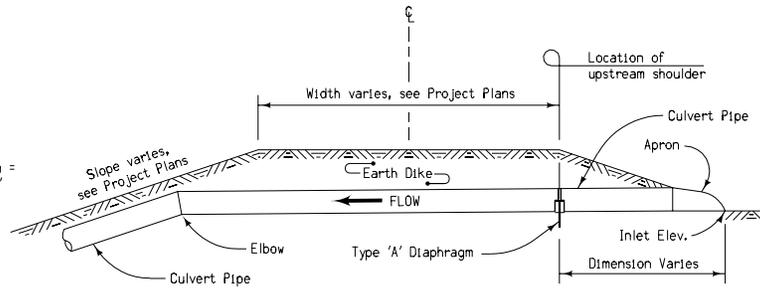


PLAN VIEW



TYPICAL SECTION OF INSTALLATION

Place diaphragm below upstream shoulder of dike unless otherwise specified on Project Plans.

GENERAL NOTES:

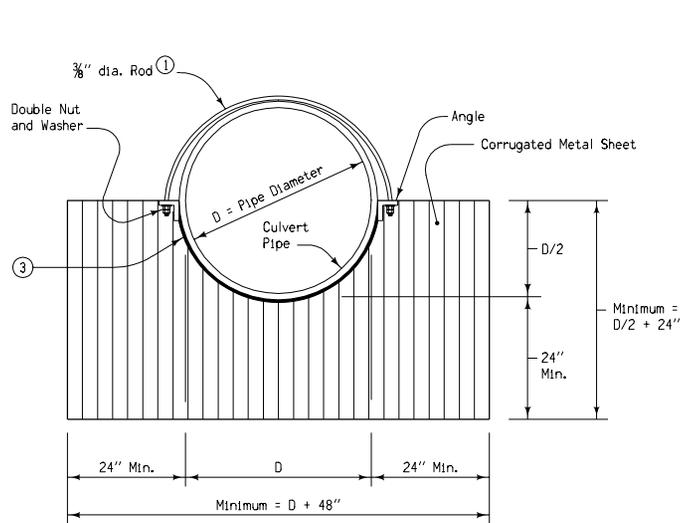
Type 'A' Diaphragm is an anti-seep device for use on let-down structures and shall be installed directly below the upstream shoulder of the dike.

Type "A" Diaphragm shall consist of a sheet of corrugated metal of the dimensions indicated hereon and of the same thickness as the pipe used for culvert pipe. This sheet may be fabricated from one or more sheets of corrugated metal. If two or more sheets are used, they shall be lapped a minimum of 3 inch centers along the seam. The sheet shall be welded on both sides to a standard half connecting band of the dimensions indicated hereon. This assembly shall then be securely attached to the pipe by means of two 3/8 inch diameter rods of appropriate length placed in two adjacent valleys of the corrugated pipe and threaded with double nut and washer.

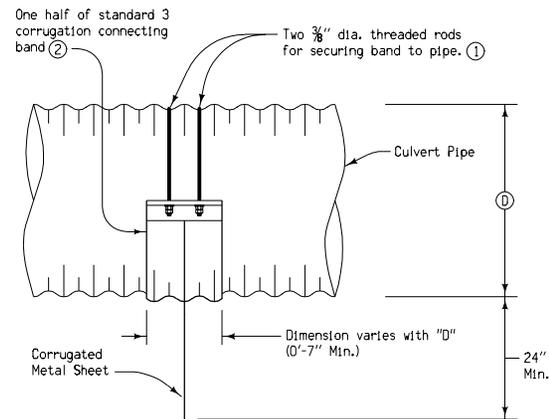
Note:

Details are shown using corrugated metal culvert pipe. Appropriate modifications as indicated, subject to the approval of the Engineer, shall be made as necessary where concrete culvert pipe is used.

- ① Normal half of connecting band may be used in lieu of rods when approved by the Engineer.
- ② Use flat steel band of equivalent dimensions where Type 'A' Corrugated Metal Diaphragm is to be installed on Concrete Culvert Pipe.
- ③ Corrugated Metal Sheet shall be continuously welded to the connecting band. Shape to fit outside pipe diameter.



END VIEW



SIDE VIEW

 Iowa Department of Transportation Highway Division	
STANDARD ROAD PLAN	RF-7
REVISION: Modify General Notes. No Longer a Bid Item.	REVISION NO. 5
<i>William J. Altan</i> APPROVED BY DESIGN METHODS ENGINEER	REVISION DATE 04-15-03
CORRUGATED METAL TYPE 'A' DIAPHRAGM	