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SCALES:

PLAN	0	10	20
PROFILE HORZ.	0	10	20
PROFILE VERT.	0	5	10
CROSS SECTION HORZ.	0	10	20
CROSS SECTION VERT.	0	5	10

ST. LOUIS STREET (WEST)

ROADWAY DESIGNATION: URBAN COLLECTOR
 DESIGN SPEED: 25 M.P.H.
 DESIGN YEAR: (2024) ADT: 5,350

MADISON STREET (SOUTH) /IL ROUTE 4 (NORTH)

ROADWAY DESIGNATION: ARTERIAL
 DESIGN SPEED: 35 M.P.H.
 DESIGN YEAR: (2024) ADT: 8,250/6,850

U.S. ROUTE 50 (EAST)

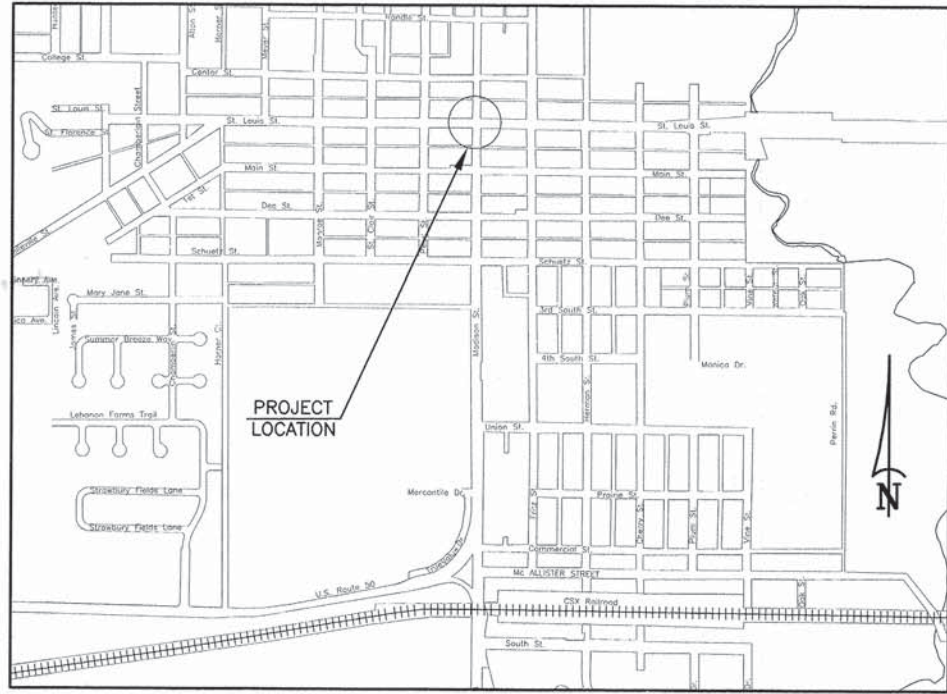
ROADWAY DESIGNATION: ARTERIAL
 DESIGN SPEED: 30 M.P.H.
 DESIGN YEAR: (2024) ADT: 10,100

UTILITY TYPE	NAME OF UTILITY	PHONE NUMBER
ELECTRIC	AMEREN IP	1-800-755-5000
GAS	AMEREN IP	1-800-755-5000
WATER	CITY OF LEBANON	1-618-537-4976
TELEPHONE	AT&T	1-800-480-8088
CABLE	CHARTER COMMUNICATIONS	1-888-438-2427
SANITARY SEWER	CITY OF LEBANON	1-618-537-4976

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

PLANS FOR PROPOSED LOCAL AGENCY PROJECT

FAU ROUTE 9247 (ST. LOUIS STREET)
 FAP ROUTE 314 (IL ROUTE 4)
 FAP ROUTE 327 (US HIGHWAY 50)
 SECTION 06-00017-00-TL
 PROJECT NO. CMM-5011(256)
 CITY OF LEBANON, ILLINOIS
 ST. CLAIR COUNTY
 JOB NO. C-98-301-09
 CMAQ PROGRAM



LOCATION MAP
 NOT TO SCALE

US HIGHWAY 50 (EAST) (STA. 199+54.40 TO 203+66.61) 412.21 FT. = 0.078 MILES
 MADISON STREET/IL ROUTE 4 (STA. 95+64.00 TO 101+77.18) 613.18 FT. = 0.116 MILES
 NET LENGTH OF IMPROVEMENT 1025.39 FT. = 0.194 MILES

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	1
F.A.U. ROUTE				
9247	FEDERAL AID PROJECT		CONTRACT 07572	



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

APPROVED: 11/14/2014 DATE
Rich Wilken - Mayor
 RICH WILKEN, MAYOR

PASSED: February 19, 2015 DATE
Nora A. Kensing
 DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
 BASED ON LIMITED REVIEW: 2/20/15 DATE
Jeffrey J. Kern
 DEPUTY DIRECTOR OF HIGHWAYS
 REGION FIVE ENGINEER

* PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

HOLD IT ! CALL BEFORE YOU DIG !
 Phone J.U.L.I.E.



The owner would like to remind you that underground utility facilities can be damaged by shovel blades or other digging equipment. You can prevent damage or possible personal danger by phoning 800/892-0123 at least 48 hours before you dig. That's the toll-free number for "J.U.L.I.E.", which stands for Joint Utilities Location Information for Excavators.

If there are any pipes, cables, lines or mains in the excavation area, utility personnel will be out to mark the facilities so you can work around them.

Toll Free 800/892-0123



PREPARED BY:
RHUTASEL and ASSOCIATES, INC.
 CONSULTING ENGINEERS • LAND SURVEYORS

CORPORATE OFFICE
 4 INDUSTRIAL DRIVE
 FREEBURG, ILLINOIS 62243
 (618) 539-3178

REGIONAL OFFICE
 201 SOUTH LOCUST STREET
 CENTRALIA, ILLINOIS 62801
 (618) 532-1992



Christopher A. Smith
 Christopher A. Smith
 4/1/2015
 Date of Signing
 11/20/2015
 Date of License Expiration

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	SIGNALS
20101200	TREE ROOT PRUNING	EACH	1	1	
20200100	EARTH EXCAVATION	CU YD	1,559	1,559	
25000100	SEEDING, CLASS 1	ACRE	0.15	0.15	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	13.5	13.5	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	13.5	13.5	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	13.5	13.5	
25100115	MULCH, METHOD 2	ACRE	0.15	0.15	
25100630	EROSION CONTROL BLANKET	SQ YD	131	131	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	15	15	
31100300	SUBBASE GRANULAR MATERIAL TYPE A, 4"	SQ YD	4,047	4,047	
35102000	AGGREGATE BASE COURSE, TYPE B, 8"	SQ YD	105	105	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	514	514	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	145	145	
40603090	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N90	TON	28	28	
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90	TON	104	104	
40600050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	18	18	
42000416	PORTLAND CEMENT CONCRETE PAVEMENT, 9 1/4" (JOINTED)	SQ YD	3,673	3,673	
42001200	PAVEMENT FABRIC	SQ YD	3,673	3,673	
42001300	PROTECTIVE COAT	SQ YD	4,038	4,038	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	121	121	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	3,060	3,060	
42400800	DETECTABLE WARNINGS	SQ FT	86	86	
44000100	PAVEMENT REMOVAL	SQ YD	3,270	3,270	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	85	85	
44000300	CURB REMOVAL	FOOT	145	145	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,568	1,568	
44000600	SIDEWALK REMOVAL	SQ FT	3,773	3,773	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	659	659	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	868	868	
66700205	PERMANENT SURVEY MARKERS, TYPE 1	EACH	4	4	
67100100	MOBILIZATION	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	10	10	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	68	68	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	173	173	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2778	2778	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	557	557	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	140	140	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	23	23	
72000100	SIGN PANEL - TYPE J	SQ FT	54	12.5	41.5
72900100	METAL POST - TYPE A	FOOT	50	50	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	32	32	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1075	1075	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	32	32	
78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	141	141	
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1703	1703	
78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	557	557	
78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	108	108	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	44	44	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	64	64	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2	2	
80500100	SERVICE INSTALLATION, TYPE A	EACH	1	1	
81028180	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1-1/2" DIA.	FOOT	6	6	
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	115	115	

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	SIGNALS
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA.	FOOT	491		491
81028360	UNDERGROUND CONDUIT, PVC, 2-1/2" DIA.	FOOT	46		46
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	143		143
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	104		104
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	13		13
81400100	HANDHOLE	EACH	6		6
81400300	DOUBLE HANDHOLE	EACH	1		1
84500120	REMOVAL OF ELECTRICAL SERVICE INSTALLATION	EACH	1		1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1156		1156
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1212		1212
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1527		1527
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1422		1422
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3010		3010
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C	FOOT	10		10
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	363		363
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		1
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2		2
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1		1
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3		3
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	55		55
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5		5
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4		4
88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	3		3
88040290	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4		4
88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	9		9
88500100	INDUCTIVE LOOP DETECTOR	EACH	15		15
88600100	DETECTOR LOOP, TYPE 1	FOOT	2011		2011
88700200	LIGHT DETECTOR	EACH	4		4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1
XX000679	CUT AND CAP EXISTING WATER MAIN	EACH	1	1	
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	784		784
X0327235	LOCATING UNDERGROUND UTILITIES	FOOT	20	20	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1143	1143	
X6660445	RIGHT OF WAY AND PROPERTIES CORNER	EACH	9	9	
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1	1	
Z0012455	CONCRETE STEP REMOVAL	EACH	1	1	
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	20	20	

* SPECIALTY ITEM

APPLICABLE IDOT HIGHWAY STANDARDS:

280001-07	701901-04	873001-02
420001-08	720001-01	877001-05
420701-02	720006-04	878001-10
424006-02	720016-03	880006-01
424021-03	729001-01	886001-01
606001-06	780001-05	886006-01
667101-02	805001-01	BLR 21-9
701501-06	814001-03	BLR 22-7
701701-09	814006-02	
701801-05	857001-01	

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	2
F.A.U. ROUTE	9247 FEDERAL AID PROJECT		CONTRACT 97572	

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012.
- THE PROPOSED EMBANKMENT SHALL BE BENCHMARKED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER.
- "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE 48"x48".
- ALL AREAS DISTURBED FOR ANY REASON WITHIN THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH CLASS 1 SEEDING. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04. AREAS DISTURBED BEYOND THE CONSTRUCTION LIMITS SHALL BE SEEDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS AND FACE OF CURBS.
- THE COST OF REMOVING AND RELOCATING ALL EXISTING TRAFFIC SIGNS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- FACTORS USED FOR APPLICATION RATES AND QUANTITY CALCULATIONS ARE AS FOLLOWS:
PAVING
ALL HOT-MIX ASPHALT 0.056 TONS/SQ. YD./INCH
BITUMINOUS MATERIALS (PRIME COAT) 0.06 LB./SQ. FT. (PMA/CONCRETE)
BITUMINOUS MATERIALS (PRIME COAT) 0.25 LB./SQ. FT. (AGGREGATE)
AGGREGATE BASE COURSE 0.0555 TONS/SQ. YD./INCH
SEEDING
NITROGEN FERTILIZER NUTRIENT 90 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT 90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT 90 LBS/ACRE
MULCH 2 TONS/ACRE
- CHANGES IN THE VERTICAL OR HORIZONTAL DIMENSIONS OF GUTTERS, CURBS, OR CURB AND GUTTERS, WHEN TRANSITIONED FROM ONE TYPE TO ANOTHER AS SHOWN IN THE PLANS, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR THE TYPE SPECIFIED IN THE PLAN SCHEDULE.
- THE REMOVAL OF ANY CURB AND GUTTER SHALL ALSO INCLUDE THE DISCONNECTION OF THE EXISTING CURB AND GUTTER FROM ANY REINFORCEMENT OR COLLATERAL MATERIAL THAT MAY BE PRESENTLY ATTACHED. THERE SHALL NOT BE ANY ADDITIONAL COMPENSATION AND THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE REMOVAL ITEM.
- IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.ILLUS/EA/B.
- THE TOP 6 INCHES OF ALL NECESSARY BACKFILL SHALL BE FREE FROM ALL ROCKS OR FOREIGN DEBRIS.
- ALL PIPE DRAINS/ROOF DRAINS, BOTH EXPOSED AND UNEXPOSED, THAT DISCHARGE OVER TOP THE EXISTING CURB SHALL BE PLACED UNDER THE SIDEWALK AND DAYLIGHTED. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- AN ESTIMATED 1,130 TONS OF BITUMINOUS MATERIAL WILL BE REMOVED FROM THE PROJECT.
- ALL EXISTING AND PROPOSED RIGHT OF WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
- AN ESTIMATED QUANTITY OF 20 FEET FOR "LOCATING UNDERGROUND UTILITIES" HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE UTILITY EXPLORATION AT LOCATIONS OF POTENTIAL CONFLICTS AS DIRECTED BY THE ENGINEER.

COMMITMENTS

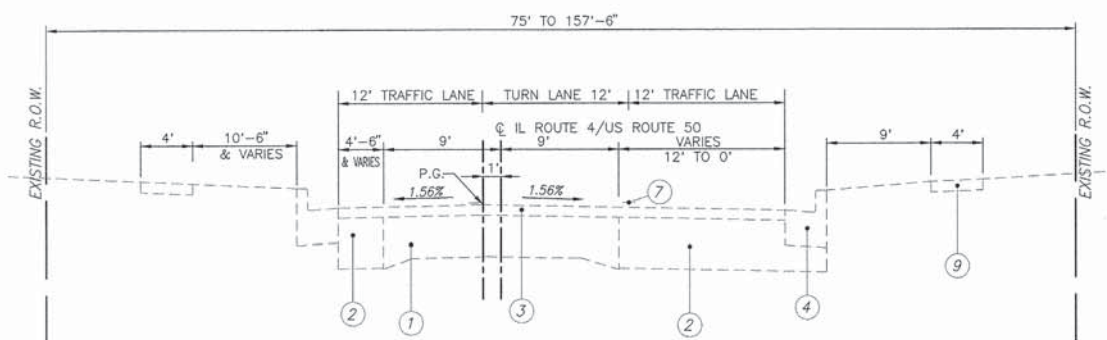
EVERY EFFORT SHALL BE TAKEN NOT TO DAMAGE THE EXISTING OAK TREE LOCATED AT STATION 96+60, 34' RT.

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	3
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	
9247				

LEGEND

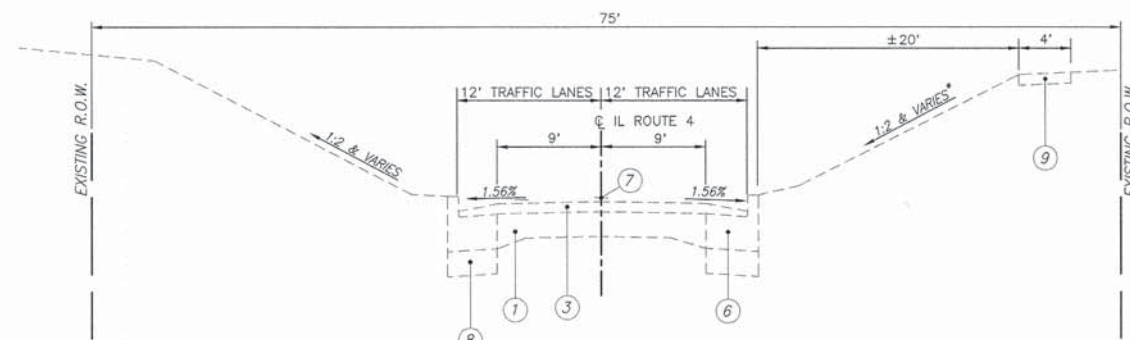
- | | |
|-------------------------------------------------------|------------------------------------------|
| ① EXISTING CONCRETE PAVEMENT (9"-6"-9") | ⑧ EXISTING FRENCH DRAIN |
| ② EXISTING PCC WIDENING (8") | ⑨ EXISTING PCC SIDEWALK (4") |
| ③ EXISTING HOT-MIX ASPHALT RESURFACING (±2½") | ⑩ EXISTING BRICK SIDEWALK |
| ④ EXISTING COMBINATION CURB & GUTTER, TYPE B-6.24 | ⑪ EXISTING AGGREGATE BASE COURSE (8") |
| ⑤ EXISTING HOT-MIX ASPHALT BASE COURSE WIDENING (12") | ⑫ EXISTING HOT-MIX ASPHALT PAVEMENT (3") |
| ⑥ EXISTING COMBINATION CURB & GUTTER, TYPE B-6.36 | ⑬ EXISTING CUT STONE CURB |
| ⑦ EXISTING PAVEMENT MARKING | ⑭ EXISTING BRICK PAVEMENT |

LEBANON INTERSECTIONS TYPICAL SECTIONS



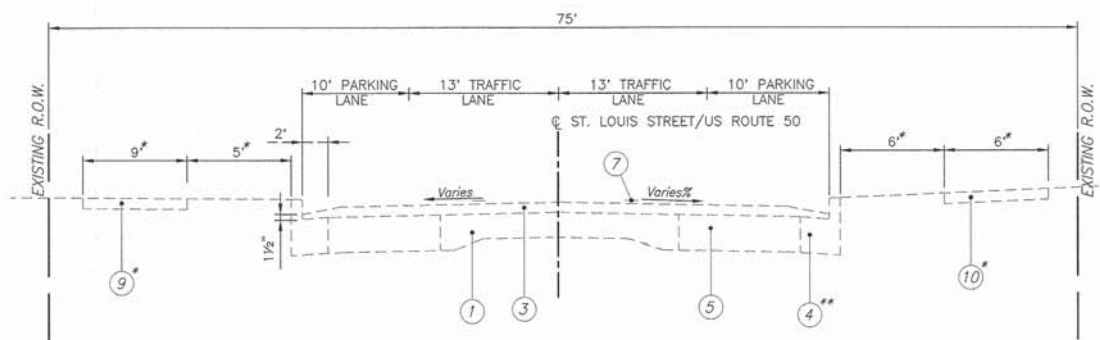
EXISTING TYPICAL SECTION

N.T.S.
ILLINOIS ROUTE 4/US ROUTE 50
STA. 95+65.41 TO STA. 98+83.53



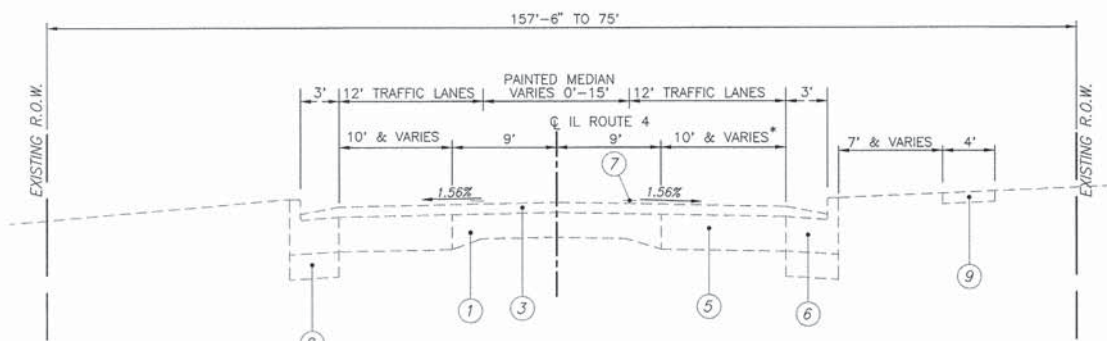
EXISTING TYPICAL SECTION

N.T.S.
ILLINOIS ROUTE 4
STA. 101+22.86 TO STA. 101+77.18
* - EXISTING RIPRAP ON 1:2 SLOPE STA. 101+48.76 TO 101+77.18



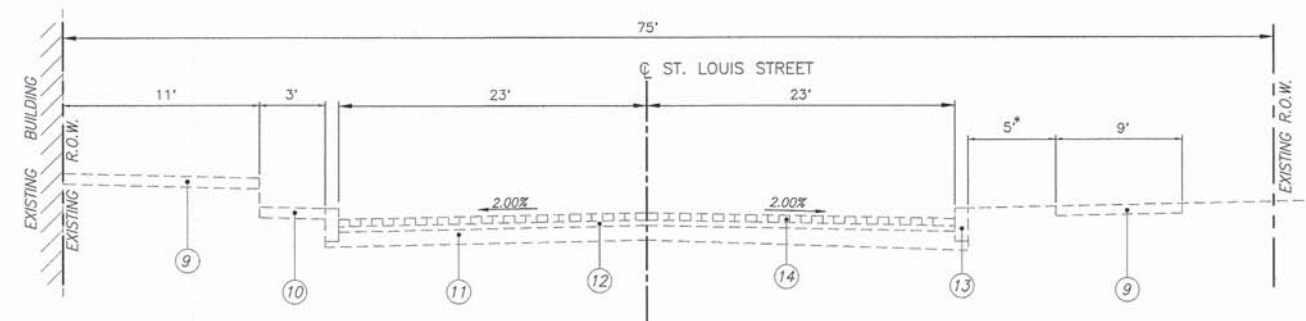
EXISTING TYPICAL SECTION

N.T.S.
W. ST. LOUIS STREET/US ROUTE 50 (NORTH INTERSECTION)
STA. 198+85.89 TO STA. 203+69.36
* - SEE PLAN SHEET FOR LOCATIONS AND DIMENSIONS OF PCC/BRICK SIDEWALK AND BUFFER WIDTHS
** - GUTTER PAN ON W. ST. LOUIS STREET IS NOT RESURFACED OVER



EXISTING TYPICAL SECTION

N.T.S.
ILLINOIS ROUTE 4
STA. 98+83.53 TO STA. 101+22.86
* - EXISTING WIDENING IS 0'-10' STA. 100+24.38 TO 101+22.86



EXISTING TYPICAL SECTION

N.T.S.
ST. LOUIS STREET
STA. 196+00 TO STA. 198+85.89
* - SEE PLAN SHEET FOR SIDEWALK BUFFER WIDTHS

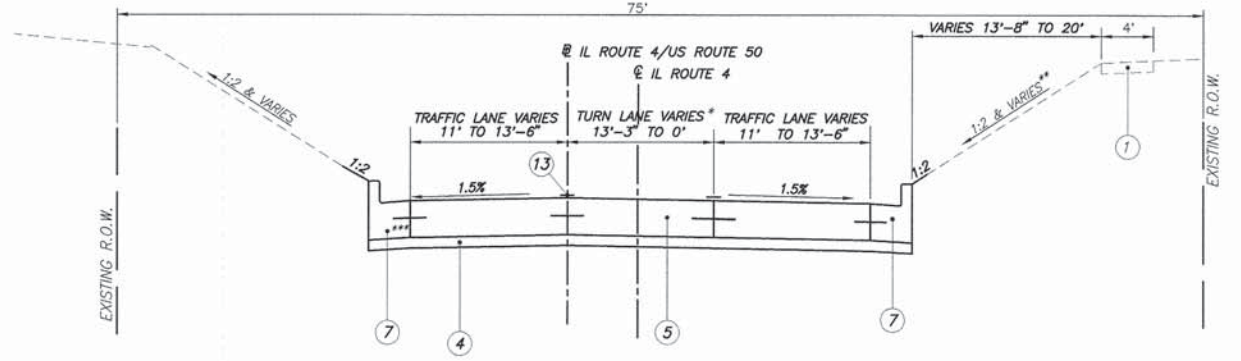
F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	4
F.A.U. ROUTE				
9247	FEDERAL AID PROJECT	CONTRACT 97572		

LEGEND

- | | |
|------------------------------------------------------------|----------------------------------------------------------------------|
| ① EXISTING PCC SIDEWALK (4") | ⑩ PROPOSED BITUMINOUS MATERIALS (PRIME COAT) |
| ② EXISTING BRICK SIDEWALK | ⑪ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N90 (Varies 0-8") |
| ③ | ⑫ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90, 1-1/2" |
| ④ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 4" | ⑬ PROPOSED MODIFIED URETHANE PAVEMENT MARKING, LINE 4" |
| ⑤ PROPOSED P.C.C. PAVEMENT (JOINTED), 9 3/4" | ⑭ PROPOSED THERMOPLASTIC PAVEMENT MARKING, LINE 4" |
| ⑥ PROPOSED PCC SIDEWALK, 4" | |
| ⑦ PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 | |
| ⑧ PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 | |
| ⑨ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH | |

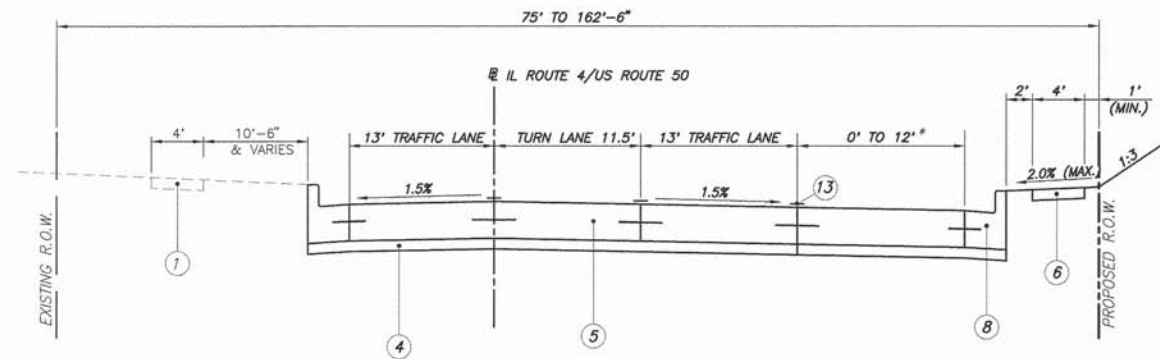
PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: YEAR 2024
 PV= 15,698 SU= 523 MU= 1,221
 ROAD/STREET CLASSIFICATION: ARTERIAL CLASS ROAD: II
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P= 50 S= 50 M= 50
 TRAFFIC FACTOR: Actual TF= 7.66 Minimum TF= 5.51
 PCC THICKNESS - 9.75"
 SUBGRADE SUPPORT RATING: POOR



PROPOSED TYPICAL NORTH LEG

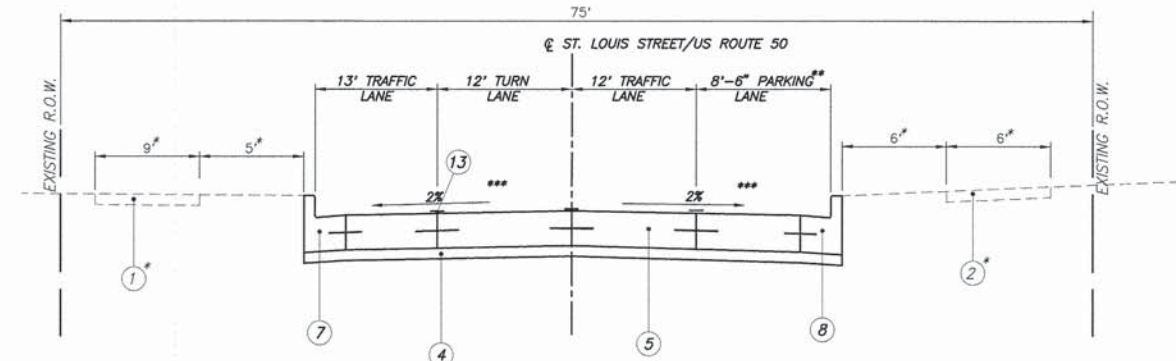
N.T.S.
 ILLINOIS ROUTE 4
 STA. 100+42.23 TO STA. 101+77.18
 * - LEFT TURN LANES END STATION 101+45.56
 ** - EXISTING RIPRAP ON 1:2 SLOPE STA. 101+48.76 TO 101+77.18
 *** - TRANSITION CONCRETE CURB AND GUTTER, TYPE B6.24 TO TYPE B6.12 FROM STA. 100+33.39 TO 100+76.93



PROPOSED TYPICAL SOUTH LEG

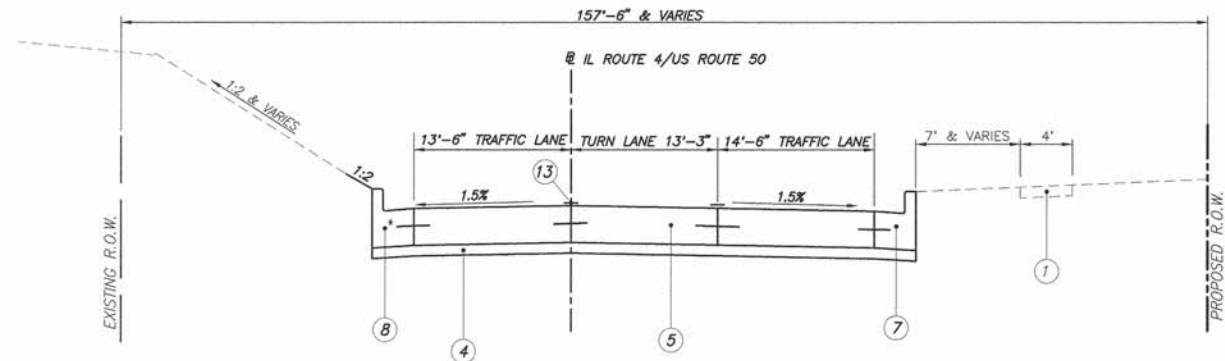
N.T.S.
 ILLINOIS ROUTE 4/US HWY 50
 STA. 95+65.41 TO STA. 98+81.53
 * - BEGIN RIGHT TURN LANE STA. 96+42.11

NOTE: SEE PLAN SHEETS FOR LIMITS OF PCC SIDEWALK CONSTRUCTION



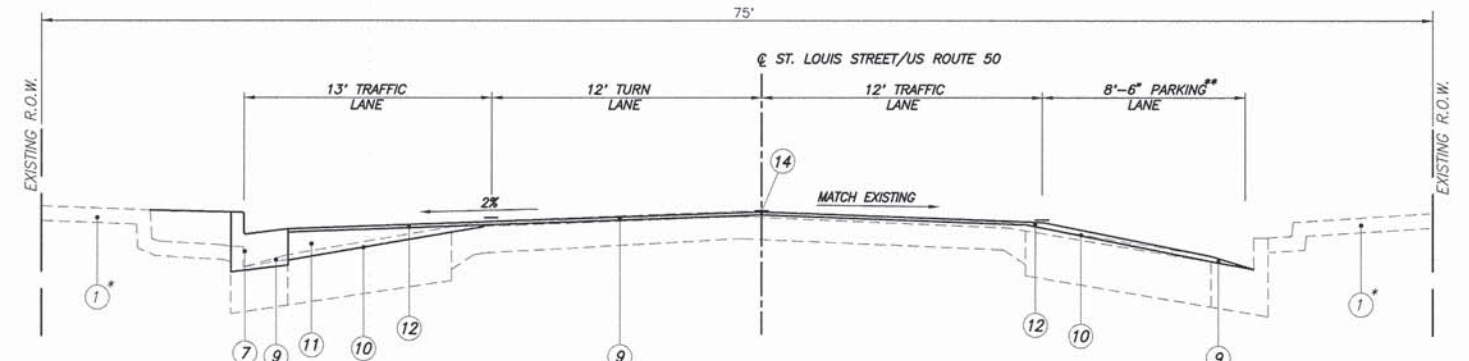
PROPOSED TYPICAL SECTION EAST LEG

N.T.S.
 US HWY 50
 STA. 199+54.39 TO STA. 201+15.40
 * - SEE PLAN SHEET FOR LOCATIONS AND DIMENSIONS OF PCC/BRICK SIDEWALK AND BUFFER WIDTHS
 ** - BEGINS STA. 201+60.00
 *** - SEE CROSS SECTIONS FOR VARIABLE CROSS SLOPES



PROPOSED TYPICAL NORTH LEG

N.T.S.
 ILLINOIS ROUTE 4
 STA. 98+81.53 TO STA. 100+42.23
 ** - TRANSITION CONCRETE CURB AND GUTTER, TYPE B6.24 TO TYPE B6.12 FROM STA. 100+33.39 TO 100+76.93



PROPOSED TYPICAL SECTION EAST LEG

N.T.S.
 US HWY 50
 STA. STA. 201+15.40 TO STA. 203+66.61
 * - SEE PLAN SHEET FOR LOCATIONS AND DIMENSIONS OF PCC/BRICK SIDEWALK AND BUFFER WIDTHS
 ** - BEGINS STA. 201+60.00

PAVEMENT MARKING SCHEDULE

LOCATION	TYPE	THERMOPLASTIC PAVEMENT MARKINGS				MODIFIED URETHANE PAVEMENT MARKINGS					RAISED REFL. PAVEMENT MKRS		
		4" YELLOW	4" WHITE	24" WHITE	LETTERS & SYMBOLS	4" YELLOW	4" WHITE	12" WHITE	24" WHITE	LETTERS & SYMBOLS	ONE-WAY	TWO-WAY	
		FOOT	FOOT	FOOT	SQ. FT.	FOOT	FOOT	FOOT	FOOT	SQ. FT.	CRYSTAL	AMBER	
ILLINOIS ROUTE 4 STATION 99+16.07 TO 101+77.16	SKIP DASH 2' - 6' DOUBLE CENTER LINE LANE LINE STOP BAR CROSS WALK ARROWS					496	30					3	7
WEST ST. LOUIS STREET STATION 198+85.81 TO 199+61.65	DOUBLE CENTER LINE LANE LINE STOP BAR CROSS WALK ARROWS	128	64	32								2	2
EAST ST. LOUIS STREET/US ROUTE 50 STATION 200+37.65 TO 203+37.64	SKIP DASH 2' - 6' DOUBLE CENTER LINE LANE LINE PARKING LANE LINE STOP BAR CROSS WALK ARROWS		22									6	9
MADISON STREET/ILLINOIS ROUTE 4/US ROUTE 50 STATION 95+65.41 TO 99+43.58	SKIP DASH 2' - 6' SKIP DASH 10' - 30' DOUBLE CENTER LINE LANE LINE STOP BAR CROSS WALK ARROWS					60	18					6	9
TOTAL		636	439	32	31.2	1244	459	557	108	140.4		17	27

PAVING SCHEDULE

STATION	SUBBASE GRAN MATERIAL A 4" SQ YD	PCC PVM'T (JOINTED) 9 3/4" SQ YD	PAVEMENT FABRIC SQ YD	PAVEMENT REMOVAL SQ YD	HMA SURFACE REMOVAL, VAR. DEPTH SQ YD	BITUMINOUS MATERIALS PRIME COAT POUND	HMA BINDER CRSE IL 19.0, MIX D TON	HMA SURFACE CRSE MIX D, N90 TON
95+65.41 to 101+77.16	4,047	3,673	3,673	3,270	-----	-----	-----	-----
95+65.41 to 101+77.16	-----	-----	-----	-----	1143	514	28	104
TOTAL	4,047	3,673	3,673	3,270	1143	514	28	104

ENTRANCE / SIDEROAD SCHEDULE

STATION	EXISTING SURFACE	TYPE	"L"	"W"	DRIVEWAY PVM'T REMOVAL	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGG. BASE COURSE, TY B, 8"	PCC DRIVEWAY PAVEMENT, 6"
			FOOT	FOOT	SQ. YD.	TON	SQ. YD	SQ. YD.
97+10.15 LT.	CONCRETE	ALLEY	28.6	24.0	29.6	-----	-----	29.6
97+16.04 RT.	ASHPALT	ALLEY	28.6	16.8	29.1	18	105*	15.5
100+54.04 RT	OIL & CHIP	ALLEY	24.8	12.9	25.9	-----	-----	43.8
100+56.18 LT.	OIL & CHIP	ALLEY	11.5	18.9	-----	-----	-----	31.7
TOTAL					84.6	18	105	120.6

* QUANTITY INCLUDES GRAVEL PARKING AREA (SEE PLANS)

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION CU YD	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%) CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD	FURNISHED EXCAVATION CU YD
95+65.41 to 101+77.58	1009.3	757.0	8.2	+ 748.8	0.0
200+50 to 201+15.40	244.4	183.3	25.0	+ 158.3	0.0
ALLEY 1+10 to 1+40	304.8	228.6	0.3	+ 228.3	0.0
TOTAL	1558.5	1168.9	33.5	+ 1135.4	0.0

NOTE: REMOVAL OF EXISTING OIL AND CHIP SURFACE AND AGGREGATE HAS BEEN INCLUDED IN THE EARTHWORK QUANTITIES AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU. YD. FOR EARTH EXCAVATION.

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	5
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	
9247				

PROTECTIVE COAT SCHEDULE

LOCATION	PROTECTIVE COAT AREA SQ YD
COMBINATION CURB AND GUTTER, B-6.24	249
COMBINATION CURB AND GUTTER, B-6.12	116
PCC PAVEMENT, 9 3/4"	3,673
TOTAL	4,038

SIDEWALK SCHEDULE

LOCATION	SIDEWALK REMOVAL	PCC SIDEWALK, 4"	DETECTABLE WARNINGS
	SQ FT	SQ FT	SQ FT
NW QUAD	570	553	28
NE QUAD *	1217	807	16
SW QUAD	770	651	24
SE QUAD	1216	1049	18
TOTAL	3793	3060	86

* QUANTITY INCLUDES SIDEWALK/ SIDEWALK REMOVAL NEAR ALLEY STATION 100+54.04 AND STATION 202+36.75 TO STATION 203+38.53.

SURVEY MARKERS

DESCRIPTION/ LOCATION	STATION	OFFSET	DIRECTION	66700205	X6660445
				PERMANENT SURVEY MARKERS, TYPE 1	RIGHT-OF-WAY AND PROPERTY CORNERS
MADISON STREET	95+65.41	PI		1	
MADISON STREET	97+12.53	47.25	RT		1
MADISON STREET	98+07.53	46.85	RT		1
MADISON STREET	98+21.05	33.21	LT		1
MADISON STREET	98+44.52	79.69	RT		1
MADISON STREET	98+46.15	48.31	LT		1
MADISON STREET	98+81.53	PI		1	
MADISON STREET	99+19.58	66.64	RT		1
MADISON STREET	99+21.14	48.35	LT		1
MADISON STREET	99+30.04	33.35	LT		1
MADISON STREET	99+59.72	41.65	RT		1
MADISON STREET	100+39.19	PI		1	
ST LOUIS STREET	202+68.91	PI		1	
TOTAL				4	9

SEEDING / EROSION CONTROL

LOCATION	SEEDING CLASS 1	MULCH METHOD 2	FERTILIZER NUTRIENTS			TEMPORARY EROSION CONTROL SEEDING	EROSION CONTROL BLANKET
	ACRE	ACRE	NITROGEN POUND	PHOSPHORUS POUND	POTASSIUM POUND	POUND	SQ YD
95+65.41 TO 101+77.16	0.15	0.15	13.5	13.5	13.5	15	
100+65.44 TO 101+77.16 LT							60.4
100+61.91 TO 101+77.16 RT							70.7
TOTAL	0.15	0.15	13.5	13.5	13.5	15	131.1

CURB AND GUTTER SCHEDULE

LOCATION	CURB REMOVAL	CURB & GUTTER REMOVAL	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24
	FT	FT	FT	FT
NW QUAD	--	308	100	212
NE QUAD	--	573	559	--
SW QUAD	24*	323	--	310
SE QUAD	121**	364	--	346
TOTAL	145	1568	659	868

* STATION 96+88 to 96+98 LT and 97+21 to 97+31 LT.
** STATION 95+77 to 96+97 RT (LOCATED BEHIND EXISTING CURB & GUTTER).

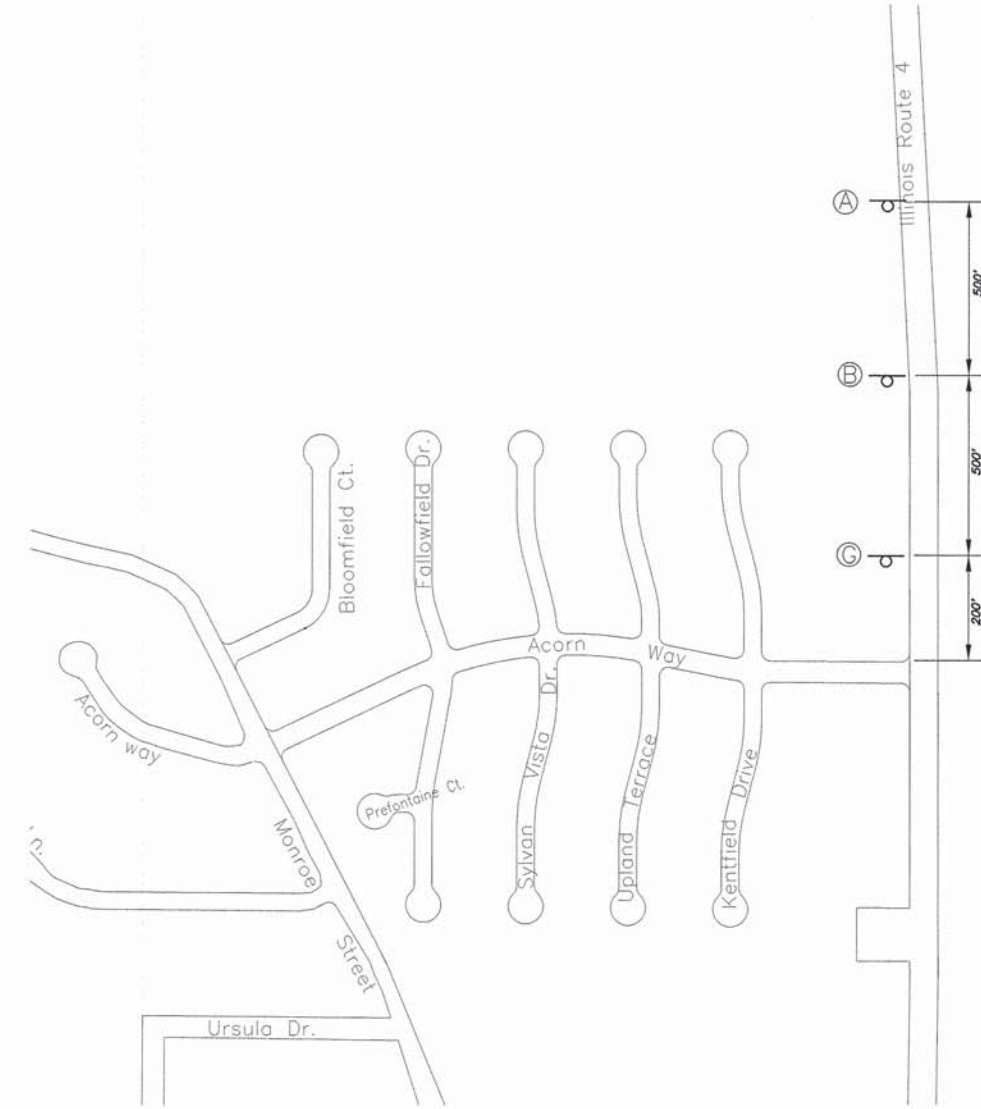
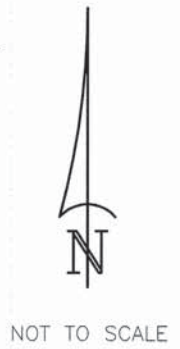
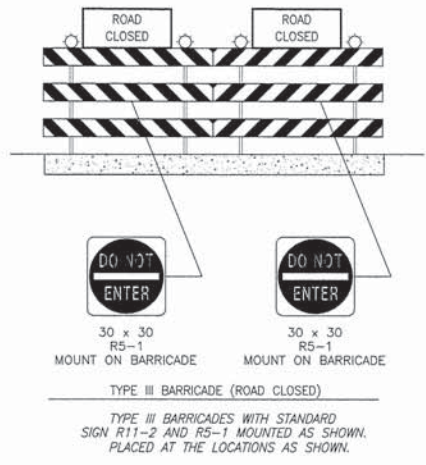
F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	6
F.A.U. ROUTE				
9247	FEDERAL AID PROJECT	CONTRACT 97572		

MAINTENANCE OF TRAFFIC & GENERAL NOTES

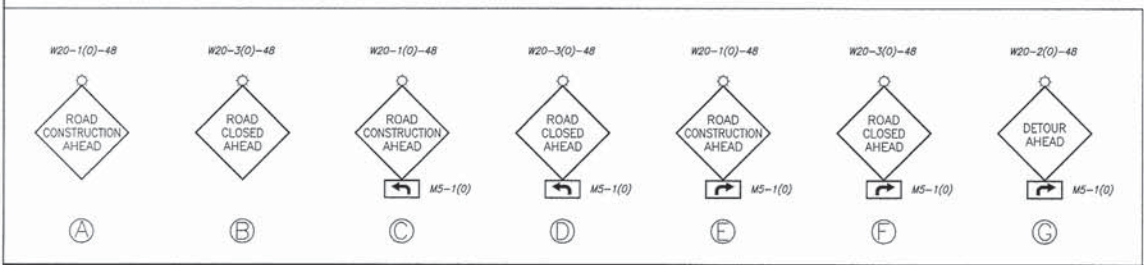
GENERAL
 THE CONTRACTOR SHALL USE TYPE III BARRICADES WITH FLASHING LIGHTS AND SIGNS "ROAD CLOSED" (R11-2) AT ALL CLOSURE POINTS. "ROAD CONSTRUCTION AHEAD" (W20-1(O)) AND "ROAD CLOSED AHEAD" (W20-3(O)) WARNING SIGNS WITH FLASHING LIGHTS SHALL BE PLACED IN CONFORMANCE WITH STANDARD BLR 22-6 AND AS DIRECTED BY THE ENGINEER TO ACCOMMODATE FIELD CONDITIONS.

PAYMENT
 ALL WORK DESCRIBED HEREIN SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION.

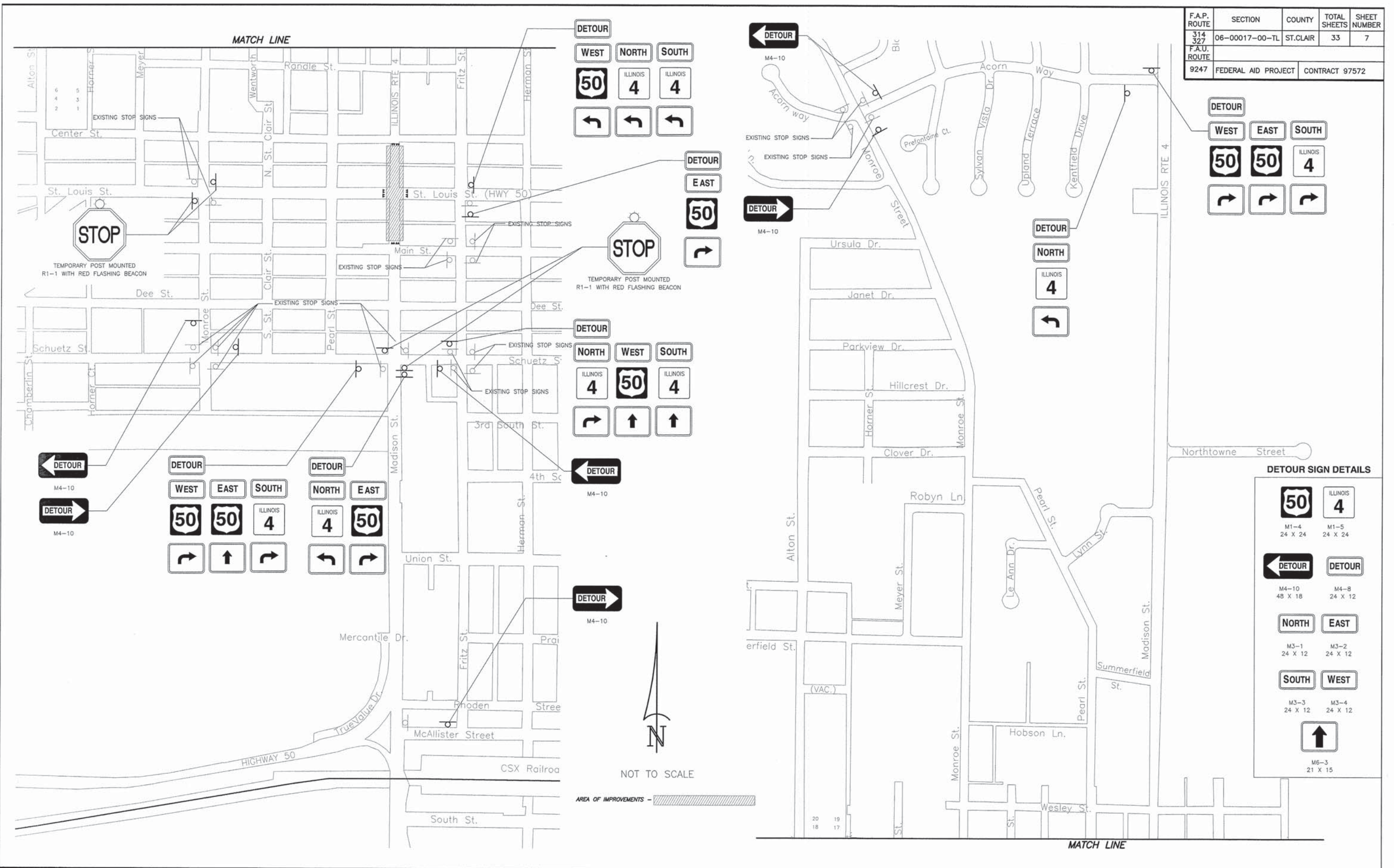
NOTES:
 IF AT ANY TIME SIGNS ARE IN PLACE BUT ARE NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF THE MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.



