

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	1
		ILLINOIS	CONTRACT NO. 76P45	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

US 50 (WEST)  
2018 ADT = 29300 (ACTUAL)  
2021 ADT = 30400 (ESTIMATED)  
2041 ADT = 38500 (ESTIMATED)  
SU = 4.6% MU = 2.4%

SW RAMP  
2018 ADT = 3450 (ACTUAL)  
2021 ADT = 3600 (ESTIMATED)  
2041 ADT = 4500 (ESTIMATED)  
SU = 4.3% MU = 2.0%

US 50 (EAST)  
2018 ADT = 29300 (ACTUAL)  
2021 ADT = 30400 (ESTIMATED)  
2041 ADT = 38500 (ESTIMATED)  
SU = 4.6% MU = 2.3%

NE RAMP  
2018 ADT = 10500 (ACTUAL)  
2021 ADT = 10900 (ESTIMATED)  
2041 ADT = 13800 (ESTIMATED)  
SU = 1.9% MU = 1.4%

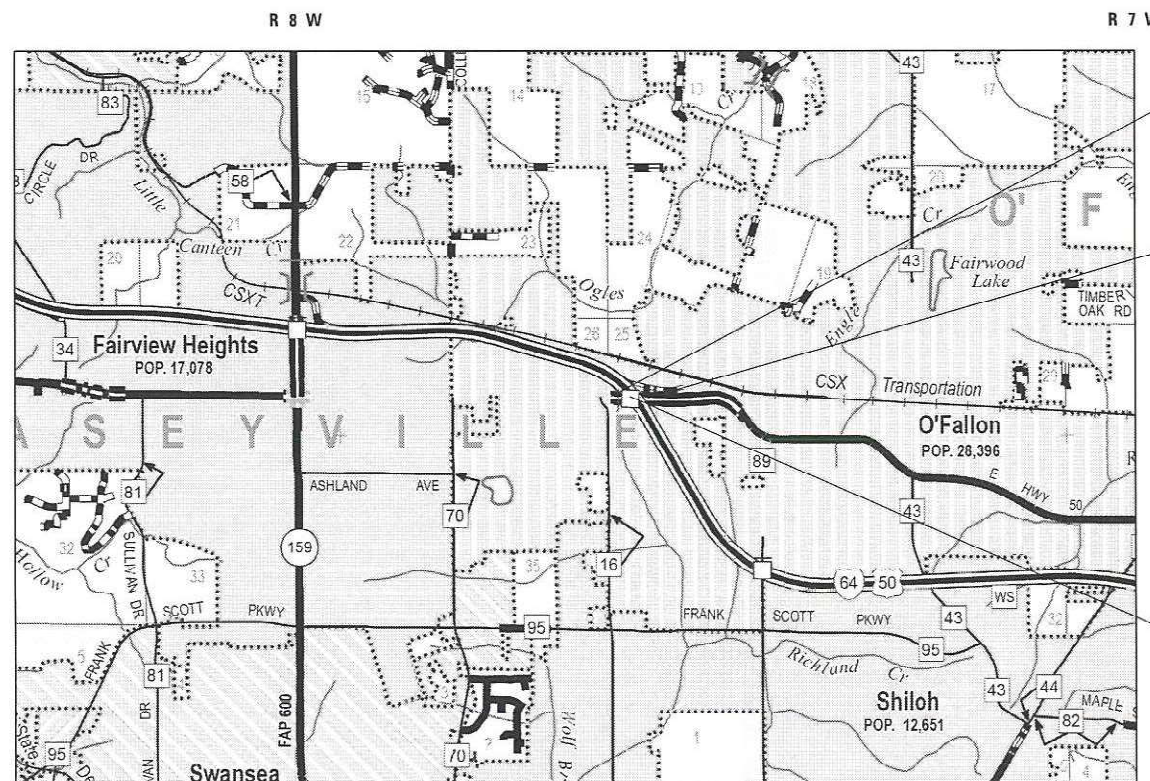
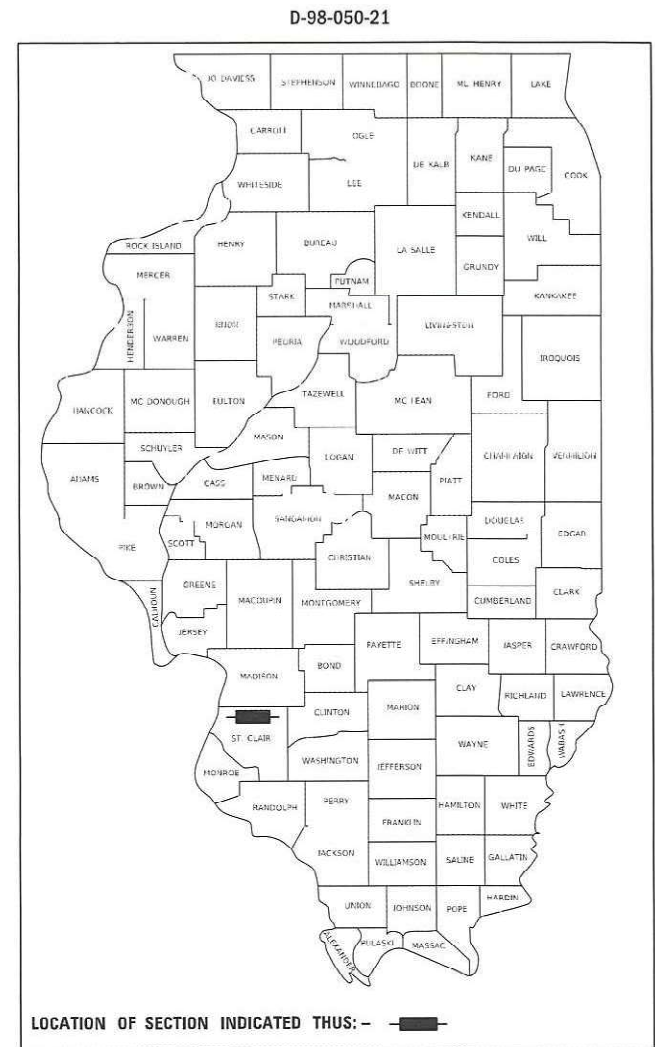
NW RAMP  
2018 ADT = 11800 (ACTUAL)  
2021 ADT = 12200 (ESTIMATED)  
2041 ADT = 15500 (ESTIMATED)  
SU = 1.9% MU = 2.3%

SE RAMP  
2018 ADT = 2950 (ACTUAL)  
2021 ADT = 3050 (ESTIMATED)  
2041 ADT = 3900 (ESTIMATED)  
SU = 3.4% MU = 1.7%

PROPOSED  
HIGHWAY PLANS

FAU ROUTE 9166 A (US 50)  
SECTION 32RS-4  
PROJECT STP-QRE4(162)  
RESURFACING – STANDARD OVERLAY  
ST. CLAIR COUNTY

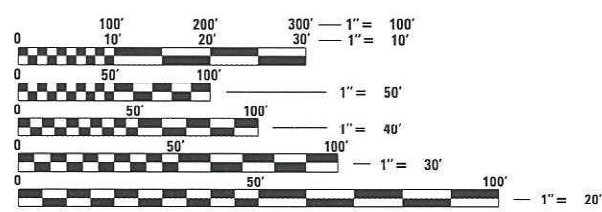
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BEGIN PROJECT  
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LONG: -89.94730

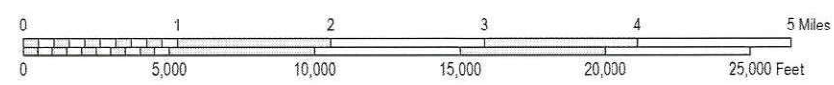
END PROJECT  
STA 68+36.00  
LAT: 38.59240  
LONG: -89.94095

PAVING BRIDGE OMISSION  
STA 57+04.04 TO  
STA 61+74.31



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



GROSS LENGTH = 1757.33 FT. = 0.33 MILE  
NET LENGTH = 1287.06 FT. = 0.24 MILE

PROJECT ENGINEER: BILLIE OWEN (618) 346-3209  
PROJECT MANAGER: PHIL FREIMUTH (618) 346-3194

CONTRACT NO. 76P45

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED *March 8, 2021*  
*K. Roberts* REGIONAL ENGINEER

May 7, 2021 *J. A. Etk*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021 *James J. ...*  
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, AND COMMITMENTS
3-4	SUMMARY OF QUANTITIES
5-13	TYPICAL SECTIONS
14-15	SCHEDULE OF QUANTITIES
16-20	PAVEMENT MARKING SHEETS
21-24	DETECTOR LOOP REPLACEMENT SHEETS
25	CURB PAINT PAVEMENT MARKING DETAIL

## HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-09	PAVEMENT JOINTS
442001-04	CLASS A PATCHES
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS $\geq$ 45 MPH
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/ EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS
782001-01	CURB REFLECTORS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

## COMMITMENTS

NONE

## GENERAL NOTES

- UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

AMEREN ILLINOIS (GAS AND ELECTRIC)  
 AT&T ILLINOIS (COMMUNICATIONS)  
 CASEYVILLE TOWNSHIP ADVANCED WASTEWATER TREATMENT SYSTEM (SANITARY SEWER)  
 CHARTER COMMUNICATIONS, INC. (CABLE TV)  
 CLEARWATER COMMUNICATIONS (COMMUNICATIONS)  
 FIDELITY COMMUNICATIONS ILL, INC. (COMMUNICATIONS)  
 VERIZON BUSINESS (COMMUNICATIONS)  
 CITY OF O'FALLON (WATER AND SANITARY SEWER)  
 WINDSTREAM KDL, INC. (COMMUNICATIONS)

- NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.
- THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATION OF EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- 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.
- 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.

- ONLY SHORT-TERM MARKING FROM THE FINAL SURFACE SHALL BE PAID FOR AS "SHORT TERM PAVEMENT MARKING REMOVAL."
- FOUR CHANGEABLE MESSAGE BOARDS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED TWO WEEKS PRIOR TO ANY LANE CLOSURE. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

MIXTURE USE	POLY SURFACE	BINDER	SHOULDERS (LOWER)	SHOULDERS (SURFACE)
AC/PG	SBS PG 76-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0 % @ NDES = 90	4.0 % @ NDES = 90	4.0 % @ NDES = 30	4.0 % @ NDES = 30
MIX COMPOSITION (GRADATION)	IL 9.5	IL 9.5 FG	IL 19.0L	IL 9.5L
FRICTION AGG	MIXTURE "E"	MIXTURE "C"		
QUALITY MGMT PROGRAM	QCP	QCP	QC/QA	QC/QA

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 MM THICKNESS).

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	2
			CONTRACT NO. 76P45	
		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	13061	13061	
40600990	TEMPORARY RAMP	SQ YD	660	660	
40602975	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90	TON	1212	1212	
40604174	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N90	TON	1454	1454	
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	20371	20371	
44200529	CLASS A PATCHES, TYPE II, 8 INCH	SQ YD	38	38	
44200533	CLASS A PATCHES, TYPE III, 8 INCH	SQ YD	112	112	
44200535	CLASS A PATCHES, TYPE IV, 8 INCH	SQ YD	200	200	
44213000	PATCHING REINFORCEMENT	SQ YD	350	350	
44213200	SAW CUTS	FOOT	1192	1192	
44213204	TIE BARS 3/4"	EACH	41	41	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	473	473	
67100100	MOBILIZATION	L SUM	1	1	
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED	20% STATE
				ROADWAY	
				0005	URBAN
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	
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	2412	2412	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	268	268	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	502	502	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10969	10969	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	860	860	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	598	598	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	262	262	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	502	502	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10969	10969	

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET 1 OF 2 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	3
CONTRACT NO. 76P45			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED	20% STATE
				ROADWAY	
				0005	URBAN
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	860	860	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	598	598	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	262	262	
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	47	47	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2495	2495	
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	29	29	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	163	163	
* 78100300	REPLACEMENT REFLECTOR	EACH	37	37	
* 78200020	CURB REFLECTORS	EACH	131	131	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	163	163
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	907	907
* 80300100	LOCATING UNDERGROUND CABLE	FOOT	70	70	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2318	2318	
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	5852	5852

\* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED	20% STATE
				ROADWAY	
				0005	URBAN
* X7800100	PAINT PAVEMENT MARKING - RAISED MEDIAN	SQ FT	184	184	
* X7800200	PAINT PAVEMENT MARKING CURB	FOOT	682	682	
Ø Z0076600	TRAINEES	HOUR	500	500	
	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	16660	16660
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
	Z0070100	SURVEY MONUMENT COVER ASSEMBLY	EACH	5	5

Ø 0042

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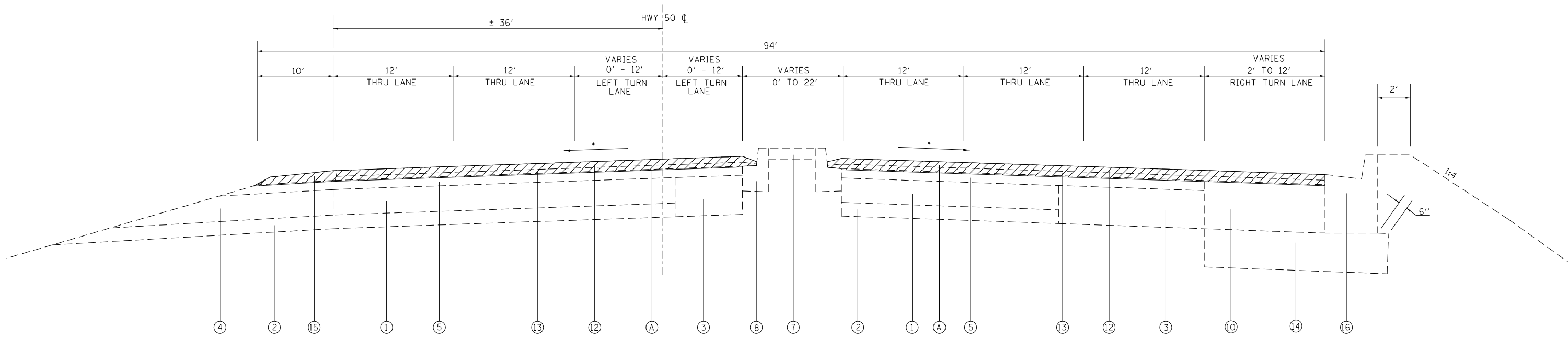
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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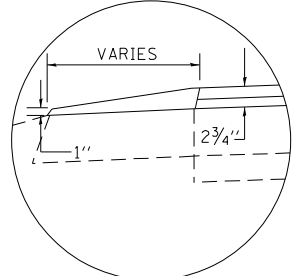
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9166 A	32RS-4	ST. CLAIR	25	4
CONTRACT NO. 76P45			ILLINOIS FED. AID PROJECT	



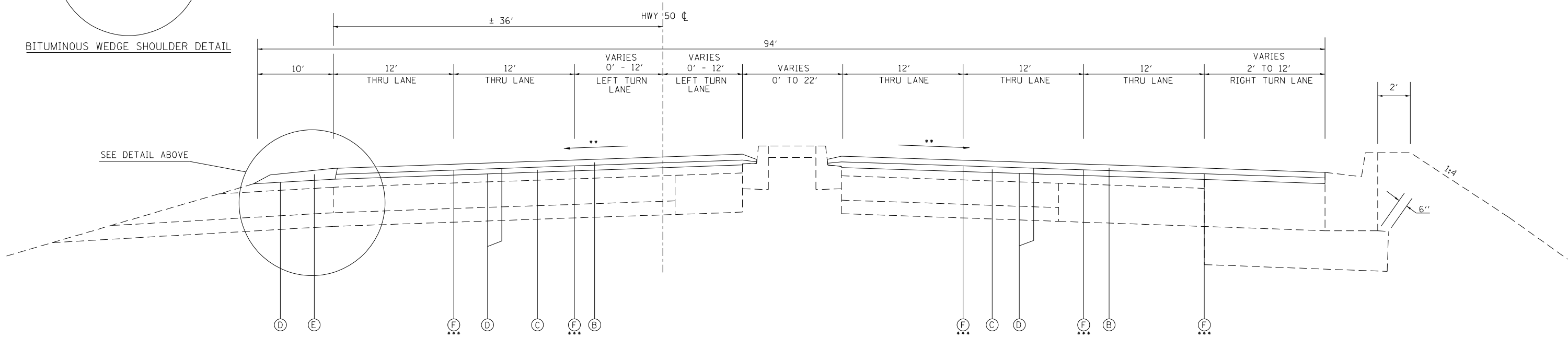
EXISTING TYPICAL SECTION

STA. 50+78.67 TO STA. 52+95.37  
 NO EXISTING MEDIAN FROM STA. 50+78.67 TO STA. 51+03.78

- \* EXISTING SLOPE
- \*\* MATCH EXISTING SLOPE
- \*\*\* LONGITUDINAL JOINT SEALANT APPLIED BETWEEN BINDER AND SURFACE LIFT



