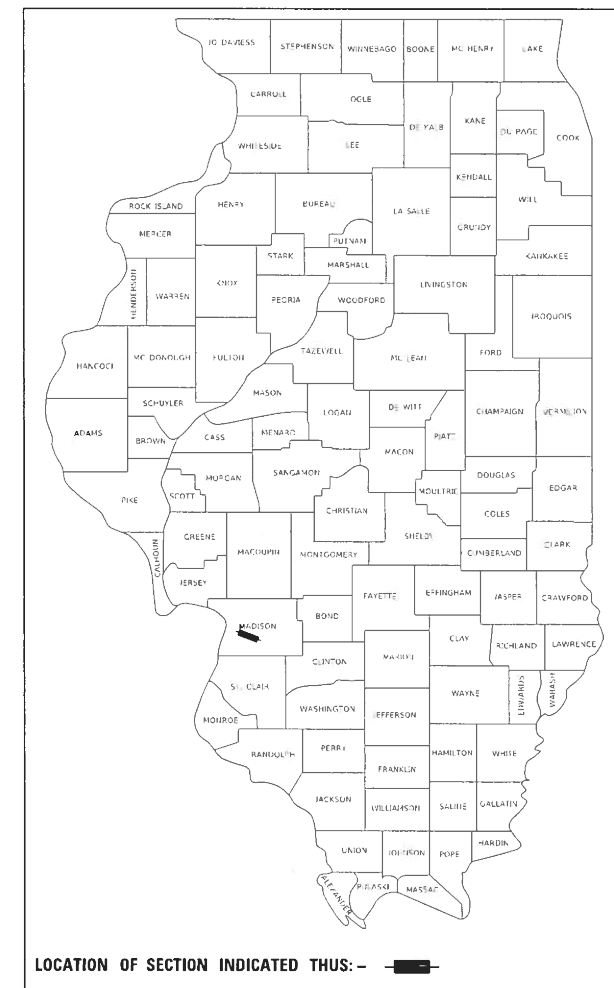


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	1
		ILLINOIS	CONTRACT NO. 76N29	

D-98-057-20



LOCATION OF SECTION INDICATED THUS: - [shaded box] -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

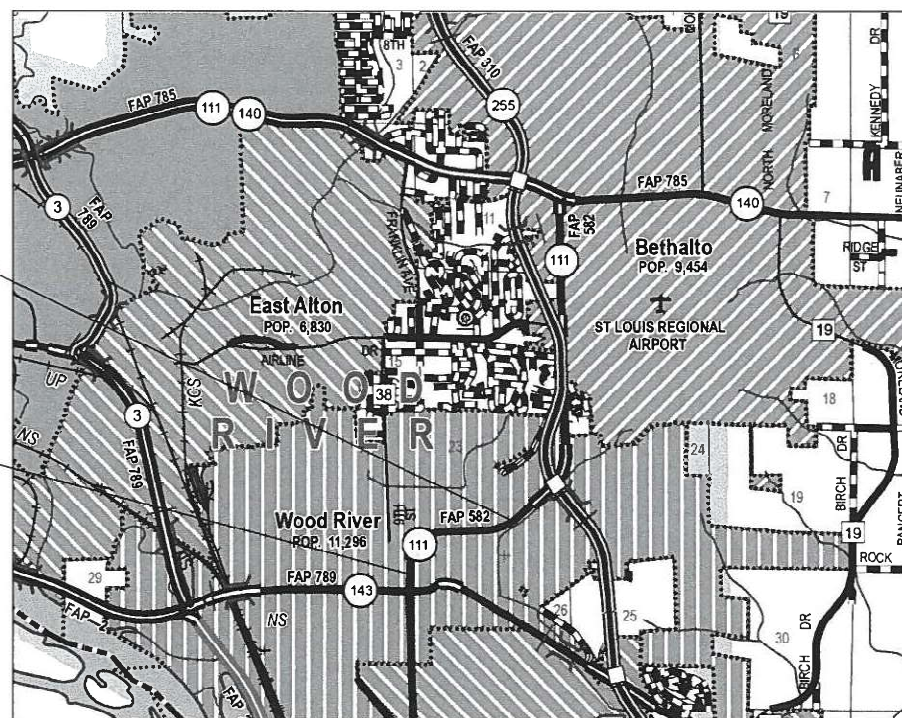
TRAFFIC DATA

ADT (CONSTRUCTION YR):	10800
MU%	1.8
SU%	6.0
20 YR. ESAL'S:	2.16

PROPOSED HIGHWAY PLANS

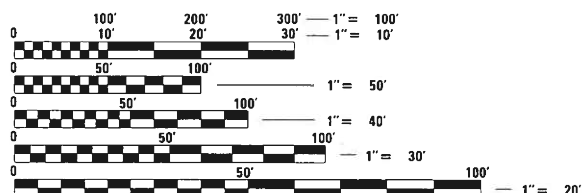
FAP 582 (IL 111)
SECTION 107-2RS
SMART OVERLAY – CM
MADISON COUNTY

C-98-071-20



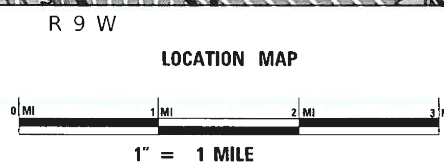
END PROJECT
0.68 M.S.
LATITUDE: 38.866928
LONGITUDE: -90.066494

BEGIN PROJECT
0.0 M.S.
LATITUDE: 38.865014
LONGITUDE: -90.078122



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

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



GROSS LENGTH = 3590.4 FT. = 0.680 MILE
NET LENGTH = 3590.4 FT. = 0.680 MILE

PROJECT ENGINEER: TIFFANY BRASE (618)346-3175
PROJECT MANAGER: DIANA MURRAY (618)346-3207

CONTRACT NO. 76N29

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *March 16, 2020*
Kath Roberts
REGIONAL ENGINEER

May 8, 2020 *Scott A. Elk*
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2020 *Jasmin Gun*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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- 5 LOCATION MAP
- 6-9 TYPICAL SECTIONS
- 10-13 SCHEDULE OF QUANTITIES
- 14 INTERSECTION DETAILS
- 15-16 DETECTOR LOOP REPLACEMENT PLANS

HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 442201-03 CLASS C PATCHES
- 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
- 701502-09 URBAN LANE CLOSURE, 2L, 2W, WITH BI-DIRECTIONAL LEFT TURN LANE
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701602-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH BI-DIRECTIONAL 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
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTOR LOOPS

