ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
*	* *	GRUNDY	-	1
F.H.W.A. REG. 4	ILLINOIS	PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

SCALE IN FEET

F.A.P. 100(ILL.47) & FAU-5952

SECTION [111R,(111CS)R-1 (111CS)R-2]RS,111RS-1 & (G&Q)R-RS

GRUNDY COUNTY

C-93-027-89

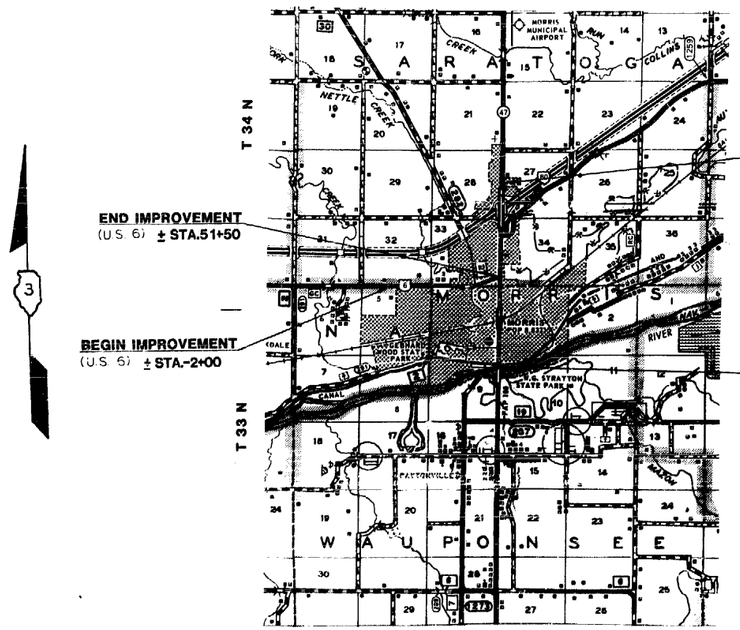
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LOCATION MAP
3-6	TYPICAL SECTIONS
7-9	SUMMARY OF QUANTITIES
10-11	QUANTITY TABLES AND GENERAL NOTES
12-33	PLAN VIEWS ROUTE 47
34	OVERALL PLAN VIEW OF RTS. 6 & 47 NORTH
35	PLAN VIEWS ROUTE 6 (EAST)
36-43	PLAN VIEWS ROUTE 6 (WEST)
44-66	THERMOPLASTIC DETAILS ROUTE 47
67	THERMOPLASTIC DETAILS ROUTE 6 (EAST)
68-70	THERMOPLASTIC DETAILS ROUTE 6 (WEST)
71-81	TRAFFIC SIGNAL DETAILS
82-90	TRAFFIC STAGING DETAILS
91	SPECIAL DETAILS
92	CROSS SECTIONS AT RIGHT TURN LANE
93	TRAFFIC CONTROL AND PROTECTION U-1
94	TRAFFIC CONTROL AND PROTECTION U-2
95	TRAFFIC CONTROL AND PROTECTION U-4
96	TRAFFIC CONTROL AND PROTECTION U-5
97	BRIDGE RAIL DETAILS

STANDARDS

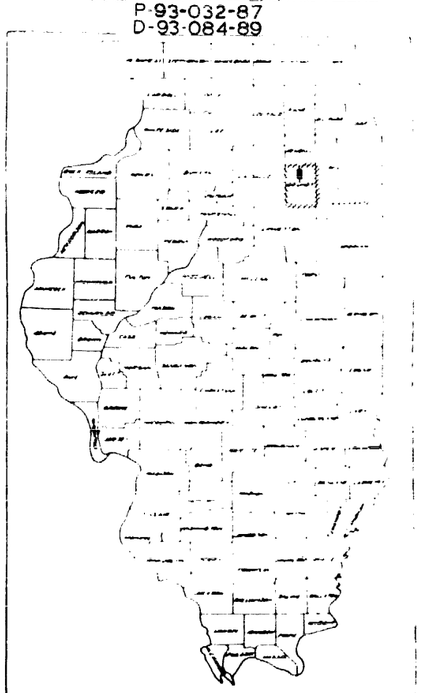
1685-4	SYMBOLS AND ABBREVIATIONS
1744-4	RIGHT-OF-WAY MARKERS
2150-9	CONCRETE CURB & COMBINATION CURB & GUTTER
2135	PERMANENT SURVEY MARKERS
2223-4	METAL END SECTION FOR PIPE CULVERTS
2262-4	REINFORCED CONCRETE ELBOW AND PRECAST REINFORCED CONCRETE FLARED END SECTION
2298-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2299-10	DESIGN OF TRAFFIC CONTROL DEVICES
2300-3	FLAGMAN TRAFFIC CONTROL SIGN
2302-5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES TWO-LANE, TWO-WAY, RURAL, DAY OR NIGHT
2306-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES RURAL, MOVING OPERATION, DAY
2307-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES SHORT-TIME OPERATION, DAY OR NIGHT
2319-4	SIGN PANEL MOUNTING DETAILS
2323-10	PAVEMENT JOINTS
2368	DETAILS OF CONCRETE AND MORTAR HANDHOLES
2370-1	DETAILS OF DETECTOR INSTALLATIONS
2371-1	DETAILS OF MOUNTING TRAFFIC SIGNALS
2374-1	DETAILS OF STEEL MAST ARM ASSEMBLY AND POLE
2378-2	DETAILS OF CONCRETE FOUNDATIONS
2380-2	MAST ARM MOUNTED STREET NAME SIGNS
2391	DETAILS OF COMBINATION STEEL MAST ARM ASSEMBLY AND POLE
2393-1	STANDARD SEQUENCE FOR TRAFFIC ACTUATED CONTROLLERS
2394	TYPICAL LAYOUT FOR DETECTOR LOOPS
2536	TYPICAL PAVEMENT MARKINGS
2314-5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2419	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2428	JOINTED P.C.C. PAVEMENT
2113-2	NAME PLATE FOR BRIDGES
2230-15	STEEL PLATE BEAM GUARDRAIL
2336-4	TRAFFIC BARRIER TERMINAL TYPE 1 AND 1A
2337-2	TRAFFIC BARRIER TERMINAL TYPE 2
2340-4	TRAFFIC BARRIER TERMINAL TYPE 5 AND 5A
2399-1	STEEL RAIL FOR BRIDGES

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



SEE LOCATION MAP SHEET NO 2

SCALE: 0 1/2 1 2 3 MILES



NORTH-SOUTH

1987 ADT. SEE NEXT SHEET

P.C.-93% SU-3% MU-4%

EAST-WEST

1987 ADT. 10,600 MAJOR HIGHWAY

P.C.-96% SU-3% MU-1%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Nov 30 19 88 — DISTRICT ENGINEER
RECOMMENDED 12-29 19 88 — BUREAU OF PLANS AND CONTRACTS
PROVED 12-29 19 88 — CHIEF ENGINEER
APPROVED 12-29 19 88 — SECRETARY OF DESIGN

ILL 47 GROSS LENGTH = 13905.73 FT = 2.634 MILES
ILL 47 NET LENGTH = 13905.73 FT = 2.634 MILES

US 6 GROSS LENGTH = 5350.00 FT = 1.013 MILES
US 6 NET LENGTH = 5350.00 FT = 1.013 MILES

TOTAL GROSS LENGTH US 6 & ILL 47 = 19255.73 FT = 3.647 MILES
TOTAL NET LENGTH US 6 & ILL 47 = 19255.73 FT = 3.647 MILES

PROJECT ENGINEER : GREG MOUNTS
SQUAD CHIEF : BRAD CRESTO
TOWNSHIPS : ~~ERIENNA~~ & SARATOGA
J.U.L.I.E. NO. 800-892-0123

CONTRACT NO. 86026

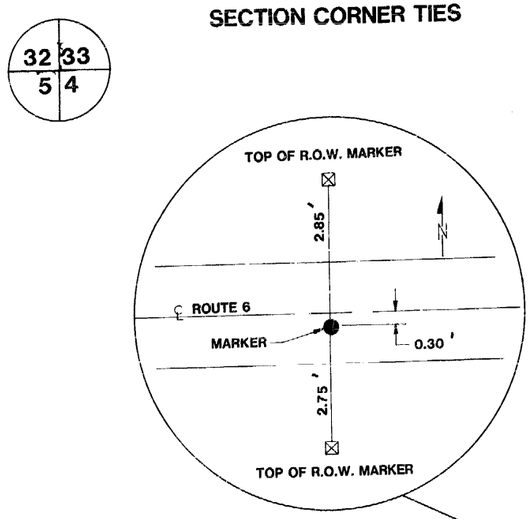
GRUNDY COUNTY SECTION [111R,(111CS)R-1,(111CS)R-2]RS,111RS-1 G&QR-RS ROUTES FAP 100(ILL 47) & SBL7(US6)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
*	*	*	*	2
F.H.W.A. REG. 4	ILLINOIS	PROJECT		

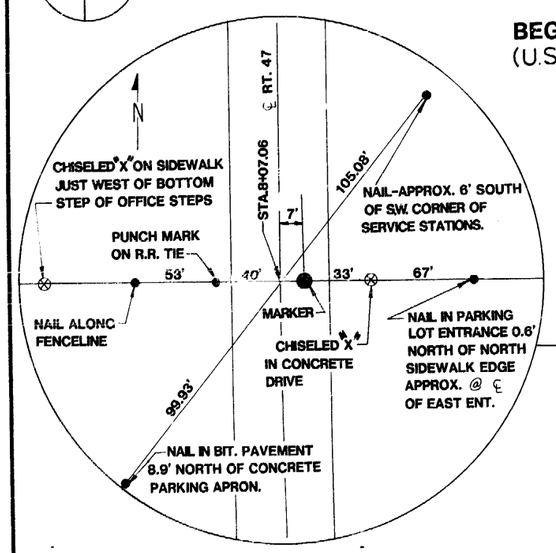
* F.A.P. 100(ILL.47) & S.B.L 7(ILS.6)

** 11R,(111CS)R-1(111CS)R-2RS, 111RS-1 G&QR-RS

SECTION CORNER TIES



S.W.COR.SEC.33,T33N-R7E-3RDPM



N.W.COR.SEC.10,T33N-R7E-3RD.PM.

END IMPROVEMENT
(ILL. 47) STA 190+00

STATION EQUATION
STA 114+05.73 (BK)= STA 163+00 (AH)

END IMPROVEMENT
(U.S. 6)

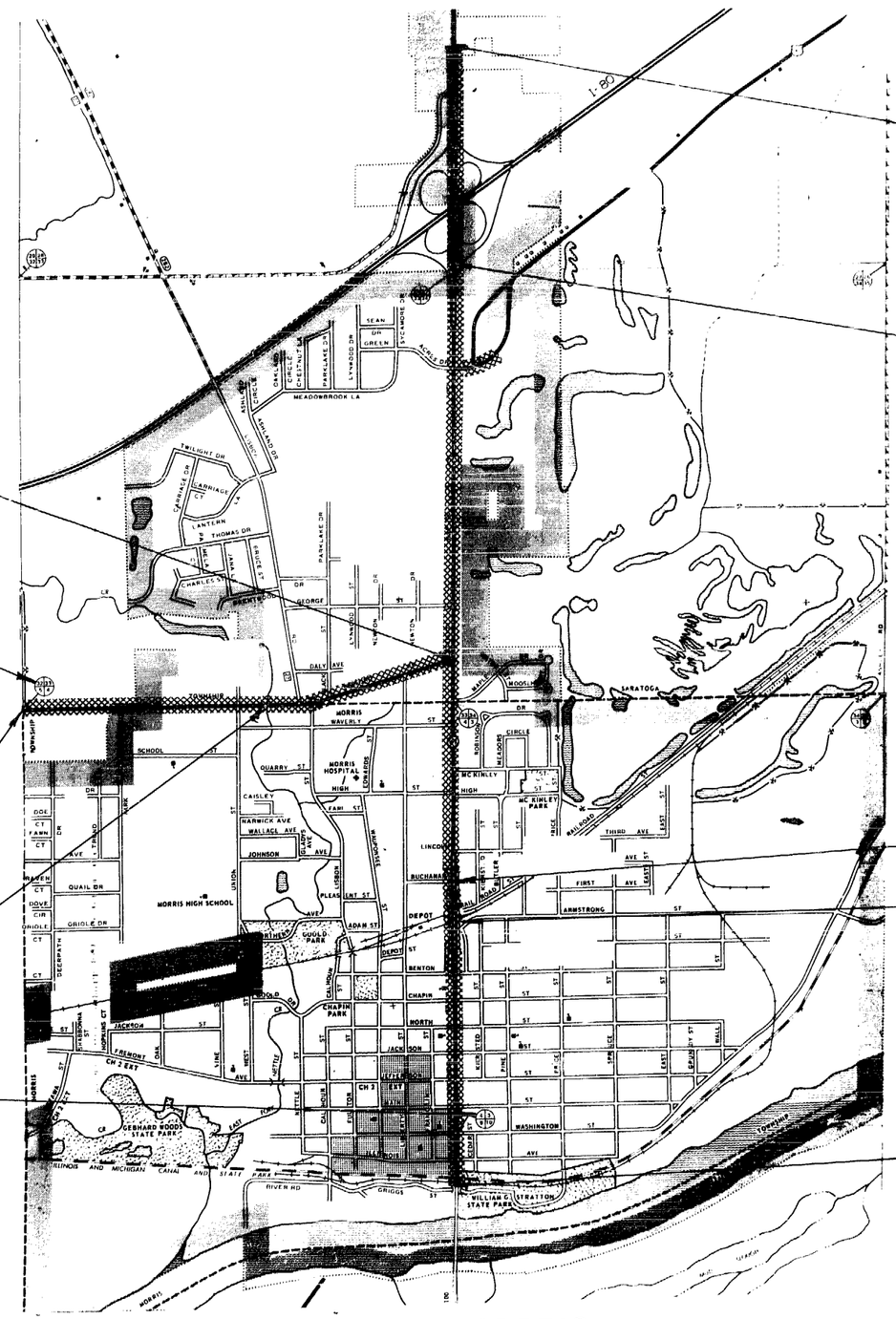
BEGIN IMPROVEMENT
(U.S. 6)

