

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	1
		ILLINOIS	CONTRACT NO. 76P39	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

IL 111/L 140 (BEGINNING OF PROJECT ANNEX. ST. TO IL 3)

2019 ADT	11500 (ACTUAL)
2041 ADT	12900 (ESTIMATED)
MU%	1.1
SU%	5.0

IL 111/L 140 (IL 3 TO FOSTERBURG RD.)

2019 ADT	20800 (ACTUAL)
2041 ADT	23300 (ESTIMATED)
MU%	2.4
SU%	6.5

IL 111/L 140 (FOSTERBURG RD. TO STANLEY RD.)

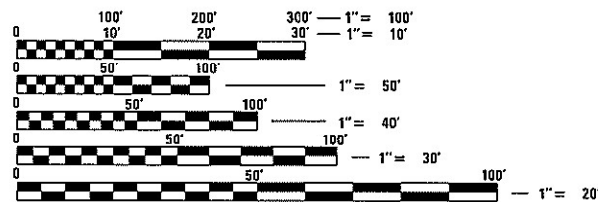
2019 ADT	14800 (ACTUAL)
2041 ADT	16600 (ESTIMATED)
MU%	3.9
SU%	5.7

IL 111/L 140 (STANLEY RD. TO I-255)

2019 ADT	17000 (ACTUAL)
2041 ADT	19100 (ESTIMATED)
MU%	2.4
SU%	2.4

IL 111/L 140 (I-255 TO END OF PROJECT)

2019 ADT	19200 (ACTUAL)
2041 ADT	21500 (ESTIMATED)
MU%	1.2
SU%	2.5



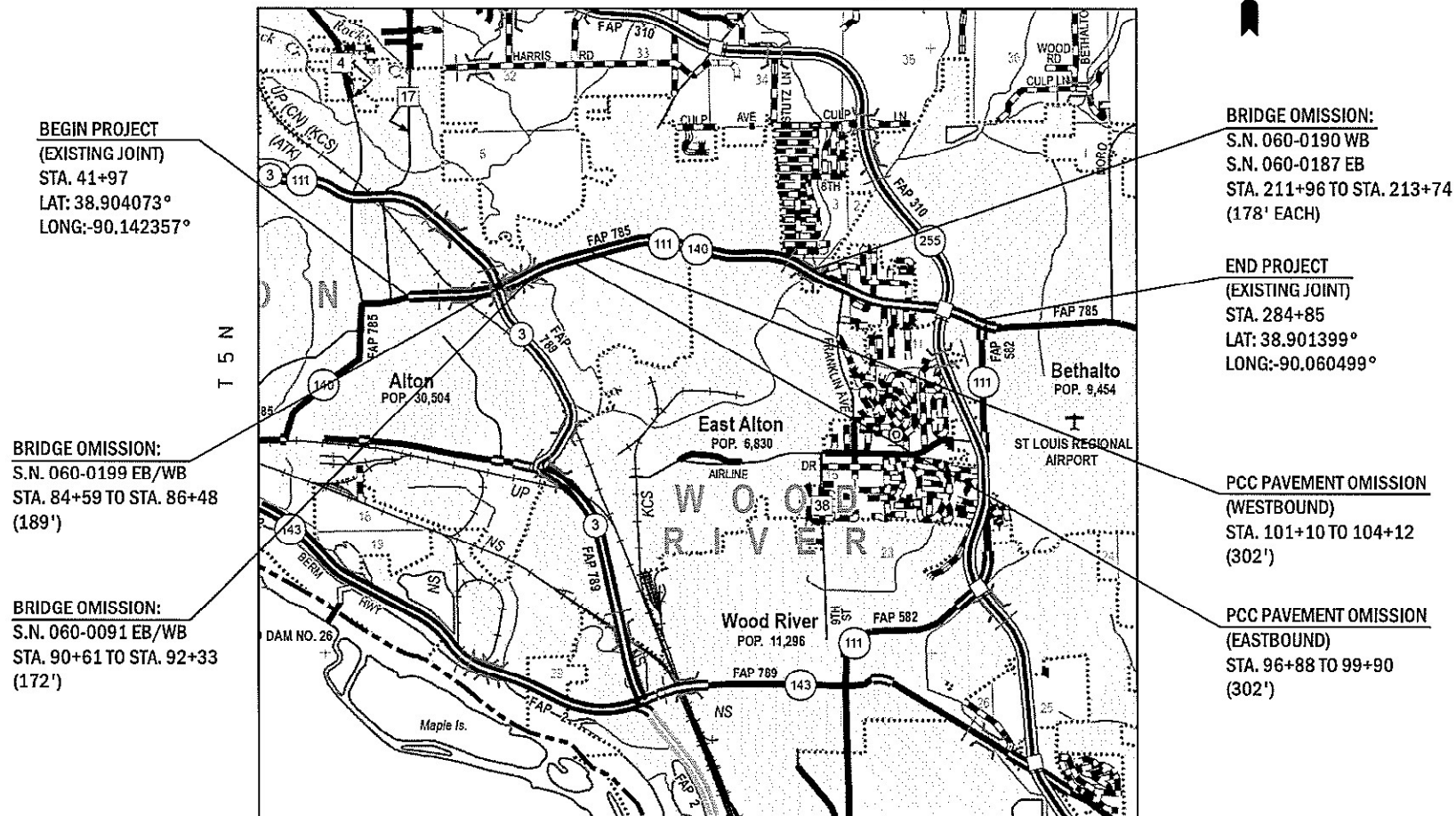
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROPOSED  
HIGHWAY PLANS

FAP ROUTE 785 (IL 111/L 140)  
SECTION (132-2,3,4 133-1)RS-1  
PROJECT NHPP-07CY(847)  
SMART OVERLAY RESURFACING  
MADISON COUNTY

C-98-044-22 R 9 W



BEGIN PROJECT  
(EXISTING JOINT)  
STA. 41+97  
LAT: 38.904073°  
LONG: -90.142357°

BRIDGE OMISSION:  
S.N. 060-0199 EB/WB  
STA. 84+59 TO STA. 86+48  
(189')

BRIDGE OMISSION:  
S.N. 060-0091 EB/WB  
STA. 90+61 TO STA. 92+33  
(172')

BRIDGE OMISSION:  
S.N. 060-0190 WB  
S.N. 060-0187 EB  
STA. 211+96 TO STA. 213+74  
(178' EACH)

END PROJECT  
(EXISTING JOINT)  
STA. 284+85  
LAT: 38.901399°  
LONG: -90.060499°

PCC PAVEMENT OMISSION  
(WESTBOUND)  
STA. 101+10 TO 104+12  
(302')

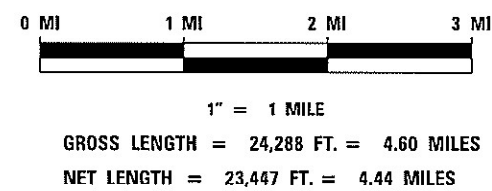
PCC PAVEMENT OMISSION  
(EASTBOUND)  
STA. 96+88 TO 99+90  
(302')



LOCATION OF SECTION INDICATED THUS: —

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

CONTRACT NO. 76P39



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 22 2021  
Keith Roberts  
REGIONAL ENGINEER

December 10 2021  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

December 10 2021  
[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

1 COVER SHEET  
 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, MIXTURE REQUIREMENTS & COMMITMENTS  
 3-4 SUMMARY OF QUANTITIES  
 5-18 TYPICAL SECTIONS  
 19-21 SCHEDULE OF QUANTITIES  
 22 LOCATION MAP  
 23 DETAILS  
 24-35 DETECTOR LOOP REPLACEMENT PLANS

**HIGHWAY STANDARDS**

000001-08. STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS  
 001006 DECIMAL OF AN INCH AND OF A FOOT  
 442101-09 CLASS B PATCHES  
 701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W DAY ONLY  
 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS DAY ONLY  
 701421-08 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH  
 701422-10 LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH  
 701501-06 URBAN LANE CLOSURE, 2L, 2W UNDIVIDED  
 701502-09 URBAN LANE CLOSURE, 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE  
 701602-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE  
 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN  
 701611-01 URBAN HALF ROAD 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 APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS  
 886001-01 DETECTOR LOOP INSTALLATIONS  
 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS  
 001001-02 AREAS OF REINFORCEMENT BARS  
 420001-10 PAVEMENT JOINTS  
 420701-03 PAVEMENT WELDED WIRE REINFORCMENT  
 442001-04 CLASS A PATCHES  
 782001-01 CURB REFLECTORS

**GENERAL NOTES**

① AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

	AERIAL	BURIED
CITY OF ALTON (SANITARY SEWER)		X
CITY OF ALTON (LIGHTING)	X	X
AMEREN ILLINOIS (GAS & ELECTRIC)	X	X
AT&T ILLINOIS (COMMUNICATIONS)	X	X
VILLAGE OF BETHALTO (WATER & SANITARY SEWER)		X
CHARTER COMMUNICATIONS, INC. (CABLE TV)	X	X
VILLAGE OF EAST ALTON (WATER & SANITARY SEWER)		X
EVERSTREAM GLC HOLDING COMPANY LLC (COMMUNICATIONS)	X	X
VILLAGE OF GODFREY (SANITARY SEWER)		X
ILLINOIS AMERICAN WATER COMPANY (WATER & SANITARY SEWER)	X	X
LEVEL 3 COMMUNICATIONS, LLC (COMMUNICATIONS)	X	X
SOUTHERN ILLINOIS UNIVERSITY-EDWARDSVILLE (LIGHTING)	X	X
SPRINT (COMMUNICATIONS)		X
WOOD RIVER DRAINAGE & LEVEE DISTRICT (SANITARY SEWER)	X	X
ZAYO GROUP LLC (COMMUNICATIONS)		X

② NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE PLANS WERE CREATED USING MICROFLIM AND FIELD MEASUREMENTS.

③ THE ILLINOIS DEPARTMENT OF TRANSPORTATION STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. PLEASE CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

- ④ THE PROPOSED PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS SHALL MATCH THE EXISTING PAVEMENT MARKINGS AND CONTINUE THROUGHOUT THE JOB AND TIE INTO THE EXISTING PAVEMENT MARKINGS AT THE END OF THE PROJECT.
- ⑤ SEVEN CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED ALONG IL 111/IL 140 TO ALERT DRIVERS OF THE UPCOMING 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.
- ⑥ MATERIAL TRANSFER DEVICE CAN OPERATE IN AN UNLOADED CONDITION ON STRUCTURES SN 060-0199, 0091, 0187, & 0190.
- ⑦ THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING, INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES, AND/OR ELECTRICAL CABLES ASSOCIATED WITH TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. IF ANY OF THESE EXIST WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS
- ⑧ ONLY SHORT-TERM MARKING FROM THE FINAL SURFACE SHALL BE PAID FOR AS "SHORT TERM PAVEMENT MARKING REMOVAL."

**MIXTURE REQUIREMENTS**

ROUTE	FAP 785 (IL 111/IL 140)
SECTION	(132-2,3,4, 133-1)RS-1
COUNTY	MADISON
CONTRACT	76P39

DESCRIPTION	SMART OVERLAY ON IL 111/IL 140 FROM ANNEX ST. TO 0.1 MILES WEST OF IL 111 (IN BETHALTO)
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MIXTURE USE	SURFACE	PATCHING	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0 % @ Ndes=90	4.0 % @ Ndes=90	4.0 % @ Ndes=90
MIX COMPOSITION (Gradation)	IL 9.5	IL 19.0	IL 9.5
FRICTION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "D"
QUALITY MGMT PROGRAM	QCP	QC/QA	QC/QA
MatTranDev Required?	YES	NO	YES

MIXTURE USE	SHOULDERS (surface)
AC/PG	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0 % @ Ndes=30
MIX COMPOSITION (Gradation)	IL 9.5L
FRICTION AGG	
QUALITY MGMT PROGRAM	QC/QA
MatTranDev Required?	NO

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

**COMMITMENTS**

NONE

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	DRAWN -	REVISED -			785	(132-2,3,4, 133-1)RS-1	MADISON	35	2	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED +			CONTRACT NO. 76P39					
PLOT DATE = 10/22/2021	DATE -	REVISED +			ILLINOIS   FED. AID PROJECT					
				SCALE: NTS	SHEET 1	OF 1	SHEETS	STA.	TO STA.	

80% FED  
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY
				0005 URBAN
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	96000	96000
40600370	LONGITUDINAL JOINT SEALANT	FOOT	84057	84057
40600990	TEMPORARY RAMP	SQ YD	862	862
40604064	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N90	TON	14257	14257
40700105	BITUMINOUS MATERIALS (FULL LANE SEALANT)	POUND	11	11
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	98	98
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	211791	211791
44200050	WELDED WIRE REINFORCEMENT	SQ YD	180	180
44200612	CLASS A PATCHES, TYPE III, 13 INCH	SQ YD	94	94
44201011	CLASS B PATCHES, TYPE III, 13 INCH	SQ YD	86	86
44201299	DOWEL BARS 1 1/2"	EACH	110	110
44213200	SAW CUTS	FOOT	664	664
48203100	HOT-MIX ASPHALT SHOULDERS	TON	3534	3534
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6

80% FED  
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY
				0005 URBAN
67100100	MOBILIZATION	L SUM	1	1
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	98	98
70300100	SHORT TERM PAVEMENT MARKING	FOOT	5772	5772
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	962	962
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	1404	1404
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	99505	99505
70300251	TEMPORARY PAVEMENT MARKING - LINE 8" - PAINT	FOOT	5205	5205
70300261	TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT	FOOT	1411	1411
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	FOOT	1067	1067

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	DATE -	REVISED +		ILLINOIS FED. AID PROJECT							

80% FED  
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				ROADWAY	
				0005	URBAN
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1404	1404	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	99505	99505	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	5205	5205	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1411	1411	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1067	1067	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1792	1792	
* 78200020	CURB REFLECTORS	EACH	1001	1001	
	78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1792	1792	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	14979	14979	
	78300202 PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	37808	37808	
	Z0034105 MATERIAL TRANSFER DEVICE	TON	14257	14257	
Ø	Z0076600 TRAINEES	HOUR	1000	1000	
Ø	Z0076604 TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	1000	

\* SPECIALTY ITEM

Ø 0042

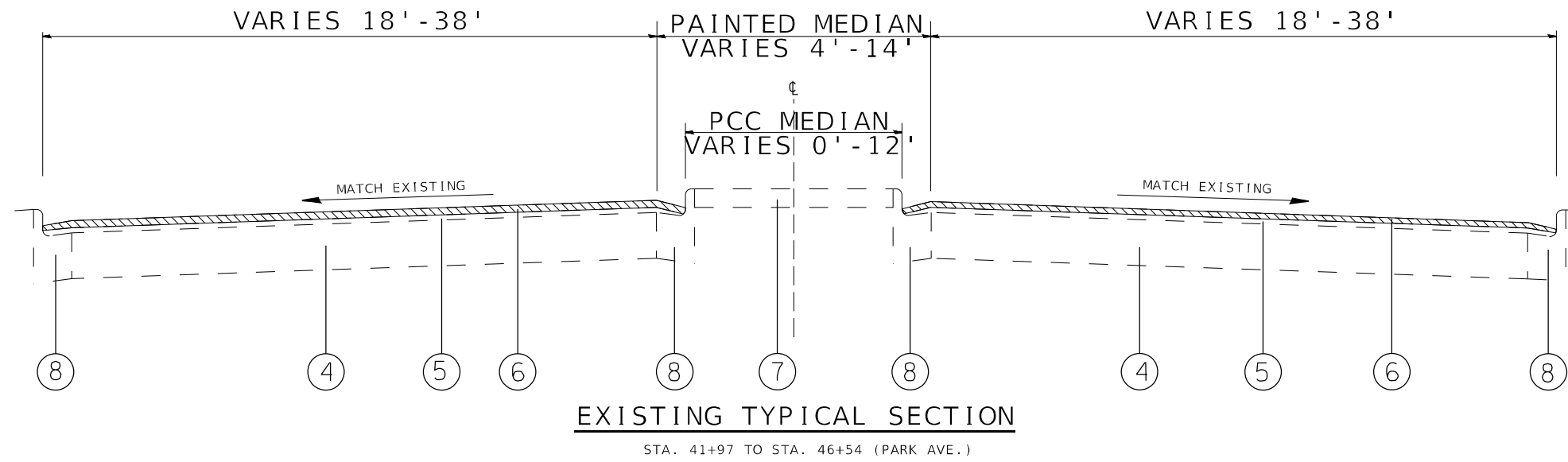
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	DATE -	REVISED +											

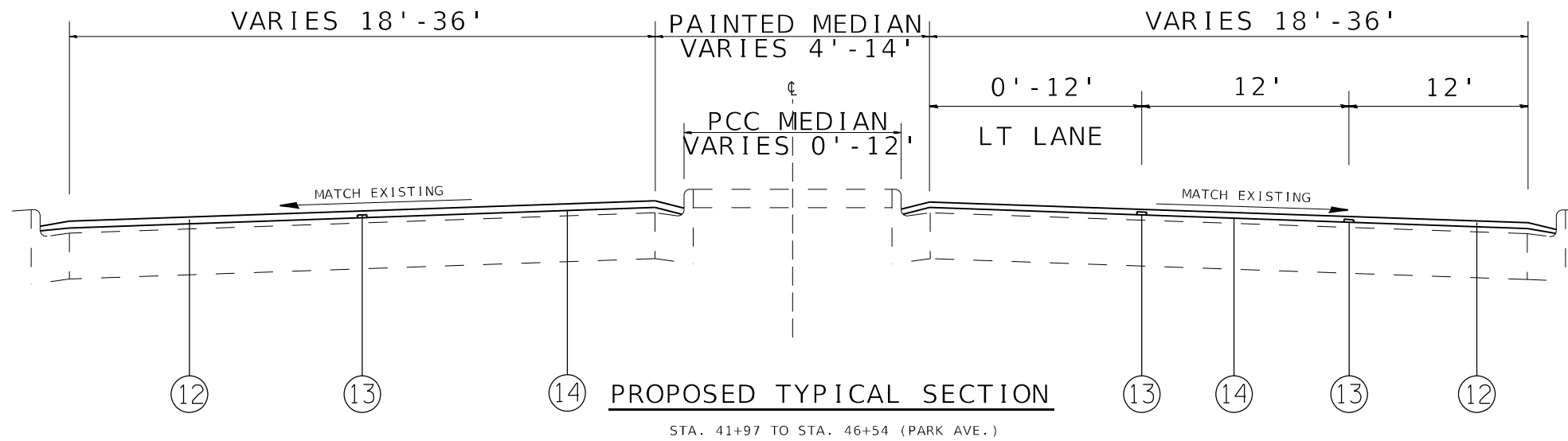
ILLINOIS FED. AID PROJECT





 HMA SURFACE REMOVAL 1 1/2"

THIS SECTION REPRESENTS THE TRANSITION FROM 2 LANE TO MULTI-LANE WITH VARIABLE WIDTH MEDIANS.



**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDIAN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

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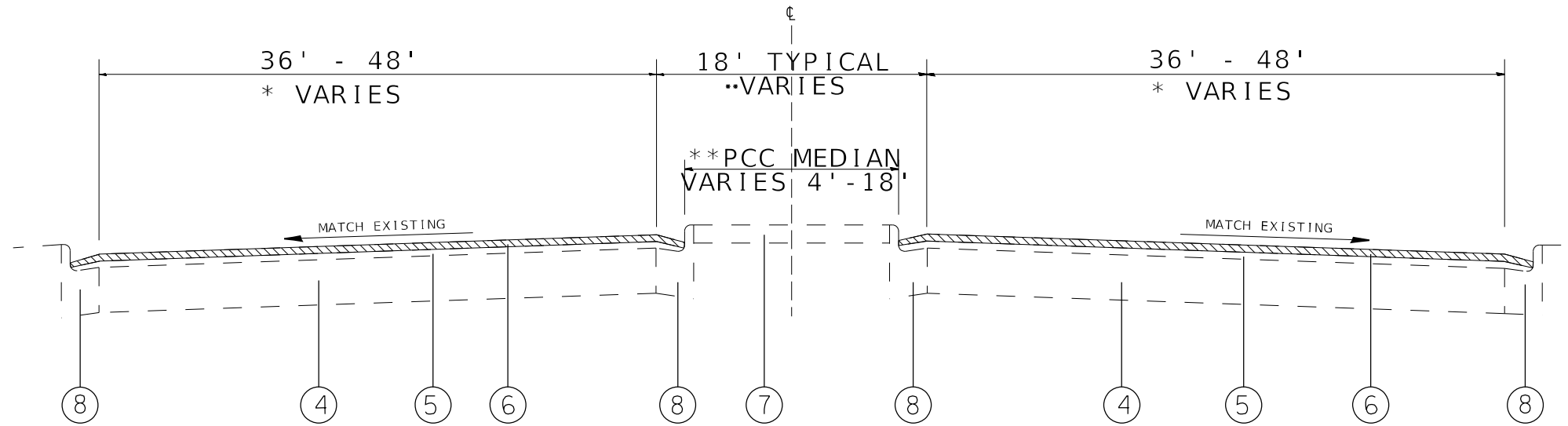
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NTS SHEET 1 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	5
			CONTRACT NO. 76P39	
			ILLINOIS FED. AID PROJECT	

IL 140/111



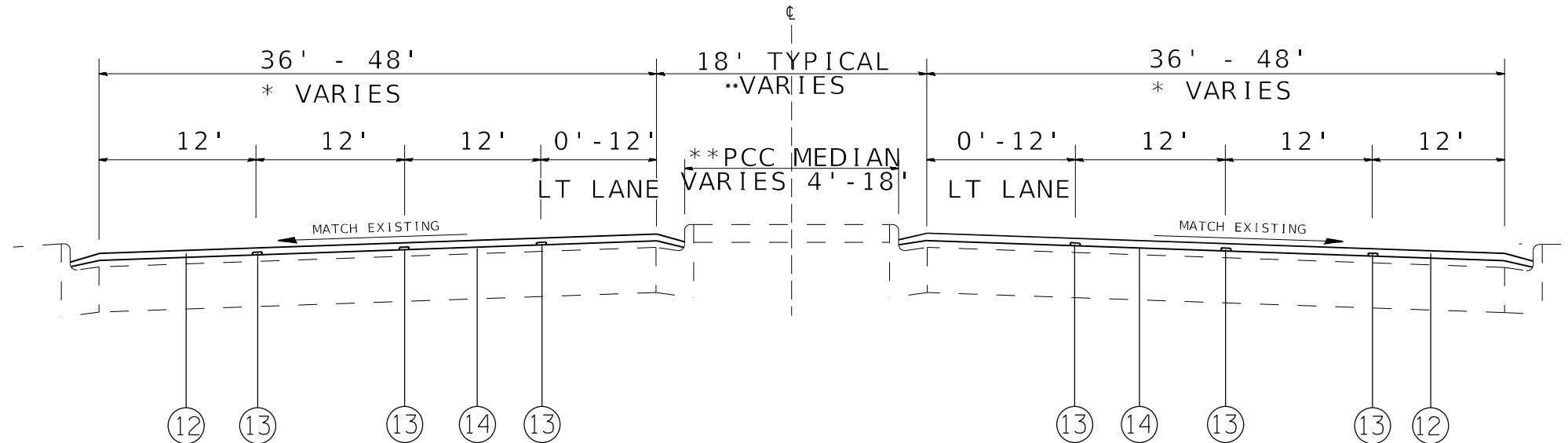
**EXISTING TYPICAL SECTION**

STA. 46+54 TO STA. 62+97  
(PARK AVE. TO JUST EAST OF RAILROAD STRUCTURE)

 HMA SURFACE REMOVAL 1 1/2"

\* THIRD LANE VARIES AS THRU LANE, STRIPPED MEDIAN, AND SHOULDER.  
\*\* LEFT-TURN LANES PRESENT AT VARIOUS LOCATIONS.

