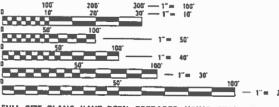


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2



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.

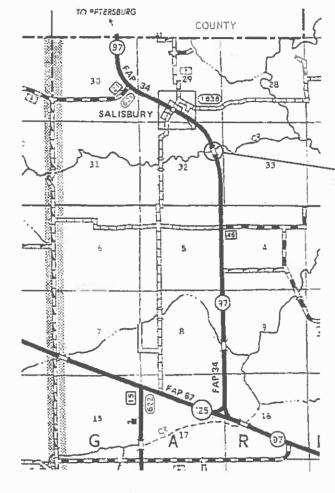
J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY - (217) 785-9290

PROPOSED **HIGHWAY PLANS**

FAP ROUTE 34 (IL 97) SECTION (34) BDR PROJECT STP-J70Y(562) **BRIDGE DECK OVERLAY** SANGAMON COUNTY

C-96-021-20



PROJECT LOCATION SN 084-0067

0.5 MI S SALISBURY

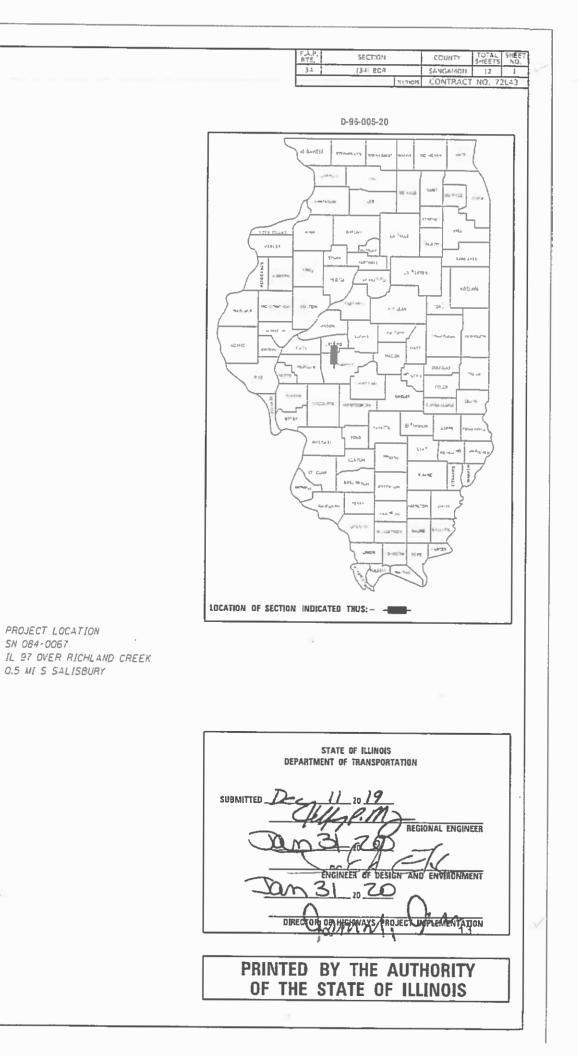
GROSS LENGTH = 409 FT. = 0.08 MILE NET LENGTH = 409 FT. = 0.08 MILE

CONTRACT NO. 72L43

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INDEX OF SHEETS	
 COVER SHEET INDEX, STANDARDS, SIGNATURES. GENERAL NOTES. & SCHEDULES 3-4 SUMMARY OF OUANTITIES TYPICAL SECTIONS & ROADWAY PLAN STAGING PLAN TRAFFIC CONTROL PLAN 8-12 SN 084-0067 BRIDGE PLANS 	

GENERAL NOTES:

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

DEPARTN	STATE OF ILLINOIS MENT OF TRANSPORTATION VISION OF HIGHWAYS DISTRICT 6
examined[ENGINEER OF OPERATIONS
EXAMINED	11-27 20 1.8 Chit Tolel ENGINEER OF PROJECT IMPLEMENTATION
	A Madmin ENGINEER OF PROGRAM DEVELOPMENT

			BIT MATL	HMA SURF
STA	TO	STA	(TACK CT)	COURSE
			(POUND)	(TON)
329+73		331+23	240	55
332+32	-	333+82	240	55
		TOTALS	480	110

	PAVI	EMENT MARK	ING REN	IOVAL SCHEDULE	
STA	то	STA	LOC.	LINE TYPE	PAVT MARK REM (SO FT)
STAGE I					
327+76	-	329+73	Ę	SOLID/SKIP	103
329+98	14	333+58	LT	SOLID	150
333+82	-	335+80	é	SOLID/SKIP	103
STAGE II					
329+98	-	331+23	RT	SOLID	52
332+32	-	333+58	RT	SOL ID	53
				TOTAL	461

MIXTURE USE(S)	HMA SURFACE CSE
AC/PG	PG 64-22
DESIGN AIR VOIDS	4.0% 👁 N50
MIX COMPOSITION	IL 9.5
(GRADATION MIXTURE)	
FRICTION AGGREGATE	MIX "C"
OUALITY MANAGEMENT	OC/OA
SUBLOT SIZE	N/A

