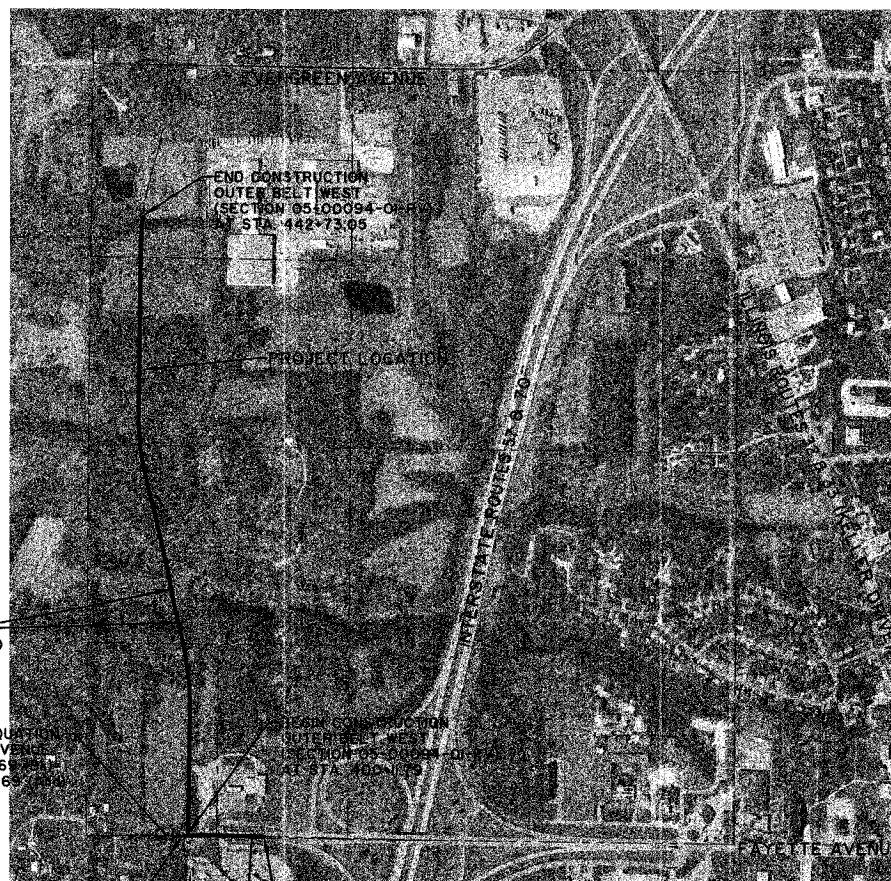


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OUTER BELT WEST
FAU 8384

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	1
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT- HPP-409(014)	

FOR INDEX OF SHEETS
SEE SHEET 2

HIGH PRIORITY SAFE TEA-LU
SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
PROJECT NO. HPP-4091(014)
CITY OF EFFINGHAM
EFFINGHAM COUNTY, ILLINOIS
C-97-044-07



SCALES

PLAN	0 50 100
PROFILE (HORIZONTAL)	0 50 100
PROFILE (VERTICAL)	0 5 10
CROSS SECTIONS (HORIZONTAL)	0 10 20
CROSS SECTIONS (VERTICAL)	0 5 10

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST CONTACT J.U.L.I.E. 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

Contract No. **95503**

FUNCTIONAL CLASSIFICATION - COLLECTOR
ADT - 5143 vpd
DESIGN SPEED - 45 MPH

LOCATION MAP
CITY OF EFFINGHAM

LENGTH OF PROJECT
OUTER BELT WEST = 4053.26 Feet (0.77 Mile)
BRIDGE CONSTRUCTION = 208.00 Feet (0.04 Mile)
FAYETTE AVENUE = 585.33 Feet (0.11 Mile)
TOTAL = 4844.59 Feet (0.92 Mile)

APPROVED 3-29 20.07
Steve Womiller
CITY ENGINEER

PASSED 4-10 20.07
Maurice Kastl
DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review 4/10 20.07
Christina M. Keesh
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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HANSON

OUTER BELT WEST
SECTION 05-00094-01-PV
SECTION 03-00098-00-BR

MILANO & GRUNLOH ENGINEERS, LLC
14 WEST WASHINGTON
P.O. BOX 897
EFFINGHAM, ILLINOIS 62401
Phone: (271) 347-7652
(800) 677-2714
Fax #: (271) 342-3433
Web Address: www.mgengineers.com
Design Firm #: 04-00308

PLANS DATED:
March 30, 2007

Charles A. Grunloh
REGISTERED PROFESSIONAL ENGINEER
03-20-07
My License Expires 11-30-07


File name: S:\DWG\05\05014\dwg\Title 9h1.dwg
Plot date: 03/30/07 at 12:00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	2
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- HPP-400(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

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2	INDEX OF SHEETS
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9-12	SCHEDULE OF QUANTITIES SHEET
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53	63" PPC BULB T-BEAM DETAILS
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57	STEEL H-PILES
58	BAR SPLICER ASSEMBLY DETAILS
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65-88	CROSS SECTION SHEETS (OUTER BELT WEST)
89-93	CROSS SECTION SHEETS (STORM SEWER CROSSINGS)
94-95	CROSS SECTION SHEETS (CULVERT CROSSINGS)


	MILANO & GRUNLOH ENGINEERS, LLC 14 WEST WASHINGTON P.O. BOX 897 EFFINGHAM, ILLINOIS 62401 PHONE: (217) 347-7262 (900) 677-2714 FAX #: (217) 342-3433	INDEX OF SHEETS OUTER BELT WEST CITY OF EFFINGHAM, ILLINOIS
	<small>File name: S:\DWG\05\05014.dwg\Title Sht.dwg Plot date: 03/30/07 at 12:00</small>	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	3
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- HPP-409(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

STANDARDS

000001-04	Standard Symbols, Abbreviations, and Patterns
280001-03	Temporary Erosion Control Systems
420001-06	Pavement Joints
420401-05	Bridge Approach Pavement
420601-04	7.2m (24') PCC Pavement
420701-01	Pavement Fabric
424001-04	Curb Ramps for Sidewalks
515001-02	Name Plate for Bridges
542301-01	Precast Reinforced Concrete Flared End Section
542606	Reinforced Concrete Pipe Tee
602301-01	Inlet, Type A
602306-01	Inlet, Type B
602401-01	Manhole, Type A
602601-01	Precast Reinforced Concrete Flat Slab Top
602701-01	Manhole Steps
604001-02	Frame and Lid, Type I
604006-02	Frame and Grate, Type 3
604011-02	Frame and Grate, Type 3V
604036-01	Grate, Type 8
604041-01	Frame and Grate, Type 9
604066-01	Frame and Lid, Type 15
606001-03	Concrete Curb and Combination Concrete Curb and Gutter
606306-02	Corrugated PC Concrete Medians
701301-02	Lane Closure 2L, 2W Short Time Operations
701306-01	Lane Closure 2L, 2W Slow Moving Operations - Day Only for Speeds \geq 45 MPH
701311-02	Lane Closure 2L, 2W Moving Operations - Day Only
701326-02	Lane Closure 2L, 2W Pavement Widening for Speeds > 45 MPH
701501-03	Urban Lane Closure, 2L 2W Undivided
702001-06	Traffic Control Devices
720001	Sign Panel Mounting Details
720006-01	Sign Panel Erection Details
780001-01	Typical Pavement Markings

	MILANO & GRUNLOH ENGINEERS, LLC	STANDARDS SHEET OUTER BELT WEST CITY OF EFFINGHAM, ILLINOIS
	14 WEST WASHINGTON P.O. BOX 897 EFFINGHAM, ILLINOIS 62401 PHONE: (217) 347-7282 (800) 677-2784 FAX #: (217) 342-3433	
<small>File name: S:\DWG\05\05014.dwg>Title Sht.dwg Plot date: 05/30/07 at 12:00</small>		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6304	#	EFFINGHAM	95	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- MPP-409(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

1. The following rates of application have been assumed in calculating plan quantities:

Crushed Stone	2.05 Tons/CY
Bituminous Concrete	115 lbs/Inch/SY
Bituminous Materials (Prime Coat) on Aggregate Bases	0.50 Gal/SY
Nitrogen Fertilizer Nutrient	90 lbs/Acre
Phosphorus Fertilizer Nutrient	90 lbs/Acre
Potassium Fertilizer Nutrient	90 lbs/Acre
Agricultural Ground Limestone	2 Tons/Acre
Mulch, Method 2	2 Tons/Acre
Temporary Erosion Control Seeding	100 lbs/Acre

2. Before ordering storm sewers, pipe culverts or pipe drains, the Contractor shall consult the Engineer for exact lengths.

3. The Engineer shall be the sole judge concerning curing time for the various bituminous lifts.

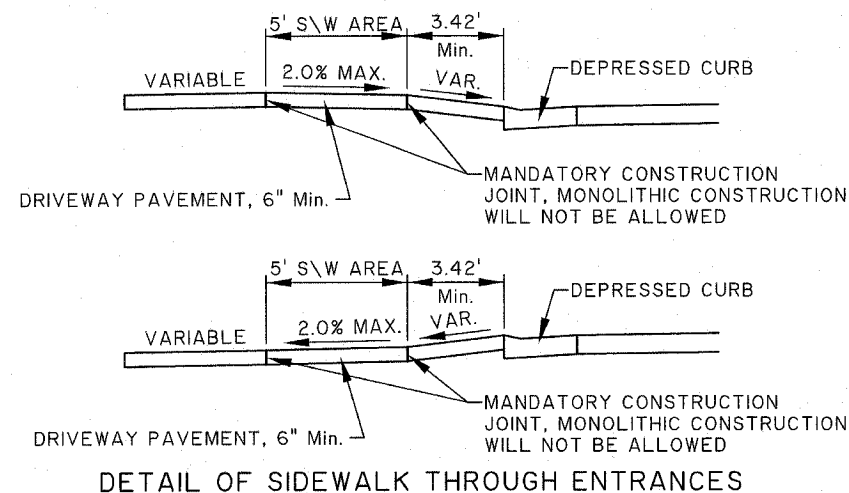
4. For the pay item Bituminous Materials (Prime Coat), the Contractor shall use either RC-70 or an emulsified polymer prime SS-IHP.

5. CURB AND GUTTER, WALKS AND SLABS

A. Concrete curb and gutter shall be in accordance with IDOT Std. Spec. Locate contraction joints at 20 ft on center, unless otherwise shown. Locate expansion joints at minimum 100 ft. on center, unless otherwise shown.

B. Concrete walks, islands, and other slabs shall be in accordance with IDOT Std. Spec. Unless otherwise shown, locate sidewalk contraction joints at 5 ft on center and expansions joints at 50 ft on center, unless otherwise shown, locate contraction joints in larger slabs at 15 ft intervals in each direction, reinforced with lubricated smooth dowel bars (3/4 in. diameter, 18 in. length, at 12 in. centers).

C. Concrete walks crossing through entrances shall be constructed in accordance with the detail shown below. Monolithically constructed sidewalks will not be allowed.



6. PAVEMENT MARKING

A. Epoxy Pavement Marking on hot mix asphalt paving, concrete curbs, walks, and ramps as shown. Epoxy shall be factory mixed, quick-drying, non-bleeding traffic marking epoxy complying with AASHTO M248, Type S. Color shall be as indicated in the plans, except where another color is required by Code.

B. Clean surface in areas to receive markings. Epoxy markings and symbols with traffic marking paint. Apply paint with mechanical equipment to produce uniform straight edges. Apply two coats at manufacturer's recommended rates.

C. Epoxy Pavement Marking - Line 4 Inches shall be constructed in accordance with the Standards, as shown on the Plans and as determined by the Engineer. The total quantity calculated consists of 2193 feet of White and 3017 of Yellow.

D. Epoxy Pavement Marking - Line 6 Inches shall be constructed in accordance with the Standards, as shown on the Plans and as determined by the Engineer. The total quantity calculated consists of 600 feet of White.

E. Epoxy Pavement Marking - Line 12 Inches shall be constructed in accordance with the Standards, as shown on the Plans and as determined by the Engineer. The total quantity calculated consists of 22 feet of Yellow.

F. Epoxy Pavement Marking - Line 24 Inches shall be constructed in accordance with the Standards, as shown on the Plans and as determined by the Engineer. The total quantity calculated consists of 119 feet of White.

7. DISPOSAL

A. Remove from Owner's property and legally dispose of excess excavated material, trash, debris, and waste materials.

16. Only those trees designated by the Engineer shall be removed. The Contractor shall protect all remaining trees from damage due to his operations.

17. Removal of concrete pipe culverts and concrete encased clay pipe culverts will be paid for as pipe culvert removal. All other pipe culvert removal and headwall removal shall be considered included in the cost of Earth Excavation.

LEGEND

○	IRON PIN FOUND
○ 1/4	1/4" IRON PIN FOUND
○ IP	IRON PIPE FOUND
○ N&W	NAIL & WASHER FOUND
○ N	NAIL FOUND
○ PK	PK NAIL FOUND
○ RR	RAILROAD SPIKE FOUND
○ T	"T" FENCE POST FOUND
○ X	CHISELED "X" IN CONCRETE FOUND
○ DH	DRILLED HOLE IN CONCRETE FOUND
⊙	SURVEY DISC FOUND
⊘	STONE FOUND
⊗	TREE (DECIDUOUS)
⊛	TREE (EVERGREEN)
⊙	FIRE HYDRANT
⊞	WATER METER
— v —	WATER MAIN (EXISTING)
— w —	WATER SERVICE LINE (EXISTING)
⊗	VALVE (GAS OR WATER)
⊞	GAS METER
— g —	GAS MAIN (EXISTING)
— o —	GAS SERVICE LINE (EXISTING)
⊞ C	CABLE TV PEDESTAL
— CT —	UNDERGROUND CABLE TV (EXISTING)
⊞ T	TELEPHONE PEDESTAL
⊞	TELEPHONE MANHOLE
— T —	TELEPHONE CABLE (EXISTING)
— t —	TELEPHONE SERVICE WIRE (EXISTING)
— o —	POWER POLE
⊞	POWER POLE w/LIGHT
←	GUY ANCHOR
⊞	LIGHTPOLE (EXISTING)
⊞ E	ELECTRIC PEDESTAL
— OHE —	OVERHEAD ELECTRIC (EXISTING)
— E —	UNDERGROUND ELECTRIC (EXISTING)
L/S	LANDSCAPING
⊙	FENCE POST
— x — x — x —	FENCE

MILANO & GRUNLOH ENGINEERS, LLC
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GENERAL NOTES
 OUTER BELT WEST
 CITY OF EFFINGHAM, ILLINOIS

File name: S:\DWG\05\05014\dwg\Title Sht.dwg
 Plot date: 03/30/07 at 12:00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	5
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- WY-409(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

ITEM NO.	PAY CODE NUMBER	ITEM	UNIT	TOTAL QTY	SECTION		NON-PARTICIPATING QUANTITY
					05-00094-01-PV	03-00098-00-BR	
1	20100500	TREE REMOVAL, ACRES	ACRE	6.8	6.8		
2	20200100	EARTH EXCAVATION	CU YD	67877	67320	207	350
3	20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	195		195	
4	20800150	TRENCH BACKFILL	CU YD	302	302		
5	25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	6.9	6.7		0.2
6	28000300	TEMPORARY DITCH CHECKS	EACH	8	8		
7	28000400	PERIMETER EROSION BARRIER	FOOT	1107	1107		
8	28000500	INLET AND PIPE PROTECTION	EACH	6	6		
9	28000510	INLET FILTERS	EACH	63	63		
10	28100107	STONE RIRAP, CLASS A4	SQ YD	782		782	
11	28200200	FILTER FABRIC	SQ YD	782		782	
12	30200750	PROCESSING MODIFIED SOIL 14"	SQ YD	15115	15115		
13	30201500	LIME	TON	445	445		
14	35100100	AGGREGATE BASE COURSE, TYPE A	TON	1254	889		365
15	35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	450			450
16	40200700	AGGREGATE SURFACE COURSE, TYPE A 8"	SQ YD	38	38		
17	40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	666	206		460
18	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	187	50		137
19	42000300	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	12910	12450		460
20	42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	547	547		
21	42001165	BRIDGE APPROACH PAVEMENT	SQ YD	240	240		
22	42001200	PAVEMENT FABRIC	SQ YD	13826	13366		460
23	42001300	PROTECTIVE COAT	SQ YD	19289	18755		534
24	42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	578	578		
25	42300400	PORTLAND CEMENT DRIVEWAY PAVEMENT 8 INCH	SQ YD	369	369		
26	42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	19342	19342		
27	42400800	DETECTABLE WARNINGS	SQ FT	28	28		
28	44000100	PAVEMENT REMOVAL	SQ YD	396	396		
29	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1918	1534		384
30	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	501	471		30
31	44000920	BITUMINOUS CONCRETE SHOULDER REMOVAL	SQ YD	150	150		
32	50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2		
33	50200100	STRUCTURE EXCAVATION	CU YD	369		369	
34	50300100	FLOOR DRAINS	EACH	4		4	
35	50300225	CONCRETE STRUCTURES	CU YD	89.9		89.9	
36	50300255	CONCRETE SUPERSTRUCTURE	CU YD	336.5		336.5	
37	50300260	BRIDGE DECK GROOVING	SQ YD	647		647	
38	50300280	CONCRETE ENCASEMENT	CU YD	12.6		12.6	
39	50300300	PROTECTIVE COAT	SQ YD	971		971	
40	50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	1030		1030	
41	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	74030		74030	
42	50800515	BAR SPlicERS	EACH	62		62	
43	50900105	ALUMINUM RAILING, TYPE L	FOOT	206		206	
44	51201700	FURNISHING STEEL PILES HP12X74	FOOT	590		590	
45	51201710	FURNISHING STEEL PILES HP12X84	FOOT	544		544	
46	51202305	DRIVING PILES	FOOT	1134		1134	
47	51203700	TEST PILE STEEL HP12X74	EACH	2		2	
48	51203710	TEST PILE STEEL HP12X84	EACH	1		1	
49	51500100	NAME PLATES	EACH	1		1	
50	54200637	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 12"	FOOT	40	40		
51	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1		
52	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2		
53	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2	2		
54	54216185	REINFORCED CONCRETE PIPE TEE, 15" PIPE WITH 12" RISER	EACH	13	13		
56	54216560	REINFORCED CONCRETE PIPE TEE, 18" PIPE WITH 15" RISER	EACH	2	2		
57	55100700	STORM SEWER REMOVAL 15"	FOOT	132	132		
58	55100900	STORM SEWER REMOVAL 18"	FOOT	24	24		
59	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	104		104	
60	60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	166		166	
61	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	23	23		
62	60219500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 15 FRAME AND LID	EACH	1	1		
63	60219550	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 37 GRATE	EACH	1	1		
64	60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1		
65	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2		
66	60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1	1		

M **MLANO & GRUNLOH ENGINEERS, LLC**
engineering
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 14 WEST WASHINGTON
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 FAX #: (217) 342-3433

SUMMARY OF QUANTITIES
OUTER BELT WEST
CITY OF EFFINGHAM, ILLINOIS


File name: S:\DWG\05\05014\dwg\Quantities.dwg
Plot date: 03/30/07 at 12:00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	6
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - HPP-4098(4)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

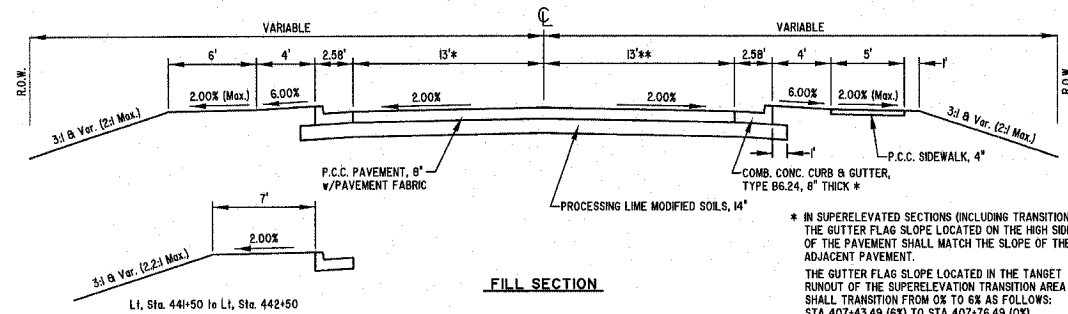
ITEM NO.	PAY CODE NUMBER	ITEM	UNIT	TOTAL QTY	SECTION	SECTION	NON-PARTICIPATING QUANTITY
					05-00094-01-PV	03-00098-00-BR	
					PARTICIPATING QUANTITY	PARTICIPATING QUANTITY	
67	60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	26	26		
68	60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1		
69	60236600	INLETS, TYPE A, TYPE 9 FRAME AND GRATE	EACH	3	3		
70	60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	3	3		
71	60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	2		
72	60500040	REMOVING MANHOLES	EACH	1	1		
73	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	8743	8433		310
74	60611700	COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)	FOOT	31			31
75	60624600	CORRUGATED MEDIAN	SQ FT	117	117		
76	63200310	GUARDRAIL REMOVAL	FOOT	60			60
77	67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	24	24		
78	67100100	MOBILIZATION	L SUM	1	1		
79	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
80	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
81	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
82	72000100	SIGN PANEL - TYPE 1	SQ FT	25.0	25.0		
83	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	64	64		
84	* 78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	171	171		
85	* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	5214	3464		1750
86	* 78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	600	600		
87	* 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	22	22		
88	* 78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	119	119		
89	78300105	PAVEMENT MARKING REMOVAL	FOOT	1771	626		1145
90	550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	1055	1055		
91	550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	2868	2868		
92	550A2540	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18"	FOOT	395	395		
93	550A2730	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 3 15"	FOOT	33	33		
94	550B0450	STORM SEWERS, CLASS B, TYPE 2 36"	FOOT	11	11		
95	550B1560	STORM SEWERS, CLASS B, TYPE 6 18"	FOOT	243	243		
96	550B1620	STORM SEWERS, CLASS B, TYPE 6 36"	FOOT	173	173		
97	X0323080	DRAINAGE SCUPPERS, DS-12	EACH	2		2	
98	X0301834	STORM SEWER TO BE FILLED	FOOT	61	61		
99	X0322809	LATERAL MOVEMENT OF MOVEABLE CONCRETE BARRIER	L SUM	1			1
100	X0322939	RELOCATE EXISTING FLARED END SECTION	EACH	1	1		
		SEDIMENT CONTROL, DRAINAGE STRUCTURE					
101	X0323426	INLET FILTER CLEANING	EACH	63	63		
102	X0323895	GUARDRAIL POST REMOVAL	EACH	85			85
103	X6020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH	24	24		
104	X6020075	INLETS, TYPE B, TYPE 3V FRAME AND GRATE	EACH	2	2		
105	X6028300	INLETS REMOVED, SPECIAL	EACH	4	4		
106	X7240505	RELOCATE SIGN PANEL AND POST	EACH	7	7		
107	XX002208	6" DIAMETER PIPE BOLLARD, CONCRETE FILLED	EACH	12			12
		STORM SEWERS POLYVINYL CHLORIDE, STANDARD DIMENSION					
108	XX003571	RATIO 26, 18"	FOOT	82	82		
109	Z0018900	DRILL AND GROUT DOWEL BARS	EACH	336	322		14
110	XX002208	INLETS ABANDONED, SPECIAL	EACH	1	1		

* SPECIALTY ITEMS

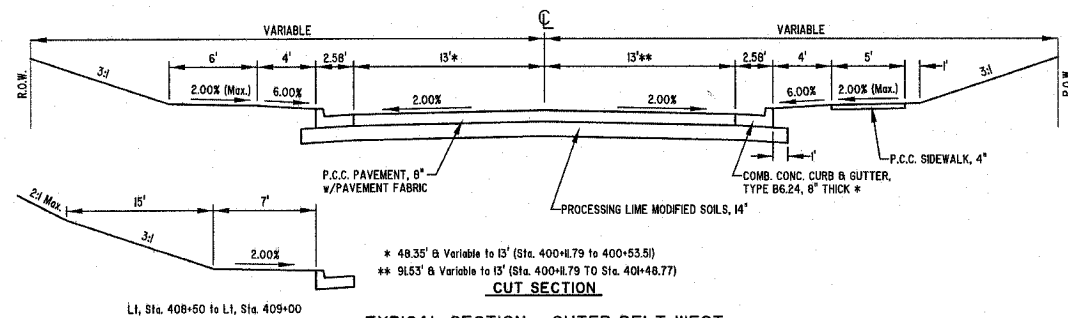
	MILANO & GRUNLOH ENGINEERS, LLC 84 WEST WASHINGTON P.O. BOX 897 EFFINGHAM, ILLINOIS 62401 PHONE: (217) 347-7282 (800) 677-2764 FAX #: (217) 342-3433	SUMMARY OF QUANTITIES OUTER BELT WEST CITY OF EFFINGHAM, ILLINOIS
	File name: S:\DWG\05\05014\dwg\Quantities.dwg Plot date: 03/30/07 at 12:00	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8304	#	EFFINGHAM	95	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - 1PP-408E04		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

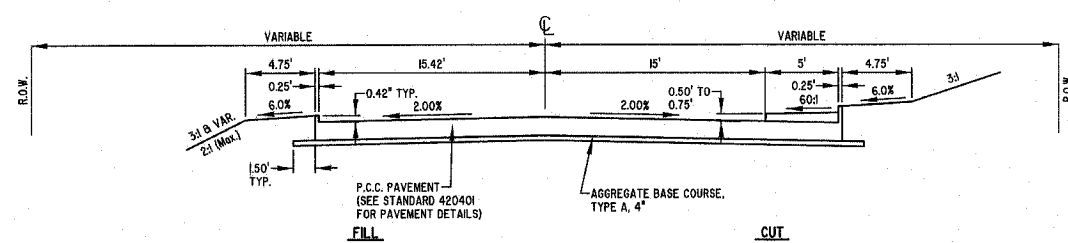


* IN SUPERELEVATED SECTIONS (INCLUDING TRANSITIONS), THE GUTTER FLAG SLOPE LOCATED ON THE HIGH SIDE OF THE PAVEMENT SHALL MATCH THE SLOPE OF THE ADJACENT PAVEMENT.
THE GUTTER FLAG SLOPE LOCATED IN THE TANGENT RUNOUT OF THE SUPERELEVATION TRANSITION AREA SHALL TRANSITION FROM 0% TO 6% AS FOLLOWS:
STA 407+43.49 (0%) TO STA 407+76.49 (6%)
STA 413+89.00 (0%) TO STA 414+22.00 (6%)
STA 422+86.89 (6%) TO STA 423+99.89 (0%)
STA 429+57.04 (0%) TO STA 429+90.04 (6%)

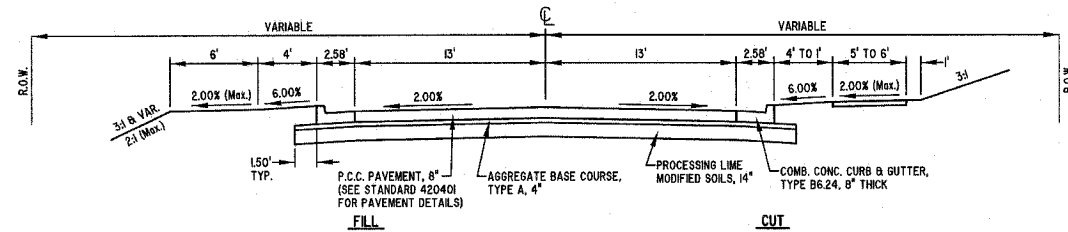


* 48.35' @ Variable to 13' (Sta. 400+1.79 to 400+53.51)
** 96.53' @ Variable to 13' (Sta. 400+1.79 to Sta. 401+48.77)

TYPICAL SECTION - OUTER BELT WEST
(URBAN SECTION)
STA. 400+1.79 TO STA. 413+32.00
STA. 418+00.00 TO STA. 442+73.05



TYPICAL SECTION - OUTER BELT WEST
(BRIDGE APPROACH PAVEMENT, SPECIAL)
STA. 414+32.00 TO STA. 414+82.00
STA. 416+70.00 TO STA. 417+00.00



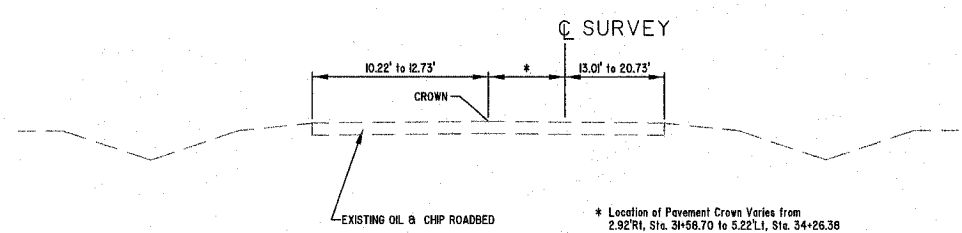
TYPICAL SECTION - OUTER BELT WEST
(BRIDGE APPROACH PAVEMENT CONNECTOR, SPECIAL)
STA. 413+32.00 TO STA. 414+32.00
STA. 417+00.00 TO STA. 418+00.00

PAVEMENT DESIGN - OUTER BELT WEST
CLASS II STREET: LOCAL ROAD (80,000 lb Trucks)
URBAN
STRUCTURAL DESIGN: PV=22H
TRAFFIC (20H): SU=103
MU=257
ILLINOIS BEARING RATIO: 3.0
TRAFFIC FACTOR: 1.60

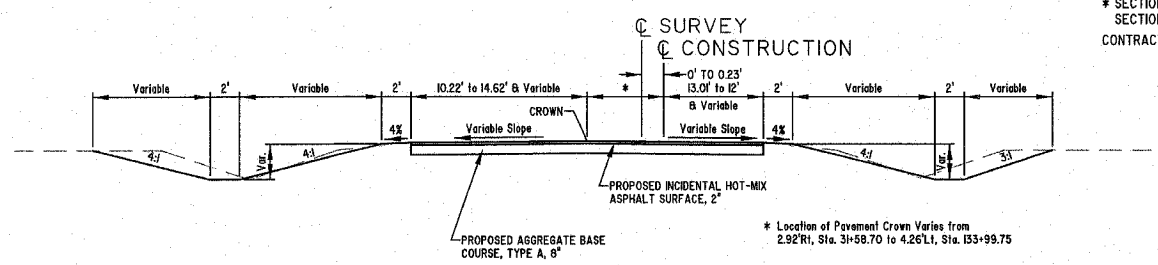
	MILANO & GRUNLOH ENGINEERS, LLC 14 WEST WASHINGTON P.O. BOX 697 EFFINGHAM, ILLINOIS 62401 PHONE: (217) 347-7282 (800) 677-2714 FAX #: (217) 342-3433	TYPICAL SECTIONS OUTER BELT WEST CITY OF EFFINGHAM, ILLINOIS
	File name: S:\DWG\05\05014.dwg\Typical.dwg Plot date: 03/30/07 at 12:00 F3: 555,584,603	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6384	#	EFFINGHAM	95	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - HPF-409(04)		

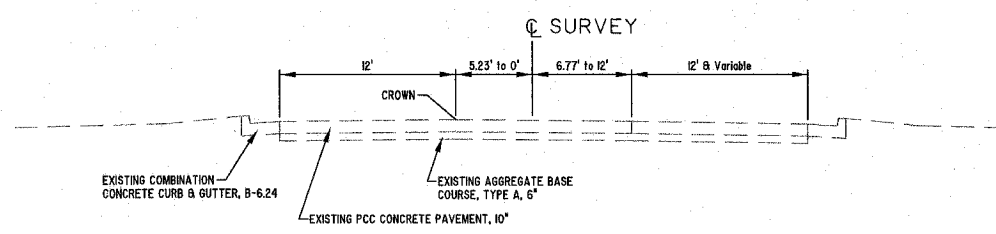
* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



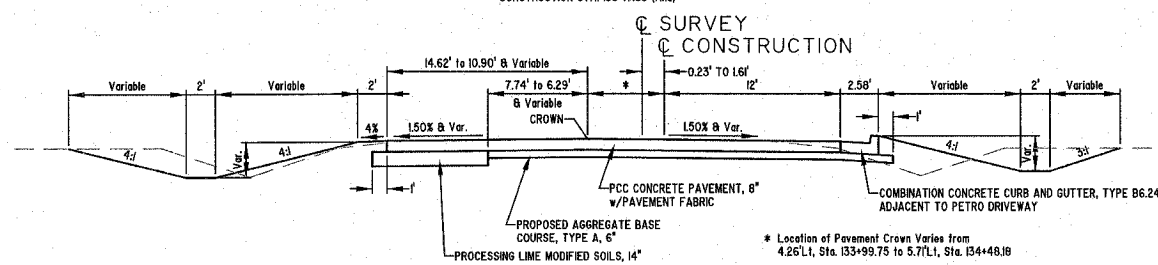
TYPICAL SECTION - FAYETTE AVENUE
(EXISTING)
STA. 34+58.70 TO STA. 34+26.38



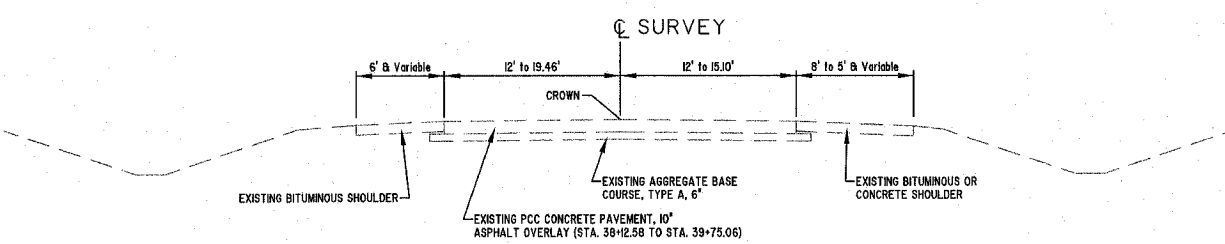
TYPICAL SECTION - FAYETTE AVENUE
(PROPOSED)
STA. 34+58.70 TO STA. 133+99.75
STATION EQUATION: SURVEY STA. 33+7.53 (B)+
CONSTRUCTION STA. 133+7.69 (A)+



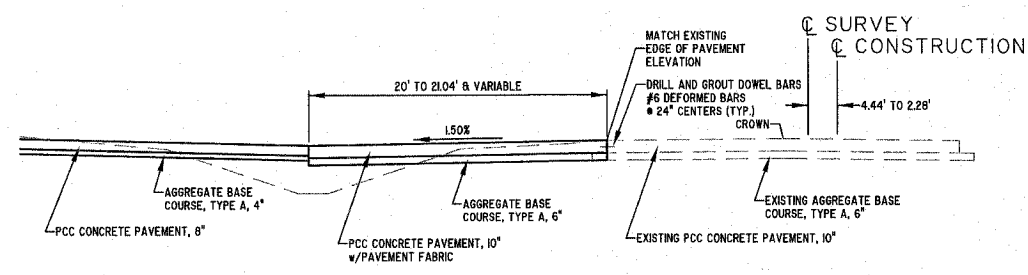
TYPICAL SECTION - FAYETTE AVENUE
(EXISTING)
STA. 34+26.38 TO STA. 37+58.60



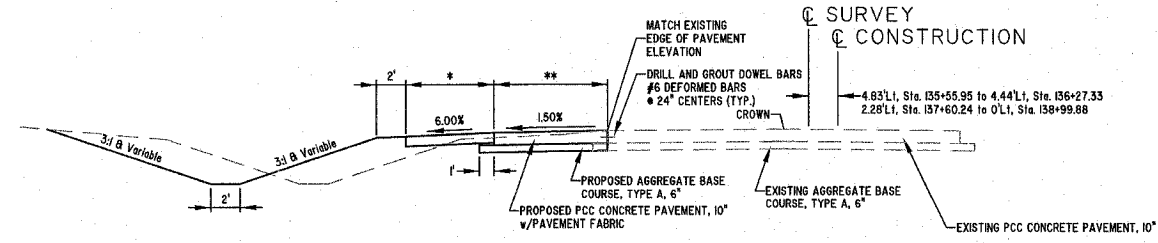
TYPICAL SECTION - FAYETTE AVENUE
(PROPOSED)
STA. 133+99.75 TO STA. 134+48.18



TYPICAL SECTION - FAYETTE AVENUE
(EXISTING)
STA. 37+58.60 TO STA. 39+75.06



TYPICAL SECTION - FAYETTE AVENUE
(PROPOSED)
STA. 136+27.33 TO STA. 137+60.24



* 8' Shoulder (Sta. 135+24.69 to Sta. 136+36.62)
8' Shoulder (Sta. 137+50.96 to Sta. 137+85.75)
8' to 6' Variable Shoulder (Sta. 137+85.75 to Sta. 39+85.20)

** 19.47' to 20' Variable (Sta. 135+55.95 to Sta. 136+27.33)
21.04' to 1' Variable (Sta. 137+60.24 to Sta. 139+75.06)

TYPICAL SECTION - FAYETTE AVENUE
(PROPOSED)
STA. 135+55.95 TO STA. 136+27.33
STA. 137+60.24 TO STA. 39+75.06
STATION EQUATION: CONSTRUCTION STA. 138+99.88 (B)+
SURVEY STA. 39+00.00 (A)+

MILANO & GRUNLOH ENGINEERS, LLC
14 WEST WASHINGTON
P.O. BOX 887
EFFINGHAM, ILLINOIS 62401
PHONE: (217) 347-7262
(800) 677-2714
FAX #: (217) 342-3433

File name: S:\DWG\05\05014\dwg\Typical.dwg
Plot date: 03/30/07 at 12:00 P. 555,584,603

TYPICAL SECTIONS
FAYETTE AVENUE
CITY OF EFFINGHAM, ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	9
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT- IFF-4080041	

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

LOCATION	PAVEMENT SCHEDULE													
	PCC PAVEMENT, 8"	PCC PAVEMENT, 10"	PCC DRIVEWAY PAVEMENT, 8"	PAVEMENT FABRIC	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) SPECIAL	BRIDGE APPROACH PAVEMENT (SPECIAL)	CORRUGATED MEDIAN	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT BASE COURSE, 8"	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE BASE COURSE TYPE A	PROCESSING MODIFIED SOIL, 14"	LIME	DOWEL BARS
	SY	SY	SY	SY	SY	SY	SF	GAL	SY	TON	TON	SY	TON	EACH
400+11.79 to 442+73.05	11342				578	207					235	15115	445	
Rt. 404+41.86			369	369							84			
33+51 to 34+26								161		37	147			
34+26 to 34+46														
Lt. 35+56 to Lt. 39+47		547		547							132			
5+31.7 to 6+46.2	1008			1008			117				235			
Rt. 5+95.1	100			100				45		13	56			
TruckOMat Site	460			460				460	450	137	365			14
Lt. 134+48.18 to Lt. 39+75.06														264
74.7' Rt. 134+47.5 to 12' Rt. 134+48.2														29
18.1' Rt. 136+41.6 to 40.8' Rt. 136+78.5														29
Total	12910	547	369	13826	578	207	117	666	450	187	1254	15115	445	336

EPOXY PAVEMENT MARKING SCHEDULE						
LOCATION	4" YELLOW FOOT	4" WHITE FOOT	6" WHITE FOOT	12" YELLOW FOOT	24" WHITE FOOT	SYMBOLS SQ FT
FAYETTE AVENUE						
31+58.7 TO 134+16	844	443				
63.0' Rt. 134+94.0 to 12.8' Rt. 39+19.4						
0.46' Rt. 135+35.8 to 39+91	1204					
12' Lt. 135+35.8 to 39+77.7			300			
24' Lt. 135+35.8 to 39+85.5			300			
33+00 to 39+65				22		
41 Rt. 134+67 to 135+12					45	
23.6' Rt. 136+99.0 to 24.0' Rt. 137+25.2					27	
135+53.8						42.7
136+31.1						42.7
137+08.4						42.7
137+85.8						42.7
OUTER BELT WEST						
400+38.5 TO 442+73.0	939					
0' Lt to 15.5' Lt, 400+39.5					16	
TRUCKOMAT ENTRANCE						
5+61.2 to 5.78.2	34					
0' Lt to 30.5' Lt, 5 +62.2					31	
TRUCKOMAT SITE						
Truck-Trailer Spaces		1430				
Vehicle Spaces		320				
TOTAL	3021	2193	600	22	119	170.8

PCC SIDEWALK, 4"	
LOCATION	SF
Rt. Sta. 400+40 to Rt. Sta. 403+82	1750
Rt. Sta. 404+90 to Rt. Sta. 413+85.34	4477
Rt. Sta. 413+85.34 to Rt. Sta. 414+35.53	260
Rt. Sta. 417+03.53 to Rt. Sta. 417+50.00	240
Rt. Sta. 417+50.00 to Rt. Sta. 442+73.05	12615
TOTAL	19342

DETECTABLE WARNINGS	
LOCATION	SF
Rt. Sta. 403+77 to Rt. Sta. 403+82	14
Rt. Sta. 404+90 to Rt. Sta. 404+95	14
TOTAL	28

BOLLARDS	
LOCATION	EACH
TruckOMat Site	12

LATERAL MOVEMENT OF CONCRETE BARRIERS	
LOCATION	L SUM
TruckOMat Site	1

COMBINATION CONCRETE CURB AND GUTTER		
LOCATION	TYPE B-6.24	TYPE B (SPECIAL)
	LF	LF
Rt. 34+10 to Rt. 34+44	57	
Rt. 36+42 to Rt. 36+77	45	
Lt. 36+35 to Lt. 36+52	81	
Lt. 37+69 to Rt. 37+71	180	
Lt. 400+16 to Lt. 414+29	1428	
Rt. 400+39 to 414+35	1416	
Lt. 416+97 to 442+73	2576	
Rt. 417+03 to Rt. 442+73	2571	
Rt. 403+71 to Rt. 403+93	58	
Rt. 404+84 to Rt. 405+03	21	
TruckOMat Site	310	31
TOTAL	8743	31

SEEDING, CLASS 2 (SPECIAL)	
LOCATION	ACRE
Rt. 33+51 to Rt. 34+43	0.06
Lt. 33+51 to Lt. 34+16	0.08
Lt. 400+11.79 to Lt. 414+62	1.14
Rt. 400+11.79 to Rt. 414+62	1.19
Lt. 416+70 to Lt. 442+73.05	2.13
Rt. 416+70 to Rt. 442+73.05	1.80
Lt. 35+56 to Lt. 39+47	0.32
TruckOMat Site	0.20
TOTAL	6.9

SIGNS				
LOCATION	OFFSET	STEEL SIGN SUPPORT	SIGN PANEL TYPE I	MESSAGE
		FEET	SQ FT	
400+39.96	21.67'LT	16	6.25	STOP
135+22.14	42.65'RT	16	6.25	STOP
136+56.78	65.07'LT	16	6.25	STOP
137+31.30	25.43'RT	16	6.25	STOP
TOTAL		64	25.0	

AGGREGATE SURFACE COURSE, TYPE A, 8"	
LOCATION	SY
Lt. Sta. 33+07.30	14
Rt. Sta. 133+19.27	24
TOTAL	38

PIPE CULVERTS, TYPE 1, CORRUGATED METAL, 12"	
LOCATION	FOOT
Lt. Sta. 33+07.30	20
Rt. Sta. 133+19.27	20
TOTAL	40

REMOVE EXISTING PIPE CULVERTS (INCLUDED IN CONTRACT PRICE FOR PIPE CULVERTS, TYPE 1)	
LOCATION	FOOT
Lt. Sta. 33+07.30	20
Rt. Sta. 133+19.27	20
TOTAL	40

EARTHWORK SCHEDULE				
LOCATION	EARTH EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE - (+) SHRINKAGE - (-)
SECTION 05-0094-01-PV				
33+35 to 39+85	530	645	515	-115
400+12 to 407+50	1720	1090	872	630
407+50 to 414+62	40100	250	200	39850
416+70 to 420+00	500	18800	13400	-16300
420+00 to 442+73	24470	28690	22952	-4220
TruckOMat Site	350			350
Sub-Total	67670	47475	37839	20195
SECTION 03-0098-00-BR				
414+62 to 415+00	191	229	183	-38
416+62 to 416+70	16	825	660	-809
Sub-Total	207	1054	843	-847
Total	67877	48529	38782	19348

Note: 25% Shrink Factor Used

ENTRANCE SCHEDULE	
LOCATION	DESCRIPTION
FAYETTE AVENUE	
LT. STA. 33+07.30	REMOVE EXISTING CMP. INSTALL NEW CMP. AGGREGATE SURFACE QUANTITIES SHOWN ON THIS SHEET
RT. STA. 33+07.30	REMOVE EXISTING CMP. INSTALL NEW CMP. AGGREGATE SURFACE QUANTITIES SHOWN ON THIS SHEET
RT. STA. 134+64.24	INCLUDED WITH FAYETTE AVENUE QUANTITIES
LT. STA. 136+93.40	SEE SHEET 33. QUANTITIES SHOWN ON THIS SHEET
OUTER BELT WEST	
RT. STA. 404+41.96	SEE SHEET 32. QUANTITIES SHOWN ON THIS SHEET

NOTE: SEE SHEET 22 FOR REMOVAL QUANTITIES
SEE SHEET 25 FOR EROSION CONTROL QUANTITIES

MILANO & BRUNLOH ENGINEERS, LLC
14 WEST WASHINGTON
P.O. BOX 697
EFFINGHAM, ILLINOIS 62401
PHONE: (217) 347-7262
(800) 677-2714
FAX #: (217) 342-3433

SCHEDULE OF QUANTITIES
OUTER BELT WEST AND
FAYETTE AVENUE
CITY OF EFFINGHAM, ILLINOIS

File name: S:\DWG\05\05014\Jwg\Quantities.dwg
Plot date: 03/30/07 at 12:00

ROUTE NO. FAU 8384	SECTION #	COUNTY EFFINGHAM	TOTAL SHEETS 95	SHEET NO. 10
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT - HPP-409(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

PROPOSED DRAINAGE STRUCTURE SCHEDULE																							
STRUCTURE TYPE																							
STRUCTURE NUMBER	STATION	OFFSET	INLETS				MANHOLES					TEES			END SECTIONS			ELEVATIONS			REMARKS		
			TYPE A, TYPE 3 FRAME & GRATE	TYPE A, TYPE 3V FRAME & GRATE	TYPE A, TYPE 9 FRAME & GRATE	TYPE A, TYPE 8 GRATE	TYPE B, TYPE 3 FRAME & GRATE	TYPE B, TYPE 3V FRAME & GRATE	TYPE A, 4' DIA., TYPE 1 FRAME, CLOSED LID	TYPE A, 4' DIA., TYPE 15 FRAME & LID	TYPE A, 4' DIA., TYPE 37 GRATE	TYPE A, 5' DIA., TYPE 1 FRAME, CLOSED LID	TYPE A, 5' DIA., TYPE 1 FRAME, OPEN LID	TYPE A, 5' DIA., TYPE 8 GRATE	15"x12"	18"x15"	12" FLARED	15" FLARED	18" FLARED	LID OR GRATE FLOWLINE		(IN) INVERT	(OUT) INVERT
2	134+35.30	24.82'R																		584.40	577.04(E)	577.04(S)	580.50(W); 577.75(N)
16	134+00.53	27.21'R																		582.86			Relocated 18" Flared End Section
17	134+08.49	36.75'L																		582.80			
18	400+55.39	22'L																		584.93	579.66(N)	578.56(S)	582.00(SW)
19	135+09.25	36.78'L																		584.20	578.80(NE)	577.98(S)	
20	135+76.90	64.92'L				1														582.50		579.50(SW)	
21	400+79.81	22'L																			579.96(E)	579.83(S)	
22	400+79.81	14.22'L																		584.09	580.12(E)	580.02(W)	580.12(N)
23	400+79.81	25.37'R																		583.72	580.58(N)	580.48(W)	
24	400+89.81	14.72'L	1																	584.10		580.20(S)	
25	400+89.81	22.72'R	1																	583.83		580.66(S)	
26	401+90	22'L																			580.78(E)	580.65(S)	
27	401+90	14.72'L	1																	584.75	581.47(E)	580.84(W)	
28	401+90	14.72'R	1																	584.75		581.75(W)	
29	403+00	22'L																			581.60(E)	581.47(S)	
30	403+00	14.72'L	1																	585.57	582.29(E)	581.66(W)	
31	403+00	14.72'R	1																	585.57		582.57(W)	
32	404+10	22'L																		587.18	582.38(E)	582.28(S)	
33	404+10	14.72'L	1																	586.39	583.11(E)	582.42(W)	
34	404+10	14.72'R				1														586.39		583.39(W)	
35	407+40	22'L																		586.56	581.63(E)	581.53(N)	
36	407+40	14.72'L																		585.77	582.49(E)	581.70(W)	
37	407+40	14.72'R																		585.77		582.77(W)	
38	407+90	22'L																		585.46	580.61(S)	577.02(N)	580.61(E)
39	407+90	14.72'L																		584.39		580.66(W)	
40	408+95	24.34'L																			575.11(E)	574.98(N)	
41	408+95	14.72'L																		580.97		575.20(W)	
42	410+00	22'L																		577.64	572.90(S)	567.57(N)	573.81(E)
43	410+00	14.72'L																		576.86		573.86(W)	
44	410+75	23.22'L																			566.43(E)	566.13(N)	
45	410+75	14.72'L																		573.17		569.22(W)	
46	411+50	22'L																		570.14	564.68(S)	559.35(N)	566.31(E)
47	411+50	14.72'L																		569.36		566.36(W)	
48	412+25	23.22'L																			558.21(E)	557.91(N)	
49	412+25	14.72'L																		565.61		561.00(W)	
50	413+00	22'L																		562.64	556.46(S)	551.13(N)	558.81(E)
51	413+00	14.72'L																		581.86		558.85(W)	
52	414+12	14.72'L																		556.52		552.83(N)	
53	414+12	14.72'R																		556.64		553.18(N)	
54	414+22	22'L																		556.89	548.79(S)	540.86(W)	552.60(E)
55	414+22	14.22'L																		556.10	552.75(E)	552.65(W)	552.75(S)
56	414+22	14.22'R																		556.10	553.10(S)	553.00(W)	
57	414+50	51.45'L																				540.00	
58	416+70	62.09'L																				530.20	
59	417+10	22'L																		550.38	546.75(E)	546.00(N)	
60	417+10	14.22'L																		550.17	546.89(E)	546.79(W)	546.89(N)
61	417+10	14.22'R																		550.17	547.24(N)	547.14(W)	
62	417+20	14.72'L																		550.18		546.97(S)	
63	417+20	14.72'R																		550.18		547.32(S)	
64	418+08.46	66.85'L																			531.84(E)	531.59(S)	
65	418+10	22'L																		551.10	544.56(S)	543.00(W)	547.47(E)
66	418+10	14.72'L																		550.89	547.61(E)	547.51(W)	
67	418+10	14.72'R																		550.89		547.89(W)	
68	419+00	70'L																		539.50	536.00(N)	532.50(S)	
69	419+30	22'L																		553.84	550.20(N)	546.00(W)	550.17(E)
70	419+30	14.72'L																		553.63	550.32(E)	550.22(W)	
71	419+30	14.72'R																		553.63		550.59(W)	
72	419+39.06	60.90'L																			542.35(E)	542.18(S)	
73	419+50	58.35'L																			544.00		
74	420+50	22'L																		559.22	555.40(N)	552.52(S)	555.01(E)
75	420+50	14.72'L																		558.43	555.15(E)	555.05(W)	
76	420+50	14.72'R																		558.43		555.43(W)	
77	422+50	22'L																		569.21	565.40(N)	559.32(S)	565.00(E)
78	422+50	14.72'L																		568.42	565.04(W)	565.14(E)	
79	422+50	14.72'R																		568.42		565.42(W)	
80	423+50.36	20.98'L																			567.57(E)	567.41(S)	
81	423+50	14.72'R																		573.41		570.41(W)	
82	424+50	22'L																		579.28	573.58(N)	569.32(S)	574.34(E)
83	424+50	14.72'R																		577.68		574.68(W)	
84	425+50	22'L																		582.56	577.62(E)	575.50(S)	
85	425+50	14.72'R																		580.96		577.96(W)	
86	428+50	22'L																		584.79	579.85(E)	579.75(N)	
87	428+50	14.72'R																		583.19		580.19(W)	
88	427+12.50	21.14'L																			579.40(E)	579.26(N)	
89	427+12.50	14.72'R																				581.04(W)	
SUBTOTAL			9	24	3	1	2	2	17	0	0	1	1	0	8	2	1	1	2	584.04			

	MILANO & GRUNLOH ENGINEERS, LLC	SCHEDULE OF QUANTITIES OUTER BELT WEST AND FAYETTE AVENUE CITY OF EFFINGHAM, ILLINOIS
	84 WEST WASHINGTON P.O. BOX 897 EFFINGHAM, ILLINOIS 62404 PHONE: (217) 347-7282 (800) 677-2764 FAX #: (217) 342-3433	
File name: S:\DWG\05\05014\Jvg\Quantities.dwg Plot date: 03/30/07 at 12:00		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - HPP-4080(4)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

PROPOSED DRAINAGE STRUCTURE SCHEDULE																								
STRUCTURE TYPE																								
STRUCTURE NUMBER	STATION	OFFSET	INLETS					MANHOLES					TEES			END SECTIONS			ELEVATIONS			REMARKS		
			TYPE A, TYPE 3 FRAME & GRATE	TYPE A, TYPE 3V FRAME & GRATE	TYPE A, TYPE 9 FRAME & GRATE	TYPE A, TYPE 8 GRATE	TYPE B, TYPE 3 FRAME & GRATE	TYPE B, TYPE 3V FRAME & GRATE	TYPE A, 4' DIA., TYPE 1 FRAME, CLOSED LID	TYPE A, 4' DIA., TYPE 15 FRAME & LID	TYPE A, 4' DIA., TYPE 37 GRATE	TYPE A, 5' DIA., TYPE 1 FRAME, CLOSED LID	TYPE A, 5' DIA., TYPE 1 FRAME, OPEN LID	TYPE A, 5' DIA., TYPE 8 GRATE	15"x12"	18"x15"	12" FLARED	15" FLARED	18" FLARED	LID OR GRATE FLOWLINE	(IN) INVERT		(OUT) INVERT	
90	427+50	92.10'L																		567.35	555.65(E)	555.53(W)	Open End	
91	427+56.90	67.10'L																		578.60	571.55(E)	582.18(SW)	561.65(NE)	
92	427+75	48.35'L																		585.59	578.78(S)	572.00(W)	581.35(N); 580.93(E)	
93	427+75	22'L																		584.56		581.26(W)		
94	427+75	14.72'R	1																		559.00		Open End	
95	428+00	77.48'R																			582.07(E)		581.94(S)	
96	428+50	20.76'L																			585.14		582.34(W)	
97	428+50	14.72'R	1																		587.26		582.52(S)	
98	429+25	22'L																			585.79		582.89(W)	
99	429+25	14.72'R	1																				Open End	
100	429+50	90.03'L																			558.70		582.85(S)	
101	429+57.04	22'L																			583.00(E)		582.85(S)	
102	429+57.04	14.72'L	1																		586.30		583.30(W)	
103	429+80.04	22'L																			583.20(E)		583.07(S)	
104	429+80.04	14.72'L	1																		586.30		583.30(W)	
105	430+50	22'L																			583.62(E)		583.49(S)	
106	430+50	14.72'L	1																		586.77		583.65(W)	
107	430+50	14.72'R	1																		586.77		583.90(W)	
108	431+50	51.05'R																			577.50		565.98(SW)	
109	432+00	22'L																					584.68(E)	
110	432+00	14.72'L	1																		587.94		584.71(W)	
111	432+00	14.72'R	1																		587.94		584.96(W)	
112	433+25	22'L																			589.72		585.43(S)	
113	433+25	14.72'L	1																		588.93		585.57(W)	
114	433+25	14.72'R	1																		588.93		585.95(W)	
115	435+90	22'L																			592.62		588.27(S)	
116	435+50	14.72'L	1																		591.83		588.41(W)	
117	435+50	14.72'R	1																		591.83		588.79(W)	
118	437+75	22'L																			595.74		591.42(S)	
119	437+75	14.72'L	1																		594.95		591.56(W)	
120	437+75	14.72'R	1																		594.95		591.94(W)	
121	441+60	14.72'L	1																		595.50		591.83(N)	
122	441+60	14.72'R	1																		595.50		592.19(N)	
123	441+60	15.29'L																			595.50		591.73(E)	
124	441+60	14.22'R																			595.50		591.41(NW)	
125	441+85.43	41.26'L																			595.50		591.99(W)	
126	138+67.03	44.48'L																					591.00	
128	39+85.57	42.49'L																			583.10		578.79(S)	
129																					580.40		Open End	
SUBTOTAL			17	0	0	0	1	0	6	1	1	1	0	5	0	0	1	0						
SUBTOTAL (Sht.11)			9	24	3	1	2	2	17	0	0	1	1	8	2	1	1	1	2					
TOTAL			26	24	3	1	3	2	23	1	1	2	1	13	2	1	2	2						

EXISTING DRAINAGE STRUCTURE SCHEDULE													
STRUCTURE TYPE													
STRUCTURE NUMBER	STATION	OFFSET	INLETS		MANHOLES		MATERIAL		ELEVATIONS			REMARKS	
			2' DIA., TYPE 3 FRAME & GRATE	3' DIA., TYPE 3 FRAME & GRATE	4' DIA., T1 F, CL	5' DIA., T1 F, CL	REINFORCED CONCRETE	CONCRETE BLOCK	LID OR FLOWLINE OF GRATE	(IN) INVERT	(OUT) INVERT		
1	34+03.29	19.39'RT										End of 18" Flared End Section	
2	34+34.48	25.96'RT			X		X			584.84	579.19(W)	To Be Removed	
										577.04(E)	577.04(S)		
3	34+33.34	102.41'RT				X	X			583.67	576.38(E)		
											576.38(N)	576.38(S)	
4	34+39.97	26.08'RT	X				X			584.33	577.09(E)	24"x24" TEE To be Abandoned	
											577.09(W)		
5	35+10.21	31.25'LT									577.96		Open End of 24" RCCP w/Headwall Remove Concrete Headwall
6	35+09.43	31.44'RT			X		X			584.06	579.97(SE)		
											577.69(N)	577.69(W)	
7	35+22.38	41.56'RT	X				X			583.61		580.56(NW)	
8	35+23.97	37.56'LT									579.20		Open End of 15" RCCP
9	35+40.46	35.63'LT	X				X			583.48	579.60(E)	579.60(W)	
10	35+99.21	35.15'LT	X				X			583.53	579.94(W)	579.94(W)	
11	36+13.73	38.95'LT									580.11		Open End of 15" RCCP
12	36+53.96	49.95'LT										580.54	Open End of 15" RCCP
13	36+71.58	54.69'LT	X				X			583.39		580.88(W)	
14	37+25.25	54.09'LT	X				X			583.50		580.45(E)	
15	37+50.27	50.32'LT										580.02	
126	442+26.87	34.83'LT										591.87	End of 15" Flared End Section
127	138+66.25	31.15'LT										578.69(N)	Remove Concrete Headwall

MILANO & GRUNLOH ENGINEERS, LLC
 84 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 PHONE: (217) 347-7262
 (800) 677-2714
 FAX #: (217) 342-3433
 File name: S:\DWG\05\05014\dwg\Quantities.dwg
 Plot date: 03/30/07 at 12:00

SCHEDULE OF QUANTITIES
 OUTER BELT WEST AND
 FAYETTE AVENUE
 CITY OF EFFINGHAM, ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	†	EFFINGHAM	95	12
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - HPP-409(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

SCHEDULE OF QUANTITIES/DRAINAGE PIPE SCHEDULE													
STORM SEWERS													
FROM STRUCTURE	INVERT ELEVATION	TO STRUCTURE	INVERT ELEVATION	PIPE SLOPE %	TYPE 2, 12"	TYPE 2, 15"	TYPE 3, 15"	TYPE 2, 18"	SEWER, CLASS B TYPE 2, 36"	SEWER, CLASS B TYPE 6, 18"	SEWER, CLASS B TYPE 6, 36"	STORM SEWERS, PVC, SDR 26, 18"	TRENCH BACKFILL CU YD
19	578.80	20	579.50	1.00	70								18
16	582.86	2	580.50	-4.00				27					2
2	577.75	18	578.56	1.00								82	21
17	582.80	18	582.00	-2.00	34								0
18	579.66	21	579.83	0.74		19							0
21	579.96	22	580.02	1.00	5								0
22	580.12	23	580.48	1.00	37								9
22	580.12	24	580.20	1.00	8								0
23	580.58	25	580.66	1.00	8								0
21	579.83	26	580.65	0.74		102							0
26	580.78	27	580.84	1.00	5								0
27	581.47	28	581.75	1.00	28								8
26	580.65	29	581.47	0.74		102							0
29	581.60	30	581.66	1.00	5								8
30	582.29	31	582.57	1.00	28								8
29	581.47	32	582.28	0.74		104							0
32	582.38	33	582.42	1.00	5								0
33	583.11	34	583.39	1.00	28								8
35	581.63	36	581.70	1.00	5								0
36	582.49	37	582.77	1.00	28								8
35	581.53	38	580.61	-2.00		46							0
38	580.61	39	580.66	1.00	5								0
38	577.02	40	574.98	-2.00		98							0
40	575.11	41	575.20	1.00	8								0
40	574.98	42	572.90	-2.00		98							0
42	573.81	43	573.86	1.00	5								0
42	567.57	44	566.13	-2.00		68							0
44	566.43	45	569.22	40.00	7								0
44	566.13	46	564.68	-2.00		68							0
46	566.31	47	566.36	1.00	5								0
46	559.35	48	567.91	-2.00		68							0
48	558.21	49	561.00	40.00	7								0
48	557.91	50	556.46	-2.00		68							0
50	558.81	51	558.85	1.00	5								0
50	551.13	54	548.79	-2.00		117							0
52	552.83	55	552.75	-1.00	8								0
53	553.18	56	553.10	-1.00	8								0
54	552.60	55	552.65	1.00	5								0
55	552.75	56	553.00	1.00	25								8
54	540.86	57	540.00	-2.22			33						0
59	546.75	60	546.79	1.00	5								0
60	546.89	61	547.14	1.00	28								8
60	546.89	62	546.97	1.00	8								0
61	547.24	63	547.32	1.00	8								0
58	530.20	64	531.59	1.00				129					0
59	546.00	65	544.56	-1.50		96							0
64	531.84	65	543.00	26.37		42							0
65	547.47	66	547.51	1.00	5								0
66	547.61	67	547.89	1.00	28								8
64	531.59	68	532.50	1.00				86					0
68	536.00	72	542.18	16.21				34					0
69	546.00	72	542.35	-9.49		38							0
69	550.17	70	550.22	1.00	5								0
70	550.32	71	550.59	1.00	28								8
72	542.18	73	544.00	16.21				2					0
69	550.20	74	552.52	2.00		116							0
74	555.01	75	555.05	1.00	5								0
75	555.15	76	555.43	1.00	28								8
74	556.40	77	559.32	2.00		196							0
77	566.00	78	565.14	1.00	5								0
78	565.04	79	565.42	1.00	28								8
77	565.40	80	567.41	2.00		95							0
80	567.57	81	570.41	8.29	34								8
80	567.41	82	569.32	2.00		95							0
82	574.34	83	574.68	1.00	34								8
82	573.58	84	575.50	2.00		96							0
84	577.62	85	577.96	1.00	34								8
86	579.85	87	580.19	1.00	34								0
86	579.75	88	579.28	-0.80		58							0
88	579.40	89	581.04	4.75	34								0
88	579.26	93	578.78	-0.80		57							0
90	555.00	91	555.53	2.26					24				0
91	561.65	92	562.18	2.37			23						0
92	571.65	93	572.00	2.00			23						0
93	580.93	94	581.26	1.00	35								0
Subtotal 1					768	1893	33	278	0	0	24	82	154

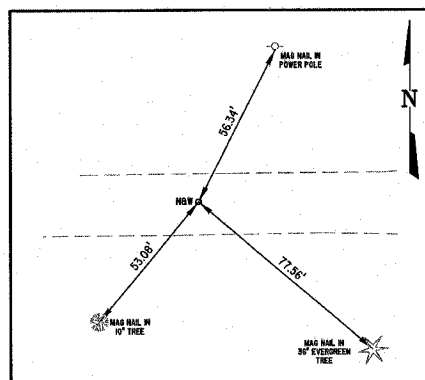
SCHEDULE OF QUANTITIES/DRAINAGE PIPE SCHEDULE													
STORM SEWERS													
FROM STRUCTURE	INVERT ELEVATION	TO STRUCTURE	INVERT ELEVATION	PIPE SLOPE %	TYPE 2, 12"	TYPE 2, 15"	TYPE 3, 15"	TYPE 2, 18"	SEWER, CLASS B TYPE 2, 36"	SEWER, CLASS B TYPE 6, 18"	SEWER, CLASS B TYPE 6, 36"	STORM SEWERS, PVC, SDR 26, 18"	TRENCH BACKFILL CU YD
91	555.65	95	559.00	2.26									30
93	581.35	96	581.94	0.80		70					149		8
98	582.07	97	582.34	0.80	34								8
96	581.94	98	582.52	0.80		70							0
96	582.62	99	582.89	0.80	34								8
100	558.70	108	565.98	3.00						243			30
98	582.62	101	582.85	0.71		26							0
101	583.00	102	583.30	5.43	6								0
101	582.85	103	583.07	0.71		25							0
103	583.20	104	583.30	1.79	6								0
103	583.07	105	583.49	0.71		52							0
105	583.62	106	583.65	1.00	5								0
106	583.75	107	583.90	1.00	28								8
105	583.49	109	584.56	0.71		142							0
109	584.68	110	584.71	0.50	6								0
110	584.81	111	584.96	0.50	28								8
109	584.56	112	585.43	0.71		119							0
112	585.53	113	585.57	1.00	5								0
113	585.67	114	585.95	1.00	28								8
112	585.53	115	588.27	1.24		221							0
115	588.37	116	588.41	1.00	5								0
116	588.51	117	588.79	1.00	28								8
115	588.37	118	591.42	1.38		221							0
118	591.52	119	591.56	1.00	5								0
119	591.66	120	591.94	1.00	28								8
121	591.81	123	591.73	-1.30	7								0
122	592.19	124	592.09	-1.46	8								0
123	591.73	124	591.99	1.00	26								8
123	591.41	125	591.00	-1.18		29							0
127	578.69	128	578.79	0.92					11				16
128	579.82	129	580.40	0.50					117				0
Subtotal 2					287	975	0	117	11	243	149	0	148
Subtotal 1					768	1893	33	278	0	0	24	82	154
Total					1055	2868	33	395	11	243	173	82	302

M MILANO & GRUNLOH ENGINEERS, LLC
14 WEST WASHINGTON
P.O. BOX 897
EFFINGHAM, ILLINOIS 62401
PHONE: (217) 347-7282
(800) 677-2744
FAX #: (217) 342-3433
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Plot date: 03/30/07 at 12:00

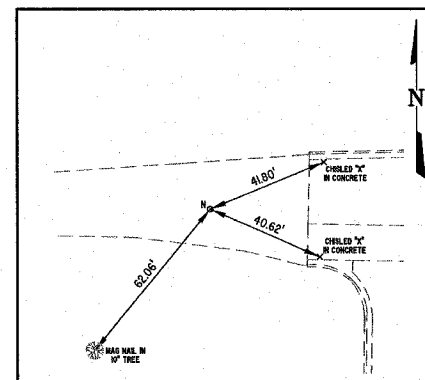
SCHEDULE OF QUANTITIES
OUTER BELT WEST AND
FAYETTE AVENUE
CITY OF EFFINGHAM, ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	13
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - HPP-408004		

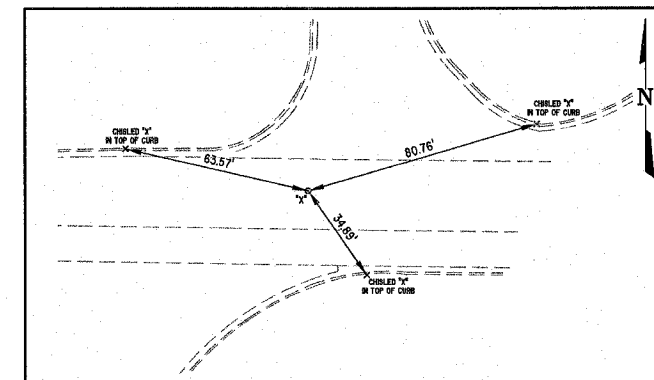
* SECTION 05-00094-01-PY
SECTION 03-00098-00-BR
CONTRACT #95503



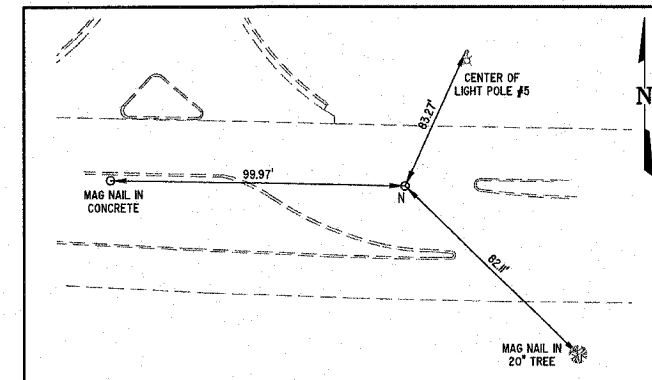
P.O.T. STA. 32+69.69
NAIL and WASHER FOUND
(FAYETTE AVENUE)



