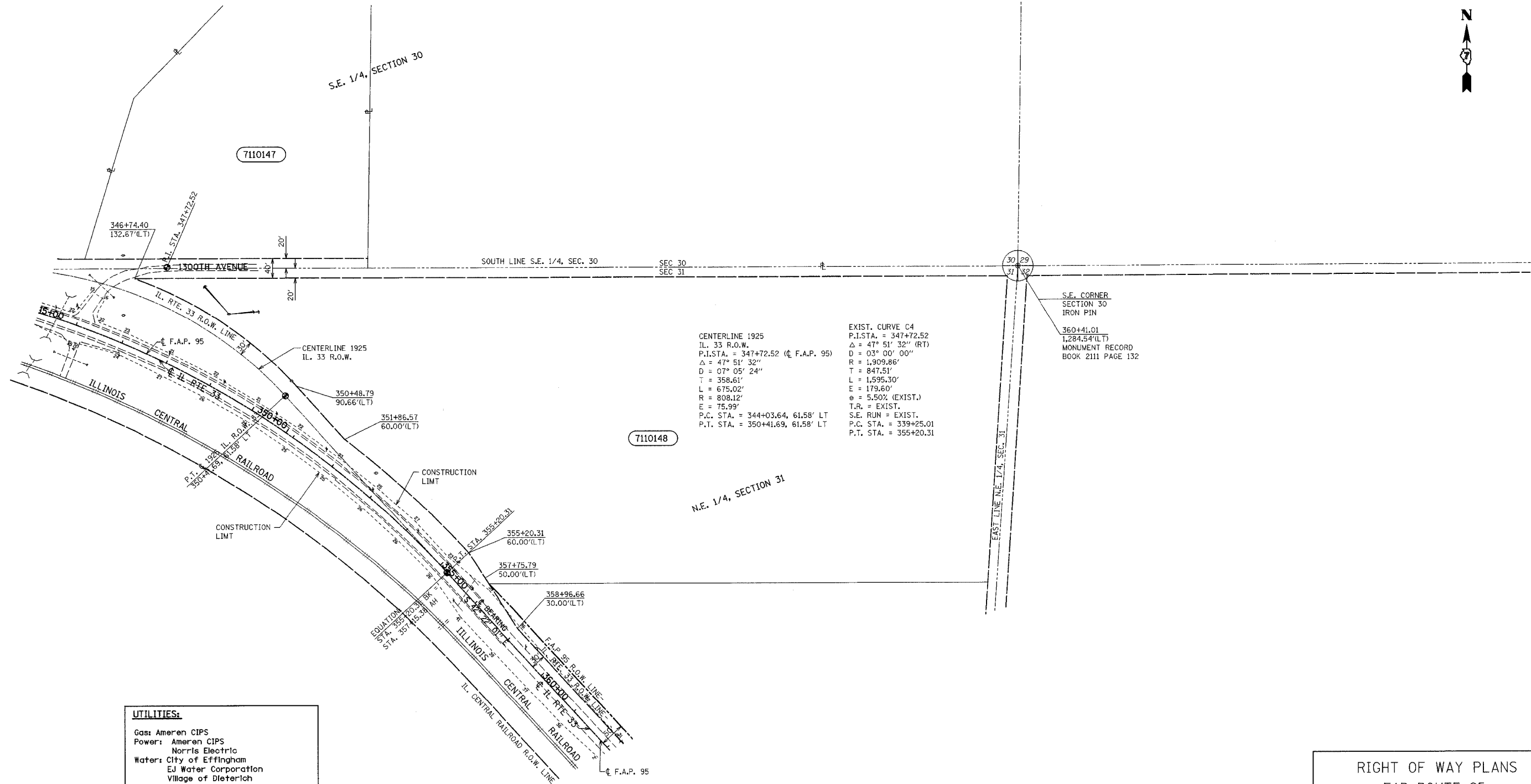
VASCONCELLES ENGINEERING CORPORATION (VEC\* 250-021) ENGINEERS - CONSULTANTS SPRINGFIELD, ILLINOIS

# T 8 N R 7 E 3rd PM ST. FRANCIS TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	393
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



• DGN-SPEC •  
• DATE •



CENTERLINE 1925  
IL. 33 R.O.W.  
P.I. STA. = 347+72.52 (C. F.A.P. 95)  
Δ = 47° 51' 32"  
D = 07° 05' 24"  
T = 358.61'  
L = 675.02'  
R = 808.12'  
E = 75.99'  
P.C. STA. = 344+03.64, 61.58' LT  
P.T. STA. = 350+41.69, 61.58' LT

EXIST. CURVE C4  
P.I. STA. = 347+72.52  
Δ = 47° 51' 32" (RT)  
D = 03° 00' 00"  
R = 1,909.86'  
T = 847.51'  
L = 1,595.30'  
E = 179.60'  
e = 5.50% (EXIST.)  
T.R. = EXIST.  
S.E. RUN = EXIST.  
P.C. STA. = 339+25.01  
P.T. STA. = 355+20.31

S.E. CORNER  
SECTION 30  
IRON PIN  
360+41.01  
1,284.54'(LT)  
MONUMENT RECORD  
BOOK 2111 PAGE 132

**UTILITIES:**

- Gas: Ameren CIPS
- Power: Ameren CIPS
- Norris Electric
- Water: City of Effingham
- EJ Water Corporation
- Village of Dieterich
- San. Sewer: Village of Dieterich
- Telephone: Consolidated Communications
- Frontier Communications
- Montrorse Mutual
- CATV: Clear Vision Systems Inc.
- Pipeline: Trunkline Gas
- Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110148	Gertrude C. Kreke Trust et al	29,209			31,580 AC							

RIGHT OF WAY PLANS  
FAP ROUTE 95  
PROJECT SECTION (5,6,7) Y, RS-1  
STATION 347+00 TO  
STATION 361+00  
COUNTY EFFINGHAM  
SCALE 1"=100' SHEET 11 OF 27

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.  
NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

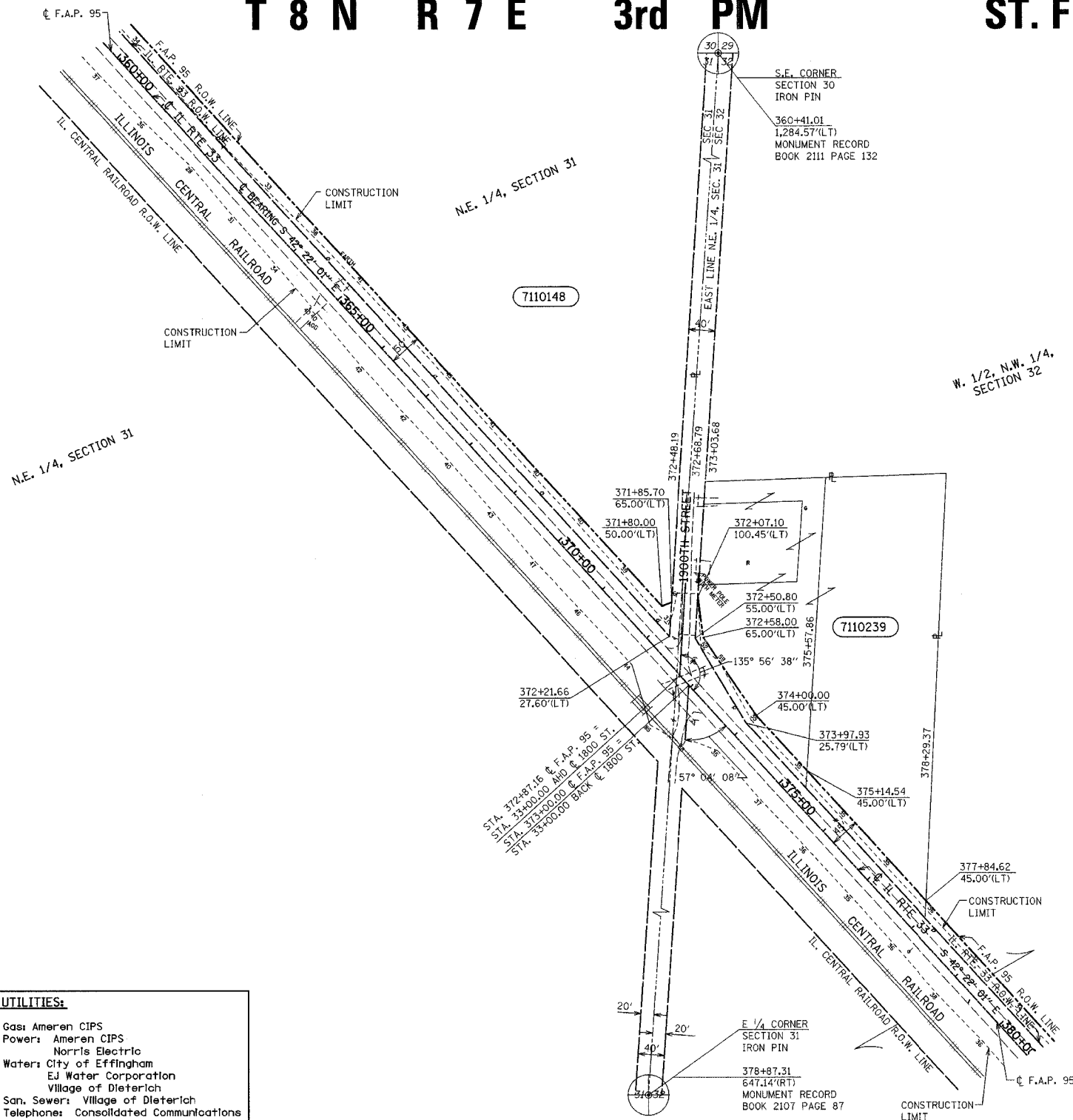
NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1903.

DRAWN BY K.M.S.  
WRITTEN BY T.I.P.  
CHECKED BY T.I.P.  
INSPECTED BY T.I.P.