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.
2. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT, THE STATIONING, TOPOGRAPHY AND QUANTITIES SHOWN ON THESE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS. ALL SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
3. PROPOSED PAVEMENT MARKING SHALL BE PLACED IN THE SAME LOCATION AS EXISTING AS DIRECTED BY THE ENGINEER.
4. NO OVERNIGHT LANE CLOSURE WILL BE PERMITTED.
5. AN ESTIMATED QUANTITY OF 1447 TONS OF CUTTINGS FROM HOT-MIX ASPHALT SURFACE REMOVAL OPERATION IS ANTICIPATED WIDTHS AS MEASURED IN THE FIELD.
6. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO MILLED, PRIMED SURFACE AND FINAL SURFACE. ONLY REMOVAL FROM THE FINAL SURFACE SHALL BE PAID FOR AS SHORT TERM PAVEMENT MARKING REMOVAL.
7. THEN THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
8. IF THE PROPOSED SURFACE REMOVAL ON THIS PROJECT PRODUCES A MILLED EDGE ANYWHERE GREATER THAN 1.5 INCHES OR IF THE PROPOSED RESURFACING RESULTS IN AN ELEVATION DIFFERENCE GREATER THAN 2 INCHES NEAR THE CENTERLINE BETWEEN ADJACENT OPEN LANES OF TRAFFIC, ONE OF THE FOLLOWING APPLY:
 - * THE CONTRACTOR SHALL ORGANIZE THE WORK TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
 - * THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY HOT-MIX ASPHALT WEDGE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
 - * THE CONTRACTOR SHALL CONSTRUCT A MILLED SLOPE EDGE (MINIMUM 1:3) TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.

THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST PER SQUARE YARD FOR HOT-MIX ASPHALT SURFACE REMOVAL OF THE DEPTH SPECIFIED OR IN THE COST PER TON FOR THE HOT MIX SURFACING MIXES SPECIFIED IN THE PLANS.
9. FLAGGERS SHALL BE REQUIRED AT ALL TIMES DURING PATCHING OPERATIONS.
10. HIGH EARLY STRENGTH CONCRETE FOR PAVEMENT PATCHING WILL BE ALLOWED.
11. 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.

12. ANY DETECTOR LOOPS THAT ARE NOT INDICATED ACCORDING TO THE PLANS AS DETECTOR LOOPS REPLACEMENT, THE CONTRACTOR SHALL EXERCISE CAUTION TO NOT DAMAGE DETECTOR LOOPS OR LEAD-IN WIRES. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. NON ADDITIONAL COMPENSATION WILL BE ALLOWED.

MIXTURE REQUIREMENTS

ROUTE	FAP 582 (IL 111)
SECTION	107-1PP-1
COUNTY	MADISON
CONTRACT	76N29

DESCRIPTION	SMART - IL 111 FROM EDWARDSVILLE RD. TO 0.1 MI N. OF WESLEY DR.
-------------	---

MIXTURE USE	POLY SURFACE
AC/PG	SBS PG 76-22
RAP % (MAX)	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5
FRICITION AGG	MIXTURE "D"
QUALITY MGMT PROGRAM	QCP

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/ SQ YD/ INCH (58.9 KG/SQ M/25 MM THICKNESS).

COMMITMENTS

NONE

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 PROJECT: \\PROJECTNAME
 OFFICE: \\OFFICE
 DATE: 3/16/2020

REV. - MS

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	DRAWN - _____	REVISED - _____
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PLOT DATE = 3/16/2020	DATE - _____	REVISED + _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	2
			CONTRACT NO. 76N29	
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	CONSTR. CODE
				ROADWAY	URBAN
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	7730	7730	
40600990	TEMPORARY RAMP	SQ YD	182.2	182.2	
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	1447	1447	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	17176	17176	
44201389	CLASS C PATCHES, TYPE II, 13 INCH	SQ YD	53	53	
44201394	CLASS C PATCHES, TYPE III, 13 INCH	SQ YD	25	25	
44213204	TIE BARS 3/4"	EACH	52	52	
67100100	MOBILIZATION	L SUM	1	1	
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	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	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	CONSTR. CODE
				ROADWAY	URBAN
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1620	1620	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	177	177	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	578.3	578.3	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	16230	16230	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	33	33	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	89	89	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	578.3	578.3	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16230	16230	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	33	33	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	89	89	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	173	173	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	173	173	
* 80300100	LOCATING UNDERGROUND CABLE	FOOT	50	50	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	851	851	

* SPECIALTY ITEM

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PLOT DATE = 3/13/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	3
CONTRACT NO. 76N29			ILLINOIS FED. AID PROJECT	

100%
STATE

CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY
				0005 URBAN
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	6039	6039
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	8346	8346
Z0034105	MATERIAL TRANSFER DEVICE	TON	1447	1447