STRUCTURE # 032-0081

STRUCTURE # 032-0087

STRUCTURE # 032-0086

BEGIN IMPROVEMENT
(ILL. 47) STA 2+00



12,100
I-80
4500
US 6
22,900
2,650
8,100
1,300
UNION ST
LIBERTY ST
17,600

1987 ADT INFORMATION

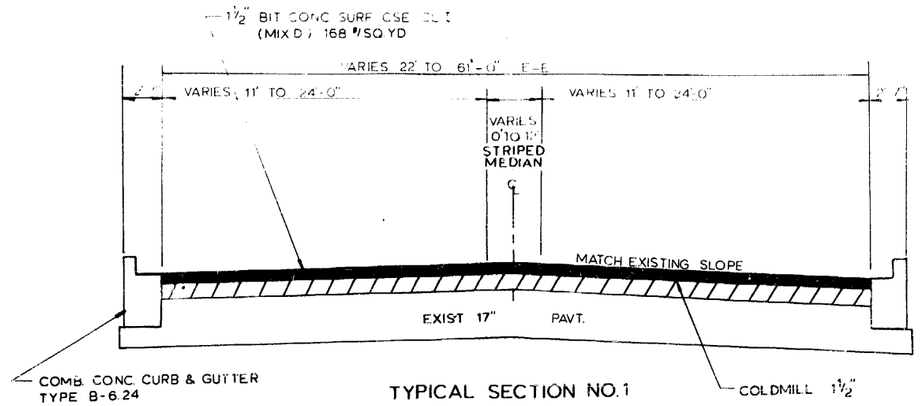
CITY OF MORRIS

IMPROVEMENT LOCATION MAP

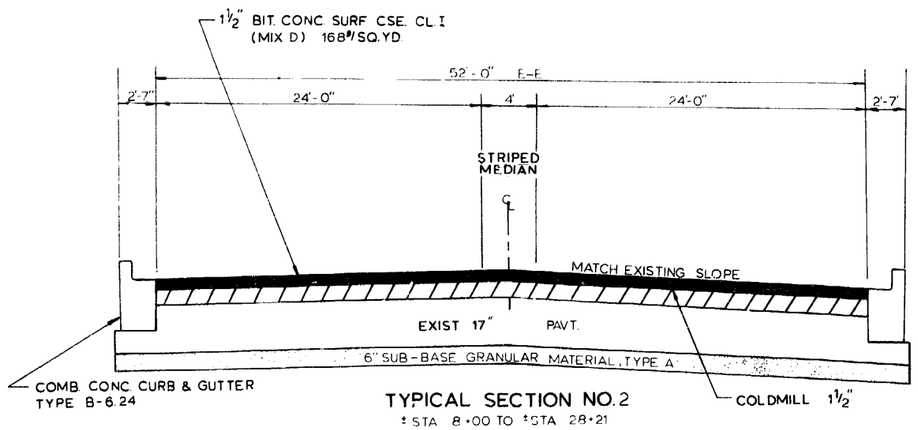
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
*	* 7	GRUNDY	97	3
F.H.W.A. REG. 4	ILLINOIS	PROJECT		

* F.A.P. 100(ILL.47) & S.B.L 7(U.S.6)

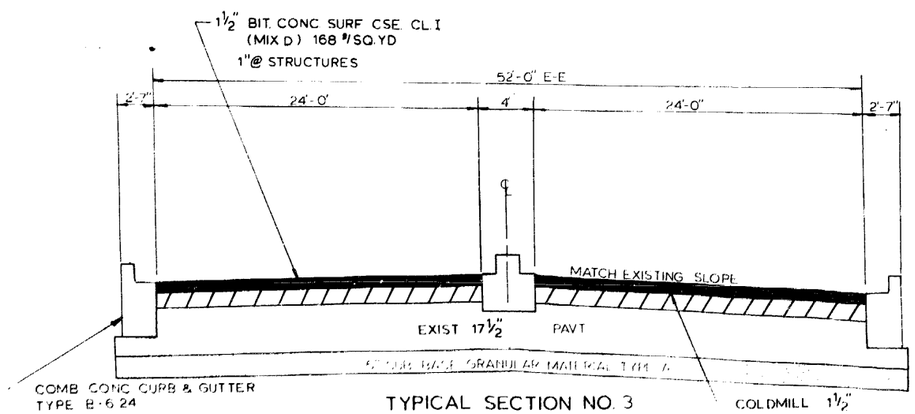
** 111R,(111CS)R-1(111CS)R-2 RS, 111RS-1 G&QR-RS



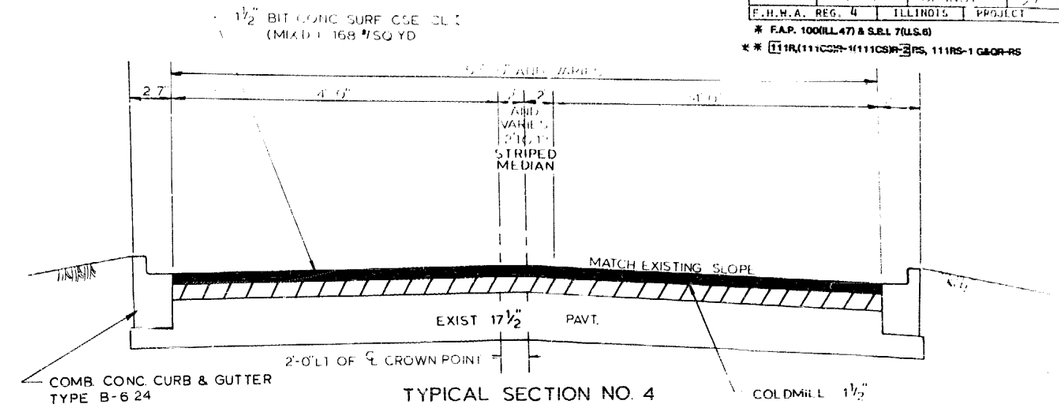
TYPICAL SECTION NO. 1
± STA 2+00 TO ± STA 8+00



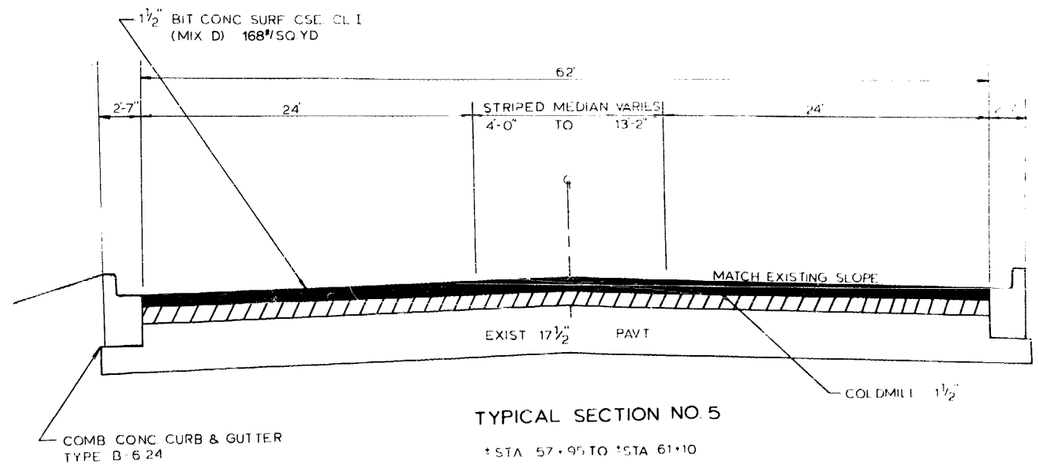
TYPICAL SECTION NO. 2
± STA 8+00 TO ± STA 28+21



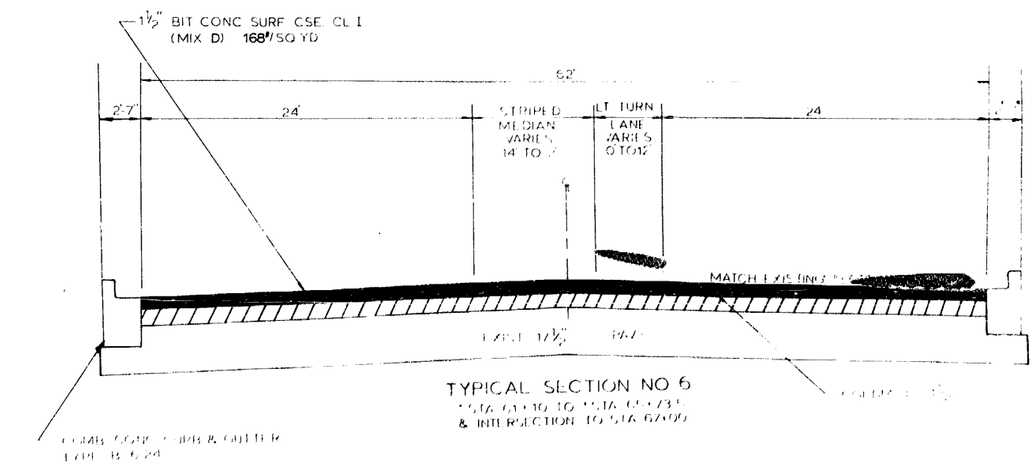
TYPICAL SECTION NO. 3
± STA 28+21 TO ± STA 42+90



TYPICAL SECTION NO. 4
± STA 42+90 TO ± STA 57+95



TYPICAL SECTION NO. 5
± STA 57+95 TO ± STA 61+10



TYPICAL SECTION NO. 6
± STA 61+10 TO ± STA 64+73.5
& INTERSECTION TO STA 67+00

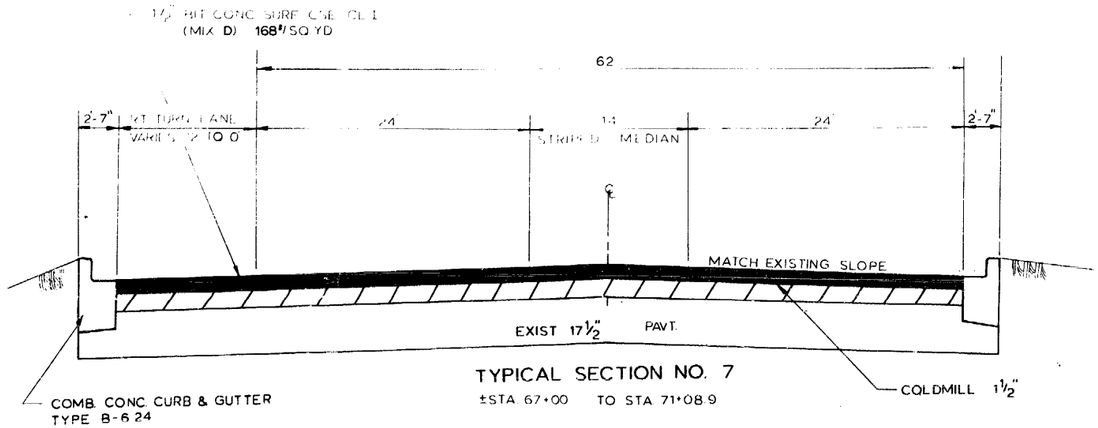
REV.

