02-28-14 LETTING ITEM 092

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

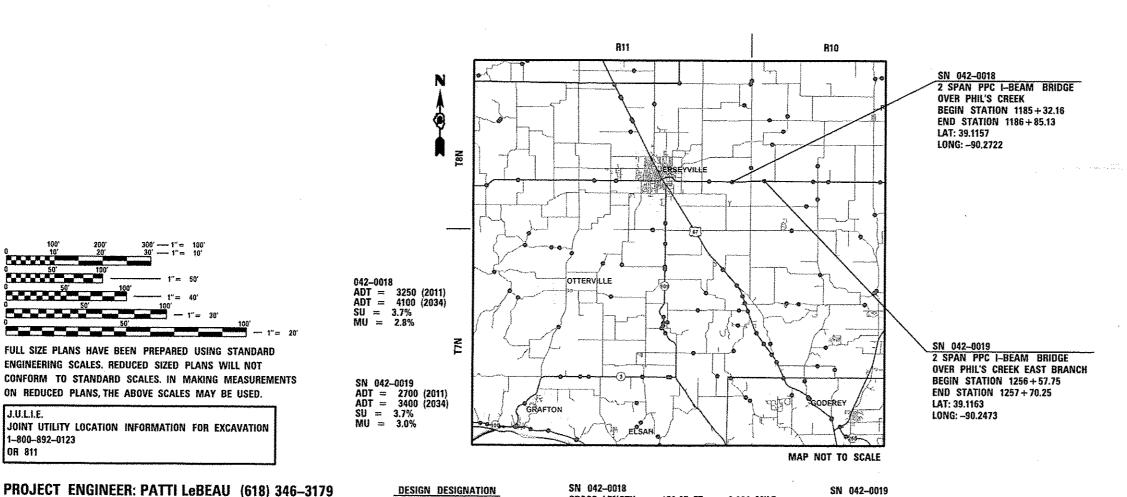
DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAP ROUTE 325 (IL 16) SECTION 113BR, 113BR-1 BRIDGE REPAIRS JERSEY COUNTY

C-98-046-13



GROSS LENGTH = 153.67 FT. = 0.029 MILE

NET LENGTH = 153.67 FT. = 0.029 MILE

GROSS LENGTH = 112.5 FT, = 0.021 MILE

NET LENGTH = 112.5 FT. = 0.021 MILE

CONTRACT NO. 76G44

1-800-892-0123 OR 811

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

PROJECT MANAGER: BILLIE OWEN (618) 346-3209

OF THE STATE OF ILLINOIS



F.A.P RYE. 325

1138R, 1138R-1

JERSEY 33 1

ILLINOIS CONTRACT NO. 76C44

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

16 20 13

PRINTED BY THE AUTHORITY

GENERAL NOTES

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

 - AMEREN ILLINOIS
 FRONTIER NORTH, INC.
 - GRAFTON TELEPHONE COMPANY
 - . GREENE COUNTY PARTNERS, INC.
 - . JERSEY COUNTY RURAL WATER COMPANY
 - . M.J.M. ELECTRIC COOPERATIVE, INC.

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.

- 2. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING AND TOPOGRAPHY SHOWN IN THE PLANS WAS CREATED USING MICROFILM AND FIELD MEASUREMENTS. BOTH SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 3. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- 4. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE CRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RICHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
- 5. ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES UNLESS OTHERWISE NOTED IN THE PLANS.
- 6. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 7. A QUANTITY OF 5 TONS OF AGGREGATE SURFACE COURSE, TYPE B HAS BEEN INCLUDED IN THE PLANS FOR PLACEMENT AS NEEDED AT THE ENTRANCE STA. 1187+97 RT.
- 8. ALL EARTH FROM EARTH EXCAVATION SHALL REMAIN ON SITE. ANY NECESSARY EROSION CONTROL MEASURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- 9. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE	BINDER/WIDENING		
AC/PG	PG 64-22	PG 64-22		
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70		
MIX COMPOSITION				
(GRADATION MIXTURE)	IL 9.5	IL 19.0 FG		***************************************
FRICTION AGG	MIXTURE "D"	MIXTURE "B"		

^{**} TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

PLAN QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 MM THICKNESS)

INDEX OF SHEETS

GENERAL NOTES, COMMITMENTS & STANDARDS

SUMMARY OF QUANTITIES 3-6

TYPICAL SECTIONS

SCHEDULES 9-12 STAGE CONSTRUCTION PLANS FOR SN 042-0018 & 042-0019

DETAIL SHEET

SN 042-0018 PLAN SHEETS 14-24

SN 042-0019 PLAN SHEETS

STANDARDS

000001-06 001001-02 001006 635011-02 643001-02 701006-05 701306~03 701311-03 701321-13 701326-04 701901-03 704001-07 780001-04 781001-03

COMMITMENTS

FILE NAME =	USER NAME = shallandaska	DESIGNED -	REVISED -				c	ENERAL	MOTEC		F.A.P.	SECTION	COUNTY	TOTAL SHEET
os\pu_work\pvsdot\ahallandaska\dB346922	D875544-aht-gannotaldgn	DRAWN -	REVISED ~	STATE OF ILLINOIS	-		u.	FIACHUE	NUILO		325	11388, 11388-1	JERSEY	33 2
	PLOT SCALE = 100,0000 '/ 15	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							1-22-		CONTRAC	T NO. 76644
MDOELNAME	PLOT DATE = 12/20/2013	DATE ~	REVISED -		SCALE:	SHEET	0F	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECY	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

CONSTRUCTION CODE

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CODE NO. 1TEM UNIT OUTAL QUANTITY O014 00 NO. 1TEM UNIT OUTAL QUANTITY O024018 042 20200100 EARTH EXCAVATION CU YD 230 115 1 40200800 AGGREGATE SURFACE COURSE, TYPE 8 TON 5 5 5 40600200 BITUMINOUS MATERIALS (PRIME COAT) TON 0.1 0.05 0 40600200 AGGREGATE (PRIME COAT) TON 1 0.5 0 40600300 AGGREGATE (PRIME COAT) TON 1 0.5 0 40600300 TEMPORARY RAMP SO YD 189 94.5 9 406003340 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SO YD 189 94.5 6 406003340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NTO TON 145 82.5 6 40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NTO TON 145 82.5 6 50102400 CONCRETE REMOVAL COURSE, IL-18.0 FG, NTO TON 74.5 43.9 3
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CODE NO. ITEM UNIT QUANTITY 0014 00 042-0018 042 20200100 EARTH EXCAVATION CU 70 230 115 3 40200800 AGGREGATE SURFACE COURSE, TYPE B TON 5 5 40600200 BITUMINOUS MATERIALS (PRIME COAT) TON 0.1 0.05 0 40600300 AGGREGATE (PRIME COAT) TON 1 0.5 0 40600300 AGGREGATE (PRIME COAT) TON 1 0.5 0 40600300 TEMPORARY RAMP SO YD 189 94.5 9 40600990 TEMPORARY RAMP SO YD 40 20
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PLOT SCALE * 180,8008 ' / 1m,
PLOT DATE * 12/28/2013

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION							325)138R, 1138R-1	JERSEY CONTRACT	33 NO.	3 76G44
DEFARINCING OF TRANSPORTATION	SCALE:	SHEET 1	QF 4	SHEETS	STA.	TO STA,	1	ILLINOIS PED, A	D PROJECT	140.	777

CONS	TRUCT	ION	CODE
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CODE		THE REAL PROPERTY OF THE PROPE	TOTAL	BRIDGE 0014	BRIDGE 0014
NO.	ITEM	UNIT	QUANTITY	042-0018	042-0019
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	4	4
				-	
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1		4
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5
70100500	TOURS IS CONTROL AND DROTTESTION STANDARD 70.705	1 6:31		0.5	2.5
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6	6
70300100	SHORT TERM PAVEMENT MARKING	FOOT	152	76	76
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3840	1870	1970
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1427	697	730
70400100	TEMPORARY CONCRETE BARRIER	FOOT	775	400	375
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	700	350	350
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3	1	2
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	****	1	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES									F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
									325	1138R, 1138R-1	JERSEY	33	4	
SCALE	SHEET	2	٥F	4	SHEETS	STA.	TO STA.		CONTRACT NO. 76G44					

CONSTRUCTION CODE

	CODE			TOTAL	BRIDGE 0014	BRIDGE 0014
	NO.	ITEM	UNIT	QUANTITY	042-0018	042~0019
	70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1 .	1	
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	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE). TEST LEVEL 3	EACH	3	. 444	2
*	78000200	THERMOPLASTIC PAVEMENT MARKING ~ LINE 4"	FOOT	3840	1870	1970
			And an analysis of the second		-	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	20	10	10
*	78200520	BARRIER WALL MARKERS, TYPE B	EACH	8	4	4
7,4			Ar Ar and an ar			The state of the s
*	78200530	BARRIER WALL MARKERS, TYPE C	EACH	8	4	4
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	20	10	10
	78300100	PAVEMENT MARKING REMOVAL	SO FT	1280	623	657
	X5030530	FLOOR DRAIN EXTENSION	EACH	32	20	12
	X5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	1986	1801	185
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SHIPSE DECK CONONE TO DEACH		1300	1001	200
	X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	101	194	
•						
	Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SO YD	1120	648	472
	Z0015802	PLUG EXISTING DECK DRAINS	EACH	68	48	20
	Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE 1)	SO YD	20	10	10
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	in/	* SPECIALTY ITEM				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	SUMMARY OF QUANTITIES										COUNTY	TOTAL SHEETS	SHEET NO.
									325	1138R, 1138R-1	JERSEY	33	5
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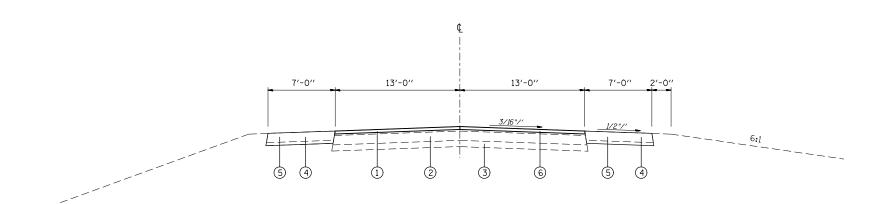
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CODE NO.	ITEM	TINU	TOTAL QUANTITY	0014 042-0018	0014 042-0019
			referentementer	Andrews de Andrews	THE BOTTLE AND
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	20	10	10
			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE STATE OF THE S	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	80	40	40
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

٦				SUM	MA	RY OF Q	UANTI	IES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
									325	1138R, 1138R-1	JERSEY	33 NO	6 76644
	SCALE:	SHEET	4	OF	4	SHEETS	STA,	TO STA.		ILLINOIS FED. A	CONTRACT PROJECT	NO.	16044



TYPICAL SECTION

STA. 1182+00.00 TO STA. 1185+32.16 STA. 1186+85.83 TO STA. 1190+00.00 STA. 1253+00.00 TO STA. 1256+57.75 STA. 1257+70.25 TO STA. 1261+00.00

LEGEND

- 1 EXISTING HOT-MIX ASPHALT OVERLAY 3"
- ② EXISTING HOT-MIX ASPHALT BASE COURSE 6"
- 3 EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A 4"
- 4 EXISTING AGGREGATE SHOULDER, TYPE A 6"
- 5 PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N70 8" *
- 6 PROPOSED HOT-MIX ASPHALT SURFACE COURSE 2" **

- HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N70 AT SN 042-0018 WB STA. 1183+75 TO STA. 1185+50 AND STA. 1186+96 TO STA. 1188+29 EB STA. 1183+92 TO STA. 1185+17 AND STA. 1186+64 TO STA. 1188+36
- HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N70 AT SN 042-0019 WB STA. 1254+58 TO STA. 1256+58 AND STA. 1257+71 TO STA. 1259+45 EB STA. 1255+32 TO STA. 1256+57 AND STA. 1257+70 TO STA. 1258+70
- **HOT-MIX ASPHALT SURFACE COURSE AT SN 042-0018
- STA. 1185+22 TO STA. 1185+32.16
- STA. 1186+85.83 TO STA. 1185+93
- **HOT-MIX ASPHALT SURFACE COURSE AT SN 042-0019
- STA. 1256+47 TO STA. 1257+75
- STA. 1257+70.25 TO STA. 1257+80

