

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-6PP-1	MADISON	13	1
		ILLINOIS	CONTRACT NO. 76K48	

- INDEX OF SHEETS**
- 1 COVER
  - 2 HIGHWAY STANDARDS, GENERAL NOTES, & COMMITMENTS
  - 3-4 SUMMARY OF QUANTITIES
  - 5 TYPICAL SECTIONS
  - 6 SCHEDULE OF QUANTITIES
  - 7 PLAN SHEET
  - 8-10 CONSTRUCTION STAGING SHEETS
  - 11 PAVEMENT MARKING SHEETS
  - 12 MISCELLANEOUS DETAILS
  - 13 BAR SPICER DETAILS

**TRAFFIC DATA - FAI 70 (I-55/70)**

**EASTBOUND I-55 /70**  
 2015 ADT = 24,600 (ACTUAL)  
 2017 ADT = 25,100 (ESTIMATED)  
 2037 ADT = 28,900 (ESTIMATED)  
 SU = 2.0% MU = 12.2%

**EASTBOUND I-55 /70 TO NORTHBOUND I-255 RAMP**  
 2016 ADT = 5,800 (ACTUAL)  
 2017 ADT = 5,900 (ESTIMATED)  
 2037 ADT = 6,700 (ESTIMATED)  
 SU = 10.3% MU = 8.2%

**PROPOSED  
HIGHWAY PLANS**

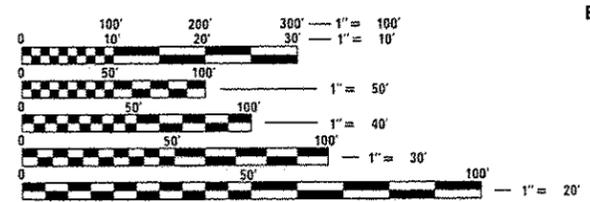
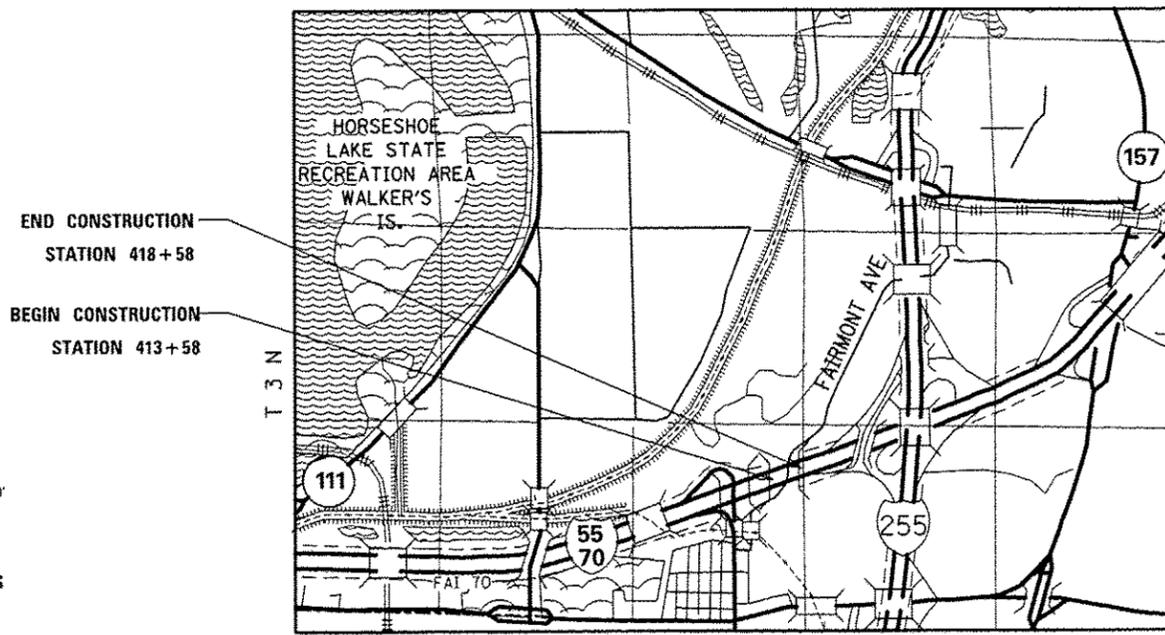
**FAI ROUTE 70 / 55 (I-70 / 55)  
SECTION 60-6PP-1**

**I-70 / 55 PATCHING  
MADISON COUNTY**

C-98-039-17



LOCATION MAP



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

END CONSTRUCTION  
 STATION 418+58

BEGIN CONSTRUCTION  
 STATION 413+58



GROSS LENGTH = 500 FT. = 0.09 MILE  
 NET LENGTH = 500 FT. = 0.09 MILE

PROJECT ENGINEER TIMOTHY PADGETT 618-346-3325  
 PROJECT MANAGER JEFFREY SCHWEIZER 618-346-3206

CONTRACT NO. 76K48

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED May 17 20 17  
Jeffrey Z. Schweizer  
 REGIONAL ENGINEER

May 12 20 17  
Marcus M. Adams PE  
 ENGINEER OF DESIGN AND ENVIRONMENT

May 12 20 17  
Annelle [Signature]  
 DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS**

LIST OF HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-08	PAVEMENT JOINTS
442001-04	CLASS A PATCHES
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-10	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-08	TWO LANE CLOSURE, FREEWAY / EXPRESSWAY
701456-04	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-06	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKINGS

GENERAL NOTES

- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY	ABOVE GROUND	BELOW GROUND
*AMEREN ILLINOIS (GAS AND ELECTRIC)	X	X
*AT&T ILLINOIS (COMMUNICATIONS)	X	X
*CITY OF COLLINSVILLE (WATER AND SANITARY SEWER)		X

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY \*.  
NON- J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING, TOPOGRAPHY, AND QUANTITIES SHOWN IN THE 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.
- THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- THE PROPOSED PAVEMENT MARKINGS SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- DIAMOND GRINDING OF THE PAVEMENT SHALL BE REQUIRED AFTER ALL THREE STAGES OF CONSTRUCTION ARE COMPLETE. SEE SPECIAL PROVISION 'PROFILE DIAMOND GRINDING CONCRETE PAVEMENT' FOR MORE INFORMATION.
- EARTH EXCAVATION FOR THIS PROJECT IS MINIMAL AND SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

- PIPE UNDERDRAIN CONSTRUCTION SHALL BE PERFORMED WHILE THE LANE OR LANES ADJACENT TO THE PIPE UNDERDRAIN CONSTRUCTION IS CLOSED TO TRAFFIC. THE PIPE UNDERDRAINS SHALL BE CONNECTED TO THE CULVERTS AS SHOWN ON THE PLANS. PRIOR TO THE START OF THIS WORK, THE METHOD AND CONSTRUCTION OF THIS WORK SHALL BE APPROVED BY THE ENGINEER. ALL WORK TO MAKE THIS CONNECTION SHALL BE INCLUDED IN THE PAY ITEM PIPE UNDERDRAINS 4 INCH. PRIOR TO REMOVING TRAFFIC CONTROL FROM THE ADJACENT LANE OR LANES THE CONTRACTOR SHALL CONSTRUCT THE SHOULDER TO ITS ORIGINAL ELEVATION.
- THE COST OF REMOVING THE EXISTING RAISED PAVEMENT MARKERS SHALL BE INCLUDED IN THE PAY ITEM CLASS A PATCHES TYPE IV, 16 INCH.
- ONLY NON-CHLORIDE CONCRETE ACCELERATOR WILL BE ACCEPTED ON THIS PROJECT. IF USED, THE ACCELERATOR SHALL MEET THE APPROVAL OF THE ENGINEER PRIOR TO POURING THE CONCRETE. ACCELERATOR WILL BE ALLOWED FOR ALL CONCRETE ITEMS SUBJECT TO THE APPROVAL OF THE ENGINEER. COST INCLUDED WITH RESPECTIVE CONCRETE ITEM.

