

Estimate of Materials and Cost of Construction

Date: 16/03/2025
Project: K SPA
Project Location: 660 12TH AVENUE NEW YORK,NY

SUBMITTED BY:

Sub Contractor's Company
Street Address
State address
Phone
Email
Website link

Summar	Amount
Subtotal \$	1,676,744
Profit/Overhead \$	419,186
Total \$	2,095,930

ITEM #	REF. SHEET	DETAIL	CSI SECT	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT LABOR COST	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERIAL COST	ITEM COST	TRADE COST
			DIV-02	EXISTING CONDITIONS										\$ 8,840
				SELECTIVE DEMOLITION										
1	SP100	SP100		Removal Of Existing Sprinkler Pipe	2380	0%	2,380	LF	2.000	\$ 4,760.0	\$ -	\$ -	\$ 4,760	
2	SP100	SP100		Removal Of Existing Sprinkler Head	252	0%	252	LF	15.000	\$ 3,780.0	\$ -	\$ -	\$ 3,780	
3	SP100	SP100		Fire Hose Cabinet Relocated	2	0%	2	LF	150.000	\$ 300.0	\$ -	\$ -	\$ 300	
			DIV-21	FIRE SUPPRESSION										\$ 189,707
				SPRINKLER PIPING BLACK STEEL SCH 40										
4	SP101-SP102	SP101-SP102		6" Sprinkler Pipe	197	10%	217	LF	20.000	\$ 4,340.0	\$ 64.00	\$ 13,888.0	\$ 18,228	
5	SP101-SP102	SP101-SP102		3" Sprinkler Pipe	23	10%	26	LF	14.000	\$ 364.0	\$ 34.00	\$ 884.0	\$ 1,248	
6	SP101-SP102	SP101-SP102		2-1/2" Sprinkler Pipe	545	10%	600	LF	12.000	\$ 7,200.0	\$ 30.00	\$ 18,000.0	\$ 25,200	
7	SP101-SP102	SP101-SP102		2" Sprinkler Pipe	307	10%	338	LF	10.000	\$ 3,380.0	\$ 28.00	\$ 9,464.0	\$ 12,844	
8	SP101-SP102	SP101-SP102		1-1/4" Sprinkler Pipe	149	10%	164	LF	10.000	\$ 1,640.0	\$ 24.00	\$ 3,936.0	\$ 5,576	
9	SP101-SP102	SP101-SP102		1-1/2" Sprinkler Pipe	300	10%	330	LF	12.000	\$ 3,960.0	\$ 26.00	\$ 8,580.0	\$ 12,540	
10	SP101-SP102	SP101-SP102		1" Sprinkler Pipe	2224	10%	2,447	LF	7.000	\$ 17,129.0	\$ 11.00	\$ 26,917.0	\$ 44,046	
				Fittings										
11	SP101-SP102	SP101-SP102		3" Dia Fittings	2	0%	2	EA	10.000	\$ 20.0	\$ 14.00	\$ 28.0	\$ 48	
12	SP101-SP102	SP101-SP102		2-1/2" Dia Fittings	64	0%	64	EA	10.000	\$ 640.0	\$ 14.00	\$ 896.0	\$ 1,536	
13	SP101-SP102	SP101-SP102		1-1/4" Dia Fittings	16	0%	16	EA	10.000	\$ 160.0	\$ 14.00	\$ 224.0	\$ 384	
14	SP101-SP102	SP101-SP102		2" Dia Fittings	39	0%	39	EA	10.000	\$ 390.0	\$ 12.00	\$ 468.0	\$ 858	
15	SP101-SP102	SP101-SP102		1-1/2" Dia Fittings	38	0%	38	EA	10.000	\$ 380.0	\$ 12.00	\$ 456.0	\$ 836	
16	SP101-SP102	SP101-SP102		1" Dia Fittings	54	0%	54	EA	10.000	\$ 540.0	\$ 12.00	\$ 648.0	\$ 1,188	
				SPRINKLER HEAD										
17	SP101-SP102	SP101-SP102		Concealed Sprinkler Head	313	0%	313	EA	50.000	\$ 15,650.0	\$ 125.00	\$ 39,125.0	\$ 54,775	
