ROUTE NO.	SECTION	LOCATION	TOTAL SHEETS	SHEET NO.
F.A.P. 840	•	KANKAKEE	104	1
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

• 140 R, TS

P-93-022-01
D-93-030-01

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FAP 840 (ILL RTE 50)
SECTION 140 R, TS
PROJECT ACF-840(45)
KANKAKEE COUNTY
C-93-058-01

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	EXISTING TYPICAL SECTIONS
6	PROPOSED TYPICAL SECTIONS - ILL. RTE. 50
7	PROPOSED TYPICAL SECTIONS - INDIAN OAKS ROAD & ST. GEORGE ROAD
8-10	SCHEDULE OF QUANTITIES
11	SWING TIES
12-16	PLAN & PROFILE - RELOCATED ILL. RTE. 50
17-21	PLAN & PROFILE - ILL. RTE. 50
22-24	PLAN & PROFILE - INDIAN OAKS ROAD & ST. GEORGE ROAD
25	PLAN & PROFILE - MCKNIGHT ROAD
26-34	CONSTRUCTION STAGING
35-36	PAVEMENT MARKING
37	INTERSECTION DETAILS - MCKNIGHT ROAD
38	INTERSECTION DETAILS - ST. GEORGE ROAD
39	INTERSECTION DETAILS - WEST AVENUE
40-44	TEMPORARY TRAFFIC SIGNALS
45-48	TRAFFIC SIGNAL PLANS
49-51	DETAILS
52-71	CROSS SECTIONS - RELOCATED ILL. RTE. 50
72-78	CROSS SECTIONS - ILL. RTE. 50
79-95	CROSS SECTIONS - INDIAN OAKS ROAD & ST. GEORGE ROAD
96	CROSS SECTIONS - MCKNIGHT ROAD
97	CROSS SECTIONS - WEST AVENUE
98-104	RIGHT-OF-WAY PLANS

HIGHWAY STANDARDS

000001-03	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-01	TEMPORARY EROSION CONTROL SYSTEMS
442201-01	CLASS C AND D PATCHES
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306	PRECAST REINFORCED CONCRETE ELIPITICAL FLARED END SECTION
602301	INLET TYPE A
602306	INLET TYPE B
602401	MANHOLE TYPE A
602601	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701	CAST IRON STEPS
604001	FRAMES AND LIDS, TYPE 1
604006	FRAME AND GRATE, TYPE 3
604011	FRAME AND GRATE, TYPE 3V
604036	GRATE, TYPE 8
606001-01	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTERS
606006	OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B-15.60 (B-6.24)
630001-02	STEEL PLATE BEAM GUARDRAIL
635001	DELINEATORS
635006	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011	REFLECTOR MARKER AND MOUNTING DETAILS
666001	RIGHT OF WAY MARKERS
701001	OFF-ROAD OPERATIONS, 2L 2W, 4.5M (15') MIN. AWAY, FOR SPEEDS ≥ 45 MPH
701006-01	OFF-ROAD OPERATIONS, 2L 2W, 4.5M (15') TO 600 MM (24") AWAY, FOR SPEEDS ≥ 45 MPH
701011	OFF-ROAD MOVING OPERATIONS, 2L 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701201-01	LANE CLOSURE, 2L 2W, DAY ONLY, ON ROAD TO 600 MM (24") OFF-ROAD, FOR SPEEDS ≥ 45 MPH
701301-01	LANE CLOSURE 2L 2W, SHORT TIME OPERATIONS
701306	LANE CLOSURE, 2L 2W, SLOW MOVING DAY ONLY OPERATIONS, FOR SPEEDS ≥ 45 MPH
701311-02	LANE CLOSURE, 2L 2W, MOVING DAY ONLY OPERATIONS
701326-01	LANE CLOSURE, 2L 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701406-02	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH
701602	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
702001-02	TRAFFIC CONTROL DEVICES
720016	MAST ARM MOUNTED STREET NAME SIGNS
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001	CONCRETE HANDHOLES
814006	DOUBLE HANDHOLES
834011	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
838001-01	CONCRETE FOUNDATION DETAILS
840006	TRAFFIC SIGNAL MOUNTING DETAILS
846001	DETECTOR LOOP INSTALLATIONS
846006	TYPICAL LAYOUT FOR DETECTION LOOPS
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
866001	ELECTRICAL SERVICE INSTALLATION DETAILS

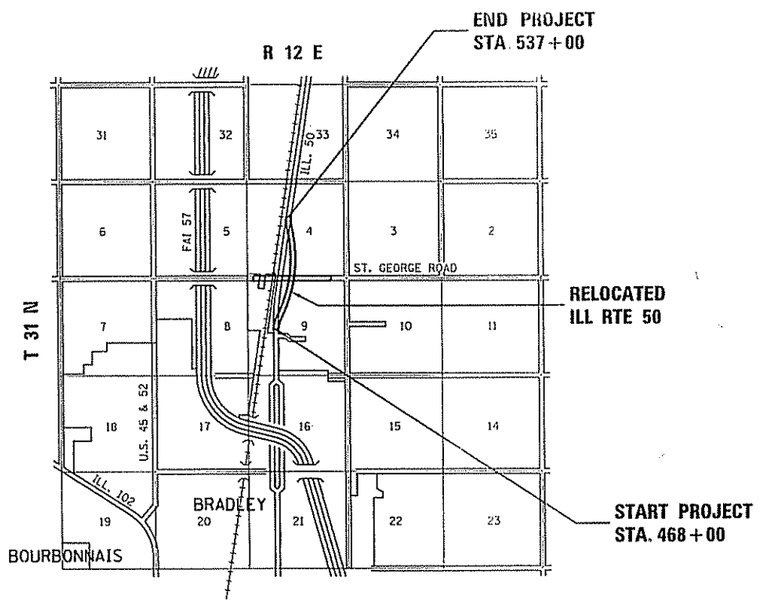
MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS _____

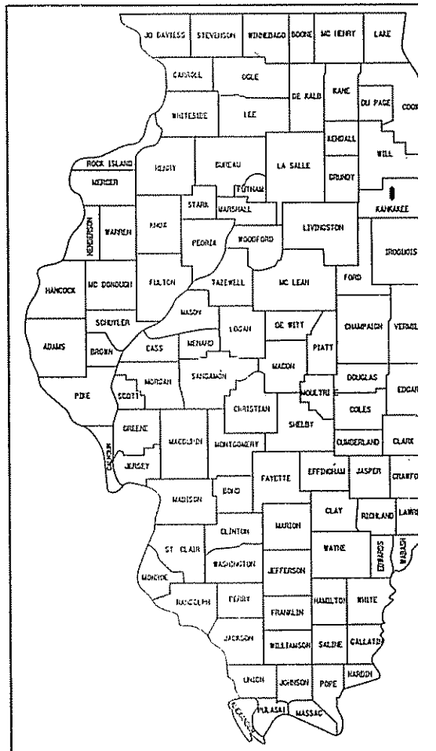
JULIE 1-800-892-0123

DISTRICT 3 NO. (815) 434-6131

PROJECT ENGINEER: RICK POWELL
UNIT CHIEF:
TOWNSHIP: BOURBONNAIS

CONTRACT NO. 66172





LOCATION OF SECTION INDICATED THUS: -■-

FUNCTIONAL CLASSIFICATION: URBAN OTHER PRINCIPAL ARTER

SECTION 140 R, TS

ADT = 13000 (2001)
PV = 92.6%
MU = 4.7%
SU = 2.7%

NET LENGTH OF SECTION 6900' (1.307 MILE)
GROSS LENGTH OF SECTION 6900' (1.307 MILE)

3/21/01
date

JAMES K. CLIFFORD
LICENSED PROFESSIONAL ENGINEER NO. 062-041793
STATE OF ILLINOIS
expires 11-30-2001
signature

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JULY 16 2001
DISTRICT ENG

PASSED August 17, 2001
ENGINEER OF DESIGN AND ENVIRO

APPROVED August 17, 2001
DIRECTOR, DIVISION OF HI

F.A.P. RTE.	SECTION	COUNTY
840	140 R, TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1000-2A	TRAFFIC SIGNALS Y031-1F	Y030-1E
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	219	219	--	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	74	74	--	
20200100	EARTH EXCAVATION	CU YD	36567	36567	--	
20200800	GRADING AND SHAPING DITCHES	FOOT	230	230	--	
20500150	EMBANKMENT	CU YD	30446	30446	--	
20800150	TRENCH BACKFILL	CU YD	100.4	100.4	--	
25000210	SEEDING, CLASS 2A	ACRE	24.8	24.8	--	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2232	2232	--	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2232	2232	--	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2232	2232	--	
25100115	MULCH, METHOD 2	ACRE	24.8	24.8	--	
25100630	EROSION CONTROL BLANKET	SQ YD	1190	1190	--	
25200110	SODDING, SALT TOLERANT	SQ YD	1587	1587	--	
25200200	SUPPLEMENTAL WATERING	UNIT	35	35	--	
28000300	TEMPORARY DITCH CHECK	EACH	26	26	--	
28000400	PERIMETER EROSION BARRIER	FOOT	2000	2000	--	
28100105	STONE RIPRAP, CLASS A3	SQ YD	39	39	--	
35101100	AGGREGATE BASE COURSE, TYPE A 12"	SQ YD	51569	51569	--	
35500605	BITUMINOUS BASE COURSE 9 1/4"	SQ YD	3231	3231	--	
35500800	BITUMINOUS BASE COURSE 11"	SQ YD	473	473	--	
35600500	BITUMINOUS CONCRETE BASE COURSE WIDENING 10 INCHES	SQ YD	149	149	--	
35600510	BITUMINOUS CONCRETE BASE COURSE WIDENING 11 INCHES	SQ YD	260	260	--	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	118	118	--	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1614	1614	--	
40600300	AGGREGATE (PRIME COAT)	TON	8.3	8.3	--	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	23	23	--	
40600895	CONSTRUCTING TEST STRIP	EACH	2	2	--	
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	855	855	--	
40600990	TEMPORARY RAMP	SQ YD	117.2	117.2	--	
40701131	BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH), TYPE 1 12 1/2"	SQ YD	39224.5	39224.5	--	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	104.9	104.9	--	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	2641.5	2641.5	--	
44000006	BITUMINOUS SURFACE REMOVAL 1 1/2"	SQ YD	1246	1246	--	
44000100	PAVEMENT REMOVAL	SQ YD	33080	33080	--	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	302.2	302.2	--	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	7478	7478	--	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	186	186	--	
48200600	BITUMINOUS SHOULDERS, 8"	SQ YD	1037.8	1037.8	--	
50105200	REMOVE EXISTING CULVERTS	EACH	9	9	--	
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	74	74	--	
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	92	92	--	
542A5473	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 18"	FOOT	86	86	--	
X2500250	TEMPORARY EROSION CONTROL SEEDING	LBS	2480	2480		

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSP

SUMMARY OF QUANTI
ILL. RTE. 50
F.A.P. ROUTE 840 - SECTIO
KANKAKEE COUNT

SCALE: VERT. HORIZ.
DATE
DRAW
CHEC

ed0300\consult\final\sums.dgn

F.A.P. RTE.	SECTION	COUNTY
840	140 R, TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1000-2A	TRAFFIC SIGNALS Y031-1F	Y030-1E
542A5476	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 21"	FOOT	90	90	--	
542A5503	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 48"	FOOT	84	84	--	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	164	164	--	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	129	129	--	
542D0226	PIPE CULVERTS, CLASS D, TYPE 1 21"	FOOT	36	36	--	
542D0232	PIPE CULVERTS, CLASS D, TYPE 1 27"	FOOT	82	82	--	
54213450	END SECTIONS 15"	EACH	6	6	--	
54213453	END SECTIONS 18"	EACH	4	4	--	
54213456	END SECTIONS 21"	EACH	2	2	--	
54213462	END SECTIONS 27"	EACH	4	4	--	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	87	87	--	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	3	3	--	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	3	3	--	
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2	--	
54214503	PRECAST REINFORCED CONCRETE FLARED END SECTIONS EQUIVALENT ROUND-SIZE 18"	EACH	2	2	--	
54214506	PRECAST REINFORCED CONCRETE FLARED END SECTIONS EQUIVALENT ROUND-SIZE 21"	EACH	2	2	--	
54214533	PRECAST REINFORCED CONCRETE FLARED END SECTIONS EQUIVALENT ROUND-SIZE 48"	EACH	2	2	--	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	1128	1128	--	
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	162	162	--	
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	146	146	--	
60221100	MANHOLES, TYPE A, 5' - DIAMETER, TYPE 1 FRAME CLOSED LID	EACH	2	2	--	
60221200	MANHOLES, TYPE A, 5' - DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1	--	
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	19	19	--	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1	--	
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	2	2	--	
60240301	INLETS, TYBE B, TYPE 8 GRATE	EACH	1	1	--	
60255500	MANHOLES TO BE ADJUSTED	EACH	6	6	--	
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1	--	
60260100	INLETS TO BE ADJUSTED	EACH	2	2	--	
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2	--	
60500040	REMOVING MANHOLES	EACH	14	14	--	
60500060	REMOVING INLETS	EACH	32	32	--	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	9.5	9.5	--	
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	46	46	--	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	16472.5	16472.5	--	
60618300	CONCRETE MEDIAN SURFACE, 4"	SQ FT	469	469	--	
60619600	CONCRETE MEDIAN, TYPE SB - 6.12	SQ FT	1200	1200	--	
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	8650	8650	--	
61100605	MISCELLANEOUS CONCRETE	CU YD	1	1	--	
61101005	STORM SEWERS, PROTECTED, CLASS A, 4"	FOOT	80	80	--	
61101007	STORM SEWERS, PROTECTED, CLASS A, 6"	FOOT	20	20	--	
61101009	STORM SEWERS, PROTECTED, CLASS A, 8"	FOOT	20	20	--	
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	8	8	--	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPO

SUMMARY OF QUANTI
ILL. RTE. 50
F.A.P. ROUTE 840 - SECTION
KANKAKEE COUNT

SCALE: VERT. HORIZ.
DATE
DRAWN
CHECK

ed03001\consulf\Final\sums.dgn

F.A.P. RTE.	SECTION	COUNTY
840	140 R, TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1000-2A	TRAFFIC SIGNALS Y031-1F	Y030-1E
61139800	STORM SEWERS, SPECIAL 4"	FOOT	100	100	--	
61139900	STORM SEWERS, SPECIAL 6"	FOOT	500	500	--	
61140000	STORM SEWERS, SPECIAL 8"	FOOT	100	100	--	
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	37.5	37.5	--	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	--	
66411900	TEMPORARY FENCE	FOOT	19.5	19.5	--	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	57	57	--	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	8	8	--	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	--	
67100100	MOBILIZATION	L SUM	1	1	--	
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1	--	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	100	100	--	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	400	400	--	
70300200	TEMPORARY PAVEMENT MARKING	FOOT	19708	19708	--	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2640	2640	--	
• 72000100	SIGN PANEL, TYPE 1	SQ FT	58	--	58	
• 72000200	SIGN PANEL, TYPE 2	SQ FT	30	--	30	
• 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	808.8	808.8	--	
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	41629	41629	--	
• 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4780	4780	--	
• 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	2198	2198	--	
• 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1638	1638	--	
• 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	339	339	--	
• 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	551	551	--	
• 78200300	PRISMATIC CURB REFLECTOR	EACH	22	22	--	
• 78200400	GUARDRAIL REFLECTORS	EACH	4	4	--	
• 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	--	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	100	100	--	
• 81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	798	10	788	
• 81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	1787	516	1271	
• 81012700	CONDUIT IN TRENCH, 2-1/2" DIA., PVC	FOOT	78	--	78	
• 81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	265	--	265	
• 81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	26	--	26	
• 81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	132	--	132	
• 81101000	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL	FOOT	10	--	10	
• 81400400	CONCRETE HANDHOLE	EACH	8	1	7	
• 81400600	CONCRETE DOUBLE HANDHOLE	EACH	1	--	1	
• 82202110	ELECTRIC CABLE IN CONDUIT, 600 V (XLP - TYPE USE) 1/C NO. 10	FOOT	3872	--	2199	1673
• 82401240	ELECTRIC CABLE IN CONDUIT SIGNAL NO. 14 5/C	FOOT	3271	--	3271	
• 82401250	ELECTRIC CABLE IN CONDUIT SIGNAL NO. 14 7/C	FOOT	1946	--	1946	
• 82401300	ELECTRIC CABLE IN CONDUIT LEAD-IN NO. 14, 1-PAIR	FOOT	8643	--	8643	
• 82401800	ELECTRIC CABLE IN CONDUIT SERVICE NO. 6 2/C	FOOT	36	--	36	
• 82402240	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL NO. 14 5/C	FOOT	2198	--	2198	
• 82402250	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL NO. 14 7/C	FOOT	1405	--	1405	

• SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPO

SUMMARY OF QUANTI
ILL. RTE. 50
F.A.P. ROUTE 840 - SECTION
KANKAKEE COUNTY

SCALE: VERT. HORIZ.
DATE
DRAWN
CHECK

ed0300\consult\final\sums.dgn

F.A.P. RTE.	SECTION	COUNTY
840	140 R, TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY TRAFFIC SIGNALS I000-2A	Y031-1F	Y030-1E
• 82600100	SPAN WIRE	FOOT	521	--	521	
• 82600200	TETHER WIRE	FOOT	521	--	521	
• 83029500	LIGHT POLE, STEEL, 35' M.H., 12' MAST ARM	EACH	1	--	--	1
• 83101500	WOOD POLE, 25 FT., CLASS 5	EACH	1	--	1	
• 83202490	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 15 FT.	EACH	2	--	2	
• 83403000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	4	--	4	
• 83600100	LIGHT POLE FOUNDATION	EACH	1	--	--	1
• 83800100	CONCRETE FOUNDATION, TYPE A	FOOT	6.7	--	6.7	
• 83800200	CONCRETE FOUNDATION, TYPE D	FOOT	14	--	14	
• 83800400	CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	69.3	--	69.3	
• 84020150	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION POST MOUNTED	EACH	2	--	2	
• 84020160	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5	--	5	
• 84020170	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8	--	8	
• 84020180	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	8	--	8	
• 84020270	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4	--	4	
• 84020280	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4	--	4	
• 84020290	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED	EACH	3	--	3	
• 84200100	TRAFFIC SIGNAL BACKPLATE	EACH	34	--	34	
• 84400250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250-WATT	EACH	5	--	4	1
• 84600100	INDUCTIVE LOOP DETECTOR	EACH	19	--	19	
• 84700100	DETECTOR LOOP, TYPE 1	FOOT	2714	--	2714	
• 85500110	LIGHTING CONTROLLER TYPE CB-RCS 60 AMP - 240 VOLT	EACH	1	--	--	1
• 85700200	FULL ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2	--	2	
• 86700105	SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1	--	1	
• 86800100	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2474	526	1948	
• 87302500	REMOVE TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	--	2	
X4066526	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	1537.5	1537.5	--	
X4066656	POLYMERIZED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	TON	1247.6	1247.6	--	
X4066770	LEVELING BINDER (MACHINE METHOD) SUPERPAVE, N70	TON	3392.3	3392.3	--	
X4067400	QC/QA BITUMINOUS	TON	36301.7	36301.7	--	
X6020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH	69	69	--	
X6020075	INLETS, TYPE B, TYPE 3V FRAME AND GRATE	EACH	3	3	--	
Z0000990	AGGREGATE FOR TEMPORARY ACCESS	TON	635	635	--	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	--	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	--	
• 83103720	TRAFFIC SIGNAL WOOD POLE, 50 FT. CLASS 4	EACH	4	--	4	
X7200300	ILLINOIS FIRST SIGN	EACH	4	4		
•	SPECIALTY ITEMS					

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPO

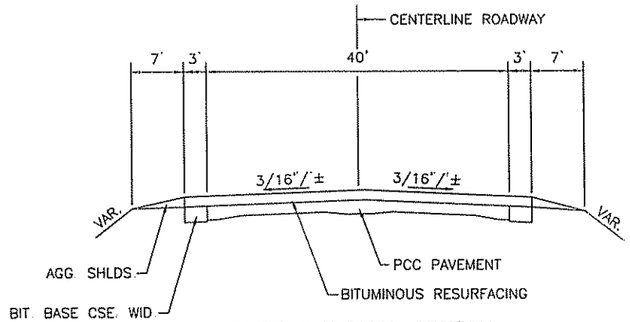
SUMMARY OF QUANTI
ILL. RTE. 50
F.A.P. ROUTE 840 - SECTION
KANKAKEE COUNTY

SCALE: VERT. HORIZ.
DATE
DRAWN
CHECKE

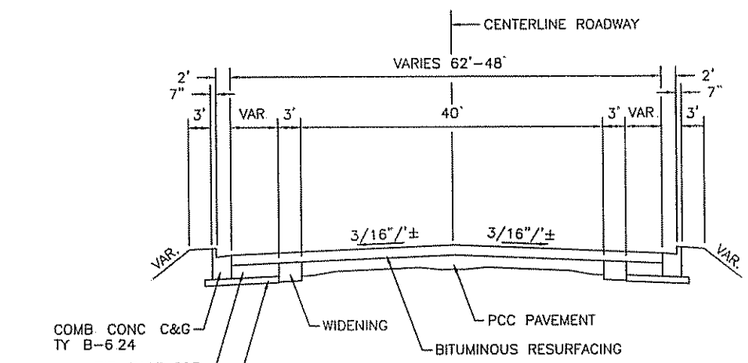
ed0300\consult\final\sums.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	5
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

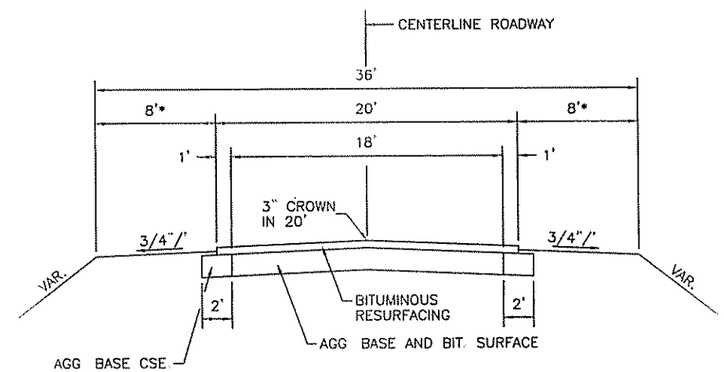
* 140 R.TS



EXISTING TYPICAL SECTION
STA. 62+29.70 TO STA. 93+71.51

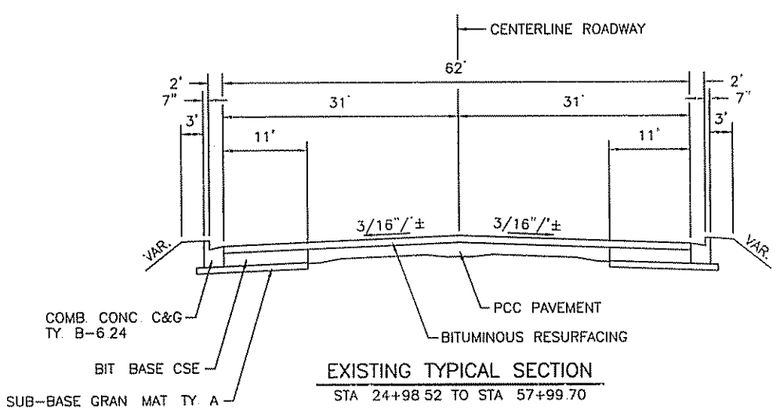


EXISTING TYPICAL SECTION
STA. 57+99.70 TO STA. 62+29.70



* VARIES FOR INDIAN OAKS RO.

EXISTING TYPICAL SECTION
ST. GEORGE ROAD
(INDIAN OAKS ROAD SIMILAR)



EXISTING TYPICAL SECTION
STA. 24+98.52 TO STA. 57+99.70

EXISTING TYPICAL SECTIONS
ILL. RTE. 50
F.A.P. ROUTE 840 – SECTION 140
KANKAKEE COUNTY

	SUPERPAVE BINDER AND TOP LIFT OF FULL DEPTH BINDER	SUPERPAVE SURFACE	SUPERPAVE BINDER FULL DEPTH LOWER LIFTS	SUPERPAVE LEVEL BINDER	BSE CSE AND BSE CSE WIDENING
PG GRADE	PG64-28 SBS OR SBR	PG64-28 SBS OR SBR	PB64-22	PG64-22	PG64-22
MAX % RAP ALLOWABLE**	0%	0%	10%	10%	10%
DESIGN AIR VOIDS	4.0% @ N70	4.0% @ N70	4.0% @ N70	4.0% @ N70	4.0% @ N70
MIXTURE COMPOSITION	IL 19.0	IL 12.5 OR IL 9.5	IL 19.0	IL 9.5	IL 19.0
FRICTION AGGREGATE		MIXTURE D			

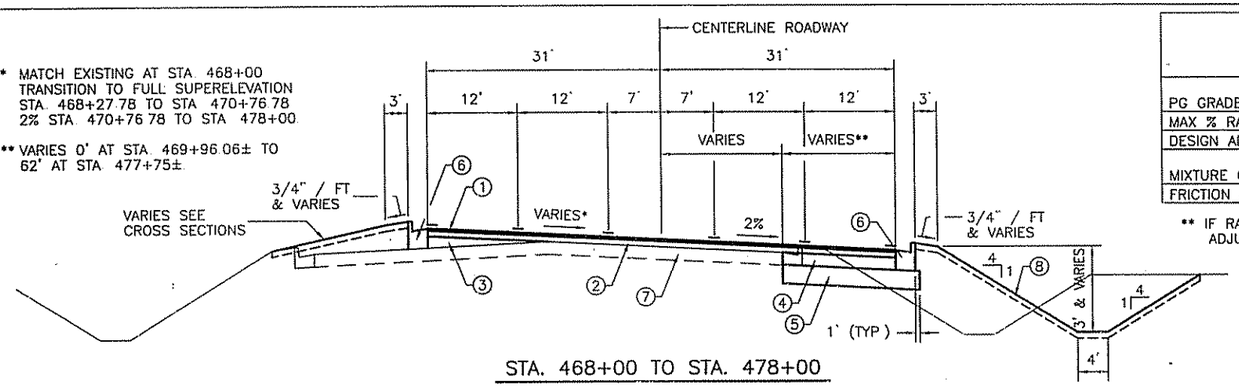
** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	6
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

* 140 R,TS

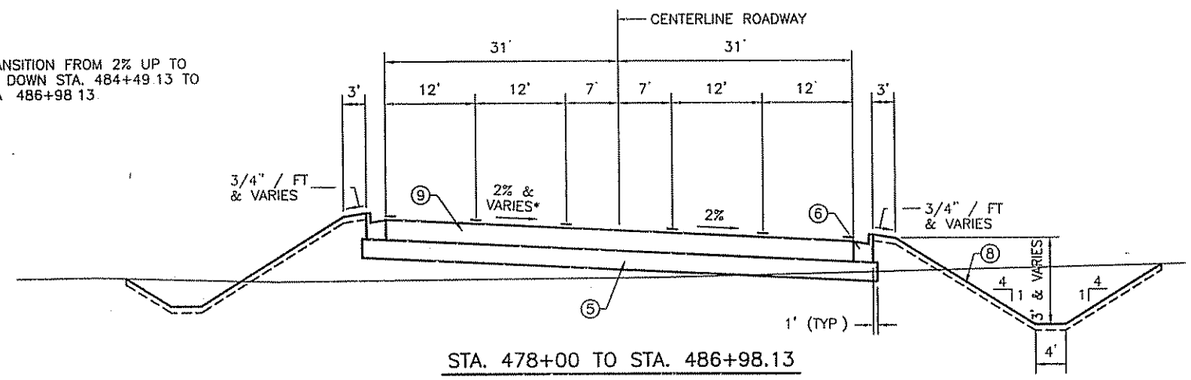
* MATCH EXISTING AT STA. 468+00. TRANSITION TO FULL SUPERELEVATION STA. 468+27.78 TO STA. 470+76.78. 2% STA. 470+76.78 TO STA. 478+00.

** VARIES 0' AT STA. 469+96.06± TO 62' AT STA. 477+75±.



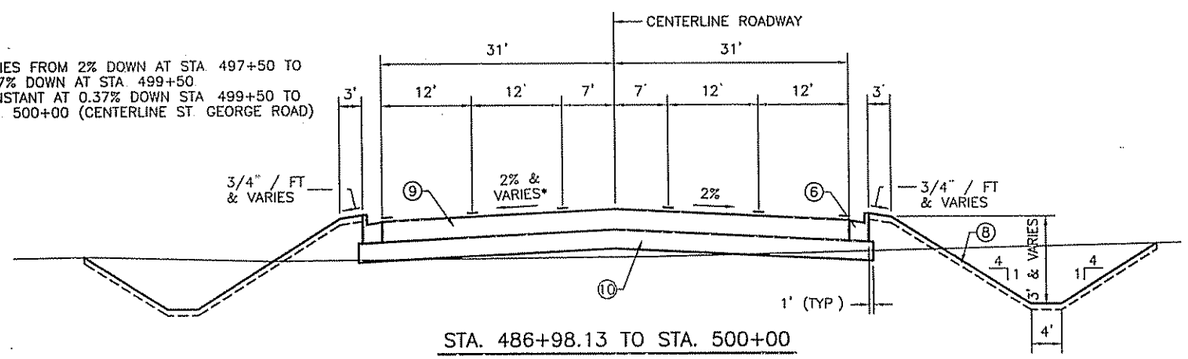
STA. 468+00 TO STA. 478+00

* TRANSITION FROM 2% UP TO 2% DOWN STA. 484+49.13 TO STA. 486+98.13.



STA. 478+00 TO STA. 486+98.13

* VARIES FROM 2% DOWN AT STA. 497+50 TO 0.37% DOWN AT STA. 499+50. CONSTANT AT 0.37% DOWN STA. 499+50 TO STA. 500+00 (CENTERLINE ST. GEORGE ROAD)

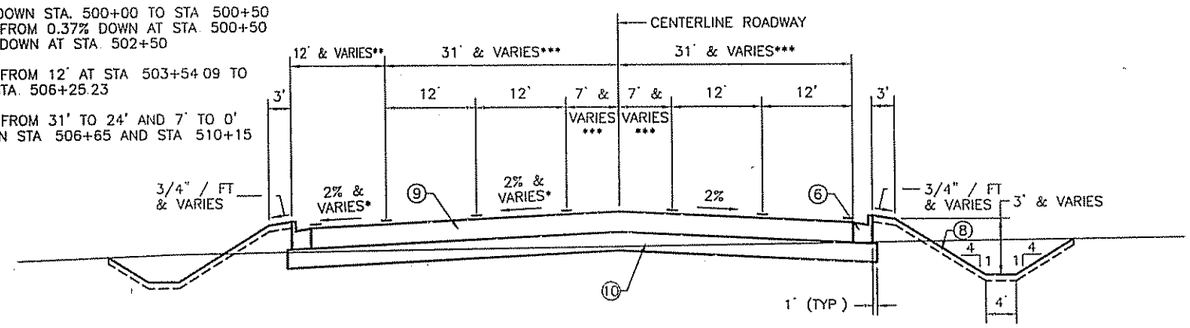


STA. 486+98.13 TO STA. 500+00

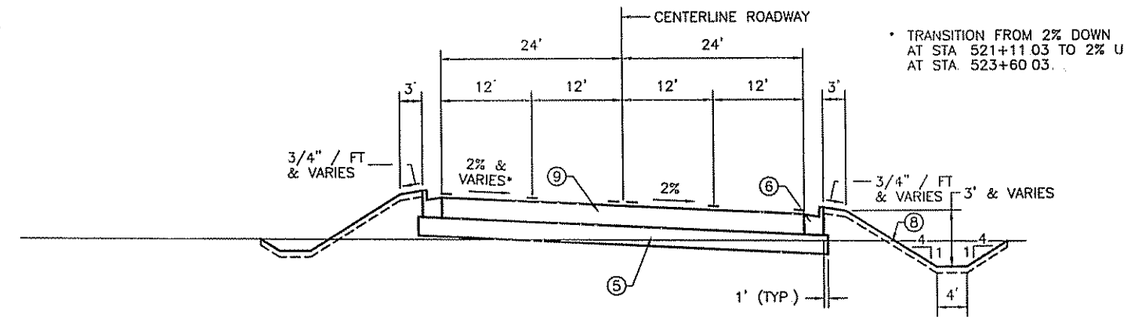
* 0.37% DOWN STA. 500+00 TO STA. 500+50. VARIES FROM 0.37% DOWN AT STA. 500+50 TO 2% DOWN AT STA. 502+50.

** VARIES FROM 12' AT STA. 503+54.09 TO 0' AT STA. 506+25.23.

*** VARIES FROM 31' TO 24' AND 7' TO 0' BETWEEN STA. 506+65 AND STA. 510+15.



STA. 500+00 TO STA. 521+11.03

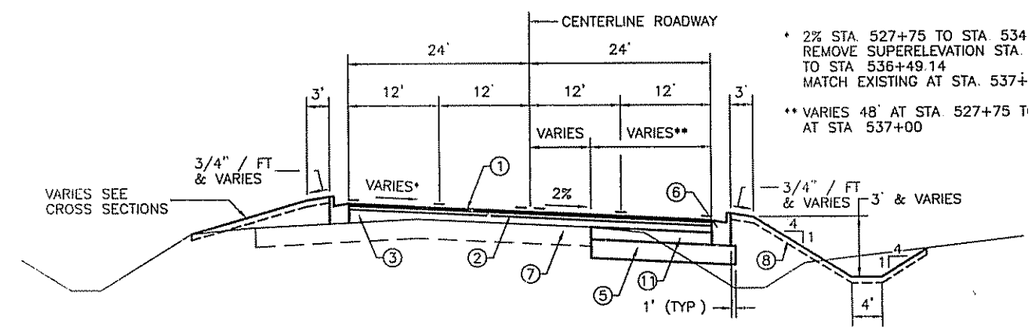


STA. 521+11.03 TO STA. 527+75

* TRANSITION FROM 2% DOWN AT STA. 521+11.03 TO 2% U AT STA. 523+60.03.

