

5,000 gallon water tank dedicated for domestic and fire sprinklers per CFMO 1 & 5 elv: 283.45' Proposed well (2) 5,000 gallon water tank.dedicated for wharf hydram bear CFMO 1 & 5 elv: 283.45' 3						
(2) 5 000 gallon water Tank declicated for what hydramper CFMO 18.5 elev: 283.45 3				1		
elev: 283.45	/	841.78'				
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Table 3 Wastewater Desi Single Family Residence	ign Flows for					∫ \
No. of Bedrooms	Design Flow (gal/day)	Minimum Vertical Sepa	Table PD-1 aration Requirements fo	r Shallow PD System		
1 2	150 300	Percolation Rate De	et, below trench bottom epth to Groundwater hary Supplemental	Soil Depth	emental	
3 4 5	450 525 600	(MPI) Treatm 1-5 5	ment* Treatment*	Treatment** Treat	ment** 2	S. S. 8
5 6 >6	600 675 + 75 per bedroom	6 – 120 3 * Provided by a septic tan this Manual.		3 cordance with requirements in	2 Part 3 of	E.H. DRI
			d alternative treatment syste	m identified in this Manual		
	<i>n</i>					ORI CA
						R. HARTSEL 2 WATERFC ACAVILLE, (
the surface of the gro lirections. A pressu oposed leach trench onal system when	ound. A perk test w ure dosed system wa nes (3' deep) and sea the perk rate is betw	ater was determined by as performed which pro as designed for this site isonal high ground wate veen 1 and 5 minutes p ration between the bot	duced an average since because th er (10') as required er inch. A press	rate of 2.7 minutes ere is not 20' of s d for a conventiona ure dosed septic sy	s per inch eparation Il system. rstem (an	~
s perk rate (2.7 minu	tes per inch).	ration between the bot	tom of the leach	trenches and seas	onal high	
		to have a volume twice t nber is required, in this				
allon septic tank. A quired is determined day/ 1.2 gallons of v	separate pump char d as follows; waters water per squ	nber is required, in this uare foot of infiltrative a	case I specify a 2! area = 875 square	500 gallon tank to s	serve this e area / 4	STEWAT STEWAT ENT AND AL PLAN
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SHALLOW TRENCH PRESSURE DOSED SYSTEM CALCULATIONS

The following calculations were base on the EPA Design Manual 35, Onsite Wastewater Treatment and Disposal Systems (manual) and the Washington State Department of Health Recommended Standards and Guidance for Performance, Application, Design, and **Operation & Maintenance Pressure Distribution Systems** (guidelines) published in 2009, and the Santa Clara County Onsite Systems Manual.

