

Sr#	Dwg. #	Description	Qty.	Unit	Unit Material Price	Unit Labor Price	Unit Labor Hr.	Material Cost	Labor Cost	Tot. Hours	Total Cost	Total Trade Cost
<b>GENERAL REQUIREMENTS</b>												
1		Supervision & Project Management	1	LS			254.400	\$0.00	\$0.00	254.40	\$0.00	
2		Permits	1	LS				\$0.00	\$0.00	0.00	\$0.00	
3		Final Clean-up	1	LS			91.200	\$0.00	\$0.00	91.20	\$0.00	
4		Mobilization Costs	1	LS				\$0.00	\$0.00	0.00	\$0.00	
5		Project Overheads	1	LS				\$0.00	\$0.00	0.00	\$0.00	
6		Bonds	1	LS				\$0.00	\$0.00	0.00	\$0.00	
7		Temporary Control & Facilities	1	LS				\$0.00	\$0.00	0.00	\$0.00	
		<b>Subtotal (General Requirements)</b>										<b>\$0</b>
<b>DIVISION 02- SITE WORK/ EXISTING CONDITIONS</b>												
		<b>Earthwork</b>										
8		Excavation	96.81	CY			0.616	\$0.00	\$0.00	59.60	\$0.00	
9		Export	4.21	CY			0.741	\$0.00	\$0.00	3.12	\$0.00	
10		Backfill	92.60	CY			0.815	\$0.00	\$0.00	75.43	\$0.00	
		<b>Subtotal (Site Work/ Existing Conditions)</b>										<b>\$0</b>
<b>DIVISION 22- PLUMBING</b>												
		<b>Lower Level</b>										
		<b>Fixture</b>										
11		10" Round Overflow Discharge Outlet	1.00	EA			1.120	\$0.00	\$0.00	1.12	\$0.00	
12		36" High StandPipe	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
13		Arrestor "ARR-B" MANUFACTURER & MODEL NO:J.R. SMITH HYDROTROL #5010	2.00	EA			1.300	\$0.00	\$0.00	2.60	\$0.00	
14		Arrestor "ARR-C" MANUFACTURER & MODEL NO:J.R. SMITH HYDROTROL #5020	1.00	EA			1.300	\$0.00	\$0.00	1.30	\$0.00	
15		Arrestor "ARR-D" MANUFACTURER & MODEL NO:J.R. SMITH HYDROTROL #5030	1.00	EA			1.300	\$0.00	\$0.00	1.30	\$0.00	
16		Domestic Hot Water Pump "DHWP" MANUFACTURER & MODEL NO:BELL AND GOSSETT ECOCIRC 20-18+	1.00	EA			3.430	\$0.00	\$0.00	3.43	\$0.00	
17		Domestic Water Heater "WH-100" MANUFACTURER & MODEL NO:PVI 40 L 130A-GCML CAPACITY (GAL.):130	1.00	EA			4.300	\$0.00	\$0.00	4.30	\$0.00	
18		Electric Water Cooler W/Bottle Filler "EWC-B"	1.00	EA			5.400	\$0.00	\$0.00	5.40	\$0.00	
19		Electric Water Cooler W/Bottle Filler "EWC-C"	1.00	EA			5.400	\$0.00	\$0.00	5.40	\$0.00	
20		Expansion Tank "XP-100" MANUFACTURER & MODEL NO:AMTROL ST-12C-DD CAPACITY (GAL.):6.4	1.00	EA			2.120	\$0.00	\$0.00	2.12	\$0.00	
21		Floor Cleanout "FCO"	3.00	EA			1.120	\$0.00	\$0.00	3.36	\$0.00	
22		Floor Drain "FD-A"	5.00	EA			1.320	\$0.00	\$0.00	6.60	\$0.00	
23		Floor Drain "FD-B"	1.00	EA			1.320	\$0.00	\$0.00	1.32	\$0.00	
24		Floor Drain "FD-C"	1.00	EA			1.320	\$0.00	\$0.00	1.32	\$0.00	
25		Floor Drain "FD-D"	1.00	EA			1.320	\$0.00	\$0.00	1.32	\$0.00	
26		Floor Sink "FS-A"	5.00	EA			3.430	\$0.00	\$0.00	17.15	\$0.00	
27		Mop Sink Basin "MSB-A"	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	
28		Shower Head (ADA) "SH-A"	3.00	EA			2.430	\$0.00	\$0.00	7.29	\$0.00	
29		Storm Drain "SD"	3.00	EA			2.120	\$0.00	\$0.00	6.36	\$0.00	
30		Sump Pump "SP-2" MANUFACTURER & MODEL NO:LIBERTY ELV FLOW (GPM):50	1.00	EA			3.540	\$0.00	\$0.00	3.54	\$0.00	
31		Thermostatic Mixing Valve "TMV-A" MANUFACTURER & MODEL NO:LEONARD, TM-26-LF MINIMUM FLOW (GPM):1	1.00	EA			2.120	\$0.00	\$0.00	2.12	\$0.00	
32		Wall Faucet "WF-B"	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
33		Wall Hydrant-Exterior with Box "WH-A"	5.00	EA			1.120	\$0.00	\$0.00	5.60	\$0.00	
34		Wall Hydrant-Exterior with Box "WH-B"	1.00	EA			1.120	\$0.00	\$0.00	1.12	\$0.00	
35		Wall-Hung Lavatory "L-A"	3.00	EA			3.300	\$0.00	\$0.00	9.90	\$0.00	
36		Wall-Hung Stainless STee (wye and 1/8" bend)  Lavatory "L-B"	1.00	EA			5.540	\$0.00	\$0.00	5.54	\$0.00	
37		Water Closet-Floor Mounted "WC-B"	2.00	EA			3.654	\$0.00	\$0.00	7.31	\$0.00	
