

01-15-2021 LETTING ITEM 107

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P./F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	117RS-6	MADISON	19	1
		ILLINOIS	CONTRACT NO. 76M48	
* F.A.P. 592/F.A.U. 8885				

D-98-062-19



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

TRAFFIC DATA

HORSESHOE LAKE RD. TO STALLINGS RD.	
ADT (CONSTRUCTION YR.):	7200
MU%:	2.4
SU%:	3.1

ADT (CONSTRUCTION YR.):	STALLINGS RD. TO S. OF I-270	I-270 TO N. OF CHAIN OF ROCKS RD.
MU%:	1.8	1.1
SU%:	3.7	2.5

BRIDGE OMISSIONS

STRUCTURE NO.	LENGTH
060-0085	340 FT.
060-0086	320 FT.
060-0087	120 FT.
060-0088	180 FT.

PROPOSED  
HIGHWAY PLANS

FAP 592/FAU 8885 (IL-157)  
SECTION 117RS-6  
FEDERAL PROJECT # NHPP-52XN(475)  
3P - STANDARD AND DESIGN OVERLAY  
MADISON COUNTY

C-98-081-19

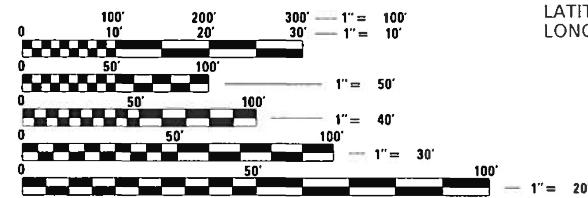
END PROJECT  
0.1 MI N OF CHAIN OF  
ROCKS RD. - 5.10 M.S.  
LATITUDE: 38.76308436  
LONGITUDE: -90.00850818

BRIDGE OMISSIONS  
SN 060 - 0086/0085

BRIDGE OMISSIONS  
SN 060 - 0087

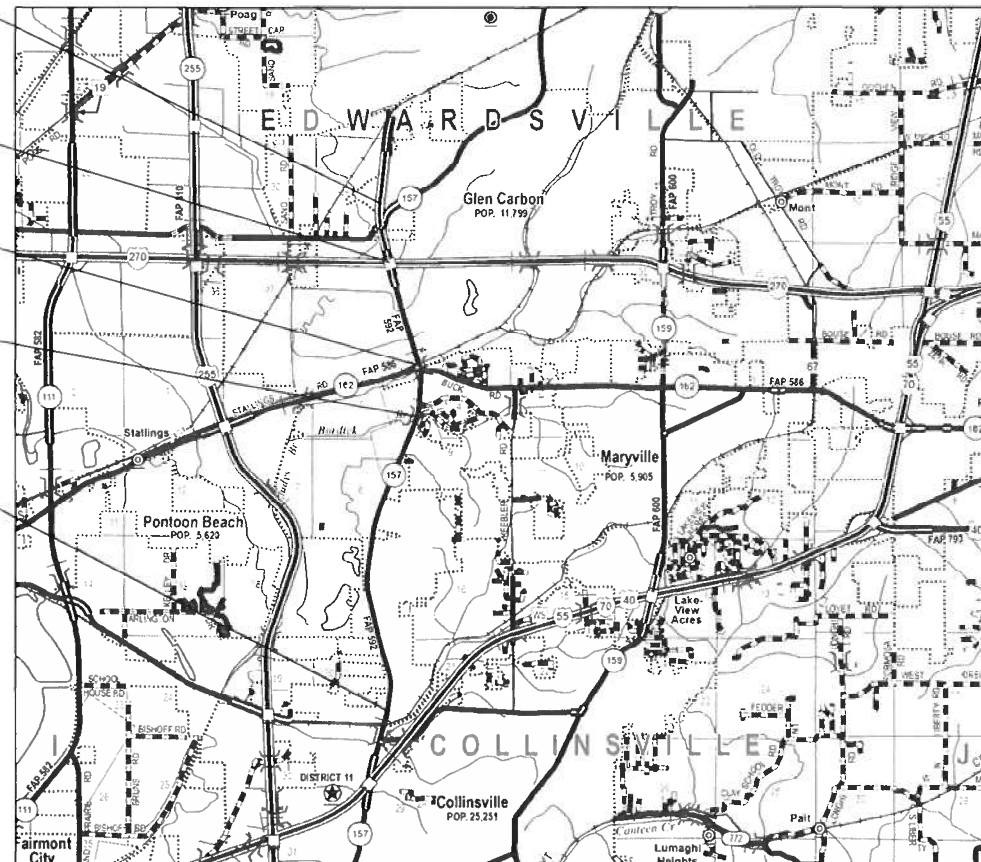
BRIDGE OMISSIONS  
SN 060 - 0088

BEGIN PROJECT  
0.2 MI N OF HORSESHOE  
LAKE RD. - 0.0 M.S.  
LATITUDE: 38.69246150  
LONGITUDE: -90.00795811



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



R 8 W

LOCATION MAP



GROSS LENGTH = 26,928.00 FT. = 5.10 MILE  
NET LENGTH = 25,968.00 FT. = 4.92 MILE

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

CONTRACT NO. 76M48

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct. 15, 2020  
*Keith Roberts*  
REGIONAL ENGINEER

December 4, 2020  
*Scott A. Elk*  
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020  
*James J. Gu*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

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8-12	SCHEDULE OF QUANTITIES
14-18	DETECTOR LOOP DETAILS
19	MISCELLANEOUS DETAILS

## HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
442201-03	CLASS C & D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORTTIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK IN SERIES, FOR SPEEDS ≥ 45 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701456-05	PARTIAL EXIT RAMP CLOSURE, FREEWAY/EXPRESSWAY
701502-09	URBAN LANE CLOSURE, 2L, 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
720001-01	SIGN PANEL MOUNTING DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTOR LOOPS

## GENERAL NOTES

1. THE FOLLOWING UTILITIES ARE KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY	ABOVE GROUND	BELOW GROUND
*AMEREN ILLINOIS (GAS & ELECTRIC)	X	X
*AT & T ILLINOIS (COMMUNICATIONS)	X	X
*AT & T CORPORATUON (COMMUNICATIONS)	X	X
*CHARTER COMMUNICATIONS, INC. (CABLE TV)	X	X
*DEPARTMENT OF CENTRAL MANAGEMENT SERVICES (COMMUNICATIONS)	X	X
*CITY OF COLLINSVILLE (WATER & SANITARY SEWER)		X
*CONSOLIDATED COMMUNICATIONS (COMMUNICATIONS)	X	X
*ENABLE MIDSTREAM PARTNERS (PIPELINE)		X
*VILLAGE OF GLEN CARBON (WATER & SANIRARY SEWER)		X
*ILLINOIS AMERICAN WATER COMPANY (WATER)		X
*VILLAGE OF MARYVILLE (WATER & SANITARY SEWER)		X
*VERIZON BUSINESS (COMMUNICATIONS)	X	X
*SOUTHWESTERN ELECTRIC COOPERATIVE, INC. (ELECTRIC)	X	X
*WINDSTREAM KDL, INC. (COMMUNICATIONS)	X	X

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

- PROPOSED PAVEMENT MARKING SHALL BE PLACED IN THE SAME LOCATION AS EXISTING AS DIRECTED BY THE ENGINEER.
- ONLY REMOVAL FROM FINAL SURFACE SHALL BE PAID FOR AS SHORT TERM PAVEMENT MARKING REMOVAL.
- 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.
- NO OVERNIGHT LANE CLOSURES WILL BE PERMITTED.
- AN ESTIMATED QUANTITY OF 19,363 TONS OF CUTTINGS FROM THE HOT-MIX ASPHALT SURFACE REMOVAL OPERATION IS ANTICIPATED. WIDTHS AS MEASURED IN THE FIELD.
- THE QUALITY CONTROL FOR PERFORMANCE ITEMS AND QUANTITIES ARE AS FOLLOWS:  
BINDER - 8790 TONS  
HMA SURFACE COURSE - 8301 TONS
- FLAGGERS SHALL BE REQUIRED AT ALL TIMES DURING PATCHING OPERATIONS.
- HIGH EARLY STRENGTH CONCRETE FOR PAVEMENT PATCHING WILL BE ALLOWED.
- 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.
- AN EMPTIED MATERIAL TRANSFER DEVICE IS ALLOWED TO CROSS STRUCTURES SN 060-2447, SN 060-0088, SN 060-2448, SN 060-2449, SN 060-0087, SN 060-0086, SN 060-0085 AND SN 060-2478.
- 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 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 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.

## MIXTURE REQUIREMENTS

ROUTE	FAP 592/ FAU 8885 (IL 157)
SECTION	117RS-6
COUNTY	MADISON
CONTRACT	76M48

ADT (CONSTRUCTION YR.):	23000
MU %:	1.1
SU %:	2.5
20 YR ESAL 'S:	2.43

DESCRIPTION	STANDARD & DESIGN OVERLAY-RESURFACING ON IL 157 FROM 0.2 MI N OF HORSESHOE LAKE RD. TO 0.1 MI N. OF CHAIN OF ROCKS RD.
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MIXTURE USE	SURFACE	BINDER	BINDER	PARTIAL DEPTH PATCH
AC/PG	PG 64-22	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=70	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5 FG	IL 19.0	IL 9.5
FRICITION AGG	MIXTURE "D"	MIXTURE "C"	MIXTURE "B"	MIXTURE "D"
QUALITY MGMT PROGRAM	QCP	QCP	QCP	QC/QA

MIXTURE USE	PATCHING	SHOULDERS (LOWER)	SHOULDERS (SURFACE)
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=70	4.0% @ Ndes=30	4.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)	IL 19.0	IL 19.0L	IL 9.5L
FRICITION AGG	MIXTURE "B"		
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA

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

REV. - MS

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PLOT DATE = 10/16/2020	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. 592/ F.A.U. 8885

F.A.P./F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	2
			CONTRACT NO. 76M48	
			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	67304	67304
40600990	TEMPORARY RAMP	SQ YD	1484	1484
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	4575	4575
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	4215	4215
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	8301	8301
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	68866	68866
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	41705	41705
44000300	CURB REMOVAL	FOOT	371	371
44003100	MEDIAN REMOVAL	SQ FT	227	227
44200168	PAVEMENT PATCHING, TYPE II, 14 INCH	SQ YD	357	357
44200172	PAVEMENT PATCHING, TYPE III, 14 INCH	SQ YD	86	86
44200174	PAVEMENT PATCHING, TYPE IV, 14 INCH	SQ YD	162	162
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1440	1440

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE ROADWAY 0005 URBAN
48203100	HOT-MIX ASPHALT SHOULDERS	TON	2826	2826
60600605	CONCRETE CURB, TYPE B	FOOT	371	371
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	227	227
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	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
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
X4420900	LONGITUDINAL PARTIAL DEPTH PATCHING	TON	107	107

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PLOT DATE = 10/16/2020	DATE - _____	REVISED + _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

* F.A.P. 592/F.A.U. 8885				
F.A.P./ F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117R5-6	MADISON	19	3
CONTRACT NO. 76M48				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE ROADWAY 0005 URBAN	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	11688	11688	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1334	1334	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	297	297	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	90650	90650	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	220	220	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	227	227	
* 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	11	11	
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	27.5	27.5	
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	3	3	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	297	297	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	90650	90650	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	220	220	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	227	227	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	370	370	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE ROADWAY 0005 URBAN	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	370	370	
* 80300100	LOCATING UNDERGROUND CABLE	FOOT	110	110	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1180	1180	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	400	400	
X4405020	LONGITUDINAL PARTIAL DEPTH REMOVAL 2"	FOOT	2128	2128	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	30701	30701	
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	52800	52800	
Ø Z0076600	TRAINEES	hour	1500	1500	
Z0034105	MATERIAL TRANSFER DEVICE	TON	17091	17091	
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	hour	1500	1500	
* Z0036200	PAINT CURB	FOOT	462	462	