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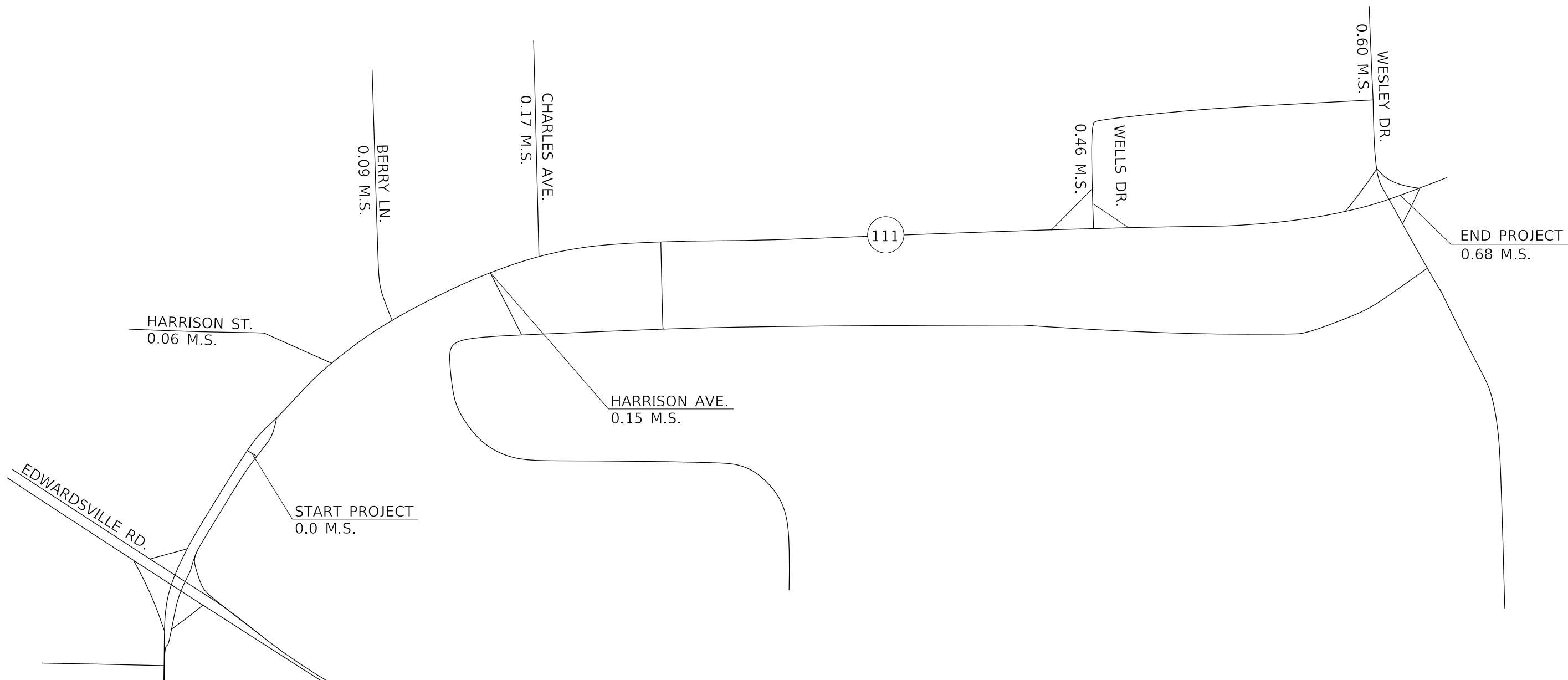
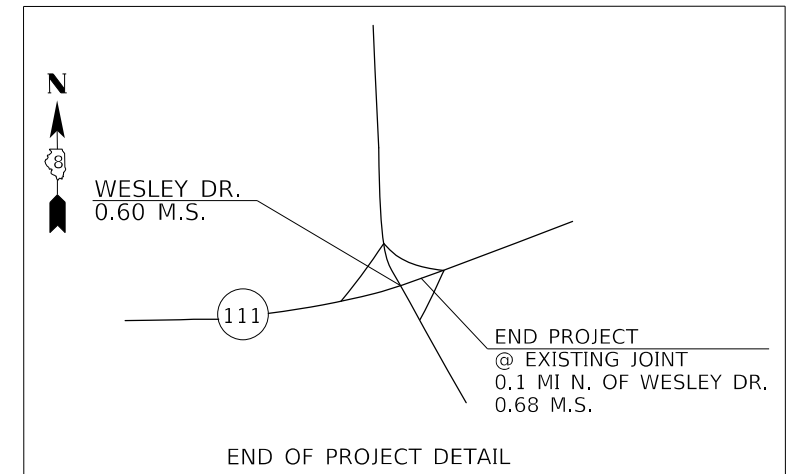
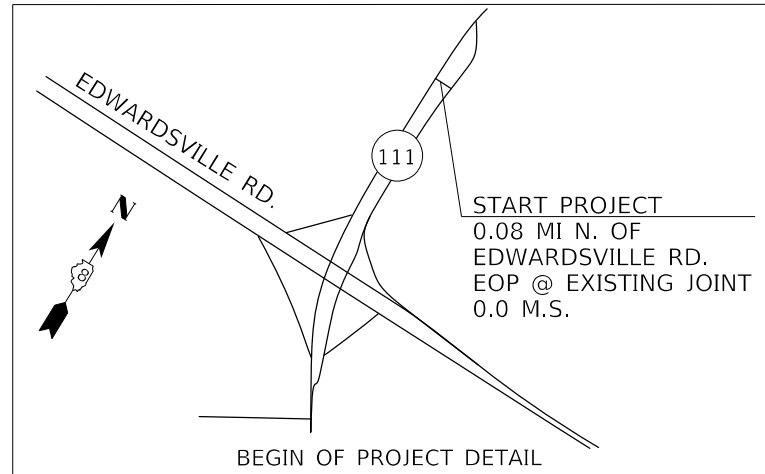
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PLOT DATE = 3/13/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	4
CONTRACT NO. 76N29			ILLINOIS FED. AID PROJECT	



NOT TO SCALE

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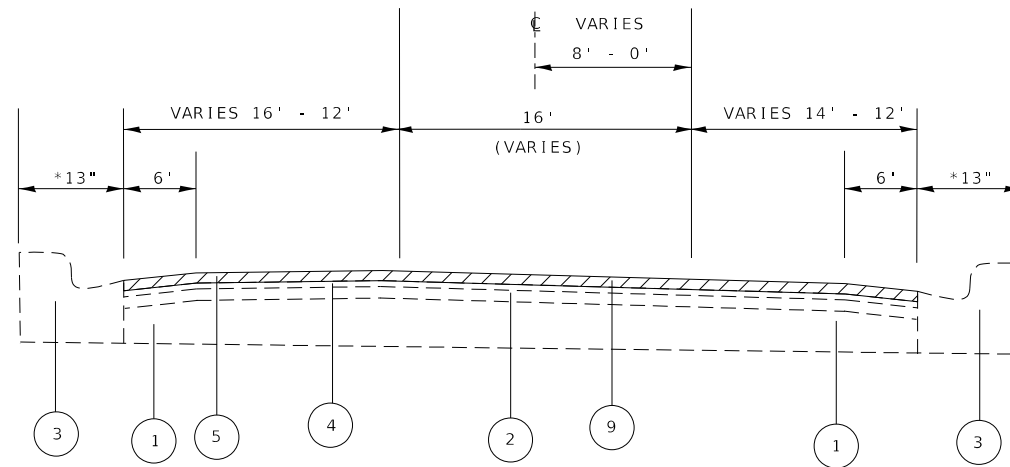
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PLOT DATE = 3/11/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAP

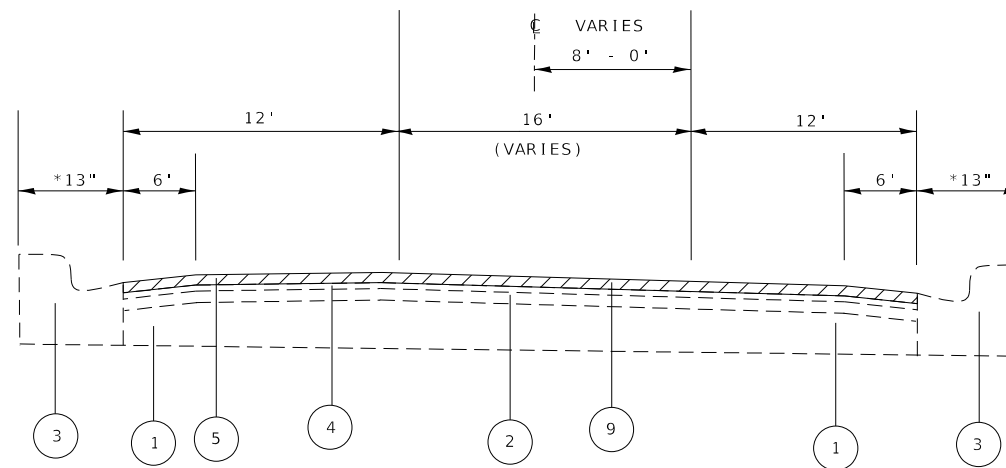
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F.A.S. F.A.U. 582	SECTION 107-2RS	COUNTY MADISON	TOTAL SHEETS 16	SHEET NO. 5
CONTRACT NO. 76N29				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

IL 111
0.0 M.S. TO 0.03 M.S.



