09-17-2021 LETTING ITEM 069

SHEET

INDEX OF SHEETS

COVER SHEET

2 GENERAL NOTES, TYPICAL SECTIONS, AND HIGHWAY STANDARDS

3-4 SUMMARY OF QUANTITIES

5 SCHEDULES OF QUANTITIES

6-7 ROADWAY PLANS AND TIE POINTS

8 SPECIAL DETAILS

DESCRIPTION OF WORK

THE PROJECT CONSISTS OF 1" OF MILLING AND 3" OF RESURFACING.
THE MILLED SURFACE SHALL BE RESURFACED WITH 3" OF HOT-MIX ASPHALT
PAVEMENT. ALSO INCLUDED WILL BE HOT-MIX ASPHALT APRONS AT ENTRANCES,
PAVEMENT MARKING, AND RAISED REFLECTIVE PAVEMENT MARKERS.

GAS & ELECTRIC

AMEREN 104 EAST 3RD STREET BEARDSTOWN, ILLINOIS 62618

ILLINOIS RURAL ELECTRIC 2 SOUTH MAIN WINCHESTER, IL 62694 CASS COMMUNICATIONS INC. 1 REDBUD ROAD VIRGINIA, ILLINOIS 62691

COMMUNICATIONS

CITY OF BEARDSTOWN 105 WEST 3RD STREET BEARDSTOWN, ILLINOIS 62618

0 100' 200' 300' — 1" = 100'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 30'

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

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

OR 811

PROJECT ENGINEER: BRIAN M. BORGMAN PROJECT MANAGER: JAMES R. BURKE

CONTRACT NO. 93772

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAU ROUTE 7779
SECTION 18-00084-00-RS
PROJECT 6E8N(619)
SURFACE TRANSPORTATION RURAL PROGRAM
CASS COUNTY

C-96-073-21

R. 12 W. - 3RD PM

SECTION 18-00084-00-RS BEGINS 102+45.00

0' 1000' .2000' 300 APPROXIMATE GRAPHIC SCALE

R. 12 W.

DESIGN DESIGNATION
FAU 7779
MAJOR COLLECTOR
ADT = 7540
% PV = 86.0
% SU = 6.5
% MU = 7.5
DESIGN SPEED = 45 MPH

GROSS LENGTH = 4165.00 FT. = 0.789 MILE NET LENGTH = 4165.00 FT. = 0.789 MILE

Hutchison Engineering, Inc.

SINCE 1945
PO Box 820
Jacksonville, Illinois 62851
PHONE: (217)245-7464
FAX (217)243-0468

5/12/2021 EXP. 11/3/24

M BO OS2-058271 REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S SEAL

DISTRICT ENGINEER OF CONSTRUCTION

PASSED

DISTRICT ENGINEER OF CONSTRUCTION

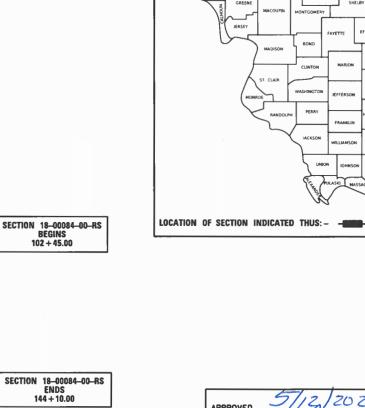
PASSED

DISTRICT ENGINEER OF LOCAL ROADS & STREETS

APPROVED

S/18/202/

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





CASS

ILLINOIS CONTRACT NO. 93772

18-00084-00-RS

GENERAL NOTES

WHEN DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTER OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FROM ALL DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE HMA PAVING.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS IMPROVEMENT.

TRAFFIC CONTROL SIGNS REMOVED MUST BE RESET AT THEIR PERMANENT LOCATIONS IN A WORKMANLIKE MANNER AND VISIBLE TO TRAFFIC ON THE ROADWAY. THESE SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS', LATEST EDITION. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE COST OF THE AGGREGATE SHOULDERS, TYPE B.

ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

WHEREVER IN THESE PLANS REFERENCE IS MADE TO THE "STANDARD SPECIFICATIONS', IT IS UNDERSOOD TO INCLUDE THE "SUPPLEMENTAL SPECIFICATIONS" INCLUDED IN THE PROPOSAL.

THE NOMINAL THICKNESS FOR BINDER AND SURFACE COURSE ARE SHOWN ON THE TYPICAL SECTION OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.

WHERE SECTION OR SUBSECTION STONES OR MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH STONES ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL PROPOSED PAVEMENT WIDTHS ARE MEASURED EDGE TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN ON THE PLANS. INTERSECTION RETURN RADII ARE MEASURED TO THE EDGE OF PAVEMENT.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE A RECORD OF THE EXISTING PAVEMENT MARKING PRIOR TO THE START OF THE MILLING OPERATION SO THAT THE PAVEMENT MARKING CAN BE REPLICATED AFTER PAVING OPERATIONS ARE COMPLETE. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE COST OF THE PAVEMENT MARKING.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN ON THE TABULATION OF REQUIRED STATE STANDARDS SHOWN IN THE PLANS.

HIGHWAY STANDARDS

000001-08	STANDARD	SYMBOLS.	ABBREVIATIONS.	AND PATTERNS

001006 DECIMAL OF AN INCH AND OF A FOOT

406201-01 MAILBOX TURNOUT

701006-05 OFF-RD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE

701011-04 OFF-RD MOVING OPERATIONS 2L, 2W DAY ONLY

701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH

701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

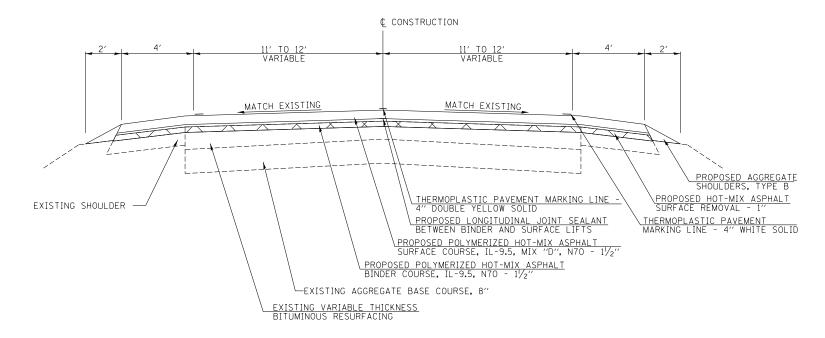
701306-04 LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS > 45 MPH 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY

701311-03 LANE CLOSURE 2L, 2W MOVING OF TRAFFIC CONTROL DEVICES

780001-05 TYPICAL PAVEMENT MARKINGS

781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

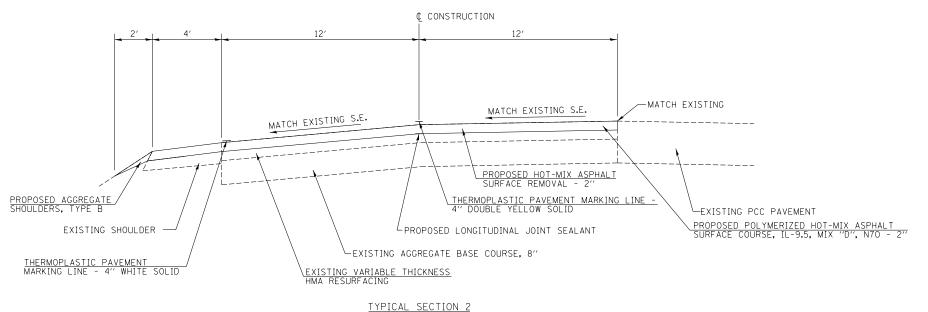
MIXTURE USES	HMA SURFACE CSE	INCIDENTAL HMA SURF.	HMA BINDER COURSE
AC/PG	SBS PG 70-28	PG 64-22	SBS PG 70-28
DESIGN AIR VOIDS	4% @ N70	4% @ N50	4% @ N70
MIX COMPOSITION: (GRADATION MIXTURE)	IL-9 . 5	IL-9.5	IL-9 . 5
FRICTION AGGREGATE	MIX "D"	MIX "D"	N/A