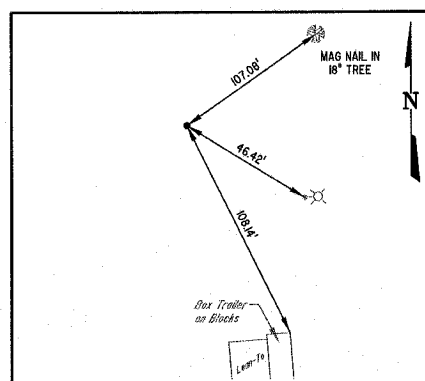
P.I. STA. 33+92.69
NAIL FOUND
(FAYETTE AVENUE)



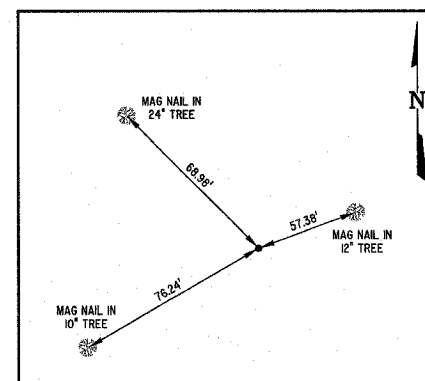
P.I. STA. 35+42.65
CHISELED "X" FOUND
(FAYETTE AVENUE)



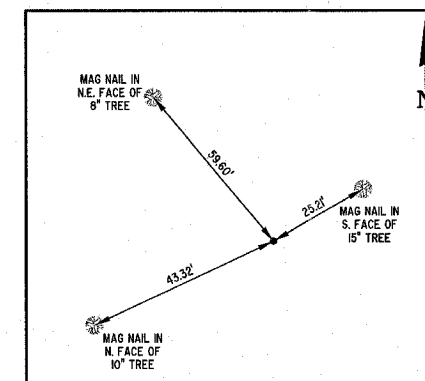
P.O.T. STA. 44+00
MAG NAIL FOUND
(FAYETTE AVENUE)



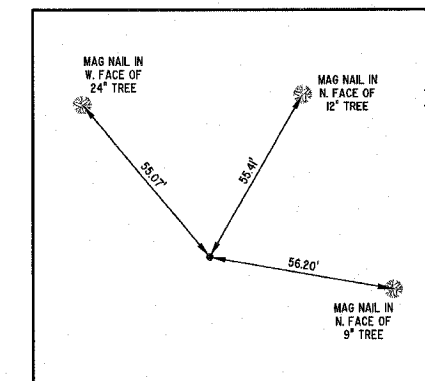
P.O.T. STA. 405+00
1/2" IRON PIN
(OUTER BELT WEST)



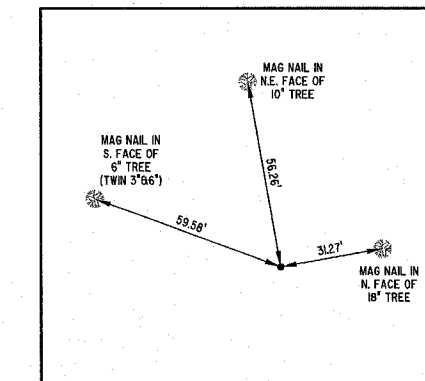
P.I. STA. 41+00.01
1/2" IRON PIN
(OUTER BELT WEST)



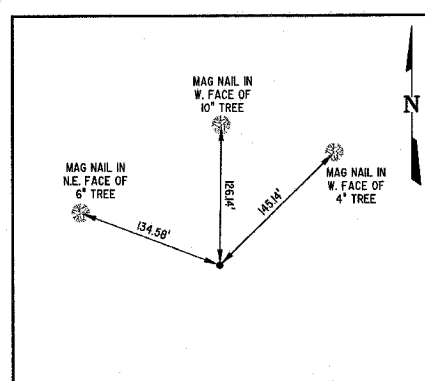
P.O.T. STA. 42+00
1/2" IRON PIN
(OUTER BELT WEST)



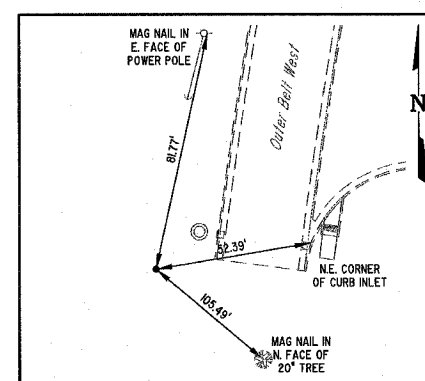
P.O.C. STA. 426+00
1/2" IRON PIN
(OUTER BELT WEST)



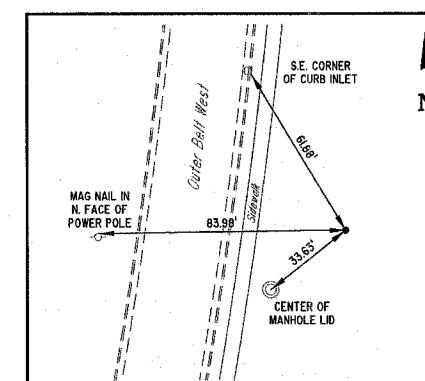
P.O.T. STA. 433+00
1/2" IRON PIN
(OUTER BELT WEST)



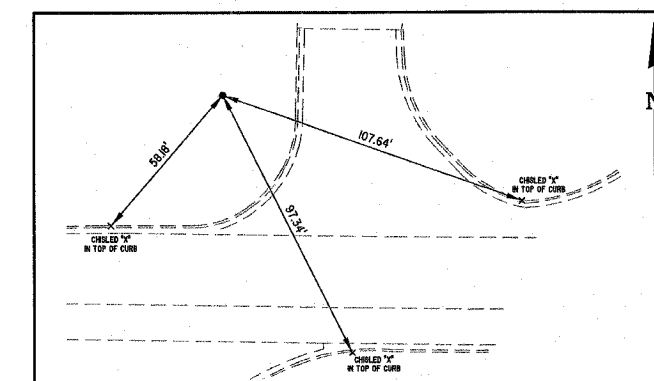
P.C. STA. 440+51.90
1/2" IRON PIN
(OUTER BELT WEST)



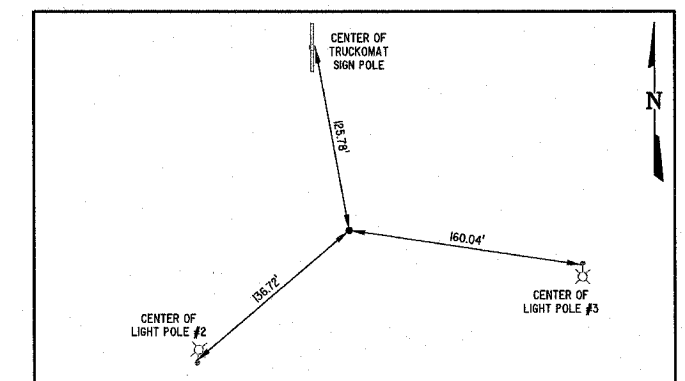
TRAVERSE POINT #4122
1/2" IRON PIN
STA. 442+67.35
33.00 LT



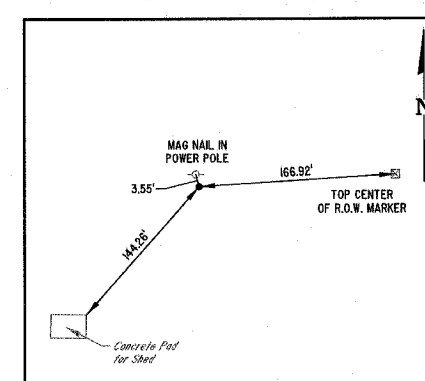
TRAVERSE POINT #4115
1/2" IRON PIN
STA. 449+61.63
54.20 RT



TRAVERSE POINT #427
1/2" IRON PIN
STA. 400+59.25
53.43 RT



TRAVERSE POINT #211
1/2" IRON PIN
STA. 40+74.48
58.27 RT



TRAVERSE POINT #212
1/2" IRON PIN, STA. 405+23.66, 64.07 RT

MILANO & GRUNLOH ENGINEERS, LLC
14 WEST WASHINGTON
P.O. BOX 897
EFFINGHAM, ILLINOIS 62401
PHONE: (617) 347-7282
(800) 677-4714
FAX #: (617) 342-3433

REFERENCE TIES
CENTERLINE - FAYETTE AVENUE,
CENTERLINE - OUTER BELT WEST
AND TRAVERSE POINTS
CITY OF EFFINGHAM, ILLINOIS

File name: S:\DWG\05\05014\dwg\Alignment Ties.dwg
Plot date: 03/30/07 at 12:00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6384	†	EFFINGHAM	95	14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- NPP-40960341		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

**OUTER BELT WEST
PROPOSED CURVE #1**

PI STA=48+00.01
Delta=14°24'42"
D=02°30'00"
T=289.77'
R=229.83'
L=576.47'
C=574.95'
E=18.25'
M=10'
PC STA=408+00.24
PT STA=415+06.71
M.S.E.=2.50X
ATTAIN:
STA 407+43.49 TO STA 408+32.49
STA 415+33.00 TO STA 414+22.00

PROPOSED CURVE #2

PI STA=426+39.94
Delta=14°14'28"
D=02°30'00"
T=286.30'
R=229.83'
L=569.65'
C=568.18'
E=17.88'
M=7.68'
PC STA=423+53.64
PT STA=429+23.29
M.S.E.=2.50X
ATTAIN:
STA 422+06.89 TO STA 423+75.89
STA 429+01.04 TO STA 429+90.04

PROPOSED CURVE #3

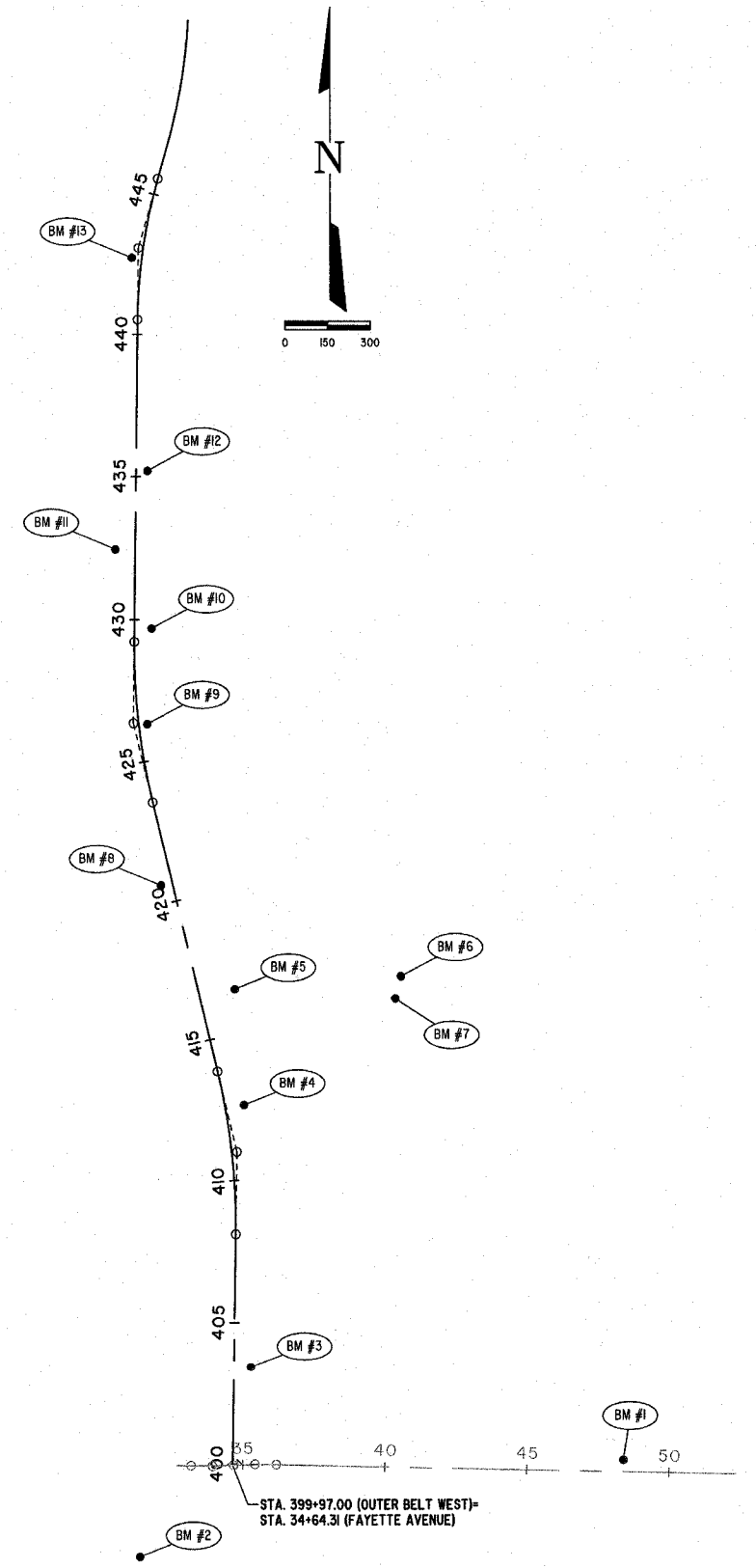
PI STA=443+05.32
Delta=15°07'01"
D=03°00'00"
T=253.42'
R=1909.86'
L=903.90'
C=502.43'
E=16.74'
M=6.55'
PC STA=440+51.90
PT STA=445+55.80

**FAYETTE AVENUE
SURVEY CENTERLINE
EXISTING CURVE #1**

PI STA=35+92.69
Delta=3°21'50"
D=02°14'36"
T=75.00'
R=2554.16'
L=149.36'
C=449.93'
E=11.07'
M=11.07'
PC STA=35+17.69
PT STA=34+67.65

EXISTING CURVE #2

PI STA=35+42.65
Delta=3°32'20"
D=02°27'36"
T=75.00'
R=2427.78'
L=149.33'
C=449.93'
E=11.07'
M=11.07'
PC STA=34+67.65
PT STA=36+17.60



BM #1

TOP OF IRON PIN AT NORTHWEST CORNER OF OVERPASS
40' LT, STA. 48+39.19
ELEVATION=599.09

BM #2

CHISELED SQUARE IN CONCRETE BASE OF THE LIGHT POLE AT PETRO TRUCK ENTRANCE
ELEVATION=584.74

BM #3

TOP NORTHWEST CORNER OF THE NORTHERN MOST I-BEAM ALONG THE WEST SIDE OF TRUCKMATS PAVEMENT AT 59.5' RI, Sta. 403+43.4
ELEVATION=592.18

BM #4

RAILROAD SPIKE IN TREE AT 67' RI, Sta. 412+55
ELEVATION=590.31

BM #5

RAILROAD SPIKE IN TREE AT 127' RI, Sta. 416+52
ELEVATION=536.44

BM #6

CHISELED SQUARE IN NORTHWEST CONCRETE BRIDGE SUPPORT
ELEVATION=539.07

BM #7

RAILROAD SPIKE IN POWER POLE
ELEVATION=543.31

BM #8

RAILROAD SPIKE IN TREE AT 40' LI, Sta. 420+65
ELEVATION=575.26

BM #9

RAILROAD SPIKE IN TREE AT 30' RI, Sta. 426+30
ELEVATION=562.65

BM #10

RAILROAD SPIKE IN TREE AT 60' RI, Sta. 429+70
ELEVATION=592.69

BM #11

RAILROAD SPIKE IN TREE AT 70' LI, Sta. 432+45
ELEVATION=593.44

BM #12

RAILROAD SPIKE IN TREE AT 40' RI, Sta. 435+20
ELEVATION=594.56

BM #13

TOP OF IRON PIN (CONTROL POINT #4122)
35' LT, STA. 442+67.35
ELEVATION=595.50

OUTER BELT WEST

Station	Northing	Easting	Description
399+97.00	893688.875	915972.456	POT
408+10.24	894502.026	915984.683	PC
411+00.01	894791.759	915989.039	PI
413+86.71	895073.459	915921.147	PT
423+53.64	896013.468	915694.596	PC
426+39.94	896291.799	915627.516	PI
429+23.29	896578.078	915630.968	PT
440+51.90	897706.814	915644.576	PC
443+05.32	897960.014	915647.631	PI
448+55.79	898203.849	915716.665	PT

FAYETTE AVENUE

Station	Northing	Easting	Description
32+69.89	893688.170	915777.874	POT
33+17.89	893687.306	915825.869	PC
33+92.69	893685.956	915900.857	PI
34+64.31	893688.875	915972.456	POC
34+67.65	893689.009	915975.795	PRC
35+42.65	893692.061	916050.733	PI
36+17.60	893690.482	916125.716	PT
45+00.00	893671.904	917007.921	POT

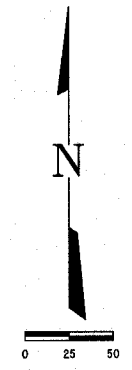
MILANO & GRUNDLOH ENGINEERS, LLC
14 WEST WASHINGTON
EFFINGHAM, ILLINOIS 62401
PHONE: (617) 541-7262
(800) 677-2214
FAX #: (617) 542-3433

ALIGNMENT AND BENCHMARKS
OUTER BELT WEST AND
FAYETTE AVENUE
CITY OF EFFINGHAM, ILLINOIS

File name: S:\DWG\05\05014.dwg; Alignment Title.dwg
Plot date: 03/30/07 at 12:00

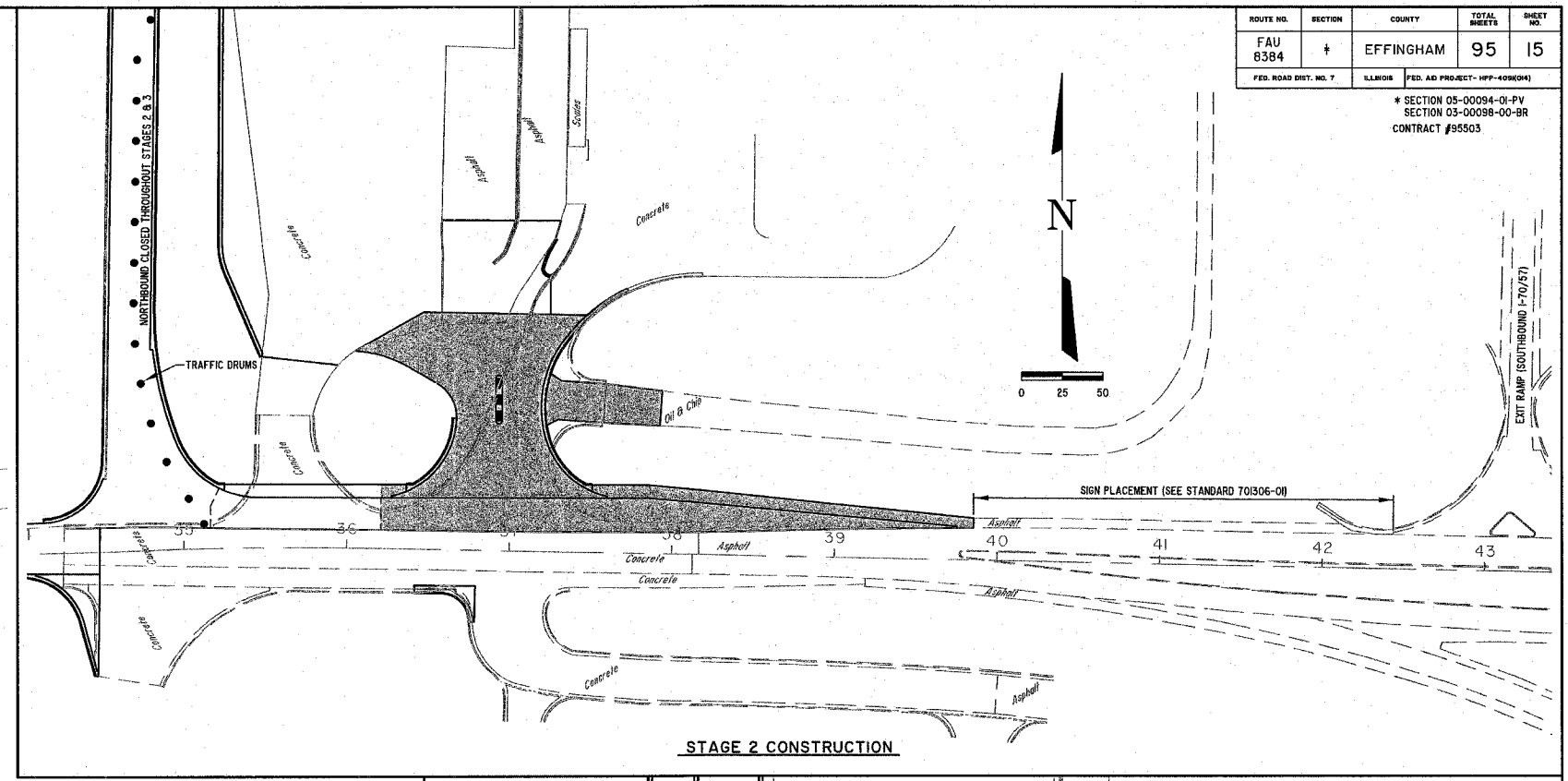
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FAU 8384	#	EFFINGHAM	95	15
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT - HPP-408041	

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

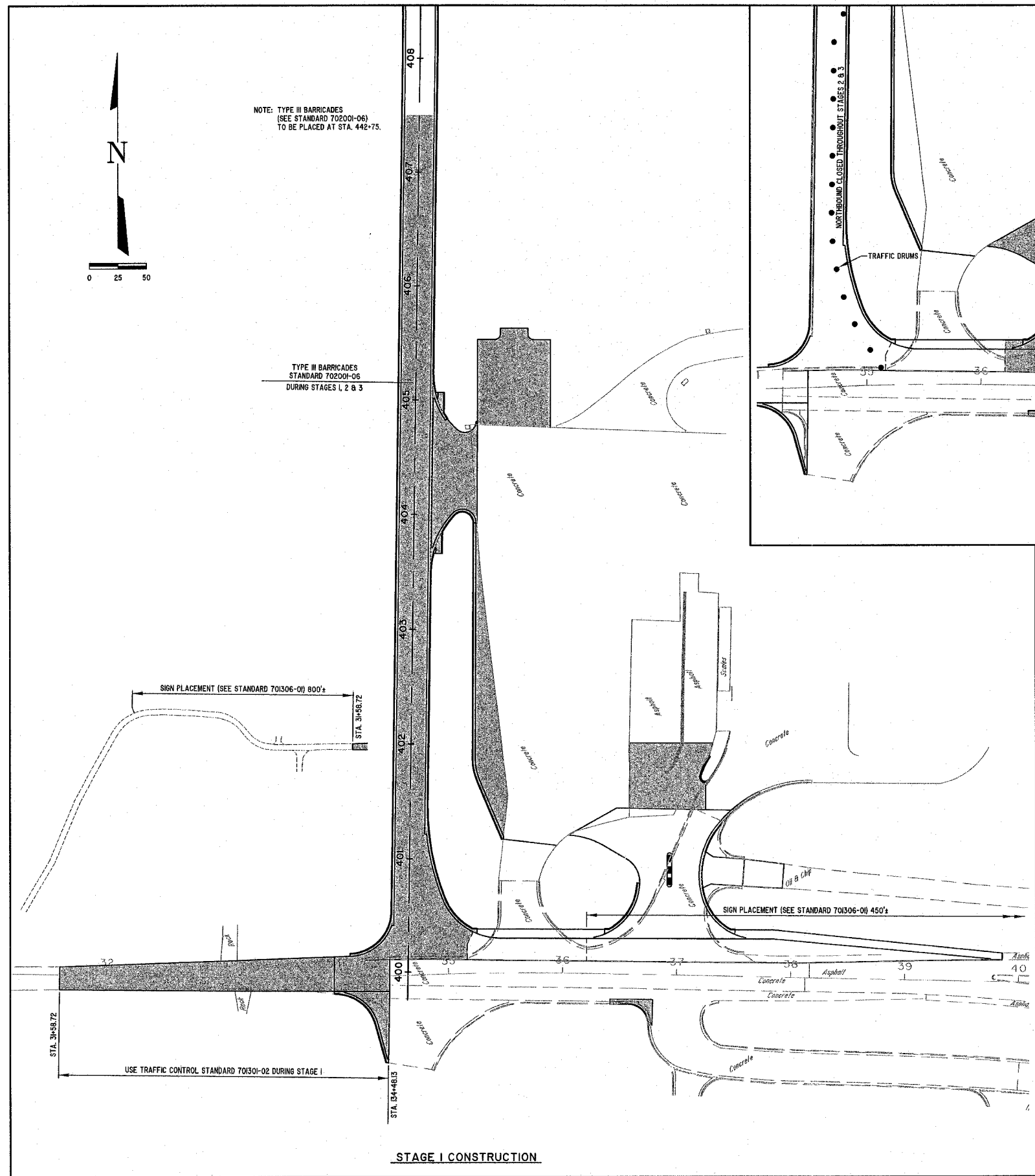
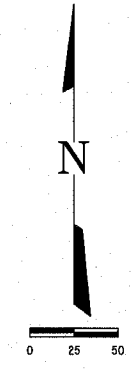


NOTE: TYPE III BARRICADES
(SEE STANDARD 702001-06)
TO BE PLACED AT STA. 442+75.

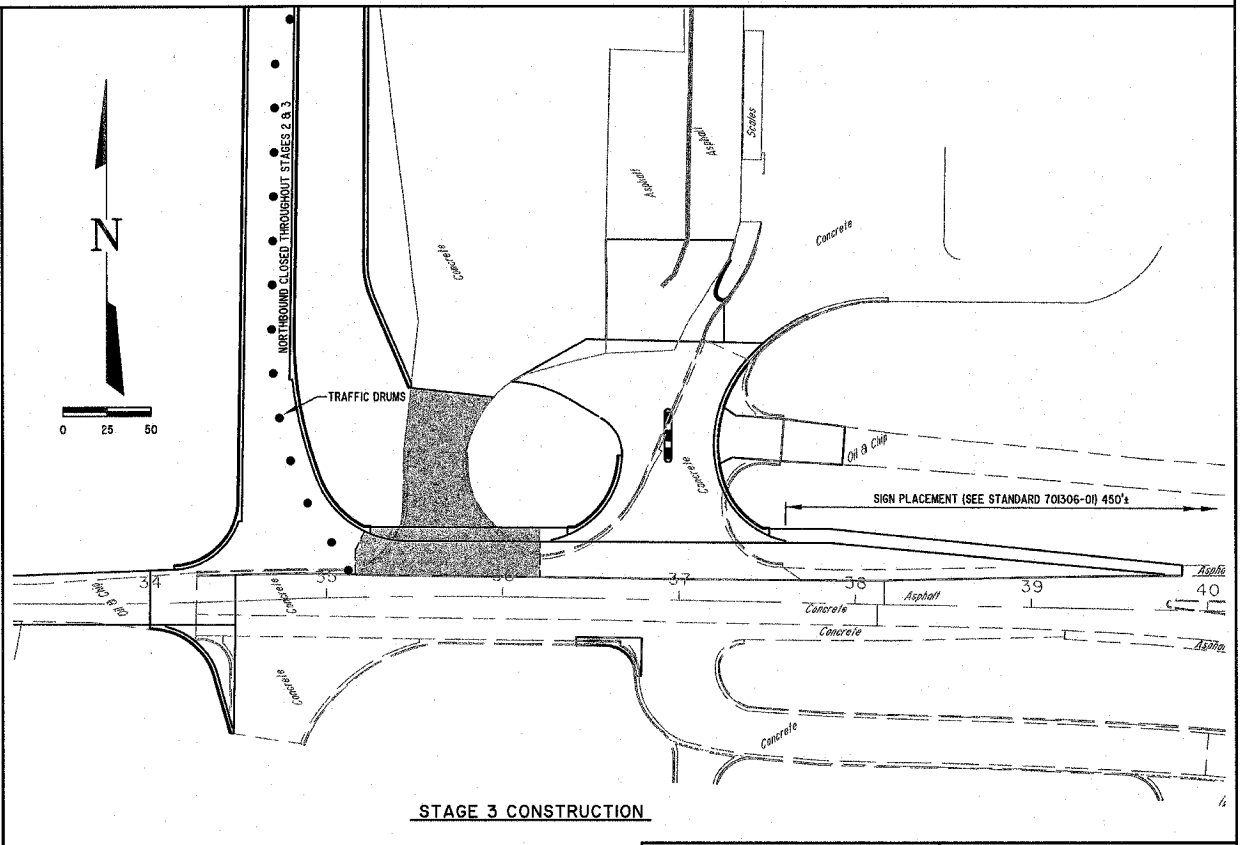
TYPE III BARRICADES
STANDARD 702001-05
DURING STAGES 1, 2 & 3



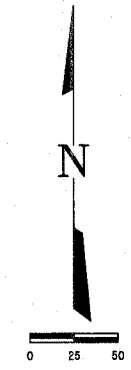
STAGE 2 CONSTRUCTION



STAGE 1 CONSTRUCTION



STAGE 3 CONSTRUCTION



MILANO & GRUNLOH ENGINEERS, LLC
 engineering
G
 14 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
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 (800) 677-2714
 FAX #: (217) 342-3433

STAGE CONSTRUCTION AND
TRAFFIC CONTROL PLAN
OUTER BELT WEST AND
FAYETTE AVENUE
CITY OF EFFINGHAM, ILLINOIS

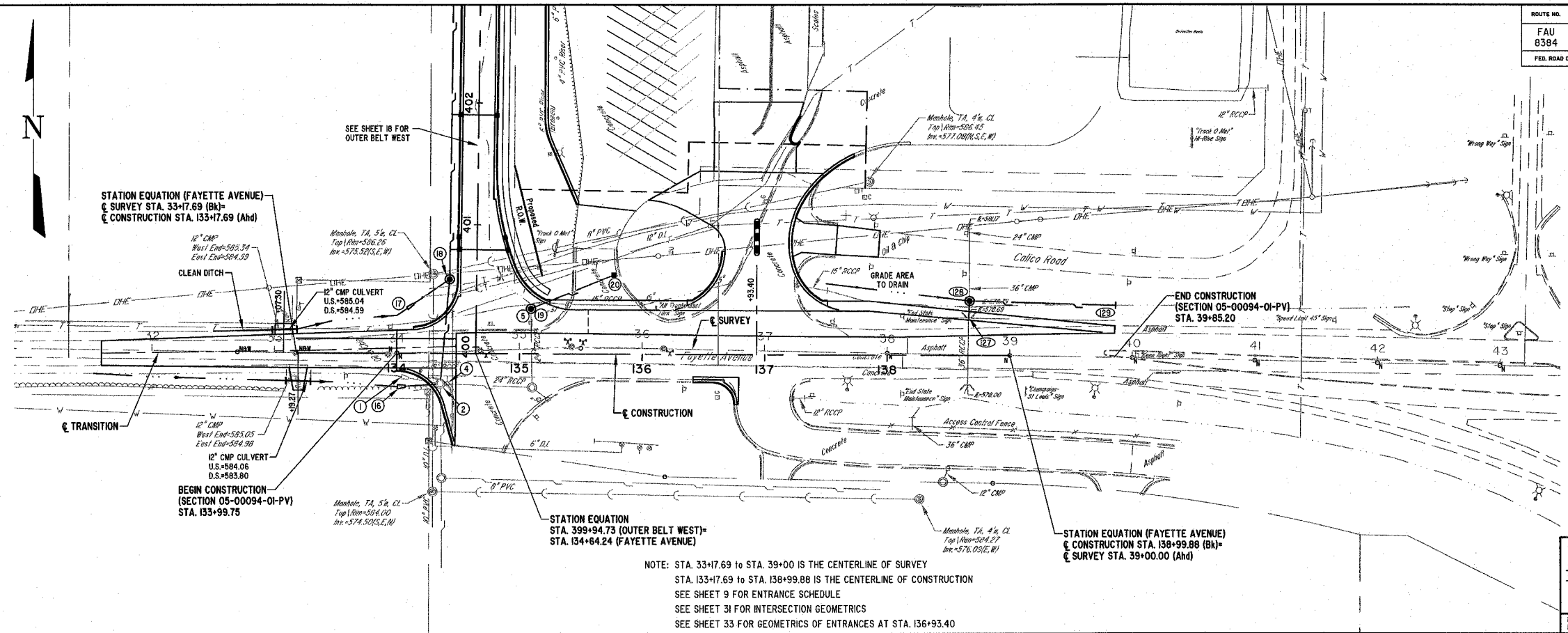
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Plot date: 03/30/07 at 12:00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	16

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT: RFP-409004
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

FAYETTE AVENUE SURVEY CENTERLINE CURVE #1
 PI STA=33+92.69
 Delta=3°27'50"
 De=02'14.36"
 T=75.00'
 R=2554.16'
 L=449.93'
 C=449.93'
 E=100'
 M=10'
 PC STA=33+17.69
 PRC STA=34+67.65

CURVE #2
 PI STA=35+42.65
 Delta=3°32'20"
 De=02'21.36"
 T=75.00'
 R=2427.78'
 L=449.95'
 C=449.93'
 E=100'
 M=10'
 PC STA=34+67.65
 PT STA=36+17.60



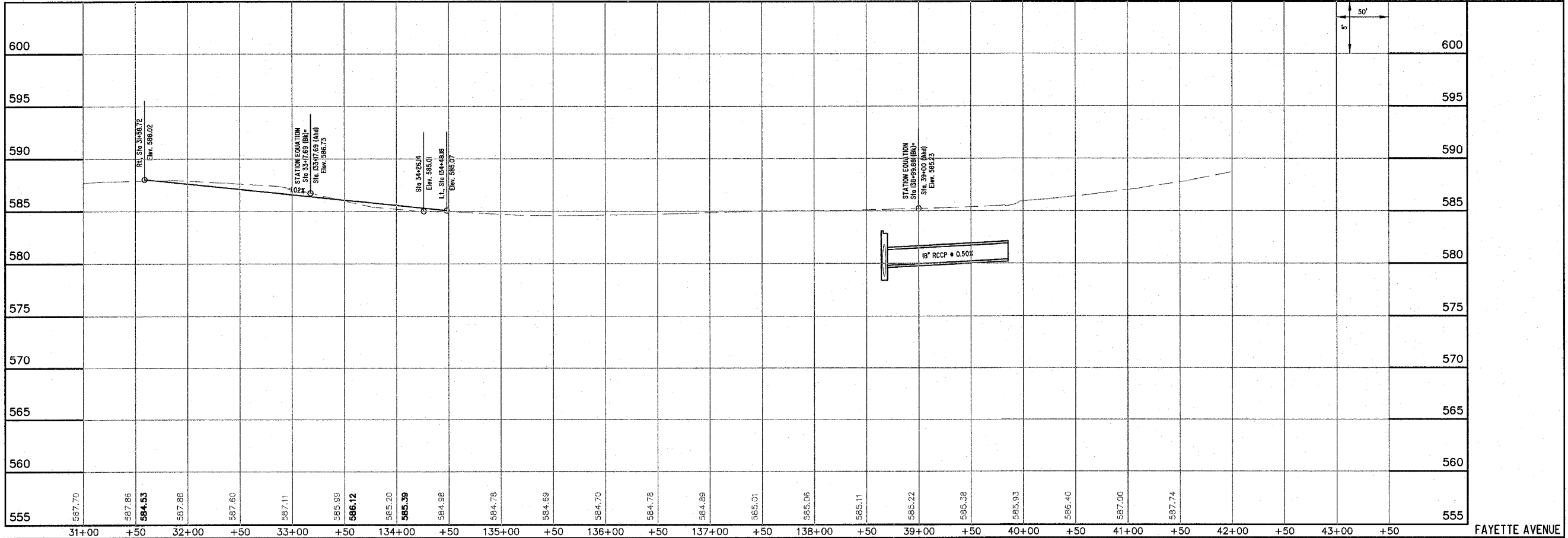
BM #1
 TOP OF IRON PIN AT NORTHWEST
 CORNER OF OVERPASS
 40' I.L.T. STA. 48+39.19
 ELEVATION=599.09

BM #2
 CHISELED SQUARE IN CONCRETE BASE
 OF THE LIGHT POLE AT PETRO
 TRUCK ENTRANCE
 ELEVATION=584.74

MILANO & GRUNLOH ENGINEERS, LLC
 14 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 Phone: (217) 347-7262
 (300) 677-2774
 Fax #: (217) 342-3433
 Web Address: www.mgeengineers.com
 Design Firm #: 104-00308

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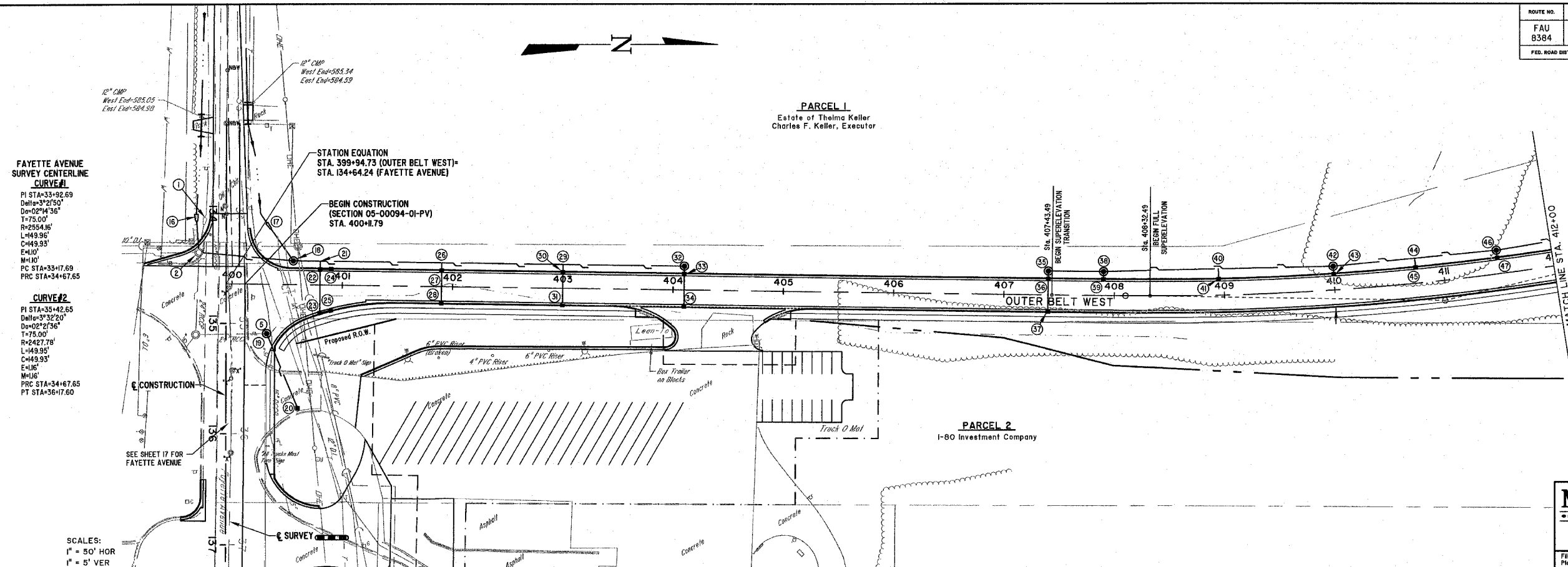
SCALES:
 1" = 50' HOR
 1" = 5' VER



FAYETTE AVENUE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	17

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-HPF-409(04)
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503



FAYETTE AVENUE SURVEY CENTERLINE CURVE #1
 PI STA=33+92.69
 Delta=3°27'50"
 Do=0°24'36"
 T=75.00'
 R=2594.16'
 L=49.95'
 C=49.93'
 E=10'
 M=10'
 PC STA=33+17.69
 PTC STA=34+67.65

CURVE #2
 PI STA=35+42.65
 Delta=3°32'20"
 Do=0°24'36"
 T=75.00'
 R=2594.16'
 L=49.95'
 C=49.93'
 E=10'
 M=10'
 PC STA=34+67.65
 PT STA=36+17.60

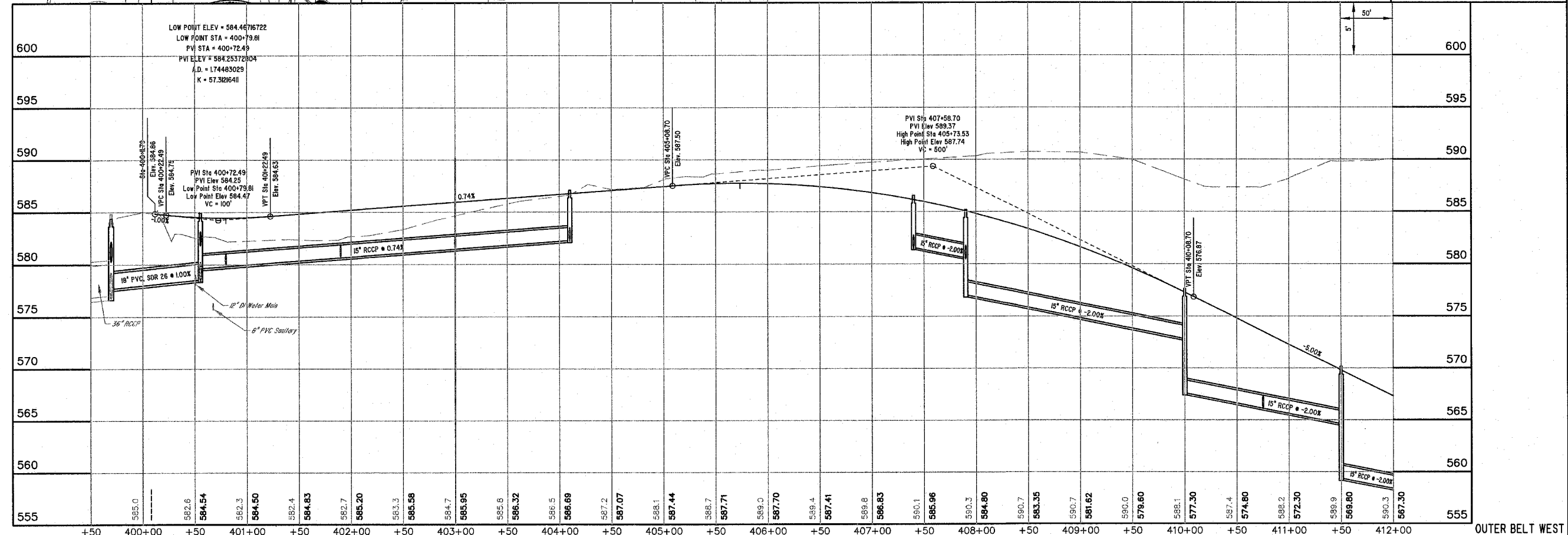
SCALES:
 1" = 50' HOR
 1" = 5' VER

OUTER BELT WEST CURVE #1
 PI STA=41+00.01
 Delta=14°24'42"
 Do=0°30'00"
 T=283.77'
 R=2231.63'
 L=576.47'
 C=574.95'
 E=8.23'
 M=8.10'
 PC STA=40+10.24
 PT STA=43+06.71
 M.S.E.=2.50X
 ATTAIN: STA 407+43.49 TO STA 408+32.49
 STA 413+33.00 TO STA 414+22.00

BM #2
 CHISELED SQUARE IN CONCRETE BASE OF THE LIGHT POLE AT PETRO TRUCK ENTRANCE
 ELEVATION=584.74

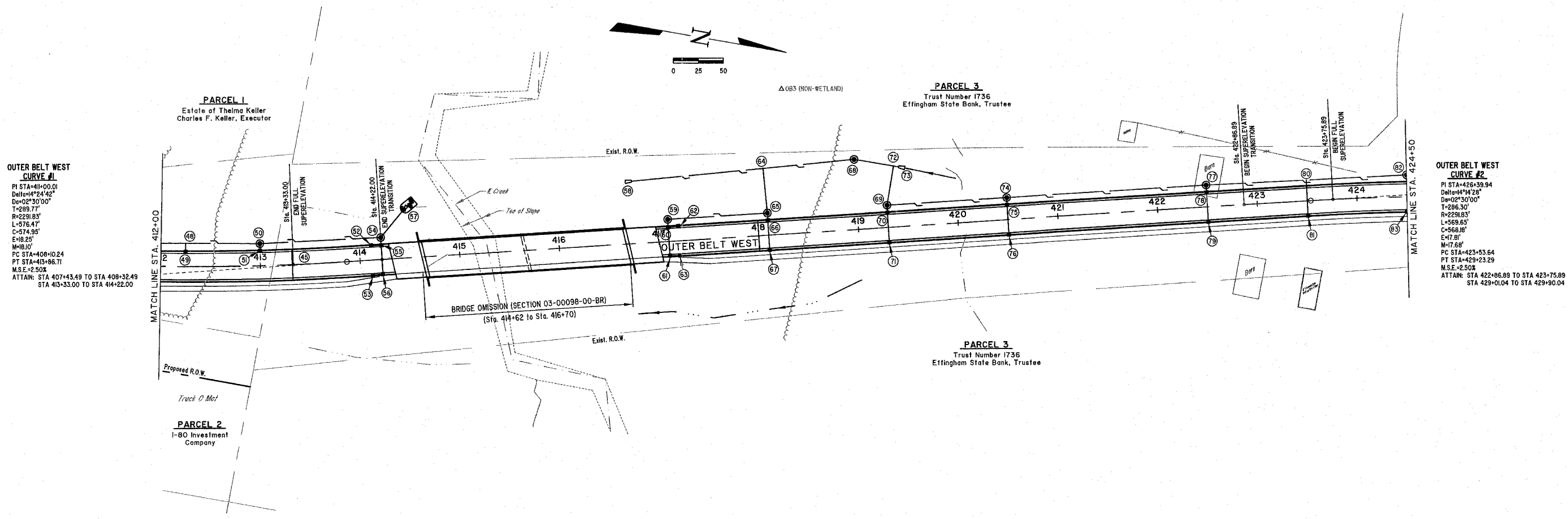
BM #3
 TOP NORTHWEST CORNER OF THE NORTHERN MOST I-BEAM ALONG THE WEST SIDE OF TRUCKOMAT PAVEMENT AT 59.5' RI, Sta. 403+43.4
 ELEVATION=592.18

MILANO & GRUNDH ENGINEERS, LLC
 14 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 Phone: (217) 347-7282
 (217) 347-3774
 Fax #: (217) 342-3433
 Web Address: www.mgengineers.com
 Design Firm #: 184-00308
 File name: S:\DWG\05\0504\dwg\Street Plans.dwg
 Plot date: 03/30/07 at 12:00 P.M. F.S. 865,584



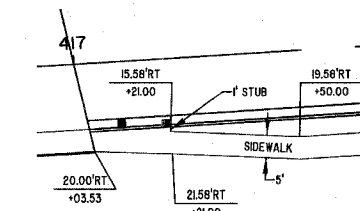
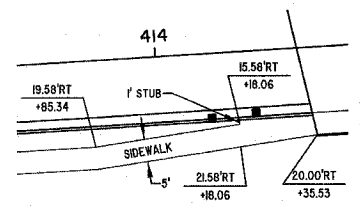
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	18

FED. ROAD DIST. NO. 7
 ILLINOIS
 FED. AID PROJECT- HFF-409104
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503



OUTER BELT WEST CURVE #1
 PI STA=411+00.01
 Delta=4°24'42"
 D=0°30'00"
 T=289.77'
 R=2291.83'
 L=576.47'
 C=574.95'
 E=18.25'
 M=16.10'
 PC STA=408+10.24
 PT STA=413+86.71
 M.S.E.=2.50%
 ATTAIN: STA 407+43.49 TO STA 408+32.49
 STA 413+33.00 TO STA 414+22.00

OUTER BELT WEST CURVE #2
 PI STA=426+39.94
 Delta=4°14'28"
 D=0°30'00"
 T=286.30'
 R=2291.83'
 L=569.65'
 C=568.80'
 E=17.61'
 M=17.68'
 PC STA=423+53.64
 PT STA=429+23.29
 M.S.E.=2.50%
 ATTAIN: STA 422+86.89 TO STA 423+75.89
 STA 429+01.04 TO STA 429+90.04



BM #4
 RAILROAD SPIKE IN TREE
 AT 67' RT, Sta. 412+55
 ELEVATION=590.31

BM #5
 RAILROAD SPIKE IN TREE
 AT 127' RT, Sta. 416+52
 ELEVATION=536.44

BM #8
 RAILROAD SPIKE IN TREE
 AT 40' L, Sta. 420+55
 ELEVATION=575.26

OUTER BELT WEST

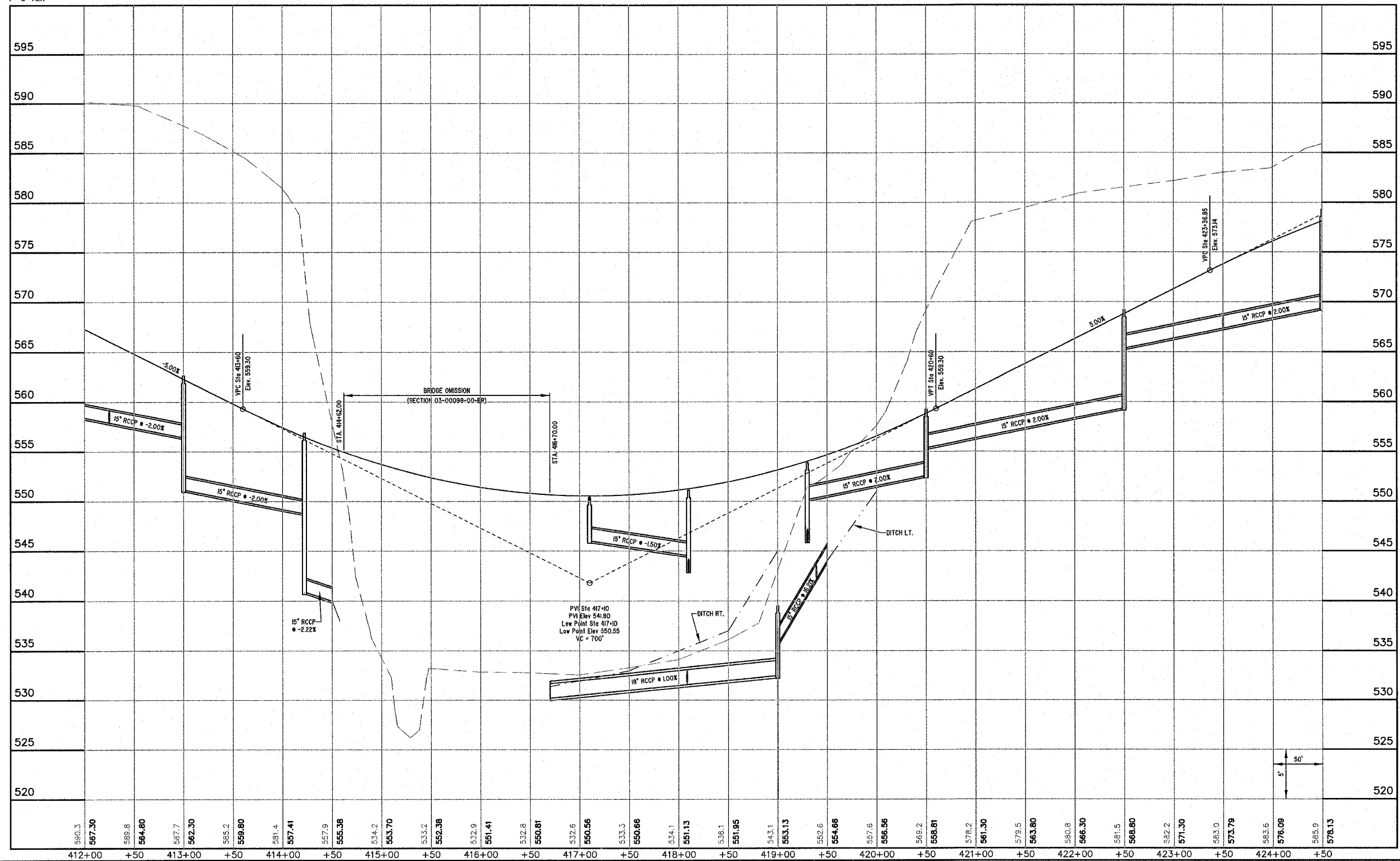
MILANO & GRUNLOH ENGINEERS, LLC
 84 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 Phone: (217) 347-7325
 (800) 577-2714
 Fax #: (217) 342-3433
 Web Address: www.mgaengineers.com
 Design Firm #: 184-003108

File name: S:\DWG\05\0504\dwg\Strref Plans.dwg
 Plot date: 03/30/07 at 12:00 P.M. 555,584

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	19

FED. ROAD DIST. NO. 7 FED. AID PROJECT: WFF-4080(4)
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

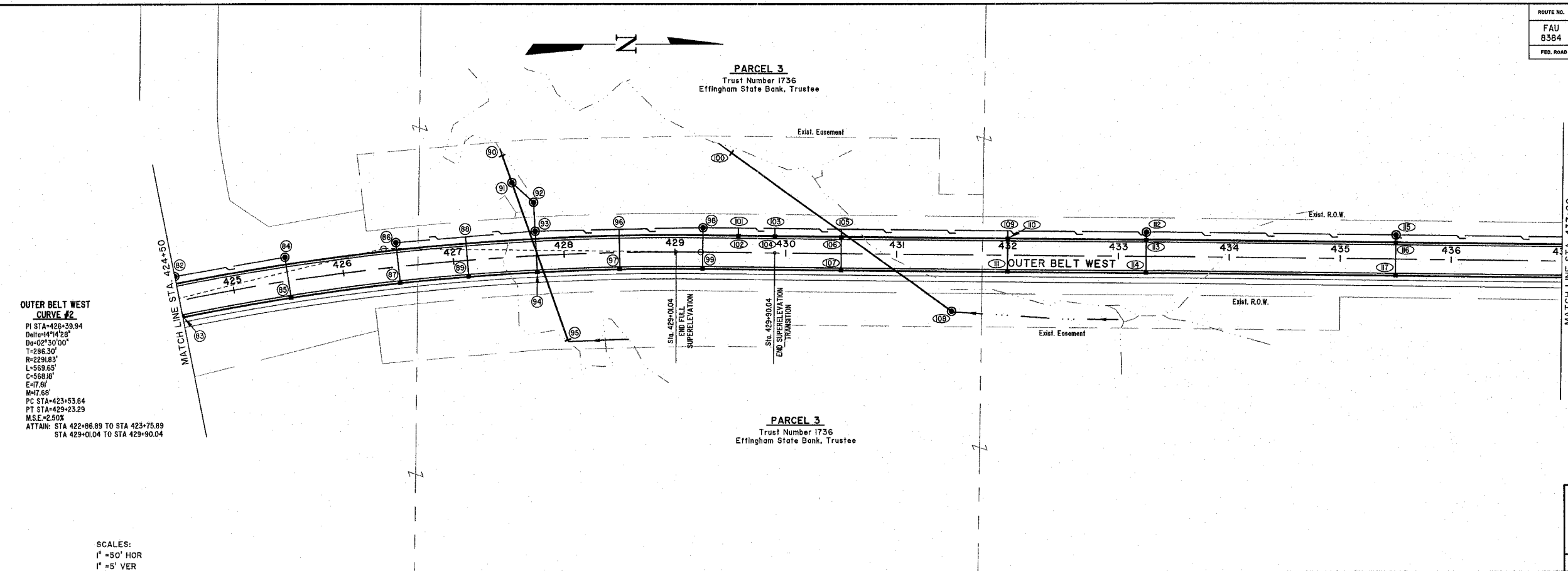
SCALES:
 1" = 50' HOR
 1" = 5' VER



OUTER BELT WEST

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	20

FED. ROAD DIST. NO. 7
 ILLINOIS
 FED. AID PROJECT-199-4090(4)
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

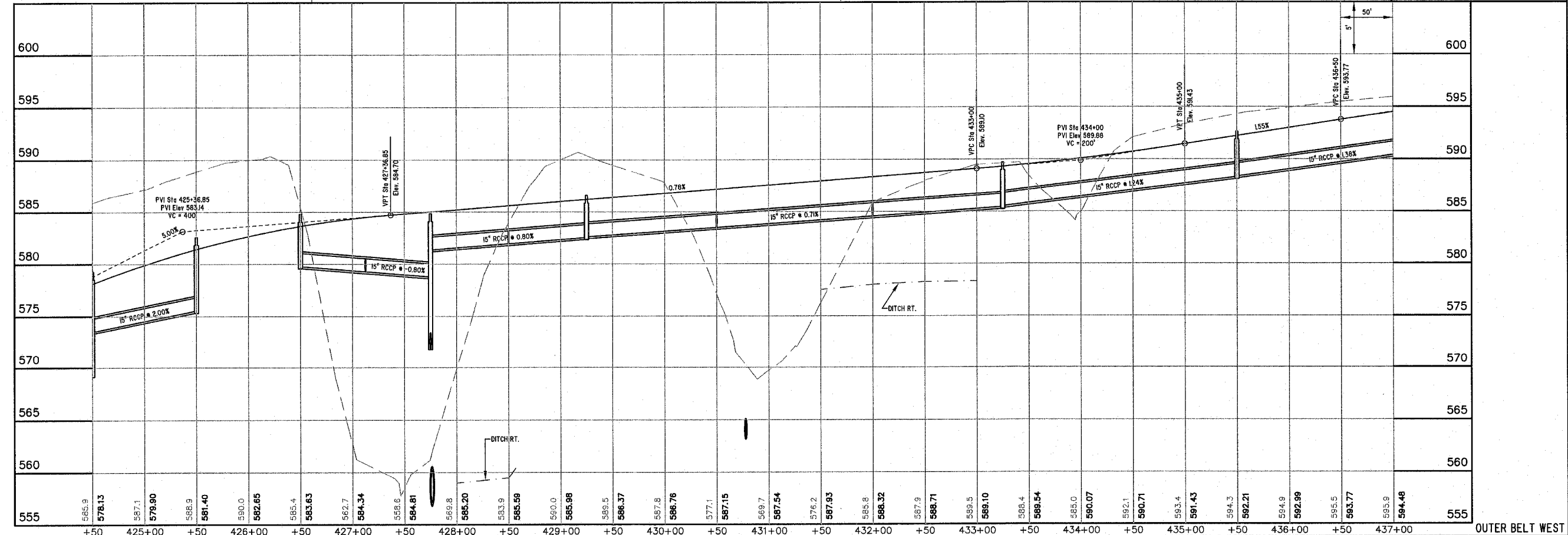


OUTER BELT WEST CURVE #2
 P1 STA=426+39.94
 Delta=141°28'
 D=0°2'30"00"
 T=286.30'
 R=2291.83'
 L=563.85'
 C=568.86'
 E=17.61'
 M=17.68'
 PC STA=423+53.64
 PT STA=429+23.29
 M.S.E.=2.50%
 ATTAIN: STA 422+66.89 TO STA 423+75.89
 STA 429+00.04 TO STA 429+90.04

- BM #9**
RAILROAD SPIKE IN TREE
AT 30'R, Sta. 426+30
ELEVATION=562.65
- BM #10**
RAILROAD SPIKE IN TREE
AT 60'R, Sta. 429+70
ELEVATION=592.69
- BM #11**
RAILROAD SPIKE IN TREE
AT 70'L, Sta. 432+45
ELEVATION=593.44
- BM #12**
RAILROAD SPIKE IN TREE
AT 40'R, Sta. 435+20
ELEVATION=594.58

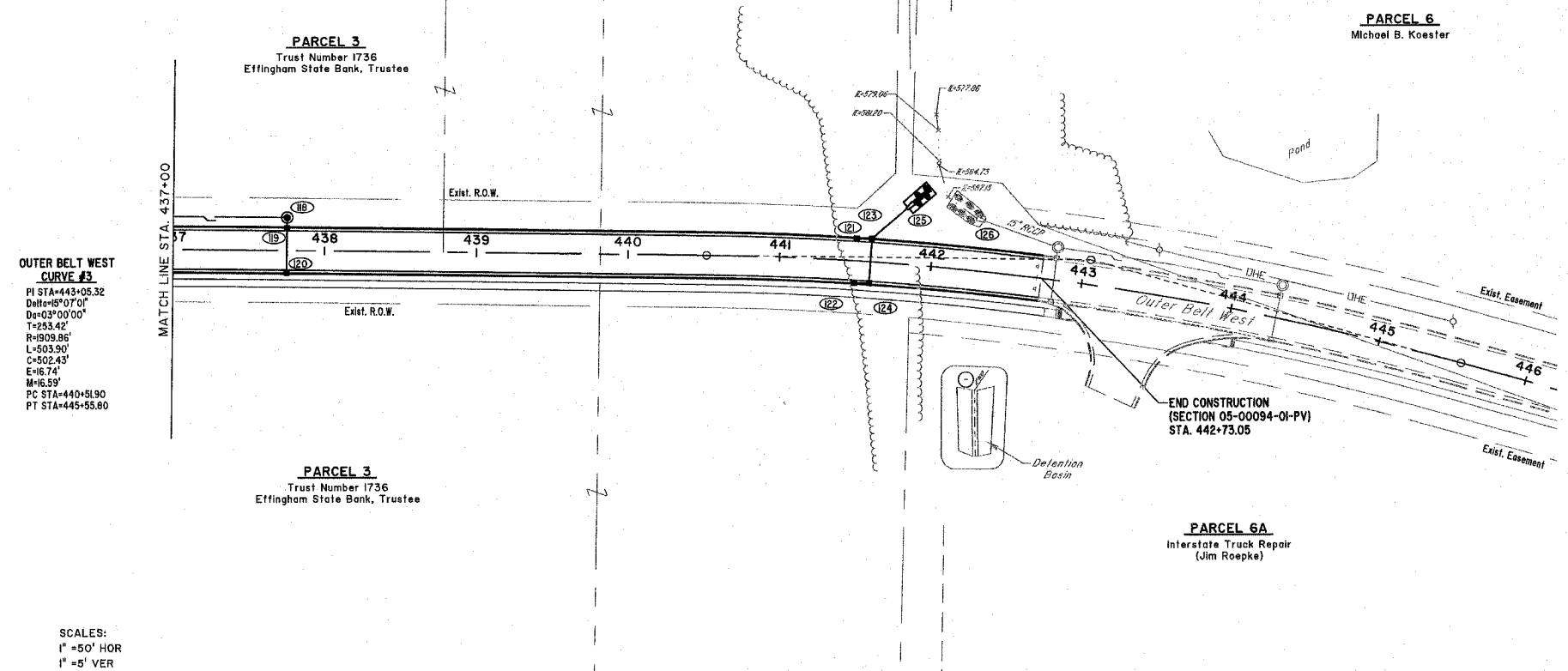
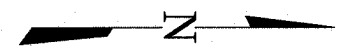
MILANO & GRUNDY ENGINEERS, LLC
 84 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 Phone: (817) 347-7282
 (800) 677-5774
 Fax #: (817) 342-3433
 Web Address: www.mgengineers.com
 Design Firm #: 184-00308
 File name: S:\DWS\05\0501\1.dwg\Street Plans.dwg
 Plot date: 05/30/07 at 10:00 7.8.655.884

SCALES:
 1" = 50' HOR
 1" = 5' VER



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8394	*	EFFINGHAM	95	21
FED. ROAD DIST. NO. 7		CLINING	FED. AID PROJECT- HPY-40902(4)	

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



**OUTER BELT WEST
CURVE #3**
 PI STA=443+05.32
 Del=16°07'01"
 De=03°00'00"
 T=253.42'
 R=1909.86'
 L=503.90'
 C=502.43'
 E=16.74'
 M=16.59'
 PC STA=440+51.90
 PT STA=445+55.80

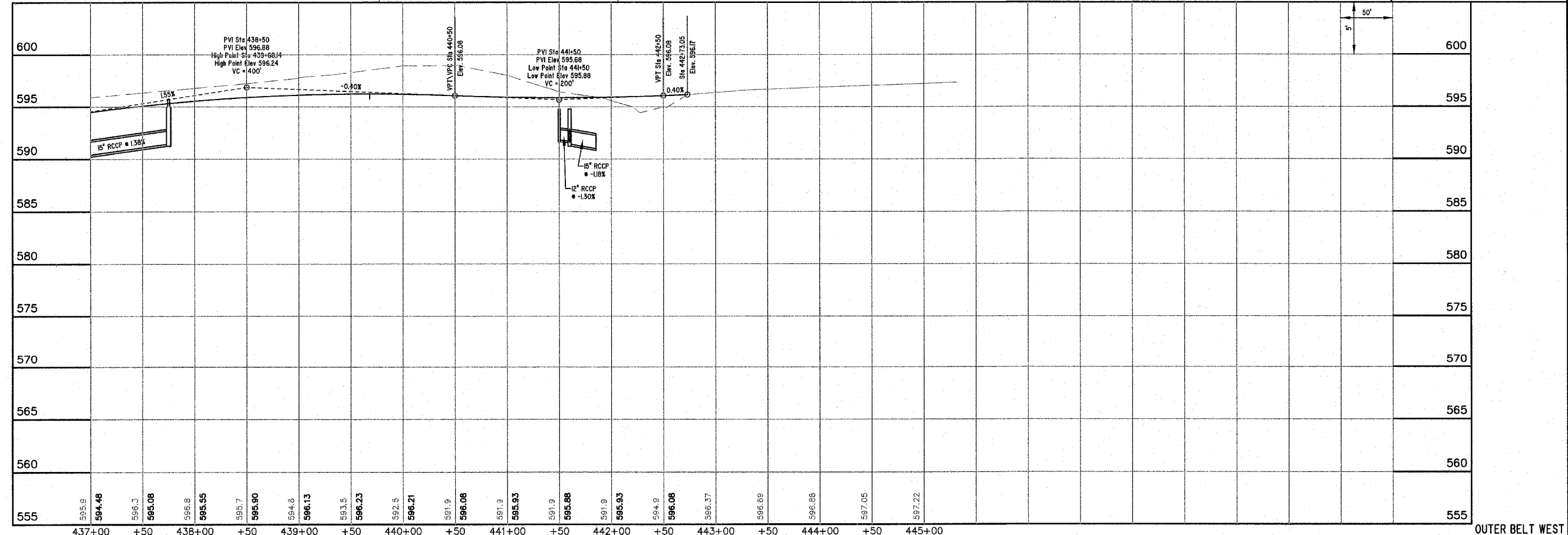
BM #12
RAILROAD SPIKE IN TREE
AT 40' RI, Sta. 435+20
ELEVATION=594.56

BM #13
TOP OF IRON PIN
(CONTROL POINT #4122)
35' L.T. STA. 442+67.35
ELEVATION=595.50

MILANO & GRUNDY ENGINEERS, LLC
 84 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 Phone: (217) 347-7262
 (800) 577-5794
 Fax #: (217) 342-3433
 Web Address: www.mpeengineers.com
 Design Firm #: 184-00308

File name: S:\DWG\05\0504\dwg\Street Plans.dwg
 Plot date: 03/30/07 at 12:00

SCALES:
 1" = 50' HOR
 1" = 5' VER



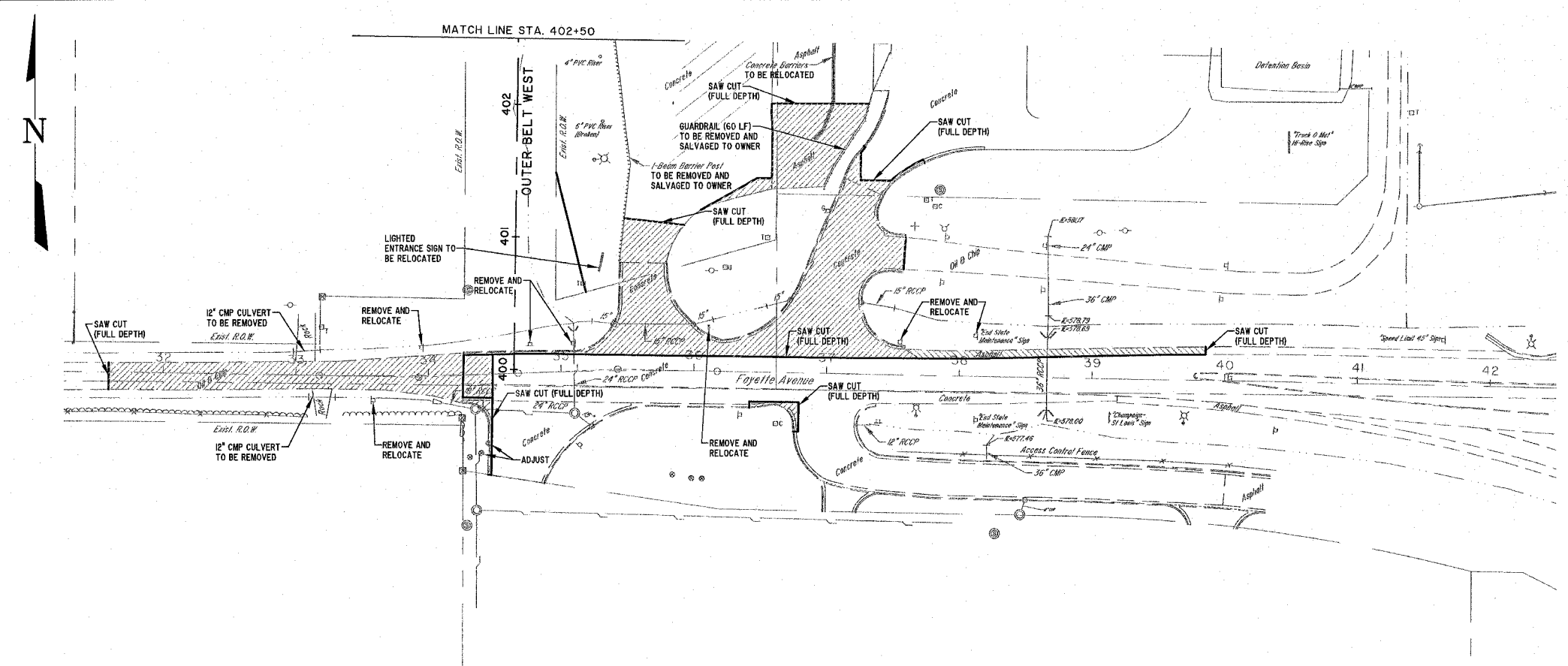
OUTER BELT WEST

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	22
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-NPP-408004		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