EXISTING TYPICAL SECTION

IL 111
0.03 M.S. TO 0.16 M.S.

LEGEND

- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 2"
- ③ EXISTING CURB & GUTTER
- ④ EXISTING LEVELING BINDER (MACHINE METHOD), TYPE 2, 3/4"
- ⑤ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIX D, CLASS 1, TYPE 2, 1 1/2"
- ⑥ EXISTING BITUMINOUS SHOULDERS, 6"
- ⑦ EXISTING AGGREGATE SHOULDERS, TYPE, 6"
- ⑧ EXISTING EMBANKMENT
- ⑨ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- ⑩ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ⑪ PROPOSED POLY SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑫ PROPOSED THERMOPLASTIC PAVEMENT MARKING, LINE 4"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT

* CURB AND GUTTER ENDS AND 8' EARTH SHOULDERS BEGINS AT 0.06 M.S. LT. AND 0.16 M.S. RT. EXISTING BITUMINOUS AND AGGREGATE SHOULDERS BEGIN WHERE CURB AND GUTTER END.

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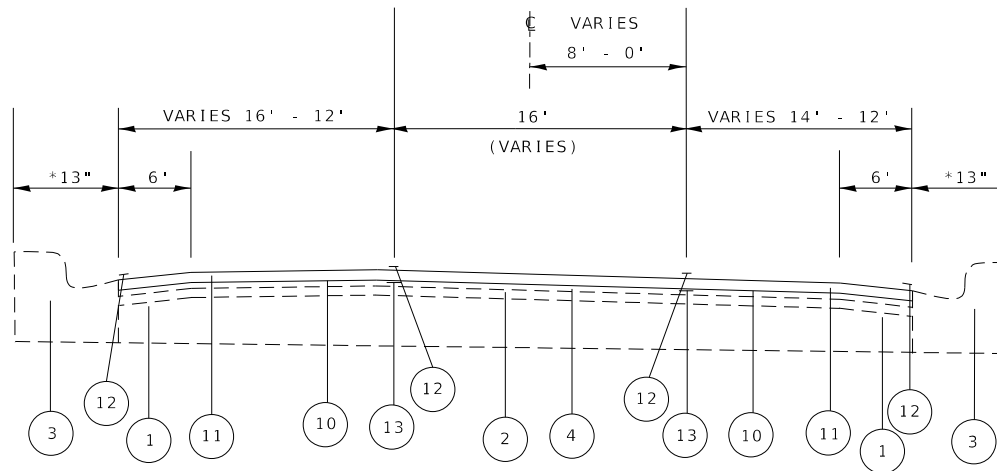
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PLOT DATE = 3/11/2020		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

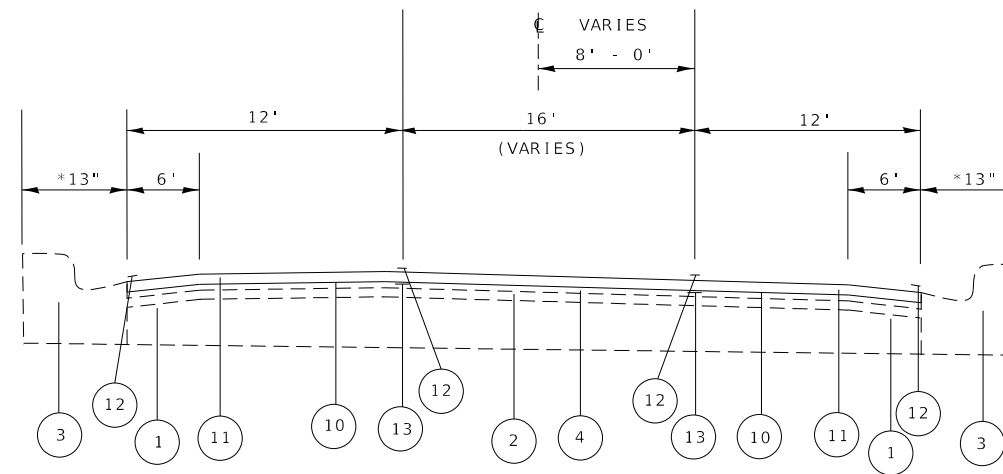
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F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	6
CONTRACT NO. 76N29				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION

IL 111
0.0 M.S. TO 0.03 M.S.



PROPOSED TYPICAL SECTION

IL 111
0.03 M.S. TO 0.16 M.S.

LEGEND

- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 2"
- ③ EXISTING CURB & GUTTER
- ④ EXISTING LEVELING BINDER (MACHINE METHOD), TYPE 2, 3/4"
- ⑤ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIX D, CLASS I, TYPE 2, 1 1/2"
- ⑥ EXISTING BITUMINOUS SHOULDERS, 6"
- ⑦ EXISTING AGGREGATE SHOULDERS, TYPE, 6"
- ⑧ EXISTING EMBANKMENT
- ⑨ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- ⑩ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ⑪ PROPOSED POLY SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑫ PROPOSED THERMOPLASTIC PAVEMENT MARKING, LINE 4"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT

* CURB AND GUTTER ENDS AND 8' EARTH SHOULDERS BEGINS AT 0.06 M.S. LT. AND 0.16 M.S. RT. EXISTING BITUMINOUS AND AGGREGATE SHOULDERS BEGIN WHERE CURB AND GUTTER END.

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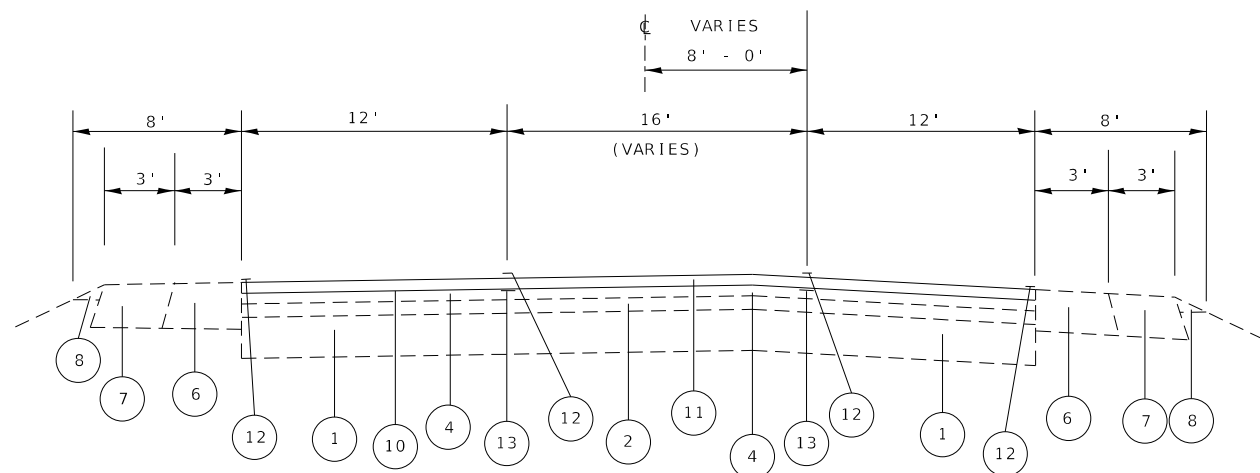
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	DRAWN - _____	REVISED - _____
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PLOT DATE = 3/11/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

