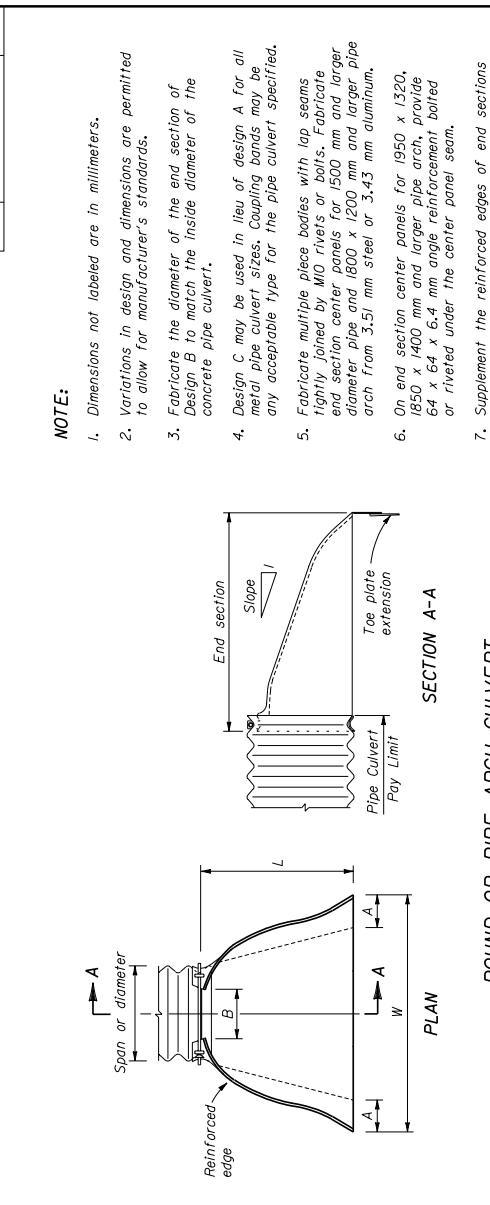


**END SECTIONS FOR PIPE ARCH CULVERT**

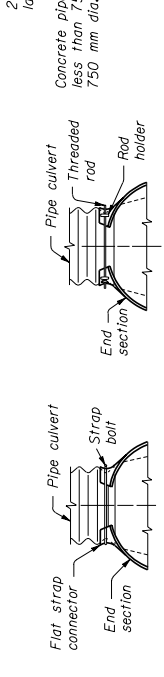
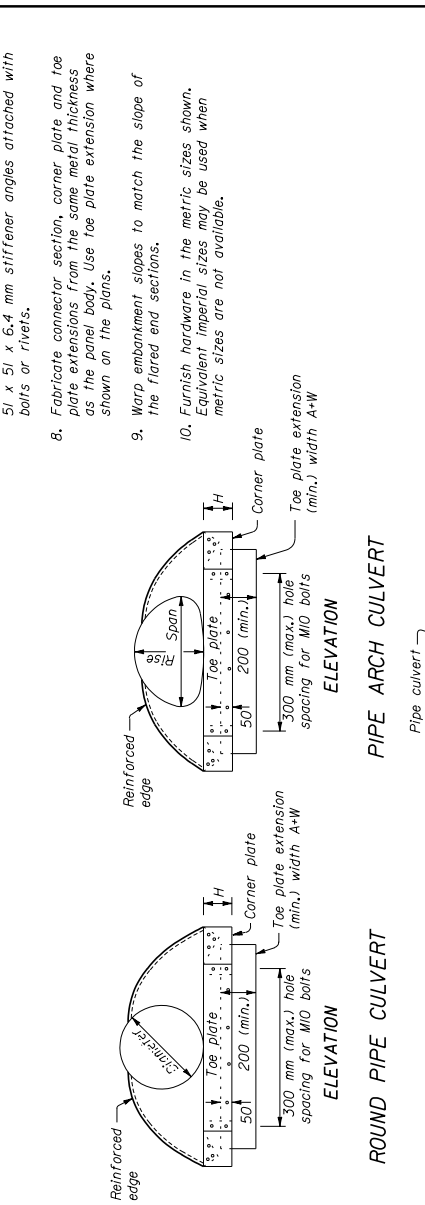
PIPE SIZE	STEEL THICKNESS	ALU-MINIMUM DIMENSIONS							SLOPE
		A	B	H	F	L	W		
SPAN X RISE	METAL THICKNESS								Approx.
430 x 330	1.63	152	125	225	150	700	500	1300	2:1
530 x 380	1.63	152	150	275	150	850	600	1450	2:0
610 x 460	1.63	152	175	300	150	1000	700	1575	2:1
710 x 510	1.63	152	175	400	150	1150	800	1750	2:0
885 x 610	2.01	1.91	225	400	150	1450	925	2125	1:9
1060 x 740	2.01	1.91	275	450	175	1825	1150	2600	1:9
1240 x 840	2.77	2.67	300	525	225	2050	1325	2925	1:8
1440 x 990	2.77	2.67	400	650	300	2200	1550	3300	1:9
1620 x 1100	2.77	2.67	425	750	300	2500	1725	3600	1:9
1820 x 1170	2.77	2.67	425	900	300	2500	1750	3550	1:9
1800 x 1200	2.77	2.67	425	900	300	2800	1925	3900	1:9
1670 x 1300	2.77	2.67	425	900	300	2800	1925	3900	1:8
1950 x 1320	2.77	2.67	425	900	300	3100	1925	4175	1:6
1850 x 1400	2.77	2.67	425	900	300	3100	1925	4200	1:5
2100 x 1450	2.77	2.67	425	1100	300	3250	1925	4425	1:5
2050 x 1500	2.77	2.67	425	1100	300	3400	1925	4475	1:6
2200 x 1620	2.77	2.67	425	1100	300	3400	1925	4650	1:5
2400 x 1720	2.77	2.67	425	1100	300	4000	2175	5250	1:5
2600 x 1820	2.77	2.67	425	1100	300	4300	2175	5550	1:3
2840 x 1920	2.77	2.67	425	1100	300	4300	2175	5650	1:2