JOB NO. R-97-010-01 CONTRACT NO 94356

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	394
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				

# T 8 N R 7 E 3rd PM ST. FRANCIS TWP



**UTILITIES:**

Gas: Ameron CIPS  
 Power: Ameron CIPS  
 Norris Electric  
 Water: City of Effingham  
 E.J. Water Corporation  
 Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
 Frontier Communications  
 Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipelines: Trunkline Gas  
 Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110148	Gertrude C. Kreke Trust et al	29,209			31,580 AC							
7110149	Dale K., John L., and Gary L. Esker	14,509			71,811 AC							
7110239	Irvin R. & Joleen Hoene	10,111			3,812 AC							

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

**RIGHT OF WAY PLANS**  
**FAP ROUTE 95**  
 PROJECT SECTION (5,6,7) Y, RS-1  
 STATION 361+00 TO  
 STATION 379+00  
 COUNTY EFFINGHAM  
 SCALE 1"=100' SHEET 12 OF 27

•DGN-SPEC•  
 •DATE•

DRAWN BY  
 WRITTEN BY  
 CHECKED BY  
 INSPECTED BY

(R) RECORDED DISTANCE

- - IRON PIN
- - IRON PIPE
- - NAIL

JOB NO. R-97-010-01

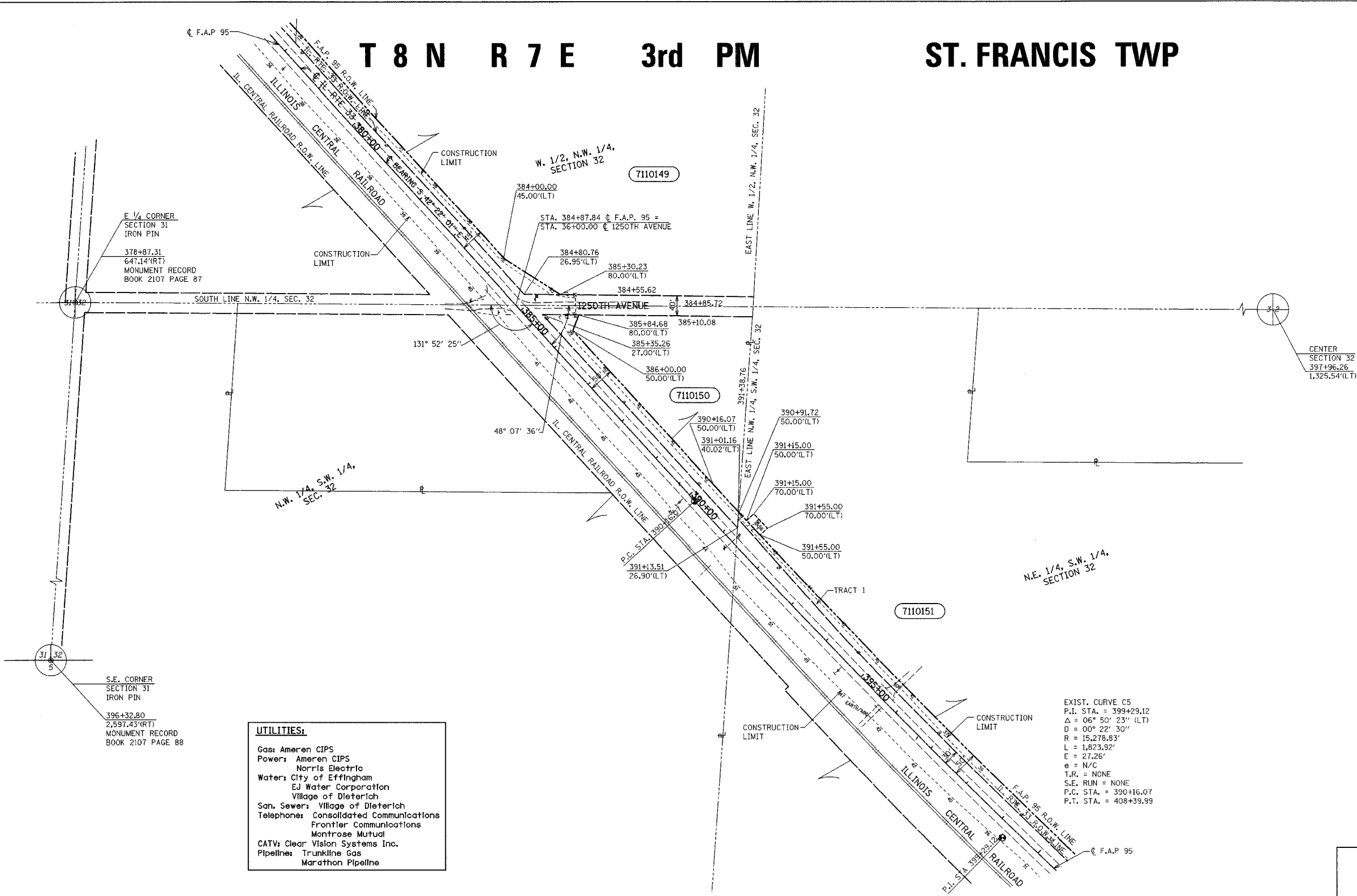
CONTRACT NO 94356

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	395
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				

# T 8 N R 7 E 3rd PM ST. FRANCIS TWP



UTILITIES:	
Gas:	Ameren CIPS
Power:	Ameren CIPS Norris Electric
Water:	City of Effingham EJ Water Corporation Village of Dieterich
San. Sewer:	Village of Dieterich
Telephone:	Consolidated Communications Frontier Communications Montrose Mutual
CATV:	Clear Vision Systems Inc.
Pipeline:	Trunkline Gas Marathon Pipeline

EXIST. CURVE C5  
P.I. STA. = 399+29.12  
Δ = 06° 50' 23" (LT)  
D = 00° 22' 30"  
R = 15,278.83'  
L = 1,823.92'  
E = 27.26'  
e = N/C  
T.R. = NONE  
S.E. RUN = NONE  
P.C. STA. = 390+16.07  
P.T. STA. = 408+39.99

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110149	Dale K., John L., And Gary L. Esker	14,509			71.811 AC							
7110150	Gerald Zerrusen	13,395			32.812 AC							
7110151	Randall and Linda Kemme	28,960		798	66.396 AC							
	Tract 1	28,799										
	Tract 2	161										

**RIGHT OF WAY PLANS**  
**FAP ROUTE 95**  
PROJECT SECTION (5,6,7) Y, RS-1  
STATION 379+00 TO  
STATION 399+00  
COUNTY EFFINGHAM  
SCALE 1"=100' SHEET 13 OF 27

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

• DGN-SPEC •  
• DATE •

DRAWN BY \_\_\_\_\_  
WRITTEN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_  
INSPECTED BY \_\_\_\_\_

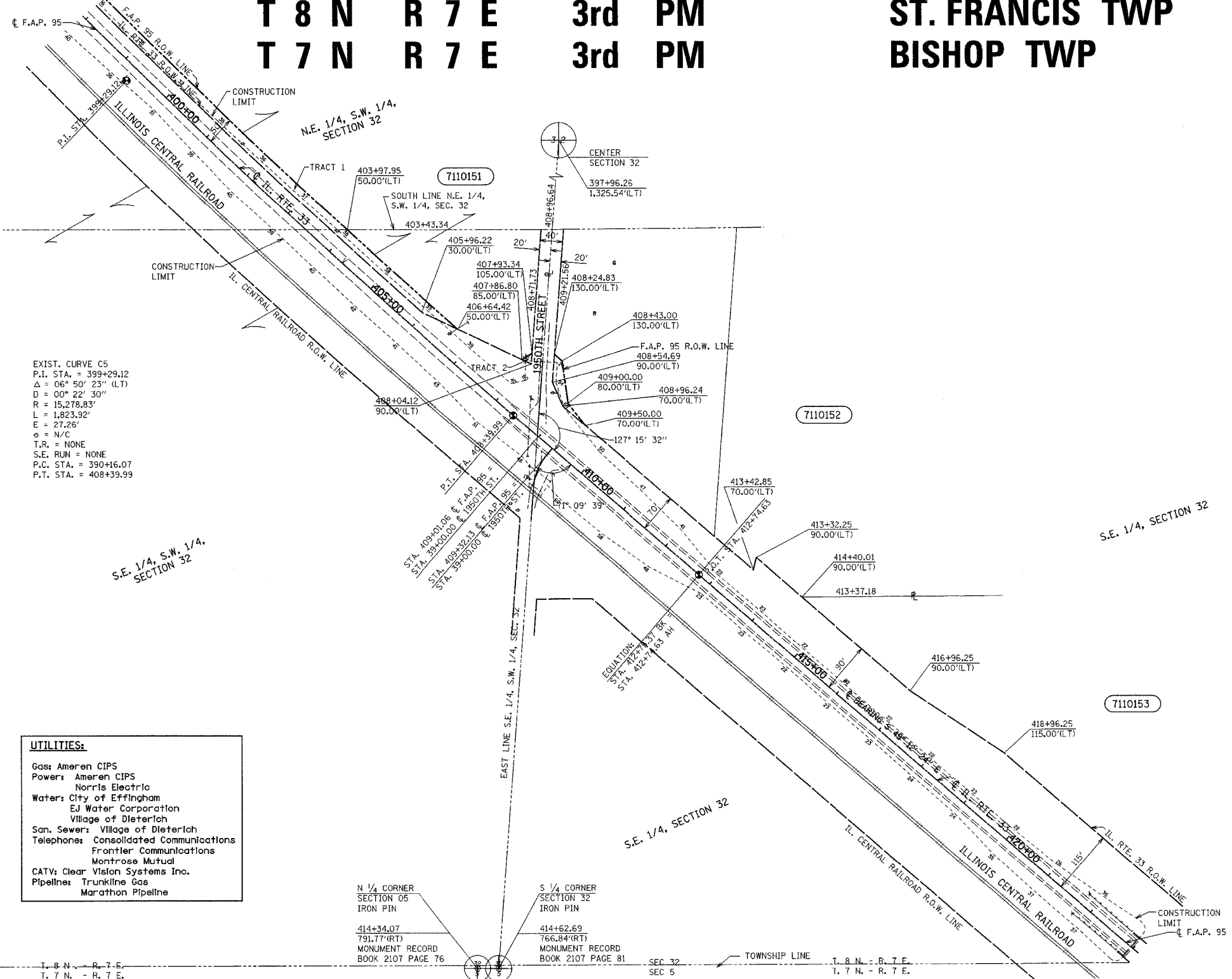
(R) RECORDED DISTANCE  
● - IRON PIN  
○ - IRON PIPE  
■ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	396
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* (6.7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				

**ST. FRANCIS TWP**  
**BISHOP TWP**

**T 8 N R 7 E 3rd PM**  
**T 7 N R 7 E 3rd PM**



EXIST. CURVE C5  
P.I. STA. = 399+29.12  
Δ = 06° 50' 23" (LT)  
D = 00° 22' 30"  
R = 15,278.83'  
L = 1,823.92'  
E = 27.26'  
e = N/C  
T.R. = NONE  
S.E. RUN = NONE  
P.C. STA. = 390+16.07  
P.T. STA. = 408+39.99

**UTILITIES:**

- Gas: Ameren CIPS
- Power: Ameren CIPS  
Norris Electric
- Water: City of Effingham  
EJ Water Corporation  
Village of Dieterich
- San. Sewer: Village of Dieterich
- Telephone: Consolidated Communications  
Frontier Communications  
Montrose Mutual
- CATV: Clear Vision Systems Inc.
- Pipeline: Trunkline Gas  
Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110151	Randal and Linda Kemme Tract 1 Tract 2	28,960 28,799 161		798	66,396 AC							
7110152	Dean R. and Jennifer Deters	1,723			18,047 AC							

**RIGHT OF WAY PLANS**  
**FAP ROUTE 95**  
PROJECT SECTION (5,6,7) Y RS-1  
STATION 399+00 TO  
STATION 422+00  
COUNTY EFFINGHAM  
SCALE 1"=100' SHEET 14 OF 27