\* SPECIALTY ITEM

Ø 0042

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REV. - MS

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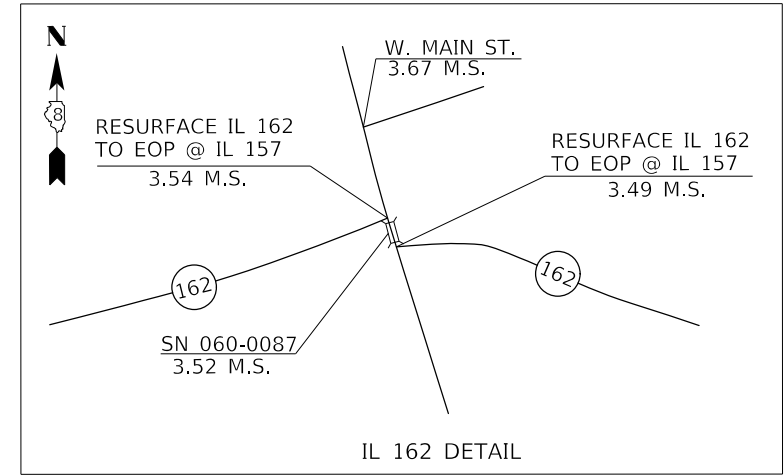
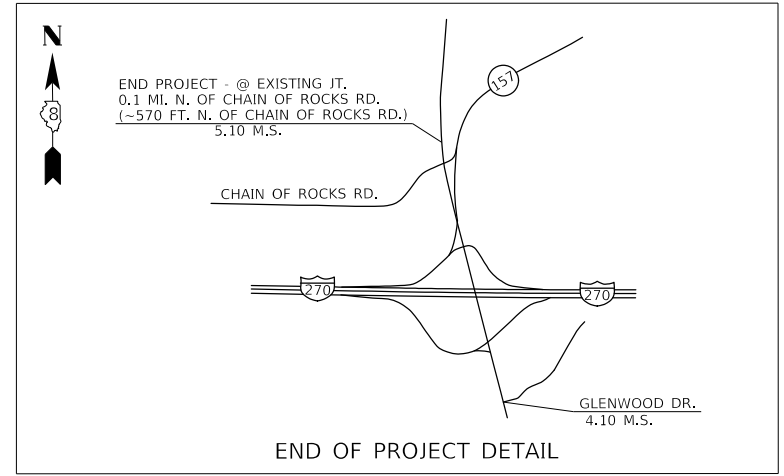
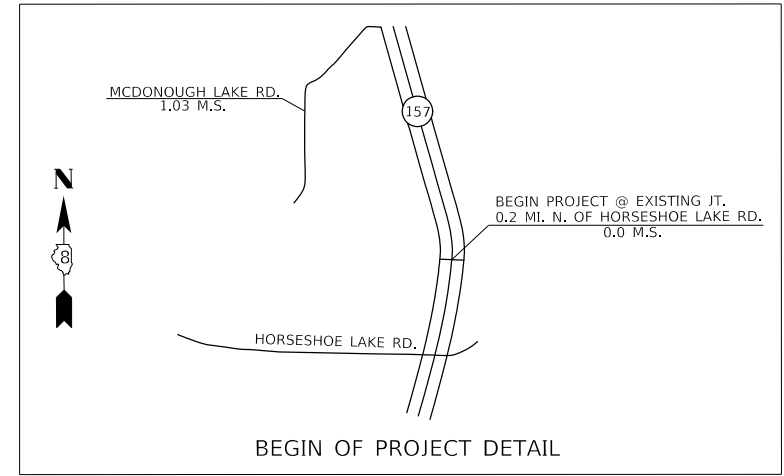
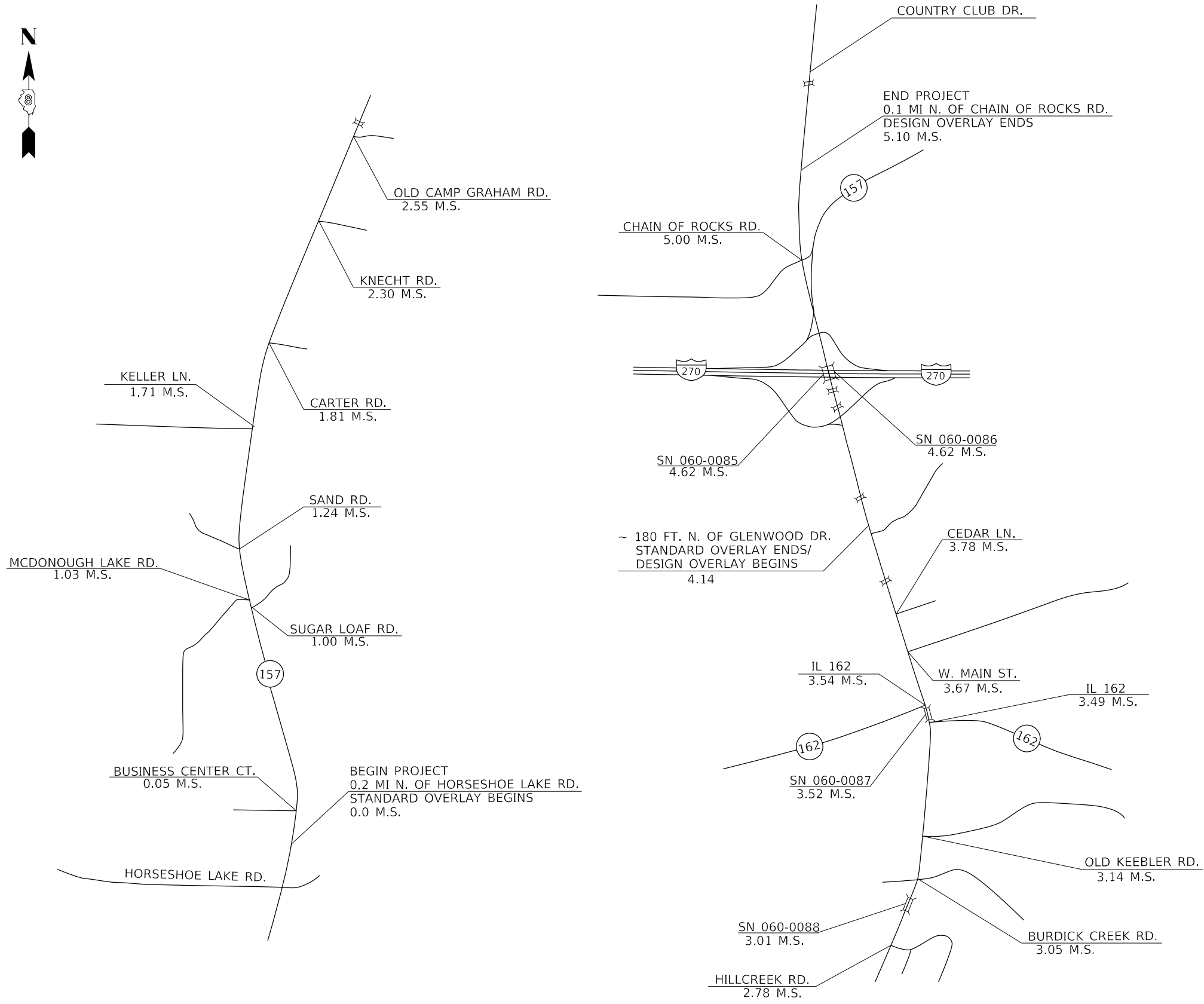
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

* F.A.P. 592/ F.A.U. 8885				
F.A.P./ F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	4
			CONTRACT NO. 76M48	
		ILLINOIS FED. AID PROJECT		





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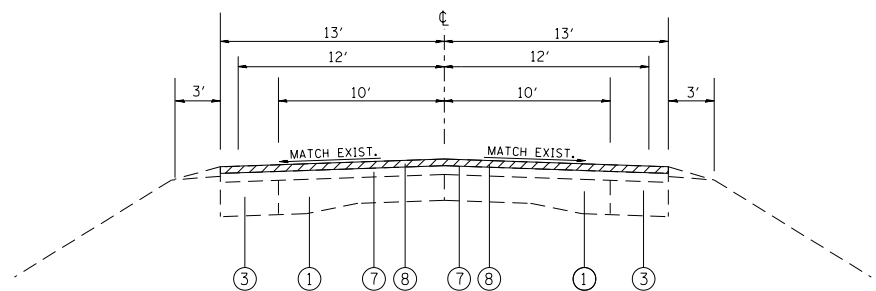
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PLOT DATE = 10/15/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP**

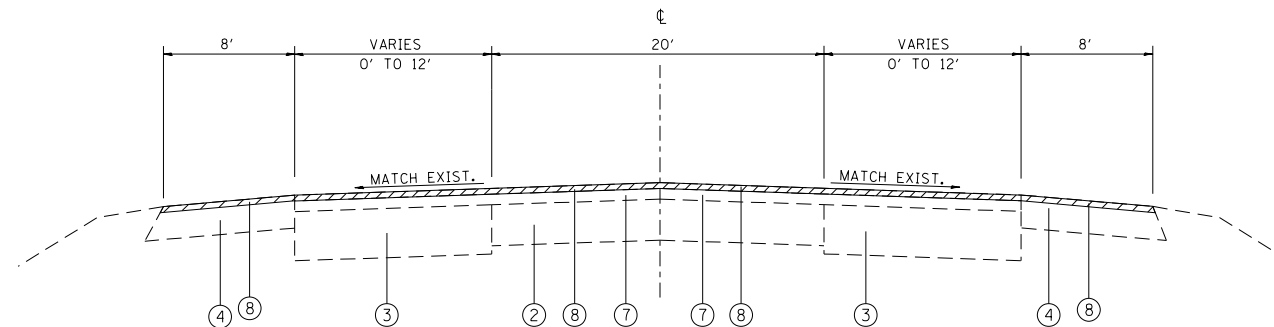
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* F.A.P. 592/ F.A.U. 8885			
F.A.P./F.A.U.	SECTION	COUNTY	TOTAL SHEETS
*	117RS-6	MADISON	19
			SHEET NO. 5
			CONTRACT NO. 76M48
ILLINOIS FED. AID PROJECT			



**EXISTING TYPICAL SECTION IL 157**

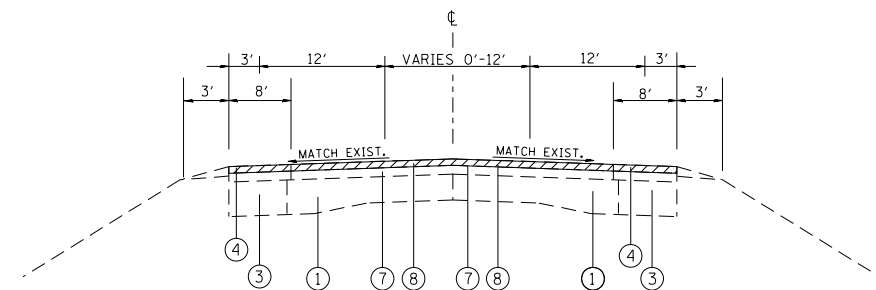
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 2.83 M.S. - 2.99 M.S.  
 3.04 M.S. - 3.05 M.S.  
 3.13 M.S. - 3.15 M.S.  
 3.16 M.S. - 3.48 M.S.  
 3.78 M.S. - 4.11 M.S.



