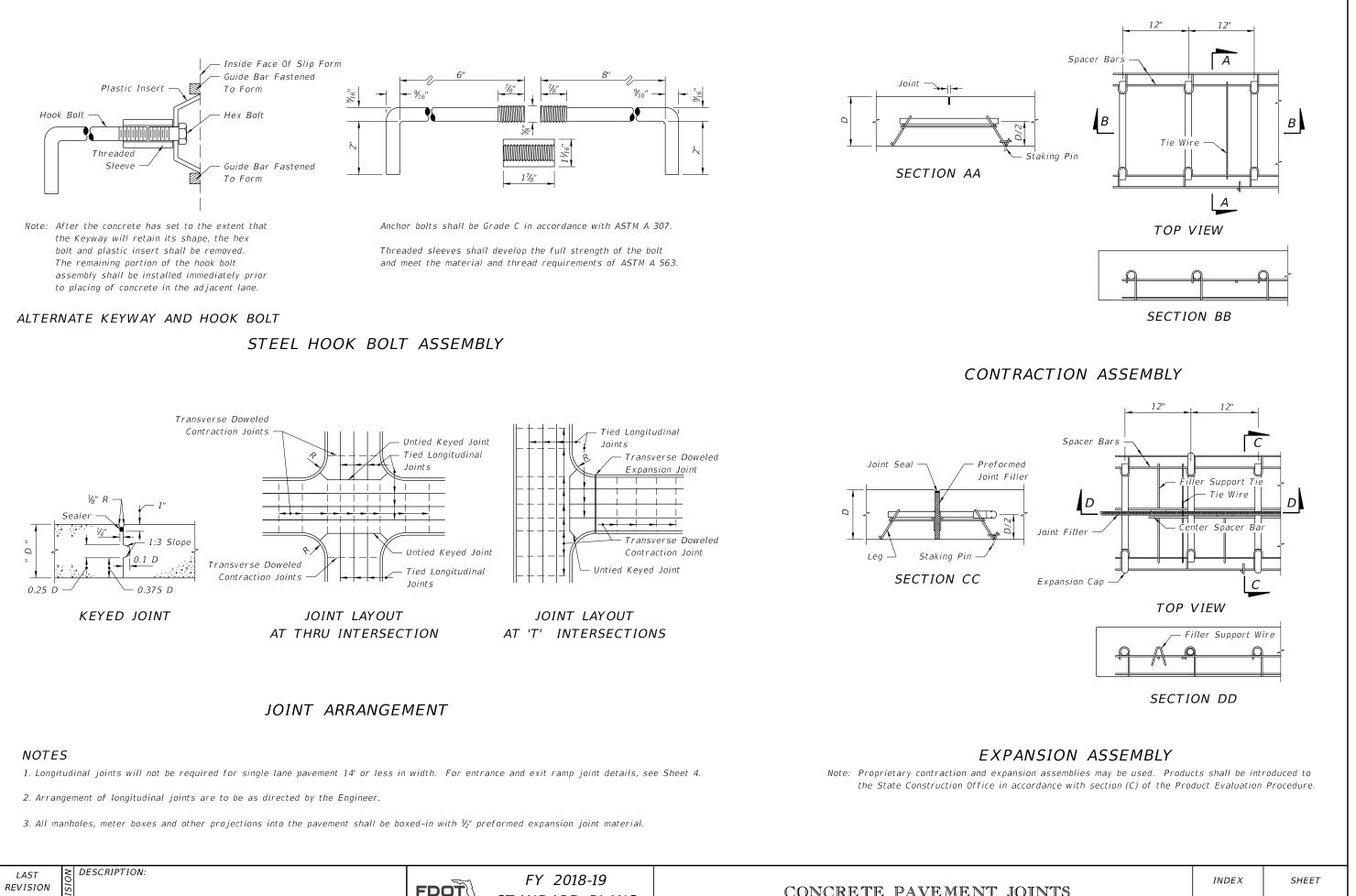


JOINT DIMENSIONS (INCHES)SEALANT BEAD THICKNESSBACKER ROD DIA.MINIMUM JOINT DEPTHBACKER RG PLACEMEN DEPTH $\frac{1}{4}$ $\frac{3}{8}$ 1 $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{8}$ 1 $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{8}$ 1 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{5}{8}$ $1\frac{1}{4}$ $\frac{1}{2}$ $\frac{5}{16}$ $\frac{3}{4}$ $1\frac{1}{2}$ $\frac{9}{16}$ $\frac{3}{8}$ 1 $1\frac{3}{4}$ $\frac{5}{8}$	BACKER ROD BOND BREAKER					