•DGN-SPEC•  
•DATE•

K.M.S.  
DRAWN BY  
WRITTEN BY  
CHECKED BY  
INSPECTED BY

(R) RECORDED DISTANCE  
⊙ - IRON PIN  
⊖ - IRON PIPE  
⊞ - NAIL

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

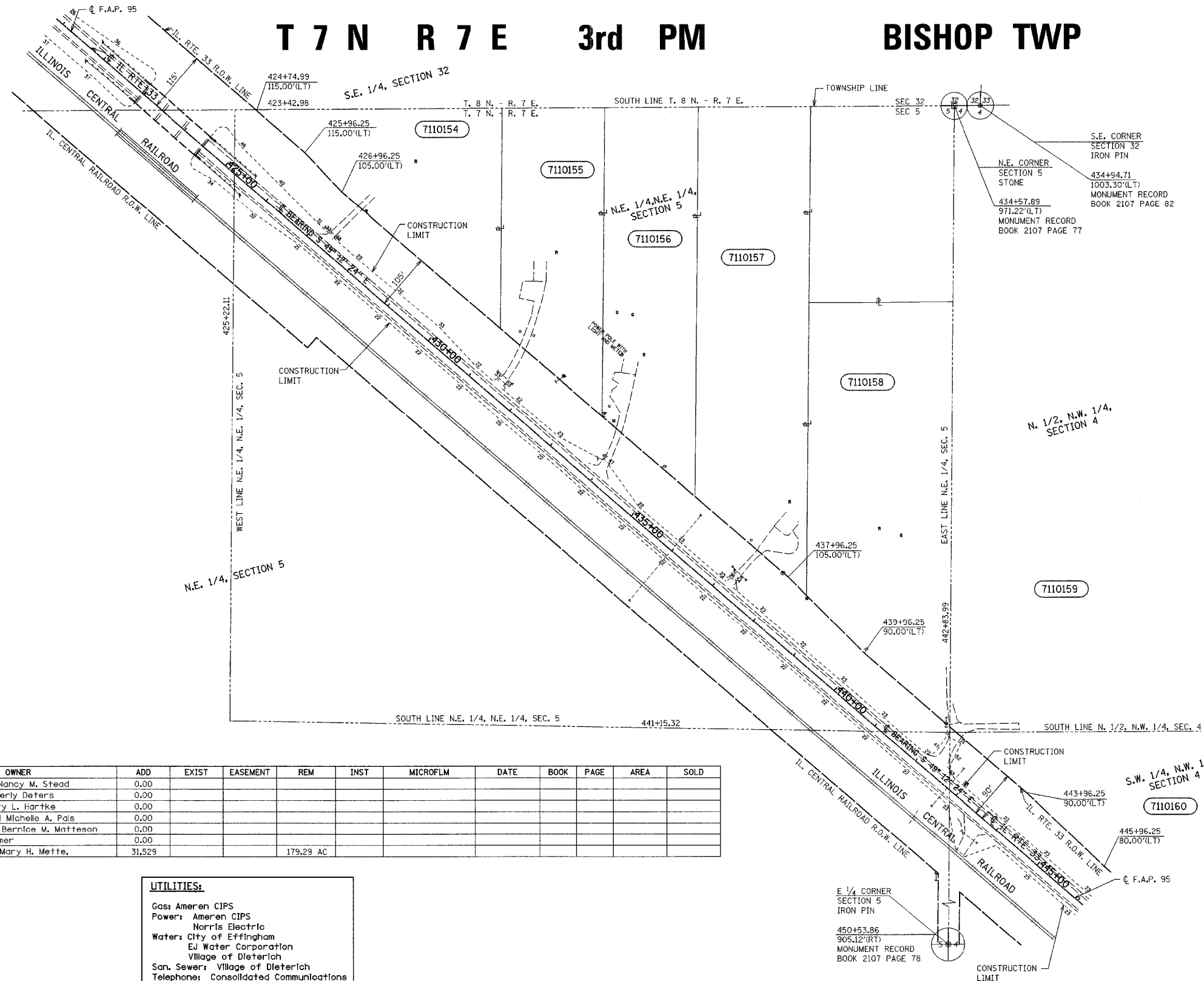
NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

JOB NO. R-97-010-01 CONTRACT NO 94356

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	397
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				

# T 7 N R 7 E 3rd PM BISHOP TWP



•DGN-SPEC•  
•DATE•

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110154	Matthew B. and Nancy M. Stead	0.00										
7110155	Patrick and Kimberly Deters	0.00										
7110156	Ronald L and Mary L. Hartke	0.00										
7110157	Anthony Earl and Michelle A. Pais	0.00										
7110158	Walter Dean and Bernice M. Matteson	0.00										
7110159	Leonard A. Brummer	0.00										
7110160	Lawrence L and Mary H. Mette,	31,529			179.29 AC							

DRAWN BY \_\_\_\_\_  
WRITTEN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_  
INSPECTED BY \_\_\_\_\_

**UTILITIES:**

- Gas: Ameren CIPS
- Power: Ameren CIPS
- Norris Electric
- Water: City of Effingham
- EJ Water Corporation
- Village of Dieterich
- San. Sewer: Village of Dieterich
- Telephone: Consolidated Communications
- Frontier Communications
- Montrose Mutual
- CATV: Clear Vision Systems Inc.
- Pipeline: Trunkline Gas
- Marathon Pipeline

(R) RECORDED DISTANCE  
● - IRON PIN  
○ - IRON PIPE  
□ - NAIL  
■ - STONE

JOB NO. R-97-010-01 CONTRACT NO 94356

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

**RIGHT OF WAY PLANS**  
**FAP ROUTE 95**

PROJECT SECTION (5,6,7) Y RS-1

STATION 422+00 TO  
STATION 445+00

COUNTY EFFINGHAM

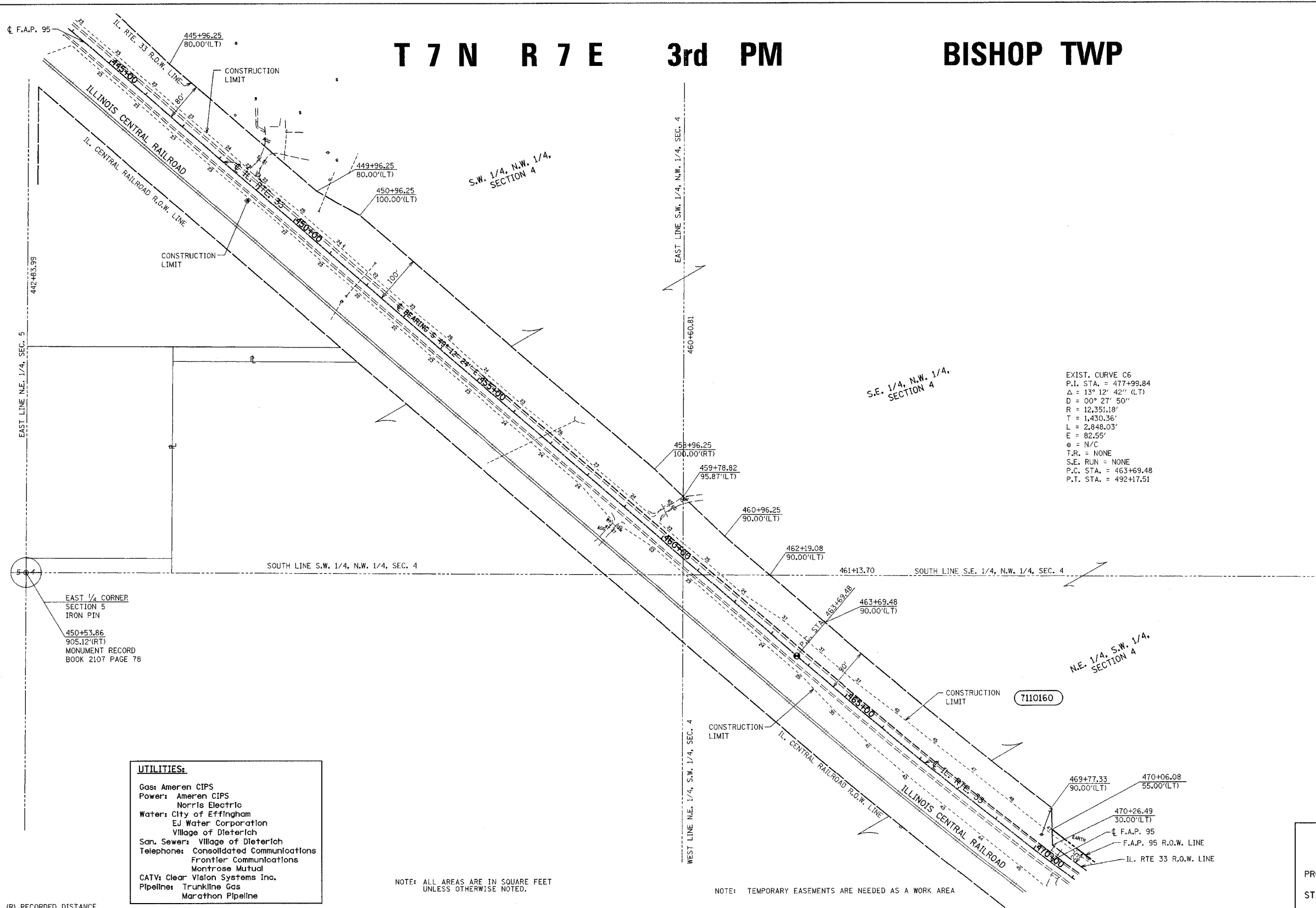
SCALE 1"=100' SHEET 15 OF 27

# T 7 N R 7 E 3rd PM BISHOP TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	398

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT  
 \* (6,7)Y, RS-1, 6B-1, 7B-1 & 7B-2  
 CONTRACT NO. 94356

NORTH 1/4 CORNER  
 SECTION 4  
 IRON PIN  
 455+14.55  
 2,762.83'(L.T.)  
 MONUMENT RECORD  
 BOOK 2110 PAGE 176



**UTILITIES:**  
 Gas: Ameren CIPS  
 Power: Ameren CIPS  
 Water: City of Effingham  
       EJ Water Corporation  
       Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
             Frontier Communications  
             Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
           Marathon Pipeline

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.  
 NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110160	Lawrence J. and Mary H. Mette	31,529			179,209 AC							

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

**RIGHT OF WAY PLANS**  
 FAP ROUTE 95  
 PROJECT SECTION (5,6,7) Y, RS-1  
 STATION 445+00 TO  
 STATION 470+00  
 COUNTY EFFINGHAM  
 SCALE 1"=100' SHEET 16 OF 27

•DGN-SPEC•  
 •DATE•

K.M.S.  
 DRAWN BY  
 WRITTEN BY  
 CHECKED BY  
 I.T.F.  
 INSPECTED BY  
 T.I.P.

