

114

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1,2,3-RS-3	ST. CLAIR	13	1
		ILLINOIS	CONTRACT NO. 76N22	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

NORTH OF THE SOUTH
JUNCTION OF FIRE HOUSE
DRIVE TO DYROFF AVENUE:
2018 ADT = 4550 (ACTUAL)
2020 ADT = 4600 (ESTIMATED)
2040 ADT = 5100 (ESTIMATED)
SU = 5.6% MU = 8.2%

DYROFF AVENUE TO NORTH OF
MOUSETTE AVENUE:
2018 ADT = 3850 (ACTUAL)
2020 ADT = 3900 (ESTIMATED)
2040 ADT = 4300 (ESTIMATED)
SU = 9.1% MU = 9.7%

PROPOSED
HIGHWAY PLANS

FAU ROUTE 9296 (MAIN STREET)
SECTION 64-1,2,3-RS-3

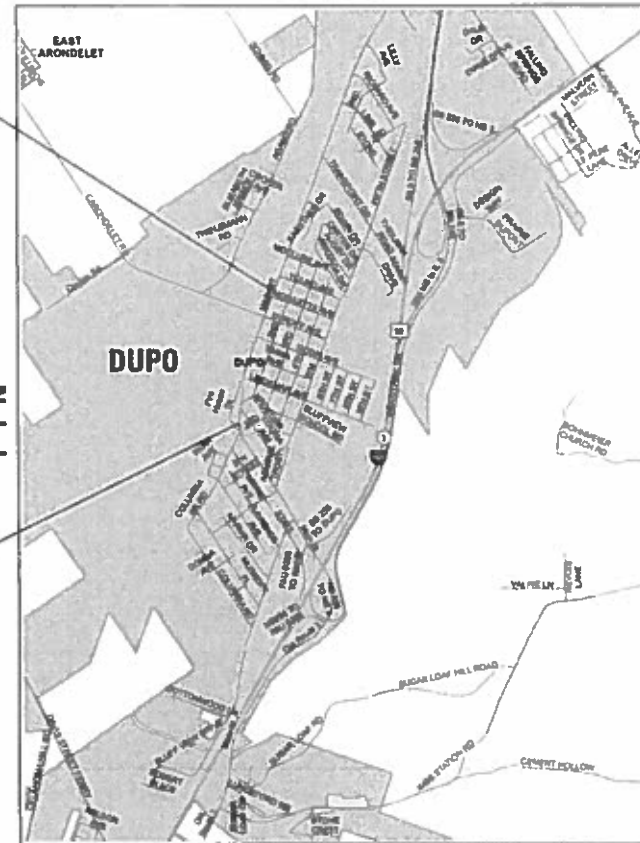
RESURFACING - SMART - CM
ST. CLAIR COUNTY

C-98-062-20

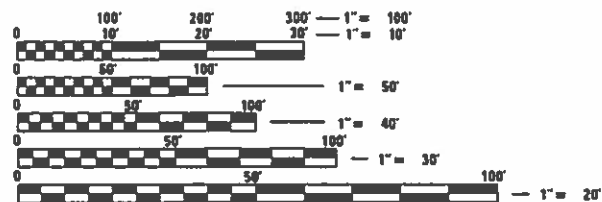
R 10 W

END PROJECT
NORTH OF
MOUSETTE AVE
STATION 199+28
LATITUDE: 38.52433
LONGITUDE: -90.20846

BEGIN PROJECT
NORTH OF THE
SOUTH JUNCTION
OF FIREHOUSE DRIVE
STATION 170+82
LATITUDE: 38.51685
LONGITUDE: -90.21107



NOT TO SCALE



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 811

PROJECT ENGINEER HERVE GELIN 618-346-3179
PROJECT MANAGER BILLIE OWEN 618-346-3209

CONTRACT NO. 76N22

GROSS LENGTH = 2846.00 FT. = 0.540 MILE
NET LENGTH = 2846.00 FT. = 0.540 MILE

D-98-048-20



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED Nov. 26, 2019
Kath Roberts
REGIONAL ENGINEER
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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- 13 MAIN ST.(OLD IL 3) & CARONDELET AVE./DYROFF ST. DETECTOR LOOP REPLACEMENT PLAN

HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 420001-09 PAVEMENT JOINTS
- 442201-03 CLASS C AND D PATCHES
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
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- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 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
- 886006-01 TYPICAL LAYOUTS FOR DETECTOR LOOPS

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA 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
*CHARTER COMMUNICATIONS, INC. (CABLE TV)	X	X
*CITY OF COLUMBIA (WATER & SANITARY SEWER)		X
*VILLAGE OF DUPO (WATER & SANITARY SEWER)		X
*VILLAGE OF DUPO (GAS)		X
*HARRISONVILLE TELEPHONE COMPANY (COMMUNICATIONS)	X	X
*PRAIRIE DU PONT PUBLIC WATER DISTRICT (WATER)		X
*SUGAR LOAF TOWNSHIP SEWER SYSTEM (SANITARY SEWER)		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.

2. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING SHOWN IN THE PLAN SHEETS WAS CREATED USING MICROFILM. IT SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
3. 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.
4. THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL TIMES.
5. THE CONTRACTOR MUST MAINTAIN TWO 10' LANES WHILE UNDER TWO LANE, TWO WAY TRAFFIC.
6. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE	PATCHING
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (Gradation)	IL 9.5	IL 19.0
FRICITION AGG	MIXTURE "D"	MIXTURE "B"
QUALITY MGMT PROGRAM	QC/QA	QC/QA

PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.

