

MATERIAL TAKEOFF AND COST ESTIMATE STATEMENT

<b>PROJECT NAME:</b>	<b>HVAC SAMPLE</b>
<b>LOCATION:</b>	



Sr #	REFERENCE	DESCRIPTION	QUANTITY	WASTE	TOTAL QTY	UNIT	COST/UNIT	MATERIAL TOTAL	UNIT HOURS	TOTAL MANHOURS	UNIT LABOR	TOTAL LABOR	TOTAL COST	REMARKS	TRADE COST
<b>01. GENERAL CONDITIONS</b>															
<b>INDIRECT PROJECT COSTS</b>															
1		General Liability Insurance	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
2		General Conditions (Reoffice Overhead)	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
<b>DIRECT PROJECT COSTS</b>															
3		Bonding Fee (If required)	1.2	0%	1.2	%	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
4		Access Control (Pipe Scaffolding or Boom/Scissor Lifts)	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
5		Equipment Rental	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
6		Travel, Tools, Gas	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
7		Field Office	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
8		Temp. Facilities	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
9		Temp. Signage and Protection	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
10		Temp. Fencing	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
11		Field Superintendent/Foreman (Full Time)	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
12		Project Manager (Part Time)	0.0	0%	0.0	Mo	\$ -	\$ -	0.000	0.00	\$ -	\$ -	\$ -		
<b>23. HEATING VENTILATION &amp; AIR CONDITIONING (HVAC)</b>															
<b>\$1,407,474</b>															
<b>DUCTWORK (AIR DISTRIBUTION)</b>															
13		4" Dia Exhaust Air Duct	3198.0	5%	3357.9	LF	\$ 4.74	\$ 15,910	0.103	345.86	\$ 55.00	\$ 19,023	\$ 34,932		
14		5" Dia Flexible Duct	702.0	5%	737.1	LF	\$ 5.34	\$ 3,933	0.116	85.50	\$ 55.00	\$ 4,703	\$ 8,636		
15		6" Dia Flexible Duct	57.4	5%	60.3	LF	\$ 5.95	\$ 359	0.129	7.80	\$ 55.00	\$ 429	\$ 788		
16		8" Dia Flexible Duct	1862.0	5%	1955.1	LF	\$ 7.04	\$ 13,760	0.153	299.13	\$ 55.00	\$ 16,452	\$ 30,212		
17		6" Dia Outside Air Duct	1831.0	5%	1922.6	LF	\$ 6.12	\$ 11,762	0.133	255.70	\$ 55.00	\$ 14,063	\$ 29,826		
18		10"x10" Rectangular Duct	2.2	5%	2.3	LF	\$ 9.48	\$ 21	0.206	0.47	\$ 55.00	\$ 26	\$ 47		
19		10"x8" Rectangular Duct	24.0	5%	25.2	LF	\$ 9.34	\$ 236	0.203	5.12	\$ 55.00	\$ 282	\$ 518		
20		12"x12" Rectangular Duct	16.3	5%	17.1	LF	\$ 11.32	\$ 194	0.246	4.22	\$ 55.00	\$ 232	\$ 426		