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	PLOT DATE = 12/20/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED.	ROAD DIST. NO. ILLINOIS FED. A	ID PROJECT	

									PAVEI	MENT MARKING SC	HEDULE						
					THERMOF	PLASTIC PAVEMEN	IT MARKING	TEMPC	RARY PAVEMENT	MARKING	WORK ZONE	RAISED	RAISED	BARRIER	BARRIER	SHORT	PAVEMENT
					EDGE LINE	CENTERLINE	CENTERLINE	EDGE LINE	CENTERLINE	CENTERLINE	PAVEMENT	REFLECTIVE	REFLECTIVE	WALL	WALL	TERM	MARKING
					SOLID	SKIP-DASH	SOLID	SOLID	SKIP-DASH	SOLID	MARKING	PAVEMENT	PAVEMENT MARKER	MARKERS	MARKERS	PAVEMENT	REMOVAL
					4" WHITE	4" YELLOW	4" YELLOW	4" WHITE	4" YELLOW	4" YELLOW	REMOVAL	MARKER	REMOVAL	TYPE B	TYPE C	MARKING	
					FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH	EACH	EACH	FOOT	SQ FT
SN 042	0018																
STA	1182+00	TO	STA	1190+00	1600.0	200.0	70	1600.00	200.00	70.00	697.0	10	10	4	4	76	623
SN 042	0019																
STA	1253+00	TO	STA	1261+00	1600.0	200.0	170.0	1600.00	200.00	170.00	730.0	10	10	4	4	76	657
				SUB-TOTAL	3200	400	240	3200	400	240	1427	20	20	8	8	152	1280
			(GRAND TOTAL		3,840			3,840		1,427	20	20	8	8	152	1280

EARTH EXCAVATION	
	EARTH
STATION	EXCAVATION
042-0018	CUYD
STAGE 1	
WEST QUADRANT	24.0
EAST QUADRANT	31.2
STAGE 2	
WEST QUADRANT	33.1
EAST QUADRANT	23.6
042-0019	
STAGE 1	
WEST QUADRANT	23.6
EAST QUADRANT	18.9
STAGE 2	
WEST QUADRANT	37.8
EAST QUADRANT	33.1
TOTAL =	225.3
ROUNDED TOTAL =	230

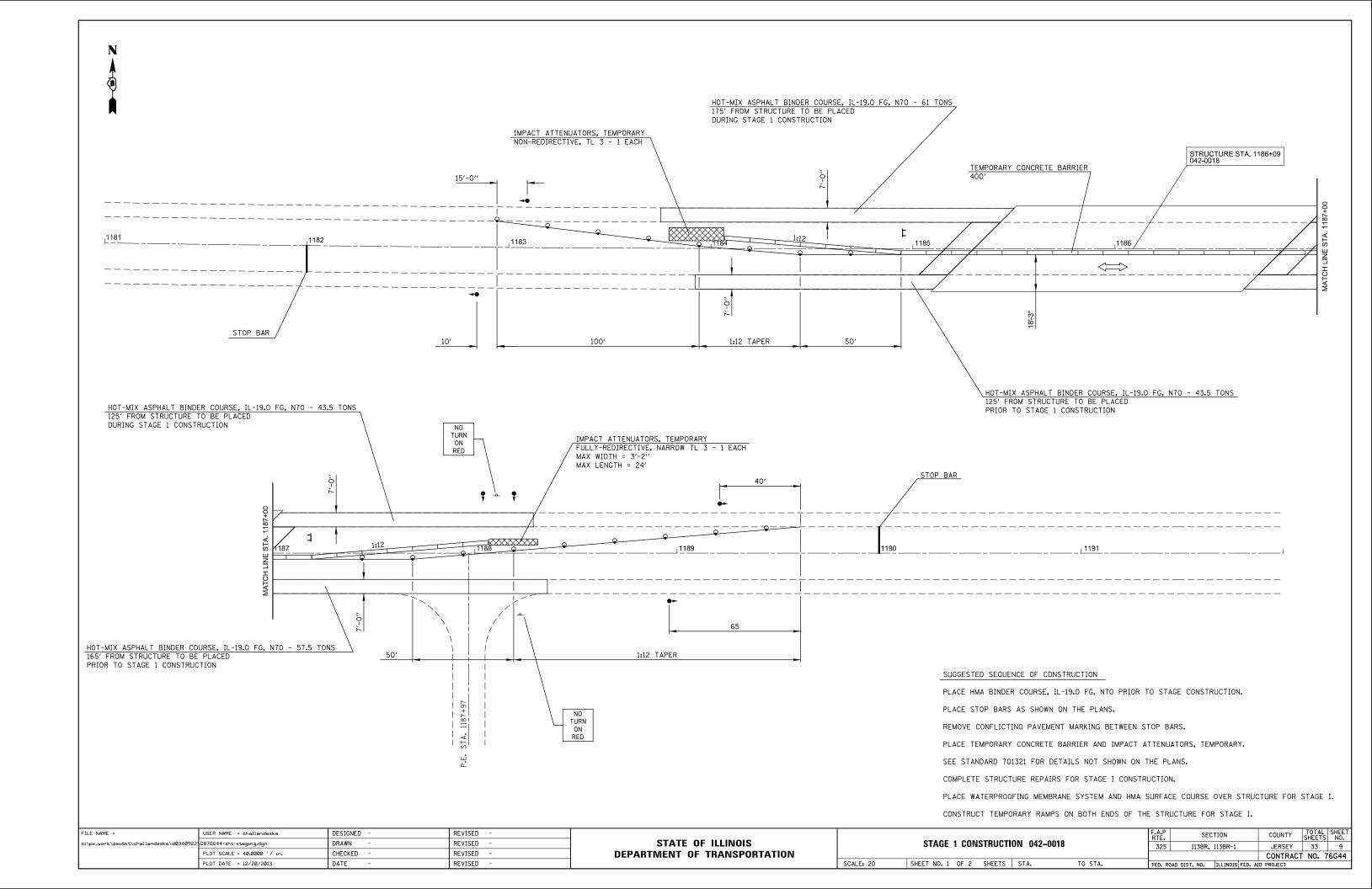
	PAVING SCHEDULE												
	BITUMINOUS	AGGREGATE	HOT-MIX ASPHALT										
	MATERIALS	RIALS MATERIALS SURFACE											
STATION	(PRIME COAT)	(PRIME COAT)	MIX "D", N70										
042-0018	TON	TON TON TO											
STA. 1185+22 TO STA. 1185+32	0.02	0.08	4.6										
STA. 1186+86 TO STA. 1186+96	0.02	0.08	4.6										
042-0019													
STA. 1256+48 TO STA. 1256+58	0.02	0.08	4.6										
STA. 1257+70 TO STA. 1257+80	0.02	0.08	4.6										
TOTAL =	0.08	0.32	18.4										
ROUNDED =	0.1	1 19 7											

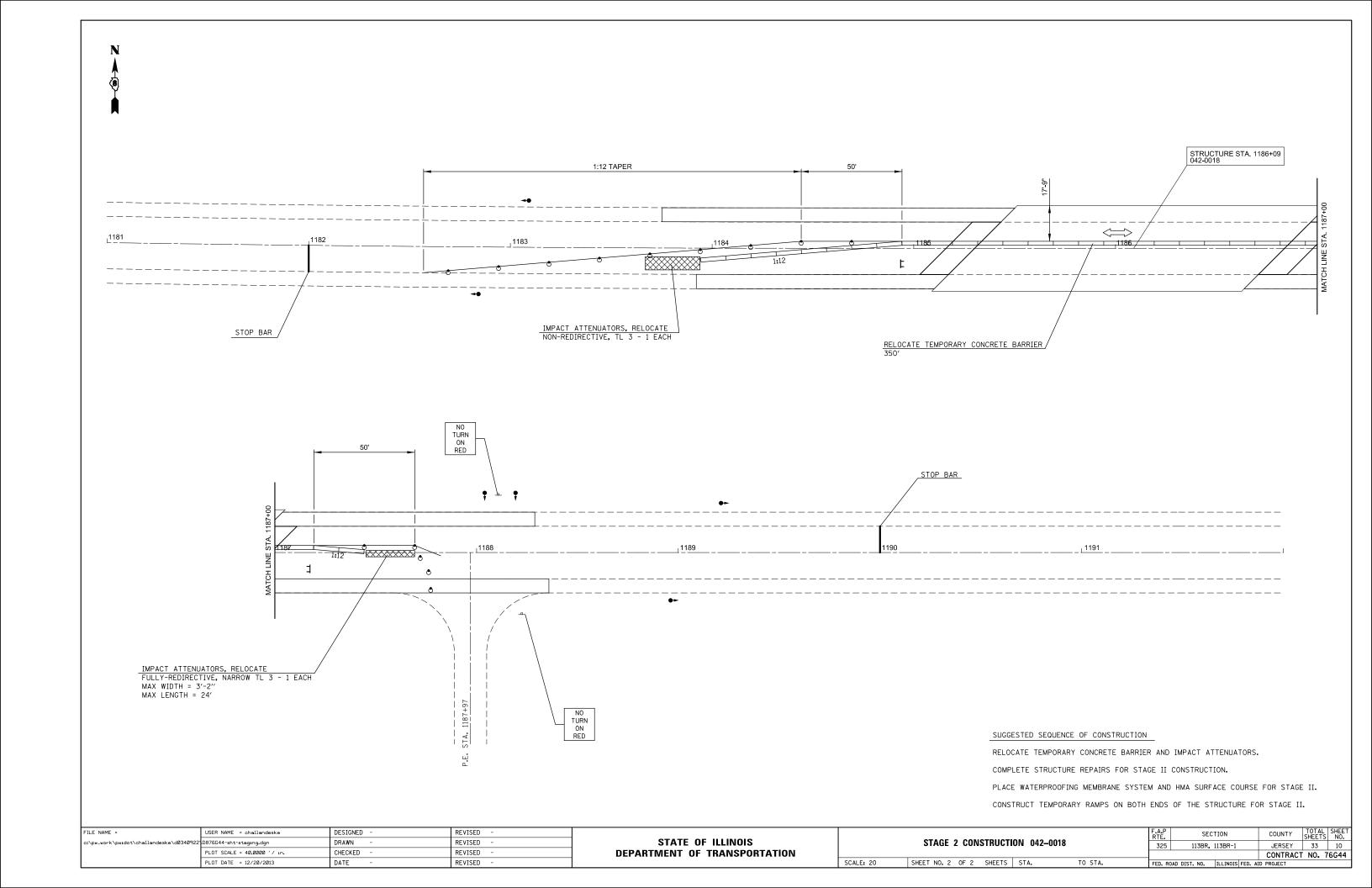
^{*} SEE STRUCTURE PLANS FOR ADDITIONAL QUANTITY.