**EXISTING TYPICAL SECTION IL 157**

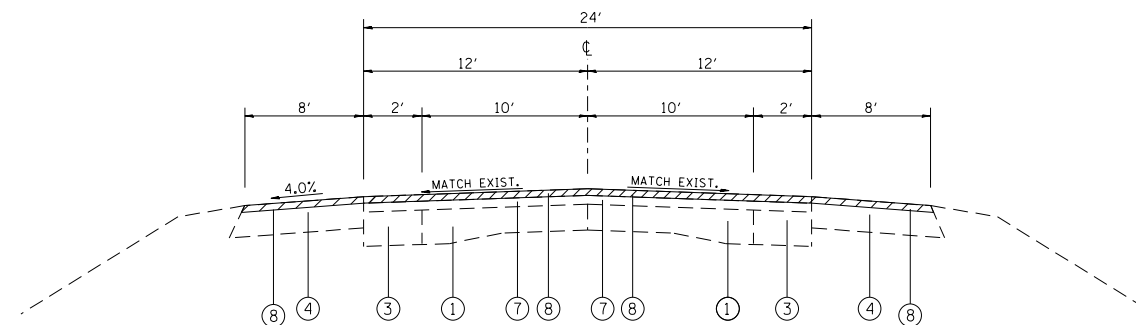
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 3.05 M.S. - 3.13 M.S.  
 3.15 M.S. - 3.16 M.S.  
 3.53 M.S. - 3.78 M.S.  
 4.11 M.S. - 4.14 M.S.

NOTE: THE SB RIGHT TURN LANE (CONCRETE) AT W. MAIN STREET WILL NOT BE RESURFACED.



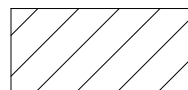
**EXISTING TYPICAL SECTION IL 157**

2.63 M.S. - 2.83 M.S.



**EXISTING TYPICAL SECTION IL 157**

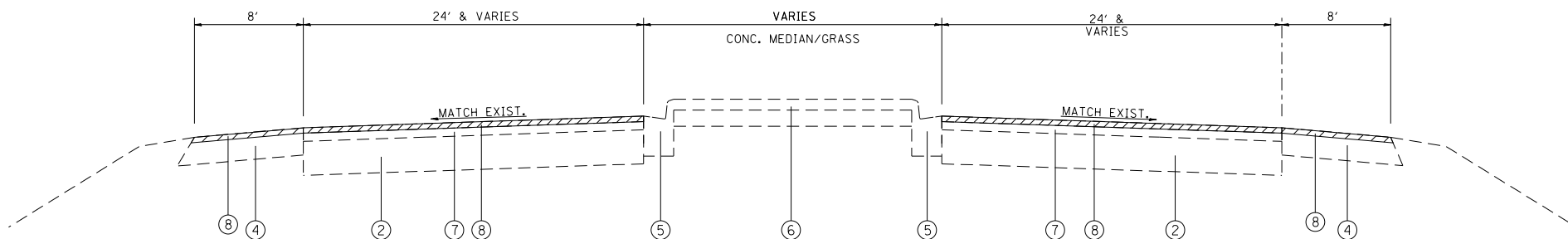
4.14 M.S. - 4.38 M.S.



HMA SURFACE REMOVAL  
 2-3/4" - 0.00 M.S. - 4.14 M.S.  
 3-3/4" - 4.14 M.S. - 5.10 M.S.

**LEGEND**

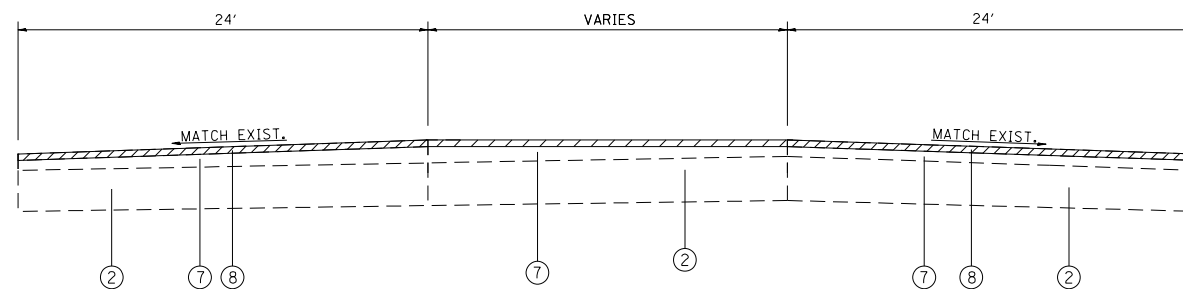
- ① EXISTING 9"-6"-9" CONCRETE PAVEMENT
- ② EXISTING CONCRETE PAVEMENT
- ③ EXISTING HMA BASE COURSE WIDENING, 9"
- ④ EXISTING HMA SHOULDERS 8"
- ⑤ EXISTING CONCRETE CURB, TYPE B
- ⑥ EXISTING CONCRETE MEDIAN, TYPE C-4
- ⑦ EXISTING HMA RESURFACING, ± 3 3/4"
- ⑧ PROPOSED HMA SURFACE REMOVAL (SEE THICKNESS ABOVE)
- ⑨ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ⑩ PROPOSED HMA SURFACE COURSE, 1 1/2"
- ⑪ PROPOSED HMA BINDER, 1 1/4"
- ⑫ PROPOSED HMA BINDER, 2 1/4"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED PAVEMENT MARKING
- ⑮ PROPOSED HMA SHOULDERS (SEE THICKNESS ABOVE)
- ⑯ PROPOSED AGGREGATE SHOULDERS, TYPE B
- ⑰ PROPOSED CURB, TYPE B
- ⑱ PROPOSED CONCRETE MEDIAN, TYPE SB-6.06



**EXISTING TYPICAL SECTION IL 157**

4.38 M.S. - 4.60 M.S.  
 4.65 M.S. - 4.98 M.S.  
 5.01 M.S. - 5.10 M.S.

NOTE: SEE MEDIAN SCHEDULE FOR CURB AND CONCRETE MEDIAN REPAIR LOCATIONS



**EXISTING TYPICAL SECTION IL 157**

4.98 M.S. - 5.01 M.S.

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USER NAME = murrayda	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISIONS - _____	
PLOT SCALE = 2,000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 10/16/2020	DATE - _____	REVISED - _____

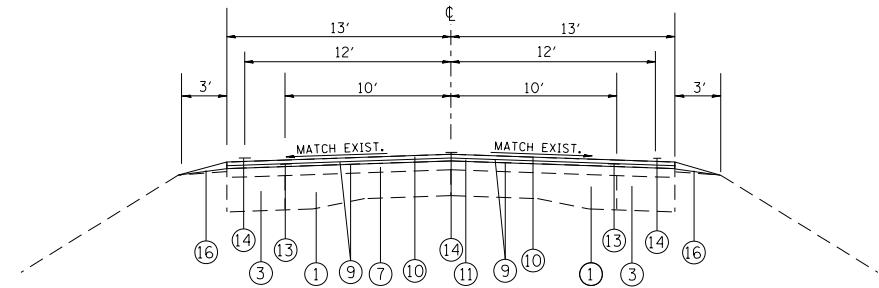
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

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

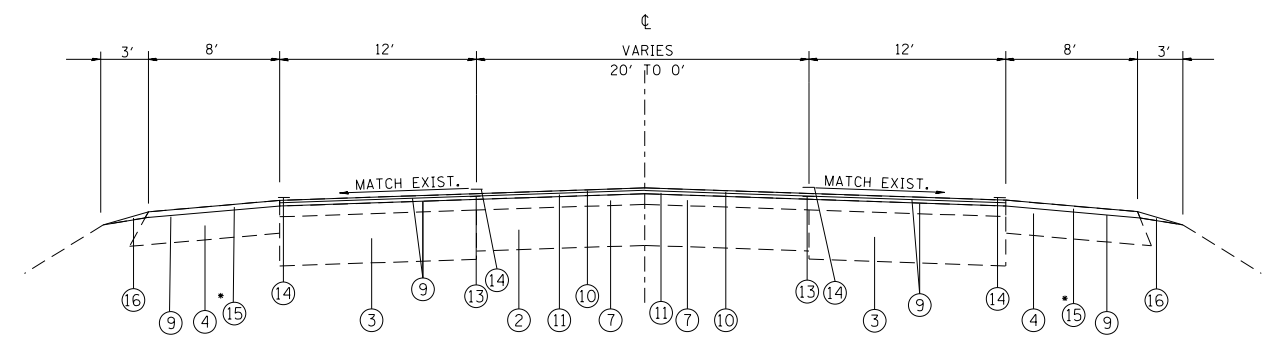
\* F.A.P. 592/ F.A.U. 8885

F.A.P./F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	6
CONTRACT NO. 76M48				
ILLINOIS FED. AID PROJECT				



**PROPOSED TYPICAL SECTION IL 157**

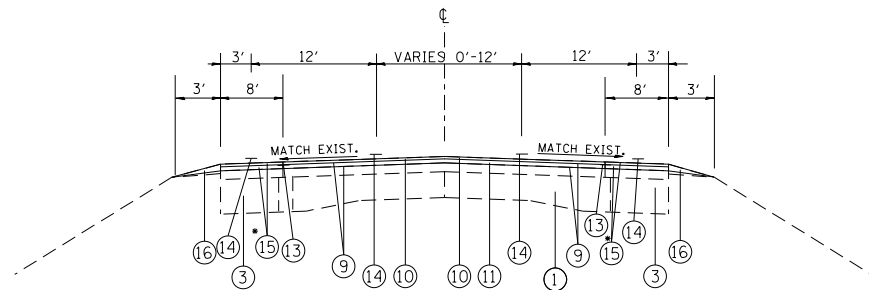
- 0.0 M.S. - 2.63 M.S.
- 2.83 M.S. - 2.99 M.S.
- 3.04 M.S. - 3.05 M.S.
- 3.13 M.S. - 3.15 M.S.
- 3.16 M.S. - 3.48 M.S.
- 3.78 M.S. - 4.11 M.S.



**PROPOSED TYPICAL SECTION IL 157**

- 3.02 M.S. - 3.04 M.S.
- 3.05 M.S. - 3.13 M.S.
- 3.15 M.S. - 3.16 M.S.
- 3.53 M.S. - 3.78 M.S.
- 4.11 M.S. - 4.14 M.S.

NOTE: THE SB RIGHT TURN LANE (CONCRETE) AT W. MAIN STREET WILL NOT BE RESURFACED.

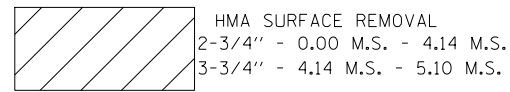


**PROPOSED TYPICAL SECTION IL 157**

- 2.63 M.S. - 2.83 M.S.

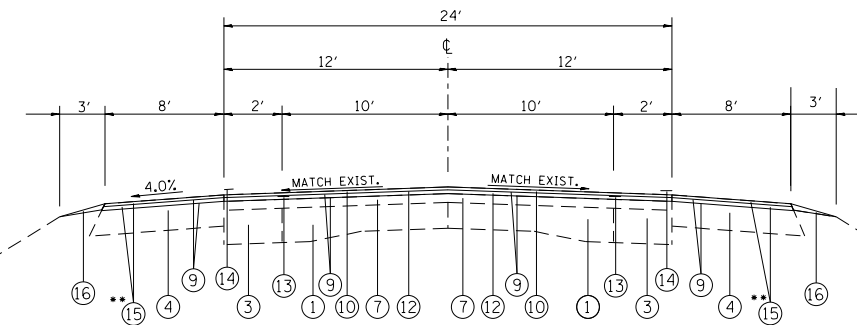
**PROPOSED HMA SHOULDERS**

- 2-3/4" - (1 LIFT)
- 2-3/4" - (SURFACE)
- 3-3/4" - (2 LIFTS) :
- 1-1/2" - (SURFACE)
- 2-1/4" - (LOWER)



