

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* 37 + 1 = 38 TOTAL SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	1
		ILLINOIS	CONTRACT NO. 76M73	

FOR INDEX OF SHEETS AND RESURFACING OMISSIONS, SEE SHEET NO. 2

**TRAFFIC DATA**

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL

**IL 161 TO SEIBERT RD.**  
2017 ADT (ACTUAL): 22,100  
2019 (ESTIMATED): 22,500  
2039 (ESTIMATED): 27,500  
SU: 5.3%  
MU: 1.7%

**SEIBERT RD. TO I-64**  
2017 ADT (ACTUAL): 19,500  
2019 (ESTIMATED): 19,900  
2039 (ESTIMATED): 24,300  
SU: 5.5%  
MU: 3.3%

**I-64 TO US 50**  
2017 ADT (ACTUAL): 22,100  
2019 (ESTIMATED): 22,500  
2039 (ESTIMATED): 27,500  
SU: 5.3%  
MU: 1.7%

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 674 (IL 158 /US 50)  
SECTION (31,410,410-1)RS-3  
PROJECT NHPP-Z681(333)  
RESURFACING-SMART ALONG IL 158 /US 50  
FROM US 50 TO IL 161  
ST. CLAIR COUNTY

C-98-106-19



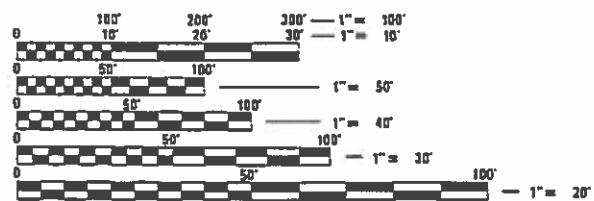
BEGIN IMPROVEMENT  
STA. 115+93  
38.583228°N  
89.874097°W

T 11 N

END IMPROVEMENT  
STA. 351+35  
38.519444°N  
89.883277°W



GROSS LENGTH = 23,542 FT. = 4.459 MILE  
NET LENGTH = 9239 FT. = 1.750 MILE



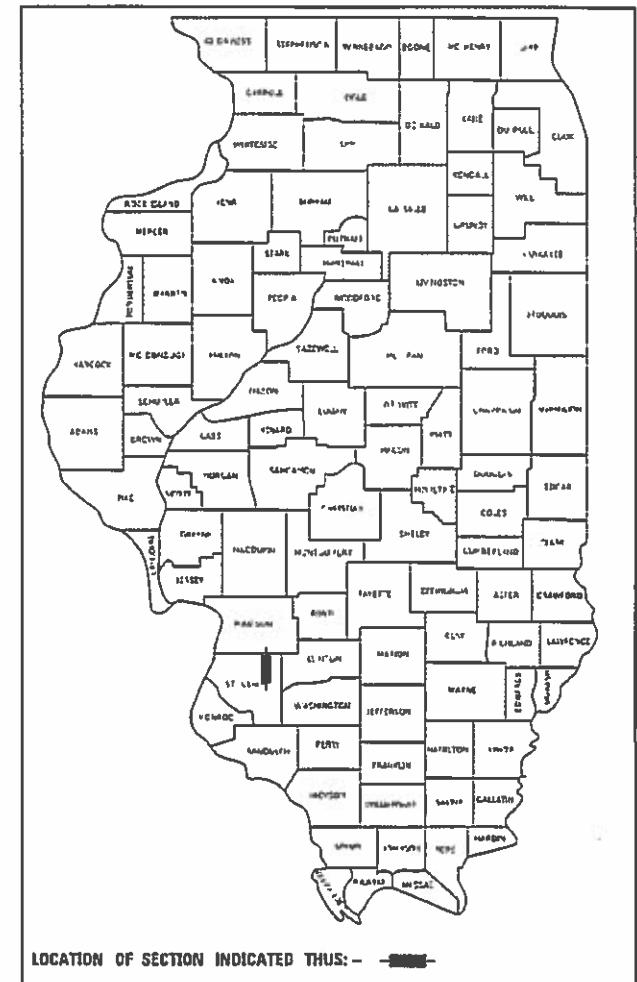
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS  
1-800-892-0123  
OR 611

PROJECT ENGINEER: TIM PADGETT (618)346-3325  
PROJECT MANAGER: DREW RUHOLL (618)346-3454

CONTRACT NO. 76M73

D-98-087-19



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 3, 2019  
*Keith Roberts*  
REGIONAL ENGINEER

June 14, 2019  
*Paul E. Chaffin*  
ENGINEER OF DESIGN AND ENVIRONMENT

June 14, 2019  
*Paul E. Chaffin*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

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2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS
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22	LOCATION MAP
23	RESURFACING DETAILS
24-37	ELECTRICAL PLANS

## HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATION ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
889006-01	TYPICAL LAYOUTS FOR DETECTOR LOOPS

## GENERAL NOTES

- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE 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
* ADB COMPANIES (COMMUNICATIONS)	X	X
* AMEREN ILLINOIS (GAS & ELECTRIC)	X	X
* AT&T ILLINOIS (COMMUNICATIONS)	X	X
* AT&T COPORATION (COMMUNICATIONS)	X	X
* CHARTER COMMUNICATIONS, INC. (CABLE TV)	X	X
* ILLINOIS AMERICAN WATER COMPANY (WATER)		X
* LEVEL 3 COMMUNICATIONS, LLC (COMMUNICATIONS)	X	X
* MASCOUTAH COMMUNITY UNIT SCHOOL DISTRICT # 19 (COMMUNICATIONS)	X	X
* MCI NETWROK SERVICES, INC. (COMMUNICATIONS)	X	X
* METRO (COMMUNICATIONS)	X	X
* CITY OF O'FALLON (WATER & SANITARY SEWER)		X
* SCOTT AIR FORCE BASE (WATER & SANITARY SEWER)		X
* SCOTT AIR FORCE BASE (GAS & ELECTRIC)	X	X
* VILLAGE OF SHILOH (SANITARY SEWER)		X
* WINDSTREAM KDL, INC. (COMMUNICATIONS)	X	X

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

- THE DEPARTMENT 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 IN 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. 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 METTING WORKFORCE AND TRAINEE GOALS.
- ALL AREAS DISTURBED FOR ANY REASON OTHER THAN PROPOSED ON PLANS AND SCHEDULES SHALL BE PERMANENTLY SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
- 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.
- 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.
- AN ESTIMATED QUANTITY OF 5,420 TONS OF CUTTINGS FROM THE HOT-MIX ASPHALT SURFACE REMOVAL OPERATION IS ANTICIPATED.
- MTD CAN OPERATE IN AN UNLOADED CONDITION ON SN 082-0345, SN 082-0210, SN 082-2421, SN 082-2422, SN 082-2423, SN 082-2424, SN 082-2425, SN 082-2552, SN 082-0183, SN 082-0184, SN 082-2431. SEE LOCATION MAP FOR APPROXIMATE STRUCTURE LOCATIONS.
- THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- IF THE SURFACE REMOVAL ON THIS PROJECT PRODUCES A MILLED EDGE NEAR ANYWHERE GREATER THAN 1.5 INCHES OR IF THE PROPOSED RESURFACING RESULTS IN AN ELEVATION DIFFERENCE GREATER THAN 2 INCHES NEAR THE CENTERLINE BETWEEN ADJACENT OPEN LANES OF TRAFFIC, ONE OF THE FOLLOWING SHALL APPLY:
  - THE CONTRACTOR SHALL ORGANIZE THE WORK TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
  - THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY HOT MIX ASPHALT WEDGE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
  - THE CONTRACTOR SHALL CONSTRUCT A MILLED SLOPED EDGE (MINIMUM 1:3) TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.

THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST PER SQUARE YARD FOR HOT-MIX ASPHALT SURFACE REMOVAL OF THE DEPTH SPECIFIED.

## GENERAL NOTES CONT.

- WITHIN THE INTERSECTION OF IL 158/US 50 & WHERRY RD./MAPLE ST. AND THE INTERSECTION OF IL 158/US 50 & SEIBERT RD.,THE CONTRACTOR SHALL REPLACE THE EXISTING HMA MATERIAL WITH THE PROPOSED HMA SURFACE COURSE MATERIALS WITHIN THE SAME DAY OF OPERATION BEFORE TRAFFIC IS OPENED ONTO THE LANE, UNLESS DIRECTED BY THE ENGINEER.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE	POLY SURFACE
AC/PG	PG 64-22	SBS PG 76-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90
MIX COMPOSITION (Gradation)	IL 9.5	IL 9.5
FRICTION AGG	MIXTURE "D"	MIXTURE "D"
QUALITY MGMT PROGRAM	QCP	QCP

PLAN QUANTITIES FOR HMA ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN

- THE BARE CONCRETE SECTIONS OF IL 158/US 50 WITHIN THE PROJECT LIMITS SHALL BE OMITTED.

RESURFACING OMISSIONS (CONCRETE SECTIONS OF IL 158/US 50)					
NORTHBOUND			SOUTHBOUND		
137+21	TO	151+22	134+49	TO	151+22
152+34	TO	154+90	152+34	TO	154+90
156+00	TO	188+80	156+00	TO	188+80
206+76	TO	237+70	206+76	TO	237+70
254+35	TO	288+20	254+35	TO	289+10
297+26	TO	300+14	297+33	TO	299+95
306+75	TO	333+25	307+00	TO	336+48

- FOUR CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED ALONG IL 158/US 50 TO ALERT DRIVERS OF THE ROAD CONSTRUCTION. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED 14 DAYS PRIOR TO BEGINNING ANY WORK. EXACT LOCATIONS OF THE CHANGEABLE MESSAGE SIGNS SHALL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL TIMES. SEE ALSO SPECIAL PROVISION "HOT-MIX ASPHALT SURFACE REMOVAL WITH SKETCH OF ILLINOIS STANDARD W8-1107".

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### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

### INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	2
				CONTRACT NO. 76M73
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE	
				ROADWAY	
				0005	URBAN
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	27261	27261	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	990	990	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1323	1323	
40600990	TEMPORARY RAMP	SQ YD	661	661	
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	5089	5089	
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	339	339	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	59142	59142	
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2199	2199	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	
67100100	MOBILIZATION	L SUM	1	1	
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1	
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	6	6	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE	
				ROADWAY	
				0005	URBAN
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56	
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	6448	6448	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1305	1305	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	230	230	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	47166	47166	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1488	1488	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	216	216	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	222	222	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	230	230	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	47166	47166	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1488	1488	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	216	216	

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

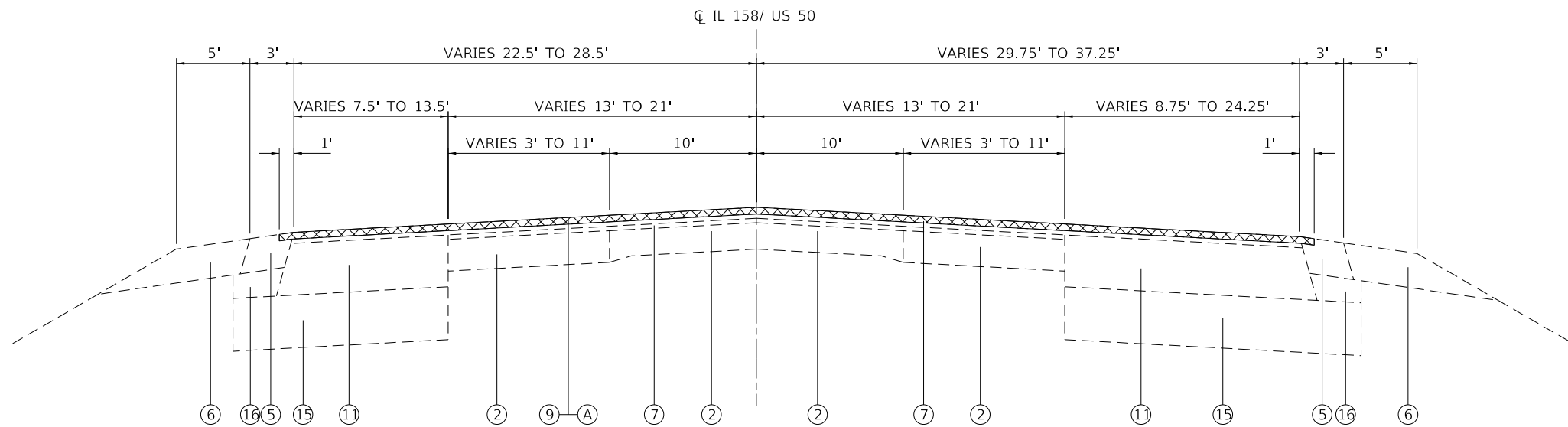
**SUMMARY OF QUANTITIES**

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76M73				
ILLINOIS FED. AID PROJECT				





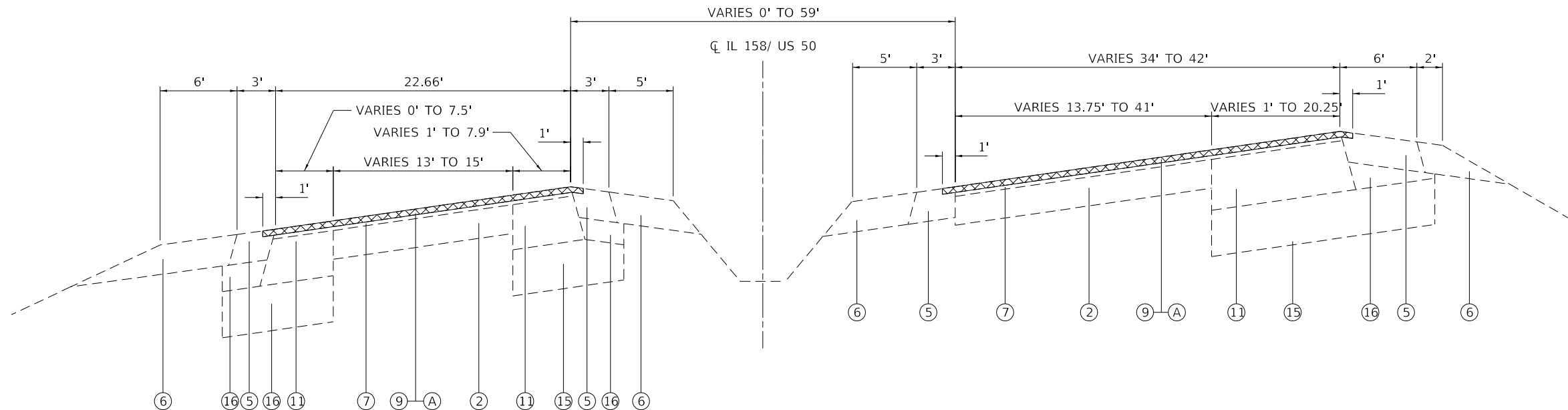


**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 115+93 TO STA. 126+69.64

**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 115+93 TO STA. 126+69.64



**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 126+69 TO STA. 137+21

**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 126+69.64 TO STA. 134+49

**LEGEND**

- ① EXISTING PCC PAVEMENT 8"
- ② EXISTING PAVEMENT (DEPTH UNKNOWN)
- ③ EXISTING CURB & GUTTER
- ④ EXISTING GRANULAR SUBBASE, 4"
- ⑤ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
- ⑥ EXISTING AGGREGATE SHOULDERS, 8"
- ⑦ EXISTING LEVELING BINDER, 1"
- ⑧ EXISTING LEVELING BINDER, 3/4"
- ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑩ EXISTING HOT-MIX ASPHALT BINDER COURSE, VARIES 0"-19"
- ⑪ EXISTING HOT-MIX ASPHALT BINDER COURSE, 12"
- ⑫ EXISTING AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑬ EXISTING PORTLAND CEMENT CONCRETE BASE COURSE, 8"
- ⑭ EXISTING AGGREGATE BASE COURSE, TYPE A 4"
- ⑮ EXISTING LIME MODIFIED SOIL 12"
- ⑯ EXISTING SUBBASE GRANULAR MATERIAL, TYPE C OR UNDISTURBED IMPROVED SUBGRADE
- A PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- B PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
- C PROPOSED BITUMINOUS MATERIALS TACK COAT
- D PROPOSED LONGITUDINAL JOINT SEALANT

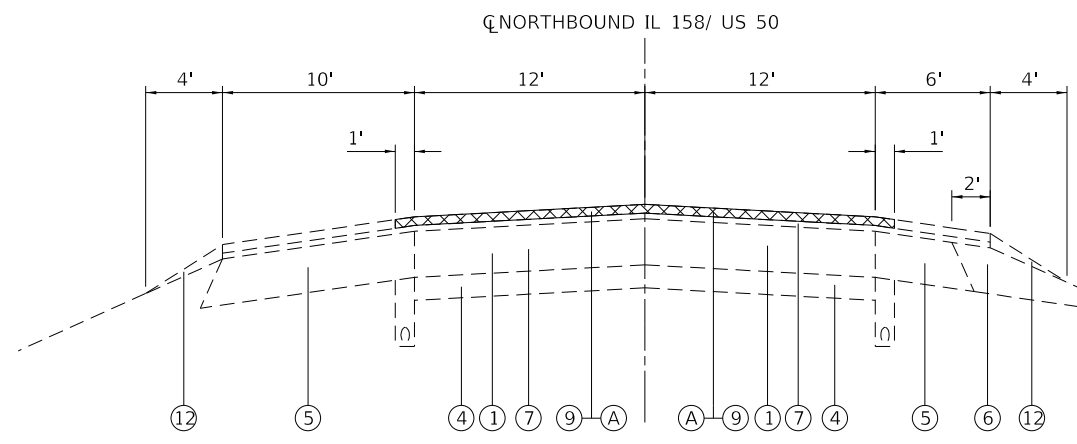
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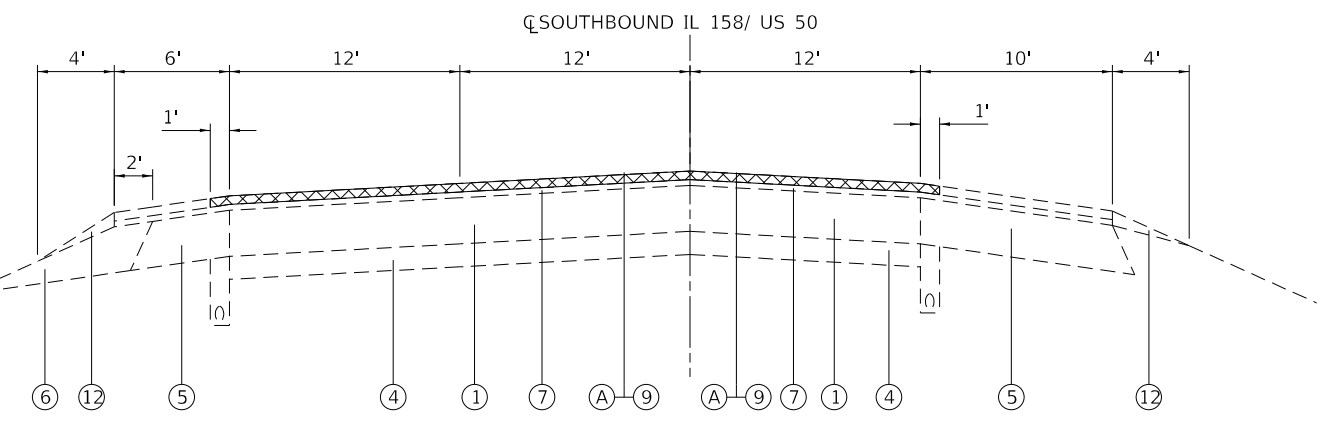
<b>TYPICAL SECTIONS</b>			
SCALE:	SHEET 1	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	4
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ILLINOIS		FED. AID PROJECT		



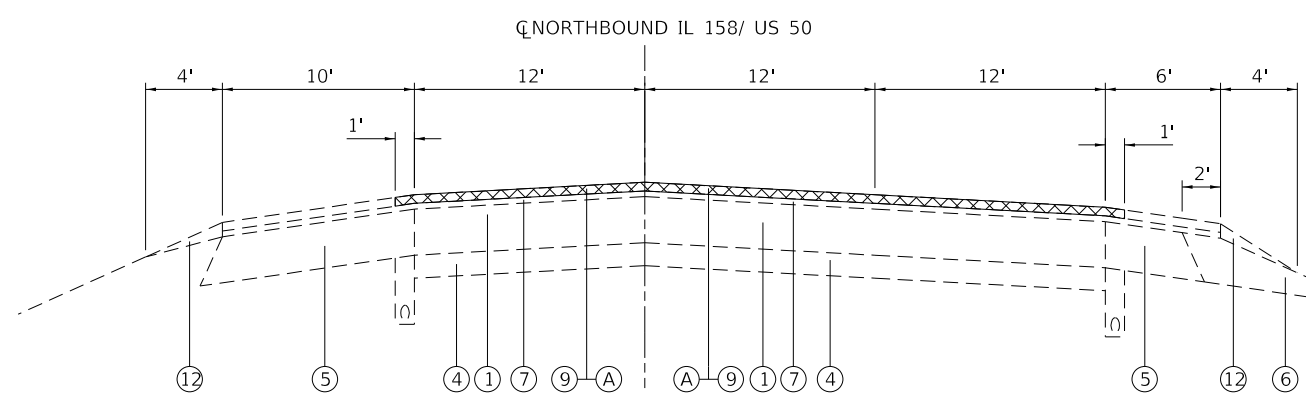
**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 189+30 TO STA. 194+27  
 STA. 237+70 TO STA. 243+00  
 STA. 342+00 TO STA. 351+35



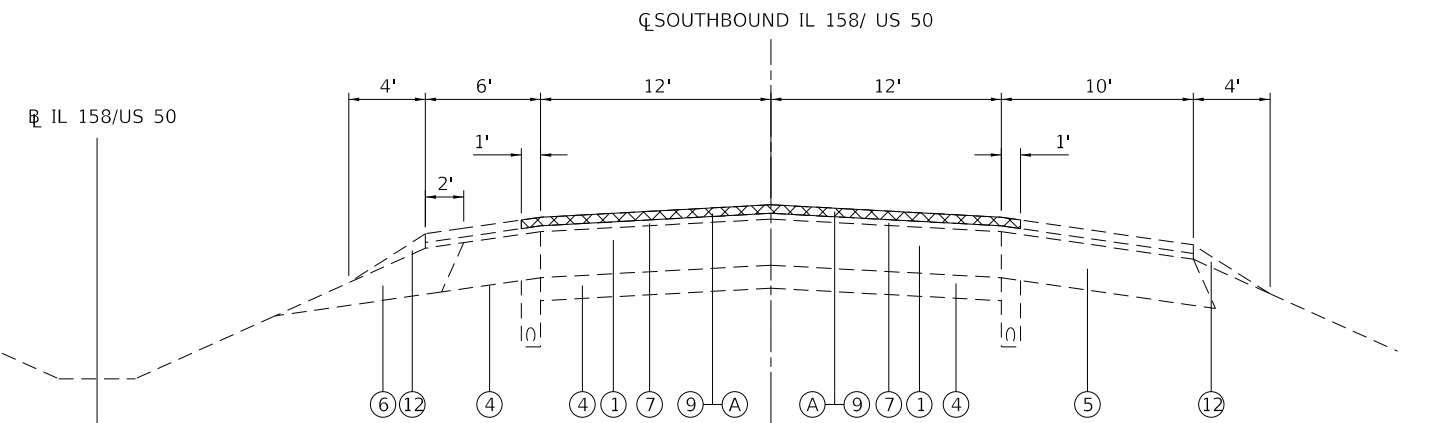
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STA. 189+30 TO STA. 194+27  
 STA. 237+70 TO STA. 242+38  
 STA. 342+00 TO STA. 351+35