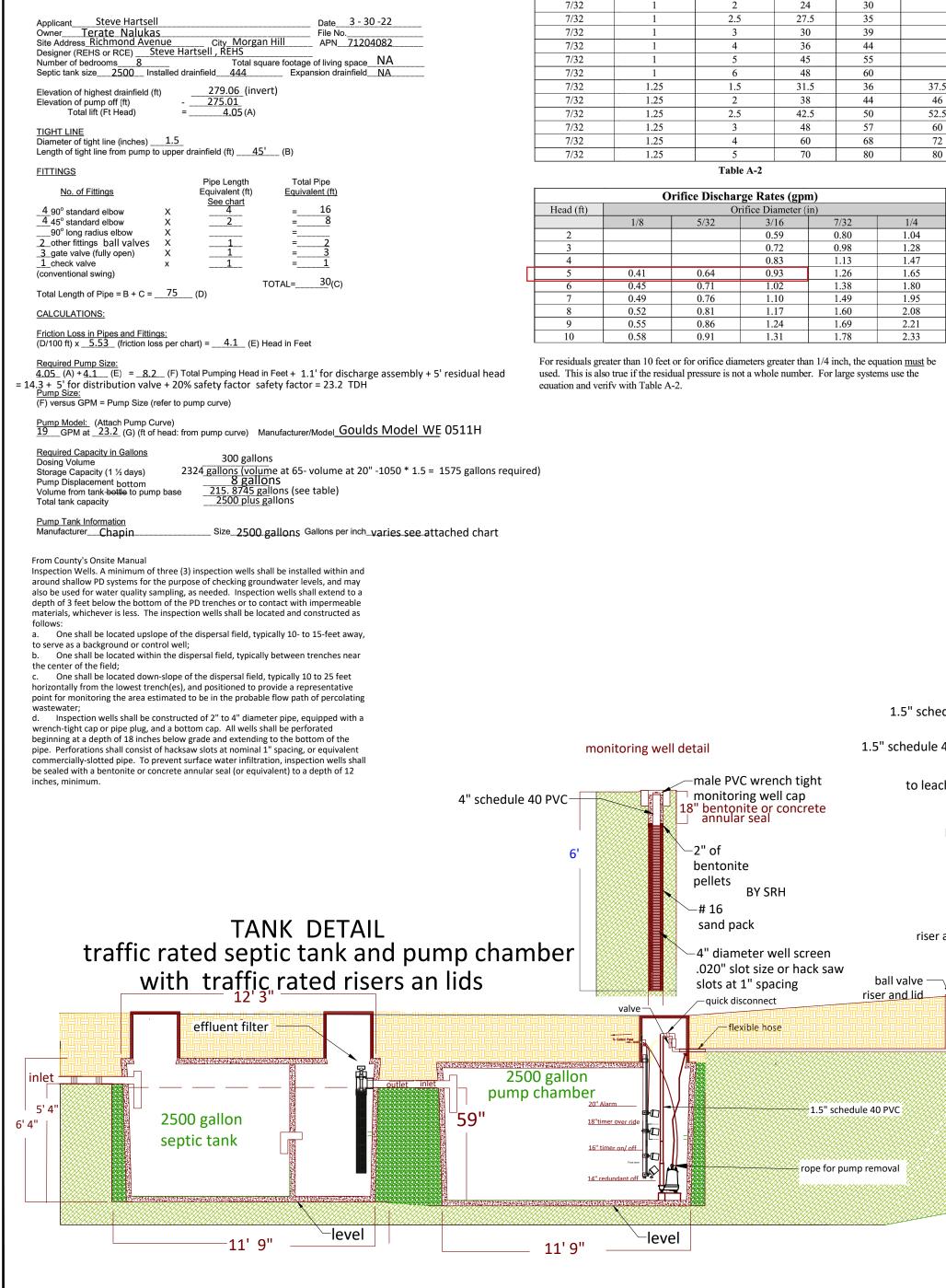
## **System Criteria**

Each of the two required leach fields has three 74' laterals, separated by a Orenco distributing valve so that each time the pump is turned on only one of the 74' long leach trenches is pressurized. This discussion addresses the parameters of the leach trench that has the highest head (the one farthest from the pump).

- 1. All coupling utilize solvent welding.
- **2.** The hole diameter selected is  $\frac{3}{16}$ " with a spacing of 4 feet (see table A1). 3. The laterals are 1.5" schedule 40 PVC.
- 4. A minimum of 5 feet of head is to be maintained in the system so
- the orifice discharge rate is .93 gallons per hole (table A2) . 5. The total number of orifices in each se 74' leach trench is 19 ( $\frac{74}{4}$ + 1 = 19). Each leach trench requires a minimum flow of 196 gallons per minute (19 \*.0973 = 19 gallon per minute). 6. . The minimum dose volume shall be 150 gallons.

Drill orifice holes carefully and clean any residue from the holes before installing the pipe. Make sure no gravel gets inside the pipe.