7. AN ESTIMATED QUANTITY OF 703 TONS OF CUTTINGS FROM THE HOT-MIX ASPHALT SURFACE REMOVAL OPERATION IS ANTICIPATED.
8. 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.
9. THE ENGINEER SHALL NOTE BEGINNING AND END STATIONS FOR NO PASSING ZONES PRIOR TO MILLING.
10. "SHORT TERM PAVEMENT MARKING REMOVAL" SHALL ONLY BE MEASURED AND PAID FOR ON THE FINAL SURFACE LIFT.
11. PAVEMENT MARKINGS SHALL MATCH EXISTING MARKINGS AS DIRECTED BY THE ENGINEER.
12. NO OVERNIGHT LANE CLOSURES WILL BE PERMITTED.
13. 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 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 MEETING WORKFORCE AND TRAINEE GOALS.

13. IF THE PROPOSED SURFACE REMOVAL ON THIS PROJECT PRODUCES A MILLED EDGE NEAR CENTERLINE 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 ALONG THE CENTERLINE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
- * THE CONTRACTOR SHALL CONSTRUCT A MILLED SLOPE EDGE (MINIMUM 1:3) ALONG THE CENTERLINE 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 OR IN THE COST PER TON FOR THE HOT-MIX ASPHALT RESURFACING MIXES SPECIFIED IN THE PLANS.

COMMITMENTS

NONE

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	PLOT DATE = 10/31/2019	DATE -	REVISIED -			SCALE:		SHEET 1 OF 1 SHEETS		STA. TO STA.	
ILLINOIS FED. AID PROJECT											

100%
STATE

CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY
				0005 URBAN
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	3960	3960
40600990	TEMPORARY RAMP	SQ YD	540	540
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	806	806
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	4060	4060
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	4739	4739
44200128	PAVEMENT PATCHING, TYPE I, 11 INCH	SQ YD	6	6
44200132	PAVEMENT PATCHING, TYPE II, 11 INCH	SQ YD	59	59
44200136	PAVEMENT PATCHING, TYPE III, 11 INCH	SQ YD	74	74
44200138	PAVEMENT PATCHING, TYPE IV, 11 INCH	SQ YD	905	905
44200152	PAVEMENT PATCHING, TYPE I, 13 INCH	SQ YD	6	6
44200156	PAVEMENT PATCHING, TYPE II, 13 INCH	SQ YD	53	53
44200160	PAVEMENT PATCHING, TYPE III, 13 INCH	SQ YD	23	23
44200162	PAVEMENT PATCHING, TYPE IV, 13 INCH	SQ YD	184	184
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	2138	2138

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1,2,3-RS-3	ST. CLAIR	13	3
CONTRACT NO. 76N22			ILLINOIS FED. AID PROJECT	

100%
STATE

CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY
				0005 URBAN
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	134	134
67100100	MOBILIZATION	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	581	581
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	65	65
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	201	201
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	9376	9376
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	105	105
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	96	96
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	201	201
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE4"	FOOT	9376	9376
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	105	105
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	96	96

* SPECIALTY ITEM

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1,2,3-RS-3	ST. CLAIR	13	4
			CONTRACT NO. 76N22	
		ILLINOIS	FED. AID PROJECT	

100%
STATE

CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005 URBAN
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	52	52
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	52	52
* 80300100	LOCATING UNDERGROUND CABLE	FOOT	50	50
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	975	975
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	3623	3623
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	3915	3915
Z0034105	MATERIAL TRANSFER DEVICE	TON	806	806

*** SPECIALTY ITEM**

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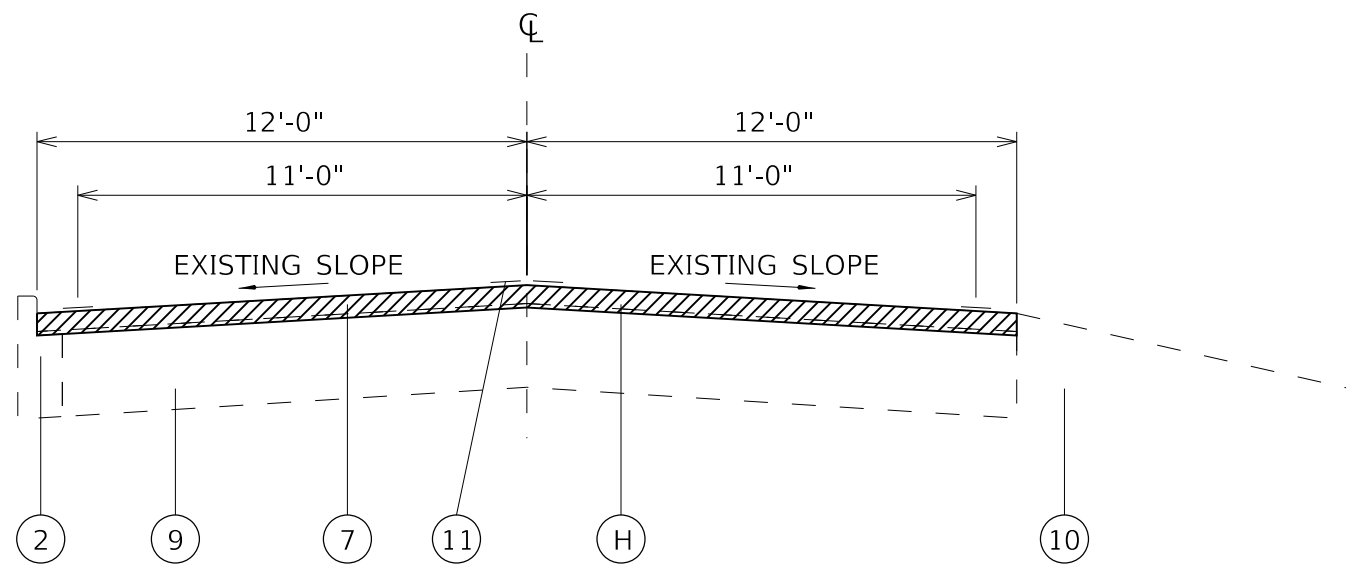
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