38		Water Closet-Floor Mounted (ADA) "WC-A"	3.00	EA			3.654	\$0.00	\$0.00	10.96	\$0.00	
39		Whirlpool Faucet "WF-A"	2.00	EA			1.540	\$0.00	\$0.00	3.08	\$0.00	
40		Yard Cleanout "YCO"	4.00	EA			1.300	\$0.00	\$0.00	5.20	\$0.00	
		<b>Fitting</b>										
41		(1x1) 90 Degree bend	2.00	EA			0.298	\$0.00	\$0.00	0.60	\$0.00	
42		(1/2x1-1/4) 90 Degree bend	2.00	EA			0.320	\$0.00	\$0.00	0.64	\$0.00	
43		(1/2x1/2) 45 Degree bend	1.00	EA			0.432	\$0.00	\$0.00	0.43	\$0.00	
44		(1/2x1/2) 90 Degree bend	58.00	EA			0.450	\$0.00	\$0.00	26.10	\$0.00	
45		(1/2x1/2x1/2) Tee (wye and 1/8" bend)	21.00	EA			0.654	\$0.00	\$0.00	13.73	\$0.00	
46		(1/2x1/2x1/4) Tee (wye and 1/8" bend)	9.00	EA			0.345	\$0.00	\$0.00	3.11	\$0.00	
47		(2x1x1-1/4) Tee (wye and 1/8" bend)	1.00	EA			0.540	\$0.00	\$0.00	0.54	\$0.00	
48		(2x1-1/4) 90 Degree bend	2.00	EA			0.450	\$0.00	\$0.00	0.90	\$0.00	
49		(2x1/2) 90 Degree bend	2.00	EA			0.440	\$0.00	\$0.00	0.88	\$0.00	
50		(2x2) 45 Degree bend	4.00	EA			0.345	\$0.00	\$0.00	1.38	\$0.00	
51		(2x2) 90 Degree bend	18.00	EA			0.430	\$0.00	\$0.00	7.74	\$0.00	
52		(2x2x1-1/2) wye "Y"	2.00	EA			0.540	\$0.00	\$0.00	1.08	\$0.00	
53		(2x2x1-1/4) Tee (wye and 1/8" bend)	4.00	EA			0.500	\$0.00	\$0.00	2.00	\$0.00	
54		(2x2x1/2) Tee (wye and 1/8" bend)	3.00	EA			0.654	\$0.00	\$0.00	1.96	\$0.00	
55		(2x2x2) Tee (wye and 1/8" bend)	6.00	EA			0.435	\$0.00	\$0.00	2.61	\$0.00	
56		(2x2x2) wye "Y"	9.00	EA			0.540	\$0.00	\$0.00	4.86	\$0.00	
57		(2x4) 90 Degree bend	5.00	EA			0.330	\$0.00	\$0.00	1.65	\$0.00	
58		(3x2x2) Tee (wye and 1/8" bend)	1.00	EA			0.540	\$0.00	\$0.00	0.54	\$0.00	
59		(3x3) 45 Degree bend	3.00	EA			0.335	\$0.00	\$0.00	1.01	\$0.00	
60		(3x3) 90 Degree bend	3.00	EA			0.543	\$0.00	\$0.00	1.63	\$0.00	
61		(3x3x2) Tee (wye and 1/8" bend)	4.00	EA			0.432	\$0.00	\$0.00	1.73	\$0.00	

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62		(3x3x3) wye "Y"	1.00	EA			0.650	\$0.00	\$0.00	0.65	\$0.00	\$0.00
63		(3/4x3/4) 90 Degree bend	2.00	EA			0.376	\$0.00	\$0.00	0.75	\$0.00	\$0.00
64		(4x3) 90 Degree bend	1.00	EA			0.543	\$0.00	\$0.00	0.54	\$0.00	\$0.00
65		(4x3x3) wye "Y"	1.00	EA			0.436	\$0.00	\$0.00	0.44	\$0.00	\$0.00
66		(4x4) 45 Degree bend	9.00	EA			0.430	\$0.00	\$0.00	3.87	\$0.00	\$0.00
67		(4x4) 90 Degree bend	12.00	EA			0.360	\$0.00	\$0.00	4.32	\$0.00	\$0.00
68		(4x4x2) Tee (wye and 1/8" bend)	9.00	EA			0.540	\$0.00	\$0.00	4.86	\$0.00	\$0.00
69		(4x4x2) wye "Y"	9.00	EA			0.543	\$0.00	\$0.00	4.89	\$0.00	\$0.00
70		(4x4x3) wye "Y"	7.00	EA			0.456	\$0.00	\$0.00	3.19	\$0.00	\$0.00
71		(4x4x4) Tee (wye and 1/8" bend)	2.00	EA			0.543	\$0.00	\$0.00	1.09	\$0.00	\$0.00
72		(4x4x4) wye "Y"	3.00	EA			0.540	\$0.00	\$0.00	1.62	\$0.00	\$0.00
		<b>Valves</b>										
73		Balance Valve "BV"	6.00	EA			0.870	\$0.00	\$0.00	5.22	\$0.00	\$0.00
74		Service Valve "SV"	14.00	EA			0.987	\$0.00	\$0.00	13.82	\$0.00	\$0.00
		<b>Domestic Pipe</b>										
75		1" HW Pipe, Copper K Type	33.00	LF			0.085	\$0.00	\$0.00	2.80	\$0.00	\$0.00
76		1" HWC Pipe, Copper K Type	122.00	LF			0.085	\$0.00	\$0.00	10.35	\$0.00	\$0.00
77		1/2" CW Pipe, Copper K Type	7.00	LF			0.042	\$0.00	\$0.00	0.30	\$0.00	\$0.00
78		1/2" HW Pipe, Copper K Type	14.00	LF			0.042	\$0.00	\$0.00	0.59	\$0.00	\$0.00
79		1/2" HWC Pipe, Copper K Type	49.00	LF			0.042	\$0.00	\$0.00	2.08	\$0.00	\$0.00
80		2" CW Pipe, Copper K Type	105.00	LF			0.170	\$0.00	\$0.00	17.82	\$0.00	\$0.00
81		2" HW Pipe, Copper K Type	136.00	LF			0.170	\$0.00	\$0.00	23.08	\$0.00	\$0.00
82		3" CW Pipe, Copper K Type	140.00	LF			0.255	\$0.00	\$0.00	35.65	\$0.00	\$0.00