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BEAD THICKNESS BACKER ROD DIA. JOINT DEPTH PLACEMEN DEPTH ¼ ¾ 1 ½ ¼ ¾ 1 ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ¾ 1½ % ¾ 1 ½ %	JOINT	DIMENSION	IS (INCHES)			
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	⁵ /16	3/4	11/2	9/16		
7_{16} 1_{8} 1_{34} 1_{16}	3/8	1	1¾	5/8		
	7/ ₁₆	1 1/8	1¾	11/ ₁₆		
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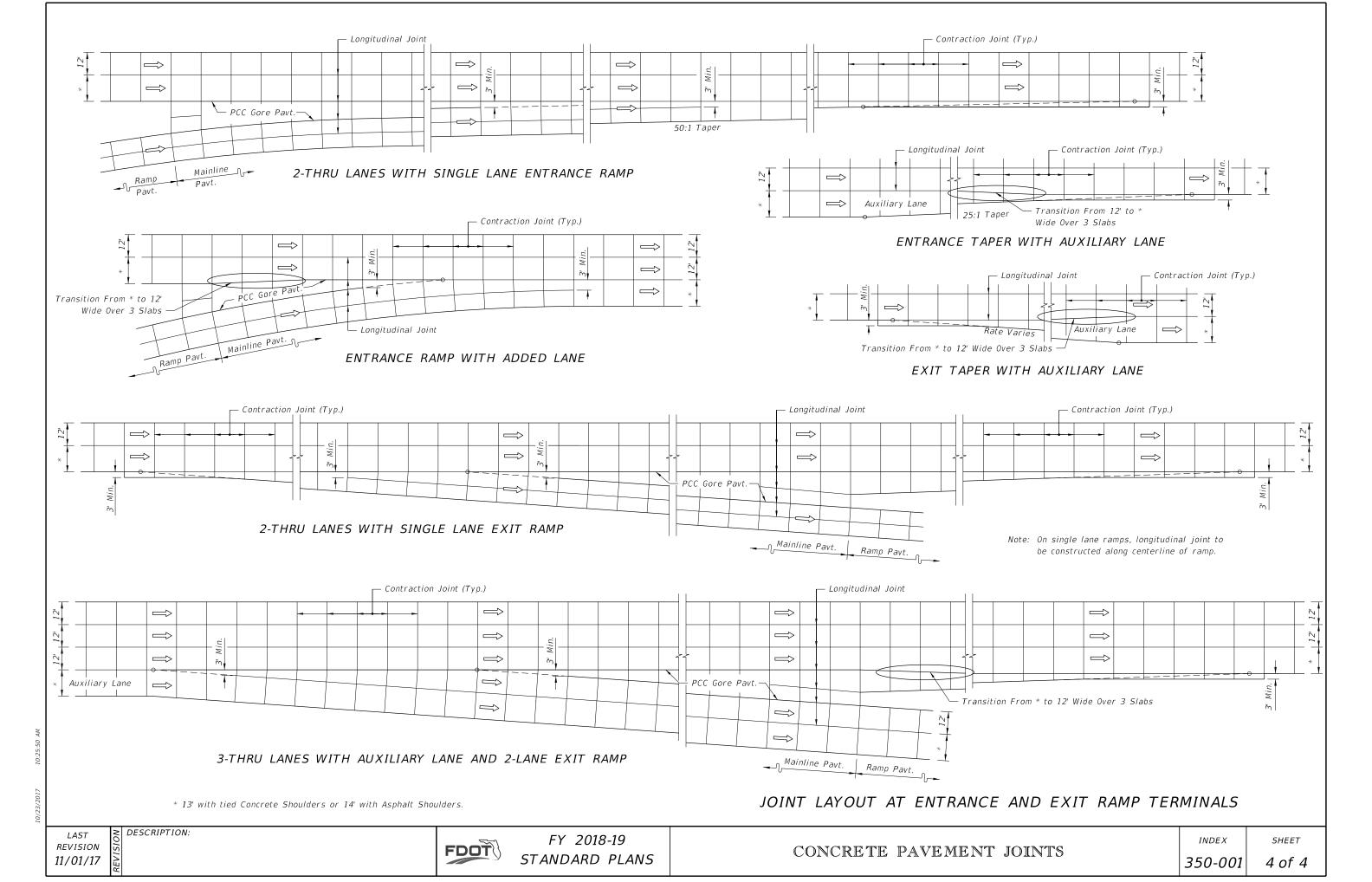