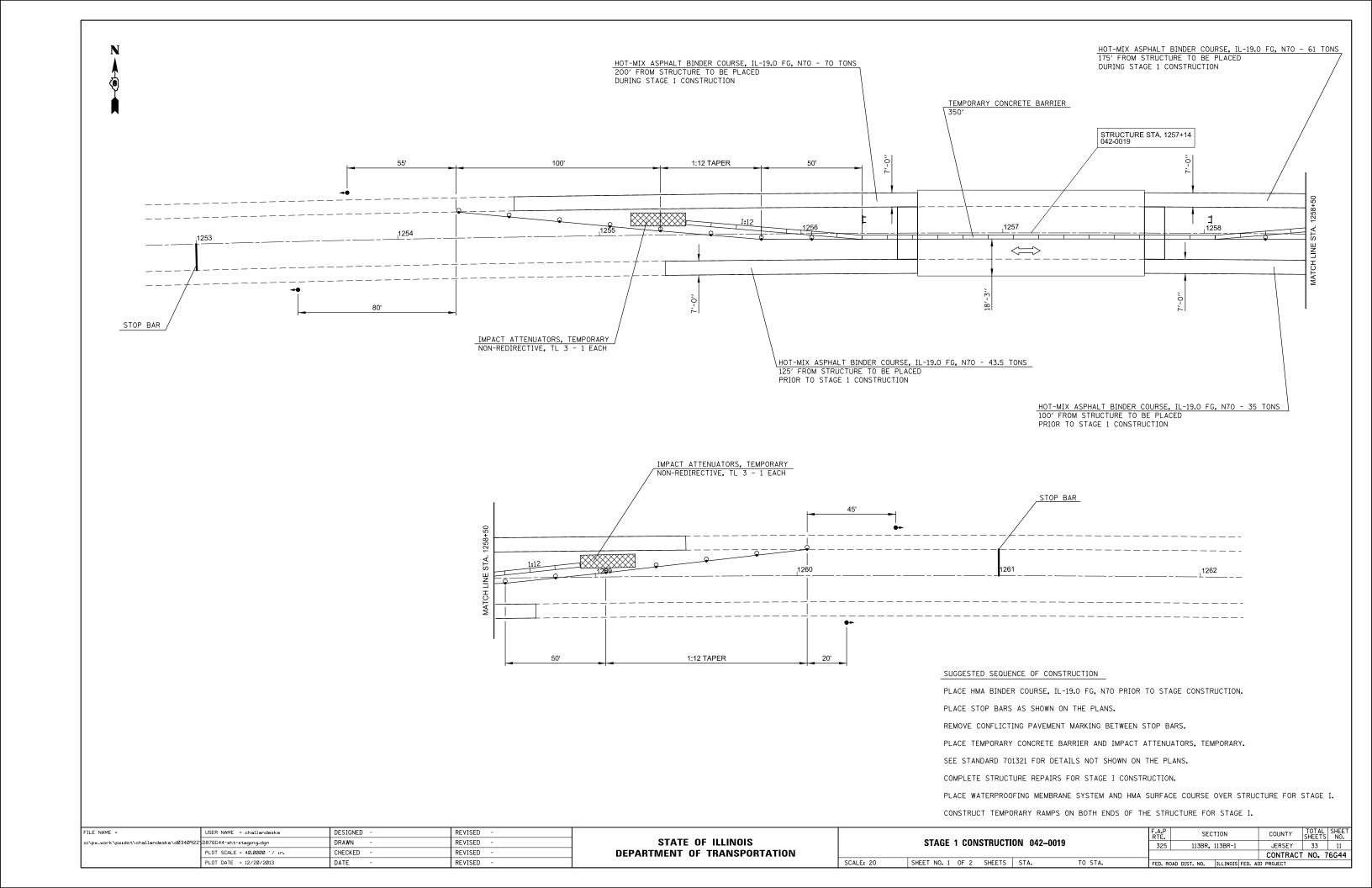
	TEM	PORARY RAM	IP SCHEDULE	
				TEMPORARY
LC	OCATION	WIDTH	LENGTH	RAMP
		FOOT	FOOT	SQ YD
042-0018				
STAGE 1				
STA	1185+32	21.25	2	5
STA	1186+87	21.25	2	5
STAGE 2				
STA	1185+32	21.25	2	5
STA	1186+87	21.25	2	5
0	42-0019			
STAGE 1				
STA	1256+58	21.25	2	5
STA	1257+70	21.25	2	5
STAGE 2				
STA	1256+58	21.25	2	5
STA	1257+70	21.25	2	5
		40		

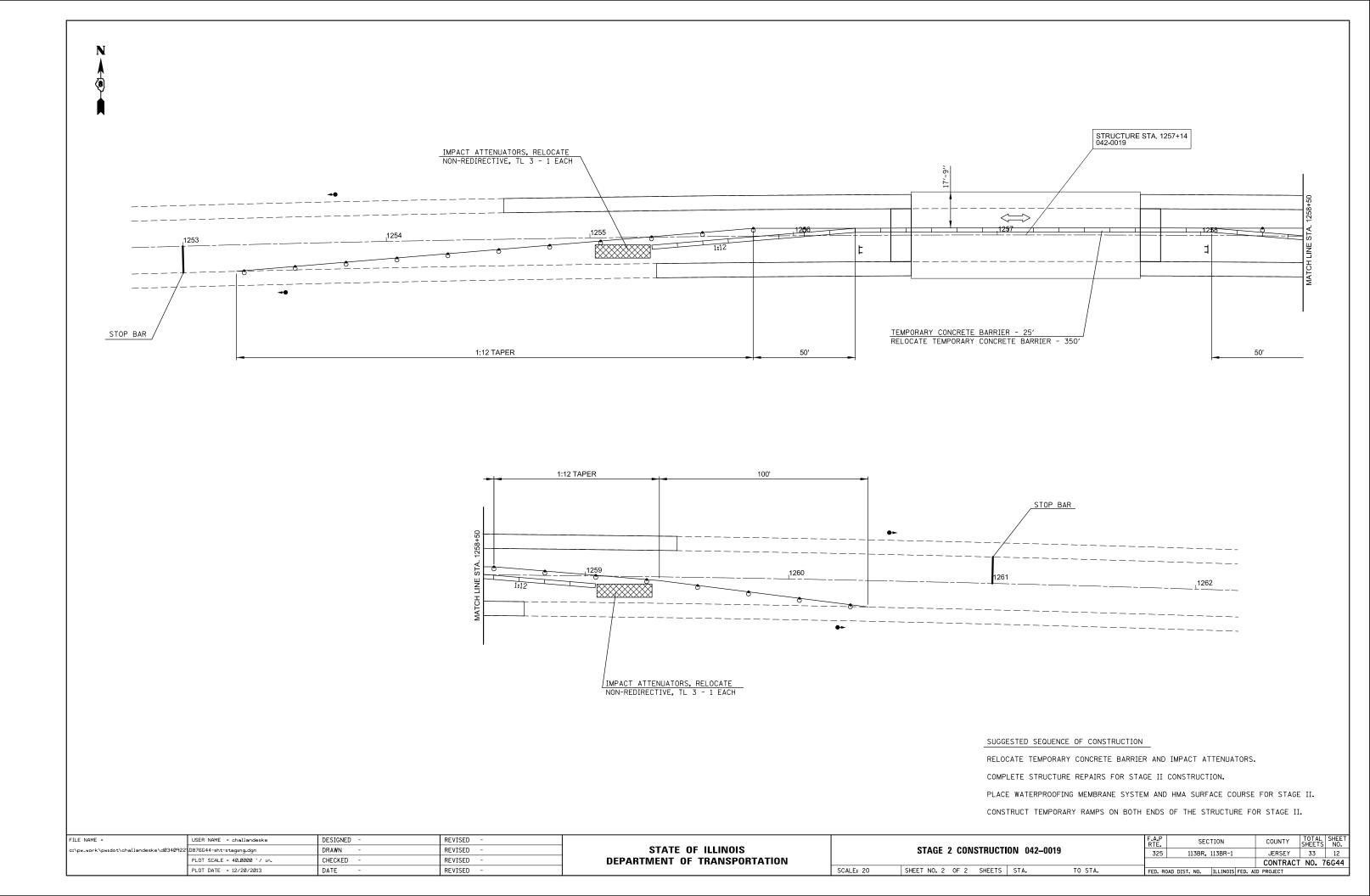
HOT-MIX ASF	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT									
	STATIO	STATION TO STATION SQ YD								
042-0018										
	1185+22	TO	1185+32	47.2						
	1186+86	TO	1186+96	47.2						
042-0019										
	1256+48	TO	1256+58	47.2						
	1257+70	TO	1257+80	47.2						
	SUB-TOTAL - 188.8									
			TOTAL -	189						

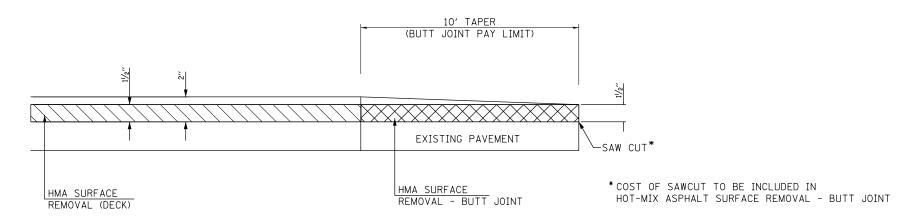
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								, , , , , , , , , , , , , , , , , , ,		T NO. 76G44
\$MODELNAME\$	PLOT DATE = 12/20/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.		











BUTT JOINT ELEVATION VIEW SEE SCHEDULE FOR LOCATIONS

			-
\$MODELNAME\$	PLOT DATE = 12/20/2013	DATE -	REVISED -
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c:\pw_work\pwidot\challandeske\dØ34Ø922\	D876G44-sht-details.dgn	DRAWN -	REVISED -
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STATE	: OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

DETAIL		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		325	113BR, 113BR-1	JERSEY	33	13
				CONTRACT	NO. 7	6G44
SCALE: NONE SHEET 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal 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 additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

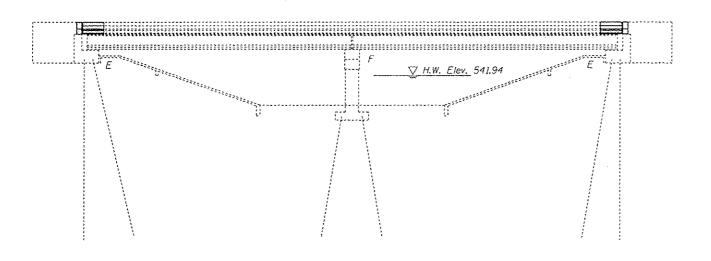
Reinforcement bars designated (E) shall be epoxy coated.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beams.

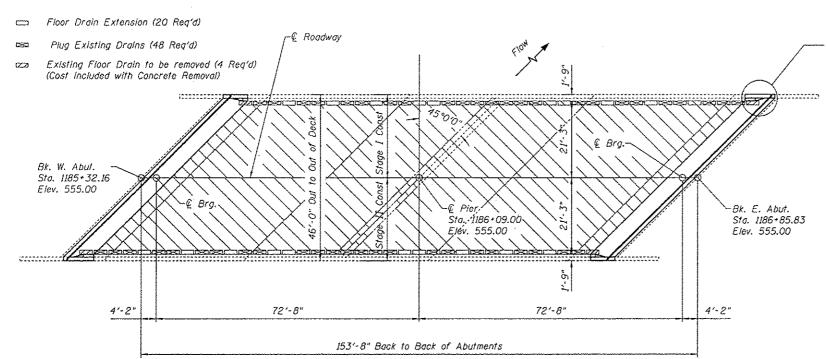
Joint opening shall be adjusted according to Article 520.04 of the Standard Specs, when the deck is poured at an ambient temperature other than 50° F.

Existing reinforcement bars extending into removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Bridge deck concrete sealer shall be placed on top/inside faces of parapets (full length)/wingwalls and on top of new concrete at joints.



ELEVATION



Rail posts at the abutments are to be removed, stored and re-installed. Cost included with Concrete Superstructure.

INDEX OF SHEETS

- I. General Plan & Elevation
- 2. Deck Cross Section
- 3. Joint Removal
- 4. Joint Replacement (W. Abut.)
- 5. Joint Replacement (E. Abut.)
- 6. Joint Details
- 7 Rail Anchorage Details
- 8. Drain Details & Waterproofing Staging
- 9. Strip Seal Details
- 10. Temporary Concrete Barrier
- 11. Bar Splicers

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	43.1
Concrete Superstructure	Cu. Yd.	43.9
Preformed Joint Strip Seal	Foat	128
Waterproofing Membrane System	Sq. Yd.	648
Reinforcement Bars, Epoxy Coated	Pound	5470
Floor Drain Extensions	Each	20
Plug Existing Deck Drains	Each	48
Bar Spilcers	Each	30
HMA Surface Course, Mix "D" N70	Ton	73
Bridge Deck Concrete Sealer	Sq. Ft	1801
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	648
Deck Slab Repair (Partial)	Sq. Yd.	40
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	10
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	10

SECTION 1138A, 1138R-1 COUNTY TOTAL SHEET NO.

Jersey 33 14

CONTRACT NO. 76G44

PLAN

Replace deck ends, hatchblock and Install Preformed Joint Strip Seals, Floor Drain Extensions & Plug Existing Drains. HMA overlay with WMS

DAVID CARL PUZEY

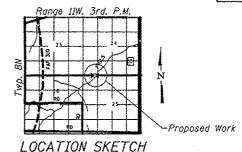
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SPRINGFIELD A ILLINOIS .