**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 204+60 TO STA. 206+76  
 STA. 250+60 TO STA. 253+85



**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 204+60 TO STA. 206+76  
 STA. 248+50 TO STA. 254+35

**LEGEND**

- ① EXISTING PCC PAVEMENT 8"
- ② EXISTING PAVEMENT (DEPTH UNKNOWN)
- ③ EXISTING CURB & GUTTER
- ④ EXISTING GRANULAR SUBBASE, 4"
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- ⑯ EXISTING SUBBASE GRANULAR MATERIAL, TYPE C OR UNDISTURBED IMPROVED SUBGRADE
- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
- Ⓒ PROPOSED BITUMINOUS MATERIALS TACK COAT
- Ⓓ PROPOSED LONGITUDINAL JOINT SEALANT

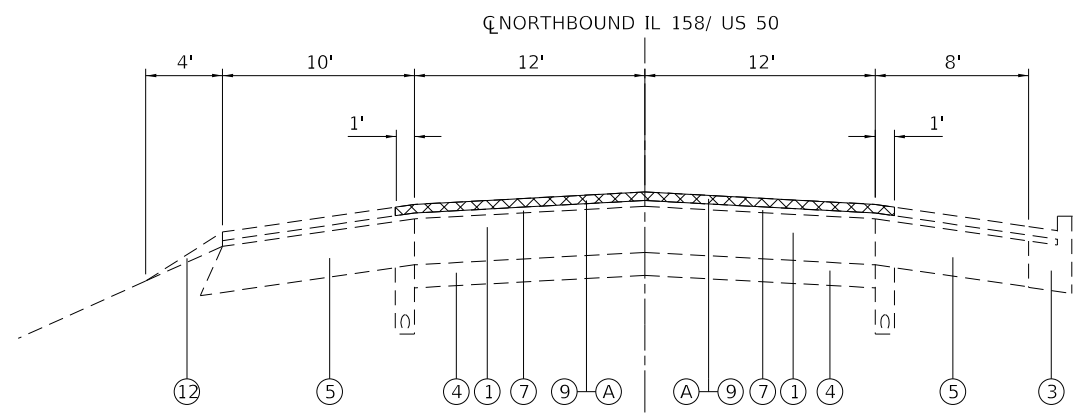
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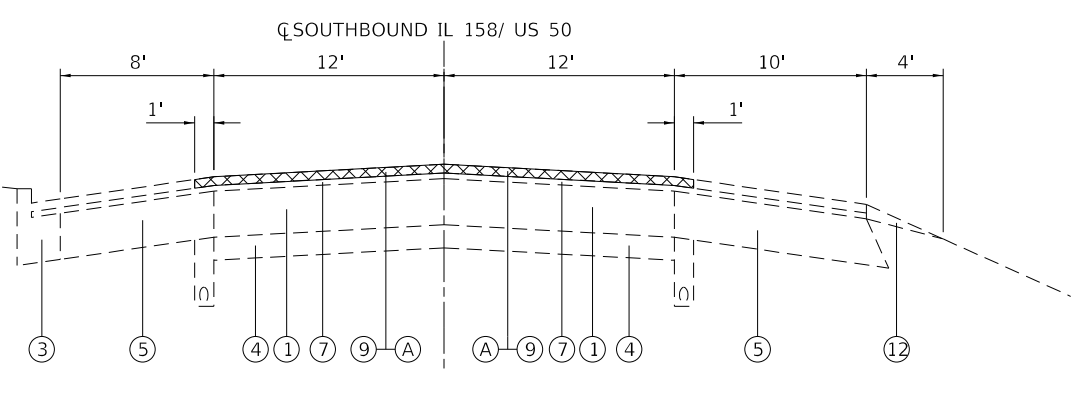
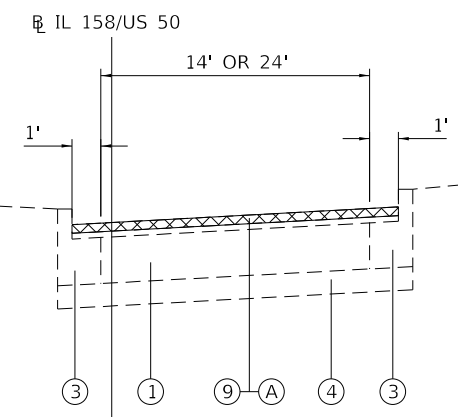
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SCALE:	SHEET 2 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76M73				
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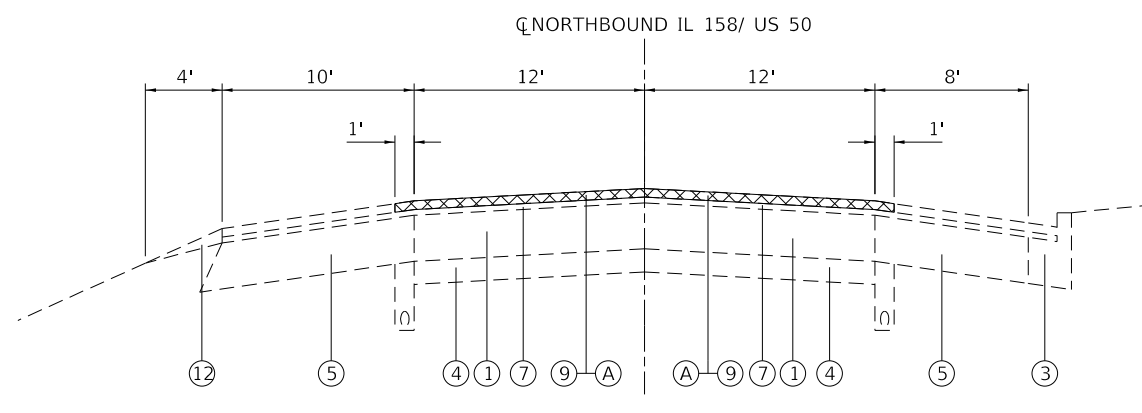
**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 194+27 TO STA. 197+80  
 STA. 243+00 TO STA. 246+20 (SEE NOTE)



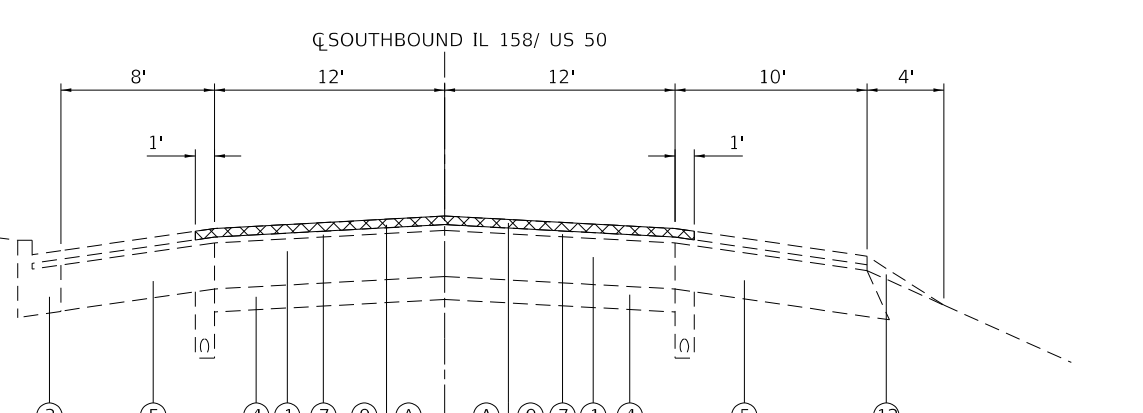
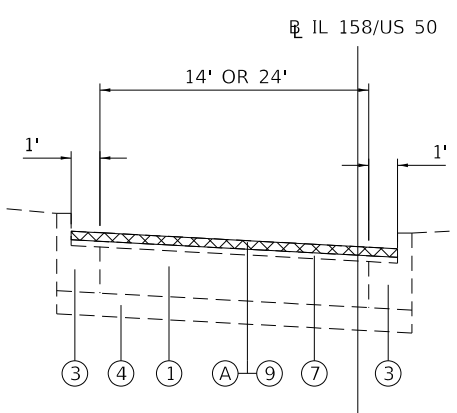
**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 194+27 TO STA. 197+80  
 STA. 242+38 TO STA. 246+20 (SEE NOTE)



**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 246+20 TO STA. 250+60 (SEE NOTE)



**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 246+20 TO STA. 248+50 (SEE NOTE)

NOTE: NB STA. 245+80 TO STA. 248+57  
 SB STA 243+80 TO STA. 246+57

THIS SECTION OF IL 158/US 50 IS EXPERIENCING SIGNIFICANT RUTTING.  
 2 3/4" RESURFACING WITH POLYMERIZED MATERIALS SHALL BE REQUIRED  
 AT THIS LOCATION. SEE RESURFACING DETAILS AND INTERSECTION DETAILS.

**LEGEND**

- ① EXISTING PCC PAVEMENT 8"
- ② EXISTING PAVEMENT (DEPTH UNKNOWN)
- ③ EXISTING CURB & GUTTER
- ④ EXISTING GRANULAR SUBBASE, 4"
- ⑤ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
- ⑥ EXISTING AGGREGATE SHOULDERS, 8"
- ⑦ EXISTING LEVELING BINDER, 1"
- ⑧ EXISTING LEVELING BINDER, 3/4"
- ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑩ EXISTING HOT-MIX ASPHALT BINDER COURSE, VARIES 0"-19"
- ⑪ EXISTING HOT-MIX ASPHALT BINDER COURSE, 12"
- ⑫ EXISTING AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑬ EXISTING PORTLAND CEMENT CONCRETE BASE COURSE, 8"
- ⑭ EXISTING AGGREGATE BASE COURSE, TYPE A 4"
- ⑮ EXISTING LIME MODIFIED SOIL 12"
- ⑯ EXISTING SUBBASE GRANULAR MATERIAL, TYPE C OR UNDISTURBED IMPROVED SUBGRADE
- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
- Ⓒ PROPOSED BITUMINOUS MATERIALS TACK COAT
- Ⓓ PROPOSED LONGITUDINAL JOINT SEALANT

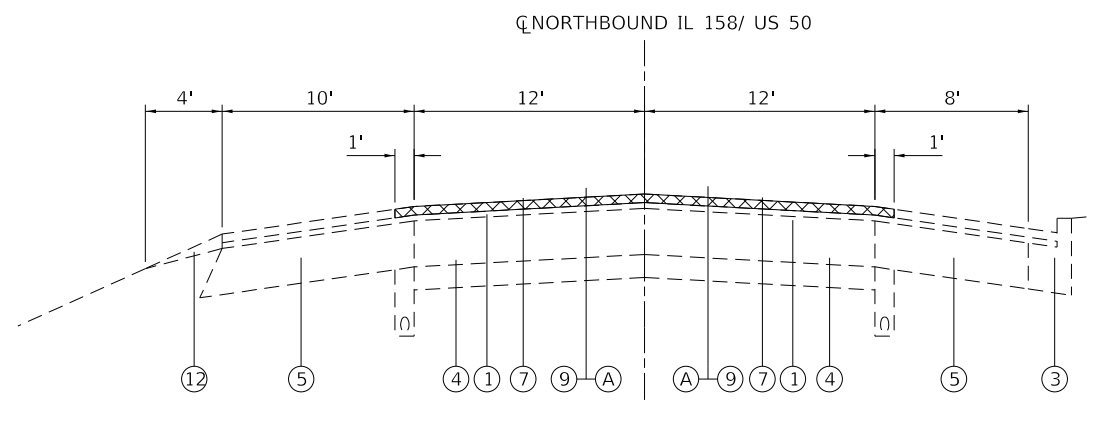
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	DRAWN -	REVISED -
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PLOT DATE = 6/2/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

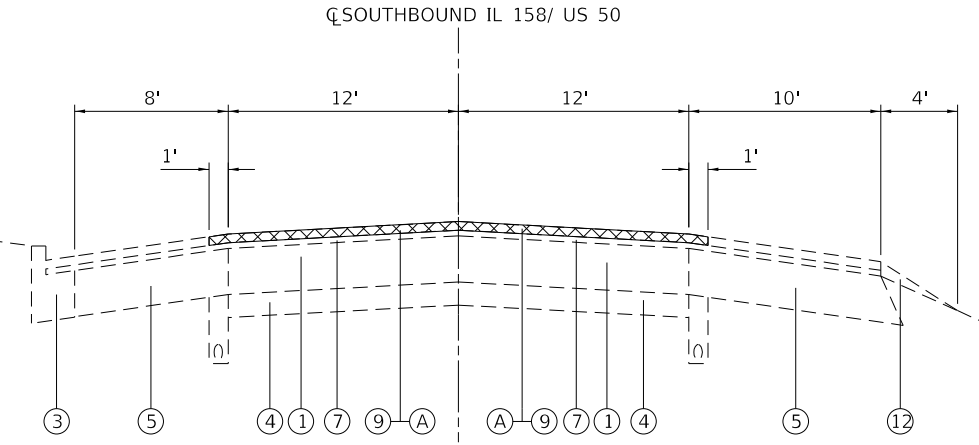
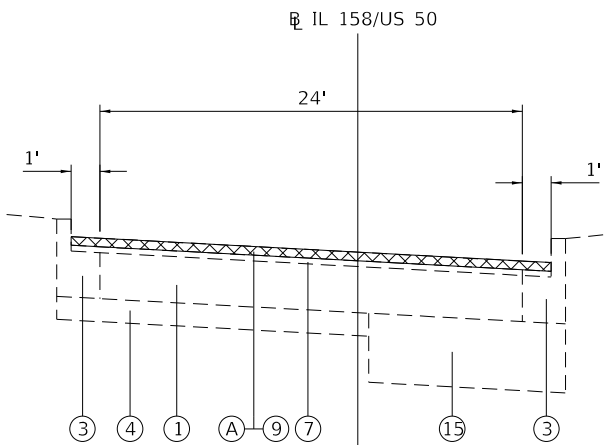
<b>TYPICAL SECTIONS</b>			
SCALE:	SHEET 3	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76M73	



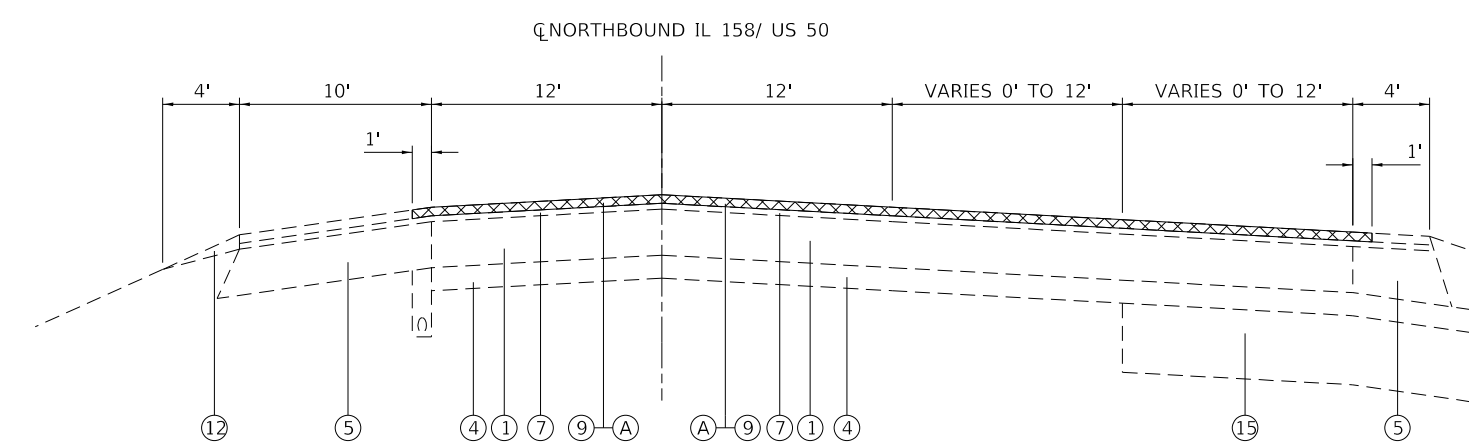
**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 197+80 TO STA. 201+25



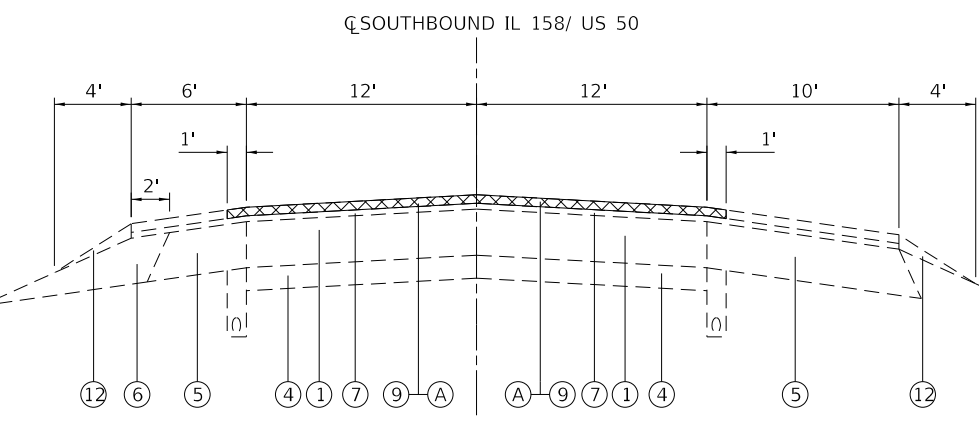
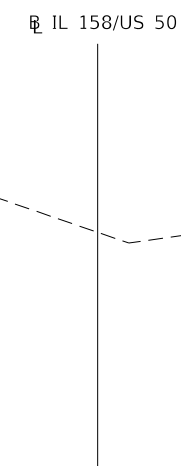
**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 197+80 TO STA. 201+25



**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 201+25 TO STA. 204+60



**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 201+25 TO STA. 204+60

**LEGEND**

- ① EXISTING PCC PAVEMENT 8"
- ② EXISTING PAVEMENT (DEPTH UNKNOWN)
- ③ EXISTING CURB & GUTTER
- ④ EXISTING GRANULAR SUBBASE, 4"
- ⑤ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
- ⑥ EXISTING AGGREGATE SHOULDERS, 8"
- ⑦ EXISTING LEVELING BINDER, 1"
- ⑧ EXISTING LEVELING BINDER, 3/4"
- ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑩ EXISTING HOT-MIX ASPHALT BINDER COURSE, VARIES 0"-19"
- ⑪ EXISTING HOT-MIX ASPHALT BINDER COURSE, 12"
- ⑫ EXISTING AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑬ EXISTING PORTLAND CEMENT CONCRETE BASE COURSE, 8"
- ⑭ EXISTING AGGREGATE BASE COURSE, TYPE A 4"
- ⑮ EXISTING LIME MODIFIED SOIL 12"
- ⑯ EXISTING SUBBASE GRANULAR MATERIAL, TYPE C OR UNDISTURBED IMPROVED SUBGRADE
- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
- Ⓒ PROPOSED BITUMINOUS MATERIALS TACK COAT
- Ⓓ PROPOSED LONGITUDINAL JOINT SEALANT

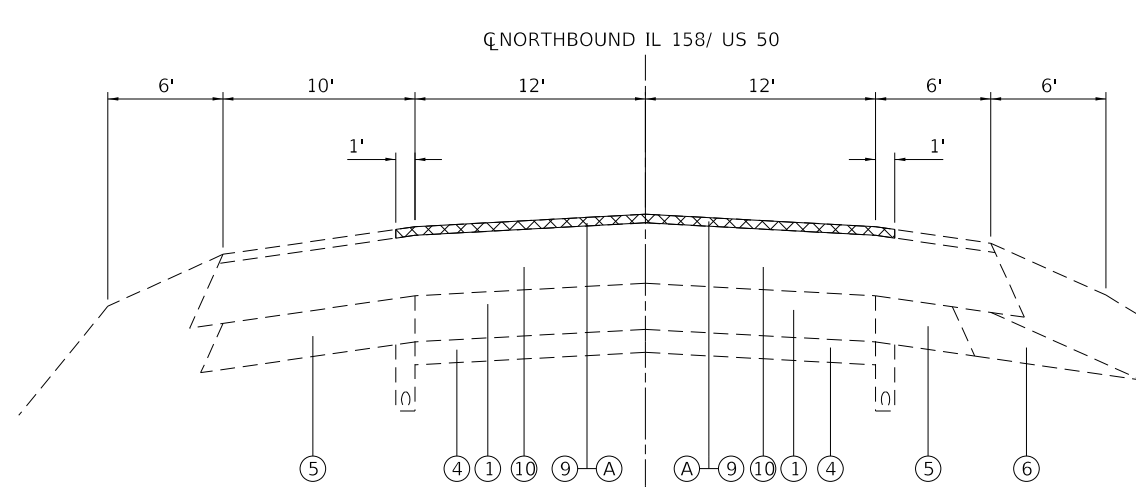
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	DRAWN -	REVISED -
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PLOT DATE = 6/2/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

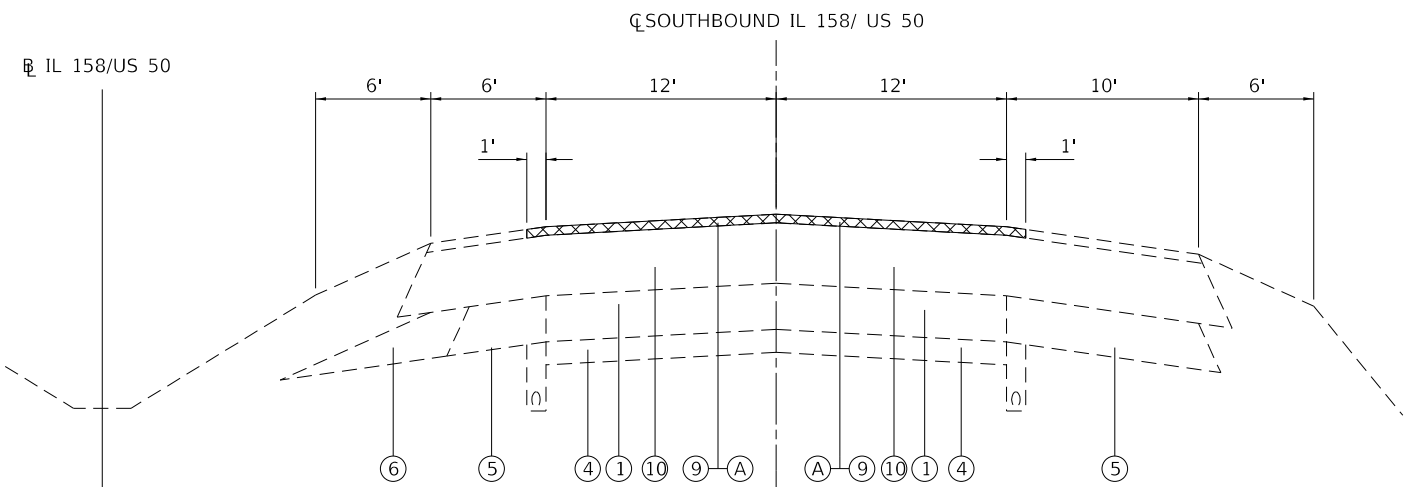
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SCALE:	SHEET 4	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76M73				
ILLINOIS		FED. AID PROJECT		