BITUMINOUS WEDGE SHOULDER DETAIL



PROPOSED TYPICAL SECTION

STA. 50+78.67 TO STA. 52+95.37

- ① EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
- ② EXISTING STABILIZED SUBBASE, 4"
- ③ EXISTING BITUMINOUS CONCRETE BINDER, 13"
- ④ EXISTING BITUMINOUS SHOULDER, 8 - 10"
- ⑤ EXISTING BITUMINOUS OVERLAY, 2 1/2"
- ⑥ EXISTING GRANULAR SUBBASE, VARIES
- ⑦ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑧ EXISTING CONCRETE C&G, B9.24

- ⑨ EXISTING CONCRETE MEDIAN, TYPE SM (SPECIAL)
- ⑩ EXISTING BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, 13 3/4"
- ⑪ EXISTING PORTLAND CEMENT CONCRETE BASE COURSE 8"
- ⑫ EXISTING BITUMINOUS CONCRETE SURFACE COURSE SUPERPAVE, 1 1/2"
- ⑬ EXISTING LEVELING BINDER SUPERPAVE, 1"
- ⑭ EXISTING LIME MODIFIED SOIL, 12"
- ⑮ EXISTING BITUMINOUS SHOULDER SUPERPAVE (TONS)
- ⑯ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B6.24

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 3/4"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
- Ⓒ PROPOSED HOT-MIX ASPHALT BINDER COURSE 1 1/4"
- Ⓓ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- Ⓔ PROPOSED HOT-MIX ASPHALT SHOULDER 2 3/4"
- Ⓕ PROPOSED LONGITUDINAL JOINT SEALANT

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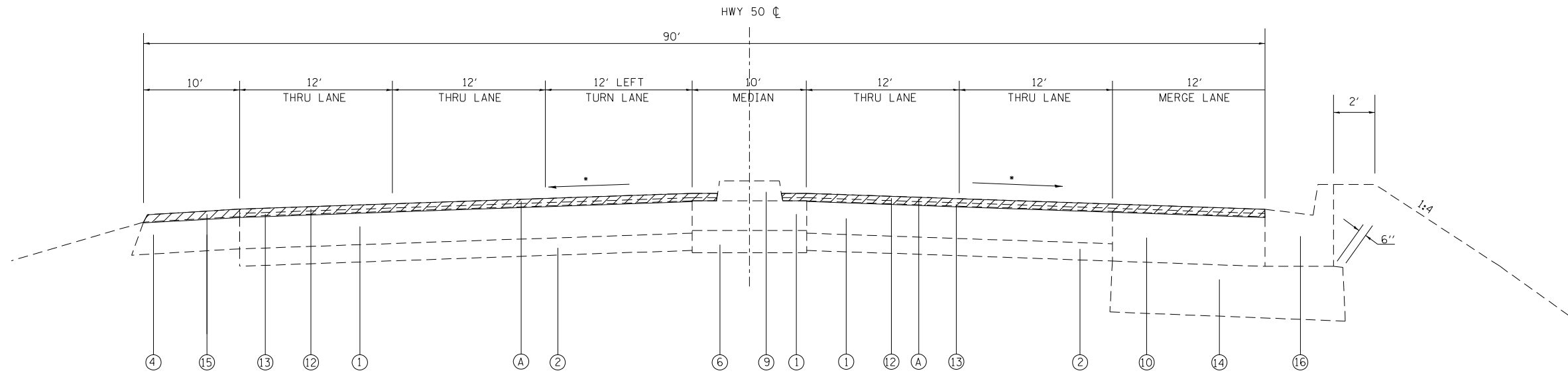
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
 HWY 50

SCALE: \_\_\_\_\_ SHEET 1 OF 9 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

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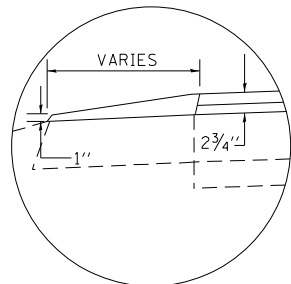
NOTE: SEE SPECIAL PROVISION "REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT" FOR ADDITIONAL MILLING INFORMATION



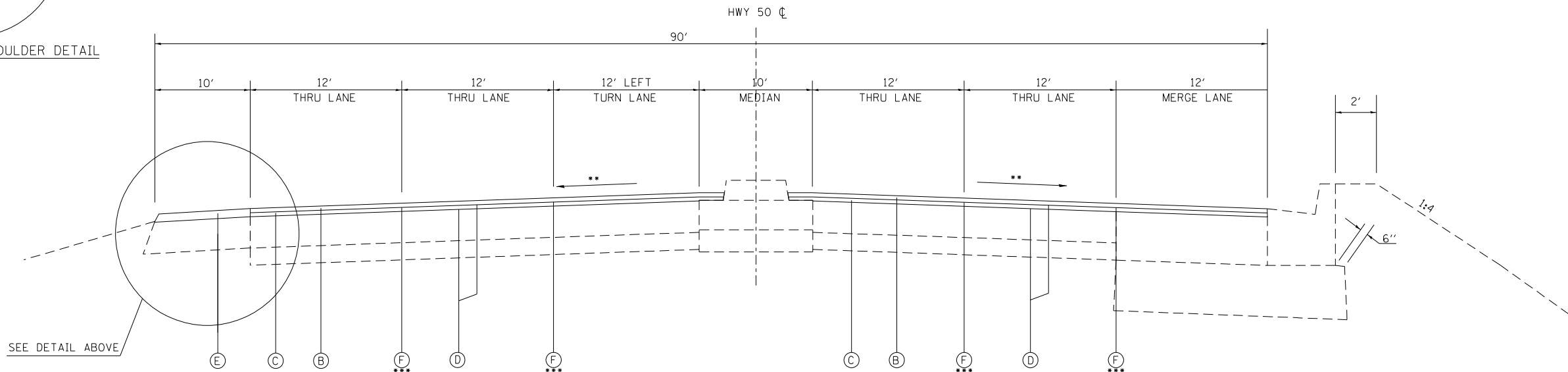
EXISTING TYPICAL SECTION

STA. 52+95.37 TO STA. 57+04.14

- EXISTING SLOPE
- \*\* MATCH EXISTING SLOPE
- \*\*\* LONGITUDINAL JOINT SEALANT APPLIED BETWEEN BINDER AND SURFACE LIFT



BITUMINOUS WEDGE SHOULDER DETAIL



PROPOSED TYPICAL SECTION

STA. 52+95.37 TO STA. 57+04.14

- ① EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
- ② EXISTING STABILIZED SUBBASE, 4"
- ③ EXISTING BITUMINOUS CONCRETE BINDER, 13"
- ④ EXISTING BITUMINOUS SHOULDER, 8 - 10"
- ⑤ EXISTING BITUMINOUS OVERLAY, 2 1/2"
- ⑥ EXISTING GRANULAR SUBBASE, VARIES
- ⑦ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑧ EXISTING CONCRETE C&G, B9.24

- ⑨ EXISTING CONCRETE MEDIAN, TYPE SM (SPECIAL)
- ⑩ EXISTING BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, 13 3/4"
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- ⑭ EXISTING LIME MODIFIED SOIL, 12"
- ⑮ EXISTING BITUMINOUS SHOULDER SUPERPAVE (TONS)
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- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 3/4"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
- Ⓒ PROPOSED HOT-MIX ASPHALT BINDER COURSE 1 1/4"
- Ⓓ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- Ⓔ PROPOSED HOT-MIX ASPHALT SHOULDER 2 3/4"
- Ⓕ PROPOSED LONGITUDINAL JOINT SEALANT



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
HWY 50

SCALE: \_\_\_\_\_ SHEET 2 OF 9 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

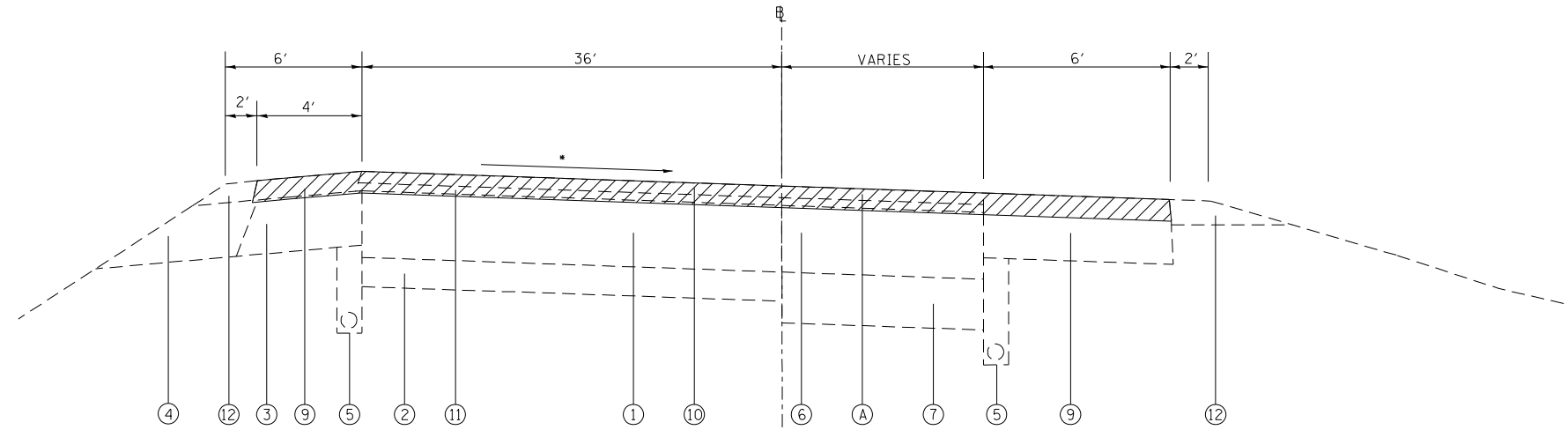
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CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				







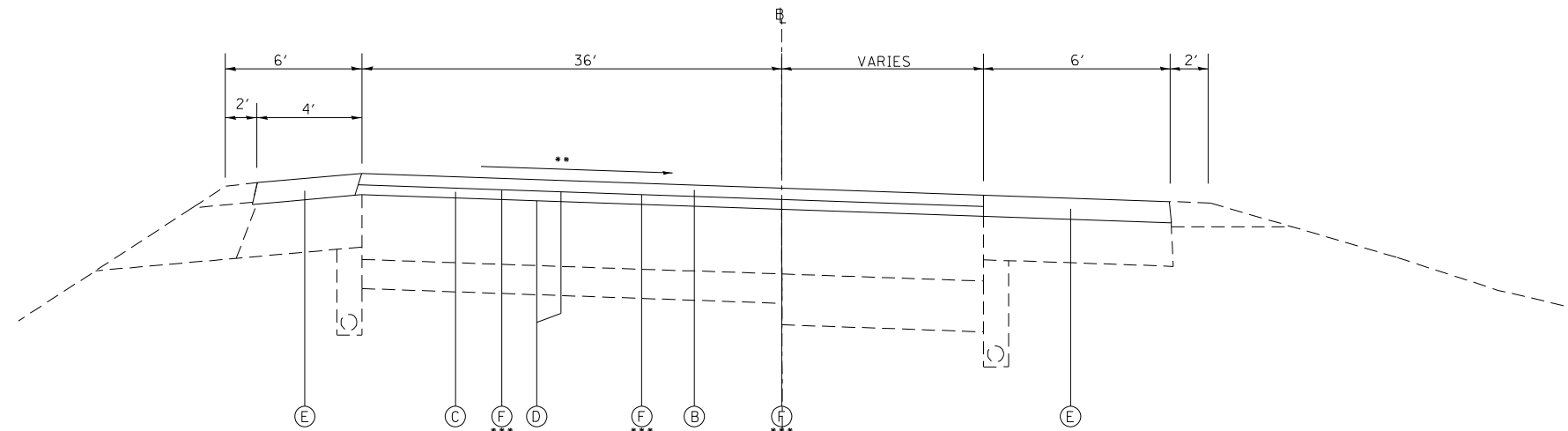
NOTE: SEE SPECIAL PROVISION "REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT" FOR ADDITIONAL MILLING INFORMATION



EXISTING TYPICAL SECTION

STA. 13+17.73 TO STA. 15+51.89  
EXISTING CORRUGATED MEDIAN FROM STA 14+82.60 TO STA 15+51.93

- \* EXISTING SLOPE
- \*\* MATCH EXISTING SLOPE
- \*\*\* LONGITUDINAL JOINT SEALANT APPLIED BETWEEN BINDER AND SURFACE LIFT



PROPOSED TYPICAL SECTION

STA. 13+17.73 TO STA. 15+51.89

- ① EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
- ② EXISTING STABILIZED SUBBASE, 4"
- ③ EXISTING BITUMINOUS SHOULDER, 8"
- ④ EXISTING AGGREGATE SHOULDER
- ⑤ EXISTING PIPE UNDERDRAINS
- ⑥ EXISTING BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, 13 3/4"
- ⑦ EXISTING LIME MODIFIED SOIL 12"
- ⑧ EXISTING BITUMINOUS SHOULDER SUPERPAVE 8"

- ⑨ EXISTING BITUMINOUS SHOULDER SUPERPAVE (TONS)
- ⑩ EXISTING BITUMINOUS SURFACE COURSE, SUPERPAVE 1 1/2"
- ⑪ EXISTING BITUMINOUS LEVEL BINDER, SUPERPAVE 1"
- ⑫ EXISTING AGGREGATE SHOULDERS, TYPE B
- ⑬ EXISTING CONC. CURB & GUTTER, M6.12
- ⑭ EXISTING CONC. CURB & GUTTER, M6.06
- ⑮ EXISTING CONC. CURB & GUTTER, B6.24
- ⑯ EXISTING CONCRETE SURFACE, 4"

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 3/4"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
- Ⓒ PROPOSED HOT-MIX ASPHALT BINDER COURSE 1 1/4"
- Ⓓ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- Ⓔ PROPOSED HOT-MIX ASPHALT SHOULDER 2 3/4"
- Ⓕ PROPOSED LONGITUDINAL JOINT SEALANT



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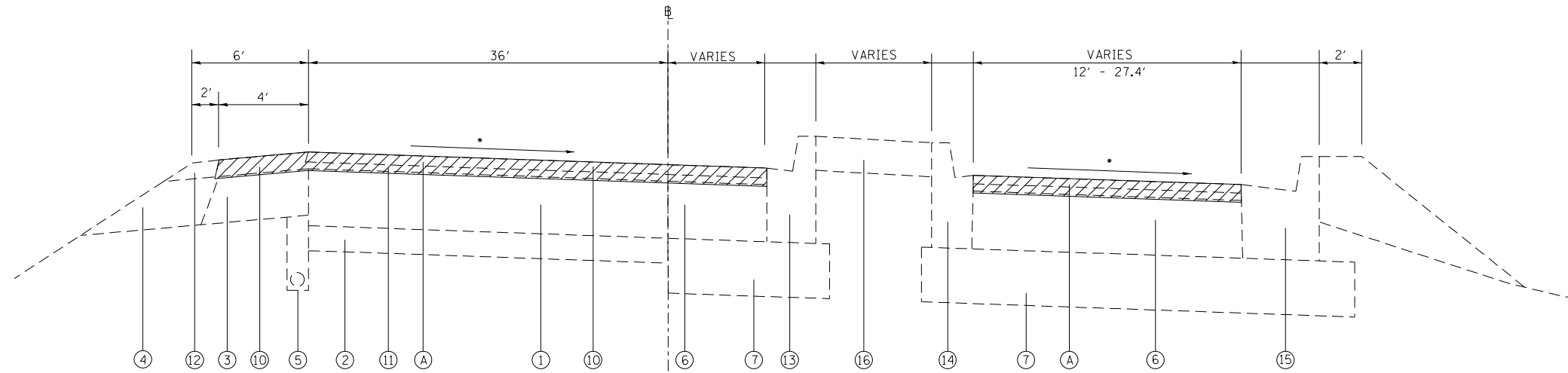
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
NW RAMP**

