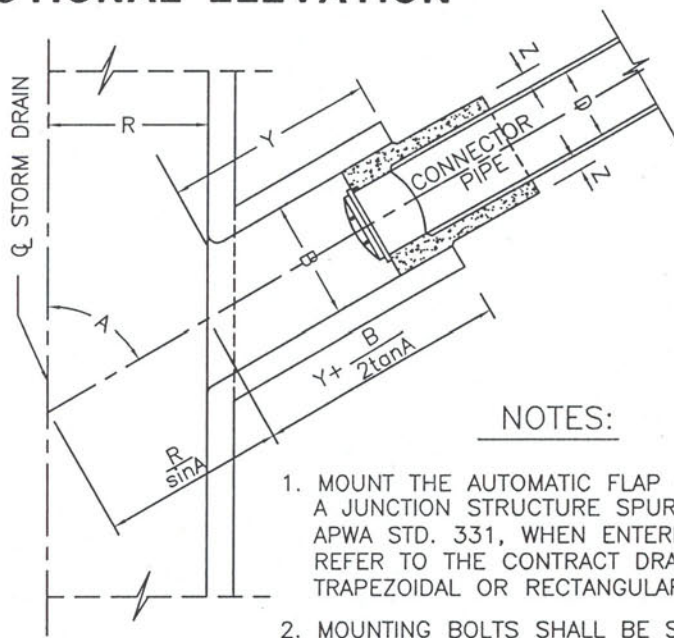


D in	B in	Z in	Y ft
12	24	5.0	4.0
15	27	5.0	4.0
18	33	5.0	4.0
21	39	5.0	4.0
24	42	5.0	4.0
30	51	6.0	4.5
36	60	6.0	5.0
42	72	7.0	6.0
48	81	7.0	6.5
54	87	7.0	7.0
60	96	8.0	8.0
66	108	8.0	8.5
72	114	8.0	9.0
78	126	9.0	9.5
84	138	9.0	10.5
90	144	9.0	11.0

**SECTIONAL ELEVATION**



**NOTES:**

1. MOUNT THE AUTOMATIC FLAP GATE ON A CONCRETE COLLAR POURED IN THE END OF A JUNCTION STRUCTURE SPUR. IF NO JUNCTION STRUCTURE ID SPECIFIED, USE APWA STD. 331, WHEN ENTERING PIPE AND APWA STD. 333, WHEN ENTERING RC BOX. REFER TO THE CONTRACT DRAWINGS FOR A JUNCTION STRUCTURE WHEN ENTERING TRAPEZOIDAL OR RECTANGULAR RC CHANNEL.
2. MOUNTING BOLTS SHALL BE STAINLESS STEEL OR APPROVED EQUAL AND EMBEDDED 5" INTO THE COLLAR.
3. THE FLAP GATE SHALL BE ARMCO, WATERMAN, CASCADE OR CITY APPROVED EQUAL AUTOMATIC FLAP GATE, DESIGNED FOR 20 FEET OF SEATING HEAD UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS.
4. THE "Y" DIMENSION IS MEASURED AT THE TOP OF THE JUNCTION STRUCTURE SPUR FOR TRAPEZOIDAL REINFORCED CONCRETE CHANNEL.
5. THE CONCRETE SHALL BE REINFORCED PER A.P.W.A. STD. 380 WHEN ANGLE  $\theta$  EXCEEDS 10°.
6. FLAP GATE MAY BE EITHER SPIGOT BACK OR FLAT BACK UNLESS OTHERWISE SPECIFIED ON THE CONTRACT DRAWINGS.

**SECTION B-B**

**CITY OF TORRANCE**

DATE ISSUED	<b>FLAP GATE</b>	STANDARD NO.
02 JUL 2008		<b>T301</b>
ROBERT J. BESTE PUBLIC WORKS DIRECTOR R.C.E. NO. 50737		SHEET 1 OF 1

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