# 03-06-2015 LETTING ITEM 118

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

014-0066 ADT: 11,600(2015) 14,200(2035) SU: 2.9% MU: 30.7% 014-0067 ADT: 11,500(2015) 14,100(2035) SU: 3.1% MU: 33.6%

FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

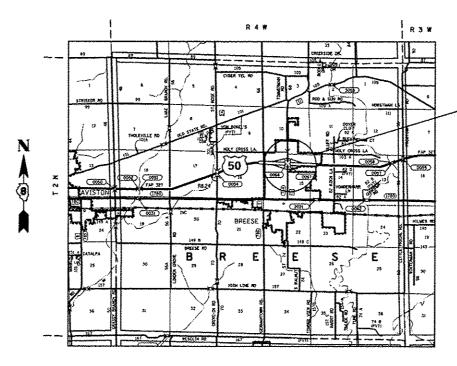
**DIVISION OF HIGHWAYS** 

# PROPOSED HIGHWAY PLANS

FAP ROUTE 327 (US 50) SECTION 14-14HB-2

BRIDGE REHAB CLINTON COUNTY

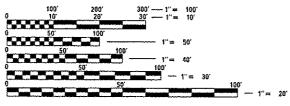
C-98-054-14



TWO US 50 BRIDGES OVER CH 11 / WALNUT ST. SN 014-0066 (EB) STA. 3085+00.46 SN 014-0067 (WB) STA. 3084+96.68 155-97 EK TO BK OF ABUTMENTS

GROSS LENGTH = N/A

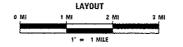
NET LENGTH = N/A



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: MICHAEL PRITCHETT (618) 346-3180 DESIGNER: B0 WEDMORE (618) 346-3206



 SN
 014-0066
 LATITUDE:
 38.62176323
 LONGITUDE:
 89.52572501

 SN
 014-0057
 LATITUDE:
 38.62177037
 LONGITUDE:
 89.52588119

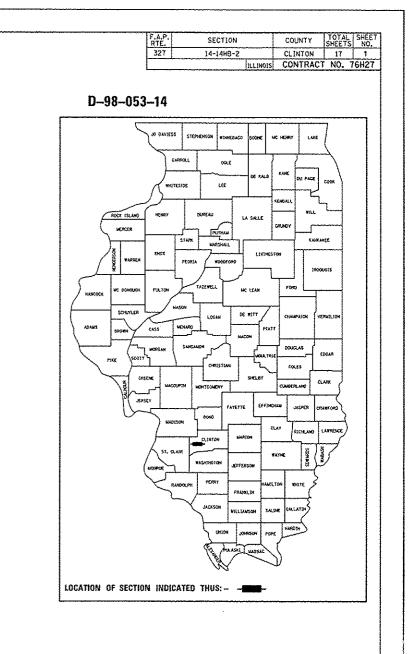
# CONTRACT NO. 76H27

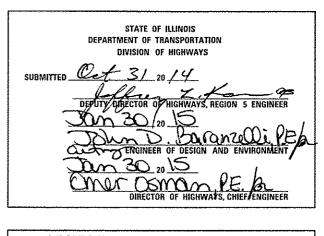
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# PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

### GENERAL NOTES

### INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, INDEX OF SHEETS, STANDARDS
- 3-5 SUMMARY OF QUANTITIES
- 6 SCHEDULES OF QUANTITIES
- 7 TYPICAL ROADWAY SECTION
- 8 DETAILS
- 9-17 BRIDGE DETAILS

ST	T /	۱Þ	V	),	AF	RC	15	

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701423-08	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS 2 45 MPH TO 55 MPH (SEE GENERAL NOTE 5)
701426-07	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS > 45MPH
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

### MIXTURE REQUIREMENTS

ROUTE	FAP 327 (US 50)
SECTION	14-14HB-2
COUNTY	CLINTON
CONTRACT	76H27

BRIDGE REHAB - CONTRACT MAINTENANCE - US 50 OVER CH 11, WALNUT STREET AT BREESE - SN 014-006 & 0067. DESCRIPTION:

ADT (CONSTRUCTION YR):	3300	
MU7.:	9.2	
SU%:	5.4	
20 YR. ESAL'S:	1.85	

M1XTURE USE	SURFACE	
AC/PG	PG 64-22	
RAP % (MAX)	SEE SPEC.	
DESIGN AIR VOIDS	4.0% @ Ndes=70	
MIX COMPOSITION		
(GRADATION MIXTURE)	IL 9.5	
FRICTION AGG	MIXTURE "D"	
QUALITY MGMT PROGRAM	QC/ 0A	

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

FILE NAME =	USER NAME : usdmorajb	DESIGNED -	REVISED -	STATE OF ILLINOIS	INDEX (	OF SHEETS, I	LIST OF	STAND/	ARD
as\p=_work\p+;dat\+=dmar=jb\d0302748\d8	76h27-sht-plandgn PLOT SCALE # 100.0000 '/ in	DRAWN	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	- CON 5:	SHEET	05	SHEETS	ST
	PLOT DATE = 10/28/2014	DATE -	REVISED -		SCALE:	1 300201			

- 1. NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - \* AMEREN ILLINOIS
  - \* AT&T ILLINOIS
  - ✤ CITY OF BREESE

  - \* ENABLE-MISSISSIPPI RIVER TRANSMISSION LLC
- 2.
- 3.
- 4. PAID FOR SEPARATELY.
- 5. RAMPS EB & WB AS DIRECTED BY THE ENGINEER.
- 6. OF MATERIALS.
- 7. CONCRETE SEALER.
- 8. TO THE EXISTING SHOULDERS. LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.
- 9. TEMPORARY CONCRETE BARRIER.

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

CHARTER COMMUNICATIONS, INC.
 CLINTON COUNTY ELECTRIC COOPERATIVE, INC.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE PROPOSED PERMANENT PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.

ANY MISCELLANEOUS EARTHWORK, SEEDING OR NUTRIENTS REQUIRED TO COMPLETE THE PROJECT SHALL BE DONE ACCORDING TO SECTION 250 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND NOT

THE "L" DIMENSION FOR THE INITIAL TAPER IN HIGHWAY STANDARD 701423 SHALL BE SHORTENED TO START AT THE PAINTED GORE FOR THE EXIT

THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATLONING, 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

PAVEMENT MARKING SHALL BE TEMPORARILY COVERED PRIOR TO PAVEMENT MARKING SHALL BE TEMPORARILY COVERED PRIOR TO APPLICATION OF THE DECK SURFACE TREATMENT, TO PREVENT THE MATERIAL FROM BEING APPLIED TO THE MARKINGS AND TO PROTECT THE REFLECTIVE PROPERTIES OF THE MARKINGS. THE TEMPORARY COVERING MATERIAL USED SHALL BE SUCH THAT IT WILL NOT AFFECT THE MARKING'S REFLECTIVITY WHEN REMOVED AFTER APPLICATION OF THE DECK SURFACE TREATMENT AND PRIOR TO OPENING TO TRAFFIC. COST IS INCLUDED WITH THE BRIDGE DECK CONCRETE SEALER

A QUANTITY OF 34 TON OF AGGREGATE WEDGE SHOULDER, TYPE B HAS BEEN ADDED TO THE PLANS IN ORDER TO REMOVE ANY DROP-OFF AREAS ADJACENT

A QUANTITY OF 824 FEET OF TEMPORARY PAVEMENT MARKING LINE 6" WHITE HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE

10. REMOVAL OF THE TEMPORARY PAVEMENT MARKING SHOWN ON THE HIGHWAY STANDARDS WILL BE INCLUDED IN THE COST OF HIGHWAY STANDARD 701423.