ILL. 47 PROPOSED TYPICAL SECTIONS

ROUTE	SECTION	COUNTY	TOTAL SHEETS
F.A.H.W.A. REG. 4	ILLINOIS	PROJECT	37

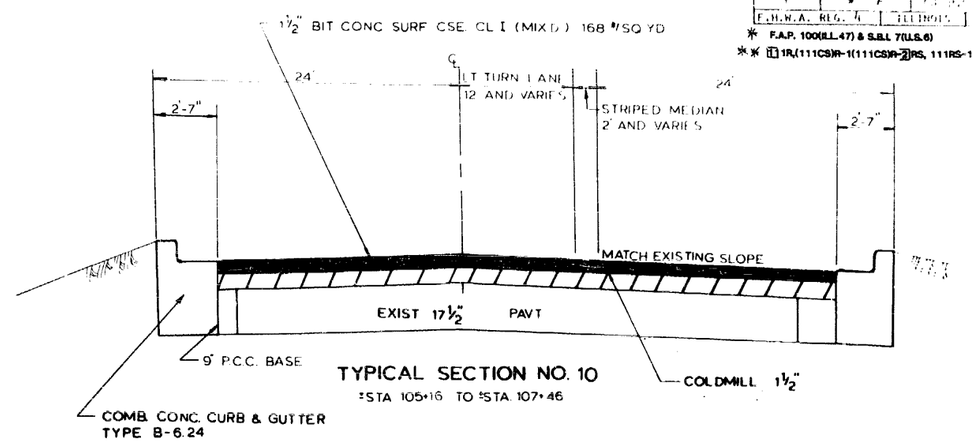
* F.A.P. 100(ILL.47) & S.B.L. 7(ILS.6)

** 1R,(111CS)R-1(111CS)R-2)RS, 111RS-1 GAQR-RS



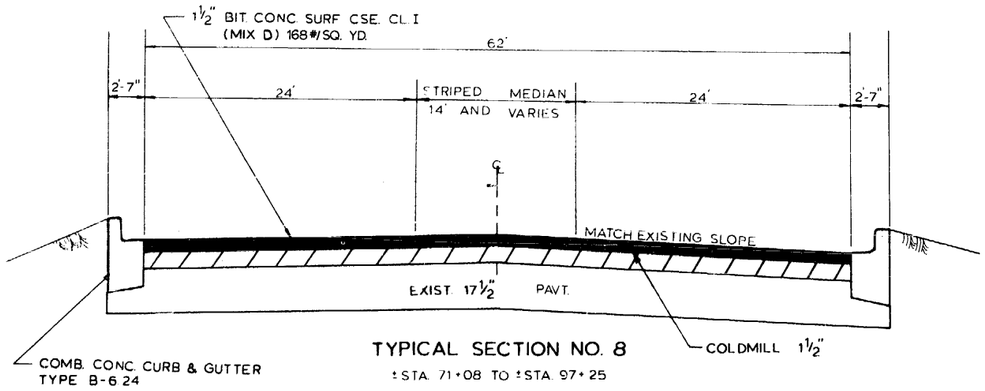
TYPICAL SECTION NO. 7

±STA 67+00 TO STA 71+08.9



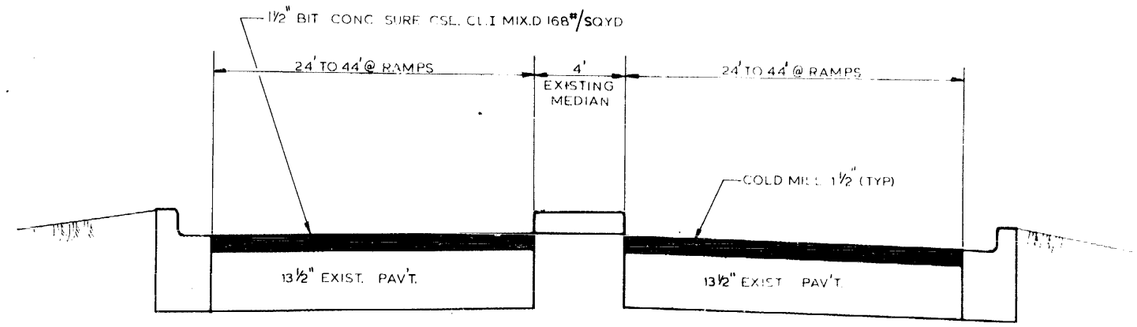
TYPICAL SECTION NO. 10

±STA 105+16 TO ±STA 107+46



TYPICAL SECTION NO. 8

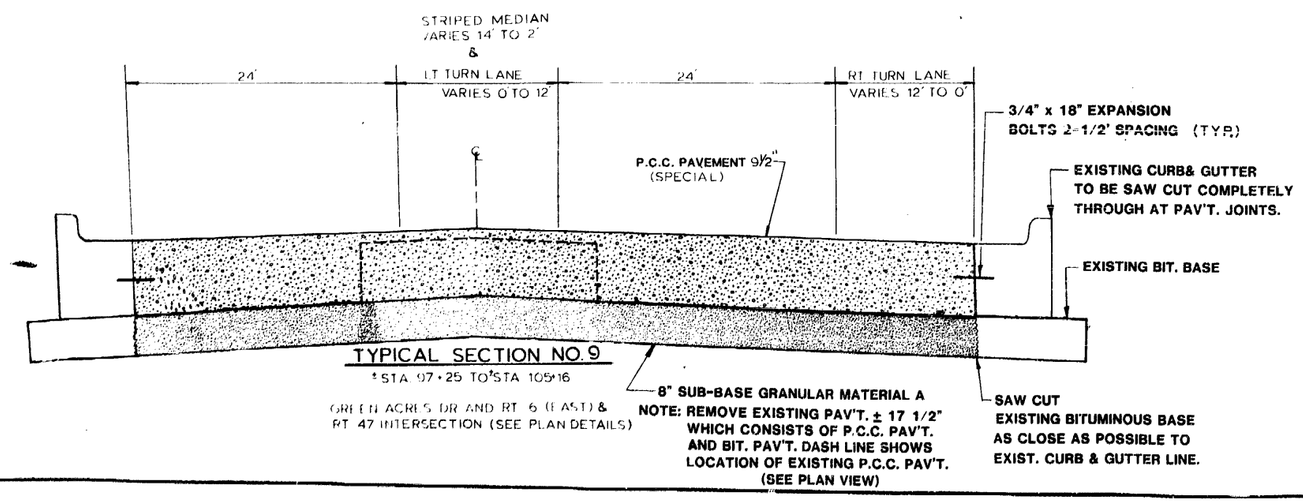
±STA. 71+08 TO ±STA. 97+25



TYPICAL SECTION No. 11

± STA. 107+46 TO ± STA. 114+05.73 (BK) = 163+00 (AH)

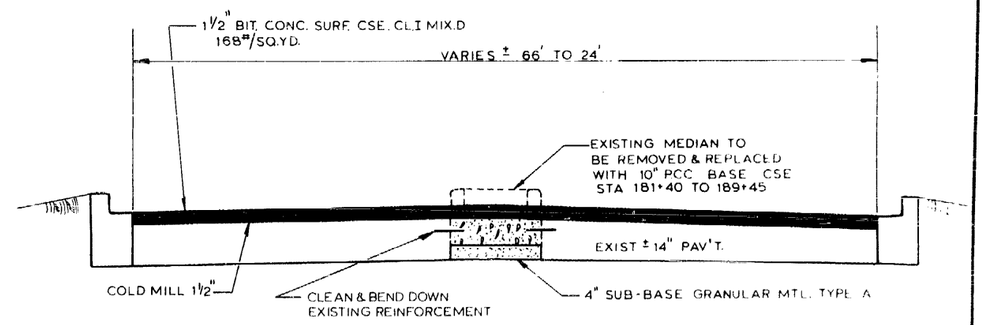
± STA. 163+00 TO ±STA. 181+40



TYPICAL SECTION NO. 9

±STA 97+25 TO ±STA 105+16

GREEN ACRES DR AND RT 6 (EAST) & RT 47 INTERSECTION (SEE PLAN DETAILS)



TYPICAL SECTION No. 12

STA. 181+40 TO STA 190+00

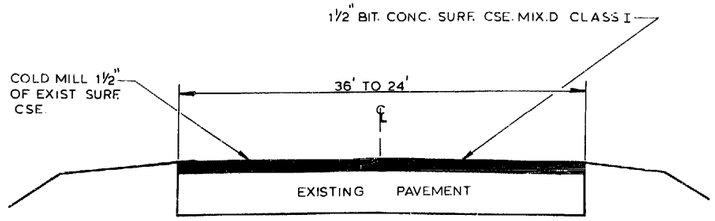
Rev.

ILL 47 PROPOSED TYPICAL SECTIONS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
*	* *	GRUNDY	27	5
F.H.W.A. REG. 4	ILLINOIS	PROJECT		

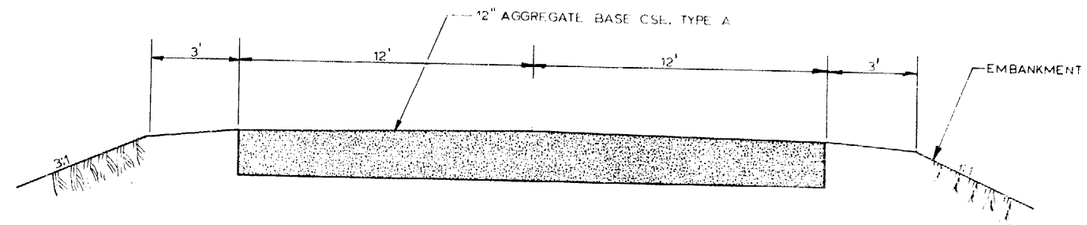
* F.A.P. 100(B.L.47) & S.B.I. 7(I.L.8)

** 111R,(111CS)R-1(111CS)R-2)RS, 111RS-1 ; G&CR-RS



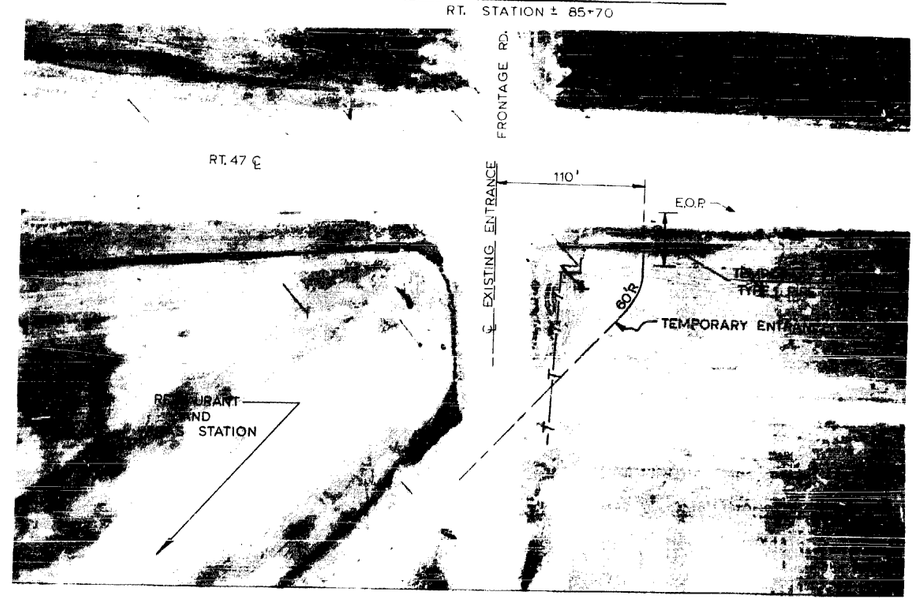
TYPICAL SECTION RT 6 (EAST)

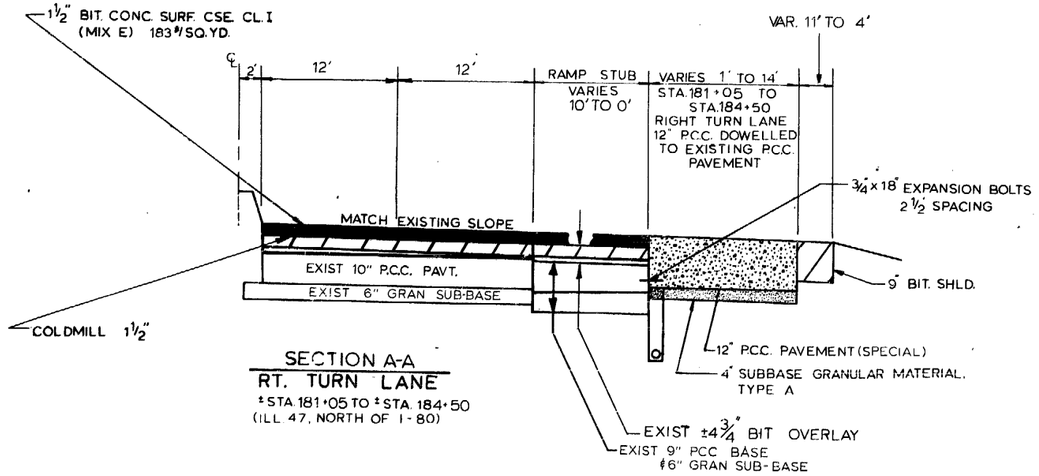
STA 1+88 TO STA 4+65



TYPICAL SECTION TEMPORARY ENTRANCE

RT. STATION ± 85+70





SECTION A-A
RT. TURN LANE

± STA. 181+05 TO ± STA. 184+50
(ILL. 47, NORTH OF I-80)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Andrew Jordan
B.F.C. DISTRICT ENGINEER OF DESIGN