21		12"x6" Rectangular Duct	47.3	5%	49.7	LF	\$ 11.09	\$ 551	0.241	11.98	\$ 55.00	\$ 659	\$ 1,210		
22		22"x6" Rectangular Duct	176.2	5%	185.0	LF	\$ 11.18	\$ 2,068	0.243	44.95	\$ 55.00	\$ 2,472	\$ 4,540		
23		14"x10" Rectangular Duct	5.8	5%	6.0	LF	\$ 12.93	\$ 78	0.281	1.70	\$ 55.00	\$ 93	\$ 171		
24		14"x12" Rectangular Duct	32.5	5%	34.1	LF	\$ 13.14	\$ 448	0.286	9.73	\$ 55.00	\$ 535	\$ 983		
25		14"x14" Rectangular Duct	66.7	5%	70.0	LF	\$ 13.24	\$ 927	0.288	20.15	\$ 55.00	\$ 1,108	\$ 2,035		
26		14"x8" Rectangular Duct	44.2	5%	46.4	LF	\$ 12.94	\$ 600	0.281	13.05	\$ 55.00	\$ 718	\$ 1,318		
27		16"x12" Rectangular Duct	17.4	5%	18.2	LF	\$ 15.00	\$ 274	0.326	5.95	\$ 55.00	\$ 321	\$ 601		
28		16"x4" Rectangular Duct	45.8	5%	48.1	LF	\$ 14.78	\$ 711	0.321	15.46	\$ 55.00	\$ 850	\$ 1,562		
29		16"x8" Rectangular Duct	11.4	5%	12.0	LF	\$ 14.86	\$ 178	0.323	3.88	\$ 55.00	\$ 213	\$ 392		
30		18"x14" Rectangular Duct	27.5	5%	28.9	LF	\$ 17.00	\$ 491	0.370	10.67	\$ 55.00	\$ 587	\$ 1,078		
31		18"x8" Rectangular Duct	25.4	5%	26.7	LF	\$ 16.61	\$ 443	0.361	9.64	\$ 55.00	\$ 530	\$ 974		
32		30"x14" Rectangular Duct	20.3	5%	21.3	LF	\$ 17.82	\$ 480	0.409	8.72	\$ 55.00	\$ 479	\$ 886		
33		20"x8" Rectangular Duct	31.9	5%	33.5	LF	\$ 18.46	\$ 618	0.401	13.44	\$ 55.00	\$ 739	\$ 1,358		
34		22"x14" Rectangular Duct	91.0	5%	95.5	LF	\$ 20.54	\$ 1,962	0.447	42.65	\$ 55.00	\$ 2,346	\$ 4,308		
35		26"x8" Rectangular Duct	14.7	5%	15.4	LF	\$ 24.08	\$ 371	0.524	8.06	\$ 55.00	\$ 443	\$ 814		
36		28"x14" Rectangular Duct	11.3	5%	11.9	LF	\$ 26.20	\$ 311	0.570	7.67	\$ 55.00	\$ 372	\$ 684		
37		30"x8" Rectangular Duct	18.9	5%	19.8	LF	\$ 25.66	\$ 506	0.526	10.86	\$ 55.00	\$ 597	\$ 1,097		
38		30"x12" Rectangular Duct	70.6	5%	74.1	LF	\$ 27.95	\$ 2,070	0.608	45.01	\$ 55.00	\$ 2,475	\$ 4,546		
39		30"x14" Rectangular Duct	24.9	5%	26.1	LF	\$ 28.05	\$ 732	0.610	15.91	\$ 55.00	\$ 875	\$ 1,607		
40		30"x8" Rectangular Duct	10.3	5%	10.8	LF	\$ 27.67	\$ 300	0.602	6.51	\$ 55.00	\$ 358	\$ 658		
41		36"x14" Rectangular Duct	7.1	5%	7.5	LF	\$ 33.26	\$ 249	0.723	5.42	\$ 55.00	\$ 298	\$ 547		
42		42"x36" Rectangular Duct	20.6	5%	21.6	LF	\$ 35.46	\$ 765	0.749	34.19	\$ 55.00	\$ 1,891	\$ 3,527		
43		6"x4" Rectangular Duct	13.8	5%	14.5	LF	\$ 5.80	\$ 84	0.126	1.83	\$ 55.00	\$ 100	\$ 184		
44		6"x6" Rectangular Duct	20.9	5%	21.9	LF	\$ 6.03	\$ 132	0.131	2.87	\$ 55.00	\$ 158	\$ 290		