			INDEX OF SHEETS, STANDARDS, GENERAL					D A 1	F.A.P.	SECTION	COUNTR	TOTAL SHE
JRAWN -	REVISED -	STATE OF ILLINOIS	INDEX OF SHEETS, STANDARDS, GENERAL NOTES, SIGNATURES, & QUANTITY SCHEDULES						RTE.		COUNTY	SHEETS NO
HECKED	REVISED -			34	(34) BDR	SANGAMON	12 2					
TATE	REVISED										CONTRAC	T NO. 72L43
5	HECKED .	HECKED			HECKED - DEPARTMENT OF TRANSPORTATION NOTES, S	HECKED - REVISED - DEPARTMENT OF TRANSPORTATION NOTES, SIGNATUR	HECKED - REVISED - DEPARTMENT OF TRANSPORTATION NOTES, SIGNATURES, & QUA	HECKED - REVISED - DEPARTMENT OF TRANSPORTATION NOTES, SIGNATURES, & QUANTITY SCHED	HECKED - REVISED - DEPARTMENT OF TRANSPORTATION NOTES, SIGNATURES, & QUANTITY SCHEDULES	HECKED - REVISED - DEPARTMENT OF TRANSPORTATION NOTES, SIGNATURES, & QUANTITY SCHEDULES	HECKED - REVISED - DEPARTMENT OF TRANSPORTATION NOTES, SIGNATURES, & QUANTITY SCHEDULES	HECKED - DEPARTMENT OF TRANSPORTATION NOTES, SIGNATURES, & QUANTITY SCHEDULES

STANDARDS

000001-07 001001-02 001006 701001-02 701006-05 701201-05 701301-04 701321-18 701901-08 704001-08 780001-05 782006-01

REV. - MS

				6-01414-0030 SN 084-0067					6-01414-0030 SN 084-0067
				STP 80/20					STP 80/20
				RURAL-BRIDGE					RURAL-BRIDGE
CODE			TOTAL	0047	CODE			TOTAL	0047
NO.	ITEM	UNIT	QUANTITY	SANGAMON	NO.	ITEM	UNIT	DUANTITY	SANGAMON
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	480	480	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	711	711	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	ЕАСН	1	1
40600990	TEMPORARY RAMP	SQ YD	85	85	70106700	TEMPORARY RUMBLE STRIPS	ЕАСН	6	6
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "C", N50	TON	110	110	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	180	180
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	25	25	70300100	SHORT TERM PAVEMENT MARKING	FOOT	100	100
50102400	CONCRETE REMOVAL	CU YD	3.5	3.5	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	33	33
50300255	CONCRETE SUPERSTRUCTURE	CU YD	4.1	4.1	70400100	TEMPORARY CONCRETE BARRIER	FOOT	400	400
50300260	BRIDGE DECK GROOVING	SQ YD	347	347	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	400	400
50300300	PROTECTIVE COAT	SQ YD	387	387	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	680	680	70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
50800515	BAR SPLICERS	EACH	12	12	* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	1400	1400
52000110	PREFORMED JOINT STRIP SEAL	FOOT	68	68	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
67100100	MOBILIZATION	L SUM	1	1	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	461	461
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1

* SPECIALTY ITEM

USER NAME = dudleybm	DESIGNED -	REVISED -						F.A.P. BTE	SECTION	COUNTY	TOTAL	SHEET		
	DRAWN -	REVISED -	STATE OF ILLINOIS			SUMMA		ANTITIES		34	(34) BDR	SANGAMON	12	3
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC		2L43
PLOT DATE = 12/10/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FE	D. AID PROJECT		

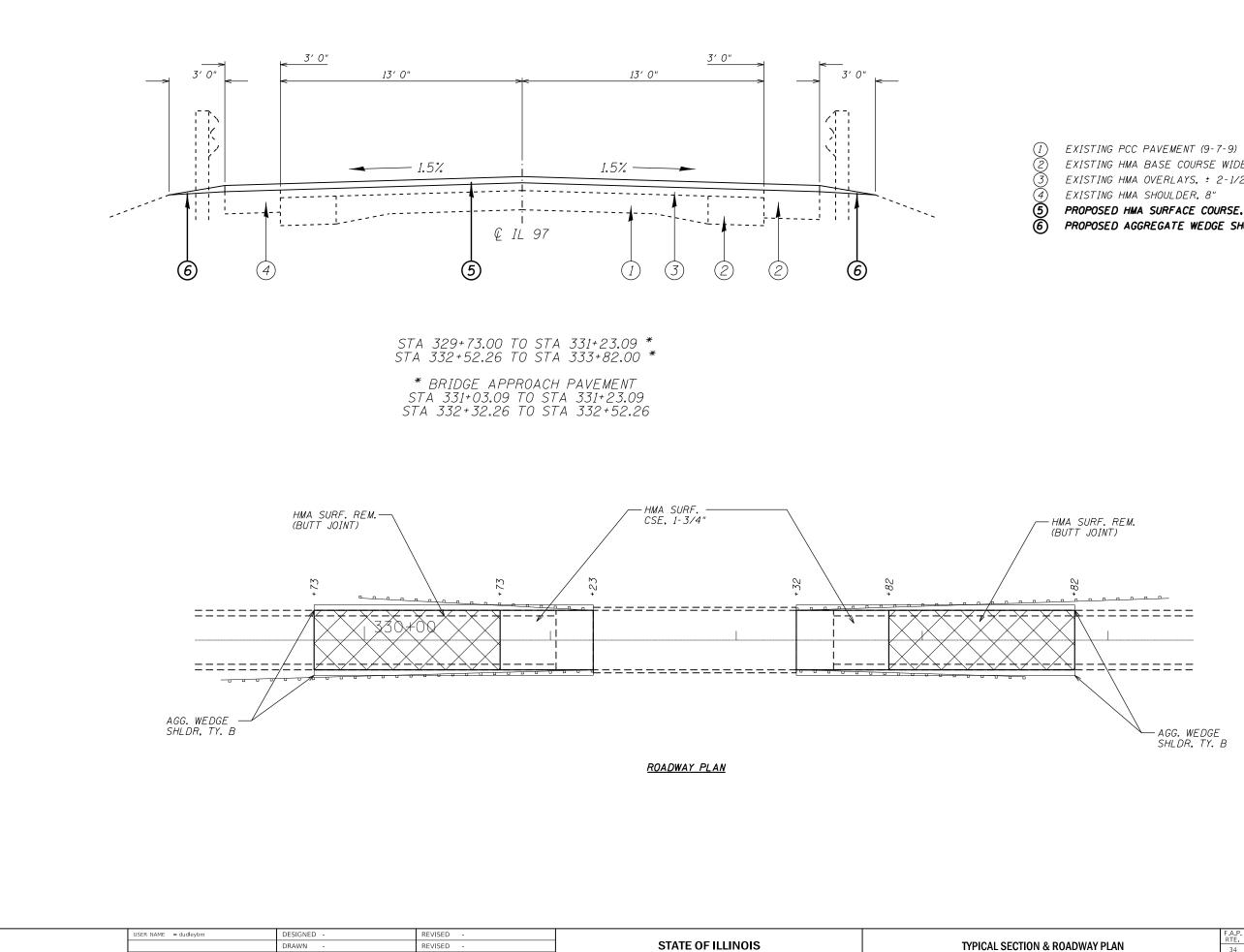
					STP 80/20
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RURAL-BRIDGE 0047 SANGAMON
	Z0012130	BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	370	370
	Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2"	SQ YD	370	370
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5	5
Ø	20076600	TRAINEES	HOUR	500	500
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500