FAYETTE AVENUE SURVEY CENTERLINE CURVE #1
 PI STA=33+92.89
 Delta=3°21'50"
 D=02°14'36"
 T=75.00'
 R=2554.16'
 L=49.95'
 C=49.93'
 E=1.0'
 M=1.0'
 PC STA=35+47.69
 PRC STA=34+67.65

CURVE #2
 PI STA=35+42.65
 Delta=3°52'00"
 D=02°21'36"
 T=75.00'
 R=2427.78'
 L=49.95'
 C=49.93'
 E=1.0'
 M=1.0'
 PC STA=34+67.65
 PT STA=36+17.60



LEGEND

[Hatched Pattern]	PAVEMENT REMOVAL & CURB AND GUTTER REMOVAL
[Hatched Pattern]	BITUMINOUS SHOULDER REMOVAL
[Hatched Pattern]	BUILDING STRUCTURE REMOVAL

LOCATION	PAVEMENT REMOVAL	DRIVEWAY PAVEMENT REMOVAL	CURB & GUTTER REMOVAL	BITUMINOUS SHOULDER REMOVAL	GUARDRAIL POST REMOVAL	GUARDRAIL REMOVAL
Rt. 403+93 to Rt. 404+79	SY	31	LF	SY	EACH	LF
31+59 to 34+49	396					
Rt. 34+25 to Rt. 34+49			69			
Lt. 35+18 to Lt. 37+68		1492				
Rt. 36+42 to Rt. 36+79			48			
Lt. 34+27 to 35+46		11	169			
Lt. 37+58 to Lt. 37+70			185			
Lt. 37+59 to Lt. 39+85				150	85	60
TruckOMat Site	396	384	30	150	85	60
		1918	501	150	85	60

STORM SEWER REMOVAL

LOCATION	15" RCCP FOOT	18" RCCP FOOT
Rt. Sta. 34+03 to 34+40		24
Lt. Sta. 35+24 to 35+40	16	
Lt. Sta. 35+40 to 35+99	58	
Lt. Sta. 35+99 to 36+14	15	
Lt. Sta. 36+54 to 36+72	18	
Lt. Sta. 37+25 to 37+50	25	
TOTAL	132	24

STORM SEWER TO BE FILLED

LOCATION	24" RCCP FOOT
Rt. Sta. 35+10 to Lt. Sta. 35+10	61

INLETS TO BE REMOVED (SPECIAL)

LOCATION	EACH
Lt. Sta. 35+40	1
Lt. Sta. 35+99	1
Lt. Sta. 36+72	1
Lt. Sta. 37+25	1
TOTAL	4

CONCRETE HEADWALL REMOVAL

LOCATION	EACH
Lt. Sta. 35+10	1
Lt. Sta. 38+66	1
TOTAL	2

INLETS TO BE ABANDONED (SPECIAL)

LOCATION	EACH
Rt. Sta. 34+40	1

VALVE BOXES TO BE ADJUSTED

LOCATION	EACH
Rt. Sta. 34+38	1
Rt. Sta. 34+44	1
TOTAL	2

MANHOLES TO BE REMOVED

LOCATION	EACH
Rt. Sta. 34+35	1

PAVEMENT MARKING REMOVAL

LOCATION	LF
34+26 to 39+68.5	626
TruckOMat Site	1145
Total	1771

RELOCATE EXISTING FLARED END SECTION

EXISTING LOCATION	PROPOSED LOCATION	EACH
19.39/Rt. Sta. 34+03.29	27.15/Rt. Sta. 34+00	1

RELOCATE SIGN PANEL AND POST

LOCATION	EACH	MESSAGE
Rt. 33+58	1	SPEED LIMIT - 45 MPH
Lt. 33+95	1	LOCAL TRAFFIC
Lt. 34+77	1	INTERSTATE DIRECTION
Lt. 35+10	1	END SPEED ZONE
Lt. 36+10	1	ALL TRUCKS MUST TURN
Lt. 37+55	1	FRONTAGE ROAD
Lt. 38+12	1	END STATE MAINTENANCE
Total	7	

TREE REMOVAL

LOCATION	ACRE
400+11.79 to 414+62	2.36
416+70 to 442+73.05	4.48
TOTAL	6.8

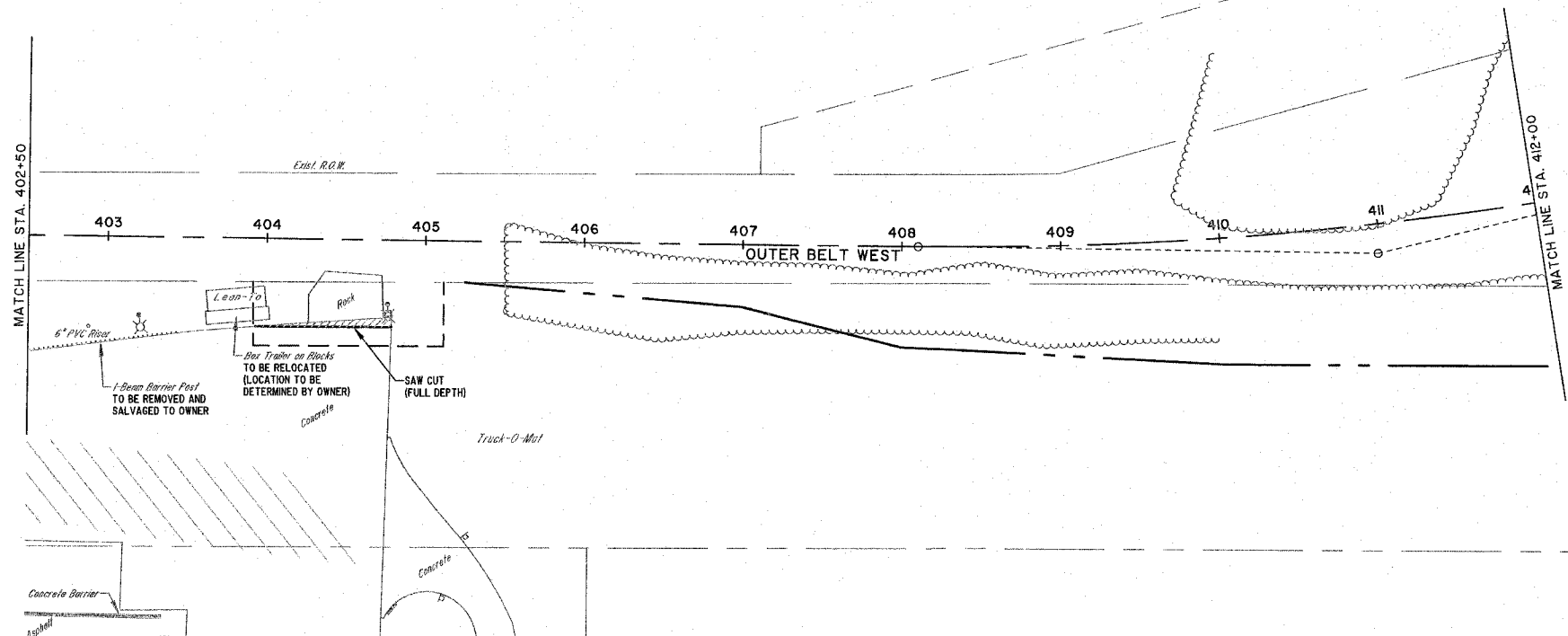
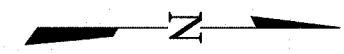
MILANO & GRUNLOH ENGINEERS, LLC
 84 WEST WASHINGTON
 P.O. BOX 887
 EFFINGHAM, ILLINOIS 62401
 PHONE: (217) 347-7262
 (800) 677-2794
 FAX #: (217) 342-3433

File name: S:\DWG\05\0504\0504\Removal Plan.dwg
 Plot date: 03/30/07 at 12:00
 FA: 555,664,603

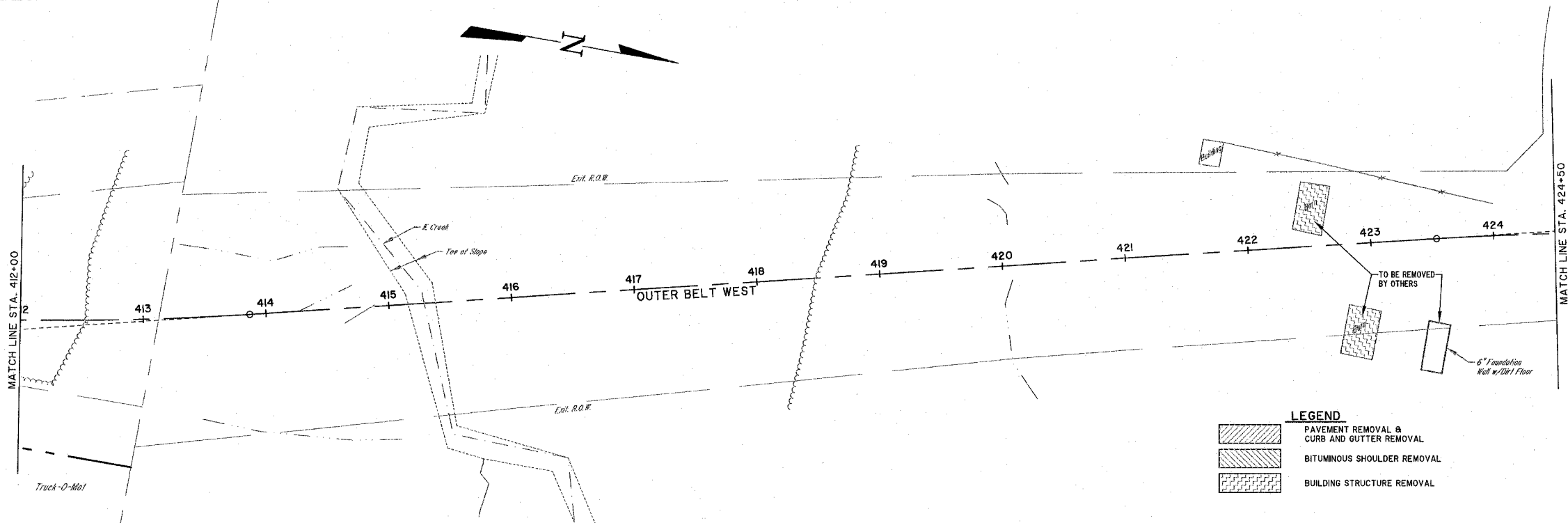
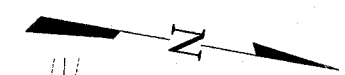
REMOVAL PLAN
 FAYETTE AVENUE
 STA. 31+50 TO STA 42+50
 EFFINGHAM, ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8304	#	EFFINGHAM	95	23
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- MPP-409(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



OUTER BELT WEST CURVE #1
 PI STA=411+00.01
 Delta=14°24'42"
 D=02°30'00"
 T=289.77'
 R=2291.83'
 L=576.47'
 C=574.95'
 E=18.25'
 M=18.10'
 PC STA=408+10.24
 PT STA=413+86.71



OUTER BELT WEST CURVE #1
 PI STA=411+00.01
 Delta=14°24'42"
 D=02°30'00"
 T=289.77'
 R=2291.83'
 L=576.47'
 C=574.95'
 E=18.25'
 M=18.10'
 PC STA=408+10.24
 PT STA=413+86.71

OUTER BELT WEST CURVE #2
 PI STA=423+39.94
 Delta=14°14'21"
 D=02°30'00"
 T=286.30'
 R=2291.83'
 L=569.65'
 C=568.18'
 E=17.61'
 M=17.69'
 PC STA=423+53.54
 PT STA=429+23.29

- LEGEND**
- PAVEMENT REMOVAL & CURB AND GUTTER REMOVAL
 - BITUMINOUS SHOULDER REMOVAL
 - BUILDING STRUCTURE REMOVAL

MILANO & GRUNLOH ENGINEERS, LLC
 14 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 PHONE: (217) 347-7282
 (800) 677-2714
 FAX #: (217) 342-3433

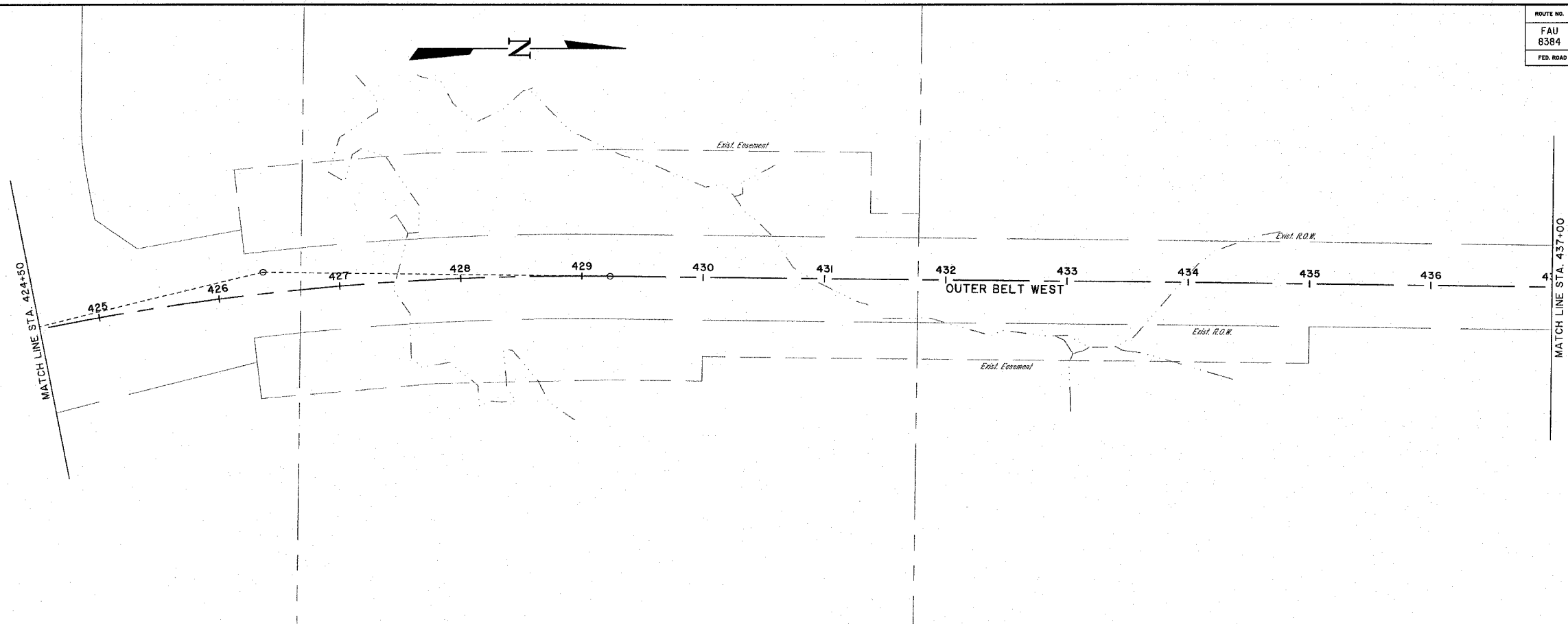
REMOVAL PLAN
 OUTER BELT WEST
 STA. 399+50 TO STA 424+50
 EFFINGHAM, ILLINOIS

File name: S:\DWG\05\05004\dwg\Removal Plan.dwg
 Plot date: 03/30/07 at 12:00
 FB: 555,664,603

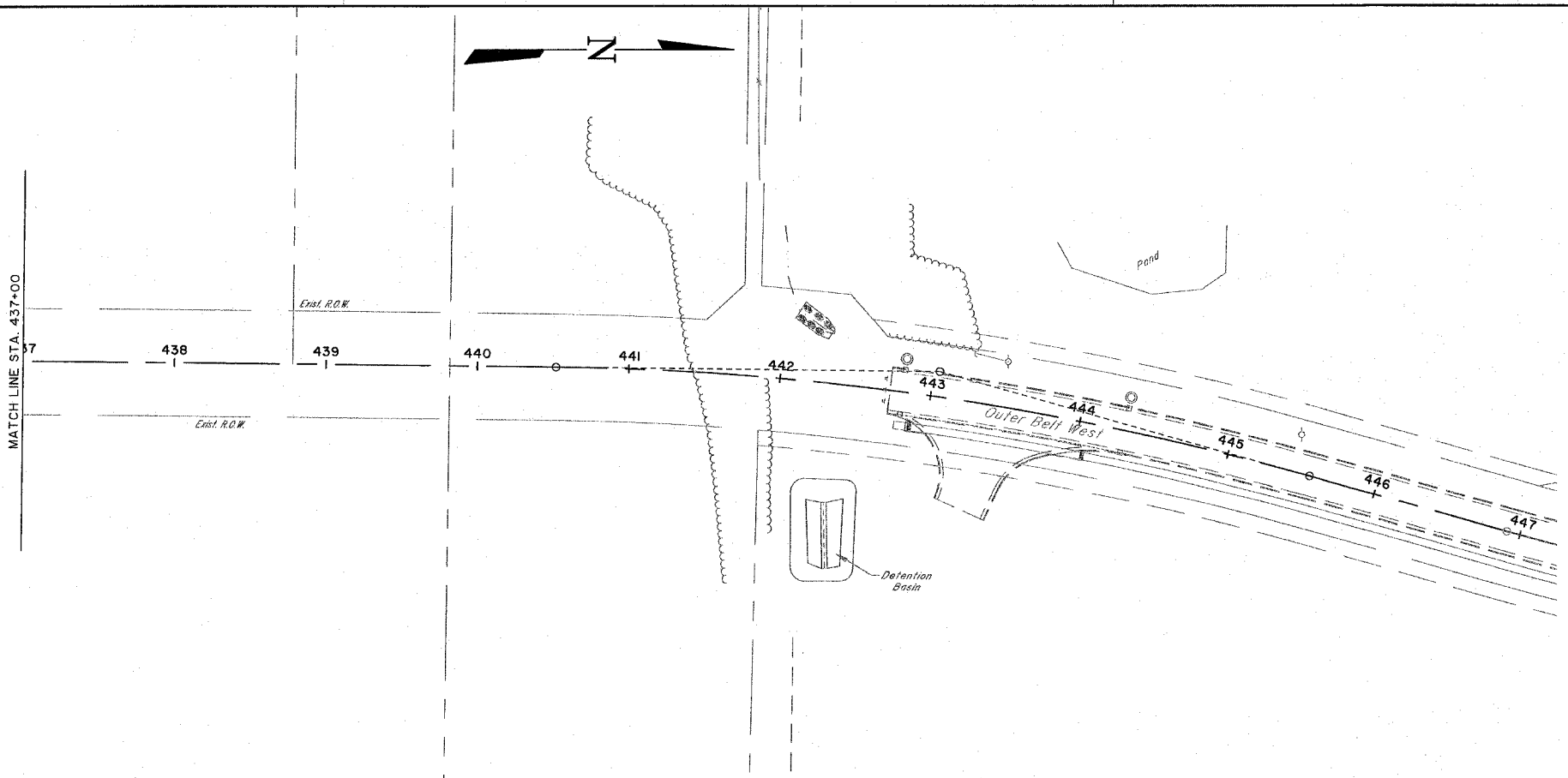
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6384	#	EFFINGHAM	95	24
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - HPP-408004		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

**OUTER BELT WEST
CURVE #2**
PI STA=426+39.94
Delta=14°14'28"
De=02°30'00"
T=286.30'
R=229.63'
L=569.63'
C=568.18'
E=17.81'
M=17.68'
PC STA=423+53.64
PT STA=429+23.29



**OUTER BELT WEST
CURVE #3**
PI STA=443+05.32
Delta=15°07'01"
De=03°00'00"
T=253.42'
R=300.86'
L=503.90'
C=502.43'
E=16.74'
M=16.50'
PC STA=440+51.90
PT STA=445+55.80



LEGEND

	PAVEMENT REMOVAL & CURB AND GUTTER REMOVAL
	BITUMINOUS SHOULDER REMOVAL
	BUILDING STRUCTURE REMOVAL

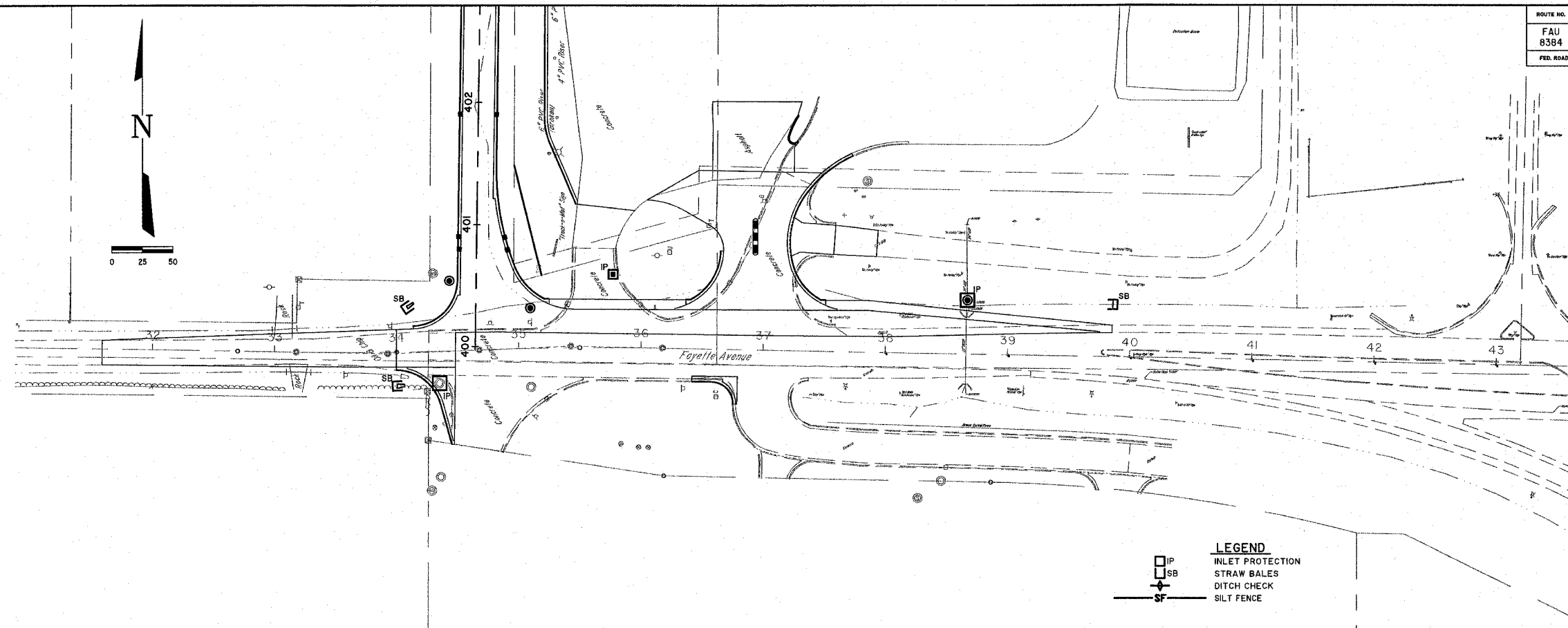
MILANO & GRUNLOH ENGINEERS, LLC
14 WEST WASHINGTON
P.O. BOX 857
EFFINGHAM, ILLINOIS 62401
PHONE: (217) 347-7262
(800) 677-2774
FAX #: (217) 342-3433

REMOVAL PLAN
OUTER BELT WEST
STA 424+50 TO STA 447+00
CITY OF EFFINGHAM, ILLINOIS

File name: S:\DWG\05\0504\veg\Removal Plans.dwg
Plot date: 03/30/07 at 12:00
FR 555,584

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	25
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- HPP-408(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



LEGEND

	INLET PROTECTION
	STRAW BALES
	DITCH CHECK
	SILT FENCE

EROSION CONTROL SCHEDULE					
LOCATION	INLET AND PIPE PROTECTION	INLET FILTERS	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	SEDIMENT CONTROL
	EACH	EACH	EACH	FOOT	EACH
FAYETTE AVENUE					
Lt. 134+08.5	1				
Rt. 134+00.5	1				
Rt. 134+35.3		1			1
Lt. 135+76.9		1			1
Lt. 138+67.0		1			1
Lt. 39+85.6	1				
OUTER BELT WEST					
400+79.8 to 441+60		60			60
Rt. 416+70 to 419+00			4		
Lt. 416+70 to 419+25				255	
Rt. 416+70 to 418+75				205	
Rt. 419+50	1				
Rt. 419+50 to 420+00			1		
Lt. 426+75 to 431+00				488	
Rt. 428+00	1				
Rt. 428+50 to 428+56.7			1		
Rt. 431+50 to 433+00			2		
Lt. 441+25 to 442+73				159	
Lt. 441+60	1				
TOTAL	6	63	8	1107	63

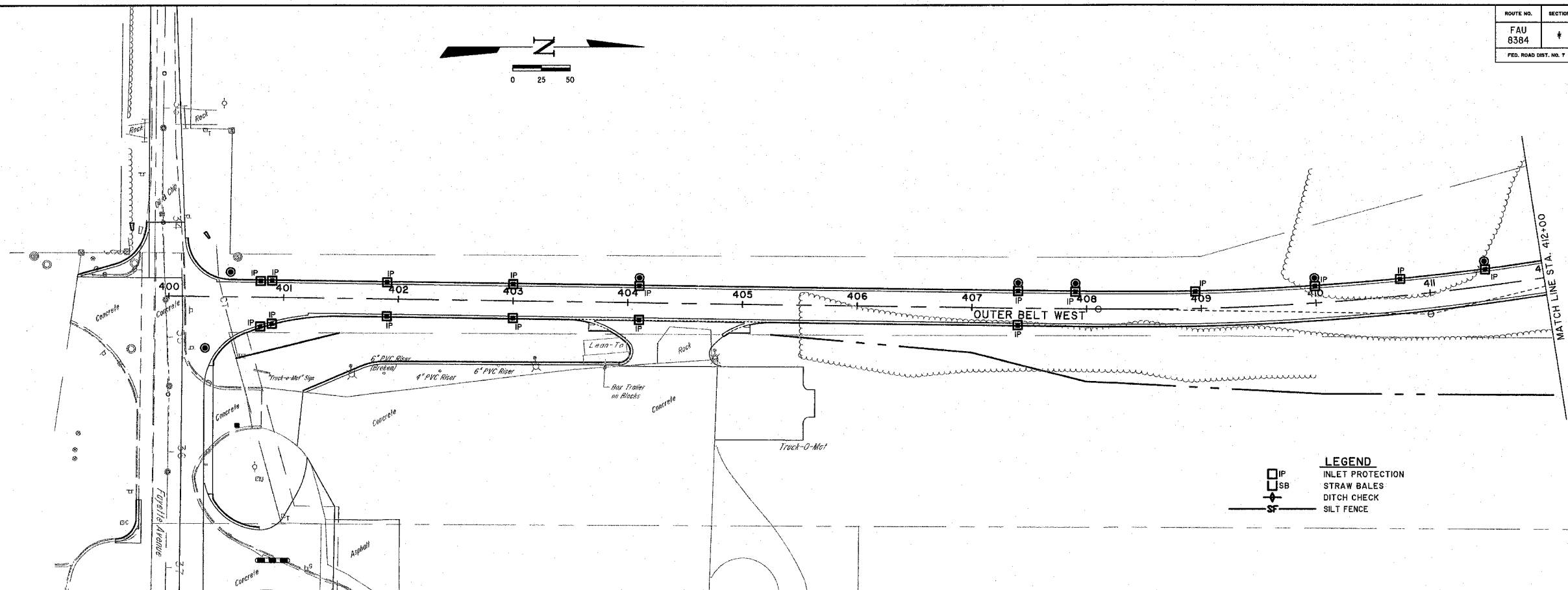
MILANO & GRUNLOH ENGINEERS, LLC
 14 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 PHONE: (217) 547-7262
 (800) 677-2714
 FAX #: (217) 342-3433

EROSION CONTROL PLAN
 FAYETTE AVENUE
 STA. 32+00 TO STA 42+00
 CITY OF EFFINGHAM, ILLINOIS

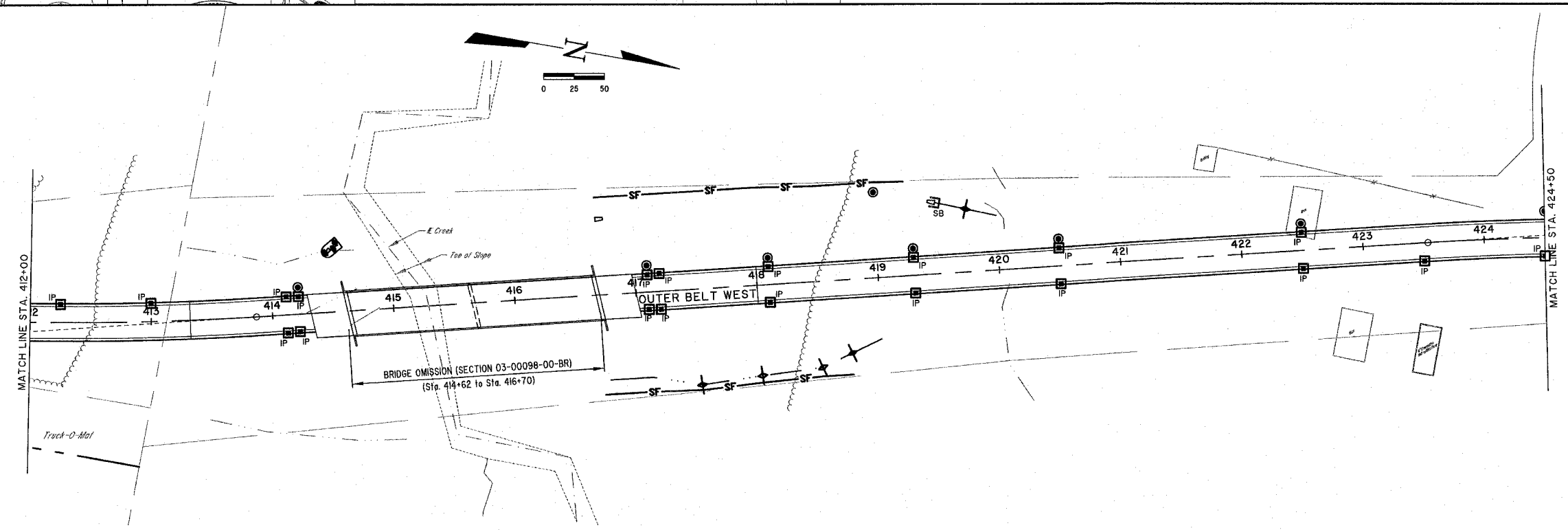
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	26
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- HPP-409(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



LEGEND
 IP INLET PROTECTION
 SB STRAW BALES
 DC DITCH CHECK
 SF SILT FENCE



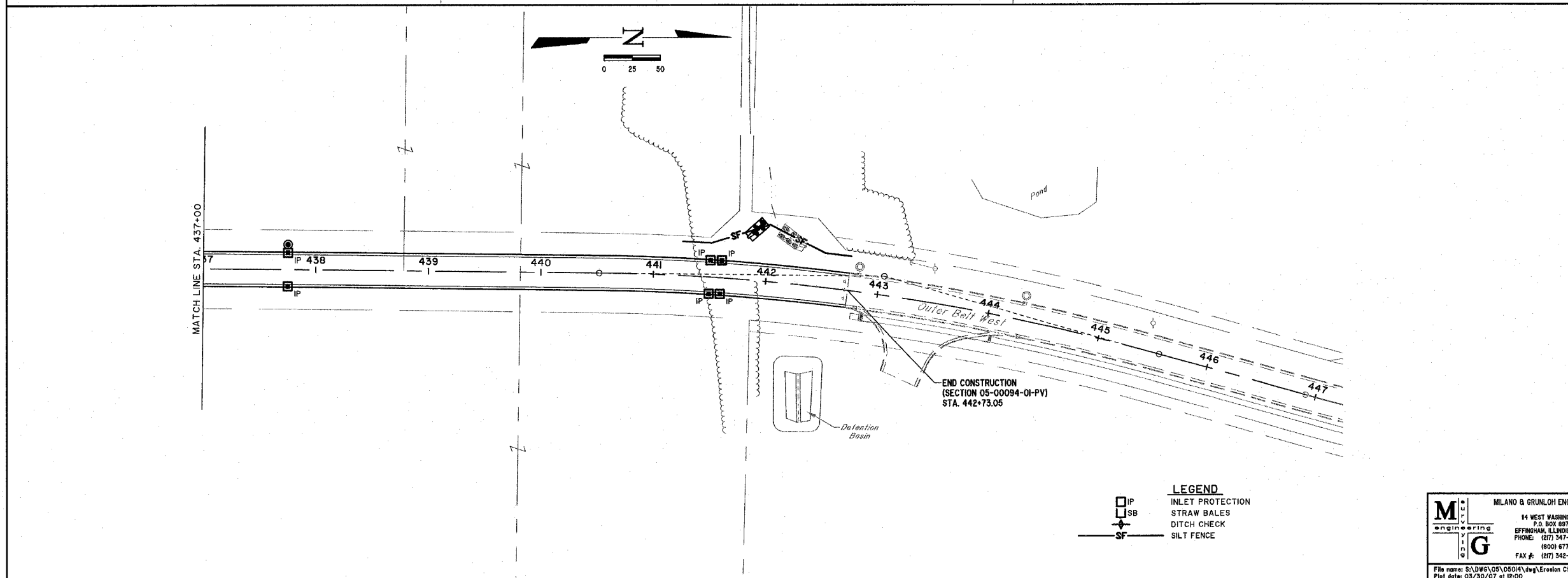
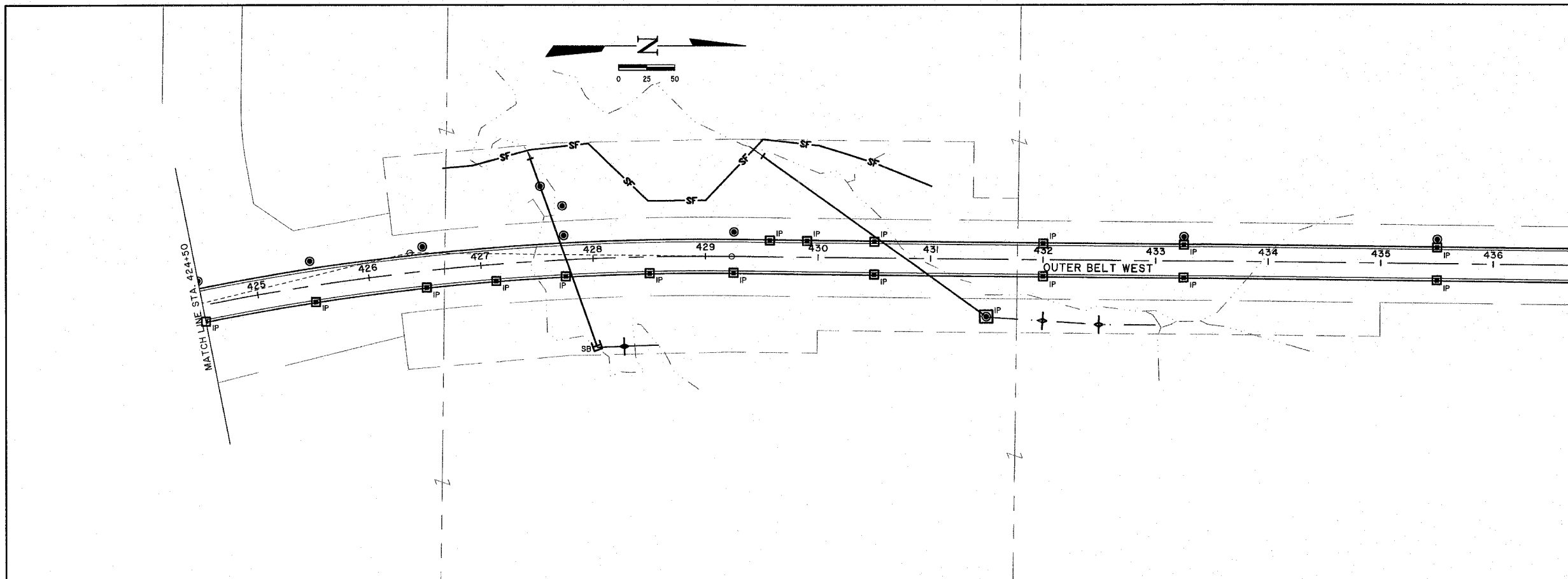
MILANO & GRUNLOH ENGINEERS, LLC
 14 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 PHONE: (217) 347-7262
 (800) 677-2714
 FAX #: (217) 342-3433

EROSION CONTROL PLAN
 OUTER BELT WEST
 STA. 399+50 TO STA 424+50
 CITY OF EFFINGHAM, ILLINOIS

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 P.L. 555,584

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	27
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- HPP-409(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



LEGEND

	INLET PROTECTION
	STRAW BALES
	DITCH CHECK
	SILT FENCE

MILANO & GRUNLOH ENGINEERS, LLC
 14 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 PHONE: (217) 347-7262
 (800) 677-2714
 FAX #: (217) 342-3433

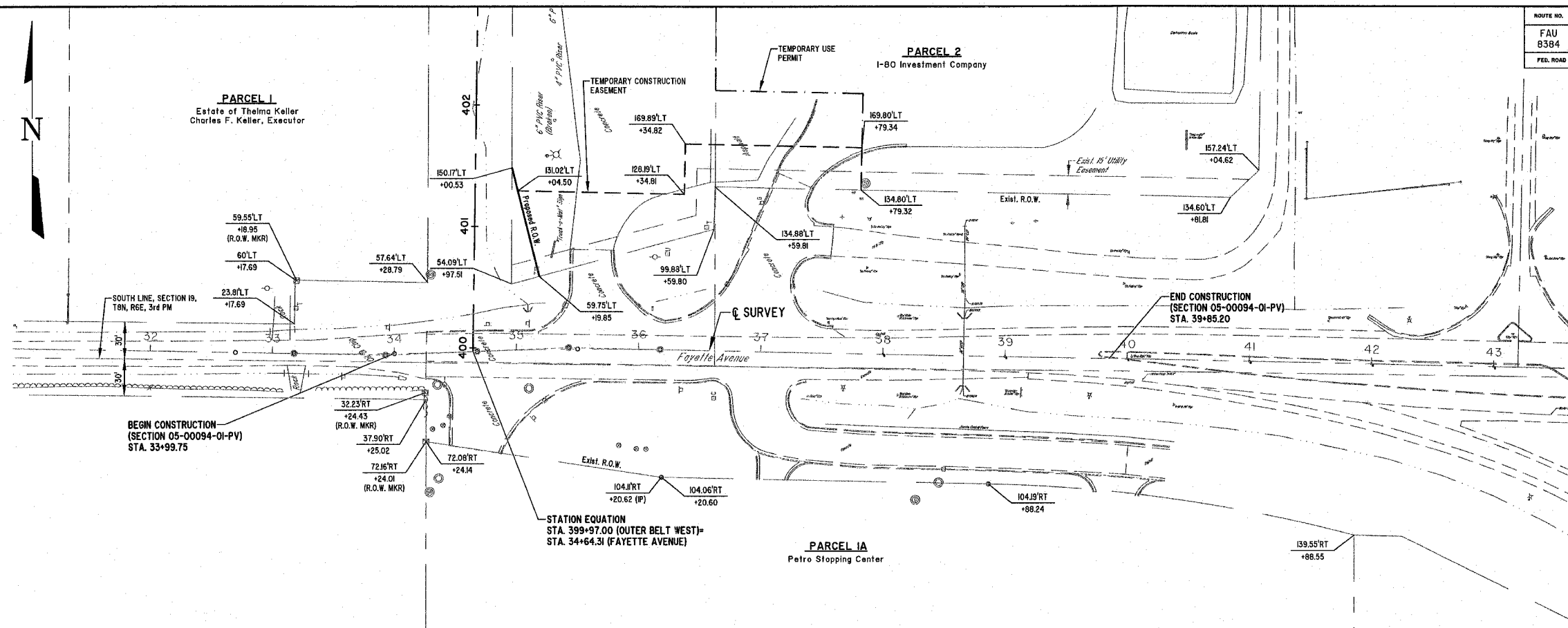
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 F.B. 555,584

EROSION CONTROL PLAN
 OUTER BELT WEST
 STA 424+50 TO STA 447+00
 CITY OF EFFINGHAM, ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	28
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- HPP-408(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



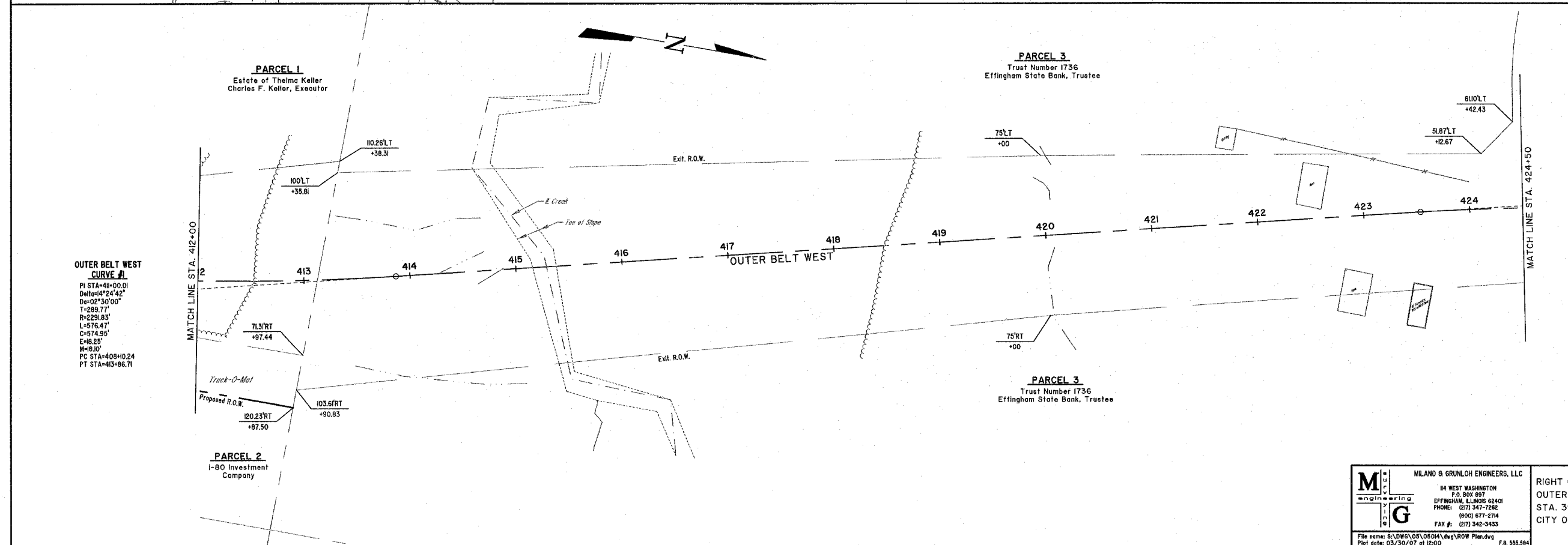
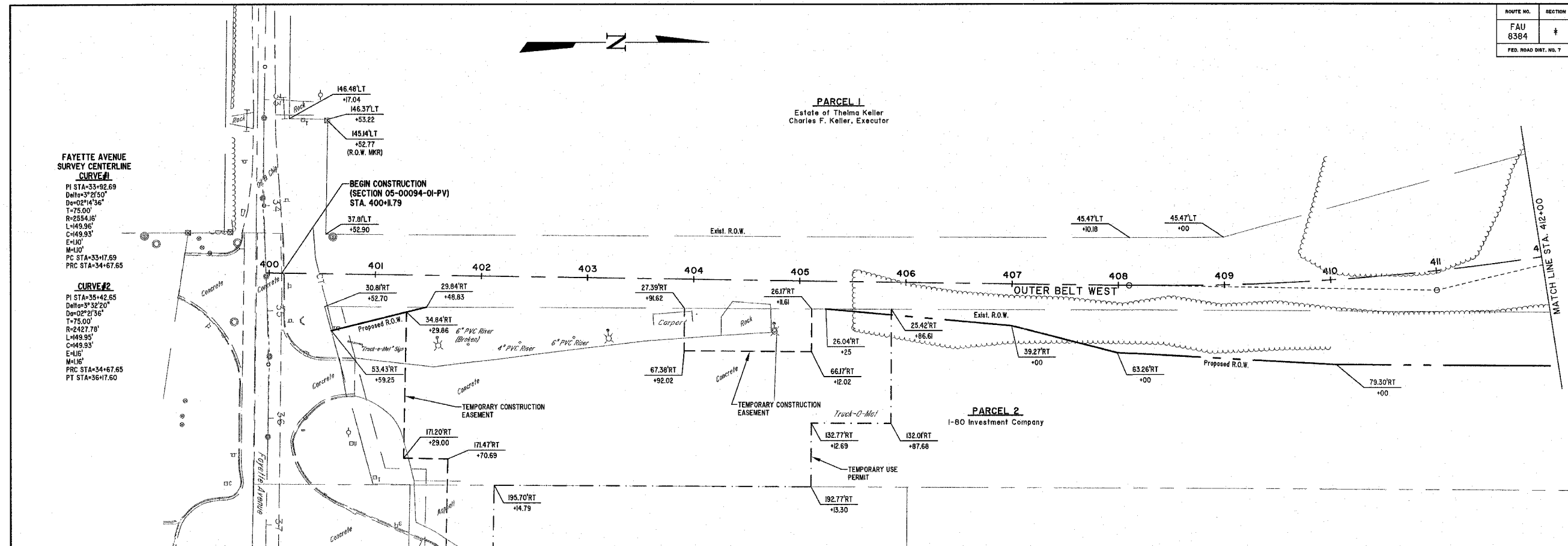
FAYETTE AVENUE SURVEY CENTERLINE
CURVE #1
PI STA=33+92.69
Delta=3°32'50"
D=02°14'36"
T=75.00'
R=2554.16'
L=449.95'
C=449.95'
E=110'
M=110'
PC STA=33+47.69
PRC STA=34+67.65

CURVE #2
PI STA=35+42.65
Delta=3°32'50"
D=02°14'36"
T=75.00'
R=2427.78'
L=449.95'
C=449.95'
E=116'
M=116'
PC STA=34+67.65
PT STA=36+17.60

	MILANO & GRUNLOH ENGINEERS, LLC	RIGHT OF WAY PLAN FAYETTE AVENUE STA. 32+00 TO STA 42+00 CITY OF EFFINGHAM, ILLINOIS
	14 WEST WASHINGTON P.O. BOX 897 EFFINGHAM, ILLINOIS 62401	
	PHONE: (217) 847-7262 (800) 677-2714	
	FAX #: (217) 842-3433	
File name: S:\DWG\05\050041.dwg, ROW Plan.dwg Plot date: 03/30/07 at 12:00		F.R. 555,584

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6384	#	EFFINGHAM	95	29
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT: HPY-408004		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



MILANO & GRUNLOH ENGINEERS, LLC
84 WEST WASHINGTON
P.O. BOX 897
EFFINGHAM, ILLINOIS 62401
PHONE: (217) 343-7282
(800) 871-2714
FAX #: (217) 342-3433

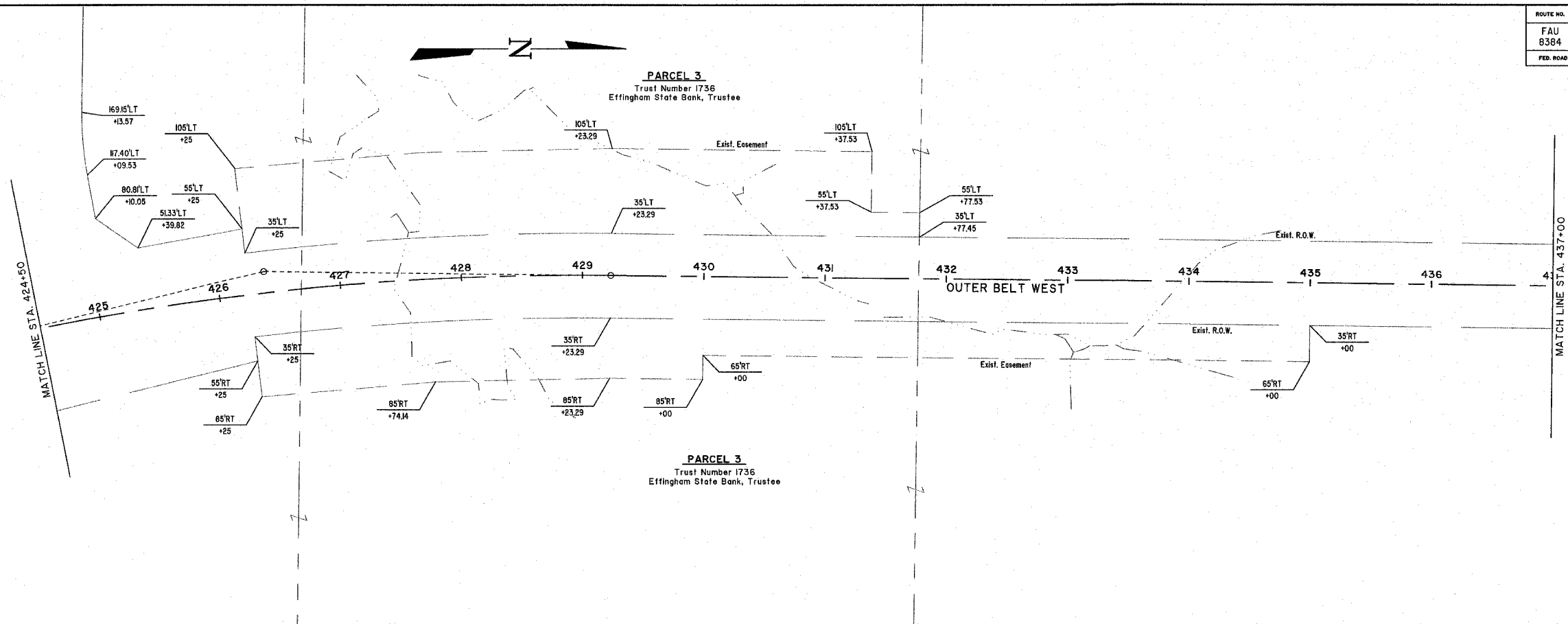
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Plot date: 03/30/07 at 12:00

RIGHT OF WAY PLAN
OUTER BELT WEST
STA. 399+50 TO STA 424+50
CITY OF EFFINGHAM, ILLINOIS

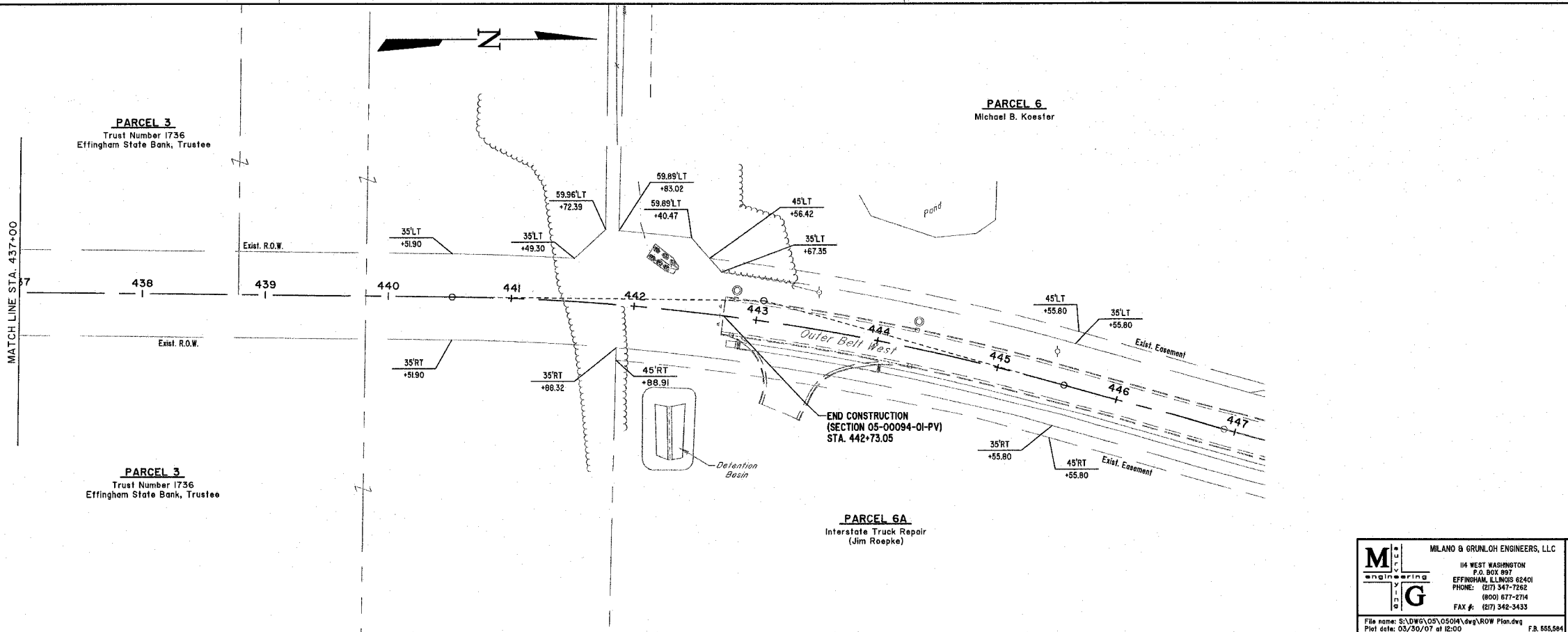
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FAU 8384	#	EFFINGHAM	95	30
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- HPP-409(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

**OUTER BELT WEST
CURVE #2**
PI STA=426+39.94
Delta=14°14'28"
De=02°30'00"
T=286.30'
R=2291.83'
L=569.65'
C=569.18'
E=17.8'
M=17.69'
PC STA=423+53.64
PT STA=429+23.29



**OUTER BELT WEST
CURVE #3**
PI STA=443+05.32
Delta=45°07'01"
De=03°00'00"
T=233.42'
R=1909.86'
L=503.90'
C=502.43'
E=16.74'
M=16.59'
PC STA=440+51.90
PT STA=445+55.80



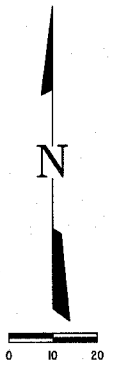
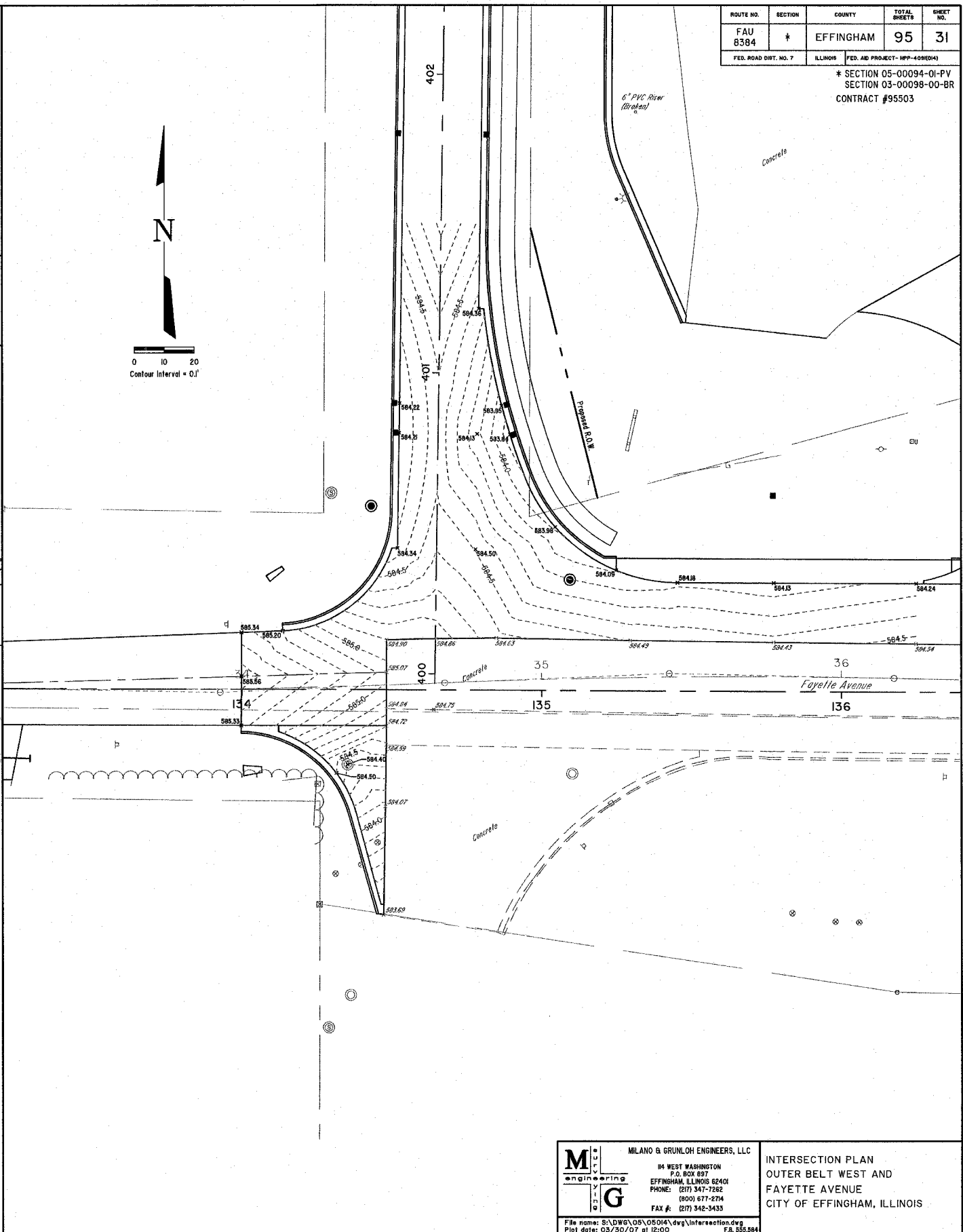
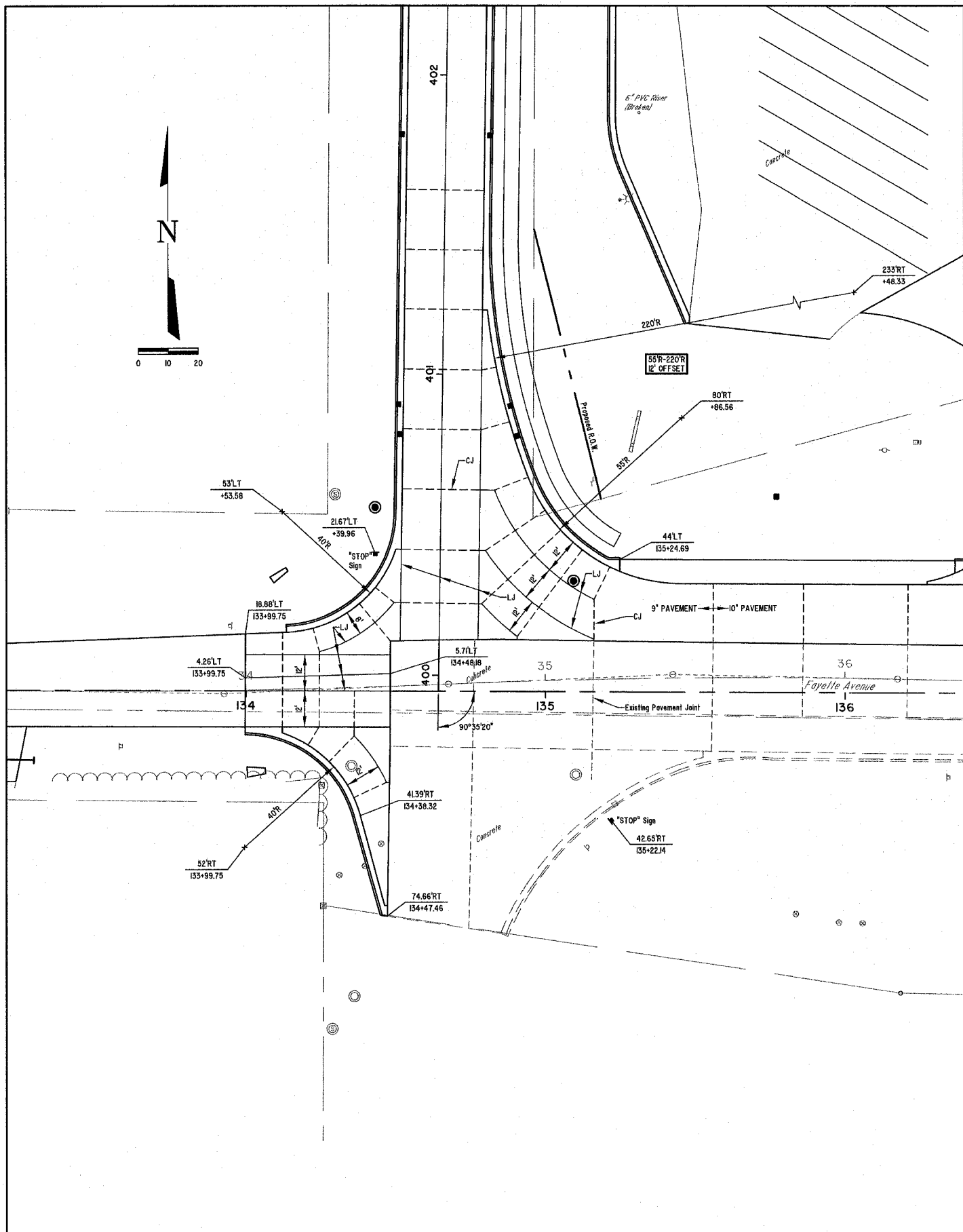
MILANO & GRUNLOH ENGINEERS, LLC
114 WEST WASHINGTON
P.O. BOX 997
EFFINGHAM, ILLINOIS 62401
PHONE: (217) 347-7282
(800) 877-2714
FAX #: (217) 342-3433

File name: S:\DWG\05\05014.dwg\ROW Plan.dwg
Plot date: 03/30/07 at 12:00

RIGHT OF WAY PLAN
OUTER BELT WEST
STA 424+50 TO STA 447+00
CITY OF EFFINGHAM, ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6394	#	EFFINGHAM	95	31
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - MP-4080041		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



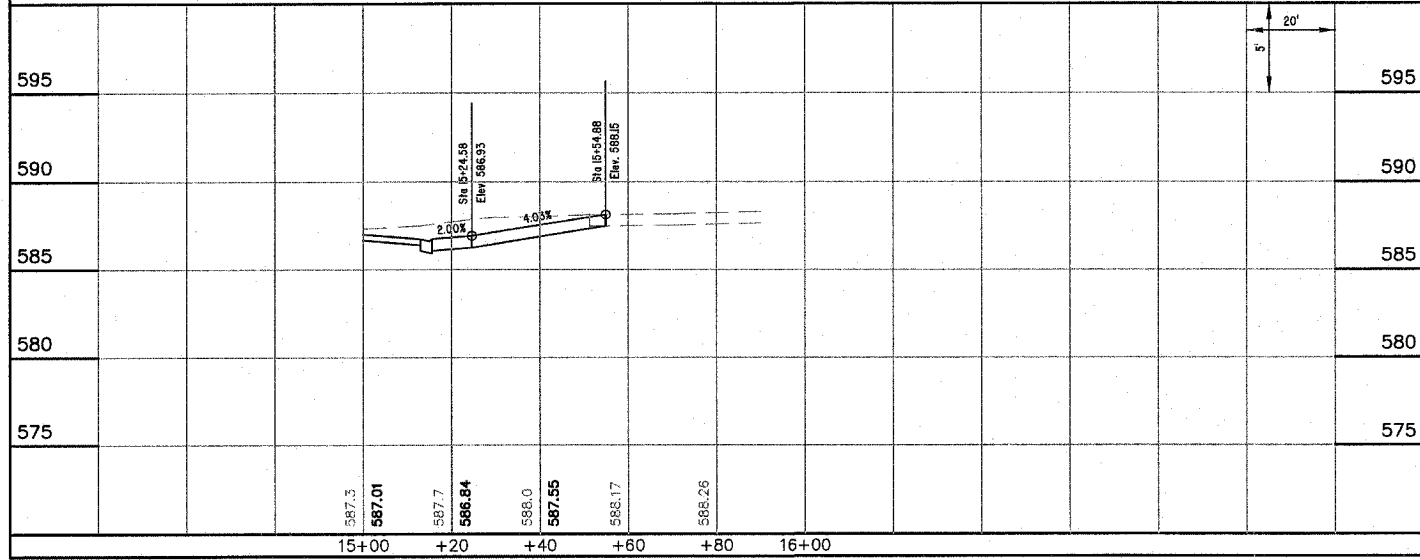
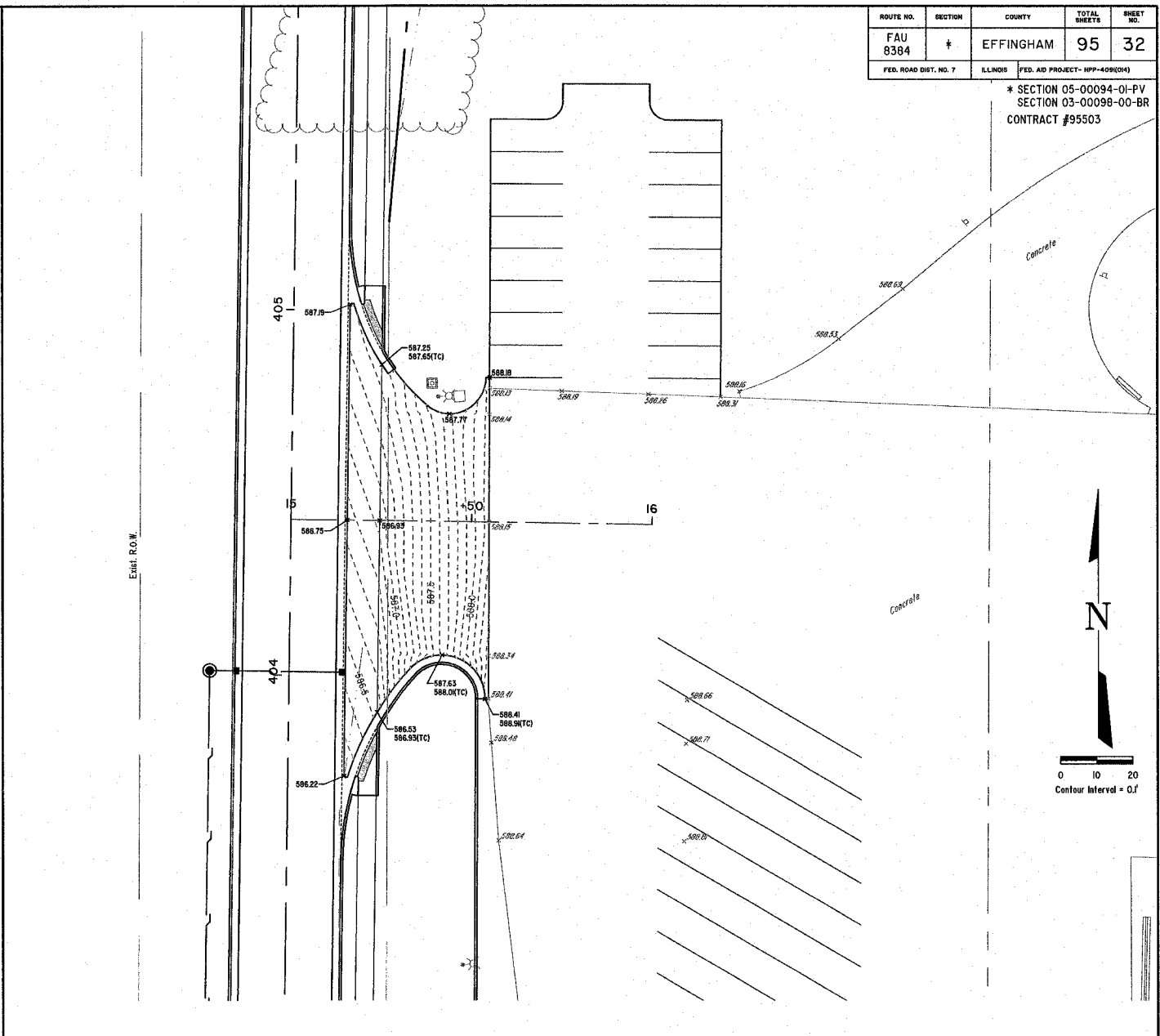
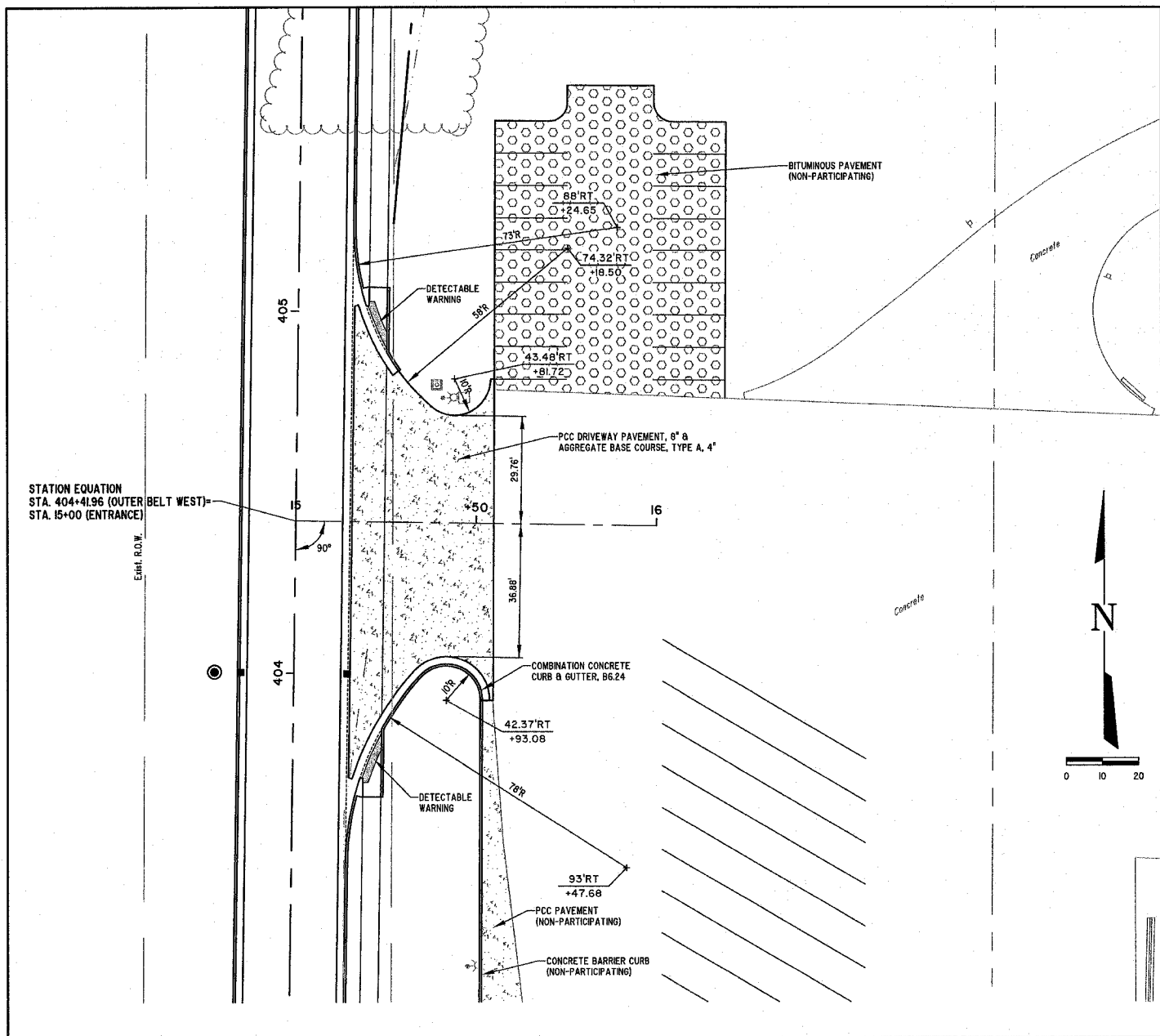
MILANO & GRUNLOH ENGINEERS, LLC
 84 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 PHONE: (217) 347-7262
 (800) 677-2774
 FAX #: (217) 342-3433