		F.A.P.	SECTION	COUNTY	SHEETS	SHEET NO.	
RDS 8	& GENERAL NOTES	327	14-14H8-2	CLINTON	17	2	
				CONTRACT	NO. 7	6H27	l
STA,	TO STA.		ILLINDIS FED. A	D PROJECT			1

				***	CONSTRUC	TION CODE	
				100% STATE			
					BRIDGE	BRIDGE	
	CODE			TOTAL	0014	0014 014-0067	
	NO.	ITEM	UNIT	QUANTITY	014-0066	014-0081	
						240	
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	480	240	240	
	40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL	- BUTT JOINT SQ YD	888	444	444	
		······································					
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N	170 TON	234	117	117	
	44200535	CLASS A PATCHES, TYPE IV. 8 INCH	SO YD	54	54		
	44213000	PATCHING REINFORCEMENT	SO YD	54	54		
	44213200	SAW CUTS	FOOT	312	312		
			EACH	36	36		
	44213204	TIE BARS 3/4"					
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	34	17	17	
	50102400	CONCRETE REMOVAL	CU YD	17	8.5	8.5	
				10.0		9.4	
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	18.8	9.4	J. 7	
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2240	1120	1120	
	50800515	BAR SPLICERS	EACH	44	22	22	
				· · · · · · · · · · · · · · · · · · ·	·		
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	172	86	86	
	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	1358	679	679	
							F.A.P. SECTION COUNTY TOTAL SHEETS
USER NAME = wedmorejb >==#dot/vedmorejb/dR382748/d876h27=eht-plen.dgn PLOT SCALE = 168.8908 /	DRAWN -	REVISED - REVISED - REVISED - DEPA	STATE OF ILLINOIS ARTMENT OF TRANSPORTATION	****		OF QUANTITIES	F.A.P. SECTION COUNTY TOTAL RTE. 327 14-14HB-2 CLINTON 17 CONTRACT NO. 76 STA. INLINOIS FED. AD PROJECT

		· · · · · · · · · · · · · · · · · · ·					
				٢	00107010		
					CUNSTRUC	TION CODE	
	ſ			100% STATE	BRIDGE	BRIDGE	
	CODE			TOTAL	0014	0014	
	NO.	ITEM	UNIT	QUANTITY	014-0066	014-0067	
	60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2	1	1	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	2	2	
					-		
	67100100	MOBILIZATION	LSUM	1	0,5	0.5	
	70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	2	3	1	
					·····		
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	824	412	412	
					- 1 4		
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1998	999	999	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	900	450	450	
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	900	450	450	
		BLOOKE FEW DARF CONCRETE DARFER		300	400	450	
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1	
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	ł	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5994	2997	2997	
*					C 7 7 1		
			**************************************				
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6	3	3	
						*****	
*	78100300	REPLACEMENT REFLECTOR	EACH	46	23	23	
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	34	17	+ 7	
		SUBJURGE WERELOUDIE A	EACH	24	17	17	
121	L						
DESIGN		REVISED -			<u> </u>	· · · · · · · · · · · · · · · · · · ·	F.A.P. SECTION
DRAWN CHECKI		REVISED - STATE OF ILLINOIS REVISED - DEPARTMENT OF TRANSPORTA	TION		SUMMARY OF	QUANTITIES	ATE. 3501104 327 14-14H8-2
DATE	-	REVISED -		SCALE:	SHEET OF SHEE	TS STA. TO STA.	ILLINOIS I

FILE NAME =

282561/de=ombev/\$66240/\$002

- 연구 영화 1 문제

				CONSTRUC	TION CODE
			100% STATE		
				BRIDGE	BRIDGE
CODE			TOTAL	0014	0014
NO.	ITEM	UNIT	QUANTITY	014-0066	014-0067
78200530	BARRIER WALL MARKERS, TYPE C	EACH	112	56	56
78300100	PAVEMENT MARKING REMOVAL	SQ FT	5994	2997	2997
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	52	26	26
 X5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	2454	1227	1227
Z0015802	PLUG EXISTING DECK DRAINS	EACH	8	4	4
20016200	DECK SLAB REPAIR (PARTIAL)	SO YD	20	10	10

### \* SPECIALTY ITEM

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or\px_work\px2dot\v#dmor=_\$\dB362748\d	76h27-sht-plandgn	DRAWN -	REVISED -	STATE OF ILLINOIS		\$	UMMARY	y of Qui	AN
	PLOT SCALE + 100.0008 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					
	PLOT DATE + 10/28/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	<u>S</u> T

ITITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
ITITIES		327 .	14-14H8-2	CLINTON	17	5
				CONTRACT	NO. 7	6H27
TA,	TO STA.		ILL INDIS FEE	AND PROJECT		]

				TRAFFIC	CONTROL	_ SCHEDI	JLE					
BRIDGE LOCATION	STRUCTURE NUMBER	CONSTRUCTION STAGE	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	GUARDRAIL MARKERS, TYPE A		BARRIER WALL MARKERS, TYPE C		IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECT IVE), TEST	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECT IVE), TEST	PAVEMEN	ORARY T MARKIN 'E 4''
					CRYSTAL	AMBER	CRYSTAL	AMBER	LEVEL 3	LEVEL 3	WHITE	YELLOW
			FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT
EB US 50 OVER CH 11		1	450		6		16	12	1		2068	1244
	SN 014-0066	2		450		11	12	16		1	2068	1244
WB US 50 OVER CH 11		1	450		6		16	12	1		2068	1244
WE US SU UVER CH II	SN 014-0067	2		450		11	12	16		1	2068	1244
	SUBTOTAL		900	900	12	22	56	56	2	2	8272	4976
	TOTAL		900	900	3	4	11	2	2	2	132	248

1. THIS ITEM IS INCLUDED IN THE COST FOR THE STANDARD 701423.

			LOUNI ACINO U	NT ONLING O ONEL	,022			
STATION	ROADWAY WIDTH	HMA SURFACE COURSE MIX ''D'', N7O	PCC SURFACE REMOVAL - BUTT JOINT	BITUMINOUS MATERIAL (PRIME COAT)	CLASS A PATCHES, TYPE IV, 8 INCH	SAW CUTS	PATCHING REINFORCEMENT	TIE BARS 3/4"
	1 F00T	2 TON	SQ YD	POUND	SQ YD	FOOT	SQ YD	EACH
SN 014-0066 - EB								
3083+71.34 TO 3084+21.34	40	25	222	100				
3085+77.09 TO 3086+47.09	40	35	222	140				
3085+77.09 TO 3085+97.09	24				54	312	54	36
SUB TOTAL SN 014-0066		60	444	240	54	312	54	36
SN 014-0067 - WB								
3083+67.55 TO 3084+17.55	40	25	222	100				
3085+73.31 TO 3086+43.31	40	35	222	140				
SUB TOTAL SN 014-0067		60	444	240	0	0	0	0
TOTAL		120	888	480	54	312	54	36

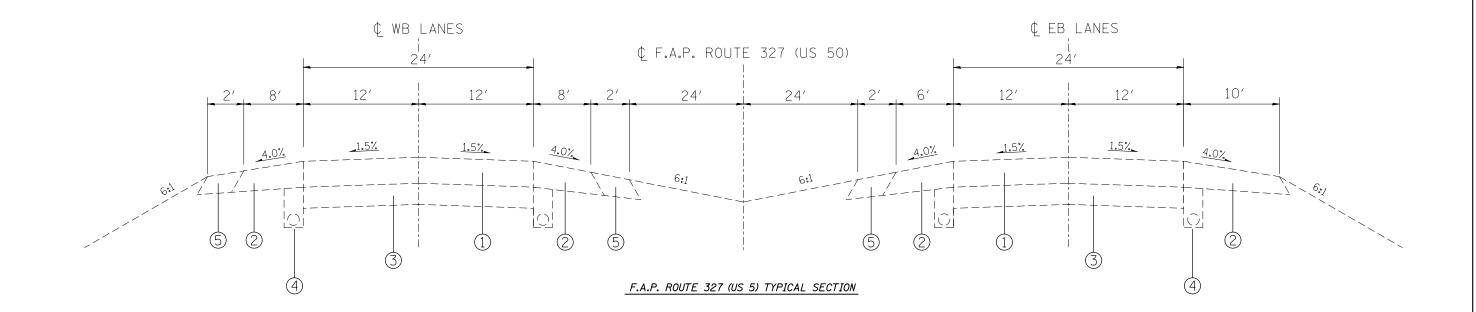
ROADWAY WIDTH OF 40' INCLUDES SHOULDERS
 HMA SURFACE IS FOR BUTT JOINT AREAS AND EASTERN 20' EXTENSION TO AVOID THE INLETS ONLY. ADDITIONAL HMA SURFACE CAN BE FOUND ON SHEET 7 FOR THE BRIDGE DECK.

