

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 600 (IL 159)
SECTION 34-1RS-2

**MICROSURFACING & PATCHING
MADISON COUNTY**

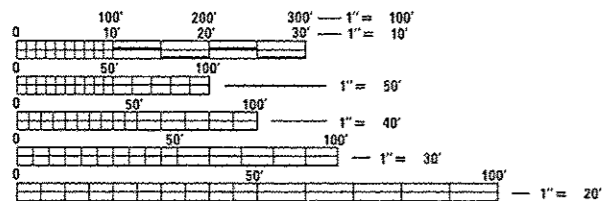
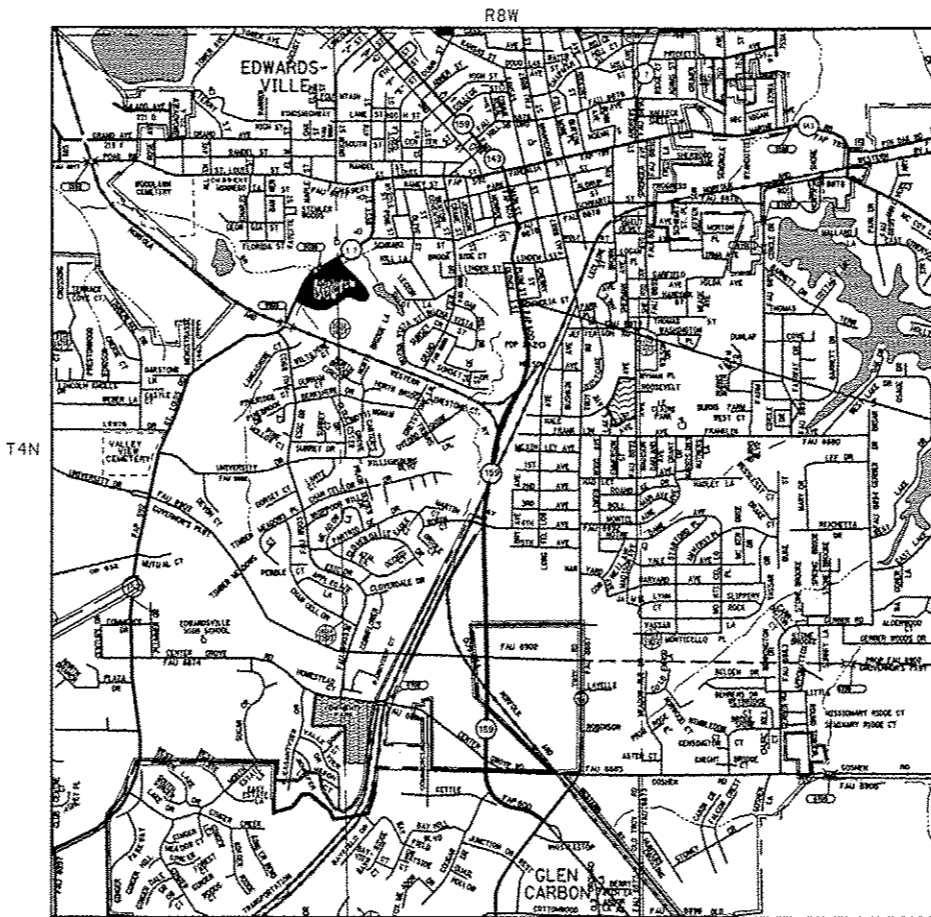
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	34-1RS-2	MADISON	9	1
		ILLINOIS	CONTRACT NO. 76J35	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

2015 ADT: 10500 (ACTUAL)
2016 ADT: 10600 (ESTIMATED)
2036 ADT: 14300 (ESTIMATED)
SU: 7.1% MU: 1.9%



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: MICHAEL PRITCHETT (618) 346-3180
DESIGNER: LEONARD CHILDS (618) 346-3191

CONTRACT NO. 76J35

GROSS LENGTH = 10214.00 FT. = 1.934 MILE
NET LENGTH = 10214.00 FT. = 1.934 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *Dec 11 20 15*
Jeffrey Z. Kan
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

Jan 29 20 16
Muneen M. Addis PE, Inc
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 29 20 16
Orner Osman PE, Inc
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

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- 3 SUMMARY OF QUANTITIES
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- 7-8 SCHEDULE OF QUANTITIES
- 9 PLAN DETAILS