* 2% STA. 527+75 TO STA. 534 REMOVE SUPERELEVATION STA. TO STA. 536+49.14 MATCH EXISTING AT STA. 537+

** VARIES 48' AT STA. 527+75 T AT STA. 537+00



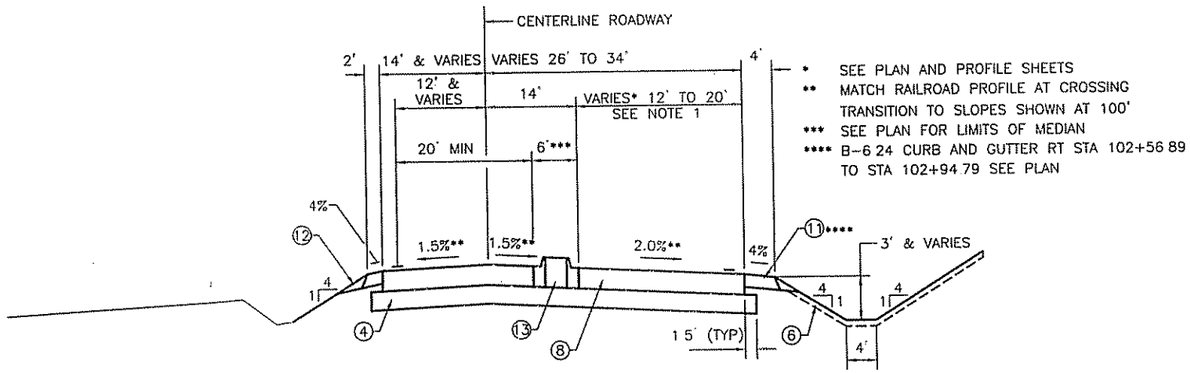
STA. 527+75 TO STA. 537+00

1. POLYMERIZED SURFACE COURSE, MIX D, N70, 1 1/2"
2. POLYMERIZED SUPERPAVE BINDER, IL 19.0, N70, 1 3/4" & VARIES
3. LEVELING BINDER (MACHINE METHOD) SUPERPAVE, N70
4. BITUMINOUS CONCRETE BASE COURSE WIDENING 10" STA. 469+93.78 TO STA. 472+42 OR BITUMINOUS BASE COURSE 9 1/4" STA. 472+42 TO STA. 478+00 (SEE SPECIAL PROVISIONS)
5. SUB-BASE GRANULAR MATERIAL TYPE A 12"
6. COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24
7. EXISTING PAVEMENT
8. VEGETATIVE SUSTAINING SOIL 4" MIN. (SEE SPECIAL PROVISIONS)
9. BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), TYPE 1, 12 1/2"
10. AGGREGATE BASE COURSE, TYPE A 12" EXCEPT THRU INTERSECTION WITH ST. GEORGE ROAD. SEE ST. GEORGE ROAD TYPICAL SECTIONS AND CONSTRUCTION STAGING PLANS FOR CLARIFICATION
11. BITUMINOUS BASE COURSE 9 1/4" STA. 527+75 TO STA. 532+59.00 OR BITUMINOUS CONCRETE BASE COURSE WIDENING 10" STA. 532+59.00 TO STA. 536+49.14

TYPICAL SECTIONS
ILL. RTE. 50
F.A.P. ROUTE 840 – SECTION 140
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

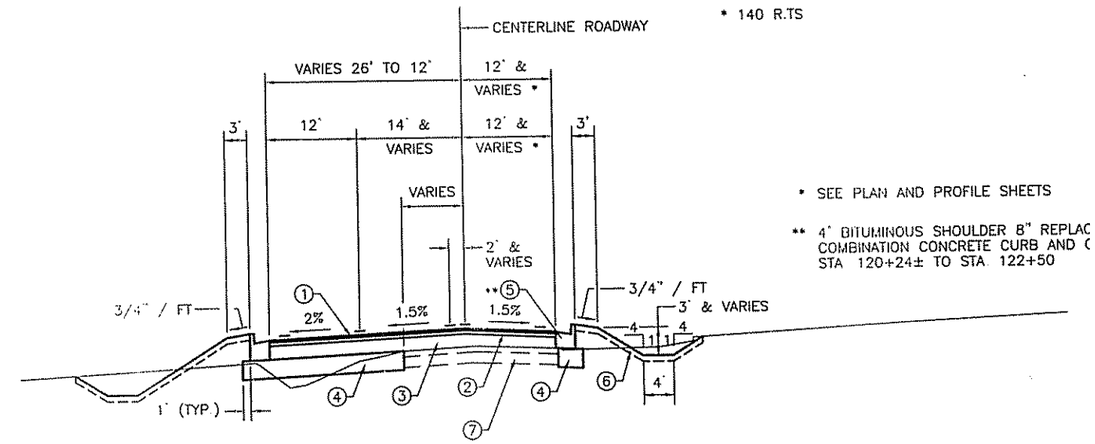
* 140 R.TS



* SEE PLAN AND PROFILE SHEETS
** MATCH RAILROAD PROFILE AT CROSSING TRANSITION TO SLOPES SHOWN AT 100'
*** SEE PLAN FOR LIMITS OF MEDIAN
**** B-6 24 CURB AND GUTTER RT STA 102+56 89 TO STA 102+94 79 SEE PLAN

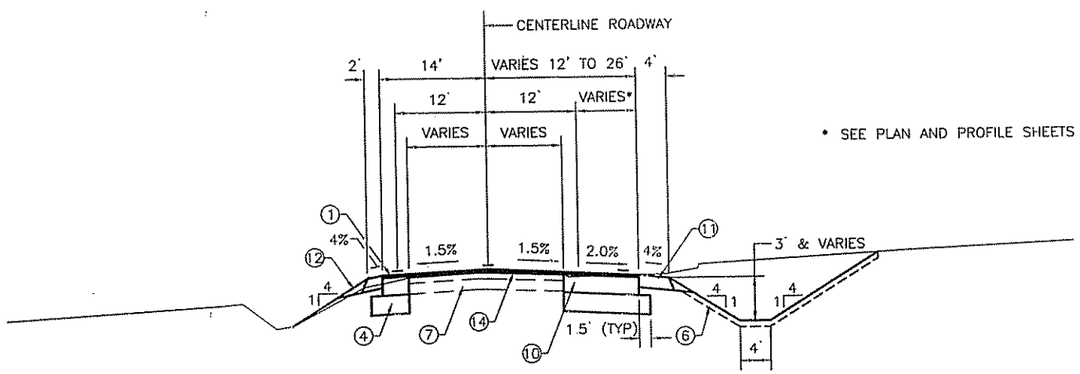
STA. 100+50 TO STA. 103+00.08

NOTE 1: 20' MIN AT RAISED MEDIAN



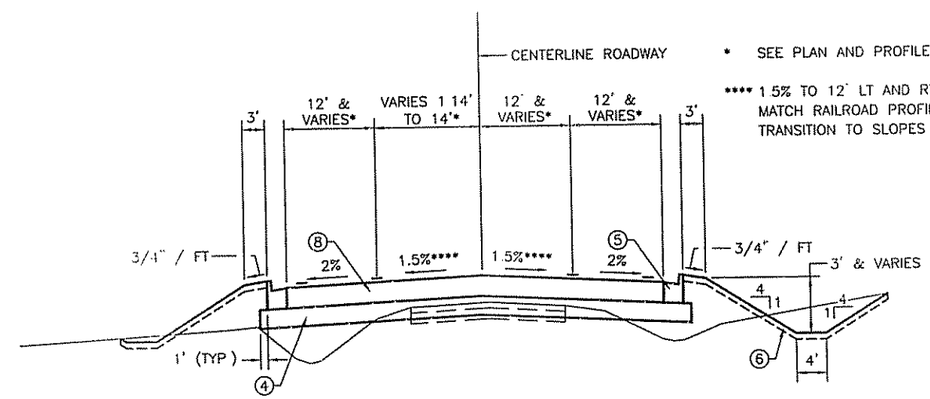
* SEE PLAN AND PROFILE SHEETS
** 4' BITUMINOUS SHOULDER 8" REPLAC
COMBINATION CONCRETE CURB AND C
STA 120+24± TO STA 122+50

STA. 110+50 TO STA. 122+50



* SEE PLAN AND PROFILE SHEETS

STA. 95+06.77 TO STA. 100+50



* SEE PLAN AND PROFILE SHEETS
**** 1.5% TO 12' LT AND RT THEN 2.0% MATCH RAILROAD PROFILE AT CROSSING TRANSITION TO SLOPES SHOWN IN 100'

STA. 103+28.81 TO STA. 110+50

RAISED MEDIAN STA 103+30 29 TO STA 104+30.26 NOT SHOWN FOR CLARITY. SEE PLAN AND PROFILE SHEETS FOR LOCATION. 20' MIN PAVEMENT BETWEEN MEDIAN AND OUTSIDE CURB AND GUTTER EACH SIDE OF MEDIAN

1. POLYMERIZED SURFACE COURSE. MIX D, N70. 1 1/2"
2. POLYMERIZED SUPERPAVE BINDER, IL 19 0, N70, 1 3/4" & VARIES
3. LEVELING BINDER (MACHINE METHOD) SUPERPAVE. N70
4. SUB-BASE GRANULAR MATERIAL TYPE A 12"
5. COMBINATION CONCRETE CURB AND GUTTER TYPE B-6 24
6. VEGETATIVE SUSTAINING SOIL 4" MIN (SEE SPECIAL PROVISIONS)
7. EXISTING PAVEMENT
8. BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), TYPE 1. 12 1/2"
9. NOT USED
10. BITUMINOUS BASE COURSE 11" RT. STA. 96+60 68 TO STA 100+50
    BITUMINOUS CONCRETE BASE COURSE WIDENING
    LT. STA 95+06 77 TO STA 100+50
    RT STA 95+06 77 TO STA 96+60.68
11. BITUMINOUS SHOULDER 8"
12. AGGREGATE SHOULDER TYPE B
13. RAISED MEDIAN SB-6 12
14. BITUMINOUS SURFACE REMOVAL 1 1/2"

TYPICAL SECTIONS
INDIAN OAKS ROAD & ST. GEORGE
F.A.P. ROUTE 840 – SECTION 14
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

*140 R.TS

EARTHWORK QUANTITIES

LOCATION	THEORETICAL CUT	THEORETICAL FILL	SHORTAGE (-) OR EXCESS (+)	REMARKS
	CU YD	CU YD	CU YD	
			(A)-[(B)1 25]	
	(A)	(B)	(C)	
RELOCATED ILL RTE 50	22654	22782	-5824	
ILL RTE 50	7615	2483	+4511	
INDIAN OAKS/ ST GEORGE ROAD	5578	5135	-841	
McKNIGHT ROAD	320	35	+276	
WEST AVENUE	400	11	+386	
TOTAL	36567	30446	-1492	
	PAY ITEM	PAY ITEM	FOR INFO ONLY	

GRADING AND SHAPING DITCHES

LOCATION	FOOT
STA. 39+00	140
STA. 45+84	90
TOTAL	230

SCHEDULE OF BITUMINOUS PAVEMENT QUANTITIES

LOCATION (STA TO STA)	SUB-BASE GRANULAR MATERIAL TYPE A 12"	BITUMINOUS BASE COURSE 9 1/4"	BITUMINOUS BASE COURSE 11"	BITUMINOUS CONCRETE BASE COURSE WIDENING 10"	BITUMINOUS CONCRETE BASE COURSE WIDENING 11"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	BITUMINOUS SURFACE REMOVAL 1 1/2"	LEVELING BINDER (MACHINE METHOD) SUPERPAVE, N70	POLYMERIZED SUPERPAVE BINDER, IL 19.0, N70, 1 3/4" & VARIES	POLYMERIZED SURFACE COURSE, MIX. D, N70, 1 1/2"	BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH), TYPE 1 12 1/2"	BITUMINOUS SHOULDERS 8"	AGGREGATE SHOULDERS TYPE B
	SQ YD	TON	TON	SQ YD	SQ YD	GAL	TON	TON	SQ YD	TON	TON	TON	SQ YD	SQ YD	TON
STA. 468+00 TO STA. 478+00	2336	1901	--	86	--	393	--	10	--	995.1	502.2	587.8	--	--	--
STA. 478+00 TO STA. 499+79.06	17147	--	--	--	--	--	--	--	--	--	--	--	15467.8	--	--
STA. 500+24.88 TO STA. 527+75	19257	--	--	--	--	--	--	--	--	--	--	--	17111.1	--	--
STA. 527+75 TO STA. 537+00	1652	1330	--	63	--	281	--	7	--	857.8	336.8	410.3	--	55.6	38
STA. 95+06.77 TO STA. 100+50	911	--	473	--	260	100	2.5	--	1246	--	--	166.3	--	362.2	74
STA. 100+50 TO STA. 103+00.08*	2350	--	--	--	--	--	--	--	--	--	--	--	2141.0	419.8	43
STA. 103+28.81 TO STA. 110+50	4326	--	--	--	--	--	--	--	--	--	--	--	3705.3	--	--
STA. 110+50 TO STA. 122+50	2590	--	--	--	--	840	5.8	6	--	1539.4	408.6	373.1	--	200.2	31
MCKNIGHT ROAD	1000	--	--	--	--	--	--	--	--	--	--	--	799.3	--	--
* INCLUDES WEST AVENUE															
TOTAL	51569	3231	473	149	260	1614	8.3	23	1246	3392.3	1247.6	1537.5	39224.5	1037.8	186

QC/QA FOR BITUMINOUS CONCRETE

	TON
BITUMINOUS BASE COURSE 9 1/4"	1673.4
BITUMINOUS BASE COURSE 11"	291.4
BITUMINOUS CONCRETE BASE COURSE WIDENING 10"	77.2
BITUMINOUS CONCRETE BASE COURSE WIDENING 11"	160.2
LEVELING BINDER (MACHINE METHOD) SUPERPAVE, N70	3392.3
POLYMERIZED SUPERPAVE BINDER, IL 19.0, N70, 1 3/4" & VARIES	1247.6
POLYMERIZED SURFACE COURSE, MIX. D, N70, 1 1/2"	1537.5
BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH), TYPE 1 12 1/2"	27457.2
BITUMINOUS SHOULDERS	464.9
TOTAL	36301.7

SCHEDULE OF QUANTITIES
ILL RTE 50
SECTION 140 R,TS
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	9
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT-	

* 140 R.TS

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	
LOCATION	FOOT
LT. STA. 468+00 TO STA. 496+00	2974.0
(REL. ILL. RTE. 50)	
RT. STA. 468+00 TO STA. 496+00	2792.5
(REL. ILL. RTE. 50)	
LT. STA. 496+00 (REL. ILL. RTE. 50)	
TO STA. 103+23.7 (INDIAN OAKS ROAD)	878.5
LT. STA. 103+30.8 (INDIAN OAKS ROAD)	
TO STA. 534+22.4 (REL. ILL. RTE. 50)	3916.5
RT. STA. 534+22.4 (REL. ILL. RTE. 50)	
TO LT. STA. 120+00 (ST. GEORGE)	4381.5
RT. STA. 496+00 (REL. ILL. RTE. 50)	
TO RT. STA. 120+00 (ST. GEORGE)	1403.5
RT. 102+56.89 TO STA. 102+94.79	
(ST. GEORGE)	38.0
ISLAND AT MCKNIGHT ROAD INTERSECTION	58.0
ISLAND AT WEST AVE. INTERSECTION	30.0
TOTAL	16472.5

COMBINATION CURB AND GUTTER REMOVAL	
LOCATION	FOOT
LT. STA. 24+98.52 (ILL. RTE. 50)	
TO RT. STA. 199+15 (MCKNIGHT ROAD)	475
LT. STA. 199+15 (MCKNIGHT ROAD)	
TO LT. STA. 39+00 (ILL. RTE. 50)	942
RT. STA. 24+98.52 (ILL. RTE. 50)	
TO RT. STA. 39+00 (ILL. RTE. 50)	1402
LT. & RT. STA. 39+00 TO STA. 54+00	
(ILL. RTE. 50)	3000
LT. STA. 54+00 (ILL. RTE. 50) TO	
RT. STA. 103+59.3 (INDIAN OAKS ROAD)	237
LT. STA. 103+46.2 (INDIAN OAKS ROAD)	
TO LT. STA. 62+30.3 (ILL. RTE. 50)	619
RT. STA. 54+00 TO STA. 54+24.8	
(ILL. RTE. 50)	25
RT. STA. 55+49 (ILL. RTE. 50) TO	
RT. STA. 105+29 (INDIAN OAKS ROAD)	195
LT. STA. 105+12.1 (INDIAN OAKS ROAD)	
TO RT. STA. 62+30.3 (ILL. RTE. 50)	583
TOTAL	7478

	TEMPORARY RAMP	BITUMINOUS SURFACE REMOVAL-BUTT JOINT
LOCATION	SQ YD	SQ YD
STA. 468+00 (REL. ILL. RTE. 50)	34.4	413
STA. 475+00 (REL. ILL. RTE. 50)	21.1	---
STA. 530+00 (REL. ILL. RTE. 50)	13.3	---
STA. 537+00 (REL. ILL. RTE. 50)	25.6	307
STA. 95+06.77 (INDIAN OAKS ROAD)	11.7	---
STA. 122+50 (ST. GEORGE)	11.1	135
TOTAL	117.2	855

	SEEDING CLASS 2A	SODDING SALT TOLERANT
LOCATION	ACRES	SQ. YD.
RELOCATED AND EXISTING ILL RTE 50 SOUTH OF ST. GEORGE ROAD	10.6	---
RELOCATED AND EXISTING ILL RTE 50 NORTH OF ST. GEORGE ROAD	11.5	---
INDIAN OAKS ROAD	1.2	---
ST. GEORGE ROAD	1.5	---
RT STA 99+50 (INDIAN OAKS ROAD) TO RT. STA. 298+26.36 (WEST AVENUE)	---	1010
RT STA 110+39 6 TO RT STA 112+99 5 (ST. GEORGE ROAD)	---	577
TOTAL	24.8	1587

	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REFLECTORS	TERMINAL MARKER-DIRECT APPLIED
	EACH	EACH	EACH
LT. STA. 100+16.25 TO 101+53.75	2	4	2
TOTAL	2	4	2

CLASS SI CONCRETE (OUTLET)	
LOCATION	CU YD
LT. & RT. STA. 120+00 (ST. GEORGE)	9.5
TOTAL	9.5

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	
LOCATION	FOOT
ISLAND AT MCKNIGHT ROAD INTERSECTION	32
ISLAND AT WEST AVE. INTERSECTION	14
TOTAL	46

STEEL PLATE BEAM GUARD RAIL TYPE A	
LOCATION	FOOT
LT. STA. 100+16.25 TO 101+53.75	37.5
TOTAL	37.5

TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
LOCATION	UNIT
39.7' RT. STA. 110+39 (ST. GEORGE)	6
3' RT. STA. 526+41 (REL. RTE. 50)	8
15.7' RT. STA. 526+43 (REL. RTE. 50)	4 @ 8
39.4' RT. STA. 531+31 (REL. RTE. 50)	4 @ 6
45.8' RT. STA. 532+77 (REL. RTE. 50)	8
41.1' RT. STA. 532+89 (REL. RTE. 50)	8
37.6' RT. STA. 533+53 (REL. RTE. 50)	14
37.3' RT. STA. 534+14 (REL. RTE. 50)	2 @ 12
41.2' RT. STA. 535+21 (REL. RTE. 50)	12
39.2' RT. STA. 535+70 (REL. RTE. 50)	12
28.3' RT. STA. 298+40 (WEST AVE.)	12
28.9' RT. STA. 298+68 (WEST AVE.)	12
27.7' LT. STA. 298+71 (WEST AVE.)	10
30.1' RT. STA. 299+01 (WEST AVE.)	8
27.4' LT. STA. 299+13 (WEST AVE.)	6
32.3' RT. STA. 299+28 (WEST AVE.)	8
34.4' RT. STA. 299+51 (WEST AVE.)	15
TOTAL	219

CONCRETE MEDIAN, TYPE SB-6.12	
LOCATION	SQ FT
STA. 101+99.6 TO STA. 102+98.8	581
STA. 103+26.8 TO STA. 104+32.3	619
TOTAL	1200

PAVEMENT REMOVAL	
LOCATION (ILL. RTE. 50)	SQ YD
STA. 30+30.18 TO STA. 39+00	4426
STA. 39+00 TO STA. 54+00	10279
STA. 54+00 TO STA. 69+00	9555
STA. 69+00 TO STA. 84+00	7698
STA. 84+00 TO STA. 88+81.70	1122
TOTAL	33080

DRIVEWAY PAVEMENT REMOVAL	
LOCATION (ILL. RTE. 50)	SQ YD
LT. STA. 26+36.4	56.2
RT. STA. 26+85.6	28.5
LT. STA. 27+93.9	45.1
LT. STA. 31+25.4	62.5
LT. STA. 40+82.5	48.4
LT. STA. 42+60.2	61.5
TOTAL	302.2

TREE REMOVAL (OVER 15 UNITS DIAMETER)	
LOCATION	UNIT
54.6' RT. STA. 526+35 (REL. RTE. 50)	30
8.6' RT. STA. 526+39 (REL. RTE. 50)	20
35.6' RT. STA. 532+04 (REL. RTE. 50)	24
TOTAL	74

CONCRETE MEDIAN SURFACE 4"	
LOCATION	SQ FT
ISLAND AT MCKNIGHT ROAD INTERSECTION	379
ISLAND AT WEST AVE. INTERSECTION	90
TOTAL	469

TRAFFIC CONTROL PAY ITEMS

	UNIT	TOTAL	STAGE 1	STAGE 2	STAGE 3
TEMPORARY PAVEMENT MARKING	FOOT	19708	2927	6476	10305
WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2640	217	271	2152
SHORT TERM PAVEMENT MARKING	FOOT	400	--	--	400

SCHEDULE OF QUANTITIES
ILL RTE 50
SECTION 140 R,TS
KANKAKEE COUNTY

FAP 840	•	KANKAKEE	104	10

• 140 R.TS

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

LOCATION	EACH
43.47' RT. STA. 467+97.72 (REL. ILL. RTE. 50)	1
49.12' LT. STA. 471+57.74 (REL. ILL. RTE. 50)	1
112.00' LT. STA. 472+31.91 (REL. ILL. RTE. 50)	1
70.00' RT. STA. 472+70.30 (REL. ILL. RTE. 50)	1
175.00' LT. STA. 472+94.07 (REL. ILL. RTE. 50)	1
102.30' LT. STA. 473+12.01 (REL. ILL. RTE. 50)	1
61.51' LT. STA. 473+78.94 (REL. ILL. RTE. 50)	1
70.00' RT. STA. 485+32.13 (REL. ILL. RTE. 50)	1
210.90' LT. STA. 485+53.82 (REL. ILL. RTE. 50)	1
70.00' LT. STA. 486+00 (REL. ILL. RTE. 50)	1
70.00' LT. & RT. STA. 489+83.61 (REL. ILL. RTE. 50)	2
70.00' RT. STA. 494+00 (REL. ILL. RTE. 50)	1
70.00' LT. & 75.00' RT. STA. 496+00 (REL. ILL. RTE. 50)	2
83.76' LT. STA. 497+36.15 (REL. ILL. RTE. 50)	1
80.00' RT. STA. 497+75.29 (REL. ILL. RTE. 50)	1
153.27' RT. STA. 497+88.48 (REL. ILL. RTE. 50)	1
112.00' LT. STA. 501+00 (REL. ILL. RTE. 50)	1
99.09' RT. STA. 501+26.34 (REL. ILL. RTE. 50)	1
75.00' LT. STA. 502+00 (REL. ILL. RTE. 50)	1
60.00' RT. STA. 504+50 (REL. ILL. RTE. 50)	1
70.00' LT. STA. 505+00 (REL. ILL. RTE. 50)	1
65.00' LT. STA. 506+00 (REL. ILL. RTE. 50)	1
65.00' LT. & 60.00' RT. STA. 518+15.65 (REL. ILL. RTE. 50)	2
65.00' LT. STA. 521+50 (REL. ILL. RTE. 50)	1
133.04' LT. STA. 521+62.02 (REL. ILL. RTE. 50)	1
60.00' RT. STA. 522+77.03 (REL. ILL. RTE. 50)	1
60.00' RT. STA. 526+88.62 (REL. ILL. RTE. 50)	1
60.00' RT. STA. 534+83.14 (REL. ILL. RTE. 50)	1
45.72' RT. STA. 93+71.51 (OLD ILL. RTE. 50)	1
30.90' RT. STA. 94+25 (INDIAN OAKS ROAD)	1
45.00' RT. STA. 95+25 (INDIAN OAKS ROAD)	1
45.00' RT. STA. 96+06.57 (INDIAN OAKS ROAD)	1
45.00' RT. STA. 97+00 (INDIAN OAKS ROAD)	1
55.00' RT. STA. 98+50 (INDIAN OAKS ROAD)	1
58.42' RT. STA. 99+52.61 (INDIAN OAKS ROAD)	1
59.43' RT. STA. 99+82.82 (INDIAN OAKS ROAD)	1
60.00' RT. STA. 100+00 (INDIAN OAKS ROAD)	1
90.00' RT. STA. 100+93.79 (INDIAN OAKS ROAD)	1
170.00' RT. STA. 101+02.22 (INDIAN OAKS ROAD)	1
63.00' RT. STA. 104+76.44 (INDIAN OAKS ROAD)	1
60.00' LT. STA. 104+94.31 (INDIAN OAKS ROAD)	1
60.00' LT. STA. 107+00.00 (INDIAN OAKS ROAD)	1
63.00' RT. STA. 107+91.43 (INDIAN OAKS ROAD)	1
61.24' RT. STA. 110+39.58 (ST. GEORGE ROAD)	1
61.00' LT. & 35.69' RT. STA. 110+84.33 (ST. GEORGE ROAD)	2
35.32' RT. STA. 112+99.54 (ST. GEORGE ROAD)	1
47.00' RT. STA. 112+99.56 (ST. GEORGE ROAD)	1
61.00' LT. STA. 116+15.27 (ST. GEORGE ROAD)	1
45.00' RT. STA. 116+17.47 (ST. GEORGE ROAD)	1
45.00' LT. & RT. STA. 122+50 (ST. GEORGE ROAD)	2
33' LT. & RT. STA. 124+00 (ST. GEORGE ROAD)	2
TOTAL	57

PERMANENT SURVEY MARKERS, TYPE I

LOCATION	EACH
PC STA. 469+93.78	1
PI STA. 477+69.27	1
PT STA. 485+32.13	1
PC STA. 489+83.61	1
PT STA. 518+15.65	1
PC STA. 522+77.03	1
PI STA. 528+83.12	1
PT STA. 534+83.14	1
TOTAL	8

EROSION CONTROL SCHEDULE

LOCATION	EROSION CONTROL BLANKET SQ YD	TEMPORARY DITCH CHECK EACH	PERIMETER EROSION BARRIER FOOT	STONE RIPRAP CLASS A3 SQ YD
LT. & RT. STA. 479+70	---	2	---	---
LT. & RT. STA. 480+35	---	2	---	---
LT. & RT. STA. 492+50	---	2	---	---
LT. STA. 496+20	---	1	---	---
RT. STA. 499+00	---	1	---	---
LT. & RT. STA. 506+00	---	2	---	---
LT. STA. 510+30	---	1	---	---
LT. STA. 514+70	---	1	---	---
LT. & RT. STA. 518+20	---	2	---	---
LT. & RT. STA. 521+70	---	2	---	---
RT. STA. 522+70	---	1	---	---
LT. & RT. STA. 529+00	---	2	---	---
RT. STA. 100+80	---	1	---	---
RT. STA. 107+85	---	1	---	---
LT. & RT. STA. 115+50	---	2	---	---
LT. & RT. STA. 120+75	---	2	---	---
RT. STA. 299+20	---	1	---	---
AT PRCFES 12"	85 @ 10	---	---	---
AT PRCFES 18"	2 @ 11	---	---	---
AT PRCFES 24"	3 @ 13	---	---	---
AT PRCFES 30"	1 @ 14	---	---	---
AT PRCFES ERS 18"	2 @ 11	---	---	---
AT PRCFES ERS 21"	1 @ 13	---	---	---
AT END SECTION 15"	4 @ 12	---	---	---
AT END SECTION 18"	4 @ 12	---	---	---
AT END SECTION 21"	2 @ 13	---	---	---
AT END SECTION 27"	4 @ 16	---	---	---
RT. STA. 496+00	7	---	---	6
RT. STA. 510+50	6	---	---	5.5
LT. & RT. STA. 521+77	2 @ 9	---	---	2 @ 8
LT. STA. 110+40	8	---	---	6.5
RT. STA. 113+75	5	---	---	5
RT. STA. 477+00 TO STA. 482+00	---	---	500	---
LT. STA. 501+00 TO STA. 506+00	---	---	500	---
RT. STA. 507+00 TO STA. 513+00	---	---	600	---
RT. STA. 519+00 TO STA. 523+00	---	---	400	---
TOTAL	1190	26	2000	39

REMOVE EXISTING CULVERTS

LOCATION	TYPE	EACH
RT. STA. 96+50 (INDIAN OAKS ROAD)	12" CMP	1
XR STA. 101+42.5 (INDIAN OAKS ROAD)	24" RCP	1
LT. STA. 107+60.1 (INDIAN OAKS ROAD)	16" CMP	1
RT. STA. 107+73.5 (INDIAN OAKS ROAD)	12" PLASTIC	1
RT. STA. 112+26.6 (ST. GEORGE)	12" RCP	1
LT. STA. 116+08.9 (ST. GEORGE)	12" CMP	1
RT. STA. 121+06.2 (ST. GEORGE)	12" CMP	1
XR STA. 81+00 (ILL. RTE. 50)	3'x4' BOX	1
XR STA. 299+56.1 (WEST AVE.)	16" PVC	1
TOTAL		9

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

LOCATION	EACH
STA. 24+98 TO STA. 32+51	60
STA. 86+07 TO STA. 93+71	40
TOTAL	100

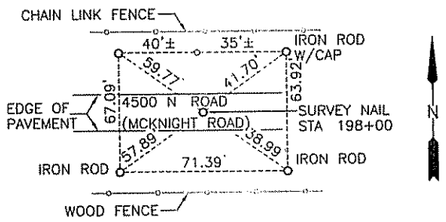
DRIVEWAY SCHEDULE

LOCATION	AGGREGATE SURFACE COURSE, TYPE B TON	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH SQ YD	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH SQ YD
LT. STA. 492+80 (REL. ILL. RTE. 50)	31	--	--
LT. STA. 515+00 (REL. ILL. RTE. 50)	32	--	--
LT. STA. 116+08.87 (ST. GEORGE RD.)	30	--	--
RT. STA. 121+06.16 (ST. GEORGE RD.)	25	--	--
RT. STA. 469+87.19 (REL. ILL. RTE. 50)	--	28.6	--
RT. STA. 110+90.8 (ST. GEORGE RD.)	--	38.5	--
RT. STA. 112+26.6 (ST. GEORGE RD.)	--	37.8	--
LT. STA. 469+38 (REL. ILL. RTE. 50)	--	--	53.7
LT. STA. 474+26.7 (REL. ILL. RTE. 50)	--	--	132.7
LT. STA. 483+51.5 (REL. ILL. RTE. 50)	--	--	703.1
LT. STA. 485+32.13 (REL. ILL. RTE. 50)	--	--	887.2
RT. STA. 96+50 (INDIAN OAKS ROAD)	--	--	127.3
RT. STA. 104+41 (INDIAN OAKS ROAD)	--	--	611.1
RT. STA. 106+53.90 (INDIAN OAKS ROAD)	--	--	126.4
TOTAL	118	104.9	2641.5

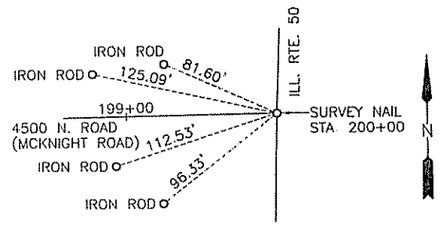
SCHEDULE OF QUANTITIES
ILL RTE 50
SECTION 140 R,TS
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	11
FED. AID PROJ. NO.		SEALED	FED. AID PROJECT	

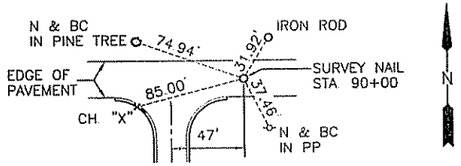
*140 R.TS



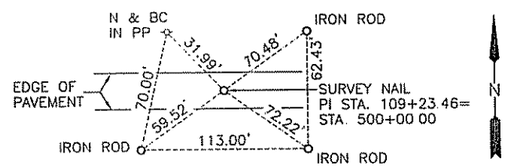
TIES TO POT STA. 198+00
(MCKNIGHT ROAD)



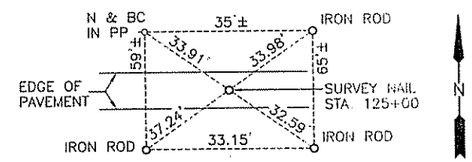
TIES TO POT STA. 200+00
(MCKNIGHT ROAD)



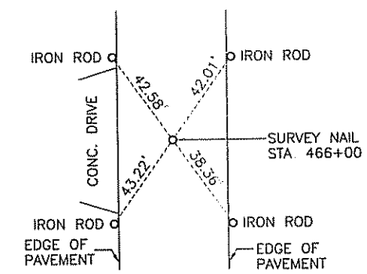
TIES TO POT STA. 90+00
(INDIAN OAKS ROAD)



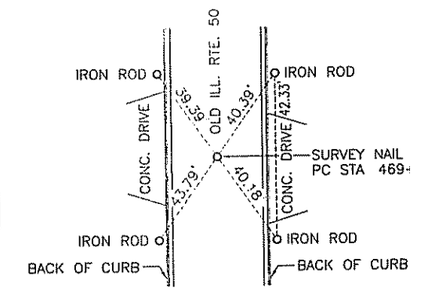
TIES TO PI STA. 109+23.46
(500+00 RELOCATED ILL. RTE. 50)



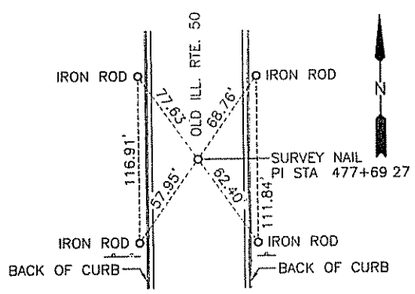
TIES TO POT STA. 125+00
(ST. GEORGE ROAD)



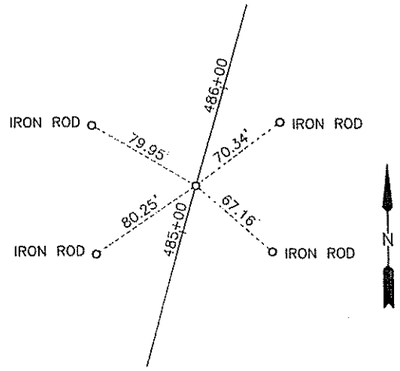
TIES TO POT STA. 466+00
(RELOCATED ILL. RTE. 50)