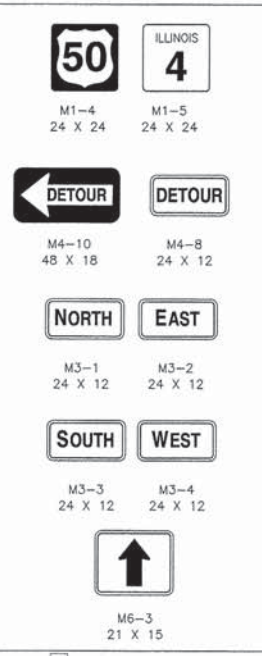
ADVANCED WARNING SIGN DETAILS



F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	7
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	
9247				

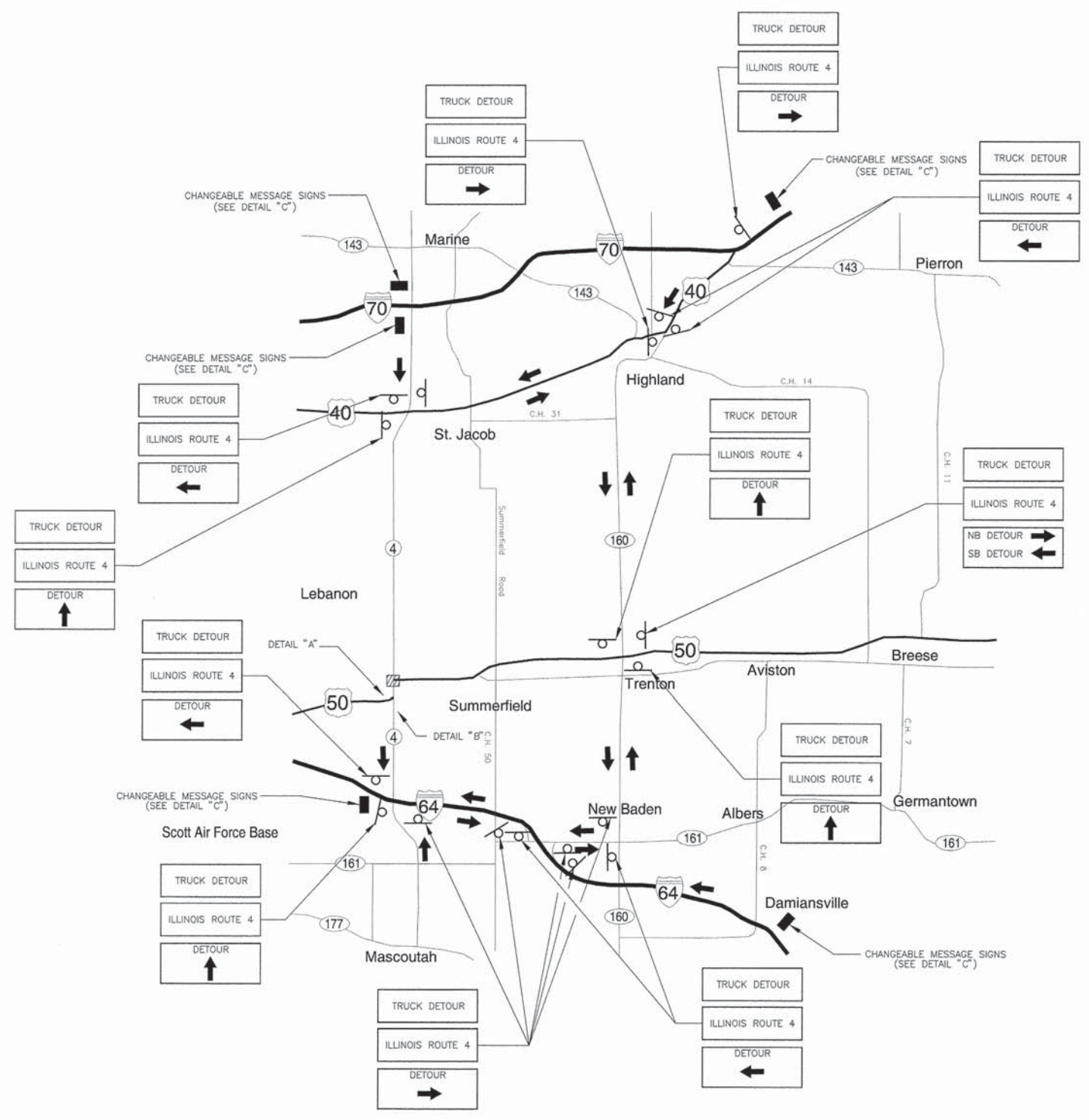


DETOUR SIGN DETAILS



MATCH LINE

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	8
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	



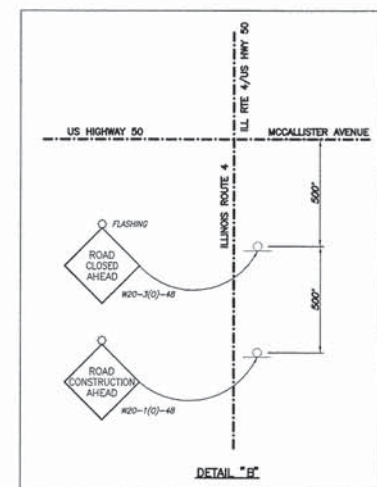
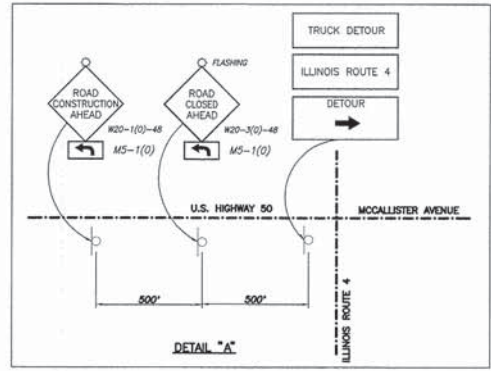
MAINTENANCE OF TRAFFIC & GENERAL NOTES

GENERAL
 ALL COST RELATED TO THE COORDINATION, FURNISHING, ERECTING, MAINTENANCE, AND REMOVAL OF TRUCK ROUTE DETOUR SIGNING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL). ALL COSTS RELATED TO THE COORDINATION, FURNISHING, ERECTING, MAINTENANCE, AND REMOVAL OF THE CHANGEABLE MESSAGE SIGNS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR MONTH FOR CHANGEABLE MESSAGE SIGN.

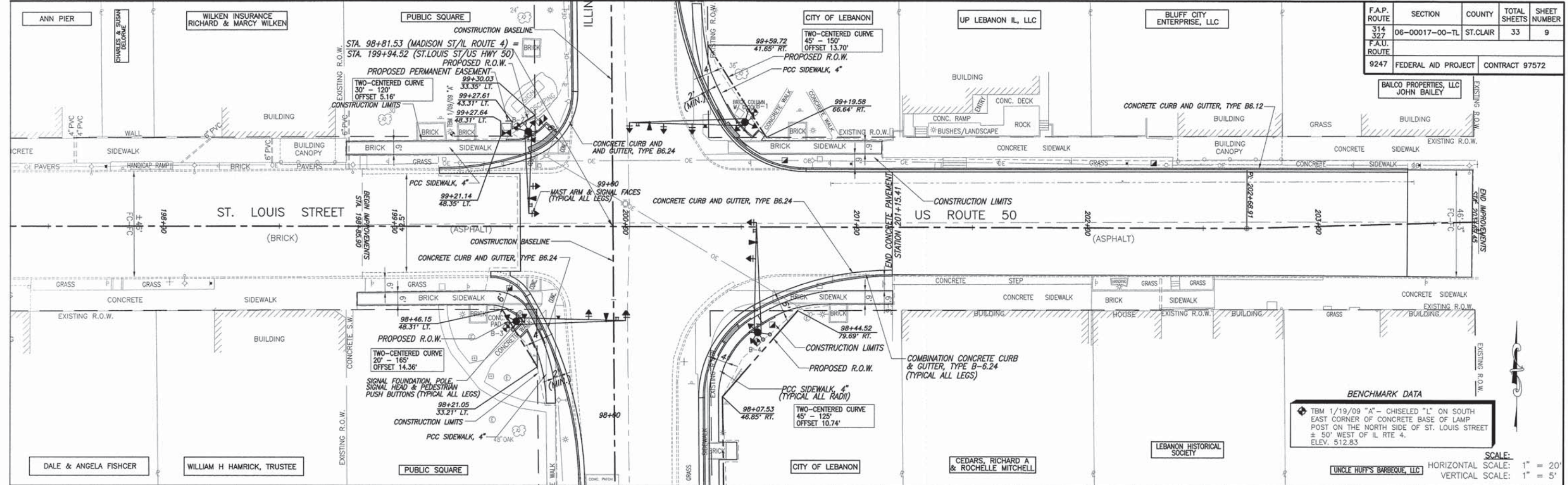
- IL RTE 4 CLOSED LEBANON
- ALL TRUCKS MUST FOLLOW MARKED DETOUR

DETAIL "C"

AREA OF IMPROVEMENTS - [Hatched Box]

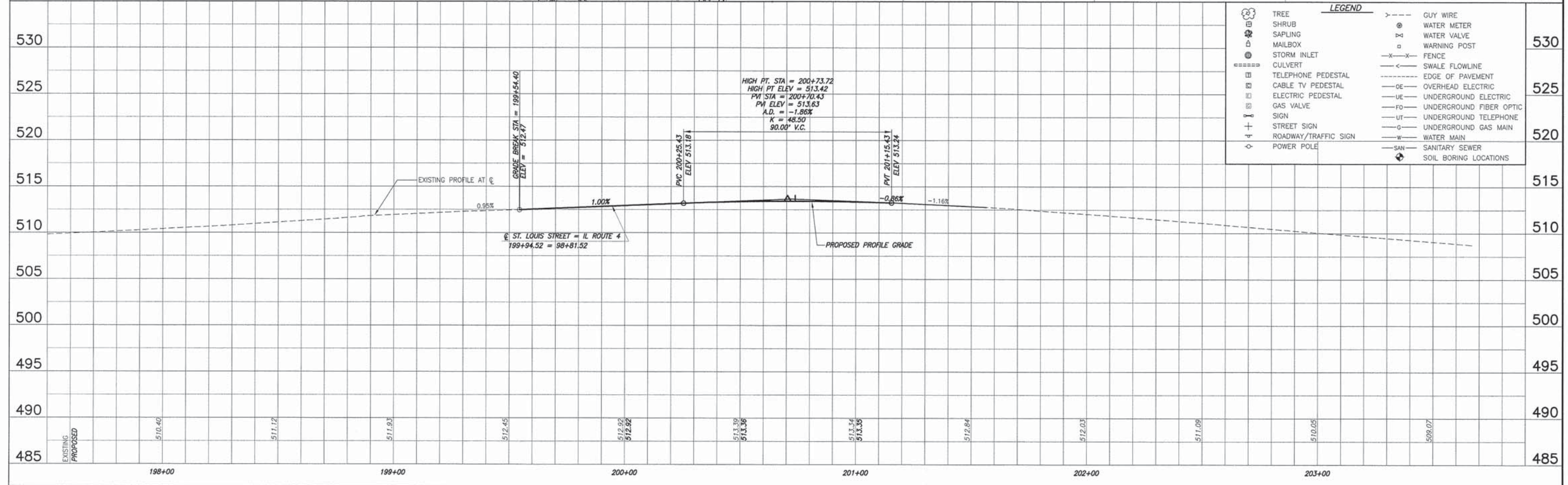


F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	9
F.A.U. ROUTE	9247 FEDERAL AID PROJECT		CONTRACT 97572	



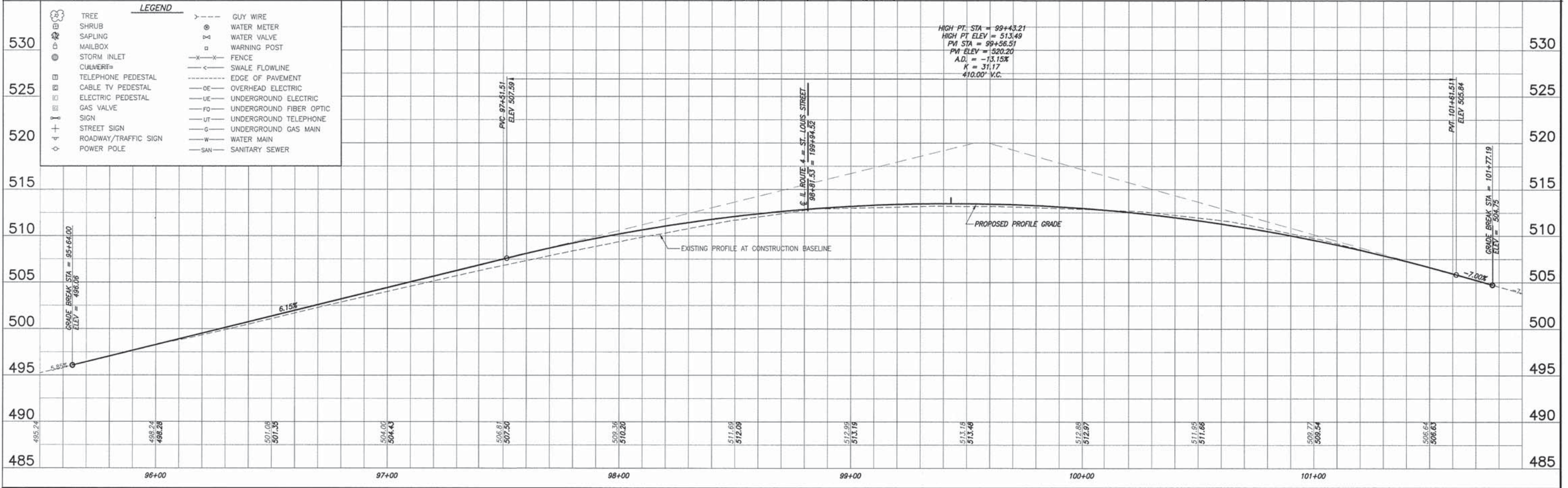
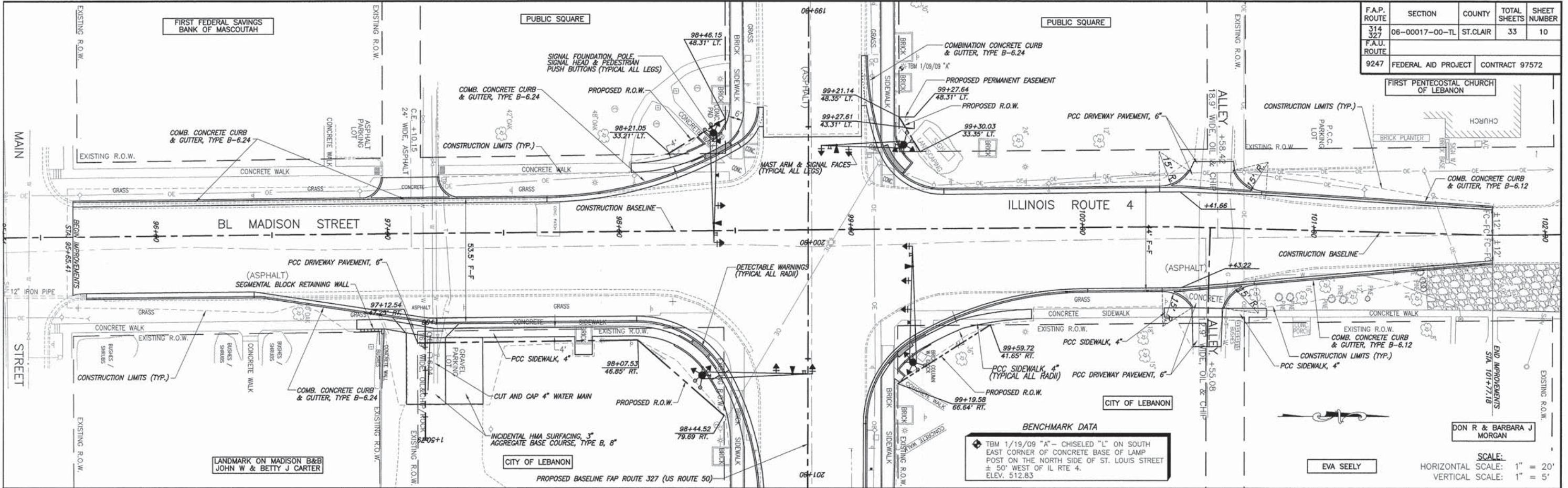
BENCHMARK DATA
 TBM 1/19/09 "A" - CHISELED "L" ON SOUTH EAST CORNER OF CONCRETE BASE OF LAMP POST ON THE NORTH SIDE OF ST. LOUIS STREET ± 50' WEST OF IL RTE 4. ELEV. 512.83

SCALE:
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 5'



PLAN AND PROFILE LEBANON INTERSECTION IMPROVEMENTS
 SECTION 06-00017-00-TL ST. CLAIR COUNTY, ILLINOIS

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	10
F.A.U. ROUTE	9247		FEDERAL AID PROJECT	CONTRACT 97572



LEGEND

TREE	--- GUY WIRE
SHRUB	⊙ WATER METER
SAPLING	⊕ WATER VALVE
MAILBOX	⊠ WARNING POST
STORM INLET	--- FENCE
CURB	--- SWALE FLOWLINE
TELEPHONE PEDESTAL	--- EDGE OF PAVEMENT
CABLE TV PEDESTAL	--- OVERHEAD ELECTRIC
ELECTRIC PEDESTAL	--- UNDERGROUND ELECTRIC
GAS VALVE	--- UNDERGROUND FIBER OPTIC
SIGN	--- UNDERGROUND TELEPHONE
STREET SIGN	--- UNDERGROUND GAS MAIN
ROADWAY/TRAFFIC SIGN	--- WATER MAIN
POWER POLE	--- SANITARY SEWER

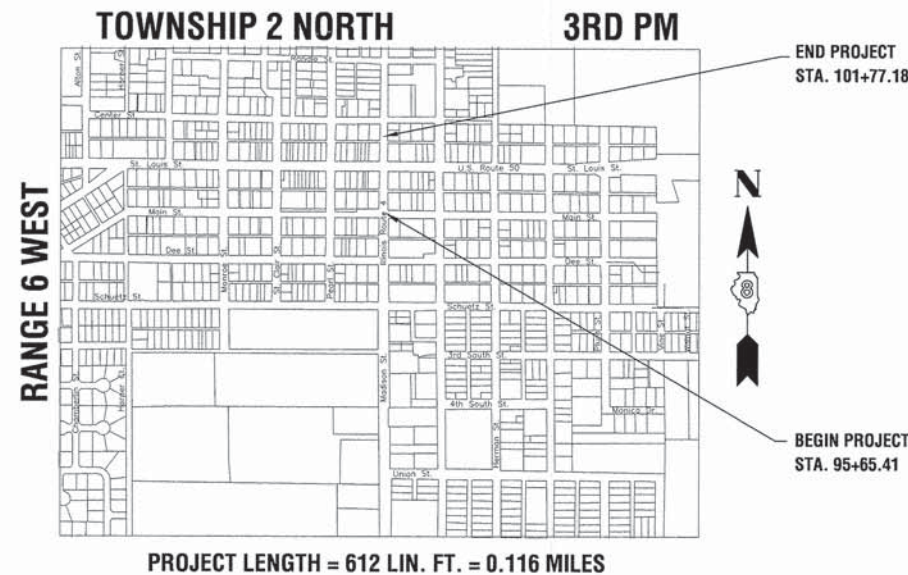
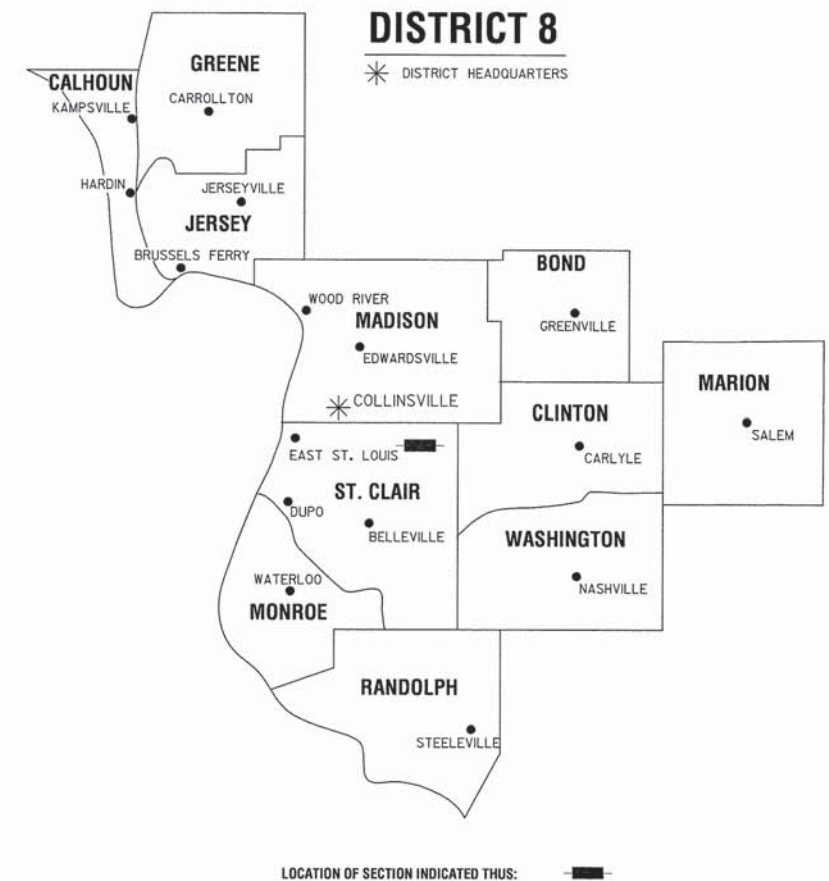
SHEET INDEX		
SHEET NO.	STATION TO STATION	PARCELS
1	COVER SHEET	
2	GENERAL NOTES AND LEGEND	
3	95+65.41 TO 98+81.53	8104006
4	98+81.53 TO 101+77.18	8104007
5	95+65.41 TO 98+81.53	8104008
6	98+81.53 TO 101+77.18	8104009
7	CENTERLINE TIE SHEET	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAT OF HIGHWAYS

FAU ROUTE 9247 (ST. LOUIS STREET)
FAP ROUTE 314 (IL ROUTE 4)
FAP ROUTE 327 (US HIGHWAY 50)
SECTION 06-00017-00-TL
PROJECT NO. CMM-5011(256)
CITY OF LEBANON
ST. CLAIR COUNTY
JOB NO. R-98-004-11

SPACE RESERVED FOR RECORDING OFFICER



PREPARED BY:
RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS
4 INDUSTRIAL DRIVE
FREEBURG, ILLINOIS 62243
(618) 539-3178
IL LICENSE NO. 184-000287

Greg J. Hahn
GREG J. HAHN, PLS #3769
EXPIRATION DATE OF LICENSE: 11/30/2014



SHEET 1 OF 7

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314 327	06-00017-00-TL	ST. CLAIR	33	11
F.A.U. RTE.	STA.	TO STA.		
9247	95+65.41	101+77.18		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 97572				

PART OF SECTION 19, T. 2 N., R. 6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS

SPACE RESERVED FOR RECORDING OFFICER

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

TELEPHONE SPLICE BOX ABOVE GROUND	⊞
UTILITY POWER POLE	⊕
TELEPHONE POLE	⊖
UTILITY TRAFFIC SIGNAL	⊗
UTILITY LIGHT POLE	⊘
FIRE HYDRANT	⊙
UTILITY MANHOLE	⊚
UTILITY TELEPHONE POLE	⊛
UTILITY GUY POLE	⊜
RIP RAP	⊝
INLET	⊞
SHRUB	⊟
DECIDUOUS TREE	⊠
TRAFFIC SIGN	⊡

RIGHT OF WAY LEGEND

---	EXISTING CENTERLINE
---	EXISTING RIGHT OF WAY LINE
---	PROPOSED CENTERLINE
---	PROPOSED RIGHT OF WAY LINE
TT TT TT TT TT TT	PROPOSED PERMANENT EASEMENT LINE
— —	PROPERTY LINE
121.45'	MEASURED DIMENSION
(121.45')	RECORDED DIMENSION
•	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
○	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
+	FOUND CUT CROSS
⊙	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
— —	SAME OWNERSHIP
▭	EXISTING BUILDING

■ STAKING OF PROPOSED RIGHT OF WAY CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER. (PROPOSED RIGHT OF WAY CORNERS SET IN CULTIVATED AREAS SHALL BE A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE).