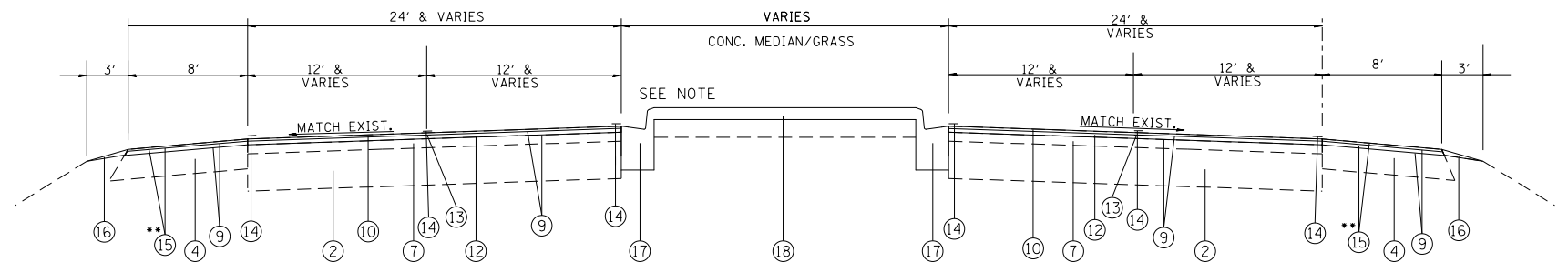
**LEGEND**

- ① EXISTING 9"-6"-9" CONCRETE PAVEMENT
- ② EXISTING CONCRETE PAVEMENT
- ③ EXISTING HMA BASE COURSE WIDENING, 9"
- ④ EXISTING HMA SHOULDERS 8"
- ⑤ EXISTING CONCRETE CURB, TYPE B
- ⑥ EXISTING CONCRETE MEDIAN, TYPE C-4
- ⑦ EXISTING HMA RESURFACING, ± 3 3/4"
- ⑧ PROPOSED HMA SURFACE REMOVAL (SEE THICKNESS ABOVE)
- ⑨ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ⑩ PROPOSED HMA SURFACE COURSE, 1 1/2"
- ⑪ PROPOSED HMA BINDER, 1 1/4"
- ⑫ PROPOSED HMA BINDER, 2 1/4"
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED PAVEMENT MARKING
- ⑮ PROPOSED HMA SHOULDERS (SEE THICKNESS ABOVE)
- ⑯ PROPOSED AGGREGATE SHOULDERS, TYPE B
- ⑰ PROPOSED CURB, TYPE B
- ⑱ PROPOSED CONCRETE MEDIAN, TYPE SB-6.06



**PROPOSED TYPICAL SECTION IL 157**

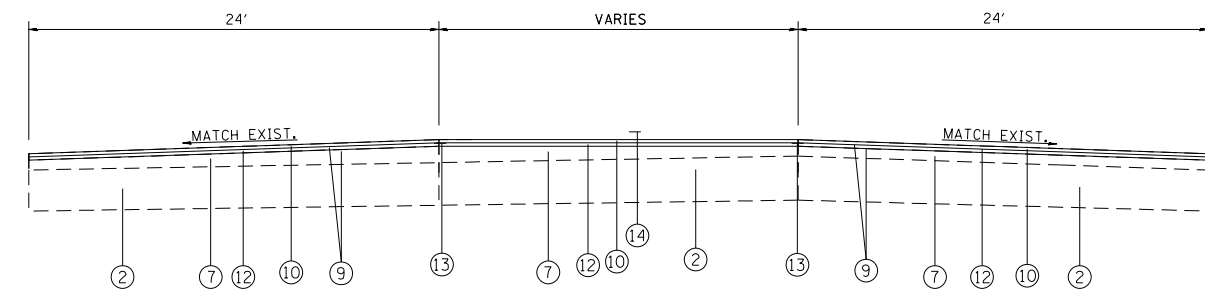
- 4.14 M.S. - 4.38 M.S.



**PROPOSED TYPICAL SECTION IL 157**

- 4.38 M.S. - 4.60 M.S.
- 4.65 M.S. - 4.98 M.S.
- 5.01 M.S. - 5.10 M.S.

NOTE: SEE MEDIAN SCHEDULE FOR CURB AND CONCRETE MEDIAN REPAIR LOCATIONS



**PROPOSED TYPICAL SECTION IL 157**

- 4.98 M.S. - 5.01 M.S.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

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

\* F.A.P. 592/ F.A.U. 8885

F.A.P./F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	7
CONTRACT NO. 76M48				

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 PROJECT: 117RS-6\117RS-6.dwg  
 OFFICE: 117RS-6\117RS-6.dwg  
 USER: murrayda

USER NAME = murrayda	DESIGNED - _____	REVISED - _____
DRAWN - _____	CHECKED - _____	REVISED - _____
PLOT SCALE = 2.0000' / in.	DATE - _____	REVISED - _____
PLOT DATE = 10/16/2020		

ILLINOIS FED. AID PROJECT

RESURFACING SCHEDULE														
MILE STATION TO MILE STATION	DIMENSION		HMA SURFACE REMOVAL 2 3/4"	HMA SURFACE REMOVAL 3 3/4 "	BITUMINOUS MATERIALS ( TACK COAT)	LONGITUDINAL JOINT SEALANT	HMA BINDER COURSE, IL-9.5FG	HMA BINDER COURSE, IL-19.0	HMA SURFACE COURSE, MIX D, IL-9.5	HMA SHOULDERS		AGGREGATE WEDGE SHOULDER TYPE B		
	ROADWAY WIDTH	SHOULDER WIDTH (1 SIDE)					N70	N70	N70	IL 19.0L	IL 9.5L			
							TON	TON	TON	TON	TON			
FOOT	FOOT	SQ YD	SQ YD	POUND	FOOT	TON	TON	TON	TON	TON	TON			
MAINLINE:														
0.00	-	2.63	26		40116		27078	27773	2808.1		3369.8		810.0	
2.63	-	2.70	36	8	1478		998	739	103.5		124.2	101.2	21.6	
2.70	-	2.77	42	8	1725		1164	739	120.7		144.9	101.2	21.6	
2.77	-	2.83	36	8	1267		855	634	88.7		106.4	86.7	18.5	
2.83	-	2.91	26		1220		824	845	85.4		102.5		24.6	
2.91	-	2.94	26		458		309	317	32.0		38.4		4.6	
2.94	-	2.99	26		763		515	528	53.4		64.1			
BRIDGE OMISSION - SN 060-0088 (2.99 M.S. - 3.02 M.S.)														
3.02	-	3.04	24	8	469		190	211	19.7		23.7	28.9	6.2	
3.04	-	3.05	26		153		103	106	10.7		12.8			
3.05	-	3.07	26	8	493		206	211	21.4		25.6	28.9	6.2	
3.07	-	3.11	26	8	986		412	422	42.7		51.3	57.8		
3.11	-	3.13	26	8	493		206	211	21.4		25.6	28.9		
3.13	-	3.15	26		305		206	211	21.4		25.6		3.1	
3.15	-	3.16	26	8	246		103	106	10.7		12.8	14.5	3.1	
3.16	-	3.48	26		4881		3295	3379	341.7		410.0		98.6	
3.48	-	3.51	29		510		345	317	35.7		42.9		6.0	
BRIDGE OMISSION - SN 060-0087 (3.51 M.S. - 3.53 M.S.)														
3.53	-	3.56	38	8	810		452	317	46.8		56.2	21.7		
3.56	-	3.64	36	8	2441		1141	845	118.3		141.9	115.6		
3.64	-	3.67	36	8	915		428	317	44.4		53.2	43.4		
3.67	-	3.68	45	8	358		179	106	18.5		22.2	14.5	3.1	
3.68	-	3.75	30	8	1889		832	739	86.2		103.5	101.2	21.6	
3.75	-	3.78	32	8	845		381	317	39.4		47.3	43.4	9.2	
3.78	-	3.81	32		563		380	317	39.4		47.3		9.2	
3.81	-	4.10	26		4423		2986	3062	309.6		371.6		89.3	
4.10	-	4.11	26		153		103	106	10.7		12.8		3.1	
4.11	-	4.14	36	8	906		422	317	43.7		52.5	43.4	9.2	
4.14	-	4.38	36	8		7322	3423	2534		638.7	425.8	283.9	189.2	73.9
4.38	-	4.48	58	8		4312	2278	1056		425.0	283.4	118.3	78.8	30.8
4.48	-	4.50	70	8		1009	556	211		103.5	69.0	23.7	15.8	6.2
4.50	-	4.60	60	8		4459	2377	1056		443.5	295.7	118.3	78.8	30.8
BRIDGE OMISSION - SN 060-0086/060-0085 (4.60 M.S. - 4.65 M.S.)														
4.65	-	4.71	63	8		2763	1486	634		277.2	184.8	71.0	47.3	18.5
4.71	-	4.76	65	8		2376	1288	528		240.2	160.2	59.1	39.4	15.4
4.76	-	4.90	70	8		7063	3882	1478		724.4	482.9	165.6	110.4	43.1
4.90	-	4.94	68	8		1959	1070	422		199.6	133.1	47.3	31.5	12.3
4.94	-	4.98	73	8		2089	1158	422		215.8	143.9	47.3	31.5	12.3
4.98	-	5.01	96		1681		1135	317		211.8	141.2			
5.01	-	5.10	77	8		4884	2728	950		506.9	339.3	106.4	71.0	27.7
I-270 RAMPS:														
NORTH WEST			8		1172		1187		147.7		99.7	116.9	78.0	
NORTH EAST			8		356		360		44.9		30.3	18.1	12.1	
SOUTH EAST			8		260		263		32.8		22.1	20.7	13.8	
SUBTOTAL:					68866	41705	67304	52800	4575	4215	8301	1197	1629	1440
<b>TOTAL:</b>					<b>68866</b>	<b>41705</b>	<b>67304</b>	<b>52800</b>	<b>4575</b>	<b>4215</b>	<b>8301</b>		<b>2826</b>	<b>1440</b>

6 TONS OF AGGREGATE SHOULDER HAVE BEEN INCLUDED FOR DAMAGE ON THE SB SHOULDER DUE TO RIGHT TURNS OFF THE BRIDGE AT IL 162. ADDITIONAL AGGREGATE SHOULDER HAS BEEN ESTIMATED AND INCLUDED. IT SHALL BE ELIMINATED AT THE SIDEROADS. A PORTION OF HMA SHOULDERS IS USED FOR ROADWAY FOR LEFT TURN LANE BETWEEN 2.63 M.S. - 2.83 M.S.

TRANSITION SCHEDULE			
MILE STATION	DIMENSION		HMA SURFACE REMOVAL VARIABLE DEPTH
	ROADWAY WIDTH	LENGTH	
	FOOT	FOOT	
4.14	36	100	400
<b>TOTAL:</b>			<b>400</b>

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	DRAWN - _____	REVISED - _____
PLOT SCALE = 2,000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 10/16/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET 1 OF 6 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

\* F.A.P. 592/ F.A.U. 8885

F.A.P. /F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	8
CONTRACT NO. 76M48				
ILLINOIS		FED. AID PROJECT		

PAVEMENT PATCHING SCHEDULE							
MILE STATION	DIRECTION	LANE LOCATION	DIMENSIONS		PAVEMENT PATCHING, 14 INCH		
					TYPE II	TYPE III	TYPE IV
			LENGTH	WIDTH	SQ YD	SQ YD	SQ YD
0.02	NB	DL	4	12	6		
0.03	NB	DL	4	12	6		
0.04	NB	DL	4	12	6		
0.60	NB	DL	4	12	6		
0.63	NB	DL	8	12	11		
1.15	NB	SHLDR	100	4			45
1.23	NB	SHLDR	20	4	9		
1.65	NB	DL	4	12	6		
1.85	NB	SHLDR	40	4		18	
2.00	NB	SHLDR	15	4	7		
2.62	NB	DL	6	12	8		
2.62	CENTER	DL	6	12	8		
3.44	NB	DL	8	12	11		
3.72	NB	SHLDR	20	4	9		
3.73	NB	DL	4	12	6		
3.88	NB	DL	9	12	12		
4.08	NB	DL	10	12	14		
4.21	NB	DL	6	12	8		
4.22	NB	DL	6	12	8		
4.73	NB	DL	4	12	6		
4.73	NB	PL	4	12	6		
4.82	NB	DL	6	12	8		
4.82	NB	PL	6	12	8		
SUBTOTAL (NB):					169	18	45