Hot-Mix Asphalt Surface Removal (Deck)

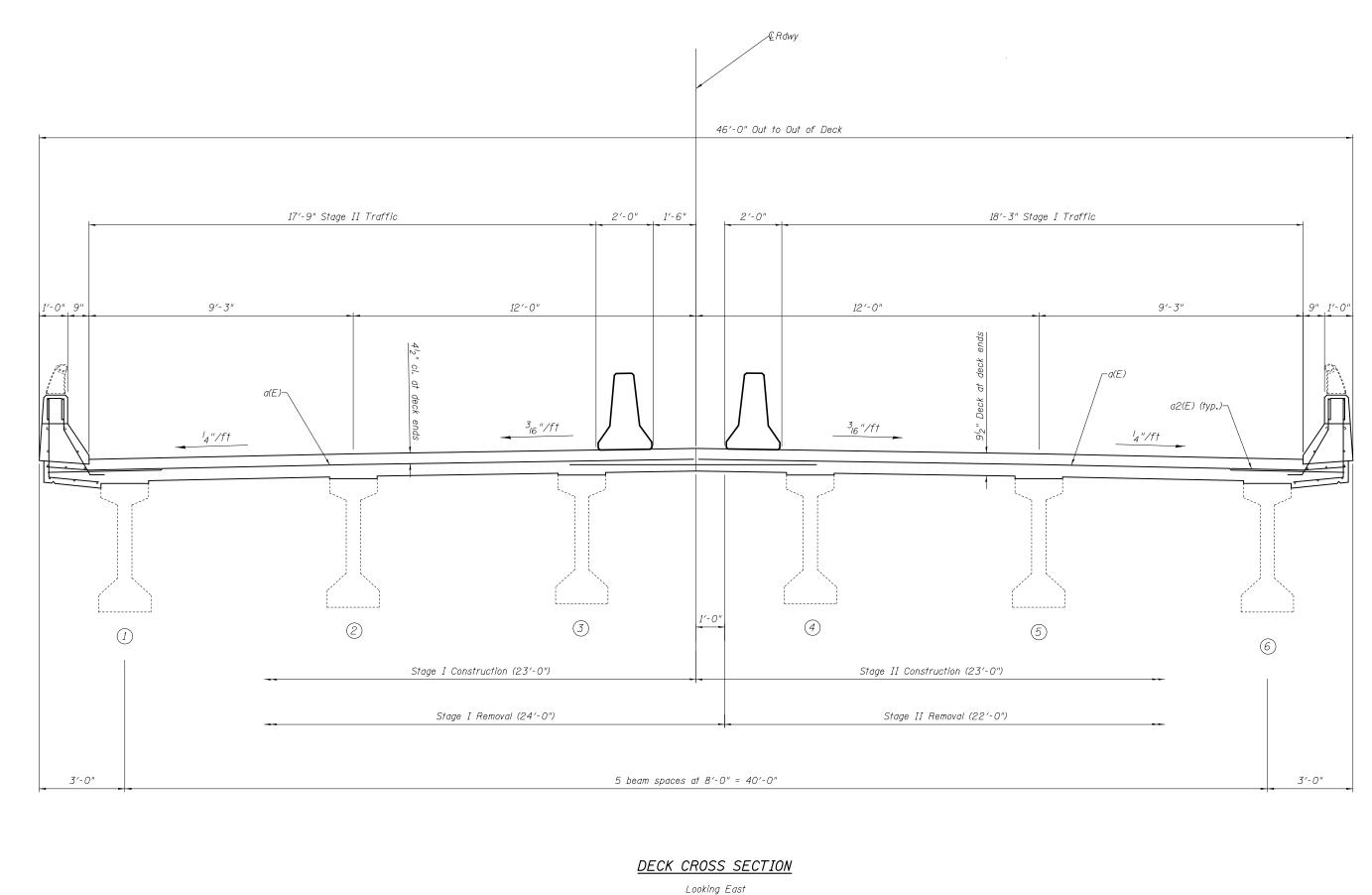
Waterproofing Membrane System HMA Surface Course, Mix "D" N70

0.0 % 1184+



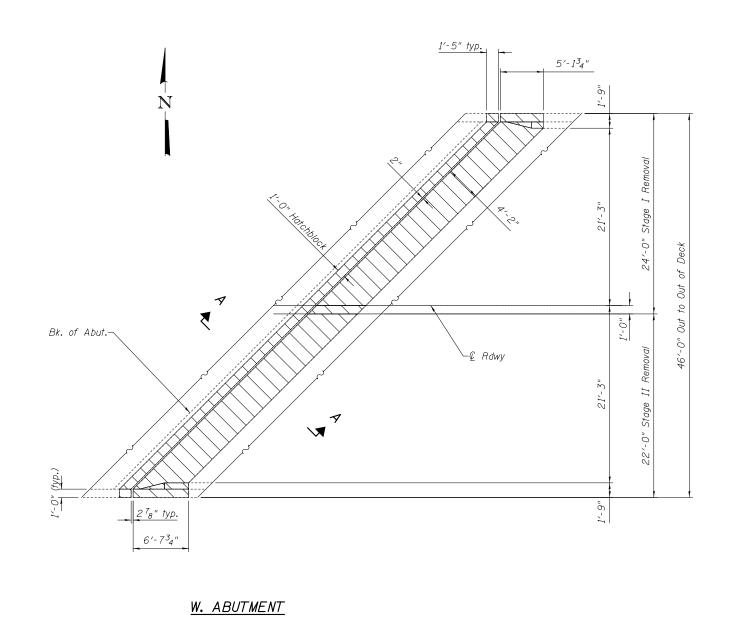
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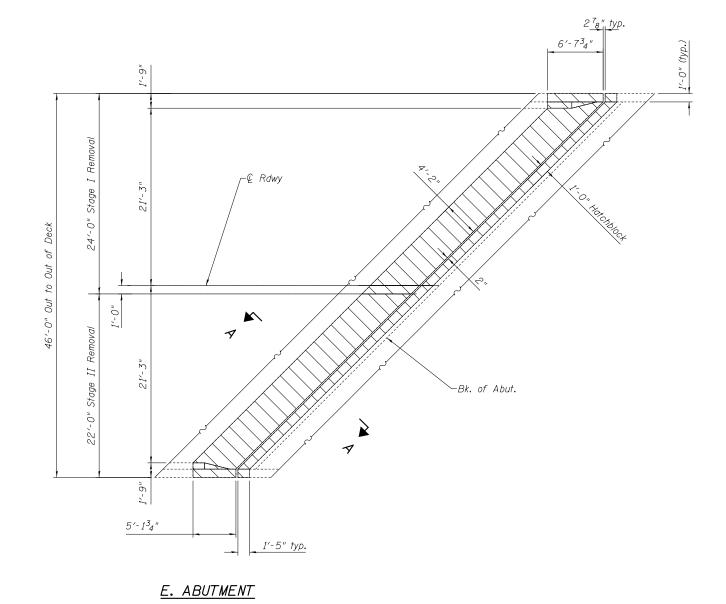
DESIGNED - A.Y.V. EXAMINED Transfer A. A.	DATE - 1/2/14		GENERAL PLAN & ELEVATION	F.
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Joint Locations

DESIGNED - AYV	EXAMINED		DATE -	OTATE OF HAMOIO	DECK CROSS SECTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
CHECKED - DRAWN - AYV	PASSED —	ENGINEER OF STRUCTURAL SERVICES	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 042-0018	325	113BR, 113BR-1	Jersey CONTRAC	33 15 CT NO. 76G44
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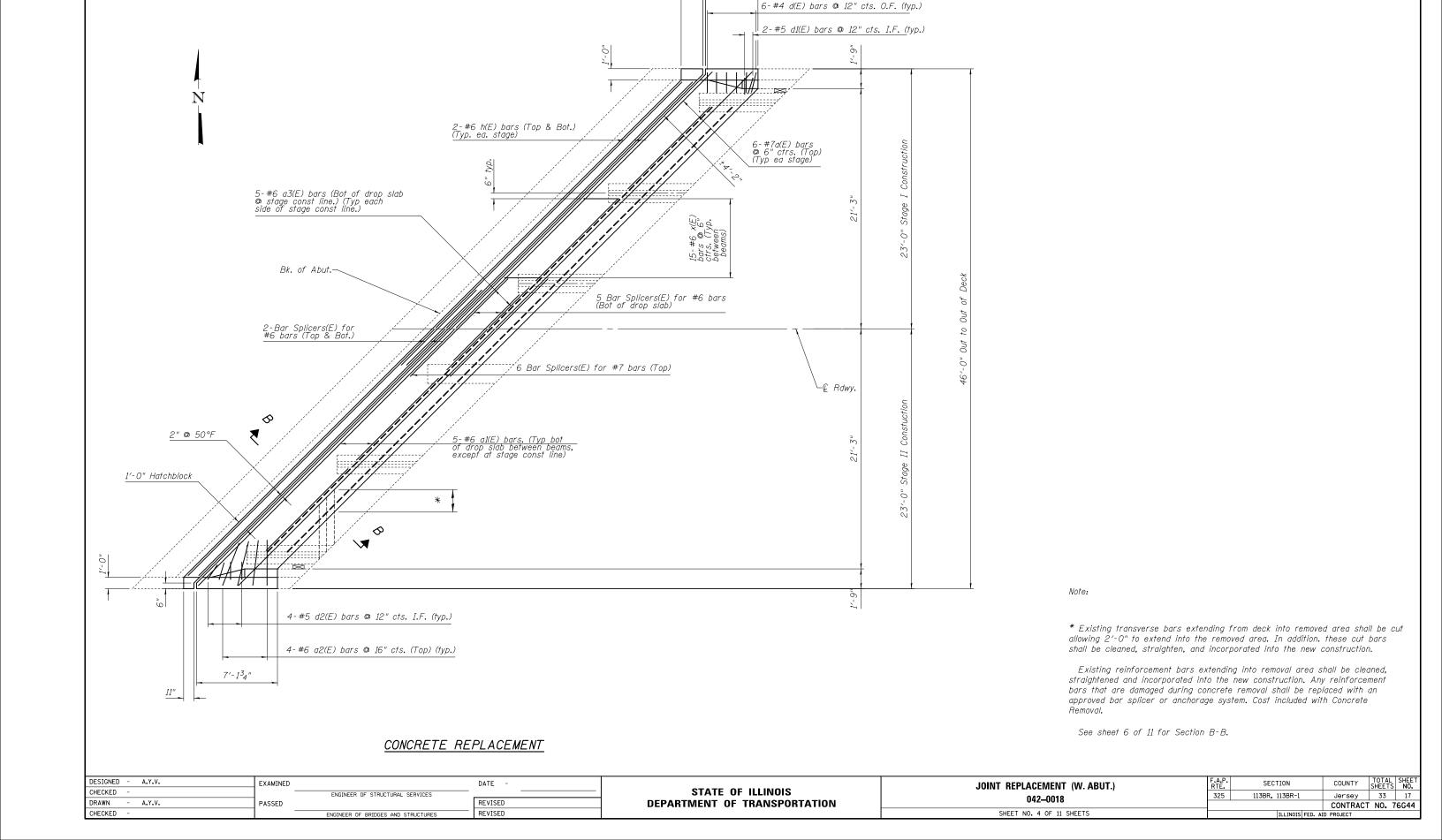