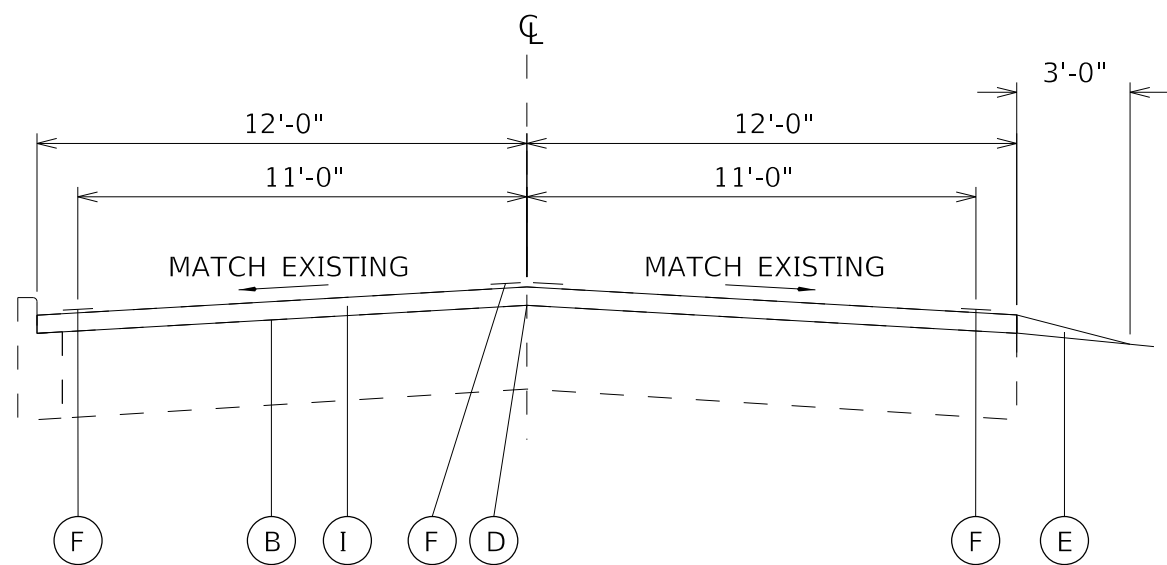
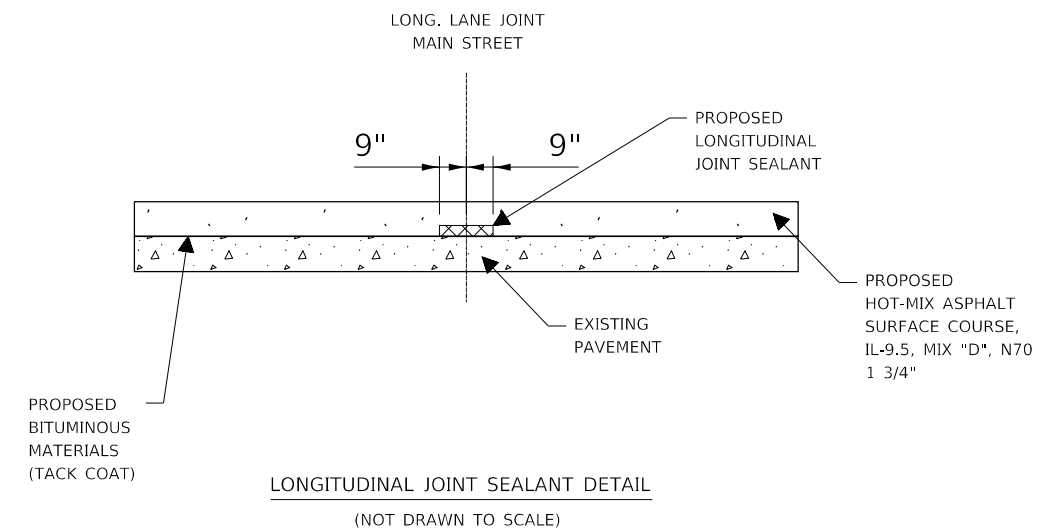
SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1,2,3-RS-3	ST. CLAIR	13	5
CONTRACT NO. 76N22				
ILLINOIS		FED. AID PROJECT		



EXISTING TYPICAL SECTION
STA. 179+28 TO STA. 188+59



PROPOSED TYPICAL SECTION
STA. 179+28 TO STA. 188+59

LEGEND

- ① EXISTING PCC PAVEMENT (9-6-9)
- ② EXISTING RESURFACING 1 3/4"
- ③ EXISTING PCC WIDENING
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING AGGREGATE SHOULDERS, TYPE B
- ⑥ EXISTING HMA SURFACE COURSE, MIX "D", N70; 1 1/2"
- ⑦ EXISTING HMA, MIX "D", CL 1, T 2; 1 1/2"
- ⑧ EXISTING COMB. CURB & GUTTER
- ⑨ EXISTING PAVEMENT (9-7-9) WITH EXISTING OVERLAY 1/4"
- ⑩ EXISTING EARTH OR AGGREGATE SHOULDERS
- ⑪ EXISTING PAVEMENT MARKING
- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- Ⓑ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- Ⓒ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
- Ⓓ PROPOSED LONGITUDINAL JOINT SEALANT
- Ⓔ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- Ⓕ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 4"
- Ⓖ PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
- Ⓗ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- Ⓘ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"