DATE: Nov 30, 1988

EXAMINED BY: James D. Fox
DISTRICT ENGINEER OF CONSTRUCTION

Robert L. Hester
DISTRICT ENGINEER OF MAINTENANCE

Edward M. Kopsend
DISTRICT ENGINEER OF MATERIALS

Earl E. Wilson
DISTRICT ENGINEER OF TRAFFIC

Robert Dodd
DISTRICT ENGINEER OF PLANNING

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

	SUMMARY OF QUANTITIES			ROUTE 47					ROUTE 6	
				CONSTRUCTION TYPE CODE						
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	I000	I000	SFTY-1F	SFTY-1F 12.5 % C	J000	I000	I000 100 % (CITY)
	X0300157	PAVEMENT REMOVAL (RIGID)	SQ YD	2,509	359				2,150		
	X0300158	PAVEMENT REMOVAL (FLEXIBLE)	SQ YD	5,796	116				5,680		
	L0699700	REMOVE EXISTING UNIT DUCT	LIN FT	91			91				
	T4380500	REMOVE EXISTING TRAFFIC CONTROLLER	EACH	2				2			
	X4085700	PORTLAND CEMENT CONCRETE PAVEMENT 9 1/2" (SPECIAL)	SQ YD	7,830					7,830		
	X4085800	PORTLAND CEMENT CONCRETE PAVEMENT 12" (SPECIAL)	SQ YD	975	975						
	L0008600	RELOCATE EXISTING LUMINAIRE	EACH	1			1				
	L0008700	REMOVAL OF EXISTING LIGHT STANDARD	EACH	1			1				
	L0008920	REMOVE CONCRETE FOUNDATION	EACH	1			1				
△	T2010100	SIGN PANEL - TYPE 1	SQ FT	67			67				
△	T4010030	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12			10	2			
△	T4011520	SIGNAL HEAD, 1-FACE, 4-SECTION, WITH ONE DUAL-INDICATION SECTION, BRACKET MOUNTED	EACH	8			8				
△	T4011530	SIGNAL HEAD, 1-FACE, 4-SECTION, WITH ONE DUAL-INDICATION SECTION, MAST ARM MOUNTED	EACH	4			4				
△	T4020200	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED	EACH	2			2				
△	T4020300	PEDESTRIAN SIGNAL HEAD, 2-FACE, POST MOUNTED	EACH	1			1				
△	T4030100	TRAFFIC SIGNAL BACKPLATE	EACH	16			14	2			
△	T4063000	TRAFFIC SIGNAL POST, FERROUS 15 FT.	EACH	1			1				
△	T4085000	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1			1				
△	T4085400	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1			1				
△	T4085600	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	3			3				
△	T4106800	PRETIMED CONTROLLER, SECONDARY, DIGITAL TIMING, 4 DIALS, IN TYPE II CABINET	EACH	2				2			
△	T4110202	FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE I, 2 PHASES	EACH	2				2			
△	T4140650	TIME BASE COORDINATING UNIT	EACH	4				4			
△	T4160200	INDUCTION LOOP DETECTOR AMPLIFIER	EACH	5			5				
△	T4180100	DETECTOR LOOP	LIN FT	1,910			1,910				
△	T4190100	PEDESTRIAN PUSHBUTTON	EACH	4			4				
△	T4201500	GALVANIZED STEEL CONDUIT, PUSHED 2"	LIN FT	80			80				
△	T4207800	PVC CONDUIT IN TRENCH 1 1/2"	LIN FT	21			21				

△ SPECIALTY ITEMS

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	GRUNDY	57	8
STA.		TO STA.		

* F.A.P. 100 (ILL. 47) & S.B.I. 7 (R.C.S. 6)
** (III R, (III CSIR 1, (III CSIR 280,III RS 1 & (III CSIR 6)

	SUMMARY OF QUANTITIES				ROUTE 47					ROUTE 6		
					CONSTRUCTION TYPE CODE							
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	I000	I000	SFTY-1F	SFTY-1F 12.5 % C	J000	I000	I000 100 % (CITY)
△	T4207900	PVC CONDUIT IN TRENCH 2"	LIN FT	30			30				
△	T4214200	ELECTRIC CABLE IN CONDUIT NO. 14 2/C	LIN FT	2,036			2,036				
△	T4214201	ELECTRIC CABLE IN CONDUIT NO. 14 3/C	LIN FT	349			349				
△	T4214203	ELECTRIC CABLE IN CONDUIT NO. 14 5/C	LIN FT	1,537			1,517	20			
△	T4214205	ELECTRIC CABLE IN CONDUIT NO. 14 7/C	LIN FT	2,106			2,106				
△	T4218600	ELECTRIC CABLE IN CONDUIT NO. 14 2/C, TWISTED, SHIELDED	LIN FT	2,550			2,550				
△	T4270100	CONCRETE FOUNDATION, TYPE A	LIN FT	3			3				
△	T4270400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	LIN FT	55			55				
△	T4281600	REBUILD EXISTING HANDHOLE	EACH	6			6				
△	T4300100	TRENCH AND BACKFILL	LIN FT	51			51				
△	T4380200	REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	2				2			
△	T4390100	MODIFY EXISTING CONTROLLER	EACH	2			2				
△	T4400100	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2			2				
△	T4440200	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9			9				
△	T4450100	PULL ELECTRIC CABLE FROM CONDUIT	LIN FT	6,058			6,058				
△	T4470100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2			2				
△	T4510100	DRILL EXISTING FOUNDATION	EACH	1			1				
△	T5010100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,641.1	464.2	560			299.7	234	83.2
△	T5010400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	LIN FT	50,072	32,763	12,126			2,246	2,880	57
△	T5010500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	LIN FT	7,429	4,209	866			1,312	930	112
△	T5010600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	LIN FT	5,799	4,056	1,035			258	402	48
△	T5010700	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	LIN FT	1,131	644	244			194	49	
	X0937300	SLURRY SEAL	SQ YD	5,472	5,472						
	Z0013700	CONSTRUCTING TEST STRIP	EACH	2	1	1					
	Z0024400	FILTER FABRIC	SQ YD	160	160						
	Z0039200	PERMANENT SURVEY MARKERS, TYPE I	EACH	3	1	1					1
	20700100	EMBANKMENT	CU YD	1301	1301						
	21000100	TRENCH BACKFILL	CU YD	10.4	10.4						
	21300300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	1,073	12				975	86	
	21300700	SUB-BASE GRANULAR MATERIAL, TYPE A 8"	SQ YD	7,830					7,830		

△ SPECIALTY ITEMS

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

				ROUTE 47					ROUTE 6	
	SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000	I000	SFTY-1F	SFTY-1F 12.5 % C	J000	I000	1000 100 % (CITY)
21900700	BITUMINOUS SHOULDERS 9"	SQ YD	946	946						
30101100	AGGREGATE BASE COURSE, TYPE A 12"	SQ YD	400	400						
30400500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	418	332					86	
30800900	BITUMINOUS BASE COURSE 12"	SQ YD	44	44						
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	8,394	4,708	2,076				512	1098
40600300	AGGREGATE (PRIME COAT)	TON	209	116	52				13	28
40600850	BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS I TYPE 2	TON	8,661	6,976						1,685
40801200	PAVEMENT FABRIC	SQ YD	8,805	975				7,830		
50102900	EXPANSION BOLTS 3/4 INCH	EACH	947	170				706	71	
50300400	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	8	8						
* 50801001	STEEL BRIDGE RAIL	LIN FT	594	594						
51100436	PIPE CULVERTS, TYPE 1 RCCP 21"	LIN FT	20	20						
51123666	PIPE CULVERTS, TYPE 1 21" TEMPORARY	LIN FT	50	50						
51113666	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21"	EACH	2	2						
* 51400200	RELOCATE EXISTING NAME PLATE	EACH	1	1						
60707600	PIPE UNDERDRAINS 4"	LIN FT	362	362						
61605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	LIN FT	76	76						
61700044	BITUMINOUS SURFACE REMOVAL (COLD MILLING) 1"	SQ YD	5,734	5,454						280
61700046	BITUMINOUS SURFACE REMOVAL (COLD MILLING) 1 1/2"	SQ YD	81,593	53,057	25,943					2,593
61700070	BITUMINOUS SURFACE REMOVAL (COLD MILLING), VARIABLE DEPTH	SQ YD	17,204						6,308	10,896
61700500	COMBINATION CURB AND GUTTER REMOVAL	LIN FT	604	83				344	177	
61701430	BITUMINOUS SHOULDER REMOVAL	SQ YD	1,079	1,079						
61702010	CONCRETE MEDIAN REMOVAL	LIN FT	710	710						
61702020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	2,222					1,440	782	
61704610	SIDEWALK REMOVAL AND REPLACEMENT (SPECIAL)	SQ FT	200	200						
62001835	CLASS D PATCHES, TYPE I, 16 INCH	SQ YD	64	64						
63900100	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	3	3						
64600400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	2	1	1	1	1	1	1
64700090	TEMPORARY PAVEMENT MARKING	LIN FT	26,355	16,251	5,943			1,404	1,392	1,365
64801800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	.25				.50		.25
65000100	MOBILIZATION	L SUM	1	0.8					0.2	
△ 66030100	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	LIN FT	106			106				
△ 66060200	BARE COPPER WIRE, 1/C NO. 6	LIN FT	155			155				
△ 66100300	UNIT DUCT, 2-600VXLP #6, 1" POLYETHYLENE	LIN FT	155			155				
△ 66200100	TRENCH AND BACKFILL FOR ROADWAY LIGHTING	LIN FT	145			145				
62800000	STEEL PLATE BEAM GUARDRAIL, TYPE A	LIN FT	587.5	587.5						
62800035	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	2						
62800045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2						
62800075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4	4						
T5100300	GUARD RAIL REFLECTORS	EACH	31	31						

△ SPECIALTY ITEMS * CONSTRUCTION TYPE CODE SFTY-2D

ROUTE	SECTION	COUNTY	TOTAL PROJ.	SHEET
F.A.U.R.A. RTE. 4	ILLINOIS	PROJECT		

* F.A.P. 100(ILL.47) & S.B.I. 7(U.S.6)

** 111R(111CS)R-1(111CS)R-2)RS, 111RS-1 (&OR-R)

MAINLINE QUANTITIES

LOCATION	BIT SURFACE REMOVAL COLD MILLING 1 1/2" (SQ YD)	BIT SURFACE REMOVAL COLD MILLING 1" (SQ YD)	BIT SURFACE REMOVAL VAR DEPTH (SQ YD)	PAVEMENT REMOVAL FLEXIBLE (SQ YD)	PAVEMENT REMOVAL RIGID (SQ YD)	BIT MATLS PRIME COAT (GAL)	AGGREGATE PRIME COAT (TON)	BIT CONC SURF CSE MIX D CLASS I (TON)		PCC BASE CSE 10" (SQ YD)	PCC PAVEMENT(SPL) 9 1/2" (SQ YD)	PCC PAVEMENT(SPL) 12" (SQ YD)	SUBBASE GRANULAR MATL TY A 4" (SQ YD)	SUBBASE GRANULAR MATL TY A 8" (SQ YD)	BIT MATL 7" (SQ YD)	TEMP PAVT MARKING TAPE (LIN FT)	EXPANSION BOLTS 3/4" (EACH)	CONCRETE MEDIAN REMOVAL (LIN FT)	[illegible] (LIN FT)	[illegible] (SQ FT)	[illegible] (SQ YD)
ROUTE 47																					
TYPICAL SECTION 1 & 2 STATION 2+83 TO 28+21	17,222					1,377.0	34	1451													
TYPICAL SECTION 3 STATION 28+21 TO 42+90	5,100	2,392				650.0	15	596								7,944					
TYPICAL SECTION 4 STATION 42+90 TO 48+28	3,108					249.0	6	261													
TYPICAL SECTION 4 STATION 48+28 TO 57+95	5,587					447.0	11	469													
TYPICAL SECTION 5 & 6 STATION 57+95 TO 67+00	6,059					484.6	12	509								5,943					
TYPICAL SECTION 7 STATION 67+00 TO 71+08	3,330					267.0	7	280													
TYPICAL SECTION 8 STATION 71+08 TO 87+00	10,967					877.0	22	921													
TYPICAL SECTION 8 STATION 87+00 TO 97+21	7,034					563.0	14	591								1,848					
TYPICAL SECTION 9 STATION 97+21 TO 105+16 INCLUDES ROUTE 6 TO STATION 1+88 & GREEN ACRES DRIVE				5,680	2,150						7,830			7,830		1,404	736		344	1,440	
TYPICAL SECTION 10 STATION 105+16 TO 107+46	1,393					111.4	3	117													
TYPICAL SECTION 11 STATION 107+46 TO 114+05.73 (3K) 163+00 (AH) TO 181+40	14,500	2,462				1,357.0	34	1,356							616	7,259					654
TYPICAL SECTION 12 STATION 181+40 TO 190+00 INCLUDES RIGHT TURN LANE & TRUCK STOP ENTRANCE	4,700			116	359	401.0	10	425		332		975	975		330		170	710			
SUBTOTAL ROUTE 47	79,000	5,454		5,796	2,509	6,784	168	6,976		332	7,830	975	975	7,830	946	23,598	876	710	344	1,440	[illegible]
ROUTE 6																					
TYPICAL SECTION 1 (EAST) STATION 1+88 TO 2+65	996					79.8	2	84								75					
TYPICAL SECTION 1 (WEST) STATION -2+00 TO 30+71 INCLUDES STRUCTURE		280	9,518			780.4	20	814													
TYPICAL SECTION 2 (WEST) STATION 30+71 TO 36+23	1,595					127.6	3	134								1290					
TYPICAL SECTION 1 (WEST) STATION 36+23 TO 41+00			1,378			110.0	3	116													
TYPICAL SECTION 3 (WEST) STATION 41+00 TO 49+02 (INCLUDES LIBERTY ST INTERSECTION)			4,581			366.5	9	385													
TYPICAL SECTION 4 (WEST) STA 49+02 TO 51+82.17			1,727			145.0	4	152		86			86			1392	71		177	782	
SUBTOTAL ROUTE 6	2,593	280	17,204			1,609.3	41	1,685		86			86			2,757	71		177	782	
GRAND TOTAL	81,593	5,734	17,204	5,796	2,509	8,393.3	209	8,661		418	7,830	975	1,061	7,830	946	26,355	947	710	521	2,222	[illegible]