45		8"x4" Rectangular Duct	40.9	5%	43.0	LF	\$ 7.36	\$ 316	0.160	6.88	\$ 55.00	\$ 378	\$ 695		
46		8"x6" Rectangular Duct	30.1	5%	31.6	LF	\$ 7.53	\$ 238	0.164	5.17	\$ 55.00	\$ 285	\$ 523		
47		8"x8" Rectangular Duct	21.9	5%	23.0	LF	\$ 7.82	\$ 177	0.167	3.84	\$ 55.00	\$ 211	\$ 386		
48		16"x8" Return Air Duct	58.0	5%	60.9	LF	\$ 14.77	\$ 899	0.321	19.55	\$ 55.00	\$ 1,075	\$ 1,974		
49		4" Dia Round Duct	121.9	5%	128.0	LF	\$ 5.03	\$ 644	0.109	14.00	\$ 55.00	\$ 770	\$ 1,414		
50		5" Dia Round Duct	26.3	5%	27.6	LF	\$ 5.69	\$ 157	0.124	3.41	\$ 55.00	\$ 187	\$ 344		
51		10"x8" Supply Air Duct	161.3	5%	169.3	LF	\$ 9.15	\$ 1,550	0.199	33.70	\$ 55.00	\$ 1,853	\$ 3,404		
52		14"x8" Supply Air Duct	211.0	5%	221.6	LF	\$ 105.16	\$ 23,297	0.286	506.46	\$ 55.00	\$ 27,321	\$ 51,153		
53		18"x8" Supply Air Duct	56.0	5%	58.8	LF	\$ 16.74	\$ 984	0.364	214.03	\$ 55.00	\$ 11,772	\$ 21,617		
54		22"x8" Supply Air Duct	158.0	5%	165.9	LF	\$ 20.65	\$ 3,426	0.449	74.49	\$ 55.00	\$ 4,097	\$ 7,523		
55		8"x8" Supply Air Duct	88.0	5%	92.4	LF	\$ 7.73	\$ 714	0.168	15.52	\$ 55.00	\$ 854	\$ 1,568		
<b>PILING</b>															
56		1" Dia Condensate Drain Pipe	401.0	5%	421.0	LF	\$ 8.66	\$ 3,646	0.118	49.68	\$ 55.00	\$ 2,733	\$ 6,379		
57		1-1/2" Dia Condensate Drain Pipe	30.0	5%	31.5	LF	\$ 12.85	\$ 405	0.154	4.85	\$ 55.00	\$ 267	\$ 672		
58		1-1/4" Dia Condensate Drain Pipe	23.0	5%	23.4	LF	\$ 10.94	\$ 256	0.138	3.21	\$ 55.00	\$ 1,777	\$ 4,339		
59		2" Dia Condensate Drain Pipe	587.0	5%	616.4	LF	\$ 19.60	\$ 12,080	0.190	117.11	\$ 55.00	\$ 6,441	\$ 18,521		
60		3/4" Dia Condensate Drain Pipe	344.0	5%	361.2	LF	\$ 5.80	\$ 2,095	0.105	37.93	\$ 55.00	\$ 2,086	\$ 4,181		
61		1/2" & 1-1/8" Dia Refrigerant Liquid & Suction Pipe	2015.0	5%	2115.8	LF	\$ 8.94	\$ 18,915	0.120	253.89	\$ 55.00	\$ 13,264	\$ 32,819		
62		1/4" & 1/2" Dia Refrigerant Liquid & Suction Pipe	234.0	5%	245.7	LF	\$ 3.10	\$ 762	0.099	24.32	\$ 55.00	\$ 1,338	\$ 2,100		
63		3/8" & 3/4" Dia Refrigerant Liquid & Suction Pipe	45.0	5%	47.3	LF	\$ 5.60	\$ 265	0.160	7.56	\$ 55.00	\$ 416	\$ 680		
64		3/8" & 5/8" Dia Refrigerant Liquid & Suction Pipe	80.0	5%	84.0	LF	\$ 5.78	\$ 486	0.180	15.12	\$ 55.00	\$ 832	\$ 1,317		
65		3/8" & 7/8" Dia Refrigerant Liquid & Suction Pipe	40.0	5%	42.0	LF	\$ 6.10	\$ 256	0.114	4.79	\$ 55.00	\$ 263	\$ 520		
66		4" Dia Vent Pipe	522.4	5%	545.5	LF	\$ 34.90	\$ 19,142	0.210	115.18	\$ 55.00	\$ 6,339	\$ 25,477		