MIX REQUIREMENTS

ROUTE	F. A. I ROUTE 70 ( I-55/70)
SECTION	60-6PP-1
COUNTY	MADISON
CONTRACT	76K48

DESCRIPTION:	PATCHING AT THE SKYHOOK BRIDGE EB LANES WILL CONSIST OF 500' X 36' CLASS A CONCRETE PATCH 16" THICK WITH 12" OF AGGREGATE / STABILIZED SUBBASE AND SHOULDER REMOVAL AND REPLACEMENT.
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MIX DESIGN TABLE	
MIXTURE USE	UNDERDRAIN HMA CAP*
AC/PG	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION
DESIGN AIR VOID	4.0% @ Ndes=30
MIX COMPOSITION (GRADATION)	IL 19.0 L
FRICTION AGG	
QUALITY MGMT PROGRAM	QC / QA

Plan quantities for Bituminous Surface Course items are calculated using a unit weight of 112 lb/sq yd/in (59.8 kg/sq m/25 mm thickness)

\*PAID FOR AS SHOULDER REMOVAL AND REPLACEMENT.

COMMITMENTS

NONE

FILE NAME = D87648-sh-t-plan.dgn	USER NAME = CopperrillPE	DESIGNED - DRAWN -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HIGHWAY STANDARDS, GENERAL NOTES, &amp; COMMITMENTS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 100.0000' / in.	CHECKED - DATE -	REVISED - REVISED -			70	60-6PP-1	MADISON	13	2
	PLOT DATE = 3/20/2017					CONTRACT NO. 76K48		ILLINOIS FED. AID PROJECT		

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100 % STATE
				ROADWAY
				0005 ✓ URBAN ✓
35101100	AGGREGATE BASE COURSE, TYPE A 12"	SQ YD	2185	2185
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	100	100
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	48	48
44200647	CLASS A PATCHES, TYPE IV, 16 INCH	SQ YD	2185	2185
44213000	PATCHING REINFORCEMENT	SQ YD	2185	2185
44213200	SAW CUTS	FOOT	3526	3526
44213204	TIE BARS 3/4"	EACH	860	860
50800105	REINFORCEMENT BARS	POUND	2495	2495
50800515	BAR SPLICERS	EACH	96	96
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	1	1
60100070	SHOULDER REMOVAL AND REPLACEMENT	FOOT	667	667
60107600	PIPE UNDERDRAINS 4"	FOOT	657	657
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	20	20
67100100	MOBILIZATION	LSUM	1	1

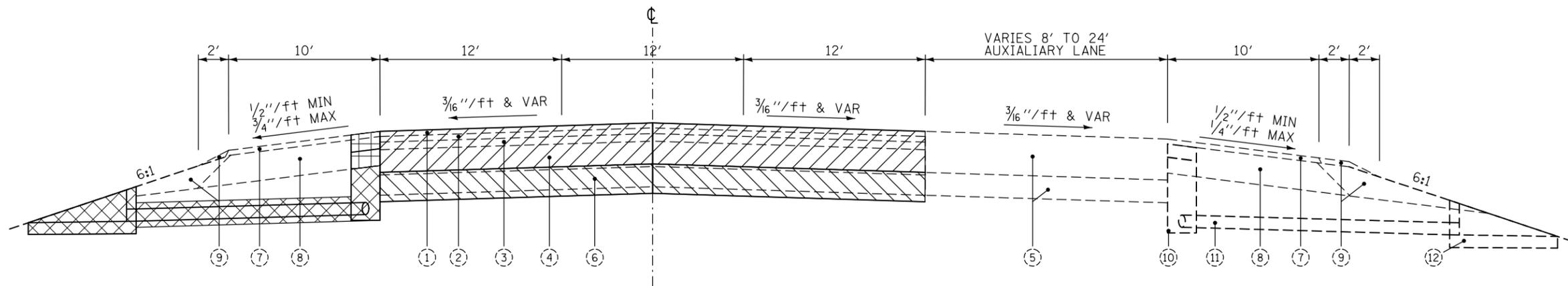
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100 % STATE
				ROADWAY
				0005 ✓ URBAN
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1	1
70100430	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	EACH	1	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	LSUM	1	1
70107006	PAVEMENT MARKING BLACKOUT TAPE, 6"	FOOT	69	69
70107008	PAVEMENT MARKING BLACKOUT TAPE, 8"	FOOT	255	255
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	272	272
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	91	91
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	750	750
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	196	196
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	750	750
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	196	196
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	26	26
X0326767	PROFILE DIAMOND GRINDING CONCRETE PAVEMENT	SQ YD	1900	1900

\* SPECIALTY ITEM

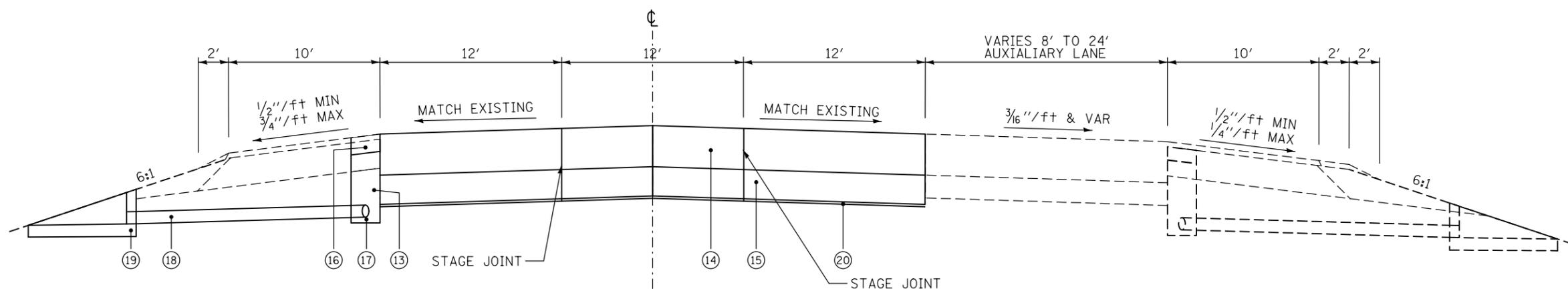
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				100 / STATE	ROADWAY
				0005	URBAN
X7010410	SPEED DISPLAY TRAILER	CAL MO	1	1	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	282	282	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	506	506	
Z0028415	GEOTECHNICAL REINFORCEMENT	SO YD	2185	2185	