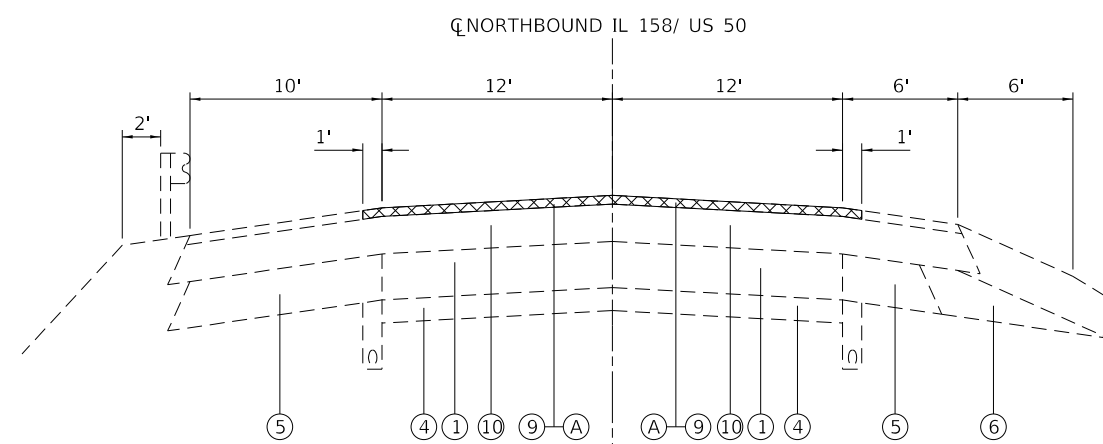
**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 288+20 TO STA. 297+26



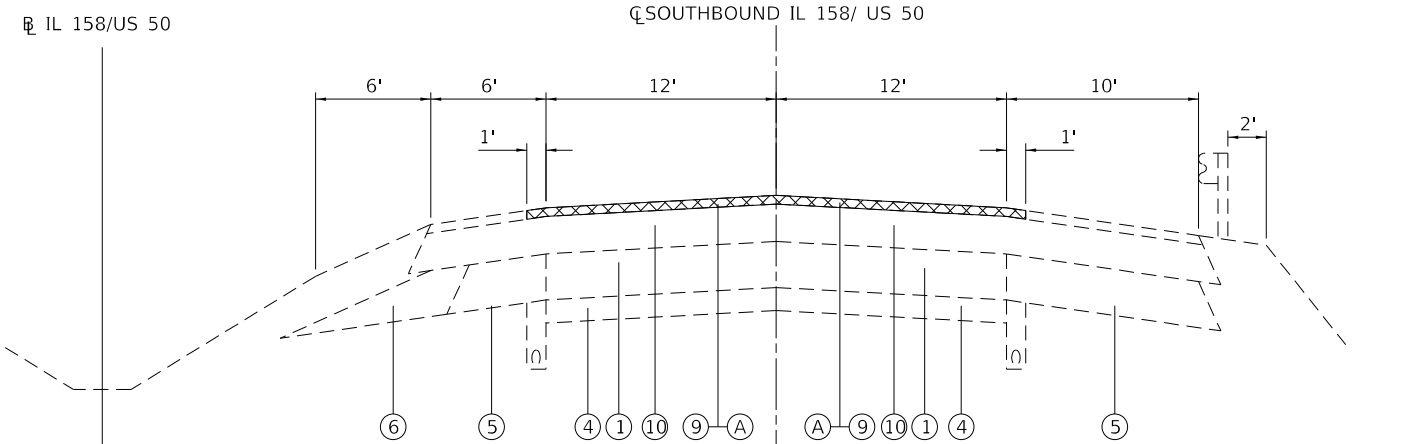
**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 289+10 TO STA. 297+33



**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 300+14 TO STA. 306+75



**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 299+95 TO STA. 307+00

**LEGEND**

- ① EXISTING PCC PAVEMENT 8"
- ② EXISTING PAVEMENT (DEPTH UNKNOWN)
- ③ EXISTING CURB & GUTTER
- ④ EXISTING GRANULAR SUBBASE, 4"
- ⑤ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
- ⑥ EXISTING AGGREGATE SHOULDERS, 8"
- ⑦ EXISTING LEVELING BINDER, 1"
- ⑧ EXISTING LEVELING BINDER, 3/4"
- ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑩ EXISTING HOT-MIX ASPHALT BINDER COURSE, VARIES 0"-19"
- ⑪ EXISTING HOT-MIX ASPHALT BINDER COURSE, 12"
- ⑫ EXISTING AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑬ EXISTING PORTLAND CEMENT CONCRETE BASE COURSE, 8"
- ⑭ EXISTING AGGREGATE BASE COURSE, TYPE A 4"
- ⑮ EXISTING LIME MODIFIED SOIL 12"
- ⑯ EXISTING SUBBASE GRANULAR MATERIAL, TYPE C OR UNDISTURBED IMPROVED SUBGRADE
- (A) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- (B) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
- (C) PROPOSED BITUMINOUS MATERIALS TACK COAT
- (D) PROPOSED LONGITUDINAL JOINT SEALANT

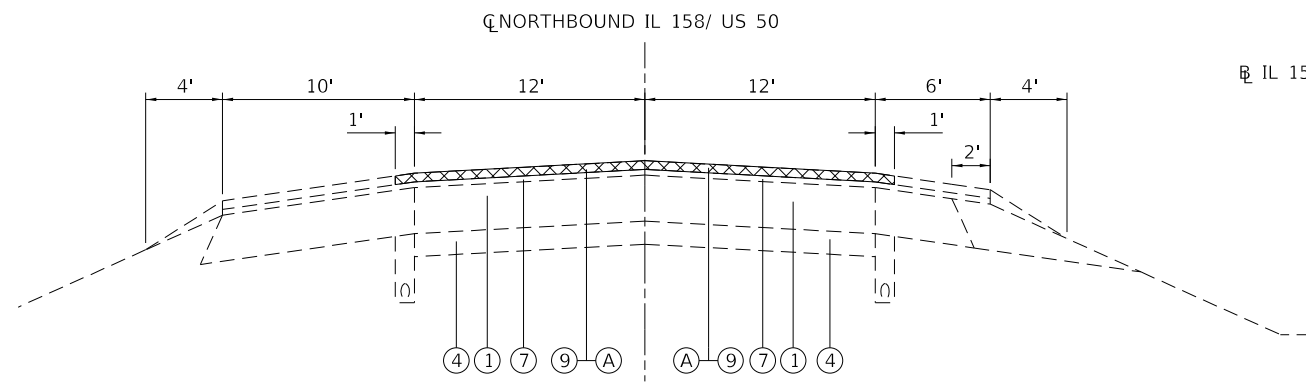
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

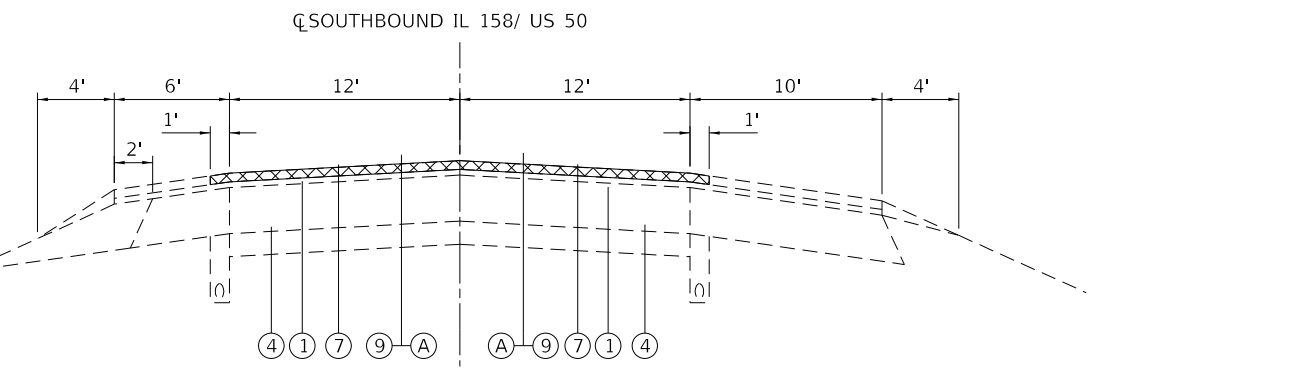
<b>TYPICAL SECTIONS</b>			
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	8
CONTRACT NO. 76M73				
ILLINOIS		FED. AID PROJECT		



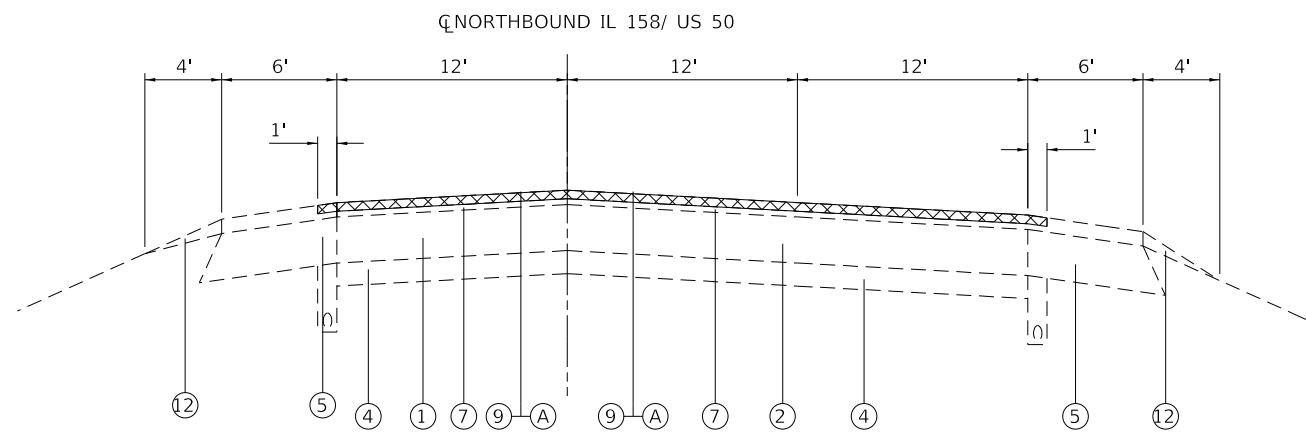
**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 188+80 TO STA. 189+30  
 STA. 333+25 TO STA. 342+00  
 STA. 253+85 TO STA. 254+35



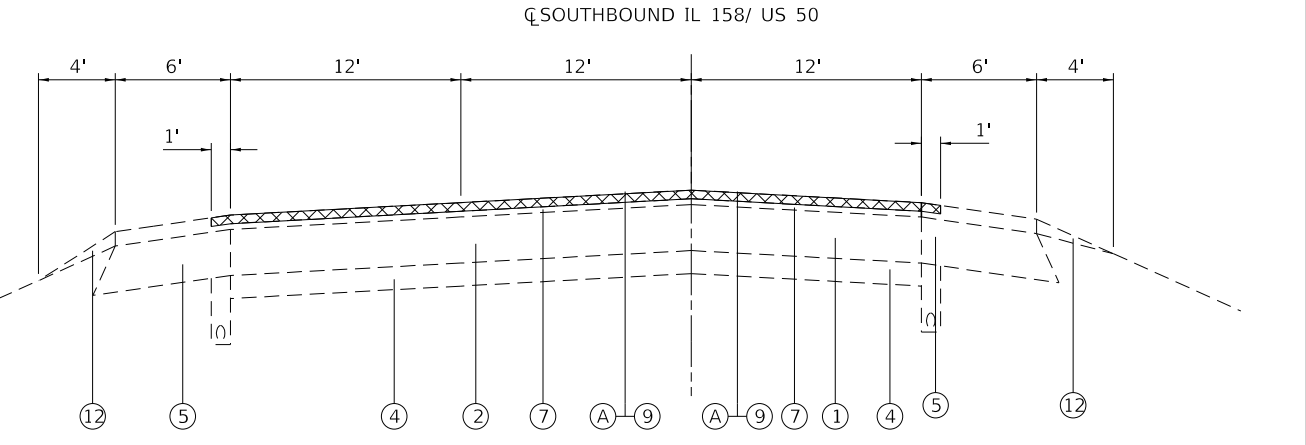
**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 188+80 TO STA. 189+30  
 STA. 237+70 TO STA. 238+20  
 STA. 336+48 TO STA. 342+00



**EXISTING NORTHBOUND TYPICAL SECTION**

STA. 151+22 TO STA. 152+34  
 STA. 154+90 TO STA. 156+00



**EXISTING SOUTHBOUND TYPICAL SECTION**

STA. 151+22 TO STA. 152+34  
 STA. 154+90 TO STA. 156+00

**LEGEND**

- ① EXISTING PCC PAVEMENT 8"
- ② EXISTING PAVEMENT (DEPTH UNKNOWN)
- ③ EXISTING CURB & GUTTER
- ④ EXISTING GRANULAR SUBBASE, 4"
- ⑤ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
- ⑥ EXISTING AGGREGATE SHOULDERS, 8"
- ⑦ EXISTING LEVELING BINDER, 1"
- ⑧ EXISTING LEVELING BINDER, 3/4"
- ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑩ EXISTING HOT-MIX ASPHALT BINDER COURSE, VARIES 0"-19"
- ⑪ EXISTING HOT-MIX ASPHALT BINDER COURSE, 12"
- ⑫ EXISTING AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑬ EXISTING PORTLAND CEMENT CONCRETE BASE COURSE, 8"
- ⑭ EXISTING AGGREGATE BASE COURSE, TYPE A 4"
- ⑮ EXISTING LIME MODIFIED SOIL 12"
- ⑯ EXISTING SUBBASE GRANULAR MATERIAL, TYPE C OR UNDISTURBED IMPROVED SUBGRADE
- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
- Ⓒ PROPOSED BITUMINOUS MATERIALS TACK COAT
- Ⓓ PROPOSED LONGITUDINAL JOINT SEALANT

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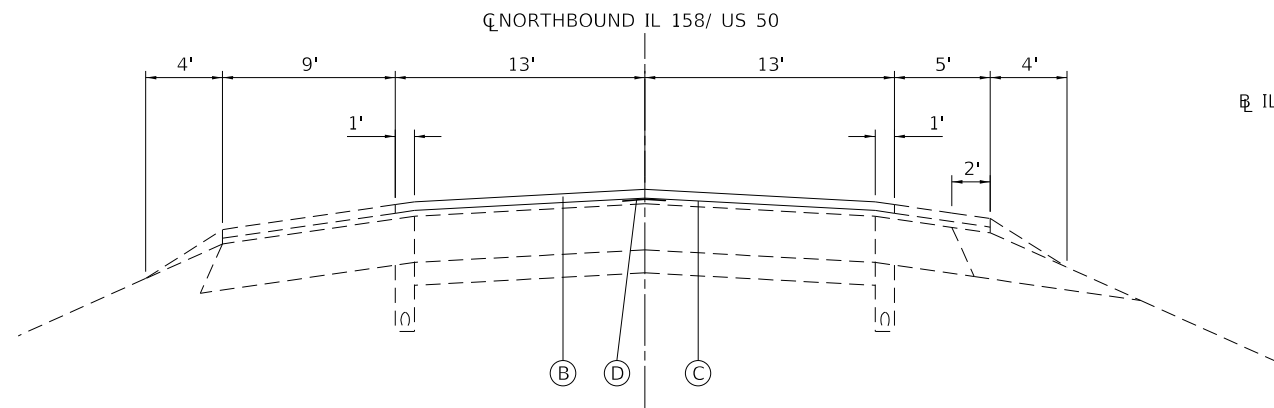
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE:	SHEET 6 OF 12 SHEETS STA. TO STA.

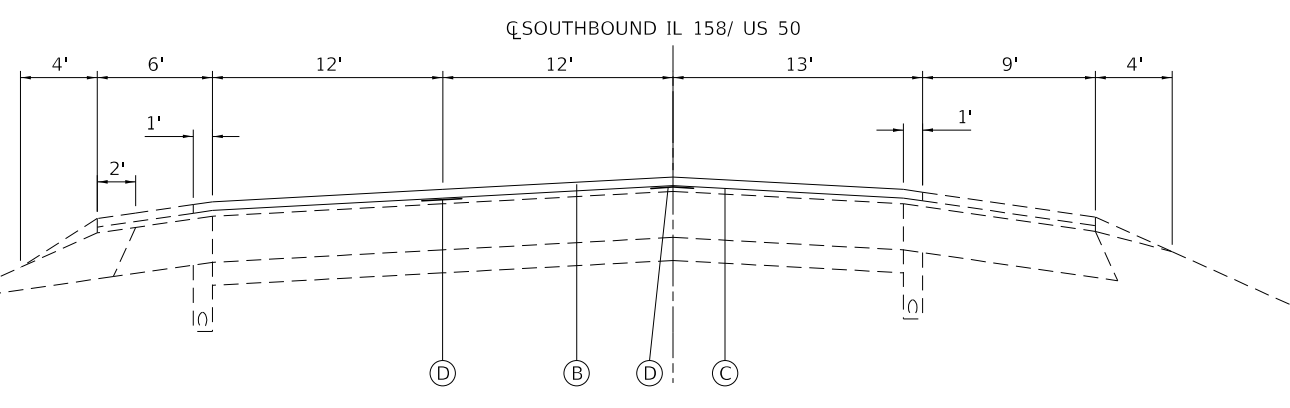
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CONTRACT NO. 76M73			ILLINOIS FED. AID PROJECT	





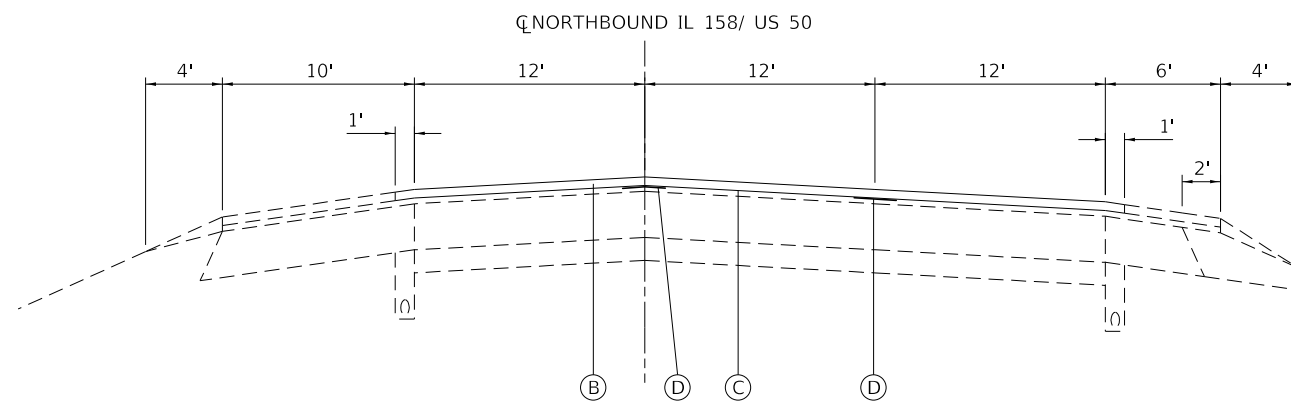
**PROPOSED NORTHBOUND TYPICAL SECTION**

STA. 189+30 TO STA. 194+27  
 STA. 237+70 TO STA. 243+00  
 STA. 342+00 TO STA. 351+35



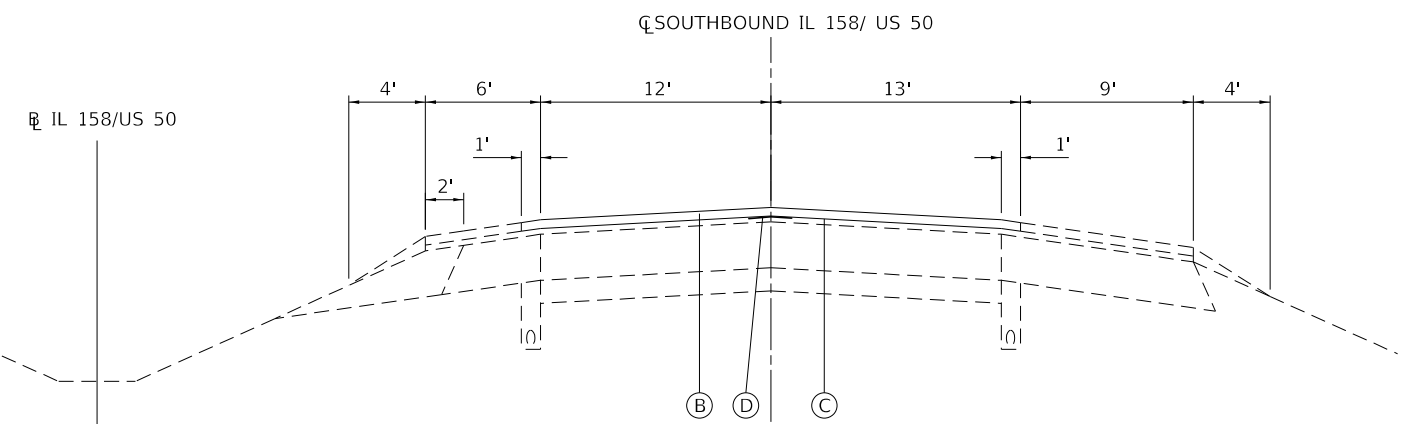
**PROPOSED SOUTHBOUND TYPICAL SECTION**

STA. 189+30 TO STA. 194+27  
 STA. 237+70 TO STA. 242+38  
 STA. 342+00 TO STA. 351+35



**PROPOSED NORTHBOUND TYPICAL SECTION**

STA. 204+60 TO STA. 206+76  
 STA. 250+60 TO STA. 253+85



**PROPOSED SOUTHBOUND TYPICAL SECTION**

STA. 204+60 TO STA. 206+76  
 STA. 248+50 TO STA. 254+35

**LEGEND**

- |   |   |
|---|---|
| ① EXISTING PCC PAVEMENT 8"                              | ⑪ EXISTING HOT-MIX ASPHALT BINDER COURSE, 12"                                 |
| ② EXISTING PAVEMENT (DEPTH UNKNOWN)                     | ⑫ EXISTING AGGREGATE WEDGE SHOULDERS, TYPE B                                  |
| ③ EXISTING CURB & GUTTER                                | ⑬ EXISTING PORTLAND CEMENT CONCRETE BASE COURSE, 8"                           |
| ④ EXISTING GRANULAR SUBBASE, 4"                         | ⑭ EXISTING AGGREGATE BASE COURSE, TYPE A 4"                                   |
| ⑤ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"                | ⑮ EXISTING LIME MODIFIED SOIL 12"   |
| ⑥ EXISTING AGGREGATE SHOULDERS, 8"                      | ⑯ EXISTING SUBBASE GRANULAR MATERIAL, TYPE C OR UNDISTURBED IMPROVED SUBGRADE |
| ⑦ EXISTING LEVELING BINDER, 1"                          | Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1½"                               |
| ⑧ EXISTING LEVELING BINDER, ¾"                          | Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 ½"                 |
| ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 ½"         | Ⓒ PROPOSED BITUMINOUS MATERIALS TACK COAT                                     |
| ⑩ EXISTING HOT-MIX ASPHALT BINDER COURSE, VARIES 0"-19" | Ⓓ PROPOSED LONGITUDINAL JOINT SEALANT   |

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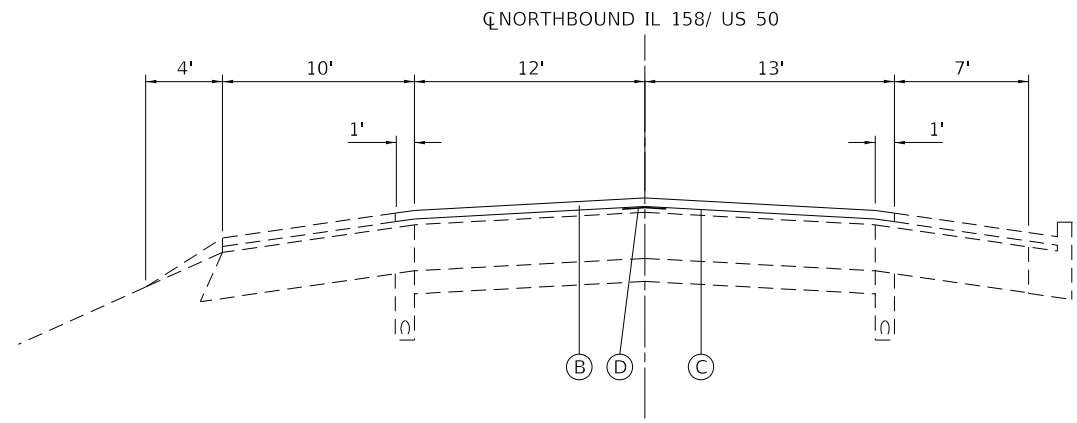
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE:	SHEET 8 OF 12 SHEETS STA. TO STA.