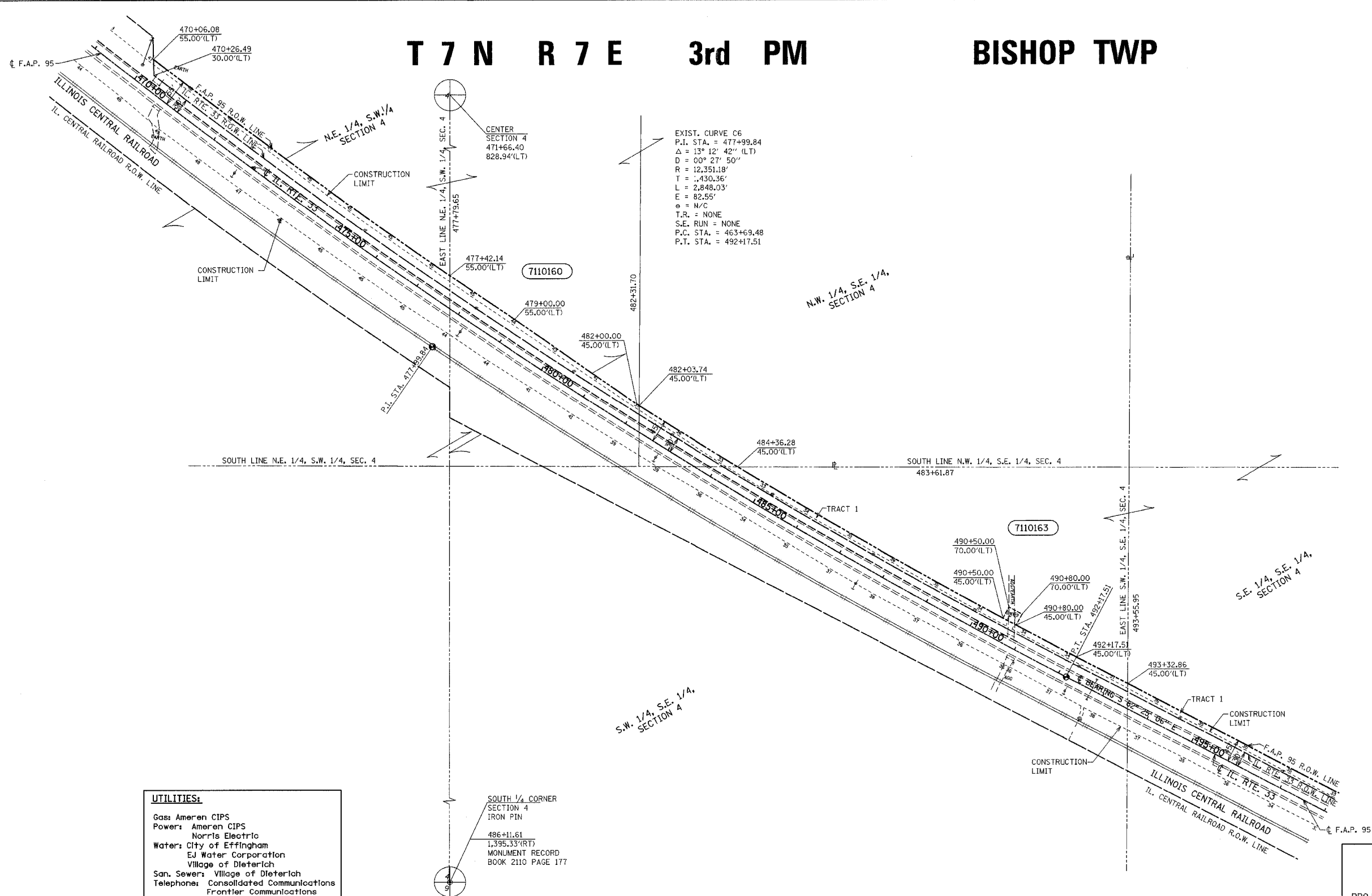
JOB NO. R-97-010-01 CONTRACT NO 94356



# T 7 N R 7 E 3rd PM

# BISHOP TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	399
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



EXIST. CURVE C6  
 P.I. STA. = 477+99.84  
 $\Delta = 33^\circ 12' 42''$  (LT)  
 $D = 00^\circ 27' 50''$   
 $R = 12,351.18'$   
 $T = 1,430.36'$   
 $L = 2,848.03'$   
 $E = 82.55'$   
 $\phi = N/C$   
 $T.R. = NONE$   
 $S.E. RUN = NONE$   
 $P.C. STA. = 463+69.48$   
 $P.T. STA. = 492+17.51$

**UTILITIES:**  
 Gas: Ameren CIPS  
 Power: Ameren CIPS  
         Norris Electric  
 Water: City of Effingham  
         EJ Water Corporation  
         Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
                 Frontier Communications  
                 Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
                 Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110160	Lawrence J. and Mary H. Mette	31,529			179,204 AC							
7110163	Jerome F. Brummer Tract 1 Tract 2	44,560 39,749 4,811		747	79,583 AC							

RIGHT OF WAY PLANS  
 FAP ROUTE 95  
 PROJECT SECTION (5,6,7) Y RS-1  
 STATION 470+00 TO  
 STATION 497+00  
 COUNTY EFFINGHAM  
 SCALE 1"=100' SHEET 17 OF 27

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

•DGN-SPEC•  
 •DATE•

K.M.S.  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY T.T.P.  
 INSPECTED BY J.T.P.

JOB NO. R-97-010-01 CONTRACT NO 94356

# T 7 N R 7 E 3rd PM

# BISHOP TWP

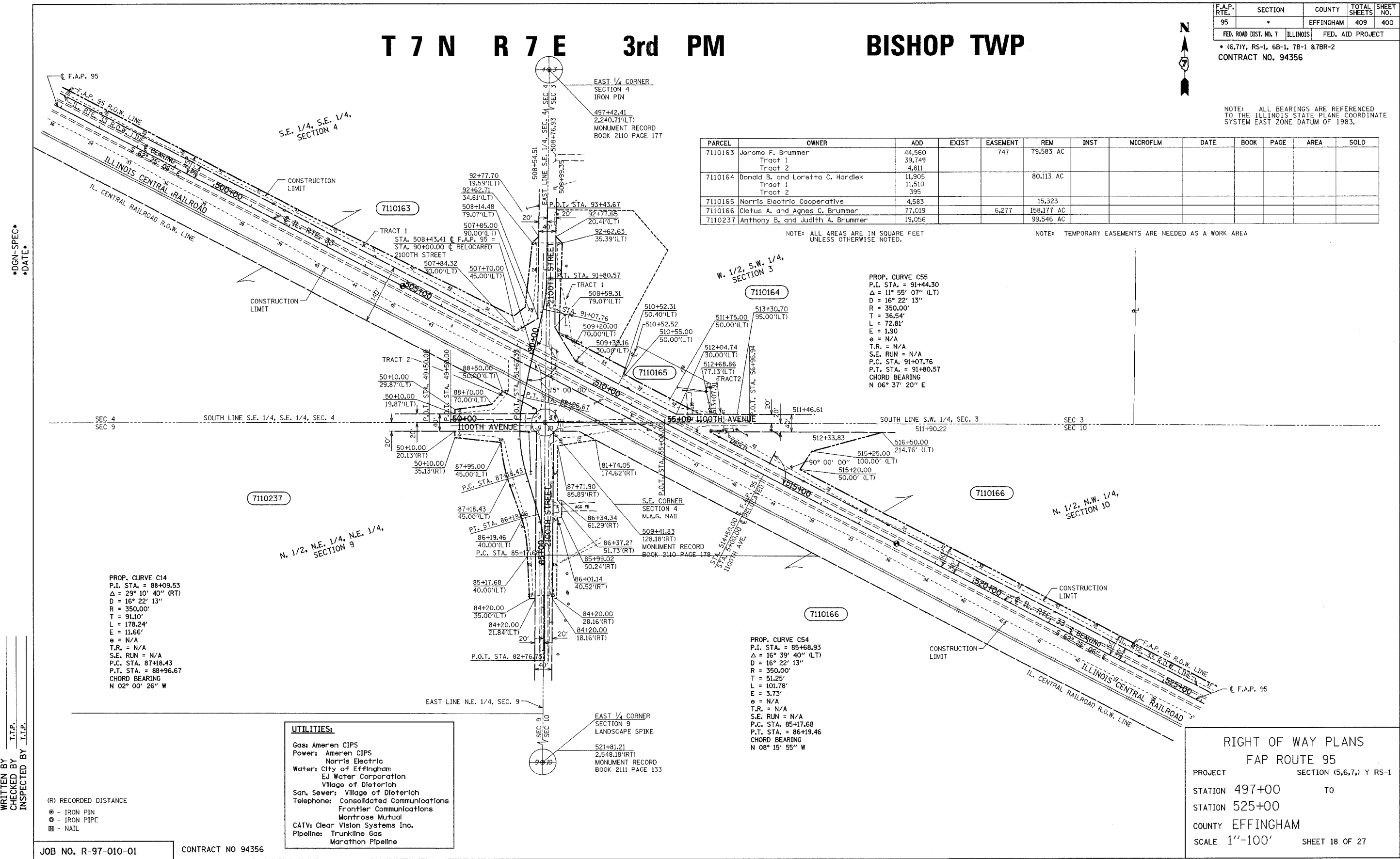
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	400
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110163	Jerome F. Brummer Tract 1	44,560		747	79,583 AC							
	Tract 2	39,749										
7110164	Donald B. and Loretta C. Hardlek Tract 1	11,905			80,113 AC							
	Tract 2	11,510										
7110165	Norris Electric Cooperative	4,583			15,323							
7110166	Cletus A. and Agnes C. Brummer	77,019		6,277	158,177 AC							
7110237	Anthony B. and Judith A. Brummer	19,056			99,546 AC							

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED. NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA



PROP. CURVE C14  
P.I. STA. = 88+09.53  
Δ = 29° 10' 40" (RT)  
D = 16° 22' 13"  
R = 350.00'  
T = 91.10'  
L = 178.24'  
E = 11.66'  
θ = N/A  
T.R. = N/A  
S.E. RUN = N/A  
P.C. STA. 87+18.43  
P.T. STA. = 88+96.67  
CHORD BEARING  
N 02° 00' 26" W

PROP. CURVE C55  
P.I. STA. = 91+44.30  
Δ = 11° 55' 07" (LT)  
D = 16° 22' 13"  
R = 350.00'  
T = 36.54'  
L = 72.81'  
E = 1.90'  
θ = N/A  
T.R. = N/A  
S.E. RUN = N/A  
P.C. STA. 91+07.76  
P.T. STA. = 91+80.57  
CHORD BEARING  
N 06° 37' 20" E

PROP. CURVE C54  
P.I. STA. = 85+68.93  
Δ = 16° 39' 40" (LT)  
D = 16° 22' 13"  
R = 350.00'  
T = 51.25'  
L = 101.78'  
E = 3.73'  
θ = N/A  
T.R. = N/A  
S.E. RUN = N/A  
P.C. STA. 85+17.68  
P.T. STA. = 86+19.46  
CHORD BEARING  
N 08° 15' 55" W

**UTILITIES:**

Gas:	Ameren CIPS
Power:	Ameren CIPS
	Norris Electric
Water:	City of Effingham
	EJ Water Corporation
	Village of Dieterich
San. Sewer:	Village of Dieterich
Telephone:	Consolidated Communications
	Frontier Communications
	Montrose Mutual
CATV:	Clear Vision Systems Inc.
Pipeline:	Trunkline Gas
	Marathon Pipeline

(R) RECORDED DISTANCE  
● - IRON PIN  
○ - IRON PIPE  
■ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356

RIGHT OF WAY PLANS  
FAP ROUTE 95  
PROJECT SECTION (5,6,7) Y RS-1  
STATION 497+00 TO  
STATION 525+00  
COUNTY EFFINGHAM  
SCALE 1"=100' SHEET 18 OF 27

DRAWN BY  
WRITTEN BY  
CHECKED BY  
INSPECTED BY

K.M.S.  
T.T.P.  
J.T.P.