GENERAL NOTES

1. SINCE THE ADT>5,000 THE AGGREGATE FOR THE SURFACE LIFT OF MICRO-SURFACING SHALL MEET THE FRICTION AGGREGATE REQUIREMENTS FOR MIXTURE "D" IN ARTICLE 1004.03(A).
2. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY, AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY	ABOVE GROUND	BELOW GROUND
*AMEREN ILLINOIS (GAS & ELECTRIC)	X	X
*AT&T ILLINOIS (COMMUNICATIONS)	X	X
*CHARTER COMMUNICATIONS, INC	X	X
*CONSOLIDATED COMMUNICATIONS	X	X
*CITY OF EDWARDSVILLE (ELECTRIC)	X	X
*CITY OF EDWARDSVILLE (WATER & SANITARY SEWER)		X
*VILLAGE OF GLEN CARBON (WATER & SEWER)		X

MEMBERS OF J.U.L.I.E. (800)-892-0123 OR 811 ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

3. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS AND REQUIRED RAMPS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE. (48"x48")
4. FLAGMEN SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
5. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING, TOPOGRAPHY, AND QUANTITIES SHOWN IN THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS. ALL SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
6. EXCEPT THRU-RIGHT ARROWS, THE PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATION AS EXISTING OR AS DIRECTED BY THE RESIDENT ENGINEER.
7. THE CONTRACTOR SHALL DEVISE AND SUBMIT A JOINT PLAN THAT MEETS THE APPROVAL OF THE RESIDENT ENGINEER AS REQUIRED BY THE SPECIAL PROVISION "MICRO-SURFACING".
8. THE ILLINOIS DEPARTMENT OF TRANSPORTATION STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G. MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. PLEASE CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
9. MICRO-SURFACING SHALL NOT BE APPLIED OVER EXISTING CONCRETE.
10. THE USE OF VIBRATORY ROLLERS WILL NOT BE PERMITTED WITHIN THE CITY LIMITS OF EDWARDSVILLE OF GLEN CARBON. THIS DOES NOT RELIEVE THE CONTRACTOR OF DENSITY REQUIREMENTS FOR THE CONSTRUCTION OF THE BITUMINOUS PAVEMENTS AS SPECIFIED IN SECTIONS 406 & 407 OF THE STANDARD SPECIFICATIONS.

GENERAL NOTES (CONT.)

11. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
12. THE LOCATIONS OF THE PARTIAL DEPTH PATCHING, RUT FILLING, CRACK SEALING, AND BUMP REMOVAL AS SHOWN IN THE PLANS ARE APPROXIMATE LOCATIONS. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
13. THE THICKNESS OF HOT-MIX ASPHALT SURFACE MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
14. CONTRACTOR SHALL EXERCISE CAUTION TO NOT DAMAGE DETECTOR LOOPS OR LEAD-IN WRES. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
15. A QUANTITY OF 2 CHANGEABLE MESSAGE SIGNS HAVE BEEN PROVIDED TO CONVEY PROJECT INFORMATION TO THE PUBLIC. EXACT LOCATION OF CHANGEABLE MESSAGE SIGNS SHALL BE DEFINED BY THE RESIDENT ENGINEER.
16. BUMP REMOVAL WAS ESTIMATED BASED ON FIELD REVIEW. ACTUAL QUANTITY WILL VARY.
17. TRANSVERSE CRACKS WERE ESTIMATED BASED ON FIELD REVIEW. ACTUAL QUANTITY WILL VARY.
18. THE CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS TO ENSURE THEY ARE VISIBLE UPON COMPLETION OF THE MICROSURFACING. THE PROCESS ESTABLISHED BY CONTRACTOR SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO CONSTRUCTION AND THE COST FOR THIS WORK SHALL BE INCLUDED AS PART OF THE CONTRACT.

EXISTING SURVEY MONUMENTS

POINT	METRIC STA	ENGLISH STA
PC	1708+847.97	128+57.53
PE	1708+951.43	131+96.96
PT	1709+054.66	135+35.66
CL-CL	1709+068.33	135+80.50
PC	1709+782.43	159+23.37
PE	1709+833.79	160+91.85
PT	1709+855.14	161+61.91
PC	1710+261.11	174+93.82
PT	1710+432.70	180+56.78
PC	1710+560.01	184+74.47
PT	1710+834.06	193+73.59
POT	1709+359.67	145+36.33

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701427-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-06	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701602-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-09	URBAN LANCE CLOSURE, MULTILANE INTERSECTION
701901-04	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

COMMITMENTS

NONE

MIXTURE REQUIREMENTS

ROUTE	FAP 600 (IL 159)
SECTION	34-1RS-2
COUNTY	Madison
CONTRACT	76J35

DESCRIPTION:	Microsurfacing & Patching along IL 159 from Magnolia St to Troy Rd
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ADT (Construction Yr)	10500
MU%:	1.9
SU%:	7.1
20 YR. ESAL'S:	2.18

MIXTURE USE	MICROSURFACE	PATCHING
AC/PG		PG 64-22
RAP % (MAX)		SEE SPECIAL PROVISION
DESIGN AIR Voids		4.0% @ Ndc=70
MIX COMPOSITION (Gradation)		IL 9.5
FRICTION AGG	MIXTURE "D"	MIXTURE "D"
QUALITY MGMT PROGRAM		QC/QA

Plan quantities for Hot Mix Asphalt Items are calculated using a unit weight of 112 lb/sq yd/in (59.8 kg/sq m/25 mm thickness).