SCALE: \_\_\_\_\_ SHEET 5 OF 9 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	9
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				

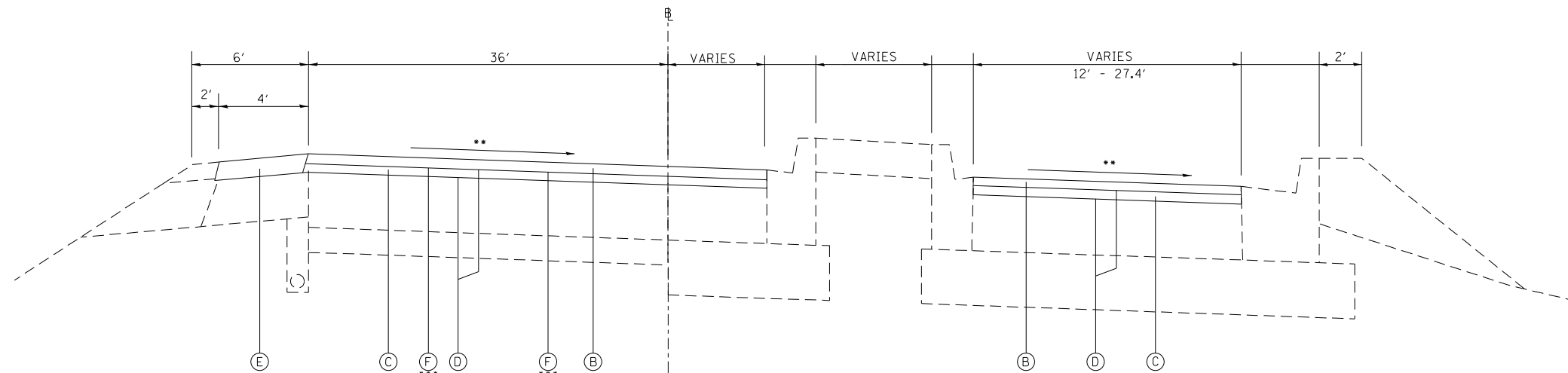
NOTE: SEE SPECIAL PROVISION "REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT" FOR ADDITIONAL MILLING INFORMATION



EXISTING TYPICAL SECTION

STA. 15+51.89 TO STA. 17+17.73

- EXISTING SLOPE
- MATCH EXISTING SLOPE
- LONGITUDINAL JOINT SEALANT APPLIED BETWEEN BINDER AND SURFACE LIFT



PROPOSED TYPICAL SECTION

STA. 15+51.89 TO STA. 17+17.73

- ① EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
- ② EXISTING STABILIZED SUBBASE, 4"
- ③ EXISTING BITUMINOUS SHOULDER, 8"
- ④ EXISTING AGGREGATE SHOULDER
- ⑤ EXISTING PIPE UNDERDRAINS
- ⑥ EXISTING BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, 13 3/4"
- ⑦ EXISTING LIME MODIFIED SOIL 12"
- ⑧ EXISTING BITUMINOUS SHOULDER SUPERPAVE 8"

- ⑨ EXISTING BITUMINOUS SHOULDER SUPERPAVE (TONS)
- ⑩ EXISTING BITUMINOUS SURFACE COURSE, SUPERPAVE 1 1/2"
- ⑪ EXISTING BITUMINOUS LEVEL BINDER, SUPERPAVE 1"
- ⑫ EXISTING AGGREGATE SHOULDERS, TYPE B
- ⑬ EXISTING CONC. CURB & GUTTER, M6.12
- ⑭ EXISTING CONC. CURB & GUTTER, M6.06
- ⑮ EXISTING CONC. CURB & GUTTER, B6.24
- ⑯ EXISTING CONCRETE SURFACE, 4"

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 3/4"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
- Ⓒ PROPOSED HOT-MIX ASPHALT BINDER COURSE 1 1/4"
- Ⓓ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- Ⓔ PROPOSED HOT-MIX ASPHALT SHOULDER 2 3/4"
- Ⓕ PROPOSED LONGITUDINAL JOINT SEALANT



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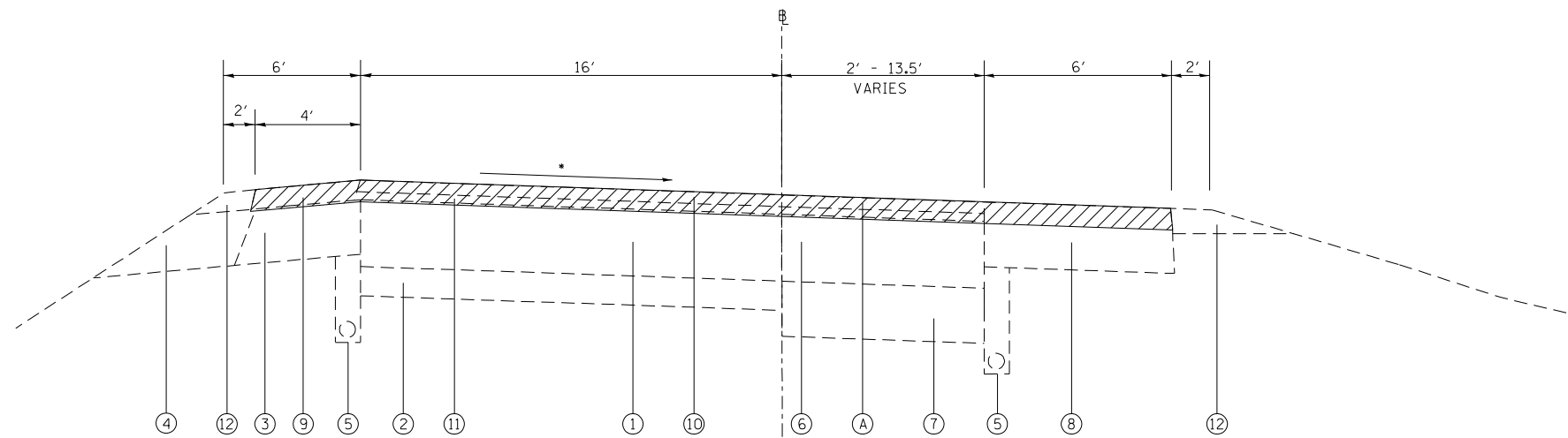
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
NW RAMP

SCALE: \_\_\_\_\_ SHEET 6 OF 9 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	10
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				

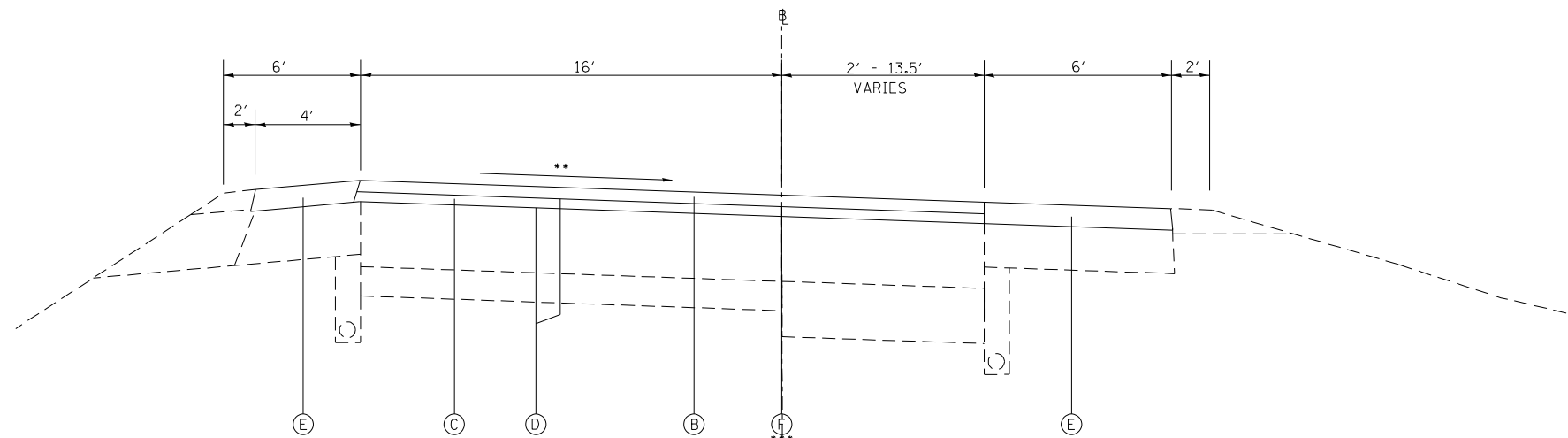
NOTE: SEE SPECIAL PROVISION "REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT" FOR ADDITIONAL MILLING INFORMATION



EXISTING TYPICAL SECTION

STA. 0+56.28 TO STA. 4+56.28  
 EXISTING COMBINATION CONCRETE CURB & GUTTER ON RT (STA. 0+56.28 TO STA. 1+67.19)  
 EXISTING COMBINATION CONCRETE CURB & GUTTER ON LT (STA. 0+56.28 TO STA. 1+13.65)

- EXISTING SLOPE
- \*\* MATCH EXISTING SLOPE
- \*\*\* LONGITUDINAL JOINT SEALANT APPLIED BETWEEN BINDER AND SURFACE LIFT



PROPOSED TYPICAL SECTION

STA. 0+56.28 TO STA. 4+56.28

- ① EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
- ② EXISTING STABILIZED SUBBASE, 4"
- ③ EXISTING BITUMINOUS SHOULDER, 8"
- ④ EXISTING AGGREGATE SHOULDER
- ⑤ EXISTING PIPE UNDERDRAINS
- ⑥ EXISTING BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, 13 3/4"
- ⑦ EXISTING LIME MODIFIED SOIL 12"
- ⑧ EXISTING BITUMINOUS SHOULDER SUPERPAVE 8"

- ⑨ EXISTING BITUMINOUS SHOULDER SUPERPAVE (TONS)
- ⑩ EXISTING BITUMINOUS SURFACE COURSE, SUPERPAVE 1 1/2"
- ⑪ EXISTING BITUMINOUS LEVEL BINDER, SUPERPAVE 1"
- ⑫ EXISTING AGGREGATE SHOULDERS, TYPE B
- ⑬ EXISTING CONC. CURB & GUTTER, M6.12
- ⑭ EXISTING CONC. CURB & GUTTER, M6.06
- ⑮ EXISTING CONC. CURB & GUTTER, B6.24
- ⑯ EXISTING CONCRETE SURFACE, 4"

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 3/4"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
- Ⓒ PROPOSED HOT-MIX ASPHALT BINDER COURSE 1 1/4"
- Ⓓ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- Ⓔ PROPOSED HOT-MIX ASPHALT SHOULDER 2 3/4"
- Ⓕ PROPOSED LONGITUDINAL JOINT SEALANT



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 DATE: 3/5/2021

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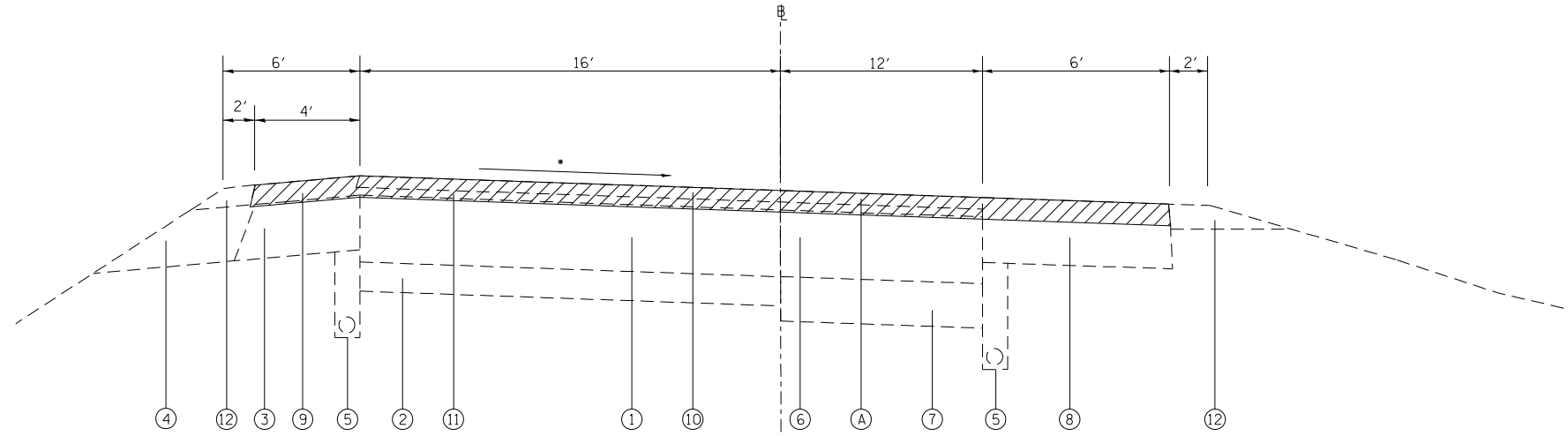
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
 SW RAMP

SCALE: \_\_\_\_\_ SHEET 7 OF 9 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	11
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				

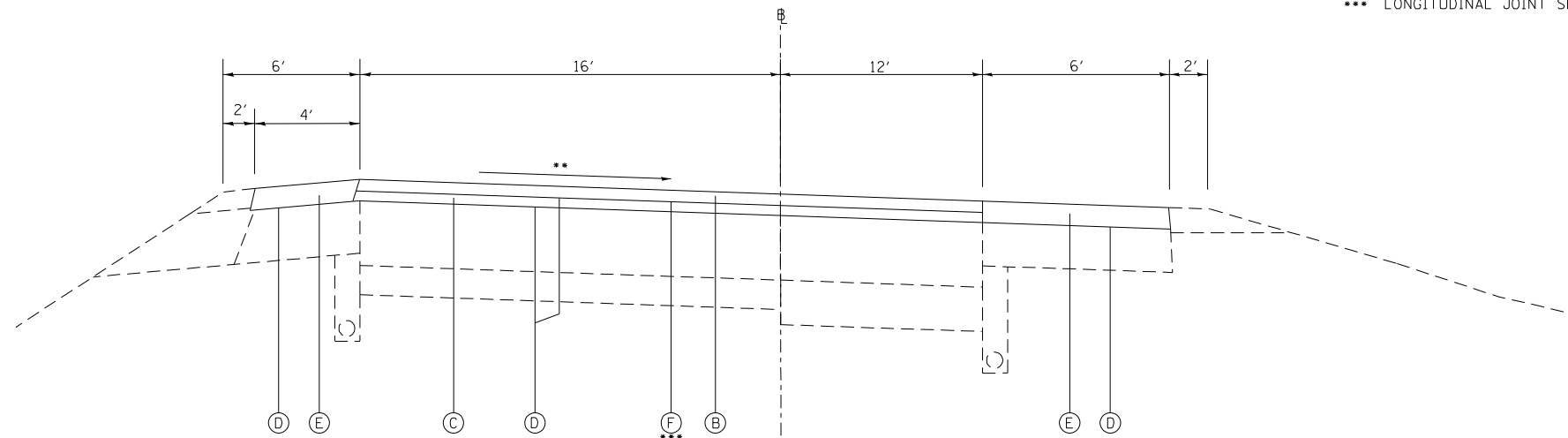
NOTE: SEE SPECIAL PROVISION "REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT" FOR ADDITIONAL MILLING INFORMATION



EXISTING TYPICAL SECTION

STA. 0+40 TO STA. 4+40

- \* EXISTING SLOPE
- \*\* MATCH EXISTING SLOPE
- \*\*\* LONGITUDINAL JOINT SEALANT APPLIED BETWEEN BINDER AND SURFACE LIFT



PROPOSED TYPICAL SECTION

STA. 0+40 TO STA. 4+40

- ① EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
- ② EXISTING STABILIZED SUBBASE, 4"
- ③ EXISTING BITUMINOUS SHOULDER, 8"
- ④ EXISTING AGGREGATE SHOULDER
- ⑤ EXISTING PIPE UNDERDRAINS
- ⑥ EXISTING BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, 13 3/4"
- ⑦ EXISTING LIME MODIFIED SOIL 12"
- ⑧ EXISTING BITUMINOUS SHOULDER SUPERPAVE 8"