LEGEND FOR ABBREVIATIONS

BK	BOOK
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
LT	LEFT
N	NORTH
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SO FT	SQUARE FEET
SR	STATE ROUTE
STA	STATION
TWP	TOWNSHIP
W	WEST

PROPOSED PARCEL NUMBER LEGEND

8001001	PROPOSED FEE SIMPLE ACQUISITION
800101P	PROPOSED PERMANENT EASEMENT

TOTAL HOLDING AREA SOURCE TABLE

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

TOPOGRAPHIC STATEMENT

THE TOPOGRAPHY SHOWN HEREON WAS PHYSICALLY LOCATED IN THE FIELD BY THE SURVEYOR DURING THE MONTHS OF JANUARY 2009, DECEMBER 2010, AND MARCH 2011.

BASIS OF COORDINATE & BEARING STATEMENT

THE PROJECT COORDINATES AND BASIS OF BEARING ARE ON AN ASSUMED DATUM.

PREPARED BY:

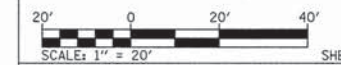


RHUTASEL and ASSOCIATES, INC.
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IL LICENSE NO. 184-000287

Greg J. Hahn 11/18/14
GREG J. HAHN, PLS #3769
EXPIRATION DATE OF LICENSE: 11/30/2014



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAU ROUTE 9247 (ST. LOUIS STREET)
FAP ROUTE 314 (IL ROUTE 4)
FAP ROUTE 327 (US HIGHWAY 50)
SECTION 06-00017-00-TL
ST. CLAIR COUNTY
JOB NO. R-98-004-11
GENERAL NOTES AND LEGEND



SHEET 2 OF 7

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

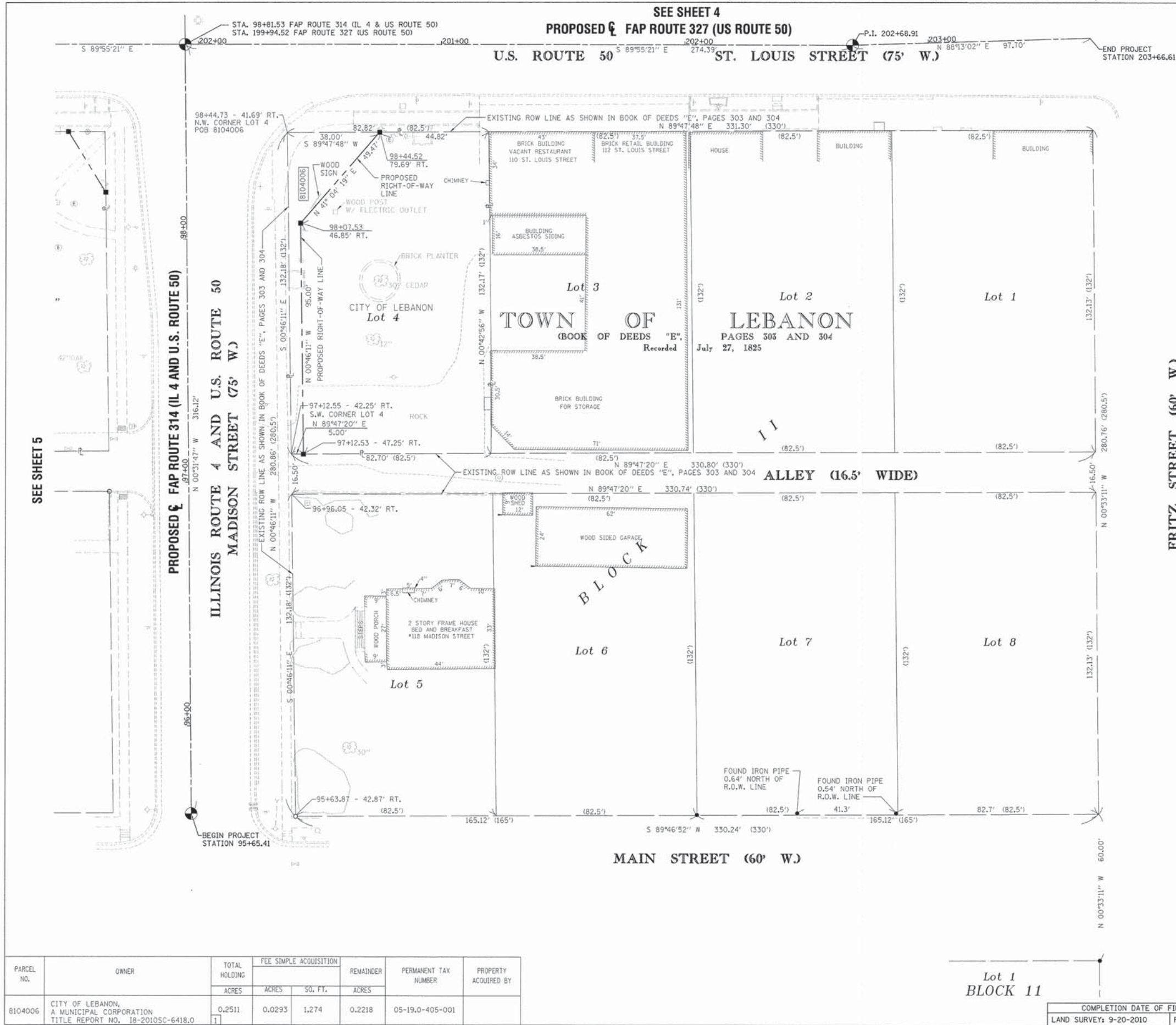
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	06-00017-00-TL	ST. CLAIR	33	12
327				
9247				

FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT
CONTRACT NO. 97572

PART OF THE S.E. 1/4 OF SECTION 19, T. 2 N., R. 6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS

SEE SHEET 4

PROPOSED $\frac{1}{2}$ FAP ROUTE 327 (US ROUTE 50)



SPACE RESERVED FOR RECORDING OFFICER

COORDINATES SHOWN HEREON ARE ASSUMED
BEARINGS SHOWN HEREON ARE ASSUMED

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
95+65.41	CL	14722.6135	30032.8781
97+12.53	47.25' RT.	14870.1604	30078.7619
98+07.53	46.85' RT.	14965.1518	30077.4859
98+44.52	79.69' RT.	15002.4444	30109.9860
98+81.53	CL	15038.7201	30029.9547
199+94.52			
202+68.91	CL	15038.3490	30304.3456
203+66.61	CL	15041.3887	30402.0031

STATE OF ILLINOIS)
) SS
COUNTY OF ST. CLAIR)

I, GREG J. HAHN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 11/16/14
GREG J. HAHN, PLS NO. 3769
LICENSE EXPIRATION DATE: 11/30/2014



RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS
4 INDUSTRIAL DRIVE • FREEBURG, IL 62243
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ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAU ROUTE 9247 (ST. LOUIS STREET)
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SECTION 06-00017-00-TL
ST. CLAIR COUNTY
JOB NO. R-98-004-11

STATION 95+65.41 TO STATION 98+81.53
SCALE: 1" = 20'
SHEET 3 OF 7

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

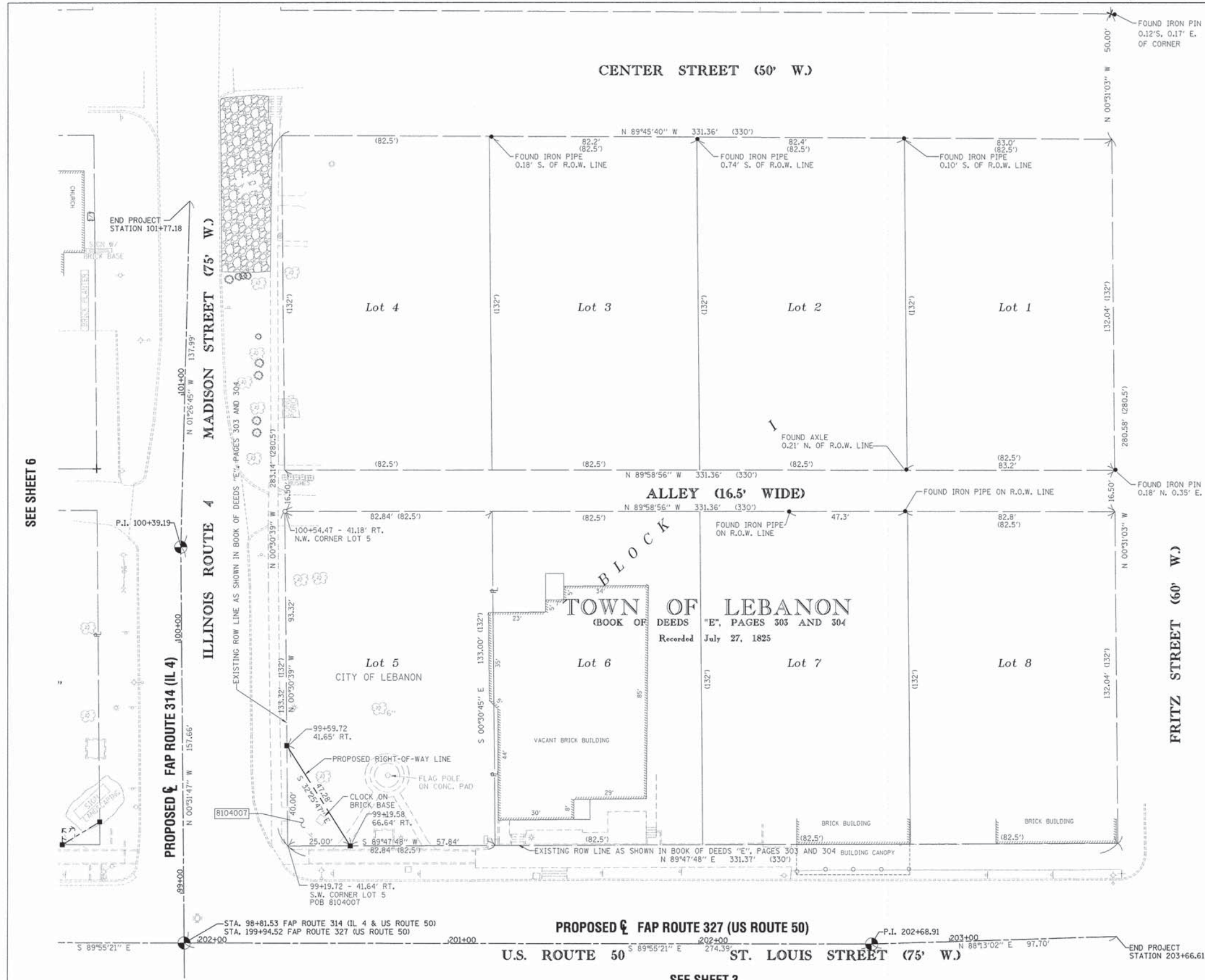
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	06-00017-00-TL	ST. CLAIR	33	13
327				
9247				

COMPLETION DATE OF FIELD WORK PERFORMED		FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	
LAND SURVEY: 9-20-2010	ROW STAKING: 6-27-2014	CONTRACT NO. 97572	

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.			
8104006	CITY OF LEBANON, A MUNICIPAL CORPORATION TITLE REPORT NO. 18-2010SC-6418.0	0.2511	0.0293	1,274	0.2218	05-19.0-405-001	

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PART OF THE S.E. 1/4 OF SECTION 19, T. 2 N., R. 6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS



N

 SPACE RESERVED FOR RECORDING OFFICER

COORDINATES SHOWN HEREON ARE ASSUMED
 BEARINGS SHOWN HEREON ARE ASSUMED

COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	
98+81.53	CL	15038.7201	30029.9547	
199+94.52				
99+19.58	66.64' RT.	15077.3949	30096.2409	
99+19.72	41.64' RT.	15077.3062	30071.2411	
99+59.72	41.65' RT.	15117.3046	30070.8844	
100+39.19	CL	15196.3864	30028.4967	
101+77.18	CL	15334.3302	30031.9780	
202+68.91	CL	15038.3490	30304.3456	
203+66.61	CL	15041.3887	30402.0031	

STATE OF ILLINOIS)
) SS
 COUNTY OF ST. CLAIR)
 I, GREG J. HAHN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.
 DATED 11/16/14

 GREG J. HAHN, PLS NO. 3769
 LICENSE EXPIRATION DATE: 11/30/2014

RHUTASEL and ASSOCIATES, INC.
 CONSULTING ENGINEERS • LAND SURVEYORS
 4 INDUSTRIAL DRIVE FREEBURG, IL 62243
 (618) 539-3178
 IL. LICENSE NO. 184-000287

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PLAT OF HIGHWAYS
 FAU ROUTE 9247 (ST. LOUIS STREET)
 FAP ROUTE 314 (IL ROUTE 4)
 FAP ROUTE 327 (US HIGHWAY 50)
 SECTION 06-00017-00-TL
 ST. CLAIR COUNTY
 JOB NO. R-98-004-11

STATION 98+81.53 TO STATION 101+77.18

 SCALE: 1" = 20'
 SHEET 4 OF 7

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINGSVILLE, ILLINOIS 62234-6198

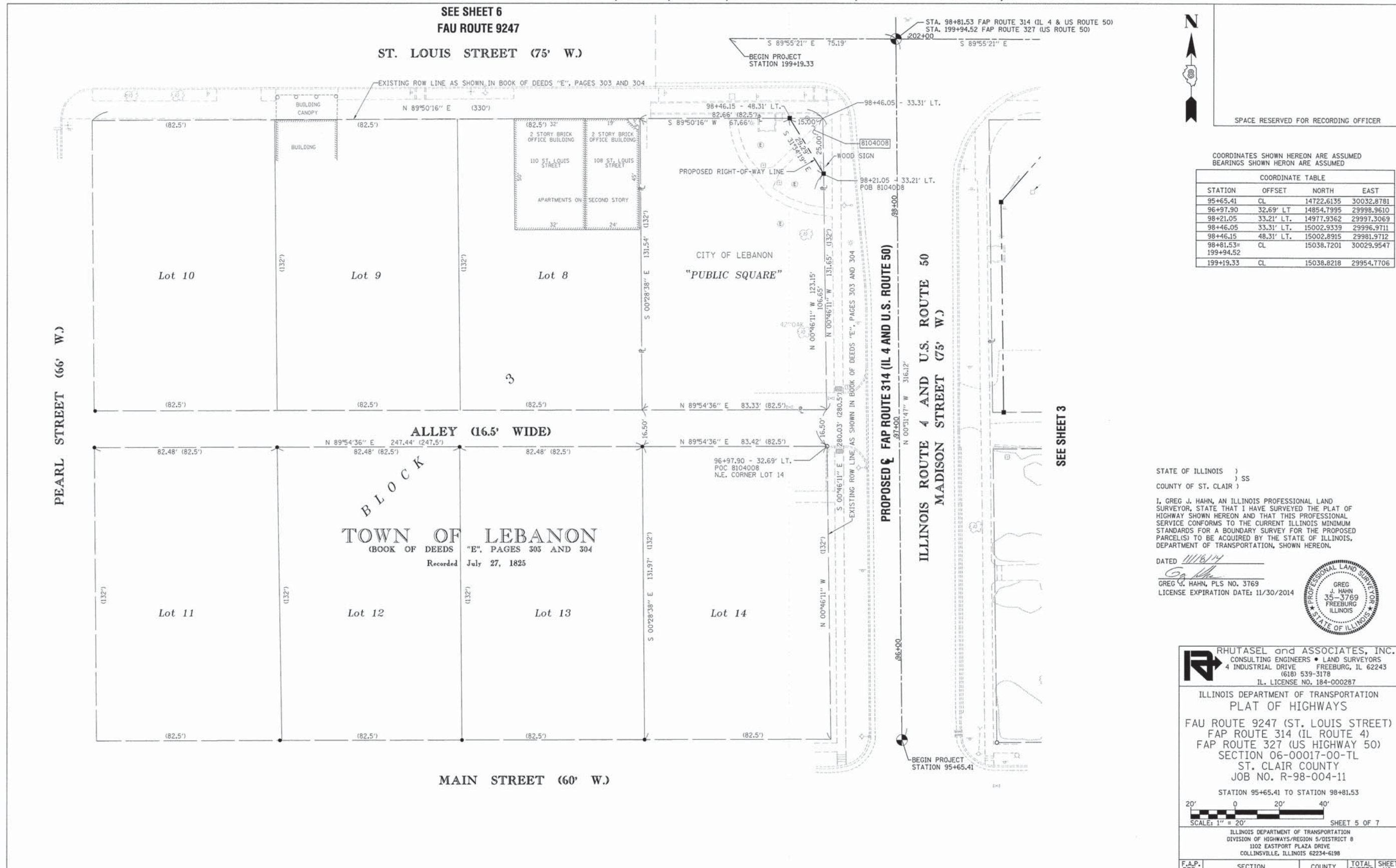
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	06-00017-00-TL	ST. CLAIR	33	14
F.A.U. RTE.				
9247				

COMPLETION DATE OF FIELD WORK PERFORMED
 LAND SURVEY: 9-20-2010 ROW STAKING: 6-27-2014
 FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT
 CONTRACT NO. 97572

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.			
8104007	CITY OF LEBANON, A MUNICIPAL CORPORATION TITLE REPORT NO. 18-2010SC-6419.0	0.2532	0.0115	500	0.2417	05-19.0-400-006	

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PART OF THE S.W. 1/4 OF SECTION 19, T. 2 N., R. 6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS



COORDINATE TABLE
COORDINATES SHOWN HEREON ARE ASSUMED
BEARINGS SHOWN HEREON ARE ASSUMED

STATION	OFFSET	NORTH	EAST
95+65.41	CL	14722.6135	30032.8781
96+97.90	32.69' LT	14854.7995	29998.9610
98+21.05	33.21' LT.	14977.9362	29997.3069
98+46.05	33.31' LT.	15002.9339	29996.9711
98+46.15	48.31' LT.	15002.8915	29981.9712
98+81.53	CL	15038.7201	30029.9547
199+94.52	CL	15038.8218	29954.7706

STATE OF ILLINOIS)
) SS
COUNTY OF ST. CLAIR)

I, GREG J. HAHN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 11/16/14

GREG J. HAHN, PLS NO. 3769
LICENSE EXPIRATION DATE: 11/30/2014



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ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAU ROUTE 9247 (ST. LOUIS STREET)
FAP ROUTE 314 (IL ROUTE 4)
FAP ROUTE 327 (US HIGHWAY 50)
SECTION 06-00017-00-TL
ST. CLAIR COUNTY
JOB NO. R-98-004-11
STATION 95+65.41 TO STATION 98+81.53
SCALE: 1" = 20'

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	06-00017-00-TL	ST. CLAIR	33	15
327				
F.A.U. RTE.				
9247				

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

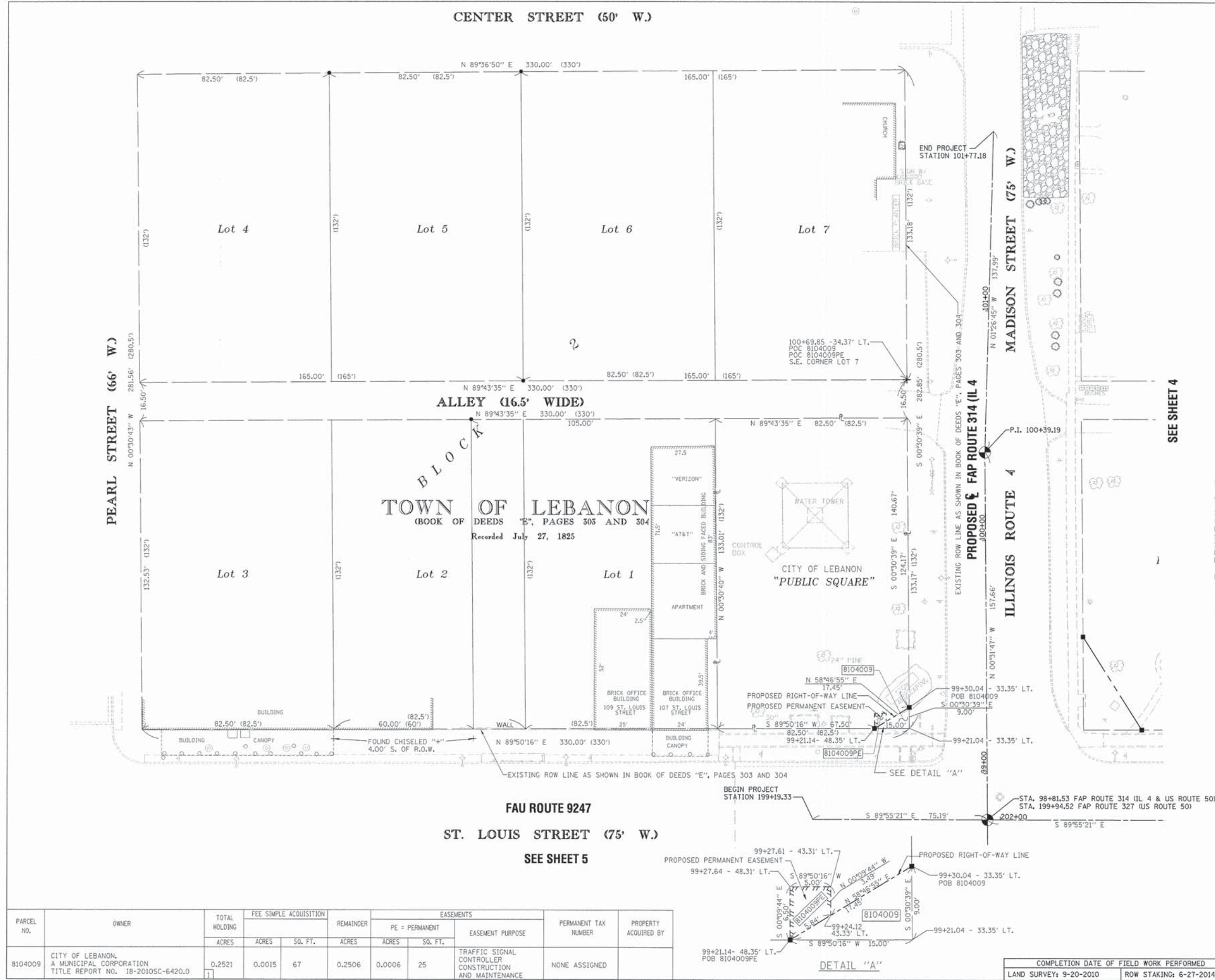
COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: 9-20-2010 ROW STAKING: 6-27-2014

FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT
CONTRACT NO. 97572

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.			
8104008	CITY OF LEBANON, A MUNICIPAL CORPORATION TITLE REPORT NO. 18-2010SC-6421.0	0.2507	0.0043	187	0.2464	NONE ASSIGNED	

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PART OF THE S.W. 1/4 OF SECTION 19, T. 2 N., R. 6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS



SPACE RESERVED FOR RECORDING OFFICER

COORDINATES SHOWN HEREON ARE ASSUMED
BEARINGS SHOWN HEREON ARE ASSUMED

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
98+81.53=	CL	15038.7201	30029.9547
199+94.52			
99+21.04	33.35' LT.	15077.9321	29996.2424
99+21.14	48.35' LT.	15077.8897	29981.2424
99+24.12	43.33' LT.	15080.9148	29986.2339
99+27.61	43.31' LT.	15084.4038	29986.2240
99+27.64	48.31' LT.	15084.3897	29981.2241
99+30.04	33.35' LT.	15086.9318	29996.1621
99+30.04	33.35' LT.	15086.9318	29996.1621
100+39.19	CL	15196.3864	30028.4967
100+69.85	34.37' LT.	15227.6011	29994.9078
101+77.18	CL	15334.3302	30031.9780
199+19.33	CL	15038.8218	29954.7706