18	SP101-SP102	SP101-SP102		Upright Sprinkler Head	52	0%	52	EA	50.000	\$ 2,600.0	\$ 150.00	\$ 7,800.0	\$ 10,400	
			DIV-22	PLUMBING										\$ 1,478,197
				DOMESTIC WATER PIPING COPPER TYPE L										
19	P100-P300	P100-P300		4" Cold Water Pipe	81	10%	90	LF	18.000	\$ 1,620.0	\$ 68.00	\$ 6,120.0	\$ 7,740	
20	P100-P300	P100-P300		3" Cold Water Pipe	109	10%	120	LF	16.000	\$ 1,920.0	\$ 48.00	\$ 5,760.0	\$ 7,680	
21	P100-P300	P100-P300		3" Pool Makeup Water Pipe	324	10%	357	LF	16.000	\$ 5,712.0	\$ 48.00	\$ 17,136.0	\$ 22,848	
22	P100-P300	P100-P300		2-1/2" Cold Water Pipe	189	10%	209	LF	15.000	\$ 3,135.0	\$ 44.00	\$ 9,196.0	\$ 12,331	
23	P100-P300	P100-P300		2" Cold Water Pipe	59	10%	65	LF	14.000	\$ 910.0	\$ 34.00	\$ 2,210.0	\$ 3,120	
24	P100-P300	P100-P300		1-1/2" Cold Water Pipe	159	10%	175	LF	12.000	\$ 2,100.0	\$ 30.00	\$ 5,250.0	\$ 7,350	
25	P100-P300	P100-P300		1-1/4" Cold Water Pipe	366	10%	403	LF	10.000	\$ 4,030.0	\$ 18.00	\$ 7,254.0	\$ 11,284	
26	P100-P300	P100-P300		1" Cold Water Pipe	58	10%	65	LF	8.000	\$ 520.0	\$ 14.00	\$ 910.0	\$ 1,430	
27	P100-P300	P100-P300		3/4" Cold Water Pipe	92	10%	102	LF	7.000	\$ 714.0	\$ 11.00	\$ 1,122.0	\$ 1,836	
28	P100-P300	P100-P300		1/2" Cold Water Pipe	1046	10%	1,151	LF	6.000	\$ 6,906.0	\$ 9.00	\$ 10,359.0	\$ 17,265	
29	P100-P300	P100-P300		2-1/2" Hot Water Pipe	176	10%	194	LF	15.000	\$ 2,910.0	\$ 44.00	\$ 8,536.0	\$ 11,446	
30	P100-P300	P100-P300		2" Hot Water Pipe	158	10%	174	LF	14.000	\$ 2,436.0	\$ 34.00	\$ 5,916.0	\$ 8,352	
31	P100-P300	P100-P300		1-1/2" Hot Water Pipe	331	10%	365	LF	12.000	\$ 4,380.0	\$ 30.00	\$ 10,950.0	\$ 15,330	
32	P100-P300	P100-P300		1-1/4" Hot Water Pipe	250	10%	276	LF	10.000	\$ 2,760.0	\$ 18.00	\$ 4,968.0	\$ 7,728	
33	P100-P300	P100-P300		1" Hot Water Pipe	36	10%	40	LF	8.000	\$ 320.0	\$ 14.00	\$ 560.0	\$ 880	
34	P100-P300	P100-P300		1" Hot Water Return Pipe	308	10%	340	LF	8.000	\$ 2,720.0	\$ 14.00	\$ 4,760.0	\$ 7,480	
35	P100-P300	P100-P300		3/4" Hot Water Pipe	101	10%	112	LF	7.000	\$ 784.0	\$ 11.00	\$ 1,232.0	\$ 2,016	
36	P100-P300	P100-P300		3/4" Hot Water Return Pipe	474	10%	522	LF	7.000	\$ 3,654.0	\$ 11.00	\$ 5,742.0	\$ 9,396	
37	P100-P300	P100-P300		1/2" Hot Water Pipe	1055	10%	1,161	LF	6.000	\$ 6,966.0	\$ 9.00	\$ 10,449.0	\$ 17,415	
				Fittings										
38	P100-P300	P100-P300		4" Dia Fittings	3	0%	3	EA	10.000	\$ 30.0	\$ 18.00	\$ 54.0	\$ 84	
39	P100-P300	P100-P300		3" Dia Fittings	12	0%	12	EA	10.000	\$ 120.0	\$ 16.00	\$ 192.0	\$ 312	
40	P100-P300	P100-P300		2-1/2" Dia Fittings	20	0%	20	EA	10.000	\$ 200.0	\$ 16.00	\$ 320.0	\$ 520	