- ⑨ EXISTING BITUMINOUS SHOULDER SUPERPAVE (TONS)
- ⑩ EXISTING BITUMINOUS SURFACE COURSE, SUPERPAVE 1 1/2"
- ⑪ EXISTING BITUMINOUS LEVEL BINDER, SUPERPAVE 1"
- ⑫ EXISTING AGGREGATE SHOULDERS, TYPE B
- ⑬ EXISTING CONC. CURB & GUTTER, M6.12
- ⑭ EXISTING CONC. CURB & GUTTER, M6.06
- ⑮ EXISTING CONC. CURB & GUTTER, B6.24
- ⑯ EXISTING CONCRETE SURFACE, 4"

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 3/4"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
- Ⓒ PROPOSED HOT-MIX ASPHALT BINDER COURSE 1 1/4"
- Ⓓ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- Ⓔ PROPOSED HOT-MIX ASPHALT SHOULDER 2 3/4"
- Ⓕ PROPOSED LONGITUDINAL JOINT SEALANT



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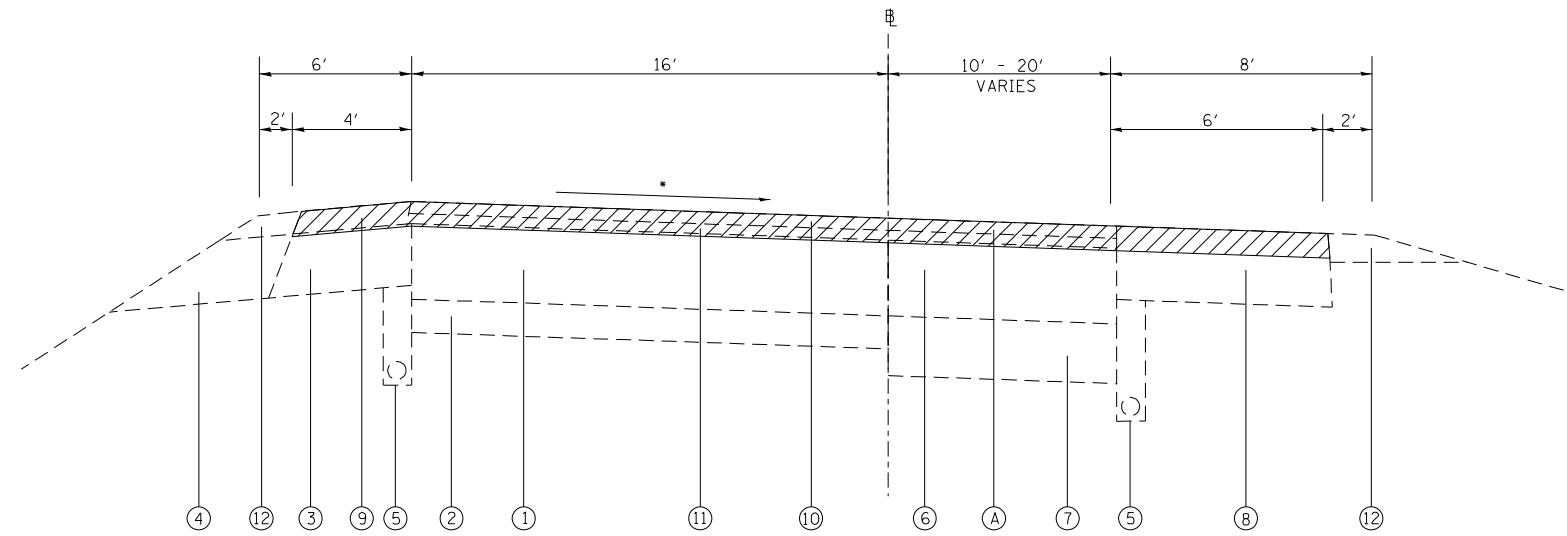
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
NE RAMP**

SCALE: \_\_\_\_\_ SHEET 8 OF 9 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	12
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				

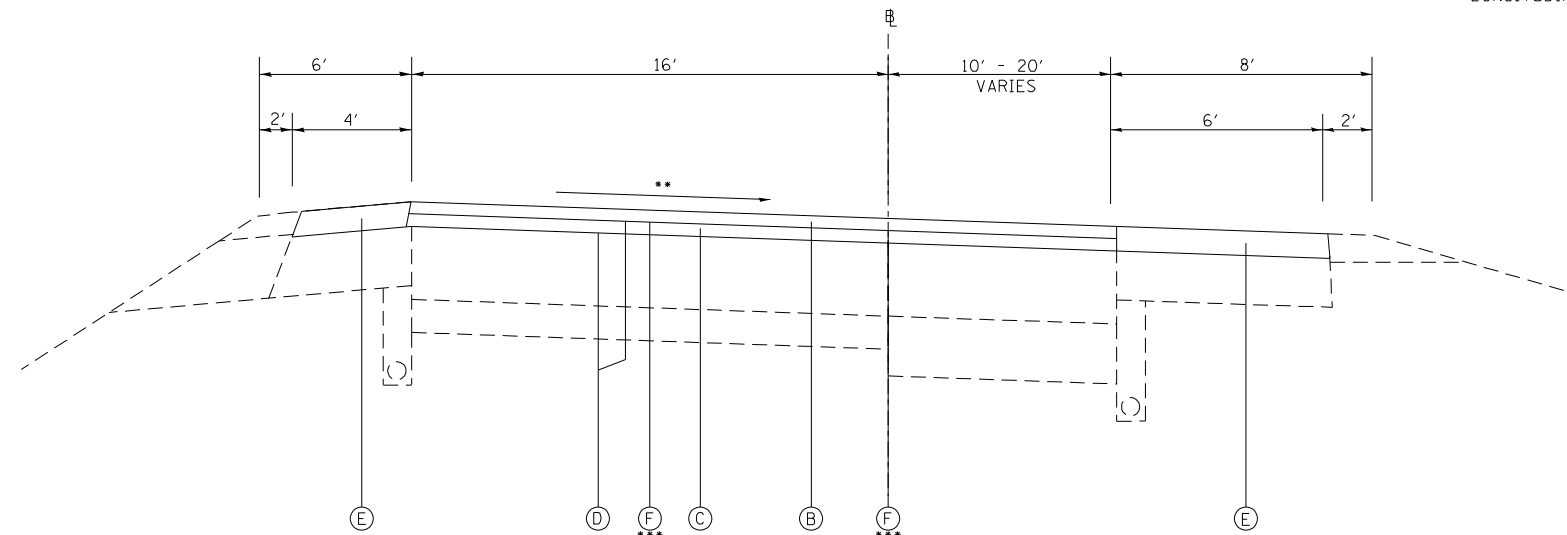
NOTE: SEE SPECIAL PROVISION "REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT" FOR ADDITIONAL MILLING INFORMATION



EXISTING TYPICAL SECTION

STA. 5+55 TO STA. 9+55  
EXISTING CONCRETE CURB AND GUTTER (B6.24) ON RT FROM STA 8+42 TO 9+55

- EXISTING SLOPE
- \*\* MATCH EXISTING SLOPE
- \*\*\* LONGITUDINAL JOINT SEALANT APPLIED BETWEEN BINDER AND SURFACE LIFT



PROPOSED TYPICAL SECTION

STA. 5+55 TO STA. 9+55

- ① EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
- ② EXISTING STABILIZED SUBBASE, 4"
- ③ EXISTING BITUMINOUS SHOULDER, 8"
- ④ EXISTING AGGREGATE SHOULDER
- ⑤ EXISTING PIPE UNDERDRAINS
- ⑥ EXISTING BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, 13 3/4"
- ⑦ EXISTING LIME MODIFIED SOIL 12"
- ⑧ EXISTING BITUMINOUS SHOULDER SUPERPAVE 8"

- ⑨ EXISTING BITUMINOUS SHOULDER SUPERPAVE (TONS)
- ⑩ EXISTING BITUMINOUS SURFACE COURSE, SUPERPAVE 1 1/2"
- ⑪ EXISTING BITUMINOUS LEVEL BINDER, SUPERPAVE 1"
- ⑫ EXISTING AGGREGATE SHOULDERS, TYPE B
- ⑬ EXISTING CONC. CURB & GUTTER, M6.12
- ⑭ EXISTING CONC. CURB & GUTTER, M6.06
- ⑮ EXISTING CONC. CURB & GUTTER, B6.24
- ⑯ EXISTING CONCRETE SURFACE, 4"

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 3/4"
- Ⓑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
- Ⓒ PROPOSED HOT-MIX ASPHALT BINDER COURSE 1 1/4"
- Ⓓ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- Ⓔ PROPOSED HOT-MIX ASPHALT SHOULDER 2 3/4"
- Ⓕ PROPOSED LONGITUDINAL JOINT SEALANT



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
SE RAMP

SCALE: \_\_\_\_\_ SHEET 9 OF 9 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	13
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				





## PAVEMENT MARKING SCHEDULE

LOCATION			THERMOPLASTIC PAVEMENT MARKING / TEMPORARY PAVEMENT MARKING														SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)	TEMPORARY PAVEMENT MARKING REMOVAL (SQ FT)	
			4 INCH						8 INCH	12 INCH			24 INCH	LETTERS AND SYMBOLS				WHITE (FOOT)			YELLOW (FOOT)
			2' LINE 6' SPACE WHITE SKIP-DASH (FOOT)	WHITE EDGE LINE (FOOT)	WHITE LANE LINE (FOOT)	10' LINE 30' SPACE WHITE SKIP-DASH (FOOT)	DOUBLE YELLOW LINE (FOOT)	YELLOW EDGE LINE (FOOT)	WHITE EDGE LINE (FOOT)	YELLOW DIAGONALS (FOOT)	WHITE DIAGONALS (FOOT)	WHITE CHEVRONS (FOOT)	STOP BAR (FOOT)	LEFT TURN ARROW (SQ FT)	RIGHT TURN ARROW (SQ FT)	YIELD TRIANGLES (SQ FT)					
STA	TO	STA	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(SQ FT)	(SQ FT)	(SQ FT)	(FOOT)	(FOOT)	(SQ FT)	(SQ FT)		
US 50																					
50+78.67	TO	56+50.00	52.0	834.9	428.1	340.0	101.7	939.2		24.2				72.0	31.2	31.2		588	12	66.7	1129.2
56+50.00	TO	57+04.04		186.2	91.4	30.0		108.1							15.6			84		9.3	140.8
57+04.04	TO	61+74.31	BRIDGE OMISSION																		
61+74.31	TO	62+50.00		151.4	75.7	50.0		151.4							31.2			120	24	16.0	174.0
62+50.00	TO	68+36.00	54.0	809.8	468.9	320.0		508.3		419.9				70.0	62.4	15.6		636	84	80.0	1078.3
NW RAMP																					
13+17.73	TO	15+50.00		486.2	233.2	80.0		238.4							62.4	62.4		252		28.0	470.7
15+50.00	TO	17+54.72	4.0	502.3	110.1	40.0		178.4	277.4		235.8	16.2		42.0	31.2	31.2	18.0	120		13.3	879.7
SW RAMP																					
00+00.00	TO	02+00.00		179.8	43.9			140.9	139.2		34.3	56.6		18.0							341.2
02+00.00	TO	04+56.28		256.3				256.3										36		4.0	170.9
NE RAMP																					
00+00.00	TO	02+00.00	26.0	198.3	35.4	17.2		145.3	211.7		46.7	86.1		18.0		15.6		60		6.7	466.3
02+00.00	TO	04+40.00		240.0		58.2		240.0										108		12.0	179.4
SE RAMP																					
05+55.00	TO	08+00.00	50	245.3	85.7	50.0		245.0										204		22.7	225.3
08+00.00	TO	09+88.30	4.0	276.1	221.1				230.9		87.9	9.6		42.0	62.4	31.2		84		9.3	596.1
SUB TOTAL			190.0	4366.6	1753.5	985.4	761.4	2911.4	859.2	24.2	404.7	168.6		262.0	296.4	187.2	18.0	2292.0	120.0	268.0	5851.9
TOTAL					10969				860		598			262		502		2412		268	5852

## PAVEMENT MARKING SCHEDULE (CONT.)

LOCATION			PAINT PAVEMENT MARKING		MODIFIED URETHANE PAVEMENT MARKING								PAVEMENT MARKING REMOVAL - GRINDING (SQ FT)
			RAISED MEDIAN (SQ FT)	CURB (FOOT)	4 INCH					12 INCH	LETTERS AND SYMBOLS		
					WHITE EDGE LINE (FOOT)	WHITE LANE LINE (FOOT)	10' LINE 30' SPACE WHITE SKIP-DASH (FOOT)	DOUBLE YELLOW LINE (FOOT)	YELLOW EDGE LINE (FOOT)	YELLOW DIAGONALS (FOOT)	LEFT TURN ARROW (SQ FT)		
STA	TO	STA	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(SQ FT)	(SQ FT)	
US 50													
50+78.67	TO	56+50.00	67.7	192.0									
56+50.00	TO	57+04.04											
57+04.04	TO	61+74.31	22.9	96.0	862.8	227.1	260.0	585.9	558.4	28.7	46.8	906.8	
61+74.31	TO	62+50.00											
62+50.00	TO	68+36.00	25.7	96.0									
NW RAMP													
13+17.73	TO	15+50.00											
15+50.00	TO	17+54.72	48.6	247.4									
SW RAMP													
00+00.00	TO	02+00.00											
02+00.00	TO	04+56.28											
NE RAMP													
00+00.00	TO	02+00.00											
02+00.00	TO	04+40.00											
SE RAMP													
05+55.00	TO	08+00.00											
08+00.00	TO	09+88.30	19.1	49.7									
SUB TOTAL			184.0	631.2	862.8	227.1	260.0	585.9	558.4	28.7	46.8	906.8	
TOTAL			184	582			2495			29	47	907	

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PLOT SCALE = 100,0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 3/5/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

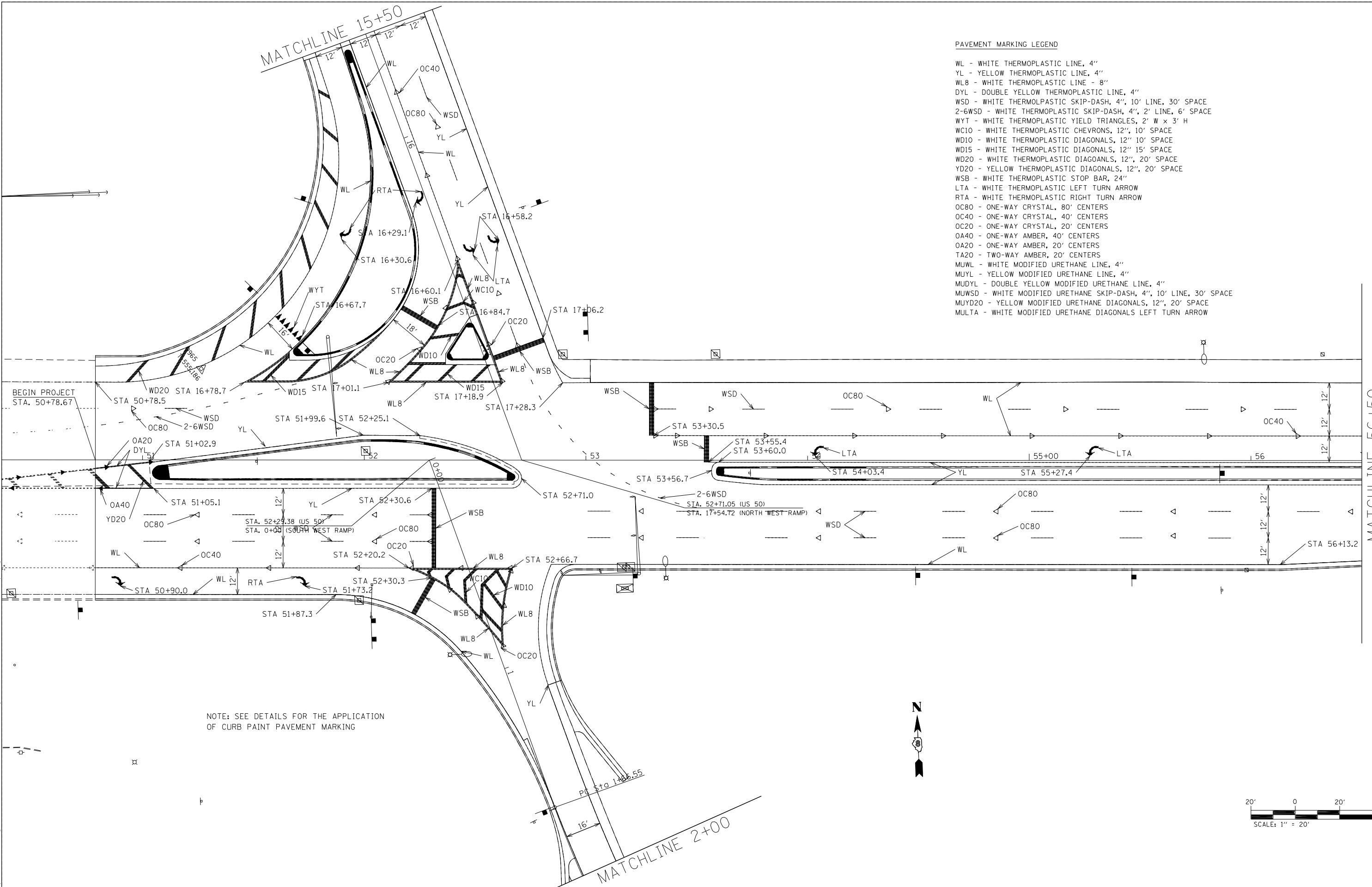
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	15
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				

