

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 817 (IL 415)
SECTION 421RS-7
SMART RESURFACING
ST. CLAIR COUNTY

C-98-010-19

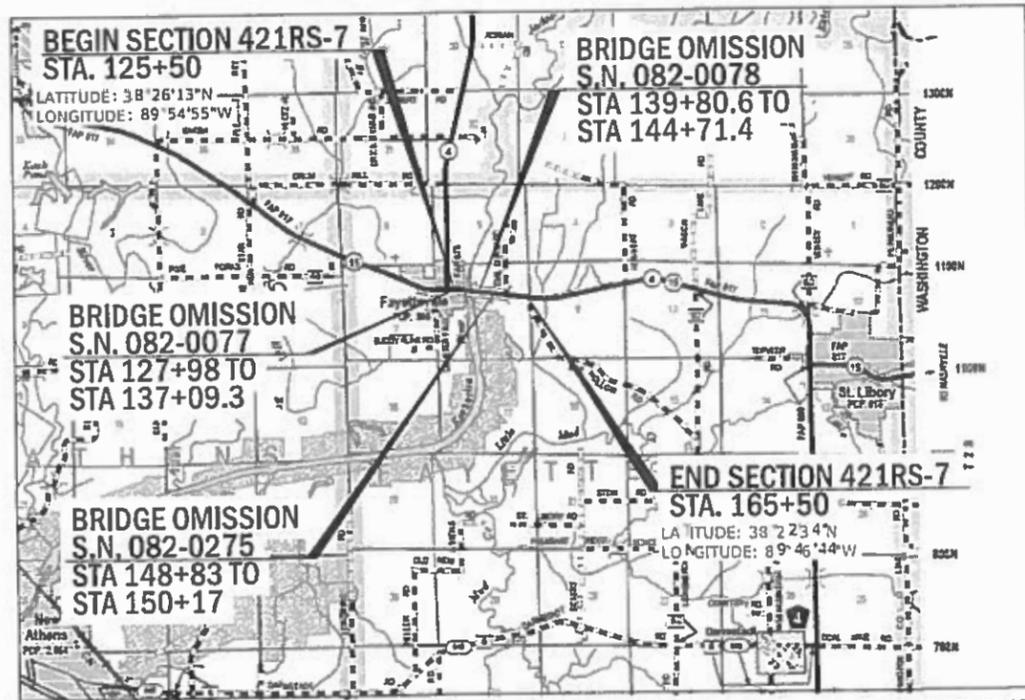
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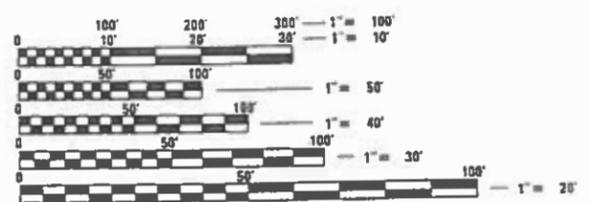
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	421RS-7	ST. CLAIR	7	1



IL ROUTE 4 / 15
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
2019 ADT: 4,800
MU %: 8.4%
SU %: 17.9%



RANGE 6 WEST, TOWNSHIP 2 SOUTH
APPROXIMATE SCALE 1" = 1 MILE
LOCATION MAP
GROSS LENGTH = 4,000.0' (0.757 MILES)
BRIDGE OMISSION = 1,536.1' (0.291 MILES)
NET LENGTH = 2,463.9' (0.467 MILES)



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

PROJECT ENGINEER TIM PADGETT (618)346-3325
PROJECT MANAGER PHIL COPPERNOLL (618)346-3181

CONTRACT NO. 76M02



PLOT DATE: 12/8/2018 9:18:46 AM



SIGNATURE: *[Signature]*
DATE SIGNED: 12/8/2018
LICENSE EXPIRATION DATE: 11 - 30 - 2019
THIS SEAL APPLIES TO SHEETS: 1 - 7

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED: Dec 14 20 18
[Signature] REGIONAL ENGINEER
May 10 20 19
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT
May 10 20 19
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES:

1. 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:

COMPANY	ABOVE GROUND	BELOW GROUND
* Ameren Illinois	X	X
* AT&T Illinois	X	X
* Clearview Communications	X	X
* Village of Fayetteville		X
* Frontier Communications	X	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.

- THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THE RESURFACING 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 THICKNESS OF HOT-MIX ASPHALT SURFACE MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- THE USE OF VIBRATORY ROLLERS WILL NOT BE PERMITTED WITHIN THE CITY LIMITS OF FAYETTEVILLE. THIS DOES NOT RELIEVE THE CONTRACTOR OF DENSITY REQUIREMENTS FOR THE CONSTRUCTION OF THE BITUMINOUS PAVEMENTS AS SPECIFIED IN SECTIONS 406 & 407 OF THE STANDARD SPECIFICATIONS
- AN ESTIMATED QUANTITY OF 598 TONS OF CUTTINGS FROM THE HOT-MIX ASPHALT SURFACE REMOVAL OPERATION IS ANTICIPATED.
- NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
- THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING OR AS DIRECTED BY THE ENGINEER.
- THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

- THE TEMPORARY RAMPS USED ON ALL SIDE STREETS AND ENTRANCES SHALL BE 3 FEET IN LENGTH SO AS NOT TO INTERFERE WITH THE THRU TRAFFIC LANES.
- FLAGGERS SHALL BE REQUIRED AT ALL TIMES DURING PATCHING OPERATIONS.
- THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL TIMES.
- PROJECT SHALL BE CONSTRUCTED WITHOUT DISTURBING THE EXISTING GUARDRAIL OR THE EXISTING BRIDGE RAIL.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND/OR MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED, OR REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENT DESTROYED BY HIS OPERATIONS.

HIGHWAY STANDARDS

- 000001-07 STANDARD ABBREVIATIONS AND SYMBOLS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 420001-09 PAVEMENT JOINTS
- 442201-03 CLASS C & D PATCHES
- 482011-03 HMA SHOULDER, STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 701011-04 OFF-RD MOVING OPERATION
- 701201-05 LANE CLOSURE, 2L, 2W DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
- 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS DAY ONLY
- 701336-07 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES
- 701901-08 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKING
- 781001-04 RAISED REFLECTIVE MARKERS

COMMITMENTS

NONE.

RATES OF APPLICATION

FACTORS FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

HOT-MIX ASPHALT SURFACE COURSE	0.056 TON/SQ YD/IN
AGGREGATE (SURFACE, BASE, & BACKFILL)	2.05 TON/CU YD
BITUMINOUS MATERIALS:	
TACK COAT FOR BITUMINOUS CONCRETE:	
-ON EXISTING PAVEMENT	0.05 LB/SQ FT
-ON COLD MILLED SURFACE	0.05 LB/SQ FT

MIXTURE REQUIREMENTS				
MIXTURE USE	POLYSURFACE	PATCHING	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"
AC/PG	SBS PG 76-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=30	4.0% @ Ndes=30
MIX COMPOSITION (GRADATION)	IL 9.5	IL 19.0	IL 19.0L	IL 9.5L
FRICTION AGG	MIXTURE "D"	MIXTURE "B"		
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA

PLAN QUANTITIES FOR HMA COURSE ITEMS ARE CALCULATED USING A WEIGHT OF 112 LBS/SQ YD/IN.

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DRAWN - GDO	REVISIONS -	817				421RS-7	ST. CLAIR	7	2		
PLOT SCALE = 2,0000 ' / in.	CHECKED - STS	REVISED -		SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.
PLOT DATE = 12/10/2018	DATE - 12/10/2018	REVISED -						ILLINOIS		FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				FAP 817	
				ROADWAY 0005	RURAL
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,557	2,557	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	96	96	
40600990	TEMPORARY RAMP	SQ YD	201	201	
40603540	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	478	478	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	7,026	7,026	
44200192	PAVEMENT PATCHING, TYPE II, 16 INCH	SQ YD	227	227	
44200196	PAVEMENT PATCHING, TYPE III, 16 INCH	SQ YD	259	259	
44200198	PAVEMENT PATCHING, TYPE IV, 16 INCH	SQ YD	486	486	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	83	83	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	122	122	
67100100	MOBILIZATION	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	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				FAP 817	
				ROADWAY 0005	RURAL
70300100	SHORT TERM PAVEMENT MARKING	FOOT	233	233	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	78	78	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8819	8819	
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8,819	8,819	
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	30	30	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	30	30	
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	2,325	2,325	
Z0070100	SURVEY MONUMENT COVER ASSEMBLY	EACH	1	1	