ITEM #	REF. SHEET	DETAIL	CSI SECT	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT LABOR COST	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERIAL COST	ITEM COST	TRADE COST
41	P100-P300	P100-P300		2" Dia Fittings	12	0%	12	EA	10.000	\$ 120.0	\$ 14.00	\$ 168.0	\$ 288	
42	P100-P300	P100-P300		1-1/2" Dia Fittings	30	0%	30	EA	10.000	\$ 300.0	\$ 14.00	\$ 420.0	\$ 720	
43	P100-P300	P100-P300		1-1/4" Dia Fittings	73	0%	73	EA	10.000	\$ 730.0	\$ 14.00	\$ 1,022.0	\$ 1,752	
44	P100-P300	P100-P300		1" Dia Fittings	17	0%	17	EA	10.000	\$ 170.0	\$ 12.00	\$ 204.0	\$ 374	
45	P100-P300	P100-P300		3/4" Dia Fittings	19	0%	19	EA	10.000	\$ 190.0	\$ 12.00	\$ 228.0	\$ 418	
46	P100-P300	P100-P300		1/2" Dia Fittings	34	0%	34	EA	10.000	\$ 340.0	\$ 12.00	\$ 408.0	\$ 748	
				Insulation										
47	P100-P300	P100-P300		1" Thick Fiberglass Insulation For Cold Water Pipes	2483	10%	2,732	LF	2.000	\$ 5,464.0	\$ 2.65	\$ 7,239.8	\$ 12,704	
48	P100-P300	P100-P300		1" Thick Fiberglass Insulation For Hot Water Pipes	2890	10%	3,179	LF	2.000	\$ 6,358.0	\$ 2.65	\$ 8,424.4	\$ 14,782	
				VALVE & DEVICES										
49	P100-P300	P100-P300		4" Water Meter	1	0%	1	EA	150.000	\$ 150.0	\$ 1,250.00	\$ 1,250.0	\$ 1,400	
50	P100-P300	P100-P300		4" OS& Y Valve	2	0%	2	EA	50.000	\$ 100.0	\$ 350.00	\$ 700.0	\$ 800	
51	P100-P300	P100-P300		3" RPZ	1	0%	1	EA	300.000	\$ 300.0	\$ 3,500.00	\$ 3,500.0	\$ 3,800	
52	P100-P300	P100-P300		Controller/Temp Indicating Module	2	0%	2	EA	200.000	\$ 400.0	\$ 800.00	\$ 1,600.0	\$ 2,000	
53	P100-P300	P100-P300		Supply Water Sensor	2	0%	2	EA	50.000	\$ 100.0	\$ 350.00	\$ 700.0	\$ 800	
54	P100-P300	P100-P300		Electronic Tempering Valve Heat Timer	2	0%	2	EA	100.000	\$ 200.0	\$ 3,500.00	\$ 7,000.0	\$ 7,200	
55	P100-P300	P100-P300		Aquastat	1	0%	1	EA	50.000	\$ 50.0	\$ 150.00	\$ 150.0	\$ 200	
56	P100-P300	P100-P300		Temprature Gauge	9	0%	9	EA	35.000	\$ 315.0	\$ 55.00	\$ 495.0	\$ 810	
57	P100-P300	P100-P300		1/2" Ball Valve	162	0%	162	EA	35.000	\$ 5,670.0	\$ 55.00	\$ 8,910.0	\$ 14,580	
58	P100-P300	P100-P300		3/4" Ball Valve	20	0%	20	EA	35.000	\$ 700.0	\$ 65.00	\$ 1,300.0	\$ 2,000	
59	P100-P300	P100-P300		3/4" Check Valve	7	0%	7	EA	35.000	\$ 245.0	\$ 75.00	\$ 525.0	\$ 770	
60	P100-P300	P100-P300		1" Shut Off Valve	2	0%	2	EA	35.000	\$ 70.0	\$ 75.00	\$ 150.0	\$ 220	
61	P100-P300	P100-P300		1" Check Valve	6	0%	6	EA	35.000	\$ 210.0	\$ 85.00	\$ 510.0	\$ 720	
62	P100-P300	P100-P300		1" Ball Valve	10	0%	10	EA	35.000	\$ 350.0	\$ 80.00	\$ 800.0	\$ 1,150	
63	P100-P300	P100-P300		1-1/4" Ball Valve	22	0%	22	EA	40.000	\$ 880.0	\$ 110.00	\$ 2,420.0	\$ 3,300	
64	P100-P300	P100-P300		1-1/2" Rpz With Sub Meter	2	0%	2	EA	200.000	\$ 400.0	\$ 1,850.00	\$ 3,700.0	\$ 4,100	
65	P100-P300	P100-P300		2-1/2" Shut Off Valve	23	0%	23	EA	50.000	\$ 1,150.0	\$ 150.00	\$ 3,450.0	\$ 4,600	
66	P100-P300	P100-P300		2-1/2" Check Valve	1	0%	1	EA	50.000	\$ 50.0	\$ 175.00	\$ 175.0	\$ 225	
67	P100-P300	P100-P300		2-1/2" Union	8	0%	8	EA	15.000	\$ 120.0	\$ 40.00	\$ 320.0	\$ 440	