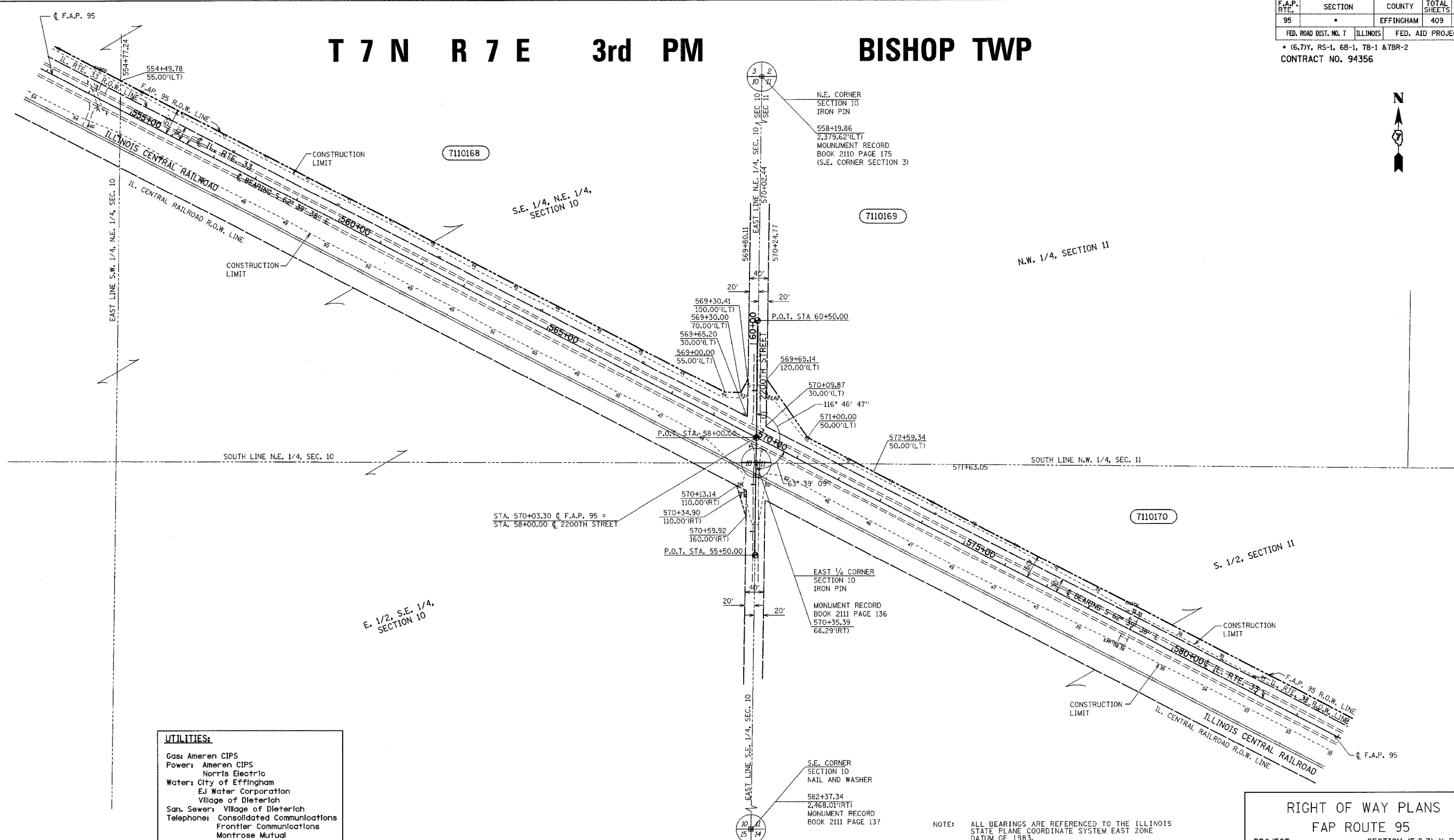


# T 7 N R 7 E 3rd PM BISHOP TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	402
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
• (6.7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



•DGN-SPEC•  
•DATE•



**UTILITIES:**  
 Gas: Ameren CIPS  
 Power: Ameren CIPS  
 Water: City of Effingham  
       Norris Electric  
       EJ Water Corporation  
       Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
             Frontier Communications  
             Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
           Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110168	Hartke Farms, Inc.	68,608		544	240,940 AC							
7110169	James, Nancy, Larry and Rose Ann Westendorf	8,206			49.46 AC							
7110170	Donald E. and Norma J. Probst	34,173			49.82 AC							

**RIGHT OF WAY PLANS**  
**FAP ROUTE 95**  
 PROJECT SECTION (5,6,7) Y RS-1  
 STATION 554+00 TO  
 STATION 583+00  
 COUNTY EFFINGHAM  
 SCALE 1"=100' SHEET 20 OF 27

(R) RECORDED DISTANCE  
 ● - IRON PIN  
 ○ - IRON PIPE  
 ■ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

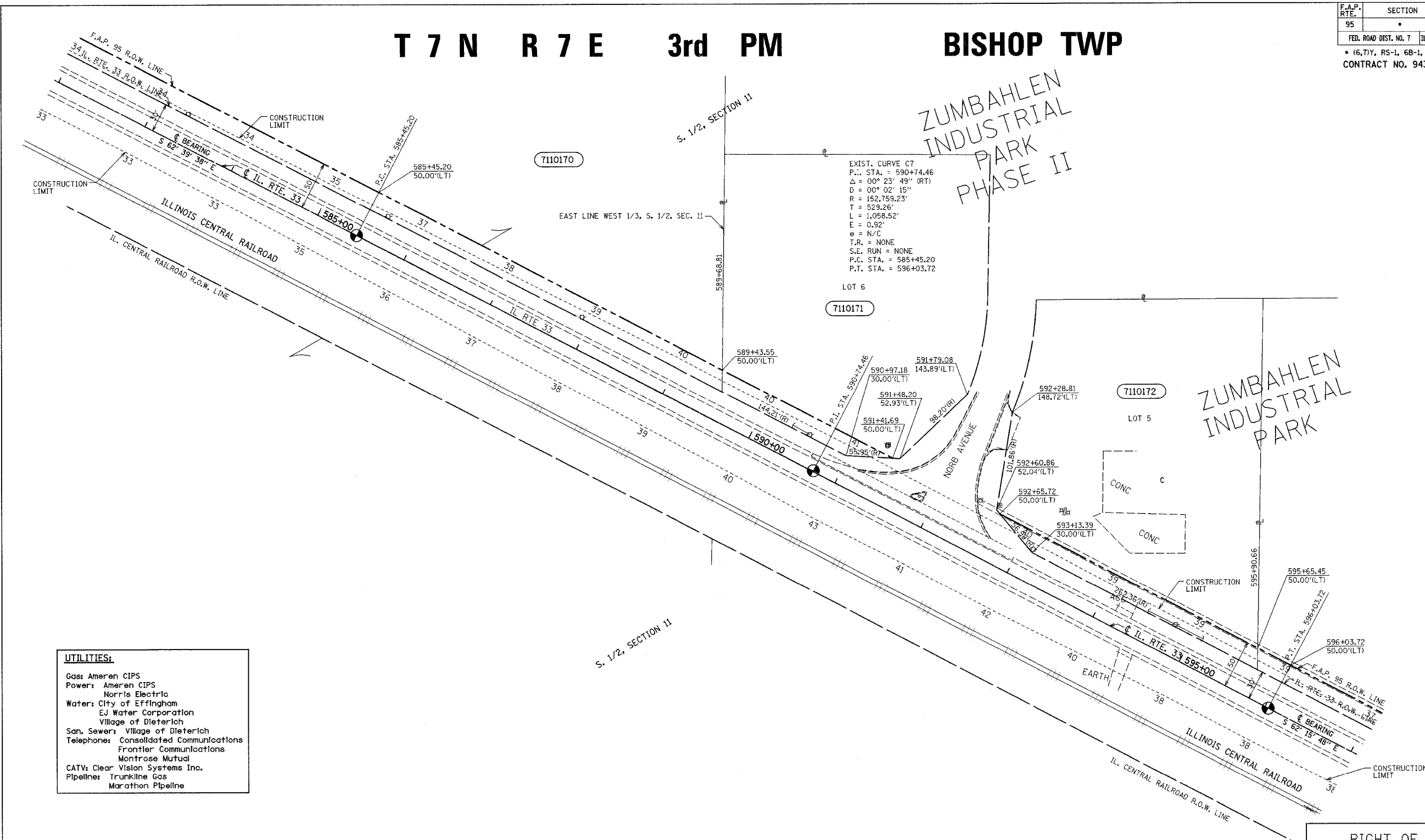
T 7 N R 7 E 3rd PM

BISHOP TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	403
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



•DGN-SPEC•  
•DATE•



**UTILITIES:**

- Gas: Ameren CIPS
- Power: Ameren CIPS, Norris Electric
- Water: City of Effingham, EJ Water Corporation, Village of Dieterich
- San. Sewer: Village of Dieterich
- Telephone: Consolidated Communications, Frontier Communications, Montrose Mutual
- CATV: Clear Vision Systems Inc.
- Pipeline: Trunkline Gas, Marathon Pipeline

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110170	Donald E. and Norma J. Probst	34,173			49.82 AC							
7110171	Robert H. and Alice T. Zumbahlen	3,418			1.679 AC							
7110172	Mark T. Niemerg	5,621			1.708 AC							