<b>AIR DEVICES</b>															
67		1200 CFM, 28"x28" E/A Louver/W/Insect Screen & Counterweighted Balancing Damper	3.0	0%	3.0	EA	\$ 866.00	\$ 2,598	3.464	10.39	\$ 55.00	\$ 572	\$ 3,170		
68		Hurricane Rated Intake Louver By ARQ, Greenheck, #EHV-901D-136X36	2.0	0%	2.0	EA	\$ 245.00	\$ 490	0.980	1.96	\$ 55.00	\$ 108	\$ 598		
69		6"x6" Hurricane Rated Intake Louver, Greenheck, #EHV-901D-36X36	8.0	0%	8.0	EA	\$ 112.00	\$ 896	0.440	3.52	\$ 55.00	\$ 196	\$ 1,092		
70		16"x14" Hurricane Rated Intake Louver, Greenheck, #EHV-901D-36X84	2.0	0%	2.0	EA	\$ 194.00	\$ 388	0.776	1.55	\$ 55.00	\$ 85	\$ 473		
71		22"x22" Hurricane Rated Intake Louver, Greenheck, #EHV-901D-36X84	3.0	0%	3.0	EA	\$ 267.00	\$ 801	1.068	3.20	\$ 55.00	\$ 176	\$ 977		
72		34"x34" Hurricane Rated Intake Louver, Greenheck, #EHV-901D-36X84	4.0	0%	4.0	EA	\$ 348.00	\$ 1,392	1.392	5.57	\$ 55.00	\$ 306	\$ 1,698		
73		36"x36" Hurricane Rated Intake Louver, Greenheck, #EHV-901D-36X84	10.0	0%	10.0	EA	\$ 366.00	\$ 3,660	1.464	14.64	\$ 55.00	\$ 805	\$ 4,465		
74		30 CFM, Outside Air Intake Louver W/Filter	49.0	0%	49.0	EA	\$ 294.00	\$ 14,306	0.376	18.42	\$ 55.00	\$ 1,071	\$ 15,377		
75		36"x48" Supply Air Grille, Titus, #112RS	2.0	0%	2.0	EA	\$ 268.00	\$ 536	1.072	2.14	\$ 55.00	\$ 118	\$ 654		
76		40 CFM, Outside Air Intake Louver W/Filter	15.0	0%	15.0	EA	\$ 106.00	\$ 1,590	0.42						

Sr #	REFERENCE	DESCRIPTION	QUANTITY	WASTE	TOTAL QTY	UNIT	COST/UNIT	MATERIAL TOTAL	UNIT HOURS	TOTAL MAN/OURS	UNIT LABOR	TOTAL LABOR	TOTAL COST	REMARKS	TRADE COST
119	C-38"x38" Titus, #350FL Return Air Grille		1.0	0%	1.0	EA	\$ 338.00	\$ 338	1.352	1.352	\$ 55.00	\$ 74	\$ 412		
120	C-1400 CFM, 30"x18" Titus, #350FL Return Air Grille		2.0	0%	2.0	EA	\$ 996.00	\$ 1,992	3.984	3.984	\$ 55.00	\$ 438	\$ 2,430		
121	C-18"x12" Titus, #350FL Return Air Grille		2.0	0%	1.0	EA	\$ 185.00	\$ 185	0.740	0.74	\$ 55.00	\$ 41	\$ 226		
122	E 16"x12" Greenheck, #EHV-901D Louver		7.0	0%	7.0	EA	\$ 172.00	\$ 1,204	0.688	4.82	\$ 55.00	\$ 265	\$ 1,469		
<b>EQUIPMENTS</b>															
123	AHU-1.1, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXSQ18TAVJU, 1.5 Tons, 530 CFM, 60 Lbs.		1.0	0%	1.0	EA	\$ 1,196.00	\$ 1,196	4.784	4.78	\$ 55.00	\$ 263	\$ 1,459		
124	AHU-1.2, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXSQ36TAVJU, 3 Tons, 1130 CFM, 101 Lbs.		1.0	0%	1.0	EA	\$ 1,884.00	\$ 1,884	7.536	7.54	\$ 55.00	\$ 414	\$ 2,298		