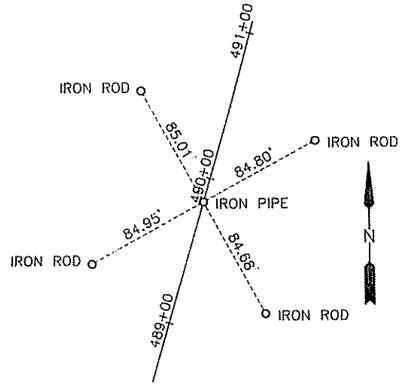
TIES TO PC STA. 469+93.78
(RELOCATED ILL. RTE. 50)



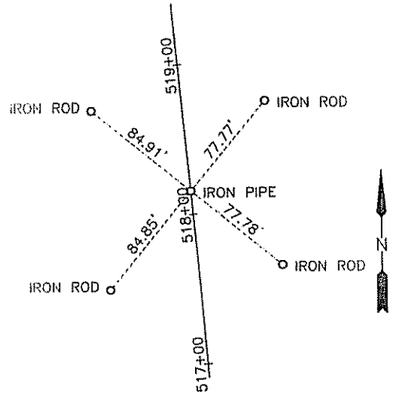
TIES TO PI STA. 477+69.27
(RELOCATED ILL. RTE. 50)



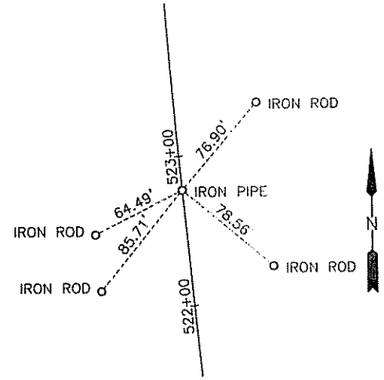
TIES TO PT STA. 485+32.13
(RELOCATED ILL. RTE. 50)



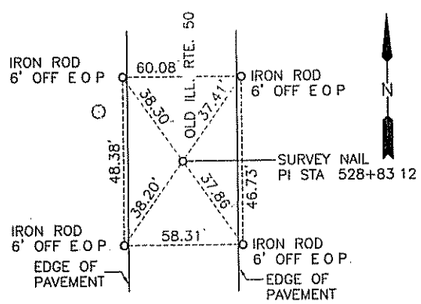
TIES TO PC STA. 489+83.61
(RELOCATED ILL. RTE. 50)



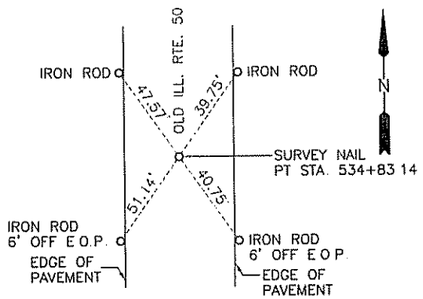
TIES TO PT STA. 518+15.65
(RELOCATED ILL. RTE. 50)



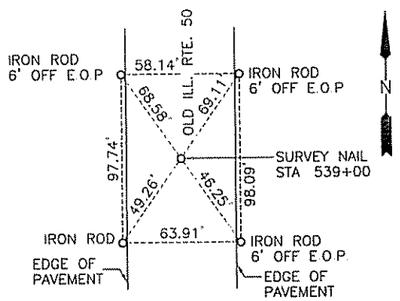
TIES TO PC STA. 522+77.03
(RELOCATED ILL. RTE. 50)



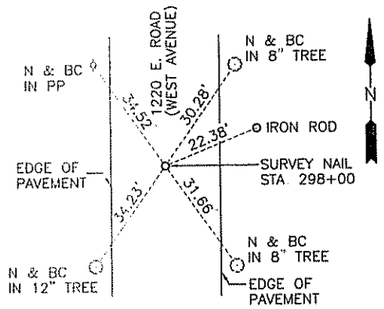
TIES TO PI STA. 528+83.12
(RELOCATED ILL. RTE. 50)



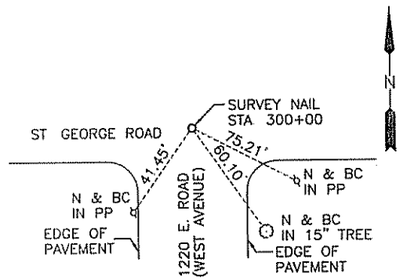
TIES TO PT STA. 534+83.14
(RELOCATED ILL. RTE. 50)



TIES TO POT STA. 539+00
(RELOCATED ILL. RTE. 50)



TIES TO POT STA. 298+00
(WEST AVENUE)



TIES TO STA. 300+00
(WEST AVENUE)

SWING TIES
ILL RTE 50
SECTION 140 R,TS
KANKAKEE COUNTY

STATION	INLET TO BE REMOVED	INLET TO BE ADJUSTED	INLET TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	MANHOLE TO BE REMOVED	MANHOLE TO BE ADJUSTED	MANHOLE TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	TO REMAIN	EXISTING RIM	PROPOSED RIM
470+05.4, 32.8' LT.	--	X	--	--	--	--	--	693.34	694.20
470+08.2, 36.2' LT.	--	--	--	--	X	--	--	693.45	694.70
470+05.3, 33.4' RT.	--	X	--	--	--	--	--	693.28	694.33
470+05.3, 42.5' RT.	--	--	--	--	--	--	X	--	--
471+23.6, 34.3' LT.	X	--	--	--	--	--	--	694.07	--
472+35.1, 27.5' RT.	X	--	--	--	--	--	--	--	--

STATION	INLET TO BE REMOVED	INLET TO BE ADJUSTED	INLET TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	MANHOLE TO BE REMOVED	MANHOLE TO BE ADJUSTED	MANHOLE TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	TO REMAIN	EXISTING RIM	PROPOSED RIM
472+93.5, 53.4' LT.	--	--	--	--	--	X	--	694.17	695.98
472+99.3, 31.2' RT.	--	--	--	--	X	--	--	694.90	695.14
474+57.5, 15.2' RT.	--	--	--	--	X	--	--	695.35	695.14
475+89.6, 2.7' LT.	X	--	--	--	--	--	--	--	--
476+13.9, 5.9' LT.	--	--	X	--	--	--	--	694.50	695.10
476+14.7, 1.3' RT.	--	--	--	--	X	--	--	695.66	694.95
476+34.7, 8.4' LT.	X	--	--	--	--	--	--	--	--
475+91.3, 69.3' LT.	X	--	--	--	--	--	--	--	--
476+04.1, 70.9' LT.	--	--	X	--	--	--	--	694.35	694.35
476+02.4, 81.5' LT.	--	--	--	--	--	--	X	692.56	--
476+20.2, 72.9' LT.	X	--	--	--	--	--	--	--	--
477+74.8, 21.4' LT.	--	--	--	--	X	--	--	695.02	694.92
479+37.8, 58.0' LT.	X	--	--	--	--	--	--	--	--
479+47.6, 60.0' LT.	X	--	--	--	--	--	--	--	--
479+73.5, 54.6' LT.	--	--	--	X	--	--	--	--	--
479+73.1, 61.1' LT.	--	--	--	X	--	--	--	--	--
479+25.1, 122.5' LT.	X	--	--	--	--	--	--	--	--
479+33.7, 124.4' LT.	X	--	--	--	--	--	--	--	--

F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED. AID

CENTERLINE CURVE DATA
Δ = 17°53'48"
R = 4925.00'
T = 775.49'
L = 1538.35'
P.C. STA. 469+93.78
P.I. STA. 477+69.27
P.T. STA. 485+32.13
REMOVE CROWN
SE ATTAINMENT
STA. 468+27.78 TO STA. 470
SE REMOVAL
STA. 484+49.13 TO STA. 486

NOTE:
OFFSETS SHOWN ARE TO EDGE OF PAVEMENT OR TO FLARED END OF END SECTIONS. WHERE STRUCTURE IS NOT IN CURB AND GUTTER OFFSET IS TO CENTER OF STRUCTURE.
RIM ELEVATIONS ARE AT FLOWLINE OF GUTTER OR TOP OF GRATE/LID.

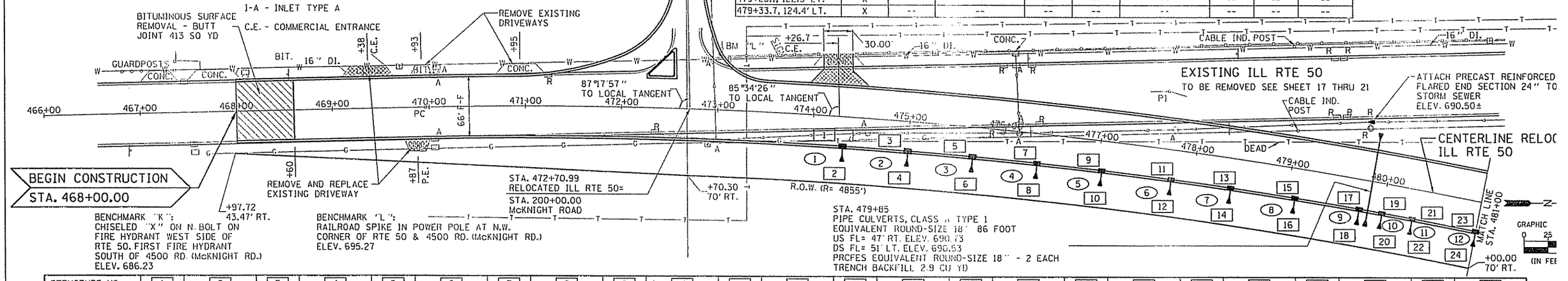
• FLAT SLAB TOP REQUIRED

PRCFES - PRECAST REINFORCED CONCRETE FLARED END SECTION

1-A - INLET TYPE A

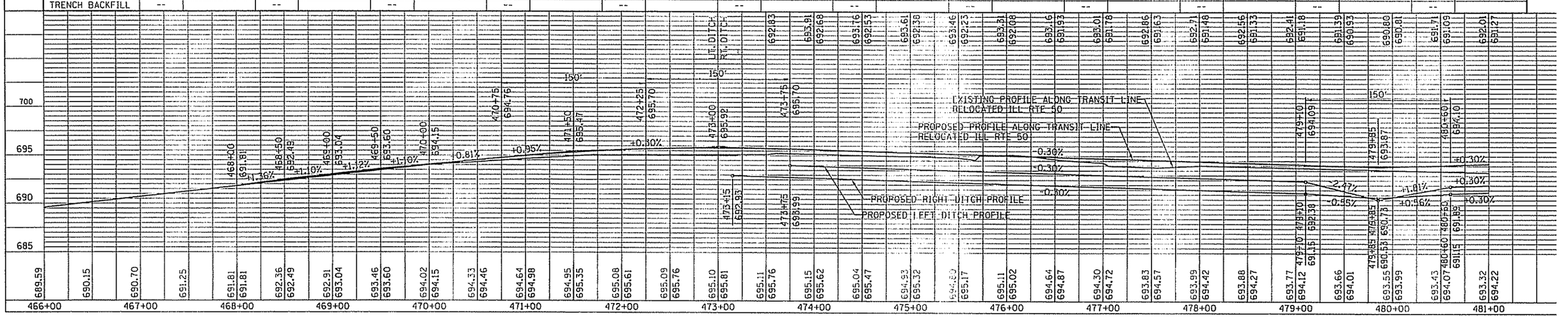
C.E. - COMMERCIAL ENTRANCE

PCC DRIVEWAY PAVEMENT
SEE SCHEDULE OF QUANTITIES



STRUCTURE NO.	1	2	3	4	5	6	7	8	9	10	11	12
STA.	474+32	474+32	475+00	475+00	475+68	475+68	476+36	476+36	477+04	477+04	477+77	477+77
OFFSET	31' RT.	46.6' RT.	31' RT.	46.6' RT.	31' RT.	46.6' RT.	31' RT.	46.6' RT.	31' RT.	46.6' RT.	31' RT.	46.6' RT.
STRUCTURE TYPE	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"
F&G TYPE	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--
RIM ELEVATION	694.76	--	694.56	--	694.36	--	694.15	--	693.95	--	693.73	--
EAST INVERT	692.80	692.58	692.60	692.38	692.40	692.17	692.19	691.97	691.99	691.76	691.77	691.54
PIPE NUMBER	1		2		3		4		5		6	
SIZE	12"		12"		12"		12"		12"		12"	
LENGTH	7		7		7		7		7		7	
CLASS	A		A		A		A		A		A	
TYPE	1		1		1		1		1		1	
% SLOPE	1.7		1.7		1.8		1.7		1.8		1.8	
TRENCH BACKFILL	--		--		--		--		--		--	

STRUCTURE NO.	13	14	15	16	17	18	19	20	21	22	23	24
STA.	478+40	478+40	479+08	479+08	479+76	479+76	480+00	480+00	480+32	480+32	481+00	481+00
OFFSET	31' RT.	46.6' RT.	31' RT.	46.6' RT.	31' RT.	46.9' RT.	31' RT.	46.9' RT.	31' RT.	46.6' RT.	31' RT.	46.6' RT.
STRUCTURE TYPE	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"
F&G TYPE	3V	--	3V	--	3	--	3	--	3V	--	3V	--
RIM ELEVATION	693.54	--	693.34	--	693.22	--	693.22	--	693.26	--	693.45	--
EAST INVERT	691.58	691.36	691.38	691.15	691.26	690.95	691.26	690.97	691.30	691.06	691.49	691.27
PIPE NUMBER	7		8		9		10		11		12	
SIZE	12"		12"		12"		12"		12"		12"	
LENGTH	7		7		7		7		7		7	
CLASS	A		A		A		A		A		A	
TYPE	1		1		1		1		1		1	
% SLOPE	1.7		1.8		2.4		2.2		1.8		1.7	
TRENCH BACKFILL	--		--		--		--		--		--	



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / CADD FILE NAME / NOTE BOOK NO. / DATE / BY

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / STRUCTURE NOTATIONS CHKD / NOTE BOOK NO. / DATE / BY

June 5, 2001
ed0300\corsuit\Final466-481.dgn

F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED. AID

CENTERLINE CURVE DATA
Δ = 17°53'48"
R = 4925.00'
T = 775.49'
L = 1538.35'
P.C. STA. 469+93.78
P.I. STA. 477+69.27
P.T. STA. 485+32.13
REMOVE CROWN
SE ATTAINMENT
STA. 468+27.78 TO STA. 470+76.78
SE REMOVAL
STA. 484+49.13 TO STA. 486+98.13

BENCHMARK "M":
BRASS PLUG #2 STAMP IN CONCRETE
MONUMENT WEST SIDE OF RTE 50
AT STA. 44+50± (EXIST. ILL RTE 50)
ELEV. 695.97

•• EQUIVALENT ROUND-SIZE 21"

NOTE:
OFFSETS SHOWN ARE TO EDGE OF PAVEMENT OR TO FLARED END OF END SECTIONS. WHERE STRUCTURE IS NOT IN CURB AND GUTTER OFFSET IS TO CENTER OF STRUCTURE.
RIM ELEVATIONS ARE AT FLOWLINE OF GUTTER OR TOP OF GRATE/LID.

• FLAT SLAB TOP REQUIRED

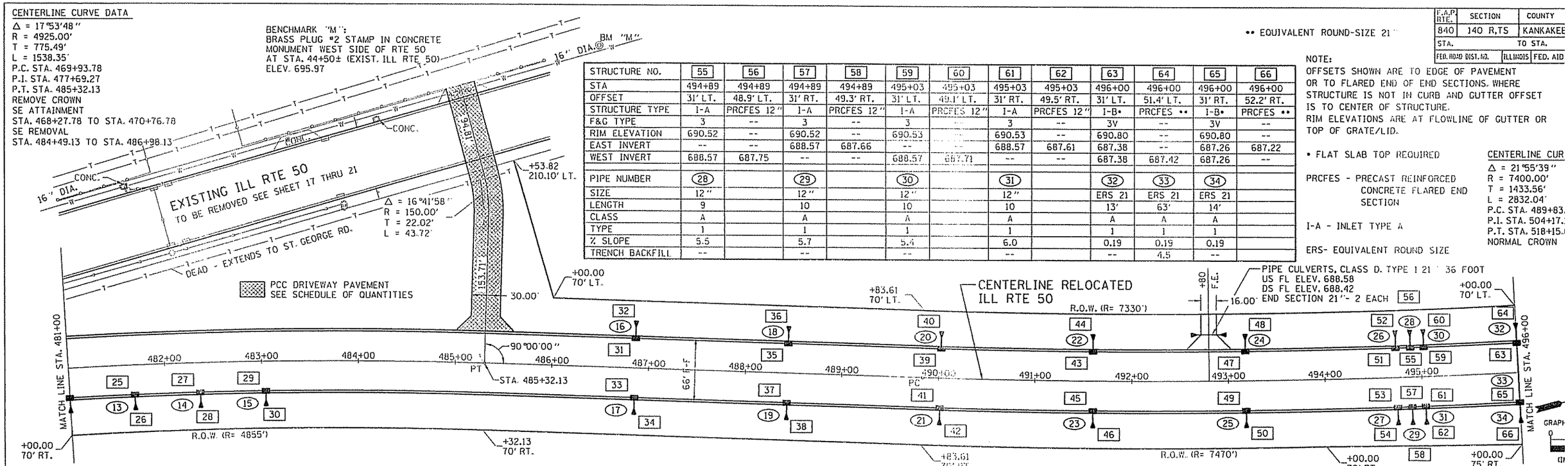
PRCFES - PRECAST REINFORCED CONCRETE FLARED END SECTION

I-A - INLET TYPE A

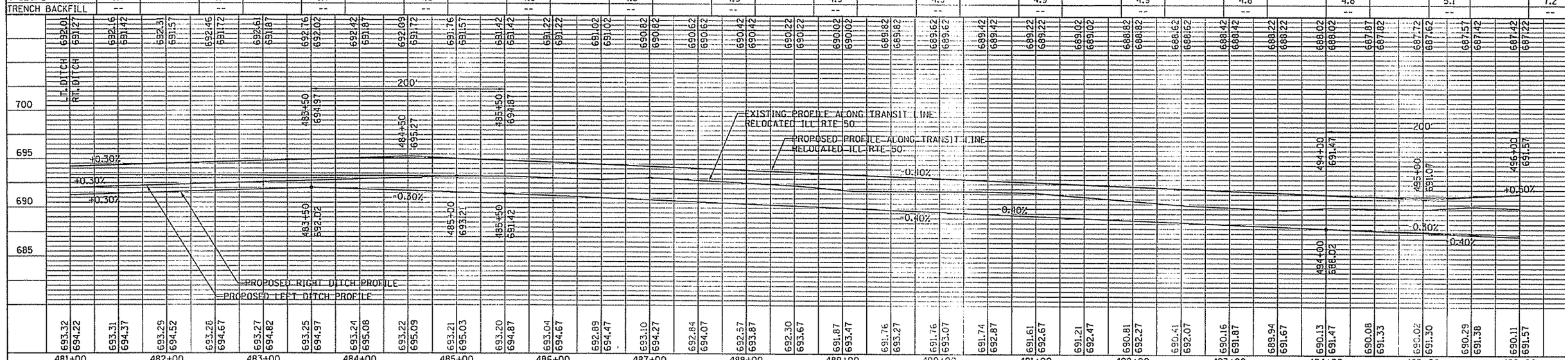
ERS- EQUIVALENT ROUND SIZE

CENTERLINE CUR
Δ = 21°55'39"
R = 7400.00'
T = 1433.56'
L = 2832.04'
P.C. STA. 489+83.
P.I. STA. 504+17.
P.T. STA. 518+15.
NORMAL CROWN

STRUCTURE NO.	55	56	57	58	59	60	61	62	63	64	65	66
STA	494+89	494+89	494+89	494+89	495+03	495+03	495+03	495+03	496+00	496+00	496+00	496+00
OFFSET	31' LT.	48.9' LT.	31' RT.	49.3' RT.	31' LT.	49.1' LT.	31' RT.	49.5' RT.	31' LT.	51.4' LT.	31' RT.	52.2' RT.
STRUCTURE TYPE	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-B•	PRCFES ••	I-B•	PRCFES ••
F&G TYPE	3	--	3	--	3	--	3	--	3V	--	3V	--
RIM ELEVATION	690.52	--	690.52	--	690.53	--	690.53	--	690.80	--	690.80	--
EAST INVERT	--	--	688.57	687.66	--	--	688.57	687.61	687.38	--	687.26	687.22
WEST INVERT	688.57	687.75	--	--	688.57	687.71	--	--	687.38	687.42	687.26	--
PIPE NUMBER	28		29		30		31		32	33	34	
SIZE	12"		12"		12"		12"		ERS 21	ERS 21	ERS 21	
LENGTH	9		10		10		10		13'	63'	14'	
CLASS	A		A		A		A		A	A	A	
TYPE	1		1		1		1		1	1	1	
% SLOPE	5.5		5.7		5.4		6.0		0.19	0.19	0.19	
TRENCH BACKFILL	--		--		--		--		--	4.5	--	



STRUCTURE NO.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
STA	481+68	481+68	482+36	482+36	483+04	483+04	486+86	486+86	486+86	486+86	488+44	488+44	488+44	488+44	490+02	490+02	490+02	490+02	491+60	491+60	491+60	491+60	493+18	493+18	493+18	493+18	494+74	494+74	494+74
OFFSET	31' RT.	46.6' RT.	31' RT.	46.6' RT.	31' RT.	46.6' RT.	31' LT.	48.6' LT.	31' RT.	48.6' RT.	31' LT.	48.6' LT.	31' RT.	48.6' RT.	31' LT.	48.6' LT.	31' RT.	48.6' RT.	31' LT.	48.6' LT.	31' RT.	48.6' RT.	31' LT.	48.6' LT.	31' RT.	48.6' RT.	31' LT.	48.6' LT.	31' RT.
STRUCTURE TYPE	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A
F&G TYPE	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3	--	3
RIM ELEVATION	693.65	--	693.86	--	694.06	--	693.56	--	693.56	--	692.93	--	692.93	--	692.30	--	692.30	--	691.66	--	691.66	--	691.03	--	691.03	--	690.53	--	690.53
EAST INVERT	691.69	691.47	691.90	691.68	693.10	691.88	--	--	691.60	690.88	--	690.24	690.97	690.24	--	--	690.34	689.61	--	--	689.71	688.98	--	--	689.07	688.35	--	--	688.57
WEST INVERT	--	--	--	--	--	--	691.60	690.88	--	--	690.97	--	--	--	690.34	689.61	--	--	689.71	688.98	--	--	689.07	688.35	--	--	688.57	687.80	--
PIPE NUMBER	13		14		15		16		17		18		19		20		21		22		23		24		25		26		27
SIZE	12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"
LENGTH	7		7		7		9		9		9		9		9		9		9		9		9		9		9		10
CLASS	A		A		A		A		A		A		A		A		A		A		A		A		A		A		A
TYPE	1		1		1		1		1		1		1		1		1		1		1		1		1		1		1
% SLOPE	1.7		1.7		1.7		4.8		4.8		4.8		4.9		4.9		4.9		4.9		4.9		4.8		4.8		5.1		7.2
TRENCH BACKFILL	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--

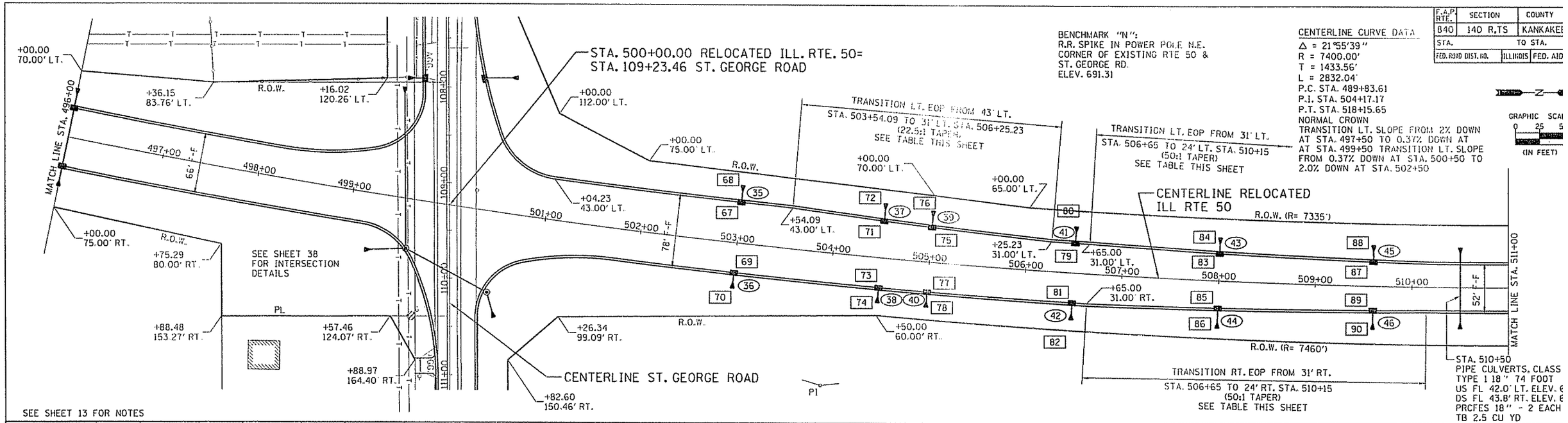


PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / R.O.W. CHECKED / STRUCTURE DATA CHKD / NOTE BOOK NO. / BY / DATE

June 6, 2001
ed0300\corsuit\final\481-496.dgn

F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED. AID



BENCHMARK "N":
R.R. SPIKE IN POWER POLE N.E.
CORNER OF EXISTING RTE 50 &
ST. GEORGE RD.
ELEV. 691.31

CENTERLINE CURVE DATA
Δ = 21°55'39"
R = 7400.00'
T = 1433.56'
L = 2832.04'
P.C. STA. 489+83.61
P.I. STA. 504+17.17
P.T. STA. 518+15.65
NORMAL CROWN
TRANSITION LT. SLOPE FROM 2% DOWN AT STA. 497+50 TO 0.37% DOWN AT STA. 499+50 TRANSITION LT. SLOPE FROM 0.37% DOWN AT STA. 500+50 TO 2.0% DOWN AT STA. 502+50

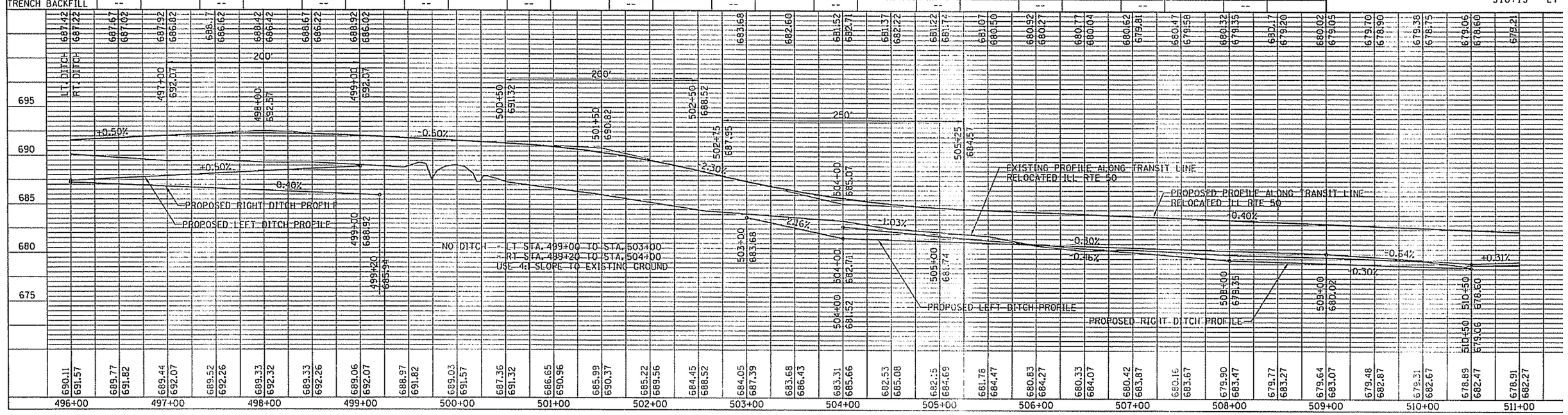
GRAPHIC SCALE
0 25 5
(IN FEET)

SEE SHEET 13 FOR NOTES

STRUCTURE NO.	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
STA	503+00	503+00	503+00	503+00	504+50	504+50	504+50	504+50	505+00	505+00	505+00	505+00	506+50	506+50	506+50	506+50	508+00	508+00	508+00	508+00	509+60	509+60	509+60	509+60
OFFSET	43' LT.	60.7' LT.	31' RT.	47.1' RT.	38.8' LT.	57.0' LT.	31' RT.	46.2' RT.	36.6' LT.	53.8' LT.	31' RT.	46.6' RT.	31' LT.	48.3' LT.	31' RT.	50.9' RT.	28.3' LT.	44.9' LT.	28.3' RT.	48.8' RT.	25.1' LT.	42.1' LT.	25.1' RT.	45.2' RT.
STRUCTURE TYPE	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"
F&G TYPE	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--
RIM ELEVATION	686.39	--	686.63	--	684.16	--	684.32	--	683.82	--	683.93	--	683.30	--	683.30	--	682.76	--	682.76	--	682.18	--	682.18	--
EAST INVERT	--	--	684.67	684.31	--	--	682.36	682.22	--	--	681.97	681.74	--	--	681.35	680.04	--	--	680.80	679.35	--	--	680.22	678.87
WEST INVERT	684.43	683.68	--	--	682.20	681.37	--	--	681.86	681.22	--	--	681.35	680.77	--	--	680.80	680.32	--	--	680.22	679.64	--	--
PIPE NUMBER	35		36		37		38		39		40		41		42		43		44		45		46	
SIZE	12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"	
LENGTH	9		8		10		7		9		7		9		12		8		12		9		12	
CLASS	A		A		A		A		A		A		A		A		A		A		A		A	
TYPE	1		1		1		1		1		1		1		1		1		1		1		1	
% SLOPE	5.0		2.6		5.2		1.1		4.3		1.8		3.9		7.3		3.4		8.0		3.9		7.5	
TRENCH BACKFILL	--		--		--		--		--		--		--		--		--		--		--		--	

EDGE OF PAVEMENT STA AND OFFSETS

STA.	OFFSET	STA.	OF
503+54.09	LT 43'	506+65	LT
503+76.68	LT 42'	506+90	LT
503+99.28	LT 41'	507+15	LT
504+21.87	LT 40'	507+40	LT
504+44.47	LT 39'	507+65	LT
504+67.06	LT 38'	507+90	LT
504+89.66	LT 37'	508+15	LT
505+12.25	LT 36'	508+40	LT
505+34.85	LT 35'	508+65	LT
505+57.44	LT 34'	508+90	LT
505+80.04	LT 33'	509+15	LT
506+02.63	LT 32'	509+40	LT
506+25.23	LT 31'	509+65	LT
		509+90	LT
		510+15	LT



PLAN
SURVEYED
PLOTTED
GRADES CALCULED
ALIGNMENT CHECKED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CALCULED
ALIGNMENT CHECKED
NOTE BOOK
NO.
STRUCTURE NOTATIONS CHKD
BY
DATE

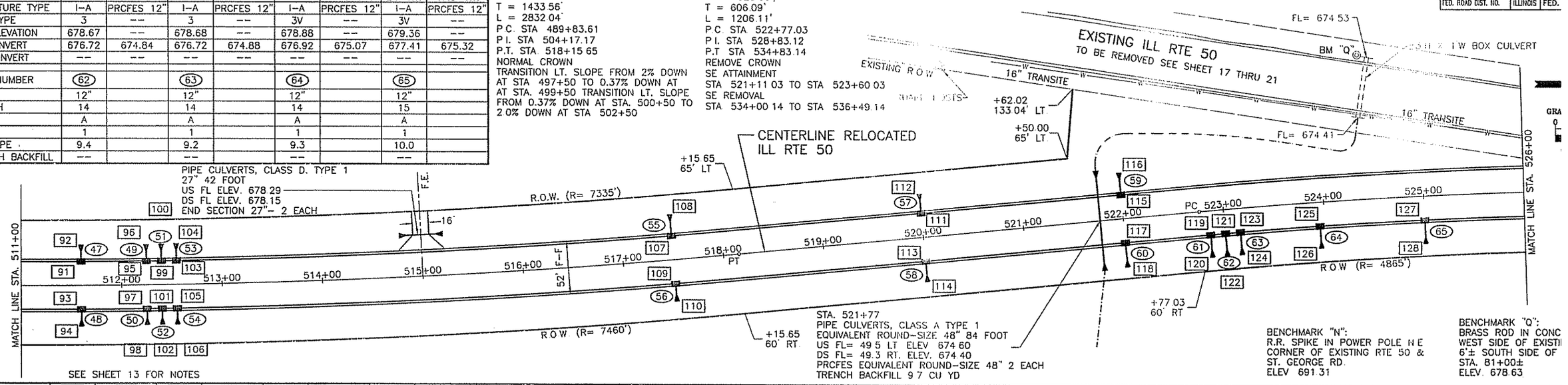
ed03001\cansu1\Final\496-511.dgn

F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED.