83		3/4" CW Pipe, Copper K Type	28.00	LF			0.064	\$0.00	\$0.00	1.78	\$0.00	\$0.00
84		3/4" HW Pipe, Copper K Type	7.00	LF			0.064	\$0.00	\$0.00	0.45	\$0.00	\$0.00
85		3/4" HWC Pipe, Copper K Type	7.00	LF			0.064	\$0.00	\$0.00	0.45	\$0.00	\$0.00
		<b>Waste Pipe</b>										
86		2" Vent Pipe, Cast Iron	289.00	LF			0.170	\$0.00	\$0.00	49.05	\$0.00	\$0.00
87		2" Waste Pipe, Cast Iron	85.00	LF			0.170	\$0.00	\$0.00	14.43	\$0.00	\$0.00
88		3" Vent Pipe, Cast Iron	57.00	LF			0.255	\$0.00	\$0.00	14.51	\$0.00	\$0.00
89		3" Waste Pipe, Cast Iron	238.00	LF			0.255	\$0.00	\$0.00	60.60	\$0.00	\$0.00
90		4" Grease Water Pipe, Cast Iron	74.00	LF			0.339	\$0.00	\$0.00	25.12	\$0.00	\$0.00
91		4" Subsoil Drain Pipe, Cast Iron	824.00	LF			0.339	\$0.00	\$0.00	279.73	\$0.00	\$0.00
92		4" Vent Pipe, Cast Iron	30.00	LF			0.339	\$0.00	\$0.00	10.18	\$0.00	\$0.00
93		4" Waste Pipe, Cast Iron	385.00	LF			0.339	\$0.00	\$0.00	130.70	\$0.00	\$0.00
94		8" Storm Pipe, Cast Iron	57.00	LF			0.679	\$0.00	\$0.00	38.70	\$0.00	\$0.00
95		10" Storm Pipe, Cast Iron	31.00	LF			0.849	\$0.00	\$0.00	26.31	\$0.00	\$0.00
		<b>Main Level</b>										
		<b>Fixture</b>										
96		3" VTR, Cast Iron	1.00	EA			1.320	\$0.00	\$0.00	1.32	\$0.00	\$0.00
97		4" VTR, Cast Iron	2.00	EA			1.430	\$0.00	\$0.00	2.86	\$0.00	\$0.00
98		8" Overflow Drain	3.00	EA			1.243	\$0.00	\$0.00	3.73	\$0.00	\$0.00
99		8" Roof Drain, Cast Iron	3.00	EA			1.243	\$0.00	\$0.00	3.73	\$0.00	\$0.00
100		Arrestor "ARR-B" MANUFACTURER & MODEL NO:J.R. SMITH HYDROTROL #5010	1.00	EA			1.320	\$0.00	\$0.00	1.32	\$0.00	\$0.00
101		Arrestor "ARR-C" MANUFACTURER & MODEL NO:J.R. SMITH HYDROTROL #5020	1.00	EA			1.320	\$0.00	\$0.00	1.32	\$0.00	\$0.00
102		Arrestor "ARR-D" MANUFACTURER & MODEL NO:J.R. SMITH HYDROTROL #5030	3.00	EA			1.320	\$0.00	\$0.00	3.96	\$0.00	\$0.00
103		Cleanout "CO"	4.00	EA			1.120	\$0.00	\$0.00	4.48	\$0.00	\$0.00
104		Electric Water Cooler W/Bottle Filler; Wall Mounted , HI-Lo Vandal Resis	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	\$0.00
105		Floor Drain "FD-A"	7.00	EA			1.100	\$0.00	\$0.00	7.70	\$0.00	\$0.00
106		Floor Drain "FD-B"	1.00	EA			1.100	\$0.00	\$0.00	1.10	\$0.00	\$0.00
107		Floor Sink "FS-A"	1.00	EA			2.430	\$0.00	\$0.00	2.43	\$0.00	\$0.00
108		Freeze-Proof Roof Hydrant	1.00	EA			1.320	\$0.00	\$0.00	1.32	\$0.00	\$0.00
109		Mop Sink Basin "MSB-B"	1.00	EA			3.320	\$0.00	\$0.00	3.32	\$0.00	\$0.00
110		Three-Compartment Scullery Sink W/Sideboard "S-B"	1.00	EA			2.320	\$0.00	\$0.00	2.32	\$0.00	\$0.00
111		Urinal "U-B"	2.00	EA			2.500	\$0.00	\$0.00	5.00	\$0.00	\$0.00
112		Urinal (ADA) "U-A"	1.00	EA			2.500	\$0.00	\$0.00	2.50	\$0.00	\$0.00
113		Wall Cleanout "WCO"	3.00	EA			1.540	\$0.00	\$0.00	4.62	\$0.00	\$0.00
114		Wall Hydrant-Exterior with Box "WH-A"	4.00	EA			1.870	\$0.00	\$0.00	7.48	\$0.00	\$0.00
115		Wall Hydrant-Exterior with Box "WH-B"	1.00	EA			1.870	\$0.00	\$0.00	1.87	\$0.00	\$0.00
116		Wall-Hung Lavatory "L-A"	7.00	EA			3.100	\$0.00	\$0.00	21.70	\$0.00	\$0.00
117		Wall-Hung Stainless STee (wye and 1/8" bend)  Lavatory "L-B"	1.00	EA			3.100	\$0.00	\$0.00	3.10	\$0.00	\$0.00
118		Water Closet-Floor Mounted "WC-B"	14.00	EA			3.540	\$0.00	\$0.00	49.56	\$0.00	\$0.00
119		Water Closet-Floor Mounted (ADA) "WC-A"	4.00	EA			3.540	\$0.00	\$0.00	14.16	\$0.00	\$0.00
120		Yard Cleanout "YCO"	3.00	EA			1.320	\$0.00	\$0.00	3.96	\$0.00	\$0.00
		<b>Fitting</b>										
121		(1x1) 90 Degree bend	3.00	EA			0.298	\$0.00	\$0.00	0.89	\$0.00	\$0.00
122		(1x1x1-1/2) Tee (wye and 1/8" bend)	3.00	EA			0.320	\$0.00	\$0.00	0.96	\$0.00	\$0.00