IL 140/111



**PROPOSED TYPICAL SECTION**

STA. 46+54 TO STA. 62+97  
PARK AVE. TO JUST EAST OF RAILROAD STRUCTURE

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDIAN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, 1L -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

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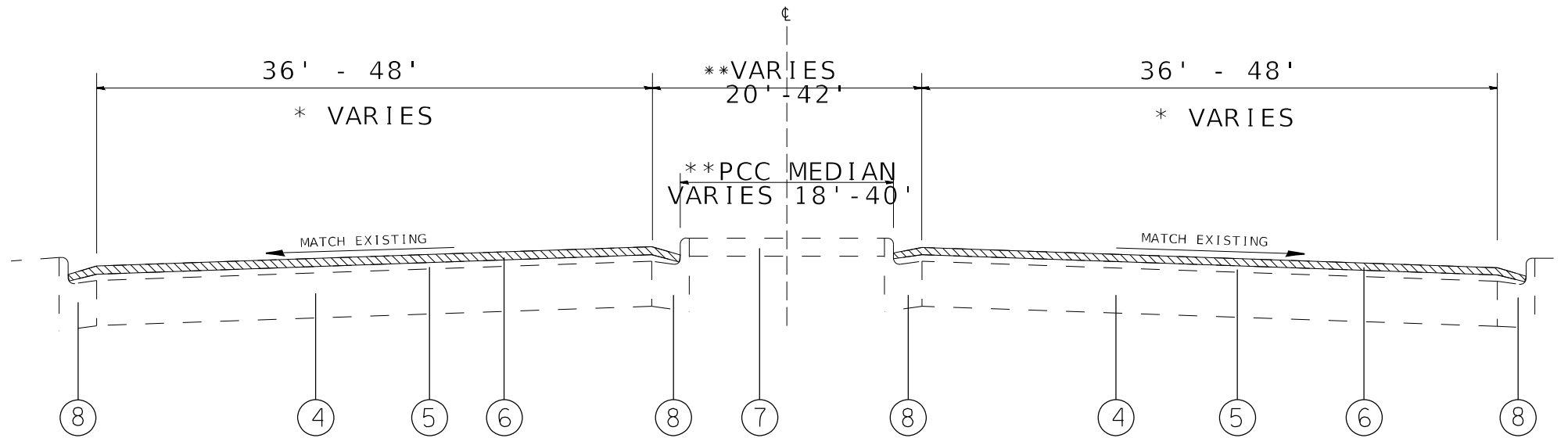
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NTS SHEET 2 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	6
			CONTRACT NO. 76P39	
			ILLINOIS FED. AID PROJECT	

IL 140/111

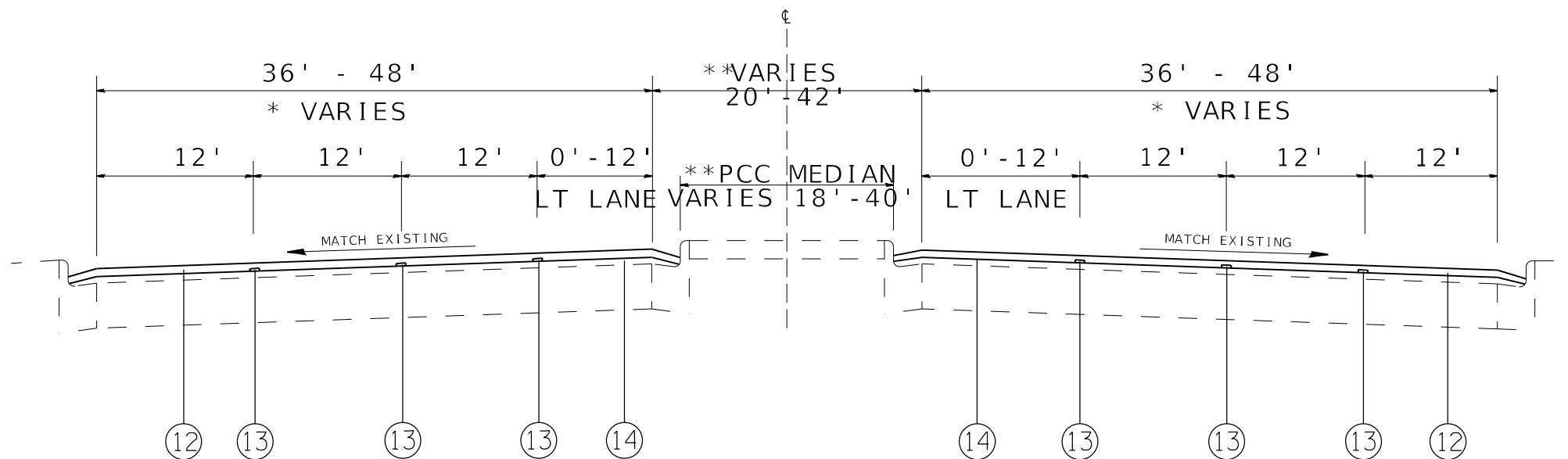


**EXISTING TYPICAL SECTION**

STA. 62+97 TO STA. 74+52  
(JUST EAST OF RAILROAD STRUCTURE TO START OF RIGHT-TURN LANE FOR SB HOMER ADAMS PARKWAY RAMP)

 HMA SURFACE REMOVAL 1 1/2"

\* LEFT-TURN LANE IN BOTH DIRECTIONS WITH TYPICAL SECTION  
\*\* LEFT-TURN LANES PRESENT AT VARIOUS LOCATIONS.



**PROPOSED TYPICAL SECTION**

STA. 62+97 TO STA. 74+52  
(JUST EAST OF RAILROAD STRUCTURE TO START OF RIGHT-TURN LANE FOR SB HOMER ADAMS PARKWAY RAMP)

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDIAN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

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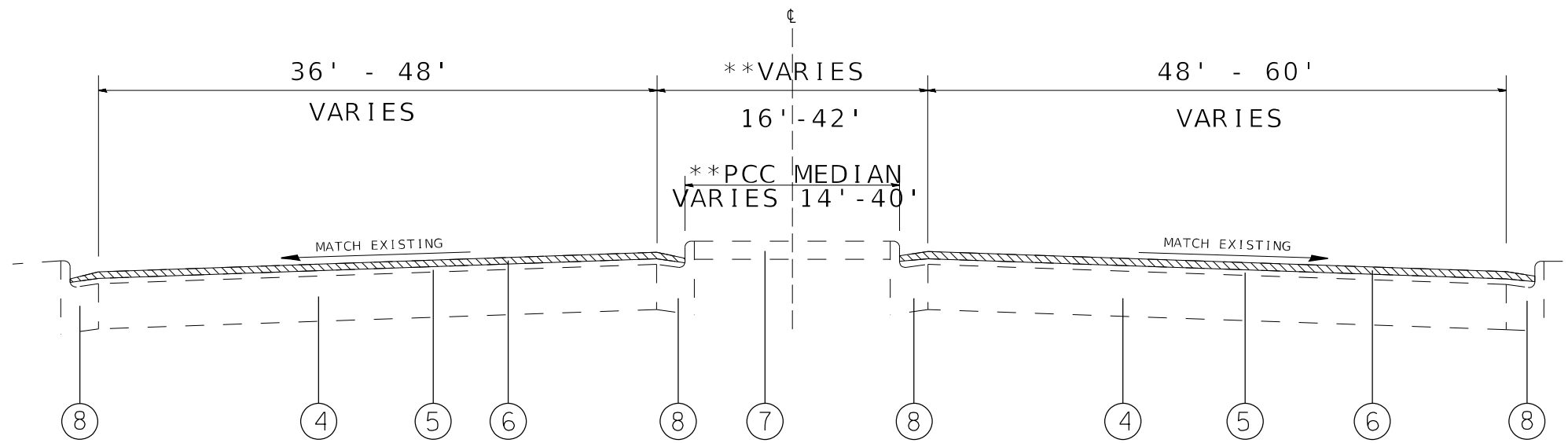
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NTS SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	7
			CONTRACT NO. 76P39	
		ILLINOIS FED. AID PROJECT		

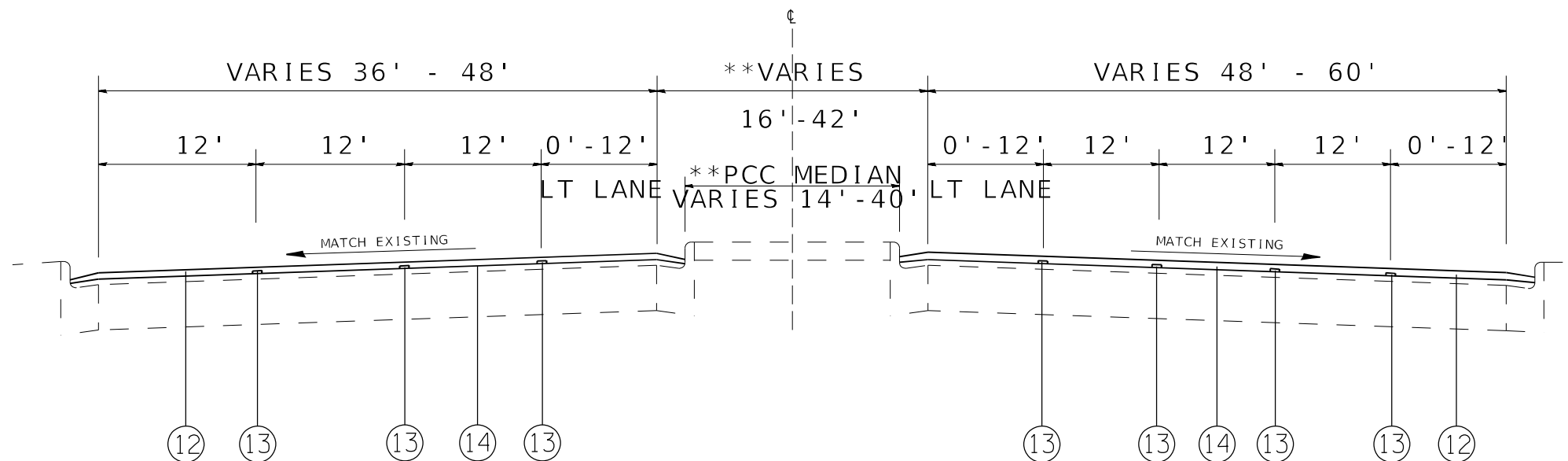


**EXISTING TYPICAL SECTION**

STA. 74+52 TO STA. 75+87  
(RIGHT-TURN LANE FOR SB IL 3/HOMER ADAMS PARKWAY RAMP)

 HMA SURFACE REMOVAL 1 1/2"

\* LEFT-TURN LANE IN BOTH DIRECTIONS WITH TYPICAL SECTION  
\*\* LEFT-TURN LANES PRESENT AT VARIOUS LOCATIONS.



**PROPOSED TYPICAL SECTION**

STA. 74+52 TO STA. 75+87  
(RIGHT-TURN LANE FOR SB IL 3/HOMER ADAMS PARKWAY RAMP)

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDAIN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

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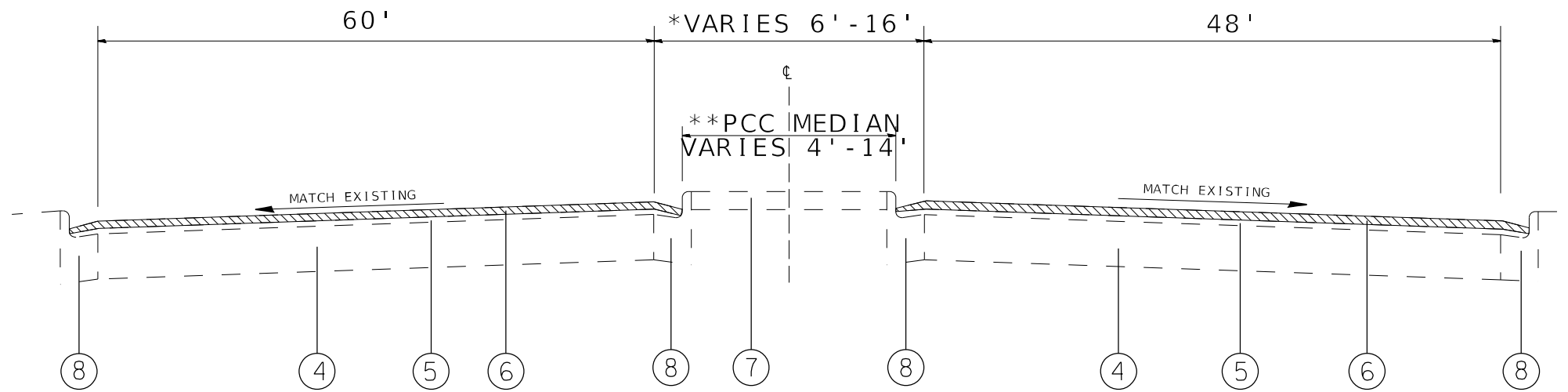
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NTS SHEET 4 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	8
			CONTRACT NO. 76P39	
ILLINOIS FED. AID PROJECT				

IL 140/111

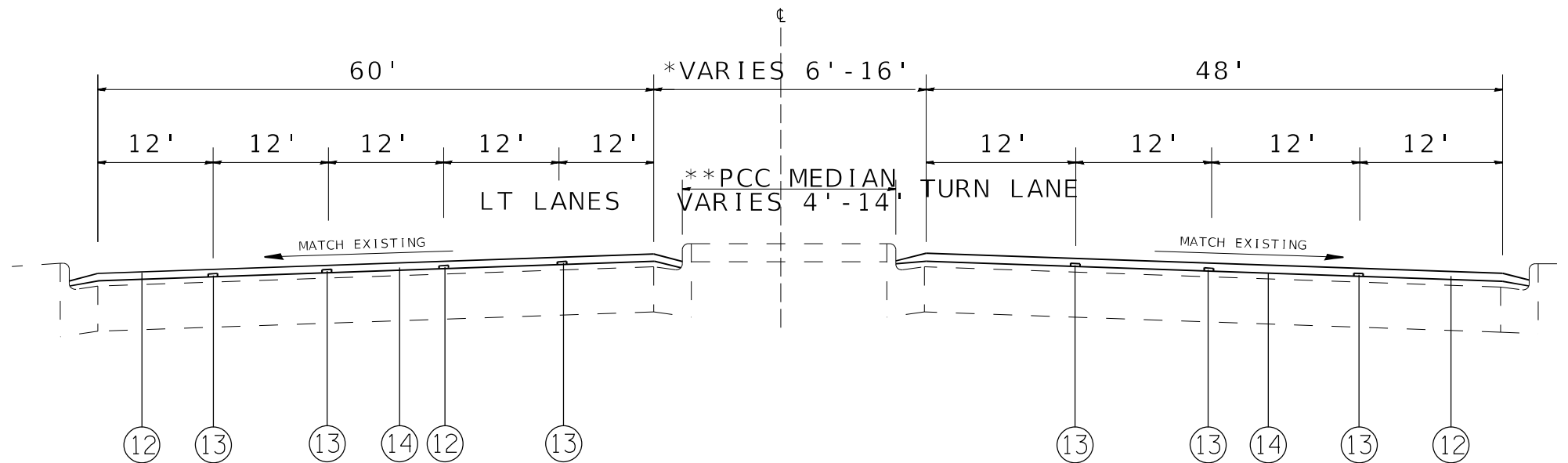


**EXISTING TYPICAL SECTION**

STA. 75+87 TO STA. 80+00  
(CHANNELIZATION UNDER IL 3/HOMER ADAMS PARKWAY STRUCTURE)

HMA SURFACE REMOVAL 1 1/2"

\* LEFT-TURN LANE IN BOTH DIRECTIONS WITH TYPICAL SECTION  
\*\* LEFT-TURN LANES PRESENT AT VARIOUS LOCATIONS.



**PROPOSED TYPICAL SECTION**

STA. 75+87 TO STA. 80+00  
(CHANNELIZATION UNDER IL 3/HOMER ADAMS PARKWAY STRUCTURE)

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDAIN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

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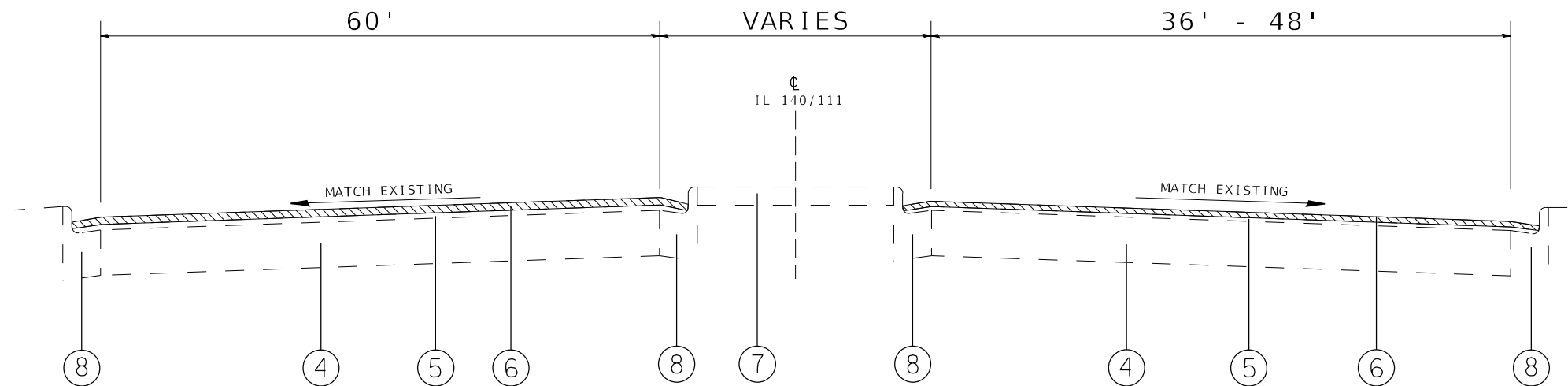
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PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NTS SHEET 5 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	9
			CONTRACT NO. 76P39	
			ILLINOIS FED. AID PROJECT	

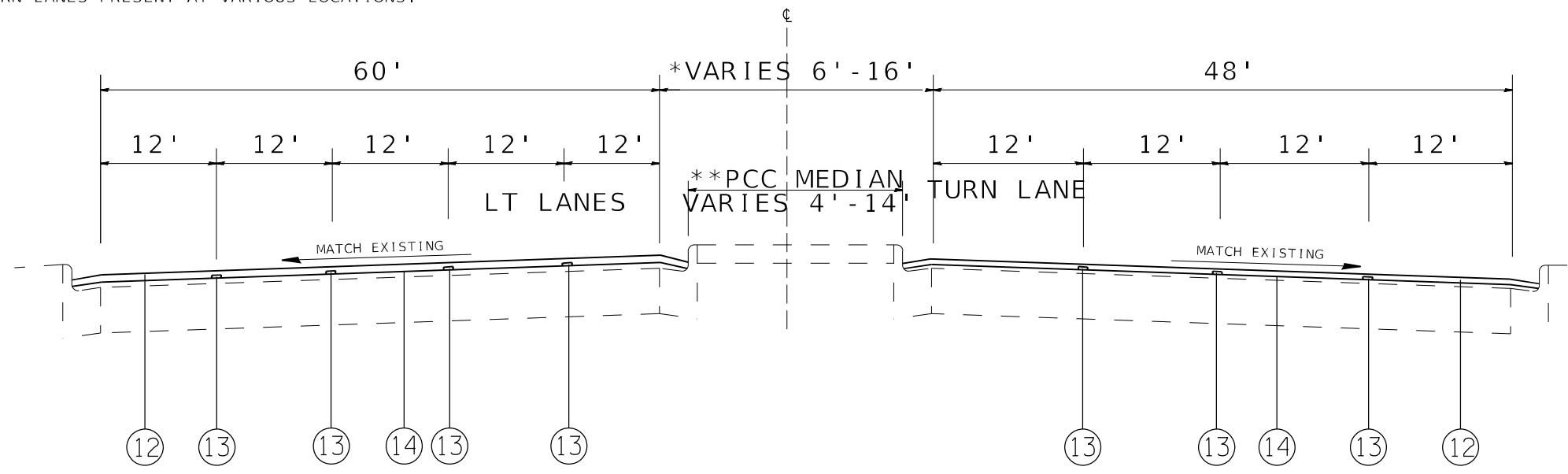


**EXISTING TYPICAL SECTION**

STA. 80+00 TO STA. 81+97  
 (CHANNELIZATION UNDER IL 3/HOMER ADAMS PARKWAY STRUCTURE TO EAST OF NORTHBOUND RAMP)

 HMA SURFACE REMOVAL 1 1/2"

\*\* LEFT-TURN LANE IN BOTH DIRECTIONS WITH TYPICAL SECTION  
 \*\* LEFT-TURN LANES PRESENT AT VARIOUS LOCATIONS.