MATCHLINE 15+50

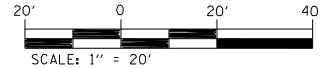
PAVEMENT MARKING LEGEND

- WL - WHITE THERMOPLASTIC LINE, 4"
- YL - YELLOW THERMOPLASTIC LINE, 4"
- WL8 - WHITE THERMOPLASTIC LINE - 8"
- DYL - DOUBLE YELLOW THERMOPLASTIC LINE, 4"
- WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 10' LINE, 30' SPACE
- 2-6WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 2' LINE, 6' SPACE
- WYT - WHITE THERMOPLASTIC YIELD TRIANGLES, 2' W x 3' H
- WC10 - WHITE THERMOPLASTIC CHEVRONS, 12", 10' SPACE
- WD10 - WHITE THERMOPLASTIC DIAGONALS, 12" 10' SPACE
- WD15 - WHITE THERMOPLASTIC DIAGONALS, 12" 15' SPACE
- WD20 - WHITE THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- YD20 - YELLOW THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- WSB - WHITE THERMOPLASTIC STOP BAR, 24"
- LTA - WHITE THERMOPLASTIC LEFT TURN ARROW
- RTA - WHITE THERMOPLASTIC RIGHT TURN ARROW
- OC80 - ONE-WAY CRYSTAL, 80' CENTERS
- OC40 - ONE-WAY CRYSTAL, 40' CENTERS
- OC20 - ONE-WAY CRYSTAL, 20' CENTERS
- OA40 - ONE-WAY AMBER, 40' CENTERS
- OA20 - ONE-WAY AMBER, 20' CENTERS
- TA20 - TWO-WAY AMBER, 20' CENTERS
- MUWL - WHITE MODIFIED URETHANE LINE, 4"
- MUYL - YELLOW MODIFIED URETHANE LINE, 4"
- MUDYL - DOUBLE YELLOW MODIFIED URETHANE LINE, 4"
- MUWSD - WHITE MODIFIED URETHANE SKIP-DASH, 4", 10' LINE, 30' SPACE
- MUYD20 - YELLOW MODIFIED URETHANE DIAGONALS, 12", 20' SPACE
- MULTA - WHITE MODIFIED URETHANE DIAGONALS LEFT TURN ARROW



BEGIN PROJECT  
STA. 50+78.67

NOTE: SEE DETAILS FOR THE APPLICATION  
OF CURB PAINT PAVEMENT MARKING



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DRAWN - _____	REVISOR - _____	REVISOR - _____
PLOT SCALE = 40,0000 */ in.	CHECKED - _____	REVISOR - _____
PLOT DATE = 3/5/2021	DATE - _____	REVISOR - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

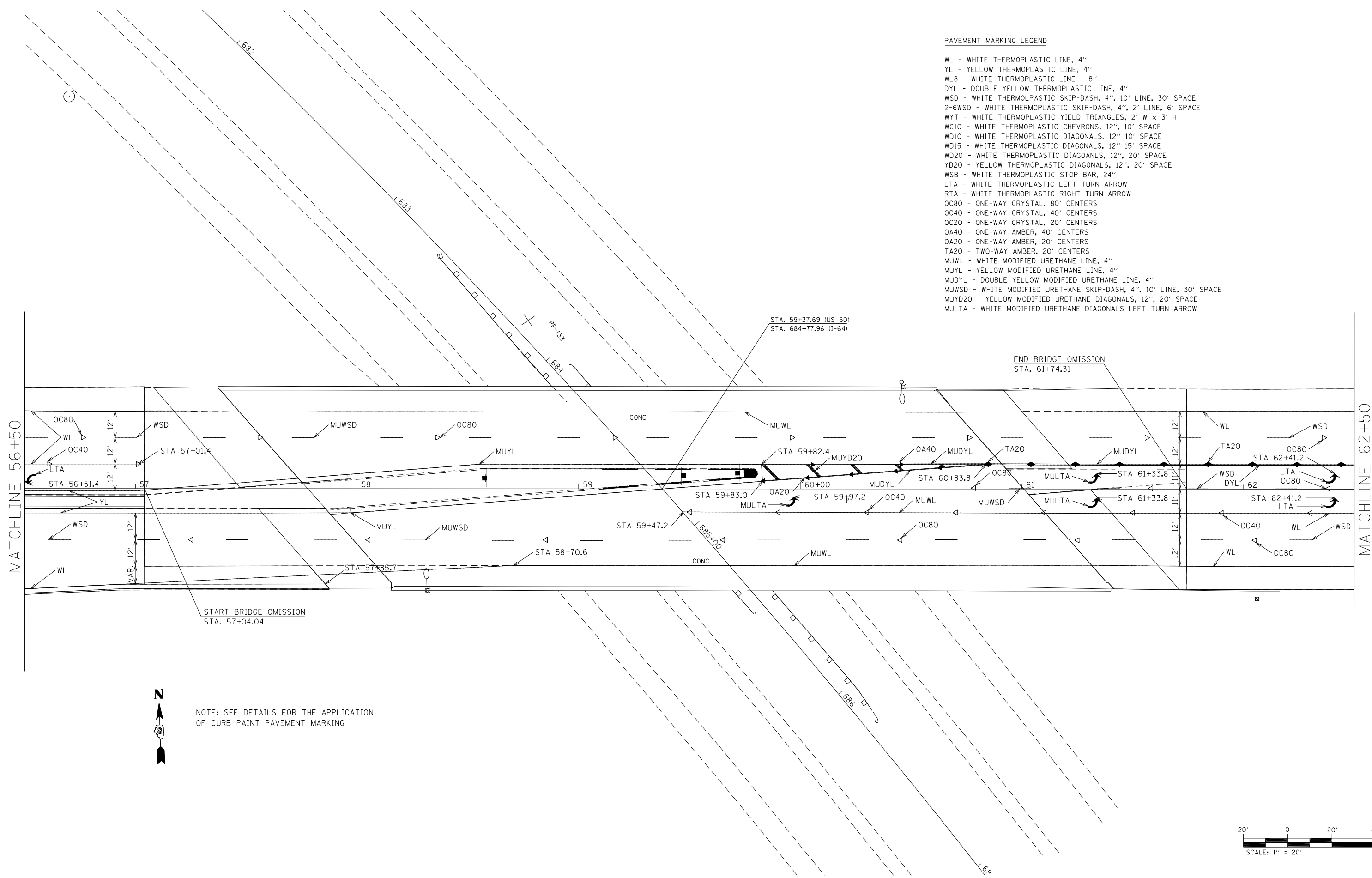
<b>PAVEMENT MARKING DETAILS</b>			
<b>US 50, NW AND SW RAMP</b>			
SCALE: 1" = 20'	SHEET 1	OF 5 SHEETS	STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	16
CONTRACT NO. 76P45				
ILLINOIS   FED. AID PROJECT				

MATCHLINE 56+50

PAVEMENT MARKING LEGEND

- WL - WHITE THERMOPLASTIC LINE, 4"
- YL - YELLOW THERMOPLASTIC LINE, 4"
- WL8 - WHITE THERMOPLASTIC LINE - 8"
- DYL - DOUBLE YELLOW THERMOPLASTIC LINE, 4"
- WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 10' LINE, 30' SPACE
- 2-6WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 2' LINE, 6' SPACE
- WYT - WHITE THERMOPLASTIC YIELD TRIANGLES, 2' W x 3' H
- WC10 - WHITE THERMOPLASTIC CHEVRONS, 12", 10' SPACE
- WD10 - WHITE THERMOPLASTIC DIAGONALS, 12" 10' SPACE
- WD15 - WHITE THERMOPLASTIC DIAGONALS, 12" 15' SPACE
- WD20 - WHITE THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- YD20 - YELLOW THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- WSB - WHITE THERMOPLASTIC STOP BAR, 24"
- LTA - WHITE THERMOPLASTIC LEFT TURN ARROW
- RTA - WHITE THERMOPLASTIC RIGHT TURN ARROW
- OC80 - ONE-WAY CRYSTAL, 80' CENTERS
- OC40 - ONE-WAY CRYSTAL, 40' CENTERS
- OC20 - ONE-WAY CRYSTAL, 20' CENTERS
- OA40 - ONE-WAY AMBER, 40' CENTERS
- OA20 - ONE-WAY AMBER, 20' CENTERS
- TA20 - TWO-WAY AMBER, 20' CENTERS
- MUWL - WHITE MODIFIED URETHANE LINE, 4"
- MUYL - YELLOW MODIFIED URETHANE LINE, 4"
- MUDYL - DOUBLE YELLOW MODIFIED URETHANE LINE, 4"
- MUWSD - WHITE MODIFIED URETHANE SKIP-DASH, 4", 10' LINE, 30' SPACE
- MUYD20 - YELLOW MODIFIED URETHANE DIAGONALS, 12", 20' SPACE
- MULTA - WHITE MODIFIED URETHANE DIAGONALS LEFT TURN ARROW



NOTE: SEE DETAILS FOR THE APPLICATION OF CURB PAINT PAVEMENT MARKING

MODEL: I:\MODEL\NAME FILE NAME: P:\pub\m3000.mxd PROJECT: I:\projects\0876945\CADD\data\CAD\pavement\0876945-pl-pmk.dgn

USER NAME = estevesst	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISIONS - _____	
PLOT SCALE = 40,0000 * / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 3/5/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING DETAILS</b>			
<b>US 50</b>			
SCALE: 1" = 20'	SHEET 2	OF 5 SHEETS	STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	17
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING LEGEND

- WL - WHITE THERMOPLASTIC LINE, 4"
- YL - YELLOW THERMOPLASTIC LINE, 4"
- WL8 - WHITE THERMOPLASTIC LINE - 8"
- DYL - DOUBLE YELLOW THERMOPLASTIC LINE, 4"
- WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 10' LINE, 30' SPACE
- 2-6WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 2' LINE, 6' SPACE
- WYT - WHITE THERMOPLASTIC YIELD TRIANGLES, 2' W x 3' H
- WC10 - WHITE THERMOPLASTIC CHEVRONS, 12", 10' SPACE
- WD10 - WHITE THERMOPLASTIC DIAGONALS, 12", 10' SPACE
- WD15 - WHITE THERMOPLASTIC DIAGONALS, 12", 15' SPACE
- WD20 - WHITE THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- YD20 - YELLOW THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- WSB - WHITE THERMOPLASTIC STOP BAR, 24"
- LTA - WHITE THERMOPLASTIC LEFT TURN ARROW
- RTA - WHITE THERMOPLASTIC RIGHT TURN ARROW
- OC80 - ONE-WAY CRYSTAL, 80' CENTERS
- OC40 - ONE-WAY CRYSTAL, 40' CENTERS
- OC20 - ONE-WAY CRYSTAL, 20' CENTERS
- OA40 - ONE-WAY AMBER, 40' CENTERS
- OA20 - ONE-WAY AMBER, 20' CENTERS
- TA20 - TWO-WAY AMBER, 20' CENTERS
- MUWL - WHITE MODIFIED URETHANE LINE, 4"
- MUYL - YELLOW MODIFIED URETHANE LINE, 4"
- MUDYL - DOUBLE YELLOW MODIFIED URETHANE LINE, 4"
- MUWSD - WHITE MODIFIED URETHANE SKIP-DASH, 4", 10' LINE, 30' SPACE
- MUYD20 - YELLOW MODIFIED URETHANE DIAGONALS, 12", 20' SPACE
- MULTA - WHITE MODIFIED URETHANE DIAGONALS LEFT TURN ARROW

- EXIST. CURVE W5ORNE.C1
- PI STA. = 2+94.56
- Δ = 53° 14' 19" (LT)
- D = 23° 52' 24"
- R = 240.00'
- T = 120.28'
- L = 223.01'
- E = 28.46'
- e = -----
- T.R. = -----
- S.E. RUN = -----
- P.C. STA. = 1+74.28
- P.T. STA. = 3+97.28

MATCHLINE 62+50

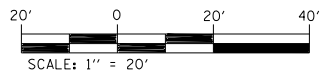
MATCHLINE 2+00

END PROJECT  
STA. 68+36.00

STA. 66+72.79 (US 50)  
STA. 0+00.00 (NORTH EAST RAMP)

STA. 66+22.00 (US 50)  
STA. 9+88.30 (SOUTH EAST RAMP)

NOTE: SEE DETAILS FOR THE APPLICATION  
OF CURB PAINT PAVEMENT MARKING



MATCHLINE 8+00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS  
US 50, NE AND SE RAMP

USER NAME = estevest	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISED - _____	
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PLOT DATE = 3/5/2021	DATE - _____	REVISED - _____

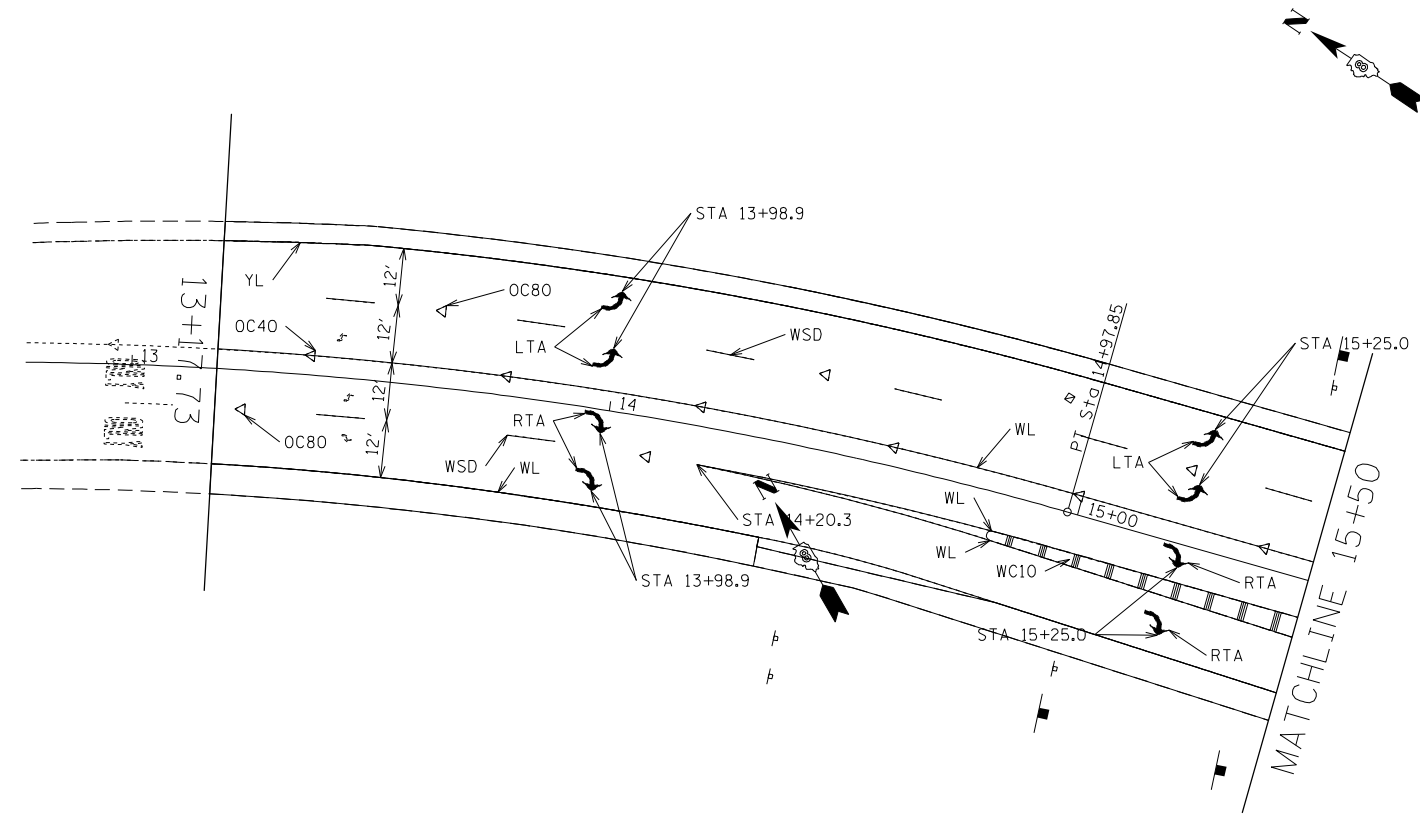
SCALE: 1" = 20' SHEET 3 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	18
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				