LONGITUDINAL PARTIAL DEPTH PATCHING SCHEDULE						
MILE STATION	DIRECTION	LANE LOCATION	DIMENSIONS		LONGITUDINAL PARTIAL DEPTH REMOVAL, 2"	LONGITUDINAL PARTIAL DEPTH PATCHING
			LENGTH	WIDTH	FOOT	TON
2.60	NB	EOP	950	2	950	47.3
2.60	SB	EOP	950	2	950	47.3
SUBTOTAL:					1900	95
12% SUBTOTAL:					228	12
TOTAL:					2128	107

PAVEMENT PATCHING SCHEDULE							
MILE STATION	DIRECTION	LANE LOCATION	DIMENSIONS		PAVEMENT PATCHING, 14 INCH		
					TYPE II	TYPE III	TYPE IV
			LENGTH	WIDTH	SQ YD	SQ YD	SQ YD
0.02	SB	DL	4	12	6		
0.03	SB	DL	4	12	6		
0.63	SB	DL	8	12	11		
1.15	SB	SHLDR	100	4			45
1.23	SB	SHLDR	20	4	9		
1.65	SB	DL	4	12	6		
1.85	SB	SHLDR	40	4		18	
2.00	SB	SHLDR	15	4	7		
2.62	SB	DL	6	12	8		
3.44	SB	DL	8	12	11		
3.72	SB	SHLDR	20	4	9		
3.73	SB	DL	4	12	6		
3.88	SB	DL	9	12	12		
4.08	SB	DL	10	12	14		
4.21	SB	DL	6	12	8		
4.22	SB	DL	6	12	8		
4.70	SB	DL	15	12		20	
4.70	SB	PL	15	12		20	
4.73	SB	DL	4	12	6		
4.73	SB	PL	4	12	6		
4.90	SB	DL	20	12			27
4.90	SB	PL	20	12			27
5.05	SB	DL	6	12	8		
5.05	SB	PL	6	12	8		
SUBTOTAL (SB):					149	58	99
SUBTOTAL (NB+SB):					318	76	144
12% SUBTOTAL:					39	10	18
TOTAL:					357	86	162

MEDIAN SCHEDULE					
MILE STATION	DIRECTION	CURB REMOVAL	MEDIAN REMOVAL	CONCRETE CURB, TYPE B	CONCRETE MEDIAN, TYPE SB-6.06
		FOOT	SQ FT	FOOT	SQ FT
4.37	MED		14		14
4.48	SB	15		15	
4.48	MED		7		7
4.51	MED		190		190
4.59	NB	21		21	
4.59	SB	20		20	
4.69	NB	10		10	
4.71	SB	128		128	
4.74	SB	4		4	
4.74	MED		8		8
4.75	MED		8		8
4.76	SB	13		13	
4.79	NB	157		157	
4.81	SB	3		3	
TOTAL:		371	227	371	227

SIGN SCHEDULE								
LOCATION		DIRECTION	DESCRIPTION	DIMENSIONS		RELOCATE SIGN PANEL	TELESCOPING STEEL SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT
MILE STATION	OFFSET TO EOP			WIDTH FOOT	HEIGHT FOOT	TYPE 1 SQ FT	FOOT	EACH
4.37	IN MEDIAN	NB	KEEP RIGHT	2	2.5	5	9.5	1
4.51	IN MEDIAN	NB	R4 -7 (ARROW SWERVE)	1.5	2	3	9	1
4.74	IN MEDIAN	SB	R4 -7 (ARROW SWERVE)	1.5	2	3	9	1
TOTAL:						11	27.5	3

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USER NAME = murrayda	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 2,0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 10/15/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: _____				SHEET 2 OF 6 SHEETS				STA. _____ TO STA. _____			
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**SCHEDULE OF QUANTITIES**

\* F.A.P. 592/ F.A.U. 8885

F.A.P./F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	9
			CONTRACT NO. 76M48	
		ILLINOIS	FED. AID PROJECT	

**TEMPORARY RAMP SCHEDULE**

LOCATION		DESCRIPTION	EXISTING MATERIAL	TEMPORARY RAMPS, 2.75"			TEMPORARY RAMPS, 3.75"			TEMPORARY RAMPS, 1.50"		
MILE STATION	NAME			WIDTH	LENGTH	SQ YD	WIDTH	LENGTH	SQ YD	WIDTH	LENGTH	SQ YD
0.00	BEGIN OF PROJECT	MAINLINE	HMA	26	9.2	26.5				26	5	14.4
0.05	BUSINESS CENTER CT.	LEFT	HMA	78	2	17.3				78	2	17.3
1.00	SUGAR LOAF RD.	RIGHT	HMA	74	2	16.4				74	2	16.4
1.03	MCDONOUGH LAKE DR.	LEFT	HMA	55	2	12.2				55	2	12.2
1.24	SAND RD.	LEFT	HMA	80	2	17.8				80	2	17.8
1.71	KELLER LN.	LEFT	HMA	52	2	11.6				52	2	11.6
1.81	CARTER	RIGHT	HMA	29	2	6.4				29	2	6.4
2.30	KNECHT RD.	RIGHT	HMA	41	2	9.1				41	2	9.1
2.55	OLD CAMP GRAHAM RD.	RIGHT	HMA	53	2	11.8				53	2	11.8
2.78	HILLCREEK RD.	LEFT	HMA	100	2	22.2				100	2	22.2
2.99	SN 060-0088	MAINLINE	HMA	24	9.2	24.4				24	5	13.3
3.02	SN 060-0088	MAINLINE	HMA	24	9.2	24.4				24	5	13.3
3.05	BURDICK CREEK RD.	RIGHT	HMA	62	2	13.8				62	2	13.8
3.14	OLD KEEBLER RD.	RIGHT	HMA	72	2	16.0				72	2	16.0
3.45	CARROLL LN.	LEFT	HMA	76	2	16.9				76	2	16.9
3.49	IL 162	RIGHT	HMA	120	2	26.7				120	2	26.7
3.51	SN 060-0087	MAINLINE	HMA	30	9.2	30.6				30	5	16.7
3.53	SN 060-0087	MAINLINE	HMA	35	9.2	35.6				35	5	19.4
3.54	IL 162	LEFT	HMA	150	2	33.3				150	2	33.3
3.67	W. MAIN ST.	RIGHT	HMA	135	2	30.0				135	2	30.0
3.73	BUTTERNUT LN.	RIGHT	HMA	57	2	12.7				57	2	12.7
3.78	CEDAR LN.	RIGHT	HMA	52	2	11.6				52	2	11.6
4.14	GLENWOOD DR.	RIGHT	HMA	84	2	18.7				84	2	18.7
4.22	THE GAME DR.	LEFT	CONC				100	2	22	100	2	22.2
4.22	HERITAGE CROSSING	RIGHT	HMA				67	2	15	67	2	14.9
4.34	HOTEL ENTRANCE	RIGHT	HMA				78	2	17	78	2	17.3
4.49	I-270 - SW RAMP	LEFT	HMA				107	2	24	107	2	23.8
4.49	I-270 - SE RAMP	RIGHT	HMA				16	2	4	16	2	3.6
4.60	SN 060-0085	MAINLINE	HMA				24	12.5	33	24	5	13.3
4.60	SN 060-0086	MAINLINE	HMA				24	12.5	33	24	5	13.3
4.65	SN 060-0085	MAINLINE	HMA				24	12.5	33	24	5	13.3
4.65	SN 060-0086	MAINLINE	HMA				24	12.5	33	24	5	13.3
4.76	I-270 - NE RAMP	RIGHT	HMA				20	2	4	20	2	4.4
4.76	I-270 - NW RAMP (1)	LEFT	HMA				14	2	3	14	2	3.1
4.89	I-270 - NW RAMP (2)	LEFT	HMA				14	2	3	14	2	3.1
4.90	IL - 157 RAMP	RIGHT	HMA				85	2	19	85	2	18.9
5.00	CHAIN OF ROCKS RD.	LEFT	HMA				155	2	34	155	2	34.4
5.00	CHAIN OF ROCKS RD.	RIGHT	HMA				189	2	42	189	2	42.0
5.09	END OF PROJECT - NB	MAINLINE	HMA				24	12.5	33	24	5	13.3
5.10	END OF PROJECT - SB	MAINLINE	HMA				24	12.5	33	24	5	13.3
<b>SUBTOTAL:</b>						446			388			649
<b>TOTAL:</b>							<b>1484</b>					

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\* F.A.P. 592/ F.A.U. 8885

USER NAME = murrayda	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 2,0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 10/15/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET 3 OF 6 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P./ F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	10
CONTRACT NO. 76M48				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

MILE STATION TO MILE STATION	LENGTH	SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY & THERMOPLASTIC PAVEMENT MARKING						RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKERS CRYSTAL	TEMPORARY PAVEMENT MARKING REMOVAL	
		4" SKIP-DASH WHITE	4" SKIP-DASH YELLOW		4" SOLID WHITE	4" SOLID YELLOW	4" SKIP-DASH WHITE	4" SKIP-DASH WHITE (ABBREVIATED)	4" SKIP-DASH YELLOW	NO PASSING ZONE				
										4" SOLID YELLOW				DIR
FT	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	DIR	FOOT	EACH	EACH	SQ FT
<b>TRAVELING NB</b>														
0.00 - 0.04	212		60	7	424				60	SB	212	3	3	232
0.04 - 0.06	106		30	4	106				30	SB	106	2	2	81
0.06 - 0.09	159		60	7	318				40	SB	159	2	2	173
0.09 - 0.46	1954		540	60	3908				490			25	25	1466
0.46 - 0.67	1109		330	37	2218				280	NB	1109	14	14	1203
0.67 - 0.88	1109		330	37	2218					BOTH	2218	14	14	1479
0.88 - 0.99	581		180	20	1162				150	SB	581	8	8	631
0.99 - 1.00	53		30	4	53					BOTH	106	1	1	53
1.00 - 1.02	106		30	4	212					BOTH	212	2	2	142
1.02 - 1.03	53		30	4	53					BOTH	106	1	1	53
1.03 - 1.08	264		90	10	528					BOTH	528	4	4	352
1.08 - 1.20	634		180	20	1268				160	NB	634	8	8	688
1.20 - 1.23	159		60	7	318					BOTH	318	2	2	212
1.23 - 1.25	106		30	4	106					BOTH	212	2	2	106
1.25 - 1.29	212		60	7	424					BOTH	424	3	3	283
1.29 - 1.50	1109		330	37	2218				280	SB	1109	14	14	1203
1.50 - 1.70	1056		300	34	2112				270			14	14	794
1.70 - 1.71	53		30	4	53				20			1	1	25
1.71 - 1.84	687		210	24	1374				180			9	9	518
1.84 - 1.95	581		180	20	1162				150	NB	581	8	8	631
1.95 - 2.05	528		150	17	1056					BOTH	1056	7	7	704
2.05 - 2.16	581		180	20	1162				150	SB	581	8	8	631
2.16 - 2.30	740		210	24	1480				190			10	10	557
2.30 - 2.31	53		30	4	53				20			1	1	25
2.31 - 2.54	1215		360	40	2430				310			16	16	914
2.54 - 2.54	22		30	4	44				10	NB	22	1	1	26
2.54 - 2.55	32		30	4	32				10	NB	32	1	1	25
2.55 - 2.63	423		120	14	846				110	NB	423	6	6	460
2.63 - 2.69	317		90	10	634							4	4	212
2.69 - 2.70	53		30	4	53							1	1	18
2.70 - 2.72	106	30	30	7	106							2	2	36
2.72 - 2.72	26	30	30	7	52	52						1	1	35
2.72 - 2.73	28	30	30	7	84	56						1	1	47
2.73 - 2.74	53		30	4	159	106						1	1	89
2.74 - 2.83	476		150	17	952							6	6	318
2.83 - 2.92	476		150	17	952					BOTH	952	6	6	635
2.92 - 2.93	40		30	4	80				10	NB	40	1	1	44
2.93 - 2.94	53		30	4	53				20	NB	53	1	1	42
2.94 - 2.99	265		90	10	530				70	NB	265	4	4	289
3.02 - 3.03	53	18	30	6	106					BOTH	106	1	1	71
3.03 - 3.04	53	18	30	6	106				20	SB	53	1	1	60
3.04 - 3.05	53		30	4	53				20	SB	53	1	1	42
3.05 - 3.13	423	102	120	25	846				110	SB	423	6	6	460
3.13 - 3.15	106		30	4	106				30	SB	106	2	2	81
3.15 - 3.23	423	15	120	15	846				110	SB	423	6	6	460
3.23 - 3.27	212		60	7	424				60			3	3	162
<b>SUBTOTAL (1):</b>		243	5310	636	33480	214			3360		13203	235	235	16768
<b>TOTAL (1):</b>			<b>5553</b>	<b>636</b>				<b>50257</b>				<b>235</b>	<b>235</b>	<b>16768</b>