* SPECIALTY ITEM

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	DRAWN - GDO	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - STS	REVISED -
PLOT DATE = 12/10/2018	DATE - 12/10/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	421RS-7	ST. CLAIR	7	3
			CONTRACT NO. 76M02	
			ILLINOIS FED. AID PROJECT	

RESURFACING SCHEDULE								
LOCATION				LONGITUDINAL JOINT SEALANT	HMA SURFACE REMOVAL - BUTT JOINT	BITUMINOUS MATERIAL (TACK COAT) 1 LIFT	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"	HMA SURFACE REMOVAL, 1 1/2"
STA	TO	STA	SIDE	(FOOT)	(SQ YD)	(FOUND)	(TON)	(SQYD)
125+50	TO	127+78	LT/RT	228	24	251	47	533
137+29	TO	139+61	LT/RT	232	24	255	48	543
144+91	TO	148+53	LT/RT	362	24	398	74	860
150+47	TO	165+50	LT/RT	1503	24	1653	309	3650
TOTAL:				2325	96	2557	478	5586

TEMPORARY RAMPS					
CL LOCATION OF TEMP RAMP	LOCATION	RAMP LENGTH	3' RAMP (SQ YD)	40:1 RAMP (SQ YD)	REMARKS
125+50				12	BEGINNING OF PROJECT
127+78				12	S.N. 082-077
137+29				12	S.N. 082-077
138+03	LT	28	9		
138+55	RT	36	12		
139+61				12	S.N. 082-078
144+91				12	S.N. 082-078
146+04	RT	39	13		
148+53				12	S.N. 082-0275
150+47				12	S.N. 082-0275
152+25	LT	64	21		EMIL BURGARD LN
155+21	RT	150	50		
165+50				12	END OF PROJECT
SUBTOTAL:			105	96	
TOTAL:			201		

SHOULDER SCHEDULE						
LOCATION				HMA SHOULDERS, 1 1/2"	HMA SURFACE REMOVAL, 1 1/2"	AGGREGATE WEDGE SHOULDER TYPE B
STA	TO	STA	SIDE	(TON)	(SQ YD)	(TON)
125+50	TO	126+80	LT/RT	6	72	5
126+80	TO	127+78	RT	4	44	2
126+80	TO	127+86	LT	4	47	2
137+26	TO	138+00	LT/RT	7	82	3
138+00	TO	139+69	LT/RT	19	225	7
144+83	TO	146+84	LT/RT	19	223	8
146+84	TO	148+53	LT/RT	8	94	7
150+47	TO	153+61	LT/RT	15	174	13
156+81	TO	165+50	LT	20	241	18
156+95	TO	165+50	RT	20	238	18
TOTAL:				122	1440	83