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				100% STATE	
				ROADWAY 0005	URBAN
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	6188	6188	
67000400	ENGINEER FIELD OFFICE A	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	1	
70102620	TRAFFIC CONTROL & PROTECTION 701501	L SUM	1	1	
70102622	TRAFFIC CONTROL & PROTECTION 701502	L SUM	1	1	
70102632	TRAFFIC CONTROL & PROTECTION 701602	L SUM	1	1	
70102635	TRAFFIC CONTROL & PROTECTION 701701	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4	
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2736	2736	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	691.6	691.6	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	29071	29071	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	728	728	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1747	1747	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	237	237	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	14080	14080	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				100% STATE	
				ROADWAY 0005	URBAN
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	691.6	691.6	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	29071	29071	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	728	728	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1747	1747	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	237	237	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	477	477	
78300100	PAVEMENT MARKING REMOVAL	SO FT	13168	13168	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	477	477	
X0326218	FIBER-MODIFIED ASPHALT CRACK SEALING	FOOT	44181	44181	
X0326219	BUMP REMOVAL	EACH	20	20	
X0326220	MICRO-SURFACING RUT FILLING	FOOT	1920	1920	
X4405020	LONGITUDINAL PARTIAL DEPTH REMOVAL 2"	FOOT	3717	3717	
X4406020	PARTIAL DEPTH REMOVAL, TYPE I, 2"	SQ YD	10	10	
X4406220	PARTIAL DEPTH REMOVAL, TYPE II, 2"	SQ YD	35	35	
X4406620	PARTIAL DEPTH REMOVAL, TYPE IV, 2"	SQ YD	725	725	
X4420900	LONGITUDINAL PARTIAL DEPTH PATCHING	TON	92.5	92.5	
X4421000	PARTIAL DEPTH PATCHING	TON	86	86	
20063804	MICRO-SURFACING, SINGLE PASS, TYPE II, MIXTURE D	SO YD	45837	45837	

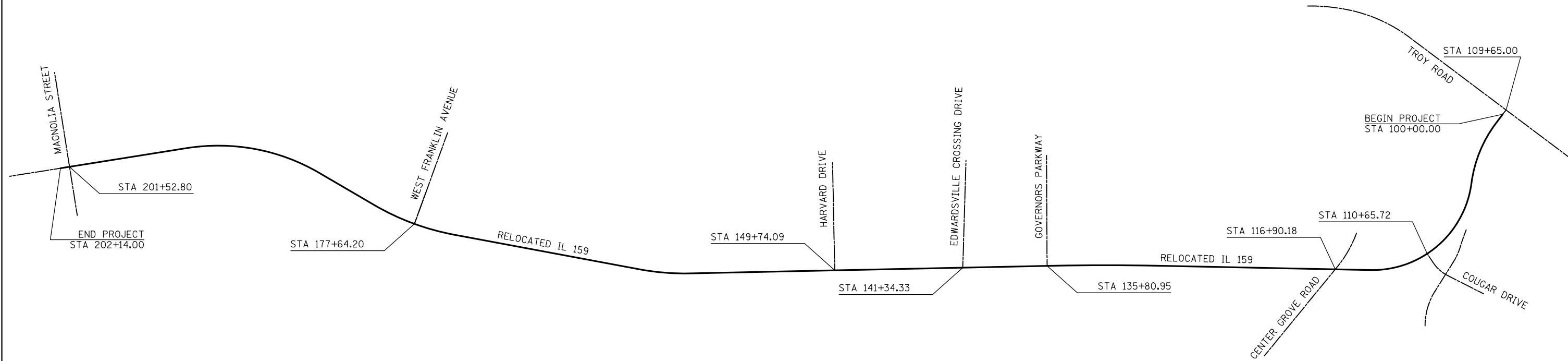
* SPECIALTY ITEM

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						ILLINOIS FED. AID PROJECT					