# NW RAMP

## PAVEMENT MARKING LEGEND

- WL - WHITE THERMOPLASTIC LINE, 4"
- YL - YELLOW THERMOPLASTIC LINE, 4"
- WL8 - WHITE THERMOPLASTIC LINE - 8"
- DYL - DOUBLE YELLOW THERMOPLASTIC LINE, 4"
- WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 10' LINE, 30' SPACE
- 2-6WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 2' LINE, 6' SPACE
- WYT - WHITE THERMOPLASTIC YIELD TRIANGLES, 2' W x 3' H
- WC10 - WHITE THERMOPLASTIC CHEVRONS, 12", 10' SPACE
- WD10 - WHITE THERMOPLASTIC DIAGONALS, 12" 10' SPACE
- WD15 - WHITE THERMOPLASTIC DIAGONALS, 12" 15' SPACE
- WD20 - WHITE THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- YD20 - YELLOW THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- WSB - WHITE THERMOPLASTIC STOP BAR, 24"
- LTA - WHITE THERMOPLASTIC LEFT TURN ARROW
- RTA - WHITE THERMOPLASTIC RIGHT TURN ARROW
- OC80 - ONE-WAY CRYSTAL, 80' CENTERS
- OC40 - ONE-WAY CRYSTAL, 40' CENTERS
- OC20 - ONE-WAY CRYSTAL, 20' CENTERS
- OA40 - ONE-WAY AMBER, 40' CENTERS
- OA20 - ONE-WAY AMBER, 20' CENTERS
- TA20 - TWO-WAY AMBER, 20' CENTERS
- MUWL - WHITE MODIFIED URETHANE LINE, 4"
- MUYL - YELLOW MODIFIED URETHANE LINE, 4"
- MUDYL - DOUBLE YELLOW MODIFIED URETHANE LINE, 4"
- MUWSD - WHITE MODIFIED URETHANE SKIP-DASH, 4", 10' LINE, 30' SPACE
- MUYD20 - YELLOW MODIFIED URETHANE DIAGONALS, 12", 20' SPACE
- MULTA - WHITE MODIFIED URETHANE DIAGONALS LEFT TURN ARROW

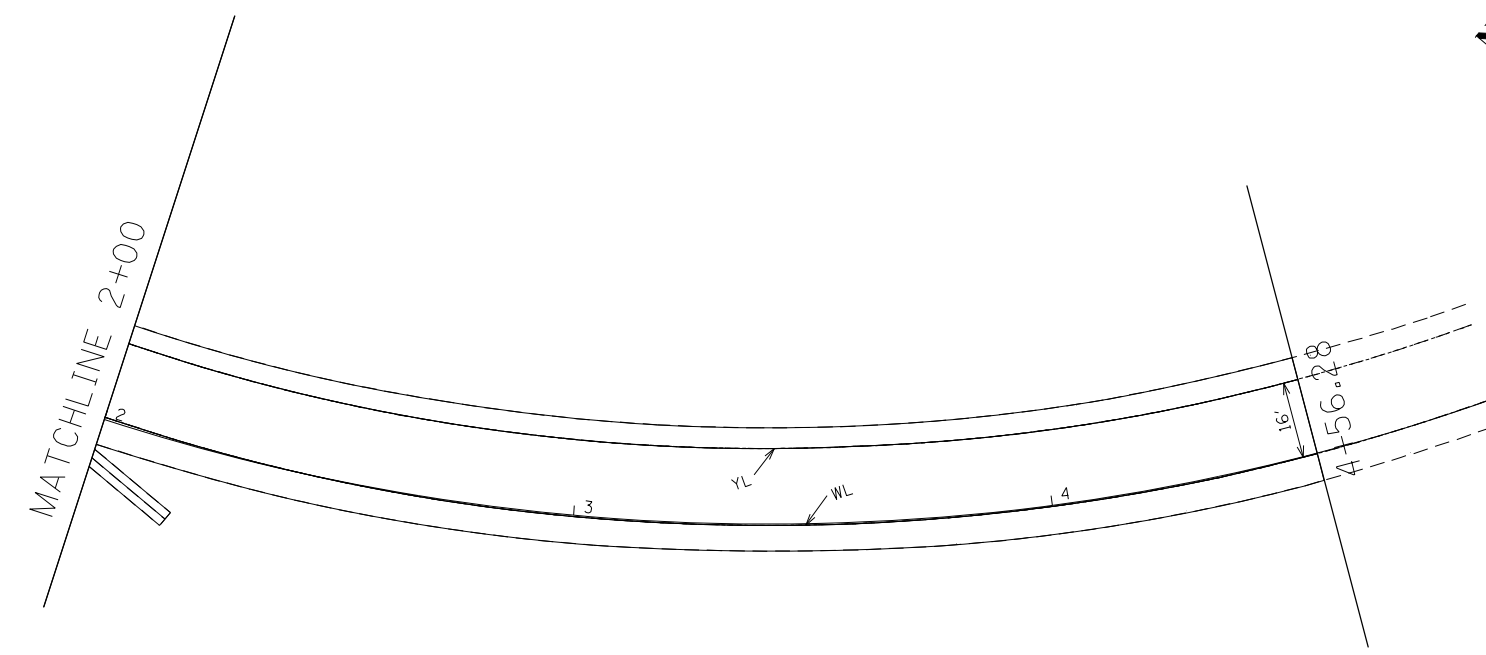


EXIST. CURVE W50RNW\_C3  
 PI STA. = 13+10.80  
 $\Delta$  = 26° 40' 50" (RT)  
 D = 7° 00' 00"  
 R = 818.51'  
 T = 194.10'  
 L = 381.15'  
 E = 22.70'  
 e = ----  
 T.R. = ----  
 S.E. RUN = ----  
 P.C. STA. = 11+16.70  
 P.T. STA. = 14+97.85

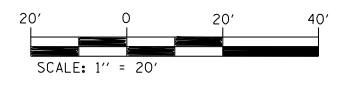
# SW RAMP

## PAVEMENT MARKING LEGEND

- WL - WHITE THERMOPLASTIC LINE, 4"
- YL - YELLOW THERMOPLASTIC LINE, 4"
- WL8 - WHITE THERMOPLASTIC LINE - 8"
- DYL - DOUBLE YELLOW THERMOPLASTIC LINE, 4"
- WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 10' LINE, 30' SPACE
- 2-6WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 2' LINE, 6' SPACE
- WYT - WHITE THERMOPLASTIC YIELD TRIANGLES, 2' W x 3' H
- WC10 - WHITE THERMOPLASTIC CHEVRONS, 12", 10' SPACE
- WD10 - WHITE THERMOPLASTIC DIAGONALS, 12" 10' SPACE
- WD15 - WHITE THERMOPLASTIC DIAGONALS, 12" 15' SPACE
- WD20 - WHITE THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- YD20 - YELLOW THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- WSB - WHITE THERMOPLASTIC STOP BAR, 24"
- LTA - WHITE THERMOPLASTIC LEFT TURN ARROW
- RTA - WHITE THERMOPLASTIC RIGHT TURN ARROW
- OC80 - ONE-WAY CRYSTAL, 80' CENTERS
- OC40 - ONE-WAY CRYSTAL, 40' CENTERS
- OC20 - ONE-WAY CRYSTAL, 20' CENTERS
- OA40 - ONE-WAY AMBER, 40' CENTERS
- OA20 - ONE-WAY AMBER, 20' CENTERS
- TA20 - TWO-WAY AMBER, 20' CENTERS
- MUWL - WHITE MODIFIED URETHANE LINE, 4"
- MUYL - YELLOW MODIFIED URETHANE LINE, 4"
- MUDYL - DOUBLE YELLOW MODIFIED URETHANE LINE, 4"
- MUWSD - WHITE MODIFIED URETHANE SKIP-DASH, 4", 10' LINE, 30' SPACE
- MUYD20 - YELLOW MODIFIED URETHANE DIAGONALS, 12", 20' SPACE
- MULTA - WHITE MODIFIED URETHANE DIAGONALS LEFT TURN ARROW



EXIST. CURVE W50RWS\_C1  
 PI STA. = 4+47.09  
 $\Delta$  = 63° 52' 47" (LT)  
 D = 12° 43' 57"  
 R = 450.00'  
 T = 280.54'  
 L = 501.71'  
 E = 80.28'  
 e = ----  
 T.R. = ----  
 S.E. RUN = ----  
 P.C. STA. = 1+66.55  
 P.T. STA. = 6+68.26



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

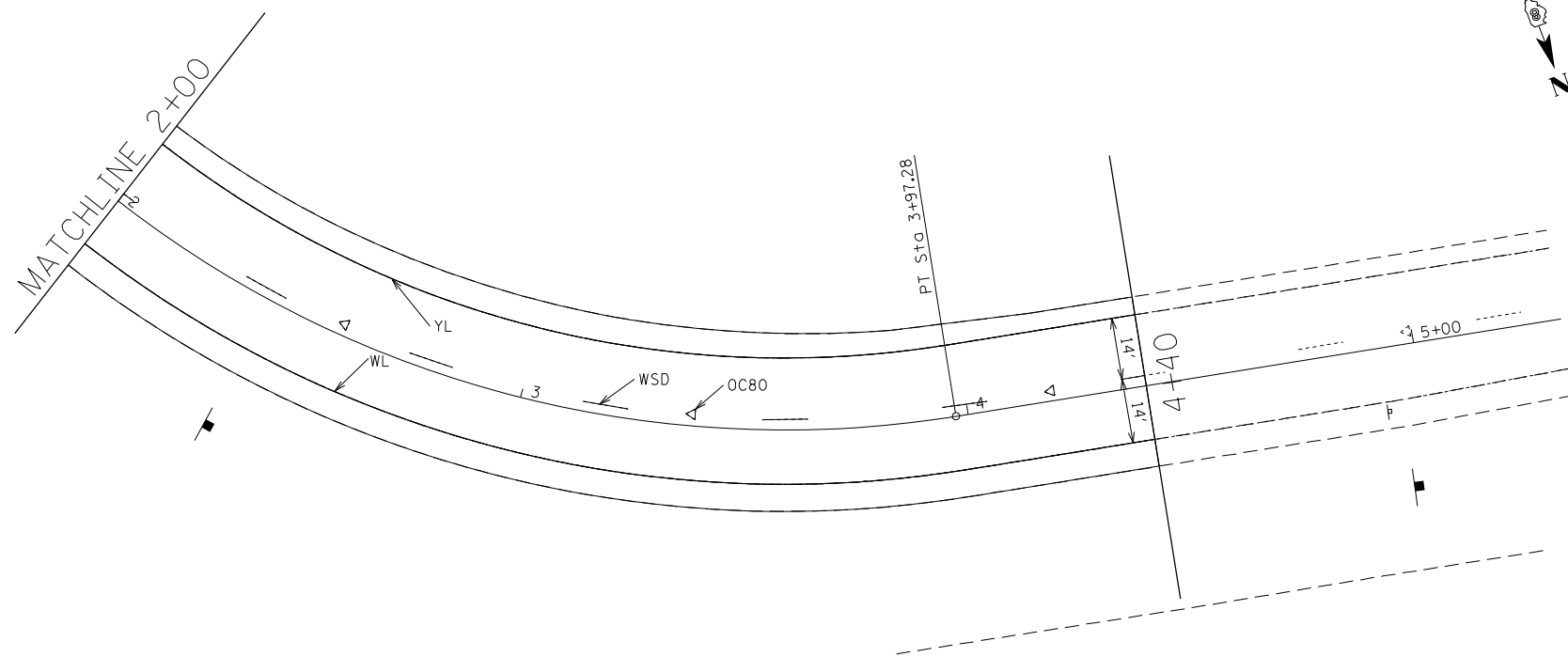
<b>PAVEMENT MARKING DETAILS          NW AND SW RAMP</b>			
SCALE: 1" = 20'	SHEET 4	OF 5 SHEETS	STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	19
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				

# NE RAMP

## PAVEMENT MARKING LEGEND

- WL - WHITE THERMOPLASTIC LINE, 4"
- YL - YELLOW THERMOPLASTIC LINE, 4"
- WL8 - WHITE THERMOPLASTIC LINE - 8"
- DYL - DOUBLE YELLOW THERMOPLASTIC LINE, 4"
- WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 10' LINE, 30' SPACE
- 2-6WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 2' LINE, 6' SPACE
- WYT - WHITE THERMOPLASTIC YIELD TRIANGLES, 2' W x 3' H
- WC10 - WHITE THERMOPLASTIC CHEVRONS, 12", 10' SPACE
- WD10 - WHITE THERMOPLASTIC DIAGONALS, 12" 10' SPACE
- WD15 - WHITE THERMOPLASTIC DIAGONALS, 12" 15' SPACE
- WD20 - WHITE THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- YD20 - YELLOW THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- WSB - WHITE THERMOPLASTIC STOP BAR, 24"
- LTA - WHITE THERMOPLASTIC LEFT TURN ARROW
- RTA - WHITE THERMOPLASTIC RIGHT TURN ARROW
- OC80 - ONE-WAY CRYSTAL, 80' CENTERS
- OC40 - ONE-WAY CRYSTAL, 40' CENTERS
- OC20 - ONE-WAY CRYSTAL, 20' CENTERS
- OA40 - ONE-WAY AMBER, 40' CENTERS
- OA20 - ONE-WAY AMBER, 20' CENTERS
- TA20 - TWO-WAY AMBER, 20' CENTERS
- MUWL - WHITE MODIFIED URETHANE LINE, 4"
- MUYL - YELLOW MODIFIED URETHANE LINE, 4"
- MUDYL - DOUBLE YELLOW MODIFIED URETHANE LINE, 4"
- MUWSD - WHITE MODIFIED URETHANE SKIP-DASH, 4", 10' LINE, 30' SPACE
- MUYD20 - YELLOW MODIFIED URETHANE DIAGONALS, 12", 20' SPACE
- MULTA - WHITE MODIFIED URETHANE DIAGONALS LEFT TURN ARROW

