

Appendix E

EXISTING UTILITIES & STORM DRAINAGE *Mulino Airport*

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description	
1	SBUH Runoff	12.49	6	474	179,033	---	----	----	Impervious area drainage	
2	SBUH Runoff	5.80	6	684	345,194	---	----	----	Est. T Total Basin CN-98/74	
3	Reservoir	5.47	6	978	250,826	2	241.89	116,696	Total Basin Routing	
4	Reservoir	5.32	6	528	217,605	1	239.10	65,695	Imperv. area Routing	
5	SBUH Runoff	14.69	6	546	670,722	---	----	----	Alt 1 Total Basin CN-98/74	
6	Reservoir	13.26	6	660	576,355	5	242.27	130,780	Alt 1 Basin Routing	
7	SBUH Runoff	6.28	6	672	366,880	---	----	----	Alt 2 Total Basin CN-98/74	
8	Reservoir	5.82	6	936	272,512	7	241.91	117,399	Alt 2 Basin Routing	
9	SBUH Runoff	7.34	6	648	412,865	---	----	----	Alt 3 Total Basin CN-98/74	
10	Reservoir	6.60	6	876	318,497	9	241.96	119,203	Alt 3 Basin Routing	
12	SBUH Runoff	11.74	6	486	289,206	---	----	----	Ttl Basin 2 CN-98/74	
13	Reservoir	4.41	6	882	194,838	12	241.82	114,434	Ttl Exist Basin 2 Rtg.	
14	SBUH Runoff	38.13	6	480	670,650	---	----	----	Alt 1 Basin 2 CN-98/74	
16	SBUH Runoff	12.99	6	486	306,613	---	----	----	Alt 2 Basin 2 CN-98/74	
est basin flows half pipe.gpw					Return Period: 2 Year			Monday, Aug 20 2007, 11:48 AM		

Hydraflow Hydrographs by Intellisolve

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
1	SBUH Runoff	17.77	6	474	257,540	---	----	-----	Impervious area drainage
2	SBUH Runoff	12.26	6	612	656,006	---	----	-----	Est. Total Basin CN=98/74
3	Reservoir	11.43	6	732	561,637	2	242.20	128,103	Total Basin Routing
4	Reservoir	0.00	6	0	0	1	238.04	0	Imperv. area Routing
5	SBUH Runoff	24.79	6	540	1,072,462	---	----	-----	Alt 1 Total Basin CN=98/74
6	Reservoir	21.26	6	666	978,095	5	243.09	162,395	Alt 1 Basin Routing
7	SBUH Runoff	13.05	6	606	686,064	---	----	-----	Alt 2 Total Basin CN=98/74
8	Reservoir	12.25	6	714	591,695	7	242.23	129,353	Alt 2 Basin Routing
9	SBUH Runoff	14.80	6	564	748,527	---	----	-----	Alt 3 Total Basin CN=98/74
10	Reservoir	13.87	6	690	654,158	9	242.30	131,948	Alt 3 Basin Routing
12	SBUH Runoff	25.64	6	486	532,402	---	----	-----	Ttl Basin 2 CN=98/74
13	Reservoir	11.29	6	582	438,034	12	242.19	127,777	Ttl Exist Basin 2 Rtg.
14	SBUH Runoff	56.17	6	480	990,806	---	----	-----	Alt 1 Basin 2 CN=98/74
16	SBUH Runoff	27.35	6	486	555,991	---	----	-----	Alt 2 Basin 2 CN=98/74
est basin flows half pipe.gpw					Return Period: 10 Year			Monday, Aug 20 2007, 11:48 AM	

Hydraflow Hydrographs by Intellisolve

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
1	SBUH Runoff	20.39	6	474	296,854	---	----	-----	Impervious area drainage
2	SBUH Runoff	16.08	6	570	826,671	---	----	-----	Est. Total Basin CN=98/74
3	Reservoir	15.30	6	684	732,303	2	242.36	134,212	Total Basin Routing
4	Reservoir	7.72	6	522	296,199	1	239.37	83,479	Imperv. area Routing
5	SBUH Runoff	30.01	6	540	1,278,911	---	----	-----	Alt 1 Total Basin CN=98/74
6	Reservoir	24.24	6	696	1,184,544	5	243.93	197,257	Alt 1 Basin Routing
7	SBUH Runoff	17.05	6	564	860,214	---	----	-----	Alt 2 Total Basin CN=98/74
8	Reservoir	16.20	6	672	765,846	7	242.40	135,448	Alt 2 Basin Routing
9	SBUH Runoff	19.09	6	558	929,433	---	----	-----	Alt 3 Total Basin CN=98/74
10	Reservoir	17.88	6	666	835,064	9	242.49	138,915	Alt 3 Basin Routing
12	SBUH Runoff	33.35	6	486	664,270	---	----	-----	Ttl Basin 2 CN=98/74
13	Reservoir	17.88	6	546	569,901	12	242.49	138,797	Ttl Exist Basin 2 Rtg.
14	SBUH Runoff	65.11	6	480	1,151,764	---	----	-----	Alt 1 Basin 2 CN=98/74
16	SBUH Runoff	35.23	6	486	690,240	---	----	-----	Alt 2 Basin 2 CN=98/74
est basin flows half pipe.gpw					Return Period: 25 Year			Monday, Aug 20 2007, 11:48 AM	

Hydraflow Hydrographs by Intellisolve

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description	
1	SBUH Runoff	25.62	6	474	375,545	---	----	-----	Impervious area drainage	
2	SBUH Runoff	24.65	6	558	1,188,007	---	----	-----	Est. Total Basin CN=98/74	
3	Reservoir	21.57	6	714	1,093,636	2	243.17	165,429	Total Basin Routing	
4	Reservoir	9.88	6	516	374,891	1	239.63	100,791	Imperv. area Routing	
5	SBUH Runoff	40.67	6	534	1,698,228	---	----	-----	Alt 1 Total Basin CN=98/74	
6	Reservoir	0.00	6	0	0	5	0.00	0	Alt 1 Basin Routing	
7	SBUH Runoff	25.85	6	552	1,227,416	---	----	-----	Alt 2 Total Basin CN=98/74	
8	Reservoir	22.27	6	720	1,133,047	7	243.34	172,393	Alt 2 Basin Routing	
9	SBUH Runoff	28.33	6	546	1,307,885	---	----	-----	Alt 3 Total Basin CN=98/74	
10	Reservoir	23.62	6	726	1,213,516	9	243.72	188,332	Alt 3 Basin Routing	
12	SBUH Runoff	49.69	6	486	941,211	---	----	-----	Ttl Basin 2 CN=98/74	
13	Reservoir	23.90	6	558	846,842	12	243.82	192,296	Ttl Exist Basin 2 Rtg.	
14	SBUH Runoff	82.88	6	480	1,474,696	---	----	-----	Alt 1 Basin 2 CN=98/74	
16	SBUH Runoff	51.85	6	486	971,297	---	----	-----	Alt 2 Basin 2 CN=98/74	
est basin flows half pipe.gpw					Return Period: 100 Year			Monday, Aug 20 2007, 11:48 AM		

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