QUANTITY TABLES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
*	* *	[illegible]	[illegible]	11
F.H.W.A. REG. 4	ILLINOIS	PROJECT		

* F.A.P. 100(R.L.47) & S.R.L. 7(LS.6)

** 1 1R,(111CS)R-1(111CS)R-2 RS, 111RS-1 G&QR-R5

RIGHT OF WAY MARKERS

LOCATION	SIDE	OFFSET	EACH
STA 182+00	RT	92.5'	1
STA 183+95	RT	92.5'	1
STA 184+26	RT	155.0'	1
TOTAL			3

QUANTITIES FOR FRONTAGE ROAD

COMB CONC CURB & GUTTER REMOVAL (LIN FT)	COMB CONC CURB & GUTTER TYPE B-6.24 (LIN FT)	4" SUBBASE GRANULAR MATL TYPE A (TONS)	BIT CONC BASE CSE 12" (SQ YD)	BIT CONC SURF CSE MIX D, CL I 1 1/2" (TONS)
83	76	12	44	4

THERMOPLASTIC PAVEMENT MARKINGS

STATION	LANE LINES 6" WHITE SKIP-DASH (LIN FT)	6" WHITE X-WALKS (LIN FT)	MEDIAN 6" YELLOW SOLID (LIN FT)	MEDIAN 6" YELLOW SKIP-DASH (LIN FT)	8" WHITE SOLID (LIN FT)	8" WHITE DASH (LIN FT)	12" WHITE DASH (LIN FT)	12" WHITE X-WALKS (LIN FT)	12" YELLOW DIAGS (LIN FT)	24" WHITE STOP BARS (LIN FT)	ARROWS ↑ (SQ FT)	ARROWS ↰ (SQ FT)	ARROWS ↱ (SQ FT)
IL 47													
2+00 - 20+00	610	2,356	4,629		641	54		2,028	95	340	23.0	109.2	26.0
20+00 - 48+28	1,280	1,385	7,250		198			1,233	74	304			
48+28 - 71+55	950	631	5,979	220	742	124	54	530	131	170	92.0	249.6	
71+55 - 87+00	640	373	2,713	620				320		74		218.4	
87+00 - 97+21	520		2,042	520								140.4	
97+21 - 105+15	350		1,796	100	1,186	126	240		18	194	34.5	187.2	78.0
105+15 - 177+50	1,200		5,142		1,849	16	164		28				
177+50 - 200+00	270		5,349	210	1,299	152	115		319		46.0	93.6	26.0
US 6 (WEST)													
-2+00 - 41+00		57						48					
41+00 - 51+50	70	150	2,660		924	6	101	128	173	49		234.0	
US 6 (EAST)													
0+00 - 5+00					80	32						31.2	52.0
SUBTOTALS	5,890	4,952	37,560	1,670	6,919	510	674	4,287	838	1,131	195.5	1,263.6	182.0
GRAND TOTALS	50,072				7,429		5,799			1,131	1641.1		

WORK ADJACENT TO APPROACH SLABS

LOCATION STATION	SIDE	CLASS D PATCH 16" TYPE I (SQ YD)	PIPE UNDERDRAIN 4" (LIN FT)	TRENCH BACKFILL (CU YD)	CONC HDWL FOR PIPE DRAIN (EACH)	COMB CURB & GUTTER REM & REPL (LIN FT)	SIDEWALK REM & REPL (SPECIAL) (SQ FT)	FILTER FABRIC (SQ YD)
STA 31+10	LT	2 @ 4	44	1.3	1	5	25	20
STA 31+25	RT	2 @ 4	44	1.3	1	5	25	20
STA 36+16.5	LT	2 @ 4	44	1.3	1	5	25	20
STA 36+22.5	RT	2 @ 4	44	1.3	1	5	25	20
STA 37+83.5	LT	2 @ 4	44	1.3	1	5	25	20
STA 37+83.5	RT	2 @ 4	44	1.3	1	5	25	20
STA 40+08.5	LT	2 @ 4	44	1.3	1	5	25	20
STA 40+08.5	RT	2 @ 4	44	1.3	1	5	25	20
TOTALS		64	352	10.4	8	40	200	160

EMBANKMENT

LOCATION	CU YD
ADJACENT RT TURN LANE STA 181+00 TO 185+00	326

GENERAL NOTES

THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

BEFORE ORDERING PIPE CULVERTS OR PIPE CULVERT, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS/CU YD
BITUMINOUS MATERIALS PRIME COAT	0.03	GAL/SQ YD OR 3/4 GAL/SQ YD
AGGREGATE PRIME COAT	0.002	TONS/SQ YD
BITUMINOUS CONCRETE SURFACE COURSE MIX D&E	112&122	LBS/SQ.YD/INCH
TEMPORARY PAVEMENT MARKING	10	FT/100 FT OF APPLICATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE

ILLINOIS BELL TELEPHONE CO.
NORTHERN ILL. GAS CO.
COMMONWEALTH EDISION CO.

NON-MEMBERS KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

TELEPHONE COMMUNICATIONS INC. OF IL.

SLURRY SEAL

±STA TO STA		SIDE	SQ YDS
107+46	TO 112+88	RT	602
112+65	TO 114+05.73 (BK) =		
163+00 (AH)	TO 166+20	LT	514
112+88	TO 114+05.73 (BK) =		
163+00 (AH)	TO 167+63	RT	648
166+20	TO 168+90	LT	301
167+64	TO 169+50	RT	208
171+90	TO 173+78	LT	210
172+54	TO 175+20	RT	297
173+78	TO 179+60	LT	648
175+20	TO 179+83	RT	515
179+60	TO 183+80	LT	468
179+83	TO 181+05	RT	137
185+50	TO 189+45	LT	440
185+10	TO 189+45	RT	484
TOTAL			5,472

ITEMS @ TRUCK STOP ENTRANCE

LOCATION ±STATION	SIDE	PIPE UNDERDRAIN 4" (LIN FT)	PIPE CULV TYPE I RCCP 21" (LIN FT)	PRC END SECTION 21" (LIN FT)
STA 183+81	RT	10	—	—
STA 184+00	RT	—	20	1
STA 185+00	RT	—	—	1
TOTALS		10	20	2

QUANTITIES FOR TEMPORARY ENTRANCE ± STA. 85+70

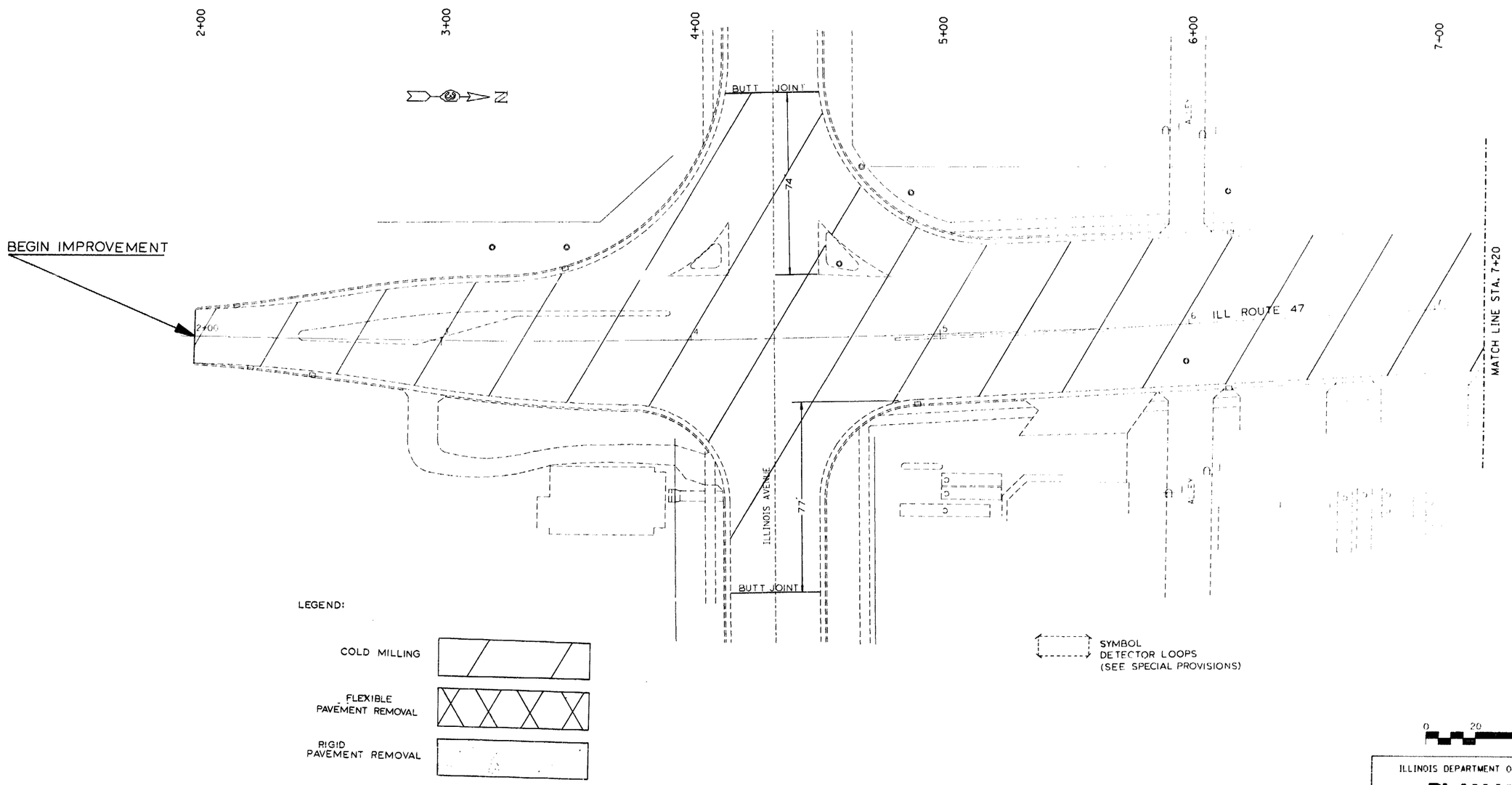
AGGREGATE BASE CSE. TYPE A, 12" SQ.YD.	EMBANKMENT CU.YD.	PIPE CULVERT TYPE 1-21" (TEMPORARY) LIN. FT.
400	975	50

GUARDRAIL TABLE

LOCATION	SIDE	SPBGR REMOVAL LIN FT	TRAF BARRIER TERMINAL TY 1 EACH	TRAF BARRIER TERMINAL TY 2 EACH	TRAF BARRIER TERMINAL TY 5A EACH	SPBGR TY A LIN FT	GUARD RAIL REPL. (EACH)
STRUCTURE #038-0028	SE	177.5	1		1	137.5	4
	NE	177.5		1	1	150.0	4
	SW	215.0		1	1	187.5	5
	NW	152.5	1		1	112.5	4
TOTALS		722.5	2	2	4	587.5	17

QUANTITY TABLES

* F.A.P. 1000(LL.47) & S.B.L. 70(LS.6)
** 111R,(111CSIR-1(111CSIR-2)RS, 111RS-1 G&QR-RS



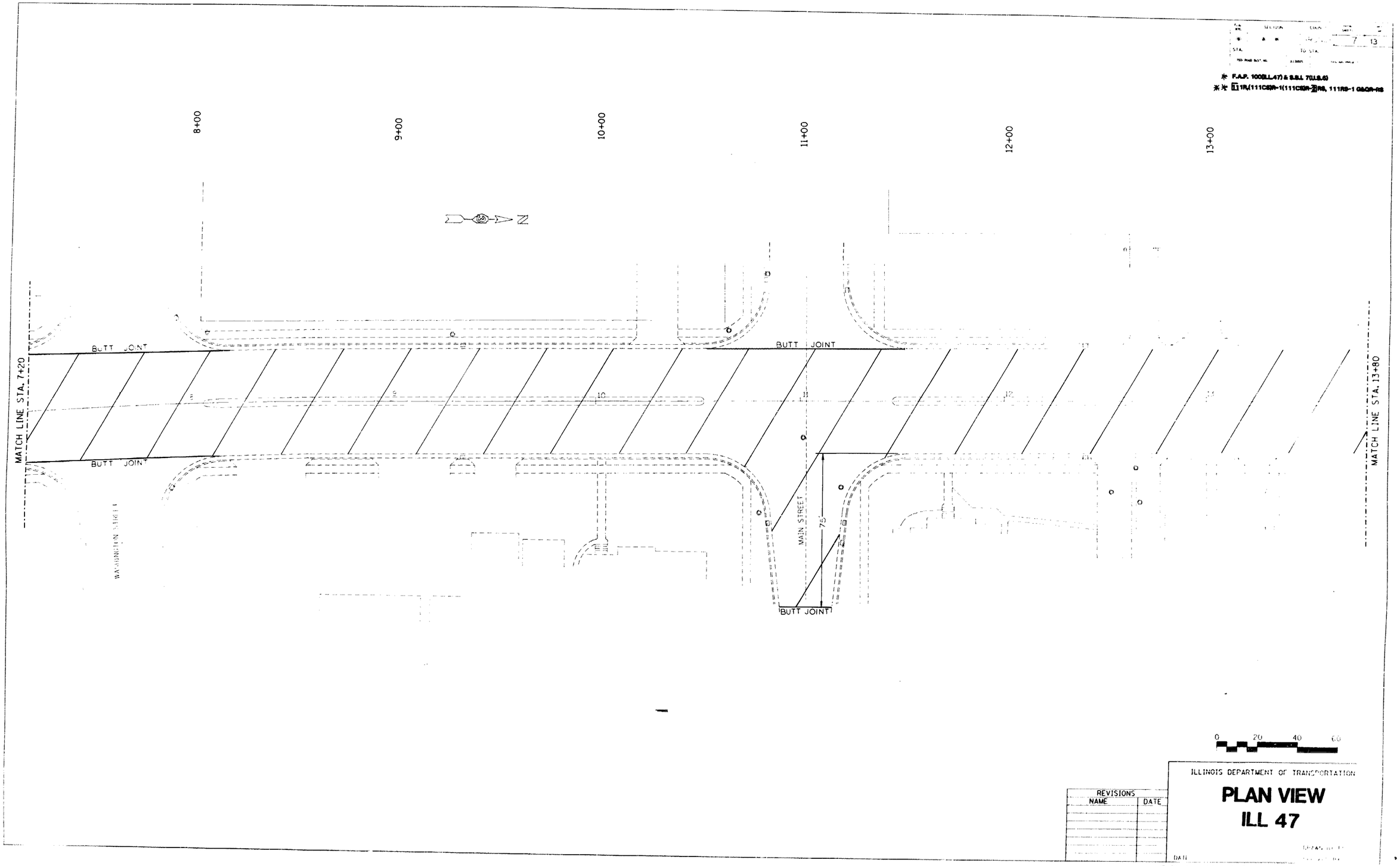
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAN VIEW
ILL 47

