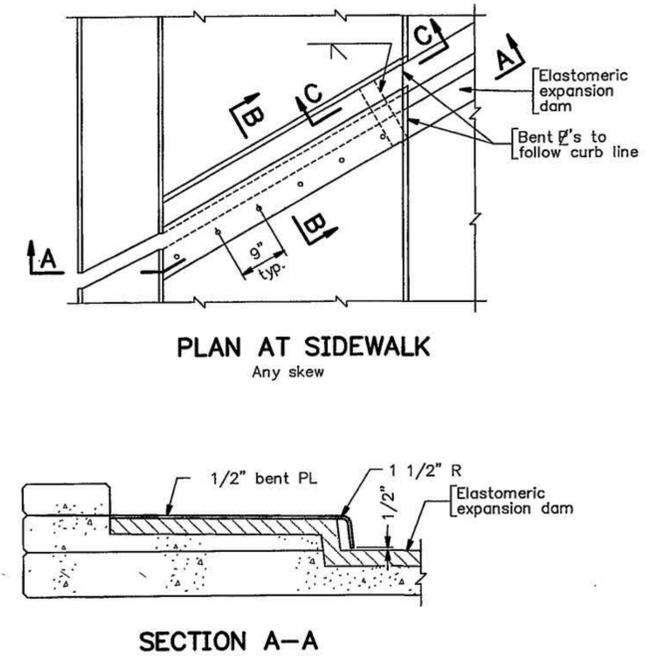
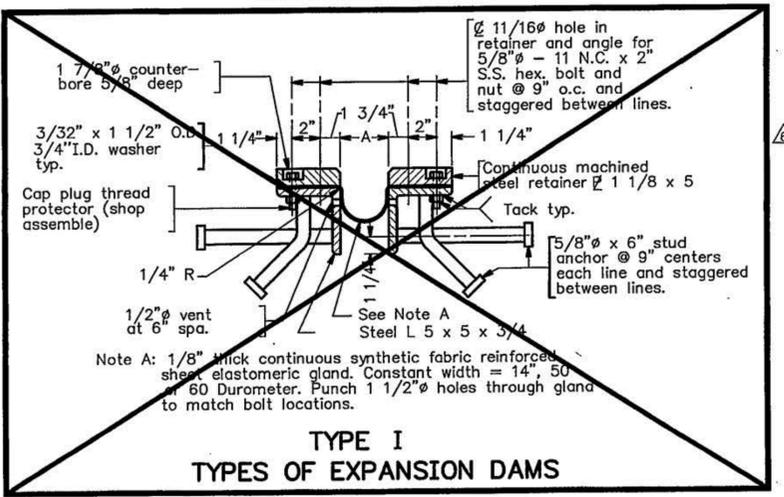
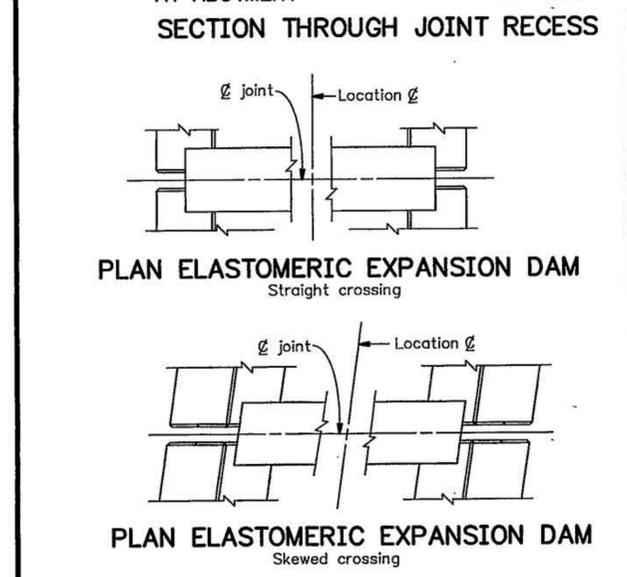
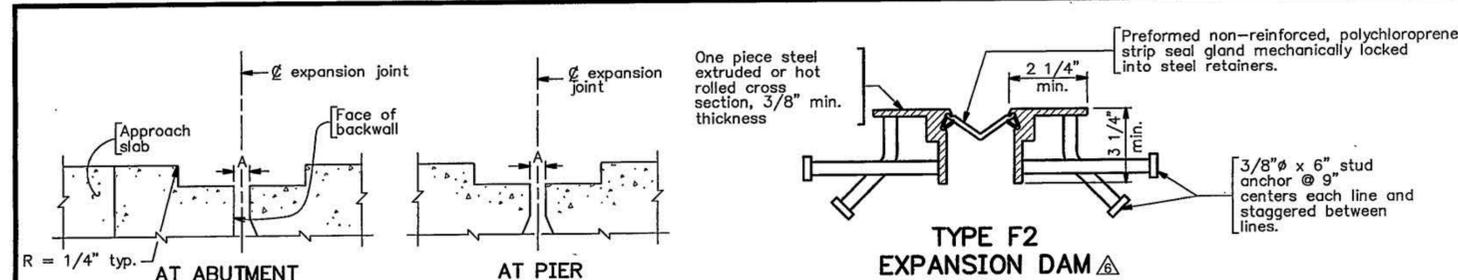