HMA SURFACE REMOVAL

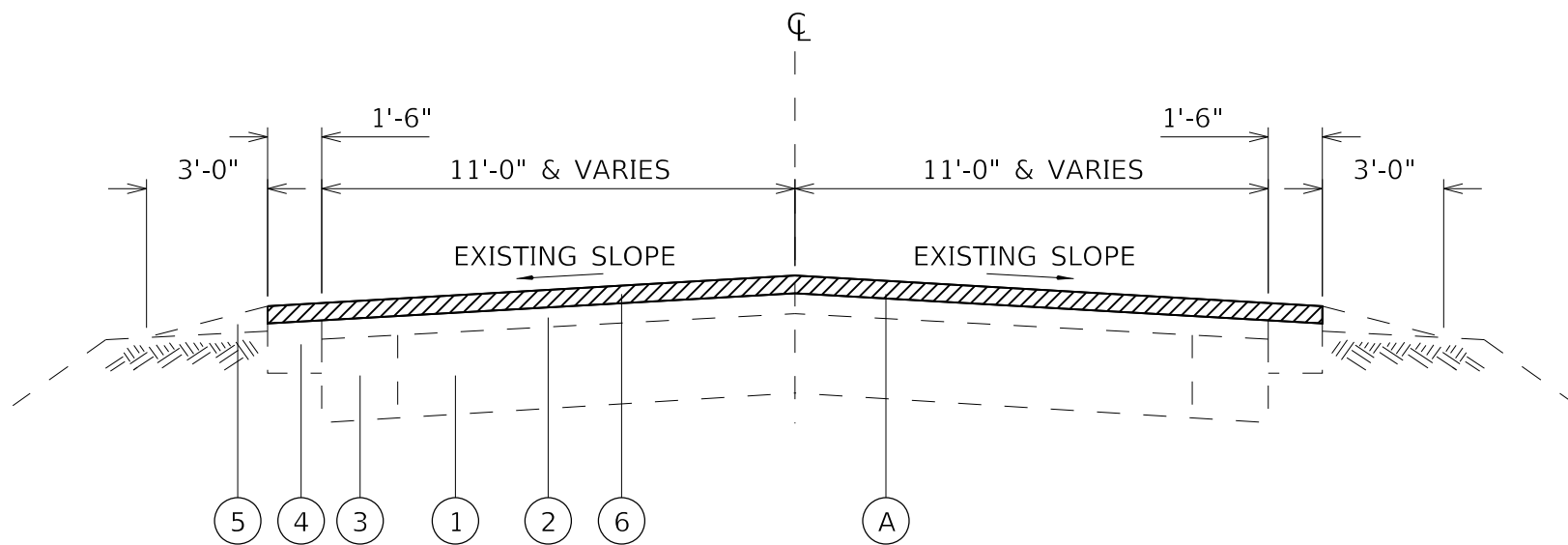
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DEPARTMENT OF TRANSPORTATION**

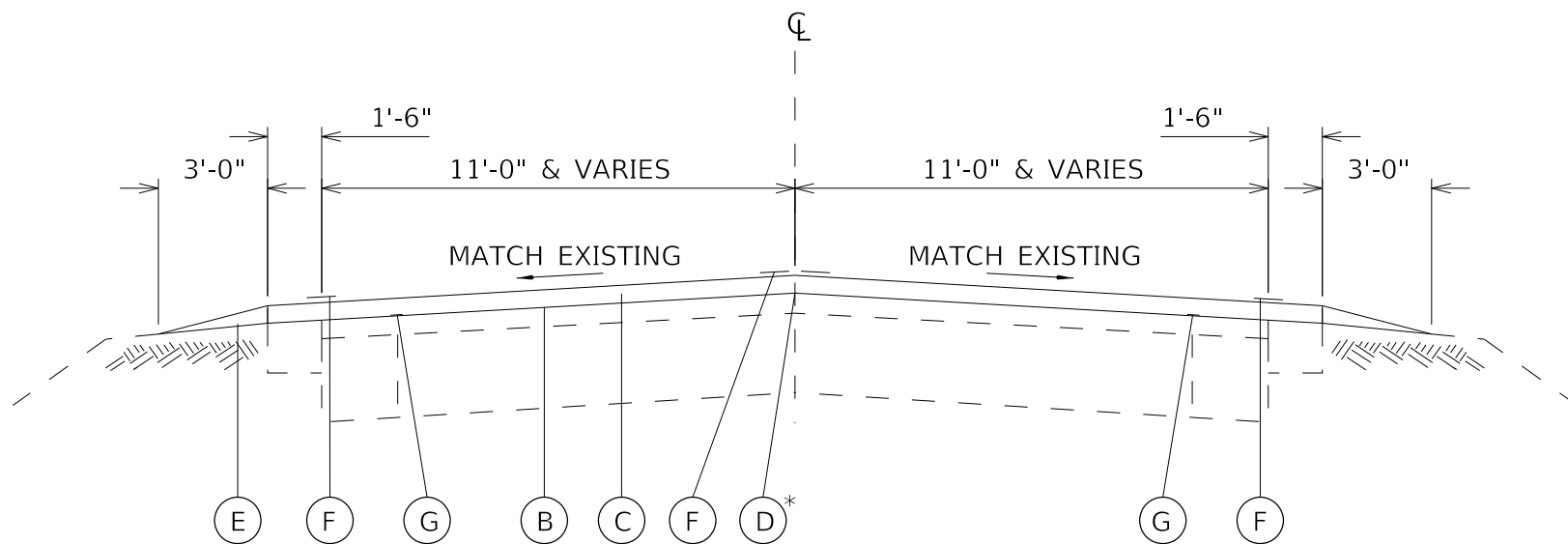
TYPICAL SECTIONS	
SCALE:	SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1,2,3-RS-3	ST. CLAIR	13	7
CONTRACT NO. 76N22			ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION
STA. 188+59 TO STA. 199+28