125	AHU-1.3, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXSQ18TAVJU, 1.5 Tons, 600 CFM, 77 Lbs.		1.0	0%	1.0	EA	\$ 1,265.00	\$ 1,265	5.060	5.06	\$ 55.00	\$ 278	\$ 1,543		
126	AHU-1.4, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXTQ24PAVJU, 2 Tons, 800 CFM, 145 Lbs.		1.0	0%	1.0	EA	\$ 1,630.00	\$ 1,630	6.520	6.52	\$ 55.00	\$ 359	\$ 1,989		
127	AHU-1.5, 1.5 Tons, Split System Air Handling Unit, 620 CFM, Daikin, #AMST24BU14, 5kW, 111 Lbs.		2.0	0%	2.0	EA	\$ 1,894.00	\$ 3,788	7.576	15.15	\$ 55.00	\$ 833	\$ 4,621		
128	AHU-1.5A, 4 Tons, Split System Air Handling Unit, Daikin, #DMVT48CP140, 5KW, 160 Lbs., 1550 CFM		1.0	0%	1.0	EA	\$ 2,050.00	\$ 2,050	8.000	8.00	\$ 55.00	\$ 440	\$ 2,490		
129	AHU-1.5B, 4 Tons, Split System Air Handling Unit, Daikin, #DMVT48CP140, 5KW, 160 Lbs., 1550 CFM		1.0	0%	1.0	EA	\$ 2,050.00	\$ 2,050	8.000	8.00	\$ 55.00	\$ 440	\$ 2,490		
130	AHU-1.6A, 4 Tons, Split System Air Handling Unit, Daikin, #DMVT48CP140, 5KW, 160 Lbs., 1550 CFM		1.0	0%	1.0	EA	\$ 2,050.00	\$ 2,050	8.000	8.00	\$ 55.00	\$ 440	\$ 2,490		
131	AHU-1.6B, 4 Tons, Split System Air Handling Unit, Daikin, #DMVT48CP140, 5KW, 160 Lbs., 1550 CFM		1.0	0%	1.0	EA	\$ 2,050.00	\$ 2,050	8.000	8.00	\$ 55.00	\$ 440	\$ 2,490		
132	AHU-1.7, 1.25 Tons, Split System Air Handling Unit, Daikin, #FFQ15W2VJU, 36 Lbs., 420 CFM		1.0	0%	1.0	EA	\$ 1,465.00	\$ 1,465	5.860	5.86	\$ 55.00	\$ 322	\$ 1,787		
133	AHU-2.0, 2 Tons, Split System Air Handling Unit, 790 CFM, Daikin, #AMST24BU14, 5KW, 111 Lbs.		47.0	0%	47.0	EA	\$ 1,675.00	\$ 78,725	6.700	314.90	\$ 55.00	\$ 17,320	\$ 96,045		
134	AHU-2.1, 10 Tons, Split System Air Handling Unit, Daikin, #DAT1203A, 20 kW, 489 Lbs., 4000 CFM		1.0	0%	1.0	EA	\$ 4,896.00	\$ 4,896	19.584	19.58	\$ 55.00	\$ 1,077	\$ 5,973		
135	AHU-2.2, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXZQ9TAVJU, 1 Tons, 400 CFM, 119 Lbs.		1.0	0%	1.0	EA	\$ 966.00	\$ 966	3.864	3.86	\$ 55.00	\$ 213	\$ 1,179		
136	AHU-2.3, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXSQ18TAVJU, 1.5 Tons, 600 CFM, 119 Lbs.		1.0	0%	1.0	EA	\$ 1,120.00	\$ 1,120	4.480	4.48	\$ 55.00	\$ 246	\$ 1,366		
137	AHU-2.4, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXMQ72MVJU, 6 Tons, 2048 CFM, 302 Lbs.		1.0	0%	1.0	EA	\$ 2,536.00	\$ 2,536	10.144	10.14	\$ 55.00	\$ 558	\$ 3,094		