123		(1-1/2x1-1/2) 90 Degree bend	7.00	EA			0.432	\$0.00	\$0.00	3.02	\$0.00	\$0.00
124		(1-1/2x1-1/2x1-1/2) Tee (wye and 1/8" bend)	3.00	EA			0.450	\$0.00	\$0.00	1.35	\$0.00	\$0.00
125		(1/2x1-1/4) 90 Degree bend	4.00	EA			0.654	\$0.00	\$0.00	2.62	\$0.00	\$0.00
126		(1/2x1/2) 90 Degree bend	28.00	EA			0.345	\$0.00	\$0.00	9.66	\$0.00	\$0.00
127		(1/2x1/2x1/4) Tee (wye and 1/8" bend)	1.00	EA			0.540	\$0.00	\$0.00	0.54	\$0.00	\$0.00
128		(1/2x1/2x3/4) Tee (wye and 1/8" bend)	14.00	EA			0.450	\$0.00	\$0.00	6.30	\$0.00	\$0.00
129		(2x1-1/4) 90 Degree bend	8.00	EA			0.440	\$0.00	\$0.00	3.52	\$0.00	\$0.00
130		(2x2) 45 Degree bend	8.00	EA			0.345	\$0.00	\$0.00	2.76	\$0.00	\$0.00
131		(2x2) 90 Degree bend	34.00	EA			0.430	\$0.00	\$0.00	14.62	\$0.00	\$0.00
132		(2x2x1-1/2) wye "Y"	6.00	EA			0.540	\$0.00	\$0.00	3.24	\$0.00	\$0.00
133		(2x2x1-1/4) Tee (wye and 1/8" bend)	19.00	EA			0.500	\$0.00	\$0.00	9.50	\$0.00	\$0.00
134		(2x2x2) Tee (wye and 1/8" bend)	37.00	EA			0.654	\$0.00	\$0.00	24.20	\$0.00	\$0.00
135		(2x2x2) wye "Y"	11.00	EA			0.435	\$0.00	\$0.00	4.79	\$0.00	\$0.00
136		(2x4) 90 Degree bend	6.00	EA			0.540	\$0.00	\$0.00	3.24	\$0.00	\$0.00
137		(2x4x3) wye "Y"	1.00	EA			0.330	\$0.00	\$0.00	0.33	\$0.00	\$0.00
138		(3x2x2) Tee (wye and 1/8" bend)	5.00	EA			0.540	\$0.00	\$0.00	2.70	\$0.00	\$0.00
139		(3x3) 45 Degree bend	8.00	EA			0.335	\$0.00	\$0.00	2.68	\$0.00	\$0.00

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140		(3x3) 90 Degree bend	20.00	EA			0.543	\$0.00	\$0.00	10.86	\$0.00	
141		(3x3x2) Tee (wye and 1/8" bend)	8.00	EA			0.432	\$0.00	\$0.00	3.46	\$0.00	
142		(3x3x3) wye "Y"	1.00	EA			0.650	\$0.00	\$0.00	0.65	\$0.00	
143		(3/4x3/4) 90 Degree bend	22.00	EA			0.376	\$0.00	\$0.00	8.27	\$0.00	
144		(4x3) 90 Degree bend	5.00	EA			0.543	\$0.00	\$0.00	2.72	\$0.00	
145		(4x3x3) wye "Y"	1.00	EA			0.436	\$0.00	\$0.00	0.44	\$0.00	
146		(4x4) 45 Degree bend	4.00	EA			0.430	\$0.00	\$0.00	1.72	\$0.00	
147		(4x4) 90 Degree bend	14.00	EA			0.360	\$0.00	\$0.00	5.04	\$0.00	
148		(4x4x2) Tee (wye and 1/8" bend)	32.00	EA			0.540	\$0.00	\$0.00	17.28	\$0.00	
149		(4x4x2) wye "Y"	4.00	EA			0.543	\$0.00	\$0.00	2.17	\$0.00	
150		(4x4x3) Tee (wye and 1/8" bend)	3.00	EA			0.456	\$0.00	\$0.00	1.37	\$0.00	
151		(4x4x4) Tee (wye and 1/8" bend)	1.00	EA			0.543	\$0.00	\$0.00	0.54	\$0.00	
152		(4x4x4) wye "Y"	1.00	EA			0.540	\$0.00	\$0.00	0.54	\$0.00	
		<b>Valves</b>										
153		Balance Valve "BV"	4.00	EA			0.870	\$0.00	\$0.00	3.48	\$0.00	
154		Service Valve "SV"	15.00	EA			0.980	\$0.00	\$0.00	14.70	\$0.00	
		<b>Domestic Pipe</b>										
155		1" HW Pipe, Copper K Type	29.00	LF			0.085	\$0.00	\$0.00	2.46	\$0.00	
156		1-1/2" CW Pipe, Copper K Type	27.00	LF			0.127	\$0.00	\$0.00	3.44	\$0.00	
157		1/2" CW Pipe, Copper K Type	70.00	LF			0.042	\$0.00	\$0.00	2.97	\$0.00	
158		1/2" HWC Pipe, Copper K Type	92.00	LF			0.042	\$0.00	\$0.00	3.90	\$0.00	
159		2" CW Pipe, Copper K Type	116.00	LF			0.170	\$0.00	\$0.00	19.69	\$0.00	
160		3/4" CW Pipe, Copper K Type	70.00	LF			0.064	\$0.00	\$0.00	4.46	\$0.00	
161		3/4" HW Pipe, Copper K Type	128.00	LF			0.064	\$0.00	\$0.00	8.15	\$0.00	
162		3/4" HWC Pipe, Copper K Type	76.00	LF			0.064	\$0.00	\$0.00	4.84	\$0.00	
		<b>Waste Pipe</b>										
163		2" Vent Pipe, Cast Iron	96.00	LF			0.170	\$0.00	\$0.00	16.30	\$0.00	
164		2" Waste Pipe, Cast Iron	14.00	LF			0.170	\$0.00	\$0.00	2.38	\$0.00	
165		3" Vent Pipe, Cast Iron	146.00	LF			0.255	\$0.00	\$0.00	37.17	\$0.00	
166		3" Waste Pipe, Cast Iron	142.00	LF			0.255	\$0.00	\$0.00	36.15	\$0.00	
167		4" Vent Pipe, Cast Iron	103.00	LF			0.339	\$0.00	\$0.00	34.97	\$0.00	