DATE

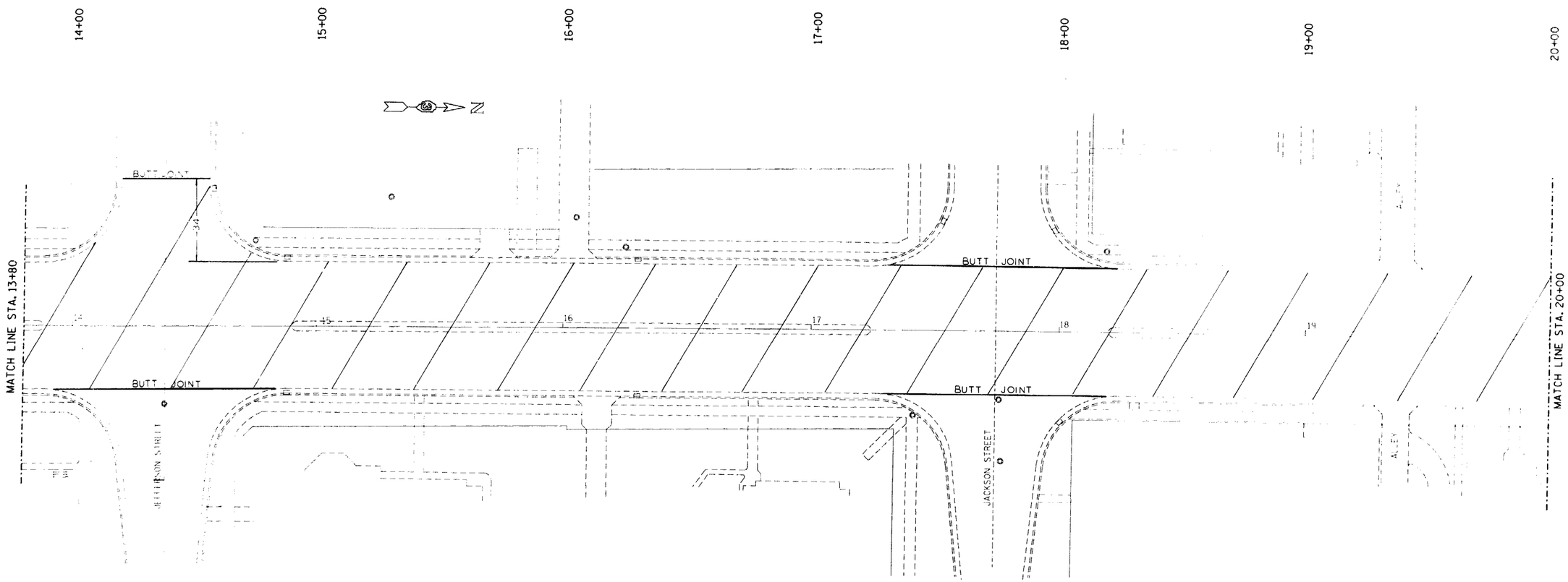
STA. 1+98 - STA. 7+20


F.A.P. 100(ILL.47) & S.B.I. 70(I.S.6)
8+00
9+00
10+00
11+00
12+00
13+00
N
BUTT JOINT
BUTT JOINT
BUTT JOINT
BUTT JOINT
MATCH LINE STA. 7+20
MATCH LINE STA. 13+80
WASHINGTON STREET
MAIN STREET
75'
0 20 40 60
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN VIEW
ILL 47
REVISIONS
NAME
DATE
DATE
STA. 7+20 - STA. 13+80

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
*	* *	GRUNDY	27	14
F.H.W.A. REG. 4	ILLINOIS	PROJECT		

* F.A.P. 100(ILL.47) & S.B.I. 70(I.S.6)

** 111R,(111CSM-1(111CSM-2)RS, 111RS-1 ~~06/29/95~~



0 20 40 60

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAN VIEW
ILL 47

DRAWN BY RG

CHECKED BY

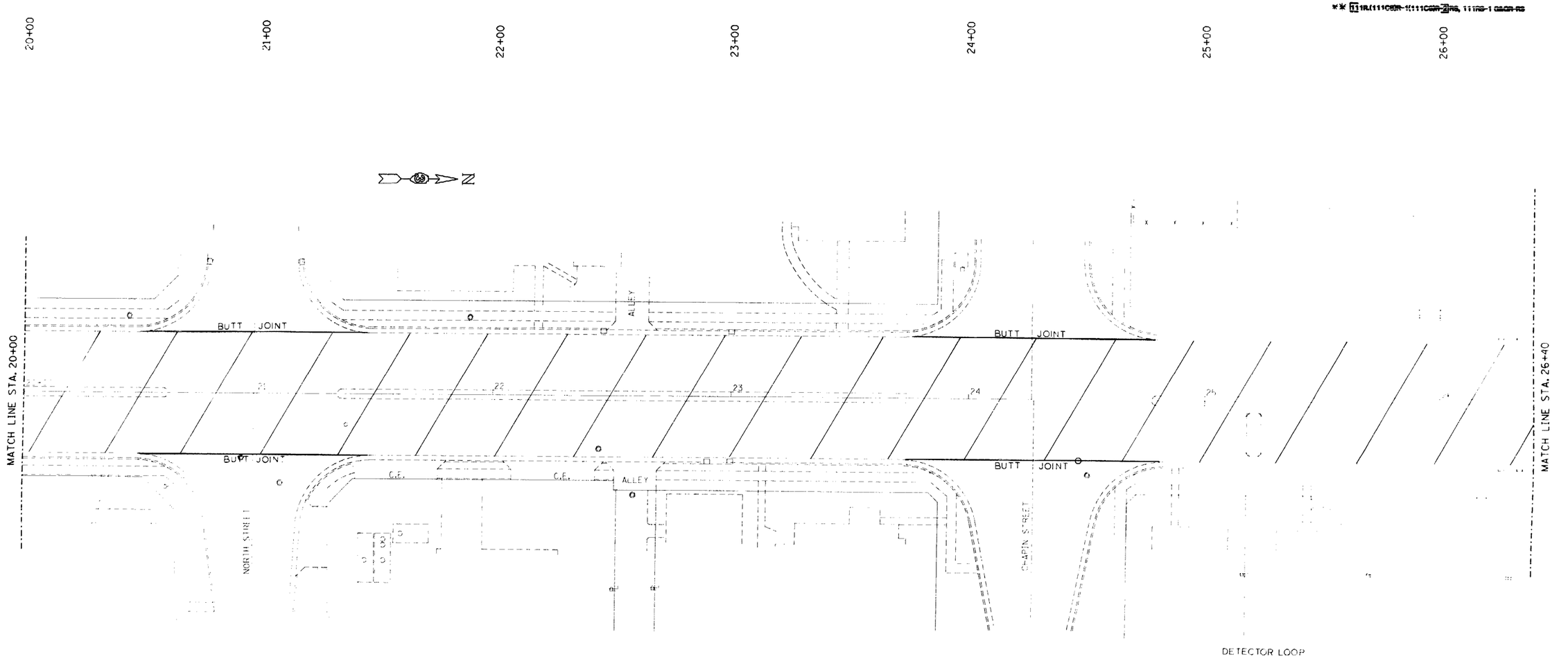
DATE

STA. 13+80 - 20+00

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
*	* *	GRUNDY		15
F.H.W.A. REG. 4	ILLINOIS	PROJECT		

* F.A.P. 1000(LL.47) & S.B.L. 70(U.S.6)

** 111R(111CGR-1)(111CGR-2)RS, 111RG-1 CGCR-RS



0 20 40 60

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAN VIEW
ILL 47

DRAWN BY
CHECKED BY
DATE

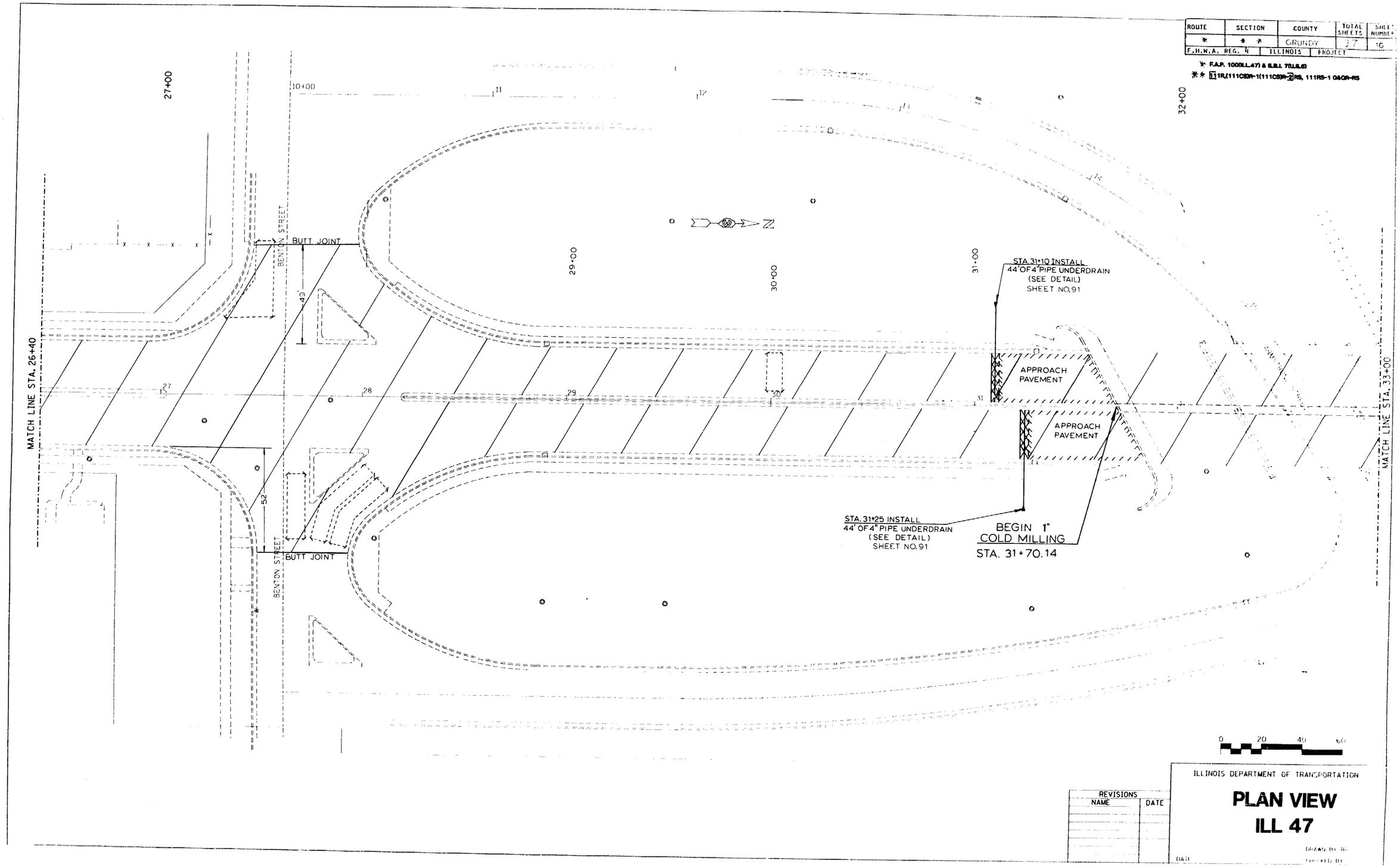
STA. 20+00 - STA. 26+40

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
*	* *	GRUNDY	37	16
F.H.W.A. REG. 4	ILLINOIS	PROJECT		