**ROUND OR PIPE ARCH CULVERT**

**END SECTIONS FOR ROUND PIPE CULVERT**

PIPE SIZE DIAMETER	STEEL THICKNESS	ALU-MINIMUM DIMENSIONS							SLOPE
		A	B	H	F	L	W		
300	1.63	152	125	175	150	550	525	1100	2:2
375	1.63	152	150	200	150	700	650	1300	2:2
450	1.63	152	175	250	150	850	775	1450	2:1
600	1.63	152	225	325	150	1150	1025	1800	2:1
750	2.01	1.91	275	400	200	1375	1275	2200	2:1
900	2.01	1.91	325	475	225	1750	1500	2650	2:0
1050	2.77	2.67	375	625	250	2050	1725	3050	2:1
1200	2.77	2.67	425	725	300	2200	1950	3275	2:0
1350	2.77	2.67	425	825	300	2500	2100	3575	2:0
1500	2.77	2.67	425	900	300	2800	2175	3925	1:9
1650	2.77	2.67	425	975	300	2950	2175	4050	1:6
1800	2.77	2.67	425	1100	300	3000	2175	4225	1:5
1950	2.77	2.67	425	1200	300	3250	2175	4450	1:4
2100	2.77	2.67	425	1300	300	3400	2175	4600	1:3
2250	2.77	2.67	425	1450	300	3550	2175	4700	1:2
2400	2.77	2.67	425	1450	300	3600	2175	4925	1:1



For 300 thru 600 mm round pipe and 430 x 330 thru 710 x 510 mm pipe arch.

For 750 thru 1500 mm round pipe and 890 x 610 thru 1670 x 1290 mm pipe arch.

**DESIGN A CONNECTION TO ANNULAR CORRUGATED METAL PIPE**

**DESIGN B CONNECTION TO CONCRETE PIPE OR OUTLET END OF CONCRETE PIPE**

**DESIGN C CONNECTION TO METAL PIPE OR OUTLET END OF CONCRETE PIPE**

NO SCALE

**NOTE:**

- Dimensions not labeled are in millimeters.
- Variations in design and dimensions are permitted to allow for manufacturer's standards.
- Fabricate the diameter of the end section of Design B to match the inside diameter of the concrete pipe culvert.
- Design C may be used in lieu of design A for all metal pipe culvert sizes. Coupling bands may be any acceptable type for the pipe culvert specified.
- Fabricate multiple piece bodies with lap seams lightly joined by M10 rivets or bolts. Fabricate end section center panels for 1500 mm and larger diameter pipe and 1800 x 1200 mm and larger pipe arch from 3.51 mm steel or 3.43 mm aluminum.
- On end section center panels for 1950 x 1320, 1850 x 1400 mm and larger pipe arch, provide 64 x 64 x 6.4 mm angle reinforcement bolted or riveted under the center panel seam.
- Supplement the reinforced edges of end sections for 1500 mm and larger diameter pipe and 1950 x 1320, 1850 x 1400 mm and larger pipe arch with 51 x 51 x 6.4 mm stiffener angles attached with bolts or rivets.
- Fabricate connector section, corner plate and toe plate extensions from the same metal thickness as the panel body. Use toe plate extension where shown on the plans.
- Ward embankment slopes to match the slope of the flared end sections.
- Furnish hardware in the metric sizes shown. Equivalent imperial sizes may be used when metric sizes are not available.