STATE OF ILLINOIS)
COUNTY OF ST. CLAIR) SS

I, GREG J. HAHN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 11/10/14

GREG J. HAHN, PLS NO. 3769
LICENSE EXPIRATION DATE: 11/30/2014



RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS
4 INDUSTRIAL DRIVE • FREEBURG, IL 62243
(618) 539-3178
IL LICENSE NO. 184-000287

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAU ROUTE 9247 (ST. LOUIS STREET)
FAP ROUTE 314 (IL ROUTE 4)
FAP ROUTE 327 (US HIGHWAY 50)
SECTION 06-00017-00-TL
ST. CLAIR COUNTY
JOB NO. R-98-004-11

STATION 98+81.53 TO STATION 101+77.18
SCALE: 1" = 20'

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	06-00017-00-TL	ST. CLAIR	33	16
F.A.U. RTE.				
9247				

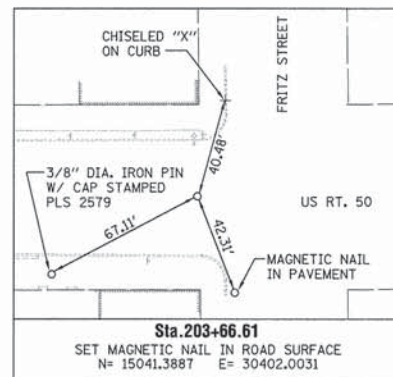
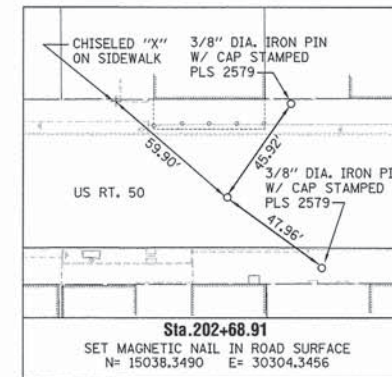
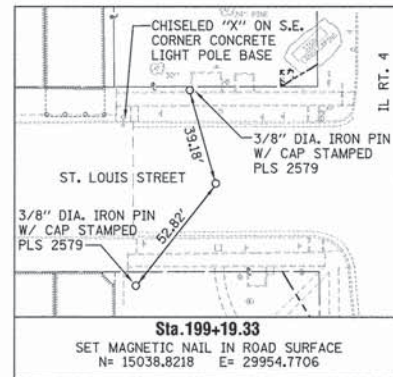
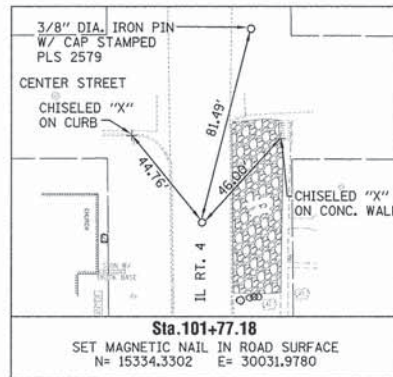
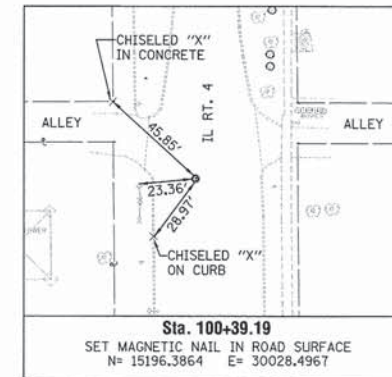
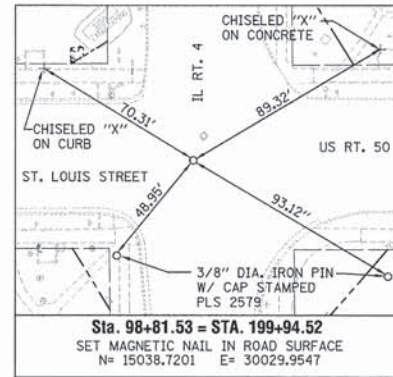
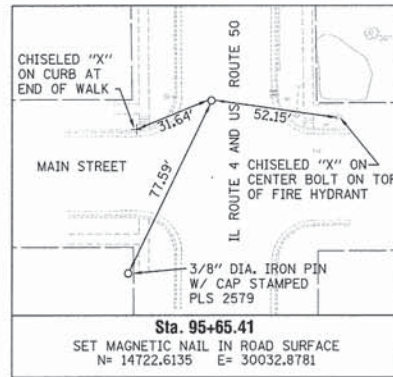
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT
CONTRACT NO. 97572

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.		PE = PERMANENT ACRES	EASEMENT PURPOSE SQ. FT.		
8104009	CITY OF LEBANON, A MUNICIPAL CORPORATION TITLE REPORT NO. 18-2010SC-6420.0	0.2521	0.0015	67	0.2506	0.0006	25	NONE ASSIGNED	



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CENTERLINE TIE SHEET



SPACE RESERVED FOR RECORDING OFFICER

STATE OF ILLINOIS)
) SS
COUNTY OF ST. CLAIR)

I, GREG J. HAHN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 11/16/14
GREG J. HAHN, PLS NO. 3769
LICENSE EXPIRATION DATE: 11/30/2014



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ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAU ROUTE 9247 (ST. LOUIS STREET)
FAP ROUTE 314 (IL ROUTE 4)
FAP ROUTE 327 (US HIGHWAY 50)
SECTION 06-00017-00-TL
ST. CLAIR COUNTY
JOB NO. R-98-004-11
CENTERLINE TIE SHEET

NOT TO SCALE SHEET 7 OF 7

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	06-00017-00-TL	ST. CLAIR	33	17
F.A.U. RTE.				
9247				

FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT
CONTRACT NO. 97572

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	18
F.A.U. ROUTE		CONTRACT		
9247		FEDERAL AID PROJECT 97572		



N.W. QUADRANT

STATION	OFFSET TO E.O.P.	ELEVATION	DISTANCE ALONG ARC
199+19.33	22.80' LT.	511.86	0.0
199+29.32	23.27' LT.	511.96	10.0
199+39.23	24.58' LT.	512.06	20.0
199+49.00	26.70' LT.	512.16	30.0
199+58.56	29.63' LT.	512.39	40.0
99+11.92	35.64' LT.	512.41	40.70
99+16.25	26.76' LT.	512.62	50.0
99+23.49	19.87' LT.	512.84	60.0
99+32.60	15.76' LT.	513.07	70.00
99+40.28	14.77' LT.	513.25	77.77

N.E. QUADRANT

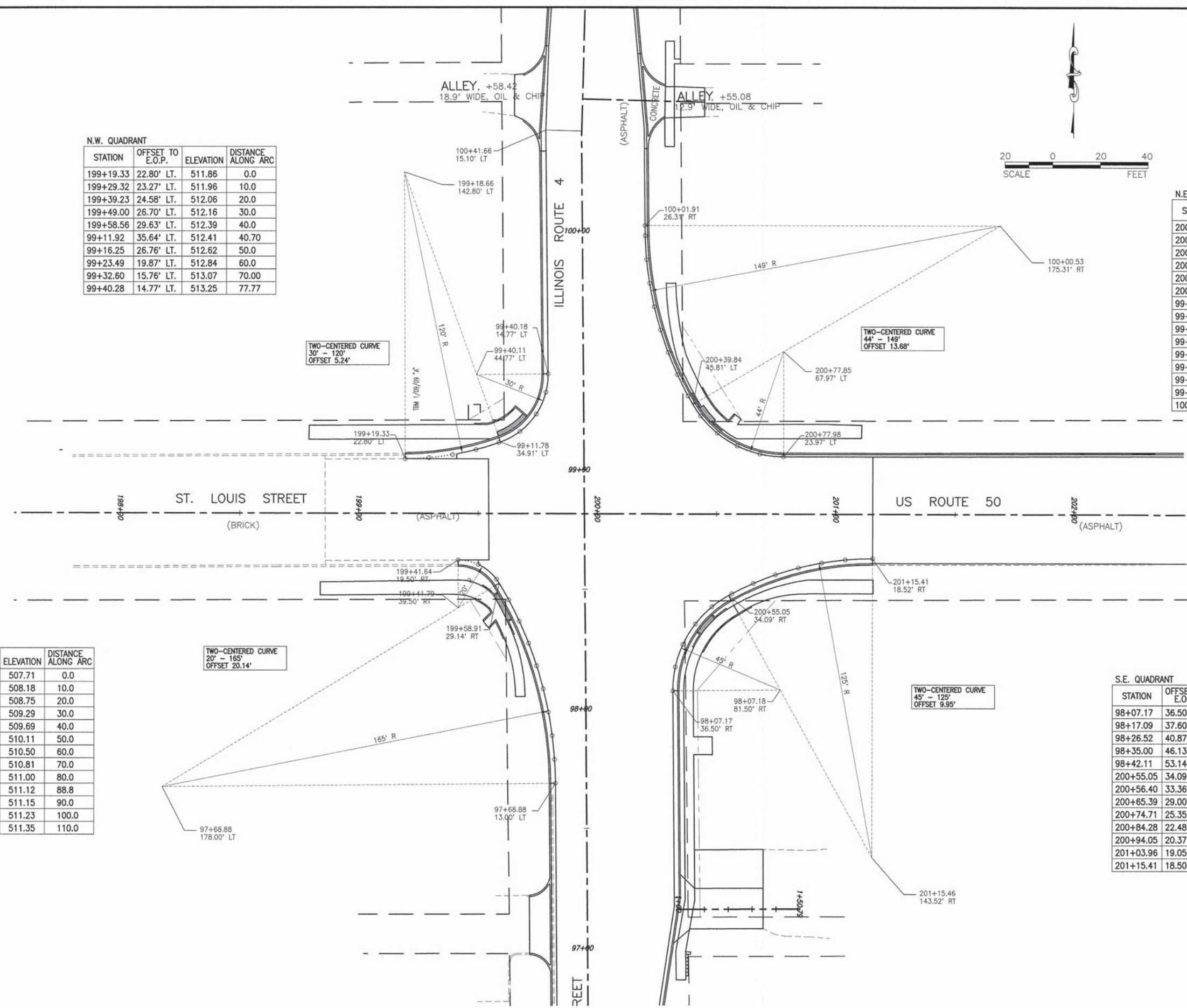
STATION	OFFSET TO E.O.P.	ELEVATION	DISTANCE ALONG ARC
200+77.98	24.00' LT.	512.96	0.0
200+67.97	25.09' LT.	512.99	10.0
200+58.54	28.43' LT.	513.02	20.0
200+50.12	33.81' LT.	513.05	30.0
200+43.12	40.96' LT.	513.08	40.0
200+39.84	45.81' LT.	513.10	45.86
99+30.48	43.80' RT.	513.11	50.0
99+39.46	39.40' RT.	513.02	60.0
99+48.71	35.61' RT.	512.93	70.0
99+58.20	32.45' RT.	512.84	80.0
99+67.88	29.93' RT.	512.76	90.0
99+77.70	28.07' RT.	512.67	100.0
99+87.63	26.87' RT.	512.58	110.0
99+97.62	26.34' RT.	512.49	120.0
100+01.91	26.31' RT.	512.44	124.29

S.W. QUADRANT

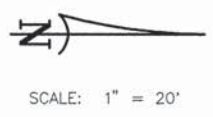
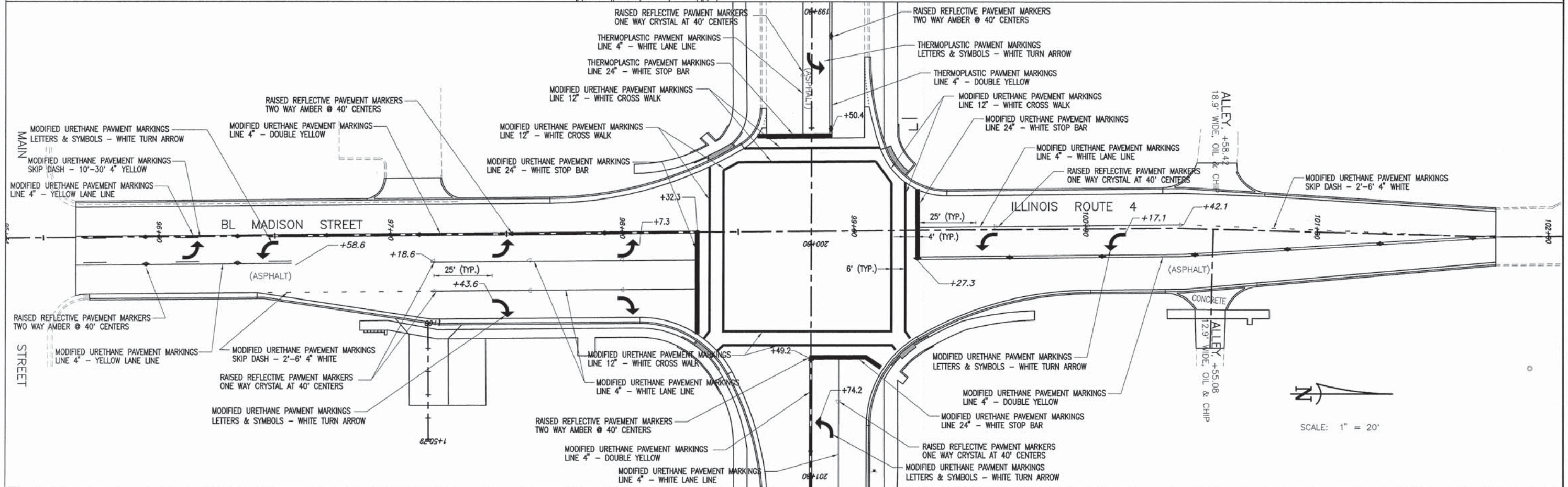
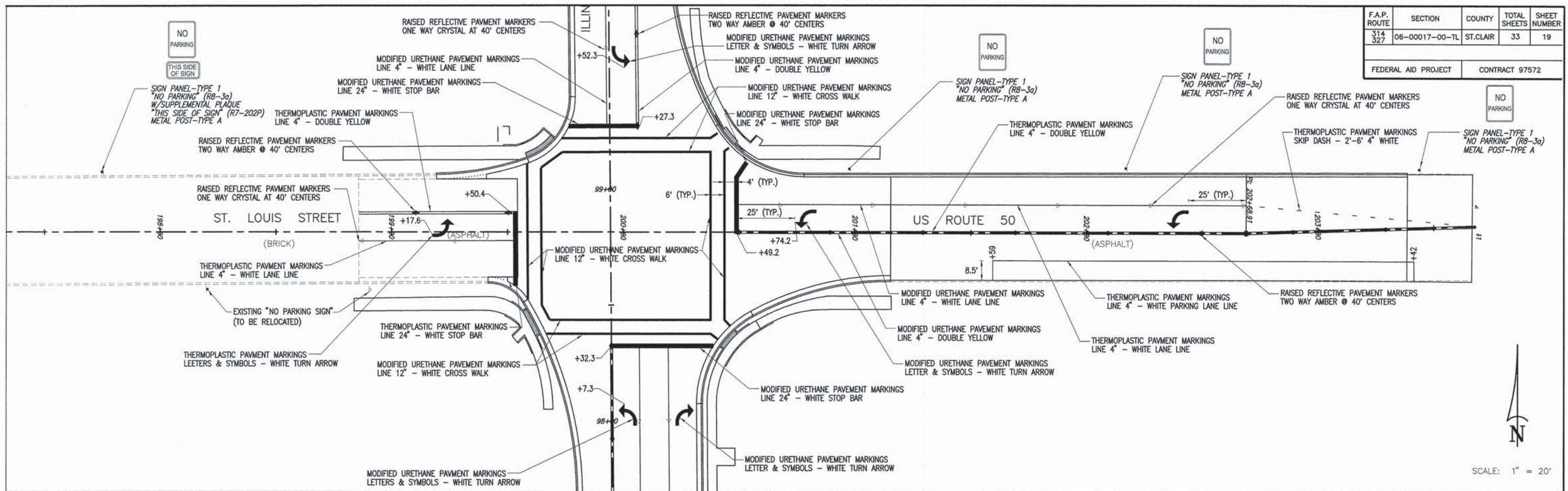
STATION	OFFSET TO E.O.P.	ELEVATION	DISTANCE ALONG ARC
97+68.88	13.00' LT.	507.71	0.0
97+78.87	13.30' LT.	508.18	10.0
97+88.83	14.21' LT.	508.75	20.0
97+98.71	15.72' LT.	509.29	30.0
98+08.49	17.82' LT.	509.69	40.0
98+18.12	20.52' LT.	510.11	50.0
98+27.56	23.79' LT.	510.50	60.0
98+36.80	27.63' LT.	510.81	70.0
98+45.78	32.02' LT.	511.00	80.0
199+58.91	29.14' RT.	511.12	88.8
199+57.79	27.49' RT.	511.15	90.0
199+50.07	21.29' RT.	511.23	100.0
199+41.64	19.50' RT.	511.35	110.0

S.E. QUADRANT

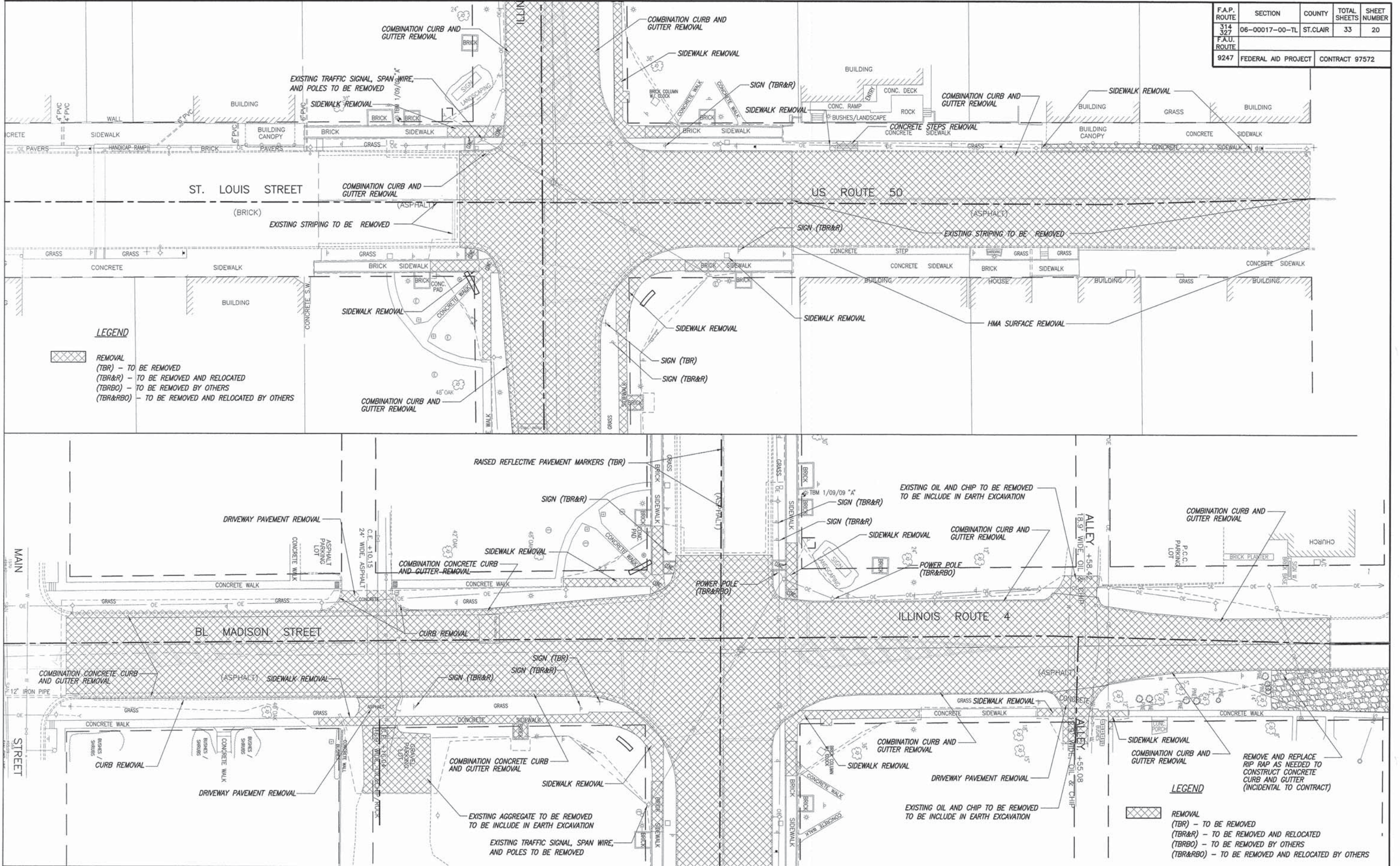
STATION	OFFSET TO E.O.P.	ELEVATION	DISTANCE ALONG ARC
98+07.17	36.50' RT.	509.55	0.0
98+17.09	37.60' RT.	510.09	10.0
98+26.52	40.87' RT.	510.63	20.0
98+35.00	46.13' RT.	511.17	30.0
98+42.11	53.14' RT.	511.41	40.0
200+55.05	34.09' RT.	511.61	48.47
200+56.40	33.36' RT.	511.65	50.0
200+65.39	29.00' RT.	511.89	60.0
200+74.71	25.35' RT.	512.13	70.0
200+84.28	22.48' RT.	512.37	80.0
200+94.05	20.37' RT.	512.61	90.0
201+03.96	19.05' RT.	512.54	100.0
201+15.41	18.50' RT.	512.50	111.46



F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	19
FEDERAL AID PROJECT		CONTRACT 97572		

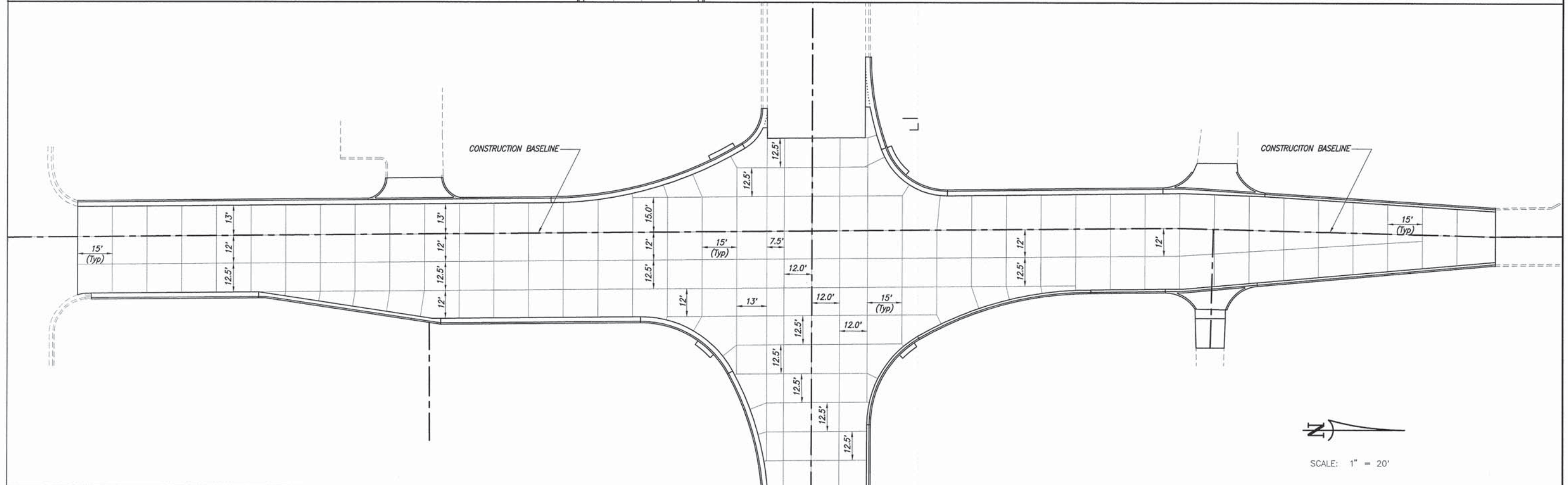
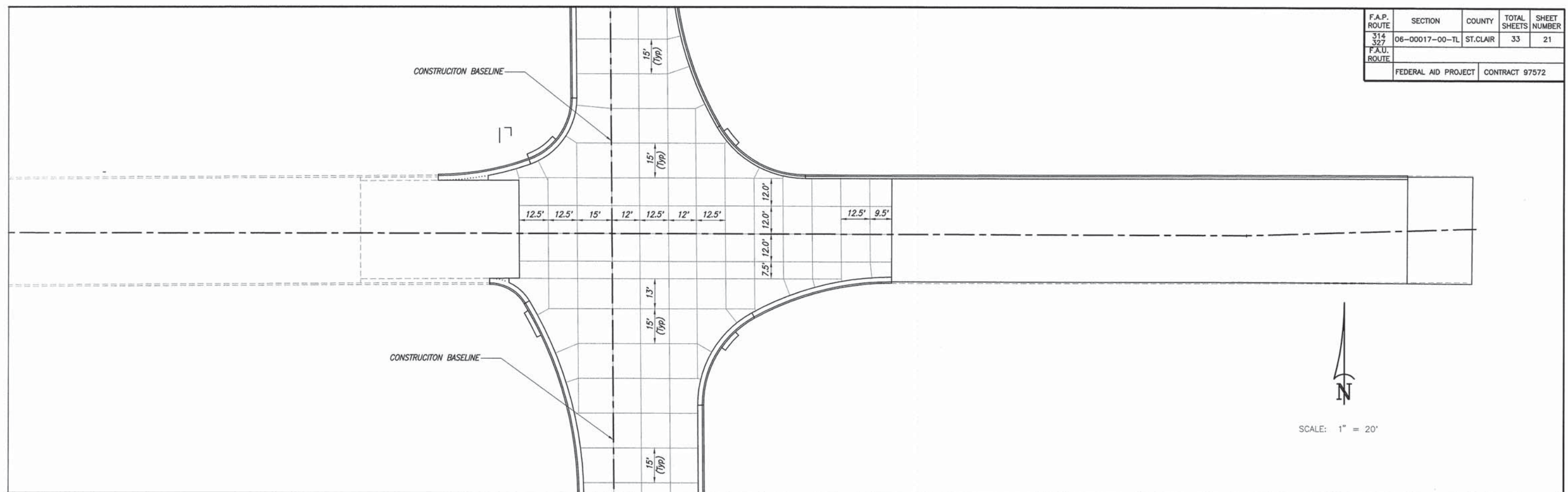