4

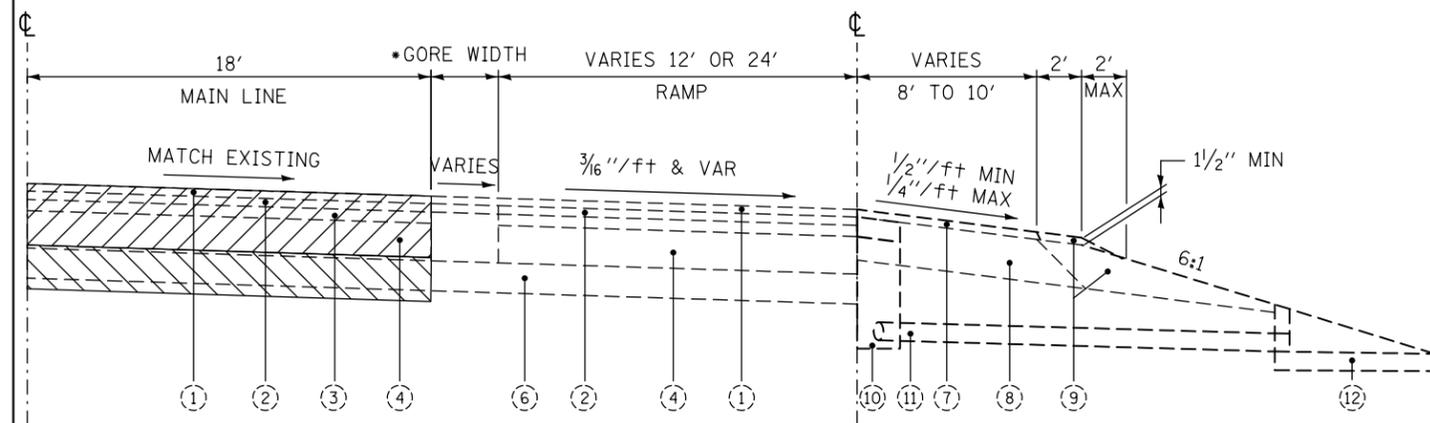


EXISTING F.A.I. ROUTE 70 EASTBOUND TYPICAL SECTION

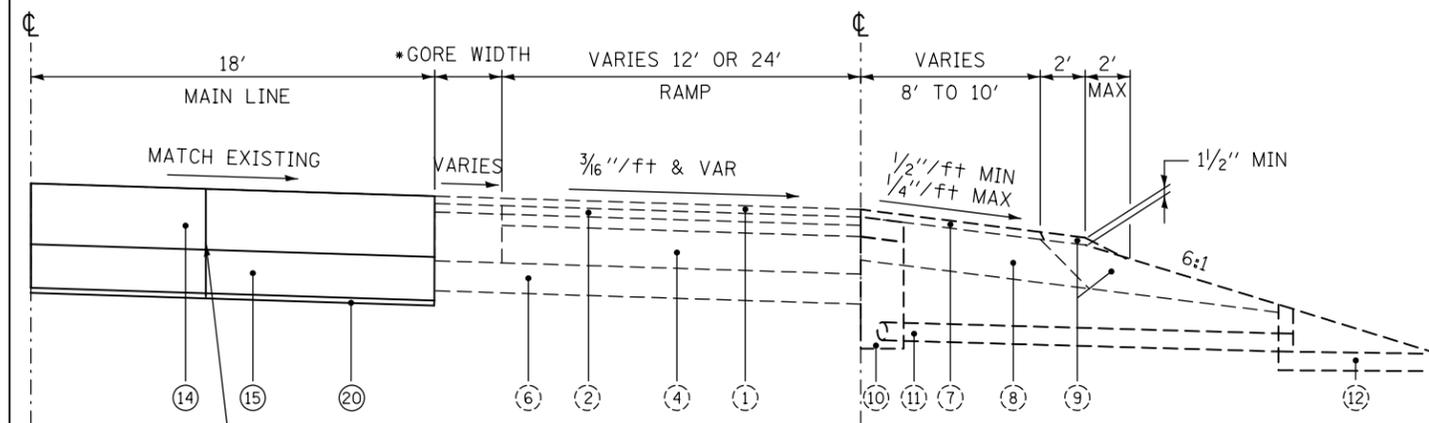


PROPOSED F.A.I. ROUTE 70 EASTBOUND TYPICAL SECTION

- LEGEND**
- ① EXISTING HMA SURFACE, 2"
  - ② EXISTING HMA BINDER, 2 1/4"
  - ③ EXISTING HMA RESURFACING, VARIES 2-4"
  - ④ EXISTING P.C.C. CONCRETE, 10"
  - ⑤ EXISTING P.C.C. CLASS A PATCHING
  - ⑥ EXISTING 8" SUB-BASE GRANULAR MATERIAL TYPE A.
  - ⑦ EXISTING HMA SHOULDER, 2"
  - ⑧ EXISTING STABILIZED SHOULDER
  - ⑨ EXISTING AGGREGATE SHOULDERS, TYPE B
  - ⑩ EXISTING PIPE DRAIN, 4"
  - ⑪ EXISTING PIPE DRAIN (SPECIAL), 4"
  - ⑫ EXISTING CONCRETE HEADWALLS FOR PIPE UNDERDRAINS
  - ⑬ PROPOSED PIPE UNDERDRAIN REMOVAL
  - ⑭ PROPOSED P.C.C. CLASS A PATCH, 16"
  - ⑮ PROPOSED STABILIZED SUBBASE, 12"
  - ⑯ PROPOSED SHOULDER REMOVAL AND REPLACEMENT, 8"
  - ⑰ PROPOSED UNDERDRAINS, 4"
  - ⑱ PROPOSED UNDERDRAINS (SPECIAL), 4"
  - ⑲ PROPOSED CONCRETE HEADWALLS FOR PIPE UNDERDRAINS
  - ⑳ PROPOSED GEOTECHNICAL REINFORCEMENT



F.A.I. ROUTE 70 EXISTING TYPICAL GORE SECTION



F.A.I. ROUTE 70 PROPOSED TYPICAL GORE SECTION

FILE NAME = D87648-sh-t-plan.dgn	USER NAME = CoppernoIPE	DESIGNED -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
	PLOT DATE = 3/20/2017	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