168		4" Waste Pipe, Cast Iron	56.00	LF			0.339	\$0.00	\$0.00	19.01	\$0.00	
169		8" Overflow Drain Pipe, Cast Iron	157.00	LF			0.679	\$0.00	\$0.00	106.60	\$0.00	
170		8" Storm Pipe, Cast Iron	99.00	LF			0.679	\$0.00	\$0.00	67.22	\$0.00	
171		10" Overflow Drain Pipe, Cast Iron	14.00	LF			0.849	\$0.00	\$0.00	11.88	\$0.00	
		<b>Subtotal (Plumbing)</b>										\$0

**DIVISION 23- HVAC, MECHANICAL**

Lower Level												
		<b>Ducts</b>										
172		4" Dia.Duct (33 LF)	34.56	SF			0.100	\$0.00	\$0.00	3.46	\$0.00	
173		6" Dia.Duct (65 LF)	102.10	SF			0.100	\$0.00	\$0.00	10.21	\$0.00	
174		8" Dia.Duct (105 LF)	219.91	SF			0.100	\$0.00	\$0.00	21.99	\$0.00	
175		16" Dia.Duct (36 LF)	150.48	SF			0.100	\$0.00	\$0.00	15.05	\$0.00	
176		8x4 Rectangular Duct (37 LF)	888.00	SF			0.100	\$0.00	\$0.00	88.80	\$0.00	
177		8x6 Rectangular Duct (5 LF)	140.00	SF			0.100	\$0.00	\$0.00	14.00	\$0.00	
178		8x8 Rectangular Duct (40 LF)	1280.00	SF			0.100	\$0.00	\$0.00	128.00	\$0.00	
179		12x8 Rectangular Duct (28 LF)	1120.00	SF			0.100	\$0.00	\$0.00	112.00	\$0.00	
180		12x10 Rectangular Duct (49 LF)	2156.00	SF			0.100	\$0.00	\$0.00	215.60	\$0.00	
181		14x10 Rectangular Duct (5 LF)	240.00	SF			0.100	\$0.00	\$0.00	24.00	\$0.00	
182		16x12 Rectangular Duct (75 LF)	4200.00	SF			0.100	\$0.00	\$0.00	420.00	\$0.00	
183		18x14 Rectangular Duct (72 LF)	4608.00	SF			0.100	\$0.00	\$0.00	460.80	\$0.00	
184		20x14 Rectangular Duct (46 LF)	3128.00	SF			0.100	\$0.00	\$0.00	312.80	\$0.00	
185		22x10 Rectangular Duct (93 LF)	5952.00	SF			0.100	\$0.00	\$0.00	595.20	\$0.00	
186		22x14 Rectangular Duct (18 LF)	1296.00	SF			0.100	\$0.00	\$0.00	129.60	\$0.00	
187		26x14 Rectangular Duct (31 LF)	2480.00	SF			0.100	\$0.00	\$0.00	248.00	\$0.00	
188		Flexible Duct	70.00	LF			0.500	\$0.00	\$0.00	35.00	\$0.00	
		<b>Fixture</b>										
189		Air Handling Unit "AHU" MANUFACTURER & MODEL NO: AAON V3-CRB AIRFLOW (CFM):2500	1.00	EA			5.400	\$0.00	\$0.00	5.40	\$0.00	
190		Air Device "C" CFM:75 TYPE:LAY-IN NECK SIZE (IN.): 6	2.00	EA			2.120	\$0.00	\$0.00	4.24	\$0.00	
191		Air Device "D" CFM:210 TYPE:LAY-IN NECK SIZE (IN.): 8	2.00	EA			2.120	\$0.00	\$0.00	4.24	\$0.00	
192		Air Device "D" CFM:225 TYPE:LAY-IN NECK SIZE (IN.): 8	4.00	EA			2.120	\$0.00	\$0.00	8.48	\$0.00	
193		Air Device "D" CFM:340 TYPE:LAY-IN NECK SIZE (IN.): 8	5.00	EA			2.120	\$0.00	\$0.00	10.60	\$0.00	
194		Air Device "E" TYPE:LAY-IN NECK SIZE (IN.): 15	6.00	EA			2.120	\$0.00	\$0.00	12.72	\$0.00	
195		Air Device "F" CFM:75 TYPE:SIDEWALL NECK SIZE (IN.): 6x6	2.00	EA			2.120	\$0.00	\$0.00	4.24	\$0.00	

Sr#	Dwg. #	Description	Qty.	Unit	Unit Material Price	Unit Labor Price	Unit Labor Hr.	Material Cost	Labor Cost	Tot. Hours	Total Cost	Total Trade Cost
196		Air Device "G" CFM:100 TYPE:SIDEWALL NECK SIZE (IN.): 8x4	1.00	EA			2.120	\$0.00	\$0.00	2.12	\$0.00	
197		Air Device "G" CFM:180 TYPE:SIDEWALL NECK SIZE (IN.): 8x4	1.00	EA			2.120	\$0.00	\$0.00	2.12	\$0.00	
198		Air Device "H" CFM:225 TYPE:SIDEWALL NECK SIZE (IN.): 12x8	6.00	EA			2.120	\$0.00	\$0.00	12.72	\$0.00	
199		Air Device "H" CFM:250 TYPE:SIDEWALL NECK SIZE (IN.): 12x8	4.00	EA			2.120	\$0.00	\$0.00	8.48	\$0.00	
200		Air Device "I" CFM:450 TYPE:SIDEWALL NECK SIZE (IN.): 14x10	2.00	EA			2.120	\$0.00	\$0.00	4.24	\$0.00	
201		Air Device "K" TYPE:SIDEWALL NECK SIZE (IN.): 32x32	1.00	EA			2.120	\$0.00	\$0.00	2.12	\$0.00	
202		Air Device "L" TYPE:SIDEWALL NECK SIZE (IN.): 36x36	2.00	EA			2.120	\$0.00	\$0.00	4.24	\$0.00	
203		Control Damper "CD-RA102B" NOMINAL SIZE:36 x 36 AIRFLOW (CFM):3900	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