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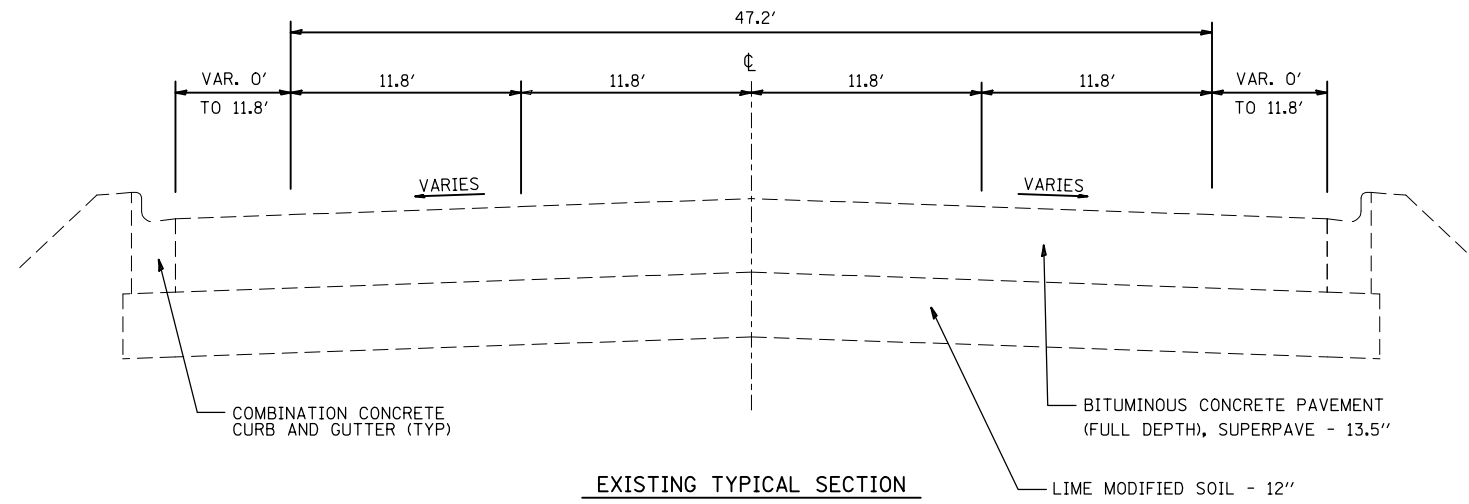
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