6-01414-0030 SN 084-0067

Ø 0042

USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS					F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.		
	DRAWN -	REVISED -			SUMMARY OF QUANTITIES			34	(34) BDR	SANGAMON	12 4		
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION					CONTRAC	T NO. 72L43			
PLOT DATE = 12/10/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS F	ED. AID PROJECT	

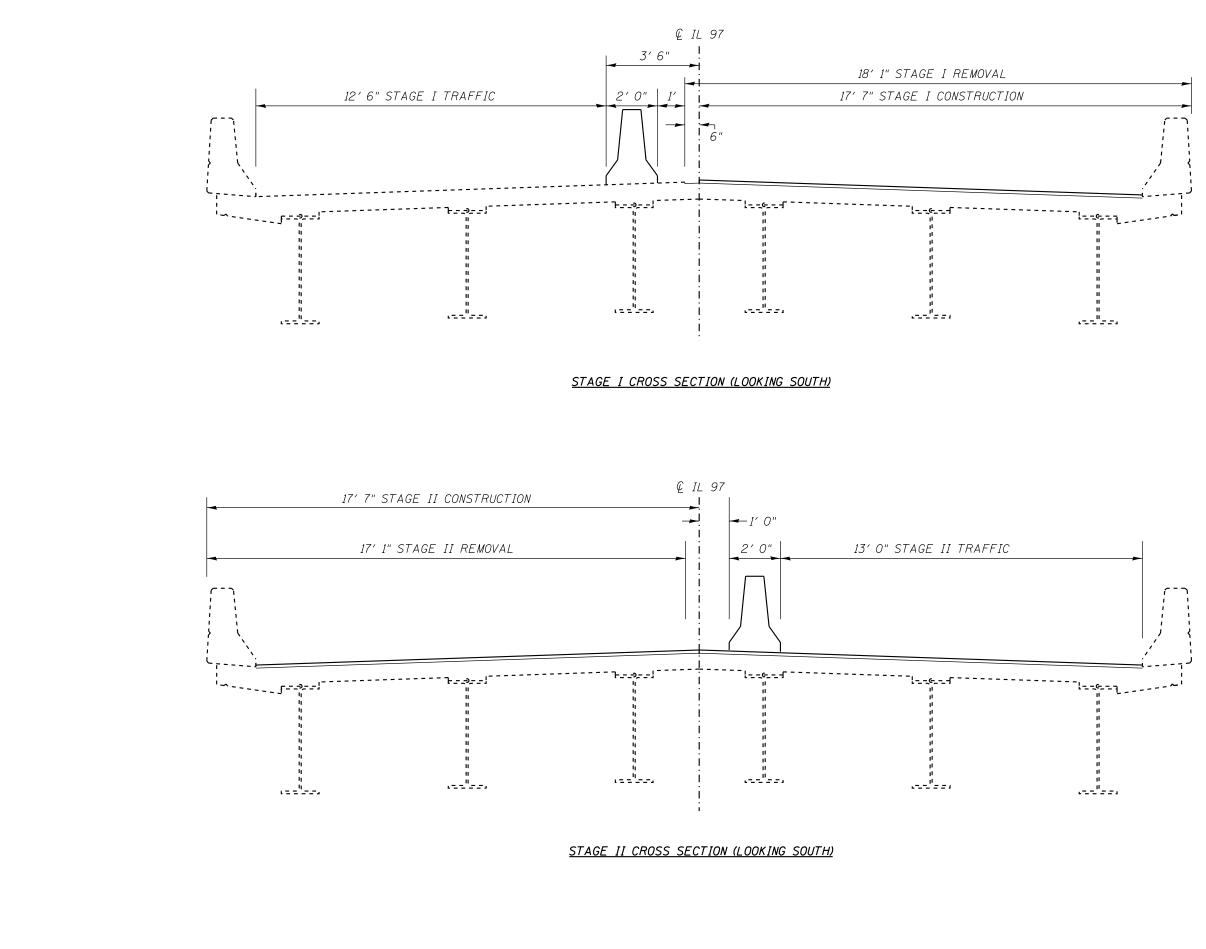
REV. - MS



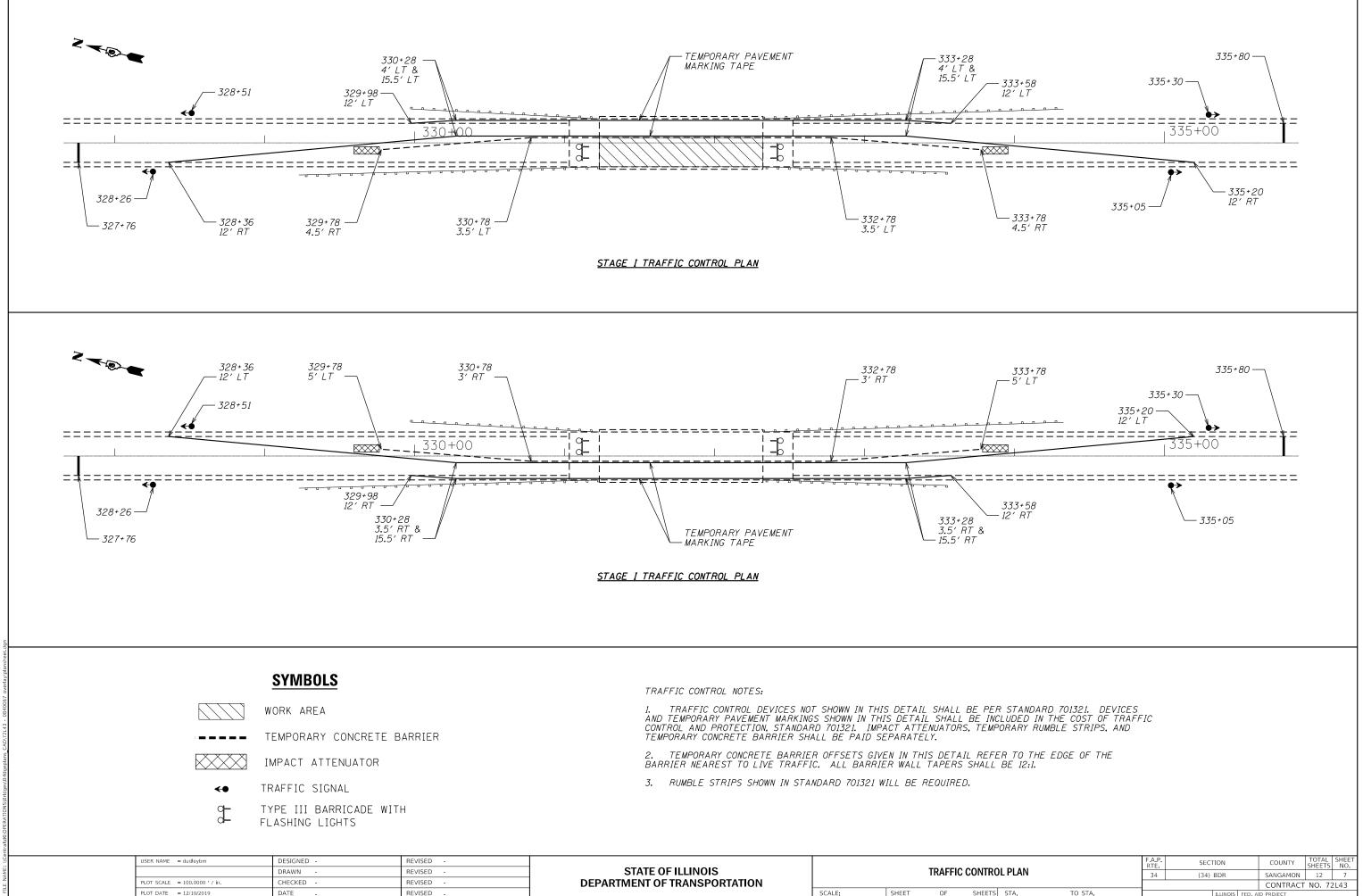
oser white a oddeyon	DRAWN -	REVISED -	STATE OF ILLINOIS		TYPICA	AL SECTI	ON & RO	JA
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1				
PLOT DATE = 12/10/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	

EXISTING HMA BASE COURSE WIDENING, 9" EXISTING HMA OVERLAYS, ± 2-1/2" PROPOSED HMA SURFACE COURSE, 1-3/4" PROPOSED AGGREGATE WEDGE SHOULDER - TYPE B

I BIE. I SHEEISI	HEET NO.
ROADWAY PLAN 34 (34) BDR SANGAMON 12	5
CONTRACT NO. 72L	43
TS STA. TO STA. ILLINOIS FED. AID PROJECT	