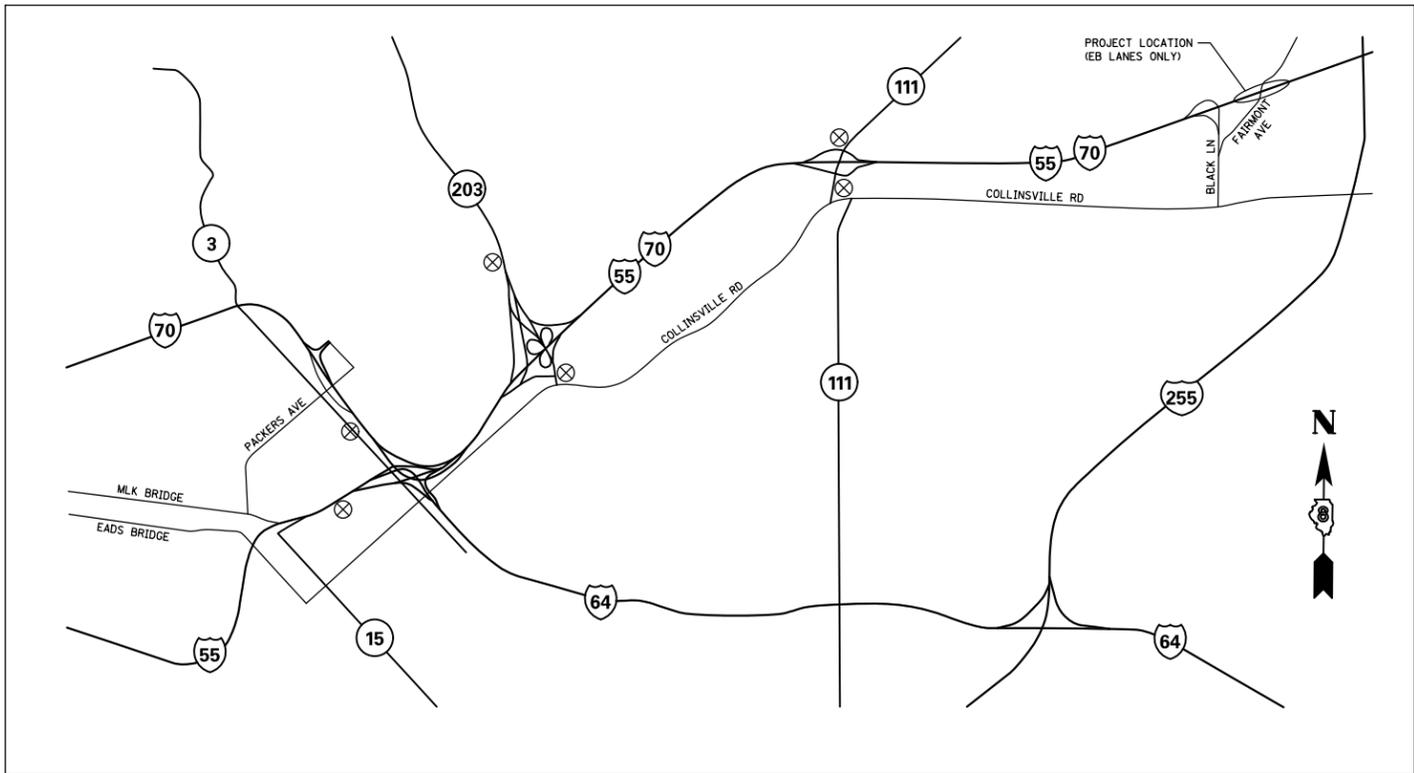
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-6PP-1	MADISON	13	5
CONTRACT NO. 76K48				
ILLINOIS FED. AID PROJECT				

CLASS A PAVEMENT PATCHING 16 INCH SCHEDULE												
LOCATION		LANE	LENGTH	LANE WIDTH	CLASS A PATCHES, TYPE IV, 16 INCH	AGGREGATE BASE COURSE, TYPE A 12"	GEOTECHNICAL REINFORCEMENT	PATCHING REINFORCEMENT	TIE BARS 3/4"	SAWCUT	EXPANSION JOINT (SPECIAL)	PROFILE DIAMOND GRINDING CONCRETE PAVEMENT
STATION			(FT)	(FT)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(EACH)	(FT)	(FT)	(SQ YD)
413+58	TO 418+58	LEFT	475.0	12.0	633.3	633.3	633.3	633.3	249	1022	24	633.3
413+58	TO 418+58	CENTER	475.0	12.0	633.3	633.3	633.3	633.3	249	1022	24	633.3
413+58	TO 418+58	RIGHT	475.0	12.0	633.3	633.3	633.3	633.3	249	1022	24	633.3
SUBTOTAL:					1900	1900	1900	1900	747	3066	72	1900
ANTICIPATED FAILURES (15%):					285	285	285	285	113	460		
TOTAL:					2185	2185	2185	2185	860	3526	72	1900

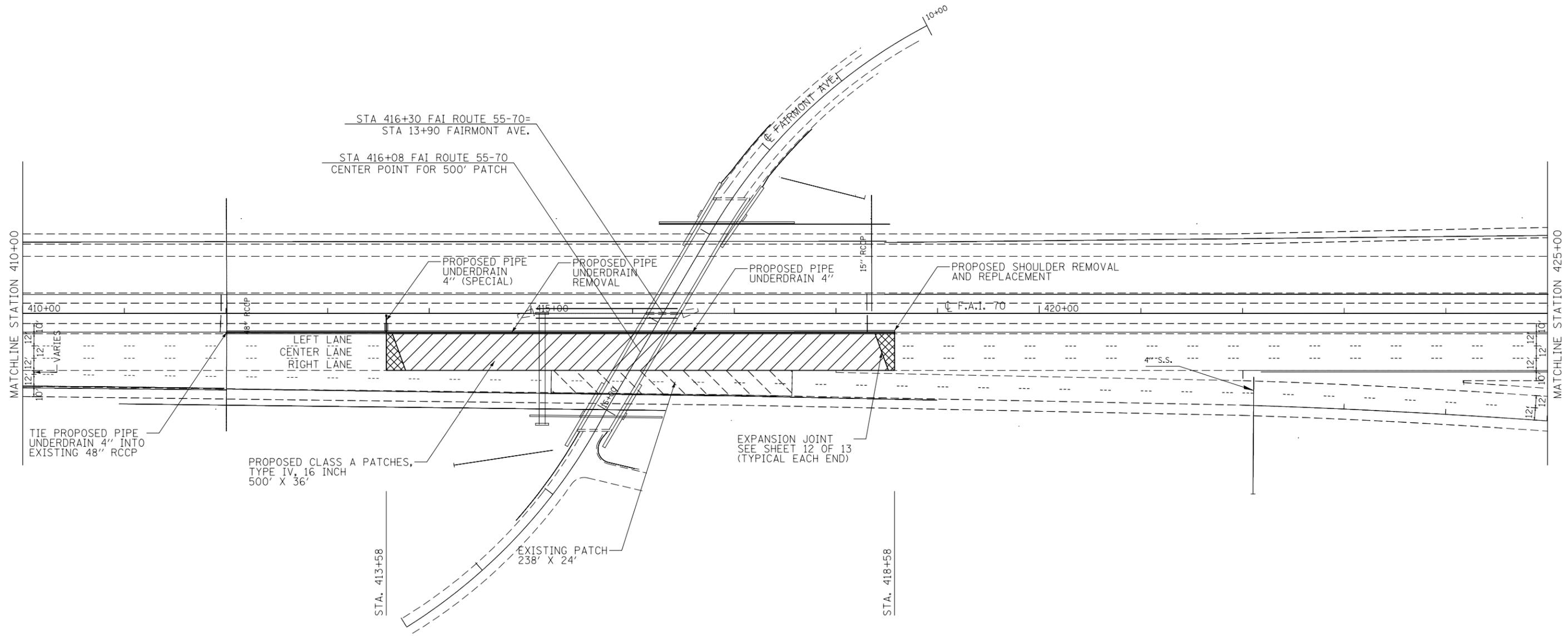
PAVEMENT MARKING SCHEDULE														
LOCATION		LANE	LENGTH	LANE WIDTH	THERMOPLASTIC PAVEMENT MARKING				RAISED REFLECTIVE PAVEMENT MARKERS	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 6"	TEMPORARY PAVEMENT MARKING - LINE 8"	TEMPORARY PAVEMENT MARKING REMOVAL
					6" YELLOW EDGE LINE	6" WHITE CENTER SKIP-DASH LINE	8" WHITE SKIP-DASH AUX LANE LINE	8" WHITE GORE MARKING						
STATION			(FT)	(FT)	(SQ YD)	(SQ YD)	(EACH)	(FT)	(EACH)	(FT)	(SQ FT)	(FT)	(FT)	(SQ FT)
413+58	TO 418+58	LEFT	500	12	500					70	23	500	0	250
413+58	TO 418+58	CENTER	500	12		125			13	100	33	125	0	63
413+58	TO 418+58	RIGHT	500	12		125	152	44	13	102	34	125	196	193
TOTAL:					500	250	152	44	26	272	91	750	196	506