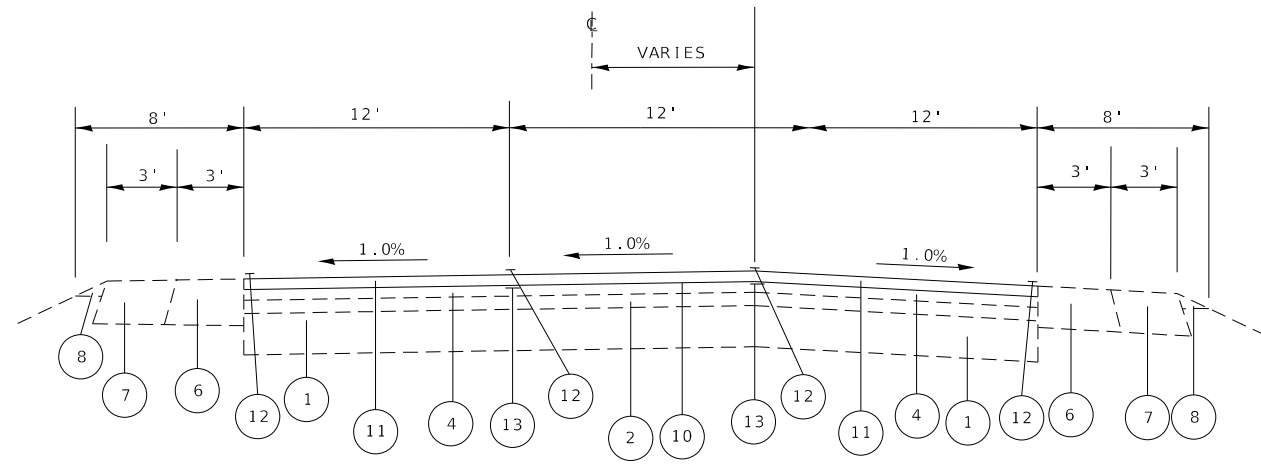
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F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	7
CONTRACT NO. 76N29				
ILLINOIS FED. AID PROJECT				



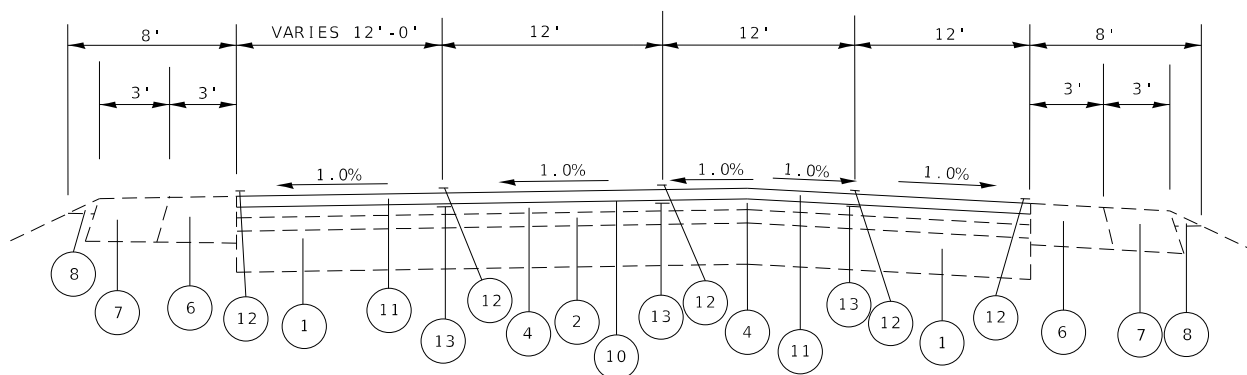
PROPOSED TYPICAL SECTION

IL 111
0.16 M.S. TO 0.36 M.S.



PROPOSED TYPICAL SECTION

IL 111
0.51 M.S. TO 0.61 M.S.



PROPOSED TYPICAL SECTION

IL 111
0.36 M.S. TO 0.51 M.S.
0.61 M.S. TO 0.68 M.S.

LEGEND

- ① EXISTING CONCRETE PAVEMENT, 10"
- ② EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 2"
- ③ EXISTING CURB & GUTTER
- ④ EXISTING LEVELING BINDER (MACHINE METHOD), TYPE 2, 3/4"
- ⑤ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIX D, CLASS 1, TYPE 2, 1 1/2"
- ⑥ EXISTING BITUMINOUS SHOULDERS, 6"
- ⑦ EXISTING AGGREGATE SHOULDERS, TYPE, 6"
- ⑧ EXISTING EMBANKMENT
- ⑨ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" [hatched pattern]
- ⑩ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ⑪ PROPOSED POLY SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑫ PROPOSED THERMOPLASTIC PAVEMENT MARKING, LINE 4"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT

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 OFFICE: CHICAGO
 DATE: 3/16/2020

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PLOT DATE = 3/16/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2R5	MADISON	16	9
CONTRACT NO. 76N29				
ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE								
MILE STATION TO MILE STATION			DIMENSIONS		* HMA SURFACE REMOVAL 1 1/2 "	LONGITUDINAL JOINT SEALANT	BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HMA SURFACE COURSE 1L-9.5 MIX D N70
			LENGTH	WIDTH				
			FOOT	FOOT				
0.00	-	0.03	159	46	813	318	366	69
0.03	-	0.16	687	40	3054	1374	1374	257
0.16	-	0.36	1056	41	4811	2112	2165	405
0.36	-	0.51	792	49	4312	2376	1941	363
0.51	-	0.61	528	37	2171	1056	977	183
0.61	-	0.68	370	49	2015	1110	907	170
TOTAL :					17176	8346	7730	1447

* MILLED AN ADDITIONAL 6" ON EACH SIDE WHERE THERE IS NO EXISTING CURB AND GUTTER TO ALLOW FOR PROPOSED PAVEMENT MARKING.

TEMPORARY RAMP SCHEDULE						
LOCATION		DESCRIPTION	EXISTING MATERIAL	TEMPORARY RAMPS, 1.50"		
MILE STATION	NAME			WIDTH	LENGTH	SQ YD
0.00	BEGIN OF PROJECT	MAINLINE	HMA	46	5	25.6
0.06	HARRISON ST.	LEFT	HMA	155	2	34.4
0.09	BERRY LN.	LEFT	HMA	62	2	13.8
0.15	HARRISON ST.	RIGHT	HMA	110	2	24.4
0.17	CHARLES AVE.	LEFT	HMA	83	2	18.4
0.46	WELLS	LEFT	HMA	165	2	36.7
0.60	WESLEY DR.	LEFT	HMA	70	2	15.6
0.68	END OF PROJECT	MAINLINE	HMA	24	5	13.3
TOTAL :						182.2

1:40 TAPERS WILL NOT BE CONSTRUCTED AT SIDEROADS. 2' TEMPORARY RAMPS WILL BE USED TO MINIMIZE IMPACTS TO THE MAINLINE TRAFFIC.