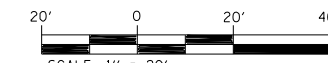
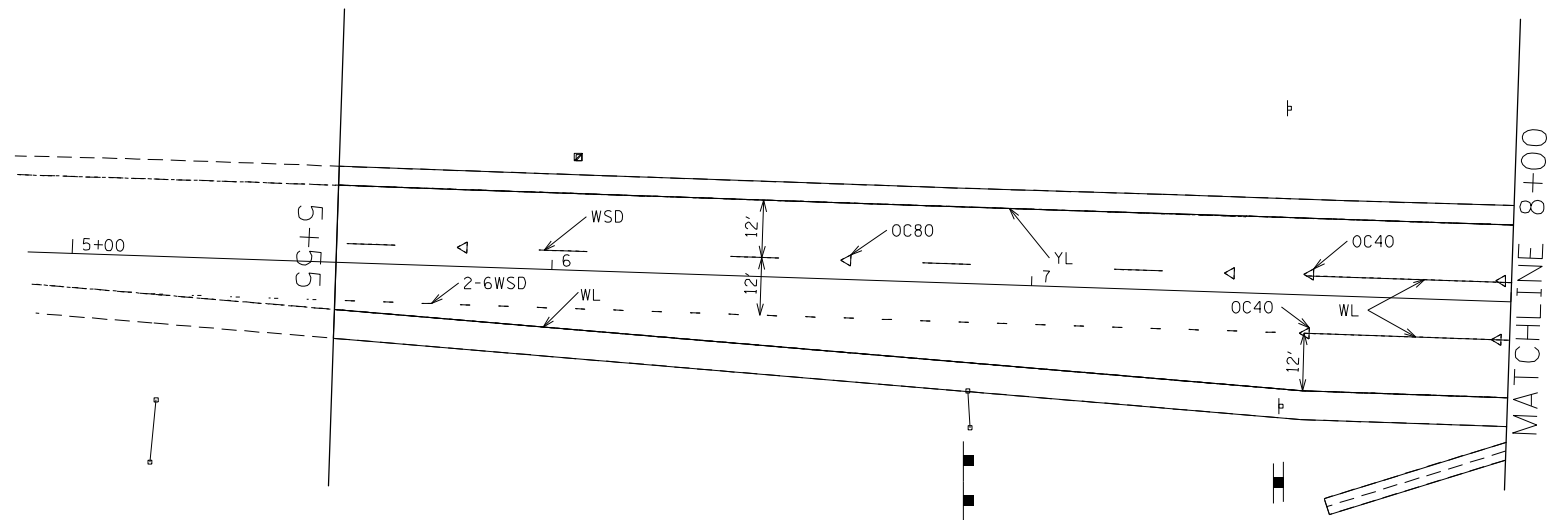


EXIST. CURVE W5ORNE\_C1  
 PI STA. = 2+94.56  
 $\Delta = 53^\circ 14' 19''$  (L.T)  
 D = 23' 52' 24"  
 R = 240.00'  
 T = 120.28'  
 L = 223.01'  
 E = 28.46'  
 e = ----  
 T.R. = ----  
 S.E. RUN = ----  
 P.C. STA. = 1+74.28  
 P.T. STA. = 3+97.28

# SE RAMP

## PAVEMENT MARKING LEGEND

- WL - WHITE THERMOPLASTIC LINE, 4"
- YL - YELLOW THERMOPLASTIC LINE, 4"
- WL8 - WHITE THERMOPLASTIC LINE - 8"
- DYL - DOUBLE YELLOW THERMOPLASTIC LINE, 4"
- WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 10' LINE, 30' SPACE
- 2-6WSD - WHITE THERMOPLASTIC SKIP-DASH, 4", 2' LINE, 6' SPACE
- WYT - WHITE THERMOPLASTIC YIELD TRIANGLES, 2' W x 3' H
- WC10 - WHITE THERMOPLASTIC CHEVRONS, 12", 10' SPACE
- WD10 - WHITE THERMOPLASTIC DIAGONALS, 12" 10' SPACE
- WD15 - WHITE THERMOPLASTIC DIAGONALS, 12" 15' SPACE
- WD20 - WHITE THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- YD20 - YELLOW THERMOPLASTIC DIAGONALS, 12", 20' SPACE
- WSB - WHITE THERMOPLASTIC STOP BAR, 24"
- LTA - WHITE THERMOPLASTIC LEFT TURN ARROW
- RTA - WHITE THERMOPLASTIC RIGHT TURN ARROW
- OC80 - ONE-WAY CRYSTAL, 80' CENTERS
- OC40 - ONE-WAY CRYSTAL, 40' CENTERS
- OC20 - ONE-WAY CRYSTAL, 20' CENTERS
- OA40 - ONE-WAY AMBER, 40' CENTERS
- OA20 - ONE-WAY AMBER, 20' CENTERS
- TA20 - TWO-WAY AMBER, 20' CENTERS
- MUWL - WHITE MODIFIED URETHANE LINE, 4"
- MUYL - YELLOW MODIFIED URETHANE LINE, 4"
- MUDYL - DOUBLE YELLOW MODIFIED URETHANE LINE, 4"
- MUWSD - WHITE MODIFIED URETHANE SKIP-DASH, 4", 10' LINE, 30' SPACE
- MUYD20 - YELLOW MODIFIED URETHANE DIAGONALS, 12", 20' SPACE
- MULTA - WHITE MODIFIED URETHANE DIAGONALS LEFT TURN ARROW



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USER NAME = estevesst	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 3/5/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING DETAILS  
 NE AND SE RAMP**

SCALE: 1" = 20'    SHEET 5    OF 5    SHEETS    STA. \_\_\_\_\_    TO STA. \_\_\_\_\_

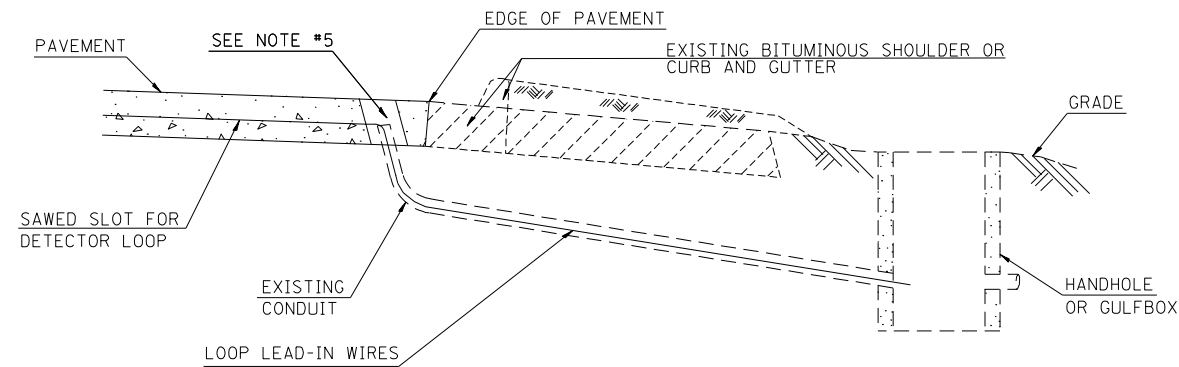
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	20
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				



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	HWY 50 & HARTMAN LANE	HWY 50 & I-64 EB EXIT RAMP	HWY 50 & I-64 WB EXIT RAMP
CODE NO	ITEM	UNIT				
<del>80300100</del>	LOCATING UNDERGROUND CABLE	FOOT	70	10	60	60
<del>88600000</del>	DETECTOR LOOP REPLACEMENT	FOOT	2318	74	2243	2126



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

- EX. HANDHOLE
- EX. DETECTOR LOOP
- ▣ EX. TRAFFIC SIGNAL CONTROLLER
- EXISTING CONDUIT
- ▬ PROPOSED DETECTOR LOOP

MODEL: \\MODEL\NAME  
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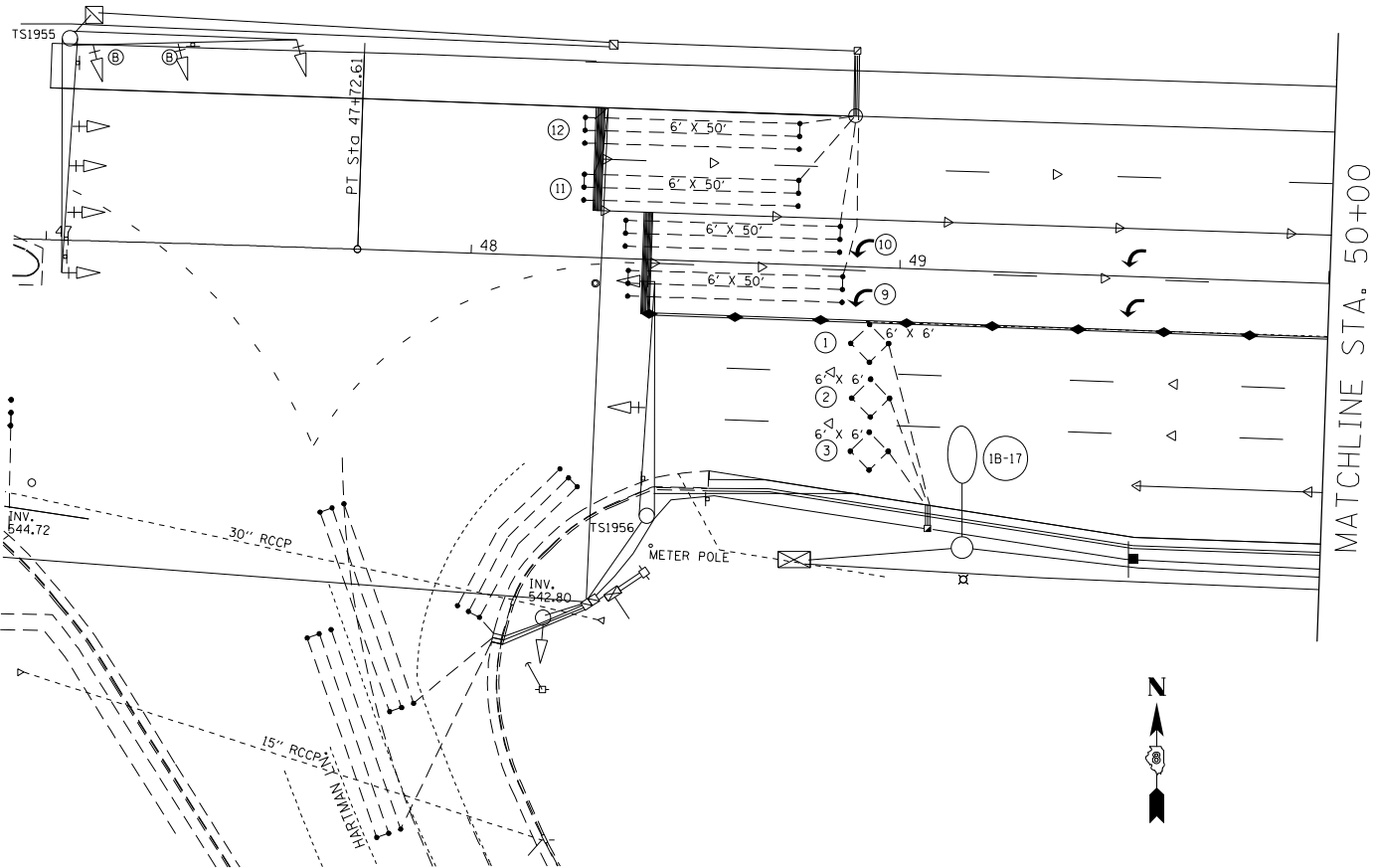
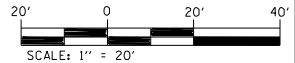
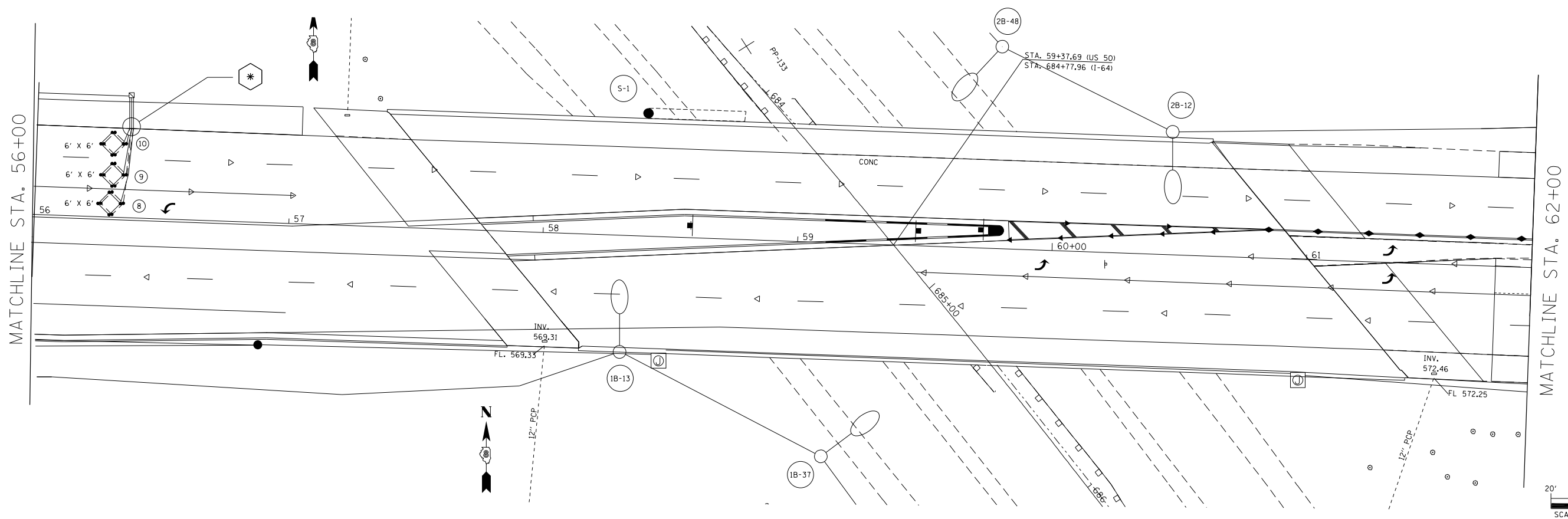
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PLOT DATE = 3/5/2021	DATE - _____	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SCALE: \_\_\_\_\_ SHEET 1 OF 4 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	21
CONTRACT NO. 76P45			ILLINOIS FED. AID PROJECT	

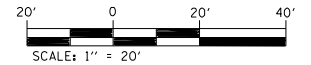


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR W. HIGHWAY 50 AND HARTMAN LANE

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED * OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
1.-6. NA	NA	NA	NA	NA	NA
7. WB CCO A	5	6' X 6'	6	365.0	2.9
8. WB CCO B	5	6' X 6'	6	367.4	2.9
9. WB THRU CD A	5	6' X 50'	3-6-3	840.2	2.8
10. WB THRU CD B	5	6' X 50'	3-6-3	837.7	2.8
11. WB LT CD A	5	6' X 50'	3-6-3	836.3	2.7
12. WB LT CD B	5	6' X 50'	3-6-3	834.7	2.7

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"



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PLOT DATE = 3/5/2021	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN  
 1. W. HWY. 50-NESE RAMPS TO NW-SW RAMPS  
 2. W. HWY. 50 AND HARTMAN LN.**

SCALE: \_\_\_\_\_ SHEET 2 OF 4 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	22
CONTRACT NO. 76P45				