68	P100-P300	P100-P300		T&P Relief Valve	4	0%	4	EA	50.000	\$ 200.0	\$ 150.00	\$ 600.0	\$ 800	
69	P100-P300	P100-P300		6" Gas Meter	1	0%	1	EA	150.000	\$ 150.0	\$ 2,500.00	\$ 2,500.0	\$ 2,650	
70	P100-P300	P100-P300		1-1/2" Gas Cock	4	0%	4	EA	50.000	\$ 200.0	\$ 150.00	\$ 600.0	\$ 800	
71	P100-P300	P100-P300		2" Gas Cock	6	0%	6	EA	50.000	\$ 300.0	\$ 175.00	\$ 1,050.0	\$ 1,350	
72	P100-P300	P100-P300		2" Gas Solenoid Valve	1	0%	1	EA	50.000	\$ 50.0	\$ 350.00	\$ 350.0	\$ 400	
73	P100-P300	P100-P300		4" Gas Cock	2	0%	2	EA	50.000	\$ 100.0	\$ 200.00	\$ 400.0	\$ 500	
74	P100-P300	P100-P300		6" Gas Cock	2	0%	2	EA	50.000	\$ 100.0	\$ 250.00	\$ 500.0	\$ 600	
				WASTE AND VENT PIPING CAST IRON NON HUB										
75	P100-P300	P100-P300		4" Waste Pipe	1591	10%	1,751	LF	14.000	\$ 24,514.0	\$ 34.00	\$ 59,534.0	\$ 84,048	
76	P100-P300	P100-P300		3" Waste Pipe	257	10%	283	LF	12.000	\$ 3,396.0	\$ 30.00	\$ 8,490.0	\$ 11,886	
77	P100-P300	P100-P300		3" Vent Pipe	647	10%	712	LF	12.000	\$ 8,544.0	\$ 30.00	\$ 21,360.0	\$ 29,904	
78	P100-P300	P100-P300		2" Waste Pipe	171	10%	189	LF	10.000	\$ 1,890.0	\$ 24.00	\$ 4,536.0	\$ 6,426	
79	P100-P300	P100-P300		2" Vent Pipe	1098	10%	1,208	LF	10.000	\$ 12,080.0	\$ 24.00	\$ 28,992.0	\$ 41,072	
80	P100-P300	P100-P300		1-1/2" Waste Pipe	117	10%	129	LF	8.000	\$ 1,032.0	\$ 20.00	\$ 2,580.0	\$ 3,612	
81	P100-P300	P100-P300		1-1/2" Vent Pipe	574	10%	632	LF	8.000	\$ 5,056.0	\$ 20.00	\$ 12,640.0	\$ 17,696	
				Fittings										
82	P100-P300	P100-P300		1-1/2" Dia Fittings	32	0%	32	EA	10.000	\$ 320.0	\$ 12.00	\$ 384.0	\$ 704	
83	P100-P300	P100-P300		2" Dia Fittings	55	0%	55	EA	10.000	\$ 550.0	\$ 12.00	\$ 660.0	\$ 1,210	
84	P100-P300	P100-P300		3" Dia Fittings	75	0%	75	EA	10.000	\$ 750.0	\$ 12.00	\$ 900.0	\$ 1,650	
85	P100-P300	P100-P300		4" Dia Fittings	111	0%	111	EA	10.000	\$ 1,110.0	\$ 14.00	\$ 1,554.0	\$ 2,664	
				STORM PIPING CAST IRON NON HUB										
86	P100-P300	P100-P300		4" Storm Pipe	230	10%	253	LF	14.000	\$ 3,542.0	\$ 34.00	\$ 8,602.0	\$ 12,144	
				Fittings										
87	P100-P300	P100-P300		4" Dia Fittings	2	0%	2	EA	10.000	\$ 20.0	\$ 14.00	\$ 28.0	\$ 48	
				GAS PIPING										
88	P100-P300	P100-P300		6" Gas Pipe	73	10%	81	LF	20.000	\$ 1,620.0	\$ 78.00	\$ 6,318.0	\$ 7,938	
89	P100-P300	P100-P300		4" Gas Pipe	42	10%	47	LF	18.000	\$ 846.0	\$ 68.00	\$ 3,196.0	\$ 4,042	
90	P100-P300	P100-P300		2" Gas Pipe	52	10%	58	LF	12.000	\$ 696.0	\$ 30.00	\$ 1,740.0	\$ 2,436	
91	P100-P300	P100-P300		1-1/2" Gas Pipe	38	10%	42	LF	10.000	\$ 420.0	\$ 28.00	\$ 1,176.0	\$ 1,596	
				Fittings										
92	P100-P300	P100-P300		6" Dia Fittings	2	0%	2	EA	10.000	\$ 20.0	\$ 18.00	\$ 36.0	\$ 56	
93	P100-P300	P100-P300		4" Dia Fittings	3	0%	3	EA	10.000	\$ 30.0	\$ 14.00	\$ 42.0	\$ 72	
94	P100-P300	P100-P300		2" Dia Fittings	6	0%	6	EA	10.000	\$ 60.0	\$ 12.00	\$ 72.0	\$ 132	
95	P100-P300	P100-P300		1-1/2" Dia Fittings	4	0%	4	EA	10.000	\$ 40.0	\$ 12.00	\$ 48.0	\$ 88	