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	DRAWN - _____	REVISED - _____
PLOT SCALE = 2,0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 3/16/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	10
CONTRACT NO. 76N29				
SCALE: _____		ILLINOIS FED. AID PROJECT		

SCALE: _____ SHEET 1 OF 4 SHEETS STA. _____ TO STA. _____

PAVEMENT MARKING SCHEDULE

MILE STATION TO MILE STATION	LENGTH	SHORT TERM PAVEMENT MARKING			TEMPORARY & THERMOPLASTIC PAVEMENT MARKING							RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY) (AMBER)	TEMPORARY PAVEMENT MARKING REMOVAL	
		4" SKIP-DASH WHITE	4" SKIP-DASH YELLOW	SHORT TERM PAVEMENT MARKING REMOVAL	4" SOLID WHITE	4" SOLID YELLOW	4" SKIP-DASH WHITE (ABBREVIATED)	4" SKIP-DASH YELLOW	NO PASSING ZONE		12" SOLID YELLOW				
									4" SOLID YELLOW	DIR					FOOT
NORTHBOUND															
0.000 - 0.013	70				70										24
0.030 - 0.138	571				571										191
0.160 - 0.340	951				951										317
0.360 - 0.590	1215				1215										405
0.600 - 0.608	43				43										15
0.620 - 0.680	317				317										106
SOUTHBOUND															
0.000 - 0.002	11				11										4
0.020 - 0.040	106				106										36
0.060 - 0.090	159				159										53
0.100 - 0.170	370				370										124
0.180 - 0.340	845				845										282
0.350 - 0.430	423				423										141
0.360 - 0.430	370	80		13	370										124
0.430 - 0.440	53	20		3			20								7
0.440 - 0.450	53	20		3	53										18
0.460 - 0.480	106	20		3	106										36
0.470 - 0.580	581				581										194
0.480 - 0.520	212	40		7			60								20
0.590 - 0.600	53				53										18
0.610 - 0.640	159				159										53
0.610 - 0.680	370				370										124
0.640 - 0.670	159						40								14
BI-DIRECTIONAL LANE															
0.000 - 0.008	43		40	3		43				BOTH-2	172	33	2	2	83
0.008 - 0.280	1437		560	47		2874		720					72	72	1198
0.280 - 0.310	159		80	7						BOTH-2	636		8	8	212
0.310 - 0.340	159		80	7	159					SB-2	318		8	8	159
0.350 - 0.370	106	20	20	7	106					NB-2	212		5	5	106
0.370 - 0.550	951		360	30		1902		480					48	48	794
0.550 - 0.590	212	40	40	13	212	212		60					11	11	162
0.610 - 0.612	15	20	20	7	15								1	1	5
0.610 - 0.650	212	40	40	13	212					NB-2	424		11	11	212
0.650 - 0.660	53	20	20	7				20		NB-2	106		3	3	42
0.660 - 0.680	106	20	20	7				30		BOTH-2	424		5	5	152
SUBTOTAL		340	1280	177	7477	5031	170	1260			2292	33	173	173	5431
TOTAL (1)			1620	177				16230			33	173	173	5431	

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PLOT SCALE = 2,000' / in.	DRAWN - _____	REVISED - _____
PLOT DATE = 3/11/2020	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: _____ SHEET 2 OF 4 SHEETS STA. _____ TO STA. _____

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	11
CONTRACT NO. 76N29			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING SCHEDULE				
MILE STATION TO MILE STATION	LENGTH	TEMPORARY & THERMOPLASTIC PAVEMENT MARKING		TEMPORARY PAVEMENT MARKING REMOVAL
		24" SOLID WHITE	LETTERS AND SYMBOLS	
	FOOT	FOOT	SQ. FT.	SQ. FT.
STOP BAR				
@0.34 - NB	24	24		8
@0.35N - SB	12	12		4
@ 0.35 - SB	12	12		4
@ 0.61 (WESLEY)	17	17		6
@ 0.61 - SB	12	12		4
@ 0.61 - SB	12	12		4
BI-DIRECT/LTL (ARROWS)				
@ 0.012 - NB			15.6	16
@ 0.012 - SB			15.6	16
@ 0.05 - SB			15.6	16
@ 0.09 - NB			15.6	16
@ 0.09 - SB			15.6	16
@ 0.13 - NB			15.6	16
@ 0.13 - SB			15.6	16
@ 0.16 - NB			15.6	16
@ 0.21 - NB			15.6	16
@ 0.22 - SB			15.6	16
@ 0.24 - NB			15.6	16
@ 0.25 - SB			15.6	16
@ 0.27 - NB			15.6	16
@ 0.27 - SB			15.6	16
@ 0.32 - NB			15.6	16
@ 0.36 - SB			15.6	16
@ 0.37 - SB			15.6	16
@ 0.40 - NB			15.6	16
@ 0.40 - SB			15.6	16
@ 0.43 - NB			15.6	16
@ 0.43 - SB			15.6	16
@ 0.46 - NB			15.6	16
@ 0.47 - SB			15.6	16
@ 0.50 - NB			15.6	16
@ 0.50 - SB			15.6	16
@ 0.53 - NB			15.6	16
@ 0.53 - SB			15.6	16
RTL (ARROWS)				
@ 0.38 - SB			15.6	16
@ 0.40 - SB			15.6	16
@ 0.41 - SB			15.6	16
@ 0.43 - SB			15.6	16
@ 0.46 - SB			15.6	16
THRU (ARROWS)				
@ 0.61 - SB			11.5	12
COMBINATION (ARROWS)				
@ 0.58 - NB			26.0	26
RIGHT TURN LANE "ONLY"				
@ 0.39 - SB			20.8	21
@ 0.64 - SB			20.8	21
SUBTOTAL		89	578.3	608
TOTAL (2)		89	578.3	608

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PLOT DATE = 3/11/2020	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: _____ SHEET 3 OF 4 SHEETS STA. _____ TO STA. _____

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	12
CONTRACT NO. 76N29				
ILLINOIS FED. AID PROJECT				

CLASS C PATCHING SCHEDULE							
MILE STATION	DIRECTION	LOCATION	DIMENSIONS		TYPE II	TYPE III	** TIE BARS
			LENGTH	WIDTH			
			FOOT	FOOT			
0.086	SB	INSIDE	4	12	5		4
0.086	NB/SB	BI-DIRECTIONAL	4	16	7		4
0.086	NB	OUTSIDE	4	12	5		4
0.157	NB/SB	BI-DIRECTIONAL	6	16	10		6
0.157	NB	OUTSIDE	6	12	8		6
0.208	NB/SB	BI-DIRECTIONAL	12	16		22	12
0.208	NB	OUTSIDE	10	12	13		10
SUBTOTAL					48	22	46
12% SUBTOTAL*					5	3	6
TOTAL					53	25	52

*NOTE: AN ADDITIONAL 12% HAS BEEN ADDED TO THE FINAL PATCHING QUANTITY TO ALLOW FOR WINTER DAMAGE.