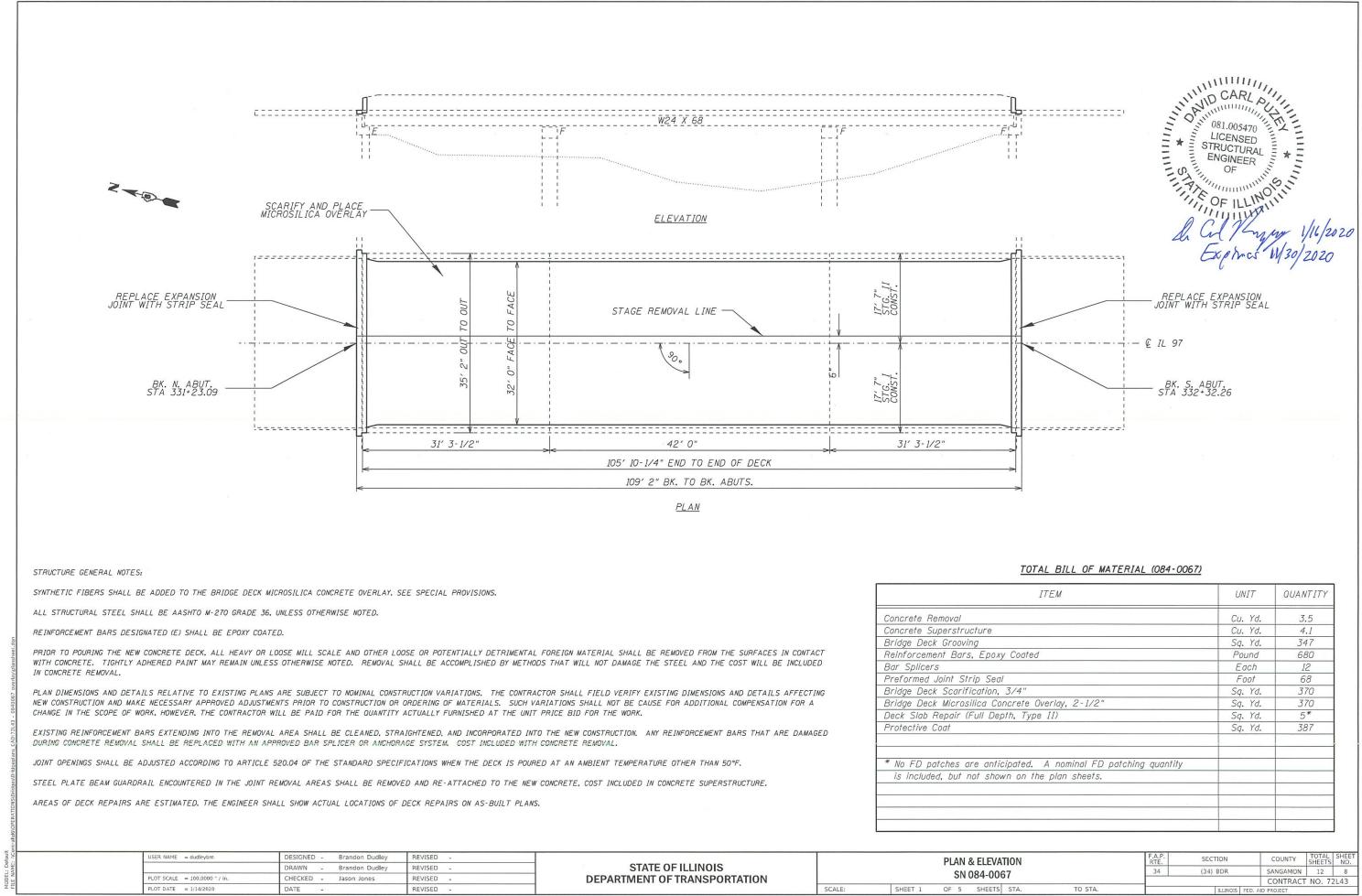
USER NAME = dudleybm	DESIGNED -	REVISED -						F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.		
	DRAWN -	REVISED -	STATE OF ILLINOIS	TRAFFIC STAGING PLAN			34	(34) BDR	SANGAMON	12 6			
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	NO. 72L43			
PLOT DATE = 12/10/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FEI	D. AID PROJECT	