**PROPOSED TYPICAL SECTION**

STA. 80+00 TO STA. 81+97  
 (CHANNELIZATION UNDER IL 3/HOMER ADAMS PARKWAY STRUCTURE TO EAST OF NORTHBOUND RAMP)

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDAIN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

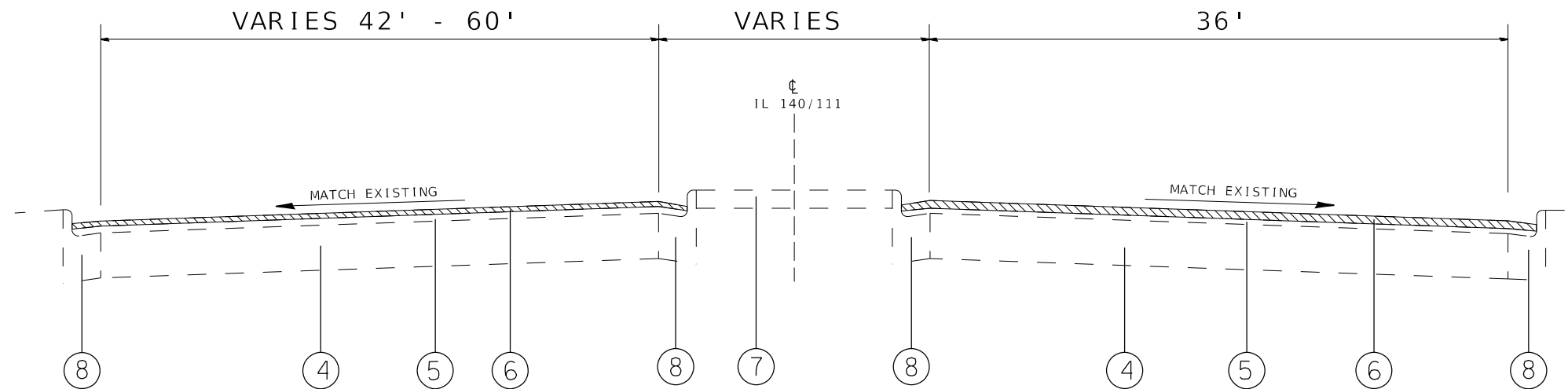
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE: NTS	SHEET 6 OF 14 SHEETS
STA.	TO STA.

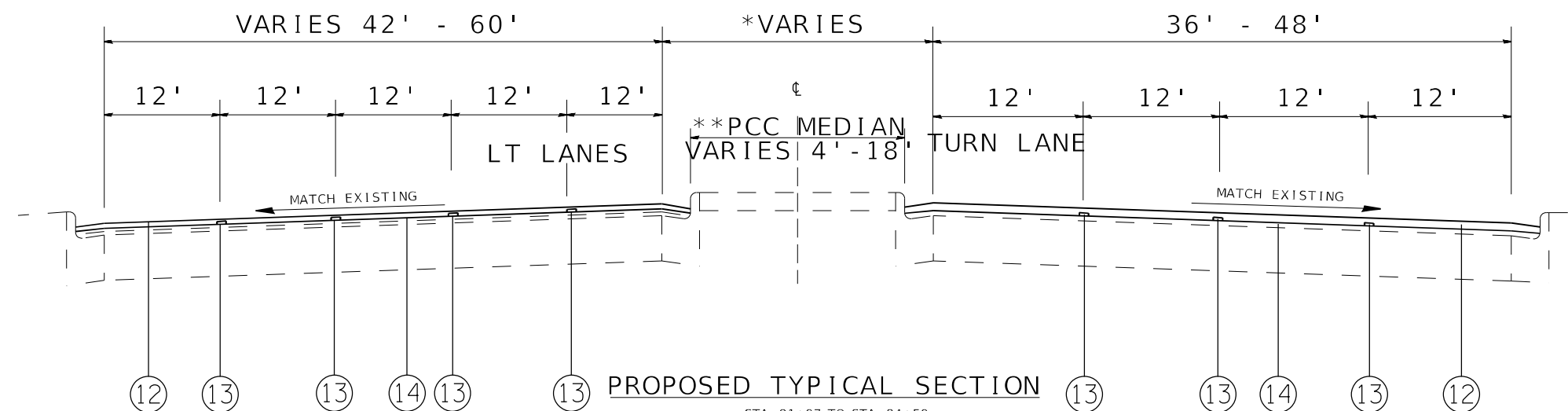
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	10
CONTRACT NO. 76P39				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION**

STA. 81+97 TO STA. 84+59  
STRUCTURE OMISSION STA. 84+59 TO STA. 86+48

 HMA SURFACE REMOVAL 1 1/2"



**PROPOSED TYPICAL SECTION**

STA. 81+97 TO STA. 84+59  
STRUCTURE OMISSION STA. 84+59 TO STA. 86+48

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDAIN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

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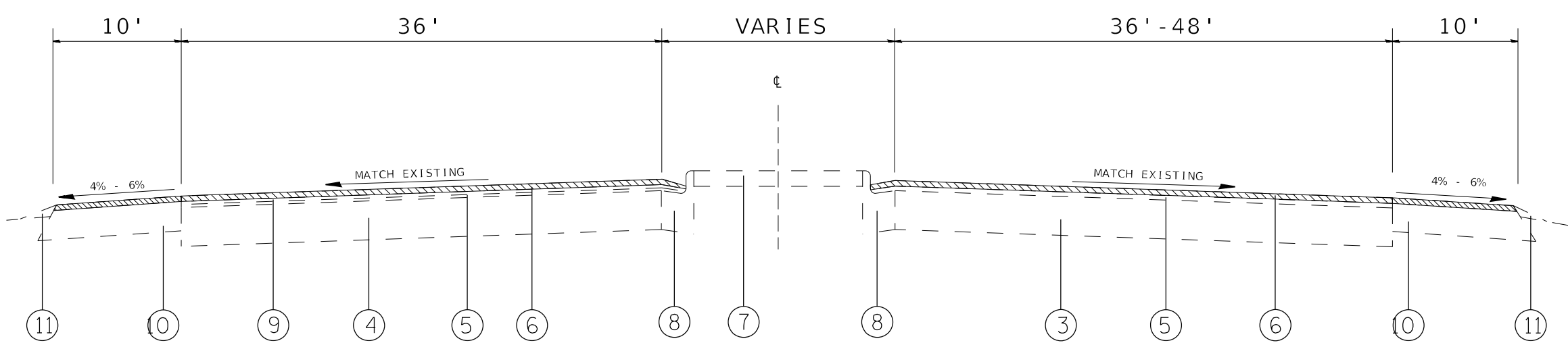
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NTS SHEET 7 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	11
CONTRACT NO. 76P39			ILLINOIS FED. AID PROJECT	

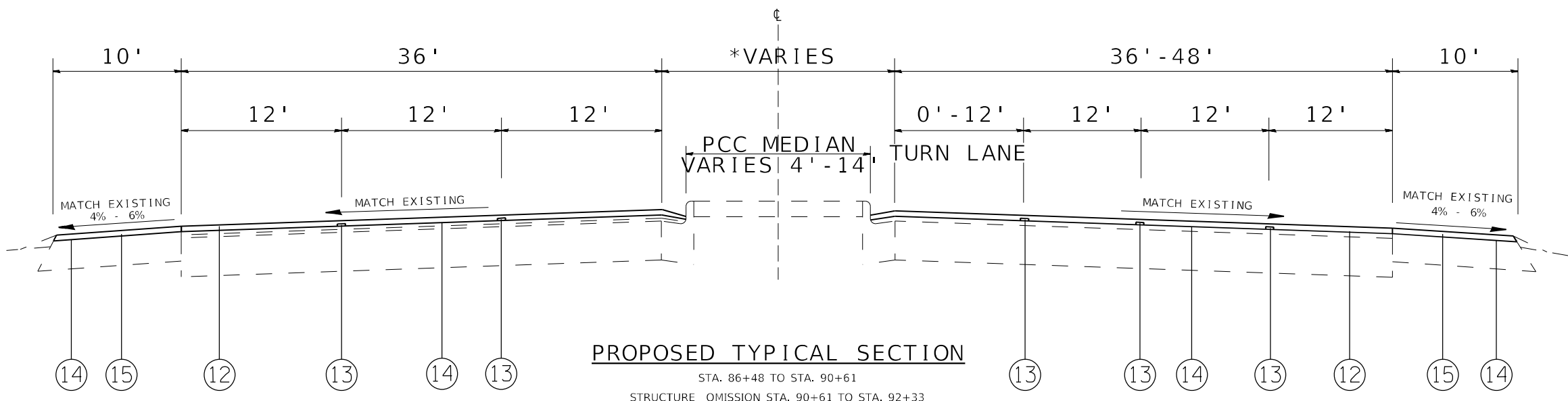




**EXISTING TYPICAL SECTION**

STA. 86+48 TO STA. 90+61  
 STRUCTURE OMISSION STA. 90+61 TO STA. 92+33  
 STA. 92+33 TO STA. 95+12

 HMA SURFACE REMOVAL 1 1/2"



**PROPOSED TYPICAL SECTION**

STA. 86+48 TO STA. 90+61  
 STRUCTURE OMISSION STA. 90+61 TO STA. 92+33  
 STA. 92+33 TO STA. 95+12

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDAIN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

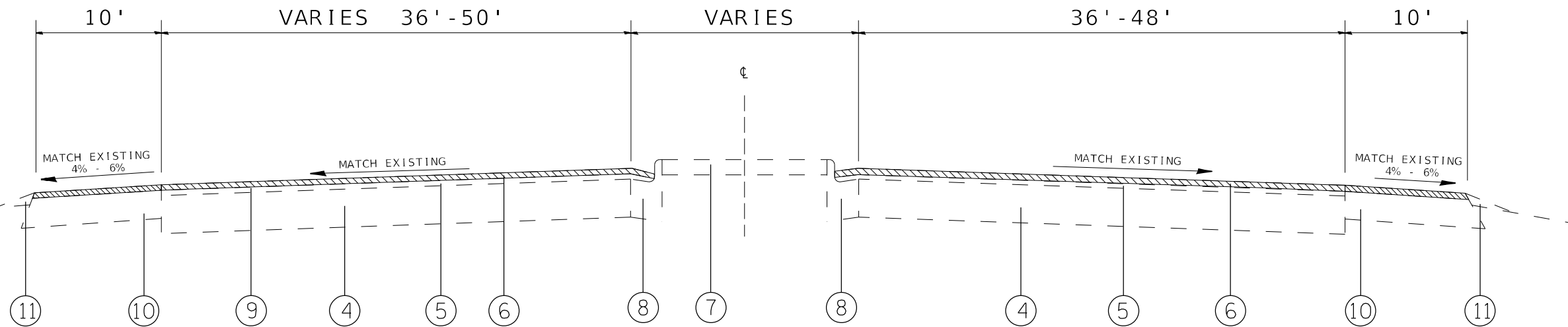
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PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE: NTS	SHEET 8 OF 14 SHEETS
STA.	TO STA.

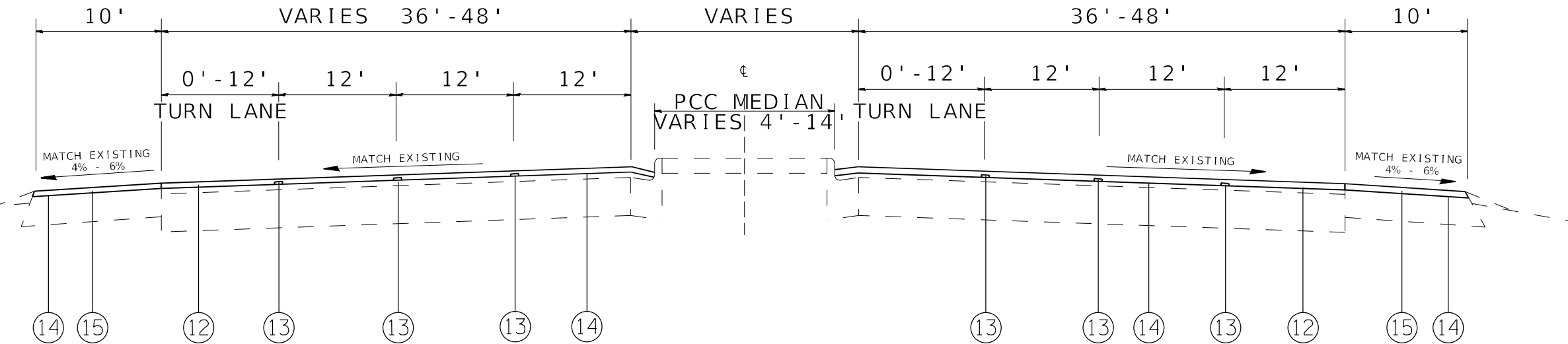
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785	(132-2,3,4,133-1)RS-1	MADISON	35	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76P39	



**EXISTING TYPICAL SECTION**

STA. 95+12 TO STA. 100+37 (FOSTERBURG RD.)  
 (EB PAVEMENT OMISSION: 96+88 TO 99+90 302')

HMA SURFACE REMOVAL 1 1/2"



**PROPOSED TYPICAL SECTION**

STA. 95+12 TO STA. 100+37 (FOSTERBURG RD.)  
 (EB PAVEMENT OMISSION: 96+88 TO 99+90 302')

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDAIN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

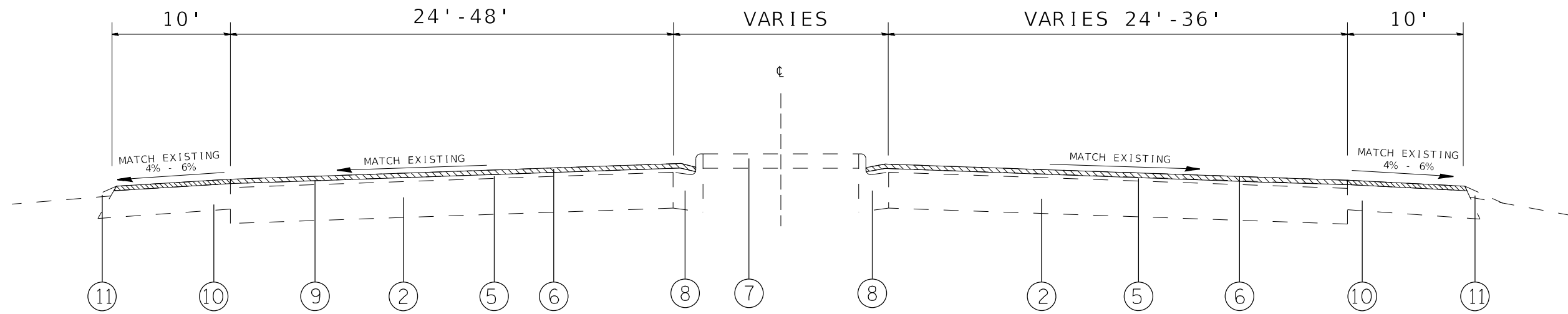
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NTS SHEET 9 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76P39				
ILLINOIS FED. AID PROJECT				

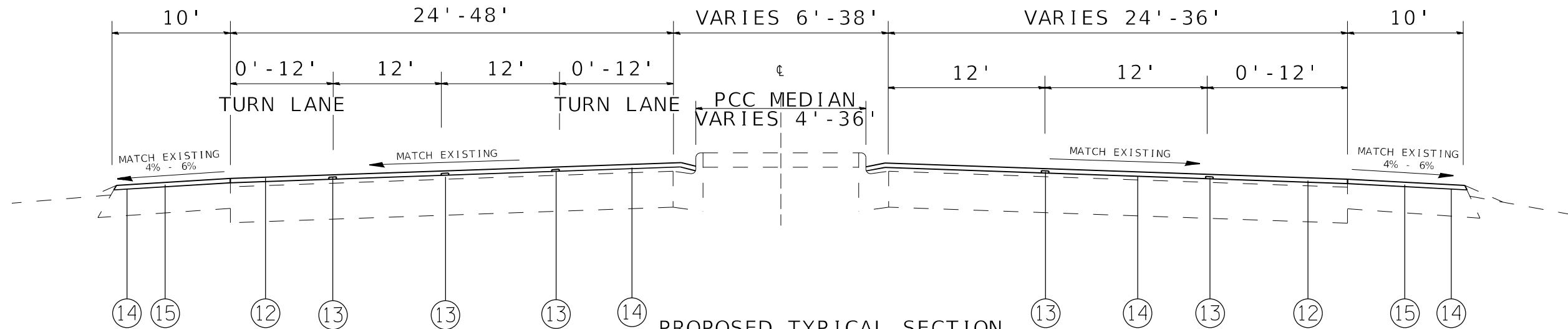
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 PLOT DATE: 10/21/2021



**EXISTING TYPICAL SECTION**

(FOSTERBURG RD.) STA. 100+37 TO STA. 114+28  
 (WB PAVEMENT OMISSION: 101+10 TO 104+12 302')

HMA SURFACE REMOVAL 1 1/2"



**PROPOSED TYPICAL SECTION**

(FOSTERBURG RD.) STA. 100+37 TO STA. 114+28  
 (WB PAVEMENT OMISSION: 101+10 TO 104+12 302')

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDAIN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

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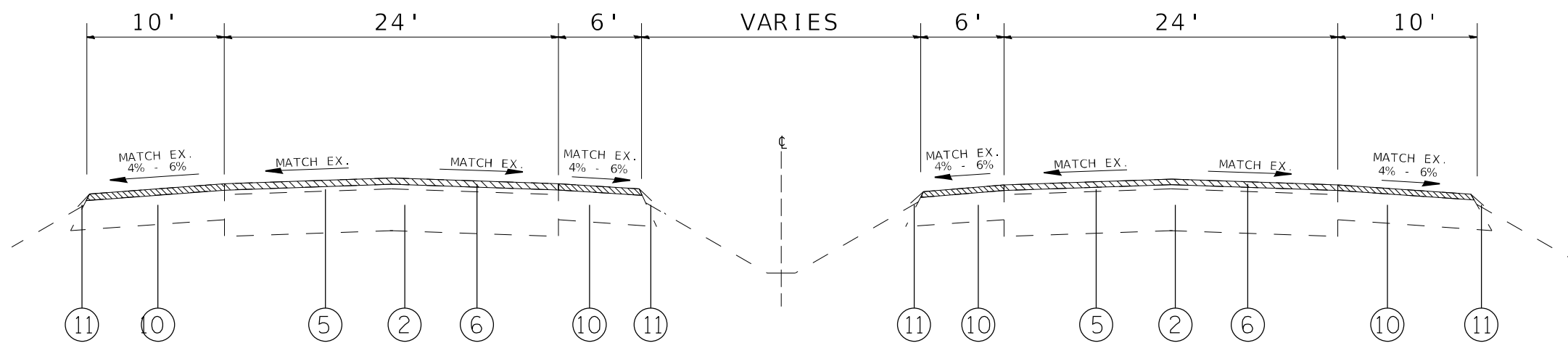
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NTS SHEET 10 OF 14 SHEETS STA. TO STA.