**NOTE: TIE BARS ARE TO BE PLACED LONGITUDINALLY TO THE ADJACENT LANE OF PAVEMENT OR CURB AND GUTTER @ 24 INCH CENTERS.

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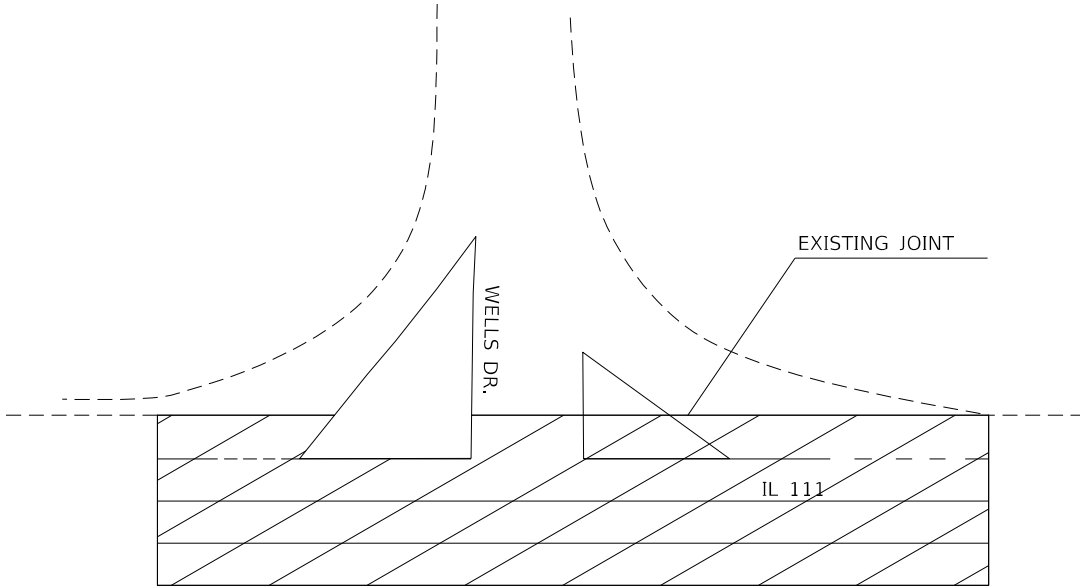
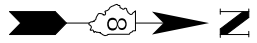
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PLOT DATE = 3/16/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

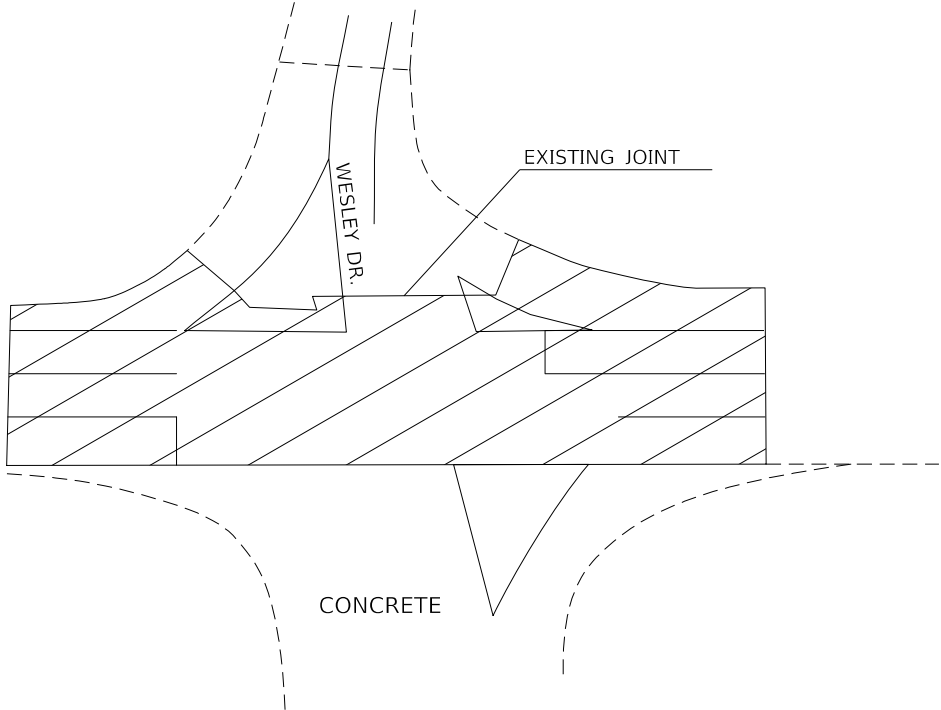
SCHEDULE OF QUANTITIES

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	13
CONTRACT NO. 76N29				
ILLINOIS FED. AID PROJECT				

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



WELLS DRIVE
@ 0.46 M.S.



WESLEY DRIVE
@ 0.60 M.S.

INTERSECTION RESURFACING LIMITS

NOTE: (RESURFACING CONTINUES THROUGH IL 111)

NOT TO SCALE

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PLOT DATE = 3/11/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

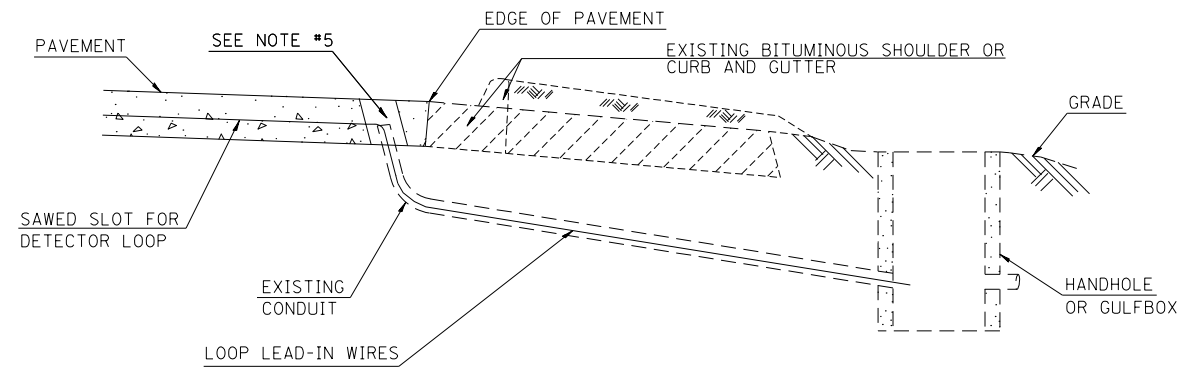
INTERSECTION DETAILS	
SCALE: _____	SHEET 1 OF 1 SHEETS
STA. _____	TO STA. _____

F.A.S. F.A.U. 582	SECTION 107-2R5	COUNTY MADISON	TOTAL SHEETS 16	SHEET NO. 14
CONTRACT NO. 76N29				
ILLINOIS FED. AID PROJECT				