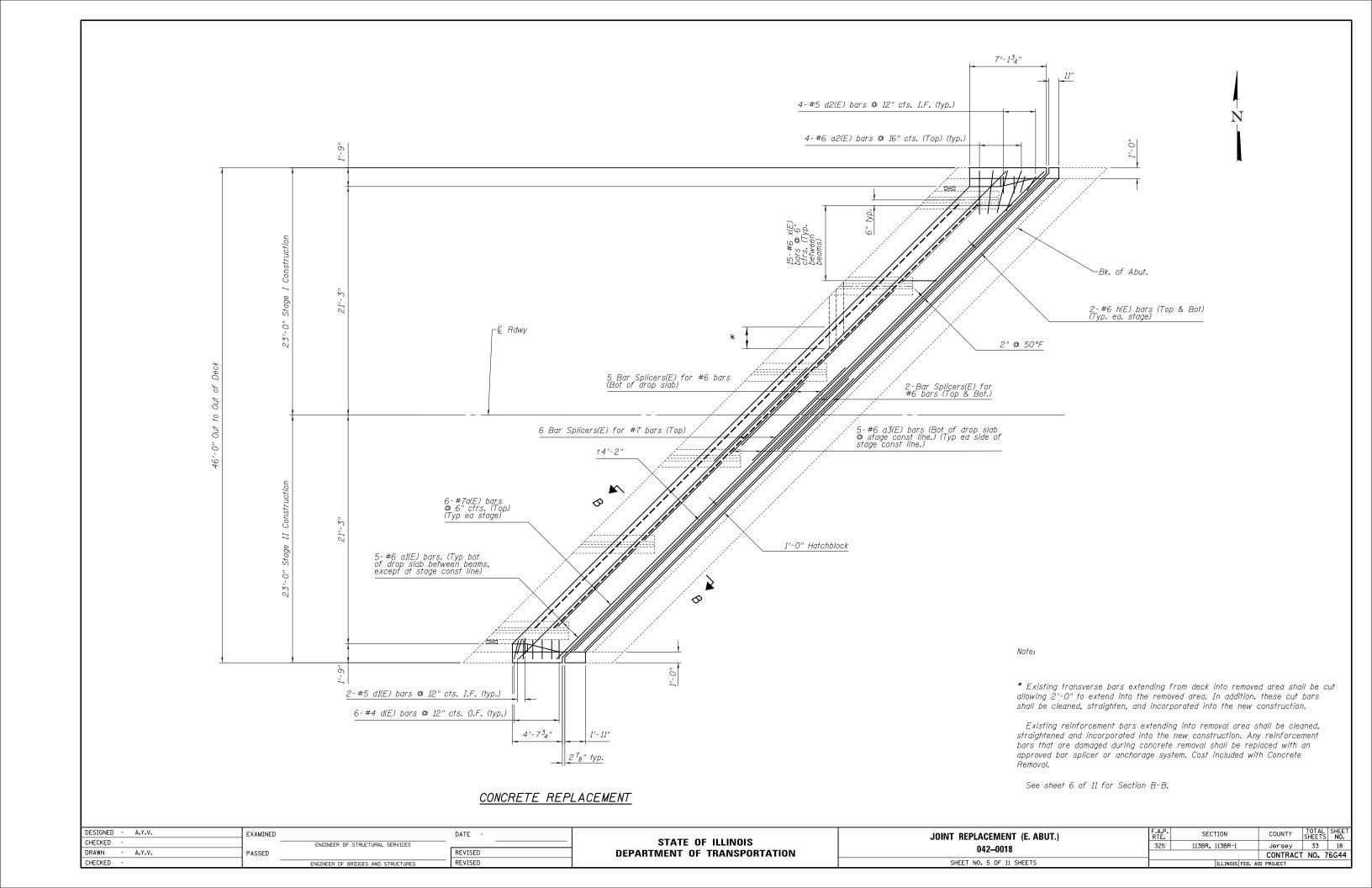
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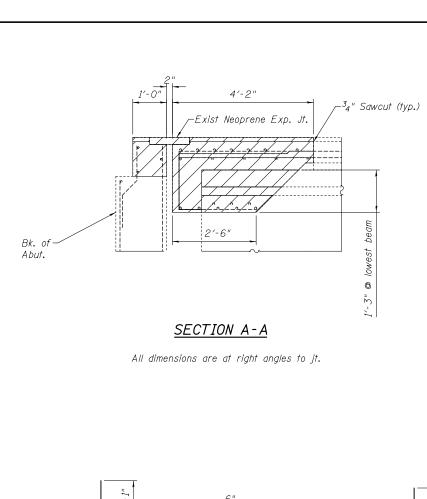
See sheet 6 of 11 for Section A-A

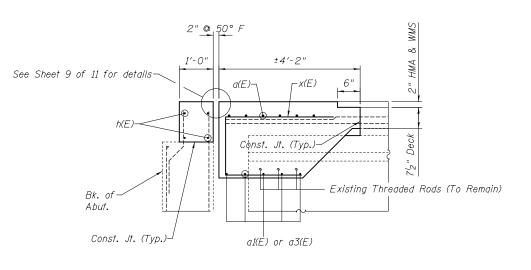
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CHECKED - DRAWN - A.Y.V.	PASSED	ENGINEER OF STRUCTURAL SERVICES	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	042–0018	325	113BR, 113BR-1	Jersey CONTRAC	33 T NO. 7	16 5 G44
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1'-11"

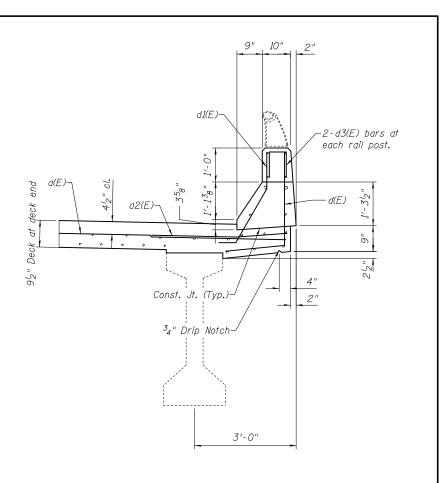


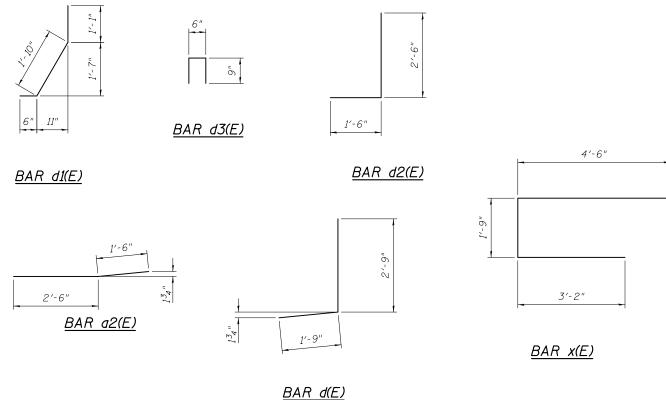




SECTION B-B

All dimensions are at right angles to jt. Bar x(E) to be placed parallel to $\mathbb Q$ of Beam





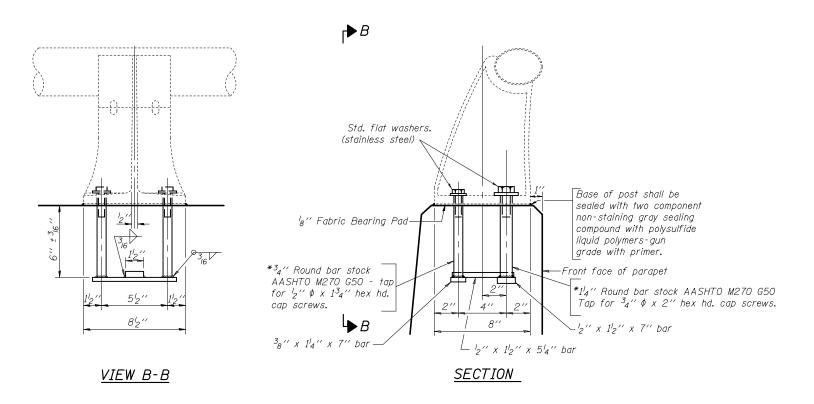
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	24	#7	32'-0"	
a1(E)	40	#6	10'-3"	
a2(E)	16	#6	4'-0"	
a3(E)	20	#6	5'-0"	
d(E)	24	#4	4'-6"	
d1(E)	8	#5	3'-5"	7
d2(E)	16	#5	4'-0"	
d3(E)	8	#4	2'-0"	
h(E)	16	#6	30′-9"	
x(E)	150	#6	9′-5"	
Concrete	Removal		Cu. Yd.	43.1
	Superstru	icture	Cu. Yd.	43.9
Reinforce	ement Bar	Lbs.	5470	
Ероху Со	area			

Reinforcement bars designated (E) shall be epoxy coated.

PARAPET SECTION

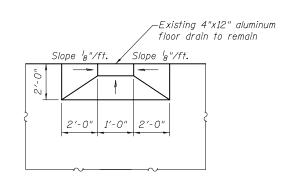
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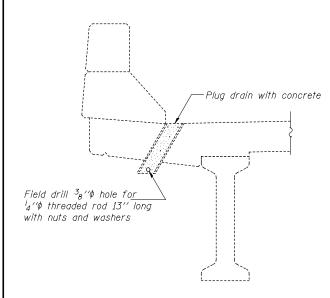
RAIL POST DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications. Cost of providing anchorages is included with Concrete Superstructure.

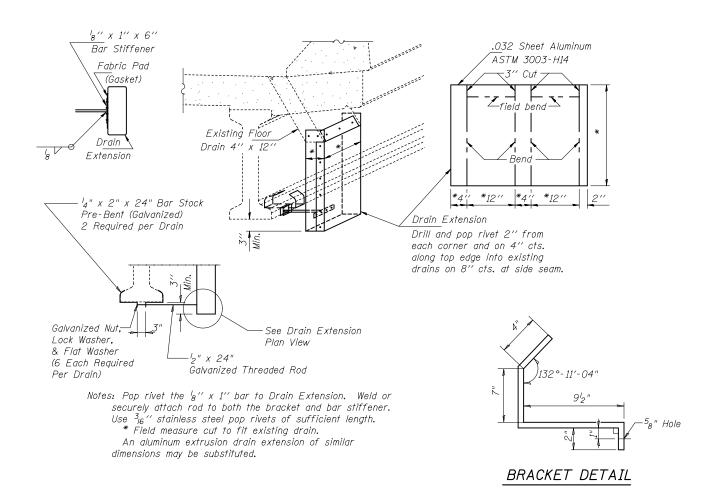
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DRAIN DETAIL

