

LOCATION & DESIGNATION OF JOINTS

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84/90	2003-028F	COOK	419	160
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62580

STRUCTURE NUMBER (SN)	PIER	DESIGNATION 1 CROSS SECTIONS THRU JOINTS		EXISTING JOINT		LENGTH CONTR. TO EXP. (ft)	SKEW ANGLE (°)	PROPOSED JOINT		LENGTH OF JOINT FACE TO FACE OF PARAPET	DESIGNATION 2 STAGED AND NON STAGED CONSTRUCTION
		EXISTING	PROPOSED	TYPE	SIZE			TYPE	"A"		
016-0137	7	6	1	Neoprene	4"	232'-4 7/8"	0°0'0"	①	2 1/2"	83'-2 1/8"	F
	11	6	1	Neoprene	4"	286'-0"	0°0'0"	①	2 1/2"	77'-6 1/8"	F
	15	6	1	Neoprene	4"	315'-0"	0°0'0"	①	2 1/2"	75'-11 1/8"	F
	19	6	1	Neoprene	4"	214'-0"	0°0'0"	①	2 1/2"	90'-2 3/4"	F,E
	23	5	7	Neoprene	2 1/2"	199'-0"	0°0'0"	①	2 1/2"	95'-9 1/8"	F
016-1110	N. Abut.	3	5	PJS	2 1/2"	57'-0"	0°0'0"	③	1 1/2"	96'-8 3/8"	F
	1 (Ramp)	6	1	Neoprene	4"	269'-0"	0°0'0"	①	2 1/2"	22'-0"	A
	1 (Mainline)	FPJ	-	Finger Plate	4 1/2"	404'-0"	0°0'0"	-	-	-	-
	Span 2 - Joint 'A'	8	6	PJS	2 1/2"	FIXED	0°0'0"	②	1"	22'-0"	A
	Span 2 - Joint 'B'	9	6	Neoprene	2"	92'-0"	0°0'0"	④	2 3/4"	22'-0"	A
016-1111	4	FPJ	-	Finger Plate	4 1/2"	348'-4"	0°0'0"	-	-	-	-
	1	1	1	PJS	2 1/2"	FIXED	0°0'0"	②	1"	68'-0 1/4"	F
	2	FPJ	-	Finger Plate	4 1/2"	359'-4"	0°0'0"	-	-	-	-
	7	FPJ	-	Finger Plate	4 1/2"	418'-5"	0°0'0"	-	-	-	-
	E5 Abut.	6	3	Neoprene	2"	168'-4"	0°0'0"	①	2 1/2"	22'-0"	C
016-1112	E8	6	1	Neoprene	2 1/2"	242'-0"	0°0'0"	①	2 1/2"	22'-0"	C
	11	6	1	PJS	2 1/2"	FIXED	0°0'0"	②	1"	55'-1 1/8"	F
	12	6	1	Neoprene	2 1/2"	182'-2"	2°40'12"	①	2 1/2"	55'-4"	D
	14	6	1	Neoprene	2 1/2"	180'-0"	0°30'0"	①	2 1/2"	55'-2 1/2"	D
	15	6	1	Neoprene	4"	172'-0"	0°10'12"	①	2 1/2"	54'-11"	D
	19	6	1	Neoprene	4"	256'-0"	0°0'0"	①	2 1/2"	53'-6 1/2"	F
	21	1	1	PJS	4"	84'-0"	0°0'0"	④	2 3/4"	88'-5 5/8"	F
	22	6	1	Neoprene	4"	183'-0"	42°55'48"	①	2 1/2"	117'-11 1/4"	I
	26	6	1	Neoprene	4"	273'-3"	41°25'48"	①	2 1/2"	103'-4 1/2"	I
	28	1	1	PJS	2 1/2"	FIXED	1°33'0"	②	1"	79'-1 1/8"	D
	29	6	1	Neoprene	2 1/2"	188'-4"	1°24'0"	①	2 1/2"	76'-1 3/8"	D
	31	6	1	Neoprene	2 1/2"	188'-2"	0°0'0"	①	2 1/2"	71'-0 3/8"	F
	C13	6	1	Neoprene	2"	155'-0"	0°0'0"	①	2 1/2"	38'-0"	F
	C14	1	1	PJS	2 1/2"	80'-0"	0°0'0"	④	2 3/4"	38'-0"	F
	C15	4b	4	PJS	2 1/2"	78'-0"	0°0'0"	④	2 3/4"	38'-0"	F
	C16	7	4	PJS	4"	95'-0"	1°34'48"	④	2 3/4"	38'-0 1/8"	E
	C17	4b	4	PJS	2 1/2"	FIXED	2°15'0"	②	1"	38'-1 1/4"	E
	C18	4b	4	PJS	4"	95'-0"	0°0'0"	④	2 3/4"	38'-3 1/8"	F
	C19	1	1	PJS	4"	88'-0"	0°43'12"	④	2 3/4"	38'-0"	E
	C20	6	1	Neoprene	4"	168'-0"	2°7'48"	①	2 1/2"	35'-0 3/8"	D
D12	1	1	Neoprene	2 1/2"	160'-0"	0°0'0"	①	2 1/2"	36'-5 9/16"	C	
D14 Abut.	2	3	PJS	2 1/2"	80'-0"	0°0'0"	④	2 3/4"	27'-11 3/8"	C	
016-1113	1	FPJ	-	Finger Plate	4 1/2"	464'-6"	16°22'48"	-	-	-	-
	3	6	1	Neoprene	2 1/2"	187'-2"	0°0'0"	①	2 1/2"	63'-7"	F