					PAVEME	NT MARKING SO	CHEDULE		7		
	S	TATIC	)N	LANE	4" WHITE SKIP DASH	4" YELLOW EDGELINE	4" WHITE EDGELINE	PAVEMENT MARKING REMOVAL			
				EB/WB	FOOT	FOOT	FOOT	FOOT	1		
	SN (	014-0	066		·			·	1		
۲	078+83.84	ΤO	3091+27.09	EB		1243	1243	2487	EDGELINES		
3	065+58.84	ΤO	3086+27.09	EB	510			510	CENTERLINE	ES	
	SUB-TOTA	L SN	014-0066			2997		2997	1		
	SN (	014-0	067		•			•	]		
7	078+67.55	ΤO	3091+10.81	WB		1243	1243	2487	EDGELINES		
۲	083+67.55	ΤO	3104+35.81	WB	510			510	CENTERLINE	ES	
	SUB-TOTA	L SN	014-0067			2997		2997	]		
			TOTAL			5994		5994	]		
F 01	ILLINOIS				SCHEDIII ES	OF QUANTITIES		F.A.P. RTE.	SECTION		TOTAL SHE SHEETS N

	RAISED	REFLECTIVE F	PAVEMENT MA	RKERS	
STATION	LANE	RAISED RE PAVEMEN REMO	T MARKER	RAISED REFLECTIVE PAVEMENT MARKER	REPLACEMENT REFLECTOR
		WHOLE	LENS	ONE-WAY CRYSTAL	ONE-WAY CRYSTAL
	EB/WB	EACH	EACH	EACH	EACH
SN 014-0066					
3083+71.34 TO 3086+27.09	EB	3	23	3	23
SN 014-0067					
3083+67.55 TO 3086+23.31	WB	3	23	3	23
TOTAL		5	2	6	46

1WHOLE - IS THE REMOVAL OF THE ENTIRE MARKER. LENS - IS THE REMOVAL OF THE LENS ONLY. LENSES ARE TO BE REMOVED THAT WOULD CONFLICT WITH THE TRAFFIC STAGING.

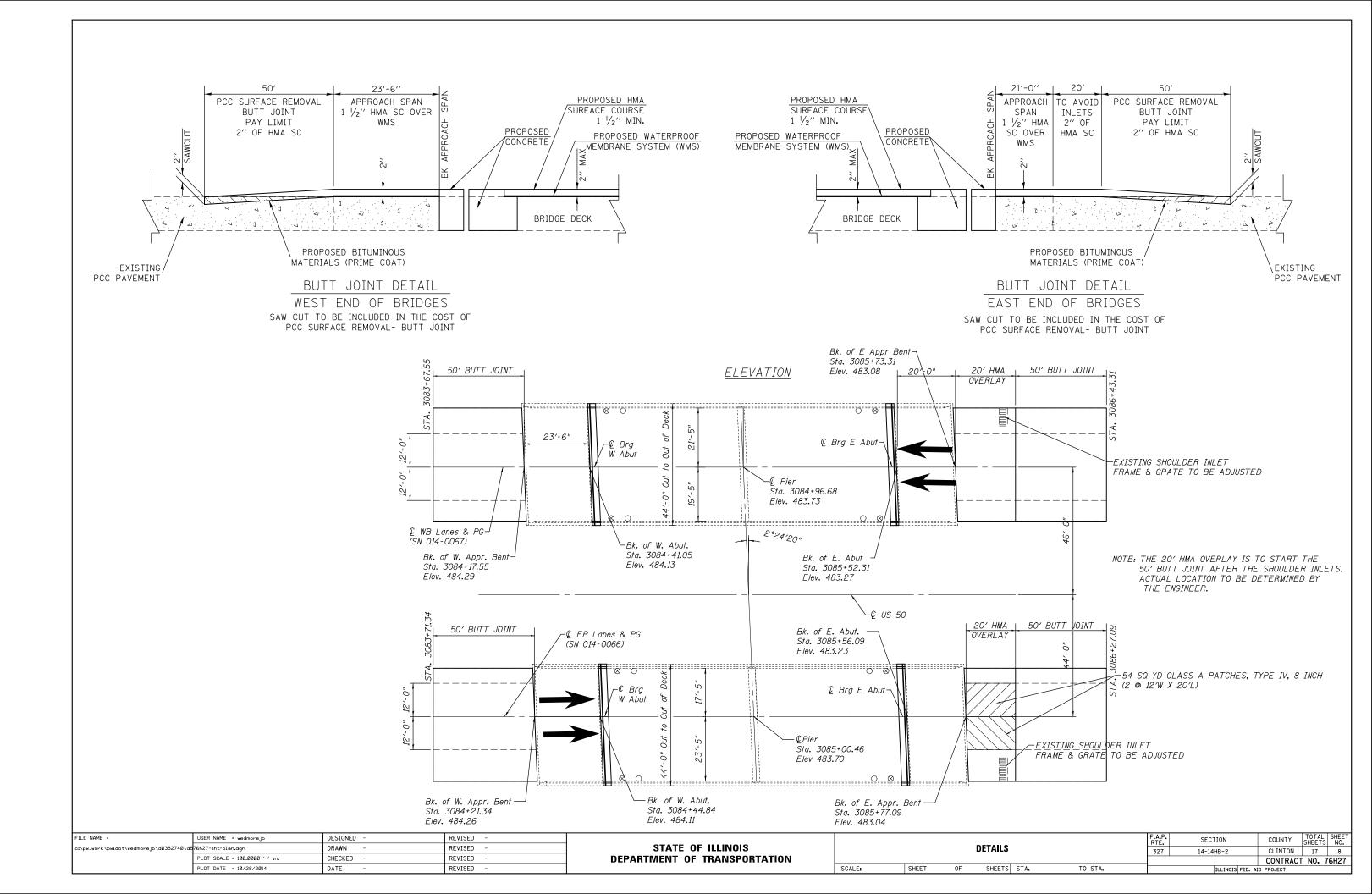
FILE NAME =	USER NAME = wedmorejb	DESIGNED -	REVISED -								F.A.P.	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\wedmorejb\d0382740\d8	76h27-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		S	CHEDULE		ANTITIES		327	14-14HB-2	CLINTON 17 6
	PLOT SCALE = 100.0000 ′ / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							021	111110	CONTRACT NO. 76H27
	PLOT DATE = 10/28/2014	DATE -	REVISED -		SCALE:	SHEET	0F	SHEETS	STA.	TO STA.		ILLINOIS FED.	. AID PROJECT