ITEM #	REF. SHEET	DETAIL	CSI SECT	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT LABOR COST	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERIAL COST	ITEM COST	TRADE COST
PLUMBING SPECIALITY FIXTURES														
96	P100-P300	P100-P300		Lint Interceptor	1	0%	1	EA	100.000	\$ 100.0	\$ 750.00	\$ 750.0	\$ 850	
97	P100-P300	P100-P300		Grease Interceptor ZURN # Z1170	1	0%	1	EA	200.000	\$ 200.0	\$ 2,500.00	\$ 2,500.0	\$ 2,700	
98	P100-P300	P100-P300		3" Floor Drain	25	0%	25	EA	50.000	\$ 1,250.0	\$ 150.00	\$ 3,750.0	\$ 5,000	
99	P100-P300	P100-P300		4" Floor Drain	15	0%	15	EA	50.000	\$ 750.0	\$ 200.00	\$ 3,000.0	\$ 3,750	
100	P100-P300	P100-P300		4" Cleanout	36	0%	36	EA	50.000	\$ 1,800.0	\$ 175.00	\$ 6,300.0	\$ 8,100	
101	P100-P300	P100-P300		3" Cleanout	12	0%	12	EA	50.000	\$ 600.0	\$ 125.00	\$ 1,500.0	\$ 2,100	
102	P100-P300	P100-P300		4" Trench Drain	9	0%	9	EA	50.000	\$ 450.0	\$ 300.00	\$ 2,700.0	\$ 3,150	
103	P100-P300	P100-P300		Floor Sink	1	0%	1	EA	50.000	\$ 50.0	\$ 350.00	\$ 350.0	\$ 400	
104	P100-P300	P100-P300		4" Roof Drain	8	0%	8	EA	50.000	\$ 400.0	\$ 350.00	\$ 2,800.0	\$ 3,200	
				Manf & Models Are Not Given										
PLUMBING FIXTURES														
105	P100-P300	P100-P300		Water Closet	22	0%	22	EA	250.000	\$ 5,500.0	\$ 925.00	\$ 20,350.0	\$ 25,850	
106	P100-P300	P100-P300		Lavatory	39	0%	39	EA	225.000	\$ 8,775.0	\$ 825.00	\$ 32,175.0	\$ 40,950	
107	P100-P300	P100-P300		Urinal	4	0%	4	EA	200.000	\$ 800.0	\$ 850.00	\$ 3,400.0	\$ 4,200	
108	P100-P300	P100-P300		Shower	28	0%	28	EA	300.000	\$ 8,400.0	\$ 1,800.00	\$ 50,400.0	\$ 58,800	
109	P100-P300	P100-P300		Sink	6	0%	6	EA	200.000	\$ 1,200.0	\$ 750.00	\$ 4,500.0	\$ 5,700	
110	P100-P300	P100-P300		Laundry Sink	1	0%	1	EA	250.000	\$ 250.0	\$ 850.00	\$ 850.0	\$ 1,100	
111	P100-P300	P100-P300		Hand Sink	1	0%	1	EA	200.000	\$ 200.0	\$ 750.00	\$ 750.0	\$ 950	
112	P100-P300	P100-P300		3-Comp Sink	1	0%	1	EA	300.000	\$ 300.0	\$ 1,800.00	\$ 1,800.0	\$ 2,100	
113	P100-P300	P100-P300		Drinking Fountain	2	0%	2	EA	200.000	\$ 400.0	\$ 3,500.00	\$ 7,000.0	\$ 7,400	
				Manf & Models Are Not Given										
PLUMBING EQUIPMENTS														
114	P100-P300	P100-P300		119 Gallon Gas Water Heater EWH1,2 Manf/Model: TURBOMAX	4	0%	4	EA	500.000	\$ 2,000.0	\$ 7,500.00	\$ 30,000.0	\$ 32,000	
115	P100-P300	P100-P300		Recirculation Pump 1/3 Hp CRP-1 Manf/Model: B & G # 1X1X5-1/4	1	0%	1	EA	100.000	\$ 100.0	\$ 750.00	\$ 750.0	\$ 850	
116	P100-P300	P100-P300		Expansion Tank Manf/Model: NA	1	0%	1	EA	100.000	\$ 100.0	\$ 650.00	\$ 650.0	\$ 750	
LEAK DETECTION														
117	P100-P300	P100-P300		Leak Detection Base Station	1	0%	1	EA	100.000	\$ 100.0	\$ 750.00	\$ 750.0	\$ 850	
118	P100-P300	P100-P300		Leak Detection Hub Wireless	3	0%	3	EA	50.000	\$ 150.0	\$ 350.00	\$ 1,050.0	\$ 1,200	
119	P100-P300	P100-P300		Leak Sensor Wireless	8	0%	8	EA	50.000	\$ 400.0	\$ 150.00	\$ 1,200.0	\$ 1,600	
120	P100-P300	P100-P300		10' Leak Sensing Cable DTSC-10D	9	0%	9	EA	20.000	\$ 180.0	\$ 60.00	\$ 540.0	\$ 720	
121	P100-P300	P100-P300		50' Leak Sensing Cable DTSC-50D	10	0%	10	EA	100.000	\$ 1,000.0	\$ 150.00	\$ 1,500.0	\$ 2,500	
ALLOWANCE														
122	P100-P300	P100-P300		Allowance For Welding,Joining Etc	1	0%	1	EA	\$ 10,000.0	\$ 10,000.0	\$ -	\$ -	\$ 10,000	
BOILER WORK														
PIPING														
123	M200	M200		6" Hot Water Supply & Return Piping	39	10%	43	LF	18.000	\$ 774.0	\$ 68.00	\$ 2,924.0	\$ 3,698	
124	M200	M200		4" Hot Water Supply & Return Piping	423	10%	466	LF	22.000	\$ 10,252.0	\$ 96.00	\$ 44,736.0	\$ 54,988	
125	M200	M200		3" Hot Water Supply & Return Piping	10	10%	12	LF	16.000	\$ 192.0	\$ 48.00	\$ 576.0	\$ 768	
Insulation														
126	M200	M200		1" Thick Fiberglass Insulation For Hot Water Pipes	1012	10%	1,114	SF	2.500	\$ 2,785.0	\$ 2.65	\$ 2,952.1	\$ 5,737	
Fittings														
127	M200	M200		6" Dia Fittings	9	0%	9	EA	10.000	\$ 90.0	\$ 18.00	\$ 162.0	\$ 252	
128	M200	M200		4" Dia Fittings	24	0%	24	EA	10.000	\$ 240.0	\$ 16.00	\$ 384.0	\$ 624	
129	M200	M200		3" Dia Fittings	2	0%	2	EA	10.000	\$ 20.0	\$ 12.00	\$ 24.0	\$ 44	
BOILER														
130	M200	M200		Boiler 1999 MBH B-1,2 Manf/Model: LAARS # MAGNATHERM MGH 200	2	0%	2	EA	500.000	\$ 1,000.0	\$ 15,000.00	\$ 30,000.0	\$ 31,000	
PUMP														
131	M200	M200		Pump 3 Hp P-1,2 Manf/Model: ARMSTRONG # 4380 0205H-003.0	2	0%	2	EA	200.000	\$ 400.0	\$ 9,100.00	\$ 18,200.0	\$ 18,600	
132	M200	M200		Pump 7.5 Hp P-3,4 Manf/Model: ARMSTRONG # 4380 2505-007.5	2	0%	2	EA	200.000	\$ 400.0	\$ 9,400.00	\$ 18,800.0	\$ 19,200	
133	M200	M200		Pump 2 Hp P-5,6 Manf/Model: ARMSTRONG # 4380 0205H-002.0	2	0%	2	EA	200.000	\$ 400.0	\$ 8,450.00	\$ 16,900.0	\$ 17,300	