STRUCTURE NO.	121	122	123	124	125	126	127	128
STA	523+00	523+00	523+15	523+15	523+95	523+95	525+00	525+00
OFFSET	24' RT.	46.1' RT.	24' RT.	46.1' RT.	24' RT.	46.1' RT.	24' RT.	47.0' RT.
STRUCTURE TYPE	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"
F&G TYPE	3	--	3	--	3V	--	3V	--
RIM ELEVATION	678.67	--	678.68	--	678.88	--	679.36	--
EAST INVERT	676.72	674.84	676.72	674.88	676.92	675.07	677.41	675.32
WEST INVERT	--	--	--	--	--	--	--	--
PIPE NUMBER	62		63		64		65	
SIZE	12"		12"		12"		12"	
LENGTH	14		14		14		15	
CLASS	A		A		A		A	
TYPE	1		1		1		1	
% SLOPE	9.4		9.2		9.3		10.0	
TRENCH BACKFILL	--		--		--		--	

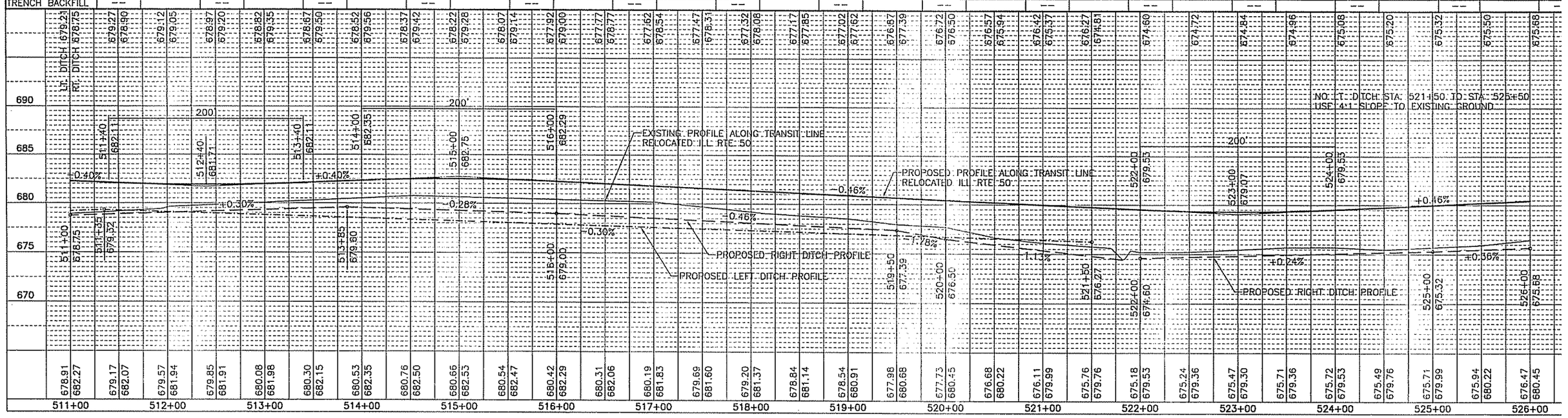
CENTERLINE CURVE DATA
Δ = 21°55'39"
R = 7400.00'
T = 1433.56'
L = 2832.04'
P.C. STA. 489+83.61
P.I. STA. 504+17.17
P.T. STA. 518+15.65
NORMAL CROWN
TRANSITION LT. SLOPE FROM 2% DOWN AT STA. 497+50 TO 0.37% DOWN AT AT STA. 499+50 TRANSITION LT. SLOPE FROM 0.37% DOWN AT STA. 500+50 TO 2.0% DOWN AT STA. 502+50

CENTERLINE CURVE DATA
Δ = 14°01'53"
R = 4925.00'
T = 606.09'
L = 1206.11'
P.C. STA. 522+77.03
P.I. STA. 528+83.12
P.T. STA. 534+83.14
REMOVE CROWN
SE ATTAINMENT
STA. 521+11.03 TO STA. 523+60.03
SE REMOVAL
STA. 534+00.14 TO STA. 536+49.14



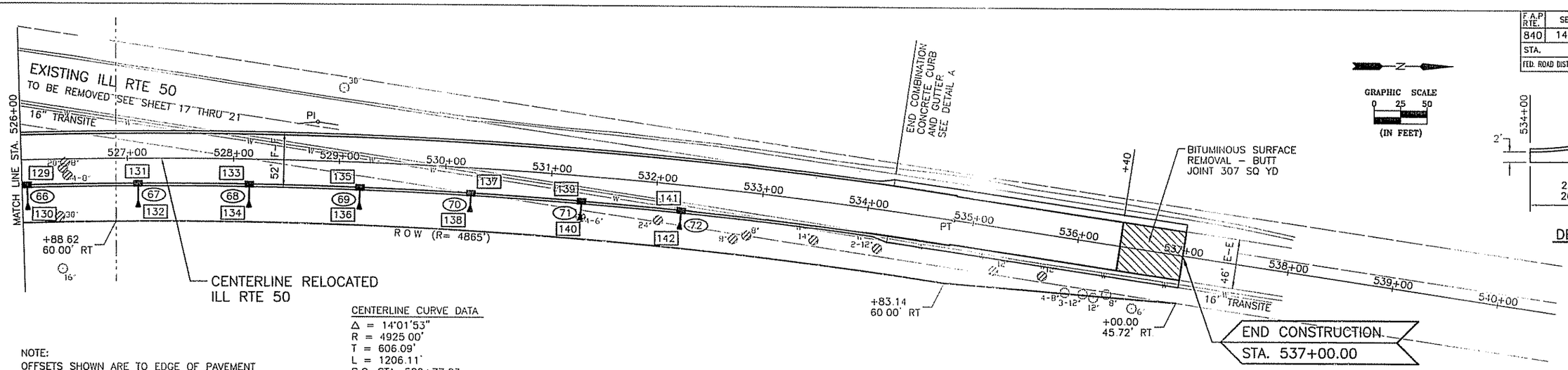
SEE SHEET 13 FOR NOTES

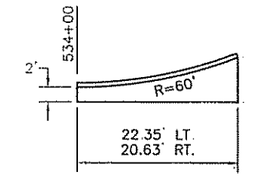
STRUCTURE NO.	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	11
STA	511+60	511+60	511+60	511+60	512+25	512+25	512+25	512+25	512+40	512+40	512+40	512+40	512+55	512+55	512+55	512+55	517+50	517+50	517+50	517+50	520+00	520+00	520+00	520+00	522+00	522+00	522+00	522+00	52
OFFSET	24' LT.	39.5' LT.	24' RT.	40.8' RT.	24' LT.	39.8' LT.	24' RT.	39.5' RT.	24' LT.	40.0' LT.	24' RT.	39.3' RT.	24' LT.	40.2' LT.	24' RT.	39.0' RT.	24' LT.	44.8' LT.	24' RT.	41.5' RT.	24' LT.	43.3' LT.	24' RT.	44.1' RT.	24' LT.	44.2' LT.	24' RT.	48.0' RT.	24'
STRUCTURE TYPE	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-
F&G TYPE	3V	--	3V	--	3	--	3	--	3	--	3	--	3	--	3	--	3V	--	3V	--	3V	--	3V	--	3V	--	3V	--	3
RIM ELEVATION	681.41	--	681.41	--	681.29	--	681.29	--	681.28	--	681.28	--	681.29	--	681.29	--	680.97	--	680.97	--	679.82	--	679.82	--	678.90	--	678.90	--	678
EAST INVERT	--	--	679.45	678.93	--	--	679.33	679.12	--	--	679.33	679.17	--	--	679.33	679.24	--	--	679.02	678.31	--	--	677.87	676.50	--	--	676.95	674.60	676
WEST INVERT	679.45	679.24	--	--	679.33	679.04	--	--	679.33	679.00	--	--	679.33	678.96	--	--	679.02	677.47	--	--	677.87	676.72	--	--	676.95	675.56	--	--	-
PIPE NUMBER	47		48		49		50		51		52		53		54		55		56		57		58		59		60		6
SIZE	12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12"		12
LENGTH	7		8		7		7		8		7		8		7		12		9		11		12		12		16		1
CLASS	A		A		A		A		A		A		A		A		A		A		A		A		A		A		A
TYPE	1		1		1		1		1		1		1		1		1		1		1		1		1		1		1
% SLOPE	1.6		3.7		2.2		1.6		2.4		1.2		2.6		0.7		8.6		4.7		6.8		7.6		7.8		10.7		9.
TRENCH BACKFILL	--		--		--		--		--		--		--		--		--		--		--		--		--		--		-



RELOCATED

F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED.





DETAIL A

NOTE:
OFFSETS SHOWN ARE TO EDGE OF PAVEMENT OR TO FLARED END OF END SECTIONS WHERE STRUCTURE IS NOT IN CURB AND GUTTER OFFSET IS TO CENTER OF STRUCTURE
RIM ELEVATIONS ARE AT FLOWLINE OF GUTTER OR TOP OF GRATE/LID

* FLAT SLAB TOP REQUIRED

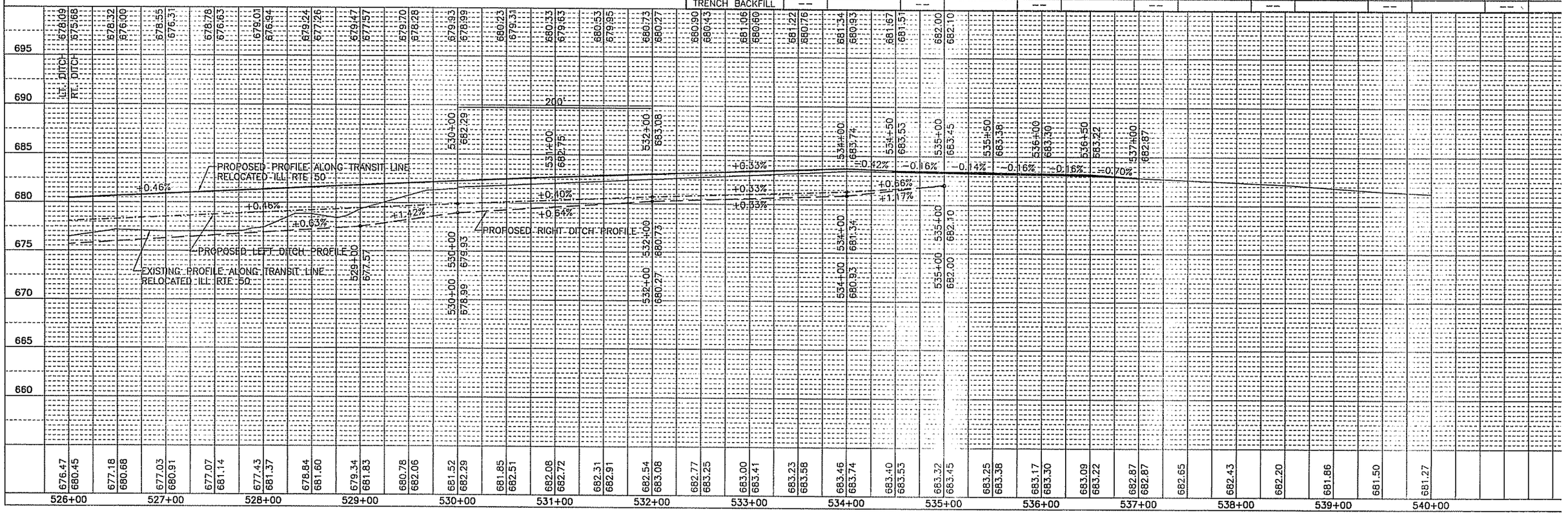
PRCFES – PRECAST REINFORCED CONCRETE FLARED END SECTION

I–A – INLET TYPE A

CENTERLINE CURVE DATA
Δ = 14°01'53"
R = 4925.00'
T = 606.09'
L = 1206.11'
P.C. STA. 522+77.03
P.I. STA. 528+83.12
P.T. STA. 534+83.14
REMOVE CROWN
SE ATTAINMENT
STA. 521+11.03 TO STA. 523+60.03
SE REMOVAL
STA. 534+00.14 TO STA. 536+49.14

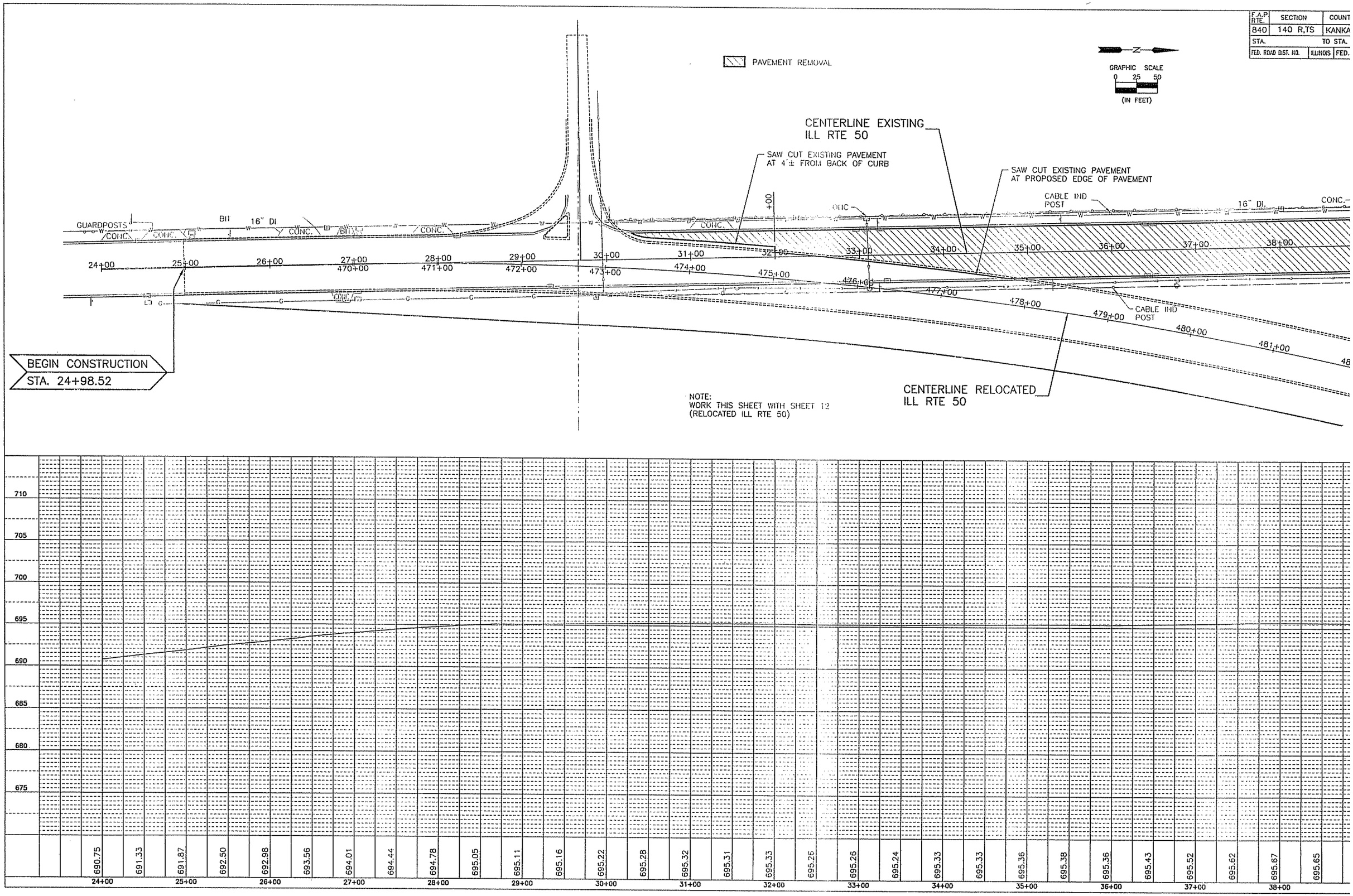
BENCHMARK "Q":
BRASS ROD IN CONC. MONUMENT
WEST SIDE OF EXISTING RTE 50
6'± SOUTH SIDE OF BOX CULVERT
STA. 81+00±
ELEV. 678.63

STRUCTURE NO.	129	130	131	132	133	134	135	136	137	138	139	140	141	1
STA.	526+05	526+05	527+10	527+10	528+15	528+15	529+20	529+20	530+25	530+25	531+30	531+30	532+25	532
OFFSET	24' RT.	47.4' RT.	24' RT.	46.7' RT.	24' RT.	45.9' RT.	24' RT.	44.6' RT.	24' RT.	41.4' RT.	24' RT.	40.4' RT.	24' RT.	39.6
STRUCTURE TYPE	I–A	PRCFES 12"	I–A	PRCFES 12"	I–A	PRCFES 12"	I–A	PRCFES 12"	I–A	PRCFES 12"	I–A	PRCFES 12"	I–A	PRCF
F&G TYPE	3V	––	3V	––	3V	––	3V	––	3V	––	3V	––	3V	–
RIM ELEVATION	679.85	––	680.33	––	680.81	––	681.30	––	681.78	––	682.21	––	682.54	–
EAST INVERT	677.89	675.71	678.37	676.37	678.86	677.04	679.34	677.85	679.82	679.15	680.25	679.82	680.58	68
PIPE NUMBER	66		67		68		69		70		71		72	
SIZE	12"		12"		12"		12"		12"		12"		12"	
LENGTH	15		14		13		12		9		8		7	
CLASS	A		A		A		A		A		A		A	
TYPE	1		1		1		1		1		1		1	
% SLOPE	10.4		10.0		9.6		8.3		4.5		3.1		1.8	
TRENCH BACKFILL	––		––		––		––		––		––		––	



RELOCATED

F.A.P RTE.	SECTION	COUNT
840	140 R,TS	KANKA
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED.



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
ALIGNMENT PLOTTED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
GRADES PLOTTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

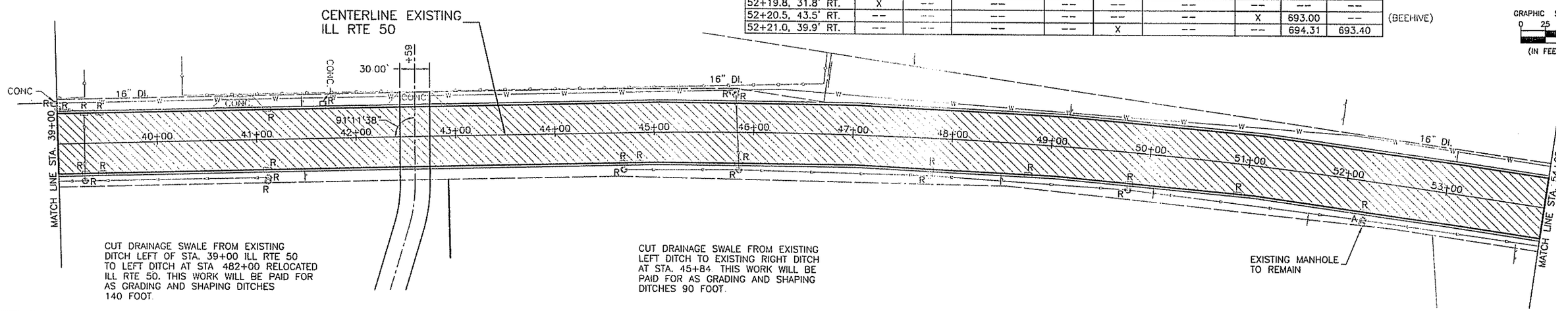
STATION	INLET TO BE REMOVED	INLET TO BE ADJUSTED	INLET TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	MANHOLE TO BE REMOVED	MANHOLE TO BE ADJUSTED	MANHOLE TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	TO REMAIN	EXISTING RIM	PROPOSED RIM
38+97.1, 41.3' LT.	--	--	--	X	--	--	--	--	--
39+00.9, 36.1' LT.	--	--	--	X	--	--	--	--	--
39+26.4, 38.3' RT.	--	--	--	X	--	--	--	--	--
39+27.0, 31.1' LT.	X	--	--	--	--	--	--	--	--
39+27.5, 30.7' RT.	X	--	--	--	--	--	--	--	--
39+42.5, 31.1' LT.	X	--	--	--	--	--	--	--	--
39+43.9, 30.7' RT.	X	--	--	--	--	--	--	--	--
41+09.8, 30.7' RT.	X	--	--	--	--	--	--	--	--
41+10.2, 42.4' RT.	--	--	--	X	--	--	--	--	--
41+10.8, 31.0' LT.	X	--	--	--	--	--	--	--	--
41+10.8, 38.9' RT.	--	--	--	X	--	--	--	--	--
41+67.6, 36.0' LT.	--	--	--	X	--	--	--	--	--

STATION	INLET TO BE REMOVED	INLET TO BE ADJUSTED	INLET TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	MANHOLE TO BE REMOVED	MANHOLE TO BE ADJUSTED	MANHOLE TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	TO REMAIN	EXISTING RIM	PROPOSED RIM	
44+68.3, 30.8' RT.	X	--	--	--	--	--	--	--	--	
44+68.8, 37.5' RT.	--	--	--	X	--	--	--	--	--	
44+84.3, 30.7' RT.	X	--	--	--	--	--	--	--	--	
45+78.6, 41.8' LT.	--	--	--	X	--	--	--	--	--	
45+82.2, 38.6' LT.	--	--	--	X	--	--	--	--	--	
45+85.1, 31.7' RT.	X	--	--	--	--	--	--	--	--	
45+85.4, 38.3' RT.	--	--	--	X	--	--	--	--	--	
47+78.7, 38.2' RT.	--	--	--	X	--	--	--	--	--	
47+78.8, 31.7' RT.	X	--	--	--	--	--	--	--	--	
48+78.5, 31.2' RT.	X	--	--	--	--	--	--	--	--	
49+80.7, 38.3' RT.	--	--	--	X	--	--	--	--	--	
49+81.0, 31.7' RT.	X	--	--	--	--	--	--	--	--	
50+91.5, 30.9' RT.	X	--	--	--	--	--	--	--	--	
52+19.8, 31.8' RT.	X	--	--	--	--	--	--	--	--	
52+20.5, 43.5' RT.	--	--	--	--	--	--	X	693.00	--	(BEEHIVE)
52+21.0, 39.9' RT.	--	--	--	--	X	--	--	694.31	693.40	

F.A.P. RTE.	SECTION	COUNT
840	140 R,TS	KANKA
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED.

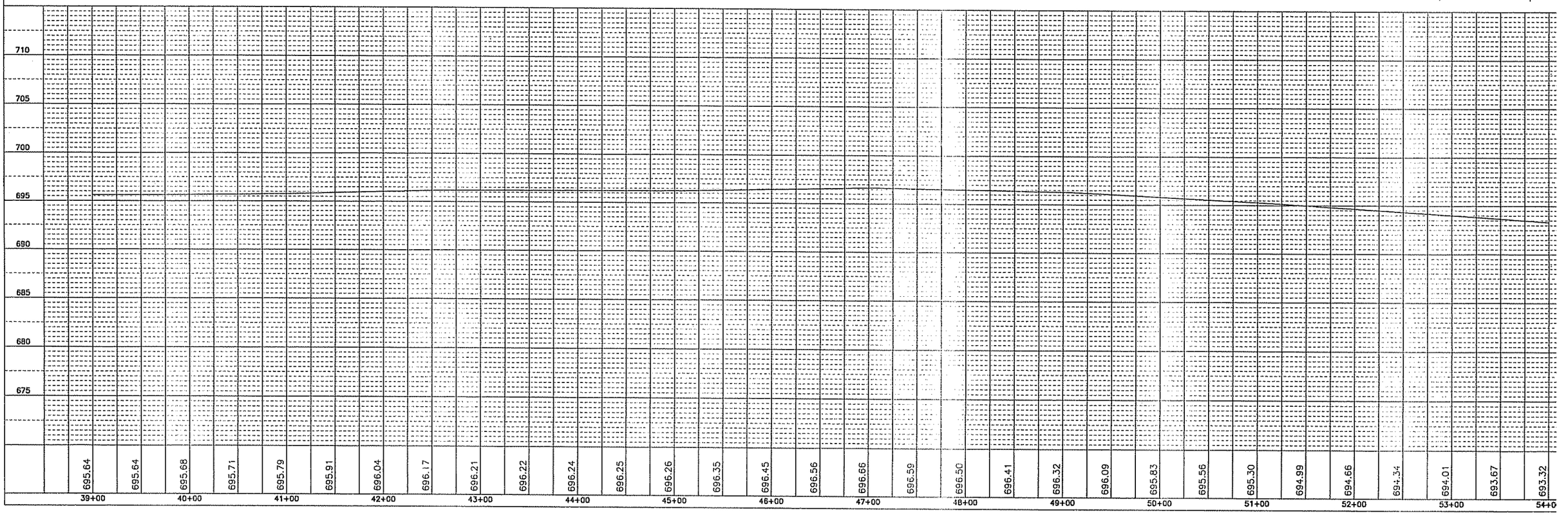
PAVEMENT REM

GRAPHIC S
0 25
(IN FEE



CUT DRAINAGE SWALE FROM EXISTING DITCH LEFT OF STA. 39+00 ILL RTE 50 TO LEFT DITCH AT STA. 482+00 RELOCATED ILL RTE 50. THIS WORK WILL BE PAID FOR AS GRADING AND SHAPING DITCHES 140 FOOT.

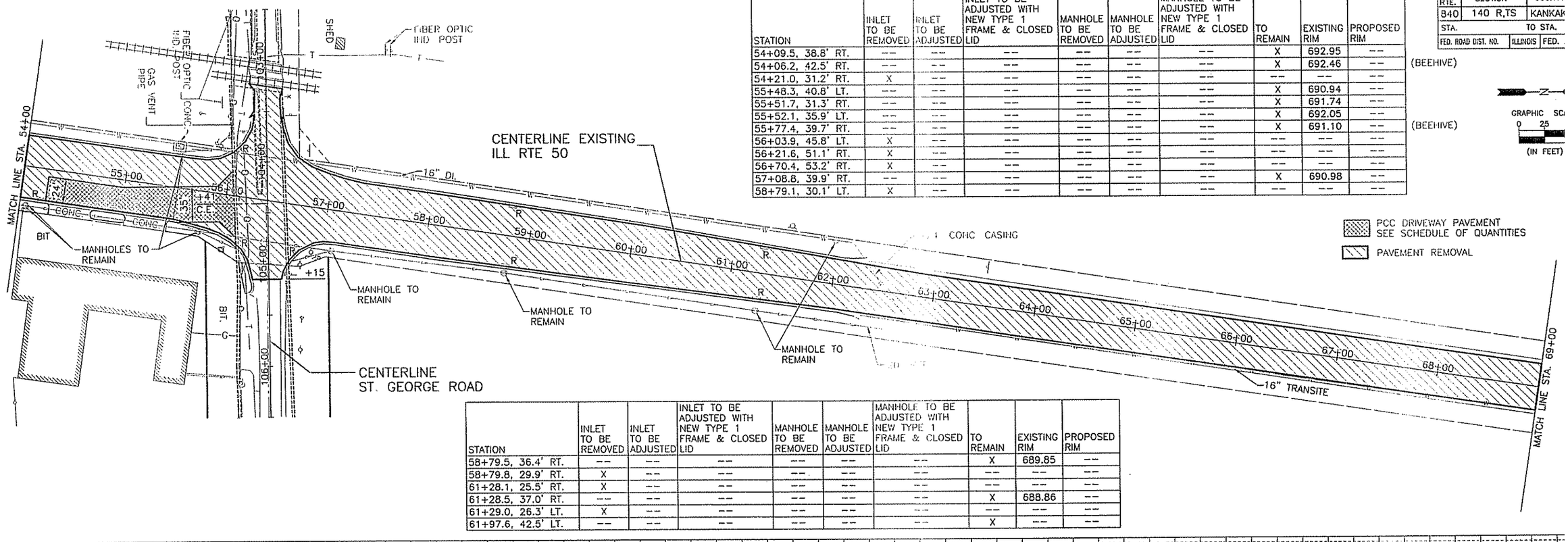
CUT DRAINAGE SWALE FROM EXISTING LEFT DITCH TO EXISTING RIGHT DITCH AT STA. 45+84. THIS WORK WILL BE PAID FOR AS GRADING AND SHAPING DITCHES 90 FOOT.



PLAN
SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
NO. ALIGNMENT CHECKED
STRUCTURE NO(S)/ALTS CHKD
CADD FILE NAME
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
NO. ALIGNMENT CHECKED
STRUCTURE NO(S)/ALTS CHKD
BY
DATE

F.A.P RTE.	SECTION	COUNTY
840	140 R,TS	KANKAK
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED.

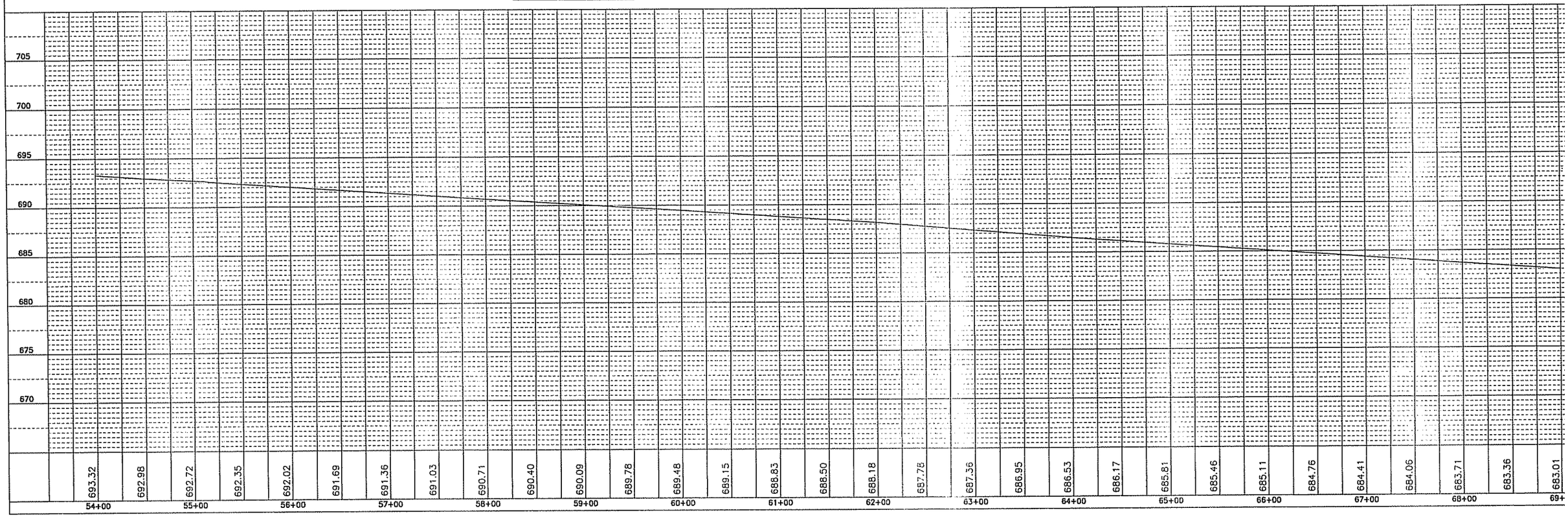


STATION	INLET TO BE REMOVED	INLET TO BE ADJUSTED	INLET TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	MANHOLE TO BE REMOVED	MANHOLE TO BE ADJUSTED	MANHOLE TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	TO REMAIN	EXISTING RIM	PROPOSED RIM
54+09.5, 38.8' RT.	--	--	--	--	--	--	X	692.95	--
54+06.2, 42.5' RT.	--	--	--	--	--	--	X	692.46	--
54+21.0, 31.2' RT.	X	--	--	--	--	--	--	--	--
55+48.3, 40.8' LT.	--	--	--	--	--	--	X	690.94	--
55+51.7, 31.3' RT.	--	--	--	--	--	--	X	691.74	--
55+52.1, 35.9' LT.	--	--	--	--	--	--	X	692.05	--
55+77.4, 39.7' RT.	--	--	--	--	--	--	X	691.10	--
56+03.9, 45.8' LT.	X	--	--	--	--	--	--	--	--
56+21.6, 51.1' RT.	X	--	--	--	--	--	--	--	--
56+70.4, 53.2' RT.	X	--	--	--	--	--	--	--	--
57+08.8, 39.9' RT.	--	--	--	--	--	--	X	690.98	--
58+79.1, 30.1' LT.	X	--	--	--	--	--	--	--	--

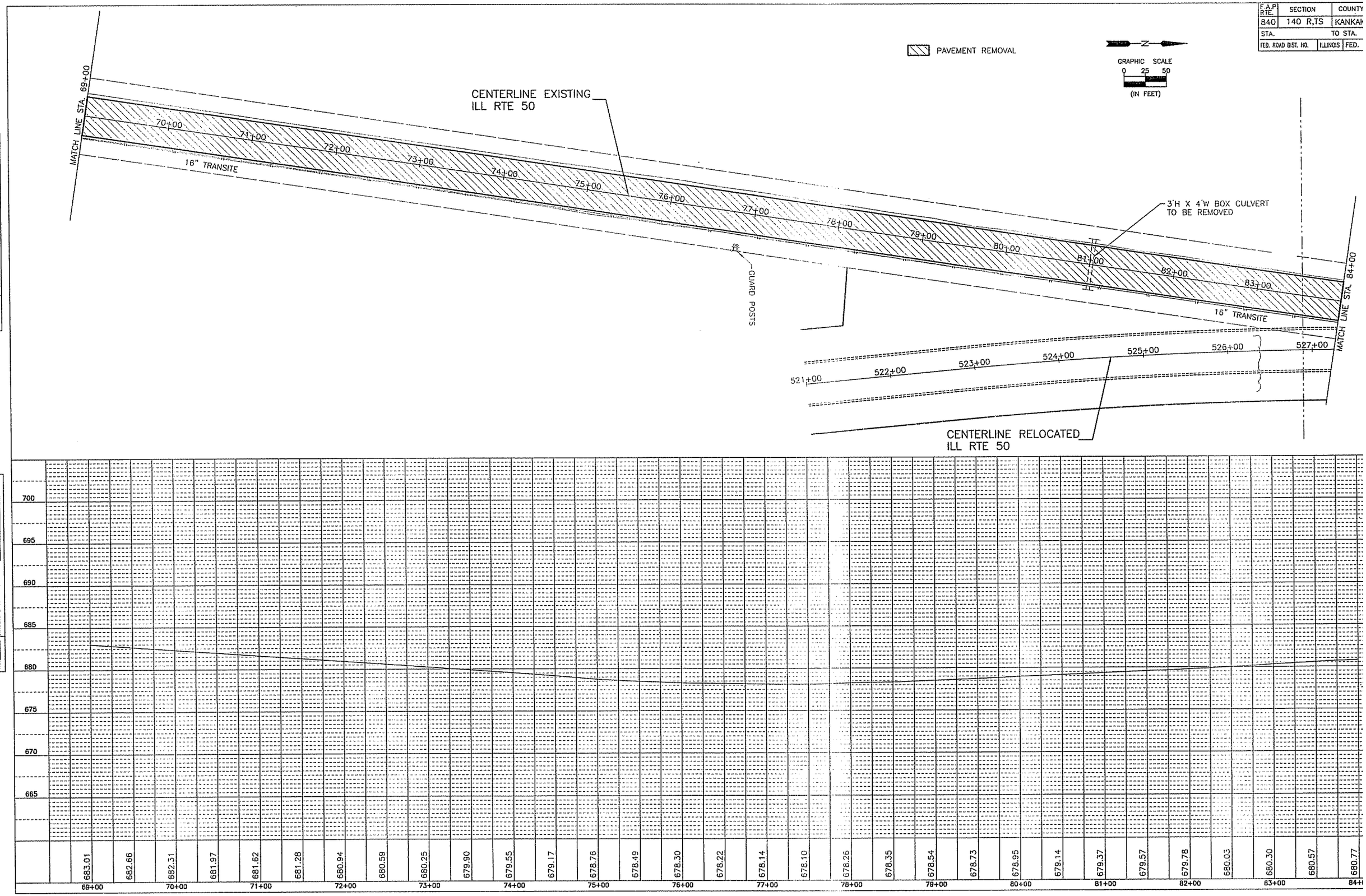
STATION	INLET TO BE REMOVED	INLET TO BE ADJUSTED	INLET TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	MANHOLE TO BE REMOVED	MANHOLE TO BE ADJUSTED	MANHOLE TO BE ADJUSTED WITH NEW TYPE 1 FRAME & CLOSED LID	TO REMAIN	EXISTING RIM	PROPOSED RIM
58+79.5, 36.4' RT.	--	--	--	--	--	--	X	689.85	--
58+79.8, 29.9' RT.	X	--	--	--	--	--	--	--	--
61+28.1, 25.5' RT.	X	--	--	--	--	--	--	--	--
61+28.5, 37.0' RT.	--	--	--	--	--	--	X	688.86	--
61+29.0, 26.3' LT.	X	--	--	--	--	--	--	--	--
61+97.6, 42.5' LT.	--	--	--	--	--	--	X	--	--

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RIGHT OF WAY CHECKED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
NOTE BOOK
NO.
STRUCTURE NOTATIONS CHKD
BY
DATE



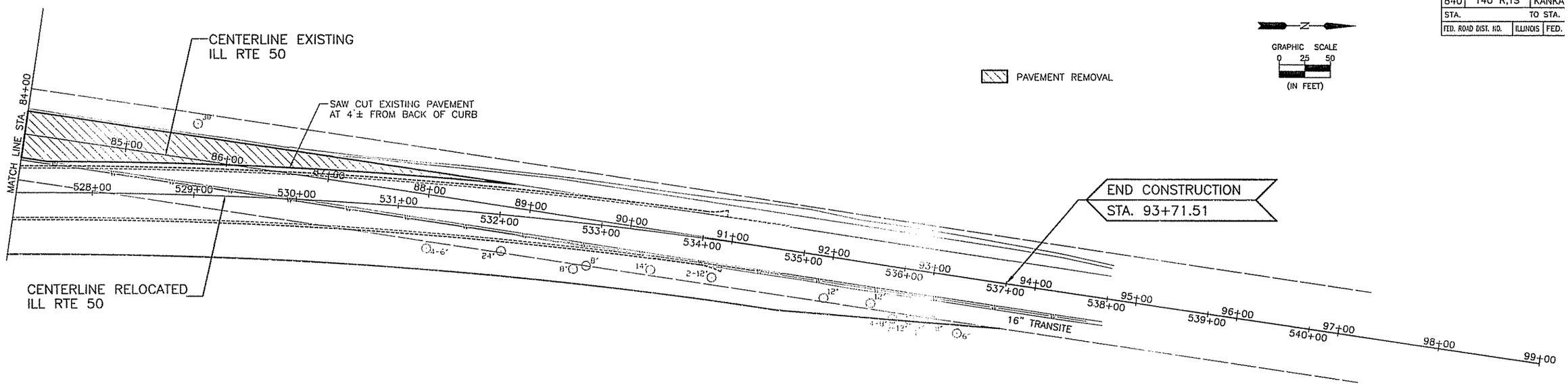
F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAK
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED.