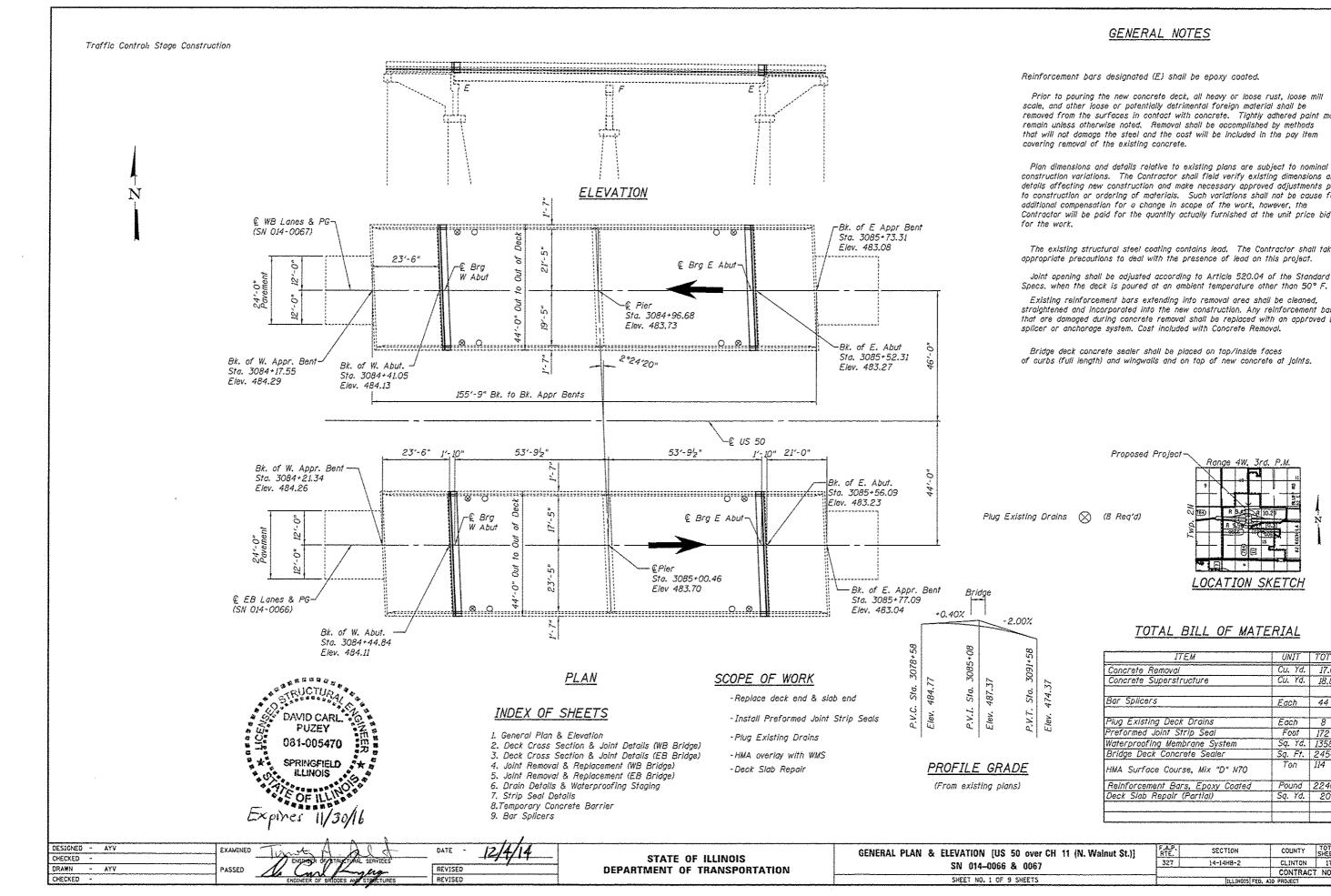


LEGEND FOR US 50

- ① EXISTING PCC PAVEMENT
- ② EXISTING PCC SHOULDER
- ③ EXISTING SUBBASE
- (4) EXISTING PIPE UNDERDRAIN
- (5) EXISTING AGGREGATE SHOULDER

FILE NAME =	USER NAME = wedmorejb	DESIGNED -	REVISED -								F.A.P. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\wedmorejb\d0382740\d8	76h27-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	TYPICAL ROADWAY SECTION				327	14-14HB-2	CLINTON			
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: SHEET NO. OF SHEETS STA. TO STA.					CONTRA	CT NO. 76H27			
	PLOT DATE = 10/28/2014	DATE -	REVISED -				TO STA.	FED. ROAD D	IST. NO. ILLINOIS	FED. AID PROJECT				





Prior to pouring the new concrete deck, all heavy or loose rust, loose mill removed from the surfaces in contact with concrete. Tightly adhered point may

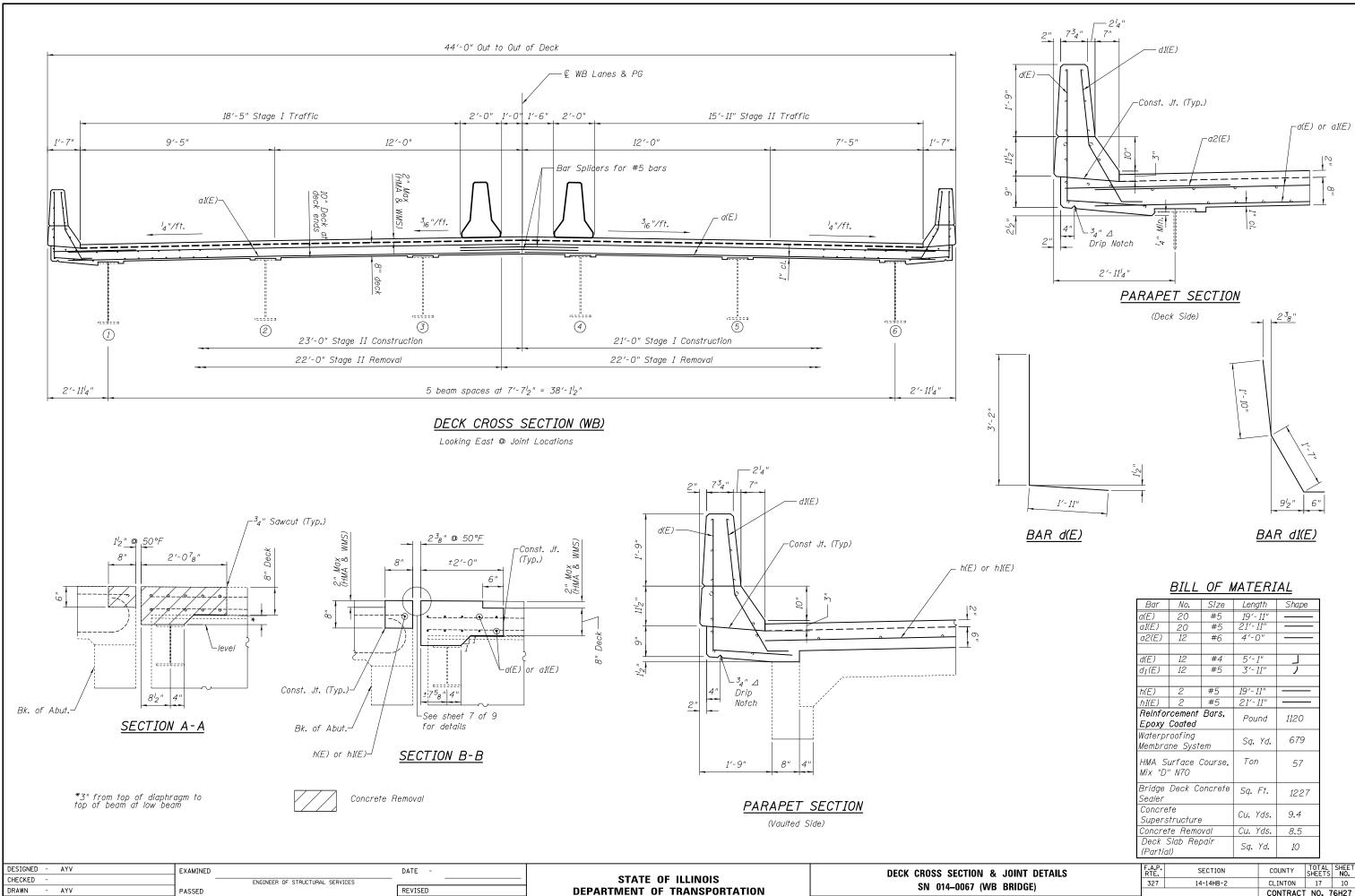
construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for Contractor will be paid for the quantity actually furnished at the unit price bid