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\* F.A.P. 592/ F.A.U. 8885

USER NAME = murrayda	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 2,000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 10/15/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET 4 OF 6 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P./F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	11
CONTRACT NO. 76M48				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

MILE STATION TO MILE STATION	LENGTH	SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY & THERMOPLASTIC PAVEMENT MARKING						RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKERS CRYSTAL	TEMPORARY PAVEMENT MARKING REMOVAL		
		4" SKIP-DASH WHITE	4" SKIP-DASH YELLOW		4" SOLID WHITE	4" SOLID YELLOW	4" SKIP-DASH WHITE	4" SKIP-DASH WHITE (ABBREVIATED)	4" SKIP-DASH YELLOW	NO PASSI SOLID					
		FOOT	FOOT		FOOT	FOOT	FOOT	FOOT	FOOT	DIR					
<b>TRAVELING NB</b>															
3.27 - 3.44	898		270	30	1796					230	NB	898	12	12	975
3.44 - 3.46	106		30	4	106						BOTH	212	2	2	106
3.46 - 3.48	106		30	4	212						BOTH	212	2	2	142
3.48 - 3.50	106		30	4	106						BOTH	212	2	2	106
3.50 - 3.51	53		30	4	106	106		20					1	1	78
3.53 - 3.55	106		60	7	106								2	2	36
3.55 - 3.56	53		60	7	53	106				40			1	1	67
3.56 - 3.67	581		360	40	1162	1162				300			8	8	875
3.67 - 3.68	53	30	30	7	53								1	1	18
3.68 - 3.69	53	30	30	7	106	106							1	1	71
3.69 - 3.71	106	30	30	7	318	212							2	2	177
3.71 - 3.72	53	30	30	7	106								1	1	36
3.72 - 3.74	106	30	30	7	106								2	2	36
3.74 - 3.77	159		60	7	318								2	2	106
3.77 - 3.78	53		30	4	53								1	1	18
3.78 - 3.79	53		30	4	106								1	1	36
3.79 - 3.81	106		30	4	212								2	2	71
3.81 - 3.88	370		120	14	740					100			5	5	280
3.88 - 4.10	1162		330	37	2324					300			15	15	875
4.10 - 4.11	53		30	4	53					20			1	1	25
4.11 - 4.21	528	132	150	32	1056					140			7	7	399
4.21 - 4.23	106	30	30	7	106					30			2	2	46
4.23 - 4.28	264	66	90	18	528					70			4	4	200
4.28 - 4.33	264	66	90	18	528						BOTH	528	4	4	352
4.33 - 4.35	106	30	30	7	106						BOTH	212	2	2	106
4.35 - 4.38	159	162		18	318	136					BOTH	318	2	2	258
4.38 - 4.45	370	330		37	740	740	100						5	5	527
4.45 - 4.48	159	162		18	318		80						2	2	133
4.49 - 4.50	53	15		2	53			20					1	1	25
4.50 - 4.55	264	336		38	792	528	140						4	4	487
4.55 - 4.56	53	78		9	106	106	40						1	1	84
4.56 - 4.60	212	174		20	424	424	120						3	3	323
4.65 - 4.71	317	258		29	634	634	160						4	4	476
4.71 - 4.74	159	222		25	477	318	80						2	2	292
4.74 - 4.75	53	78		9	106		40						1	1	49
4.75 - 4.76	53	78		9		106	40						1	1	49
4.76 - 4.78	106	90		10	106	212	60						2	2	126
4.78 - 4.88	528	432		48	1056	1056	280						7	7	798
4.88 - 4.90	106	90		10	248	212	60						2	2	174
4.90 - 4.94	212	174		20	424	424	120	120					3	3	363
4.94 - 4.98	212	234		26	636	424	120						3	3	394
4.98 - 5.01	159	162		18		318	80	159					2	2	186
5.01 - 5.05	212	234		26	636	424	120						3	3	394
5.05 - 5.08	159	222		25	318	318	80	40					2	2	252
5.08 - 5.10	106	90		10	212	212	60						2	2	162
<b>SUBTOTAL (2):</b>			4095	2040	698	18070	8284	1780	359	1230		2592	135	135	10789
<b>TOTAL (2):</b>			<b>6135</b>		<b>698</b>			<b>32315</b>					<b>135</b>	<b>135</b>	<b>10789</b>

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PLOT SCALE = 2,0050' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 10/15/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET 5 OF 6 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

\* F.A.P. 592/ F.A.U. 8885

F.A.P./ F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	12
CONTRACT NO. 76M48				
ILLINOIS   FED. AID PROJECT				



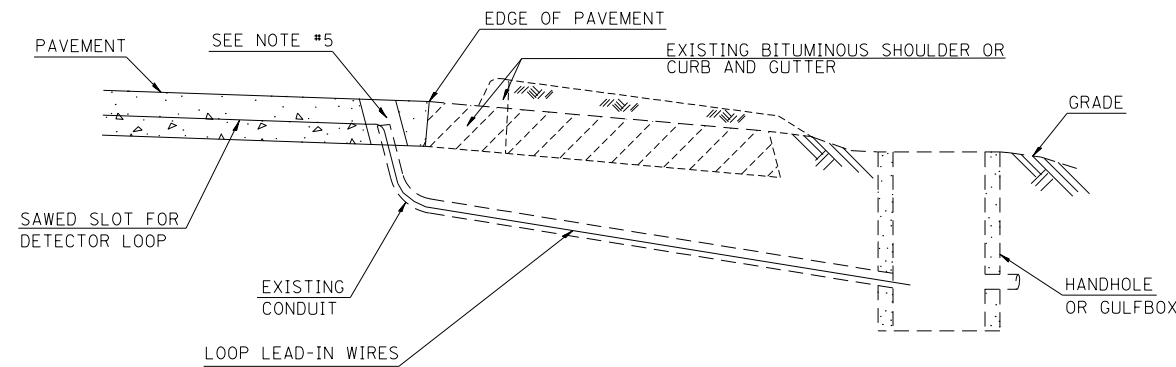


NOTES:

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 157 & I-270 S. JCT.	IL 157 & W. MAIN ST.
CODE NO	ITEM	UNIT			
80300100	LOCATING UNDERGROUND CABLE	FOOT	110	30	80
88600000	DETECTOR LOOP REPLACEMENT	FOOT	1180	501	679



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.

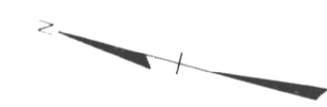
NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE  
INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

DETECTOR LOOP REPLACEMENT LEGEND

- ☒ EX. HANDHOLE
- EX. DETECTOR LOOP
- ☒ EX. TRAFFIC SIGNAL CONTROLLER
- EXISTING CONDUIT
- ▭ PROPOSED DETECTOR LOOP

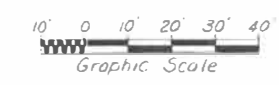
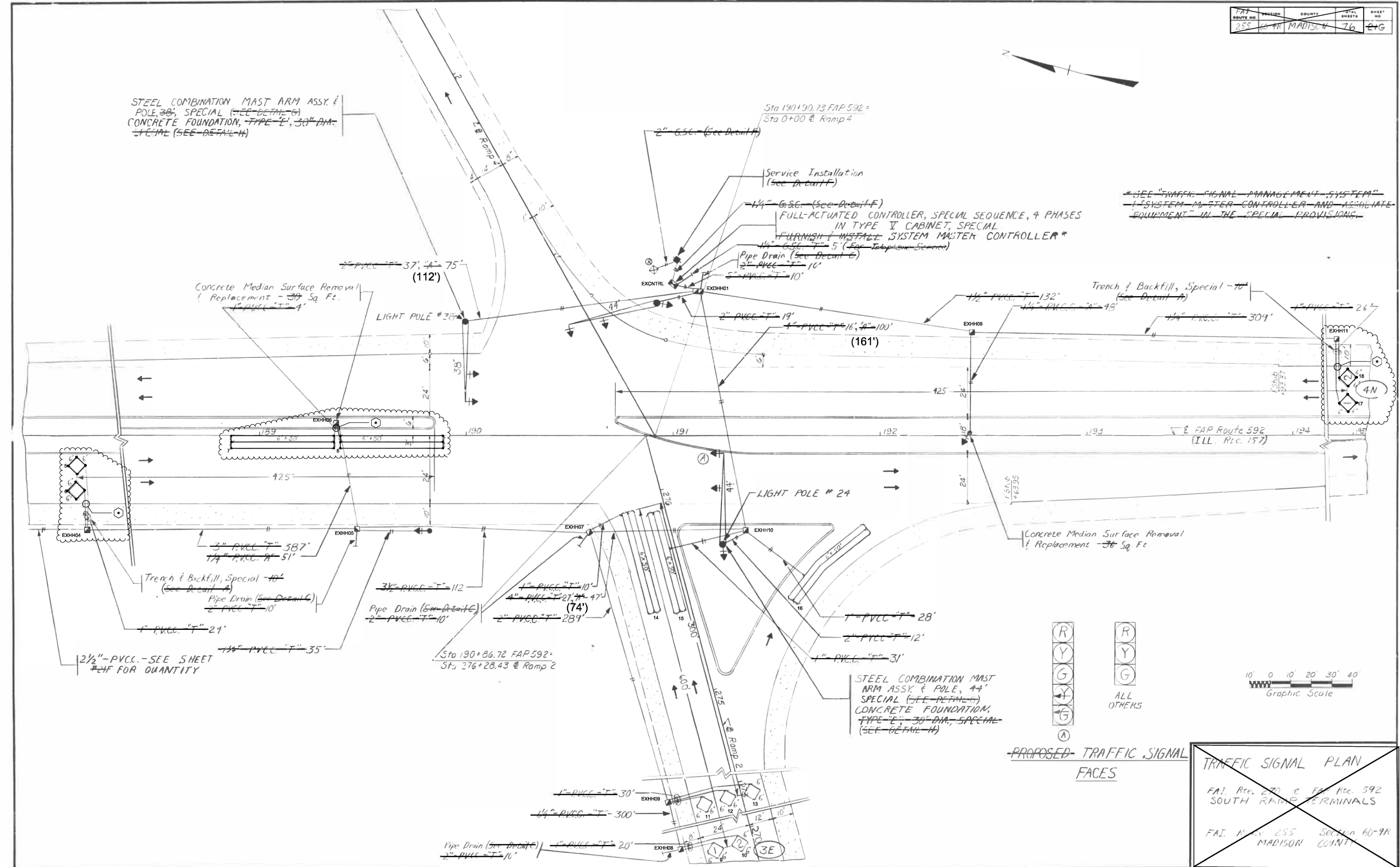
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PLOT SCALE = 41.4620 ' / in.		DATE -	REVISED -		*FAP 592/FAU 8885			CONTRACT NO. 76M48				
PLOT DATE = 8/7/2020					SCALE:	SHEET NO. 1 OF 5 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

FAI ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-9R	MADISON	76	2+G



STEEL COMBINATION MAST ARM ASSY. & POLE, 38', SPECIAL (SEE DETAIL G)  
CONCRETE FOUNDATION, TYPE E, 30" DIA. SPECIAL (SEE DETAIL H)