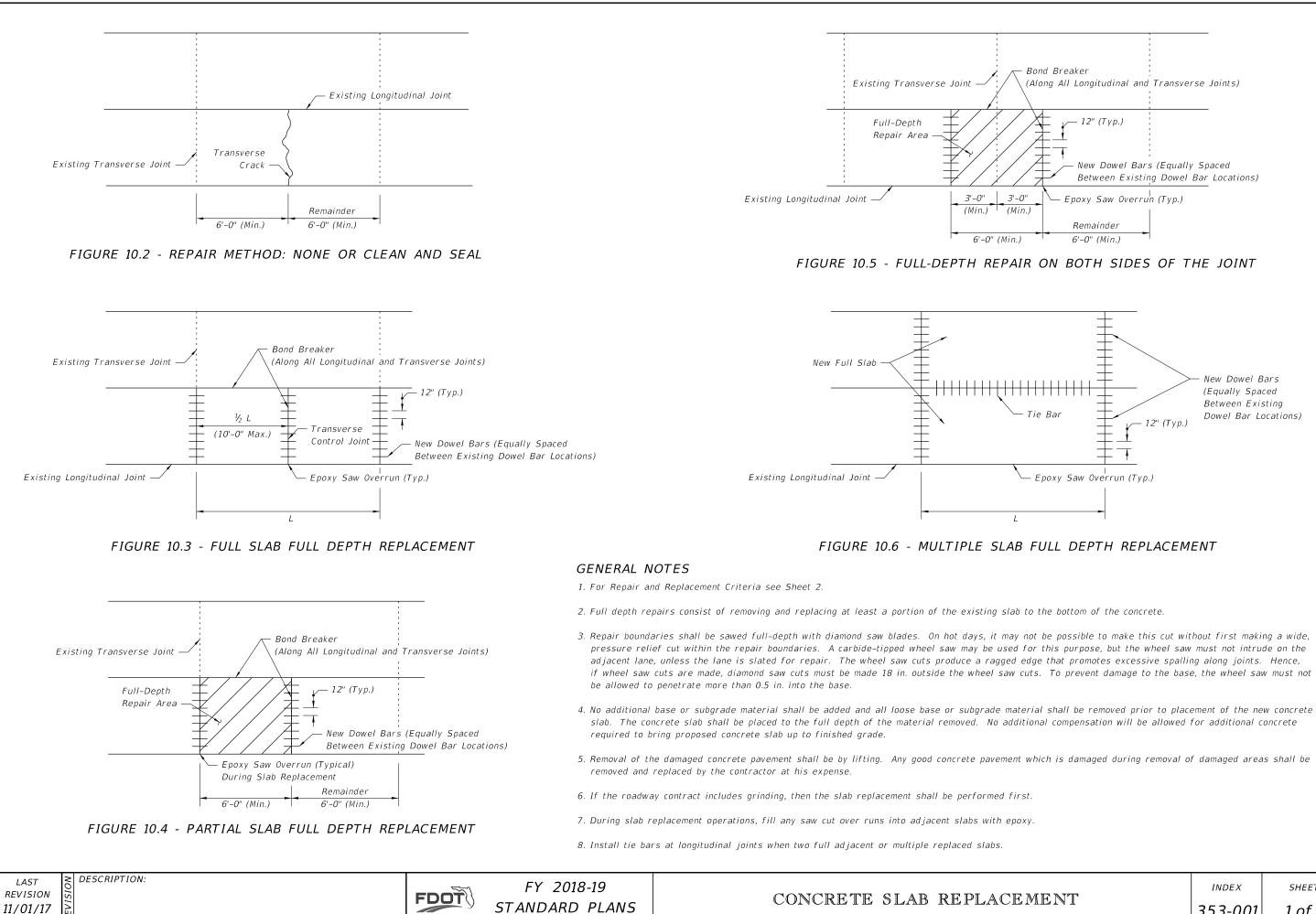
STANDARD PLANS

CONCRETE PAVEMENT JOINTS

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SLAB REPAIR AND REPLACEMENT CRITERIA