PAVEMENT MARKING SCHEDULE											
LOCATION			ROADWAY	LOCATION	THERMOPLASTIC PAVEMENT MARKING		RAISED REFLECTOR PAVEMENT MARKER TWO-WAY AMBER	RAISED REFLECTOR PAVEMENT MARKER REMOVAL	TEMPORARY PAVEMENT MARKINGS (1 LIFT) (FOOT)	SHORT-TERM PAVEMENT MARKING (1 LIFTS) (YELLOW) (FOOT)	SHORT-TERM PAVEMENT MARKING (1 LIFT) (SQ FT)
STA	TO	STA			LINE, 4" SOLID (WHITE) (FOOT)	LINE, 4" SKIP-DASH (YELLOW) (FOOT)	(EACH)	(EACH)	(FOOT)	(FOOT)	(SQ FT)
125+50	TO	165+50	ILLINOIS ROUTE 4/15	CL		1000			1000		
125+50	TO	154+68	ILLINOIS ROUTE 4/15	RT	2918				2918		
125+50	TO	151+80	ILLINOIS ROUTE 4/15	LT	2630				2630		
125+50	TO	127+78	ILLINOIS ROUTE 4/15	CL			3	3		23	8
137+29	TO	139+61	ILLINOIS ROUTE 4/15	CL			3	3		23	8
144+91	TO	148+61	ILLINOIS ROUTE 4/15	CL			5	5		37	12
150+53	TO	165+50	ILLINOIS ROUTE 4/15	CL			19	19		150	50
152+40	TO	165+50	ILLINOIS ROUTE 4/15	LT	1310				1310		
155+89	TO	165+50	ILLINOIS ROUTE 4/15	RT	961				961		
TOTAL:					8819		30	30	8819	233	78

NOTE: SHORT TERM AND TEMPORARY PAVEMENT MARKING SHALL NOT BE USED ON S.N. 087-0077, S.N. 087-078 AND S.N. 082-0275

PAVEMENT PATCHING 16 INCH SCHEDULE									
LOCATION	WIDTH	LANE	LENGTH (FT)	WB LANE WIDTH (FT)	EB LANE WIDTH (FT)	AREA (SQ. YD.)	PAVEMENT PATCHING TYPE II (SQ. YD.)	PAVEMENT PATCHING TYPE III (SQ. YD.)	PAVEMENT PATCHING TYPE IV (SQ. YD.)
125+50	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
125+50	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
125+50	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
125+50	Full	EB & WB	40.0	11.0	11.0	97.8			97.8
136+06	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
136+06	Full	EB & WB	12.0	11.0	11.0	29.3			29.3
136+06	Full	EB & WB	12.0	11.0	11.0	29.3			29.3
136+06	6	WB	10.0	6.0		6.7	6.7		
136+06	Full	EB & WB	20.0	11.0	11.0	48.9			48.9
136+06	Full	EB & WB	12.0	11.0	11.0	29.3			29.3
136+06	Full	EB & WB	12.0	11.0	11.0	29.3			29.3
136+06	Full	EB & WB	20.0	11.0	11.0	48.9			48.9
141+34	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
141+34	Full	EB & WB	30.0	11.0	11.0	73.3			73.3
141+34	Full	EB & WB	10.0	11.0	11.0	24.4			24.4
146+62	6	EB	30.0		6.0	20.0			20.0
146+62	Full	EB & WB	8.0	11.0	11.0	19.6			19.6
146+62	Full	EB & WB	8.0	11.0	11.0	19.6			19.6
146+62	Full	EB & WB	8.0	11.0	11.0	19.6			19.6
146+62	Full	EB & WB	8.0	11.0	11.0	19.6			19.6
146+62	Full	EB & WB	15.0	11.0	11.0	36.7			36.7
146+62	Full	EB & WB	8.0	11.0	11.0	19.6			19.6
151+90	Full	EB & WB	8.0	11.0	11.0	19.6			19.6
151+90	Full	EB & WB	8.0	11.0	11.0	19.6			19.6
151+90	Full	EB & WB	8.0	11.0	11.0	19.6			19.6
151+90	Full	EB & WB	10.0	11.0	11.0	24.4			24.4
151+90	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
151+90	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
157+18	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
157+18	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
157+18	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
162+46	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
162+46	Full	EB & WB	6.0	11.0	11.0	14.7	14.7		
162+46	Full	EB & WB	8.0	11.0	11.0	19.6			19.6
RURAL SUBTOTAL:							197.3	225.3	422.9
ANTICIPATED FAILURES (15%):							29.6	33.8	63.4
TOTAL:							227	259	486