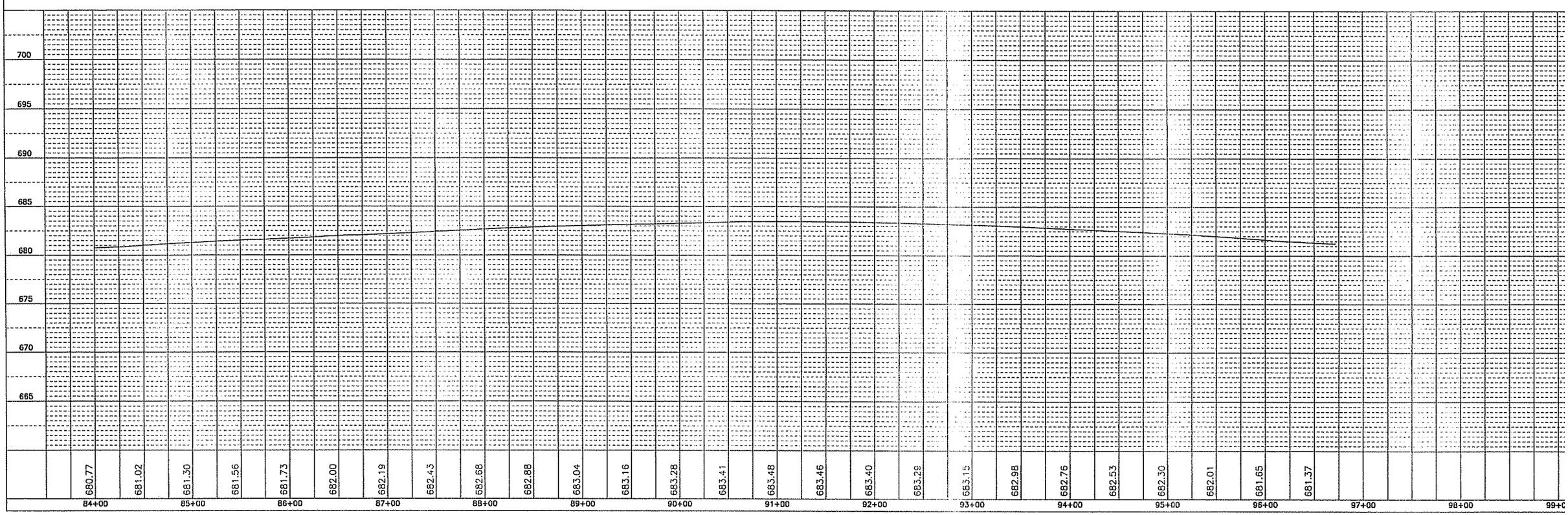
PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/W CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
STAL NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED.



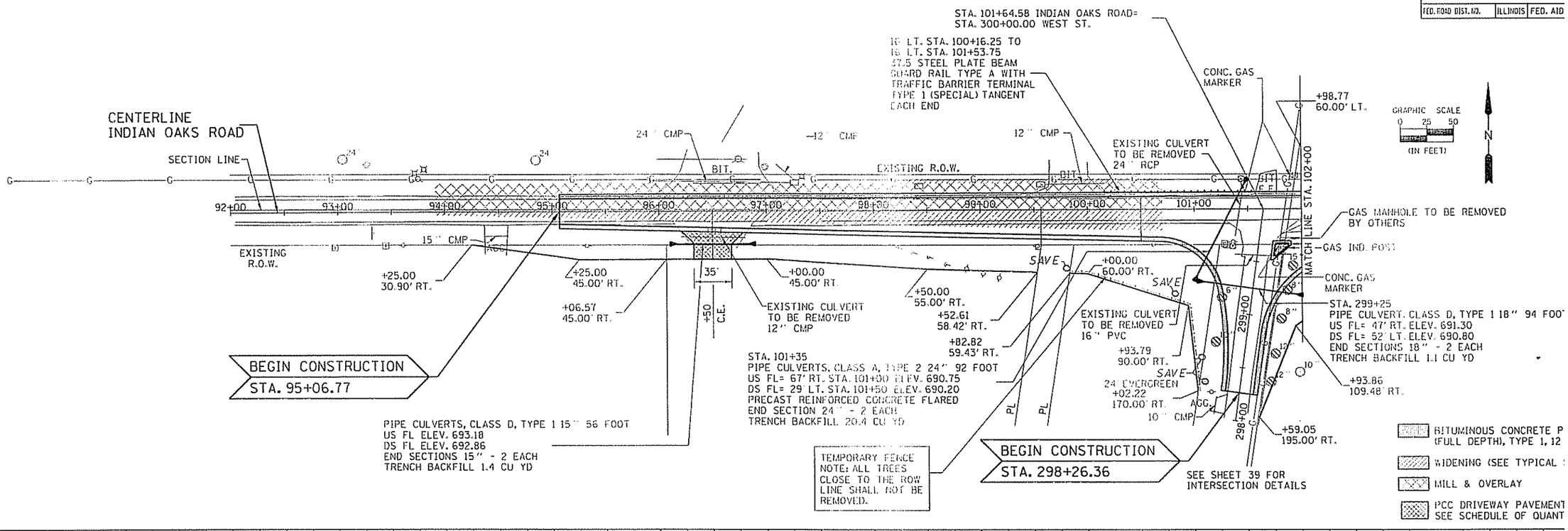
NOTE:
WORK THIS SHEET WITH SHEET 16
(RELOCATED ILL RTE 50)

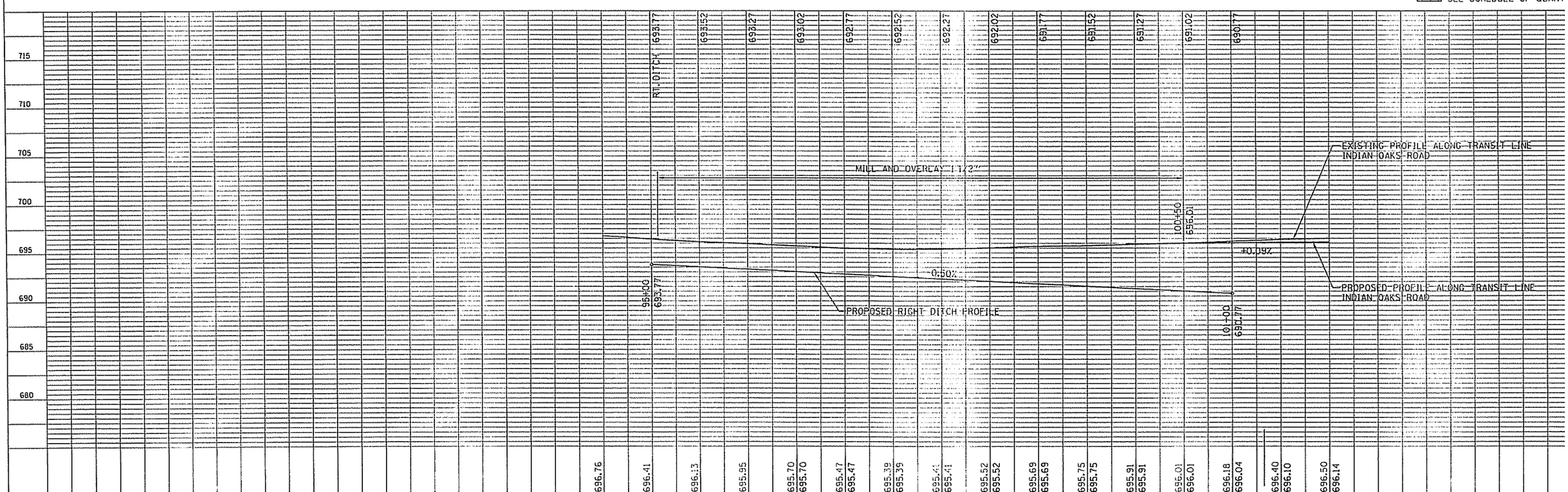


PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
BY
NOTE BOOK
NO.
CADD FILE NAME
BY DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BY
NOTE BOOK
NO.
STRUCTURE NOTATIONS CHKD
BY DATE

F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED. AID





PLAN
SURVEYED
PLOTTED
HLOP WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

ed0300\consult\final\ 87-102.dgn

F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED.

PCC DRIVEWAY PAVEMENT
SEE SCHEDULE OF QUANTITIES

BITUMINOUS CONCRETE PAVEMENT
(FULL DEPTH), TYPE 1. 12 1/2"

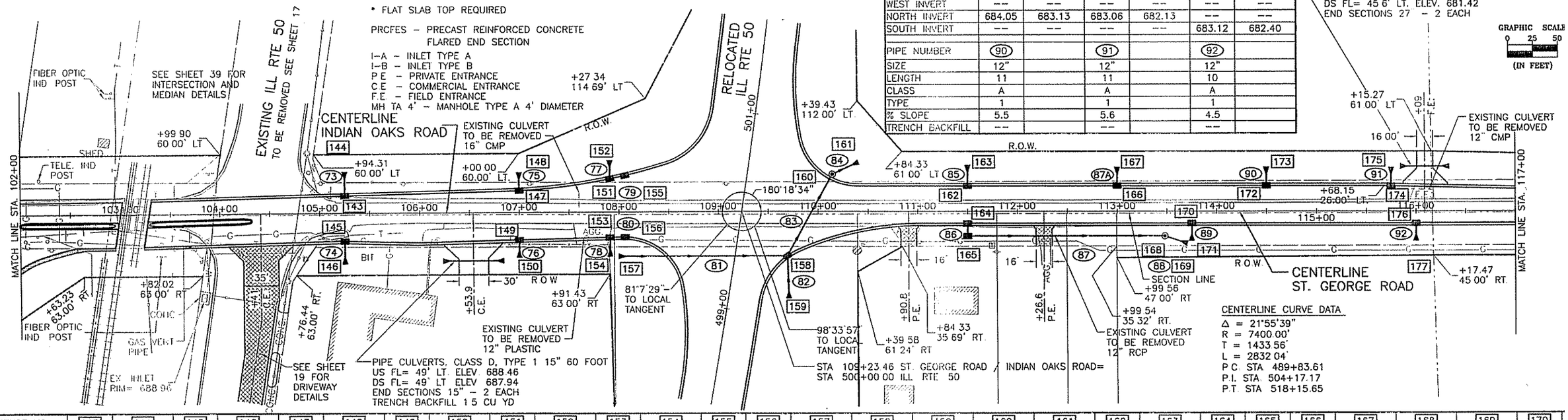
NOTE:
OFFSETS SHOWN ARE TO EDGE OF PAVEMENT OR TO FLARED END OF END SECTIONS. WHERE STRUCTURE IS NOT IN CURB AND GUTTER OFFSET IS TO CENTER OF STRUCTURE
RIM ELEVATIONS ARE AT FLOWLINE OF GUTTER OR TOP OF GRATE/LID

* FLAT SLAB TOP REQUIRED

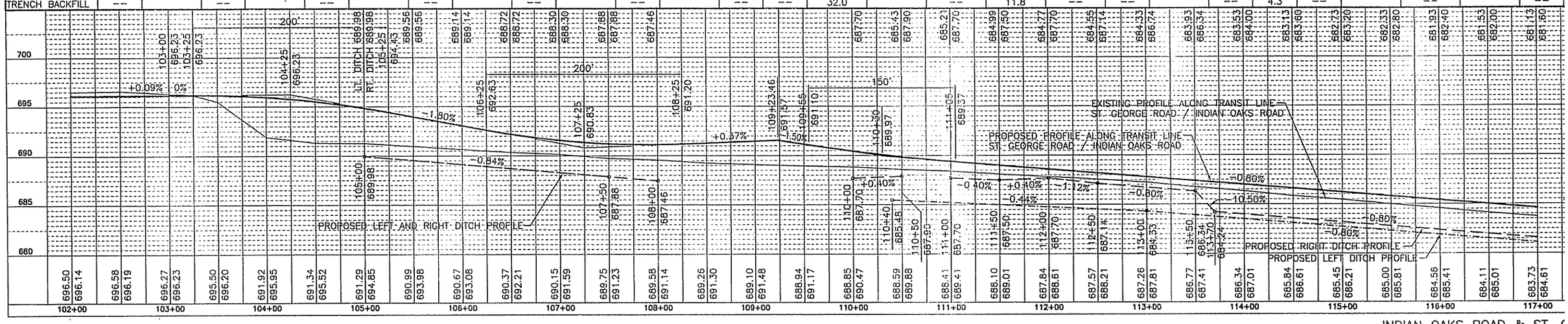
PRCFES – PRECAST REINFORCED CONCRETE FLARED END SECTION
I–A – INLET TYPE A
I–B – INLET TYPE B
P E – PRIVATE ENTRANCE
C E – COMMERCIAL ENTRANCE
F.E – FIELD ENTRANCE
MH TA 4' – MANHOLE TYPE A 4' DIAMETER

SEE SHEET 38 FOR INTERSECTION DETAILS

STRUCTURE NO	172	173	174	175	176	177
STA	114+50	114+50	115+75	115+75	116+00	116+00
OFFSET	26' LT.	44.4' LT.	25.83' LT.	44.1' LT.	12' RT.	29.6' RT.
STRUCTURE TYPE	I–A	PRCFES 12"	I–A	PRCFES 12"	I–A	PRCFES 12"
F&G TYPE	3V	--	3V	--	3V	--
RIM ELEVATION	686.01	--	685.02	--	685.08	--
EAST INVERT	--	--	--	--	--	--
WEST INVERT	--	--	--	--	--	--
NORTH INVERT	684.05	683.13	683.06	682.13	--	--
SOUTH INVERT	--	--	--	--	683.12	682.40
PIPE NUMBER	90		91		92	
SIZE	12"		12"		12"	
LENGTH	11		11		10	
CLASS	A		A		A	
TYPE	1		1		1	
% SLOPE	5.5		5.6		4.5	
TRENCH BACKFILL	--		--		--	



STRUCTURE NO.	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170
STA	105+25	105+25	105+25	105+25	107+00	107+00	107+00	107+00	107+91	107+91	107+91	107+91	108+06	108+06	108+00	109+69.03	109+70.53	110+14.27	110+40	111+50	111+50	111+50	111+50	113+00	113+00	113+48	113+70	113+75
OFFSET	17.8' LT.	41.6' LT.	28.37' RT.	51.2' RT.	22.33' LT.	40.2' LT.	27.89' RT.	45.3' RT.	33.96' LT.	52.2' LT.	25.64' RT.	44.5' RT.	37.26' LT.	25.32' RT.	54.2' RT.	45.04' RT.	87.46' RT.	37.98' LT.	50' LT.	26' LT.	46.5' LT.	12' RT.	25' RT.	26' LT.	44.4' LT.	25' RT.	32.5' RT.	12' RT.
STRUCTURE TYPE	I–A	PRCFES 12"	I–A	PRCFES 12"	I–A	PRCFES 12"	I–A	PRCFES 12"	I–B*	PRCFES 12"	I–B*	PRCFES 12"	I–A	I–A	PRCFES 18"	MH TA 5'	PRCFES 30"	MH TA 5'	PRCFES 30"	I–A	PRCFES 12"	I–A	I–B*	I–A	PRCFES 12"	I–B*	PRCFES 12"	I–A
F&G TYPE	3V	--	3V	--	3V	--	3V	--	3	--	3	--	3	3	--	3	--	1(C)	--	3V	--	3V	8	3V	--	8	--	3V
RIM ELEVATION	694.00	--	693.78	--	691.07	--	690.95	--	690.38	--	690.54	--	690.46	690.56	--	689.87	--	690.05	--	688.41	--	688.68	687.50	687.21	--	686.36	--	686.88
EAST INVERT	--	--	--	--	--	--	--	--	687.92	--	688.08	--	--	--	--	--	--	685.56	685.48	--	--	--	685.67	--	--	684.38	--	--
WEST INVERT	--	--	--	--	--	--	--	--	--	--	--	--	688.50	688.66	687.46	685.82	--	--	--	--	--	--	685.67	--	--	684.38	684.24	--
NORTH INVERT	692.04	689.77	--	--	689.11	688.30	--	--	687.92	687.54	--	--	--	--	--	685.82	--	--	--	686.45	684.99	--	--	685.25	684.33	--	--	--
SOUTH INVERT	--	--	691.82	689.77	--	--	688.99	688.30	--	--	688.08	687.54	--	--	--	685.82	685.94	685.56	--	--	--	686.72	--	--	--	--	--	684.92
PIPE NUMBER	73		74		75		76		77		78		79	80	81		82	83	84	85		86	87	87A		88		89
SIZE	12"		12"		12"		12"		12"		12"		12"	12"	18"		30"	30"	30"	12"		12"	12"	12"		12"		12"
LENGTH	16		15		10		10		11		11		14	14	162		34	92	20	13		10	196	11		19		10
CLASS	A		A		A		A		A		A		A	A	A		A	A	A	A		A	A	A		A		A
TYPE	1		1		1		1		1		1		1	1	1		1	1	1	1		1	1	1		1		1
% SLOPE	10.3		9.7		5.0		4.4		2.3		3.1		4.1	4.1	1.0		2.8	2.8	2.8	7.8		10.5	0.66	5.5		0.55		4.5
TRENCH BACKFILL	--		--		--		--		--		--		--	--	32.0		--	11.8	--	--		--	4.3	--		--		--



INDIAN OAKS ROAD & ST. G

F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA. 117+00		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED.

STRUCTURE NO.	178	179	180	181	182	183	184	185	186	187
STA	117+25	117+25	118+25	118+25	118+75	118+75	119+95	119+95	119+95	119+95
OFFSET	22.08' LT.	39.5' LT.	12' RT.	29.6' RT.	19.58' LT.	38.5' LT.	15.33' LT.	34.6' LT.	12' RT.	28.8' RT.
STRUCTURE TYPE	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"	I-A	PRCFES 12"
F&G TYPE	3V	--	3V	--	3V	--	3V	--	3V	--
RIM ELEVATION	683.89	--	683.28	--	682.74	--	681.87	--	681.92	--
EAST INVERT	--	--	--	--	--	--	--	--	--	--
WEST INVERT	--	--	--	--	--	--	--	--	--	--
NORTH INVERT	681.93	680.93	--	--	680.78	679.73	679.91	678.77	--	--
SOUTH INVERT	--	--	681.32	680.60	--	--	--	--	679.96	679.42
PIPE NUMBER	93		94		95		96		97	
SIZE	12"		12"		12"		12"		12"	
LENGTH	10		10		11		12		9	
CLASS	A		A		A		A		A	
TYPE	1		1		1		1		1	
% SLOPE	6.4		4.5		6.1		6.5		3.6	
TRENCH BACKFILL	--		--		--		--		--	

NOTE:
OFFSETS SHOWN ARE TO EDGE OF PAVEMENT OR TO FLARED END OF END SECTIONS WHERE STRUCTURE IS NOT IN CURB AND GUTTER OFFSET IS TO CENTER OF STRUCTURE
RIM ELEVATIONS ARE AT FLOWLINE OF GUTTER OR TOP OF GRATE/LID

* FLAT SLAB TOP REQUIRED

PRCFES – PRECAST REINFORCED CONCRETE FLARED END SECTION

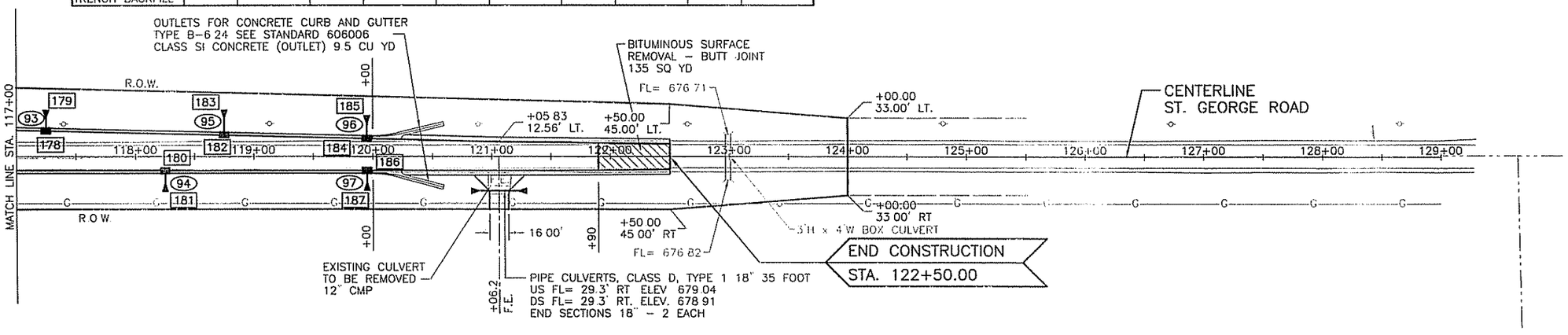
I-A – INLET TYPE A

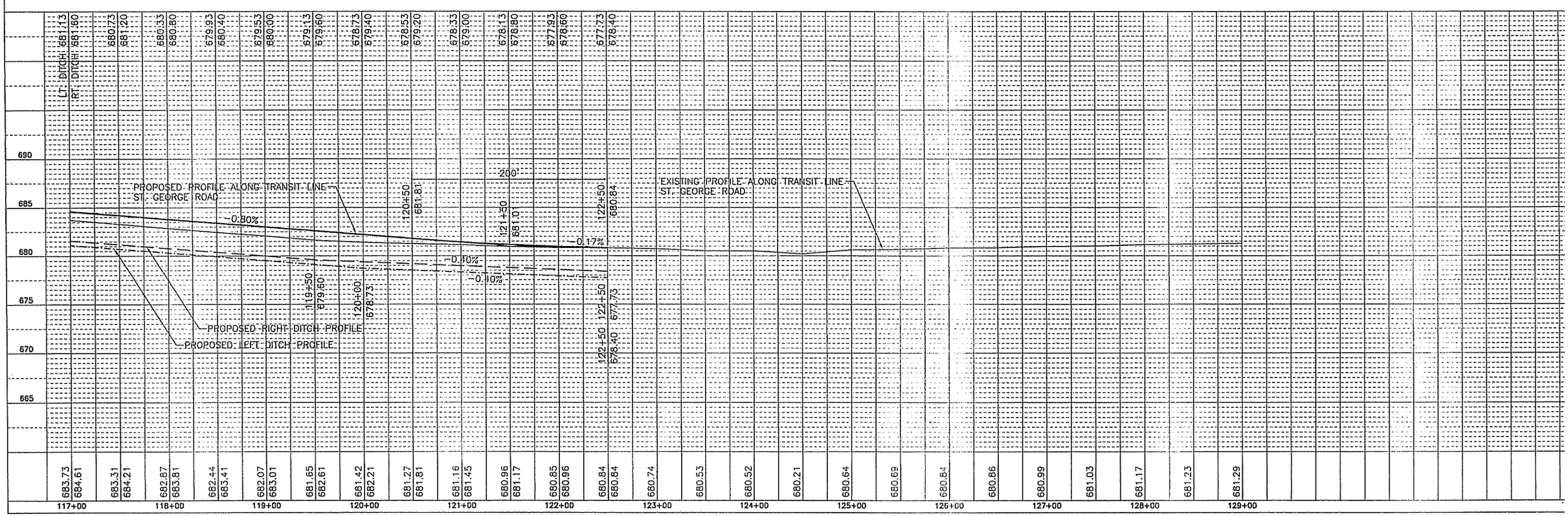
C E – COMMERCIAL ENTRANCE

F E – FIELD ENTRANCE

GRAPHIC SCALE
0 25 50
(IN FEET)

N



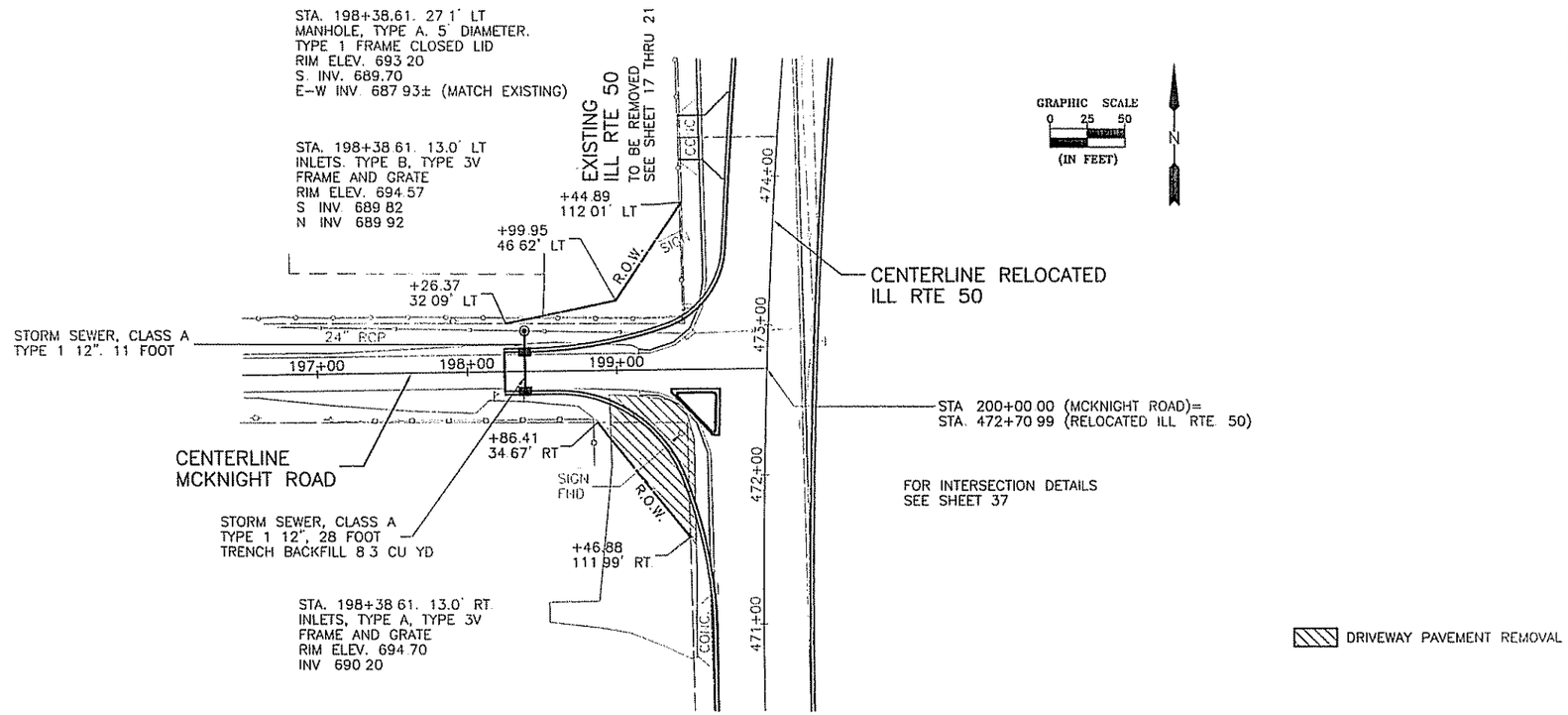


PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
BLR. NOTES
CADD FILE NAME
NOTE BOOK NO.
BY
DATE

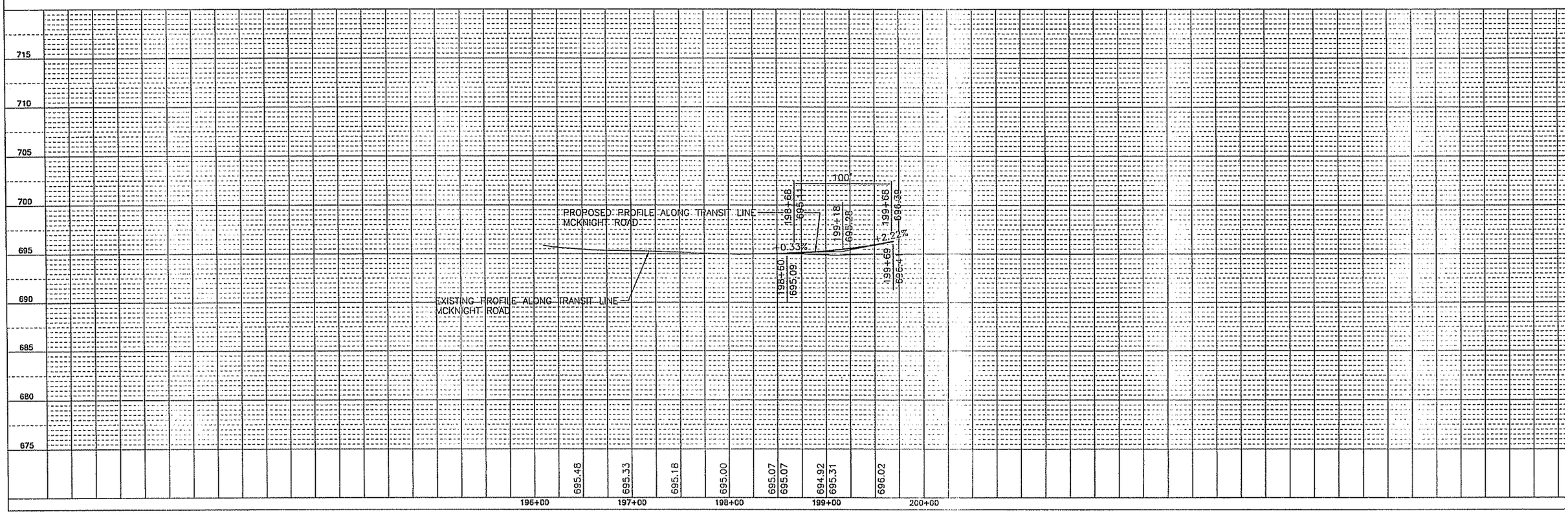
PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BLR. NOTES
STRUCTURE NOTATIONS CHKD
NOTE BOOK NO.
BY
DATE

INDIAN OAKS ROAD & ST. G

F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.		TO STA.
FED. ROAD DIST. NO.	ILLINOIS	FED.