TYPICAL SECTION 1 STA 102+45 TO STA 122+46* STA 128+15** TO STA 144+10

> *TRANSITION FROM TYP 1 TO 2: STA 122+46 TO STA 122+86 (SEE DETAIL)

**TRANSITION FROM TYP 2 TO 1: STA 127+75 TO STA 128+15 (SEE DETAIL)



STA 122+86* TO STA 127+75**

SCALE: N/

USER NAME = BBorgman	DESIGNED -	вмв	REVISED -	
	DRAWN -	СМВ	REVISED -	ĺ
PLOT SCALE = 2.0000 ' / in.	CHECKED -	JRB	REVISED -	ĺ
PLOT DATE = 7/14/2021	DATE -	04/2021	REVISED -	

CH 8 (ARENZVILLE ROAD)	F.A.U RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
GENERAL NOTES, TYPICAL SECTIONS, AND HIGHWAY STANDARDS	7779	18-0008	4-00-RS		CASS	8	2
delicine itores, illione destions, and indition standards					CONTRACT	NO. 93	3772
ALE: N/A SHEET 1 OF 1 SHEETS			ILLINOIS	FED. AI	D PROJECT		

			L	COMBINIT CODE
		•		CASS
				COUNTY
			l L	ROADWAY
CODE			TOTAL	0005
NO.	ITEM	UNIT	QUANTITY	RURAL
10500005		DOLIND	20174	20174
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	10174	10174
40600990	TEMPORARY RAMP	SQ YD	163	163
,000000				
40603208	POLYMERIZED HOT-MIX ASHPALT BINDER COURSE, IL-9.5, N70	TON	1354	1354
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	1438	1438
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	93	93
44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	14139	14139
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1800	1800
48101200	AGGREGATE SHOULDERS, TYPE B	TON	161	161
67100100	MOBILIZATION	L SUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	416	416
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	139	139
. 0 3 0 0 1 3 0	STORY TELEVISION TO THE TOWN	~~ · ·		
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	63	63
7000777		F007	16670	16622
/8000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16629	16629
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1249	1249

CONSTR. CODE

A SPECIALTY ITEMS

USER NAME = CBurke	DESIGNED - BMB	REVISED ~		CH 8 (ARENZVILLE ROAD)	F.A.U RTE.	SECTION	COUNTY	TOTAL SH	IEET
	DRAWN - CMB	REVISED -	STATE OF ILLINOIS		7779	18-00084-00-RS	CASS	8	3
PLOT SCALE = 2.0000 ' / in.	CHECKED - JRB	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			CONTRAC	T NO. 9377	/2
 PLOT DATE ≈ 5/13/2021	DATE - 04/2021	REVISED -		SCALE: N/A SHEET 1 OF 2 SHEETS		ILLINOIS FED.	AID PROJECT		

					CONSTR. CODE
					CASS COUNTY
					ROADWAY
	CODE			TOTAL	0005
	NO.	ITEM	UNIT	QUANTITY	RURAL
Δ	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	77	77
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	77	77
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1

*	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	4165	4165

*SEE SPECIAL PROVISIONS

A SPECIALTY ITEMS

USER NAME = CBurke	DESIGNED		вмв	REVISED	-
	DRAWN	-	СМВ	REVISED	-
PLOT SCALE = 2.0000 ' / in.	CHECKED	-	JRB	REVISED	-
PLOT DATE = 5/13/2021	DATE	-	04/2021	REVISED	-