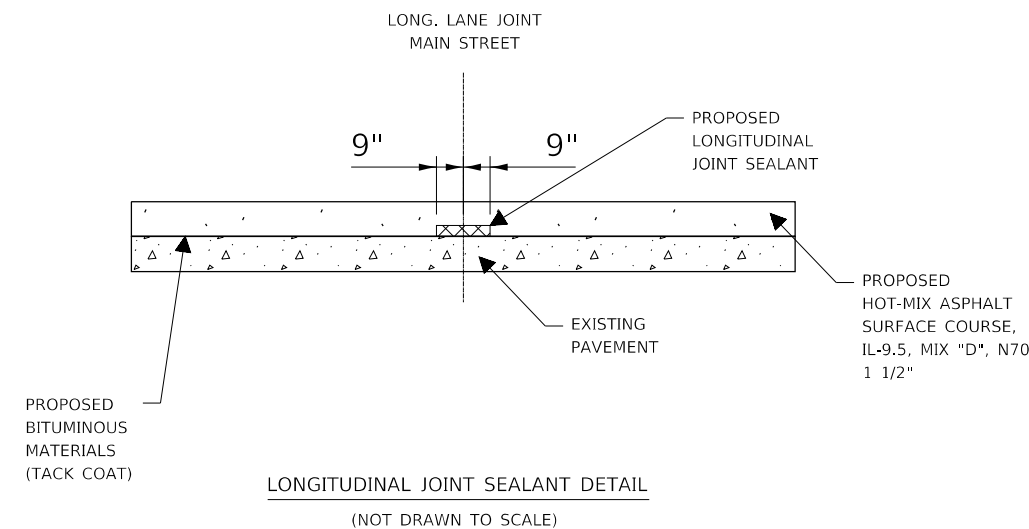
NOTE: HALF WIDTH VARIES FROM 12'-6" TO 18'-0"



PROPOSED TYPICAL SECTION
STA. 188+59 TO STA. 199+28

NOTE: HALF WIDTH VARIES FROM 12'-6" TO 18'-0"

* LONGITUDINAL JOINT SEALANT AT EACH LANE LINE THROUGH INTERSECTION



LONGITUDINAL JOINT SEALANT DETAIL
(NOT DRAWN TO SCALE)

LEGEND

- ① EXISTING PCC PAVEMENT (9-6-9)
- ② EXISTING RESURFACING 1 3/4"
- ③ EXISTING PCC WIDENING
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING AGGREGATE SHOULDERS, TYPE B
- ⑥ EXISTING HMA SURFACE COURSE, MIX "D", N70; 1 1/2"
- ⑦ EXISTING HMA, MIX "D", CL 1, T 2; 1 1/2"
- ⑧ EXISTING COMB. CURB & GUTTER
- ⑨ EXISTING PAVEMENT (9-7-9) WITH EXISTING OVERLAY 1/4"
- ⑩ EXISTING EARTH OR AGGREGATE SHOULDERS
- ⑪ EXISTING PAVEMENT MARKING
- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- Ⓑ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- Ⓒ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
- Ⓓ PROPOSED LONGITUDINAL JOINT SEALANT
- Ⓔ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- Ⓕ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 4"
- Ⓖ PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
- Ⓗ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- Ⓘ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"

HMA SURFACE REMOVAL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET 3	OF 3	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1,2,3-RS-3	ST. CLAIR	13	8
CONTRACT NO. 76N22			ILLINOIS FED. AID PROJECT	

RESURFACING SCHEDULE										
STATION	TO	STATION	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	AGGREGATE WEDGE SHOULDER, TYPE B	LONGITUDINAL JOINT SEALANT	MATERIAL TRANSFER DEVICE	STRIP REFLECTIVE CRACK CONTROL TREATMENT
			POUND	TON	SQ YD	SQ YD	TON	FOOT	TON	FOOT
170+82	TO	179+28	1015.20	221.09		2256.00	47.38	846.00	221.09	
179+28	TO	188+59	1117.20	243.30		2482.67	26.07	931.00	243.30	
188+59	TO	199+28	1827.00	341.04	4060.00		59.86	2138.00	341.04	2138.00
TOTAL			3960	806	4060	4739	134	3915	806	2138

PATCHING SCHEDULE													
MILE	LANE	LENGTH	WIDTH	AREA	PAVEMENT PATCHING, TYPE I, 11 INCH	PAVEMENT PATCHING, TYPE II, 11 INCH	PAVEMENT PATCHING, TYPE III, 11 INCH	PAVEMENT PATCHING, TYPE IV, 11 INCH	PAVEMENT PATCHING, TYPE I, 13 INCH	PAVEMENT PATCHING, TYPE II, 13 INCH	PAVEMENT PATCHING, TYPE III, 13 INCH	PAVEMENT PATCHING, TYPE IV, 13 INCH	
		FEET	FEET	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
0.000	NB	120.00	6.00	80.00				80.0					
0.000	NB	15.00	12.00	20.00			20.0						
0.000	NB	5.00	12.00	6.67		6.7							
0.000	NB	40.00	12.00	53.33				53.3					
0.100	NB	30.00	12.00	40.00				40.0					
0.100	NB	5.00	12.00	6.67		6.7							
0.100	NB	40.00	6.00	26.67				26.7					
0.100	NB	15.00	12.00	20.00			20.0						
0.100	NB	20.00	12.00	26.67				26.7					
0.200	NB	250.00	6.00	166.67				166.7					
0.300	NB	80.00	12.00	106.67				106.7					
0.300	NB	40.00	6.00	26.67				26.7					
0.300	NB	45.00	6.00	30.00				30.0					
0.400	NB	100.00	12.00	133.33								133.3	
0.500	NB	5.00	12.00	6.67					6.7				
0.000	SB	25.00	4.00	11.11		11.1							
0.100	SB	30.00	4.00	13.33		13.3							
0.200	SB	30.00	4.00	13.33		13.3							
0.200	SB	120.00	12.00	160.00				160.0					
0.300	SB	18.00	12.00	24.00			24.0						
0.300	SB	10.00	4.00	4.44	4.4								
0.300	SB	55.00	6.00	36.67				36.7					
0.300	SB	25.00	12.00	33.33				33.3					
0.400	SB	25.00	4.00	11.11					11.1				
0.400	SB	20.00	12.00	26.67								26.7	
0.400	SB	6.00	12.00	8.00					8.0				
0.400	SB	30.00	6.00	20.00							20.0		
0.500	SB	5.00	12.00	6.67					6.7				
0.500	SB	10.00	4.00	4.44				4.4					
0.500	SB	20.00	6.00	13.33					13.3				
SUBTOTAL					4.4	51.1	64.0	786.7	4.4	45.8	20.0	160.0	
15% ADDITION					0.7	7.7	9.6	118.0	0.7	6.9	3.0	24.0	
TOTAL					6	59	74	905	6	53	23	184	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES			
SCALE:	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1,2,3-RS-3	ST. CLAIR	13	9
			CONTRACT NO. 76N22	
		ILLINOIS	FED. AID PROJECT	