138	AHU-2.5, 2.5 Tons, Split System Air Handling Unit, 910 CFM, Daikin, #AMST30BU14, 5KW, 124 Lbs.		15.0	0%	15.0	EA	\$ 2,230.00	\$ 33,450	8.920	133.80	\$ 55.00	\$ 7,359	\$ 40,809		
139	AHU-3.3, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXZQ12TAVJU, 1 Tons, 353 CFM, 36.4 Lbs.		1.0	0%	1.0	EA	\$ 1,875.00	\$ 1,875	7.500	7.50	\$ 55.00	\$ 413	\$ 2,288		
140	AHU-3.4, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXZQ12TAVJU, 1 Tons, 353 CFM, 36.4 Lbs.		1.0	0%	1.0	EA	\$ 1,875.00	\$ 1,875	7.500	7.50	\$ 55.00	\$ 413	\$ 2,288		
141	AHU-3.5, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXZQ12TAVJU, 1 Tons, 353 CFM, 36.4 Lbs.		1.0	0%	1.0	EA	\$ 1,875.00	\$ 1,875	7.500	7.50	\$ 55.00	\$ 413	\$ 2,288		
142	AHU-3.6, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXZQ12TAVJU, 1 Tons, 353 CFM, 36.4 Lbs.		1.0	0%	1.0	EA	\$ 1,875.00	\$ 1,875	7.500	7.50	\$ 55.00	\$ 413	\$ 2,288		
143	AHU-3.7, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXZQ12TAVJU, 1 Tons, 353 CFM, 36.4 Lbs.		1.0	0%	1.0	EA	\$ 1,875.00	\$ 1,875	7.500	7.50	\$ 55.00	\$ 413	\$ 2,288		
144	AHU-3.8, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXZQ12TAVJU, 1 Tons, 353 CFM, 36.4 Lbs.		1.0	0%	1.0	EA	\$ 1,875.00	\$ 1,875	7.500	7.50	\$ 55.00	\$ 413	\$ 2,288		
145	AHU-3.9, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXZQ12TAVJU, 1 Tons, 353 CFM, 36.4 Lbs.		1.0	0%	1.0	EA	\$ 1,875.00	\$ 1,875	7.500	7.50	\$ 55.00	\$ 413	\$ 2,288		
146	AHU-3.10, Variable Refrigerant Volume - Air Handling Unit, Daikin, #FXZQ12TAVJU, 1 Tons, 353 CFM, 36.4 Lbs.		1.0	0%	1.0	EA	\$ 1,875.00	\$ 1,875	7.500	7.50	\$ 55.00	\$ 413	\$ 2,288		
147	CU-1.5, Split System Condensing Unit, Daikin, #DXS5EA1810, 126 Lbs.		2.0	0%	2.0	EA	\$ 1,400.00	\$ 2,800	5.600	11.20	\$ 55.00	\$ 616	\$ 3,416		
148	CU-1.5A, Split System Condensing Unit, Daikin, #DX7TCA481, 276 Lbs.		1.0	0%	1.0	EA	\$ 1,400.00	\$ 1,400	5.600	5.60	\$ 55.00	\$ 308	\$ 1,708		
149	CU-1.5B, Split System Condensing Unit, Daikin, #DX7TCA481, 276 Lbs.		1.0	0%	1.0	EA	\$ 1,400.00	\$ 1,400	5.600	5.60	\$ 55.00	\$ 308	\$ 1,708		
150	CU-1.6A, Split System Condensing Unit, Daikin, #DX7TCA481, 276 Lbs.		1.0	0%	1.0	EA	\$ 1,400.00	\$ 1,400	5.600	5.60	\$ 55.00	\$ 308	\$ 1,708		
151	CU-1.6B, Split System Condensing Unit, Daikin, #DX7TCA481, 276 Lbs.		1.0	0%	1.0	EA	\$ 1,400.00	\$ 1,400	5.600	5.60	\$ 55.00	\$ 308	\$ 1,708		