NOTES:

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

SCHEDULE OF QUANTITIES			TOTAL QUANTITIES	IL 143 & WESLEY DR.
CODE NO	ITEM	UNIT		
80300100	LOCATING UNDERGROUND CABLE	FOOT	50	50
88600600	DETECTOR LOOP REPLACEMENT	FOOT	851	851



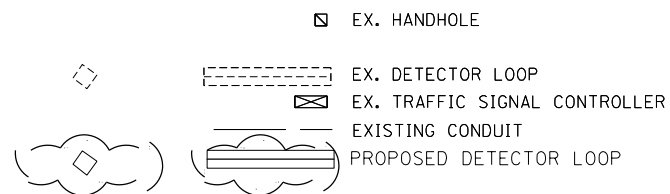
DETAIL A
(NO SCALE)

INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

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

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

DETECTOR LOOP REPLACEMENT LEGEND



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PLOT DATE = 3/13/2020	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

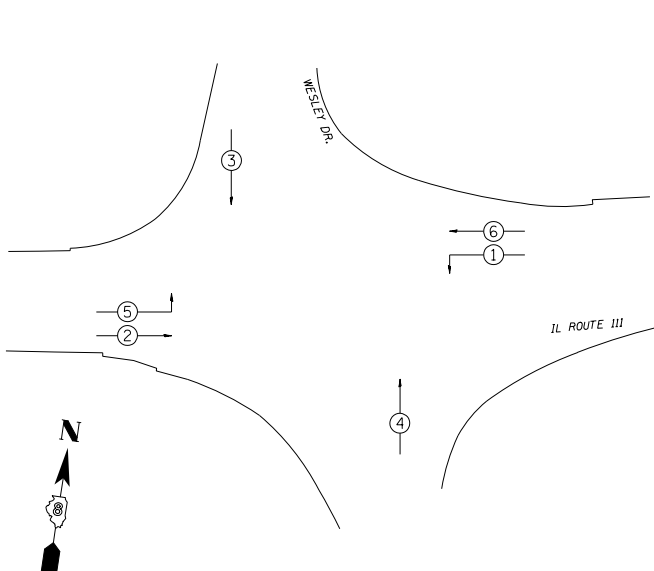
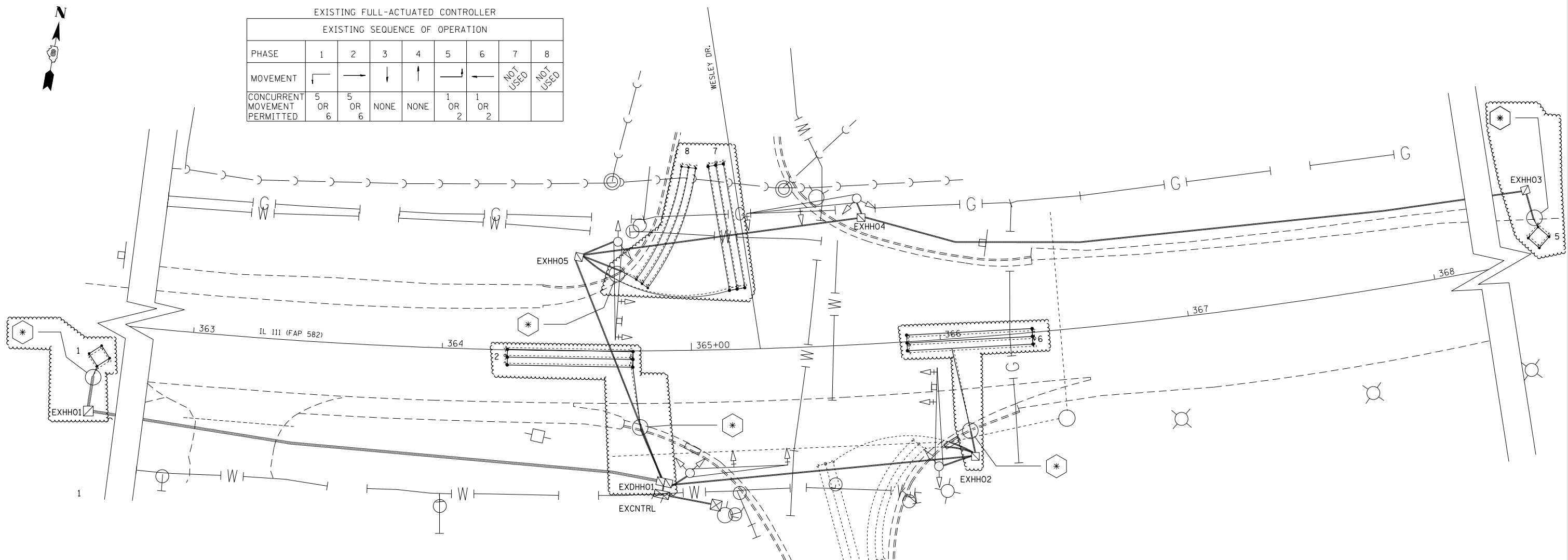
DETECTOR LOOP REPLACEMENT
GENERAL NOTES, SCHEDULE OF QUANTITIES,
DETAIL AND LEGEND

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2R5	MADISON	16	15
CONTRACT NO. 76N29			ILLINOIS FED. AID PROJECT	



EXISTING FULL-ACTUATED CONTROLLER								
EXISTING SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT							NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2		



PHASE DESIGNATION DIAGRAM

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB CCO	2	6' x 6'	6	348.16	2.48
2. EB LT CD	5	6' x 50'(Q)	3-6-3	800.08	1.91
3. NB THRU CD	4	6' x 50'(Q)	3-5-3	891.10	2.62
4. NB RT CD	4	6' x 50'(Q)	3-5-3	929.90	2.42
5. WB CCO	6	6' x 6'	7	499.35	3.45
6. WB LT CD	6	6' x 50'(Q)	3-6-3	827.36	2.53
7. SB THRU CD	3	6' x 50'(Q)	3-6-3	825.82	2.50
8. SB RT CD	3	6' x 50'(Q)	3-6-3	817.02	2.30

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 = 3/13/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 111 & WESLEY RD.
DETECTOR LOOP REPLACEMENT PLAN**

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	107-2RS	MADISON	16	16
CONTRACT NO. 76N29				
ILLINOIS FED. AID PROJECT				