TEMPORARY RAMP SCHEDULE					
MAINLINE:					
LANE DIRECTION	STATION	LENGTH	LANE WIDTH	TEMPORARY RAMP	
		FEET	FEET	SQ YD	
NB	170+82	30	12	40.00	
NB	199+28	30	12	40.00	
SB	170+82	30	12	40.00	
SB	199+28	30	12	40.00	
SUBTOTAL				160.00	
SIDE ROADS AND PRIVATE ENTRANCES:					
TYPE	LOCATION	NO. OF P.E.'S	LENGTH	LANE WIDTH	TEMPORARY RAMP
		P.E.'S	FEET	FEET	SQ YD
PE	START OF PROJ. TO LOUISA AVE	4	2	138	30.67
SR	LOUISA AVE		2	80	17.78
SR	S 2ND ST		2	85	18.89
PE	S 2ND ST TO LINDEMAN AVE	9	2	397	88.22
SR	LINDEMAN AVE		2	52	11.56
PE	LINDEMAN AVE TO EMMA AVE	3	2	86	19.11
SR	EMMA AVE		2	49	10.89
PE	EMMA AVE TO GODIN AVE	1	2	29	6.44
SR	GODIN AVE		2	53	11.78
PE	GODIN AVE TO DYROFF AVE	2	2	269	59.78
SR	DYROFF AVE (EB)		2	83	18.44
SR	DYROFF AVE (WB)		2	132	29.33
PE	DYROFF AVE TO MOUSETTE AVE	2	2	90	20.00
SR	MOUSETTE AVE		2	61	13.56
PE	MOUSETTE AVE TO END OF PROJ.		2	105	23.33
SUBTOTAL					379.78
TOTAL (SUBTOTALS OF MAINLINE+SIDE ROADS AND PRIVATE ENTRANCES)					540

PAVEMENT MARKING SCHEDULE										
STATION	TO	STATION	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER			RAISED REFLECTIVE PAVEMENT MARKER REMOVAL		
			(2 APPLICATIONS)	(FINAL SURFACE ONLY)	ONE-WAY CRYSTAL	ONE-WAY AMBER	TWO-WAY AMBER	ONE-WAY CRYSTAL	ONE-WAY AMBER	TWO-WAY AMBER
			FOOT	SQ FT	EACH	EACH	EACH	EACH	EACH	EACH
170+82	TO	185+15	260.55	28.95			18			18
185+15	TO	188+59	62.55	6.95			5			5
188+59	TO	193+00	103.82	11.54	3	8		3	8	
193+94	TO	199+28	153.45	17.05	7	6	5	7	6	5
SUBTOTAL			581	65	10	14	28	10	14	28
TOTAL			581	65	52			52		

*NOTE: A 40:1 TAPER CANNOT BE CONSTRUCTED AT SIDE ROADS AND ENTRANCES

PAVEMENT MARKING SCHEDULE								
STATION	TO	STATION	THERMOPLASTIC PAVEMENT MARKING - LINE 4"			TEMPORARY PAVEMENT MARKING - LINE	THERMOPLASTIC PAVEMENT MARKING - LINE	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
			SOLID WHITE	SKIP-DASH YELLOW	SOLID YELLOW	SOLID YELLOW	SOLID WHITE	
			FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT
170+82	TO	185+15	2866.00	325.68				
185+15	TO	188+59	688.00	78.18	344.00			
188+59	TO	193+00	1012.00		1388.00	70.00	48.00	92.40
193+94	TO	199+28	1378.00		1296.00	35.00	48.00	108.00
SUBTOTAL			5944.00	404.00	3028.00	105.00	96.00	201.00
TOTAL				9376		105	96	201

PAVEMENT MARKING SCHEDULE									
STATION	TO	STATION	TEMPORARY PAVEMENT MARKING - LINE 4"			TEMPORARY PAVEMENT MARKING - LINE	TEMPORARY PAVEMENT MARKING - LINE	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	TEMPORARY PAVEMENT MARKING REMOVAL
			SOLID WHITE	SKIP-DASH YELLOW	SOLID YELLOW	SOLID YELLOW	SOLID WHITE		
			FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT
170+82	TO	185+15	2866.00	325.68					1063.89
185+15	TO	188+59	688.00	78.18	344.00				370.06
188+59	TO	193+00	1012.00		1388.00	70.00	48.00	92.40	1058.40
193+94	TO	199+28	1378.00		1296.00	35.00	48.00	108.00	1130.33
SUBTOTAL			5944.00	404.00	3028.00	105.00	96.00	201.00	3623.00
TOTAL				9376		105	96	201	3623