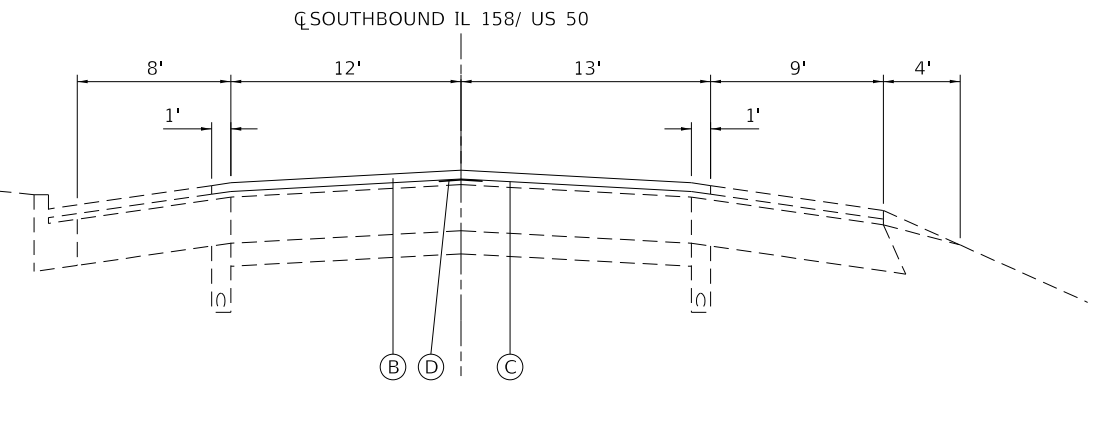
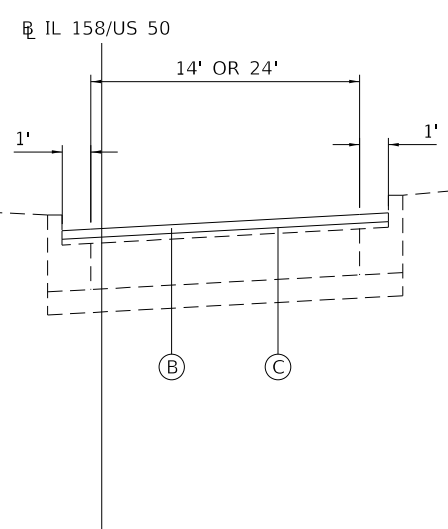
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	11
CONTRACT NO. 76M73			ILLINOIS FED. AID PROJECT	





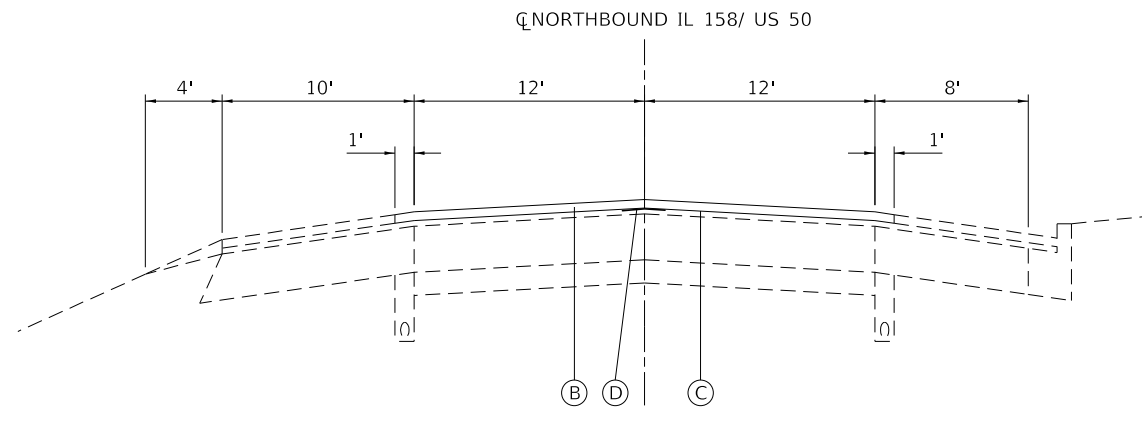
**PROPOSED NORTHBOUND TYPICAL SECTION**

STA. 194+27 TO STA. 197+80  
 STA. 243+00 TO STA. 246+20 (SEE NOTE)



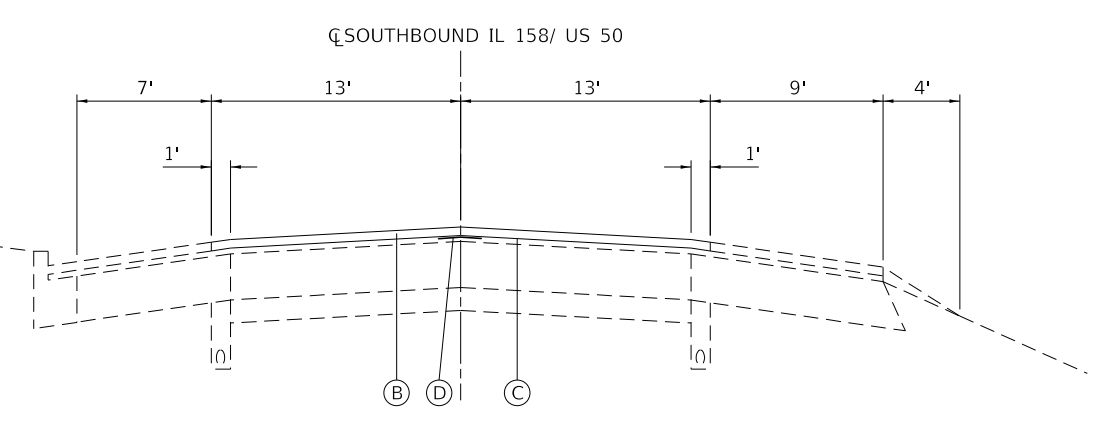
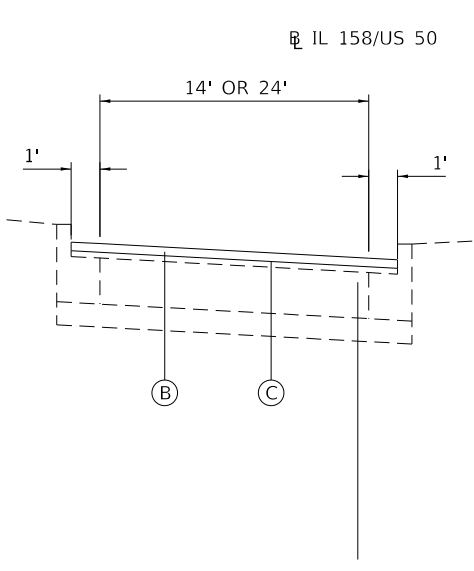
**PROPOSED SOUTHBOUND TYPICAL SECTION**

STA. 194+27 TO STA. 197+80  
 STA. 242+38 TO STA. 246+20 (SEE NOTE)



**PROPOSED NORTHBOUND TYPICAL SECTION**

STA. 246+20 TO STA. 250+60 (SEE NOTE)



**PROPOSED SOUTHBOUND TYPICAL SECTION**

STA. 246+20 TO STA. 248+50 (SEE NOTE)

NOTE: NB STA. 245+80 TO STA. 248+57  
 SB STA. 243+80 TO STA. 246+57

THIS SECTION OF IL 158/US 50 IS EXPERIENCING SIGNIFICANT RUTTING. 2 3/4" RESURFACING WITH POLYMERIZED MATERIALS SHALL BE REQUIRED AT THIS LOCATION. SEE RESURFACING DETAILS AND INTERSECTION DETAILS.

**LEGEND**

- ① EXISTING PCC PAVEMENT 8"
- ② EXISTING PAVEMENT (DEPTH UNKNOWN)
- ③ EXISTING CURB & GUTTER
- ④ EXISTING GRANULAR SUBBASE, 4"
- ⑤ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
- ⑥ EXISTING AGGREGATE SHOULDERS, 8"
- ⑦ EXISTING LEVELING BINDER, 1"
- ⑧ EXISTING LEVELING BINDER, 3/4"
- ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑩ EXISTING HOT-MIX ASPHALT BINDER COURSE, VARIES 0"-19"
- ⑪ EXISTING HOT-MIX ASPHALT BINDER COURSE, 12"
- ⑫ EXISTING AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑬ EXISTING PORTLAND CEMENT CONCRETE BASE COURSE, 8"
- ⑭ EXISTING AGGREGATE BASE COURSE, TYPE A 4"
- ⑮ EXISTING LIME MODIFIED SOIL 12"
- ⑯ EXISTING SUBBASE GRANULAR MATERIAL, TYPE C OR UNDISTURBED IMPROVED SUBGRADE
- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
- Ⓒ PROPOSED BITUMINOUS MATERIALS TACK COAT
- Ⓓ PROPOSED LONGITUDINAL JOINT SEALANT

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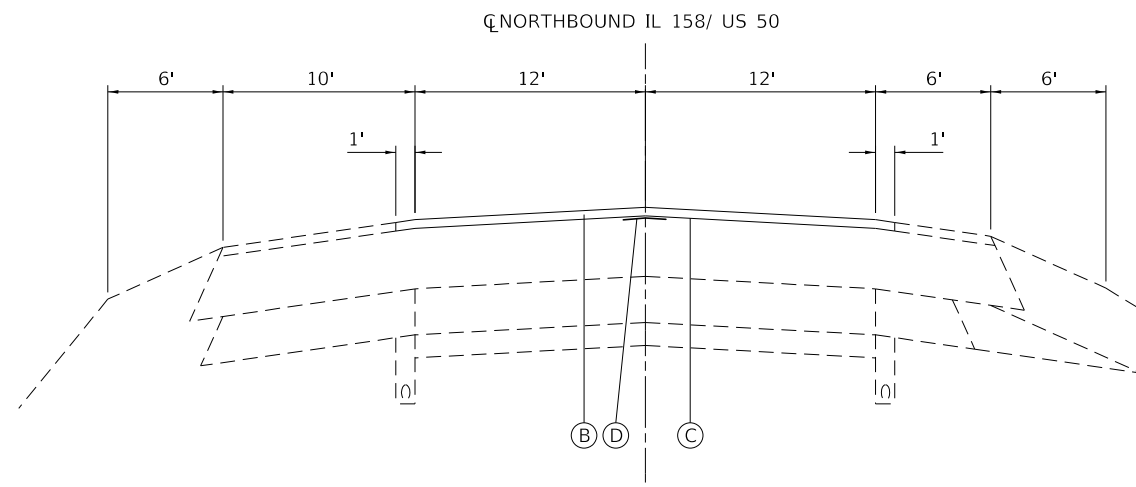
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>			
SCALE:	SHEET 9	OF 12 SHEETS	STA. TO STA.

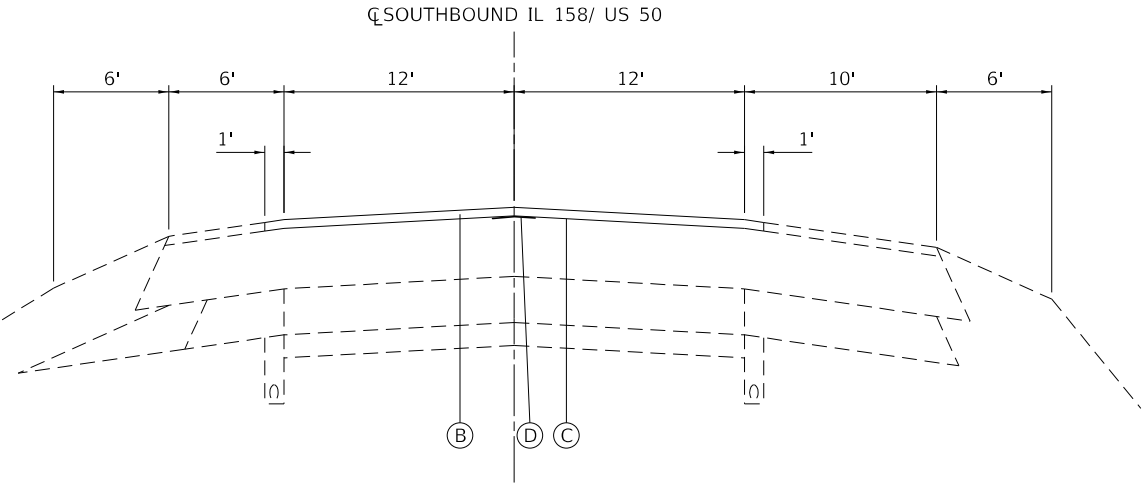
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CONTRACT NO. 76M73				
ILLINOIS		FED. AID PROJECT		





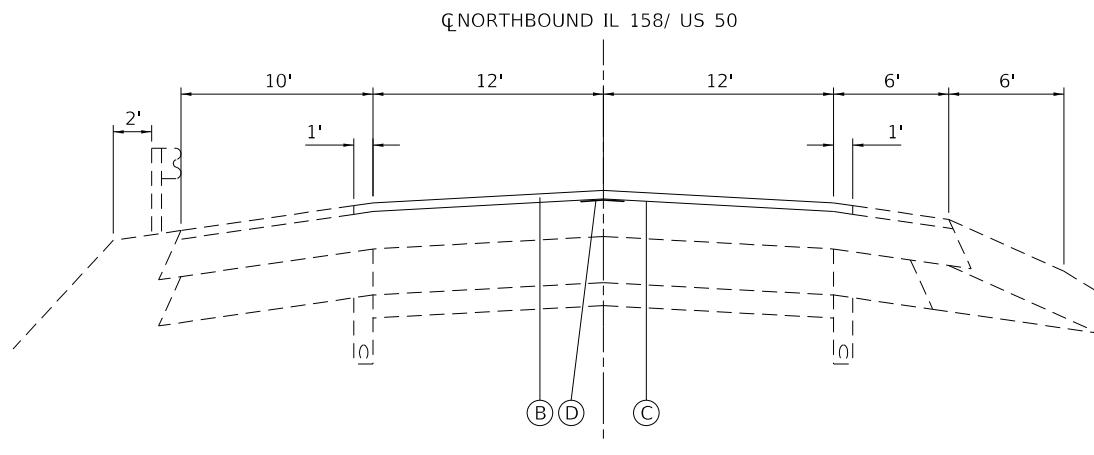
**PROPOSED NORTHBOUND TYPICAL SECTION**

STA. 288+20 TO STA. 297+26



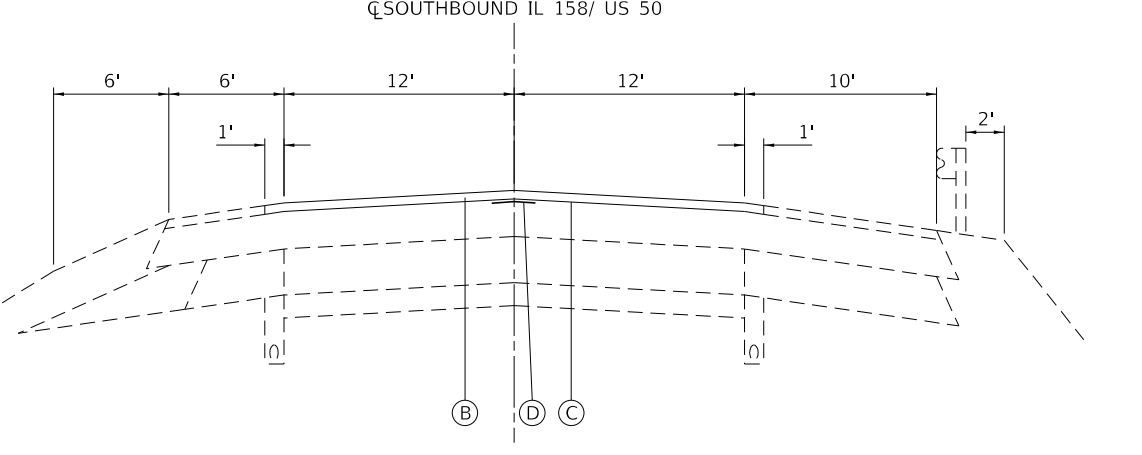
**PROPOSED SOUTHBOUND TYPICAL SECTION**

STA. 289+10 TO STA. 297+33



**PROPOSED NORTHBOUND TYPICAL SECTION**

STA. 300+14 TO STA. 306+75



**PROPOSED SOUTHBOUND TYPICAL SECTION**

STA. 299+95 TO STA. 307+00

**LEGEND**

- ① EXISTING PCC PAVEMENT 8"
- ② EXISTING PAVEMENT (DEPTH UNKNOWN)
- ③ EXISTING CURB & GUTTER
- ④ EXISTING GRANULAR SUBBASE, 4"
- ⑤ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
- ⑥ EXISTING AGGREGATE SHOULDERS, 8"
- ⑦ EXISTING LEVELING BINDER, 1"
- ⑧ EXISTING LEVELING BINDER, 3/4"
- ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑩ EXISTING HOT-MIX ASPHALT BINDER COURSE, VARIES 0"-19"
- ⑪ EXISTING HOT-MIX ASPHALT BINDER COURSE, 12"
- ⑫ EXISTING AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑬ EXISTING PORTLAND CEMENT CONCRETE BASE COURSE, 8"
- ⑭ EXISTING AGGREGATE BASE COURSE, TYPE A 4"
- ⑮ EXISTING LIME MODIFIED SOIL 12"
- ⑯ EXISTING SUBBASE GRANULAR MATERIAL, TYPE C OR UNDISTURBED IMPROVED SUBGRADE
- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
- Ⓒ PROPOSED BITUMINOUS MATERIALS TACK COAT
- Ⓓ PROPOSED LONGITUDINAL JOINT SEALANT

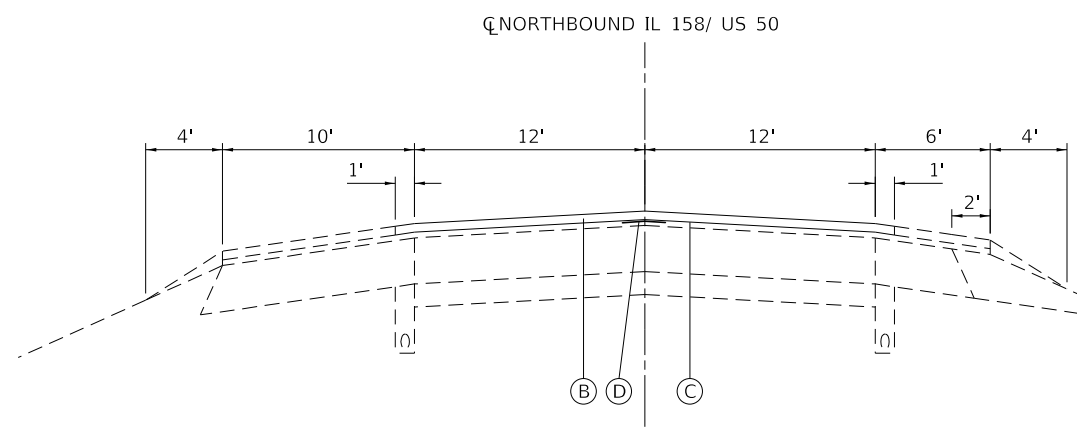
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

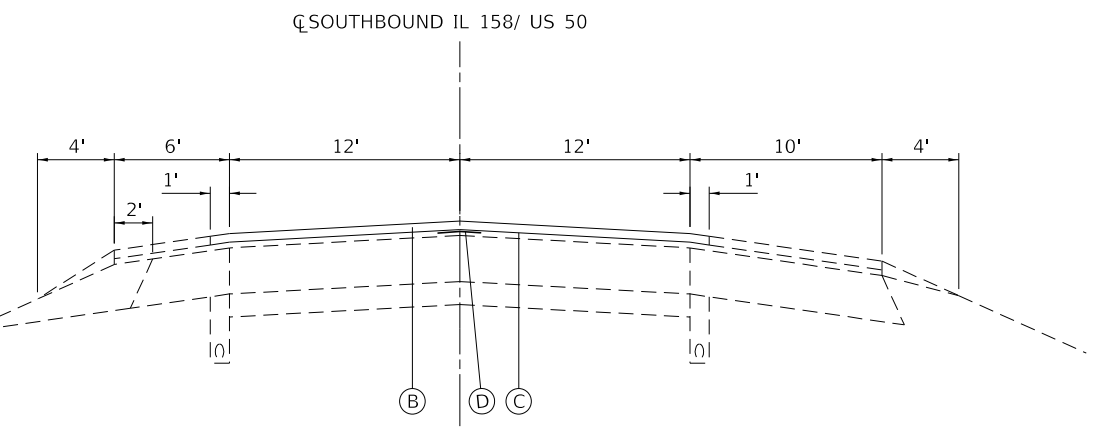
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SCALE:	SHEET 11	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76M73				
ILLINOIS		FED. AID PROJECT		



