

22 51 Swimming Pool Plumbing Systems

22 51 19 – Swimming Pool Water Treatment Equipment

		Daily Crew	Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
0010	SWIMMING POOL FILTRATION EQUIPMENT									
0900	Filter system, sand or diatomite type, incl. pump, 6,000 gal./hr.	2 Plum	1.80	8.889	Total	2,400	620		3,020	3,575
1020	Add for chlorination system, 800 S.F. pool		3	5.333	Ea.	267	370		637	850
1040	5,000 S.F. pool		3	5.333	"	2,025	370		2,395	2,775

22 52 Fountain Plumbing Systems

22 52 16 – Fountain Pumps

22 52 16.10 Fountain Water Pumps

0010	FOUNTAIN WATER PUMPS									
0100	Pump w/controls									
0200	Single phase, 100' cord, 1/2 HP pump	2 Skwk	4.40	3.636	Ea.	1,425	214		1,639	1,900
0300	3/4 HP pump		4.30	3.721		1,500	219		1,719	1,975
0400	1 HP pump		4.20	3.810		1,825	224		2,049	2,325
0500	1-1/2 HP pump		4.10	3.902		2,350	230		2,580	2,925
0600	2 HP pump		4	4		4,825	236		5,061	5,650
0700	Three phase, 200' cord, 5 HP pump		3.90	4.103		6,950	242		7,192	8,000
0800	7-1/2 HP pump		3.80	4.211		13,300	248		13,548	15,100
0900	10 HP pump		3.70	4.324		14,900	255		15,155	16,800
1000	15 HP pump		3.60	4.444		20,800	262		21,062	23,300
2000	DESIGN NOTE: Use two horsepower per surface acre.									

22 52 33 – Fountain Ancillary

22 52 33.10 Fountain Miscellaneous

0010	FOUNTAIN MISCELLANEOUS									
1300	Lights w/mounting kits, 200 watt	2 Skwk	18	.889	Ea.	1,225	52.50		1,277.50	1,425
1400	300 watt		18	.889		1,400	52.50		1,452.50	1,625
1500	500 watt		18	.889		1,650	52.50		1,702.50	1,875
1600	Color blender		12	1.333		625	78.50		703.50	805

22 66 Chemical-Waste Systems for Lab. and Healthcare Facilities

22 66 53 – Laboratory Chemical-Waste and Vent Piping

22 66 53.30 Glass Pipe

0010	GLASS PIPE , Borosilicate, couplings & clevis hanger assemblies, 10' OC									
0020	Drainage									
1100	1-1/2" diameter	Q-1	52	.308	L.F.	15	19.35		34.35	45.50
1120	2" diameter		44	.364		19.60	23		42.60	55.50
1140	3" diameter		39	.410		26	26		52	67.50
1160	4" diameter	Q-1	30	.533	L.F.	47	33.50		80.50	102
1180	6" diameter	"	26	.615	"	88.50	38.50		127	155

22 66 53.60 Corrosion Resistant Pipe

0010	CORROSION RESISTANT PIPE , No couplings or hangers									
0020	Iron alloy, drain, mechanical joint									
1000	1-1/2" diameter	Q-1	70	.229	L.F.	93	14.35		107.35	124
1100	2" diameter		66	.242		96	15.25		111.25	128
1120	3" diameter		60	.267		105	16.75		121.75	140
1140	4" diameter		52	.308		133	19.35		152.35	175
2980	Plastic, epoxy, fiberglass filament wound, B&S joint									
3000	2" diameter	Q-1	62	.258	L.F.	14.80	16.20		31	40.50
3100	3" diameter		51	.314		17.35	19.70		37.05	48.50