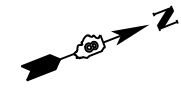
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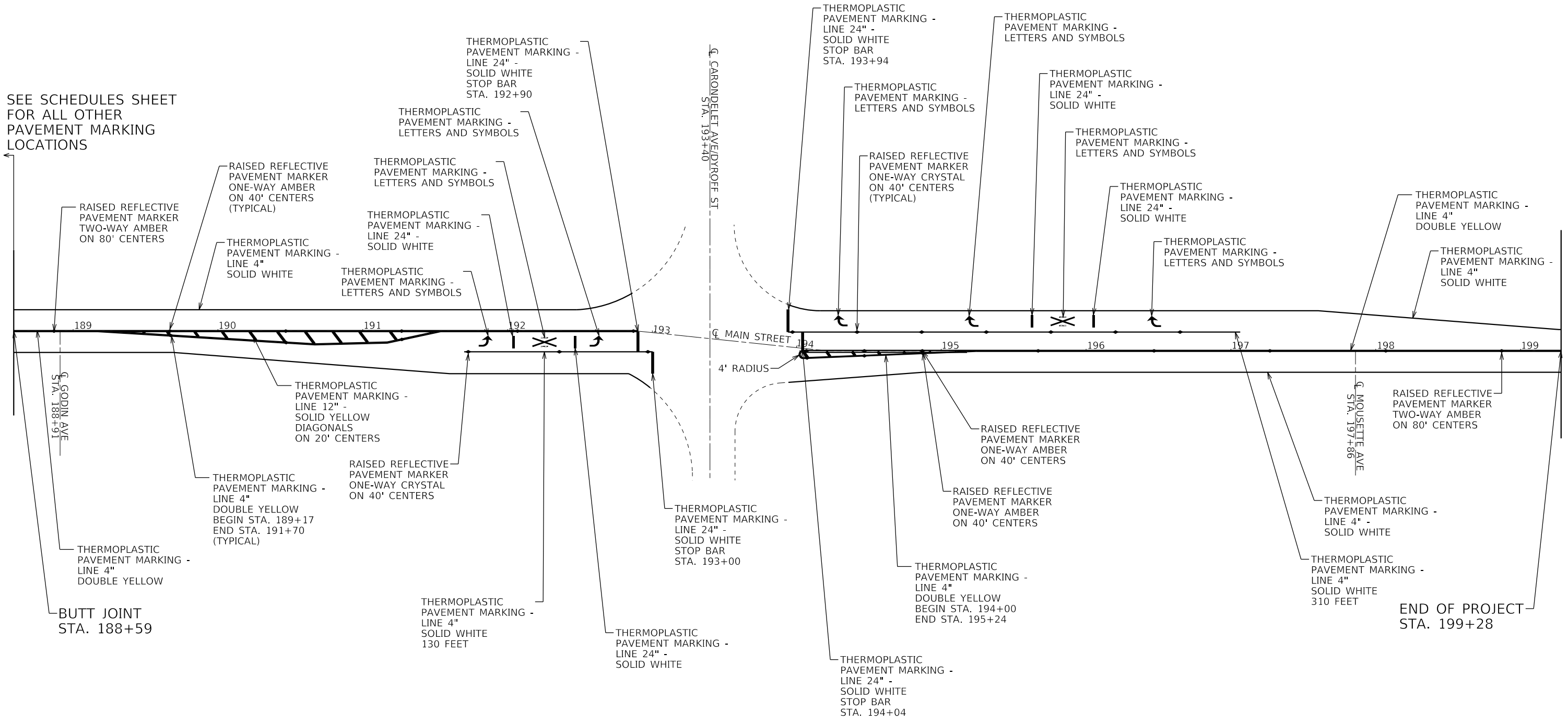
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1.2.3-RS-3	ST. CLAIR	13	10
CONTRACT NO. 76N22				
ILLINOIS FED. AID PROJECT				



SEE SCHEDULES SHEET FOR ALL OTHER PAVEMENT MARKING LOCATIONS



NOT TO SCALE

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 OFFICE: District 8
 DATE: 10/31/2019

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

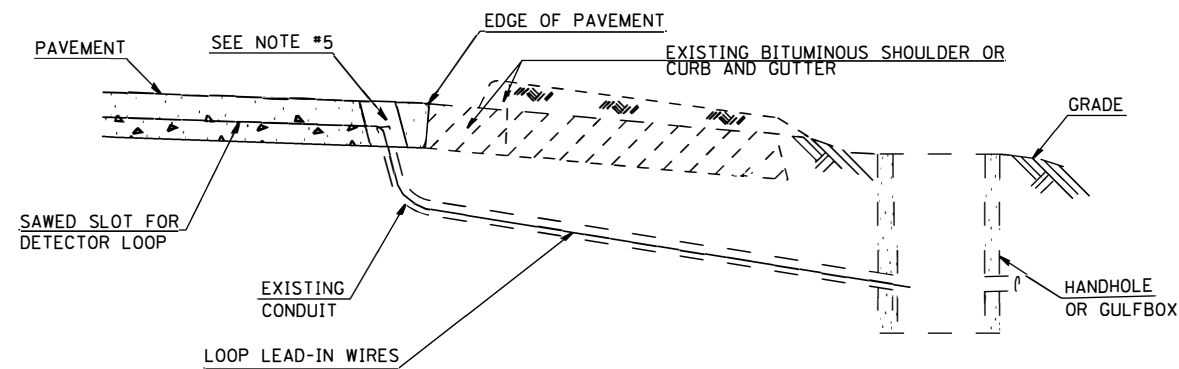
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1.2.3-RS-3	ST. CLAIR	13	11
CONTRACT NO. 76N22				
ILLINOIS		FED. AID PROJECT		

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	MAIN ST. (OLD IL 3) & CARONDELET AVE. / DYROFF ST.
CODE NO	ITEM	UNIT		
80300100	LOCATING UNDERGROUND CABLE	FOOT	50	50
88600600	DETECTOR LOOP REPLACEMENT	FOOT	975	975



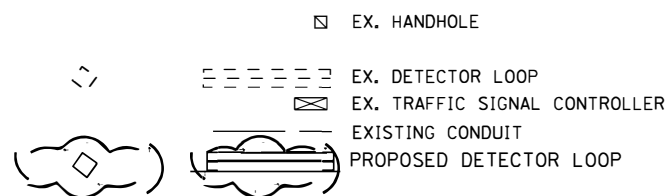
DETAIL A
(NO SCALE)