DISTRESS PATTERN		SEVERITY/DESCRIPTION	REPAIR METHOD	REF
CRACKING				
	Light $< \frac{1}{3}$ ", no faulting, spalling $< \frac{1}{2}$ " wide		None	Fi
Longitudinal	Moderate	$\frac{\eta_{g^{\prime\prime}}}{\eta_{g^{\prime\prime}}}$ <width <<math="">\frac{\eta_{2}}{\eta_{2}}, spalling <3" wide</width>	Clean and Seal	Fi
	Severe	width > $\frac{1}{2}$ ", spalling >3" faulting > $\frac{1}{2}$ "	Replace	Fi
	Light	<%", no faulting, spalling < $\frac{1}{2}$ " wide	None	Fi
Transverse	Moderate	$\frac{1}{8}$ " <width <<math="">\frac{1}{2}", spalling <3" wide</width>	Clean and Seal	
	Severe	width > $\frac{1}{2}$ ", spalling >3" faulting > $\frac{1}{2}$ "	Replace	Figure 10
Corner Breaks	adjacent lo	the slab is separated by a crack that intersects the ngitudinal and transverse joint, describing an approximate ith the direction of traffic.	Full Depth	Figure
Intersecting Random Cracks (Shattered Slab)	Cracking pa	tterns that divide the slab into three or more segments.	Full Depth	Figure
JOINT DEFICIENCIES				
	Light	spall width $<11^{1}$, $<1^{1}$, $<1^{3}$ slab depth, $<12^{"}$ in length	None	Figure
Spall Nonwheel Path	Moderate	$1^{1}/_{2}^{"}$ <spall <="" <3",="" <math="" width="">1^{\prime}/_{3} slab depth, <12" in length</spall>	None	Figure
	Severe	spall width >3" or length >12"	Full Depth	Figure
	Light	spall width <1½", <than <math="">\frac{1}{3} slab depth, <12" in length</than>	None	Figure
Spall Wheel Path	Moderate	$1^{1}/_{2^{"}}$ <spall <="" <3",="" <math="" width="">\frac{1}{3} slab depth, <12" in length</spall>	Full Depth	Figure
	Severe	spall width >3" or length >12"	Full Depth	Figure
SURFACE DETERIORATIO	N			
Pop Outs Nonwheel Path				
	Light	Not deemed to be a traffic hazard	Keep under observation	
	Severe	Flying debris deemed a traffic hazard	Full Depth	Fi
Pop Outs Wheel Path		s of surface pavement broken loose, normally er and 2" in depth.		
	Light	Deemed to be a traffic hazard	Full Depth	Fi
	Severe	Flying debris deemed a traffic hazard	Full Depth	Fi
ISCELLANEOUS DISTRES	55			
	Elevation d	ifferences across joints or cracks.		
Faulting	Light	Faulting <4/32"	None	
Faulting	Moderate	4 <faulting 32"<="" <16="" td=""><td>Grind</td><td></td></faulting>	Grind	
	Severe	Faulting >16/32"	Grind	
	Light	0 < drop-off < 1"	None	
lane To Shoulder Dron-Off	Moderate	1" <drop-off <3"<="" td=""><td>Build Up</td><td></td></drop-off>	Build Up	
Lane To Shoulder Drop-Off	Severe	drop-off >3 "	Build Up	
Water Bleeding Or Pumping		ejection of water through joints or cracks.	Install appropriate drainage, edge drain, permeable subbase, reseal joints, etc.	
	Upward movement at transverse joints or cracks often accompanied by shattering of the concrete.			