* F.A.P. 1000(L.47) & S.B.L. 70(L.S.6)

** 111R,(111C8)R-1(111C8)R-2)RS, 111RS-1 0&OR-RS



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

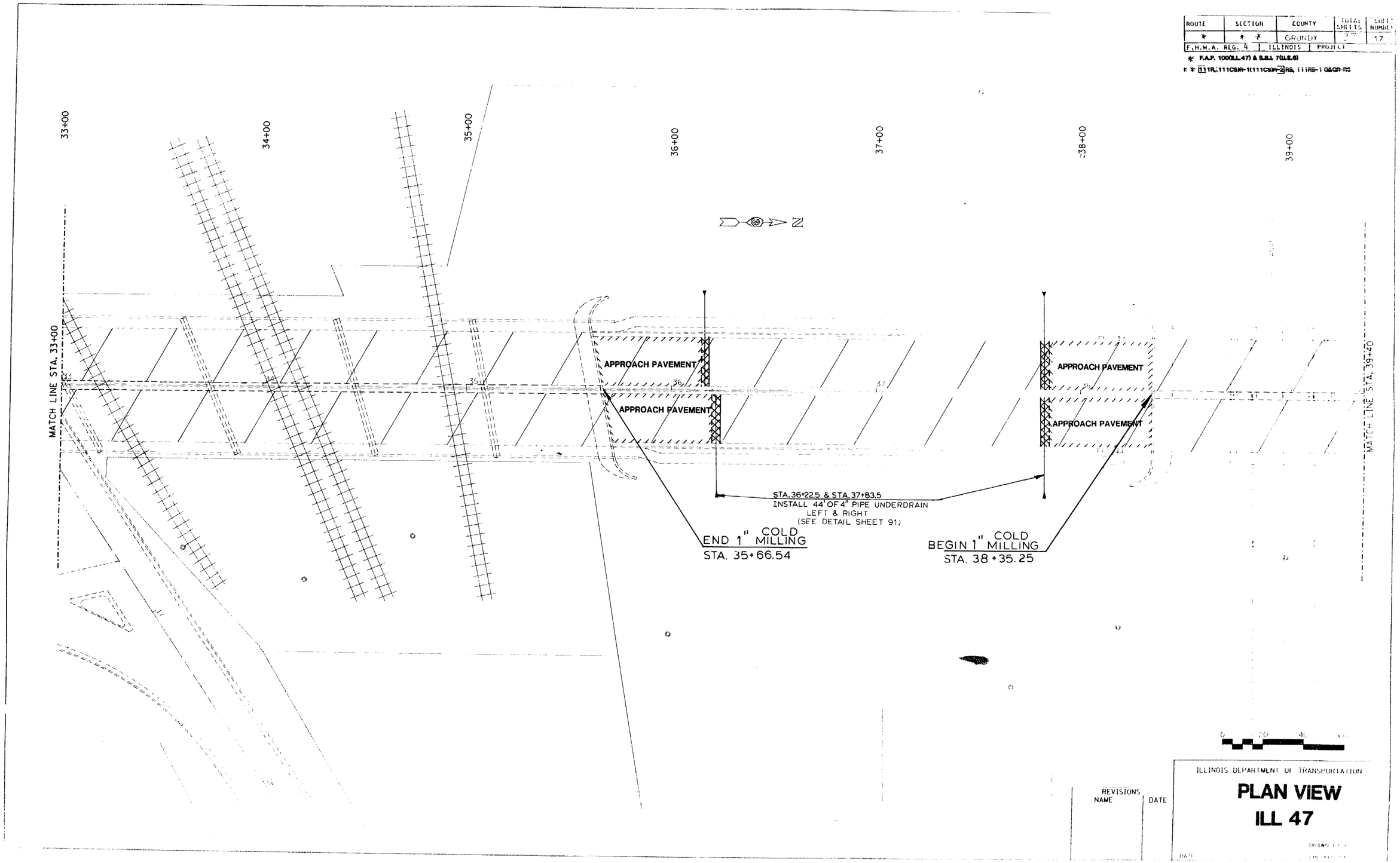
PLAN VIEW
ILL 47

DRAWN BY
CHECKED BY
DATE

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
*	* *	GRUNDY	75	17
F.H.W.A. REG. 4	ILLINOIS	PROJECT		

* F.A.P. 100(ILL.47) & S.B.I. 70(U.S.6)

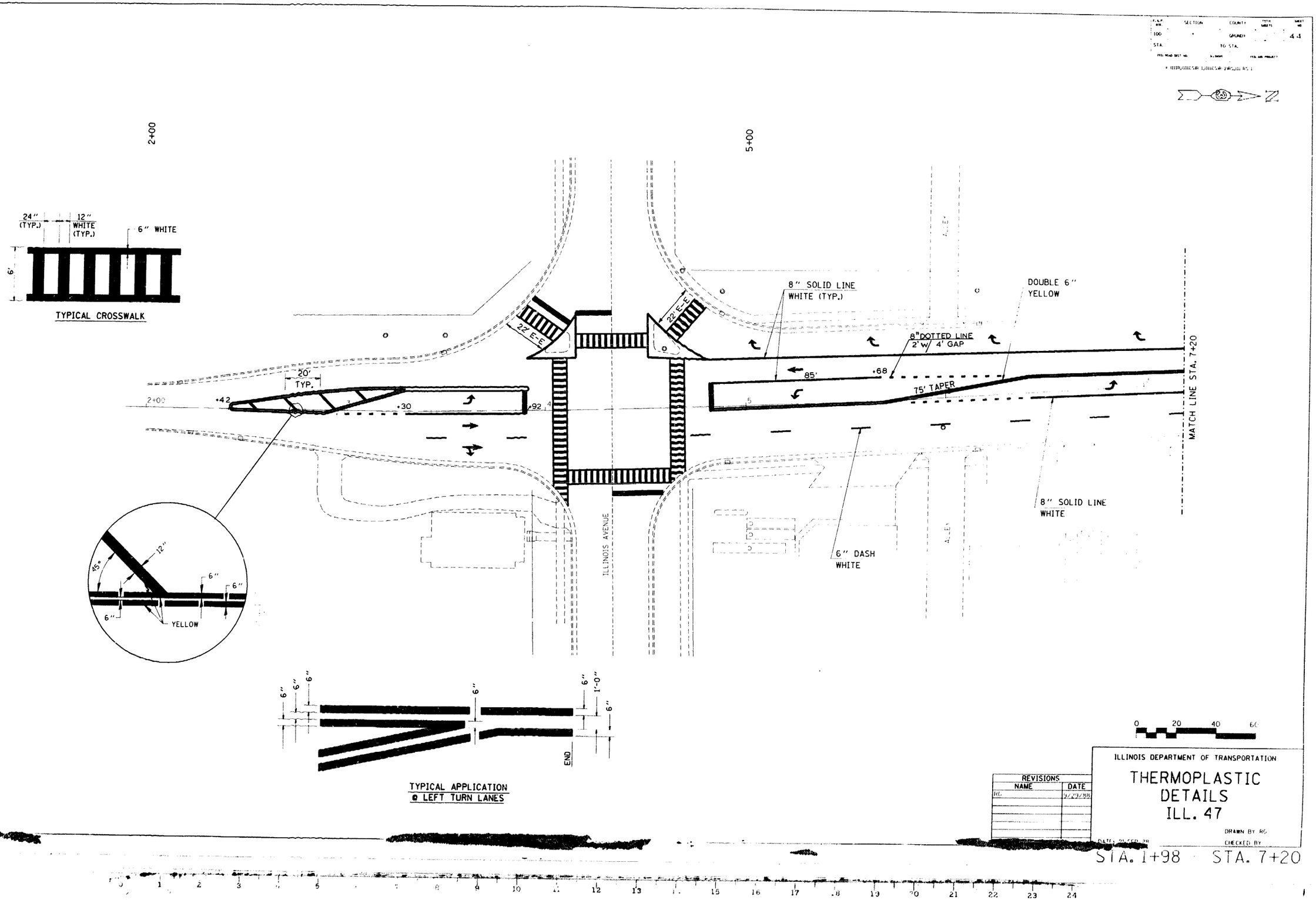
* * 11R,111CSIR-1(111CSIR-2)RS, 111RS-1 G&CR-RS

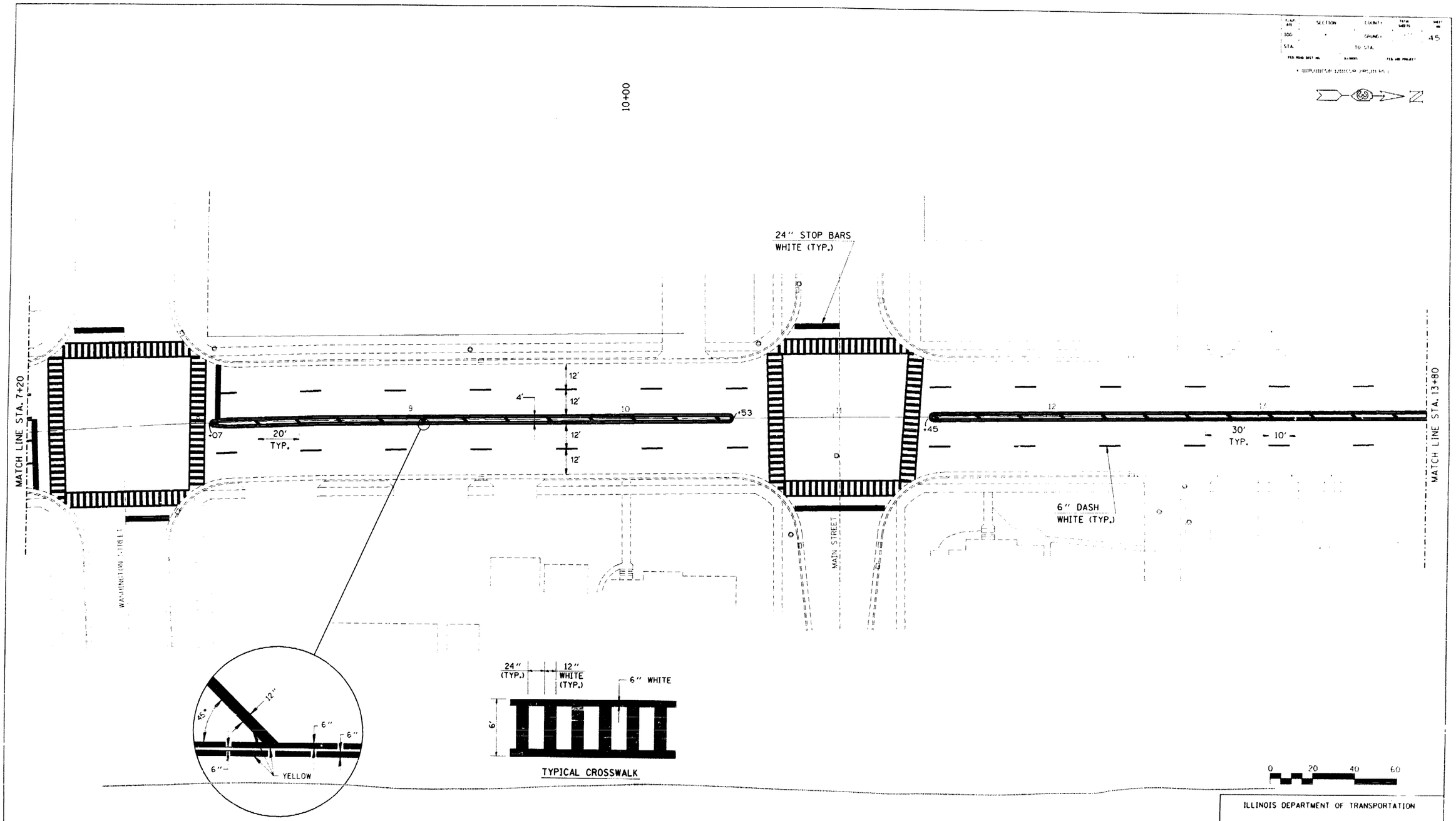


REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAN VIEW
ILL 47


24" (TYP.)
12" WHITE (TYP.)
6" WHITE
6'
TYPICAL CROSSWALK
2+00
5+00
22' E-E
22' E-E
20' TYP.
+42
+30
+92
85'
+68
75' TAPER
8" SOLID LINE WHITE (TYP.)
DOUBLE 6" YELLOW
8" DOTTED LINE 2' W/ 4' GAP
MATCH LINE STA. 7+20
8" SOLID LINE WHITE
6" DASH WHITE
ILLINOIS AVENUE
ALLEY
45°
12"
6"
6"
6"
YELLOW
6"
6"
6"
6"
1'-0"
6"
END
TYPICAL APPLICATION @ LEFT TURN LANES
0 20 40 60
ILLINOIS DEPARTMENT OF TRANSPORTATION
THERMOPLASTIC DETAILS ILL. 47
DRAWN BY RG
CHECKED BY
REVISIONS
NAME
DATE
RG
STA. 1+98
STA. 7+20



REVISIONS	
NAME	DATE
RG	[illegible]

ILLINOIS DEPARTMENT OF TRANSPORTATION

THERMOPLASTIC DETAILS ILL. 47

DATE: 21 SEP 88

DRAWN BY: RG

CHECKED BY:

STA. 7+20 - STA. 13+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
100		CARBONDALE		46
STA.		TO STA.		

