

STEEL ROUND PIPE 125 mm x 25 mm and 76 mm x 25 mm Corrugations											
DIAMETER OF PIPE 'D'	MINIMUM COVER ABOVE PIPE ①	(H) Maximum Allowable Cover in Meters									
		Steel Thickness									
		1.6 mm		2.0 mm		2.8 mm		3.5 mm		4.3 mm	
mm	mm	Round	Elongated	Round	Elongated	Round	Elongated	Round	Elongated	Round	Elongated
900	300	8.2	12.2	9.4	15.2	12.2	22.6	-	-	-	-
1050	300	6.4	10.4	7.0	12.8	8.8	17.7	-	-	-	-
1200	300	5.2	9.1	5.8	11.3	7.0	14.0	-	-	-	-
1350	300	4.6	8.2	4.9	9.8	5.8	11.6	-	-	-	-
1500	300	4.0	7.3	4.6	8.8	4.9	10.1	-	-	-	-
1650	300	4.0	6.7	4.0	8.2	4.6	9.1	-	-	-	-
1800	300	3.7	6.1	3.7	7.6	4.3	8.2	-	-	-	-
1950	300	3.7	5.5	3.7	7.0	4.0	7.9	-	-	-	-
2100	300	-	-	3.7	6.4	3.7	7.3	4.0	7.9	-	-
2250	300	-	-	-	-	3.7	7.3	3.7	10.7	4.0	7.9
2400	300	-	-	-	-	3.4	7.0	3.7	7.3	3.7	7.6
2550	600	-	-	-	-	-	-	3.7	7.0	3.7	7.3
2700	600	-	-	-	-	-	-	-	-	3.7	7.0
2850	600	-	-	-	-	-	-	-	-	3.4	7.0
3000	600	-	-	-	-	-	-	-	-	3.4	6.1

STEEL ROUND PIPE 68 mm x 13 mm Corrugations											
DIAMETER OF PIPE 'D'	MINIMUM COVER ABOVE PIPE ①	(H) Maximum Allowable Cover in Meters									
		Steel Thickness									
		1.6 mm		2.0 mm		2.8 mm		3.5 mm		4.3 mm	
mm	mm	Round	Elongated	Round	Elongated	Round	Elongated	Round	Elongated	Round	Elongated
300	300	21.3	-	23.2	-	-	-	-	-	-	-
375	300	17.1	-	18.6	-	-	-	-	-	-	-
450	300	12.2	-	14.6	-	19.5	-	-	-	-	-
600	300	7.0	-	7.9	-	10.1	-	-	-	-	-
750	300	-	-	5.5	9.1	6.7	13.1	7.6	15.5	-	-
900	300	-	-	4.6	7.6	5.2	10.1	5.8	11.6	-	-
1050	300	-	-	-	-	4.3	8.5	4.9	9.4	5.2	10.4
1200	300	-	-	-	-	4.0	7.6	4.3	8.2	4.6	8.8
1350	450	-	-	-	-	3.7	7.3	4.0	7.6	4.0	7.9
1500	450	-	-	-	-	-	-	3.7	7.0	3.7	7.6
1650	450	-	-	-	-	-	-	3.4	6.7	3.7	7.0
1800	450	-	-	-	-	-	-	3.4	5.2	3.4	6.4
1950	600	-	-	-	-	-	-	-	-	3.4	5.2
2100	600	-	-	-	-	-	-	-	-	3.4	4.0

STRUCTURAL STEEL ROUND PIPE 152 mm x 51 mm Corrugations													
Diameter of pipe 'D'	Minimum cover above pipe ①	(H) Maximum Allowable Cover in Meters											
		Steel Thickness											
		2.8 mm		3.5 mm		4.3 mm		5.5 mm		6.5 mm		7.0 mm	
mm	mm	Round	Elongated	Round	Elongated	Round	Elongated	Round	Elongated	Round	Elongated	Round	Elongated
1500	300	10.7	10.7	13.1	15.8	15.5	20.4	-	-	-	-	-	-
1650	300	8.8	9.8	10.7	13.7	12.5	18.6	-	-	-	-	-	-
1800	300	7.6	8.8	8.8	13.1	10.4	17.1	-	-	-	-	-	-
1950	300	6.7	8.2	7.6	12.2	8.8	15.8	-	-	-	-	-	-
2100	300	5.8	7.6	6.7	11.3	7.6	14.6	-	-	-	-	-	-
2250	300	5.5	7.0	6.1	10.4	6.7	13.4	-	-	-	-	-	-
2400	300	4.9	6.7	5.5	9.8	6.1	12.2	-	-	-	-	-	-
2550	600	4.6	6.4	5.2	9.1	5.5	11.0	-	-	-	-	-	-
2700	600	4.3	5.8	4.9	8.8	5.2	10.4	-	-	-	-	-	-
2850	600	4.3	5.5	4.6	8.2	4.9	9.8	5.5	11.0	-	-	-	-
3000	600	4.0	5.5	4.3	7.9	4.6	9.1	5.2	10.1	-	-	-	-
3150	600	4.0	-	4.0	7.6	4.3	8.8	4.9	9.4	-	-	-	-
3300	600	3.7	-	4.0	7.3	4.3	8.2	4.6	9.1	-	-	-	-
3450	600	3.7	-	4.0	7.0	4.0	7.9	4.3	8.8	-	-	-	-
3600	600	3.7	-	3.7	6.7	4.0	7.9	4.3	8.2	-	-	-	-
3750	600	3.7	-	3.7	6.4	3.7	7.6	4.0	8.2	4.3	8.5	-	-
3900	600	3.4	-	3.7	6.1	3.7	7.3	4.0	7.9	4.0	8.2	-	-
4050	600	3.4	-	3.7	5.8	3.7	7.3	4.0	7.6	4.0	7.9	4.0	8.2
4200	600	3.4	-	3.4	5.8	3.7	7.0	3.7	7.6	4.0	7.6	4.0	7.9
4350	600	3.4	-	3.4	5.5	3.7	7.0	3.7	7.3	3.7	7.6	4.0	7.6
4500	600	3.4	-	3.4	5.2	3.4	7.0	3.7	7.3	3.7	7.3	3.7	7.6

Unless specified otherwise, the Contractor may choose the type of corrugated pipe and installation to furnish as long as the selection conforms to the limits indicated for the type specified.


When polyethylene pipe is used, Class "A" Bedding is required. Maximum allowable cover for all sizes and installations of polyethylene pipe is 4.6 meters.

Depth of cover values were determined in accordance with "AASHTO Standard Specifications for Highway Bridges," Section 12, with the following assumptions:

- Iowa DOT Class "A" bedding conditions
- Density of soil, W = 1920 kg per cubic meter
- Soil stiffness factor, k = 0.55

① Minimum cover for roadway culverts is 600 millimeters. Minimum cover for entrance culverts is 300 millimeters.

All dimensions given in millimeters unless noted.

M	 Iowa Department of Transportation	REVISION 8 10-16-07
		RF-32
		SHEET 1 of 1
		REVISIONS: Added round pipe information from RF-33. Renamed.
<i>Deanna Mufelt</i> APPROVED BY DESIGN METHODS ENGINEER		
DEPTH OF COVER TABLES FOR CORRUGATED ROUND PIPE		