ITEM #	REF. SHEET	DETAIL	CSI SECT	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT LABOR COST	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERIAL COST	ITEM COST	TRADE COST
				POOL WORK										
				PIPING										
134	SPA100-SPA210	SPA100-SPA210		4" Pool Supply Pipe	65	10%	72	LF	18.000	\$ 1,296.0	\$ 68.00	\$ 4,896.0	\$ 6,192	
135	SPA100-SPA210	SPA100-SPA210		4" Pool Return Pipe	65	10%	72	LF	18.000	\$ 1,296.0	\$ 68.00	\$ 4,896.0	\$ 6,192	
136	SPA100-SPA210	SPA100-SPA210		3" Pool Supply Pipe	1985	10%	2,184	LF	16.000	\$ 34,944.0	\$ 48.00	\$ 104,832.0	\$ 139,776	
137	SPA100-SPA210	SPA100-SPA210		3" Pool Return Pipe	1210	10%	1,332	LF	16.000	\$ 21,312.0	\$ 48.00	\$ 63,936.0	\$ 85,248	
138	SPA100-SPA210	SPA100-SPA210		2-1/2" Pool Supply Pipe	191	10%	210	LF	15.000	\$ 3,150.0	\$ 44.00	\$ 9,240.0	\$ 12,390	
139	SPA100-SPA210	SPA100-SPA210		2-1/2" Pool Return Pipe	51	10%	56	LF	15.000	\$ 840.0	\$ 44.00	\$ 2,464.0	\$ 3,304	
140	SPA100-SPA210	SPA100-SPA210		2" Pool Supply Pipe	542	10%	597	LF	14.000	\$ 8,358.0	\$ 34.00	\$ 20,298.0	\$ 28,656	
141	SPA100-SPA210	SPA100-SPA210		2" Pool Return Pipe	250	10%	276	LF	14.000	\$ 3,864.0	\$ 34.00	\$ 9,384.0	\$ 13,248	
142	SPA100-SPA210	SPA100-SPA210		2" Brine Water Pipe	178	10%	196	LF	14.000	\$ 2,744.0	\$ 34.00	\$ 6,664.0	\$ 9,408	
143	SPA100-SPA210	SPA100-SPA210		1" Brine Water Pipe	81	10%	89	LF	8.000	\$ 712.0	\$ 14.00	\$ 1,246.0	\$ 1,958	
144	SPA100-SPA210	SPA100-SPA210		1" Steam Pipe	33	10%	36	LF	8.000	\$ 288.0	\$ 14.00	\$ 504.0	\$ 792	
				Fittings										
145	SPA100-SPA210	SPA100-SPA210		4" Dia Fittings	8	0%	8	EA	10.000	\$ 80.0	\$ 16.00	\$ 128.0	\$ 208	
146	SPA100-SPA210	SPA100-SPA210		3" Dia Fittings	188	0%	188	EA	10.000	\$ 1,880.0	\$ 14.00	\$ 2,632.0	\$ 4,512	
147	SPA100-SPA210	SPA100-SPA210		2-1/2" Dia Fittings	9	0%	9	EA	10.000	\$ 90.0	\$ 14.00	\$ 126.0	\$ 216	
148	SPA100-SPA210	SPA100-SPA210		2" Dia Fittings	78	0%	78	EA	10.000	\$ 780.0	\$ 12.00	\$ 936.0	\$ 1,716	
149	SPA100-SPA210	SPA100-SPA210		1" Dia Fittings	6	0%	6	EA	10.000	\$ 60.0	\$ 12.00	\$ 72.0	\$ 132	
				SPECIALITY FIXTURES										
150	SPA100-SPA210	SPA100-SPA210		Supply Nozzle	33	0%	33	EA	50.000	\$ 1,650.0	\$ 250.00	\$ 8,250.0	\$ 9,900	
151	SPA100-SPA210	SPA100-SPA210		Pool Return Drain	26	0%	26	EA	50.000	\$ 1,300.0	\$ 350.00	\$ 9,100.0	\$ 10,400	
152	SPA100-SPA210	SPA100-SPA210		Return Skimmer	15	0%	15	EA	50.000	\$ 750.0	\$ 300.00	\$ 4,500.0	\$ 5,250	
153	SPA100-SPA210	SPA100-SPA210		Floor Sink	3	0%	3	EA	50.000	\$ 150.0	\$ 350.00	\$ 1,050.0	\$ 1,200	
154	SPA100-SPA210	SPA100-SPA210		4" Floor Drain	6	0%	6	EA	50.000	\$ 300.0	\$ 250.00	\$ 1,500.0	\$ 1,800	
155	SPA100-SPA210	SPA100-SPA210		Steam Outlet	1	0%	1	EA	50.000	\$ 50.0	\$ 200.00	\$ 200.0	\$ 250	
				VALVES										
156	SPA100-SPA210	SPA100-SPA210		2" Shut Off Valve	8	0%	8	EA	50.000	\$ 400.0	\$ 150.00	\$ 1,200.0	\$ 1,600	