F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	20
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	
9247				



REMOVAL PLAN LEBANON INTERSECTION IMPROVEMENTS
SECTION 06-00017-00-TL ST. CLAIR COUNTY, ILLINOIS

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	21
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	



F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	22
F.A.U. ROUTE				
9247	FEDERAL AID PROJECT	CONTRACT 97572		

BILL OF MATERIALS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
72000100	SIGN PANEL-TYPE 1	SQ FT	41.5
80500100	SERVICE INSTALLATION, TYPE A	EACH	1
81000400	CONDUIT IN TRENCH, 1-1/4" DIA., GALVANIZED STEEL	FOOT	6
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	115
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA.	FOOT	491
81028360	UNDERGROUND CONDUIT, PVC, 2-1/2"	FOOT	46
81028370	UNDERGROUND CONDUIT, PVC, 3"	FOOT	143
81028390	UNDERGROUND CONDUIT, PVC, 4"	FOOT	104
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	13
81400100	HANDHOLE	EACH	6
81400300	DOUBLE HANDHOLE	EACH	1
84500120	REMOVAL OF ELECTRICAL SERVICE INSTALLATION	EACH	1
85700200	FULLY ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1156
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1212
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1527
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1422
87301365	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3010
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 1 3C	FOOT	10
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	363
87700220	STEEL MAST ARM AND ASSEMBLY AND POLE, 36 FT.	EACH	1
87700280	STEEL MAST ARM AND ASSEMBLY AND POLE, 48 FT.	EACH	2
87700290	STEEL MAST ARM AND ASSEMBLY AND POLE, 50 FT.	EACH	1
87900200	CONCRETE FOUNDATION, TYPE D	FOOT	3
87900415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	55
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	3
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	9
88500100	INDUCTIVE LOOP DETECTOR	EACH	15
88600100	DETECTOR LOOP, TYPE 1	FOOT	2011
88700200	LIGHT DETECTOR	EACH	4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	784

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	23
F.A.U. ROUTE				
9247	FEDERAL AID PROJECT	CONTRACT 97572		

ELECTRICAL GENERAL NOTES

- ALL VEHICLE SIGNAL HEADS SHALL BE POLYCARBONATE AND SHALL HAVE 12 INCH L.E.D. INDICATIONS. ALL MOUNTING HARDWARE, SIGNAL POSTS, MAST ARMS, LUMINAIRES, AND BASES SHALL BE PAINTED BLACK. THE CONTROLLER CABINET SHALL BE PAINTED (BLACK) ALUMINUM. ALL BOLTS, SCREWS, AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SIEZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- BACKPLATES SHALL BE ABS PLASTIC.
- THE LOCATIONS OF THE MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF A SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLES. ALL MAST ARMS AND POLES SHALL BE GALVANIZED.
- THE DEPTHS OF THE FOUNDATIONS FOR MAST ARMS SUPPORT POLES ARE:
ILLINOIS ROUTE 4/U.S. HIGHWAY 50/ST LOUIS STREET.
N.E. CORNER MAST ARM LENGTH = 50' (36" DIA) : 15.0 FT.
N.W. CORNER MAST ARM LENGTH = 36' (36" DIA) : 13.0 FT.
S.E. CORNER MAST ARM LENGTH = 48' (36" DIA) : 14.0 FT.
S.W. CORNER MAST ARM LENGTH = 48' (36" DIA) : 13.0 FT.
- ALL TRAFFIC SIGNAL CABLE SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN THE HANDHOLE PER ARTICLE B73.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DRAWING 886001. CONDUCTORS SHALL BE SPLICED IN RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
- CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN GREEN.
- ALL HANDHOLES SHALL BE CAST IN PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(b)). THE CAST IN PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
- ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATIONS. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT ARE THE FOLLOWING:
CITY OF LEBANON (WATER & SEWER)
AMEREN ILLINOIS (GAS & ELECTRIC)
AT & T (TELEPHONE)
CHARTER COMMUNICATIONS (CABLE TV)
THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS HAVE LOCATED AT THE TIME OF SURVEY, OR BASE ON EXISTING AVAILABLE INFORMATION. NO GUARANTEE IS IMPLIED THAT ALL UTILITIES HAVE BEEN LOCATED OR DEPICTED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.
- SEE "JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS" (JULIE) IN THE SPECIAL PROVISIONS. CALL (800) 892-0123 ONE WEEK BEFORE PLANNING TO DIG.
- ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED. THE SHALL BE RACK MOUNTED.
- THE CONTRACTOR SHALL FABRICATE, DELIVER AND INSTALL 2 STREET NAME SIGNS AT THE SPECIFIED LOCATIONS. THE SIGNS AND INSTALLATION SHALL CONFORM TO SECTION 720 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARDS 720001 AND 720016. THE CONTRACTOR SHALL INSTALL THE STREET NAME SIGNS ON THE MAST ARM AS SHOWN ON THE PLANS.
- CABLE MARKING TAPE SHALL BE INCLUDED WITH THE PAY ITEM "TRENCH AND BACKFILL FOR ELECTRICAL WORK" AND INSTALLED PER ARTICLE 815.03(d) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
- ANCHOR BOLTS, NUTS, AND WASHERS REQUIRED WITH THE TYPE D FOUNDATION SHALL BE INCLUDED IN THE PAY ITEM "FULL-ACTUATED CONTROLLER AND TYPE IV CABINET."
- THE CONTRACTOR SHALL INSTALL FOUR (4) GROUND RODS (¾"x12" LONG) AND #6 AWG BARE COPPER GROUND CONDUCTORS IN THE CONTROLLER FOUNDATION AS PER SPECIAL PROVISION, "CONCRETE FOUNDATION, TYPE D (SPECIAL).
- A ¼" NYLON ROPE SHALL BE FURNISHED AND INSTALLED IN ALL SIGNAL CONDUITS, THIS WORK SHALL BE INCLUDED WITH THE CONDUIT PAY ITEMS.
- THE SOIL BORINGS ARE INCLUDED IN THE PLANS.

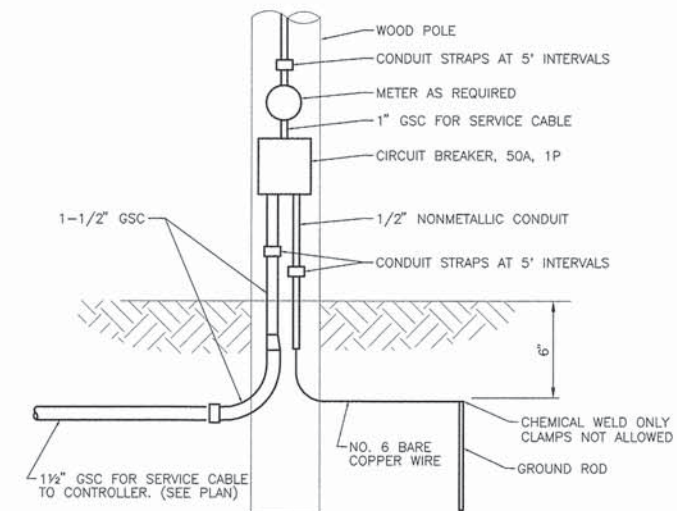
DETECTOR LOOP REQUIREMENTS & CALCULATIONS

LOOP	PHASE	LOOP SIZE (FT)	REQUIRED NO. OF TURNS	CALCULATED INDUCTANCE microhenries	CALCULATED RESISTANCE ohms
1	WB LEFT CCO	6' X 6'	6	324.1	1.8
2	WB THRU CCO	6' X 6'	6	326.5	1.9
3	WB THRU CD	6' X 50'	3-6-3	825.1	2.4
4	WB LT CD	6' X 50'	3-6-3	822.0	2.3
5	SB LT CCO	6' X 6'	6	302.0	1.2
6	SB THRU CCO	6' X 6'	6	299.6	1.2
7	SB THRU CD	6' X 50'	3-6-3	796.8	1.6
8	SB LT CD	6' X 50'	3-6-3	799.9	1.7
9	EB THRU CD	6' X 50'	3-6-3	817.1	2.2
10	EB LT CD	6' X 50'	3-6-3	820.2	2.3
11	NB LT CCO	6' X 6'	6	350.4	2.5
12	NB THRU CCO	6' X 6'	6	348.0	2.4
13	NB RT CD	6' X 50'	3-6-3	839.5	2.8
14	NB THRU CD	6' X 50'	3-6-3	843.4	2.9
15	NB LT CD	6' X 50'	3-6-3	846.1	2.9

THE ABOVE VALUES ARE CALCULATION OF COMBINED LOOP & LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN ± 20% OF THE VALUES.

STANDARDS

- 805001-01
- 814001-03
- 814006-02
- 857001-01
- 873001-02
- 876001-01
- 877001-05
- 878001-10
- 880006-01
- 886001-01
- 886006-01



NOTES

- VERTICAL CONDUIT SECTIONS ATTACHED TO THE SERVICE POLE SHALL BE INCIDENTAL TO THE SERVICE INSTALLATION. SUCH INSTALLATION OF CONDUIT ON THE SERVICE POLE SHALL BE DONE TO THE SATISFACTION OF THE UTILITY COMPANY.
- HORIZONTAL CONDUIT LEADING FROM THE UTILITY COMPANY POLE TO CONTROLLER CABINET SHALL BE PAID FOR SEPARATELY.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL ATTACHMENT FOR AMEREN IP'S SERVICE LINE TO THE SATISFACTION OF THE UTILITY COMPANY.

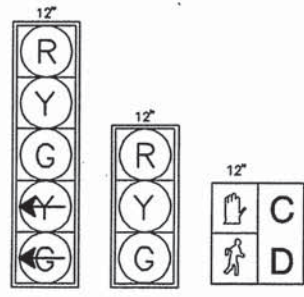
DETAIL OF SERVICE INSTALLATION

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	24
F.A.U. ROUTE				
9247 FEDERAL AID PROJECT		CONTRACT 97572		

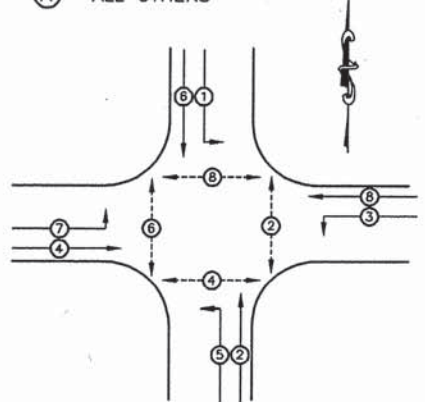
CONTROLLER PHASING

PHASE #	1	2	3	4	5	6	7	8
MOVEMENT	L	H	T	T	T	T	T	T
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

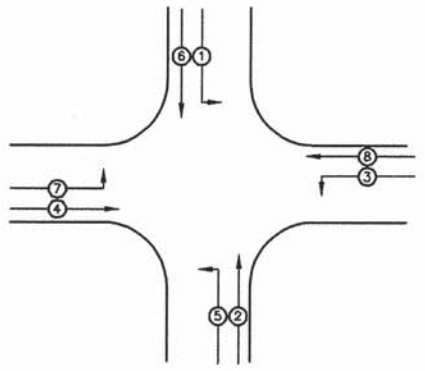
* PEDESTRIAN MOVEMENT ON ACTUATION ONLY.



(A) ALL OTHERS

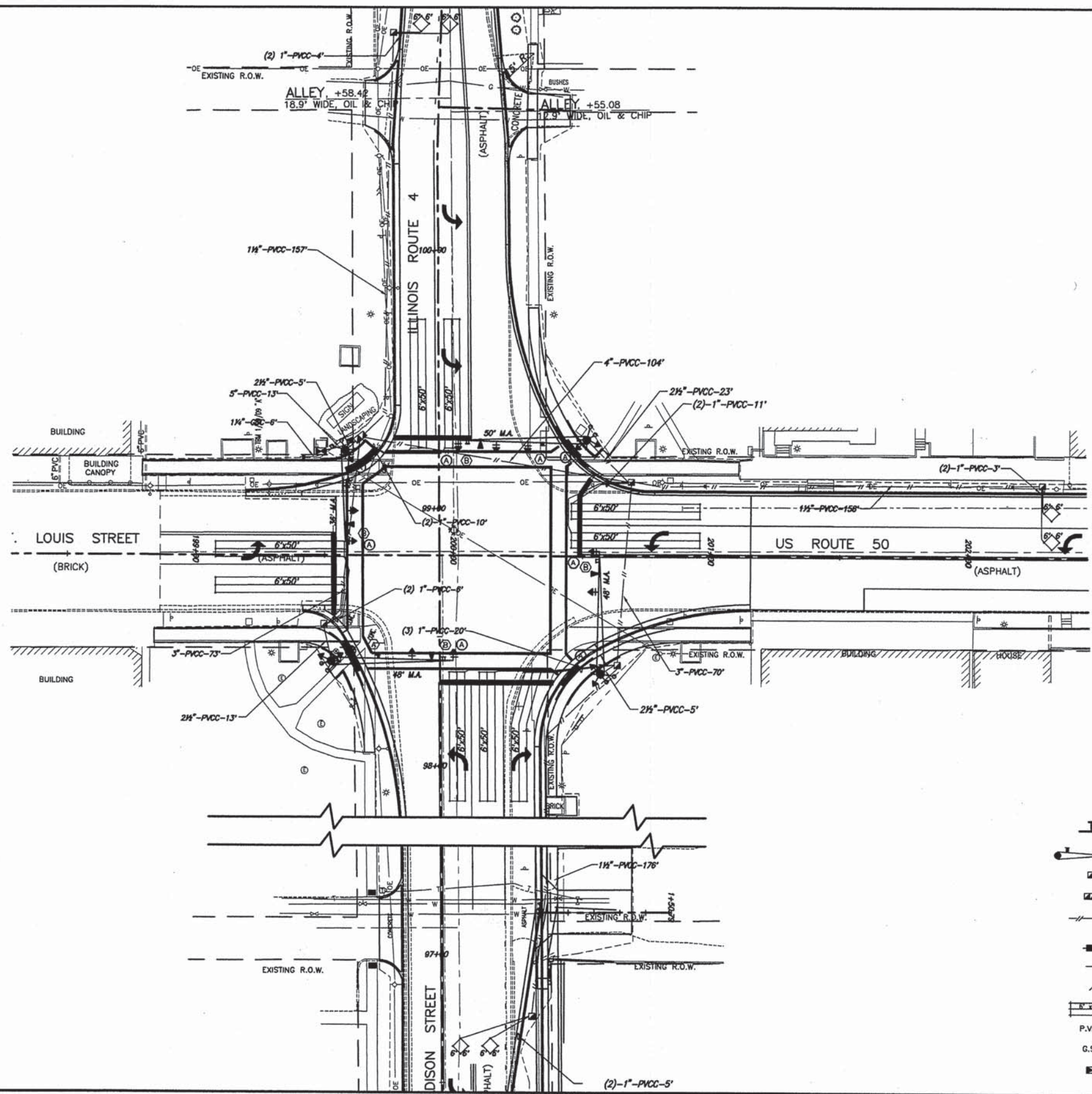


PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTOR	1	2	3	4
EMERGENCY VEHICLE PREEMPTOR	1+6	2+5	3+8	4+7
MOVEMENT	L	T	T	T



TRAFFIC SIGNAL LEGEND

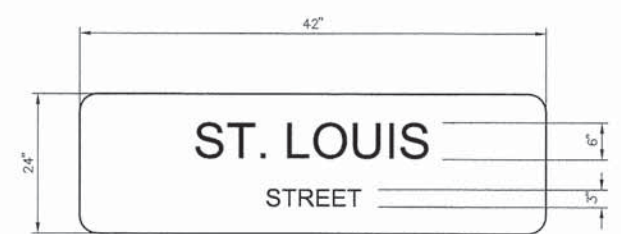
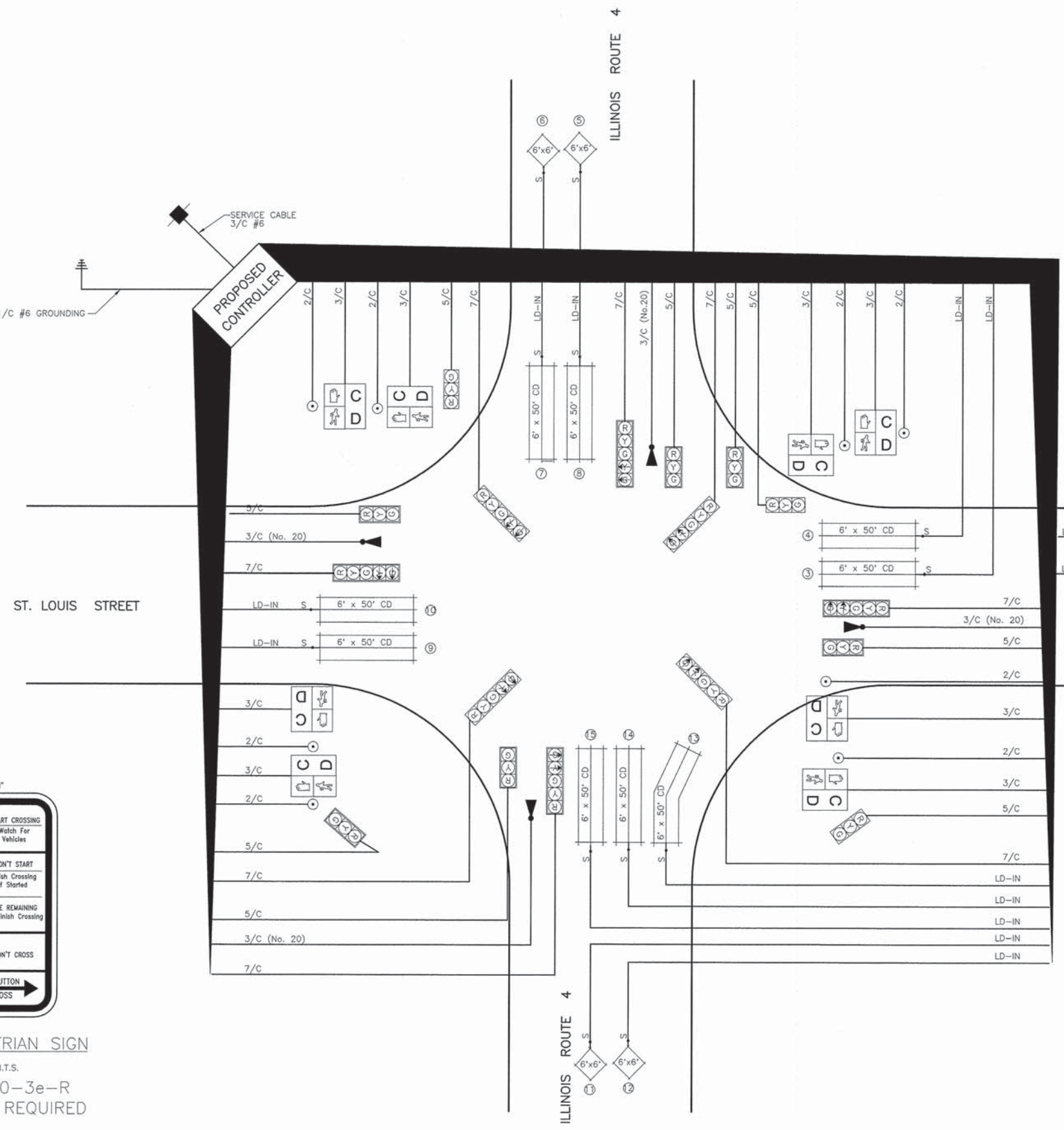
- PROPOSED TRAFFIC SIGNAL MAST ARM
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONDUIT: "T" TRENCHED; "P" PUSHED; SIZE SPECIFIED
- EXISTING SERVICE INSTALLATION
- PROPOSED PEDESTRIAN PUSH-BUTTON DETECTOR
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED DETECTOR LOOP
- P.V.C.C. POLYVINYL CHLORIDE CONDUIT
- G.S.C. GALVANIZED STEEL CONDUIT
- PROPOSED CONTROLLER

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	25
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	
9247				

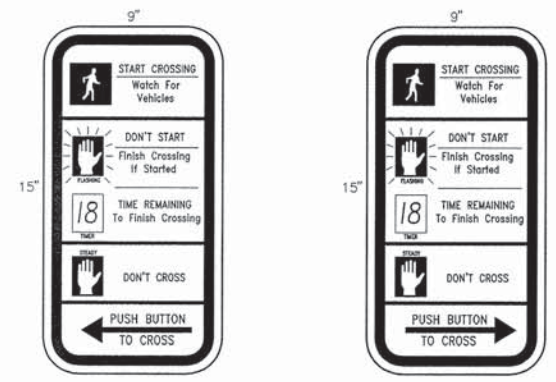
CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- #6 INDICATES AMERICAN WIRE (AWG) SIZE 6
- LD-IN ELECTRICAL CABLE LEAD-IN 1 PAIR
- CD CALL DELAY
- CCO CALL CARRY OVER
- SERVICE INSTALLATION
- TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- LOOP DETECTOR

** GROUNDING SHALL INCLUDE:
4 EACH MAST ARM POLES
4 EACH HANDHOLES

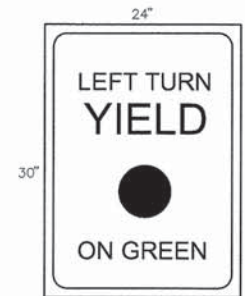


DETAIL **A**
STREET NAME SIGNS
N.T.S.
MAST ARM MOUNTED
2 EACH REQUIRED
SIGN PANEL - TYPE 1



PEDESTRIAN SIGN
N.T.S.
R10-3e-L
4 EACH REQUIRED

PEDESTRIAN SIGN
N.T.S.
R10-3e-R
4 EACH REQUIRED



DETAIL **B**
TRAFFIC SIGNS
N.T.S.
R10-12
MAST ARM MOUNTED
4 EACH REQUIRED
SIGN PANEL - TYPE 1

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	26
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	
9247				

Illinois Department of Transportation SOIL BORING LOG Page 1 of 1
Date 03/07/11

ROUTE IL RTE. 4 DESCRIPTION Mast Arms at U.S. 50 & IL Rte. 4 LOGGED BY WKS

SECTION 06-00017-00-TL LOCATION Lebanon, IL SEC. 19 TWP. 2N R19G. 6W PM 3rd

COUNTY St. Clair STRUCTURE NO. (Exist.) (Prop.)