]	PUMP	SYSTEM	WORKSHEET
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Tables A1 and A2 Washington State Department of Health **Recommended Standards and Guidance for Performance, Application, Design, and Operation & Maintenance Pressure Distribution Systems (guidelines) published in 2009** 

> Pressure Distribution Systems - Recommended Standards and Guidance Effective Date: July 1, 2009

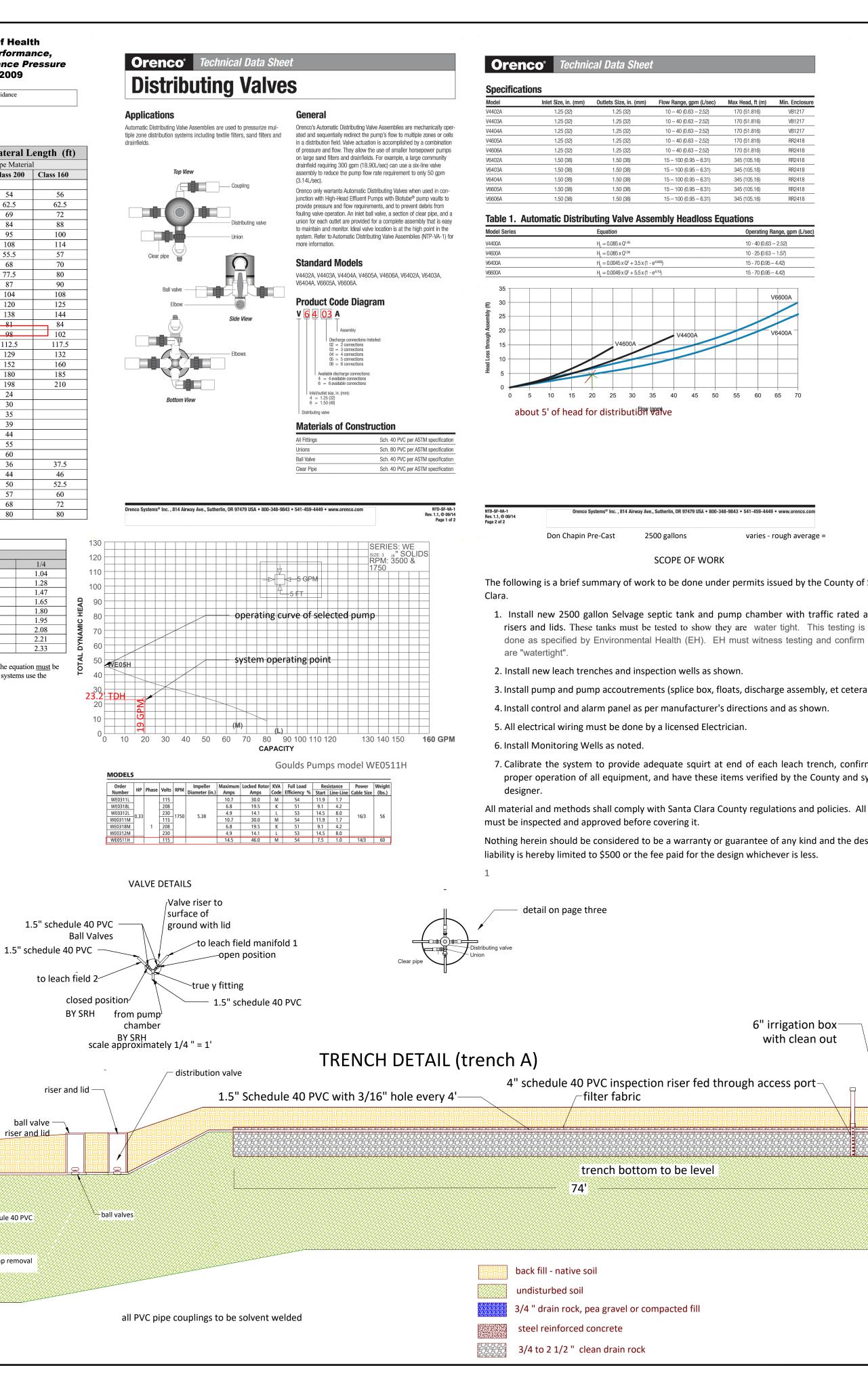
## Table A-1 Lateral Design Table (continued)