157	SPA100-SPA210	SPA100-SPA210		2" Motorized Valve	8	0%	8	EA	50.000	\$ 400.0	\$ 350.00	\$ 2,800.0	\$ 3,200	
158	SPA100-SPA210	SPA100-SPA210		2" Safety Shut Off Valve	32	0%	32	EA	50.000	\$ 1,600.0	\$ 200.00	\$ 6,400.0	\$ 8,000	
159	SPA100-SPA210	SPA100-SPA210		2" Balancing Valve	8	0%	8	EA	50.000	\$ 400.0	\$ 200.00	\$ 1,600.0	\$ 2,000	
160	SPA100-SPA210	SPA100-SPA210		3" Shut Off Valve	24	0%	24	EA	50.000	\$ 1,200.0	\$ 250.00	\$ 6,000.0	\$ 7,200	
161	SPA100-SPA210	SPA100-SPA210		Pressure Gauge With Valve	32	0%	32	EA	50.000	\$ 1,600.0	\$ 150.00	\$ 4,800.0	\$ 6,400	
162	SPA100-SPA210	SPA100-SPA210		Thermometer	16	0%	16	EA	35.000	\$ 560.0	\$ 55.00	\$ 880.0	\$ 1,440	
163	SPA100-SPA210	SPA100-SPA210		Air Vent	16	0%	16	EA	40.000	\$ 640.0	\$ 125.00	\$ 2,000.0	\$ 2,640	
164	SPA100-SPA210	SPA100-SPA210		1" Auto Drain Motorized Valve	1	0%	1	EA	50.000	\$ 50.0	\$ 150.00	\$ 150.0	\$ 200	
165	SPA100-SPA210	SPA100-SPA210		Solenoid Valve SV1-SV8	8	0%	8	EA	50.000	\$ 400.0	\$ 450.00	\$ 3,600.0	\$ 4,000	
166	SPA100-SPA210	SPA100-SPA210		Makeup Control Valve MV1-MV8 Manf & Model: EHH27ATE25	8	0%	8	EA	50.000	\$ 400.0	\$ 850.00	\$ 6,800.0	\$ 7,200	
167	SPA100-SPA210	SPA100-SPA210		Temprature Control Valve MV9-MV16	8	0%	8	EA	50.000	\$ 400.0	\$ 850.00	\$ 6,800.0	\$ 7,200	
				CIRCULATION PUMPS										
168	SPA100-SPA210	SPA100-SPA210		Pump 5 Hp P-1A,P1B Manf/Model: PENTAIR # WHISPERFLXF VS 5HP	2	0%	2	EA	300.000	\$ 600.0	\$ 4,200.00	\$ 8,400.0	\$ 9,000	
169	SPA100-SPA210	SPA100-SPA210		Pump 1 Hp P2 Manf/Model: PENTAIR # WHISPERFLXF 1HP WFK-4	1	0%	1	EA	200.000	\$ 200.0	\$ 1,150.00	\$ 1,150.0	\$ 1,350	
170	SPA100-SPA210	SPA100-SPA210		Pump 1.5 Hp P3 Manf/Model: PENTAIR # WHISPERFLXF 1.5HP WFK-6	1	0%	1	EA	200.000	\$ 200.0	\$ 1,825.00	\$ 1,825.0	\$ 2,025	
171	SPA100-SPA210	SPA100-SPA210		Pump 1 Hp P4 Manf/Model: PENTAIR # WHISPERFLXF 1HP WFK-4	1	0%	1	EA	200.000	\$ 200.0	\$ 1,150.00	\$ 1,150.0	\$ 1,350	
172	SPA100-SPA210	SPA100-SPA210		Pump 1.5 Hp P5 Manf/Model: PENTAIR # WHISPERFLXF 1.5HP WFK-6	1	0%	1	EA	200.000	\$ 200.0	\$ 1,825.00	\$ 1,825.0	\$ 2,025	
173	SPA100-SPA210	SPA100-SPA210		Pump 5 Hp P-6A,P6B Manf/Model: PENTAIR # WHISPERFLXF VS 5HP	2	0%	2	EA	300.000	\$ 600.0	\$ 4,200.00	\$ 8,400.0	\$ 9,000	
174	SPA100-SPA210	SPA100-SPA210		Pump 3 Hp P7,P8 Manf/Model: PENTAIR # WHISPERFLXF 3HP WFK-12	2	0%	2	EA	35.000	\$ 70.0	\$ 2,250.00	\$ 4,500.0	\$ 4,570	
				MASSAGE PUMPS										
175	SPA100-SPA210	SPA100-SPA210		Pump 5 Hp MP1-MP4 Manf/Model: PENTAIR # WHISPERFLXF VS 5HP	4	0%	4	EA	300.000	\$ 1,200.0	\$ 4,200.00	\$ 16,800.0	\$ 18,000	
				SHOWER PUMPS										
176	SPA100-SPA210	SPA100-SPA210		Pump 3 Hp SP1-SP5 Manf/Model: GRUNDFOS # TP 80-240/2 A-G-Z-BUBE-1X2	5	0%	5	EA	300.000	\$ 1,500.0	\$ 6,200.00	\$ 31,000.0	\$ 32,500	

