Trapezoidal Flow Chart		
(Channel Slope = 0.73%, Bottom = 24", Height = 30", Side Slopes = 1.5:1)		
Flow Depth (in.)	Flow (cfs)	Flow (gpm)
0	0.0	0
1	0.3	135
2	1.1	494
3	2.2	987
4	3.6	1,616
5	5.3	2,379
6	7.4	3,321
7	9.8	4,399
8	12.5	5,610
9	15.6	7,002
10	19.0	8,528
11	22.8	10,233
12	27.0	12,118
13	31.6	14,183
14	36.6	16,427
15	42.0	18,851
16	47.8	21,454
17	54.1	24,282
18	60.9	27,334
19	68.1	30,565
20 1.66	75.7	33,976
21 1.75	83.9	37,657
22 1.83	92.6	41,562
23 1.91	101.7	45,646
24 2.0	111.4	50,000
25 2.08	121.6	54,578
26 2.16	132.4	59,425
27 2.25	143.7	64,497
28 2.33	155.5	69,793
29 2.41	168.0	75,403
30 2.5	181.0	81,238

7.4 cfs

27 cfs

112 cfs

slope = 0.0073

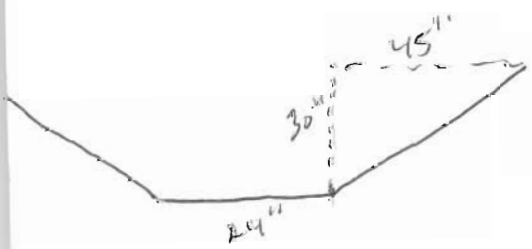
45+45+24 = 114"

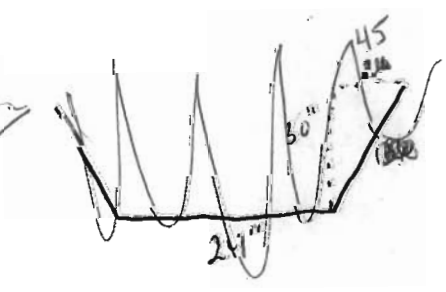
9.5' = top width

bottom w = 2'

height = 30" = 2.5'

n = 0.012 smooth concrete





Cooper TIRE

LARGE 60 DEGREE TRAPAZOIDAL FLUME

V-notch weir

HEAD IN F	CFS	GPS	GPM	MGD
0.08	0.00229	0.01715	1.02886	0.00148
0.09	0.00311	0.02324	1.39422	0.00201
0.10	0.00408	0.03050	1.82972	0.00263
0.11	0.00521	0.03900	2.33979	0.00337
0.12	0.00653	0.04882	2.92868	0.00422
0.13	0.00802	0.06002	3.60046	0.00518
0.14	0.00971	0.07266	4.35908	0.00628
0.15	0.01161	0.08682	5.20835	0.00750
0.16	0.01371	0.10255	6.15197	0.00886
0.17	0.01603	0.11991	7.19354	0.01036
0.18	0.01858	0.13896	8.33657	0.01201
0.19	0.02136	0.15976	9.58449	0.01380
0.20	0.02438	0.18237	10.94062	0.01576
0.21	0.02765	0.20683	12.40824	0.01787
0.22	0.03117	0.23321	13.99056	0.02015
0.23	0.03496	0.26155	15.69070	0.02260
0.24	0.03902	0.29190	17.51175	0.02522
0.25	0.04335	0.32432	19.45673	0.02802
0.26	0.04797	0.35886	21.52860	0.03100
0.27	0.05287	0.39556	23.73029	0.03417
0.28	0.05808	0.43447	26.06467	0.03753
0.29	0.06358	0.47564	28.53457	0.04109
0.30	0.06939	0.51912	31.14278	0.04485
0.31	0.07552	0.56494	33.89204	0.04881
0.32	0.08196	0.61317	36.78506	0.05297
0.33	0.08874	0.66383	39.82452	0.05735
0.34	0.09584	0.71698	43.01304	0.06194
0.35	0.10328	0.77266	46.35324	0.06675
0.36	0.11107	0.83091	49.84769	0.07178
0.37	0.11920	0.89177	53.49892	0.07704
0.38	0.12769	0.95529	57.30945	0.08253
0.39	0.13655	1.02150	61.28176	0.08825
0.40	0.14576	1.09045	65.41831	0.09421
0.41	0.15535	1.16218	69.72153	0.10040
0.42	0.16532	1.23673	74.19382	0.10684
0.43	0.17566	1.31413	78.83756	0.11353
0.44	0.18640	1.39444	83.65511	0.12047
0.45	0.19752	1.47768	88.64879	0.12766
0.46	0.20905	1.56389	93.82093	0.13511
0.47	0.22098	1.65312	99.17381	0.14282
0.48	0.23331	1.74540	104.70971	0.15079
0.49	0.24606	1.84076	110.43085	0.15903
0.50	0.25922	1.93925	116.33949	0.16754
0.51	0.27281	2.04090	122.43782	0.17632