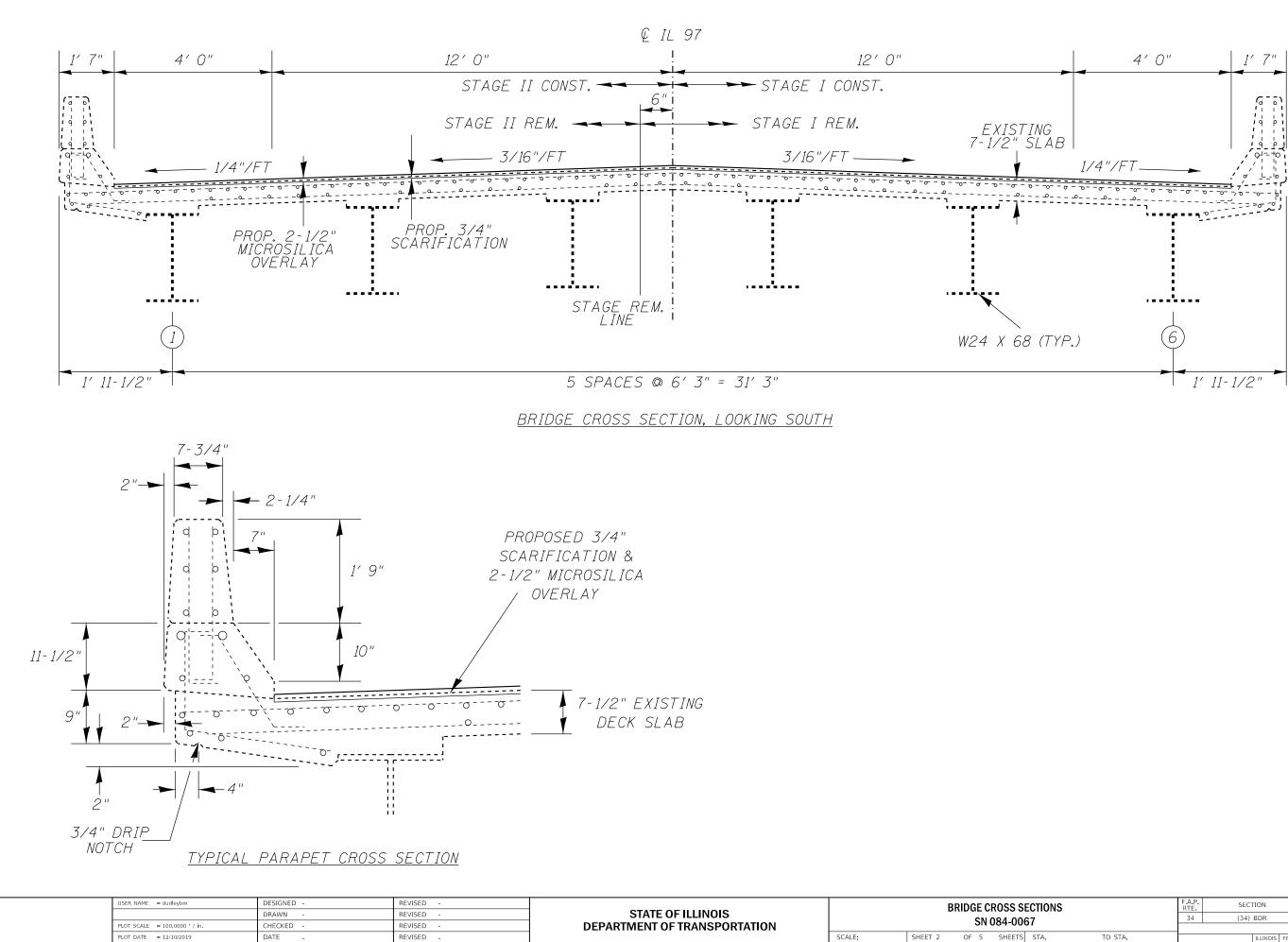
NEVIDED -				INALLIC	CONT
REVISED -	DEPARTMENT OF TRANSPORTATION				
REVISED -		SCALE:	SHEET	OF	SHEE

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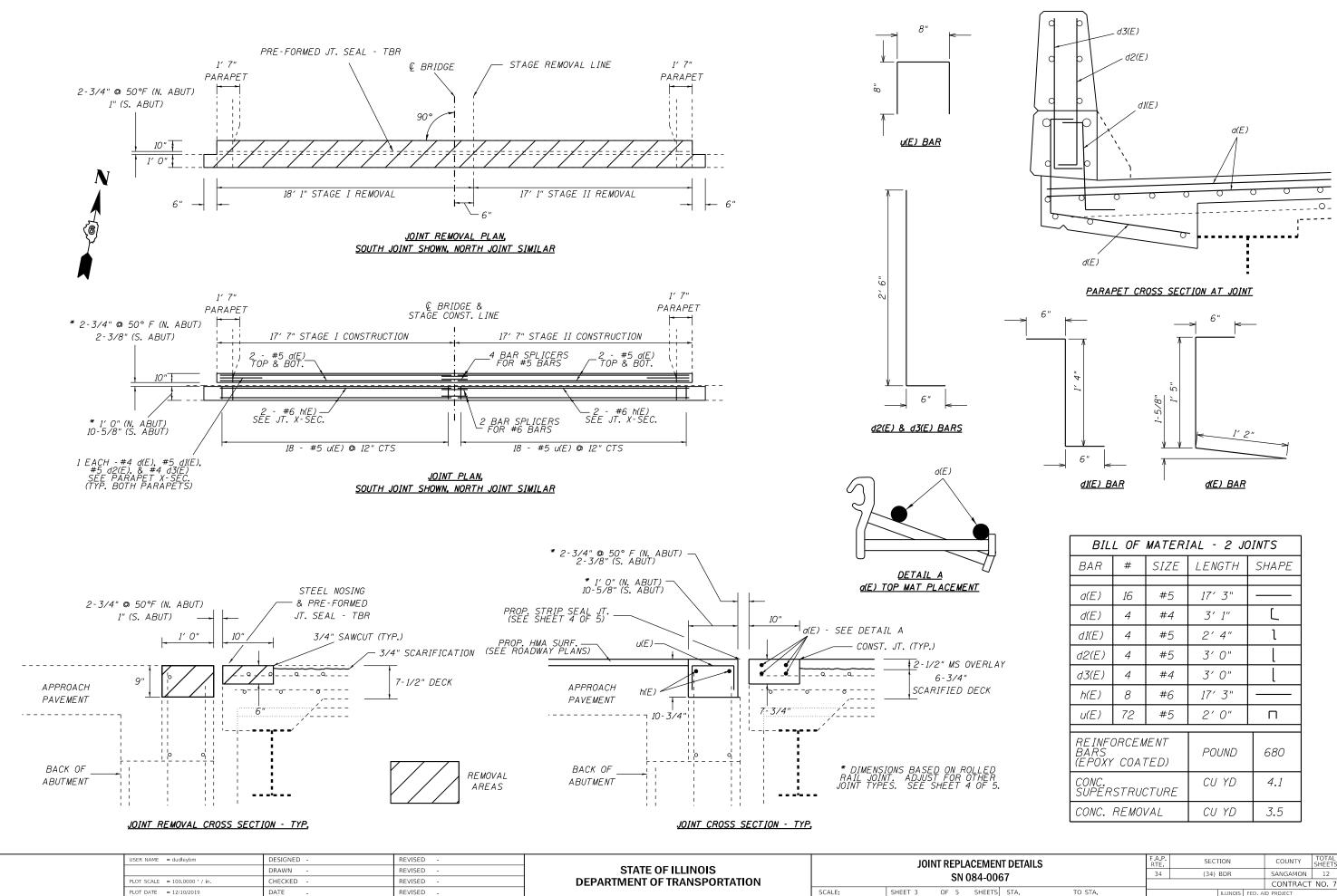
DATE