204		Control Damper "CD-RA102A" NOMINAL SIZE:36 x 36 AIRFLOW (CFM):3900	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
205		Control Damper "CD-RLF-EF1" NOMINAL SIZE:26 x 26 AIRFLOW (CFM):4500	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
206		Control Damper "CD-RLF-EF2" NOMINAL SIZE:26 x 26 AIRFLOW (CFM):4500	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
207		Damper	19.00	EA			1.430	\$0.00	\$0.00	27.17	\$0.00	
208		Electric Unit Heater "UH-3" MANUFACTURER & MODEL NO:QMARK MUH03-71 AIRFLOW (CFM):350	1.00	EA			4.300	\$0.00	\$0.00	4.30	\$0.00	
209		Electric Unit Heater "UH-4" MANUFACTURER & MODEL NO:QMARK MUH03-71 AIRFLOW (CFM):350	1.00	EA			4.300	\$0.00	\$0.00	4.30	\$0.00	
210		Exhaust Fan "EF-1" MANUFACTURER & MODEL NO:GREENHECK USF-22-A2 AIRFLOW (CFM):4500	1.00	EA			2.123	\$0.00	\$0.00	2.12	\$0.00	
211		Exhaust Fan "EF-2" MANUFACTURER & MODEL NO:GREENHECK USF-22-A2 AIRFLOW (CFM):4500	1.00	EA			2.123	\$0.00	\$0.00	2.12	\$0.00	
211		Exhaust Fan "EF-3" MANUFACTURER & MODEL NO:GREENHECK CUE-100HP-VG AIRFLOW (CFM):240	1.00	EA			2.123	\$0.00	\$0.00	2.12	\$0.00	
212		Exhaust Fan "TF-1" MANUFACTURER & MODEL NO:GREENHECK SQ-80-VG AIRFLOW (CFM):250	1.00	EA			2.123	\$0.00	\$0.00	2.12	\$0.00	
213		Humidifier "HUM-1" MANUFACTURER & MODEL NO:DRISTee (weye and 1/8" bend)M RX-42-1 AIRFLOW (CFM):150	1.00	EA			2.540	\$0.00	\$0.00	2.54	\$0.00	
214		Indoor Unit "AC-1" MANUFACTURER & MODEL NO:LG ARNU243SKS4 AIRFLOW (CFM):1200	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	
215		Indoor Unit "AC-2" MANUFACTURER & MODEL NO:LG ARNU243SKS4 AIRFLOW (CFM):1200	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	
216		Indoor Unit "AC-3" MANUFACTURER & MODEL NO:LG ARNU073GM2A4 AIRFLOW (CFM):270	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	
217		Indoor Unit "AC-4" MANUFACTURER & MODEL NO:LG ARNU073GM2A4 AIRFLOW (CFM):270	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	
218		Insect Screen	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
219		Outdoor Unit "CU-1" MANUFACTURER & MODEL NO:LG ARUN024GSS4	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	
220		Outdoor Unit "CU-2" MANUFACTURER & MODEL NO:LG ARUN024GSS4	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	
221		Outdoor Unit "CU-3" MANUFACTURER & MODEL NO:LG LS090HEV2	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	
222		Outdoor Unit "CU-4" MANUFACTURER & MODEL NO:LG LS090HEV2	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	
223		Outdoor Unit "CU-5" MANUFACTURER & MODEL NO:AAON CFA-007	1.00	EA			4.400	\$0.00	\$0.00	4.40	\$0.00	

Sr#	Dwg. #	Description	Qty.	Unit	Unit Material Price	Unit Labor Price	Unit Labor Hr.	Material Cost	Labor Cost	Tot. Hours	Total Cost	Total Trade Cost
224		Rooftop Unit "RTU-100" MANUFACTURER & MODEL NO:AAON RN-015 AIRFLOW (CFM):3205	1.00	EA			7.760	\$0.00	\$0.00	7.76	\$0.0	
225		Rooftop Unit "RTU-101" MANUFACTURER & MODEL NO:AAON RNA-030 AIRFLOW (CFM):9300	1.00	EA			7.760	\$0.00	\$0.00	7.76	\$0.0	
226		Rooftop Unit "RTU-102" MANUFACTURER & MODEL NO:AAON RNA-030 AIRFLOW (CFM):9300	1.00	EA			7.760	\$0.00	\$0.00	7.76	\$0.0	
227		Rooftop Unit "RTU-103" MANUFACTURER & MODEL NO:AAON RN-010 AIRFLOW (CFM):3100	1.00	EA			7.760	\$0.00	\$0.00	7.76	\$0.0	
228		Rooftop Unit "RTU-104" MANUFACTURER & MODEL NO:AAON RN-010 AIRFLOW (CFM):3100	1.00	EA			7.760	\$0.00	\$0.00	7.76	\$0.0	
229		Rooftop Unit "RTU-105" MANUFACTURER & MODEL NO:AAON RN-008 AIRFLOW (CFM):2160	1.00	EA			7.760	\$0.00	\$0.00	7.76	\$0.0	
230		Rooftop Unit "RTU-106" MANUFACTURER & MODEL NO:AAON RQ-002 AIRFLOW (CFM):700	1.00	EA			7.760	\$0.00	\$0.00	7.76	\$0.0	