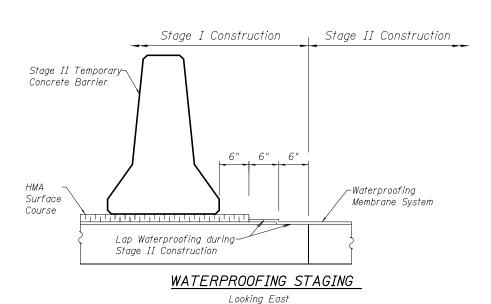


PLUG DRAIN DETAIL

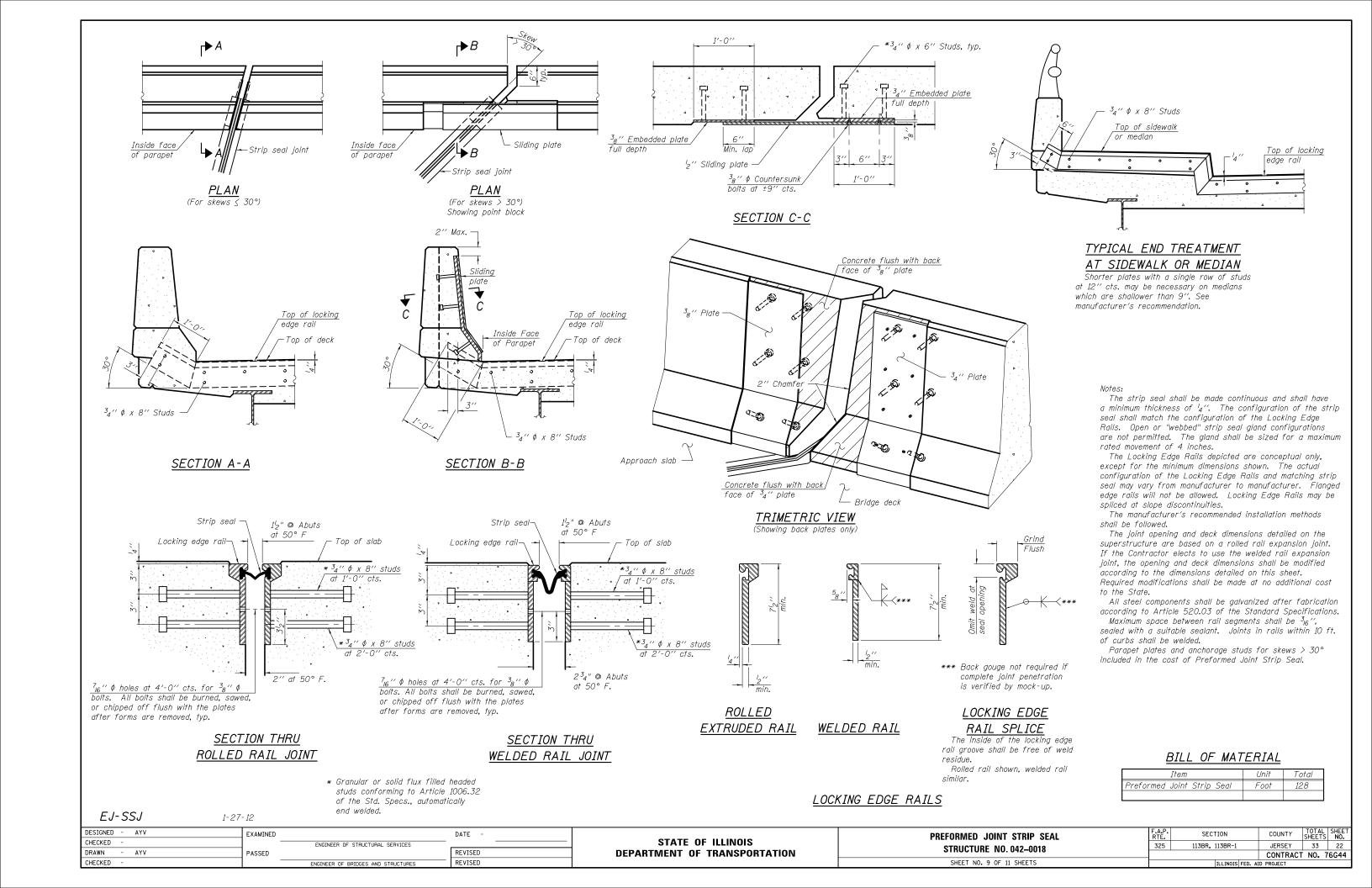


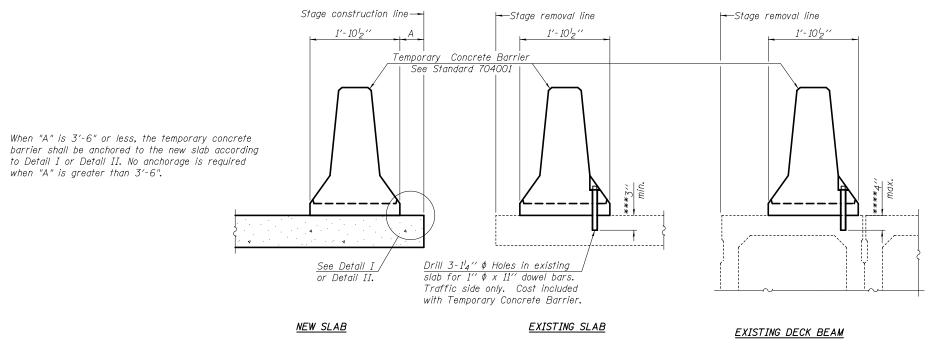
FLOOR DRAIN EXTENSION DETAIL

See sheet 1 of 11 for locations



DESIGNED - A.Y.V.	EXAMINED		DATE -	OTATE OF HAMOIG	DRAIN DETAILS & WATERPROOFING STAGING	F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
CHECKED - DRAWN - A.Y.V.	PASSED	ENGINEER OF STRUCTURAL SERVICES	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 042-0018	325	113BR, 113BR-1	JERSEY	33	21
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NOTES

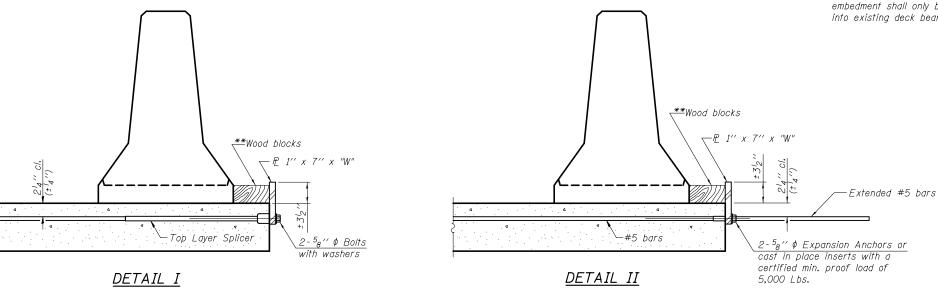
Detail I - With Bar Splicer or Couplers: Connect one (1) 1" x 7' 'x "W" steel P to the top layer of couplers with 2-58" \$\phi\$ bolts screwed to coupler at approximate & of each barrier panel.

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 2-5₈" \$\phi\$ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate € 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 to be placed.

SECTIONS THRU SLAB OR DECK BEAM

- *** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- **** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



"W" Top bars Detail I spacing Detail II *£ 1" x 1'2" Notch

STEEL RETAINER P 1" x 7" x "W"

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

* Required only with Detail II

R-27

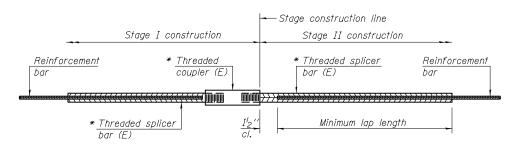
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DESIGNED - A.Y.V.	EXAMINED		DATE -	
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STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

TEMPORARY	CONCRETE	BARRIER	FOR	STAGE	CONSTRUCTION			
STRUCTURE NO. 042-0018								
	SHEET	NO. 10 OF	11 SHE	FTS		_		

F.A.P. RTE.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
325	113BR, 113BR-1		Jersey	33	23
			CONTRACT	NO. 7	6G44
	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 C

Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

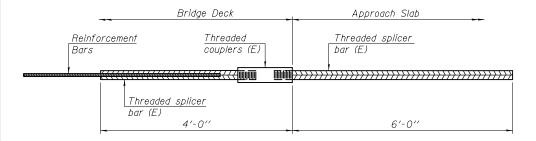
Table 5: Epoxy bar, Class C

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

Threaded splicer bar length = min. lap length + 1^{l_2} " + thread length

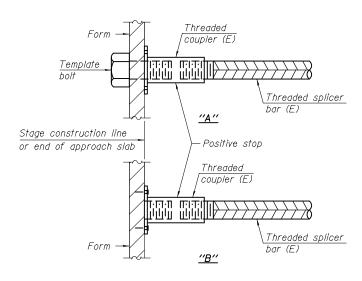
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

l ocation	Bar	No. assemblies	Table for minimum
Locarion	size	required	lap length
W Abut Hatchblock	#6	4	3
W Abut Deck (Top)	#7	6	3
W Abut Deck (Bot)	#6	5	3
E Abut Hatchblock	#6	4	3
E Abut Deck (Top)	#7	6	3
E Abut Deck (Bot)	#6	5	3



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

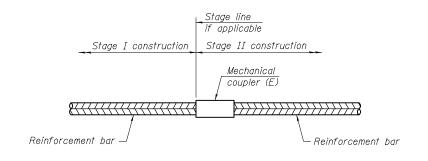
No, required =



INSTALLATION AND SETTING METHODS

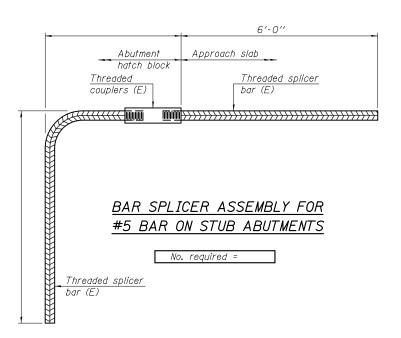
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

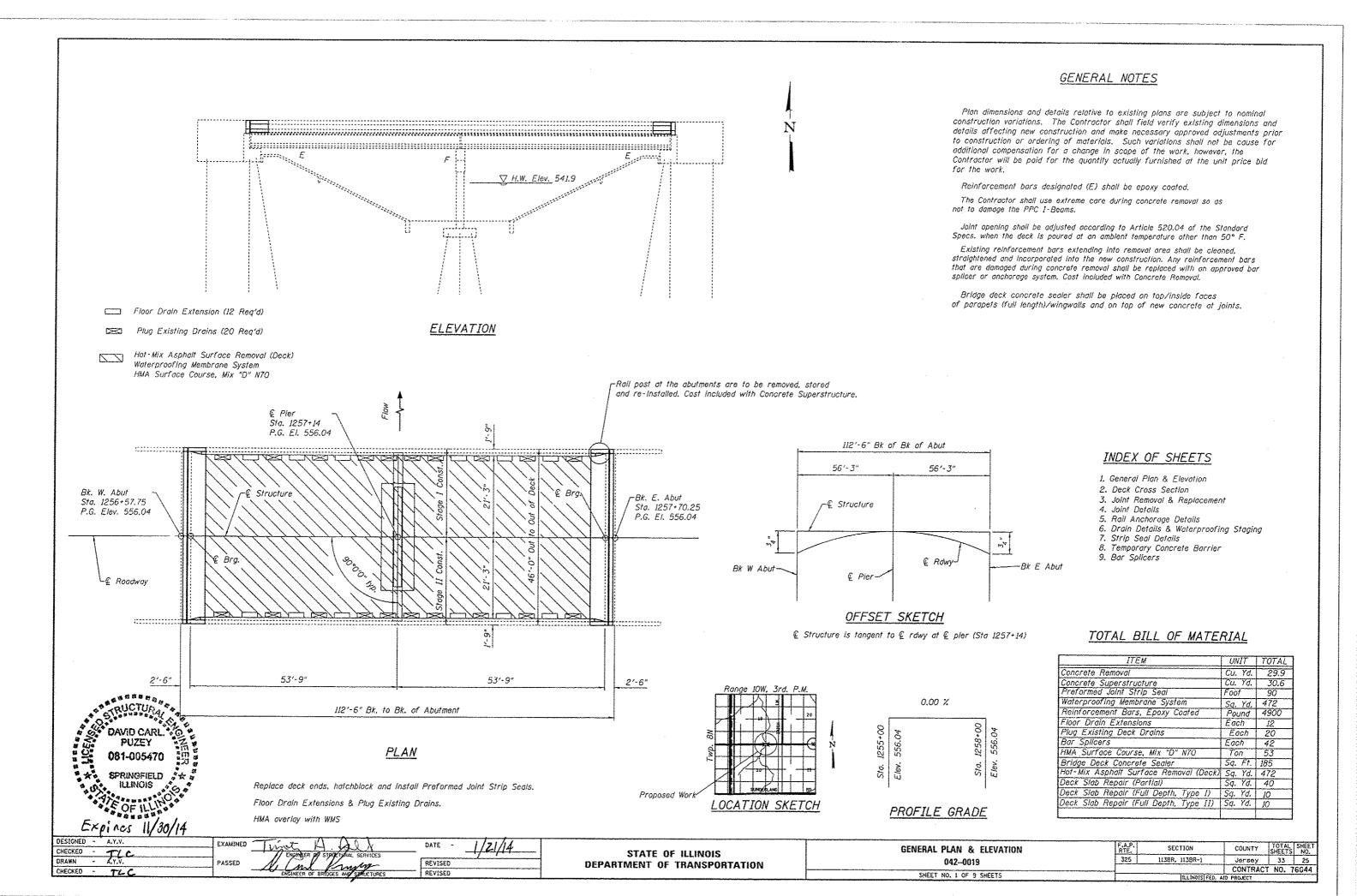
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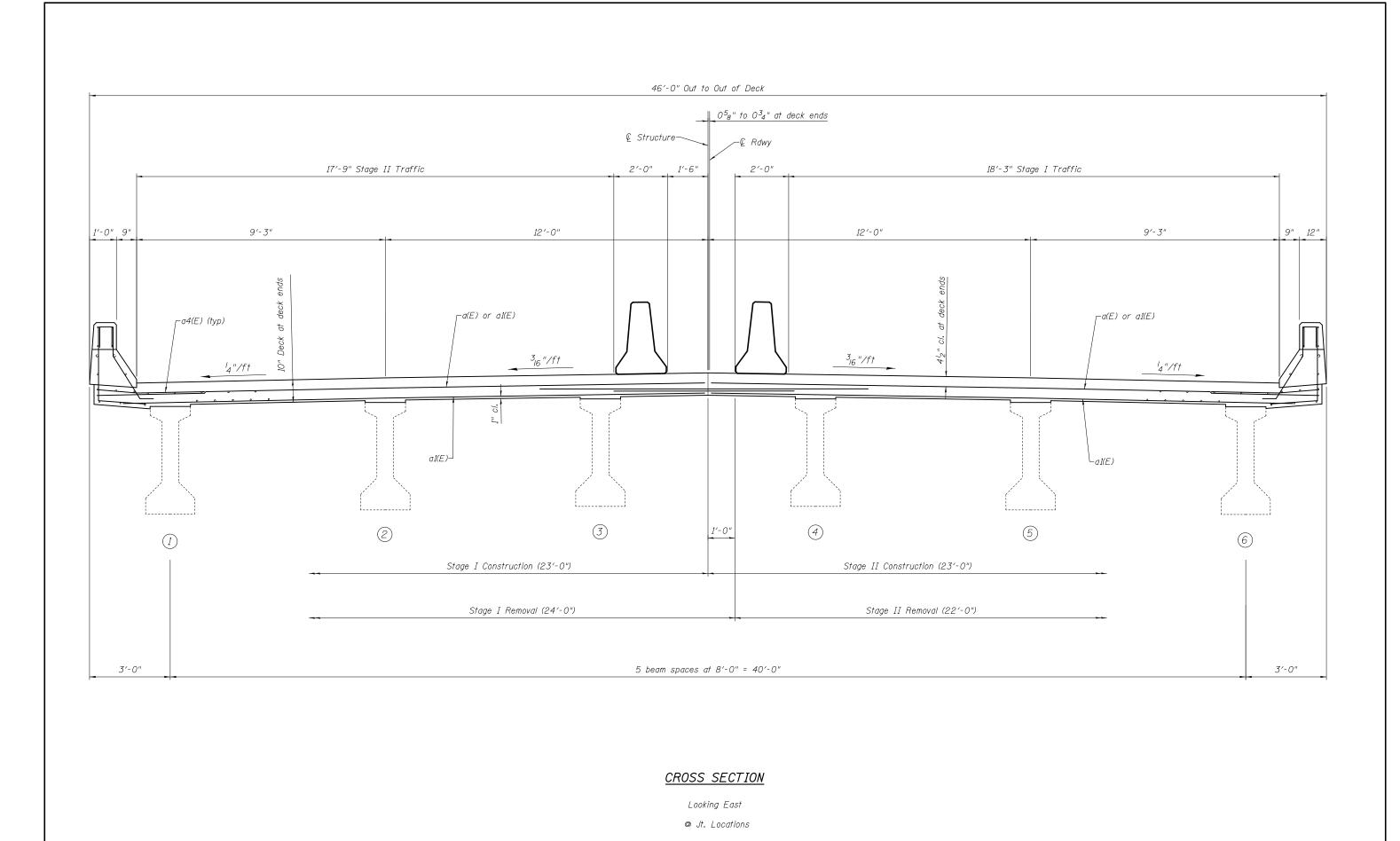
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 042-0018