BLACKOUT TAPE SCHEDULE						
LOCATION		LANE	LENGTH	PAVEMENT MARKING BLACKOUT TAPE, 6"	PAVEMENT MARKING BLACKOUT TAPE, 8"	
STATION	TO	STATION	(FT)	(FT)	(FT)	
419+58	TO 421+18	RIGHT	160	40		
420+32	TO 421+63	RIGHT	131		131	
420+78	TO 422+02	RIGHT	124		124	
421+63	TO 422+78	RAMP	115	29		
TOTAL:				69	255	

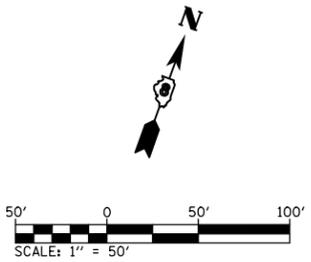
PIPE UNDERDRAIN SYSTEM SCHEDULE								
LOCATION			PIPE UNDERDRAIN REMOVAL	PIPE UNDERDRAIN 4"	PIPE UNDERDRAIN 4" (SPECIAL)		CONCRETE HEADWALL FOR PIPE DRAINS	SHOULDER REMOVAL AND REPLACEMENT 8"
			LEFT SHOULDER	LEFT SHOULDER	LEFT SHOULDER	EB MEDIAN	EB MEDIAN	LEFT SHOULDER
STATION	TO	STATION	FOOT	FOOT	FOOT	FOOT	EACH	FOOT
I-55/70								
412+01		413+58	157	157	10	10	1	167
413+58		418+58	500	500				500
SUB-TOTAL :			657	657	10	10	1	667
TOTAL :			657	657	20		1	667



⊗ PROPOSED MESSAGE BOARD LOCATIONS (6 TOTAL) (N.T.S.)



-  CLASS A PATCH, TYPE IV, 16 INCH
-  PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
-  EXISTING PATCH



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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN**

SCALE: 1" = 50'    SHEET 1 OF 1 SHEETS    STA. 410+00 TO STA. 425+00

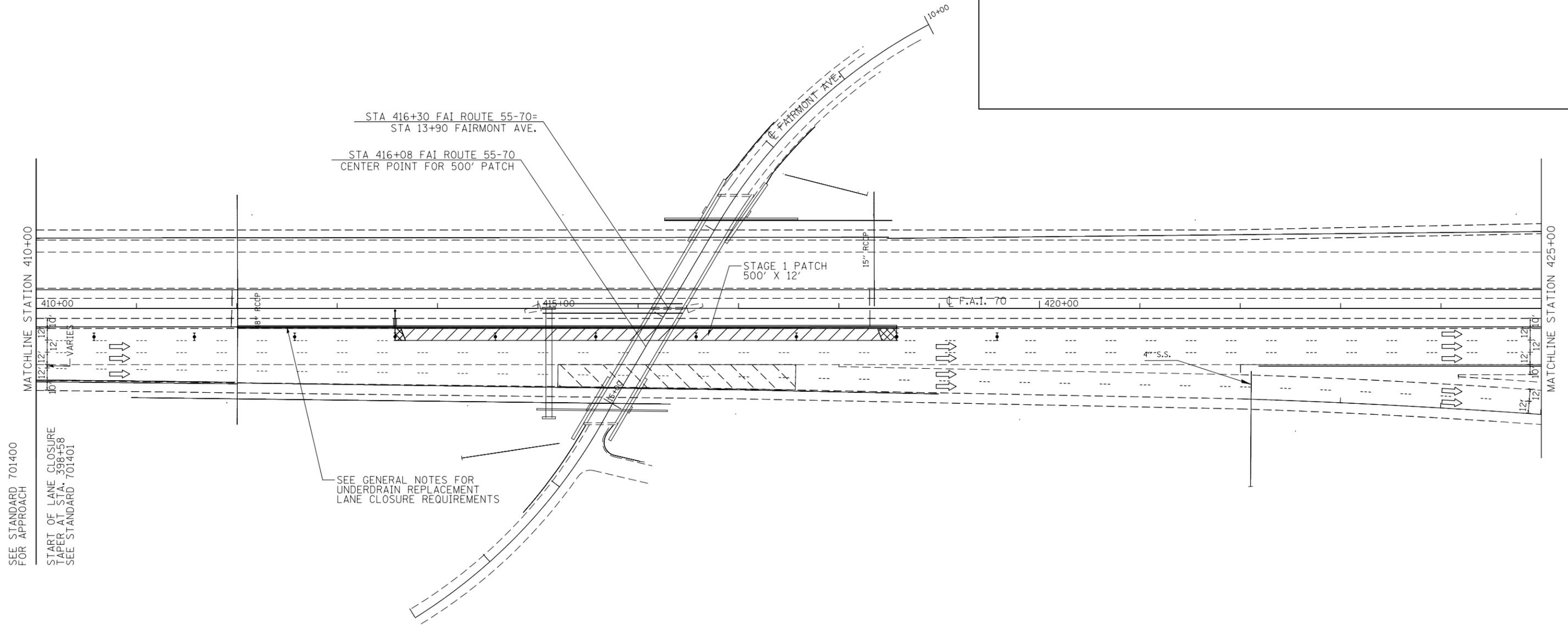
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-6PP-1	MADISON	13	7
CONTRACT NO. 76K48				
ILLINOIS FED. AID PROJECT				

**STAGING GENERAL NOTES:**

THE CONTRACTOR WILL BE ALLOWED TO SAW CUT THE PAVEMENT FOR EACH STAGE THREE CALENDAR DAYS PRIOR TO THE START OF STAGE CONSTRUCTION.