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



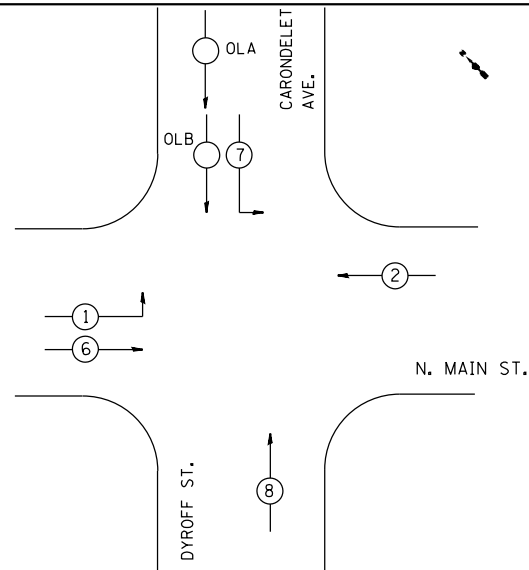
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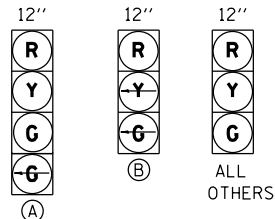
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT GENERAL NOTES, SCHEDULE OF QUANTITIES, DETAIL AND LEGEND			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F. A. U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1,2,3-R5-3	ST. CLAIR	13	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76N22	



PHASE DESIGNATION DIAGRAM



TRAFFIC SIGNAL FACES

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR MAIN ST (OLD IL 3) & CARONDELET AVE. /DYROFF ST.					
LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. NB CCO	6	6' x 6'	6	303.94	1.48
2. NB LT CD	1	6' x 50'(0)	3-6-3	813.50	2.22
3. NB THRU CD	6	6' x 50'(0)	3-6-3	808.22	2.10
4. WB THRU CD	8	6' x 50'(0)	3-6-3	822.30	2.42
5. SB CCO 1	2	6' x 6'	6	32.00	1.84
6. SB CCO 2	2	6' x 6'	6	317.14	1.78
7. SB LT CD	2	6' x 50'(0)	3-6-3	826.70	2.52
8. SB THRU CD	2	6' x 50'(0)	3-6-3	823.84	2.45
9. EB THRU 1 CD	OLA	6' x 50'(0)	3-6-3	832.42	2.65
10. EB THRU 2 CD	OLB	6' x 50'(0)	3-6-3	831.32	2.62
11. EB LT CD	7	6' x 32'(0)	3-6-3	524.80	1.25
12. EB THRU 3 CD	OLB	6' x 35'(0)	3-6-3	526.12	1.28
13. EB RT CD	OLB	6' x 40'(0)	3-6-3	658.88	1.81

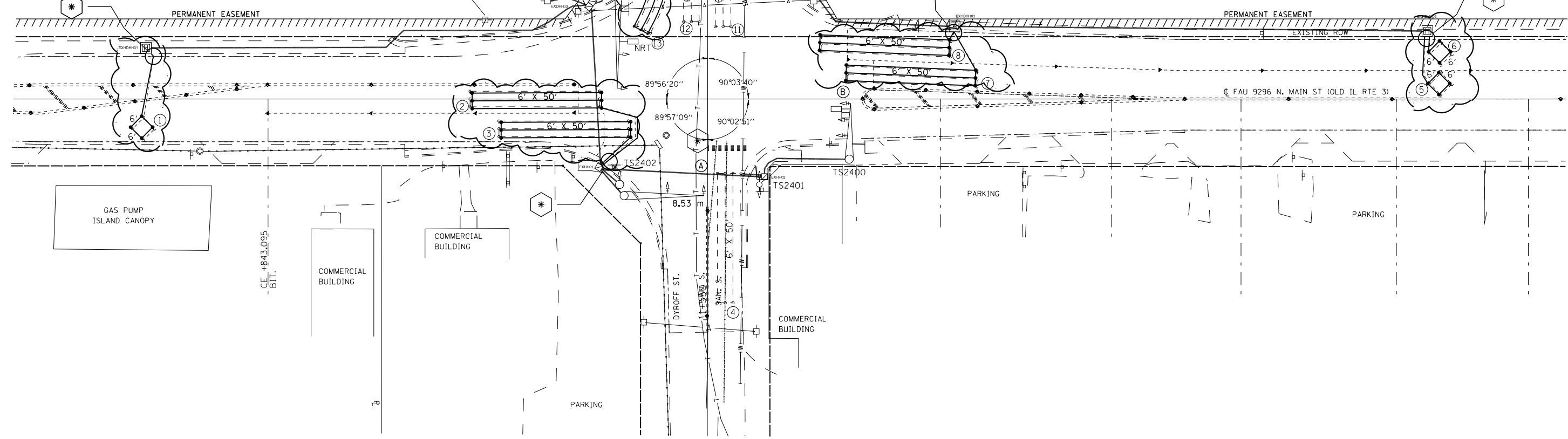
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE
* =SEE DETAIL A

FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL

EXISTING SEQUENCE OF OPERATION										
PHASE	1	2	3	4	5	6	7	8	OLA	OLB
MOVEMENT	NB LT	SB	ACTIVE FOR	ACTIVE FOR	NOT	NB	EB LT	WB	EB BEFORE TRACKS	EB MAIN ST.
CONCURRENT MOVEMENT PERMITTED	6	6	TIMING ONLY	TIMING ONLY	USED	1 OR 2	OLA OR OLB	OLB	3, 4, 7, 8 OR OLB	3, 4, 7, 8 OR OLA

TRACK CLEARANCE: OLB AND PHASE 7
PERMISSIVE PHASES DURING RR PRE-EMPTION: PHASES 2, 6, 7 AND OLB
"NO RIGHT TURN" SIGN SHALL BE ON DURING PRE-EMPTION
NOTE: "NO RIGHT TURN" SIGN SHOULD BE ON EVERYTIME Ø2 IS ON RED.
RAILROAD PRE-EMPTION SHALL HAVE PRIORITY OVER ANY OTHER PRE-EMPTION.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN ST.(OLD IL 3) & CARONDELET AVE./DYROFF ST.
DETECTOR LOOP REPLACEMENT PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	64-1,2,3-RS-3	ST. CLAIR	13	13
CONTRACT NO. 76N22				
ILLINOIS FED. AID PROJECT				