	C	H 8	(AR	ENZ\	/ILL	E ROAD)	
	sı	IMM	\RY	OF.	QU	ANTITIES	
SHEET	2	OF	2	SHE	ETS		

SCALE: N/A

ENTRANCE SCHEDULE

			40800050
STATION TO STATION		SIDE	INCIDENTAL HOT-MIX ASPHALT SURFACING
			TON
103+32.00	104+88.00	RT	11.3
105+04.00	105+75.00	RT	4.7
107+75.00	108+15.00	LT	2.5
109+07.00	109+84.00	RT	5.0
113+22.00	113+60.00	LT	2.4
116+22.00	116+81.00	RT	3.9
116+43.00	116+85.00	LT	2.6
117+14.00	118+27.00	RT	7.5
119+19.00	119+67.00	RT	3.0
120+78.00	121+17.00	RT	2.6
123+69.00	124+45.00	LT	10.1
128+70.00	129+93.00	LT	9.1
138+20.00	139+28.00	RT	7.3
138+54.00	138+80.00	LT	1.7
140+12.00	140+53.00	LT	1.7
140+13.00	141+00.00	RT	10.2
143+87.00	144+48.00	RT	6.8
TOTAL			92.4
USE			93

REFLECTIVE PAVEMENT MARKER SCHEDULE

TELEGISTE STATEMENT WANTED SELECTED SEL							
STATION TO STATION		78100100	78300200				
		RAISED REFLECTIVE	RAISED REFLECTIVE				
		PAVEMENT MARKER	PAVEMENT MARKER				
		PAVEIVIENT IVIARKER	REMOVAL				
		EACH					
102+45.00	116+04.30	18	18				
116+04.00	134+84.00	47	47				
134+84.00	144+10.00	12	12				
TOTAL		77	77				
USE		77	77				

TEMPORARY RAMP SCHEDULE

			40600990
STATION TO STATION		SIDE	TEMPORARY
		SIDE	RAMP
			SQ YD
102+72.00	102+85.00	LT/RT	40.4
122+86.00	127+75.00	RT	103.4
143+70.00	143+83.00	LT/RT	18.3
TOTAL	162.1		
USE			163

PAVEMENT MARKING SCHEDULE

	FAVEIVENT INFARRING SCHEDOLE								
STATION TO STATION			78000100	7800	0200	78000400			
			THERMOPLASTIC PAVEMENT MARKING						
		CIDE	LETTERS AND SYMBOLS	4"		6"			
		SIDE		SOLID YELLOW	SOLI	SKIP DASH WHITE			
			SQ FT		FOOT				
102+45.00	105+80.00	LT	31.2			215.6	30.0		
102+45.00	144+10.00	LT			4165.0				
102+45.00	144+10.00	CL		8330.0					
102+45.00	127+75.00	RT			2545.3				
122+86.00	125+26.00	RT	31.2			118.4	30.0		
126+33.00	144+10.00	RT			1588.1				
134+25.00	142+80.00	RT				855.0			
TOTAL			62.4	8330.0	8298.4	1189.0	60.0		
USE			63	16629		1249			

PAVEMENT SCHEDULE

		44000153	44000157	40603208	r POLYMERIZED HOT-MIX ASPHALT			40600295	Z0033700
STATION T	O STATION	нот-міх	(ASPHALT REMOVAL	POLYMERIZED HOT-MIX ASPHALT				POLYMERIZED BITUMINOUS MATERIALS	LONGITUDINAL JOINT SEALANT
		1"	2"	1.5"	VARIES	1.5"	2"	(TACK COAT)	
		SQ YD			TON			POUND	FOOT
102+45.00	105+80.00	1581.1		135.6	27.6	119.0		1143.9	335.0
105+80.00	122+46.00	5966.6		584.7		501.2		4027.5	1666.0
122+46.00	122+86.00		145.4		24.4			65.4	40.0
122+86.00	127+75.00		1511.9				169.3	453.6	489.0
127+75.00	128+15.00	•	142.3		23.9			64.0	40.0
128+15.00	144+10.00	6591.0		632.8	18.7	553.0		4418.9	1595.0
TOTAL		14138.8	1799.7	1353.2	94.7	1173.2	169.3	10173.3	4165.0
USE		14139	1800	1354		1438		10174	4165