INTERSECTION PLAN
 OUTER BELT WEST AND
 FAYETTE AVENUE
 CITY OF EFFINGHAM, ILLINOIS

File name: S:\DWG\05\05014\dwg\Intersection.dwg
 Plot date: 03/30/07 at 12:00
 FA: 555,584

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8394	#	EFFINGHAM	95	32
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- HPP-409(04)		

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



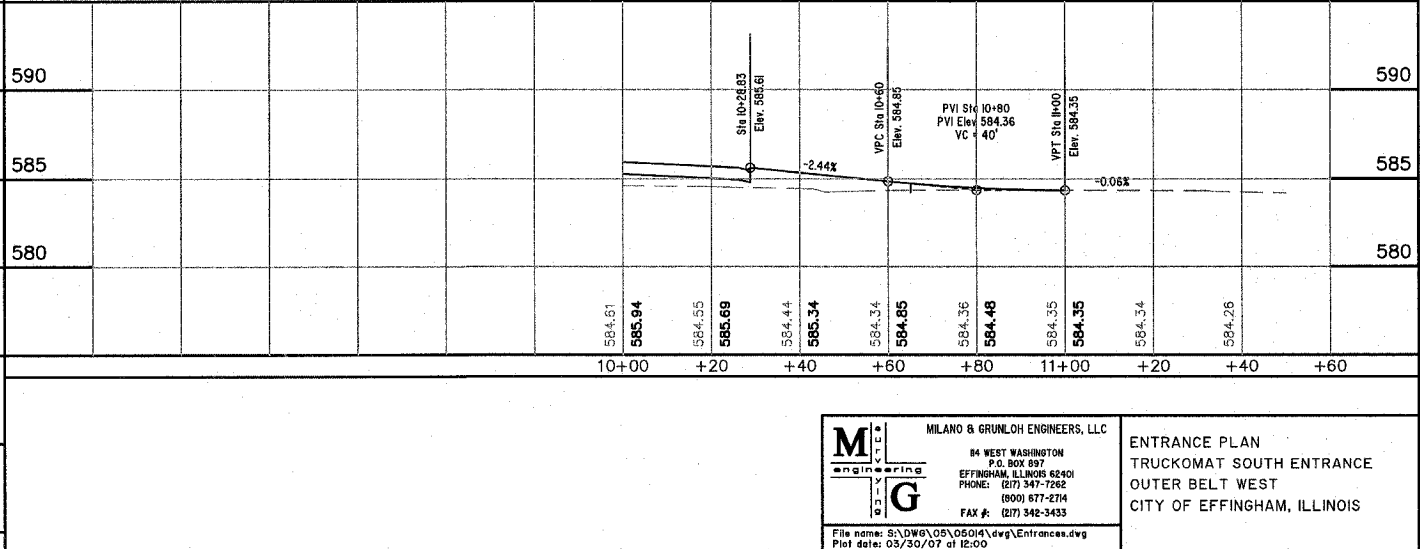
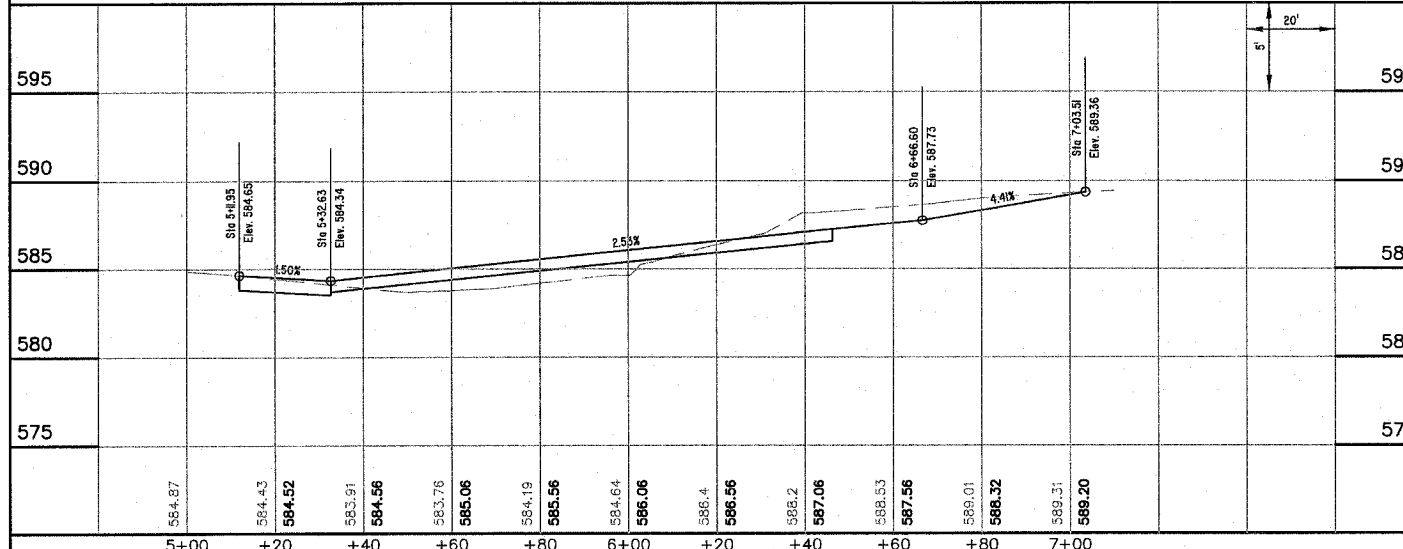
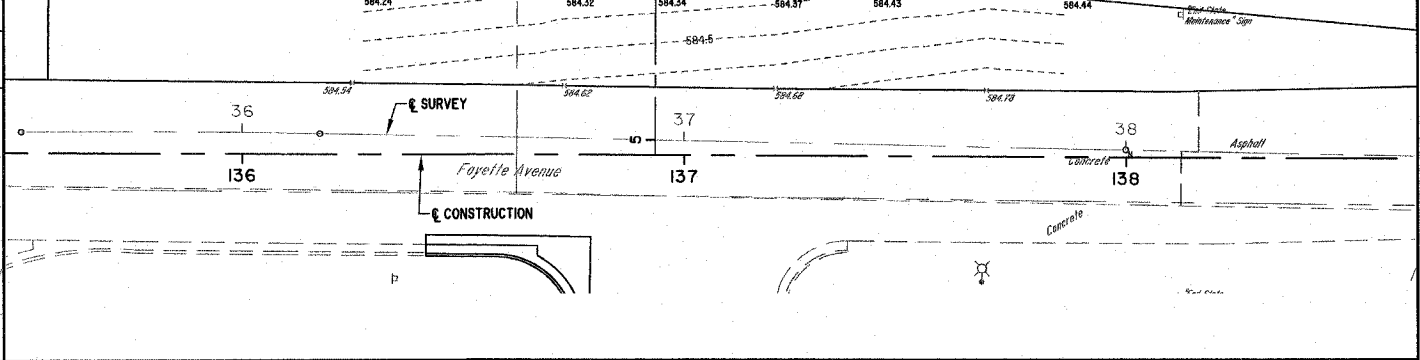
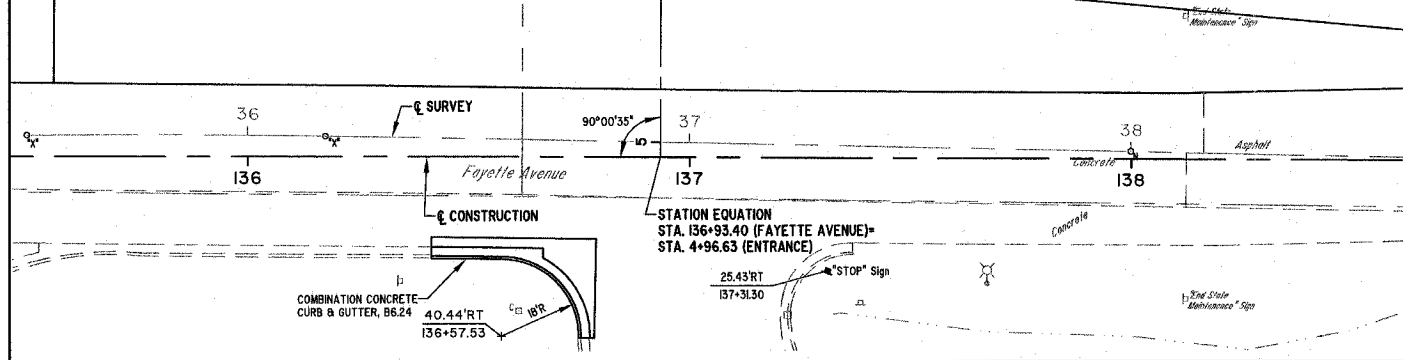
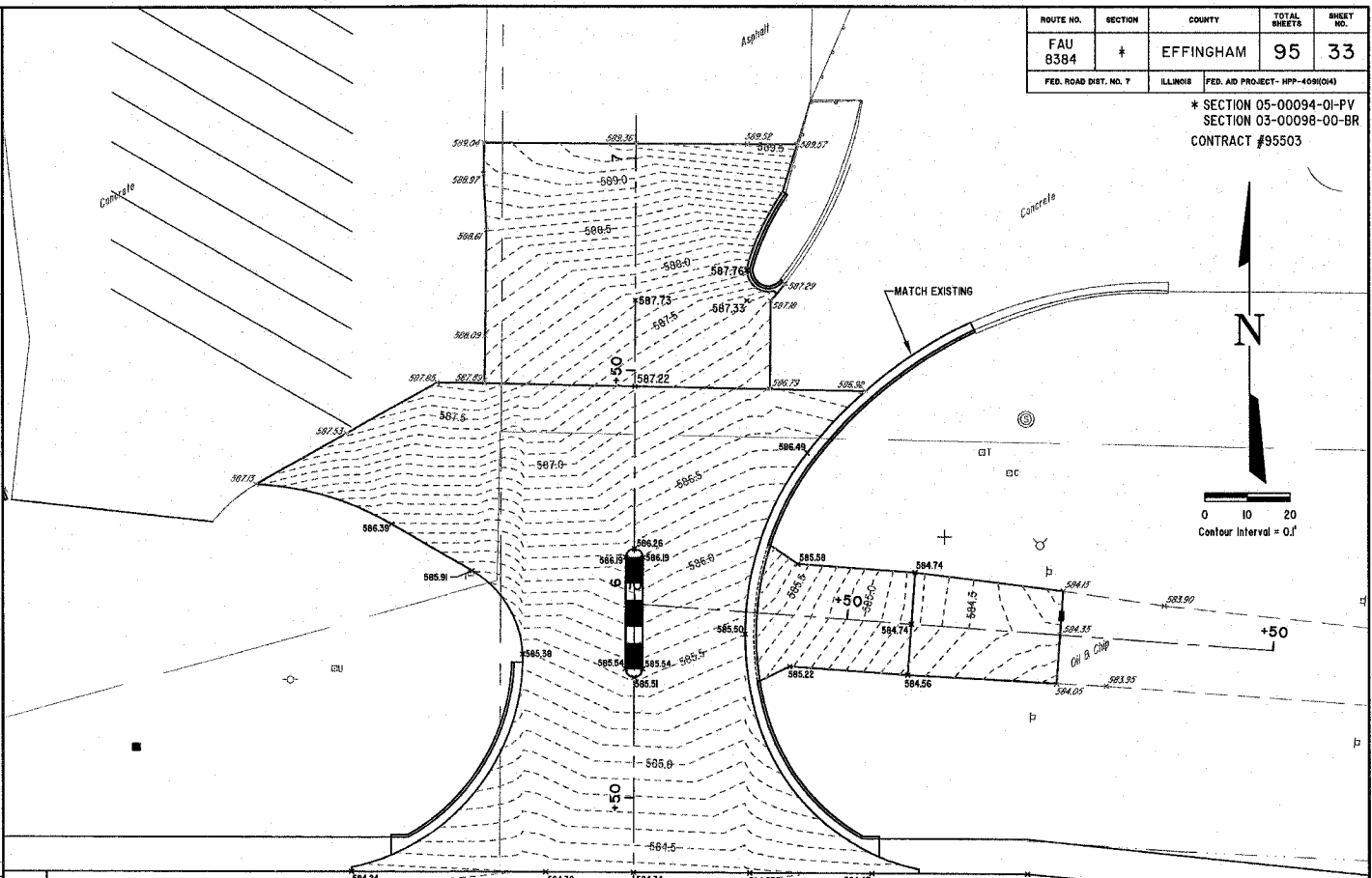
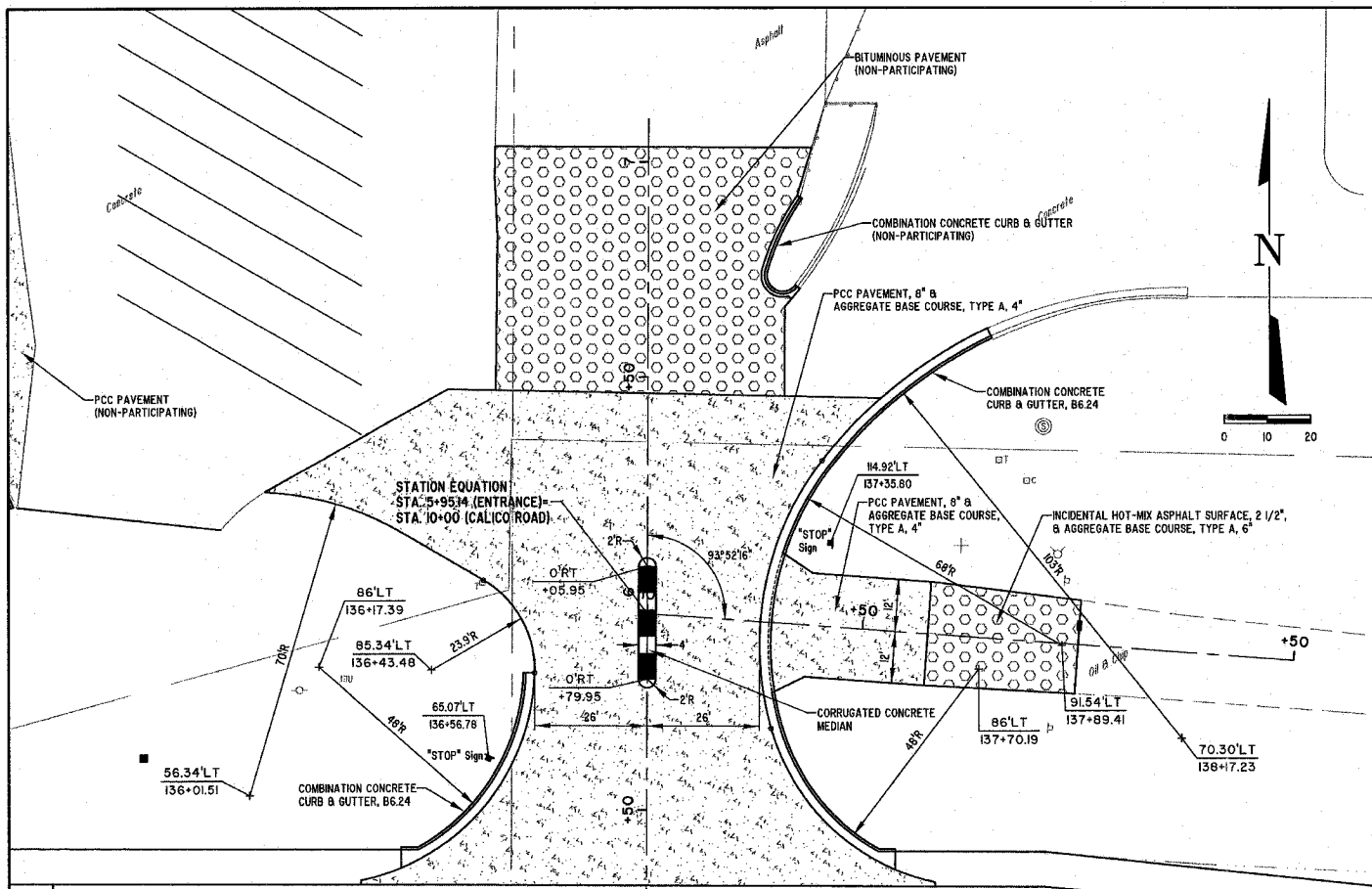
MILANO & GRUNLOH ENGINEERS, LLC
 84 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 PHONE: (217) 347-1282
 (800) 677-2734
 FAX #: (217) 342-3433

ENTRANCE PLAN
TRUCKOMAT WEST ENTRANCE
OUTER BELT WEST
CITY OF EFFINGHAM, ILLINOIS

File name: S:\DWG\05\05014\dwg\Entrances.dwg
 Plot date: 03/30/07 at 12:00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6384	#	EFFINGHAM	95	33
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT - MPP-408(04)	

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



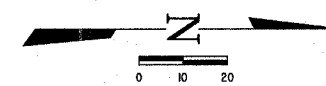
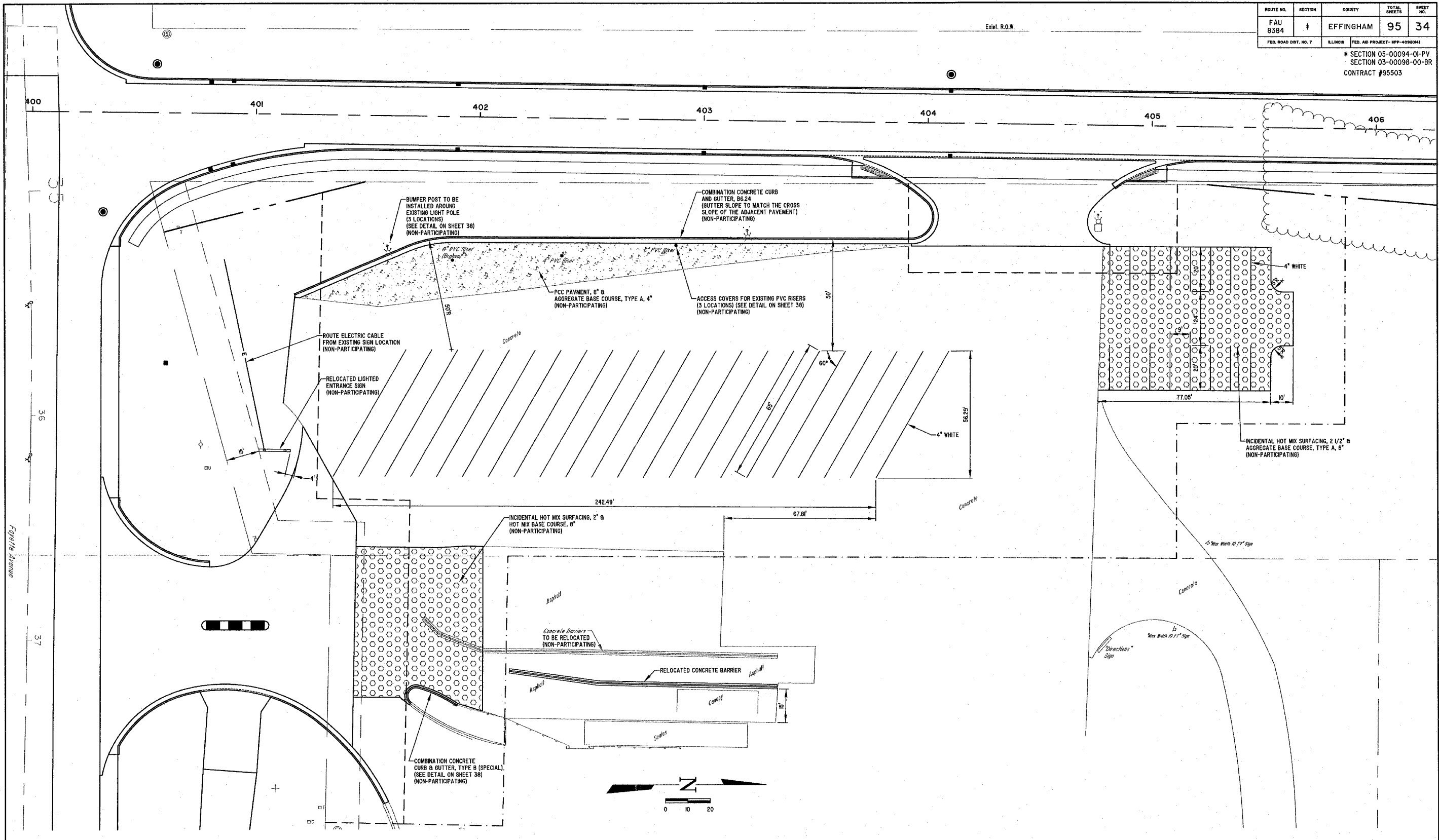
MILANO & GRUNLOH ENGINEERS, LLC
 84 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 PHONE: (217) 347-7282
 (800) 677-2714
 FAX #: (217) 342-3433

ENTRANCE PLAN
TRUCKOMAT SOUTH ENTRANCE
OUTER BELT WEST
CITY OF EFFINGHAM, ILLINOIS

File name: S:\DWG\05\05014\dwg\Entrances.dwg
Plot date: 03/30/07 at 12:00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	34
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - HPP-409(04)		

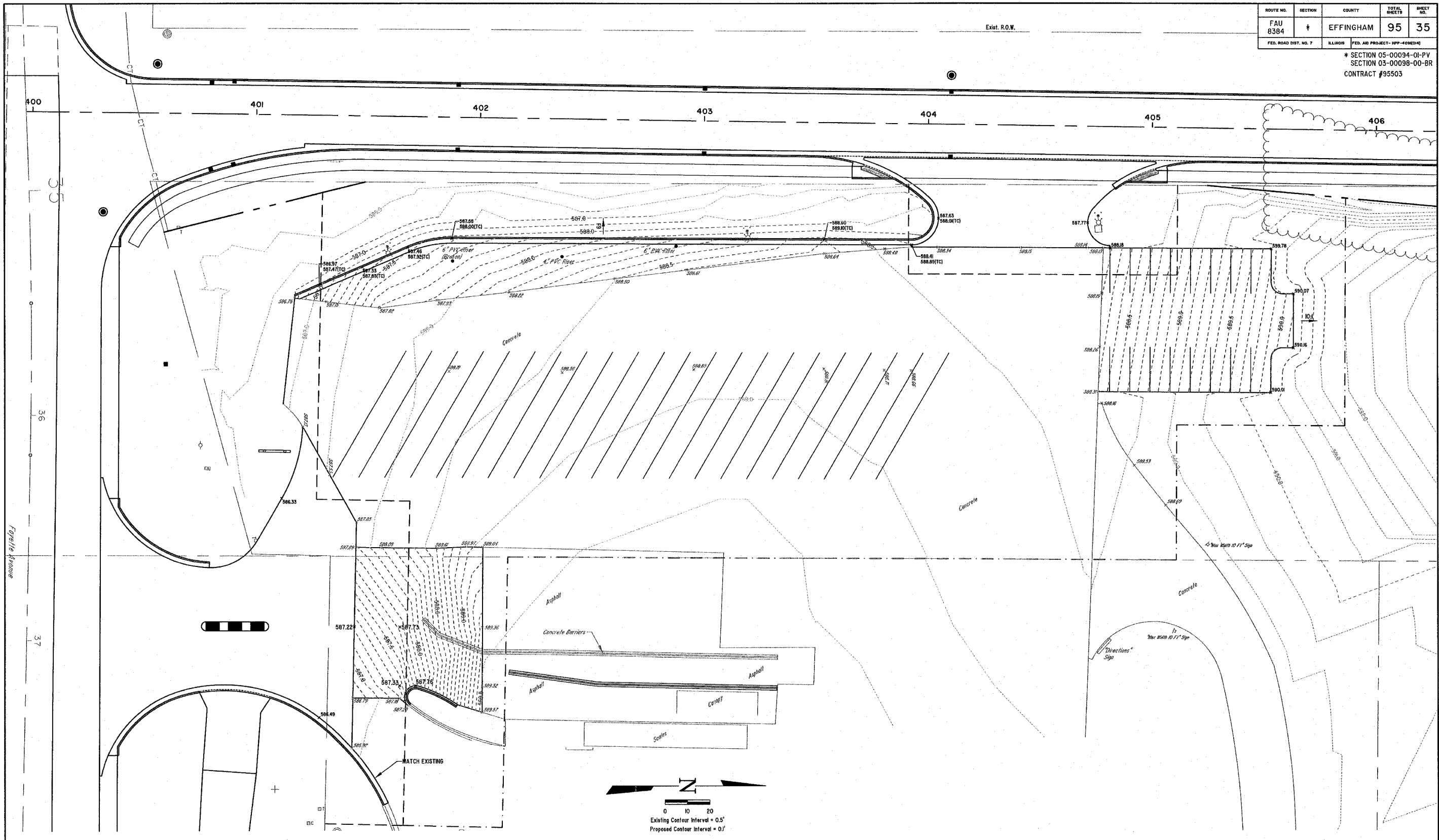
* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



	MILANO & GRUNLOH ENGINEERS, LLC	SITE PAVING PLAN TRUCKOMAT OUTER BELT WEST EFFINGHAM, ILLINOIS
	14 WEST WASHINGTON P.O. BOX 897 EFFINGHAM, ILLINOIS 62401	
	PHONE: (217) 347-7282 (800) 677-2714 FAX #: (217) 342-3433	
	File name: S:\DWG\05\05014.dwg, TM Site.dwg Plot date: 03/30/07 at 12:00 FB: 555,664,603	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - HPP-4090(4)		

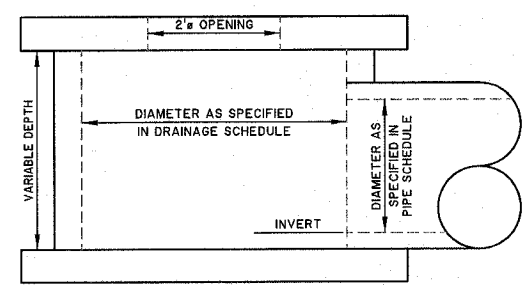
* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



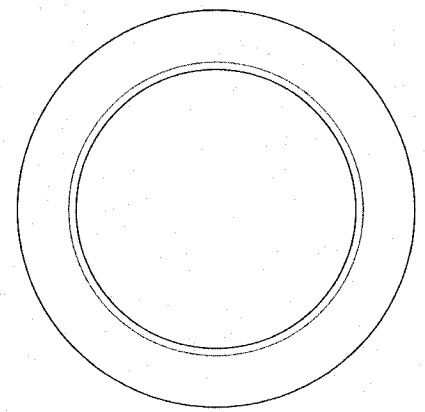
	MILANO & GRUNLOH ENGINEERS, LLC	SITE GRADING PLAN TRUCKOMAT OUTER BELT WEST EFFINGHAM, ILLINOIS
	84 WEST WASHINGTON P.O. BOX 897 EFFINGHAM, ILLINOIS 62401	
	PHONE: (217) 347-7282 (800) 677-2774	
	FAX #: (217) 342-3433	
File name: S:\DWG\05\05014\dwg\TM Site.dwg Plot date: 03/30/07 of 12:00		F.B. 555,584,603

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6384	*	EFFINGHAM	95	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - 19P-409(04)		

* SECTION 05-0094-01-PV
SECTION 03-0098-00-BR
CONTRACT #95503

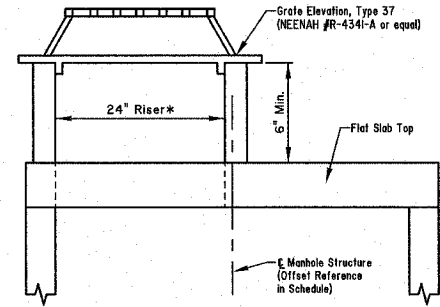
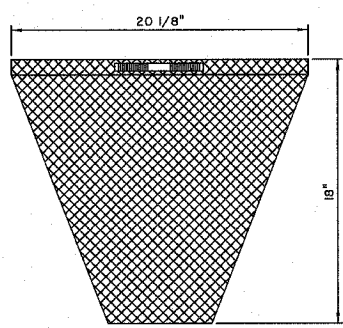


DETAIL OF RESTRICTED DEPTH MANHOLE



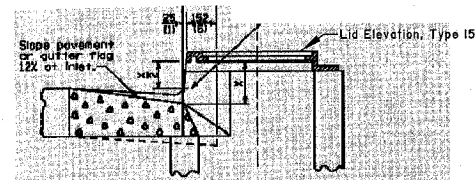
INLET PROTECTION FILTER

GENERAL NOTES:
FRAME: Top flange fabricated from 1/2" flat stock. Base rim fabricated from 1 1/2" x 1/2" x 1/8" channel. All domestic steel conforming to ASTM-A36.
SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel strap and lock.

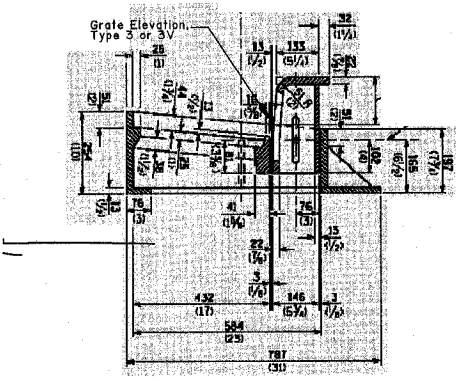


* Included in the price of the Manhole structure

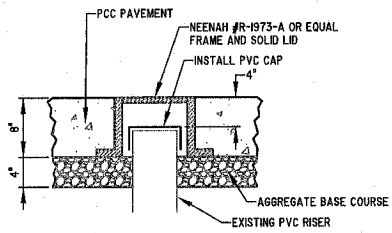
TYPE 37 GRATE



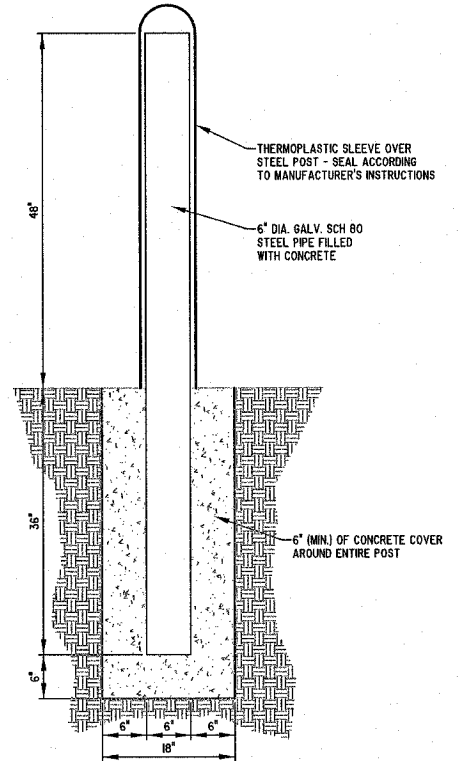
TYPE 15 FRAME & LID



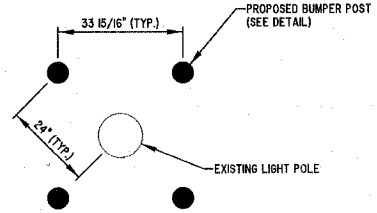
TYPE 3 or 3V GRATE



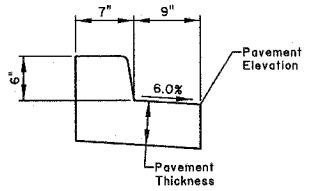
ACCESS COVER DETAIL



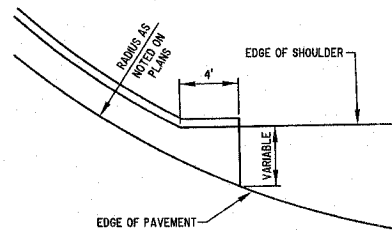
BUMPER POST DETAIL



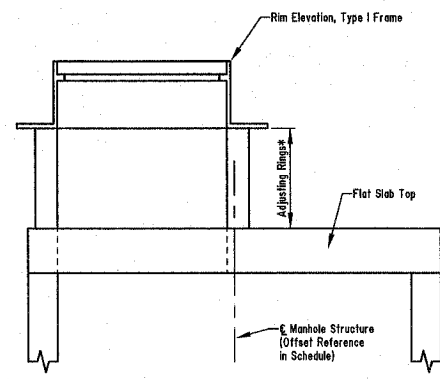
BUMPER POST LAYOUT



COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)
SCALE: 1"=1'



CONCRETE CURB AND GUTTER TRANSITION DETAIL



* Included in the price of the Manhole structure

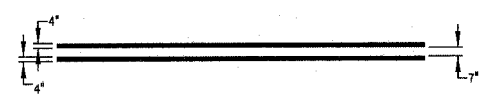
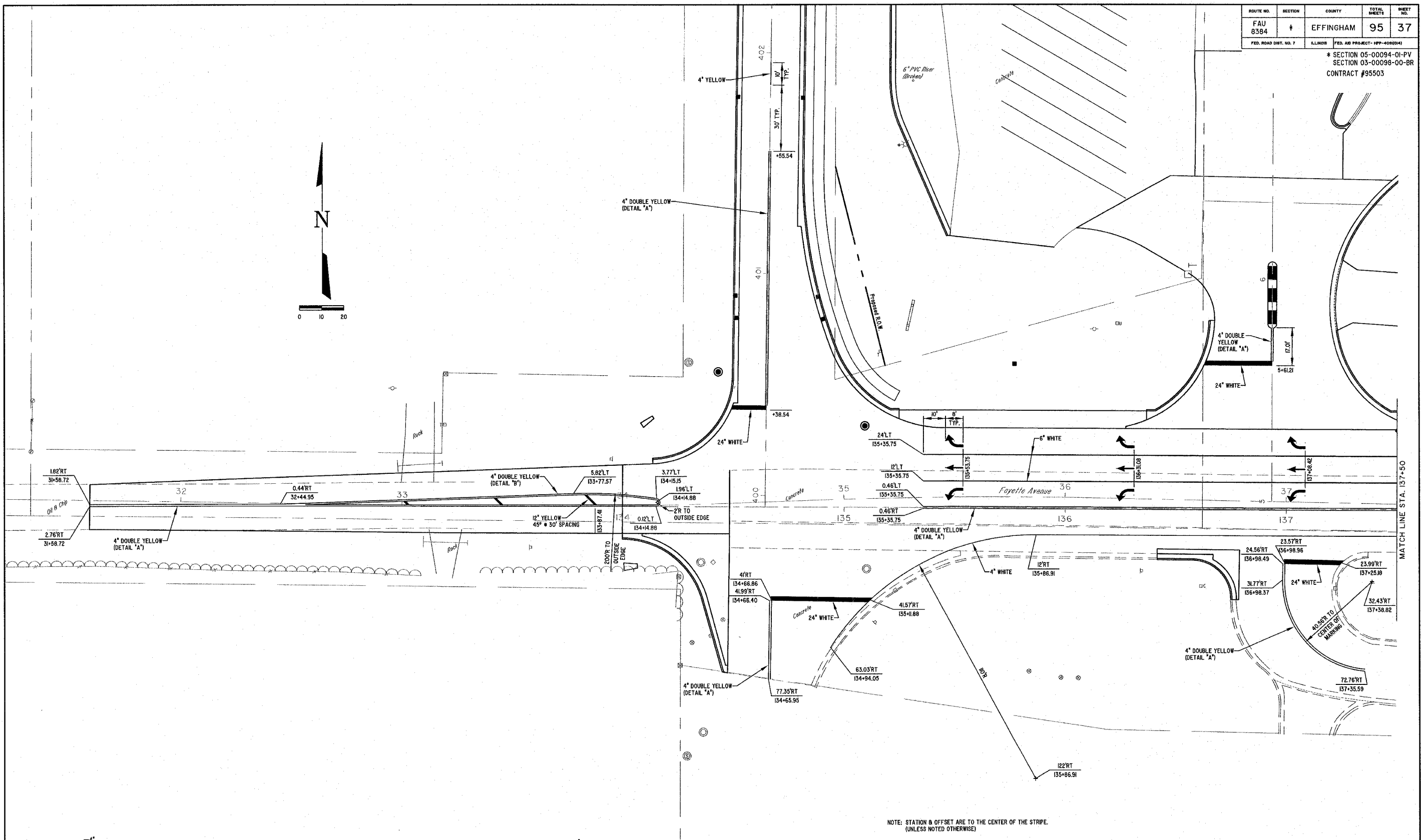
TYPE 1 FRAME & LID

MILANO & GRUNLOH ENGINEERS, LLC
14 WEST WASHINGTON
P.O. BOX 897
EFFINGHAM, ILLINOIS 62401
PHONE: (217) 347-7282
(800) 677-2714
FAX #: (217) 342-3433
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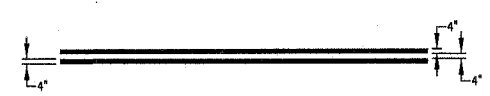
MISCELLANEOUS DETAILS
OUTER BELT WEST
CITY OF EFFINGHAM, ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	37
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT - HPP-408(04)	

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



DETAIL "A"
DOUBLE LINE PAVEMENT MARKING



DETAIL "B"
DOUBLE LINE PAVEMENT MARKING

NOTE: STATION & OFFSET ARE TO THE CENTER OF THE STRIPE.
(UNLESS NOTED OTHERWISE)

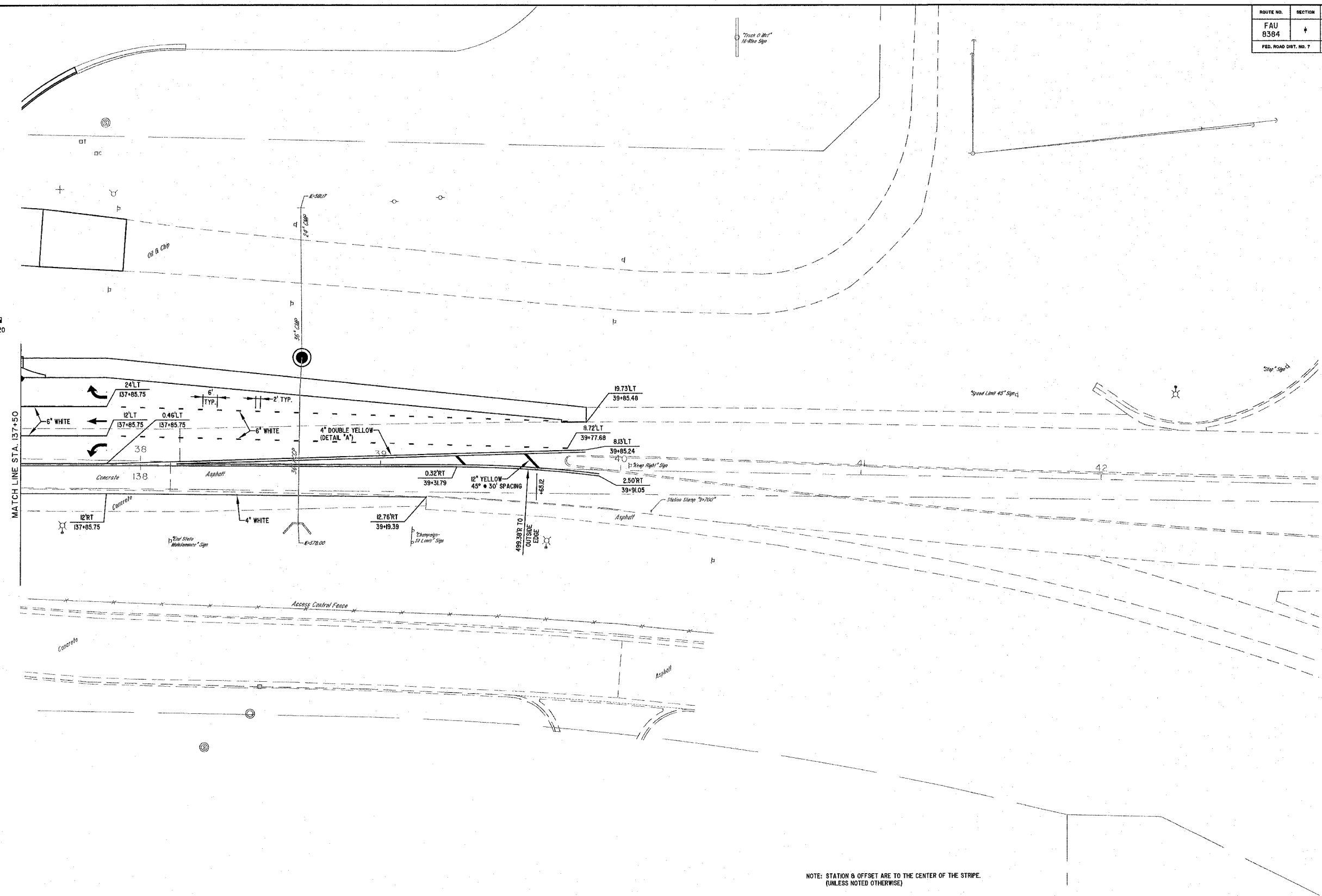
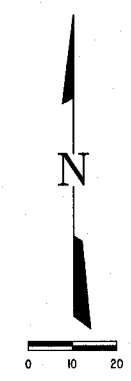
MILANO & GRUNLOH ENGINEERS, LLC
 84 WEST WASHINGTON
 P.O. BOX 857
 EFFINGHAM, ILLINOIS 62401
 PHONE: (217) 347-7262
 (800) 577-2774
 FAX #: (217) 346-3433

PAVEMENT MARKING PLAN
 OUTER BELT WEST AND
 FAYETTE AVENUE
 EFFINGHAM, ILLINOIS

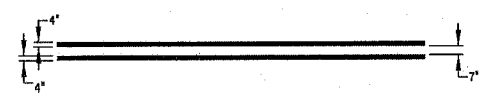
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 Plot date: 09/30/07 of 12:00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	#	EFFINGHAM	95	38
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- HPP-409(04)		

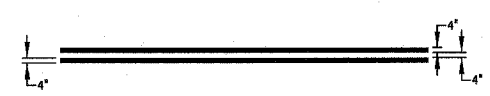
* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503



NOTE: STATION & OFFSET ARE TO THE CENTER OF THE STRIPE.
(UNLESS NOTED OTHERWISE)



DETAIL "A"
DOUBLE LINE PAVEMENT MARKING



DETAIL "B"
DOUBLE LINE PAVEMENT MARKING

MILANO & GRUNLOH ENGINEERS, LLC
 84 WEST WASHINGTON
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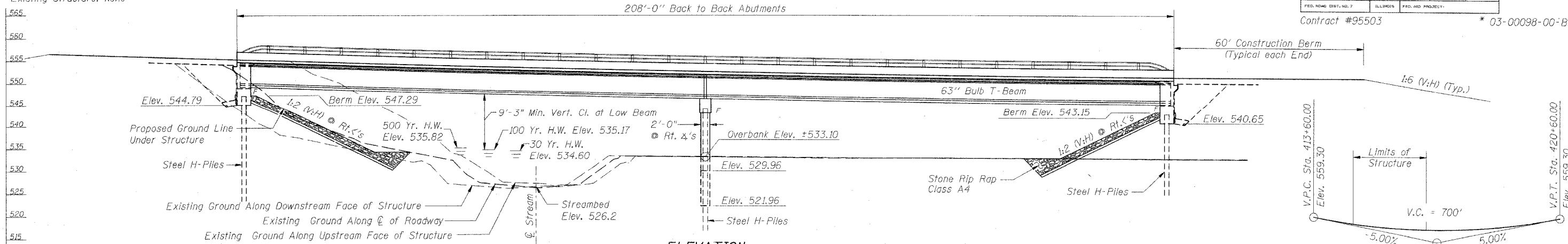
PAVEMENT MARKING PLAN
FAYETTE AVENUE
EFFINGHAM, ILLINOIS

File name: S:\DWG\05\05014\dwg\FavMk.dwg
Plot date: 03/30/07 at 12:00

Bench Mark: #5 - Railroad spike in tree at 127' Rt. Sta. 416+52, Elev. 536.44
 #6 - Chiseled square in northwest existing concrete bridge support, Elev. 539.07

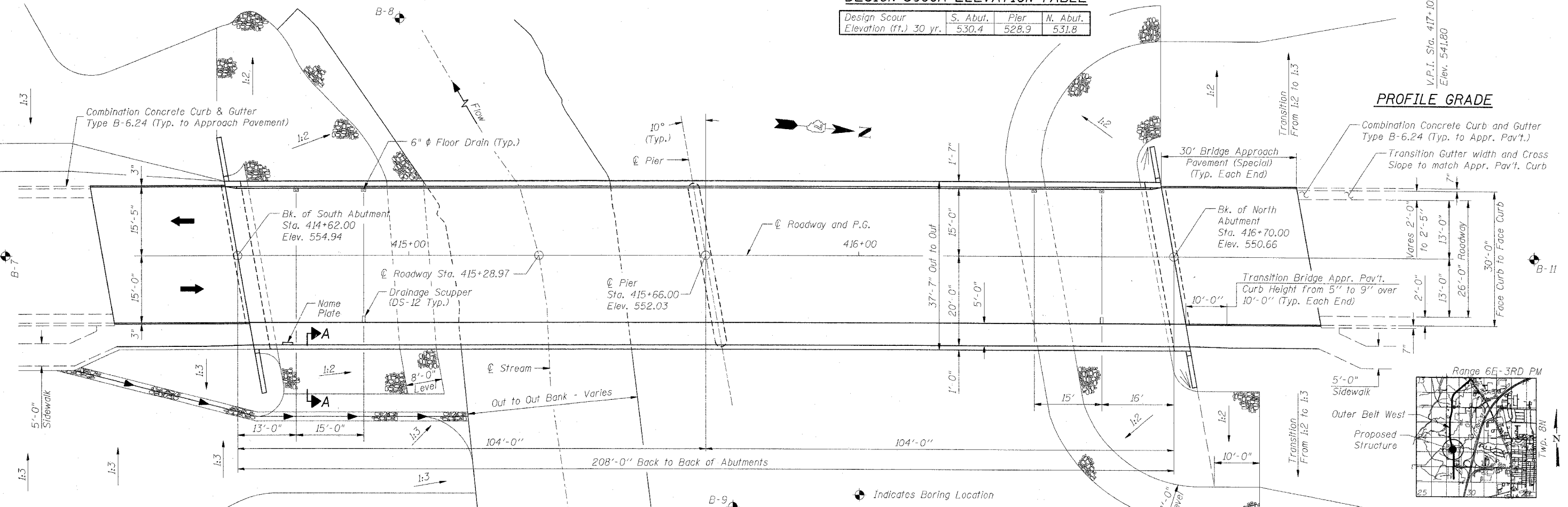
Existing Structure: None

ROUTE NO.	SECTION	COUNTY	DISTRICT	SHEET	SHEET NO. 01 23 SHEETS
		EFFINGHAM	95	39	
Contract #95503					* 03-00098-00-BR

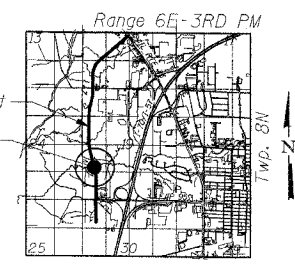


DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.) 30 yr.	S. Abut.	Pier	N. Abut.
30 yr.	530.4	528.9	531.8



PROFILE GRADE



DESIGN STRESSES

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

PRECAST PRESTRESSED UNITS
 $f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f'_s = 270,000$ psi (1/2" ϕ Low Lax Strands)
 $f_{sl} = 201,960$ psi (1/2" ϕ Low Lax Strands)

LOADING HS20-44

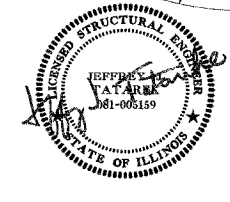
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

AASHTO 2002

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

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT 'AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.'"



SIGNATURE
 3/29/07
 DATE
 LIC. EXP. DATE: 4/30/07

GENERAL PLAN AND ELEVATION
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009



JOB NO.
 05S2071
 DATE
 03/29/07

03/29/07 08:07 AM
 03/29/07 08:07 AM
 03/29/07 08:07 AM
 03/29/07 08:07 AM
 03/29/07 08:07 AM

WATERWAY INFORMATION

Drainage Area = 2.22 Sq. Mi. Low Grade Elev. 550.66 @ Sta. 416+70.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	2195	N/A	460	534.60	N/A	0.29	534.60	534.89
Base	100	2999	N/A	560	535.17	N/A	0.32	535.17	535.49
Overtopping									
Max. Calc.	500	4113	N/A	640	535.82	N/A	0.40	535.82	536.22

INDEX OF SHEETS

1.	General Plan and Elevation
2.	General Notes
3.	Top of Slab Elevations (Sheet 1)
4.	Top of Slab Elevations (Sheet 2)
5.	Top of South Approach Elevations (Sheet 1)
6.	Top of North Approach Elevations (Sheet 2)
7.	Superstructure
8.	Superstructure Details (Sheet 1)
9.	Superstructure Details (Sheet 2)
10.	Type L Aluminum Railing
11.	Drainage Scupper, DS-12
12.	Diaphragm Details
13.	Framing Plan
14.	63" PPC Bulb T-Beam
15.	63" PPC Bulb T-Beam Details
16.	South Abutment
17.	North Abutment
18.	Pier
19.	Steel H-Piles
20.	Bar Splicer Assembly Details
21.	Borings (Sheet 1)
22.	Borings (Sheet 2)
23.	Borings (Sheet 3)

TRIBUTARY TO LITTLE WABASH RIVER
 BUILT BY
 EFFINGHAM COUNTY
 SECTION 03-00098-00-BR
 LOCAL ROAD - STA. 415+66
 STRUCTURE NO. 025-6009 - LOADING HS20

NAME PLATE

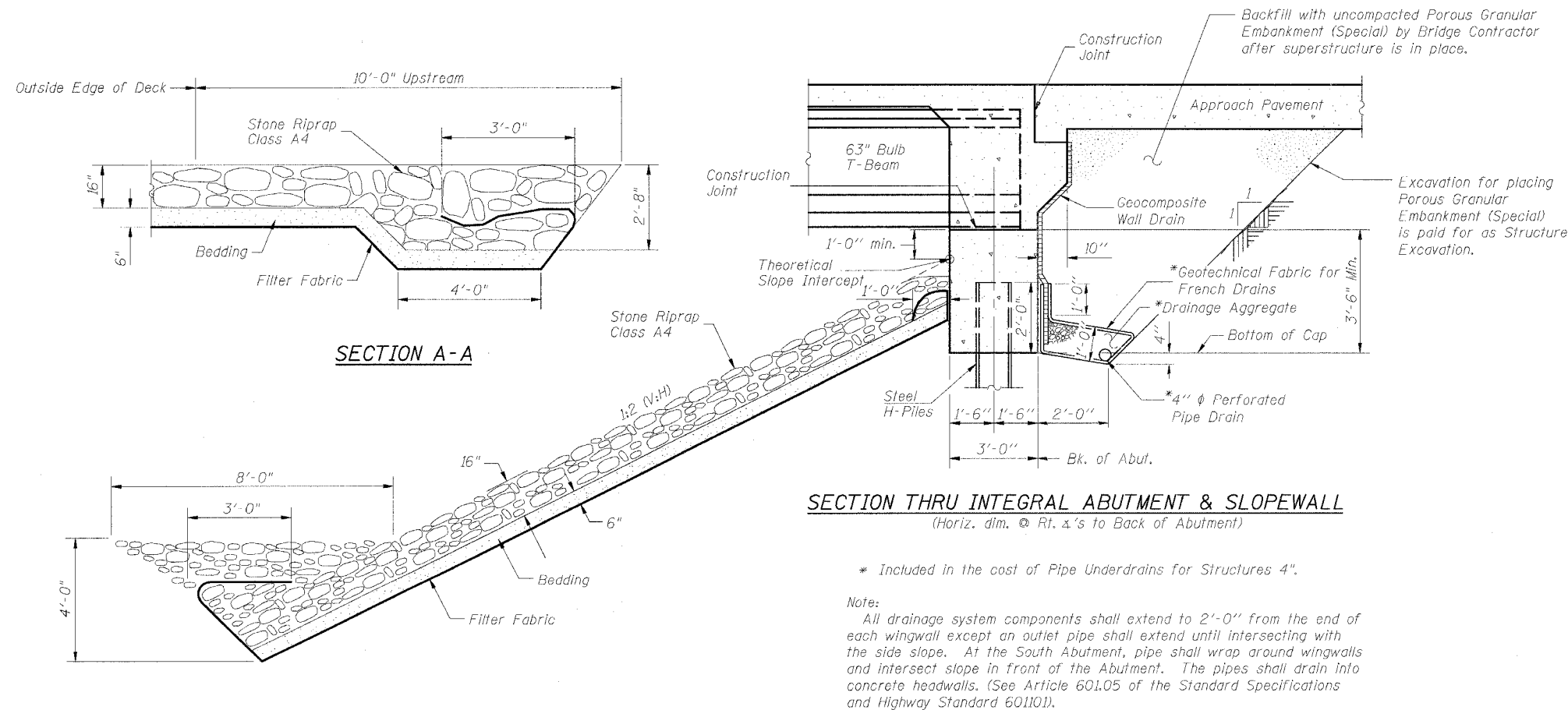
See Std. 515001

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 embankment configuration shown shall be the minimum that must be placed, compacted and allowed to settle for 30 days prior to construction of the abutments.
- The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
- In lieu of the hammer selection criteria and use of the FHWA Modified Gates formula specified in Section 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a nominal required bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.
- 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).

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	-	195	195
Stone Riprap, Class A4	Sq. Yd.	-	782	782
Filter Fabric	Sq. Yd.	-	782	782
Structure Excavation	Cu. Yd.	-	369	369
Floor Drains	Each	4	-	4
Concrete Structures	Cu. Yd.	-	89.9	89.9
Concrete Superstructure	Cu. Yd.	336.5	-	336.5
Bridge Deck Grooving	Sq. Yd.	647	-	647
Concrete Encasement	Cu. Yd.	-	12.6	12.6
Protective Coat	Sq. Yd.	971	-	971
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams 63"	Foot	1030	-	1030
Reinforcement Bars, Epoxy Coated	Pounds	62540	11490	74030
Bar Splicers	Each	62	-	62
Aluminum Railing, Type L	Foot	206	-	206
Furnishing Steel Piles, HP12x74	Foot	-	590	590
Furnishing Steel Piles, HP12x84	Foot	-	544	544
Driving Piles	Foot	-	1134	1134
Test Pile Steel, HP 12x74	Each	-	2	2
Test Pile Steel, HP 12x84	Each	-	1	1
Name Plates	Each	1	-	1
Geocomposite Wall Drains	Sq. Yd.	-	104	104
Pipe Underdrains for Structures 4"	Foot	-	166	166
Drainage Scupper, DS-12	Each	2	-	2



* Included in the cost of Pipe Underdrains for Structures 4".

Note:
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slope. At the South Abutment, pipe shall wrap around wingwalls and intersect slope in front of the Abutment. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

GENERAL NOTES
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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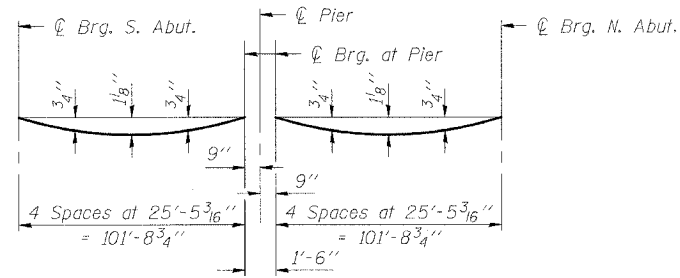
JOB NO.

05S2071

DATE

03/29/07

03/29/07, INF, AM
 05/05/05, 07/17/05, 07/15/07
 LAYOUT: MMW 12/20/07
 DRAWN: DAP 01/12/07
 REVIEWED: JUT 07/15/07

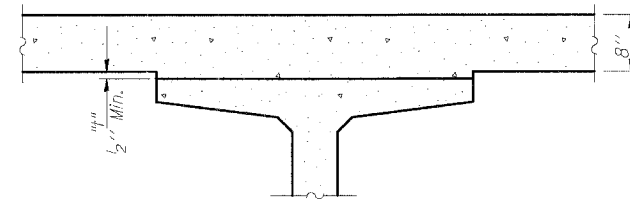


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only, excluding beams.)

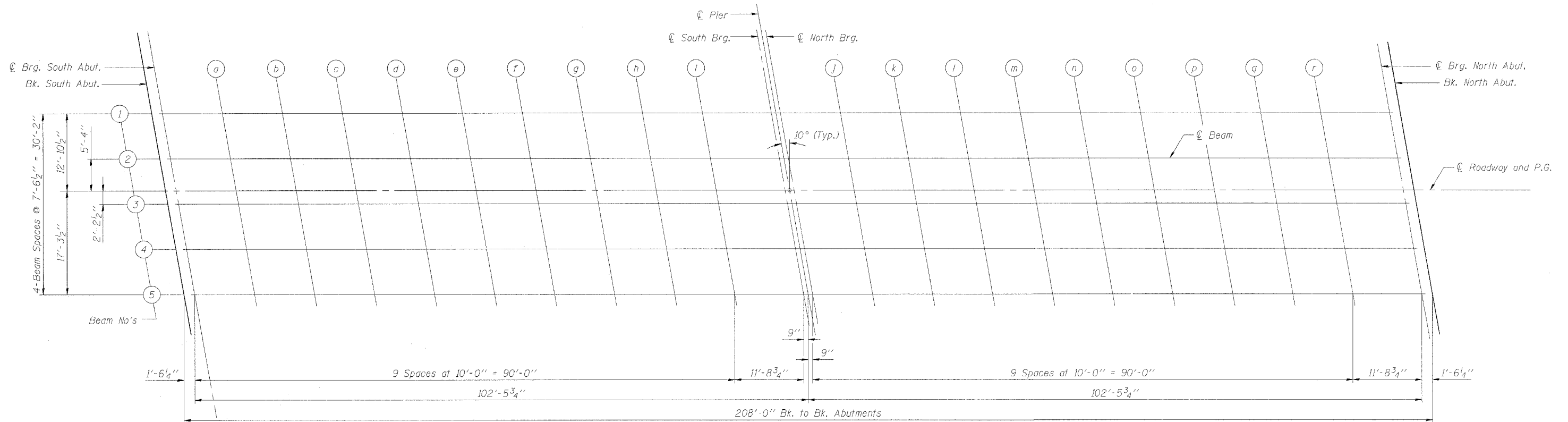
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted or dead load deflections as shown on sheet 4 of 23.



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

FILLET HEIGHTS



DIAGRAMMATIC PLAN



TOP OF SLAB ELEVATIONS (SHEET 1)
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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JOB NO.