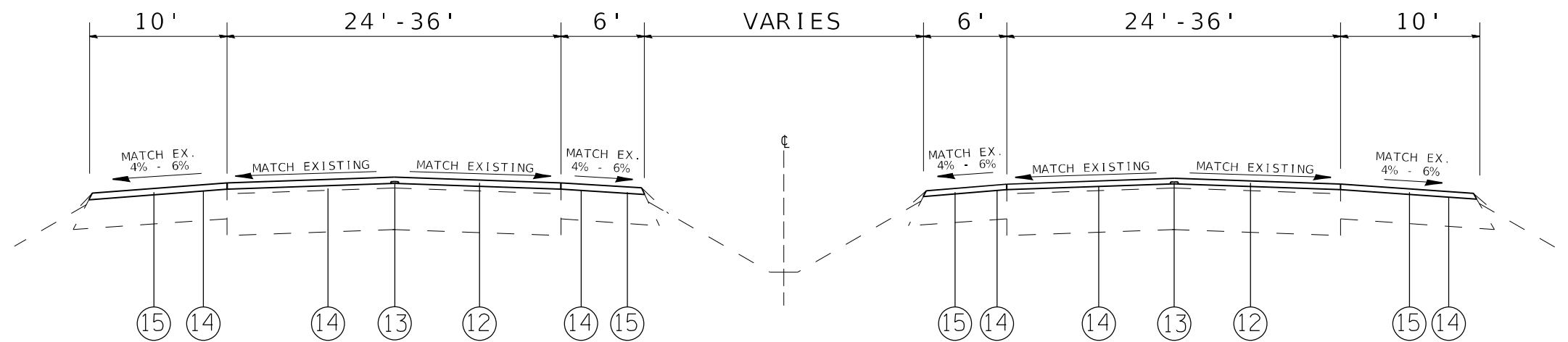
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785	(132-2,3,4,133-1)RS-1	MADISON	35	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76P39	



**EXISTING TYPICAL SECTION**

STA. 114+28 TO STA. 211+96  
 STRUCTURE OMISSION STA. 211+96 TO STA. 213+74  
 STA. 213+74 TO 217+79 (WOODRIVER AVE)

HMA SURFACE REMOVAL 1 1/2"



**PROPOSED TYPICAL SECTION**

STA. 114+28 TO STA. 211+96  
 STRUCTURE OMISSION STA. 211+96 TO STA. 213+74  
 STA. 213+74 TO 217+79 (WOODRIVER AVE)

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDAIN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

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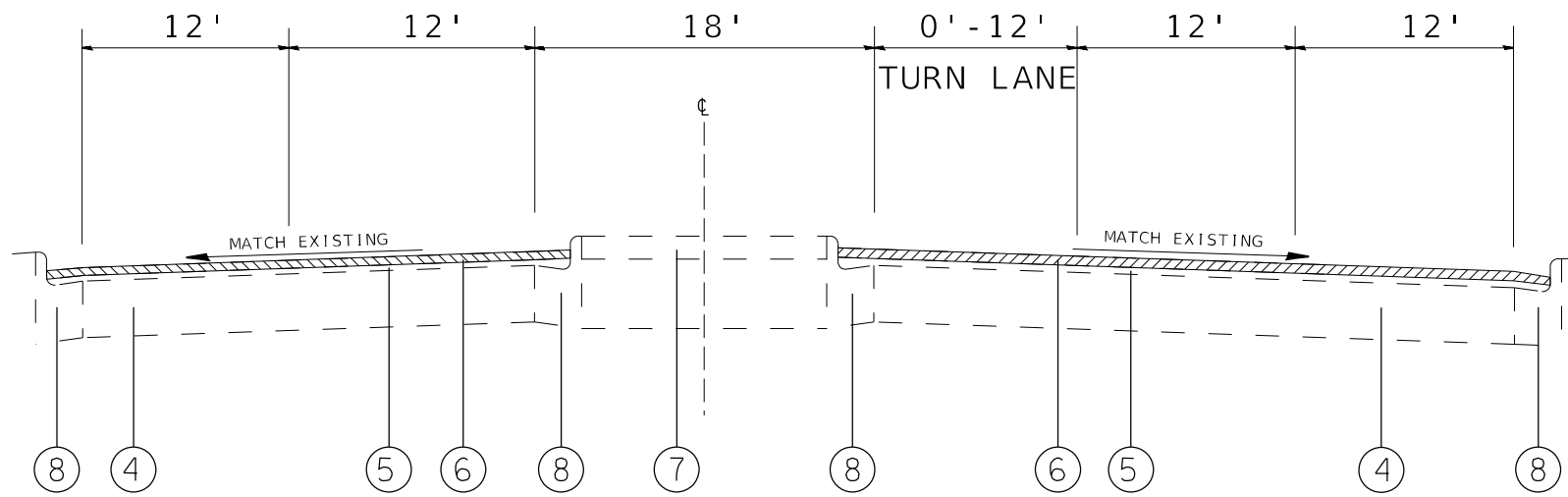
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

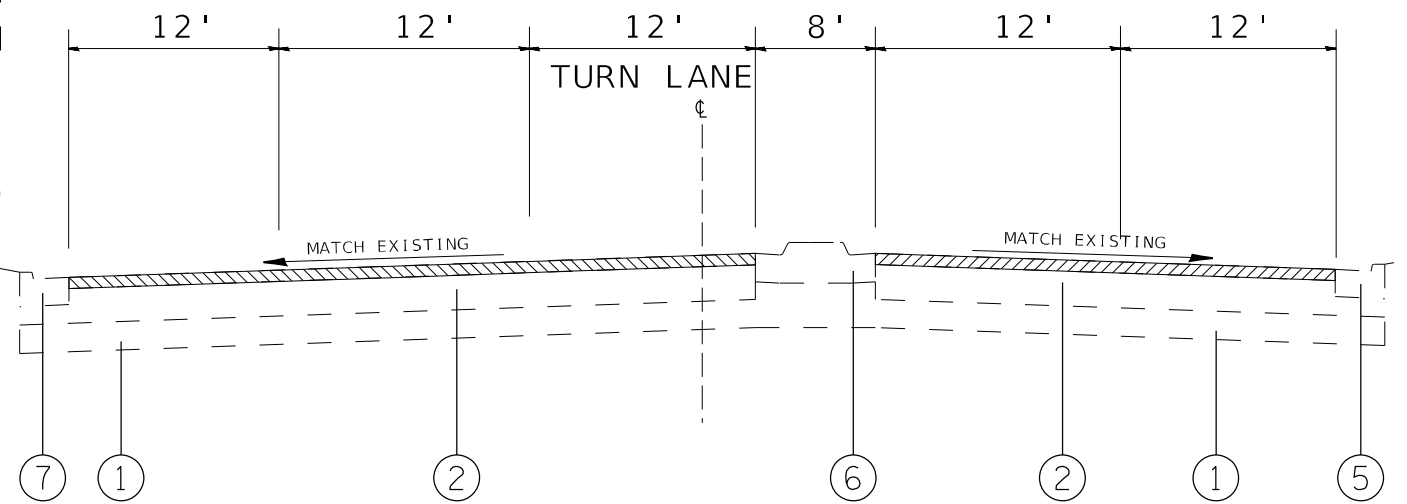
SCALE: NTS SHEET 11 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76P39			ILLINOIS FED. AID PROJECT	



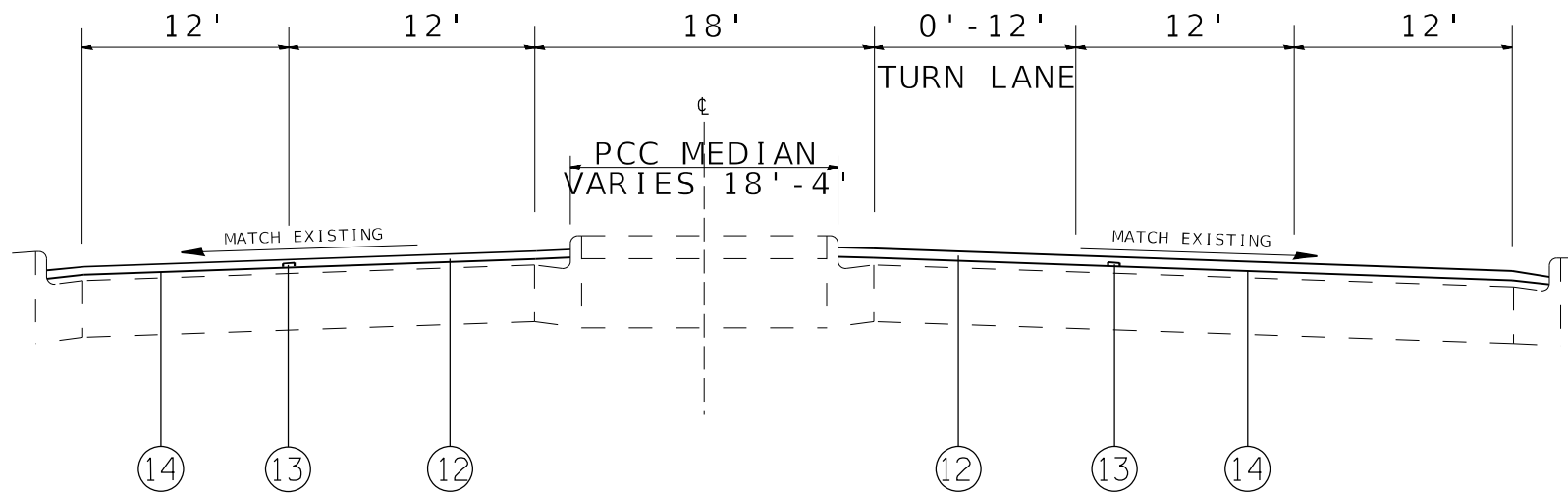
**EXISTING TYPICAL SECTION**

STA. 217+79 TO STA. 227+96  
(WOODRIVER AVE. TO FRANKLIN/THELMA AVE)



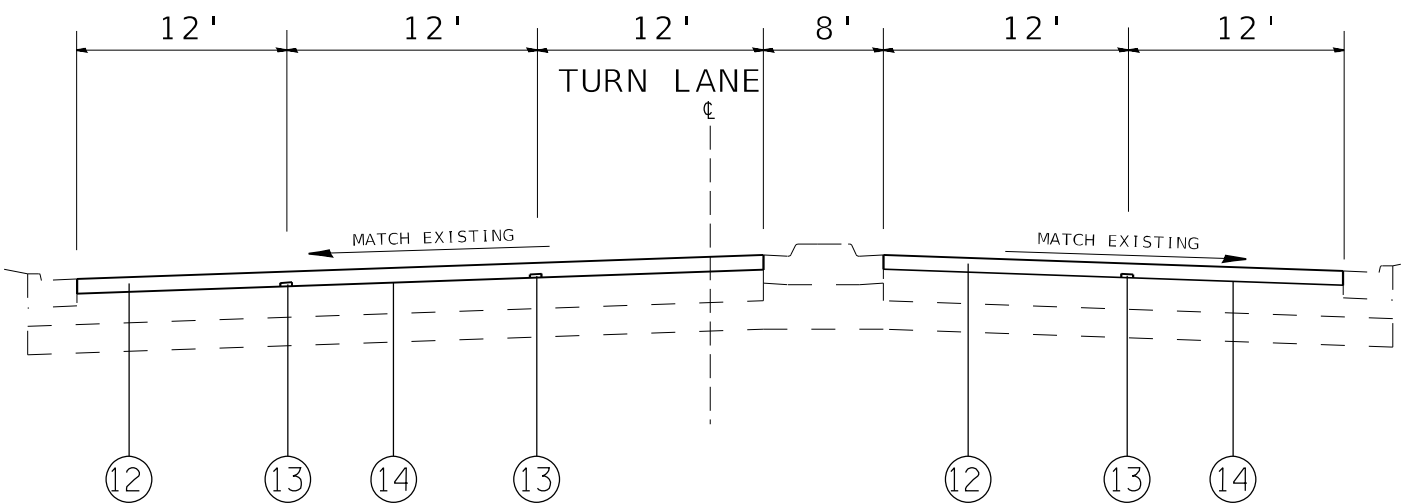
**EXISTING TYPICAL SECTION**

(FRANKLIN/THELMA AVE) STA. 227+96 TO STA. 230+64



**PROPOSED TYPICAL SECTION**

STA. 217+79 TO STA. 227+96  
(WOODRIVER AVE. TO FRANKLIN/THELMA AVE)



**PROPOSED TYPICAL SECTION**

(FRANKLIN/THELMA AVE) STA. 227+96 TO STA. 230+64

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDIAN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

HMA SURFACE REMOVAL 1 1/2"

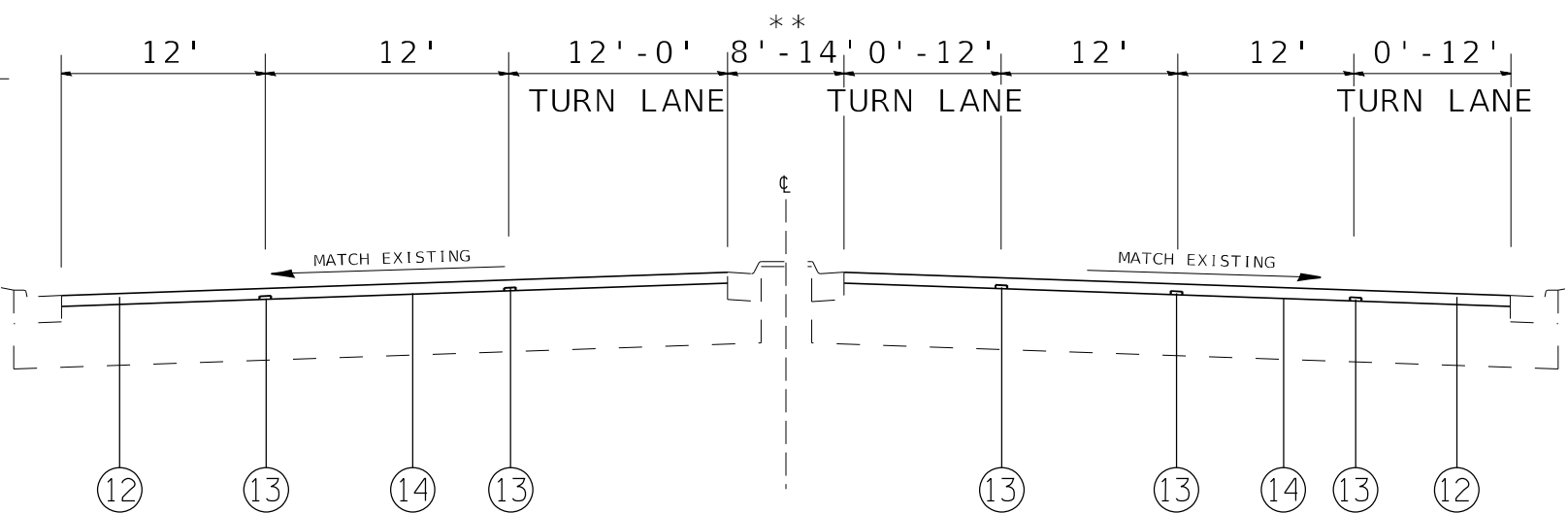
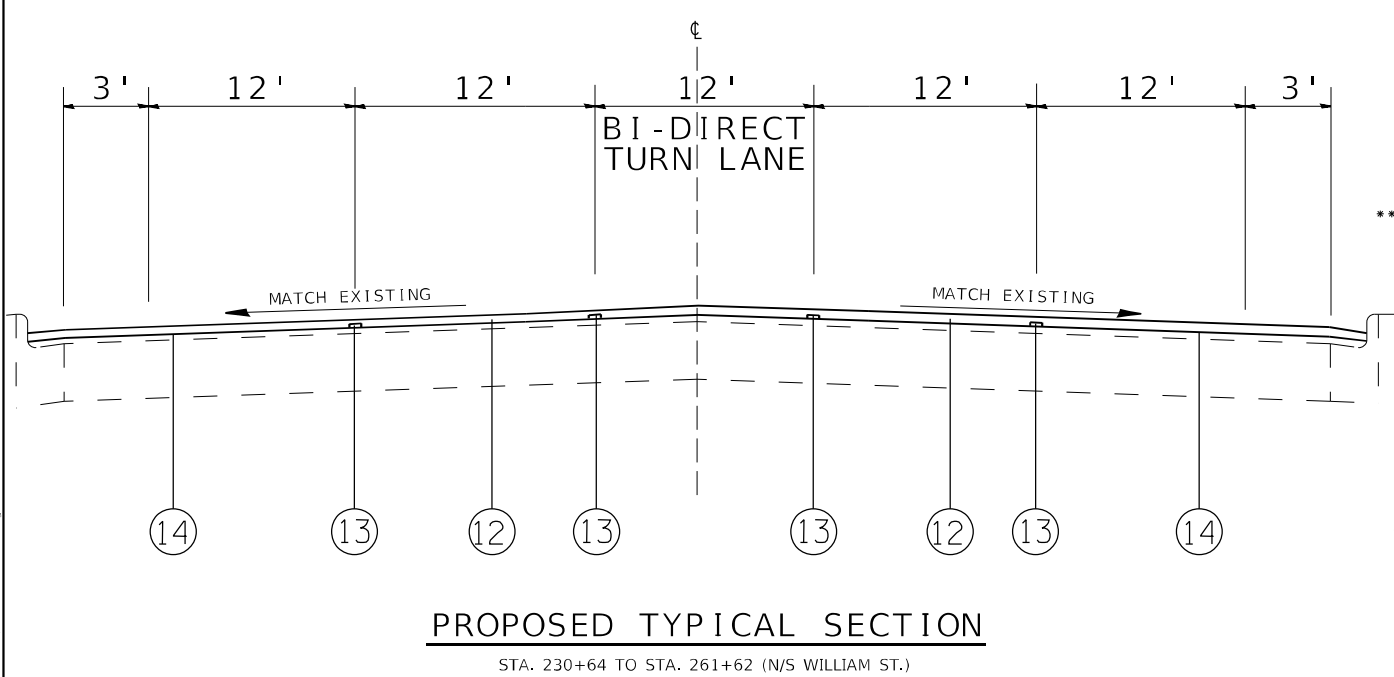
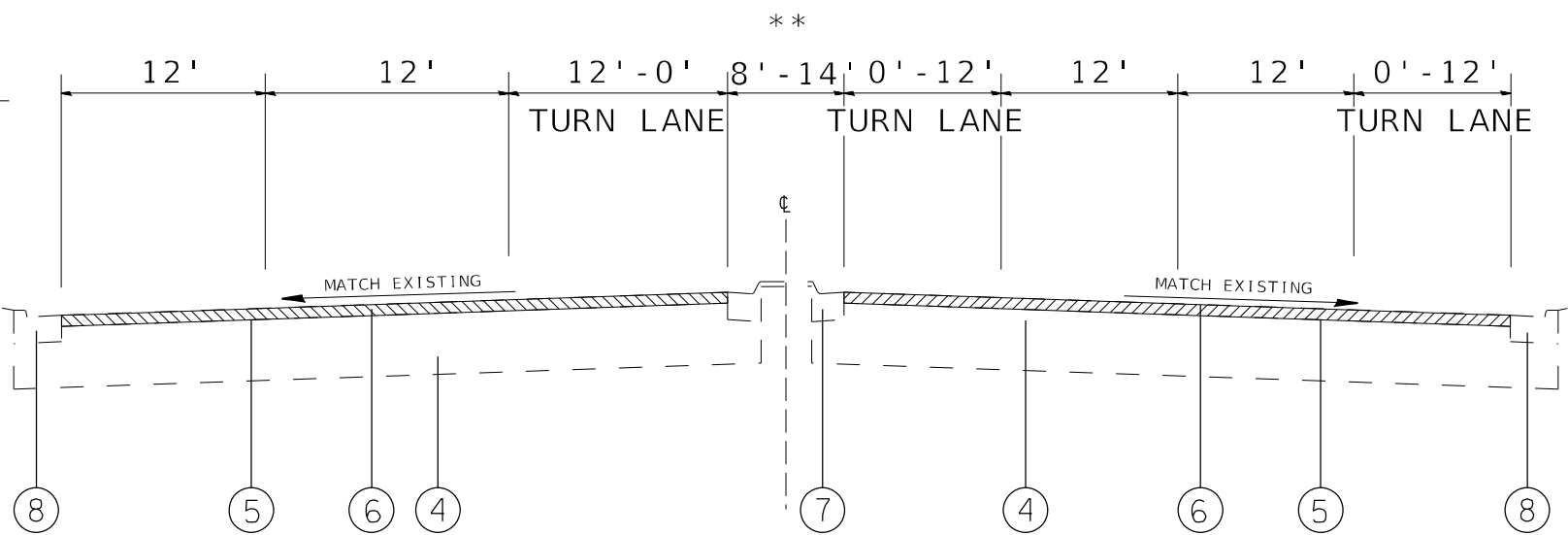
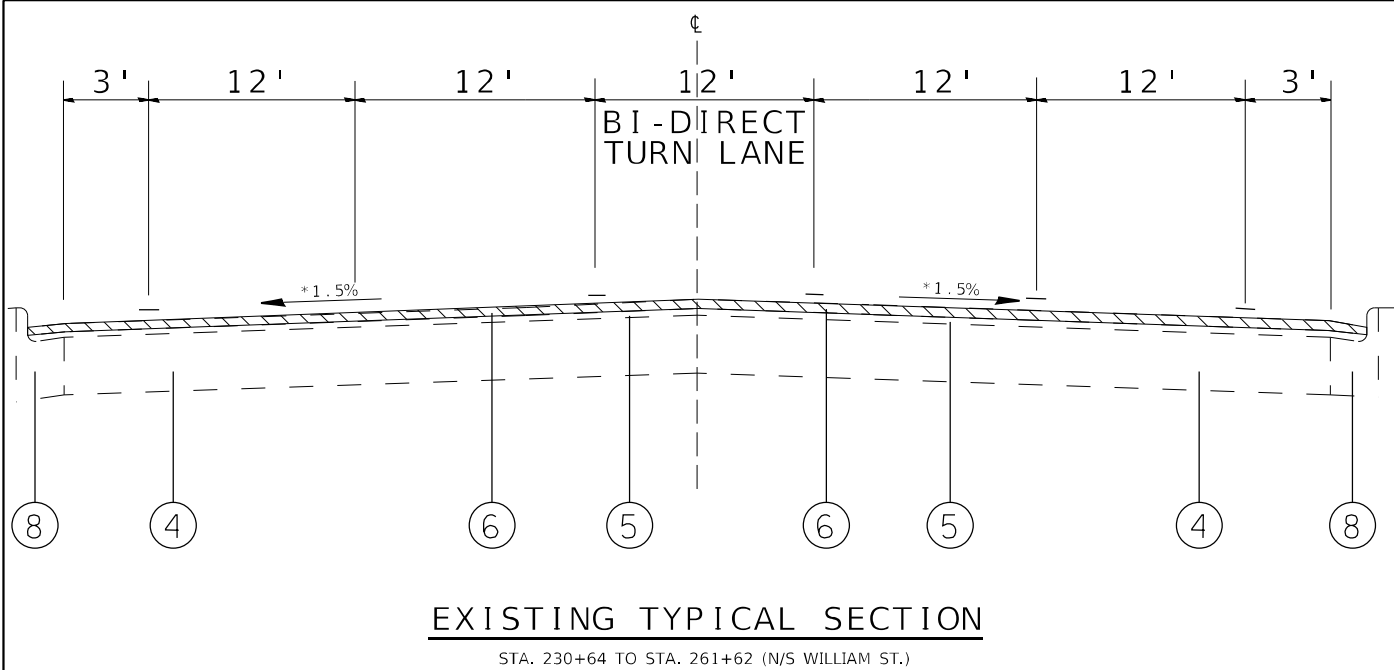
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NTS SHEET 12 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	16
CONTRACT NO. 76P39			ILLINOIS FED. AID PROJECT	

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 PROJECT: 0876P39



\*\* LEFT-TURN LANES PRESENT AT VARIOUS LOCATIONS.