SHEET NO. 11 OF 11 SHEETS





STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DESIGNED - AYV

DRAWN - AYV

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ENGINEER OF STRUCTURAL SERVICES

COUNTY TOTAL SHEET NO.

Jersey 33 26

CONTRACT NO. 76G44

F.A.P. RTE. 325

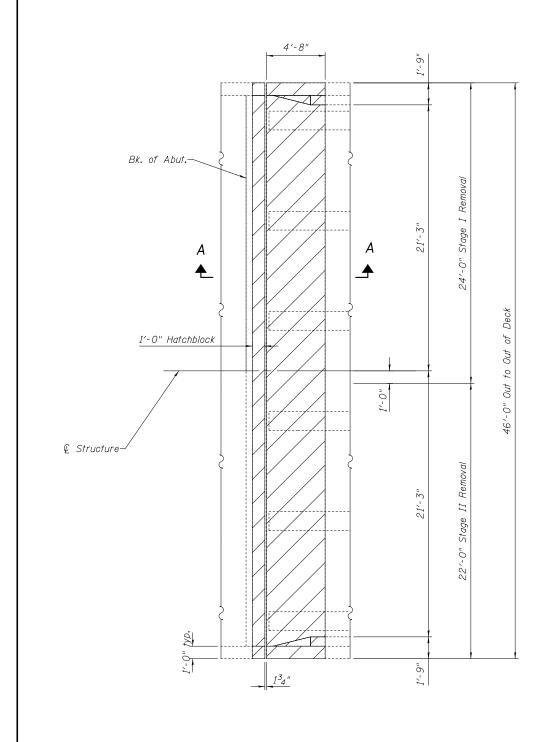
CROSS SECTION

042-0019

SHEET NO. 2 OF 9 SHEETS

SECTION

113BR, 113BR-1



CONCRETE REMOVAL

(W. Abut shown, E. Abut similar by 180° rotation)

Note

Existing reinforcement bars extending into removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

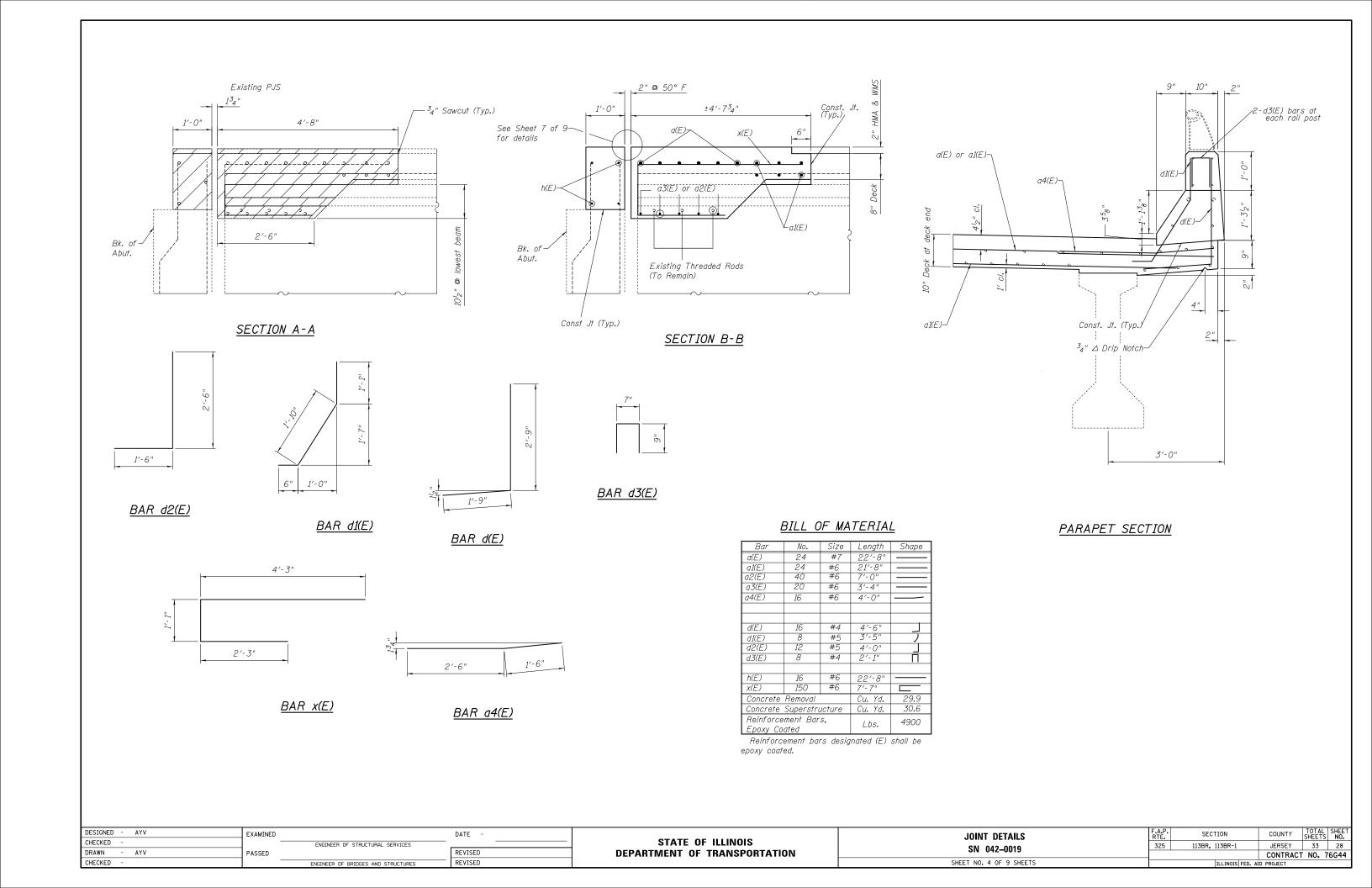
See sheet 4 of 9 for Section A-A & B-B

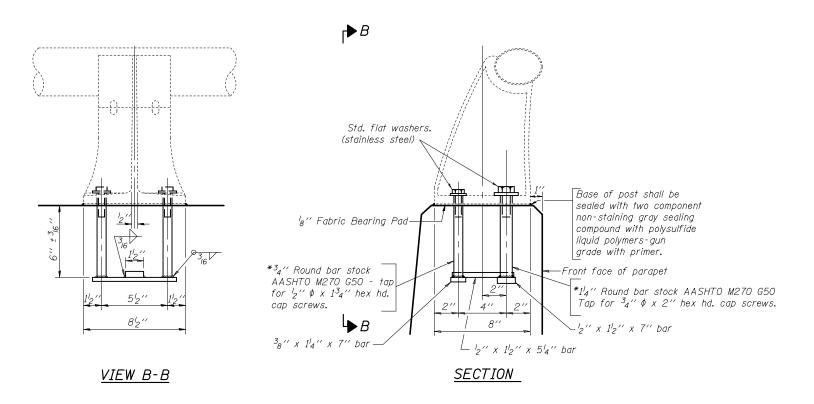
4-#4 d(E) bars @ 12" cts. O.F. (typ) 4-#6 a4(E) bars @ 16" cts. (Top) (typ) В В 6-#7a(E) bars at 6" ctrs. (Top Drop Slab) (Typ ea stage) Bk. of Abut.-2-#6 h(E) bars -3-#6a1(E) bars (Top & Bot Deck) (Typ ea stage) (Top & Bot) (Typ ea stage) 6 Bar Splicers(E) for #7a(E) bars (Top) 5-#6 a3(E) bars (Bot of drop slab © stage const line.) (Typ ea side of stage const line.) 3-Bar Splicers(E) for #6a1(E) bars (Top & Bot) 5 Bar Splicers(E) for #6a3(E) bars (Bot of drop slab) 2-Bar Splicers(E) for #6 bars (Top & Bot) ±4'-73₄" 1'-0" Hatchblock 5-#6a2(E) bars (Bot of drop slab, typ between beams, except at stage line) 2-#5 d1(E) bars @12" cts. I.F. (typ.) 3-#5 d2(E) bars @ 12" cts. I.F. (typ.) 2" @ 50°F

CONCRETE REPLACEMENT

(W. Abut shown, E. Abut similar by 180° rotation)

DESIGNED - AYV	EXAMINED	DATE -		JOINT REMOVAL & REPLACEMENT	F.A.P. SECT	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS		325 113BR, 1	113BR-1 JERSEY 33 27
DRAWN - AYV	PASSED	REVISED	DEPARTMENT OF TRANSPORTATION	SN 042-0019		CONTRACT NO. 76G44
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 3 OF 9 SHEETS	I	ILLINOIS FED. AID PROJECT

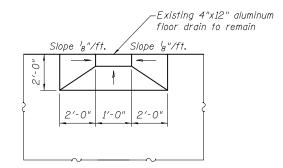




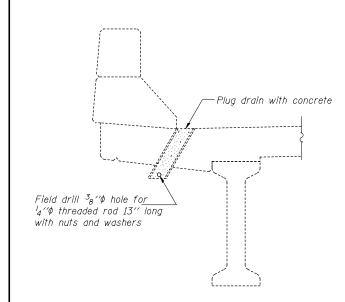
RAIL POST DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications. Cost of providing anchorages is included with Concrete Superstructure.