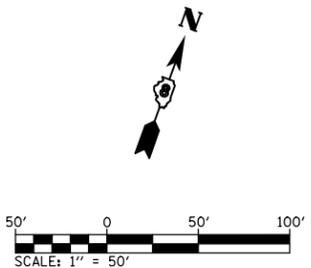
QUANTITIES AND THE ESTIMATE OF TIME ARE BASED ON THE THREE CONSTRUCTION STAGES FOR THE PATCHING BEING ACCOMPLISHED ON THREE SEPARATE WEEKENDS WITH THE FOURTH WEEKEND BEING UTILIZED FOR PROFILING AND PERMANENT PAVEMENT MARKINGS. THE PIPE UNDERDRAIN REMOVAL AND REPLACEMENT IS ASSUMED TO OCCUR DURING STAGE I AND/OR STAGE II.

TRAFFIC CONTROL FOR THIS WORK SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARDS 701401 AND 701400.



-  CLASS A PATCH, TYPE IV, 16 INCH
-  PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
-  EXISTING PATCH

 OPEN LANE TRAFFIC FLOW



SEE STANDARD 701400 FOR APPROACH  
 START OF LANE CLOSURE TAPER AT STA. 398+58  
 SEE STANDARD 701401

SEE GENERAL NOTES FOR UNDERDRAIN REPLACEMENT LANE CLOSURE REQUIREMENTS

FILE NAME = D87648-sh1-plan.dgn	USER NAME = CoppernoIPE	DESIGNED -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
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		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE 1 CONSTRUCTION PLAN**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 410+00 TO STA. 425+00

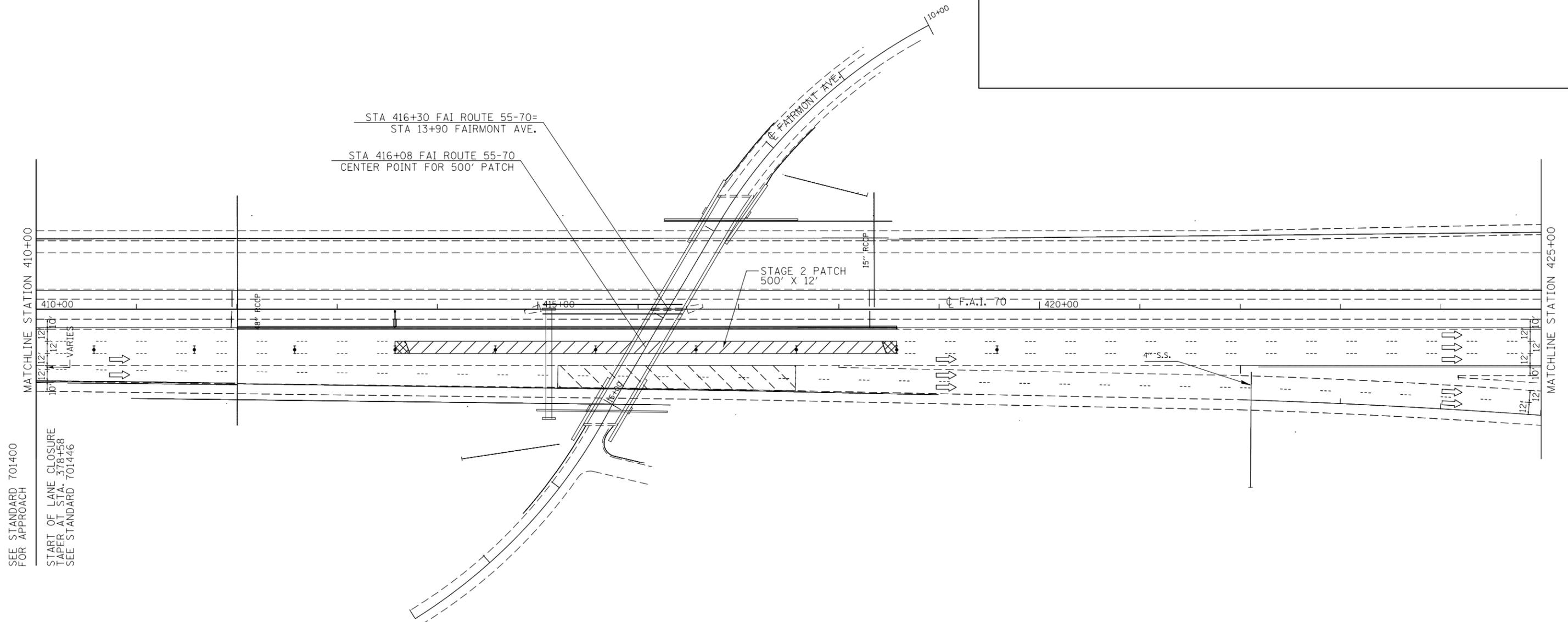
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-6PP-1	MADISON	13	8
CONTRACT NO. 76K48				
ILLINOIS FED. AID PROJECT				

**STAGING GENERAL NOTES:**

THE CONTRACTOR WILL BE ALLOWED TO SAW CUT THE PAVEMENT FOR EACH STAGE THREE CALENDAR DAYS PRIOR TO THE START OF STAGE CONSTRUCTION.

QUANTITIES AND THE ESTIMATE OF TIME ARE BASED ON THE THREE CONSTRUCTION STAGES FOR THE PATCHING BEING ACCOMPLISHED ON THREE SEPARATE WEEKENDS WITH THE FOURTH WEEKEND BEING UTILIZED FOR PROFILING AND PERMANENT PAVEMENT MARKINGS. THE PIPE UNDERDRAIN REMOVAL AND REPLACEMENT IS ASSUMED TO OCCUR DURING STAGE I AND/OR STAGE II.

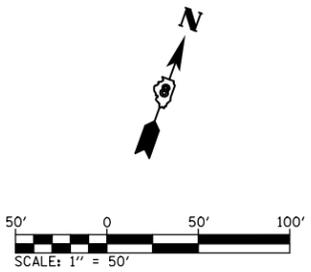
TRAFFIC CONTROL FOR THIS WORK SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARDS 701446 AND 701400.



SEE STANDARD 701400 FOR APPROACH  
 START OF LANE CLOSURE TAPER AT STA. 378+58  
 SEE STANDARD 701446

-  CLASS A PATCH, TYPE IV, 16 INCH
-  PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
-  EXISTING PATCH

 OPEN LANE TRAFFIC FLOW



FILE NAME = D87648-sh2-plan.dgn	USER NAME = CoppernoIPE	DESIGNED -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
	PLOT DATE = 3/20/2017	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE 2 CONSTRUCTION PLAN**