BORING NO. B-1 DRILLING METHOD CFA HAMMER TYPE Automatic

Station 92+26.04
Offset 52.14' RT
Ground Surface Elev. 514.18 (ft)

Surface Water Elev. (ft)
Groundwater Elev. (ft)
First Encounter Dry (ft)
Upon Completion (ft)
After (ft)

SOIL DESCRIPTION	(ft)	(ft)	(blows)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
FILL - Dark brown low plastic SILTY CLAY	1	0.5	33						
Dark brown low plastic SILTY CLAY	1	1.3	29						
A-4	2	0.7	26						
Brown low plastic SILTY CLAY	2	3.0	12						
Brown low plastic SILTY CLAY, some sand	4	2.0	12						
A-4	3	1.5	17						
Brown low plastic SILTY CLAY	2	1.4	15						
A-6	3	1.5	16						
Brown low plastic SILTY CLAY, trace sand gravel	4	1.4	22						
A-6	7								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T208)

885 137 (9/05)

Illinois Department of Transportation SOIL BORING LOG Page 1 of 1
Date 03/07/11

ROUTE ST. LOUIS ST. DESCRIPTION Mast Arms at U.S. 50 & IL Rte. 4 LOGGED BY WKS

SECTION 06-00017-00-TL LOCATION Lebanon, IL SEC. 19 TWP. 2N R19G. 6W PM 3rd

COUNTY St. Clair STRUCTURE NO. (Exist.) (Prop.)

BORING NO. B-2 DRILLING METHOD CFA HAMMER TYPE Automatic

Station 192+57.71
Offset 40.87' LT
Ground Surface Elev. 513.43 (ft)

Surface Water Elev. (ft)
Groundwater Elev. (ft)
First Encounter Dry (ft)
Upon Completion (ft)
After (ft)

SOIL DESCRIPTION	(ft)	(ft)	(blows)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
FILL - Dark brown low plastic SILTY CLAY	1	1.3	29						
Dark brown low plastic SILTY CLAY	1	0.7	28						
A-6	2	0.8	28						
Brown low plastic SILTY CLAY	3	0.8	28						
Brown low plastic SILTY CLAY, trace sand	2	0.4	27						
A-6	2	0.4	26						
Brown low plastic SILTY CLAY	3	0.5	21						
A-6	3	1.0	21						
Brown low plastic SILTY CLAY, trace sand, gravel	4	2.0	29						
A-6	7								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T208)

885 137 (9/05)

Illinois Department of Transportation SOIL BORING LOG Page 1 of 1
Date 03/07/11

ROUTE IL RTE. 4 DESCRIPTION Mast Arms at U.S. 50 & IL Rte. 4 LOGGED BY WKS

SECTION 06-00017-00-TL LOCATION Lebanon, IL SEC. 19 TWP. 2N R19G. 6W PM 3rd

COUNTY St. Clair STRUCTURE NO. (Exist.) (Prop.)

BORING NO. B-3 DRILLING METHOD CFA HAMMER TYPE Automatic

Station 98+40.90
Offset 42.63' LT
Ground Surface Elev. 511.71 (ft)

Surface Water Elev. (ft)
Groundwater Elev. (ft)
First Encounter Dry (ft)
Upon Completion (ft)
After (ft)

SOIL DESCRIPTION	(ft)	(ft)	(blows)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
Dark brown low plastic SILTY CLAY	0	0	27						
A-4	3	2.0	21						
Brown low plastic SILTY CLAY, trace sand	6	4.0	16						
A-4	7	2.0	12						
Brown low plastic SILTY CLAY	3	1.5	18						
A-6	4	1.6	17						
Brown low plastic SILTY CLAY	3	2.1	16						
A-6	5								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T208)

885 137 (9/05)

Illinois Department of Transportation SOIL BORING LOG Page 1 of 1
Date 03/07/11

ROUTE ROUTE 50 DESCRIPTION Mast Arms at U.S. 50 & IL Rte. 4 LOGGED BY WKS

SECTION 06-00017-00-TL LOCATION Lebanon, IL SEC. 19 TWP. 2N R19G. 6W PM 3rd

COUNTY St. Clair STRUCTURE NO. (Exist.) (Prop.)

BORING NO. B-4 DRILLING METHOD CFA HAMMER TYPE Automatic

Station 200+56.50
Offset 45.44' RT
Ground Surface Elev. 512.88 (ft)

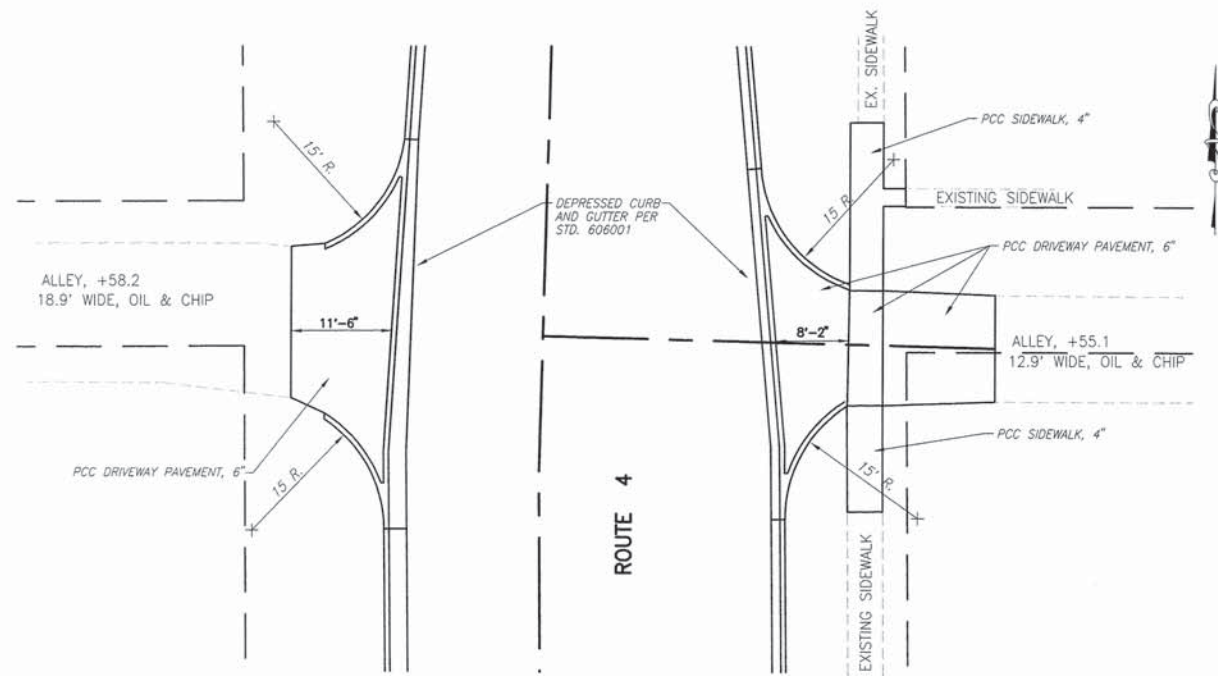
Surface Water Elev. (ft)
Groundwater Elev. (ft)
First Encounter Dry (ft)
Upon Completion (ft)
After (ft)

SOIL DESCRIPTION	(ft)	(ft)	(blows)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
Brown low plastic SILTY CLAY	3	1.5	20						
A-7	3	1.5	28						
Brown low plastic SILTY CLAY	2	0.3	28						
A-6	2	0.4	29						
Brown low plastic SILTY CLAY, trace sand	2	0.6	25						
A-6	2	0.7	19						
Brown low plastic SILTY CLAY, trace sand, gravel	3	0.8	25						
A-7	3	0.8	26						
Brown low plastic SILTY CLAY	3								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T208)

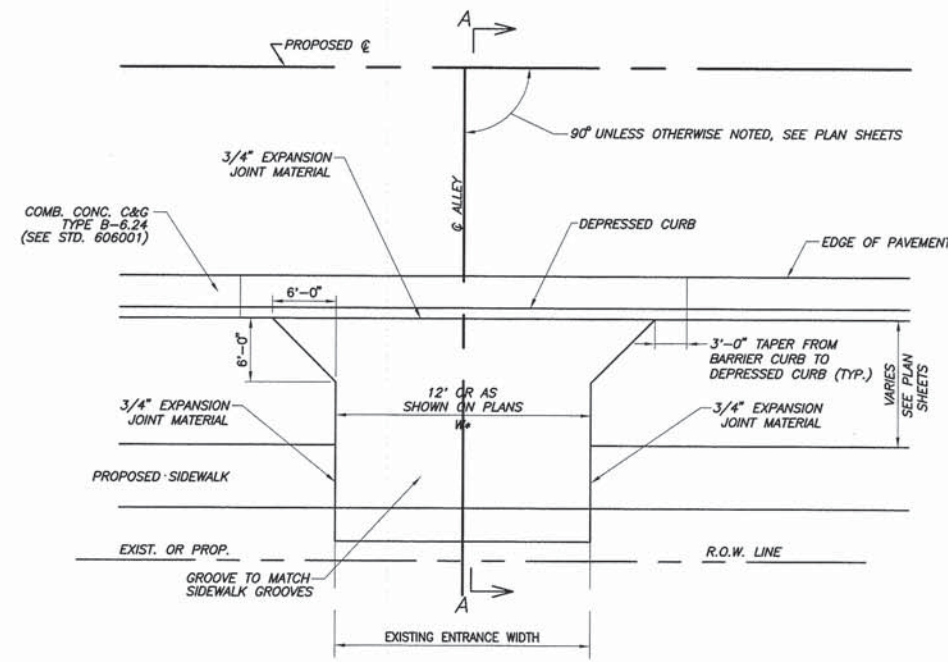
885 137 (9/05)

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	27
F.A.U. ROUTE				
9247	FEDERAL AID PROJECT		CONTRACT 97572	



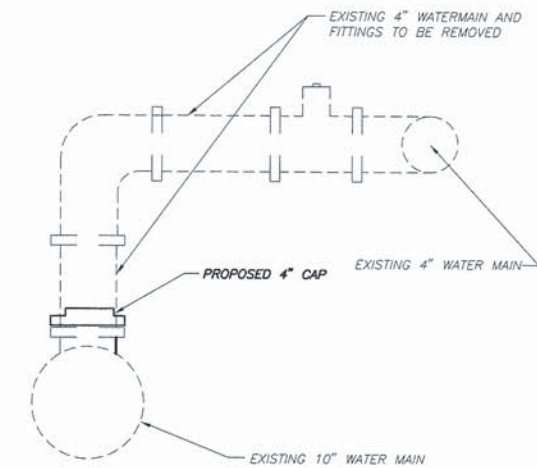
ENTRANCES NORTH OF ROUTE 4 / ROUTE 50 INTERSECTION

SCALE: 1"=10'



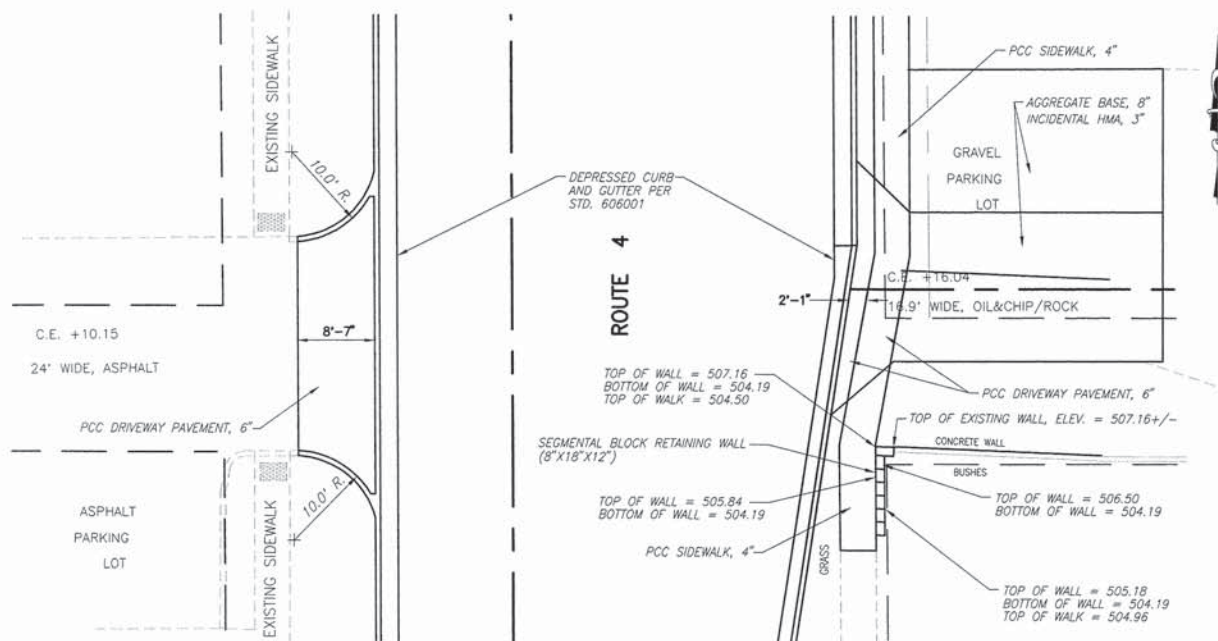
ALLEY DETAIL "A"

ALLEY WITH SIDEWALK AND CONCRETE CURB & GUTTER TYPE B-6.24 N.T.S.



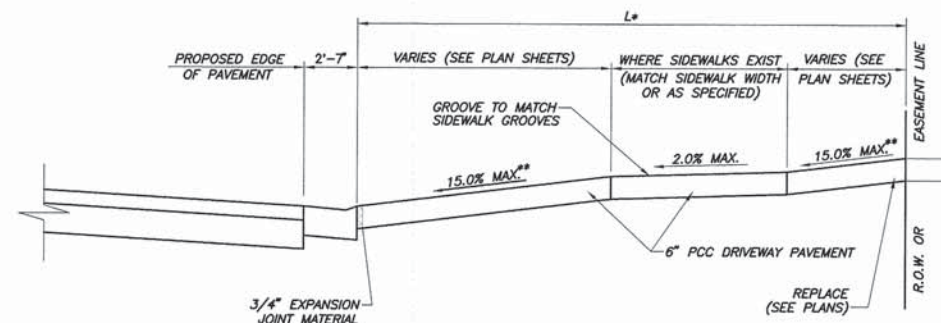
DETAIL OF CUT AND CAP EXISTING WATER MAIN

N.T.S.



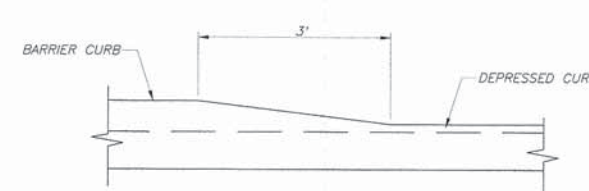
ENTRANCES SOUTH OF ROUTE 4 / ROUTE 50 INTERSECTION

SCALE: 1"=10'



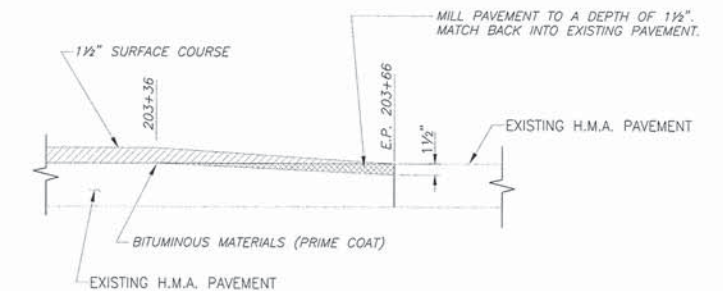
SECTION "A-A"

* SEE ENTRANCE SCHEDULE FOR DISTANCES
** SEE CROSS SECTIONS FOR SLOPES



DETAIL OF CURB HEIGHT TRANSITION

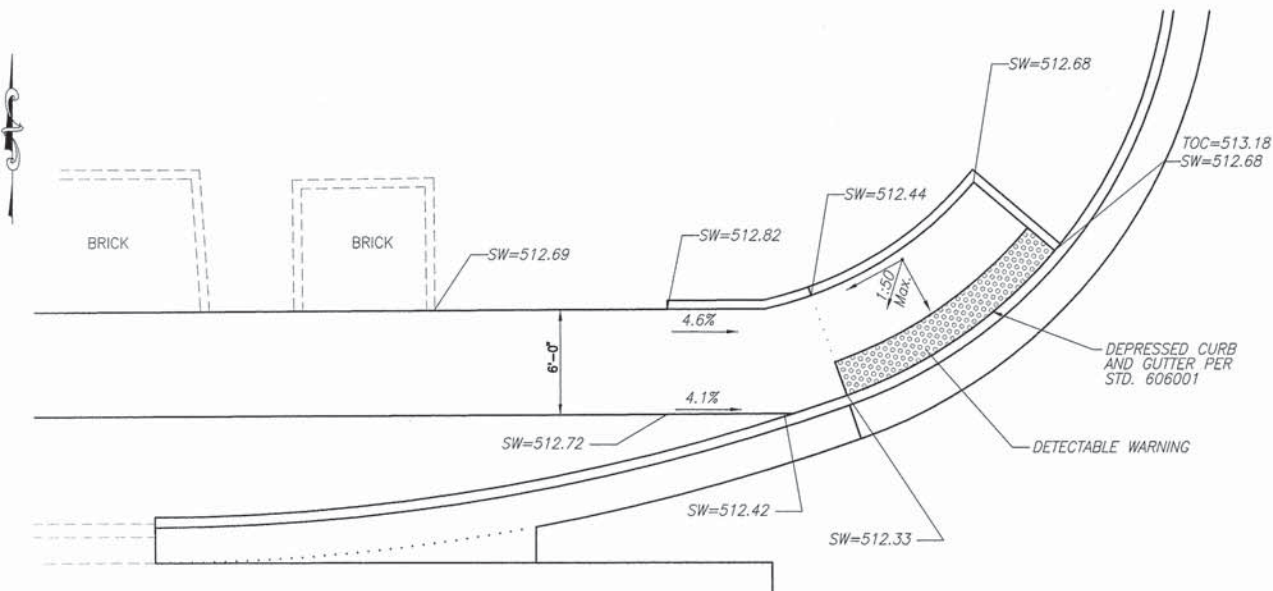
N.T.S.



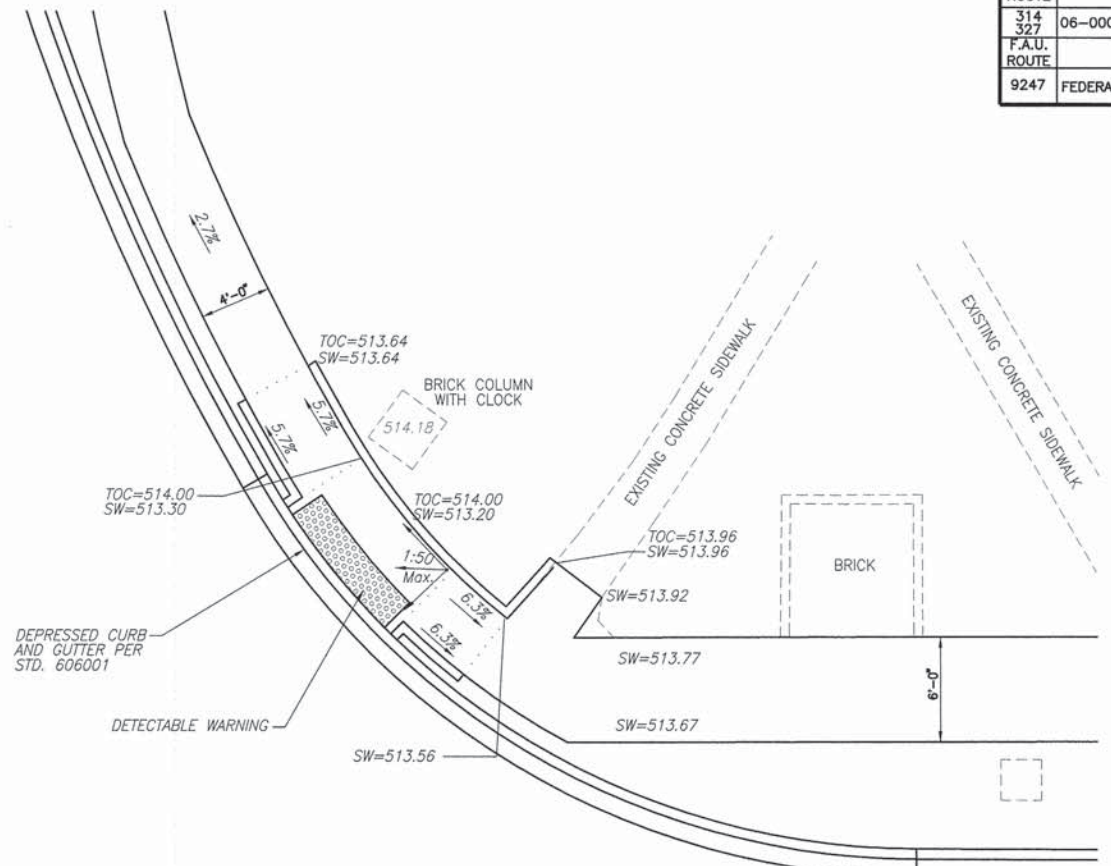
BUTT JOINT DETAIL

N.T.S.