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDAIN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

HMA SURFACE REMOVAL 1 1/2"

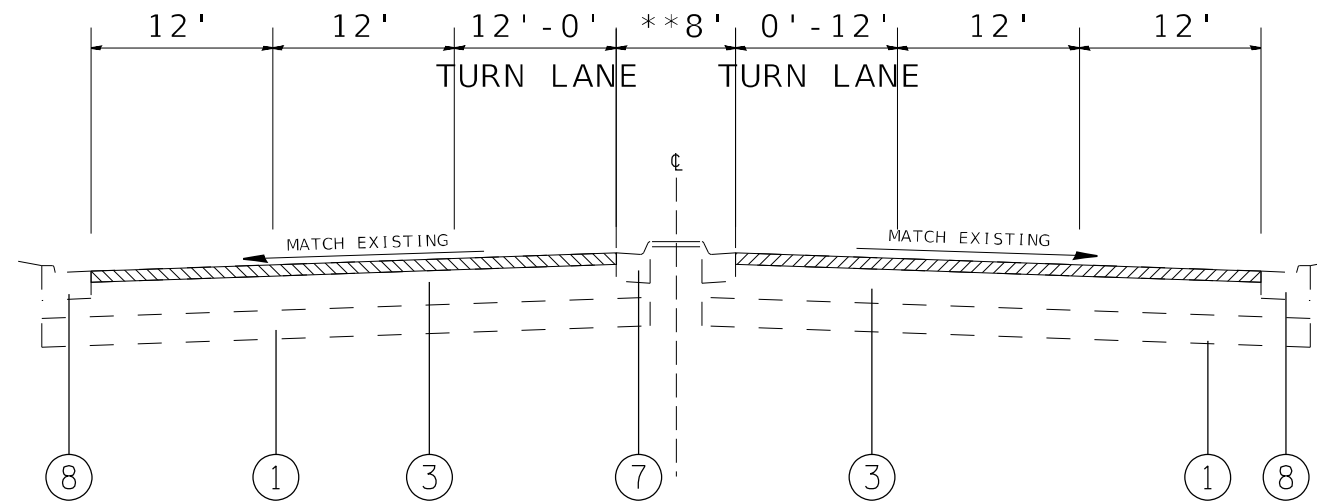
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		785	(132-2,3,4,133-1)RS-1	MADISON	35	17
SCALE: NTS	SHEET 13 OF 14 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	17
CONTRACT NO. 76P39				

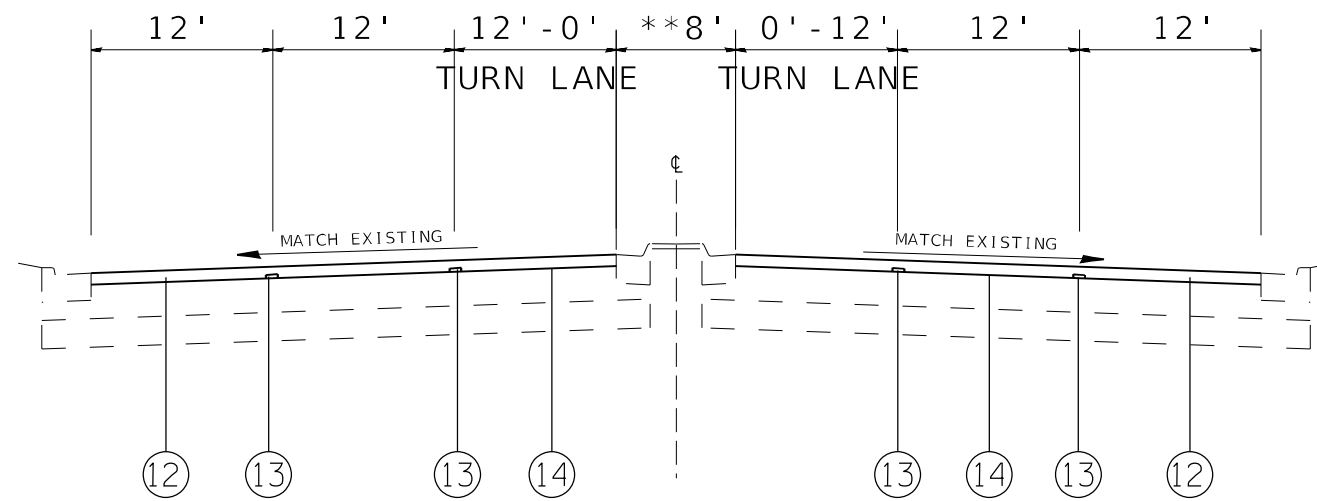


**EXISTING TYPICAL SECTION**

STA. 270+49 TO STA. 284+85

 HMA SURFACE REMOVAL 1 1/2"

\*\* LEFT-TURN LANES PRESENT AT VARIOUS LOCATIONS.



**PROPOSED TYPICAL SECTION**

STA. 270+49 TO STA. 284+85

**LEGEND**

- ① EXISTING LIME MODIFIED SOILS, 12"
- ② EXISTING CON. REINFORCED CONC. PAVEMENT 9"
- ③ EXISTING HMA CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 14"
- ④ EXISTING 10" PCC PAVEMENT
- ⑤ EXISTING LEVELING BINDER (MM), N90 (1")
- ⑥ EXISTING HMA SURFACE COURSE, MIX D, N90 (1 1/2")
- ⑦ EXISTING PCC MEDAIN
- ⑧ EXISTING PCC CURB & GUTTER
- ⑨ EXISTING HMA OVERLAY (2 1/2")
- ⑩ EXISTING HMA SHOULDER
- ⑪ EXISTING AGG. WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N90, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑮ PROPOSED HMA SHOULDER 1 1/2"

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PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NTS SHEET 14 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	18
CONTRACT NO. 76P39			ILLINOIS FED. AID PROJECT	



# RESURFACING SCHEDULE

STATION			DIMENSION		HMA SURFACE REMOVAL 1 1/2"		LONGITUDINAL JOINT SEALANT	BITUMINOUS MATERIALS (TACK COAT)		HMA SURFACE COURSE IL-9.5 "MIX D" N90	MATERIAL TRANSFER DEVICE	HMA SHOULDERS							
			LENGTH	WIDTH	SQ YD		FOOT	POUND	POUND	TON	TON	TON							
			FOOT	FOOT	SHOULDER	MAINLINE		SHOULDER	MAINLINE										
41+97	TO	46+54	457	94		4773.1	1371.0		2147.9	400.9	400.9								
46+54	TO	62+97	1643	84		15334.7	9858.0		6900.6	1288.1	1288.1								
62+97	TO	74+52	1155	60		7700.0	6930.0		3465.0	646.8	646.8								
74+52	TO	75+87	135	96		1440.0	945.0		648.0	121.0	121.0								
75+87	TO	80+00	413	108		4956.0	2891.0		2230.2	416.3	416.3								
80+00	TO	81+97	197	102		2232.7	1379.0		1004.7	187.5	187.5								
81+97	TO	84+59	262	87		2532.7	1572.0		1139.7	212.7	212.7								
84+59	TO	86+48	189																
BRIDGE OMISSION																			
86+48	TO	90+61	413	78	918	3579.3	2065.0	413.0	1610.7	300.7	300.7	77.1							
90+61	TO	92+33	172																
BRIDGE OMISSION																			
92+33	TO	95+12	279	78	620	2418.0	1395.0	279.0	1088.1	203.1	203.1	52.1							
95+12	TO	100+62	550	85	1222	5194.4	3300.0	550.0	2337.5	436.3	436.3	102.7							
100+62	TO	113+50	1288	66	2862	9445.3	6440.0	1288.0	4250.4	793.4	793.4	240.4							
113+50	TO	211+96	9846	48	35008	52512.0	19692.0	7876.8	23630.4	4411.0	4411.0	2940.7							
211+96	TO	213+74	178																
BRIDGE OMISSION																			
213+74	TO	217+79	405	48	1440	2160.0	810.0	324.0	972.0	181.4	181.4	121.0							
217+79	TO	227+96	1017	60		6780.0	2034.0		3051.0	569.5	569.5								
227+96	TO	230+64	268	60		1786.7	804.0		804.0	150.1	150.1								
230+64	TO	261+62	3098	60		20653.3	12392.0		9294.0	1734.9	1734.9								
261+62	TO	270+49	887	84		8278.7	4435.0		7450.8	695.4	695.4								
270+49	TO	284+85	1436	72		11488.0	5744.0		10339.2	965.0	965.0								
ROUTE 3 RAMP APRONS											0.0								
RAMP A			70			511.7			230.3	43.0	43.0								
RAMP B			60			516.3			232.4	43.4	43.4								
RAMP C			72			520.0			234.0	43.7	43.7								
RAMP D			70			495.9			223.2	41.7	41.7								
											0.0								
I - 255 RAMP APRONS											0.0								
RAMP A			90			981.6			441.7	82.5	82.5								
RAMP B			90			1155.1			519.8	97.0	97.0								
RAMP C			90			1012.6			455.7	85.1	85.1								
RAMP D			90			1262.4			568.1	106.0	106.0								
SUB - TOTAL											42070	169720.4		84057	10731	85269.2	14257	14257	3534
TOTAL :											211791				96000				

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PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4, 133-1)RS-1	MADISON	35	19
CONTRACT NO. 76P39				
ILLINOIS FED. AID PROJECT				

# TEMPORARY RAMPS / INCIDENTAL

LOCATION		WIDTH	LENGTH	TEMPORARY RAMPS	INCIDENTAL HMA SURFACING		BITUMINOUS MATERIAL (TACK COAT)
DESCRIPTION	STATION	(FT)	(FT)	(SY)	WIDTH (FT)	(TON)	(POUND)
BEGINNING	41+97	38	5	21.1			
EVERGREEN AVE	42+38	40	1.5	6.7			
PARK AVE	46+25	66	1.5	11.0			
WORDEN AVE	50+00	45	1.5	7.5			
WORDEN AVE	50+00	68	1.5	11.3			
KENDALL AVE	54+16	76	1.5	12.7			
JACKSON ST.	54+16	70	1.5	11.7			
N. RODGERS AVE	68+23	102	1.5	17.0			
CROSSROADS CT.	68+23	80	1.5	13.3			
SB RT 3 ENT. APRON	76+16	40	5	22.2			
NB RT 3 EXT. APRON	76+16	42	5	23.3			
NB RT 3 ENT. APRON	80+07	46	5	25.6			
NB RT 3 EXT. APRON	80+07	40	5	22.2			
CREST DR.	84+19	70	1.5	11.7	10.0	6.5	5.3
AUBIN AVE	84+19	70	1.5	11.7	10.0	6.5	5.3
060-0199 OMISSION	84+59	76	5	42.2			
060-0199 OMISSION	86+48	76	5	42.2			
060-0091 OMISSION	90+61	76	5	42.2			
060-0091 OMISSION	92+33	76	5	42.2			
COLLEGE AVE	100+62	202	1.5	33.7	10.0	18.9	15.2
FOSTERBURGH RD.	100+62	74	1.5	12.3	10.0	6.9	5.6
ALTON MENTAL HOSPITAL	119+25	104	1.5	17.3	10.0	9.7	7.8
PARK RD.	145+80	130	1.5	21.7	10.0	12.1	9.8
TAVERNIER WAY	145+80	130	1.5	21.7	10.0	12.1	9.8
POWDER MILL RD.	173+44	84	1.5	14.0	10.0	7.8	6.3
STANLEY RD.	200+14	70	1.5	11.7	10.0	6.5	5.3
S. STANLEY RD.	200+14	40	1.5	6.7	10.0	3.7	3.0
060-0187 OMISSION EB	211+96	42	5	23.3			
060-0187 OMISSION EB	213+74	42	5	23.3			
060-0190 OMISSION WB	211+96	42	5	23.3			
060-0190 OMISSION WB	213+74	42	5	23.3			
WOODRIVER AVE	217+79	78	1.5	13.0	10.0	7.3	5.9
THELMA AVE	227+96	190	1.5	31.7			
FRANKLIN AVE	227+96	50	1.5	8.3			
CIRCLE DR.	232+84	34	1.5	5.7			
CIRCLE DR.	239+18	34	1.5	5.7			
NEUNABER ST.	240+95	34	1.5	5.7			
PROSPECT ST.	245+95	34	1.5	5.7			
HARVEL CT.	249+72	36	1.5	6.0			
COTTAGE AVE	254+87	36	1.5	6.0			
LENORA SR.	254+87	36	1.5	6.0			
RAY ST.	257+20	34	1.5	5.7			
N. WILLIAMS ST.	261+62	78	1.5	13.0			
S. WILLIAMS ST.	261+62	78	1.5	13.0			
SB I-255 ENT. APRON	269+31	24	5	13.3			
NB I-255 EXT. APRON	269+31	36	5	20.0			
NB I-255 ENT. APRON	271+51	24	5	13.3			
NB I-255 EXT. APRON	271+52	40	5	22.2			
ENDING	284+85	68	5	37.8			
<b>TOTAL :</b>				<b>862</b>	<b>98</b>		<b>11</b>

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PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4, 133-1)RS-1	MADISON	35	20
CONTRACT NO. 76P39				
ILLINOIS FED. AID PROJECT				

# THERMOPLASTIC PAVEMENT MARKING SCHEDULE

STATION	LENGTH FOOT	THERMOPLASTIC & TEMPORARY								24" WHITE & TEMPORARY STOP BAR	LETTER & SYMBOLS / TEMPORARY SQFT	SHORT TERM PAVEMENT MARKING FOOT	SHORT TERM PAVEMENT MARKING REMOVAL SQFT	TEMPORARY PAVEMENT MARKING REMOVAL SQFT	RAISED REFLECTIVE PAVEMENT MARKERS		RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH	CURB REFLECTORS EACH
		4" WHITE			4" YELLOW			8" WHITE LINE FOOT	12" WHITE DIAGONALS FOOT						2WAY AMBER EACH	CRYSTAL EACH		
		EDGE LINE FOOT	SKIP-DASH FOOT	LANE LINE FOOT	SKIP-DASH FOOT	LANE LINE FOOT												
41+97 TO 46+54	457	914		105		1678					21	4	899	14		14	21	
46+54 TO 62+97	1643	3286	1643	811		3958		86		156.0	491	82	3475		55	55	198	
62+97 TO 74+52	1155	2310	1155	673		1490			104	78.0	366	61	2162		528	528	74	
74+52 TO 75+87	135	270	135						168	46.8	27	5	518					
75+87 TO 80+00	413	826	516	500			400	105		46.8	203	34	1033		3	3	28	
80+00 TO 81+97	197	394	197				471	50	150	62.4	39	7	923		4	4	39	
81+97 TO 84+59	262	524	262	324		1344		87	50	31.6	117	20	1037		8	8		
84+59 TO 86+48	189									BRIDGE OMISSION								51
86+48 TO 90+61	413	826	413								149	25	413		6	6		
90+61 TO 92+33	172									BRIDGE OMISSION								33
92+33 TO 95+12	279	558	279			3140					100	17	1326		5	5	33	
95+12 TO 100+62	550	1100	550	300						78.0	258	43	728				33	
100+62 TO 113+50	1288	2576	644	250				113	98	78.0	385	64	1544		908	908	121	
113+50 TO 211+96	9846	19692	4923	1488		5870	2677	970	208	234.0	2858	476	14062		6	6	21	
211+96 TO 213+74	178									BRIDGE OMISSION								26
213+74 TO 217+79	405	810	203								105	18	338				11	
217+79 TO 227+96	1017	2034	509	239		2340				78.0	150	25	1785				90	
227+96 TO 230+64	268	536	134	250			176		113	77.2	77	13	727		12	12	26	
230+64 TO 261+62	3098	6196	1549		1530	6170				109.2	616	103	5258	153		153	74	
261+62 TO 270+49	887	1774	444	1036		1472	719		176	234.0	296	49	2641		12	12	85	
270+49 TO 284+85	1436	2872	718	326		2440	762			93.6	209	35	2720		77	77	37	
SUB TOTAL :		47498	14273	6302	1530	29902								167	1625			
TOTAL :				99505			5205	1411	1067	1404	5772	962	37080		1792	1792	1001	

## CLASS B PATCHING 13"

STATION	LENGTH	WIDTH	CLASS B PATCHING TY-III	SAW CUTS	DOWEL BARS 1 1/2"	WELDED WIRE REINFORCEMENT
WESTBOUND	FT	FT	SQ YDS	FT	EACH	SQ YDS
42+00	12	12	16	60	20	16
42+37	12	12	16	60	20	16
69+12	12	12	16	60	20	16
70+95	12	12	16	60	20	16
80+54	12	12	16	60	20	16
SUB TOTAL :			80	300	100	80
PROJECTED FAILURES 10%			6	30	10	6
TOTAL :			86	330	110	86

## CLASS A PATCHING 13"

STATION	LENGTH	WIDTH	CLASS A PATCHING TY-III	SAW CUTTING	WELDED WIRE REINFORCEMENT
WB	FT	FT	SQ YDS	FT	SQ YDS
198+50	16	12	21	64	21
217+79	12	12	16	60	16
218+18	12	12	16	60	16
250+18	12	12	16	60	16
252+80	12	12	16	60	16
SUB TOTAL			85	304	85
PROJECTED FAILURES 10%			9	30	9
TOTAL			94	334	94

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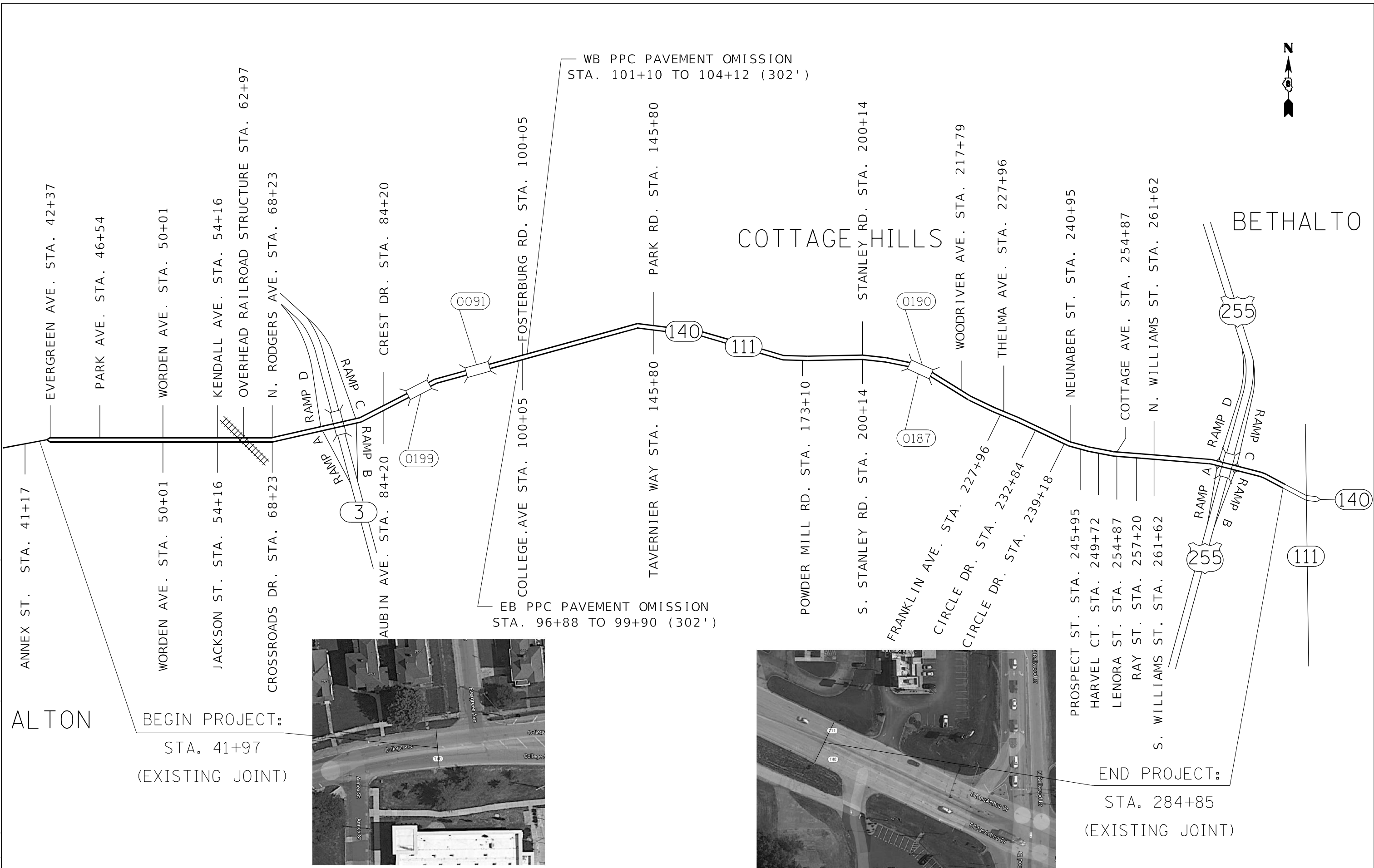
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES					
SCALE: NTS	SHEET 3	OF 3	SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4, 133-1)RS-1	MADISON	35	21
CONTRACT NO. 76P39				
ILLINOIS FED. AID PROJECT				