SHOULDER SCHEDULE

SHOOLDER SCHLOOLE							
			48101200				
			AGGREGATE				
STATION T	O STATION	SIDE	SHOULDERS,				
			TYPE B				
			TON				
102+45.00	103+31.00	RT	2.2				
102+45.00	107+75.00	LT	13.4				
104+88.00	105+04.00	RT	0.4				
105+75.00	109+07.00	RT	8.4				
108+15.00	113+22.00	LT	12.8				
109+84.00	116+22.00	RT	16.1				
113+60.00	116+43.00	LT	7.2				
117+81.00	118+14.00	RT	0.8				
117+85.00	123+69.00	LT	14.8				
121+17.00	122+86.00	RT	4.3				
124+44.00	128+70.00	LT	10.8				
127+75.00	138+20.00	RT	26.4				
129+93.00	138+54.00	LT	21.8				
138+80.00	140+12.00	LT	3.3				
139+28.00	140+13.00	RT	2.2				
140+53.00	144+10.00	RT	9.0				
141+00.00	142+87.00	RT	4.7				
143+48.00	144+10.00	RT	1.6				
TOTAL			160.3				
USE			161				

SHORT TERM PAVEMENT MARKING SCHEDULE

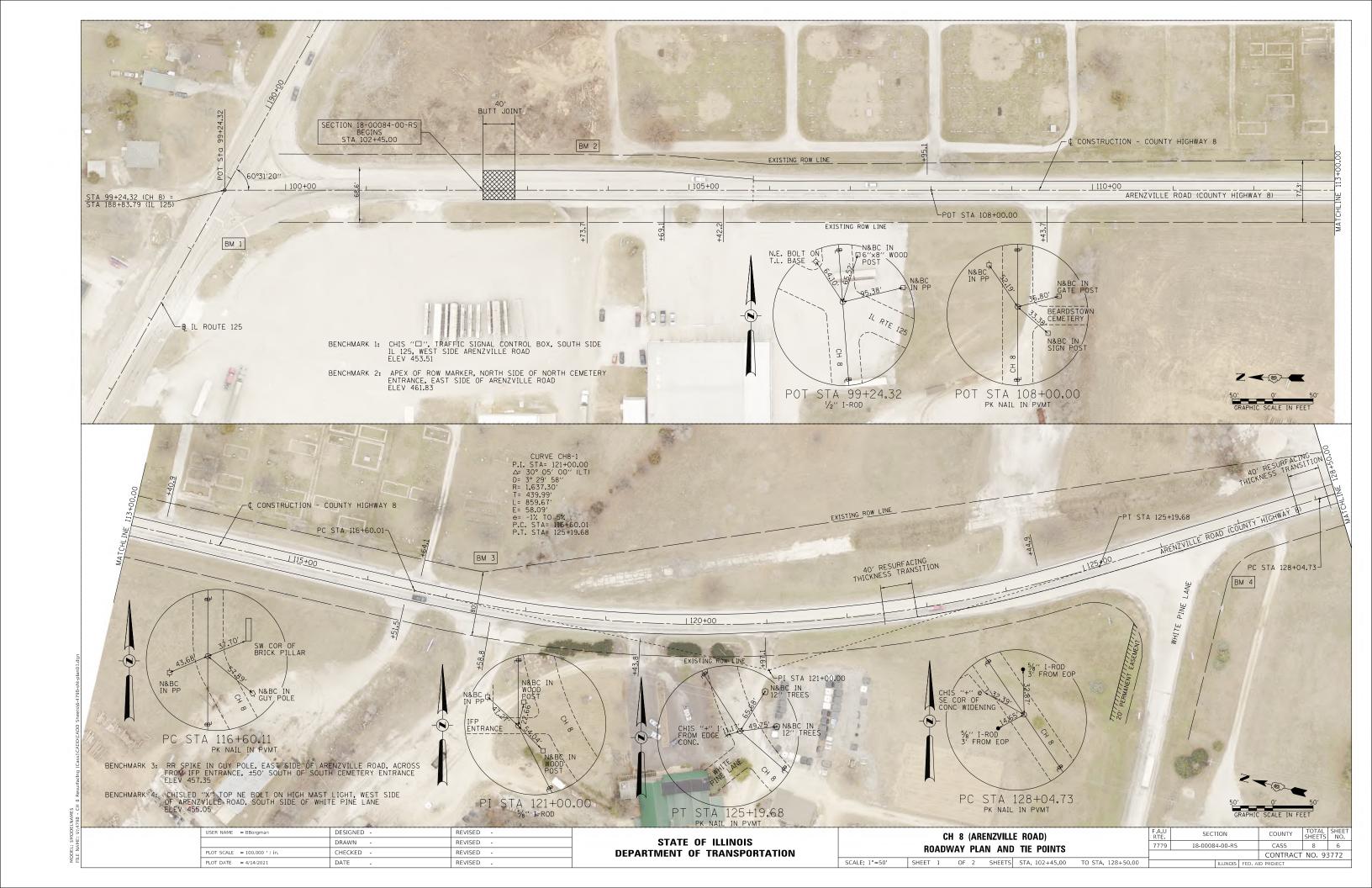
SHORT TERRIT AVEINENT WARRING SCHEDOLE									
		70300100	70300150						
		SHORT TERM	SHORT TERM						
STATION TO STATION	SIDE	PAVEMENT	PAVEMENT						
STATION TO STATION	SIDE		MARKING						
		MARKING	REMOVAL						
		FOOT	SQ FT						
102+45.00 144+10.00	CL	416.0	139.0						
TOTAL		416	139						
USE		416	139						