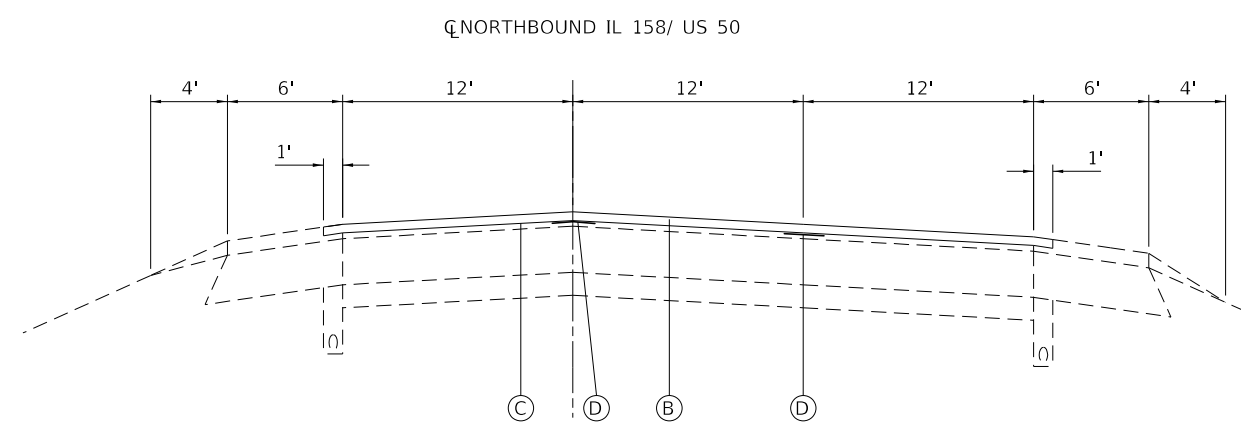
**PROPOSED NORTHBOUND TYPICAL SECTION**

STA. 188+80 TO STA. 189+30  
 STA. 333+25 TO STA. 342+00  
 STA. 253+85 TO STA. 254+35



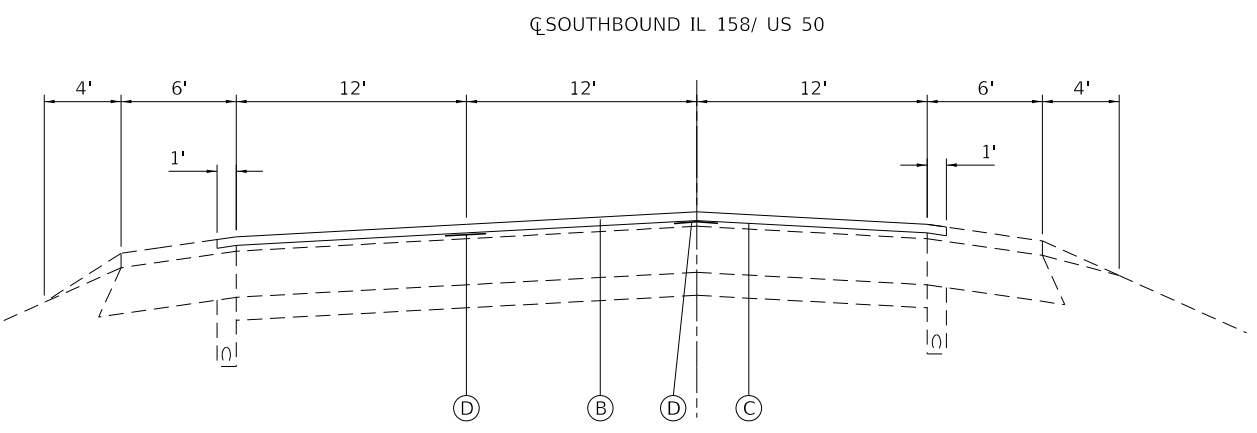
**PROPOSED SOUTHBOUND TYPICAL SECTION**

STA. 188+80 TO STA. 189+30  
 STA. 237+70 TO STA. 238+20  
 STA. 336+48 TO STA. 342+00



**PROPOSED NORTHBOUND TYPICAL SECTION**

STA. 151+22 TO STA. 152+34  
 STA. 154+90 TO STA. 156+00



**PROPOSED SOUTHBOUND TYPICAL SECTION**

STA. 151+22 TO STA. 152+34  
 STA. 154+90 TO STA. 156+00

**LEGEND**

- ① EXISTING PCC PAVEMENT 8"
- ② EXISTING PAVEMENT (DEPTH UNKNOWN)
- ③ EXISTING CURB & GUTTER
- ④ EXISTING GRANULAR SUBBASE, 4"
- ⑤ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
- ⑥ EXISTING AGGREGATE SHOULDERS, 8"
- ⑦ EXISTING LEVELING BINDER, 1"
- ⑧ EXISTING LEVELING BINDER, 3/4"
- ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑩ EXISTING HOT-MIX ASPHALT BINDER COURSE, VARIES 0"-19"
- ⑪ EXISTING HOT-MIX ASPHALT BINDER COURSE, 12"
- ⑫ EXISTING AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑬ EXISTING PORTLAND CEMENT CONCRETE BASE COURSE, 8"
- ⑭ EXISTING AGGREGATE BASE COURSE, TYPE A 4"
- ⑮ EXISTING LIME MODIFIED SOIL 12"
- ⑯ EXISTING SUBBASE GRANULAR MATERIAL, TYPE C OR UNDISTURBED IMPROVED SUBGRADE
- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
- Ⓒ PROPOSED BITUMINOUS MATERIALS TACK COAT
- Ⓓ PROPOSED LONGITUDINAL JOINT SEALANT

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	15
CONTRACT NO. 76M73				
ILLINOIS		FED. AID PROJECT		

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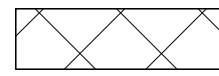
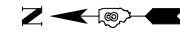




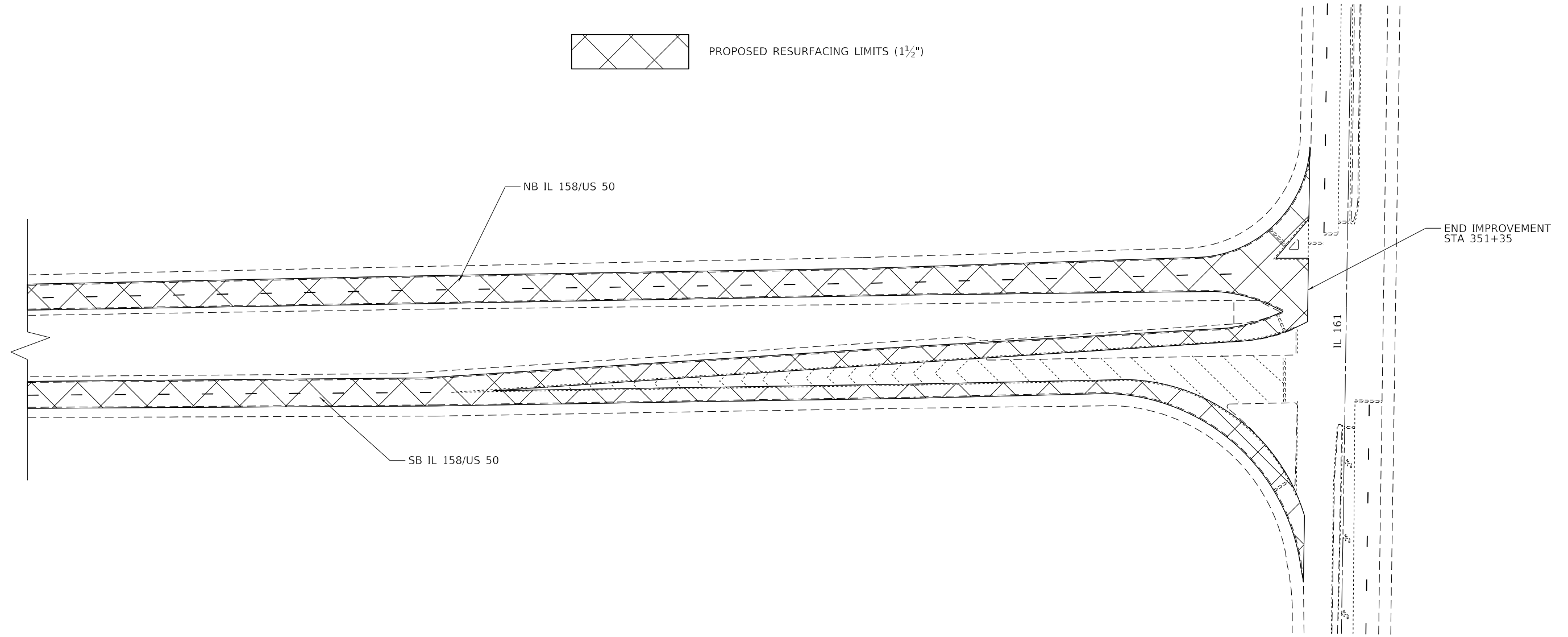








PROPOSED RESURFACING LIMITS (1½")



**INTERSECTION OF IL 158/US 50 & IL 161**

(NOT TO SCALE)

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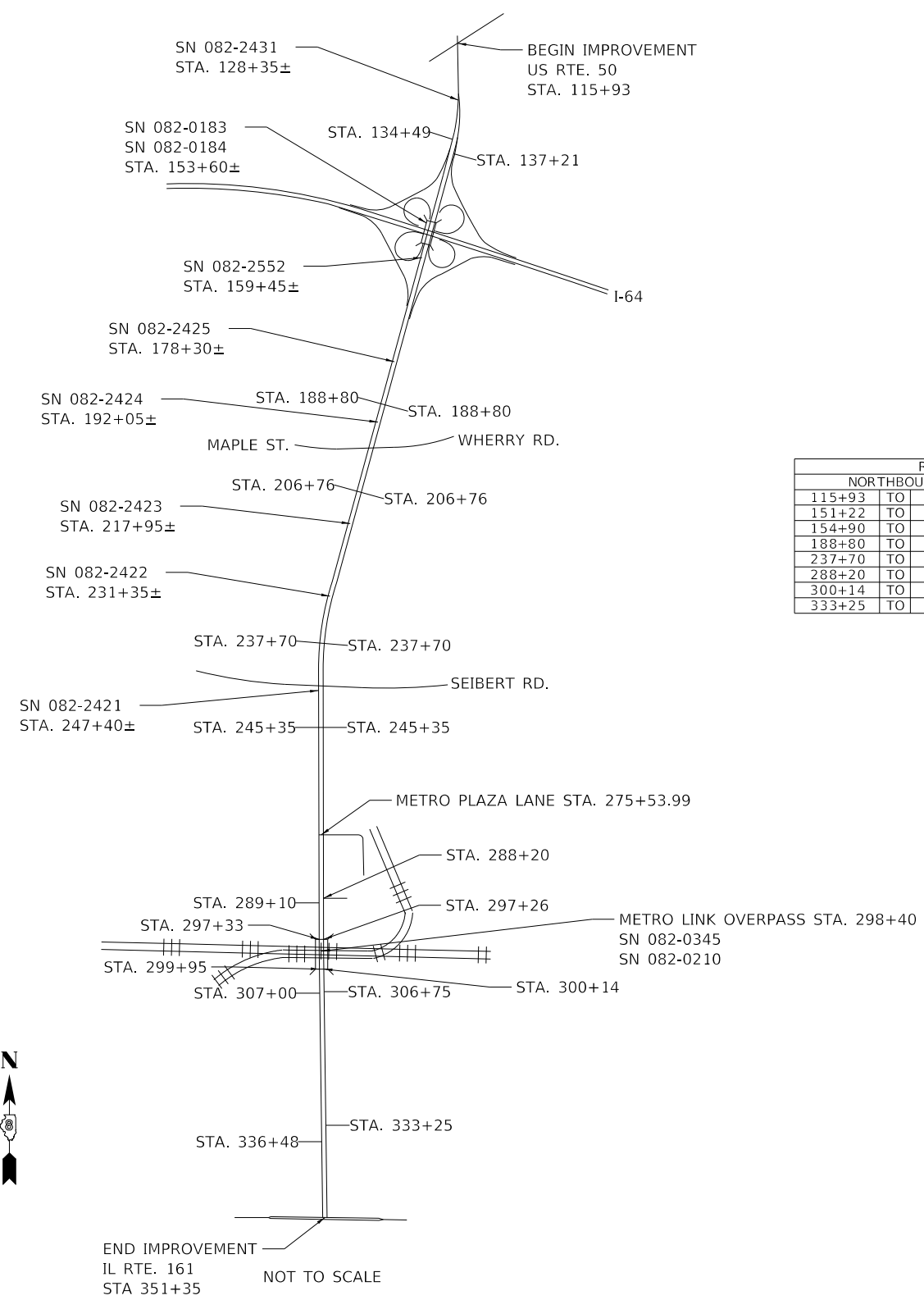
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION DETAILS**

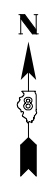
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	21
CONTRACT NO. 76M73				
ILLINOIS		FED. AID PROJECT		

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RESURFACING LIMITS					
NORTHBOUND			SOUTHBOUND		
115+93	TO	137+21	115+93	TO	134+49
151+22	TO	152+34	151+22	TO	152+34
154+90	TO	156+00	154+90	TO	156+00
188+80	TO	206+76	188+80	TO	206+76
237+70	TO	254+35	237+70	TO	254+35
288+20	TO	297+26	289+10	TO	297+33
300+14	TO	306+75	299+95	TO	307+00
333+25	TO	351+35	336+48	TO	351+35

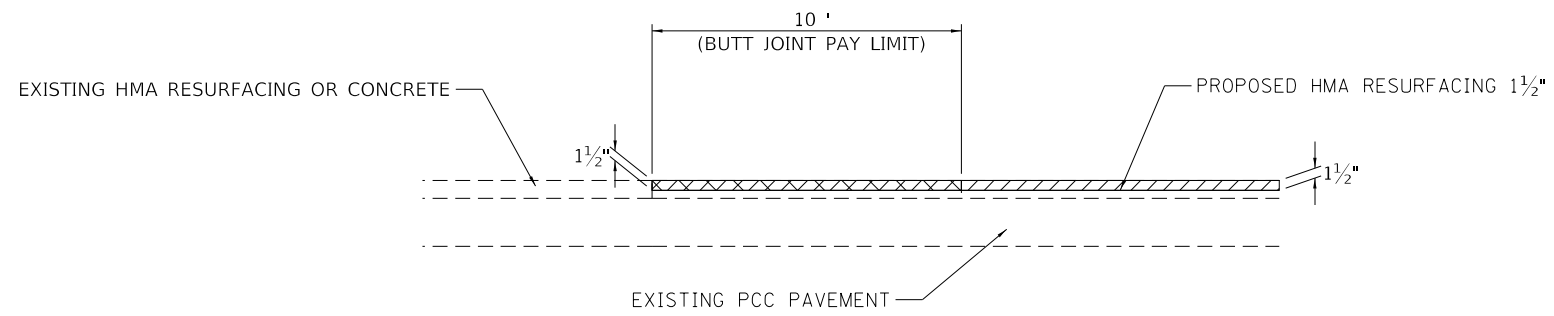


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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

LOCATION MAP			
SCALE: N.T.S.	SHEET	OF	SHEETS
	STA.	TO	STA.

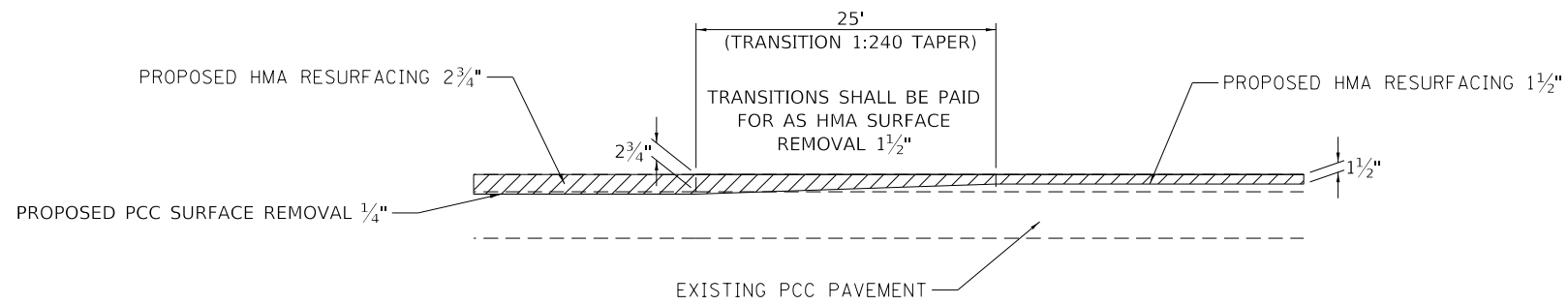
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	22
CONTRACT NO. 76M73				
ILLINOIS		FED. AID PROJECT		



**BUTT JOINT DETAIL**

ELEVATION VIEW

LOCATION: BEGINNING AND ENDING OF RESURFACING LIMITS  
(SEE LOCATION MAP FOR RESURFACING LIMITS)



**HMA SURFACE REMOVAL TRANSITION DETAIL**

ELEVATION VIEW

LOCATION: NEAR SEIBERT RD. SEE INTERSECTION DETAILS FOR LOCATIONS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING DETAILS**

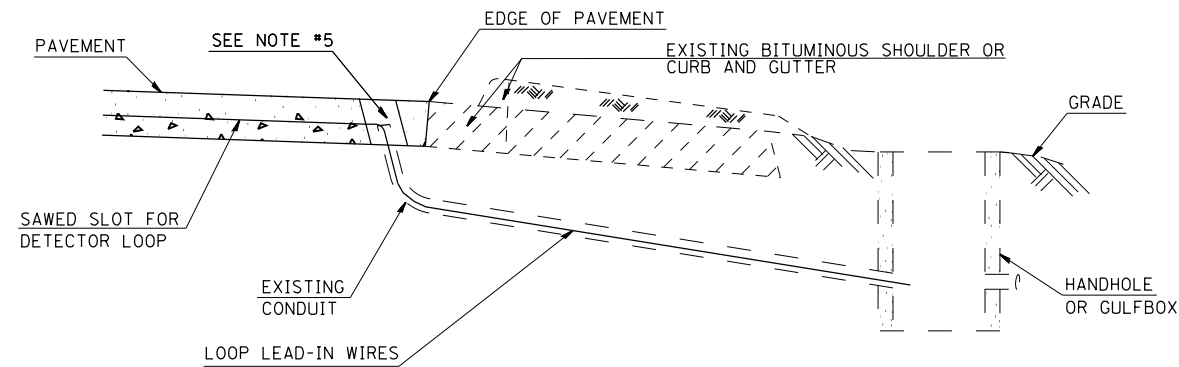
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	23
CONTRACT NO. 76M73			ILLINOIS FED. AID PROJECT	

**NOTES:**

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS"  
FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.  
SEE "DETAIL A" FOR INSTALLING DETECTOR LOOP WIRES  
IN EXISTING CONDUITS.

SCHEDULE OF QUANTITIES			TOTAL QUANTITIES	IL 158/SCOTT-TROY & US 50/E. HWY 50.	IL 158 & WHERRY RD.	IL 158 & SEIBERT RD.	IL 158 & IL 161
CODE NO	ITEM	UNIT					
<del>80300100</del>	LOCATING UNDERGROUND CABLE	FOOT	200	30	70	70	30
<del>88600600</del>	DETECTOR LOOP REPLACEMENT	FOOT	3287	648	1445	816	378



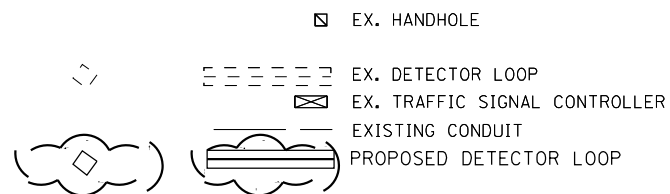
**DETAIL A**  
(NO SCALE)

**INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT**

1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
3. INSTALL NEW LOOP LEAD-IN WIRES IN EXISTING CONDUIT.
4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
5. FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.
6. LOCATING UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

**DETECTOR LOOP REPLACEMENT LEGEND**



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT  
GENERAL NOTES, SCHEDULE OF QUANTITIES,  
DETAIL AND LEGEND**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	24
			CONTRACT NO. 76M73	
		ILLINOIS	FED. AID PROJECT	

DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS FOR IL 158(US 50)/SCOTT-TROY RD. & E.HWY 50/US 50					
LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
<del>1. EB CCO 1</del>	<del>6</del>	<del>6' x 6'</del>	<del>6</del>	<del>343.98</del>	<del>2.39</del>
<del>2. EB CCO 2</del>	<del>6</del>	<del>6' x 6'</del>	<del>6</del>	<del>319.12</del>	<del>1.82</del>
<del>3. EB LT CD</del>	<del>1</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>805.58</del>	<del>2.05</del>
<del>4. EB THRU CD</del>	<del>6</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>801.40</del>	<del>1.94</del>
<del>5. EB RT CD</del>	<del>6</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>796.56</del>	<del>1.83</del>
6. NB CCO 1	3	6' x 6'	7	515.19	3.81
7. NB CCO 2	3	6' x 6'	7	517.83	3.87
8. NB CCO 3	3	6' x 6'	7	463.27	2.63
9. NB LT CD	8	6' x 50'(Q)	3-6-3	831.32	2.62
10. NB THRU CD	3	6' x 50'(Q)	3-6-3	829.12	2.57
11. NB RT CD	3	6' x 50'(Q)	3-6-3	825.38	2.49
<del>12. WB CCO 1</del>	<del>2</del>	<del>6' x 6'</del>	<del>7</del>	<del>527.95</del>	<del>4.10</del>
<del>13. WB CCO 2</del>	<del>2</del>	<del>6' x 6'</del>	<del>7</del>	<del>503.31</del>	<del>3.54</del>
<del>14. WB CCO 3</del>	<del>2</del>	<del>6' x 6'</del>	<del>7</del>	<del>500.67</del>	<del>3.48</del>
<del>15. WB LT CD</del>	<del>5</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>874.88</del>	<del>3.61</del>
<del>16. WB THRU CD</del>	<del>2</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>872.24</del>	<del>3.55</del>
<del>17. WB RT CD</del>	<del>2</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>868.50</del>	<del>3.47</del>
18. SB CCO 1	4	6' x 6'	7	500.67	3.48
19. SB CCO 2	4	6' x 6'	7	515.41	3.82
20. SB CCO 3	4	6' x 6'	7	491.43	3.27
21. SB LT CD	7	6' x 50'(Q)	3-6-3	859.04	3.25
22. SB THRU CD 1	4	6' x 50'(Q)	3-6-3	857.06	3.21
23. SB THRU CD 2	4	6' x 50'(Q)	3-6-3	854.86	3.16
24. SB RT CD	4	6' x 50'(Q)	3-6-3	826.70	2.52