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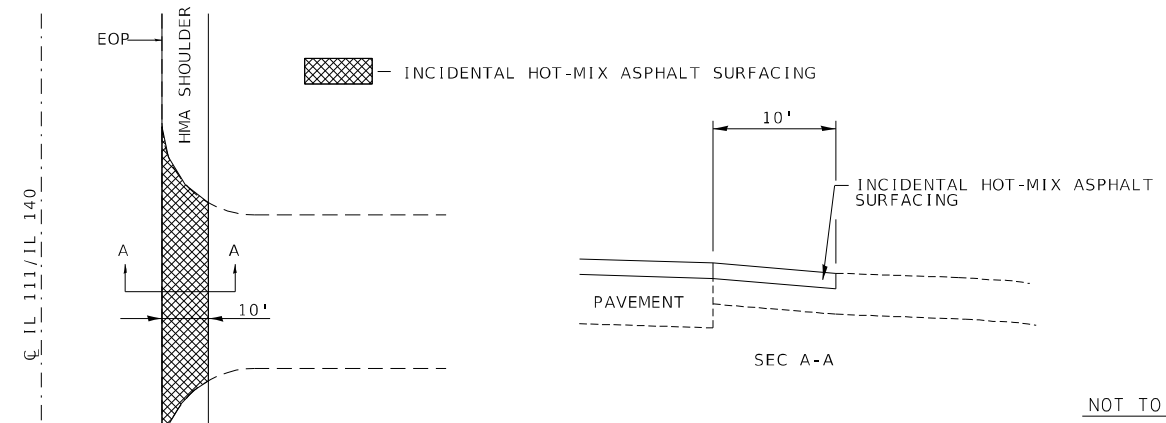
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PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP**

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

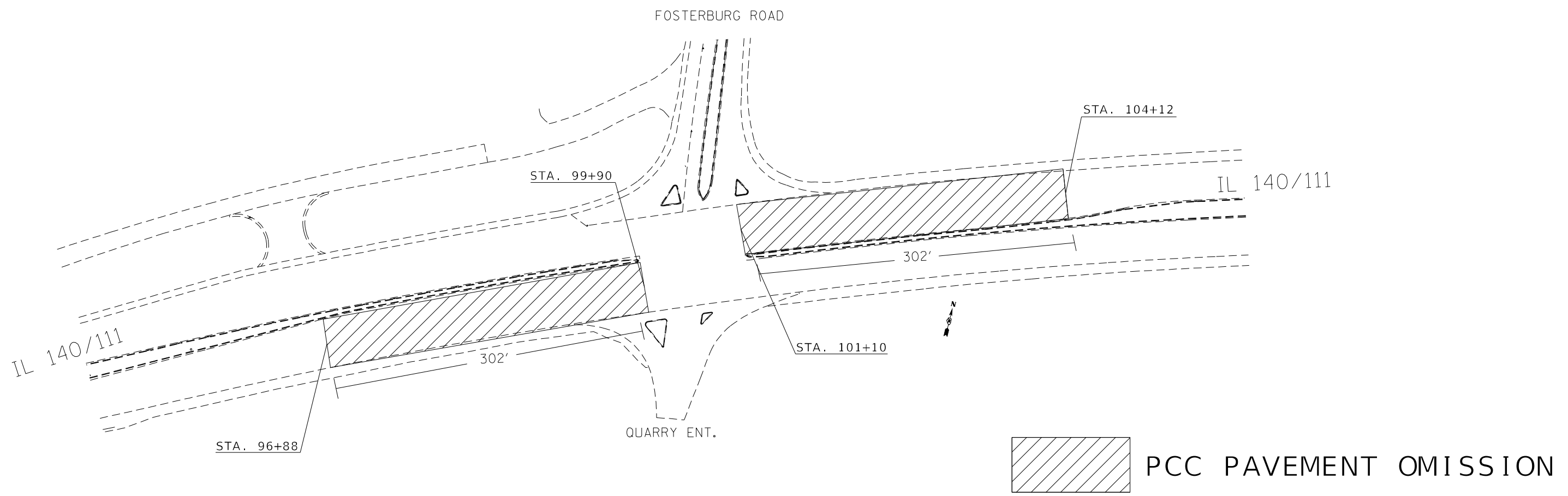
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4, 133-1)RS-1	MADISON	35	22
CONTRACT NO. 76P39			ILLINOIS FED. AID PROJECT	



**SIDEROADS DETAIL**

- CREST DR./AUBIN AVE. STA. 84+19
- COLLEGE AVE/FOSTERBURGH RD. STA. 100+62
- ALTON MENTAL HOSPITAL STA. 119+25
- PARK RD./TAVERNIER WAY STA. 145+80
- POWDER MILL RD. STA. 173+44
- STANLEY RD./S. STANLEY RD. STA. 200+14
- WOODRIVER AVE STA. 217+79

NOT TO SCALE



 PCC PAVEMENT OMISSION

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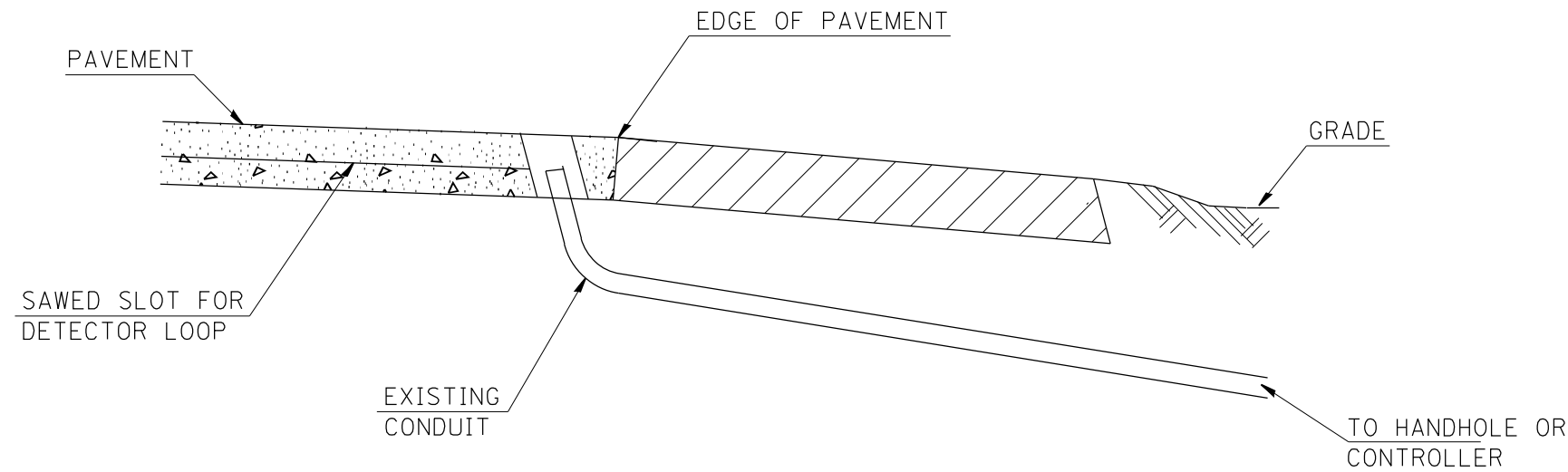
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PLOT DATE = 10/22/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS**  
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4, 133-1)RS-1	MADISON	35	23
CONTRACT NO. 76P39				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES				RODGERS AVE.	IL 3	FOSTERBURG RD.	PARK RD.	POWDERMILL RD.	STANLEY RD.	THELMA / FRANKLIN RD.	I-225
CODE NO.	ITEM	UNIT	TOTAL QUANTITIES								
88600600	DETECTOR LOOP REPLACEMENT	FOOT	14,979	1,801	4,946	281	526	1,489	1,366	2,295	2,275



DETAIL A  
(NO SCALE)

RE-USE EXISTING DETECTOR LOOP LEAD-IN CONDUIT

- 1 DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
- 2 REMOVE EXISTING CABLE TO HANDHOLE.
- 3 INSTALL LOOP LEAD-IN CONDUCTORS IN CONDUIT.
- 4 SPLICE NEW DETECTOR LOOP LEAD-IN CONDUCTORS TO EXISTING LEAD-IN CABLE IN HANDHOLE.
- 5 FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.

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

THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING THE EXISTING CONDUIT DURING CONSTRUCTION. SHOULD ANY DAMAGE TO THE CONDUIT OCCUR DUE TO THE OPERATIONS, REPAIR SHALL BE MADE TO THE SATISFACTION OF THE ENGINEER AND WILL BE DONE AT THE CONTRACTOR'S EXPENSE.

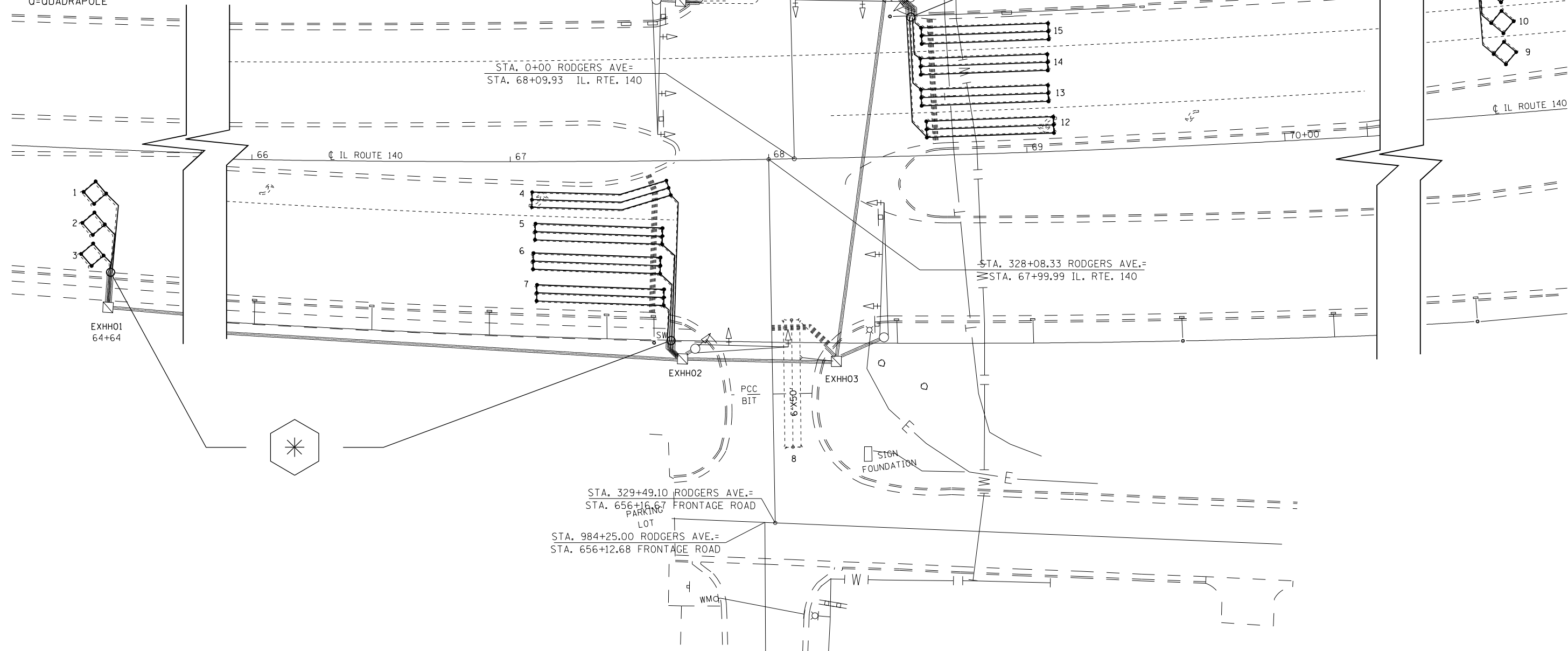
DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS  
FOR IL 11/140 & RODGERS AVE

LOOP#	PHASE#	LOOPSIZE (FT. X FT.)	REQUIRED# OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB CCO 1	6	6' x 6'	7	497.2	3.40
2. EB CCO 2	6	6' x 6'	7	494.5	3.34
3. EB CCO 3	6	6' x 6'	6	491.7	3.28
4. EB LT CD	1	6'x 50'(Q)	3-6-3	852.4	3.10
5. EB THRU 1 CD	6	6'x 50'(Q)	3-6-3	848.7	3.02
6. EB THRU 2 CD	6	6'x 50'(Q)	3-6-3	846.5	2.97
7. EB THRU 3 CD	6	6'x 50'(Q)	3-6-3	843.6	2.90
8. NB THRU CD	4	6'x 50'(Q)	3-6-3	829.1	2.57
9. WB CCO 1	2	6' x 6'	6	333.4	2.15
10. WB CCO 2	2	6' x 6'	6	330.8	2.09
11. WB CCO 3	2	6' x 6'	6	327.9	2.02
12. WB LT CD	5	6'x 50'(Q)	3-6-3	875.3	3.62
13. WB THRU 1 CD	2	6'x 50'(Q)	3-6-3	870.9	3.52
14. WB THRU 2 CD	2	6'x 50'(Q)	3-6-3	868.3	3.46
15. WB THRU 3 CD	2	6'x 50'(Q)	3-6-3	865.6	3.40
16. SB LT CD	3	6'x 50'(Q)	3-6-3	815.9	2.27
17. SB THRU CD	3	6'x 50'(Q)	3-6-3	813.06	2.21

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

\* = SEE DETAIL "A"

Q=QUADRAPOLE



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PLOT DATE = 10/21/2021	DATE -	REVISOR -	REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 11/140 & RODGERS AVE. (ALTON, MADISON CNTY.)  
DETECTOR LOOP REPLACEMENT PLAN

SCALE: NTS SHEET NO. 2 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4, 133-1RS-1)	MADISON	35	25
CONTRACT NO. 76P39				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS					
FOR IL 111/140 & IL 3					
1. RMP_B_C EB COO 1	4	6' x 6'	7	538.95	4.35
2. RMP_B_C EB COO 2	4	6' x 6'	7	536.31	4.29
3. RMP_B_C EB COO 3	4	6' x 6'	7	533.67	4.23
4. RMP_B_C EB THRU 1 CD	4	6' x 50'(Q)	3-6-3	861.68	3.31
5. RMP_B_C EB THRU 2 CD	4	6' x 50'(Q)	3-6-3	864.32	3.37
6. RMP_B_C EB THRU 3 CD	4	6' x 50'(Q)	3-6-3	866.96	3.43
7. RMP_B_C EB THRU 4 CD	4	6' x 50'(Q)	3-6-3	869.60	3.49
8. RMP_B_C EB RT 1 CD	4	6' x 50'(Q)	3-6-3	879.50	3.72
9. RMP_B_C EB RT 2 CD	4	6' x 50'(Q)	3-6-3	877.08	3.66

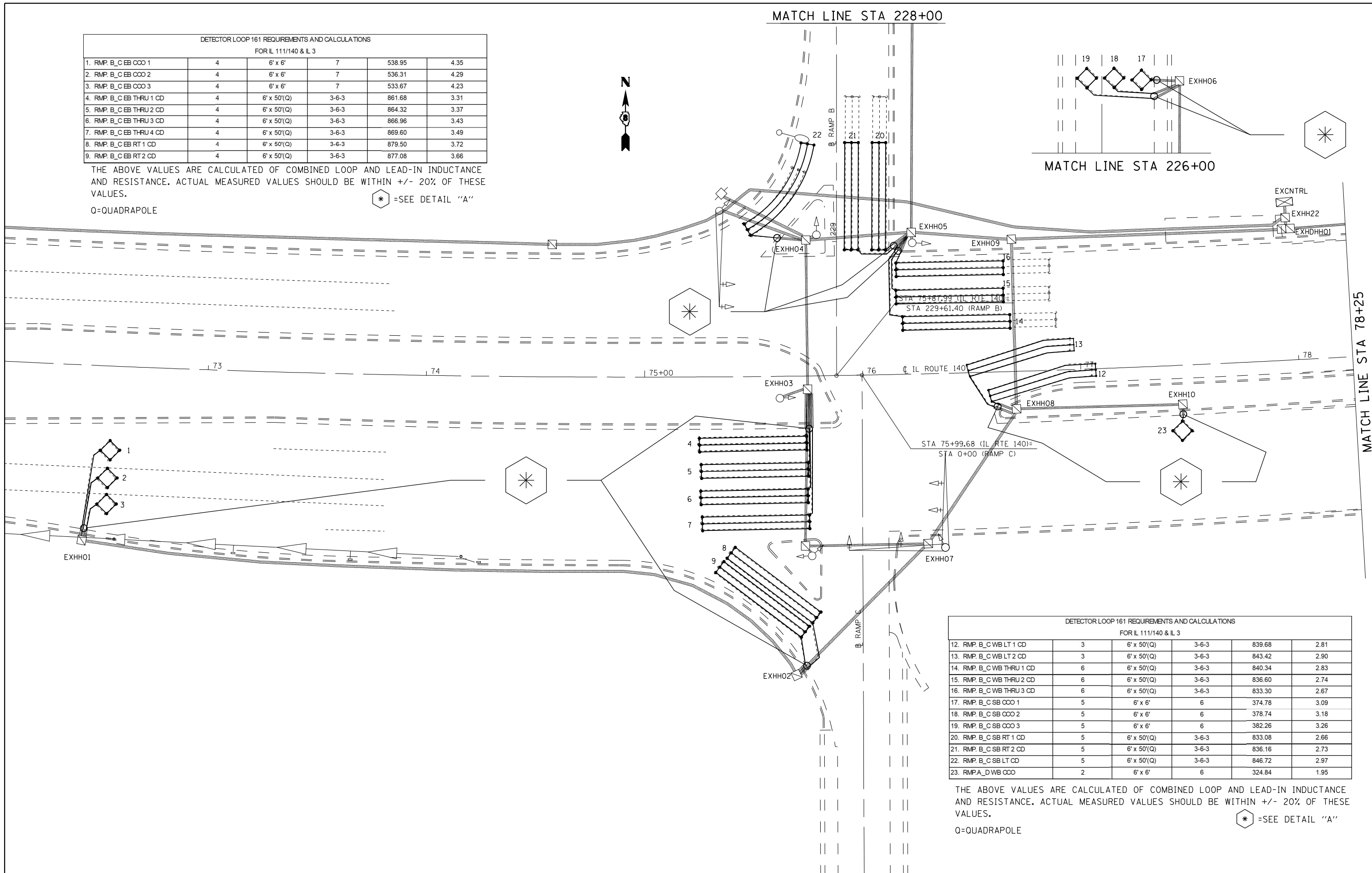
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

\* =SEE DETAIL "A"

MATCH LINE STA 228+00

MATCH LINE STA 226+00



DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS  
FOR IL 111/140 & IL 3

12. RMP_B_C WB LT 1 CD	3	6' x 50'(Q)	3-6-3	839.68	2.81
13. RMP_B_C WB LT 2 CD	3	6' x 50'(Q)	3-6-3	843.42	2.90
14. RMP_B_C WB THRU 1 CD	6	6' x 50'(Q)	3-6-3	840.34	2.83
15. RMP_B_C WB THRU 2 CD	6	6' x 50'(Q)	3-6-3	836.60	2.74
16. RMP_B_C WB THRU 3 CD	6	6' x 50'(Q)	3-6-3	833.30	2.67
17. RMP_B_C SB COO 1	5	6' x 6'	6	374.78	3.09
18. RMP_B_C SB COO 2	5	6' x 6'	6	378.74	3.18
19. RMP_B_C SB COO 3	5	6' x 6'	6	382.26	3.26
20. RMP_B_C SB RT 1 CD	5	6' x 50'(Q)	3-6-3	833.08	2.66
21. RMP_B_C SB RT 2 CD	5	6' x 50'(Q)	3-6-3	836.16	2.73
22. RMP_B_C SB LT CD	5	6' x 50'(Q)	3-6-3	846.72	2.97
23. RMP_A_D WB COO	2	6' x 6'	6	324.84	1.95

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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\* =SEE DETAIL "A"

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PLOT DATE = 10/22/2021	DATE -	REVISIONS	REVISIONS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 111/140 & IL 3 RAMP B-C (ALTON, MADISON CNTY.)  
DETECTOR LOOP REPLACEMENT PLAN

SCALE: NTS SHEET NO. 3 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4, 133-1)RS-1	MADISON	35	26
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 76P39		



DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS					
FOR IL 111/140 & IL 3					
10. RMP_B_CWB_CCO 1	6	6' x 6'	6	323.52	1.92
11. RMP_B_CWB_CCO 2	6	6' x 6'	6	327.26	2.01

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"