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RIGHT OF WAY CHECKED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE



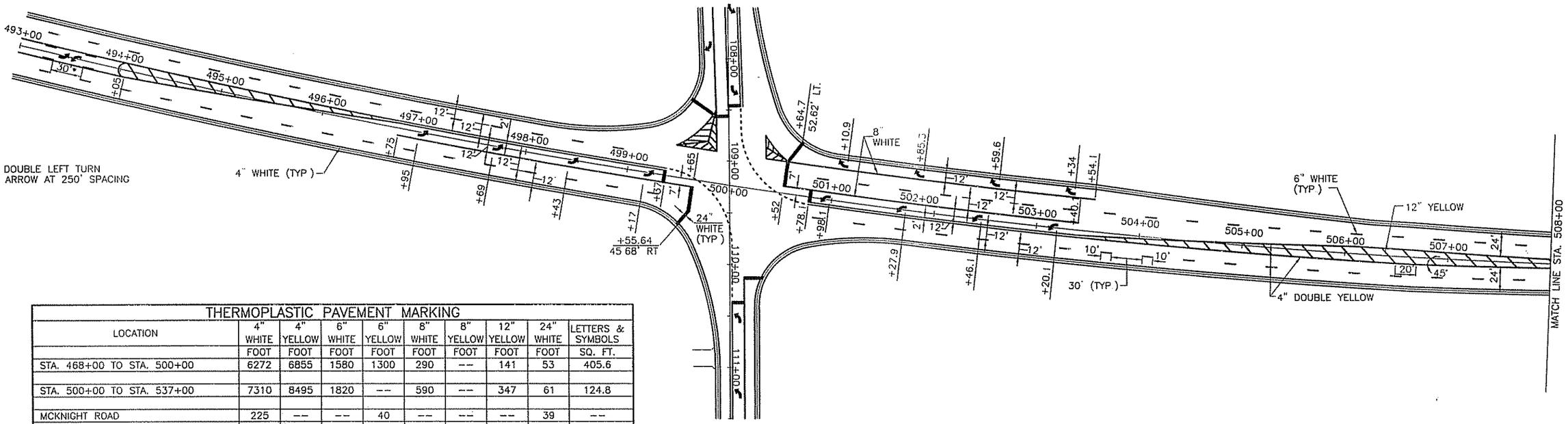
PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BRIDGE
PROJECT NO. 10TATHS CH7AD
NOTE BOOK
NO.
BY
DATE

MCK

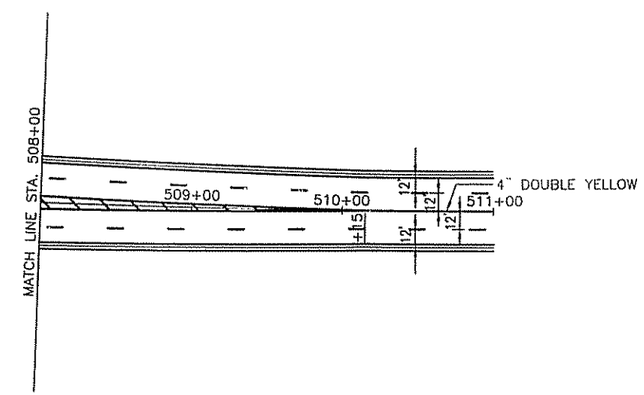
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	35
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

* 140 R.TS

GRAPHIC SCALE
0 25 50
(IN FEET)



THERMOPLASTIC PAVEMENT MARKING									
LOCATION	4" WHITE	4" YELLOW	6" WHITE	6" YELLOW	8" WHITE	8" YELLOW	12" YELLOW	24" WHITE	LETTERS & SYMBOLS
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ. FT.
STA. 468+00 TO STA. 500+00	6272	6855	1580	1300	290	--	141	53	405.6
STA. 500+00 TO STA. 537+00	7310	8495	1820	--	590	--	347	61	124.8
MCKNIGHT ROAD	225	--	--	40	--	--	--	39	--
TOTAL	13807	15350	3400	1340	880	--	488	153	530.4



RAISED REFLECTIVE PAVEMENT MARKERS	
LOCATION	EACH
RELOCATED ILL. RTE. 50	
SOUTH OF ST. GEORGE ROAD	
ONE-WAY CRYSTAL	88
ONE-WAY AMBER	4
TWO-WAY AMBER	158
NORTH OF ST. GEORGE ROAD	
ONE-WAY CRYSTAL	109
ONE-WAY AMBER	25
TWO-WAY AMBER	92
TOTAL	476

** SEE SHEET 37 FOR PAVEMENT MARKING AT MCKNIGHT ROAD

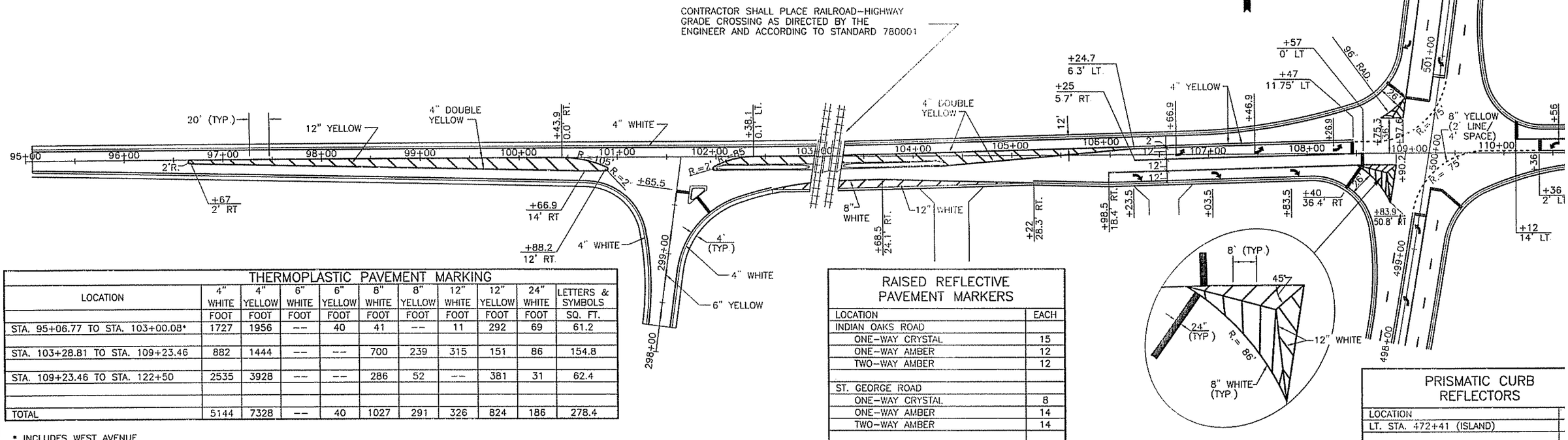
PAVEMENT MARKING PLAN
ILL. RTE. 50
F.A.P. ROUTE 840 – SECTION 140
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

* 140 R,TS

GRAPHIC SCALE
0 25 50
(IN FEET)

N

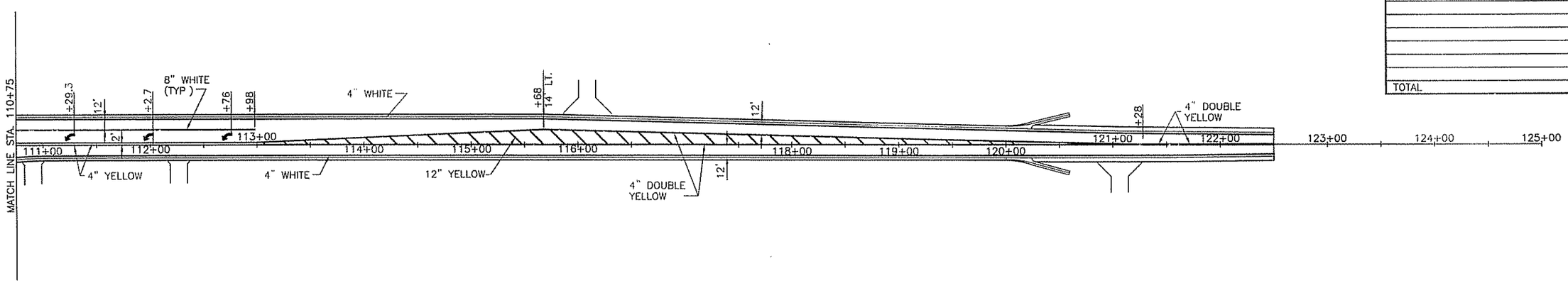


THERMOPLASTIC PAVEMENT MARKING										
LOCATION	4" WHITE	4" YELLOW	6" WHITE	6" YELLOW	8" WHITE	8" YELLOW	12" WHITE	12" YELLOW	24" WHITE	LETTERS & SYMBOLS
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ. FT.
STA. 95+06.77 TO STA. 103+00.08*	1727	1956	--	40	41	--	11	292	69	61.2
STA. 103+28.81 TO STA. 109+23.46	882	1444	--	--	700	239	315	151	86	154.8
STA. 109+23.46 TO STA. 122+50	2535	3928	--	--	286	52	--	381	31	62.4
TOTAL	5144	7328	--	40	1027	291	326	824	186	278.4

* INCLUDES WEST AVENUE

RAISED REFLECTIVE PAVEMENT MARKERS	
LOCATION	EACH
INDIAN OAKS ROAD	
ONE-WAY CRYSTAL	15
ONE-WAY AMBER	12
TWO-WAY AMBER	12
ST. GEORGE ROAD	
ONE-WAY CRYSTAL	8
ONE-WAY AMBER	14
TWO-WAY AMBER	14
TOTAL	75

PRISMATIC CURB REFLECTORS
LOCATION
LT. STA. 472+41 (ISLAND)
RT. STA. 299+63 (ISLAND)
MED. STA. 101+99.6
MED. STA. 104+32.3
TOTAL



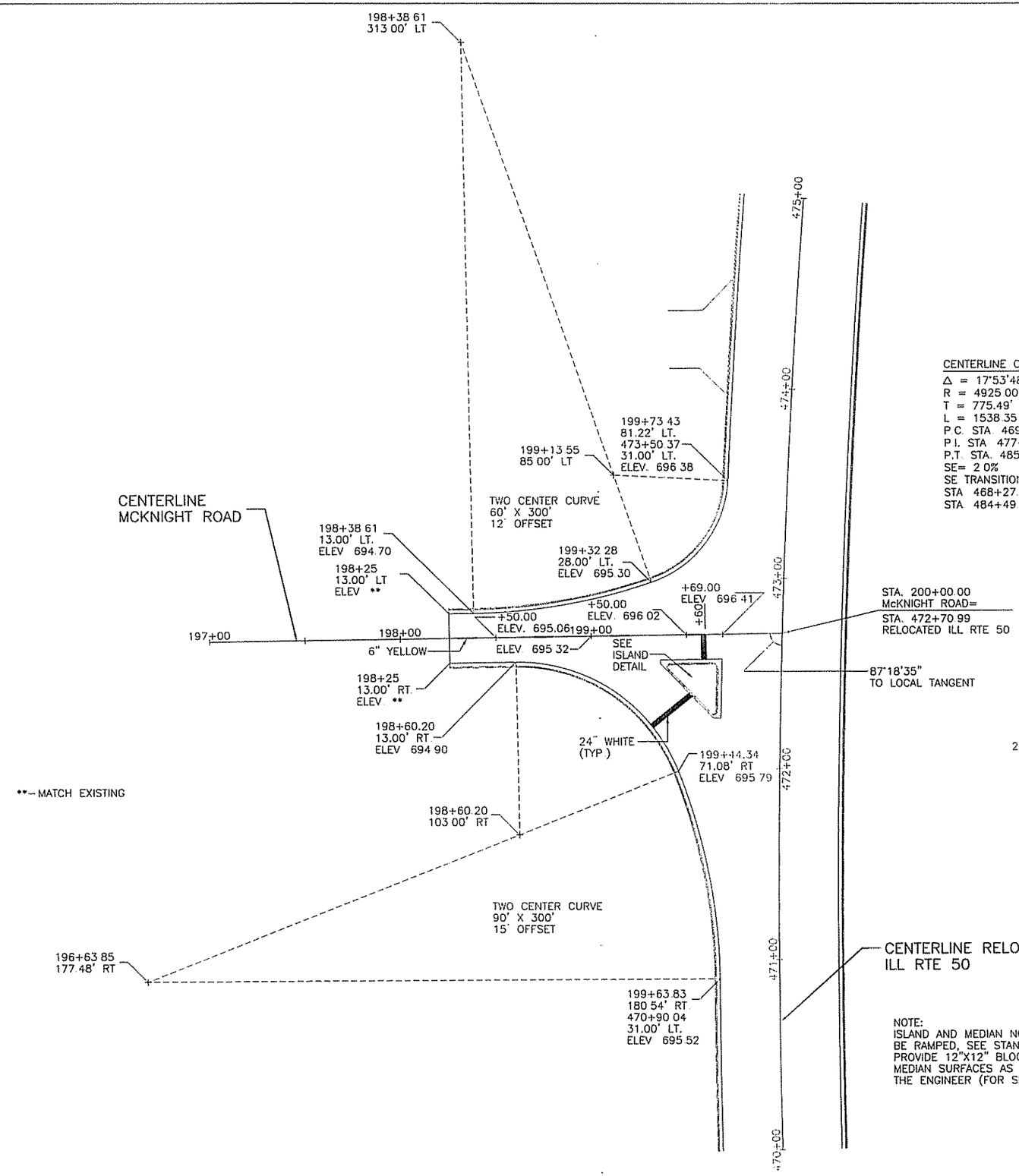
PAVEMENT MARKING PLAN
INDIAN OAKS ROAD / ST. GEORGE
F.A.P. ROUTE 840 – SECTION 140
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	37
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

* 140 R.TS

GRAPHIC SCALE
0 15 30
(IN FEET)

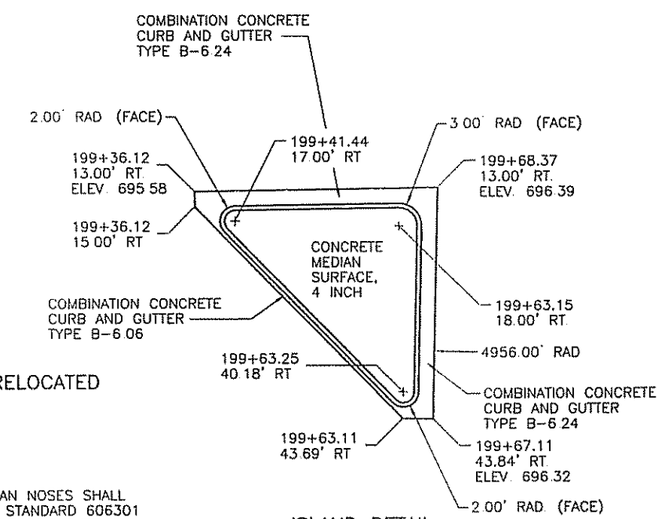
N



CENTERLINE CURVE DATA

Δ = 17°53'48"
R = 4925 00'
T = 775.49'
L = 1538 35
P.C. STA. 469+93.78
P.I. STA 477+69.27
P.T. STA. 485+32 13
SE= 2 0%
SE TRANSITION
STA 468+27.78 TO 470+76.78
STA 484+49.13 TO 486+98.13

NOTE:
ISLAND AND MEDIAN NOSES SHALL BE RAMPED, SEE STANDARD 606301 PROVIDE 12"X12" BLOCK OUTS IN MEDIAN SURFACES AS DIRECTED BY THE ENGINEER (FOR SIGN PLACEMENT)

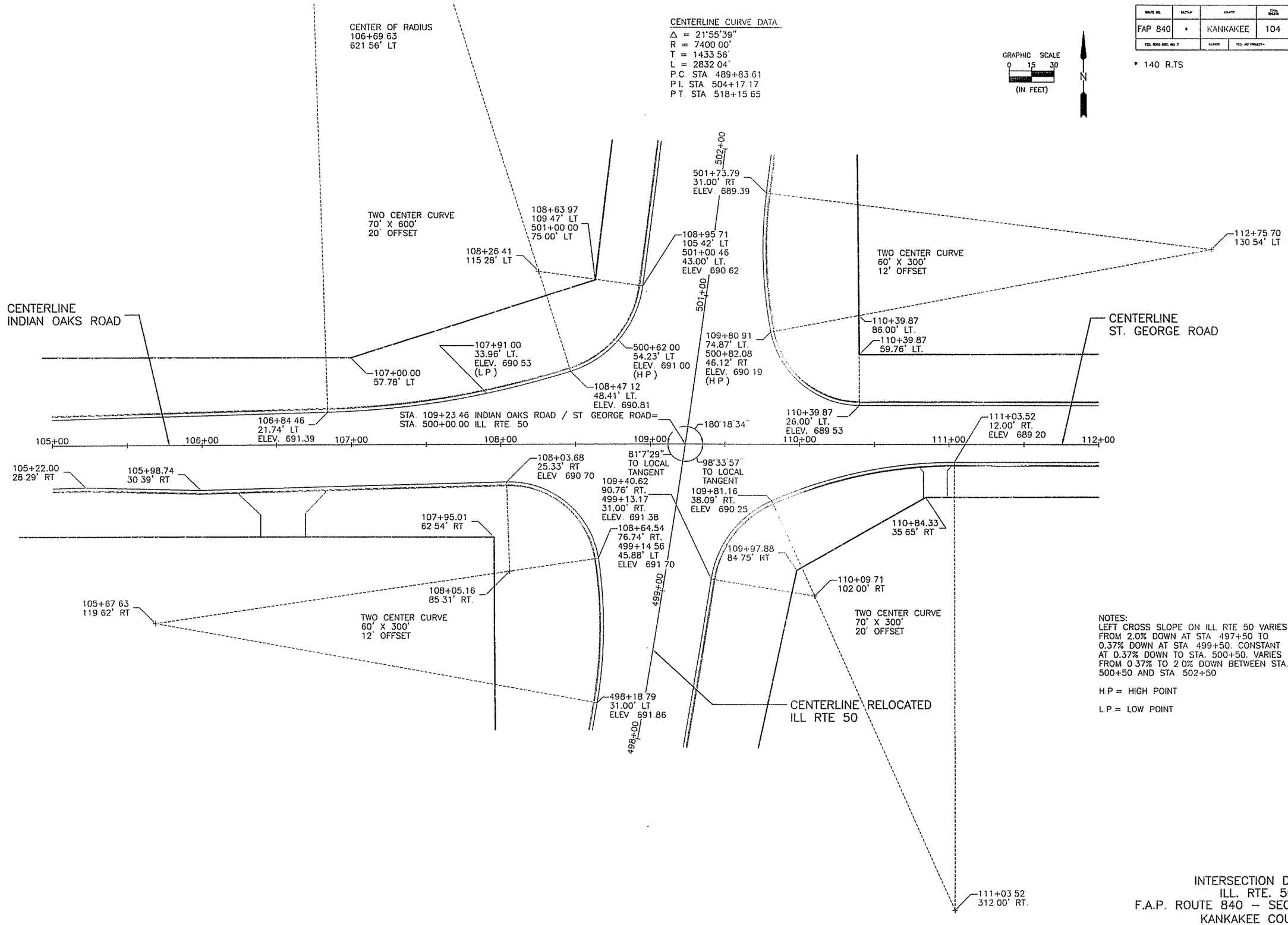


ISLAND DETAIL

INTERSECTION DETAIL
MCKNIGHT ROAD
F.A.P. ROUTE 840 – SECTION 140
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	38
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

* 140 R.TS



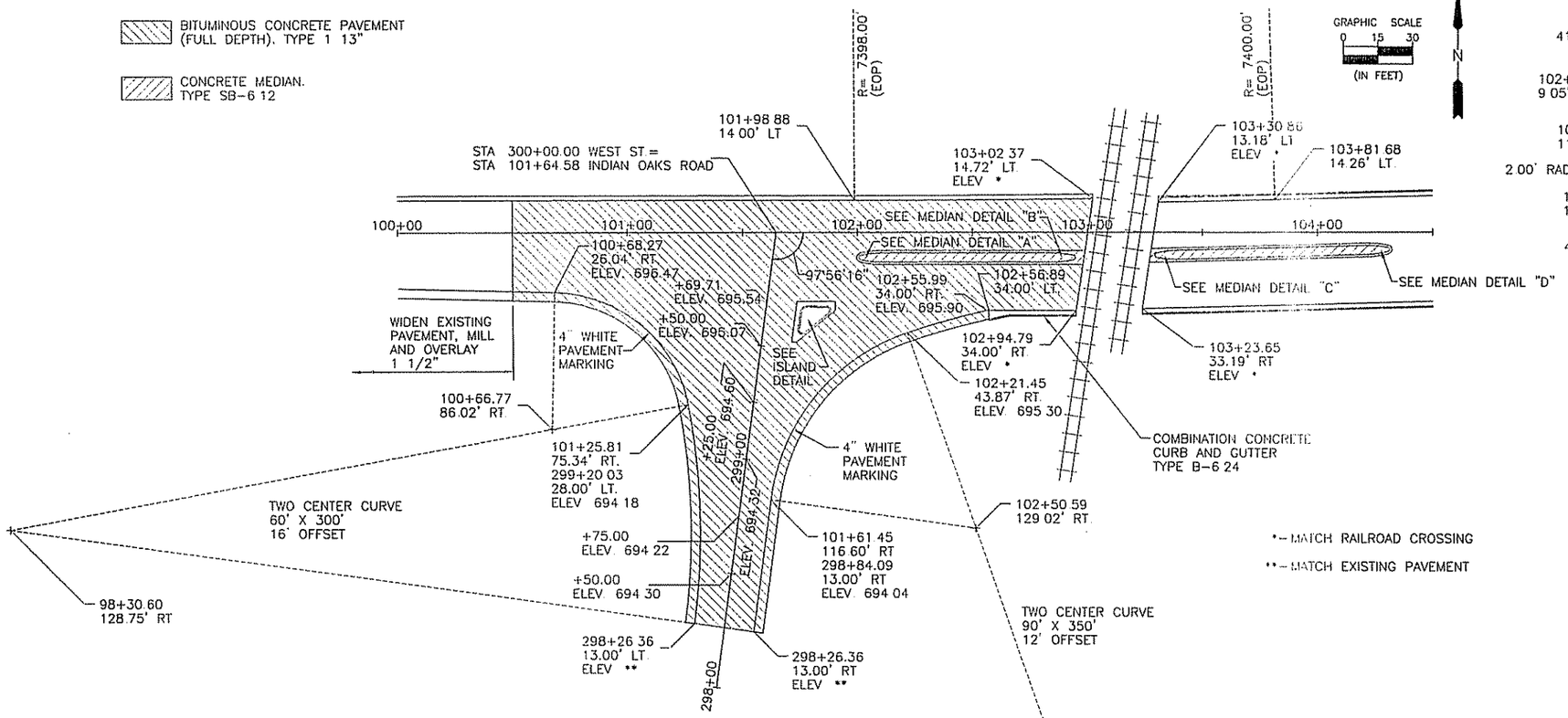
NOTES:
LEFT CROSS SLOPE ON ILL. RTE. 50 VARIES FROM 2.0% DOWN AT STA. 497+50 TO 0.37% DOWN AT STA. 499+50. CONSTANT AT 0.37% DOWN TO STA. 500+50. VARIES FROM 0.37% TO 2.0% DOWN BETWEEN STA. 500+50 AND STA. 502+50

H.P. = HIGH POINT

L.P. = LOW POINT

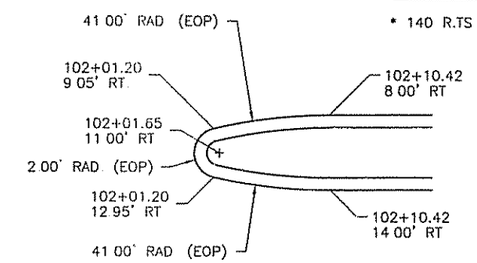
INTERSECTION DETAIL
ILL. RTE. 50
F.A.P. ROUTE 840 – SECTION 140
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	39
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

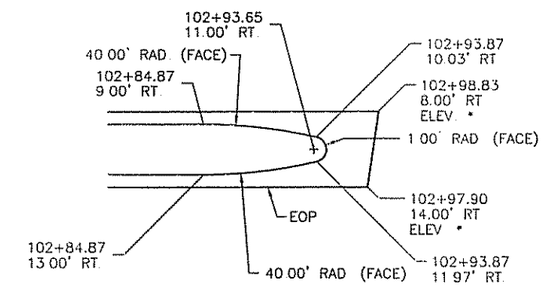


*- MATCH RAILROAD CROSSING

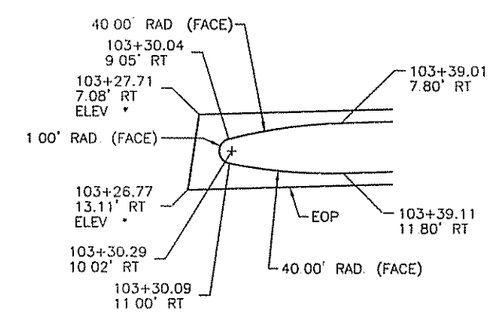
**- MATCH EXISTING PAVEMENT



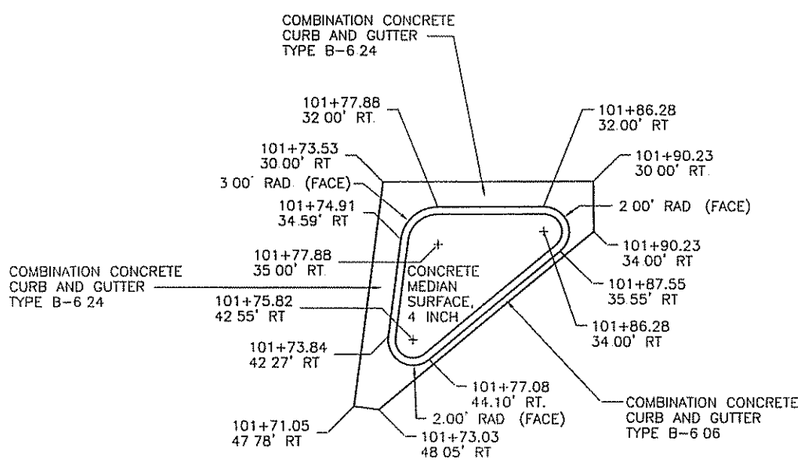
MEDIAN DETAIL "A"



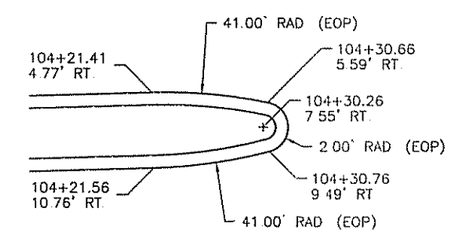
MEDIAN DETAIL "B"



MEDIAN DETAIL "C"



ISLAND DETAIL



MEDIAN DETAIL "D"

NOTE:
ISLAND AND MEDIAN NOSES SHALL BE RAMPED. SEE STANDARD 606301 PROVIDE 12"X12" BLOCK OUTS IN MEDIAN SURFACES AS DIRECTED BY THE ENGINEER (FOR SIGN PLACEMENT)

INTERSECTION DETAIL
WEST STREET
F.A.P. ROUTE 840 – SECTION 140
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	45
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

* 140 R.TS

GENERAL NOTES

1 THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (JULIE 800-892-0123).

2 ALL DETECTOR AMPLIFIERS SHALL BE SINGLE CHANNEL AND SHELF MOUNTED

3 ALL SIGNAL BASES SHALL BE LOCATED A MINIMUM OF 6 FEET FROM THE FACE OF CURB TO EDGE OF THE FOUNDATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

4 ALL CONDUIT IN TRENCH SHALL BE PVC ALL CONDUIT PUSHED MAY BE GALVANIZED STEEL OR PVC. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.

5 A 1/4 INCH DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE CONDUIT PAY ITEM.

6 THE PROPOSED TRAFFIC SIGNAL CONTROL CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT AS INCIDENTAL TO THE CONTROL CABINET PAY ITEM

7 THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON, INCIDENTAL TO THE CONTROLLER PAY ITEM.

8. THE DEPARTMENT OF TRANSPORTATION (815-434-8506) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE TURNING ON OF THE CONTROLLER UNIT

9 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL AND STREET LIGHTING. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION

10 NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES

11. ALL MAST ARM SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER

12 THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.

13 ALL DETECTOR LOOP HARNESSES SHALL BE FURNISHED WITH PLASTIC TAGS LABELED WITH RESPECTIVE PHASES AND DIRECTION AS LISTED IN THE DETECTOR LOOP CHART. MINIMUM TAG SIZE OF 1/2" BY 1". ALL DETECTOR AMPLIFIERS SHALL BE LABELED AS THE SAME AS THE HARNESS WITH A REMOVABLE TAG. TAGS SHALL BE MADE OF A MATERIAL THAT DOES NOT ALLOW WRITING TO FADE OVER TIME

14 THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. INCIDENTAL TO THE CONDUIT PAY ITEM

15 ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE. PRIOR TO ASSEMBLY.

16 DOUBLE FUSED FUSE HOLDERS AND SURGE ARRESTORS ARE TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN THE BASE OF THE COMBINATION MAST ARM AS INCIDENTAL TO THE LIGHT FIXTURE PAY ITEM. THE LIGHT FIXTURE ON THE COMBINATION MAST ARM SHALL BE ATTACHED TO AN 8 FOOT ARM AS SHOWN IN THE STANDARD DRAWINGS SPECIFICALLY STATED OTHERWISE ELSEWHERE IN THE PLANS

17 THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.

18 BACKPLATES MUST BE POLYCARBONATE WITH A DEEP BACK FLANGE.

19 THE CONTRACTOR SHALL PROVIDE 3 FEET SLACK CABLE IN EACH TRAFFIC SIGNAL STRUCTURE: MAST ARM, POST, CONTROLLER. THE SLACK, WHICH IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE SPECIFICATIONS. SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH CABLE

20 THE CONTRACTOR SHALL PROVIDE 13 FEET OF SLACK IN EACH CABLE, NEATLY WOUND ON THE HOOKS, IN THE DOUBLE HANDHOLE. THE CABLE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH CABLE

SCHEDULE OF QUANTITIES

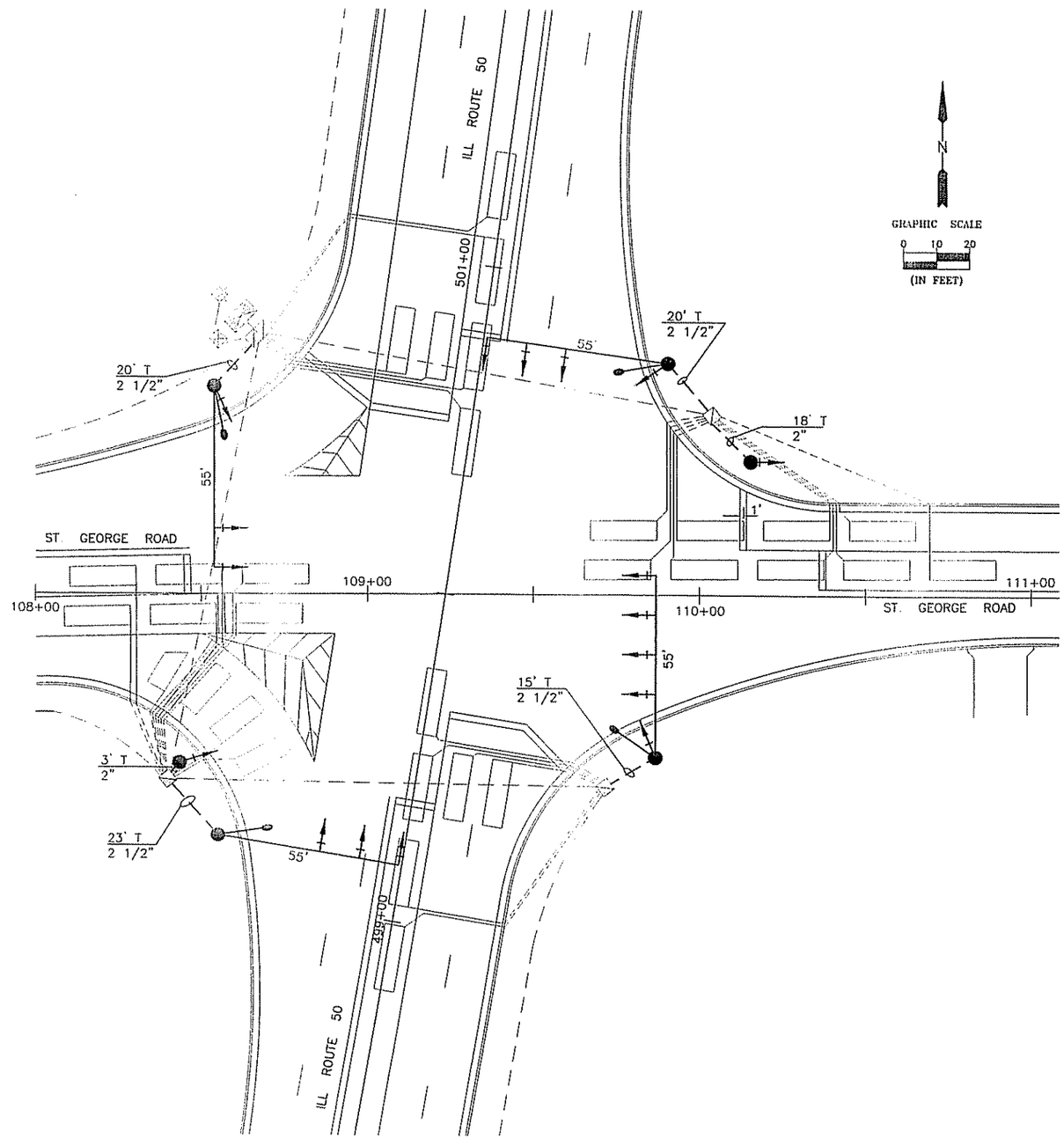
CODE NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
72000100	SIGN PANEL, TYPE 1	SQ FT	38
72000200	SIGN PANEL, TYPE 2	SQ FT	30
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	21
81012700	CONDUIT IN TRENCH, 2 1/2" DIA PVC	FOOT	78
82202110	ELECTRIC CABLE IN CONDUIT, 600 V (XLP - TYPE USE) 1/C NO. 10	FOOT	2199
82401240	ELECTRIC CABLE IN CONDUIT SIGNAL NO 14 5/C	FOOT	2754
82401250	ELECTRIC CABLE IN CONDUIT SIGNAL NO 14 7/C	FOOT	1711
82401800	ELECTRIC CABLE IN CONDUIT SERVICE NO 6 2/C	FOOT	18
* 83202490	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 15 FT	EACH	2
83403000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	4
83600100	CONCRETE FOUNDATION, TYPE A	FOOT	6.7
83800200	CONCRETE FOUNDATION, TYPE D	FOOT	7
83800400	CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	69.3
84020150	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION POST MOUNTED	EACH	2
84020160	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
84020170	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
84020270	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
84020280	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
84200100	TRAFFIC SIGNAL BACKPLATE	EACH	17
84400250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250-VOLT	EACH	4
* 85700200	FULL ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86800100	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	99
87302500	REMOVE TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1

* INDICATES SPECIAL PROVISION

TRAFFIC SIGNAL NOTES & QUANTI
ST. GEORGE ROAD
F.A.P. ROUTE 840 - SECTION 140
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	46
FED. ROAD DIST. NO. 7		ILLINOIS	ILL. HIGHWAY PROJECT-	