FED. ROAD DIST. NO. | ILLINOIS | PROJECT

15+00

20+00

N

MATCH LINE STA. 13+80

MATCH LINE STA. 20+00

+88

+90

+24

+20

15

16

17

18

14

11

12'

4'

12'

12'

12'

20' SPA.

30'

10'

JEFFERSON STREET

JACKSON STREET

12"

45°

6"

6"

6"

YELLOW

24" (TYP.)

12" WHITE (TYP.)

6" WHITE

6'

TYPICAL CROSSWALK

0 20 40 60

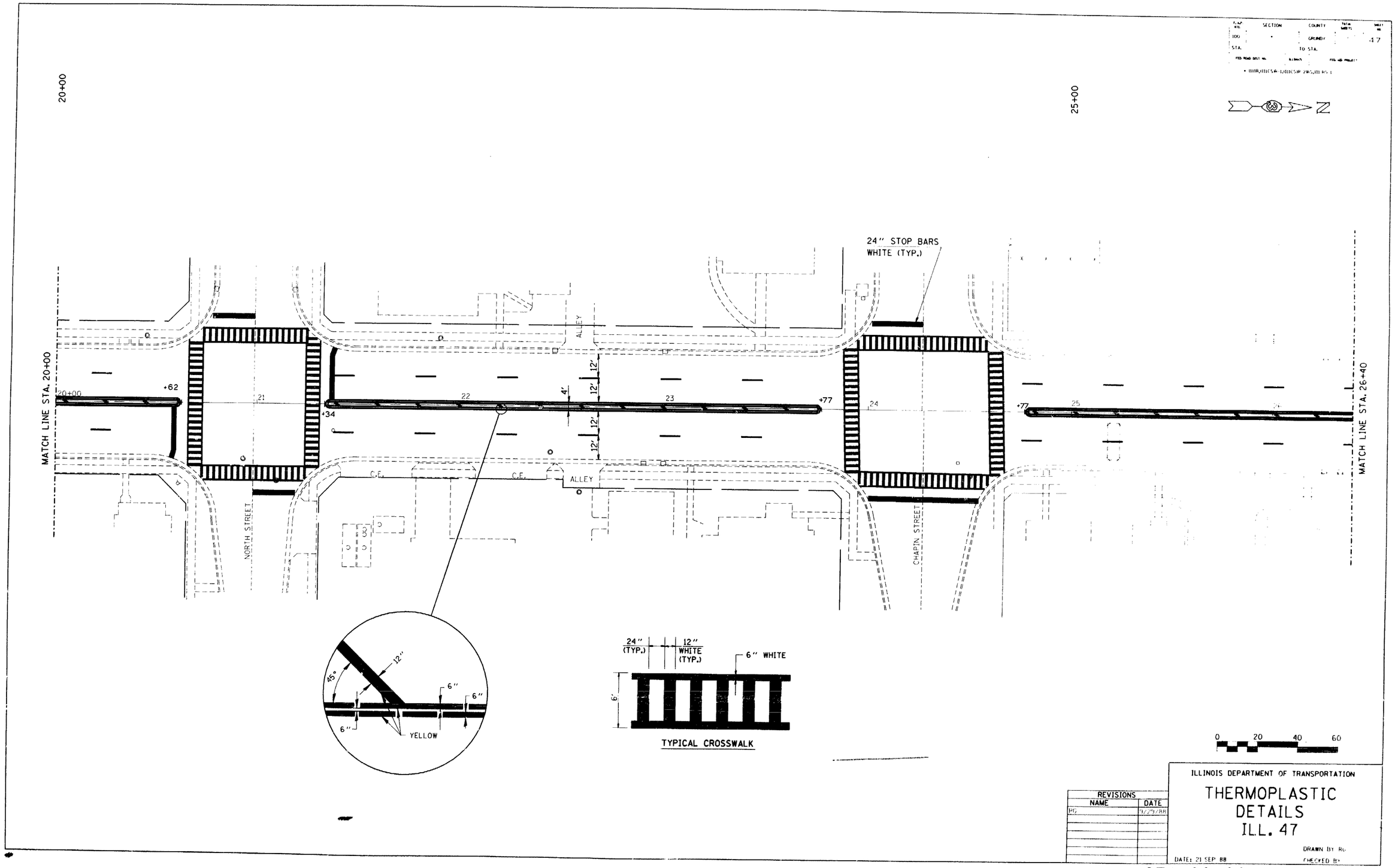
REVISIONS	
NAME	DATE
RG	9/29/88

ILLINOIS DEPARTMENT OF TRANSPORTATION

THERMOPLASTIC DETAILS ILL. 47

DATE: 21 SEP 88 CHECKED BY

STA. 13+80 - 20+00



REVISIONS	
NAME	DATE
PG	9/29/88

ILLINOIS DEPARTMENT OF TRANSPORTATION

THERMOPLASTIC DETAILS ILL. 47

DATE: 21 SEP 88

DRAWN BY: RG

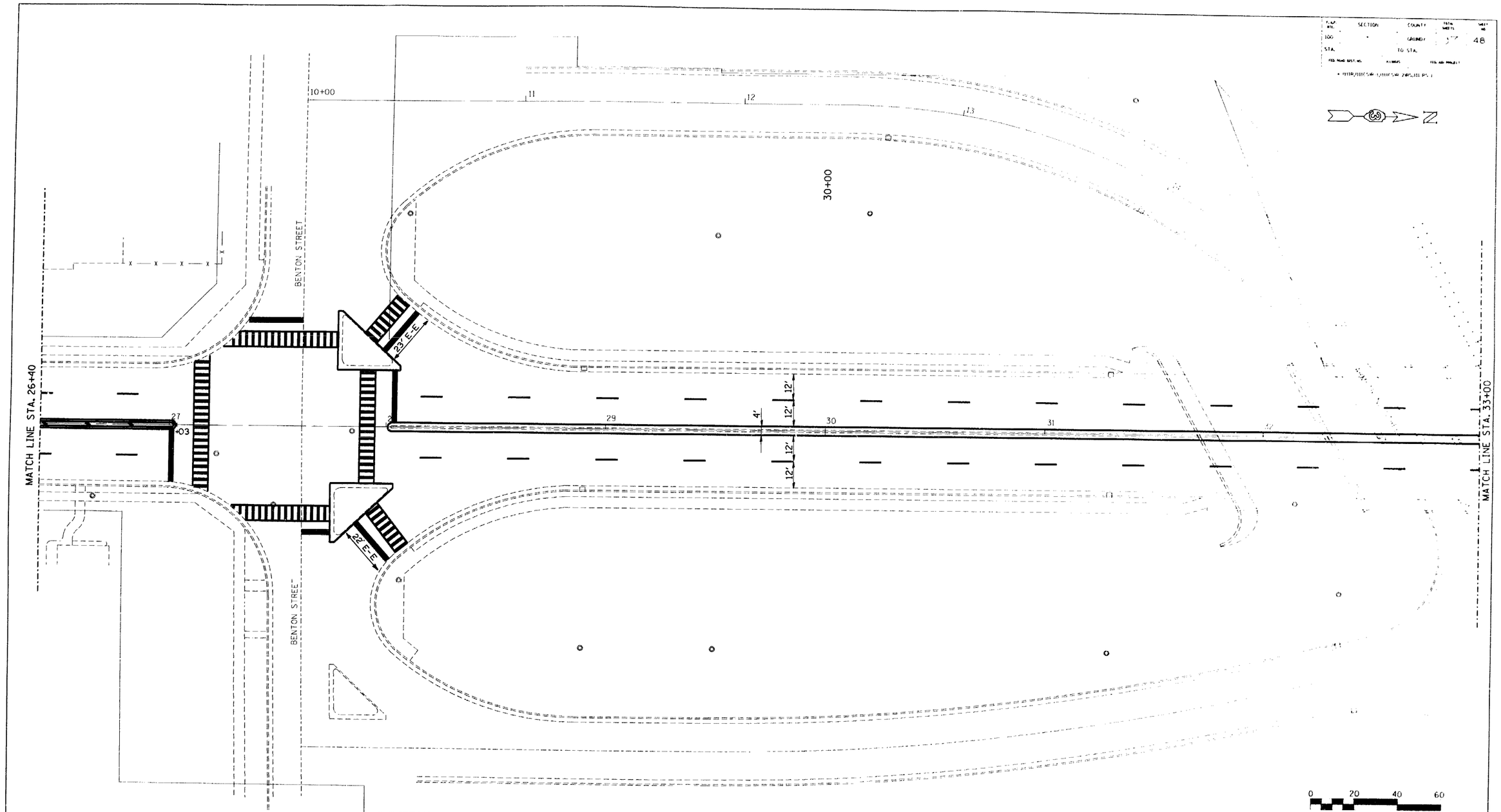
CHECKED BY:

STA. 20+00 - STA. 26+40

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	GRUNDY		48

STA. TO STA.

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



REVISIONS	
NAME	DATE
RG	9/29/88

ILLINOIS DEPARTMENT OF TRANSPORTATION

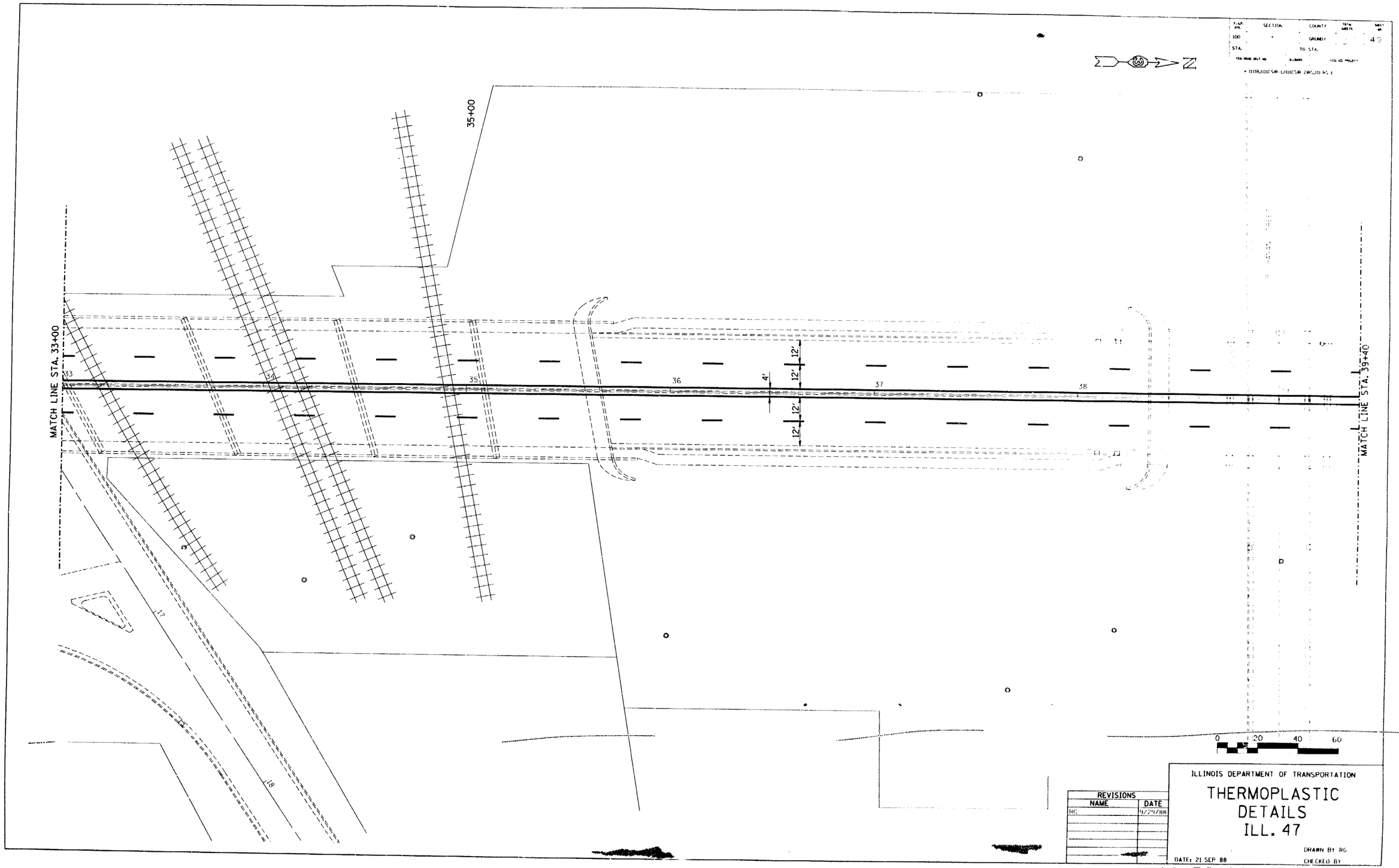
THERMOPLASTIC DETAILS ILL. 47

DATE: 21 SEP 88

DRAWN BY RG

CHECKED BY

STA. 26+40 - STA. 33+00



REVISIONS	
NAME	DATE
RG	9/29/88

ILLINOIS DEPARTMENT OF TRANSPORTATION

THERMOPLASTIC DETAILS ILL. 47

DATE: 21 SEP 88

DRAWN BY RG

CHECKED BY

STA. 33+00 - STA. 39+40