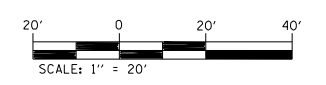
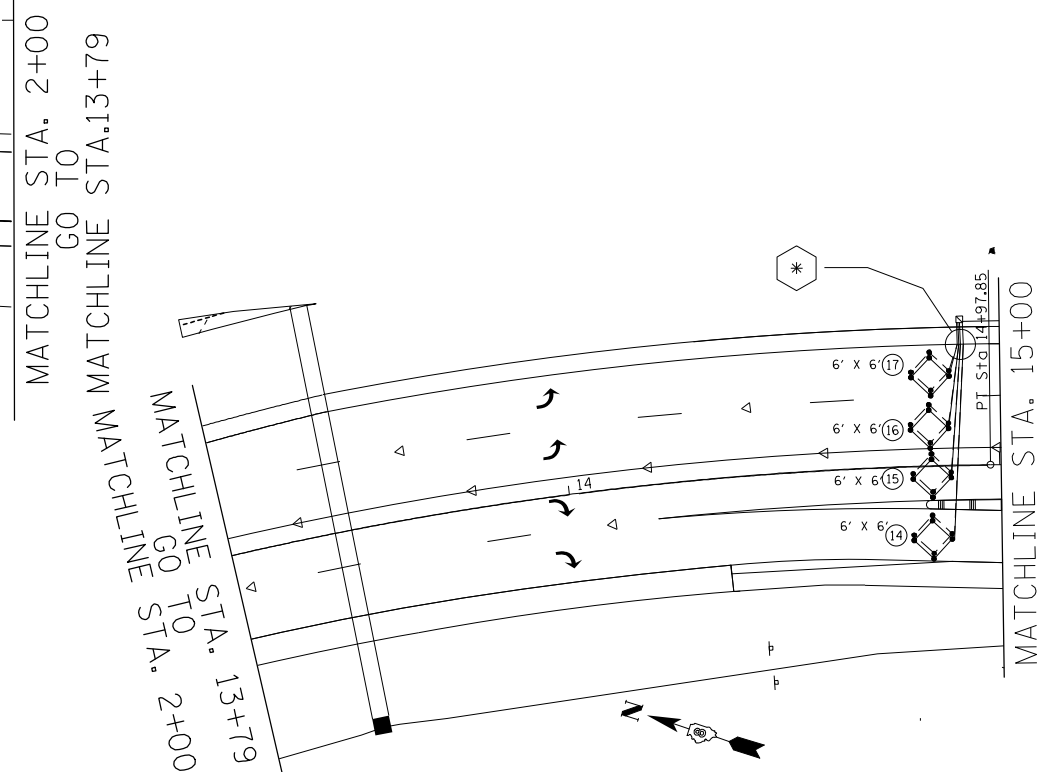
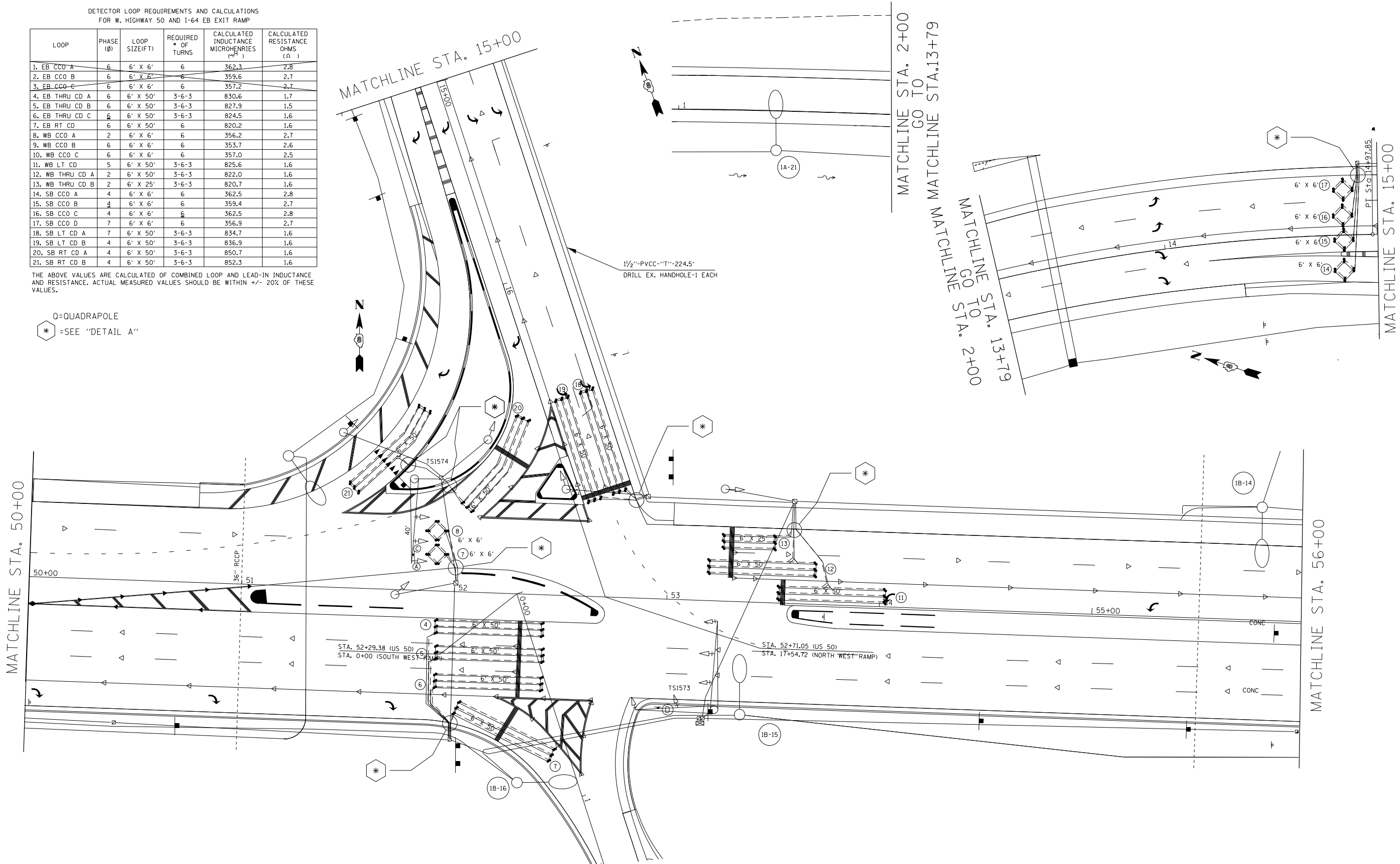
ILLINOIS FED. AID PROJECT

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS  
FOR W. HIGHWAY 50 AND I-64 EB EXIT RAMP

LOOP	PHASE (Ø)	LOOP SIZE (FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB CCO A	6	6' X 6'	6	362.3	2.8
2. EB CCO B	6	6' X 6'	6	359.6	2.7
3. EB CCO C	6	6' X 6'	6	357.2	2.7
4. EB THRU CD A	6	6' X 50'	3-6-3	830.6	1.7
5. EB THRU CD B	6	6' X 50'	3-6-3	827.9	1.5
6. EB THRU CD C	6	6' X 50'	3-6-3	824.5	1.6
7. EB RT CD	6	6' X 50'	6	820.2	1.6
8. WB CCO A	2	6' X 6'	6	356.2	2.7
9. WB CCO B	6	6' X 6'	6	353.7	2.6
10. WB CCO C	6	6' X 6'	6	357.0	2.5
11. WB LT CD	5	6' X 50'	3-6-3	825.6	1.6
12. WB THRU CD A	2	6' X 50'	3-6-3	822.0	1.6
13. WB THRU CD B	2	6' X 25'	3-6-3	820.7	1.6
14. SB CCO A	4	6' X 6'	6	362.5	2.8
15. SB CCO B	4	6' X 6'	6	359.4	2.7
16. SB CCO C	4	6' X 6'	6	362.5	2.8
17. SB CCO D	7	6' X 6'	6	356.9	2.7
18. SB LT CD A	7	6' X 50'	3-6-3	834.7	1.6
19. SB LT CD B	4	6' X 50'	3-6-3	836.9	1.6
20. SB RT CD A	4	6' X 50'	3-6-3	850.7	1.6
21. SB RT CD B	4	6' X 50'	3-6-3	852.3	1.6

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

Ø=QUADRAPOLE  
\* =SEE "DETAIL A"



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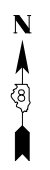
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PLOT DATE = 3/5/2021	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN W. HWY. 50 AND NW/SW I-64 RAMP	
SCALE: _____	SHEET 3 OF 4 SHEETS STA. _____ TO STA. _____

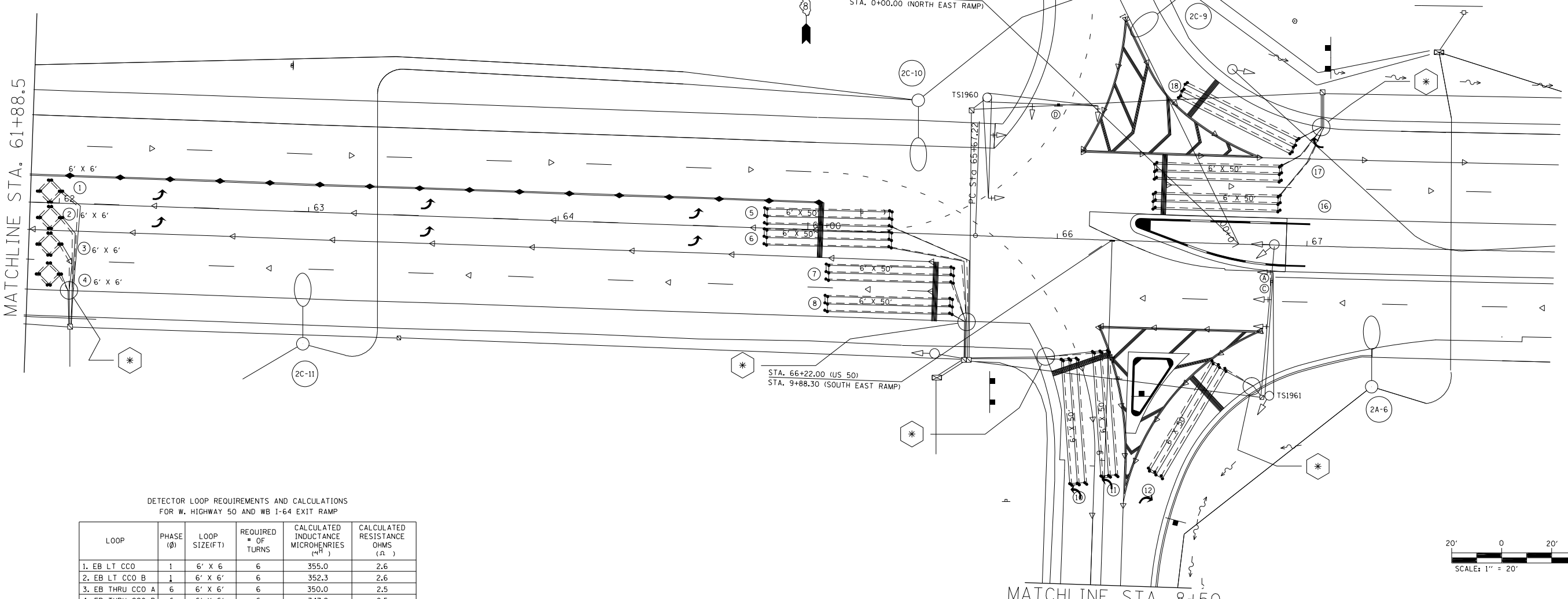
F.A.U. R.I.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	23
CONTRACT NO. 76P45				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 61+88.5



STA. 66+72.79 (US 50)  
STA. 0+00.00 (NORTH EAST RAMP)

STA. 66+22.00 (US 50)  
STA. 9+88.30 (SOUTH EAST RAMP)



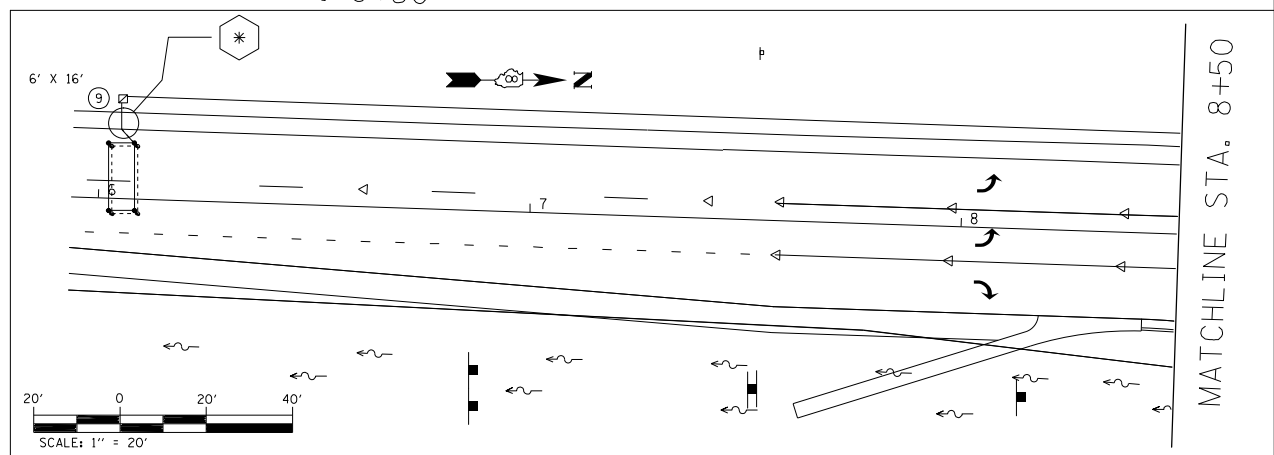
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS  
FOR W. HIGHWAY 50 AND WB I-64 EXIT RAMP

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (R)
1. EB LT CCO	1	6' X 6'	6	355.0	2.6
2. EB LT CCO B	1	6' X 6'	6	352.3	2.6
3. EB THRU CCO A	6	6' X 6'	6	350.0	2.5
4. EB THRU CCO B	6	6' X 6'	6	347.2	2.5
5. EB LT CD A	1	6' X 50'	3-6-3	808.4	2.1
6. EB LT CD B	1	6' X 50'	3-6-3	807.4	2.1
7. EB THRU CD A	6	6' X 50'	3-6-3	799.3	1.9
8. EB THRU CD B	6	6' X 50'	3-6-3	797.3	1.6
9. NB CCO	8	6' X 16'	6	555.1	2.7
10. NB LT CD A	3	6' X 50'	3-6-3	800.5	1.9
11. NB LT CD	3	6' X 50'	3-6-3	803.3	1.6
12. NB RT CD	3	6' X 50'	3-6-3	819.7	1.6
13.-15. NA	NA	NA	NA	NA	NA
16. WB THRU CD	2	6' X 50'	3-6-3	857.8	3.2
17. WB THRU CD B	2	6' X 50'	3-6-3	856.6	3.2
18. WB RT CD	2	6' X 50'	3-6-3	852.8	3.2

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"

MATCHLINE STA. 8+50



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PLOT DATE = 3/9/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

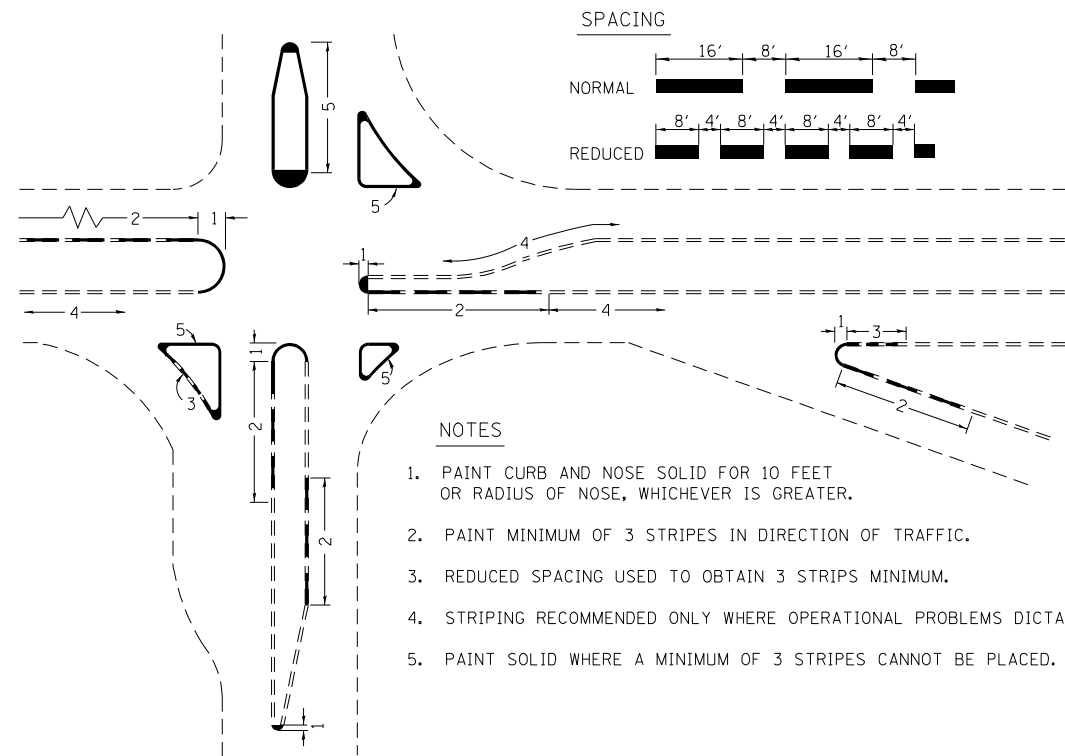
**DETECTOR LOOP REPLACEMENT PLAN  
W. HWY. 50 AND NESE I-64 RAMP**

SCALE: \_\_\_\_\_ SHEET 4 OF 4 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. R.I.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	24
CONTRACT NO. 76P45				

ILLINOIS FED. AID PROJECT

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CURB MARKING DETAIL  
 NOT TO SCALE

USER NAME = estevesst	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
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PLOT DATE = 3/5/2021	DATE - _____	REVISED - _____

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CURB PAINT  
 PAVEMENT MARKING DETAIL

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 A	32RS-4	ST. CLAIR	25	25
CONTRACT NO. 76P45			ILLINOIS FED. AID PROJECT	