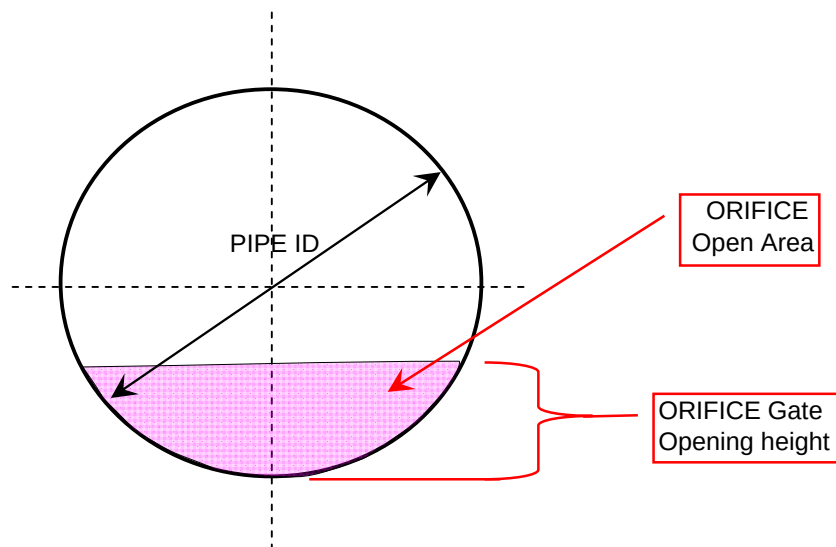


THE TRAILS ORIFICE PLATE SUMMARY								
C09 - D001				Grades are in <u>NGVD 29</u> (add 5400)				
POND / AP =>	D	E	F	G	H	J	AP-J	K
Pipe ID, Inches =	24	30	48	24	30	48		48
Opening Height (c), Inches =	10	10	9	13	12	14		20
Orifice, Equivalent Dia. =	14.12	16.53*	22.56	15.33	17.43	25.46		28.23
Pond Top =	36.90	48.00	24.30	22.50	22.00	17.00		9.00
WSE =	35.03	47.02	23.56	19.84	21.89	15.66		7.79
Pond Bottom =	29.50	41.60	15.08	15.67	18.65	14.00		4.85
Pipe Invert =	23.74	36.11	14.83	10.76	12.15	10.20		0.48
Freeboard =	1.87	0.98	0.74	2.66	0.11	1.34	0.00	1.21
Pond Depth =	5.53	5.42	8.48	4.17	3.24	1.66	0.00	2.94
Pipe Bury =	5.76	5.49	0.25	4.91	6.50	3.80	0.00	4.37
WSE - Pipe Inv. =	11.29	10.91	8.73	9.08	9.74	5.46	0.00	7.31



NOTES

* Existing 12" dia. Orifice by 730084, Sh 17A