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Designed by: JWD  
 Date: 15-Apr-25  
 Job Number: 2015-015

Parker Stroh

**As-Built Pond Discharge**

**ROUND ORIFICE SIZING**

$Q=Cd \times Ao \times (2 \times g \times h)^{0.5}$

Plan Elev	Elev	Orifice Diam 1 (in.)	Orifice Area (sf)	Head (ft)	Discharge (cfs)	Orifice Diam 2 (in.)	Orifice Area (sf)	Head (ft)	Discharge (cfs)	Orifice Diam 3 (in.)	Orifice Area (sf)	Head (ft)	Discharge (cfs)	Orifice Diam 4 (in.)	Orifice Area (sf)	Head (ft)	Discharge (cfs)	Total Discha
62.32	0.00	1.500	0.0123	0.00	0.000	0.000	0.0000	0.00	0.000	0.00	0.0000	0.00	0.00	0.00	0.0000	0.00	0.00	0.00
63.00	0.68	1.500	0.0123	0.62	0.050	0.000	0.0000	0.00	0.000	0.00	0.0000	0.00	0.00	0.00	0.0000	0.00	0.00	0.05
64.00	1.68	1.500	0.0123	1.62	0.081	1.500	0.0123	0.62	0.050	0.00	0.0000	0.00	0.00	0.00	0.0000	0.00	0.00	0.13
65.00	2.68	1.500	0.0123	2.62	0.104	1.500	0.0123	1.62	0.081	1.50	0.0123	0.62	0.05	0.00	0.0000	0.00	0.00	0.24
66.00	3.68	1.500	0.0123	3.62	0.122	1.500	0.0123	2.62	0.104	1.50	0.0123	1.62	0.08	1.50	0.0123	0.62	0.05	0.36
67.00	4.68	1.500	0.0123	4.62	0.138	1.500	0.0123	3.62	0.122	1.50	0.0123	2.62	0.10	1.50	0.0123	1.62	0.08	0.44
68.00	5.68	1.500	0.0123	5.62	0.152	1.500	0.0123	4.62	0.138	1.50	0.0123	3.62	0.12	1.50	0.0123	2.62	0.10	0.51
69.00	6.68	23.000	2.8852	5.94	36.680	0.000	0.0000	5.62	0.000	0.00	0.0000	4.62	0.00	0.00	0.0000	0.00	0.00	36.68
70.00	7.68	23.000	2.8852	6.94	39.648	0.000	0.0000	6.62	0.000	0.00	0.0000	5.62	0.00	0.00	0.0000	0.00	0.00	39.65
71.00	8.68	23.000	2.8852	7.94	42.408	0.000	0.0000	7.62	0.000	0.00	0.0000	6.62	0.00	0.00	0.0000	0.00	0.00	42.41
72.00	9.68	23.000	2.8852	8.94	45.000	0.000	0.0000	8.62	0.000	0.00	0.0000	7.62	0.00	0.00	0.0000	0.00	0.00	45.00

Discharge =  $Cd \times A \times (2gh)^{0.5}$

Where  $Cd=0.65$