Crete Overlay, 2-1/2" Sq. Yd. 370 th, Type II) Sq. Yd. 5* Sq. Yd. 387 ipated. A nominal FD patching quantity	ITEM			UNIT	QL	JAN	TITY	
Sq. Yd. 347 Coated Pound 680 Each 12 Foot 68 3/4" Sq. Yd. 370 crete Overlay, 2-1/2" Sq. Yd. 370 th, Type II) Sq. Yd. 5* Sq. Yd. 387 ipated. A nominal FD patching quantity Image: State of the state of t				Cu. Ya	1.	3.	5	
Coated Pound 680 Each 12 Foot 68 3/4" Sq. Yd. 370 screte Overlay, 2-1/2" Sq. Yd. 370 th, Type II) Sq. Yd. 5* Sq. Yd. 387 ipated. A nominal FD patching quantity				Cu. Yo	1.	4.	.1	1
Each 12 Foot 68 3/4" Sq. Yd. 370 vcrete Overlay, 2-1/2" Sq. Yd. 370 th, Type II) Sq. Yd. 5* Sq. Yd. 58 387 ipated. A nominal FD patching quantity				Sq. Yo	1.	34	17	1
Foot 68 3/4" Sq. Yd. 370 crete Overlay, 2-1/2" Sq. Yd. 370 th, Type II) Sq. Yd. 5* Sq. Yd. 58 Sq. Yd. ipated. A nominal FD patching quantity Image: section sheets. Image: section sheets. ION FAP. RTE. SECTION COUNTY SHEETS TOTAL SHEETS	Coated			Pound	1	68	30	1
3/4" Sq. Yd. 370 ccrete Overlay, 2-1/2" Sq. Yd. 370 th, Type II) Sq. Yd. 5* Sq. Yd. 387 ipated. A nominal FD patching quantity Image: section sector secto				Each		12	2	1
ION FAP. RTE. SECTION COUNTY TOTAL SHEETS				Foot		6	8	1
th, Type II) Sq. Yd. 5* Sq. Yd. 387 ipated. A nominal FD patching quantity	3/4"			Sq. Yo	1.	37	70	1
ION FAP. Sq. Yd. 387	crete Overlay, 2-1/2"			Sq. Yo	1.	37	20	1
ION	th, Type II)			Sq. Yo	1.	5	*	1
ION				Sq. Yo	1.	38	87	1
ION					-			ł
ION F.A.P. SECTION COUNTY TOTAL SHEETS	ipated. A nominal FD patching	g quantity	/					1
ION RTE. SECTION COUNT SHEETS	n on the plan sheets.							
ION RTE. SECTION COUNT SHEETS								
ION RTE. SECTION COUNT SHEETS								1
ION RTE. SECTION COUNT SHEETS								J
	10N	F.A.P. RTE.	SECT	ION	COUNT	Y	TOTAL SHEETS	SHEE NO.
	7		(34)	3DR	SANGAM	ON		8