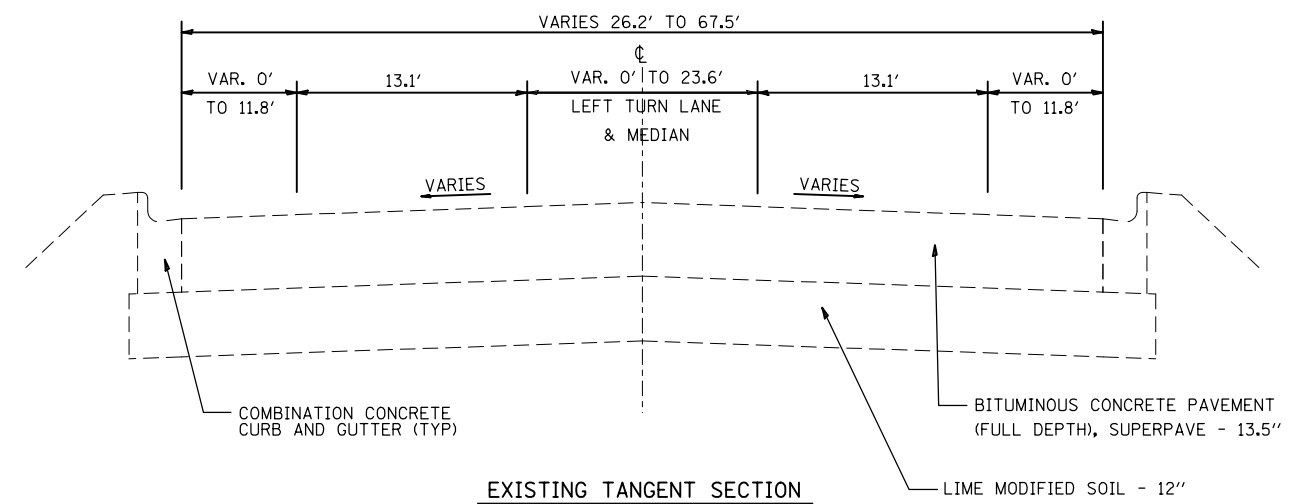
LOCATION MAP

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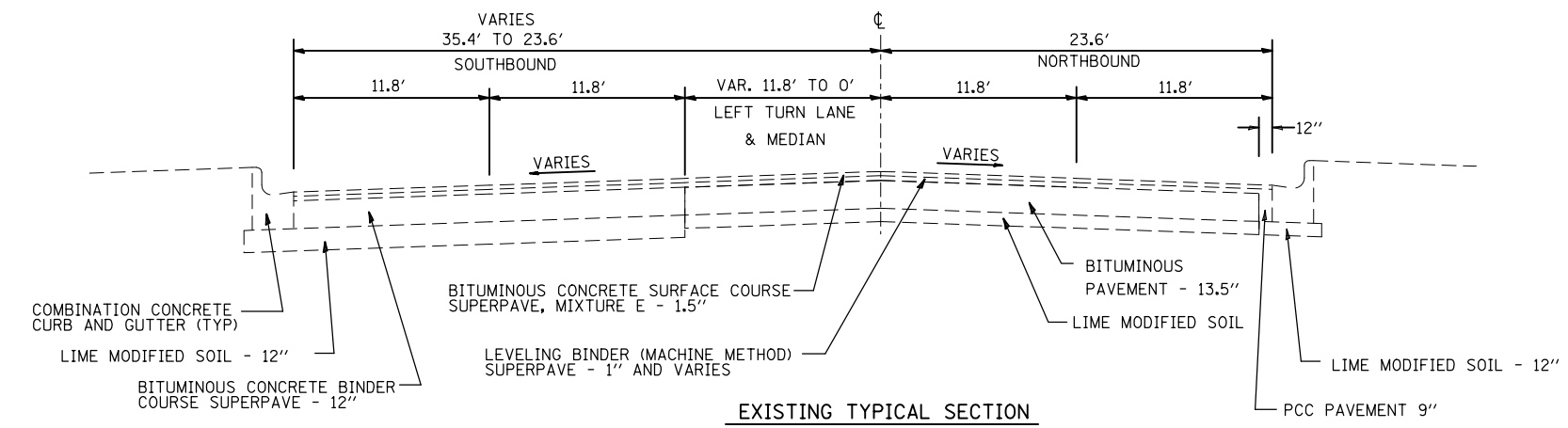
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CONTRACT NO. 76J35				
ILLINOIS FED. AID PROJECT				



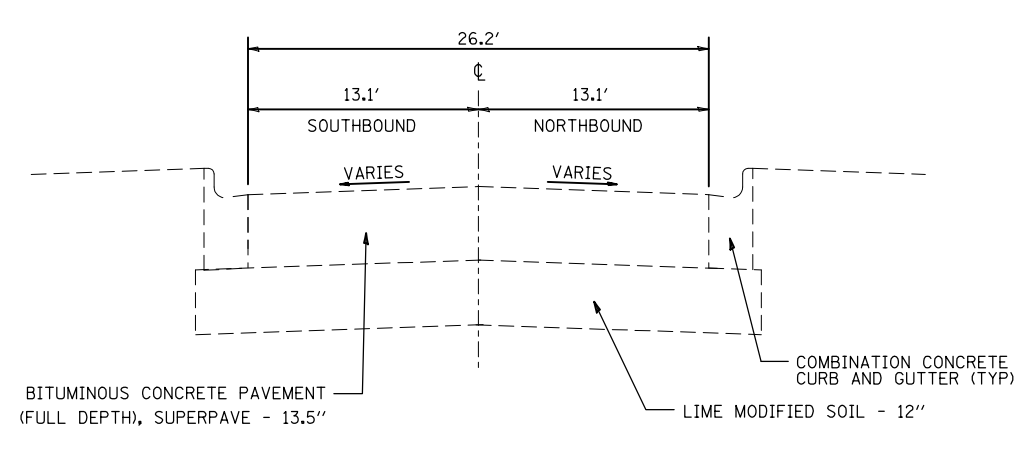
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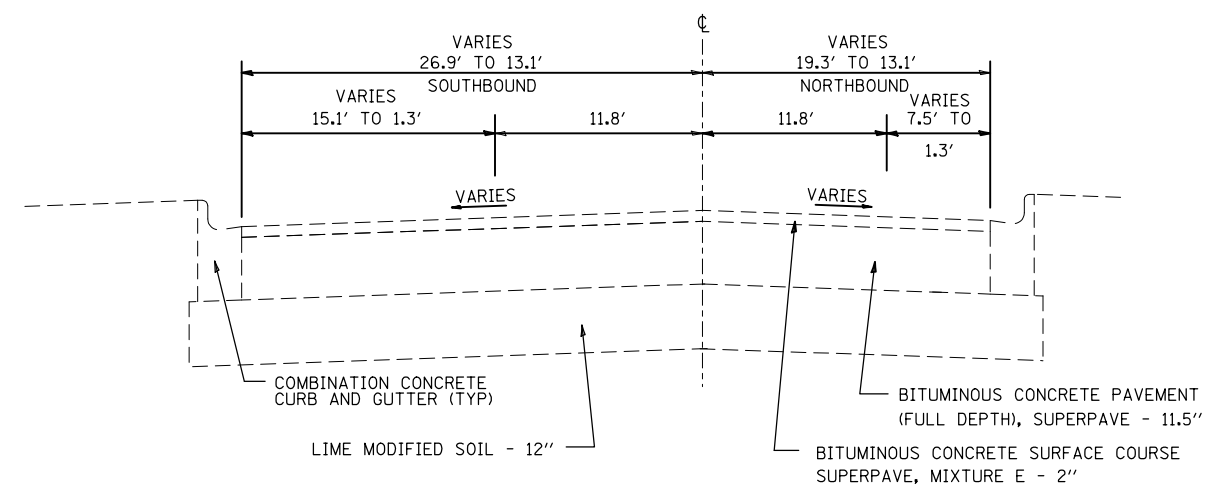
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 STA. 129+95.89 TO STA. 157+00.00