The existing structural steel coating contains lead. The Contractor shall take

straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar

Cu. Yd.	
1 44. 14.	17.0
Cu. Yd.	18,8
Each	44
Each	8
Foot	172
Sq. Yd.	1358
Sq. Ft.	2454
Ton	114
Pound	2240
Sq. Yd.	20
	Each Each Foot Sq. Yd. Sq. Ft. Ton Pound

over CH 11 (N. Walnut St.)]	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
067	327	14-1488-2	CLINTON	17	9
			CONTRACT	NO, 7	6H27
ETS		ILLINOIS FED. A	O PROJECT		



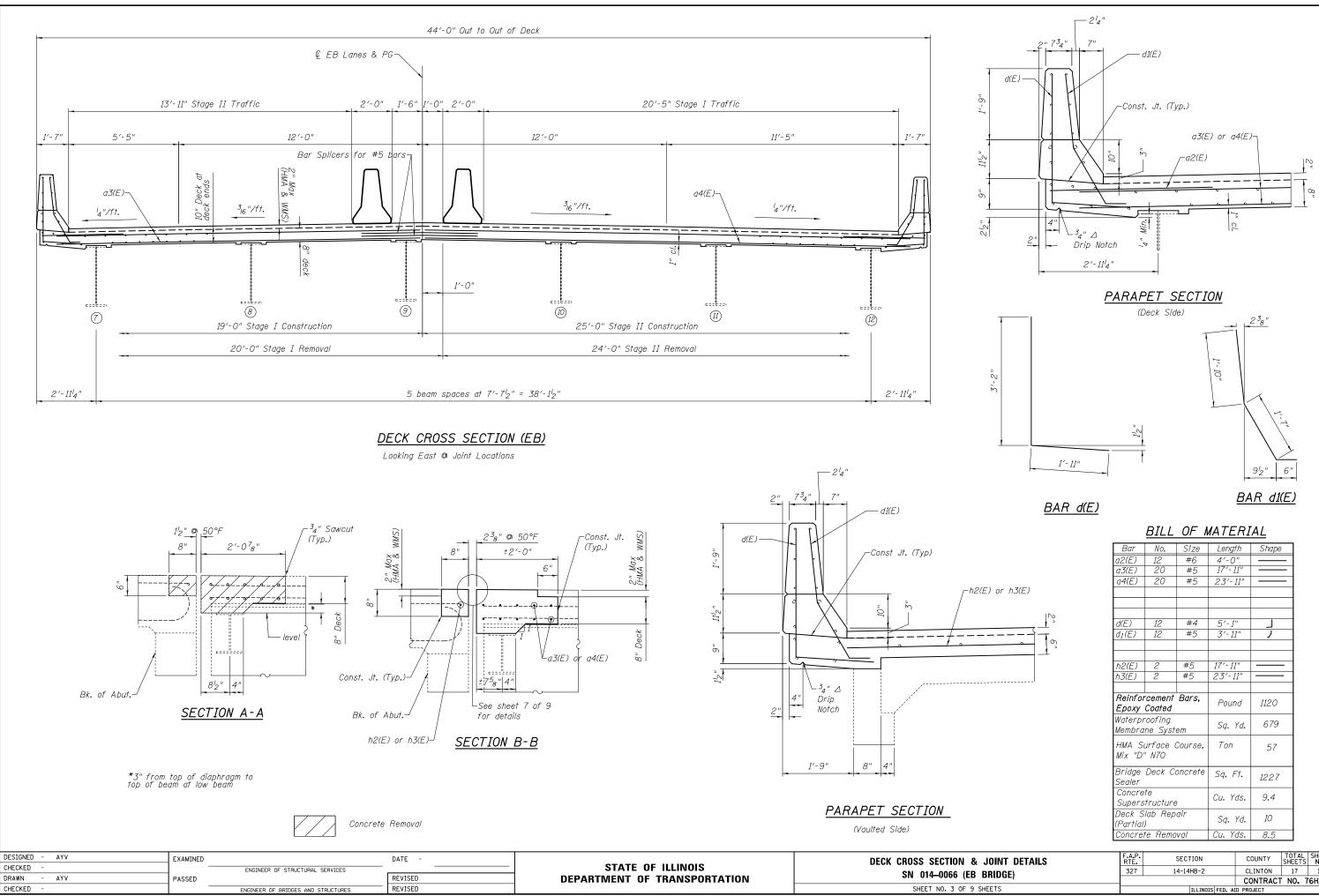
REVISED

IGINEER OF BRIDGES AND STRUCTUR

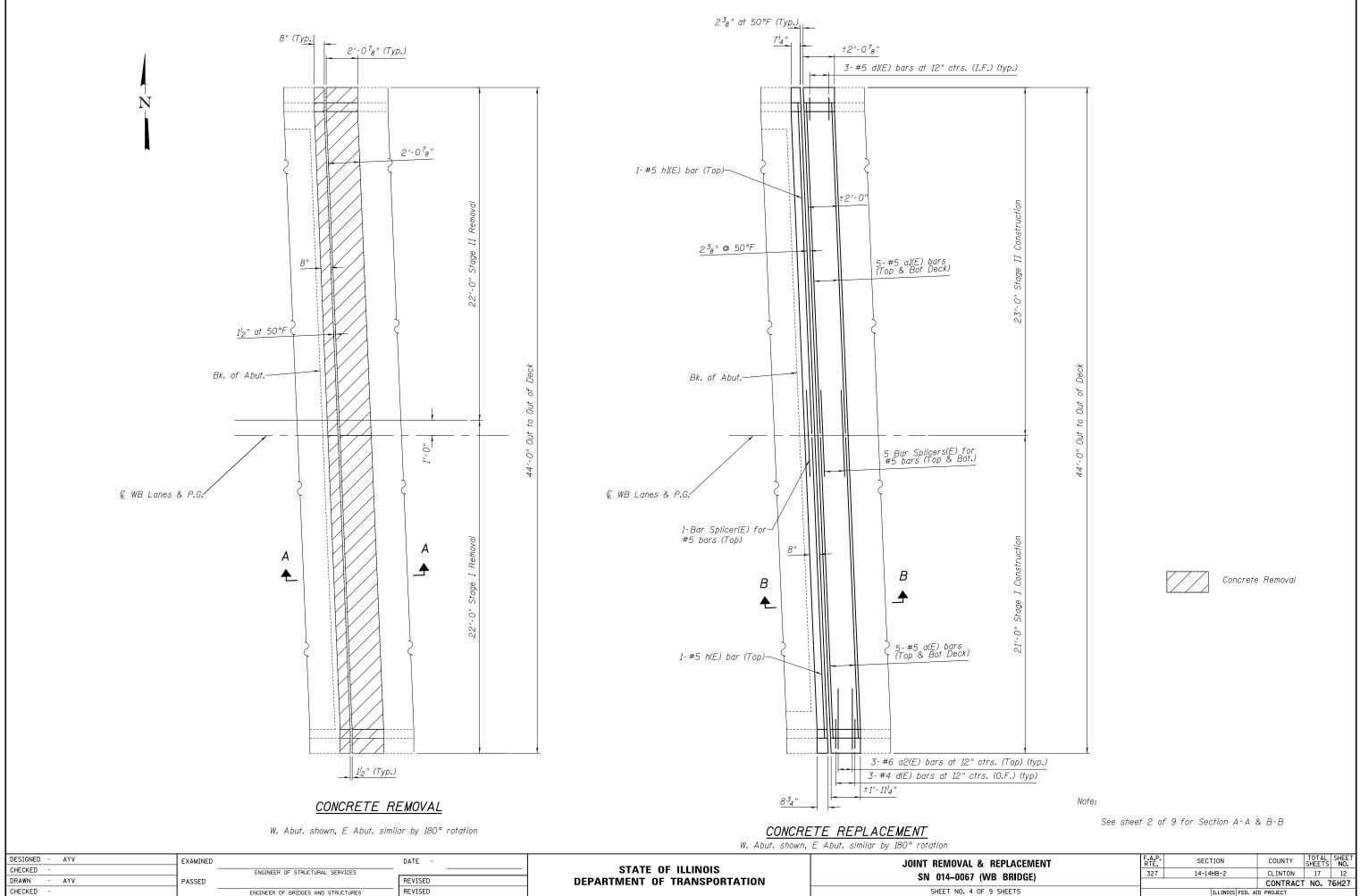
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SHEET NO. 2 OF 9 SHEETS