	5	6	1	Neoprene	2 1/2"	187'-2"	0°0'0"	①	2 1/2"	74'-0 1/4"	F
	7	6	1	Neoprene	2 1/2"	187'-2"	0°0'0"	①	2 1/2"	84'-0 1/8"	F
	8	6	1	PJS	4"	93'-7"	0°0'0"	④	2 3/4"	94'-8 1/8"	F
	9	1	1	PJS	2 1/2"	FIXED	0°0'0"	②	1"	60'-0 5/8"	F
	10	6	1	Neoprene	4"	245'-2"	0°0'0"	①	2 1/2"	57'-11"	F
	11	1	1	PJS	2 1/2"	FIXED	0°0'0"	②	1"	55'-0 1/2"	F
	C3	6	1	Neoprene	2 1/2"	241'-8"	3°40'12"	①	2 1/2"	35'-3 1/2"	D
	C6	1	1	PJS	2 1/2"	146'-11"	0°0'0"	①	2 1/2"	88'-6"	F
	C7	6	1	Neoprene	2"	156'-7"	0°0'0"	①	2 1/2"	40'-10 3/8"	F
	C10	FPJ	-	Finger Plate	4 1/2"	333'-6"	0°0'0"	-	-	-	-
	D7	6	1	Neoprene	2 1/2"	84'-0"	2°1'48"	④	2 3/4"	30'-8 3/8"	E
	D8	1	1	PJS	4"	84'-0"	2°33'0"	④	2 3/4"	21'-11 1/8"	A
	D9	1	1	PJS	2 1/2"	125'-0"	1°18'0"	④	2 3/4"	48'-6 3/8"	A
D10	6	1	Neoprene	4"	115'-2"	1°18'0"	④	2 3/4"	43'-6 5/8"	A	
016-1114	22	6	1	Neoprene	4"	148'-7"	15°49'12"	①	2 1/2"	92'-8 3/4"	D
	1	6	1	Neoprene	4"	162'-4"	0°0'0"	①	2 1/2"	79'-6 1/2"	F
016-1115	5	6	1	Neoprene	4"	281'-0"	0°0'0"	①	2 1/2"	60'-0"	F
	8	4b	4	PJS	2 1/2"	118'-9"	0°0'0"	④	2 3/4"	57'-4 1/4"	F
	9	6	1	Neoprene	2"	150'-4 1/2"	0°43'12"	①	2 1/2"	55'-9 1/8"	E
	10	1	1	PJS	4"	80'-3"	2°48'0"	④	2 1/4"	54'-5 1/2"	E
	12	4b	4	PJS	4"	80'-3"	9°40'12"	④	2 3/4"	55'-8 5/8"	E
	13	7	4	Neoprene	2"	80'-3 1/2"	13°22'12"	④	2 3/4"	56'-5 1/8"	E
	14	7	4	Neoprene	2"	80'-3 1/2"	16°58'12"	④	2 3/4"	57'-5 1/8"	E
	15	6	1	Neoprene	2"	80'-3"	20°39'0"	④	2 3/4"	58'-9 1/8"	E
	16	6	1	Neoprene	2 1/2"	134'-0"	3°37'12"	①	2 1/2"	54'-11 1/8"	D
	18	6	1	Neoprene	2 1/2"	183'-6"	4°7'48"	①	2 1/2"	55'-0 1/4"	D
	20	6	1	Neoprene	2 1/2"	178'-5"	15°27'0"	①	2 1/2"	57'-0 1/8"	D
	21	1	1	PJS	2 1/2"	147'-9"	11°45'0"	①	2 1/2"	55'-11 1/8"	D
	016-1116	3	7	4	Neoprene	4"	58'-3"	18°36'0"	③	1 3/4"	81'-2 1/8"

Notes:  
 Dimension "A" indicates joint opening at 50°F  
 Joints indicated as "Strip Seal Expansion Joint Assembly" shall be strip seal only.  
 For existing and proposed sections thru joints for Designation 1, see sheets 162 and 163.  
 For existing and proposed plans for Designation 2, staged and non-staged construction, see sheets 164 to 166.  
 The dimensions for the length of the joints are given from face to face of parapet.  
 For exact dimensions of the joints per stage see Partial Plan Sheets 143 to 159.  
 For dimensions of Finger Plate Joints see Plan Detail Sheets 179 to 235.

BOWMAN, BARRETT & ASSOCIATES INC.  
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- ① Strip Seal Expansion Joint Assembly
- ② Bridge Joint System (Fixed)
- ③ Bridge Joint System (Expansion), 1"
- ④ Bridge Joint System (Expansion), 1 5/8"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 NB DAN RYAN ELEVATED BRIDGE  
 REPAIR FROM 15TH TO 28TH STREETS  
 LOCATION AND  
 DESIGNATION OF JOINTS 1  
 SCALE: N/A  
 DATE: 8/12/2005  
 DRAWN BY: BDC  
 CHECKED BY: BLU

8/11/2005