05S2071

DATE

03/29/07

03/29/07 10:27 AM
 R:\05\06\05\07\04\00\Struct\Media\FinalPlan.dgn

LAYOUT	MM	12/20/07
DRAWN	DAP	10/12/07
REVIEWED	JJT	10/15/07

**☉ ROADWAY AND
PROFILE GRADE LINE**

BEAM #1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	414+59.73	-12.88'	554.77	554.77
☉ S. Abut.	414+61.25	-12.88'	554.71	554.71
a	414+71.25	-12.88'	554.36	554.39
b	414+81.25	-12.88'	554.03	554.08
c	414+91.25	-12.88'	553.71	553.78
d	415+01.25	-12.88'	553.41	553.48
e	415+11.25	-12.88'	553.11	553.20
f	415+21.25	-12.88'	552.84	552.92
g	415+31.25	-12.88'	552.58	552.64
h	415+41.25	-12.88'	552.33	552.38
i	415+51.25	-12.88'	552.09	552.12
☉ S. Brg. at Pier	415+62.97	-12.88'	551.84	551.84
☉ Pier	415+63.73	-12.88'	551.82	551.82
☉ N. Brg. at Pier	415+64.49	-12.88'	551.81	551.81
j	415+74.49	-12.88'	551.60	551.63
k	415+84.49	-12.88'	551.42	551.47
l	415+94.49	-12.88'	551.25	551.31
m	416+04.49	-12.88'	551.09	551.17
n	416+14.49	-12.88'	550.94	551.03
o	416+24.49	-12.88'	550.82	550.90
p	416+34.49	-12.88'	550.70	550.77
q	416+44.49	-12.88'	550.60	550.65
r	416+54.49	-12.88'	550.51	550.54
☉ N. Abut.	416+66.21	-12.88'	550.43	550.43
Bk. N. Abut.	416+67.73	-12.88'	550.42	550.42

BEAM #2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	414+61.05	-5.33'	554.87	554.87
☉ S. Abut.	414+62.57	-5.33'	554.82	554.82
a	414+72.57	-5.33'	554.47	554.50
b	414+82.57	-5.33'	554.14	554.19
c	414+92.57	-5.33'	553.82	553.89
d	415+02.57	-5.33'	553.52	553.60
e	415+12.57	-5.33'	553.23	553.32
f	415+22.57	-5.33'	552.95	553.03
g	415+32.57	-5.33'	552.69	552.76
h	415+42.57	-5.33'	552.45	552.50
i	415+52.57	-5.33'	552.21	552.24
☉ S. Brg. at Pier	415+64.29	-5.33'	551.96	551.96
☉ Pier	415+65.05	-5.33'	551.94	551.94
☉ N. Brg. at Pier	415+65.82	-5.33'	551.93	551.93
j	415+75.82	-5.33'	551.73	551.75
k	415+85.82	-5.33'	551.55	551.56
l	415+95.82	-5.33'	551.38	551.44
m	416+05.82	-5.33'	551.22	551.30
n	416+15.82	-5.33'	551.08	551.17
o	416+25.82	-5.33'	550.95	551.03
p	416+35.82	-5.33'	550.84	550.91
q	416+45.82	-5.33'	550.74	550.79
r	416+55.82	-5.33'	550.65	550.68
☉ N. Abut.	416+67.53	-5.33'	550.57	550.57
Bk. N. Abut.	416+69.05	-5.33'	550.56	550.56

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	416+62.00	0.00'	554.94	554.94
☉ S. Abut.	414+63.52	0.00'	554.89	554.89
a	414+73.52	0.00'	554.54	554.57
b	414+83.52	0.00'	554.21	554.26
c	414+93.52	0.00'	553.90	553.97
d	415+03.52	0.00'	553.60	553.67
e	415+13.52	0.00'	553.31	553.40
f	415+23.52	0.00'	553.03	553.11
g	415+33.52	0.00'	552.78	552.84
h	415+43.52	0.00'	552.53	552.58
i	415+53.52	0.00'	552.30	552.33
☉ S. Brg. at Pier	415+65.23	0.00'	552.05	552.05
☉ Pier	415+66.00	0.00'	552.03	552.03
☉ N. Brg. at Pier	415+66.76	0.00'	552.02	552.02
j	415+76.76	0.00'	551.82	551.84
k	415+86.76	0.00'	551.64	551.69
l	415+96.76	0.00'	551.47	551.53
m	416+06.76	0.00'	551.31	551.39
n	416+16.76	0.00'	551.17	551.26
o	416+26.76	0.00'	551.05	551.13
p	416+36.76	0.00'	550.93	551.00
q	416+46.76	0.00'	550.84	550.89
r	416+56.76	0.00'	550.75	550.78
☉ N. Abut.	416+68.48	0.00'	550.67	550.67
Bk. N. Abut.	416+70.00	0.00'	550.66	550.66

BEAM #3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	414+62.39	2.21'	554.89	554.89
☉ S. Abut.	414+63.91	2.21'	554.83	554.83
a	414+73.91	2.21'	554.49	554.51
b	414+83.91	2.21'	554.16	554.21
c	414+93.91	2.21'	553.84	553.91
d	415+03.91	2.21'	553.54	553.62
e	415+13.91	2.21'	553.25	553.34
f	415+23.91	2.21'	552.98	553.06
g	415+33.91	2.21'	552.72	552.79
h	415+43.91	2.21'	552.48	552.53
i	415+53.91	2.21'	552.25	552.28
☉ S. Brg. at Pier	415+65.63	2.21'	552.00	552.00
☉ Pier	415+66.39	2.21'	551.98	551.98
☉ N. Brg. at Pier	415+67.15	2.21'	551.96	551.96
j	415+77.15	2.21'	551.77	551.79
k	415+87.15	2.21'	551.58	551.63
l	415+97.15	2.21'	551.42	551.48
m	416+07.15	2.21'	551.26	551.34
n	416+17.15	2.21'	551.12	551.21
o	416+27.15	2.21'	551.00	551.08
p	416+37.15	2.21'	550.89	550.96
q	416+47.15	2.21'	550.79	550.84
r	416+57.15	2.21'	550.71	550.73
☉ N. Abut.	416+68.87	2.21'	550.63	550.63
Bk. N. Abut.	416+70.39	2.21'	550.62	550.62

BEAM #4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	414+63.72	9.75'	554.69	554.69
☉ S. Abut.	414+65.24	9.75'	554.63	554.63
a	414+75.24	9.75'	554.29	554.32
b	414+85.24	9.75'	553.96	554.01
c	414+95.24	9.75'	553.65	553.72
d	415+05.24	9.75'	553.35	553.43
e	415+15.24	9.75'	553.06	553.15
f	415+25.24	9.75'	552.79	552.87
g	415+35.24	9.75'	552.54	552.61
h	415+45.24	9.75'	552.29	552.35
i	415+55.24	9.75'	552.07	552.10
☉ S. Brg. at Pier	415+66.96	9.75'	551.82	551.82
☉ Pier	415+67.72	9.75'	551.08	551.80
☉ N. Brg. at Pier	415+68.48	9.75'	551.79	551.79
j	415+78.48	9.75'	551.59	551.62
k	415+88.48	9.75'	551.41	551.46
l	415+98.48	9.75'	551.24	551.31
m	416+08.48	9.75'	551.09	551.17
n	416+18.48	9.75'	550.95	551.04
o	416+28.48	9.75'	550.83	550.91
p	416+38.48	9.75'	550.72	550.79
q	416+48.48	9.75'	550.63	550.68
r	416+58.48	9.75'	550.55	550.57
☉ N. Abut.	416+70.20	9.75'	550.47	550.47
Bk. N. Abut.	416+71.72	9.75'	550.46	550.46

BEAM #5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	414+65.05	17.29'	554.62	554.62
☉ S. Abut.	414+66.57	17.29'	554.56	554.56
a	414+76.57	17.29'	554.22	554.25
b	414+86.57	17.29'	553.90	553.95
c	414+96.57	17.29'	553.58	553.65
d	415+06.57	17.29'	553.29	553.36
e	415+16.57	17.29'	553.00	553.09
f	415+26.57	17.29'	552.73	552.81
g	415+36.57	17.29'	552.48	552.55
h	415+46.57	17.29'	552.24	552.29
i	415+56.57	17.29'	552.01	552.04
☉ S. Brg. at Pier	415+68.29	17.29'	551.76	551.76
☉ Pier	415+69.05	17.29'	551.75	551.75
☉ N. Brg. at Pier	415+69.81	17.29'	551.73	551.73
j	415+79.81	17.29'	551.54	551.57
k	415+89.81	17.29'	551.36	551.41
l	415+99.81	17.29'	551.20	551.27
m	416+09.81	17.29'	551.05	551.13
n	416+19.81	17.29'	550.91	551.00
o	416+29.81	17.29'	550.79	550.87
p	416+39.81	17.29'	550.68	550.75
q	416+49.81	17.29'	550.59	550.64
r	416+59.81	17.29'	550.51	550.54
☉ N. Abut.	416+71.53	17.29'	550.44	550.44
Bk. N. Abut.	416+73.05	17.29'	550.43	550.43

TOP OF SLAB ELEVATIONS (SHEET 2)
OUTER BELT WEST OVER TRIBUTARY
TO LITTLE WABASH RIVER
LOCAL ROAD SEC. 03-00098-00-BR
EFFINGHAM COUNTY
STATION 415+66.00
STRUCTURE NO. 025-6009

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LAYOUT	MM	12/25/07
DRAWN	DAP	01/12/07
REVIEWED	JJT	01/15/07

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't.	414+29.28	-15.42'	555.87
A	414+39.28	-15.42'	555.48
B	414+49.28	-15.42'	555.10
Bk. S. Abut.	414.59.28	-15.42'	554.73

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't.	414+29.71	-13.00'	555.90
A	414+39.71	-13.00'	555.51
B	414+49.71	-13.00'	551.13
Bk. S. Abut.	414+59.71	-13.00'	554.76

ROADWAY & PROFILE GRADE LINE

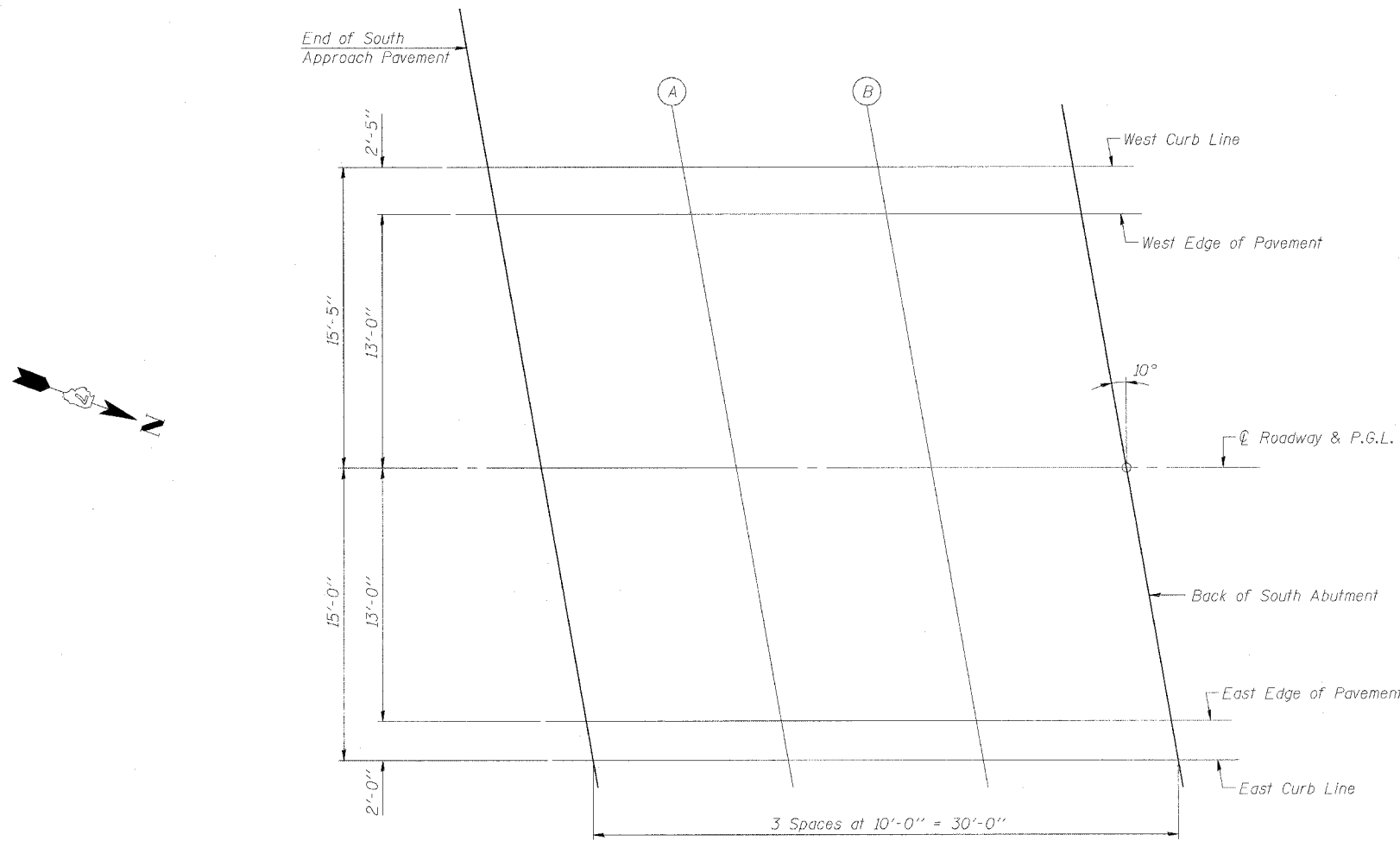
Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't.	414+32.00	0.00'	556.07
A	414+42.00	0.00'	555.68
B	414+52.00	0.00'	555.30
Bk. S. Abut.	414+62.00	0.00'	554.94

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't.	414+34.29	13.00'	555.72
A	414+44.29	13.00'	555.33
B	414+54.29	13.00'	554.96
Bk. S. Abut.	414+64.29	13.00'	554.60

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't.	414+34.64	15.00'	555.67
A	414+44.64	15.00'	555.28
B	414+54.64	15.00'	554.91
Bk. S. Abut.	414+64.64	15.00'	554.55



PLAN

TOP OF SOUTH APPROACH SLAB ELEVATIONS
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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LAYOUT	MM	12/20/07
DRAWN	DAP	01/13/07
REVIEWED	JLT	01/15/07

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	416+67.28	-15.42'	550.37
A	416+77.28	-15.42'	550.32
B	416+87.28	-15.42'	550.28
End N. Appr. Pav't.	416+97.28	-15.42'	550.25

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	416+67.71	-13.00'	550.42
A	416+77.71	-13.00'	550.36
B	416+87.71	-13.00'	550.33
End N. Appr. Pav't.	416+97.71	-13.00'	550.30

☉ ROADWAY & PROFILE GRADE LINE

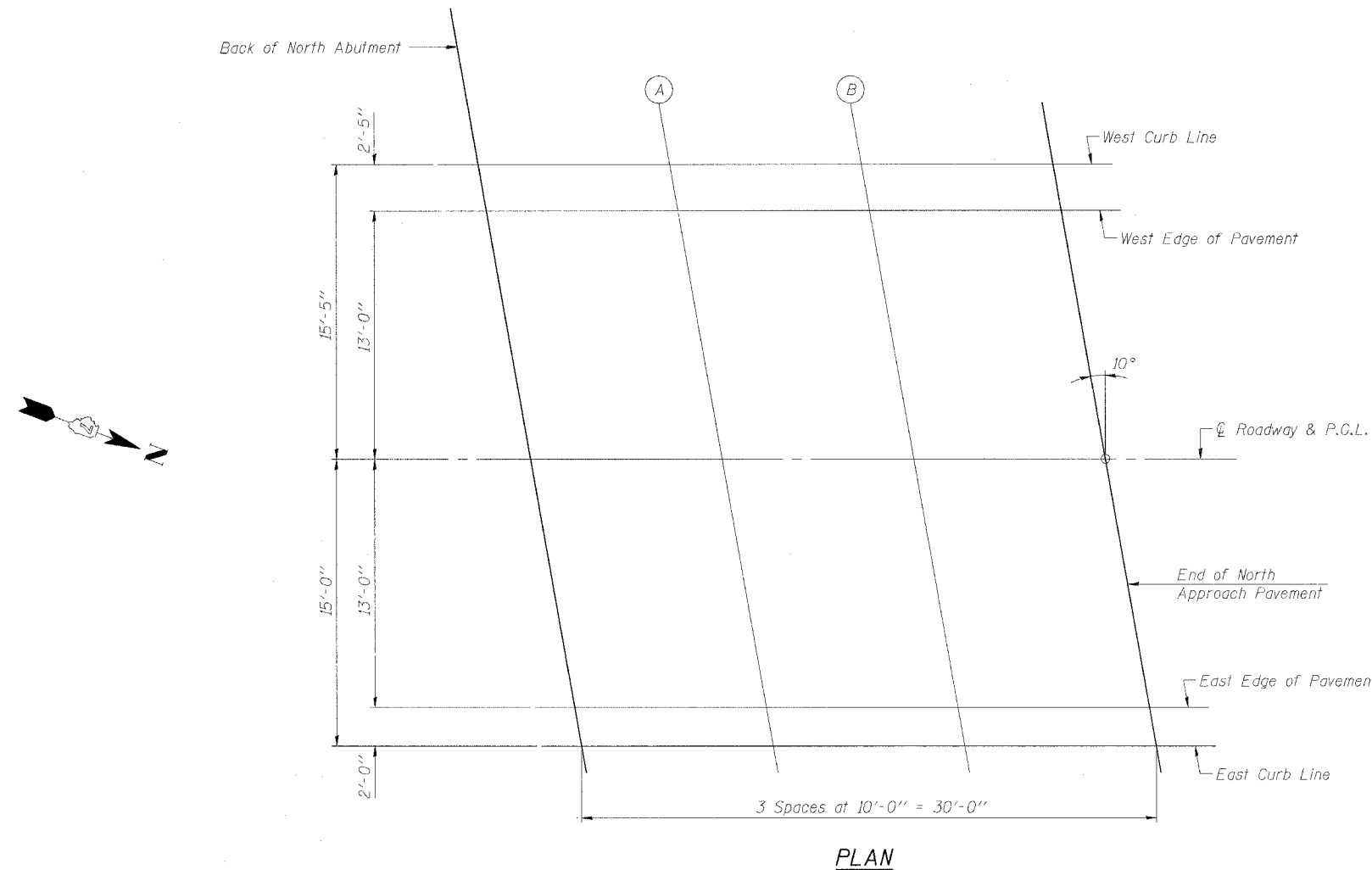
Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	416+70.00	0.00'	550.66
A	416+80.00	0.00'	550.61
B	416+90.00	0.00'	550.58
End N. Appr. Pav't.	417+00.00	0.00'	550.56

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	416+72.29	13.00'	550.39
A	416+82.29	13.00'	550.34
B	416+92.29	13.00'	550.31
End N. Appr. Pav't.	417+02.29	13.00'	550.29

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	416+72.64	15.00'	550.35
A	416+82.64	15.00'	550.30
B	416+92.64	15.00'	550.27
End N. Appr. Pav't.	417+02.64	15.00'	550.25



PLAN

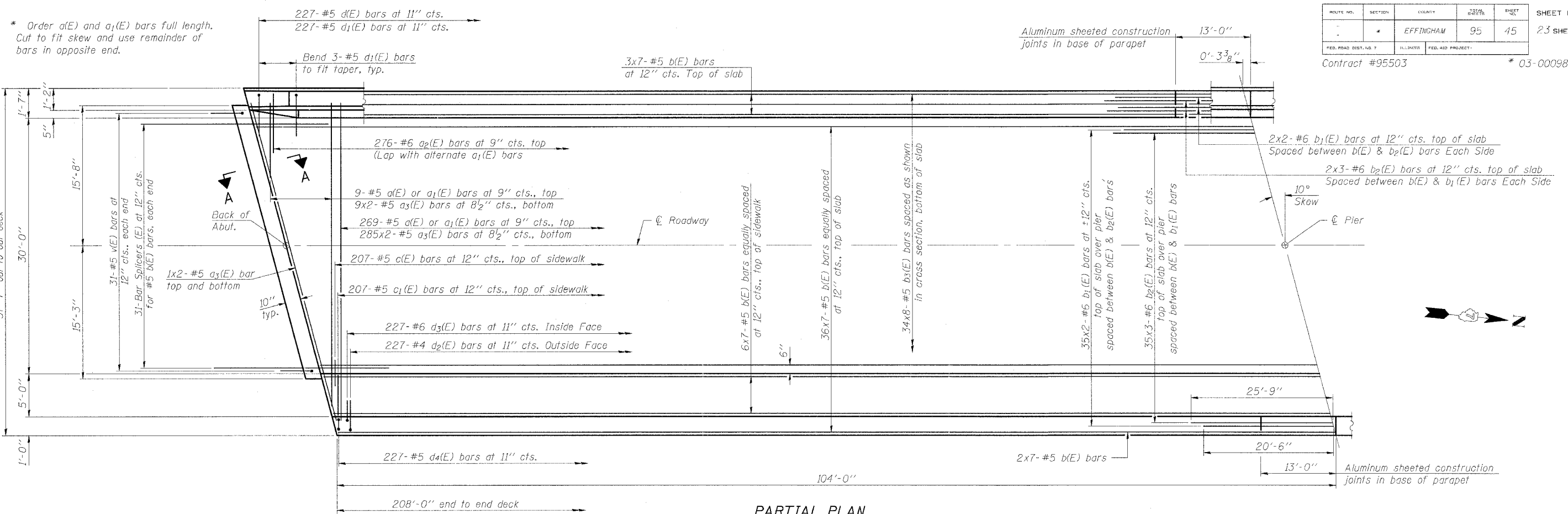
TOP OF NORTH APPROACH SLAB ELEVATIONS
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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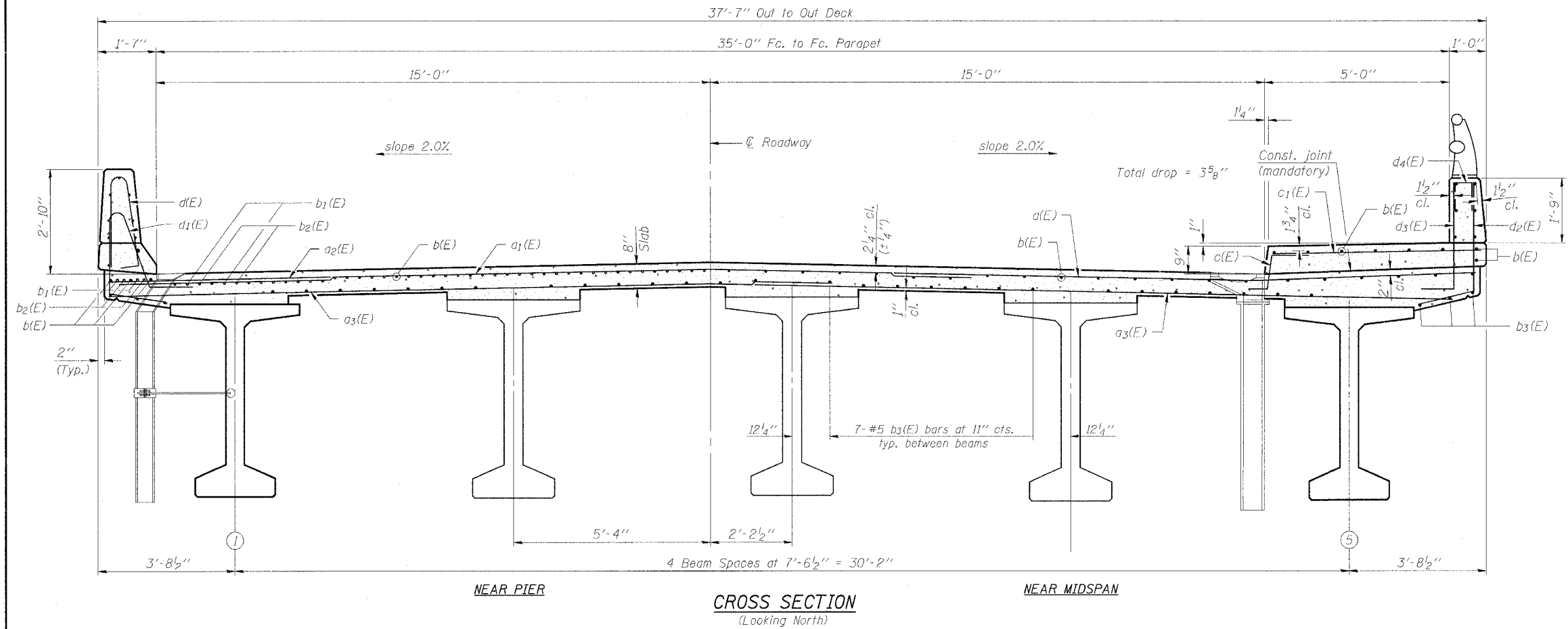


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 REVIEWED JHT 01/15/07
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PARTIAL PLAN



Notes:
 See Sheets 08 and 09 of 23 for superstructure details and Bill of Material.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 4x3-#5 etc. indicates 4 lines of bars with 3 lengths per line.
 See Sheet 08 of 23 for parapet reinforcement.
 See Bar Splicer (Coupler) Details, Sheet 20 of 23.
 See Sheet 12 of 23 for Section A-A.

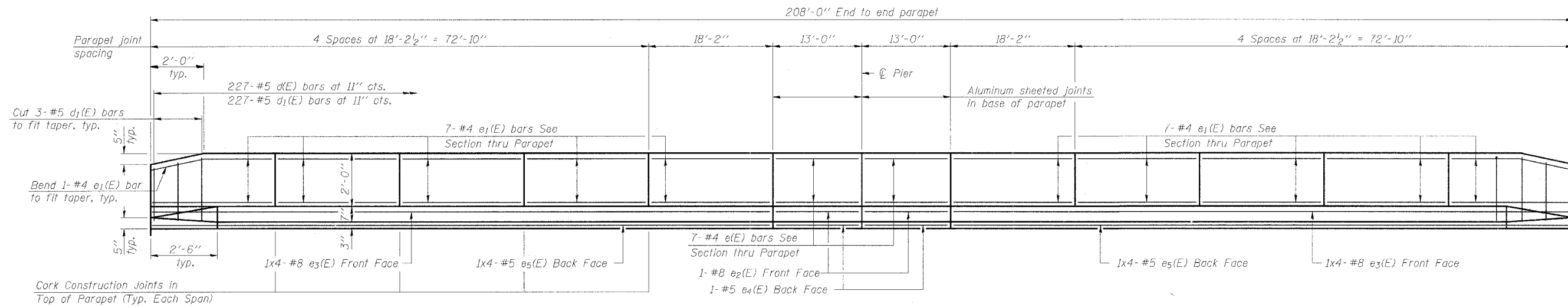
- MIN. BAR LAPS**
- #4 Bar - 1'-8"
 - #5 Bar - 2'-2"
 - #6 Bar - 2'-7"
 - #8 Bar - 4'-5"

SUPERSTRUCTURE
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

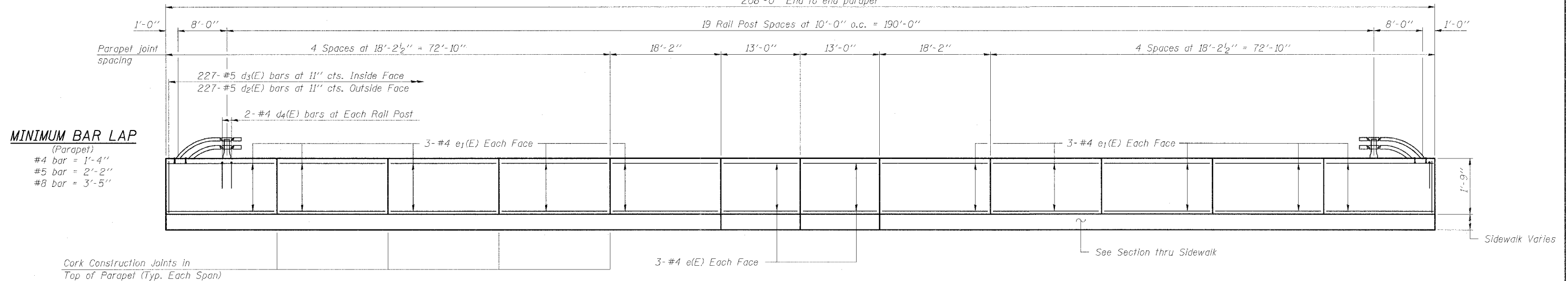
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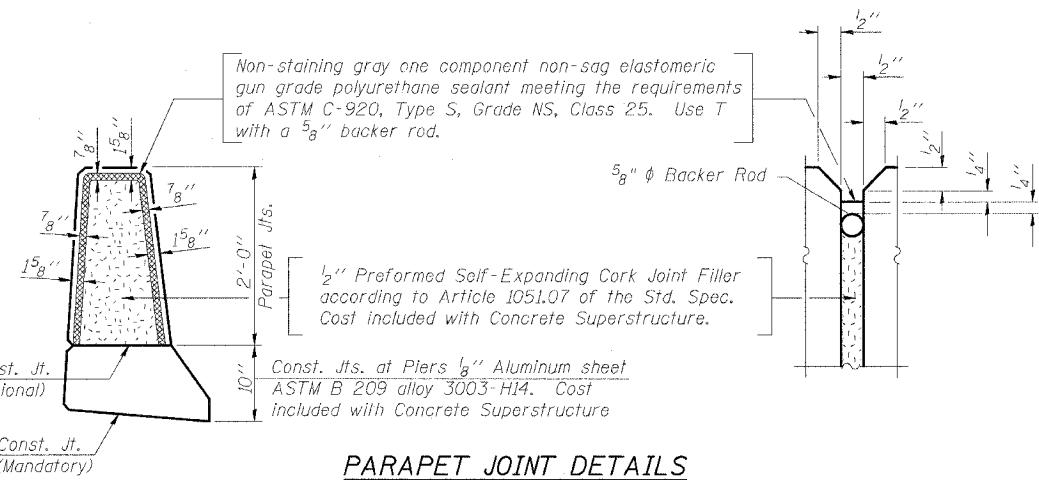


INSIDE ELEVATION OF PARAPET

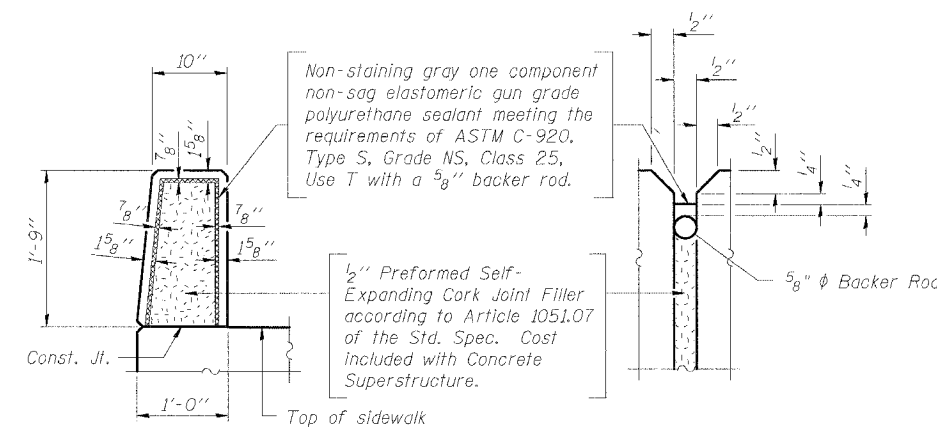


MINIMUM BAR LAP

(Parapet)
 #4 bar = 1'-4"
 #5 bar = 2'-2"
 #8 bar = 3'-5"



PARAPET JOINT DETAILS



SIDEWALK 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 exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.
 The clamping device and inserts shall be galvanized according to AASHTO M 232.

SUPERSTRUCTURE DETAILS (SHEET 1)
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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JOB NO.

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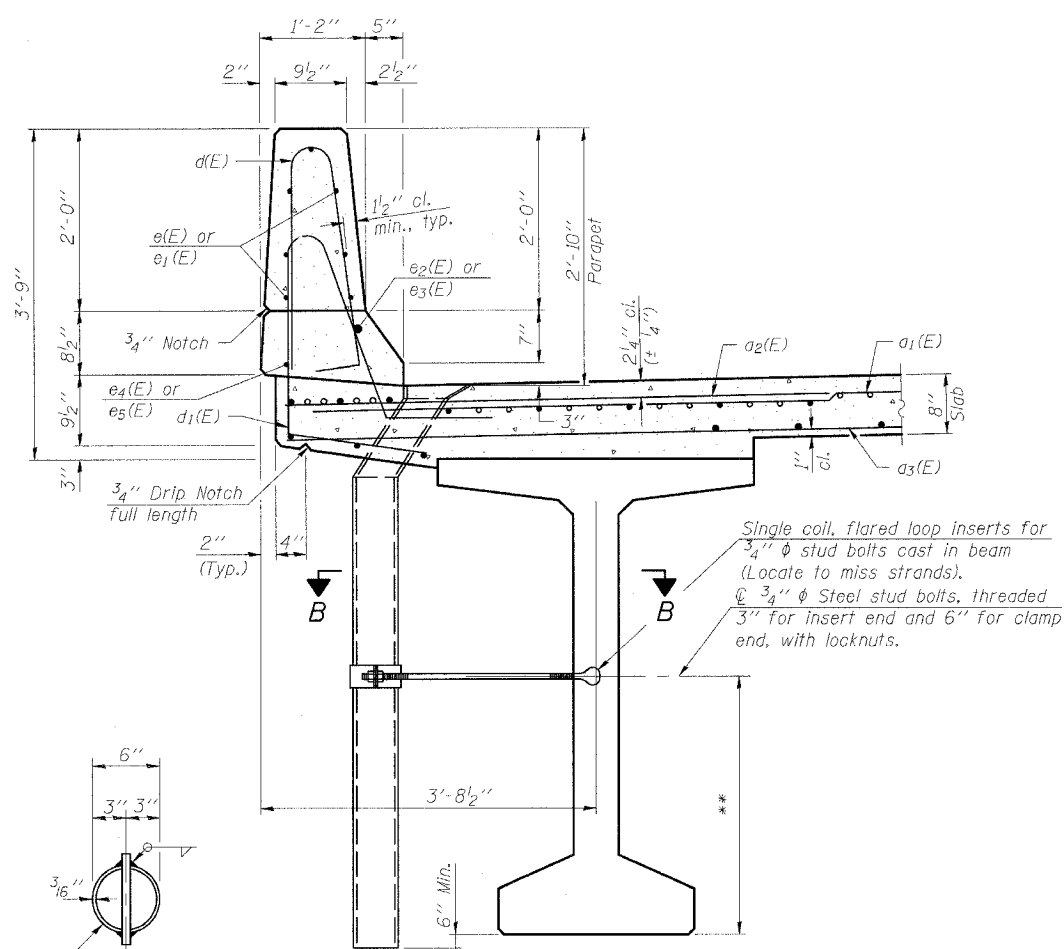
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 DRAWN: JBT
 REVIEWED: JBT

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	278	#5	15'-10"	—
a ₁ (E)	278	#5	23'-6"	—
a ₂ (E)	276	#6	6'-0"	—
a ₃ (E)	596	#5	19'-9"	—
b(E)	329	#5	31'-7"	—
b ₁ (E)	74	#6	21'-10"	—
b ₂ (E)	111	#6	18'-11"	—
b ₃ (E)	272	#5	27'-11"	—
c(E)	207	#5	2'-5"	J
c ₁ (E)	207	#5	5'-7"	—
d(E)	227	#5	5'-7"	J
d ₁ (E)	227	#5	7'-3"	—
d ₂ (E)	227	#4	4'-5"	—
d ₃ (E)	227	#6	3'-9"	J
d ₄ (E)	40	#4	2'-0"	—
e(E)	26	#4	12'-9"	—
e ₁ (E)	130	#4	17'-11"	—
e ₂ (E)	2	#8	12'-9"	—
e ₃ (E)	8	#8	25'-3"	—
e ₄ (E)	2	#5	12'-9"	—
e ₅ (E)	8	#5	24'-4"	—
m(E)	8	#6	16'-8"	—
m ₁ (E)	16	#6	20'-4"	—
m ₂ (E)	30	#6	9'-9"	—
m ₃ (E)	16	#6	5'-1"	—
m ₄ (E)	4	#6	2'-5"	—
m ₅ (E)	24	#4	6'-10"	—
m ₆ (E)	5	#8	6'-2"	—
s(E)	68	#5	5'-8"	J
s ₁ (E)	44	#4	14'-8"	—
s ₂ (E)	16	#4	14'-0"	—
v(E)	62	#5	3'-4"	J
Reinforcement Bars, Epoxy Coated			Pound	62540
Concrete Superstructure			Cu. Yds.	336.5

Bars indicated thus 1x3-#5 etc. indicates 1 line of bars with 3 lengths per line.

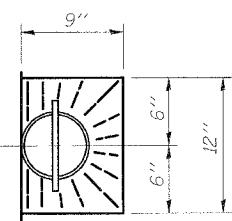


SECTION THRU PARAPET

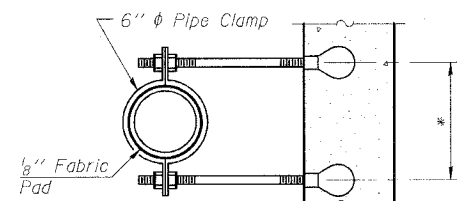
**For insert locations See sheet 14 of 23.

TOP PLAN

(Showing Aluminum Tube)

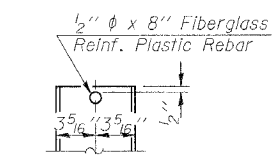


TOP PLAN

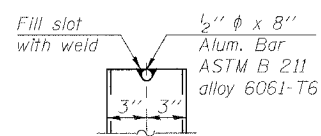


SECTION A-A

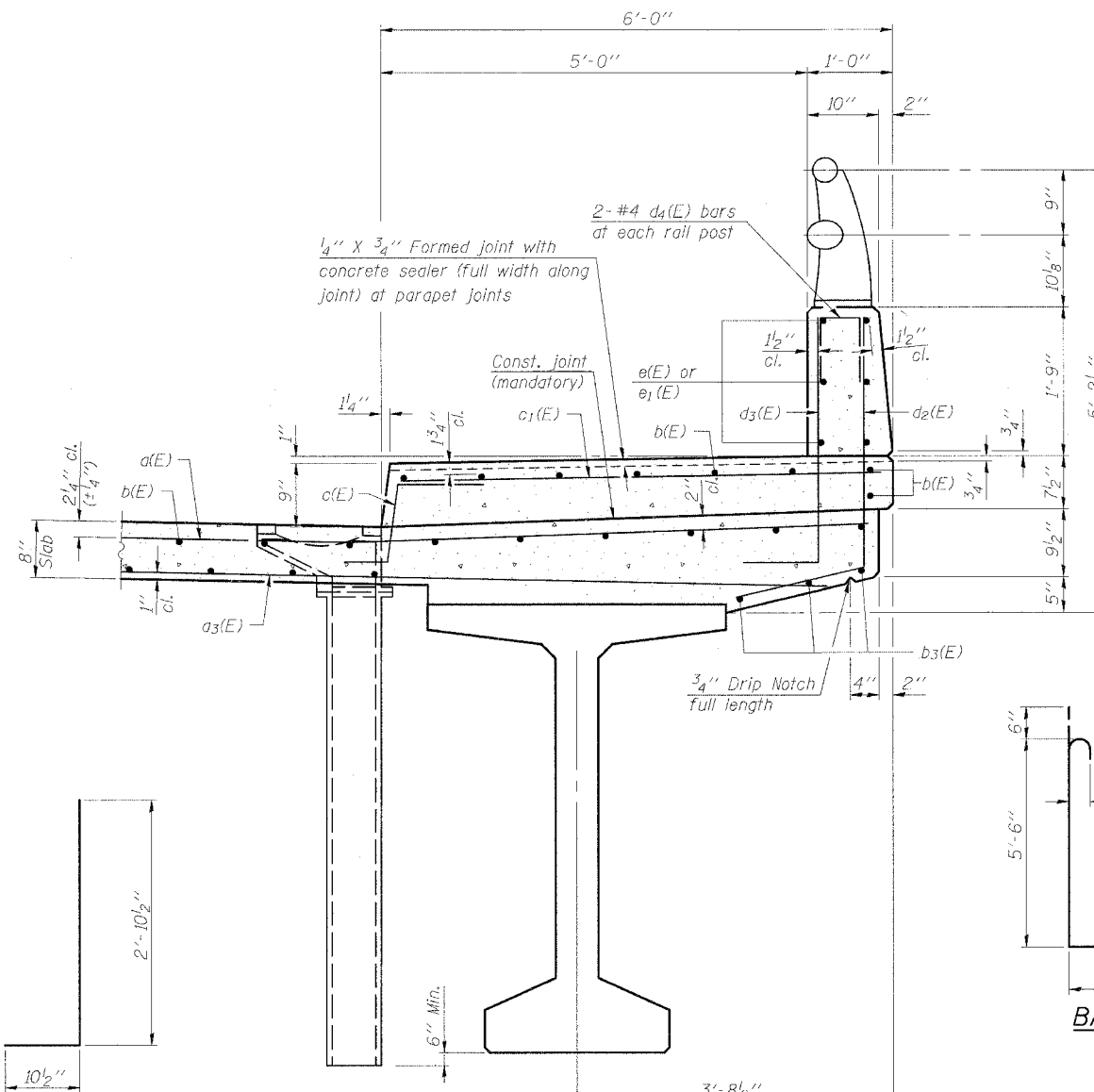
* Dimension as required by Pipe Clamp



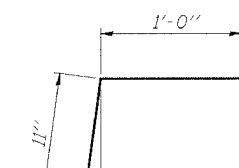
FIBERGLASS PIPE



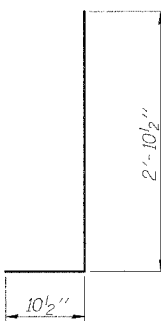
ALUMINUM TUBE



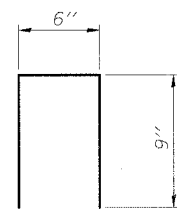
SECTION THRU SIDEWALK



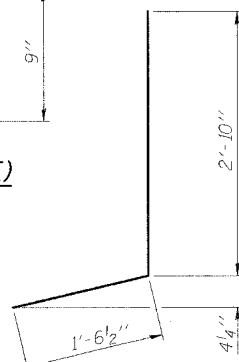
BAR c(E)



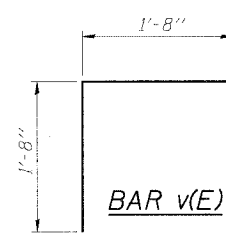
BAR d₃(E)



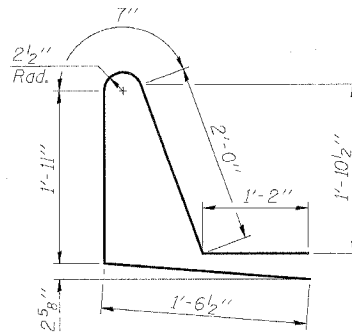
BAR d₄(E)



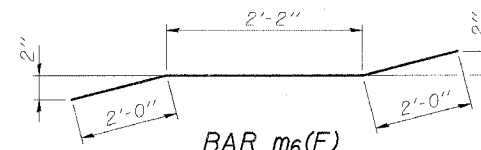
BAR d₂(E)



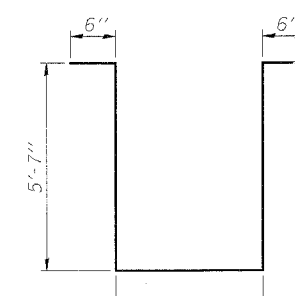
BAR v(E)



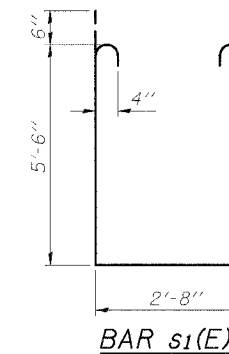
BAR d₁(E)



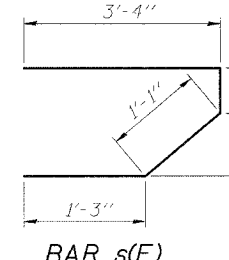
BAR m₆(E)



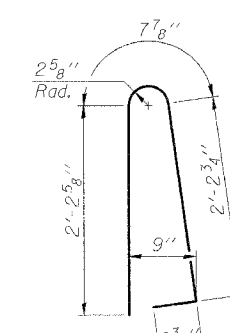
BAR s₂(E)



BAR s₁(E)



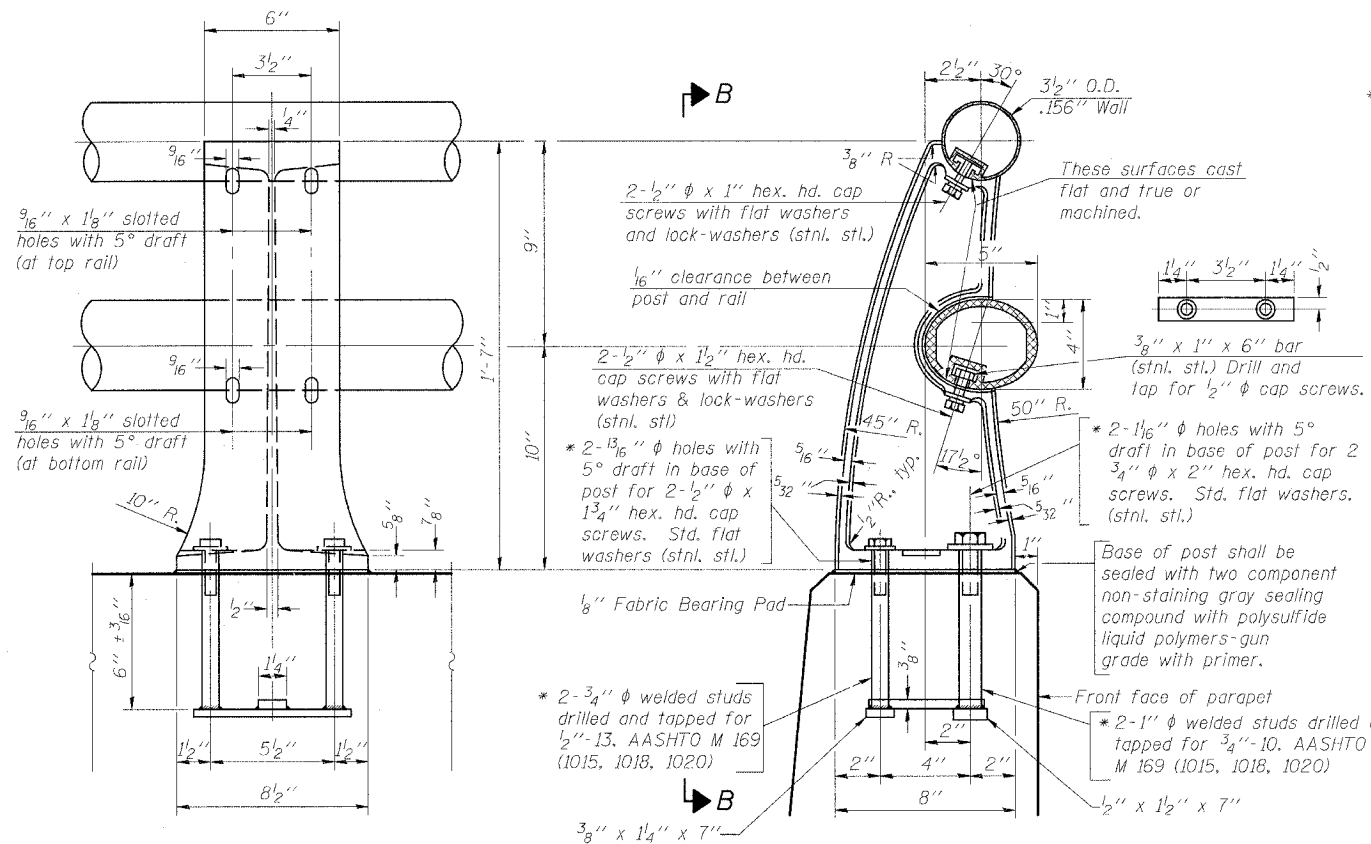
BAR s(E)



BAR d(E)

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 LAYOUT: MAIN: 12/20/07
 DRAWN: DAP: 01/17/07
 REVIEWED: JAL: 01/15/07

SUPERSTRUCTURE DETAILS (SHEET 2)
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009
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 05S2071
 DATE 03/29/07

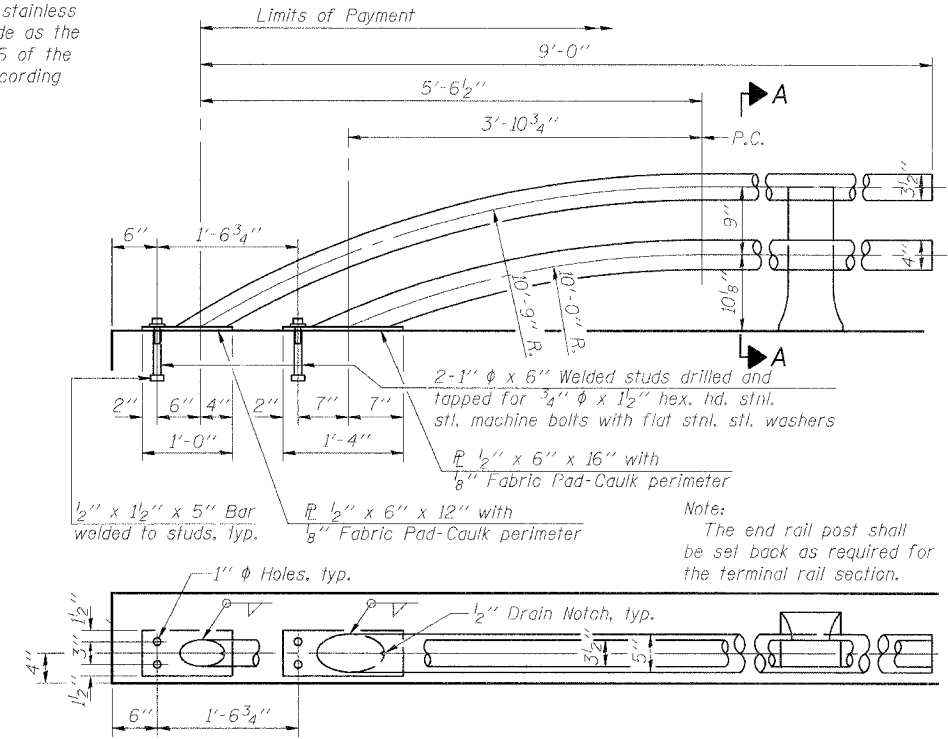


VIEW B-B

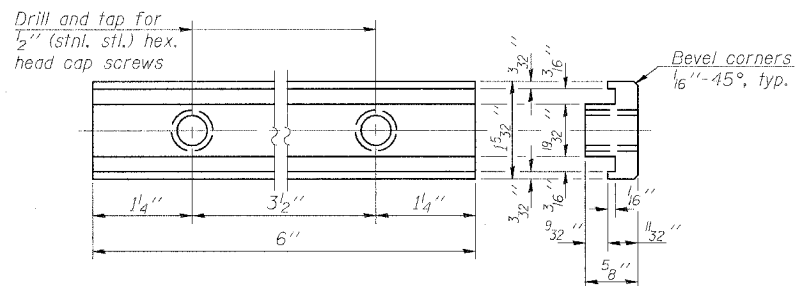
SECTION A-A

RAIL POST DETAILS

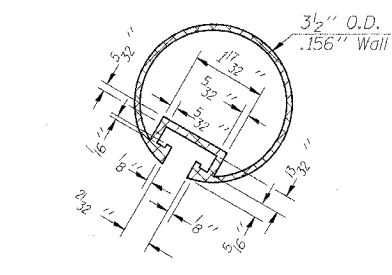
* In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



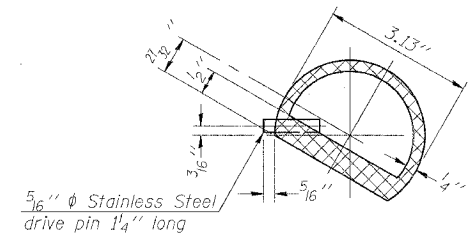
RAIL TERMINAL SECTION



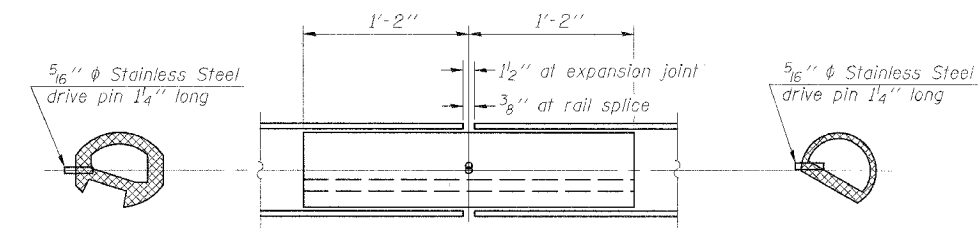
RAIL POST CLAMP BAR
For Top Rail



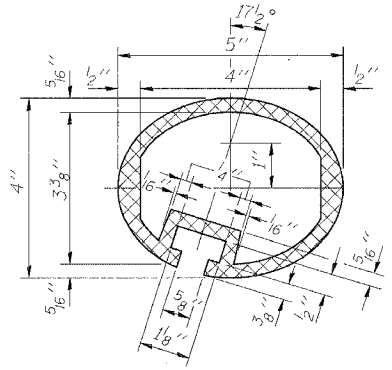
SECTION THRU TOP RAIL



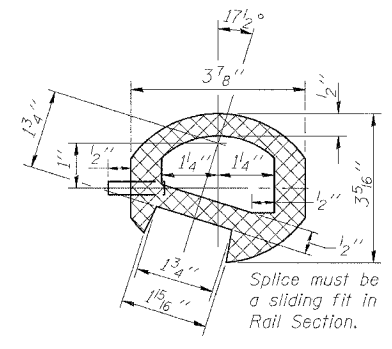
SECTION THRU SPLICE
For Top Rail



RAIL SPLICE



SEC. THRU ELLIPTICAL
RAIL SECTION



SEC. THRU SPLICE

Notes:

All Posts shall be normal to parapet.
All joints in rail shall be spliced per detail.
Provide 1-1/8 inch and 2-1/16 inch Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.
See sheet 08 of 23 for rail post spacing.

BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Railing, Type L	Foot	206

ALUMINUM RAILING, TYPE L
OUTER BELT WEST OVER TRIBUTARY
TO LITTLE WABASH RIVER
LOCAL ROAD SEC. 03-00098-00-BR
EFFINGHAM COUNTY
STATION 415+66.00
STRUCTURE NO. 025-6009



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LAYOUT	MM	12/29/07
DRAWN	DAP	01/12/08
REVIEWED	JUT	01/15/08

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*		EFFINGHAM	95	49
SHEET NO. 11				
23 SHEETS				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
Contract #95503			* 03-00098-00-BR	

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

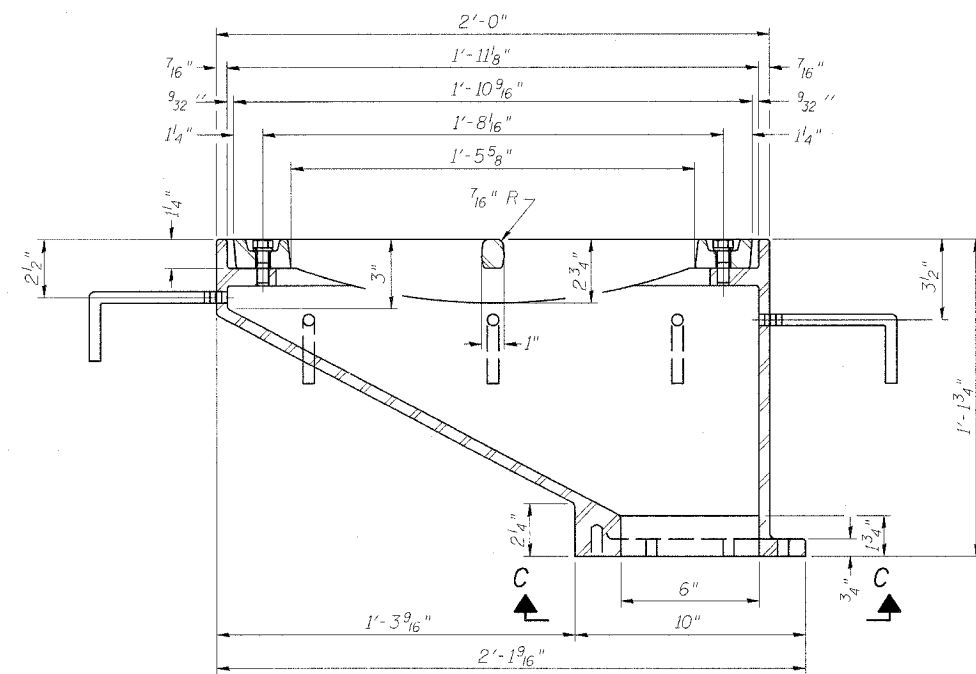
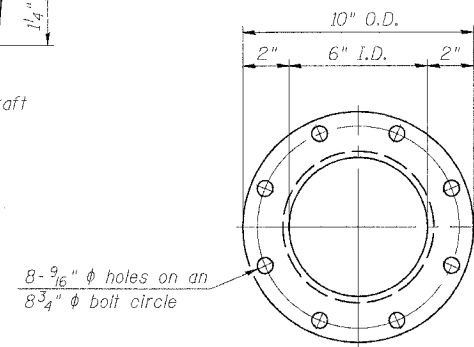
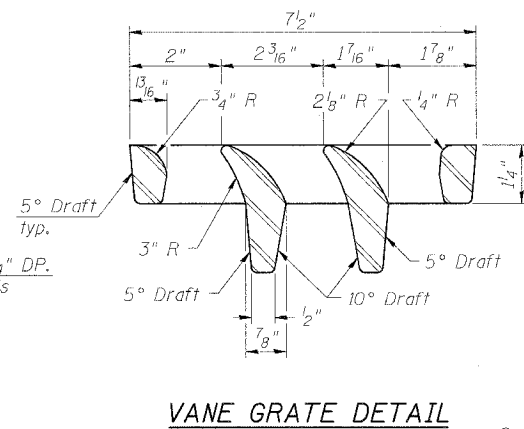
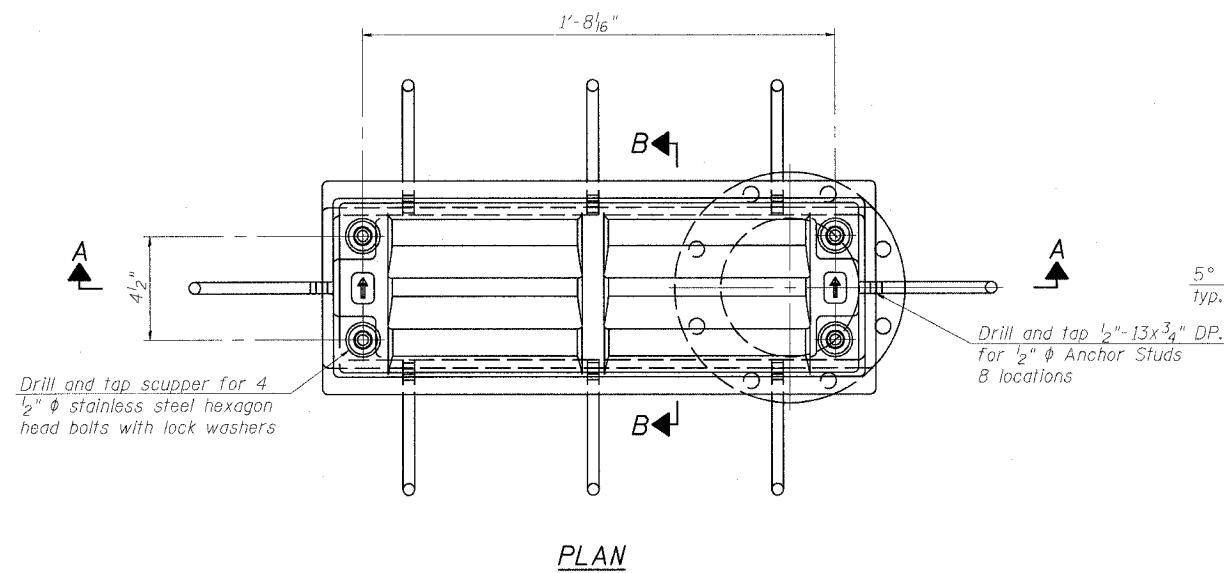
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO Mill.

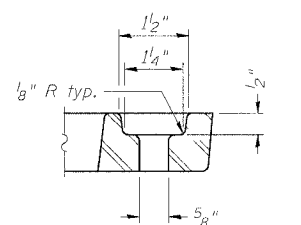
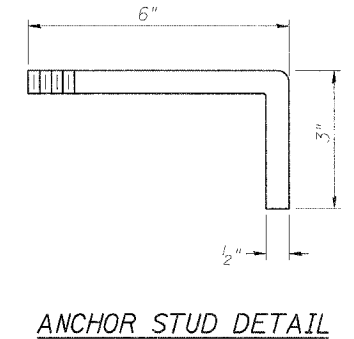
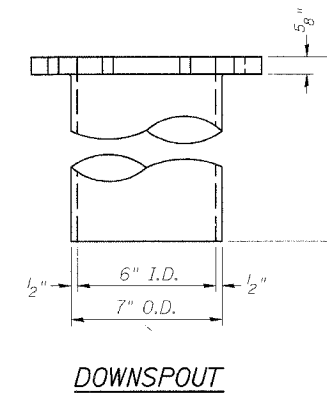
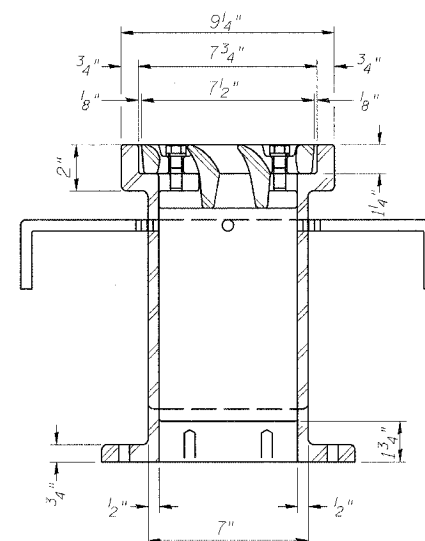
The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.

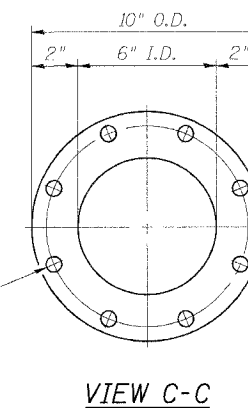
Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



See sheet of for scupper location relative to parapet.



Drill and tap 8 holes for 1/2"-13 bolts on an 8-3/4" φ bolt circle. (2 blind holes are 1/4" deep, 6 thru holes)



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	2

DRAINAGE SCUPPER, DS-12
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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JOB NO.

05S2071

DATE

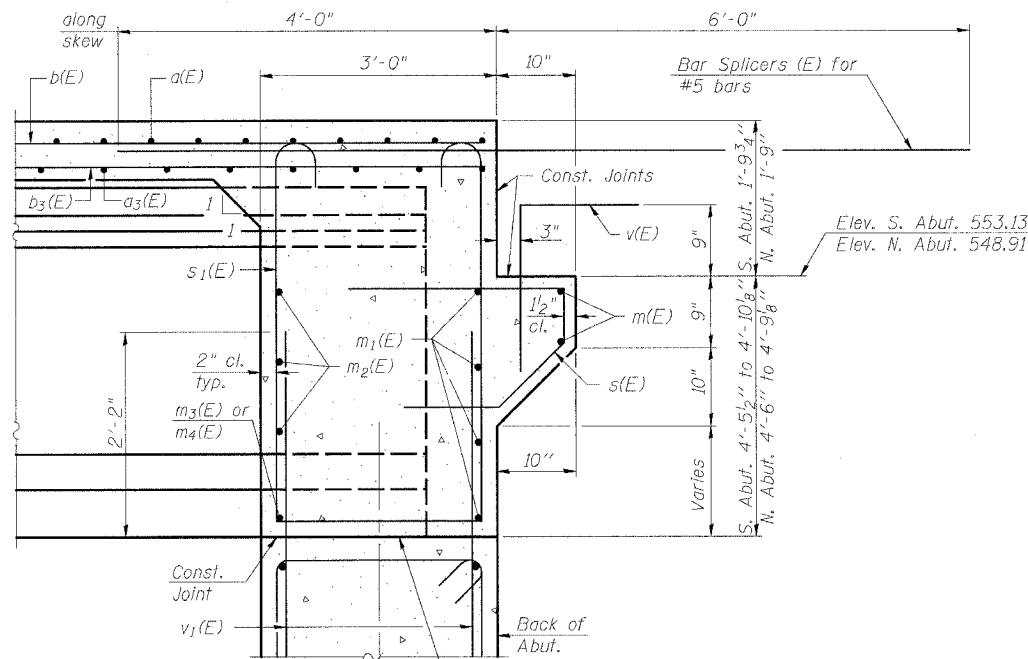
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REVIEWED	JJT	01/15/07

DS-12

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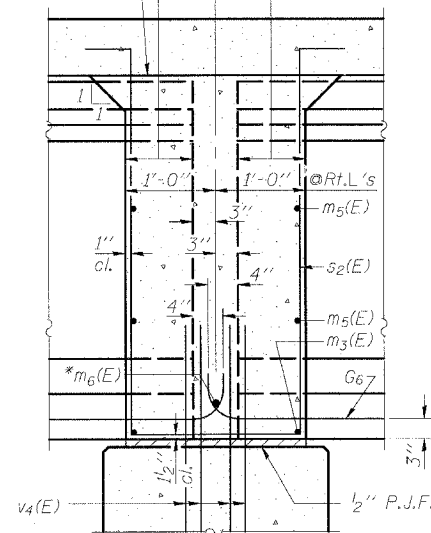


SECTION A-A

Dimensions of right angles to abutment, except as shown.

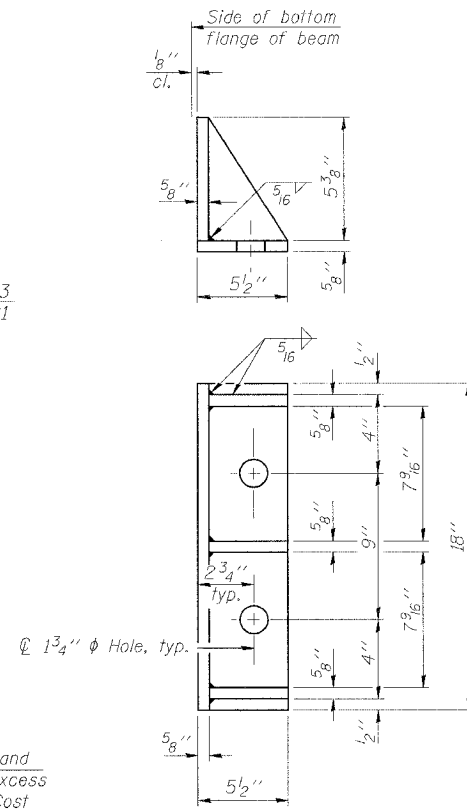
Pour diaphragm flush with bott. of slab. Concrete in slab above this line shall be placed not less than 45 min. nor more than 90 min. after diaphragm has been poured.

Roofing felt shall be bonded to side of beam embedded into diaphragm.



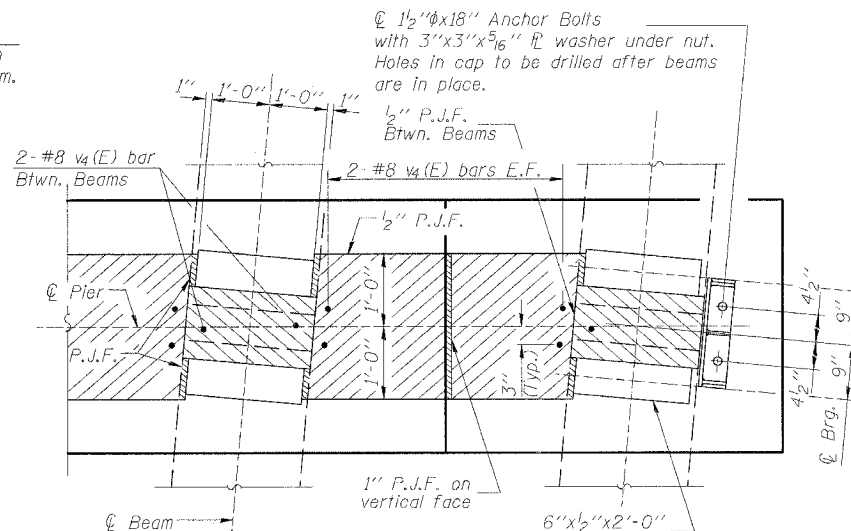
SECTION B-B

Dimensions along centerline of beam, except as shown.



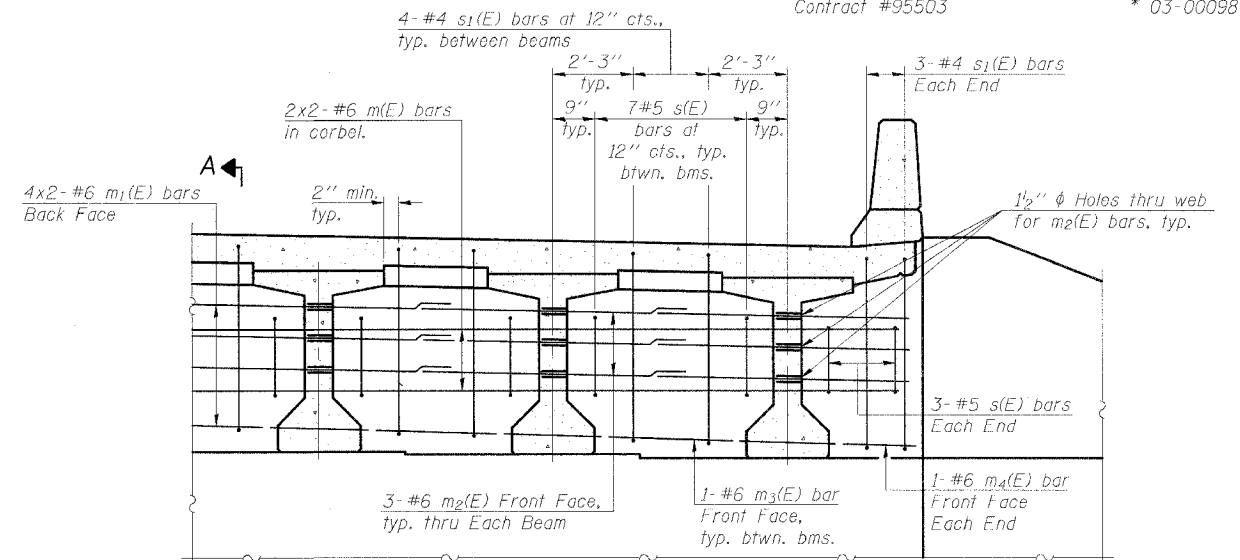
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



PARTIAL PIER PLAN

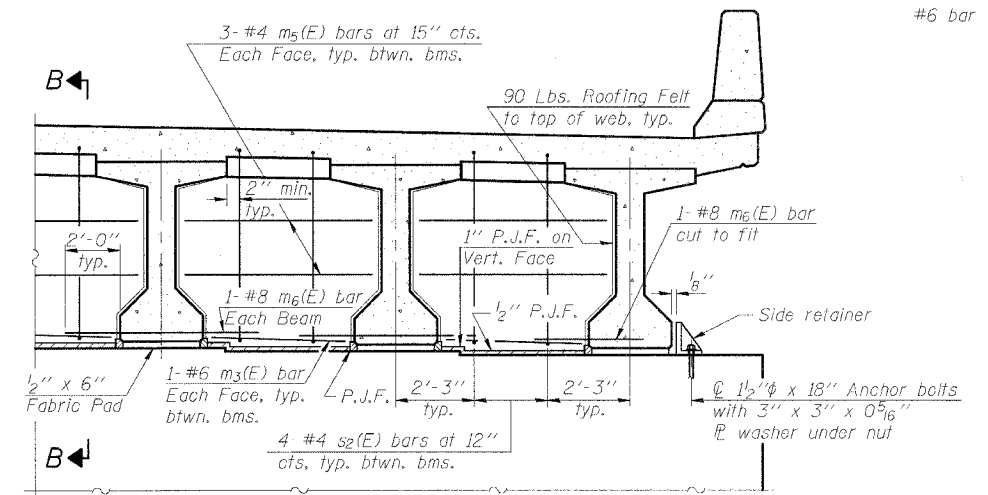
* Tightly fasten the #8 bars together with No. 9 wire ties.