ITEM #	REF. SHEET	DETAIL	CSI SECT	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT LABOR COST	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERIAL COST	ITEM COST	TRADE COST
WATER FEATURE PUMP														
177	SPA100-SPA210	SPA100-SPA210		Pump 5 Hp WP1 Manf/Model: PENTAIR # EQW500	1	0%	1	EA	300.000	\$ 300.0	\$ 7,600.00	\$ 7,600.0	\$ 7,900	
CIRCULATION FILTERS														
178	SPA100-SPA210	SPA100-SPA210		Circulation Sand Filter 260 GPM F1A,F1B Manf/Model: THS3461	2	0%	2	EA	500.000	\$ 1,000.0	\$ 14,500.00	\$ 29,000.0	\$ 30,000	
179	SPA100-SPA210	SPA100-SPA210		Circulation Sand Filter 50 GPM F2 Manf/Model: TR60	1	0%	1	EA	200.000	\$ 200.0	\$ 3,200.00	\$ 3,200.0	\$ 3,400	
180	SPA100-SPA210	SPA100-SPA210		Circulation Sand Filter 80 GPM F3 Manf/Model: TR140C	1	0%	1	EA	200.000	\$ 200.0	\$ 3,800.00	\$ 3,800.0	\$ 4,000	
181	SPA100-SPA210	SPA100-SPA210		Circulation Sand Filter 50 GPM F4 Manf/Model: TR60	1	0%	1	EA	200.000	\$ 200.0	\$ 3,200.00	\$ 3,200.0	\$ 3,400	
182	SPA100-SPA210	SPA100-SPA210		Circulation Sand Filter 80 GPM F5 Manf/Model: TR140C	1	0%	1	EA	200.000	\$ 200.0	\$ 3,800.00	\$ 3,800.0	\$ 4,000	
183	SPA100-SPA210	SPA100-SPA210		Circulation Sand Filter 260 GPM F6A,F6B Manf/Model: THS3461	2	0%	2	EA	500.000	\$ 1,000.0	\$ 14,500.00	\$ 29,000.0	\$ 30,000	
184	SPA100-SPA210	SPA100-SPA210		Circulation Sand Filter 150 GPM F7 Manf/Model: TR140C	1	0%	1	EA	200.000	\$ 200.0	\$ 6,500.00	\$ 6,500.0	\$ 6,700	
185	SPA100-SPA210	SPA100-SPA210		Circulation Sand Filter 50 GPM F8A,F8B Manf/Model: TR60	2	0%	2	EA	200.000	\$ 400.0	\$ 3,200.00	\$ 6,400.0	\$ 6,800	
STEAM GENERATOR														
186	SPA100-SPA210	SPA100-SPA210		Steam Generator 28 Kw SG1 Manf/Model: AMEREC # AI-48-480	1	0%	1	EA	500.000	\$ 500.0	\$ 13,000.00	\$ 13,000.0	\$ 13,500	
BLOWDOWN TANK														
187	SPA100-SPA210	SPA100-SPA210		Blowdown Tank BT1 Manf/Model: DELTA # 5COM-GA-007	1	0%	1	EA	300.000	\$ 300.0	\$ 3,900.00	\$ 3,900.0	\$ 4,200	
HEAT EXCHANGERS														
188	SPA100-SPA210	SPA100-SPA210		Heat Exchanger 650,000 Btu HX1,HX6 Manf/Model: BOWMAN # CN650	2	0%	2	EA	200.000	\$ 400.0	\$ 3,500.00	\$ 7,000.0	\$ 7,400	
189	SPA100-SPA210	SPA100-SPA210		Heat Exchanger 200,000 Btu HX7,HX8 Manf/Model: BOWMAN # CN135	2	0%	2	EA	200.000	\$ 400.0	\$ 2,200.00	\$ 4,400.0	\$ 4,800	
190	SPA100-SPA210	SPA100-SPA210		Heat Exchanger 135,000 Btu HX2,HX3,HX4,HX5 Manf/Model: BOWMAN # CN135	4	0%	4	EA	200.000	\$ 800.0	\$ 1,850.00	\$ 7,400.0	\$ 8,200	
SUB TOTAL										Total Lab. Cost =	\$ 381,670	Total Mat. Cost =	\$ 1,295,074	\$ 1,676,744
INSURANCE										0%			\$ -	\$ -
OVERHEAD AND PROFIT										25%			\$ 419,186	\$ 419,186
TOTAL BASE BID													\$ 2,095,930	\$ 2,095,930

General Notes: The prices used while preparing the estimate were taken from RSMeans online i.e. the standard pricing & the company is not responsible for any kind of variations in the prices. So, it is preferred to review the prices.

Note

- The drawings are scaled as per the mentioned scales on the plans.
- The prices used are standard prices, unless otherwise noted.

Exclusions

- Union Wages

Legend

F.C = Waste or diff. factor
sf = square feet
lf = linear feet
ea = each
cy = cubic yard
sy = square yard
loc = location
ls = lump sum