231		Temperature Sensor	9.00	EA			1.120	\$0.00	\$0.00	10.08	\$0.0	
232		Variable Air Volume Unit "VAV-100.1" MANUFACTURER & MODEL NO:TITUS DESV AIRFLOW (CFM):1500	1.00	EA			3.540	\$0.00	\$0.00	3.54	\$0.0	
233		Variable Air Volume Unit "VAV-100.4" MANUFACTURER & MODEL NO:TITUS DESV AIRFLOW (CFM):285	1.00	EA			3.540	\$0.00	\$0.00	3.54	\$0.0	
		<b>Gas Pipe</b>										
234		1" Gas Pipe	33.00	LF			0.085	\$0.00	\$0.00	2.80	\$0.0	
235		1-1/4" Gas Pipe	100.00	LF			0.106	\$0.00	\$0.00	10.61	\$0.0	
		<b>Main Level</b>										
		<b>Ducts</b>										
236		6" Dia.Duct (47 LF)	73.79	SF			0.100	\$0.00	\$0.00	7.38	\$0.0	
237		8" Dia.Duct (68 LF)	142.12	SF			0.100	\$0.00	\$0.00	14.21	\$0.0	
238		14" Dia.Duct (44 LF)	161.04	SF			0.100	\$0.00	\$0.00	16.10	\$0.0	
239		16" Dia.Duct (26 LF)	108.68	SF			0.100	\$0.00	\$0.00	10.87	\$0.0	
240		18" Dia.Duct (63 LF)	262.71	SF			0.100	\$0.00	\$0.00	26.27	\$0.0	
241		24" Dia.Duct (28 LF)	175.84	SF			0.100	\$0.00	\$0.00	17.58	\$0.0	
242		34" Dia.Duct (104 LF)	925.60	SF			0.100	\$0.00	\$0.00	92.56	\$0.0	
243		36" Dia.Duct (213 LF)	2006.46	SF			0.100	\$0.00	\$0.00	200.65	\$0.0	
244		6x6 Rectangular Duct (10 LF)	240.00	SF			0.100	\$0.00	\$0.00	24.00	\$0.0	
245		8x8 Rectangular Duct (11 LF)	352.00	SF			0.100	\$0.00	\$0.00	35.20	\$0.0	
246		10x10 Rectangular Duct (7 LF)	280.00	SF			0.100	\$0.00	\$0.00	28.00	\$0.0	
247		12x10 Rectangular Duct (12 LF)	528.00	SF			0.100	\$0.00	\$0.00	52.80	\$0.0	
248		14x10 Rectangular Duct (6 LF)	2928.00	SF			0.100	\$0.00	\$0.00	292.80	\$0.0	
249		16x8 Rectangular Duct (7 LF)	336.00	SF			0.100	\$0.00	\$0.00	33.60	\$0.0	
250		16x10 Rectangular Duct (14 LF)	728.00	SF			0.100	\$0.00	\$0.00	72.80	\$0.0	
251		16x12 Rectangular Duct (14 LF)	784.00	SF			0.100	\$0.00	\$0.00	78.40	\$0.0	
252		18x8 Rectangular Duct (14 LF)	728.00	SF			0.100	\$0.00	\$0.00	72.80	\$0.0	
253		18x10 Rectangular Duct (47 LF)	1624.00	SF			0.100	\$0.00	\$0.00	162.40	\$0.0	
254		18x12 Rectangular Duct (29 LF)	1980.00	SF			0.100	\$0.00	\$0.00	198.00	\$0.0	
255		18x16 Rectangular Duct (47 LF)	5440.00	SF			0.100	\$0.00	\$0.00	544.00	\$0.0	
256		20x10 Rectangular Duct (80 LF)	840.00	SF			0.100	\$0.00	\$0.00	84.00	\$0.0	
257		20x18 Rectangular Duct (28 LF)	2128.00	SF			0.100	\$0.00	\$0.00	212.80	\$0.0	
258		22x14 Rectangular Duct (11 LF)	792.00	SF			0.100	\$0.00	\$0.00	79.20	\$0.0	
259		22x20 Rectangular Duct (13 LF)	1092.00	SF			0.100	\$0.00	\$0.00	109.20	\$0.0	
260		24x16 Rectangular Duct (77 LF)	6160.00	SF			0.100	\$0.00	\$0.00	616.00	\$0.0	
261		26x14 Rectangular Duct (27 LF)	2160.00	SF			0.100	\$0.00	\$0.00	216.00	\$0.0	
262		30x12 Rectangular Duct (11 LF)	924.00	SF			0.100	\$0.00	\$0.00	92.40	\$0.0	
263		30x14 Rectangular Duct (13 LF)	1144.00	SF			0.100	\$0.00	\$0.00	114.40	\$0.0	
264		32x18 Rectangular Duct (62 LF)	6200.00	SF			0.100	\$0.00	\$0.00	620.00	\$0.0	
265		34x18 Rectangular Duct (56 LF)	5824.00	SF			0.100	\$0.00	\$0.00	582.40	\$0.0	
266		Flexible Duct	102.00	SF			0.100	\$0.00	\$0.00	10.20	\$0.0	
		<b>Fixture</b>										
267		Air Device "A" CFM:1725 TYPE:JET NECK SIZE (IN.): 15	8.00	EA			2.120	\$0.00	\$0.00	16.96	\$0.0	
268		Air Device "B" CFM:800 TYPE:JET NECK SIZE (IN.): 10	6.00	EA			2.120	\$0.00	\$0.00	12.72	\$0.0	
269		Air Device "C" CFM:50 TYPE:LAY-IN NECK SIZE (IN.): 6	2.00	EA			2.120	\$0.00	\$0.00	4.24	\$0.0	
270		Air Device "C" CFM:115 TYPE:LAY-IN NECK SIZE (IN.): 6	8.00	EA			2.120	\$0.00	\$0.00	16.96	\$0.0	
271		Air Device "D" CFM:185 TYPE:LAY-IN NECK SIZE (IN.): 8	7.00	EA			2.120	\$0.00	\$0.00	14.84	\$0.0	