~~SEE "TRAFFIC SIGNAL MANAGEMENT SYSTEM" SYSTEM MASTER CONTROLLER AND ASSOCIATE EQUIPMENT IN THE SPECIAL PROVISIONS.~~



~~PROPOSED~~ TRAFFIC SIGNAL FACES

**TRAFFIC SIGNAL PLAN**  
 FAI Rte. 270 & FAI Rte. 592  
 SOUTH RAMP TERMINALS  
 FAI Rte. 255 Section 60-9R  
 MADISON CNTY.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

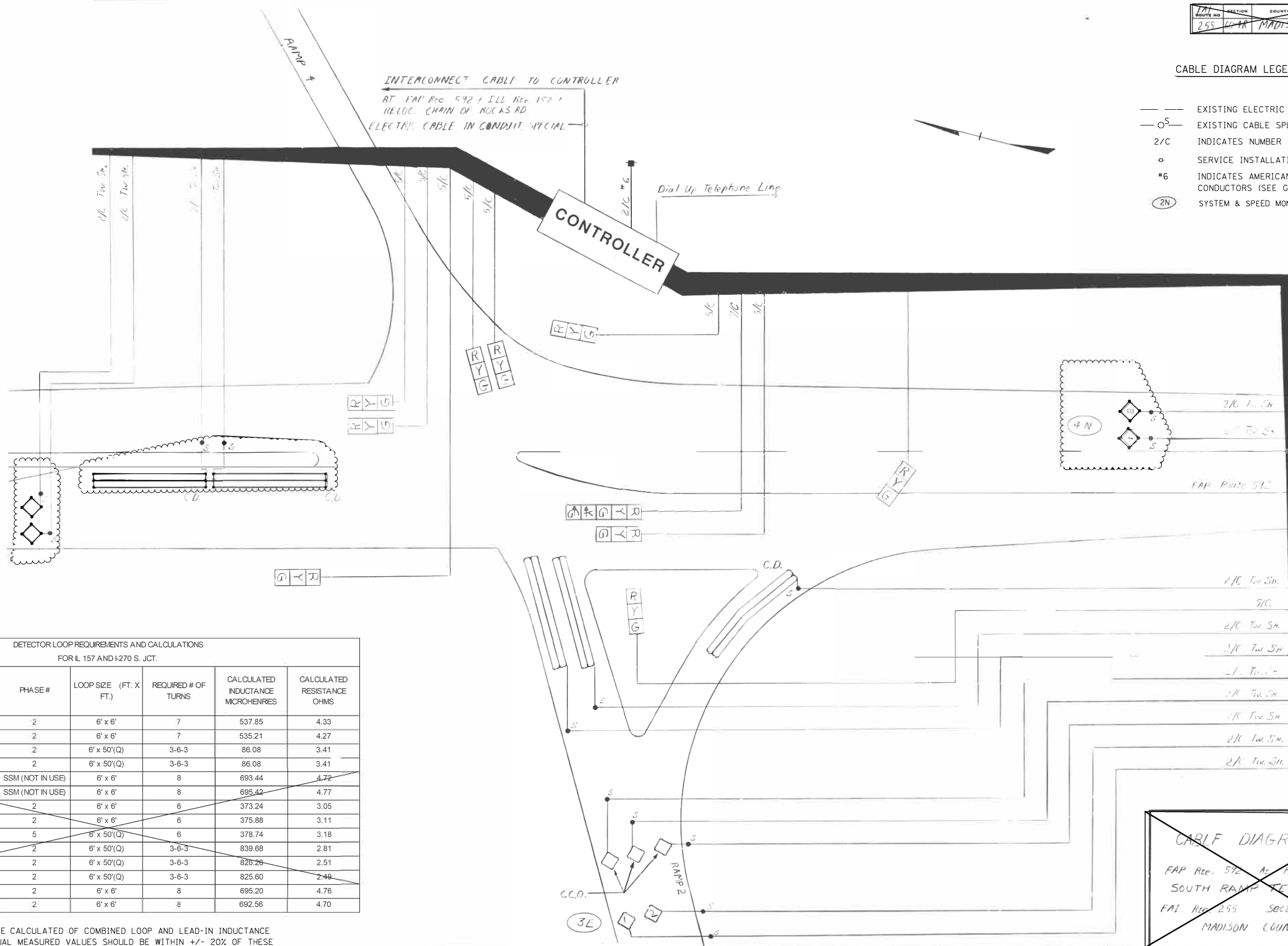
**DETECTOR LOOP REPLACEMENT PLAN  
IL 157 & I-270 S. JCT. (GLEN CARBON, MADISON CNTY.)**

SCALE: SHEET NO. 2 OF 5 SHEETS STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FAI 592/FAU 8885	117R5-6	MADISON	19	15
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

**CABLE DIAGRAM LEGEND**

- EXISTING ELECTRIC CABLE IN CONDUIT
- EXISTING CABLE SPLICE
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- ⊕ SERVICE INSTALLATION
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)
- Ⓝ(2N) SYSTEM & SPEED MONITOR (SSM) LOOPS



**DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 157 AND I-270 S. JCT.**

LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. SB CCO 1	2	6' x 6'	7	537.85	4.33
2. SB CCO 2	2	6' x 6'	7	535.21	4.27
3. SB LT 1 CD	2	6' x 50'(Q)	3-6-3	86.08	3.41
4. SB LT 2 CD	2	6' x 50'(Q)	3-6-3	86.08	3.41
5. 3E-1	SSM (NOT IN USE)	6' x 6'	8	693.44	4.72
6. 3E-2	SSM (NOT IN USE)	6' x 6'	8	695.42	4.77
7. EB CCO 1	2	6' x 6'	6	373.24	3.05
8. EB CCO 2	2	6' x 6'	6	375.88	3.11
9. EB CCO 3	5	6' x 50'(Q)	6	378.74	3.18
10. EB LT CD	2	6' x 50'(Q)	3-6-3	839.68	2.81
11. EB THRU CD	2	6' x 50'(Q)	3-6-3	826.26	2.51
12. EB RT CD	2	6' x 50'(Q)	3-6-3	825.60	2.49
13. NB CCO 1(4N-1, SSM NOT IN USE)	2	6' x 6'	8	695.20	4.76
14. NB CCO 2(4N-2, SSM NOT IN USE)	2	6' x 6'	8	692.56	4.70

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

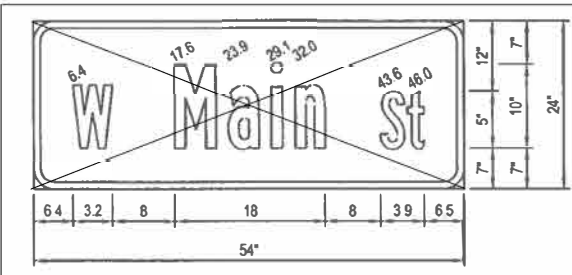
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

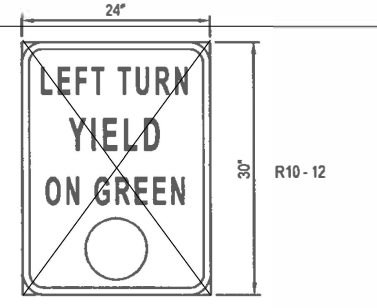
**IL 157 & I-270 S. JCT. (GLEN CARBON, MADISON CNTY.)  
CABLE DIAGRAM**

SCALE: SHEET NO. 3 OF 5 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 592/FAU 8885	117RS-6	MADISON	19	16
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76M48		



**STREET NAME SIGN (A)**

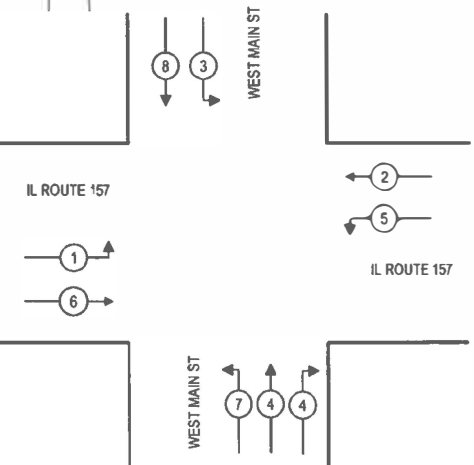
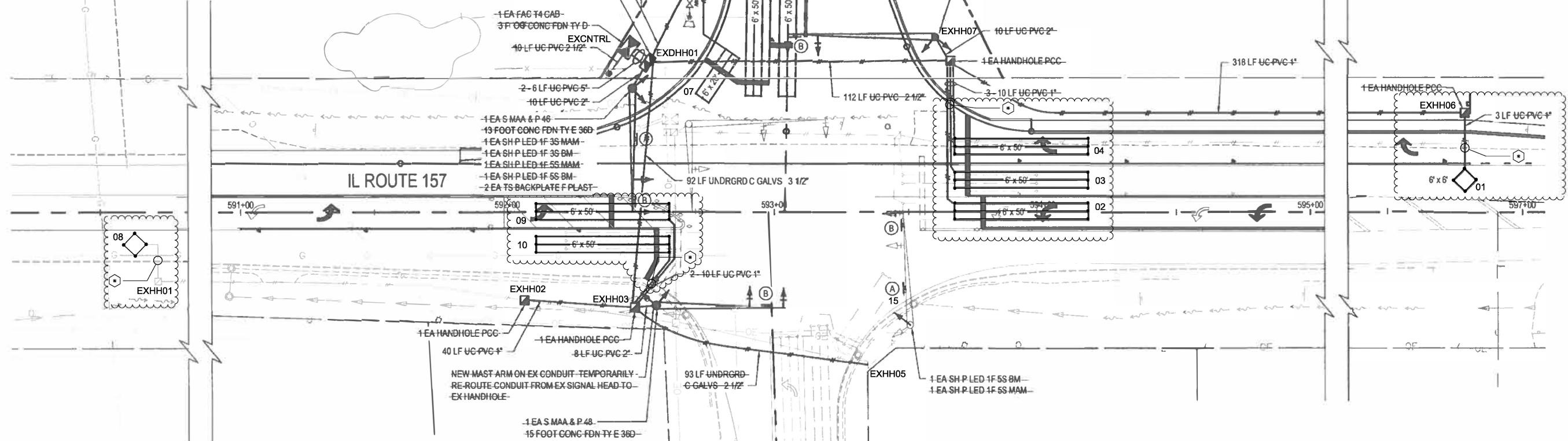


**SIGN PANEL - TYPE 1 (B)**

**PROPOSED SEQUENCE OF OPERATIONS**

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET								
PHASE Ø	1	2	3	4	5	6	7	8
MOVEMENT	SB LT	NB	WB LT	EB	NB LT	SB	EB LT	WB
CONCURRENT MOVEMENT PERMITTED	5	6	7	8	1	2	3	4