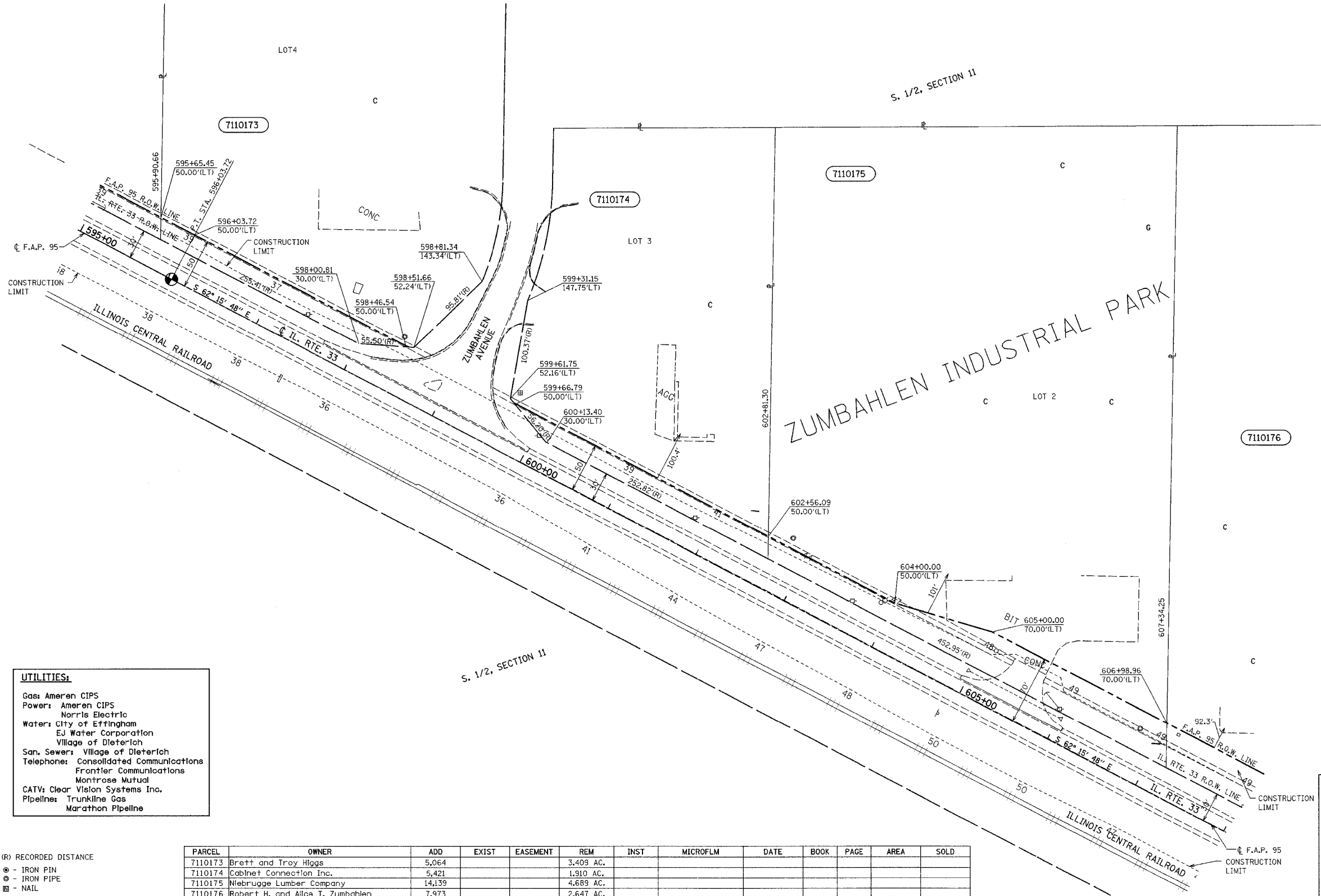
(R) RECORDED DISTANCE  
 ● - IRON PIN  
 ○ - IRON PIPE  
 ■ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356

**RIGHT OF WAY PLANS**  
 FAP ROUTE 95  
 PROJECT SECTION (5,6,7) Y RS-1  
 STATION 583+00 TO 596+00  
 COUNTY EFFINGHAM  
 SCALE 1"=50' SHEET 21 OF 27

T 7 N R 7 E 3rd PM BISHOP TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	EFFINGHAM	409	404
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



•DGN-SPEC•  
•DATE•

**UTILITIES:**

Gas: Ameren CIPS  
 Power: Ameren CIPS  
           Norris Electric  
 Water: City of Effingham  
           EJ Water Corporation  
           Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
               Frontier Communications  
               Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
               Marathon Pipeline

K.M.S.  
 DRAWN BY  
 WRITTEN BY  
 CHECKED BY  
 INSPECTED BY

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110173	Brett and Troy Higgs	5,064			3,409 AC.							
7110174	Cabinet Connection Inc.	5,421			1,910 AC.							
7110175	Niebrugge Lumber Company	14,139			4,689 AC.							
7110176	Robert H. and Alce T. Zumbahlen	7,973			2,647 AC.							

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

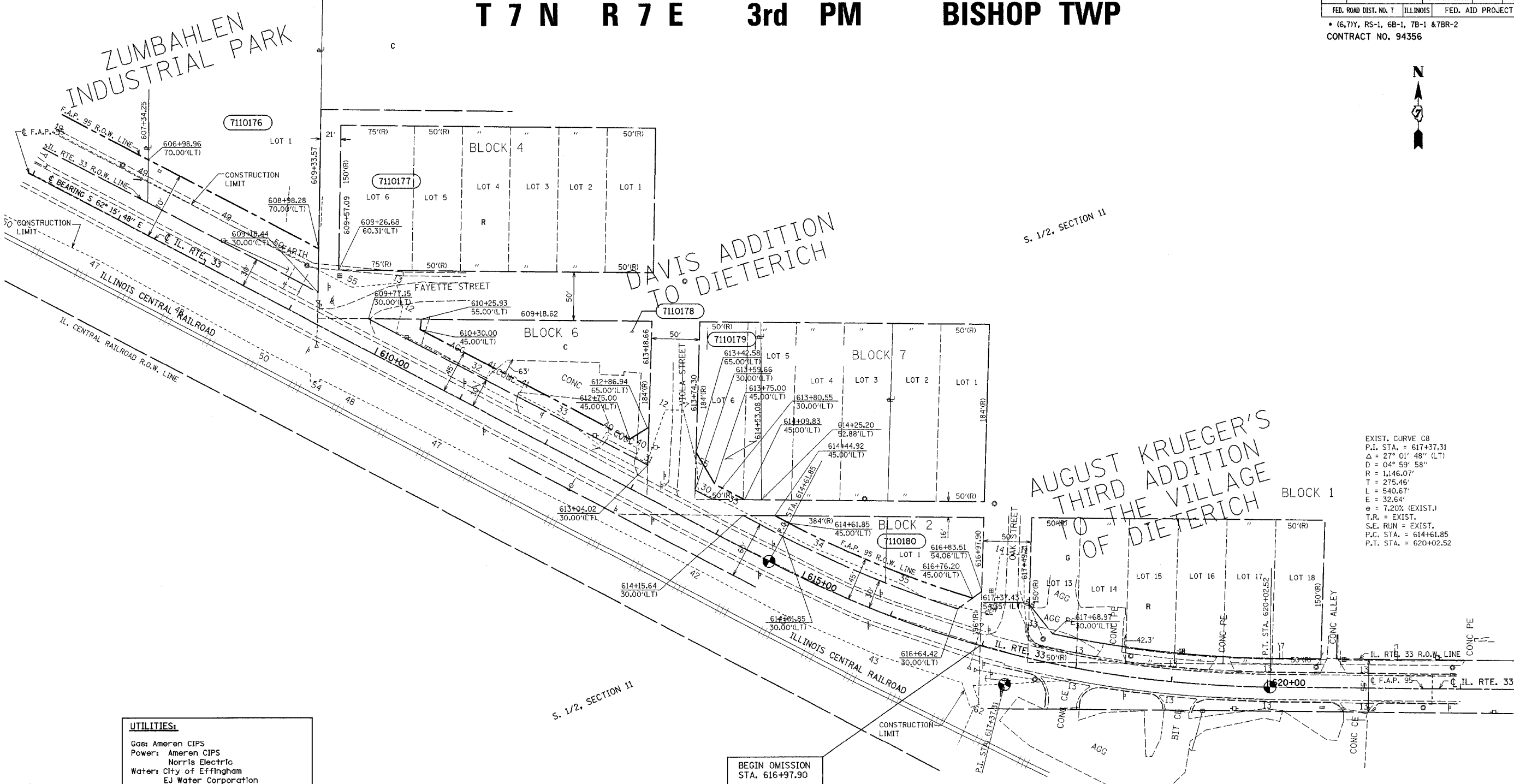
PRELIMINARY

RIGHT OF WAY PLANS  
 FAP ROUTE 95  
 PROJECT SECTION (5,6,7) Y RS-1  
 STATION 596+00 TO 607+00  
 COUNTY EFFINGHAM  
 SCALE 1"=50' SHEET 22 OF 27

JOB NO. R-97-010-01 CONTRACT NO 94356

T 7 N R 7 E 3rd PM BISHOP TWP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	405
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT		
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				



EXIST. CURVE C8  
 P.I. STA. = 617+37.31  
 $\Delta = 27^{\circ} 01' 48''$  (LT)  
 $D = 04^{\circ} 59' 58''$   
 $R = 1,146.07'$   
 $T = 275.46'$   
 $L = 540.67'$   
 $E = 32.64'$   
 $\theta = 7.20\%$  (EXIST.)  
 T.R. = EXIST.  
 S.E. RUN = EXIST.  
 P.C. STA. = 614+61.85  
 P.T. STA. = 620+02.52

**UTILITIES:**  
 Gas: Ameren CIPS  
 Power: Ameren CIPS  
       Norris Electric  
 Water: City of Effingham  
       EJ Water Corporation  
       Village of Dieterich  
 San. Sewer: Village of Dieterich  
 Telephone: Consolidated Communications  
             Frontier Communications  
             Montrose Mutual  
 CATV: Clear Vision Systems Inc.  
 Pipeline: Trunkline Gas  
             Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110176	Robert H. and Alice T. Zumbahlen	7,973			2,647 AC							
7110178	Jesse James	4,964			16,938							
7110179	Chad A. Farley and Holly R. Bunton	814			11,254							
7110180	Nathan A. and Renee D. McClain	3,498			10,277							

RIGHT OF WAY PLANS  
 FAP ROUTE 95  
 PROJECT SECTION (5,6,7) Y RS-1  
 STATION 607+00 TO  
 STATION 622+00  
 COUNTY EFFINGHAM  
 SCALE 1"=50' SHEET 23 OF 27

• DGN-SPEC  
 • DATE

DRAWN BY K.M.S.  
 WRITTEN BY T.T.P.  
 CHECKED BY T.T.P.  
 INSPECTED BY T.T.P.