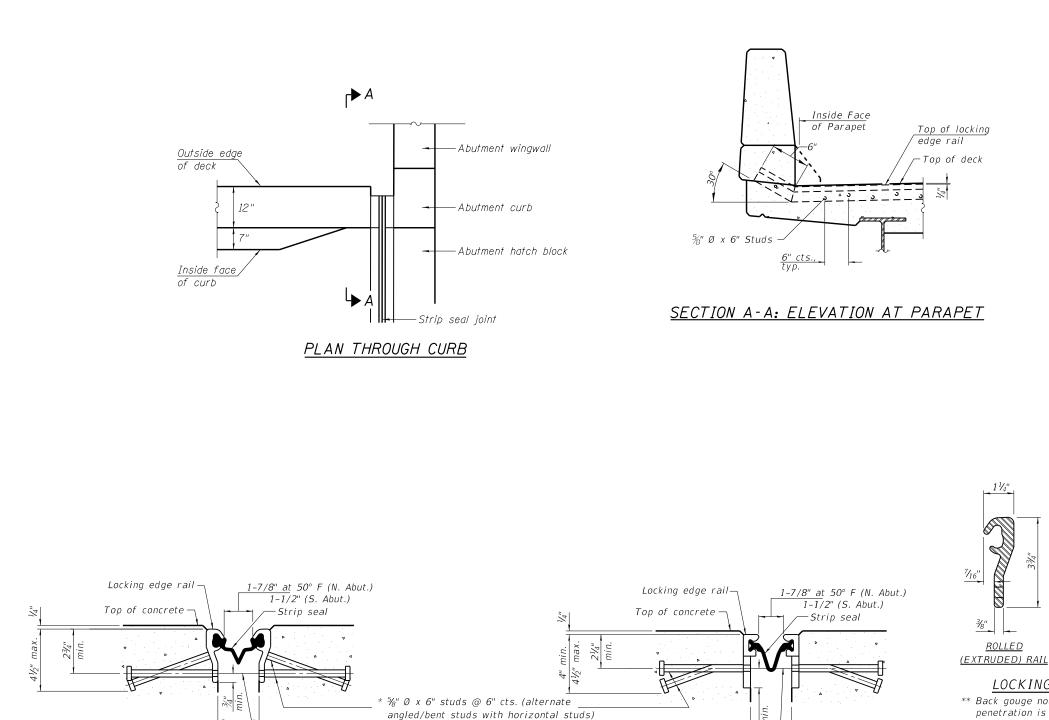


SECTIONS 067		F.A.P. RTE	F.A.P. RTE		COUNTY	TOTAL SHEETS	SHEET NO.		
		34 (34) BDR				SANGAMON	12	9	
						CONTRACT	NO. 72	2L43	
TS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



BIL	L OF	MATER	IAL - 2 JO	DINTS	
BAR	#	SIZE	LENGTH	SHAPE	
a(E)	16	#5	17′3″		
d(E)	4	#4	3′ 1″	Ĺ	
d1(E)	4	#5	2′4″	l	
d2(E)	4	#5	3′0"	L	
d3(E)	4	#4	3′0"	l	
h(E)	8	#6	17′ 3″		
u(E)	72	#5	2′0"	П	
BARS	REINFORCEMENT BARS (EPOXY COATED)		POUND	680	
CONC. SUPER	CONC. SUPERSTRUCTURE		CU YD	4.1	
CONC.	REMO	/AL	CU YD	3.5	

SHEE NO. COUNTY SHEETS NO. SANGAMON 12 10 CONTRACT NO. 72L43 TO STA.



LOCKING EDGE RAILS ** Back gouge not required if complete joint penetration is verified by mock-up.

3-3/8" at 50° F (N. Abut.)

3" (S. Abut.)

for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed SHOWING ROLLED RAIL JOINT off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

 $\frac{3}{6}$ " ϕ threaded rods in $\frac{7}{16}$ " ϕ holes at ± 4 '-0" cts.

EJ-SS (MODIFIED) 8-11-17

2–3/4" at 50° F (N. Abut.)

2-3/8" (S. Abut.)

USER NAME = dudleybm	DESIGNED -	REVISED -			PREFORMED JOINT STRIP SEAL STRUCTURE NO. 084-0067		SECTION	COUNTY TOTAL SHEET SHEETS NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS				(34) BDR	SANGAMON 12 11
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				V- 7	CONTRACT NO. 72L43
PLOT DATE = 12/10/2019	DATE -	REVISED -		SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.			ILLINOIS FED.	AID PROJECT

SHOWING WELDED RAIL JOINT

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4¹/₂" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

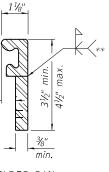
The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{6}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



)mit weld at seal opening Å

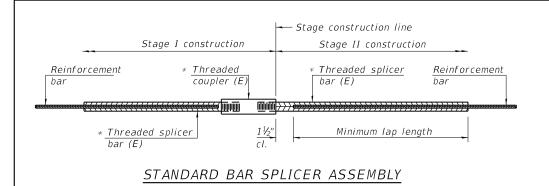
LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	68

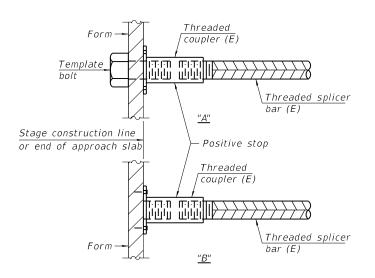
WELDED RAIL



Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

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

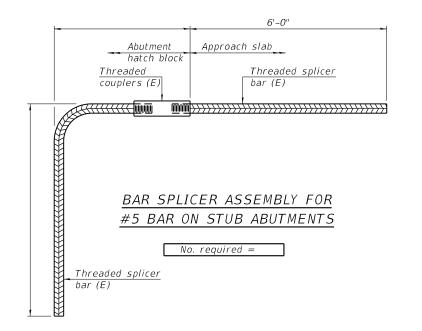
Location	Bar	No. assemblies	Minimum
LUCATION	size	required	lap length
Abuts. (deck side)	#5	8	3′ 0″
Abuts. (appr. side)	#6	4	4′ O"



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

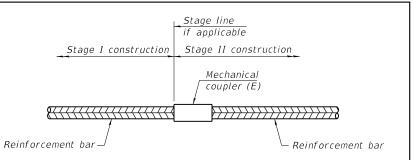
(E) : Indicates epoxy coating.



BSD-	1
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2-17-2017

	USER NAME = dudleybm	DESIGNED -	REVISED -		BAB SPL	CER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.P.	SECTION	COUNTY TOTA	AL SHEET
IAME		DRAWN -	REVISED -	STATE OF ILLINOIS	DAN SEL	SN 084-0067	34	(34) BDR	SANGAMON 12	2 12
۵ ۲	PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		311 084-0007			CONTRACT NO.	72L43
	PLOT DATE = 12/10/2019	DATE -	REVISED -		SCALE:	SHEET 5 OF 5 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	



STANDARD MECHANICAL SPLICER

l a a a t i a u	Bar	No. assemblies
Location	size	required

<u>NOTES</u>

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.