			Maximum Lateral Lengt			
Orifice	Lateral	Orifice Spacing	Pipe Material			
(inches)	(inches)	(feet)	Schedule 40	Class 200	Clas	
3/16	1.25	2	46	54		
3/16	1.25	2.5	52.5	62.5		
3/16	1.25	3	60	69		
3/16	1.25	4	72	84		
3/16	1.25	5	85	95		
3/16	1.25	6	96	108		
3/16	1.5	1.5	49.5	55.5		
3/16	1.5	2	60	68		
3/16	1.5	2.5	70	77.5		
3/16	1.5	3	78	87		
3/16	1.5	4	92	104		
3/16	1.5	5	110	120		
3/16	1.5	6	120	138		
3/16	2	1.5	76.5	81		
3/16	2	2	92	98		
3/16	2	2.5	105	112.5		
3/16	2	3	120	129		
3/16	2	4	144	152		
3/16	2	5	165	180		
3/16	2	6	186	198		
7/32	1	1.5	19.5	24		
7/32	1	2	24	30		
7/32	1	2.5	27.5	35		
7/32	1	3	30	39		
7/32	1	4	36	44		
7/32	1	5	45	55		
7/32	1	6	48	60		
7/32	1.25	1.5	31.5	36		
7/32	1.25	2	38	44		
7/32	1.25	2.5	42.5	50		
7/32	1.25	3	48	57		
7/32	1.25	4	60	68		
7/32	1.25	5	70	80		