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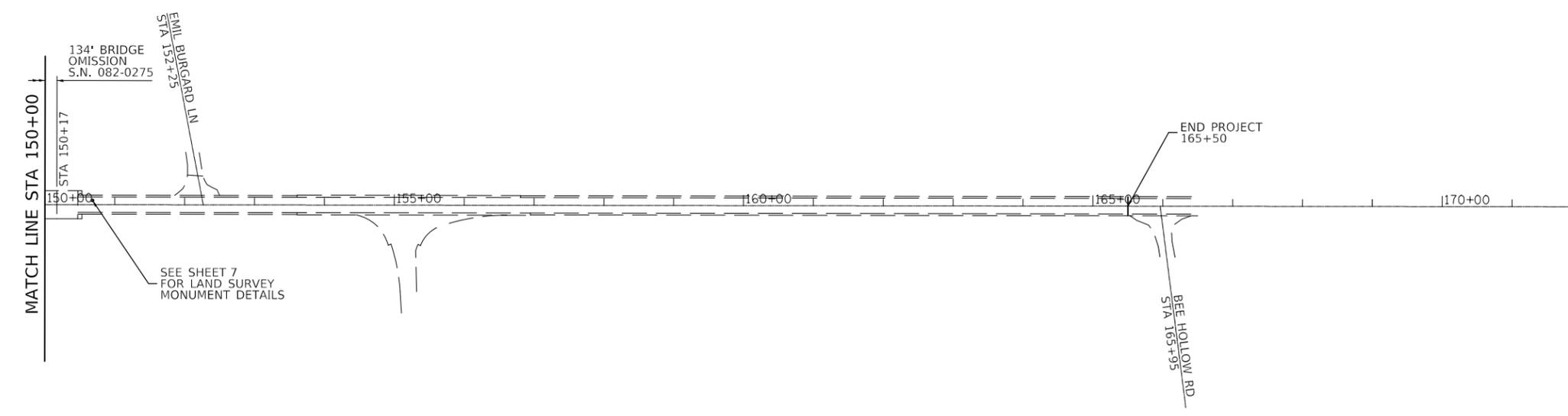
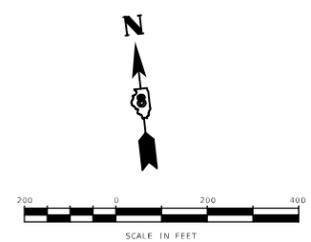
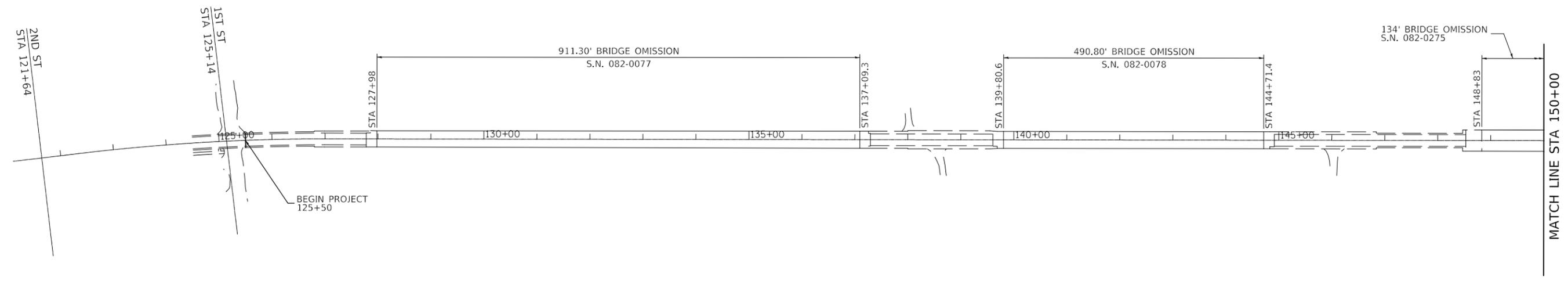
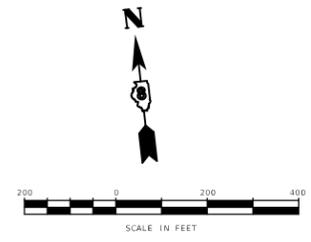
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	DRAWN - GDO	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - STS	REVISED -
PLOT DATE = 12/10/2018	DATE - 12/10/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 817	SECTION 421RS-7	COUNTY ST. CLAIR	TOTAL SHEETS 7	SHEET NO. 5
CONTRACT NO. 76M02				
ILLINOIS FED. AID PROJECT				