DIAPHRAGM ELEVATION AT ABUTMENT

MIN. BAR LAP

#6 bar = 2'-9"



DIAPHRAGM AT PIER

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 09 of 23.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 09 of 23.
 For details of bars s(E), s1(E) and s2(E) see sheet 09 of 23.
 The s(E), s1(E) and s2(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 Cost of 90 Lb. roofing felt is included with Concrete Superstructure.
 The side retainer shall be galvanized after shop fabrication according to AASHTO M 111. Cost of side retainer and anchor bolts shall be included with Concrete Structures.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

DIAPHRAGM DETAILS
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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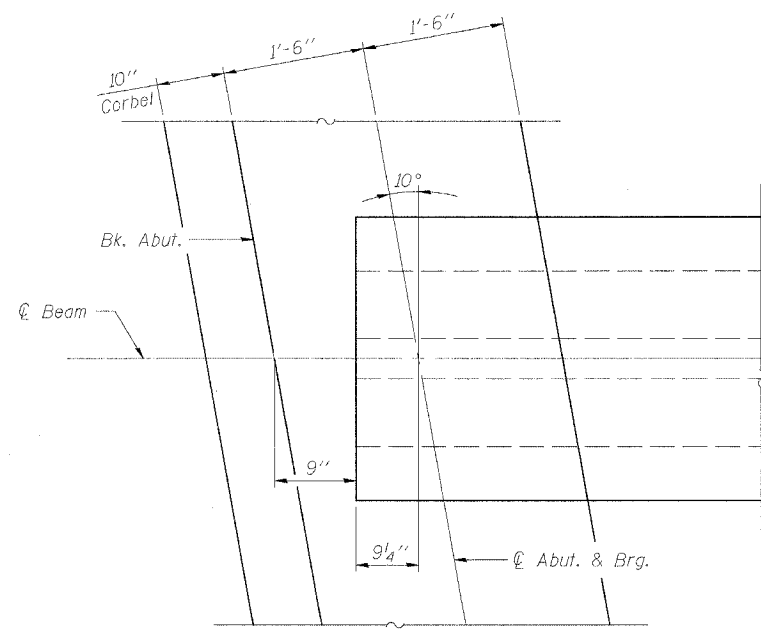
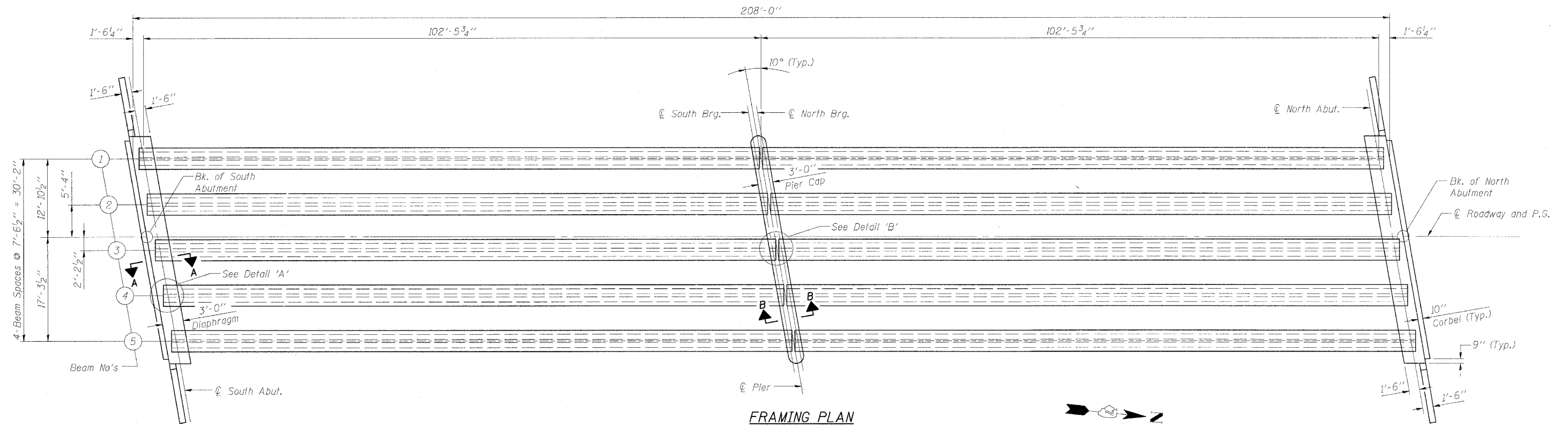


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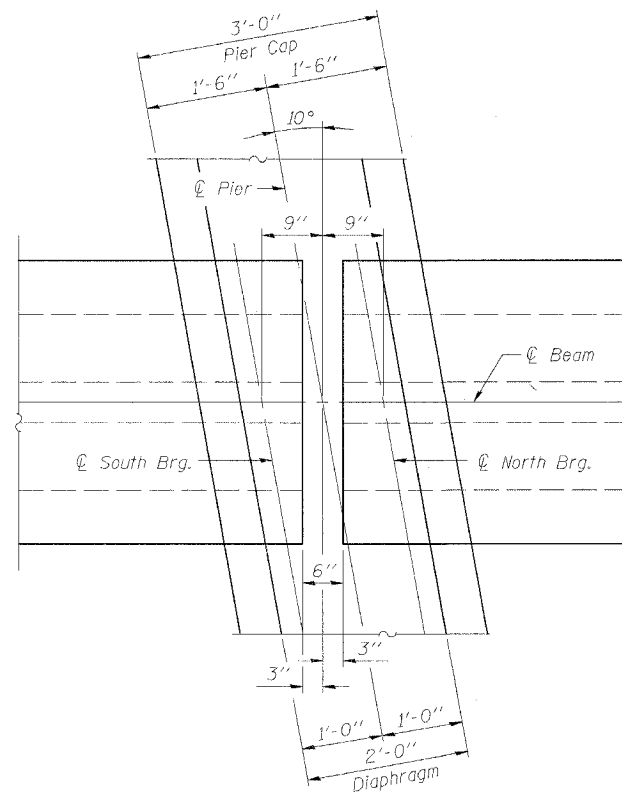
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DRAWN	DP	01/22/07
REVIEWED	JT	07/15/07



DETAIL 'A'



DETAIL 'B'

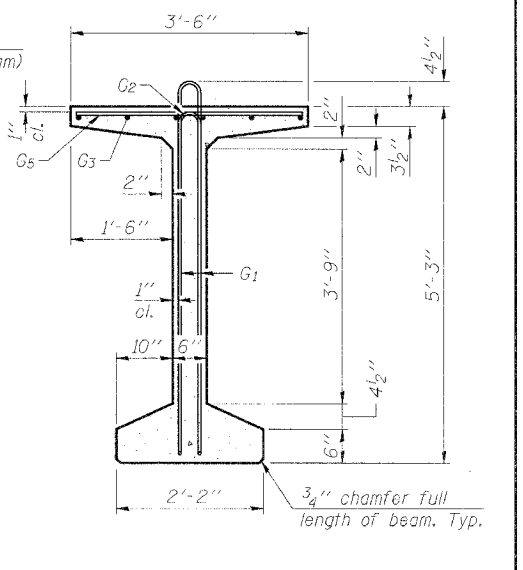
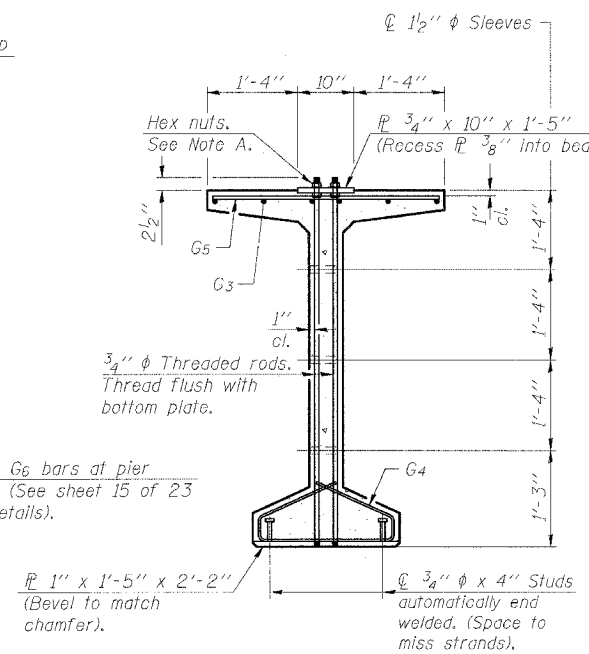
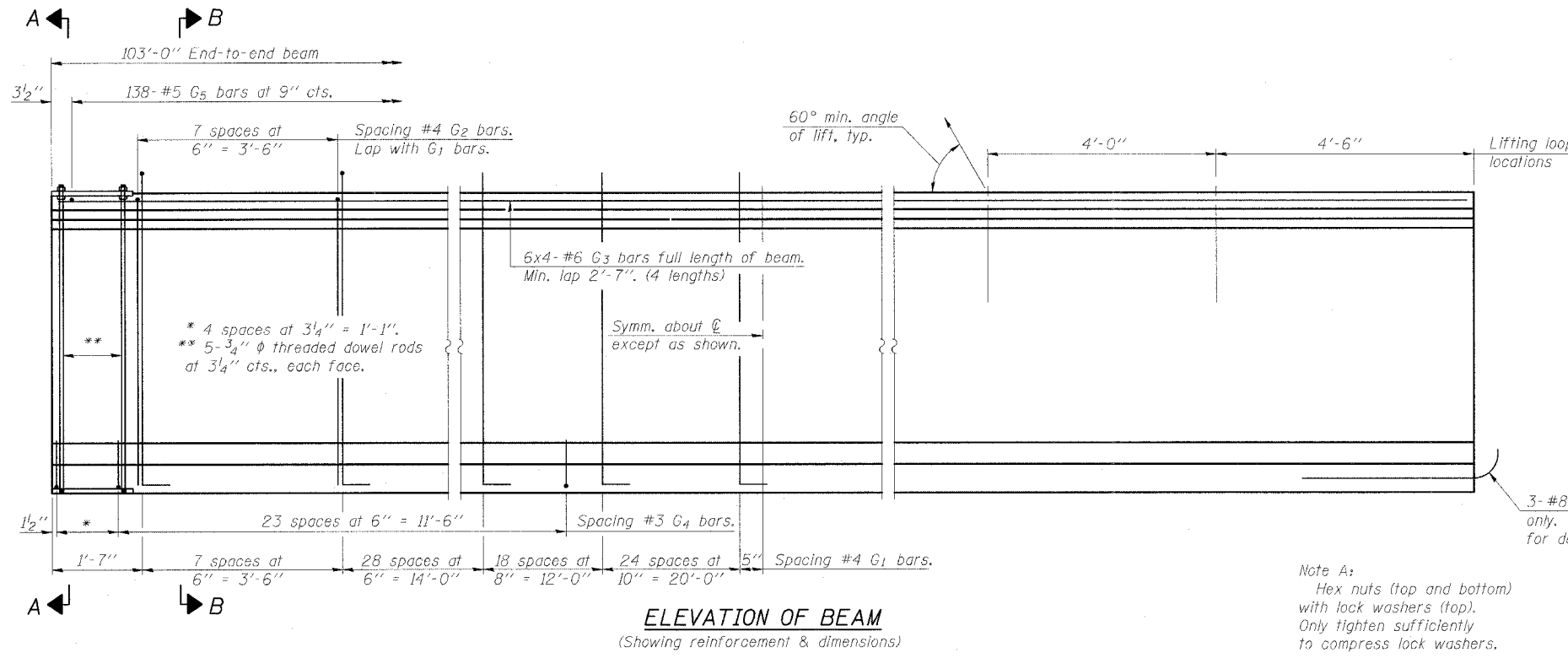
Notes:
See Sheet 12 of 23 for Section A-A and B-B.

FRAMING PLAN
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

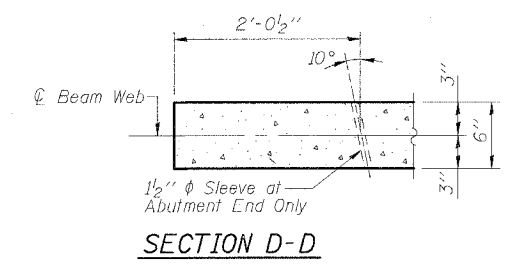
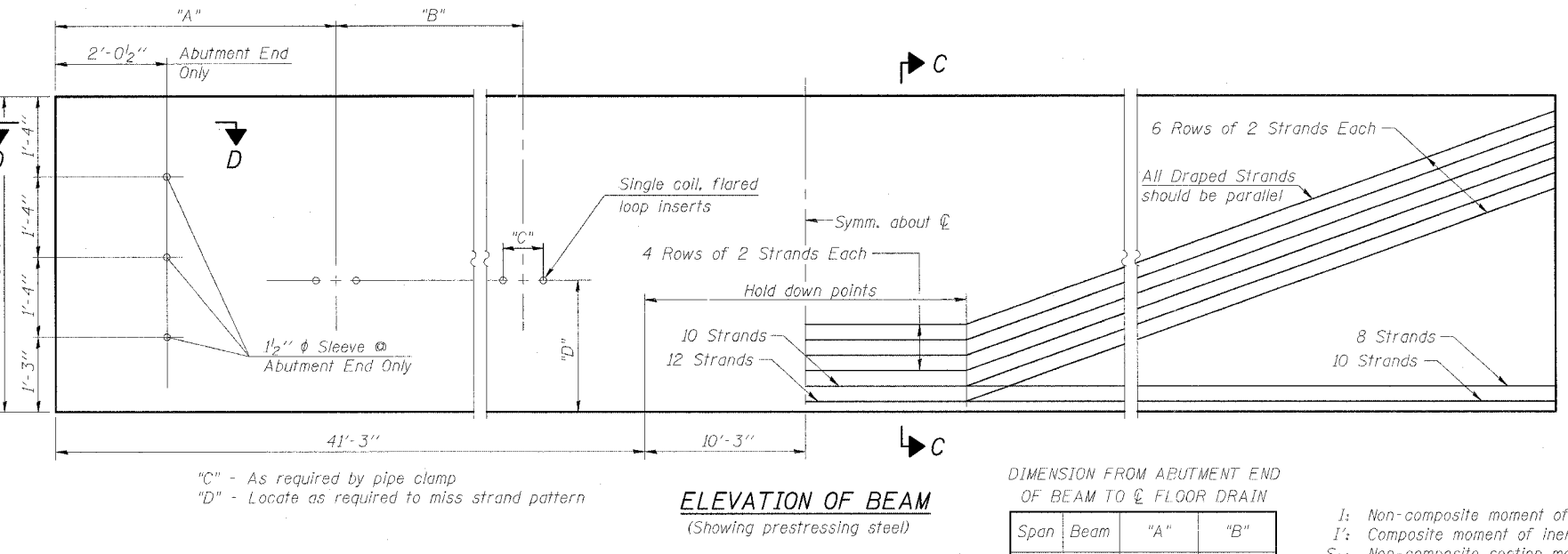
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 DATE 03/29/07

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 LAYOUT: MM 12/20/07
 DRAWN: DAP 07/22/07
 REVIEWED: JLT 07/15/07



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

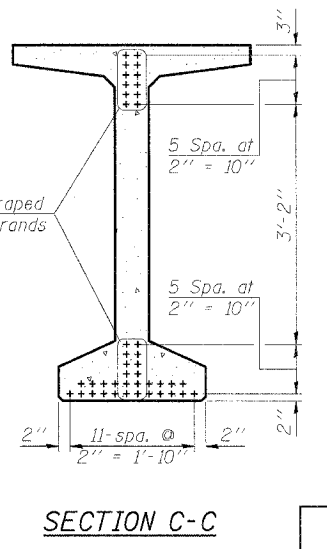


*** BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G1	156	#4	11'-11"	∩
G2	16	#4	10'-2"	∩
G3	24	#6	27'-9"	—
G4	56	#3	4'-11"	⊔
G5	138	#5	3'-4"	—
G6	3	#8	3'-9"	—

*** For information only

Notes:
See sheet 15 of 23 for additional details and Bill of Material.
Required release strength, $f'ci$, shall be 5000 psi.



DIMENSION FROM ABUTMENT END OF BEAM TO CENTERLINE OF FLOOR DRAIN

Span	Beam	"A"	"B"
1	1	14'-6 1/4"	15'-0"
1	5	17'-9 3/8"	-
2	1	12'-11 3/4"	15'-0"
2	5	18'-3 1/2"	-

INTERIOR BEAM REACTION TABLE

	Abut.	Pier 1 Span 1	Pier 1 Span 2
$R\phi$	(k)	79.8	79.8
$R_s\phi$	(k)	22.4	37.3
R_L	(k)	43.8	37.0
Imp.	(k)	9.7	8.2
R_{Total}	(k)	155.7	162.3

* The total $R_s\phi$, R_L , and impact reactions are assumed to be distributed evenly to each bearing line at a pier regardless of the span ratios. The bearing design at a pier is based on the maximum reactions of either span.

INTERIOR BEAM MOMENT TABLE

	0.4 Sp. 1	0.6 Sp. 2	Pier 1
I	(in ⁴)	392638	
I'	(in ⁴)	774483	
S_b	(in ³)	12224	
S_b'	(in ³)	16353	
S_t	(in ³)	12715	
S_t'	(in ³)	49519	
Q	(k/ft)	1.563	
$M\phi$	(k)	1943.6	
$s\phi$	(k/ft)	0.582	0.582
$M_s\phi$	(k)	429.5	738.1
M_L	(k)	862.1	789.2
M_{Imp}	(k)	190.5	174.4

- I : Non-composite moment of inertia of beam section (in⁴).
- I' : Composite moment of inertia of beam section (in⁴).
- S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_t : Non-composite section modulus for the top fiber of the prestressed beam (in³).
- S_t' : Composite section modulus for the top fiber of the prestressed beam (in³).
- Q : Un-factored non-composite dead load (kips/ft.).
- $M\phi$: Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
- $s\phi$: Un-factored long-term composite (superimposed) dead load (kips/ft.).
- $M_s\phi$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
- M_L : Un-factored live load moment on the composite section (kip-ft.).
- M_{Imp} : Un-factored moment due to impact on the composite section (kip-ft.).

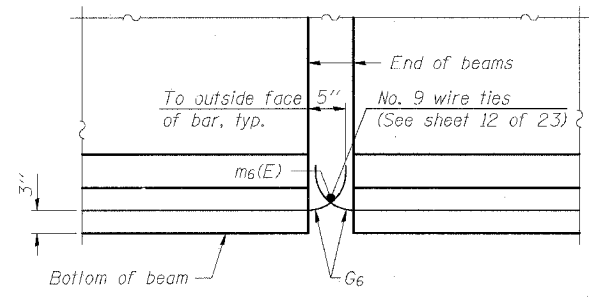
63" PPC BULB T-BEAM
OUTER BELT WEST OVER TRIBUTARY
TO LITTLE WABASH RIVER
LOCAL ROAD SEC. 03-00098-00-BR
EFFINGHAM COUNTY
STATION 415+66.00
STRUCTURE NO. 025-6009

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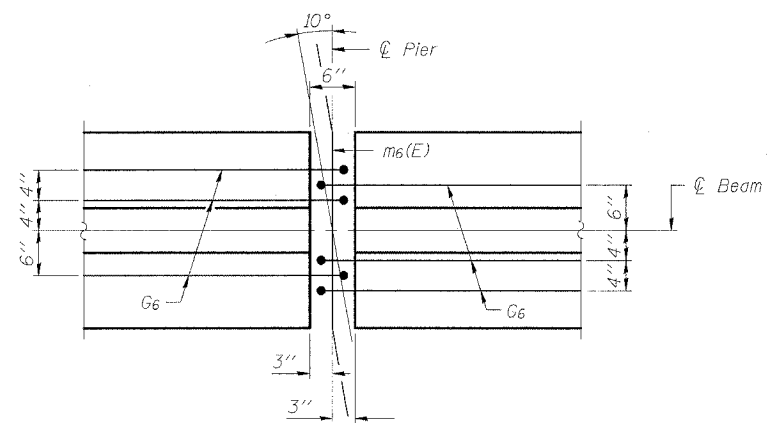
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JOB NO. 05S2071
DATE 03/29/07

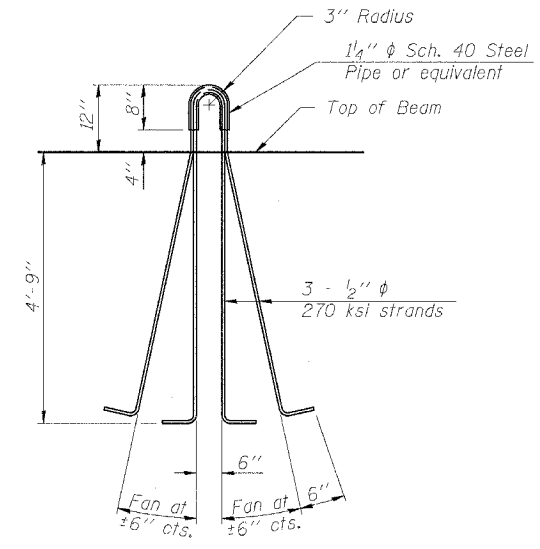
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ELEVATION OF BEAM AT PIER



PLAN OF BEAM AT PIER



LIFTING LOOP DETAIL

NOTES

Inserts for 3/4" ϕ 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.

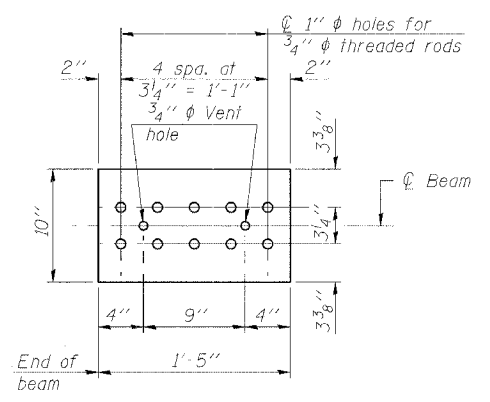
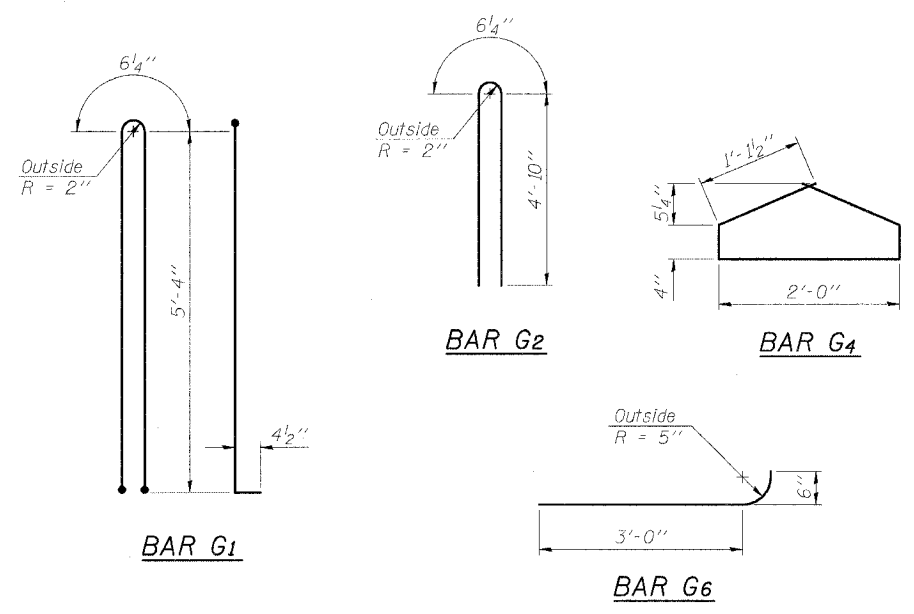
A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.

Cut G6 bars when necessary to maintain 1 1/2" clearance.

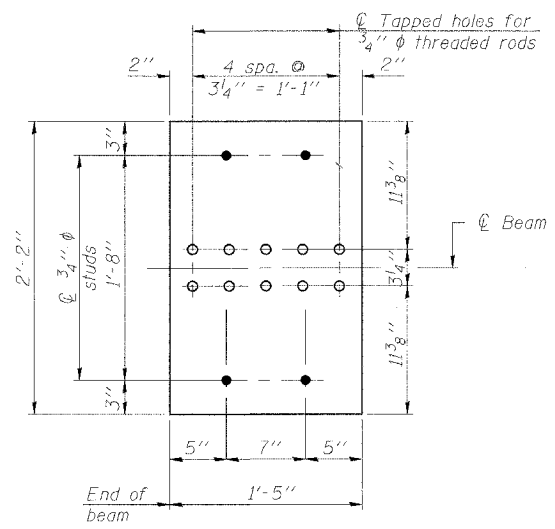
The bottom plates and studs shall be galvanized according to AASHTO Mill.

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 63 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.



TOP PLATE



BOTTOM PLATE

See bearing details for pintle hole locations when required.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Ft.	1030

63" PPC BULB T-BEAM DETAILS
OUTER BELT WEST OVER TRIBUTARY
TO LITTLE WABASH RIVER
LOCAL ROAD SEC. 03-00098-00-BR
EFFINGHAM COUNTY
STATION 415+66.00
STRUCTURE NO. 025-6009

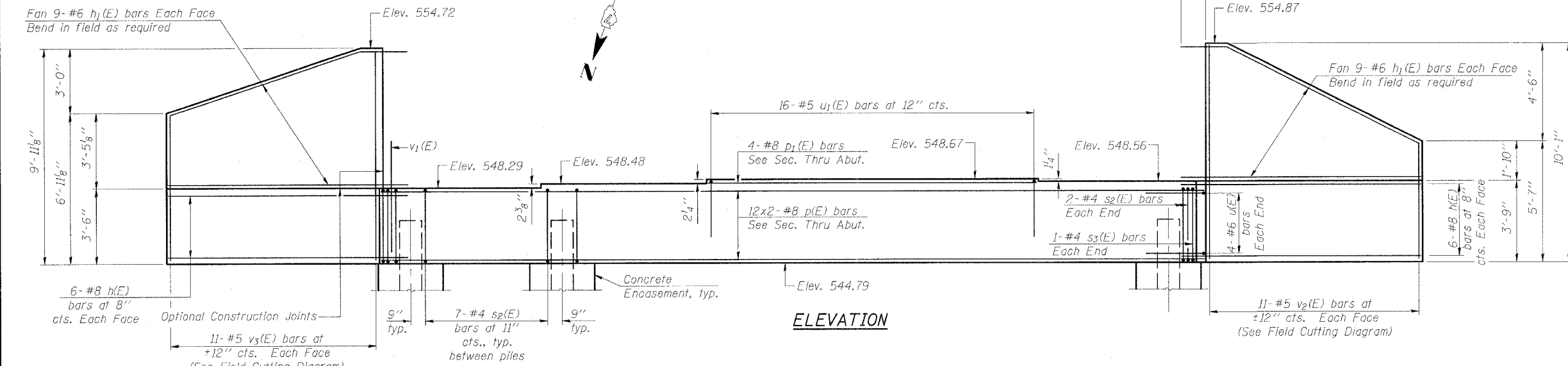
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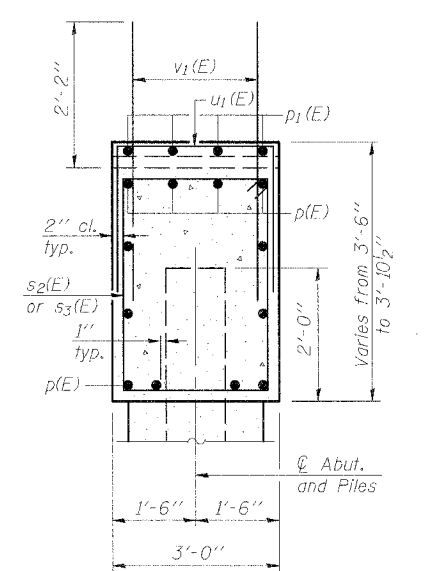
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 DRAWN: DAP 01/12/07
 REVIEWED: JUT 01/15/07

Notes: Four steps monolithically with cap.



ELEVATION



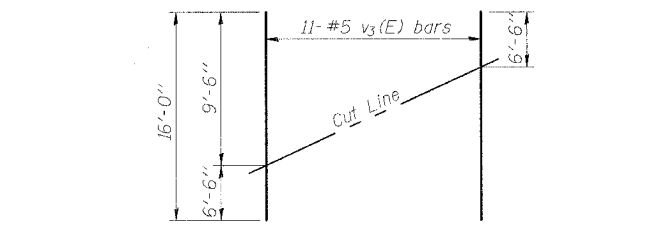
SEC. THRU ABUT.

PILE DATA

Type: HP12x74
 Nominal Required Bearing: 589 kips
 Allowable Resistance Available: 196 kips
 Est. Length: 50 ft.
 No. Production Piles: 5
 No. Test Piles: 1

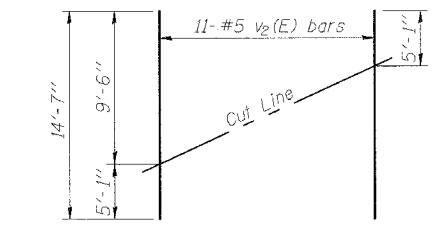
MIN. BAR LAPS

#8 Bar - 4'-6"



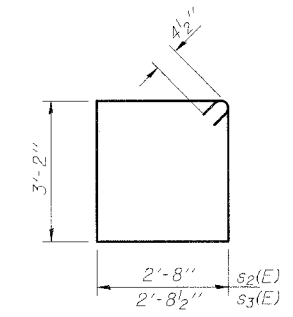
FIELD CUTTING DIAGRAM - EAST WING

Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.

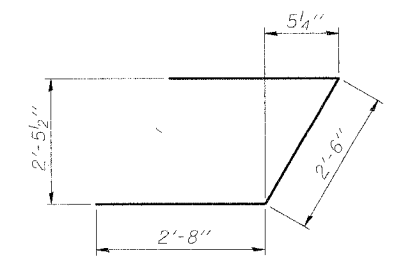


FIELD CUTTING DIAGRAM - WEST WING

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



BARS s2(E) & s3(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#8	14'-4"	—
h1(E)	36	#6	13'-6"	—
p(E)	16	#8	21'-2"	—
p1(E)	4	#8	15'-0"	—
s2(E)	32	#4	12'-5"	□
s3(E)	2	#4	12'-6"	□
u(E)	8	#6	7'-10"	∩
u1(E)	16	#5	7'-8"	∩
v1(E)	69	#5	4'-4"	—
v2(E)	11	#5	14'-1"	—
v3(E)	11	#5	16'-0"	—
Structure Excavation		Cu. Yd.	172	
Concrete Structures		Cu. Yd.	22	
Reinforcement Bars, Epoxy Coated		Pound	3880	
Furnishing Steel Piles, HP12x74		Foot	250	
Driving Steel Piles		Foot	250	
Test Pile, HP12x74		Each	1	
Concrete Encasement		Cu. Yd.	2.10	

For details of piles and Concrete Encasement, see sheet 19 of 23.

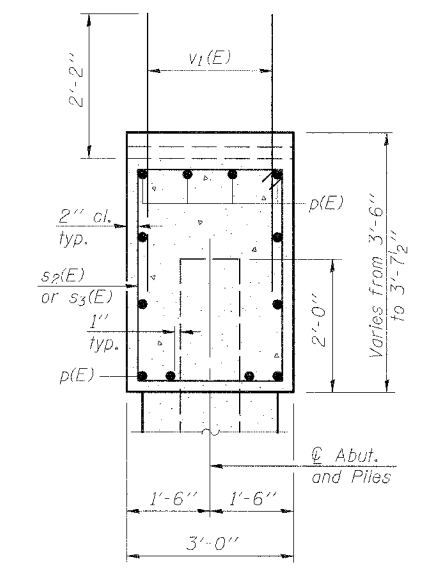
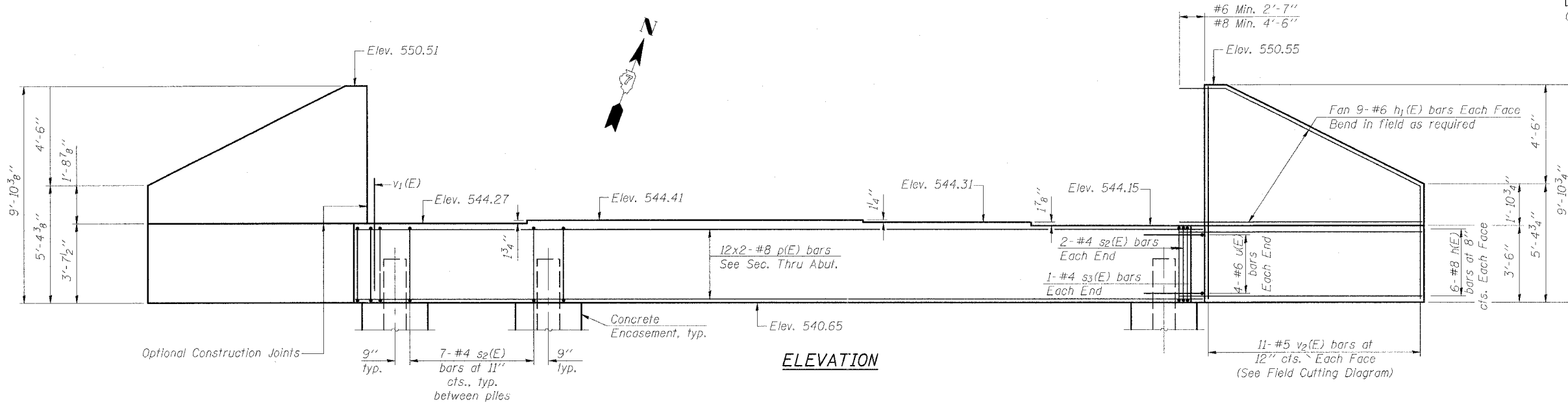
SOUTH ABUTMENT
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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 DATE 03/29/07

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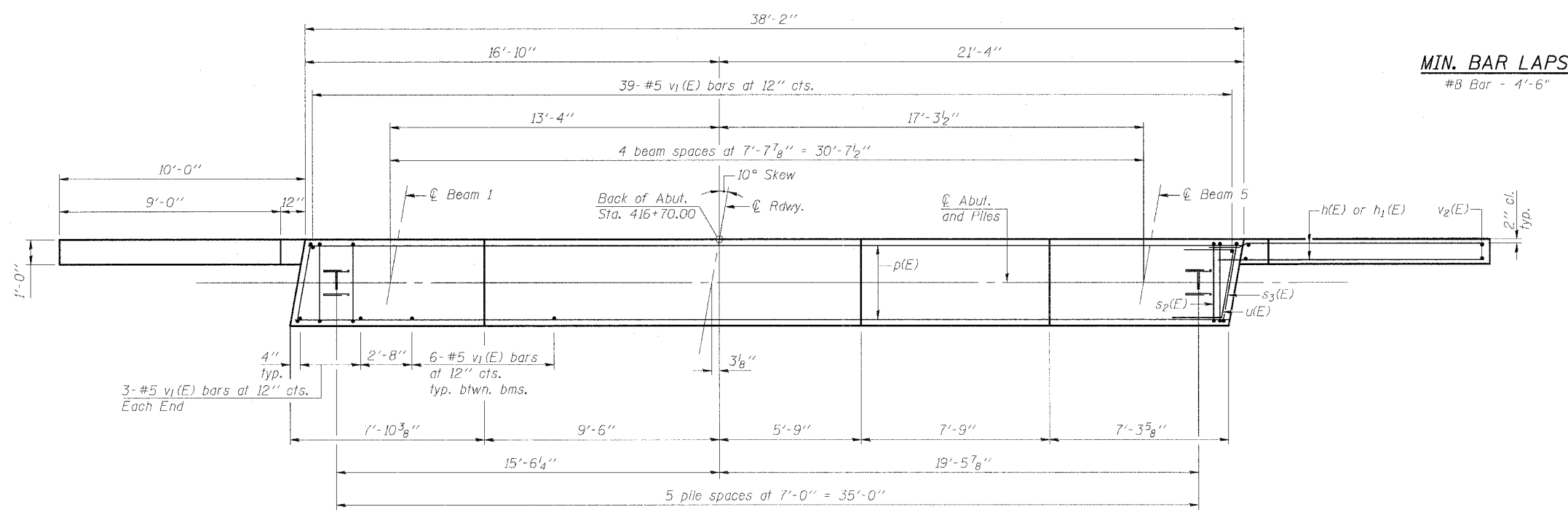
Notes: Four steps monolithically with cap.

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. 17
	*	EFFINGHAM	95	55
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	23 SHEETS
Contract #95503			* 03-00098-00-BR	



ELEVATION

SEC. THRU ABUT.



MIN. BAR LAPS
#8 Bar - 4'-6"

PLAN

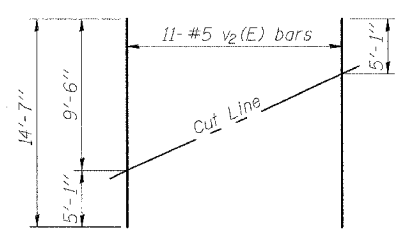
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#8	14'-4"	—
h1(E)	36	#6	13'-6"	—
p(E)	16	#8	21'-2"	—
s2(E)	32	#4	12'-5"	□
s3(E)	2	#4	12'-6"	□
u(E)	8	#6	7'-10"	—
v1(E)	69	#5	4'-4"	—
v2(E)	22	#5	14'-7"	—
Structure Excavation		Cu. Yd.	170	
Concrete Structures		Cu. Yd.	21.3	
Reinforcement Bars, Epoxy Coated		Pound	3580	
Furnishing Steel Piles, HP12x74		Foot	340	
Driving Steel Piles		Foot	340	
Test Pile, HP12x74		Each	1	
Concrete Encasement		Cu. Yd.	2.10	

For details of piles and Concrete Encasement, see sheet 19 of 23.

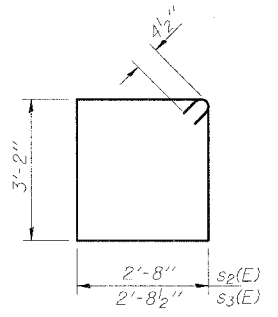
PILE DATA

Type: HP12x74
Nominal Required Bearing: 589 kips
Allowable Resistance Available: 196 kips
Est. Length: 68 ft.
No. Production Piles: 5
No. Test Piles: 1

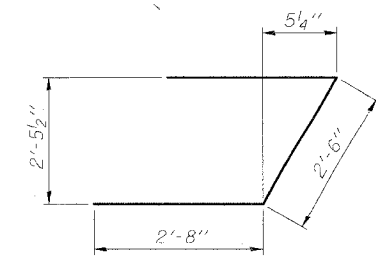


FIELD CUTTING DIAGRAM

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



BARS s2(E) & s3(E)



BAR u(E)

NORTH ABUTMENT
OUTER BELT WEST OVER TRIBUTARY
TO LITTLE WABASH RIVER
LOCAL ROAD SEC. 03-00098-00-BR
EFFINGHAM COUNTY
STATION 415+66.00
STRUCTURE NO. 025-6009

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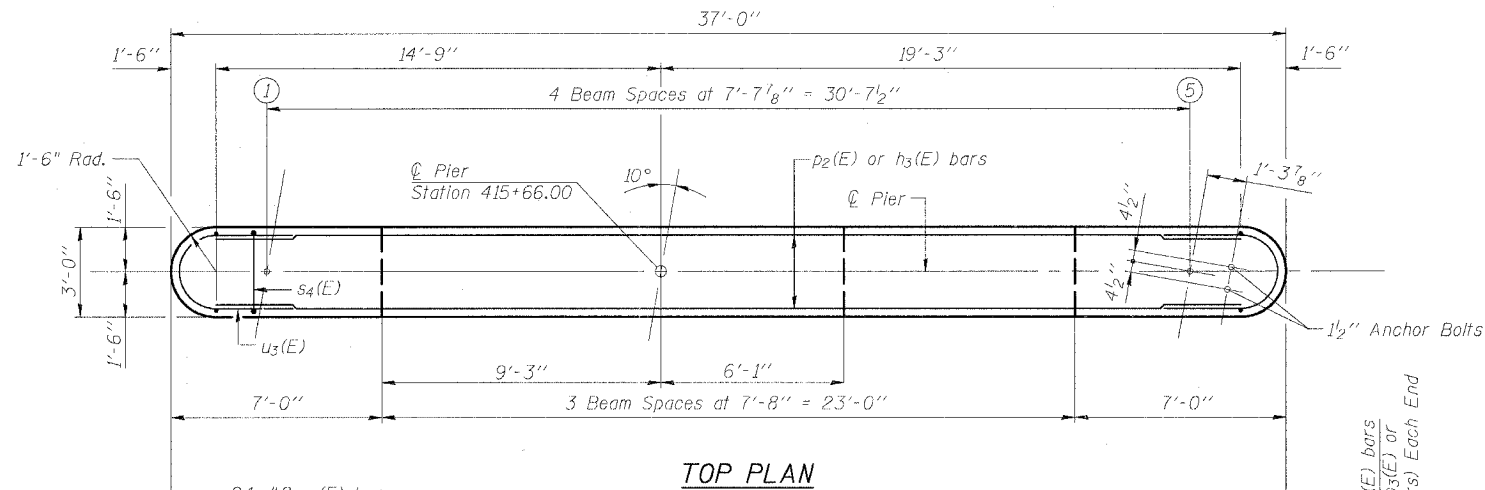
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 DRAWN: DDP 07/27/07
 REVIEWED: JUT 07/15/07

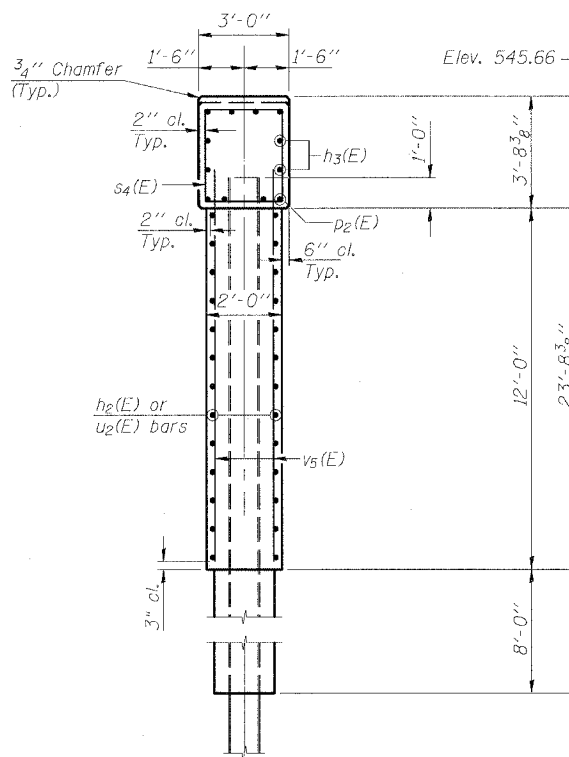
Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 19 of 23.

MIN. BAR LAPS

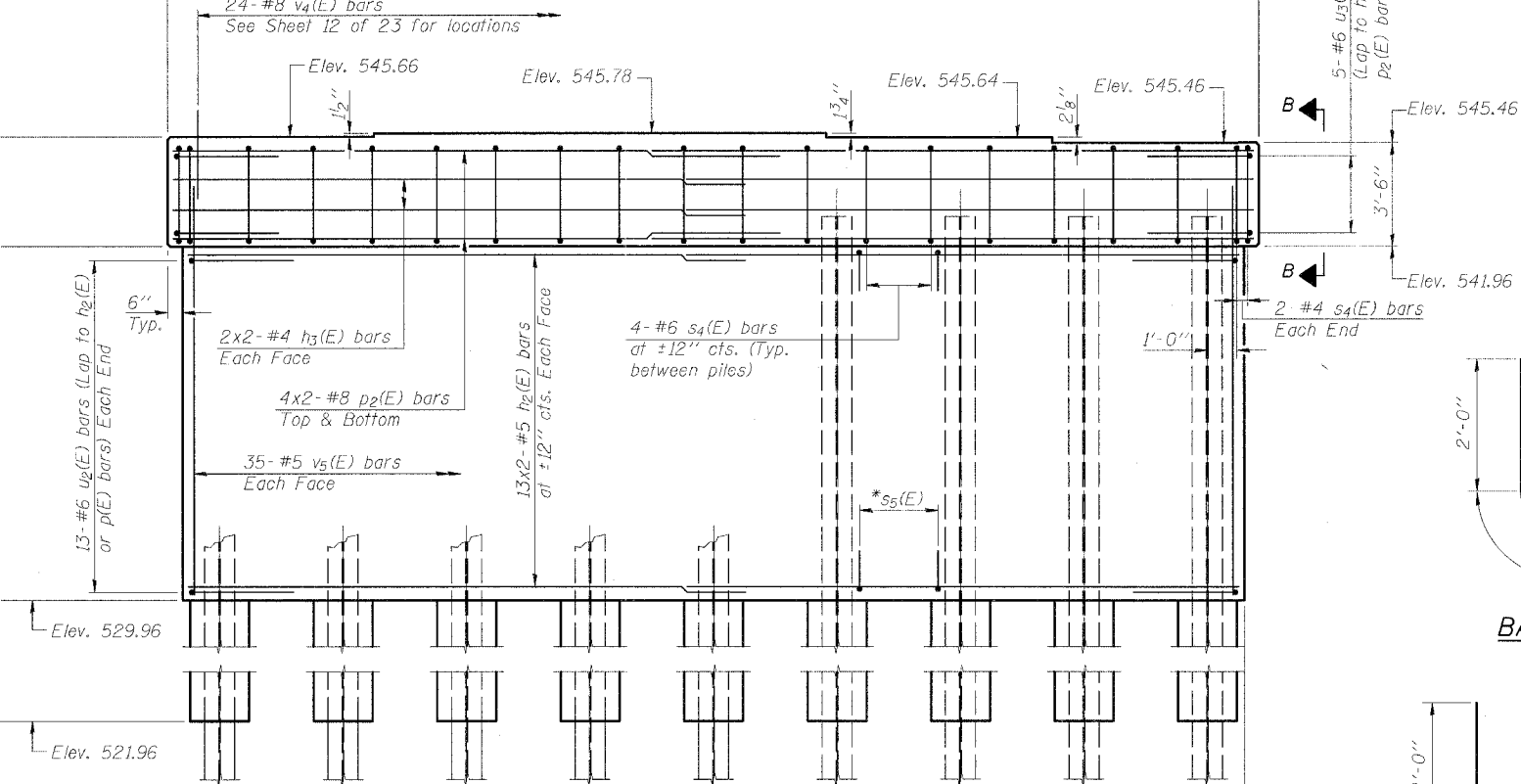
- #4 Bar - 1'-4"
- #5 Bar - 1'-8"
- #6 Bar - 2'-0"
- #8 Bar - 3'-5"



TOP PLAN



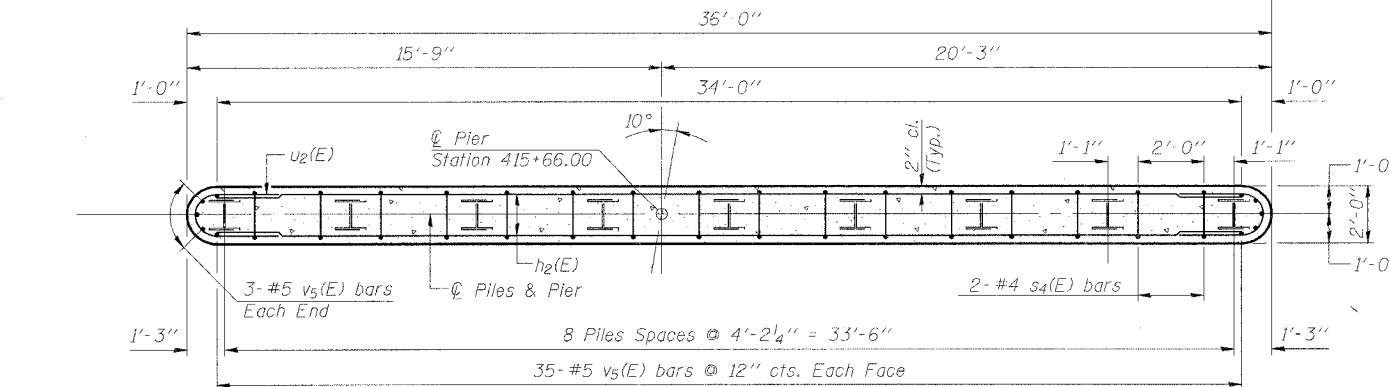
END VIEW



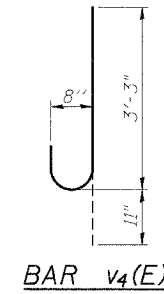
ELEVATION
(Looking North Upstation)

PILE DATA

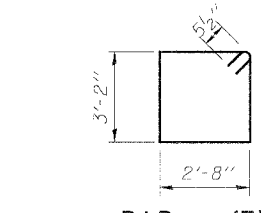
Type: HP12x84
 Nominal Required Bearing: 664 kips
 Allowable Resistance Available: 210 kips
 Est. Length: 68 ft.
 No. Production Piles: 8
 No. Test Piles: 1



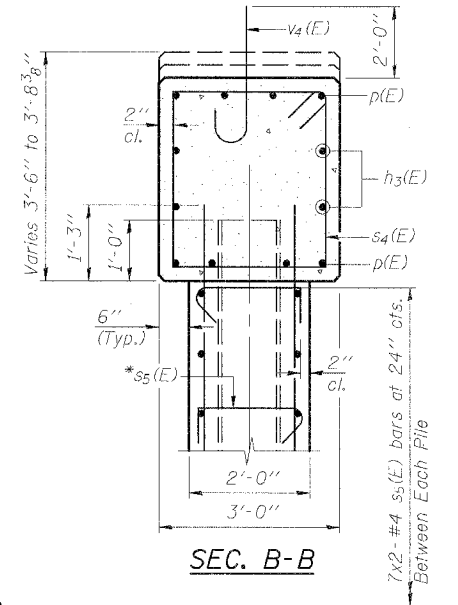
PILE LAYOUT & ENCASEMENT WALL PLAN



BAR v4(E)



BAR s4(E)

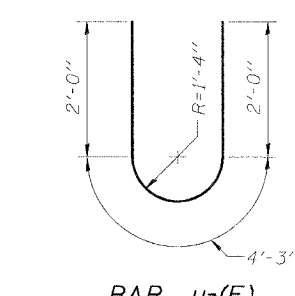


SEC. B-B

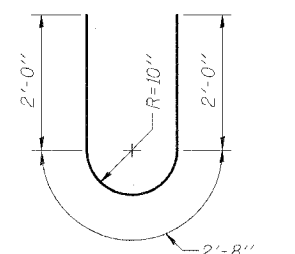
BILL OF MATERIAL

Bar No.	Size	Length	Shape
h2(E)	#5	17'-10"	—
h3(E)	#4	17'-8"	—
p2(E)	#8	18'-9"	—
s4(E)	#6	12'-7"	□
s5(E)	#4	2'-9"	┌
u2(E)	#6	6'-8"	U
u3(E)	#6	8'-3"	U
v4(E)	#8	4'-2"	U
v5(E)	#5	13'-0"	—
Structure Excavation	Cu. Yd.	27	
Concrete Structures	Cu. Yd.	46.6	
Reinforcement Bars, Epoxy Coated	Pound	4030	
Furnishing Steel Piles HP12x84	Foot	544	
Driving Steel Piles	Foot	544	
Test Piles Steel, HP12x84	Each	1	
Concrete Encasement	Cu. Yd.	8.4	

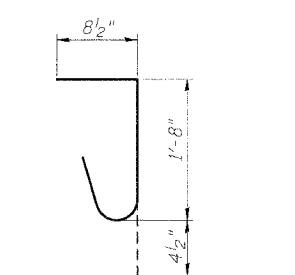
* Alternate placement of 90° hooks in each face of encasement in each vertical line of s5(E) bars.



BAR u3(E)



BAR u2(E)



BAR s5(E)

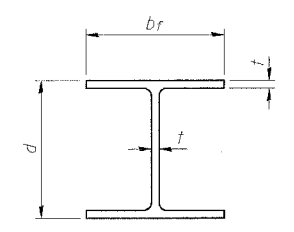
PIER
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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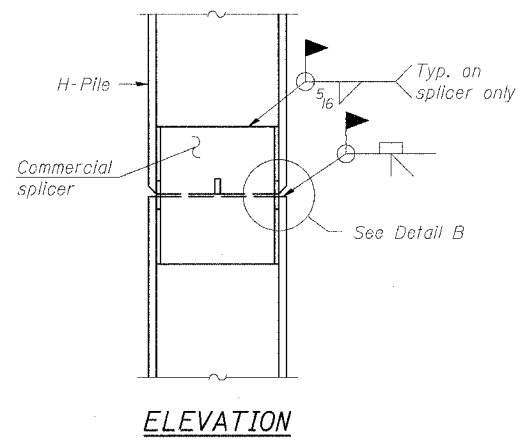
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 REVIEWED: JUT 01/15/07

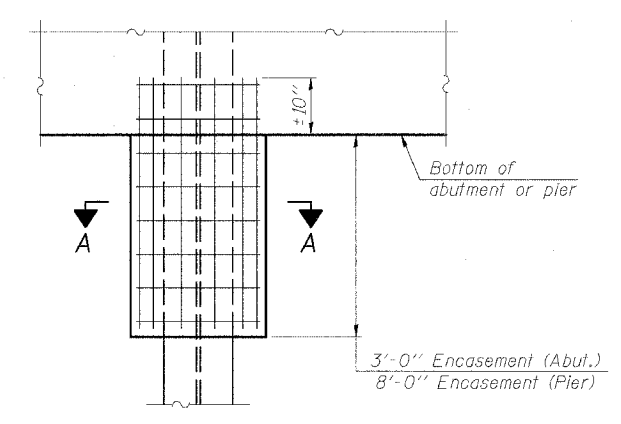


STEEL PILE TABLE

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

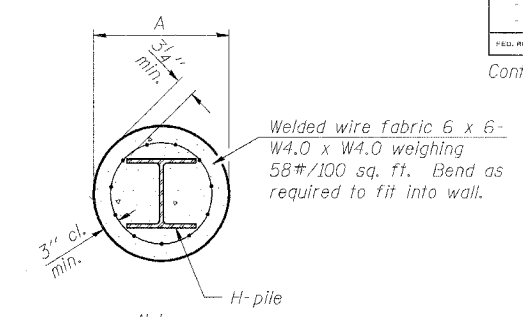


ELEVATION



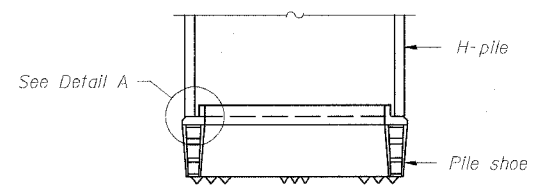
ELEVATION

PILE ENCASEMENT

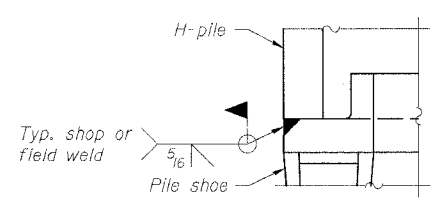


SECTION A-A

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

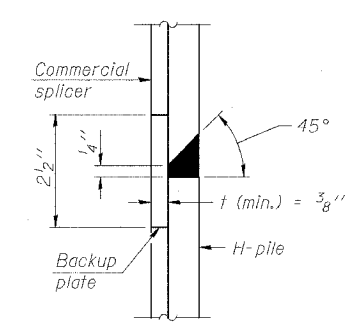


ELEVATION

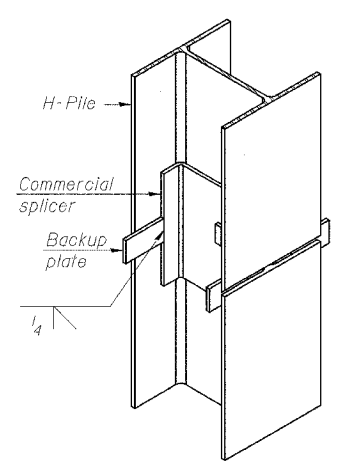


DETAIL A

H-PILE SHOE ATTACHMENT

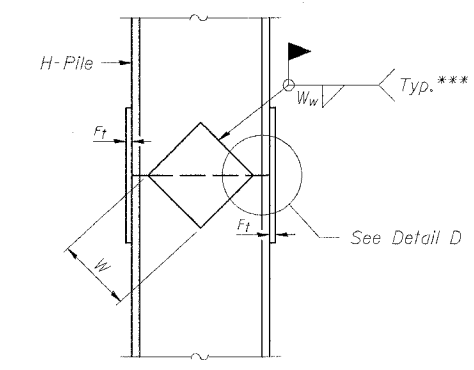


DETAIL "B"

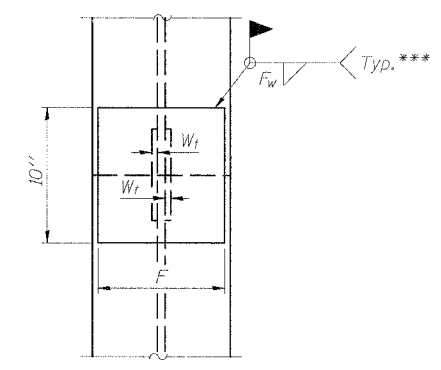


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

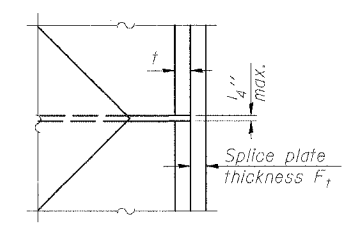


ELEVATION



END VIEW

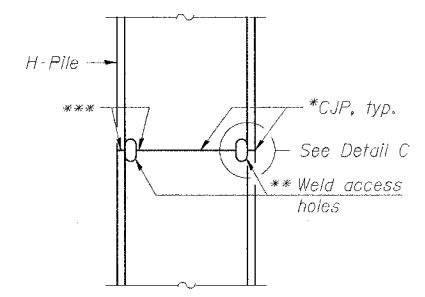
Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/2"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/2"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 1/2"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/2"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 1/2"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 1/2"	1/2"
x63	10"	5/8"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



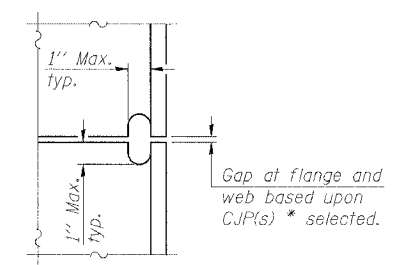
DETAIL D

WELDED PLATE FIELD SPLICE

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



ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE

- * Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.
- ** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.
- *** Interrupt welds 1/4" from end of each pile.

STEEL H-PILES
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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 DRAWN: DAP 01/12/07
 REVIEWED: JST 01/15/07

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

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

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**

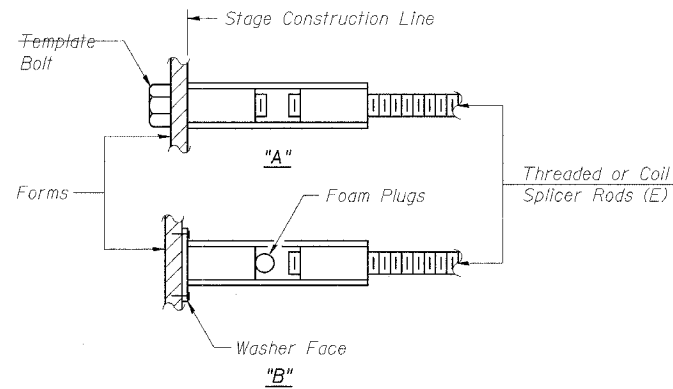
Wire Connector



WELDED SECTIONS

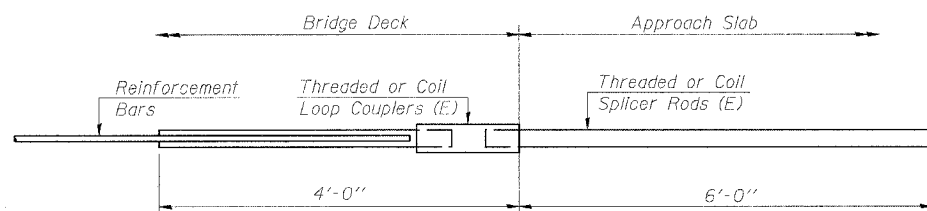
BAR SPLICER ASSEMBLY ALTERNATIVES

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



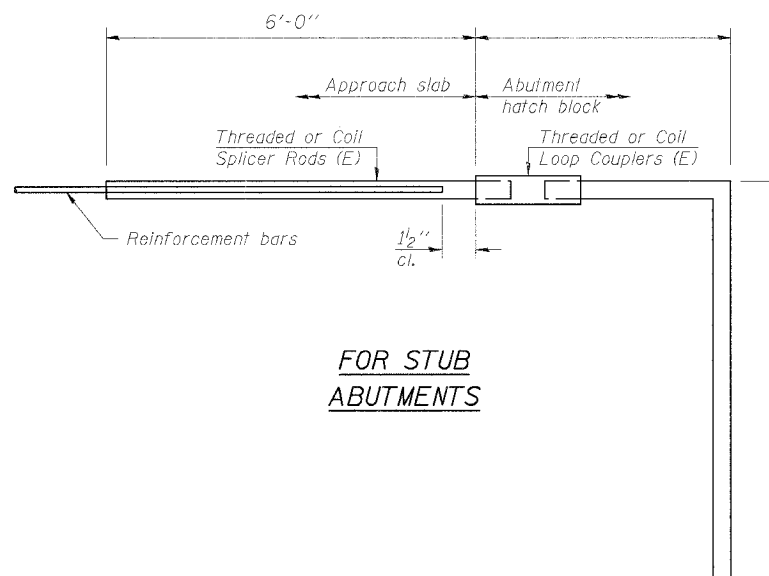
INSTALLATION AND SETTING METHODS

"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.



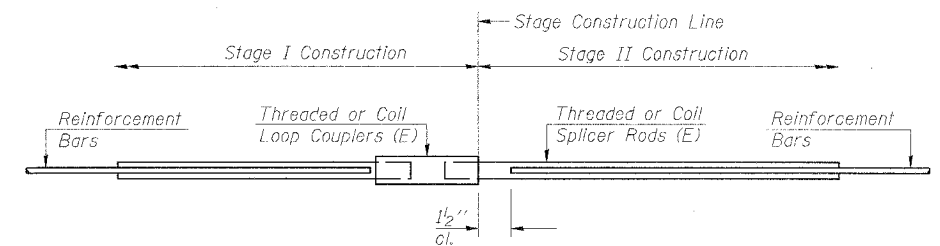
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 62



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



STANDARD

Bar Size	No. Assemblies Required	Location
	0	

BAR SPLICER ASSEMBLY DETAILS
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-0098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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 03/29/07

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 DRAWN: DNP 01/27/07
 REVIEWED: JUT 01/15/07



SOIL BORING LOG

Page 1 of 1

Date 12/06

ROUTE Outer Belt West DESCRIPTION Outer Belt West Over Tributary to Little Wabash River LOGGED BY RGC

SECTION 03-00098-00-BR LOCATION SW 1/4, SEC. 25, TWP. 8 N, RING. 6 E

COUNTY Effingham DRILLING METHOD 3-3/4" HSA HAMMER TYPE auto

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D E P T H	B L O W S	U C S	M O D E	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	Penetration								
											(ft)	(ft)	(tsf)	(%)					
025-6009 415+66.00	B-07 413+98	2.00ft RL	581.40																
Dark brown CLAYEY TOPSOIL 589.90																			
Very stiff, Yellow brown fine SAND SILTY CLAY, trace small gravel																			
				10							7								
				20							9	6.2	11.0						
				21							14	S							
											5								
											6	7.9	10.6						
											9	S							
				5							5								
				8							7	8.5	11.2						
				14							10	S							
569.40																			
Hard, brown, fine SANDY CLAYEY SILT, trace coarse sand and some large gravel																			
				18							4								
				31		11.3	7.8				7	9.6	10.4						
				39		B					10	B							
563.40																			
Hard, gray, fine SANDY CLAYEY SILT, trace coarse sand and small gravel																			
				14							5								
				21		12.0	8.8				8	8.2	9.9						
				32		S					10	BS							
541.40																			
End of Boring																			

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

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 2

Date 12/06

ROUTE Outer Belt West DESCRIPTION Outer Belt West Over Tributary to Little Wabash River LOGGED BY RGC

SECTION 03-00098-00-BR LOCATION SW 1/4, SEC. 25, TWP. 8 N, RING. 6 E

COUNTY Effingham DRILLING METHOD 3-3/4" HSA HAMMER TYPE auto

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D E P T H	B L O W S	U C S	M O D E	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	Penetration								
											(ft)	(ft)	(tsf)	(%)					
025-6009 415+66.00	B-08 414+98	53.00ft Lt.	528.00																
Brown SILTY CLAY, trace sand and gravel (FILL)																			
				7							4								
				18		13.2	9.3				5	5.2	14.9						
				20		S					12	B							
524.50																			
Hard, gray fine SANDY CLAYEY SILT, trace to some coarse sand and small gravel																			
				7							9								
				17		11.6	9.6				17	3.9	7.9						
				19		S					21	B							
500.00																			
Very stiff, gray fine SANDY SILT, trace clay, some coarse sand and small gravel																			
				9							4								
				17		3.9	7.9				5	2.7	16.3						
				21		B					8	B							
478.00																			
End of Boring																			
				4							4								
				8		9.5	11.1				5	3.7	16.9						
				11		S					7	B							
482.00																			
Very stiff, gray fine SANDY SILTY CLAY, trace coarse sand and small gravel																			
				5							3								
				8		8.7	10.9				4	3.5	16.9						
				15		B					6	B							
40																			

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

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

Date 12/06

ROUTE Outer Belt West DESCRIPTION Outer Belt West Over Tributary to Little Wabash River LOGGED BY RGC

SECTION 03-00098-00-BR LOCATION SW 1/4, SEC. 25, TWP. 8 N, RING. 6 E

COUNTY Effingham DRILLING METHOD 3-3/4" HSA HAMMER TYPE auto

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D E P T H	B L O W S	U C S	M O D E	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	Penetration								
											(ft)	(ft)	(tsf)	(%)					
025-6009 415+66.00	B-08 414+98	53.00ft Lt.	528.00																
Very stiff, gray fine SANDY SILTY CLAY, trace coarse sand and small gravel (continued)																			
				6							9	4.9	14.1						
				11		B					11	B							
478.00																			
End of Boring																			

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

BBS, from 137 (Rev. 8-99)

03/29/2007 10:35 AM
 A:\05\065\05\207\AC\03\Struct\Mod\Final\plan2.dgn
 LAYOUT 12/20/07
 DRAWN DAP 07/12/07
 REVIEWED JUT 07/15/07

BORINGS (SHEET 1)
OUTER BELT WEST OVER TRIBUTARY
TO LITTLE WABASH RIVER
LOCAL ROAD SEC. 03-00098-00-BR
EFFINGHAM COUNTY
STATION 415+66.00
STRUCTURE NO. 025-6009

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JOB NO. 05S2071
 DATE 03/29/07



SOIL BORING LOG

Page 1 of 1

Date 1306

ROUTE Outer Belt West DESCRIPTION Outer Belt West Over Tributary to Little Wabash River LOGGED BY RGC
 SECTION 03-00098-00-BR LOCATION SW 14, SEC. 25, TWP. 8 N, RNG. 6 E
 COUNTY Effingham DRILLING METHOD 3-3/4" HSA HAMMER TYPE auto

STRUCT. NO.	Station	DEPTH (ft)	SOIL TYPE	DRILLING METHOD	HAMMER TYPE	UNCONFINED COMPRESSIVE STRENGTH (UCS) (psi)	SPT (N)
025-6009	415+66.00		Dark brown CLAYEY TOPSOIL	3-3/4" HSA	auto		
		5					
		5					12.2
		8					
		524.00	Hard, gray fine SANDY SILT, some clay, coarse sand and small gravel				
		4					
		10					10.9
		10					
		498.00	Very stiff, greenish gray and gray fine SANDY SILTY CLAY, trace small gravel				
		7					
		14					11.1
		16					BS
		493.50	Hard, gray, fine SANDY CLAYEY SILT, trace coarse sand and small gravel				
		5					
		11					5.4
		13					BS

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
 BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 2

Date 1306

ROUTE Outer Belt West DESCRIPTION Outer Belt West Over Tributary to Little Wabash River LOGGED BY RGC
 SECTION 03-00098-00-BR LOCATION SW 14, SEC. 25, TWP. 8 N, RNG. 6 E
 COUNTY Effingham DRILLING METHOD 3-3/4" HSA HAMMER TYPE auto

STRUCT. NO.	Station	DEPTH (ft)	SOIL TYPE	DRILLING METHOD	HAMMER TYPE	UNCONFINED COMPRESSIVE STRENGTH (UCS) (psi)	SPT (N)
025-6009	415+66.00		Dark brown CLAYEY TOPSOIL	3-3/4" HSA	auto		
		4					
		7					9.6
		7					
		524.50	Hard, gray, fine SANDY CLAYEY SILT, trace coarse sand and small gravel				
		7					
		12					11.0
		14					
		498.00	Very stiff, greenish gray and gray fine SANDY SILTY CLAY, trace small gravel				
		5					
		7					7.0
		12					B
		493.50	Hard, gray, fine SANDY CLAYEY SILT, trace coarse sand and small gravel				
		5					
		8					9.7
		11					B

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
 BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

Date 1306

ROUTE Outer Belt West DESCRIPTION Outer Belt West Over Tributary to Little Wabash River LOGGED BY RGC
 SECTION 03-00098-00-BR LOCATION SW 14, SEC. 25, TWP. 8 N, RNG. 6 E
 COUNTY Effingham DRILLING METHOD 3-3/4" HSA HAMMER TYPE auto

STRUCT. NO.	Station	DEPTH (ft)	SOIL TYPE	DRILLING METHOD	HAMMER TYPE	UNCONFINED COMPRESSIVE STRENGTH (UCS) (psi)	SPT (N)
025-6009	415+66.00		Hard, gray, fine SANDY CLAYEY SILT, trace coarse sand and small gravel (continued)	3-3/4" HSA	auto		
		3					
		5					5.0
		8					BS
		8					
		492.00					
		3					
		4					3.1
		7					BS
		493.50					
		3					
		6					5.6
		8					BS
		492.00					
		3					
		5					4.5
		9					BS

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
 BBS, from 137 (Rev. 8-99)

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LAYOUT	MM	12/20/01
DRAWN	DJP	07/12/01
REVIEWED	JJT	07/15/01

BORINGS (SHEET 2)
 OUTER BELT WEST OVER TRIBUTARY
 TO LITTLE WABASH RIVER
 LOCAL ROAD SEC. 03-00098-00-BR
 EFFINGHAM COUNTY
 STATION 415+66.00
 STRUCTURE NO. 025-6009

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HANSON

JOB NO.
05S2071
DATE
03/29/07



Illinois Department of Transportation
Division of Highways
Hanson Professional Services Inc.