MATCH LINE STA 78+25

MATCH LINE STA 2+00

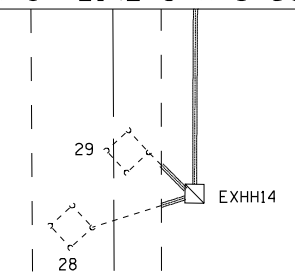
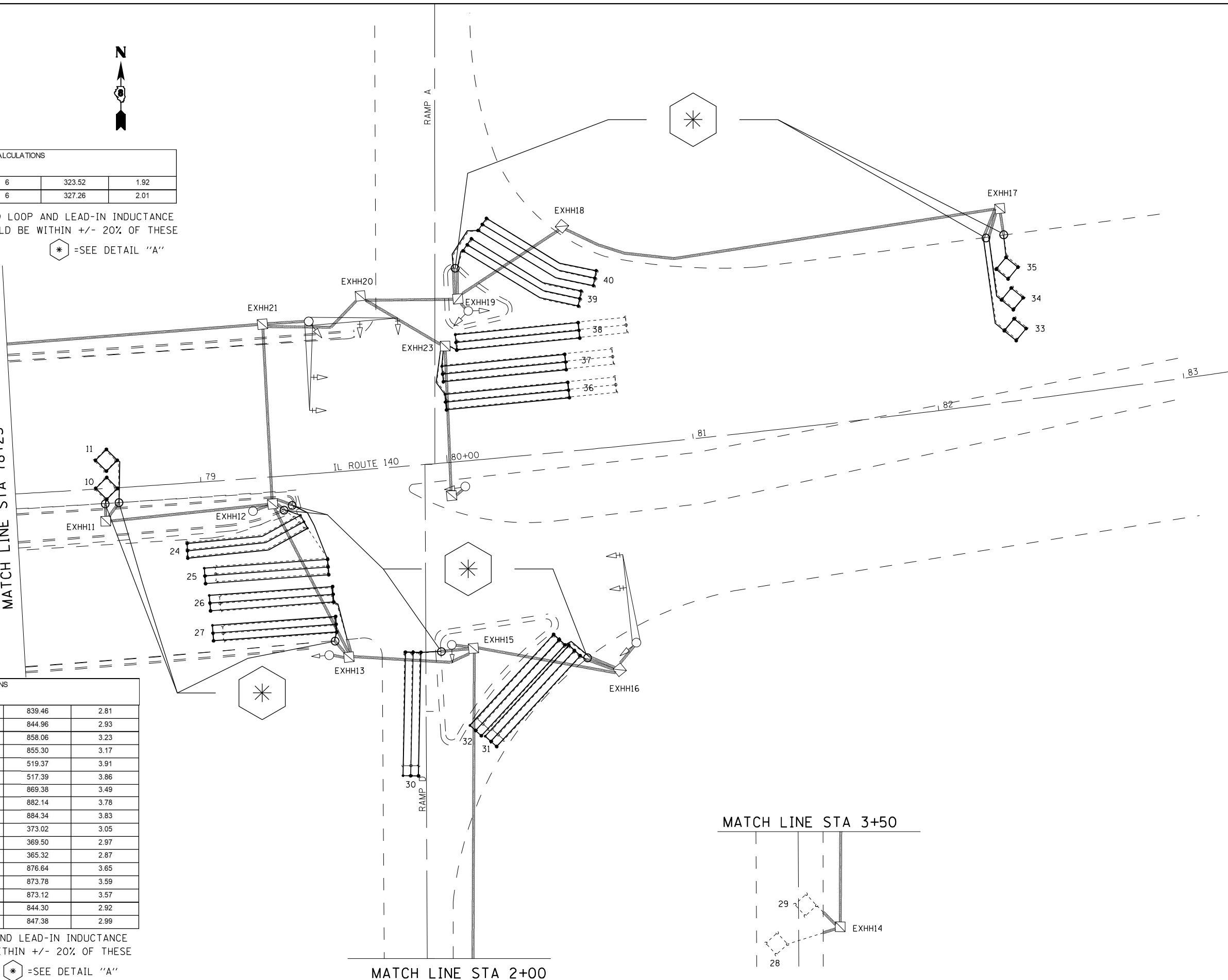
MATCH LINE STA 3+50

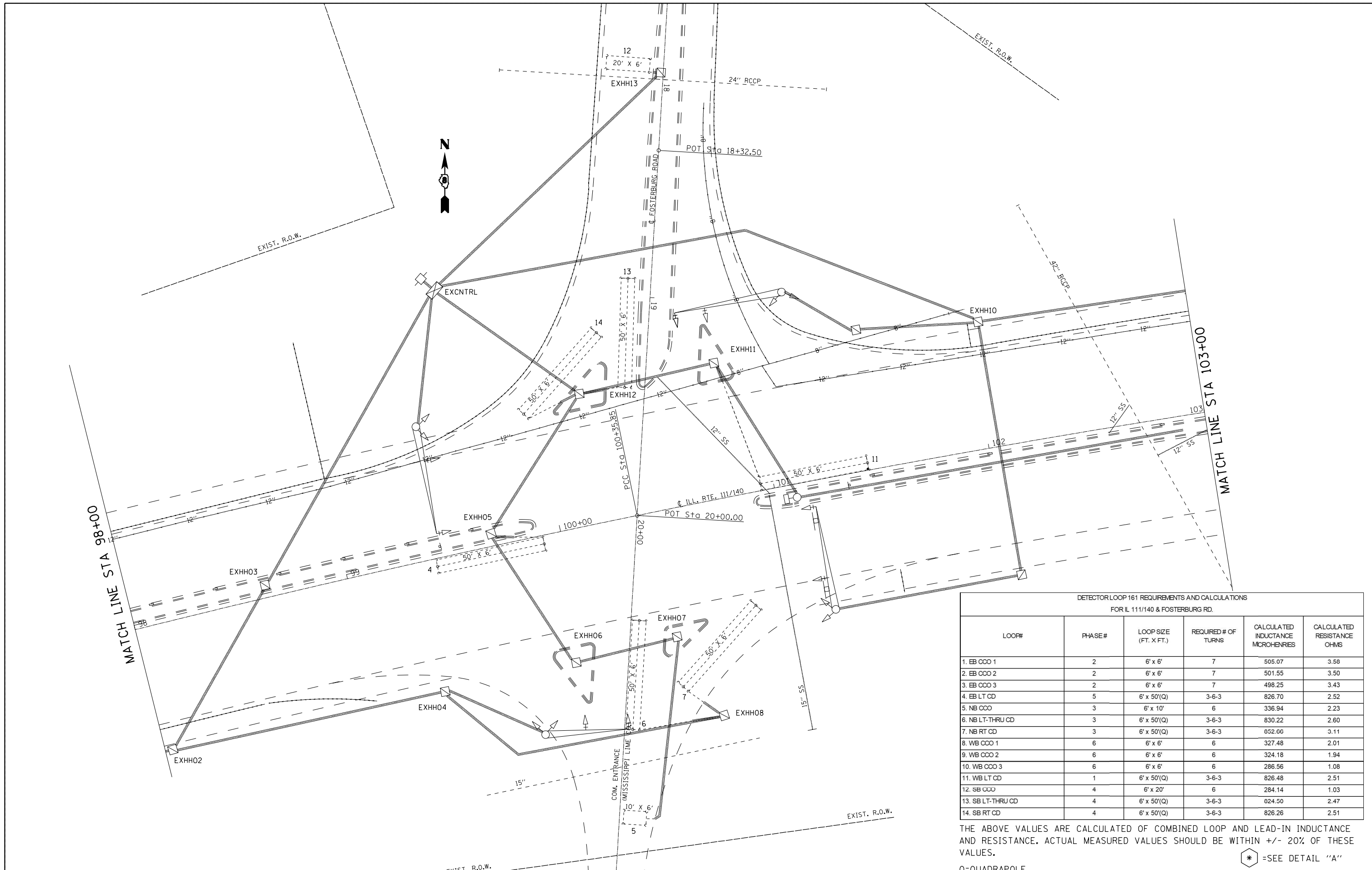
DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS					
FOR IL 111/140 & IL 3					
24. RMPA_D WB LT CD	7	6' x 50'(Q)	3-6-3	839.46	2.81
25. RMPA_D WB THRU 1 CD	2	6' x 50'(Q)	3-6-3	844.96	2.93
26. RMPA_D WB THRU 2 CD	2	6' x 50'(Q)	3-6-3	858.06	3.23
27. RMPA_D WB THRU 3 CD	2	6' x 50'(Q)	3-6-3	855.30	3.17
28. RMPA_D NB CCO 1	1	6' x 6'	7	519.37	3.91
29. RMPA_D NB CCO 2	1	6' x 6'	7	517.39	3.86
30. RMPA_D NB LT CD	1	6' x 50'(Q)	3-6-3	869.38	3.49
31. RMPA_D NB RT 1 CD	1	6' x 50'(Q)	3-6-3	882.14	3.78
32. RMPA_D NB RT 2 CD	1	6' x 50'(Q)	3-6-3	884.34	3.83
33. RMPA_D WB CCO 1	8	6' x 6'	6	373.02	3.05
34. RMPA_D WB CCO 2	8	6' x 6'	6	369.50	2.97
35. RMPA_D WB CCO 3	8	6' x 6'	6	365.32	2.87
36. RMPA_D WB THRU 1 CD	8	6' x 50'(Q)	3-6-3	876.64	3.65
37. RMPA_D WB THRU 2 CD	8	6' x 50'(Q)	3-6-3	873.78	3.59
38. RMPA_D WB THRU 3 CD	8	6' x 50'(Q)	3-6-3	873.12	3.57
39. RMPA_D WB RT 1 CD	8	6' x 50'(Q)	3-6-3	844.30	2.92
40. RMPA_D WB RT 2 CD	8	6' x 50'(Q)	3-6-3	847.38	2.99

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"





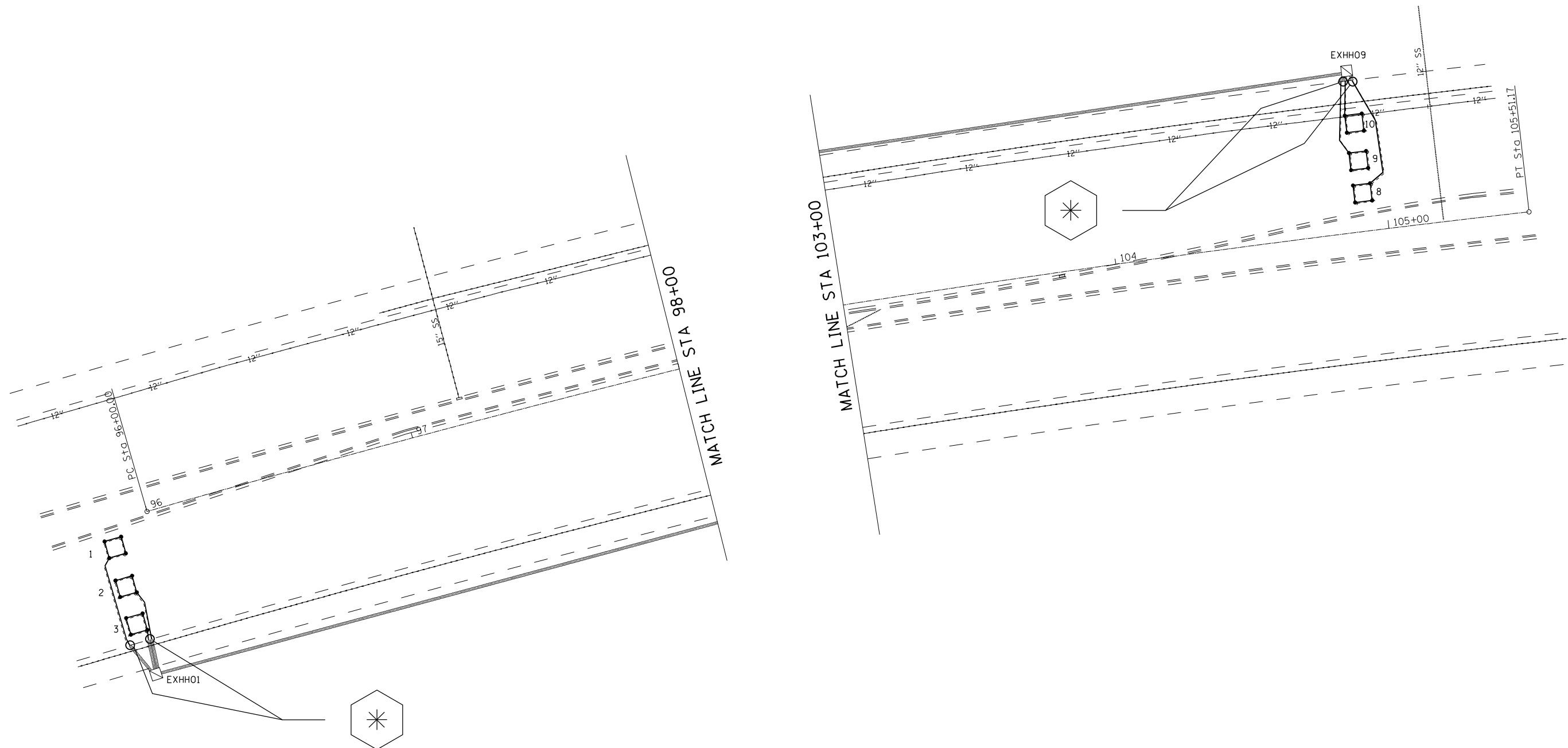
DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS FOR IL 111/140 & FOSTERBURG RD.

LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB CCO 1	2	6' x 6'	7	505.07	3.58
2. EB CCO 2	2	6' x 6'	7	501.55	3.50
3. EB CCO 3	2	6' x 6'	7	498.25	3.43
4. EB LT CD	5	6' x 50'(Q)	3-6-3	826.70	2.52
5. NB CCO	3	6' x 10'	6	336.94	2.23
6. NB LT-THRU CD	3	6' x 50'(Q)	3-6-3	830.22	2.60
7. NB RT CD	3	6' x 50'(Q)	3-6-3	852.66	3.11
8. WB CCO 1	6	6' x 6'	6	327.48	2.01
9. WB CCO 2	6	6' x 6'	6	324.18	1.94
10. WB CCO 3	6	6' x 6'	6	286.56	1.08
11. WB LT CD	1	6' x 50'(Q)	3-6-3	826.48	2.51
12. SB CCO	4	6' x 20'	6	284.14	1.03
13. SB LT-THRU CD	4	6' x 50'(Q)	3-6-3	824.50	2.47
14. SB RT CD	4	6' x 50'(Q)	3-6-3	826.26	2.51

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

\* =SEE DETAIL "A"

Q=QUADRAPOLE



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 111/40 & FOSTERBERG RD. (ALTON, MADISON CNTY.)  
DETECTOR LOOP REPLACEMENT PLAN 2 OF 2**

SCALE: NTS      SHEET NO. 6 OF 12 SHEETS      STA.      TO STA.

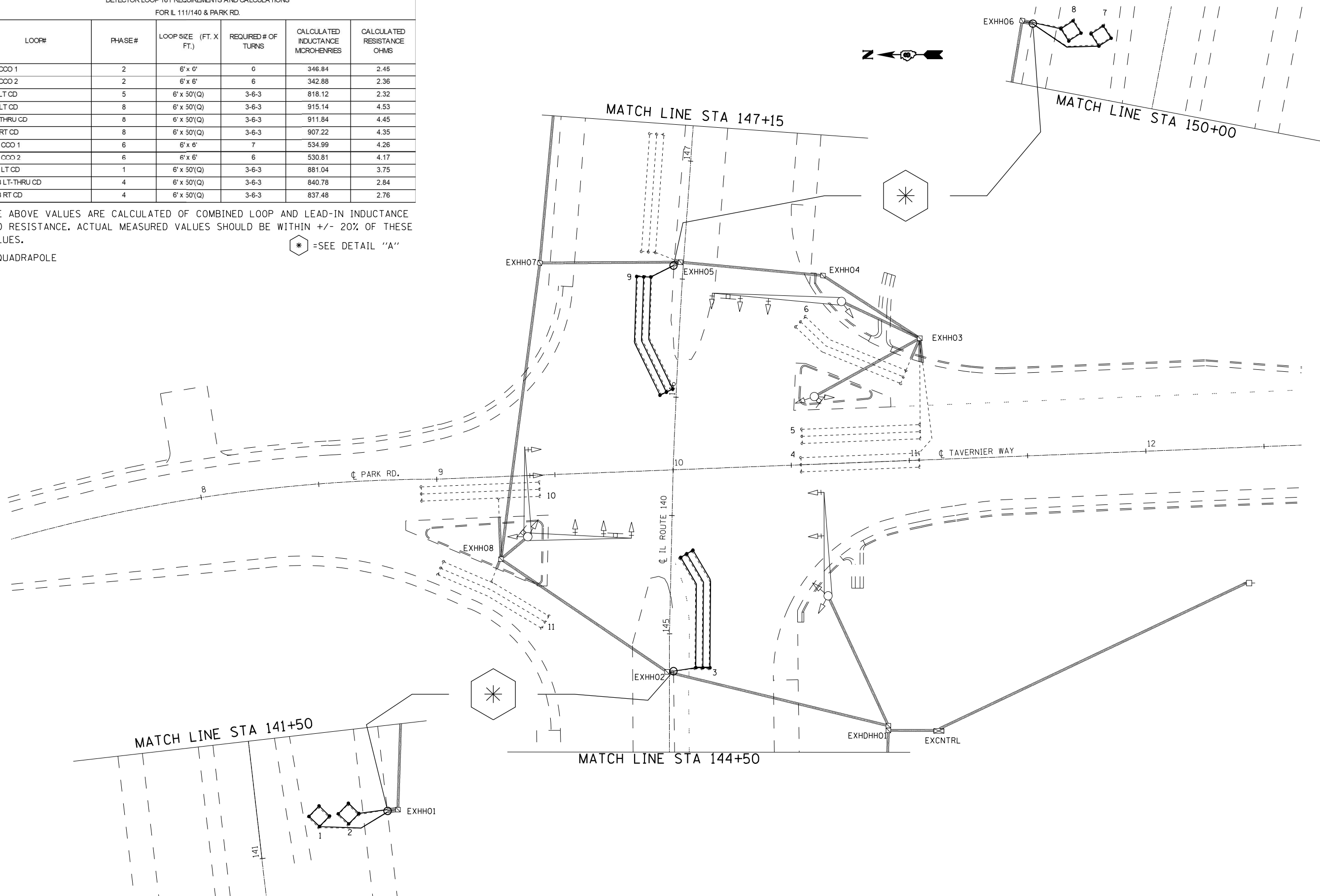
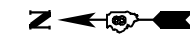
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4, 133-1)RS-1	MADISON	35	29
FED. ROAD DIST. NO.      ILLINOIS FED. AID PROJECT			CONTRACT NO. 76P39	

DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS FOR IL 111/140 & PARK RD.					
LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB CCO 1	2	6' x 6'	6	346.84	2.45
2. EB CCO 2	2	6' x 6'	6	342.88	2.36
3. EB LT CD	5	6' x 50'(Q)	3-6-3	818.12	2.32
4. NB LT CD	8	6' x 50'(Q)	3-6-3	915.14	4.53
5. NB THRU CD	6	6' x 50'(Q)	3-6-3	911.84	4.45
6. NB RT CD	8	6' x 50'(Q)	3-6-3	907.22	4.35
7. WB CCO 1	6	6' x 6'	7	534.99	4.26
8. WB CCO 2	6	6' x 6'	6	530.81	4.17
9. WB LT CD	1	6' x 50'(Q)	3-6-3	881.04	3.75
10. SB LT-THRU CD	4	6' x 50'(Q)	3-6-3	840.78	2.84
11. SB RT CD	4	6' x 50'(Q)	3-6-3	837.48	2.76

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

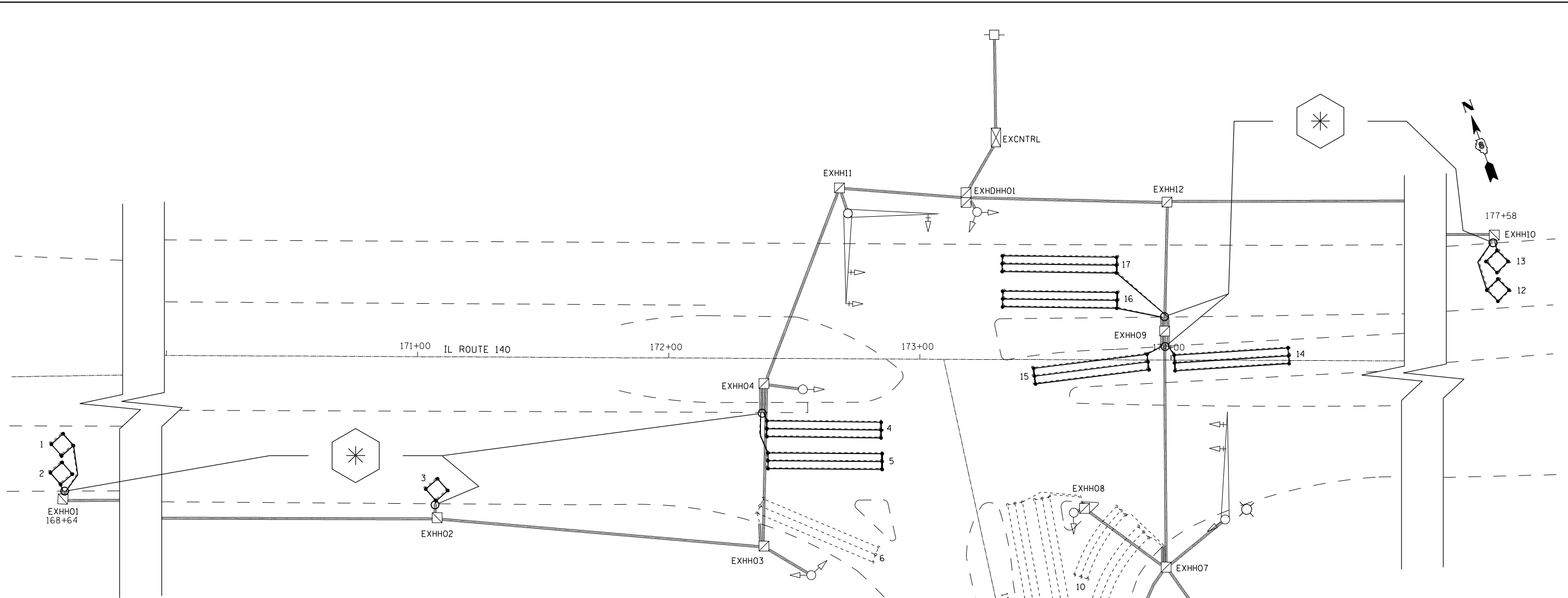
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 =SEE DETAIL "A"



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PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -			CONTRACT NO. 76P39				
PLOT DATE = 10/21/2021		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SCALE: NTS      SHEET NO. 7 OF 12 SHEETS      STA.      TO STA.



**DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS  
FOR IL 111/140 & POWDERMILL RD.**

LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB CCO 1	2	6' x 6'	7	508.37	3.66
2. EB CCO 2	2	6' x 6'	7	504.63	3.57
3. EB CCO 3	2	6' x 6'	6	338.26	2.26
4. EB THRU 1 CD	2	6' x 50'(Q)	3-6-3	827.14	2.53
5. EB THRU 2 CD	2	6' x 50'(Q)	3-6-3	830.00	2.59
6. EB RT CD	2	6' x 50'(Q)	3-6-3	841.44	2.85
7. NB CCO	8	4' x 27'	6	372.36	3.03
8. NB THRU 1 CD	8	6' x 50'(Q)	3-6-3	882.80	3.79
9. NB THRU 2 CD	8	6' x 50'(Q)	3-6-3	880.16	3.73
10. NB RT 1 CD	8	6' x 32'(Q)	3-6-3	580.90	2.53
11. NB RT 2 CD	8	6' x 45'(Q)	3-6-3	777.82	2.85
12. WB CCO 1	6	6' x 6'	6	366.64	2.90
13. WB CCO 2	6	6' x 6'	6	362.68	2.81
14. WB RT 1 CD	1	6' x 50'(Q)	3-6-3	825.60	2.49
15. WB RT 2 CD	1	6' x 50'(Q)	3-6-3	826.04	2.50
16. WB THRU 1 CD	6	6' x 50'(Q)	3-6-3	828.46	2.56
17. WB THRU 2 CD	6	6' x 50'(Q)	3-6-3	830.44	2.60

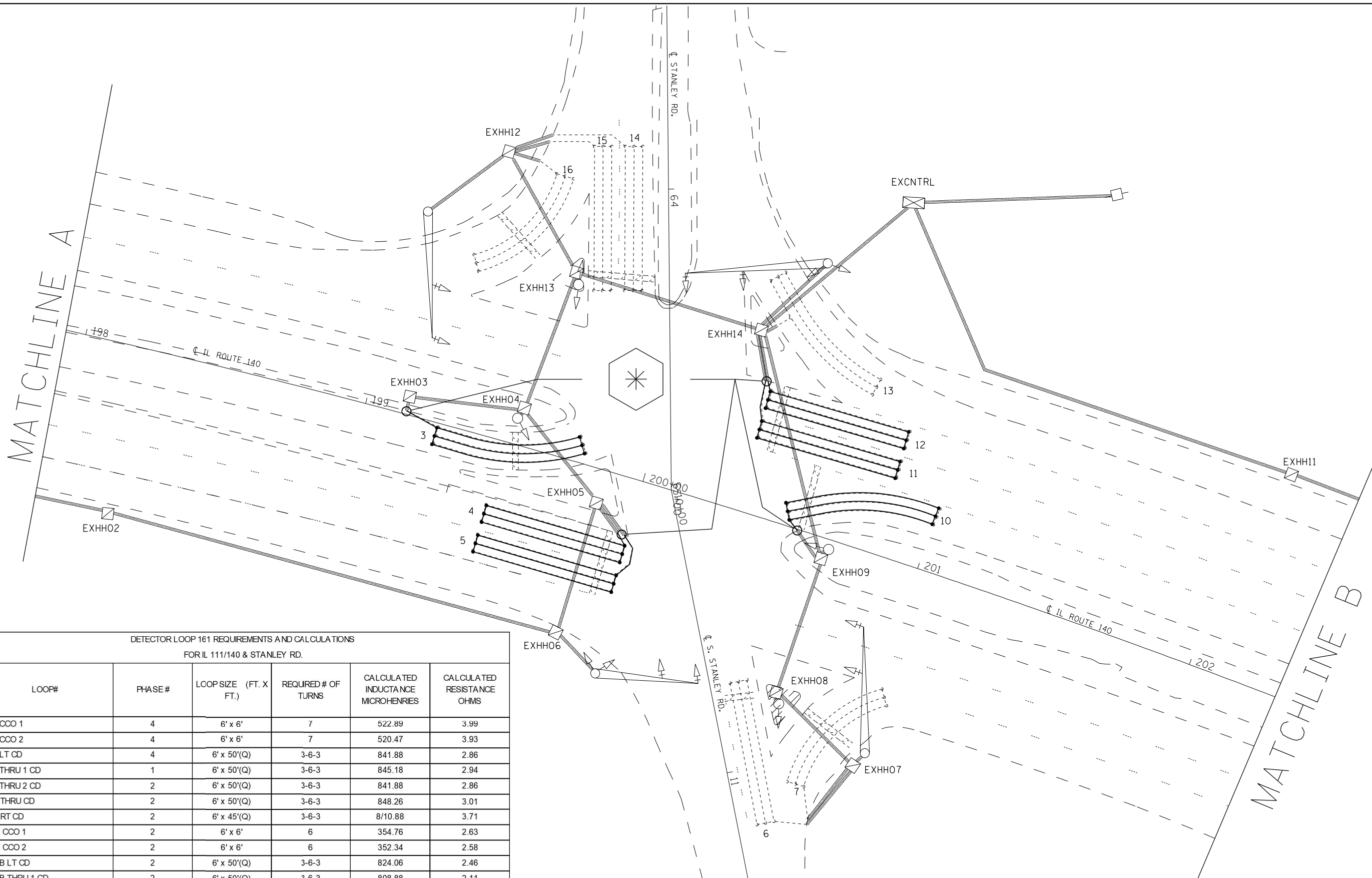
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

=SEE DETAIL "A"

MATCH LINE STA 12+80

MATCH LINE STA 12+50



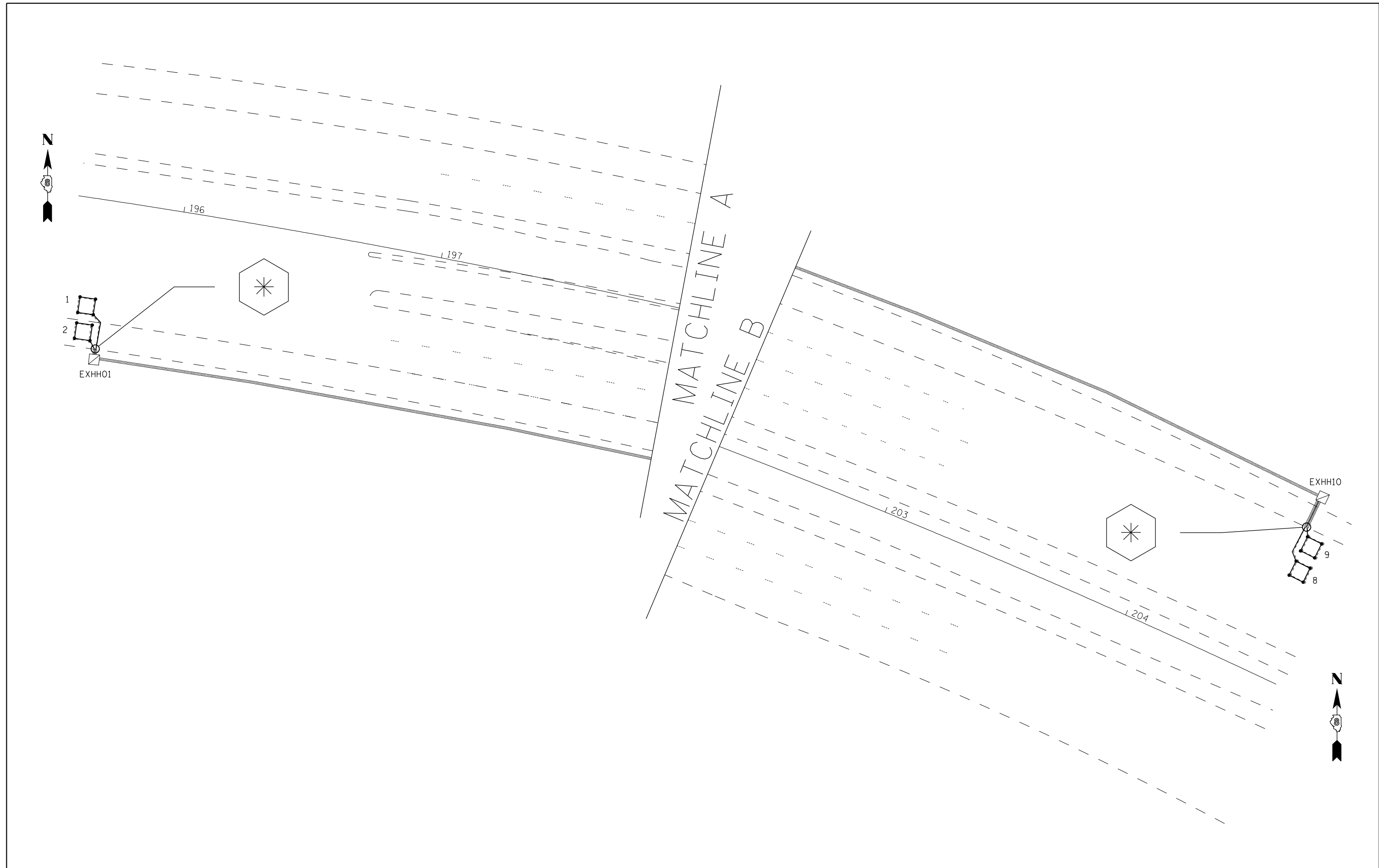
DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS  
FOR IL 111/140 & STANLEY RD.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB CCO 1	4	6' x 6'	7	522.89	3.99
2. EB CCO 2	4	6' x 6'	7	520.47	3.93
3. EB LT CD	4	6' x 50'(Q)	3-6-3	841.88	2.86
4. EB THRU 1 CD	1	6' x 50'(Q)	3-6-3	845.18	2.94
5. EB THRU 2 CD	2	6' x 50'(Q)	3-6-3	841.88	2.86
6. NB THRU CD	2	6' x 50'(Q)	3-6-3	848.26	3.01
7. NB RT CD	2	6' x 45'(Q)	3-6-3	810.88	3.71
8. WB CCO 1	2	6' x 6'	6	354.76	2.63
9. WB CCO 2	2	6' x 6'	6	352.34	2.58
10. WB LT CD	2	6' x 50'(Q)	3-6-3	824.06	2.46
11. WB THRU 1 CD	2	6' x 50'(Q)	3-6-3	808.88	2.11
12. WB THRU 2 CD	2	6' x 50'(Q)	3-6-3	806.46	2.06
13. WB RT CD	5	6' x 50'(Q)	3-6-3	804.26	2.01
14. SB THRU 1 CD	2	6' x 50'(Q)	3-6-3	837.04	2.75
15. SB THRU 2 CD	2	6' x 50'(Q)	3-6-3	834.62	2.70
16. SB RT CD	2	6' x 45'(Q)	3-6-3	756.98	2.49

THE NEIGHBORING 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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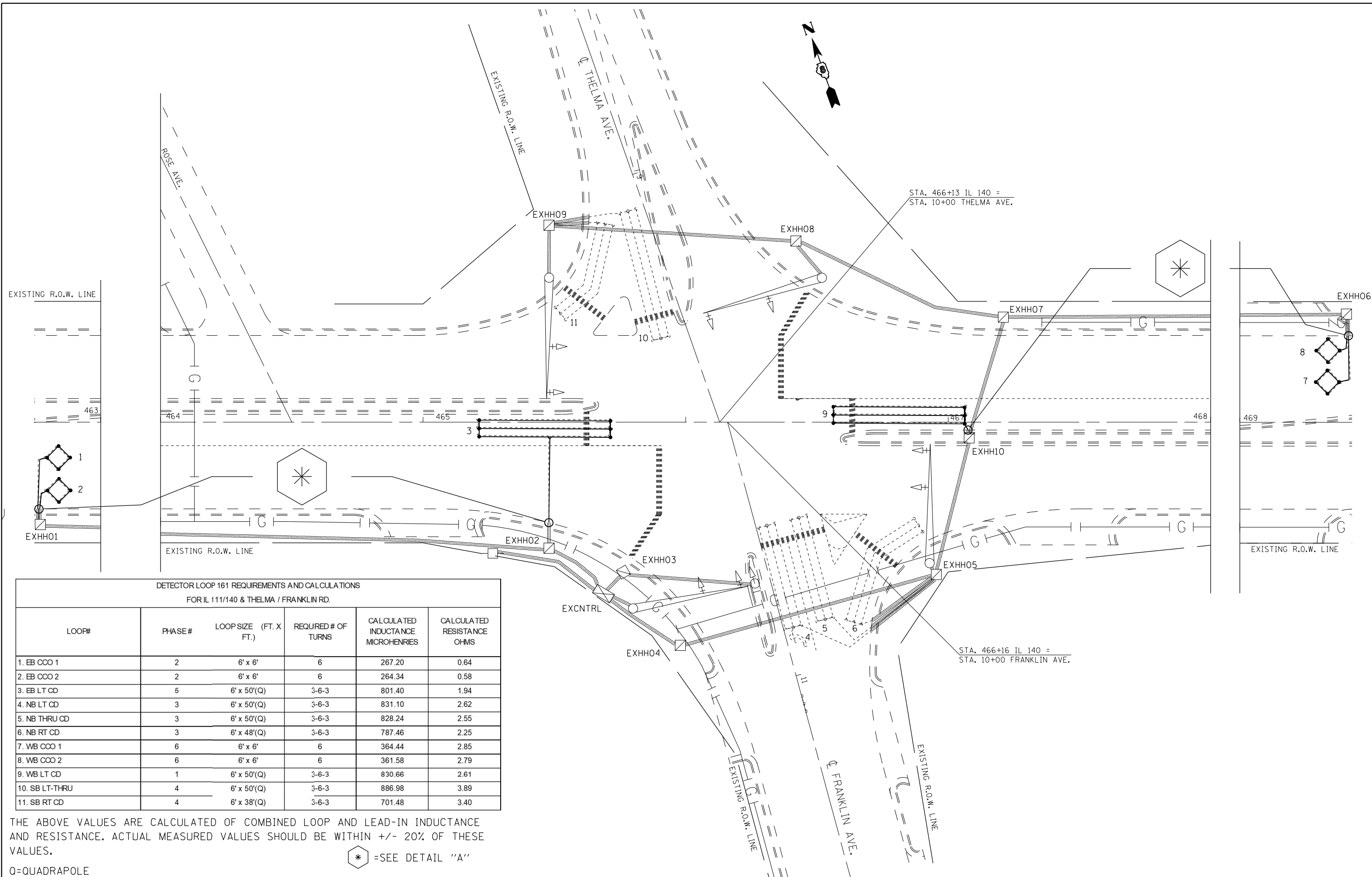
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 111/40 & STANLEY RD. (ALTON, MADISON CNTY.)  
DETECTOR LOOP REPLACEMENT PLANS 2 OF 2**

SCALE: NTS      SHEET NO. 10 OF 12 SHEETS      STA.      TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)R5-1	MADISON	35	33
CONTRACT NO. 76P39				
FED. ROAD DIST. NO.      ILLINOIS FED. AID PROJECT				





STA. 466+13 IL 140 =  
STA. 10+00 THELMA AVE.

STA. 466+16 IL 140 =  
STA. 10+00 FRANKLIN AVE.

DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS  
FOR IL 111/140 & THELMA / FRANKLIN RD.

LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB CCO 1	2	6' x 6'	6	267.20	0.64
2. EB CCO 2	2	6' x 6'	6	264.34	0.58
3. EB LT CD	5	6' x 50'(Q)	3-6-3	801.40	1.94
4. NB LT CD	3	6' x 50'(Q)	3-6-3	831.10	2.62
5. NB THRU CD	3	6' x 50'(Q)	3-6-3	828.24	2.55
6. NB RT CD	3	6' x 48'(Q)	3-6-3	787.46	2.25
7. WB CCO 1	6	6' x 6'	6	364.44	2.85
8. WB CCO 2	6	6' x 6'	6	361.58	2.79
9. WB LT CD	1	6' x 50'(Q)	3-6-3	830.66	2.61
10. SB LT-THRU	4	6' x 50'(Q)	3-6-3	886.98	3.89
11. SB RT CD	4	6' x 38'(Q)	3-6-3	701.48	3.40

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"

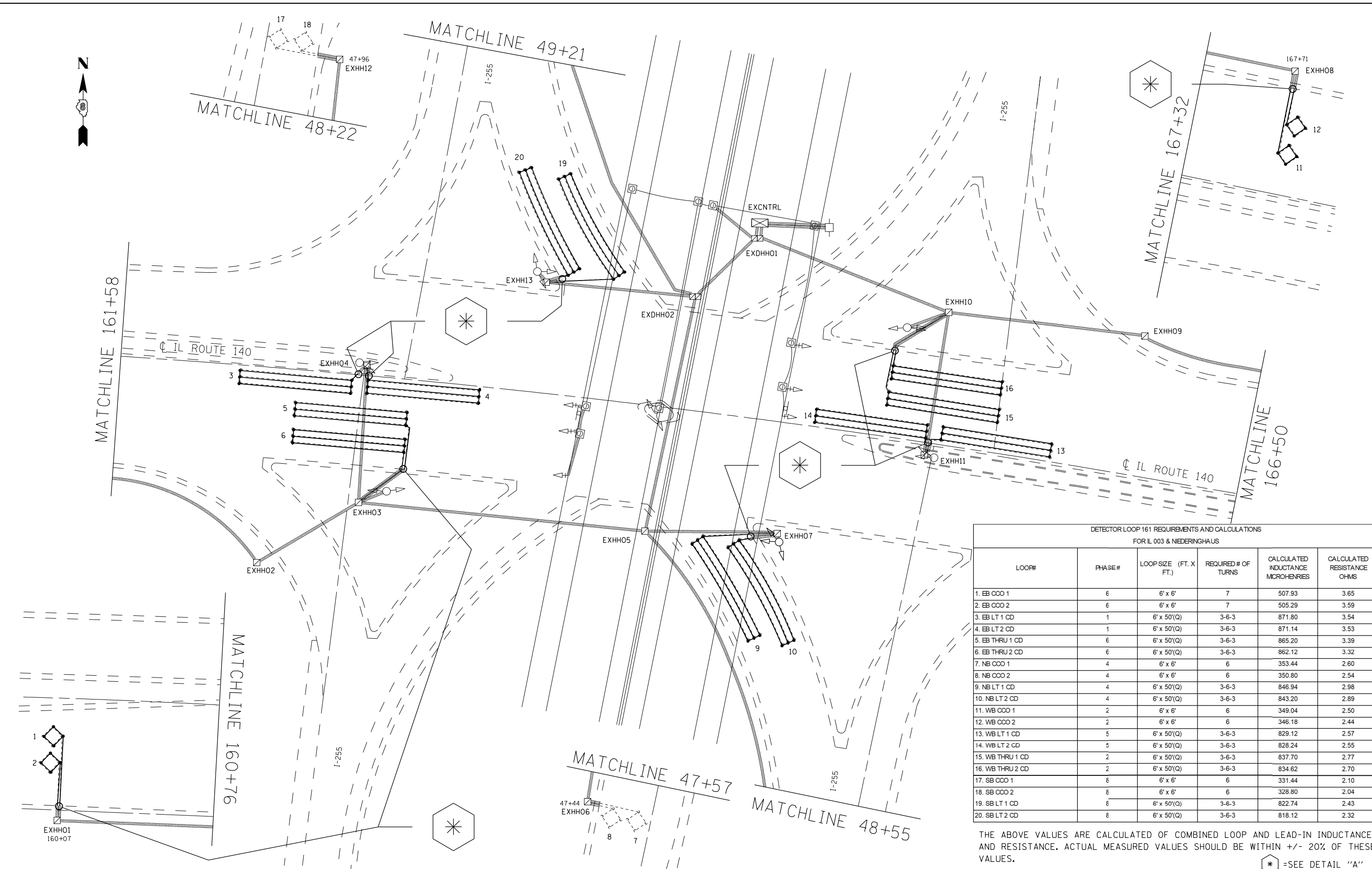
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	PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 111/140 & THELMA AVE./FRANKLIN AVE. (ALTON, MADISON CNTY.)  
DETECTOR LOOP REPLACEMENT PLANS**

SCALE: NTS SHEET NO. 11 OF 12 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4,133-1)RS-1	MADISON	35	34
CONTRACT NO. 76P39				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS  
FOR IL 003 & NIEDERINGHAUS

LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB COO 1	6	6' x 6'	7	507.93	3.65
2. EB COO 2	6	6' x 6'	7	505.29	3.59
3. EB LT 1 CD	1	6' x 50'(Q)	3-6-3	871.80	3.54
4. EB LT 2 CD	1	6' x 50'(Q)	3-6-3	871.14	3.53
5. EB THRU 1 CD	6	6' x 50'(Q)	3-6-3	865.20	3.39
6. EB THRU 2 CD	6	6' x 50'(Q)	3-6-3	862.12	3.32
7. NB COO 1	4	6' x 6'	6	353.44	2.60
8. NB COO 2	4	6' x 6'	6	350.80	2.54
9. NB LT 1 CD	4	6' x 50'(Q)	3-6-3	846.94	2.98
10. NB LT 2 CD	4	6' x 50'(Q)	3-6-3	843.20	2.89
11. WB COO 1	2	6' x 6'	6	349.04	2.50
12. WB COO 2	2	6' x 6'	6	346.18	2.44
13. WB LT 1 CD	5	6' x 50'(Q)	3-6-3	829.12	2.57
14. WB LT 2 CD	5	6' x 50'(Q)	3-6-3	828.24	2.55
15. WB THRU 1 CD	2	6' x 50'(Q)	3-6-3	837.70	2.77
16. WB THRU 2 CD	2	6' x 50'(Q)	3-6-3	834.62	2.70
17. SB COO 1	6	6' x 6'	6	331.44	2.10
18. SB COO 2	6	6' x 6'	6	328.80	2.04
19. SB LT 1 CD	6	6' x 50'(Q)	3-6-3	822.74	2.43
20. SB LT 2 CD	6	6' x 50'(Q)	3-6-3	818.12	2.32

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"