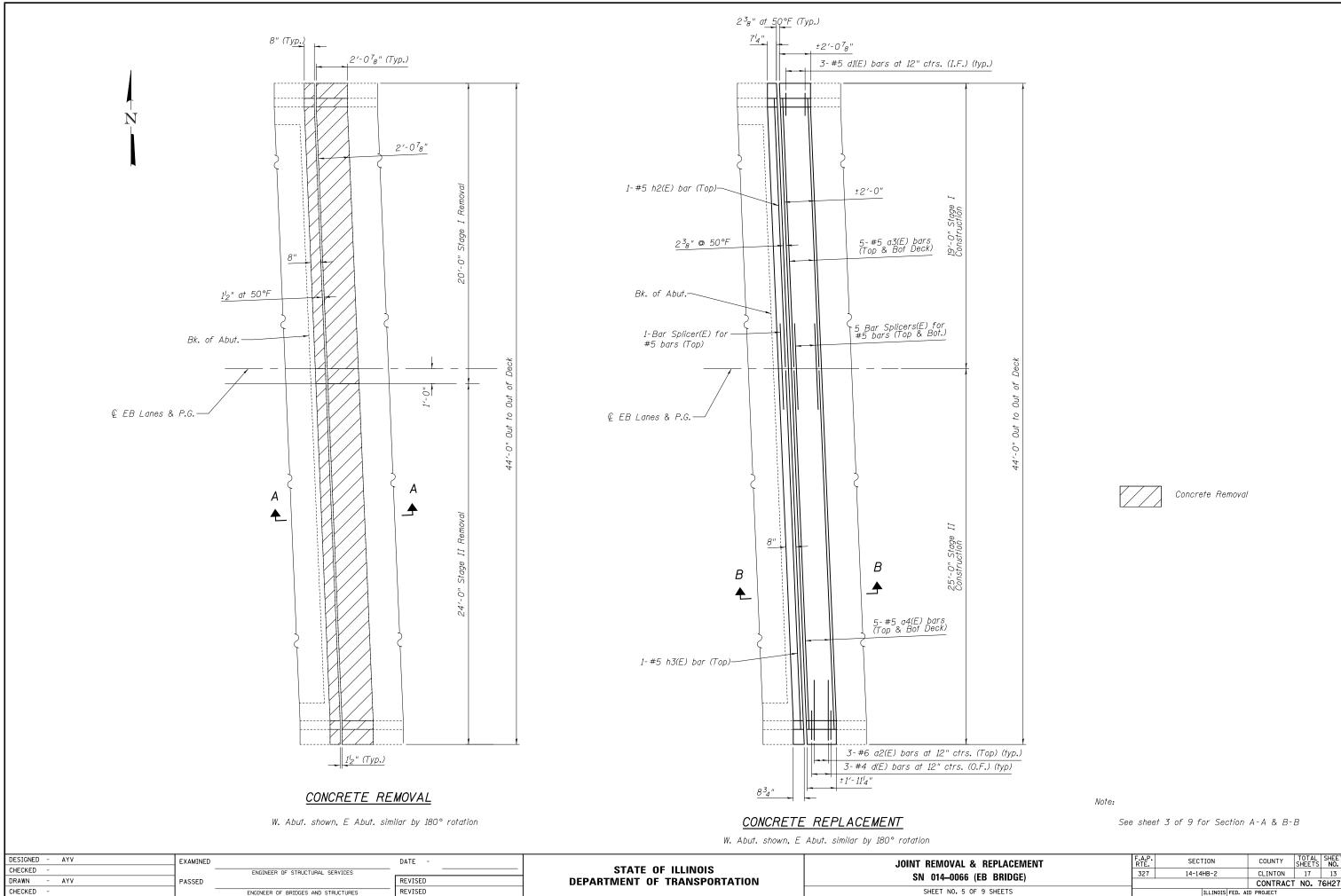
	BILL	UFN			AL			
Bar	No.	Size	Leng	jth	Shap	е		
a(E)	20	#5	19'-	11"				
a1(E)	20	#5	21'	11"		_		
a2(E)	12	#6	4'-(	2"		_		
d(E)	12	#4	5′					
d1(E)	12	#5	3'	11"				
h(E)	2	#5	19'-1	11"		_		
h1(E)	2	#5	21'-			_		
Reinfor Epoxy	cement Coated	Bars,	Pou	nd	1120			
Waterpr Membra	roofing ne Syst	em	Sq.	Yd.	679	ł		
HMA S Mix "D	urface ( " N70	Course,	Tor	1	57			
Bridge Sealer	Deck C	oncrete	Sq.	Ft.	122	7		
	tructure		Cu. X		9.4			
	te Remo		Си. 1	Yds.	8,5			
Deck S (Partia	Slab Rej I)	oair	Sq.	Yd.	10			
F.A.P. RTE.	S	ECTION		СС	DUNTY	TOT /	AL TS	SHEE NO.
327	14	1-14HB-2		CL	INTON	17	_	10
					NTRACI	「 NO.	. 7	6H27
		ILLINOI	S FED. A	ID PRO	JECT			



	_				
& JOINT DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BRIDGE)	327	14-14HB-2	CLINTON	17	11
5 Blibac,			CONTRACT	NO. 7	6H27
9 SHEETS		ILLINOIS FED. AI	D PROJECT		