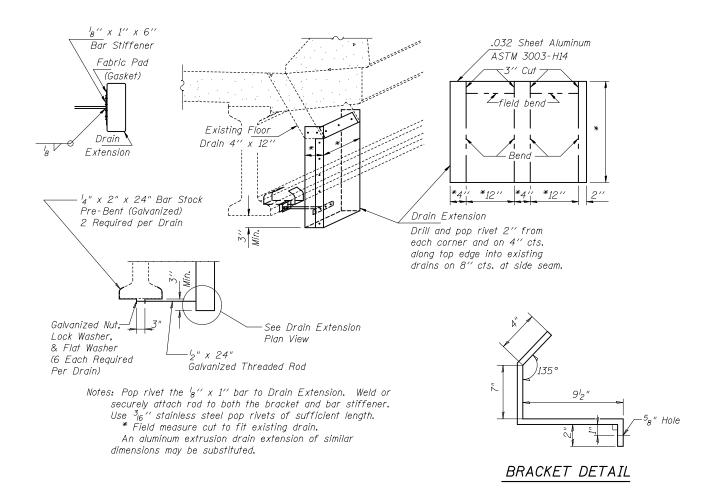
	DESIGNED - A.Y.V.	EXAMINED		DATE -		RAIL ANCHORAGE DETAILS	F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	CHECKED -	_	ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS	SN 042-0019	325	113BR, 113BR-1	JERSEY	33 29
L	DRAWN - A.Y.V.	PASSED		REVISED	DEPARTMENT OF TRANSPORTATION				CONTRAC	T NO. 76G44
	CHECKED -	_	ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 5 OF 9 SHEETS		ILLINOIS FED. AI	D PROJECT	



DRAIN DETAIL

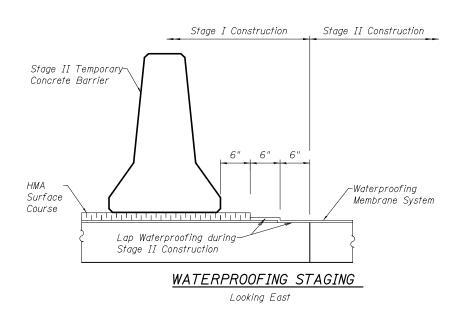


PLUG DRAIN DETAIL

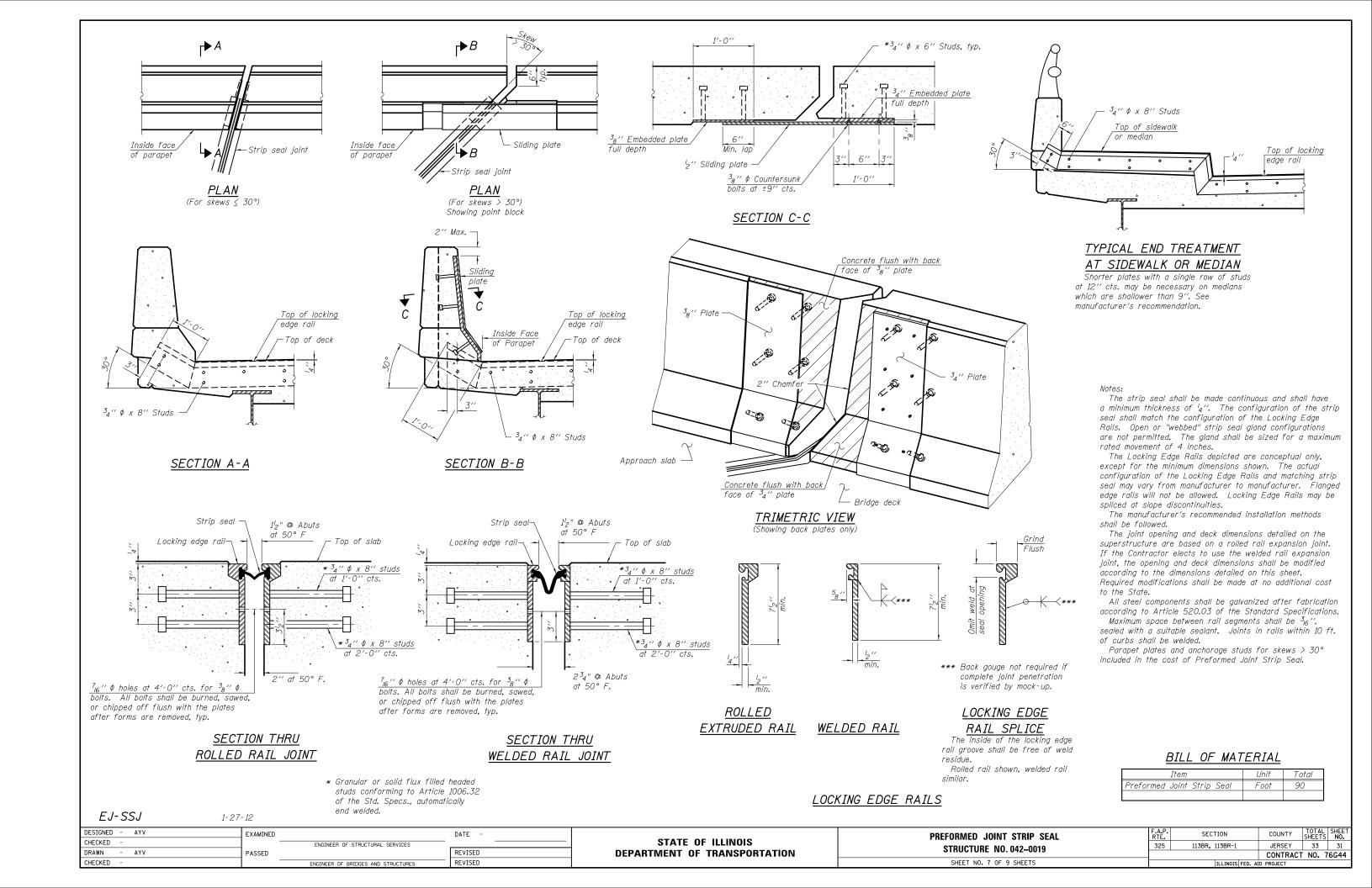


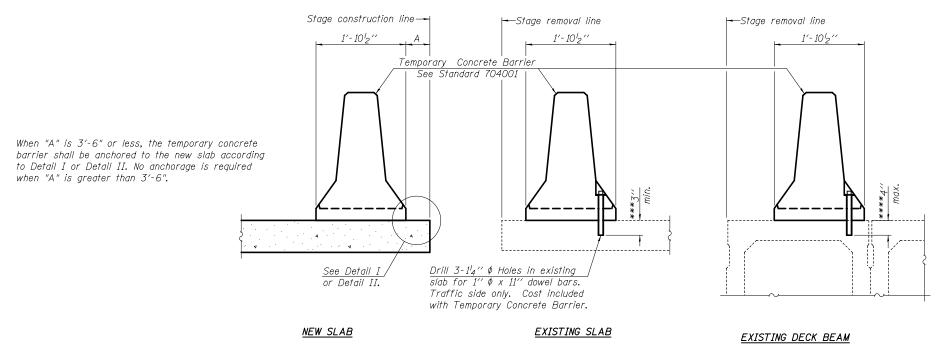
FLOOR DRAIN EXTENSION DETAIL

See Sheet 1 of 9 for locations



DESIGNED - A.Y.V.	EXAMINED	DATE -	27.77 27 11.11.012	DRAIN DETAILS & WATERPROOFING STAGING		SECTION	COUNTY	TOTAL S SHEETS	HEET NO.
CHECKED -	ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS	CN 042 0040	325 113	3BR. 113BR-1	JERSEY	33	30
DRAWN - A.Y.V.	PASSED	REVISED	DEPARTMENT OF TRANSPORTATION	SN 042-0019		,	CONTRACT	T NO. 76	G44
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 6 OF 9 SHEETS		ILLINOIS FED. AI			





NOTES

Detail I - With Bar Splicer or Couplers:

Connect one (1) $1'' \times 7' \times 'W''$ steel $\mathbb R$ to the top layer of couplers with $2^{-5}8'' \neq b$ olts screwed to coupler at approximate $\mathbb Q$ of each barrier panel.

Detail II - With Extended Reinforcement Bars:

Connect one (1) I'' x 7'' x 'W'' steel P to the concrete slab or concrete wearing surface with 2-58'' \$\phi\$

Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \$\mathbb{L}\$ of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.

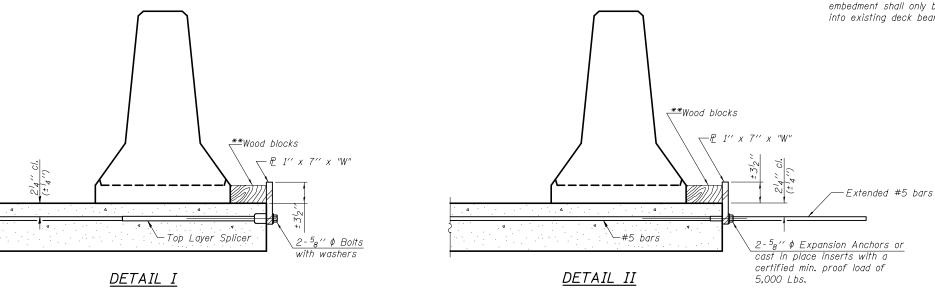
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete.

If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



Top bars
spacing
3" 3" Detail II

Let Top bars
Spacing
Top bars
Top bars
Spacing
Top bars
Top bars
Spacing
Top bars
Top ba

STEEL RETAINER P 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

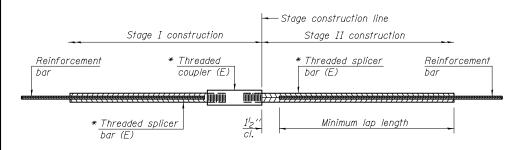
7-1-10

CHECKED -			ENGINEER OF BRIDGES AND STRUCTURES	REVISED	
DRAWN -	A.Y.V.	PASSED		REVISED	
CHECKED -			ENGINEER OF STRUCTURAL SERVICES		
DESIGNED -	A.Y.V.	EXAMINED		DATE -	

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

TEMPORARY	CONCRETE	BARRIER	FOR	STAGE	CONSTRUCTION			
STRUCTURE NO. 042-0019								
	SHEE	T NO 8 OF	9 SHE	FTS				

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
325	113BR, 113BR-1		Jersey	33	32	
			CONTRACT NO. 76G44			
	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 C

Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

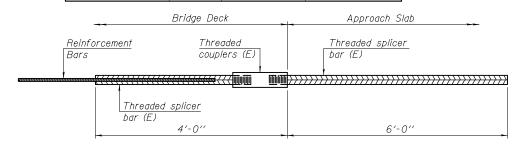
Table 5: Epoxy bar, Class C

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

Threaded splicer bar length = min. lap length + 1_2^{l} " + 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
W Abut Hatchblock	#6	4	3
W Abut End of Deck (Top)	#7	6	3
W Abut, End of deck (Except in drop slab)	#6	6	3
W Abut, End of deck (Bot of drop slab)	#6	5	3
E Abut Hatchblock	#6	4	3
E Abut End of Deck (Top)	#7	6	3
E Abut, End of deck (Except in drop slab)	#6	6	3
E Abut, End of deck (Bot of drop slab)	#6	5	3



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =

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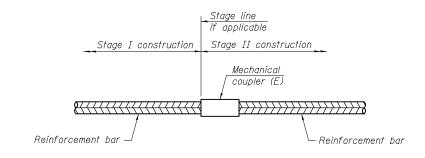
BSD-1

DESI	GNED - A.Y.V.	EXAMINED		DATE -	
CHEC	KED -		ENGINEER OF STRUCTURAL SERVICES		
DRAW	/N - A.Y.V.	PASSED		REVISED	
CHEC	KED -		ENGINEER OF BRIDGES AND STRUCTURES	REVISED	

INSTALLATION AND SETTING METHODS

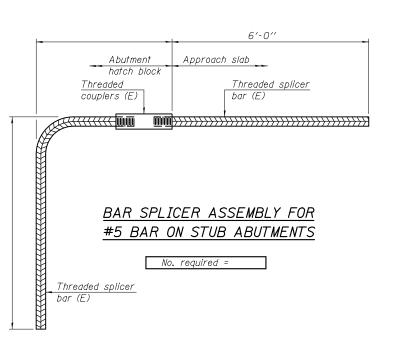
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 042–0019

SHEET NO. 9 OF 9 SHEETS