(R) RECORDED DISTANCE  
 ● - IRON PIN  
 ○ - IRON PIPE  
 ■ - NAIL

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

JOB NO. R-97-010-01 CONTRACT NO 94356

# T 7 N R 7 E 3rd PM BISHOP TWP

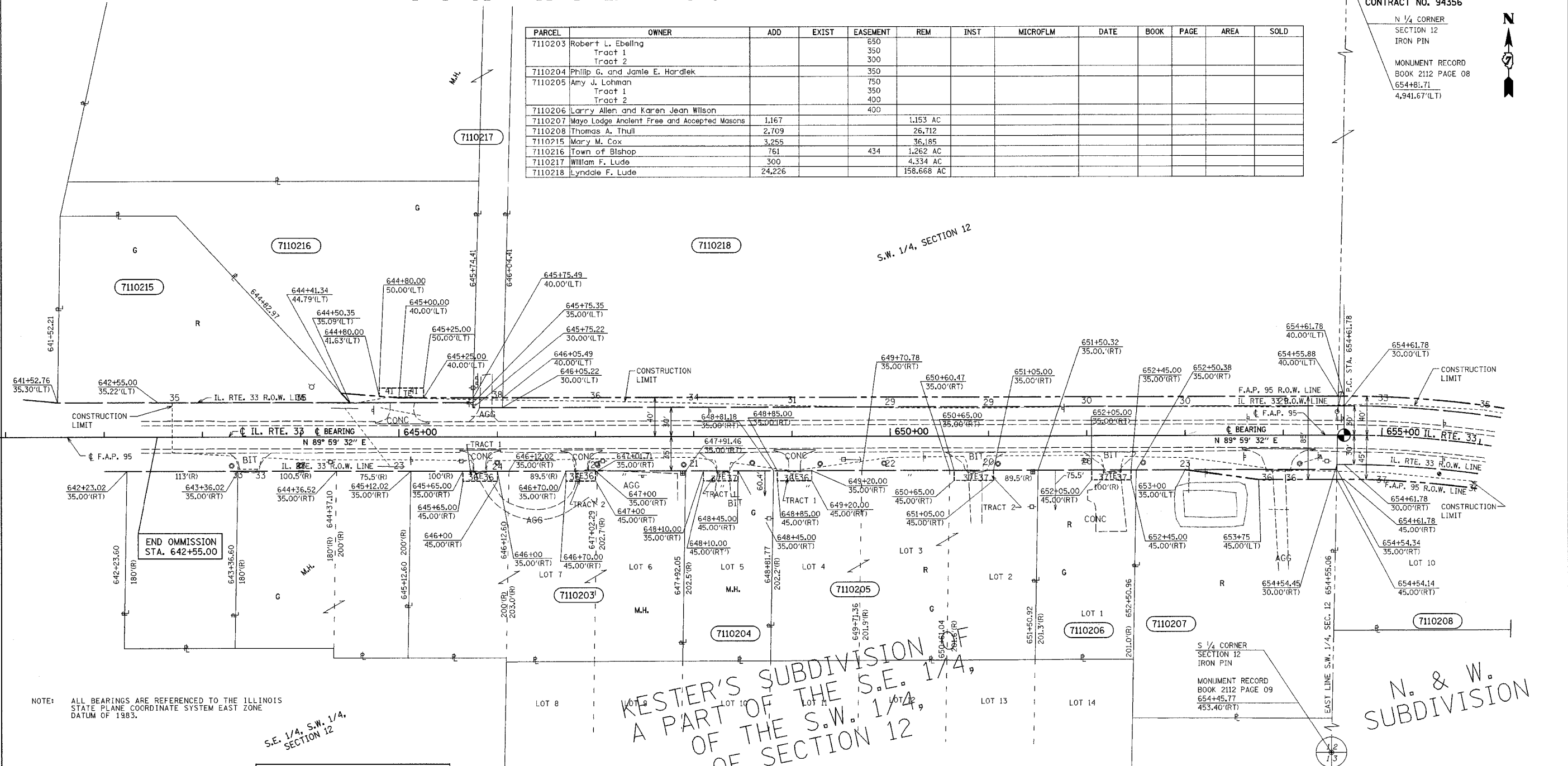
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	12	EFFINGHAM	409	406

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT  
 • (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2  
 CONTRACT NO. 94356

N 1/4 CORNER  
 SECTION 12  
 IRON PIN  
 MONUMENT RECORD  
 BOOK 2112 PAGE 08  
 654+81.71  
 4,941.67'(LT)

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110203	Robert L. Ebeling			550								
	Tract 1			350								
	Tract 2			300								
7110204	Phillip G. and Jamie E. Hardtek			350								
7110205	Amy J. Lohman			750								
	Tract 1			350								
	Tract 2			400								
7110206	Larry Allen and Karen Jean Wilson			400								
7110207	Mayo Lodge Ancient Free and Accepted Masons	1,167			1,153 AC							
7110208	Thomas A. Thull	2,709			26,712							
7110215	Mary M. Cox	3,255			36,185							
7110216	Town of Bishop	761		434	1,262 AC							
7110217	William F. Lude	300			4,334 AC							
7110218	Lyndale F. Lude	24,226			158,668 AC							

•DGN-SPEC  
 •DATE



NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

S.E. 1/4, S.W. 1/4, SECTION 12

**UTILITIES:**

- Gas: Ameren CIPS
- Power: Ameren CIPS
- Norris Electric
- Water: City of Effingham
- EJ Water Corporation
- Village of Dieterich
- San. Sewer: Village of Dieterich
- Telephone: Consolidated Communications
- Frontier Communications
- Montrose Mutual
- CATV: Clear Vision Systems Inc.
- Pipeline: Trunkline Gas
- Marathon Pipeline

(R) RECORDED DISTANCE  
 ● - IRON PIN  
 ○ - IRON PIPE  
 ■ - NAIL

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

**RIGHT OF WAY PLANS**  
 FAP ROUTE 95

PROJECT SECTION 12 (5,6,7) Y RS-1

STATION 641+00 TO 655+00

COUNTY EFFINGHAM

SCALE 1"=50' SHEET 24 OF 27

DRAWN BY: K.M.S.  
 CHECKED BY: T.T.P.  
 INSPECTED BY: J.T.P.

JOB NO. R-97-010-01 CONTRACT NO 94356



# T 7 N R 7 E 3rd PM BISHOP TWP

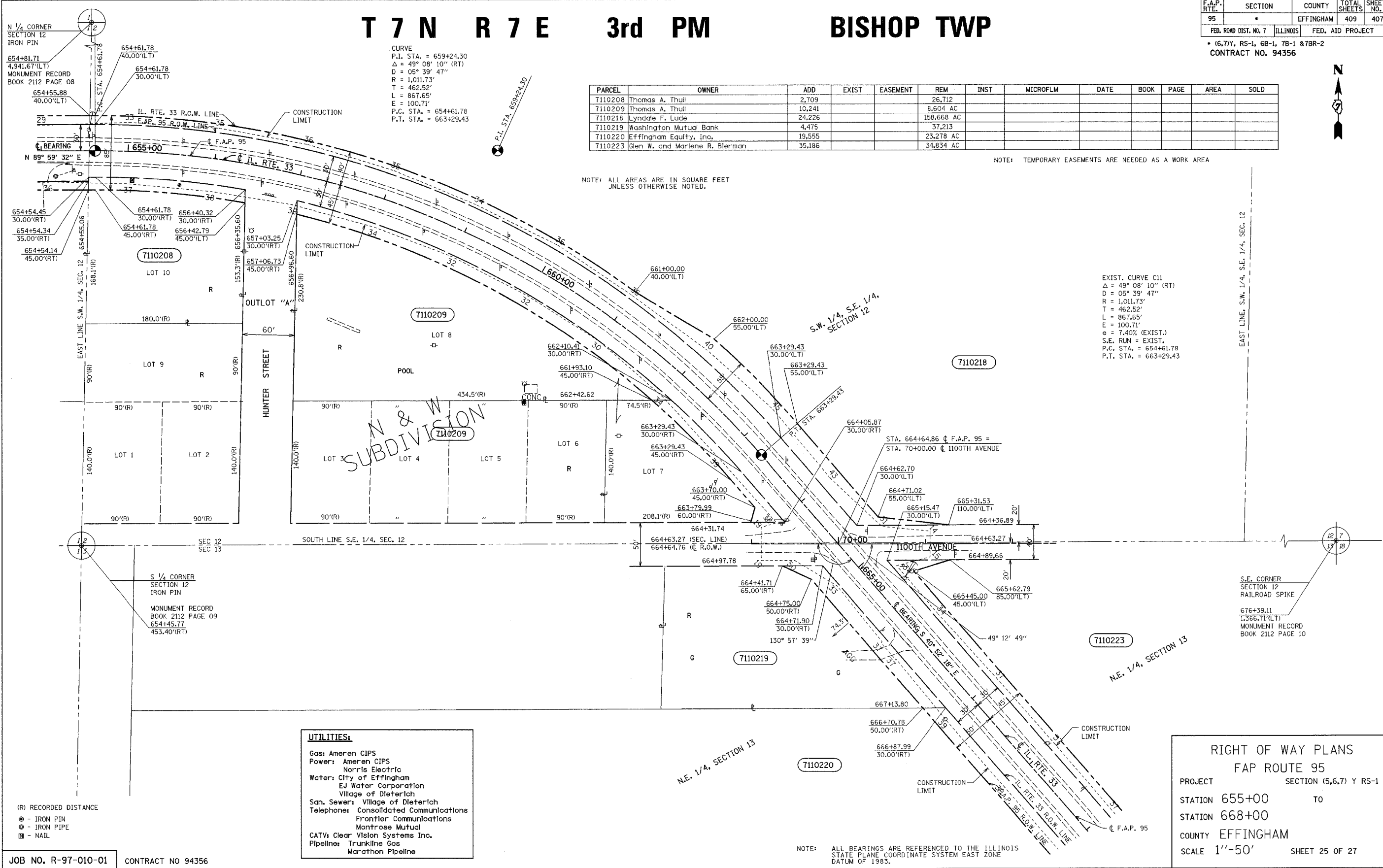
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95		EFFINGHAM	409	407
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
• (6.7Y, RS-1, 6B-1, 7B-1 & 7BR-2)				
CONTRACT NO. 94356				

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110208	Thomas A. Thull	2,709			26,712							
7110209	Thomas A. Thull	10,241			8,604 AC							
7110218	Lyndale F. Lude	24,226			158,668 AC							
7110219	Washington Mutual Bank	4,475			37,213							
7110220	Effingham Equity, Inc.	19,555			23,278 AC							
7110223	Glen W. and Marlene R. Bierman	35,186			34,834 AC							

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

EXIST. CURVE C11  
 $\Delta = 49^\circ 08' 10''$  (RT)  
 $D = 05^\circ 39' 47''$   
 $R = 1,011.73'$   
 $T = 462.52'$   
 $L = 867.65'$   
 $E = 100.71'$   
 $e = 7.40\%$  (EXIST.)  
 S.E. RUN = EXIST.  
 P.C. STA. = 654+61.78  
 P.T. STA. = 663+29.43



• DGN-SPEC •  
• DATE •

K.M.S.  
DRAWN BY  
WRITTEN BY  
CHECKED BY  
INSPECTED BY

UTILITIES:	
Gas:	Ameren CIPS
Power:	Ameren CIPS Norris Electric
Water:	City of Effingham EJ Water Corporation Village of Dieterich
San. Sewer:	Village of Dieterich
Telephone:	Consolidated Communications Frontier Communications Montrose Mutual
CATV:	Clear Vision Systems Inc.
Pipeline:	Trunkline Gas Marathon Pipeline

(R) RECORDED DISTANCE  
 ● - IRON PIN  
 ○ - IRON PIPE  
 ▣ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356

**RIGHT OF WAY PLANS**  
**FAP ROUTE 95**  
 PROJECT SECTION (5,6,7) Y RS-1  
 STATION 655+00 TO 668+00  
 COUNTY EFFINGHAM  
 SCALE 1"=50' SHEET 25 OF 27