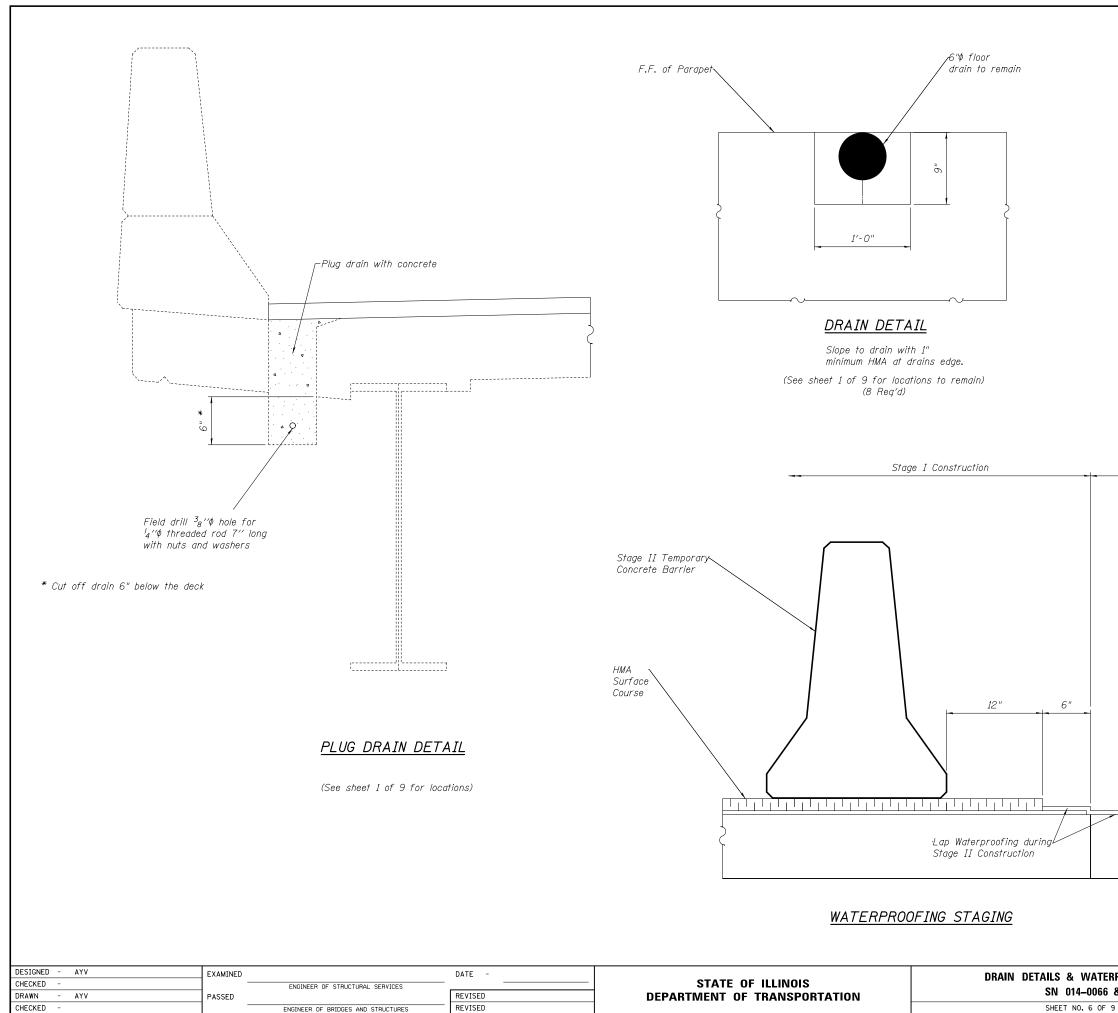


REPLACEMENT	RTE.	SECTION		COUNTY	SHEETS	NO.
VB BRIDGE)	327	14-14HB-2		CLINTON	17	12
				CONTRACT	NO. 7	'6H27
9 SHEETS		ILLINOIS	FED, AI	D PROJECT		



 
 COUNTY
 TOTAL SHEETS
 SHEET NO.

 CLINTON
 17
 13
 CONTRACT NO. 76H27 ILLINOIS FED. AID PROJECT



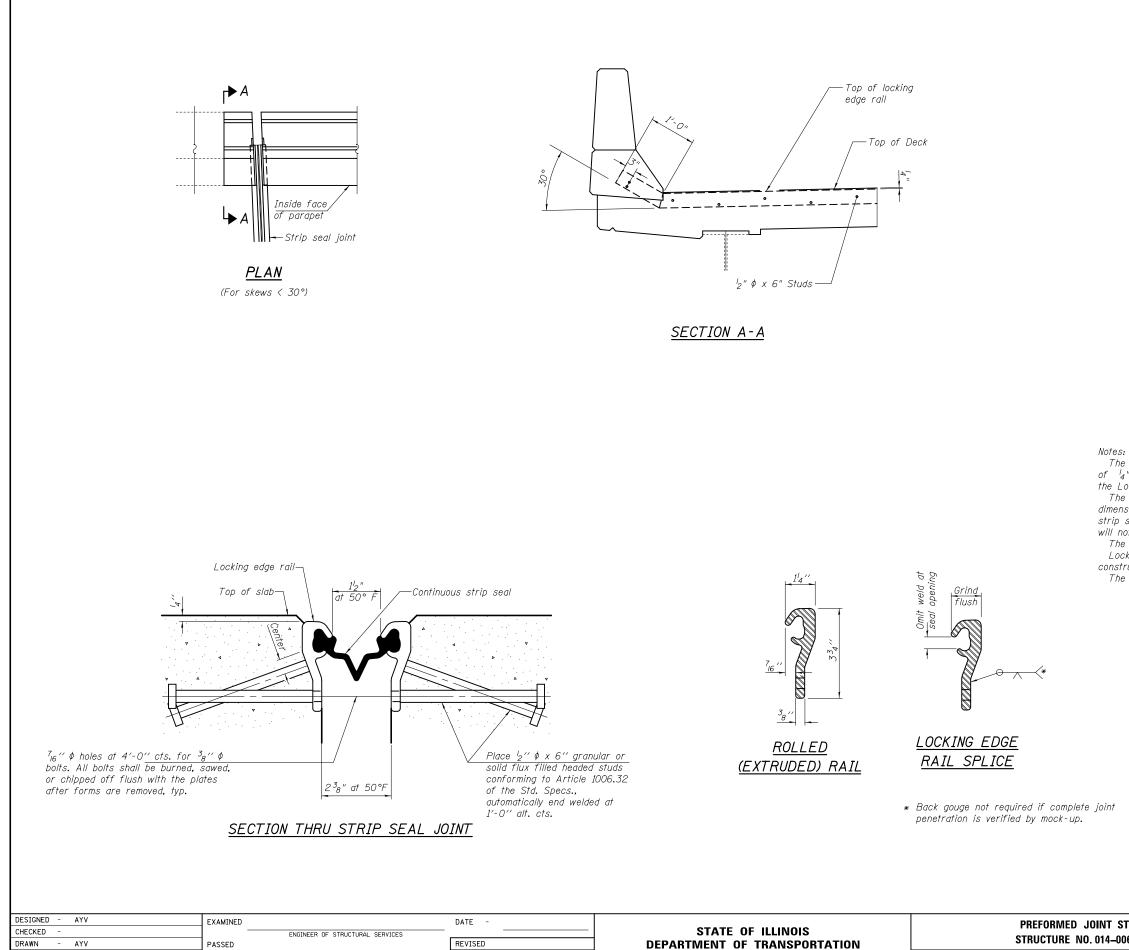
Stage II Construction

-Waterproofing Membrane System

BILL OF MATERIAL

Plug Existing Deck Drain	Each	8

RPROOFING STAGING	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
& 0067	327	14-14HB-2	CLINTON	17	14
8 0007			CONTRACT	' NO. 7	6H27
9 SHEETS	ILLINOIS FED. AID PROJECT				



REVISED

ENGINEER OF BRIDGES AND STRUCTURE

CHECKED -

SHEET NO. 7 OF 9

The strip seal shall be made continuous and shall have a minimum thickness of  $I_4$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