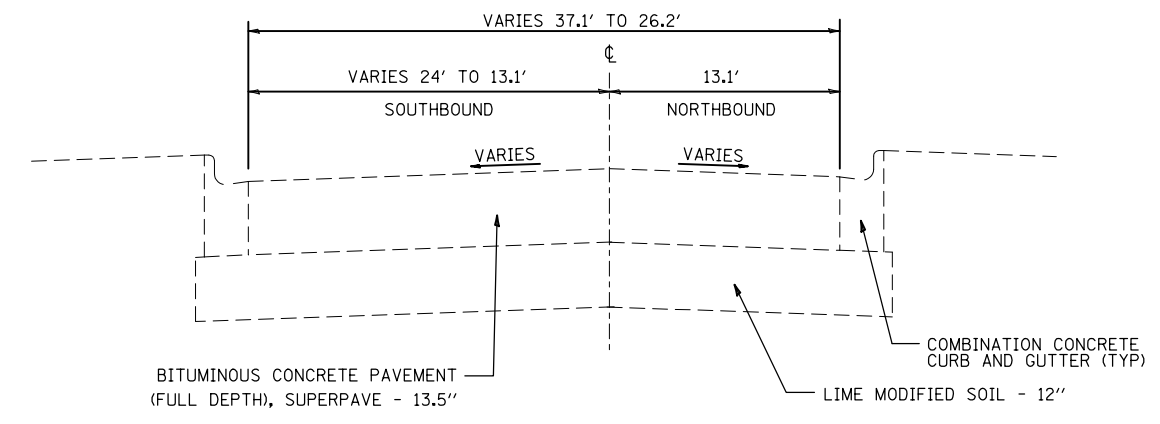
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 RELOCATED FAP 600 (IL RTE. 159)
 STA. 118+34.44 TO STA. 123+55.61



EXISTING TANGENT SECTION
 STA. 126+31.03 TO STA. 129+95.89
 STA. 157+00.00 TO STA. 174+23.13
 STA. 183+11.25 TO STA. 202+14.00