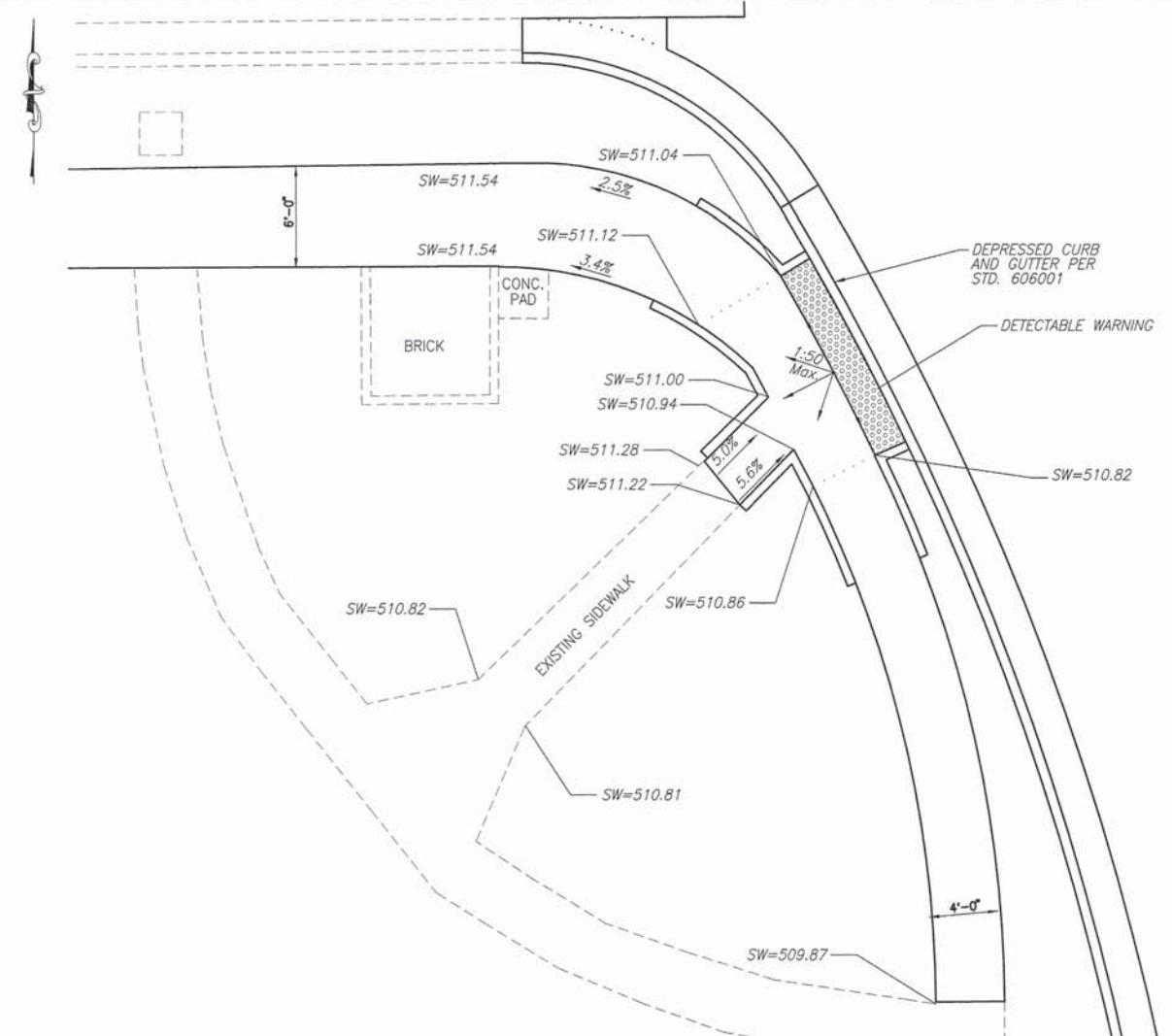
F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	28
F.A.U. ROUTE				
9247	FEDERAL AID PROJECT	CONTRACT 97572		



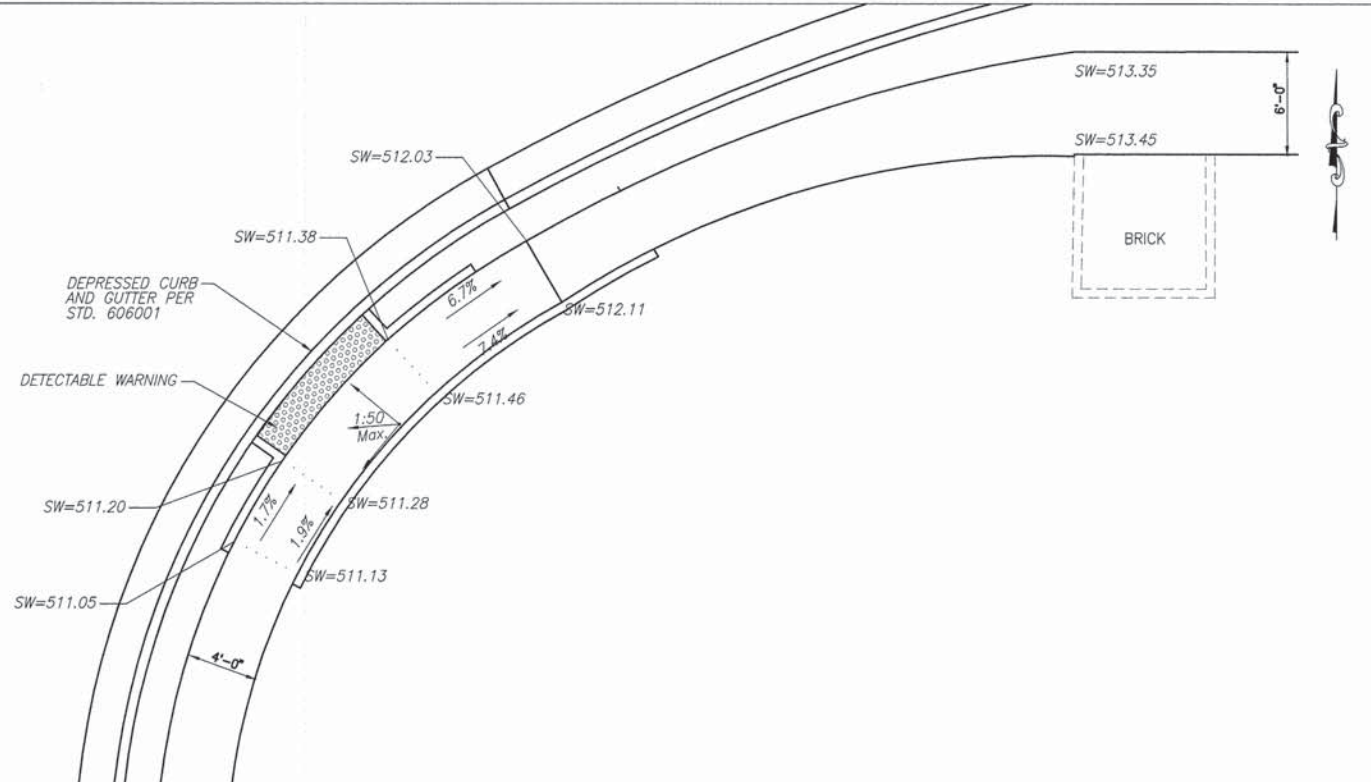
SIDEWALK N.W. QUADRANT OF ROUTE 4 / ROUTE 50 INTERSECTION
SCALE: 1"=5'



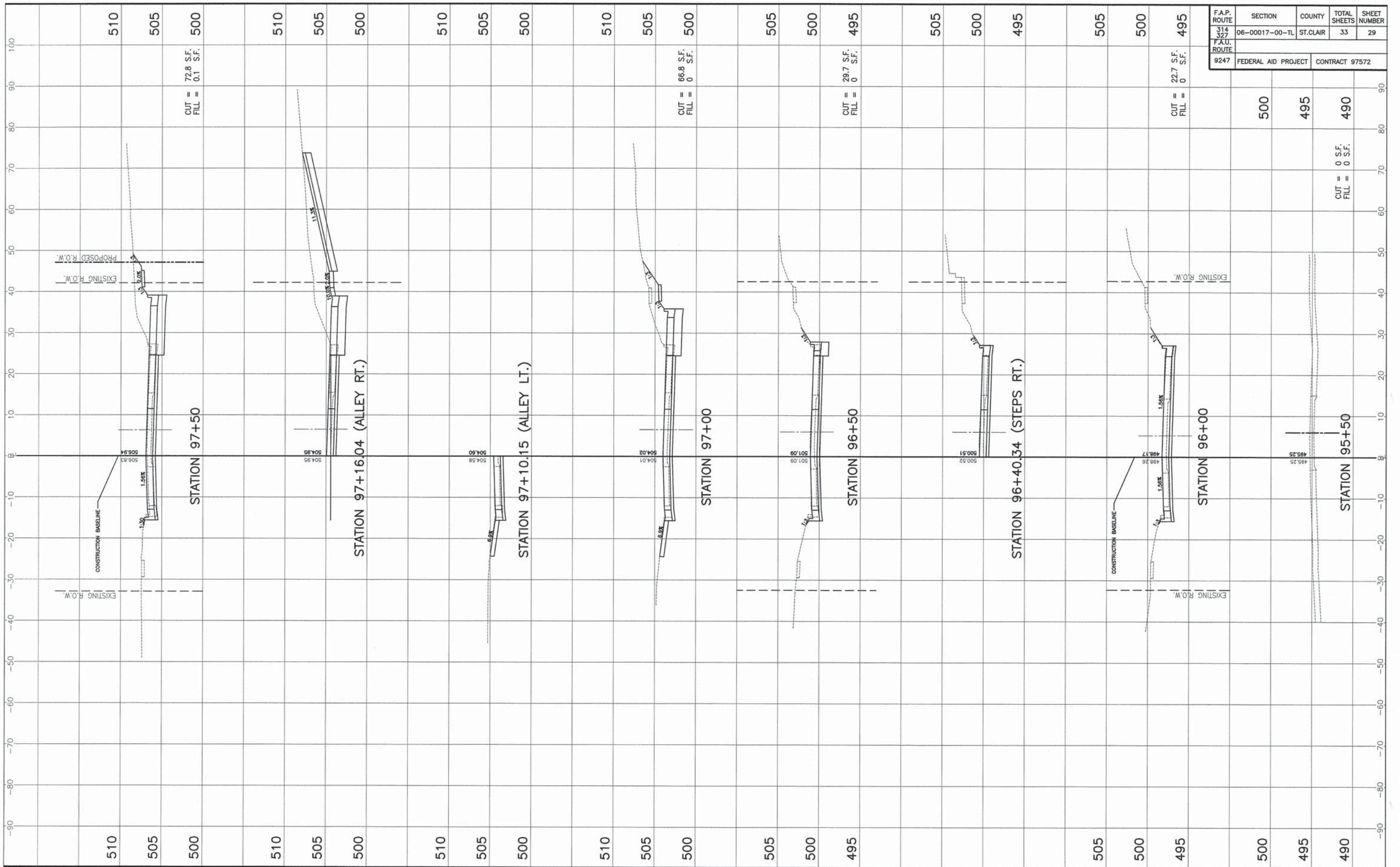
SIDEWALK N.E. QUADRANT OF ROUTE 4 / ROUTE 50 INTERSECTION
SCALE: 1"=5'

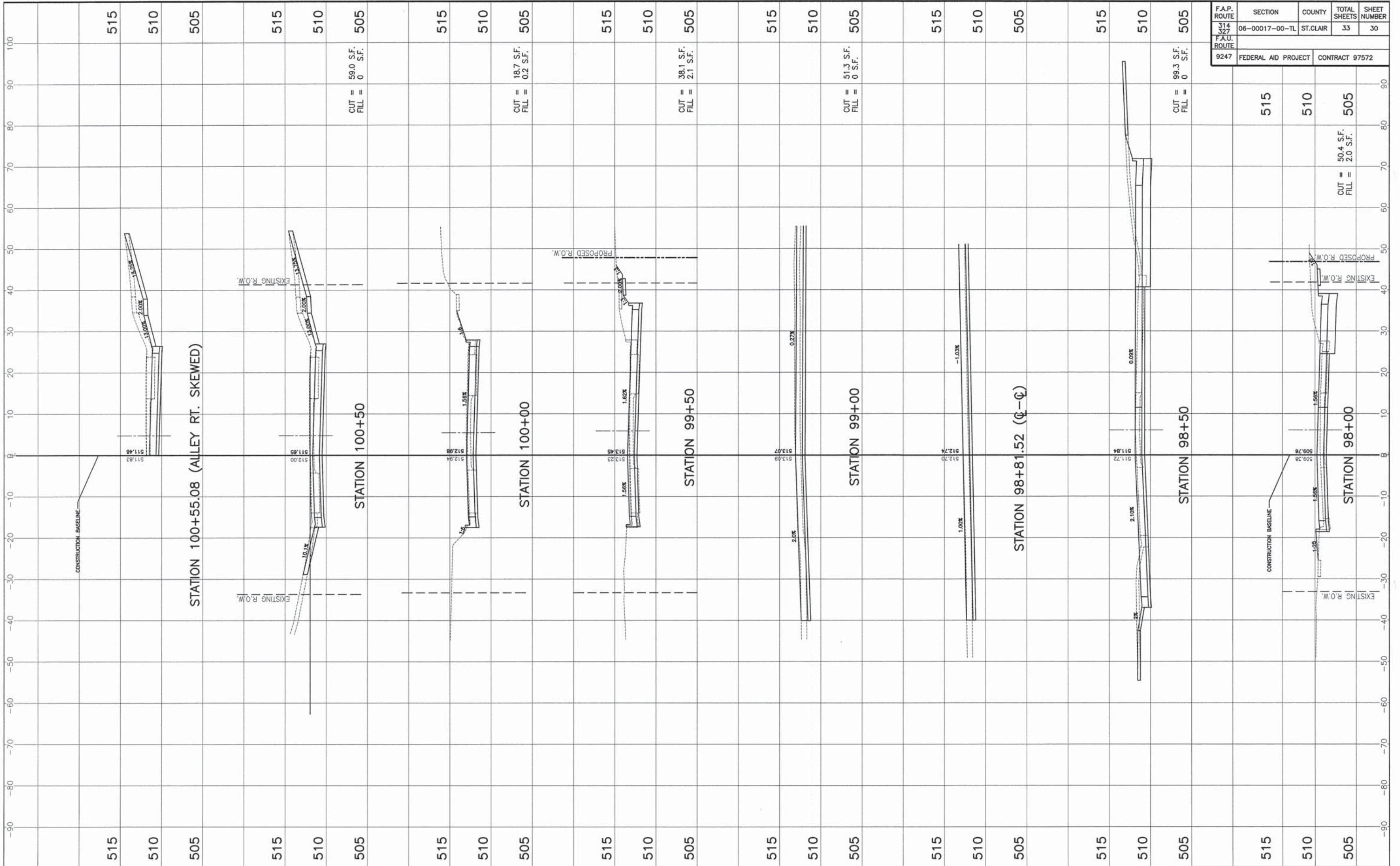


SIDEWALK S.W. QUADRANT OF ROUTE 4 / ROUTE 50 INTERSECTION
SCALE: 1"=5'

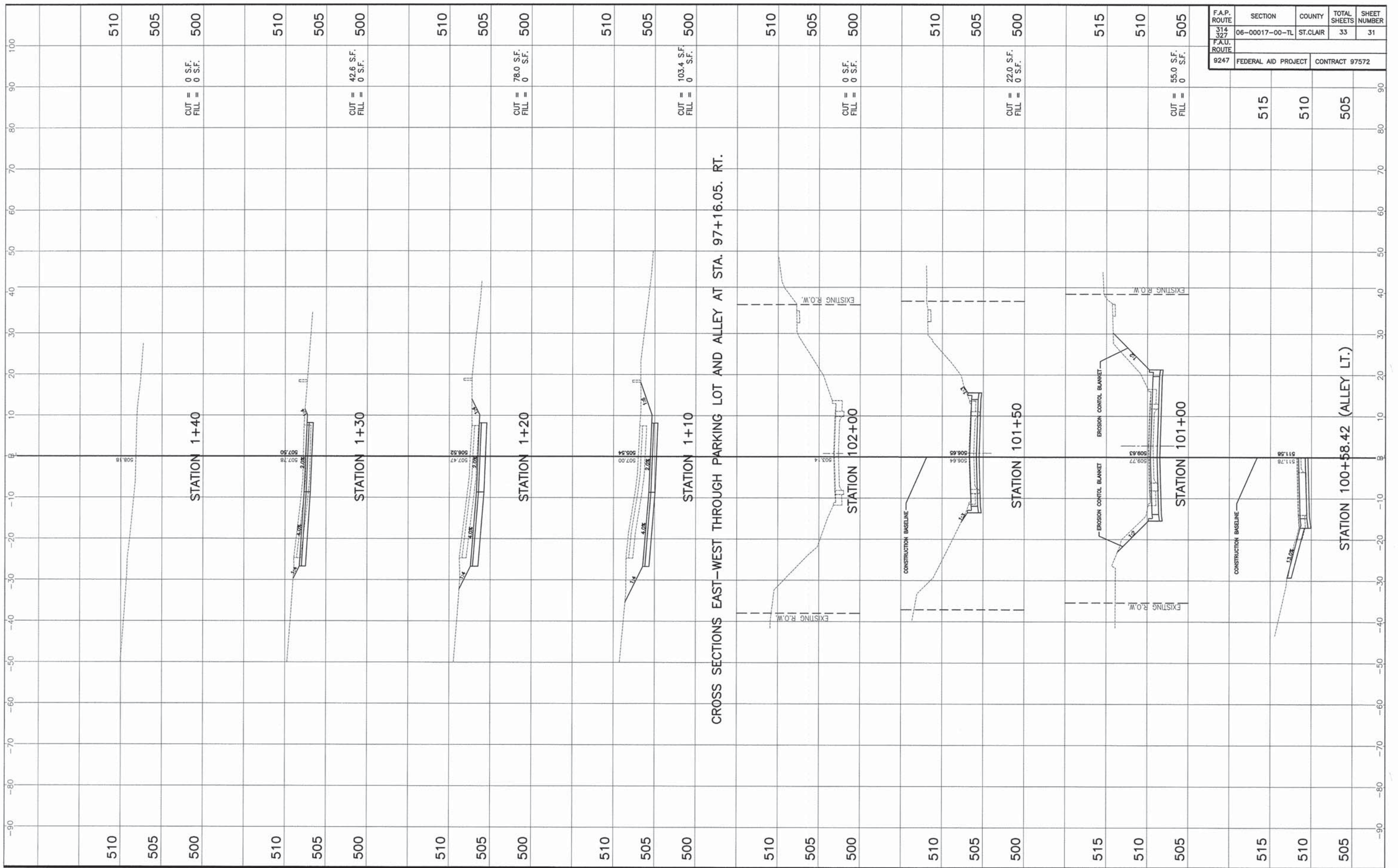


SIDEWALK S.E. QUADRANT OF ROUTE 4 / ROUTE 50 INTERSECTION
SCALE: 1"=5'

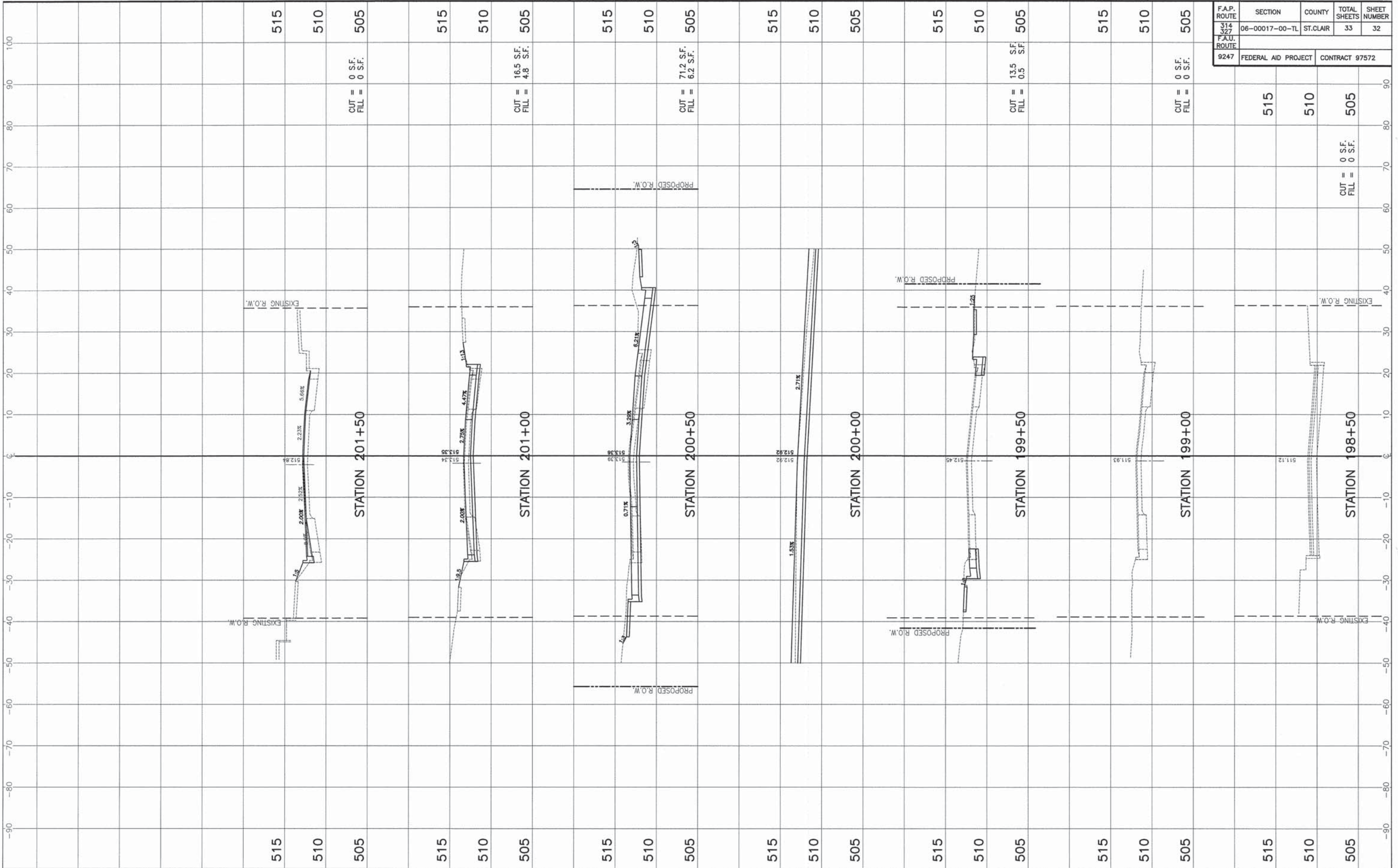




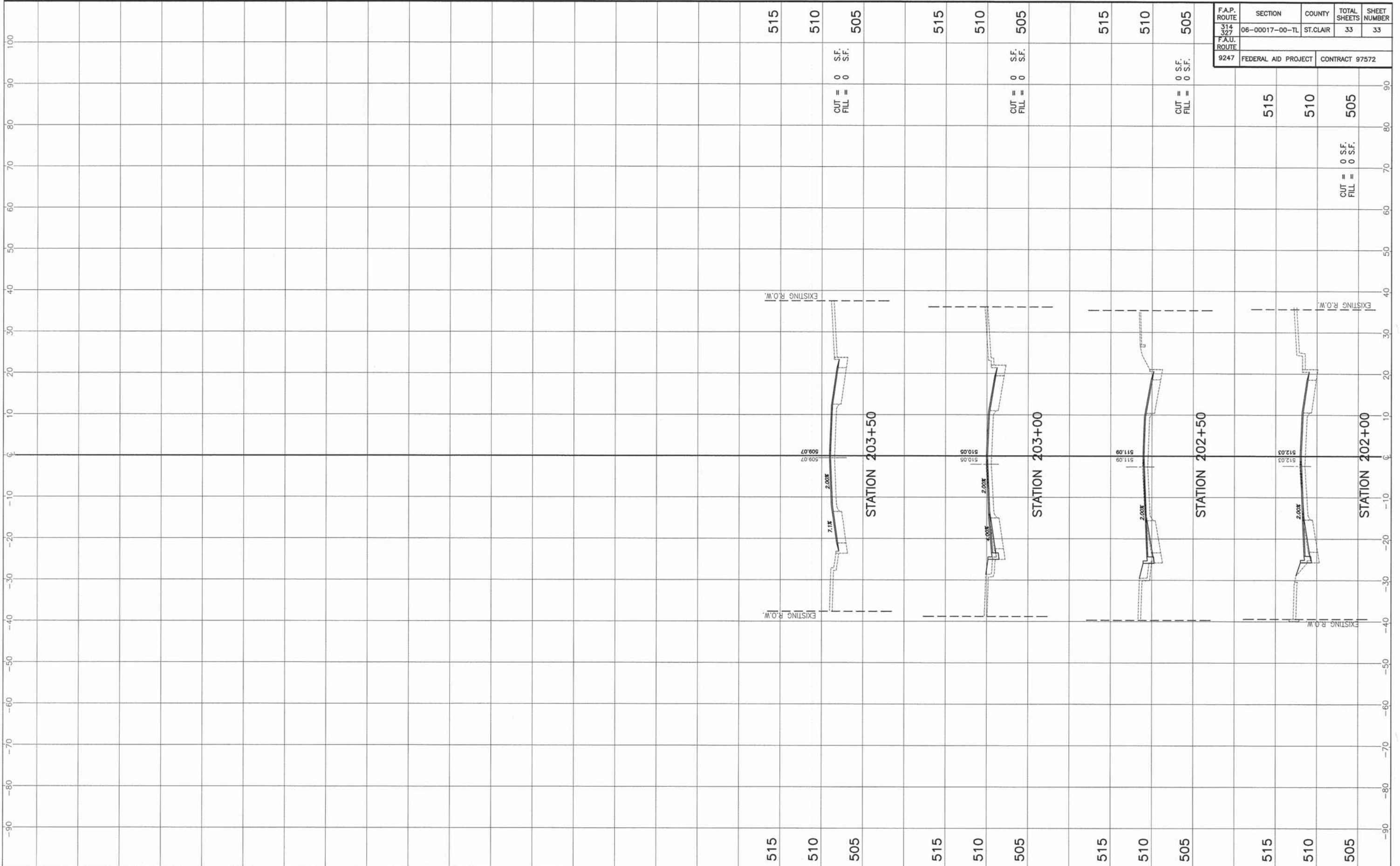
F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	30
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	
9247				



F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	31
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	
9247				



F.A.P. ROUTE 314 327	SECTION 06-00017-00-TL	COUNTY ST. CLAIR	TOTAL SHEETS 33	SHEET NUMBER 32
F.A.U. ROUTE 9247	FEDERAL AID PROJECT		CONTRACT 97572	



F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
314 327	06-00017-00-TL	ST. CLAIR	33	33
F.A.U. ROUTE	FEDERAL AID PROJECT		CONTRACT 97572	
9247				

515 510 505

CUT = 0 S.F.
FILL = 0 S.F.

515 510 505

CUT = 0 S.F.
FILL = 0 S.F.

515 510 505

CUT = 0 S.F.
FILL = 0 S.F.

515 510 505

CUT = 0 S.F.
FILL = 0 S.F.