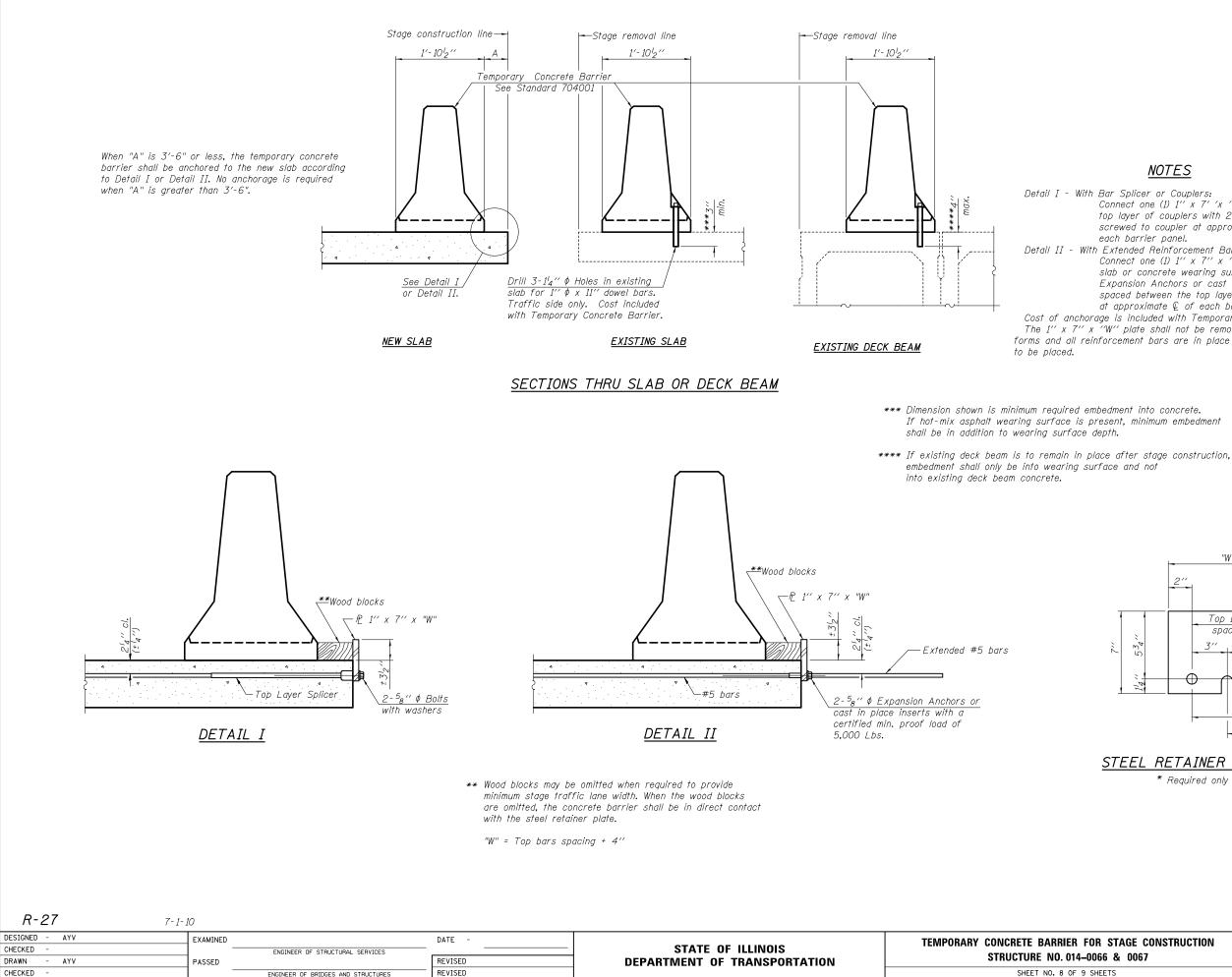
The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

# BILL OF MATERIAL

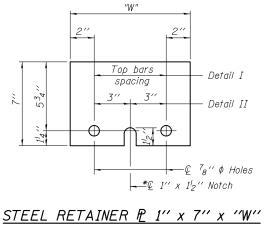
Item	Unit	Total
Preformed Joint Strip Seal	Foot	172

STRIP SEAL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-0066 & 0067	327 14-14HB-2		CLINTON	17	15
	CONTRACT NO. 76H27				
9 SHEETS	ILLINOIS FED. AID PROJECT				



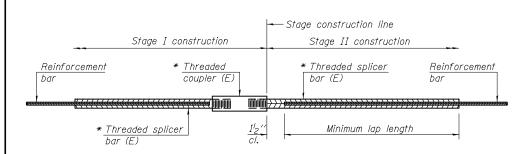
## NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) 1" x 7' 'x "W" steel P to the top layer of couplers with 2- ${}^{5}_{8}$ "  $\phi$  bolts screwed to coupler at approximate *Q* of each barrier panel. Detail II - With Extended Reinforcement Bars: Connect one (1) 1" x 7" x "W" steel P to the concrete slab or concrete wearing surface with  $2^{-5}8'' \phi$ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\mathcal{Q}$  of each barrier panel. Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready



\* Required only with Detail II

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FOR STAGE CONSTRUCTION 0066 & 0067	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	327	14-14HB-2	CLINTON	17	16
	CONTRACT NO. 76H27				
9 SHEETS	ILLINOIS FED. AID PROJECT				



### STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths							
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6	
3, 4	1'-5''	1'-11''	2'-1''	2'-4''	2'-7''	2'-11''	
5	1'-9''	2'-5''	2'-7''	2'-11''	3'-3''	3′-8″	
6	2'-1''	2'-11''	3'-1''	3′-6′′	3′-10′′	4'-5''	
7	2'-9''	3′-10′′	4'-2''	4'-8''	5'-2''	5′-10′′	
8	3'-8''	5′-1′′	5′-5″	6'-2''	6′-9′′	7'-8''	
9	4'-7''	6′-5′′	6′-10′′	7′-9′′	8'-7''	9'-8''	

Table 1: Black bar, 0.8 Class C

Table 2:Black bar, Top bar lap, 0.8 Class CTable 3:Epoxy bar, 0.8 Class CTable 4:Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Class CTable 6: Epoxy bar, Top bar top, Class C

DRAWN

CHECKED

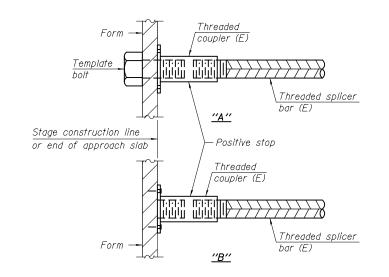
- AYV

Threaded splicer bar length = min. lap length +  $1_2^{\prime\prime}$  + thread length

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

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	40	3
Vaulted Approach	#5	4	3

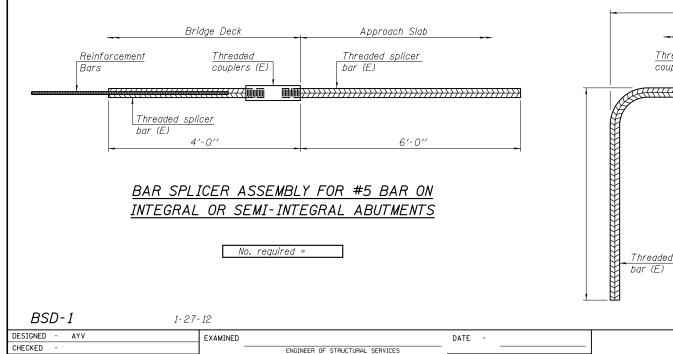
PASSED



### 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.

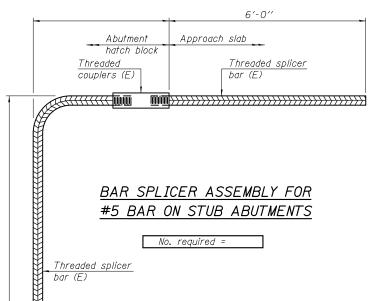
(E) : Indicates epoxy coating.



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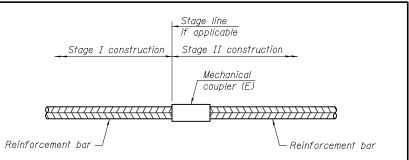
REVISED

REVISED



STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 



# STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies 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.

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ECHANICAL SPLICER DETAILS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-0066 & 0067	327	14-14HB-2	CLINTON	17	17
			CONTRACT	NO. 7	6H27
9 SHEETS	ILLINOIS FED. AID PROJECT				