* 140 R,TS



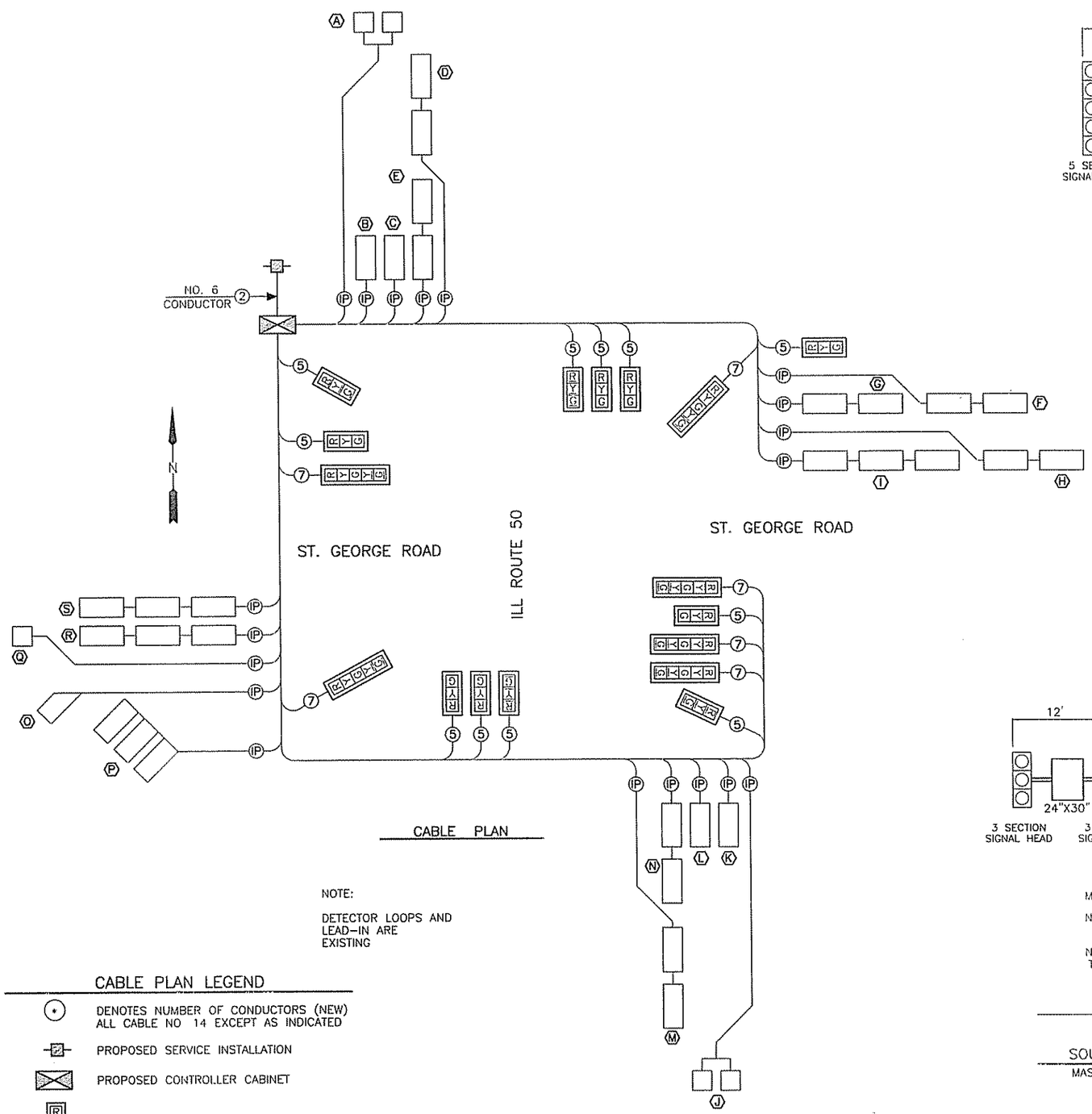
TRAFFIC SIGNALS LEGEND

- EXISTING SERVICE INSTALLATION
- PROPOSED CONTROLLER
- EXISTING DOUBLE HANDHOLE
- EXISTING HANDHOLE
- EXISTING LIGHTING CONTROLLER
- EXISTING DETECTOR LOOP
- PROPOSED STEEL MAST ARM W/ POST
- PROPOSED POST
- PROPOSED LIGHT
- PROPOSED SIGNALHEAD W/ BACKPLATE
- PROPOSED CONDUIT
- EXISTING CONDUIT

TRAFFIC SIGNAL PLAN INTERSECT
ST. GEORGE ROAD
F.A.P. ROUTE 840 – SECTION 140
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	47
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

* 140 R,TS



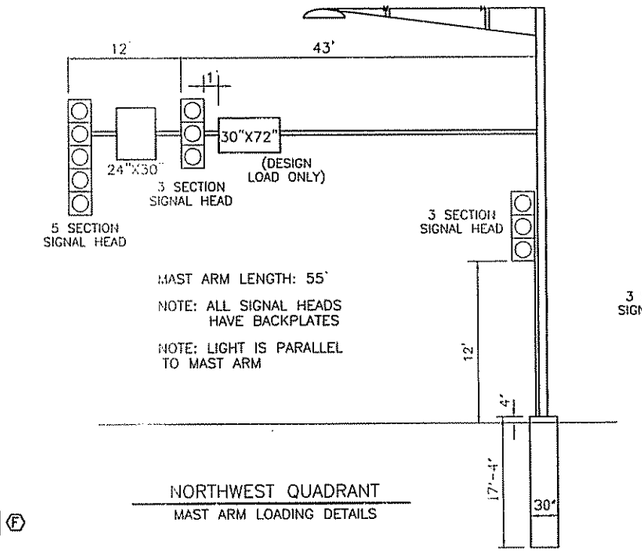
CABLE PLAN

NOTE:

DETECTOR LOOPS AND LEAD-IN ARE EXISTING

CABLE PLAN LEGEND

- DENOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO 14 EXCEPT AS INDICATED
- PROPOSED SERVICE INSTALLATION
- PROPOSED CONTROLLER CABINET
- SIGNAL FACE WITH BACK PLATE
- 12" SIGNAL SECTION

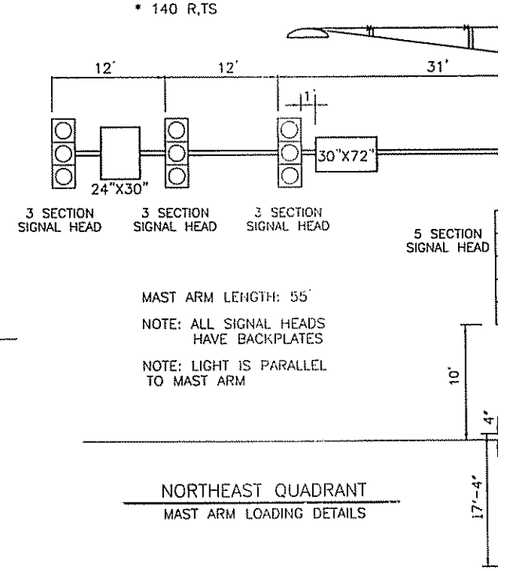


MAST ARM LENGTH: 55'

NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

NOTE: LIGHT IS PARALLEL TO MAST ARM

NORTHWEST QUADRANT
MAST ARM LOADING DETAILS

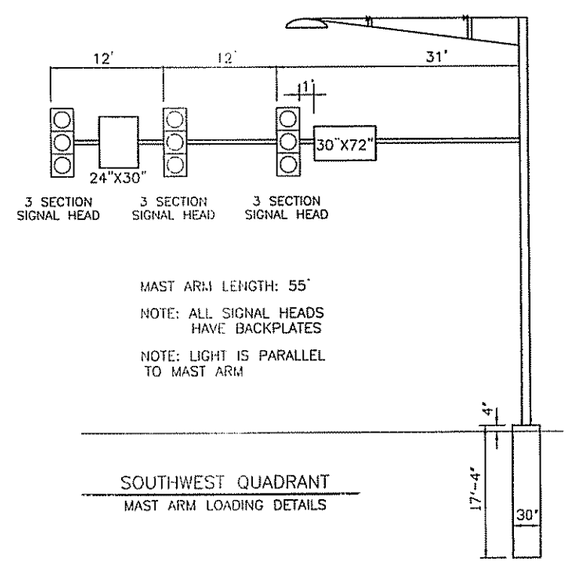


MAST ARM LENGTH: 55'

NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

NOTE: LIGHT IS PARALLEL TO MAST ARM

NORTHEAST QUADRANT
MAST ARM LOADING DETAILS

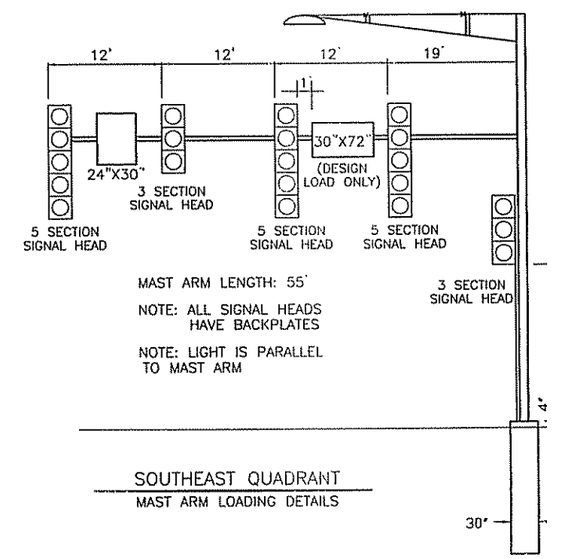


MAST ARM LENGTH: 55'

NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

NOTE: LIGHT IS PARALLEL TO MAST ARM

SOUTHWEST QUADRANT
MAST ARM LOADING DETAILS



MAST ARM LENGTH: 55'

NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

NOTE: LIGHT IS PARALLEL TO MAST ARM

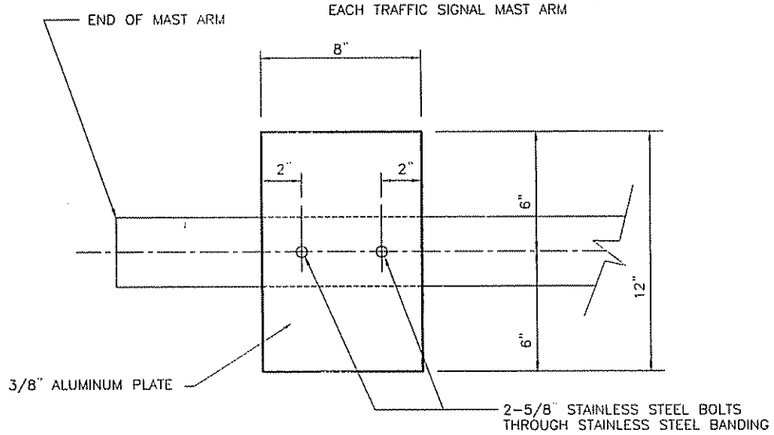
SOUTHEAST QUADRANT
MAST ARM LOADING DETAILS

CABLE PLAN & MAST ARM DIAGR
ST. GEORGE ROAD
F.A.P. ROUTE 840 – SECTION 140
KANKAKEE COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	*	KANKAKEE	104	48
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

* 140 R.TS

NOTE:
MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM

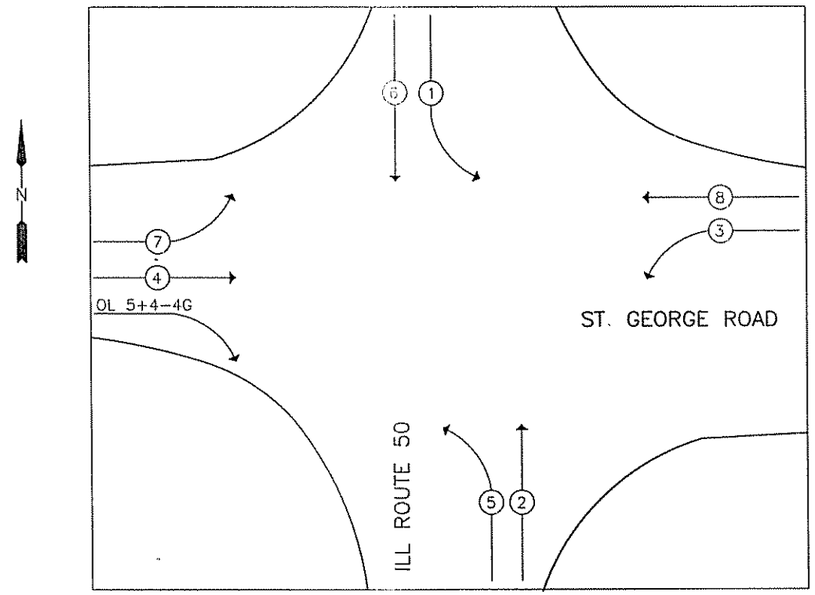


DAMPENING PLATE DETAIL – TOP VIEW
(INCIDENTAL TO THE COST OF MAST ARM PAY ITEM)

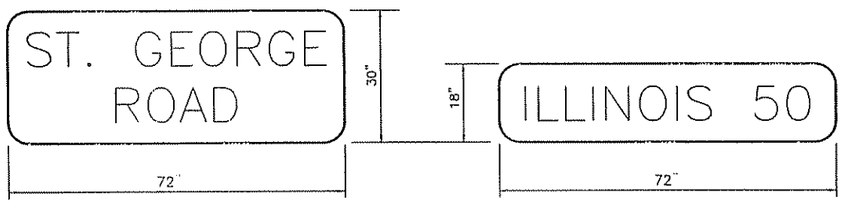
LEGEND

VEHICULAR MOVEMENT

* NUMBER REFERS TO ASSOCIATED PHASE



PHASE DESIGNATION DIAGRAM



2 SIGNS REQUIRED – 15 SQ FT EACH
30 SQ FT TOTAL

TYPE A SHEETING REQUIRED

8" D SERIES LETTERS

THIS STREET NAME SIGN WILL BE PLACED ON THE MAST ARMS PARALLEL WITH ST. GEORGE ROAD

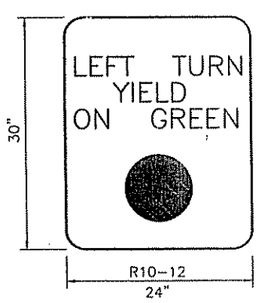
2 SIGNS REQUIRED – 9 SQ FT EACH
18 SQ FT TOTAL

TYPE A SHEETING REQUIRED

8" D SERIES LETTERS

THIS STREET NAME SIGN WILL BE PLACED ON THE MAST ARMS PARALLEL WITH ILL ROUTE 50

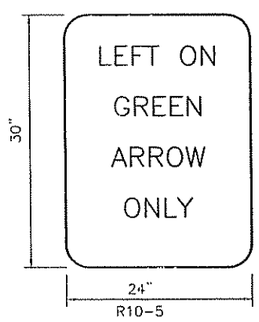
ROAD SIGNS



TYPE A SHEETING REQUIRED
2 SIGNS REQUIRED = 5 SQ FT. EACH
=10 SQ FT TOTAL

THIS SIGN SHALL BE LOCATED 6" TO 12" TO THE RIGHT OF EACH 5 SECTION MAST ARM MOUNTED LEFT TURN SIGNAL

LEFT TURN YIELD SIGN



2 SIGNS REQUIRED= 5 SQ. FT. EACH
= 10 SQ FT TOTAL

THIS SIGN SHALL BE LOCATED 6" TO 12" TO THE RIGHT OF EACH 3 SECTION MAST ARM MOUNTED LEFT TURN ARROW SIGNAL AND DIRECTLY BELOW AND PARALLEL TO THE BACKPLATE OF EACH POST BRACKETED 3 SECTION LEFT TURN ARROW SIGNAL

DETECTOR LOOP INDUCTANCE CHART

DETECTOR LOOP SYSTEM	Ø	LOCATION	TURNS PER LOOP	INDUCTANCE READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	6	SB FAR	6	362	32,078	ON
B	6	SB STBR RL	4	273	36,939	OFF
C	6	SB STBR LL	4	275	36,804	OFF
D	1	SBLT BK	4	284	36,216	ON
E	1	SBLT FR	4	278	36,605	OFF
F	8	WB BK	4	307	34,833	ON
G	8	WB FR	4	304	35,005	OFF
H	3	WBLT BK	4	315	34,388	ON
I	3	WBLT FR	4	310	34,664	OFF
J	2	NB FAR	6	423	29,675	ON
K	2	NB STBR RL	4	331	35.547	OFF
L	2	NB STBR LL	4	333	33,446	OFF
M	5	NBLT BK	4	341	33,051	ON
N	5	NBLT FR	4	336	33,296	OFF
O	--	EBRT BK	4	221	41,055	ON
P	--	EBRT FR	4	260	37,851	OFF
Q	4	EB FAR	6	368	31,816	ON
R	4	EB STBR	4	307	34,833	OFF
S	1	EBLT	4	310	34,664	ON

J PIN STATUS: "ON" MEANS STANDARD DETECTOR SETUP. "OFF" MEANS J WIRE HAS BEEN DISCONNECTED, BUT INTACT, AT THE HARNESS PANEL WITH THE NECESSARY SPADE CONNECTION ATTACHED, MARKED, AND INSULATED

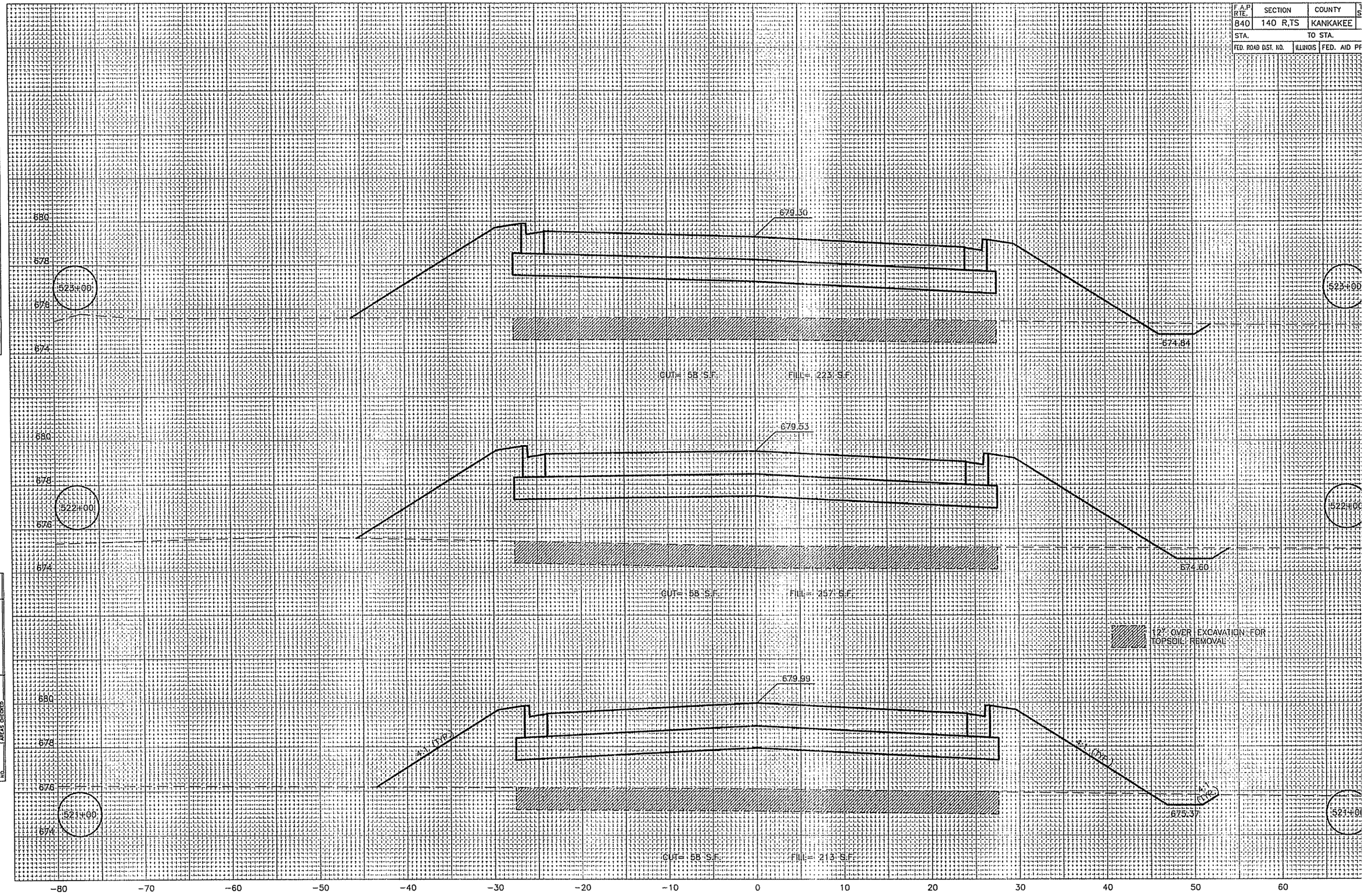
ELECTRICAL LOAD FOR INTERSECTION

STREET NAME	COMPONENT	NUMBER	WATTAGE EACH
IL ROUTE 50	RED	4	135
	YELLOW	4	135
	GREEN	4	135
	RED ARROW-LT.	4	135
	YELLOW ARROW-LT.	4	135
	GREEN ARROW-LT.	4	135
ST. GEORGE RD	RED	9	135
	YELLOW	9	135
	GREEN	9	135
	YELLOW ARROW-LT.	4	135
	GREEN ARROW-LT.	4	135
	YELLOW ARROW-LT.	2	90
	GREEN ARROW-LT.	2	90
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6
	VEHICLE DETECTORS	19	4
LIGHTING	CONTROLLER	1	6
	LUMINAIRE	5	310

AGENCY RESPONSIBLE FOR ENERGY CHARGES: STATE OF IL

TRAFFIC SIGNAL DETAILS
ST. GEORGE ROAD
F.A.P. ROUTE 840 – SECTION 140
KANKAKEE COUNTY

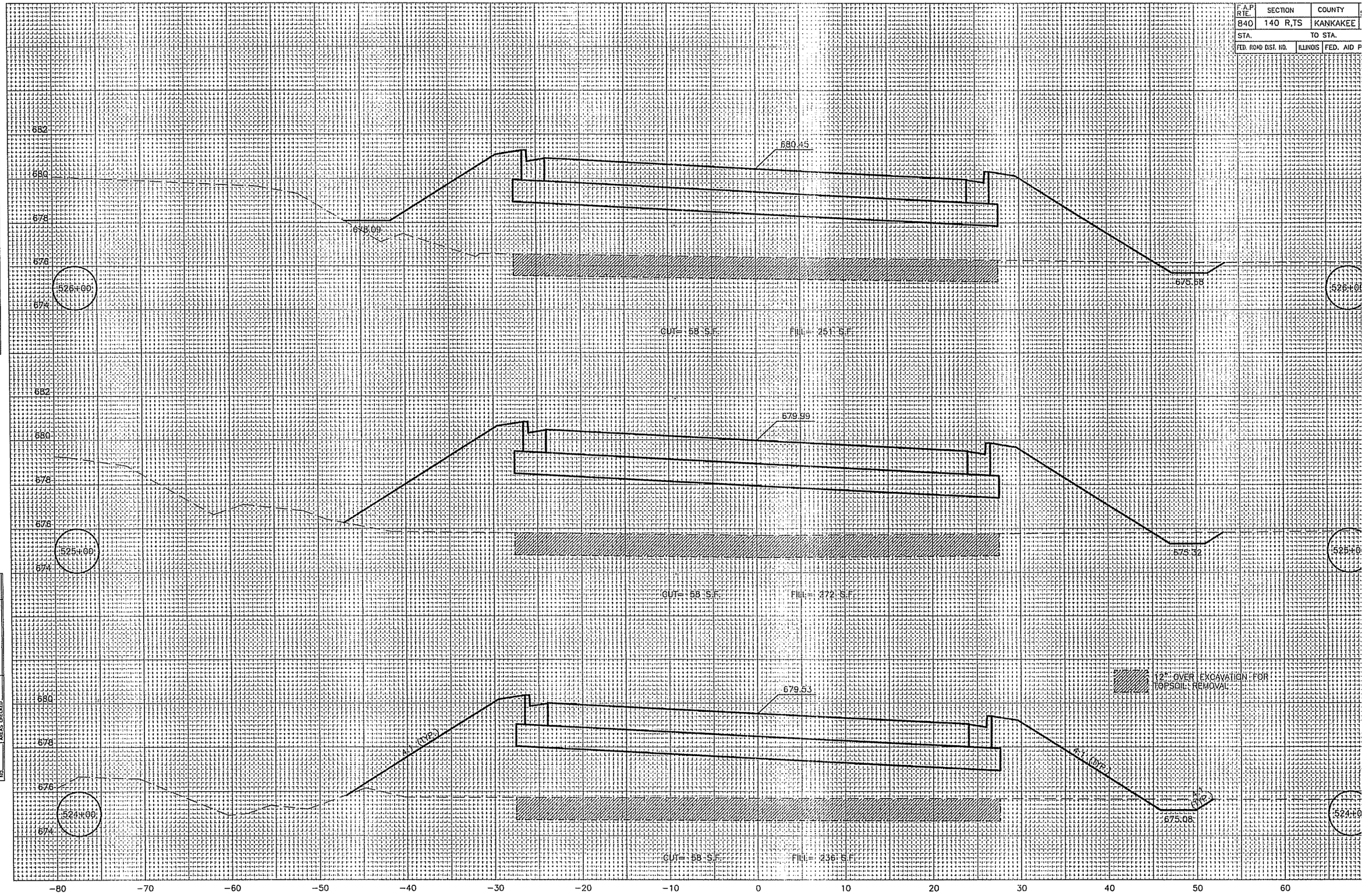
F.A.P. RTE.	SECTION	COUNTY	T S
840	140 R,TS	KANKAKEE	
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PR	



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

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

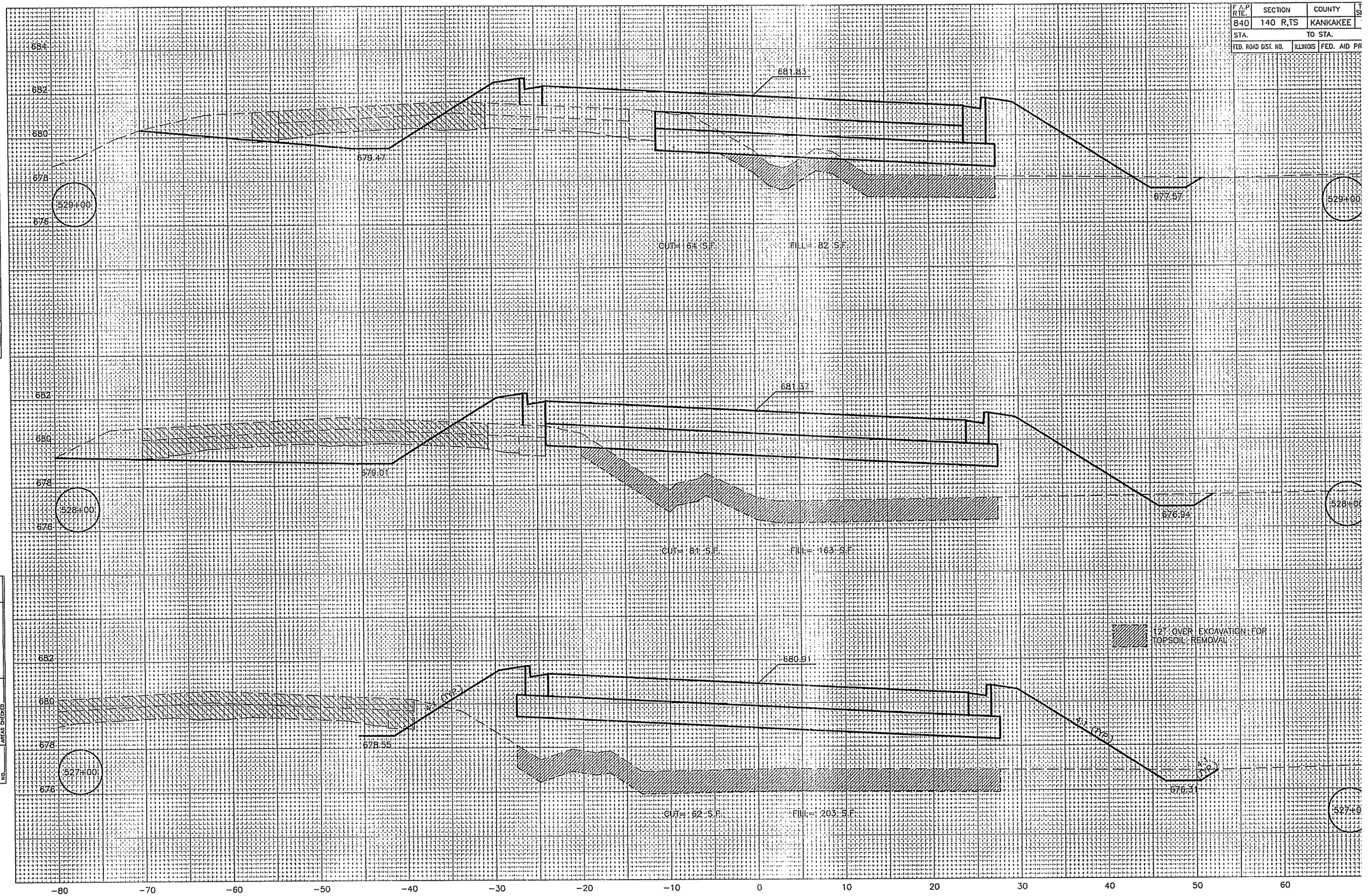
F.A.P. RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.	TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID P



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

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

F.A.P. RTE.	SECTION	COUNTY	T
840	140 R,TS	KANKAKEE	
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PR	

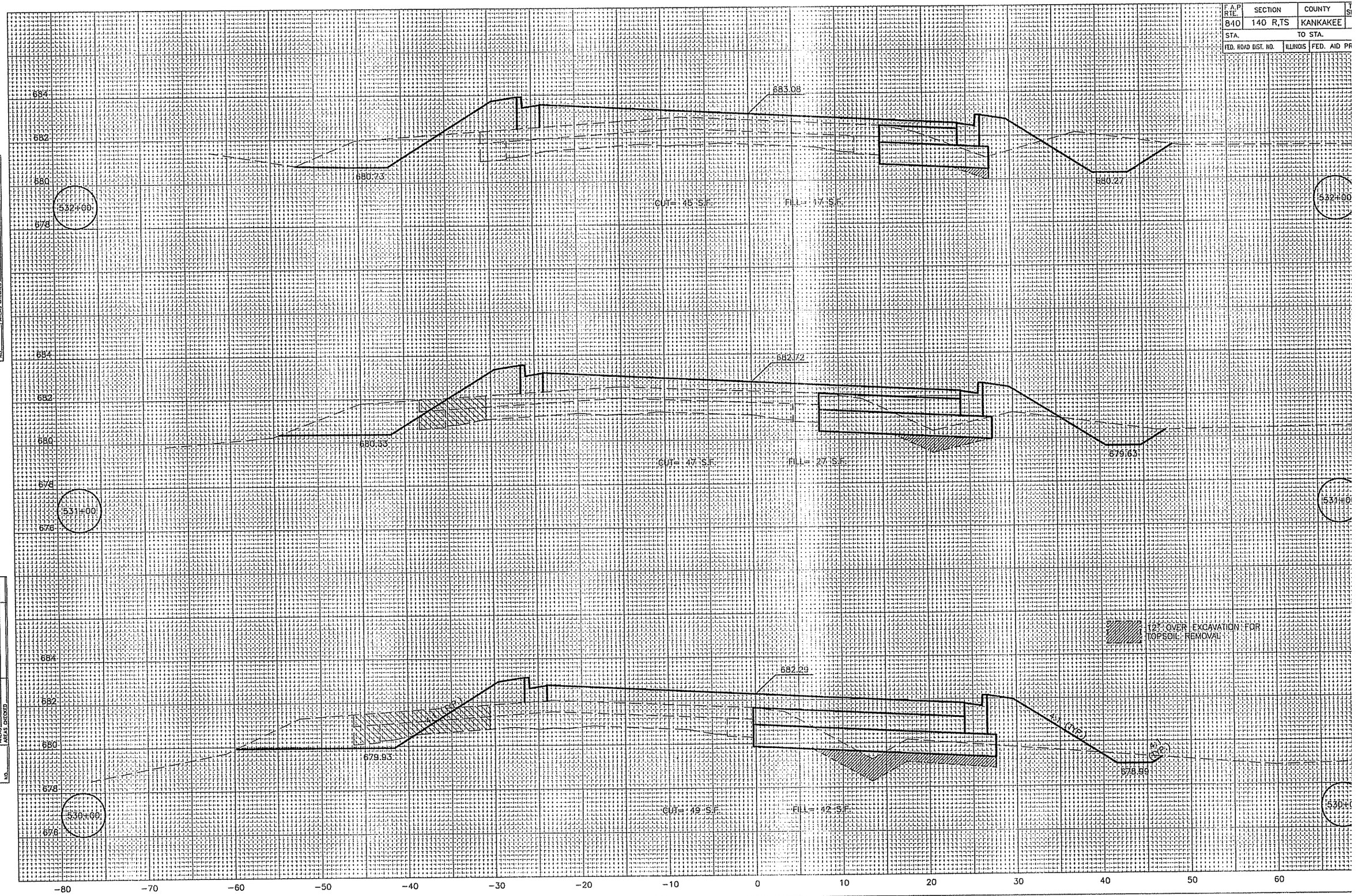


FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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

RELOCATED

F.A.P. RTE.	SECTION	COUNTY	T
840	140 R,TS	KANKAKEE	
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PR	