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS FOR IL 158 & WHERRY RD.					
LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
<del>1. EB CCO 1</del>	<del>3</del>	<del>6' x 6'</del>	<del>7</del>	<del>520.03</del>	<del>3.92</del>
<del>2. EB CCO 2</del>	<del>3</del>	<del>6' x 6'</del>	<del>7</del>	<del>515.63</del>	<del>3.82</del>
<del>3. EB LT CD</del>	<del>3</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>855.08</del>	<del>3.16</del>
<del>4. EB THRU CD</del>	<del>3</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>860.80</del>	<del>3.29</del>
<del>5. EB RT CD</del>	<del>3</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>873.56</del>	<del>3.58</del>
6. NB CCO 1	6	6' x 6'	7	521.79	3.96
7. NB CCO 2	6	6' x 6'	7	519.15	3.90
8. NB CCO 3	6	6' x 6'	7	463.27	2.63
9. NB LT CD	1	6' x 50'(Q)	3-6-3	840.56	2.83
10. NB THRU CD 1	6	6' x 50'(Q)	3-6-3	829.34	2.58
11. NB THRU CD 2	6	6' x 50'(Q)	3-6-3	826.26	2.51
12. NB RT CD	6	6' x 50'(Q)	3-6-3	824.72	2.47
<del>13. WB CCO 1</del>	<del>4</del>	<del>6' x 6'</del>	<del>6</del>	<del>338.70</del>	<del>2.27</del>
<del>14. WB CCO 2</del>	<del>4</del>	<del>6' x 6'</del>	<del>6</del>	<del>335.40</del>	<del>2.19</del>
<del>15. WB LT CD</del>	<del>4</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>866.30</del>	<del>3.42</del>
<del>16. WB THRU CD 1</del>	<del>4</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>814.60</del>	<del>2.24</del>
<del>17. WB RT CD</del>	<del>4</del>	<del>6' x 50'(Q)</del>	<del>3-6-3</del>	<del>814.38</del>	<del>2.24</del>
18. SB CCO 1	2	6' x 6'	7	517.61	3.87
19. SB CCO 2	2	6' x 6'	7	514.75	3.80
20. SB CCO 3	2	6' x 6'	7	395.51	1.09
21. SB LT CD	5	6' x 50'(Q)	3-6-3	844.30	2.92
22. SB THRU CD 1	2	6' x 50'(Q)	3-6-3	849.58	3.04
23. SB THRU CD 2	2	6' x 50'(Q)	3-6-3	846.09	2.96
24. SB RT CD	2	6' x 50'(Q)	3-6-3	843.86	2.91

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 158(US 50)/SCOTT-TROY RD. &amp; E.HWY 50/US 50 IL 158 &amp; WHERRY RD. DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76M73	

DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS FOR IL 158 & SEIBERT RD.					
LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB CCO 1	4	6' x 6'	8	726.88	5.48
2. EB CCO 2	4	6' x 6'	8	726.88	5.48
3. EB LT CD	7	6' x 50'(Q)	3-6-3	913.60	4.49
4. EB THRU CD 1	4	6' x 50'(Q)	3-6-3	909.64	4.40
5. EB THRU CD 2	4	6' x 50'(Q)	3-6-3	906.78	4.34
6. EB RT CD	4	6' x 50'(Q)	3-6-3	903.26	4.26
7. NB CCO 1	2	7' x 21'(Q)	3-6-3	505.50	4.11
8. NB CCO 2	2	6' x 6'	6	369.28	2.96
9. NB LT CD	5	6' x 50'(Q)	3-6-3	870.70	3.52
10. WB THRU CD 1	8	6' x 50'(Q)	3-6-3	817.90	2.32
11. WB THRU CD 2	8	6' x 50'(Q)	3-6-3	823.18	2.44
12. WB LT CD	3	6' x 50'(Q)	3-6-3	826.04	2.50
13. SB CCO 1	6	7' x 21'(Q)	3-6-3	462.16	3.13
14. SB CCO 2	6	6' x 6'	6	360.26	2.76
15. SB CCO 3	6	6' x 6'	6	363.12	2.82
16. SB LT CD	1	6' x 50'(Q)	3-6-3	826.92	2.52
17. SB THRU CD	6	6' x 50'(Q)	3-6-3	838.80	2.79

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS FOR IL 158 & IL 161					
LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB CCO 1	6	6' x 6'	8	696.30	4.79
2. EB CCO 2	6	6' x 6'	8	692.78	4.71
3. EB LT CD	1	6' x 50'(Q)	3-6-3	855.30	3.17
4. EB THRU CD 1	6	6' x 50'(Q)	3-6-3	871.36	3.53
5. EB THRU CD 2	6	6' x 50'(Q)	3-6-3	868.50	3.47
6. WB CCO 1	2	6' x 6'	6	337.82	2.25
7. WB CCO 2	2	6' x 6'	6	333.42	2.15
8. WB THRU CD 1	2	6' x 50'(Q)	3-6-3	814.60	2.24
9. WB THRU CD 2	2	6' x 50'(Q)	3-6-3	810.86	2.16
10. WB RT CD	2	6' x 50'(Q)	3-6-3	811.96	2.18
11. SB CCO	4	6' x 6'	6	329.24	2.05
12. SB LT CD 1	3	6' x 50'(Q)	3-6-3	823.84	2.45
13. SB THRU CD 2	4	6' x 70'(Q)	3-6-3	1134.84	3.30
14. SB THRU CD 3	4	6' x 70'(Q)	3-6-3	1137.48	3.36

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

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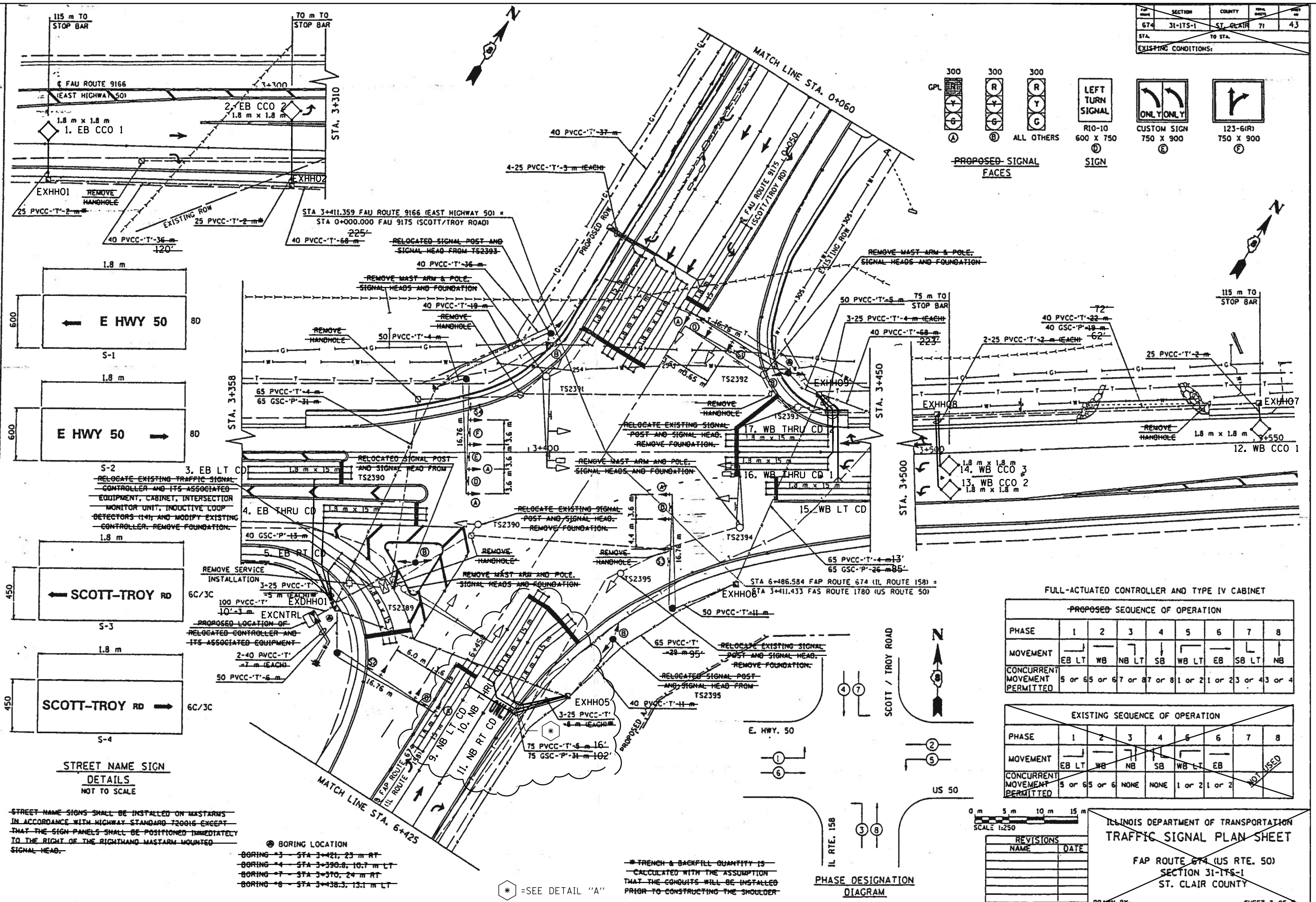
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 158 & SEIBERT RD.  
IL 158 & IL 161  
DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	26
			CONTRACT NO. 76M73	
		ILLINOIS	FED. AID PROJECT	

SECTION	COUNTY	DATE	BY
31-175-1	ST. CLAIR	7/1	4.3
STA. 0+000.000	TO STA. 0+060	EXISTING CONDITIONS:	



FULL-ACTUATED CONTROLLER AND TYPE IV CABINET

PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	EB LT	WB	NB LT	SB	WB LT	EB	SB LT	NB
CONCURRENT MOVEMENT PERMITTED	5 or 6	5 or 6	5 or 6	7 or 8	1 or 2	1 or 2	3 or 4	3 or 4

EXISTING SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	EB LT	WB	NB	SB	WB LT	EB		
CONCURRENT MOVEMENT PERMITTED	5 or 6	5 or 6	NONE	NONE	1 or 2	1 or 2		

SCALE 1:250

REVISIONS

NO.	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL PLAN SHEET**  
 FAP ROUTE 674 (US RTE. 50)  
 SECTION 31-175-1  
 ST. CLAIR COUNTY  
 DRAWN BY: \_\_\_\_\_  
 SHEET 3 OF 3

USER NAME = prestonme	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 "/in.	DRAWN -	REVISED -
PLOT DATE = 5/31/2019	CHECKED -	REVISED -
	DATE -	REVISED -

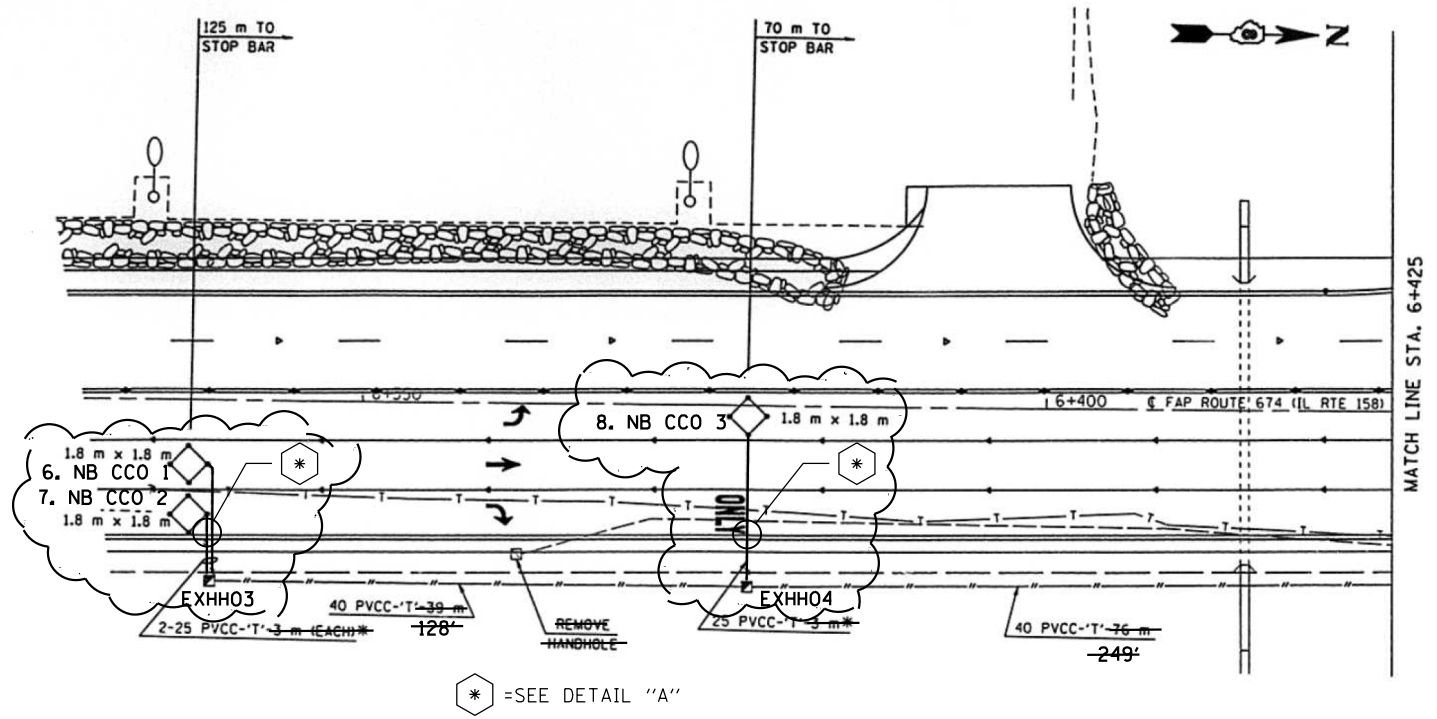
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 158(US 50)/SCOTT-TROY RD. & E.HWY 50/US 50  
 DETECTOR LOOP REPLACEMENT PLAN  
 1 OF 4

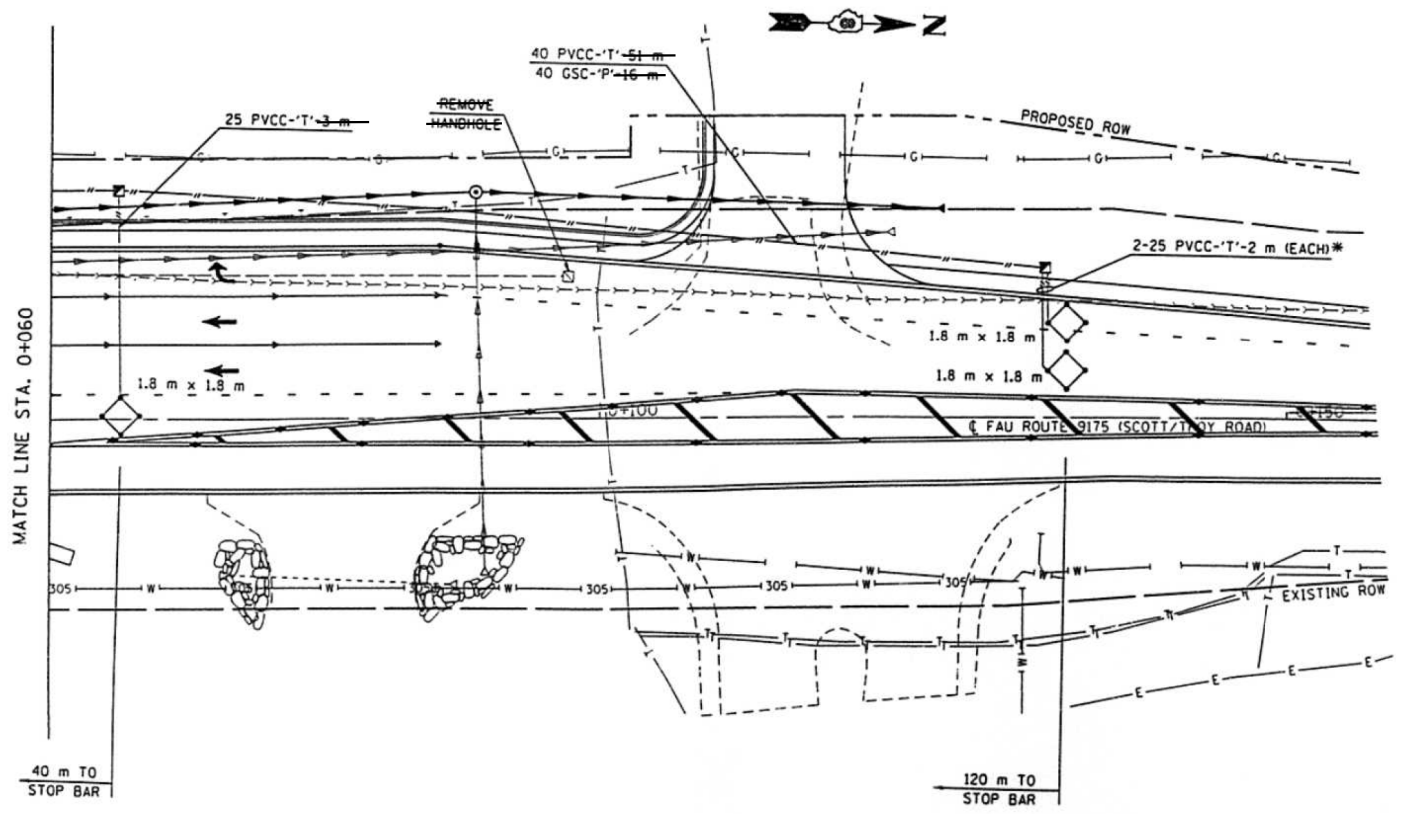
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	27
SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT CONTRACT NO. 76M73	



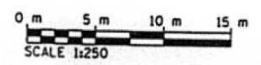
ZIP CODE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	31-ITS-1	ST. CLAIR	71	44
STA. 10 STA.		EXISTING CONDITIONS:		



\* = SEE DETAIL "A"



\* TRENCH & BACKFILL QUANTITY IS CALCULATED WITH THE ASSUMPTION THAT THE CONDUITS WILL BE INSTALLED PRIOR TO CONSTRUCTING THE SHOULDER



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL PLAN SHEET**  
 FAP ROUTE 674 (US RTE. 50)  
 SECTION 31-ITS-1  
 ST. CLAIR COUNTY  
 DRAWN BY: \_\_\_\_\_ SHEET 4 OF 5

MODEL: Default  
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PLOT DATE = 5/31/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 158(US 50)/SCOTT-TROY RD. & E.HWY 50/US 50  
 DETECTOR LOOP REPLACEMENT PLAN  
 2 OF 4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	28
CONTRACT NO. 76M73			ILLINOIS FED. AID PROJECT	

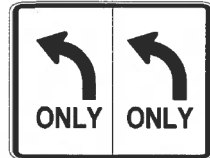
SCALE: SHEET OF SHEETS STA. TO STA.



R10-10L  
24' x 30'

DETAIL (A)

1 EACH REQUIRED  
SIGN PANEL TYPE 1  
(NOT TO SCALE)



CUSTOM  
36' x 30'

DETAIL (B)

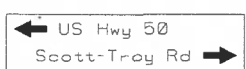
1 EACH REQUIRED  
SIGN PANEL TYPE 1  
(NOT TO SCALE)



R3-6R  
24' x 30'

DETAIL (C)

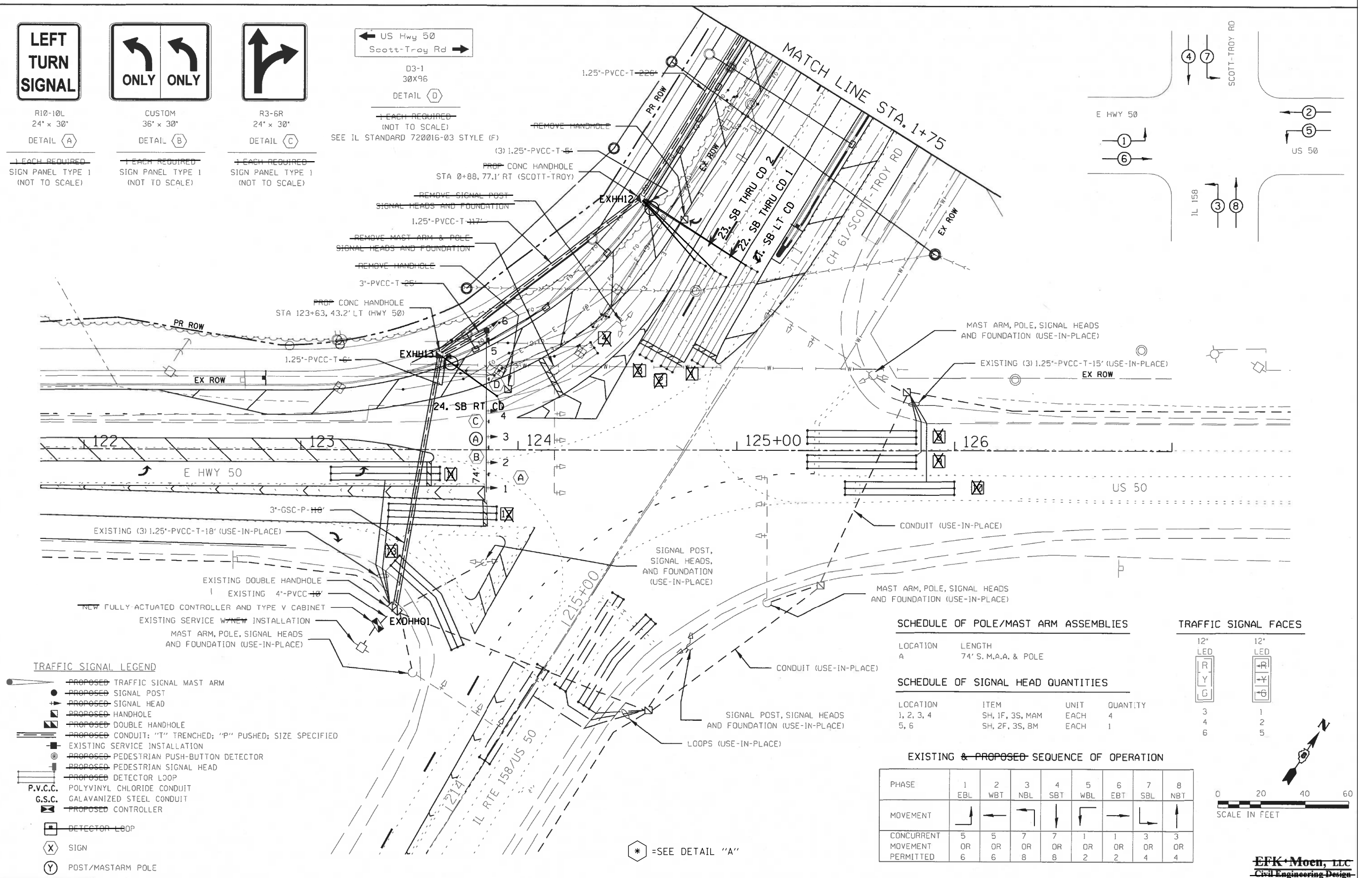
1 EACH REQUIRED  
SIGN PANEL TYPE 1  
(NOT TO SCALE)