SOIL BORING LOG

Page 1 of 1

Date 12/06

ROUTE Outer Belt West DESCRIPTION Outer Belt West Over Tributary to Little Wabash River LOGGED BY RGC

SECTION 03-00098-00-BR LOCATION SW 14, SEC. 25, TWP. 8 N, RNG. 6 E

COUNTY Effingham DRILLING METHOD 3-34" HSA HAMMER TYPE auto

STRUCT. NO.	Station	DESCRIPTION	DEPTH (ft)	BL (ft)	US (ft)	MS (ft)	Groundwater Elev.:
025-6009	415+66.00						Surface Water Elev. _____ ft
							Stream Bed Elev. _____ ft
B-11	417+50						Groundwater Elev.:
							First Encounter 528.4 ft ▼
							Upon Completion 528.4 ft ▼
							After _____ Hrs. _____ ft
	533.40	Dark brown CLAYEY TOPSOIL					
	532.80	Very stiff, brown, fine SANDY CLAY	1				
			3	2.4	15.1		
			4	S			
	530.40	Brown and gray, fine to medium SANDY CLAYEY SILT					
					14.5		
					17.5		
					17.4		
					13.2		
	527.40	Loose, brown SILTY fine to medium SAND, some coarse sand and small gravel	4				
			3		15.9		
			4				
			2				
			1		17.6		
			0				
	522.40	Herd, gray, fine SANDY SILTY CLAY, trace coarse sand and small gravel	2				
			3	3.5	12.4		
			5	P			
			2				
			3	5.0	12.1		
			6	B			
	518.40	End of Boring					

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

BBS, from 137 (Rev. 8-99)

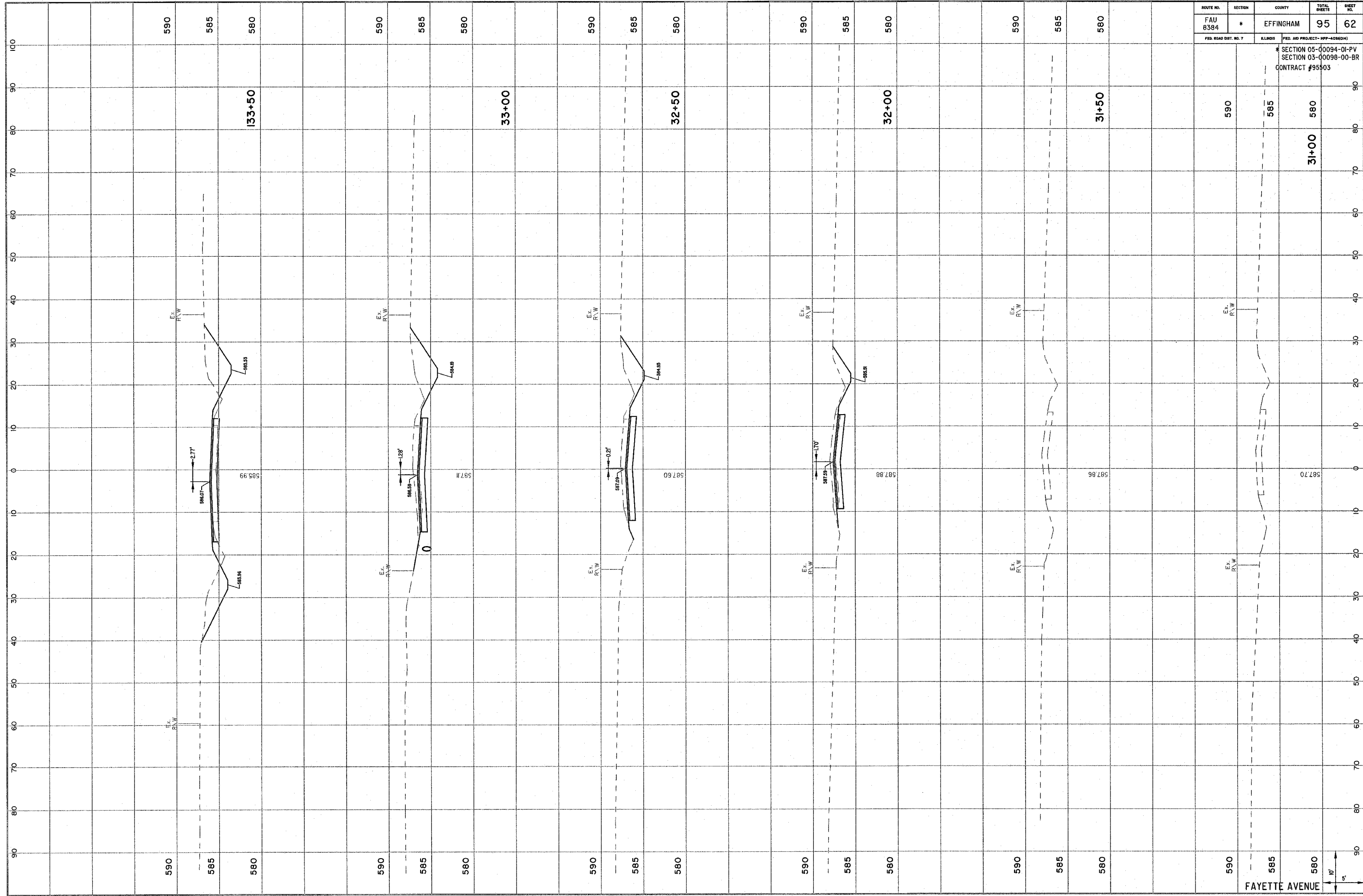
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LAYOUT: MMJ 12/29/07
DRAWN: DMP 01/12/07
REVIEWED: JUT 01/15/07

BORINGS (SHEET 3)
OUTER BELT WEST OVER TRIBUTARY
TO LITTLE WABASH RIVER
LOCAL ROAD SEC. 03-00098-00-BR
EFFINGHAM COUNTY
STATION 415+66.00
STRUCTURE NO. 025-6009

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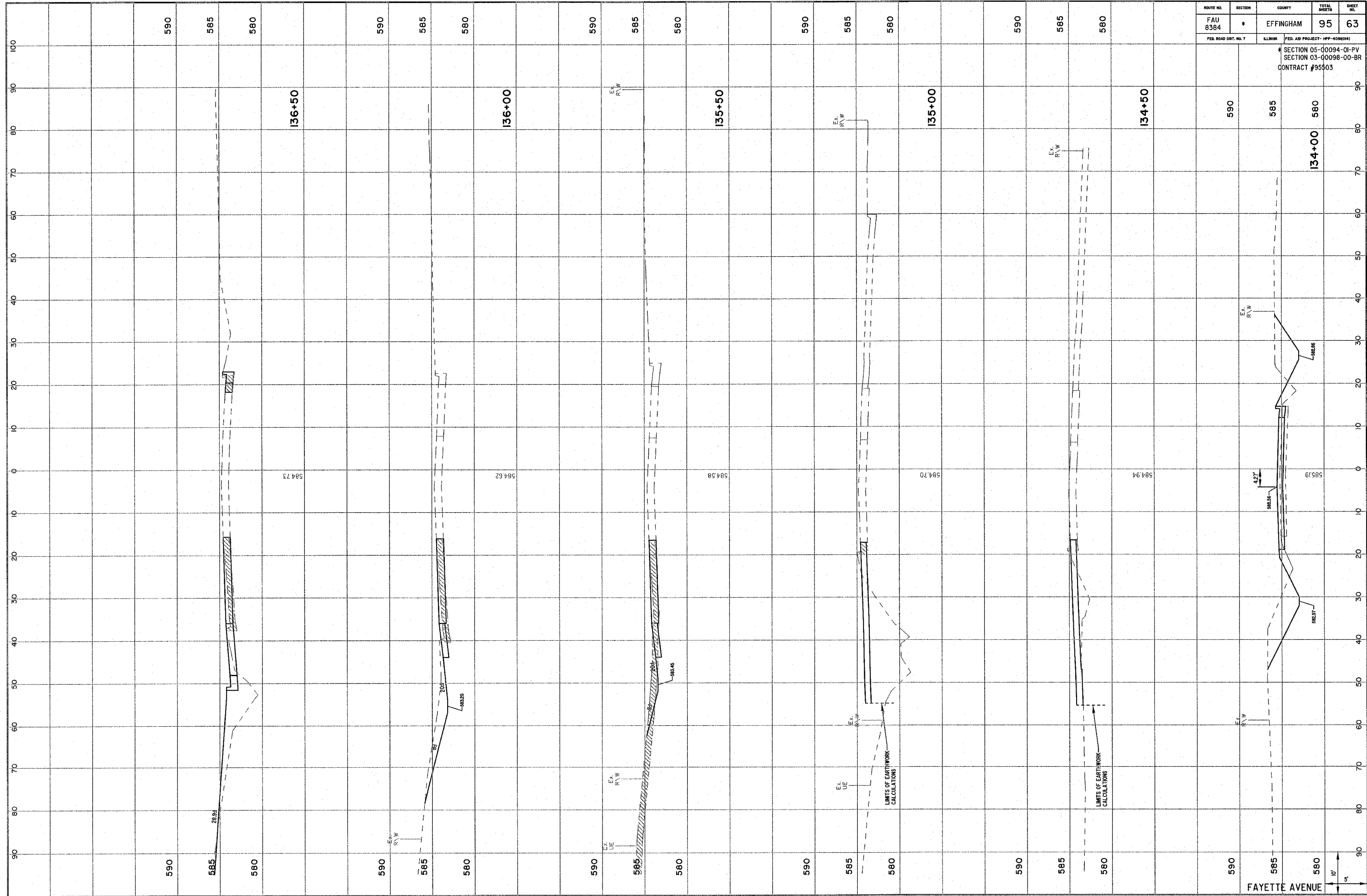
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DATE 03/29/07



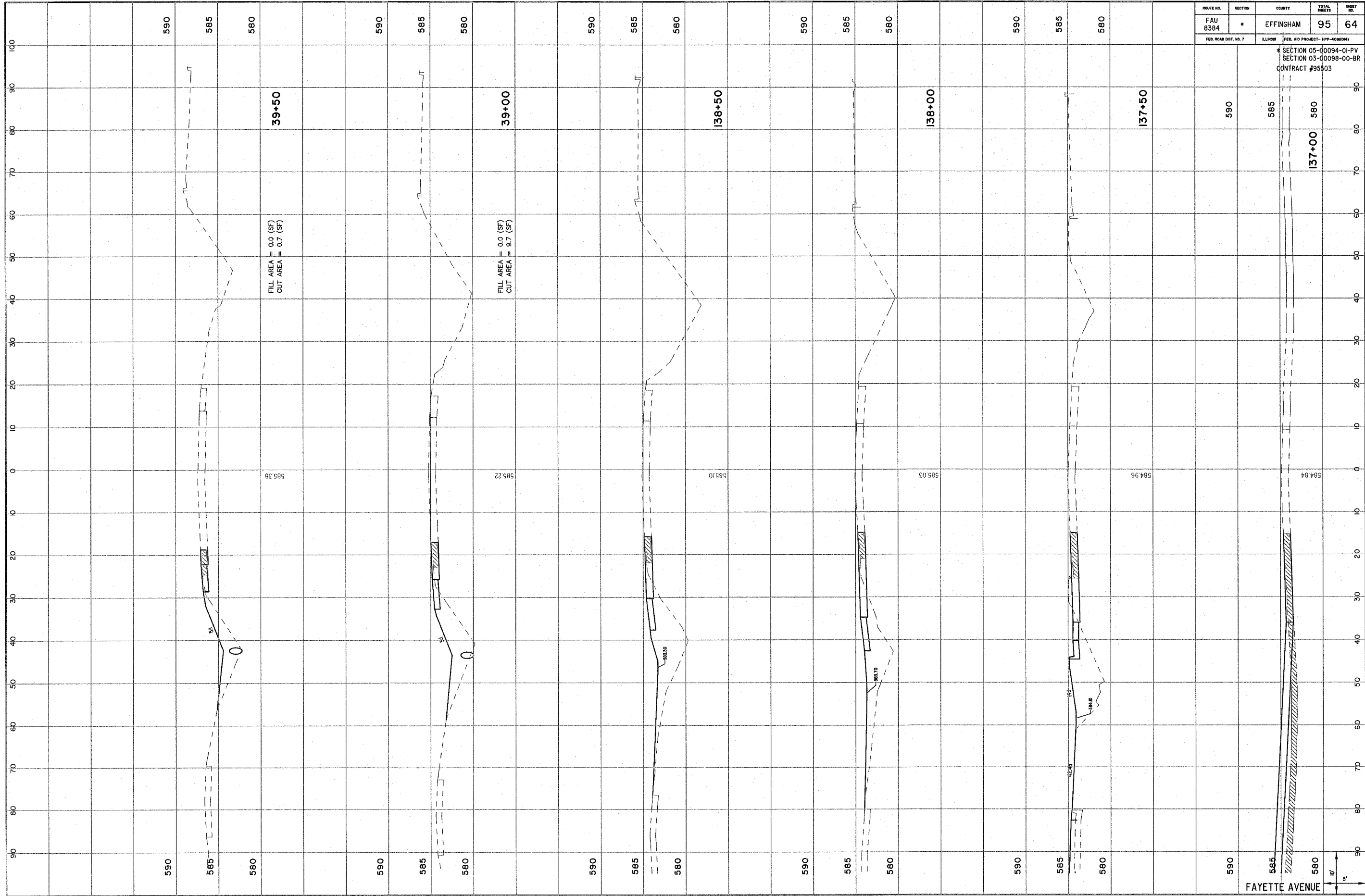
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	62

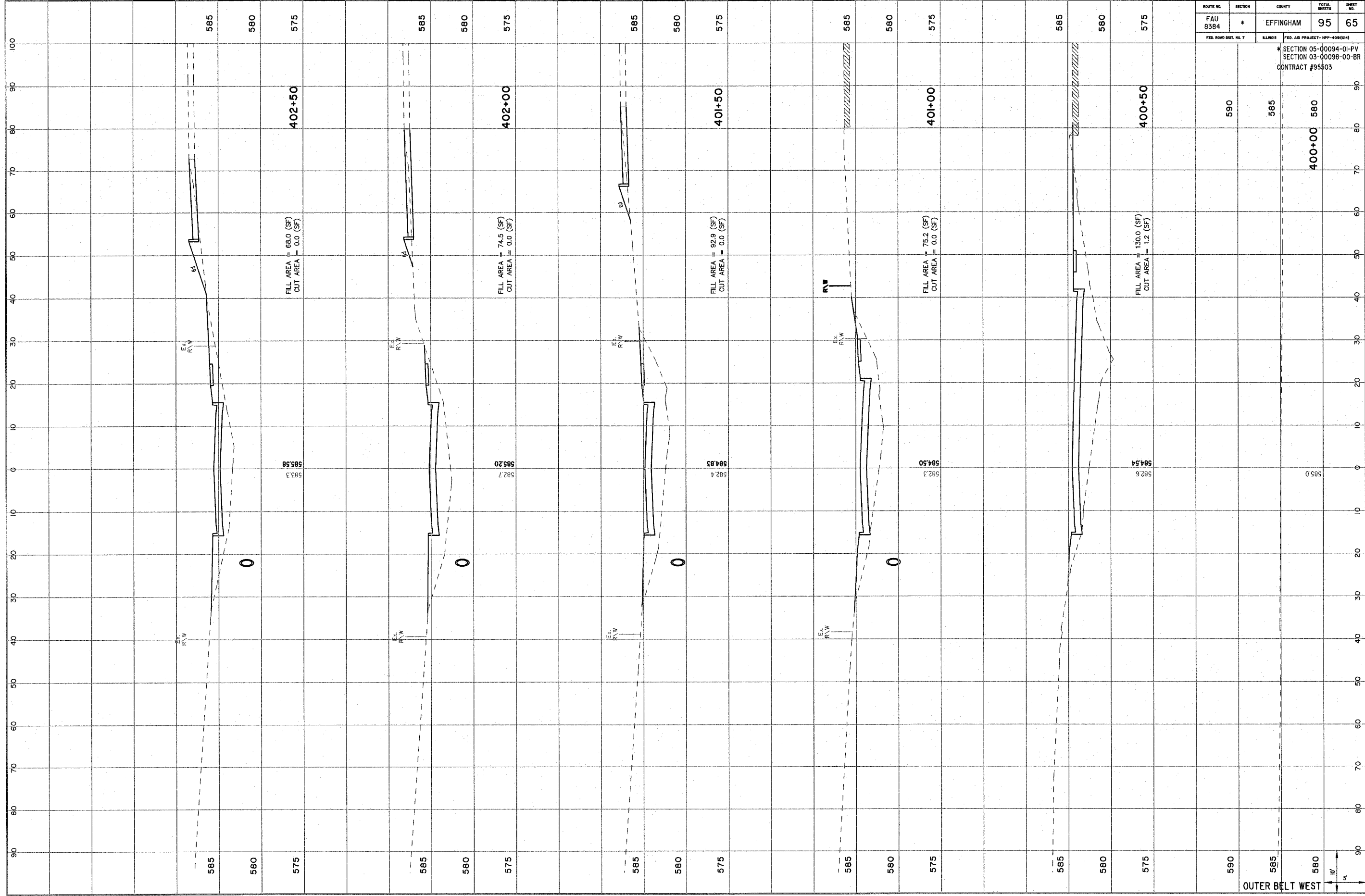
FED. ROAD DIST. NO. 7
 KLR005
 FED. AID PROJECT-NFF-4080043
 SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

FAYETTE AVENUE



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	63
FED. ROAD DIST. NO. 7		FED. AID PROJECT- HPF-4080041		
		SECTION 05-00094-01-PV		
		SECTION 03-00098-00-BR		
		CONTRACT #95503		



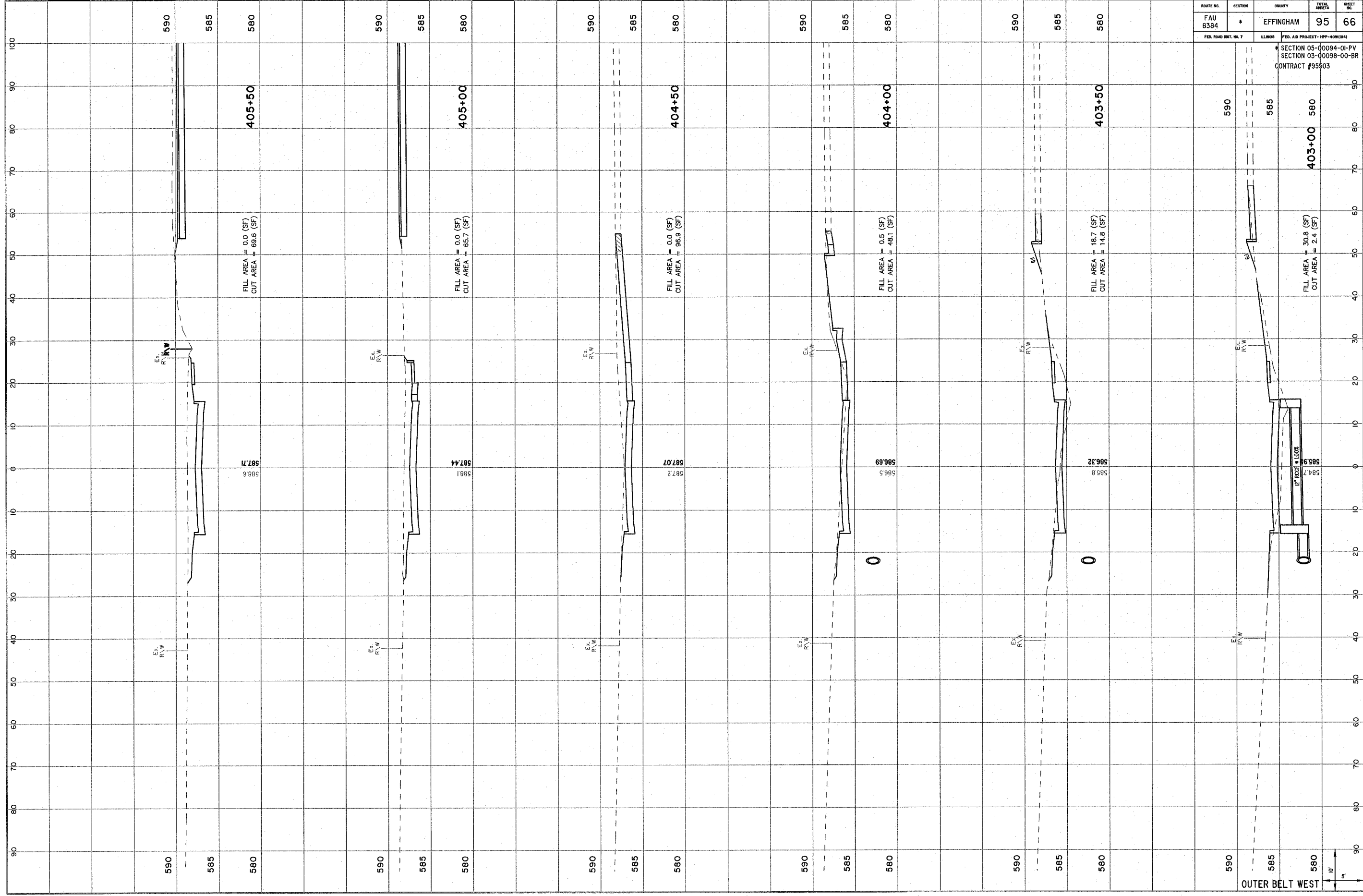


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	65

FED. ROAD DIST. NO. 7
 ALNOID
 FED. AID PROJECT-NP-409604
 SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

STATION	590	585	580	575
FILL AREA				
CUT AREA				
ELEVATION	590	585	580	575
STATIONING			400+00	400+50

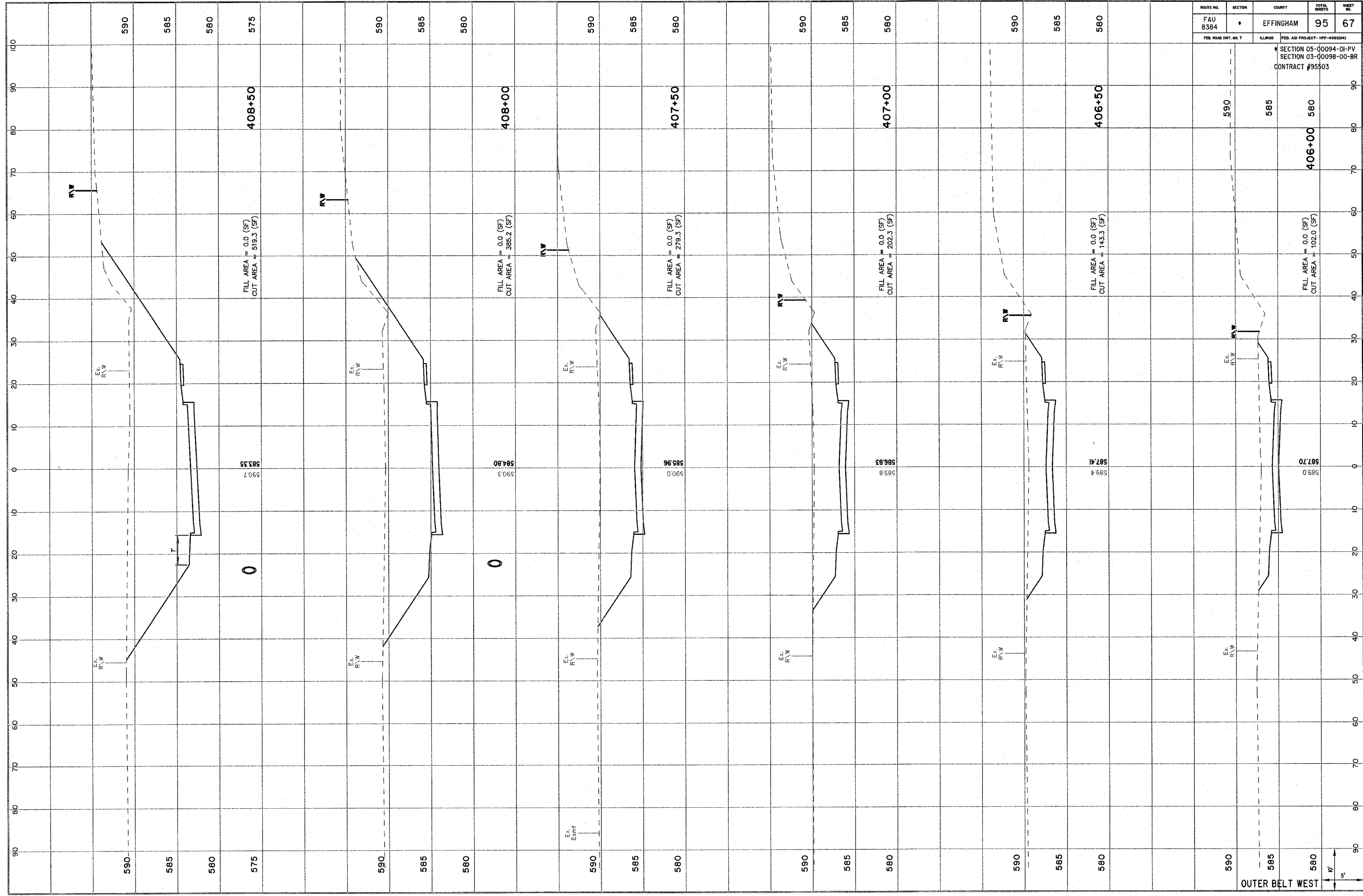
OUTER BELT WEST
 10'
 5'



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	66

FED. ROAD DIST. NO. 7
 E.L.N.O.R.
 FED. AID PROJECT-HP-40M(24)
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

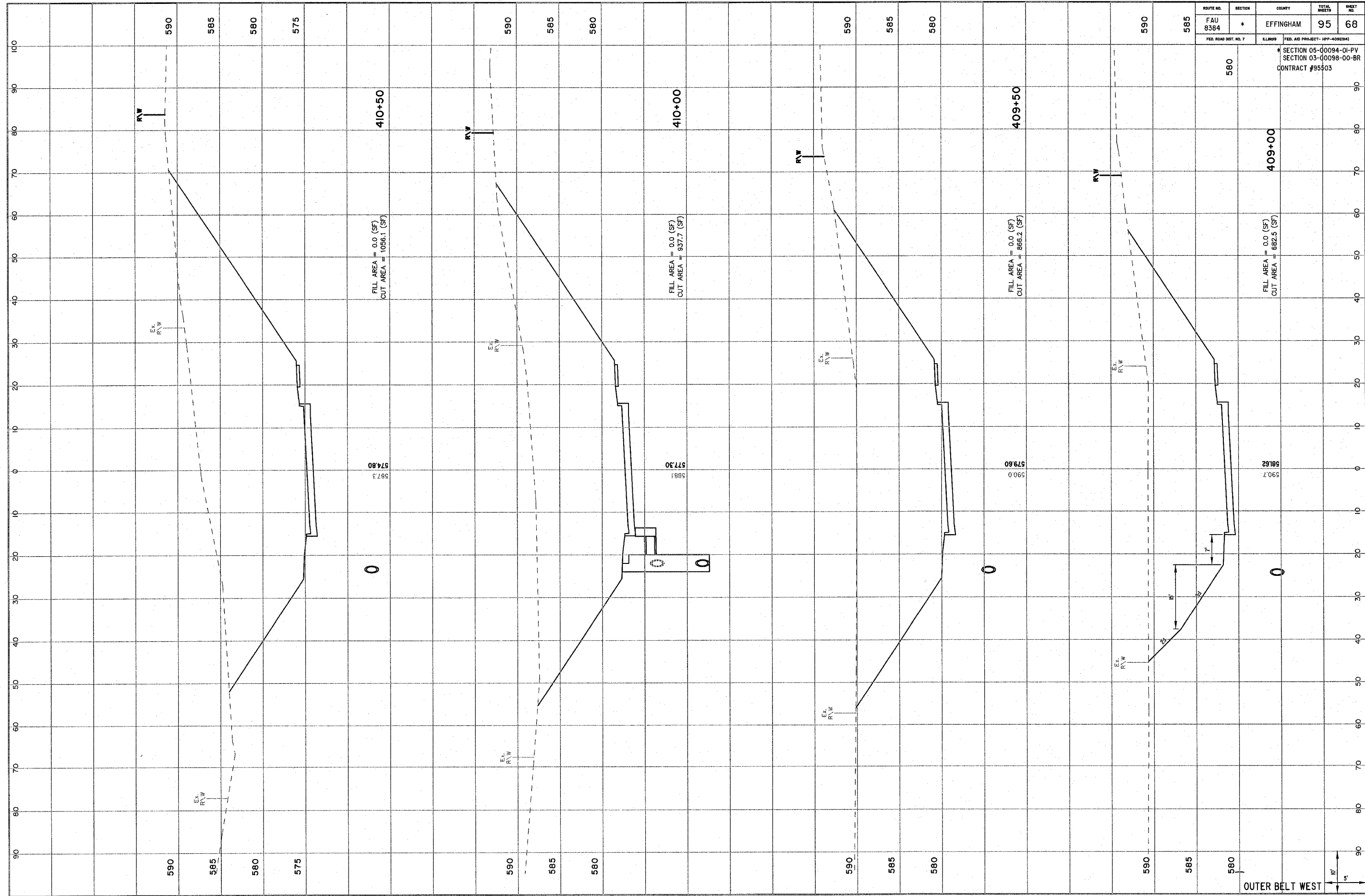
OUTER BELT WEST
 10'
 5'



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	67

FED. ROAD DIST. NO. 7
 ILLINOIS
 FED. AID PROJECT-HPY-408(04)
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

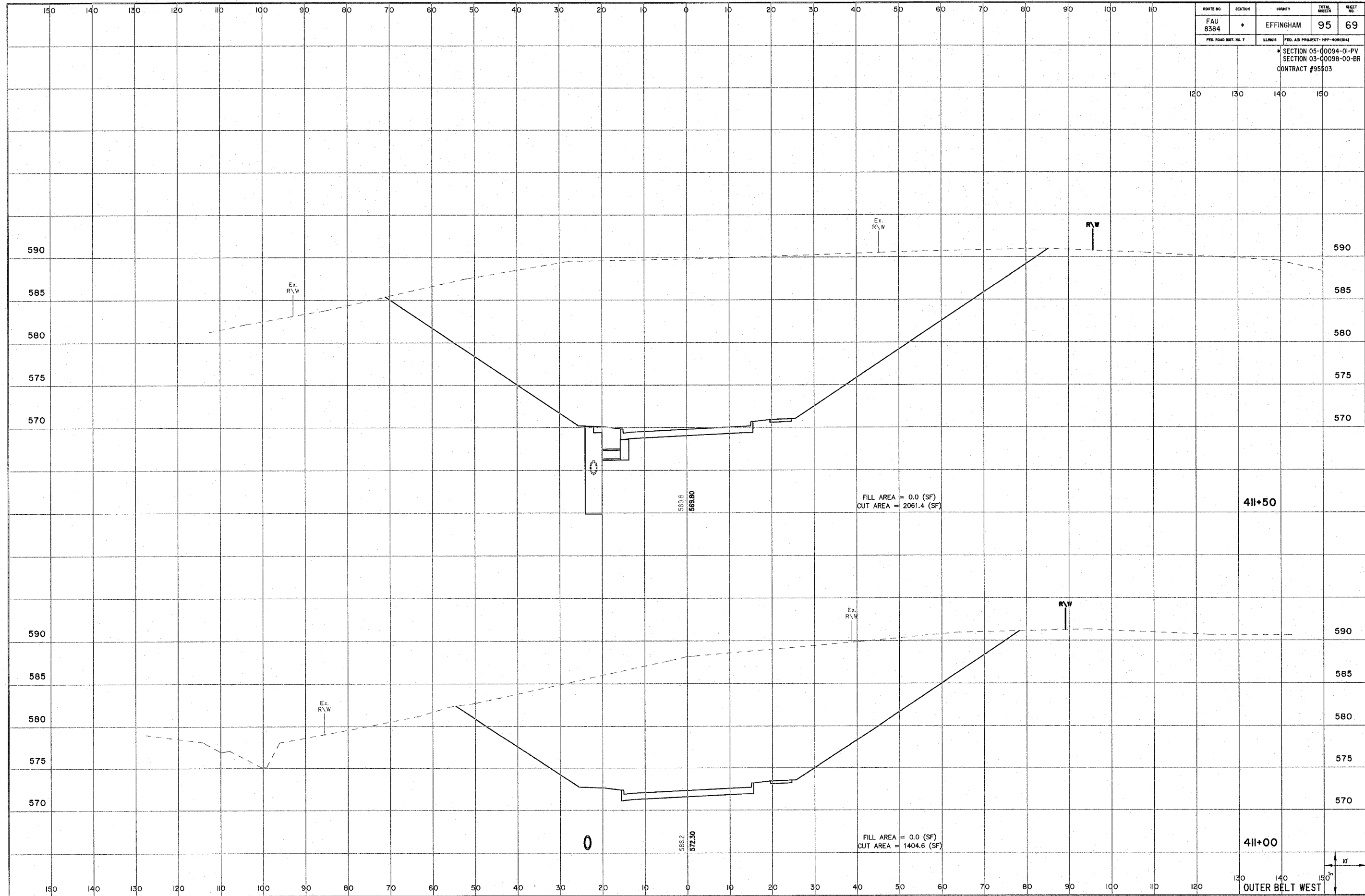
OUTER BELT WEST
 10'
 0'



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	68
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT- IHP-409(04)	

* SECTION 05-00094-01-PV
SECTION 03-00098-00-BR
CONTRACT #95503

OUTER BELT WEST



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	69

* SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

120 130 140 150

411+50

FILL AREA = 0.0 (SF)
 CUT AREA = 2061.4 (SF)

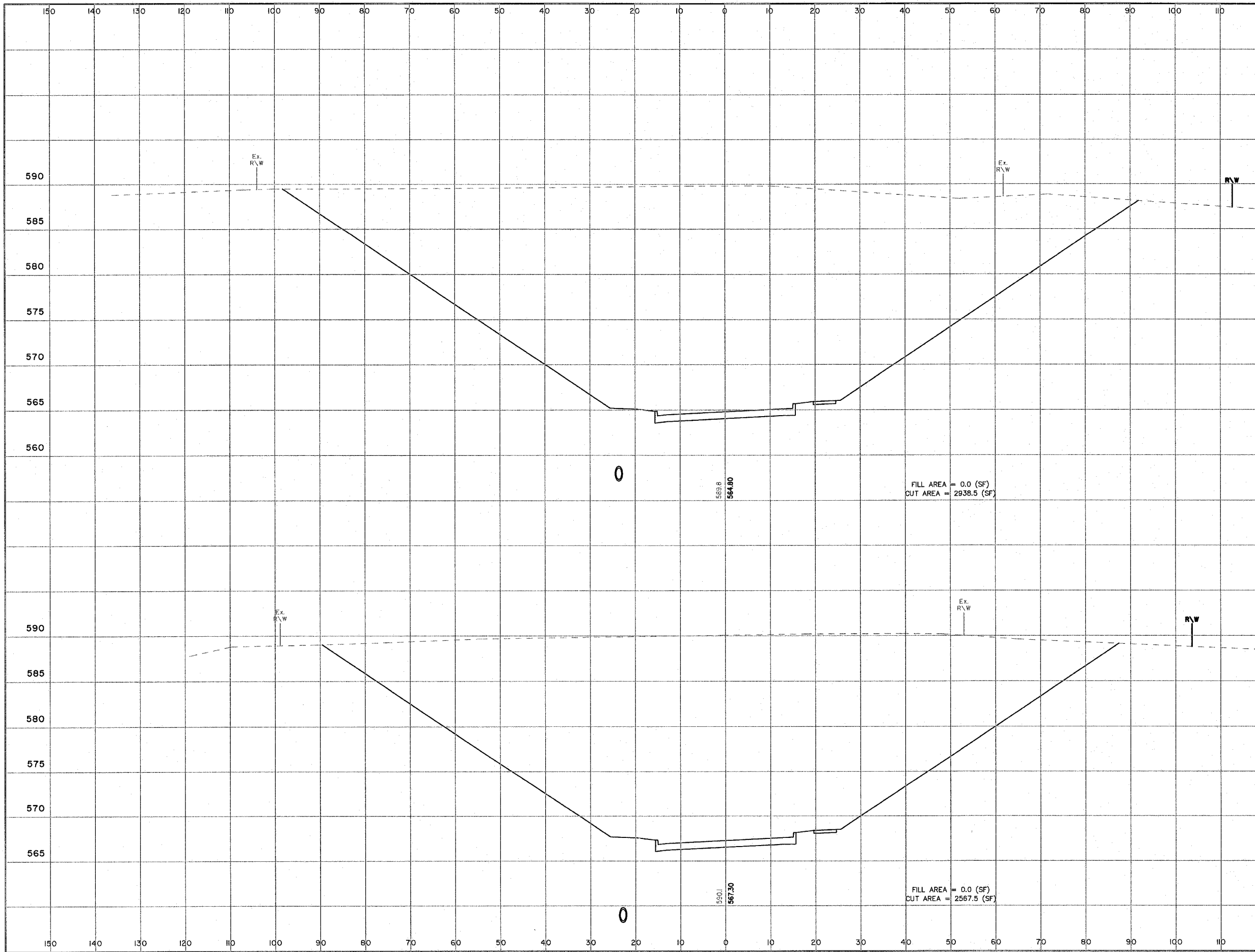
411+00

FILL AREA = 0.0 (SF)
 CUT AREA = 1404.6 (SF)

130 140 150
 OUTER BELT WEST



ROUTE NO. FAU 8384	SECTION *	COUNTY EFFINGHAM	TOTAL SHEETS 95	SHEET NO. 70
FED. ROAD DIST. NO. 7		LINE NO.	FED. AID PROJECT- HPP-4082(4)	
SECTION 05-00094-01-PV SECTION 03-00098-00-BR CONTRACT #95503				



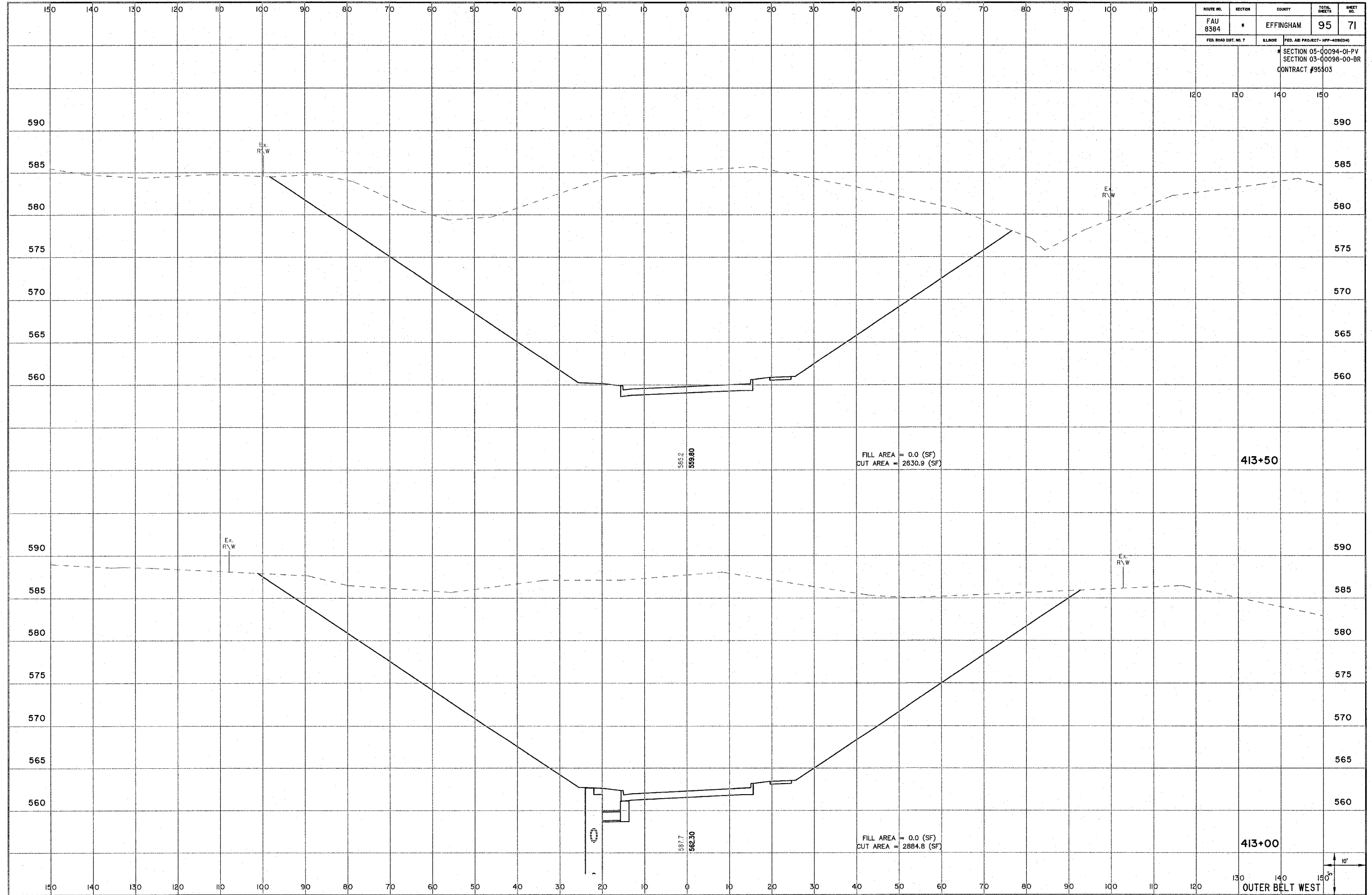
412+50

412+00

FILL AREA = 0.0 (SF)
CUT AREA = 2938.5 (SF)

FILL AREA = 0.0 (SF)
CUT AREA = 2567.5 (SF)

10'
150'
OUTER BELT WEST



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	71

* SECTION 05-0094-01-PV
 SECTION 03-0098-00-BR
 CONTRACT #95903

FILL AREA = 0.0 (SF)
 CUT AREA = 2630.9 (SF)

FILL AREA = 0.0 (SF)
 CUT AREA = 2884.8 (SF)

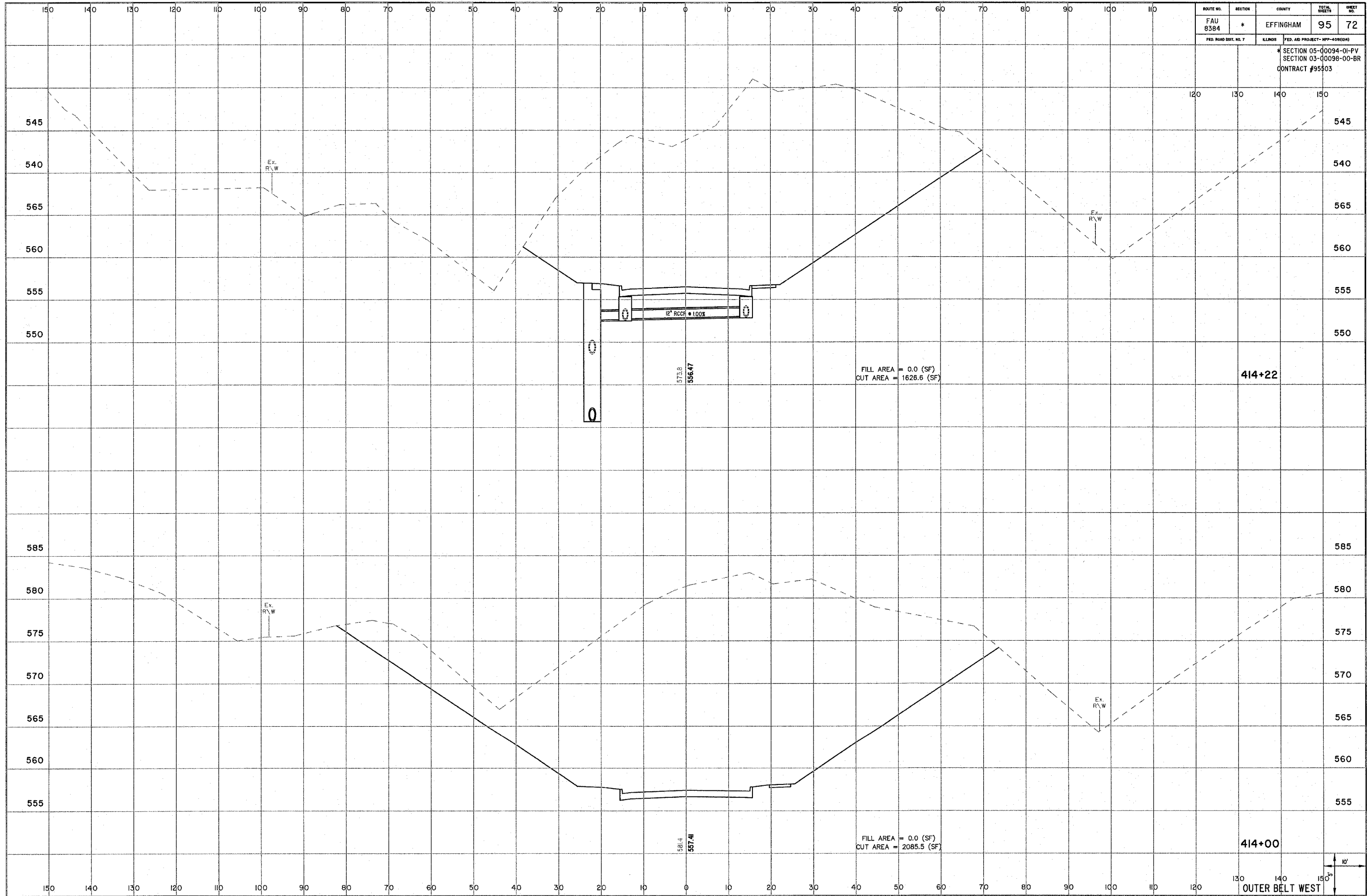
413+50

413+00

150'
 10'
 150'
 OUTER BELT WEST

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	72

FED. ROAD DIST. NO. 7
 KLINE
 FED. AD. PROJECT-HP-40904
 SECTION 05-00094-DI-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503



12" RCCR • 100%

573.8
556.47

FILL AREA = 0.0 (SF)
CUT AREA = 1626.6 (SF)

414+22

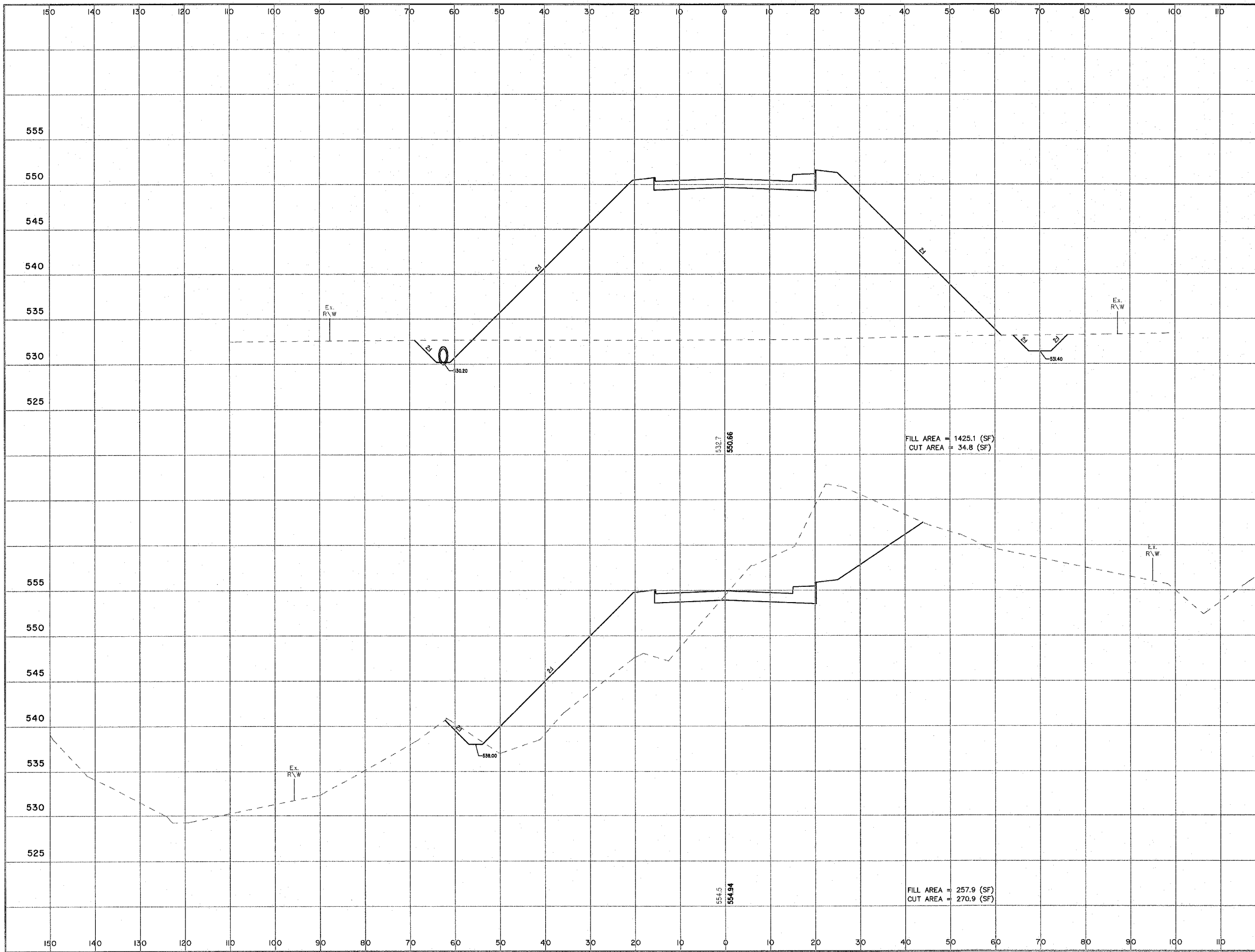
566.4
557.41

FILL AREA = 0.0 (SF)
CUT AREA = 2085.5 (SF)

414+00

OUTER BELT WEST

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	73
FED. ROAD DIST. NO. 7		ELLIPSE	FED. AID PROJECT- HPP-4080(4)	
SECTION 05-00094-01-PV SECTION 03-00098-00-BR CONTRACT #95503				



416+70

416+62

FILL AREA = 1425.1 (SF)
CUT AREA = 34.8 (SF)

FILL AREA = 257.9 (SF)
CUT AREA = 270.9 (SF)

532.7
550.66

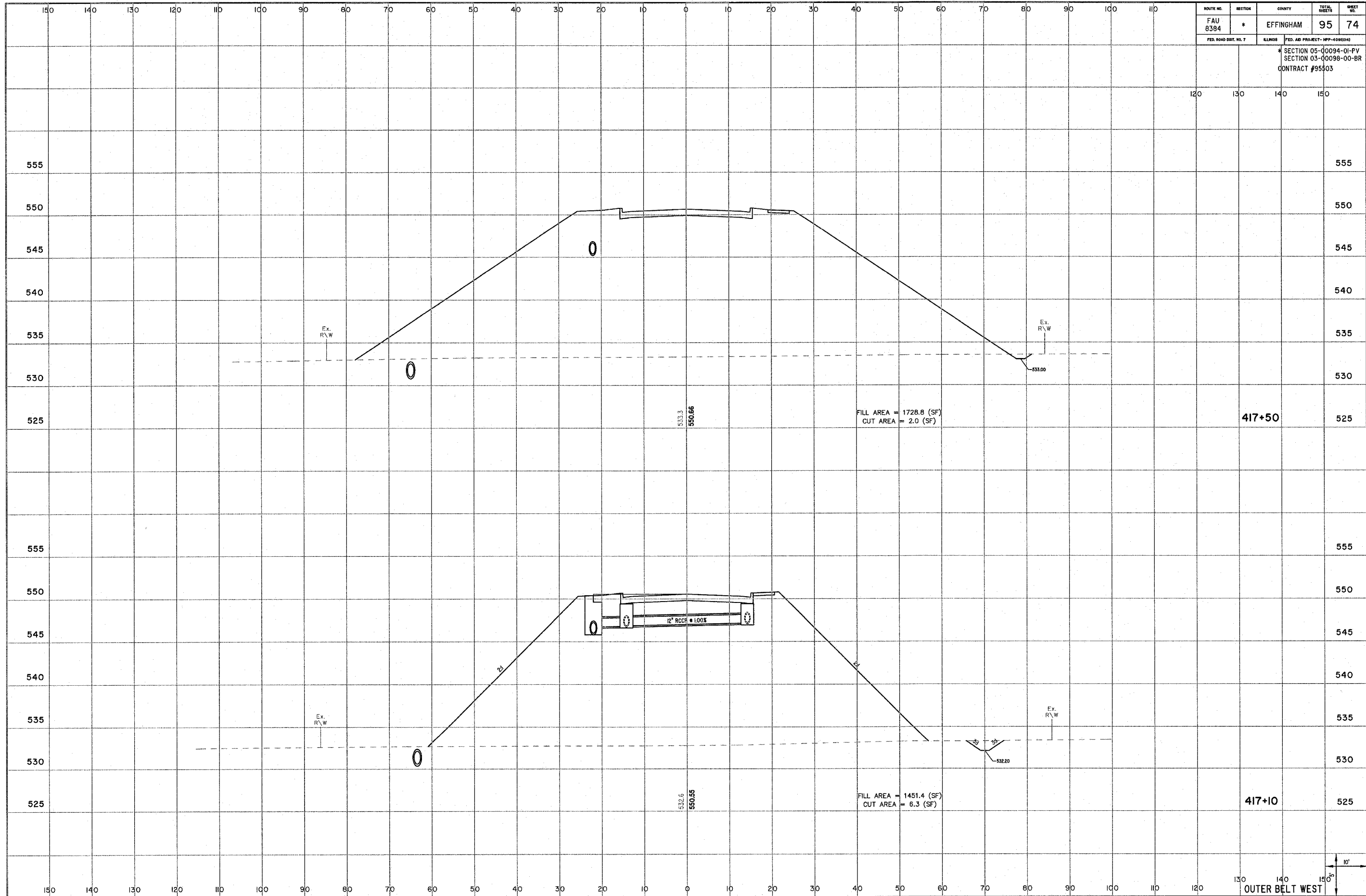
554.5
554.94

530.20

538.00

OUTER BELT WEST





ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	74

FED. ROAD DIST. NO. 7
 ALNOS
 FED. AID PROJECT - HP-40904H
 SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

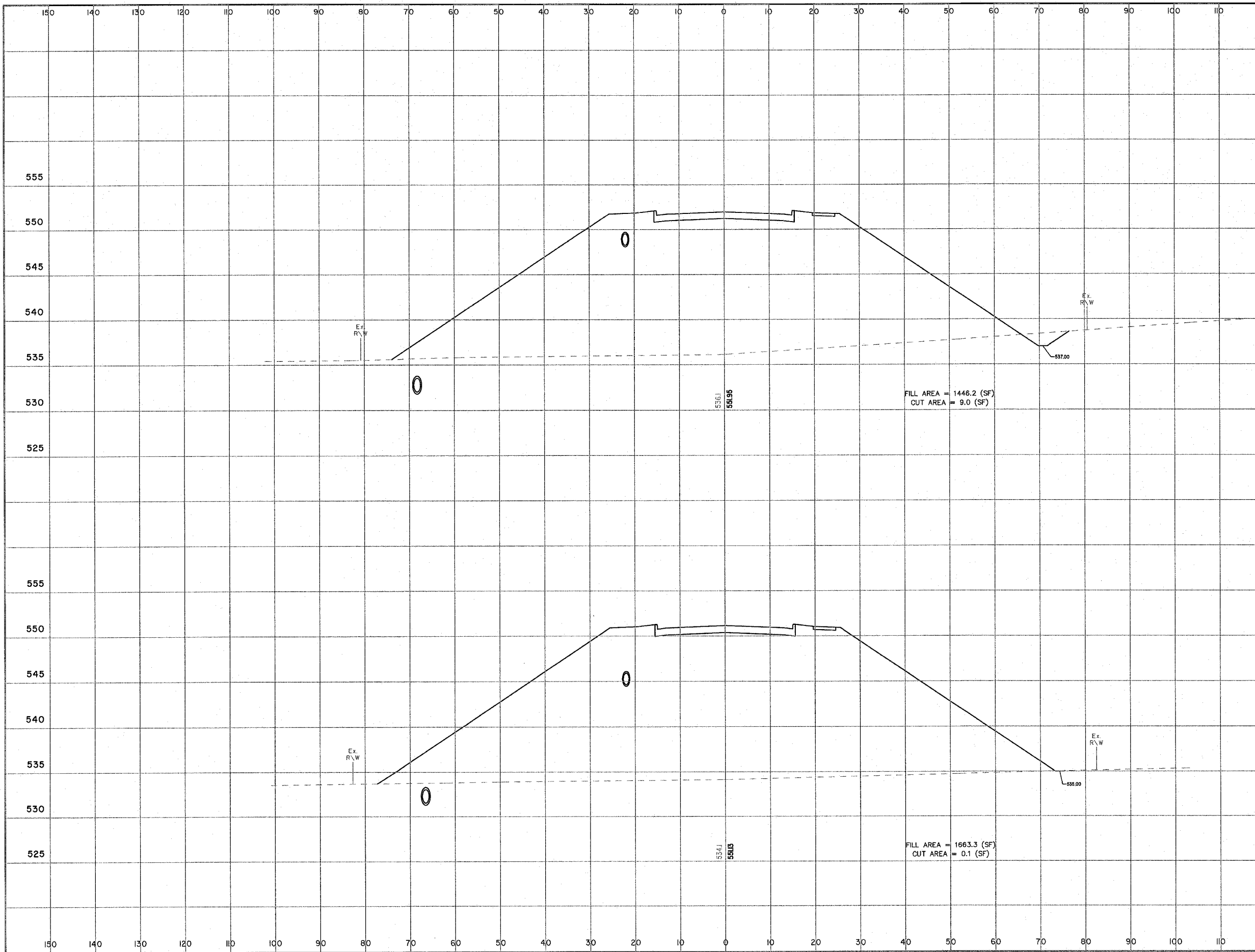
120	130	140	150
-----	-----	-----	-----

555			555
550			550
545			545
540			540
535			535
530			530
525		417+50	525

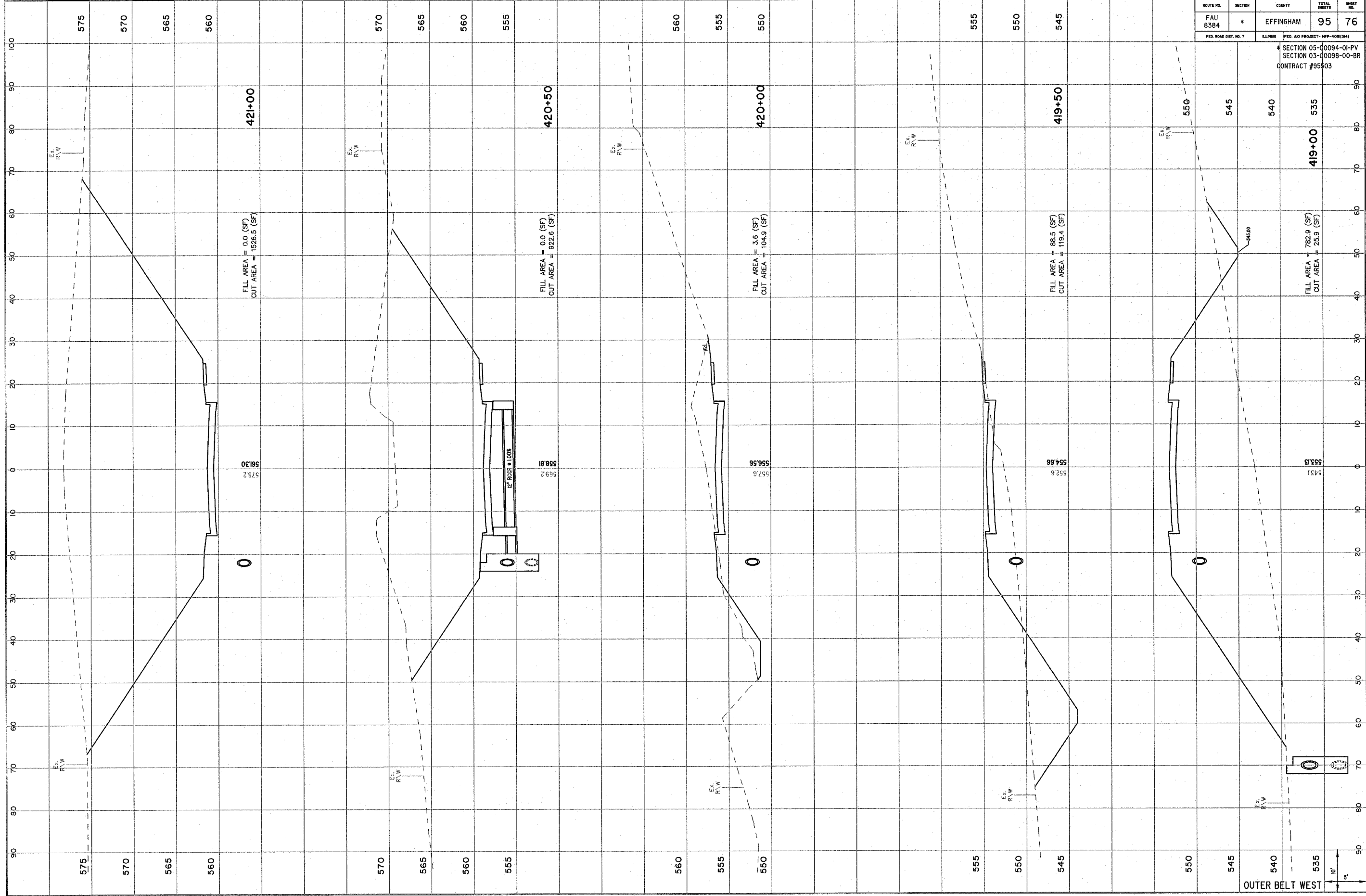
555			555
550			550
545			545
540			540
535			535
530			530
525		417+10	525

10'
 150'
 OUTER BELT WEST

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	75
FED. ROAD DIST. NO. 7		ALIGN.	FED. AID PROJECT - WY-408(04)	
SECTION 05-00094-01-PV SECTION 03-00098-00-BR CONTRACT #95503				



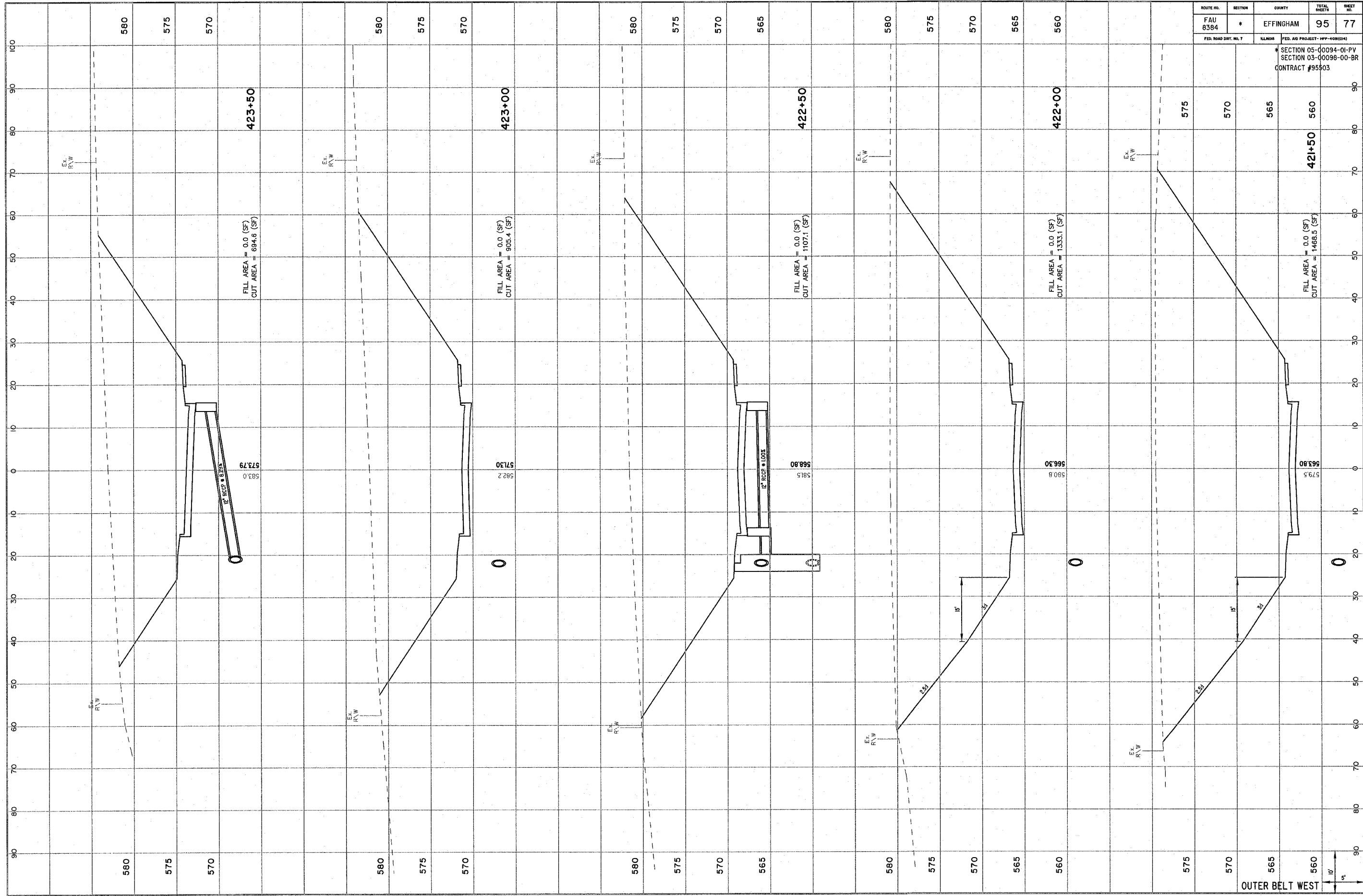
150' 10' 150'
OUTER BELT WEST

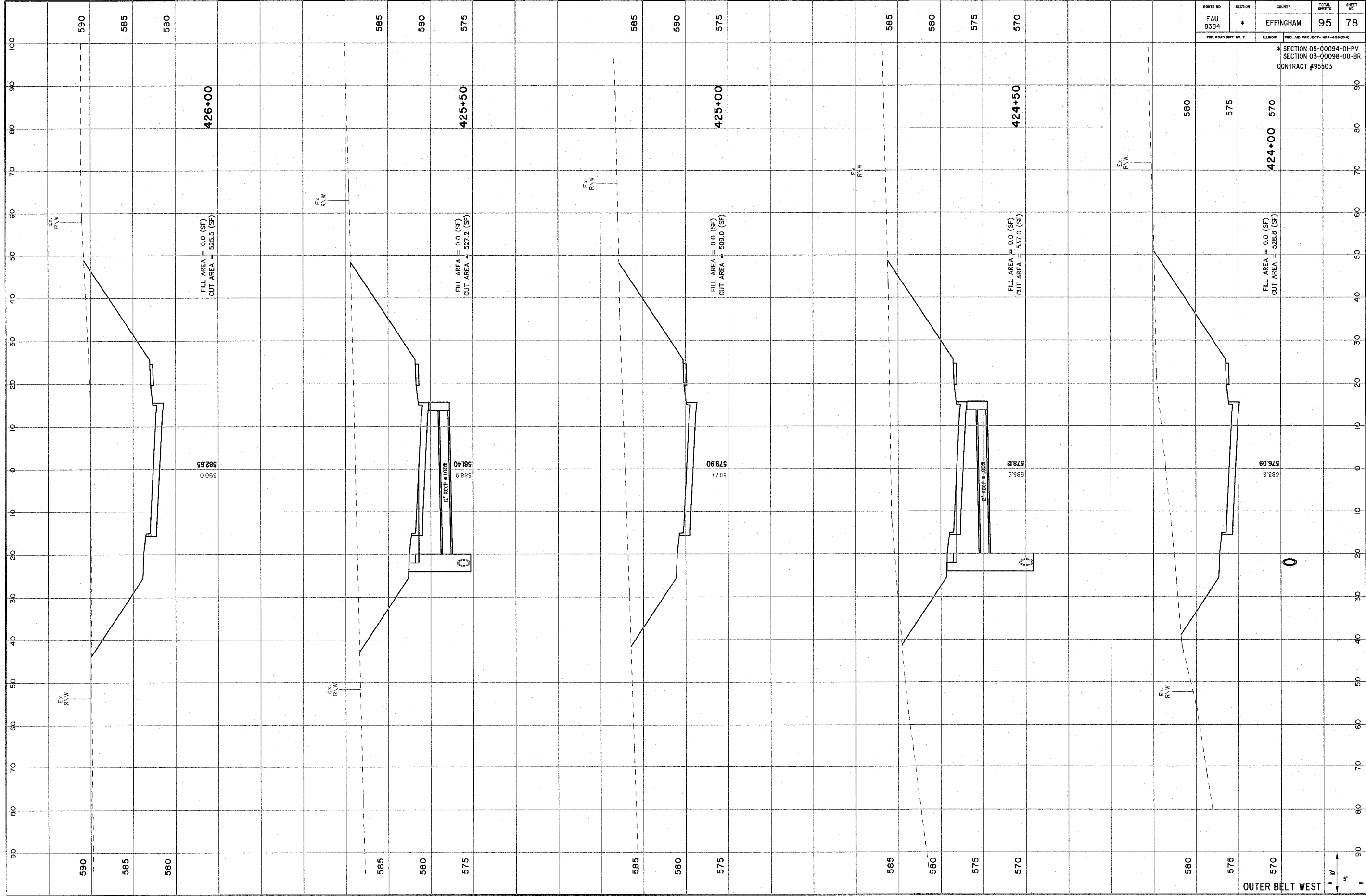


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	76

FED. ROAD DIST. NO. 7
 LANE NO. 1
 FED. AID PROJECT - HPP-4090044
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