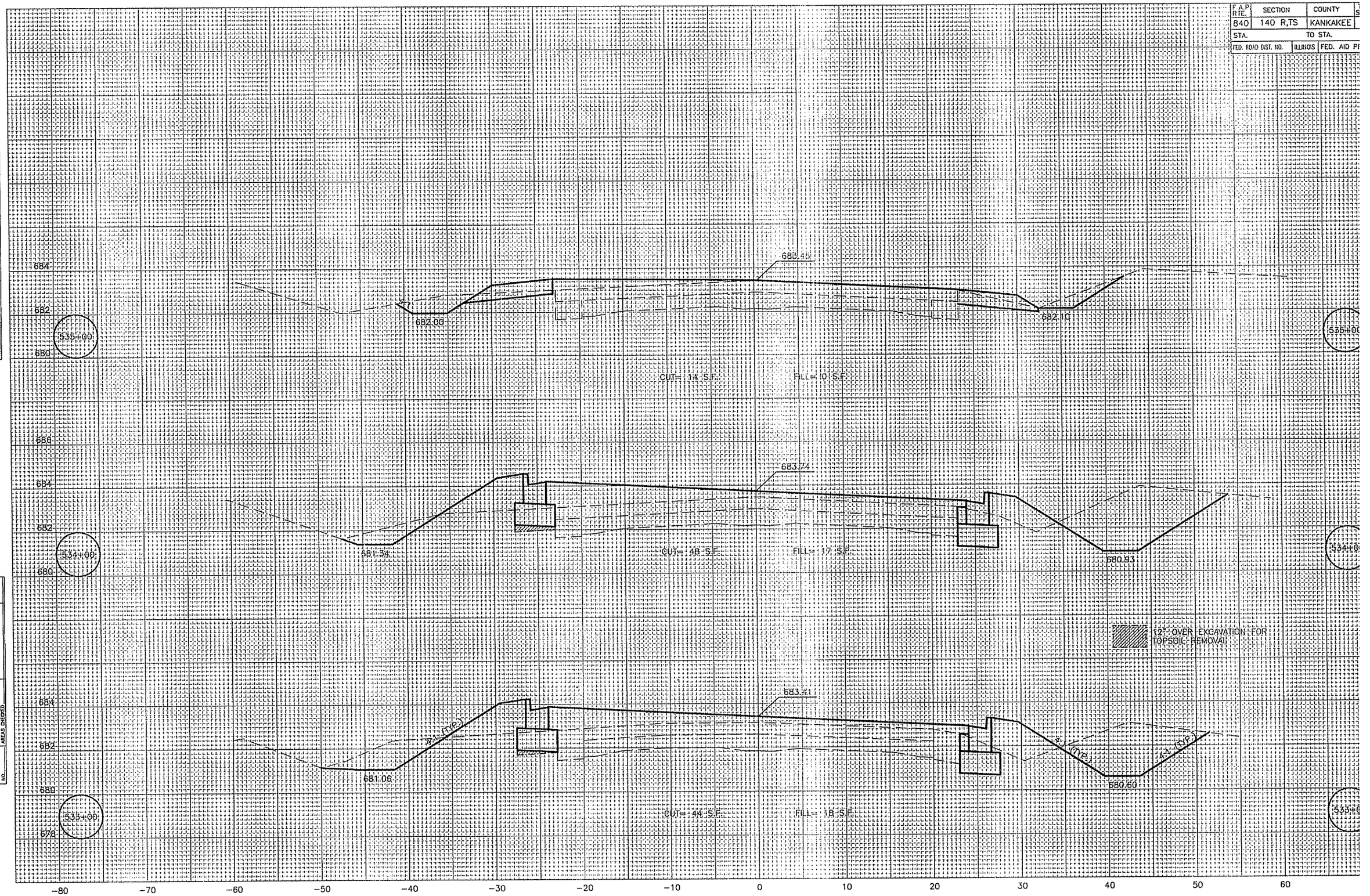


FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK TEMPLATE		
AREAS		
NO. AREAS CHECKED		

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

RELOCATED

F.A.P. RTE.	SECTION	COUNTY	T S
840	140 R,TS	KANKAKEE	
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PR	

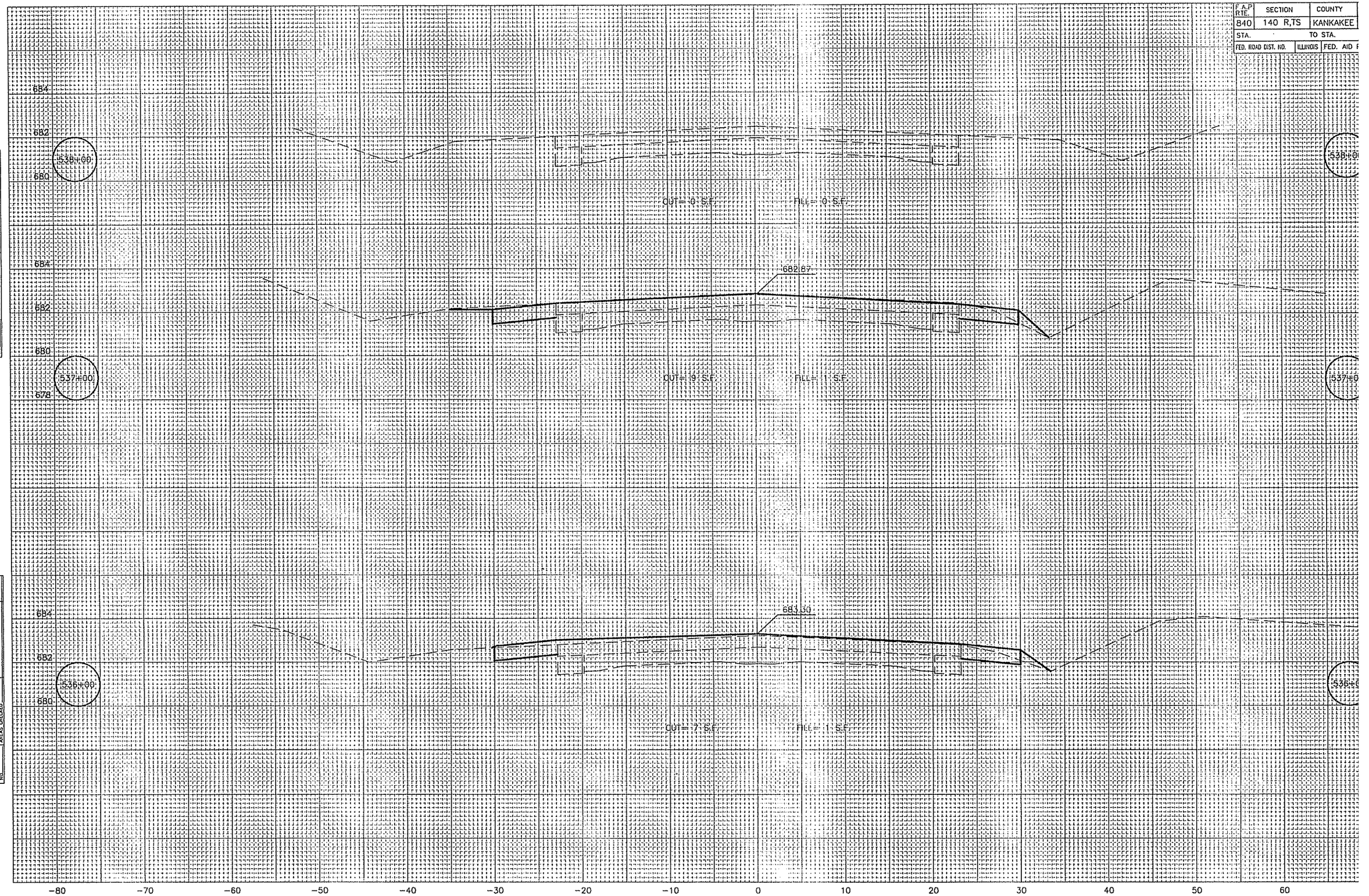


FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK TEMPLATE		
AREAS		
NO. AREAS CHECKED		

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

RELOCATED

F.A.P RTE.	SECTION	COUNTY
840	140 R,TS	KANKAKEE
STA.	TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID P



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

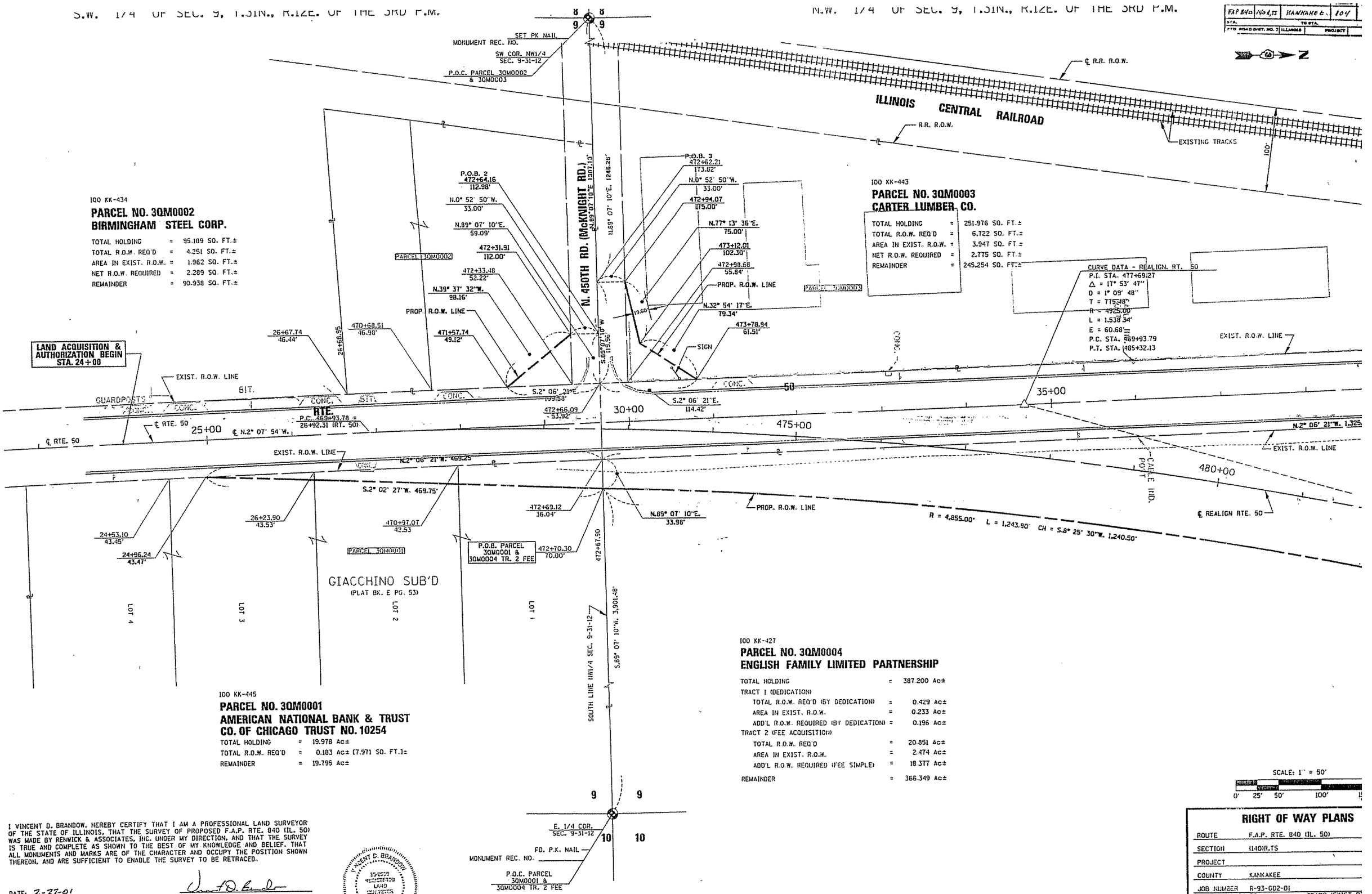
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

RELOCATED

S.W. 1/4 OF SEC. 9, T.31N., R.12E. OF THE 3RD P.M.

N.W. 1/4 OF SEC. 9, T.31N., R.12E. OF THE 3RD P.M.

FAP 840	140.8,TS	KANKAKEE	104
STA.		TO STA.	
F.A.P. ROAD DIST. NO. 7	ILLINOIS		PROJECT



I VINCENT D. BRANDOW, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF PROPOSED F.A.P. RTE. 840 (IL. 50) WAS MADE BY RENWICK & ASSOCIATES, INC. UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATE: 2-27-01

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2655

SURVEY BOOK NO. _____

VINCENT D. BRANDOW 35-2659 REGISTERED LAND SURVEYOR STATE OF ILLINOIS

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (N.A.D. 83).

RIGHT OF WAY PLANS

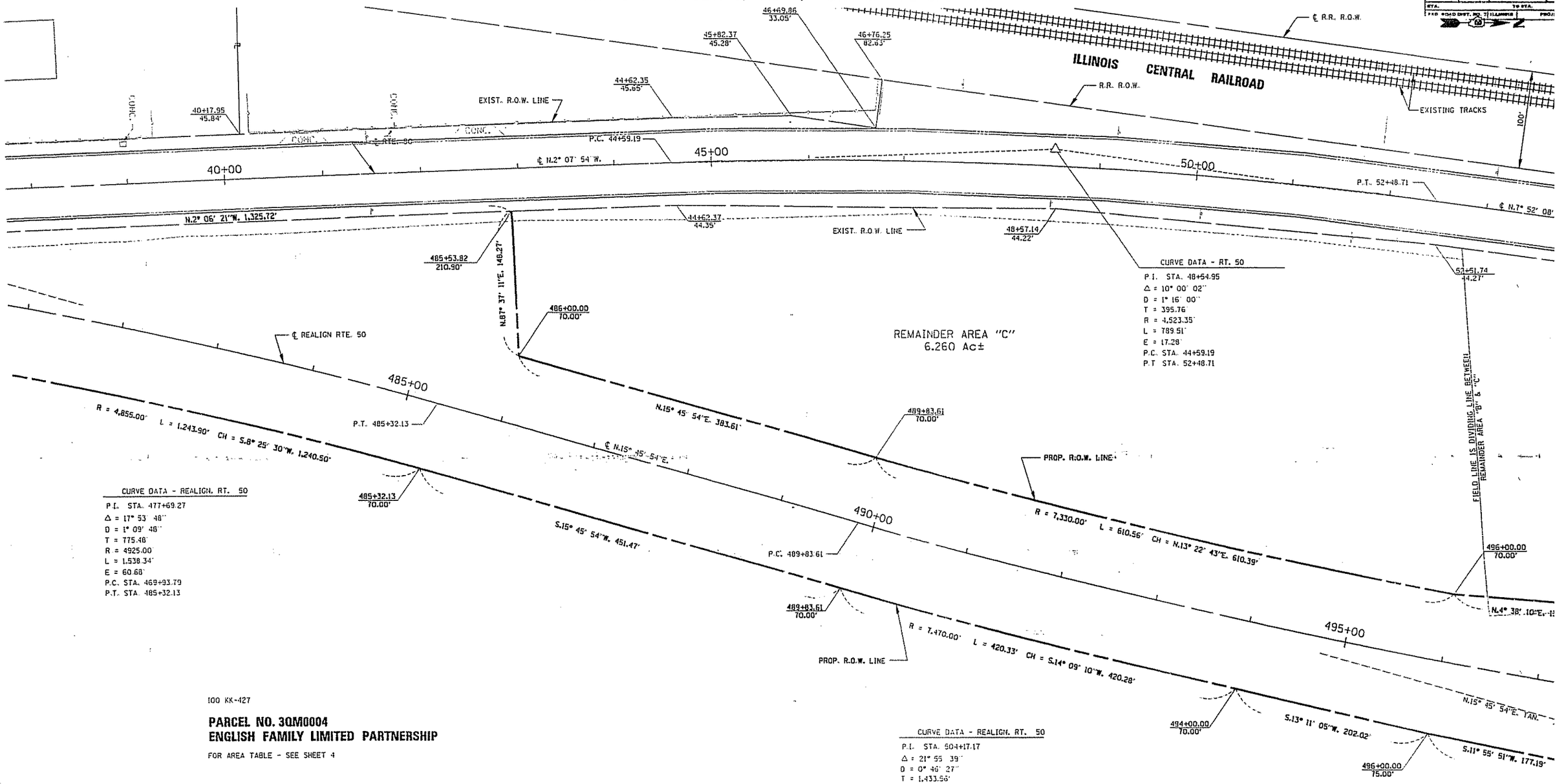
ROUTE	F.A.P. RTE. 840 (IL. 50)
SECTION	(140)R,TS
PROJECT	
COUNTY	KANKAKEE
JOB NUMBER	R-93-002-01
STATION	24+00 467+00 TO 38+00 (EXIST R) 481+00 (REALIGN
SHEET	2 OF 8 SCALE

REVISED 03/05/01 MJTC

N.W. 1/4 OF SEC. 9, T.31N., R.12E. OF THE 3RD P.M.

F.A.P. NO.	R.T.S.	KANKAKEE
STA.	TO STA.	

FED. ROAD DIST. NO. 7 ILLINOIS



100 KK-427

PARCEL NO. 30M0004
ENGLISH FAMILY LIMITED PARTNERSHIP

FOR AREA TABLE - SEE SHEET 4

CURVE DATA - REALIGN. RT. 50
P.I. STA. 504+17.17
Δ = 21° 55' 39"
D = 0° 46' 27"
T = 1,433.56'
R = 7,400.00'
L = 2,832.04'
E = 137.50'
P.C. STA. 489+83.61
P.T. STA. 518+15.65

SCALE: 1" = 50'
0' 25' 50' 100'

I VINCENT D. BRANDOW, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF PROPOSED F.A.P. RTE. 840 (IL. 50) WAS MADE BY RENWICK & ASSOCIATES, INC. UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATE: 2-27-01

ILLINOIS PROFESSIONAL LAND SURVEYOR
NO. 2655

VINCENT D. BRANDOW 35-2655 REGISTERED LAND SURVEYOR OF STATE OF ILLINOIS

SURVEY BOOK NO. _____

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (N.A.D. 83)

RIGHT OF WAY PLAN

ROUTE	F.A.P. RTE. 840 (IL. 50)
SECTION	(140)R,TS
PROJECT	
COUNTY	KANKAKEE
JOB NUMBER	R-93-002-01
STATION 481+00	TO 497+00
SHEET 3	OF 8 SCA

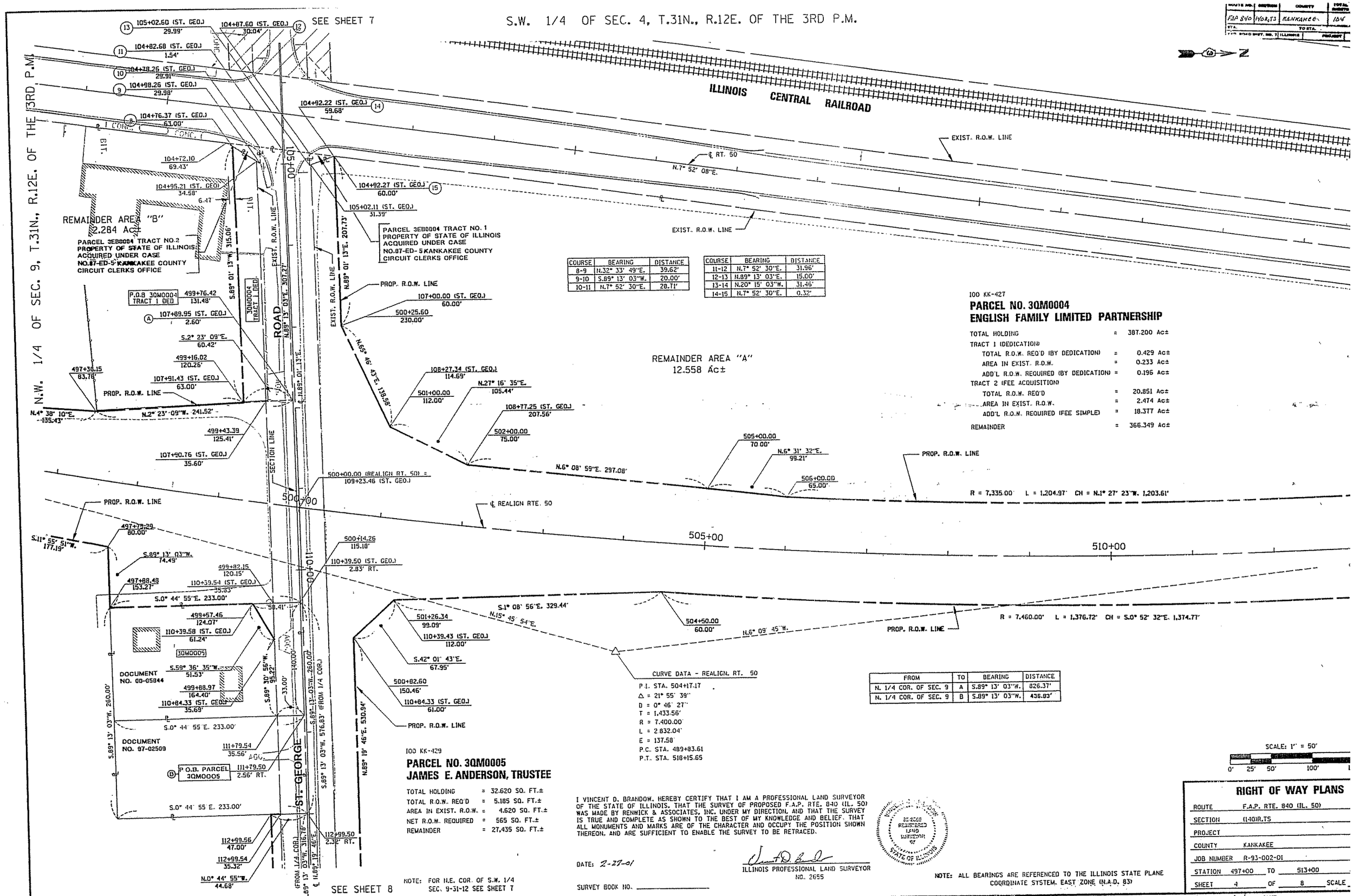
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
FAP 840	(140)R,TS	KANKAKEE	104

STA. TO STA.

FAP 840 SHT. NO. 7 ILLINOIS PROJECT

S.W. 1/4 OF SEC. 4, T.31N., R.12E. OF THE 3RD P.M.

N.W. 1/4 OF SEC. 9, T.31N., R.12E. OF THE 3RD P.M.



COURSE	BEARING	DISTANCE
8-9	N.32° 33' 49"E.	39.62'
9-10	S.89° 13' 03"W.	20.00'
10-11	N.7° 52' 30"E.	28.71'

COURSE	BEARING	DISTANCE
11-12	N.7° 52' 30"E.	31.96'
12-13	N.89° 13' 03"E.	15.00'
13-14	N.20° 15' 03"W.	31.46'
14-15	N.7° 52' 30"E.	0.32'

FROM	TO	BEARING	DISTANCE
N. 1/4 COR. OF SEC. 9	A	S.89° 13' 03"W.	826.37'
N. 1/4 COR. OF SEC. 9	B	S.89° 13' 03"W.	436.03'

100 KK-427

PARCEL NO. 3QM0004
ENGLISH FAMILY LIMITED PARTNERSHIP

TOTAL HOLDING	=	387.200 Ac±
TRACT 1 (DEDICATION)		
TOTAL R.O.W. REQ'D (BY DEDICATION)	=	0.429 Ac±
AREA IN EXIST. R.O.W.	=	0.233 Ac±
ADD'L R.O.W. REQUIRED (BY DEDICATION)	=	0.196 Ac±
TRACT 2 (FEE ACQUISITION)		
TOTAL R.O.W. REQ'D	=	20.851 Ac±
AREA IN EXIST. R.O.W.	=	2.474 Ac±
ADD'L R.O.W. REQUIRED (FEE SIMPLE)	=	18.377 Ac±
REMAINDER	=	366.349 Ac±

100 KK-429

PARCEL NO. 3QM0005
JAMES E. ANDERSON, TRUSTEE

TOTAL HOLDING	=	32.620 SQ. FT.±
TOTAL R.O.W. REQ'D	=	5.185 SQ. FT.±
AREA IN EXIST. R.O.W.	=	4.620 SQ. FT.±
NET R.O.W. REQUIRED	=	565 SQ. FT.±
REMAINDER	=	27,435 SQ. FT.±

NOTE: FOR N.E. COR. OF S.W. 1/4 SEC. 9-31-12 SEE SHEET 7

I VINCENT D. BRANDOW, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS. THAT THE SURVEY OF PROPOSED F.A.P. RTE. 840 (IL. 50) WAS MADE BY RENWICK & ASSOCIATES, INC. UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATE: 2-27-01

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2655

SURVEY BOOK NO. _____

VINCENT D. BRANDOW REGISTERED LAND SURVEYOR 97 STATE OF ILLINOIS

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (N.A.D. 83)

SCALE: 1" = 50'

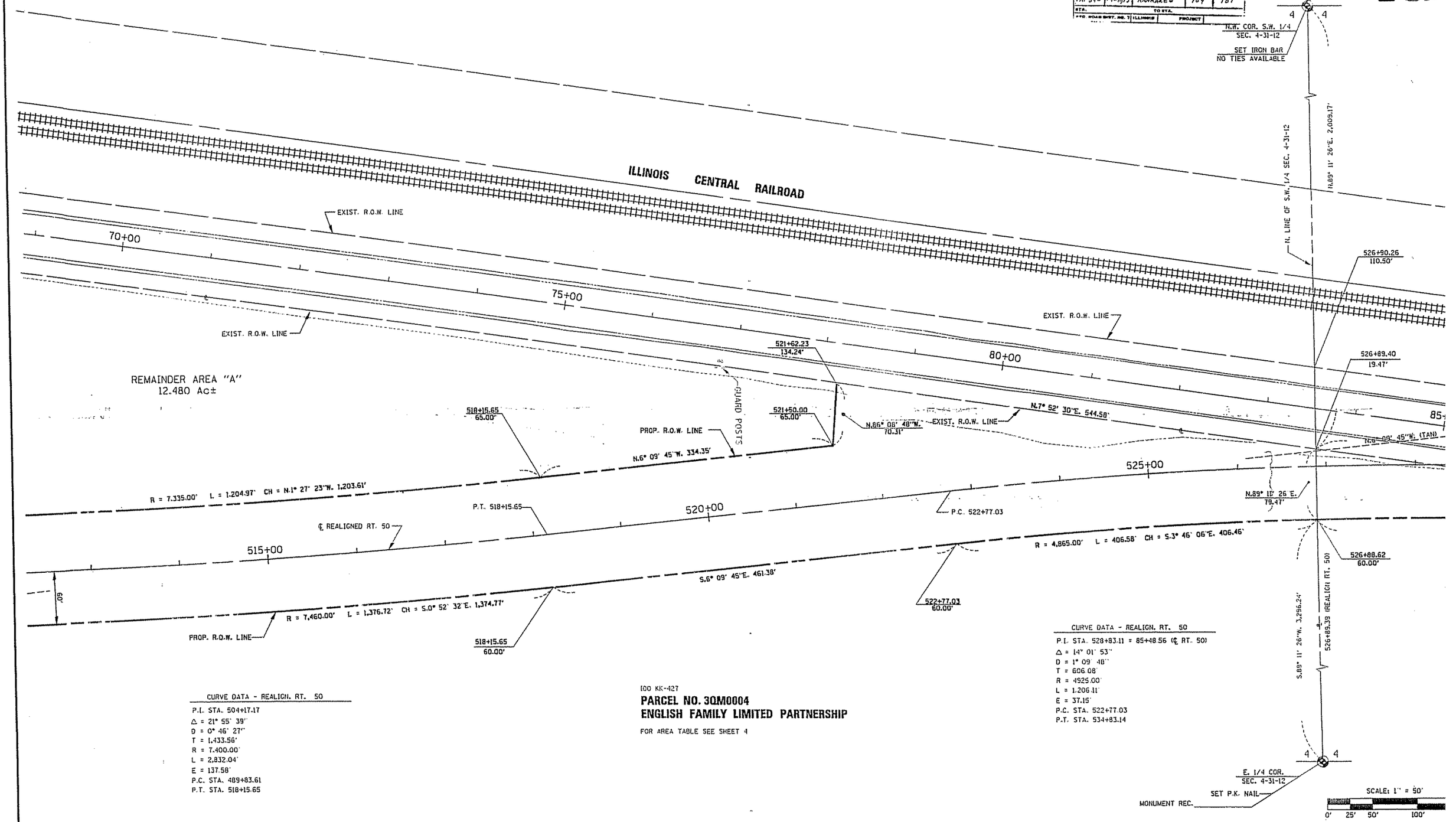
0' 25' 50' 100'

RIGHT OF WAY PLANS

ROUTE	F.A.P. RTE. 840 (IL. 50)
SECTION	(140)R,TS
PROJECT	
COUNTY	KANKAKEE
JOB NUMBER	R-93-002-01
STATION 497+00	TO 513+00
SHEET 4	OF 8 SCALE

S.W. 1/4 OF SEC. 4, T.31N., R.12E. OF THE 3RD P.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 840	(140)R,TS	KANKAKEE	107	101
STA.	TO STA.			
FED. ROAD DIST. NO. 7 ILLINOIS		PROJECT		



CURVE DATA - REALIGN. RT. 50

P.I. STA. 504+17.17
Δ = 21° 55' 39"
D = 0° 46' 27"
T = 1,433.56'
R = 7,400.00'
L = 2,832.04'
E = 137.58'
P.C. STA. 489+83.61
P.T. STA. 518+15.65

100 KK-427

PARCEL NO. 3QM0004
ENGLISH FAMILY LIMITED PARTNERSHIP

FOR AREA TABLE SEE SHEET 4

CURVE DATA - REALIGN. RT. 50

P.I. STA. 528+83.11 = 85+48.56 (℄ RT. 50)
Δ = 14° 01' 53"
D = 1° 09' 48"
T = 606.08'
R = 4925.00'
L = 1,206.11'
E = 37.15'
P.C. STA. 522+77.03
P.T. STA. 534+83.14

I VINCENT D. BRANDOW, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF PROPOSED F.A.P. RTE. 840 (IL. 50) WAS MADE BY RENWICK & ASSOCIATES, INC. UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATE: 2-27-01

ILLINOIS PROFESSIONAL LAND SURVEYOR
NO. 2655

SURVEY BOOK NO. _____

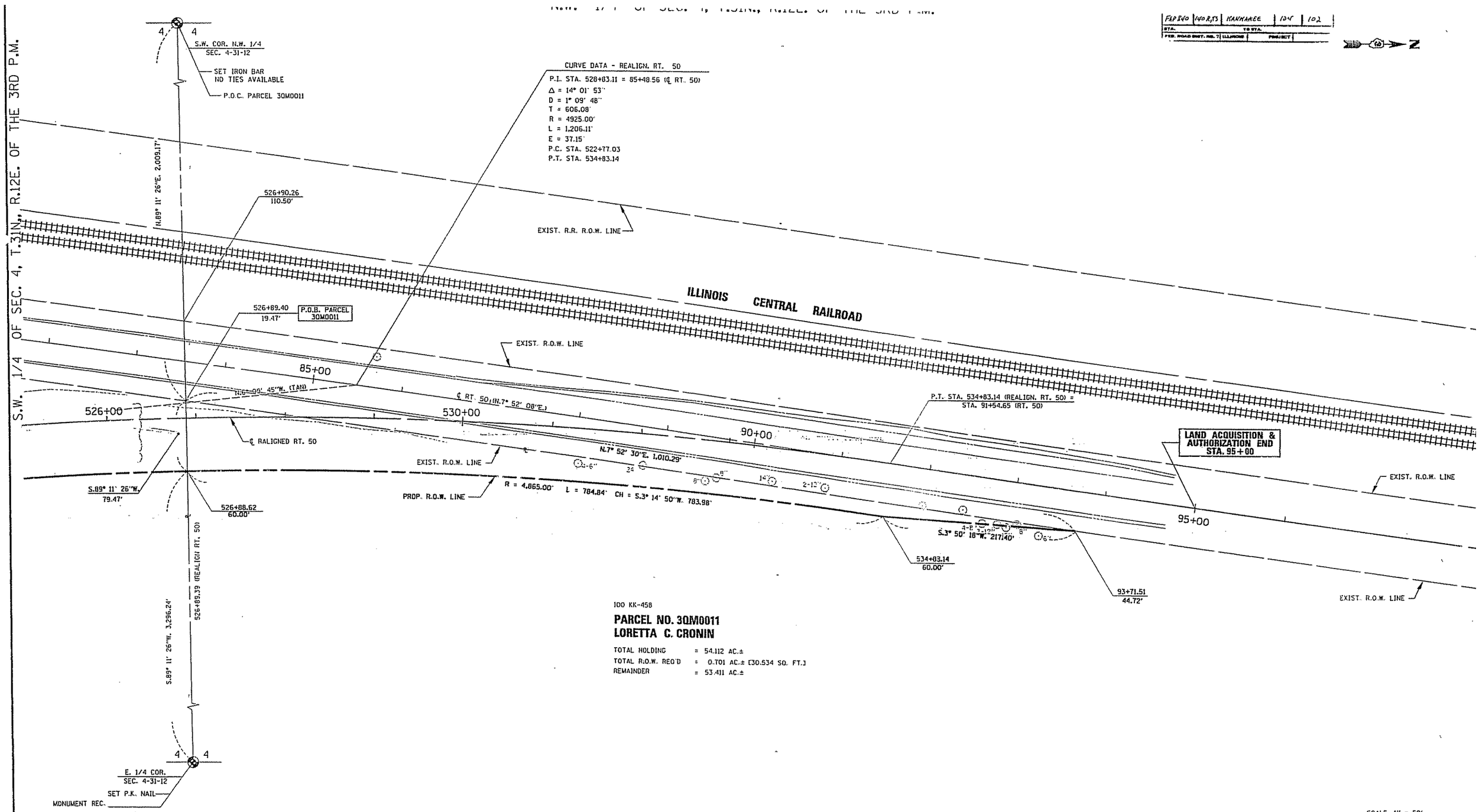
VINCENT D. BRANDOW
2655
REGISTERED
LAND
SURVEYOR
OF
STATE OF ILLINOIS

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (N.A.D. 83)

RIGHT OF WAY PLAN

ROUTE	F.A.P. RTE. 840 (IL. 50)
SECTION	(140)R,TS
PROJECT	
COUNTY	KANKAKEE
JOB NUMBER	R-93-002-01
STATION	513+00 TO 528+00
SHEET	5 OF 8 SCA

FAP 840	140 R,TS	KANKAKEE	104	102
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



100 KK-458

PARCEL NO. 3QM0011
LORETTA C. CRONIN

TOTAL HOLDING = 54.112 AC.±
TOTAL R.O.W. REQ'D = 0.701 AC.± [30,534 SQ. FT.]
REMAINDER = 53.411 AC.±

SCALE: 1" = 50'

0' 25' 50' 100' 150'

I VINCENT D. BRANDOW, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF PROPOSED F.A.P. RTE. 840 (IL. 50) WAS MADE BY RENNICK & ASSOCIATES, INC. UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATE: 2-27-01

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2655

SURVEY BOOK NO. _____

VINCENT D. BRANDOW — BY DESIGN REGISTERED LAND SURVEYOR OF STATE OF ILLINOIS

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (N.A.D. 83)

RIGHT OF WAY PLANS

ROUTE	F.A.P. RTE. 840 (IL. 50)
SECTION	(140)R,TS
PROJECT	
COUNTY	KANKAKEE
JOB NUMBER	R-93-002-01
STATION	526+00 TO 95+00 / 538+00
SHEET	6 OF 8 SCALE 1" =