RBC ESTIMATION
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Project Name:	Location:	Scope of Work:	Building Type:
Plumbing Sample 01	WASHINGTON D.C.	PLUMBING	COMMERCIAL

#	DESCRIPTION	QTY.	UNIT	TOTAL QTY.	UNIT COST	TOTAL COST
01. GENERAL CONDITIONS						
INDIRECT PROJECT COSTS						
1	General Liability Insurance	0	Mo	0	-	-
2	General Conditions (Backoffice Overhead)	0	Mo	0	-	-
DIRECT PROJECT COSTS						
3	Bonding Fee (If required)	1.15	Mo	1.15	-	-
4	Access Control (Pipe Scaffolding or Boom/Scissor Lifts)	1	Mo	1	-	-
5	Equipment Rental	1	Mo	1	-	-
6	Travel, Tools, Gas	1	Mo	1	-	-
7	Field Office	1	Mo	1	-	-
8	Temp. Facilities	1	Mo	1	-	-
9	Temp. Signage and Protection	1	Mo	1	-	-
10	Temp. Fencing	1	Mo	1	-	-
11	Field Superintendent/Foreman (Full Time)	1	Mo	1	-	-
12	Project Manager (Part Time)	1	Mo	1	-	-
22. PLUMBING						
SANITARY & VENT						
BELOW GROUND						
13	4" Sanitary Pipe	166.06	LF	183	-	-
14	2" Sanitary Pipe	25.92	LF	29	-	-
15	1-1/4" Sanitary Pipe	3	LF	4	-	-
ABOVE GROUND						
16	2" Vent Pipe	238.11	LF	262	-	-
17	3" Vent Pipe	122.17	LF	135	-	-
18	1-1/4" Vent Pipe	462.55	LF	509	-	-
19	1-1/2" Vent Pipe	12.24	LF	14	-	-
20	4" Sanitary Pipe	143.98	LF	159	-	-
21	2" Sanitary Pipe	193.94	LF	214	-	-
22	3" Sanitary Pipe	219.91	LF	242	-	-
23	6" Sanitary Pipe	2.54	LF	3	-	-
24	1-1/4" Sanitary Pipe	2.47	LF	3	-	-
25	1-1/2" Sanitary Pipe	322.49	LF	355	-	-
26	1-1/4" Condensate Drain Pipe	37	LF	41	-	-
27	1" Condensate Drain Pipe	298	LF	328	-	-
SANITARY FITTINGS						
28	1-1/2" Elbow 45	36	EA	36	-	-
29	1-1/4" Elbow 45	1	EA	1	-	-
30	2" Elbow 45	50	EA	50	-	-
31	3" Elbow 45	32	EA	32	-	-
32	4" Elbow 45	23	EA	23	-	-
33	1-1/2" Wye	7	EA	7	-	-
34	2" Wye	2	EA	2	-	-

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35	2" x 1-1/2" Wye	7	EA	7	-	-
36	3" Wye	6	EA	6	-	-
37	3" x 3" x 1-1/2" Wye	8	EA	8	-	-
38	3" x 3" x 2" Wye	1	EA	1	-	-
39	3" x 2" Wye	17	EA	17	-	-
40	4" Wye	7	EA	7	-	-
41	4" x 3" Wye	6	EA	6	-	-
42	4" x 1-1/4" Wye	1	EA	1	-	-
43	6" x 2" Wye	1	EA	1	-	-
44	1-1/4" Double Wye	1	EA	1	-	-
45	3" Double Wye	3	EA	3	-	-
46	3" x 2" Double Wye	3	EA	3	-	-
47	4" Double Wye	1	EA	1	-	-
48	2" x 2" x 1-1/4" Wye	9	EA	9	-	-
49	1-1/2" x 1-1/2" x 1-1/2" x 1-1/4" Double Wye	3	EA	3	-	-
50	3" CO	9	EA	9	-	-
51	4" CO	5	EA	5	-	-
52	4" FD	1	EA	1	-	-
53	1-1/4" P-Trap	2	EA	2	-	-
54	1-1/2" P-Trap	16	EA	16	-	-
55	2" P-Trap	21	EA	21	-	-
56	4" P-Trap	4	EA	4	-	-
57	6" x 4" Reducer	1	EA	1	-	-
VENT FITTINGS						
58	4" x 4" x 2" Tee	1	EA	1	-	-
59	3" x 3" x 2" Tee	6	EA	6	-	-
60	3" x 3" x 1-1/4" Tee	4	EA	4	-	-
61	4" x 4" x 3" Tee	1	EA	1	-	-
62	2" x 2" x 1-1/2" Tee	1	EA	1	-	-
63	1-1/2" x 1-1/2" x 1-1/4" Wye Tee	15	EA	15	-	-
64	2" x 2" x 1-1/4" Tee	10	EA	10	-	-
65	2" x 1-1/4" x 1-1/4" Tee	8	EA	8	-	-
66	1-1/2" x 2" x2" Tee	1	EA	1	-	-
67	2" Tee	9	EA	9	-	-
68	3" Tee	2	EA	2	-	-
69	1-1/2" Elbow 90	1	EA	1	-	-
70	1-1/4" Elbow 90	33	EA	33	-	-
71	2" Elbow 90	9	EA	9	-	-
72	3" Elbow 90	2	EA	2	-	-
STORM						
73	4" Storm Line	110	LF	121	-	-
74	2" Elevator Sump Discharge	50	LF	55	-	-
75	3" Storm Line	108.87	LF	120	-	-
FITTINGS						
76	4" CO	2	EA	2	-	-
77	3" Elbow 45	17	EA	17	-	-