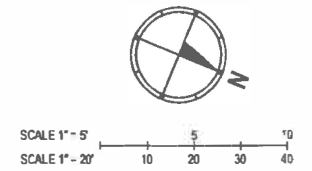
**DETECTOR LOOP REQUIREMENTS AND CALCULATIONS ON ASSO. CABLE DIAGRAM**



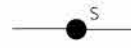

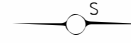

**PHASE DESIGNATION DIAGRAM**

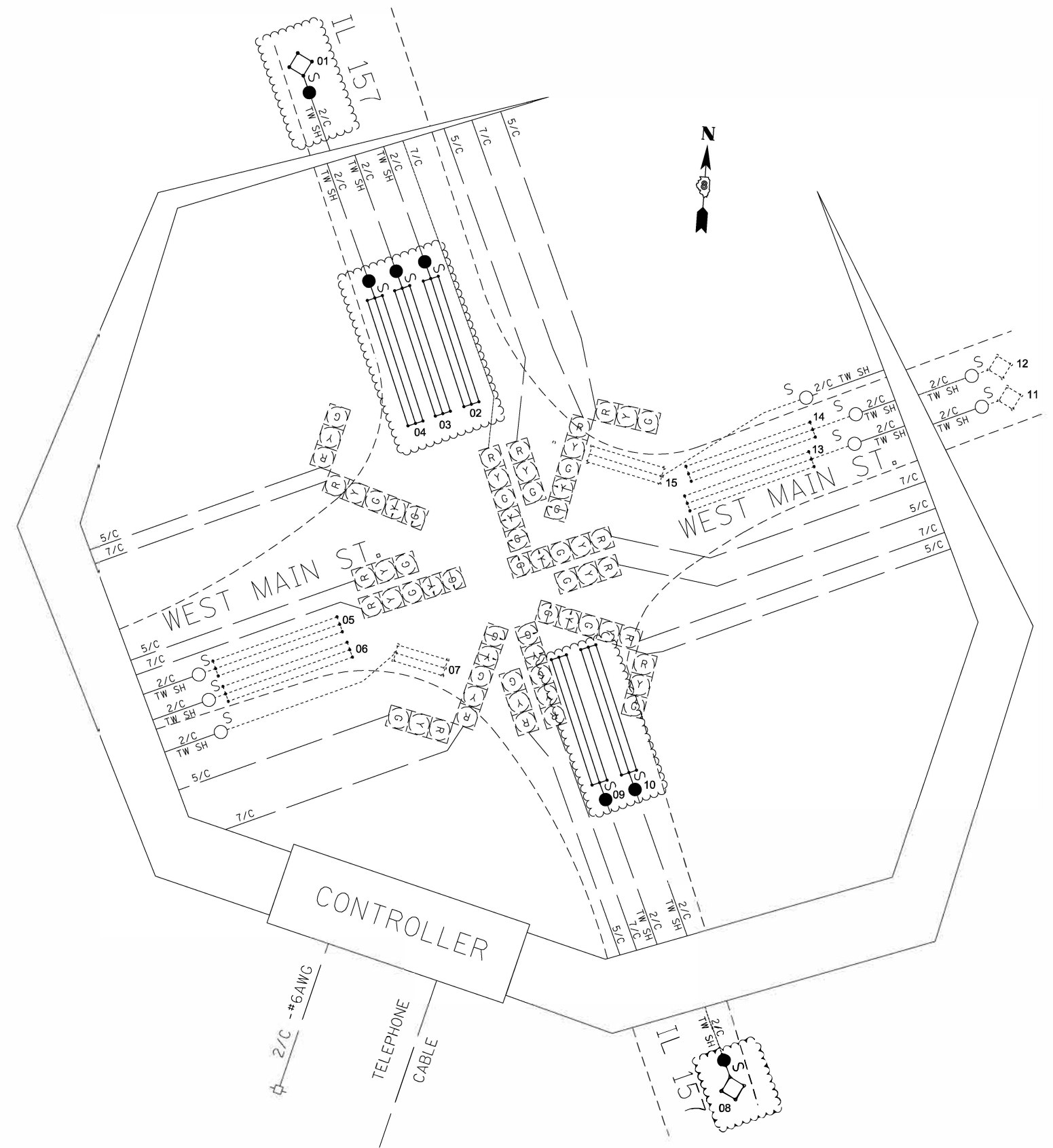
**TRAFFIC SIGNAL LEGEND**

- NEW MAST ARM
- NEW SIGNAL HEAD
- NEW SIGNAL HEAD WITH BACKPLATE
- NEW HANDHOLE
- NEW DOUBLE HANDHOLE
- NEW DETECTOR LOOP
- NEW CONTROLLER
- NEW CONDUIT: SIZE SPECIFIED
- NEW STREET NAME SIGN / TRAFFIC SIGN
- NEW SERVICE INSTALLATION



### CABLE DIAGRAM LEGEND

-  PROPOSED CABLE SPLICE
-  EXISTING ELECTRIC CABLE IN CONDUIT
-  EXISTING CABLE SPLICE
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- TW SH TWISTED AND SHIELDED CABLE
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTOR
-  EXISTING SERVICE INSTALLATION



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 157 AND WEST MAIN ST.					
LOOP#	PHASE#	LOOP SIZE (FT X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. SB COO	2	6' x 6'	6	361.36	2.78
2. SB LT CD	5	6' x 50'(Q)	3-6-3	822.52	2.42
3. SB THRU 1 CD	2	6' x 50'(Q)	3-6-3	828.68	2.56
4. SB THRU 2 CD	2	6' x 50'(Q)	3-6-3	825.38	2.49
5. EB LT CD	3	6' x 50'(Q)	3-6-3	808.44	2.10
6. EB THRU CD	8	6' x 50'(Q)	3-6-3	805.80	2.04
7. EB RT CD	8	6' x 50'(Q)	3-6-3	809.98	2.14
8. NB COO	6	6' x 6'	3-6-3	362.24	2.80
9. NB LT CD	1	6' x 50'(Q)	3-6-3	826.92	2.52
10. NB THRU CD	6	6' x 50'(Q)	3-6-3	823.84	2.45
11. WB COO 1	4	6' x 6'	6	334.74	2.18
12. WB COO 2	4	6' x 6'	6	334.30	3.17
13. WB LT CD	7	6' x 50'(Q)	3-6-3	844.74	2.93
14. WB THRU CD	4	6' x 50'(Q)	3-6-3	840.56	2.83
15. WB RT CD	4	6' x 30'(Q)	3-6-3	537.26	2.16

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

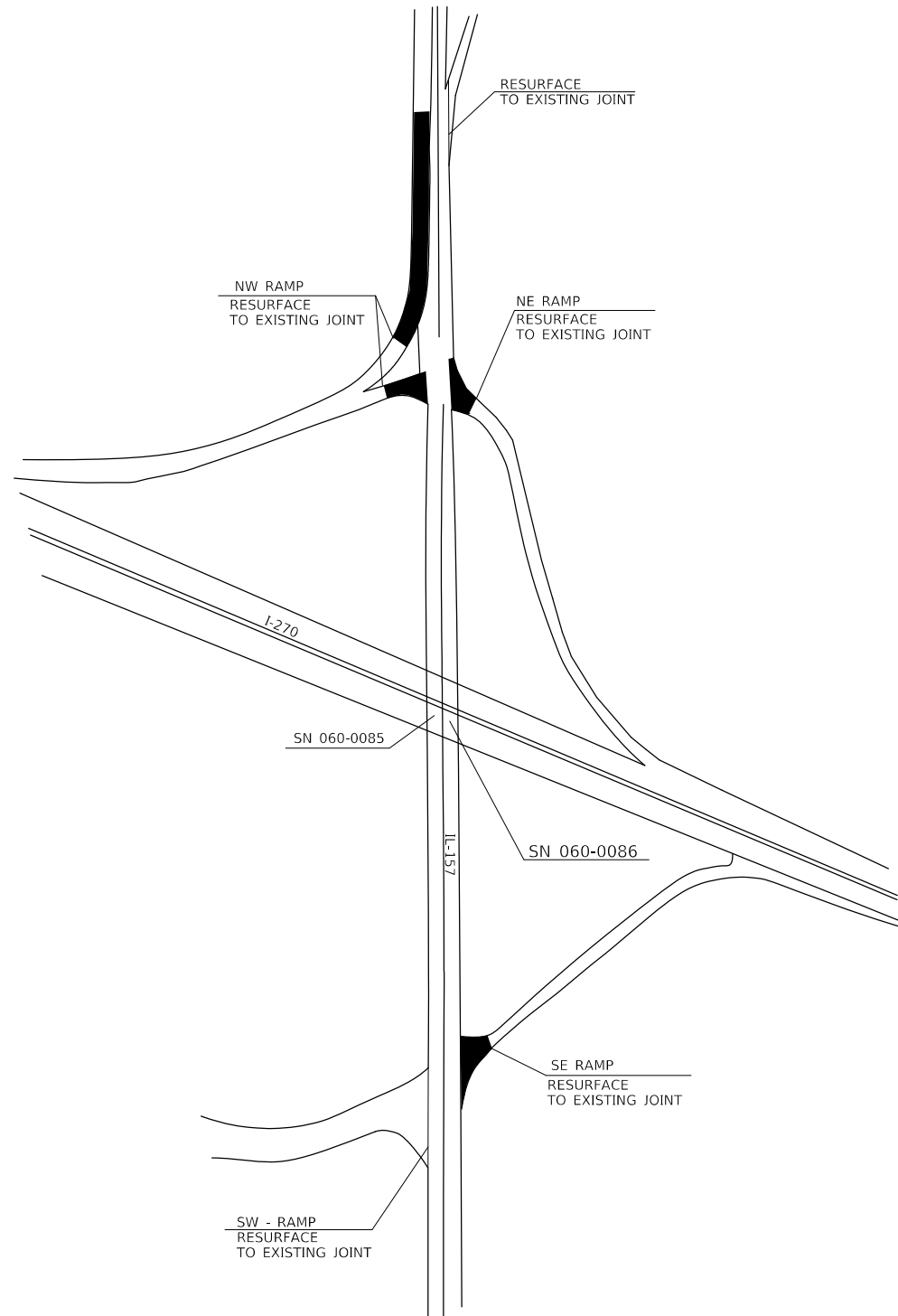
FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -
p:\planroom\dot.illinois.gov\FWIDOT\Documents\IDOT Offices\District 8\Projects\0876M48\0876M48-1\Electrical\0876M48-TS.dgn		DRAN	REVISED -
	PLOT SCALE = 41.4620' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/7/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

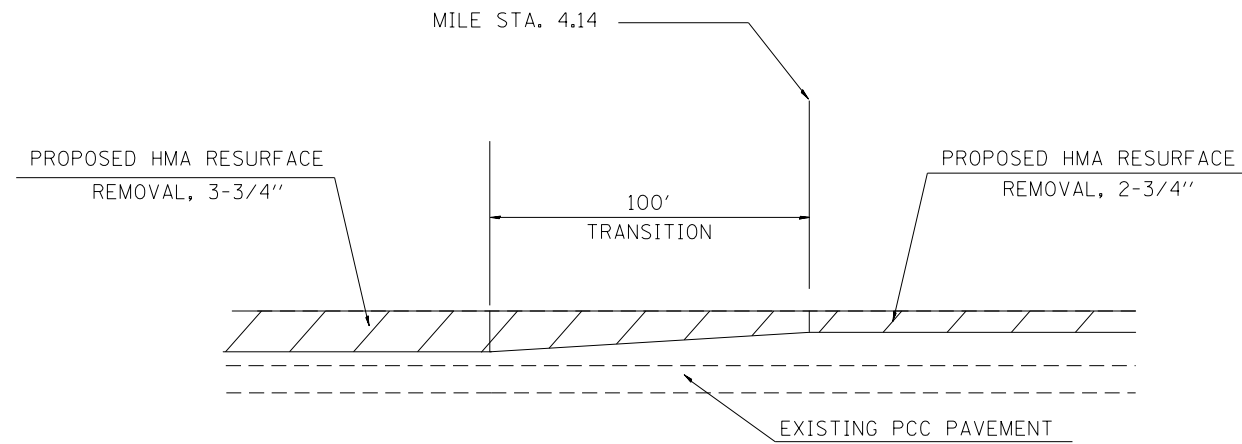
**IL 157 & W. MAIN ST. (GLEN CARBON, MADISON CNTY.)  
CABLE DIAGRAM**

SCALE: SHEET NO. 5 OF 5 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	18
*FAP 592/FAU 8885		CONTRACT NO. 76M48		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**RAMP  
RESURFACING DETAIL**



**TRANSITION  
HMA SURFACE REMOVAL DETAIL**

NOT TO SCALE

MODEL: s:\MODEL\MRF5  
FILE: MRF5\_Plan.dwg  
PROJECT: I:\Projects\DOT\Documents\DOT\_Offices\District 8\Projects\DOT\76M48\CADD\Drawings\DOT\76M48-CH-248.dwg

USER NAME = murrayda	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 2,000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 10/15/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MISCELLANEOUS DETAILS</b>			
SCALE: _____	SHEET 1	OF 1 SHEETS	STA. _____ TO STA. _____

* F.A.P. 592/ F.A.U. 8885				
F.A.P./ F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	117RS-6	MADISON	19	19
CONTRACT NO. 76M48				
ILLINOIS FED. AID PROJECT				