D3-1  
30x96

DETAIL (D)

1 EACH REQUIRED  
(NOT TO SCALE)  
SEE IL STANDARD 720016-03 STYLE (F)



TRAFFIC SIGNAL LEGEND

- PROPOSED TRAFFIC SIGNAL MAST ARM
- PROPOSED SIGNAL POST
- PROPOSED SIGNAL HEAD
- 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
- DETECTOR L80P
- (X) SIGN
- (Y) POST/MASTARM POLE

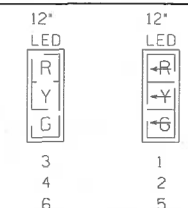
SCHEDULE OF POLE/MAST ARM ASSEMBLIES

LOCATION	LENGTH
A	74' S. M.A.A. & POLE

SCHEDULE OF SIGNAL HEAD QUANTITIES

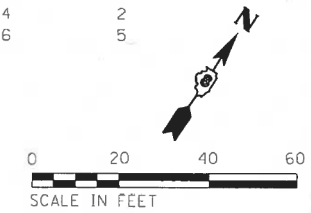
LOCATION	ITEM	UNIT	QUANTITY
1, 2, 3, 4	SH, 1F, 3S, MAM	EACH	4
5, 6	SH, 2F, 3S, BM	EACH	1

TRAFFIC SIGNAL FACES



EXISTING & PROPOSED SEQUENCE OF OPERATION

PHASE	1	2	3	4	5	6	7	8
	EBL	WBT	NBL	SBT	WBL	EBT	SBL	NBT
MOVEMENT	↑	←	→	↓	↑	←	→	↓
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



EFK Moen, LLC  
Civil Engineering Design

FILE NAME = 48-Signal Sheet 2.dgn	USER NAME = mkirchner	DESIGNED - MMH	REVISED -
		DRAWN - MSK	REVISED -
		CHECKED - SLD	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN

F.A.P. RTE. 9175	SECTION 15-00253-15-TM	COUNTY ST. CLAIR	TOTAL SHEETS 48	SHEET NO. 56
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

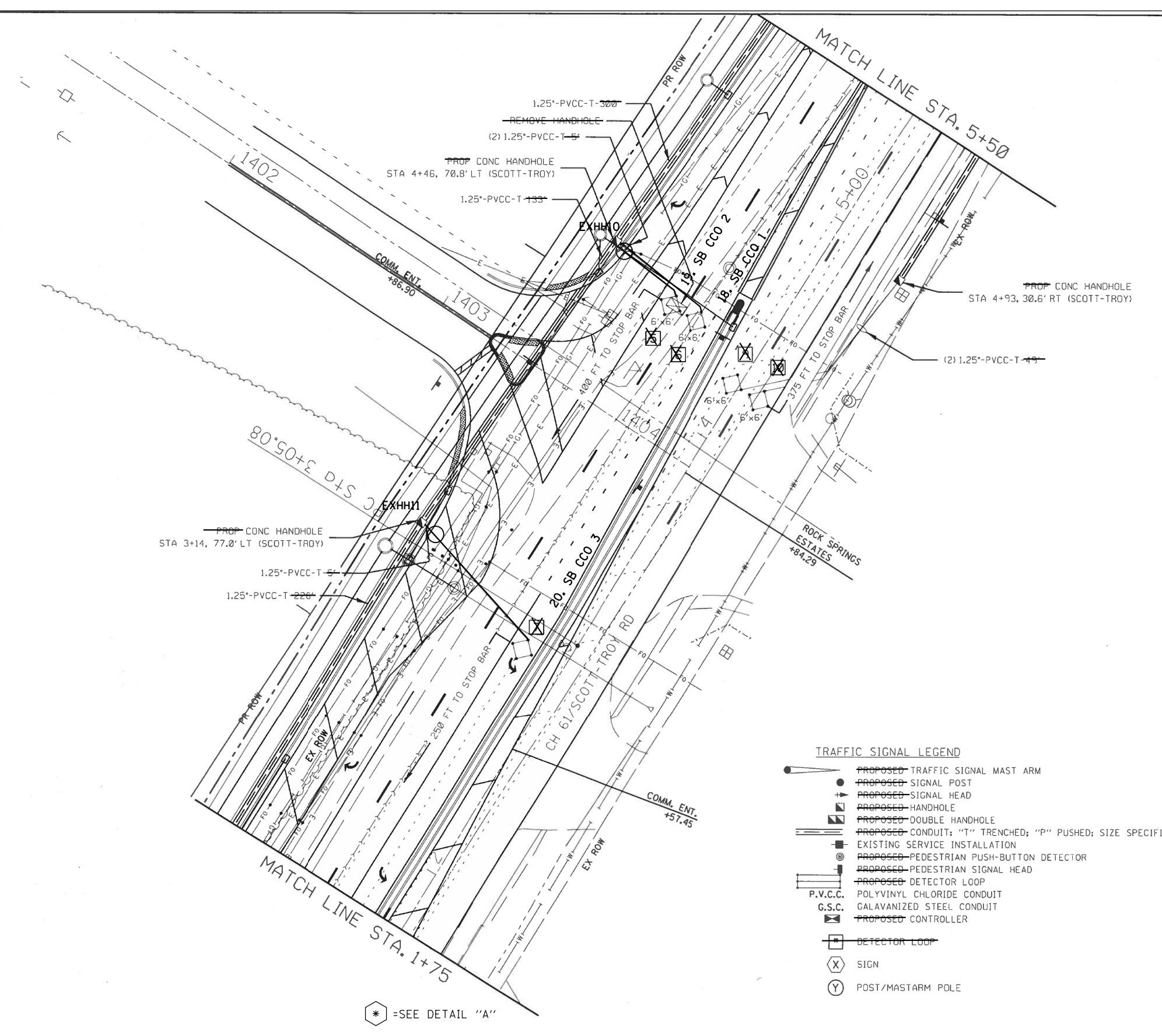
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

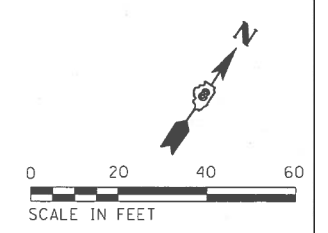
IL 158(US 50)/SCOTT-TROY RD. & E.HWY 50/US 50  
DETECTOR LOOP REPLACEMENT PLAN  
3 OF 4

F.A.P. RTE. 674	SECTION (31,410,410-1)RS-3	COUNTY ST. CLAIR	TOTAL SHEETS 37	SHEET NO. 29
CONTRACT NO. 76M73				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
FILE: 48-Signal Sheet 2.dgn  
PROJECT: 15-00253-15-TM  
OFFICE: 15-00253-15-TM  
DATE: 5/31/2019



- TRAFFIC SIGNAL LEGEND**
- PROPOSED TRAFFIC SIGNAL MAST ARM
  - PROPOSED SIGNAL POST
  - PROPOSED SIGNAL HEAD
  - 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
  - DETECTOR LOOP
  - SIGN
  - POST/MASTARM POLE



\* = SEE DETAIL "A"

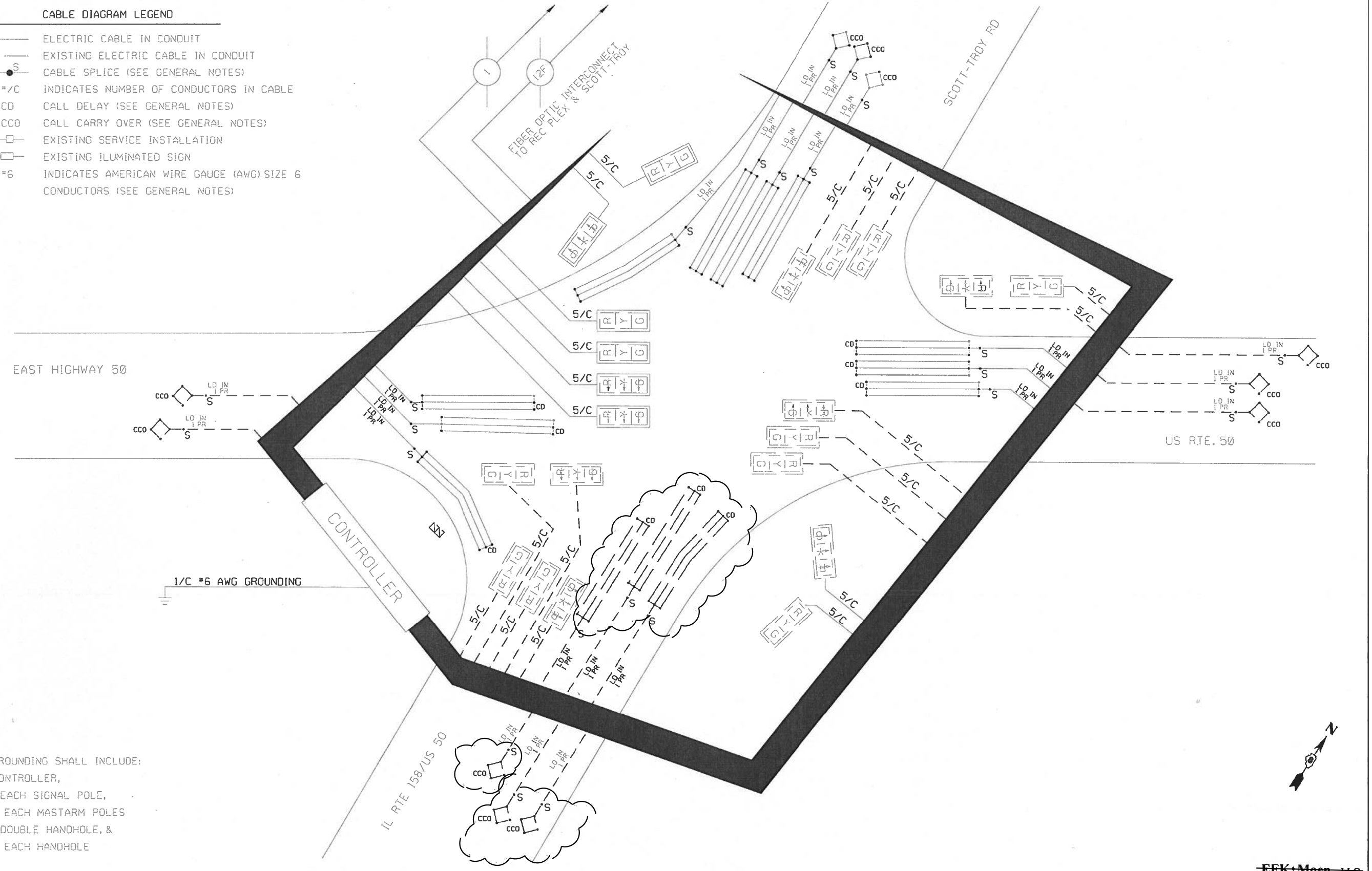
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																
9175	15-00253-15-PW	ST. CLAIR	50	56																
CONTRACT NO.																				
USER NAME = prestonme DESIGNED - DRAWN - CHECKED - DATE - PLOT SCALE = 40.0000 ' / in. PLOT DATE = 5/31/2019	DESIGNED - DRAWN - CHECKED - DATE - REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 158(US 50)/SCOTT-TROY RD. &amp; E.HWY 50/US 50 DETECTOR LOOP REPLACEMENT PLAN 4 OF 4</b>	SCALE: SHEET OF SHEETS STA. TO STA.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>F.A.P. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>674</td> <td>(31,410,410-1)RS-3</td> <td>ST. CLAIR</td> <td>37</td> <td>30</td> </tr> <tr> <td colspan="5" style="text-align: center;">CONTRACT NO. 76M73</td> </tr> </table>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	674	(31,410,410-1)RS-3	ST. CLAIR	37	30	CONTRACT NO. 76M73				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																
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CONTRACT NO. 76M73																				

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**EFK Moen, LLC**  
Civil Engineering Design

**CABLE DIAGRAM LEGEND**

- ELECTRIC CABLE IN CONDUIT
- - - EXISTING ELECTRIC CABLE IN CONDUIT
- S CABLE SPLICE (SEE GENERAL NOTES)
- =/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- CD CALL DELAY (SEE GENERAL NOTES)
- CCO CALL CARRY OVER (SEE GENERAL NOTES)
- EXISTING SERVICE INSTALLATION
- EXISTING ILLUMINATED SIGN
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)



GROUNDING SHALL INCLUDE:  
 CONTROLLER,  
 1 EACH SIGNAL POLE,  
 3 EACH MASTARM POLES  
 1 DOUBLE HANDHOLE, &  
 3 EACH HANDHOLE

FILE NAME = 49-Signal Sheet 2-cable.dgn Default:	USER NAME = mskanner PLOT SCALE = 42.8228' / in. PLOT DATE = 12/11/22;7	DESIGNED - MMH DRAWN - MSK CHECKED - SLD DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL DETAILS</b> SCOTT-TROY RD & US HWY 50 WIRING DIAGRAM SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>F.A.P. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>9175</td> <td>15-00253-157</td> <td>ST. CLAIR</td> <td>49</td> <td>56</td> </tr> </table> CONTRACT NO. ILLINOIS FED. AID PROJECT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	9175	15-00253-157	ST. CLAIR	49	56
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.												
9175	15-00253-157	ST. CLAIR	49	56												

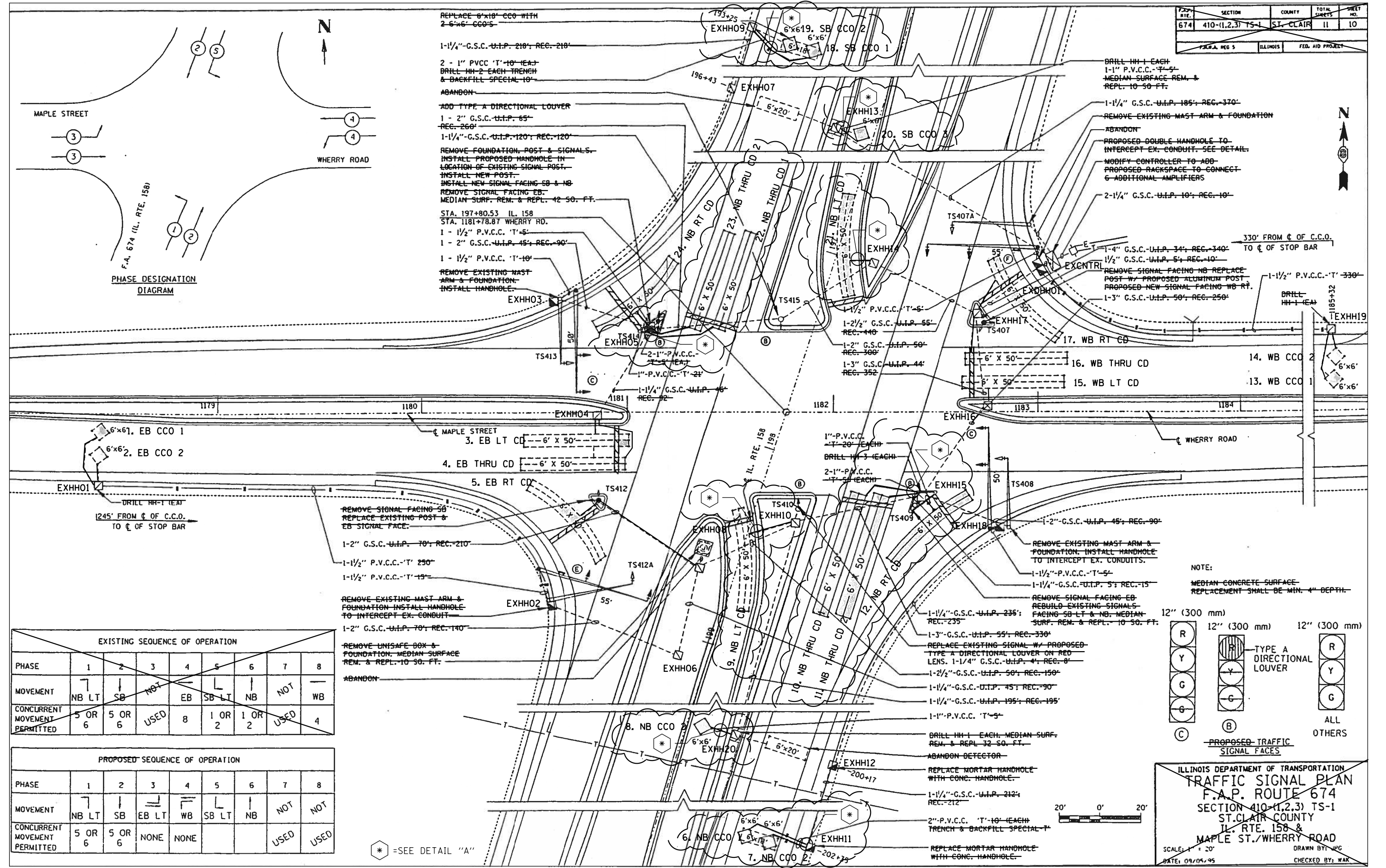
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.											
674	(31,410,410-1)RS-3	ST. CLAIR	37	31											

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	410-(1,2,3) TS-1	ST. CLAIR	11	10

ILLINOIS FED. AID PROJECT

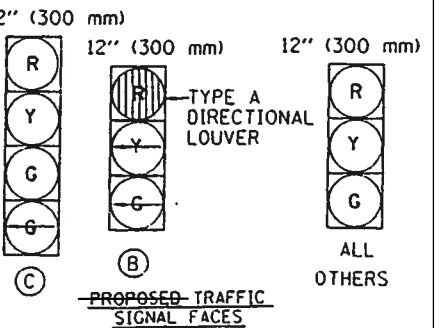


PHASE DESIGNATION DIAGRAM

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NB LT	SB	NOT	EB	SB LT	NB	NOT	WB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	USED	8	1 OR 2	1 OR 2	USED	4

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NB LT	SB	EB LT	WB	SB LT	NB	NOT	NOT
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE			USED	USED

NOTE:  
MEDIAN CONCRETE SURFACE REPLACEMENT SHALL BE MIN. 4" DEPTH.



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL PLAN**  
 F.A.P. ROUTE 674  
 SECTION 410-(1,2,3) TS-1  
 ST. CLAIR COUNTY  
 IL. RTE. 158 &  
 MAPLE ST./WHERRY ROAD  
 SCALE: 1" = 20'  
 DATE: 09/05/95  
 DRAWN BY: JWC  
 CHECKED BY: WAK

MODEL: Default  
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 PROJECT: 09/05/95  
 OFFICE: JWC  
 PROJECT: 09/05/95  
 OFFICE: JWC  
 PROJECT: 09/05/95  
 OFFICE: JWC

USER NAME = prestonme	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 "/>		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 158 & WHERRY RD.  
DETECTOR LOOP REPLACEMENT PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	32

CONTRACT NO. 76M73  
ILLINOIS FED. AID PROJECT

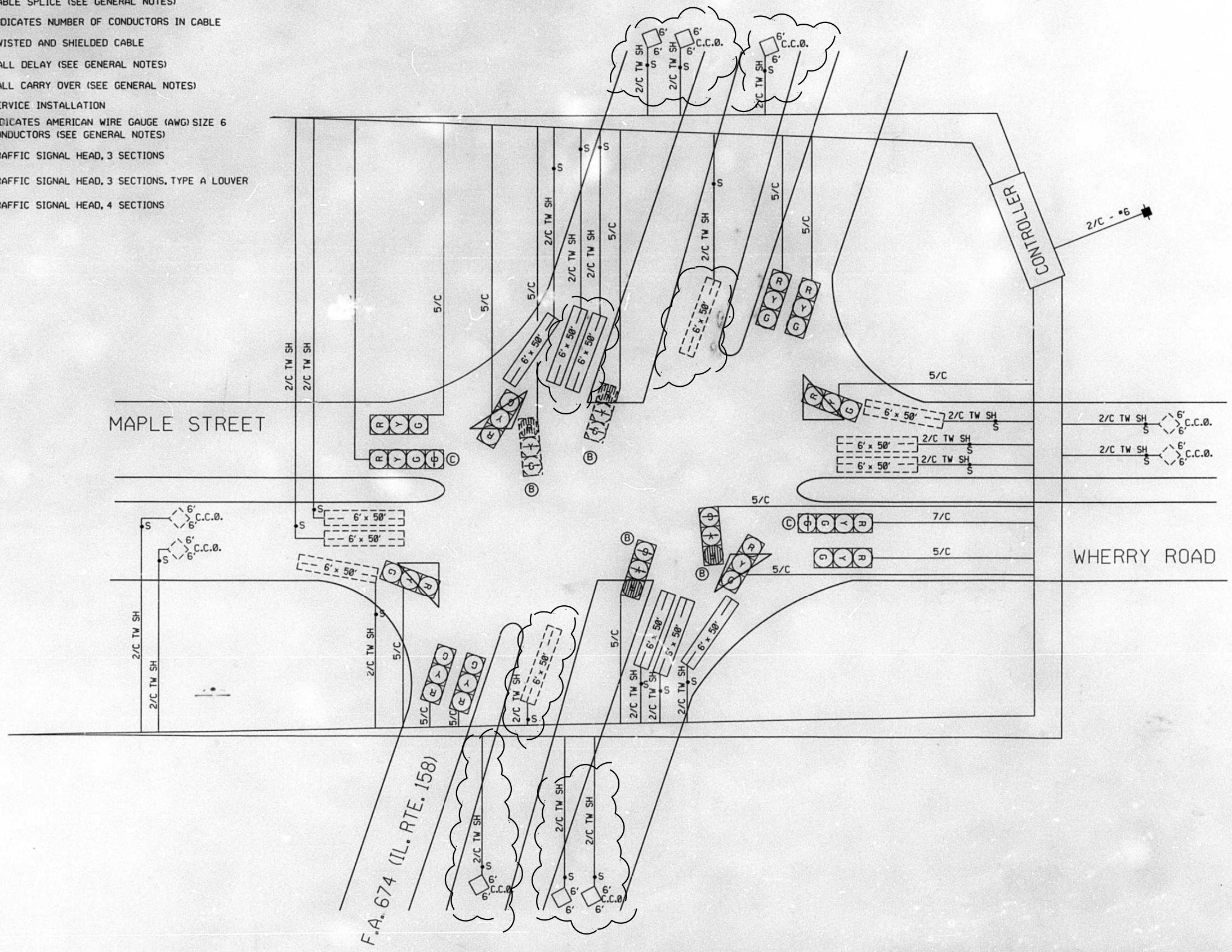
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	410-(1,2,3) TS-1	ST. CLAIR	11	11
F.A.P. REG 5		ILLINOIS	FED. AID PROJECT	