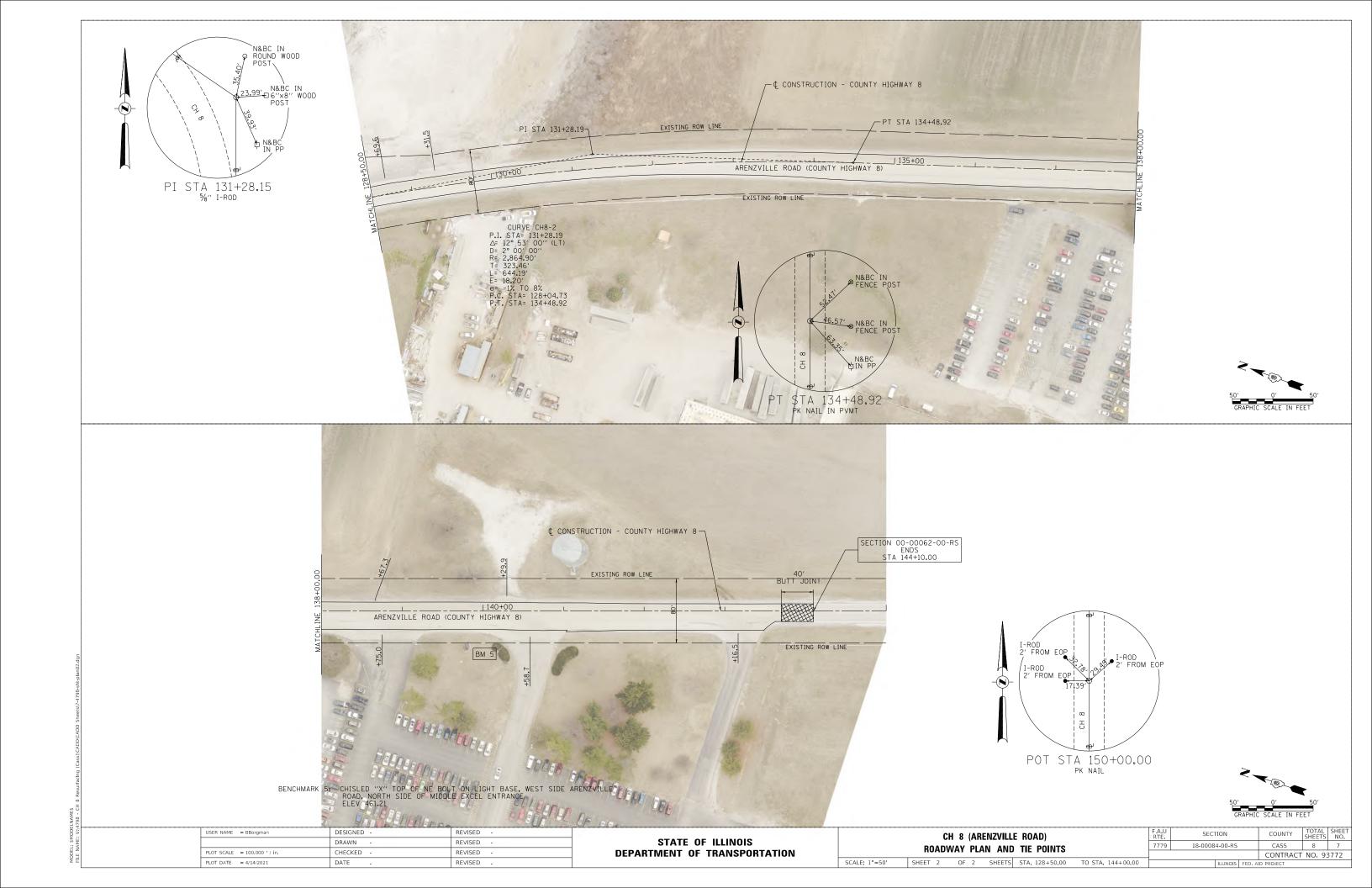
USER NAME = CBurke	DESIGNED -	BMB	REVISED -
	DRAWN -	CMB	REVISED -
PLOT SCALE = 2,0000 ' / In.	CHECKED -	JRB	REVISED -
PLOT DATE = 5/13/2021	DATE -	04/2021	REVISED -