SCALE: 1" = 50'    SHEET 1 OF 1 SHEETS    STA. 410+00 TO STA. 425+00

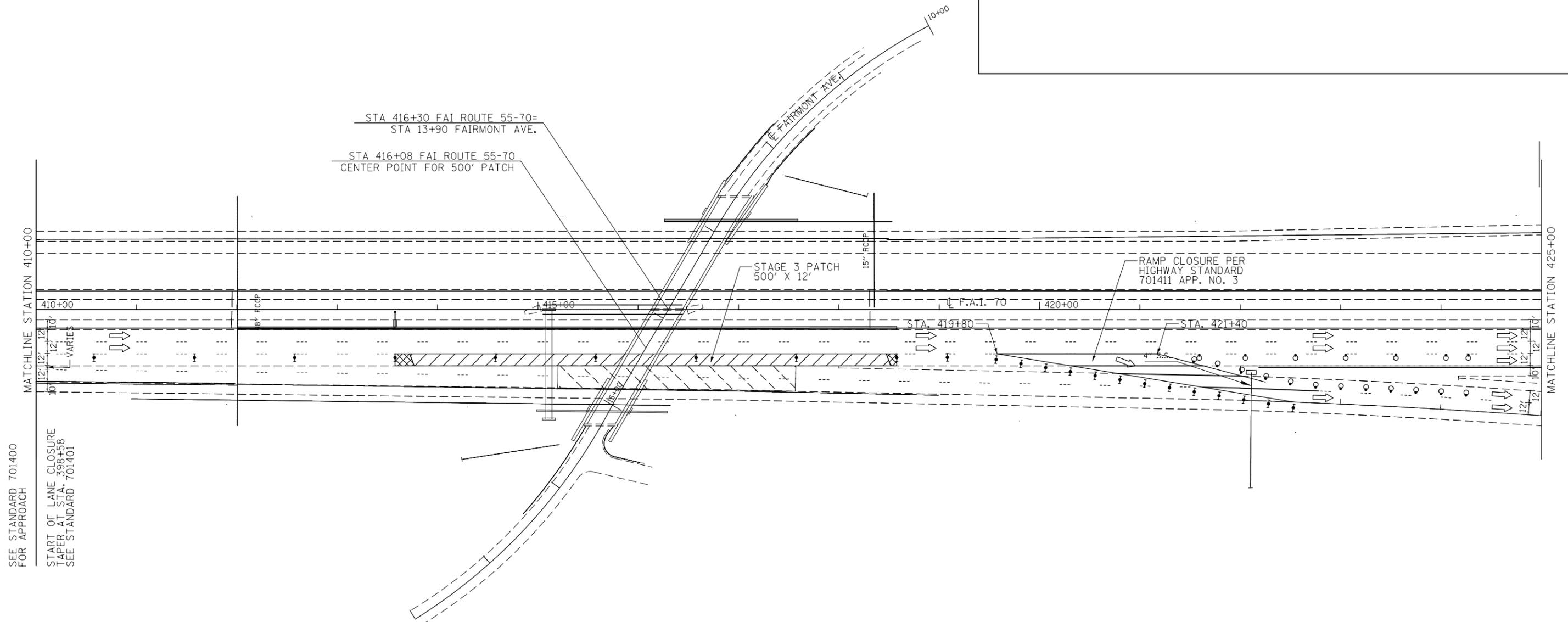
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-6PP-1	MADISON	13	9
CONTRACT NO. 76K48				
ILLINOIS FED. AID PROJECT				

**STAGING GENERAL NOTES:**

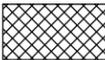
THE CONTRACTOR WILL BE ALLOWED TO SAW CUT THE PAVEMENT FOR EACH STAGE THREE CALENDAR DAYS PRIOR TO THE START OF STAGE CONSTRUCTION.

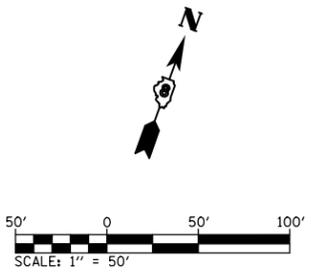
QUANTITIES AND THE ESTIMATE OF TIME ARE BASED ON THE THREE CONSTRUCTION STAGES FOR THE PATCHING BEING ACCOMPLISHED ON THREE SEPARATE WEEKENDS WITH THE FOURTH WEEKEND BEING UTILIZED FOR PROFILING AND PERMANENT PAVEMENT MARKINGS. THE PIPE UNDERDRAIN REMOVAL AND REPLACEMENT IS ASSUMED TO OCCUR DURING STAGE I AND/OR STAGE II.

TRAFFIC CONTROL FOR THIS WORK SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARDS 701401, 701400, AND 701411.



SEE STANDARD 701400 FOR APPROACH  
 START OF LANE CLOSURE TAPER AT STA. 398+58  
 SEE STANDARD 701401

	CLASS A PATCH, TYPE IV, 16 INCH		OPEN LANE TRAFFIC FLOW
	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB		
	EXISTING PATCH		



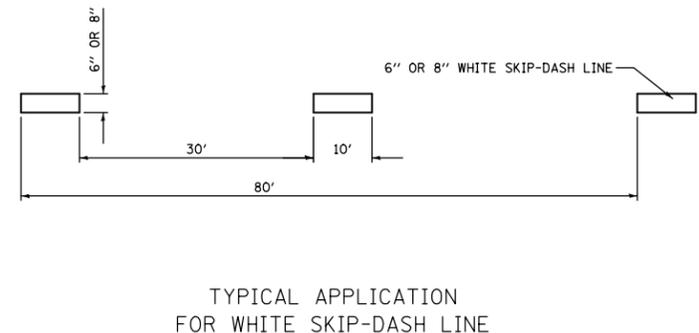
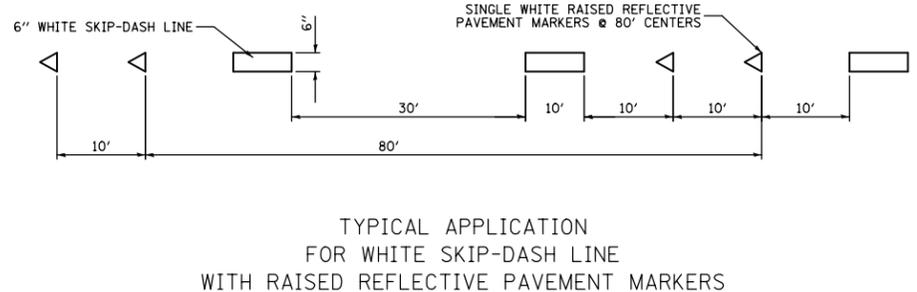
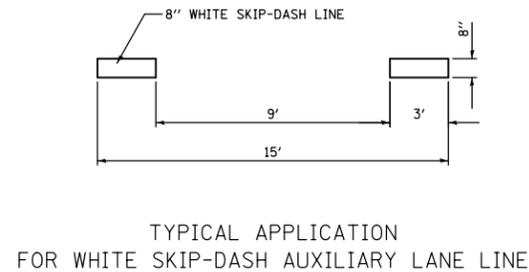
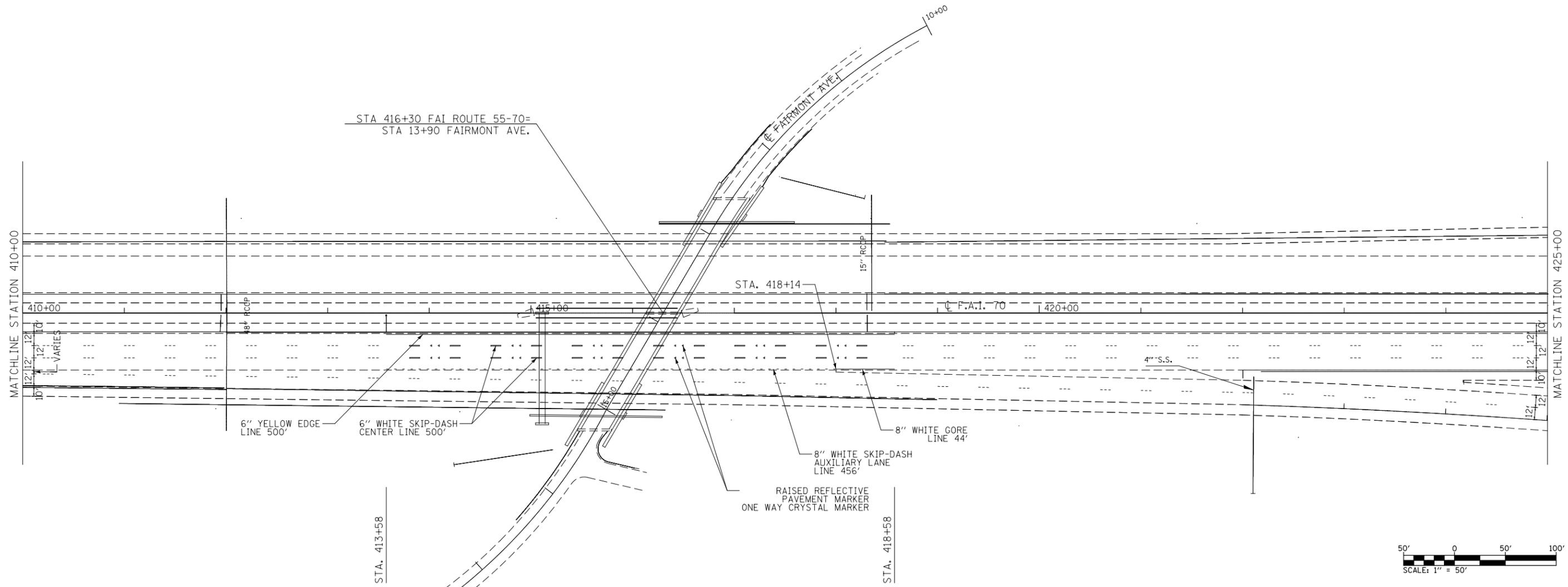
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Default	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
	PLOT DATE = 3/20/2017	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE 3 CONSTRUCTION PLAN**

