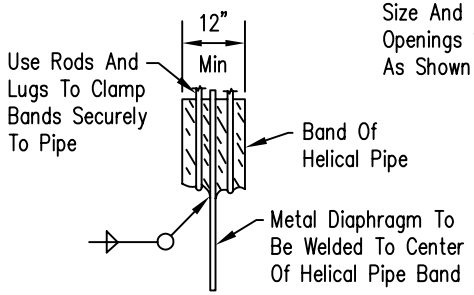
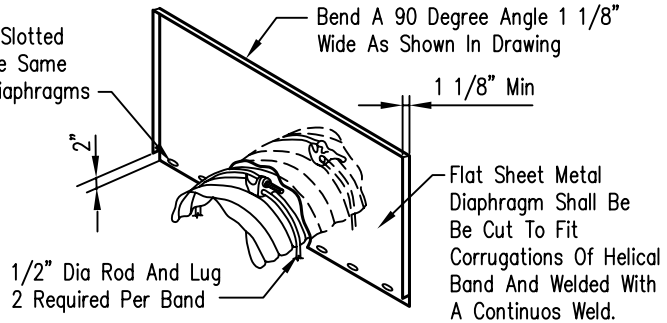


PARTIAL ELEVATION

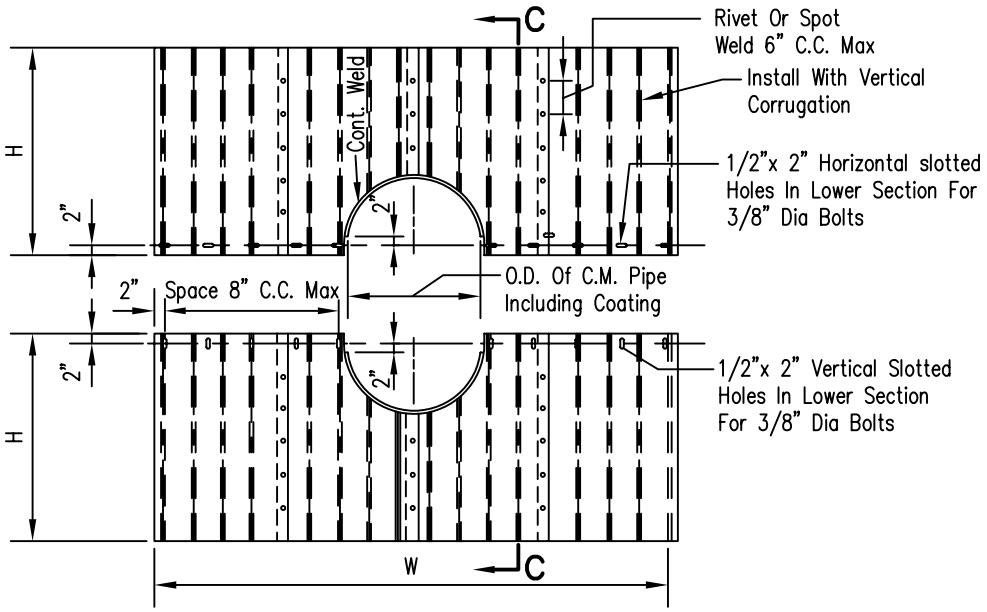


ISOMETRIC VIEW

DETAILS OF HELICAL PIPE DIAPHRAGMS

Notes For Diaphragms

1. Materials and coating for all diaphragms shall be the same as that specified for the pipe.
2. Diaphragms shall be shop fabricated, assembled and marked by painting to identify matching half sections each diaphragm.
3. The laps between the half sections and between the pipe and connecting bands shall be caulked with fibrated asphalt mastic at the time of installation.
4. All tank lugs, rods, and nuts shall be Galvanized steel. Where aluminum diaphragms are used, the rods and lugs shall be separated from the aluminum bands by at least two layers of 2" wide plastic tape with a total thickness of 24 mils or more.
5. The diaphragms shall be welded to the connecting band as shown on the drawings. All welds shall be treated as specified for class I, II and III welds, miscellaneous.
6. Bands shall be fabricated from material having the same class of corrugations as the pipe to which it is to be attached.



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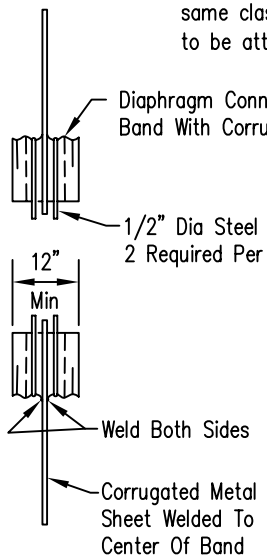

SECTION C–C

DIAPHRAGM DIMENSION TABLE		
Nominal Diaphragm	Fabrication Diaphragm	
Size	W(Width)	H(Height)
4' x 4'	4'–0"	2'–2"
6' x 3'	6'–0"	1'–8"
5' x 5'	5'–0"	2'–8"
6' x 5'	6'–0"	2'–8"
6' x 6'	6'–0"	3'–2"
8' x 6'	8'–0"	3'–2"
8' x 7'	8'–0"	3'–8"
8' x 8'	8'–0"	4'–2"
10' x 6'	10'–0"	3'–2"
10' x 7'	10'–0"	3'–8"

DETAILS OF ANNULAR PIPE DIAPHRAGMS

Drawing adapted from Illinois

Landowner		Location	

AUTOCAD2000

Date
Designed M. QUINONES 8/01
Drawn
Checked
Approved

APPURTENANCES FOR CORRUGATED METAL PIPE STRUCTURES

NRCS Natural Resources Conservation Service

File No. TN-ENG-200C
Drawing No.