Route 11 (Williamson Road) over NS Railway, Shen Ave, and Norfolk Avenue



Notes:

Shop drawings of the type of dam(s) selected and corresponding slab opening(s) and anchor details shall be submitted to the Engineer for review in accordance with these details and Section 105.02 of the Specifications.

Top of dam shall be set below top of slab in accordance with manufacturer's recommendation or 1/8", whichever is greater.

Concrete shall be placed beneath the dam in such a manner as to prevent the formation of air pockets in the concrete.

All bolts, nuts and washers shall be ASTM A276, Type 304 stainless steel.

Non-stainless ferrous metal shall be ASTM A709M Grade 250 and shall be painted in accordance with Section 411 of the Specifications.

Completely welded curb and gutter sections shall be furnished for Types F2 and I

Steel sections shall be furnished in minimum lengths of 20 feet and shall be field welded into continuous sections. Welds shall be ground smooth in areas where they will be in contact with the elastomer.

Where the total length of the joint is less than 40 feet the minimum length of steel sections shall be half of the total length of the joint.

Elastomeric gland material shall conform to Section 212 of the Specifications. Fabric reinforcement shall be a nonwicking woven polyester material.

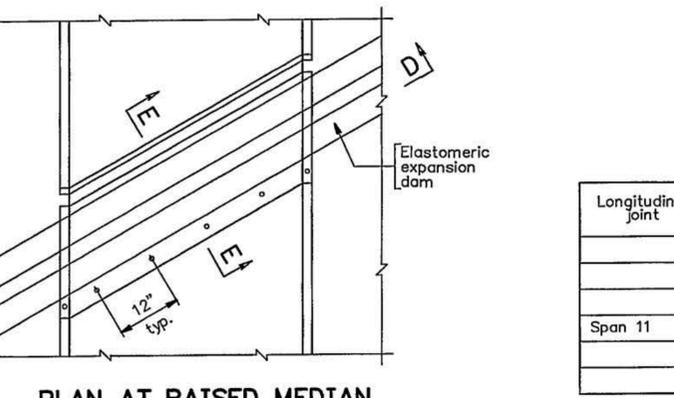
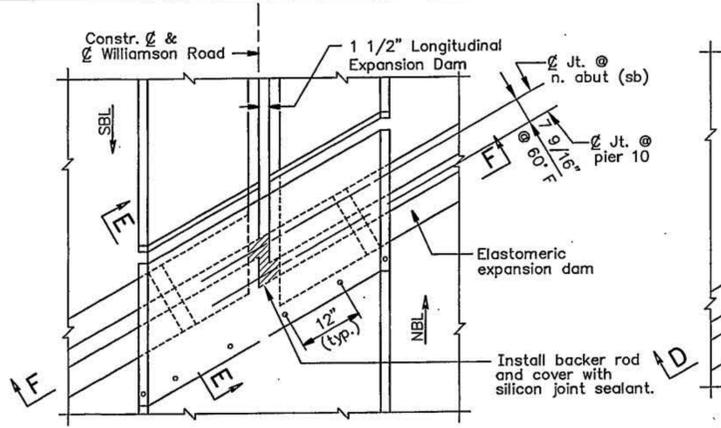
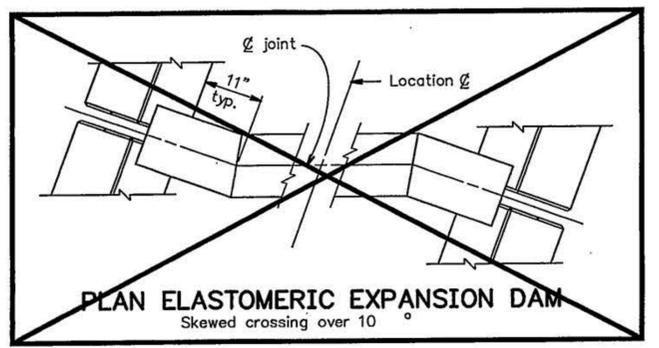
Dam Proprietary Nomenclature:

Type F2 = Acme Strip Seal, On-Flex Strip Seal (Structural Accessories), Steelflex SSC-M (D.S.Brown), E-Poxy Industries S400, & R. J. Watson RJM Strip Seal

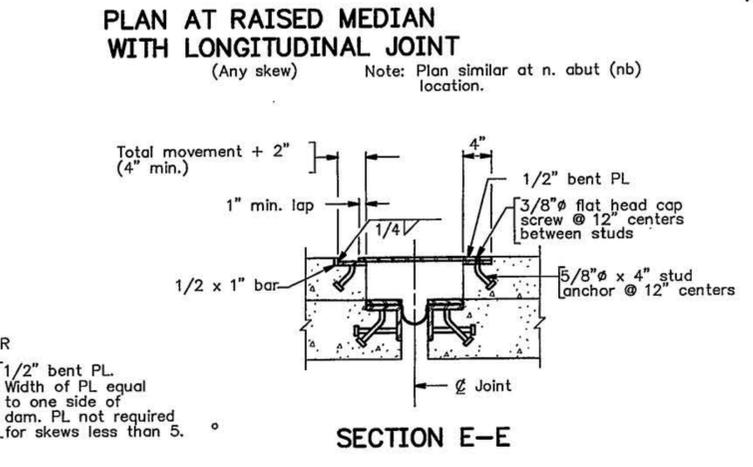
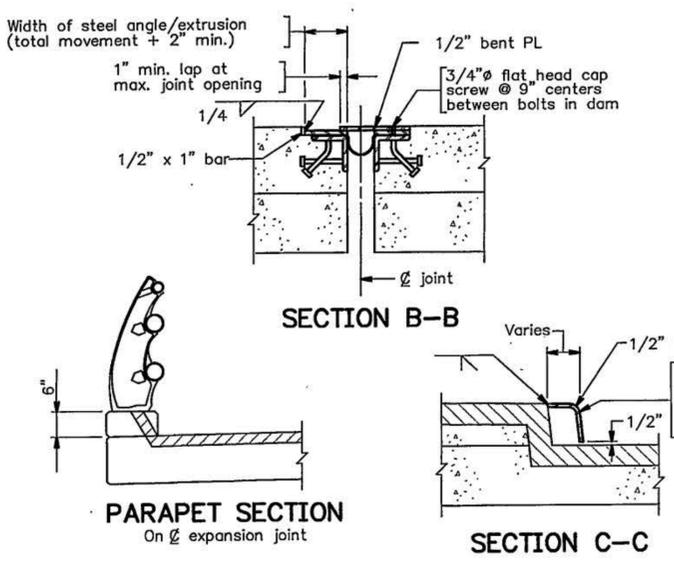
Type I = Nonproprietary

Backer rod and silicon joint sealant materials shall be installed per manufacturer's recommendations. All materials shall be approved by the Engineer and included in the price bid for other items.

Longitudinal expansion dam shall extend below bent plate as shown on the plans.



Longitudinal joint	Abutment	Pier	Type used	A (@ 60°F)	t	Total movement	Skew angle
		B	F2 ✓	1 1/2"	1/8"	2 5/16"	21°40'09"
	N. ABUT. (SB)		F2 ✓	1 3/8"	1/8"	2"	31°55'37"
		10	F2 ✓	1 3/8"	1/8"	2"	31°55'37"
Span 11			F2 ✓	1 1/2"	-	-	0°



"A" shall be increased or decreased for every 5°F temperature drop or rise respectively by "t". "A" is measured perpendicular to the joint centerline.

Total movement is the movement the dam must be capable of providing to allow for the effects of temperature changes, girder end rotation under live load and racking caused by the skew angle.

5-1-00		RECORD DRAWINGS	JHM
REVISION	DATE	DESCRIPTION	BY APP
DESIGNED MAN	CITY OF ROANOKE, VA		
DRAWN	HUNTER VIADUCT		
CHECKED	ELASTOMERIC EXPANSION DAM		
APPROVED			
SUBMITTED			
HAYES, SEAY, MATTERN & MATTERN, INC.		SCALE NONE	COMM. NO. 2894A
ARCHITECTS - ENGINEERS - PLANNERS		DATE MARCH 1998	SHEET 28
ROANOKE, VIRGINIA			