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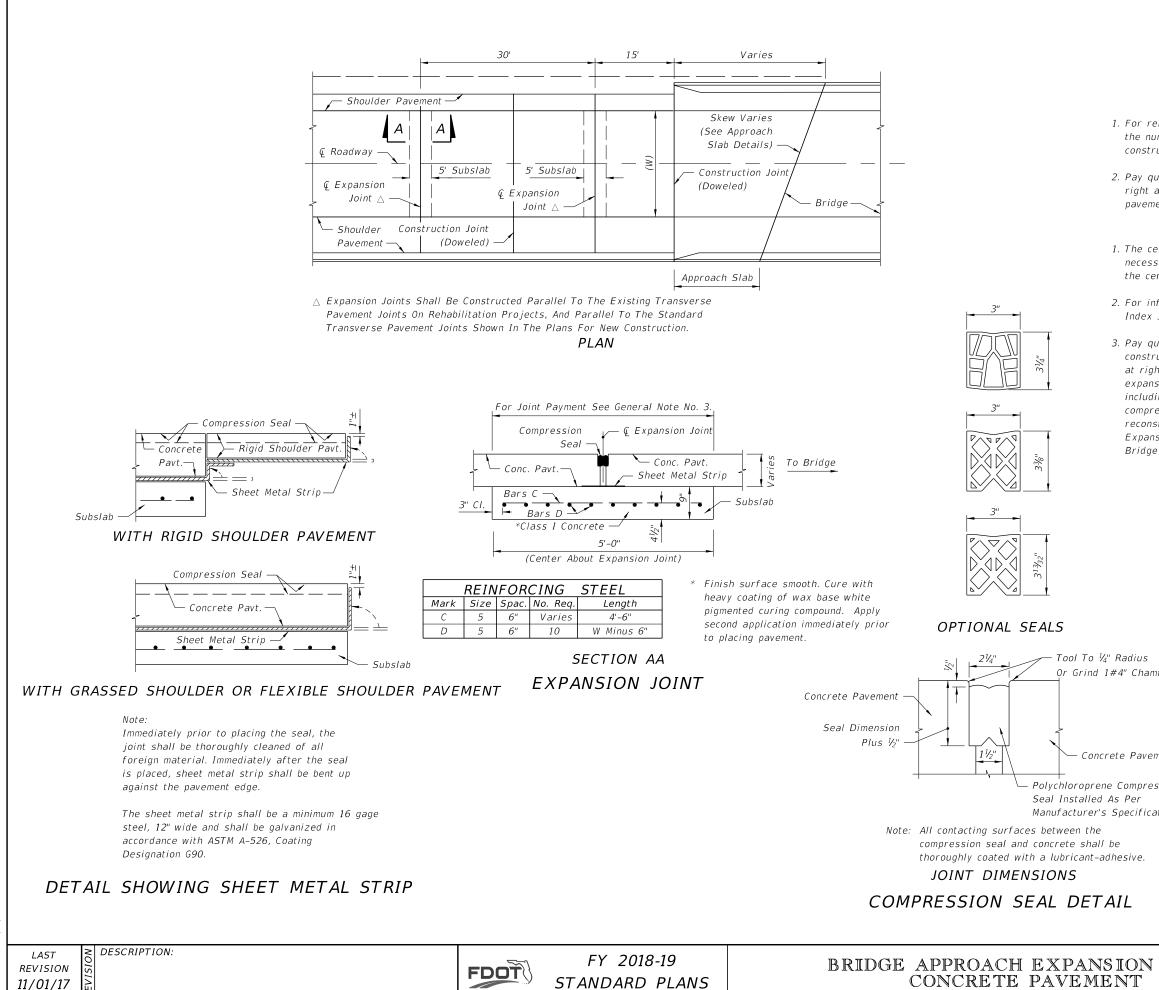
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T DESCRIPTION:



CONCRETE SLAB REPLACEM

REFERENCE		
Figure 10.2		
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Figure 10.3		
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DESIGN NOTES

1. For rehabilitation projects, the designer must indicate in the plans the number of slabs to be removed, the number of subslabs to be constructed/reconstructed, and the location of expansion joints.

2. Pay quantity of expansion joint to be calculated across pavement at right angles to the centerline of the roadway pavement. Shoulder pavement joint included.

GENERAL NOTES

1. The centerline of roadway and the centerline of bridge do not necessarily coincide. Prior to the placement of the expansion joint, the centerline of the roadway pavement shall be determined.

2. For information on other types of concrete pavement joints see Index 350-001.

3. Pay quantity for expansion joint is the length of joint to be constructed across the roadway and shoulder pavements, measured at right angles to the centerline of the roadway. Payment for expansion joint shall be full compensation for joint construction, including reinforced concrete subslab, sheet metal strip and compression seal, but, not including roadway pavement reconstruction associated with joint replacement or reconstruction. Expansion joint to be paid for under the contract unit price for Bridge Approach Expansion Joint, LF.

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