# T 7 N R 7 E 3rd PM BISHOP TWP

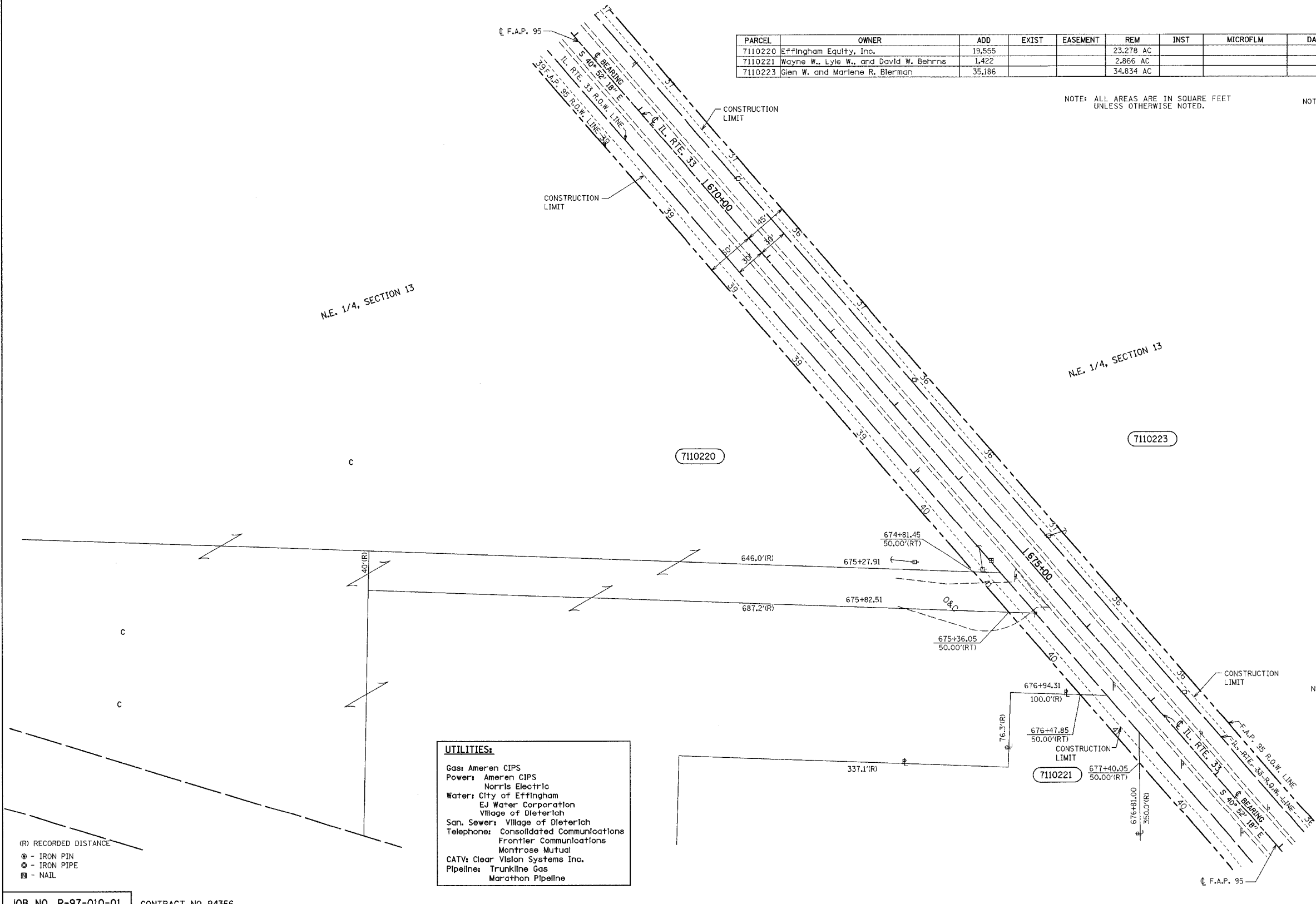
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	408
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
• (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2				
CONTRACT NO. 94356				

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110220	Effingham Equity, Inc.	19,555			23,278 AC							
7110221	Wayne W., Lyle W., and David W. Behrens	1,422			2,866 AC							
7110223	Glen W. and Marlene R. Blerman	35,186			34,834 AC							

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED. NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA



•DGN-SPEC•  
•DATE•



**UTILITIES:**

- Gas: Ameren CIPS
- Power: Ameren CIPS, Norris Electric
- Water: City of Effingham, EJ Water Corporation, Village of Dieterich
- San. Sewer: Village of Dieterich
- Telephone: Consolidated Communications, Frontier Communications, Montrose Mutual
- CATV: Clear Vision Systems Inc.
- Pipeline: Trunkline Gas, Marathon Pipeline

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

**RIGHT OF WAY PLANS**  
**FAP ROUTE 95**  
 PROJECT SECTION (5,6,7) Y RS-1  
 STATION 669+00 TO  
 STATION 680+00  
 COUNTY EFFINGHAM  
 SCALE 1"=50' SHEET 26 OF 27

DRAWN BY \_\_\_\_\_  
 WRITTEN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 INSPECTED BY \_\_\_\_\_

(R) RECORDED DISTANCE  
 ○ - IRON PIN  
 ⊙ - IRON PIPE  
 ▣ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356

# T 7 N R 7 E 3rd PM BISHOP TWP

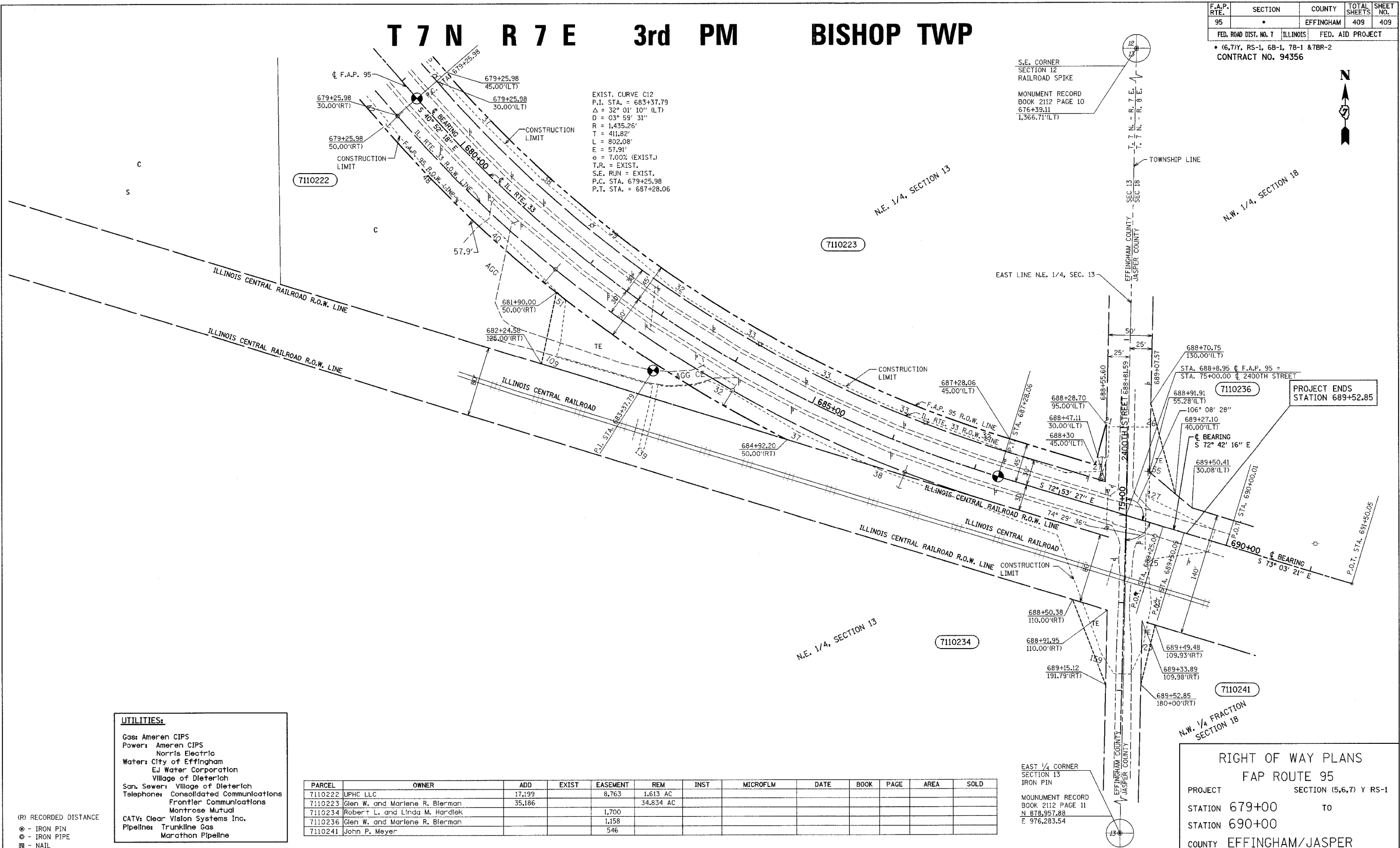
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	*	EFFINGHAM	409	409
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* (6,7)Y, RS-1, 6B-1, 7B-1 & 7BR-2 CONTRACT NO. 94356				

S.E. CORNER SECTION 12 RAILROAD SPIKE  
MONUMENT RECORD BOOK 2112 PAGE 10  
676+39.11  
1,366.71'(LT)



EXIST. CURVE C12  
P.I. STA. = 683+37.79  
Δ = 32° 01' 10" (LT)  
D = 03° 59' 31"  
R = 1,435.26'  
T = 411.82'  
L = 802.08'  
E = 57.91'  
e = 7.00% (EXIST.)  
T.R. = EXIST.  
S.E. RUN = EXIST.  
P.C. STA. 679+25.98  
P.T. STA. = 687+28.06

•DGN-SPEC•  
•DATE•



**UTILITIES:**  
Gas: Ameren CIPS  
Power: Ameren CIPS  
Norris Electric  
Water: City of Effingham  
EJ Water Corporation  
Village of Dieterich  
San. Sewer: Village of Dieterich  
Telephone: Consolidated Communications  
Frontier Communications  
Montrose Mutual  
CATV: Clear Vision Systems Inc.  
Pipeline: Trunkline Gas  
Marathon Pipeline

PARCEL	OWNER	ADD	EXIST	EASEMENT	REM	INST	MICROFLM	DATE	BOOK	PAGE	AREA	SOLD
7110222	UPHC LLC	17,199		8,763	1,613 AC							
7110223	Glen W. and Marlene R. Bierman	35,186			34,834 AC							
7110234	Robert L. and Linda M. Hardtek			1,700								
7110236	Glen W. and Marlene R. Bierman			1,158								
7110241	John P. Meyer			546								

NOTE: ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

NOTE: TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

**RIGHT OF WAY PLANS**  
FAP ROUTE 95  
PROJECT SECTION (5,6,7) Y RS-1  
STATION 679+00 TO  
STATION 690+00  
COUNTY EFFINGHAM/JASPER  
SCALE 1"=50' SHEET 27 OF 27

DRAWN BY \_\_\_\_\_  
WRITTEN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_  
INSPECTED BY \_\_\_\_\_

(R) RECORDED DISTANCE  
● - IRON PIN  
○ - IRON PIPE  
■ - NAIL

JOB NO. R-97-010-01 CONTRACT NO 94356