OUTER BELT WEST

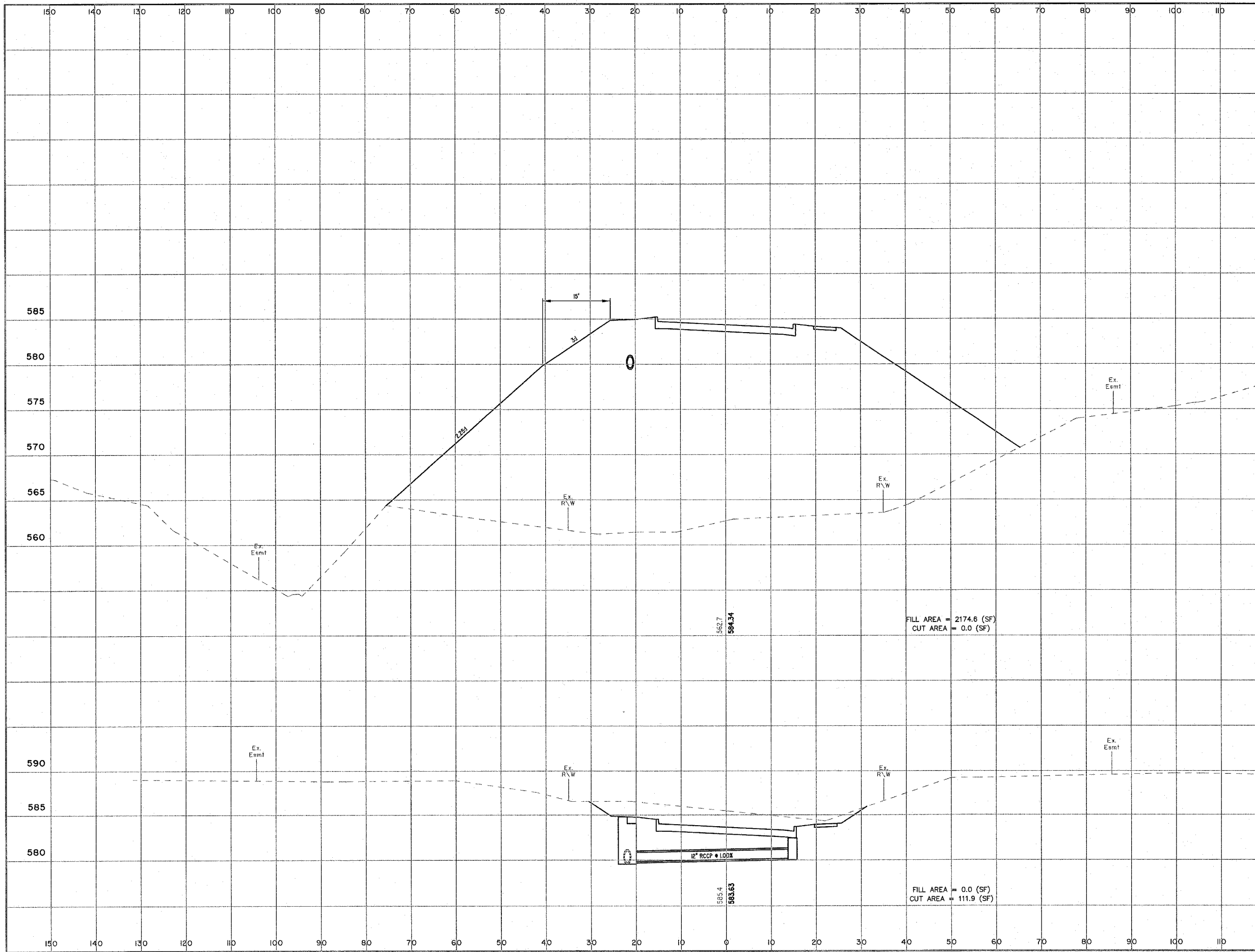




ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	78
FED. ROAD DIST. NO. 7		FED. AID PROJECT-109-409204		
		* SECTION 05-00094-01-PV SECTION 03-00098-00-BR CONTRACT #95503		

OUTER BELT WEST

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	79
FED. ROAD DIST. NO. 7		ALIGN.	FED. AID PROJECT-HPF-4092041	
SECTION 05-00094-01-PV SECTION 03-00098-00-BR CONTRACT #95503				

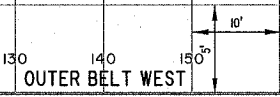


FILL AREA = 2174.6 (SF)
CUT AREA = 0.0 (SF)

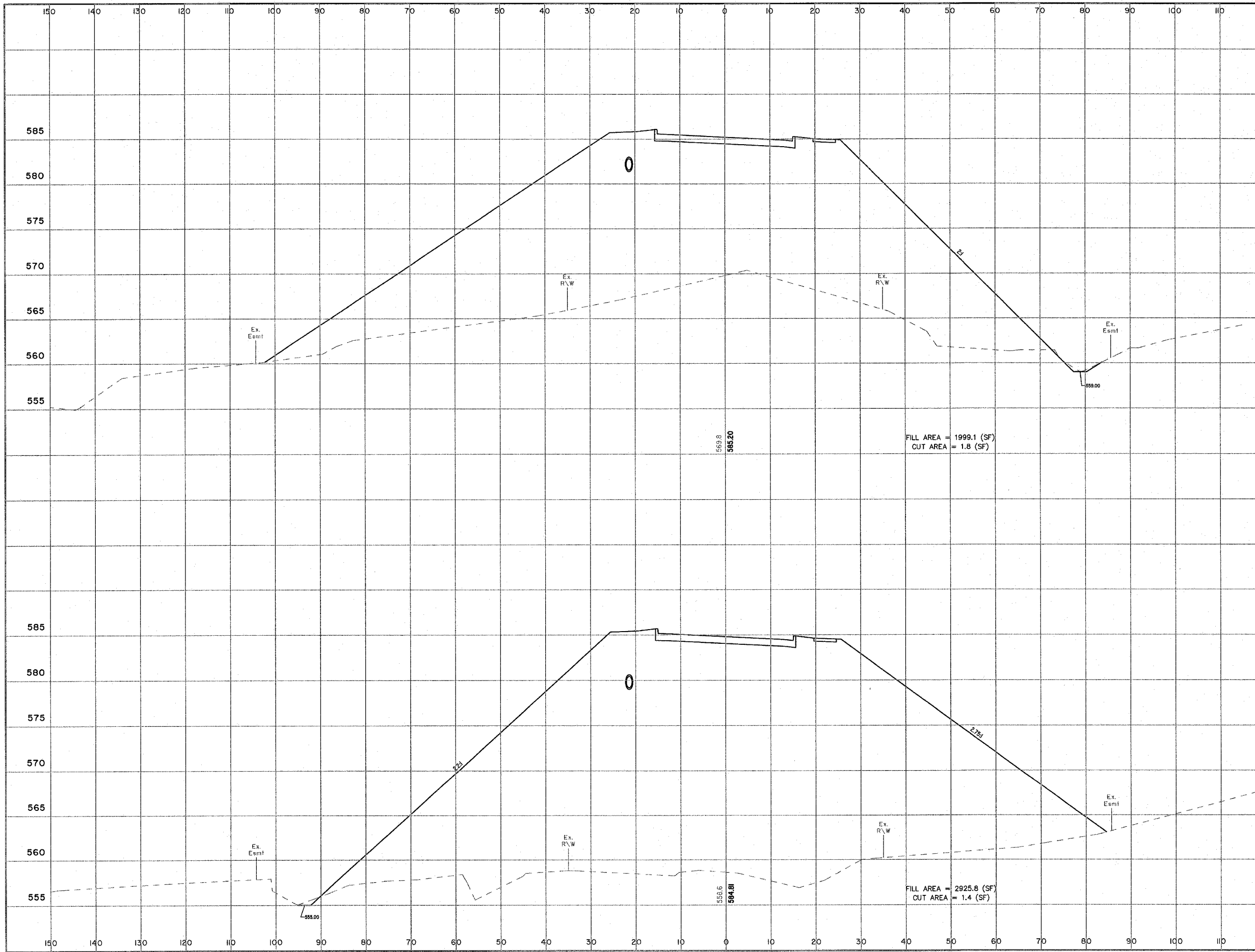
427+00

FILL AREA = 0.0 (SF)
CUT AREA = 111.9 (SF)

426+50



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	80
FED. ROAD DIST. NO. 7		LR#02	FED. AID PROJECT-HPF-409024	
SECTION 05-00094-01-PV SECTION 03-00098-00-BR CONTRACT #95503				



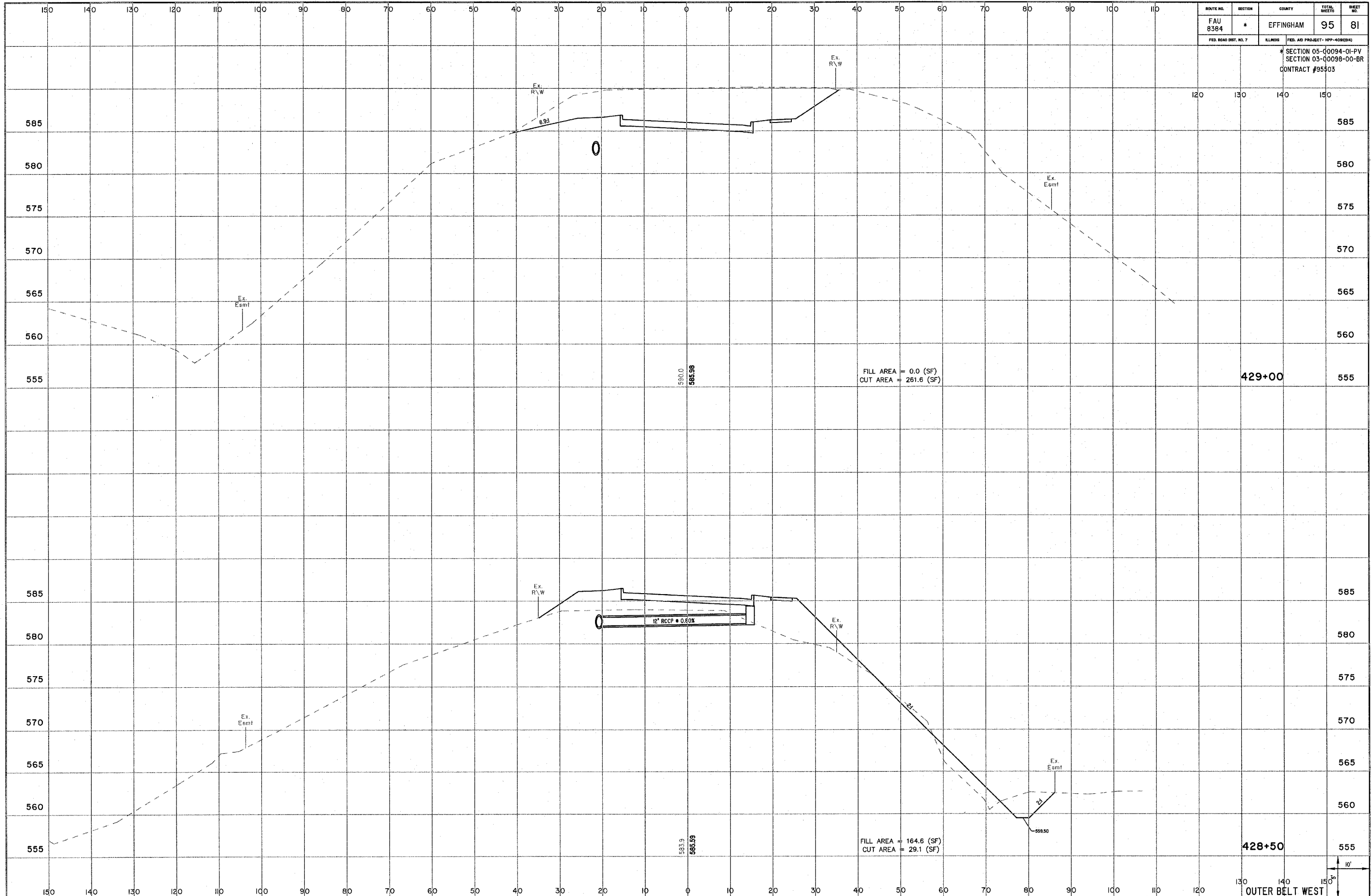
428+00

427+50

10'
150'
OUTER BELT WEST

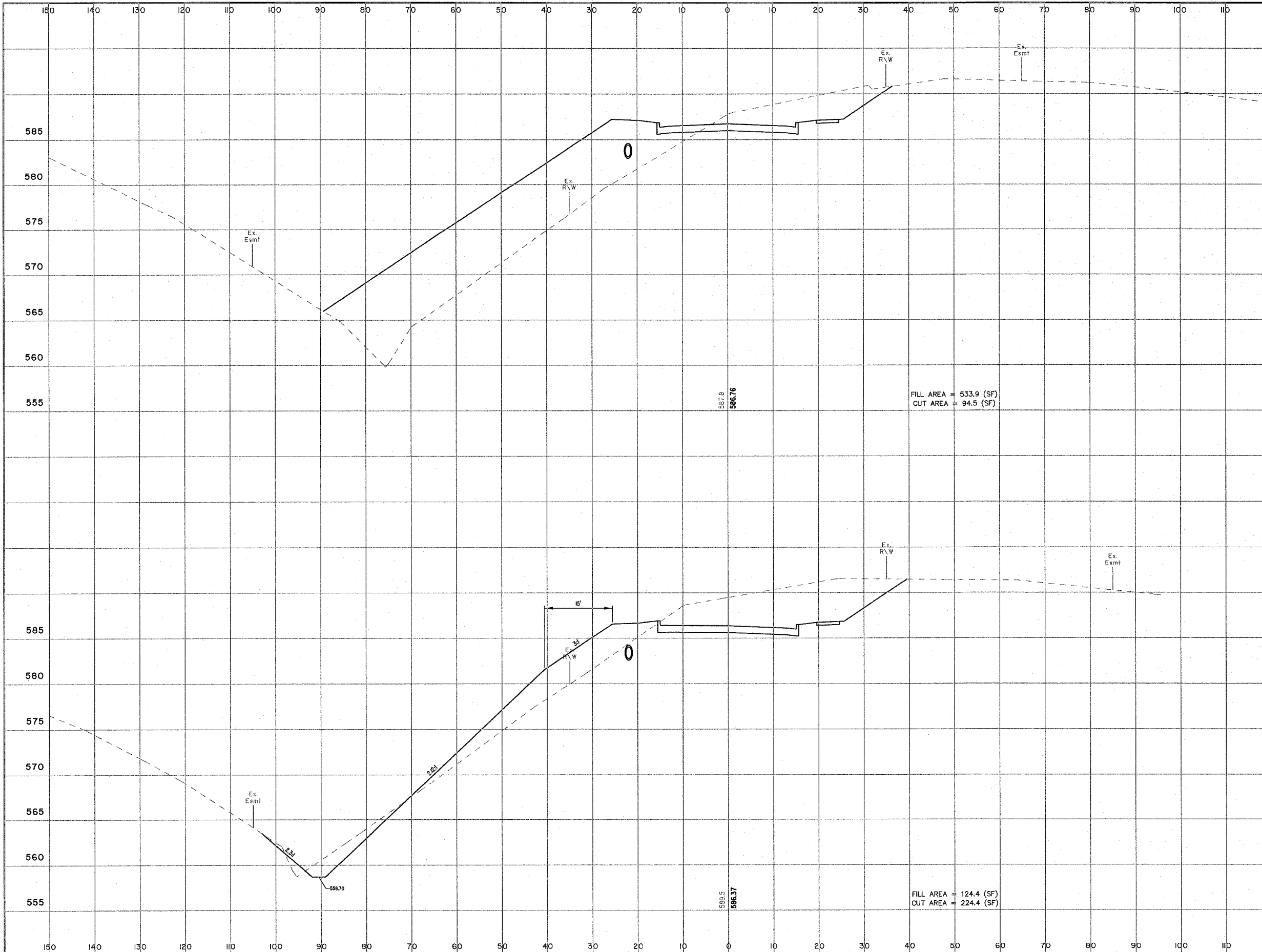
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	81

FED. ROAD DIST. NO. 7
 ILLINOIS
 FEDERAL PROJECT - HPP-4090241
 * SECTION 05-00094-01-PY
 SECTION 03-00098-00-BR
 CONTRACT #95503



10'
 150'
 OUTER BELT WEST

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	82
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-1977-408041	
# SECTION 05-00094-01-PV SECTION 03-00098-00-BR CONTRACT #95503				



FILL AREA = 533.9 (SF)
CUT AREA = 94.5 (SF)

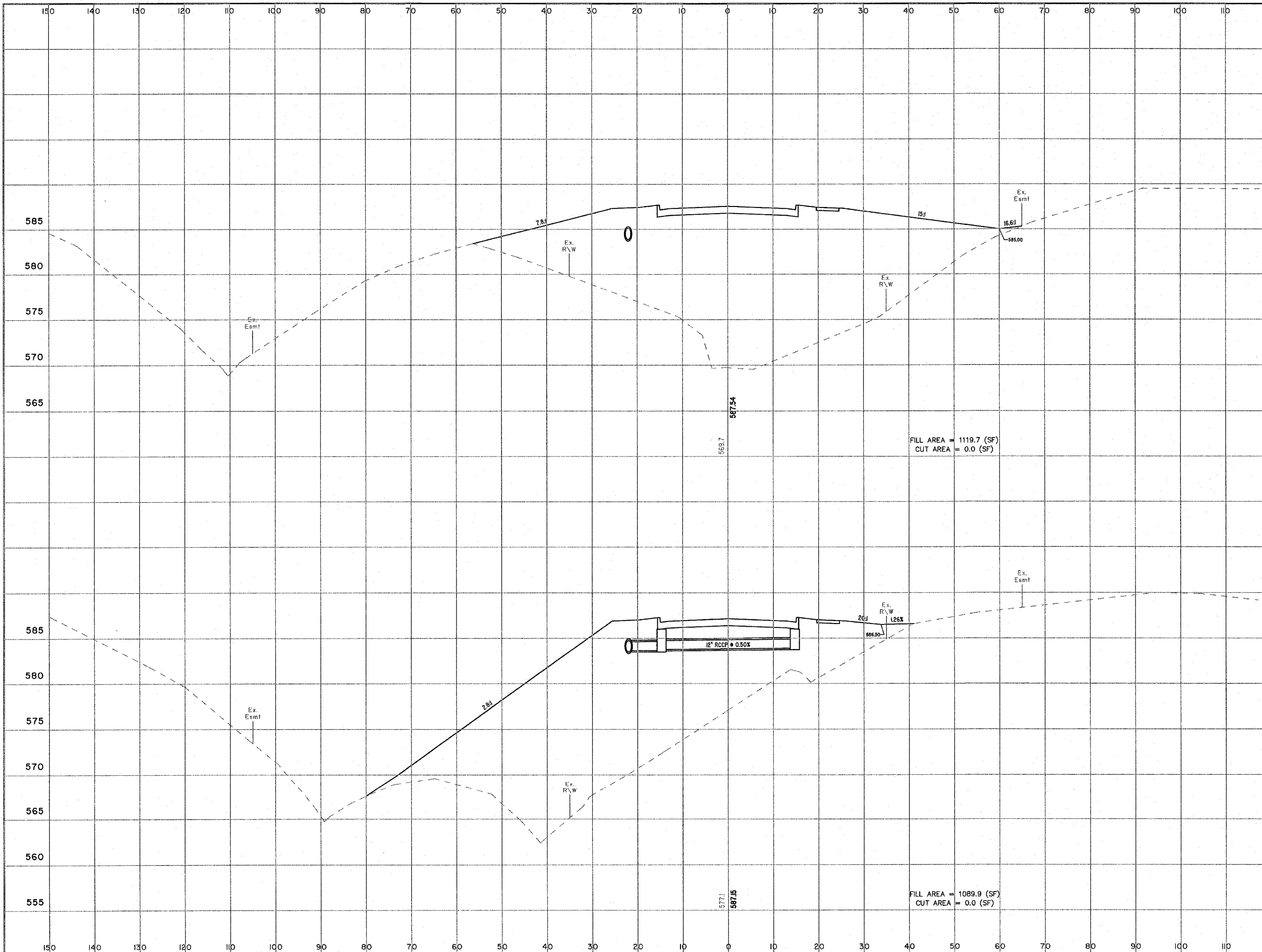
430+00

FILL AREA = 124.4 (SF)
CUT AREA = 224.4 (SF)

429+50



ROUTE NO. FAU 8384	SECTION *	COUNTY EFFINGHAM	TOTAL SHEETS 95	SHEET NO. 83
FED. ROAD DIST. NO. 7		BLANKS	FED. AID PROJECT-NP-409241	
* SECTION 05-00094-01-PY SECTION 03-00098-00-BR CONTRACT #95503				



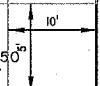
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CUT AREA = 0.0 (SF)

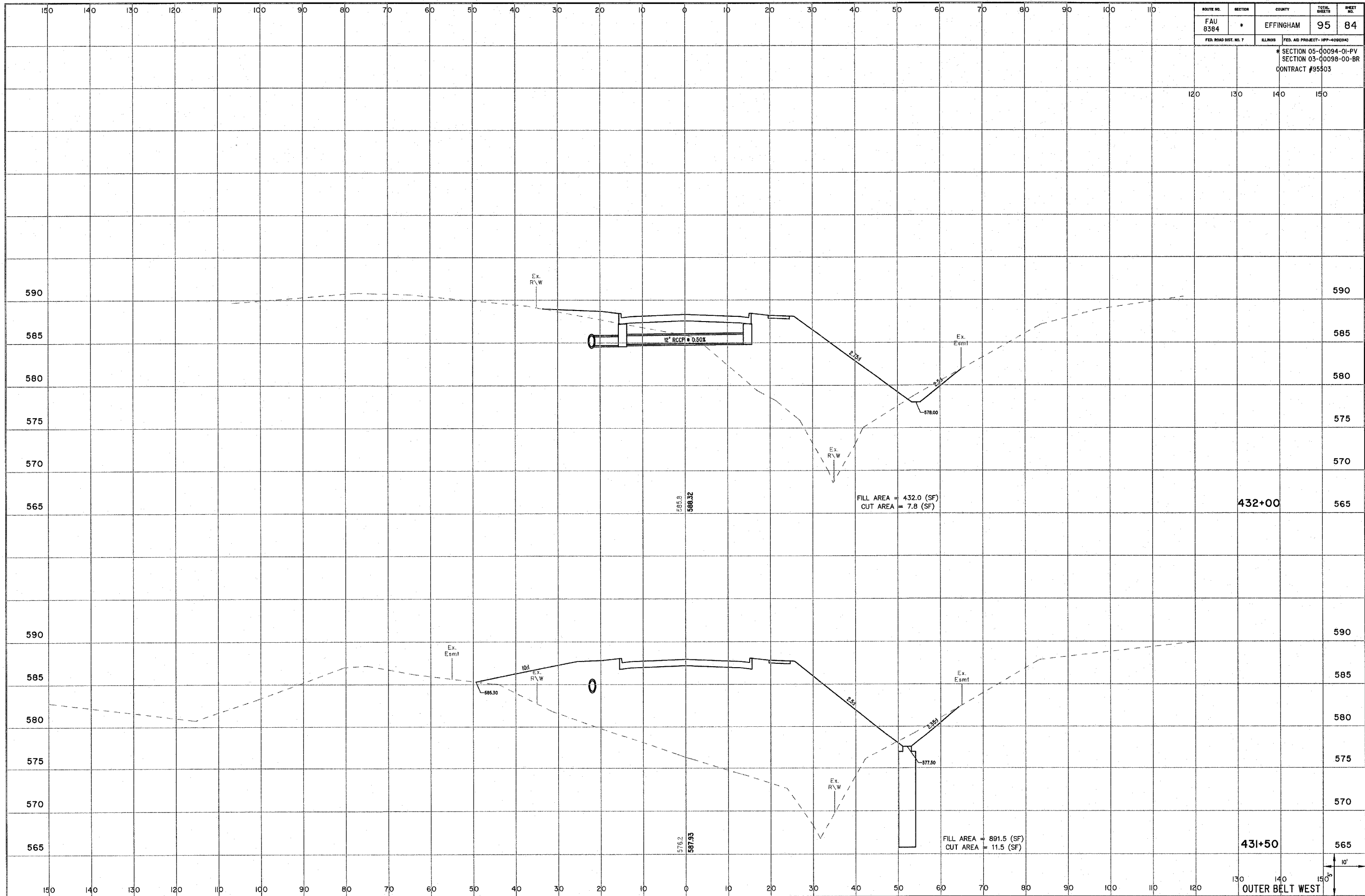
FILL AREA = 1089.9 (SF)
CUT AREA = 0.0 (SF)

431+00

430+50

OUTER BELT WEST





ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	84

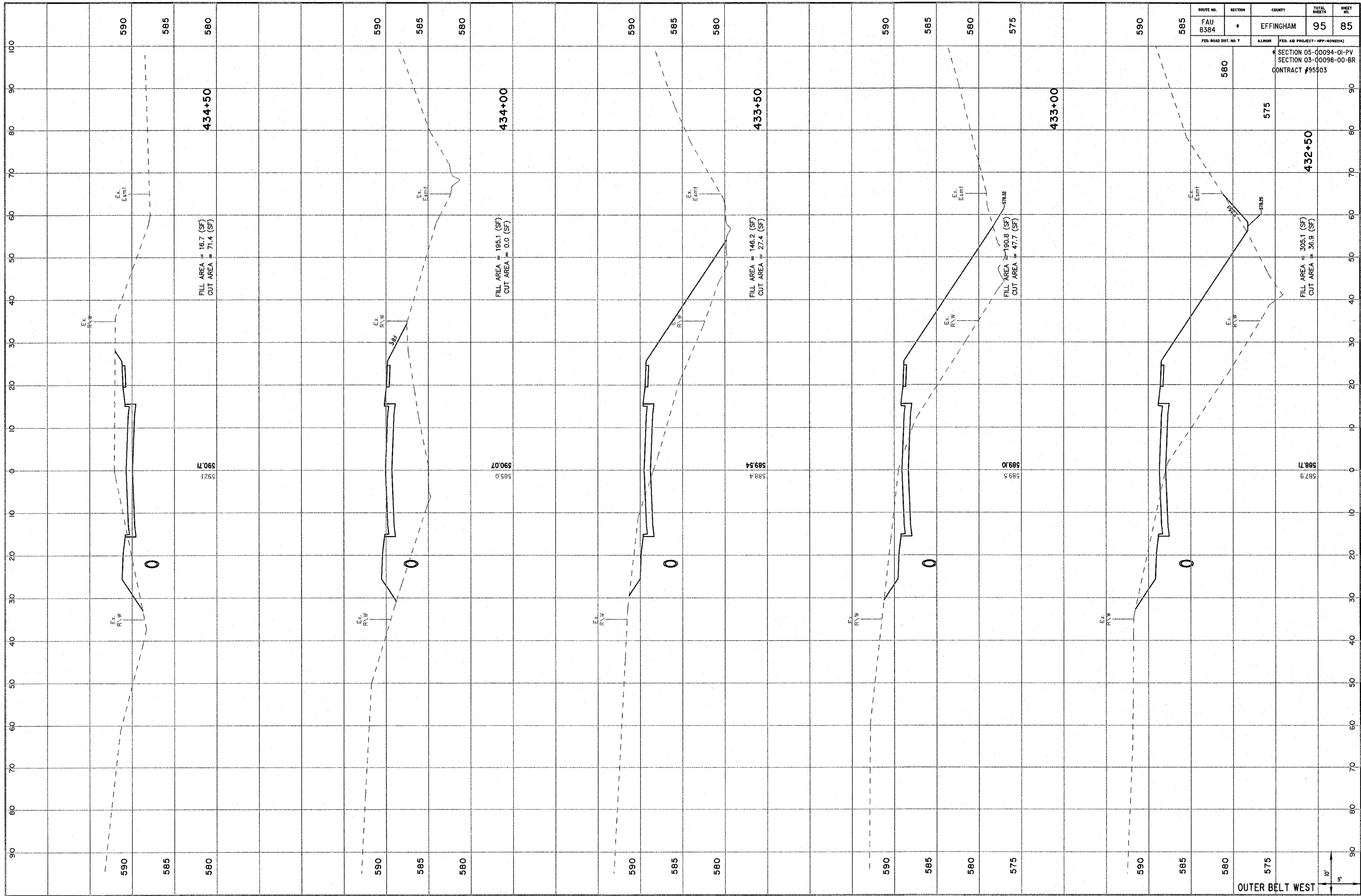
* SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

120 130 140 150

432+00

431+50

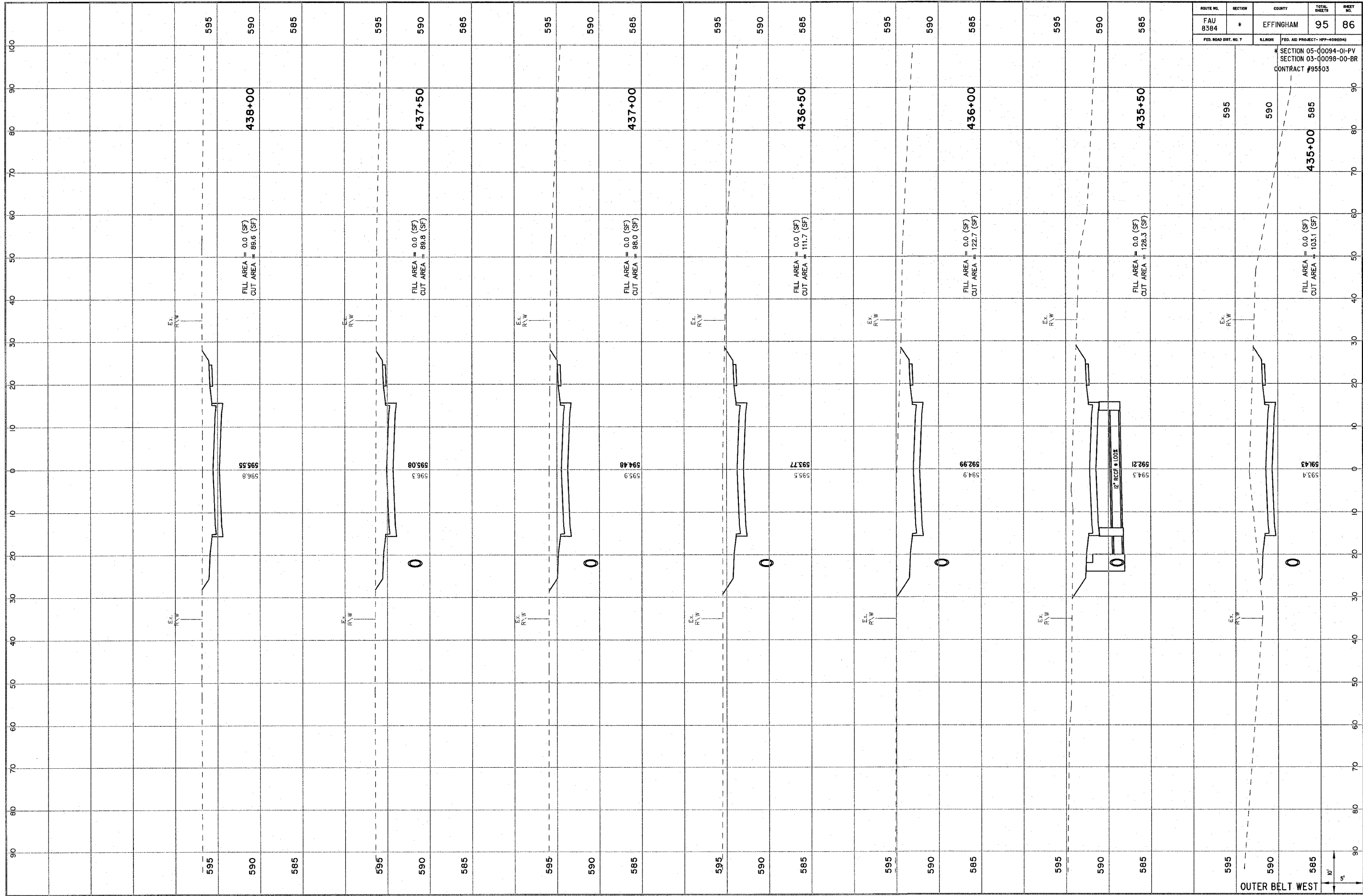
150' 10' 150' OUTER BELT WEST



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	85
FED. ROAD DIST. NO. 7		ALIGNED	FED. AID PROJECT - HP-4020(4)	
		SECTION 05-00094-DI-PV SECTION 03-00098-00-BR CONTRACT #95503		

OUTER BELT WEST



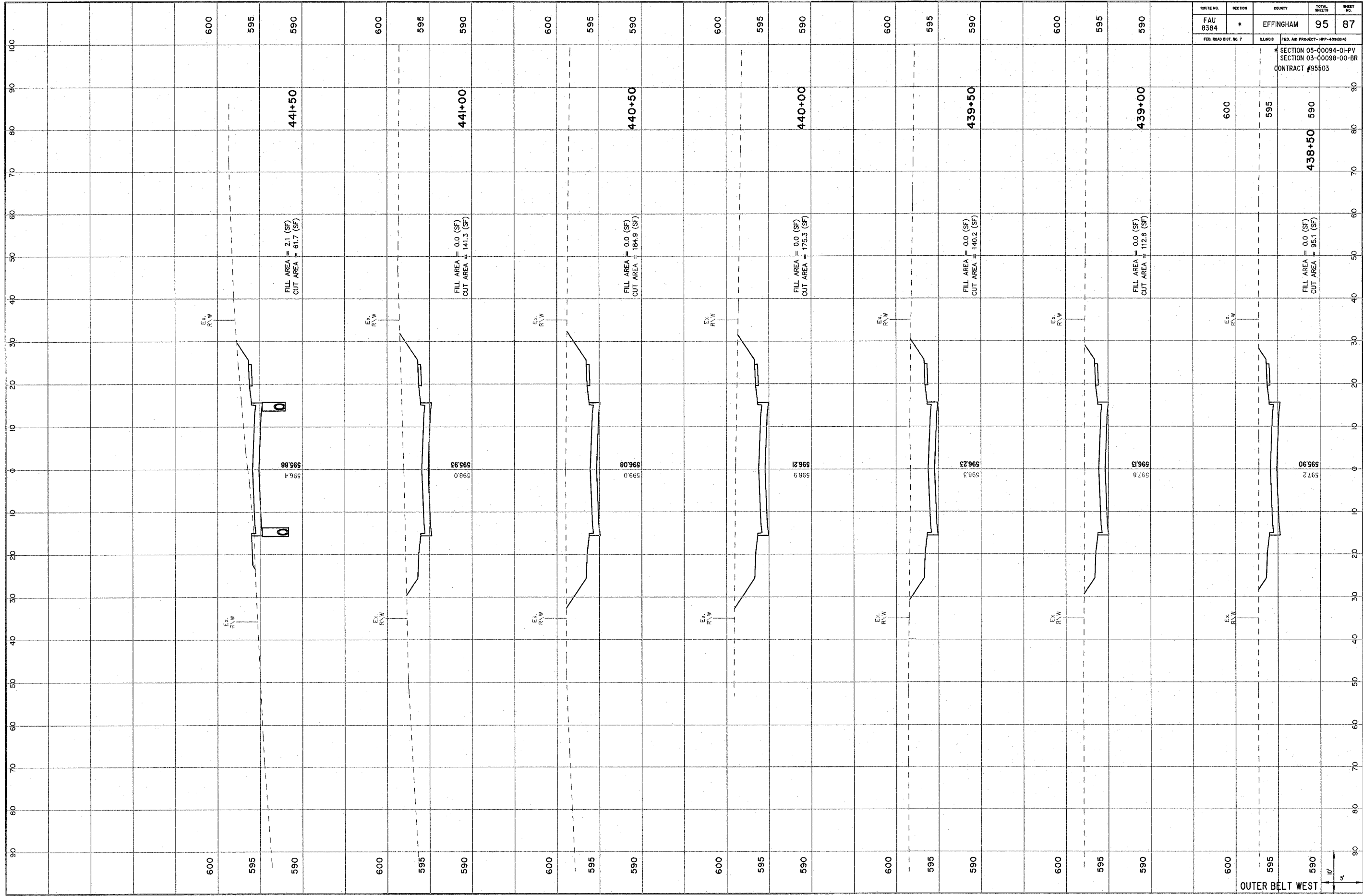


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	86

FED. ROAD DIST. NO. 7
 KLR08
 FED. AID PROJECT - HPP-409044
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

Station	Fill Area (SF)	Cut Area (SF)	Station	Fill Area (SF)	Cut Area (SF)
595			595		
590	0.0	89.6	590	0.0	89.8
585			585		
595			595		
590	0.0	98.0	590	0.0	111.7
585			585		
595			595		
590	0.0	122.7	590	0.0	128.3
585			585	0.0	103.1

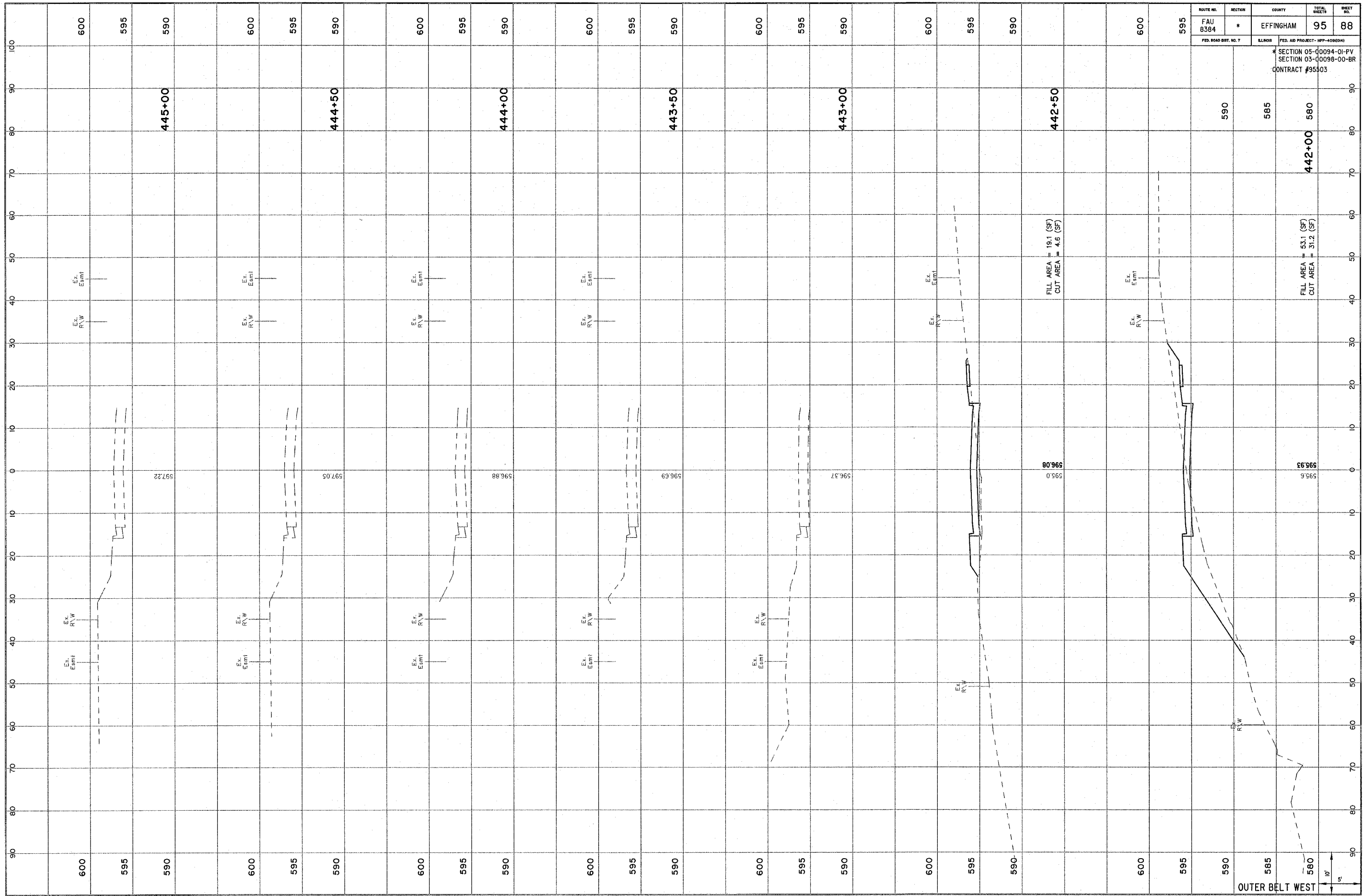
OUTER BELT WEST
 10'
 5'



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	87

FED. ROAD DIST. NO. 7
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

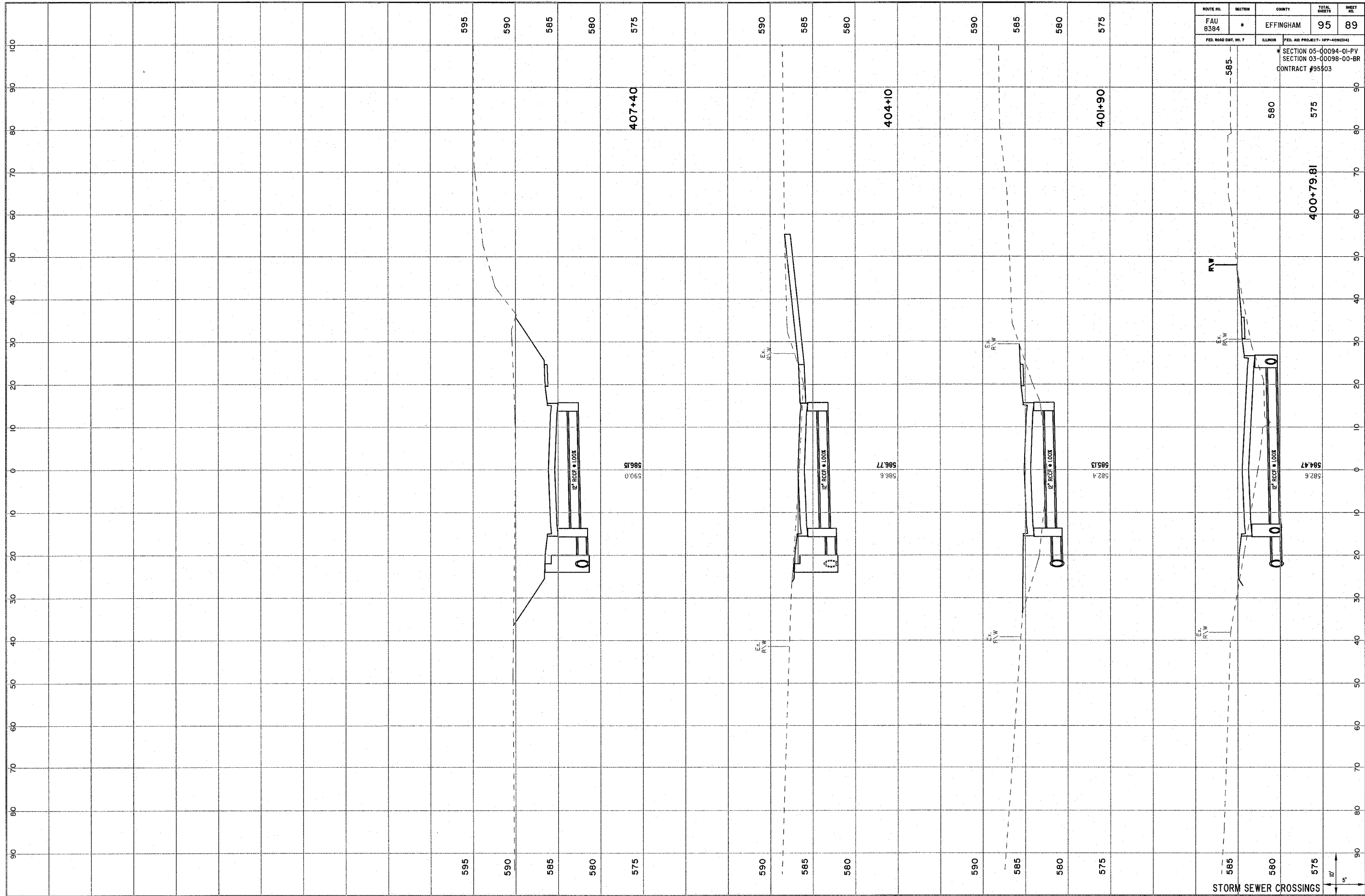
OUTER BELT WEST
 10'
 5'



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	88
FED. ROAD DIST. NO. 7		BLANK	FED. AID PROJECT - WY-4092(4)	
* SECTION 05-00094-01-PV SECTION 03-00098-00-BR CONTRACT #95503				

STATION	ELEVATION	TYPE
445+00	597.22	590
444+50	597.05	590
444+00	596.88	590
443+50	596.69	590
443+00	596.37	590
442+50	595.0	590
442+00	595.93	590
441+50	595.6	590

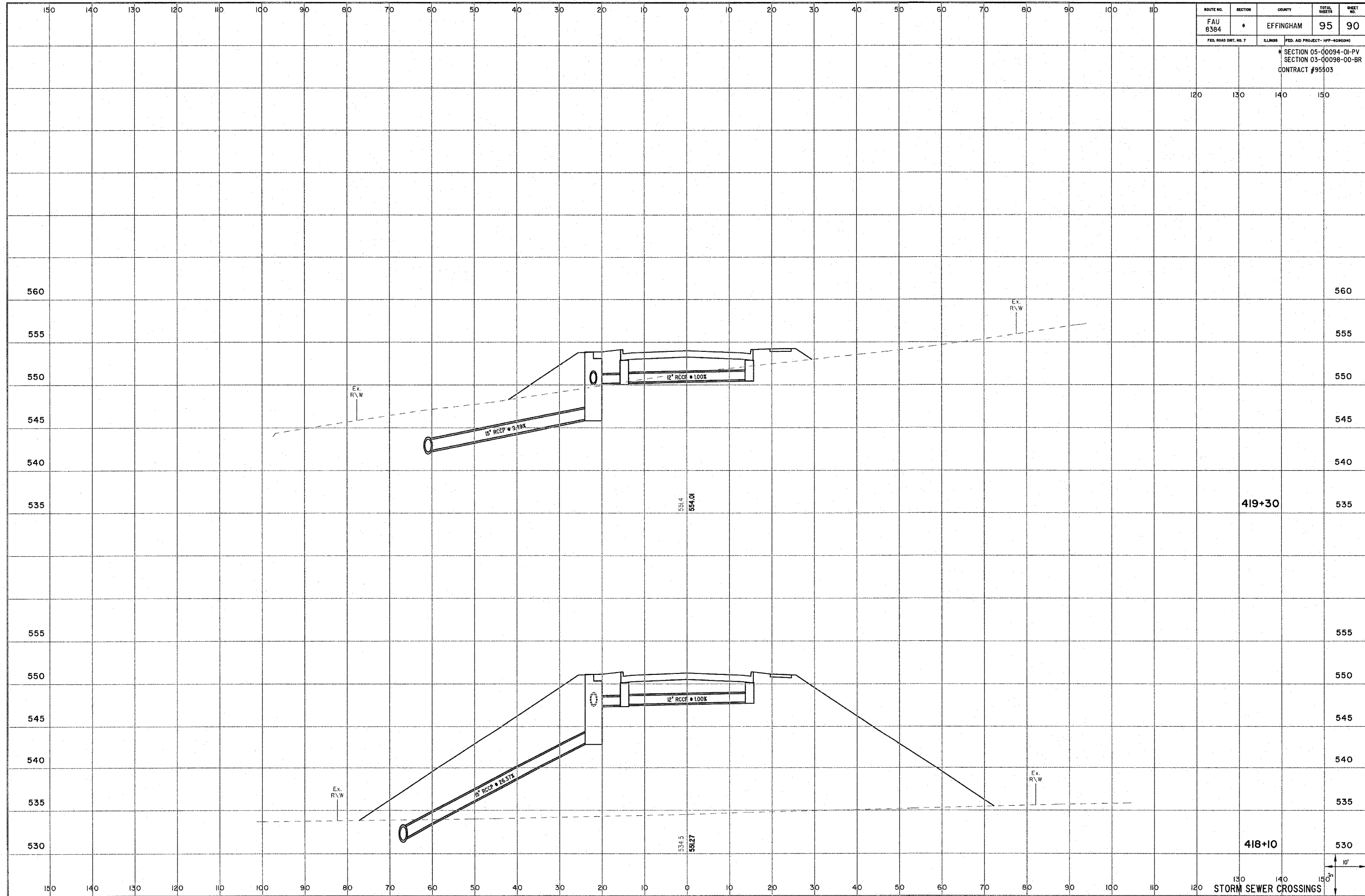
OUTER BELT WEST



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	89

FED. ROAD DIST. NO. 7
 ILLINOIS
 FED. AID PROJECT - 10P-409(04)
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #955503

STORM SEWER CROSSINGS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	90

FED. ROAD DIST. NO. 7
 ILLINOIS
 FED. AID PROJECT- HFF-4086041
 * SECTION 05-00094-01-PV
 SECTION 03-00098-00-BR
 CONTRACT #95503

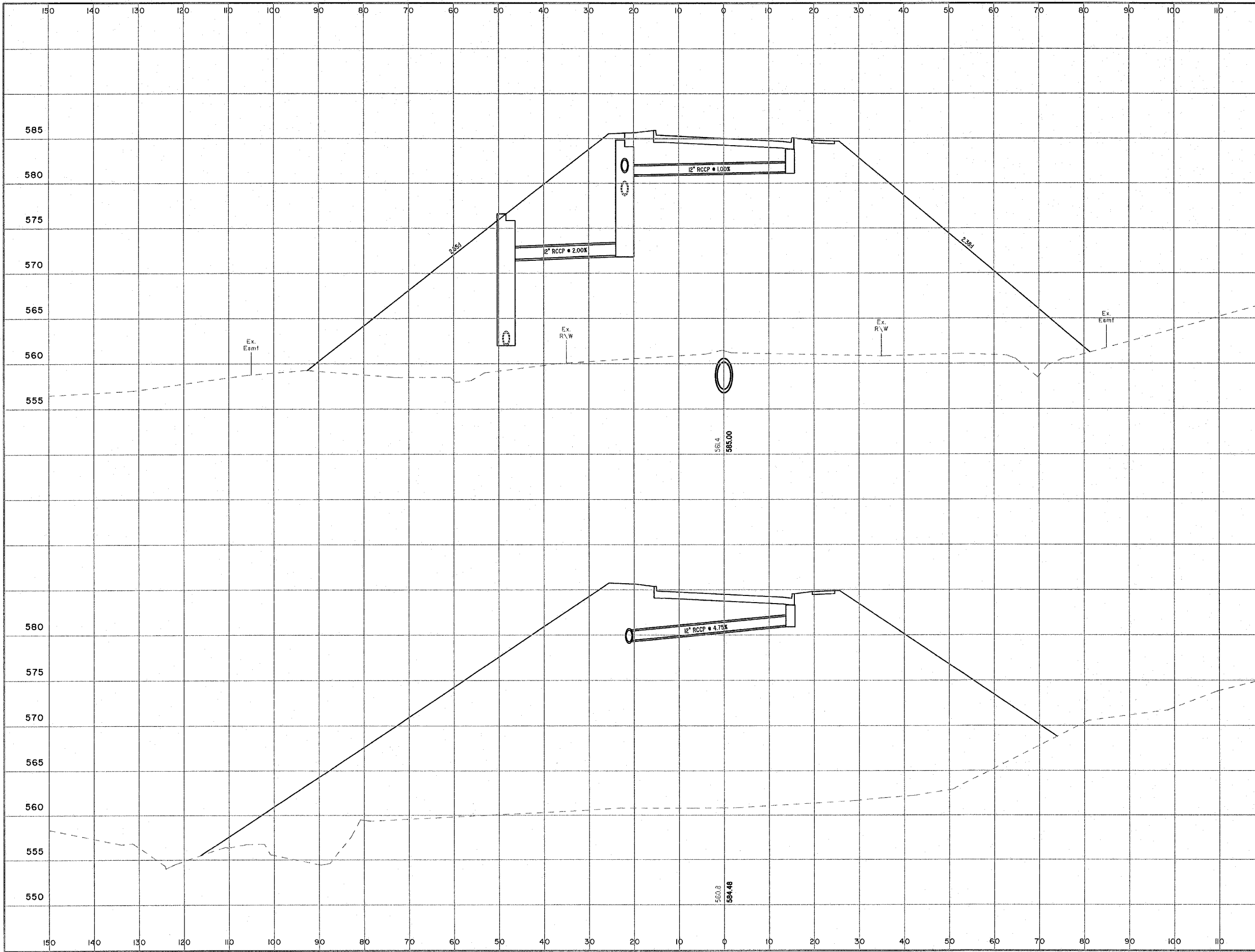
120	130	140	150
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419+30

418+10

10'
 150'
 STORM SEWER CROSSINGS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	91
FED. ROAD DIST. NO. 7		ALIGN.	FED. AID PROJECT-10P-4090M	
SECTION 05-00094-01-PY SECTION 03-00098-00-BR CONTRACT #95503				



585
580
575
570
565
560
555

120 130 140 150

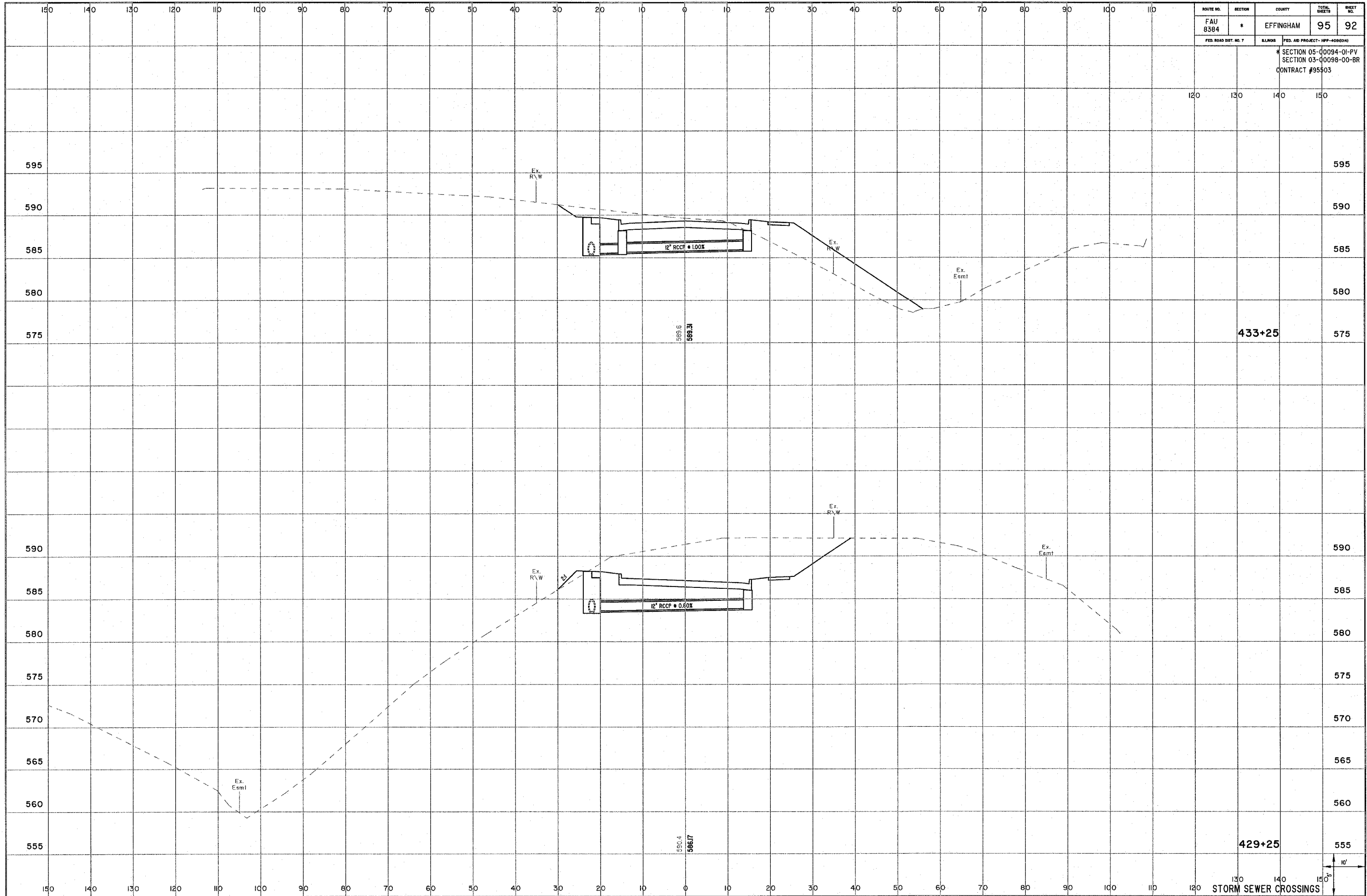
427+75

580
575
570
565
560
555

427+12.50

130 140 150
10'
150'

STORM SEWER CROSSINGS



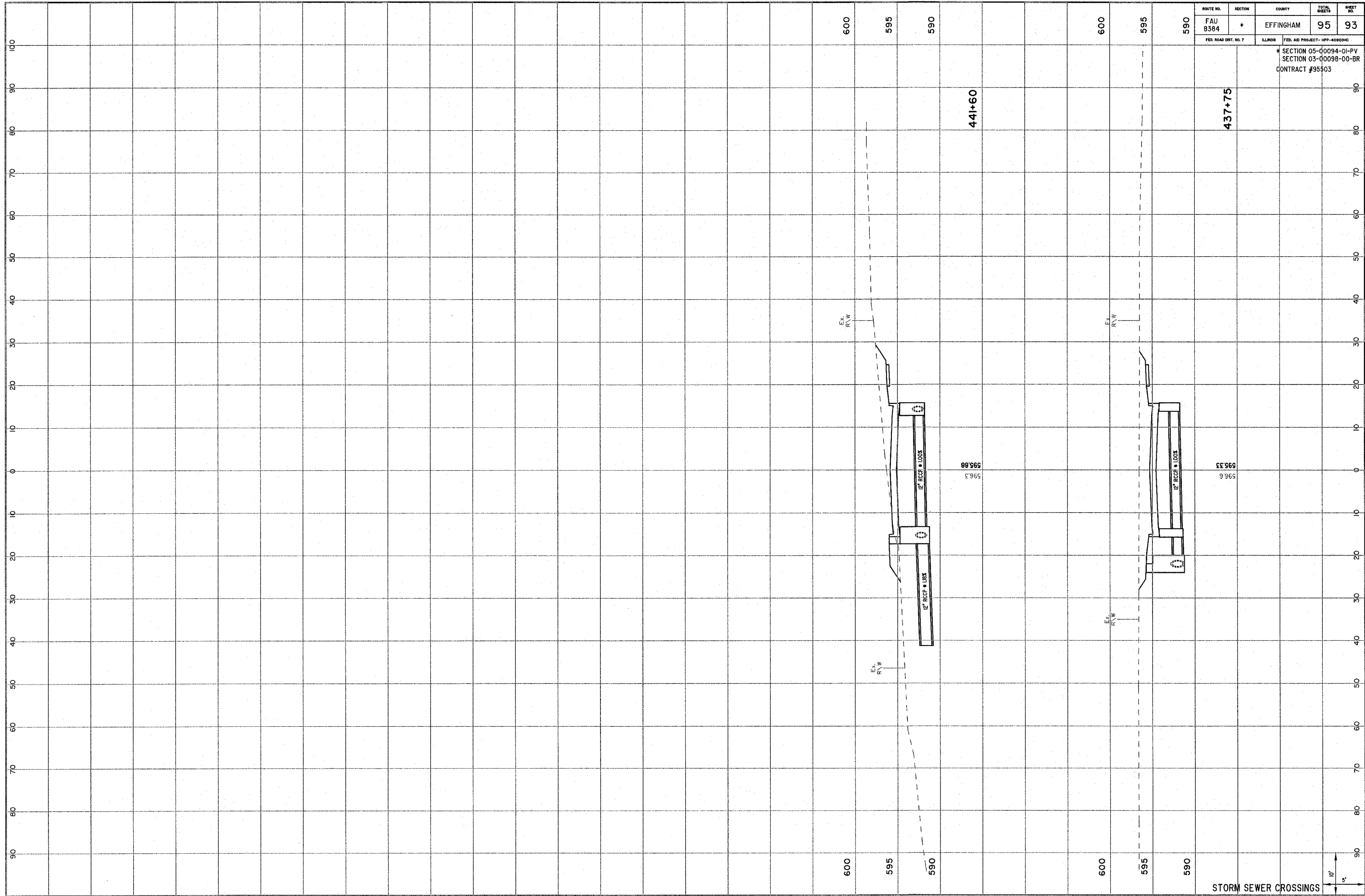
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	92
FED. ROAD DIST. NO. 7		BLANKS	FED. AID PROJECT-IMP-409244	
* SECTION 05-00094-01-PY SECTION 03-00098-00-BR CONTRACT #95503				

120 130 140 150

433+25

429+25

130 140 150
STORM SEWER CROSSINGS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8384	*	EFFINGHAM	95	93

FED. ROAD DIST. NO. 7
 ILLINOIS
 FED. AID PROJECT - IPP-4000041
 * SECTION 05-00094-01-PY
 SECTION 03-00098-00-BR
 CONTRACT #95503

437+75

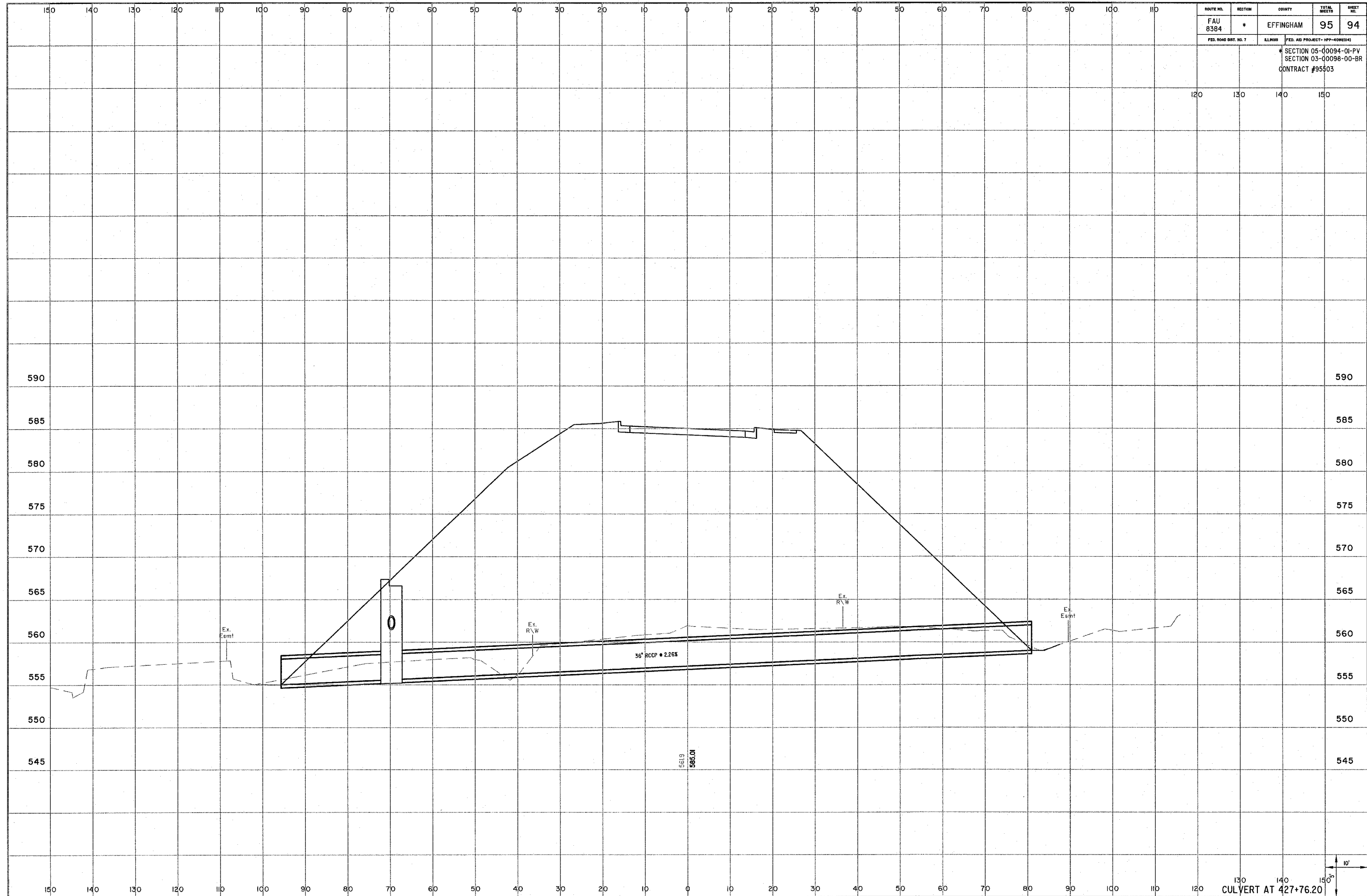
441+60

595.33
596.6

595.88
596.3

STORM SEWER CROSSINGS



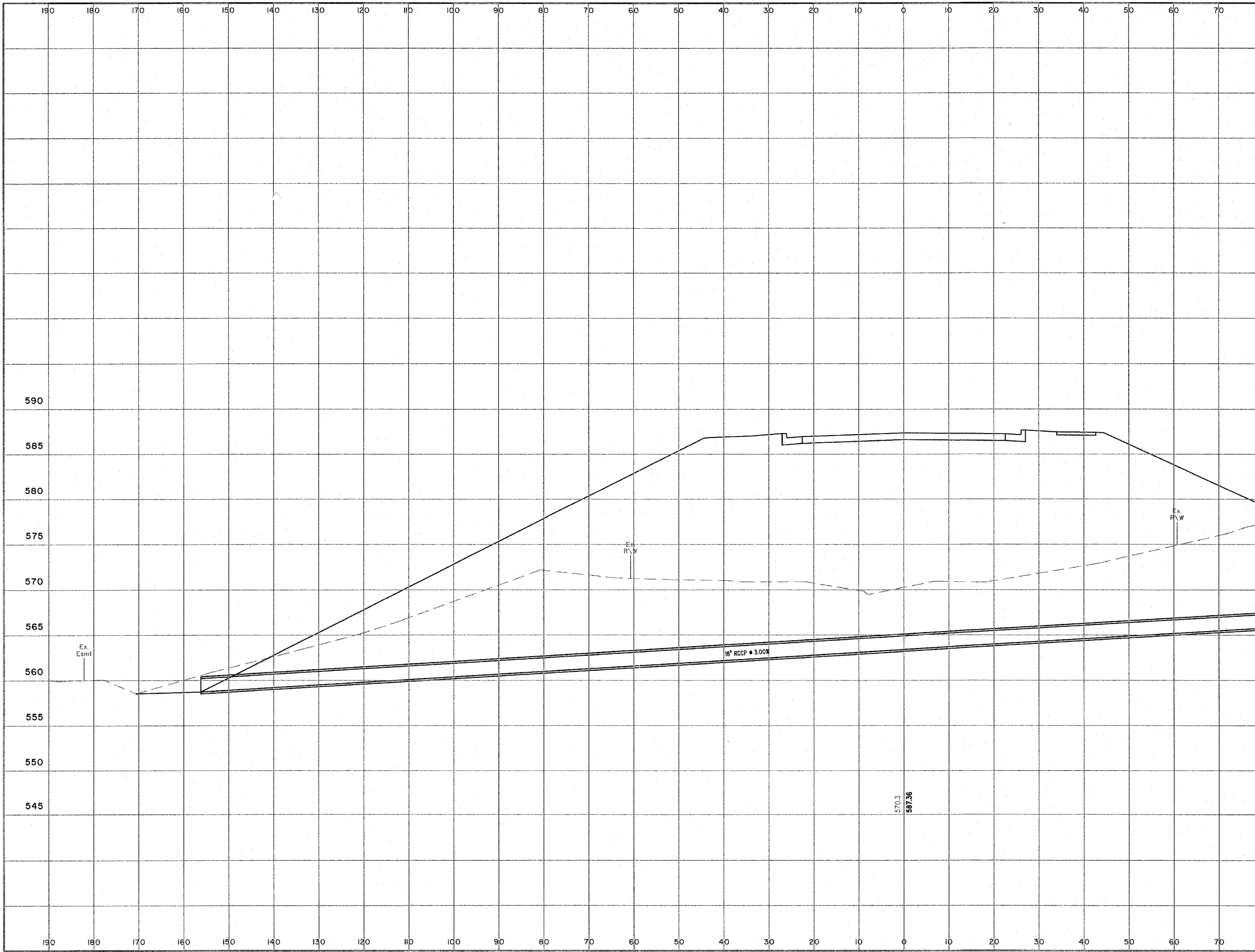


ROUTE NO. FAU 8384	SECTION *	COUNTY EFFINGHAM	TOTAL SHEETS 95	SHEET NO. 94
FED. ROAD DIST. NO. 7		BLINDS	FED. AID PROJECT-HP7-409014	
* SECTION 05-00094-01-PV SECTION 03-00098-00-BR CONTRACT #95503				

120 130 140 150

130 140 150
 10'
 150°
 CULVERT AT 427+76.20

ROUTE NO. FAU 8384	SECTION *	COUNTY EFFINGHAM	TOTAL SHEETS 95	SHEET NO. 95
FED. ROAD DIST. NO. 7		ALIGN.	FED. AID PROJECT-IMP-409241	
* SECTION 05-00094-01-PV SECTION 03-00098-00-BR CONTRACT #95503				



90 100 110
CULVERT AT 430+77.63