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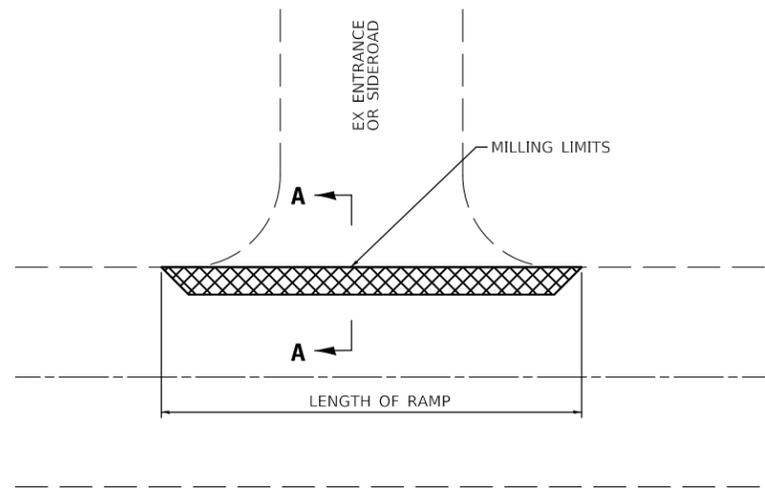
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	DRAWN - GDO	REVISED -
PLOT SCALE = 200.0000' / in.	CHECKED - STS	REVISED -
PLOT DATE = 12/7/2018	DATE - 12/7/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

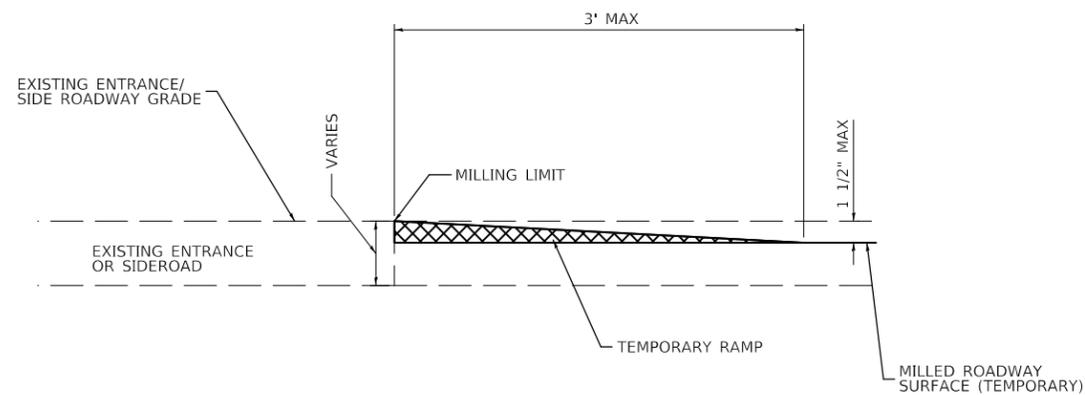
ROADWAY PLAN
ILLINOIS 4 / ILLINOIS 15

SCALE: SHEET OF SHEETS STA. 125+50 TO STA. 165+50

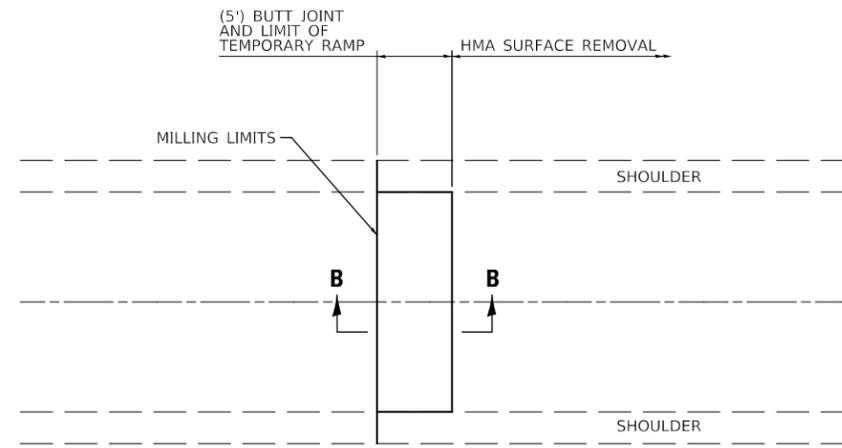
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	421RS-7	ST. CLAIR	7	6
CONTRACT NO. 76M02				
ILLINOIS		FED. AID PROJECT		