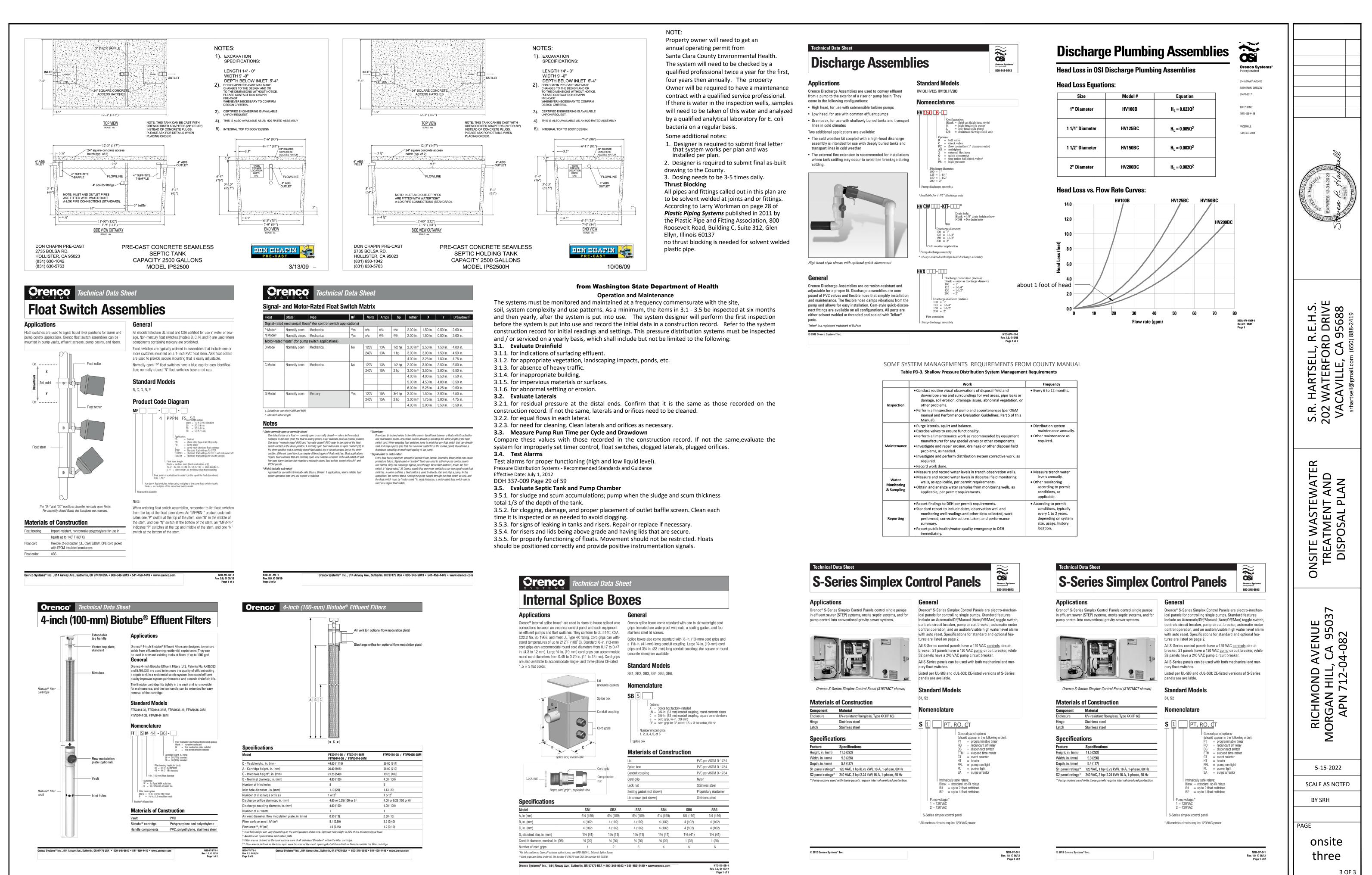
Orifice Discharge Rates (gpm)							
Head (ft)	Orifice Diameter (in)						
	1/8	5/32	3/16	7/32	1/4		
2			0.59	0.80	1.04		
3			0.72	0.98	1.28		
4			0.83	1.13	1.47		
5	0.41	0.64	0.93	1.26	1.65		
6	0.45	0.71	1.02	1.38	1.80		
7	0.49	0.76	1.10	1.49	1.95		
8	0.52	0.81	1.17	1.60	2.08		
9	0.55	0.86	1.24	1.69	2.21		
10	0.58	0.91	1.31	1.78	2.33		

used. This is also true if the residual pressure is not a whole number. For large systems use the