Sr#	Dwg. #	Description	Qty.	Unit	Unit Material Price	Unit Labor Price	Unit Labor Hr.	Material Cost	Labor Cost	Tot. Hours	Total Cost	Total Trade Cost
272		Air Device "D" CFM:350 TYPE:LAY-IN NECK SIZE (IN.): 8	3.00	EA			2.120	\$0.00	\$0.00	6.36	\$0.00	
273		Air Device "E" TYPE:LAY-IN NECK SIZE (IN.): 15	4.00	EA			2.120	\$0.00	\$0.00	8.48	\$0.00	
274		Air Device "F" CFM:70 TYPE:SIDEWALL NECK SIZE (IN.):6x6	1.00	EA			2.120	\$0.00	\$0.00	2.12	\$0.00	
275		Air Device "J" CFM:950 TYPE:SIDEWALL NECK SIZE (IN.):18x12	6.00	EA			2.120	\$0.00	\$0.00	12.72	\$0.00	
276		Air Device "L" CFM:100 TYPE:SIDEWALL NECK SIZE (IN.):36x36	1.00	EA			2.120	\$0.00	\$0.00	2.12	\$0.00	
277		Air Device "M" CFM:1265 TYPE:SIDEWALL NECK SIZE (IN.):30x12	2.00	EA			2.120	\$0.00	\$0.00	4.24	\$0.00	
278		Air Device "M" CFM:1270 TYPE:SIDEWALL NECK SIZE (IN.):30x12	1.00	EA			2.120	\$0.00	\$0.00	2.12	\$0.00	
279		Damper	33.00	EA			1.430	\$0.00	\$0.00	47.19	\$0.00	
280		Electric Unit Heater "UH-1" MANUFACTURER & MODEL NO:QMARK EFF3007 AIRFLOW (CFM):350	1.00	EA			3.430	\$0.00	\$0.00	3.43	\$0.00	
281		Electric Unit Heater "UH-2" MANUFACTURER & MODEL NO:QMARK EFF3007 AIRFLOW (CFM):350	1.00	EA			3.430	\$0.00	\$0.00	3.43	\$0.00	
282		Electric Unit Heater "UH-5" MANUFACTURER & MODEL NO:IEC DBY03 AIRFLOW (CFM):300	1.00	EA			3.430	\$0.00	\$0.00	3.43	\$0.00	
283		Electric Unit Heater "UH-6" MANUFACTURER & MODEL NO:IEC DBY06 AIRFLOW (CFM):600	1.00	EA			3.430	\$0.00	\$0.00	3.43	\$0.00	
284		Electric Unit Heater "UH-7" MANUFACTURER & MODEL NO:QMARK MUH03-71 AIRFLOW (CFM):350	1.00	EA			3.430	\$0.00	\$0.00	3.43	\$0.00	
285		Electric Unit Heater "UH-8" MANUFACTURER & MODEL NO:QMARK MUH03-71 AIRFLOW (CFM):350	1.00	EA			3.430	\$0.00	\$0.00	3.43	\$0.00	
286		Fire Damper "FRD-1" MANUFACTURER & MODEL NO:GREENHECK FD-350 AIRFLOW (CFM):420	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
287		Fire Damper "FRD-2" MANUFACTURER & MODEL NO:GREENHECK FD-350 AIRFLOW (CFM):1185	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
288		Fire Damper "FRD-3" MANUFACTURER & MODEL NO:GREENHECK FD-350 AIRFLOW (CFM):1785	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
289		Fire Damper "FRD-4" MANUFACTURER & MODEL NO:GREENHECK FD-350 AIRFLOW (CFM):2160	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
290		Fire Damper "FRD-5" MANUFACTURER & MODEL NO:GREENHECK FD-350 AIRFLOW (CFM):2160	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
291		Gas Meter	1.00	EA			1.430	\$0.00	\$0.00	1.43	\$0.00	
292		Temprature Sensor	8.00	EA			1.120	\$0.00	\$0.00	8.96	\$0.00	
293		Variable Air Volume Unit "VAV-100.2" MANUFACTURER & MODEL NO:TITUS DESV AIRFLOW (CFM):750	1.00	EA			3.200	\$0.00	\$0.00	3.20	\$0.00	
294		Variable Air Volume Unit "VAV-100.5" MANUFACTURER & MODEL NO:TITUS DESV AIRFLOW (CFM):285	1.00	EA			3.200	\$0.00	\$0.00	3.20	\$0.00	
295		Variable Air Volume Unit "VAV-105.1" MANUFACTURER & MODEL NO:TITUS DESV AIRFLOW (CFM):1700	1.00	EA			3.200	\$0.00	\$0.00	3.20	\$0.00	
296		Variable Air Volume Unit "VAV-105.2" MANUFACTURER & MODEL NO:TITUS DESV AIRFLOW (CFM):460	1.00	EA			3.200	\$0.00	\$0.00	3.20	\$0.00	
297		<b>Gas Pipe</b> 1" Gas Pipe	50.00	LF			0.085	\$0.00	\$0.00	4.24	\$0.00	
298		1-1/2" Gas Pipe	111.00	LF			0.127	\$0.00	\$0.00	14.13	\$0.00	
299		1-1/4" Gas Pipe	264.00	LF			0.106	\$0.00	\$0.00	28.01	\$0.00	
300		3/4" Gas Pipe	106.00	LF			0.064	\$0.00	\$0.00	6.75	\$0.00	
		<b>Subtotal (HVAC, Mechanical)</b>										<b>\$0</b>

SUMMARY

Material Cost	Labor Cost	Labor Hrs.	Sub-Total
\$0	\$0	10264.15	\$0

Qualifications:

**TOTAL PROJECT COST**