152	CU-1.7, Split System Condensing Unit, Daikin, #RX15WVMJU, 97 Lbs.		1.0	0%	1.0	EA	\$ 1,400.00	\$ 1,400	5.600	5.60	\$ 55.00	\$ 308	\$ 1,708		
153	CU-2.0, Split System Condensing Unit, Daikin, #DXS5EA2410, 151 Lbs.		48.0	0%	48.0	EA	\$ 1,400.00	\$ 67,200	5.600	268.80	\$ 55.00	\$ 14,784	\$ 81,984		
154	CU-2.1, 10 Tons, Split System Condensing Unit, Daikin, #DX11TA1203A, 345 Lbs.		1.0	0%	1.0	EA	\$ 4,800.00	\$ 4,800	19.200	19.20	\$ 55.00	\$ 1,056	\$ 5,856		
155	CU-2.5, Split System Condensing Unit, Daikin, #DXS5EA3010, 202 Lbs.		15.0	0%	15.0	EA	\$ 1,400.00	\$ 21,000	5.600	84.00	\$ 55.00	\$ 4,620	\$ 25,620		
156	MSS-CU-2, 3/4 Tons, Mini Split System Condensing Unit, Daikin, #RX09WVMJU, 55 Lbs.		1.0	0%	1.0	EA	\$ 896.00	\$ 896	6.000	6.00	\$ 55.00	\$ 330	\$ 1,226		
157	MSS-CU-1, 2 Tons, Mini Split System Condensing Unit, Daikin, #RK24BXVJU, 108 Lbs., 713 CFM		1.0	0%	1.0	EA	\$ 1,475.00	\$ 1,475	5.900	5.90	\$ 55.00	\$ 325	\$ 1,800		
158	MSS-FCU-1, 2 Tons, Mini Split System Fan Coil Unit, Daikin, #FTK248XVJU, 27 Lbs., 713 CFM		1.0	0%	1.0	EA	\$ 1,475.00	\$ 1,475	5.900	5.90	\$ 55.00	\$ 325	\$ 1,800		
159	MSS-FCU-2, 3/4 Tons, Mini Split System Fan Coil Unit, Daikin, #FTXR09WVJU, 18 Lbs., 417 CFM		1.0	0%	1.0	EA	\$ 836.00	\$ 836	3.344	3.34	\$ 55.00	\$ 184	\$ 1,022		
160	Recirculated Hood		64.0	0%	64.0	EA	\$ 905.00	\$ 57,920	3.620	231.68	\$ 55.00	\$ 12,742	\$ 70,660		
161	RTU-1, 100% Outside Air RTU Unit, Daikin, #DPS012A, 2257 Lbs., 1530 CFM, 2.3 HP, 18 kW		1.0	0%	1.0	EA	\$ 2,866.00	\$ 2,866	11.464	11.46	\$ 55.00	\$ 631	\$ 3,497		
162	RTU-2, 100% Outside Air RTU Unit, Daikin, #DPS012A, 2257 Lbs., 1530 CFM, 2.3 HP, 18 kW		1.0	0%	1.0	EA	\$ 2,866.00	\$ 2,866	11.464	11.46	\$ 55.00	\$ 631	\$ 3,497		
163	EF-1, Exhaust Fan, Panasonic, #FV-0511VRS2, 11.9 Lbs., 110 CFM		3.0	0%	3.0	EA	\$ 194.00	\$ 582	0.776	2.33	\$ 55.00	\$ 128	\$ 710		
164	EF-1, Exhaust Fan, Panasonic, #FV-0511VRS2, 11.9 Lbs., 70 CFM		82.0	0%	82.0	EA	\$ 136.00	\$ 11,152	0.544	44.61	\$ 55.00	\$ 2,453	\$ 13,605		
165	EF-4, Exhaust Fan, #SQ-95-VG, 350 CFM, 1724 RPM, 47 Lbs.		6.0	0%	6.0	EA	\$ 384.00	\$ 2,304	1.536	9.22	\$ 55.00	\$ 507	\$ 2,811		
166	SE-EF-1, Corridor Exhaust Fan, #Cube-180HP, 2800 CFM, 1396 RPM, 1.5 HP, 116 Lbs.		1.0	0%	1.0	EA	\$ 2,275.00	\$ 2,275	9.100	9.10	\$ 55.00	\$ 501	\$ 2,776		
167	SE-SF-1, Stair Pressurization System Fan, #USP-24-B7, 8000 CFM, 1028 RPM, 5 HP, 420 Lbs.		1.0	0%	1.0	EA	\$ 6,535.00	\$ 6,535	26.140	26.14	\$ 55.00	\$ 1,438	\$ 7,973		