EXISTING TYPICAL SECTION
 STA. 123+55.61 TO STA. 126+31.03



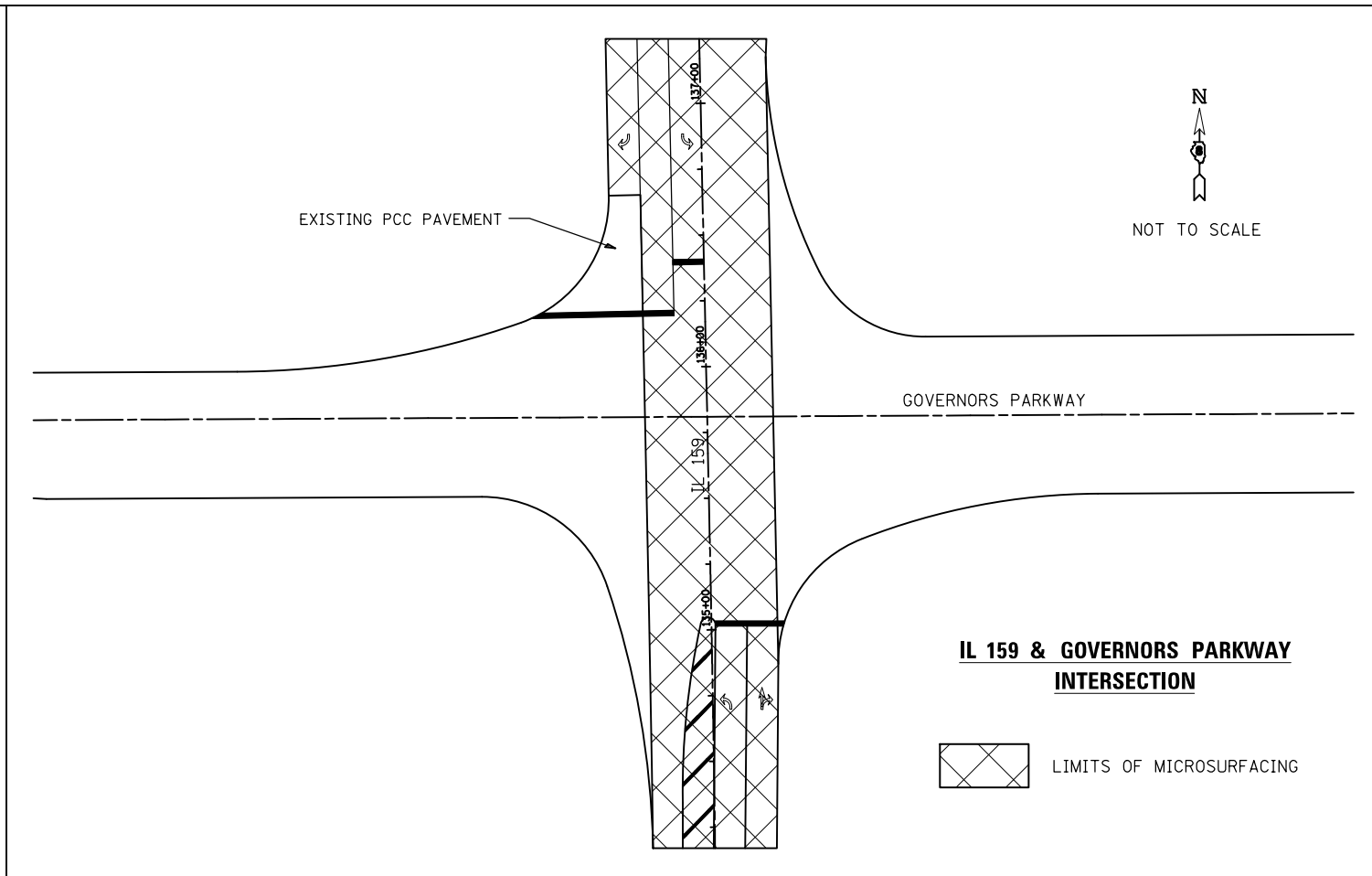
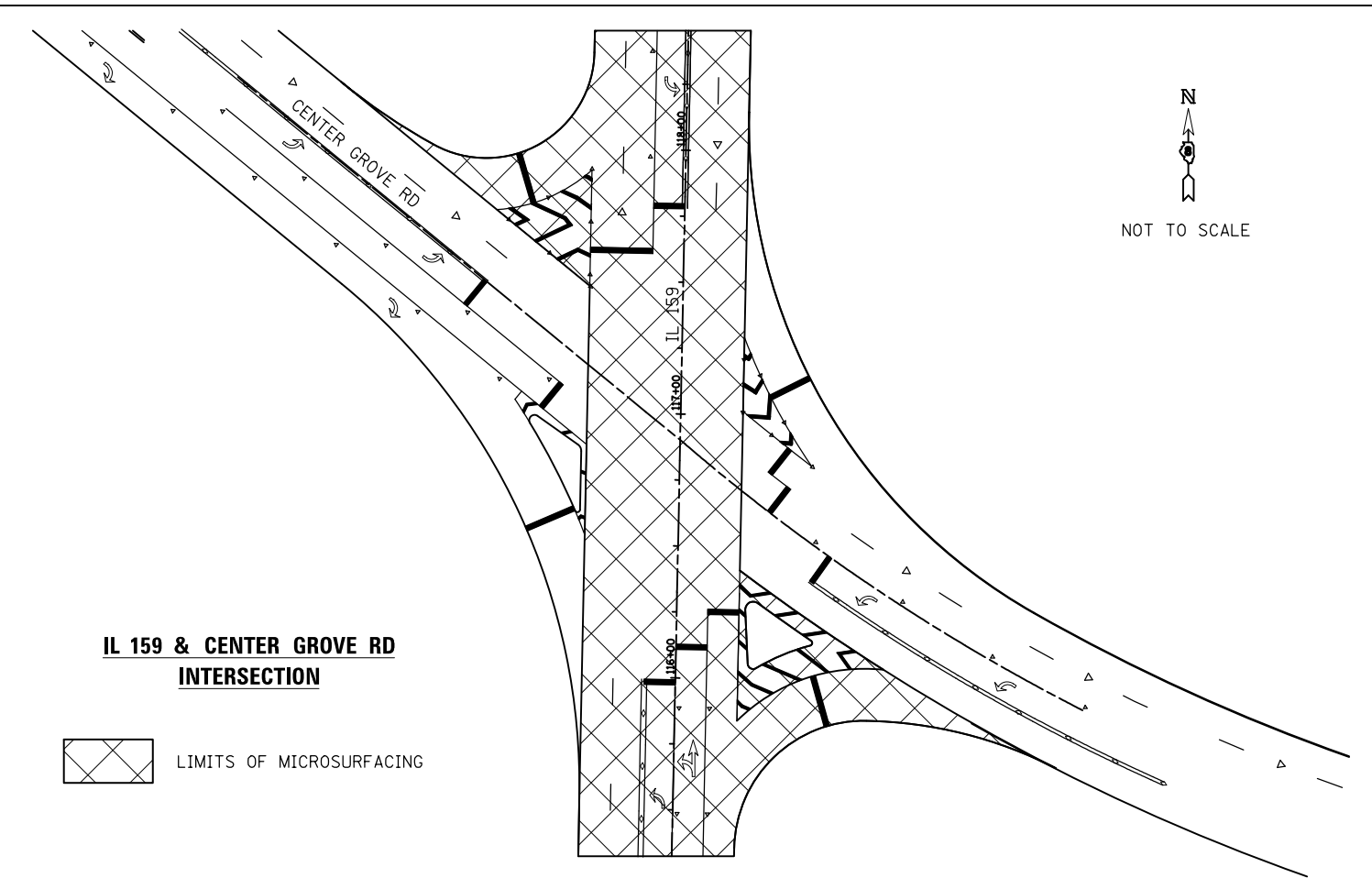
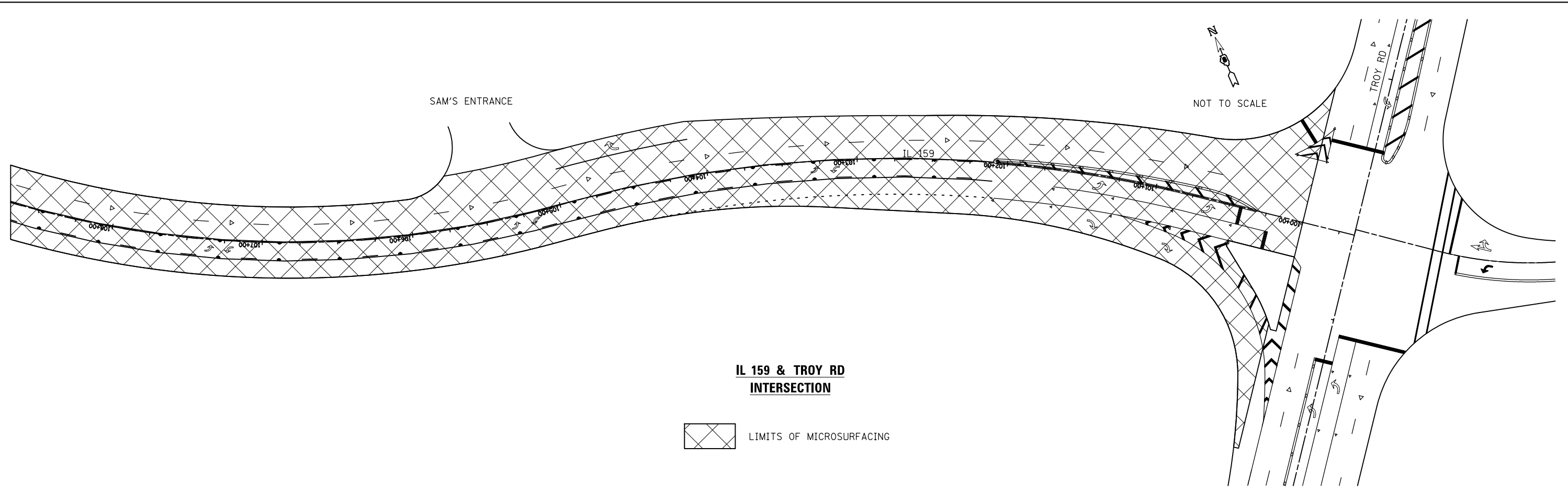
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
SCALE: N.T.S.	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	34-IRS-2	MADISON	9	5
CONTRACT NO. 76J35				
ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN DETAILS

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	34-IRS-2	MADISON	9	9
CONTRACT NO. 76J35				
ILLINOIS FED. AID PROJECT				