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78	4" Elbow 45	4	EA	4	-	-
79	4" x 3" Wye	2	EA	2	-	-
80	3" x 1-1/2" Wye	3	EA	3	-	-
81	3" Wye	3	EA	3	-	-
GAS LINE						
82	1-1/2" G	2	LF	3	-	-
83	1" G	11.46	LF	13	-	-
84	2-1/2" G	71.83	LF	80	-	-
85	2" G	158.67	LF	175	-	-
86	3/4" G	43.04	LF	48	-	-
87	3" G	13.75	LF	16	-	-
FIITINGS						
88	1-1/2" Cap	2	EA	2	-	-
89	2" Cap	4	EA	4	-	-
90	1-1/2" Elbow	1	EA	1	-	-
91	3/4" Elbow	7	EA	7	-	-
92	3"x2" Elbow	1	EA	1	-	-
93	2" Elbow	10	EA	10	-	-
94	3"x1" Elbow	1	EA	1	-	-
95	3/4"x1" Elbow	1	EA	1	-	-
96	1" Elbow	1	EA	1	-	-
97	1-1/2"x1-1/2"x2-1/2" Tee	1	EA	1	-	-
98	3"x3"x2-1/2" Tee	1	EA	1	-	-
99	2" Tee	4	EA	4	-	-
DOMESTIC WORK						
100	2" CW	107.97	LF	119	-	-
101	1" CW	14.38	LF	16	-	-
102	3/4" CW	957.4	LF	1054	-	-
103	3/8" CW	103.36	LF	114	-	-
104	1-1/2" CW	42.91	LF	48	-	-
105	1-1/4" CW	21.13	LF	24	-	-
106	1/2" CW	381.22	LF	420	-	-
107	2" HW	57.64	LF	64	-	-
108	1/2" HW	260.14	LF	287	-	-
109	3/4" HW	741.35	LF	816	-	-
110	1-1/2" HW	33.99	LF	38	-	-
111	1/2" HWR	158.65	LF	175	-	-
FIITINGS						
112	1/2" Cap	1	EA	1	-	-
113	1-1/2" Cap	2	EA	2	-	-
114	2" Cap	4	EA	4	-	-
115	1-1/2"x1-1/2"x3/4" Tee	2	EA	2	-	-
116	1/2"x1/2"x3/4" Tee	2	EA	2	-	-
117	1-1/2"x1-1/2"x2" Tee	1	EA	1	-	-
118	1-1/2"x1-1/2"x1/2" Tee	1	EA	1	-	-

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119	1-1/4"x1-1/2"x3/4" Tee	1	EA	1	-	-
120	1-1/4"x1-1/4"x3/4" Tee	1	EA	1	-	-
121	3/4"x2"x2" Tee	2	EA	2	-	-
122	1/2"x2"x2" Tee	1	EA	1	-	-
123	3/4"x3/4"x1/2" Tee	51	EA	51	-	-
124	2" Tee	4	EA	4	-	-
125	3/4" Tee	92	EA	92	-	-
126	1/2" Elbow	89	EA	89	-	-
127	1/2" Tee	3	EA	3	-	-
128	2" Elbow	10	EA	10	-	-
129	1-1/2" Elbow	1	EA	1	-	-
130	3/4" Elbow	180	EA	180	-	-
131	3/8" Elbow	13	EA	13	-	-
132	1-1/2"x2" Elbow	1	EA	1	-	-
133	3/4"x1/2" Elbow	30	EA	30	-	-
134	3/4"x1-1/2" Elbow	1	EA	1	-	-
135	3/4"x1" Elbow	1	EA	1	-	-
136	3/4"x3/8" Elbow	11	EA	11	-	-
FIRE SUPPRESION						
137	4" Fire Water	85.69	LF	95	-	-
138	2" Fire Water Note: (Size Assumed)	294.9	LF	325	-	-
139	6" Fire Water	88.15	LF	97	-	-
140	2" Test Drain Line	76.77	LF	85	-	-
FIITINGS						
141	4" Elbow	5	EA	5	-	-
142	2" Elbow	12	EA	12	-	-
143	6" Elbow	6	EA	6	-	-
144	4" To 6" Elbow	1	EA	1	-	-
145	4" To 2" Elbow	2	EA	2	-	-
146	4" To 4" To 6" Tee	1	EA	1	-	-
147	2" To 6" To 6" Tee	4	EA	4	-	-
148	6" Tee	2	EA	2	-	-
149	2" Tee	1	EA	1	-	-
150	4" Cap	1	EA	1	-	-
151	2" Cap	5	EA	5	-	-
152	2" Tee 45	5	EA	5	-	-
153	2" Elbow 45	19	EA	19	-	-
ACCESSORIES & FIXTURES						
154	1-1/2" Balancing Valve	2	EA	2	-	-
155	1/2" Balancing Valve	7	EA	7	-	-
156	3/4" Balancing Valve	12	EA	12	-	-
157	3/4" Hammer Arrestor	2	EA	2	-	-
158	2" Balancing Valve	4	EA	4	-	-
159	Water Meter	2	EA	2	-	-
160	2" ASSE 1015 Domestic Water Backflow Prevention Assembly	1	EA	1	-	-