168	SE-SF-2, Stair Pressurization System Fan, #USP-24-B7, 8500 CFM, 1071 RPM, 5 HP, 420 Lbs.		1.0	0%	1.0	EA	\$ 69,922.00	\$ 69,922	279.688	279.69	\$ 55.00	\$ 15,383	\$ 85,305		
169	SE-SF-4, Corridor Apartment Pressurization System Fan, #USF-18, 2240 CFM, 1228 RPM, 1.5 HP, 283 Lbs.		1.0	0%	1.0	EA	\$ 1,875.00	\$ 1,875	7.500	7.50	\$ 55.00	\$ 413	\$ 2,288		
170	SE-SF-5, Corridor Apartment Pressurization System Fan, #USF-18, 2240 CFM, 1228 RPM, 1.5 HP, 283 Lbs.		1.0	0%	1.0	EA	\$ 1,875.00	\$ 1,875	7.500	7.50	\$ 55.00	\$ 413	\$ 2,288		
171	VEF-1, Ventilation Exhaust Fan, Greenheck, #BSQ-240, 6000 CFM, 973 RPM, 3 HP, 265 Lbs.		4.0	0%	4.0	EA	\$ 5,226.00	\$ 20,904	20.904	83.62	\$ 55.00	\$ 4,599	\$ 25,503		
172	VEF-2, Ventilation Exhaust Fan, Greenheck, #BSQ-300, 12000 CFM, 847 RPM, 7.5 HP, 571 Lbs.		2.0	0%	2.0	EA	\$ 8,941.00	\$ 17,882	35.764	71.53	\$ 55.00	\$ 3,934	\$ 21,816		
173	VMF-1, Air Movement Fan, #GJK-41-160-0623, 6010 CFM, 3500 RPM, 3 HP, 170 Lbs.		1.0	0%	1.0	EA	\$ 5,536.00	\$ 5,536	22.144	22.14	\$ 55.00	\$ 1,218	\$ 6,754		
174	VMF-2, Air Movement Fan, #GJK-31-160-0634, 2640 CFM, 3500 RPM, 1.5 HP, 143 Lbs.		1.0	0%	1.0	EA	\$ 2,496.00	\$ 2,496	9.984	9.98	\$ 55.00	\$ 549	\$ 3,045		
175	VMF-3, Air Movement Fan, #GJK-36-160-0627, 4070 CFM, 3500 RPM, 2 HP, 152 Lbs.		6.0	0%	6.0	EA	\$ 3,875.00	\$ 23,250	15.500	93.00	\$ 55.00	\$ 5,115	\$ 28,365		
176	VRV-CU-1, 10 Tons, Variable Refrigerant Volume - Air Cooled Condensing Unit, Daikin, #RX1Q120KATJA, 526.9 Lbs.		1.0	0%	1.0	EA	\$ 8,000.00	\$ 8,000	32.000	32.00	\$ 55.00	\$ 1,760	\$ 9,760		
177	VRV-CU-2, 10 Tons, Variable Refrigerant Volume - Air Cooled Condensing Unit, Daikin, #RX1Q120KATJA, 526.9 Lbs.		1.0	0%	1.0	EA	\$ 8,000.00	\$ 8,000	32.000	32.00	\$ 55.00	\$ 1,760	\$ 9,760		
178	VRV-CU-3, 10 Tons, Variable Refrigerant Volume - Air Cooled Condensing Unit, Daikin, #RX1Q120KATJA, 526.9 Lbs.		1.0	0%	1.0	EA	\$ 8,000.00	\$ 8,000	32.000	32.00	\$ 55.00	\$ 1,760	\$ 9,760		
179	VSF-1, Ventilation Fan, Greenheck, #BSQ-300, 12000 CFM, 847 RPM, 7.5 HP, 571 Lbs.		1.0	0%	1.0	EA	\$ 6,666.00	\$ 6,666	26.664	26.66	\$ 55.00	\$ 1,467	\$ 8,133		
<b>DAMPERS</b>															
180	28"x28" Balancing Damper		2.0	0%	2.0	EA	\$ 396.00	\$ 792	1.584	3.17	\$ 55.00	\$ 174	\$ 966		
181	4" Dia Fire & Smoke Damper		5.0	0%	5.0	EA	\$ 114.00	\$ 570	0.456	2.28	\$ 55.00	\$ 125	\$ 695		
1															