SCALE: 1" = 50'    SHEET 1    OF 1    SHEETS    STA. 410+00    TO STA. 425+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-6PP-1	MADISON	13	10
CONTRACT NO. 76K48				
ILLINOIS FED. AID PROJECT				



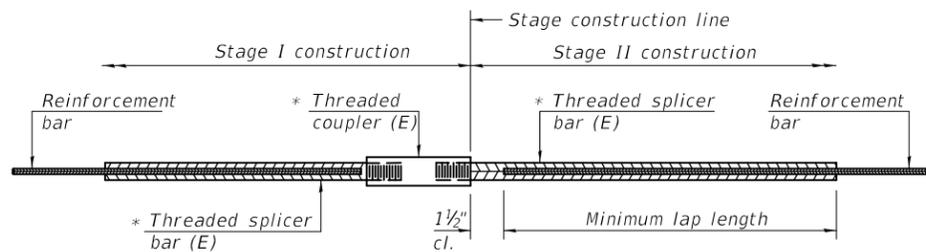
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Default	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
	PLOT DATE = 3/20/2017	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING**  
SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 410+00 TO STA. 425+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-6PP-1	MADISON	13	11
CONTRACT NO. 76K48				
ILLINOIS FED. AID PROJECT				



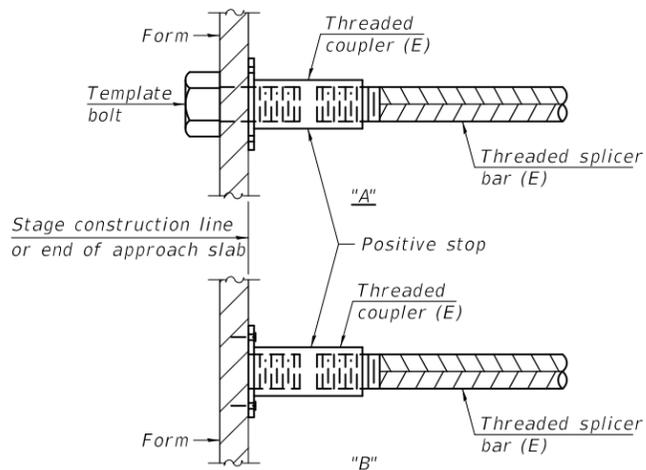


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

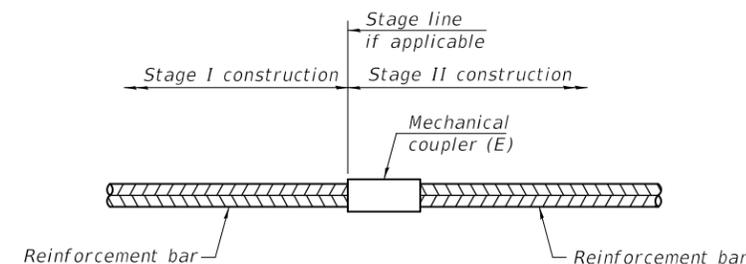
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
SLEEPER SLAB	#5	96	2'-7"



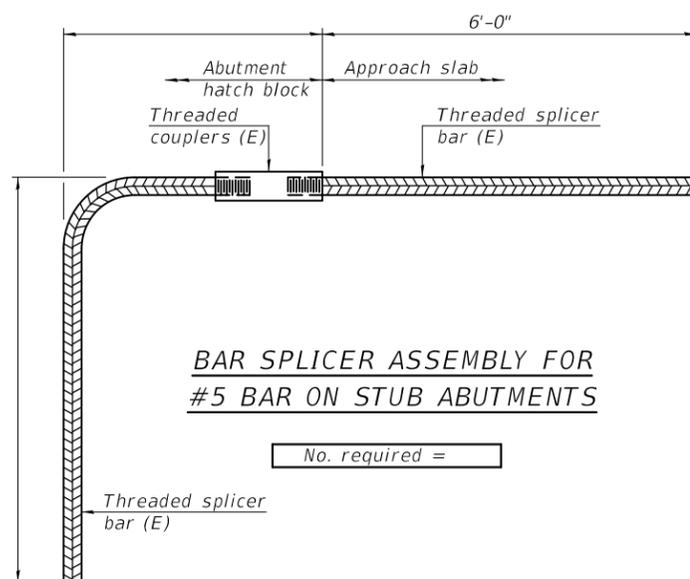
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017

FILE NAME = D87648-sh1-plan.dgn	USER NAME = CopperrillPE	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 100.0000' / 1in.	DRAWN -	REVISED -					70	60-6PP-1	MADISON	13	13
	PLOT DATE = 3/20/2017	CHECKED -	REVISED -		SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A			CONTRACT NO. 76K48				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							