SCALE: N/A

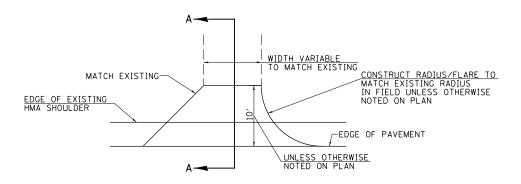
SHEET 1

CH 8 (ARENZVILLE ROAD) SCHEDULES OF QUANTITIES		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		18-00084-00-RS		CASS	8	5
				CONTRACT	NO. 93	3722
OF 1 SHEETS		ILLINOIS	FED. Al	D PROJECT		

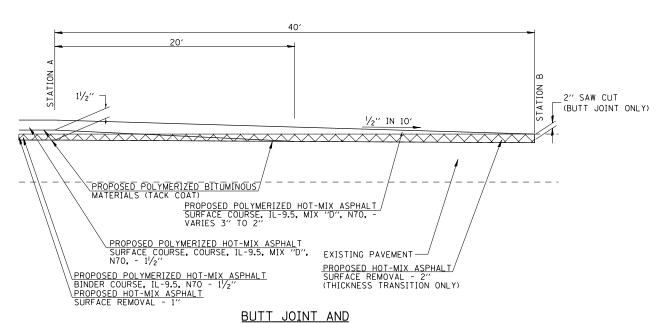




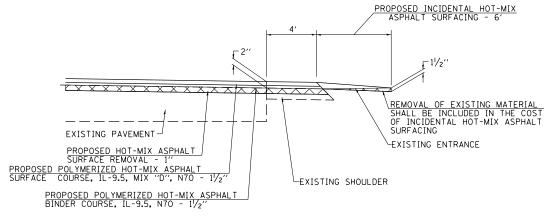
ENTRANCE TAPERS



STATION A	STATION B
102+85	102+45
122+46	122+86
128+15	127+75
143+70	144+10



THICKNESS TRANSITION DETAIL



SECTION A-A EXISTING ENTRANCE

USER NAME = CBurke	DESIGNED -	вмв	REVISED -	
	DRAWN -	СМВ	REVISED -	
PLOT SCALE = 2,0000 ' / In.	CHECKED -	JRB	REVISED -	
PLOT DATE = 5/12/2021	DATE -	04/2021	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE: N/A

CH 8 (ARENZVILLE ROAD) SPECIAL DETAILS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		18-00084-00-RS	CASS	8	8
			CONTRAC	「NO. 93	3772
SHEET 1 OF 1 SHEETS		ILLINOIS FED	AID PROJECT		