ball valve -



total volu		e bottom (2500 gallon tank volume			
	depth from bottom 0	2000 gallon tank volume 0	2500 gallon tank volume 0	float settings	
	1	34.213	42.76625		
	2 3	68.589 103.128	85.73625 128.91		
	4	137.831	172.28875		
	5	172.698	215.8725		
	6 7	207.729 242.924	259.66125 303.655		
	8	278.284	347.855		
	9	313.81	392.2625		
	10 11	349.5 385.356	436.875 481.695		
	12	421.378	526.7225		
	13	457.566	571.9575		l ll
	14	493.92	617.4	reduntant off	A SPECIALIST
	15 16	530.441 567.129	663.05125 708.91125	timer on	and the source of the
	17	603.984	754.98		KURNENTA SKYEN R. HAR.
	18	641.007	801.25875	timer override	IRES RANK
	19	678.198	847.7475		Exp of the
	20 21	715.557 753.084	894.44625 941.355	alarm	ECISTERE
	22	790.78	988.475		V)
	23	828.644	1035.805		
	24 25	866.678 904.882	1083.3475		
	25	904.882 943.255	1131.1025 1179.06875		
	27	981. 799	#VALUE!		
	28	1020.513	1275.64125		
	29	1059.397	1324.24625		
	30 31	1098.453 1137.68	1373.06625 1422.1		
	32	1177.078	1471.3475		R.E.H.S. DRIVE 95688
	33	1216.648	1520.81		E.H. DRI 568
	34	1256.39	1570.4875		
	35 36	1296.304 1336.391	1620.38 1670.48875		
	37	1376.651	1720.81375		
	38	1417.084	1771.355		R. HARTSELI 2 WATERFO ACAVILLE, C
anta	39	1457.691	1822.11375		
anta	40 41	1498.472 1539.426	1873.09 1924.2825		AF VIA B
cess	42	1580.555	1975.69375		HAI WA: CAV
be	43	1621.858	2027.3225		.R. 12 / AC
anks	44	1663.337	2079.17125		S.F
	45 46	1704.99 1746.819	2131.2375 2183.52375		
	40	1788.824	2236.03		
	48	1831.005	2288.75625		
	49	1873.362	2341.7025		l ~
	50 51	1915.895 1958.606	2394.86875 2448.2575		ER
	52	2001.494	2501.8675		
	53	2044.559	2555.69875		EWA1 T ANC PLAN
the	54	2087.802	2609.7525		
stem	55 56	2131.223 2174.822	2664.02875 2718.5275		
vork	50	2174.822 2218.6	2718.5275 2773.25		
	58	2262.557	2828.19625		SITE WAS REATME DISPOSAI
gner	59	2306.692	2883.365		μ μ μ
<u></u>	60 61	2351.008 2395.503	2938.76 2994.37875		SITE V IREAT DISP(
	62	2395.503	3050.22125		l S下口
	63	2485.033	3106.29125		ONSITE TREA DISF
	64	2530.068	3162.585		
	65	2575.285	3219.10625	inlet level	
					NUE 95037 32
					AVENUE CA 950
					EN
		END VIEW			AVENU CA 95 04-082
<i>⊢</i> 1.5" cle	an out				RICHMOND A MORGAN HILL, ( APN 712-04
			– сар		
extra	rew on cap 1.5" screw on cap		-up		7 H O H Z
$\setminus / /$ with 3	3/16" hole for squirt				
$1\frac{1}{2}$	" schedule 40 PVC p	pe			H H K Id
	36" 16"		coupling		
	2"				
	18" 1.5"	1 1/2	2" Schedule 40 PVC pressurize	d pipe	2
	I _ I		e every 4' hole pointing down		
	$1\frac{1}{2}$ " schedule 40 PVC				
	long sweep elbow		4" perforated pipe SDR 35 or		5-15-2022
			Schedule 40 PVC		SCALE AS NOTED
					JUALE AS NUTED
					BY SRH
		scale approximately 1/4 " = 1			
		by srh			PAGE
					onsite
					two



SB1	SB2	SB3	SB4	SB5	SB6
6					
		Lid screws (not shown)			Stainless steel
ycc cord grip**, exploded view		Sealing gasket (no	t shown)		Proprietary elastom
	Cord grip Compression nut	Lock nut			Stainless steel
		Cord grip			Nylon
		Conduit coupling			PVC per ASTM D-1
/		Splice box			PVC per ASTM D-1
Splice box, model SB4		Lid	PVC per ASTM D-1		
Colleg how model CD4					

n (mm)	6¼ (159)	6¼ (159)	6¼ (159)	6¼ (159)	6¼ (159)	6¼ (159)	
n. (mm)	4 (102)	4 (102)	4 (102)	4 (102)	4 (102)	4 (102)	
n. (mm)	4 (102)	4 (102)	4 (102)	4 (102)	4 (102)	4 (102)	
standard size, in. (mm)	1% (41)	1% (41)	15⁄8 (41)	1% (41)	1% (41)	15⁄8 (41)	
nduit diameter, nominal, in. (DN)	3/4 (20)	34 (20)	3/4 (20)	3/4 (20)	1 (25)	1 (25)	
mber of cord grips	1	2	3	4	5	6	
information on Orenco® external splice boxes, see NTD-SBEX-1, External Splice Boxes							