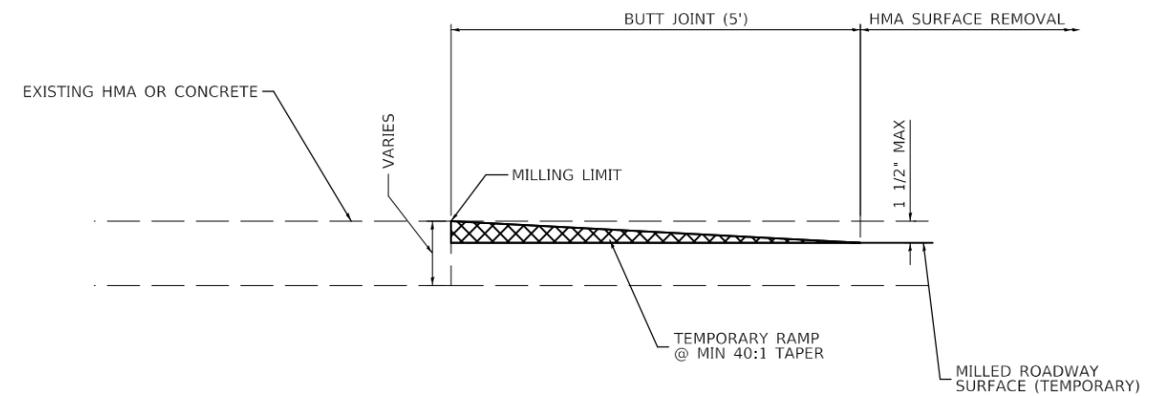
TEMPORARY RAMP AND MILLING LIMITS AT SIDE STREETS DETAIL



TEMPORARY RAMP SECTION A-A

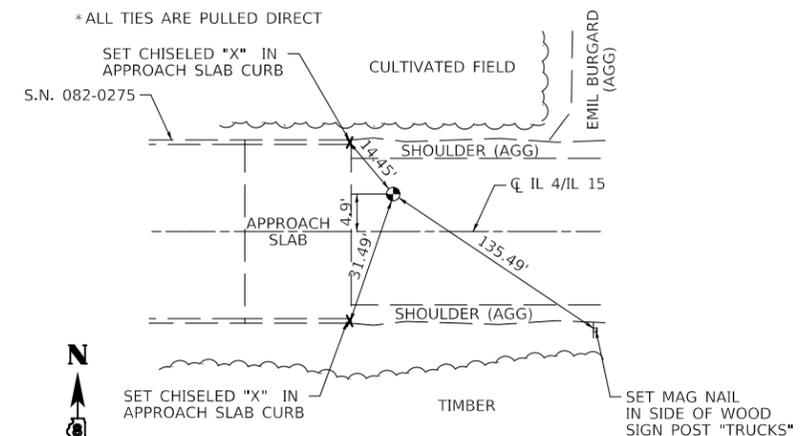


BUTT JOINT AND MILLING DETAIL



BUTT JOINT AND MILLING DETAIL B-B

LAND SURVEY MONUMENT 1



FOUND SPIKE NAIL

(GPS POINT N=622,782.555, E=2,406,273.901)

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USER NAME = gowens	DESIGNED - GDO	REVISED -
	DRAWN - GDO	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - STS	REVISED -
PLOT DATE = 12/7/2018	DATE - 12/7/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	421RS-7	ST. CLAIR	7	7
CONTRACT NO. 76M02				
ILLINOIS FED. AID PROJECT				