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161	4" ASSE 1048 Fire Protection Backflow Prevention Assembly	1	EA	1	-	-
162	Trap Primer	2	EA	2	-	-
163	Vacuum Breaker	11	EA	11	-	-
164	3/4" Check valve	11	EA	11	-	-
165	3/4" Isolation Valve	33	EA	33	-	-
166	Potable Expansion tank	11	EA	11	-	-
167	3/4" Sediment Trap W/ Nipple & Cap	11	EA	11	-	-
168	Pressure Relief Valve	11	EA	11	-	-
169	Temperature Relief Valve	11	EA	11	-	-
170	Drain Pan	11	EA	11	-	-
171	1-1/2" Isolation Valve	1	EA	1	-	-
172	3/4" Isolation Valve	1	EA	1	-	-
173	Gas Meter	1	EA	1	-	-
174	4" Backwater Valve	3	EA	3	-	-
175	1-1/2" Backwater Valve	3	EA	3	-	-
176	FCVA:Fire Control Valve Assembly	6	EA	6	-	-
177	3" Vent Thru Roof	1	EA	1	-	-
EQUIPMENTS						
178	(1/2" Dia) Thermostatic Mixing Valve	33	EA	33	-	-
179	Air Ammitence Valve	1	EA	1	-	-
180	CP: Domestic Hot Water Circulator Pump MFR: Armstrong Model: ASTRO 210SS	1	EA	1	-	-
181	CTD-A: Plumbing Drain MFR: Watts Model: RD-940-83	1	EA	1	-	-
182	DWH-A: Domestic Water Heater MFR: AO Smith Model: DEL-30-45	9	EA	9	-	-
183	DWH-A: Domestic Water Heater MFR: AO Smith Model: DEL-30-45 (Future)	1	EA	1	-	-
184	DWH-B: Domestic Water Heater MFR: AO Smith Model: DEL-30-60	1	EA	1	-	-
185	ESP-1: Sump Pump MFR: Liberty Pump Model: ELV 290	1	EA	1	-	-
186	FD: Plumbing Drain MFR: Watts Model: FD-100A	4	EA	4	-	-
187	GWSP-1: Sump Pump MFR: Liberty Pump Model: 257 VMF	1	EA	1	-	-
188	GWSP-2: Sump Pump MFR: Liberty Pump Model: 257 VMF	1	EA	1	-	-
189	OFD-A: Plumbing Drain MFR: Watts Model: RD-200-K-SO-R	1	EA	1	-	-
190	P-1: Kitchen Sink	10	EA	10	-	-
191	P-2: Dishwasher	10	EA	10	-	-

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192	P-3: Private Lavatory	11	EA	11	-	-
193	P-4: Tank Type Water Closet	11	EA	11	-	-
194	P-5: Tub/Shower	10	EA	10	-	-
195	P-6: Laundry Machine	10	EA	10	-	-
196	P-7: Shower	1	EA	1	-	-
197	P-8: Outdoor Sink	1	EA	1	-	-
198	P-9: Flush valve Water Closet	2	EA	2	-	-
199	P-10: Public Lavatory	2	EA	2	-	-
200	P-11: Refrigerator	10	EA	10	-	-
201	P-12: Wall Hydrant	1	EA	1	-	-
202	P-13: Hose Bib	5	EA	5	-	-
203	P-14: Roof Hose Bib	1	EA	1	-	-
204	P-15: Steam Shower	1	EA	1	-	-
205	RD-A: Plumbing Drain MFR: Watts Model: RD-200-K-SO	1	EA	1	-	-
206	RD-B: Plumbing Drain MFR: Watts Model: RD-290-45	2	EA	2	-	-
207	RD-C: Plumbing Drain MFR: Watts Model: RD-200-CP-85-SO	1	EA	1	-	-
208	SSP-1: Sump Pump MFR: Sump Pump Model: 1102/LE51M	1	EA	1	-	-
209	SSP-2: Sump Pump MFR: Sump Pump Model: 1102/LE51M	1	EA	1	-	-
210	Water Meter	1	EA	1	-	-

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