

PROJECT _____ STATION _____

If Line 5 is over 5' 4", use Type A Tower
 If Line 5 is 3' 2" to 5' 4", use Type B Tower
 If Line 5 is 2' 4" to 3' 2", use Type C Tower

Increase above dimensions by 1" for use with 72" pipe.

1. Grade Elevation _____
 2. Minus Inv. Elev. _____
 3. Vertical Difference _____
 4. Minus Pipe Size _____
 5. Difference _____

CHAMBER

6. Type _____ Pipe Size _____ Turn Angle _____

Less: Pipe Openings

7. Size _____ Class _____ Defl. Angle _____
 8. Size _____ Class _____ Defl. Angle _____
 9. Size _____ Class _____ Defl. Angle _____
 10. Size _____ Class _____ Defl. Angle _____

11. Total Deductions (Lines 7-10) _____

12. Quantities for Chamber (Subtract Line 11 from Line 6 and Transfer to Line 17)

TOWER

13. Type _____ x Height _____ Min. Height _____
 x 48" Pipe - Line 3 minus 6.83'
 x 54" Pipe - Line 3 minus 6.83'
 x 60" Pipe - Line 3 minus 7.33'
 x 66" Pipe - Line 3 minus 7.83'
 x 72" Pipe - Line 3 minus 9.33'

14. Minimum Height Quantities _____
 15. (Line 13 less Min. Height) x increment per foot _____
 16. Quantities for tower (Add Lines 14 & 15) _____
 17. Quantities for Chamber (Line 12) _____
 18. Total Concrete and Reinforcing Steel (Add Lines 16 & 17) _____

CONCRETE CU. YDS. _____
 REINFORCING STEEL LBS. _____

STRUCTURAL STEEL QUANTITY (Lbs.) _____

DISPLACEMENT QUANTITIES FOR PIPE OPENINGS
 (To be used with Standard JB-1 Junction Box)

PIPE SIZE	PIPE CLASS	CONCRETE				REINFORCING STEEL	
		0° CU. YDS.	15° CU. YDS.	30° CU. YDS.	45° CU. YDS.	LBS.	LBS.
12"	III, IV, V C. M.	0.035 0.019	0.036 0.020	0.040 0.022	0.050 0.027	17.67 11.06	
15"	III, IV, V C. M.	0.050 0.030	0.052 0.031	0.058 0.034	0.071 0.042	24.88 15.93	
18"	III, IV, V C. M.	0.069 0.043	0.072 0.044	0.080 0.049	0.099 0.061	33.23 21.68	
24"	III, IV, V C. M.	0.118 0.076	0.122 0.078	0.137 0.087	0.168 0.108	53.53 35.33	
30"	III, IV, V C. M.	0.179 0.118	0.186 0.122	0.209 0.137	0.256 0.168	78.64 53.53	
36"	III, IV, V C. M.	0.254 0.170	0.263 0.176	0.294 0.197	0.362 0.242	108.76 74.76	
42"	III, IV, V C. M.	0.341 0.231	0.353 0.240	0.395 0.268	0.486 0.330	143.33 99.53	
48"	III, IV, V C. M.	0.441 0.302	0.457 0.313	0.511 0.350	0.629 0.431	182.90 127.85	
54"	III & IV V C. M.	0.554 0.580 0.382	0.574 0.600 0.412	0.642 0.672 0.443	0.789 0.826 0.545	227.29 257.42 159.70	
60"	III & IV V C. M.	0.679 0.708 0.472	0.704 0.734 0.481	0.787 0.821 0.551	0.965 1.009 0.673	276.49 287.65 195.09	
66"	III & IV V C. M.	0.818 0.849 0.571	0.847 0.880 0.591	0.948 0.985 0.682	1.166 1.211 0.814	330.50 342.70 234.02	
72"	III & IV V C. M.	0.969 1.003 0.679	1.004 1.040 0.704	1.123 1.163 0.787	1.382 1.431 0.969	389.34 402.58 276.49	

FIGURE D-1 COMPUTATIONS FOR STANDARD JB-1 JUNCTION BOX
 TABLE D-22 ADJUSTMENT QUANTITIES FOR JUNCTION BOX