2001 01 932



**CABLE DIAGRAM LEGEND**

- ELECTRIC CABLE IN CONDUIT
- S CABLE SPLICE (SEE GENERAL NOTES)
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- TW SH TWISTED AND SHIELDED CABLE
- CD CALL DELAY (SEE GENERAL NOTES)
- CCO CALL CARRY OVER (SEE GENERAL NOTES)
- SERVICE INSTALLATION
- 6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)
- TRAFFIC SIGNAL HEAD, 3 SECTIONS
- TRAFFIC SIGNAL HEAD, 3 SECTIONS, TYPE A LOUVER
- TRAFFIC SIGNAL HEAD, 4 SECTIONS



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CABLE DIAGRAM**  
 F.A.P. ROUTE 674  
 SECTION 410-(1,2,3) TS-1  
 ST. CLAIR COUNTY  
 IL. RTE. 158 &  
 MAPLE ST./WHERRY ROAD  
 SCALE: NONE DRAWN BY: JVR

MODEL: Default  
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PLOT DATE = 5/31/2019	DATE -	REVISED -

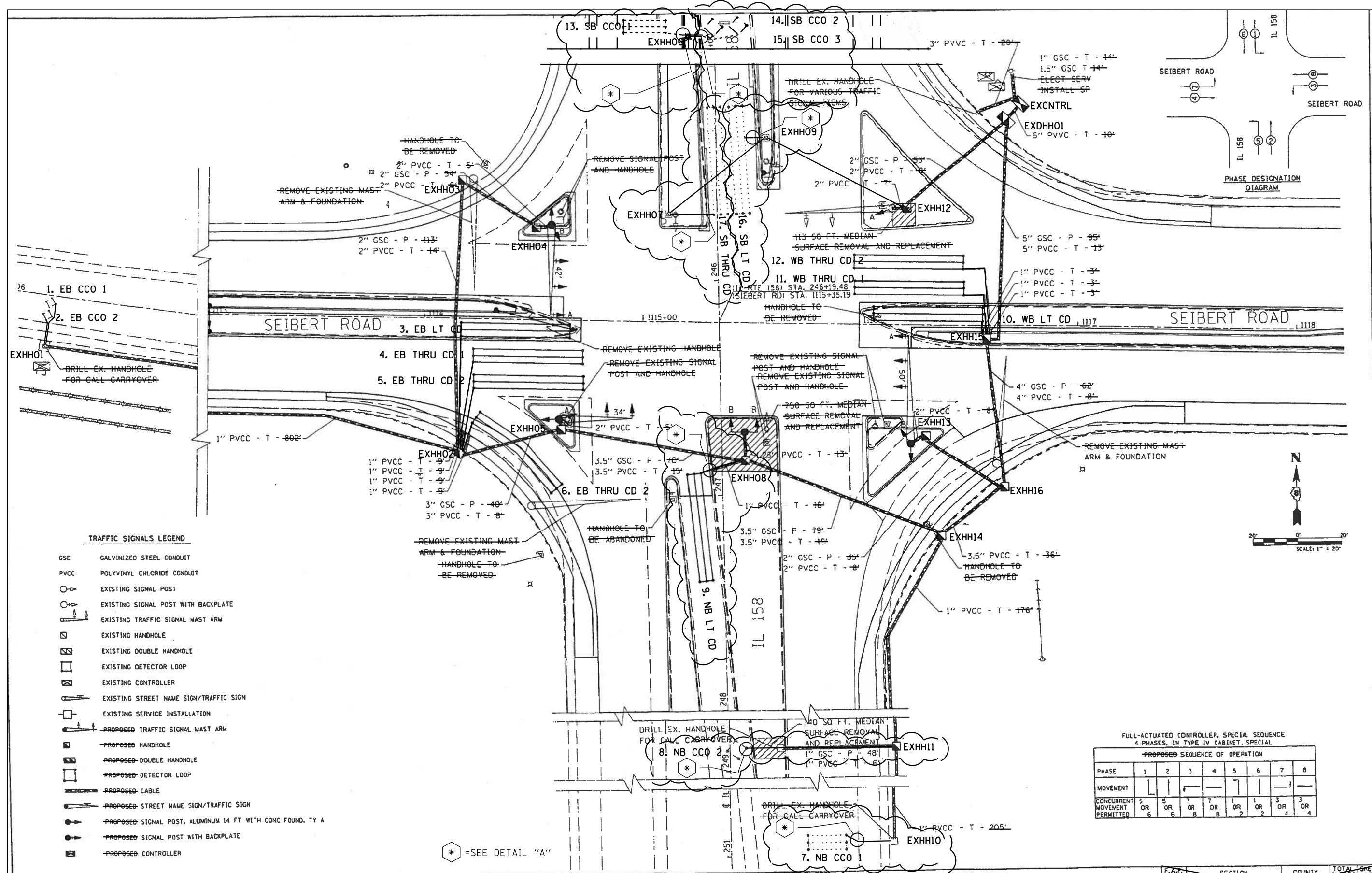
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 158 & WHERRY RD.  
 CABLE DIAGRAM**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	33
		CONTRACT NO. 76M73		
		ILLINOIS FED. AID PROJECT		





**TRAFFIC SIGNALS LEGEND**

- GSC GALVANIZED STEEL CONDUIT
- PVCC POLYVINYL CHLORIDE CONDUIT
- EXISTING SIGNAL POST
- EXISTING SIGNAL POST WITH BACKPLATE
- EXISTING TRAFFIC SIGNAL MAST ARM
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- EXISTING DETECTOR LOOP
- EXISTING CONTROLLER
- EXISTING STREET NAME SIGN/TRAFFIC SIGN
- EXISTING SERVICE INSTALLATION
- PROPOSED TRAFFIC SIGNAL MAST ARM
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED DETECTOR LOOP
- PROPOSED CABLE
- PROPOSED STREET NAME SIGN/TRAFFIC SIGN
- PROPOSED SIGNAL POST, ALUMINUM 14 FT WITH CONC FOUND. TY A
- PROPOSED SIGNAL POST WITH BACKPLATE
- PROPOSED CONTROLLER

\* =SEE DETAIL "A"

FULL-ACTUATED CONTROLLER, SPECIAL SEQUENCE  
4 PHASES, IN TYPE IV CABINET, SPECIAL

**PROPOSED SEQUENCE OF OPERATION**

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]
CONCURRENT MOVEMENT PERMITTED	5 OR 6	7 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL PLANS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	410-1-N	ST. CLAIR	58	48
				CONTRACT NO. 76C63

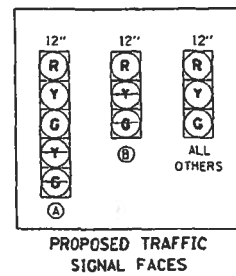
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 158 & SEIBERT RD.  
DETECTOR LOOP REPLACEMENT PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	34
				CONTRACT NO. 76M73

SCALE: SHEET OF SHEETS STA. TO STA.

MODEL: Default  
 FILE: Model\_Plan.dwg  
 PROJECT: 158 & Seibert Rd Traffic Signal Plans  
 DRAWN: J. Preston  
 CHECKED: J. Preston  
 DATE: 5/31/2019



SEIBERT ROAD

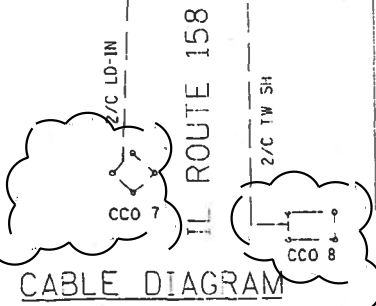
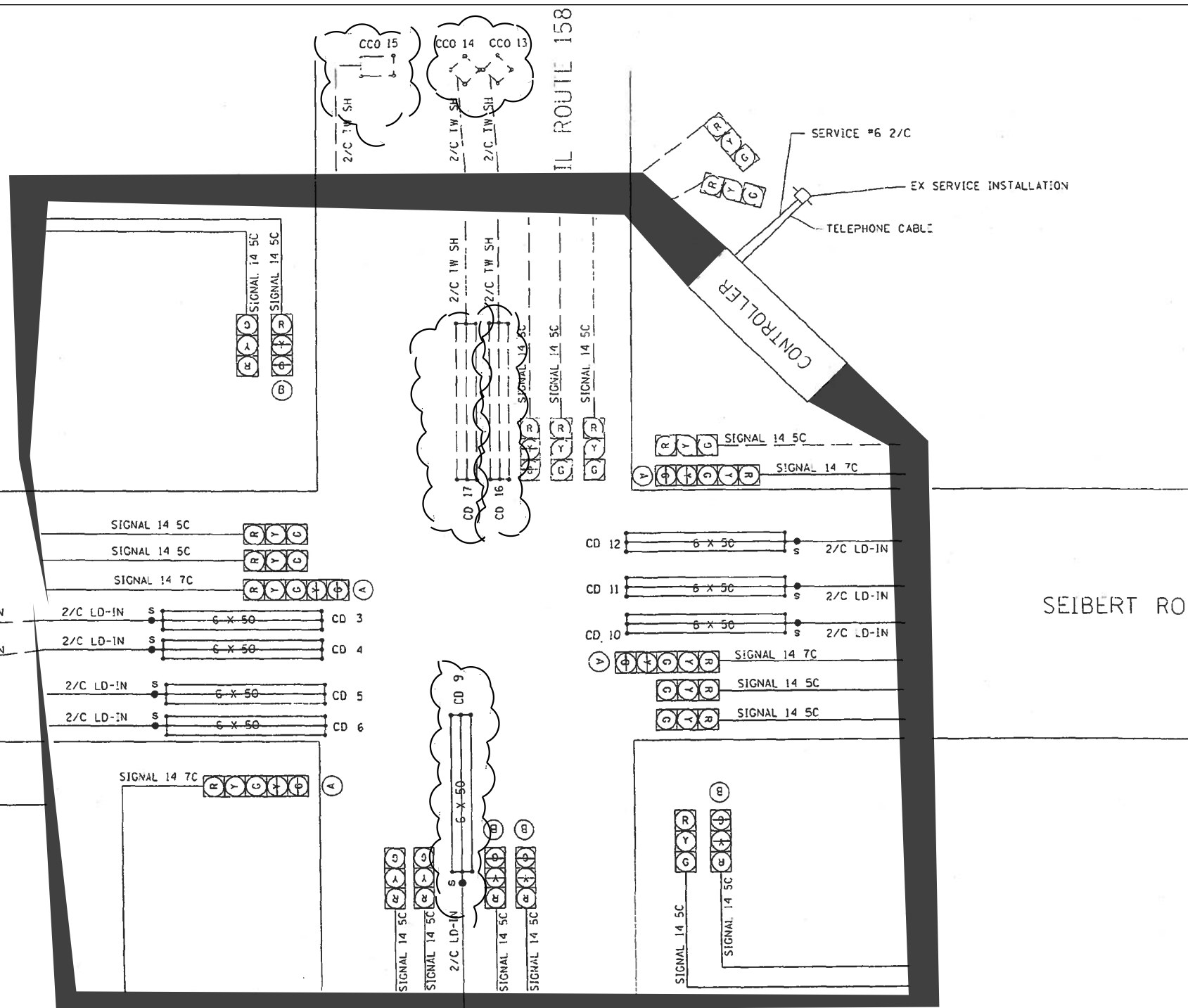
IL ROUTE 158

SEIBERT ROAD



**CABLE DIAGRAM LEGEND**

- ELECTRIC CABLE IN CONDUIT
- EXISTING ELECTRIC CABLE IN CONDUIT
- ⊙ CABLE SPLICE (SEE GENERAL NOTES)
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- LD IN ELECTRIC CABLE LEAD-IN, 1 PAIR
- CD CALL DELAY
- CCO CALL CARRY OVER
- EXISTING SERVICE INSTALLATION
- \*6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)



MODEL: Default  
FILE: Model.dwg  
PROJECT: I:\Projects\1076173\1076173.dwg  
PROJECT: I:\Projects\1076173\1076173.dwg  
PROJECT: I:\Projects\1076173\1076173.dwg

FILE NAME #	USER NAME #	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CABLE DIAGRAM		F.A.P. RTE. 674	SECTION 410-1-N	COUNTY ST. CLAIR	TOTAL SHEETS 58	SHEET NO. 47
#FILE#	#USER#	DRAWN -	REVISED -					SCALE: 1:20	SHEET NO. 2 OF 3	SHEETS STA.	CONTRACT NO. 76C63	
		CHECKED -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -									

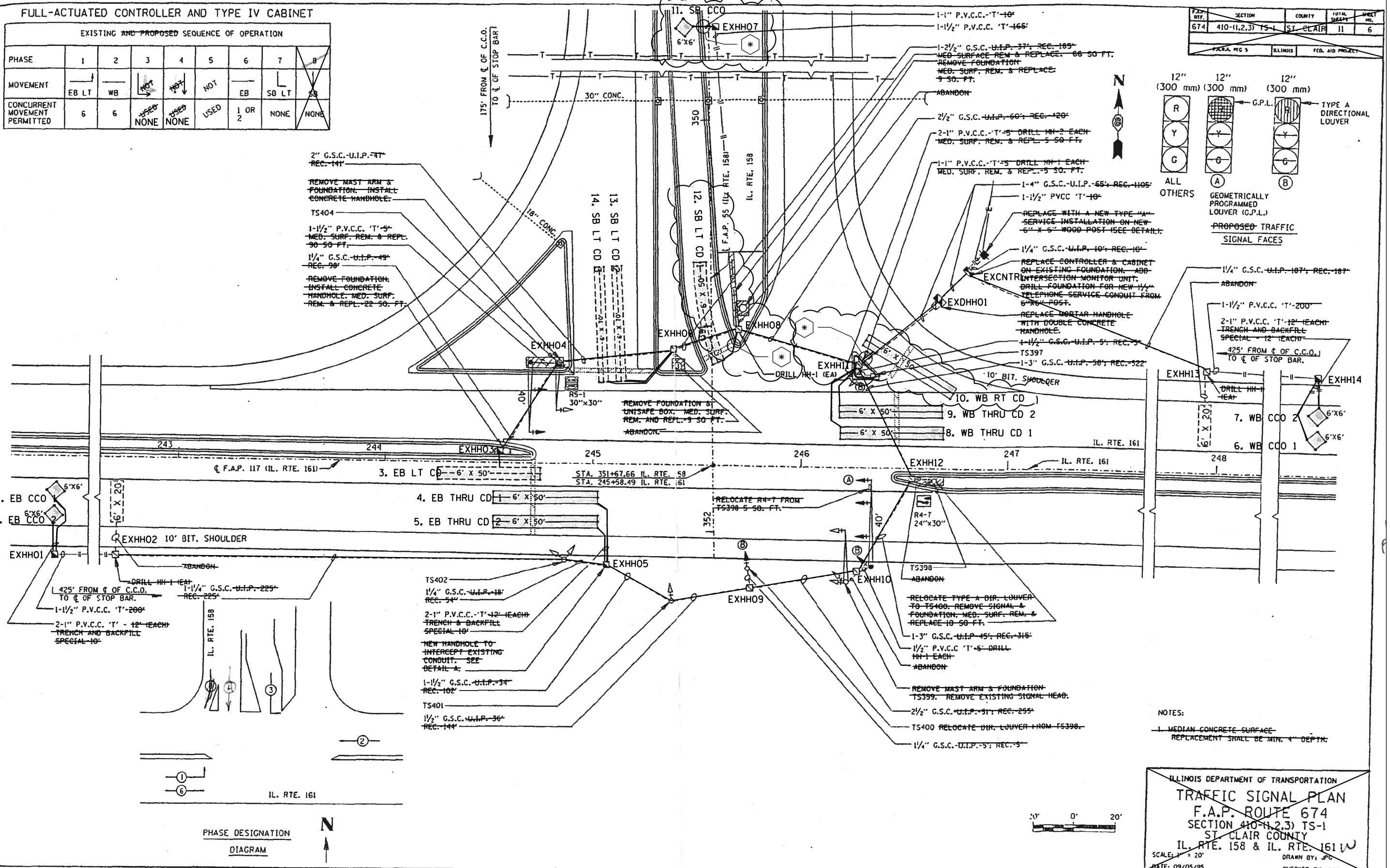
USER NAME = prestonme	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IL 158 & SEIBERT RD. CABLE DIAGRAM		F.A.P. RTE. 674	SECTION (31,410,410-1)RS-3	COUNTY ST. CLAIR	TOTAL SHEETS 37	SHEET NO. 35
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -					SCALE:	SHEET OF SHEETS	STA.	CONTRACT NO. 76M73	
PLOT DATE = 5/31/2019	CHECKED -	REVISED -							ILLINOIS FED. AID PROJECT		
	DATE -	REVISED -									



**FULL-ACTUATED CONTROLLER AND TYPE IV CABINET**

**EXISTING AND PROPOSED SEQUENCE OF OPERATION**

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	EB LT	WB	SB	SB	NOT	NOT	NOT	NOT
CONCURRENT MOVEMENT PERMITTED	6	6	NONE	NONE	USED	1 OR 2	NONE	NONE



NOTES:  
 1. MEDIAN CONCRETE SURFACE REPLACEMENT SHALL BE MIN. 4" DEPTH.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL PLAN**  
 F.A.P. ROUTE 674  
 SECTION 410-(1,2,3) TS-1  
 ST. CLAIR COUNTY  
 IL. RTE. 158 & IL. RTE. 161  
 SCALE: 1" = 20'  
 DATE: 09/05/95  
 DRAWN BY: JPO  
 CHECKED BY: MAX

USER NAME = prestonme	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/31/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 158 & IL 161**  
**DETECTOR LOOP REPLACEMENT PLAN**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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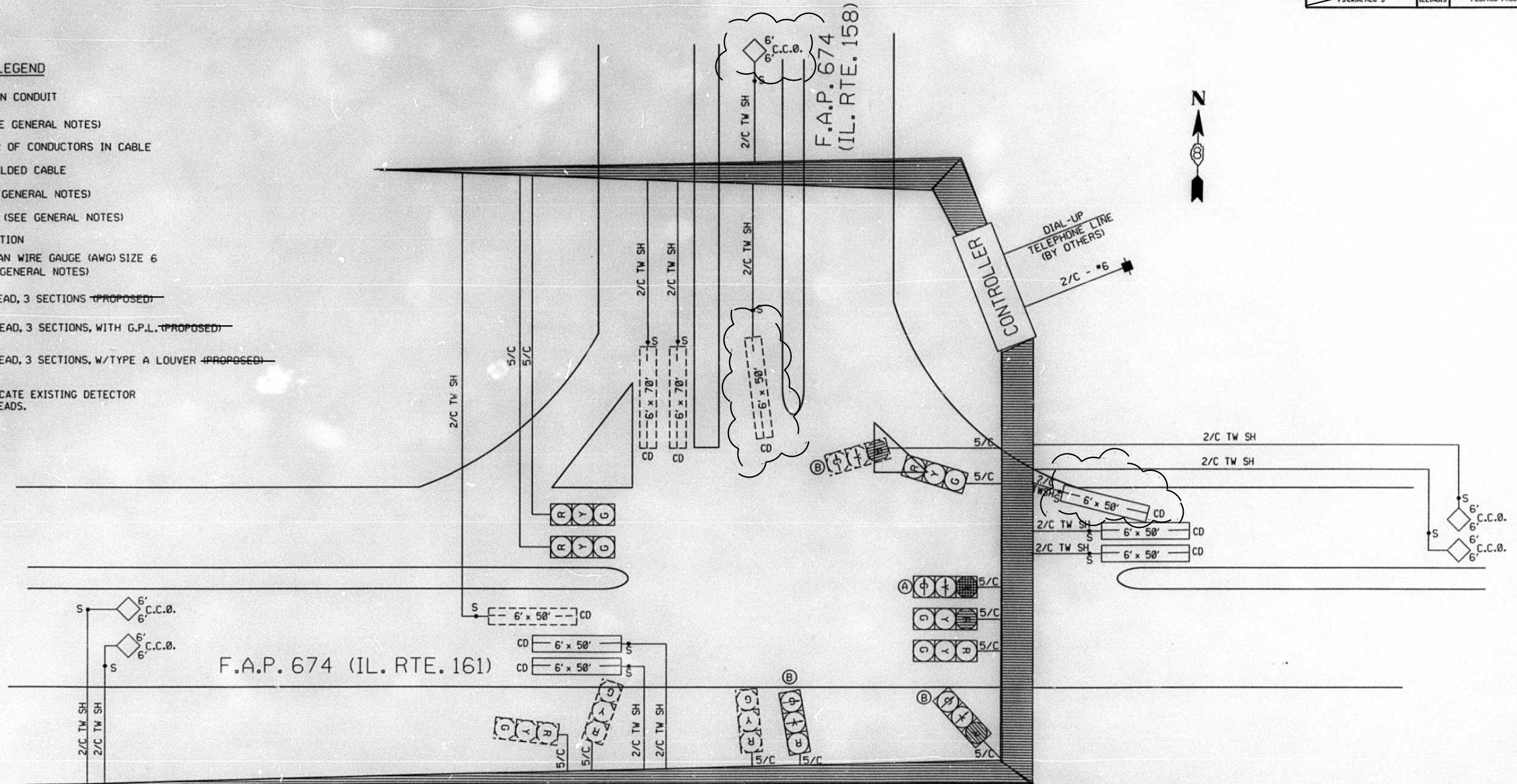
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	36
			CONTRACT NO. 76M73	
		ILLINOIS	FED. AID PROJECT	

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	410-11,2,3 TS-1	ST. CLAIR	11	7
F.A.P. REG. 5		ILLINOIS	FED. AID PROJECT	

**CABLE DIAGRAM LEGEND**

- ELECTRIC CABLE IN CONDUIT
- S CABLE SPLICE (SEE GENERAL NOTES)
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- TW SH TWISTED AND SHIELDED CABLE
- CD CALL DELAY (SEE GENERAL NOTES)
- CCO CALL CARRY OVER (SEE GENERAL NOTES)
- SERVICE INSTALLATION
- \*6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)
- (R) (Y) (G) TRAFFIC SIGNAL HEAD, 3 SECTIONS (PROPOSED)
- (R) (Y) (G) (A) TRAFFIC SIGNAL HEAD, 3 SECTIONS, WITH G.P.L. (PROPOSED)
- (R) (Y) (G) (B) TRAFFIC SIGNAL HEAD, 3 SECTIONS, W/TYPE A LOUVER (PROPOSED)
- - - - - BROKEN LINES INDICATE EXISTING DETECTOR LOOPS & SIGNAL HEADS.



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CABLE DIAGRAM**  
 F.A.P. ROUTE 674  
 SECTION 410-11,2,3 TS-1  
 ST. CLAIR COUNTY  
 IL. RTE. 158 & IL. RTE. 161  
 SCALE: NONE DRAWN BY: JVV  
 DATE: 09/05/95 CHECKED BY: WAK

MODEL: Default  
 FILE: Model\_C:\pub\planroom\dat\illinois\pwr\RIDOT\Documents\DOT\_Offices\District\_8\Projects\10876M73\CADD\Drawn\CableDiagrams\10876M73-3bc-5.dgn

USER NAME = prestonme	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 5/31/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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**IL 158 & IL 161  
 CABLE DIAGRAM**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	(31,410,410-1)RS-3	ST. CLAIR	37	37
CONTRACT NO. 76M73		ILLINOIS FED. AID PROJECT		